DRAFT
Infrastructure Plan

Potrero Power Station
SAN FRANCISCO, CALIFORNIA

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CARLSON, BARBEE & GIBSON, Inc.
CIVIL ENGINEERS • SURVEYORS • PLANNERS

2633 CAMINO RAMON, SUITE 350 • SAN RAMON, CALIFORNIA 94583 • (925) 866-0322 • www.cbandg.com
SAN RAMON • SACRAMENTO

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These appendices are for reference only and are not approved as part of the Infrastructure Plan approval. Please find the Appendices available for review and download at:

https://www.dropbox.com/sh/ufipjvvkzpnxicn/AADRwXbwhtIDLnT-tuHC8NeJa?dl=0

LIST OF PREPARERS

Sustainable Infrastructure – Atelier Ten

Geotechnical Engineering – ENGEO, Inc.

Parks and Open Space – CMG Landscape Architecture

Urban Planning – Perkins and Will

Shoreline / Marine Engineering – Simpson, Gumpertz & Heger

Environmental Remediation – Geosyntec Consultants

Demolition – TRC Solutions

Civil Engineering – Carlson, Barbee & Gibson, Inc.

1 INTRODUCTION

1.1 Purpose

The Infrastructure Plan ("Plan") describes the required infrastructure improvements to be constructed to support the Potrero Power Station Project ("Project"). The Plan outlines the infrastructure related elements of the Project's sustainability, environmental remediation, demolition, corrective geotechnical measures, site grading, street and multi–modal transportation improvements, open space and park improvements, potable water system, auxiliary water system, non-potable water system, combined sewer system, separated sanitary sewer system, separated storm drain system, stormwater management controls, and dry utility system. The Plan also identifies the responsible parties for the design, construction and operation of the infrastructure.

1.2 Site Location and Areas

The Project area is approximately 29 acres located along San Francisco's Central Waterfront. The Project site is generally bound by 22nd Street to the north, the San Francisco Bay to the east, 23rd Street to the south and Illinois Street to the west. The Project location is depicted on Figure 1.0.

The Project area is comprised of the following properties which are depicted in Figure 1.1:

- ***Power Station Sub-Area*** – approximately 21.0 acres, consisting of Assessor's Block 4175/Lot 002 and Lot 017, and Block 4232/Lot 001 and Lot 006; currently owned by the project sponsor. This sub-area includes a large portion of the site of the former power station formerly owned and operated by the Pacific Gas & Electric Company ("PG&E") and by NRG Potrero LLC and their predecessors.

- ***PG&E Sub-Area*** – approximately 4.8 acres, consisting of a portion of Assessor's Block 4175/Lot 018 and owned by PG&E, located in the northwest corner of the Project Site, and also a portion of the site of the former power station.

- ***Port Sub-Area*** – approximately 2.4 acres owned by the City and County of San Francisco ("the City") through the Port of San Francisco ("Port"), consisting of three noncontiguous areas. The largest area is 1.4 acres located between the Power Station sub-area and the Bay, and also includes the area of the proposed recreational dock; the second largest is 1 acre, located along 23rd Street between the Power Station sub-area and Illinois Street; the smallest piece is less than one tenth of an acre, located on the northeast corner of the site next to the Bay.

- ***Southern Sub-Area*** – approximately 0.2 acres consisting of a portion of Assessor's Block 4232/Lot 010 and owned by Harrigan Weidenmuller Company, located south of the Power Station sub-area along 23rd Street.

- ***City Sub-Area*** – the City owns a triangular-shaped area and a strip of land along the and the southern side of 23rd Street between the Power Station sub-area and Illinois Street approximately 0.35 acres.

The redevelopment of PG&E sub-area is subject to PG&E's long-range facilities planning. Portions of the sub-area may or may not ultimately be redeveloped. This Plan assumes the redevelopment of this entire sub-area such that the infrastructure could support the full development program contemplated.

1.3 Proposed Land Uses

The Project includes the redevelopment of the project site into a mixed-use development including residential, commercial, hotel, community facility, PDR, retail and other active uses, and parking. The Project will also include public access areas and open spaces as well as a grid of public streets and private alleys.

Overall, the proposed Project will construct up to approximately 5.4 million gross square feet (gsf), of uses, including between approximately 2.4 and 3.0 million gsf of residential uses (about 2,400-3,000 dwelling units), between approximately 1.2 and 1.9 million gsf of commercial uses (office, R&D/life science, retail, hotel, and PDR), approximately 965,000 gsf of parking, approximately 50,000 gsf of community facilities, and approximately 25,000 gsf of entertainment/assembly uses. Most new buildings will range in height from 65-180 feet, with one building at 240 feet. Approximately 7 acres will be devoted to publicly accessible open space. The proposed range of development programs is outlined in Table 1.1.

Table 1.1: Proposed Development Program Scenarios

Proposed Building Use	Proposed Project Program	Maximum Residential Development Program	Maximum Commercial Development Program	Project Variant Program (Preferred Project)	Project Variant Program (Max Residential)
Residential	2,682 units / 2,682,427 sf	3,014 units / 3,014,376 sf	2,441 units / 2,441,667 sf	2,601 units / 2,522,970 sf	2,748 units / 2,669,778 sf
Commercial (Hotel)	241,574 sf	0 sf	241,574 sf	241,574 sf	0 sf
Commercial (Office)	597,723 sf	421,952 sf	814,240 sf	814,240 sf	814,240 sf
Commercial (Research and Development)	645,738 sf	645,738 sf	645,738 sf	645,738 sf	645,738 sf
Commercial (Retail)	107,439 sf	107,439 sf	107,439 sf	99,464 sf	99,464 sf
Commercial (PDR)	45,040 sf	45,040 sf	45,040 sf	35,000 sf	35,000 sf
Community Facilities	100,938 sf	100,938 sf	100,938 sf	50,000 sf	50,000 sf
Assembly / Entertainment	25,000 sf	25,000 sf	25,000 sf	25,000 sf	25,000 sf
Parking	921,981 sf	931,614 sf	902,856 sf	965,458 sf	992,785 sf
Publicly Accessible Open Space	6.2 acres	6.2 acres	6.2 acres	6.9 acres	7.15 acres

The land use program may be adjusted in the future provided that it remains within the limits analyzed under the Project EIR. The Project utility demands and infrastructure requirements have been evaluated based on the development program that results in the highest utility demand – the Maximum Residential development program. Accordingly, future adjustments are not anticipated to significantly change the overall Project utility demands or general infrastructure requirements outlined in this Plan.

1.4 Infrastructure Plan Overview

The Infrastructure Plan defines the required infrastructure to be provided by the Developer to support the development of the Project. The Plan includes the required infrastructure within the Project site and off-site within the vicinity of the Project site. The obligations for design, construction, operation and acceptance of the required infrastructure are described in the Plan.

1.5 Companion Document (D4D)

The design of the Project is guided by the Design for Development ("D4D") and Infrastructure Plan that together make up the Master Plan documents. The D4D sets the vision, standards and guiding principles for the redevelopment of the site as an urban, mixed-use, waterfront neighborhood. It contains the controls relating to the design of streets, open spaces and buildings. It also outlines sustainability features and identifies transportation strategies to encourage walking, biking and transit use. Specifically, Section 3 – Open Space and Section 4 – Streets of the D4D are carefully coordinated with the infrastructure systems described in this Plan.

1.6 Master Utility Plans

Master Utility Plans ("MUP") will be prepared based upon this Infrastructure Plan. The MUPs will provide further details of the site grading and utility systems, including utility modeling. The MUPs will be processed with the SFPUC prior to other SFPUC required submittals including the Basis of Design or first Improvement Plan approvals (see Section 1.10), whichever is first. The Basis of Design is a report that outlines project requirements, design criteria, necessary design exceptions and presents preliminary drawings for each utility system.

1.7 Property Dedication and Easements

The proposed public infrastructure described in the Plan will be constructed within public right-of-way or dedicated public easement areas. Easement areas within privately owned lands associated with utilities will provide for access and maintenance of infrastructure facilities. Easement areas within privately owned lands associated with the private alleys and open spaces will provide for emergency and public access within these corridors. The establishment of proposed parcels, rights-of-ways, easements, street vacations, dedication and acceptance of streets and other infrastructure will occur through the subdivision map process in accordance with the San Francisco Subdivision Code and San Francisco Subdivision Regulations.

The existing ownership of 23rd Street within the Project varies. The western half of 23rd Street is existing public right-of-way. The eastern half is a private street encumbered with access easements in favor of the properties to the south. Except for the addition of curbs to direct stormwater, the street design maintains the existing configuration of loading docks on the south side of the street. Pedestrians are directed to the sidewalk on the north side of the street, across from loading activities. The street is intended to be constructed to public street standards and is proposed to be a public street with Department of Public Works approval.

If the eastern half of 23rd Street remains as a private street, some of the public utility systems would be re-routed to not occupy this private street. See Section 18 providing a description of this scenario and the adjustments to the utility system configurations. See Table 8.1 outlining the proposed street widths and components for the various segments of 23rd Street.

Subject to approval, public utilities within easements may be allowed within the Project as necessary to provide infrastructure and services to the Project. These public utilities within easements on private property will be reviewed by the SFPUC to confirm full access for maintenance and repair of the utility facilities, including provision of minimum H-20 loading for maintenance access roads. The utilities will be installed in accordance with applicable City regulations for public acquisition and acceptance within dedicated public service easement areas. The proposed easements are depicted on Figure 1.2.

A tentative map will be prepared for the Project. Subsequently, final maps will be submitted depicting the public rights-of-ways prior to permits for each Phase of infrastructure. Final maps for each parcel, or group of adjacent parcels, will be submitted for each development phase.

1.8 Project Datum

The Infrastructure Plan is based upon the San Francisco Vertical Datum 13 ("SFVD13"). The SFVD13 Datum is equivalent to the North American Vertical Datum 1988 ("NAVD 88").

1.9 Applicability of Codes and Infrastructure Standards

The Infrastructure Plan may be modified in the future to the extent that future modifications are in accordance with the current City of San Francisco Subdivision Regulations – Appendix B and are accepted by the City.

1.10 Project Phasing

The Project is anticipated to be implemented in multiple Phases. See Figure 1.3 depicting the anticipated Phases of infrastructure and development. Each Phase will include Development Parcel(s) and associated Infrastructure (Phased Infrastructure) to facilitate the incremental build-out of the Project. Phased Infrastructure will be defined in the Phase Applications and associated Improvement Plans and Public Improvement Agreements for each Phase to be approved by the City prior to filing final maps for the associated Development Parcel(s).

Phased Infrastructure must be designed and constructed to create complete systems within each Phase. Additionally, demolition and construction of each phase must ensure service can be continuously provided to any existing customers. There are components of the Phased Infrastructure, as described in the Infrastructure Plan, such as abatement, demolition, environmental management, grading, geotechnical improvements and utility connections that may be required or desired outside the Phase in which it is designated. The Phased Infrastructure may include deferring sidewalk and street planting zones until the building construction on adjacent Development Parcel(s) is completed. Deferred infrastructure will require written request from the Developer and approval from the Director of Public Works. The proposed improvements will not be accepted by the City prior to deferred improvements being completed.

The Improvement Plans will depict the proposed infrastructure system configurations to be constructed with each Phase. The Improvement Plans will identify existing and proposed infrastructure, temporary and permanent connections, and demonstrate how service will be preserved to any existing adjacent occupied areas.

Construction of each proposed Development Parcel and associated Phased Infrastructure may impact site accessibility. During construction of each Development Parcel and associated Phased Infrastructure, interim access shall be provided and maintained for active utility access and emergency vehicles, subject to San Francisco Fire Department ("SFFD") requirements, as necessary. Within active streets to remain open, pedestrian access shall be maintained on at least one side where adjacent to an active construction area.

The key components of the Phased Infrastructure are outlined as follows:

Phase 0

- Demolition and Abatement of existing structures, private utilities and surface improvements, for the entire Project site except the PG&E Sub-Area.
- Site Grading establishing the street subgrade elevations and Development Parcel rough pad elevations (excluding below grade garage excavations), for the entire Project site except the PG&E Sub-Area.
- Demolition, abatement and site grading for the Tank Farm Area will be completed at the time environmental remediation of this area is complete.
- Demolition, abatement and site grading for the PG&E Sub-Area will be completed at the time the land becomes available.

Phase 1

- 23rd Street from Illinois Street to Waterfront Open Space.
- Humboldt Street from Maryland Street to the Waterfront Open Space.
- Maryland Street from 23rd Street to Humboldt Street.
- Delaware Street from 23rd Street to Humboldt Street.
- Traffic signal at 23rd Street and Illinois Street.
- Low Pressure Water System within Phase 1 public streets with points of connection to existing pipelines in 23rd Street at Maryland Street, and 23rd Street at Delaware Street.
- Low Pressure Water System second point of connection will be provided by an interim connection through Humboldt Street and/or Georgia Street connecting to the existing pipeline in either Illinois Street or 22nd Street, respectively. The selected corridor for this interim connection is subject to coordination with PG&E and review by the City.
- An access road capable of supporting active utility access and emergency vehicles will be provided along the interim low-pressure water line to Illinois Street or 22nd Street providing a second point of emergency access to Phase 1.
- Non-Potable Water System within Phase 1 public streets with potential Local District or Centralized Wastewater Treatment Plant on Block 8 supplying non-potable water to the system.
- AWSS connecting to existing pipeline at 3rd Street and 23rd Street intersection, extending in 23rd Street to Maryland Street and within Maryland Street from 23rd Street to Humboldt Street.
- Separated sanitary sewer system within Phase 1 public streets including the sanitary sewer pump station located near Delaware Street.
- Separated storm drain system within Phase 1 public streets including stormwater management controls and a stormwater outfall to the Bay.

Phase 1 *(Continued)*

- Dry Utility System within Phase 1 public streets.
- Power Station Park between Maryland Street and Delaware Street.
- Waterfront Park except for the area between Block 4 and Bay Trail.
- Grading within each Phase 1 Development Parcel for below grade parking, if necessary, and final building and / or open space elevations.

Phase 2

- Humboldt Street from Louisiana Street to Maryland Street.
- Low Pressure Water System within Humboldt Street.
- Non-Potable Water System within Humboldt Street with potential Local District Wastewater Treatment Plant on Block 7 supplying non-potable water to the Non-Potable Water system.
- Separated sanitary sewer system within Humboldt Street.
- Separated storm drain system within Humboldt Street including stormwater management controls.
- Dry Utility System within Humboldt Street.
- Power Station Park West between Maryland Street and Louisiana Paseo.
- Grading within each Development Parcel for below grade parking, if necessary, and final building and / or open space elevations.

Phase 3

- Maryland Street from Humboldt Street to Craig Lane.
- Delaware Street from Humboldt Street to Craig Lane.
- Craig Lane from Maryland Street to Delaware Street.
- Low Pressure Water System within Maryland Street.
- AWSS within Maryland Street.
- Separated sanitary sewer system within Maryland Street.
- Separated storm drain system within Maryland Street including stormwater management controls.
- Dry Utility System within Maryland Street.
- Waterfront Park, between Block 4 and the Bay.
- Grading within each Development Parcel for below grade parking, if necessary, and final building and / or open space elevations.

Phase 4

- Georgia Lane from 23rd Street to Humboldt Street.
- Humboldt Street from Louisiana Street to Georgia Street
- Low Pressure Water System within Phase 4 public streets.

Phase 4 *(Continued)*

- Non-Potable Water System within Phase 4 public streets with potential Local District Wastewater Treatment Plant on Block 5 supplying non-potable water to the Non-Potable Water system.
- Combined Sewer System within Georgia Lane.
- Stormwater management controls within Phase 4 public streets. Dry Utility System within Phase 4 public streets.
- Louisiana Paseo
- Grading within each Development Parcel for below grade parking, if necessary, and final building and / or open space elevations.

Phase 5

- Louisiana Street from Humboldt Street to Craig Lane.
- Craig Lane from Maryland Street to Georgia Street.
- Georgia Street from Humboldt Street to 22nd Street.
- Low Pressure Water System within Phase 5 public streets with permanent point of connections to the existing pipelines in 22nd Street.
- Combined Sewer System within Phase 5 public street.
- Stormwater management controls within Phase 5 public streets.
- Dry Utility System within Phase 5 public streets.
- Potential Local District Wastewater Treatment Plants on Block 1 supplying non-potable water to the Non-Potable Water system.
- Grading within each Development Parcel for below grade parking, if necessary, and final building and / or open space elevations.

Phase 6

- Humboldt Street from Georgia Street to Illinois Street.
- Traffic signal at Humboldt Street and Illinois Street.
- Low Pressure Water System within Phase 6 public streets with permanent point of connections to the existing pipelines in Illinois Street.
- Non-Potable Water System within Phase 6 public streets with potential Local District Wastewater Treatment Plant on Block 13 supplying non-potable water to the system.
- Combined Sewer System within Phase 6 public street.
- Stormwater management controls within Phase 6 public streets.
- Dry Utility System within Phase 6 public streets.
- Illinois Plaza
- Grading within each Development Parcel for below grade parking and final building and / or open space elevations.

1.11 Acceptance of Phased Infrastructure

Any acceptance of street and other infrastructure improvements will occur according to the San Francisco Subdivision Code and San Francisco Subdivision Regulations, unless otherwise approved as an exception by the City. The City shall accept full, complete, and functional streets and infrastructure as designed in conformance with the Subdivision Regulations and utility standards, and constructed in accordance with the project plans and specifications, subject to any design modifications or exceptions that may be authorized by the Public Works Director with consent of affected City department, as detailed under the San Francisco Subdivision Code and regulations.

Utilities and other infrastructure improvements to be offered by the Developer for City acceptance cannot rely on utilities constructed to a temporary standard. Any offer of utilities that rely on utilities constructed to a non-permanent standard will require authorization by the Public Works Director with the consent of the affected City department. This is anticipated for the Low-Pressure Water System point of connection through the PG&E Sub-Area with Phase 1. This is necessary to provide a reliable potable and fire water system for the first phase and until a permanent connection is made in later phases.

With the consent of the City, select portions of Phased Infrastructure to be offered by the Developer for City acceptance may rely upon existing infrastructure that is required to be replaced in a subsequent Phase provided the existing infrastructure adequately serves the present Phase demands and subject to written approval of applicable City department(s), consistent with San Francisco Subdivision Regulations. Upon any replacement of existing infrastructure beyond the current phase limits, the newly accepted infrastructure will require monitoring and re-inspection at the Developer's expense, as described in Section 4.3, Phases of Demolition and Abatement.
Phased Infrastructure may include improvements within the Project, but outside of the current Phase boundary and within a subsequent Phase area. The City will not accept the Phased Infrastructure that is constructed outside of the phase boundary until that subsequent phase of infrastructure is completed.

1.12 Operation and Maintenance

Under formal acceptance of public infrastructure installed by the Developer, the City will be responsible for maintenance of the infrastructure installed by the Developer, except as otherwise agreed to in writing by the Developer and the City. A maintenance agreement, as required by the Public Improvement Agreement (PIA), will be prepared in conjunction with the first phase of Improvement Plans and may be subject to a Major Encroachment Permit ("MEP").

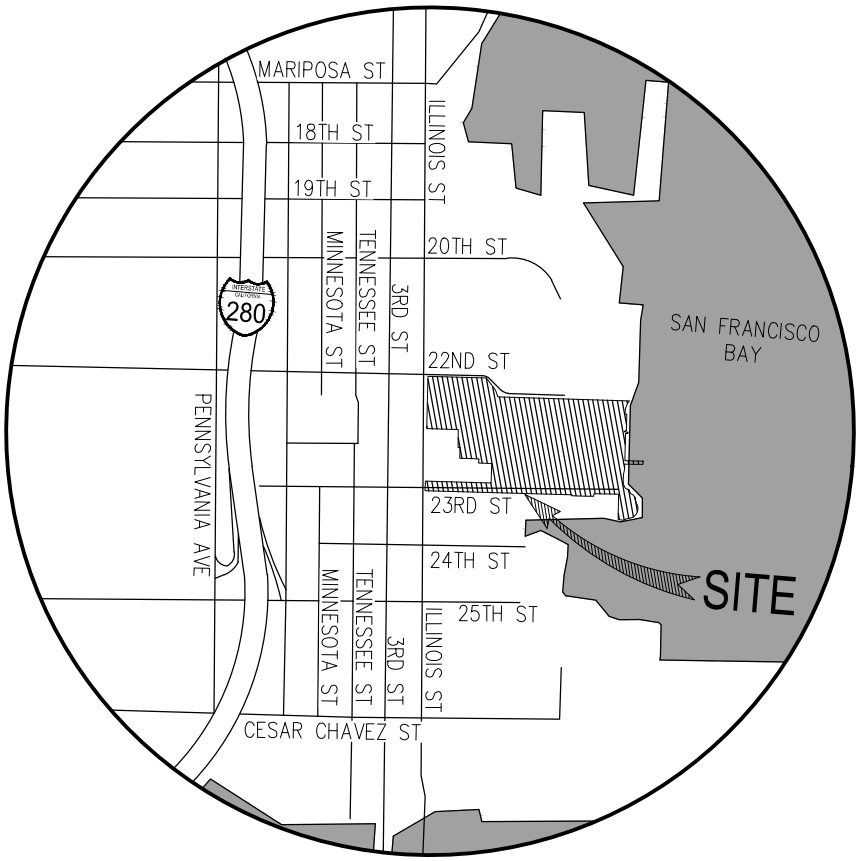


Figure 1.0 Site Location

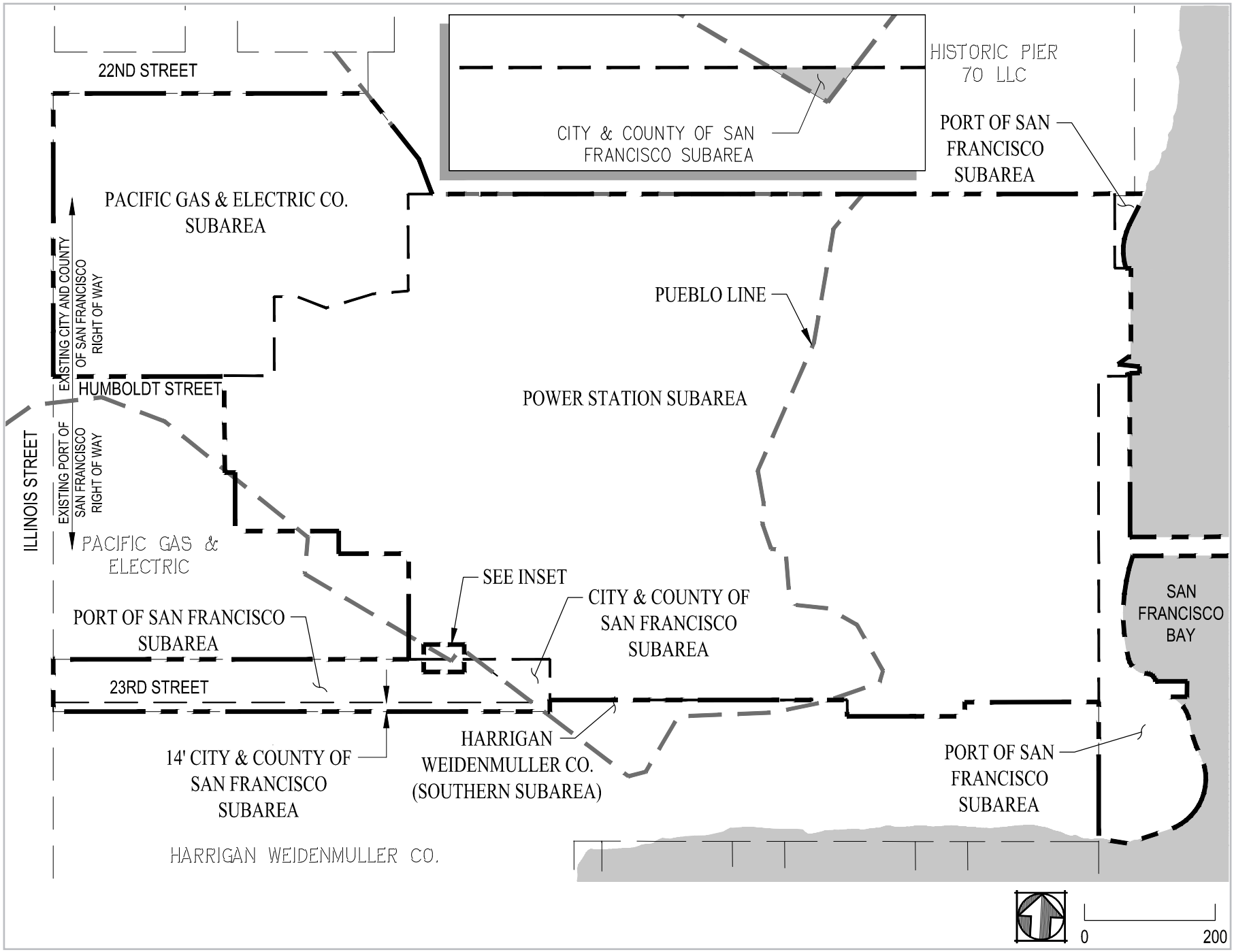


Figure 1.1 Project Areas

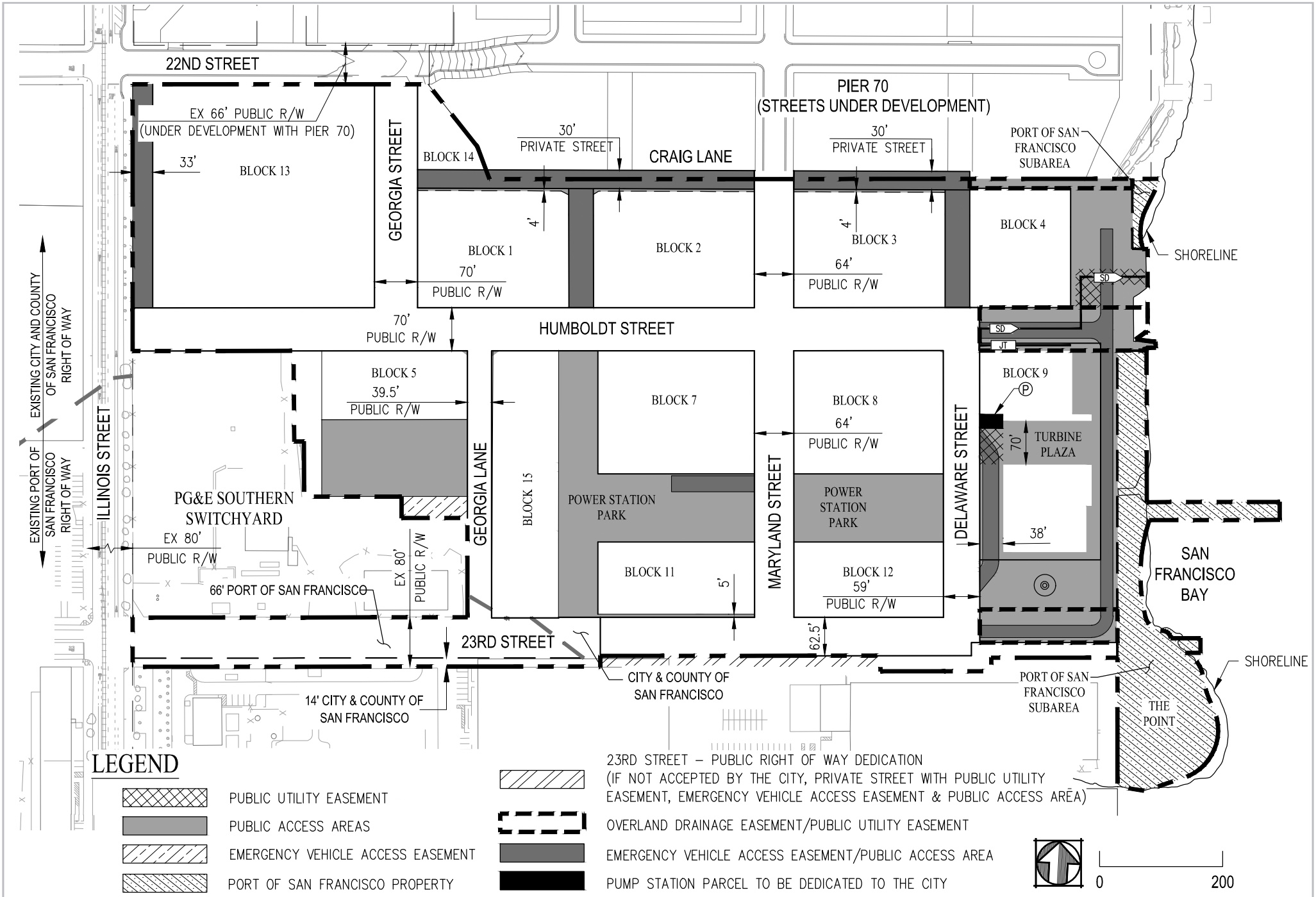


Figure 1.2 Property Dedications and Easements

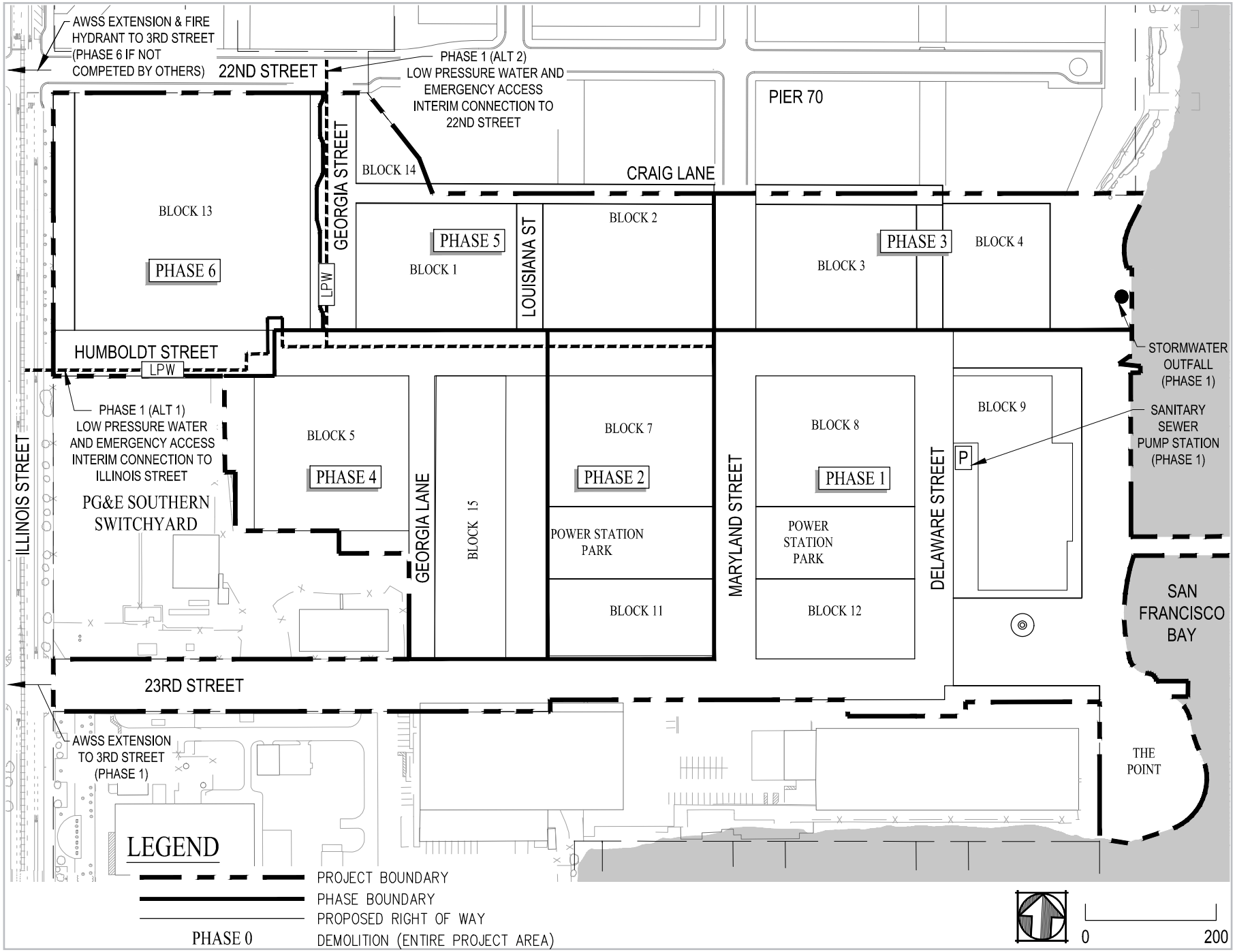


Figure 1.3 Project Phasing

2 SUSTAINABILITY

2.1 Sustainable and Resilient Infrastructure

The Project will include a variety of sustainable and resilient design elements integrated into the infrastructure design. The infrastructure systems will be designed to support Site and Bay ecosystems, promoting the return of biodiversity to the Project Area. A summary of the key sustainable infrastructure design strategies are as follows:

Section 3 – Environmental Management

- Environmental remediation to satisfy all applicable statutory and regulatory requirements for the proposed land uses.

Section 4 – Site Demolition

- Demolition and abatement of identified unusable structures.
- Reuse of select historic structures to current seismic, structural, and code requirements.
- Demolition or abandonment of sub-standard utility infrastructure. To the extent feasible the un-used existing utilities within future public rights-of-way will be removed.
- Recycle materials on-site where feasible.
- Target minimum of 65% diversion from landfill of construction and demolition debris that is not contaminated.

Section 5 – Sea Level Rise and Adaptive Management Strategy

- Streets and open spaces designed to provide built-in resilience for long term protection against a 100-year storm surge plus sea level rise up to 6.9 feet. Buildings will also have an additional 1-foot of freeboard in accordance with the San Francisco Floodplain Management Ordinance.
- Financing mechanism established to fund continuing monitoring and future improvements at the Project site to adapt to amounts of sea level rise beyond 6.9 feet.
- See Section 5 for discussion of the Project's sea level rise protection strategy.

Section 6 – Geotechnical Conditions

- Geotechnical improvements to improve seismic and shoreline stability.

Section 7 – Site Grading and Drainage

- Grading and drainage designs to provide built-in long-term protection and future adaptability to address sea level rise.
- Erosion and sedimentation control measures during construction will be implemented consistent with an approved Storm Water Pollution Prevention Plan for the site during grading and construction to protect and control run-off to the Bay.

Section 8 – Street and Transportation

- New infrastructure and facilities to improve circulation and safely support all transportation modes such as walking, bicycles, buses, and shuttles to regional transit hubs.
- Establish an accessible neighborhood that prioritizes walking, biking and transit.
- New public bicycle and pedestrian paths to provide connection to open spaces to support safety of bicycles and pedestrians.
- Selection of Street Trees that support Site and Bay ecosystems.

Section 9 – Open Space and Parks

- New parks and recreational facilities that will complement the existing neighborhood and citywide open space network.
- Selection of plants and trees that support Site and Bay ecosystems and habitats.

Section 11 – Low Pressure Water System

- New reliable potable water system.
- Use of water conservation fixtures and non-potable water use to reduce potable water demands.

Section 12 – Non-Potable Water System

- Use of graywater, and potentially blackwater and rainwater, to meet non-potable water demands including irrigation, flushing and cooling towers.
- Wastewater collection and treatment plants, either multiple local district plants or one centralized plant, will treat wastewater generated within certain development blocks to comply with Article 12C of the San Francisco Health Code and deliver to Development Parcels through a new private non-potable water distribution system located either within the public right-of-way or through privately-owned parcels. (Note that an

encroachment permit from the Department of Public Works would be required under this option and an exception from the Recycled Water Use Ordinance); or

Section 12 – Non-Potable Water System *(Continued)*

- In the event the City constructs a regional recycled water treatment facility that provides recycled water to the Project Site and surrounding areas, the proposed project may elect to connect to this system, delivering recycled water to Development Parcels through a new public recycled water distribution system within the public right-of-way. In this case, the project would not construct separate wastewater diversion, treatment and reuse systems on private parcels.
- Potential Shared District Thermal Energy Plants to recover waste heat and utilize it for heating and cooling to further reduce the Project energy demand and water demand for mechanical uses.

Section 13 – Auxiliary Water Supply System ("AWSS")

- New AWSS to improve reliability of fire suppression systems and enhance resiliency during a seismic event.

Section 14 – Separated Sanitary Sewer System

- New low flow fixtures minimizing the Project demand to the existing sanitary sewer system.
- Complete replacement of aged existing collection system of private sanitary sewer pipelines, thereby avoiding exfiltration of sanitary sewer flows to ground water.
- Site grading design to provide physical protection and delineations between the combined sewer and separated storm drain areas, and to provide additional protection from potential overflows from the combined sewer system to the Bay.

Section 15 – Storm Drain System

- New storm drain collection system designed for long term protection from flooding and adaptability for sea level rise.
- Separated storm drain pipelines will be designed to convey the stormwater flows from a 5-year / 3-hour design storm with appropriate freeboard, and the public streets will be designed to convey the stormwater flows from a 100-year / 3-hour design storm below the top of curb elevation, using a starting tail water of the FEMA Base Flood Elevation plus 24 inches of sea level rise.

Section 16 – Stormwater Management

- Eliminate the industrial discharges to Bay from the historic existing uses within the Site.
- Stormwater management controls within the western watershed included in buildings, street designs and open spaces to reduce runoff rate and volume impacting the City Combined Sewer System and without increasing system overflows.
- Stormwater management controls within the eastern watershed included in street designs, buildings and open spaces to provide water quality treatment and trash capture prior to discharge to the Bay.
- Building rooftops to include Living Roofs in accordance with the Better Roofs Ordinance.
- Selection of plantings within green infrastructure that support Site and Bay ecosystem.

Section 17 – Dry Utilities Systems

- Replace overhead electrical distribution with an underground joint trench distribution system.
- New power, gas and communication systems to serve the Project.
- Installation of photovoltaics on building rooftops in accordance with the Better Roofs Ordinance for renewable generation, of type and quantity as approved by the power provider.
- Use of energy efficient fixtures and equipment to reduce energy demands, including potential private shared thermal energy plants to recover waste heat and utilize it for heating and cooling to further reduce Project energy demand.
- The project sponsor and/or future vertical developers may elect to eliminate the use of natural gas for space heating and domestic water use, which would reduce operational greenhouse (“GHG”) emissions and limit on-site combustion.

3 REMEDIATION SUMMARY

3.1 General Site Characterization

The Potrero Power Plant had been in operation producing manufactured gas and electricity for over 100 years. The last operating unit at the Potrero Power Plant ("Site") was closed in 2011. Over the course of its operational history, various hazardous substances were released into the subsurface soil and groundwater beneath the Site. Since 1991, PG&E, the former owner, has been conducting environmental site investigations ("SI") and remediation of hazardous materials in the soil, soil vapor and groundwater under the oversight of San Francisco Bay Regional Water Quality Control Board (Water Board) and San Francisco Department of Public Health ("SFDPH").

The data collected from the SIs was evaluated with respect to applicable regulatory standards and risk-based site-specific cleanup levels to identify Constituents of Concern ("COC"). SIs and Human Health Risk Assessments ("HHRA") have evaluated the potential adverse health effects that may be associated with cumulative exposure to Site COCs. The primary COCs detected in the soil, soil vapor and groundwater include metals, total petroleum hydrocarbons ("TPH"), polycyclic aromatic hydrocarbons ("PAH"), volatile organic hydrocarbons ("VOC"), polychlorinated biphenols ("PCB") and naturally occurring asbestos ("NOA"). Reports documenting the results of previous SIs and HHRAs have been submitted to the Water Board and are available for review on their GeoTracker website (http://geotracker.waterboards.ca.gov).

3.2 Regulatory Framework and Management Approach

PG&E has delineated the Site into five operational areas for purposes of the environmental work. These include the Station A area, Unit 3 area, Northeast area, Tank Farm area, and the Offshore area. See Figure 3.1 depicting the general location of these operational areas. PG&E evaluated several options to remediate the Site to support future commercial and industrial land uses.

The Station A area was the first area to be completely investigated, risks evaluated, and a remedy put into place. The approved Station A remedy consists of the following:

- Durable Covers (defined as hardscape such as asphalt, concrete, non-moveable pavers, or a minimum of four feet of clean soil) over existing soil that meet the remedial action objective of preventing human exposure to constituents of concern in the soil beneath the Site.

- Long-term maintenance and monitoring of durable covers to ensure that covers continue to function as designed; and
- Institutional controls to minimize the potential to impact human health and the environment after installation of durable cover.

In June 2016 PG&E prepared a Risk Management Plan ("RMP") for the Station A area that provides a framework for managing residual COCs in soil in a manner that protects site users under current and future commercial and industrial land use. Land use restrictions are presented in the Covenant to Restrict Use of Property Agreement (Appendix B of the RMP).

Investigations and risk evaluations in the Unit 3 area, Northeast area, and Offshore area have been completed and are ongoing in the Tank Farm area. The remedy that is proposed for the Unit 3 area will be the same as for Station A. The remedy for the Northeast area includes in-situ soil stabilization as well as durable covers, long term monitoring and maintenance, and institutional controls similar to Station A. The remedy for the offshore area includes limited sediment dredging and monitored natural attenuation. PG&E plans for all remediation work to be completed at the Site by the year 2023.

3.3 Requirements for Future Ground-Disturbing Work

The San Francisco Health Code and the RMP require that ground-disturbing activities at the Site comply with Article 22A of the Health Code, commonly known as the Maher Ordinance. Any future construction work that involves ground disturbing activities involving more than 50 cubic yards or 1,250 square feet of soil is subject to both the Maher Ordinance and the RMP, including the Project's infrastructure obligations. The RMP describes risk management measures that include notifying the Port, Water Board, and SFDPH of planned ground-disturbing activities; controlling Site access; managing soil including stockpile management, offsite disposal, and dust control; managing storm water runoff; controlling contact with groundwater; and reestablishing the durable cover following completion of ground-disturbing activities. The RMP also outlines procedures for addressing unexpected subsurface conditions encountered during development.

3.4 Utility Corridors

The proposed utility systems will be placed in utility corridors that are comprised of the required clean backfill materials of each utility installation trench. The conditions will be such that construction and maintenance worker safety will be within the acceptable limits although certain safety precautions will be necessary in certain areas (i.e. dust masks, dust control, etc.). Soil excavated from the utility corridors for future maintenance will need to be handled in accordance with the RMP protocol.

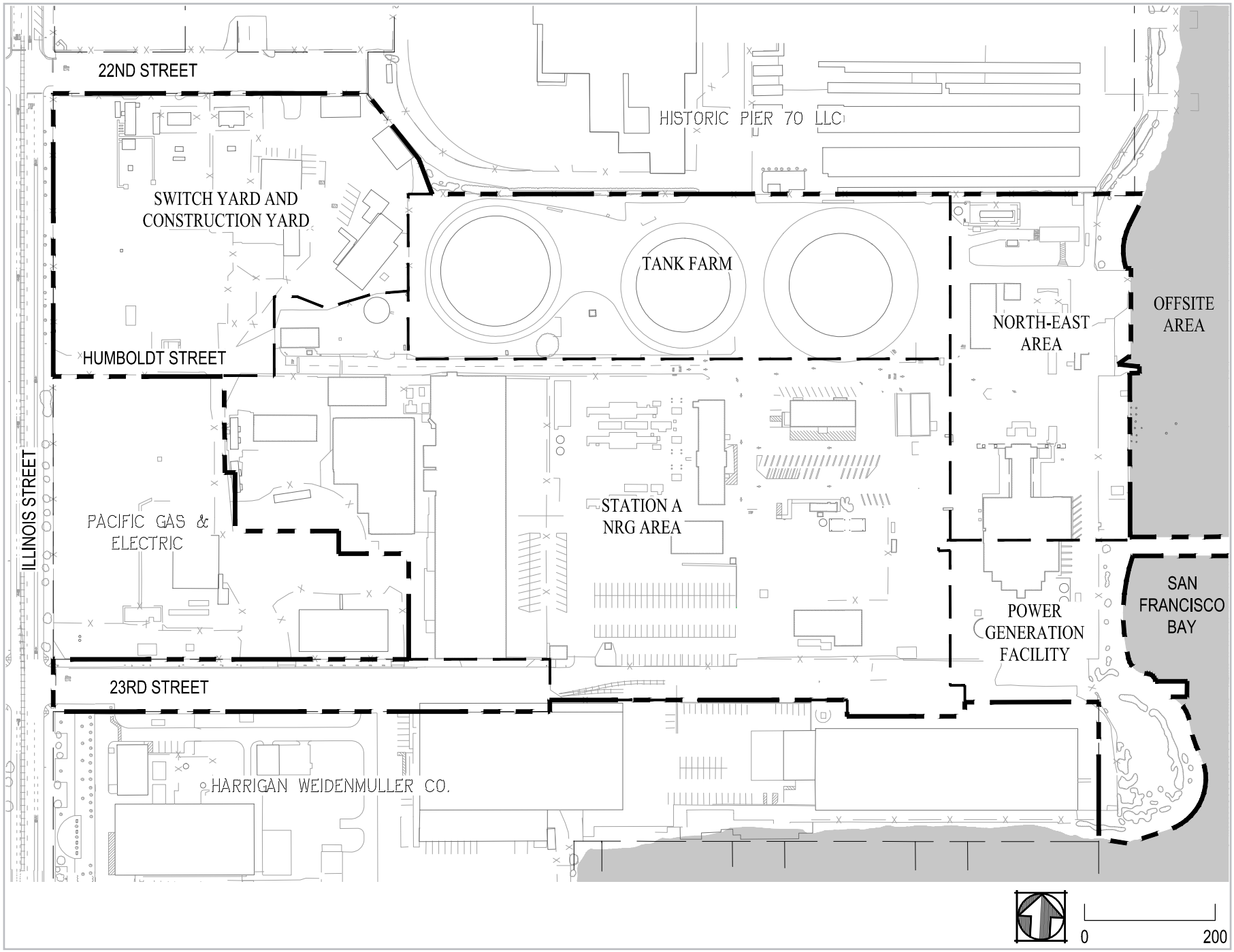


Figure 3.1 Environmental Remediation Operational Areas

4 SITE DEMOLITION

4.1 Scope of Demolition

The Developer's infrastructure responsibilities include the abatement and demolition of non-retained existing buildings and infrastructure features within the Project site. The proposed Project will demolish about 20 existing structures on the Project site, including two individually significant historic buildings in the Power Station sub-area, the Meter House, and the Compressor House – which have been identified as eligible for the California Register. The Gate House, which is a contributor to the Third Street Industrial District but not individually significant, will also be demolished as part of the proposed Project. Station A, which is also an individually significant building, may be preserved and repurposed into an office building as part of the Project. As permitted in the Design for Development (D4D) document, the new additions to the building are permitted to reach an average height of 145-feet. The building may reach a taller height, provided that appropriate sculpting compliant with controls contained in the D4D occurs.

The Unit 3 Power Block ("Unit 3") and the Stack have also been identified as contributors to the Third Street Industrial District, although are not individual resources. Unit 3 may be repurposes and converted into a hotel which will involve the removal of obsolete mechanical equipment, including the boiler. The repurposed structure will not exceed the existing height of the 143-foot concrete elevator shaft, although two additional floors will be added, creating a 10-story building. In some areas, the building envelope will increase to create a floor plate suitable for a hotel. However, under the proposed flexible land use program, a residential land use or new hotel could be developed on Block 9 instead of a hotel in the repurposed structure, in which case, Unit 3 would be demolished. In either case, the Stack will be retained and potentially repurposed as a ground floor retail space occupying approximately 1,000 square feet. If repurposed, proposed improvements to the Stack include perforations for a secondary means of egress and interior enclosures to provide a roof and any necessary structural support. Seismic retrofit or other improvements the Stack may obstruct the hollow flue. Proposed alterations of the two buildings could affect their eligibility for the California Register. See Figure 4.1 depicting the locations of Unit 3 and the Stack.

Additionally, the following existing underground utilities will also be retained as depicted on Figure 4.2.

- 23rd Street
  - Underground high voltage facilities
  - Transmission and distribution pipelines
  - Combined sewer facilities (Note this pipeline was replaced in 2019 through the City's routine pipeline replacement project. This new pipeline will be retained.)

- Humboldt Street (Western Portion)
  - Natural gas transmission line
- Illinois Street Frontage (West Edge of Block 13)
  - Natural gas transmission line
  - Underground high voltage facilities

Demolition will include the abatement (if necessary), deconstruction, removal, and disposal or reuse of existing buildings, hardscape, landscape, utilities, and temporary building structures and utilities. In specific cases, underground utilities may be abandoned in place rather than demolished, subject to City approval. The Developer will transport demolition debris off-site by a registered transporter for delivery to a registered facility that processes debris for recycling, in accordance with City regulations. Where possible, inert materials such as concrete or brick will be processed and reused onsite as fill, aggregate, or landscaping. Reuse of site demolition materials will be limited by potential contamination that would require material to be disposed of off-site.

4.2 Existing Infrastructure Demolition or Abandonment

With the exception of the Stack, feasibility for retaining other structures, such as Unit 3 and Station A, is still being determined. Unit 3 is being studied for feasibility for retention and adaptive reuse as a hotel, residential building or combination of the two uses. Station A is being studied for feasibility for retention and adaptive reuse as an office building. Prior to demolition, the buildings will be surveyed for regulated building materials and abated as necessary. Demolition debris from buildings on-site will be recycled to the greatest extent feasible at a registered off-site disposal / recycling facility, targeting a 65% diversion rate of material that is not contaminated.

Inert demolition materials such as asphalt concrete paving, concrete pads, foundations, and bricks, etc., will be demolished and recycled off-site. Reuse of recycled demolition materials as fill, aggregate, or decorative landscaping will be retained as an option, but current plans indicate that demolition materials will be recycled off-site. As part of the vegetation grubbing and clearing operation, the few trees and other plant materials located near the center of the Site will be removed and recycled as green waste.

The existing utility demolition or abandonment scope includes water, separated storm drain, combined sewer, separated sanitary sewer, gas, electric, and other utility infrastructure above and below ground. With the exception of the high voltage, natural gas, and combined sewer lines beneath 23rd Street and the natural gas transmission line along Humboldt Street and the west end of Block 13, which are to be retained, existing utility infrastructure will be abandoned in place or removed and disposed of at an authorized facility. Temporary utilities will be constructed prior to

demolition of several active utilities to maintain service to adjacent properties prior to construction of new utility infrastructure.

Temporary facilities required during abatement and demolition activities, such as temporary utility corridors and equipment and materials laydown areas will be removed from the Site as necessary prior to initiation of construction activities.

4.3 Phases of Demolition and Abatement

Demolition and abatement activities will occur within phases, particularly Phase 0 as shown in the Project Phasing Plan. All abatement and demolition of existing structures will be completed at the start of the Project, with the exception of the PG&E Sub-Area lands and potentially the Tank Farm area (subject to PG&E's schedule for remediation work in that area. While demolition of the large Phase 0 area will be performed at the outset of the Project, it will be phased in a manner that maintains access ways to adjacent properties, and utility connections necessary for other ongoing site activities. In addition, the Developer will be responsible for monitoring temporary, new, and existing utilities to ensure operation during pre- and post-demolition construction activities. This will include inspection of existing utilities to confirm new construction has not caused damage to existing utilities adjacent to demolition activities.

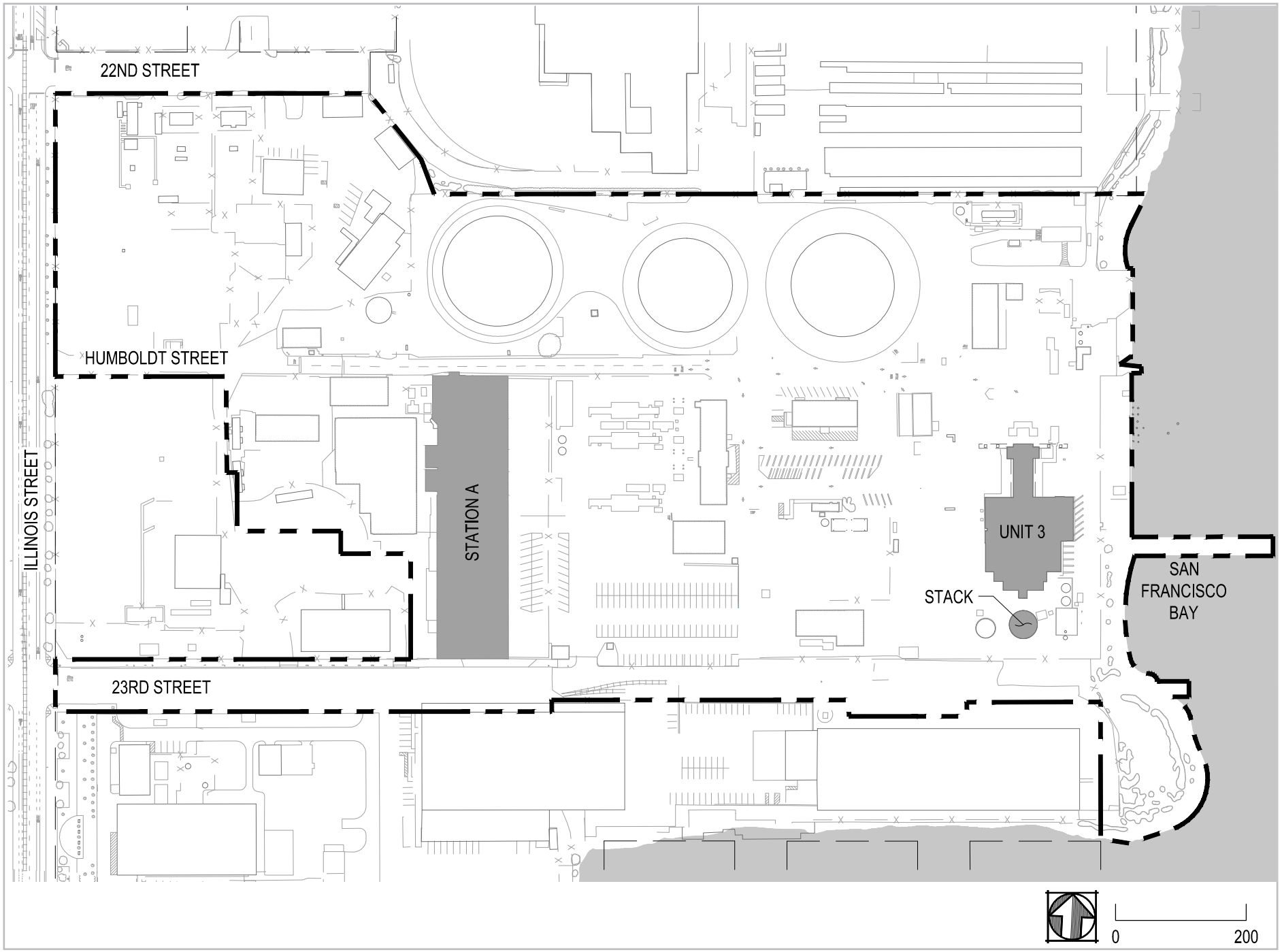


Figure 4.1 Location of Adaptively and Potentially Adaptively Reused Structures

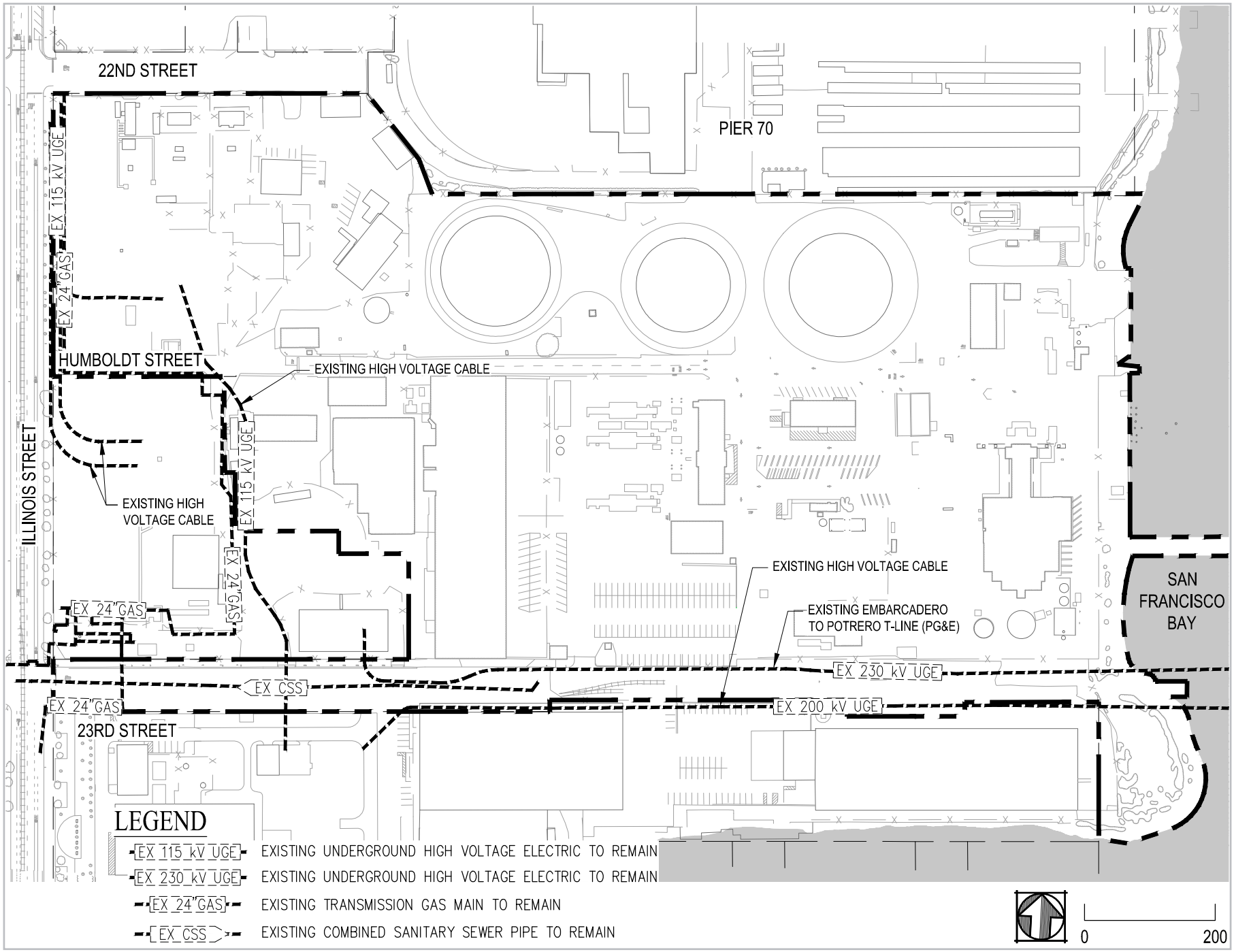


Figure 4.2 Existing Infrastructure to Remain

5 SEA LEVEL RISE AND ADAPTIVE MANAGEMENT STRATEGY

5.1 Sea Level Rise Design Parameters and Risk Assessment

The existing waterfront areas within the Project are vulnerable to coastal flooding as the sea levels rise over time. Accordingly, the Project will be constructed to provide protection from future sea level rise ("SLR").

The Project has conservatively selected to provide built-in protection from the current high-end estimate of sea level rise at the end of the century. The Project has been planned based on estimated sea level rise from the best available science on sea level rise projection rates. This includes the June 2012 National Academy of Sciences ("NAS") Sea-Level Rise for the Coasts of California, Oregon and Washington. Additionally, in March 2018, the California Ocean Protection Council published an update to its sea level rise guidance. The updated report provides the scientific foundation for a decision-making process to select which sea level rise projection is appropriate for a specific project. This approach considers many factors, including project location, lifespan of the project, degree of sea level rise exposure, risk tolerance and adaptive capacity of the project. The updated guidance provides sea level rise projected values for low risk aversion, medium-high risk aversion, and extreme risk aversion. The Council's updated report estimates the likely range of sea level rise at 2100 for low risk aversion sites to be 2.4-3.4 feet, medium-high risk aversion to be 5.7-6.9 feet and extreme risk aversion to be 10.2 feet. The areas within the project site that would be inundated, if left unprotected, at the sea level rise projected at 2070 and 2100 for medium-high risk aversion and high emissions scenarios are depicted on the enclosed Figure 5.1.

The Potrero Power Station project is considered as a medium-high risk aversion site as it is a coastal development with adaptive capacity. The Project has also determined to utilize the high emissions scenarios for planning of sea level rise protection measures. The Project is designed to be elevated to provide resiliency and protection from future sea level rise of 6.9 feet above the 100-year storm surge. The project also includes considerations for planned adaptive capacity strategies.

5.2 Sea Level Rise – Built-In Protection

The Project has been planned to provide long term protection to the public access areas and future building uses. The proposed shoreline and land side improvements are planned to be constructed at a minimum elevation of 17.5 ("SFVD13"). This provides built-in protection from the projected sea levels at 2100 for a medium-high risk aversion at the high emissions scenario of 6.9 feet above the current 100-year storm surge elevations. This also provides built-in protection from 9.9 feet of sea level rise above current King Tide. Additionally, this minimum elevation provides protection

from over 5 feet of future sea level rise above the 100-year Base Flood Elevation (BFE) coastal flood elevation, which is the estimated sea level rise projected to occur between 2080 and 2090 for a medium-high risk aversion site with the high emissions scenario. The current 100-year coastal BFE is 11-12 feet ("SFVD13") along the Project shoreline. See Section 7 for discussion of the BFEs at the Project. The minimum elevation of the proposed street and open spaces areas is 17.5 (BFE plus 5 feet) and the minimum elevation of the building ground floors is 18.5 (BFE plus 5 feet plus 1-foot freeboard).

The Stack is proposed to be preserved and Unit 3 may be preserved; both waterfront structures may potentially be adaptively reused. These existing structures and immediate surrounding areas will remain at the existing building elevation finish floor elevation of approximately 14 ("SFVD13"). These areas will be protected by the elevated shoreline improvements along with additional flood protection improvements. The improvements will include a local pump station and backflow protection integrated to the separated storm drain collection system for these areas. The pump station will ensure stormwater will be discharged from these areas to the Project stormwater outfall. The backflow prevention device will prevent backwater from extreme tidal elevations of the Bay entering the separated storm drain system and inundating these lower elevations. This localized stormwater pump and related facilities will be privately owned and maintained, not dedicated to the City. See Figure 5.2 demonstrating there are no areas of inundation within the Project at proposed conditions and 5 feet of sea level rise.

5.3 SLR Adaptive Management Plan

As there still remains variability of sea level rise projections within the scientific community, additional adaptive management measures will be integrated into the Project framework and infrastructure through an SLR Adaptive Management Plan, as described below. These measures will provide a proactive approach to planning, monitoring and implementing future adaptations to the Project to ensure resiliency from extreme sea level rise.

The Project will prepare a SLR Adaptive Management Plan that establishes a monitoring program to review SLR estimates prepared for San Francisco Bay by the National Oceanic Atmosphere Administration ("NOAA") and other State Agencies. The monitoring program will require periodic review of updated SLR guidance from Local, State and Federal regulatory agencies. The SLR Adaptive Management Plan will be prepared by and managed by the Shoreline Adaptation Community Facilities District ("SACFD"). The SACFD will also provide a funding mechanism to implement necessary future adaptive measures. The SACFD will be coordinated with City programs addressing SLR.

5.3.1 Adaptive Management Measures for Future SLR

The adaptive measures will include the following:

- Shoreline perimeter designs that provide the ability to be adapted if future sea level rise exceeds the built-in protection. This may include capacity to increase elevations along the shoreline through construction of small berms, low floodwalls or other similar measures without requiring fill within the Bay.
- Separated storm drain system designs that provide the ability to be adapted in the future if nuisance or hazard flooding becomes more frequent. This may include integrating a sea level rise pump station or other similar measures.
- The lower deck of the recreational dock is currently set at an elevation of 11.5 feet (SFVD13), which is 4 feet above King Tide. In order to accommodate SLR, the pile-supported lower deck will be designed to allow for construction of a higher deck on top of the lower deck in the future. The lower deck and piles are to be designed to carry additional weight of the future adapted higher deck and associated concrete frame.
- Create a monitoring program to periodically review SLR guidance from Local, State and Federal regulatory agencies.
- Create a reporting program to document monitoring of SLR and any recommended improvements to address increased sea levels causing nuisance and more frequent flooding.
- Create a funding mechanism for the monitoring / reporting program as well as shoreline and stormwater system adaptive improvements.

- Use of materials in areas of future inundation, such as "the Point", that will be supportive of future underwater habitat and/or address wave action.

5.3.2 Decision Making Framework

When the data from the monitoring program demonstrate that SLR in San Francisco Bay is expected to exceed the built-in protection, a range of additional improvements can be made to protect the Project from flooding. Planning, design, and review takes a significant amount of time, thus work will begin on improvements before those SLR effects are problematic. In coordination with the City, the SACFD will be responsible for determination of the improvements to be made at the time they are required, which will depend on a variety of factors, including, but not limited to:

- Consultation with the SFPUC and other local agencies;
- New Local, State or Federal requirements about how to address SLR;
- Available technology and industry best practices at the time; and
- Both the observed rate of actual SLR and available science with updated estimates of future SLR.

5.3.3 Sea Level Rise Monitoring and Implementation Report

The monitoring program will require periodic preparation of a report on the progress of the adaptive management strategy. SACFD will commission the report which will be prepared and submitted to the relevant City agencies for review and comment no less than every five years and more frequently if required by regulators. The report will include:

- The publication of the data collected and literature reviewed under the monitoring program;
- A review of changes in Local, State or Federal regulatory environment related to SLR, and a discussion of how the Project is complying with applicable new regulatory requirements;
- A discussion of the improvements recommended to be made if sea levels reach the anticipated thresholds identified in the Decision-Making Frameworks within the next 5-years; and
- A report of the fund collected for implementation of the adaptive management strategy, and a projection of funds anticipated to be available in the future.

5.3.4 Funding Mechanism

The SACFD will establish a funding mechanism, likely a project special tax, to create project-generated funding that will be dedicated to paying for monitoring and flood protection improvements necessary to implement the Adaptive Management Strategy for the Project. Funds will be overseen by the SACFD.

Figure 5.1 Sea Level Rise Potential Areas of Inundation — Existing Conditions

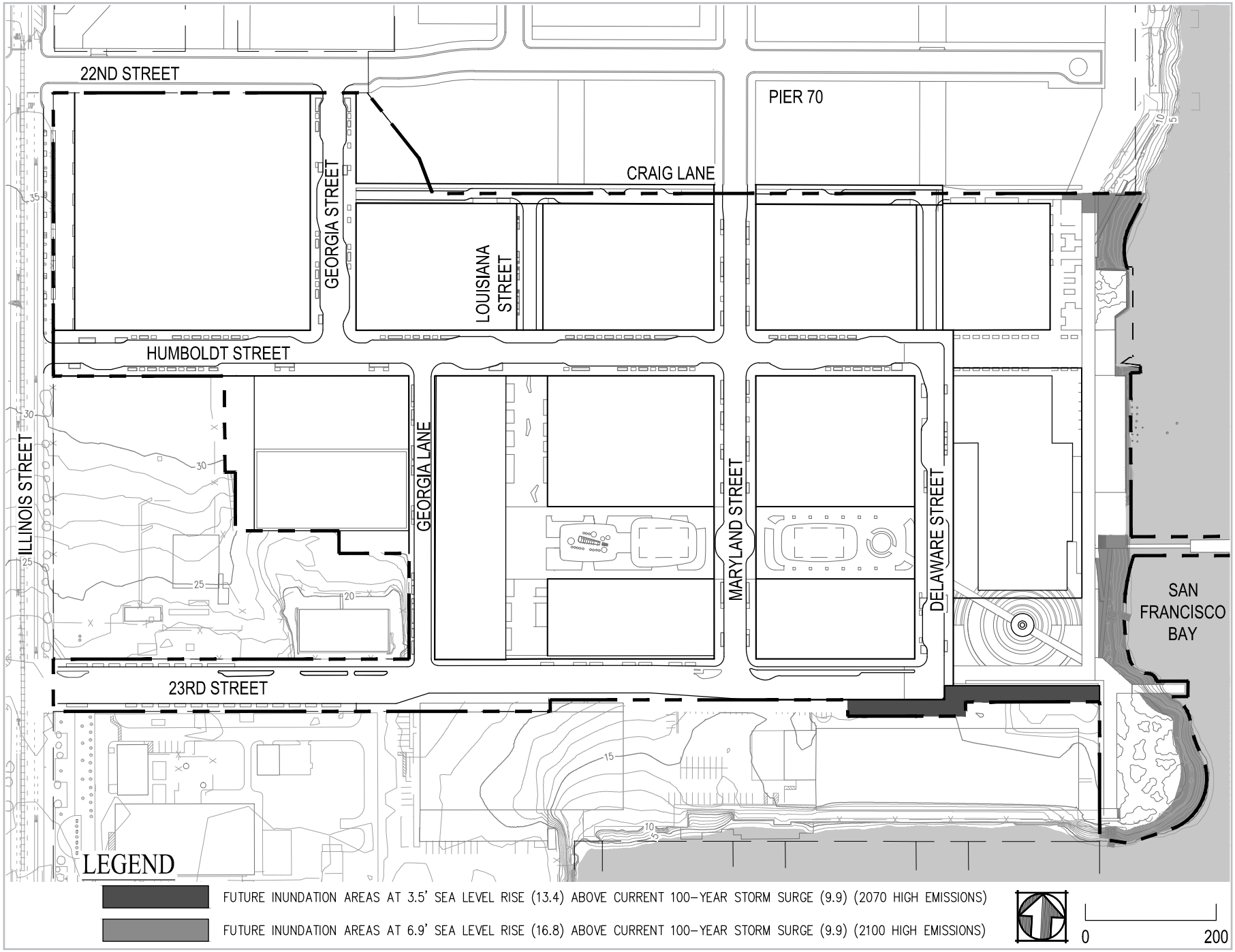


Figure 5.2 Sea Level Rise Potential Areas of Inundation - Proposed Conditions

6 GEOTECHNICAL CONDITIONS

6.1 Existing Site Geotechnical Conditions

Approximately, the eastern third of the Potrero Power Plant site is land formed by placing fill in the San Francisco Bay beyond the original shoreline. This portion of the site consequently has a significant thickness of existing fill that was placed at the site during the late 1800s and early 1900s, with the area east of the historic shoreline filled in the late 1800s and the area southwest of the historic shoreline filled in the early 1900s. Based on explorations, the fill thicknesses generally range from ten to 25 feet southwest of the historic shoreline and five to 52 feet east of the historic shoreline. Most of the fill appears to have been derived from cut into the western portions of the site where a previous hillside was lowered to construct buildings and other improvements. Review of previous explorations within the Switchyard and General Construction area show fill thicknesses ranging between one and six feet before encountering weathered Franciscan bedrock.

On the Bay side of the original shoreline, the fill is underlain by Young Bay Mud varying to depths of 30 to 77 feet within the most current explorations. Previous subsurface explorations indicate the presence of irregular Young Bay Mud thicknesses that were likely caused by rotational slumps / mudwaves that occurred due to rapid filling over the Young Bay Mud.

The approximate depth to bedrock at the site is mapped as varying between approximately 50 to 100 feet below existing grade along the eastern limits of the project. The bedrock comprises Jurassic-age Franciscan, with serpentinite mapped as the predominant rock type. Bedrock exposures can be found at the western portion of the project.

6.2 Existing Site Geotechnical Constraints

6.2.1 Liquefaction

Soil liquefaction results from loss of strength during cyclic loading, such as imposed by earthquakes. The soil most susceptible to liquefaction is clean, loose, saturated, uniformly graded fine sand below the groundwater table. Empirical evidence indicates that loose silty sand is also potentially liquefiable. When seismic ground shaking occurs, the soil is subjected to cyclic shear stresses that can cause excess hydrostatic pressures to develop. If excess hydrostatic pressures exceed the effective confining stress from the overlying soil, the sand may undergo deformation. If the sand undergoes virtually unlimited deformation without developing significant resistance, it is said to have liquefied, and if the sand consolidates or vents to the surface during and following liquefaction, ground settlement and surface deformation may occur. In some cases, settlements of approximately 2% to 3% of the thickness of the liquefiable layer have been measured.

Based on the results of the liquefaction analysis performed within the fill, it is estimated that site could experience up to 6 inches of liquefaction-induced settlement within the artificial fill material at the site. However, due to the variable thickness and composition of the fill, the differential could be rather large across the fill area.

6.2.2 Slope Stability

Due to the presence of liquefiable artificial fill over soft Young Bay Mud below the site, deformation of the shoreline could occur as a result of seismic loads consistent with the building code Maximum Considered Earthquake as well as lower levels of earth shaking. The deformation could take place as either lateral spreading due to the presence of a free face and loss of shear strength within the artificial fill following liquefaction and / or as a deeper shear failure within the Young Bay Mud.

Based on the results of the slope stability analysis, it is estimated that theoretical seismically induced permanent displacements could be on the order of 2 to 4 feet if geotechnical corrective measures are not taken.

6.2.3 Existing Fill and Soft / Compressible Soil

Review of the site history and previous explorations indicate the site is underlain by significant thicknesses of non-engineered fill and Young Bay Mud. Non-engineered fill and Young Bay Mud can undergo excessive vertical settlement, especially under new fill or building loads.

Because of the age of the fill, it was likely not engineered to the current standards for a site of this type. Further, it is anticipated that Young Bay Mud is normally consolidated due to historic filling activities at the site. Non-engineered fill and Young Bay Mud can undergo excessive settlement, especially under new fill or building loads.

6.3 Geotechnical Corrective Measures

6.3.1 Grading Considerations

The eastern portion of the proposed development will be elevated to provide built-in protection from potential future sea level rise.

Due to the project being underlain by Franciscan bedrock, this Project will be required to follow the rules and regulations outlined in the Asbestos Airborne Toxic Control Measure ("ATCM") for Construction, Grading, Quarrying and Surface Mining Operations established by the Bay Area Air Quality Management District ("BAAQMD") under California Code of Regulations, Title 17, Section 93015. The purpose of this regulation is to reduce public exposure to NOA from construction and mining activities that emit dust, which may contain naturally occurring asbestos (NOA). The ATCM requires regulated operations engaged in road construction and maintenance activities, construction and grading operations, and quarrying and surface mining operations in areas where NOA is likely to be found, to employ the best available dust mitigation measures in order to reduce and control dust emissions.

As part of compliance with the ATCM, an Asbestos Dust Mitigation Plan ("ADMP") should be prepared by a qualified representative for approval by the BAAQMD and for inclusion in the contract documents. Dust monitoring during ground disturbing activities may be required.

6.3.2 Soil Surcharging with Wick Drains

Where there are not conflicts with existing adjacent improvements or structures that will remain, surcharging with wick drains is likely the preferred method of mitigation of static settlement hazards, including differential settlement, from consolidation of compressible deposits. This mitigation method is appropriate for lightly loaded structures, structures with significant excavation depths, and areas that will have future grades raised (including designated utility corridors).

Wick drains are installed in soft/compressible soil to accelerate drainage during surcharge programs. The prefabricated drains create pathways for water to be pushed out of soft / compressible soils and are installed by attaching the drains to an anchor plate and pushing the anchor plate to specified depths. Due to the rocky nature of the fill, some predrilling of the wick drains may be necessary. A surcharge fill is then applied over the area of installed drains, and surface settlements and pore pressures within the soft / compressible material are monitored before additional soil surcharge is placed.

Mitigation against bearing failure as a result of rapid surcharging includes using staged surcharging so that the height of surcharge placed at one time is not high enough to cause ground failure, monitoring surface settlements, and pore pressures within the soft/compressible layer. Depending on the height of surcharge required, staged fill placement may be necessary.

6.3.3 Lightweight Fill

An alternative mitigation option for static settlement hazards, including differential settlement, from consolidation of compressible deposits at the site includes removal of existing fill and replacement with lightweight fill. This mitigation method may also be applied for lightly loaded structures, structures with significant excavation depths, and areas that will have future grades raised (including designated utility corridors).

The lightweight fill may be permeable or impermeable cellular concrete. Due to the voids in the permeable cellular concrete, buoyancy is not an issue, so the cellular concrete can be placed below future groundwater level without designing for uplift. The thickness of lightweight fill used should be determined based on two times the thickness of Young Bay Mud excavated but no less than a minimum thickness of 5 feet in locations where the Young Bay Mad is encountered. Neither permeable nor impermeable cellular concrete can be placed below water, so if the base of the cellular concrete must be below groundwater level, the excavation will need to be dewatered until some point after the material cures. The required minimum thickness will need to be determined depending on the documented unit weight of material as verified by the Geotechnical Engineer during construction.

Lightweight fill is not currently allowed within the public right-of-way per the Subdivision Regulations. If lightweight fill is proposed within the public right-of-way, it must be approved by the DPW and SFPUC no later than the approval of the Master Tentative Map. The approval of use of lightweight fill in the public right-of-way may include necessary conditions and mitigations, including long term liability, maintenance and design oversight.

6.3.4 Deep Soil Mixing

Below-grade shoreline stabilization with a Deep Soil Mix ("DSM") buttress would address potential lateral spreading as well as potential seismic slope deformation; in our experience this approach is the most economically feasible alternative to achieve the desired performance though other methodologies capable of achieving appropriate performance will be evaluated at the design phase. DSM mixes soil, cement and water to create individual or overlapping columns of cement-treated soil with specified strengths and stiffness. A mixing rig with either single or multiple mixing augers is advanced to specified depths, and the cement and water are added during initial auger advancement, and also during auger withdrawal.

Current environmental mitigation at the site includes large-diameter DSM mixing that extends through the fill to encapsulate contaminants and make them immobile. The

necessary depth for shoreline stabilization is significantly greater than the depth of the environmental DSM mixing, therefore the environmental DSM mixing will not assist in shoreline stabilization. While it is likely DSM can be performed through the environmental soil mixing, a large amount of spoils will likely be generated and bench testing by the environmental consultant may be necessary to determine on-site reusability.

6.3.5 Deep and Intermediate Foundations

To address liquefaction in a seismic event and static settlement hazards for moderately to heavily loaded structures, structures in the vicinity or outside of the historic 1851 shoreline will likely be founded on deep or intermediate foundation systems. Deep foundations will likely comprise steel pipe-piles driven to bedrock refusal, while intermediate foundations may comprise spread footings or a structural mat foundation in conjunction with improved soil. Deep foundations would utilize a refusal or driven length criteria. If a driven length criteria is chosen, a load testing program would typically be performed to confirm load capacities. Due to the nature of the rocky fill, some amount of predrilling may be necessary prior to driving piles.

Improved soil for intermediate foundations would likely utilize vibro-compaction or vibro-replacement methods. Vibro-compaction improves the soil in-situ by lowering a crane-mounted vibrator to specified depths. The vibrator densifies the surrounding soil in lifts, and clean sand backfill is added at the ground surface to compensate for the decrease in soil volume from the densification process.

Vibro-replacement uses similar equipment to vibro-compaction activities, and comprises construction of dense stone columns. A vibrator is lowered to a specified depths, and aggregate is introduced through an annular space around the vibrator. The vibrator is raised as more aggregate is introduced, and the end result is a stone column surrounded by densified soil. Due to the nature of the rocky fill, some amount of predrilling may be necessary prior to vibro-replacement or vibro-compaction.

6.4 Phases of Geotechnical Corrective Measures

The geotechnical corrective measures will be completed in phases to facilitate the proposed development. It is anticipated that the majority of the geotechnical corrective measures will be completed in conjunction with the demolition and mass grading operations, Phase 0.

Any proposed geotechnical corrective measures within the public rights-of-ways will require review and approval from the Department of Public Works.

6.5 Schedule for Additional Geotechnical Studies

Supplemental geotechnical studies and reports will be prepared as required to support the proposed public improvements. In addition, geotechnical reports for private building parcels will be prepared and submitted as part of the building permit process.

7 SITE GRADING

7.1 Existing Site Conditions

The existing topography of the Project Site is primarily gently sloped downward from the west to the east, towards the waterfront. There is an existing high point in Humboldt Street along the north side of the Station A building. The areas west of this high point slope to the west, towards Illinois Street, whereas the remainder of the site slopes to the east, towards the Bay. The existing elevations within the Project Site range from 44.5 feet at the Humboldt Street high point to 9.5 feet along portions of the waterfront ("SFVD13 Datum"). There is an existing grade differential to the existing elevations of the adjacent Pier 70 site, up to approximately 12 feet, along the eastern half of the Project northern boundary. The existing elevations of 23rd Street range from 22.5 at a high point located near the PG&E Substation to 11.5 at the eastern extent of the private portion of the street.

The Project Site has almost no vegetation. There are no significant landscape elements or street trees, except the existing street trees on the east side of Illinois Street along the Project frontage. The site has effectively 100% impervious coverage. See Figure 7.1 depicting the existing site topography.

7.2 Proposed Project Grading Overview

The Developer will be responsible for the design and construction of the proposed site grading. The proposed site grading is depicted on Figure 7.2. The proposed site grading includes raising elevations along the waterfront to approximately elevation 17.5 ("SFVD13"), providing protection from over 5 feet of sea level rise plus the 100-Year BFE.

The proposed grading will maintain the existing drainage patterns. The site grading will be configured to provide a physical delineation with high point separating the portions of the Project within the combined sewer watershed (western) and the portions draining to the Bay (eastern). This provides protection from potential overflows from the combined sewer system discharging to the Bay.

Paths of overland release have been integrated to the site grading to ensure storm flows from an extreme storm (i.e. 100-year event) will flow overland and discharge without causing impacts to buildings.

The areas west of the Humboldt Street high point, located at directly east of the intersection with Georgia Street, will have overland release and drain towards Illinois Street. The small portions of Georgia Street, north of Craig Lane, and Block 14 will overland release towards 22nd Street and through Pier 70. The portion of 23rd Street west of Station A will overland release towards Illinois Street. The remainder of the site will overland release over the curbs and open spaces along the Project shoreline and Bay. Figures 7.3 and 7.4 depicts the proposed watersheds and paths of overland release within the Project.

The proposed site grading will establish minimum elevations along the shoreline of 17.5 and then increase in elevation as the Project extends to the west.

The proposed improvements within 23rd Street, specifically the eastern portions will be elevated to provide a minimum elevation of 17.5. The project will construct pavement conforms and retaining walls as necessary to address the grade differential between the proposed improvements and the existing elevations of the loading docks associated with the neighboring buildings on the south side of 23rd Street. A curb will be constructed along the south side of 23rd Street to collect stormwater from the street prior to the existing loading docks.

The high point of Humboldt Street will be lowered approximately eight feet and shifted westerly. This improves site accessibility along Humboldt Street and views to the Bay through the Project.

The existing elevation of the Stack and Unit 3 is approximately 14, which will be maintained. The elevations of the surrounding improvements will conform to this localized low point.

The grade differential along the northern property line will be coordinated with the development of the Pier 70 site. Pier 70 proposes to raise elevations along this common property line. The site grading has been coordinated to match the elevations proposed by Pier 70 along this common property line. See Figure 7.5 depicting the proposed cross sections at the project extents.

7.3 Elevation and Grading Design Criteria

The minimum elevations for the Project are established as the FEMA 100-year BFE plus 5.5 feet, providing built-in protection from sea level rise.

7.3.1 Base Flood Elevations (BFE)

The 100-Year BFE at the site is based upon FEMA's San Francisco Bay Area Coastal Study. This study analyzed extreme tidal data, completed regional hydrodynamic and wave modeling of the Bay and onshore coastal analysis to estimate wave run up, overtopping and propagation to establish the 100-Year BFE throughout the waterfront of the Bay. The preliminary FEMA flood designation map (Map No. 0602980119A) indicates that the 100-year BFE within the Project range from elevations 11-12 feet. See Figure 7.6 depicting the FEMA flood map for the Project. Coastal flood elevations are dependent on the shoreline geometry. The final shoreline improvements and associated geometry will be evaluated by the Project shoreline engineer to confirm the project minimum elevations conform to FEMA's requirements.

7.3.2 Sea Level Rise

The Project will be designed to accommodate future sea level rise. More detailed discussion of the Project's protection strategy from future sea level rise is in Section 5 and the storm drain system sea level rise performance criteria in Section 15. The design criteria for the site grading include built-in accommodation for up to 5.5 feet of sea level rise above the BFE. This has been conservatively selected from the best available scientific modeling and forecasts available.

7.3.3 Long Term Settlement

Geotechnical corrective measures, described in Section 6, will be implemented to minimize long term settlement within the Project. The corrective measures will address long term settlement associated with potential liquefaction and the compressible Young Bay Mud underlying soils. The site grading will accommodate any minimal amounts of residual long-term settlement anticipated due to secondary compression of the underlying soils.

7.3.4 Design Elevations

The design minimum elevations for the proposed streets, open space and park areas within the Project are established as the BFE plus 5.5 feet, elevation 17.5. The design minimum elevation for proposed buildings are established as BFE plus 5.5 feet of sea level rise plus 1 foot of freeboard, elevation 18.5. The elevation of the areas of adaptively reused structures. The Stack and Unit 3 will remain at the existing elevation of 14. The elevation of Station A, if reused, will have a lowest ground floor elevation of 22.

7.4 Site Grading Design

The proposed site grading is depicted on Figure 7.2. The specific grading requirements for each component of the project are as follows:

7.4.1 Proposed Building Areas

The minimum elevations of the proposed first floor elevations and proposed below grade garage entrances will be established as the BFE plus 5.5 feet of sea level rise and 1-foot of freeboard elevation 18.5. The building first floor elevations will be set to provide accessible entrances to the surrounding streets.

7.4.2 The Stack, Unit 3 and Station A

The existing elevations of the Stack and Unit 3 are approximately 14. This elevation is proposed to be maintained as part of the adaptive reuse of these structures. The areas surrounding the Stack and Unit 3 will need to conform to this lower elevation with either slopes or retaining walls. The drainage system of this localized low point will be designed to address sea level rise in excess of 24 inches, including a pump station and tidal backflow protection measures.

If Unit 3 is determined to not be feasible to adaptively reuse, this area will be raised to the minimum elevations as outlined for new buildings (minimum elevation 18.5) or open space (minimum elevation 17.5).

The existing Station A structure has multiple floor levels that address the varying ground elevations around the perimeter of this building. The ground elevations around the perimeter of the Station A structure range from elevation 22 to elevation 32. The elevation of Station A, if reused, will have a lowest ground floor elevation of 22.

7.4.3 Proposed Street Areas

The minimum elevations of the proposed public streets and private alleyways will be established as the BFE plus 5.5 feet of sea level rise, elevation 17.5. The existing elevations of the eastern extent of 23rd Street will be raised to elevation 17.5. Pavement transition conforms and retaining walls will be constructed by the Developer to address conforms to the existing elevations of the loading docks and buildings on the south side of 23rd Street. A curb will be constructed along the south side of 23rd Street to collect stormwater from the street prior to the existing loading docks.

The proposed street and open space elevations will maintain overland release to the Bay. The portions of the site within the western watershed will overland to Illinois, 22nd and 23rd Streets, which eventually overland release to the Bay through 22nd Street and 23rd Street. The remainder of the Project within the eastern watershed will overland to the Bay through the project streets and open space areas. The streets will maintain a minimum effective slope of 0.3% directing overland flows to the Bay. Localized low points must have a down stream release elevation that prevents overtopping of the curb in the 100-year design storm. Where the public streets connect park and open space at the Stack Plaza and Humboldt Plaza, the City may consider an overland release design which takes into consideration the hydraulics, fine grading, accessibility design and public safety.

There may be some localized low points in the streets. The streets must contain storm runoff from a 100-year design storm during a 100-year tidal event below the street top of curb elevations.

7.4.4 Open Space and Park Areas

The minimum elevations of the proposed open space, park, Blue Greenway and waterfront areas, except for these areas directly adjacent to the Stack and Unit 3, will be established as the BFE plus 5.5 feet of sea level rise. The waterfront areas will conform to the proposed elevations of the proposed improvements to the north within Pier 70. The shoreline areas east of the Blue Greenway will be designed for safe public access to the Bay at certain locations.

7.4.5 Basement Excavations

The buildings may include 1-level of below grade basement parking. The excavations of the basements will be completed with the building construction. The building will be required to apply and obtain a dewatering permit from the City if the basement excavation requires dewatering.

7.5 Proposed Site Grading Along Boundary

The proposed site grading will conform to the existing elevations to remain at the project limits. Elevation differences at the project limits may be accommodated by either earthen slopes or retaining walls. The proposed elevations on the west boundary of the project will conform to the existing elevations of Illinois Street and the PG&E southern switchyard. The proposed elevations along the northern boundary of the project will conform to the proposed elevations of 22nd Street and Craig Lane. This will be coordinated with Pier 70's final design of the 22nd Street improvements and the buildings just north of Craig Lane. The proposed elevations of eastern extents of 23rd Street will require pavement transitions to conform from the proposed elevations

of 23rd Street to the existing elevations of the loading docks and buildings on the south side of the street. A curb will be constructed along the south side of 23rd Street to collect stormwater from the street prior to the existing loading docks. See the proposed grading sections of each of these conditions on Figure 7.5.

7.6 Earthwork Quantities

The estimated earthwork associated with the site grading is summarized in Table 7.1.

Table 7.1 Earthwork Quantities

	Cut (cy)	Fill (cy)	Net (cy)
Phase 1	96,000	16,000	80,000
Phase 2	66,000	500	65,500
Phase 3	51,000	4,000	47,000
Phase 4	61,000	500	60,500
Phase 5	94,000	0	94,000
Phase 6	26,000	0	26,000
Phase 7	60,000	0	60,000
Total	**454,000**	**21,000**	**433,000**

7.7 Phases of Site Earthwork

The site grading will occur in phases as necessary to implement the specific proposed Development Phase and consistent with the Project Phasing Plan. The limits and quantity of site grading will be minimized to the extent practical for each Development Phase. The proposed site grades will conform to the existing adjacent grades as close to the perimeter of that Development Phase area as possible. Interim grading will be completed and maintained as necessary to support existing facilities and improvements impacted by the proposed Development Phases.

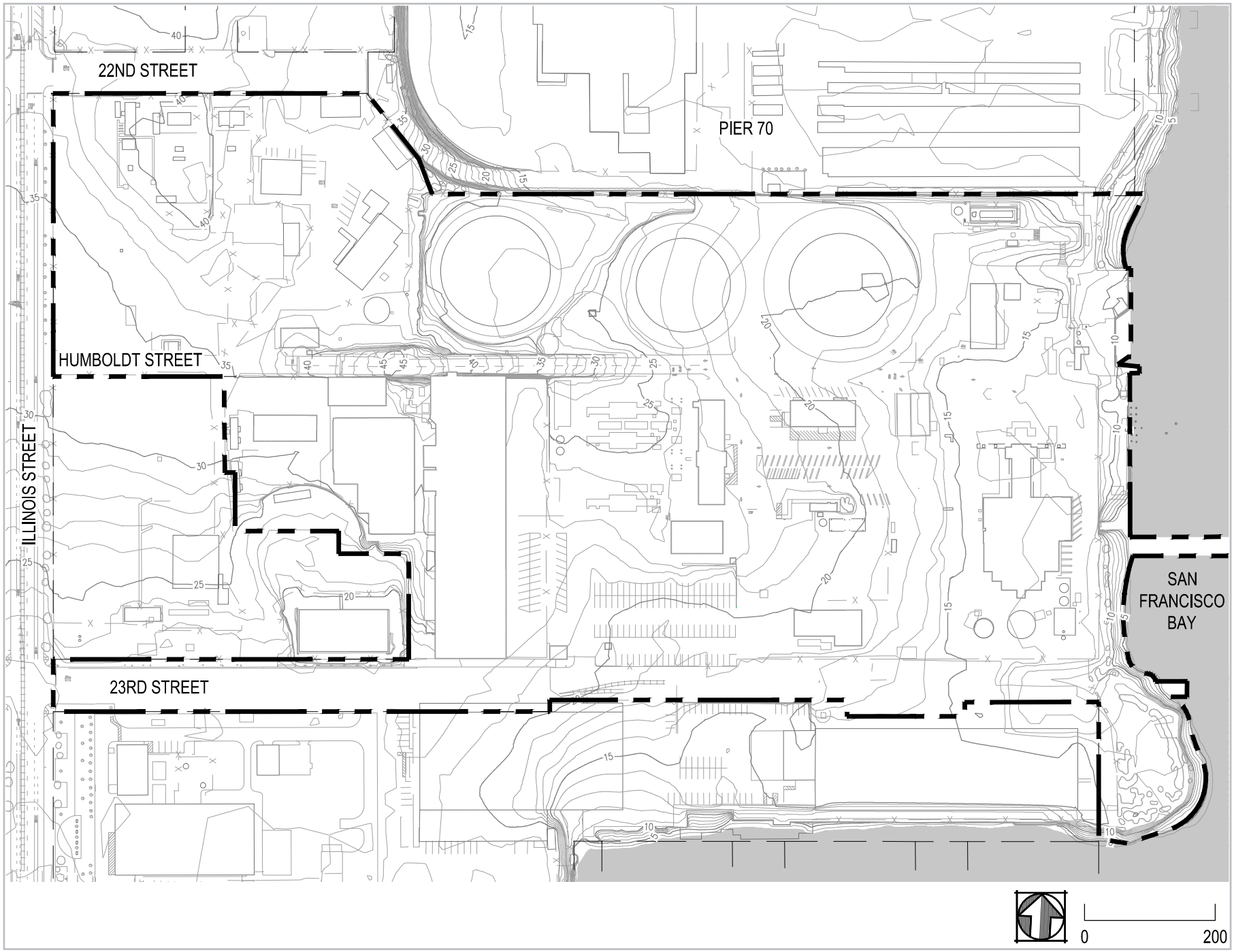


Figure 7.1 Existing Site Topography

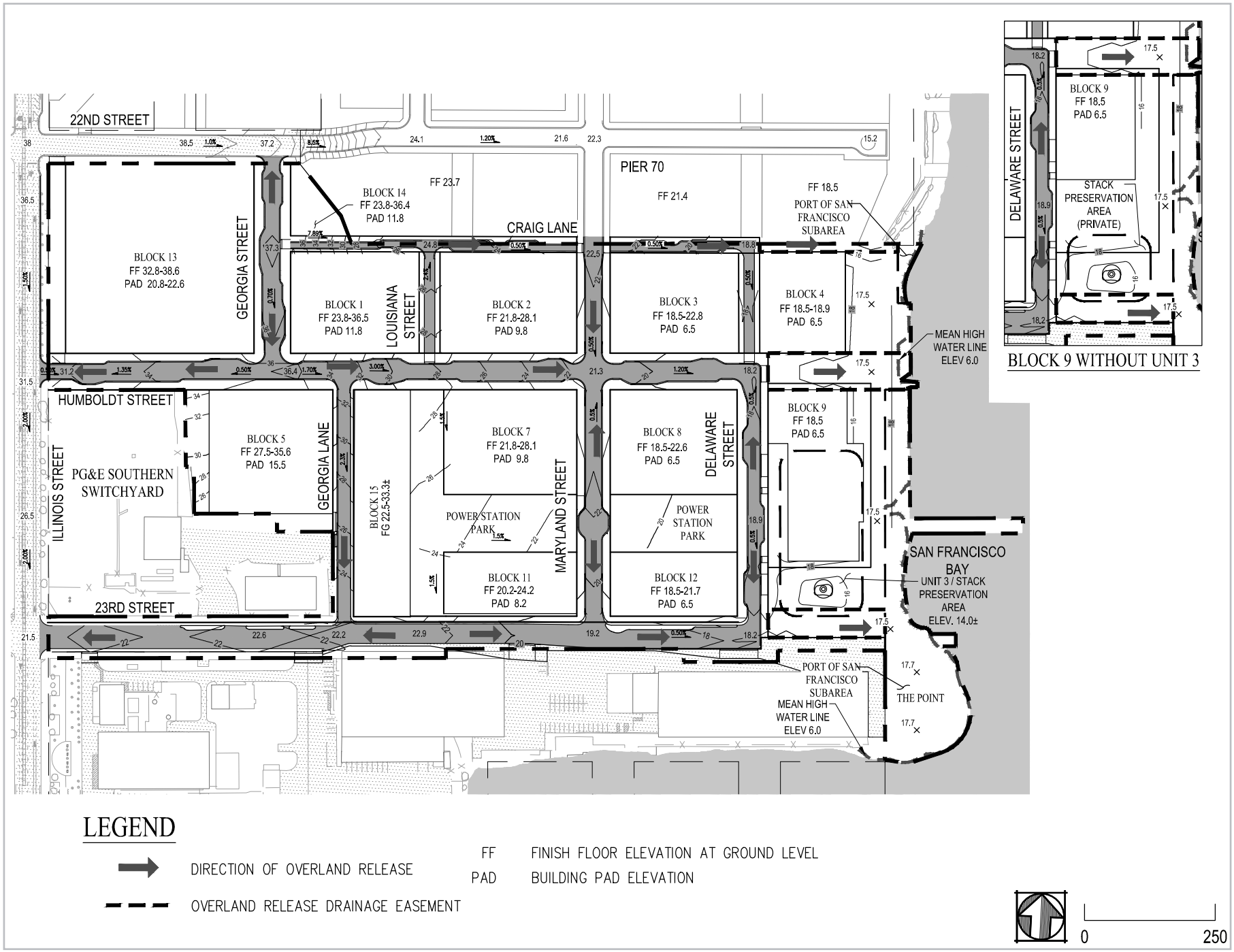


Figure 7.2 Proposed Site Grading

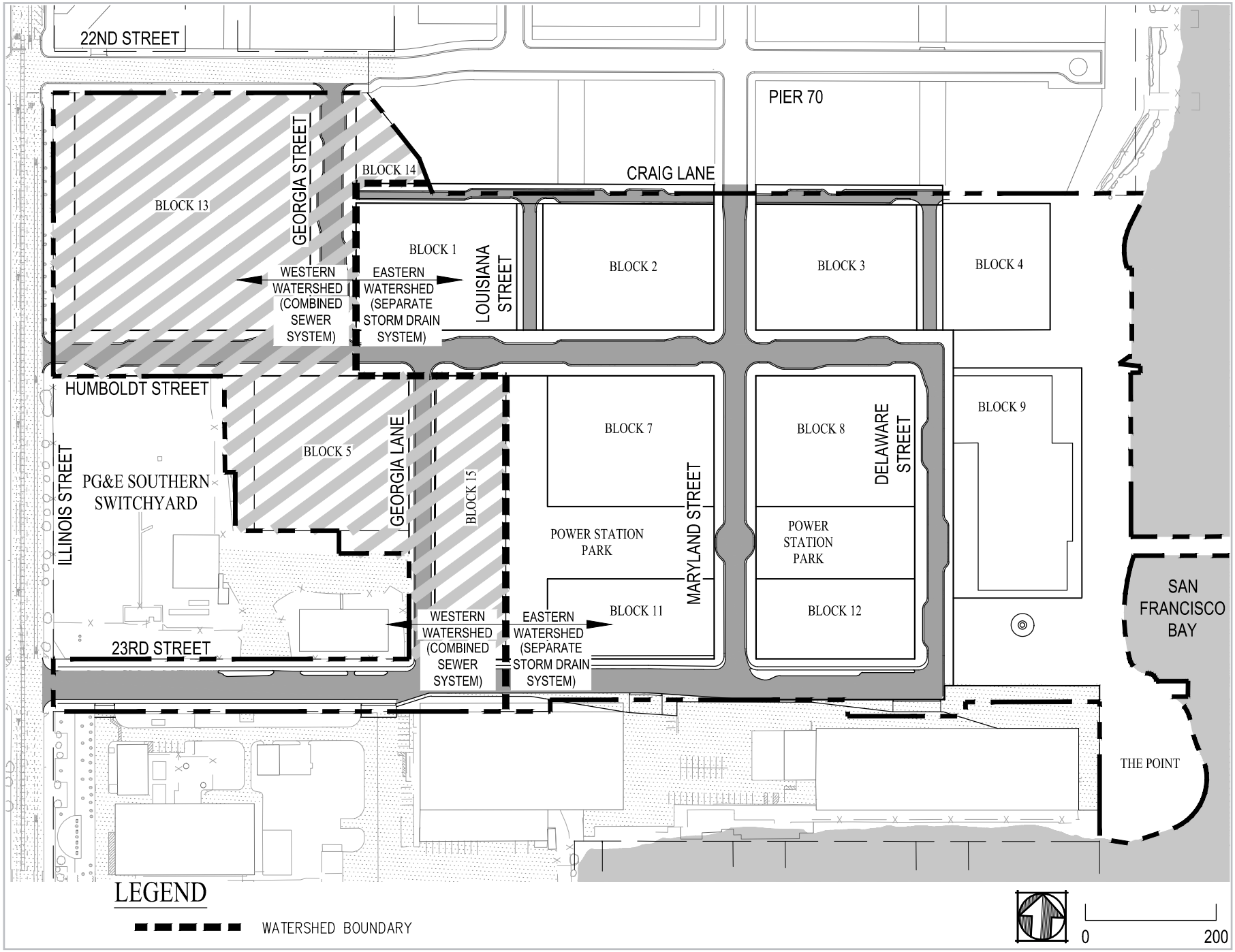


Figure 7.3 Proposed Watersheds

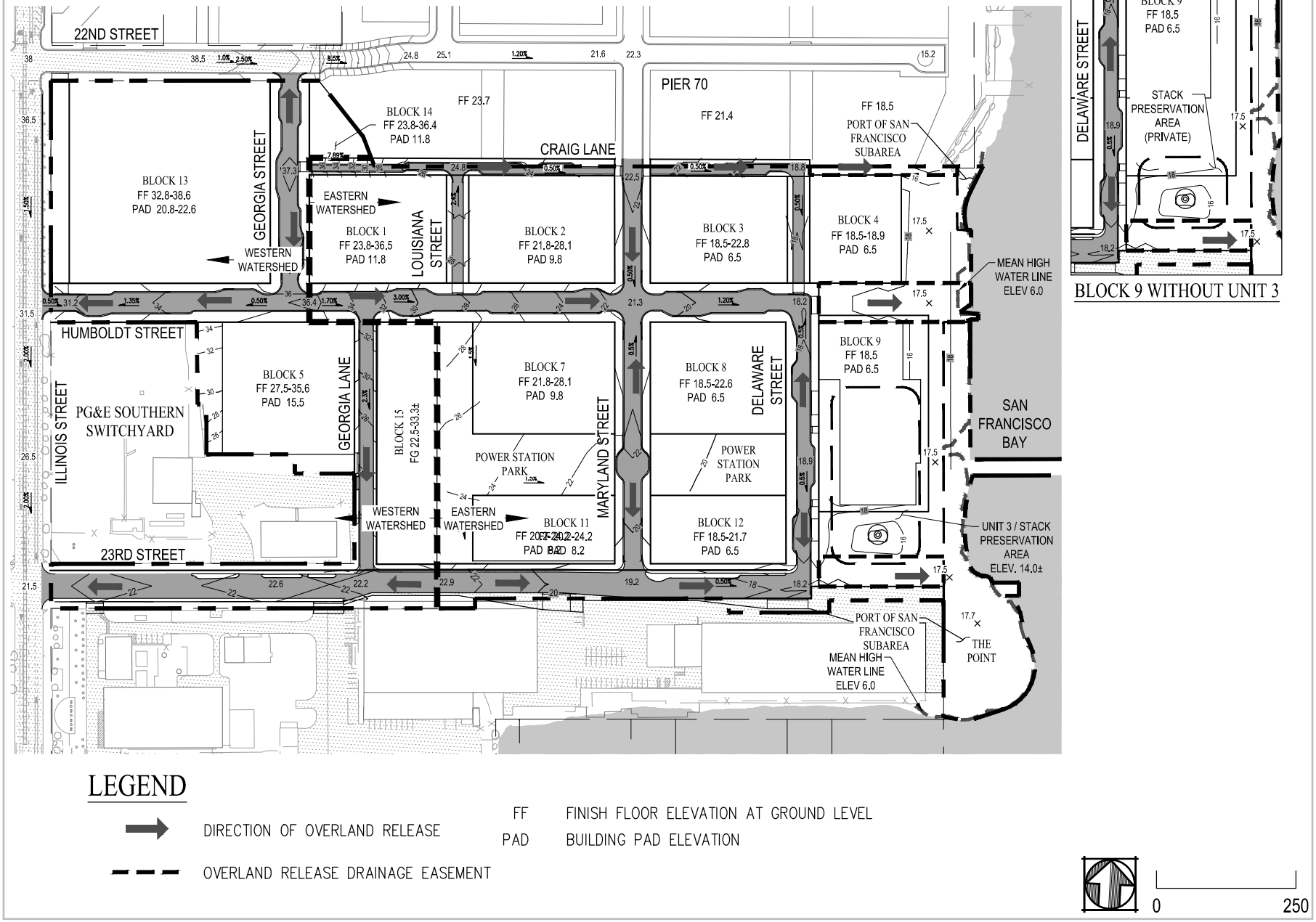


Figure 7.4 Proposed Overland Release

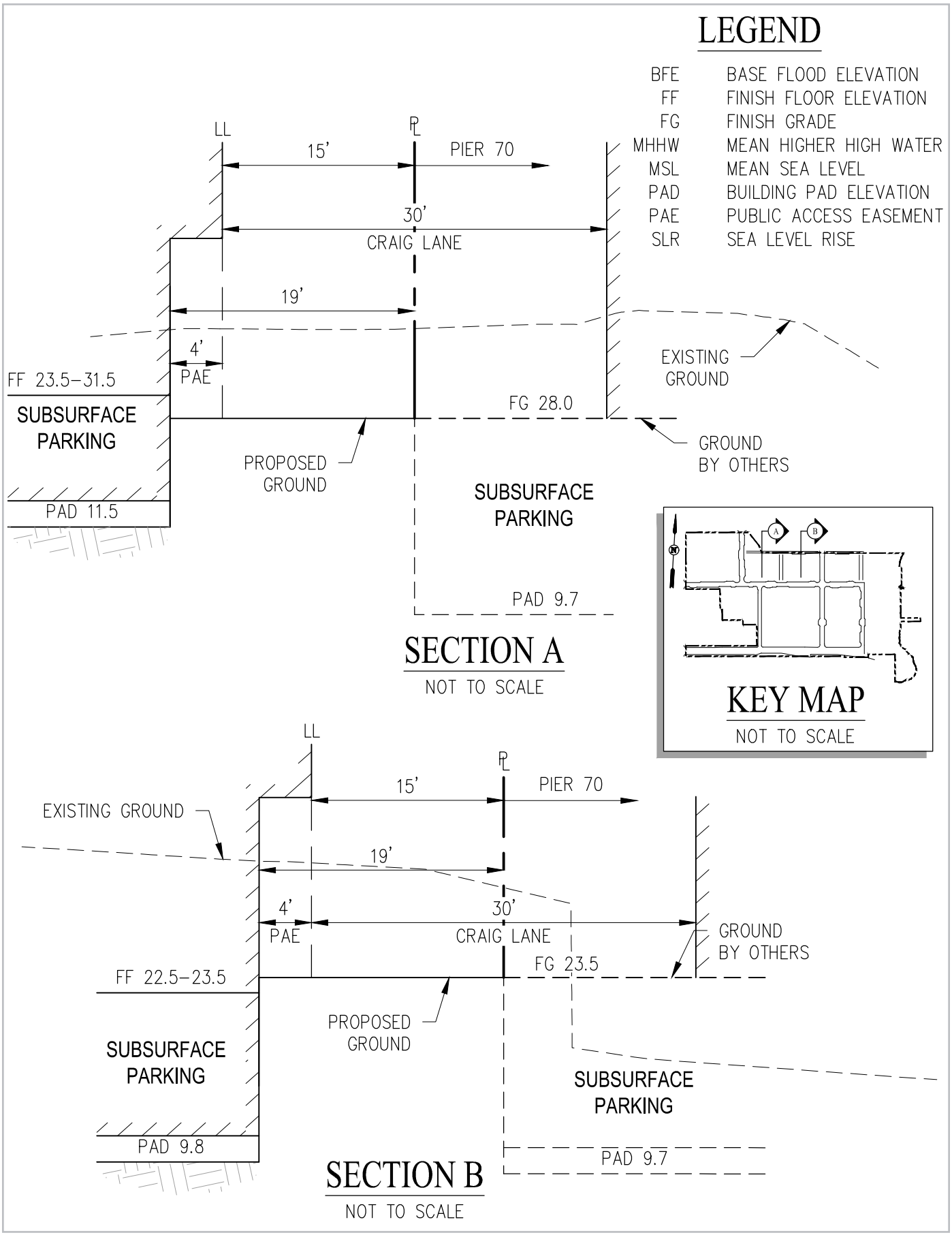


Figure 7.5 Grading Cross Sections at Project Boundaries - Section A & B

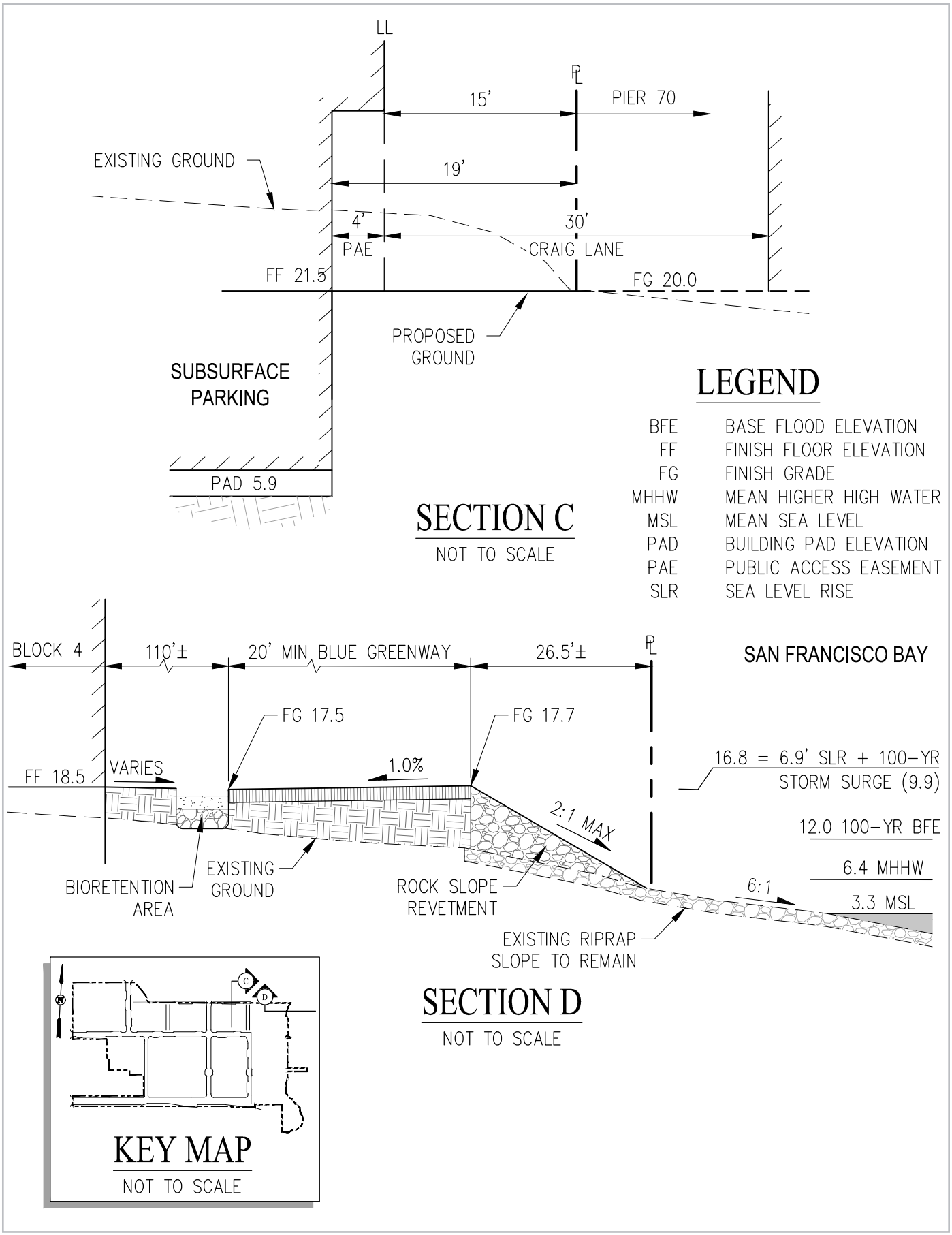


Figure 7.5 Grading Cross Sections at Project Boundaries - Section C & D

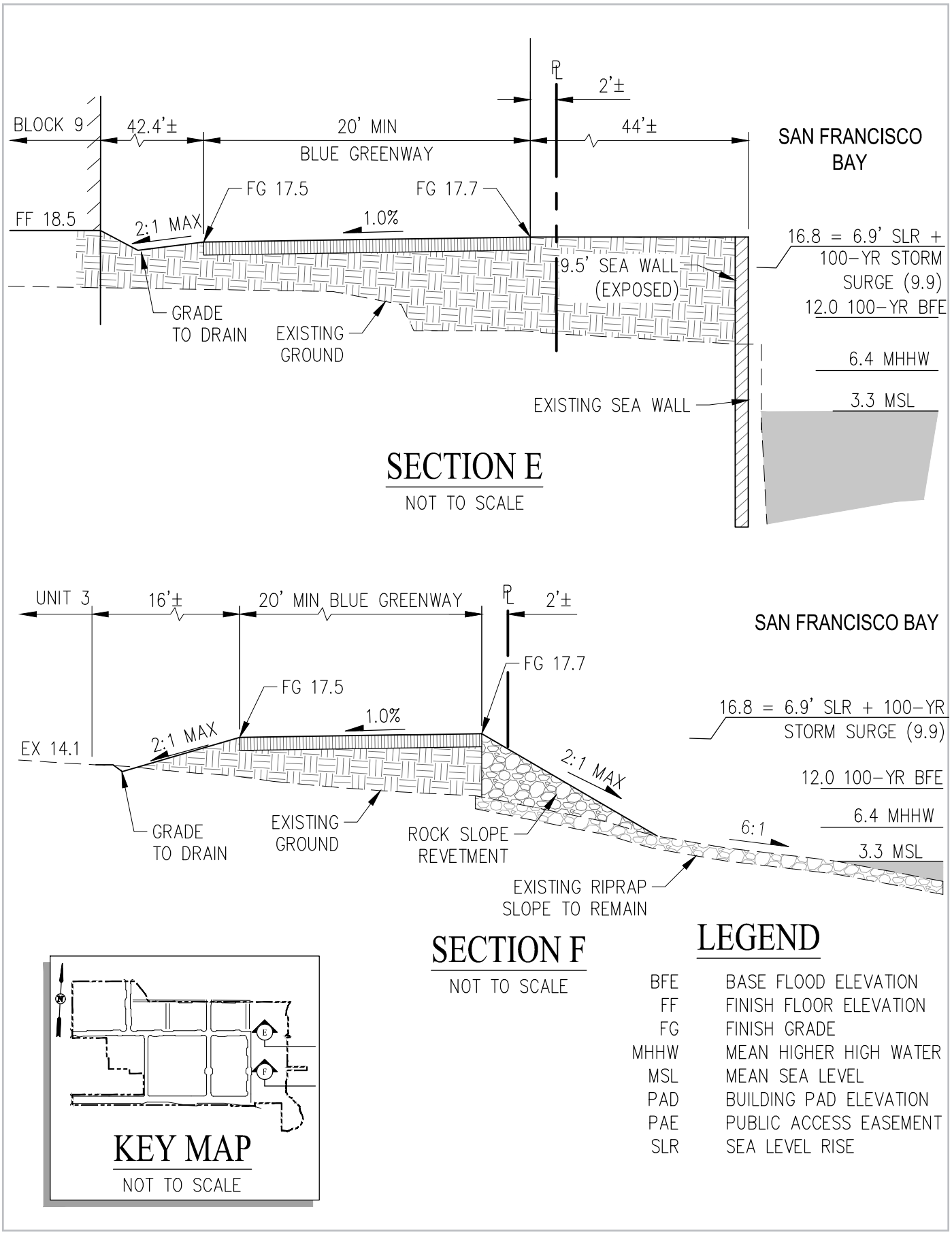
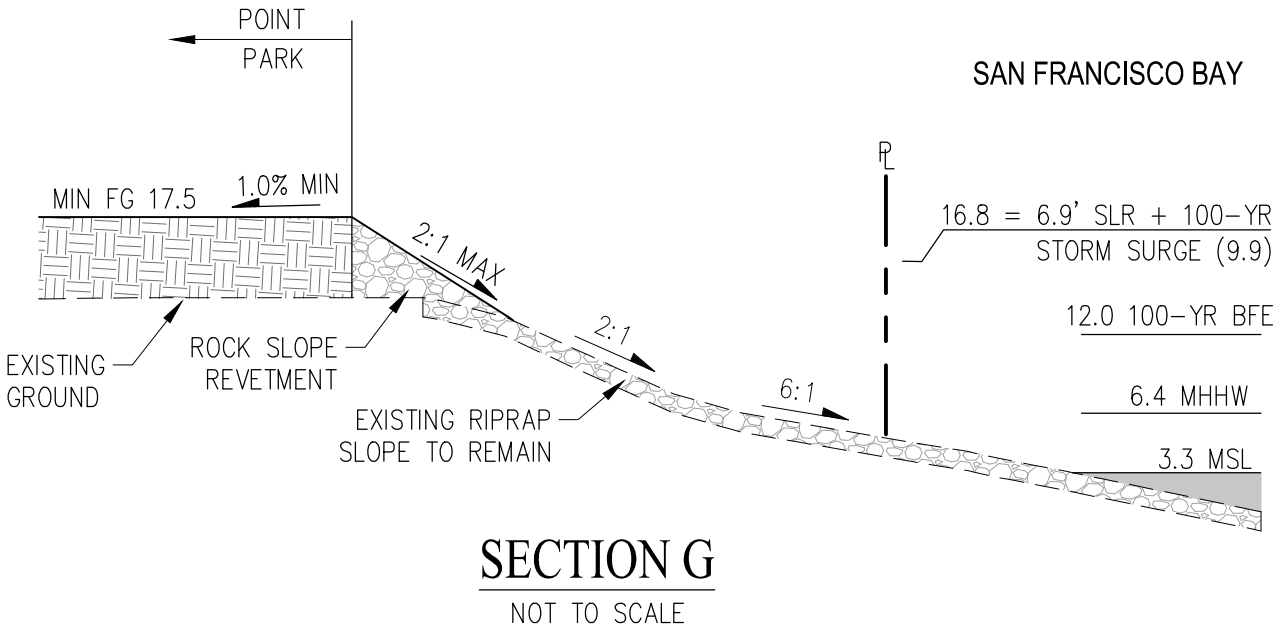
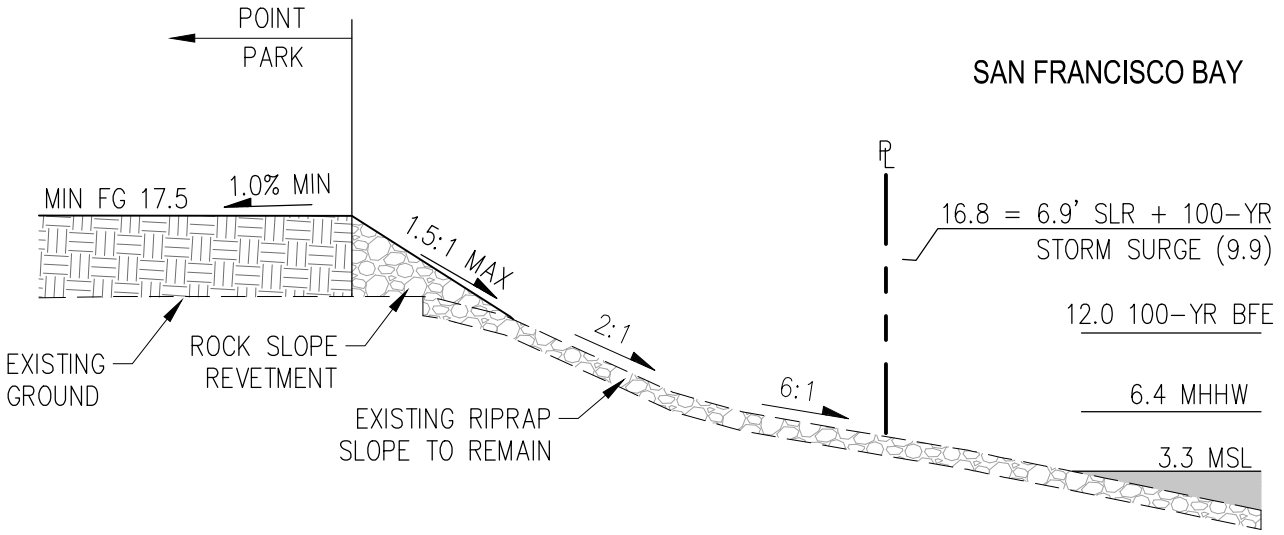


Figure 7.5 Grading Cross Sections at Project Boundaries - Section E & F



SECTION G

NOT TO SCALE

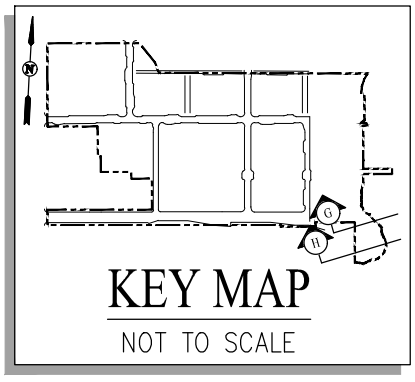


SECTION H

NOT TO SCALE

LEGEND

BFE	BASE FLOOD ELEVATION
FF	FINISH FLOOR ELEVATION
FG	FINISH GRADE
MHHW	MEAN HIGHER HIGH WATER
MSL	MEAN SEA LEVEL
PAD	BUILDING PAD ELEVATION
PAE	PUBLIC ACCESS EASEMENT
SLR	SEA LEVEL RISE



KEY MAP

NOT TO SCALE

Figure 7.5 Grading Cross Sections at Project Boundaries - Section G & H

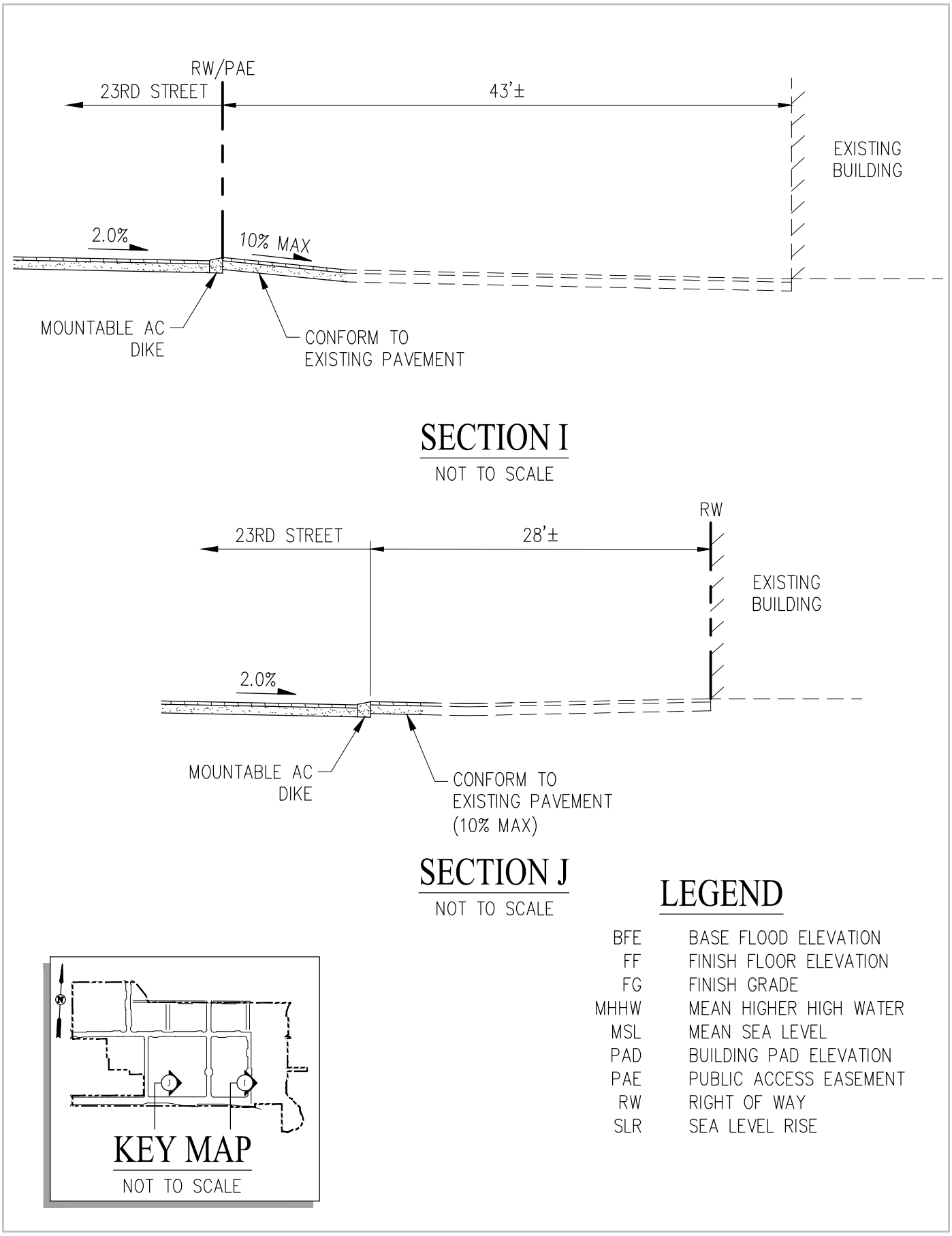


Figure 7.5 Grading Cross Sections at Project Boundaries - Section I & J

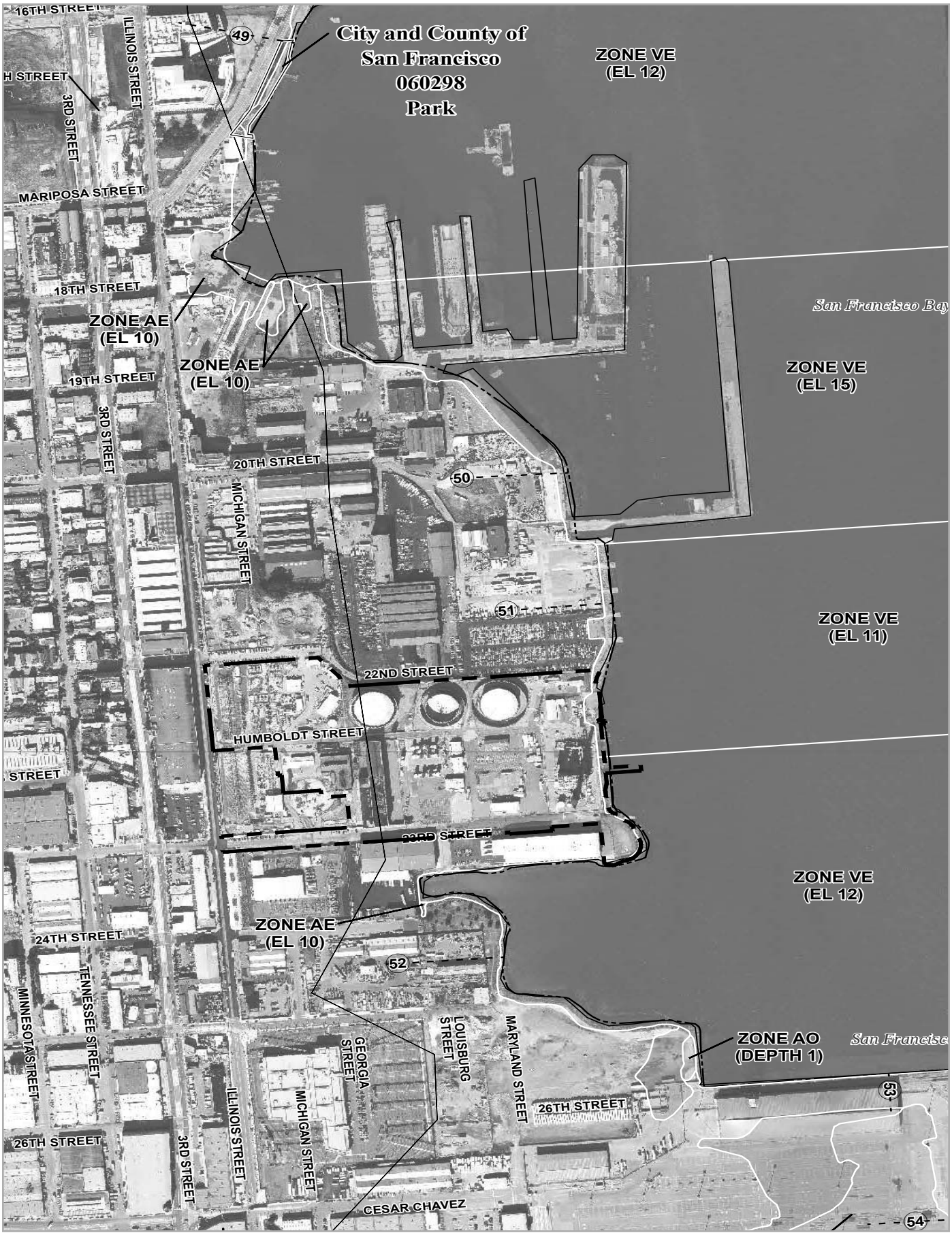


Figure 7.6 FEMA Flood Map

8 STREET AND TRANSPORTATION SYSTEMS

The Project is designed to be an extension of the surrounding street grid framework creating a unified neighborhood and providing additional access routes from the Dogpatch to the Bay. The proposed street framework will be walkable, with blocks and buildings creating urban spaces at the human scale. The proposed street system within the Project is intended to serve local access at low speeds (25 mph) establishing an accessible neighborhood that prioritizes walking, biking and transit.

8.1 Proposed Street System

8.1.1 Public Streets

The Developer will be responsible for the design and construction of the proposed public streets within the Project. The primary framework of the proposed street grid will be public streets. The proposed public streets include Humboldt Street, Georgia Lane and Street, Maryland Street and Delaware Street between Humboldt Street and 23rd Street. All proposed public streets will be two-way, with a single lane of travel in each direction. The proposed public streets would provide the primary access for emergency and fire vehicles to the proposed buildings. The street network is designed consistent with the City of San Francisco's Better Streets Plan standards. See Figure 8.1 depicting the proposed street framework and locations of public streets.

See Table 8.1 outlining the proposed public street widths and components for each street segment. Also, see Figure 10.2 depicting the proposed utility configurations relative to each proposed street section.

8.1.2 23rd Street

23rd Street is a critical east / west gateway to the Project. The Project proposes to reconstruct the existing improvements to provide an inviting and safe corridor for bicycles, pedestrians and transit while allowing for the adjacent existing uses to maintain usability of this street. The existing adjacent uses include PG&E and other large electrical facilities along the western half of 23rd Street, as well as PDR uses with loading docks along the south side as 23rd extends to the east. The proposed improvements for 23rd Street include constructing sidewalks on the north side and portion of the south side, a parking protected bicycle lane on the north side and a parking protected bicycle lane on the south side that transitions to a Class II bicycle lane as it heads to the east. The improvements along the south side of the street will conform to and allow the existing loading docks to remain operable.

The proposed 23rd Street improvements will provide a connection from the surrounding neighborhoods to the Project, the Bay and the Blue Greenway, a continuous path envisioned to extend 13 miles along the southeastern waterfront of San Francisco.

The existing ownership of 23rd Street within the Project varies. The western half of 23rd Street is existing public right-of-way. The eastern half is a private street encumbered with access easements in favor of the properties to the south. Except for the addition of curbs to direct stormwater, the street design maintains the existing configuration of loading docks on the south side of the street. Pedestrians are directed to the sidewalk on the north side of the street, across from loading activities. The street is intended to be constructed to public street standards and is proposed to be a public street with Department of Public Works approval.

If the eastern half of 23rd Street remains as a private street, some of the public utility systems would be re-routed to not occupy this private street. See Section 18 providing a description of this scenario and the associated adjustments to the utility system configurations. See Table 8.1 outlining the proposed street widths and components for the various segments of 23rd Street.

8.1.3 Illinois Street

The Project proposes to complete certain pedestrian and traffic improvements on Illinois Street. These improvements will facilitate safe access into the Project and include crosswalks and accessible ramps. Traffic signals will be installed at the Illinois / 23rd Street and Illinois / Humboldt Street intersections.

Additionally, the Project will reconstruct the sidewalk along the east side of Illinois Street from Humboldt Street to 22nd Street improving the pedestrian experience and aesthetics of the Illinois Street corridor along the Project frontage. The existing street trees in this area will be removed and replaced.

8.1.4 Private Alleys

The proposed street system includes private alleys. These private alleys include Craig Lane, Louisiana Street and the portion of Delaware Street north of Humboldt Street. Louisiana and Delaware Streets will be designed to reduce vehicle speeds and be shared by pedestrian, bicycle and vehicle traffic. The alleys will be designed for 2-way travel, with the exception of Craig Lane which will be one-way travel from east to west. See Table 8.1 outlining the widths and components of the private alleys.

Table 8.1 Street and Alley Dimensions

Street	Construction Responsibility	Right-of-Way and Public Access Area Width (feet)	Street Elements and Width (feet)
Public Streets			
Maryland Street North of Humboldt Street (D4D Figure 5.17.5)	Developer	64’	West R/W – 15’ SW/6’ B/11’ TL/11’ TL/6’ B/ 15’ SW – East R/W
Maryland Street South of Humboldt (D4D Figure 5.17.2 & 5.17.4)	Developer	64’	West R/W – 15’ SW/6’ B/11’ TL/ 11’ TL/6’ B/15’ SW – East R/W
Maryland Street at Power Station Park (D4D Figure 5.17.3)	Developer	64’ R/W + 16’ PAE	8’ PAE SW – West R/W – 2’ SW/13’ P/6’ B/11’ TL/ 11’ TL/6’ B/13’ P/2’ SW – East R/W – 8’ PAE & SW
Delaware Street – Power Station Park to 23rd Street	Developer	59’	West R/W – 19’ SW*/ 13’ TL / 13’ TL / 14’ SW – East R/W (*Sidewalk width may vary for parking bays)
Delaware Street at Shuttle Stop (D4D Figure 5.21.3)	Developer	59’	West R/W – 10’ SW / 10’ BS / 13’ TL / 12’ TL / 14’ SW – East R/W
Delaware Street – Humboldt Street to Power Station Park (D4D Figure 5.21.2)	Developer	59’	West R/W – 19’ SW / 14’ TL / 12’ TL / 14’ SW – East R/W
Delaware Street at Power Station Park (D4D Figure 5.21.4)	Developer	59’	West R/W – 19’ SW/13’ TL/12’ TL/8’ P/7’ SW – East R/W – 42’ Plaza
Georgia Street (D4D Figure 5.19.2)	Developer	70’	West R/W – 15’ SW*/ 8’ P/ 12’ TL/ 12’ TL/ 8’ P/ 15’ SW* – East R/W (*Sidewalk width may vary for AP bays)
Georgia Lane (with Station A) (D4D Figure 5.20.2 & 5.20.3)	Developer	39.5’	West R/W – 8’ SW/ 10’ TL/ 10’ TL/ 6’ B/ 5.5’ SW – East R/W
Georgia Lane (without Station A) (D4D Figure 5.20.4 & 5.20.5)	Developer	40’ R/W + 3’ PAE	West R/W – 8’ SW / 10’ TL / 10’ TL / 6’ B / 6’ SW – East R/W – 3’ PAE & SW
Humboldt Street (D4D Figure 5.18.3)	Developer	70’	North R/W – 15’ SW*/ 8’ P/ 12’ TL/12’ TL/ 8’ P/ 15’ SW* – South R/W (*Sidewalk width may vary for AP bays)

Table 8.1 Street and Alley Dimensions *(Continued)*

Street	Construction Responsibility	Right-of-Way and Public Access Area Width (feet)	Street Elements and Width (feet)
23rd Street – Illinois Street to PG&E Substation (D4D Figure 5.16.2)	Developer	80’	North R/W – 12’ SW/6’ B/4’ BF/8’ P/10’ TL/10’ TL/8’ P/4’ BF/6’ B/12’ SW – South R/W
23rd Street – PG&E Substation to Georgia Lane (D4D Figure 5.16.3)	Developer	80’	North R/W – 12’ SW/ 7’ B/ 6’ RB/12’ TL/ 13’ TL/ 8’ P/ 4’ BF/ 6’ B/ 12’ SW – South R/W
23rd Street (with Station A) – Georgia Lane to Louisiana Paseo (D4D Figure 5.16.4)	Developer	80’	North R/W – 0.8’ BE / 9.2’ SW/5’ B/4’ BF/8’ P/ 10’ TL/10’ TL/ 5’ B/28’ L – South R/W
23rd Street (without Station A) – Georgia Lane to Louisiana Paseo (D4D Figure 5.16.5)	Developer	80’ R/W + 5’ PAE	North R/W – 10’ SW / 5’ B / 4’ BF / 8’ P / 10’ TL / 10’ TL / 5’ B / 28’ L – South R/W
23rd Street – Louisiana Paseo to Maryland Street (D4D Figure 5.16.6)	Developer	52’ R/W + 5’ PAE	5’ PAE & SW – North R/W – 10’ SW/5’ B/4’ BF/8’ P/10’ TL/10’ TL/5’ B – South R/W – 28’ L
Illinois Street – Humboldt Street to 22nd Street (D4D Figure 5.25.1)	Developer (Remove and Replace East Sidewalk Zone Only)	80’	West R/W – 15’ SW / 9’P / 5’B / 11’ TL / 11’ TL / 5’ B / 9’ P / 15’ SW – East R/W – 33’ Plaza
22nd Street – Illinois Street to Georgia Street (D4D Figure 5.24.1)	Pier 70	66’	North R/W – 12’ SW / 5.5’ B / 11’ TL / 11’ TL / 5.5’ B / 9’ P / 12’ SW – South R/W
23rd Street – Maryland Street to Delaware (with bus boarding) (D4D Figure 5.16.7)	Developer	62’	North R/W – 12’ SW/ 5’ B/ 9’ BI/11’ BS/ 10’ TL/ 10’ TL/ 5’ B – South R/W – 4’ F
23rd Street – Maryland Street to Delaware (without bus boarding) (D4D Figure 5.16.8)	Developer	62’	North R/W – 12’ SW/ 5’ B/ 4’ RB/ 5’ BF / 11’ BL / 10’ TL/ 10’ TL/ 5’ – South R/W – 44’ L

Table 8.1 Street and Alley Dimensions *(Continued)*

Street	Construction Responsibility	Right-of-Way and Public Access Area Width (feet)	Street Elements and Width (feet)
Private Streets			
Delaware Street – North of Humboldt Street (D4D Figure 5.21.6)	Developer	40’	West R/W – 7’ SW/ 3’ DW/ 10’ TL/10’ TL/ 3’ DW/ 7’ SW – East R/W
Craig Lane (Without Loading) (D4D Figure 5.23.2)	Developer	30’ R/W + 4’ PAE	North R/W – 7’ SW/ 4’ LS/ 14’ TL/ 4’ LS/ 1’ SW – South R/W – 4’ PAE & SW
Craig Lane (With Loading) (D4D Figure 5.23.3 & 5.23.4)	Developer	30’ R/W + 4’ PAE	North R/W – 7’ SW / 8’ P/ 14’ TL / 1’ SW– South R/W – 4’ PAE & SW
Louisiana Street (D4D Figure 5.22.2)	Developer	40’	West R/W – 7’ SW /3’ DW/10’ TL/10’ TL/3’ DW/7’ SW – East R/W

Abbreviations

ROW	Right-of-Way	BI	Bus Boarding Island
TL	Travel Lane	BL	Bus Lane
SW	Sidewalk	L	Loading
B	Bicycle Lane	E	Easement
P	Parking / Loading	BF	Striped Buffer
BS	Bus / Shuttle Stop	RB	Raised / Curbed Buffer
DW	Detectable Warning / Bollards	LS	Landscape
C	Curb	PAE	Sidewalk in Public Access Area
F	Furnishing	AP	Accessible Parking
RB	Raised Buffer	BE	Building Encroachment

8.1.5 Bicycle Network

The proposed street grid will include a network of bicycle facilities providing connectivity to the existing and planned larger network of bicycle facilities within the vicinity of the Site. The project will construct the segment of the Blue Greenway along the Project waterfront providing a Class I bicycle facility along the Bay. The Project will also provide an important east / west linkage of bicycle facilities along 23rd Street from the waterfront to Illinois Street. The bicycle facilities within 23rd Street include a parking protected 5 to 6 foot wide westbound bicycle lane on the north side and a parking protected 5 foot wide bicycle lane that transitions (west to east) to a Class II bicycle lane along the south side of the street. Additionally, the proposed design for Maryland Street includes a north / south connection with 6 foot wide Class II bicycle lanes. Georgia Lane also provides a north bound 6 feet Class II bicycle lane. All other public streets will include travel lanes with sharrow markings providing Class III bicycle facility linkages throughout the street network. The bicycle facilities will be designed to provide safe cycling through the Project. See Figure 8.2 depicting the proposed bicycle facilities.

8.1.6 Transit Access

The Project is located in close proximity to both regional and local public transit services. A planned Muni bus line route has been accommodated in the proposed street framework design. The planned Muni line, currently referred to as Dogpatch 55, will be routed through Maryland, Humboldt, Delaware and 23rd Streets. See Figure 8.3 depicting this planned bus route. A terminal bus stop has been located along 23rd Street between Maryland and Delaware Streets. The proposed bus layover will accommodate two, 40-foot-long Muni buses and will provide a bathroom facility nearby for drivers. See the Buildings section of the D4D for the standards of the bathroom facility location within Block 12. The intersections within this route will be designed for Bus-45 turning movements. See Appendix F for the bus turning movements through the Project.

As part of the Project's proposed Transportation Demand Management Plan ("TDM"), the project includes implementation of a transit shuttle service, with minimum service of 15-minute intervals during weekday morning and evening peak periods. The shuttle service would provide access between the project site, the 22nd Street Caltrain station, and the 16th Street BART station. The shuttle service may or may not connect with the shuttle service to be provided under the Pier 70 Mixed-Use District project. The shuttle will use the planned terminal bus stop until the Muni line "Dogpatch 55" is operational, at which time the shuttle stop will move to its permanent location on Delaware Street adjacent to Block 8. Figure 8.4 presents the proposed transit shuttle plan in the project site vicinity and the permanent shuttle layover space location.

8.1.7 Parking and Loading

The proposed Project will provide approximately 2,622 off-street vehicle parking spaces. A centralized parking facility will be located at the intersection of Humboldt Street and Georgia Street and contain approximately 819 parking spaces. The remaining off-street parking spaces will be dispersed in podium parking structures on other development blocks. All parking will be accessory to principal uses. No off-street parking will be provided for proposed retail uses on the project site, except for the potential grocery store. Approximately 22 on-street passenger loading spaces will be provided along the internal streets and approximately 54 commercial delivery spaces will be provided, either through in-building loading docks or on-street loading zones along the internal streets. The remainder of the curb space not dedicated to off-street parking and loading will be divided into on-street parking and passenger loading spaces, including accessible parking and universal loading stalls. In total, the Project provides approximately 108 parking and loading spaces on-street.

All development blocks will allow – but not require – parking one level below-grade or parking within above-grade podium levels subject to the project's D4D controls. The project will provide car-share parking spaces, consistent with the project's D4D controls.

Class one bicycle parking spaces will be located either on the ground floor of each building or in the first level above or below ground floor, in locations compliant with the project's D4D controls. The proposed Project will include Class II bicycle parking spaces, all of which will be located in the right-of-way adjacent to each building or in the publicly accessible open space.

8.2 Street Design Considerations

8.2.1 Raised Street Crossings

The Project proposes to integrate raised street segments to provide additional traffic calming and pedestrian priority on Humboldt, Maryland, and Delaware Streets adjacent to the Power Station Park and Louisiana Paseo, and Georgia Lane. These zones are anticipated to have more intensive pedestrian activities related to the adjacent Park, plazas and outdoor retail areas. The objective of these raised street areas is to calm traffic traveling through this area to provide safe crossings for pedestrians encouraging the use of the park and open space amenities within this Project.

The raised street area will have transition areas in the street slope at the entry and exit of the raised street area that will be designed at a maximum of 5% slope. The curbs will

transition from full standard height to four inches though the transition areas. Within the raised street areas, specific crosswalk locations will be provided to designate where pedestrians have priority to cross. The vehicle travel zones will be delineated from pedestrian areas by the four-inch tall curbs. Additionally, vertical elements such as street trees or furniture will delineate between the pedestrian and vehicle zones. The raised street will be designed to meet the City's requirements for 100-year design storm and overland release. See Figure 8.5 depicting the proposed raised street crossing configuration.

8.2.2 Intersection Curb Extensions

The proposed street designs will include curb extensions at intersections within the Project. The curb extensions will enhance pedestrian safety and will be designed consistent with the San Francisco Better Streets Plan. The curb extensions will be designed to maximize the pedestrian space, while maintaining the required utility clearances and turning movement accommodations. See Figure 10.2 depicting the utility placements at the curb extension locations. Also, see Figure 8.8 for intersection geometry.

8.2.3 Sidewalk Easements

Public sidewalk easements will be provided at locations that vehicle accommodations, accessible ramps or parking stalls reduce the sidewalks to widths less than required by the San Francisco Better Streets Plan. These easements will provide safe passable sidewalk conditions and will be integrated with the open-space and building designs.

8.2.4 Fire Department Access

The proposed streets will be designed to accommodate turning movements of the City of San Francisco 57-foot articulated fire truck and the SFFD Engine, in accordance with the Subdivision Regulations and the California Fire Code. See Figure 8.11 depicting the fire access areas planned within the street network. The following is a summary of the fire access integrated into the street network to provide emergency and fire protection to the various development blocks and open spaces:

Type I Commercial, R&D, Office and Residential – *Blocks 1A, 2, 3, 5A, 5B (Parking Garage), 7B, 11, 12 and 15*

- 26' wide unobstructed fire access adjacent to 50% of the building street frontage, including 100' to 200' (200' preferred) staging area at the building lobby.
- 26' fire access area is to be positioned such that the truck ladder turn table is 15' to 30' from building.

Type III A Residential – *Blocks 1B, 4, 7A, 8, 13A, 13B, 13C and 14*

- 26' wide unobstructed fire access adjacent to 50% of the building street frontage, including 150' to 200' (200' preferred) staging area at the building lobby.
- 26' fire access area is to be positioned such that the truck ladder turn table is 15' to 30' from building.

Type V Residential and Hotel – *Block 9*

- 26' wide unobstructed fire access adjacent to 50% of the building street frontage, including 150' to 200' (200' preferred) staging area at building lobby.
- 26' fire access area is to be positioned such that the truck ladder turn table is 15' to 30' from building.
- Aerial ladder truck access (26' wide) to all bedroom egress windows over 40'.

Unit 3

The feasibility of adaptively reusing Unit 3 is under evaluation. Accordingly, multiple scenarios are being studied. The fire access requirements for each scenario are as follows:

- Unit 3 & Block 9 considered as 1 building by DBI, Type I construction -
  - 26' wide unobstructed fire access adjacent to 50% of the building street frontage, including 100' to 200' (200' preferred) staging area at the building lobby.
  - 26' fire access area is to be positioned such that the truck ladder turn table is 15' to 30' from building.

- Unit 3 Type I & Block 9 Type IIIA (2 buildings)
  - 26' wide unobstructed fire access adjacent to 50% of the building street frontage, including 100' to 200' (200' preferred) staging area at the lobby for each building.
  - 26' fire access area is to be positioned such that the truck ladder turn table is 15' to 30' from building.

Humboldt Plaza

- Provide 26' wide unobstructed fire access for 150' extending from intersection with Delaware Street.
- Provide 26' wide, 100-150 feet long staging area at the building lobby of Building 4 and 9 along Humboldt Plaza.
- Provide 20' wide emergency access extending to and along waterfront.

Louisiana Street

- If Block 1 is comprised of 2 buildings, 1A and 1B, provide 26' wide unobstructed fire access for 150' extending from intersection with Humboldt Street.
- Provide 26' wide 100-150 feet long staging area at the Building 1B and 2 lobbies along Louisiana Street.
- Bollards separating the pedestrian zones from the travel way are acceptable to be placed within the 26' wide fire access area.
- Provide 20' wide emergency access extending to Craig Lane.

Delaware Street *(North of Humboldt Street)*

- Provide 26' wide unobstructed fire access for 150' extending from intersection with Humboldt Street.
- Provide 26' wide 100-150 feet long staging area at the Building 4 lobby along Delaware Street.
- Bollards separating the pedestrian zones from the travel way are acceptable to be placed within the 26' wide fire access area.
- Provide 20' wide emergency access extending to Craig Lane.

Craig Lane

- One way 14' wide alley is acceptable and not required for fire access.
- Provide access for emergency vehicles (engine and ambulances) to make turns onto and from Craig Lane.

Truck Turning Requirements

- Truck turning templates shall be provided demonstrating the SFFD aerial ladder truck and engine can adequately maneuver through the proposed intersections.
- The truck and engine are allowed to turn into the opposing travel lane so long as a separation from the truck to the opposing curb of 7' minimum is maintained.

Unobstructed Width

- The required unobstructed width for fire department access areas assumes that on-street parked cars only utilize 7' from the adjacent curbs.

See Appendix H including the Fire Access Criteria Memorandum outlining this criteria's application within the project and as approved by San Francisco Fire Departments. Also, see Appendix G depicting the fire aerial truck and engine turning movements within each intersection.

8.2.5 Large Vehicle Access

The proposed street network will accommodate commercial trucks and tractor trailer trucks in accordance with Better Streets Plan.

The public streets are designed for SU-30 vehicles, including Maryland, Humboldt, Georgia and Delaware Streets. Vehicles accessing the site up to the size of WB-40 can be accommodated within the public streets.

The streets and intersections along the bus route are designed for the Bus-45 vehicle.

23rd Street is a mixed-use / industrial street type and is designed for WB-40 vehicles.

Additionally, vehicles accessing the site up to the size of a WB-67 can be accommodated on a limited route to access Blocks 1, 5 and 13. A Transportation Program Manager will manage conflicts and reasonably accommodate truck deliveries. See Appendix E depicting the large vehicle turning movements at each intersection.

Georgia Lane, Craig Lane, Louisiana Street and Delaware Street north of Humboldt Street, are designed for passenger vehicles and can accommodate SU-30 vehicles.

8.2.6 Universal Access Parking

The proposed streets will be designed with Universal Passenger Loading Zones and Accessible Parking Zones at select locations. The locations of these facilities will be distributed throughout the Project to provide convenient access to buildings and open spaces.

The Universal Passenger Loading zones will be curbside stalls limited to five-minute stops per SFMTA regulations. Each universal loading stall will be universally accessible and American Disabilities Act ("ADA") compliant. These stalls will be 20-feet long, have adjacent sidewalk with a 9' minimum throughway clear of obstacles with a loading area and SFDPW standard curb ramp.

On-street accessible parking stalls will be provided in accordance with ADA regulations and CBC Chapter 11B requirements (Table 11B-208.2). The accessible stalls will be generally located near intersections or access points to buildings and open space areas. These stalls will be 20-feet long, have signage and striping for an accessible stall, have adjacent sidewalk clear of obstructions, a 10-foot loading area at the rear with a SFDPW standard curb ramp. See Figure 8.8 depicting the typical configuration of these universal loading and accessible stalls.

8.2.7 22nd Street and Georgia Street Intersection

Georgia Street is proposed to intersect with 22nd Street. The slope of 22nd Street at this intersection is approximately 3%. The cross slope of Georgia Street will need to transition to a super-elevated condition as it approaches this intersection. The proposed intersection configuration, grading and sight distances are depicted on Figure 8.6 and 8.7.

8.2.8 Driveways

Driveways and building openings dedicated to parking and loading access shall be minimized. Entrances for off-street parking and off-street loading shall be combined where possible. The placement of parking and loading entrances should minimize interference with street-fronting active uses and with the movement of pedestrians, cyclists, public transit, and autos. Off-street parking and loading entrances shall be located to minimize the loss usable curb space. Driveway for grocery store loading may require curb cut of up to 53 feet.

8.2.9 Street Pavement, Curb and Gutter and Sidewalk Sections

The proposed public streets will be constructed consistent with the City standard structural section consisting of eight inches of Portland cement concrete and a two-inch asphalt concrete wearing surface. 23rd Street will be reconstructed with the City standard structural section. Pavement within Illinois Street will be replaced as needed to address utility trenching completed with the Project.

Alternative paving materials and sections such as Class II aggregate base, decorative asphalt and concrete paving, pervious pavers and porous paving may be used if approved by the SFDPW. The public streets, including City standard curbs, gutters and sidewalks, will be maintained by the SFDPW. Please see Figure 8.10 depicting the intended pavement surfaces for the various streets.

8.2.10 Existing Infrastructure

The existing infrastructure within the Project site depicted on Figure 4.2 will limit the allowed locations of streetscape landscaping, street trees, street furniture and signage on 23rd Street and Humboldt Street (west of Block 5).

8.2.11 Street Lighting

The Project street lighting system will be designed and constructed by the Developer within the proposed streets. The proposed street lighting will comply with the City of San Francisco standards.

8.2.12 Traffic Control and Signalization

The Project will design and construct traffic signals at the intersections of 23rd Street / Illinois Street and Humboldt Street / Illinois Street, in accordance with SFMTA standards, and subject to SFMTA review and approval.

8.3 Maintenance and Street Acceptance

The public streets will be maintained by the SFDPW. The Developer will be responsible for the maintenance of the public streets within the Project until such time as they are accepted by the City for maintenance and liability purposes.

Upon acceptance of the new and improved public streets by the City, responsibility for the operation and maintenance of the roadway and streetscape elements will be designated as defined in the City of San Francisco Municipal Code.

The private streets will be maintained by a Project Master Association or another entity created by the Developer to manage the long-term responsibility for the operation and maintenance of the private streets.

8.4 Phasing of Improvements

The proposed street system will be constructed in phases as depicted in the phasing plan, see Figure 1.3. Each Phase will connect to the existing streets as close to the perimeter of that Phase area as possible while maintaining safe access to the Project and surrounding areas. Repairs and or replacement of existing improvements will be made as necessary to serve the Phase.

The Phased Infrastructure may include deferring sidewalk and street planting zones until the building construction on adjacent Development Parcels is completed. Construction of each proposed Development Parcel and associated Phased Infrastructure may impact site accessibility. During construction of each Development Parcel and associated Phased Infrastructure, interim access shall be provided and maintained for active utility access and emergency vehicles, subject to San Francisco Fire Department ("SFFD") requirements, as necessary. Within active streets to remain open, pedestrian access shall be maintained on at least one side where adjacent to an active construction area.

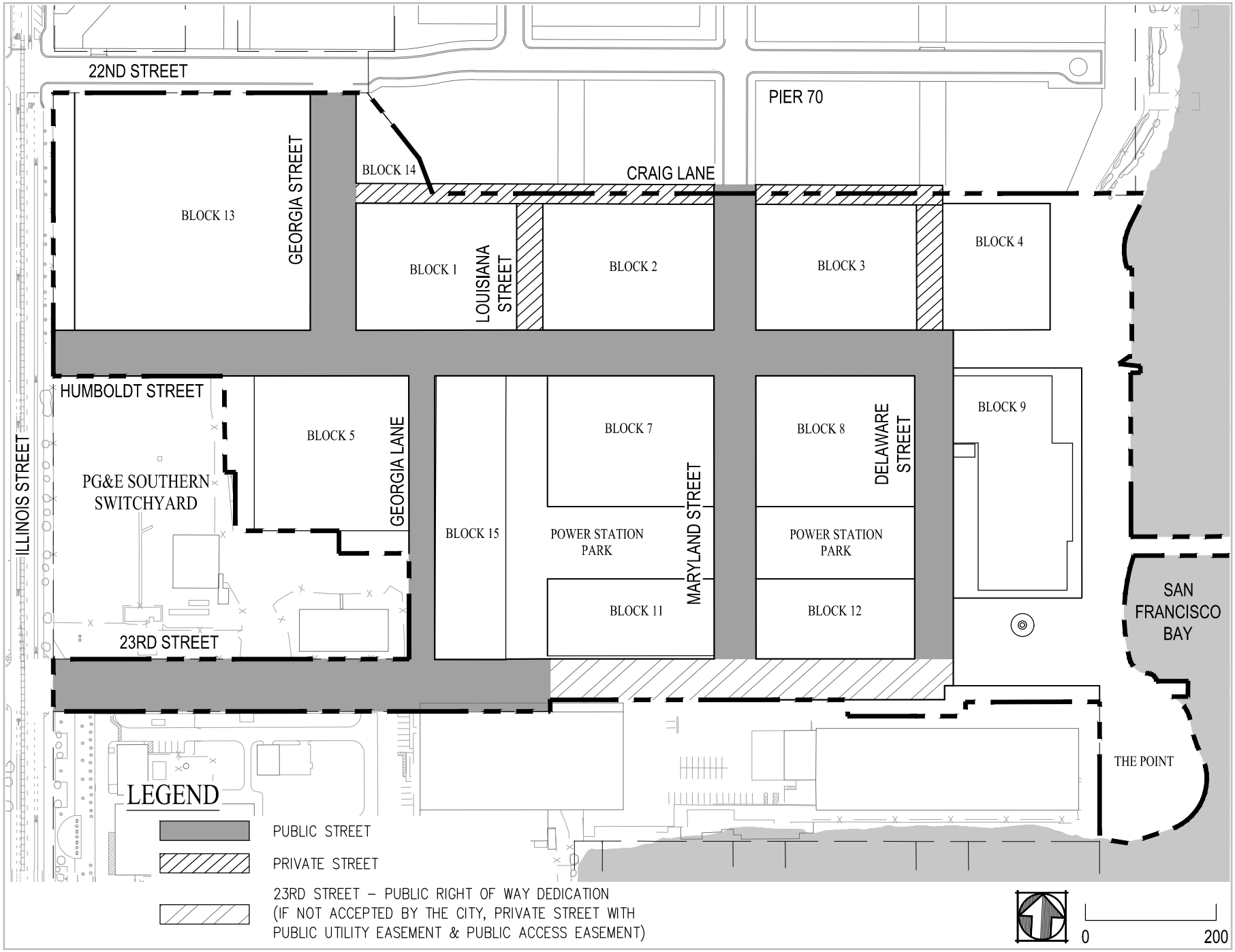


Figure 8.1 Proposed Street System

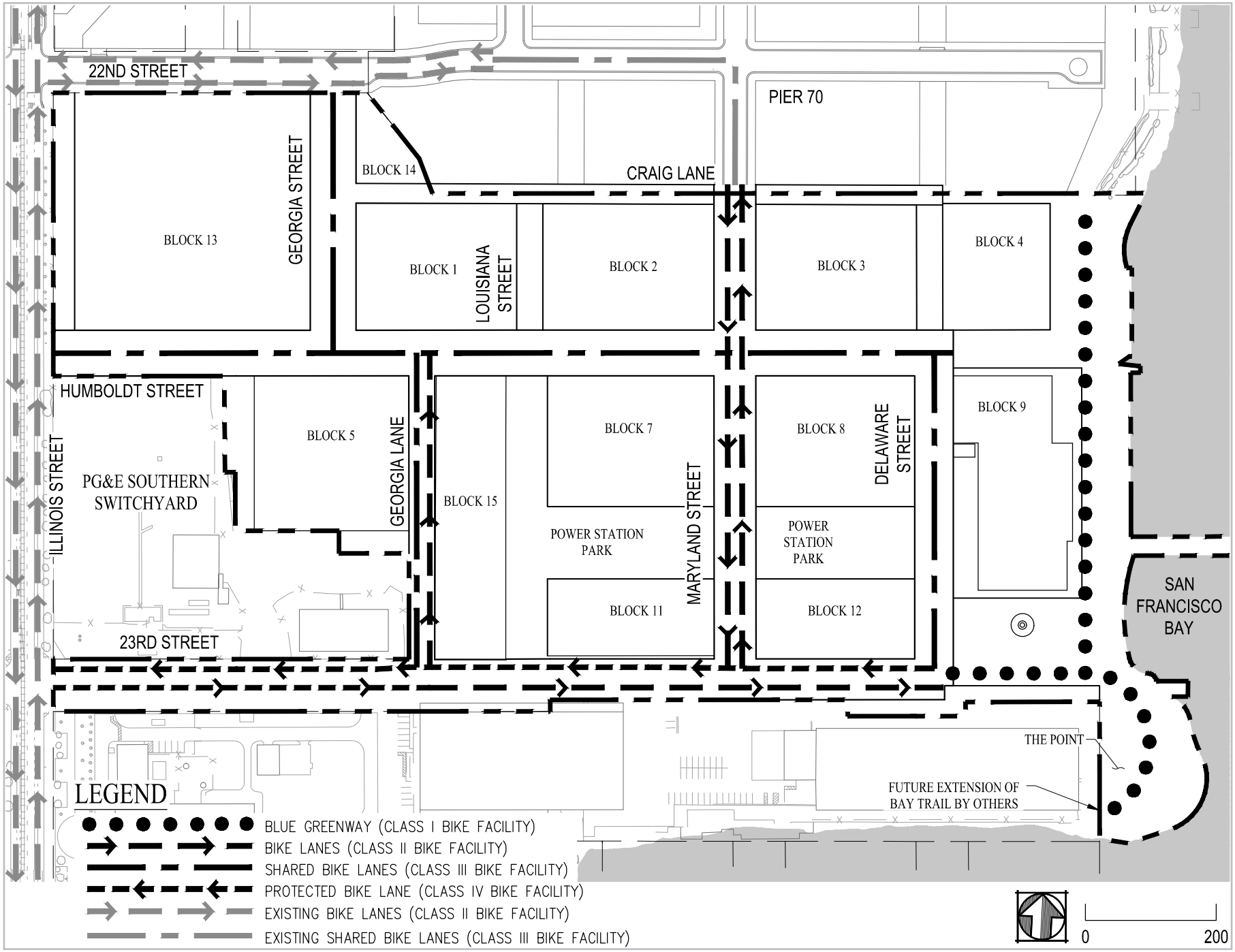


Figure 8.2 Proposed Bike Facilities

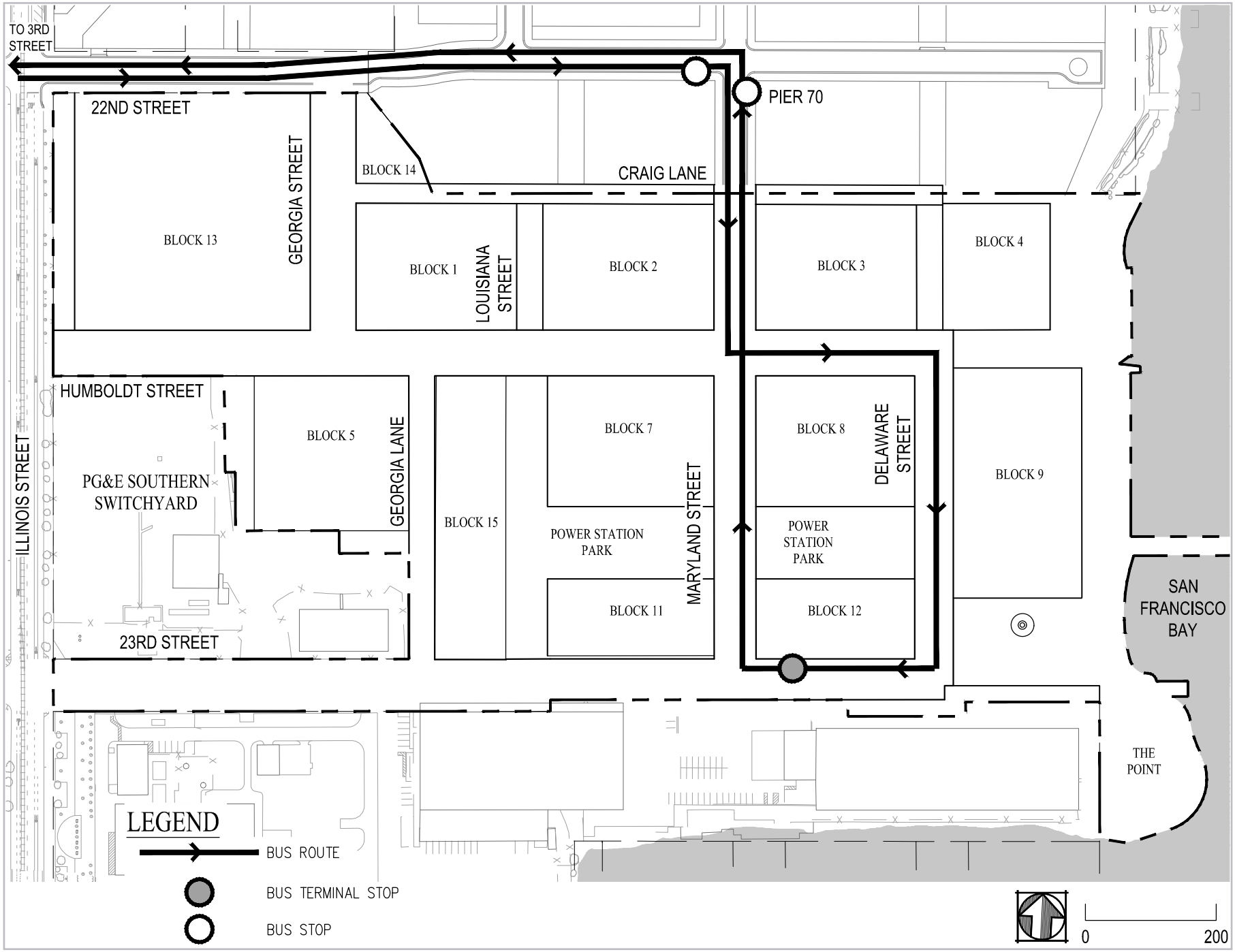


Figure 8.3 Planned Bus Route

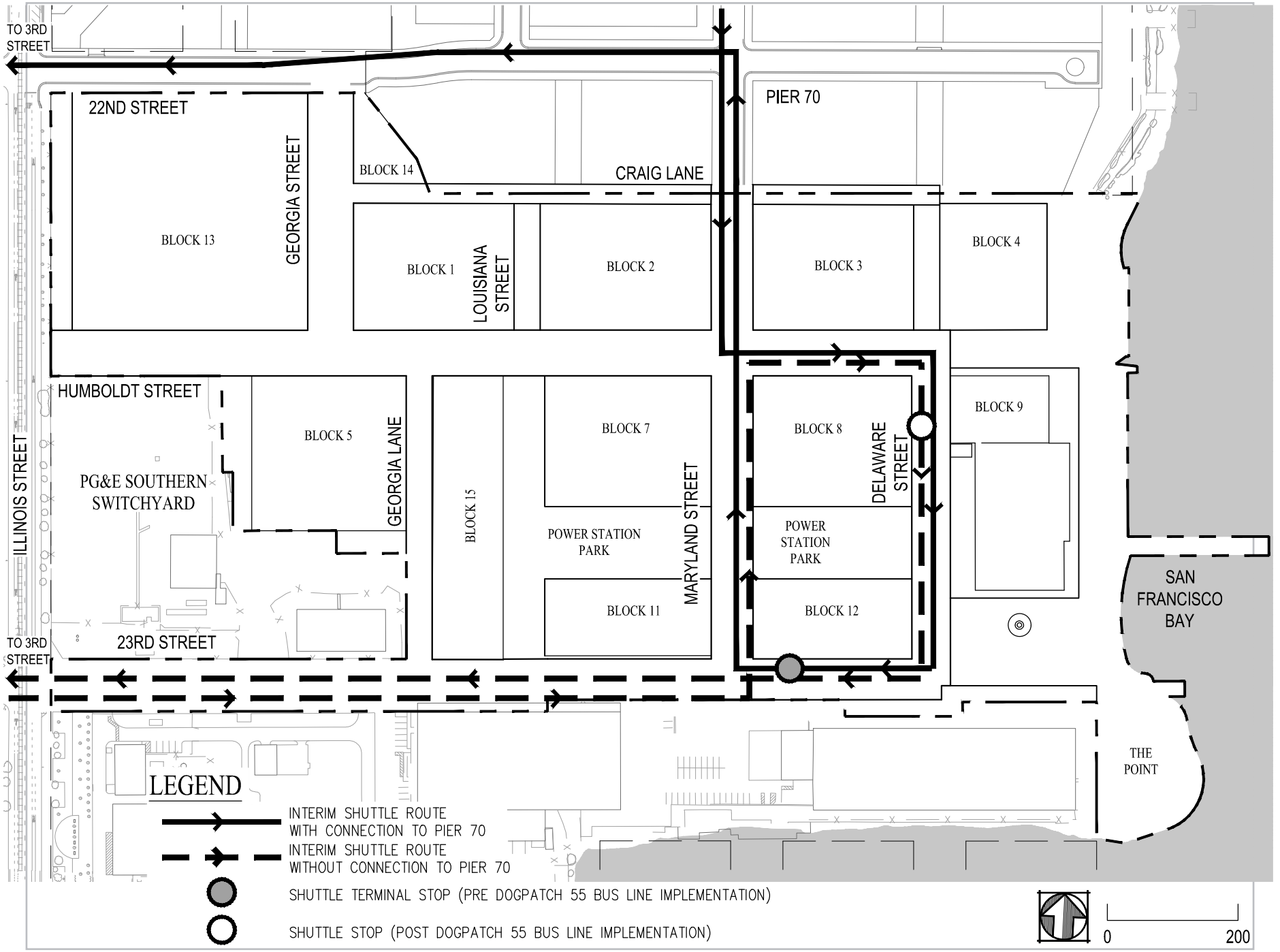


Figure 8.4 Planned Interim Shuttle Route

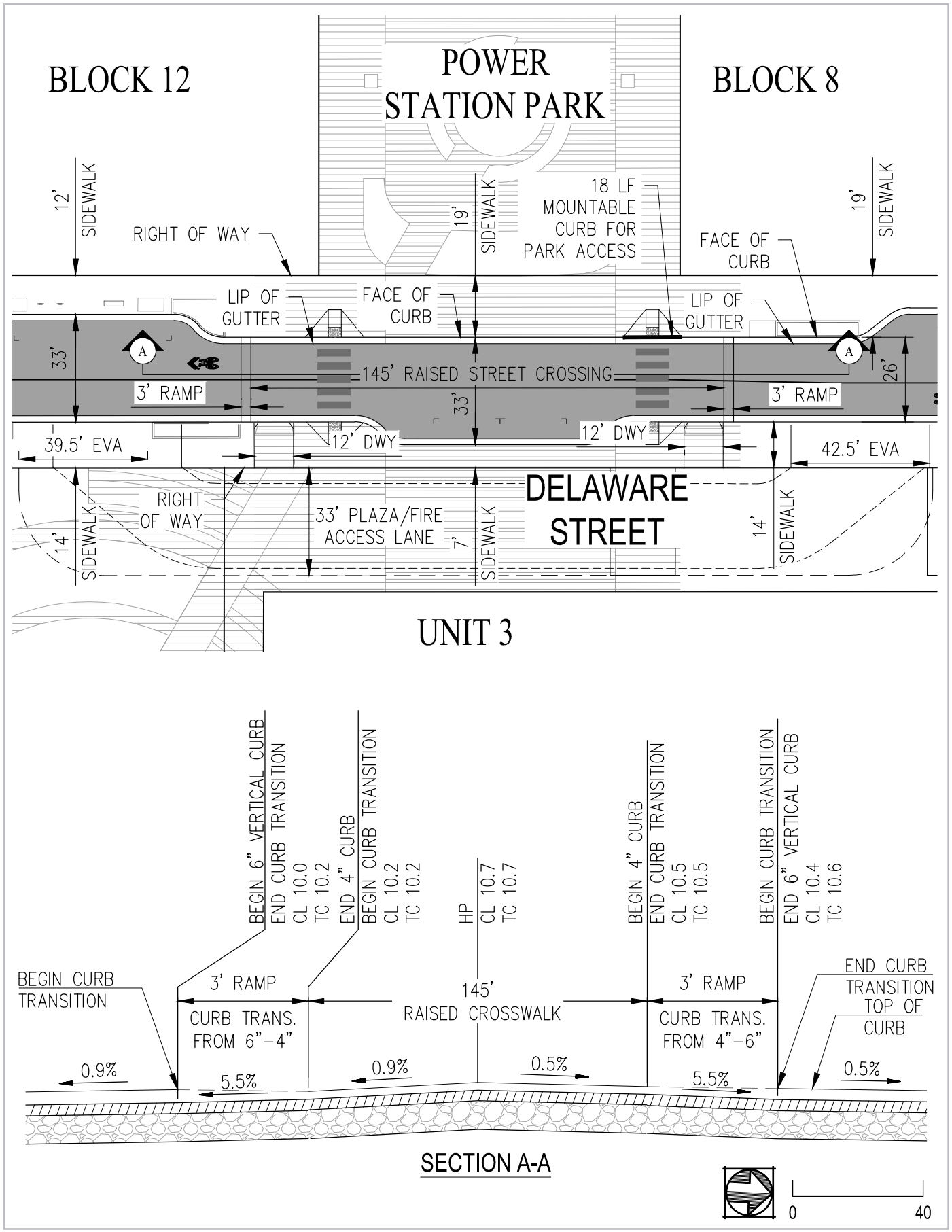


Figure 8.5 Raised Street Crossings – Delaware Street

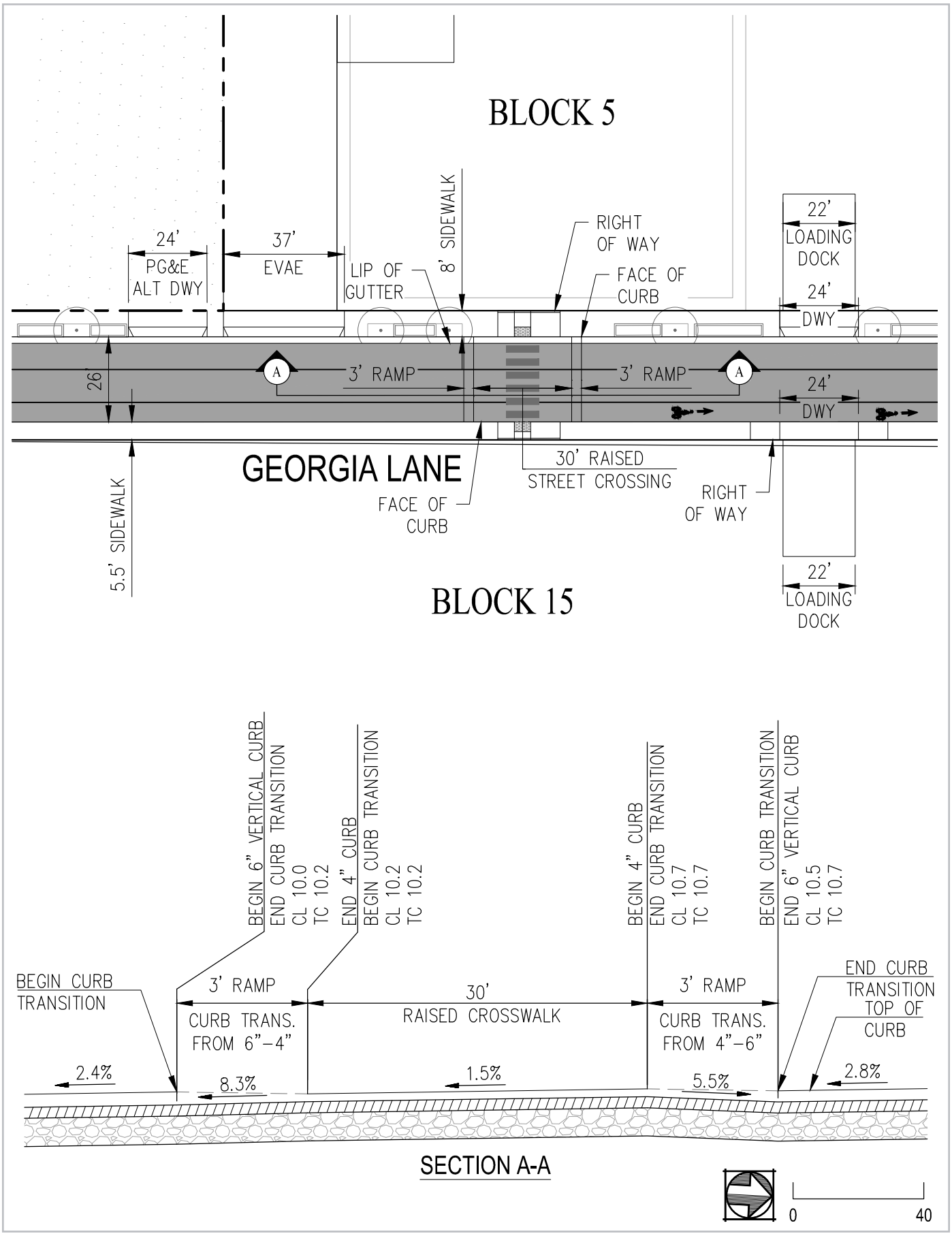


Figure 8.5 Raised Street Crossings – Georgia Lane

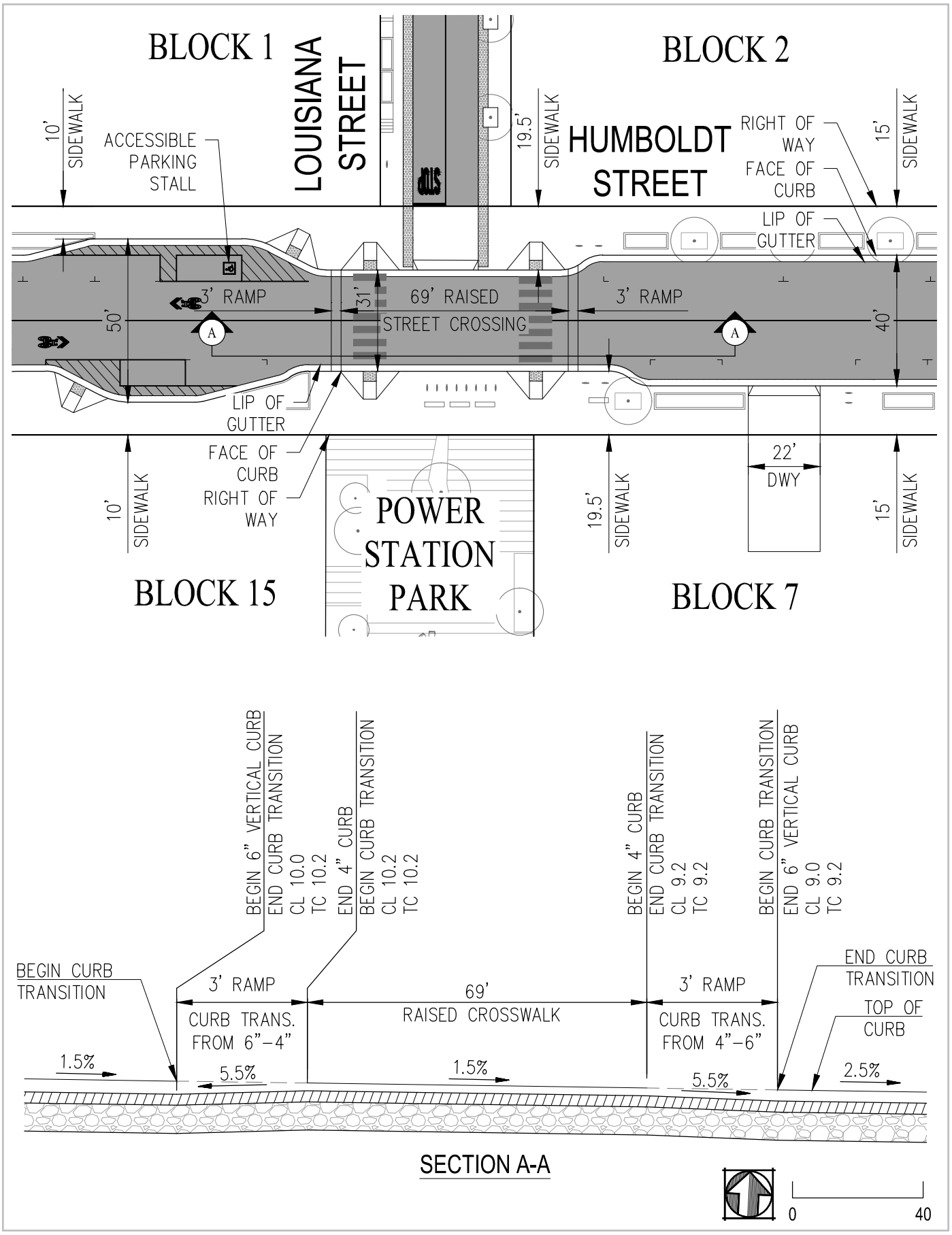


Figure 8.5 Raised Street Crossings – Humboldt Street

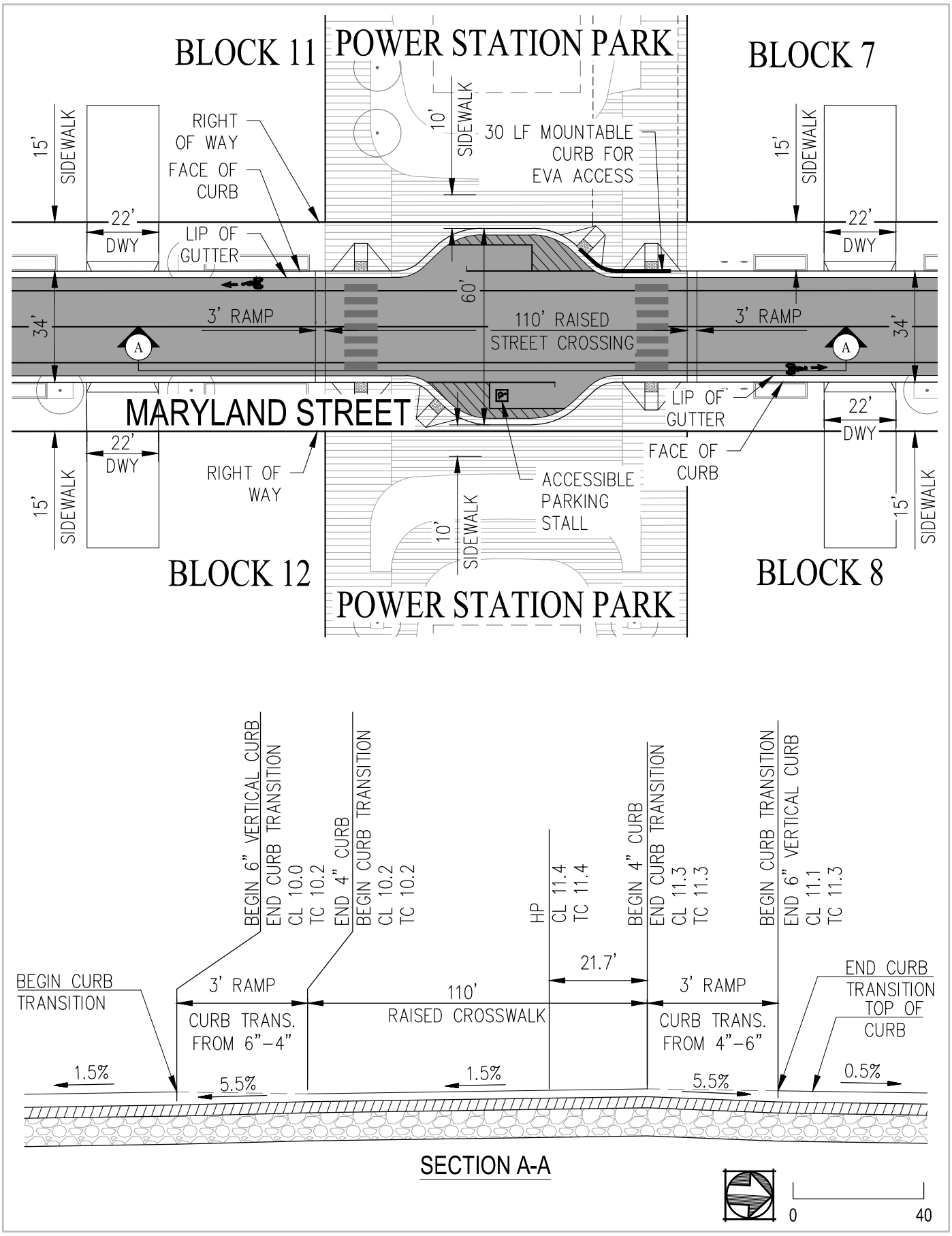


Figure 8.5 Raised Street Crossings – Maryland Street

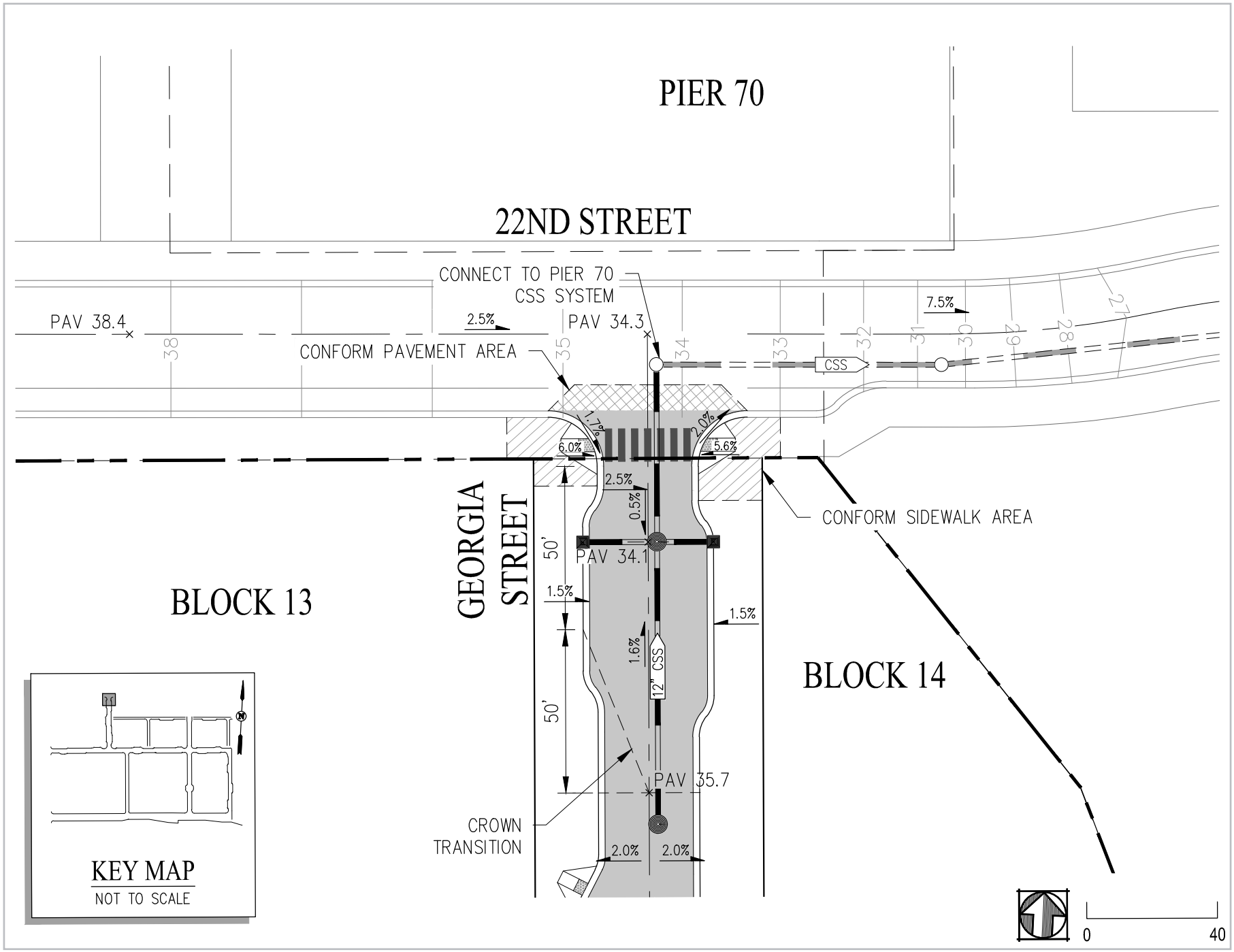


Figure 8.6 22nd Street & Georgia Street Intersection Preliminary Grading

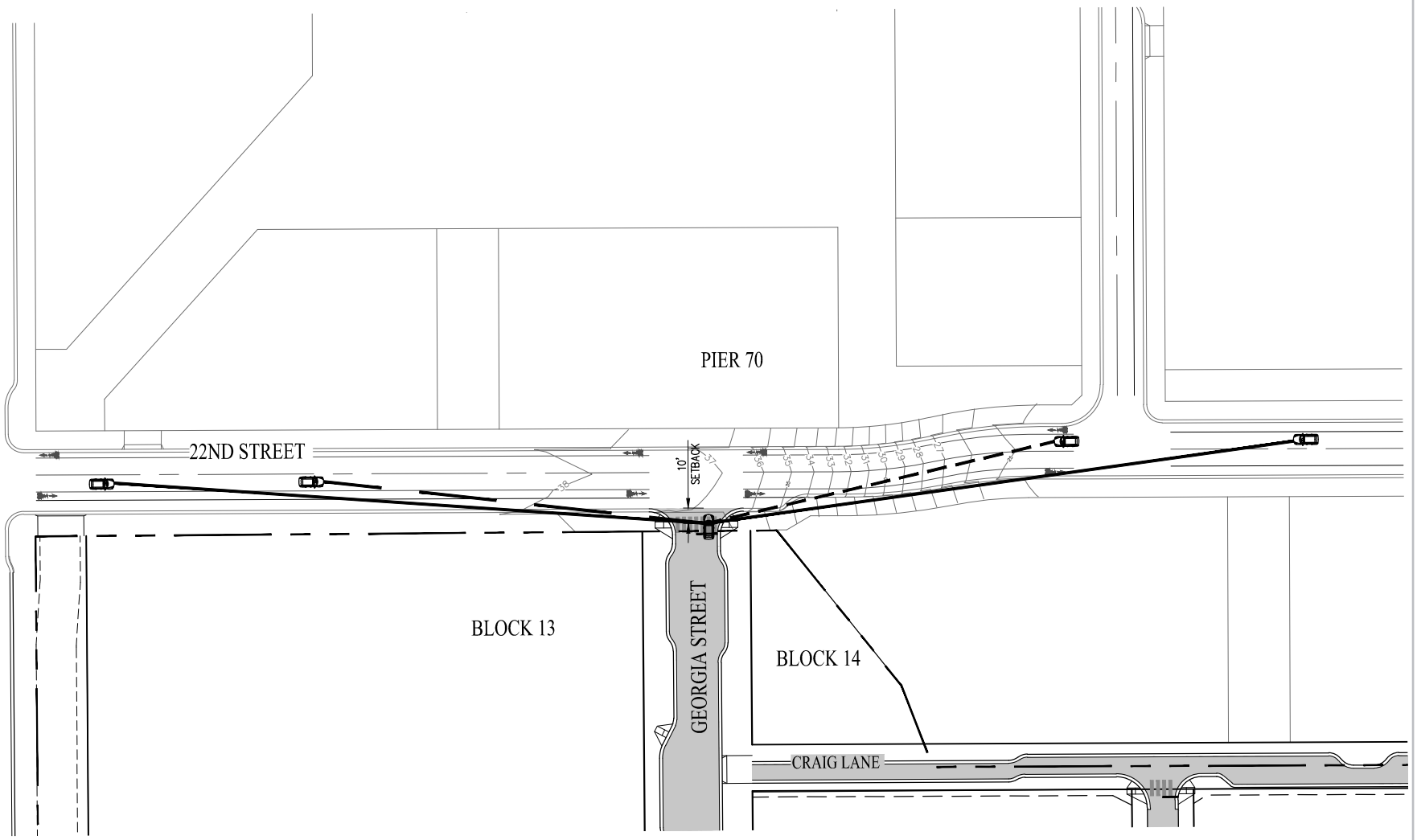


Figure 8.7 22nd Street & Georgia Street Intersection Sight Distances

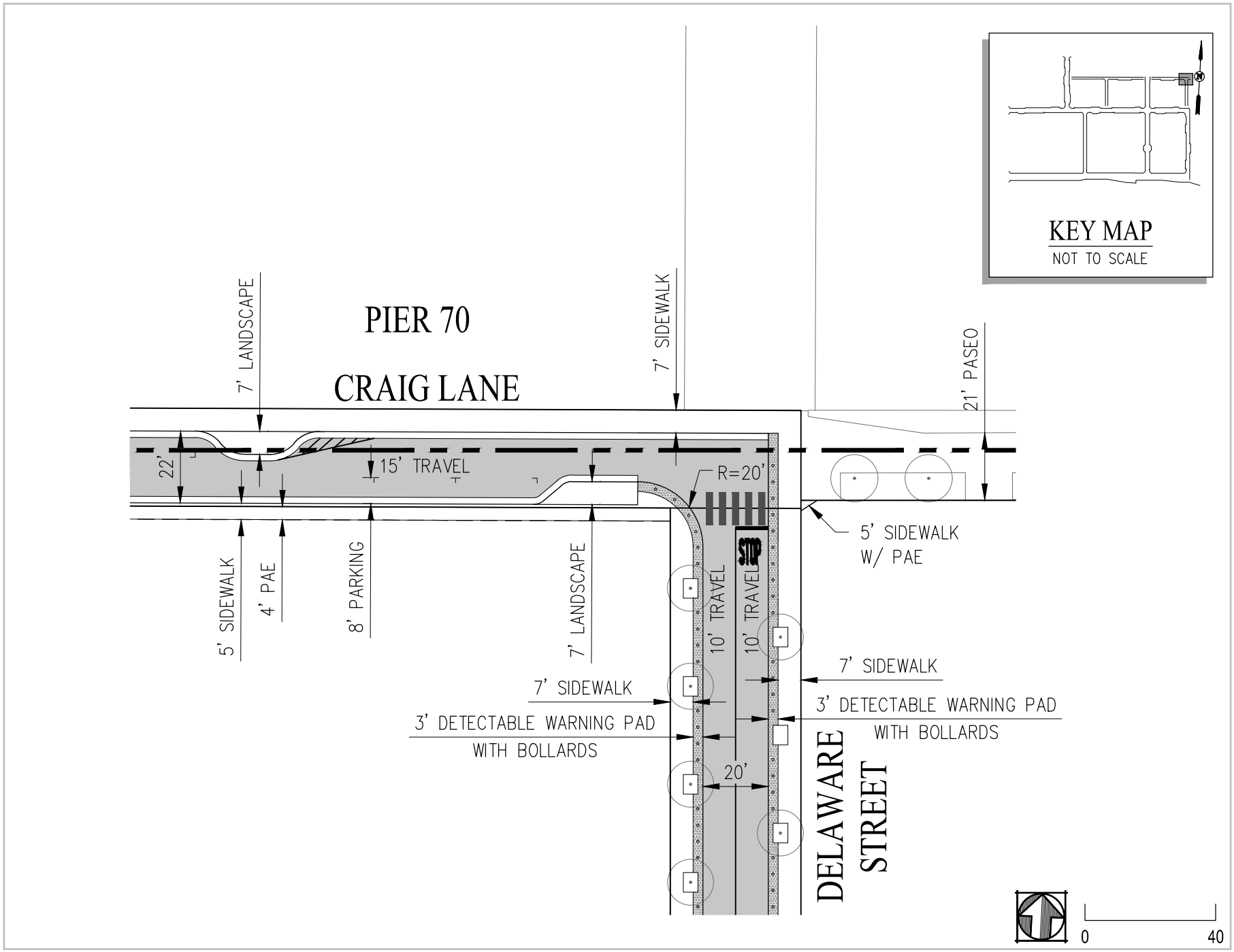


Figure 8.8 Intersection Geometry (Craig Lane & Delaware Street)

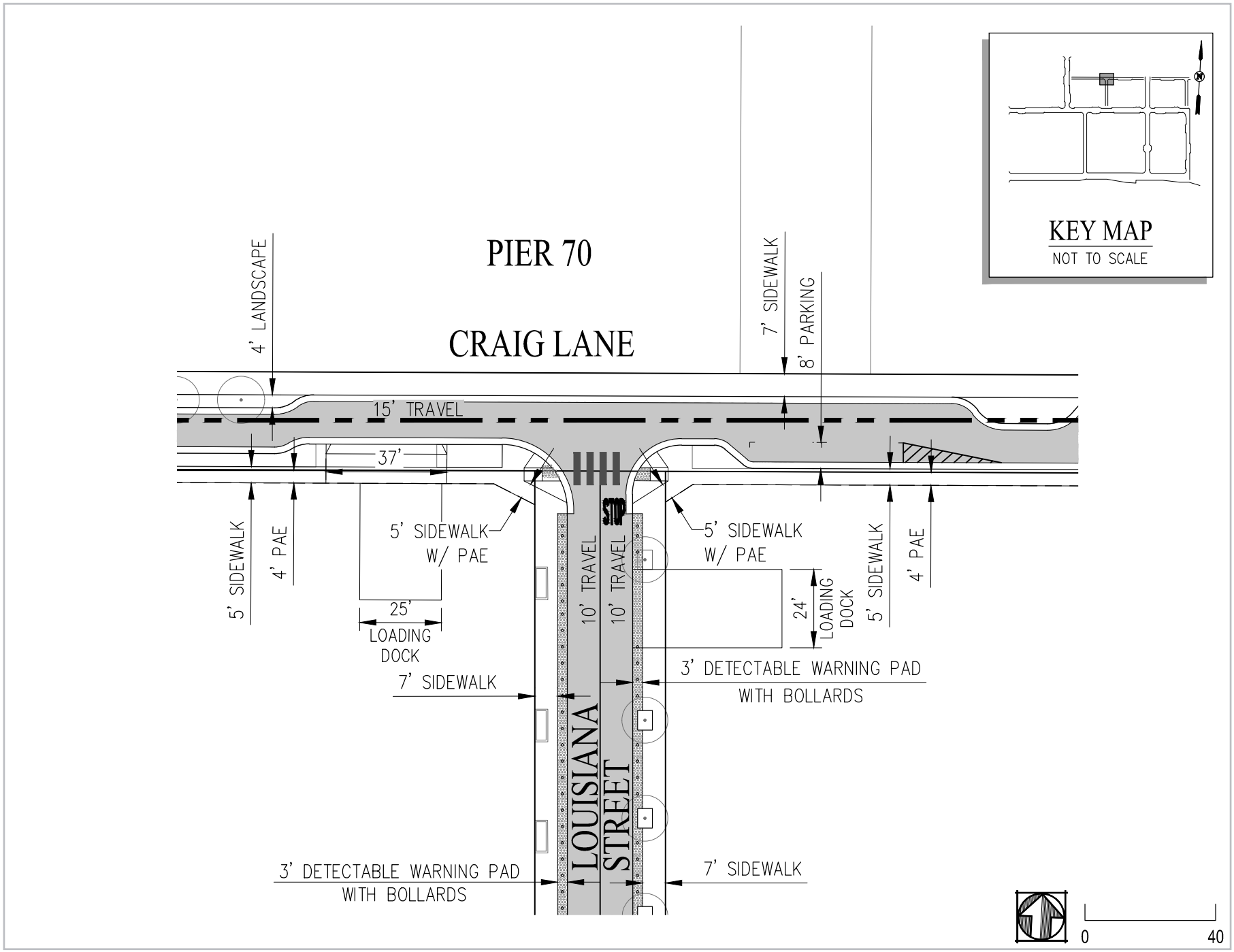


Figure 8.8 Intersection Geometry (Louisiana Street & Craig Lane)

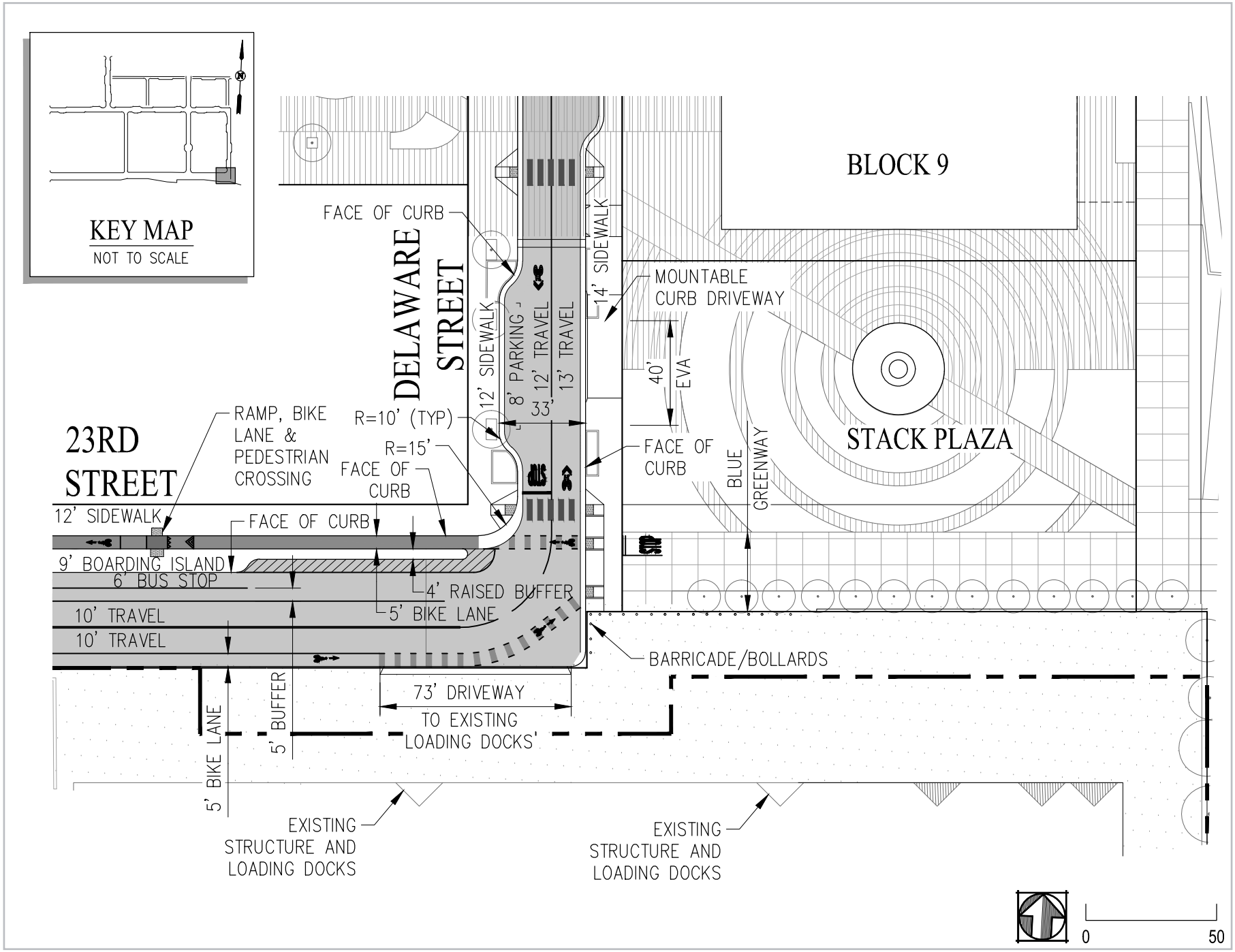


Figure 8.8 Intersection Geometry (23rd Street & Delaware Street)

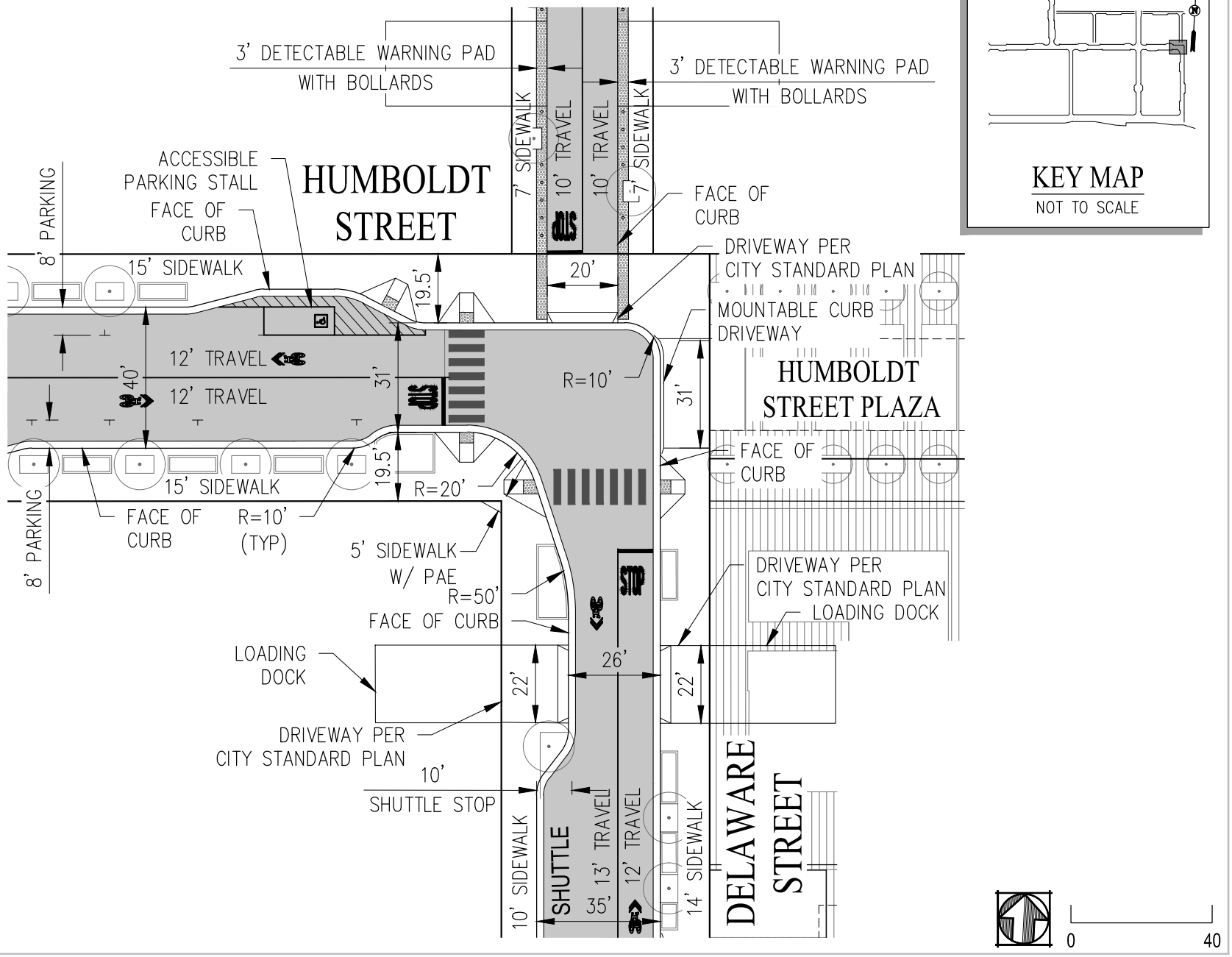


Figure 8.8 Intersection Geometry (Delaware Street & Humboldt Street)

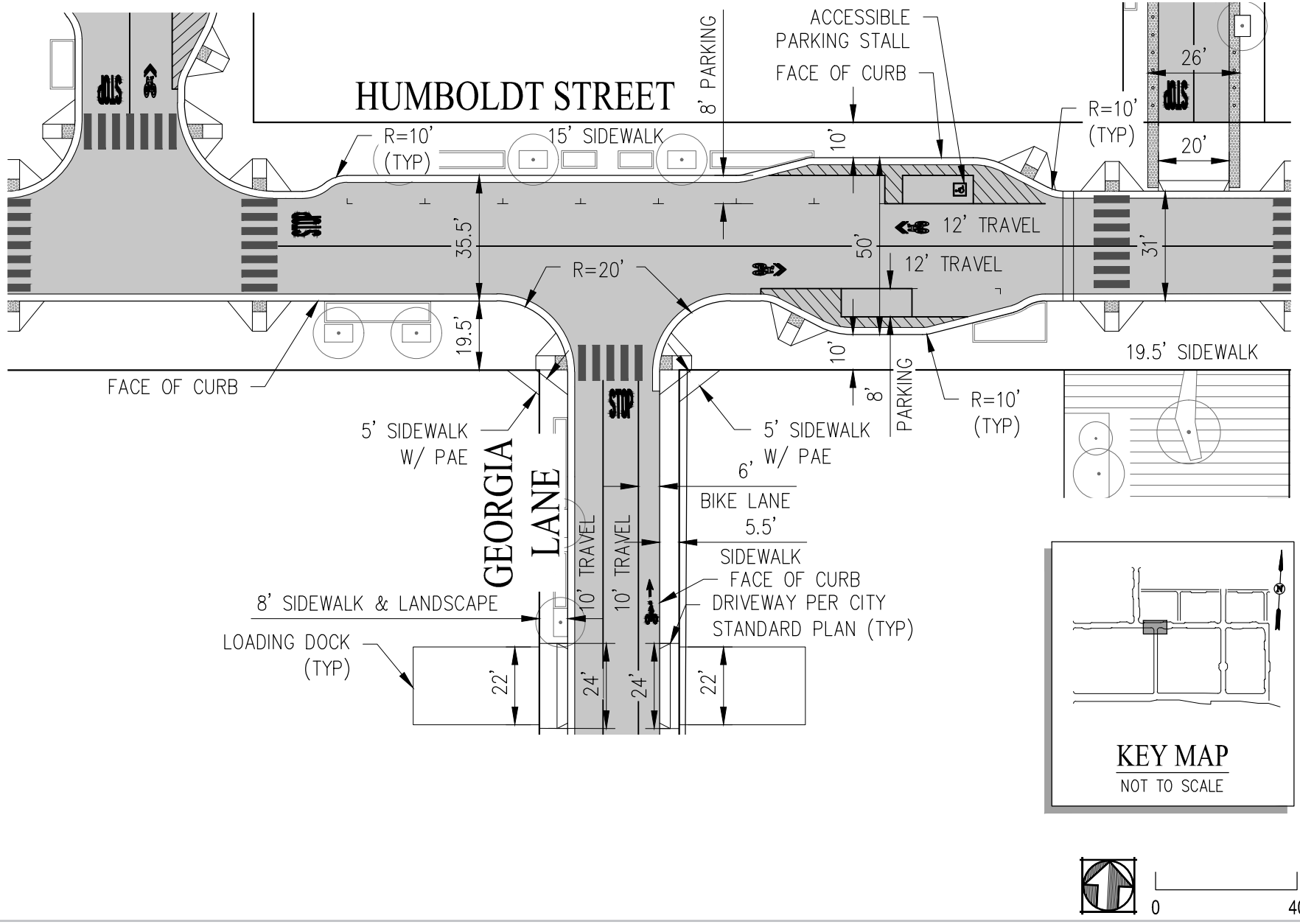


Figure 8.8 Intersection Geometry (Georgia Lane & Humboldt Street)

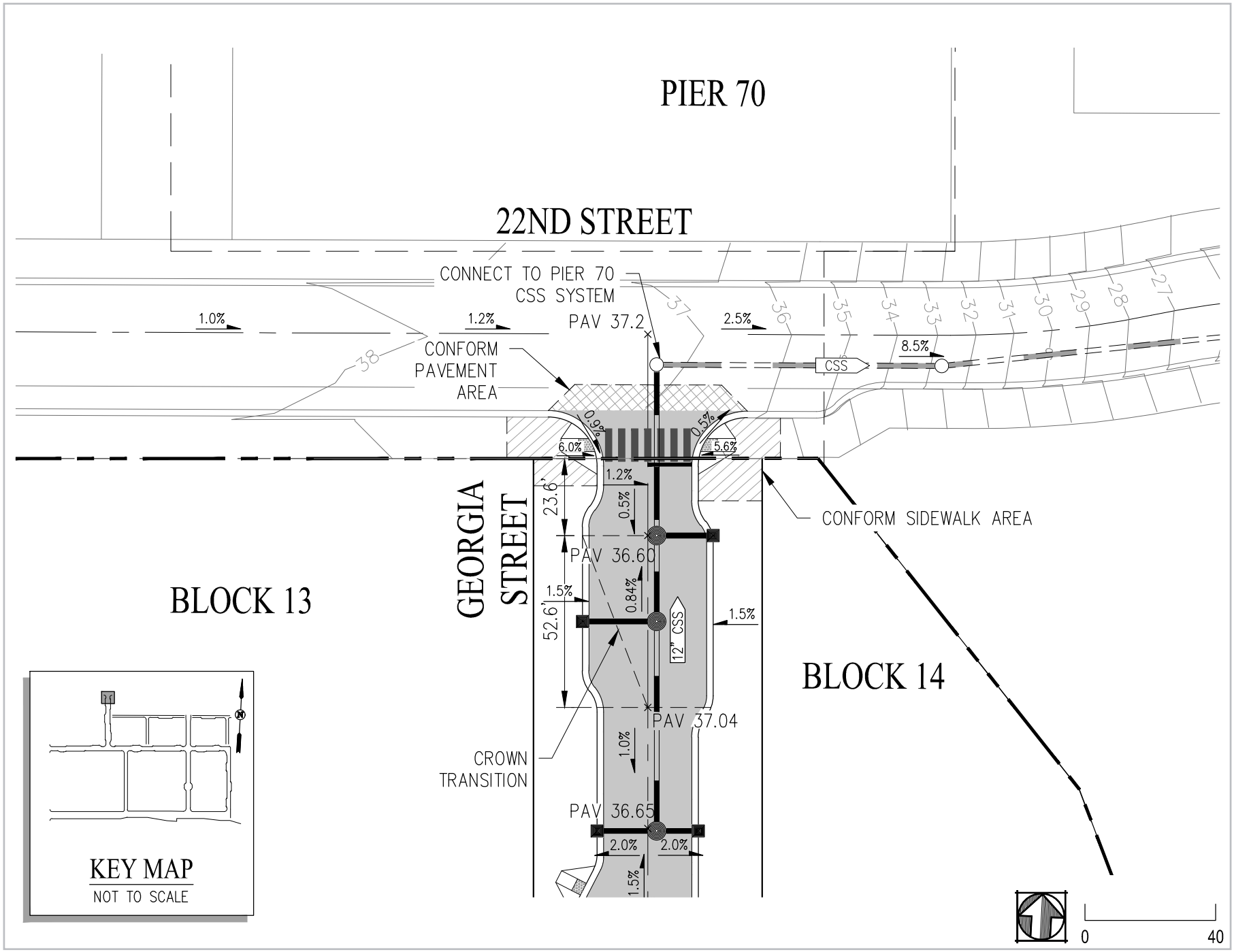


Figure 8.8 Intersection Geometry (Georgia Street & 22nd Street)

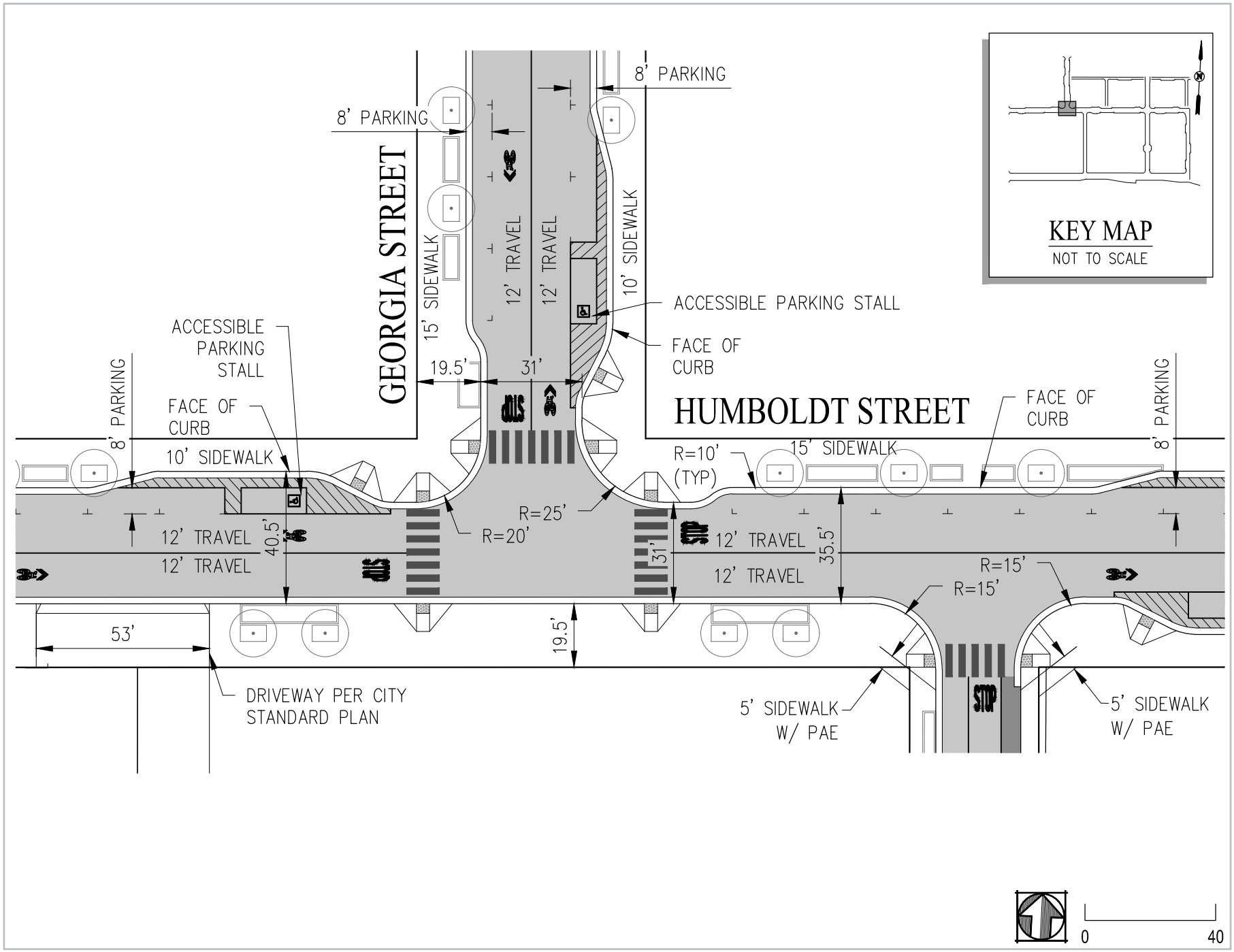


Figure 8.8 Intersection Geometry (Georgia Street & Humboldt Street)

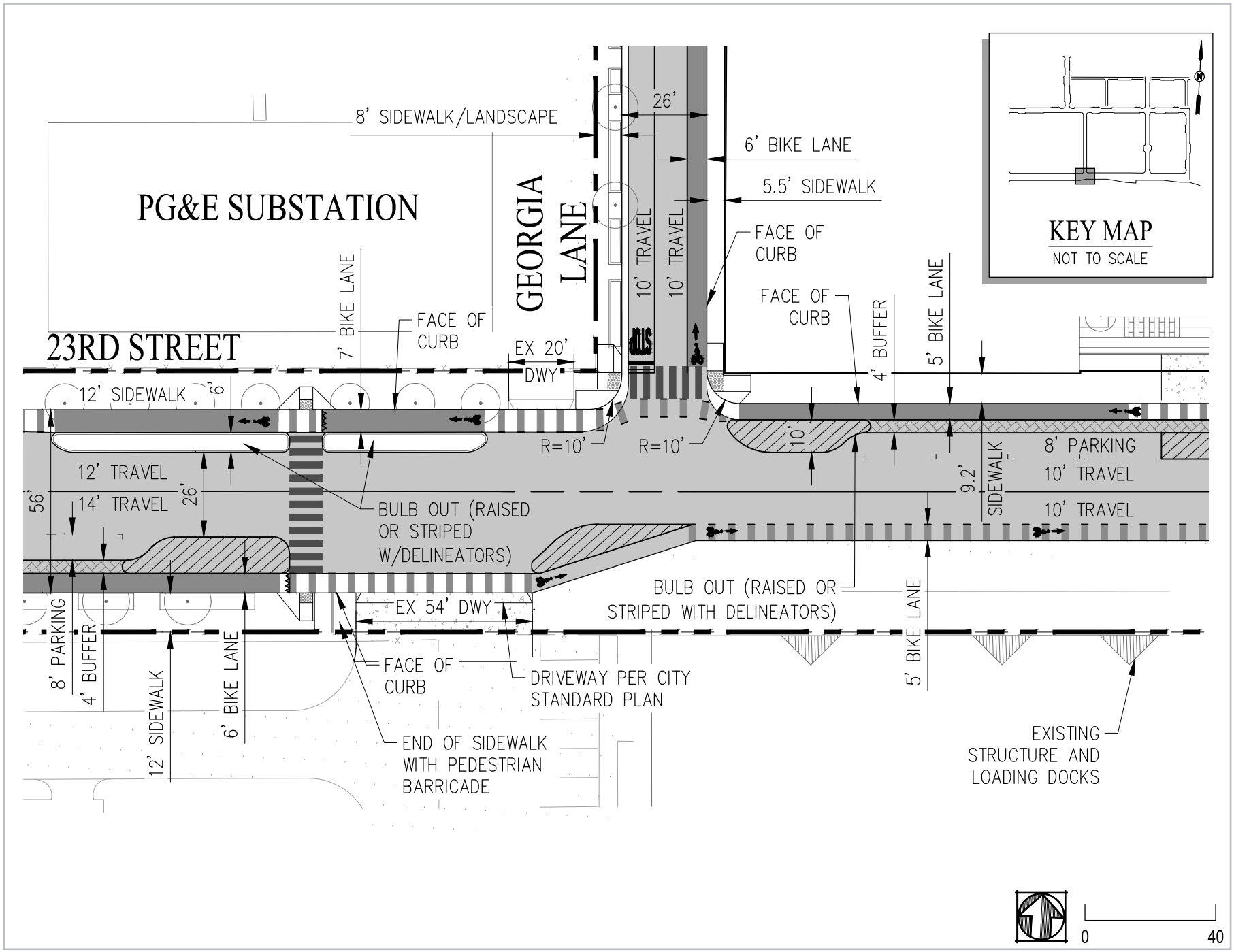


Figure 8.8 Intersection Geometry (23rd Street & Georgia Lane)

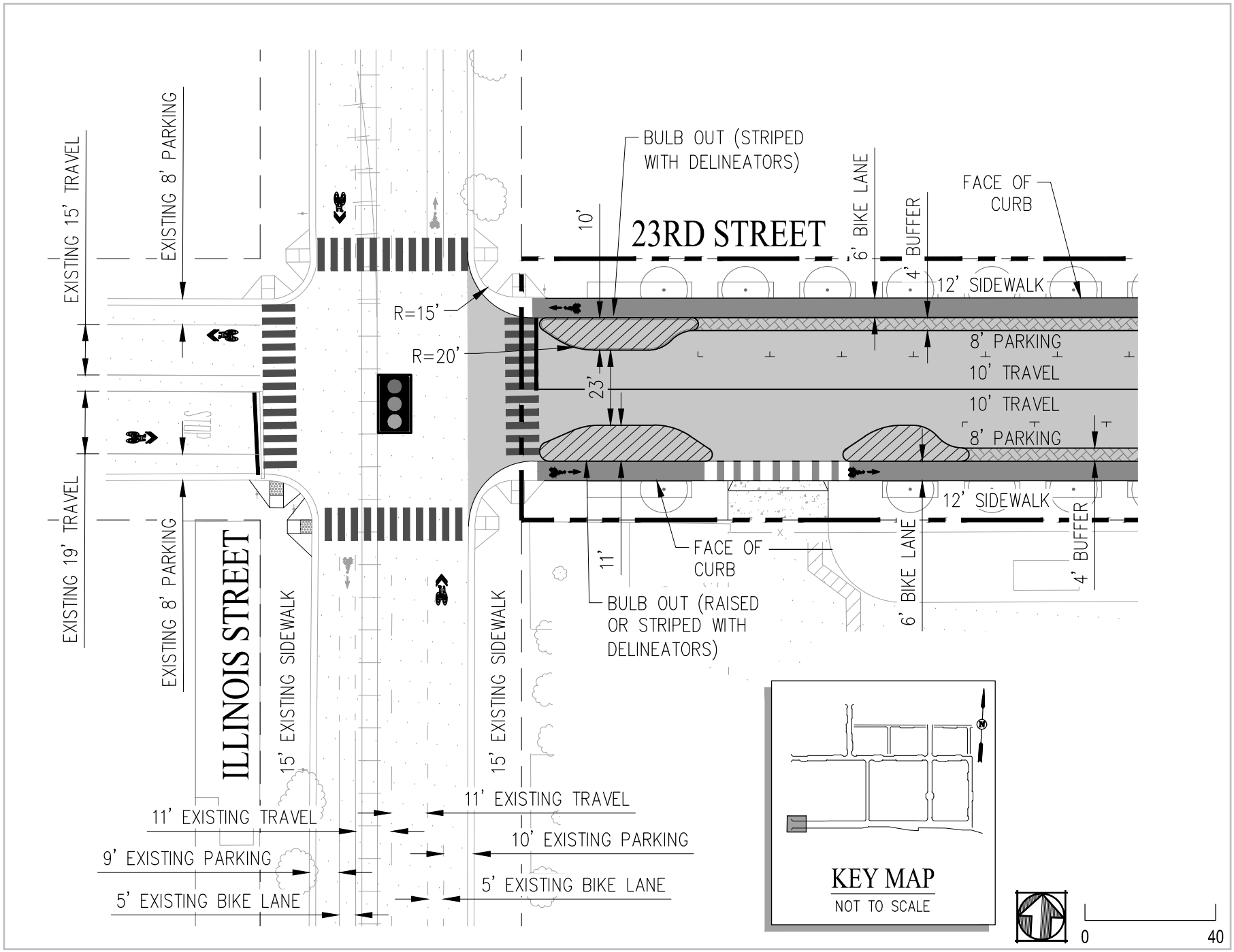


Figure 8.8 Intersection Geometry (Illinois Street & 23rd Street)

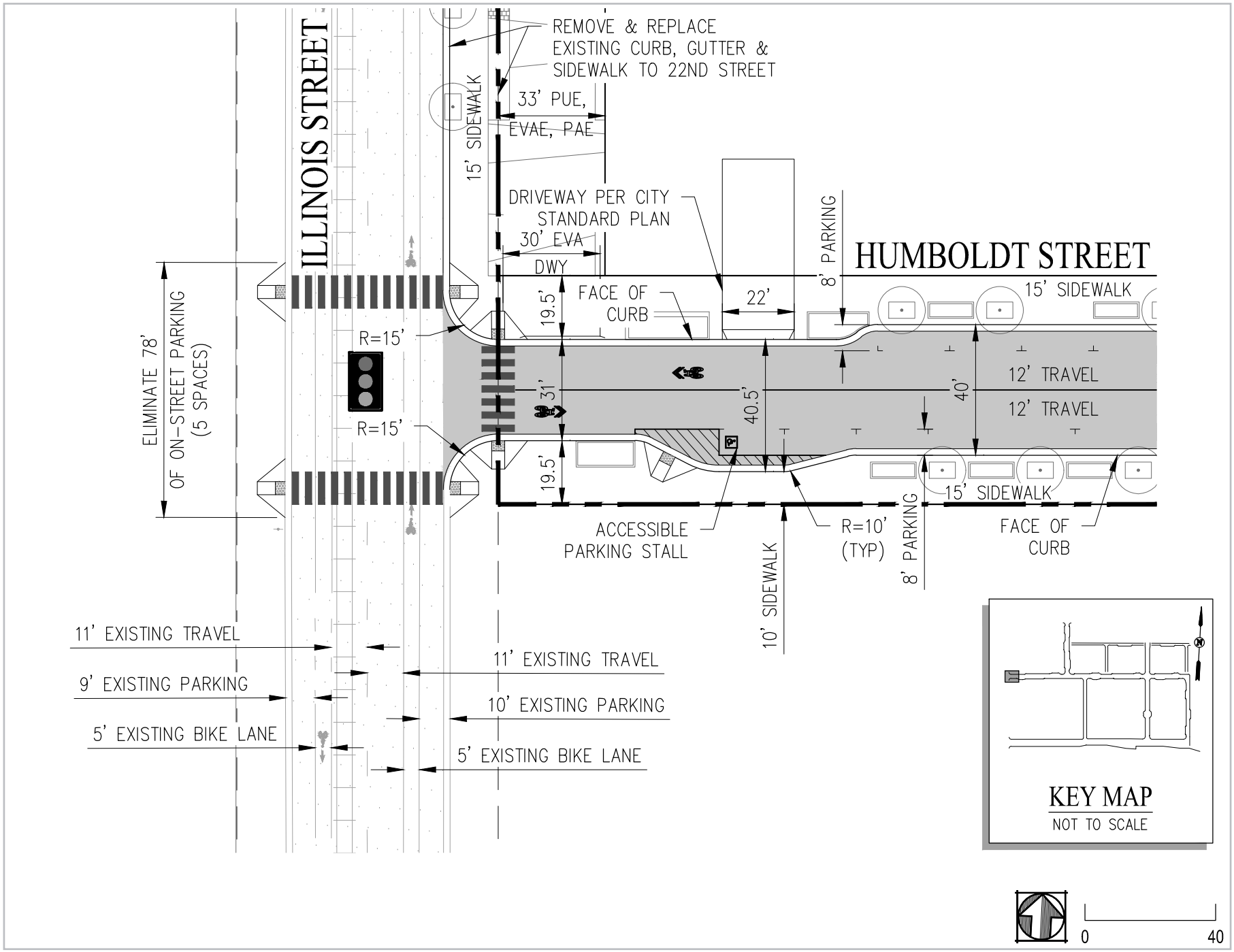


Figure 8.8 Intersection Geometry (Illinois Street & Humboldt Street)

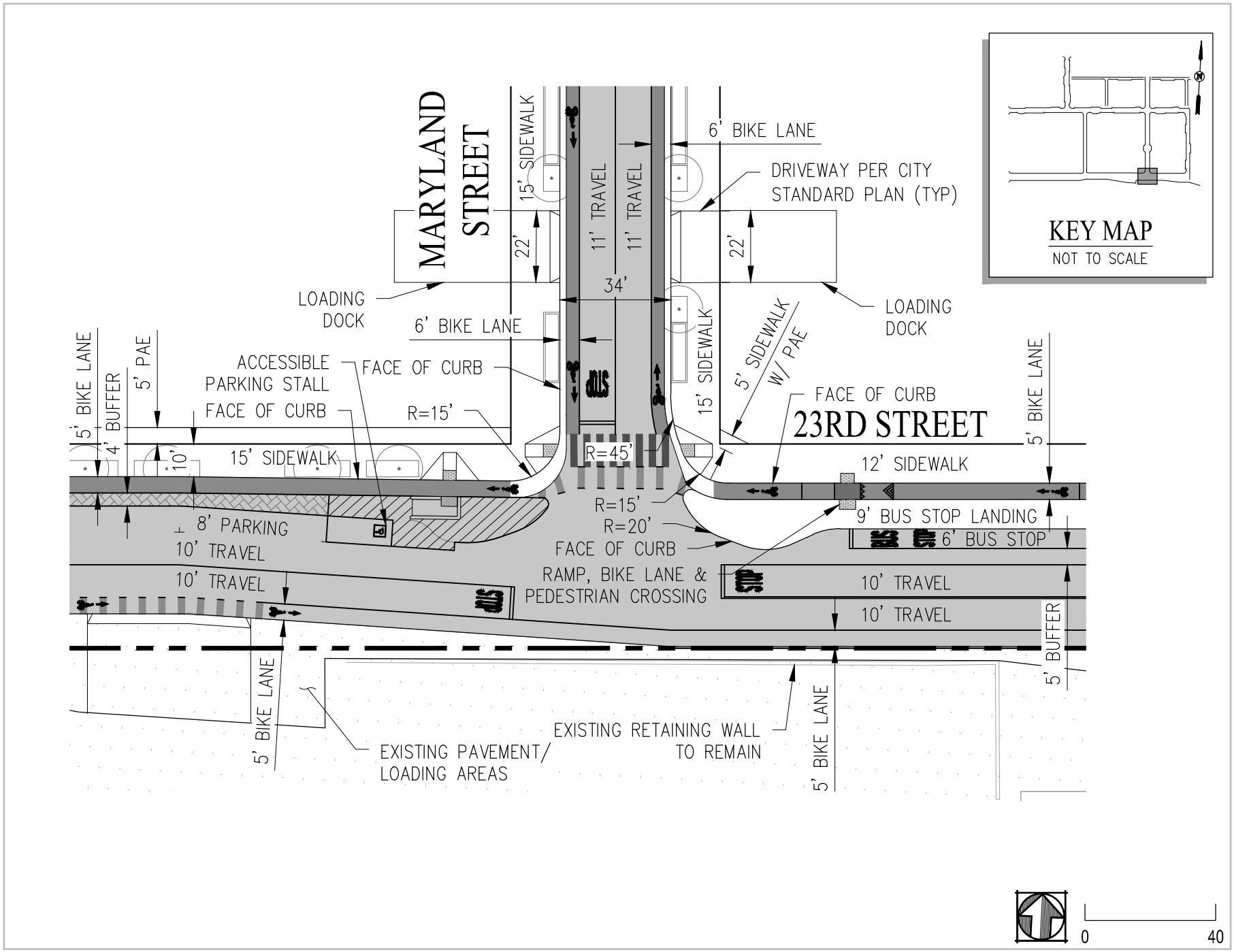


Figure 8.8 Intersection Geometry (Maryland Street & 23rd Street)

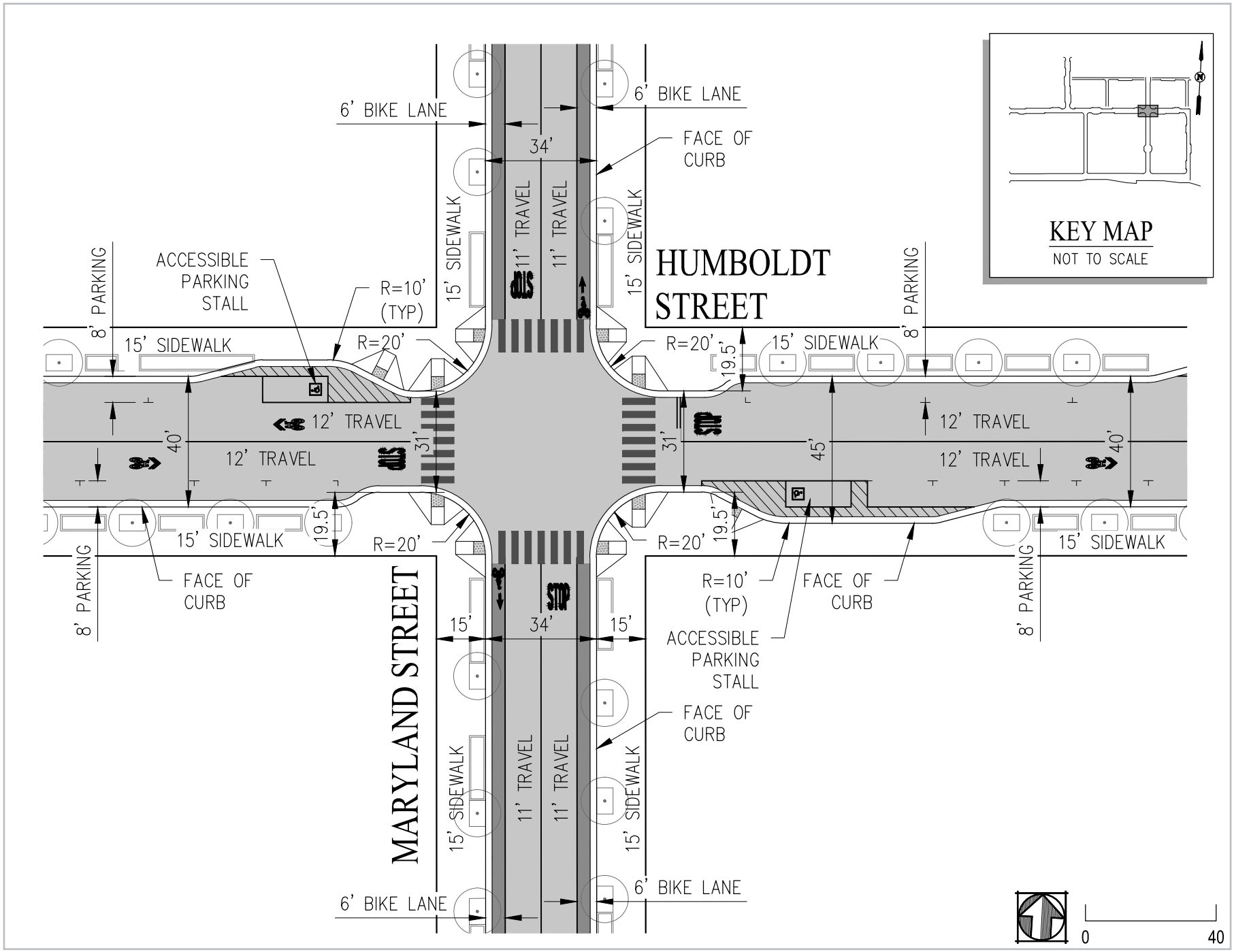


Figure 8.8 Intersection Geometry (Maryland Street & Humboldt Street)

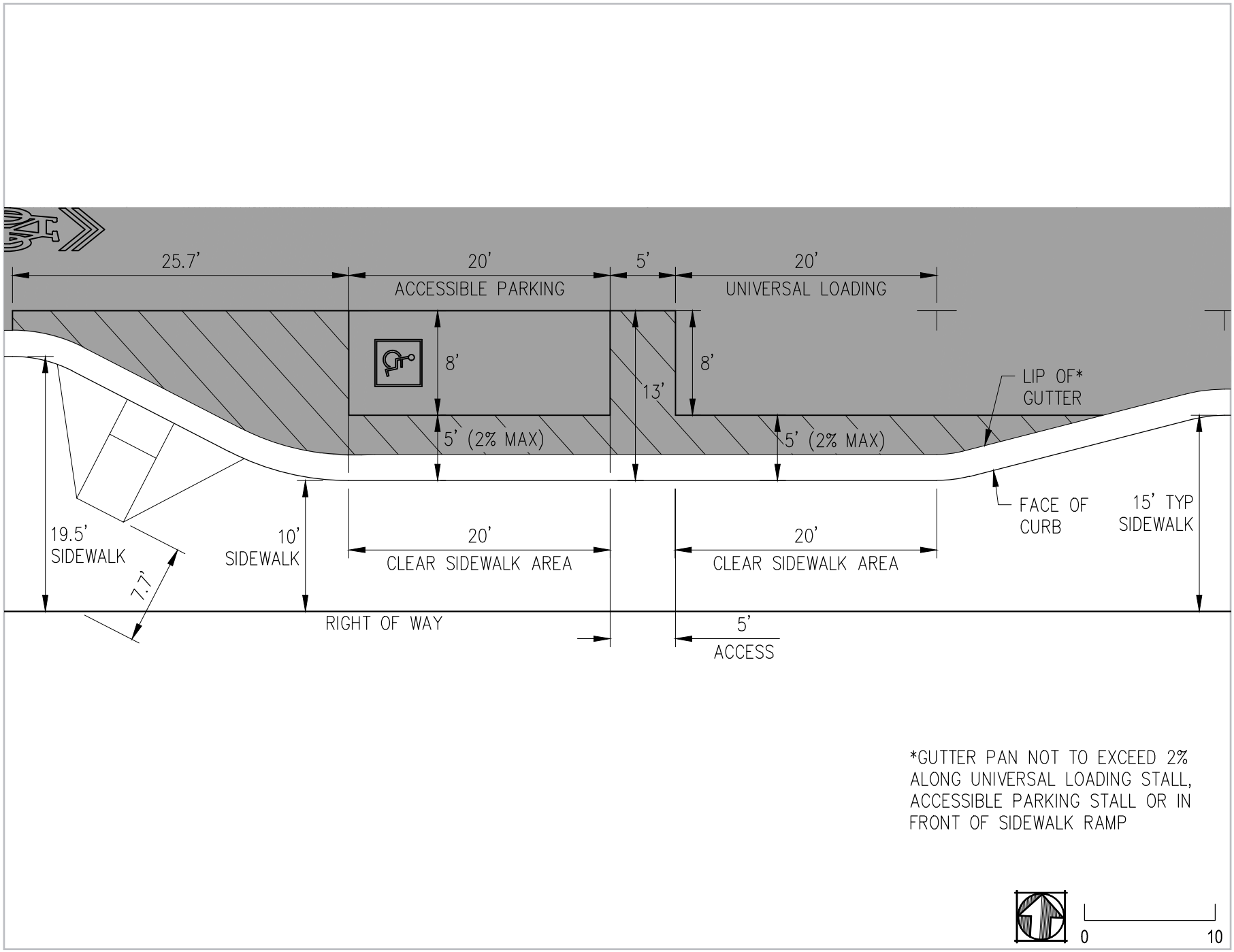


Figure 8.9 Typical Configuration of On-Street Universal Loading and Accessible Parking Stalls

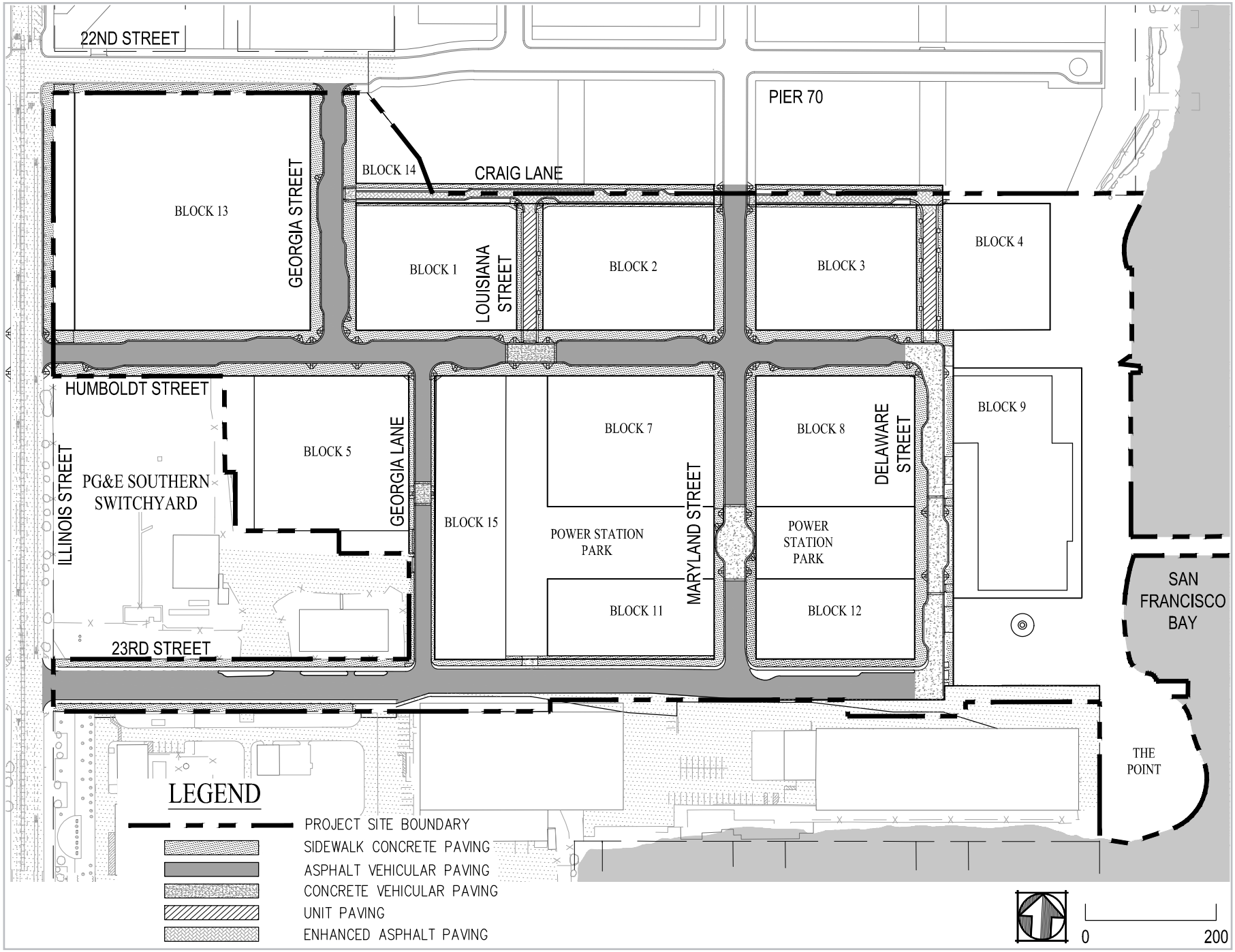


Figure 8.10 Pavement Surfaces

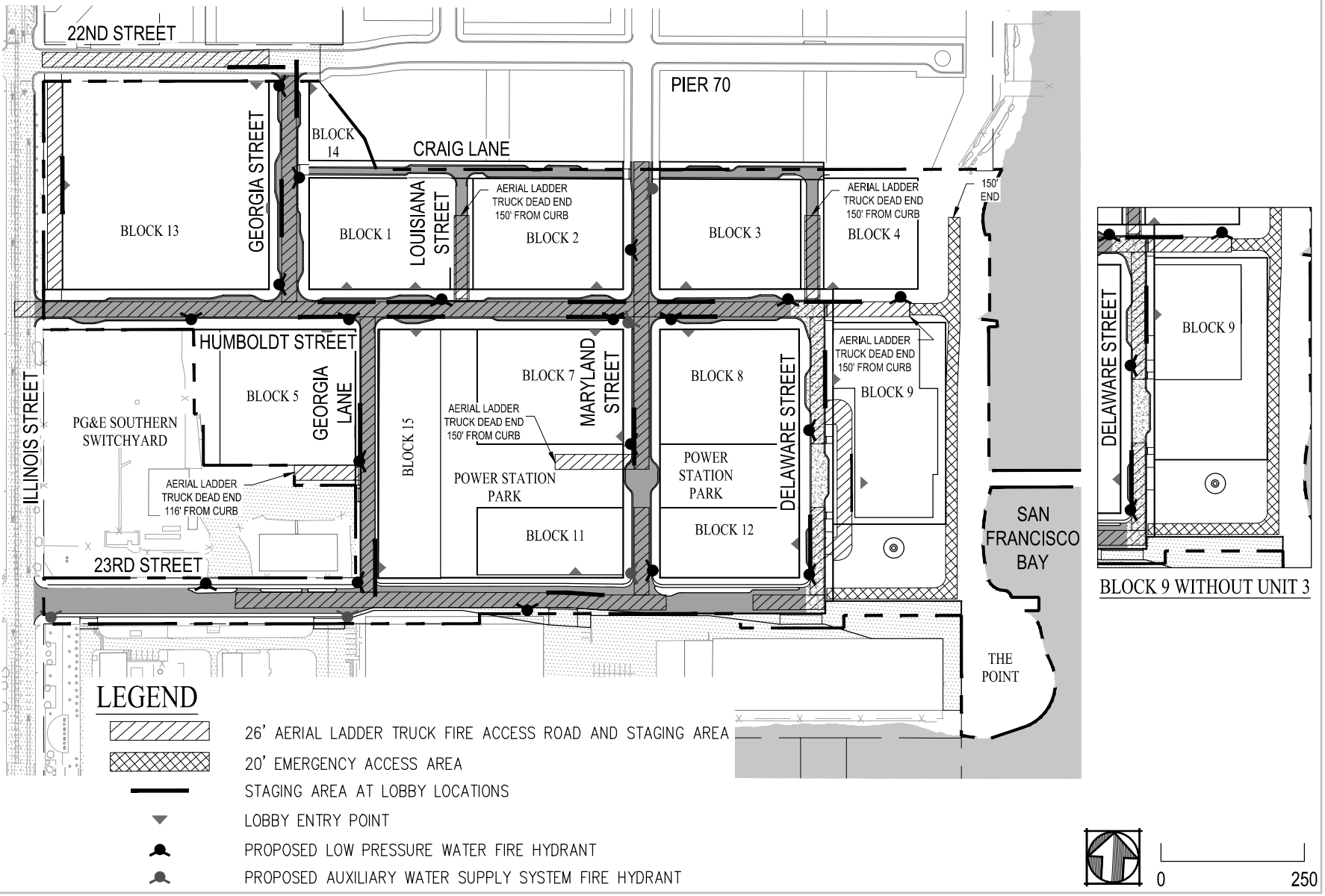


Figure 8.11 Fire Access Plan

9 OPEN SPACE

9.1 Proposed Open Spaces Areas

The proposed Project will provide approximately 6.9 acres of publicly accessible open space. The following is a summary of the major components of the open space network. Please see the D4D Open Space section for a detailed description of the Open Space System. These improvements are intended to complement the planned, adjacent Pier 70 Mixed-Use District open space improvements, extend the Blue Greenway and Bay Trail through the project site, and create an urban waterfront space. The Developer's infrastructure obligations include the design and construction of the open space and park improvements. Key components of the open space program area are described below.

9.1.1 Waterfront Park

This proposed approximately 4.0-acre waterfront park will extend the Blue Greenway and Bay Trail from the Pier 70 Mixed-Use District project through the Project Site, and provide spill-out spaces for retail, quiet spaces, and waterfront viewing terraces and recreational area. Additional amenities could include trellis structures, barbeques, a recreational dock, and public art.

9.1.2 Power Station Park and Louisiana Paseo

This proposed 1.92-acre central green space will extend east-west through the interior of the Project Site and connect the Louisiana Paseo to the waterfront. This park could contain play or fitness structures, art, trellis structures, and outdoor picnic areas. Louisiana Paseo will provide flexible use urban plaza spaces.

9.1.3 Rooftop Soccer Field

A public open space is proposed on a portion of the roof of the district parking garage. This rooftop open space would include benches and a screened 0.68-acre U-10 soccer field. The rooftop soccer field will be accessible from the street level by an elevator.

9.1.4 Illinois Plaza

This proposed 0.28-acre linear plaza stretches between 22nd Street and Humboldt Street along the west side of Block 13. The plaza sits over a utility corridor and will serve as an EVA lane.

9.2 Phasing, Ownership, Operation and Maintenance

The new open space and parks system will be constructed in phases to match the Phases of the Project and as depicted on the Phasing Plan, Figure 1.3. The Phase will connect to the existing open space and parks as close to the edge of the Phase area as possible where a logical transition line can be established within the open space improvement features.

The proposed parks and open space will be owned and maintained by the Project Master Association, except for the portions of The Point and Waterfront Park that are owned by the Port. The Port will maintain ownership of these areas, but these areas will also be maintained by the Project Master Association.

The rooftop soccer field will be available for reservation through the San Francisco Recreation and Parks Department athletic field reservation system.

10 UTILITY LAYOUT AND SEPARATION

10.1 Utility Systems

The Project will install public utility systems, including combined sewer system, separated sanitary sewer system, separated storm drain system, low pressure water system, non-potable water system, auxiliary water supply system and dry utility systems.

10.2 Utility Separation Criteria

The proposed utility systems will be designed to provide the required placement and separation criteria in accordance with the City of San Francisco Subdivision Regulations, SFPUC Utility Standards and asset protection standards, California Code of Regulations Title 22, Section 64572 and PUC GO 128. Utility main separation requirements are depicted in Figure 10.1 from the Subdivision Regulations.

10.2.1 23rd Street Utility Considerations

The 23rd Street corridor contains existing underground high voltage electrical lines along the north and south sides of the street. Additionally, SFPUC Power Enterprises is currently implementing their Bay Corridor Transmission and Distribution ("BCTD") Power Enterprises Project. The proposed utilities within the 23rd Street have been carefully planned to provide the required separations from these existing significant components of infrastructure. The alignments of the proposed utilities in 23rd Street will vary in order to provide the required separations to the existing facilities.

10.3 Utility Configurations

The proposed utility systems are designed to connect to the reliable existing adjacent public utility infrastructure facilities. Descriptions of each utility system are provided in Sections 11 through 16. The anticipated configurations of the utility systems within each street complying with the required placement and separation criteria are depicted in Figure 10.2.

10.4 Utility Configurations Variances

The existing underground utilities that are required to be preserved in 23rd Street and Humboldt Street may require exceptions or design modifications for the proposed public utilities within these streets. A formal exception or design modification for any facility that does not meet the SFPUC standards will be requested with the Project construction documents submittal, if necessary.

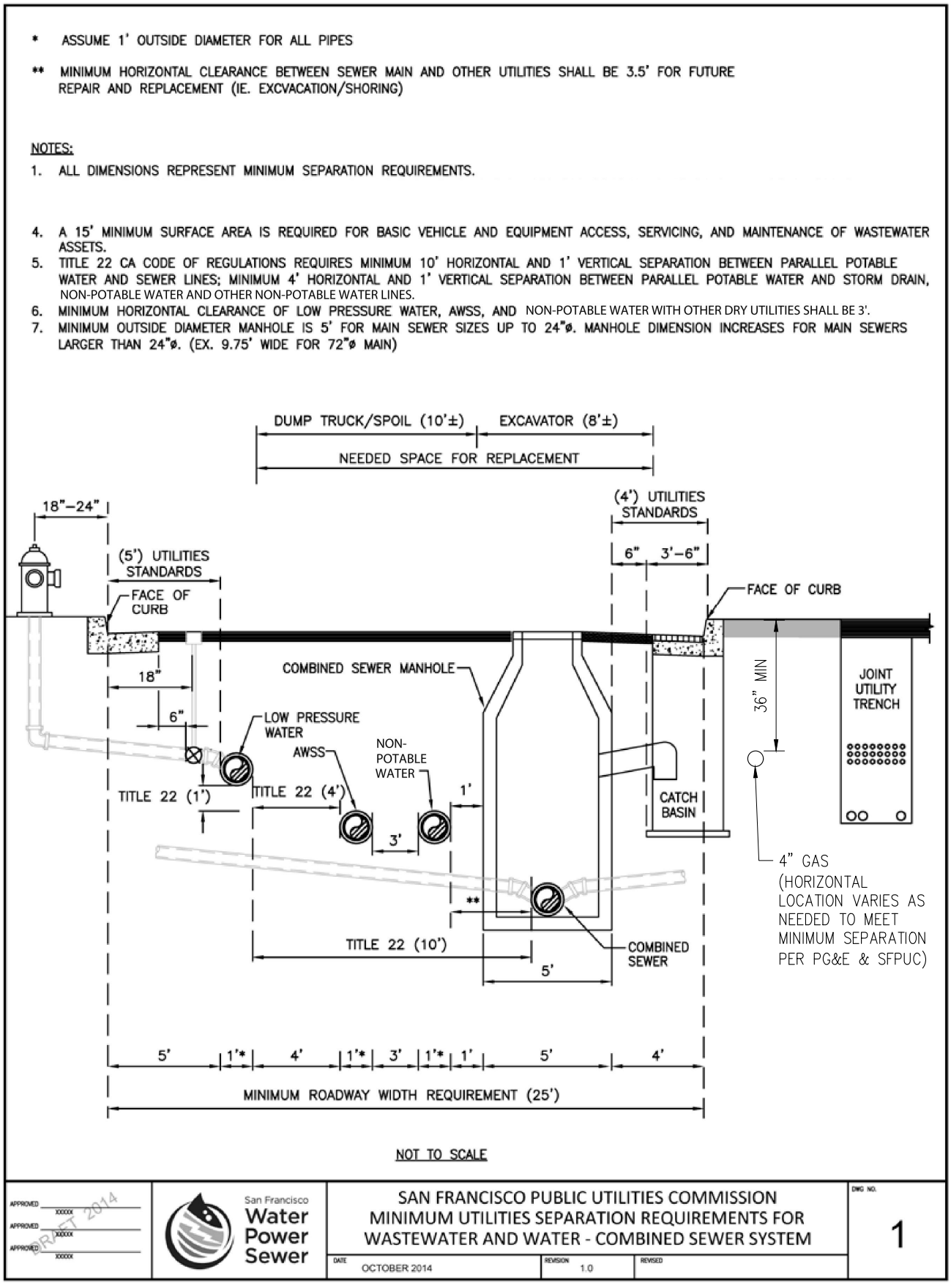


Figure 10.1 Utility Separation Criteria - Combined Sewer

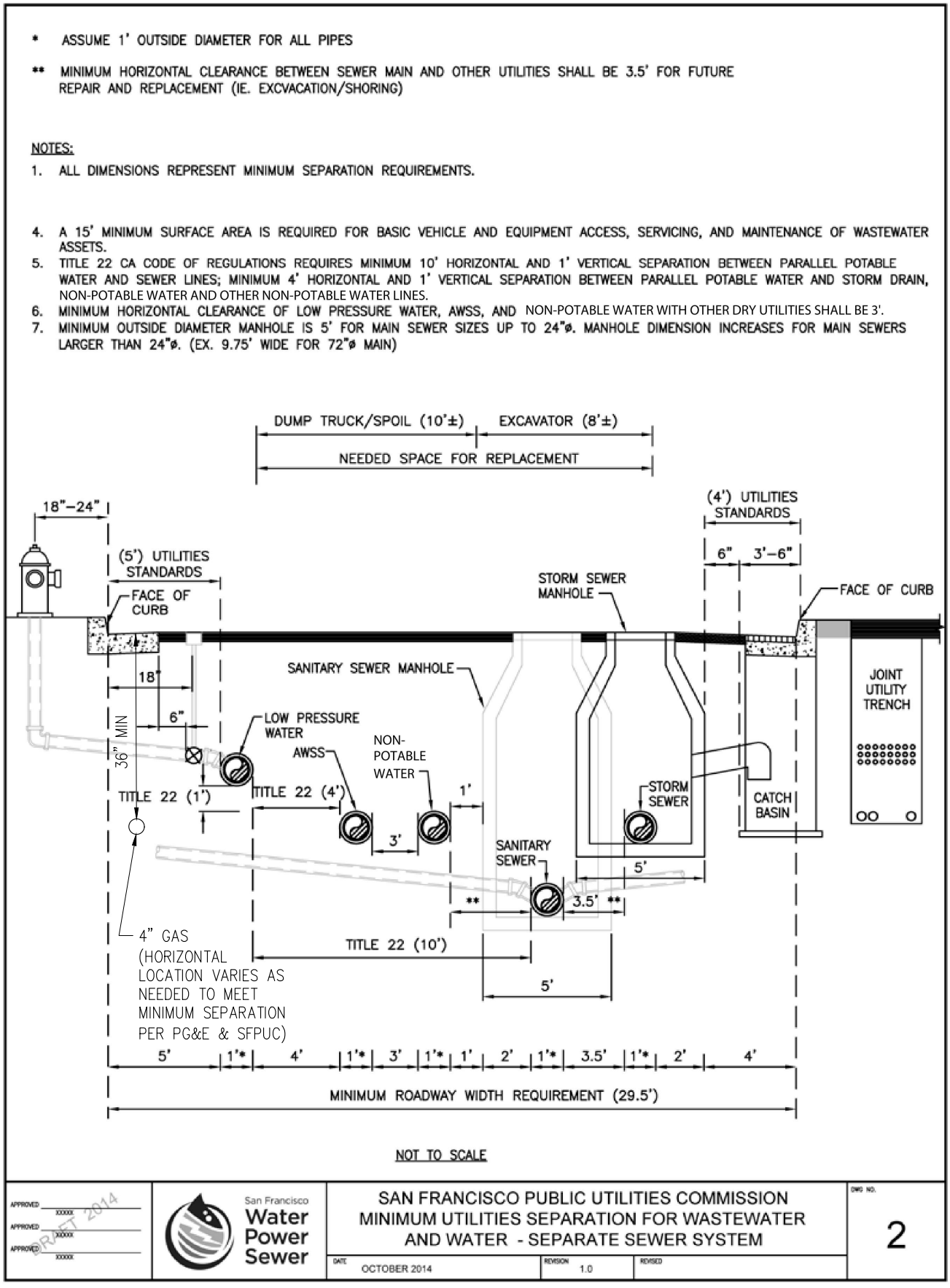


Figure 10.1 Utility Separation Criteria - Separated Sewer

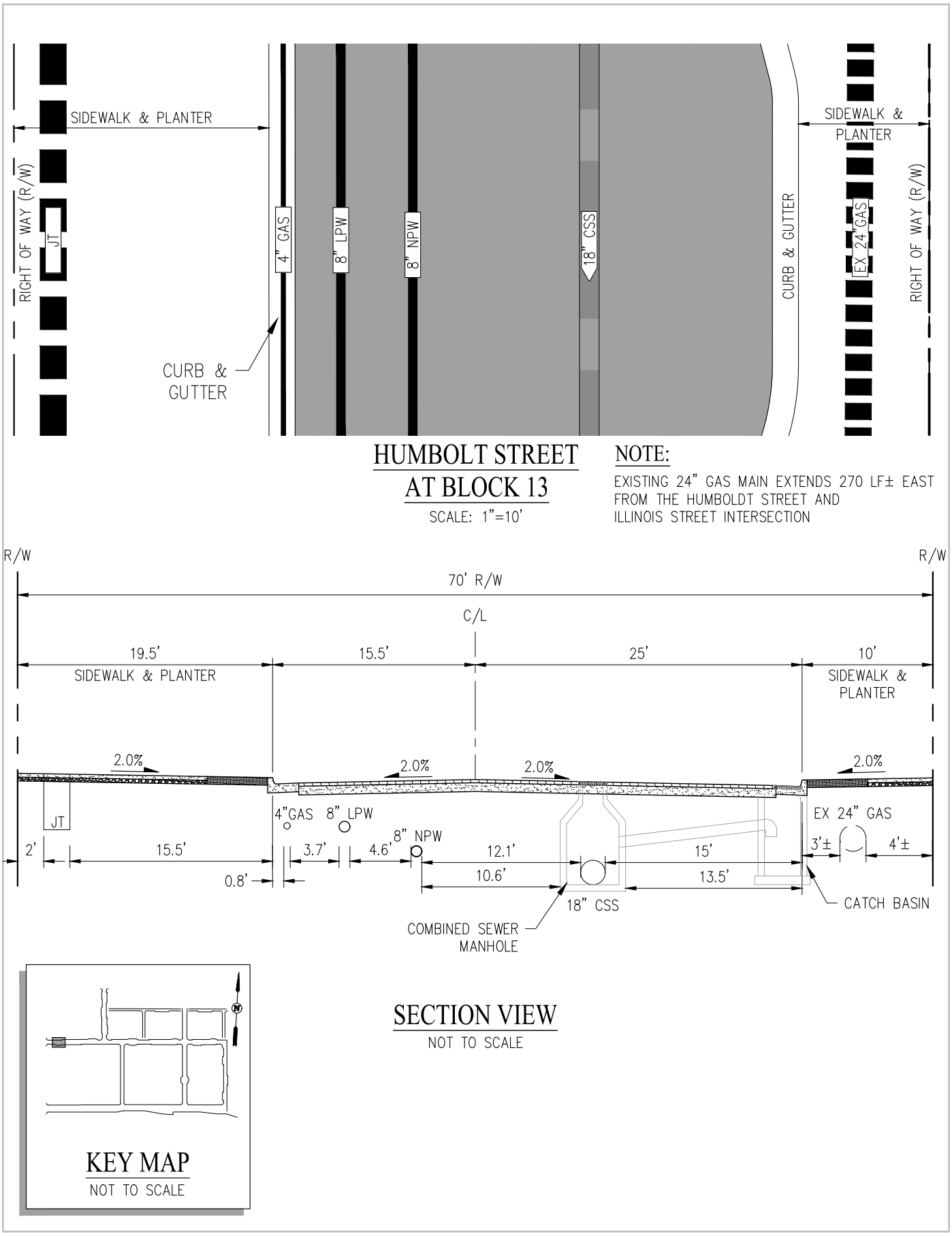


Figure 10.2 Utility Configurations

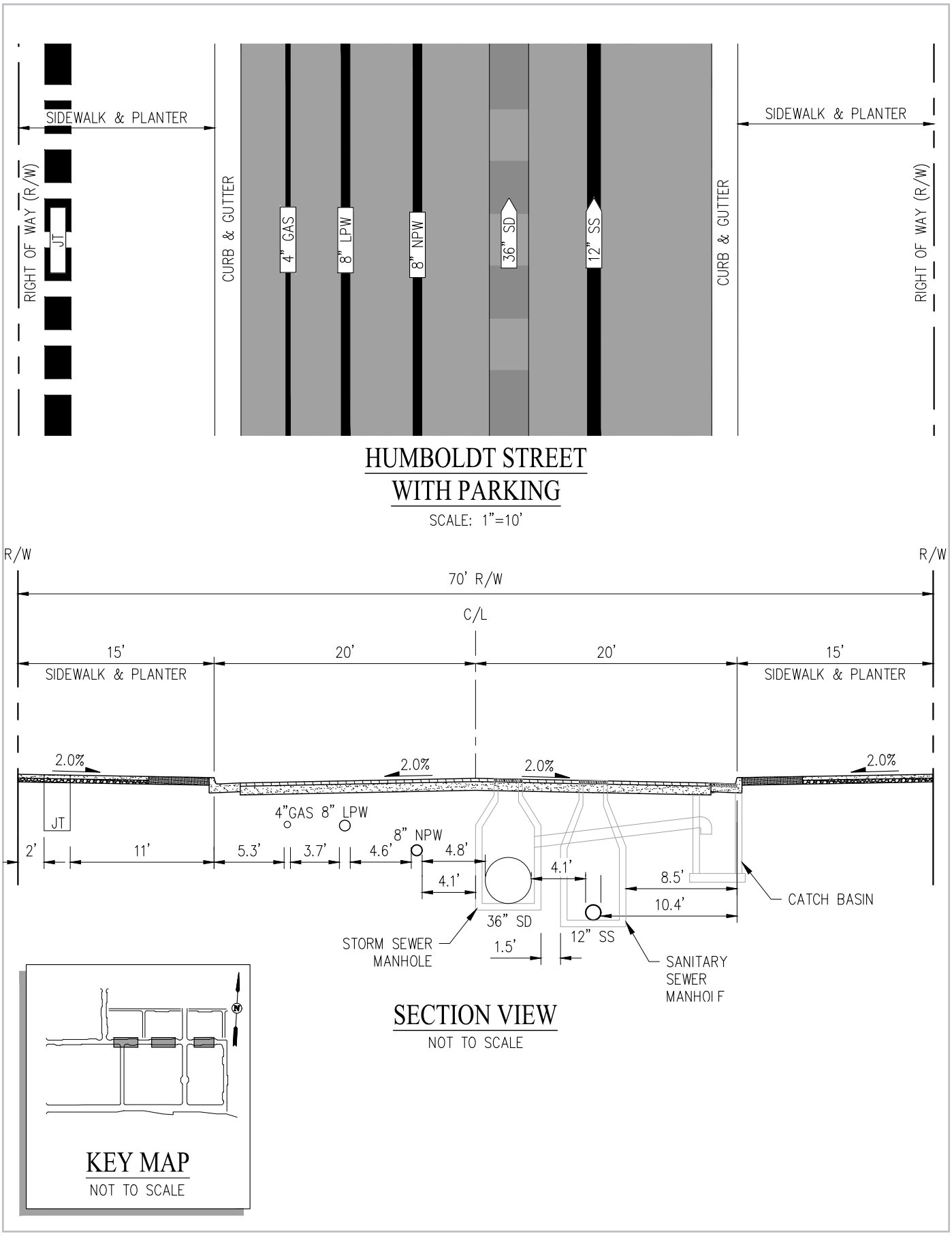


Figure 10.2 Utility Configurations

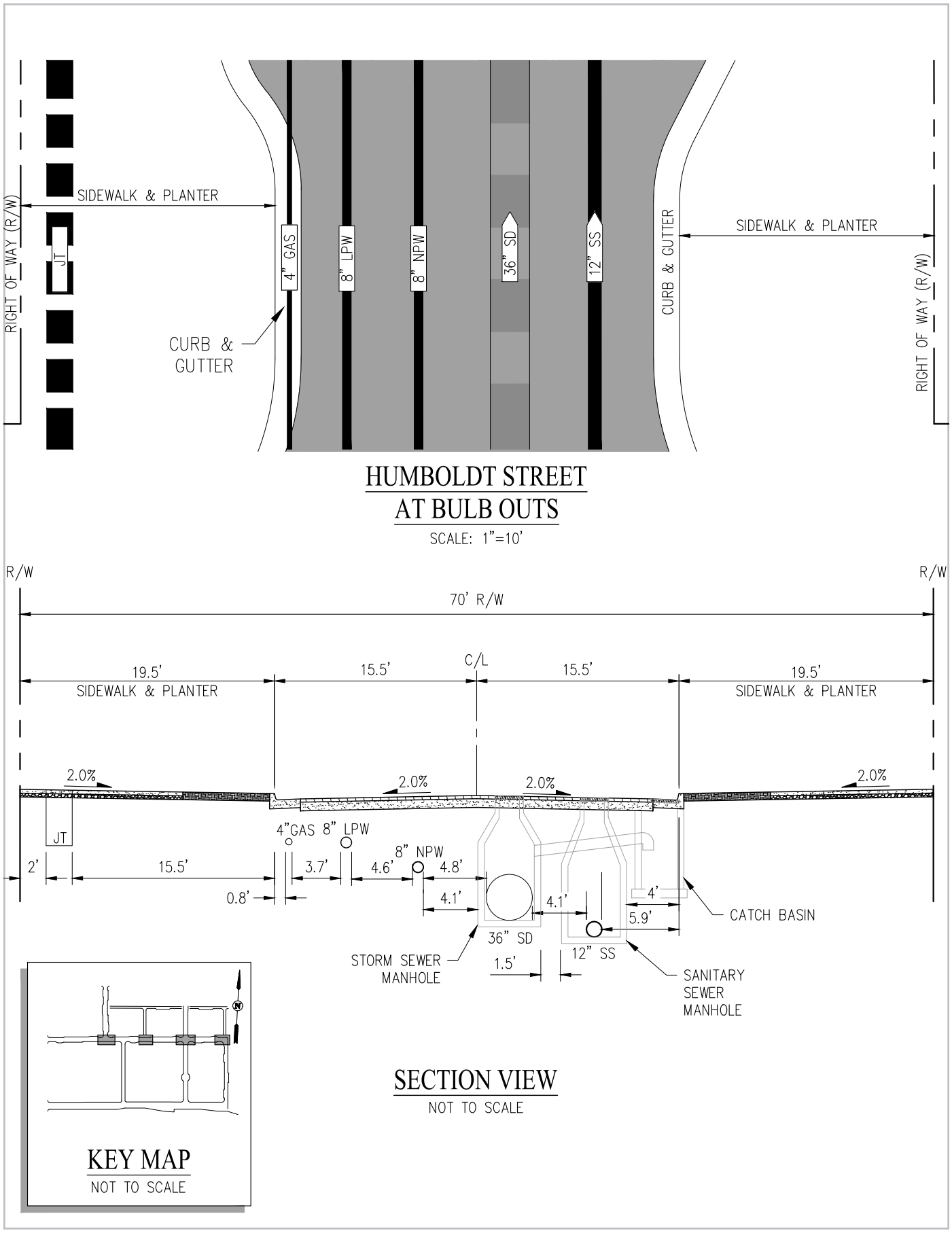
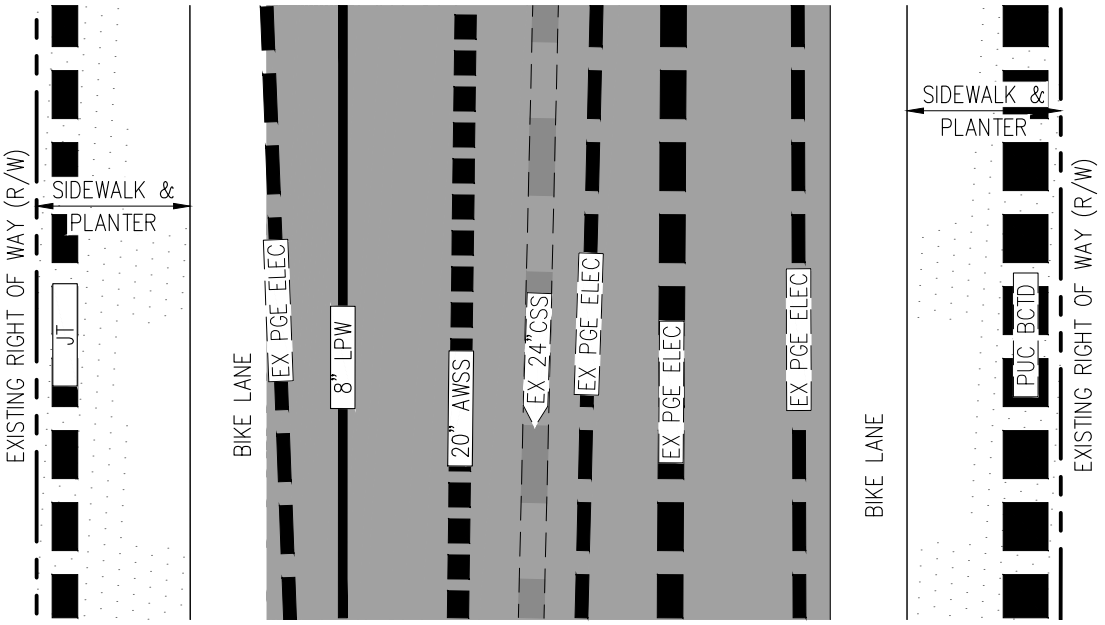
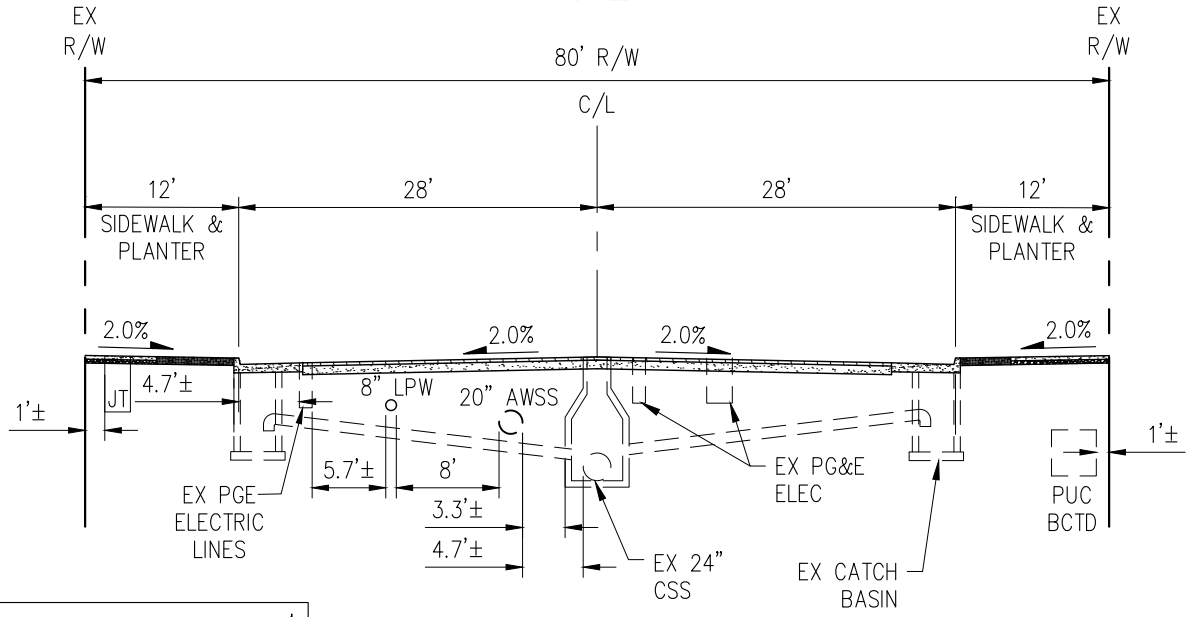


Figure 10.2 Utility Configurations



23RD STREET AT
PG&E SWITCHYARD

SCALE: 1"=15'



SECTION VIEW

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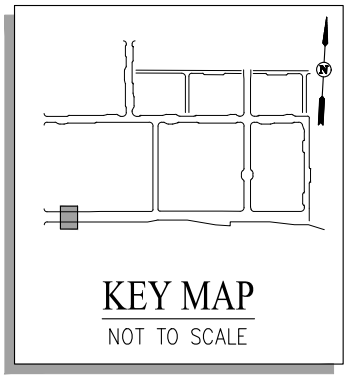


Figure 10.2 Utility Configurations

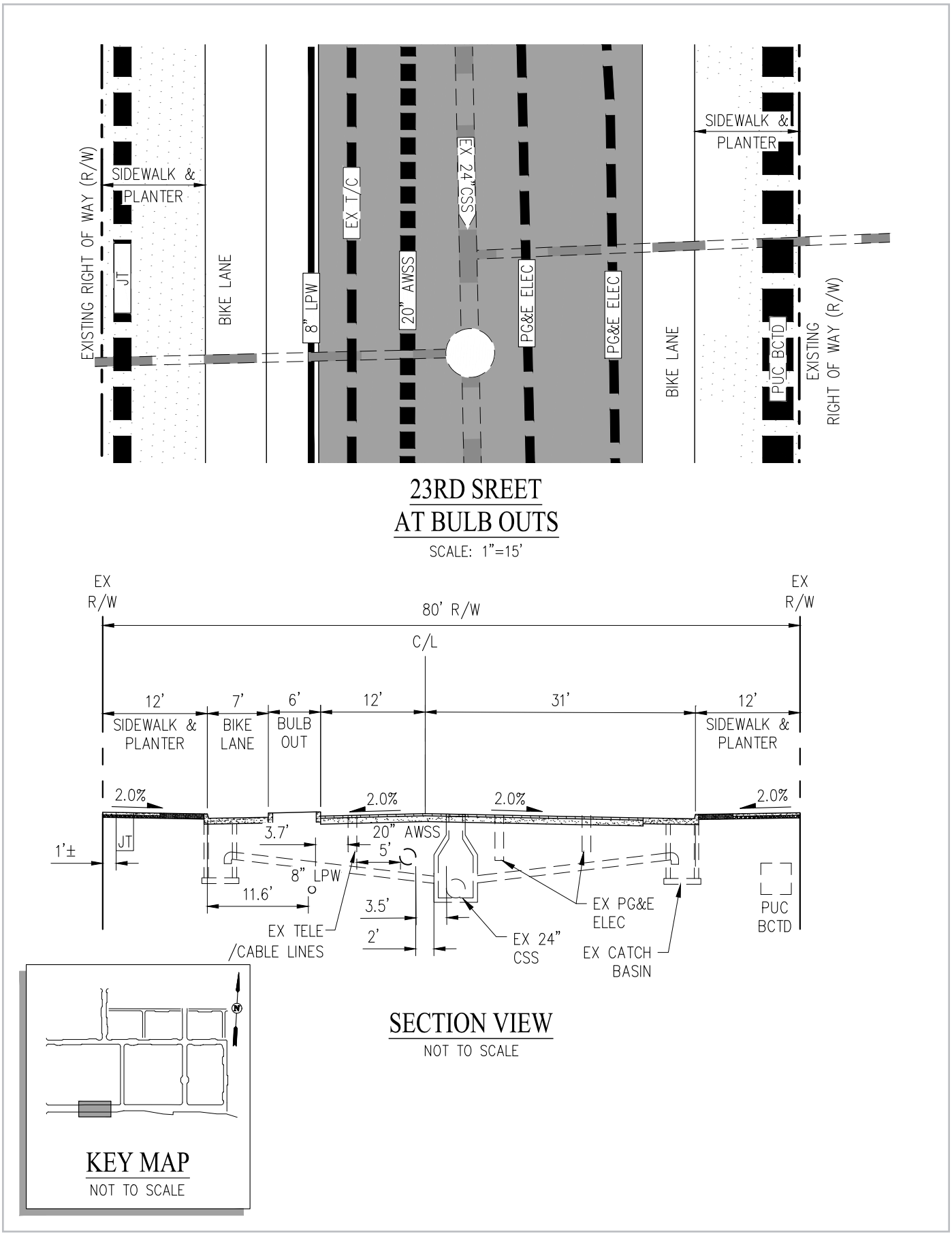


Figure 10.2 Utility Configurations

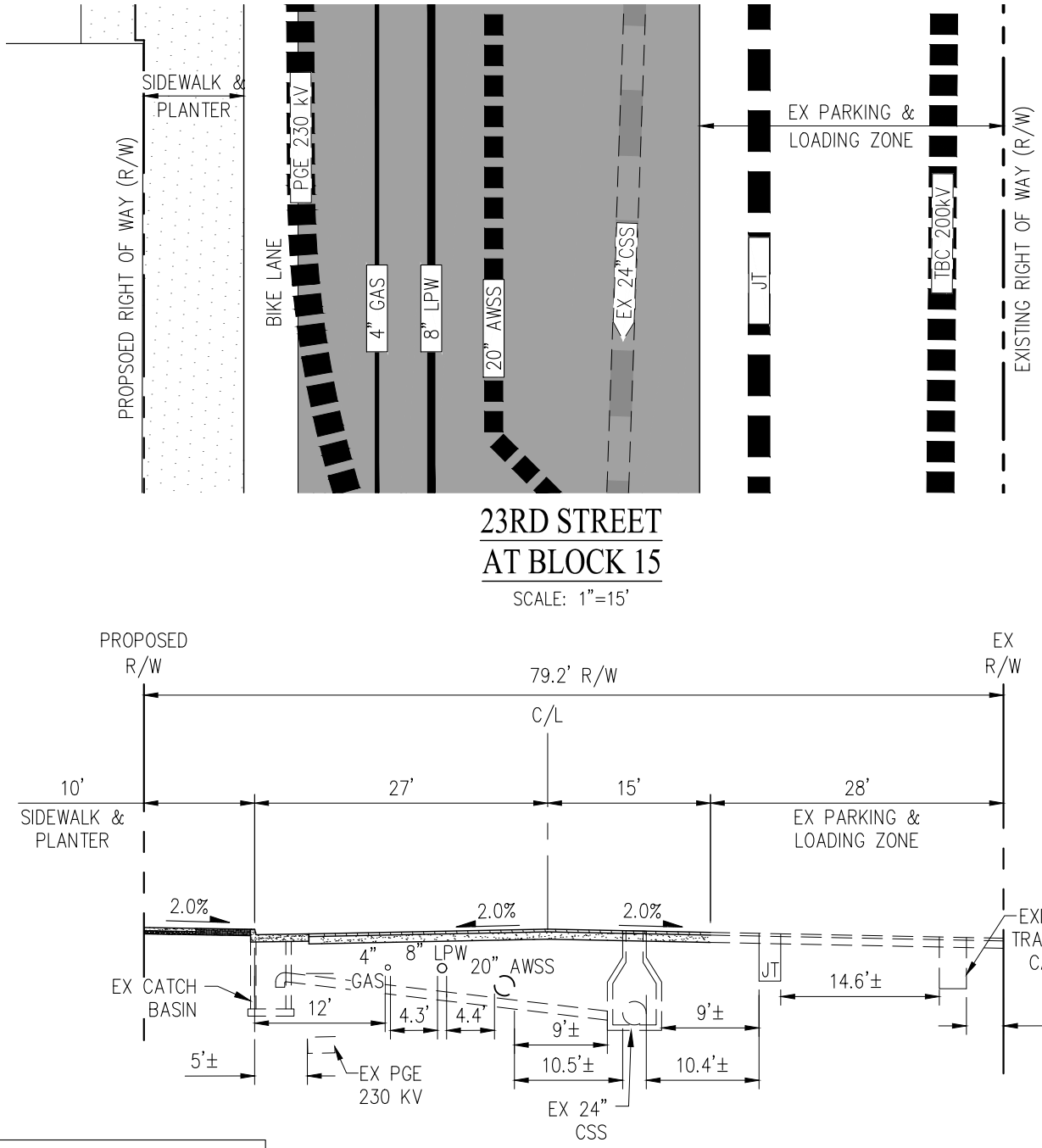


Figure 10.2 Utility Configurations

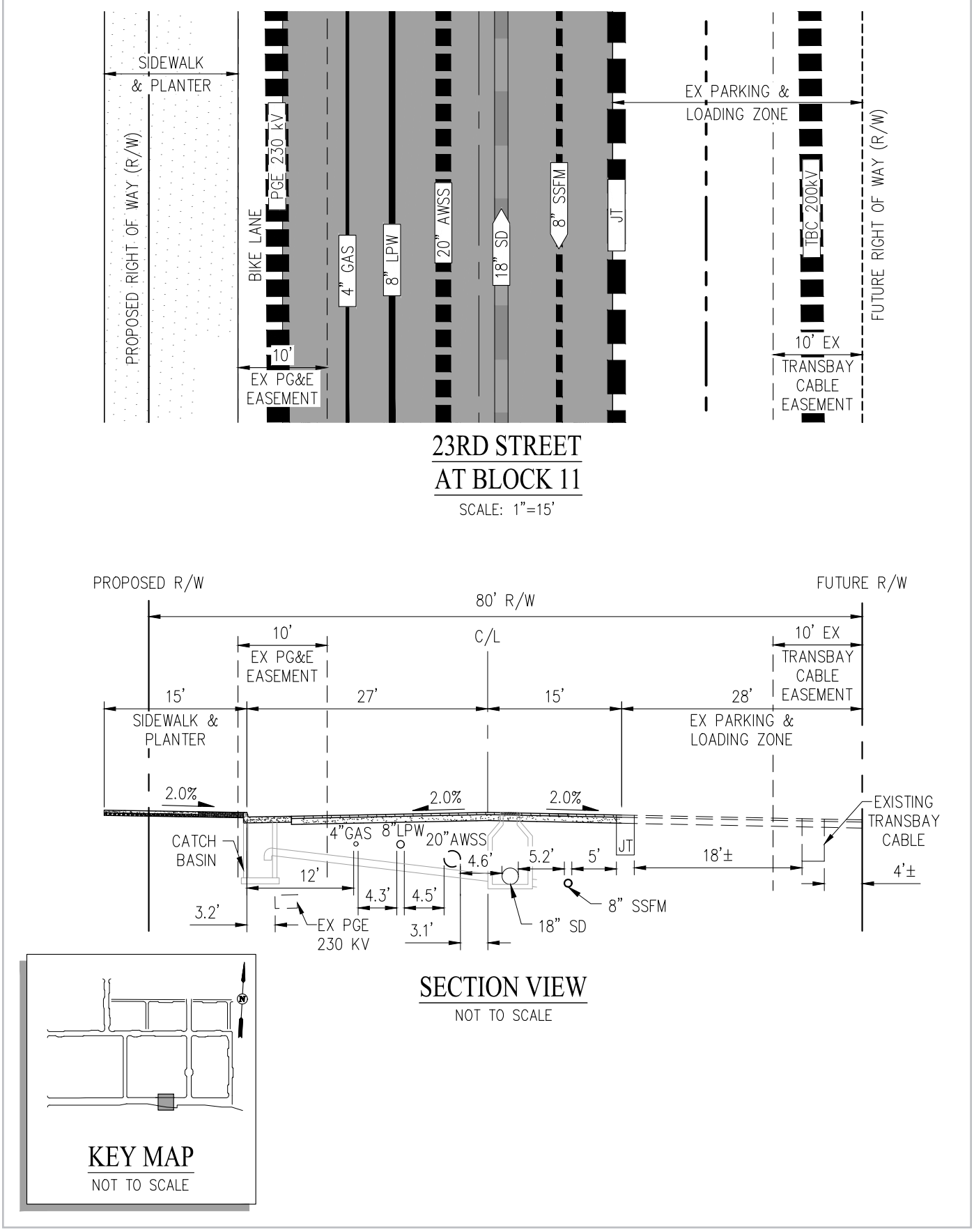
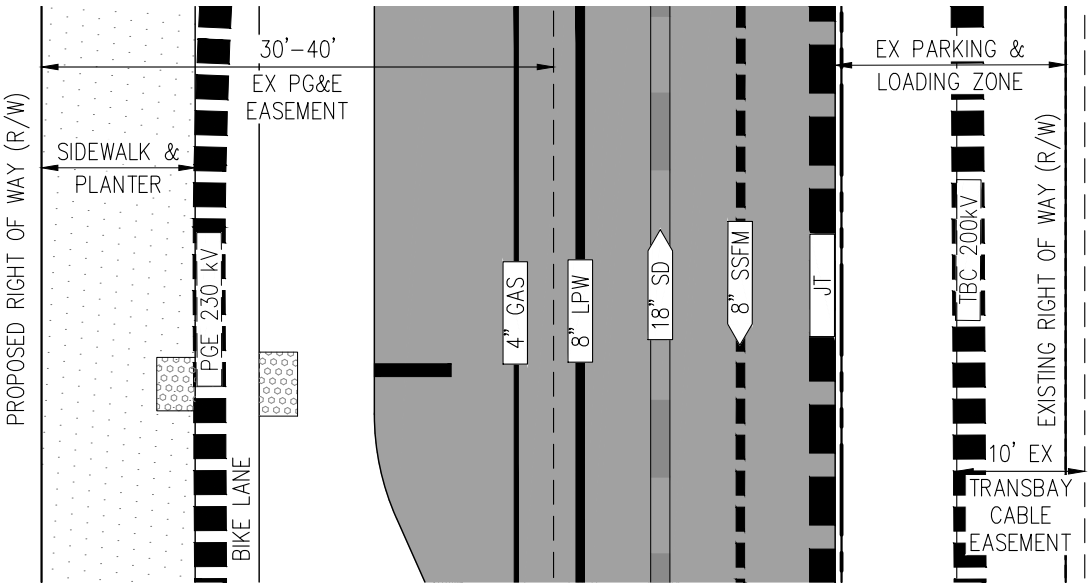


Figure 10.2 Utility Configurations



23RD STREET
AT BLOCK 12

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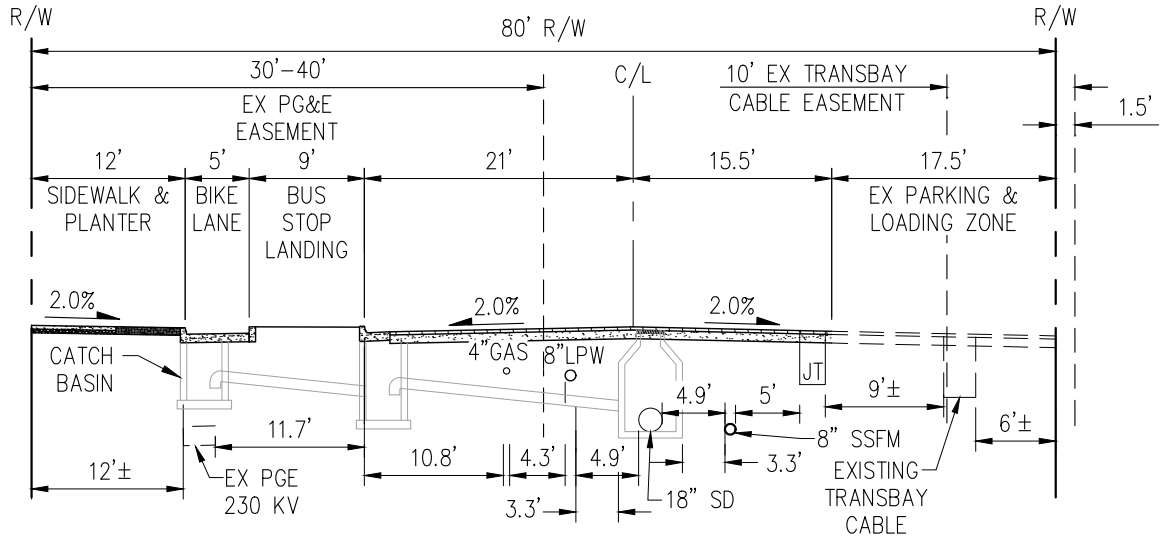

SECTION VIEW

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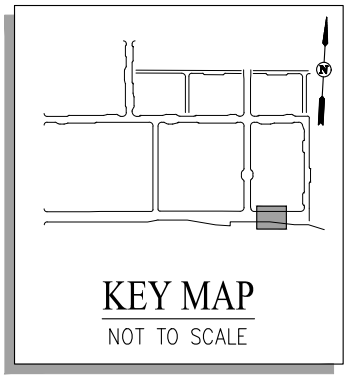


Figure 10.2 Utility Configurations

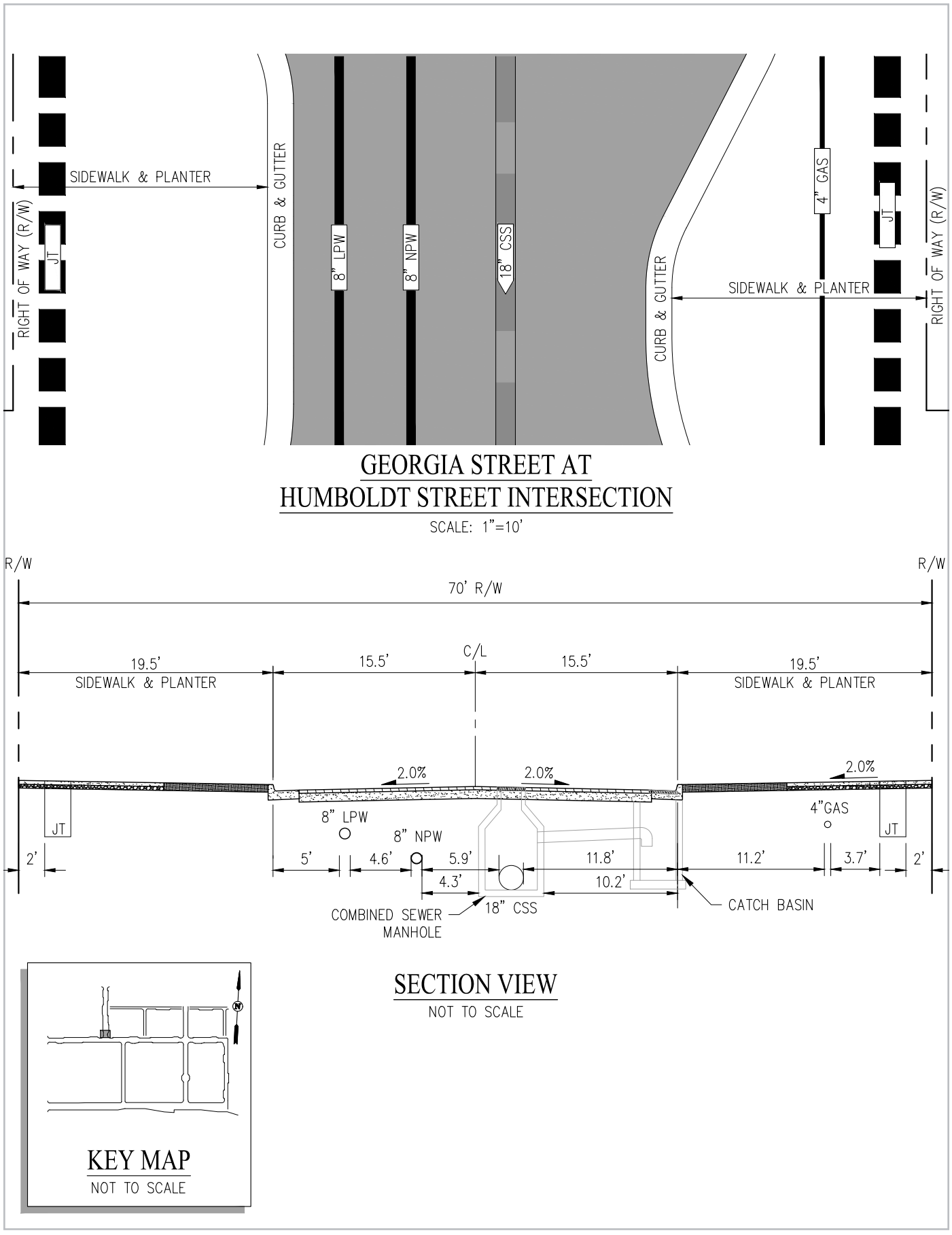


Figure 10.2 Utility Configurations

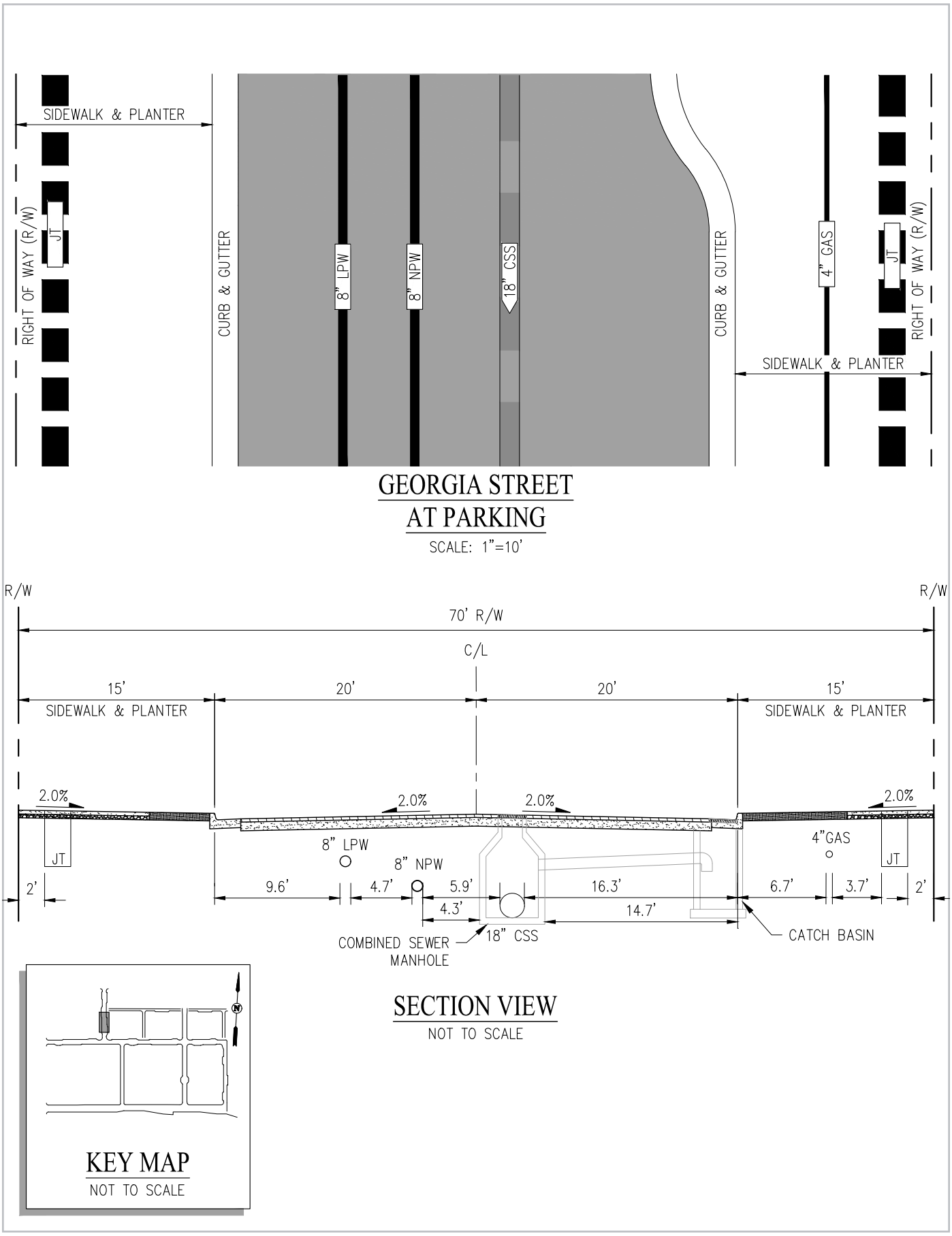


Figure 10.2 Utility Configurations

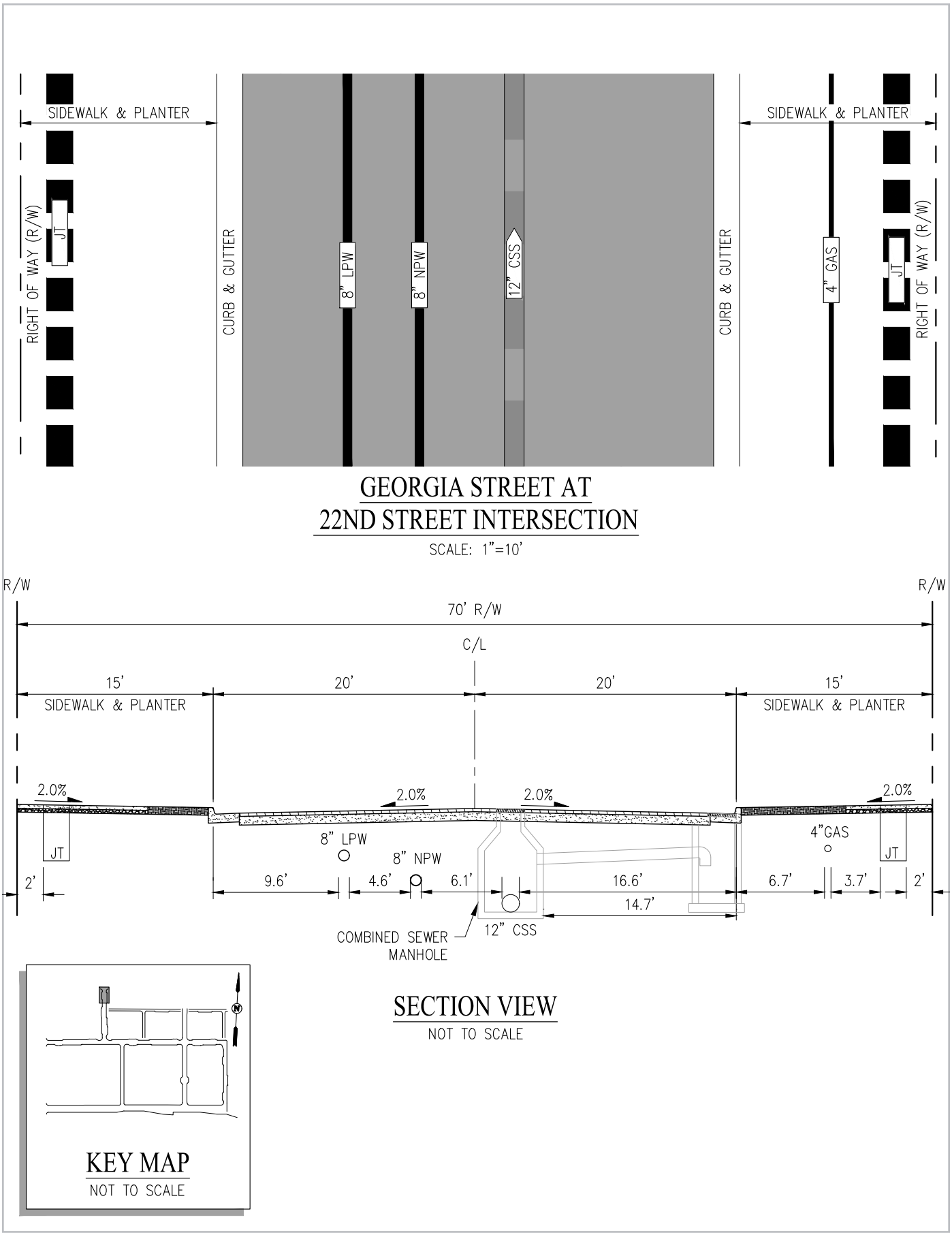
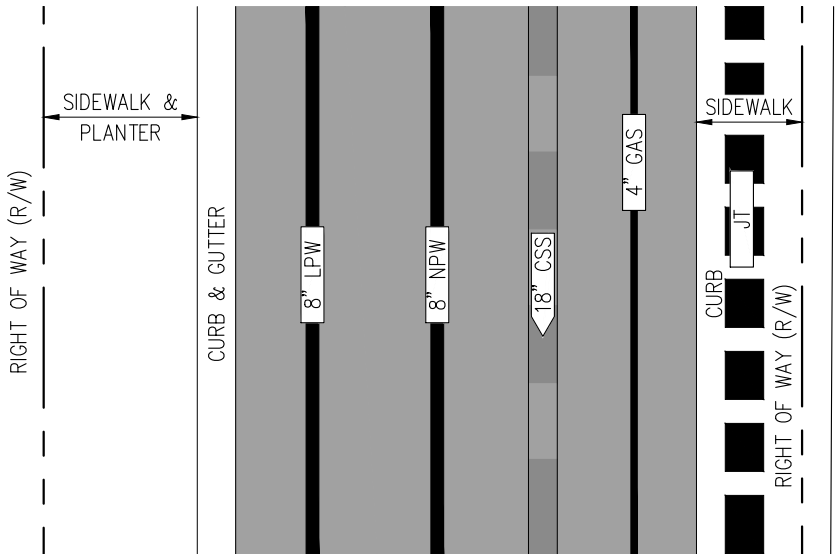


Figure 10.2 Utility Configurations



GEORGIA LANE

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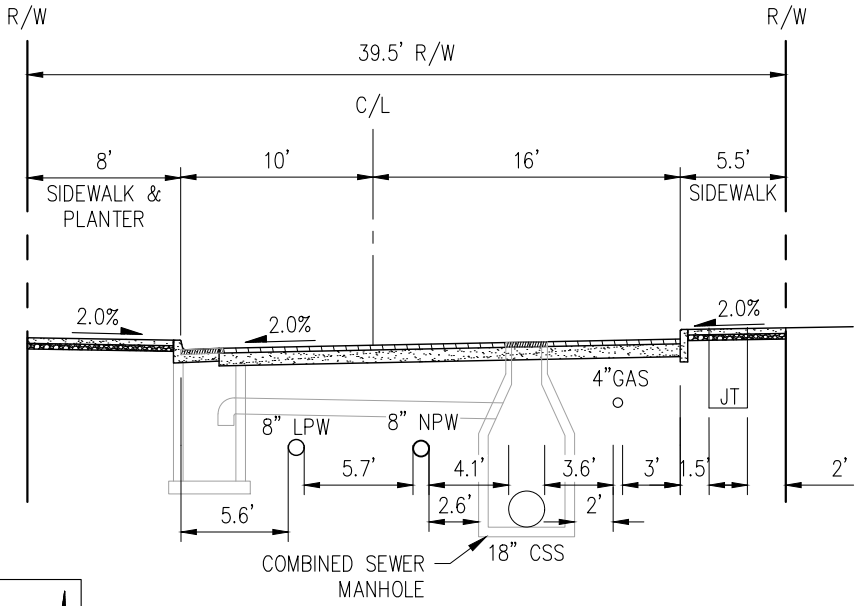

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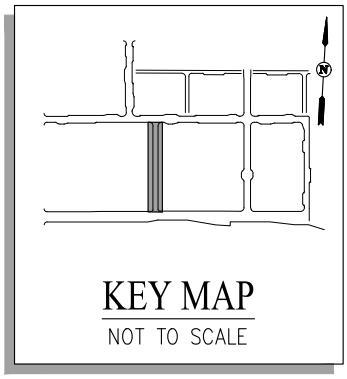
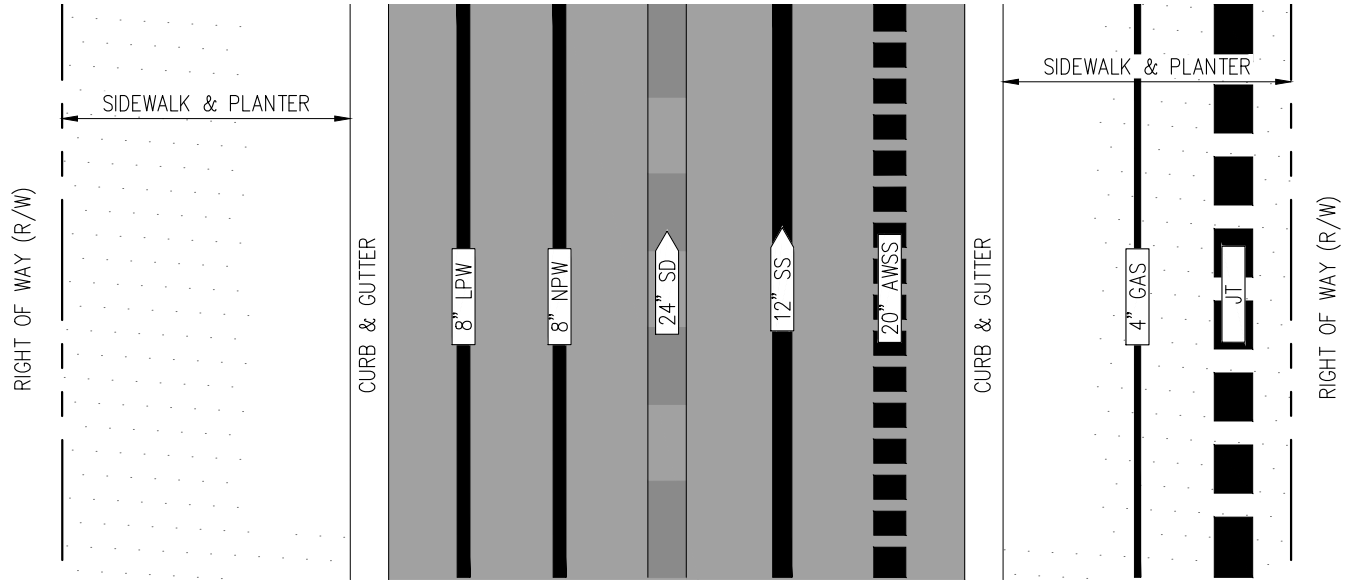


Figure 10.2 Utility Configurations



MARYLAND STREET

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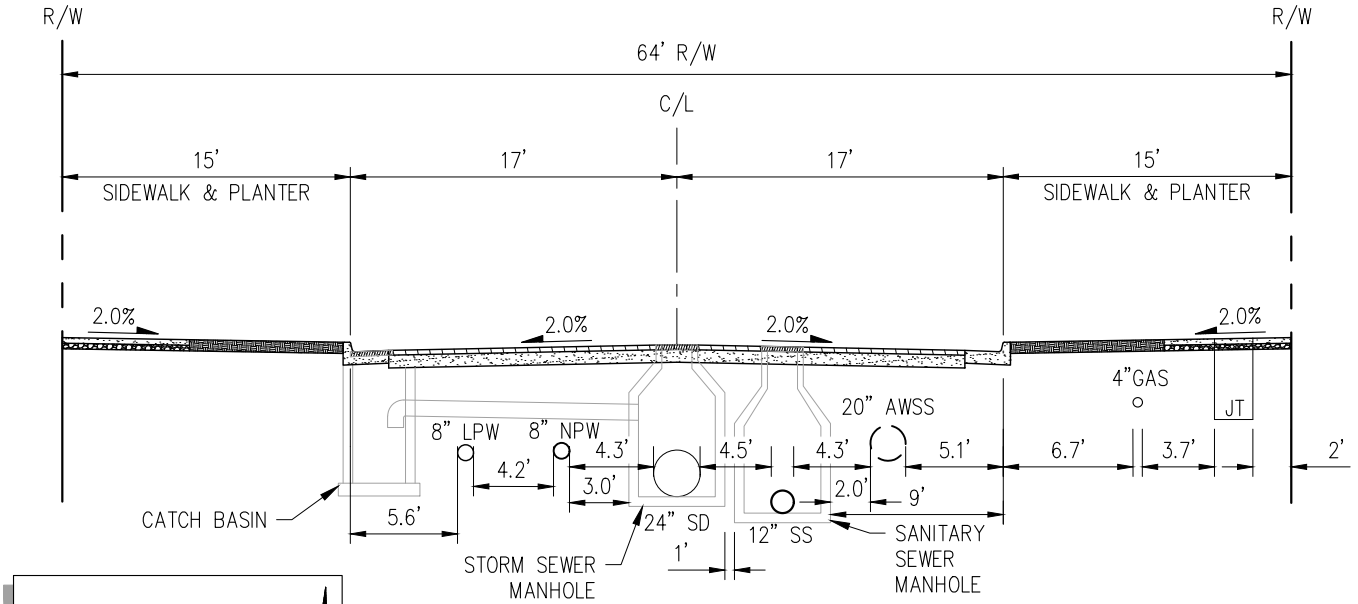

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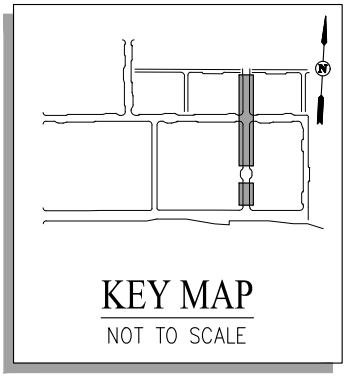

KEY MAP

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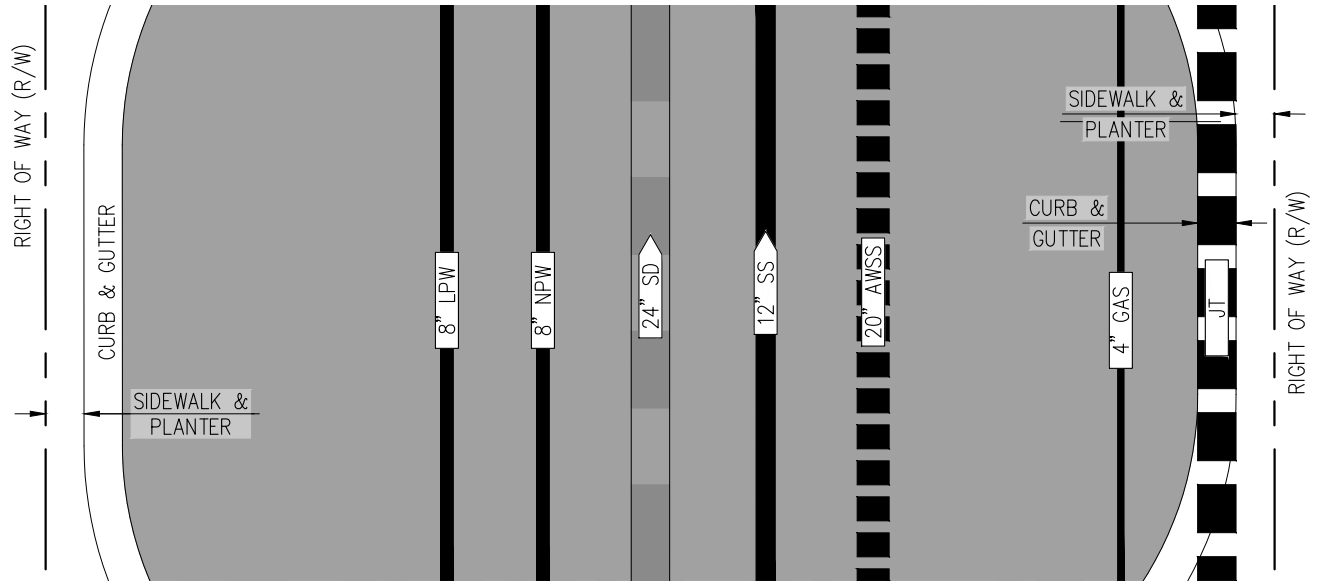
Figure 10.2 Utility Configurations



MARYLAND STREET
AT PARKING
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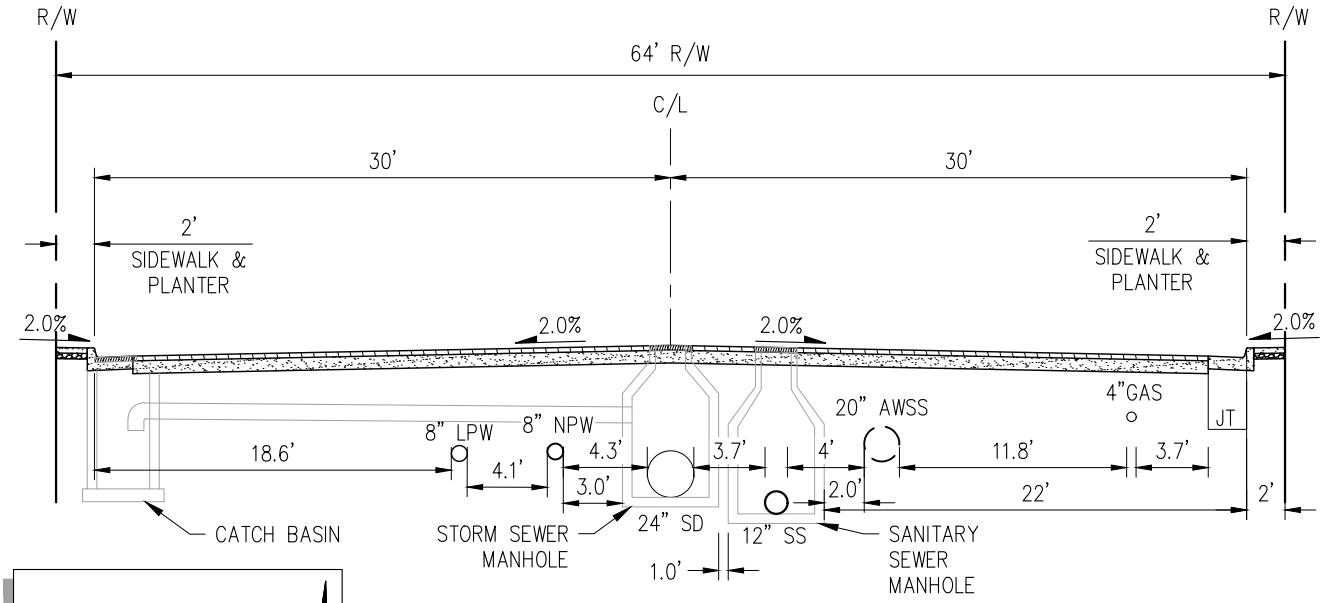

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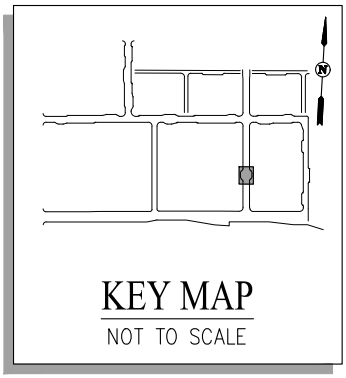

KEY MAP
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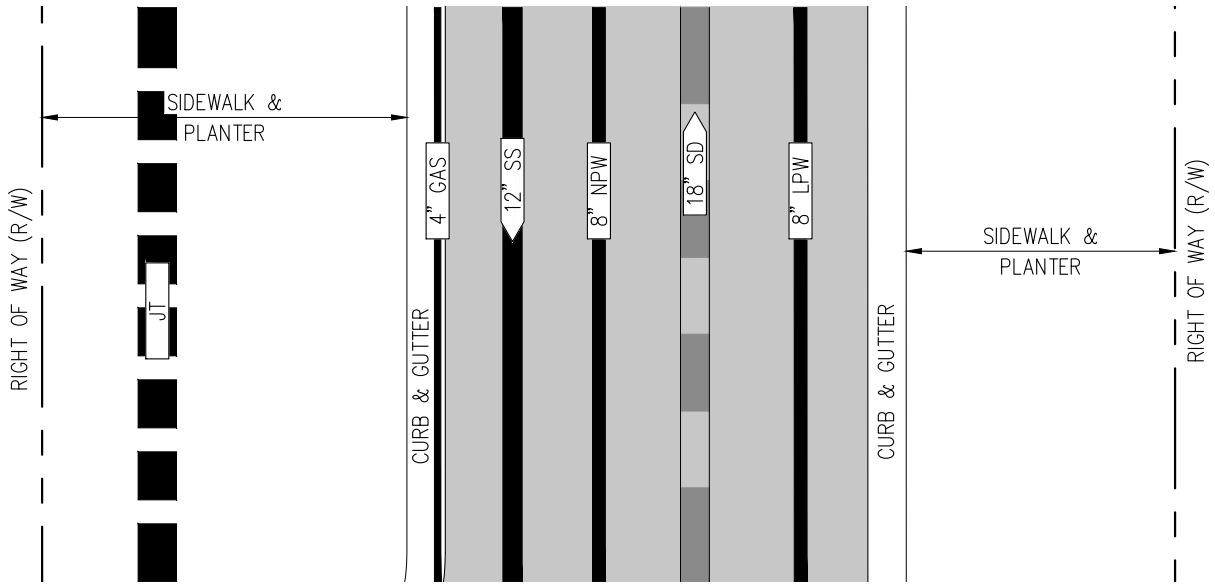
Figure 10.2 Utility Configurations



DELAWARE STREET
NORTH OF SEWER PUMP STATION

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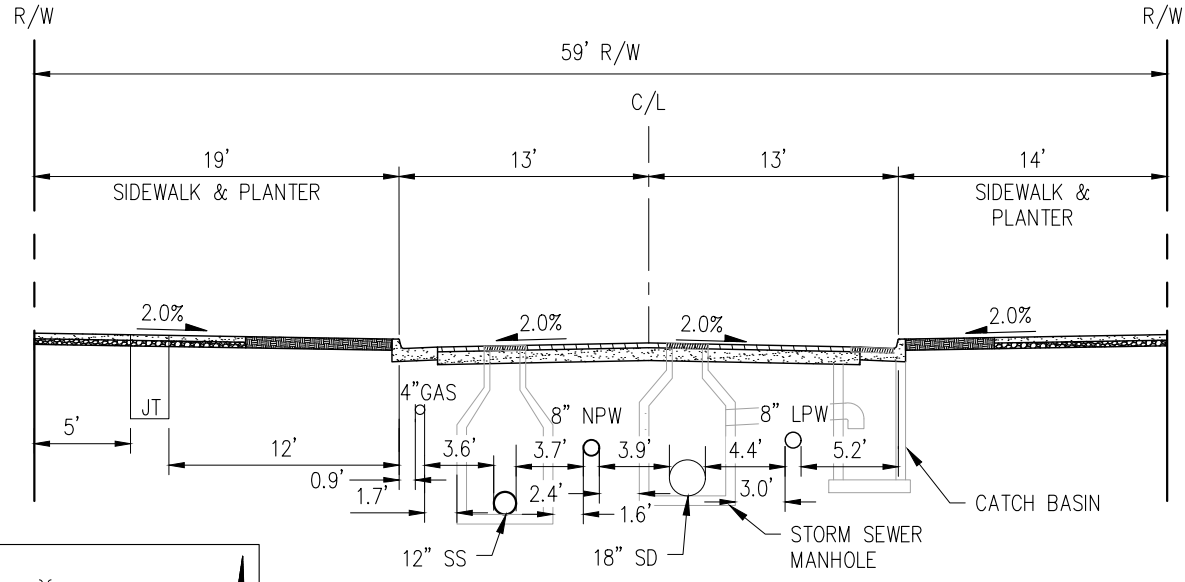

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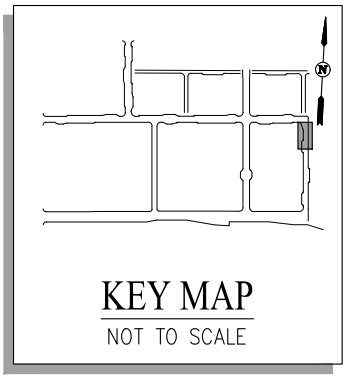

KEY MAP

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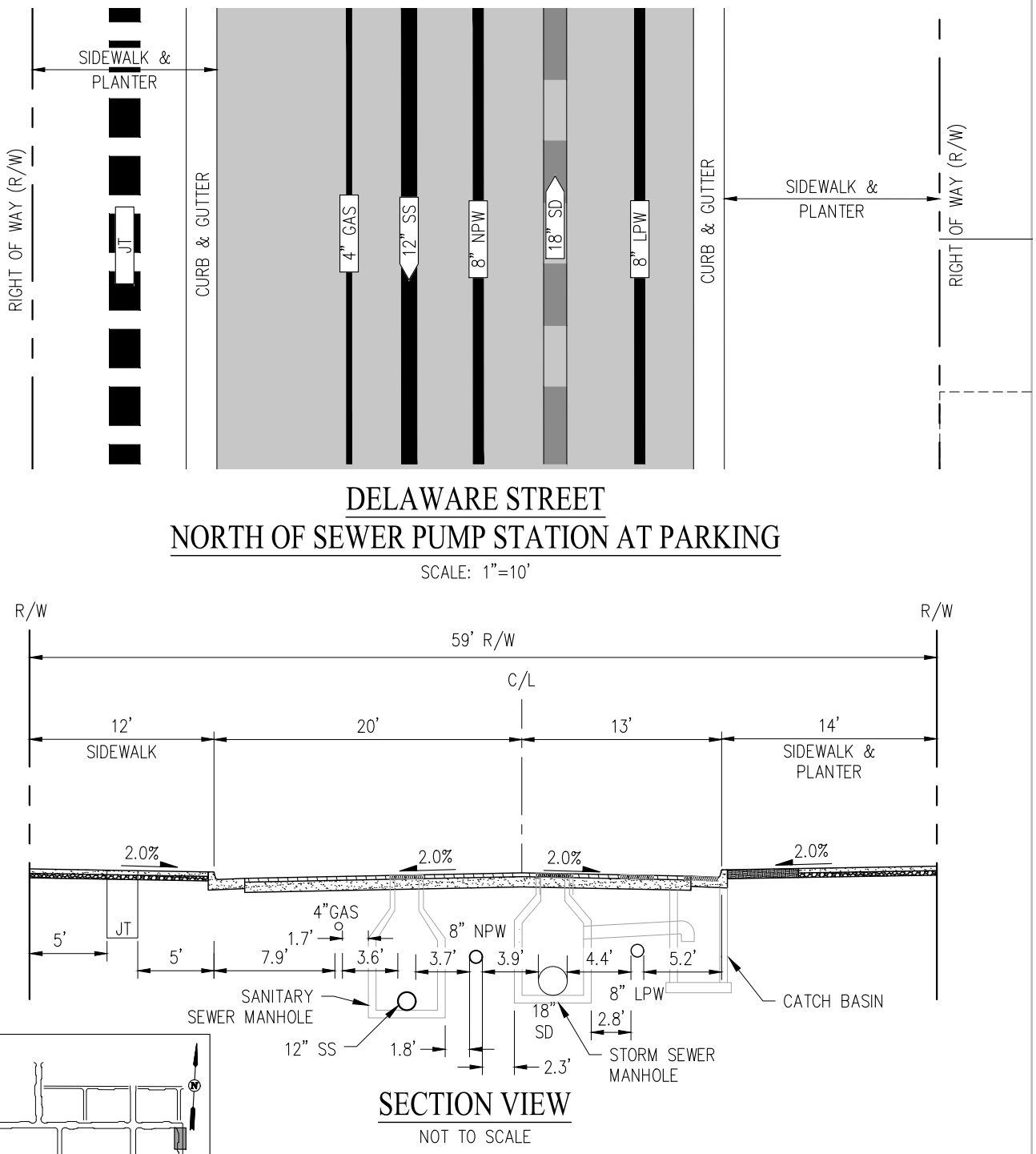
Figure 10.2 Utility Configurations



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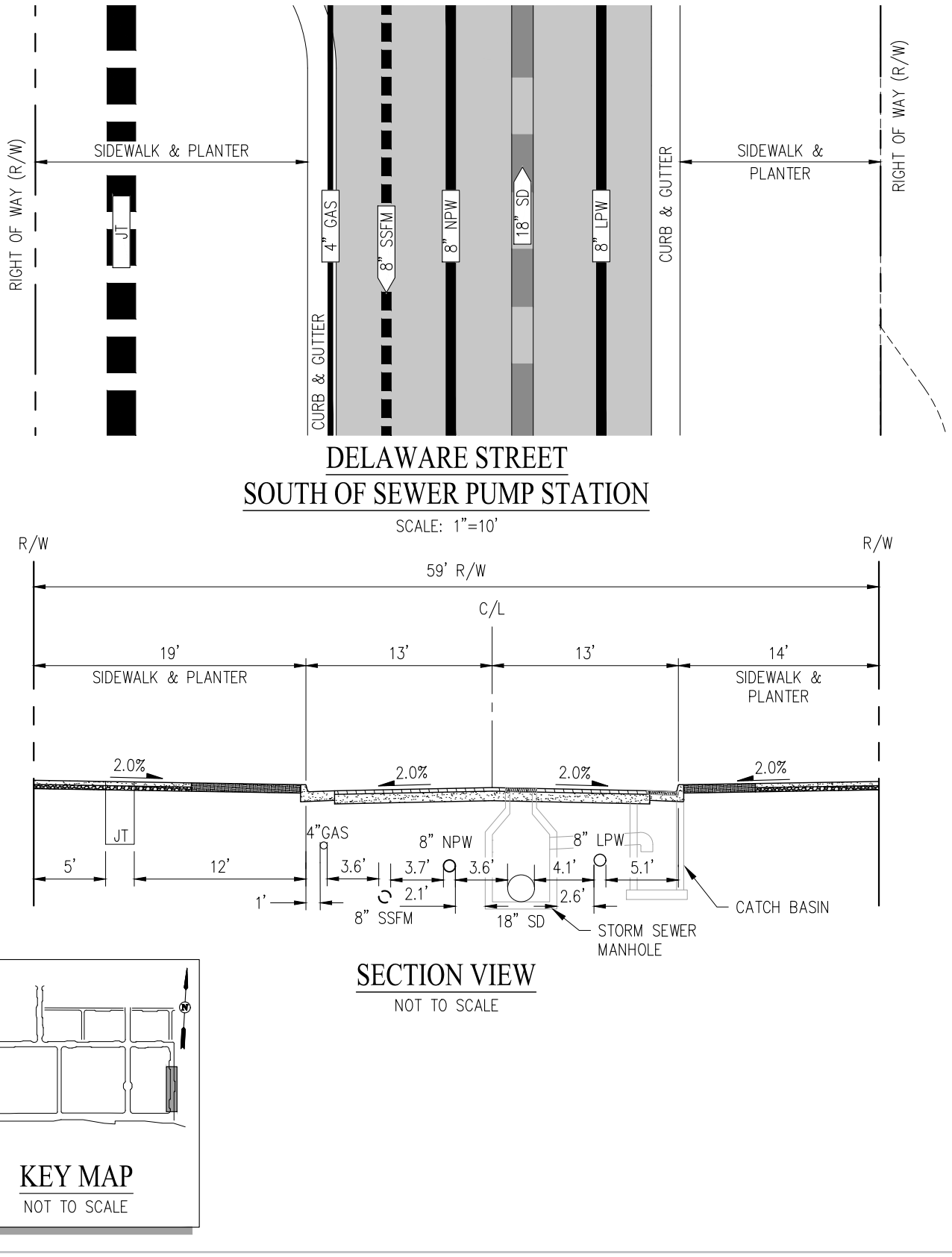

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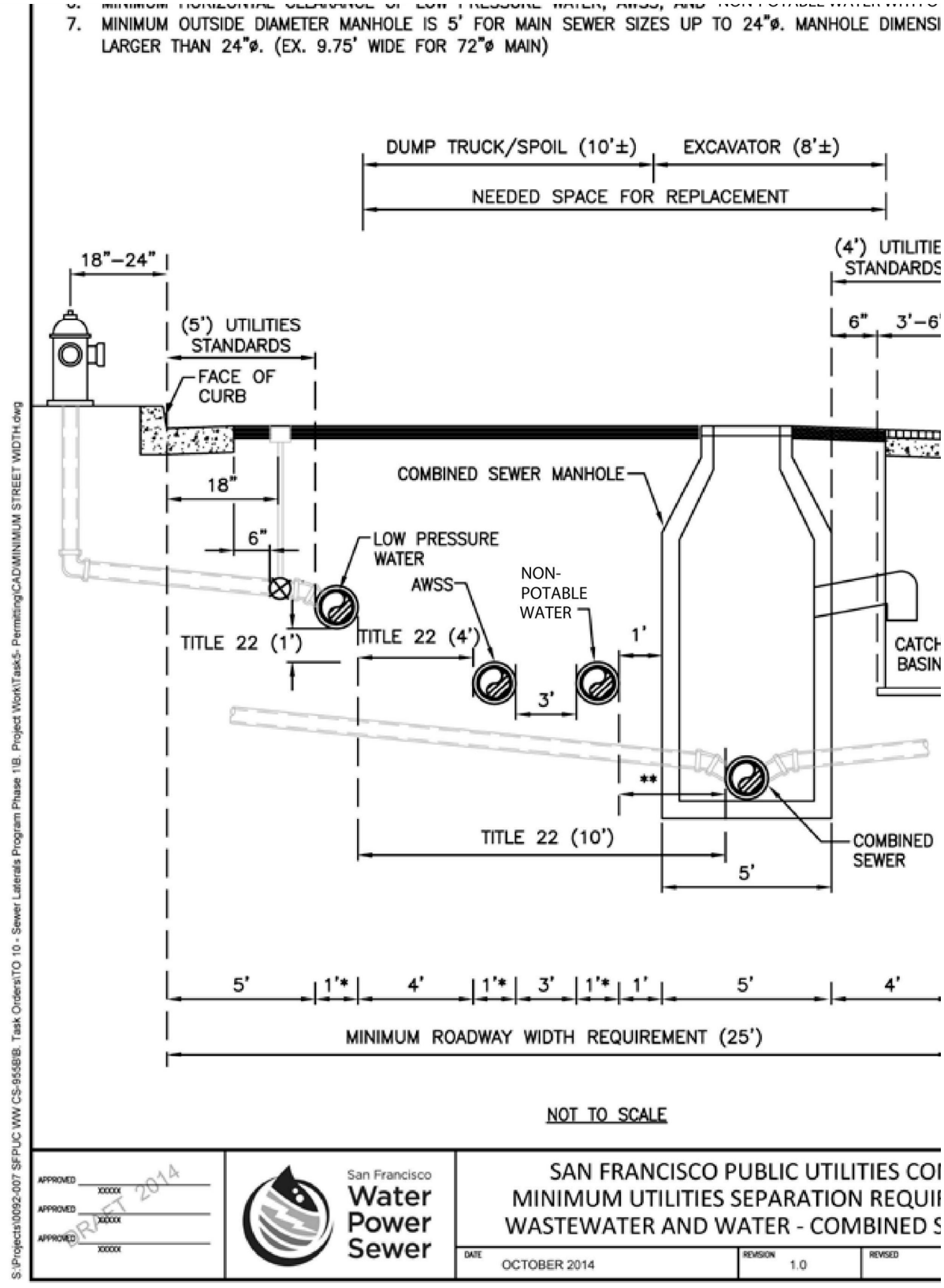


Figure 10.2 Utility Configurations

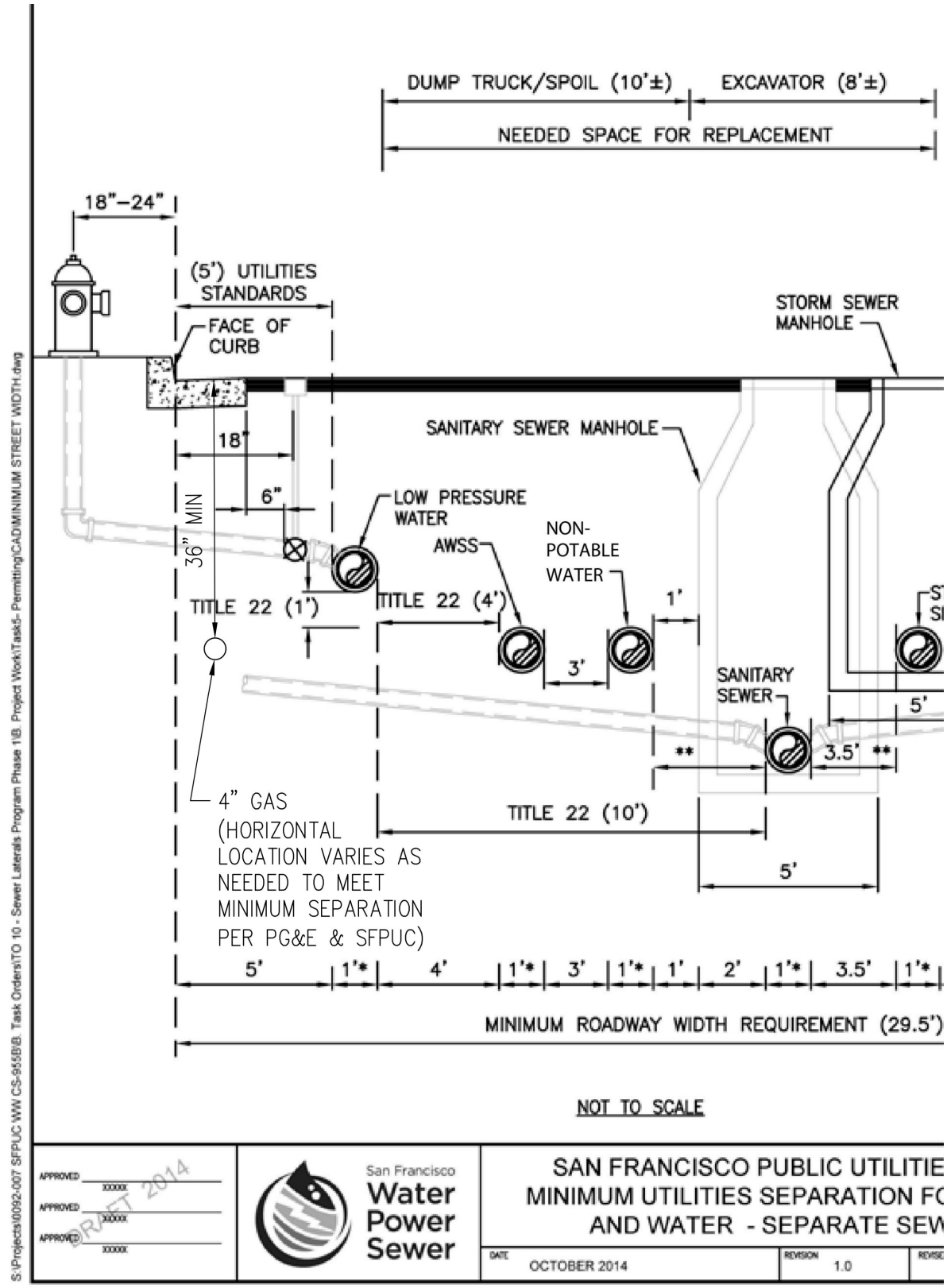


Figure 10.2 Utility Configurations

11 LOW PRESSURE WATER SYSTEM

11.1 Existing Low Pressure Water System

Potable water service will be provided by a water supply, storage, transmission and distribution system operated by the SFPUC. The proposed Project will connect to the SFPUC's Low Pressure Water (LPW) system for domestic supply and fire protection. The existing LPW system within the project vicinity includes eight and 12-inch diameter distribution pipelines and low-pressure fire hydrants within 22nd Street, Illinois Street and 23rd Street. Existing potable water services and fire services to the Project Site are located along the 23rd Street frontage and at the intersection of Illinois Street and Humboldt Street.

There was an existing robust on-site private fire protection system within the Project Site to provide fire protection for the decommissioned PG&E Power Plant. This system has mostly been abandoned with the closure of the Power Plant and demolition of the Tank Farm. The existing on-site private potable and fire water systems will be abandoned and removed as part of the site demolition.

11.2 Proposed Low Pressure Water System

11.2.1 Project Potable Water Demands

The proposed Project water demands are summarized in Table 11.1 below and in the Low-Pressure Water Master Plan ("LPWMP") and Project Water Demand Memo included in Appendices C and D. The Project's water demands have been calculated using the SFPUC's Non-Potable Water Program District Scale water calculator. The proposed low-pressure water system has been planned based upon the Maximum Residential Development Program scenario which generates the highest water demand. The required fire flows are consistent with the California Fire Code – Appendix B. The proposed Project includes district or centralized wastewater treatment plants that will divert, treat and reuse wastewater and rainwater for non-potable uses within the project. The use of non-potable water will reduce the potable water demand. This is reflected in the calculated water demands below.

Table 11.1. Potable Water Demands

Project Potable Water Demands	
Design Scenario	**Demand**
Domestic Average Day Demand ("ADD")	251,000 gpd
Maximum Day Demand ("MDD") including 1.2 peaking factor	301,200 gpd
Peak-Hour Demand ("PHD") including 2.65 peaking factor	665,150 gpd
Required Fire-Flow (2,000 gpm x 4 hours)	480,000 gpd
Maximum Potable Water Demand (Maximum Day Demand + Required Fire Flow)	**781,200 gpd**

11.2.2 Project Potable Water Supply

In accordance with the California Water Code, SFPUC has prepared and approved a revised Water Supply Assessment for the proposed Project. The results of this assessment conclude the SFPUC has sufficient short term and long-term water supplies to serve the proposed Project. See the approved revised Water Supply Assessment in Appendix D.

11.2.3 Project Low Pressure Water Distribution System

The proposed Project will include the design and construction of the proposed LPW system by the Developer. The proposed LPW system will be owned and maintained by the SFPUC upon completion and acceptance of the improvements. The proposed LPW system is depicted on Figure 11.1. The proposed LPW system is anticipated to consist of a network of 8-inch diameter low pressure water mains, fittings, valves, fire hydrants, service laterals, meters and appurtenances. The final LPW system pipeline sizes will be verified by the PUC's review of the hydraulic modeling in the Master Utility Plan.

The proposed LPW system will connect to the existing LPW system within 22nd Street, 23rd Street and Illinois Street. The existing 8-inch diameter main within 22nd Street is proposed to be replaced and relocated with the Pier 70 project. The project will connect to either the existing main or the replaced pipeline, depending on the timeframe of the Project connection relative to the Pier 70 improvements. The Project will replace the existing LPW main in 23rd Street as necessary to meet separation requirements to other utilities and proposed improvements as outlined in Section 10. The proposed LPW system will also connect to the existing 8-inch diameter pipeline in Illinois Street at the intersection with Humboldt Street.

The proposed LPW mains will be placed within the proposed Project public streets or within private property with a Public Utility Easement (Humboldt Plaza). The vertical and horizontal separation distances to other utilities will be consistent with the requirements outlined in Title 22 of the California Code of Regulations, the SFDPW 2015 Subdivision Regulations and the State of California Department of Health Services Guidance Memorandum 2003-02. The typical utility locations within each street section are depicted on Figure 10.2.

SFPUC will perform the required disinfections of new mains and connections to existing mains at the Developer's cost.

11.2.4 Low Pressure Water Design Criteria

The proposed LPW system is required to maintain a minimum system pressure of 20 psi and a maximum velocity of 14 fps maximum velocity during MDD plus Fire Flow design scenario. The LPW system will also maintain 40 psi minimum residual pressure and eight fps maximum velocity during PHD. The proposed LPW water system is modeled in the LPWMP to confirm the proposed system meets the pressure and flow requirements in each design scenario.

11.2.5 Proposed Low Pressure Water Fire Hydrant Locations

The LPW system will be the primary fire water supply for the Project Site. The proposed LPW fire hydrants will have a maximum radial separation of 300-feet between hydrants, or as specified in the California Fire Code – Appendix C. Additionally, the LPW hydrants will be placed within 100-feet of building fire department connections. The proposed LPW fire hydrant locations are depicted on Figure 11.2. The LPW system will be designed to provide the maximum daily demand plus a design fire flow of 2,000 gpm for a duration of 4 hours. The 2,000 fire flow will provide adequate fire protection for new and reuse construction per the California Fire Code – Appendix B. The Project will coordinate with the SFFD for the final locations of LPW fire hydrants within and surrounding the Project.

11.3 Low Pressure Water System Phasing

The proposed Project will design and install the new LPW system in phases as needed to support each proposed Development Phase consistent with the Project Phasing Plan. The extent of the proposed LPW system installed within each phase will be the minimum necessary to support each respective Development Phase. Each Development Phase will at minimum install the portions of the proposed LPW system within or adjacent to that Phase and will connect to existing reliable facilities as close to the Project Site as possible. The first Phase of development will include two points of connection to the existing LPW facilities within the vicinity of the Project, anticipated to be at 23rd Street and at either the 22nd Street / Georgia Street intersection or Humboldt Street / Illinois Street intersection. The second connection for Phase 1 to facilities in 22nd Street is subject to the status of redevelopment with the PG&E Sub-Area. These second connections through the PG&E Sub-Area will likely be interim, constructed to SFPUC standards but replaced once the final improvements within Maryland Street, Georgia Street and Humboldt Street are constructed. The timing of the Maryland Street connection is subject to PG&E completion of remediation within the Tank Farm area and Pier 70 development timeline Repairs or replacements of the existing facilities surrounding the Project will be made as necessary to support each proposed Development Phase. Interim LPW systems may be constructed and maintained by the Developer as necessary to maintain existing LPW facilities operational.

The SFPUC will be responsible for maintenance of existing LPW facilities. The SFPUC will be responsible for the new LPW facilities once construction of each Development Phase or a new LPW facility is complete and accepted by the SFPUC. Impacts to improvements installed with previously constructed portions of the Development due to the designs of subsequent phases will be the responsibility of the Developer and will be addressed prior to approval of construction documents for each subsequent Phase. For each Development Phase, the Developer will provide Phasing Plans depicting the existing LPW facilities and proposed phase of LPW facilities. The Plans and supporting reports will demonstrate that the proposed phase of LPW facilities will provide the required pressures and flow for that Development Phase.

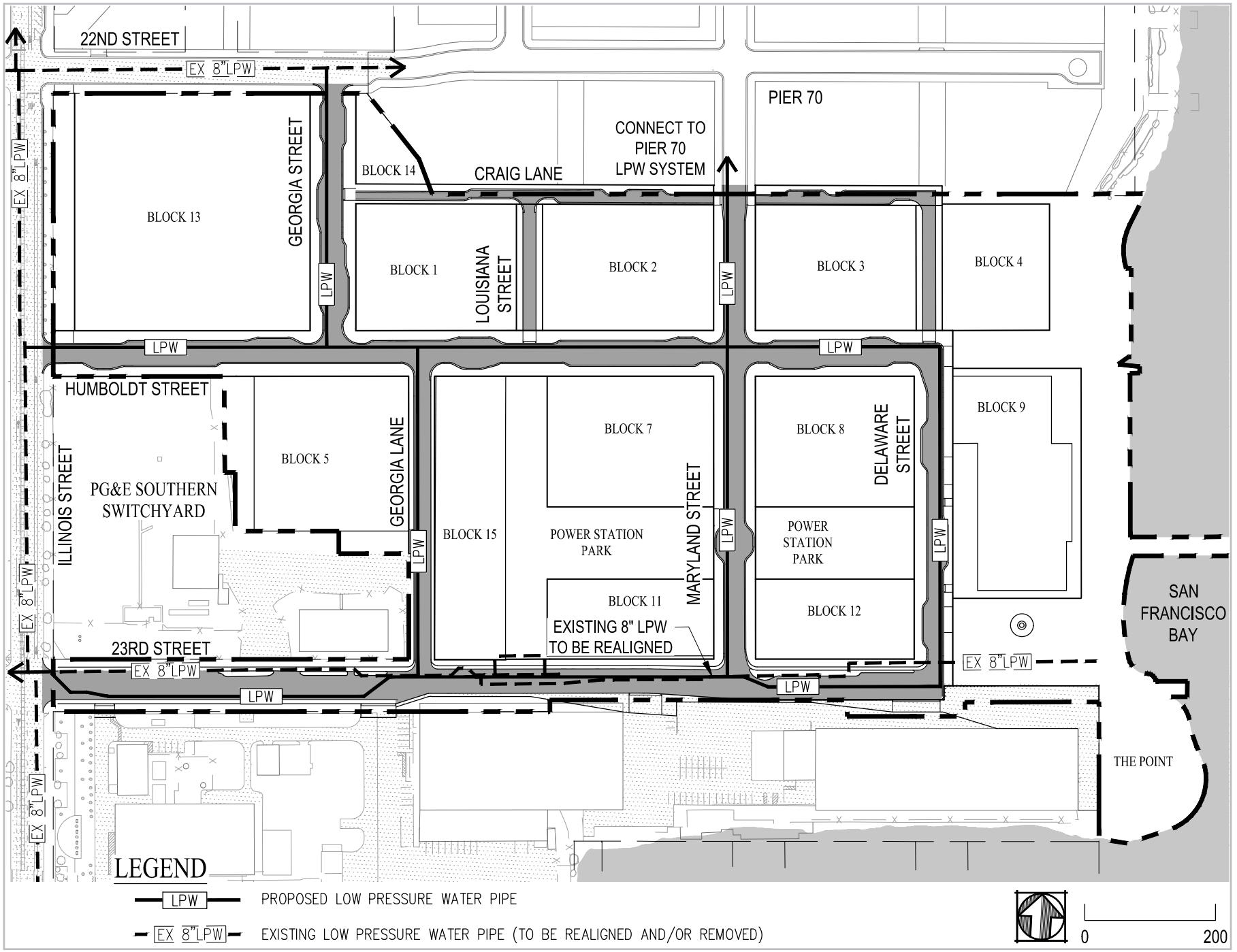


Figure 11.1 Low Pressure Water System

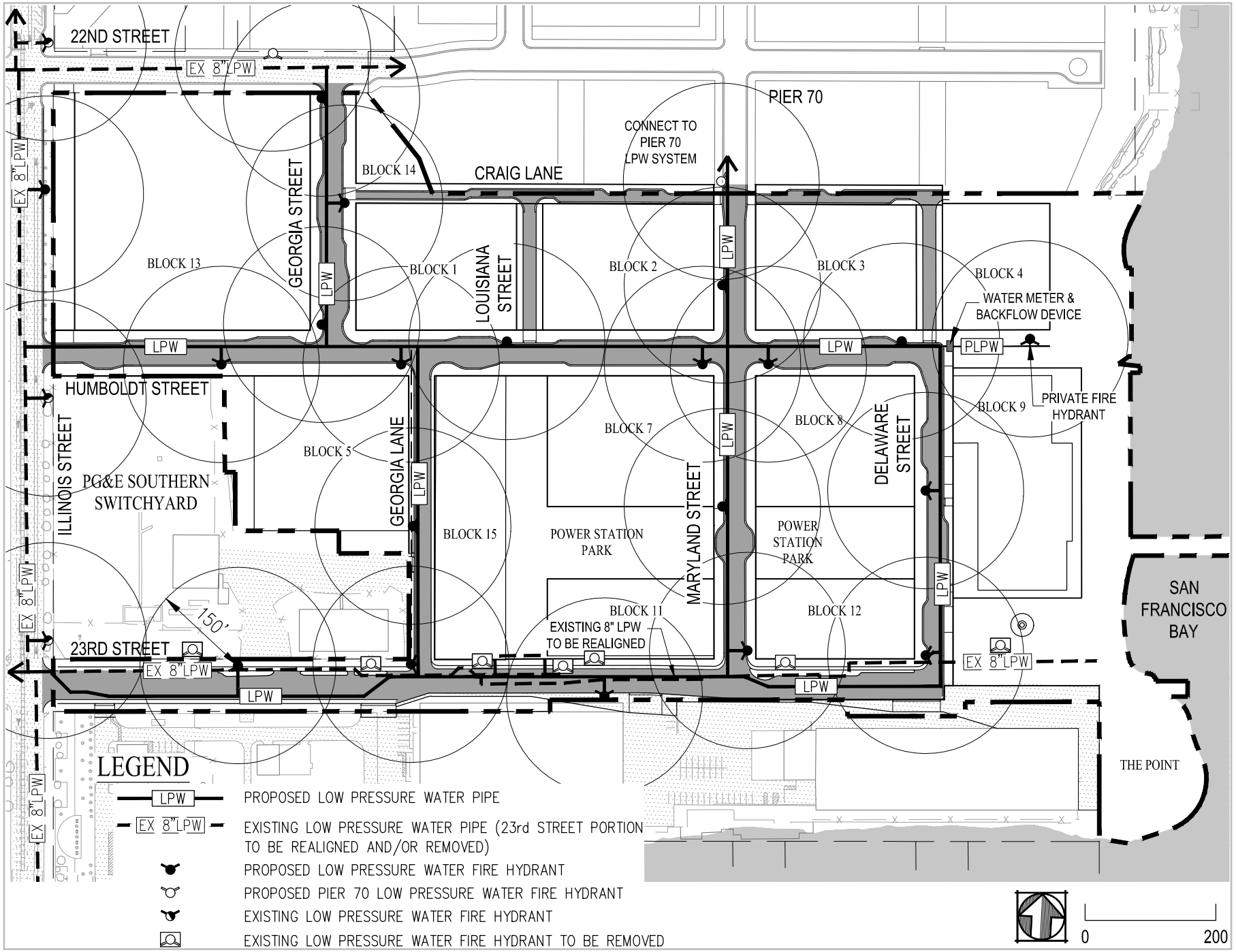


Figure 11.2 Proposed Fire Hydrant Locations

12 NON-POTABLE WATER SYSTEM

12.1 Existing Non-Potable Water System

The City's recycled water system does not currently extend to or serve the Project Site. The City does not have existing recycled water facilities within the vicinity of the Project Site.

12.2 Proposed Non-Potable Water Demands

The estimated non-potable water demands associated with the Project are summarized in Table 12.1. The Project non-potable water demands, associated with flushing, irrigation and cooling towers, have been calculated using the SFPUC's Non-Potable Water Program District Scale water calculator. The Project non-potable water system has been planned based upon the Project Variant Development Program scenario which generates the highest project non-potable water demands. See the Project Water Demand Memo in Appendix D.

Table 12.1. Non-Potable Water Demands

Project Non-Potable Water Demands	
Design Scenario	**Demand (gpd)**
Average Day Demand (ADD)	79,500
Maximum Day Demand (MDD) – Peaking Factor 1.4	111,300
Peak-Hour Demand (PHD) – Peaking Factor 3.0	238,500

12.3 Proposed Non-Potable Water System

The Project is located within the City's Designated Recycled Water Use Area and is subject to the Recycled Water Ordinance. Additionally, the Project is subject to the Non-Potable Water Ordinance.

The project will pursue one of the following three options for complying with the City's Non-Potable Water Ordinance. The section of non-potable water treatment system option will be made prior to the Phase 1 Street Improvement Permit.

- Localized district wastewater collection and treatment plants will treat wastewater generated within certain development blocks to comply with Article 12C of the San Francisco Health Code and deliver to Development Parcels through a new private non-potable water distribution system either within the public right-of-way or privately-owned parcels. (Note that an encroachment permit from the Department of Public Works would be required under this option and an exception from the Recycled Water Use Ordinance); or

- Centralized wastewater treatment plant will treat wastewater from the separated sanitary sewer system watershed and likely be located in Block 8, near the low point of this system. This treatment plant will treat wastewater to San Francisco's non-potable standard and deliver to Development Parcels through a new private non-potable water distribution system within the public right-of-way. (Note that an encroachment permit from the Department of Public Works would be required under this option and an exception from the Recycled Water Use Ordinance); or

- In the event the City constructs a regional recycled water treatment facility that provides recycled water to the Project Site, the proposed project may elect to connect to this system, delivering recycled water to Development Parcels through a new public non-potable water distribution system within the public right-of-way. In this case, the project would not construct a separate wastewater diversion, treatment and reuse systems on private parcels.

12.3.1 Localized District Wastewater Treatment Option

The Localized District Wastewater Treatment Option will include privately owned and maintained wastewater collection and treatment plants within certain development blocks. The best candidates for wastewater collection and treatment are Blocks 1, 4, 5, 7, and 8; they are planned for residential land use, which generates the largest amount of wastewater on site. The number of wastewater plants incorporated into the project will meet the need of district-wide non-potable demands for flushing, irrigation, and cooling towers. If wastewater collection and treatment in the Blocks identified above do not meet the district-wide needs, additional residential buildings will incorporate wastewater collection and treatment (Block 9 and 13).

The treatment plants will treat wastewater to meet San Francisco's Health Code Article 12C Water Quality Standards. Pumps required to maintain pressurization in wastewater collection lines and/or non-potable water distribution lines will be provided by the vertical developer as necessary.

The treatment plants will supply non-potable water to all development blocks within the Project by connecting to a private non-potable water distribution system. The non-potable water will be distributed to all buildings and open space areas within the Project. The irrigation and building non-potable water demands will be met by the non-potable water supplied by the district wastewater treatment plants. Wastewater flows in excess of the non-potable water demand will be discharged to the sanitary sewer system, Blocks 1 and 5 to the combined sewer system and Blocks 4, 7 and 8 to the separated sanitary sewer system. The wastewater treatment plants will be enclosed, and odor control units will be installed to vent to the atmosphere. Each of these facilities are anticipated to require approximately 500 square feet within a within a Building. Each facility will also likely include up to two

storage tanks totaling to 25,000 gallons. These treatment plants may be integrated to also treat and harvest rainwater, in which case the size of the storage tanks would increase.

This option will include the design and construction of a proposed private non-potable water distribution system by the Developer. The private non-potable water system will be located in the public right-of-way and will consist of 8-inch diameter low pressure mains, fittings, valves, service laterals, meters and appurtenances. The extents of the private non-potable water pipelines will be limited to the portions of the public right-of-way's necessary to provide service to the Development Blocks and Open Spaces. Accordingly, in this option the project intends to submit an exemption from the Recycled Water Ordinance, as there will be portions of the public right-of-way that the non-potable water pipelines are not needed to be installed. The proposed private non-potable water system associated with the Localized District Wastewater Option is depicted on Figure 12.1.

The project will prepare a non-potable water implementation plan for review and approval by the SFPUC. This plan will also demonstrate that this option will comply with the requirements of San Francisco's non-potable water program, including the San Francisco Department of Health rules and regulations regarding the operation of alternate water source systems.

12.3.2 Centralized Wastewater Treatment Option

The Centralized Wastewater Treatment Option will centralized privately owned and maintained wastewater treatment plant within Block 8. This location is ideal for a centralized facility, as it is near the low point of the sanitary sewer system, which generates the largest amount of wastewater on site. The centralized wastewater plant incorporated into the project will meet the need of district-wide non-potable demands for flushing, irrigation, and cooling towers. If the centralized wastewater collection and treatment at Block 8 does not meet the district-wide needs, additional residential buildings will incorporate wastewater collection and treatment

The treatment plant will treat wastewater to meet San Francisco's Health Code Article 12C Water Quality Standards. Pumps required to maintain pressurization in wastewater collection lines and/or non-potable water distribution lines will be provided by the vertical developer as necessary.

The treatment plant will supply non-potable water to all development blocks within the Project by connecting to a private non-potable water distribution system. The non-potable water will be distributed to all buildings and open space areas within the Project. The irrigation and building non-potable water demands will be met by the non-potable water supplied by the district wastewater treatment plants. Wastewater flows in excess of the

non-potable water demand will be discharged to the sanitary sewer system. The wastewater treatment plants will be enclosed, and odor control units will be installed to vent to the atmosphere.

This option will include the design and construction of a proposed private non-potable water distribution system by the Developer. The private non-potable water system will be located in the public right-of-way and will consist of 8-inch diameter low pressure mains, fittings, valves, service laterals, meters and appurtenances. The extents of the private non-potable water pipelines will be limited to the portions of the public right-of-way's necessary to provide service to the Development Blocks and Open Spaces. Accordingly, in this option the project intends to submit an exemption from the Recycled Water Ordinance, as there will be portions of the public right-of-way that the non-potable water pipelines are not needed to be installed. The proposed private non-potable water system associated with the Centralized Wastewater Treatment Option is depicted on Figure 12.1.

The project will prepare a non-potable water implementation plan for review and approval by the SFPUC. This plan will also demonstrate that this option will comply with the requirements of San Francisco's non-potable water program, including the San Francisco Department of Health rules and regulations regarding the operation of alternate water source systems.

12.3.3 City Recycled Water Treatment Facility Option

In the event that the City constructs recycled water treatment facility and distribution pipelines in the vicinity of the project and the project elects to connect to this system, a new public recycled water distribution system will be constructed within the public right-of-way.

The distribution system will provide recycled water to all buildings and open spaces within the project. The irrigation and building non-potable water demands will be met by the recycled water supplied by this system. The public recycled water system will be located in the public right-of-way and will consist of 8-inch diameter low pressure mains, fittings, valves service laterals meters and appurtenances. The proposed public recycled water system associated with the City supply option is depicted on Figure 12.2.

12.4 Rainwater Harvesting

The project may potentially integrate rainwater harvesting into some of the Development Blocks. This is intended to achieve compliance with the City's Stormwater Management Requirements, specifically the required runoff flow and volume reduction within the combined sewer areas as discussed in Section 16. Where feasible, the rainwater harvesting will be integrated to the

Localized District Wastewater Treatment Plants within the certain Development Blocks planned to have these features.

12.5 Non-Potable Water System Phasing

The proposed Project will design and install the new non-potable water system in phases as needed to support each proposed Development Phase consistent with the Project Phasing Plan. The extent of the proposed non-potable water system installed within each phase will be the minimum necessary to support each respective Development Phase. Each Development Phase will at minimum install the portions of the proposed non-potable water system and treatment plant(s) within or adjacent to that Phase as required to supply non-potable water to each Development Phase.

Impacts to improvements installed with previously constructed portions of the Development due to the designs of subsequent phases will be the responsibility of the Developer and will be addressed prior to approval of construction documents for each subsequent Phase.

For each Development Phase, the Developer will provide Improvement Plans describing and depicting the existing non-potable water facilities and proposed phase of non-potable water facilities. The Phasing Plans and supporting reports will demonstrate that the proposed phase of non-potable water facilities will include on-site treatment plant(s) to supply the required non-potable water demands and pipeline distribution systems to provide the required pressures and flow for that Development Phase.

12.6 Shared District Thermal Energy Plants

The project may elect to construct shared thermal energy plants, if the project sponsor determines that such system would be feasible. Such a system would use shared thermal energy plants within the project site to recover waste heat from commercial buildings for heating and cooling use in residential buildings to reduce the project's overall energy and water demands. A connection would be provided between residential and commercial building pairs when (1) such pairing occurs, and (2) a connection can be made without crossing a public right of way. Anticipated residential-commercial pairings include Blocks 1 and 2; 3 and 4; 7 and 11 and/or 15; and 8 and 12. If any of the residential-commercial pairings do not occur as anticipated due to a change in land use within a flex parcel, there will be no requirement to implement a shared thermal energy plant within that pairing.

Shared thermal energy plant equipment installed in commercial buildings would include heat recovery cooling equipment (heat recovery chillers) to provide excess hot water to the adjacent residential buildings for space heating and domestic hot water production. Residential buildings

would install space heating and domestic hot water equipment capable of utilizing the hot water provided by the adjacent commercial building.

If construction of shared thermal energy plants in residential building precedes construction of the commercial building, temporary provision of hot water for space heating and domestic hot water would be provided. In the case of this temporary provision, electric or natural gas may be used to produce hot water.

12.7 All-Electric Building Heating and Cooling

The project may elect to eliminate the use of natural gas for space heating and domestic water use, which would reduce operational greenhouse ("GHG") emissions and limit on-site combustion. During the design of the mechanical system for each building, the feasibility of systems that provide for all-electric space heating and domestic hot water production shall be explored. Among other factors, future utility rates and the impact on affordability will be considered as part of the determination of feasibility made by the Project Sponsor for using all-electric systems for building heating and cooling.

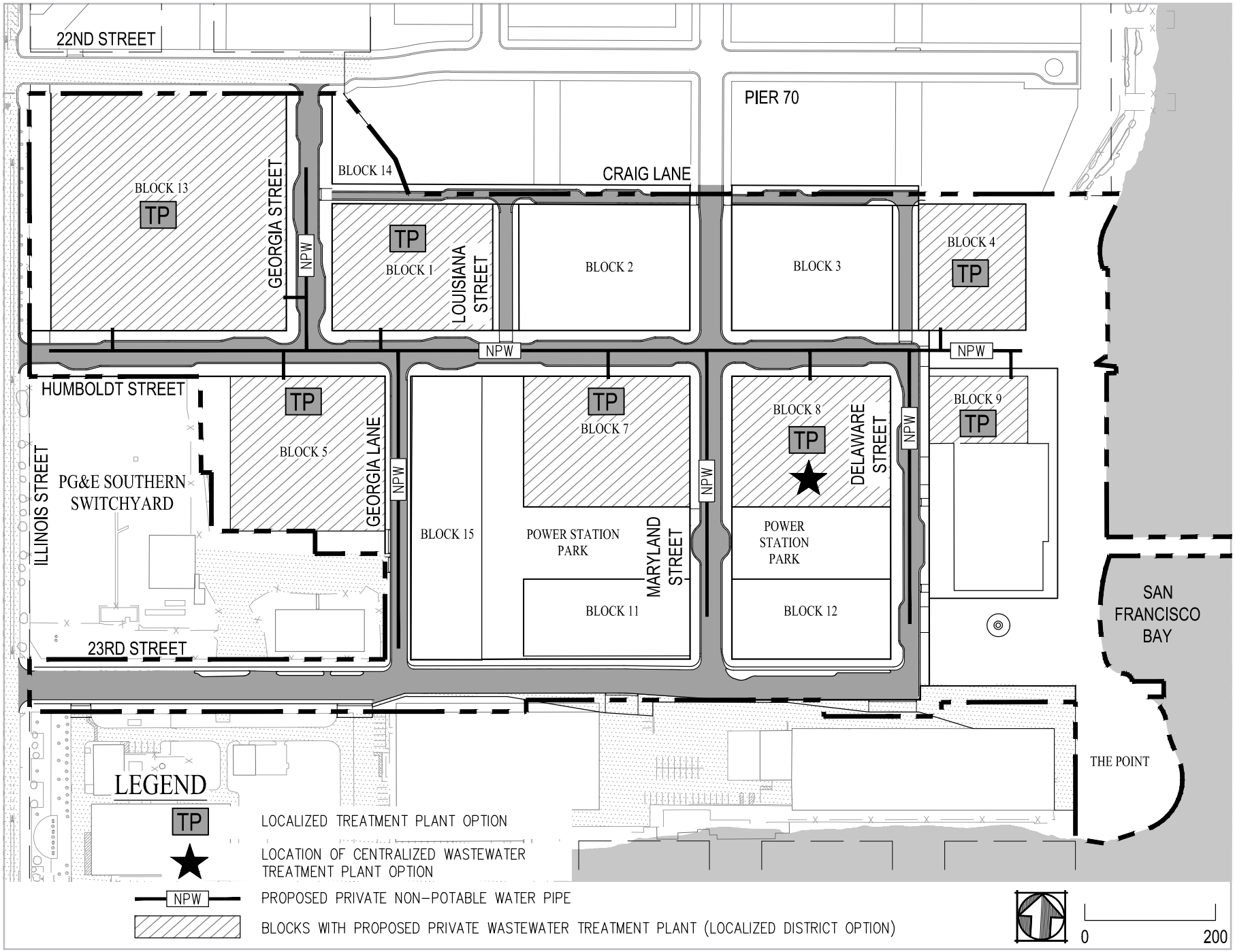


Figure 12.1 Proposed Non-Potable Water System - Localized District and Centralized District Treatment Plant Options

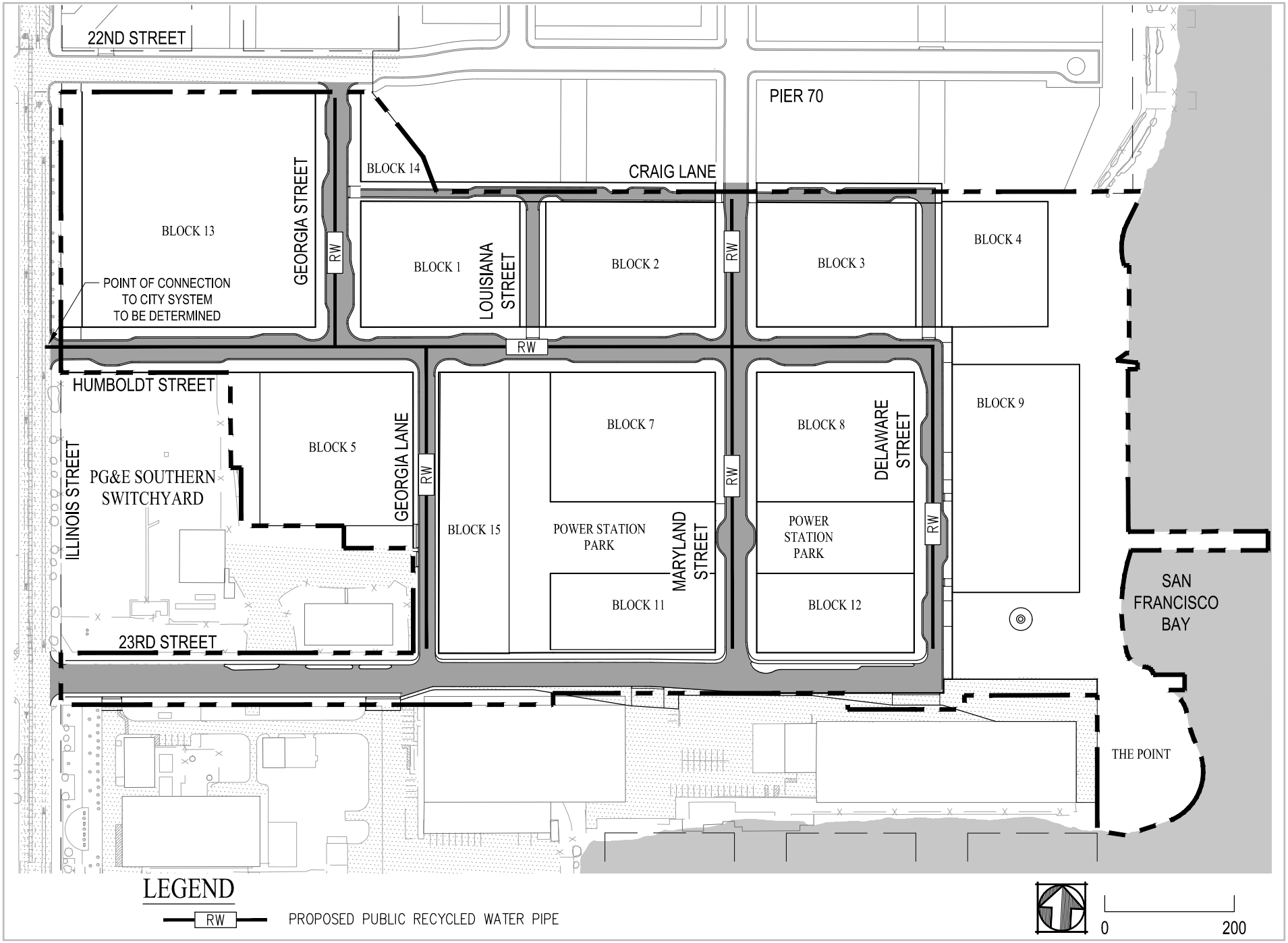


Figure 12.2 Proposed Public Recycled Water - City Supply Option

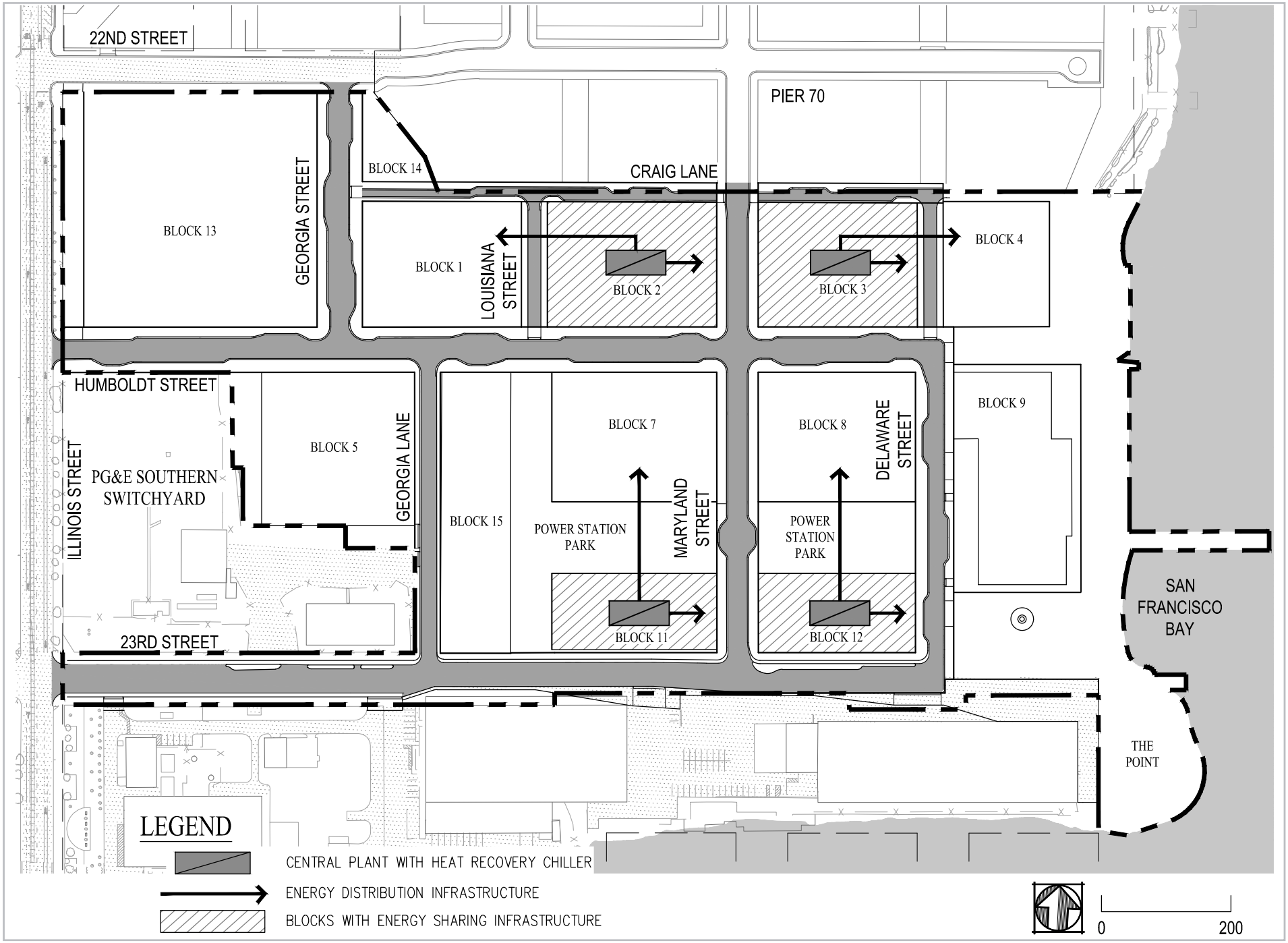


Figure 12.3 Shared Localized Thermal Energy Plants

13 AUXILIARY WATER SUPPLY SYSTEM (AWSS)

13.1 Existing AWSS System

The SFPUC, in cooperation with the SFFD, owns and operates the Auxiliary Water Supply System ("AWSS"). The AWSS is a high pressure, non-potable water distribution system dedicated to fire suppression specifically designed for reliable operation after a major seismic event. The existing AWSS system within the vicinity of the project includes a 14-inch diameter main in 3rd Street.

13.2 AWSS Design Criteria

The proposed Project will meet the fire protection requirements established by the SFFD to meet their City-wide objectives for fire protection following a seismic event. This includes the extension and installation of AWSS facilities to and within the Project. The proposed AWSS facilities will be located in the proposed streets that are either public right-of-way or private property with a public utility easement (23rd Street), as approved by the SFPUC.

The AWSS facilities will be placed with vertical and horizontal separation distances to other utilities as identified in Section 10.

13.3 Proposed AWSS System

The proposed Project will install new AWSS facilities within the Project and extending and connecting to the existing AWSS main in 3rd Street. The proposed AWSS facilities will include a 20-inch diameter main extension within 23rd Street connecting to the existing 14-inch main in 3rd Street and extending to the proposed intersection of Maryland Street and 23rd Street. Additionally, a 20-inch diameter main will be installed in Maryland Street extending from 23rd Street to the Project northern boundary line where it will connect to the AWSS main to be installed by the Pier 70 project. The proposed 20-inch pipeline will be earthquake resistant ductile iron pipe material. The Project will also install AWSS fire hydrants, at a maximum spacing of 500 feet, at locations determined by the SFPUC and SFFD. The proposed AWSS facilities, including proposed hydrant locations, are depicted on Figure 13.1.

13.4 AWSS Phasing

The proposed Project will design and install the new AWSS facilities in phases consistent with the Project Phasing Plan. The extent of the proposed AWSS installed within each phase will be the minimum necessary to support each respective Development Phase. Each Development Phase will at minimum install the portions of the proposed AWSS facilities within or adjacent to that Phase and will connect to existing reliable facilities as close to the Project Site as possible. Repairs or replacements of the existing facilities surrounding the Project will be made as necessary to support each proposed Development Phase.

The SFPUC will be responsible for maintenance of existing AWSS facilities. The SFPUC will be responsible for the new AWSS facilities once construction of each Development Phase or a new AWSS facility is complete and accepted by the SFPUC. Impacts to improvements installed with previously constructed portions of the Development due to the designs of subsequent phases will be the responsibility of the Developer and will be addressed prior to approval of construction documents for each subsequent Phase.

The SFPUC and SFFD will provide flow and pressure capacities of the existing AWSS the proposed AWSS is connecting to for each Development Phase. The Developer will provide Phasing Plans and supporting reports describing and depicting the proposed phase of AWSS facilities and demonstrating the facilities will provide the required pressures and flow for that Development Phase. The Phasing Plans will assume the AWSS system through the Pier 70 Project is completed by others.

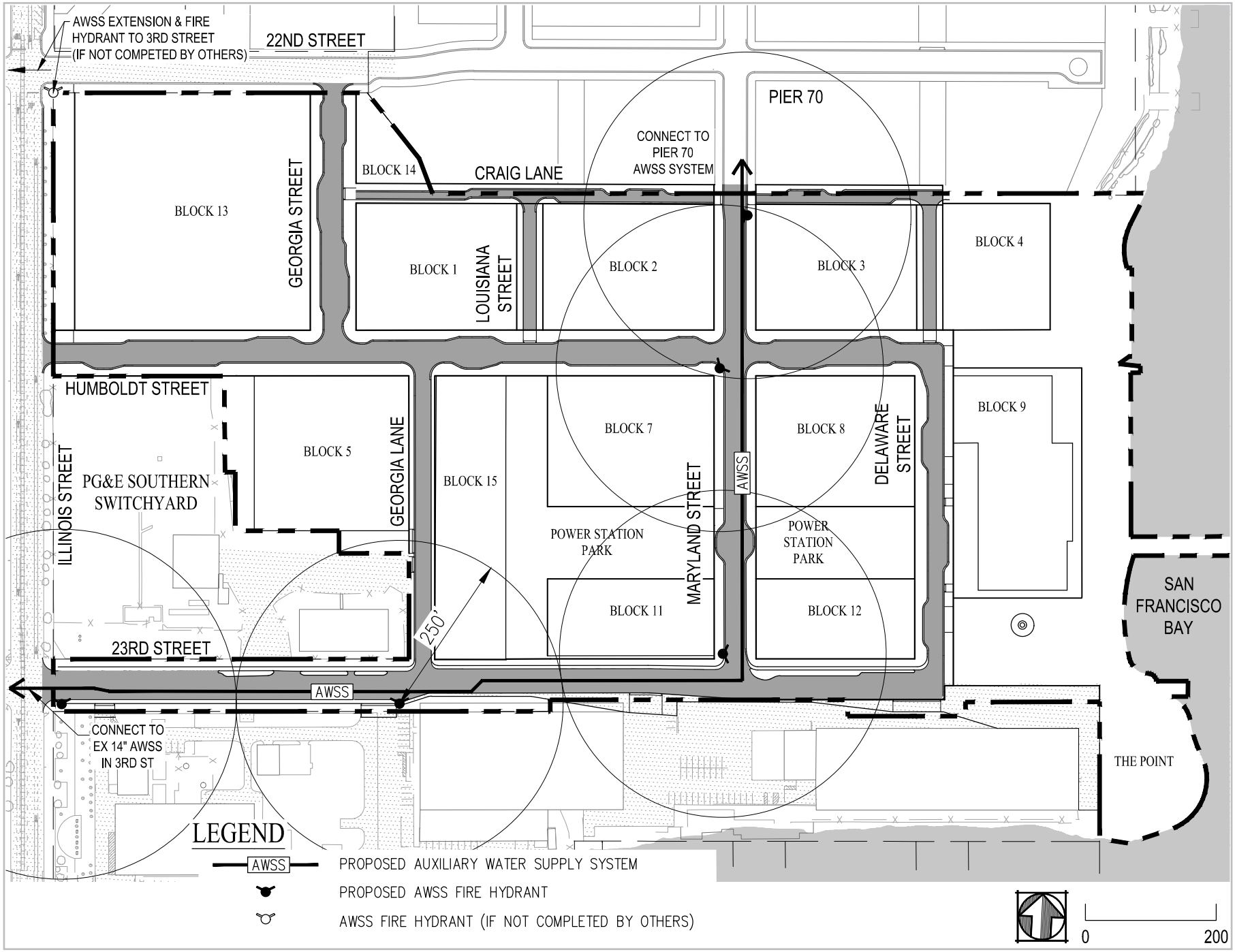


Figure 13.1 Proposed AWSS System

14 SANITARY SEWER SYSTEM

14.1 Existing Combined Sewer System

The Project is within the Combined Sewer Area – Bayside Drainage Basin. The historical sanitary sewer generated at the Project site was associated with the PG&E Power Plant operations, which was closed in 2011. Since the PG&E Power Plant was closed in 2011, the site has had on-going environmental remediation activities and some of the structures have been since demolished. The existing sanitary sewer flow generated at the Project has been further reduced as there are only a small amount of remaining employees and uses within the project site.

The existing conditions within the Project consists of several buildings in varying states of activity as the as well as numerous parking lot areas and three recently deconstructed holding tanks. The Project is nearly 100% impervious. The sanitary sewer and stormwater runoff generated from the existing buildings within the Project is collected by a network of private pipelines, holding tanks and pump stations within the Project area. This private system discharges the Project wastewater to the existing combined sewer 12-inch diameter pipeline located in 23rd Street, along the south side of Station A.

The combine sewer pipeline within 23rd Street connects to a 27-inch gravity trunk main in Illinois Street, which conveys wastewater southerly and eventually to the Southeast Treatment Plant.

There is an existing 12-inch diameter pipeline and drainage inlets in Humboldt Street near the intersection with Illinois Street. This existing system only collects stormwater flows from the PG&E switchyard areas and connects to the 27-inch gravity trunk main in Illinois Street.

There are additional proposed combined sewer pipelines planned within 22nd Street associated with the Pier 70 project. These facilities will connect to the Pier 70 combined sewer system which consists of pipelines, storage and the SFPUC 20th Street Pump Station. This system discharges to the existing combined sewer system within 20th Street, which eventually also drains to the 27-inch gravity trunk main in Illinois Street. See Figure 14.1 depicting the existing combined sewer system within the vicinity of the Project.

The Project is comprised of two stormwater watersheds defined by the existing topography of the Project site. The stormwater runoff from the western watershed is collected by the existing combined sewer facilities in Humboldt Street and 23rd Street. The stormwater runoff from the eastern watershed is collected and conveyed to existing outfalls to the Bay. See Figure 14.2 depicting the extents of the two existing stormwater watersheds within the Project.

14.2 Proposed Sanitary Sewer Flows

The proposed Project estimated sanitary sewer flow assumes a return of 95% on the potable water demand and 100% on the non-potable water for the Average Day Demands. The potable and non-potable water demand calculations associated with the proposed Project are estimated using the SFPUC's Non-Potable Water Program District Scale Water Calculator. The output from the calculator is enclosed in Appendix D.

A peaking factor of three was applied to the Average Daily Dry Weather Flow ("ADWF") to determine the Peak Dry Weather Flow ("PDWF"). The resulting ADWF for the proposed Project is 309,810 gpd or 215 gpm. The proposed Project is anticipated to generate a PDWF of 929,430 gpd or 645 gpm.

14.3 Downstream Combined Sewer Facilities

Preliminary wastewater modeling for the Project have been coordinated with the SFPUC to confirm that the existing combined sewer system facilities have adequate capacity for the Project. The modeling did not identify additional combined sewer system discharge events or system freeboard deficiencies created by the additional wastewater flows from the Project to the existing system.

The existing 12-inch pipeline in 23rd Street is currently planned for replacement through the SFDPW Contract 2710J Various Locations No. 28 Pavement Renovation and Sewer Replacement project. The SFPUC has confirmed the proposed pipeline replacement will have adequate capacity to accommodate the proposed Project wastewater flows.

14.4 Proposed Sanitary Sewer System

The proposed separated sanitary sewer system will maintain the existing drainage patterns within the Project site. The topography and site grading will be configured to provide clear differentiation of the two sewersheds within the Project. The sanitary sewer generated within the eastern watershed is proposed to be collected and conveyed by a proposed separated sanitary sewer system to be constructed by the Developer. The wastewater generated within the western watershed is proposed to be collected and conveyed by a proposed combined sewer system to be constructed by the Developer. The proposed sewershed limits that comprise the Project are depicted on Figure 7.3. The proposed separated sanitary sewer systems are described further below and depicted on Figure 14.3.

The proposed combined sewer system in the northern portions of Georgia Street and within the western watershed will connect to the proposed combined sewer system in 22nd Street that is proposed to be installed by the Pier 70 project. The Project will coordinate with the SFPUC and the Pier 70 project to ensure the necessary capacity for these wastewater flows are accommodated by the Pier 70 system.

14.4.1 Proposed Separated Sanitary Sewer System

The sanitary sewer generated within the Project eastern sewershed will be collected and conveyed by a proposed separated sanitary sewer system. The proposed separated sanitary sewer system is depicted on Figure 14.3. The separated sanitary sewer system will be designed and constructed by the Developer. The separated sanitary sewer design will be reviewed and approved by the SFPUC. The proposed separated sanitary sewer system will consist of 12-inch diameter collection pipelines that convey sanitary sewer by gravity to a pump station located near Delaware Street. The pump station will include an emergency back-up generator. The pump station control panel and emergency generator are proposed to be located in an enclosure placed in the open space adjacent to Delaware Street and Block 9. This facility will be encompassed by a public utility easement. A sanitary sewer force main will extend from the pump station southerly in Delaware Street and westerly in 23rd Street, eventually discharging to the existing combine sewer system in 23rd Street.

The proposed pipelines will be constructed in accordance with the City of San Francisco 2015 Subdivision Regulations and SFPUC Wastewater Utility Standards. The minimum service laterals to the buildings are to be six inches and eight inches, depending on the building use, size and demands. Laterals will have a fresh air inlet and trap in compliance with the Subdivision Regulations. Manhole covers will be solid with manhole spacing set at a maximum of 300 feet apart in linear distance, and up to 350 feet apart with approval from the SFPUC, and at changes in pipeline diameter, grade or alignment. Collection pipelines will be designed to have sufficient capacity to convey the average day design sanitary sewer flows when flowing half full based on depth (d/D = 0.50) and flowing three quarters full based on depth (d/D=0.75) for peak day design flows. The slope of the collection pipelines will maintain a minimum flow velocity of two ft/sec under average flow conditions. See Figure 10.2 depicting the proposed separated sanitary sewer pipeline locations relationship to other utilities and street improvements.

Upon completion of construction by the Developer and improvement acceptance by the SFPUC, the proposed separated sanitary sewer system will be maintained and owned by the SFPUC.

14.4.1.1 Northern Connection Alternative

There is an alternative configuration of the separated sewer system that would connect to the north, to the Pier 70 Combined Sewer System. This alternative would eliminate the pump station located within the Project. The proposed sanitary sewer system would be configured to convey the Project sanitary sewer by gravity flow to the Pier 70 System located in Maryland Street. This would require accelerating to Phase 1 the installation of this pipeline in Maryland Street, north of Humboldt Street for both the segment in PPS and the segment in P70 to 22nd Street. This will require construction coordination with PG&E's planned remediation of the PPS "Tank Farm" area and construction coordination with P70. This alternative is subject to further coordination and evaluation between the Project, Pier 70 and SFPUC.

14.4.2 Proposed Combined Sewer System

The wastewater generated within the Project's western sewershed will be collected and conveyed by a proposed combined sewer system. The proposed combined sewer system is depicted on Figure 14.3. The combined sewer system will be designed and constructed by the Developer. The combined sewer design will be reviewed and approved by the SFPUC. The proposed combined system will consist of collection pipelines ranging from 12" to 18" in diameter that convey sanitary sewer and stormwater by gravity to the surrounding existing combined sewer facilities in Illinois Street, 23rd Street and 22nd Street. The combined sewer system will be designed in accordance with the Subdivision Regulations, maintaining four feet of freeboard and designed to protect from flooding related to potential overland flows.

Figure 10.2 depicting the proposed combined sewer pipeline locations relationship to other utilities and street improvements.

Upon completion of construction by the Developer and improvement acceptance by the SFPUC, the proposed combined sewer system will be maintained and owned by the SFPUC. The SFPUC acceptance of infrastructure will occur upon the City' acceptance of the public streets associated with each phase.

14.5 Phases for Sanitary Sewer System Construction

The Developer will design and install the new separated sanitary sewer system and combined sewer system based on the Project Phasing Plan and as needed to facilitate each specific proposed Development Phase. The amount and location of the proposed sanitary sewer facilities installed will be the minimum necessary to support the Development Phase. Phase 1 will include the design and construction of the separated sanitary sewer pump station and force main discharging to the

combined sewer system in 23rd Street. Each Development Phase will connect to the existing system as close to the limit of the Development Phase as possible while maintain the integrity of the existing system for the remainder of the Project. Repairs and / or replacement of the existing facilities necessary to support the proposed Development Phase will be designed and constructed by the Developer. Interim sanitary sewer systems will be constructed and maintained by the Developer as necessary to maintain existing sanitary sewer facilities impacted by proposed Development Phases.

The SFPUC is responsible for maintenance of the existing combined sewer facilities surrounding the Project. The Developer will maintain acceptable access through all phases for the SFPUC to maintain SFPUC accepted infrastructure. The SFPUC will be responsible for the new separated sanitary sewer system and combined sewer system once construction of the Development Phase or new sanitary sewer system is complete and accepted by the SFPUC. The Developer will own and maintain interim facilities, as required, until completion of the Development Phase.

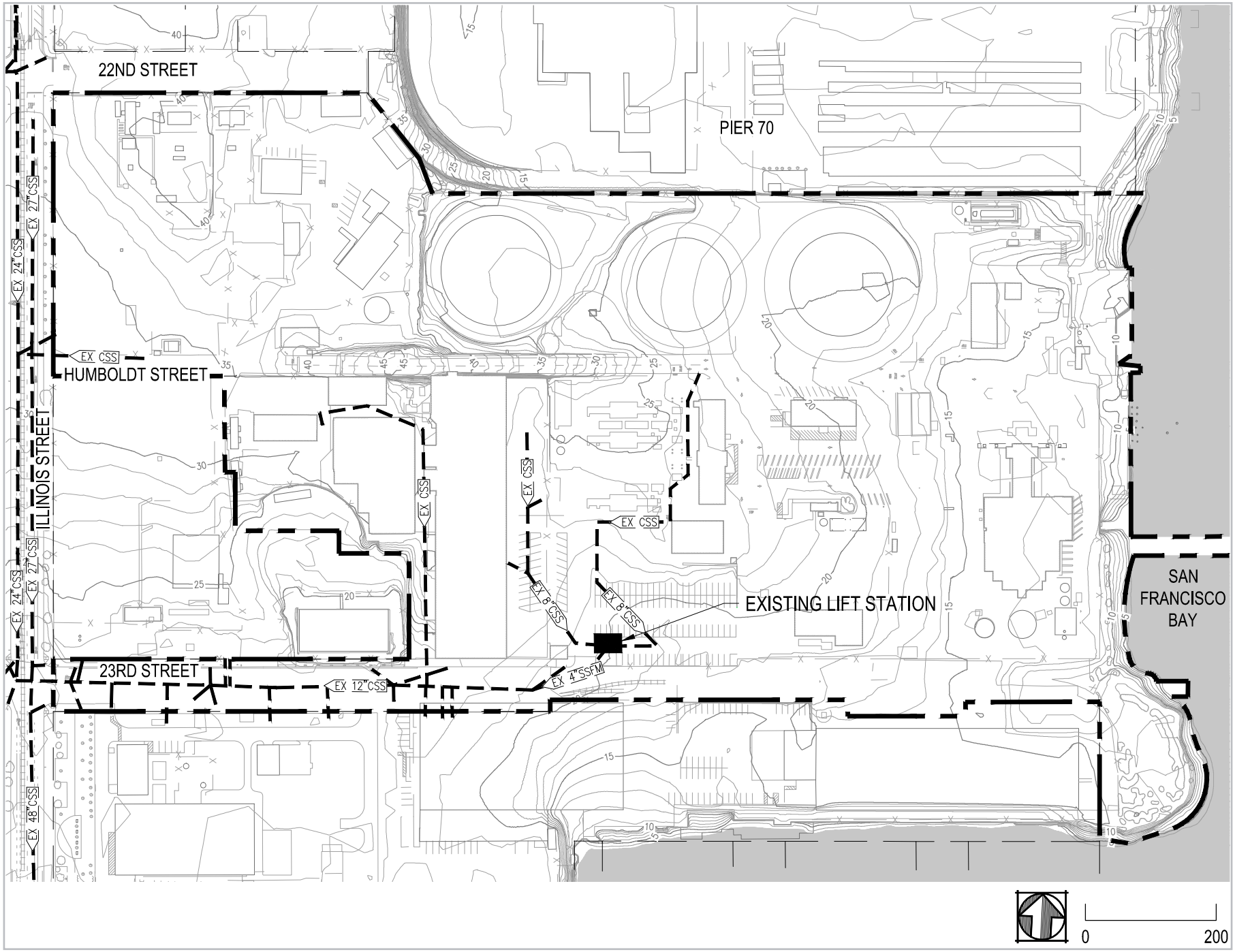


Figure 14.1 Existing Combined Sewer System

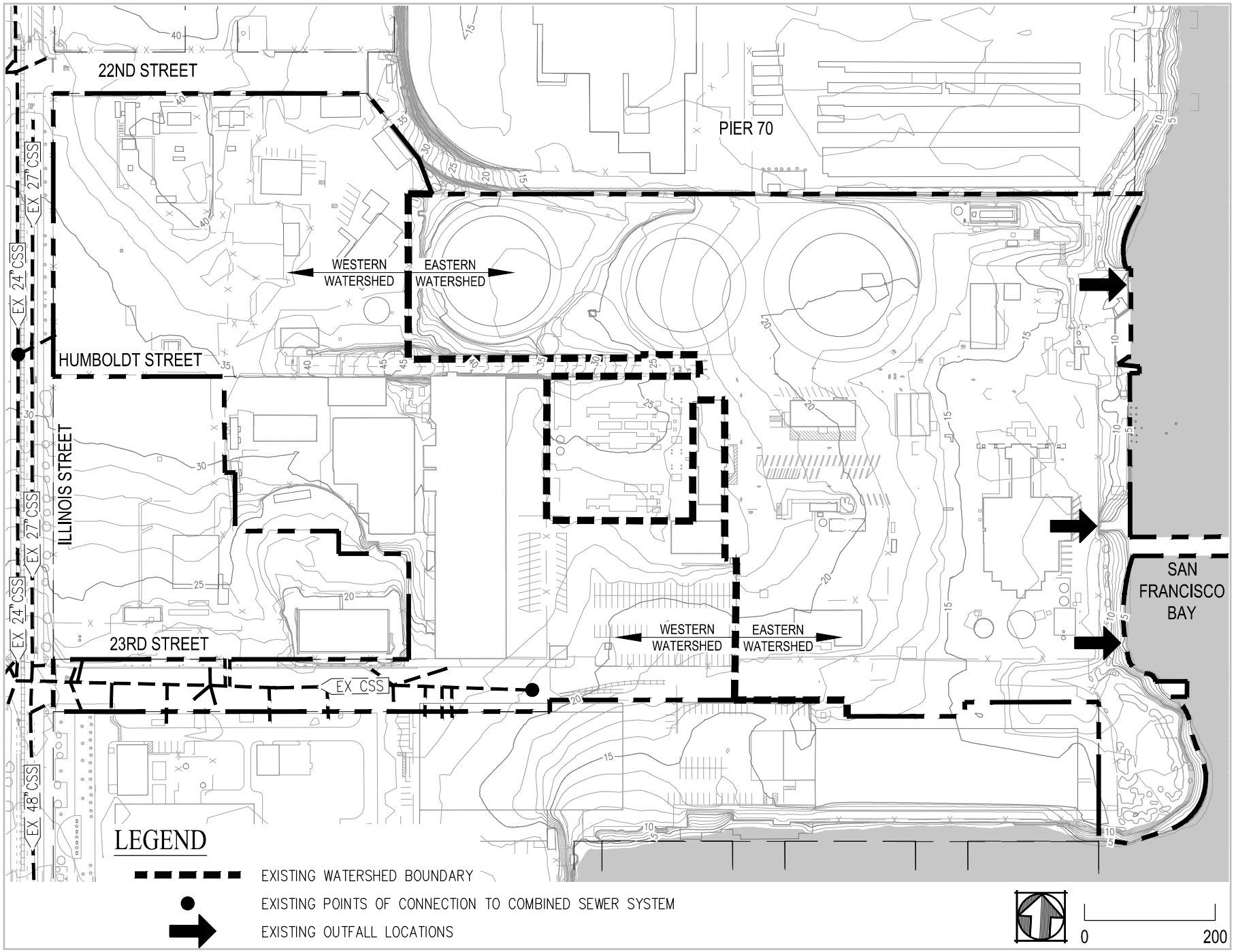


Figure 14.2 Existing Stormwater Watersheds Within Project

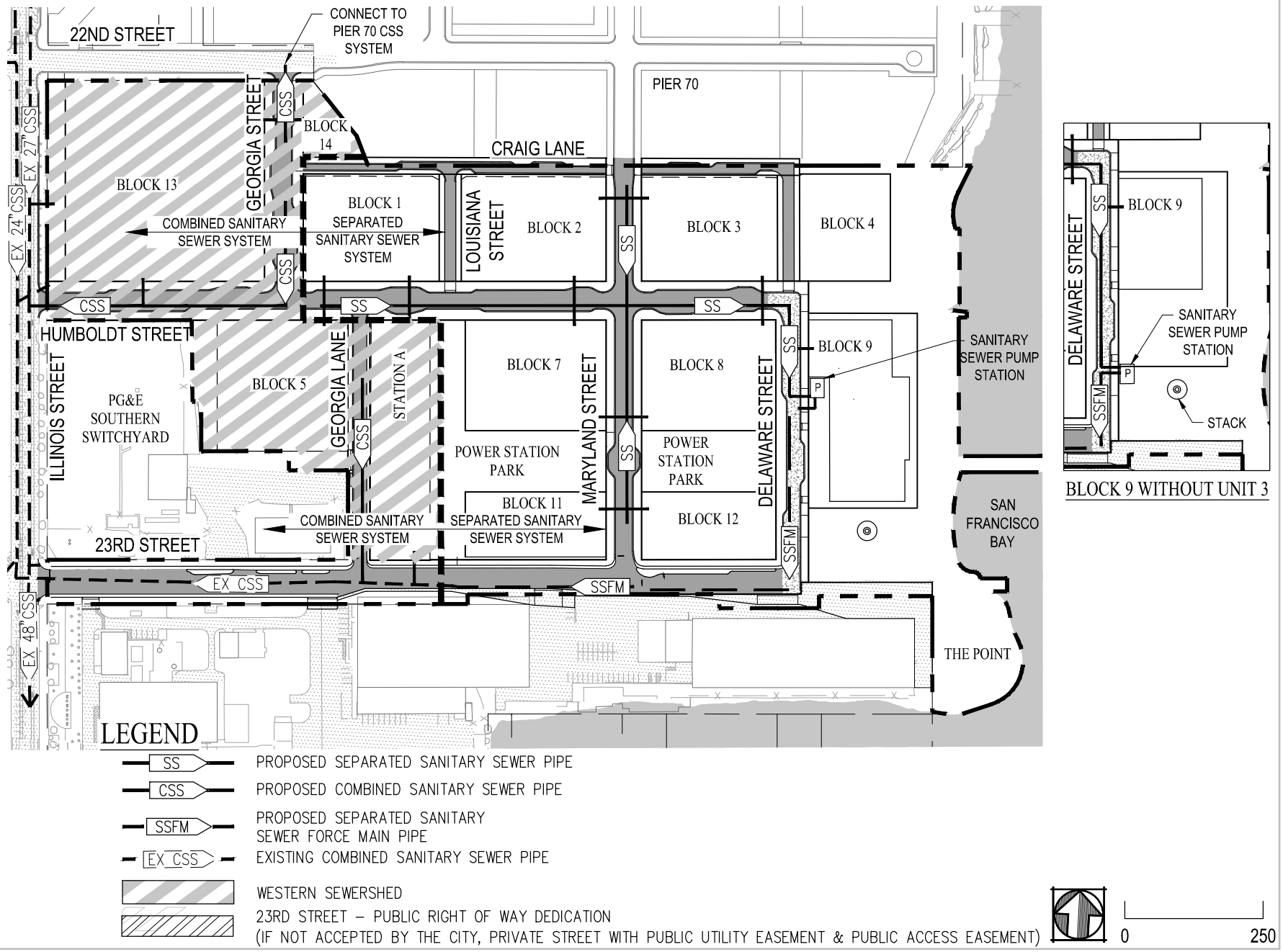


Figure 14.3 Proposed Combined and Separated Sanitary Sewer Systems

15 STORM DRAIN SYSTEM

15.1 Existing Storm Drain System

The Project site is comprised of two drainage watersheds. The western watershed is collected and conveyed by existing on-site inlets, pipelines and pump stations to the existing combined sewer system in Illinois Street and 23rd Street. The eastern watershed is collected and conveyed by a separated storm system that discharges to the Bay. The existing on-site separated storm system is comprised of inlets, pipelines, holding tanks and three existing outfall discharge points to the Bay located along the project waterfront. The existing watersheds are depicted on Figure 15.1.

The eastern portion of 23rd Street, east of Station A, overland flows to the east and releases by overtopping the shoreline at the eastern terminus of the street. Table 15.1 outlines the areas of the existing watersheds.

The existing storm drain infrastructure within the Project does not include any best management practices (BMP) to manage or treat stormwater runoff. The existing site conditions are effectively 100% impervious surfaces comprised of pavement and roof areas.

Table 15.1 Existing Watershed Areas – Combined Sewer Areas

Point of Connection	Drainage Areas (Acres)
Humboldt at Illinois Street	6.38
23rd at Illinois Street	7.55
Total Combined System	**12.93**

Table 15.2 Existing Watershed Areas – Separated Storm Drain Areas

Point of Connection	Drainage Areas (Acres)
Existing Bay Outfalls	14.93
Overland Flow	0.80
Total to San Francisco Bay	**15.73**

15.2 Proposed Storm Drain System

The proposed storm drain systems will generally maintain the existing drainage patterns within the project site, while reducing the area draining to the City's combined sewer system. Stormwater runoff will continue to be conveyed by both a separated storm system directly to the Bay and pipelines connecting to the City's combined sewer system. The topography and site grading will be configured to provide clear differentiation of the two watersheds within the Project, protecting from any potential overflow discharges from the combined sewer system to the Bay.

15.2.1 Proposed Separated Storm Drain System

The stormwater runoff within the eastern watershed is proposed to be collected and conveyed by a proposed separated storm system discharging to the Bay via a new outfall to be constructed by the Developer. The portions of 23rd Street that formerly drained by overland flow to the Bay will be collected and conveyed by the proposed separated storm drain system. A curb will be constructed along the south side of 23rd Street to collect stormwater from the street immediately north of the existing loading docks. The proposed separate storm drain systems will consist of entirely new infrastructure, consolidated into a single outfall to the Bay. The proposed system will be designed to convey stormwater flows from a 5-year / 3-year design storm. For maintenance and permit compliance purposes, an isolation gate with manhole will be installed directly upstream of the outfall to allow blocking of stormwater flows to the outfall or rerouting of nonconforming flows to the sanitary sewer system. A conceptual configuration of the proposal outfall is depicted on Figure 15.4. The proposed pipelines will range from 12 inches to 42 inches in diameter.

15.2.2 Proposed Combined Sewer System

The stormwater runoff within the western watershed is proposed to be collected and conveyed by a proposed combined sewer system to be constructed by the Developer and discharging to the existing combined sewer facilities in Illinois Street and 23rd Street.

The existing combined sewer pipeline in 23rd Street is scheduled to be replaced as part of the SFDPW Contract 2710J Various Locations No. 28 Pavement Renovation and Sewer Replacement Project. The PUC has confirmed the proposed pipeline replacement has adequate capacity for the Project's sanitary sewer and stormwater flows planned to connect to this facility.

There is a small portion of this western watershed at the north end of Georgia Street that will connect to the combined sewer system in 22nd Street proposed to be constructed by Pier 70.

The proposed combined sewer system pipelines will range from 12 inches to 18 inches in diameter.

The proposed storm drain systems will be designed to maintain the required clearances to adjacent utility systems and street improvements. The utility clearances for each street segment are depicted on Figure 10.2. The proposed watershed limits that comprise the Project are depicted on Figure 15.2. The proposed storm drain systems are depicted on Figure 15.3. Table 15.2 outlines the acreages of the proposed watersheds.

Table 15.3 Proposed Watershed Areas – Combined Sewer Areas

Point of Connection	Drainage Areas (Acres)
22nd Street	0.49
Humboldt at Illinois Street	4.33
23rd at Illinois Street	3.95
Total Combined Sewer Areas	**8.77**

Table 15.4 Proposed Watershed Areas – Separated Storm Drain Areas

Point of Connection	Drainage Area (Acres)
Proposed Bay Outfalls	20.25
Overland Flow	0.00
Total to San Francisco Bay	**20.25**

15.3 Design Standards

The proposed storm drain systems will be designed in accordance with the Subdivision Guidelines, including the following items:

- Baseline Hydraulic Design Storm – the baseline design storm for new pipelines systems is the 5-year, 3-hour rainfall event as per the Subdivision Regulations.
- Baseline Design Tail Water Elevations – the baseline tail water elevation for infrastructure draining to San Francisco Bay is 7.8 as per the Subdivision Regulations.
- Design Freeboard – the Subdivision Regulations require that the hydraulic grade line in pipe systems generally be four feet below the ground surface and no less than two feet.
- Overland Release Design Storm – the Subdivision Regulations require overland release provisions for extremely large storm events that exceed the capacity of the storm drain system. The design storm for this scenario is the 100-year, 3-hour event.
- Overland Release Tail Water Elevations – the baseline tail water elevation for the overland release analysis is the BFE plus 24-inches of sea level rise.

Additional modeling for the 100-year design storm will be completed with a tidal elevation equal to the BFE plus 24 inches of sea level rise, consistent with SFPUC standards and as requested per subdivision regulations.

15.4 The Stack and Unit 3

The Stack is proposed to be preserved and Unit 3 may be preserved; both structures may potentially be adaptively reused. The existing elevation of Unit 3 and Stack is approximately 14. The areas surrounding Unit 3 and Stack will need to conform to this lower elevation with either slopes or retaining walls. The private separated storm drain system of this localized low point will be designed to address sea level rise in excess of 24 inches, including a pump station and tidal backflow protection measures. The pump station will be designed to convey flows up to the 100-year storm event. This pump will be privately owned and maintained and is estimated to require a 1,000 gpm capacity with no storage. If storage is provided, the pump requirements could be reduced significantly.

15.5 Phases for Storm Drain System Construction

The Developer will design and install the new combined sewer system and separated storm drain system based on the Project Phasing Plan and as needed to facilitate each specific proposed Development Phase. The amount and location of the proposed storm drain facilities installed will be the minimum necessary to support the Development Phase. Phase 1 will include the design and construction of the separated storm drain outfall to the Bay. Each Development Phase will connect to the existing system as close to the limit of the Development Phase as possible while maintaining the integrity of the existing system for the remainder of the Project. Repairs and / or replacement of the existing facilities necessary to support the proposed Development Phase will be designed and constructed by the Developer. Interim storm drain systems will be constructed and maintained by the Developer as necessary to maintain existing storm drain facilities impacted by proposed Development Phases.

The City will be responsible for the new combined sewer system and separated storm drain system once construction of the Development Phase or new storm drain system is complete and accepted by the City. The Developer will own and maintain interim facilities, as required, until completion of final permanent facilities, as defined in this Infrastructure Plan.

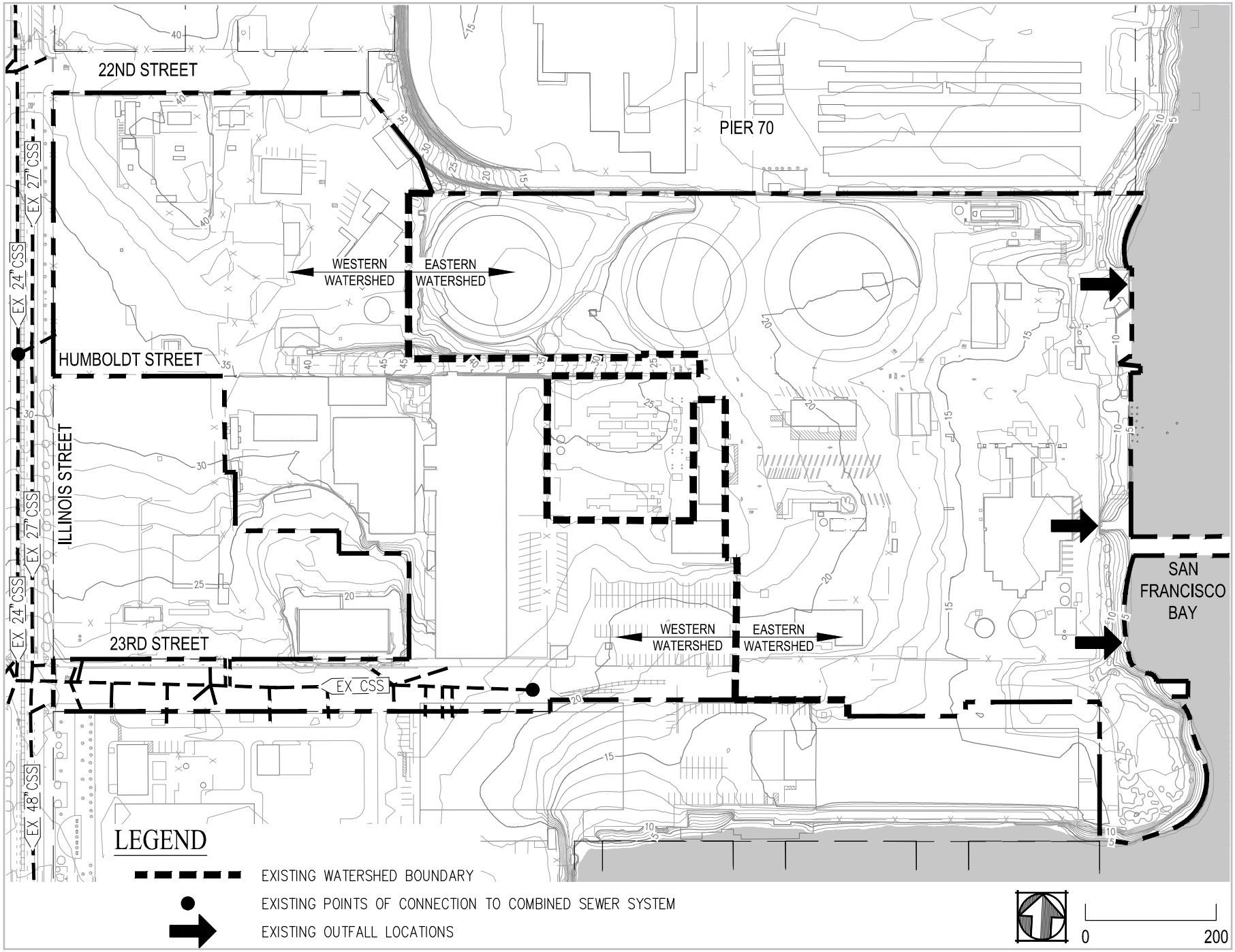


Figure 15.1 Existing Watersheds

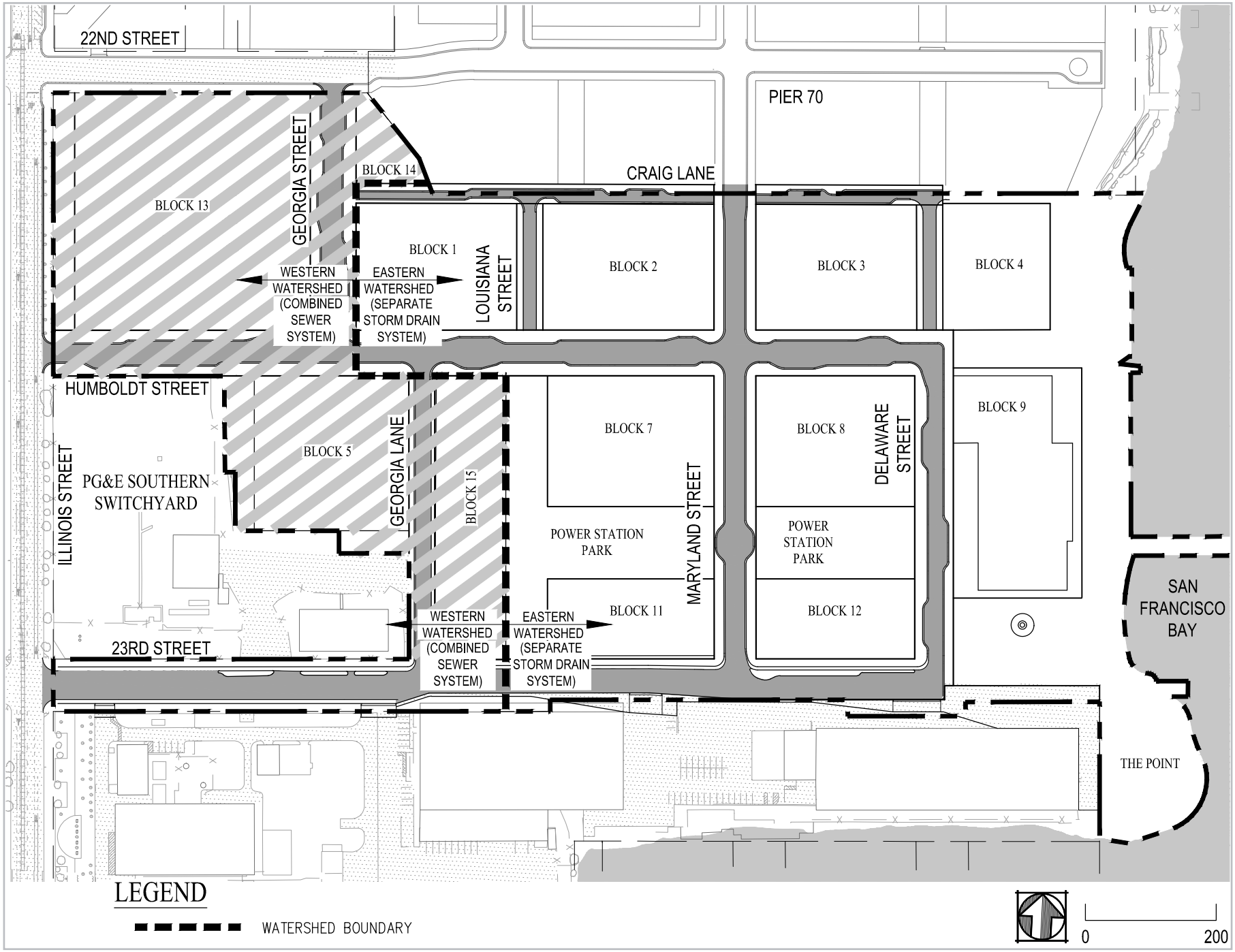


Figure 15.2 Proposed Watersheds

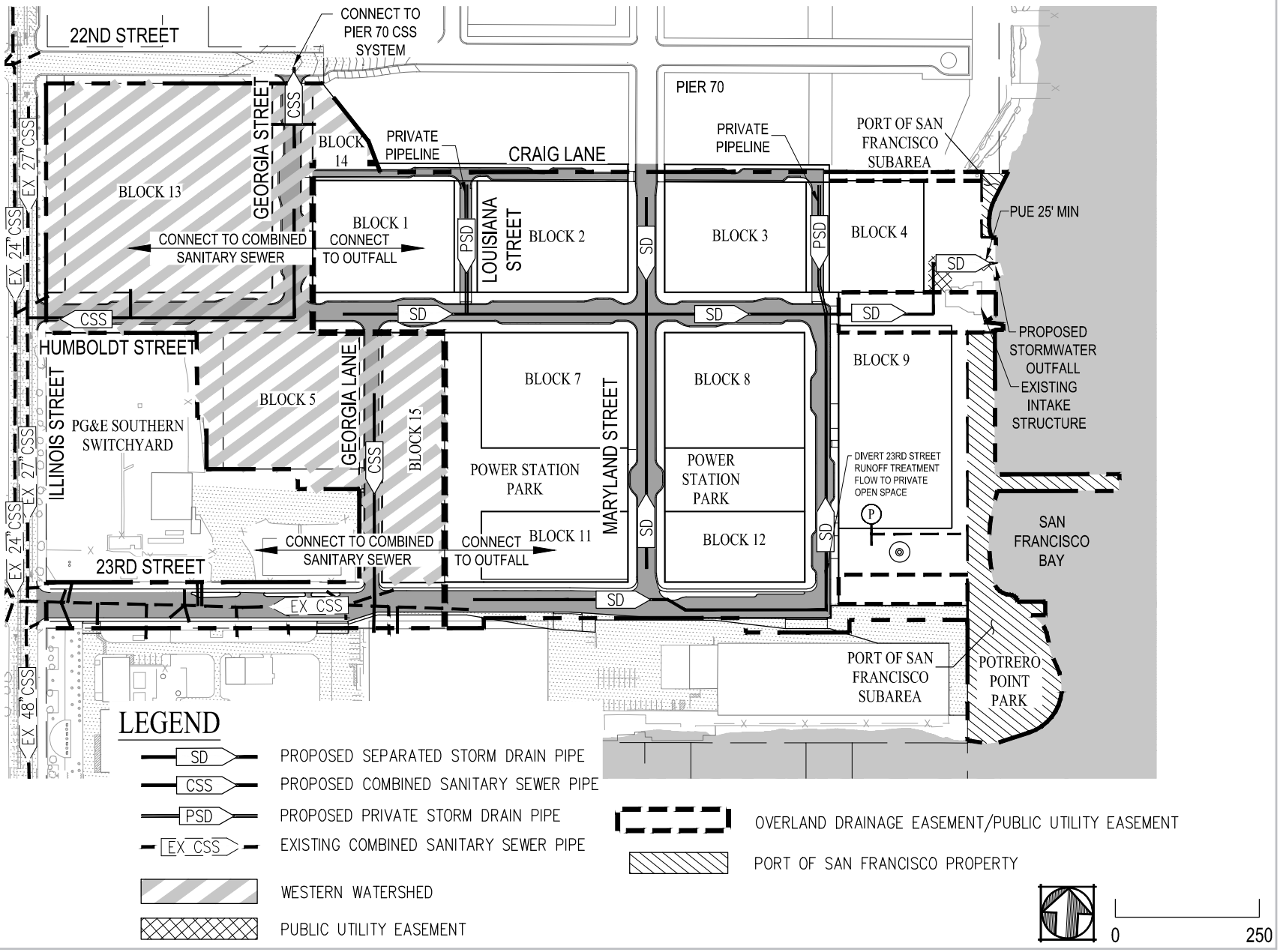


Figure 15.3 Proposed Storm Drain Systems

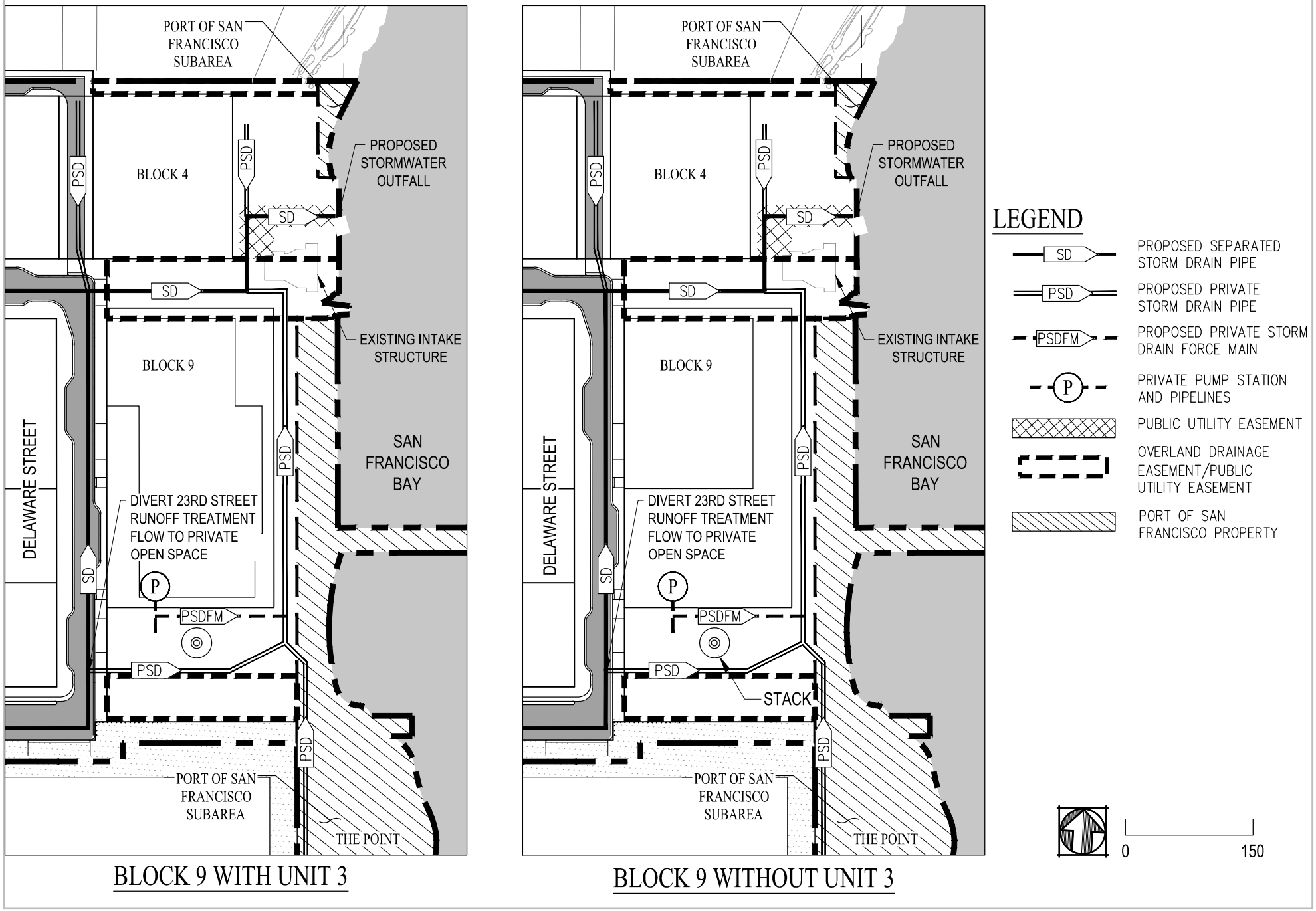


Figure 15.3 Proposed Storm Drain Systems

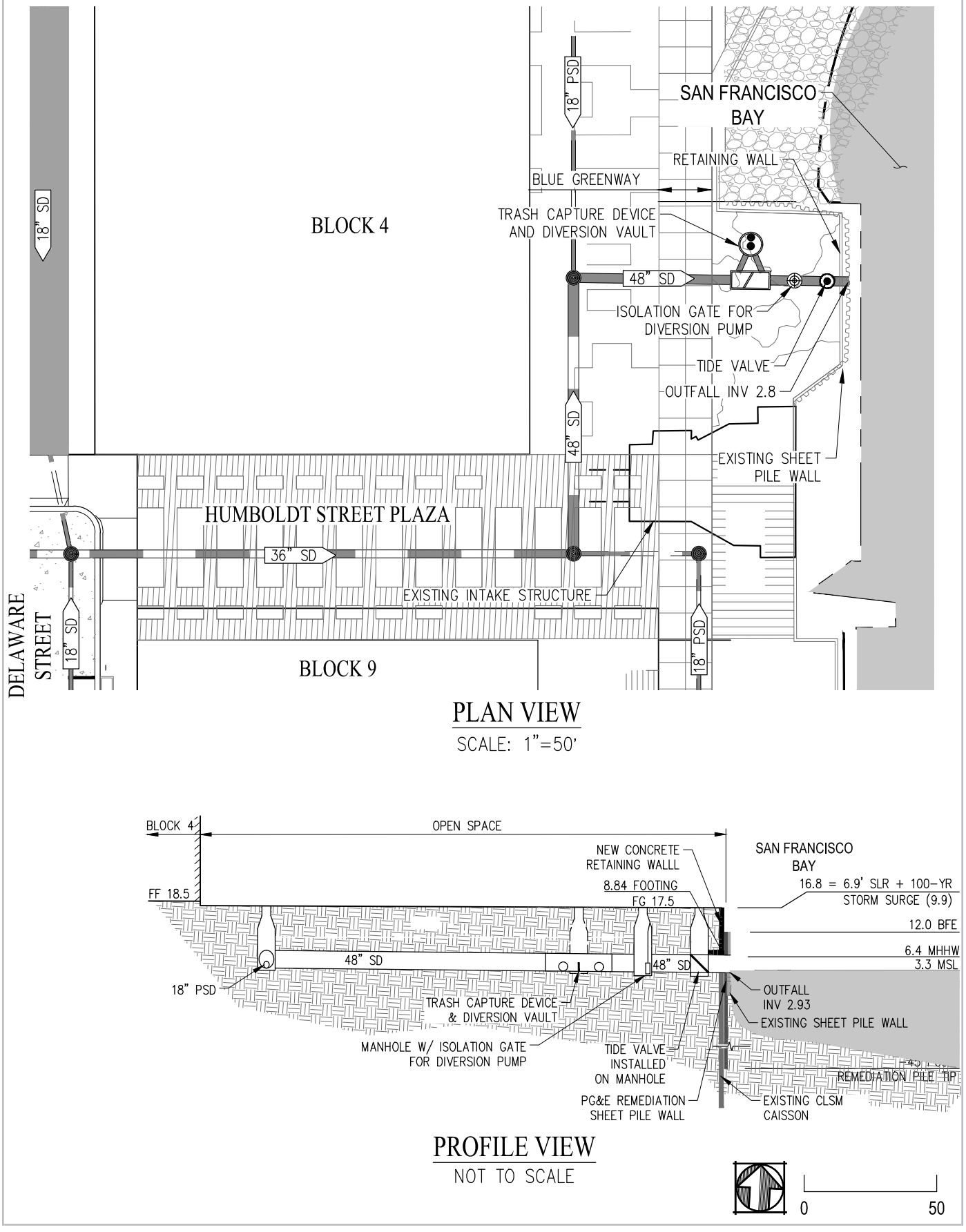


Figure 15.4 Conceptual Outfall

16 STORMWATER MANAGEMENT

16.1 Existing Stormwater Management Controls

The existing storm drain infrastructure within the Project does not include any best management practices (BMP) to manage or treat stormwater runoff. The existing site conditions are effectively 100% impervious surfaces comprised of pavement and roof areas.

16.2 Proposed Stormwater Management System

The required Stormwater Management for compliance with the City of San Francisco Storm Water Management Requirements ("SMR") will vary for the portions of the Project that are connected to the combined sewer system as compared to those connected to the separated storm drain system. Where Development Blocks or roadways / open space are connected to the combined sewer system, the Project will reduce the rate and volume of stormwater runoff based on the thresholds defined in the SMR. Modified compliance may be allowed for projects in the combined sewer system with proven site constraints upon SFPUC approval. Where the Development Block or roadway / open space connect to the separated storm drain system, the Project will treat the stormwater runoff per the SMR.

The Project will be designed to integrate Low Impact Development ("LID") elements with stormwater treatment BMPs to achieve compliance with the SMR. LID elements will include reducing stormwater runoff from impervious surfaces by integrating landscaping, permeable surfaces, rainwater harvesting and Living Roofs. Stormwater treatment BMPs include primarily plant based BMPs, such as bioretention areas, rain gardens, flow-through planters and Living Roofs. Infiltration BMPs may be also considered, but it is anticipated that the low infiltrating soils and documented underlying environmental contamination will challenge the feasibility of permeable pavements and other infiltration BMPs being used as a stormwater BMP. The stormwater treatment BMPs will treat, reuse or infiltrate stormwater runoff prior to discharging to the Bay or downstream combined sewer system. See Figure 16.2 depicting the conceptual locations and general ownership of the stormwater management system. The actual locations of the green infrastructure and stormwater management system will be approved through the Stormwater Management Master Plan, the Street Improvement Permit and Stormwater Control Plan review and approval process.

Stormwater treatment BMPs will be designed to accommodate sea level rise based on the Project BFE. BMPs will be designed using identical design criteria as the storm drain system conveyance analysis (i.e. 5-year LOS, BFE and SLR tail water) such that the hydraulic grade line (HGL) is at or below the BMP aggregate base section. If hydraulic modeling does not meet HGL requirements, the Project shall identify each BMP with the modeled duration of inundation for SFPUC review and approval.

Any standard or non-standard paving materials used to comply with the SMR, such as permeable paving (sidewalk, roadway or open space) shall be maintained by the Project Master Association. The City or acquiring agency will not maintain permeable paving used to achieve SMR compliance.

The following describes the performance requirements for the stormwater management system within each of the storm drain systems.

16.2.1 Stormwater Management in Separate Storm Drain System Areas

The Project exceeds the threshold of more than 50% impervious in the existing condition and considered a Large Project. The stormwater runoff from impervious surfaces will be directed to appropriate stormwater treatment BMPs prior to entering the public separated storm system, providing enhanced runoff quality prior to discharge to the Bay. The treatment BMPs will be designed to manage 90-percent of the 24-hour storm.

16.2.1.1 Development Blocks

Each Development Block will be responsible for achieving compliance with the SMR independently. The Development Parcels are generally directly adjacent to public and private streets with limited options to treat the stormwater runoff. The buildings and spaces within each Development Block will consider site design measures to reduce runoff, such as rainwater harvesting, Living Roofs and permeable surfaces. The anticipated locations of Living Roofs are depicted on Figure 16.2. Stormwater runoff from the impervious areas within the Development Blocks that are not treated by a site design measure will be treated by stormwater treatment BMPs. The treatment BMPs will be plant based, including bio-retention basins, rain gardens and flow-through planters. The private owner of each Development Block will be responsible for the design, construction and maintenance of the stormwater treatment system to achieve SMR compliance of that respective Development Block.

16.2.1.2 Roadways and Open Space

The roadways and open space areas will be designed with integrated plant based BMPs. These will include bioretention basins, rain gardens and flow-through planters. The treatment BMPs within the public streets will be designed consistent with the City's Green Infrastructure Typical Details. The runoff from the eastern portion of 23rd Street will be conveyed to treatment BMP's located in the Stack

Plaza. This is necessary to avoid conflicts between treatment BMP's and the underground high voltage lines in 23rd Street. The Developer is responsible for the design and construction of the stormwater BMPs within the Roadways and Open Space areas. The City is responsible for maintenance of the stormwater management facilities located in the public right-of-way that only treat public street and sidewalk runoff. The Developer is responsible for maintenance of stormwater treatment facilities that treat a blend of public right-of-way runoff and Development Block runoff.

16.2.2 Stormwater Management in Combined Sewer Areas

The Project is more than 50% impervious in the existing condition within the Combined Sewer Areas. The Project will reduce the runoff rate and volume of stormwater discharging into the combined sewer system relative to the 2-year, 24-hour design storm. The SMRs require that the runoff rate and volume of stormwater within the proposed Combined Sewer Area be reduced by 25%. The SMRs acknowledge that some projects have site conditions that challenge complying with this reduction. Accordingly, the SMR also allows for a Modified Compliance Program ("MCP") for these types of sites with limitations and constraints, such as low soil permeability, high groundwater tables, or limited rainwater harvesting opportunities. Under the MCP, individual projects can apply for a modified performance to reduce volume reduction targets (down to a minimum of 10% reduction in runoff volume) if a proportional additional reduction is made in peak stormwater flow rates (up to a maximum credited reduction of 40%).

16.2.2.1 Development Blocks

The Development Parcels are generally directly adjacent to public and private streets with limited options to reduce the volume of runoff. The Project will submit a modified compliance application for each individual parcel project for review and approval by the SFPUC. Additionally, the project may pursue an "equivalency credit" for stormwater volume reduction associated with the non-potable reuse proposed at the site, for the SFPUC review and approval. The allowance of a volume reduction "equivalency credit" is dependent on the configuration proposed non-potable reuse and stormwater management approach. Additional runoff volume and rate reductions at each development Block will be implemented as needed to achieve compliance with the SMRs. This will include the implementation of additional stormwater BMPs, such as Living Roofs, rainwater harvesting, permeable surfaces, flow-through planters, rain gardens or bioretention basins. The private owner of each development block will be responsible for the maintenance of stormwater management facilities within that Development Block.

16.2.2.1 Roadways

The roadways areas will be designed with integrated plant based BMPs. These will include bioretention basins, rain gardens and flow-through planters. The treatment BMPs within the public streets will be designed consistent with the City's Green Infrastructure Typical Details. The City will be responsible to maintain the stormwater management facilities located within the public right-of-way that treat only public street and sidewalk runoff.

The Development Parcels may increase stormwater management and rainwater harvesting performance to over-comply and apply to the Roadway areas, assuming modified compliance has not been allowed on the parcel project.

16.3 Exempt Areas

The portion of 23rd Street that is existing public right-of-way adjacent to the Project is exempt from and not subject to SMRs. See Figure 16.1 depicting the exempt areas.

16.4 Stormwater Control Plans

The Project will prepare stormwater control plans for SFPUC review and approval.

- Roadways / open space improvement projects will submit preliminary Stormwater Control Plans ("SCP") and final SCPs for approval by the SFPUC prior to SFDPW permit issuance, where Improvement Plans include stormwater BMPs.
- Development Block projects will submit preliminary SCPs for SFPUC approval prior to issuance of site permit. The final SCP will be submitted to SFPUC during the DBI addenda permit process and require SFPUC approval prior to issuance of certificate of final completion.

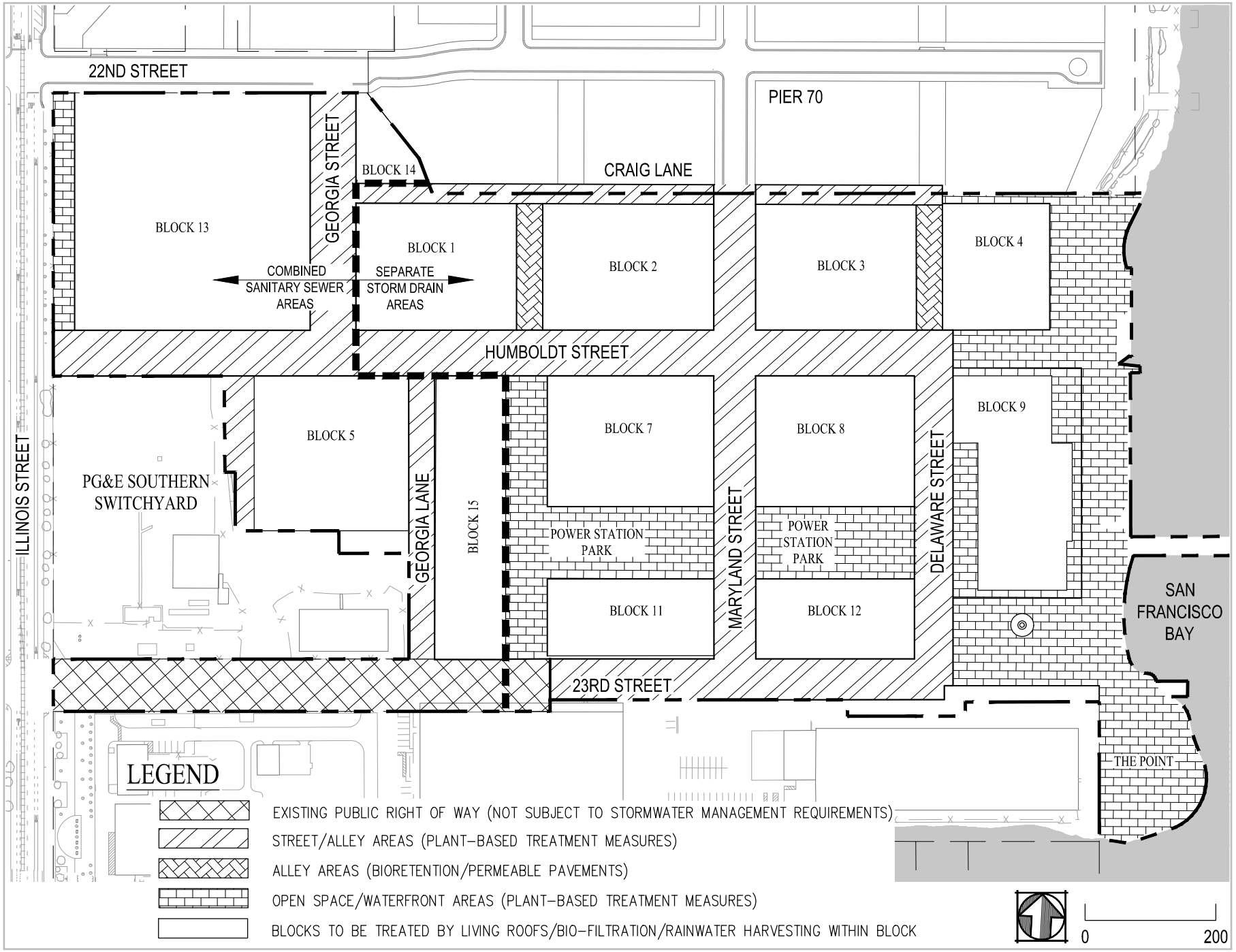


Figure 16.1 Conceptual Stormwater Treatment Controls

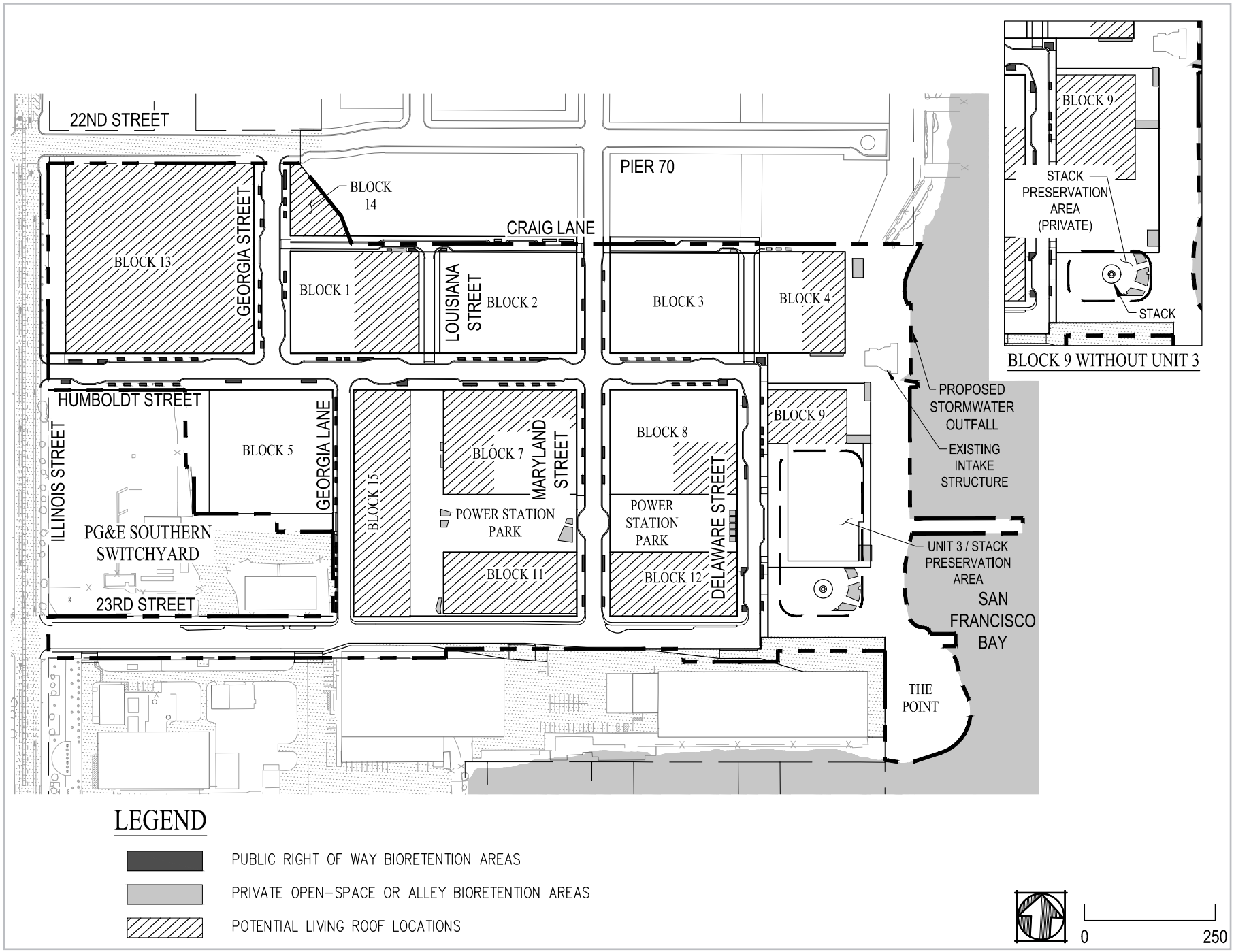


Figure 16.2 Conceptual Stormwater Control Plan

17 DRY UTILITY SYSTEMS

17.1 Existing Dry Utility Systems

17.1.1 Electric

Within the Project area there are existing overhead and underground Pacific Gas and Electric ("PG&E") 12kV distribution systems. The existing 12kV distribution systems are served from the PG&E Substation A. Substation A is located along Illinois Street between 22nd Street and 23rd Street, adjacent to the Project. With the proximity of Substation A to the Project, there are also existing underground electric transmission systems, both 115kV and 230kV, adjacent to and within the Project.

17.1.2 Natural Gas

The site is currently served from existing 2-inch plastic mains in Humboldt Street and 23rd Street. There is also a 24-inch PG&E transmission gas main adjacent to Illinois Street, and along the Block 13 Western Boundary. The existing 24-inch transmission gas main is depicted in Figure 4.2.

17.1.3 Communications

AT&T and Comcast own and operate existing communication facilities in Illinois Street. These facilities are within underground duct banks. There are also existing City of San Francisco Communication Department of Technology Information Services (DTIS) facilities consisting of overhead lines and cables in underground conduits located in Illinois Street adjacent to the Project.

17.2 Proposed Dry Utility Systems

The Developer's infrastructure obligations include the design and construction of the proposed dry utility systems within the Project. These systems will be located in a common, joint trench where feasible. The joint trench system will be public and will include facilities such as electric, natural gas, communications and street lighting facilities. The utility companies will maintain and operate their respective facilities in accordance with their franchise agreements with the City within the future public streets. The natural gas system may be located in a separate trench in order to comply with PG&E's separation requirements from a building. The proposed Joint Trench Layout is depicted on Figure 17.1.

17.2.1 Electric

The total cumulative peak power demand (design) associated with the Project is approximately 20 MVA. This has been estimated based on typical utility demands for the proposed types of land use and Project climate zone.

The proposed electric distribution system will be installed in the joint trench system. These facilities will be located within the proposed public and private streets providing service to the various uses throughout the Project.

Electric service to the Project could be provided by PG&E or San Francisco Public Utilities Commission Power Enterprise (SFPUC PE). The determination of which entity will supply electricity to the Project will be made through the approval of the Master Electric Utility Plan and other project agreements.

In the case PG&E is the electric provider, PG&E electric service would be delivered to the site at 12kV by connections to existing distribution feeders at the adjacent Substation A. Additional new feeders may be required based on existing service capabilities of the PG&E facilities.

In the case SFPUC PE is the electrical provider, SFPUC PE service may also be provided at 12kV, but would require wholesale interconnections to existing PG&E 12kV facilities or require the construction (at SFPUC PE expense) of a new single or multiple 115kV-12 / 34.5kV transformer bank substation.

Temporary electric service during construction may be provided by PG&E from existing local facilities, or SFPUC PE may provide temporary construction service for the project by developing a PG&E Wholesale Distribution Tariff (“WDT”) distribution interconnection at no cost to the project.

The Project location is in proximity to a number of existing electric transmission and distribution facilities. These facilities will be located, potholed and included in all Improvement Plans to assure proper coordination and proper clearances for construction phasing. The existing distribution facilities that bisect the Project and serve uses to the north will be relocated. The relocation of these facilities will be coordinated such that service disrupting will be minimized.

The Project will be responsible for trenching, installing conduit and substructures required to complete a fully operational electric distribution system. The distribution system elements such as switches, transformers and cables, will be provided by the electric provider. The costs associated with the installation of these elements will be pursuant to the applicable CPUC tariffs (for PG&E) or per the Rules and Regulations Governing SFPUC Electric Service, Distribution Line Extensions and Service Line Extensions (for SFPUC PE).

17.2.2 Natural Gas

The total cumulative peak gas demand (design) for the Project is approximately 340 Mcfh. This is based on typical utility demands for specific types of land use and Project climate zone.

The gas distribution system is planned to be an element of a joint trench system. On some streets, in order to provide ten feet of separation between proposed building structures and gas piping systems, gas mains may require to be separated from the joint trench into a gas only trench. The Developer will be responsible for construction of gas mains within the proposed roadway network.

17.2.3 Communications

The communications systems are planned to be an element of a joint trench or common trench system.

AT&T, Comcast and DTIS will provide new service for the proposed Project as participants in the joint trench system. Facilities will be placed in franchised areas. The Project will be responsible for trench cost to accommodate AT&T, Comcast and DTIS, as well as installing conduits and substructures for AT&T and DTIS. Some of the project AT&T costs may be reimbursable based on applied tariffs. Comcast will provide the placement of their facilities at their own expense.

17.2.4 Information and Communications Technology (ICT)

The Project may install a conduit and equipment related to ICT in the joint trench system to delivery ICT service to Development Parcels. This new private ICT distribution system within the public right-of-way would be subject to City approval and encroachment permit from SFDPW in accordance with the Development Agreement.

17.2.5 Renewables

The project will comply with the San Francisco Green Building Code Better Roof requirements, which will include photovoltaic generation on a portion of the roofs providing additional on-site renewable energy resources. The photovoltaic generation on-site will be subject to the power provider's requirements.

Solar photovoltaic arrays could be located on various project rooftops and interconnected with a proposed Project dry utility system to serve the distribution system capable of balancing captive supply and demand resources. The Project will reduce energy losses in transmission and distribution, increasing efficiency of the electric delivery system. The Project will be backed up by the Project Electric System and will not supply all project electrical demand.

17.2.6 All-Electric Building Heating and Cooling

The project may elect to eliminate the use of natural gas for space heating and domestic water use, which would reduce operational greenhouse ("GHG") emissions and limit on-site combustion. During the design of the mechanical system for each building, the feasibility of systems that provide for all-electric space heating and domestic hot water production shall be explored. However, future utility rates and the impact on affordability will be considered as part of the determination of feasibility made by the Project Sponsor for using all-electric systems for building heating and cooling.

17.3 Proposed Dry Utility System Phasing

The Project will design and install the new joint trench system as-needed to facilitate a specific proposed Development Phase, and consistent with the requirements of the Project Phasing Plan. The amount and location of the proposed joint trench installed will be the minimum necessary to support the Development Phase. The new Development Phase will connect to the existing systems as close to the edge of the Development Phase area as possible while maintaining the integrity of the existing system for the remainder of the Project. Repairs and/or replacement of the existing facilities necessary to support the proposed Development Phase will be designed and constructed by the Developer. Temporary joint trench or overhead facilities and poles may be constructed and maintained by the Developer as necessary to maintain service to existing buildings or adjacent properties as necessary.

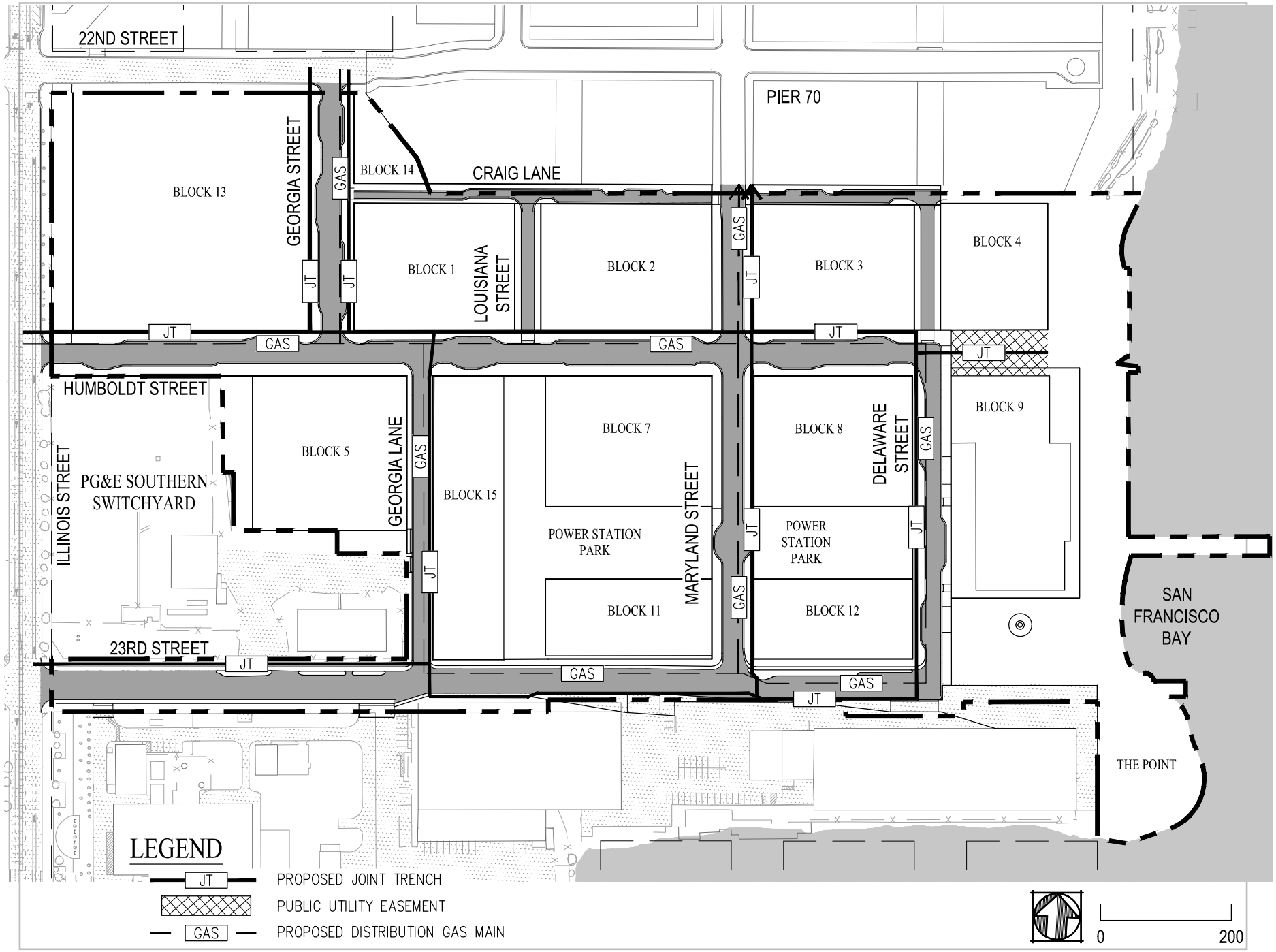


Figure 17.1 Proposed Joint Trench System

18 23RD STREET – PRIVATE STREET SCENARIO

The eastern segment of 23rd Street is currently privately owned. The street is intended to be constructed to public street standards and is proposed to be dedicated as a public street with Department of Public Works approval. Approval and acceptance of this segment of 23rd Street as a public street is subject to extinguishing an existing private PG&E high voltage line easement within this corridor. Accordingly, the potential for this segment of 23rd Street to remain a privately owned and maintained street has been considered. In this private street scenario, the public utility systems planned within this corridor, as described in the previous sections, will be reconfigured to minimize public utility installations within the private portion of 23rd Street. The following is a description of each utility system and the potential reconfigurations that will be considered in the 23rd Street private street scenario.

18.1 Auxiliary Water Supply System (AWSS)

The AWSS pipeline corridor through the project site will provide connections to the pipeline to be constructed by Pier 70 in Maryland Street to the north and to the existing pipeline at the 23rd Street / 3rd Street intersection. An alternative route of the AWSS pipeline through the project site utilizing Humboldt Street and Georgia Lane will eliminate placement of the AWSS pipeline within the 23rd Street private street segment. This alternative route is depicted on Figure 18.1.

The utility configurations and separations within these segments of Humboldt Street and Georgia Lane will be adjusted to accommodate the addition of the AWSS pipeline. This will require placement of pipelines within the curb bulb-outs planned at the pedestrian crossings of Humboldt Street, which are less than 100 feet long. The segments of utilities within these bulb-outs will be installed in a steel sleeve as required by the SFPUC and DPW. The modified utility sections for these segments of Humboldt Street and Georgia Lane are depicted in Figures 18.4.

18.2 Sanitary Sewer System

As described in Section 14, there are two alternatives configurations of the proposed separated sanitary sewer system:

(1) On-Site Pump Station with a force main connecting to the existing combined sewer pipeline within the existing public right of way segment of 23rd Street.

(2) Northern Connection Alternative with gravity flow connecting to the combined sewer system planned to be installed by Pier 70 to the north. This alternative

eliminates the on-site pump station and force main in 23rd Street. Refer to Figure 18.3.

For the first alternative in the 23rd Street private street scenario, an alternative route of the sanitary sewer force main through Humboldt Street and Georgia Lane will eliminate placement of the force main within the 23rd Street private street segment. The force main will connect to the new gravity combined sewer pipeline in Georgia Lane just south of Humboldt Street intersection. This alternative route of the sanitary sewer force main is depicted in Figure 18.2.

The utility configurations and separations within these segments of Humboldt Street and Georgia Lane will be adjusted to accommodate the addition of the sanitary sewer force main as previous discussed. The utility sections for these segments of Humboldt Street and Georgia Lane are depicted in Figures 18.4.

18.3 Low Pressure Water

There is an existing low-pressure water pipeline within the private segment of 23rd Street in order to provide service to the adjacent properties to the south. A publicly maintained low pressure water line will be necessary through the 23rd Street private street segment in order to maintain service to adjacent properties and provide redundancy to the systems within the Project.

18.4 Storm Drain System

The high point elevation of 23rd Street within the Project will be positioned at the public / private ownership line. Accordingly, the watershed division will be at this line as well and the private street segment will be entirely within the separated storm drain watershed. A storm drain pipeline will be installed within the private segment of 23rd Street to convey runoff to the public storm drain system planned within Delaware Street to the north, eventually discharging to the Bay via the proposed Project stormwater outfall. The storm drain pipeline within this segment of 23rd Street will be private in the private street scenario.

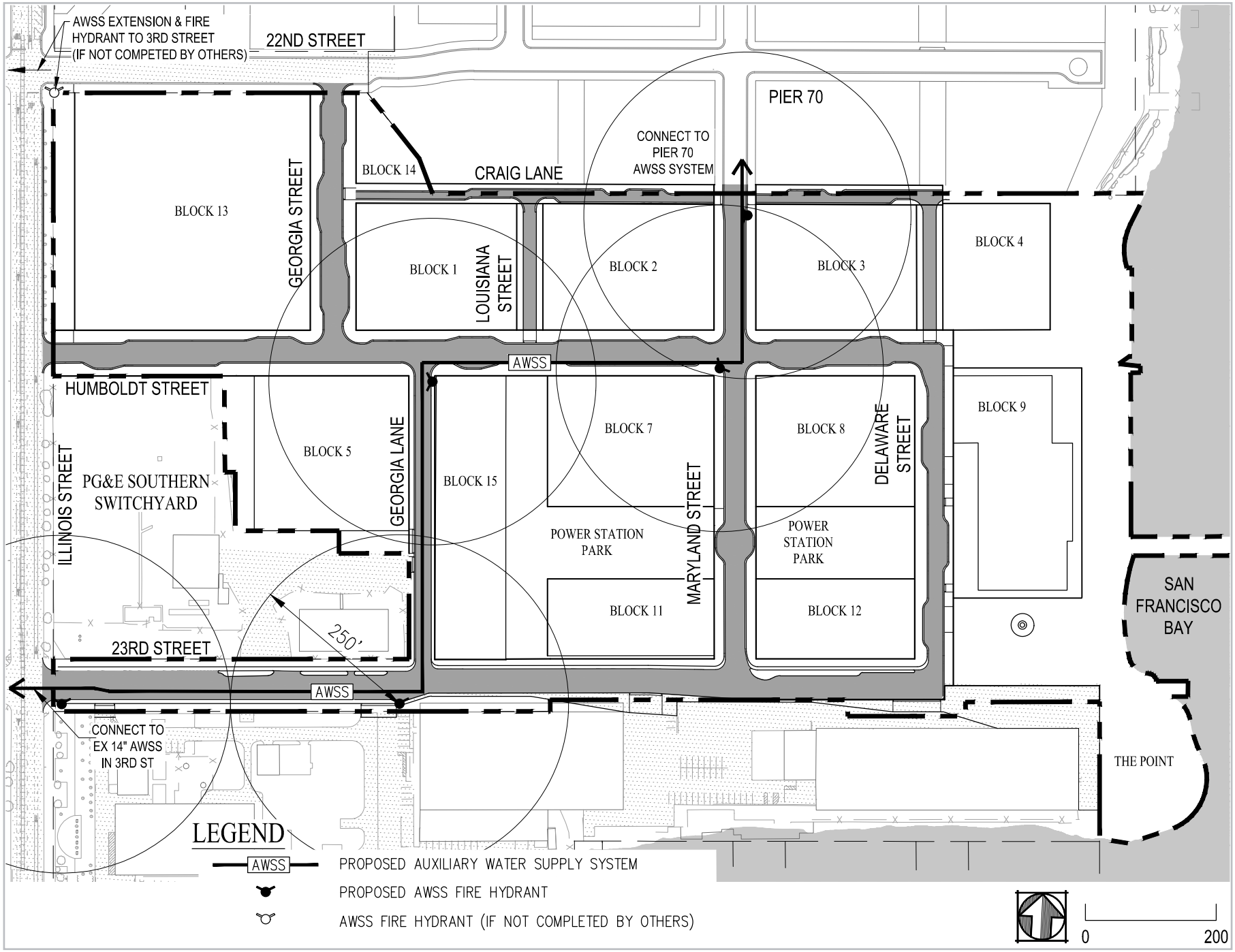


Figure 18.1 Proposed Alternative AWSS System

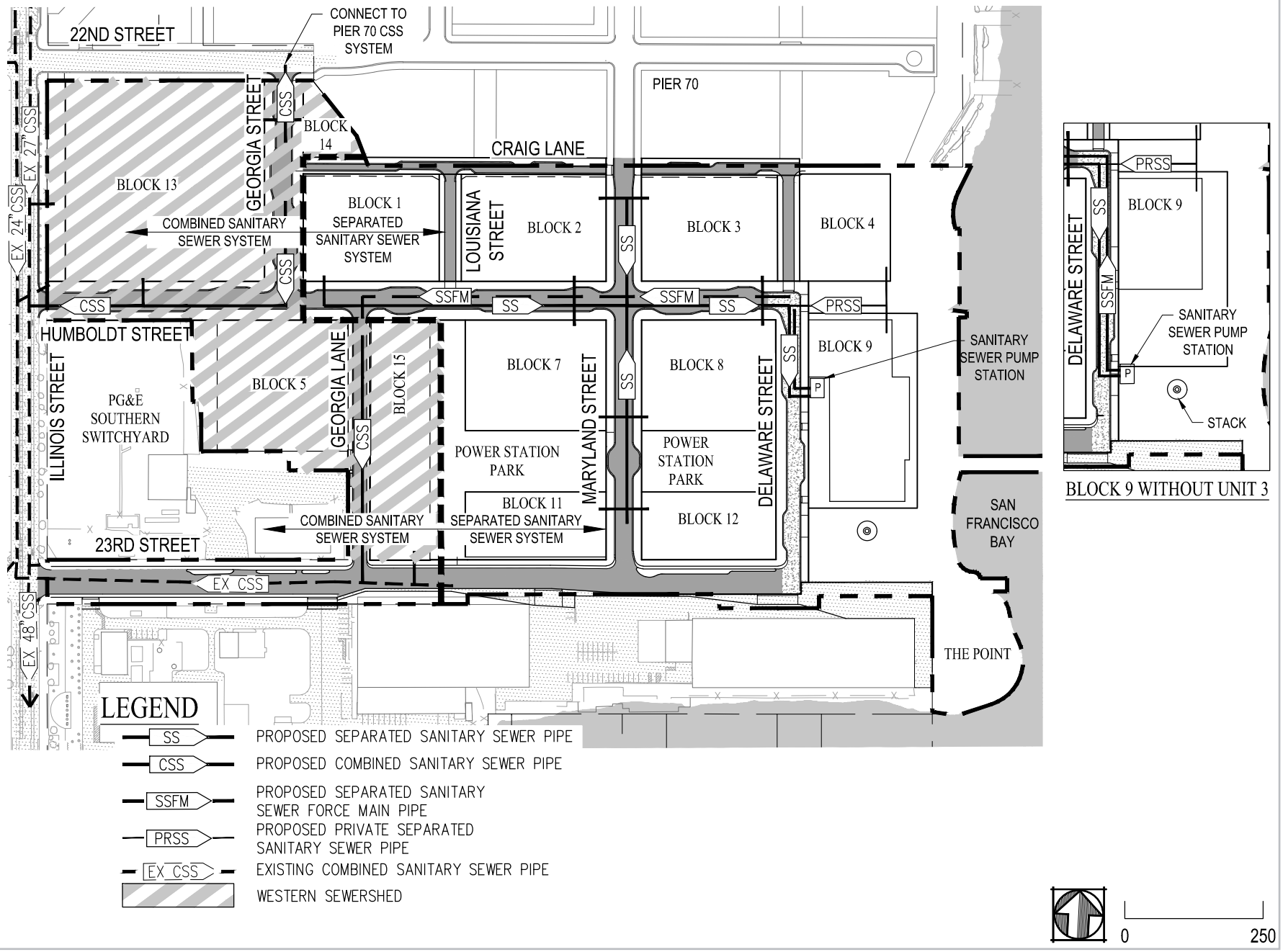


Figure 18.2 Proposed Alternative Combined and Separated Sanitary Sewer Systems

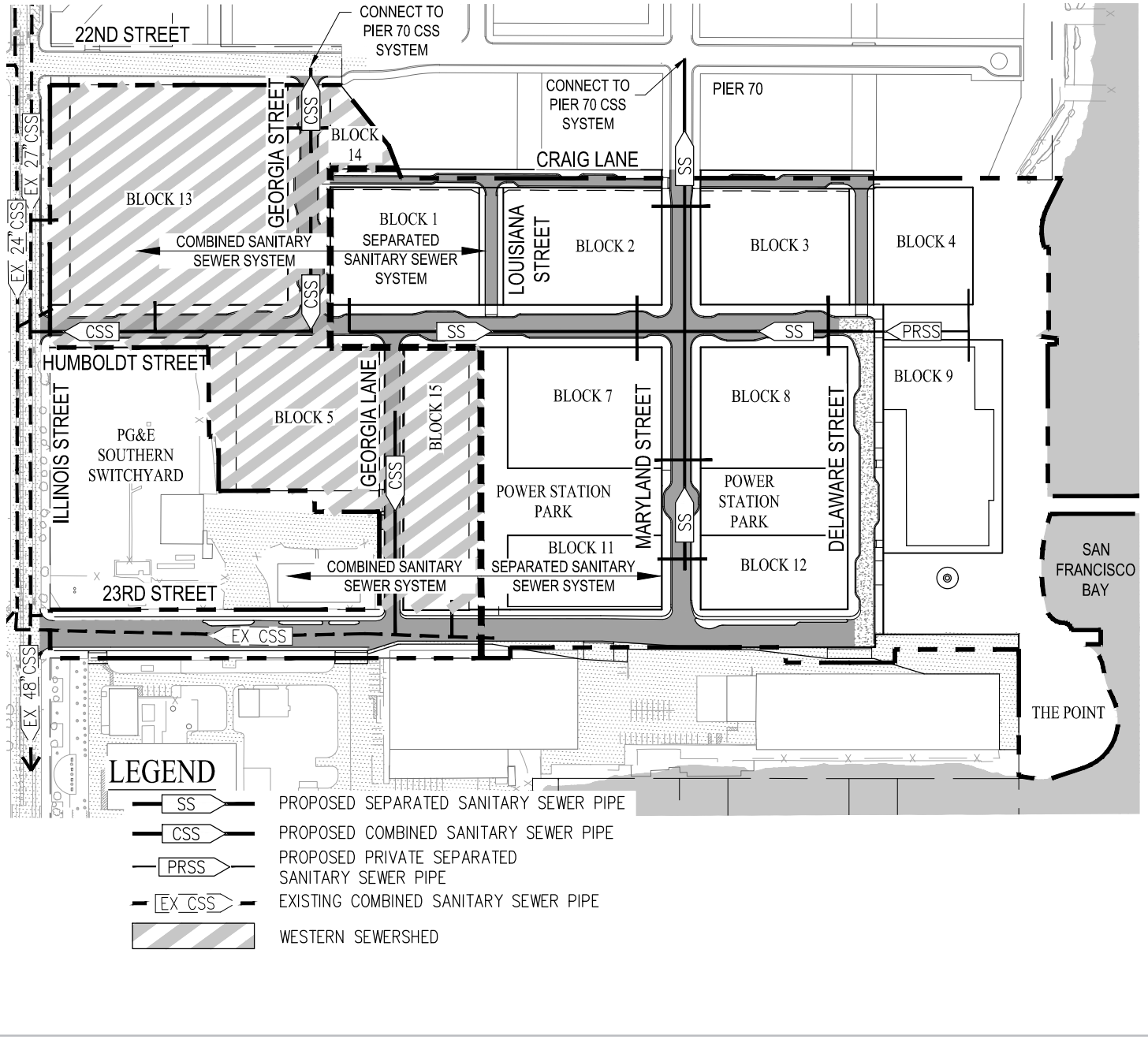


Figure 18.3 Proposed Separated Sanitary Sewer - Northern Connection Alternative

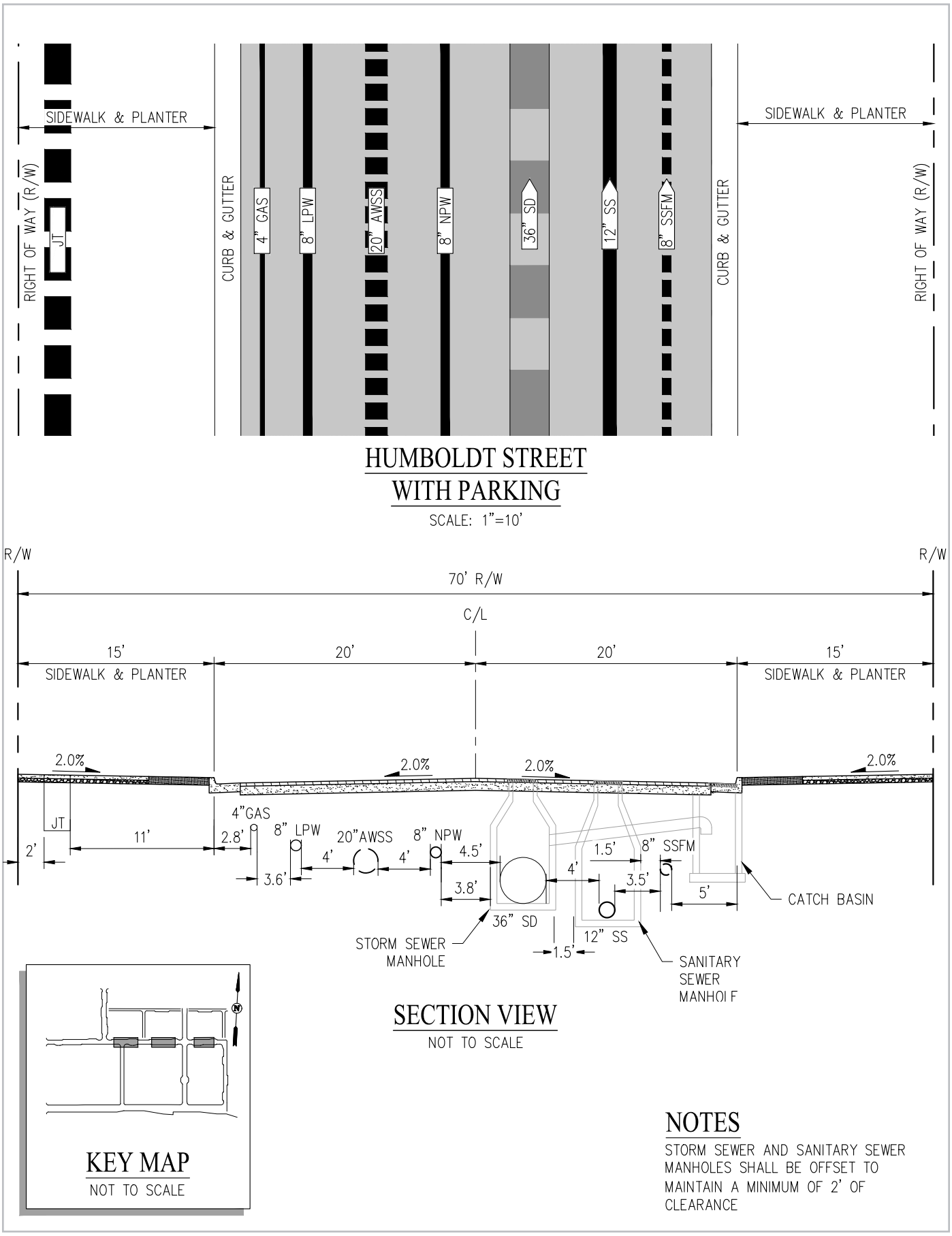


Figure 18.4 Alternative Utility Configurations

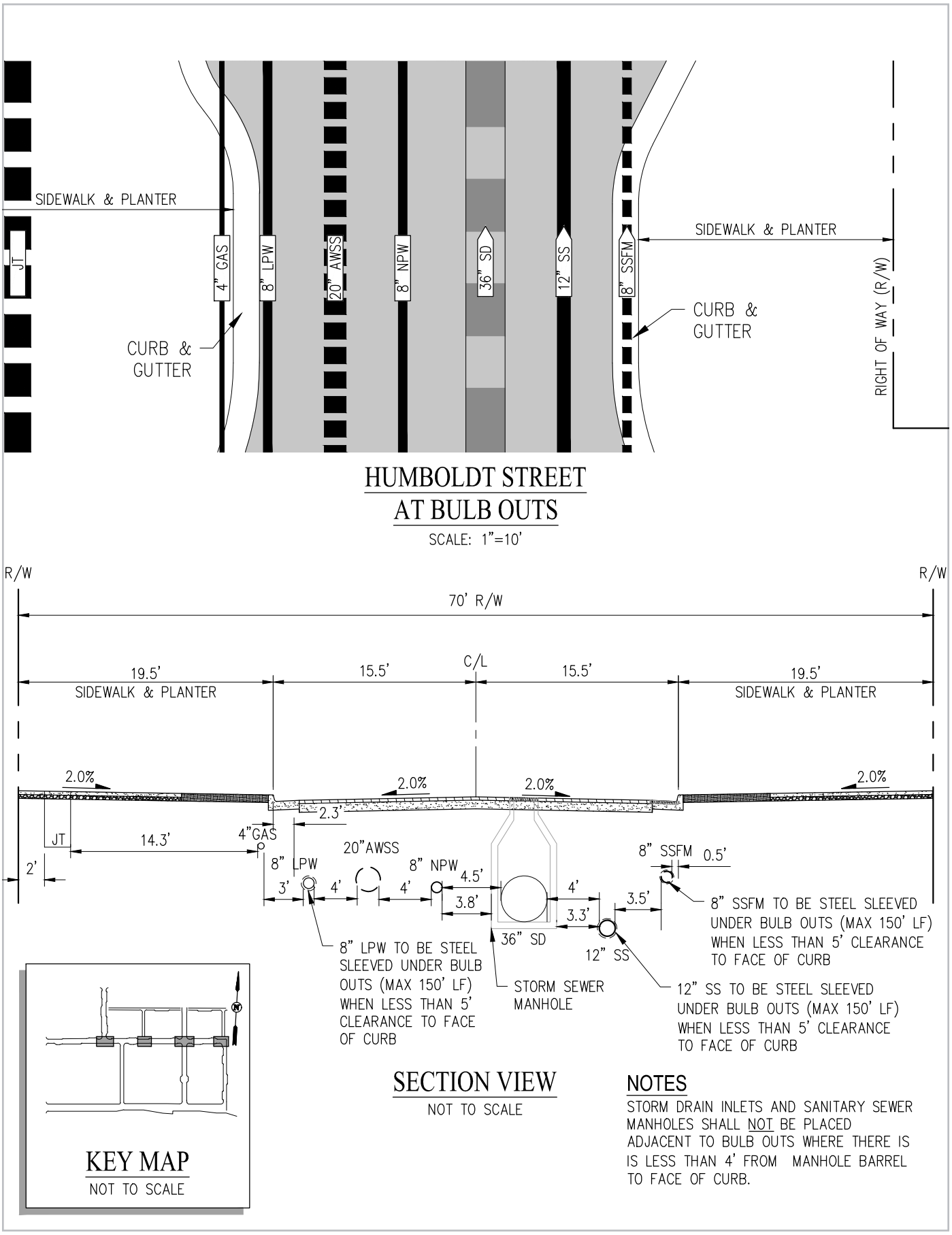
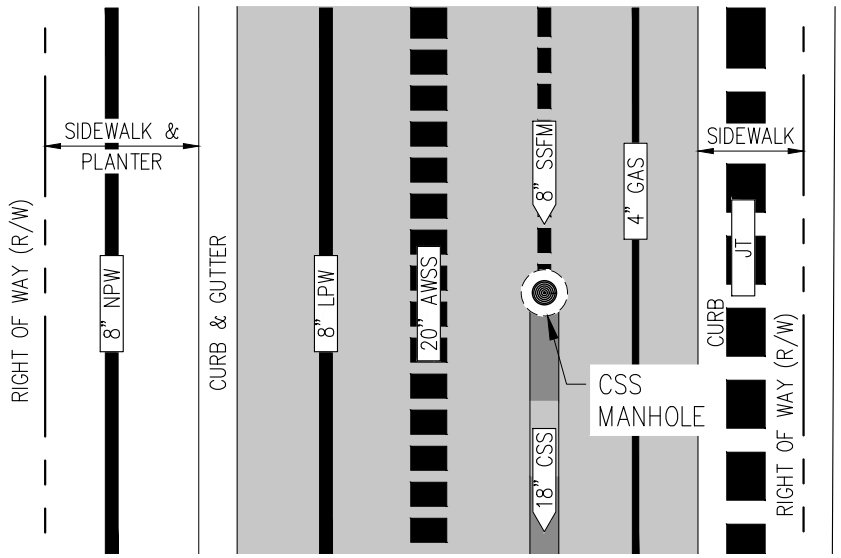
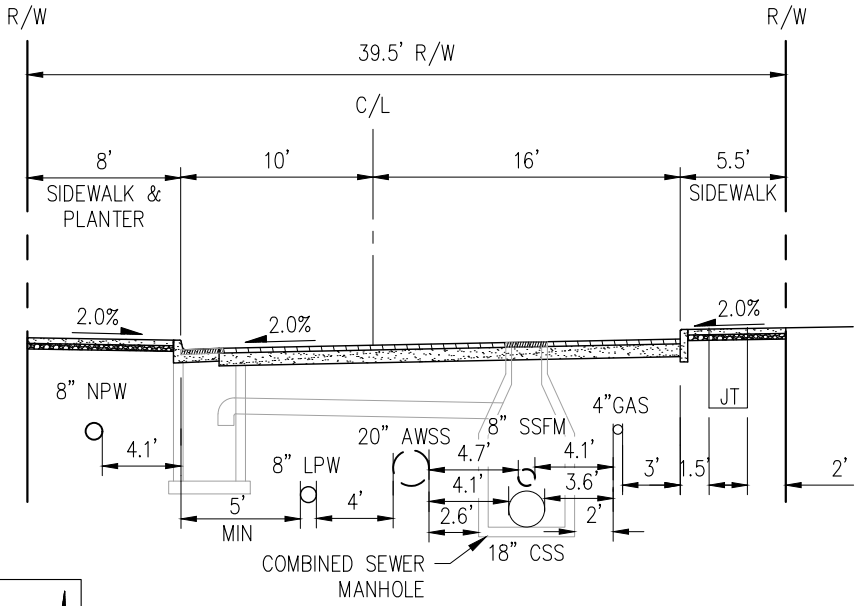


Figure 18.4 Alternative Utility Configurations



GEORGIA LANE

SCALE: 1"=10'



SECTION VIEW

NOT TO SCALE

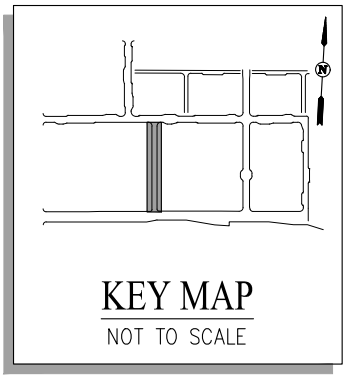
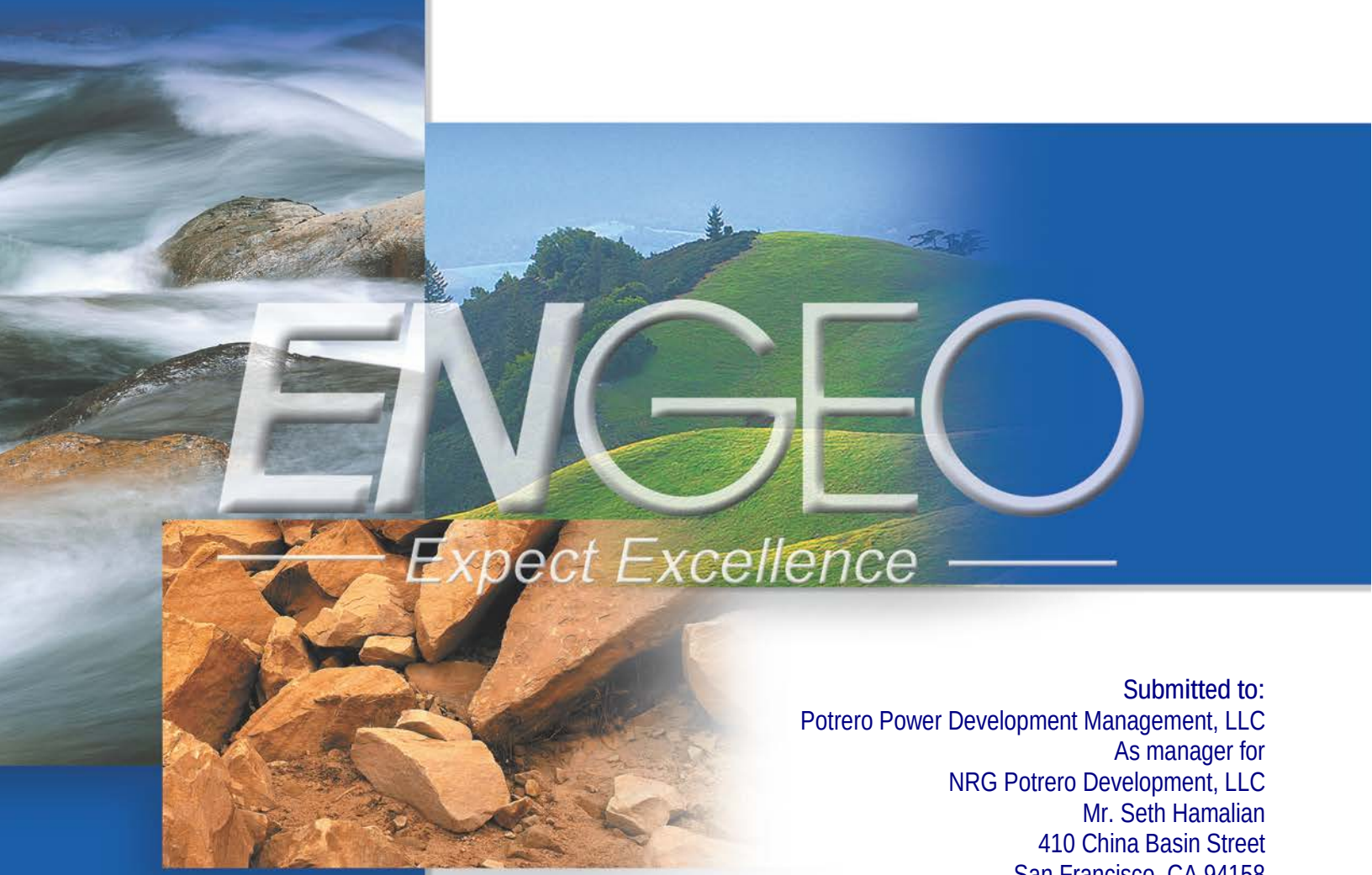


Figure 18.4 Alternative Utility Configurations

Appendix A
Preliminary Geotechnical Report

PRELIMINARY GEOTECHNICAL REPORT

POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA



Submitted to:
Potrero Power Development Management, LLC
As manager for
NRG Potrero Development, LLC
Mr. Seth Hamalian
410 China Basin Street
San Francisco, CA 94158

Prepared by:
ENGEO Incorporated

June 16, 2016

Project No:
12545.000.000

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Project No.
12545.000.000

June 16, 2016

Potrero Power Development Management, LLC
As manager for
NRG Potrero Development, LLC
Mr. Seth Hamalian
410 China Basin Street
San Francisco, CA 94158

Subject: Potrero Power Plant
1201 Illinois Street
San Francisco, California

PRELIMINARY GEOTECHNICAL REPORT

Dear Mr. Hamalian:

We prepared this preliminary geotechnical report for Potrero Power Development Management, LLC as outlined in our agreement dated June 16, 2016. We reviewed publicly available data, maps, and reports and performed subsurface explorations at the site to provide the enclosed preliminary findings and recommendations in support of the Environmental Impact Report (EIR) for the redevelopment of a portion of the decommissioned Potrero Power Plant site.

If you have any questions or comments regarding this report, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated

James S. Yang, PE
Jeff Fippin, GE
jsy/jf/cjn

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1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

We prepared this geotechnical report to provide preliminary geotechnical findings and recommendations for redevelopment within the decommissioned Potrero Power Plant site in San Francisco, California. We prepared this report as outlined in our agreement dated June 16, 2016. Potrero Power Development Management, LLC authorized ENGEO to conduct the following scope of services:

- Review of publicly available data, maps, and reports
- Subsurface field exploration
- Data analysis and conclusions
- Report preparation

For our use, we received a pre-design investigation report prepared by Haley & Aldrich, Inc., dated June 18, 2014. The report included subsurface data within the northeast portion of the project site.

We also reviewed the following reports as part of our literature review:

1. Geomatrix Consultants, Inc.
   a. Report of Results—Additional Site Characterization, dated April 17, 2000
   b. Source Investigation Report, dated March 17, 2004.
   c. Report of Results—Shoreline Investigation, dated March 31, 2008.
2. Geotechnical Consultants, Inc.
   a. Geotechnical Report, dated June 2004.
3. Haley & Aldrich, Inc.
   a. Investigation on PG&E ZA-1 Line Alignment, dated October 20, 2014.
4. URS/Dames & Moore
   a. Final Offshore Sediment Characterization Report, dated May 18, 2001.

This report was prepared for the exclusive use of our client and their consultants for preliminary analysis and design of this project. In the event that any changes are made in the character, design or layout of the development, we must be contacted to review the conclusions and recommendations contained in this report to evaluate whether modifications are recommended. This document may not be reproduced in whole or in part by any means whatsoever, nor may it be quoted or excerpted without our express written consent.

1.2 PROJECT LOCATION

Figure 1 displays a Site Vicinity Map and Figure 2 shows site boundaries and existing conditions at the time of this report. The project site is the former Potrero Power Plant, which is bounded by

Pacific Gas & Electric (PG&E) substations and yards to the west, 23rd Street to the south, Pier 70 to the north, and the San Francisco Bay to the east. The project site comprises approximately 21 acres. Access to the site is currently provided via Humboldt Street.

1.3 PROJECT DESCRIPTION

Based on our discussion with NRG Potrero Development, LLC, we understand that the proposed redevelopment will include construction of new residential, retail, industrial, office buildings, and potential retrofit of existing structures for similar purposes, and associated improvements. We also understand that 100 feet of open space is tentatively proposed as part of the development plan along the eastern portion of the site.

2.0 FINDINGS

2.1 SITE BACKGROUND

Approximately half of the Potrero Power Plant site comprises fill placed in the Bay beyond the original shoreline; the approximate location of the shoreline from an 1851 map is shown on Figure 2. The site has a significant thickness of existing fill that was placed at the site during the late 1800s and early 1900s, with the area east of the historic shoreline filled in the late 1800s and the area south of the historic shoreline filled in the early 1900s. Previous subsurface investigations indicate the fill consists of crushed Franciscan bedrock, building debris, industrial waste, and a mixture of various soil types. Fill thicknesses range from 10 to 25 feet at the southwestern portion of the site and 5 to 52 feet at the eastern portion of the site. Most of the fill appears to have been derived from cut into the western portions of the site where a previous hillside was lowered to construct the buildings and other improvements in the west of the site.

Historical site use for the site included:

- Manufactured gas plant (MGP) operations
- Sugar refining
- Barrel manufacturing
- Fuel oil storage
- Industrial wharf activities

MGP operations, by Pacific Gas & Electric (PG&E) and predecessor companies occupied the northern portion of the site between 1872 to 1930. Operations were subsequently halted and the MGP was dismantled between 1961 and 1962. The southwestern portion of the site was occupied by barrel manufacturing and storage operations between approximately 1887 and 1899 before being relocated to the northwestern portion of the site. PG&E subsequently occupied the southwestern portion of the site beginning in 1910 and constructed the now-decommissioned Station A electrical generation plant. Sugar refining operations occupied the southeastern portion of the site between the 1870s to the 1950s.

Offshore operations along the eastern boundary of the site included loading and unloading at now-removed industrial wharfs that are visible in historic aerials until at least 1968. Some of the foundations of the removed wharves are still visible offshore of the site.

While environmental evaluation of the site is not part of the scope of this preliminary geotechnical report, past environmental investigations have identified chemicals of potential environmental concern (COPECs) associated with fill placement and past industrial operations at the site. We understand that in-situ stabilization/solidification has been proposed along portions of the eastern shoreline as part of future remediation activities.

2.2 GEOLOGY AND SEISMICITY

2.2.1 Regional Geology

The site is located within the Coast Ranges physiographic province of California. The Coast Ranges physiographic province is typified by a system of northwest-trending, fault-bounded mountain ranges and intervening alluvial valleys. Bedrock in the Coast Ranges consists of igneous, metamorphic and sedimentary rocks that range in age from Jurassic to Pleistocene. The present physiography and geology of the Coast Ranges are the result of deformation and deposition along the tectonic boundary between the North American plate and the Pacific plate. Plate boundary fault movements are largely concentrated along the well-known fault zones, which in the area include the San Andreas, Hayward, and Calaveras faults, as well as other lesser-order faults.

2.2.2 Geology

More specifically, the site is located along the western margin of the San Francisco Bay. The San Francisco Bay occupies a fault bound, down dropped block located between the Hayward and San Andreas fault zones. The site geology can generally be divided into two distinctly different areas, which are roughly delineated by the historic 1851 shoreline. The two different areas are: 1) a shallow bedrock zone within the boundary of the historic shoreline and 2) a deep fill zone outside the boundaries of the historic shoreline at the southwestern and eastern portion of the site. The shallow bedrock portion of the site generally comprises relatively thin layers of artificial fill underlain by Jurassic age serpentinite bedrock of the Franciscan Formation. At the easternmost portions of the shallow bedrock portion, historic marshes have been mapped. The deep fill portion of the site generally comprises artificial fill underlain by Young Bay Mud, dune sands, and Franciscan bedrock. The primary rock type mapped in the project limits is serpentinite. Figure 3 shows the regional geology as mapped by Graymer (2000), while Figure 6 shows published bedrock contours across the site.

2.2.3 Seismicity

The project site is located within the seismically active San Francisco Bay Area, and is mapped within the San Francisco North Quadrangle of the State of California Seismic Hazard Zone Map,

as shown on Figure 4. Portions of the site are mapped as being potentially liquefiable, and the limits of this mapping roughly correspond with the infilled portions of the site.

The San Francisco Bay Area contains numerous active faults and experiences numerous small earthquakes every year. An active fault is defined by the State Mining and Geology Board as one that has had surface displacement within Holocene time (about the last 11,000 years) (Hart, 1997). Figure 5 shows the approximate location of these faults and significant historic earthquakes recorded within the San Francisco Bay Region.

According to a search using the USGS 2008 National Seismic Hazard Map tool, the nearest active fault is the San Andreas Fault, which is located approximately 7.6 miles to the west and considered capable of a maximum moment magnitude of 7.9. The following table lists the closest active faults to the site, their approximate distances, and estimated maximum moment magnitudes.

TABLE 2.2.3-1
Summarized Nearest Active Faults

Fault Name	Approximate Distance from Project Site (miles)	Maximum Moment Magnitude (Ellsworth)
Hayward-Rodgers Creek	10.4	7.3
San Gregorio Connected	11.8	7.5
Mount Diablo Thrust	20.5	6.7
Calaveras	20.8	7.0
Monte Vista-Shannon	23.2	6.5
Green Valley Connected	23.6	6.8
Point Reyes	27.9	6.9
West Napa	29.1	6.7

The site is not located within a currently designated Alquist-Priolo Earthquake Fault Zone and no known surface expression of active faults is believed to exist within the site. Fault rupture through the site, therefore, is not anticipated.

2.3 EXISTING SUBSURFACE INFORMATION

The previous reports referenced in Section 1.1 include previous explorations drilled at the site. Most of the explorations were performed for environmental site characterization and for monitoring well construction. This data does add to understanding of the subsurface stratigraphy at the site. The approximate locations of the historic explorations are shown on Figure 2.

2.4 FIELD EXPLORATION

Our field exploration included drilling four borings and advancing 11 Cone Penetration Tests (CPTs) at various locations on the site. We performed our borings on September 8 and 9, 2015 and our CPTS on October 2, 2015.

Samples collected during the field exploration were too disturbed for testing so no laboratory testing was performed on samples collected from our four borings. The geotechnical analysis and recommendations contained within this preliminary report are therefore based on soil parameters collected during previous geotechnical lab testing and generally accepted ranges for the soil types based on our extensive regional experience.

The locations and elevations of our explorations are approximate, the locations were estimated by measuring from existing improvements at the site and using recreational grade GPS while the elevations are estimated by regional topographic mapping; they should be considered accurate only to the degree implied by the method used.

2.4.1 Borings

We observed drilling four borings at the locations shown on the Site Plan, Figure 2. An ENGEO representative observed the drilling and logged the subsurface conditions at each location. We retained a truck-mounted Mobile B53 drill rig and crew to advance the borings using 4-inch-diameter mud rotary wash methods. The borings were advanced to depths ranging from 10 to 50½ feet below existing grade. We permitted and backfilled the borings in accordance with the requirements of San Francisco Department of Public Health.

The blow counts were obtained by dropping a 140-pound hammer through a 30-inch free fall. The 2-inch O.D. split-spoon sampler was driven 18 inches and the number of blows was recorded for each 6 inches of penetration. In addition, 2.5-inch I.D. samples were obtained using a Modified California Sampler driven into the soil with the 140-pound hammer previously described. Relatively undisturbed samples were recovered using a 3-inch O.D. thin-walled Shelby tube. Unless otherwise indicated, the blows per foot recorded on the boring log represent the accumulated number of blows to drive the last 1 foot of penetration; the blow counts have not been converted using any correction factors. When sampler driving was difficult, penetration was recorded only as inches penetrated for 50 hammer blows.

We used the field logs to develop the report logs in Appendix A. The logs depict subsurface conditions at the exploration locations for the date of exploration; however, subsurface conditions may vary with time.

2.4.2 Cone Penetration Tests

We retained a CPT contractor to push the cone penetrometer to a maximum depth of about 50 feet in general accordance with ASTM D-5778. However, a majority of the CPTs experienced relatively shallow refusal (within 5 feet of the ground surface) either due to high tip resistances

or shaft inclinations. Based on the site history, refusal was likely due to encountering debris within the fill material. Measurements collected during testing include the tip resistance to penetration of the cone (Qc), the resistance of the surface sleeve (Fs), and pore pressure (U). CPT logs are presented in Appendix B.

2.5 SURFACE CONDITIONS

The majority of the site is covered by asphalt, concrete, and various buildings. Site topography generally slopes downward from west to east, with site elevations ranging between 23 and 13 feet (NAVD88).

We observed the following site features during our reconnaissance:

- Three above-ground storage tanks (ASTs) occupy the northern portion of the site. The ASTs are generally surrounded by gravel cover.

- Various warehouse, maintenance, and office buildings currently occupy the site. At the southeastern portion of the site, the existing office building is adjacent to an inactive power generation facility. There as an approximately 300-foot-tall smokestack to the south of the previous power generation facility.

- Power generation unit buildings in various states of demolition (Units 4, 5, 6, and Station A) occupy the southwestern portion of the site.

- The eastern shoreline comprises sloping debris and retaining structures. Sheet pile retaining walls are present along a portion of the northeastern shoreline.

Please refer to the Site Plan, Figure 2, for more information on site features.

2.6 SUBSURFACE CONDITIONS

West of the historic shoreline, we generally encountered a pavement section underlain by serpentinite bedrock. At SFA-1, we encountered gravelly sand fill with brick fragments to a depth of approximately 11 feet. At 11 feet, we encountered an approximately 4½-inch-thick concrete slab, which was underlain by serpentinite bedrock; it appears this is the location of a former basement and slab that was buried in place. At 1-CPT11, we encountered sandy soil in the upper 5 feet, underlain by relatively stiff clayey soil.

East of the historic shoreline, we generally encountered a pavement section underlain by fill consisting of serpentinite fragments and sandy to gravelly clay to depths of 13 to 42 feet below ground surface, with fill thicknesses increasing to the east. Underlying the fill was Young Bay Mud to approximate depths of 30 to 77 feet, with Young Bay Mud thicknesses increasing to the east.

At 1-CPT10, the Young Bay Mud was underlain by sand and silty sand to an approximate depth of 46 feet before subsequently encountering refusal conditions at approximately 50 feet below ground surface. At 1-B2, the soil became stiffer at approximately 30 feet before we encountered the serpentinite bedrock interface at approximately 38 feet below ground surface; this indicates the presence of either alluvium or Old Bay Mud below the Young Bay Mud. 1-CPT13 encountered refusal conditions at approximately 86 feet below ground surface.

We did not perform explorations within the deep fill zone at the southwestern corner of the site during this phase of our work.

Consult the Site Plan and exploration logs for specific subsurface conditions at each location. We include our exploration logs in Appendix A. The logs contain the soil type, color, consistency, and visual classification in general accordance with the Unified Soil Classification System. The logs graphically depict the subsurface conditions encountered at the time of the exploration. CPT logs are included in Appendix B.

2.7 GROUNDWATER CONDITIONS

As part of our field exploration activities, we performed pore pressure dissipation tests (PPDTs) at 1-CPT10 and 1-CPT13. Based on the results of the PPDTs, we anticipate groundwater to be approximately 5 to 7 feet below ground surface at the eastern portion of the site. We did not encounter groundwater at the explorations within the shallow bedrock portion of the site.

Based on our review of previous groundwater measurements by other consultants, groundwater conditions vary across the site. Groundwater measurements southwest of the historic bedrock ridge have ranged between 7 to 9 feet below ground surface, with shallower groundwater measurements at the southwestern corner of the site. Groundwater measurements east of the historic bedrock ridge have ranged between approximately 5 to 13 feet below existing ground surface with shallower groundwater measurements along the current shoreline.

Fluctuations in the level of groundwater may occur due to variations in rainfall, irrigation practice, and other factors not evident at the time measurements were made. The proximity of the site to the San Francisco Bay means it is likely the groundwater level is influenced by tide elevation.

2.8 LIQUEFACTION ANALYSES

Soil liquefaction results from loss of strength during cyclic loading, such as imposed by earthquakes. Soils most susceptible to liquefaction are clean, loose, saturated, uniformly graded fine sands below the groundwater table. Empirical evidence indicates that loose silty sands are also potentially liquefiable. When seismic ground shaking occurs, the soil is subjected to cyclic shear stresses that can cause excess hydrostatic pressures to develop. If excess hydrostatic pressures exceed the effective confining stress from the overlying soil, the sand may undergo deformation. If the sand undergoes virtually unlimited deformation without developing significant resistance, it is said to have liquefied, and if the sand consolidates or vents to the

surface during and following liquefaction, ground settlement and surface deformation may occur. In some cases, settlements of approximately 2 to 3 percent of the thickness of the liquefiable layer have been measured.

As discussed previously, portions of the site, east of the historic mapped shoreline, are mapped as potentially liquefiable.

We analyzed 1-CPT10, 1-CPT11, and 1-CPT13 for liquefaction potential using methods described by NCEER (2001) and the software package CLiq version 1.7.6 34. We assumed a moment magnitude of 7.9 for our analyses to represent ground shaking on the controlling fault: the San Andreas Fault zone. We used a peak ground acceleration (PGA) of 0.53 corresponding to the mapped Geometric Mean Maximum Considered Earthquake (MCE_G) from the 2013 California Building Code (CBC). We estimated settlement resulting from liquefaction using the method by Zhang (2002).

The results of our liquefaction potential analysis are presented in Appendix D. We discuss the secondary effects of liquefaction in the following subsections.

2.8.1 Liquefaction-induced Settlement

Liquefaction-induced settlements are summarized below:

Table 2.8.1-1
Summary of Liquefaction-Induced Settlement Calculations

CPT Designation	Settlement (inches)
1-CPT10	4¾
1-CPT11	< ½
1-CPT13	7

According to the CPT interpretations, a majority of the liquefaction-induced settlement occurs within the variable strata of sand, silty sand, clay, and silty clay in the upper 20 to 42 feet in 1-CPT10 and 1-CPT13, respectively. 1-CPT11 was performed near the historic shoreline indicating that inland of the historic shoreline, liquefaction and resulting settlement would be relatively negligible. The variable nature of the liquefaction calculations is consistent with the expected heterogeneous composition of non-engineered fill. Low blow counts in our borings indicate that layers of the fill at those explorations are also liquefiable.

2.8.2 Surface Manifestation

As previously mentioned, potentially liquefiable near-surface soil may be prone to ground surface disruptions such as fissures and sand boils. Surface disruptions are more likely when the potentially liquefiable soil is not overlain by a sufficiently thick layer of nonliquefiable soil. Currently, a majority of the site east of the historic shoreline does not have a sufficient thickness

of non-liquefiable soil cover to eliminate ground surface disruptions. Potential mitigation options to mitigate liquefaction potential are presented in Section 3.1.

2.8.3 Lateral Spreading

Lateral spreading is a failure within a nearly horizontal soil zone that causes the overlying soil mass to move toward a free face or down a gentle slope. Generally, the effects of lateral spreading are most significant at the free face or the crest of a slope, and diminish with distance from the slope.

Based on the topography of the site, the current eastern shoreline may act as a free face that is potentially susceptible to lateral spreading. We evaluated the possibility of lateral spreading in our slope stability analysis, which is presented in Section 2.9.

2.9 SLOPE STABILITY ANALYSES

2.9.1 Method of Analysis

Due to the presence of thick layers of soft Young Bay Mud below the site, our experience on similar projects indicates that deformation of the shoreline could occur as a result of seismic loads consistent with the design-level earthquake. To assess this risk, we performed a simplified deformation analysis using the computer program SLIDE (Version 7) to evaluate seismic slope stability of the eastern shoreline. We used both circular and non-circular search methods to analyze the current conditions along the shoreline. For our analyses, we used the following data collected/prepared by previous consultants at the site: generalized subsurface profiles, groundwater data, and geotechnical laboratory test data. The location of the generalized subsurface profiles are shown on Figure 2. For ground-motion parameters, we utilized a peak ground acceleration of 0.48g.

We performed the “pseudostatic” screening analysis as recommended in SP117A. For this screening, we selected a pseudostatic seismic coefficient of 0.24g based on a displacement threshold of about 15 centimeters (6 inches). Both of the cross-sections failed this check so we then performed a Newmark-type displacement analysis using the methods discussed by NCHRP 611. We analyzed both shallow non-circular failures through the potentially liquefiable fill to estimate potential lateral displacement due to liquefaction, and deep circular failures through the Young Bay Mud.

2.9.2 Soil Strength Parameters

Based on our field exploration and our review of previous field explorations at the site, we utilized the following general strength parameters for the subsurface soil:

TABLE 2.9.2-1
Soil Strength Parameters

Soil Layer	Unit Weight (lbs/ft^3)	Cohesion (lbs/ft^2)	Friction Angle ϕ	S_u/σ'_{vo}
Existing Fill	120	-	34	-
Existing Fill (post-seismic, liquefied)	120	300	-	-
Young Bay Mud	100	-	-	0.3
Serpentinite Bedrock	125	10,000	-	-

To evaluate the potential performance of the slope under a reasonable high range of Young Bay Mud strength, we increased the strength of this material by 30 percent to represent a lightly over consolidated soil.

2.9.3 Results of Analyses

TABLE 2.9.3-1
Summary of Slope Stability Analysis

Section Name	Static	Seismic	
	Factor of Safety	Potential Seismic Slope Deformation (feet)	
		Shallow Surfaces	Deep Surfaces
Section A	2.4	3½	2 to 2½
Section B	1.5	5	3½ to 4

As shown in the table above, the results of our analysis indicate significant potential seismic slope deformation. We estimate that theoretical seismically induced permanent displacements to be on the order of up to 2 to 4 feet based on simplified methods; based on our analyses, this potential displacement could occur between the historic shoreline and the existing the shoreline, which is a distance of over 500 feet in some places. Our slope stability result outputs are contained in Appendix C.

3.0 CONCLUSIONS

From a geotechnical engineering viewpoint, in our opinion, the site is suitable for the proposed redevelopment, provided the following geotechnical concerns are addressed during design.

3.1 EXISTING FILL AND SOFT/COMPRESSIBLE SOIL

Review of the site history, previous explorations, and current field explorations, indicate the site is underlain by significant thicknesses of non-engineered fill and Young Bay Mud.

Much of the fill is derived from serpentine bedrock. Serpentine can contain the fibrous mineral chrysotile, which is considered an asbestoform mineral. In other locations in San Francisco, chrysotile and other asbestoform minerals have been identified in the Franciscan formation.

It is our opinion that the project will be required to follow the rules and regulations outlined in the Asbestos Airborne Toxic Control Measure (ATCM) for Construction, Grading, Quarrying and Surface Mining Operations established by the Bay Area Air Quality Management District (District) under California Code of Regulations, Title 17, Section 93015. The purpose of this regulation is to reduce public exposure to NOA from construction and mining activities that emit dust, which may contain NOA. The ATCM requires regulated operations engaged in road construction and maintenance activities, construction and grading operations, and quarrying and surface mining operations in areas where NOA is likely to be found, to employ the best available dust mitigation measures in order to reduce and control dust emissions.

As part of compliance with the ATCM, an Asbestos Dust Mitigation Plan (ADMP) should be prepared by a qualified representative for approval by the BAAQMD and for inclusion in the contract documents. Our experience indicates that dust monitoring during ground disturbing activities may be required.

Non-engineered fill and Young Bay Mud can undergo excessive settlement, especially under new fill or building loads. We understand that offhaul of the existing fill may not be economically viable depending on the location on site where the material is removed, and the site has relatively shallow groundwater east of the historic shoreline; both of these conditions reduce potential mitigation options.

Potential options for addressing potential consolidation of the Young Bay Mud include installing wick drains and surcharging areas where grades will be raised or relatively light structures are planned. The existing fill could be improved in place to drastically reduce the effects of liquefaction settlement and static settlement of non-engineered material through vibratory methods such as vibro-compaction or vibro-replacement. This type of ground improvement would have the added benefit of reducing lateral displacement due to liquefaction.

Settlement may also be addressed under moderately to highly loaded buildings with deep foundations extending to bedrock. While estimated bedrock contours indicate a maximum bedrock depth of approximately 90 feet at the eastern boundary of the site, we understand that open space is planned to extend at least 100 feet west of the shoreline. We estimate that the depth to bedrock below structures east of the historic shoreline but west of the open space would be a maximum of approximately 70 feet. Please refer to Figure 6 for bedrock contours across the site. A cost effective pile foundation system on similar projects is steel pipe-piles driven to refusal in bedrock.

As discussed in Section 2.9, our preliminary analyses indicates the soft Young Bay Mud could be subject to lateral slope displacement under design seismic loading. The amount of displacement would not be tolerable for existing or planned structures constructed east of the

historic shoreline. We recommend reinforcing this slope by either constructing a structural wall or deep soil mix (DSM) buttress along the shoreline.

Structural wall solutions include a tied-back sheet pile wall, rows of secant piles, and king-pile wall. The most cost-effective structural solution will likely be a king-pile wall that combines large-diameter stiff vertical piles interconnected with steel sheet piles. However , based on our recent experience on similar projects, a DSM buttress would likely be the most cost-effective shoreline stabilization alternative.

For planning purposes, we recommend assuming the DSM buttress extends to a depth at least 5 feet deeper than the bottom of the Young Bay Mud and have a width (extending west from the front face) equal to at least ¾ the depth; we also recommend assuming a minimum replacement ratio of 30 percent and that the improvement consists of continuous panels. A shoreline stabilization structure of DSM buttress would address lateral spreading as well as seismic slope deformation.

We performed preliminary seismic slope stability analysis for Section A assuming a DSM buttress with the parameters listed above. According to our analysis, the DSM buttress could be designed to achieve permanent slope deformations of less than 6 inches. At this time, we did not perform preliminary seismic slope stability of other potential mitigation options along the shoreline. The DSM buttress should be further refined once the set back of development of the shoreline is better known.

3.2 SEISMIC HAZARDS

Potential seismic hazards resulting from a nearby moderate to major earthquake can generally be classified as primary and secondary. The primary effect is ground rupture, also called surface faulting. The common secondary seismic hazards include ground shaking, and ground lurching. The following sections present a discussion of these hazards as they apply to the site. Based on topographic and lithologic data, the risk of regional subsidence or uplift, tsunamis, or seiches is considered low to negligible at the site.

3.2.1 Ground Rupture

Since there are no known active faults crossing the property and the site is not located within an Earthquake Fault Special Study Zone, it is our opinion that ground rupture is unlikely at the subject property.

3.2.2 Ground Shaking

An earthquake of moderate to high magnitude generated within the San Francisco Bay region could cause considerable ground shaking at the site, similar to that which has occurred in the past. To mitigate the shaking effects, structures should be designed using sound engineering judgment and the 2013 California Building Code (CBC) requirements, as a minimum. Seismic design provisions of current building codes generally prescribe minimum lateral forces, applied

statically to the structure, combined with the gravity forces of dead-and-live loads. The code-prescribed lateral forces are generally considered to be substantially smaller than the comparable forces that would be associated with a major earthquake. Therefore, structures should be able to: (1) resist minor earthquakes without damage, (2) resist moderate earthquakes without structural damage but with some nonstructural damage, and (3) resist major earthquakes without collapse but with some structural as well as nonstructural damage. Conformance to the current building code recommendations does not constitute any kind of guarantee that significant structural damage would not occur in the event of a maximum magnitude earthquake; however, it is reasonable to expect that a well-designed and well-constructed structure will not collapse or cause loss of life in a major earthquake (SEAOC, 1996).

3.2.3 Ground Lurching

Ground lurching is a result of the rolling motion imparted to the ground surface during energy released by an earthquake. Such rolling motion can cause ground cracks to form in weaker soils. The potential for the formation of these cracks is considered greater at contacts between deep alluvium and bedrock. Such an occurrence is possible at the site as in other locations in the Bay Area region, but based on the site location, it is our opinion that the offset is expected to be minor.

3.2.4 Flooding

Based on site elevation, flooding is not expected at the subject site; however, the Civil Engineer should review pertinent information relating to possible flood levels for the subject site based on final pad elevations and provide appropriate design measures for development of the project, if recommended.

3.3 2013 CBC SEISMIC DESIGN PARAMETERS

The portions of the site west of the historic shoreline are on shallow bedrock and as such a Site Class C would be appropriate for seismic design. East of the historic shoreline, due to liquefaction, a Site Class F applies meaning a site response analysis is required for all buildings with a fundamental period over 0.5 seconds; a site-response analysis was beyond the scope of our current authorization. For buildings with a period equal to or less than 0.5 seconds, a Site Class E can be used per ASCE 7-10. We provide the 2013 CBC seismic design parameters in table below, which includes design spectral response acceleration parameters based on the mapped Risk-Targeted Maximum Considered Earthquake (MCE_R) spectral response acceleration parameters.

TABLE 3.3-1
2013 CBC Seismic Design Parameters
Latitude: 37.75671 Longitude: -122.38317

Parameter	Value	
Site Class	C	E
Mapped MCE_R Spectral Response Acceleration at Short Periods, S_S (g)	1.5	1.50
Mapped MCE_R Spectral Response Acceleration at 1-second Period, S_1 (g)	0.60	0.60
Site Coefficient, F_A	1.0	0.9
Site Coefficient, F_V	1.3	2.4
MCE_R Spectral Response Acceleration at Short Periods, S_{MS} (g)	1.50	1.35
MCE_R Spectral Response Acceleration at 1-second Period, S_{M1} (g)	0.78	1.45
Design Spectral Response Acceleration at Short Periods, S_{DS} (g)	1.00	0.90
Design Spectral Response Acceleration at 1-second Period, S_{D1} (g)	0.52	0.96
Mapped MCE Geometric Mean (MCE_G) Peak Ground Acceleration, PGA (g)	0.53	0.53
Site Coefficient, F_{PGA}	1.00	0.90
MCE_G Peak Ground Acceleration adjusted for Site Class effects, PGA_M (g)	0.53	0.48
Long period transition-period, T_L	12	12

4.0 PRELIMINARY RECOMMENDATIONS

4.1 Foundation Types

As previously discussed, based off review of previous explorations and the current limited subsurface exploration, we anticipate that moderately to highly loaded structures east of the historic shoreline will require deep foundations that will be embedded into bedrock. Given current site elevations, published bedrock contours across the site, and the initial plan for open space at the easternmost 100 feet of the site, we therefore estimate deep foundations will be up to approximately 70 feet in length at the eastern portion of the site. Specific foundation recommendations will be provided for the overall development upon completion of a design-level exploration and once building types and layouts are determined.

Structures west of the historic shoreline can likely be founded on shallow foundations once any existing non-engineered fill has been mitigated. We anticipate these foundation types will include mat foundations and spread footings. Mat foundations and spread footings directly bearing on native bedrock can be designed for an allowable bearing pressure of 5,000 psf; this bearing pressure can be increased by one-third for load combinations including wind and seismic load. Based on our experience in the area and following a design-level investigation, we anticipate that these allowable bearing pressures may rise.

We recommend a design-level investigation be performed to better characterize rock strengths and subsurface conditions in the vicinity of the historic shoreline, and to develop design-level recommendations for shoreline stabilization and deep foundations.

5.0 LIMITATIONS AND UNIFORMITY OF CONDITIONS

This report presents preliminary geotechnical recommendations for planning and design of the improvements discussed in Section 1.3 for the Potrero Power Plant project. If changes occur in the nature or design of the project, we should be allowed to review this report and provide additional recommendations, if any. It is the responsibility of the owner to transmit the information and recommendations of this report to the appropriate organizations or people involved in design of the project, including but not limited to developers, owners, buyers, architects, engineers, and designers. The conclusions and recommendations contained in this report are solely professional opinions and are valid for a period of no more than 2 years from the date of report issuance.

We strived to perform our professional services in accordance with generally accepted geotechnical engineering principles and practices currently employed in the area; no warranty is expressed or implied. There are risks of earth movement and property damages inherent in building on or with earth materials. We are unable to eliminate all risks or provide insurance; therefore, we are unable to guarantee or warrant the results of our services.

This report is based upon field and other conditions discovered at the time of report preparation. We developed this report with limited subsurface exploration data. We assumed that our subsurface exploration data is representative of the actual subsurface conditions across the site. Considering possible underground variability of soil, rock, stockpiled material, and groundwater, additional costs may be required to complete the project. We recommend that the owner establish a contingency fund to cover such costs. If unexpected conditions are encountered, notify ENGEO immediately to review these conditions and provide additional and/or modified recommendations, as necessary.

Our services did not include excavation sloping or shoring, soil volume change factors, flood potential, or a geohazard exploration. In addition, our geotechnical exploration did not include work to determine the existence of possible hazardous materials. If any hazardous materials are encountered during construction, notify the proper regulatory officials immediately.

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Actual field or other conditions will necessitate clarifications, adjustments, modifications or other changes to ENGEO’s documents. Therefore, ENGEO must be engaged to prepare the necessary clarifications, adjustments, modifications or other changes before construction activities commence or further activity proceeds. If ENGEO’s scope of services does not include on-site construction observation, or if other persons or entities are retained to provide such

services, ENGEO cannot be held responsible for any or all claims arising from or resulting from the performance of such services by other persons or entities, and from any or all claims arising from or resulting from clarifications, adjustments, modifications, discrepancies or other changes necessary to reflect changed field or other conditions.

We determined the lines designating the interface between layers on the exploration logs using visual observations. The transition between the materials may be abrupt or gradual. The exploration logs contain information concerning samples recovered, indications of the presence of various materials such as clay, sand, silt, rock, existing fill, etc., and observations of groundwater encountered. The field logs also contain our interpretation of the subsurface conditions between sample locations. Therefore, the logs contain both factual and interpretative information. Our recommendations are based on the contents of the final logs, which represent our interpretation of the field logs.

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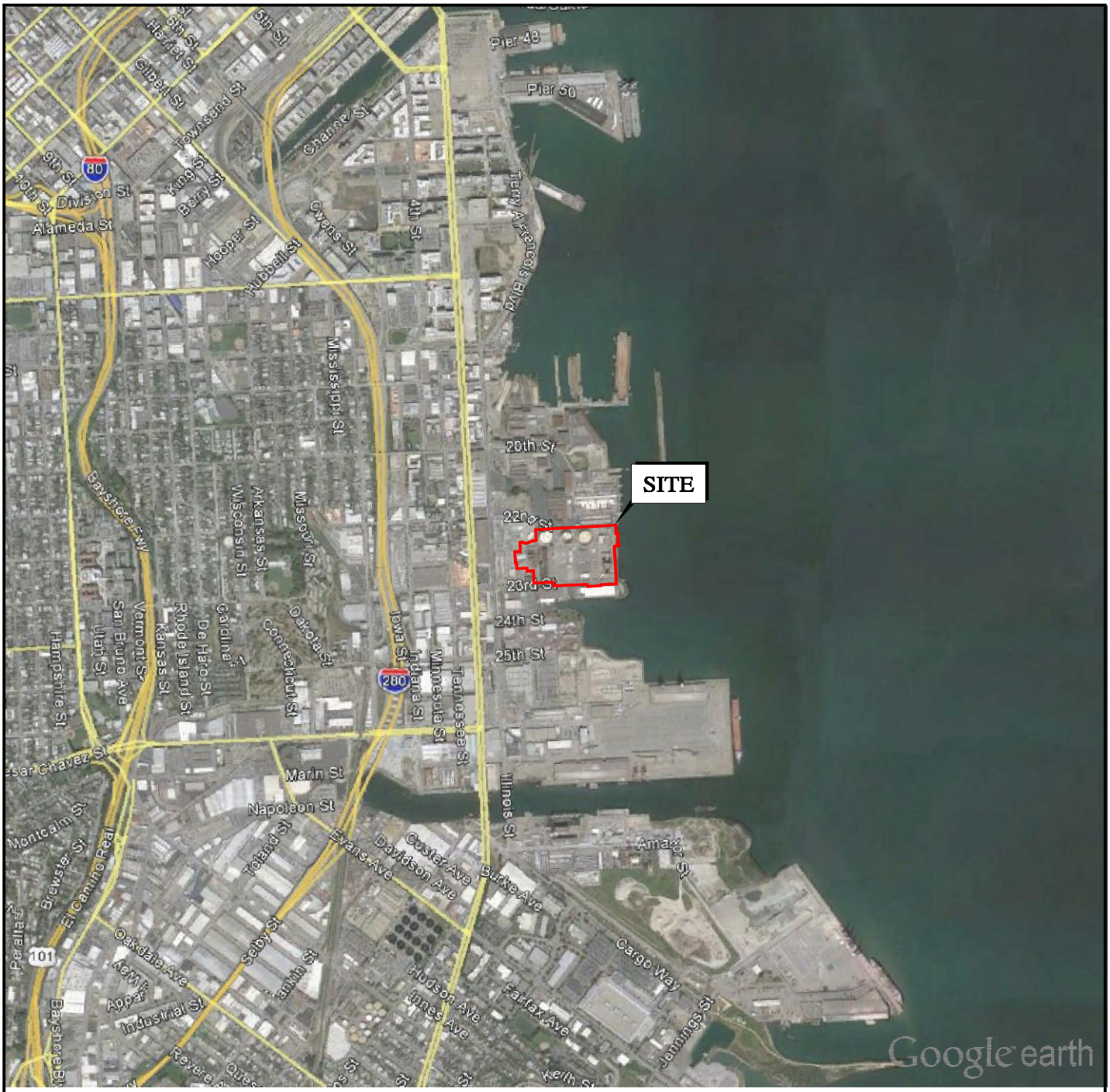

N

0 FEET 2000

0 METERS 1000

BASE MAP SOURCE: GOOGLE EARTH MAPPING SERVICE

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VICINITY MAP

POTRERO POWER PLANT

SAN FRANCISCO, CALIFORNIA

PROJECT NO.: 12545.000.000			FIGURE NO. 1
SCALE: AS SHOWN			
DRAWN BY: SRP	CHECKED BY: JF		

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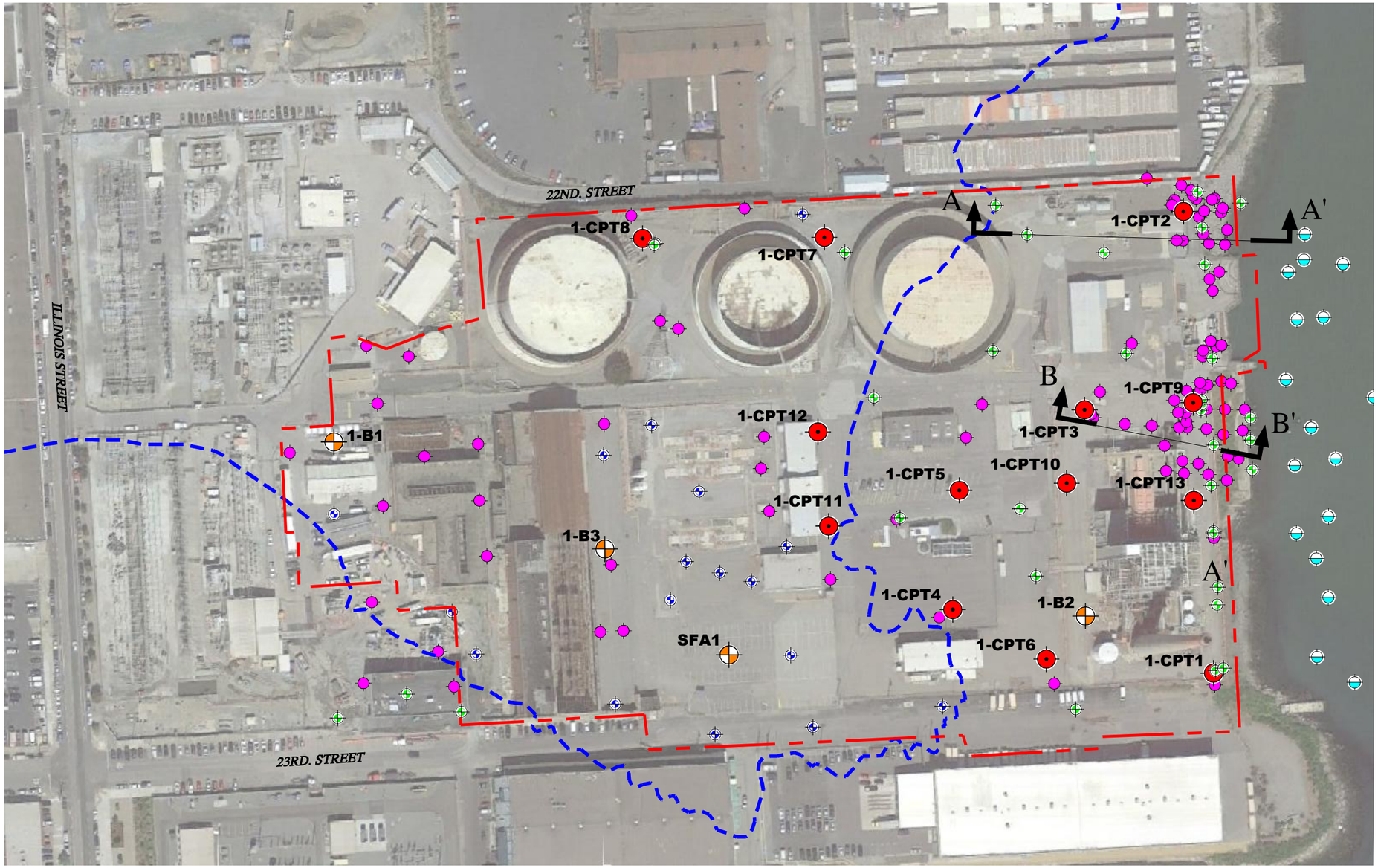

EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- 1-B3 — BORING (ENGEO, 2015)
- 1-CPT13 — CONE PENETRATION TEST (ENGEO, 2015)
- SEDIMENT BORING (BY OTHERS)
- MONITORING WELL (BY OTHERS)
- BEDROCK MONITORING WELL (BY OTHERS)
- SOIL BORING (BY OTHERS)
- A — A' CROSS SECTION LOCATION
- 1851 SHORELINE

N

0 FEET 160

0 METERS 80

BASE MAP SOURCE: GOOGLE EARTH MAPPING SERVICE

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SITE PLAN

POTRERO POWER PLANT

SAN FRANCISCO, CALIFORNIA

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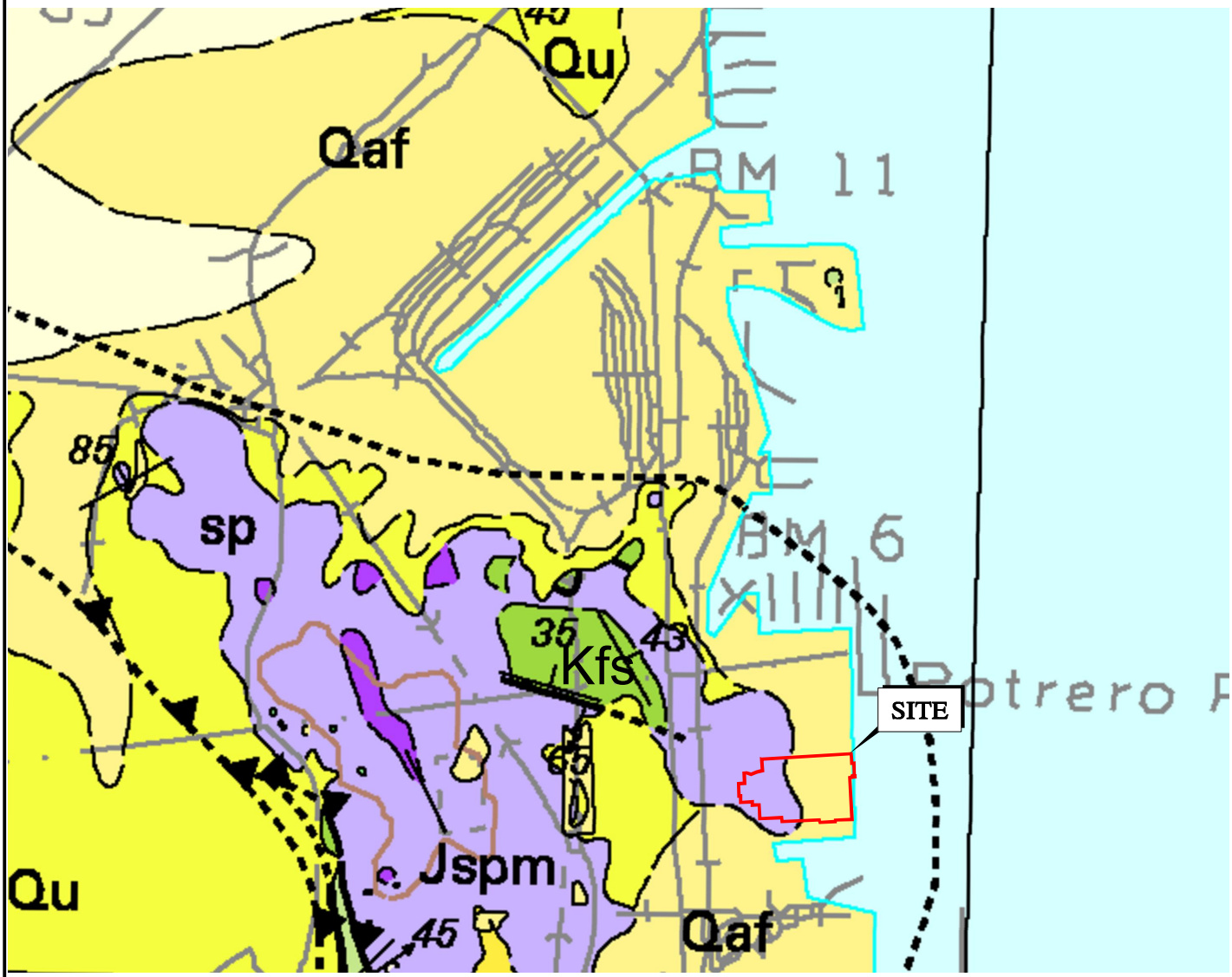

EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

GEOLOGIC CONTACT-DASHED WHERE GRADATIONAL OR APPROXIMATELY LOCATED

FAULT-DASHED WHERE INFERRED, DOTTED WHERE CONCEALED, QUERIED WHERE EXISTENCE IS DOUBTFUL. SAWTEETH ARE ON UPPER PLATE OF LOW ANGLE THRUST FAULT.

STRIKE AND DIP OF STRATA

INCLINED

Qaf	ARTIFICIAL FILL
Qu	UNDIFFERENTIATED SURFICAL DEPOSITS
Kfs	SANDSTONE AND SHALE
Jspm	MASSIVE SERPENTINITE
sp	SERPENTINITE

N

0 FEET 2000

0 METERS 1000

BASE MAP SOURCE: GRAYMER, 2000

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REGIONAL GEOLOGIC MAP

POTRERO POWER PLANT

SAN FRANCISCO, CALIFORNIA

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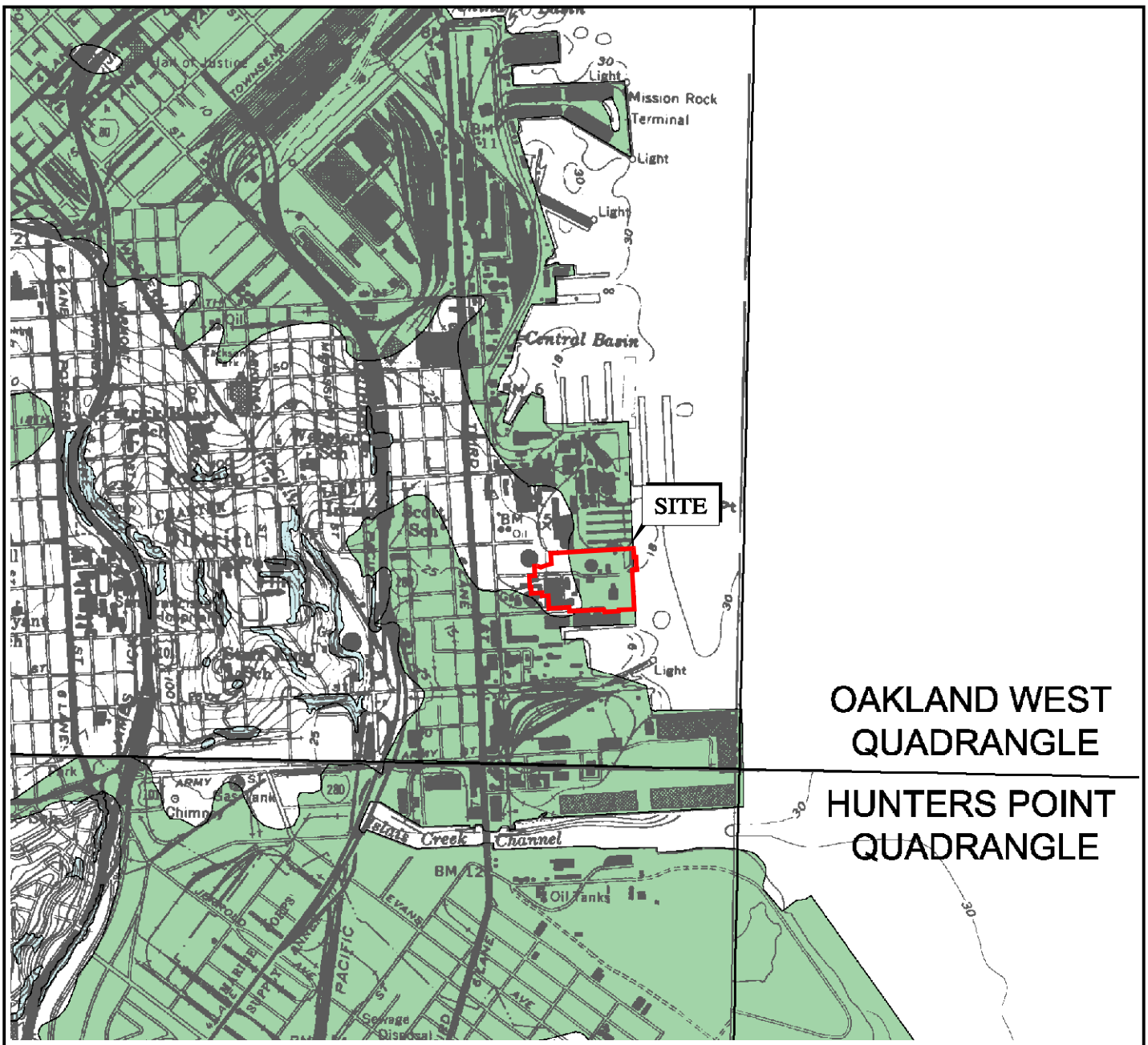

EXPLANATION

LIQUEFACTION

AREAS WHERE HISTORIC OCCURRENCE OF LIQUEFACTION, OR LOCAL GEOLOGICAL, GEOTECHNICAL AND GROUNDWATER CONDITIONS INDICATE A POTENTIAL FOR PERMANENT GROUND DISPLACEMENTS SUCH THAT MITIGATION AS DEFINED IN PUBLIC RESOURCES CODE SECTION 2693(c) WOULD BE REQUIRED

EARTHQUAKE-INDUCED LANDSLIDES

AREAS WHERE PREVIOUS OCCURRENCE OF LANDSLIDE MOVEMENT, OR LOCAL TOPOGRAPHIC, GEOLOGICAL, GEOTECHNICAL AND SUBSURFACE WATER CONDITIONS INDICATE A POTENTIAL FOR PERMANENT GROUND DISPLACEMENTS SUCH THAT MITIGATION AS DEFINED IN PUBLIC RESOURCES CODE SECTION 2693(c) WOULD BE REQUIRED

N

0 FEET 2000

0 METERS 1000

BASE MAP SOURCE: CALIFORNIA DEPARTMENT OF CONSERVATION, CALIFORNIA GEOLOGICAL SURVEY, 2006

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SEISMIC HAZARD ZONES MAP

POTRERO POWER PLANT

SAN FRANCISCO, CALIFORNIA

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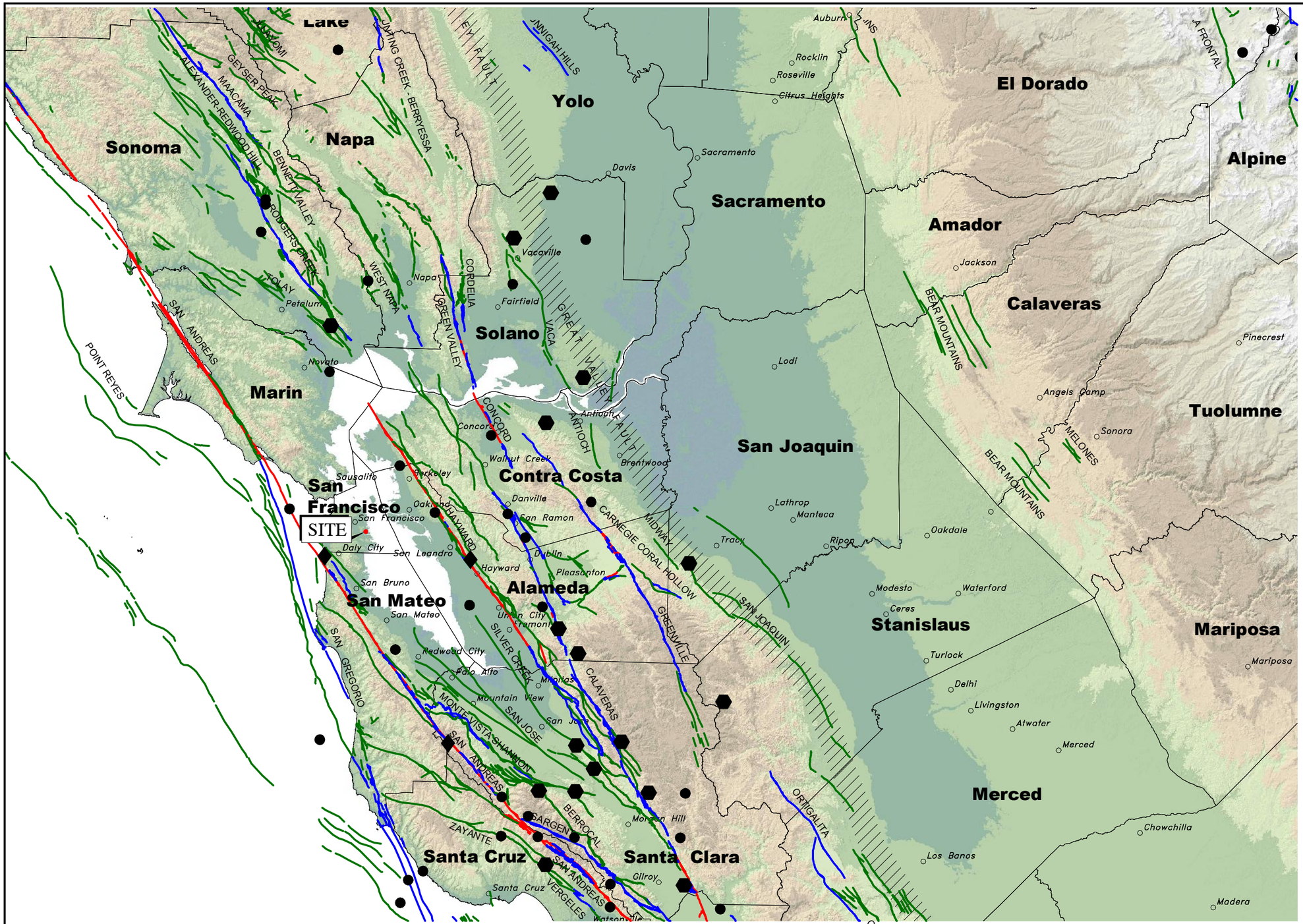
Lake
Sonoma
Napa
Yolo
Solano
Marin
San Francisco
SITE
San Mateo
Alameda
Contra Costa
Santa Cruz
Santa Clara
San Joaquin
Sacramento
El Dorado
Alpine
Amador
Calaveras
Tuolumne
Stanislaus
Mariposa
Merced
Auburn
Rocklin
Roseville
Citrus Heights
Davis
Vacaville
Fairfield
Napa
Petaluma
Novato
Lodi
Jackson
Pinecrest
Angels Camp
Sonora
Concord
Walnut Creek
Antioch
Brentwood
Danville
San Ramon
Dublin
Pleasanton
Hayward
Berkeley
Sausalito
Oakland
San Francisco
Daly City
San Leandro
San Bruno
San Mateo
Redwood City
Palo Alto
Mountain View
San Jose
Milpitas
Fremont
Union City
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Morgan Hill
Santa Cruz
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Manteca
Tracy
Ripon
Oakdale
Modesto
Waterford
Ceres
Turlock
Delhi
Livingston
Atwater
Merced
Los Banos
Chowchilla
Madera
Mariposa
HAYWARD
CALAVERAS
GREENVILLE
MIDWAY
CARNEGIE CORAL HOLLOW
SAN JOAQUIN
ORTIGALITA
BERROCAL
SARGENT
ZAYANTE
VERGELES
SAN ANDREAS
MONTE VISTA-SHANNON
SILVER CREEK
SAN GREGORIO
POINT REYES
GREEN VALLEY
CORDELIA
WEST NAPA
RODGERS CREEK
BENNETT VALLEY
HUNTING CREEK - BERRYESSA
MAACAMA
GEYSER PEAK
ALEXANDER-REDWOOD HILL
KONOCTI
JUNIPERO
JUNIPERO
JUNIPERO

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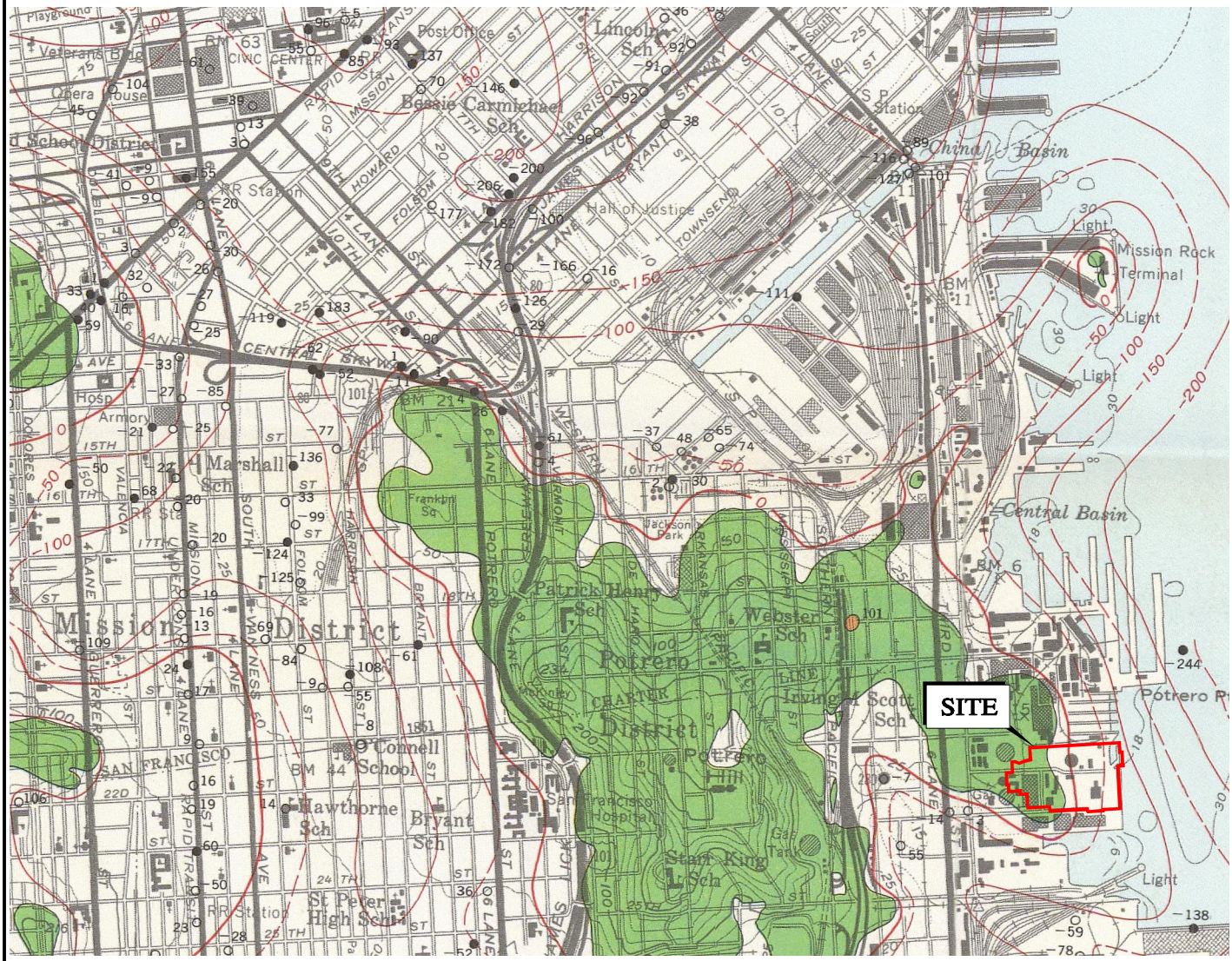

EXPLANATION

Exposed bedrock

Includes Franciscan Formation and serpentine

0

50

100

Elevation contours on buried bedrock in mean sea level

N

0 FEET 2000

0 METERS 1000

BASE MAP SOURCE: SCHLOCKER, 1959–61

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BEDROCK CONTOUR MAP

POTRERO POWER PLANT

SAN FRANCISCO, CALIFORNIA

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SCALE: AS SHOWN		
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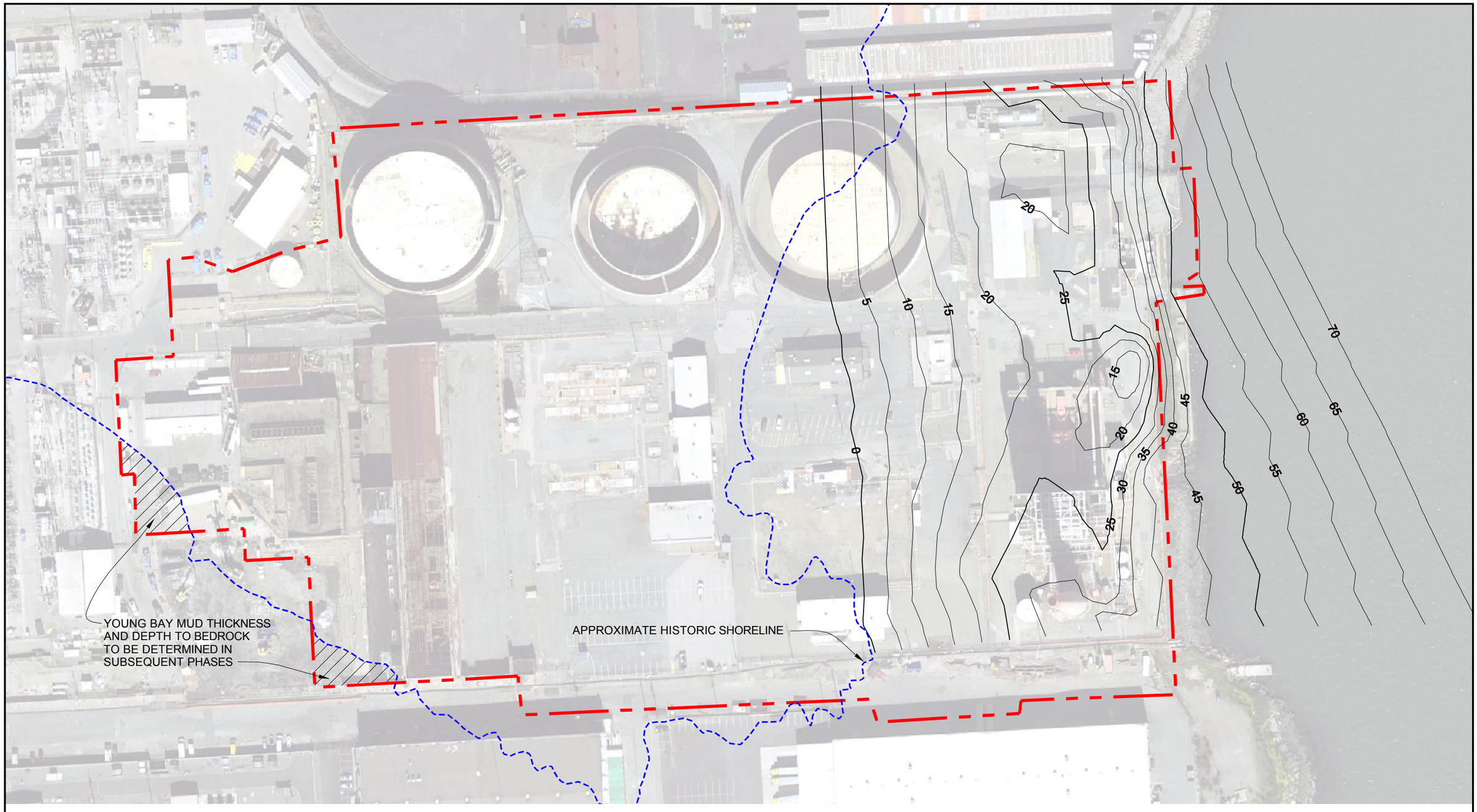

N

0 FEET 120
0 METERS 60

EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

50 ESTIMATED BAY MUD THICKNESS IN FEET

BASE MAP SOURCE: USGS, 2015

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ESTIMATED BAY MUD THICKNESS
POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

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Appendix B
Risk Management Plan (RMP)

RISK MANAGEMENT PLAN
STATION A NRG AREA
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

by

Haley & Aldrich, Inc.
Walnut Creek, California

PIVOX Corporation
Irvine, California

for

Pacific Gas and Electric Company
San Ramon, California

File No. 37450-631
16 June 2016

HALEY ALDRICH

PIVOX Corporation
Construction and Remediation

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F	Guidelines for Dust Monitoring

1. INTRODUCTION

On behalf of PG&E, Haley and Aldrich and Pivox have prepared two Risk Management Plans for the 13-acre Station A Area of the Potrero Power Plant Site located at 1201 Illinois Street in San Francisco, California (Figure 1). The 13-acre Station A Area comprises a 12-acre NRG, Potrero, LLC (NRG)-owned portion (Station A NRG Area) and a one-acre Pacific Gas and Electric (PG&E)-owned portion (Station A PG&E Area).

This Risk Management Plan (RMP) applies to the 12-acre NRG-owned portion of the Station A Area. The RMP for the PG&E-owned portion is presented as a separate document.

Between 1998 and 2012, numerous environmental investigations have identified residual pollutants collectively referred to as constituents of concern (COCs) in the soil, soil vapor, and groundwater beneath the 13- acre Station A Area, The results of these investigations, along with an evaluation of potential human health risks, indicate that risk reduction and/or risk management measures are appropriate to mitigate potential health risks associated with exposures to residual COCs.

The chosen remedy for the Station A NRG Area is the construction and/or maintenance of a durable cover combined with institutional controls to manage potential health risks. A description of the mitigation elements, which comprise the remedy is described in Section 2.6 and summarized below:

- Engineering controls, including durable covers over existing soil to prevent human exposure to COCs in the existing soil;
- Institutional controls, including this RMP, Operation and Maintenance (O&M) Plans and a Land Use Covenant (LUC), designed to minimize the potential for COCs to impact human health and the environment; and
- Long-term maintenance and monitoring of the engineering controls, including durable covers, to ensure that they continue to function as designed.

The RMP is an essential component of the remedy for the Station A NRG Area. It is a tool for ensuring effectiveness of the institutional controls and provides a framework to manage residual COCs in a manner that protects users during current and future land use. It specifies measures to mitigate potential risks to the environment, current and future on-site employees, construction and maintenance workers, visitors, and the public. It was prepared under oversight of the San Francisco Regional Water Quality Control Board (Water Board) to provide specifications and details on how risk will be mitigated and managed during future use of the Station A NRG Area, including during construction and maintenance activities. As further explained in Section 1.4, the Water Board is the designated Administering Agency for the entire Potrero Power Plant Site, including the Station A Area, under California Health and Safety Code section 25260, et seq., meaning that the Water Board supervises all aspects of cleanup and is granted sole jurisdiction over all activities necessary to respond to release of hazardous materials.

The covenant and environmental restriction on the property (Land Use Covenant or LUC), which is recorded by the Owner and enforceable by the Water Board, is another important component of the institutional controls. As described below in Section 1.1, it restricts certain uses of the Station A NRG Area, requires compliance with this RMP, is recorded in the official records of the City and County of San Francisco (the City), and is binding on all current and future site owners. Noncompliance with the requirements of this RMP will violate the terms of the LUC.

For the purpose of this RMP, ground surface within the Station A NRG Area is categorized as "existing soil," "existing cover," or "durable cover." These terms are defined as follows:

- Existing soil refers to soil present at the Station A NRG Area when the remedy was approved, regardless of its provenance. The existing soil in the Station A NRG Area consists mostly of historic fill placed during the evolution and development of the 13-acre Station A Area, and typically contains COCs at concentrations that pose a potential threat to human health and the environment as described in the HHRA.
- Existing cover refers to any of the various types of surface treatments that currently exist within the Station A NRG Area, including streets, buildings, sidewalks, asphalt, concrete paving, and/or other durable hardscape that prevents contact with existing soil.
- Durable cover refers to durable surface treatments that adequately prevent exposure to existing soil, such as those listed in Section 2.5.

1.1 Summary of Land Use Restrictions

An LUC between NRG and the Water Board containing environmental restrictions on the Station A NRG Area, is required to be recorded with the City and County of San Francisco as part of the remedy for the Station A NRG Area. The LUC is enforceable by the Water Board.

The LUC incorporates and requires compliance with the RMP. It also restricts the Station A NRG Area from being used for temporary/permanent residence, motels/hotels, health care facilities, schools for persons under 21 years of age, daycare center for children/senior citizens, park, playground, or other recreational use. Additionally, groundwater shall not be used for domestic purposes (e.g., drinking, cooking, or washing); any other uses (e.g., dust control) would need to be approved in writing by the Water Board. In summary, uses and activities that would increase the risk of exposure to hazardous materials are prohibited. A copy of the LUC is included in Appendix A.

Section 3.6 provides a brief description of the necessary actions for a change in land use from approved land uses (commercial/industrial) to currently restricted land uses. The specific procedures for obtaining such approval are included in Appendix B.

It should be noted that there are currently other private deed restrictions on the entire 22-acre power plant property. These documents are also recorded with the City.

1.2 Intended Users

This RMP is intended for use by the following entities or their designees who may occupy, manage, perform, or oversee maintenance or construction within the Station A NRG Area as delineated in Figure 2. Intended Users of this RMP include the following:

- **Owner** – current property owner at any given time (term also applies to leaseholders). The Station A NRG Area is currently owned by NRG. The Owner is considered as the ultimate responsible party for implementing the RMP.
- **Owner's Representative** – party engaged by the Owner to assist in implementing this RMP, typically a licensed professional scientist, engineer, or consultant.
- **Project Proponents**: developers, ground lessees, tenants, licensees or other entities authorized by the Owner to conduct operations, maintenance, construction or other activities at the Station A NRG Area.

- **Contractor** – party that the Owner or Project Proponent retains to conduct construction activities at the Station A NRG Area.
- **Regulatory Agency** – agency overseeing activities at the Station A NRG Area. As discussed in Section 1.4, the Water Board is the designated Administrating Agency of the Station A NRG Area as per the California Health and Safety Code Section 25260.

The Owner may designate their Representative, the Project Proponent, or a Contractor to act on their behalf; however, this does not release the Owner from the responsibility of ensuring the proper implementation of the RMP, as specified in the LUC. All references to Owner in this RMP are implied to include the Owner's Representative, the Project Proponent, and Contractor. The Owner shall provide a copy of the RMP to all parties who will perform work in the Station A NRG Area that poses the potential for exposure to COCs. As described in Section 5.3, The Owner must provide a copy of the RMP to lessees, permittees, tenants, contractors, future transferees or any other party with the legal right to perform subsurface work on the Station A NRG Area.

1.3 Objectives

The objectives of this RMP are:

- To present guidelines for appropriate health and safety precautions for the Station A NRG Area construction or maintenance workers who may access soil or groundwater that could contain residual COCs.
- To maintain security measures to prevent unauthorized public access to the Station A NRG Area.
- To present procedures for short-term (i.e., during maintenance and construction activities) management of the residual COCs present in the Station A NRG Area soil and groundwater to minimize exposure to construction/maintenance workers, site users, and the public.
- To present procedures for post-construction (i.e., during ongoing site use) management of the residual COCs present in the Station A NRG Area soil and groundwater and to minimize exposure to construction/maintenance workers, site users, and the public.
- To present procedures for ensuring that the components of the Station A NRG Area remedy are maintained in a condition that allows them to operate properly and successfully, before, during, and after construction activities.
- To present procedures for addressing yet unknown conditions that may be discovered through the course of future redevelopment activities, especially those that result in exposure to existing soil.
- To provide a summary of procedures for obtaining agency approval required as part of redevelopment or a change in land use to a currently restricted land use.

Section 1 provides information on the regulatory status, Section 2 and Appendix C provide a summary of the site background and environmental conditions, Section 3 outlines the implementation of the RMP, Section 4 describes the notification requirements, and Sections 5 through 7 provide RMP guidelines for pre-construction, during-construction, and post-construction activities. Section 8 discusses the public review process.

1.4 Regulatory Oversight

The Water Board is the designated Administering Agency for the entire Potrero Power Plant Site, including the Station A NRG Area, under California Health and Safety Code section 25260, et seq.,

meaning that the Water Board supervises all aspects of cleanup and is granted sole jurisdiction over all activities necessary to respond to release of hazardous materials. Water Board staff is responsible for public engagement and maintaining communication with state/local regulatory agencies for appropriate consultation. An advisory team composed of the following State and local agencies has been convened (i.e., supporting agencies):

- City and County of San Francisco, Department of Public Health (SFDPH); and
- California Department of Fish and Wildlife (CDFW).

It should be noted that involvement of the CDFW has been primarily limited to areas of the Potrero Power Plant Site outside of the Station A NRG Area, such as offshore areas. This RMP has been submitted to these supporting agencies for review. Agency comments, if provided, will be submitted to the Water Board's staff for approval and this RMP will be amended accordingly. It is anticipated that this RMP will satisfy the substantive requirements of Articles 22A and 22B of the San Francisco Health Code. SFDPH's written concurrence shall be obtained (i.e., via completion of SFDPH application process) prior to implementation of ground disturbing activities that would initiate compliance with Articles 22A and 22B of the San Francisco Health Code.

Each supporting agency will be informed of activities occurring on the property as provided by this RMP. They are also anticipated to consult with the Water Board on an ongoing basis. Even though Water Board staff may solicit input on portions of the regulatory oversight from other agencies, such as the SFDPH, the decision-making entity of record regarding environmental considerations at the Station A NRG Area is the Water Board. The Water Board is also the beneficiary of the LUC.

2. BACKGROUND

This section describes the uplands portion of the Potrero Power Plant Site, its setting and history pertinent to current environmental conditions, with a focus on the Station A NRG Area. Appendix C provides a more comprehensive description of the history of the Station A NRG Area and associated environmental conditions.

2.1 Site Description and Current Use

The 12-acre Station A NRG Area is a sub-area of the Potrero Power Plant Site, The Potrero Power Plant Site is located in an industrial waterfront area of San Francisco, south of the central business district, and is bounded by Illinois Street to the west, 23rd Street and industrial properties to the south, San Francisco Bay to the east, and the Port of San Francisco's Pier 70 property to the north (Figure 1). Overall, the Potrero Power Plant Site is 34 acres. PG&E divested 22 acres of the Potrero Power Plant Site including the power generation facilities in 1999 and kept 12 acres of it for its on-going transmission, gas loading, and dirt handling operations. In 2016, PG&E purchased back 1 acre of the original 13-acre Station A Area property for building a Gas Insulated Substation. NRG currently owns 21 of the 34 acres, and Station A NRG Area is 12 acres. Power plant operation at the site ceased on March 1, 2011.

Figure 2 shows the PG&E and NRG owned portions of the Potrero Power Plant site. The Station A NRG Area is located in the south-central portion of the Potrero Power Plant Site (Figure 3) and is bounded to the west by PG&E's Switchyard and the Station A PG&E Area, to the north by Humboldt Street, to the east by the former power generating unit (i.e., Unit 3), and to the south by 23rd Street. As shown on Figure 3, structures within the Station A NRG Area consist of the former Station A building (central portion), a former gas metering house, compressor building, and machine shop (northwest corner). Structures associated with ceased power plant operations include an electrical shop, an abrasive blast building, and maintenance/storage buildings. Additionally, there were three diesel-powered "peaker" power generation units (Units 4, 5, and 6) that were removed from the Station A Area in 2011. Except for limited areas, the Station A PG&E Area is either occupied by structures or covered with asphalt or concrete pavement.[1]

2.2 Potential Future Redevelopment Plans

The future redevelopment plans for the NRG-owned portion of the Potrero Power Plant site are not known at the adoption of this RMP. PG&E is currently obligated to mitigate environmental impacts using engineering and institutional controls consistent with industrial/commercial use. As discussed in Section 3.6 and Appendix A, necessary actions are required by the Owner to change the land use from currently approved land uses (commercial/industrial).

2.3 Site History

Historical operations within in the Station A Area included power generation and sugar refining, which were initiated in the early 1880s. Sugar refining continued until the 1950s and power generation until

[1] Condition of the durable cover across the entire Station A area is described in ETIC's April 2016, DRAFT 2015 Annual Report, Station A Durable Cover.

2011. Historical uses within other areas of the Potrero Power Plant site included manufactured gas plant (MGP) operations to the north and barrel manufacturing to the west and northwest. General historical usage at the Potrero Power Plant site is shown on Figure C-1 of Appendix C.

These industrial operations utilized coal, fuel oil, and/or natural gas. The Station A power generation facility, which was constructed in 1910, used steam turbines to generate electric power until the late 1960s. A gas holder used for storing manufactured/natural gas was located west of the Station A building. The gas holder was decommissioned and removed by the late 1970s; however, portions of the foundation are likely still in place. The Station A building is currently vacant, locked, and has restricted access.

2.4 Summary of Environmental Conditions

This section provides a brief summary of environmental conditions at the entire 13-acre Station Area pertinent to the protection of human health during routine site maintenance and/or construction activities where worker exposure to COCs is possible. Appendix C provides a more comprehensive description of the environmental conditions.

2.4.1 Geology and Hydrology

The Station A Area, along with the entire Potrero Power Plant Site, has been significantly influenced by the extensive placement of fill during the late 1800s and early 1900s. The fill consists of crushed serpentinite bedrock, building debris, soil, and possibly byproducts from former industrial site uses. The fill is underlain by bedrock in western portion of the site and Bay mud in the eastern. In general, the fill thickness in the Station A Area ranges from less than 2 feet to 30 feet and the depth to groundwater ranges from 7 to 13 feet below ground surface (bgs).

The existing soil within the Station A NRG Area is assumed to contain COCs and is subject to the conditions of this RMP. Existing soil is the soil present at the time the Station A NRG Area remedy was approved, regardless of its provenance.

2.4.2 Environmental Investigations

Numerous environmental investigations have been conducted at the Station A NRG Area. Soil, groundwater, and soil vapor samples have been collected as part of these investigations to evaluate for the presence of COCs. Reports documenting the results of these investigations have been submitted to the Water Board and are available for review at the Water Board's office (Region 2) and their GeoTracker website (http://geotracker.waterboards.ca.gov). Figures showing historical sampling locations and tables summarizing analytical results are included in Appendix C. Analytical results for the Station A NRG Area are highlighted in the tables.

2.4.2.1 Soil and Groundwater

Soil and groundwater samples (Figure C-2 in Appendix C) were analyzed for various COCs, including total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), metals, semi-volatile organic compounds (SVOCs) including phenols and polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and/or total cyanide. A select number of samples also were analyzed for asbestos, which is

likely associated with naturally occurring minerals in the soil (i.e., naturally occurring asbestos or NOA). The maximum concentrations of the primary COCs in soil within the entire 13-Acres Station A Area are summarized below:

- Benzo(a)pyrene at 119 milligrams per kilogram (mg/kg)
- Naphthalene at 460 mg/kg
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) at 2.8 mg/kg (xylenes)
- PCBs at 2.8 mg/kg
- Arsenic at 110 mg/kg
- Cobalt at 147 mg/kg
- Chromium at 1900 mg/kg
- Lead at 3,400 mg/kg
- Nickel at 2,300 mg/kg
- Total cyanide at 27 mg/kg
- NOA at 3%, with one sample containing 30% chrysotile fibers.

COCs in soil are present throughout the Station A Area (i.e., there is not an identifiable source area).

COCs in groundwater either were not detected or were present at concentrations consistent with historical concentrations in samples from site wells in the vicinity of the Station A Area. COCs with the greatest concentrations in groundwater include TPH quantified as diesel (TPHd), and xylenes, which were detected from historical wells within the central portion of Station A Area, at concentrations of 4,670 milligrams per liter (mg/L) and 4.3 mg/L, respectively.

2.4.2.2 Soil Vapor

Soil vapor surveys were conducted in 2009 and 2010 across the entire 22-acre NRG portion of the Potrero Power Plant site. Soil vapor samples were analyzed for TPH and VOCs, including naphthalene. Benzene and naphthalene were the primary COCs identified in soil vapor. The greatest concentrations of benzene and naphthalene were 0.288 micrograms per liter (μg/L) and 0.334 μg/L, respectively. These concentrations were identified within the central portion of the Station A Area. Methane was not detected in soil vapor samples collected from within the Station A Area. Sample locations are shown on Figure C-3 (Appendix C).

2.4.3 Evaluation of Potential Human Health Risks

A site-specific human health risk assessment (HHRA) for the Station A Area was conducted to evaluate the potential adverse health effects that may be associated with cumulative exposure to COCs detected in site soil, groundwater, and soil vapor.

The results of the HHRA indicate that, based on existing industrial site land use and site conditions, potential exposures to COCs in soil, groundwater, and soil vapor do not present an unacceptable human health risk for current and future commercial/industrial workers, including occasional visitors, due to the presence of the existing site durable cover (AMEC, 2011). If Station A NRG Area soil intrusive work (e.g., excavation) is to occur, or the existing durable cover (e.g., existing buildings and hardscape such as concrete/asphalt) is removed, risk

reduction and/or risk management measures should be implemented to mitigate potential health risks associated with exposures to COCs.

The HHRA was approved by the Water Board in its letter to PG&E dated February 12, 2012.

2.5 Description of Remedy

In summary, the remedy to address COCs at the Station A NRG Area includes institutional and engineering controls that mitigate exposure of human receptors to COCs in the subsurface. Institutional controls include, among other documents, the LUC. Engineering controls, as described in this RMP, include the installation and maintenance of durable covers (i.e., asphalt/concrete pavement), which physically prevent exposure to, and off-site migration of, the underlying COCs. The remedy does not require any specific treatment or removal of COCs. The following components comprise the remedy.

Institutional controls include the following:

- An LUC that is binding upon all owners of the Station A NRG Area. Written notice of the terms of the LUC is required prior to a sale, lease, or rental of the Station A NRG Area. The LUC restricts the Station A NRG Area from being used for temporary/permanent residence, motels/hotels, health care facilities, schools for persons under 21 years of age, daycare center for children/senior citizens, park, playground, or other recreational use. Additionally, groundwater at the site cannot be used for domestic purposes (e.g., drinking, cooking, or washing);
- This RMP, which requires compliance with certain procedures if the durable cover is breached; and
- O&M Plans for the durable cover or any other engineering control requiring maintenance.

Note that this RMP also describes the procedures for modifying/removing the restrictions to current property use, as summarized in Section 3.6 and Appendix B.

Engineering controls, as described in this RMP, include the following:

- Existing soil shall not be reused on the exposed ground surface of the Station A NRG Area; existing soil shall only be reused under a durable cover. Refer to Section 6.5.2 and Figure 4 for soil reuse procedures.
- Soil imported to the Station A NRG Area shall be placed on a demarcation layer. The imported soil (i.e., clean soil) must meet the prevailing standards used to evaluate exposures that are consistent with the current/ planned land use (i.e., less than or equal to commercial standards for commercial site use, and less than or equal to residential standards for unrestricted site use). The demarcation layer shall be a brightly colored layer acting as a visual and physical deterrent to further excavation and be an indicator that contaminated/existing soil may be present below the layer, and that special protocols must be followed for excavation below the layer. The demarcation layer is not intended to be impermeable to water. Refer to Section 6.5.2 for soil import criteria.
- Soil encountered during excavations that is determined to be a “Restricted Material” (i.e., Restricted from on-site reuse due to the presence of obvious contamination) shall be disposed off-site and shall not be reused on site unless a written variance is obtained by the Water Board

(see Section 3.6). A more comprehensive discussion of what is considered Restricted Material, and how it is managed, is provided in Section 6.5.2.2 and Figure 4.

- Dust and groundwater management measures shall be implemented to minimize potential exposures to COCs for workers, site users, and the public.
- Installation of durable covers over existing soil to provide a physical barrier against exposure to existing soil. Acceptable durable covers include:
  - New or existing building foundations.
  - New or existing streets and sidewalks.
  - New or existing hardscapes that are engineered so that they will not be unduly compromised as part of their intended use.
  - New landscaping or soft-scape placed upon a minimum of 4 feet of clean import soil over a demarcation layer. The clean soil layer must accommodate the depth of root bearing zones and/or irrigation systems to assure that general maintenance workers will not contact any of the existing soil below the demarcation layer.
  - Paving consisting of at least 4 inches of crushed aggregate overlain by at least a 2-inch-thick layer of asphaltic concrete.

Long-term monitoring, maintenance, and repair of the durable covers is required. The O&M procedures for the durable cover are provided in the O&M Plan (Appendix D).

Currently, the Station A NRG Area includes existing durable cover or hardscape of several types. The existing hardscape is considered acceptable as durable cover. After full implementation of the remedy, durable cover, including buildings (existing, historic structures rehabilitated for reuse, new construction), streets, sidewalks, asphalt or concrete pavement, hardscape, 4-foot minimum layer of clean fill underlain by a demarcation layer to identify existing soil, and other approved covers will exist throughout the Station A NRG Area.

3. RISK MANAGEMENT PLAN

This RMP defines and governs "ground disturbing" activities as described in Section 3.2, that occur at the Station A NRG Area. The area that is subject to this RMP is depicted on Figure 2. Although this RMP sets forth the requirements to appropriately manage the potential risks in soil and groundwater prior to, during, and following construction activities, the RMP is not intended to catalog all other legal requirements that may apply to the property or to activities conducted under the RMP such as worker health and safety as governed by Cal-OSHA, the Building Code, or other applicable laws, regulations or agency requirements.

3.1 Regulatory Oversight Responsibilities for RMP Implementation

The Water Board is the designated Administering Agency for this RMP. The Water Board, as the designated Administering Agency, may consult with other supporting agencies in its efforts to enforce this RMP.

Soil handling and disposal activities may be subject to federal law (e.g., those administered by the United States Environmental Protection Agency), and the substantive requirements of state and local laws and regulations, including those promulgated by SFDPH (see above), California Environmental Protection Agency (Cal-EPA), Water Board, Bay Area Air Quality Management District (BAAQMD), and the California Occupational Safety and Health Administration (Cal-OSHA). It is the responsibility of the Owner, the Project Proponent, the Developer, or the Contractor performing work that may involve contact with COCs at the Station A NRG Area to ensure worker safety and to comply with currently applicable laws and regulations.

This RMP specifies a remedy that will be implemented throughout the Station A NRG Area, for activities ranging from single excavations to excavation and grading activities conducted over a large area during various phases of construction and development. Implementation of the remedy, including compliance with this RMP, will mitigate potential risks to human health and the environment. As discussed, the risk management measures outlined in this RMP generally fulfill the requirements of a "Site Mitigation Report" as referenced in Article 22A and the dust control measures referred to in Article 22B. However, SFDPH may elect to review project-specific information for compliance with Article 22A.

As the Administering Agency, the Water Board shall require that the substantive provisions of the State and local laws and regulations are followed, in coordination with the supporting agencies. These laws and regulations address issues such as dust generation, hazardous waste management, storm water management, and health and safety. Federal laws will be directly implemented by the applicable federal agency. The Water Board's role includes, but is not limited to:

- Review, oversight, and approval of notification packages and completion reports for any ground disturbing projects as described in Section 4.3.
- Review and approval of modifications to this RMP.
- Inspection to verify compliance with RMP procedures and protocols.
- Review and approval of activities involving unknown conditions that fall outside the prescribed remedy for the Station A NRG Area.

Additionally, the Owner, or their Representative, must obtain all necessary permits, copies of which must be submitted to the Water Board as part of Closure Documentation (see Section 4.3). The categories of activities subject to this RMP are described further in Section 4. The required regulatory approvals for each type of activity are described below.

3.2 Ground Disturbing Activities

"Ground disturbing activities" are activities that breach the durable cover, such as: (1) excavation of existing soil; (2) grading or related construction of roads, utilities, facilities, structures, and appurtenances that disturbs existing soil; (3) demolition or removal of "hardscape" (for example, concrete roadways, parking lots, foundations, asphalt, and sidewalks) that exposes existing soil; and (4) any activity that moves existing soil to the surface from below the surface of the land. Notification requirements for ground disturbing activities are described in Section 4.

Examples of anticipated ground disturbing activities include, but are not limited to:

- Excavation of trenches, potholes or other movement of existing soil in support of the installation of new below grade utilities, foundations, or other foundational structures (e.g., sewer lines, water lines, storm water pump station wet wells, pile caps and/or grade beams, fences, etc.).
- Demolition of existing below-grade, at-grade or above-grade structures, to the extent that existing soil is exposed. Following completion of demolition activities exposed existing soil must be covered with a durable cover.
- Grading for the purpose of raising and/or lowering site elevation, creating building pads, or to support road installation, and associated excavating, loading, hauling, stockpiling and/or compacting soil. Following completion of these activities existing soils must be covered with a durable cover.
- Pre-drilling for pile installation, including drilling pilot holes through fill material prior to the installation of foundation piles.
- Extraction of groundwater and installation of new groundwater extraction, injection, or monitoring wells. Temporary dewatering activities may be conducted including temporary pumping of groundwater to dewater below-grade excavations in support of both infrastructure installation and/or foundation installation, which may include both pumping of groundwater from an open excavation and/or pumping groundwater via perimeter temporary dewatering wells (typically used for building foundation installation). Additional information on the management of dewatering effluent is provided in Section 6.10.
- Alteration, disturbance, or removal of the durable cover or project specific components of a remedy following completion and regulatory agency approval.

Following completion of any ground disturbing activities, all existing soil that has been moved from below the durable cover must either be hauled off-site in compliance with Section 6.5 or placed underneath the durable cover, when re-installed. Existing soil that is excavated may be re-used within the Station A NRG Area and the other portions of the 21 acres presently owned by NRG as long as it is placed beneath a durable cover. All surplus excavated soil must be handled in accordance with the Soil Management Protocols in Section 6.5 and durable cover must be reinstalled as described in Section 6.2.

The Owner will be required to document ongoing or completed activities, a summary of which shall be included in the Annual Inspection and O&M Checklist discussed in Section 4.4 and/or will be reported to the Water Board.

The risk management measures established in this RMP are appropriate and sufficient to ensure that ground-disturbing activities performed anywhere within the Station A NRG Area do not pose a significant risk to human health and the environment.

3.3 Prohibited Activities

As discussed in Section 1.1, the LUC, as of the date of this document, restricts the Station A NRG Area from being used for temporary/permanent residence, motels/hotels, health care facility, schools for persons under 21 years of age, daycare center for children/senior citizens, park, playground, or other recreational use. Additionally, groundwater at the site cannot be used for domestic purposes (e.g., drinking, cooking, or washing). It is also prohibited to grow vegetables, fruit, or any edible items in existing soil for human consumption throughout the Station A NRG Area. Plants for human consumption may be grown in the Station A NRG Area if they are planted in raised beds (above the approved cover) containing clean imported soil. Fruit trees (including nut-bearing trees) may also be planted provided that they are grown in containers with a bottom that prevents the roots from penetrating into the existing soil. The regulatory agencies have the authority to perform inspections without prior notice to verify that no such activities are being performed.

Additional remediation and/or mitigation measures may be required in the event that activities outside those prohibited are considered. These requirements are discussed in more detail in Section 3.6.

3.4 Compliance with Existing Requirements

Compliance with this RMP is required in addition to all other applicable federal laws and regulations, and the substantive requirements of state and City permitting, environmental regulations and procedures for any construction or maintenance activity. The following is a list of state and local agencies that have environmental, health and safety requirements for certain construction and maintenance activities, in addition to those described in this RMP. This list is a summary, and is not intended to be complete:

- **Bay Area Air Quality Management District (BAAQMD)** – regulates air emissions and/or dust control.
- **City and County of San Francisco Public Utilities Commission (SFPUC)** – Regulates wastewater discharge to the City's combined storm and sanitary sewer system, including permitting discharges from dewatering.
- **California Occupational Safety and Health Administration (Cal-OSHA)** – regulates worker health and safety.
- **SFDPH** - SFDPH is a supporting agency that may be delegated by the Water Board to enforce the RMP. SFDPH also issues soil boring and monitoring well permits.

3.5 Station A NRG Area Access and Security

The Water Board is responsible for ensuring the Owner, and all other relevant parties, are in compliance with this RMP and may elect to visit the Station A NRG Area, as needed and take enforcement actions to correct non-compliance, as necessary. Additionally, visitors may access the Station A NRG Area, along with site tenants and contractors. Vehicle and personnel access to areas where existing soil is exposed or will be disturbed shall be controlled. Caution tape, cones, fencing, steel plates, or other measures shall be used to clearly designate the active work area and to prevent

access by the public. Stockpiles of excavated soil shall be protected as described in Section 6.5.1 and secured by temporary fences or other means to prevent unauthorized access.
The Station A NRG Area is located within the former Potrero Power Plant, which is bounded by secure perimeter fencing preventing unauthorized access. The perimeter fencing shall not be altered or removed without the approval of the Owner. Should removal or modification of perimeter fencing be necessary to facilitate construction, Contractor shall submit to the Owner for approval a temporary security fencing plan and fencing replacement plan. The plan shall include details for replacement of perimeter fencing and shall conform to local building codes.

3.6 Modifications and Variances to the Risk Management Plan

This RMP is based on conditions at the Station A NRG Area at the time this RMP was first approved by the Water Board in Fall 2014. It may be necessary or appropriate to modify this RMP from time to time for any of several reasons, including:

- new legal or regulatory requirements;
- change in understanding of environmental conditions (e.g., newly identified COCs or the discovery of higher concentrations of known COCs);
- intrusive activity that is not addressed by this RMP; or
- redevelopment of the Station A NRG Area.

Additionally, modification or termination of specific conditions or controls stated in this RMP may be warranted. Modification to the RMP will consist of a permanent change to the entire document, which would affect the entire Station A NRG Area and result in a revised RMP (Revised RMP).

The Owner and/or the Water Board staff may propose modifications to this RMP, and/or supporting agencies may, as provided under Health and Safety Code Chapter 6.65, also propose modifications to this RMP. The Water Board staff, as the lead (i.e., Administrating) agency and in consultation with supporting agencies, will review such proposals for modification to the RMP, request any additional background information needed, and issue a decision regarding the proposal within approximately 60 (calendar) days of receiving the proposal and any additional requested information. Both the Owner and Water Board staff must agree to any proposed modification to this RMP before it is approved.

Once approved, a Revised RMP shall be distributed to all relevant parties, including the Owner and lessees, and filed in the public information repositories (Section 3.7). Changes in notification personnel are not considered a modification to the RMP and do not require regulatory agency approval, but will be documented in the public information repositories.

3.6.1 Modifications Due to a Change in Land Use or Redevelopment

A change in land use from approved land uses (commercial/industrial) to currently restricted land uses (e.g., temporary/permanent residence, health/day care, schools, recreational, etc.) requires written approval by Water Board staff. Such approval may also require modifications to any existing LUC and this RMP. Additionally, redevelopment within the Station A NRG Area to currently approved land uses may also trigger similar requirements. The Owner, or their Representative, shall be responsible for obtaining the approvals and required modifications, if any. The specific procedures for obtaining such approval are included in Appendix A.

If a proposed change in land use conflicts with the requirements of other LUCs, additional approvals may also be required (i.e., variance to LUC).

3.6.2 Project-Specific RMP Variances

Individual variances from specific conditions of this RMP may be granted on a project-specific basis with notification to, and approval by, the Water Board staff (termed RMP Variance). The Water Board will respond to a RMP Variance request within 30 days of receipt of notification. If the Variance request is time-critical, this should be explained in the request and Water Board staff will attempt to respond in the shortest time possible. Approval of each variance will be granted on a single time basis and affect only the area or activity covered by the request for variance. An example of when an RMP Variance may be requested includes the approval of a reduced thickness of clean fill required for the durable cover in a landscaped area or of the use of a specific import material that may not meet the soil import criteria described in Section 6.5.2.

The issuance of an individual project-specific variance may not require revision of the RMP. An RMP Variance approval will be returned to the project proponent and also added to the information repositories outlined in Section 3.7. The notification requirements for an RMP Variance are presented in Section 4.2.

3.7 Public Information Repositories

Records must be kept to document the off-site removal and disposal of soil during construction activities and as part of maintenance activities. Records demonstrating compliance with BAAQMD requirements for dust control for disturbance of soils containing NOA must be maintained for seven years. Additionally, any previously unidentified environmental issues encountered during construction activities, modifications to this RMP or variance shall be documented, and copies must be kept of any exposure assessment performed and the supporting analyses to support similar future work activities. *Documents must be submitted to the Water Board and uploaded to the Water Board's GeoTracker website (http://geotracker.waterboards.ca.gov).*

A copy of this RMP must be present at the site during construction activities. Additionally, a copy must be kept in the Owner's office as a reference for future maintenance activities.

Key technical documents will also be available in the File Room at the Water Board's office located at 1515 Clay Street in Oakland, California and on the GeoTracker website. Interested parties may make appointments with the Water Board to review and copy any site documents in Water Board files or view them online.

In addition, the Owner and/or Project Proponents and Contractors will submit copies of all final permit, construction drawings, and construction specifications to the Water Board for information and consideration in enforcing compliance with the RMP. Additionally, PG&E shall be notified when such submittals are made to the Water Board.

4. NOTIFICATION AND REPORTING REQUIREMENTS

Notification to the Water Board by the Owner, and subsequent approval by Water Board staff, must be made or obtained, as provided in this subsection, including those associated with construction projects and/or activities requiring approval by a permitting agency, including the City and County of San Francisco (e.g., construction or grading permit).

In the event that emergency repairs to subsurface features (e.g., utilities) are required and timely notification is not possible, the Water Board shall be notified within 48 hours of the activity. Minor ground disturbing activities, such as maintenance of the durable cover or landscaping activities that breach the durable cover but do not access the underlying existing soil, shall be documented by the Owner in an Annual Report submitted to the Water Board (see Section 4.4 and Appendix D). The documentation shall show compliance with the RMP and include photographs of the work performed and the final condition of the area.

4.1 Notification for RMP Compliant Submittals

The Owner must notify the Water Board in writing at least 45 days prior to performing any ground disturbing activity that penetrates the durable cover that will result in the disturbance of 50 cubic yards or greater in total volume of soil or an area of 1250 square feet (sf), except in the case of emergency as provided above. Notifications are the responsibility of Owner. The notice must include the following:

- Description of current site conditions within the proposed limits of work.
- A description of the proposed ground disturbing activity, together with appropriate exhibits to illustrate the location and/or issue that triggers the notification.
- Engineering design drawings stamped by a California licensed Professional Engineer describing construction of the applicable components of the remedy, including re-installation of the durable cover in accordance with this RMP.
- A project schedule, prepared to track activities and installation or restoration of the remedy (e.g., reinstallation of the durable cover) following completion of the ground disturbing activity.

For projects that involve ground disturbing activity that penetrate the durable cover but that are less than 50 cubic yards in total volume of soil or an area of 1250 sf of durable cover disturbed, the Owner shall submit a "Notice of Intent to Conduct Ground Disturbing Activity" no less than 3 days prior to initiating the work. A notice template for ground disturbing activities is included in Appendix E.

Once the notification package is submitted to the Water Board and the applicable review or notification period (e.g., 45 days or 3 days as described above) has passed without Water Board comment, the project proponent may proceed with the ground disturbing activity without a formal approval letter from the Water Board.

4.2 Notification of RMP Variance Submittals

If a one-time project-specific variance from the RMP is requested, in addition to the items discussed above in Section 4.1, the notice must also include:

- A precise description of the request and reason for variance from the RMP.

- The analysis and reasoning of how the variance is protective of human health and environment, stamped by a California licensed Professional Engineer.

RMP Variance requests must be submitted at least 60 days prior to performing the activity and the Owner may not proceed with the project until the Water Board has approved the variance. The Water Board will attempt to respond to a variance request within 30 days of receipt of notification.

4.3 Completion Reports

Following completion of the ground disturbing activity, or modifications to the approved remedy, the Owner shall prepare a Completion Report for submittal to the Water Board. One of the purposes of the completion report is to document the activity and, if necessary, any corrective actions implemented, in the event the ground disturbing activity had any unforeseen impact. The Completion Report shall include the following components, as appropriate:

- Description of activities performed.
- Boring logs/well completion diagrams.
- Laboratory analytical reports.
- Waste disposal manifests.
- As-built drawings of the components of the remedy, including the durable cover or other engineered control, stamped by a California licensed Professional Engineer.
- All permits and inspection reports of the installed remedy components, including the durable cover or other engineered control stating that it was properly installed and inspected by a California Professional Engineer licensed in the technical area representative of the work.
- A long-term maintenance and monitoring plan for any permanent remedy components not covered by the O&M Plan for the durable cover presented in Appendix D.
- Other appropriate documentation or components as specified as a condition of undertaking the subject activity and/or required by the Water Board and/or regulatory agencies.

The Owner shall submit completion reports to the Water Board, and any other applicable third parties and/or regulatory agencies, within 45 days of completing the ground disturbing activities or installation of the remedy.

The Water Board will review all completion reports to confirm that the actions taken are consistent with the RMP procedures and protocols. Within approximately 45 calendar days of receiving the completion report, the Water Board will notify the Owner of any discrepancies or deficiencies in the completion report regarding compliance with this RMP. The Owner and regulators will work collaboratively to resolve such issues.

Upon concluding that the actions taken are consistent with the RMP, the Water Board will issue an approval letter for the completion report.

4.4 Annual Inspection and Reporting

The Owner is required to conduct annual inspections and complete an Annual Report and O&M Checklist (Appendix D) and submit the Annual Report and O&M Checklist to the Water Board by March 31 of the following year. The report prepared by the Owner will include the results of the annual inspection and self-certification of compliance with the LUC and RMP.

Should the Owner discover any actions or conditions inconsistent with the RMP at any time, including during the annual site inspection, the Owner will prepare a written explanation indicating the specific inconsistencies and what efforts or measures the Owner has taken or will take to correct those inconsistencies. The Owner shall provide the written explanation to the Water Board within 15 working days of discovery.

The Owner is ultimately responsible for the annual inspection and reporting requirements, and incident reporting that is outside of the annual inspection process. In the event that there are multiple Owners of the Station A NRG Area, all of the Owners shall cooperate and work together to provide the Water Board with a single submittal that meets the annual inspection and reporting requirements, but each Owner remains responsible for compliance with all aspects of the RMP for their respective portions of the Station A NRG Area. The Owner shall work with the Project Proponents, building owner/operators, and/or regulatory agencies to correct any problem(s) discovered and cooperate with the agencies during the performance of their inspection and enforcement responsibilities.

4.5 SFDPH Notification

As the Administrating Agency for the Potrero Power Plant site, including the Station A NRG Area, the Water Board will ensure that notification packages and completion reports are routed to the SFDPH for information purposes and consideration. In addition, the Owner responsible for conducting the work will provide to the SFDPH a copy of any notifications pertaining to the discovery of unknown conditions (see Section 6.9).

5. RISK MANAGEMENT MEASURES PRIOR TO CONSTRUCTION

5.1 Maintain Existing Protections

Existing protections include access control measures (e.g., fencing, locks on building doors); signage (e.g., no trespassing, hazardous materials notification); and existing durable covers (e.g., streets and sidewalks, existing buildings, hardscaped or paved areas). Maintenance of these protections is the responsibility of the Owner.

5.2 Control Access

The potential for trespassers or visitors to gain access to the Station A NRG Area and come into direct contact with potentially contaminated soil will be controlled through the implementation of the following access and perimeter security measures:

- Existing access control measures will be maintained, especially in those areas with exposed existing soil, while still allowing access to specific portions as warranted.
- Security fencing will be placed as needed to prevent pedestrian/vehicular access to unpaved areas. Gates will be closed and locked during non-business hours. Fencing will consist of a 6-foot chain link or equivalent fence.
- Access to any exposed existing soil will be restricted with fencing and warning signs at approximately 200-foot intervals, where appropriate. Areas of unpaved soil will be accessible to Owner and Owner-authorized personnel.
- Warning signs should read as follows with 2-inch lettering height in black capital letters on a yellow background:

NO TRESPASSING
PRIVATE PROPERTY
NO GROUND DISTURBANCE
ALLOWED WITHOUT OWNER APPROVAL
CONTACT: (925) 324-3512

"WARNING: This facility may contain a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm."

Compliance with and maintenance of the specific access control measures is the responsibility of the Owner.

5.3 Notification & Reporting

Prior to the implementation of any ground disturbing activities, the Owner must comply with the notification requirements presented in Section 4.

The Owner shall provide a copy of the RMP to lessees, permittees, tenants, contractors, future transferees or any other party with the legal right to perform subsurface work on the Station A NRG Area. However, the Owner remains responsible for compliance with all aspects of this RMP.

The Owner will report annually to the Water Board on Station A NRG Area conditions, ground disturbing activities, development plans, and schedules through the Annual Reporting process described in Section 4.4.

5.4 Existing Cover Disturbance

Any maintenance or repair activities that disturb the existing cover must comply with the Existing or Durable Cover Disturbance Requirements presented in Section 6.2.

6. RISK MANAGEMENT MEASURES DURING CONSTRUCTION

6.1 Access Control During Construction

Access to the Station A NRG Area during construction and maintenance activities will be limited to authorized personnel. The potential for trespassers or visitors to gain access to construction areas and come into direct contact with existing soil will be controlled through the implementation of the following access and perimeter security measures:

- Except in streets, security fencing will be placed around any portion of the Station A NRG Area that is under construction or where existing or other durable cover has been disturbed to prevent pedestrian/vehicular entry except at controlled (gated) points. Gates will be closed and locked during non-construction hours. Fencing will consist of a 6-foot chain link or equivalent fence unless particular safety considerations warrant the use of a higher fence. Use of fences during small routine maintenance activities will be determined by the Owner on a project by project basis.
- In areas of high traffic, use of a combination of K-rails or similar barriers and fences with locked gates may be appropriate.
- Post "No Trespassing" signs every 200 feet.
- Post signs warning that contamination within the fenced areas may be harmful to health.

Implementation of appropriate site-specific measures as outlined above will reduce the potential for trespassers or visitors to gain access to construction areas and to come into direct contact with soil or groundwater. Compliance with the specific access control measures is the responsibility of the Owner.

6.2 Existing or Durable Cover Disturbance

The existing buildings and asphalt pavement constitute a durable cover that provides a barrier to potential exposure to contaminants at the Station A NRG Area that may impact human health. During intrusive activities associated with future construction/ maintenance activities, the durable cover shall be replaced by the Owner or Contractor as soon as practicable after the work has been completed. Following completion of any maintenance or repair work that disturbs any durable cover, the integrity of the previously existing durable cover shall be re-established in accordance with the protocols described in Section 2.5 and the O&M Plan. The O&M Plan describes procedures for the inspection, maintenance and repair of durable and soil covers.

6.3 Notification and Reporting

The project proponent shall notify the Water Board prior to conducting ground disturbing activities in accordance with Section 4.

When a project is complete, project proponents must document that the entire disturbed area is covered with one of the approved durable covers. Documentation is to include photographs of the work, measured cover thickness and/or elevation survey, and a statement signed by the person(s) performing the maintenance activities that the work was completed as per the requirements of this RMP. This documentation will be attached to the RMP annual inspection form.

The Owner will submit a Completion Report documenting that an acceptable durable cover has been placed over any disturbed area as specified by the RMP to the entities previously notified in accordance with the protocols described in this RMP. The Water Board has the authority to inspect to verify that these conditions are being met.

6.4 Environmental Health & Safety

While the Owner is responsible for the implementation of the RMP, all Contractors performing work at the Station A NRG Area are responsible for the health and safety of their employees stationed there. As such, preparation of a Health and Safety Plan (HASP), as per Cal-OSHA Standard 1910.120, addressing hazardous waste operations and emergency response procedures associated with construction and maintenance activities is the responsibility of the contractor responsible for implementing such activities. All applicable federal, state, and local regulations and codes relating to health and safety shall be adhered to, including all sections of Cal-OSHA regulations contained in CCR Title 8 as they apply to the site activities.

Applicable requirements may include, but are not limited to, the following:

- Injury and Illness Prevention Program (8 CCR 1509 and 8 CCR 3203);
- Hazardous Waste Operations and Emergency Response (8 CCR 5192);
- Hazard Communication (8 CCR 5194);
- Personal Protective Equipment (8 CCR Article 10);
- Respiratory Protective Equipment (8 CCR 5144);
- Control of Noise Exposure (8 CCR 5095-5100);
- Excavations (8 CCR 1503 and 8 CCR 1539-1547);
- Fire Prevention and Suppression Procedures (8 CCR 4848);
- Portable Fire Extinguishers (8 CCR 6151);
- Cleaning, Repairing, Servicing, and Adjusting Prime Movers, Machinery, and Equipment Lockout/Tagout (8 CCR 3314); and
- Medical Services and First Aid (8 CCR 3400).

Guidelines provided in this RMP apply only to the classes of contaminants discussed in Section 2.4 and do NOT address health and safety issues related to any other hazards or activities at the Station A NRG Area (including, but not limited to, activities related to trenching, shoring and weather-related hazards) These guidelines represent minimum health and safety measures related to site contaminants. Additional measures may be implemented at the discretion of the Owner and/or Contractor, based on the specific construction/maintenance tasks to be performed. Outlined below are the general elements of a typical HASP, with some of the more pertinent sections described in more detail.

6.4.1 Air Monitoring for Contaminants in Soil Vapor

Air monitoring for contaminants in soil vapor may be required when conducting excavation activities. If required, air monitoring shall be conducted both within the work zone, to protect site workers, and outside the work zone (e.g., the perimeter of the property), to protect site users, using the appropriate instrumentation, as designated in the task specific HASP. Typical air monitoring equipment includes:

- Photoionization Detector (PID)
- Flame Ionization Detector (FID)

- Benzene-Specific PID
- Combustible Gas Meter (CGM)
- Oxygen Meter

The type and frequency of air monitoring for each work task is developed by the Owner or Contractor preparing the HASP and clearly presented in the HASP. Air monitoring instruments shall be calibrated and maintained according to manufacturer's specifications.

Guidelines for the dust monitoring are presented in Section 6.6.2 and Appendix F.

6.4.2 Personal Protective Equipment

Workers who will, or have the potential to, be in contact with soil and/or groundwater in the Station A NRG Area shall, at a minimum, use the following PPE to minimize potential exposures:

- work boots;
- gloves (washable or disposable);
- long-sleeved shirts;
- hard hat; and
- safety glasses.

The PPE required may be upgraded in the event that site conditions change. Potential events that may require an upgrade of PPE may include but not be limited to:

- identification of additional contaminants or an increase in COC concentrations in soil and/or groundwater during any future sampling event;
- exposure monitoring indicating the need to upgrade PPE; and
- work-site temperature or individual medical conditions limiting the effectiveness of PPE.

6.4.3 Decontamination Procedures

Contractors engaged in soil-disturbing activities shall provide an area for personnel decontamination adjacent to the work area. This area includes boot washing and hand washing facilities, toilet facilities, and receptacles for used PPE. Decontamination procedures for on-site workers wearing PPE may include, but not be limited to:

- wash boots and gloves (if washable);
- remove protective gloves and place in plastic bags for disposal (if disposable); and
- wash hands and face with soap and water before eating, drinking, using tobacco, or leaving the work area.

Equipment contacting existing Station A NRG Area soil/historical fill will require decontamination prior to leaving the active work area due to the possible presence of NOA and other potential COCs that might be contacted during construction work. Decontamination requirements will vary depending on the type of equipment and nature and condition of subsurface material encountered. For dry soils, dry removal of dirt from tires and bucket or blade at a minimum (see Section 6.6 for a more comprehensive discussion on soil/dust

management measures). For equipment encountering wet soils or groundwater, cleaning with a steam cleaner or pressure washer shall be performed on the portions of the equipment in contact with the wet soil or groundwater. Equipment decontamination shall be performed in a contained area with the means to contain and collect decontamination rinsate. Decontamination water, if generated, shall be containerized, sampled, and properly recycled/disposed.

6.4.4 Spill Response Procedures

In the event of a release of hazardous substances or waste materials that may adversely impact human health or the environment during maintenance or construction activities, such as a fuel release associated with construction equipment, the following spill response procedures shall be implemented:

- On-site personnel not directly involved in spill response procedures shall be removed from the affected area until the site safety officer determines that the area is safe for their return.
- Initiate containment/cleanup per project spill response plan.
- Immediately notify the Owner, who will subsequently notify the appropriate regulatory agency(s).

6.4.5 Emergency Contacts

CONTACT	TELEPHONE NO.
Police, Fire, Ambulance (Land Line)	911
Police, Fire, Ambulance (Mobile phone)	911
Property Owner Emergency Contact, Tom Bertolini (Land Line)	925-427-3815
Mark Johnson, Water Board	510-622-2493
Stephanie Cushing, SFDPH	415-252-3926

6.5 Soil Management Protocols

To the extent possible, Station A NRG Area soil excavated during construction or maintenance is to be reused so that off-site removal and disposal of soil will not be necessary. For purposes of this RMP, it is assumed that the existing soil may contain general construction waste or, potentially, wastes associated with historical sugar refining, barrel making, and power generating operations, including PAHs, VOCs, PCBs, metals, cyanide, and asbestos. During any excavation, dust control measures in accordance with Cal-OSHA and BAAQMD requirements shall be used when handling existing soil. Normal dust control measures are also required when handling any debris present in the fill, as soil will likely be associated with this material. If soil containing NOA is to be disposed of off-site, and the concentration is greater than 1%, the soil must be disposed of at a facility licensed to accept asbestos.

The waste soil doesn't, however, have to be classified as a hazardous waste unless other contributing factors (i.e., the presence of other contaminants at hazardous waste levels) require such classification.

6.5.1 Soil Stockpile Management Protocols

Stockpiling of excavated and/or imported soils may be necessary on a temporary basis to support the logistical phasing of construction activities. Whenever possible, soil stockpiles will be located in as close proximity to the work area or the ultimate disposition area as practicable. To limit public access to stockpiled soil, stockpiled soil areas must be fenced or otherwise protected.

Stockpiles will be managed in compliance with storm water runoff and dust control requirements. In general, stockpiles must be covered with a tarp, wetted, sloped, or controlled via appropriate means and methods. Best management practices (BMPs) for erosion and sediment control will be implemented during construction activities. BMPs may include the installation of silt fencing/straw bale filter barriers on the down gradient toe of the stockpile slope and dust control. Drainage from the stockpiles should be diverted such that there is no direct connection to storm drains or the shoreline.

Stockpiles will be under control of the Owner at all times and inspected at least weekly to ensure dust control and runoff control measures are functioning adequately and as specified in the appropriate plans. Storm water management practices should be consistent with all applicable rules and regulations, as described in Section 6.7.

6.5.2 Soil Import and Reuse Criterion

All soil imported to the Station A NRG Area shall be a clean imported material whose composition is sand, topsoil, fill, or other materials that meet the prevailing standards used to evaluate exposures that are consistent with the current/ planned land use (i.e., less than or equal to commercial standards for commercial site use, and less than or equal to residential standards for unrestricted site use). Guidance for these standards could include the Department of Toxic Substances Control's (DTSCs) October 2001 Clean Imported Fill Material Information Advisory or other appropriate regulatory guidance. Soil quality parameters for acceptable imported soil are provided in the Water Board Environmental Screening Levels (ESLs) (Water Board, 2013), the California Human Health Screening Levels (CHHSLs; California Environmental Protection Agency, 2005), or background concentrations for metals in soil. If an ESL, CHHSL or background concentration is not available, the EPA Regional Screening Levels (RSLs) for Residential Land Use will be used (EPA, 2013). Note that the guidance for these standards is updated and revised by regulatory agencies periodically, and the most current guidance shall be used.

Import soil with visual or olfactory evidence of petroleum hydrocarbons is prohibited. When the chemical properties of imported fill are known (e.g., engineered fill), sampling may not be required.

6.5.2.1 Import of Clean Soil for Landscape Areas

The following procedures shall be followed when performing work within landscape areas:

- Soil used for landscape areas must consist of clean imported material whose composition is sand, topsoil, fill, or other materials that meet the prevailing standards for unrestricted use, as described above in Section 6.5.2.
- The minimum depth of the clean imported material that will be required for the landscaped areas will be 4.0 feet. Irrigation systems, (defined as that portion of the system between the valve and the sprinkler head) in the landscaped areas are to be placed within the clean imported-material. The layer of clean soil must accommodate the depth of root bearing zones and/or irrigation systems.
- Before any clean imported material is placed on top of the existing site soils or any relocated soil, a demarcation layer shall be placed between the existing soil and the import material. The demarcation layer shall be a brightly colored visual and physical deterrent to further excavation and be an indicator that contaminated/existing soil may be present below the layer, and that special protocols must be followed for excavation below the layer. The demarcation layer is not intended to be impermeable to water. The layer shall be of sufficient strength as to preclude being punctured with hand tools.

6.5.2.2 Reuse of Existing Soil

This section summarizes the soil reuse conditions for the Station A NRG Area. A decision matrix for determining when existing soil may be re-used is shown on Figure 4.

Existing Station A NRG Area soil that is to be reused on-site must be placed under durable cover and shall not remain exposed at the surface upon completion of construction activities.

Existing soil within the Station A NRG Area may be managed and reused within the 21-acre NRG portion of the Potrero Power Plant site (Figure 2) without need for sampling, provided that reuse is conducted in accordance with this RMP, would not be considered as Restricted Material, and/or it is not used in utility trenches without appropriate testing (see below). Figure 4 presents a flow chart showing the decision making process for evaluating the appropriateness for the on-site reuse of soil.

Soil exhibiting physical evidence of significant environmental impacts or contains visible serpentinite rock shall be considered as Restricted Material and segregated from other soil for disposal off-site. Restricted Material may include, but not necessarily be limited to, MGP waste (coal tar, lamp black, or Prussian Blue[2]), tank bottom sludge, oil saturated soil, sand blast grit, or contaminated construction debris rubble such as refractory brick, transite pipe, or lead based paint coated materials. Restricted material shall not be reused on-site. Restricted material shall be segregated without limiting the progress of excavation activities or work flow, if possible.

[2] "Prussian Blue" is an MGP remediation industry term for MGP purifier wastes that once exposed at the ground surface will often develop an iridescent blue color of that name. Lampblack and coal tar are hydrocarbon-based MGP waste products and will often appear as dark material mixed within the soil and can have a mothball-like odor.

Restricted Material shall not be used for backfill of utility trenches. In addition, no existing soil shall be placed within utility trenches unless it is determined, on the basis of chemical testing that the soil would not present a health risk to future construction workers that may be directly exposed to the soil as part of utility installation or maintenance. This shall be determined by (1) comparing the concentrations of COCs in the excavated soil to the Water Board's most current ESL's used to evaluate dermal exposures to construction workers (e.g., Water Board, 2013 Table-K3), and (2) checking for presence of visible serpentinite rock, which contains NOA.

In the event that a material cannot be determined to be a Restricted Material based on visual or olfactory evidence, the Owner may either dispose of the material offsite or conduct chemical testing and further evaluation to determine if it may be managed on-site. Existing site soil may be temporarily stockpiled with adequate protection until final placement under durable cover or off-site removal when required. Potential impacts from dust associated with the handling and movement of soil, soil compaction, soil stockpiling, etc., will be addressed through the implementation of appropriate dust management measures, as described below in Section 6.6.

6.6 Dust Management Measures

Construction and/or maintenance workers at the Station A NRG Area may need to access soil in areas where contaminants (i.e., arsenic and hydrocarbons), along with NOA, may be present in existing soil. Station A NRG Area users and the public may also be exposed to dust generated during maintenance and construction activities. The dust management measures provided herein are designed to minimize potential exposures to these contaminants and to asbestos in dust.

Because NOA associated with weathered serpentinite bedrock is present in existing soil, prior to beginning work, Contractor shall review the BAAQMD requirements for working in NOA-containing soils. In general, work disturbing less than 1.0 acre of soil requires specific work practices, as discussed in Section 6.6.1 (Dust Control), whereas work disturbing an area of 1.0 acre or more requires the preparation and approval of a BAAQMD Asbestos Dust Mitigation Plan prior to starting work.

Additionally, the San Francisco Health Code Article 22B requires dust control during construction (demolition, earth-moving activities), including implementation of certain dust control measures. In some circumstances, Article 22B requires monitoring to ensure that dust is not emanating from the construction site and reporting to SFDPH.

6.6.1 Dust Control

Engineering controls are the preferred method of controlling on-site and off-site exposures to dust generated through construction activities. Currently, the majority of the Station A NRG Area is covered with an existing cover (e.g., buildings and asphalt pavement), which minimizes dust generation during periods of time when no intrusive activities are occurring. The generation of dust during intrusive activities shall be minimized by the following acceptable industry practices and the methods offered by the California Air Resources Board (CARB) for control of NOA (17 CCR § 93105):

- Unpaved areas subject to vehicle traffic must be stabilized by adequate wetting, treatment with a chemical dust suppressant or by covering with material that contains less than 0.25% asbestos to prevent visible emissions from crossing the property line.
- Vehicles and equipment must travel no more than 10 miles per hour (mph) to prevent vehicles from generating visible dust that crosses the property line.
- Prior to any ground disturbance, sufficient water must be applied to the area to be disturbed to prevent visible dust from crossing the property line.
- Stockpiles of soil and disturbed areas not subject to vehicular traffic must be stabilized by being kept adequately wetted, treated with a chemical dust suppressant, or covered by a tarp or material that contains less than 0.25% asbestos when material is not being added to or removed from the pile.
- Equipment must be washed down or subjected to one or more of the following track-out prevention measures before being moved from the Station A NRG Area onto a paved public road:
  - A gravel pad designed using good engineering practices to clean the tires of exiting vehicles;
  - A tire shaker;
  - A wheel-wash system;
  - Pavement extending for not less than fifty (50) consecutive feet into the site from the intersection with the paved public road; or
  - Any other measure as effective as the measures listed above.

Activities must be conducted so that no track-out from any construction project is visible on any paved roadway open to the public. Visible track-out on a paved or public road must be cleaned within 24 hours using wet sweeping or a high efficiency particulate air (HEPA) filter-equipped vacuum device.

Equipment and operations must not cause the emission of any visible dust that crosses the property line.

Any load-out of soil or debris from the site must comply with the following procedures:

- Trucks are maintained such that no spillage can occur from holes or other openings in cargo compartments and loads should be adequately wetted and completely covered with tarps.

Temporary measures to control the emission of dust from disturbed surfaces after completion of intrusive construction activities may include the following:

- Establishment of a vegetative cover;
- Placement of at least three inches of non-asbestos-containing material;
- Paving; or
- Any other measures deemed sufficient to prevent wind speeds of 10 mph or greater from causing visible dust emissions.

6.6.2 Dust Monitoring

COCs that may be present in existing site soil include PAHs, VOCs, PCBs, metals (e.g., lead), cyanide, and asbestos. The need for an exposure assessment, as per Cal-OSHA requirements,

for activities that will disturb materials containing lead and asbestos should be evaluated on a project by project basis by the Owner in conjunction with each Contractor's designated health and safety personnel. The purpose of the assessment is to evaluate the potential for specific site activities (e.g., grading or trenching) to result in worker exposures to NOA. The assessment can be completed as an Initial Exposure Assessment (IEA) prior to the start of work or a Negative Exposure Assessment (NEA) that demonstrates that employee exposures will be below the 8-hour time-weighted average criteria. The NEA can be accomplished using either the results of monitoring of a similar job in the same area performed in the last 12 months, or the results of initial monitoring during the current job. As a result, dust monitoring may be implemented, along with the specific health and safety requirements of the Contractor, based on the scope of the maintenance or construction activities. If dust monitoring is implemented, the results should be used to evaluate the effectiveness of on-site dust control measures and determine the need for additional dust control procedures. Dust control procedures also shall be implemented, as needed, to address the potential for dust to migrate beyond the perimeter of the work area and the property boundaries. Guidelines for dust monitoring are provided in Appendix F.

6.7 Construction Storm Water Management

Storm water pollution controls shall be implemented to minimize the erosion and runoff of sediment in storm water. Storm water pollution controls at construction sites where the surface area of construction activities are greater than 1.0 acre in size, or for projects that disturb less than 1.0 acre but are part of a larger common plan of development that in total disturbs greater than 1.0 acre, are required under the General Permit for Discharges of Storm Water Associated with Construction Activity (currently 2009-0009-DWQ as Modified by 2010-0014-DWQ; General Permit). The Construction General Permit requires that a Storm Water Pollution Prevention Plan (SWPPP) be developed by Qualified SWPPP Developers (QSDs) and that implementation of the plan be performed by Qualified SWPPP Practitioners (QSPs) per Section VII of the 2009-0009-DWQ Permit.
(http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/stormwater/construction.shtml)

Storm water pollution controls shall be implemented by the Contractor(s) and will be based on BMPs. Specific practices that may be implemented to reduce the sediment load of storm water runoff from the Station A NRG Area include grading to prevent storm water from running off-site, installing storm water control devices (earth berms, silt fences, or other barriers) around the perimeter of unpaved portions of the Station A NRG Area until construction is completed, and protecting existing catch basins with silt fences or gravel bags. In addition, all contractors shall store fuel and chemicals in such a manner as to prevent accidental spills from impacting storm water (e.g., within secondary containment).

The need for specific numerical effluent limits (e.g., for pH and turbidity), depends on various factors; therefore, it is recommended that the Owner determine the need for such limits on a case-by-case basis.

6.8 Off-Site Soil Disposal

Excavation of existing soil may be required during construction of utility trenches, building foundations and other facilities. It is likely that excavated existing soil will be reused within the Station A NRG Area. As a result, off-site soil disposal should be limited. Any off-site soil disposal is subject to all applicable federal and state laws and regulations. All activities associated with waste disposal, such as

truck loading, truck traffic and decontamination of trucks leaving the site will be performed in accordance with the dust management measures provided in 6.6 and any other applicable Federal or State law or regulation.

The Owner, as the generator of the waste soil, is responsible for all testing, waste classification, selection of appropriate disposal facility, transportation, and all documentation related to off-site disposal of soil, debris, or other waste resulting from construction activities. Soil removed from the Station A NRG Area must be characterized and managed in accordance with Title 22 of the California Code of Regulations, Division 4.5, Chapter 11, if applicable, as well as the requirements of the disposal facility and any other applicable law. It is likely that analyses for total and soluble metals (e.g., lead, nickel, and/or chromium), asbestos/NOA, PAHs, PCBs, BTEX, and TPH will be required to characterize existing soil for off-site disposal.

To the extent applicable, labeling requirements for transportation of waste shall additionally be in accordance with Title 29 of the Code of Federal Regulations, Parts 172 and 173.

All existing soil to be disposed will be taken only to a certified and permitted California landfill or an equivalent out-of-state landfill, as appropriate and as determined by the waste profile.

6.9 Unanticipated Conditions Response Protocol

It is possible that unknown, historical subsurface features and structures may remain at the Station A NRG Area. If present, these structures or features may be encountered during construction activities. Unanticipated subsurface conditions may include, but are not be limited to, the following items:

- Underground storage tank(s);
- Concrete vault(s);
- Underground piping;
- Chemical impact that has resulted in visually contaminated soil or detectable odors.

This section establishes a protocol for the initial response to the discovery of an unknown condition, notification protocols, and a path forward such that construction activities can continue safely.

Whenever unanticipated conditions are encountered, Contractor shall stop work in that area, secure the work area, and evaluate the situation for health and safety hazards before any further action is taken. Contractor shall notify the Owner who will be responsible for notifying the appropriate agency, as necessary. Notification requirements are outlined in Section 6.9.3.

If visually contaminated soil is excavated, it shall be segregated from other soil. The segregation of visually contaminated soil shall be conducted so as not to limit the progress of excavation activities or work flow at the site, if possible. As discussed in Section 6.5.2.2, soil exhibiting visual/physical evidence of significant environmental impacts, or containing visible serpentinite rock shall be considered as “Restricted Material” and segregated from other site soil for disposal off-site. Restricted material shall not be reused on-site, not be reused on the property and shall be disposed of off-site.

6.9.1 Field Screening

Upon initial discovery, the project proponent or on-site representative will initiate field screening and physical observation of the visually impacted or odiferous soil or other

unanticipated condition. Measures may include conducting field monitoring by taking organic vapor readings using portable field screening devices such as an PID or an FID.

6.9.2 Health and Safety

The Owner shall undertake measures to ensure worker safety in areas where unknown conditions are encountered. The Contractor's Site Safety and Health Officer (SSHO) will be responsible for evaluating any change in conditions. The SSHO may stop work to determine if the level of security and personnel protective equipment is adequate. If warranted, the area in which the unknown condition was encountered will be secured with barricades or fencing, as appropriate, and signage will be installed to prevent unauthorized access to the area.

6.9.3 Notification

Upon discovery of a non-emergency unanticipated subsurface condition as described in Section 6.9, the Owner shall notify the Water Board, other pertinent agencies, and PG&E as soon as practicable, but in no case more than 5 days after discovery. If any unanticipated subsurface condition is discovered work must stop and the Owner must consult with an environmental professional experienced in hazardous substance handling and remediation.

For UST encounters, the Owner must notify the SFDPH contact (Section 6.4.5) and obtain permits from the San Francisco Fire Department (SFFD) and SFDPH Hazardous Materials Unified Program Agency (HMUPA) before proceeding. If an UST is broken open, then the contractor should immediately take action to stop or prevent a release by removing fluid, and then notify SFDPH, SFFD, and HMUPA.

6.10 Temporary Dewatering Activities

Preparations shall be made to remove, store, characterize, and properly dispose of standing water from excavations during construction and maintenance trenching activities. Appropriate precautions may include staging a temporary storage tank. Contained water or groundwater can be disposed off-site at an appropriate facility or through other arrangements, such as a prearranged disposal agreement (e.g., with the SFPUC Publically Owned Treatment Works [POTW]). Prior to disposal, the water should be tested in accordance with the requirements of the receiving facility. In the event that the dewatering effluent is to be disposed to the storm system, a permit (e.g., National Pollution Discharge Elimination System [NPDES]) from the Water Board will likely be required. Specific testing requirements and sampling frequency will be designated in the permit to discharge.

7. RISK MANAGEMENT MEASURES AFTER CONSTRUCTION

7.1 Notification

The Owner will notify any future Contractors of existing conditions and the hazards of exposure to existing soil if routine maintenance that would impact durable cover is required. If any activities that occur after initial development disturb the durable cover, or if there is a request to vary from the requirements of the RMP, then the Water Board must be notified in accordance with Sections 4.1 and 4.2.

7.2 Durable Cover Disturbance

If any maintenance or repair work disturbs durable cover, the integrity of the previously existing durable cover shall be re-established in accordance with the protocols described in Section 6.2 and the O&M Plan.

7.3 Health and Safety

Based on information provided by the Owner, Contractors that will perform any activity that will disturb existing soil or impacted groundwater, including those listed in Section 3.2, must develop a HASP to protect their workers during these activities. Nothing in this section is intended to relieve any person, including contractors or employers, of other mandated worker health and safety planning and training requirements under any federal, state, or local statute or regulations, including Cal-OSHA Standard 1910.120. Section 6.4 provides guidelines for developing a HASP.

8. PUBLIC PARTICIPATION

A previous version of this RMP was prepared for the entire 13-acre Station A Area. That version of the RMP was subject to a 30-day public review and comment period between 26 October and 26 November 2014. No comments on this RMP were submitted by the public. This Final RMP was submitted to the Water Board and SFDPH on 09 December 2014. The Water Board approved this RMP in December 2014. Minor, non-substantive revisions were made to this RMP in 2016 to reflect the sale of one acre of the Station A Area from NRG to PG&E. No further public review was warranted as this revised RMP is substantively identical to the previous version that covered the entire 13-acre Station A Area.

9. REFERENCES

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AMEC, 2010b, Report of Results, Supplemental Soil Vapor Sampling, Potrero Power Plant, San Francisco, California, December.

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California Code of Regulations, Title 8, Subchapter 4, Construction Safety Orders, Article 4. Dust Fumes, Mists, Vapors and Gases. §1529 Asbestos.

California Code of Regulations, Title 17, § 93105, Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying and Surface Mining Operations.

California Code of Regulations, Title 17, § 93106, Asbestos Airborne Toxic Control Measure for Surfacing Applications.

California Code of Regulations, Title 8, Construction Safety Orders, § 1532, Chromium VI.

California Code of Regulations, Title 8, General Industry Safety Orders, § 5206, Chromium VI.

California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, Integrated Risk Assessment Section, 2004, Human-Exposure-Based Screening Numbers Developed to Aid Estimation of Cleanup Costs for Contaminated Soil, November (January 2005 Revision).

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Pacific Gas and Electric Company (PG&E), 1999, Declaration of Covenants, Conditions and Environmental Restrictions, City and County of San Francisco Doc. No. 99-G553147-00, April 15.

Regional Water Quality Control Board (Water Board), 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, California Regional Water Quality Control Board, San Francisco Region, Oakland, California, November.

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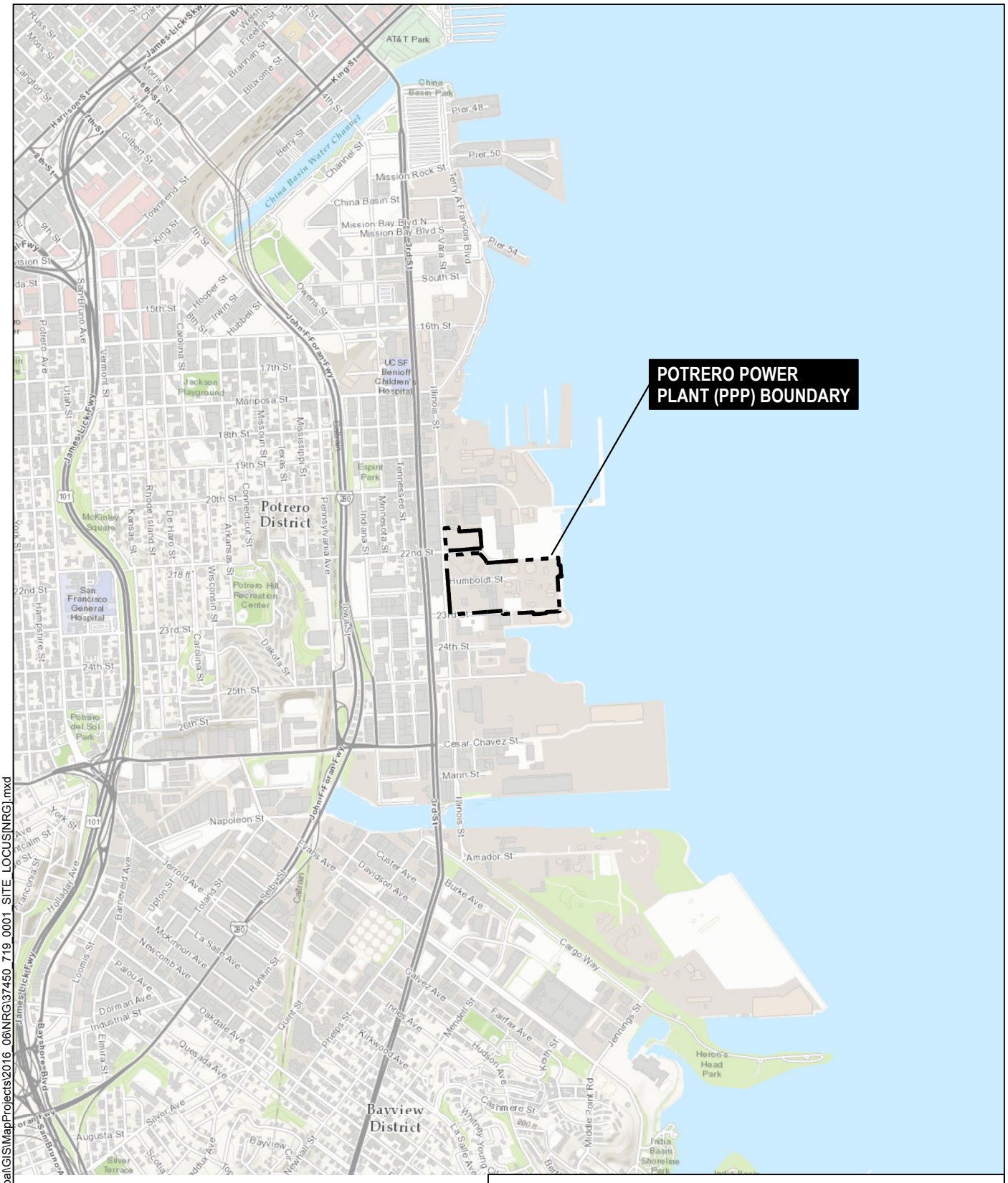
FIGURES



MAP SOURCE: ESRI
USGS QUAD: SAN FRANCISCO NORTH
SITE COORDINATES: 37°45'24.4"N, 122°23'3.37"W

HALEY ALDRICH

PACIFIC GAS AND ELECTRIC COMPANY (PG&E)
RISK MANAGEMENT PLAN - STATION A - NRG AREA
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

SITE LOCATION MAP

PIVOX Corporation

APPROXIMATE SCALE: 1 IN = 2,000 FT
JUNE 2016

FIGURE 1

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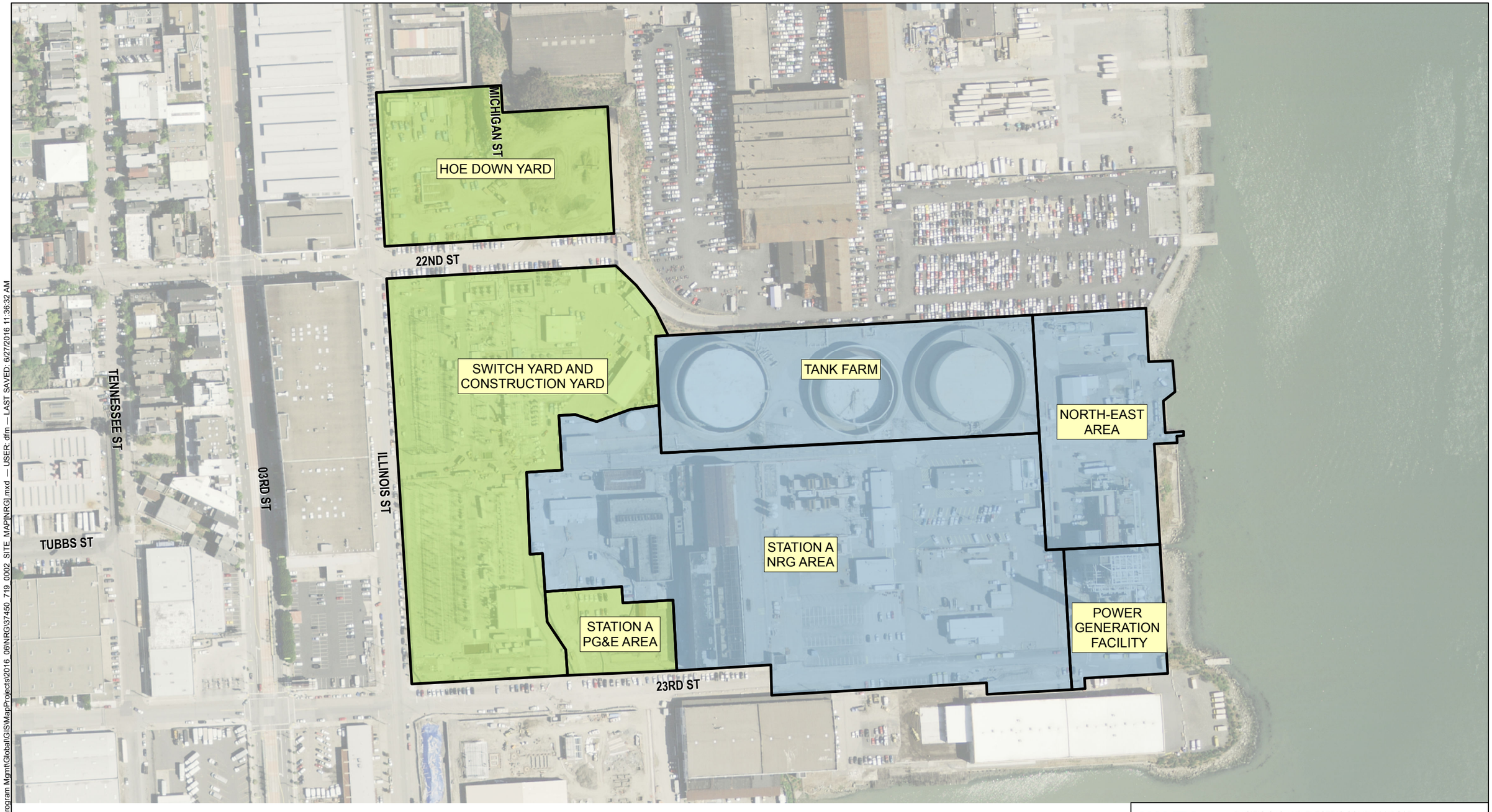

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LEGEND

- PG&E-OWNED PROPERTIES
- NRG PROPERTIES

NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

PACIFIC GAS AND ELECTRIC COMPANY (PG&E)
RISK MANAGMENT PLAN - STATION A - NRG AREA
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

PG&E AND NRG POTRERO, LLC OWNED PORTIONS OF THE POTRERO POWER PLANT SITE

PIVOX Corporation

JUNE 2016

FIGURE 2

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HOE DOWN YARD

MICHIGAN STREET

22nd STREET

PORT OF SAN FRANCISCO PIER 70 PROPERTY

GC YARD

NORTH SWITCHYARD AREA

ADMINI-STRATIVE BUILDING

PERSONNEL MANAGEMENT SHED

FORMER GAS HOLDER FOUNDATION

TRAILERS

SAFETY, HEALTH AND CLAIMS BLDG

TANK 3-4
No 6
Fuel Oil

TANK 3-5
Diesel Fuel

TANK 3-3
No. 6
Fuel Oil

PG&E PROPERTY

MICHIGAN STREET

ILLINOIS STREET

WATER TANK

FIRE PUMP HOUSE

DIESEL TANKS

NRG POTRERO, LLC PROPERTY

HUMBOLDT STREET

SOUTH SWITCHYARD AREA

FORMER METER STATION BLDG

FORMER MACHINE SHOP

FORMER COMPRESSOR BLDG

GEORGIA STREET

STATION A BUILDING

FORMER UNIT 4 (REMOVED)

FORMER UNIT 5 (REMOVED)

FORMER UNIT 6 (REMOVED)

MAINTENANCE BLDG

WAREHOUSE

ELEC. SHOP

FENCED ENCLOSURE (MAINTENANCE AND STORAGE)

ABRASIVE BLAST BLDG

LOUISIANA STREET

SWITCHYARD

SUBSTATION

CONTROL BUILDING

FORMER GAS HOLDER FOUNDATION

PG&E PROPERTY

23rd STREET

FORMER PUMP HOUSE

OFFICE BLDG

POWER BUILDING AND UNIT 3

CONCRETE STRUCTURE ASSOCIATED WITH HISTORICAL SHIPPING BERTH

RIP/RAP DEBRIS

PORT OF SAN FRANCISCO PROPERTY

SHORELINE IRM/ REVETMENT

SAN FRANCISCO BAY

SHEET PILE WALL

EXISTING COOLING WATER INTAKE

FORMER INTAKE PIPE

PORT OF SAN FRANCISCO PROPERTY

EXISTING COOLING WATER OUTFALL

LEGEND

- SITE BOUNDARY
- PROPERTY BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- RIP/RAP DEBRIS
- SHORELINE IRM/REVETMENT
- STATION A AREA COVERED BY THE RISK MANAGMENT PLAN (PG&A AREA)
- STATION A AREA COVERED BY THE RISK MANAGMENT PLAN (NRG AREA)

NOTES:

1. LOCATION AND DIMENSIONS OF SITE FEATURES ARE APPROXIMATE.
2. BASE MAP SOURCE: AMEC, 2011.

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0 140 280

SCALE IN FEET

HALEY ALDRICH

PACIFIC GAS AND ELECTRIC COMPANY (PG&E)
RISK MANAGMENT PLAN - STATION A - NRG AREA
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

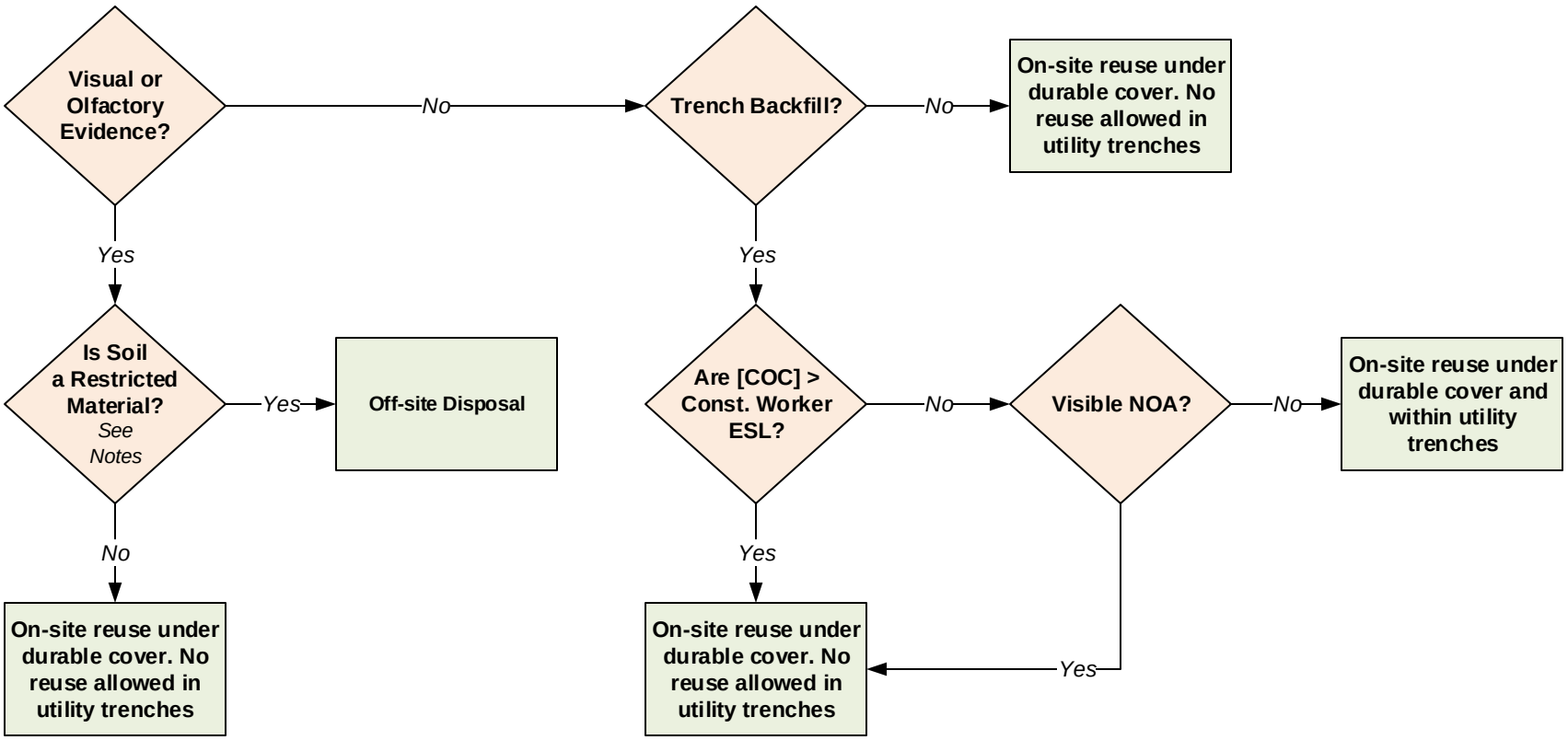
SITE PLAN AND SITE FEATURES

PIVOX Corporation

JUNE 2016

FIGURE 3

G:\37450_Potrero_Program Mgmt\Global\CAD\Drawings\2016_06\37450_719_0004_DESCISION_FLOW_CHART.vsdx



NOTES:

Restricted material includes known waste material that poses unacceptable level of risk to human health and can be described as:

- MGP Waste (e.g. Coal Tar, Lampblack, or Prussian Blue)
- Tank bottom sludge
- Oil-saturated soil (Continous DNAPL)
- Sand blast grit
- Contaminated construction debris rubble such as refractory brick, transite pipe, lead-based paint coated materials.

Abbreviations:

[COC] = Constituent Of Concern
ESL = Environmental Screening Levels (RWQCB, 2013)
NOA = Naturally Occurring Asbestos
“>” = greater than

HALEY ALDRICH

PACIFIC GAS AND ELECTRIC COMPANY (PG&E)
RISK MANAGMENT PLAN - STATION A – NRG AREA
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

ON-SITE SOIL REUSE DECISION FLOW

PIVOX Corporation

JUNE 2016

FIGURE 4

APPENDIX A

Covenant and Environmental Restriction on Property

San Francisco Assessor-Recorder
Carmen Chu, Assessor-Recorder
DOC- 2016-K305568-00
Check Number 8468
Friday AUG 12 2016 15 11 32
Tkt Pd $48 00 Rept # 0005432419
dm2/DH/1-12

Recording Requested By

NRG Potrero, LLC

When Recorded, Mail To
California Regional Water Quality Control Board
San Francisco Bay Region
Attn Executive Officer
1515 Clay Street, Suite 1400
Oakland, California 94612
[GeoTracker # T10000004520]

COVENANT AND ENVIRONMENTAL RESTRICTION ON PROPERTY

Portion of 1201 Illinois Street, San Francisco, California
APN 4175-006 (portion), 4232-001, & 4232-006 (portion)

This Covenant and Environmental Restriction on Property (this "Covenant") is made as of the 11th day of August, 2016 by NRG Potrero, LLC ("Covenantor") who is the current Owner of record of that certain property situated at the address commonly known as the Station A area at 1201 Illinois Street, in the City of San Francisco, County of San Francisco, State of California, which is more particularly described in Exhibit A and graphically depicted on Exhibit B attached hereto and incorporated herein by this reference (such property hereinafter referred to as the "Burdened Property"), for the benefit of the California Regional Water Quality Control Board for the San Francisco Bay Region (the "Water Board"), with reference to the following facts

A Hazardous Materials are Present The Burdened Property and groundwater underlying the Burdened Property contain hazardous materials as defined in California Health & Safety Code Section 25260, subd (d)

B Contamination at the Burdened Property The Burdened Property was historically used, among other industrial operations, as a manufactured gas plant (MGP), which resulted in releases of pollutants including petroleum hydrocarbons and polycyclic aromatic hydrocarbons from the manufactured gas process to soil and groundwater In addition, portions of the Burdened Property have been filled with fill material containing residual levels of pollutants Collectively such pollutants at the Burdened Property are referred to as "Constituents of Concern" or "COCs "

Constituents of concern detected in soil and/or groundwater at the Burdened Property include various petroleum compounds, heavy metals and polynuclear aromatic hydrocarbons In addition, naturally occurring asbestos (typically 1% to 3%) has been detected in soil on the Burdened Property Summaries of analytical data collected are presented in the Risk Management Plan (RMP), which is incorporated herein by this reference Further information is available on GeoTracker under case number 38S0038 and/or in the Regional Water Board's files

C Exposure Pathways The COCs addressed in this Covenant are present in soil and groundwater on the Burdened Property The Burdened Property is currently covered with structures, building foundations or pavement, which together are referred to as the "Durable Cover"

The presence of the Durable Cover has substantially reduced the risk of public exposure to the COCs However, redevelopment activities that affect the integrity of the Durable Cover, such as excavation or demolition of existing structures, could increase the risk of exposure via dermal contact, inhalation, and incidental ingestion The controls and requirements set forth in this Covenant and the RMP, are designed to guide intrusive activities and minimize the risk of exposure

D Risk Management Plan In order to assure the continued protection of human health and the environment, this Covenant has been placed on the Burdened Property and an RMP has been prepared for the Burdened Property The RMP sets forth health and safety procedures and COC management protocols to be followed during construction, including changes in land use, or maintenance activities on the Burdened Property The RMP also sets forth procedures for long-term management of residual COCs on the Burdened Property A copy of the RMP must be maintained by the Property Owner(s) and shall be consulted prior to construction and maintenance activities and complied with at all times It is the responsibility of the Owner(s) and Occupants to ensure compliance with this Covenant and associated RMP at all times over such portion(s) of the Burdened Property over which they maintain control

E Adjacent Land Uses and Population Potentially Affected The Burdened Property is used for commercial/industrial purposes and is adjacent to commercial, industrial and residential land uses

F Disclosure Full and voluntary disclosure to the Water Board of the presence of hazardous materials on the Burdened Property has been made and sampling of the Burdened Property has been conducted

G Covenantor desires and intends that in order to benefit the Water Board, and to protect the present and future public health and safety and the environment, the Burdened Property shall be used in such a manner consistent with this Covenant and the RMP to avoid potential harm to persons or property that may result from hazardous materials that may have been deposited on portions of the Burdened Property

ARTICLE I
GENERAL PROVISIONS

1 1 Provisions to Run with the Land This Covenant sets forth protective provisions, covenants, conditions and restrictions (collectively referred to as "Restrictions") upon and subject to which the Burdened Property and every portion thereof shall be improved, held, used, occupied, leased, sold, hypothecated, encumbered, and/or conveyed The restrictions set forth in Article III are reasonably necessary to protect present and future human health and safety or the

environment as a result of the presence on the land of COCs Each and all of the Restrictions shall run with the land, and pass with each and every portion of the Burdened Property, and shall apply to, inure to the benefit of, and bind the respective successors in interest thereof, for the benefit of the Water Board and all Owners and Occupants Each and all of the Restrictions are imposed upon the entire Burdened Property unless expressly stated as applicable to a specific portion of the Burdened Property Each and all of the Restrictions run with the land pursuant to section 1471 of the Civil Code Each and all of the Restrictions are enforceable by the Water Board

1 2 Concurrence of Owners, Occupants and Lessees Presumed All purchasers, lessees, Owners, Occupants, or possessors of any portion of the Burdened Property shall be deemed by their purchase, leasing, or possession of such Burdened Property, to be in accord with the foregoing and to agree for and among themselves, their heirs, successors, and assignees, and the agents, employees, and lessees of such owners, heirs, successors, and assignees, that the Restrictions as herein established must be adhered to for the benefit of the Water Board and the Owners and Occupants of the Burdened Property and that the interest of the Owners and Occupants of the Burdened Property shall be subject to the Restrictions contained herein

1 3 Incorporation into Deeds and Leases Covenantor desires and covenants that the Restrictions set out herein shall be incorporated in and attached to each and all deeds and leases of any portion of the Burdened Property Recordation of this Covenant shall be deemed binding on all successors, assigns, and lessees, regardless of whether a copy of this Covenant has been attached to or incorporated into any given deed or lease

1 4 Purpose It is the purpose of this instrument to convey to the Water Board real property rights, which will run with the land, to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials

ARTICLE II
DEFINITIONS

2 1 Water Board "Water Board" shall mean the California Regional Water Quality Control Board for the San Francisco Bay Region and shall include its successor agencies, if any

2 2 Durable Cover The "Durable Cover" shall mean any pavement or other surface described in the RMP capable of preventing exposure to underlying soil and is sufficiently robust to withstand the intended use of the Burdened Property without adverse deterioration

2 3 Improvements "Improvements" shall mean all buildings, roads, driveways, and paved parking areas, constructed or placed upon any portion of the Burdened Property

2 4 Occupant or Occupants "Occupant" or "Occupants" shall mean Owners and those persons entitled by ownership, leasehold, or other legal relationship to the exclusive right to use and/or occupy all or any portion of the Burdened Property

2 5 Owner or Owners "Owner" or "Owners" shall mean the Covenantor and/or its successors in interest, who hold title to all or any portion of the Burdened Property

2 6 Risk Management Plan Management Plan The "Risk Management Plan, Station A NRG Area" ("RMP") shall mean the June 16, 2016, Risk Management Plan, Station A NRG Area, prepared by PIVOX, Corporation/Haley & Aldrich It also includes any amendments or revisions thereto, which have been approved in writing by the Water Board's Executive Officer

ARTICLE III
DEVELOPMENT, USE AND CONVEYANCE OF THE BURDENED PROPERTY

3 1 Restrictions on Development and Use Covenantor promises to restrict the use of the Burdened Property, as follows, unless expressly permitted in writing by the Water Board's Executive Officer, as provided in the RMP and Article IV

a Development of the Burdened Property shall be restricted to industrial, or commercial use,

b No temporary or permanent residence (including hotels, motels and the like) for human habitation shall be permitted on the Burdened Property,

c No hospitals or health care facilities shall be permitted on the Burdened Property,

d No schools for persons under 21 years of age shall be permitted on the Burdened Property,

e No park, playground or other areas for recreation use shall be permitted on the Burdened Property,

f No day care centers for children or day care centers for Senior Citizens shall be permitted on the Burdened Property,

f Owner(s) or Occupant(s) of the Burdened Property or any portion thereof shall notify the Water Board of any excavation work or disturbance to the Durable Cover greater than 50 cubic yards of soil, or covering an area of greater than 1,250 square feet, on the Burdened Property as set forth in the RMP Any COC impacted soil brought to the surface by any grading, excavation, trenching, or backfilling shall be managed by Owner(s) or Occupant(s) or its agent in accordance with all applicable provisions of local, state and federal law and the RMP

g All uses, maintenance and development of the Burdened Property shall be consistent with the RMP at all times, including but not limited to preserving the integrity of the Durable Cover, any remedial measures taken, remedial equipment installed, and any groundwater monitoring system installed on the Burdened Property pursuant to the requirements of the Water Board and/or the RMP, unless otherwise expressly permitted in writing by Water Board's Executive Officer in accordance with the RMP

h No Owners or Occupants of the Burdened Property or any portion thereof shall drill, bore, otherwise construct, or use a well for the purpose of extracting water for any use, including, but not limited to, domestic, potable, or industrial uses, unless expressly permitted in writing by the Water Board's Executive Officer

i The Owner and/or Occupant, as appropriate, shall notify the Water Board of each of the following if not performed in compliance with the RMP (1) The type, cause, location and date of any disturbance to the Durable Cover, any remedial measures taken or remedial equipment installed, and of the groundwater monitoring system installed on the Burdened Property pursuant to the requirements of the Water Board, which could affect the ability of the Durable Cover or remedial measures, remedial equipment, or monitoring system to perform their respective functions and (2) the type and date of repair of such disturbance Notification to the Water Board shall be made by registered mail within ten (10) working days of both the discovery of such disturbance and the completion of repairs, unless provided differently in the RMP,

j The Owner and/or Occupant, as appropriate, agrees that the Water Board, and/or any persons acting pursuant to Water Board requirements or authority, shall have reasonable access to the Burdened Property for the purposes of inspection, surveillance, maintenance, or monitoring, as provided for in Division 7 of the Water Code

k No Owner or Occupant of the Burdened Property shall act in any manner that will aggravate or contribute to the existing environmental conditions of the Burdened Property All use and development of the Burdened Property shall preserve the integrity of the Durable Cover, as provided in the RMP

3 2 Enforcement Failure of an Owner or Occupant to comply with any of the restrictions, as set forth in paragraph 3 1, shall be grounds for the Water Board, by reason of this Covenant, to have the authority to require the Owner or Occupant to modify or remove any Improvements constructed in violation of that paragraph Violation of the Covenant shall be grounds for the Water Board to file civil actions against the Owner or Occupant as provided by law

3 3 Notice in Agreements After the date of recordation hereof, all Owners and Occupants shall execute a written instrument which shall accompany all purchase agreements or leases relating to the Burdened Property Any such instrument shall contain the following statement

> The land described herein contains hazardous materials in soils and in the ground water under the property, and is subject to a deed restriction and associated Risk Management Plan dated as of _____, 2016, and recorded on _____, 2016, in the Official Records of the City and County of San Francisco, California, as Document No _____, which Covenant and Restriction imposes certain covenants, conditions, and restrictions on usage of the property described herein This statement is not a declaration that a hazard exists

ARTICLE IV
VARIANCE AND TERMINATION

4 1 Variance Any Owner or, with the Owner's consent, any Occupant of the Burdened Property or any portion thereof may apply to the Water Board for a written variance from the provisions of this Covenant The RMP sets forth a process to apply for a Variance The Water Board's Executive Officer will grant or deny the request for variance

4 2 Termination Any Owner or, with the Owner's consent, any Occupant of the Burdened Property or a portion thereof may apply to the Water for a termination of the Restrictions as they apply to all or any portion of the Burdened Property The Water Board's Executive Officer will grant or deny the termination request

4 3 Term Unless terminated in accordance with paragraph 4 2 above, by law or otherwise, this Covenant shall continue in effect in perpetuity

ARTICLE V
MISCELLANEOUS

5 1 No Dedication Intended Nothing set forth herein shall be construed to be a gift or dedication, or offer of a gift or dedication, of the Burdened Property or any portion thereof to the general public

5 2 Notices Whenever any person gives or serves any notice, demand, or other communication with respect to this Covenant, each such notice, demand, or other communication shall be in writing and shall be deemed effective (1) when delivered, if personally delivered to the person being served or official of a government agency being served, or (2) three (3) business days after deposit in the mail if mailed by United States mail, postage paid certified, return receipt requested

If To "Covenantor"
Attn General Counsel
NRG Potrero LLC
211 Carnegie Center
Princeton, NJ 08540

If To "Water Board"
Regional Water Quality Control Board
San Francisco Bay Region
Attention Executive Officer
1515 Clay Street, Suite 1400
Oakland, California 94612
[GeoTracker # T10000004520]

5 3 Partial Invalidity If any portion of the Restrictions or terms set forth herein is determined to be invalid for any reason, the remaining portion shall remain in full force and effect as if such portion had not been included herein

5 4 Article Headings Headings at the beginning of each numbered article of this Covenant are solely for the convenience of the parties and are not a part of the Covenant

5 5 Recordation This instrument shall be executed by the Covenantor and by the Executive Officer of the Water Board This instrument shall be recorded by the Covenantor in the County of San Francisco within ten (10) days of the date of execution

5 6 References All references to Code sections include successor provisions

5 7 Construction Any general rule of construction to the contrary notwithstanding, this instrument shall be liberally construed in favor of the Covenant to effect the purpose of this instrument and the policy and purpose of the Water Code If any provision of this instrument is found to be ambiguous, an interpretation consistent with the purpose of this instrument that would render the provision valid shall be favored over any interpretation that would render it invalid

IN WITNESS WHEREOF, the parties execute this Covenant as of the date set forth above

Covenantor
NRG Potrero, LLC

By _____
John Chillemi
Title President
Date 8/12/16

Agency
California Regional Water Quality Board, San Francisco Bay Region

By _____
Bruce H Wolfe
Title Executive Officer
Date Aug 11, 2016

LD XXSF-00-4439
2016036 (22-12-039) 2 16 1
Potrero Station A Deed Restriction

EXHIBIT "A"

The parcel of land situate in the City and County of San Francisco, State of California, described as follows

(APN 4175 017 (portion), 4232 001, 4232 006 (portion))

PARCEL 1

Commencing at the point of intersection of the northerly boundary line of 23rd Street with the easterly boundary line of Illinois Street, and running thence along said northerly boundary line of 23rd Street

(a) north 86°49'44" east 543 85 feet

to the general westerly boundary line of the parcel of land described in the deed from NRG Potrero, LLC, to NRG Potrero, LLC, dated January 14, 2016, and recorded as Document Number 2016 K187755 in Official Records of the City and County of San Francisco, also being the TRUE POINT OF BEGINNING for this description, thence leaving said northerly boundary line of 23rd street and running along said general westerly boundary line the following 13 courses

(1) north 3°10'16" west 161 58 feet,
(2) south 86°49'44" west 106 84 feet,
(3) north 3°10'16" west 34 68 feet,
(4) south 86°49'44' west 158 55 feet,
(5) north 3°10 16" west 89 59 feet,
(6) south 86°49'44" west 15 75 feet
(7) north 3°41'19" west 148 65 feet,
(8) north 87°24'17" east 76 76 feet
(9) north 3°10'16" west 121 47 feet,
(10) north 86°49'44" east 35 24 feet,
(11) south 71°40'08" east 47 67 feet,
(12) north 70°10 11' east 76 13 feet,
(13) north 82°22'09" east 52 89 feet,

thence leaving said general westerly boundary line

(14) south 3°10'16" east 104 01 feet, thence
(15) north 86°49'44" east 829 59 feet, thence
(16) south 3°10'16" east 277 54 feet, thence
(17) south 86°49'44" west 17 64 feet, thence
(18) south 3°10'16 east 16 05 feet, thence
(19) north 86°49'44" east 17 32 feet, thence
(20) south 3°10'16" east 206 39 feet

to the northerly boundary line of the parcel of land described and designated PARCEL E in the deed from Pacific Gas and Electric Company to Southern Energy Potrero, LLC, dated April 15, 1999 and recorded on Reel H365 of Official Records

as image 0672, Records of the City and County of San Francisco, thence along the northerly boundary line of said PARCEL E

(21) north 86°49'44 ' east 22 43 feet

to the northeasterly corner of said PARCEL E, thence along the easterly boundary line of said PARCEL E

(22) south 3°10'16 east 47 50 feet

to the southeasterly corner of said PARCEL E, thence along the southerly boundary line of said PARCEL E and the southerly boundary line of the parcel of land described and designated PARCEL C in said deed dated April 15, 1999

(23) south 86°49'44" west 180 08 feet

to the southwesterly corner of said PARCEL C, thence along the westerly boundary line of said PARCEL C and the westerly boundary line of the parcel of land described and designated PARCEL D in said deed dated April 15, 1999

(24) north 3°10'16' west 25 16 feet

to the southerly boundary line of the parcel of land described and designated PARCEL B in said deed dated April 15, 1999, thence leaving the westerly boundary line of said PARCEL D and along the southerly boundary line of said PARCEL B

(25) south 86°49'44" west 455 00 feet

to the southwesterly corner of said PARCEL B thence along the westerly boundary line of said PARCEL B

(26) north 3°10'16" west 62 67 feet

to the northerly boundary line of 23rd Street, thence leaving the westerly boundary line of said PARCEL B and along the northerly boundary line of 23rd Street

(27) south 86°49'44' west 216 15 feet, more or less,

to the True Point of Beginning

Being a portion of Potrero Nuevo Blocks No 444, 477, 490, 491, and portions of Georgia Street, Louisiana Street, Maryland Street, Delaware Street Humboldt Street and 23rd Street as said streets existed prior to the closure (vacation) thereof

The foregoing description is based on a survey made by Pacific Gas and Electric Company in January 2016 The bearings used are based upon the assumed bearing of S 03°10'16" E shown upon said Record of Survey filed for record April 23, 2002, which assumed bearing is along the monument line of Third Street between 22nd Street and 23rd Street

2/24/16

LD XXSF-00-4439
2016036 (22-12-039) 2 16 1
Potrero Station A Deed Restriction

Attach to LD XXSF-00-4439
Area 1 Bay Region San Francisco Division
Land Service Office San Francisco
Operating Department Potrero PP Switchyard
T2S R5W MDM
Sec 14 SW4
FERC License Number(s) NA
PG&E Drawing Number(s) L-9210rev2
PLAT NO NA
LD of any affected documents SF-4250
LD of any Cross-referenced documents SF-3817 SF-3869
Vesting Deeds N365-672 2016-K187755
TYPE OF INTEREST 42 (Deed Restriction)
SBE Parcel Number [redacted]-014D
(For Quitclaims % being quitclaimed NA
Order # or PM # 9724022
JCN 22-12-039
County San Francisco
Utility Notice Numbers NA
851 Approval Application No_____Decision_____ NA
Prepared By CICO
Checked By DKZ71

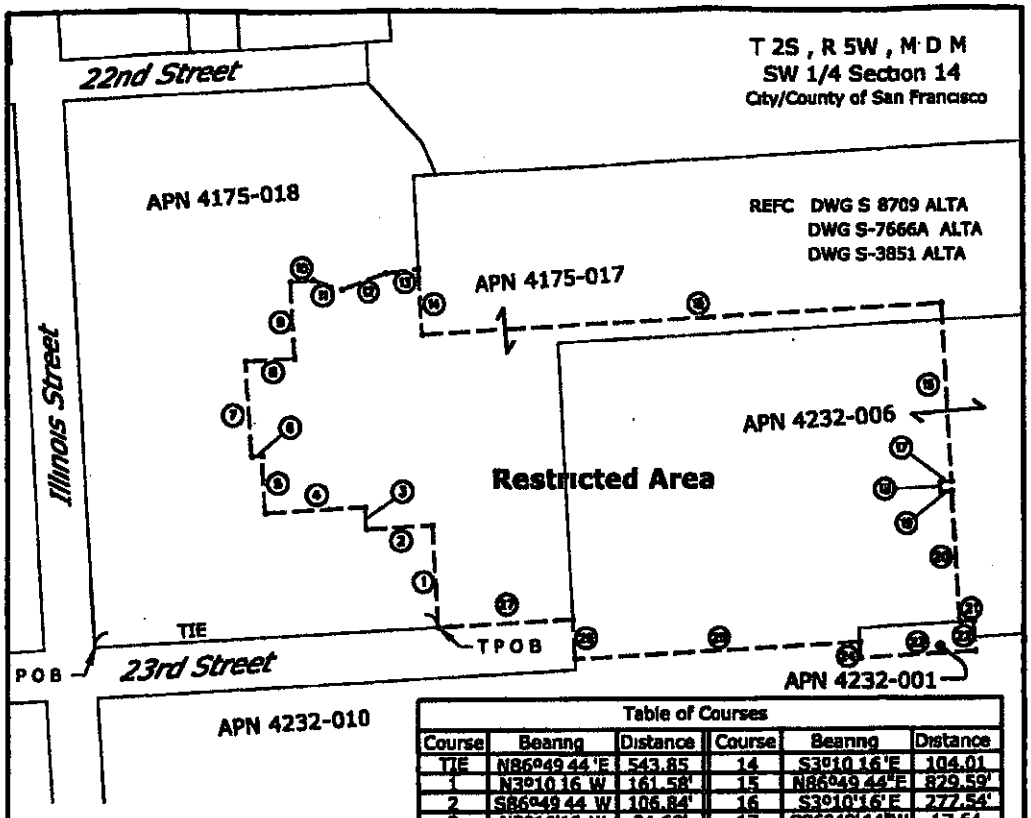


Table of Courses					
Course	Bearing	Distance	Course	Bearing	Distance
TIE	N86°49'44"E	543.85'	14	S3°10'16"E	104.01'
1	N3°10'16"W	161.58'	15	N86°49'44"E	829.59'
2	S86°49'44"W	106.84'	16	S3°10'16"E	277.54'
3	N3°10'16"W	34.68'	17	S86°49'44"W	17.64'
4	S86°49'44"W	158.55'	18	S3°10'16"E	16.05'
5	N3°10'16"W	89.59'	19	N86°49'44"E	17.32'
6	S86°49'44"W	15.75'	20	S3°10'16"E	206.39'
7	N3°41'19"W	148.65'	21	N86°49'44"E	22.43'
8	N87°24'17"E	76.76'	22	S3°10'16"E	47.50'
9	N3°10'16"W	121.47'	23	S86°49'44"W	180.08'
10	N86°49'44"E	35.24'	24	N3°10'16"W	25.16'
11	S71°40'08"E	47.67'	25	S86°49'44"W	455.00'
12	N70°10'11"E	76.13'	26	N3°10'16"W	62.67'
13	N87°22'09"E	52.89'	27	S86°49'44"W	216.15'

PROFESSIONAL LAND SURVEYOR
CHRISTOPHER A. CHU
3/24/16
No. 8857
STATE OF CALIFORNIA

BASIS OF BEARINGS.
Assumed bearing of S 03°10 16 E along monument line of Third Street between 22nd Street and 23rd Street per Record of Survey filed in Book AA of Maps 13-14

ABBREVIATIONS.
P O B Point of Beginning
T P O B True Point of Beginning

PG&E LAND ENGINEERING

Pacific Gas & Electric Company
Land Surveying & Engineering Support, South Coast
245 Market St N10A, San Francisco, CA 94105
ph (415)973-7894 fax (415)973-1522

Exhibit "B"

2016036 (22-12-039)
Potrero Station A

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached and not the truthfulness accuracy or validity of that document

State of California
County of Alameda

On August 11, 2016 *(insert date)*, before me Emmaflor Songalia *(insert name and title of the officer)*, personally appeared Bruce Hutch Wolfe [Covenantor], who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted executed the instrument

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct

WITNESS my hand and official seal

Signature _____ (Seal)

EMMAFLOR E SONGALIA
Commission # 2082090
Notary Public California
San Francisco County
My Comm Expires Sep 18 2018

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness accuracy, or validity of that document

State of California
County of San Francisco

On August 12, 2016 *(insert date)* before me J M Bergman, Notary *(insert name and title of the officer)* personally appeared John Chilleen [Executive Officer], who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies) and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted executed the instrument

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct

WITNESS my hand and official seal

Signature J M Bergman (Seal)

J M BERGMAN
COMM #2046489
Notary Public California
Contra Costa County
My Comm Expires Nov 25 2017

APPENDIX B

Modification of the Risk Management Plan Due to a Change in Land Use or Redevelopment

APPENDIX B
MODIFICATION OF THE RISK MANAGEMENT PLAN DUE TO A CHANGE IN LAND USE OR REDEVELOPMENT
STATION A NRG AREA
POTRERO POWER PLANT SITE
RISK MANAGEMENT PLAN
SAN FRANCISCO, CALIFORNIA

B1.0 BACKGROUND

A change in land use from approved land uses (commercial/industrial) to currently restricted land uses (i.e., temporary/permanent residence, motels/hotels, health care facility, schools for persons under 21 years of age, daycare center for children/senior citizens, park, playground, or other recreational use) requires written approval by Water Board staff. Such approval may also require modifications to any existing LUC and this RMP, for which written approval may also be provided by Water Board staff. The Owner, or its designee, is responsible for obtaining the approval. The approval will be specific to the portion of the Station A Area associated with the proposed land use and will be specific to a proposed project, which project may include one or more uses or structure. Approval may require an additional human health risk evaluation, additional media-specific mitigation, and/or additional institutional and engineering controls, to assure protectiveness of current and future site users, maintenance and construction workers, and the public.

B1.1 Conditional Approval for Change in Land Use

A Project-Specific Proposal must be submitted for approval to Water Board staff describing the proposed change in land use, which will be responded to within 60 days of receipt by Water Board staff. This submittal must describe the proposed project in sufficient detail and include an evaluation of potential risks to human health and the environment, if any, posed by the proposed change in land use. For example, if the results of a project-specific human health risk evaluation indicate that a risk level will exceed a non-cancer hazard index of 1 and/or a cancer risk greater than $1x10^{-6}$, the Project-Specific Proposal will need to include a general description of proposed mitigation measures, including engineering and institutional controls to be implemented to assure protection of current and future site users, maintenance and construction workers, and the public.

Should Water Board staff determine the proposed project is consistent with current applicable human health risk standards, it will issue a letter expressing conditional approval of the requested change in land use, pending submittal of acceptable engineering design documents (see Section B1.2) and proof of acceptable implementation of the proposed mitigation, engineering and/or institutional controls, as documented in a Completion Report (see Subsection B1.2.1).

B1.2 Engineering Design Documents and Approval

Upon conditional approval by Water Board staff of the Project-Specific Proposal, detailed engineering design documents must be submitted to Water Board staff for review, provided engineering controls are required. Such review will be completed within 60 days of receipt by Water Board staff. These documents will provide the engineering design and specifications for the construction and implementation of the

approved project-specific mitigation, engineering, and/or institutional controls. This submittal must be stamped by a licensed Professional Civil Engineer registered in California (Engineer of Record). The Water Board staff review and approval of the engineering design documents is required prior to the Owner initiating construction.

Required in this submittal is a statement that the design is an appropriate and adequate measure for the proposed project at its intended location that will prevent significant human health impacts (i.e., risk level will exceed a non-cancer hazard index of 1 and/or a cancer risk greater than $1x10^{-6}$) to future site users, maintenance and construction workers, and the public from exposure to any remaining site contaminants.

B1.2.1 Completion Report

After the mitigation elements presented in the engineering design documents are constructed, the Owner must prepare and submit a Completion Report documenting its step-by-step installation of any engineering controls in accordance with the engineering design documents approved by the Water Board within 60 days of completion. The Completion Report must be stamped by the licensed Engineer of Record and include detailed "As-Built" drawings of any mitigation measures and/or engineering controls and a statement that these elements have been properly installed and inspected and are consistent with the engineering documents and the standards described in this Appendix.

B1.2.2 Risk Management Plan Revision

The RMP must be revised to reflect changes in mitigation and/or engineering and institutional controls; these revisions will be approved by Water Board staff. This includes adding new or updated monitoring/maintenance requirements and/or protocols for any mitigation or engineering controls. The Revised RMP must be submitted for approval to Water Board staff under the license of the Engineer of Record and submitted concurrently with the Completion Report. The Water Board will review the Completion Report and revised RMP submittal package and provide a final approval as described below in Subsection B1.2.3.

B1.2.3 Final Approval

Once the Completion Report and RMP revisions are approved by Water Board staff, the land use change and improvements shall be deemed approved. The Water Board staff will review the revisions within 30 days of the date of receipt. The approval will be specific to the project and location described in the project documents, including the engineering design documents and the Completion Report. The approval must be obtained prior to any occupation or use of the property, other than for engineering or demonstration purposes.

APPENDIX C

Summary of Environmental Conditions and Analytical Data Tables

APPENDIX C
SUMMARY OF ENVIRONMENTAL CONDITIONS AND ANALYTICAL DATA TABLES STATION A NRG AREA POTRERO POWER PLANT SITE RISK MANAGEMENT PLAN SAN FRANCISCO, CALIFORNIA

C1.0 BACKGROUND

This section describes the uplands portion of the Potrero Power Plant Site, its setting and history pertinent to current environmental conditions, with a focus on the Station A Area.

C1.1 Site Description and Current Use

The 13-acre Station A Area is a sub-area of the approximately 34-acre Potrero Power Plant site formerly owned by Pacific Gas and Electric Company (PG&E), which is located in an industrial waterfront area of San Francisco, south of the central business district, and is bounded by Illinois Street to the west, 23rd Street and industrial properties to the south, San Francisco Bay to the east, and the Port of San Francisco's Pier 70 property to the north (Figure 1 of the RMP). NRG Potrero, LLC, (NRG) currently owns 21 of the 34 acres, including the 12 acres of the13-acre Station A Area. The power plant, which is owned and was operated most recently by NRG, ceased operation on March 1, 2011.

Figure 2 of the RMP shows the PG&E and NRG-owned portions of the Station A Area of the Potrero Power Plant site. The Station A Area is located in the south-central portion of the Potrero Power Plant Site and is bounded to the west by PG&E's Switchyard, to the north by Humboldt Street, to the east by the former power generating unit (i.e., Unit 3), and to the south by 23rd Street. As shown on Figure 3 of the RMP, structures within the Station A Area consist of the former Station A building (central portion), a former gas metering house, compressor building, and machine shop (northwest corner). Structures associated with ceased power plant operations include an electrical shop, an abrasive blast building, and maintenance/storage buildings. Additionally, there were three diesel-powered "peaker" power generation units (Units 4, 5, and 6) that were removed from the Station A Area in 2011. During 2016, PG&E completed construction of a Gas Insulated Substation (GIS) on a one-acre portion of Station A (station A PG&E Area). Except for a few limited areas, the Station A Area is either occupied by structures or covered with asphalt or concrete pavement. Durable cover was installed to the satisfaction of the Water Board within the limited areas where it is currently incomplete during 2015.

C1.2 Site History

Historical operations in the Station A Area included power generation and sugar refining. Historical uses within other areas of the Potrero Power Plant Site included manufactured gas plant (MGP) operations to the north and barrel manufacturing to the west and northwest. General historical usage at the Potrero Power Plant Site, including the Station A Area, is shown on Figure C-1 of this Appendix.

The California Sugar Refinery operated in the eastern portion of the Station A Area from 1883 until approximately 1950. The sugar refinery contained coal sheds, a boiler room, and supporting shops (e.g.,

blacksmith, machine, and carpenter shops). Prior to the 1900s, the sugar refinery was primarily fueled by coal; thereafter it was fueled by oil.

The Station A power generation facility was constructed in the western portion of the Station A Area in 1910 and utilized steam turbines to generate electric power until the late 1960s. Fuel oil was used from 1910 to the late 1920s to fire the boilers; natural gas was used thereafter. Two gas holders were constructed west of Station A in the early 1910s; these were likely used for storing manufactured gas produced from MGP operations conducted in areas outside of Station A. The foundation of one of these gas holders is within the Station A Area. MGP operations were put on standby status by 1930; it is likely that the gas holders were subsequently used for the storage of natural gas for Station A electricity generation until the 1960s. The gas holders were decommissioned and removed by the late 1970s. Station A was decommissioned in 1979 and partially demolished in 1981. The remainder of the Station A building is currently vacant, locked, and has restricted access. The PG&E GIS is in operation.

Historical industrial operations in the vicinity of the Potrero Power Plant site include fuel oil storage, sugar warehouses and MGP operations to the south, iron works/shipbuilding and berthing to the north, and general warehousing and industrial uses to the east. Wharfs were present east of the Potrero Power Plant site within the San Francisco Bay.

C1.3 Geology and Hydrogeology

The southwestern corner and eastern portion of the Potrero Power Plant site formerly were submerged beneath San Francisco Bay, as indicated by the location of the 1851 shoreline (Figures C-1 and C-2). The Station A Area and the entire Potrero Power Plant site have been significantly influenced by the extensive placement of fill during the late 1800s and early 1900s.The source of the fill used is unknown; however, information obtained from previous subsurface investigations indicates that the fill consists of crushed serpentinite bedrock, building debris, soil, and possibly byproducts from the former industrial site uses. In general, the fill is present at less than 2 feet below ground surface (bgs) to 30 feet bgs. Existing soil within the Station A Area is assumed to contain contaminants and is subject to the conditions of this RMP. Existing soil is the soil present at the time the Station A remedy was approved, regardless of its provenance.

A northwest-to southeast-trending serpentinite bedrock ridge extends across the western portion of the Potrero Power Plant site and acts as a groundwater divide. In general, depth to groundwater ranges from 7 to 9 feet bgs south-southwest of the bedrock ridge and from 5 to 13 feet bgs east of the ridge. Groundwater flow is to the south-southwest on the western side of the bedrock ridge and the gradient is relatively steep. On the eastern side of the bedrock ridge, groundwater flow primarily is to the east-southeast, and the gradient is relatively shallow. Groundwater monitoring data suggest that tidal effects, if any, are not significant within the Station A Area.

C2.0 SUMMARY OF ENVIRONMENTAL CONDITIONS

This section summarizes environmental conditions at the Station A Area pertinent to protection of human health during routine site maintenance and/or construction activities where worker exposure to residual pollutants (collectively referred to as constituents of concern or COCs) is possible.

Not unlike many areas along San Francisco's waterfront, the existing soil within the Station A Area contains naturally occurring metals and asbestos as well as heavy hydrocarbons typical of bay-shore fill material. Numerous soil, groundwater, and soil vapor samples have been collected at the Station A Area

to evaluate for the presence of COCs. Reports documenting the results of these investigations have been submitted to the Water Board and include the following:

- Phase II Environmental Site Assessment (Fluor Daniel-GTI, 1998);
- Additional Site Characterization (Geomatrix Consultants, 2000);
- Soil Vapor Investigation Report (AMEC, 2010a); and
- Supplemental Soil Vapor Sampling Report (AMEC, 2010b).

These documents are available for review at the Water Board's office (Region 2) and their Geotracker website (http://geotracker.waterboards.ca.gov).

Soil and groundwater samples (Figure C-2) were analyzed for various COCs, including total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), metals, semi-volatile organic compounds (SVOCs) including phenols and polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and/or cyanide. A select number of samples also were analyzed for asbestos, which is likely associated with naturally occurring minerals in the soil (i.e., naturally occurring asbestos or NOA). Soil vapor samples were analyzed for TPH, VOCs, and naphthalene. Tables summarizing analytical results are included in this Appendix; chemical data results associated with the Station A PG&E Area are highlighted in green.

C2.1 Soil

Concentrations of PAHs, VOCs, PCBs, metals, and cyanide have been detected in soil samples collected throughout the Station A Area (Figure C-2). Soil samples containing benzo(a)pyrene and naphthalene, two of the commonly evaluated PAHs, were detected at maximum concentrations of 119 milligrams per kilogram (mg/kg) and 460 mg/kg, respectively. Benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected at maximum concentrations of 0.0134 mg/kg, 0.229 mg/kg, 0.9 mg/kg, and 2.8 mg/kg, respectively. PCBs were detected in soil samples at concentrations up to 2.8 mg/kg. Concentrations of metals were consistent with those found in area fill and throughout other areas of the Potrero Power Plant Site; for example, chromium, lead, and nickel are present at maximum concentrations of 1900 mg/kg, 3,400 mg/kg, and 2,300 mg/kg, respectively. Arsenic and cobalt also were detected at concentrations greater than ambient conditions/regional background, at concentrations up to 110 mg/kg and 147 mg/kg, respectively. Total cyanide concentrations were detected in soil samples at concentrations up to 27 mg/kg.

The presence of asbestos in soil at the site is primarily due to NOA, which is often associated with serpentinite rock. Serpentinite rock can range in color from apple green, brown, reddish brown, and gray to black and has a waxy or shiny appearance. The usual appearance of serpentinite is fine-grained and compact, but it can be flaky or fibrous. Serpentinite rock is mostly comprised of three mineral types, one of which is chrysotile, the most common form of NOA. Serpentinite is associated with the shallow bedrock at the site and with the weathered bedrock that may have been used historically in site fill.

A total of 42 soil samples have been collected and analyzed for chrysotile asbestos or total asbestos. Less than half of the soil samples contained detectable asbestos. Chrysotile asbestos was typically detected from a trace (e.g., less than 1%) to 3%, with one sample containing 30% of chrysotile fibers. These asbestos fibers may be considered friable if the soil were disturbed.

C2.2 Groundwater

COCs in groundwater either were not detected or were present at concentrations consistent with historical concentrations in samples from site wells in the vicinity of the Station A Area. Low concentrations (i.e., less than human health screening levels[1]) of metals detected in groundwater samples include arsenic, barium, chromium, cobalt, lead, mercury, molybdenum, nickel, selenium, vanadium, and zinc. Total cyanide was detected at a maximum concentration of 4.8 mg/L. PCBs were not detected in any groundwater samples. Low concentrations of PAHs also were detected. Total petroleum hydrocarbons quantified as diesel (TPHd) were detected at a maximum concentration of 4,670 milligrams per liter (mg/L). BTEX compounds were detected at concentrations up to 0.19 mg/L, 0.005 mg/L, 1.31 mg/L, and 4.3 mg/L. The greatest concentrations of petroleum hydrocarbons (e.g., TPHd and BTEX) were from samples collected from former wells MW-1, MW-3 and MW-6, which were located within the central portion of the Station A Area.

C2.3 Soil Vapor

Soil vapor surveys were conducted in 2009 and 2010 across the entire 22-acre NRG portion of the Potrero Power Plant site. A total of 34 soil vapor samples were collected from 29 probes within the Station A Area and analyzed for VOCs, TPH, naphthalene, methane, oxygen, and/or carbon dioxide. Benzene and naphthalene were the primary C identified in soil vapor, typically at less than 8 feet bgs, with the greatest concentrations located in the north/northeast portion of the Potrero Power Plant site, outside of the Station A Area boundary. Sample locations are shown on Figure C-3.

The greatest concentrations of benzene and naphthalene (0.288 micrograms per liter (μg/L) and 0.334 μg/L, respectively) detected within the Station A Area were at locations east of the Station A building within the area of the former peaker units (probes SV23, SV28 and SV57). Methane was not detected in soil vapor samples collected from within the Station A Area.

C2.4 Evaluation of Potential Human Health Risks

In summary, COCs in the Station A Area primarily consist of metals and PAHs, along with asbestos[2] that is predominantly associated with naturally occurring minerals (e.g., serpentinite). These COCs are associated with the poor quality fill throughout the Station A area (i.e., there is not a localized source area).

A site-specific human health risk assessment (HHRA) for the Station A Area was conducted using site data to evaluate the potential adverse health effects that may be associated with cumulative exposure to contaminants detected in site soil, groundwater, and soil vapor. The HHRA was approved by the Water Board in their letter to PG&E dated February 12, 2012.

The HHRA was completed following the protocols outlined in U.S. Environmental Protection Agency (EPA) guidance documents (e.g., Risk Assessment Guidance for Superfund [RAGS]). Specifically, to

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[1] California Regional Water Quality Control Board SF Bay Region, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, May 2008, Table B. Environmental Screening Levels (ESLs) Shallow Soils ($\leq$3 m bgs) Groundwater is not a Current or Potential Source of Drinking Water.

[2] The asbestos is likely associated with naturally occurring minerals in the soil, and to a lesser extent, debris present within the historical fill.

characterize non-carcinogenic health hazards, the non-cancer Hazard Indexes (HIs) were compared to U.S. EPA's acceptable HI of 1. To characterize excess carcinogenic health risks, the results were compared to the U.S. EPA's acceptable risk range of $1x10^{-6}$ to $1x10^{-4}$. Finally, estimated blood-lead levels were compared to Cal/EPA's Office of Environmental Health Hazard Assessment OEHHA benchmark of 1 microgram per deciliter. The results of the HHRA indicate that, based on existing industrial site land use and site conditions, potential exposures to COCs in soil, groundwater, and soil vapor do not present an unacceptable human health risk for current and future commercial/industrial workers, including occasional visitors, due to the presence of the existing site durable cover (AMEC, 2011). If Station A Area soil intrusive work (e.g., soil excavation) were to occur, or the existing durable cover (e.g., existing buildings and hardscape such as concrete/asphalt) were removed, there is the possibility of contact with COCs. Therefore, the results of the HHRA indicate that risk reduction and/or risk management measures are appropriate to mitigate potential health risks associated with exposures to COCs.

APPENDIX C – TABLES

Table C-1 Summary of Analytical Results for Inorganic Constituents in Soil Samples

Table C-2 Summary of Analytical Results for Polycyclic Aromatic Hydrocarbons (PAHs) in Soil Samples

Table C-3 Summary of Analytical Results for Polychlorinated Biphenyls (PCBs) in Soil Samples

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Table C-12 Summary of Analytical Results for Volatile Organic Compounds (VOCs) in Groundwater Samples

Table C-13 Summary of Analytical Results for Total Petroleum Hydrocarbons (TPH) in Groundwater Samples

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Table C-15 Summary of Analytical Results for Volatile Organic Compounds (VOCs) and Naphthalene in Soil Vapor Samples Analyzed Using EPA Method 8260B

Table C-16 Summary of Analytical Results for Volatile Organic Compounds (VOCs) and Naphthalene in Soil Vapor Samples Analyzed Using EPA Method TO-15

Table C-17 Summary of Analytical Results for Naphthalene and 2-Methylnaphthalene in Soil Vapor Samples Analyzed Using EPA Method TO-17

Table C-18 Summary of Analytical Results for Volatile Organic Compounds (VOCs) and Naphthalene in Soil Vapor Samples by Soil Vapor Probe

TABLE C-1

SUMMARY OF ANALYTICAL RESULTS FOR INORGANIC CONSTITUENTS IN SOIL SAMPLES[1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium (VI)	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16--Analytical results reported in dry weight																							
B-POT-1	2.5	2/28/1991	Primary	Fill	Unsaturated	<6.3	<0.53	**78**	<0.53	**2.8**	**26**	--	**6.1**	**29**	**44**	**0.64**	<1	**36**	<21	<1	<10	**27**	**41**
B-POT-1	9	2/28/1991	Primary	Bedrock	Unsaturated	<6.7	<0.56	<2.2	<0.56	**6.5**	**610**	--	**77**	**12**	<5.6	<0.11	<1.1	**1700**	<22	<1.1	<11	**18**	**39**
B-POT-2	4.5	2/27/1991	Primary	Bedrock	Unsaturated	<6.7	<0.56	<2.2	<0.56	**7.5**	**1700**	--	**84**	**15**	**6.3**	<0.11	<1.1	**1700**	<22	<1.1	<17	**36**	**31**
B-POT-2	6.5	2/27/1991	Primary	Bedrock	Unsaturated	<6.7	<0.56	<2.2	<0.56	**6.3**	**1600**	--	**89**	**20**	<5.6	<0.11	<1.1	**1700**	<22	<1.1	<17	**32**	**31**
B-POT-3	3.5	2/22/1991	Primary	Fill/Brown	Unsaturated	**16**	**95**	**320**	<0.57	**6.6**	**210**	--	**30**	**160**	**3400**	**1.9**	<1.1	**350**	<2.3	<1.1	<0.57	**43**	**530**
B-POT-3	6	2/22/1991	Primary	Fill/Green	Unsaturated	<6.7	**0.59**	**170**	<0.56	**3.5**	**200**	--	**29**	**72**	**20**	<0.11	<1.1	**520**	<0.56	<1.1	<0.56	**23**	**54**
B-POT-3	10	2/22/1991	Primary	Fill/Brown	Unsaturated	<8	<0.67	<2.7	<0.67	<0.67	<1.3	--	<2.7	<2.7	<6.7	<0.13	<1.3	<2.7	<0.67	<1.3	<0.67	<2.7	<1.3
B-POT-3	12	2/22/1991	Primary	Fill/Green	Saturated	<7.6	**2.8**	**99**	<0.63	**5.7**	**770**	--	**95**	**19**	**11**	<0.13	<1.3	**1300**	<0.63	<1.3	<0.63	**34**	**45**
POT-9	3.5	3/4/1991	Primary	Bedrock	Unsaturated	<7.5	<0.62	**6.3**	<0.62	**6.8**	**970**	--	**95**	**16**	**10**	<0.12	<1.2	**2300**	<25	<1.2	<19	**23**	**33**
POT-9	5.5	3/4/1991	Primary	Bedrock	Unsaturated	<7	<0.59	**2.7**	<0.59	**6.7**	**1200**	--	**76**	**9.5**	**10**	<0.12	<1.2	**1600**	<24	<1.2	<12	**24**	**27**
POT-9	10	3/4/1991	Primary	Bedrock	Unsaturated	<7.5	<0.62	**6.3**	<0.62	**6.7**	**490**	--	**94**	**14**	**8.2**	<0.12	<1.2	**2100**	<25	<1.2	<12	**17**	**58**
POT-9	25	3/4/1991	Primary	Bedrock	Saturated	**15**	<0.56	<2.2	<0.56	**6.4**	**1900**	--	**77**	**10**	**6.8**	<0.11	<1.1	**1800**	<22	<1.1	<11	**35**	**33**
POT-14	3.5	3/5/1991	Primary	Fill/Brown	Unsaturated	<7	<0.58	<2.3	<0.58	**4**	**160**	--	**70**	**5.8**	**8**	<0.12	<1.2	**2200**	<23	<1.2	<17	**15**	**45**
POT-14	6	3/5/1991	Primary	Interface	Saturated	<6.7	<0.56	<2.2	<0.56	**4.6**	**600**	--	**58**	**9.8**	<5.6	<0.11	<1.1	**1300**	<22	<1.1	<17	**15**	**26**
POT-14	20.5	3/5/1991	Primary	Bedrock	Saturated	<7.9	<0.66	**2.9**	<0.66	**5.4**	**760**	--	**62**	**9.6**	<6.6	<0.13	<1.3	**1500**	<26	<1.3	<20	**16**	**30**
POT-15	3.5	3/1/1991	Primary	Fill	Unsaturated	<6.8	**1.9**	**48**	<0.57	**3.3**	**59**	--	**12**	**7.9**	**17**	<0.11	<1.1	**50**	<23	<1.1	<11	**52**	**33**
POT-15	5.5	3/1/1991	Primary	Fill	Unsaturated	<6.3	**3.5**	**74**	<0.53	**2.5**	**19**	--	**4.4**	**180**	**140**	**0.47**	<1	**21**	<21	<1	<10	**20**	**99**
POT-15	8.5	3/1/1991	Primary	Fill	Unsaturated	<7.4	**3.4**	**220**	<0.62	**7.4**	**160**	--	**25**	**61**	**56**	<0.12	<1.2	**270**	<25	<1.2	<12	**60**	**140**
POT-15	16.5	3/1/1991	Primary	Fill	Saturated	<10	**2.4**	**66**	<0.88	**1.5**	**25**	--	**5.1**	**24**	<8.8	<0.18	<1.8	**55**	<35	<1.8	<18	**12**	**22**
SS-APT-1	0.5	2/25/1991	Primary	Fill	Unsaturated	<6.1	**2.7**	**92**	<0.51	**3.4**	**65**	--	**11**	**62**	**400**	**0.26**	<1.0	**110**	**130**	<1.0	<10	**48**	**320**
SS-POT-1	0.5	3/1/1991	Primary	Fill	Unsaturated	<6.7	**2.5**	**56**	<0.56	**3.2**	**110**	--	**19**	**30**	**99**	<0.11	<1.1	**340**	<22	<1.1	<11	**92**	**86**
SS-POT-3	0.5	3/5/1991	Primary	Fill	Unsaturated	<7	**5.4**	**220**	<0.59	**2.4**	**48**	--	**8.8**	**40**	**130**	**1.2**	<1.2	**150**	<24	<1.2	<18	**95**	**200**
SS-POT-6	0.5	3/5/1991	Primary	Fill	Unsaturated	<6.5	**12**	**240**	**1.8**	**3.4**	**91**	--	**13**	**98**	**120**	**0.38**	<1.1	**240**	<22	<1.1	<16	**240**	**180**
PG&E, Technical and Ecological Services (TES), 1991, Soil Investigation Resutls For Diesel Dump Tank and Associated Piping Replacement Project, Potrero Power Plant, June[2]																							
TES-SB1	8.0	4/29/1991	Primary	Bedrock	Unsaturated	--	<0.4	--	--	--	--	--	--	--	**17**	<0.05	--	--	--	--	--	--	--
TES-SB2	3.5	4/29/1991	Primary	Fill	Unsaturated	--	**2.8**	--	--	--	--	--	--	--	**100**	**1.2**	--	--	--	--	--	--	--
TES-SB3	2.5	4/29/1991	Primary	Fill	Unsaturated	--	**7.4**	--	--	--	--	--	--	--	**23**	**0.1**	--	--	--	--	--	--	--
TES-SB4	2.5	4/29/1991	Primary	Fill	Unsaturated	--	**4.1**	--	--	--	--	--	--	--	**360**	**0.17**	--	--	--	--	--	--	--
TES-SB5	2.5	4/29/1991	Primary	Bedrock	Unsaturated	--	<0.4	--	--	--	--	--	--	--	**15**	<0.05	--	--	--	--	--	--	--
TES-SB6	2.0	4/29/1991	Primary	Bedrock	Unsaturated	--	<0.4	--	--	--	--	--	--	--	**18**	<0.05	--	--	--	--	--	--	--
TES-SB7	2.5	4/30/1991	Primary	Bedrock	Unsaturated	--	<0.8	--	--	--	--	--	--	--	**130**	**0.06**	--	--	--	--	--	--	--
TES-SB8	2.5	4/30/1991	Primary	Bedrock	Unsaturated	--	<0.8	--	--	--	--	--	--	--	**17**	<0.05	--	--	--	--	--	--	--
TES-SB9	2.5	4/30/1991	Primary	Bedrock	Unsaturated	--	**0.9**	--	--	--	--	--	--	--	**37**	<0.05	--	--	--	--	--	--	--
TES-SB10	2.5	4/30/1991	Primary	Bedrock	Unsaturated	--	<0.4	--	--	--	--	--	--	--	**14**	<0.05	--	--	--	--	--	--	--
TES-SB11	3.0	4/30/1991	Primary	Bedrock	Unsaturated	--	<0.4	--	--	--	--	--	--	--	**17**	<0.05	--	--	--	--	--	--	--
TES-SB12	3.0	4/30/1991	Primary	Bedrock	Unsaturated	--	<0.4	--	--	--	--	--	--	--	**14**	<0.05	--	--	--	--	--	--	--
TES-SB13	3.0	4/30/1991	Primary	Fill	Unsaturated	--	**3.0**	--	--	--	--	--	--	--	**6**	<0.05	--	--	--	--	--	--	--
TES-SB14	3.0	4/30/1991	Primary	Fill	Unsaturated	--	**3.1**	--	--	--	--	--	--	--	**22**	**0.06**	--	--	--	--	--	--	--
TES-SB15	3.0	4/30/1991	Primary	Fill	Unsaturated	--	**1.9**	--	--	--	--	--	--	--	**9**	<0.05	--	--	--	--	--	--	--
TES-SB16	3.0	4/30/1991	Primary	Fill	Unsaturated	--	**2.8**	--	--	--	--	--	--	--	**14**	**0.1**	--	--	--	--	--	--	--
TES-SB17	3.0	4/30/1991	Primary	Fill	Unsaturated	--	**2.6**	--	--	--	--	--	--	--	**10**	**0.33**	--	--	--	--	--	--	--
TES-SB18	8.5	4/30/1991	Primary	Fill	Unsaturated	--	**5.9**	--	--	--	--	--	--	--	**79**	**0.19**	--	--	--	--	--	--	--
TES-SB19	7.5	4/30/1991	Primary	Fill	Unsaturated	--	**1.5**	--	--	--	--	--	--	--	**20**	<0.05	--	--	--	--	--	--	--
TES-SB20	4.0	4/30/1991	Primary	Fill	Unsaturated	--	**2.4**	--	--	--	--	--	--	--	**35**	**0.07**	--	--	--	--	--	--	--
TES-SB21	3.0	4/30/1991	Primary	Bedrock	Unsaturated	--	<0.8	--	--	--	--	--	--	--	**19**	<0.05	--	--	--	--	--	--	--
TES-SB22	3.0	4/30/1991	Primary	Fill	Unsaturated	--	**3**	--	--	--	--	--	--	--	**61**	**0.11**	--	--	--	--	--	--	--
TES-SB23	3.0	4/30/1991	Primary	Fill	Unsaturated	--	**2.1**	--	--	--	--	--	--	--	**9**	<0.05	--	--	--	--	--	--	--

TABLE C-1

SUMMARY OF ANALYTICAL RESULTS FOR INORGANIC CONSTITUENTS IN SOIL SAMPLES[1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium (VI)	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
TES-SB24	3.0	4/30/1991	Primary	Fill	Unsaturated	--	**2.4**	--	--	--	--	--	--	--	**14**	<0.05	--	--	--	--	--	--	--
TES-SB25	3.0	4/30/1991	Primary	Fill	Unsaturated	--	**2.3**	--	--	--	--	--	--	--	**45**	**0.14**	--	--	--	--	--	--	--
TES-SB26	9.0	4/30/1991	Primary	Fill	Unsaturated	--	**1.8**	--	--	--	--	--	--	--	**9**	<0.05	--	--	--	--	--	--	--
TES-SB27	3.0	4/30/1991	Primary	Fill	Unsaturated	--	**2.0**	--	--	--	--	--	--	--	**22**	**0.06**	--	--	--	--	--	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June--Analytical results reported in wet weight																							
TB1-001	1	12/8/1997	Primary	Fill/Brown	Unsaturated	<6	**4.5**	**81.5**	<0.5	<2	**67.6**	--	**9.74**	**51.8**	**281**	**0.176**	<10	**130**	**1.4**	<2	<1	**50.9**	**70.3**
TB1-001	6	12/8/1997	Primary	Fill/Green	Unsaturated	<6	**2.6**	**39.3**	<0.5	<2	**394**	--	**41.9**	**36.4**	**4.12**	**0.086**	<10	**585**	**2.1**	<2	<2	**66.3**	**64.1**
TB1-001	11	12/8/1997	Primary	Bedrock	Unsaturated	<6	**1**	<20	<0.5	<2	**504**	--	**147**	**5.98**	**1.7**	**0.056**	<10	**1460**	**2**	<2	<2	**34.8**	**35.8**
TB1-002	1	12/4/1997	Primary	Fill/Green	Unsaturated	<6	**5.8**	**291**	**0.55**	<2	**148**	--	**25.3**	**43.2**	**327**	**0.17**	<10	**317**	**2**	<2	<1	**54.1**	**90.3**
TB1-002	1	12/4/1997	Duplicate	Fill/Green	Unsaturated	<6	**4.5**	**201**	<0.5	<2	**68.1**	--	**18.2**	**49.2**	**205**	**0.191**	<10	**128**	**1.7**	<2	<1	**62.4**	**94.2**
TB1-002	6	12/9/1997	Primary	Fill/Green	Unsaturated	<6	**2.2**	**43.1**	<0.5	<2	**751**	--	**65.8**	**18.7**	**18.9**	**0.081**	<10	**1310**	**3**	<2	<1	**27.1**	**29.3**
TB1-002	6	12/9/1997	Duplicate	Fill/Green	Unsaturated	<6	<0.5	<20	<0.5	<2	**848**	--	**75.4**	**15.9**	<0.4	<0.05	<10	**1550**	**2.8**	<2	<1	**20.8**	**18.5**
TB1-002	11	12/9/1997	Primary	Fill/Green	Unsaturated	<6	**0.6**	<20	<0.5	<2	**843**	--	**95.5**	**20.2**	<0.4	<0.05	<10	**1680**	**4.2**	<2	<1	**31.5**	**32.1**
TB1-002	16	12/9/1997	Primary	Fill/Green	Saturated	<6	**4.8**	**61.6**	<0.5	<2	**146**	--	**21**	**47.6**	**370**	**0.119**	<10	**137**	**3.6**	<2	<1	**60.5**	**59.3**
TB1-002	22	12/9/1997	Primary	Fill/Green	Saturated	<6	**4.8**	**57.9**	<0.5	<2	**127**	--	**12.9**	**28.9**	**28**	**0.07**	<10	**192**	**1.9**	<2	<1	**27.6**	**36**
TB1-003	1	11/25/1997	Primary	Fill	Unsaturated	<6	**5.8**	**70**	**0.64**	<2	**52**	--	**10.2**	**37.4**	**290**	**0.353**	<10	**60.4**	<1	<2	<1	**41.2**	**92.7**
TB1-003	9	12/10/1997	Primary	Fill/Green	Unsaturated	<6	**1.4**	**40**	<0.5	<2	**537**	--	**55.6**	**22**	**8.82**	<0.05	<10	**1100**	**2.1**	<2	<2	**33.7**	**25.6**
TB1-003	13	12/10/1997	Primary	Fill/Green	Saturated	<6	**3**	**79.4**	<0.5	<2	**195**	--	**26.2**	**18.6**	**4.25**	**0.068**	<10	**367**	**2.2**	<2	<1	**35**	**36.3**
TB1-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	<6	**4.6**	**380**	<0.5	<2	**42.9**	--	**15**	**82.9**	**69.3**	**0.382**	<10	**60.4**	**2**	<2	<1	**49.1**	**106**
TB1-008	6	12/4/1997	Primary	Fill/Brown	Unsaturated	<6	**4.3**	**66.5**	<0.5	<2	**61.2**	--	**11.9**	**8.71**	**19.6**	**0.087**	<10	**51.7**	**1.8**	<2	<1	**52.3**	**37.8**
TB1-008	11	12/4/1997	Primary	Fill/Green	Unsaturated	<6	<0.5	<20	<0.5	<2	**748**	--	**69**	**15.2**	<0.4	<0.05	<10	**1180**	**1.6**	<2	<2	**25.3**	**24.1**
TB1-009	1	10/15/1997	Primary	Fill	Unsaturated	<6	**6**	**107**	<0.5	<2	**285**	--	**33.4**	**75.4**	**40.1**	**0.434**	<10	**462**	<1	<2	<1	**45.4**	**84.6**
TB1-009	8	10/15/1997	Primary	Fill	Unsaturated	<6	**2.5**	**202**	**0.58**	<2	**126**	--	**20.3**	**23.1**	**8.85**	<0.05	<10	**145**	<1	<2	<1	**24.9**	**16.6**
TB1-009	15	10/15/1997	Primary	Fill	Saturated	<6	**2**	**68.1**	<0.5	<2	**90.8**	--	**7.88**	**13.9**	**16.1**	**0.09**	<10	**128**	<1	<2	<1	**15.8**	**14.5**
TB1-009	20	10/15/1997	Primary	Fill	Saturated	<6	**2.5**	<20	<0.5	<2	**461**	--	**60.5**	**20**	**10.4**	<0.05	<10	**1050**	<1	<2	<1	**22.9**	**17.9**
TB1-009	25	10/23/1997	Primary	Bedrock	Saturated	<6	**1.2**	**34.4**	<0.5	<2	**1180**	--	**89.1**	**21.8**	**0.53**	<0.05	<10	**1630**	**1.1**	<2	<1	**30.3**	**20.1**
TB1-009	25	10/23/1997	Duplicate	Bedrock	Saturated	<6	**1.4**	**45.1**	<0.5	<2	**755**	--	**64.6**	**12.6**	**0.6**	<0.05	<10	**1640**	**1.6**	<2	<1	**12.4**	**13.8**
TB1-010	1	12/9/1997	Primary	Fill/Brown	Unsaturated	<6	**3.7**	**928**	**0.61**	<2	**25.2**	--	**13.3**	**98.7**	**9.25**	<0.05	<10	**41.5**	**3.6**	<2	<1	**47.5**	**53.5**
TB1-010	6	12/9/1997	Primary	Fill	Unsaturated	<6	**4**	**197**	<0.5	<2	**35.3**	--	**6.01**	**54.1**	**258**	**0.442**	<10	**48.3**	**1.3**	<2	<1	**28.2**	**115**
TB1-010	11	12/9/1997	Primary	Fill	Unsaturated	<6	**4.4**	**105**	<0.5	<2	**12.4**	--	<5	**52.2**	**40.1**	<0.05	<10	**19.5**	<1	<2	<1	**39.2**	**72.3**
TB1-011	1	12/9/1997	Primary	Fill/Brown	Unsaturated	<6	**3.7**	**748**	**0.59**	<2	**73.8**	--	**18.4**	**82.9**	**32.5**	<0.05	<10	**137**	**3.5**	<2	<1	**51.4**	**67**
TB1-011	1	12/9/1997	Duplicate	Fill/Brown	Unsaturated	<6	**3.5**	**821**	**0.59**	<2	**43**	--	**14.7**	**86.4**	**17.4**	<0.05	<10	**77.2**	**3.5**	<2	<1	**50.3**	**57.7**
TB1-011	9	12/9/1997	Primary	Bedrock	Unsaturated	<6	**0.6**	<20	<0.5	<2	**1020**	--	**75.2**	**15.6**	<0.4	<0.05	<10	**1500**	**2.5**	<2	<1	**44.8**	**16**
TB1-011	13	12/9/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**1180**	--	**78.7**	**19.8**	<0.4	<0.05	<10	**1400**	**3.1**	<2	<2	**39.5**	**15.7**
TB1-012	1	11/25/1997	Primary	Fill/Green	Unsaturated	<6	**4.5**	**130**	<0.5	<2	**61.7**	--	**14.2**	**32.7**	**14.7**	**0.178**	<10	**88.1**	<1	<2	<1	**38.2**	**44.1**
TB1-012	1	12/8/1997	Primary	Fill/Green	Unsaturated	<6	**0.8**	<20	<0.5	<2	**609**	--	**69.2**	**13.2**	**11.3**	<0.05	<10	**1430**	**1.6**	<2	<2	**19.2**	**30.7**
TB1-012	1	12/8/1997	Duplicate	Fill/Green	Unsaturated	<6	<0.5	<20	<0.5	<2	**972**	--	**69.9**	**12**	**12.5**	<0.05	<10	**1390**	**1.7**	<2	<2	**23.7**	**31.8**
TB1-012	6	12/8/1997	Primary	Fill/Green	Unsaturated	<6	**1.4**	**85.9**	<0.5	<2	**483**	--	**63**	**11.3**	**2.9**	<0.05	<10	**954**	**2.4**	<2	<1	**33.3**	**30.5**
TB1-012	10	12/8/1997	Primary	Fill/Green	Unsaturated	<6	**16.8**	**205**	**0.6**	<2	**19.2**	--	<5	**23.3**	**9.85**	<0.05	<10	**33.1**	**3.7**	<2	<1	**21.4**	**51.9**
TB2-001	1	11/26/1997	Primary	Fill/Green	Unsaturated	<6	**1.7**	**61.6**	<0.5	<2	**597**	--	**46.9**	**72.1**	**93.9**	**0.374**	<10	**843**	<1	<2	<1	**29.5**	**74.2**
TB2-001	1	11/26/1997	Duplicate	Fill/Green	Unsaturated	<6	**1.8**	**65.6**	<0.5	<2	**549**	--	**44.3**	**65.5**	**87.8**	**0.742**	<10	**823**	<1	<2	<1	**28.9**	**70.9**
TB2-001	7	11/26/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**479**	--	**61.8**	**14.3**	**0.6**	**0.057**	<10	**1240**	<1	<2	<1	**11.8**	**9.57**
TB2-001	12	11/26/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**835**	--	**72.5**	**15.7**	<0.4	<0.05	<10	**1410**	<1	<2	<1	**20.8**	**10.9**
TB2-002	1	11/26/1997	Primary	Fill/Brown	Unsaturated	<6	**2.4**	**57.8**	<0.5	<2	**61.5**	--	**8.5**	**12.8**	**27.7**	**0.083**	<10	**101**	<1	<2	<1	**27.1**	**35.4**
TB2-002	7	11/26/1997	Primary	Fill/Green	Unsaturated	<6	<0.5	<20	<0.5	<2	**755**	--	**59.9**	**15.6**	<0.4	<0.05	<10	**1100**	<1	<2	<1	**26.4**	**18**
TB2-002	12	11/26/1997	Primary	Fill/Green	Unsaturated	<6	<0.5	<20	<0.5	<2	**1480**	--	**103**	**21.3**	<0.4	<0.05	<10	**1850**	<1	<2	<1	**33.8**	**19.3**
TB2-003	1	12/2/1997	Primary	Fill/Green	Unsaturated	<6	**3.7**	**117**	<0.5	<2	**282**	<0.1	**27.6**	**82.2**	**155**	**0.298**	<10	**501**	**1.6**	<2	<1	**39.2**	**102**
TB2-003	6	12/2/1997	Primary	Bedrock	Unsaturated	<6	<0.5	**24.1**	<0.5	<2	**579**	<0.1	**61.8**	**45.4**	**4.83**	<0.05	<10	**1070**	**2.1**	<2	<1	**22.5**	**54.5**
TB2-003	10	12/2/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**147**	<0.1	**39.7**	**24.1**	<0.4	<0.05	<10	**1040**	**1.3**	<2	<1	**8.32**	**22.7**

TABLE C-1

SUMMARY OF ANALYTICAL RESULTS FOR INORGANIC CONSTITUENTS IN SOIL SAMPLES[1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium (VI)	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
TB2-004	2	11/26/1997	Primary	Fill	Unsaturated	<6	**3.3**	**343**	<0.5	<2	**366**	--	**76.3**	**61.4**	**59.2**	**0.298**	<10	**1710**	<1	<2	<1	**812**	**87.7**
TB2-004	6	11/26/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**567**	--	**46.6**	**21.7**	<0.4	<0.05	<10	**903**	<1	<2	<1	**20.5**	**6.82**
TB2-004	10	11/26/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**903**	--	**55.5**	**7.76**	<0.4	<0.05	<10	**1170**	<1	<2	<1	**26**	**8**
TB2-004	10	11/26/1997	Duplicate	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**1160**	--	**88.6**	**22**	<0.4	<0.05	<10	**1500**	<1	<2	<1	**28.6**	**20.5**
TB2-005	1	11/21/1997	Primary	Fill/Green	Unsaturated	<6	**4.1**	**113**	<0.5	<2	**175**	--	**33.6**	**39.3**	**32.1**	**0.12**	<10	**620**	<1	<2	<1	**106**	**76**
TB2-005	6	11/25/1997	Primary	Bedrock	Unsaturated	<6	<0.5	**25.9**	<0.5	<2	**656**	--	**66.3**	**54.7**	**4.8**	**0.097**	<10	**1300**	<1	<2	<1	**36.7**	**28.6**
TB2-005	6	11/25/1997	Duplicate	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**580**	--	**57.6**	**14.4**	<0.4	<0.05	<10	**1220**	<1	<2	<1	**25.1**	**12.3**
TB2-005	10	11/25/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**646**	--	**67.1**	**8.47**	<0.4	<0.05	<10	**1200**	<1	<2	<1	**21.6**	**14.8**
TB2-006	1	11/21/1997	Primary	Fill/Brown	Unsaturated	<6	**6.7**	**77.3**	<0.5	<2	**56.8**	--	**10.4**	**34.5**	**24.7**	<0.05	<10	**79.7**	<1	<2	<1	**58.9**	**92.1**
TB2-006	6	11/21/1997	Primary	Fill	Unsaturated	<6	<0.5	<20	<0.5	<2	**480**	--	**65.9**	**26.8**	**1.77**	<0.05	<10	**1410**	<1	<2	**1.21**	**24.1**	**28.7**
TB2-006	10	11/21/1997	Primary	Bedrock	Unsaturated	<6	**1.3**	<20	<0.5	<2	**94.9**	--	**80.9**	**7.17**	<0.4	<0.05	<10	**1770**	<1	<2	**1.32**	**17.2**	**31.7**
TB4-002	1	12/8/1997	Primary	Fill/Brown	Unsaturated	<6	**3.7**	**149**	<0.5	<2	**126**	--	**17.5**	**58.7**	**330**	**0.558**	<10	**186**	**1.8**	<2	<1	**27.5**	**78.1**
TB4-002	1	12/8/1997	Duplicate	Fill/Brown	Unsaturated	<6	**3.6**	**222**	<0.5	<2	**90.4**	--	**15**	**88.4**	**231**	**0.785**	<10	**136**	**1.9**	<2	<1	**32.2**	**87.5**
TB4-002	6	12/8/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**1280**	--	**76.4**	**13.6**	<0.4	<0.05	<10	**1520**	**1.6**	<2	<2	**30.8**	**18.2**
TB4-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	<6	**2.1**	**77.2**	<0.5	<2	**482**	--	**44.5**	**25.3**	**219**	**0.942**	<10	**805**	<1	<2	<1	**36**	**69.6**
TB4-003	7	11/26/1997	Primary	Fill/Green	Saturated	<6	**1.8**	**81.6**	<0.5	<2	**610**	--	**50**	**22**	**196**	**0.38**	<10	**924**	<1	<2	<1	**30.5**	**63.5**
TB4-003	12	12/1/1997	Primary	Bedrock	Saturated	<6	<0.5	<20	<0.5	<2	**492**	--	**74.8**	**6.61**	<0.4	<0.05	<10	**1390**	**2.4**	<2	<1	**7.79**	**9.56**
TB4-004	1	12/8/1997	Primary	Fill/Brown	Unsaturated	<6	**5.2**	**38.4**	<0.5	<2	**426**	--	**37.2**	**23.2**	**311**	**0.514**	<10	**695**	**1.7**	<2	<1	**39.3**	**81.8**
TB4-004	7	12/8/1997	Primary	Interface	Unsaturated	<6	**1.8**	**57.8**	<0.5	<2	**624**	--	**51.7**	**23.6**	**101**	**1.7**	<10	**1050**	**1.7**	<2	<1	**32.6**	**94.5**
TB4-004	11	12/8/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**1390**	--	**77**	**14.9**	<0.4	<0.05	<10	**1860**	**1.6**	<2	<3	**39.2**	**10.6**
TB4-005	1	12/3/1997	Primary	Fill/Brown	Unsaturated	<6	**1.1**	**96.2**	<0.5	<2	**663**	--	**66**	**22.1**	**112**	**0.216**	<10	**1250**	**3.5**	<2	<1	**27.9**	**97.3**
TB4-005	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	<6	**1.4**	**96.9**	<0.5	<2	**790**	--	**68.2**	**27.5**	**69.8**	**0.181**	<10	**1300**	**3.6**	<2	**1.06**	**31**	**219**
TB4-005	6	12/3/1997	Primary	Bedrock	Unsaturated	**7.5**	<0.5	<20	<0.5	<2	**1230**	--	**89.7**	**8.15**	<0.4	<0.05	<10	**1940**	**4.1**	<2	<1	**35.7**	**33**
TB4-005	10	12/3/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**327**	--	**41.9**	**5.86**	<0.4	<0.05	<10	**771**	**3.1**	<2	<1	**15.6**	**11.5**
TB4-005	15	12/3/1997	Primary	Bedrock	Saturated	<6	<0.5	<20	<0.5	<2	**673**	--	**70.9**	**24.2**	<0.4	<0.05	<10	**1210**	**2.9**	<2	<1	**18.2**	**37.9**
TB4-006	1	12/3/1997	Primary	Fill/Brown	Unsaturated	<6	**2.7**	**166**	<0.5	<2	**626**	--	**52.2**	**33**	**115**	**0.299**	<10	**995**	**2**	<2	<2	**34.4**	**78.3**
TB4-006	6	12/3/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**872**	--	**66.7**	**14.4**	**7.53**	**0.167**	<10	**1310**	**1.5**	<2	<2	**27.8**	**19.9**
TB4-006	10	12/3/1997	Primary	Bedrock	Unsaturated	<6	**0.6**	<20	<0.5	<2	**676**	--	**70.5**	**15.9**	**0.76**	<0.05	<10	**1380**	**2.4**	<2	<2	**27.8**	**23**
TB4-006	15	12/3/1997	Primary	Bedrock	Saturated	<6	**2.5**	**86.2**	<0.5	<2	**437**	--	**38.2**	**17.2**	**3.18**	<0.05	<10	**609**	**3**	<2	<1	**41.6**	**35.4**
TB4-007	2	12/8/1997	Primary	Fill/Brown	Unsaturated	<6	**14.4**	**310**	**0.53**	<2	**151**	--	**21.7**	**79.1**	**216**	**0.928**	<10	**304**	**1.8**	<2	<1	**44.6**	**137**
TB4-007	6	12/8/1997	Primary	Fill/Brown	Unsaturated	<6	**14.1**	**282**	**0.58**	<2	**183**	--	**22.3**	**90.3**	**289**	**0.475**	<10	**362**	**2.2**	<2	<1	**55.9**	**200**
TB4-007	20	12/8/1997	Primary	Bedrock	Saturated	<6	**22**	**84.4**	<0.5	<2	**8.78**	--	**8.72**	**67.8**	**152**	**0.264**	<10	**20.9**	**11.1**	<2	<2	**14**	**72.7**
TB4-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	**54.7**	**9.8**	**172**	<0.5	<2	**263**	<0.1	**21.1**	**83.7**	**922**	**0.963**	<10	**396**	**2.5**	<2	<1	**50.3**	**473**
TB4-008	1	12/4/1997	Duplicate	Fill/Brown	Unsaturated	<6	**11.3**	**164**	<0.5	<2	**192**	<0.1	**16.3**	**552**	**348**	**0.863**	<10	**301**	**2.8**	<2	<1	**51.4**	**461**
TB4-008	4	12/4/1997	Primary	Fill/Green	Unsaturated	<6	**2.5**	**28.5**	<0.5	<2	**9.09**	<0.1	<5	**69.6**	**21.1**	**0.389**	<10	**11.1**	<1	<2	<1	<5	**120**
TB4-008	6	12/4/1997	Primary	Fill	Unsaturated	<6	**4**	**481**	**0.65**	<2	**16.1**	<0.1	<5	**41.2**	**2.77**	<0.05	<10	**12.1**	**1.9**	<2	<1	**45.2**	**52.1**
TB4-008	10	12/4/1997	Primary	Fill	Unsaturated	<6	**2.8**	**576**	**1.16**	<2	**8.55**	<0.1	<5	**50.5**	**17.1**	<0.05	<10	**31.2**	<1	<2	<1	**24.1**	**27.3**
TB4-008	15	12/4/1997	Primary	Fill	Saturated	<6	**24.5**	**466**	**4.27**	<2	**13.8**	<0.1	**15.5**	**67.3**	**71.5**	**0.055**	<10	**44.3**	**2.6**	<2	<2	**47.1**	**64.7**
TB4-008	20	12/4/1997	Primary	Fill/Green	Saturated	<6	**2.4**	**150**	<0.5	<2	**57.5**	<0.1	**5.38**	**17.2**	**74.5**	**0.062**	<10	**93.9**	<1	<2	<1	**15.8**	**22.9**
TB4-008	30	12/4/1997	Primary	Fill/Brown	Saturated	<6	**2.9**	**20.3**	<0.5	<2	**53**	<0.1	**7.28**	**6.01**	**23.1**	<0.05	<10	**79**	<1	<2	<1	**16.2**	**15.3**
TB4-009	1	12/2/1997	Primary	Fill/Brown	Unsaturated	<6	**10.8**	**121**	<0.5	<2	**281**	<0.1	**30.8**	**52.8**	**118**	**0.44**	<10	**547**	**2**	<2	<1	**39**	**96.4**
TB4-009	1	12/2/1997	Duplicate	Fill/Brown	Unsaturated	<6	**9.9**	**169**	<0.5	<2	**318**	<0.1	**32.6**	**78.5**	**160**	**0.35**	<10	**564**	**1.9**	<2	<1	**48.9**	**112**
TB4-009	6	12/2/1997	Primary	Fill/Brown	Unsaturated	<6	**19.1**	**129**	<0.5	<2	**270**	<0.1	**31.6**	**43.9**	**102**	**0.281**	<10	**512**	**1.6**	<2	<1	**38.1**	**89.6**
TB4-009	11	12/2/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**956**	<0.1	**69.6**	**30.2**	<0.4	<0.05	<10	**2310**	**2.8**	<2	<1	**35.7**	**27.6**
TB4-009	16	12/2/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**175**	<0.1	**51.8**	**9.62**	<0.4	<0.05	<10	**1160**	**2.5**	<2	<1	**8.38**	**11.7**
TB4-009	21	12/2/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	**712**	<0.1	**86.8**	**29.7**	<0.4	<0.05	<10	**1580**	**2.8**	<2	<1	**23.3**	**34.7**
TB4-010	1	12/2/1997	Primary	Fill/Green	Unsaturated	<6	**5.7**	**44.7**	<0.5	<2	**239**	<0.1	**27.6**	**67.6**	**130**	**0.269**	<10	**407**	**2.5**	<2	<1	**40.3**	**71.3**
TB4-010	6	12/2/1997	Primary	Fill/Green	Unsaturated	<6	**0.8**	**20**	<0.5	<2	**466**	<0.1	**60.2**	**21.7**	**22.7**	**0.075**	<10	**1070**	**2.5**	<2	<1	**24.7**	**28**
TB4-010	10	12/3/1997	Primary	Fill/Green	Unsaturated	<6	**4.5**	**20.3**	<0.5	<2	**447**	<0.1	**42.5**	**34.8**	**66.6**	**0.067**	<10	**734**	**2.6**	<2	<1	**28.5**	**51.5**

TABLE C-1

SUMMARY OF ANALYTICAL RESULTS FOR INORGANIC CONSTITUENTS IN SOIL SAMPLES[1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium (VI)	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
TB4-011	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	<6	6.9	285	<0.5	<2	124	<0.1	31.2	214	791	0.844	<10	286	3.5	<2	<1	139	307
TB4-011	1	12/3/1997	Primary	Fill/Brown	Unsaturated	<6	4.7	141	<0.5	<2	131	<0.1	18.2	191	478	0.567	<10	202	3.4	<2	<1	163	265
TB4-011	6	12/3/1997	Primary	Fill/Green	Unsaturated	<6	1.9	491	0.86	<2	246	<0.1	18.7	38.3	16.1	0.155	<10	324	2.1	<2	<1	42.9	46.2
TB4-011	11	12/3/1997	Primary	Fill/Green	Unsaturated	<6	2.8	619	1.11	<2	127	<0.1	18.3	118	128	1.66	<10	222	2	<2	<1	36.8	59.9
TB4-011	21	12/3/1997	Primary	Fill	Saturated	<6	1.3	59.1	<0.5	<2	288	<0.1	22.8	44.3	25.7	<0.05	<10	418	1.4	<2	<1	36	35.3
TB4-011	26	12/3/1997	Primary	Bedrock	Saturated	<6	<0.5	<20	<0.5	<2	1100	<0.1	82.7	13.2	<0.4	<0.05	<10	1670	2.8	<2	<1	24.7	14.9
TB4-012	3	12/1/1997	Primary	Fill/Green	Unsaturated	<6	7	729	1.13	<2	52.4	--	9.3	36.7	4.95	<0.05	<10	64.9	1.3	<2	<1	31.9	41.8
TB4-012	6	12/1/1997	Primary	Fill/Green	Unsaturated	<6	<0.5	<20	<0.5	<2	3.45	--	<5	2.96	0.44	<0.05	<10	<4	<1	<2	<1	<5	4.23
TB4-012	10	12/1/1997	Primary	Fill/Green	Unsaturated	<6	3.3	54.8	<0.5	<2	410	--	42.8	12.3	2.39	<0.05	<10	681	3.2	<2	<1	45.5	35.2
TB4-013	1	12/1/1997	Duplicate	Fill/Brown	Unsaturated	<6	3.2	48.4	<0.5	<2	588	--	45.7	21.7	70.3	0.565	<10	876	2.5	<2	<1	44.8	73.6
TB4-013	1	12/1/1997	Primary	Fill/Brown	Unsaturated	<6	2.4	74.9	<0.5	<2	733	--	65.9	42.4	100	0.59	<10	1330	3	<2	<1	41.7	96.8
TB4-013	6	12/1/1997	Primary	Fill/Brown	Saturated	<6	2	84.8	<0.5	<2	347	--	37.9	29	49.7	0.388	<10	709	1.8	<2	<1	30.8	58.2
TB4-013	11	12/1/1997	Primary	Bedrock	Saturated	<6	4.7	41.6	<0.5	<2	224	--	27.7	17.3	40.8	0.682	<10	499	1.5	<2	<1	27.3	36.7
TB4-014	1	12/3/1997	Primary	Fill/Brown	Unsaturated	16.6	46.4	233	0.57	<2	140	--	17.9	79.6	606	1.49	<10	300	3.5	<2	<1	106	183
TB4-014	6	12/3/1997	Primary	Fill/Brown	Unsaturated	<6	4.2	106	0.61	<2	4.85	--	<5	210	1840	<0.05	<10	16.9	2.4	<2	<1	16.2	237
TB4-014	11	12/3/1997	Primary	Fill/Brown	Unsaturated	<6	4.1	188	<0.5	<2	73	--	8.24	16.3	14.1	0.062	<10	132	1.4	<2	<1	22.2	13.9
TB4-014	21	12/3/1997	Primary	Bedrock	Saturated	<6	1.3	48	<0.5	<2	478	--	45.3	101	7.23	0.055	<10	911	1.8	<2	<1	25.8	70.8
TB4-015	1	12/1/1997	Primary	Fill	Unsaturated	<6	8.9	101	<0.5	<2	78.9	--	10.2	128	185	0.652	<10	139	1.7	<2	<1	38.4	128
TB4-015	6	12/1/1997	Primary	Fill	Unsaturated	<6	2	319	0.72	<2	<3	--	<5	73.5	5.76	<0.05	<10	6.8	<1	<2	<1	26.6	102
TB4-015	11	12/2/1997	Primary	Fill	Unsaturated	<6	0.6	196	<0.5	<2	<3	--	<5	5.91	225	<0.05	<10	<4	<1	<2	<1	9.21	40.1
TB4-015	20	12/2/1997	Primary	Fill/Brown	Saturated	<6	2.3	335	0.69	<2	8.66	--	5.04	22.8	25.9	<0.05	<10	20.1	1.2	<2	<1	24.3	9.44
TB4-015	30	12/2/1997	Primary	Bedrock	Saturated	<6	<0.5	<20	<0.5	<2	1080	--	87.7	20.6	<0.4	<0.05	<10	1770	3.2	<2	<1	27	27.4
TB5-001	1	12/2/1997	Primary	Fill/Brown	Unsaturated	<6	4.9	108	<0.5	<2	70.4	--	10.8	84.6	205	0.427	<10	131	1.9	<2	<1	41.7	141
TB5-001	6	12/2/1997	Primary	Fill/Green	Unsaturated	<6	<0.5	<20	<0.5	<2	927	--	87.7	27.4	<0.4	<0.05	<10	1600	2.2	<2	<1	26.4	18.1
TB5-001	10	12/2/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	1030	--	54.8	24.4	<0.4	<0.05	<10	1060	1.6	<2	<1	25.6	9.59
TB5-001	15	12/2/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	362	--	70.6	24	<0.4	<0.05	<10	1470	2.6	<2	<1	14.3	21.7
TB5-002	1	11/26/1997	Primary	Fill	Unsaturated	<6	1.7	98.4	<0.5	<2	351	--	46.3	38	41.8	0.101	<10	894	<1	<2	<1	156	38.3
TB5-002	6	11/26/1997	Primary	Fill	Unsaturated	<6	3.1	130	<0.5	<2	348	--	47.9	38.8	31.1	0.072	<10	835	<1	<2	<1	32.5	28.8
TB5-002	10	11/26/1997	Primary	Fill	Unsaturated	<6	0.8	136	<0.5	<2	109	--	61.5	8.59	8.02	<0.05	<10	1250	<1	<2	<1	6.93	19.3
TB5-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	36.1	16.2	269	<0.5	<2	198	--	29.2	1780	1240	0.523	<10	354	<1	<2	<1	97.5	370
TB5-003	6	11/26/1997	Primary	Bedrock	Unsaturated	<6	<0.5	<20	<0.5	<2	771	--	63.9	21.1	2.75	<0.05	<10	1220	<1	<2	<1	35	19.8
TB5-003	10	11/26/1997	Primary	Bedrock	Saturated	<6	<0.5	<20	<0.5	<2	501	--	105	17.8	<0.4	<0.05	<10	1320	<1	<2	<1	22.7	15.5
TS1-017	1	12/9/1997	Primary	Fill	Unsaturated	<6	5.1	57.8	<0.5	<2	45.7	--	10	40.4	82.8	0.104	<10	41.8	3.5	<2	<1	49.1	256
TS1-018	1	12/9/1997	Primary	Fill	Unsaturated	<6	4.1	93.2	<0.5	<2	45.3	--	8.94	23.3	25.7	0.054	<10	31.6	2.1	<2	<1	41.7	100
TS1-019	1	12/9/1997	Primary	Fill	Unsaturated	<6	3.7	112	<0.5	<2	31.4	--	6.83	34.4	51.5	0.116	<10	34.8	1.9	<2	<1	37.2	133
Geotechnical Consultants, Inc., 2004, Geotechnical Report, Potrero Power Plant, June--Analytical results reported in wet weight																							
TS4-016	1	12/10/1997	Primary	Fill	Unsaturated	7.32	29.8	589	<0.5	<2	237	--	21.6	81.9	274	0.442	<10	322	1.6	<2	<1	56.9	186
CHSB-1	0.5	2/24/2004	Primary	Fill	Unsaturated	<10	82	44	<1	<1	190	--	15	14	<10	<0.02	<4	240	<10	<1	92	34	21
CHSB-1	3.5	2/24/2004	Primary	Bedrock	Unsaturated	11	80	<10	<1	<1	710	--	57	10	<10	<0.02	<4	1100	<10	<1	180	26	15
CHSB-2	0.5	2/24/2004	Primary	Fill	Unsaturated	<10	39	24	<1	<1	59	--	7.3	6.5	15	0.052	<4	88	<10	<1	38	21	20
CHSB-2	3.5	2/24/2004	Primary	Fill	Unsaturated	<10	48	22	<1	<1	170	--	18	7.1	22	0.062	<4	340	<10	<1	64	22	20
CHSB-3	0.5	2/25/2004	Primary	Fill	Unsaturated	<10	110	72	<1	<1	64	--	12	85	64	0.19	<4	100	<10	<1	98	76	77
CHSB-3	3.5	2/25/2004	Primary	Fill	Unsaturated	<10	77	590	<1	<1	98	--	7.3	25	<10	0.073	<4	30	<10	<1	26	28	28
CHSB-4	0.5	2/25/2004	Primary	Fill	Unsaturated	<10	45	36	<1	<1	58	--	6.2	10	44	0.088	<4	55	<10	<1	45	26	42
CHSB-4	3.5	2/25/2004	Primary	Fill	Unsaturated	<10	42	80	<1	<1	36	--	4.9	19	150	0.16	<4	31	<10	<1	41	23	110
CHSB-5	0.5	2/24/2004	Primary	Fill	Unsaturated	<10	56	41	<1	<1	39	--	6.6	11	13	0.042	<4	62	<10	<1	52	26	29
CHSB-5	3.5	2/24/2004	Primary	Fill	Unsaturated	<10	51	17	<1	<1	110	--	14	7.3	<10	0.092	<4	230	<10	<1	62	33	26
CHSB-6	0.5	2/25/2004	Primary	Fill	Unsaturated	<10	99	55	<1	<1	250	--	29	120	160	4.6	<4	540	<10	<1	150	47	100
CHSB-6	3.5	2/25/2004	Primary	Bedrock	Unsaturated	11	84	40	<1	<1	450	--	52	82	310	0.22	<4	1100	<10	<1	170	27	120

TABLE C-1

SUMMARY OF ANALYTICAL RESULTS FOR INORGANIC CONSTITUENTS IN SOIL SAMPLES[1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium (VI)	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
CHSB-7	0.5	2/25/2004	Primary	Fill	Unsaturated	**10**	**73**	**77**	<1	<1	**240**	--	**23**	**40**	**79**	**0.3**	<4	**420**	<10	<1	**98**	**35**	**62**
CHSB-7	3.5	2/25/2004	Primary	Fill	Unsaturated	**14**	**89**	<10	<1	<1	**660**	--	**67**	**13**	<10	<0.02	<4	**1400**	<10	<1	**190**	**24**	**13**
CHSB-8	0.5	2/24/2004	Primary	Fill	Unsaturated	**11**	**70**	**34**	<1	<1	**760**	--	**52**	**21**	<10	**0.14**	<4	**1100**	<10	<1	**140**	**50**	**51**
CHSB-8	3.5	2/24/2004	Primary	Bedrock	Unsaturated	**12**	**65**	<10	<1	<1	**700**	--	**47**	**8.3**	<10	<0.02	<4	**970**	<10	<1	**140**	**24**	**13**

Notes:

1. Soil samples analyzed for Title 22 metals using EPA Methods 6000 series and 7000 series (for mercury).
2. No information was provided in the analytical laboratory reports or Soil Investigation Report (TES, 1991) regarding wet or dry weight basis of soil sample results. The results were assumed to have been reported on a wet weight basis.
3. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations

"**Bold**" = detected above the laboratory reporting limit
EPA = U.S. Environmental Protection Agency
< = not detected above the laboratory reporting limit
-- = not analyzed

TABLE C-2

SUMMARY OF ANALYTICAL RESULTS FOR POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) IN SOIL SAMPLES[1]
Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Acenaph-thene	Acenaph-thylene	Anthracene	Benz(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(ghi) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(ah) anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phen-anthrene	Pyrene
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16--Analytical results reported in dry weight																						
B-POT-1	2.5	2/28/1991	Primary	Fill	Unsaturated	EPA 8310	**2.6**	<0.53	**0.16**	**0.32**	**2.8**	**0.82**	**6.5**	**1**	<0.053	**6.9**	**1.7**	<0.053	**1.3**	<0.53	**0.28**	**5.2**
B-POT-1	9	2/28/1991	Primary	Bedrock	Unsaturated	EPA 8310	<0.56	<0.56	<0.056	<0.056	<0.056	<0.056	<0.14	<0.056	<0.056	<0.14	<0.14	<0.056	<0.056	<0.56	<0.056	<0.14
B-POT-2	4.5	2/27/1991	Primary	Bedrock	Unsaturated	EPA 8310	<0.56	<0.56	<0.056	<0.056	<0.056	<0.056	<0.14	<0.056	<0.056	<0.14	<0.14	<0.056	<0.056	<0.56	<0.056	<0.14
B-POT-2	6.5	2/27/1991	Primary	Bedrock	Unsaturated	EPA 8310	<0.56	<0.56	<0.056	<0.056	<0.056	<0.056	<0.14	<0.056	<0.056	<0.14	<0.14	<0.056	<0.056	<0.56	<0.056	<0.14
B-POT-3	3.5	2/22/1991	Primary	Fill/Brown	Unsaturated	EPA 8310	<5.7	<5.7	<0.57	<0.57	<0.57	<0.57	<1.4	<0.57	<0.57	<1.4	<1.4	<0.57	<0.57	<5.7	**0.68**	**2.5**
B-POT-3	6	2/22/1991	Primary	Fill	Unsaturated	EPA 8310	<0.56	<0.56	<0.056	<0.056	<0.056	<0.056	<0.14	<0.056	<0.056	<0.14	<0.14	<0.056	<0.056	<0.56	<0.056	<0.14
B-POT-3	10	2/22/1991	Primary	Fill/Brown	Unsaturated	EPA 8310	<6.7	<6.7	**0.67**	**2.4**	**4.3**	**6**	<1.7	**1.9**	**4.6**	<1.7	**6**	<0.67	<0.67	<6.7	<0.67	**18**
B-POT-3	11.5	2/22/1991	Primary	Fill/Green	Unsaturated	EPA 8310	**3**	<1.3	**0.82**	**1.9**	**0.62**	**0.22**	<0.32	**0.29**	**0.96**	<0.32	**49**	**0.89**	**0.14**	<1.3	**2.3**	**10**
POT-9	3.5	3/4/1991	Primary	Bedrock	Unsaturated	EPA 8310	<0.62	<0.62	<0.062	<0.062	<0.062	<0.062	<0.16	<0.062	<0.062	<0.16	<0.16	<0.062	<0.062	<0.62	<0.062	<0.16
POT-9	5.5	3/4/1991	Primary	Bedrock	Unsaturated	EPA 8310	<0.59	<0.59	<0.059	<0.059	<0.059	<0.059	<0.15	<0.059	<0.059	<0.15	<0.15	<0.059	<0.059	<0.59	<0.059	<0.15
POT-9	10	3/4/1991	Primary	Bedrock	Unsaturated	EPA 8310	<0.62	<0.62	<0.062	<0.062	<0.062	<0.062	<0.16	<0.062	<0.062	<0.16	<0.16	<0.062	<0.062	<0.62	<0.062	<0.16
POT-9	25	3/4/1991	Primary	Bedrock	Saturated	EPA 8310	<0.6	<0.6	<0.06	<0.06	<0.06	<0.06	<0.15	<0.06	<0.06	<0.15	<0.15	<0.06	<0.06	<0.6	<0.06	<0.15
POT-14	3.5	3/5/1991	Primary	Fill/Brown	Unsaturated	EPA 8310	<0.58	<0.58	<0.058	<0.058	<0.058	<0.058	<0.14	<0.058	<0.058	<0.14	<0.14	<0.058	<0.058	<0.58	<0.058	<0.14
POT-14	6	3/5/1991	Primary	Interface	Saturated	EPA 8310	<0.56	<0.56	<0.056	<0.056	<0.056	<0.056	<0.14	<0.056	<0.056	<0.14	<0.14	<0.056	<0.056	<0.56	<0.056	<0.14
POT-14	20.5	3/5/1991	Primary	Bedrock	Saturated	EPA 8310	<0.66	<0.66	<0.066	<0.066	<0.066	<0.066	<0.16	<0.066	<0.066	<0.16	<0.16	<0.066	<0.066	<0.66	<0.066	<0.16
POT-15	3.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8310	<0.57	<0.57	<0.057	<0.057	<0.057	<0.057	<0.14	<0.057	<0.057	<0.14	<0.14	<0.057	<0.057	<0.57	<0.057	<0.14
POT-15	5.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8310	<0.53	<0.53	<0.053	<0.053	**2.6**	**0.34**	**2.2**	**0.37**	<0.053	**5.4**	**0.6**	<0.053	**0.33**	<0.53	**0.24**	**0.62**
POT-15	8.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8310	**22**	<0.62	**1.1**	**2.8**	**7.2**	**4.3**	**5.6**	**2.7**	**3.8**	**7**	**5.6**	**3.2**	**3.3**	<0.62	**2.3**	**8**
POT-15	16.5	3/1/1991	Primary	Fill	Saturated	EPA 8310	**32**	**6.1**	**3.5**	**28**	**47**	**40**	**110**	**42**	**45**	<0.13	**28**	**5.3**	**8.2**	<4.4	**3**	**110**
SS-APT-1	0.5	2/25/1991	Primary	Fill	Unsaturated	EPA 8310	<2.6	<2.6	<0.26	**0.87**	**2.6**	**1**	**4**	**0.7**	**0.96**	**5.3**	**4.7**	<0.26	**2.2**	<2.6	**1.4**	**5.8**
SS-POT-1	0.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8310	<0.56	<0.56	**1.2**	**4.5**	**7.3**	**4**	**5.2**	**2.5**	**5.3**	**5.6**	**11**	**1.5**	**3.8**	**9.7**	**3.8**	**17**
SS-POT-3	0.5	3/5/1991	Primary	Fill	Unsaturated	EPA 8310	**20**	**9.4**	**0.98**	**4**	**3.9**	**2.9**	**3.2**	**2.1**	**4.2**	**4.2**	**11**	<0.29	**1.6**	**15**	**7.4**	**11**
SS-POT-6	0.5	3/5/1991	Primary	Fill	Unsaturated	EPA 8310	<2.7	<2.7	**0.28**	**0.54**	**2.1**	**1.1**	**3.2**	**0.87**	**1.3**	**4.4**	**2.8**	**0.73**	**1.2**	**4.1**	**1.4**	**3.8**
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June--Analytical results reported in wet weight																						
TB1-001	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	**84**	<1200	<60	<60	**43**	<60	<60	<60	<60	<30	**40**	<60	**25**	**51**	**46**	**70**
TB1-001	6	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB1-001	11	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB1-002	1	12/4/1997	Duplicate	Fill/Green	Unsaturated	EPA 8310	**120**	<600	<30	**49**	**65**	**46**	**40**	**29**	**83**	**20**	**110**	<30	**35**	**44**	**50**	**100**
TB1-002	1	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8270	<10	<20	<10	**23.4**	**25.3**	**26.8**	**17.4**	<10	**32**	<5	**30.8**	<10	<6	<20	**34.2**	**54.4**
TB1-002	1	12/4/1997	Duplicate	Fill/Green	Unsaturated	EPA 8270	<10	<20	<10	**39**	**35.4**	**17.9**	**24.3**	**33**	**43.6**	<5	**36.1**	<10	**19.4**	<20	**33.3**	**96.2**
TB1-002	1	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<15	<300	<15	**15**	**21**	**14**	**11**	<15	**25**	**6.4**	**33**	<15	**12**	**15**	**18**	**31**
TB1-002	6	12/9/1997	Duplicate	Fill/Green	Unsaturated	EPA 8310	**1.2**	<50	<2.5	<2.5	<1.2	<2.5	<2.5	<2.5	<2.5	<1.2	**1.1**	<2.5	<1.5	**1.2**	<2.5	<2.5
TB1-002	6	12/9/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<2.5	<50	<2.5	<2.5	<1.2	<2.5	<2.5	<2.5	<2.5	<1.2	<2.5	<2.5	<1.5	<2.5	<2.5	<2.5
TB1-002	11	12/9/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<2.5	<50	<2.5	<2.5	<1.25	<2.5	<2.5	<2.5	<2.5	<1.25	<2.5	<2.5	<1.5	<2.5	<2.5	<2.5
TB1-002	16	12/9/1997	Primary	Fill/Green	Saturated	EPA 8310	**1.2**	<34	<1.7	<1.7	<0.85	<1.7	<1.7	<1.7	<1.7	<0.85	**1.1**	<1.7	<1.02	**1.2**	<1.7	<1.7
TB1-002	16	12/9/1997	Primary	Fill/Green	Saturated	EPA 8270C	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66
TB1-002	22	12/9/1997	Primary	Fill/Green	Saturated	EPA 8310	<0.8	<16	<0.8	<0.8	<0.4	<0.8	<0.8	<0.8	<0.8	<0.4	<0.8	<0.8	<0.48	<0.8	<0.8	<0.8
TB1-003	1	11/25/1997	Primary	Fill	Unsaturated	EPA 8310	<5	<10	<5	<5	<2.5	<5	<5	<5	<5	**2.79**	<5	<5	<3	**15.2**	<5	<5
TB1-003	9	12/10/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<2	<40	<2	<2	<1	<2	<2	<2	<2	<1	<2	<2	<1.2	<2	<2	<2
TB1-003	13	12/10/1997	Primary	Fill/Green	Saturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB1-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8270	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.6	<2	<1	**1.94**
TB1-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<1	<20	<1	<1	**0.64**	**0.57**	**1.3**	<1	**0.54**	**0.33**	**0.94**	<1	**0.69**	<1	**0.74**	**0.93**
TB1-008	6	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8270	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	**0.248**	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.2	<0.1	<0.1
TB1-008	6	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	**0.058**	**0.056**	**0.075**	<0.1	<0.1	**0.044**	**0.076**	<0.1	**0.077**	<0.1	<0.1	**0.091**
TB1-008	11	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8270	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.2	<0.1	<0.1
TB1-008	11	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	**0.031**	<0.1	<0.1	<0.1	<0.1	**0.035**	<0.1	<0.1	**0.054**	<0.1	<0.1	<0.1
TB1-009	1	10/15/1997	Primary	Fill	Unsaturated	EPA 8310	<0.1	**0.464**	<0.1	<0.1	**0.218**	**0.112**	<0.1	<0.1	<0.1	<0.05	**0.432**	<0.1	**0.0828**	<0.2	**0.171**	<0.1
TB1-009	8	10/15/1997	Primary	Fill	Unsaturated	EPA 8310	<0.2	<0.4	<0.2	**0.272**	**0.803**	**0.498**	**0.589**	**0.304**	<0.2	**0.196**	**0.608**	<0.2	**0.53**	<0.4	**0.232**	**0.341**
TB1-009	15	10/15/1997	Primary	Fill	Saturated	EPA 8310	<3	<6	<3	**8.3**	**12.3**	**7.36**	<3	<3	**14.6**	**3.96**	**6.69**	<3	**3.66**	<6	**3.97**	<3
TB1-009	20	10/15/1997	Primary	Fill	Saturated	EPA 8310	<5	**42**	**125**	**111**	**119**	**65.8**	**45.5**	**41.6**	**145**	**33.5**	**332**	**50.6**	**27.1**	**65.5**	**154**	**168**
TB1-009	25	10/23/1997	Primary	Bedrock	Saturated	EPA 8310	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.2	<0.1	<0.1
TB1-009	25	10/23/1997	Duplicate	Bedrock	Saturated	EPA 8310	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.2	<0.1	<0.1
TB1-010	1	12/9/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<1.3	<26	<1.3	<1.3	<0.65	<1.3	<1.3	<1.3	<1.3	<0.65	<1.3	<1.3	<0.78	<1.3	<1.3	<1.3
TB1-010	6	12/9/1997	Primary	Fill	Unsaturated	EPA 8310	<0.5	<10	<0.5	<0.5	<0.25	<0.5	<0.5	<0.5	<0.5	<0.25	<0.5	<0.5	<0.3	<0.5	<0.5	<0.5

TABLE C-2

SUMMARY OF ANALYTICAL RESULTS FOR POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) IN SOIL SAMPLES[1]
Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Acenaph-thene	Acenaph-thylene	Anthracene	Benz(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(ghi) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(ah) anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phen-anthrene	Pyrene
TB1-010	11	12/9/1997	Primary	Fill	Unsaturated	EPA 8310	<0.5	<10	<0.5	<0.5	<0.25	<0.5	<0.5	<0.5	<0.5	<0.25	<0.5	<0.5	<0.3	<0.5	<0.5	<0.5
TB1-011	1	12/9/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<1.3	<26	<1.3	<1.3	<0.65	<1.3	<1.3	<1.3	<1.3	<0.65	<1.3	<1.3	<0.78	<1.3	<1.3	<1.3
TB1-011	1	12/9/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8310	<4.2	<84	<4.2	<4.2	<2.1	<4.2	<4.2	<4.2	<4.2	<2.1	<4.2	<4.2	<2.5	<4.2	<4.2	<4.2
TB1-011	9	12/9/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.5	<10	<0.5	<0.5	<0.25	<0.5	<0.5	<0.5	<0.5	<0.25	<0.5	<0.5	<0.3	<0.5	<0.5	<0.5
TB1-011	13	12/9/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.5	<10	<0.5	<0.5	<0.25	<0.5	<0.5	<0.5	<0.5	<0.25	<0.5	<0.5	<0.3	<0.5	<0.5	<0.5
TB1-012	1	11/25/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<0.3	**0.932**	<0.3	<0.3	<0.15	<0.3	<0.3	<0.3	<0.3	**0.617**	<0.3	<0.3	**0.202**	<0.6	<0.3	<0.3
TB1-012	1	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<1	<20	<1	<1	**0.59**	**0.5**	<1	<1	**0.51**	**0.37**	**1.1**	<1	**0.51**	**0.59**	**0.69**	**1.5**
TB1-012	1	12/8/1997	Duplicate	Fill/Green	Unsaturated	EPA 8310	<2	<40	<2	**1**	**1.3**	**1**	<2	<2	**1.2**	**0.76**	**2.8**	<2	**1.1**	**1.9**	**2.4**	**2.8**
TB1-012	6	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB1-012	10	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8310	**46**	<200	<10	**14**	**40**	**27**	**18**	**10**	**16**	**28**	**15**	<10	**26**	<10	**7.3**	**15**
TB2-001	1	11/26/1997	Duplicate	Fill/Green	Unsaturated	EPA 8310	<0.5	<1	<0.5	<0.5	**0.809**	<0.5	**0.861**	<0.5	<0.5	**0.469**	<0.5	<0.5	**0.685**	<1	<0.5	**1.02**
TB2-001	1	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<1	<2	<1	<1	**1.26**	<1	**2.07**	<1	<1	**0.928**	**1.06**	<1	**1.15**	<2	<1	**1.92**
TB2-001	7	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8310	<1	<2	<1	<1	**1.37**	<1	**1.38**	<1	<1	<0.5	**2.01**	<1	**1.06**	<2	<1	**1.56**
TB2-001	12	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.2	<0.4	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2	<0.12	<0.4	<0.2	<0.2
TB2-002	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<0.5	**1.04**	<0.5	<0.5	**0.294**	<0.5	<0.5	<0.5	<0.5	**0.861**	<0.5	<0.5	**0.85**	<1	<0.5	<0.5
TB2-002	7	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<1	<2	<1	<1	**1.2**	<1	<1	<1	<1	<0.5	**2.16**	<1	**0.696**	<2	**1.49**	**2.72**
TB2-002	12	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.2	<0.5	<0.1
TB2-003	1	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8310	**2.6**	<40	<2	<2	**1.7**	**1.4**	**1.7**	<2	**1.5**	**1.1**	**2**	<2	**1.9**	**2.4**	**1.8**	**2.8**
TB2-003	6	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB2-003	10	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB2-004	2	11/26/1997	Primary	Fill	Unsaturated	EPA 8310	<0.1	<0.2	<0.1	<0.1	**0.202**	**0.113**	**0.205**	<0.1	<0.1	**0.336**	<0.1	<0.1	**0.229**	<0.2	**0.13**	**0.248**
TB2-004	6	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.2	<0.1	<0.1
TB2-004	10	11/26/1997	Duplicate	Bedrock	Unsaturated	EPA 8310	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.2	<0.1	<0.1
TB2-004	10	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.2	<0.4	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2	<0.12	<0.4	<0.2	<0.2
TB2-005	1	11/21/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.6	<2	<1	<1
TB2-005	6	11/25/1997	Duplicate	Bedrock	Unsaturated	EPA 8310	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.2	<0.1	<0.1
TB2-005	6	11/25/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.2	<0.4	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2	<0.12	<0.4	<0.2	<0.2
TB2-005	10	11/25/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.4	<0.8	<0.4	<0.4	<0.2	<0.4	<0.4	<0.4	<0.4	**0.918**	<0.4	<0.4	**0.732**	<0.8	<0.4	<0.4
TB2-006	1	11/21/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<0.1	<0.2	<0.1	<0.1	**0.107**	<0.1	<0.1	<0.1	<0.1	<0.05	**0.153**	<0.1	**0.185**	<0.2	**0.154**	<0.1
TB2-006	6	11/21/1997	Primary	Fill	Unsaturated	EPA 8310	<0.1	<0.2	<0.1	<0.1	**0.0784**	<0.1	<0.1	<0.1	<0.1	<0.05	**0.217**	<0.1	<0.06	<0.2	<0.1	**0.146**
TB2-006	10	11/21/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.2	**0.127**	<0.1
TB4-002	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<10	<200	<10	<10	<5	<10	<10	<10	<10	<5	<10	<10	<6	<10	<10	<10
TB4-002	1	12/8/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8310	<2	<40	<2	<2	<1	<2	<2	<2	<2	<1	<2	<2	<1.2	<2	<2	<2
TB4-002	6	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB4-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<5	<10	<5	<5	**6.31**	<5	**5.09**	<5	<5	<2.5	**10.9**	<5	**4.06**	<10	<5	**13.8**
TB4-003	7	11/26/1997	Primary	Fill/Green	Saturated	EPA 8310	<0.3	<0.6	<0.3	<0.3	<0.15	<0.3	<0.3	<0.3	<0.3	<0.15	<0.3	<0.3	<0.18	<0.6	<0.3	<0.3
TB4-003	12	12/1/1997	Primary	Bedrock	Saturated	EPA 8310	<0.5	<1	<0.5	<0.5	**0.432**	<0.5	<0.5	<0.5	<0.5	<0.25	<0.5	<0.5	<0.3	<1	<0.5	<0.5
TB4-004	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<10	<200	<10	<10	**7.9**	**6.9**	**7.3**	<10	**5.6**	**4.4**	**14**	<10	**7.4**	<10	**8.3**	**15**
TB4-004	7	12/8/1997	Primary	Interface	Unsaturated	EPA 8310	<10	<200	<10	<10	**2.5**	<10	<10	<10	<10	<5	<10	<10	<6	<10	<10	<10
TB4-004	11	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB4-005	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	**7.9**	<80	<4	**5.3**	**9.9**	**7.2**	**9.8**	**2.9**	**6.7**	**8**	**17**	<4	**8.9**	**8.3**	**6.9**	**21**
TB4-005	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8270	<2	<4	<2	**9.68**	**11.3**	**11.9**	**5.55**	**4.78**	**10.9**	<1	**20.2**	<2	**4.74**	<4	**20.4**	**25.4**
TB4-005	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8270	<1	<2	**2.29**	**8.12**	**9.99**	**10.1**	**8.99**	**3.93**	**9.07**	**1.68**	**17.2**	<1	**7.51**	<2	**13.8**	**20.2**
TB4-005	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8310	**13**	<100	<5	**6.4**	**9**	**7.5**	**11**	**3.7**	**10**	**12**	**16**	<5	**10**	**15**	**13**	**18**
TB4-005	6	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8270	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	**0.294**	<0.1	<0.06	<0.2	<0.1	**0.301**
TB4-005	6	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8310	**0.61**	<4	**0.1**	**0.1**	**0.15**	**0.15**	**0.19**	<0.2	**0.14**	**0.095**	**0.64**	**0.15**	**0.15**	<0.2	**0.42**	**0.85**
TB4-005	10	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8270	**1.07**	<0.2	<0.1	<0.1	**0.187**	**0.19**	**0.196**	<0.1	<0.1	<0.05	**0.597**	<0.1	<0.06	<0.2	**0.899**	**0.63**
TB4-005	10	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB4-005	15	12/3/1997	Primary	Bedrock	Saturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB4-006	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8270	<0.5	<1	<0.5	**0.772**	**1.6**	**1.85**	**1.81**	**0.94**	**1.15**	<0.25	**1.08**	<0.5	**1.34**	<1	<0.5	**2.56**
TB4-006	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<20	<400	<20	**18**	**43**	**37**	**65**	**17**	**28**	**57**	**41**	<20	**59**	**35**	**26**	**45**
TB4-006	6	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8270	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.2	<0.1	<0.1
TB4-006	6	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB4-006	10	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8270	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.2	<0.1	<0.1
TB4-006	10	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB4-006	15	12/3/1997	Primary	Bedrock	Saturated	EPA 8310	<0.1	<2	<0.1	<0.1	**0.062**	**0.052**	<0.1	<0.1	<0.1	**0.034**	**0.11**	<0.1	**0.055**	<0.1	<0.1	**0.15**

TABLE C-2

SUMMARY OF ANALYTICAL RESULTS FOR POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) IN SOIL SAMPLES[1]
Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Acenaph-thene	Acenaph-thylene	Anthracene	Benz(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(ghi) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(ah) anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phen-anthrene	Pyrene
TB4-007	2	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	1700	2000	24	71	49	32	69	17	41	37	120	<30	64	59	120	170
TB4-007	6	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<60	<1200	<60	31	52	50	52	<60	42	34	160	<60	51	130	170	170
TB4-007	20	12/8/1997	Primary	Bedrock	Saturated	EPA 8310	<0.5	<10	<0.5	<0.5	<0.25	<0.5	<0.5	<0.5	<0.5	<0.25	<0.5	<0.5	<0.3	1	<0.5	0.96
TB4-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8270	<10	<20	<10	25.5	40.9	48.8	<10	20.6	37.3	<5	86.2	<10	35	<20	118	179
TB4-008	1	12/4/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8270	<2	<4	<2	12.1	19.3	22.4	24.2	9.46	16.4	3.9	15.2	<2	19.9	<4	15.3	52.9
TB4-008	1	12/4/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8310	30	<400	<20	14	23	23	23	<20	20	17	51	<20	26	30	20	49
TB4-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	31	<400	<20	14	26	23	27	10	21	17	39	<20	28	30	17	44
TB4-008	4	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8270	<10	<20	<10	39.3	27.7	42.4	27.7	28.4	49.9	<5	87.9	<10	24.6	23	143	136
TB4-008	4	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8310	100	<1200	<60	37	17	40	<60	<60	59	26	250	<60	33	460	170	140
TB4-008	6	12/4/1997	Primary	Fill	Unsaturated	EPA 8270	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	0.338	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.2	0.169	0.168
TB4-008	6	12/4/1997	Primary	Fill	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	0.093	<0.1	<0.06	0.091	<0.1	<0.1
TB4-008	10	12/4/1997	Primary	Fill	Unsaturated	EPA 8270	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.2	<0.1	<0.1
TB4-008	10	12/4/1997	Primary	Fill	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB4-008	15	12/4/1997	Primary	Fill	Saturated	EPA 8270	<0.2	<0.4	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.1	<0.2	1.15	<0.12	<0.4	<0.2	<0.2
TB4-008	15	12/4/1997	Primary	Fill	Saturated	EPA 8310	3.1	<40	<2	<2	<1	<2	<2	<2	1.1	<1	<2	<2	<1.2	1.2	<2	<2
TB4-008	20	12/4/1997	Primary	Fill/Green	Saturated	EPA 8270	<3	<6	<3	11.1	13.5	10.9	9.42	6.36	9.35	<1.5	12.8	<3	6.47	<6	7.67	30.9
TB4-008	20	12/4/1997	Primary	Fill/Green	Saturated	EPA 8310	12	<200	<10	7.7	15	11	7.5	<10	9.6	10	14	<10	10	<10	<10	15
TB4-008	30	12/4/1997	Primary	Fill/Brown	Saturated	EPA 8270	<0.5	<1	<0.5	1.14	1.39	1.42	<0.5	<0.5	1.15	<0.25	1.99	<0.5	<0.3	<1	1.8	4.35
TB4-008	30	12/4/1997	Primary	Fill/Brown	Saturated	EPA 8310	1.8	<20	<1	1.3	2.7	2	1.4	0.85	1.6	2	2.5	<1	1.9	1.2	0.7	2.7
TB4-009	1	12/2/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8310	24	<400	<20	10	16	14	13	<20	13	8.1	21	<20	15	14	23	31
TB4-009	1	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<10	<200	<10	<10	6.6	5.6	6.7	<10	<10	4.6	7.8	<10	6.7	<10	5.4	9.7
TB4-009	6	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<5	<100	<5	<5	2.3	<5	<5	<5	2.7	<2.5	3.8	<5	2	<5	3.5	4.1
TB4-009	11	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB4-009	16	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8310	<1	<20	<1	<1	<0.5	<1	<1	<1	0.74	<0.5	1.2	<1	<0.6	<1	0.81	2
TB4-009	21	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.1	<2	<0.1	0.067	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	0.068	<0.1	<0.06	<0.1	<0.1	0.21
TB4-010	1	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8270	<0.2	<0.4	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2	<0.12	<0.4	<0.2	<0.2
TB4-010	1	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<0.4	<8	<0.4	<0.4	0.18	0.22	0.25	<0.4	0.45	0.29	0.32	<0.4	<0.24	<0.4	0.2	0.26
TB4-010	6	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8270	<0.1	<0.2	<0.1	<0.1	0.214	0.226	0.28	<0.1	<0.1	<0.05	0.255	<0.1	0.173	<0.2	0.181	0.338
TB4-010	6	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<1	<20	<1	<1	0.36	<1	<1	<1	<1	<0.5	<1	<1	0.37	<1	<1	0.53
TB4-010	10	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8270	<0.2	<0.4	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2	<0.12	<0.4	<0.2	0.426
TB4-010	10	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<1	<20	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.6	<1	<1	<1
TB4-011	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8270	<1	<2	1.81	6.55	9.16	8.34	8.27	3.52	7.84	<0.5	17.6	<1	6.01	<2	16.4	17.2
TB4-011	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8270	<1	<2	2.95	8.57	11	11	7.63	4.15	9.33	<0.5	24	2.67	6.87	4.37	28.5	22.8
TB4-011	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8310	15	<100	<5	4.9	6.7	5.8	4.3	<5	6	2.8	13	<5	5.9	8.8	15	17
TB4-011	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	16	<200	<10	6.8	10	7.9	6.8	<10	9.1	4.3	24	<10	7.6	14	23	25
TB4-011	6	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8270	<1	<2	<1	2.94	5.07	4.6	2.84	2.11	3	<0.5	3.52	<1	2.96	<2	2.86	4.94
TB4-011	6	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8310	6.7	<100	<5	<5	4.7	3.5	2.6	<5	2.9	1.7	3.6	<5	3.4	<5	<5	2.9
TB4-011	11	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8270	<2	<4	<2	11	17.8	15.5	10.9	7.09	10.9	<1	14.9	<2	9.02	<4	7.73	15.8
TB4-011	11	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8310	32	<100	2.6	7.9	16	12	9.4	4.7	9.4	7.1	13	2.7	9.8	4.4	7.3	13
TB4-011	21	12/3/1997	Primary	Fill	Saturated	EPA 8310	<6	<120	<6	<6	<3	<6	<6	<6	12	2.8	3.4	<6	<3.6	<6	<6	4.4
TB4-011	26	12/3/1997	Primary	Bedrock	Saturated	EPA 8310	<1	<20	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.6	<1	<1	<1
TB4-012	3	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<0.2	<0.4	<0.2	<0.2	0.283	<0.2	0.237	<0.2	<0.2	0.107	0.264	<0.2	0.156	<0.4	<0.2	0.33
TB4-012	6	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<2.5	<5	<2.5	<2.5	5.12	<2.5	<2.5	<2.5	<2.5	<1.2	<2.5	<2.5	2.03	<5	<2.5	<2.5
TB4-012	10	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.2	<0.1	<0.1
TB4-013	1	12/1/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8310	<0.5	<1	<0.5	<0.5	1.17	0.701	1.31	<0.5	0.549	<0.25	0.778	<0.5	1.06	<1	0.538	1.17
TB4-013	1	12/1/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<10	<20	<10	<10	9.45	<10	<10	<10	<10	<5	20.3	<10	<6	<20	10.7	30.5
TB4-013	6	12/1/1997	Primary	Fill/Brown	Saturated	EPA 8310	<2	<40	<2	<2	<1	<2	<2	<2	<2	<1	<2	<2	<1.2	5.5	<2	<2
TB4-013	11	12/1/1997	Primary	Bedrock	Saturated	EPA 8310	<1	<20	<1	0.53	1.2	1	1.3	<1	0.82	1.3	1.3	<1	1.5	3.8	1	1.6
TB4-014	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8270	<1	<2	<1	10.8	12	18.2	14.2	7.7	13.9	2.82	13.9	<1	10.8	<2	7.75	19.5
TB4-014	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	23	<100	<5	6	9	9.1	7	3.7	11	9.4	11	<5	8.5	9.6	6.3	12
TB4-014	6	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8270	<1	<2	4.65	17.1	23.7	23.2	12.6	9.14	15.4	<0.5	22.7	<1	11	<2	15.1	27.5
TB4-014	6	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	19	<100	<5	8.4	13	9.8	11	4.1	13	6	19	<5	9.1	5.3	8.1	18
TB4-014	11	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8270	<6	<12	<6	<6	<3	<6	<6	<6	<6	<3	<6	<6	<3.6	<12	<6	<6
TB4-014	11	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	37	<600	<30	<30	9.4	<30	54	<30	15	<15	<30	<30	<18	<30	<30	<30
TB4-014	21	12/3/1997	Primary	Bedrock	Saturated	EPA 8310	<6	<120	<6	<6	3.7	<6	<6	<6	3.9	<3	3.6	<6	2.6	<6	<6	6.1
TB4-015	1	12/1/1997	Primary	Fill	Unsaturated	EPA 8310	88	<600	<30	46	41	39	<30	30	66	21	170	<30	29	150	60	120

TABLE C-2

SUMMARY OF ANALYTICAL RESULTS FOR POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) IN SOIL SAMPLES[1]
Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Acenaph-thene	Acenaph-thylene	Anthracene	Benz(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(ghi) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(ah) anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phen-anthrene	Pyrene
TB4-015	6	12/1/1997	Primary	Fill	Unsaturated	EPA 8310	<1	<20	<1	<1	**1.2**	**0.87**	**0.74**	<1	<1	**1**	<1	<1	**1.2**	<1	<1	<1
TB4-015	11	12/2/1997	Primary	Fill	Unsaturated	EPA 8310	<1	<20	<1	<1	<0.5	<1	<1	<1	<1	**0.96**	<1	<1	<0.6	<1	<1	<1
TB4-015	20	12/2/1997	Primary	Fill/Brown	Saturated	EPA 8310	<60	<1200	<60	<60	<30	<60	<60	<60	<60	<30	<60	<60	<36	<60	<60	<60
TB4-015	30	12/2/1997	Primary	Bedrock	Saturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB5-001	1	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<10	<200	<10	<10	<5	<10	<10	<10	<10	<5	**6.7**	<10	**3**	<10	**7.9**	**5.3**
TB5-001	6	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB5-001	10	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB5-001	15	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.2	<4	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2	<0.12	<0.2	<0.2	<0.2
TB5-002	1	11/26/1997	Primary	Fill	Unsaturated	EPA 8310	<5	<10	<5	**5.73**	**8.01**	<5	<5	<5	**8.26**	<2.5	**5.61**	<5	**3.91**	<10	<5	**11.8**
TB5-002	6	11/26/1997	Primary	Fill	Unsaturated	EPA 8310	<1	<2	<1	<1	**1.44**	<1	**1.15**	<1	<1	**0.683**	**1.22**	<1	**1.04**	<2	<1	**1.63**
TB5-002	10	11/26/1997	Primary	Fill	Unsaturated	EPA 8310	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	**1.66**	<1	<1	**1.06**	<2	<1	<1
TB5-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8310	<20	<40	<20	<20	<10	<20	<20	<20	<20	<10	<20	<20	<12	<40	**21.1**	**36**
TB5-003	6	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8310	<0.2	<0.4	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2	<0.12	<0.4	<0.2	<0.2
TB5-003	10	11/26/1997	Primary	Bedrock	Saturated	EPA 8310	<0.1	<0.2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.2	<0.1	<0.1
TS1-017	1	12/9/1997	Primary	Fill	Unsaturated	EPA 8310	<0.5	<10	<0.5	<0.5	<0.25	<0.5	<0.5	<0.5	<0.5	<0.25	<0.5	<0.5	<0.3	<0.5	<0.5	<0.5
TS1-018	1	12/9/1997	Primary	Fill	Unsaturated	EPA 8310	<1.3	<26	<1.3	<1.3	<0.65	<1.3	<1.3	<1.3	<1.3	<0.65	<1.3	<1.3	<0.78	<1.3	<1.3	<1.3
TS1-019	1	12/9/1997	Primary	Fill	Unsaturated	EPA 8310	<0.5	<10	<0.5	<0.5	<0.25	<0.5	<0.5	<0.5	<0.5	<0.25	<0.5	<0.5	<0.3	<0.5	**0.42**	**0.31**
TS4-016	1	12/10/1997	Primary	Fill	Unsaturated	EPA 8310	<20	<400	<20	<20	**5.3**	<20	<20	<20	<20	<10	**15**	<20	<12	<20	**14**	**15**
TB4-017	36	3/3/1998	Primary	Fill/Brown	Saturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB4-017	41	3/3/1998	Primary	Fill/Brown	Saturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB4-017	41	3/3/1998	Duplicate	Fill/Brown	Saturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
TB4-017	46	3/3/1998	Primary	Fill/Brown	Saturated	EPA 8310	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
Geotechnical Consultants, Inc., 2004, Geotechnical Report, Potrero Power Plant, June--Analytical results reported in wet weight																						
CHSB-1	0.5	2/24/2004	Primary	Fill	Unsaturated	EPA 8310	<0.17	<0.33	**0.17**	**0.14**	**0.025**	**0.085**	<0.33	**0.026**	**0.046**	<0.33	**0.47**	<0.033	<0.17	<0.17	**0.046**	**0.23**
CHSB-1	3.5	2/24/2004	Primary	Bedrock	Unsaturated	EPA 8310	**0.48**	<0.33	<0.17	**0.25**	**0.14**	**0.25**	<0.33	**0.091**	**0.23**	**0.39**	**0.58**	**0.33**	**0.19**	<0.17	<0.017	**1.2**
CHSB-2	0.5	2/24/2004	Primary	Fill	Unsaturated	EPA 8310	<0.17	<0.33	<0.017	**0.051**	**0.11**	**0.14**	**0.21**	**0.053**	**0.071**	**0.25**	**0.16**	<0.033	**0.18**	<0.17	**0.077**	**0.21**
CHSB-2	3.5	2/24/2004	Primary	Fill	Unsaturated	EPA 8310	<0.17	<0.33	<0.017	**0.042**	**0.17**	**0.21**	**0.45**	**0.084**	**0.047**	<0.33	**0.054**	<0.033	**0.38**	<0.17	**0.055**	**0.064**
CHSB-3	0.5	2/25/2004	Primary	Fill	Unsaturated	EPA 8310	<0.17	<0.33	**0.039**	**0.13**	**0.12**	**0.16**	<0.33	**0.062**	**0.15**	<0.33	**0.33**	**0.047**	**0.21**	<0.17	**0.16**	**0.34**
CHSB-3	3.5	2/25/2004	Primary	Fill	Unsaturated	EPA 8310	<0.17	**1.8**	**3.9**	**8**	**7.5**	**6.8**	**8.9**	**4.3**	**8.2**	**9.8**	**16**	<3.3	**5.8**	**1.2**	**15**	**20**
CHSB-4	0.5	2/25/2004	Primary	Fill	Unsaturated	EPA 8310	<0.17	<0.33	<0.017	**0.061**	<0.017	**0.042**	<0.33	<0.017	**0.041**	<0.33	**0.17**	<0.033	<0.17	<0.17	**0.019**	**0.07**
CHSB-4	3.5	2/25/2004	Primary	Fill	Unsaturated	EPA 8310	<0.17	<0.33	<0.017	**0.032**	**0.033**	**0.032**	<0.33	**0.018**	**0.039**	<0.33	**0.057**	<0.033	<0.17	<0.17	**0.023**	**0.064**
CHSB-5	0.5	2/24/2004	Primary	Fill	Unsaturated	EPA 8310	<0.17	<0.33	**0.09**	**0.28**	**0.49**	**0.55**	**0.73**	**0.2**	**0.34**	**0.67**	**1.1**	**0.033**	**1**	<0.17	**0.69**	**1.4**
CHSB-5	3.5	2/24/2004	Primary	Fill	Unsaturated	EPA 8310	<0.17	<0.33	<0.017	**0.033**	**0.048**	**0.054**	**0.068**	**0.018**	**0.048**	**0.092**	**0.06**	<0.033	**0.053**	<0.17	**0.024**	**0.082**
CHSB-6	0.5	2/25/2004	Primary	Fill	Unsaturated	EPA 8310	<0.17	<0.33	**0.083**	**0.33**	**0.55**	**0.73**	**0.87**	**0.24**	**0.43**	**0.95**	**1.4**	**0.082**	**1.3**	<0.17	**0.82**	**1.5**
CHSB-6	3.5	2/25/2004	Primary	Bedrock	Unsaturated	EPA 8310	**0.81**	<0.33	**0.15**	**0.91**	**1.5**	**1.9**	**2.2**	**0.76**	**1.1**	**2.5**	**2.3**	**0.066**	**3**	**0.21**	**1**	**3.3**
CHSB-7	0.5	2/25/2004	Primary	Fill	Unsaturated	EPA 8310	<0.17	<0.33	**0.29**	**0.83**	**1.5**	**1.8**	**1.6**	**0.6**	**1.1**	**2.5**	**3.1**	**0.052**	**2.9**	<0.17	**1.1**	**4.3**
CHSB-7	3.5	2/25/2004	Primary	Fill	Unsaturated	EPA 8310	<0.17	<0.33	<0.017	<0.017	<0.017	<0.017	<0.033	<0.017	<0.017	<0.033	<0.017	<0.033	<0.017	<0.17	<0.017	<0.017
CHSB-8	0.5	2/24/2004	Primary	Fill	Unsaturated	EPA 8310	<0.17	<0.33	**0.024**	**0.081**	**0.08**	**0.1**	**0.12**	**0.051**	**0.091**	**0.077**	**0.28**	<0.033	**0.11**	<0.17	**0.17**	**0.25**
CHSB-8	3.5	2/24/2004	Primary	Bedrock	Unsaturated	EPA 8310	<0.17	<0.33	<0.017	<0.017	<0.017	<0.017	<0.033	<0.017	<0.017	<0.033	<0.017	<0.033	<0.017	<0.17	<0.017	<0.017

Notes:
1. Soil samples analyzed for polycyclic aromatic hydrocarbons (PAHs) using EPA Methods 8270 or 8310.
2. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations
"**Bold**" = detected above the laboratory reporting limit
EPA = U.S. Environmental Protection Agency
feet bgs = feet below ground surface
< = not detected above the laboratory reporting limit
-- = not analyzed

TABLE C-3

SUMMARY OF ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS (PCBs) SOIL SAMPLES[1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260	PCBs, total
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16--Analytical results reported in dry weight													
B-POT-1	2.5	2/28/1991	Primary	Fill	Unsaturated	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021
B-POT-2	4.5	2/27/1991	Primary	Bedrock	Unsaturated	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
B-POT-3	3.5	2/22/1991	Primary	Fill/Brown	Unsaturated	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
POT-9	3.5	3/4/1991	Primary	Fill/Brown	Unsaturated	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
POT-14	3.5	3/5/1991	Primary	Fill/Brown	Unsaturated	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
POT-15	3.5	3/1/1991	Primary	Fill	Unsaturated	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
SS-APT-1	0.5	2/25/1991	Primary	Fill	Unsaturated	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	**2.8**	**2.8**
SS-POT-1	0.5	3/1/1991	Primary	Fill	Unsaturated	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
SS-POT-3	0.5	3/5/1991	Primary	Fill	Unsaturated	<0.024	<0.024	<0.024	<0.024	<0.024	**0.092**	<0.024	**0.092**
SS-POT-6	0.5	3/5/1991	Primary	Fill	Unsaturated	<0.043	<0.043	<0.043	<0.043	<0.043	**0.3**	<0.043	**0.3**
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June--Analytical results reported in wet weight													
TB1-001	1	12/8/1997	Primary	Fill/Brown	Unsaturated	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TB1-001	6	12/8/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB1-002	1	12/4/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB1-002	1	12/4/1997	Duplicate	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB1-002	6	12/9/1997	Primary	Fill/Green	Unsaturated	<0.1	<0.16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.16
TB1-002	6	12/9/1997	Duplicate	Fill/Green	Unsaturated	<0.2	<0.32	<0.2	<0.2	<0.2	<0.2	<0.2	<0.32
TB1-003	1	11/25/1997	Primary	Fill	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB1-003	9	12/10/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB1-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.111**	**0.111**
TB1-008	6	12/4/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB1-009	1	10/15/1997	Primary	Fill	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB1-009	8	10/15/1997	Primary	Fill	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB1-010	1	12/9/1997	Primary	Fill/Brown	Unsaturated	<0.3	<0.48	<0.3	<0.3	<0.3	<0.3	<0.3	<0.48
TB1-010	6	12/9/1997	Primary	Fill	Unsaturated	<0.1	<0.16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.16
TB1-011	1	12/9/1997	Primary	Fill/Brown	Unsaturated	<0.3	<0.48	<0.3	<0.3	<0.3	<0.3	<0.3	<0.48
TB1-011	1	12/9/1997	Duplicate	Fill/Brown	Unsaturated	<1	<1.6	<1	<1	<1	<1	<1	<1.6
TB1-011	9	12/9/1997	Primary	Bedrock	Unsaturated	<0.1	<0.16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.16
TB1-012	1	11/25/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB1-012	1	12/8/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB1-012	1	12/8/1997	Duplicate	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB1-012	6	12/8/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB1-012	10	12/8/1997	Primary	Fill/Green	Unsaturated	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TB2-001	1	11/26/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB2-001	1	11/26/1997	Duplicate	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB2-001	7	11/26/1997	Primary	Bedrock	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB2-002	1	11/26/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

TABLE C-3

SUMMARY OF ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS (PCBs) SOIL SAMPLES[1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260	PCBs, total
TB2-002	7	11/26/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB2-003	1	12/2/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB2-003	6	12/2/1997	Primary	Bedrock	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB2-004	2	11/26/1997	Primary	Fill	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB2-004	6	11/26/1997	Primary	Bedrock	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB2-005	1	11/21/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB2-005	6	11/25/1997	Primary	Bedrock	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB2-005	6	11/25/1997	Duplicate	Bedrock	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB2-006	1	11/21/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB2-006	6	11/21/1997	Primary	Fill	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB2-006	10	11/21/1997	Primary	Bedrock	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-002	1	12/8/1997	Primary	Fill/Brown	Unsaturated	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TB4-002	1	12/8/1997	Duplicate	Fill/Brown	Unsaturated	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TB4-002	6	12/8/1997	Primary	Bedrock	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-003	7	11/26/1997	Primary	Fill/Green	Saturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-004	1	12/8/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-004	7	12/8/1997	Primary	Interface	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-005	1	12/3/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-005	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TB4-005	6	12/3/1997	Primary	Bedrock	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-006	1	12/3/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-006	6	12/3/1997	Primary	Bedrock	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-007	2	12/8/1997	Primary	Fill/Brown	Unsaturated	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TB4-007	6	12/8/1997	Primary	Fill/Brown	Unsaturated	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TB4-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-008	1	12/4/1997	Duplicate	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-008	4	12/4/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-008	6	12/4/1997	Primary	Fill	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-009	1	12/2/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-009	1	12/2/1997	Duplicate	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-009	6	12/2/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-010	1	12/2/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-010	6	12/2/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-011	1	12/3/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-011	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-011	6	12/3/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-012	3	12/1/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-012	6	12/1/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

TABLE C-3

SUMMARY OF ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS (PCBs) SOIL SAMPLES[1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260	PCBs, total
TB4-013	1	12/1/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-013	1	12/1/1997	Duplicate	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-013	6	12/1/1997	Primary	Fill/Brown	Saturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-014	1	12/3/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-014	6	12/3/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-015	1	12/1/1997	Primary	Fill	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-015	6	12/1/1997	Primary	Fill	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB5-001	1	12/2/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB5-001	6	12/2/1997	Primary	Fill/Green	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB5-002	1	11/26/1997	Primary	Fill	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB5-002	6	11/26/1997	Primary	Fill	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB5-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB5-003	6	11/26/1997	Primary	Bedrock	Unsaturated	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
TS1-017	1	12/9/1997	Primary	Fill	Unsaturated	<0.1	<0.16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.16
TS1-018	1	12/9/1997	Primary	Fill	Unsaturated	<0.3	<0.48	<0.3	<0.3	<0.3	<0.3	<0.3	<0.48
TS1-019	1	12/9/1997	Primary	Fill	Unsaturated	<0.1	<0.16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.16
TS4-016	1	12/10/1997	Primary	Fill	Unsaturated	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.0851**	**0.0851**

Notes:

1. Soil samples analyzed for polycyclic biphenyls (PCBs) using EPA Method 8080 or 8081A.
2. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations

"**Bold**" = detected above the laboratory reporting limit NA = not applicable
EPA = U.S. Environmental Protection Agency
feet bgs = feet below ground surface
< = not detected above the laboratory reporting limit
-- = not analyzed

TABLE C-4

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN SOIL SAMPLES[1]

Potrero Power Plant

San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Benzene	Toluene	Ethyl-benzene	Xylene, 1,2-	Xylene, 1,3- and/or 1,4-	Xylenes, total	Chloro-benzene	Dichloro-benzene, 1,2-	Dichloro-benzene, 1,3-	Dichloro-benzene, 1,4-	Bromo-benzene	Bromo-chloro-methane	Bromo-dichloro-methane	Bromo-form	Bromo-methane	Butyl-benzene, 1-	Butyl-benzene, sec-	Butyl-benzene, tert-	Carbon tetra-chloride	Chloro-ethane
Ecology & the Environment, 1990, Site Characterization Report, Potrero Power Plant, October 26. [2, 3]																										
T-5 [4]	2.5	1989	Unknown	Bedrock	Unsaturated	Unknown	ND	**0.004**	**0.042**	--	--	**0.007**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T-10 [4]	2	1989	Unknown	Bedrock	Unsaturated	Unknown	ND	**0.004**	**0.005**	--	--	**0.002**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-1	1	11/9/1989	Drive-sample [5]	Fill	Unsaturated	EPA 8020	<0.001	**0.017**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
B-1	4	11/9/1989	Auger [6]	Fill	Unsaturated	EPA 8020	<0.001	**0.010**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
B-1	6	11/9/1989	Auger	Bedrock	Unsaturated	EPA 8020	<0.005	**0.013**	<0.005	--	--	**0.032**	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--
B-1	6.5	11/9/1989	Auger	Bedrock	Unsaturated	EPA 8020	<0.005	**0.041**	<0.005	--	--	**0.053**	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--
B-1	9.5	11/9/1989	Drive-sample	Bedrock	Saturated	EPA 8020	<0.01	**0.074**	**0.146**	--	--	**0.729**	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--
B-1	10.5	11/9/1989	Auger	Bedrock	Saturated	EPA 8020	<0.01	**0.021**	<0.01	--	--	**0.099**	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--
B-2	2	11/9/1989	Auger	Fill	Unsaturated	EPA 8020	<0.001	**0.229**	<0.001	--	--	**0.013**	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
B-2	2.5	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8020	<0.001	**0.043**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
B-2	4	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8020	<0.001	**0.019**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
B-2	5	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8020	<0.001	**0.026**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
B-2	7	11/9/1989	Drive-sample	Bedrock	Saturated	EPA 8020	<0.001	**0.008**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
B-2	9	11/9/1989	Auger	Bedrock	Saturated	EPA 8020	<0.001	**0.008**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
B-2	14	11/9/1989	Auger	Bedrock	Saturated	EPA 8020	<0.001	**0.012**	<0.001	--	--	**0.018**	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
B-3	4	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8020	<0.001	**0.023**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
B-3	6	11/9/1989	Auger	Bedrock	Unsaturated	EPA 8020	<0.001	**0.037**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
B-3	9.5	11/9/1989	Auger	Bedrock	Saturated	EPA 8020	<0.001	**0.051**	<0.001	--	--	**0.028**	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
B-3	14	11/9/1989	Auger	Bedrock	Saturated	EPA 8020	<0.001	**0.014**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
B-4	4	11/--/1989	Auger	Fill	Unsaturated	EPA 8020	<0.001	**0.091**	<0.001	--	--	**0.004**	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
B-5	4	11/--/1989	Auger	Fill	Unsaturated	EPA 8020	<0.001	**0.052**	<0.001	--	--	**0.018**	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
MW-1	2.5	11/10/1989	Drive-sample	Bedrock	Saturated	EPA 8020	<0.001	**0.023**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
MW-1	4.5	11/10/1989	Auger	Bedrock	Saturated	EPA 8020	<0.001	**0.114**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
MW-1	6	11/10/1989	Auger	Bedrock	Saturated	EPA 8020	<0.005	<0.005	**0.014**	--	--	**0.084**	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--
MW-1	9	11/10/1989	Auger	Bedrock	Unsaturated	EPA 8020	<0.01	**0.08**	<0.01	--	--	**0.15**	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--
MW-1	14	11/10/1989	Auger	Bedrock	Unsaturated	EPA 8020	<0.025	**0.059**	**0.137**	--	--	**0.776**	<0.025	<0.025	<0.025	<0.025	--	--	--	--	--	--	--	--	--	--
MW-2	4	11/10/1989	Drive-sample	Bedrock	Saturated	EPA 8020	<0.001	**0.055**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
MW-2	4.5	11/10/1989	Auger	Bedrock	Saturated	EPA 8020	<0.001	**0.01**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
MW-2	6	11/10/1989	Auger	Bedrock	Saturated	EPA 8020	<0.001	**0.02**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
MW-2	9	11/10/1989	Auger	Bedrock	Saturated	EPA 8020	<0.001	**0.023**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
MW-2	14.5	11/10/1989	Auger	Bedrock	Unsaturated	EPA 8020	<0.001	**0.011**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
MW-4B	4.5	11/10/1989	Drive-sample	Fill	Unsaturated	EPA 8020	<0.001	**0.004**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-4B	9.5	11/10/1989	Auger	Fill	Unsaturated	EPA 8020	<0.001	**0.037**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	5	11/9/1989	Drive-sample	Fill	Saturated	EPA 8020	<0.001	**0.012**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
MW-5	6	11/9/1989	Auger	Fill	Saturated	EPA 8020	<0.001	**0.012**	<0.001	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
MW-5	9.5	11/9/1989	Drive-sample	Fill	Saturated	EPA 8020	**0.01**	**0.046**	**0.004**	--	--	**0.013**	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16--Analytical results reported in dry weight																										
B-POT-2	4.5	2/27/1991	Primary	Bedrock	Unsaturated	EPA 8020	<0.0011	<0.0011	<0.0011	--	--	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	--	--	--	--	--	--	--	--	--	--
B-POT-2	6.5	2/27/1991	Primary	Bedrock	Unsaturated	EPA 8020	<0.0011	<0.0011	<0.0011	--	--	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	--	--	--	--	--	--	--	--	--	--
B-POT-3	3.5	2/22/1991	Primary	Fill/Brown	Unsaturated	EPA 8020	<0.00034	<0.00034	<0.00034	--	--	<0.0011	<0.00034	<0.0011	<0.0008	<0.0008	--	--	--	--	--	--	--	--	--	--
B-POT-3	6	2/22/1991	Primary	Fill/Green	Unsaturated	EPA 8020	<0.00033	<0.00033	<0.00033	--	--	<0.0011	<0.00033	<0.0011	<0.00078	<0.00078	--	--	--	--	--	--	--	--	--	--
B-POT-3	10	2/22/1991	Primary	Fill/Brown	Unsaturated	EPA 8020	<1.3	<1.3	<1.3	--	--	<1.3	<1.3	<1.3	<1.3	<1.3	--	--	--	--	--	--	--	--	--	--
B-POT-3	12	2/22/1991	Primary	Fill/Green	Saturated	EPA 8020	<1.3	<1.3	<1.3	--	--	**2.8**	<1.3	<1.3	<1.3	<1.3	--	--	--	--	--	--	--	--	--	--
POT-9	3.5	3/4/1991	Primary	Bedrock	Unsaturated	EPA 8020	<0.00038	<0.00038	<0.00038	--	--	<0.0012	<0.00038	<0.0012	<0.00088	<0.00088	--	--	--	--	--	--	--	--	--	--
POT-9	5.5	3/4/1991	Primary	Bedrock	Unsaturated	EPA 8020	<0.00035	<0.00035	<0.00035	--	--	<0.0012	<0.00035	<0.0012	<0.00082	<0.00082	--	--	--	--	--	--	--	--	--	--
POT-9	10	3/4/1991	Primary	Bedrock	Unsaturated	EPA 8020	<0.00038	<0.00038	<0.00038	--	--	**0.0054**	<0.00038	<0.0012	<0.00089	<0.00089	--	--	--	--	--	--	--	--	--	--
POT-9	25	3/4/1991	Primary	Bedrock	Saturated	EPA 8020	<0.00033	<0.00033	<0.00033	--	--	<0.0011	<0.00033	<0.0011	<0.00078	<0.00078	--	--	--	--	--	--	--	--	--	--
POT-14	3.5	3/5/1991	Primary	Fill/Brown	Unsaturated	EPA 8020	<0.00035	<0.00035	<0.00035	--	--	<0.0012	<0.00035	<0.0012	<0.00081	<0.00081	--	--	--	--	--	--	--	--	--	--
POT-14	6	3/5/1991	Primary	Interface	Saturated	EPA 8020	<0.00034	<0.00034	<0.00034	--	--	<0.0011	<0.00034	<0.0011	<0.00079	<0.00079	--	--	--	--	--	--	--	--	--	--
POT-14	20.5	3/5/1991	Primary	Bedrock	Saturated	EPA 8020	<0.00039	<0.00039	<0.00039	--	--	<0.0013	<0.00039	<0.0013	<0.00092	<0.00092	--	--	--	--	--	--	--	--	--	--
POT-15	3.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8020	<0.00034	<0.00034	<0.00034	--	--	<0.0011	<0.00034	<0.0011	<0.0008	<0.0008	--	--	--	--	--	--	--	--	--	--
POT-15	5.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8020	<0.00032	<0.00032	<0.00032	--	--	<0.001	<0.00032	<0.001	<0.00074	<0.00074	--	--	--	--	--	--	--	--	--	--
POT-15	8.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8020	<0.00037	<0.00037	<0.00037	--	--	<0.0012	<0.00037	<0.0012	<0.00086	<0.00086	--	--	--	--	--	--	--	--	--	--
POT-15	16.5	3/1/1991	Primary	Fill	Saturated	EPA 8020	<0.0018	<0.0018	<0.0018	--	--	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	--	--	--	--	--	--	--	--	--	--
PG&E, Technical and Ecological Services (TES), 1991, Soil Investigation Results For Diesel Dump Tank and Associated Piping Replacement Project, Potrero Power Plant, June [7]																										
TES-SB1	8.0	4/29/1991	Primary	Bedrock	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB2	3.5	4/29/1991	Primary	Fill	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB3	2.5	4/29/1991	Primary	Fill	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB4	2.5	4/29/1991	Primary	Fill	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB5	2.5	4/29/1991	Primary	Bedrock	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB6	2.0	4/29/1991	Primary	Bedrock	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB7	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE C-4

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN SOIL SAMPLES[1]

Potrero Power Plant

San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Chloro-form	Chloro-methane	Chloro-toluene, 2-	Chloro-toluene, 4-	Dibromo-chloro-methane	Dibromo-chloro-propane	Dichloro-difluoro-methane	Dichloro-ethane, 1,1-	Dichloro-ethane, 1,2-	Dichloro-ethene, 1,1-	Dichloro-ethene, 1,2-, cis-	Dichloro-ethene, 1,2-, trans-	Dichloro-ethenes, 1,2-, total	Dichloro-propane, 1,2-	Dichloro-propane, 1,3-	Dichloro-propane, 2,2-	Dichloro-propene, 1,1-	Ethylene dibromide	Hexa-chloro-butadiene
Ecology & the Environment, 1990, Site Characterization Report, Potrero Power Plant, October 26. [2, 3]																									
T-5 [4]	2.5	1989	Unknown	Bedrock	Unsaturated	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T-10 [4]	2	1989	Unknown	Bedrock	Unsaturated	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-1	1	11/9/1989	Drive-sample [5]	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-1	4	11/9/1989	Auger [6]	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-1	6	11/9/1989	Auger	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-1	6.5	11/9/1989	Auger	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-1	9.5	11/9/1989	Drive-sample	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-1	10.5	11/9/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	2	11/9/1989	Auger	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	2.5	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	4	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	5	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	7	11/9/1989	Drive-sample	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	9	11/9/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	14	11/9/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-3	4	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-3	6	11/9/1989	Auger	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-3	9.5	11/9/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-3	14	11/9/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-4	4	11/--/1989	Auger	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-5	4	11/--/1989	Auger	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	2.5	11/10/1989	Drive-sample	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	4.5	11/10/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	6	11/10/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	9	11/10/1989	Auger	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	14	11/10/1989	Auger	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4	11/10/1989	Drive-sample	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4.5	11/10/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	6	11/10/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	9	11/10/1989	Auger	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	14.5	11/10/1989	Auger	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4B	4.5	11/10/1989	Drive-sample	Fill	Unsaturated	EPA 8020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-4B	9.5	11/10/1989	Auger	Fill	Unsaturated	EPA 8020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	5	11/9/1989	Drive-sample	Fill	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	6	11/9/1989	Auger	Fill	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	9.5	11/9/1989	Drive-sample	Fill	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16--Analytical results reported in dry weight																									
B-POT-2	4.5	2/27/1991	Primary	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-2	6.5	2/27/1991	Primary	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-3	3.5	2/22/1991	Primary	Fill/Brown	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-3	6	2/22/1991	Primary	Fill/Green	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-3	10	2/22/1991	Primary	Fill/Brown	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-3	12	2/22/1991	Primary	Fill/Green	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-9	3.5	3/4/1991	Primary	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-9	5.5	3/4/1991	Primary	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-9	10	3/4/1991	Primary	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-9	25	3/4/1991	Primary	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-14	3.5	3/5/1991	Primary	Fill/Brown	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-14	6	3/5/1991	Primary	Interface	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-14	20.5	3/5/1991	Primary	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	3.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	5.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	8.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	16.5	3/1/1991	Primary	Fill	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PG&E, Technical and Ecological Services (TES), 1991, Soil Investigation Results For Diesel Dump Tank and Associated Piping Replacement Project, Potrero Power Plant, June [7]																									
TES-SB1	8.0	4/29/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB2	3.5	4/29/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB3	2.5	4/29/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB4	2.5	4/29/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB5	2.5	4/29/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB6	2.0	4/29/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB7	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE C-4

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN SOIL SAMPLES[1]

Potrero Power Plant

San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Iso-propyl-benzene	Isopropy-ltoluene, 4-	Methylene bromide	Methylene chloride	Naph-thalene	Propyl-benzene, 1-	Styrene	Tetra-chloro-ethane, 1,1,1,2-	Tetra-chloro-ethane, 1,1,2,2-	Tetra-chloro-ethene	Trichloro-benzene, 1,2,3-	Trichloro-benzene, 1,2,4-	Trichloro-ethane, 1,1,1-	Trichloro-ethane, 1,1,2-	Trichloro-ethene	Trichloro-fluoro-methane	Trichloro-propane, 1,2,3-	Trimethyl-benzene, 1,2,4-	Trimethyl-benzene, 1,3,5-	Vinyl chloride
Ecology & the Environment, 1990, Site Characterization Report, Potrero Power Plant, October 26. [2,3]																										
T-5 [4]	2.5	1989	Unknown	Bedrock	Unsaturated	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T-10 [4]	2	1989	Unknown	Bedrock	Unsaturated	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-1	1	11/9/1989	Drive-sample [5]	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-1	4	11/9/1989	Auger [6]	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-1	6	11/9/1989	Auger	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-1	6.5	11/9/1989	Auger	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-1	9.5	11/9/1989	Drive-sample	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-1	10.5	11/9/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	2	11/9/1989	Auger	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	2.5	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	4	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	5	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	7	11/9/1989	Drive-sample	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	9	11/9/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	14	11/9/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-3	4	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-3	6	11/9/1989	Auger	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-3	9.5	11/9/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-3	14	11/9/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-4	4	11/--/1989	Auger	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-5	4	11/--/1989	Auger	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	2.5	11/10/1989	Drive-sample	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	4.5	11/10/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	6	11/10/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	9	11/10/1989	Auger	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	14	11/10/1989	Auger	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4	11/10/1989	Drive-sample	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4.5	11/10/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	6	11/10/1989	Auger	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	9	11/10/1989	Auger	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	14.5	11/10/1989	Auger	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4B	4.5	11/10/1989	Drive-sample	Fill	Unsaturated	EPA 8020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
MW-4B	9.5	11/10/1989	Auger	Fill	Unsaturated	EPA 8020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	--
MW-5	5	11/9/1989	Drive-sample	Fill	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	6	11/9/1989	Auger	Fill	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	9.5	11/9/1989	Drive-sample	Fill	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16--Analytical results reported in dry weight																										
B-POT-2	4.5	2/27/1991	Primary	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-2	6.5	2/27/1991	Primary	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-3	3.5	2/22/1991	Primary	Fill/Brown	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-3	6	2/22/1991	Primary	Fill/Green	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-3	10	2/22/1991	Primary	Fill/Brown	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-3	12	2/22/1991	Primary	Fill/Green	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-9	3.5	3/4/1991	Primary	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-9	5.5	3/4/1991	Primary	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-9	10	3/4/1991	Primary	Bedrock	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-9	25	3/4/1991	Primary	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-14	3.5	3/5/1991	Primary	Fill/Brown	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-14	6	3/5/1991	Primary	Interface	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-14	20.5	3/5/1991	Primary	Bedrock	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	3.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	5.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	8.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	16.5	3/1/1991	Primary	Fill	Saturated	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PG&E, Technical and Ecological Services (TES), 1991, Soil Investigation Results For Diesel Dump Tank and Associated Piping Replacement Project, Potrero Power Plant, June [7]																										
TES-SB1	8.0	4/29/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB2	3.5	4/29/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB3	2.5	4/29/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB4	2.5	4/29/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB5	2.5	4/29/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB6	2.0	4/29/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB7	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE C-4

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN SOIL SAMPLES[1]

Potrero Power Plant

San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Benzene	Toluene	Ethyl-benzene	Xylene, 1,2-	Xylene, 1,3- and/or 1,4-	Xylenes, total	Chloro-benzene	Dichloro-benzene, 1,2-	Dichloro-benzene, 1,3-	Dichloro-benzene, 1,4-	Bromo-benzene	Bromo-chloro-methane	Bromo-dichloro-methane	Bromo-form	Bromo-methane	Butyl-benzene, 1-	Butyl-benzene, sec-	Butyl-benzene, tert-	Carbon tetra-chloride	Chloro-ethane
TES-SB8	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB9	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB10	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB11	3.0	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB12	3.0	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB13	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB14	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB15	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB16	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB17	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB18	8.5	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB19	7.5	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB20	4.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	<0.5	<0.5	**0.9**	--	--	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB21	3.0	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB22	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	**0.007**	**0.009**	<0.005	--	--	**0.012**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB23	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB24	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB25	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB26	9.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	<0.5	<0.5	<0.5	--	--	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB27	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	<0.005	<0.005	<0.005	--	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June--Analytical results reported in wet weight																										
TB1-001	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-001	6	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-001	11	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-002	1	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-002	1	12/4/1997	Duplicate	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-002	6	12/9/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-002	6	12/9/1997	Duplicate	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-002	11	12/9/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-002	16	12/9/1997	Primary	Fill/Green	Saturated	EPA 8260B	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.5	<0.25	<0.25	<0.25	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.5
TB1-002	22	12/9/1997	Primary	Fill/Green	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-003	1	11/25/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-003	9	12/10/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-003	13	12/10/1997	Primary	Fill/Green	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-008	6	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-008	11	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-010	1	12/9/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-010	6	12/9/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-010	11	12/9/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-011	1	12/9/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-011	1	12/9/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-011	9	12/9/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-011	13	12/9/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-012	1	11/25/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	**0.00581**	**0.00581**	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-012	1	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-012	1	12/8/1997	Duplicate	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-012	6	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-012	10	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-001	1	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-001	1	11/26/1997	Duplicate	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-001	7	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-001	12	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-002	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	**0.0157**	**0.00586**	**0.00809**	**0.0226**	**0.03069**	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-002	7	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-002	12	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-003	1	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-003	6	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-003	10	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-004	2	11/26/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-004	6	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-004	10	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-004	10	11/26/1997	Duplicate	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01

TABLE C-4

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN SOIL SAMPLES[1]

Potrero Power Plant

San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Chloro-form	Chloro-methane	Chloro-toluene, 2-	Chloro-toluene, 4-	Dibromo-chloro-methane	Dibromo-chloro-propane	Dichloro-difluoro-methane	Dichloro-ethane, 1,1-	Dichloro-ethane, 1,2-	Dichloro-ethene, 1,1-	Dichloro-ethene, 1,2-, cis-	Dichloro-ethene, 1,2-, trans-	Dichloro-ethenes, 1,2-, total	Dichloro-propane, 1,2-	Dichloro-propane, 1,3-	Dichloro-propane, 2,2-	Dichloro-propene, 1,1-	Ethylene dibromide	Hexa-chloro-butadiene
TES-SB8	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB9	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB10	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB11	3.0	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB12	3.0	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB13	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB14	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB15	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB16	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB17	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB18	8.5	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB19	7.5	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB20	4.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB21	3.0	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB22	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB23	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB24	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB25	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB26	9.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB27	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June--Analytical results reported in wet weight																									
TB1-001	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-001	6	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-001	11	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-002	1	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-002	1	12/4/1997	Duplicate	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-002	6	12/9/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-002	6	12/9/1997	Duplicate	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-002	11	12/9/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-002	16	12/9/1997	Primary	Fill/Green	Saturated	EPA 8260B	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	-	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
TB1-002	22	12/9/1997	Primary	Fill/Green	Saturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-003	1	11/25/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-003	9	12/10/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-003	13	12/10/1997	Primary	Fill/Green	Saturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-008	6	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-008	11	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-010	1	12/9/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-010	6	12/9/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-010	11	12/9/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-011	1	12/9/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-011	1	12/9/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-011	9	12/9/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-011	13	12/9/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-012	1	11/25/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-012	1	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-012	1	12/8/1997	Duplicate	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-012	6	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-012	10	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-001	1	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-001	1	11/26/1997	Duplicate	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-001	7	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-001	12	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-002	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-002	7	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-002	12	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-003	1	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-003	6	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-003	10	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-004	2	11/26/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-004	6	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-004	10	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-004	10	11/26/1997	Duplicate	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

TABLE C-4

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN SOIL SAMPLES[1]

Potrero Power Plant

San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Iso-propyl-benzene	Isopropy-ltoluene, 4-	Methylene bromide	Methylene chloride	Naph-thalene	Propyl-benzene, 1-	Styrene	Tetra-chloro-ethane, 1,1,1,2-	Tetra-chloro-ethane, 1,1,2,2-	Tetra-chloro-ethene	Trichloro-benzene, 1,2,3-	Trichloro-benzene, 1,2,4-	Trichloro-ethane, 1,1,1-	Trichloro-ethane, 1,1,2-	Trichloro-ethene	Trichloro-fluoro-methane	Trichloro-propane, 1,2,3-	Trimethyl-benzene, 1,2,4-	Trimethyl-benzene, 1,3,5-	Vinyl chloride
TES-SB8	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB9	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB10	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB11	3.0	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB12	3.0	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB13	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB14	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB15	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB16	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB17	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB18	8.5	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB19	7.5	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB20	4.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB21	3.0	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB22	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB23	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB24	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB25	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB26	9.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TES-SB27	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June--Analytical results reported in wet weight																										
TB1-001	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	**0.0683**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-001	6	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-001	11	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-002	1	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-002	1	12/4/1997	Duplicate	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-002	6	12/9/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-002	6	12/9/1997	Duplicate	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-002	11	12/9/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-002	16	12/9/1997	Primary	Fill/Green	Saturated	EPA 8260B	<0.25	<0.25	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.1
TB1-002	22	12/9/1997	Primary	Fill/Green	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-003	1	11/25/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-003	9	12/10/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-003	13	12/10/1997	Primary	Fill/Green	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-008	6	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-008	11	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-010	1	12/9/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-010	6	12/9/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-010	11	12/9/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-011	1	12/9/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-011	1	12/9/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-011	9	12/9/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-011	13	12/9/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-012	1	11/25/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-012	1	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-012	1	12/8/1997	Duplicate	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-012	6	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB1-012	10	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-001	1	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-001	1	11/26/1997	Duplicate	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-001	7	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-001	12	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-002	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-002	7	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-002	12	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-003	1	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-003	6	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-003	10	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-004	2	11/26/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-004	6	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-004	10	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-004	10	11/26/1997	Duplicate	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002

TABLE C-4

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN SOIL SAMPLES[1]

Potrero Power Plant

San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Benzene	Toluene	Ethyl-benzene	Xylene, 1,2-	Xylene, 1,3- and/or 1,4-	Xylenes, total	Chloro-benzene	Dichloro-benzene, 1,2-	Dichloro-benzene, 1,3-	Dichloro-benzene, 1,4-	Bromo-benzene	Bromo-chloro-methane	Bromo-dichloro-methane	Bromo-form	Bromo-methane	Butyl-benzene, 1-	Butyl-benzene, sec-	Butyl-benzene, tert-	Carbon tetra-chloride	Chloro-ethane
TB2-005	1	11/21/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-005	6	11/25/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-005	6	11/25/1997	Duplicate	Bedrock	Unsaturated	EPA 8260B	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.5	<0.25	<0.25	<0.25	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.5
TB2-005	10	11/25/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.5	<0.25	<0.25	<0.25	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.5
TB2-006	1	11/21/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-006	6	11/21/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB2-006	10	11/21/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-002	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-002	1	12/8/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-002	6	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-003	7	11/26/1997	Primary	Fill/Green	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-003	12	12/1/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-004	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-004	7	12/8/1997	Primary	Interface	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	**0.0104**	<0.005	<0.005	<0.005	<0.01
TB4-004	11	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-005	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-005	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-005	6	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-005	10	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-005	15	12/3/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-006	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-006	6	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-006	10	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-006	15	12/3/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.1
TB4-007	2	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-007	6	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2
TB4-007	20	12/8/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2
TB4-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-008	1	12/4/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-008	4	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-008	6	12/4/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-008	10	12/4/1997	Primary	Fill	Unsaturated	EPA 8260B	**0.0134**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-008	15	12/4/1997	Primary	Fill	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-008	20	12/4/1997	Primary	Fill/Green	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-008	30	12/4/1997	Primary	Fill/Brown	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-009	1	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-009	1	12/2/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-009	6	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-009	11	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-009	16	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-009	21	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1
TB4-010	1	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-010	6	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-010	10	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-011	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-011	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-011	6	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-011	11	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-011	21	12/3/1997	Primary	Fill	Saturated	EPA 8260B	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.5	<0.25	<0.25	<0.25	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.5
TB4-011	26	12/3/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-012	3	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-012	6	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-012	10	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-013	1	12/1/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-013	1	12/1/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-013	6	12/1/1997	Primary	Fill/Brown	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-013	11	12/1/1997	Primary	Bedrock	Saturated	EPA 8260B	**0.01**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-014	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-014	6	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-014	11	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<5	<5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<5
TB4-014	21	12/3/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1
TB4-015	1	12/1/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01

TABLE C-4

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN SOIL SAMPLES[1]

Potrero Power Plant

San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Chloro-form	Chloro-methane	Chloro-toluene, 2-	Chloro-toluene, 4-	Dibromo-chloro-methane	Dibromo-chloro-propane	Dichloro-difluoro-methane	Dichloro-ethane, 1,1-	Dichloro-ethane, 1,2-	Dichloro-ethene, 1,1-	Dichloro-ethene, 1,2-, cis-	Dichloro-ethene, 1,2-, trans-	Dichloro-ethenes, 1,2-, total	Dichloro-propane, 1,2-	Dichloro-propane, 1,3-	Dichloro-propane, 2,2-	Dichloro-propene, 1,1-	Ethylene dibromide	Hexa-chloro-butadiene
TB2-005	1	11/21/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-005	6	11/25/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-005	6	11/25/1997	Duplicate	Bedrock	Unsaturated	EPA 8260B	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	-	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
TB2-005	10	11/25/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	-	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
TB2-006	1	11/21/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-006	6	11/21/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB2-006	10	11/21/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-002	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-002	1	12/8/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-002	6	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-003	7	11/26/1997	Primary	Fill/Green	Saturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-003	12	12/1/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-004	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-004	7	12/8/1997	Primary	Interface	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-004	11	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-005	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-005	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-005	6	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-005	10	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-005	15	12/3/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-006	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-006	6	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-006	10	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-006	15	12/3/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TB4-007	2	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-007	6	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TB4-007	20	12/8/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TB4-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-008	1	12/4/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-008	4	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-008	6	12/4/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-008	10	12/4/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-008	15	12/4/1997	Primary	Fill	Saturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-008	20	12/4/1997	Primary	Fill/Green	Saturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-008	30	12/4/1997	Primary	Fill/Brown	Saturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-009	1	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-009	1	12/2/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-009	6	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-009	11	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-009	16	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-009	21	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TB4-010	1	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-010	6	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-010	10	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-011	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-011	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-011	6	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-011	11	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-011	21	12/3/1997	Primary	Fill	Saturated	EPA 8260B	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	-	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
TB4-011	26	12/3/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-012	3	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-012	6	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-012	10	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-013	1	12/1/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-013	1	12/1/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-013	6	12/1/1997	Primary	Fill/Brown	Saturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-013	11	12/1/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-014	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-014	6	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-014	11	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	-	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
TB4-014	21	12/3/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TB4-015	1	12/1/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

TABLE C-4

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN SOIL SAMPLES[1]

Potrero Power Plant

San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Iso-propyl-benzene	Isopropy-ltoluene, 4-	Methylene bromide	Methylene chloride	Naph-thalene	Propyl-benzene, 1-	Styrene	Tetra-chloro-ethane, 1,1,1,2-	Tetra-chloro-ethane, 1,1,2,2-	Tetra-chloro-ethene	Trichloro-benzene, 1,2,3-	Trichloro-benzene, 1,2,4-	Trichloro-ethane, 1,1,1-	Trichloro-ethane, 1,1,2-	Trichloro-ethene	Trichloro-fluoro-methane	Trichloro-propane, 1,2,3-	Trimethyl-benzene, 1,2,4-	Trimethyl-benzene, 1,3,5-	Vinyl chloride
TB2-005	1	11/21/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-005	6	11/25/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-005	6	11/25/1997	Duplicate	Bedrock	Unsaturated	EPA 8260B	<0.25	<0.25	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.1
TB2-005	10	11/25/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.25	<0.25	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.1
TB2-006	1	11/21/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-006	6	11/21/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB2-006	10	11/21/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-002	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-002	1	12/8/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-002	6	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-003	7	11/26/1997	Primary	Fill/Green	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-003	12	12/1/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-004	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-004	7	12/8/1997	Primary	Interface	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	**0.0355**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0215**	**0.0135**	<0.002
TB4-004	11	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	**0.0381**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0102**	<0.005	<0.002
TB4-005	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-005	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-005	6	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-005	10	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-005	15	12/3/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-006	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-006	6	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-006	10	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-006	15	12/3/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02
TB4-007	2	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-007	6	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.1	<0.1	<0.1	<0.2	**0.607**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.04
TB4-007	20	12/8/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.1	<0.1	<0.1	<0.2	**0.304**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.04
TB4-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-008	1	12/4/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-008	4	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	**0.0108**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-008	6	12/4/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-008	10	12/4/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-008	15	12/4/1997	Primary	Fill	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-008	20	12/4/1997	Primary	Fill/Green	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-008	30	12/4/1997	Primary	Fill/Brown	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-009	1	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-009	1	12/2/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-009	6	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-009	11	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-009	16	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-009	21	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
TB4-010	1	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-010	6	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-010	10	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-011	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-011	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-011	6	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-011	11	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-011	21	12/3/1997	Primary	Fill	Saturated	EPA 8260B	<0.25	<0.25	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.1
TB4-011	26	12/3/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-012	3	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-012	6	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-012	10	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-013	1	12/1/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-013	1	12/1/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-013	6	12/1/1997	Primary	Fill/Brown	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-013	11	12/1/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-014	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-014	6	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-014	11	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1
TB4-014	21	12/3/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
TB4-015	1	12/1/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	**0.0579**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002

TABLE C-4

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN SOIL SAMPLES[1]

Potrero Power Plant

San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Benzene	Toluene	Ethyl-benzene	Xylene, 1,2-	Xylene, 1,3- and/or 1,4-	Xylenes, total	Chloro-benzene	Dichloro-benzene, 1,2-	Dichloro-benzene, 1,3-	Dichloro-benzene, 1,4-	Bromo-benzene	Bromo-chloro-methane	Bromo-dichloro-methane	Bromo-form	Bromo-methane	Butyl-benzene, 1-	Butyl-benzene, sec-	Butyl-benzene, tert-	Carbon tetra-chloride	Chloro-ethane
TB4-015	6	12/1/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-015	11	12/2/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-015	20	12/2/1997	Primary	Fill/Brown	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-015	30	12/2/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-017	36	3/3/1998	Primary	Fill/Brown	Saturated	EPA 8260	<0.005	<0.005	<0.005	--	--	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-017	41	3/3/1998	Primary	Fill/Brown	Saturated	EPA 8260	<0.005	<0.005	<0.005	--	--	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-017	41	3/3/1998	Duplicate	Fill/Brown	Saturated	EPA 8260	<0.005	<0.005	<0.005	--	--	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB4-017	46	3/3/1998	Primary	Fill/Brown	Saturated	EPA 8260	<0.005	<0.005	<0.005	--	--	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB5-001	1	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB5-001	6	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB5-001	10	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB5-001	15	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB5-002	1	11/26/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB5-002	6	11/26/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB5-002	10	11/26/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB5-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB5-003	6	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB5-003	10	11/26/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TS1-017	1	12/9/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TS1-018	1	12/9/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TS1-019	1	12/9/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TS4-016	1	12/10/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment Addendum, Potrero Power Plant, September--Analytical results reported in wet weight																										
TB1-030	1	6/30/1998	Primary	Fill	Unsaturated	EPA 8260	<0.005	<0.005	<0.005	--	--	**0.0017**	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-030	1	6/30/1998	Duplicate	Fill	Unsaturated	EPA 8260	<0.005	<0.005	<0.005	--	--	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-030	8	6/30/1998	Primary	Fill	Unsaturated	EPA 8260	<0.019	<0.019	<0.019	--	--	<0.019	<0.019	<0.038	<0.038	<0.038	<0.019	<0.019	<0.019	<0.019	<0.038	**0.018**	**0.053**	**0.013**	<0.019	<0.038
TB1-030	10	6/30/1998	Primary	Fill	Unsaturated	EPA 8260	**0.0016**	<0.005	<0.005	--	--	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-030	10	6/30/1998	Duplicate	Fill	Unsaturated	EPA 8260	**0.002**	**0.0022**	<0.005	--	--	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-030	15	6/30/1998	Primary	Fill	Saturated	EPA 8260	<0.025	<0.025	<0.025	--	--	<0.025	<0.025	<0.05	<0.05	<0.05	<0.025	<0.025	<0.025	<0.025	<0.05	<0.025	<0.025	<0.025	<0.025	<0.05
TB1-030	20	6/30/1998	Primary	Fill	Saturated	EPA 8260	<0.005	<0.005	<0.005	--	--	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01
TB1-030	25	6/30/1998	Primary	Bay Mud	Saturated	EPA 8260	<0.005	<0.005	<0.005	--	--	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01

TABLE C-4

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN SOIL SAMPLES[1]

Potrero Power Plant

San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Chloro-form	Chloro-methane	Chloro-toluene, 2-	Chloro-toluene, 4-	Dibromo-chloro-methane	Dibromo-chloro-propane	Dichloro-difluoro-methane	Dichloro-ethane, 1,1-	Dichloro-ethane, 1,2-	Dichloro-ethene, 1,1-	Dichloro-ethene, 1,2-, cis-	Dichloro-ethene, 1,2-, trans-	Dichloro-ethenes, 1,2-, total	Dichloro-propane, 1,2-	Dichloro-propane, 1,3-	Dichloro-propane, 2,2-	Dichloro-propene, 1,1-	Ethylene dibromide	Hexa-chloro-butadiene
TB4-015	6	12/1/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-015	11	12/2/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-015	20	12/2/1997	Primary	Fill/Brown	Saturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-015	30	12/2/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-017	36	3/3/1998	Primary	Fill/Brown	Saturated	EPA 8260	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-017	41	3/3/1998	Primary	Fill/Brown	Saturated	EPA 8260	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-017	41	3/3/1998	Duplicate	Fill/Brown	Saturated	EPA 8260	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-017	46	3/3/1998	Primary	Fill/Brown	Saturated	EPA 8260	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB5-001	1	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB5-001	6	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB5-001	10	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB5-001	15	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB5-002	1	11/26/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB5-002	6	11/26/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB5-002	10	11/26/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB5-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB5-003	6	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB5-003	10	11/26/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TS1-017	1	12/9/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TS1-018	1	12/9/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TS1-019	1	12/9/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TS4-016	1	12/10/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment Addendum, Potrero Power Plant, September--Analytical results reported in wet weight																									
TB1-030	1	6/30/1998	Primary	Fill	Unsaturated	EPA 8260	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-030	1	6/30/1998	Duplicate	Fill	Unsaturated	EPA 8260	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-030	8	6/30/1998	Primary	Fill	Unsaturated	EPA 8260	<0.019	<0.038	<0.019	<0.019	<0.019	<0.019	<0.038	<0.019	<0.019	<0.019	<0.019	<0.019	<0.038	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019
TB1-030	10	6/30/1998	Primary	Fill	Unsaturated	EPA 8260	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-030	10	6/30/1998	Duplicate	Fill	Unsaturated	EPA 8260	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-030	15	6/30/1998	Primary	Fill	Saturated	EPA 8260	<0.025	<0.05	<0.025	<0.025	<0.025	<0.025	<0.05	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
TB1-030	20	6/30/1998	Primary	Fill	Saturated	EPA 8260	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-030	25	6/30/1998	Primary	Bay Mud	Saturated	EPA 8260	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

TABLE C-4

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN SOIL SAMPLES[1]

Potrero Power Plant

San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	Iso-propyl-benzene	Isopropy-ltoluene, 4-	Methylene bromide	Methylene chloride	Naph-thalene	Propyl-benzene, 1-	Styrene	Tetra-chloro-ethane, 1,1,1,2-	Tetra-chloro-ethane, 1,1,2,2-	Tetra-chloro-ethene	Trichloro-benzene, 1,2,3-	Trichloro-benzene, 1,2,4-	Trichloro-ethane, 1,1,1-	Trichloro-ethane, 1,1,2-	Trichloro-ethene	Trichloro-fluoro-methane	Trichloro-propane, 1,2,3-	Trimethyl-benzene, 1,2,4-	Trimethyl-benzene, 1,3,5-	Vinyl chloride
TB4-015	6	12/1/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-015	11	12/2/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-015	20	12/2/1997	Primary	Fill/Brown	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-015	30	12/2/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB4-017	36	3/3/1998	Primary	Fill/Brown	Saturated	EPA 8260	<0.005	<0.005	<0.005	**0.01**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003
TB4-017	41	3/3/1998	Primary	Fill/Brown	Saturated	EPA 8260	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003
TB4-017	41	3/3/1998	Duplicate	Fill/Brown	Saturated	EPA 8260	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003
TB4-017	46	3/3/1998	Primary	Fill/Brown	Saturated	EPA 8260	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003
TB5-001	1	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB5-001	6	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB5-001	10	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB5-001	15	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB5-002	1	11/26/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB5-002	6	11/26/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB5-002	10	11/26/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB5-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB5-003	6	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TB5-003	10	11/26/1997	Primary	Bedrock	Saturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TS1-017	1	12/9/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TS1-018	1	12/9/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TS1-019	1	12/9/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
TS4-016	1	12/10/1997	Primary	Fill	Unsaturated	EPA 8260B	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment Addendum, Potrero Power Plant, September--Analytical results reported in wet weight																										
TB1-030	1	6/30/1998	Primary	Fill	Unsaturated	EPA 8260	<0.005	<0.005	<0.005	<0.01	**0.063**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0022**	<0.005	<0.003
TB1-030	1	6/30/1998	Duplicate	Fill	Unsaturated	EPA 8260	<0.005	<0.005	<0.005	<0.01	**0.03**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003
TB1-030	8	6/30/1998	Primary	Fill	Unsaturated	EPA 8260	<0.019	<0.019	<0.019	<0.038	**0.051**	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.012
TB1-030	10	6/30/1998	Primary	Fill	Unsaturated	EPA 8260	<0.005	<0.005	<0.005	**0.0049**	**0.007**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003
TB1-030	10	6/30/1998	Duplicate	Fill	Unsaturated	EPA 8260	<0.005	<0.005	<0.005	**0.0054**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003
TB1-030	15	6/30/1998	Primary	Fill	Saturated	EPA 8260	<0.025	<0.025	<0.025	<0.05	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.015
TB1-030	20	6/30/1998	Primary	Fill	Saturated	EPA 8260	<0.005	<0.005	<0.005	**0.002**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003
TB1-030	25	6/30/1998	Primary	Bay Mud	Saturated	EPA 8260	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003

TABLE C-5

SUMMARY OF ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs) IN SOIL SAMPLES[1]
Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Relation to Water Table	Analytical Method	Total Distilled Phenols	Chloro-phenol, 2-	Dichloro-phenol, 2,4-	Dichloro-phenol, 2,6-	Dimethyl-phenol, 2,4-	Dinitro-2-methyl-phenol, 4,6-	Dinitro-phenol, 2,4-	Methyl-phenol, 2-	Methyl-phenol, 3-	Methyl-phenol, 4-chloro-3-	Nitro-phenol, 2-	Nitro-phenol, 4-	Penta-chloro-phenol	Phenol	Trichloro-phenol, 2,4,6-
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16--Analytical results reported in dry weight																					
B-POT-1	2.5	2/28/1991	Primary	Fill	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-1	9	2/28/1991	Primary	Bedrock	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-2	4.5	2/27/1991	Primary	Bedrock	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-2	6.5	2/27/1991	Primary	Bedrock	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-3	3.5	2/22/1991	Primary	Fill/Brown	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-3	6	2/22/1991	Primary	Fill/Green	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-3	10	2/22/1991	Primary	Fill/Brown	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-3	12	2/22/1991	Primary	Fill/Green	Saturated	EPA 420	**0.56**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-9	3.5	3/4/1991	Primary	Bedrock	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-9	5.5	3/4/1991	Primary	Bedrock	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-9	10	3/4/1991	Primary	Bedrock	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-9	25	3/4/1991	Primary	Bedrock	Saturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-14	3.5	3/5/1991	Primary	Fill/Brown	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-14	6	3/5/1991	Primary	Interface	Saturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-14	20.5	3/5/1991	Primary	Bedrock	Saturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	3.5	3/1/1991	Primary	Fill	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	5.5	3/1/1991	Primary	Fill	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	8.5	3/1/1991	Primary	Fill	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	16.5	3/1/1991	Primary	Fill	Saturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS-APT-1	0.5	2/25/1991	Primary	Fill	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS-POT-1	0.5	3/1/1991	Primary	Fill	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS-POT-3	0.5	3/5/1991	Primary	Fill	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS-POT-6	0.5	3/5/1991	Primary	Fill	Unsaturated	EPA 420	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June--Analytical results reported in wet weight																					
TB1-001	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<9.9	<9.9	<9.9	<9.9	<48	<48	<9.9	<9.9	<19.8	<9.9	<48	<48	<9.9	<9.9
TB1-001	6	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<3.3	<3.3	<3.3	<3.3	<16	<16	<3.3	<3.3	<6.6	<3.3	<16	<16	<3.3	<3.3
TB1-001	11	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.327	<0.327	<0.327	<0.327	<1.58	<1.58	<0.327	<0.327	<0.653	<0.327	<1.58	<1.58	<0.327	<0.327
TB1-002	1	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<33	<33	<33	<33	<160	<160	<33	<33	<66	<33	<160	<160	<33	<33
TB1-002	1	12/4/1997	Duplicate	Fill/Green	Unsaturated	EPA 8270C	--	<33	<33	<33	<33	<160	<160	<33	<33	<66	<33	<160	<160	<33	<33
TB1-002	6	12/9/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.323	<0.323	<0.323	<0.323	<1.57	<1.57	<0.323	<0.323	<0.647	<0.323	<1.57	<1.57	<0.323	<0.323
TB1-002	6	12/9/1997	Duplicate	Fill/Green	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB1-002	11	12/9/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.66	<0.66	<0.66	<0.66	<3.2	<3.2	<0.66	<0.66	<1.3	<0.66	<3.2	<3.2	<0.66	<0.66
TB1-002 [2]	16	12/9/1997	Primary	Fill/Green	Saturated	EPA 8270C	--	<0.66	<0.66	<0.66	<0.66	<3.2	<3.2	<0.66	<0.66	<1.3	<0.66	<3.2	<3.2	<0.66	<0.66
TB1-002	22	12/9/1997	Primary	Fill/Green	Saturated	EPA 8270C	--	<0.66	<0.66	<0.66	<0.66	<3.2	<3.2	<0.66	<0.66	<1.3	<0.66	<3.2	<3.2	<0.66	<0.66
TB1-003	1	11/25/1997	Primary	Fill	Unsaturated	EPA 8270C	--	<0.326	<0.326	<0.326	<0.326	<1.58	<1.58	<0.326	<0.326	<0.651	<0.326	<1.58	<1.58	<0.326	<0.326
TB1-003	9	12/10/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB1-003	13	12/10/1997	Primary	Fill/Green	Saturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB1-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<3.3	<3.3	<3.3	<3.3	<16	<16	<3.3	<3.3	<6.6	<3.3	<16	<16	<3.3	<3.3
TB1-008	6	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB1-008	11	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB1-009	1	10/15/1997	Primary	Fill	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB1-009	8	10/15/1997	Primary	Fill	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB1-009	15	10/15/1997	Primary	Fill	Saturated	EPA 8270C	--	<0.99	<0.99	<0.99	<0.99	<4.8	<4.8	<0.99	<0.99	<1.98	<0.99	<4.8	<4.8	<0.99	<0.99
TB1-009	20	10/15/1997	Primary	Fill	Saturated	EPA 8270C	--	<3.3	<3.3	<3.3	<3.3	<16	<16	<3.3	<3.3	<6.6	<3.3	<16	<16	<3.3	<3.3
TB1-009	25	10/23/1997	Primary	Bedrock	Saturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB1-009	25	10/23/1997	Duplicate	Bedrock	Saturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB1-010	1	12/9/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<0.327	<0.327	<0.327	<0.327	<1.58	<1.58	<0.327	<0.327	<0.653	<0.327	<1.58	<1.58	<0.327	<0.327
TB1-010	6	12/9/1997	Primary	Fill	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB1-010	11	12/9/1997	Primary	Fill	Unsaturated	EPA 8270C	--	<0.323	<0.323	<0.323	<0.323	<1.57	<1.57	<0.323	<0.323	<0.647	<0.323	<1.57	<1.57	<0.323	<0.323
TB1-011	1	12/9/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8270C	--	<0.329	<0.329	<0.329	<0.329	<1.6	<1.6	<0.329	<0.329	<0.658	<0.329	<1.6	<1.6	<0.329	<0.329
TB1-011	1	12/9/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB1-011	9	12/9/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.327	<0.327	<0.327	<0.327	<1.58	<1.58	<0.327	<0.327	<0.653	<0.327	<1.58	<1.58	<0.327	<0.327
TB1-011	13	12/9/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.327	<0.327	<0.327	<0.327	<1.58	<1.58	<0.327	<0.327	<0.653	<0.327	<1.58	<1.58	<0.327	<0.327
TB1-012	1	11/25/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.99	<0.99	<0.99	<0.99	<4.8	<4.8	<0.99	<0.99	<1.98	<0.99	<4.8	<4.8	<0.99	<0.99
TB1-012	1	12/8/1997	Duplicate	Fill/Green	Unsaturated	EPA 8270C	--	<0.323	<0.323	<0.323	<0.323	<1.57	<1.57	<0.323	<0.323	<0.647	<0.323	<1.57	<1.57	<0.323	<0.323
TB1-012	1	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB1-012	6	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB1-012	10	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<3.21	<3.21	<3.21	<3.21	<15.6	<15.6	<3.21	<3.21	<6.43	<3.21	<15.6	<15.6	<3.21	<3.21

TABLE C-5

SUMMARY OF ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs) IN SOIL SAMPLES[1]
Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Relation to Water Table	Analytical Method	Total Distilled Phenols	Chloro-phenol, 2-	Dichloro-phenol, 2,4-	Dichloro-phenol, 2,6-	Dimethyl-phenol, 2,4-	Dinitro-2-methyl-phenol, 4,6-	Dinitro-phenol, 2,4-	Methyl-phenol, 2-	Methyl-phenol, 3-	Methyl-phenol, 4-chloro-3-	Nitro-phenol, 2-	Nitro-phenol, 4-	Penta-chloro-phenol	Phenol	Trichloro-phenol, 2,4,6-
TB2-001	1	11/26/1997	Duplicate	Fill/Green	Unsaturated	EPA 8270C	--	<0.328	<0.328	<0.328	<0.328	<1.59	<1.59	<0.328	<0.328	<0.656	<0.328	<1.59	<1.59	<0.328	<0.328
TB2-001	1	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB2-001	7	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.321	<0.321	<0.321	<0.321	<1.56	<1.56	<0.321	<0.321	<0.643	<0.321	<1.56	<1.56	<0.321	<0.321
TB2-001	12	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.66	<0.66	<0.66	<0.66	<3.2	<3.2	<0.66	<0.66	<1.32	<0.66	<3.2	<3.2	<0.66	<0.66
TB2-002	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<0.327	<0.327	<0.327	<0.327	<1.58	<1.58	<0.327	<0.327	<0.653	<0.327	<1.58	<1.58	<0.327	<0.327
TB2-002	7	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.329	<0.329	<0.329	<0.329	<1.6	<1.6	<0.329	<0.329	<0.659	<0.329	<1.6	<1.6	<0.329	<0.329
TB2-002	12	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB2-003	1	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.66	<0.66	<0.66	<0.66	<3.2	<3.2	<0.66	<0.66	<1.32	<0.66	<3.2	<3.2	<0.66	<0.66
TB2-003	6	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.329	<0.329	<0.329	<0.329	<1.6	<1.6	<0.329	<0.329	<0.658	<0.329	<1.6	<1.6	<0.329	<0.329
TB2-003	10	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.328	<0.328	<0.328	<0.328	<1.59	<1.59	<0.328	<0.328	<0.656	<0.328	<1.59	<1.59	<0.328	<0.328
TB2-004	2	11/26/1997	Primary	Fill	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB2-004	6	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.328	<0.328	<0.328	<0.328	<1.59	<1.59	<0.328	<0.328	<0.656	<0.328	<1.59	<1.59	<0.328	<0.328
TB2-004	10	11/26/1997	Duplicate	Bedrock	Unsaturated	EPA 8270C	--	<0.329	<0.329	<0.329	<0.329	<1.6	<1.6	<0.329	<0.329	<0.658	<0.329	<1.6	<1.6	<0.329	<0.329
TB2-004	10	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB2-005	1	11/21/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB2-005	6	11/25/1997	Duplicate	Bedrock	Unsaturated	EPA 8270C	--	<0.328	<0.328	<0.328	<0.328	<1.59	<1.59	<0.328	<0.328	<0.656	<0.328	<1.59	<1.59	<0.328	<0.328
TB2-005	6	11/25/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.66	<0.66	<0.66	<0.66	<3.2	<3.2	<0.66	<0.66	<1.32	<0.66	<3.2	<3.2	<0.66	<0.66
TB2-005	10	11/25/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.66	<0.66	<0.66	<0.66	<3.2	<3.2	<0.66	<0.66	<1.32	<0.66	<3.2	<3.2	<0.66	<0.66
TB2-006	1	11/21/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<0.326	<0.326	<0.326	<0.326	<1.58	<1.58	<0.326	<0.326	<0.651	<0.326	<1.58	<1.58	<0.326	<0.326
TB2-006	10	11/21/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.327	<0.327	<0.327	<0.327	<1.58	<1.58	<0.327	<0.327	<0.653	<0.327	<1.58	<1.58	<0.327	<0.327
TB4-002	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<3.22	<3.22	<3.22	<3.22	<15.6	<15.6	<3.22	<3.22	<6.45	<3.22	<15.6	<15.6	<3.22	<3.22
TB4-002	1	12/8/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8270C	--	<3.3	<3.3	<3.3	<3.3	<16	<16	<3.3	<3.3	<6.6	<3.3	<16	<16	<3.3	<3.3
TB4-002	6	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<3.3	<3.3	<3.3	<3.3	<16	<16	<3.3	<3.3	<6.6	<3.3	<16	<16	<3.3	<3.3
TB4-003	7	11/26/1997	Primary	Fill/Green	Saturated	EPA 8270C	--	<0.99	<0.99	<0.99	<0.99	<4.8	<4.8	<0.99	<0.99	<1.98	<0.99	<4.8	<4.8	<0.99	<0.99
TB4-003	12	12/1/1997	Primary	Bedrock	Saturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-004	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<3.25	<3.25	<3.25	<3.25	<15.7	<15.7	<3.25	<3.25	<6.49	<3.25	<15.7	<15.7	<3.25	<3.25
TB4-004	7	12/8/1997	Primary	Interface	Unsaturated	EPA 8270C	--	<3.2	<3.2	<3.2	<3.2	<15.5	<15.5	<3.2	<3.2	<6.4	<3.2	<15.5	<15.5	<3.2	<3.2
TB4-004	11	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.323	<0.323	<0.323	<0.323	<1.57	<1.57	<0.323	<0.323	<0.647	<0.323	<1.57	<1.57	<0.323	<0.323
TB4-005	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8270C	--	<3.22	<3.22	<3.22	<3.22	<15.6	<15.6	<3.22	<3.22	<6.45	<3.22	<15.6	<15.6	<3.22	<3.22
TB4-005	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<6.6	<6.6	<6.6	<6.6	<32	<32	<6.6	<6.6	<13.2	<6.6	<32	<32	<6.6	<6.6
TB4-005	6	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-005	10	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-005	15	12/3/1997	Primary	Bedrock	Saturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-006	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<1.65	<1.65	<1.65	<1.65	<8	<8	<1.65	<1.65	<3.3	<1.65	<8	<8	<1.65	<1.6
TB4-006	6	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.322	<0.322	<0.322	<0.322	<1.56	<1.56	<0.322	<0.322	<0.645	<0.322	<1.56	<1.56	<0.322	<0.322
TB4-006	10	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-006	15	12/3/1997	Primary	Bedrock	Saturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-007	2	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<9.9	<9.9	<9.9	<9.9	<48	<48	<9.9	<9.9	<19.8	<9.9	<48	<48	<9.9	<9.9
TB4-007	6	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<9.9	<9.9	<9.9	<9.9	<48	<48	<9.9	<9.9	<19.8	<9.9	<48	<48	<9.9	<9.9
TB4-007	20	12/8/1997	Primary	Bedrock	Saturated	EPA 8270C	--	<9.9	<9.9	<9.9	<9.9	<48	<48	<9.9	<9.9	<19.8	<9.9	<48	<48	<9.9	<9.9
TB4-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<33	<33	<33	<33	<160	<160	<33	<33	<66	<33	<160	<160	<33	<33
TB4-008	1	12/4/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8270C	--	<6.6	<6.6	<6.6	<6.6	<32	<32	<6.6	<6.6	<13.2	<6.6	<32	<32	<6.6	<6.6
TB4-008	4	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<33	<33	<33	<33	<160	<160	<33	<33	<66	<33	<160	<160	<33	<33
TB4-008	6	12/4/1997	Primary	Fill	Unsaturated	EPA 8270C	--	<0.327	<0.327	<0.327	<0.327	<1.58	<1.58	<0.327	<0.327	<0.653	<0.327	<1.58	<1.58	<0.327	<0.327
TB4-008	10	12/4/1997	Primary	Fill	Unsaturated	EPA 8270C	--	<0.323	<0.323	<0.323	<0.323	<1.57	<1.57	<0.323	<0.323	<0.647	<0.323	<1.57	<1.57	<0.323	<0.323
TB4-008	15	12/4/1997	Primary	Fill	Saturated	EPA 8270C	--	<0.66	<0.66	<0.66	<0.66	<3.2	<3.2	<0.66	<0.66	<1.32	<0.66	<3.2	<3.2	<0.66	<0.66
TB4-008	20	12/4/1997	Primary	Fill/Green	Saturated	EPA 8270C	--	<9.9	<9.9	<9.9	<9.9	<48	<48	<9.9	<9.9	<19.8	<9.9	<48	<48	<9.9	<9.9
TB4-008	30	12/4/1997	Primary	Fill/Brown	Saturated	EPA 8270C	--	<1.63	<1.63	<1.63	<1.63	<7.92	<7.92	<1.63	<1.63	<3.27	<1.63	<7.92	<7.92	<1.63	<1.6
TB4-009	1	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<6.6	<6.6	<6.6	<6.6	<32	<32	<6.6	<6.6	<13.2	<6.6	<32	<32	<6.6	<6.6
TB4-009	1	12/2/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8270C	--	<6.6	<6.6	<6.6	<6.6	<32	<32	<6.6	<6.6	<13.2	<6.6	<32	<32	<6.6	<6.6
TB4-009	6	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-009	11	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.325	<0.325	<0.325	<0.325	<1.57	<1.57	<0.325	<0.325	<0.649	<0.325	<1.57	<1.57	<0.325	<0.325
TB4-009	16	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-009	21	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-010	1	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.66	<0.66	<0.66	<0.66	<3.2	<3.2	<0.66	<0.66	<1.32	<0.66	<3.2	<3.2	<0.66	<0.66
TB4-010	6	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.321	<0.321	<0.321	<0.321	<1.56	<1.56	<0.321	<0.321	<0.643	<0.321	<1.56	<1.56	<0.321	<0.321
TB4-010	10	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.66	<0.66	<0.66	<0.66	<3.2	<3.2	<0.66	<0.66	<1.32	<0.66	<3.2	<3.2	<0.66	<0.66
TB4-011	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8270C	--	<3.2	<3.2	<3.2	<3.2	<15.5	<15.5	<3.2	<3.2	<6.4	<3.2	<15.5	<15.5	<3.2	<3.2

TABLE C-5

SUMMARY OF ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs) IN SOIL SAMPLES[1]
Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Relation to Water Table	Analytical Method	Total Distilled Phenols	Chloro-phenol, 2-	Dichloro-phenol, 2,4-	Dichloro-phenol, 2,6-	Dimethyl-phenol, 2,4-	Dinitro-2-methyl-phenol, 4,6-	Dinitro-phenol, 2,4-	Methyl-phenol, 2-	Methyl-phenol, 3-	Methyl-phenol, 4-chloro-3-	Nitro-phenol, 2-	Nitro-phenol, 4-	Penta-chloro-phenol	Phenol	Trichloro-phenol, 2,4,6-
TB4-011	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<3.3	<3.3	<3.3	<3.3	<16	<16	<3.3	<3.3	<6.6	<3.3	<16	<16	<3.3	<3.3
TB4-011	6	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<3.27	<3.27	<3.27	<3.27	<15.8	<15.8	<3.27	<3.27	<6.53	<3.27	<15.8	<15.8	<3.27	<3.27
TB4-011	11	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<6.6	<6.6	<6.6	<6.6	<32	<32	<6.6	<6.6	<13.2	<6.6	<32	<32	<6.6	<6.6
TB4-011	21	12/3/1997	Primary	Fill	Saturated	EPA 8270C	--	<45	<45	<45	<45	<218	<218	<45	<45	<90	<45	<218	<218	<45	<45
TB4-011	26	12/3/1997	Primary	Bedrock	Saturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-012	3	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-012	6	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-012	10	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-013	1	12/1/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<3.3	<3.3	<3.3	<3.3	<16	<16	<3.3	<3.3	<6.6	<3.3	<16	<16	<3.3	<3.3
TB4-013	1	12/1/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8270C	--	<3.3	<3.3	<3.3	<3.3	<16	<16	<3.3	<3.3	<6.6	<3.3	<16	<16	<3.3	<3.3
TB4-013	6	12/1/1997	Primary	Fill/Brown	Saturated	EPA 8270C	--	<6.6	<6.6	<6.6	<6.6	<32	<32	<6.6	<6.6	<13.2	<6.6	<32	<32	<6.6	<6.6
TB4-013	11	12/1/1997	Primary	Bedrock	Saturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-014	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<3.23	<3.23	<3.23	<3.23	<15.7	<15.7	<3.23	<3.23	<6.47	<3.23	<15.7	<15.7	<3.23	<3.23
TB4-014	6	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<3.25	<3.25	<3.25	<3.25	<15.7	<15.7	<3.25	<3.25	<6.49	<3.25	<15.7	<15.7	<3.25	<3.25
TB4-014	11	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<19.8	<19.8	<19.8	<19.8	<96	<96	<19.8	<19.8	<39.6	<19.8	<96	<96	<19.8	<19.8
TB4-014	21	12/3/1997	Primary	Bedrock	Saturated	EPA 8270C	--	<7.07	<7.07	<7.07	<7.07	<34.3	<34.3	<7.07	<7.07	<14.1	<7.07	<34.3	<34.3	<7.07	<7.07
TB4-015	1	12/1/1997	Primary	Fill	Unsaturated	EPA 8270C	--	<9.9	<9.9	<9.9	<9.9	<48	<48	<9.9	<9.9	<19.8	<9.9	<48	<48	<9.9	<9.9
TB4-015	6	12/1/1997	Primary	Fill	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB4-015	11	12/2/1997	Primary	Fill	Unsaturated	EPA 8270C	--	<0.329	<0.329	<0.329	<0.329	<1.6	<1.6	<0.329	<0.329	<0.658	<0.329	<1.6	<1.6	<0.329	<0.329
TB4-015	20	12/2/1997	Primary	Fill/Brown	Saturated	EPA 8270C	--	<8.25	<8.25	<8.25	<8.25	<40	<40	<8.25	<8.25	<16.5	<8.25	<40	<40	<8.25	<8.25
TB4-015	30	12/2/1997	Primary	Bedrock	Saturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB5-001	1	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<3.3	<3.3	<3.3	<3.3	<16	<16	<3.3	<3.3	<6.6	<3.3	<16	<16	<3.3	<3.3
TB5-001	6	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB5-001	10	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.321	<0.321	<0.321	<0.321	<1.56	<1.56	<0.321	<0.321	<0.643	<0.321	<1.56	<1.56	<0.321	<0.321
TB5-001	15	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33
TB5-002	1	11/26/1997	Primary	Fill	Unsaturated	EPA 8270C	--	<3.26	<3.26	<3.26	<3.26	<15.8	<15.8	<3.26	<3.26	<6.51	<3.26	<15.8	<15.8	<3.26	<3.26
TB5-002	6	11/26/1997	Primary	Fill	Unsaturated	EPA 8270C	--	<3.3	<3.3	<3.3	<3.3	<16	<16	<3.3	<3.3	<6.6	<3.3	<16	<16	<3.3	<3.3
TB5-002	10	11/26/1997	Primary	Fill	Unsaturated	EPA 8270C	--	<3.28	<3.28	<3.28	<3.28	<15.9	<15.9	<3.28	<3.28	<6.56	<3.28	<15.9	<15.9	<3.28	<3.28
TB5-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8270C	--	<3.26	<3.26	<3.26	<3.26	<15.8	<15.8	<3.26	<3.26	<6.51	<3.26	<15.8	<15.8	<3.26	<3.26
TB5-003	6	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8270C	--	<0.66	<0.66	<0.66	<0.66	<3.2	<3.2	<0.66	<0.66	<1.32	<0.66	<3.2	<3.2	<0.66	<0.66
TB5-003	10	11/26/1997	Primary	Bedrock	Saturated	EPA 8270C	--	<0.33	<0.33	<0.33	<0.33	<1.6	<1.6	<0.33	<0.33	<0.66	<0.33	<1.6	<1.6	<0.33	<0.33

Notes:

1. Soil samples analyzed for semivolatile organic compounds (SVOCs) using EPA Method 8270C.
2. Sample TB1-002 at 16 feet bgs was also analyzed for the following compounds that were not detected above the laboratory analytical reporting limit: Azobenzene, Benzidine, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-chloroisopropyl)ether, Bis(2-ethylhexyl)phthalate, 4-Bromophenyl phenyl ether, Butylbenzyl phthalate, 4-Chloroaniline, 2-Chloronaphthalene, 4-Chlorophenylphenylether, Dibenzofuran, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 3,3'-Dichlorobenzidine, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, Di-n-octyl phthalate, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Isophorone, 2-Methylnaphthalene, 2-Nitroaniline, 3-Nitroaniline, 4-Nitroaniline, Nitrobenzene, N-Nitrosodimethylamine, N-Nitrosodi-N-propylamine, N-Nitrosodiphenylamine, and 1,2,4-Trichlorobenzene.
3. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations

"**Bold**" = detected above the laboratory reporting limit
EPA = U.S. Environmental Protection Agency
feet bgs = feet below ground surface
-- = not analyzed
< = not detected above the laboratory reporting limit

TABLE C-6

SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS (TPH) IN SOIL SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	TPH	TPH as gasoline	TPH as diesel	TPH as motor oil	Organics, diesel range	Organics, gasoline range
Ecology & the Environment, 1990, Site Characterization Report, Potrero Power Plant, October 26 [2, 3]												
T-5 [4]	2.5	1989	Unknown	Bedrock	Unsaturated	Unknown	ND	ND	ND	ND	--	--
T-10 [4]	2	1989	Unknown	Bedrock	Unsaturated	Unknown	ND	ND	ND	ND	--	--
B-1	1	11/9/1989	Drive-sample [5]	Fill	Unsaturated	EPA 8015	--	<10	<10	<10	--	--
B-1	4	11/9/1989	Auger [6]	Fill	Unsaturated	EPA 8015	--	<10	<10	<10	--	--
B-1	6	11/9/1989	Auger	Bedrock	Unsaturated	EPA 8015	--	<10	166	65	--	--
B-1	6.5	11/9/1989	Auger	Bedrock	Unsaturated	EPA 8015	--	<10	180	83	--	--
B-1	9.5	11/9/1989	Drive-sample	Bedrock	Saturated	EPA 8015	--	<10	786	76	--	--
B-1	10.5	11/9/1989	Auger	Bedrock	Saturated	EPA 8015	--	<10	166	45	--	--
B-2	2	11/9/1989	Auger	Fill	Unsaturated	EPA 8015	--	<10	<10	2440	--	--
B-2	2.5	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8015	--	<10	<10	138	--	--
B-2	4	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8015	--	<10	<10	45	--	--
B-2	5	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8015	--	<10	<10	25	--	--
B-2	7	11/9/1989	Drive-sample	Bedrock	Saturated	EPA 8015	--	<10	<10	<10	--	--
B-2	9	11/9/1989	Auger	Bedrock	Saturated	EPA 8015	--	<10	<10	<10	--	--
B-2	14	11/9/1989	Auger	Bedrock	Saturated	EPA 8015	--	<10	<10	<10	--	--
B-3	4	11/9/1989	Drive-sample	Bedrock	Unsaturated	EPA 8015	--	<10	<10	<10	--	--
B-3	6	11/9/1989	Auger	Bedrock	Unsaturated	EPA 8015	--	<10	<10	<10	--	--
B-3	9.5	11/9/1989	Auger	Bedrock	Saturated	EPA 8015	--	14	31	45	--	--
B-3	14	11/9/1989	Auger	Bedrock	Saturated	EPA 8015	--	<10	<10	<10	--	--
B-4	4	11/--/1989	Auger	Fill	Unsaturated	EPA 8015	--	<10	<10	84	--	--
B-5	4	11/--/1989	Auger	Fill	Unsaturated	EPA 8015	--	<10	<10	397	--	--
MW-1	2.5	11/10/1989	Drive-sample	Bedrock	Saturated	EPA 8015	--	<10	<10	<10	--	--
MW-1	4.5	11/10/1989	Auger	Bedrock	Saturated	EPA 8015	--	<10	<10	<10	--	--
MW-1	6	11/10/1989	Auger	Bedrock	Saturated	EPA 8015	--	<10	118	14	--	--
MW-1	9	11/10/1989	Auger	Bedrock	Unsaturated	EPA 8015	--	<10	190	45	--	--
MW-1	14	11/10/1989	Auger	Bedrock	Unsaturated	EPA 8015	--	<10	2260	<10	--	--
MW-2	4	11/10/1989	Drive-sample	Bedrock	Saturated	EPA 8015	--	<10	<10	53	--	--
MW-2	4.5	11/10/1989	Auger	Bedrock	Saturated	EPA 8015	--	<10	<10	68	--	--
MW-2	6	11/10/1989	Auger	Bedrock	Saturated	EPA 8015	--	<10	<10	<10	--	--
MW-2	9	11/10/1989	Auger	Bedrock	Unsaturated	EPA 8015	--	<10	<10	<10	--	--
MW-2	14.5	11/10/1989	Auger	Bedrock	Unsaturated	EPA 8015	--	<10	<10	<10	--	--
MW-4	4.5	3/21/1990	Auger	Fill	Saturated	EPA 8015	--	<5	<10	<25	--	--

TABLE C-6

SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS (TPH) IN SOIL SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	TPH	TPH as gasoline	TPH as diesel	TPH as motor oil	Organics, diesel range	Organics, gasoline range
MW-4	9.5	3/21/1990	Auger	Bedrock	Unsaturated	EPA 8015	--	<5	<10	<25	--	--
MW-4	14.5	3/21/1990	Auger	Bedrock	Saturated	EPA 8015	--	<5	<10	<25	--	--
MW-4B	4	11/10/1989	Drive-sample	Fill	Unsaturated	EPA 8015	--	<10	<10	<10	--	--
MW-4B	5	11/10/1989	Auger	Fill	Unsaturated	EPA 8015	--	<10	<10	84	--	--
MW-5	5	11/9/1989	Drive-sample	Fill	Saturated	EPA 8015	--	<10	<10	<10	--	--
MW-5	6	11/9/1989	Auger	Fill	Saturated	EPA 8015	--	<10	<10	76	--	--
MW-5	9.5	11/9/1989	Drive-sample	Fill	Saturated	EPA 8015	--	<10	<10	140	--	--
MW-6	4.5	3/21/1990	Auger	Bedrock	Saturated	EPA 8015	--	<5	<10	<25	--	--
MW-6	9.5	3/21/1990	Auger	Bedrock	Saturated	EPA 8015	--	<5	<10	<25	--	--
MW-6	11.5	3/21/1990	Auger	Bedrock	Saturated	EPA 8015	--	<5	<10	<25	--	--
MW-6	14	3/21/1990	Auger	Bedrock	Saturated	EPA 8015	--	<5	<10	<25	--	--
MW-7	4.5	3/21/1990	Auger	Fill	Unsaturated	EPA 8015	--	<5	<10	<25	--	--
MW-7	9.5	3/21/1990	Auger	Bedrock	Saturated	EPA 8015	--	<5	<10	<25	--	--
MW-7	14.5	3/21/1990	Auger	Bedrock	Saturated	EPA 8015	--	<5	<10	<25	--	--
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16--Analytical results reported in dry weight												
B-POT-1	2.5	2/28/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	390	16	--	--
B-POT-1	9	2/28/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	<10	11	--	--
B-POT-2	4.5	2/27/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	880	--	--	--
B-POT-2	6.5	2/27/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	950	2600	--	--
B-POT-3	3.5	2/22/1991	Primary	Fill/Brown	Unsaturated	EPA 8015	--	--	390	<10	--	--
B-POT-3	6	2/22/1991	Primary	Fill/Green	Unsaturated	EPA 8015	--	--	341	<10	--	--
B-POT-3	10	2/22/1991	Primary	Fill/Brown	Unsaturated	EPA 8015	--	--	16000	790	--	--
B-POT-3	12	2/22/1991	Primary	Fill/Green	Saturated	EPA 8015	--	--	2200	1200	--	--
POT-9	3.5	3/4/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	<10	--	--
POT-9	5.5	3/4/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	--	<10	--	--
POT-9	10	3/4/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	<10	120	--	--
POT-9	25	3/4/1991	Primary	Bedrock	Saturated	EPA 8015	--	--	<10	<10	--	--
POT-14	3.5	3/5/1991	Primary	Fill/Brown	Unsaturated	EPA 8015	--	--	<10	<10	--	--
POT-14	6	3/5/1991	Primary	Interface	Saturated	EPA 8015	--	--	<10	<10	--	--
POT-14	20.5	3/5/1991	Primary	Bedrock	Saturated	EPA 8015	--	--	<10	<10	--	--
POT-15	3.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	<10	18	--	--
POT-15	5.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	<10	12	--	--
POT-15	8.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	<10	11	--	--
POT-15	16.5	3/1/1991	Primary	Fill	Saturated	EPA 8015	--	--	11000	490	--	--
SS-APT-1	0.5	2/25/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	420	<10	--	--
SS-POT-1	0.5	3/1/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	<10	30	--	--

TABLE C-6

SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS (TPH) IN SOIL SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	TPH	TPH as gasoline	TPH as diesel	TPH as motor oil	Organics, diesel range	Organics, gasoline range
SS-POT-3	0.5	3/5/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	17	<10	--	--
SS-POT-6	0.5	3/5/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	39	<10	--	--
Power Plant, June [7]												
TES-SB1	8.0	4/29/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	<1	--	--	--
TES-SB2	3.5	4/29/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**100**	--	--	--
TES-SB3	2.5	4/29/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**20**	--	--	--
TES-SB4	2.5	4/29/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**60**	--	--	--
TES-SB5	2.5	4/29/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	**1**	--	--	--
TES-SB6	2.0	4/29/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	<1	--	--	--
TES-SB7	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	**1**	--	--	--
TES-SB8	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	**2**	--	--	--
TES-SB9	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	**1**	--	--	--
TES-SB10	2.5	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	**1**	--	--	--
TES-SB11	3.0	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	<1	--	--	--
TES-SB12	3.0	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	<1	--	--	--
TES-SB13	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**4**	--	--	--
TES-SB14	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**5**	--	--	--
TES-SB15	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**3**	--	--	--
TES-SB16	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**2**	--	--	--
TES-SB17	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**2**	--	--	--
TES-SB18	8.5	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**11**	--	--	--
TES-SB19	7.5	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**4**	--	--	--
TES-SB20	4.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**900**	--	--	--
TES-SB21	3.0	4/30/1991	Primary	Bedrock	Unsaturated	EPA 8015	--	--	<1	--	--	--
TES-SB22	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**60**	--	--	--
TES-SB23	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**4**	--	--	--
TES-SB24	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**13**	--	--	--
TES-SB25	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**3800**	--	--	--
TES-SB26	9.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**340**	--	--	--
TES-SB27	3.0	4/30/1991	Primary	Fill	Unsaturated	EPA 8015	--	--	**3**	--	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June--Analytical results reported in wet weight												
TB1-001	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	2940	--	--	--	--	--
TB1-001	6	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB1-001	11	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8015B	<10	--	--	--	--	--

TABLE C-6

SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS (TPH) IN SOIL SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	TPH	TPH as gasoline	TPH as diesel	TPH as motor oil	Organics, diesel range	Organics, gasoline range
TB1-002	1	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	2760	--	--	--	--	--
TB1-002	1	12/4/1997	Duplicate	Fill/Green	Unsaturated	EPA 8015B	3870	--	--	--	--	--
TB1-002	6	12/9/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB1-002	6	12/9/1997	Duplicate	Fill/Green	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB1-002	11	12/9/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	1560	--	--	--	--	--
TB1-002	16	12/9/1997	Primary	Fill/Green	Saturated	EPA 8015B	438	--	--	--	--	--
TB1-002	22	12/9/1997	Primary	Fill/Green	Saturated	EPA 8015B	<20	--	--	--	--	--
TB1-003	1	11/25/1997	Primary	Fill	Unsaturated	EPA 8015B	1010	--	--	--	--	--
TB1-003	9	12/10/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB1-003	13	12/10/1997	Primary	Fill/Green	Saturated	EPA 8015B	<10	--	--	--	--	--
TB1-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	195	--	--	--	--	--
TB1-008	6	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB1-008	11	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB1-009	1	10/15/1997	Primary	Fill	Unsaturated	EPA 8015B	176	--	--	--	--	--
TB1-009	8	10/15/1997	Primary	Fill	Unsaturated	EPA 8015B	845	--	--	--	--	--
TB1-009	15	10/15/1997	Primary	Fill	Saturated	EPA 8015B	25000	--	--	--	--	--
TB1-009	20	10/15/1997	Primary	Fill	Saturated	EPA 8015B	14300	--	--	--	--	--
TB1-009	25	10/23/1997	Primary	Bedrock	Saturated	EPA 8015B	15.4	--	--	--	--	--
TB1-009	25	10/23/1997	Duplicate	Bedrock	Saturated	EPA 8015B	19.6	--	--	--	--	--
TB1-010	1	12/9/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	92.6	--	--	--	--	--
TB1-010	6	12/9/1997	Primary	Fill	Unsaturated	EPA 8015B	32.2	--	--	--	--	--
TB1-010	11	12/9/1997	Primary	Fill	Unsaturated	EPA 8015B	21.4	--	--	--	--	--
TB1-011	1	12/9/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	329	--	--	--	--	--
TB1-011	1	12/9/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8015B	382	--	--	--	--	--
TB1-011	9	12/9/1997	Primary	Bedrock	Unsaturated	EPA 8015B	26.2	--	--	--	--	--
TB1-011	13	12/9/1997	Primary	Bedrock	Unsaturated	EPA 8015B	26.1	--	--	--	--	--
TB1-012	1	11/25/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	355	--	--	--	--	--
TB1-012	1	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	34.3	--	--	--	--	--
TB1-012	1	12/8/1997	Duplicate	Fill/Green	Unsaturated	EPA 8015B	36.9	--	--	--	--	--
TB1-012	6	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB1-012	10	12/8/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	867	--	--	--	--	--
TB2-001	1	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	284	--	--	--	--	--
TB2-001	1	11/26/1997	Duplicate	Fill/Green	Unsaturated	EPA 8015B	531	--	--	--	--	--
TB2-001	7	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8015B	146	--	--	--	--	--
TB2-001	12	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8015B	<20	--	--	--	--	--
TB2-002	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	729	--	--	--	--	--

TABLE C-6

SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS (TPH) IN SOIL SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	TPH	TPH as gasoline	TPH as diesel	TPH as motor oil	Organics, diesel range	Organics, gasoline range
TB2-002	7	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	511	--	--	--	--	--
TB2-002	12	11/26/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB2-003	1	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	343	--	--	--	--	--
TB2-003	6	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB2-003	10	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB2-004	2	11/26/1997	Primary	Fill	Unsaturated	EPA 8015B	870	--	--	--	--	--
TB2-004	6	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB2-004	10	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB2-004	10	11/26/1997	Duplicate	Bedrock	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB2-005	1	11/21/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	42.6	--	--	--	--	--
TB2-005	6	11/25/1997	Primary	Bedrock	Unsaturated	EPA 8015B	65.9	--	--	--	--	--
TB2-005	6	11/25/1997	Duplicate	Bedrock	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB2-005	10	11/25/1997	Primary	Bedrock	Unsaturated	EPA 8015B	2530	--	--	--	--	--
TB2-006	1	11/21/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	88.4	--	--	--	--	--
TB2-006	6	11/21/1997	Primary	Fill	Unsaturated	EPA 8015B	19.6	--	--	--	--	--
TB2-006	10	11/21/1997	Primary	Bedrock	Unsaturated	EPA 8015B	11.3	--	--	--	--	--
TB4-002	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	1880	--	--	--	--	--
TB4-002	1	12/8/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8015B	1510	--	--	--	--	--
TB4-002	6	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8015B	58.2	--	--	--	--	--
TB4-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	256	--	--	--	--	--
TB4-003	7	11/26/1997	Primary	Fill/Green	Saturated	EPA 8015B	<30	--	--	--	--	--
TB4-003	12	12/1/1997	Primary	Bedrock	Saturated	EPA 8015B	<10	--	--	--	--	--
TB4-004	1	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	276	--	--	--	--	--
TB4-004	7	12/8/1997	Primary	Interface	Unsaturated	EPA 8015B	264	--	--	--	--	--
TB4-004	11	12/8/1997	Primary	Bedrock	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB4-005	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	510	--	--	--	--	--
TB4-005	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8015B	462	--	--	--	--	--
TB4-005	6	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8015B	710	--	--	--	--	--
TB4-005	10	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8015B	1040	--	--	--	--	--
TB4-005	15	12/3/1997	Primary	Bedrock	Saturated	EPA 8015B	<10	--	--	--	--	--
TB4-006	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	345	--	--	--	--	--
TB4-006	6	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB4-006	10	12/3/1997	Primary	Bedrock	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB4-006	15	12/3/1997	Primary	Bedrock	Saturated	EPA 8015B	526	--	--	--	--	--
TB4-007	2	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	681	--	--	--	--	--

TABLE C-6

SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS (TPH) IN SOIL SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	TPH	TPH as gasoline	TPH as diesel	TPH as motor oil	Organics, diesel range	Organics, gasoline range
TB4-007	6	12/8/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	599	--	--	--	--	--
TB4-007	20	12/8/1997	Primary	Bedrock	Saturated	EPA 8015B	935	--	--	--	--	--
TB4-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	2390	--	--	--	--	--
TB4-008	1	12/4/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8015B	3200	--	--	--	--	--
TB4-008	4	12/4/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	4050	--	--	--	--	--
TB4-008	6	12/4/1997	Primary	Fill	Unsaturated	EPA 8015B	20.4	--	--	--	--	--
TB4-008	10	12/4/1997	Primary	Fill	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB4-008	15	12/4/1997	Primary	Fill	Saturated	EPA 8015B	317	--	--	--	--	--
TB4-008	20	12/4/1997	Primary	Fill/Green	Saturated	EPA 8015B	465	--	--	--	--	--
TB4-008	30	12/4/1997	Primary	Fill/Brown	Saturated	EPA 8015B	105	--	--	--	--	--
TB4-009	1	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	559	--	--	--	--	--
TB4-009	1	12/2/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8015B	866	--	--	--	--	--
TB4-009	6	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	372	--	--	--	--	--
TB4-009	11	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB4-009	16	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8015B	1270	--	--	--	--	--
TB4-009	21	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8015B	678	--	--	--	--	--
TB4-010	1	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	169	--	--	--	--	--
TB4-010	6	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	27.5	--	--	--	--	--
TB4-010	10	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	248	--	--	--	--	--
TB4-011	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	794	--	--	--	--	--
TB4-011	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8015B	677	--	--	--	--	--
TB4-011	6	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	113	--	--	--	--	--
TB4-011	11	12/3/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	582	--	--	--	--	--
TB4-011	21	12/3/1997	Primary	Fill	Saturated	EPA 8015B	10700	--	--	--	--	--
TB4-011	26	12/3/1997	Primary	Bedrock	Saturated	EPA 8015B	169	--	--	--	--	--
TB4-012	3	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB4-012	6	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	26.3	--	--	--	--	--
TB4-012	10	12/1/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB4-013	1	12/1/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	525	--	--	--	--	--
TB4-013	1	12/1/1997	Duplicate	Fill/Brown	Unsaturated	EPA 8015B	279	--	--	--	--	--
TB4-013	6	12/1/1997	Primary	Fill/Brown	Saturated	EPA 8015B	307	--	--	--	--	--
TB4-013	11	12/1/1997	Primary	Bedrock	Saturated	EPA 8015B	312	--	--	--	--	--
TB4-014	1	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	2880	--	--	--	--	--
TB4-014	6	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	1870	--	--	--	--	--

TABLE C-6

SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS (TPH) IN SOIL SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	TPH	TPH as gasoline	TPH as diesel	TPH as motor oil	Organics, diesel range	Organics, gasoline range
TB4-014	11	12/3/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	11600	--	--	--	--	--
TB4-014	21	12/3/1997	Primary	Bedrock	Saturated	EPA 8015B	1850	--	--	--	--	--
TB4-015	1	12/1/1997	Primary	Fill	Unsaturated	EPA 8015B	3280	--	--	--	--	--
TB4-015	6	12/1/1997	Primary	Fill	Unsaturated	EPA 8015B	47	--	--	--	--	--
TB4-015	11	12/2/1997	Primary	Fill	Unsaturated	EPA 8015B	16.6	--	--	--	--	--
TB4-015	20	12/2/1997	Primary	Fill/Brown	Saturated	EPA 8015B	28700	--	--	--	--	--
TB4-015	30	12/2/1997	Primary	Bedrock	Saturated	EPA 8015B	53	--	--	--	--	--
TB5-001	1	12/2/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	633	--	--	--	--	--
TB5-001	6	12/2/1997	Primary	Fill/Green	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB5-001	10	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8015B	<10	--	--	--	--	--
TB5-001	15	12/2/1997	Primary	Bedrock	Unsaturated	EPA 8015B	<20	--	--	--	--	--
TB5-002	1	11/26/1997	Primary	Fill	Unsaturated	EPA 8015B	462	--	--	--	--	--
TB5-002	6	11/26/1997	Primary	Fill	Unsaturated	EPA 8015B	468	--	--	--	--	--
TB5-002	10	11/26/1997	Primary	Fill	Unsaturated	EPA 8015B	2620	--	--	--	--	--
TB5-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	EPA 8015B	518	--	--	--	--	--
TB5-003	6	11/26/1997	Primary	Bedrock	Unsaturated	EPA 8015B	<20	--	--	--	--	--
TB5-003	10	11/26/1997	Primary	Bedrock	Saturated	EPA 8015B	<10	--	--	--	--	--
TS1-017	1	12/9/1997	Primary	Fill	Unsaturated	EPA 8015B	406	--	--	--	--	--
TS1-018	1	12/9/1997	Primary	Fill	Unsaturated	EPA 8015B	165	--	--	--	--	--
TS1-019	1	12/9/1997	Primary	Fill	Unsaturated	EPA 8015B	54.3	--	--	--	--	--
TS4-016	1	12/10/1997	Primary	Fill	Unsaturated	EPA 8015B	1860	--	--	--	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment Addendum, Potrero Power Plant, September--Analytical results reported in wet weight												
TB4-017	36	3/3/1998	Primary	Fill/Brown	Saturated	EPA M8015	0.55	--	--	--	--	--
TB4-017	41	3/3/1998	Primary	Fill/Brown	Saturated	EPA M8015	25	--	--	--	--	--
TB4-017	41	3/3/1998	Duplicate	Fill/Brown	Saturated	EPA M8015	0.91	--	--	--	--	--
TB4-017	46	3/3/1998	Primary	Fill/Brown	Saturated	EPA M8015	<1	--	--	--	--	--
Geotechnical Consultants, Inc., 2004, Geotechnical Report, Potrero Power Plant, June--Analytical results presented in wet weight												
CHSB-1	0.5	2/24/2004	Primary	Fill	Unsaturated	EPA 8015B	--	--	--	--	600	<0.1
CHSB-1	3.5	2/24/2004	Primary	Bedrock	Unsaturated	EPA 8015B	--	--	--	--	3500	120
CHSB-2	0.5	2/24/2004	Primary	Fill	Unsaturated	EPA 8015B	--	--	--	--	39	<0.1
CHSB-2	3.5	2/24/2004	Primary	Fill	Unsaturated	EPA 8015B	--	--	--	--	<2	<0.1
CHSB-3	0.5	2/25/2004	Primary	Fill	Unsaturated	EPA 8015B	--	--	--	--	1300	<0.1
CHSB-3	3.5	2/25/2004	Primary	Fill	Unsaturated	EPA 8015B	--	--	--	--	240	<0.1

TABLE C-6

SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS (TPH) IN SOIL SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg)

Sample Point	Depth (ft-bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Analytical Method	TPH	TPH as gasoline	TPH as diesel	TPH as motor oil	Organics, diesel range	Organics, gasoline range
CHSB-4	0.5	2/25/2004	Primary	Fill	Unsaturated	EPA 8015B	--	--	--	--	160	<0.1
CHSB-4	3.5	2/25/2004	Primary	Fill	Unsaturated	EPA 8015B	--	--	--	--	15	<0.1
CHSB-5	0.5	2/24/2004	Primary	Fill	Unsaturated	EPA 8015B	--	--	--	--	430	<0.1
CHSB-5	3.5	2/24/2004	Primary	Fill	Unsaturated	EPA 8015B	--	--	--	--	40	<0.1
CHSB-6	0.5	2/25/2004	Primary	Fill	Unsaturated	EPA 8015B	--	--	--	--	410	<0.1
CHSB-6	3.5	2/25/2004	Primary	Bedrock	Unsaturated	EPA 8015B	--	--	--	--	61	<0.1
CHSB-7	0.5	2/25/2004	Primary	Fill	Unsaturated	EPA 8015B	--	--	--	--	910	<0.1
CHSB-7	3.5	2/25/2004	Primary	Fill	Unsaturated	EPA 8015B	--	--	--	--	<2	<0.1
CHSB-8	0.5	2/24/2004	Primary	Fill	Unsaturated	EPA 8015B	--	--	--	--	25	<0.1
CHSB-8	3.5	2/24/2004	Primary	Bedrock	Unsaturated	EPA 8015B	--	--	--	--	<2	<0.1

Notes:

1. Soil samples analyzed for unspecified total petroleum hydrocarbons (TPH); TPH quantified as gasoline, diesel, or motor oil; diesel range organics; and gasoline range organics using EPA Method 8015.
2. No information was provided in the analytical laboratory reports or Site Characterization Report (Ecology, 1990) regarding wet or dry weight basis of soil sample results. The results were assumed to have been reported on a wet weight basis.
3. Monitoring well MW-3 was installed in the backfill area for an excavated underground storage tank. Therefore the analytical results for soil samples collected from this boring are not included.
4. Soil samples were collected from borings T-5 and T-10 as part of PG&E initial characterization of soil in the vicinity of the underground storage tank (UST) formerly located south of Unit 6. These borings were not located in the excavation area for this UST. The analtyical results for this soil samples were presented in the Site Characterization report, but no information regarding the sample collection methodology or analytical method was presented (Ecology, 1990).
5. Soil sample collected by driving an 18-inch long, split-spoon drive sampler equipped with three 6-inch long brass liners, ahead of the auger using a 140-pound hammer (Ecology, 1990).
6. Soil samples collected into a brass liner directly from the auger (Ecology, 1990).
7. No information was provided in the analytical laboratory reports or Soil Investigation Report (TES, 1991) regarding wet or dry weight basis of soil sample results. The results were assumed to have been reported on a wet weight basis.
8. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations

"**Bold**" = detected above the laboratory reporting limit
EPA = U.S. Environmental Protection Agency
feet bgs = feet below ground surface
TPH = total petroleum hydrocarbons
< = not detected above the laboratory reporting limit
-- = not analyzed

TABLE C-7

SUMMARY OF ANALYTICAL RESULTS FOR ASBESTOS, CYANIDE, PERCENT MOISTURE, pH, TOTAL SOLIDS, AND SULFIDE IN SOIL SAMPLES[1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg), unless otherwise noted

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Asbestos, chrysotile (%) (N7400)	Asbestos, total (%) (N7400)	Cyanide, total EPA 9010	Moisture, percent D2216	pH (pH units) SW9045B	Solids, total (%) E160.3	Sulfide EPA 9030
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16--analytical results for total cyanide reported in dry weight.												
B-POT-1	2.5	2/28/1991	Primary	Fill	Unsaturated	--	--	<1	--	--	95	<4
B-POT-1	9	2/28/1991	Primary	Bedrock	Unsaturated	--	--	<1.1	--	--	89	83
B-POT-2	4.5	2/27/1991	Primary	Bedrock	Unsaturated	--	--	<1.1	--	--	89	<4
B-POT-2	6.5	2/27/1991	Primary	Bedrock	Unsaturated	--	--	<1.1	--	--	89	<4
B-POT-3	3.5	2/22/1991	Primary	Fill/Brown	Unsaturated	--	--	<1.1	--	--	88	<4
B-POT-3	6	2/22/1991	Primary	Fill/Green	Unsaturated	--	--	<1.1	--	--	90	<4
B-POT-3	10	2/22/1991	Primary	Fill/Brown	Unsaturated	--	--	<1.3	--	--	75	<4
B-POT-3	12	2/22/1991	Primary	Fill/Green	Saturated	--	--	<1.3	--	--	79	170
POT-9	3.5	3/4/1991	Primary	Bedrock	Unsaturated	--	--	<1.2	--	--	80	<40
POT-9	5.5	3/4/1991	Primary	Bedrock	Unsaturated	--	--	<1.2	--	--	85	<8
POT-9	10	3/4/1991	Primary	Bedrock	Unsaturated	--	--	<1.2	--	--	80	<8
POT-9	25	3/4/1991	Primary	Bedrock	Saturated	--	--	<1.1	--	--	90	<8
POT-14	3.5	3/5/1991	Primary	Fill/Brown	Unsaturated	--	--	<1.2	--	--	86	40
POT-14	6	3/5/1991	Primary	Interface	Saturated	--	--	<1.1	--	--	89	<4
POT-14	20.5	3/5/1991	Primary	Bedrock	Saturated	--	--	<1.3	--	--	76	32
POT-15	3.5	3/1/1991	Primary	Fill	Unsaturated	--	--	<1.1	--	--	88	<4
POT-15	5.5	3/1/1991	Primary	Fill	Unsaturated	--	--	<1	--	--	95	<4
POT-15	8.5	3/1/1991	Primary	Fill	Unsaturated	--	--	<1.2	--	--	81	<4
POT-15	16.5	3/1/1991	Primary	Fill	Saturated	--	--	<1.8	--	--	57	900
SS-APT-1	0.5	2/25/1991	Primary	Fill	Unsaturated	--	--	--	--	--	98	--
SS-POT-1	0.5	3/1/1991	Primary	Fill	Unsaturated	--	--	<1.1	--	--	89	--
SS-POT-3	0.5	3/5/1991	Primary	Fill	Unsaturated	--	--	<1.2	--	--	85	<4
SS-POT-6	0.5	3/5/1991	Primary	Fill	Unsaturated	--	--	<1.1	--	--	92	<4
PG&E, Technical and Ecological Services (TES), 1991, Soil Investigation Resutls For Diesel Dump Tank and Associated Piping Replacement Project, Potrero Power Plant, June[2]												
TES-SB1	8.0	4/29/1991	Primary	Bedrock	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB2	3.5	4/29/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB3	2.5	4/29/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB4	2.5	4/29/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB5	2.5	4/29/1991	Primary	Bedrock	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB6	2.0	4/29/1991	Primary	Bedrock	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB7	2.5	4/30/1991	Primary	Bedrock	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB8	2.5	4/30/1991	Primary	Bedrock	Unsaturated	--	--	<0.5	--	--	--	--

TABLE C-7

SUMMARY OF ANALYTICAL RESULTS FOR ASBESTOS, CYANIDE, PERCENT MOISTURE, pH, TOTAL SOLIDS, AND SULFIDE IN SOIL SAMPLES[1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg), unless otherwise noted

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Asbestos, chrysotile (%) (N7400)	Asbestos, total (%) (N7400)	Cyanide, total EPA 9010	Moisture, percent D2216	pH (pH units) SW9045B	Solids, total (%) E160.3	Sulfide EPA 9030
TES-SB9	2.5	4/30/1991	Primary	Bedrock	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB10	2.5	4/30/1991	Primary	Bedrock	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB11	3.0	4/30/1991	Primary	Bedrock	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB12	3.0	4/30/1991	Primary	Bedrock	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB13	3.0	4/30/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB14	3.0	4/30/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB15	3.0	4/30/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB16	3.0	4/30/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB17	3.0	4/30/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB18	8.5	4/30/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB19	7.5	4/30/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB20	4.0	4/30/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB21	3.0	4/30/1991	Primary	Bedrock	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB22	3.0	4/30/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB23	3.0	4/30/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB24	3.0	4/30/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB25	3.0	4/30/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB26	9.0	4/30/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
TES-SB27	3.0	4/30/1991	Primary	Fill	Unsaturated	--	--	<0.5	--	--	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June--Analytical results reported in wet weight.												
TB1-001	1	12/8/1997	Primary	Fill/Brown	Unsaturated	--	<1	<0.5	93.3	8.3	--	--
TB1-001	6	12/8/1997	Primary	Fill/Green	Unsaturated	--	<1	<0.5	90.9	8.9	--	--
TB1-001	11	12/8/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	75.7	8.6	--	--
TB1-002	1	12/4/1997	Primary	Fill/Green	Unsaturated	--	<1	<0.5	90.6	7.8	--	--
TB1-002	1	12/4/1997	Duplicate	Fill/Green	Unsaturated	--	<1	<0.5	93.1	8.5	--	--
TB1-002	6	12/9/1997	Primary	Fill/Green	Unsaturated	2	--	<0.5	83.7	8.3	--	--
TB1-002	6	12/9/1997	Duplicate	Fill/Green	Unsaturated	3	--	1.1	84.4	8.3	--	--
TB1-002	11	12/9/1997	Primary	Fill/Green	Unsaturated	--	<1	<0.5	83.5	8.4	--	--
TB1-002	16	12/9/1997	Primary	Fill/Green	Saturated	--	--	<0.5	80.8	8.4	--	--
TB1-002	22	12/9/1997	Primary	Fill/Green	Saturated	--	--	<0.5	84.2	9.1	--	--
TB1-003	1	11/25/1997	Primary	Fill	Unsaturated	--	<1	4.3	93.6	11.2	--	--
TB1-003	9	12/10/1997	Primary	Fill/Green	Unsaturated	--	2	<0.5	90.2	9	--	--
TB1-003	13	12/10/1997	Primary	Fill/Green	Saturated	--	2	<0.5	81.7	8.9	--	--
TB1-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	--	<1	<0.5	97.1	8.2	--	--
TB1-008	6	12/4/1997	Primary	Fill/Brown	Unsaturated	--	<1	<0.5	89.4	8.2	--	--

TABLE C-7

SUMMARY OF ANALYTICAL RESULTS FOR ASBESTOS, CYANIDE, PERCENT MOISTURE, pH, TOTAL SOLIDS, AND SULFIDE IN SOIL SAMPLES[1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg), unless otherwise noted

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Asbestos, chrysotile (%) (N7400)	Asbestos, total (%) (N7400)	Cyanide, total EPA 9010	Moisture, percent D2216	pH (pH units) SW9045B	Solids, total (%) E160.3	Sulfide EPA 9030
TB1-008	11	12/4/1997	Primary	Fill/Green	Unsaturated	--	--	<0.5	86.3	9.1	--	--
TB1-009	1	10/15/1997	Primary	Fill	Unsaturated	--	--	<0.5	91	8	--	--
TB1-009	8	10/15/1997	Primary	Fill	Unsaturated	--	<1	<0.5	81.1	8	--	--
TB1-009	15	10/15/1997	Primary	Fill	Saturated	--	<1	2.7	87.1	8.1	--	--
TB1-009	20	10/15/1997	Primary	Fill	Saturated	--	--	2.1	86.8	8.6	--	--
TB1-009	25	10/23/1997	Duplicate	Bedrock	Saturated	--	--	<0.5	87.8	9	--	--
TB1-009	25	10/23/1997	Primary	Bedrock	Saturated	--	--	<0.5	89.8	9.1	--	--
TB1-010	1	12/9/1997	Primary	Fill/Brown	Unsaturated	--	<1	<0.5	93.5	7.8	--	--
TB1-010	6	12/9/1997	Primary	Fill	Unsaturated	--	<1	0.6	76.2	9.1	--	--
TB1-010	11	12/9/1997	Primary	Fill	Unsaturated	--	--	<0.5	92.1	9.1	--	--
TB1-011	1	12/9/1997	Duplicate	Fill/Brown	Unsaturated	--	<1	<0.5	91.3	8.2	--	--
TB1-011	1	12/9/1997	Primary	Fill/Brown	Unsaturated	--	<1	<0.5	94.8	8.5	--	--
TB1-011	4	12/9/1997	Primary	Fill	Unsaturated	30	--	--	--	--	--	--
TB1-011	9	12/9/1997	Primary	Bedrock	Unsaturated	2	--	<0.5	92.5	8.4	--	--
TB1-011	13	12/9/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	88.6	8.4	--	--
TB1-012	1	12/8/1997	Duplicate	Fill/Green	Unsaturated	--	2	<0.5	87.7	8.8	--	--
TB1-012	1	11/25/1997	Primary	Fill/Green	Unsaturated	--	<1	<0.5	87.8	8.1	--	--
TB1-012	1	12/8/1997	Primary	Fill/Green	Unsaturated	--	2	<0.5	88.2	8.2	--	--
TB1-012	6	12/8/1997	Primary	Fill/Green	Unsaturated	--	<1	<0.5	78.4	8.3	--	--
TB1-012	10	12/8/1997	Primary	Fill/Green	Unsaturated	--	--	1	78.2	7.6	--	--
TB2-001	1	11/26/1997	Duplicate	Fill/Green	Unsaturated	--	2	<0.5	90.1	8.2	--	--
TB2-001	1	11/26/1997	Primary	Fill/Green	Unsaturated	--	<1	<0.5	96.9	8.4	--	--
TB2-001	7	11/26/1997	Primary	Bedrock	Unsaturated	--	--	0.6	81.6	7.7	--	--
TB2-001	12	11/26/1997	Primary	Bedrock	Unsaturated	--	--	1.8	89.6	9	--	--
TB2-002	1	11/26/1997	Primary	Fill/Brown	Unsaturated	--	<1	<0.5	95.1	9.1	--	--
TB2-002	7	11/26/1997	Primary	Fill/Green	Unsaturated	--	--	<0.5	88	8.1	--	--
TB2-002	12	11/26/1997	Primary	Fill/Green	Unsaturated	--	--	<0.5	91.5	8.3	--	--
TB2-003	1	12/2/1997	Primary	Fill/Green	Unsaturated	--	<1	<0.5	90.5	8.7	--	--
TB2-003	6	12/2/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	75.5	8.7	--	--
TB2-003	10	12/2/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	65.1	8.8	--	--
TB2-004	2	11/26/1997	Primary	Fill	Unsaturated	--	2	<0.5	88.2	9.7	--	--
TB2-004	6	11/26/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	88.8	8.6	--	--

TABLE C-7

SUMMARY OF ANALYTICAL RESULTS FOR ASBESTOS, CYANIDE, PERCENT MOISTURE, pH, TOTAL SOLIDS, AND SULFIDE IN SOIL SAMPLES[1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg), unless otherwise noted

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Asbestos, chrysotile (%) (N7400)	Asbestos, total (%) (N7400)	Cyanide, total EPA 9010	Moisture, percent D2216	pH (pH units) SW9045B	Solids, total (%) E160.3	Sulfide EPA 9030
TB2-004	10	11/26/1997	Duplicate	Bedrock	Unsaturated	--	--	<0.5	90.7	8.5	--	--
TB2-004	10	11/26/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	91.3	8.5	--	--
TB2-005	1	11/21/1997	Primary	Fill/Green	Unsaturated	--	2	<0.5	90.3	9.6	--	--
TB2-005	6	11/25/1997	Primary	Bedrock	Unsaturated	--	<1	<0.5	79.7	8.6	--	--
TB2-005	6	11/25/1997	Duplicate	Bedrock	Unsaturated	--	<1	<0.5	85.3	8.6	--	--
TB2-005	10	11/25/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	74.4	8.5	--	--
TB2-006	1	11/21/1997	Primary	Fill/Brown	Unsaturated	--	<1	<0.5	96.1	8.6	--	--
TB2-006	6	11/21/1997	Primary	Fill	Unsaturated	--	--	<0.5	72.1	9.4	--	--
TB2-006	10	11/21/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	78	8.7	--	--
TB4-002	1	12/8/1997	Primary	Fill/Brown	Unsaturated	--	2	<0.5	93.9	8.5	--	--
TB4-002	1	12/8/1997	Duplicate	Fill/Brown	Unsaturated	--	<1	<0.5	95.7	8.5	--	--
TB4-002	6	12/8/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	91.2	9.3	--	--
TB4-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	--	3	0.6	89.8	8.6	--	--
TB4-003	7	11/26/1997	Primary	Fill/Green	Saturated	--	--	<0.5	93.9	8.6	--	--
TB4-003	12	12/1/1997	Primary	Bedrock	Saturated	--	--	<0.5	86.4	10.3	--	--
TB4-004	1	12/8/1997	Primary	Fill/Brown	Unsaturated	--	<1	1	83.7	8	--	--
TB4-004	7	12/8/1997	Primary	Interface	Unsaturated	--	--	3.8	86.2	8.1	--	--
TB4-004	11	12/8/1997	Primary	Bedrock	Unsaturated	--	--	1.7	83.9	8.4	--	--
TB4-005	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	--	<1	<0.5	81.2	8.2	--	--
TB4-005	1	12/3/1997	Primary	Fill/Brown	Unsaturated	--	<1	<0.5	84	8.5	--	--
TB4-005	6	12/3/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	88.8	8.7	--	--
TB4-005	10	12/3/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	86.9	8.6	--	--
TB4-005	15	12/3/1997	Primary	Bedrock	Saturated	--	--	<0.5	83.5	8.8	--	--
TB4-006	1	12/3/1997	Primary	Fill/Brown	Unsaturated	--	--	1.2	84.5	7.3	--	--
TB4-006	1	12/3/1997	Primary	Fill/Brown	Unsaturated	--	<1	--	--	--	--	--
TB4-006	6	12/3/1997	Primary	Bedrock	Unsaturated	2	--	<0.5	82.2	8.1	--	--
TB4-006	10	12/3/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	82.3	7.8	--	--
TB4-006	15	12/3/1997	Primary	Bedrock	Saturated	--	--	<0.5	88.7	9.2	--	--
TB4-007	2	12/8/1997	Primary	Fill/Brown	Unsaturated	--	<1	3.3	82.6	7.5	--	--
TB4-007	6	12/8/1997	Primary	Fill/Brown	Unsaturated	--	--	1.3	83.4	7.6	--	--
TB4-007	20	12/8/1997	Primary	Bedrock	Saturated	--	--	13.9	61.4	7.3	--	--
TB4-008	1	12/4/1997	Duplicate	Fill/Brown	Unsaturated	--	<1	9.2	75.5	6.9	--	--
TB4-008	1	12/4/1997	Primary	Fill/Brown	Unsaturated	--	<1	<0.5	83.7	7.3	--	--
TB4-008	4	12/4/1997	Primary	Fill/Green	Unsaturated	--	--	14.9	75.9	2.7	--	--
TB4-008	6	12/4/1997	Primary	Fill	Unsaturated	--	--	2.1	68.8	4.3	--	--
TB4-008	10	12/4/1997	Primary	Fill	Unsaturated	--	--	0.5	85.3	5	--	--
TB4-008	15	12/4/1997	Primary	Fill	Saturated	--	--	0.6	73.5	7.1	--	--
TB4-008	20	12/4/1997	Primary	Fill/Green	Saturated	--	--	16.5	68.4	7.6	--	--
TB4-008	30	12/4/1997	Primary	Fill/Brown	Saturated	--	--	0.6	80.9	8.7	--	--

TABLE C-7

SUMMARY OF ANALYTICAL RESULTS FOR ASBESTOS, CYANIDE, PERCENT MOISTURE, pH, TOTAL SOLIDS, AND SULFIDE IN SOIL SAMPLES[1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg), unless otherwise noted

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Asbestos, chrysotile (%) (N7400)	Asbestos, total (%) (N7400)	Cyanide, total EPA 9010	Moisture, percent D2216	pH (pH units) SW9045B	Solids, total (%) E160.3	Sulfide EPA 9030
TB4-009	1	12/2/1997	Primary	Fill/Brown	Unsaturated	--	<1	0.7	81.4	8.2	--	--
TB4-009	1	12/2/1997	Duplicate	Fill/Brown	Unsaturated	--	<1	<0.5	83.7	8.1	--	--
TB4-009	6	12/2/1997	Primary	Fill/Brown	Unsaturated	--	--	<0.5	87.3	8.6	--	--
TB4-009	11	12/2/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	73.6	8.6	--	--
TB4-009	16	12/2/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	74.8	8.4	--	--
TB4-009	21	12/2/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	83.7	8.2	--	--
TB4-010	1	12/2/1997	Primary	Fill/Green	Unsaturated	--	<1	<0.5	94.5	10.5	--	--
TB4-010	6	12/2/1997	Primary	Fill/Green	Unsaturated	--	--	<0.5	94.4	9.1	--	--
TB4-010	10	12/3/1997	Primary	Fill/Green	Unsaturated	--	--	<0.5	83	9.1	--	--
TB4-011	1	12/3/1997	Primary	Fill/Brown	Unsaturated	--	<1	<0.5	91.5	8.4	--	--
TB4-011	1	12/3/1997	Duplicate	Fill/Brown	Unsaturated	--	<1	<0.5	92	8.2	--	--
TB4-011	6	12/3/1997	Primary	Fill/Green	Unsaturated	--	--	0.6	81.2	4.3	--	--
TB4-011	11	12/3/1997	Primary	Fill/Green	Unsaturated	--	--	--	79.5	7.7	--	--
TB4-011	21	12/3/1997	Primary	Fill	Saturated	--	--	2.7	60.4	8.1	--	--
TB4-011	26	12/3/1997	Primary	Bedrock	Saturated	--	--	<0.5	88.5	9	--	--
TB4-012	3	12/1/1997	Primary	Fill/Green	Unsaturated	--	<1	6.1	89.1	11.2	--	--
TB4-012	6	12/1/1997	Primary	Fill/Green	Unsaturated	--	--	<0.5	78.6	12.6	--	--
TB4-012	10	12/1/1997	Primary	Fill/Green	Unsaturated	--	--	<0.5	85.6	8.6	--	--
TB4-013	1	12/1/1997	Primary	Fill/Brown	Unsaturated	--	<1	<0.5	85	8.6	--	--
TB4-013	1	12/1/1997	Duplicate	Fill/Brown	Unsaturated	--	<1	<0.5	87.4	8.4	--	--
TB4-013	6	12/1/1997	Primary	Fill/Brown	Saturated	--	--	1.1	76.4	8.3	--	--
TB4-013	11	12/1/1997	Primary	Bedrock	Saturated	--	--	<0.5	76.8	9.2	--	--
TB4-014	1	12/3/1997	Primary	Fill/Brown	Unsaturated	--	<1	1.6	87.8	7.5	--	--
TB4-014	6	12/3/1997	Primary	Fill/Brown	Unsaturated	--	--	<0.5	72.1	4.9	--	--
TB4-014	11	12/3/1997	Primary	Fill/Brown	Unsaturated	--	--	13.9	84.8	5	--	--
TB4-014	21	12/3/1997	Primary	Bedrock	Saturated	--	--	3.7	89.7	8.2	--	--
TB4-015	1	12/1/1997	Primary	Fill	Unsaturated	--	<1	26.7	73.1	7	--	--
TB4-015	6	12/1/1997	Primary	Fill	Unsaturated	--	--	<0.5	72.5	7.6	--	--
TB4-015	11	12/2/1997	Primary	Fill	Unsaturated	--	--	1	85.4	8.1	--	--
TB4-015	20	12/2/1997	Primary	Fill/Brown	Saturated	--	--	5.7	67.5	8	--	--
TB4-015	30	12/2/1997	Primary	Bedrock	Saturated	--	--	<0.5	79.4	8.5	--	--
TB5-001	1	12/2/1997	Primary	Fill/Brown	Unsaturated	--	<1	<0.5	88.1	8.5	--	--

TABLE C-7

SUMMARY OF ANALYTICAL RESULTS FOR ASBESTOS, CYANIDE, PERCENT MOISTURE, pH, TOTAL SOLIDS, AND SULFIDE IN SOIL SAMPLES[1]

Potrero Power Plant
San Francisco, California

All concentrations are presented in milligrams per kilogram (mg/kg), unless otherwise noted

Sample Point	Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Asbestos, chrysotile (%) (N7400)	Asbestos, total (%) (N7400)	Cyanide, total EPA 9010	Moisture, percent D2216	pH (pH units) SW9045B	Solids, total (%) E160.3	Sulfide EPA 9030
TB5-001	6	12/2/1997	Primary	Fill/Green	Unsaturated	--	<1	<0.5	83.4	8.6	--	--
TB5-001	10	12/2/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	87	9	--	--
TB5-001	15	12/2/1997	Primary	Bedrock	Unsaturated	--	--	<0.5	94.4	8.2	--	--
TB5-002	1	11/26/1997	Primary	Fill	Unsaturated	--	2	0.6	80.4	8.2	--	--
TB5-002	6	11/26/1997	Primary	Fill	Unsaturated	--	<1	<0.5	82	8.3	--	--
TB5-002	10	11/26/1997	Primary	Fill	Unsaturated	--	--	<0.5	82.7	8.1	--	--
TB5-003	1	11/26/1997	Primary	Fill/Brown	Unsaturated	--	2	<0.5	93.4	8.3	--	--
TB5-003	6	11/26/1997	Primary	Bedrock	Unsaturated	--	<1	<0.5	74.2	8.3	--	--
TB5-003	10	11/26/1997	Primary	Bedrock	Saturated	--	--	<0.5	76.3	8.6	--	--
TS1-017	1	12/9/1997	Primary	Fill	Unsaturated	--	--	--	93.5	8.1	--	--
TS1-018	1	12/9/1997	Primary	Fill	Unsaturated	--	--	--	94.7	8.9	--	--
TS1-019	1	12/9/1997	Primary	Fill	Unsaturated	--	--	--	95.5	8.3	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment Addendum, Potrero Power Plant, September--Analytical results reported in wet weight.												
TB4-017	36	3/3/1998	Primary	Fill/Brown	Saturated	--	--	<0.25	--	--	--	--
TB4-017	41	3/3/1998	Primary	Fill/Brown	Saturated	--	--	<0.25	--	--	--	--
TB4-017	41	3/3/1998	Duplicate	Fill/Brown	Saturated	--	--	<0.25	--	--	--	--
TB4-017	46	3/3/1998	Primary	Fill/Brown	Saturated	--	--	<0.25	--	--	--	--

Notes:

1. Soil samples analyzed for asbestos using NIOSH Method N7400, cyanide using EPA method SW9010, percent moisture using D2216, pH using EPA Method 9045B, total solids using EPA Method E160.3, and sulfide using EPA Method 9030.
2. No information was provided in the analytical laboratory reports or Soil Investigation Report (TES, 1991) regarding wet or dry weight basis of soil sample results. The results were assumed to have been reported on a wet weight basis.
3. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations

EPA = U.S. Environmental Protection Agency
feet bgs = feet below ground surface
< = not detected above the laboratory reporting limit
-- = not analyzed

TABLE C-8

SUMMARY OF ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS (PCBs) IN GROUNDWATER SAMPLES[1]

Potrero Power Plant

San Francisco, California

All concentrations are milligrams per liter (mg/L).

Sample Point	Sample Date	Sample Type	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260	PCBs, total
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June.										
APT-1	10/15/1997	Primary	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-1	10/14/1997	Primary	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-2	10/14/1997	Primary	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-4	10/14/1997	Primary	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-5	10/14/1997	Primary	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-6	10/14/1997	Primary	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-7	10/14/1997	Primary	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
POT-9	10/14/1997	Primary	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
POT-14	10/15/1997	Primary	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
POT-15	10/15/1997	Primary	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
POT-15	10/15/1997	Duplicate	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB1-001	12/10/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB1-002	12/10/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB1-008	12/9/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB1-009	12/2/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB1-011	12/10/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB2-003	12/10/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB2-005	12/2/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB4-005	12/10/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB4-006	12/9/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB4-007	12/10/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB4-008	12/9/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB4-011	12/9/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB4-013	12/9/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB4-013	12/9/1997	Duplicate	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB4-015	12/9/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB5-001	12/10/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB5-002	12/2/1997	Primary	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
TB5-003	12/2/1997	Primary	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Notes

1. Groundwater samples collected from monitoring wells and analyzed for polychlorinated biphenyls (PCBs) using EPA Method 8081.
2. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations:

EPA = U.S. Environmental Protection Agency

-- = not analyzed

< = concentration below detection limit

TABLE C-9

SUMMARY OF ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L).

Sample Point	Sample Date	Sample Type	Chloro-phenol, 2-	Dichloro-phenol, 2,4-	Dichloro-phenol, 2,6-	Dimethyl-phenol, 2,4-	Dinitro-2-methyl-phenol, 4,6-	Dinitro-phenol, 2,4-	Methyl-phenol, 2-	Methyl-phenol, 3-	Methyl-phenol, 4-chloro-3-	Nitro-phenol, 2-	Nitro-phenol, 4-	Penta-chloro-phenol	Phenol	Trichloro-phenol, 2,4,6-	Trichloro-phenol, 2,6- [2]
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June.																	
MW-1	10/14/1997	Primary	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
MW-4	10/14/1997	Primary	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
MW-5	10/14/1997	Primary	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
MW-6	10/14/1997	Primary	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
MW-7	10/14/1997	Primary	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
POT-9	10/14/1997	Primary	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
APT-1	10/15/1997	Primary	<0.01	<0.01	--	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01
POT-14	10/15/1997	Primary	<0.01	<0.01	--	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01
POT-15	10/15/1997	Primary	<0.01	<0.01	--	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01
POT-15	10/15/1997	Duplicate	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01
TB1-009	12/2/1997	Primary	<0.1	<0.1	--	<0.1	<0.5	<0.5	<0.1	<1	<0.2	<0.1	<0.5	<0.5	<0.1	<0.1	--
TB2-005	12/2/1997	Primary	<0.01	<0.01	--	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
TB5-002	12/2/1997	Primary	<0.01	<0.01	--	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
TB5-003	12/2/1997	Primary	<0.01	<0.01	--	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
TB1-008	12/9/1997	Primary	<0.0102	<0.0102	<0.0102	<0.0102	<0.051	<0.051	<0.0102	<0.102	<0.0204	<0.0102	<0.051	<0.051	<0.0102	<0.0102	--
TB4-006	12/9/1997	Primary	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
TB4-008	12/9/1997	Primary	<0.1	<0.1	<0.01	<0.1	<0.5	<0.5	<0.1	<1	<0.2	<0.1	<0.5	<0.5	<0.1	<0.1	--
TB4-011	12/9/1997	Primary	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
TB4-013	12/9/1997	Primary	<0.0102	<0.0102	<0.0102	<0.0102	<0.051	<0.051	<0.0102	<0.102	<0.0204	<0.0102	<0.051	<0.051	<0.0102	<0.0102	--
TB4-013	12/9/1997	Duplicate	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
TB4-015	12/9/1997	Primary	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
TB1-001	12/10/1997	Primary	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
TB1-002	12/10/1997	Primary	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.1	<1	<0.2	<0.1	<0.5	<0.5	<0.1	<0.1	--
TB1-011	12/10/1997	Primary	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
TB2-003	12/10/1997	Primary	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
TB4-005	12/10/1997	Primary	<0.01	<0.01	--	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
TB4-007	12/10/1997	Primary	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
TB5-001	12/10/1997	Primary	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.1	<0.02	<0.01	<0.05	<0.05	<0.01	<0.01	--
Geomatrix Consultants, Inc., 2004, Ammonia Facility Construction Sampling, March. [3]																	
POT-15	2/25/2004	Primary	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	--

Notes:

1. Groundwater samples collected from monitoring wells and analyzed for semivolatile organic compounds (SVOCs) EPA Method 8270 (1997) or EPA Method 8270C (2004).
2. Reported as 2,6-trichlorophenol by Fluor-Daniel, GTI (1998); the specific trichlorophenol congener is unclear.
3. A groundwater sample was collected from monitoring well POT-15 by Geomatrix Consultants, Inc., as part of pre-construction activities for the Ammonia Unloading/Storage Facility Area and analyzed for semivolatile organic compounds (SVOCs) using EPA Method 8270C; the following SVOCs were included as target analytes, but not detected above the laboratory analytical reporting limit of 0.01 mg/L: Aniline; Azobenzene; Benzidine; Benzoicacid; Benzylalcohol; Bis(2-chloroethoxy)methane; Bis(2-chloroethyl)ether; Bis(2-chloroisopropyl)ether; Bis(2-ethylhexyl)phthalate; 4-Bromophenylphenylether; Butylbenzylphthalate; 4-Chloroaniline; 2-Chloronaphthalene; 4-Chlorophenylphenylether; Dibenzofuran; 1,2-Dichlorobenzene; 1,3-Dichlorobenzene; 1,4-Dichlorobenzene; 3,3'-Dichlorobenzidine; Diethylphthalate; Dimethylphthalate; Di-n-butylphthalate; 2,4-Dinitrotoluene; 2,6-Dinitrotoluene; Di-n-octylphthalate; Hexachlorobenzene; Hexachlorobutadiene; Hexachlorocyclopentadiene; Hexachloroethane; Isophorone; 2-Methylnaphthalene; 4-Methylphenol; 2-Nitroaniline; 3-Nitroaniline; 4-Nitroaniline; Nitrobenzene; N-Nitrosodimethylamine; N-Nitrosodi-N-propylamine; N-Nitrosodiphenylamine; 1,2,4-Trichlorobenzene; and 2,4,5-Trichlorophenol.
4. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations:

EPA = U.S. Environmental Protection Agency
-- = not analyzed
< = concentration below detection limit

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Benzene	Toluene	Ethyl benzene	Xylenes, total	MTBE	Chlorobenzene	Dichlorobenzene, 1,2-	Dichlorobenzene, 1,3-	Dichlorobenzene, 1,4-	Bromo benzene	Bromo-chloromethane	Bromo-dichloro-methane	Bromo-form	Bromo-methane	Butyl-benzene, 1-	Butyl-benzene, sec-	Butyl-benzene, tert-	Carbon tetra-chloride
Ecology & the Environment, 1990, Site Characterization Report, Potrero Power Plant, October 26.																					
MW-1	11/--/1989	Primary	EPA 602	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--
MW-1	6/1/1990	Primary	EPA 602	<1.25	<1.25	**1.31**	**4.3**	--	<1.25	<1.25	<1.25	<1.25	--	--	--	--	--	--	--	--	--
MW-2	11/--/1989	Primary	EPA 602	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--
MW-2	6/1/1990	Primary	EPA 602	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--
MW-3	11/--/1989	Primary	EPA 602	**0.19**	<0.05	<0.05	<0.05	--	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--	--
MW-3	6/1/1990	Primary	EPA 602	<0.25	<0.25	**0.82**	**0.72**	--	<0.25	<0.25	<0.25	<0.25	--	--	--	--	--	--	--	--	--
MW-4	3/30/1990	Primary	EPA 602	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--
MW-4	3/30/1990	Duplicate	EPA 602	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--
MW-4	6/1/1990	Primary	EPA 602	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--
MW-4	6/1/1990	Primary	EPA 602	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--
MW-5	11/--/1989	Primary	EPA 602	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--
MW-5	11/--/1989	Duplicate	EPA 602	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--
MW-5	6/1/1990	Primary	EPA 602	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--
MW-6	03/30/1990	Primary	EPA 602	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--
MW-6	6/1/1990	Primary	EPA 602	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--
MW-7	03/30/1990	Primary	EPA 602	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--
MW-7	6/1/1990	Primary	EPA 602	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16.																					
APT-1	3/11/1991	Primary	EPA 8020	<0.0003	<0.0003	<0.0003	<0.001	--	<0.0003	<0.001	<0.0007	<0.0007	--	--	--	--	--	--	--	--	--
MW-2	3/12/1991	Primary	EPA 8020	<0.0003	<0.0003	<0.0003	<0.001	--	<0.0003	<0.001	<0.0007	<0.0007	--	--	--	--	--	--	--	--	--
MW-6	3/13/1991	Primary	EPA 8020	<0.0003	<0.0003	<0.0003	<0.001	--	<0.0003	<0.001	<0.0007	<0.0007	--	--	--	--	--	--	--	--	--
MW-7	3/11/1991	Primary	EPA 8020	<0.0003	<0.0003	<0.0003	<0.001	--	<0.0003	<0.001	<0.0007	<0.0007	--	--	--	--	--	--	--	--	--
POT-9	3/12/1991	Primary	EPA 8020	<0.0003	<0.0003	<0.0003	<0.001	--	<0.0003	<0.001	<0.0007	<0.0007	--	--	--	--	--	--	--	--	--
POT-14	3/13/1991	Primary	EPA 8020	<0.0003	<0.0003	<0.0003	<0.001	--	<0.0003	<0.001	<0.0007	<0.0007	--	--	--	--	--	--	--	--	--
POT-15	3/14/1991	Primary	EPA 8020	<0.0003	<0.0003	<0.0003	<0.001	--	<0.0003	<0.001	<0.0007	<0.0007	--	--	--	--	--	--	--	--	--
POT-15	3/14/1991	Duplicate	EPA 8020	<0.0003	<0.0003	<0.0003	<0.001	--	<0.0003	<0.001	<0.0007	<0.0007	--	--	--	--	--	--	--	--	--
EMCON, 1998, Groundwater Monitoring and Sampling Report, Potrero Power Plant, 1201 Illinois Street, San Francisco, CA, First Quarter 1998, April.																					
MW-2	10/31/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	1/25/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/9/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/25/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	10/17/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	1/22/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/17/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/21/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	10/19/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	1/21/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/30/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/30/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	10/26/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/14/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/29/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/29/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	12/7/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/21/1995	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/27/1996	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/31/1990	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	1/25/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/9/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/25/1991	Primary	Unknown	<0.0005	<0.0005	**0.0008**	**0.0022**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/17/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Chloro-ethane	Chloro-ethylvinyl ether, 2-	Chloro-form	Chloro-methane	Chloro-toluene, 2-	Chloro-toluene, 4-	Dibromo-chloro-methane	Dibromo-chloro-propane	Dichloro-difluoro-methane	Dichloro-ethane, 1,1-	Dichloro-ethane, 1,2-	Dichloro-ethene, 1,1-	Dichloro-ethene, 1,2-, cis-	Dichloro-ethene, 1,2-, trans-	Dichloro-ethenes, 1,2-, total	Dichloro-propane, 1,2-	Dichloro-propane, 1,3-	Dichloro-propane, 2,2-
Ecology & the Environment, 1990, Site Characterization Report, Potrero Power Plant, October 26.																					
MW-1	11/--/1989	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	11/--/1989	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	11/--/1989	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	3/30/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	3/30/1990	Duplicate	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	11/--/1989	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	11/--/1989	Duplicate	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	03/30/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	03/30/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16.																					
APT-1	3/11/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	3/12/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/13/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/11/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-9	3/12/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-14	3/13/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	3/14/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	3/14/1991	Duplicate	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EMCON, 1998, Groundwater Monitoring and Sampling Report, Potrero Power Plant, 1201 Illinois Street, San Francisco, CA, First Quarter 1998, April.																					
MW-2	10/31/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	1/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/9/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	10/17/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	1/22/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/17/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/21/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	10/19/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	1/21/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	10/26/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/14/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	12/7/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/21/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/27/1996	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/31/1990	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	1/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/9/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/17/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Dichloro-propene, 1,1-	Dichloro-propene, 1,3-, cis-	Dichloro-propene, 1,3-, trans-	Ethylene dibromide	Hexachlor o-butadiene	Isopropyl-benzene	Isopropy-ltoluene, 4-	Methylene bromide	Methylene chloride	Naph-thalene	Propyl-benzene, 1-	Styrene	Tetrachlor o-ethane, 1,1,1,2-	Tetrachlor o-ethane, 1,1,2,2-	Tetrachlor oethene	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Trichloro-benzene, 1,2,3-
Ecology & the Environment, 1990, Site Characterization Report, Potrero Power Plant, October 26.																				
MW-1	11/--/1989	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	11/--/1989	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	11/--/1989	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	3/30/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	3/30/1990	Duplicate	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	11/--/1989	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	11/--/1989	Duplicate	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	03/30/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	03/30/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16.																				
APT-1	3/11/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	3/12/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/13/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/11/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-9	3/12/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-14	3/13/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	3/14/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	3/14/1991	Duplicate	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EMCON, 1998, Groundwater Monitoring and Sampling Report, Potrero Power Plant, 1201 Illinois Street, San Francisco, CA, First Quarter 1998, April.																				
MW-2	10/31/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	1/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/9/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	10/17/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	1/22/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/17/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/21/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	10/19/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	1/21/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	10/26/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/14/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	12/7/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/21/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/27/1996	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/31/1990	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	1/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/9/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/17/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Trichloro-benzene, 1,2,4-	Trichloro-ethane, 1,1,1-	Trichloro-ethane, 1,1,2-	Trichloro-ethene	Trichloro-fluoro-methane	Trichloro-propane, 1,2,3-	Trifluoro-1,2-dichloro-ethane, 1,1,2-	Trimethyl-benzene, 1,2,4-	Trimethyl-benzene, 1,3,5-	Vinyl chloride	Xylene, 1,2-	Xylene, 1,3- and/or 1,4-
Ecology & the Environment, 1990, Site Characterization Report, Potrero Power Plant, October 26.															
MW-1	11/--/1989	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	11/--/1989	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	11/--/1989	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	3/30/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	3/30/1990	Duplicate	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	11/--/1989	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	11/--/1989	Duplicate	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	03/30/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	03/30/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/1/1990	Primary	EPA 602	--	--	--	--	--	--	--	--	--	--	--	--
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16.															
APT-1	3/11/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	3/12/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/13/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/11/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--
POT-9	3/12/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--
POT-14	3/13/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	3/14/1991	Primary	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--
POT-15	3/14/1991	Duplicate	EPA 8020	--	--	--	--	--	--	--	--	--	--	--	--
EMCON, 1998, Groundwater Monitoring and Sampling Report, Potrero Power Plant, 1201 Illinois Street, San Francisco, CA, First Quarter 1998, April.															
MW-2	10/31/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	1/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/9/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	10/17/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	1/22/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/17/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/21/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	10/19/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	1/21/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	10/26/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/14/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	12/7/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/21/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/27/1996	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/31/1990	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	1/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/9/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/17/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Benzene	Toluene	Ethyl benzene	Xylenes, total	MTBE	Chlorobenzene	Dichlorobenzene, 1,2-	Dichlorobenzene, 1,3-	Dichlorobenzene, 1,4-	Bromo benzene	Bromo-chloromethane	Bromo-dichloro-methane	Bromo-form	Bromo-methane	Butyl-benzene, 1-	Butyl-benzene, sec-	Butyl-benzene, tert-	Carbon tetra-chloride
MW-4	1/22/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/17/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/21/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/19/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	1/21/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/30/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/30/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/26/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/14/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/29/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/29/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/7/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/21/1995	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/31/1990	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	1/25/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/9/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/25/1991	Primary	Unknown	<0.0005	<0.0005	**0.0009**	**0.0023**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/17/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	1/22/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/17/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/21/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/19/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	1/21/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/30/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/30/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/26/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/14/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/29/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/29/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/7/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/21/1995	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	5/17/1995	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/11/1995	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/19/1995	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/1996	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/31/1990	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/25/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/9/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/25/1991	Primary	Unknown	<0.0005	<0.0005	**0.0009**	**0.0019**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/17/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/22/1992	Primary	Unknown	**0.0027**	**0.005**	**0.0009**	**0.0052**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/17/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/21/1992	Primary	Unknown	<0.0005	**0.0011**	<0.0005	**0.0013**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/19/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/21/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/30/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/30/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/26/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/14/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/29/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/29/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/7/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Chloro-ethane	Chloro-ethylvinyl ether, 2-	Chloro-form	Chloro-methane	Chloro-toluene, 2-	Chloro-toluene, 4-	Dibromo-chloro-methane	Dibromo-chloro-propane	Dichloro-difluoro-methane	Dichloro-ethane, 1,1-	Dichloro-ethane, 1,2-	Dichloro-ethene, 1,1-	Dichloro-ethene, 1,2-, cis-	Dichloro-ethene, 1,2-, trans-	Dichloro-ethenes, 1,2-, total	Dichloro-propane, 1,2-	Dichloro-propane, 1,3-	Dichloro-propane, 2,2-
MW-4	1/22/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/17/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/21/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/19/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	1/21/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/26/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/14/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/7/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/21/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/31/1990	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	1/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/9/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/17/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	1/22/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/17/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/21/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/19/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	1/21/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/26/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/14/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/7/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/21/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	5/17/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/11/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/19/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/1996	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/31/1990	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/9/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/17/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/22/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/17/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/21/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/19/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/21/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/26/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/14/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/7/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Dichloro-propene, 1,1-	Dichloro-propene, 1,3-, cis-	Dichloro-propene, 1,3-, trans-	Ethylene dibromide	Hexachlor o-butadiene	Isopropyl-benzene	Isopropy-ltoluene, 4-	Methylene bromide	Methylene chloride	Naph-thalene	Propyl-benzene, 1-	Styrene	Tetrachlor o-ethane, 1,1,1,2-	Tetrachlor o-ethane, 1,1,2,2-	Tetrachlor oethene	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Trichloro-benzene, 1,2,3-
MW-4	1/22/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/17/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/21/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/19/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	1/21/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/26/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/14/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/7/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/21/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/31/1990	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	1/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/9/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/17/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	1/22/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/17/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/21/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/19/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	1/21/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/26/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/14/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/7/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/21/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	5/17/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/11/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/19/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/1996	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/31/1990	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/9/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/17/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/22/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/17/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/21/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/19/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/21/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/26/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/14/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/7/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Trichloro-benzene, 1,2,4-	Trichloro-ethane, 1,1,1-	Trichloro-ethane, 1,1,2-	Trichloro-ethene	Trichloro-fluoro-methane	Trichloro-propane, 1,2,3-	Trifluoro-1,2-dichloro-ethane, 1,1,2-	Trimethyl-benzene, 1,2,4-	Trimethyl-benzene, 1,3,5-	Vinyl chloride	Xylene, 1,2-	Xylene, 1,3- and/or 1,4-
MW-4	1/22/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/17/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/21/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/19/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	1/21/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/26/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/14/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/7/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/21/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/31/1990	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	1/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/9/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/17/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	1/22/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/17/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/21/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/19/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	1/21/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/26/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/14/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/7/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/21/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	5/17/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/11/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/19/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/1996	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/31/1990	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/9/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/17/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/22/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/17/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/21/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/19/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/21/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/26/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/14/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/7/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Benzene	Toluene	Ethyl benzene	Xylenes, total	MTBE	Chlorobenzene	Dichlorobenzene, 1,2-	Dichlorobenzene, 1,3-	Dichlorobenzene, 1,4-	Bromo benzene	Bromo-chloromethane	Bromo-dichloro-methane	Bromo-form	Bromo-methane	Butyl-benzene, 1-	Butyl-benzene, sec-	Butyl-benzene, tert-	Carbon tetra-chloride
MW-6	2/21/1995	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/31/1990	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/25/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/9/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/25/1991	Primary	Unknown	<0.0005	<0.0005	**0.0007**	**0.002**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/17/1991	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/22/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/17/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	**0.0007**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/21/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/19/1992	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/21/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/30/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/30/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/26/1993	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/14/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/29/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/29/1994	Primary	Unknown	<0.0005	**0.0022**	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/7/1994	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/21/1995	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	5/17/1995	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/11/1995	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/11/1995	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/1996	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	5/16/1996	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/16/1996	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/21/1997	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/14/1997	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/13/1997	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/19/1997	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/19/1997	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/13/1998	Primary	Unknown	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June.																					
TB1-001	12/10/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB1-002	12/10/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB1-008	12/9/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB1-009	12/2/1997	Primary	EPA 8260	<0.05	<0.05	<0.05	<0.05	--	<0.05	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05
TB1-011	12/10/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB2-003	12/10/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB2-005	12/2/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB4-005	12/10/1997	Primary	EPA 8260	**0.0115**	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB4-006	12/9/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB4-007	12/10/1997	Primary	EPA 8260	**0.0149**	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB4-008	12/9/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB4-011	12/9/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB4-013	12/9/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB4-013	12/9/1997	Duplicate	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB4-015	12/9/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB5-001	12/10/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB5-002	12/2/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB5-003	12/2/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Chloro-ethane	Chloro-ethylvinyl ether, 2-	Chloro-form	Chloro-methane	Chloro-toluene, 2-	Chloro-toluene, 4-	Dibromo-chloro-methane	Dibromo-chloro-propane	Dichloro-difluoro-methane	Dichloro-ethane, 1,1-	Dichloro-ethane, 1,2-	Dichloro-ethene, 1,1-	Dichloro-ethene, 1,2-, cis-	Dichloro-ethene, 1,2-, trans-	Dichloro-ethenes, 1,2-, total	Dichloro-propane, 1,2-	Dichloro-propane, 1,3-	Dichloro-propane, 2,2-
MW-6	2/21/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/31/1990	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/9/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/17/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/22/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/17/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/21/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/19/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/21/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/26/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/14/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/7/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/21/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	5/17/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/11/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/11/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/1996	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	5/16/1996	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/16/1996	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/21/1997	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/14/1997	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/13/1997	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/19/1997	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/19/1997	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/13/1998	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June.																					
TB1-001	12/10/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB1-002	12/10/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB1-008	12/9/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB1-009	12/2/1997	Primary	EPA 8260	<0.1	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	<0.05	<0.05
TB1-011	12/10/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB2-003	12/10/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB2-005	12/2/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB4-005	12/10/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB4-006	12/9/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB4-007	12/10/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB4-008	12/9/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB4-011	12/9/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB4-013	12/9/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB4-013	12/9/1997	Duplicate	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB4-015	12/9/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB5-001	12/10/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB5-002	12/2/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
TB5-003	12/2/1997	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Dichloro-propene, 1,1-	Dichloro-propene, 1,3-, cis-	Dichloro-propene, 1,3-, trans-	Ethylene dibromide	Hexachlor o-butadiene	Isopropyl-benzene	Isopropy-ltoluene, 4-	Methylene bromide	Methylene chloride	Naph-thalene	Propyl-benzene, 1-	Styrene	Tetrachlor o-ethane, 1,1,1,2-	Tetrachlor o-ethane, 1,1,2,2-	Tetrachlor oethene	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Trichloro-benzene, 1,2,3-
MW-6	2/21/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/31/1990	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/9/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/17/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/22/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/17/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/21/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/19/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/21/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/26/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/14/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/7/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/21/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	5/17/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/11/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/11/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/1996	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	5/16/1996	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/16/1996	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/21/1997	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/14/1997	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/13/1997	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/19/1997	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/19/1997	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/13/1998	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June.																				
TB1-001	12/10/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB1-002	12/10/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	**0.0228**	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB1-008	12/9/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB1-009	12/2/1997	Primary	EPA 8260	<0.05	--	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
TB1-011	12/10/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB2-003	12/10/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB2-005	12/2/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB4-005	12/10/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	**0.00566**	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB4-006	12/9/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB4-007	12/10/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB4-008	12/9/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB4-011	12/9/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB4-013	12/9/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB4-013	12/9/1997	Duplicate	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB4-015	12/9/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB5-001	12/10/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB5-002	12/2/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB5-003	12/2/1997	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Trichloro-benzene, 1,2,4-	Trichloro-ethane, 1,1,1-	Trichloro-ethane, 1,1,2-	Trichloro-ethene	Trichloro-fluoro-methane	Trichloro-propane, 1,2,3-	Trifluoro-1,2-dichloro-ethane, 1,1,2-	Trimethyl-benzene, 1,2,4-	Trimethyl-benzene, 1,3,5-	Vinyl chloride	Xylene, 1,2-	Xylene, 1,3- and/or 1,4-
MW-6	2/21/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/31/1990	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/9/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/25/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/17/1991	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/22/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/17/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/21/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/19/1992	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/21/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/30/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/26/1993	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/14/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/29/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/7/1994	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/21/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	5/17/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/11/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/11/1995	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/1996	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	5/16/1996	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/16/1996	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/21/1997	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/14/1997	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/13/1997	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/19/1997	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/19/1997	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/13/1998	Primary	Unknown	--	--	--	--	--	--	--	--	--	--	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June.															
TB1-001	12/10/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB1-002	12/10/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB1-008	12/9/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB1-009	12/2/1997	Primary	EPA 8260	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	<0.05	<0.02	<0.05	<0.05
TB1-011	12/10/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB2-003	12/10/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB2-005	12/2/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB4-005	12/10/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB4-006	12/9/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB4-007	12/10/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB4-008	12/9/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB4-011	12/9/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB4-013	12/9/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB4-013	12/9/1997	Duplicate	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB4-015	12/9/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB5-001	12/10/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB5-002	12/2/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005
TB5-003	12/2/1997	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.002	<0.005	<0.005

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Benzene	Toluene	Ethyl benzene	Xylenes, total	MTBE	Chlorobenzene	Dichlorobenzene, 1,2-	Dichlorobenzene, 1,3-	Dichlorobenzene, 1,4-	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Butylbenzene, 1-	Butylbenzene, sec-	Butylbenzene, tert-	Carbon tetrachloride
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment Addendum, Potrero Power Plant, September.																					
APT-1	6/9/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-1	6/8/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	**0.003**	**0.0022**	<0.005	<0.005
MW-2	6/10/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-4	6/8/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-5	6/9/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-5	6/9/1998	Duplicate	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-6	6/8/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-7	6/9/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
POT-9	6/9/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
POT-14	6/8/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
POT-15	6/8/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
POT-15	6/8/1998	Duplicate	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
POT-15	6/8/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
POT-15	6/8/1998	Duplicate	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
TB4-017	3/9/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
Geomatrix Consultants, Inc., 2004, Ammonia Facility Construction Sampling, March. [2]																					
POT-15	2/25/2004	Primary	EPA 8260	**0.0054**	**0.0018**	**0.0012**	**0.0023**	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Chloro-ethane	Chloro-ethylvinyl ether, 2-	Chloro-form	Chloro-methane	Chloro-toluene, 2-	Chloro-toluene, 4-	Dibromo-chloro-methane	Dibromo-chloro-propane	Dichloro-difluoro-methane	Dichloro-ethane, 1,1-	Dichloro-ethane, 1,2-	Dichloro-ethene, 1,1-	Dichloro-ethene, 1,2-, cis-	Dichloro-ethene, 1,2-, trans-	Dichloro-ethenes, 1,2-, total	Dichloro-propane, 1,2-	Dichloro-propane, 1,3-	Dichloro-propane, 2,2-
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment Addendum, Potrero Power Plant, September.																					
APT-1	6/9/1998	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-1	6/8/1998	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-2	6/10/1998	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-4	6/8/1998	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-5	6/9/1998	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-5	6/9/1998	Duplicate	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-6	6/8/1998	Primary	EPA 8260	<0.01	--	**0.028**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-7	6/9/1998	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
POT-9	6/9/1998	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
POT-14	6/8/1998	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
POT-15	6/8/1998	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
POT-15	6/8/1998	Duplicate	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
POT-15	6/8/1998	Primary	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
POT-15	6/8/1998	Duplicate	EPA 8260	<0.01	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
TB4-017	3/9/1998	Primary	EPA 8260	<0.005	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
Geomatrix Consultants, Inc., 2004, Ammonia Facility Construction Sampling, March. [2]																					
POT-15	2/25/2004	Primary	EPA 8260	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0005	<0.0005

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Dichloro-propene, 1,1-	Dichloro-propene, 1,3-, cis-	Dichloro-propene, 1,3-, trans-	Ethylene dibromide	Hexachloro-butadiene	Isopropyl-benzene	Isopropy-ltoluene, 4-	Methylene bromide	Methylene chloride	Naph-thalene	Propyl-benzene, 1-	Styrene	Tetrachloro-ethane, 1,1,1,2-	Tetrachloro-ethane, 1,1,2,2-	Tetrachloroethene	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Trichloro-benzene, 1,2,3-
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment Addendum, Potrero Power Plant, September.																				
APT-1	6/9/1998	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
MW-1	6/8/1998	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	**0.0031**	<0.005	<0.005	<0.01	<0.005	**0.0042**	<0.005	<0.005	<0.005	<0.005	--	<0.005
MW-2	6/10/1998	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
MW-4	6/8/1998	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
MW-5	6/9/1998	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
MW-5	6/9/1998	Duplicate	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
MW-6	6/8/1998	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
MW-7	6/9/1998	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
POT-9	6/9/1998	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
POT-14	6/8/1998	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
POT-15	6/8/1998	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
POT-15	6/8/1998	Duplicate	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
POT-15	6/8/1998	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
POT-15	6/8/1998	Duplicate	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
TB4-017	3/9/1998	Primary	EPA 8260	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005
Geomatrix Consultants, Inc., 2004, Ammonia Facility Construction Sampling, March. [2]																				
POT-15	2/25/2004	Primary	EPA 8260	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**0.031**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001

TABLE C-10

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) IN GROUNDWATER SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Analytical Method	Trichloro-benzene, 1,2,4-	Trichloro-ethane, 1,1,1-	Trichloro-ethane, 1,1,2-	Trichloro-ethene	Trichloro-fluoro-methane	Trichloro-propane, 1,2,3-	Trifluoro-1,2-dichloro-ethane, 1,1,2-	Trimethyl-benzene, 1,2,4-	Trimethyl-benzene, 1,3,5-	Vinyl chloride	Xylene, 1,2-	Xylene, 1,3- and/or 1,4-
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment Addendum, Potrero Power Plant, September.															
APT-1	6/9/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.003	--	--
MW-1	6/8/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.003	--	--
MW-2	6/10/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.003	--	--
MW-4	6/8/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.003	--	--
MW-5	6/9/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.003	--	--
MW-5	6/9/1998	Duplicate	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.003	--	--
MW-6	6/8/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.003	--	--
MW-7	6/9/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.003	--	--
POT-9	6/9/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.003	--	--
POT-14	6/8/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.003	--	--
POT-15	6/8/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.003	--	--
POT-15	6/8/1998	Duplicate	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.003	--	--
POT-15	6/8/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.003	--	--
POT-15	6/8/1998	Duplicate	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.003	--	--
TB4-017	3/9/1998	Primary	EPA 8260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.003	--	--
Geomatrix Consultants, Inc., 2004, Ammonia Facility Construction Sampling, March. [2]															
POT-15	2/25/2004	Primary	EPA 8260	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--

Notes:

1. Groundwater samples collected from monitoring wells and analyzed for semivolatile organic compounds (SVOCs) EPA Method 8270 (1997) or EPA Method 8270C (2004).
2. A groundwater sample was collected from monitoring well POT-15 by Geomatrix Consultants, Inc., as part of pre-construction activities for the Ammonia Unloading/Storage Facility Area and analyzed for volatile organic compounds (SVOCs) using EPA Method 8260.
3. The analytical method used for the analysis of benzene, toluene, ethyl benzene, total xylenes, and methyl tert-butyl ether (MTBE) was not provided (EMCON, 1998).
4. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations:

EPA = U.S. Environmental Protection Agency
MTBE = methyl tert-butyl ether
ND = not detected
-- = not analyzed
< = concentration below detection limit

TABLE C-11

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) AND NAPHTHALENE IN SOIL VAPOR SAMPLES ANALYZED USING EPA METHOD 8260B[1]

Potrero Power Plant

San Francisco, California

All concentrations are milligrams per liter (µg/L).

Sample Point	Sample Depth (feet bgs)	Sample Date	Purge Volumes	Sample Type	Naphtha-lene	Benzene	Toluene	Ethyl-benzene	Xylenes	n-Butyl-benzene	sec-Butyl-benzene	Chloro-benzene	Chloro-form	Dichloro-difluoro-methane	Hexane	Isopropyl-benzene (cumene)	n-Propyl-benzene	Tetra-chloro-ethylene	1,1,1-Trichloro-ethane	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	C5-C8 Aliphatics	C9-C18 Aliphatics	C6-C8 Aromatics	C9-C16 Aromatics
SV10A	3.5	11/4/2009	3	Primary	<0.008	<0.008	**0.016**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		9/15/2010	3	Primary	**0.604**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	**0.604**
SV10B	6.5	11/4/2009	3	Primary	<0.008	<0.008	**0.158**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		9/15/2010	3	Primary	**0.538**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	**0.538**
SV15	4.1	11/5/2009	3	Primary	<0.008	**0.039**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	**0.039**	<0.025
SV16	5.2	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV17	4.8	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV21	5	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV23	5.5	11/3/2009	3	Primary	**0.21**	**0.272**	**0.368**	<0.008	**0.342**	<0.008	**0.031**	<0.008	<0.008	<0.008	**0.770**	<0.008	<0.020	<0.008	<0.008	**0.059**	<0.008	**20.4**	**12.8**	**0.982**	**0.3**
SV26	5	11/4/2009	3	Primary	<0.008	<0.008	**0.113**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV27	5.3	11/2/2009	3	Primary	<0.008	<0.008	**0.009**	<0.008	<0.008	<0.008	**0.017**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	**0.027**	**0.02**	<0.025	<0.025	<0.025	**0.064**
SV28	5.2	11/5/2009	3	Primary	**0.03**	**0.254**	**0.043**	<0.008	**0.23**	<0.008	<0.008	**0.601**	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	**0.527**	**0.631**
SV29	4.5	11/5/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV32	5.2	11/5/2009	3	Primary	<0.008	**0.032**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV33	4.8	11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV35	4.9	11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV38	5.1	11/2/2009	1	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		11/2/2009	7	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV40	5	11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV51	5.2	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV54A	3.75	11/3/2009	3	Primary	<0.008	<0.008	**0.032**	<0.008	**0.205**	<0.008	**0.018**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	**0.031**	**0.025**	<0.025	<0.025	**0.237**	**0.074**
SV54B	7.75	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV55	5.2	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV56	5	11/2/2009	1	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		11/2/2009	7	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		9/16/2010	1	Primary	**0.334**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	**0.334**
		9/16/2010	3	Primary	**0.180**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	**0.180**
		9/16/2010	10	Primary	**0.122**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	**0.122**
SV57	5.5	11/5/2009	3	Primary	**0.017**	**0.288**	**0.103**	**0.053**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	**0.444**	<0.025
SV58	5	11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV59	5	11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV60	5	11/5/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV61	5.1	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	**0.042**	<0.008	<0.020	<0.008	**0.172**	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV63	5.3	11/3/2009	3	Primary	<0.008	<0.008	**0.045**	<0.008	<0.008	<0.008	**0.026**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	**0.047**	**0.045**	<0.025	<0.025	**0.045**	**0.118**
SV64	4.75	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV65	5.5	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		9/16/2010	1	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	<0.2
		9/16/2010	1	Duplicate	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	<0.2
Count					39	39	39	39	39	39	39	39	39	39	39	39	33	39	39	39	39	39	39	39	39
Number of Detects					8	5	9	1	3	0	4	1	0	0	2	0	0	0	1	4	3	1	1	6	10
Number of Non-Detects					31	34	30	38	36	39	35	38	39	39	37	39	33	39	38	35	36	38	38	33	29
Minimum Detection					0.017	0.032	0.009	0.053	0.205	ND	0.017	0.601	ND	ND	0.042	ND	ND	ND	0.172	0.027	0.020	20.400	12.800	0.039	0.064
Maximum Detection					0.604	0.288	0.368	0.053	0.342	ND	0.031	0.601	ND	ND	0.770	ND	ND	ND	0.172	0.059	0.045	20.400	12.800	0.982	0.631
Minimum Reporting Limit					0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.02	0.008	0.008	0.008	0.008	0.025	0.025	0.025	0.025
Maximum Reporting Limit					0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.020	0.008	0.008	0.008	0.008	0.200	0.200	0.200	0.200
Detection Frequency					21%	13%	23%	3%	8%	0%	10%	3%	0%	0%	5%	0%	0%	0%	3%	10%	8%	3%	3%	15%	26%

Notes

1. Soil vapor samples were collected into a glass syringe and analyzed on-site using EPA Method 8260B by JEL.
2. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations

bolded results indicate that the analyte was detected above its analytical reporting limit

< = Not detected above the laboratory reporting limit shown

bgs = below ground surface

JEL = Jones Environmental Testing Laboratories, of Fullerton, California

NA = Not analyzed

ND = Not detected

TABLE C-12

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) AND NAPHTHALENE IN SOIL VAPOR SAMPLES ANALYZED USING EPA METHOD TO-15[1]

Potrero Power Plant

San Francisco, California

All concentrations are milligrams per liter (µg/L).

Sample Point	Sample Depth (feet bgs)	Sample Date	Purge Volumes	Sample Type	Naphtha-lene	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	Acetone	Chloro-benzene	Chloro-form	Dichloro-difluoro-methane	Hexane	Isopropyl-benzene (cumene)	Methyl Ethyl Ketone	n-Propyl-benzene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Tetra-chloro-ethylene	Tetra-hydro-furan	Trichloro-fluoro-methane
SV40	5	11/2/2009	3	Primary	<0.024	<0.0037	<0.0044	<0.005	<0.005	<0.005	**0.011 J**	<0.0054	<0.0057	**0.0086**	<0.0041	<0.0057	**0.0059**	<0.0057	<0.0057	<0.0057	<0.0079	**0.013**	**0.0092**
SV55	5.2	11/3/2009	3	Primary	<0.050	<0.0076	**0.026**	<0.01	**0.016**	<0.01	<0.023	<0.011	<0.012	<0.012	<0.0084	<0.012	<0.007	<0.012	<0.012	<0.012	<0.016	<0.007	<0.013
SV65	5.5	9/16/2010	1	Primary	<0.025	<0.0039	<0.0046	<0.0052	<0.0052	<0.0052	**0.02**	<0.0056	<0.0059	<0.006	<0.0043	<0.0059	<0.0036	<0.0059	<0.0059	<0.0059	**0.01**	<0.0036	<0.0068
				Count	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3
				Number of Detects	0	0	1	0	1	0	1	0	0	1	0	0	1	0	0	0	1	1	1
				Number of Non-Detects	3	3	2	3	2	3	1	3	3	2	3	3	2	3	3	3	2	2	2
				Minimum Detection	ND	ND	0.026	ND	0.016	ND	0.020	ND	ND	0.009	ND	ND	0.006	ND	ND	ND	0.010	0.013	0.009
				Maximum Detection	ND	ND	0.026	ND	0.016	ND	0.020	ND	ND	0.009	ND	ND	0.006	ND	ND	ND	0.010	0.013	0.009
				Minimum Reporting Limit	0.024	0.0037	0.0044	0.005	0.005	0.005	0.023	0.0054	0.0057	0.006	0.0041	0.0057	0.0036	0.0057	0.0057	0.0057	0.0079	0.0036	0.0068
				Maximum Reporting Limit	0.050	0.008	0.005	0.010	0.005	0.010	0.023	0.011	0.012	0.012	0.008	0.012	0.007	0.012	0.012	0.012	0.016	0.007	0.013
				Detection Frequency	0%	0%	33%	0%	33%	0%	50%	0%	0%	33%	0%	0%	33%	0%	0%	0%	33%	33%	33%

Note

1. Soil vapor samples were collected into a Summa™ canister by AMEC Geomatrix, Inc. and analyzed using U.S. EPA Method TO-15 by Air Toxics.
2. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations

bolded results indicate that the analyte was detected above its analytical reporting limit
< = not detected above the laboratory reporting limit shown
Air Toxics = Air Toxics, Limited, of Folsom, California
bgs = below ground surface
MTBE = methyl tert-butyl ether
NA = not analyzed

TABLE C-13

SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER SAMPLES [1]

Station A, Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Silica Gel Cleanup	Analytical Method	TPH	TPH as bunker oil	TPH as diesel	TPH as gasoline	TPH as motor oil	TPH as Stoddard solvent	TPH, C10-C36	TPH as Kerosene
Ecology & the Environment, 1990, Site Characterization Report, Potrero Power Plant, October 26												
MW-1	11/1989	Primary	No	EPA 8015	**69.4**	--	**69.4**	<2	<2	--	--	--
MW-1	02/22/1990	Primary	No	EPA 8015	**29.4**	--	**29.4**	<0.1	<0.5	--	--	--
MW-1	02/22/1990	Primary/Duplicate [4]	No	EPA 8015	**30.8**	--	**30.8**	<0.1	<0.5	--	--	--
MW-1	6/1/1990	Primary	No	EPA 8015	**537**	--	**537**	<0.1	<0.5	--	--	--
MW-2	11/1989	Primary	No	EPA 8015	--	--	<0.2	<0.2	<0.2	--	--	--
MW-2	02/22/1990	Primary	No	EPA 8015	--	--	<0.2	<0.1	<0.5	--	--	--
MW-2	6/1/1990	Primary	No	EPA 8015	--	--	<0.2	<0.1	<0.5	--	--	--
MW-3	11/1989	Primary	No	EPA 8015	**669**	--	**626**	<2	**43**	--	--	--
MW-3	02/22/1990	Primary	No	EPA 8015	**793.2**	--	**765**	<0.1	**28.2**	--	--	--
MW-3	6/1/1990	Primary	No	EPA 8015	**4776**	--	**4670**	<2	**106**	--	--	--
MW-4	3/30/1990	Primary	No	EPA 8015	--	--	<0.2	<0.1	<0.5	--	--	--
MW-4	3/30/1990	Primary/Duplicate [4]	No	EPA 8015	--	--	<0.2	<0.1	<0.5	--	--	--
MW-4	6/1/1990	Primary	No	EPA 8015	--	--	<0.2	<0.1	<0.5	--	--	--
MW-4	6/1/1990	Primary/Duplicate [4]	No	EPA 8015	--	--	<0.2	<0.1	<0.5	--	--	--
MW-5	11/1989	Primary	No	EPA 8015	**0.2**	--	**0.2**	<0.2	<0.2	--	--	--
MW-5	11/1989	Primary/Duplicate [4]	No	EPA 8015	**0.3**	--	**0.3**	<0.2	<0.2	--	--	--
MW-5	2/22/90	Primary	No	EPA 8015	--	--	<0.2	<0.1	<0.5	--	--	--
MW-5	6/1/1990	Primary	No	EPA 8015	--	--	<0.2	<0.1	<0.5	--	--	--
MW-6	03/30/1990	Primary	No	EPA 8015	--	--	<0.2	<0.1	<0.5	--	--	--
MW-6	6/1/1990	Primary	No	EPA 8015	--	--	<0.2	<0.1	<0.5	--	--	--
MW-7	03/30/1990	Primary	No	EPA 8015	--	--	<0.2	<0.1	<0.5	--	--	--
MW-7	6/1/1990	Primary	No	EPA 8015	--	--	<0.2	<0.1	<0.5	--	--	--
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16												
APT-1	3/11/1991	Primary	No	EPA 8015	--	--	<0.25	--	--	--	--	--
MW-2	3/12/1991	Primary	No	EPA 8015	--	--	<0.25	--	<0.1	--	--	--
MW-6	3/13/1991	Primary	No	EPA 8015	--	--	<0.25	--	<0.1	--	--	--
MW-7	3/11/1991	Primary	No	EPA 8015	--	--	<0.25	--	--	--	--	--
POT-9	3/12/1991	Primary	No	EPA 8015	--	--	<0.25	--	<0.1	--	--	--
POT-14	3/13/1991	Primary	No	EPA 8015	--	--	<0.25	--	**0.14**	--	--	--
POT-15	3/14/1991	Primary/Duplicate [4]	No	EPA 8015	--	--	<0.25	--	**1**	--	--	--
EMCON, 1998, Groundwater Monitoring and Sampling Report, Potrero Power Plant, 1201 Illinois Street, San Francisco, CA, First Quarter 1998, April												
MW-1	10/31/1991	Primary	No	EPA 8015	--	--	**540**	**29**	--	--	--	--
MW-2	10/31/1991	Primary	No	EPA 8015	--	--	**0.16**	<0.1	--	--	--	--
MW-2	1/25/1991	Primary	No	EPA 8015	--	--	<0.05	<0.1	--	--	--	--
MW-2	4/9/1991	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-2	7/25/1991	Primary	No	EPA 8015	--	--	**0.08**	<0.05	--	--	--	--
MW-2	10/17/1991	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-2	1/22/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-2	4/17/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-2	7/21/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-2	10/19/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-2	1/21/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--

TABLE C-13

SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER SAMPLES [1]

Station A, Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Silica Gel Cleanup	Analytical Method	TPH	TPH as bunker oil	TPH as diesel	TPH as gasoline	TPH as motor oil	TPH as Stoddard solvent	TPH, C10-C36	TPH as Kerosene
MW-2	4/30/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-2	7/30/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-2	10/26/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-2	2/14/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-2	4/29/1994	Primary	No	EPA 8015	--	--	<0.05	**0.15**	--	--	--	--
MW-2	7/29/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-2	12/7/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-2	2/21/1995	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-2	2/27/1996	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-2	3/14/1997	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-2	3/13/1998	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	10/31/1990	Primary	No	EPA 8015	--	--	<0.2	<0.1	--	--	--	--
MW-4	1/25/1991	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	4/9/1991	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	7/25/1991	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	10/17/1991	Primary	No	EPA 8015	--	--	**0.06**	<0.05	--	--	--	--
MW-4	1/22/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	4/17/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	7/21/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	10/19/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	1/21/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	4/30/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	7/30/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	10/26/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	2/14/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	4/29/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	7/29/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	12/7/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-4	2/21/1995	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-5	10/31/1990	Primary	No	EPA 8015	--	--	<0.2	<0.1	--	--	--	--
MW-5	1/25/1991	Primary	No	EPA 8015	--	--	<0.05	<0.1	--	--	--	--
MW-5	4/9/1991	Primary	No	EPA 8015	--	--	**0.11**	<0.05	--	--	--	--
MW-5	7/25/1991	Primary	No	EPA 8015	--	--	**0.16**	<0.05	--	--	--	--
MW-5	10/17/1991	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-5	1/22/1992	Primary	No	EPA 8015	--	--	**0.41**	<0.05	--	--	--	--
MW-5	4/17/1992	Primary	No	EPA 8015	--	--	**0.26**	<0.05	--	--	--	--
MW-5	7/21/1992	Primary	No	EPA 8015	--	--	**0.21**	<0.05	--	--	--	--
MW-5	10/19/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-5	1/21/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-5	4/30/1993	Primary	No	EPA 8015	--	--	**0.3**	<0.05	--	--	--	--

TABLE C-13

SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER SAMPLES [1]

Station A, Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Silica Gel Cleanup	Analytical Method	TPH	TPH as bunker oil	TPH as diesel	TPH as gasoline	TPH as motor oil	TPH as Stoddard solvent	TPH, C10-C36	TPH as Kerosene
MW-5	7/30/1993	Primary	No	EPA 8015	--	--	**0.19**	<0.05	**1.9**	--	--	--
MW-5	10/26/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-5	2/14/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-5	4/29/1994	Primary	No	EPA 8015	--	--	**0.14**	<0.05	--	--	--	--
MW-5	7/29/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-5	12/7/1994	Primary	No	EPA 8015	--	--	**0.25**	<0.05	--	--	--	--
MW-5	2/21/1995	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-5	5/17/1995	Primary	No	EPA 8015	--	--	**0.053**	<0.05	--	--	--	--
MW-5	8/11/1995	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-5	12/19/1995	Primary	No	EPA 8015	--	--	**0.74**	<0.05	**2.1**	--	--	--
MW-5	2/27/1996	Primary	No	EPA 8015	--	--	**0.15**	<0.05	--	--	--	--
MW-5	5/16/1996	Primary	No	EPA 8015	--	--	**0.21**	<0.05	--	--	--	--
MW-5	8/16/1996	Primary	No	EPA 8015	--	--	**0.19**	<0.05	--	--	--	--
MW-5	11/11/1996	Primary	No	EPA 8015	--	--	**0.4**	<0.05	--	--	--	--
MW-5	3/14/1997	Primary	No	EPA 8015	--	--	**0.17**	<0.05	--	--	--	--
MW-5	6/13/1997	Primary	No	EPA 8015	--	--	**0.27**	<0.05	--	--	--	--
MW-5	9/19/1997	Primary	No	EPA 8015	--	--	**0.23**	<0.05	--	--	--	--
MW-5	12/19/1997	Primary	No	EPA 8015	--	--	**0.21**	**0.15**	--	--	--	--
MW-5	3/13/1998	Primary	No	EPA 8015	--	--	**0.84**	<0.05	**1.3**	--	--	--
MW-6	10/31/1990	Primary	No	EPA 8015	--	--	<0.2	<0.1	--	--	--	--
MW-6	1/25/1991	Primary	No	EPA 8015	--	--	<0.05	<0.1	--	--	--	--
MW-6	4/9/1991	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-6	7/25/1991	Primary	No	EPA 8015	--	--	**0.1**	<0.05	--	--	--	--
MW-6	10/17/1991	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-6	1/22/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-6	4/17/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-6	7/21/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-6	10/19/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-6	1/21/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-6	4/30/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-6	7/30/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-6	10/26/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-6	2/14/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-6	4/29/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-6	7/29/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-6	12/7/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-6	2/21/1995	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-7	10/31/1990	Primary	No	EPA 8015	--	--	<0.2	<0.1	--	--	--	--
MW-7	1/25/1991	Primary	No	EPA 8015	--	--	<0.05	<0.1	--	--	--	--
MW-7	4/9/1991	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--

TABLE C-13

SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER SAMPLES [1]

Station A, Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Silica Gel Cleanup	Analytical Method	TPH	TPH as bunker oil	TPH as diesel	TPH as gasoline	TPH as motor oil	TPH as Stoddard solvent	TPH, C10-C36	TPH as Kerosene
MW-7	7/25/1991	Primary	No	EPA 8015	--	--	**0.06**	<0.05	--	--	--	--
MW-7	10/17/1991	Primary	No	EPA 8015	--	--	**0.06**	<0.05	--	--	--	--
MW-7	1/22/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-7	4/17/1992	Primary	No	EPA 8015	--	--	<0.05	**0.55**	--	--	--	--
MW-7	7/21/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-7	10/19/1992	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-7	1/21/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-7	4/30/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-7	7/30/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-7	10/26/1993	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-7	2/14/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-7	4/29/1994	Primary	No	EPA 8015	--	--	**0.091**	<0.05	--	--	--	--
MW-7	7/29/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-7	12/7/1994	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-7	2/21/1995	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-7	5/17/1995	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-7	8/11/1995	Primary	No	EPA 8015	--	--	<0.05	<0.05	--	--	--	--
MW-7	12/11/1995	Primary	No	EPA 8015	--	--	**0.53**	**0.09**	--	--	--	--
MW-7	2/27/1996	Primary	No	EPA 8015	--	--	**0.15**	<0.05	--	--	--	--
MW-7	5/16/1996	Primary	No	EPA 8015	--	--	**2.1**	<0.05	--	--	--	--
MW-7	8/16/1996	Primary	No	EPA 8015	--	--	**0.6**	<0.05	--	--	--	--
MW-7	1/21/1997	Primary	No	EPA 8015	--	--	**1.2**	<0.05	--	--	--	--
MW-7	3/14/1997	Primary	No	EPA 8015	--	--	**0.12**	<0.05	--	--	--	--
MW-7	6/13/1997	Primary	No	EPA 8015	--	--	**0.29**	<0.05	--	--	--	--
MW-7	9/19/1997	Primary	No	EPA 8015	--	--	**0.21**	<0.05	--	--	--	--
MW-7	12/19/1997	Primary	No	EPA 8015	--	--	**0.28**	<0.05	--	--	--	--
MW-7	3/13/1998	Primary	No	EPA 8015	--	--	**0.2**	<0.05	--	--	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June												
APT-1	10/15/1997	Primary	No	EPA 8015	<0.5	--	--	--	--	--	--	--
MW-1	10/14/1997	Primary	No	EPA 8015	**15.3**	--	--	--	--	--	--	--
MW-2	10/14/1997	Primary	No	EPA 8015	<0.5	--	--	--	--	--	--	--
MW-4	10/14/1997	Primary	No	EPA 8015	<0.5	--	--	--	--	--	--	--
MW-5	10/14/1997	Primary	No	EPA 8015	<0.5	--	--	--	--	--	--	--
MW-6	10/14/1997	Primary	No	EPA 8015	<0.5	--	--	--	--	--	--	--
MW-7	10/14/1997	Primary	No	EPA 8015	<0.5	--	--	--	--	--	--	--
POT-9	10/14/1997	Primary	No	EPA 8015	**1.23**	--	--	--	--	--	--	--
POT-14	10/15/1997	Primary	No	EPA 8015	<0.5	--	--	--	--	--	--	--
POT-15	10/15/1997	Primary	No	EPA 8015	**1.64**	--	--	--	--	--	--	--

TABLE C-13

SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER SAMPLES [1]

Station A, Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Sample Point	Sample Date	Sample Type	Silica Gel Cleanup	Analytical Method	TPH	TPH as bunker oil	TPH as diesel	TPH as gasoline	TPH as motor oil	TPH as Stoddard solvent	TPH, C10-C36	TPH as Kerosene
TB1-001	12/10/1997	Primary	No	EPA 8015	<0.5	--	--	--	--	--	--	--
TB1-002	12/10/1997	Primary	No	EPA 8015	**8.03**	--	--	--	--	--	--	--
TB1-008	12/9/1997	Primary	No	EPA 8015	**0.64**	--	--	--	--	--	--	--
TB1-009	12/2/1997	Primary	No	EPA 8015	**91.3**	--	--	--	--	--	--	--
TB1-011	12/10/1997	Primary	No	EPA 8015	<0.5	--	--	--	--	--	--	--
TB2-003	12/10/1997	Primary	No	EPA 8015	<0.5	--	--	--	--	--	--	--
TB2-005	12/2/1997	Primary	No	EPA 8015	**0.54**	--	--	--	--	--	--	--
TB4-005	12/10/1997	Primary	No	EPA 8015	**5.9**	--	--	--	--	--	--	--
TB4-006	12/9/1997	Primary	No	EPA 8015	**2.4**	--	--	--	--	--	--	--
TB4-007	12/10/1997	Primary	No	EPA 8015	<0.5	--	--	--	--	--	--	--
TB4-008	12/9/1997	Primary	No	EPA 8015	**1.61**	--	--	--	--	--	--	--
TB4-011	12/9/1997	Primary	No	EPA 8015	**38.9**	--	--	--	--	--	--	--
TB4-013	12/9/1997	Primary/Duplicate [4]	No	EPA 8015	**1.28**	--	--	--	--	--	--	--
TB4-015	12/9/1997	Primary	No	EPA 8015	**54.6**	--	--	--	--	--	--	--
TB4-017	3/9/1998	Primary	No	EPA 8015M	**0.21**	--	--	--	--	--	--	--
TB5-001	12/10/1997	Primary	No	EPA 8015	<0.5	--	--	--	--	--	--	--
TB5-002	12/2/1997	Primary	No	EPA 8015	**1.12**	--	--	--	--	--	--	--
TB5-003	12/2/1997	Primary	No	EPA 8015	<0.5	--	--	--	--	--	--	--
Geomatrix Consultants, Inc., 2000, Report of Results, Additional Site Characterization, Potrero Power Plant Site, April												
POT-9	1/4/2000	Primary	Yes [2]	EPA 8015M	--	<0.05	<0.05	--	<0.5	<0.05	--	<0.05
TB4-007	1/5/2000	Primary	Yes	EPA 8015M	--	<0.05	**0.072**	--	<0.5	<0.05	--	<0.05
TB4-008	1/4/2000	Primary	Yes	EPA 8015M	--	<0.05	**0.1**	--	<0.5	<0.05	--	<0.05
TB4-011	1/5/2000	Primary/Duplicate [4]	Yes	EPA 8015M	--	<0.05	<0.05	--	<0.5	<0.05	**3.8**	<0.05
TB4-013	1/4/2000	Primary	Yes	EPA 8015M	--	<0.05	<0.05	--	<0.5	<0.05	--	<0.05
TB4-017	1/4/2000	Primary	Yes	EPA 8015M	--	<0.05	<0.05	--	<0.5	<0.05	--	<0.05
TB6-002	1/10/2000	Primary/Duplicate [4]	Yes	EPA 8015M	--	<0.05	<0.05	--	<0.5	<0.05	--	<0.05
Geomatrix Consultants, Inc., 2004, Ammonia Facility Construction Sampling, March [3]												
POT-15	2/25/2004	Primary	No	EPA 8260	--	--	--	**0.077**	--	--	--	--
POT-15	2/25/2004	Primary	No	EPA 8270	--	--	**0.33**	--	<0.1	--	--	--
POT-15	2/25/2004	Primary	Yes	EPA 8270	--	--	<0.05	--	<0.1	--	--	--
				Count	35	7	152	137	35	7	1	7
				Number of Detects	22	0	48	6	8	0	1	0
				Number of Non-Detects	13	7	104	131	27	7	0	7
				Minimum Detection	0.21	ND	0.053	0.077	0.14	ND	3.8	ND
				Maximum Detection	4,776	ND	4,670	29	106	ND	4	ND
				Minimum Reporting Limit	0.5	0.05	0.05	0.05	0.1	0.05	NA	0.05
				Maximum Reporting Limit	0.5	0.05	0.25	2	2	0.05	NA	0.05
				Detection Frequency	63%	0%	32%	4%	23%	0%	100%	0%

TABLE C-13

SUMMARY OF ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER SAMPLES [1]

Station A, Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (mg/L)

Notes

1. Groundwater samples collected from monitoring wells or temporary well points and analyzed for total petroleum hydrocarbons (TPH) using EPA Method 8015 from 1991 to 2000; EPA Method 8260 (TPH quantified as gasoline) in 2004, and EPA Method 8270 (TPH quantified as diesel and motor oil) in 2004.
2. Groundwater samples were analyzed with silica gel cleanup in general accordance with EPA Method 3510 (Geomatrix, 2000).
3. A groundwater sample was collected from monitoring well POT-15 by Geomatrix Consultants, Inc., as part of pre-construction activities for the Ammonia Unloading Storage Facility Area and analyzed for total petroleum hydrocarbons (TPH) using EPA Methods 8260 and 8270.
4. For primary and duplicate sample pairs, the higher of the two results was selected for the calculation of summary statistics and exposure point concentrations. For constituents that were not detected in either sample, the lower of the two reporting limits is presented. Analytical results for both the primary and duplicate samples are presented in Appendix A.
5. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations

"**Bold**" = detected above the laboratory reporting limit
< = not detected above the laboratory reporting limit
-- = not analyzed
EPA = U.S. Environmental Protection Agency
NA = not applicable
ND = not detected

TABLE C-14

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) AND NAPHTHALENE IN SOIL VAPOR SAMPLES BY SOIL VAPOR PROBE [1]

Potrero Power Plant

San Francisco, California

All concentrations are milligrams per liter (µg/L).

Sample Point	Sample Depth (feet bgs)	Sample Date	Purge Volumes	Analytical Method	Naphtha-lene	Benzene	Toluene	Ethyl-benzene	Xylenes	m,p-Xylenes	Acetone	n-Butyl-benzene	sec-Butyl-benzene	Chloro-benzene	Chloro-form	Dichloro-difluoro-methane	Hexane	Isopropyl-benzene (cumene)	Methyl Ethyl Ketone	n-Propyl-benzene	1,1,1-Trichloro-ethane	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Tetra-chloro-ethylene	Tetra-hydro-furan	Trichloro-fluoro-methane
SV10A	3.5	11/4/2009	3	8260B	<0.008	<0.008	**0.016**	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/4/2009	3	TO-17	<0.0083	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11/4/2009	3	TO-17	<0.0083	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/15/2010	3	8260B	**0.604**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
SV10B	6.5	11/4/2009	3	8260B	<0.008	<0.008	**0.158**	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/4/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/15/2010	3	8260B	**0.538**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
SV15	4.1	11/5/2009	3	8260B	<0.008	**0.039**	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/5/2009	3	TO-17	<0.0094	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV16	5.2	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV17	4.8	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.0091	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV21	5	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV23	5.5	11/3/2009	3	8260B	**0.21**	**0.272**	**0.368**	<0.008	**0.342**	--	--	<0.008	**0.031**	<0.008	<0.008	<0.008	**0.770**	<0.008	--	<0.020	<0.008	**0.059**	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV26	5	11/4/2009	3	8260B	<0.008	<0.008	**0.113**	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
SV27	5.3	11/2/2009	3	8260B	<0.008	<0.008	**0.009**	<0.008	<0.008	--	--	<0.008	**0.017**	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	**0.027**	**0.02**	<0.008	--	--
		11/2/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV28	5.2	11/5/2009	3	8260B	**0.03**	**0.254**	**0.043**	<0.008	**0.23**	--	--	<0.008	<0.008	**0.601**	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
SV29	4.5	11/5/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/5/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV32	5.2	11/5/2009	3	8260B	<0.008	**0.032**	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/5/2009	3	TO-17	**0.094**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV33	4.8	11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.0099	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV35	4.9	11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV38	5.1	11/2/2009	1	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	7	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	7	TO-17	<0.0091	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV40	5	11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.0099	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11/2/2009	3	TO-17	<0.0099	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11/2/2009	3	TO-15	<0.024	<0.0037	<0.0044	<0.005	--	<0.005	**0.011 J**	--	--	<0.0054	<0.0057	**0.0086**	<0.0041	<0.0057	**0.0059**	<0.0057	--	<0.0057	<0.0057	<0.0079	**0.013**	**0.0092**
SV51	5.2	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.0092	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV54A	3.75	11/3/2009	3	8260B	<0.008	<0.008	**0.032**	<0.008	**0.205**	--	--	<0.008	**0.018**	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	**0.031**	**0.025**	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV54B	7.75	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV55	5.2	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11/3/2009	3	TO-15	<0.050	<0.0076	**0.026**	<0.01	--	**0.016**	<0.023	--	--	<0.011	<0.012	<0.012	<0.0084	<0.012	<0.007	<0.012	--	<0.012	<0.012	<0.016	<0.007	<0.013
SV56	5	11/2/2009	1	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	7	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/16/2010	1	8260B	**0.334**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
		9/16/2010	3	8260B	**0.180**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
		9/16/2010	10	8260B	**0.122**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
SV57	5.5	11/5/2009	3	8260B	**0.017**	**0.288**	**0.103**	**0.053**	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
SV58	5	11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE C-14

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) AND NAPHTHALENE IN SOIL VAPOR SAMPLES BY SOIL VAPOR PROBE [1]

Potrero Power Plant

San Francisco, California

All concentrations are milligrams per liter (µg/L).

Sample Point	Sample Depth (feet bgs)	Sample Date	Purge Volumes	Analytical Method	Naphtha-lene	Benzene	Toluene	Ethyl-benzene	Xylenes	m,p-Xylenes	Acetone	n-Butyl-benzene	sec-Butyl-benzene	Chloro-benzene	Chloro-form	Dichloro-difluoro-methane	Hexane	Isopropyl-benzene (cumene)	Methyl Ethyl Ketone	n-Propyl-benzene	1,1,1-Trichloro-ethane	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Tetra-chloro-ethylene	Tetra-hydro-furan	Trichloro-fluoro-methane
SV59	5	11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV60	5	11/5/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/5/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV61	5.1	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	**0.042**	<0.008	--	<0.020	**0.172**	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.0090	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV63	5.3	11/3/2009	3	8260B	<0.008	<0.008	**0.045**	<0.008	<0.008	--	--	<0.008	**0.026**	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	**0.047**	**0.045**	<0.008	--	--
		11/3/2009	3	TO-17	<0.0095	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV64	4.75	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV65	5.5	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.0099	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/16/2010	1	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
		9/16/2010	1	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
		9/16/2010	1	TO-15	<0.025	<0.0039	<0.0046	<0.0052	<0.0046	<0.0052	**0.02**	--	--	--	--	--	<0.0043	<0.0059	<0.0036	<0.0059	--	<0.0059	<0.0059	**0.01**	<0.0036	<0.0068

Notes

1. Soil vapor samples were (1) collected into a glass syringe and analyzed on-site using U.S. EPA Method 8260B by JEL, (2) collected into a sorbent tube by AMEC Geomatrix, Inc., and analyzed at a fixed laboratory using U.S. EPA Method TO-17 by Air Toxics, and (3) collected into a Summa™ canister by AMEC Geomatrix, Inc. and analyzed using U.S. EPA
2. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations

bolded results indicate that the analyte was detected above its analytical reporting limit

< = Not detected above the laboratory reporting limit shown

> = Concentration is greater than the value presented due to target analyte breakthrough

-- = Not analyzed

Air Toxics = Air Toxics, Limited, of Folsom, California

bgs = below ground surface

JEL = Jones Environmental Testing Laboratories, of Fullerton, California

TABLE C-15

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) AND NAPHTHALENE IN SOIL VAPOR SAMPLES ANALYZED USING EPA METHOD 8260B [1]

Station A, Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (µg/L).

Sample Point	Sample Depth (feet bgs)	Sample Date	Purge Volumes	Sample Type	Naphtha-lene	Benzene	Toluene	Ethyl-benzene	Xylenes	n-Butyl-benzene	sec-Butyl-benzene	Chloro-benzene	Chloro-form	Dichloro-difluoro-methane	Hexane	Isopropyl-benzene (cumene)	n-Propyl-benzene	Tetra-chloro-ethylene	1,1,1-Trichloro-ethane	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	C5-C8 Aliphatics	C9-C18 Aliphatics	C6-C8 Aromatics	C9-C16 Aromatics
SV10A	3.5	11/4/2009	3	Primary	<0.008	<0.008	**0.016**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		9/15/2010	3	Primary	**0.604**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	**0.604**
SV10B	6.5	11/4/2009	3	Primary	<0.008	<0.008	**0.158**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		9/15/2010	3	Primary	**0.538**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	**0.538**
SV15	4.1	11/5/2009	3	Primary	<0.008	**0.039**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	**0.039**	<0.025
SV16	5.2	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV17	4.8	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV21	5	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV23	5.5	11/3/2009	3	Primary	**0.21**	**0.272**	**0.368**	<0.008	**0.342**	<0.008	**0.031**	<0.008	<0.008	<0.008	**0.770**	<0.008	<0.020	<0.008	<0.008	**0.059**	<0.008	**20.4**	**12.8**	**0.982**	**0.3**
SV26	5	11/4/2009	3	Primary	<0.008	<0.008	**0.113**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV27	5.3	11/2/2009	3	Primary	<0.008	<0.008	**0.009**	<0.008	<0.008	<0.008	**0.017**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	**0.027**	**0.02**	<0.025	<0.025	<0.025	**0.064**
SV28	5.2	11/5/2009	3	Primary	**0.03**	**0.254**	**0.043**	<0.008	**0.23**	<0.008	<0.008	**0.601**	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	**0.527**	**0.631**
SV29	4.5	11/5/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV32	5.2	11/5/2009	3	Primary	<0.008	**0.032**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV33	4.8	11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV35	4.9	11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV38	5.1	11/2/2009	1	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		11/2/2009	7	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV40	5	11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV51	5.2	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV54A	3.75	11/3/2009	3	Primary	<0.008	<0.008	**0.032**	<0.008	**0.205**	<0.008	**0.018**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	**0.031**	**0.025**	<0.025	<0.025	**0.237**	**0.074**
SV54B	7.75	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV55	5.2	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV56	5	11/2/2009	1	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		11/2/2009	7	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		9/16/2010	1	Primary	**0.334**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	**0.334**
		9/16/2010	3	Primary	**0.180**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	**0.180**
		9/16/2010	10	Primary	**0.122**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	**0.122**
SV57	5.5	11/5/2009	3	Primary	**0.017**	**0.288**	**0.103**	**0.053**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	**0.444**	<0.025
SV58	5	11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV59	5	11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV60	5	11/5/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV61	5.1	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	**0.042**	<0.008	<0.020	<0.008	**0.172**	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV63	5.3	11/3/2009	3	Primary	<0.008	<0.008	**0.045**	<0.008	<0.008	<0.008	**0.026**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	**0.047**	**0.045**	<0.025	<0.025	**0.045**	**0.118**
SV64	4.75	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV65	5.5	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		9/16/2010	1	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	<0.2
		9/16/2010	1	Duplicate	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	<0.2
Count					39	39	39	39	39	39	39	39	39	39	39	39	33	39	39	39	39	39	39	39	39
Number of Detects					8	5	9	1	3	0	4	1	0	0	2	0	0	0	1	4	3	1	1	6	10
Number of Non-Detects					31	34	30	38	36	39	35	38	39	39	37	39	33	39	38	35	36	38	38	33	29
Minimum Detection					0.017	0.032	0.009	0.053	0.205	ND	0.017	0.601	ND	ND	0.042	ND	ND	ND	0.172	0.027	0.020	20.400	12.800	0.039	0.064
Maximum Detection					0.604	0.288	0.368	0.053	0.342	ND	0.031	0.601	ND	ND	0.770	ND	ND	ND	0.172	0.059	0.045	20.400	12.800	0.982	0.631
Minimum Reporting Limit					0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.02	0.008	0.008	0.008	0.008	0.025	0.025	0.025	0.025
Maximum Reporting Limit					0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.020	0.008	0.008	0.008	0.008	0.200	0.200	0.200	0.200
Detection Frequency					21%	13%	23%	3%	8%	0%	10%	3%	0%	0%	5%	0%	0%	0%	3%	10%	8%	3%	3%	15%	26%

Note

1. Soil vapor samples were collected into a glass syringe and analyzed on-site using EPA Method 8260B by JEL.
2. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations

bolded results indicate that the analyte was detected above its analytical reporting limit
< = Not detected above the laboratory reporting limit shown
bgs = below ground surface
JEL = Jones Environmental Testing Laboratories, of Fullerton, California
NA = Not analyzed
ND = Not detected

TABLE C-16

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) AND NAPHTHALENE IN SOIL VAPOR SAMPLES ANALYZED USING EPA METHOD TO-15 [1]

Station A, Potrero Power Plant

San Francisco, California

All concentrations are milligrams per liter (µg/L).

Sample Point	Sample Depth (feet bgs)	Sample Date	Purge Volumes	Sample Type	Naphtha-lene	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	Acetone	Chloro-benzene	Chloro-form	Dichloro-difluoro-methane	Hexane	Isopropyl-benzene (cumene)	Methyl Ethyl Ketone	n-Propyl-benzene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Tetra-chloro-ethylene	Tetra-hydro-furan	Trichloro-fluoro-methane
SV40	5	11/2/2009	3	Primary	<0.024	<0.0037	<0.0044	<0.005	<0.005	<0.005	**0.011 J**	<0.0054	<0.0057	**0.0086**	<0.0041	<0.0057	**0.0059**	<0.0057	<0.0057	<0.0057	<0.0079	**0.013**	**0.0092**
SV55	5.2	11/3/2009	3	Primary	<0.050	<0.0076	**0.026**	<0.01	**0.016**	<0.01	<0.023	<0.011	<0.012	<0.012	<0.0084	<0.012	<0.007	<0.012	<0.012	<0.012	<0.016	<0.007	<0.013
SV65	5.5	9/16/2010	1	Primary	<0.025	<0.0039	<0.0046	<0.0052	<0.0052	<0.0052	**0.02**	<0.0056	<0.0059	<0.006	<0.0043	<0.0059	<0.0036	<0.0059	<0.0059	<0.0059	**0.01**	<0.0036	<0.0068
Count					3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects					0	0	1	0	1	0	1	0	0	1	0	0	1	0	0	0	1	1	1
Number of Non-Detects					3	3	2	3	2	3	1	3	3	2	3	3	2	3	3	3	2	2	2
Minimum Detection					ND	ND	0.026	ND	0.016	ND	0.020	ND	ND	0.009	ND	ND	0.006	ND	ND	ND	0.010	0.013	0.009
Maximum Detection					ND	ND	0.026	ND	0.016	ND	0.020	ND	ND	0.009	ND	ND	0.006	ND	ND	ND	0.010	0.013	0.009
Minimum Reporting Limit					0.024	0.0037	0.0044	0.005	0.005	0.005	0.023	0.0054	0.0057	0.006	0.0041	0.0057	0.0036	0.0057	0.0057	0.0057	0.0079	0.0036	0.0068
Maximum Reporting Limit					0.050	0.008	0.005	0.010	0.005	0.010	0.023	0.011	0.012	0.012	0.008	0.012	0.007	0.012	0.012	0.012	0.016	0.007	0.013
Detection Frequency					0%	0%	33%	0%	33%	0%	50%	0%	0%	33%	0%	0%	33%	0%	0%	0%	33%	33%	33%

Note

1. Soil vapor samples were collected into a Summa™ canister by AMEC Geomatrix, Inc. and analyzed using U.S. EPA Method TO-15 by Air Toxics.
2. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations

bolded results indicate that the analyte was detected above its analytical reporting limit

< = not detected above the laboratory reporting limit shown

Air Toxics = Air Toxics, Limited, of Folsom, California

bgs = below ground surface

MTBE = methyl tert-butyl ether

NA = not analyzed

TABLE C-17

SUMMARY OF ANALYTICAL RESULTS FOR NAPHTHALENE AND 2-METHYLNAPHTHALENE IN SOIL VAPOR SAMPLES ANALYZED USING EPA METHOD TO-17 [1]

Station A, Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (µg/L).

Sample Point	Sample Depth (feet bgs)	Sample Date	Purge Volumes	Sample Type	Naphtha-lene	2-Methyl Naphtha-lene
SV10A	3.5	11/4/2009	3	Primary	<0.0083	<0.0083
SV10A	3.5	11/4/2009	3	Duplicate	<0.0083	<0.0083
SV10B	6.5	11/4/2009	3	Primary	<0.010	<0.010
SV15	4.1	11/5/2009	3	Primary	<0.0094	<0.0094
SV16	5.2	11/3/2009	3	Primary	<0.010	<0.010
SV17	4.8	11/3/2009	3	Primary	<0.0091	<0.0091
SV21	5	11/3/2009	3	Primary	<0.010	<0.010
SV23	5.5	11/3/2009	3	Primary	<0.050	<0.050
SV27	5.3	11/2/2009	3	Primary	<0.010	<0.010
SV29	4.5	11/5/2009	3	Primary	<0.010	<0.010
SV32	5.2	11/5/2009	3	Primary	**0.094**	<0.010
SV33	4.8	11/2/2009	3	Primary	<0.0099	<0.0099
SV35	4.9	11/2/2009	3	Primary	<0.010	<0.010
SV38	5.1	11/2/2009	7	Primary	<0.0091	<0.0091
SV40	5	11/2/2009	3	Primary	<0.0099	<0.0099
SV40	5	11/2/2009	3	Duplicate	<0.0099	<0.0099
SV51	5.2	11/3/2009	3	Primary	<0.0092	<0.0092
SV54A	3.8	11/3/2009	3	Primary	<0.010	<0.010
SV54B	7.8	11/3/2009	3	Primary	<0.010	<0.010
SV55	5.2	11/3/2009	3	Primary	<0.010	<0.010
SV55	5.2	11/3/2009	3	Primary	<0.010	<0.010
SV56	5	11/2/2009	3	Primary	<0.010	<0.010
SV58	5	11/2/2009	3	Replicate	<0.010	<0.010
SV59	5	11/2/2009	3	Primary	<0.010	<0.010
SV60	5	11/5/2009	3	Primary	<0.010	<0.010
SV61	5.1	11/3/2009	3	Primary	<0.0090	<0.0090
SV63	5.3	11/3/2009	3	Primary	<0.0095	<0.0095
SV64	4.75	11/3/2009	3	Primary	<0.010	<0.010
SV65	5.5	11/3/2009	3	Primary	<0.0099	<0.0099
				Count	26	26
				Number of Detects	1	0
				Number of Non-Detects	25	26
				Minimum Detection	0.094	0.000
				Maximum Detection	0.094	0.000
				Minimum Reporting Limit	0.0083	0.0083
				Maximum Reporting Limit	0.050	0.050
				Detection Frequency	4%	0%

Note

1. Soil vapor samples were collected into a sorbent tube by AMEC Geomatrix, Inc., and analyzed at a fixed laboratory using EPA Method TO-17 by Air Toxics, Ltd.
2. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations

bolded results indicate that the analyte was detected above its analytical reporting limit

< = Not detected above the laboratory reporting limit shown

Air Toxics = Air Toxics, Limited, of Folsom, California

TABLE C-18

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) AND NAPHTHALENE IN SOIL VAPOR SAMPLES BY SOIL VAPOR PROBE [1]

Station A, Potrero Power Plant

San Francisco, California

All concentrations are milligrams per liter (µg/L).

Sample Point	Sample Depth (feet bgs)	Sample Date	Purge Volumes	Analytical Method	Naphthalene	Benzene	Toluene	Ethylbenzene	Xylenes	m,p-Xylenes	Acetone	n-Butylbenzene	sec-Butylbenzene	Chlorobenzene	Chloroform	Dichlorodifluoromethane	Hexane	Isopropylbenzene (cumene)	Methyl Ethyl Ketone	n-Propylbenzene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Tetrachloroethylene	Tetrahydrofuran	Trichlorofluoromethane
SV10A	3.5	11/4/2009	3	8260B	<0.008	<0.008	**0.016**	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/4/2009	3	TO-17	<0.0083	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11/4/2009	3	TO-17	<0.0083	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/15/2010	3	8260B	**0.604**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
SV10B	6.5	11/4/2009	3	8260B	<0.008	<0.008	**0.158**	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/4/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/15/2010	3	8260B	**0.538**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
SV15	4.1	11/5/2009	3	8260B	<0.008	**0.039**	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/5/2009	3	TO-17	<0.0094	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV16	5.2	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV17	4.8	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.0091	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV21	5	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV23	5.5	11/3/2009	3	8260B	**0.21**	**0.272**	**0.368**	<0.008	**0.342**	--	--	<0.008	**0.031**	<0.008	<0.008	<0.008	**0.770**	<0.008	--	<0.020	<0.008	**0.059**	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV26	5	11/4/2009	3	8260B	<0.008	<0.008	**0.113**	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
SV27	5.3	11/2/2009	3	8260B	<0.008	<0.008	**0.009**	<0.008	<0.008	--	--	<0.008	**0.017**	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	**0.027**	**0.02**	<0.008	--	--
		11/2/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV28	5.2	11/5/2009	3	8260B	**0.03**	**0.254**	**0.043**	<0.008	**0.23**	--	--	<0.008	<0.008	**0.601**	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
SV29	4.5	11/5/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/5/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV32	5.2	11/5/2009	3	8260B	<0.008	**0.032**	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/5/2009	3	TO-17	**0.094**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV33	4.8	11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.0099	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV35	4.9	11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV38	5.1	11/2/2009	1	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	7	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	7	TO-17	<0.0091	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV40	5	11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.0099	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11/2/2009	3	TO-17	<0.0099	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11/2/2009	3	TO-15	<0.024	<0.0037	<0.0044	<0.005	--	<0.005	**0.011 J**	--	--	<0.0054	<0.0057	**0.0086**	<0.0041	<0.0057	**0.0059**	<0.0057	--	<0.0057	<0.0057	<0.0079	**0.013**	**0.0092**
SV51	5.2	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.0092	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV54A	3.75	11/3/2009	3	8260B	<0.008	<0.008	**0.032**	<0.008	**0.205**	--	--	<0.008	**0.018**	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	**0.031**	**0.025**	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV54B	7.75	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV55	5.2	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11/3/2009	3	TO-15	<0.050	<0.0076	**0.026**	<0.01	--	**0.016**	<0.023	--	--	<0.011	<0.012	<0.012	<0.0084	<0.012	<0.007	<0.012	--	<0.012	<0.012	<0.016	<0.007	<0.013
SV56	5	11/2/2009	1	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	7	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/16/2010	1	8260B	**0.334**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
		9/16/2010	3	8260B	**0.180**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
		9/16/2010	10	8260B	**0.122**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
SV57	5.5	11/5/2009	3	8260B	**0.017**	**0.288**	**0.103**	**0.053**	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
SV58	5	11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE C-18

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) AND NAPHTHALENE IN SOIL VAPOR SAMPLES BY SOIL VAPOR PROBE [1]
Station A, Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (µg/L).

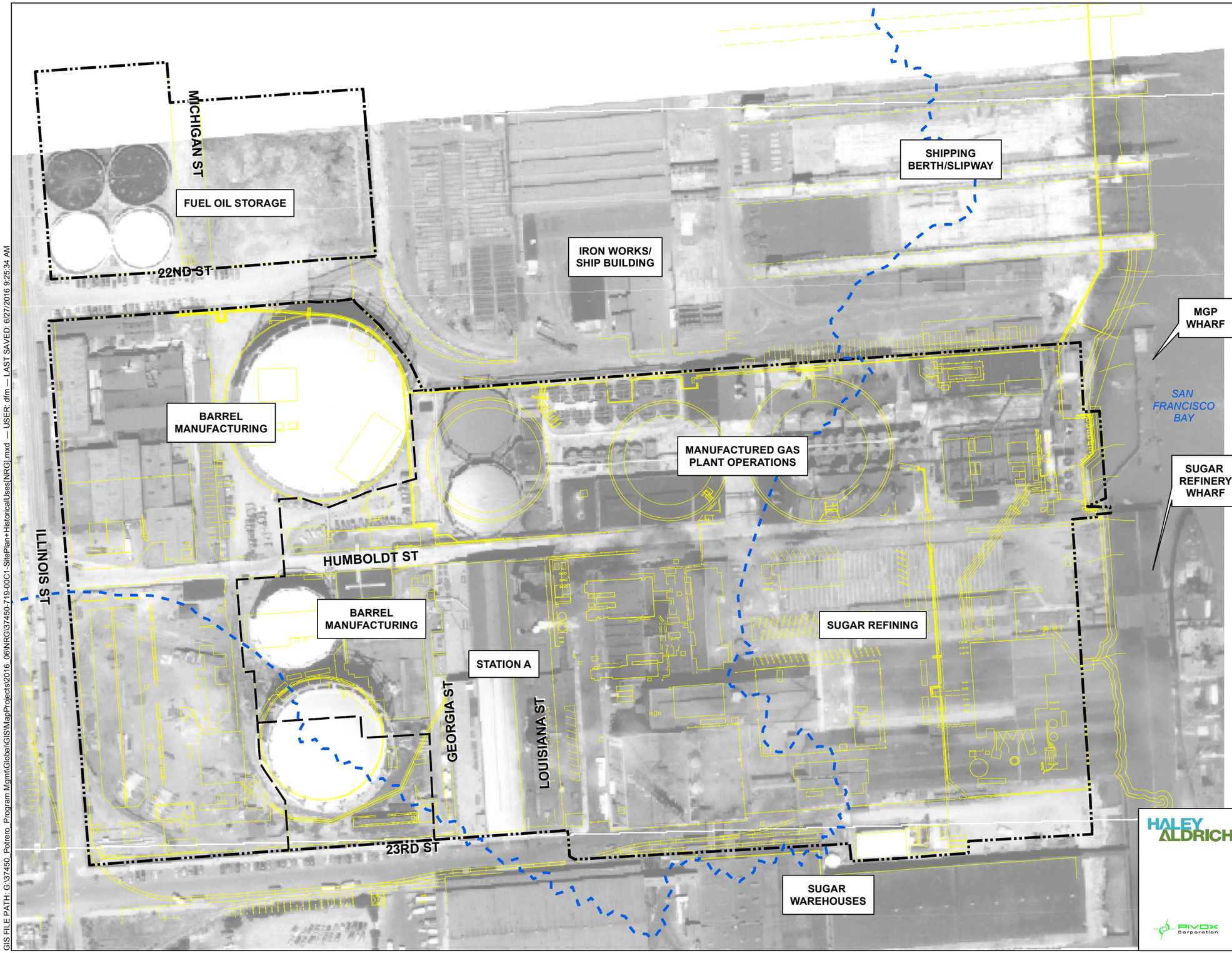
Sample Point	Sample Depth (feet bgs)	Sample Date	Purge Volumes	Analytical Method	Naphtha-lene	Benzene	Toluene	Ethyl-benzene	Xylenes	m,p-Xylenes	Acetone	n-Butyl-benzene	sec-Butyl-benzene	Chloro-benzene	Chloro-form	Dichloro-difluoro-methane	Hexane	Isopropyl-benzene (cumene)	Methyl Ethyl Ketone	n-Propyl-benzene	1,1,1-Trichloro-ethane	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Tetra-chloro-ethylene	Tetra-hydro-furan	Trichloro-fluoro-methane
SV59	5	11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV60	5	11/5/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/5/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV61	5.1	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	**0.042**	<0.008	--	<0.020	**0.172**	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.0090	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV63	5.3	11/3/2009	3	8260B	<0.008	<0.008	**0.045**	<0.008	<0.008	--	--	<0.008	**0.026**	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	**0.047**	**0.045**	<0.008	--	--
		11/3/2009	3	TO-17	<0.0095	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV64	4.75	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV65	5.5	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.0099	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/16/2010	1	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
		9/16/2010	1	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
		9/16/2010	1	TO-15	<0.025	<0.0039	<0.0046	<0.0052	<0.0046	<0.0052	**0.02**	--	--	--	--	--	<0.0043	<0.0059	<0.0036	<0.0059	--	<0.0059	<0.0059	**0.01**	<0.0036	<0.0068

Note

1. Soil vapor samples were (1) collected into a glass syringe and analyzed on-site using U.S. EPA Method 8260B by JEL, (2) collected into a sorbent tube by AMEC Geomatrix, Inc., and analyzed at a fixed laboratory using U.S. EPA Method TO-17 by Air Toxics, and (3) collected into a Summa™ canister by AMEC Geomatrix, Inc. and analyzed using U.S. EPA Method
2. The results higlighted in green were sampled from the Station A PG&E Area.

Abbreviations

bolded results indicate that the analyte was detected above its analytical reporting limit
< = Not detected above the laboratory reporting limit shown
> = Concentration is greater than the value presented due to target analyte breakthrough
-- = Not analyzed
Air Toxics = Air Toxics, Limited, of Folsom, California
bgs = below ground surface
JEL = Jones Environmental Testing Laboratories, of Fullerton, California



LEGEND

- SITE BOUNDARY
- PROPERTY BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- EXISTING STRUCTURE
- APPROXIMATE 1851 SHORELINE

NOTES:

1. LOCATION AND DIMENSIONS OF SITE FEATURES ARE APPROXIMATE.
2. BASE MAP SOURCE: AMEC, 2011.
3. 1948 AERIAL PHOTOGRAPH USED FOR BACKGROUND IS FROM AMEC, FIGURE 4, DATED 11/07/2012
4. MGP = MANUFACTURED GAS PLANT.

N

0 140 280
SCALE IN FEET

HALEY ALDRICH

PACIFIC GAS AND ELECTRIC COMPANY (PG&E)
RISK MANAGMENT PLAN - STATION A - NRG AREA
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

SITE PLAN SHOWING LOCATIONS OF HISTORICAL USES

PIVOX Corporation

JUNE 2016

FIGURE C-1

GIS FILE PATH: G:\37450_Potrero_Program Mgmt\Global\GIS\MapProjects\2016_06\NRG\37450-719-00C1-SitePlan+HistoricalUses[NRG].mxd — USER: dfm — LAST SAVED: 6/27/2016 9:25:34 AM

PORT OF SAN FRANCISCO
PIER 70 PROPERTY

NRG POTRERO, LLC PROPERTY

PG&E
PROPERTY

BEDROCK RIDGE

SAN
FRANCISCO
BAY

LEGEND

- MONITORING WELL
- BEDROCK MONITORING WELL
- DECOMMISSIONED BAY MUD MONITORING WELL
- DECOMMISSIONED MONITORING WELL
- DECOMMISSIONED BEDROCK MONITORING WELL
- SOIL BORING LOCATION
- SITE BOUNDARY
- PROPERTY BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- APPROXIMATE 1851 SHORELINE
- STATION A AREA COVERED BY THE RISK MANAGMENT PLAN (PG&A AREA)
- STATION A AREA COVERED BY THE RISK MANAGMENT PLAN (NRG AREA)
- GROUNDWATER FLOW DIRECTION

NOTES:

1. LOCATION AND DIMENSIONS OF SITE FEATURES ARE APPROXIMATE.
2. BASE MAP SOURCE: AMEC, 2011.

N

0 100 200
SCALE IN FEET

HALEY ALDRICH

PACIFIC GAS AND ELECTRIC COMPANY (PG&E)
RISK MANAGMENT PLAN - STATION A - NRG AREA
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

STATION A HISTORICAL SOIL AND GROUNDWATER SAMPLE LOCATIONS

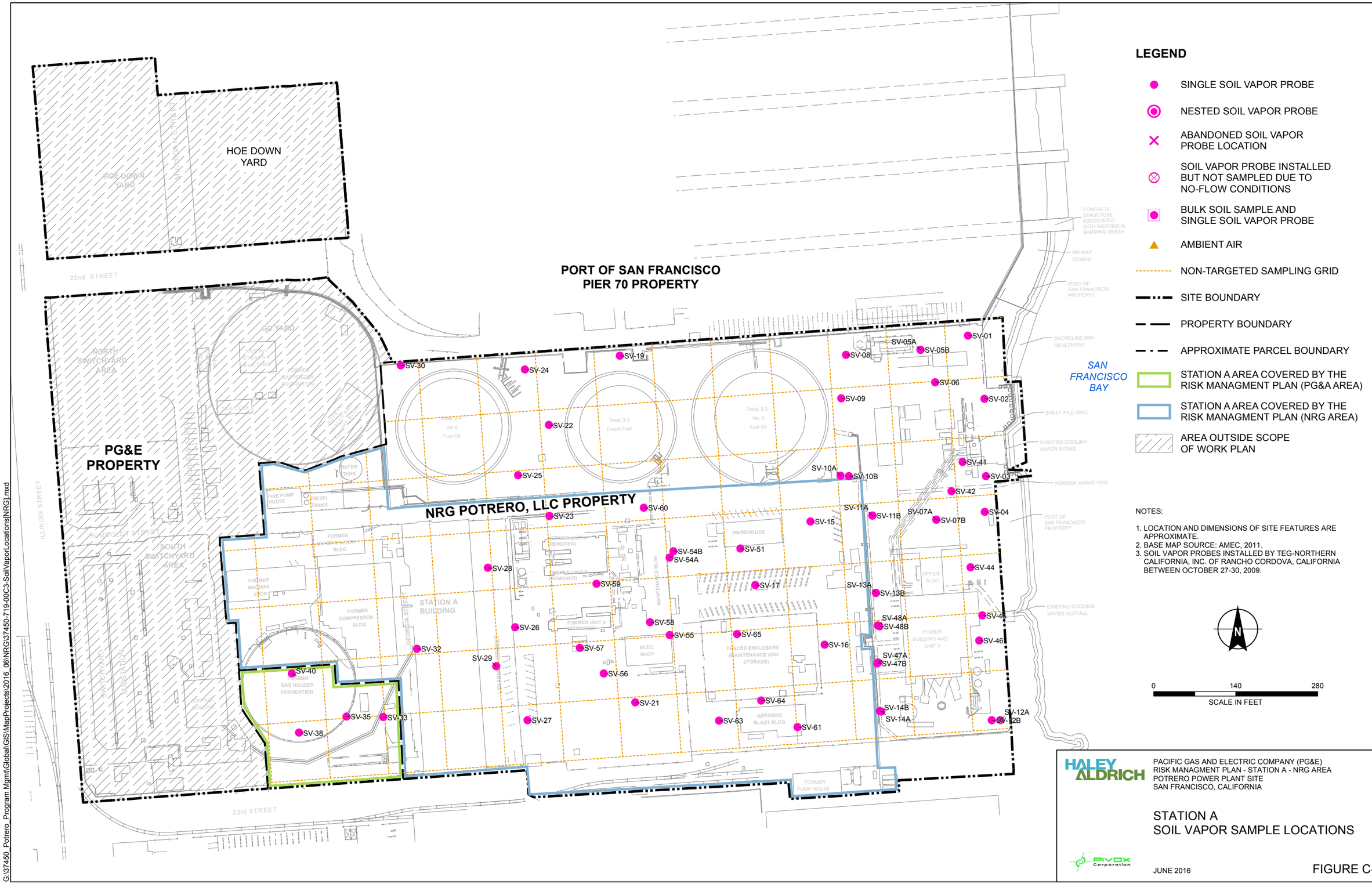
JUNE 2016

FIGURE C-2

PIVOX Corporation

GIS FILE PATH: \\sdg\common\37450_Potrero_Program Mgmt\Global\GIS\MapProjects\2016_06\NRG\37450-719-00C2-HistoricalSampleLocations[NRG].mxd — USER: dfm — LAST SAVED: 6/27/2016 3:44:17 PM

DRAFT



LEGEND

- SINGLE SOIL VAPOR PROBE
- NESTED SOIL VAPOR PROBE
- ABANDONED SOIL VAPOR PROBE LOCATION
- SOIL VAPOR PROBE INSTALLED BUT NOT SAMPLED DUE TO NO-FLOW CONDITIONS
- BULK SOIL SAMPLE AND SINGLE SOIL VAPOR PROBE
- AMBIENT AIR
- NON-TARGETED SAMPLING GRID
- SITE BOUNDARY
- PROPERTY BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- STATION A AREA COVERED BY THE RISK MANAGMENT PLAN (PG&A AREA)
- STATION A AREA COVERED BY THE RISK MANAGMENT PLAN (NRG AREA)
- AREA OUTSIDE SCOPE OF WORK PLAN

NOTES:

1. LOCATION AND DIMENSIONS OF SITE FEATURES ARE APPROXIMATE.
2. BASE MAP SOURCE: AMEC, 2011.
3. SOIL VAPOR PROBES INSTALLED BY TEG-NORTHERN CALIFORNIA, INC. OF RANCHO CORDOVA, CALIFORNIA BETWEEN OCTOBER 27-30, 2009.

N

0 140 280
SCALE IN FEET

HALEY ALDRICH

PACIFIC GAS AND ELECTRIC COMPANY (PG&E)
RISK MANAGMENT PLAN - STATION A - NRG AREA
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

STATION A
SOIL VAPOR SAMPLE LOCATIONS

PIVOX Corporation

JUNE 2016

FIGURE C-3

G:\37450_Potrero_Program Mgmt\Global\GIS\MapProjects\2016_06\NRG\37450-719-00C3-SoilVaporLocations(NRG).mxd

APPENDIX D

Operation and Maintenance Plan

APPENDIX D
OPERATION AND MAINTENANCE PLAN
STATION A NRG AREA
POTRERO POWER PLANT SITE
RISK MANAGEMENT PLAN
SAN FRANCISCO, CALIFORNIA

D1.0 INTRODUCTION AND BACKGROUND

This Operation and Maintenance Plan (O&M Plan) applies to the 12-acre Station A NRG Area of the Potrero Power Plant Site (Site) located at 1201 Illinois Street in San Francisco, California (Figure 1 of the RMP). The Station A NRG Area is located within a portion of the Potrero Power Plant site that is currently owned by NRG Potrero, LLC (NRG).

The RMP describes the risk reduction and/or risk management measures that are appropriate to mitigate potential health risks associated with exposures to residual pollutants collectively referred to as constituents of concern (COCs) in soil, soil vapor, and groundwater beneath the Station A NRG Area. These mitigation measures, which constitute the remedy chosen by the Water Board to address environmental concerns within the Station A NRG Area (i.e., chosen remedy), include the construction and/or maintenance of a durable cover combined with institutional controls to manage potential health risks. This O&M Plan outlines the inspection and maintenance requirements for the durable cover to ensure that it remains in a condition that prevents site user exposure to existing soil[1] and is an essential component of the remedy for the Station A NRG Area.

Existing durable covers within the Station A NRG Area include streets and sidewalks, existing buildings, hardscape, and paved areas. In the event the existing durable cover is altered or compromised, the Owner will prepare durable cover designs for review and approval by the Regional Water Quality Control Board (Water Board). Upon completion, the Owner will submit a Completion Report to document durable cover installation (see Section 4.3 of the RMP). The Completion Reports must also document that required long-term maintenance (O&M) of the durable cover is taking place. This O&M Plan describes the long-term maintenance and monitoring requirements for the durable cover and includes:

- A description of inspection, maintenance, and repair for the durable cover;
- A maintenance schedule;
- Guidance for inspection of signs, drainage features, vegetation, the condition of the durable cover, and shoreline strengthening;
- Repair procedures;

[1] Existing soil refers to soil present at the Station A NRG Area when the remedy was approved, regardless of its provenance. The existing soil in the Station A NRG Area consists mostly of historic fill placed during the evolution and development of Station A, and typically contains COCs at concentrations that pose a potential threat to human health and the environment as described in the RMP.

- Reporting requirements; and
- Emergency response planning and procedures related to O&M of the Site.

A list of the projected inspection items, inspection procedures, generalized repair procedures, and inspection frequency is included as Attachment 1 of this O&M Plan. This attachment will be supplemented or replaced during and after redevelopment based on the actual construction of the remedy (durable covers) and the materials used.

Inspection, maintenance, and monitoring of the durable cover are required and are the responsibility of the Owner. The Owner may impose requirements to inspect, maintain, and repair durable cover on tenants, licensees, permittees, and other entities responsible for construction and/or operation of facilities within the Station A NRG Area, but remains responsible for ensuring compliance and submitting annual monitoring reports to the Water Board. Facility owners or operators that conduct annual self-inspections and certify completion may use the Owner Checklist and Certification found in Attachment 1, and submit it to the Owner.

This O&M Plan applies only to the durable cover. Potential future conditions (e.g., changes in land use, type of construction) may require additional engineering controls. In the event that additional engineering controls are installed, this O&M Plan will be revised accordingly.

D1.1 Regulatory Oversight

As described in the RMP, the Water Board is the designated Administering Agency for the entire Potrero Power Plant Site, including the Station A NRG Area, under California Health and Safety Code section 25260, et seq., meaning that the Water Board supervises all aspects of cleanup and is granted sole jurisdiction over all activities necessary to respond to release of hazardous materials. As such, Water Board staff has the authority to oversee the proper implementation of this O&M Plan. The Water Board works with an advisory team composed of the following State and local agencies on the Potrero Power Plant Site including the Station A NRG Area (i.e., supporting agencies):

- City and County of San Francisco, Department of Public Health (SFDPH); and
- California Department of Fish and Wildlife (CDFW).

Each supporting agency will be informed of activities occurring on the property as provided by this RMP. They are also anticipated to consult with the Water Board on an ongoing basis. Even though Water Board staff may solicit input on portions of the regulatory oversight from other agencies, such as the SFDPH, the decision-making entity of record regarding environmental considerations at the Station A NRG Area is the Water Board.

D2.0 DESCRIPTION OF REMEDY

In summary, the remedy to address COCs at the Station A NRG Area includes institutional and engineering controls that mitigate exposure of human receptors to COCs in the subsurface. Institutional controls include, among other documents, the LUC. Engineering controls include the installation and maintenance of durable covers (i.e., asphalt/concrete pavement), which physically prevent exposure to,

and off-site migration of, the underlying COCs. The remedy does not require any specific treatment or removal of COCs. The following components comprise the remedy.

Institutional controls include the following:

- A Land Use Covenant (LUC) that is binding upon all owners of the Station A NRG Area. The LUC restricts the Station A NRG Area from being used for temporary/permanent residence, motels/hotels, health care facilities, schools for persons under 21 years of age, daycare center for children/senior citizens, park, playground, or other recreational use. Additionally, groundwater at the site cannot be used for domestic purposes (e.g., drinking, cooking, or washing);

- The RMP, which requires compliance with certain procedures if the durable cover is breached; and

- This O&M Plan for the durable cover or any other engineering control requiring maintenance.

Engineering controls, as described in the RMP, include the following:

- Existing soil shall not be reused on the exposed ground surface of the Station A NRG Area; existing soil shall only be reused under a durable cover. Refer to Section 6.5.2 and Figure 4 of the RMP for soil re-use procedures.

- Soil imported to the Station A NRG Area shall be placed on a demarcation layer. The imported soil (i.e., clean soil) must meet the prevailing standards used to evaluate exposures that are consistent with the current/ planned land use (i.e., less than or equal to commercial standards for commercial site use, and less than or equal to residential standards for unrestricted site use). The demarcation layer shall be a brightly colored layer acting as a visual and physical deterrent to further excavation and be an indicator that contaminated/existing soil may be present below the layer, and that special protocols must be followed for excavation below the layer. The demarcation layer is not intended to be impermeable to water. Refer to Section 6.5.2 of the RMP for soil import criteria.

- Soil encountered during excavations that is determined to be a “Restricted Material” (i.e., restricted from on-site reuse due to the presence of obvious contamination) shall be disposed off-site and shall not be reused on site unless a written variance is obtained by the Water Board (see Section 3.6). A more comprehensive discussion of what is considered Restricted Material, and how it is managed, is provided in Section 6.5.2.2 and Figure 4 of the RMP.

- Dust and groundwater management measures shall be implemented to minimize potential exposures to COCs for workers, site users, and the public.

- Installation of durable covers over existing soil to provide a physical barrier against exposure to existing soil. Acceptable durable covers include:

  - New or existing building foundations.

  - New or existing streets and sidewalks.

- New or existing hardscapes that are engineered so that they will not be unduly compromised as part of their intended use.

- New landscaping or soft-scape placed upon a minimum of 4 feet of clean import soil over a demarcation layer. The clean soil layer must accommodate the depth of root bearing zones and/or irrigation systems to assure that general maintenance workers will not contact any of the existing soil below the demarcation layer.

- Paving consisting of at least 4 inches of crushed aggregate overlain by at least a 2- inch-thick layer of asphaltic concrete.

Long-term monitoring, maintenance, and repair of the durable covers is required. These O&M procedures for durable covers are described in this O&M Plan.

D3.0 INSPECTION, MAINTENANCE, AND REPAIR

This section describes the O&M personnel responsible for inspecting site conditions, the inspection maintenance, and the repair tasks associated with site security measures and durable covers.

D3.1 O&M Personnel

The Owner will retain qualified personnel and contractors to perform O&M at the Station A NRG Area to provide adequate long-term support for the remedy. O&M activities and associated qualifications may change as part of redevelopment of the Station A NRG Area and the O&M plan is revised for specific site conditions as they change over time.

D3.2 Inspection of Site Conditions

The Owner or its designated representative will inspect general conditions throughout the Station A NRG Area. However, the Owner or its designated representative may be required or choose to conduct annual and/or additional site inspections for unforeseen emergencies as described in RMP Section 4.0. Inspections must identify any changes in land use, grading, excavation, new construction, damage to durable cover, or other conditions that could result in unacceptable exposure to existing soil. Inspections will include site access points and integrity of site access controls and signage. Any issues of concern (i.e., evidence of unauthorized digging, evidence that site security is compromised, damage to durable cover that results in exposure to existing soil) must be reported to the Water Board and remedied as soon as practicable but no later than 2 weeks after the Owner becomes aware of the breach. Repairs to the durable cover should be consistent with and functionally equivalent to the original installation design drawings.

D3.3 Inspection, Maintenance, and Repair of Site Security Measures

The site security measures are intended to protect the public from physical and chemical hazards that exist at the Site. In order to minimize potential contact with exposed existing soil greater than 100 sf, barriers, fencing and signs will be installed and maintained to restrict access or covered with a temporary cover, such as “cold” asphalt patch or gravel.

Where durable cover is in place, signage and fencing are required only when and where activities include disturbance of more than 100 sf of durable cover. If any existing soil is exposed, the Guidelines for Dust Monitoring should be followed (Appendix F of the RMP). While it is understood that soil disturbance and excavation activities will produce dust, dust controls will be used to mitigate visible dust as it occurs.

Signs will be used to warn against unauthorized access to the Site and provide emergency contact information. The project proponent will replace signs as necessary to ensure legibility.

D3.4 Inspection, Maintenance, and Repair of Durable Covers

This section describes the procedures for inspection, maintenance, and repair for the durable covers, which include the existing asphalt and concrete pavement, soil cover, and building foundations. In general, any deficiencies that reduce the protectiveness of the cover to human health and the environment will be corrected. In some cases, damaged areas may need to be secured to prevent access by the public while repairs are planned and implemented. The Owner or its designated representative will evaluate the need for and type of security appropriate in relation to the repair needed.

Recording the inspection through forms, note taking, and photographs is a necessary part of the inspection. An Inspection logbook will be maintained and include field notes and photographs recorded during inspections. The list of inspection items, procedures, and frequency is included as Attachment 1 to this O&M Plan and will be modified as necessary after construction, during the course of redevelopment, and during O&M.

The Owner or its designated representative will inspect general conditions throughout the Station A NRG Area annually, and will inspect asphalt pavement cover and building foundations after earthquakes for settling, cracking, or other breaches. Refer to Attachment 1 for inspection tasks, triggers, and procedures.

D3.4.1 Asphalt Pavement Cover and Building Foundations

Existing pavement, primarily asphalt, and building foundations minimize contact with and release of the COCs in soil at the Station A NRG Area.

Maintenance, repair, or replacement of the asphalt pavement or building foundations is required when damage that reduces the effectiveness of the remedy is observed. During the required annual inspections and after significant seismic events asphalt pavement will be inspected for signs of stress, which may include excessive cracking and settlement. Cracking of these covers is expected over time and is not necessarily an immediate concern, but should be repaired when underlying soil becomes exposed or accessible or when expansion of cracks is observed. Settlement and subsidence are not an immediate concern but should be monitored over time and repaired if water accumulation is or becomes persistent.

Items to note during inspection of the asphalt pavement and building foundations include:

- Pavement condition (depressions and excessive cracking);
- Cracks in the building foundation;

- Crawl space access is blocked off (where applicable);
- Wear and tear due to excessive vehicle or pedestrian traffic;
- Settlement and subsidence;
- Surface water accumulation indicative of inadequate drainage; and
- Vandalism and unauthorized access to Site or buildings.

Vegetation should not be present over the asphalt pavement portion of the Site. Vegetation should be removed when present and cover should be repaired to prevent future growth.

Building foundations should be inspected for cracking or signs of stress from outside of the buildings. Building interiors should be inspected when exterior cracking or evidence of unauthorized access is observed. Buildings themselves do not require maintenance because they are not considered part of the durable cover. Access points to sub-slab or subfloor crawl spaces should be inspected for integrity and evidence of vandalism or tampering.

Deficiencies, damage, settlement, or failure of the asphalt pavement and the building foundations will be repaired when underlying soil is exposed or accessible. Temporary repairs will be made, if necessary, until permanent repairs can be scheduled.

D3.4.2 Vegetated Soil Cover

The soil cover specified by the RMP is designed to minimize contact with contaminants in existing soil at the Site. The specified cover consists of a minimum 4-foot-thick clean soil layer over a demarcation layer in landscaped portions of the Station A NRG Area. The clean soil layer must accommodate the depth of root bearing zones and/or irrigation systems to assure that general maintenance workers will not contact any of the existing soil below the demarcation layer. Applicable O&M-related documentation for the components of the soil cover is included in Attachment 1 of this O&M plan and will be updated after construction of soil covered or landscaped areas.

Items to note during inspection of the vegetated soil cover include:

- Evidence of erosion, potentially including exposed demarcation layer;
- Visible depressions;
- Proper surface water drainage;
- Cracks;
- Settlement and subsidence;
- Slope failure;

- Vandalism;
- Evidence of burrowing pests;
- Vegetation stress; and
- Bare spots.

D4.0 REPORTING

An annual inspection report will be prepared to summarize the inspections for each year (see RMP Section 4.4); this report will be forwarded for review and approval by the regulatory agencies. The annual inspection report will include, at a minimum, the results of the inspections and a summary of all repair and maintenance activities conducted. The annual inspection report will be certified by the Owner or their designated representative.

The Owner is ultimately responsible for the annual inspection and reporting requirements, and incident reporting that is outside of the annual inspection process (see Section 4.4 in the RMP). In the event that there are multiple Owners of the Station A NRG Area, all of the Owners shall cooperate and work together to provide the Water Board with a single submittal that meets the annual inspection and reporting requirements, but each Owner remains responsible for compliance with all aspects of the RMP for their respective portions of the Station A NRG Area. The Owner shall work with the Project Proponents, building owner/operators, and/or regulatory agencies to correct any problem(s) discovered and cooperate with the agencies during the performance of their inspection and enforcement responsibilities.

Additional reporting may be necessary following significant repairs to components of the remedy, such as repairs conducted under an agency-approved work plan[2], or after inspection triggered by an earthquake or other natural event. General maintenance tasks, such as filling potholes, sealing pavement, repair of fencing or signage, and replacing damaged drainage features would not require the submittal of a work plan and agency approval.

The Owner shall provide a copy of the O&M Plan to lessees, permittees, tenants, contractors, future transferees or any other party with the legal right to perform subsurface work on the Station A NRG Area.

D4.1 O&M Plan Revisions

[2] Work that disturbs a 1250 sf or larger area requires advance notification to the Water Board. Work that does not comply with the RMP requires a Water Board approved work plan. Work that disturbs more than 50 cy of soil may require work plans and site mitigation plans in accordance with the City of San Francisco's Article 22A (Maher) Ordinance.

As redevelopment proceeds, changes to the O&M Plan may be needed to address changes in land use, design, construction materials and methods, or other conditions. This O&M Plan may therefore change as durable cover construction is completed in various portions of the Station A NRG Area. The Owner will revise the O&M Plan as needed to reflect as-built conditions, or when experience shows a deficiency in the identification, frequency, or adequacy of repair needs over time. The Owner or project proponents will develop and submit proposed revisions to the Water Board, and other applicable agencies, for review and approval.

D5.0 EMERGENCY RESPONSE PLAN

Some emergencies can affect the integrity or effectiveness of the durable cover, fencing and signage, or other features of the remedy. Although the Owner and future lessees will take action to reduce the potential for emergencies, it is possible for events to occur at the Site that cannot be prevented. This plan provides response procedures for the following occurrences that threaten the effectiveness of the durable cover:

- Vandalism
- Fires
- Earthquake
- Floods
- Surface drainage problems
- Release of potentially contaminated materials (soil, soil gas, or water)

Attachment 2 provides recommended responses for the above emergencies. This plan is intended to address contingencies that are reasonably foreseeable, but will be amended if the need for additional contingency measures is identified.

Attachment 1
Inspection Checklist
Station A NRG Area
Potrero Power Plant Site
Operation and Maintenance Plan

Date and time of inspection:	**Inspector name and organization:**
Weather and tidal conditions – include details of most recent rain event:	
Response for inspection (circle one): Scheduled Emergency response	**If inspection is initiated by an emergency response, explain condition:**

General Site Condition (Applies to all Areas of Station A NRG Area)

Item	Inspection Frequency	Action/Inspection Item	Comments – Including Explanation if not Completed. Include any Photo Descriptions
Overall condition of Site	Every inspection	Note general conditions. Trash and debris accumulation, unauthorized access, etc.	
Land use	Every inspection	Digging or unauthorized land use per Land Use Control	
Security of Area	Every inspection	Assess condition of fence, including holes, corrosion, digging, and concrete condition – repair as necessary	
		Condition of locks, fencing, and gates – repair and replace as necessary	
		Note signs of vandalism	
		Note evidence of unauthorized access to areas of exposed existing soil.	

Attachment 1
Inspection Checklist
Station A NRG Area
Potrero Power Plant Site
Operation and Maintenance Plan

General Site Condition (Applies to all Areas of Station A NRG Area)			
Item	**Inspection Frequency**	**Action/Inspection Item**	**Comments – Including Explanation if not Completed. Include any Photo Descriptions**
		All signs in place and secure – repair and replace as necessary	
Site signage	Every inspection	All signs in place and secure – repair and replace as necessary	
		Wording legible – replace and repair as necessary or document degradation	
		Note signs of vandalism	
Surface Inspection	Every inspection	Access cracking in asphaltic concrete layer and inspect transition between cover and utility features such as manholes and utility boxes	
		Assess cracking in foundations	
		Assess the crawl space access to maintain the prevention of unauthorized access	
		Evidence of settlement and subsidence	
		Note evidence of burrowing pests	
		Assess accumulation of soils over cover	
		Inspect areas of previous repair	
		Remove vegetation, repair asphalt	
		Note signs of unauthorized access to the Site or the buildings	

Attachment 1
Inspection Checklist
Station A NRG Area
Potrero Power Plant Site
Operation and Maintenance Plan

Storm water drainage	Every inspection	Observe areas of accumulated water for cracking and settlement	
		Remove trash and debris from catch basins	
		Monitor areas of accumulation in the vicinity of Site buildings	

Attachment 1
Inspection Checklist
Station A NRG Area
Potrero Power Plant Site
Operation and Maintenance Plan

General Site Condition (Applies to all Areas of Station A NRG Area)			
Item	**Inspection Frequency**	**Action/Inspection Item**	**Comments – Including Explanation if not Completed. Include any Photo Descriptions**
		Note evidence of overflow in drainage channels	
		Remove trash or debris from drainage channels	
		Note any change in condition of drainage contributing areas	
Soil Cover			
Vegetation	Every inspection	Assessment of unhealthy/bare areas, degradation of durable cover, or exposed demarcation layer	
		Note evidence of burrowing pests	
		Note signs of unauthorized access	
Soil cover	Every inspection	Note evidence of cover settlement	
		Evidence of slope failure along boundaries and slope transition areas	
		Evidence of cracking or soil movement	

Attachment 1
Inspection Checklist
Station A NRG Area
Potrero Power Plant Site
Operation and Maintenance Plan

Other Observations:

Attachment 1
Inspection Checklist
Station A NRG Area
Potrero Power Plant Site
Operation and Maintenance Plan

Follow-Up Actions (Include area requiring further action):	
Signature:	**Date:**

ADDENDUM - 06/16/16

ANNUAL RISK MANAGEMENT PLAN (RMP) OWNER INSPECTION REPORT

Station A NRG Area

Potrero Power Plant Site

Operation and Maintenance Plan

San Francisco, California

Property Owner/ Site Operator/Owner's Designated Representative: _____

Address: _____

Site Contact: _____

1. Have any of the following activities been conducted within the past year? (Check all that apply.)

   ☐ Excavation of soil;

   ☐ Construction of roads, utilities, facilities, structures, and appurtenances of any kind;

   ☐ Demolition or removal of hardscape (e.g., concrete or asphalt roadways, parking lots, foundations, and sidewalks);

   ☐ Any maintenance activities that may have disturbed the final soil cover except for the upper 2 feet of landscaped areas where clean fill has been placed; or

   ☐ Grading or other movement of soil.

   Describe all pertinent activities related to each checked above.

   _____

   _____

   _____

   Have any of the following ground-disturbing activities been conducted in the past year that required Water Board approval?

   ☐ Land disturbance activities which include but are not limited to those listed above, and any other activity that causes or facilitates the movement of known contaminated groundwater;

☐ Alteration, disturbance, or removal of any component of a response or cleanup action (including but not limited to shoreline protection and durable cover), groundwater extraction, injection, and monitoring wells and associated piping and equipment, or associated utilities;

☐ Extraction of groundwater and installation of new groundwater wells; or

☐ Removal of or damage to security features (e.g., locks on monitoring wells, survey monuments, fencing, signs, or monitoring equipment and associated pipelines and appurtenances).

Describe all pertinent activities related to each activity checked above.

2. For activities conducted in the past year describe durable cover remedy completion. Attach remedy completion report as required by the RMP (Section 4.3) or refer to previously submitted documentation. Remedy completion report to include activity description, notification protocol description, reference to Work Plan for restricted activity, boring/well logs if completed, analytical laboratory reports if applicable, waste disposal manifests, and description of final site conditions including as-built construction drawings.

   a. Is a modification of durable cover required due to the activity?

      ☐ Yes ☐ No

      If Yes, describe proposed modification and attach a Work Plan, revised operations and maintenance protocol, a revised monitoring program, and an implementation schedule.

3. Are there any proposed activities for the coming year? ☐ Yes ☐ No

   If Yes, please describe activity and attach Work Plan as required:

SOIL MANAGEMENT

   a. Has an environmental health and safety plan (EHSP) been prepared for the ground-disturbing activity? ☐ Yes ☐ No

b. Indicate any unexpected conditions that were encountered.

☐ Soil Contamination

☐ Groundwater Contamination

☐ Naturally Occurring Asbestos (NOA)

☐ Subsurface Structures (Underground Storage Tanks, sumps, other)

☐ Buried Pipelines

☐ Olfactory or Visual Evidence of Contamination

☐ Other: _____

c. Were corrective actions or notifications conducted in response to unexpected conditions?

☐ Yes ☐ No

Describe: _____

_____

_____

d. Was any soil generated as part of the activity? ☐ Yes ☐ No

_____

_____

If soil was generated describe below:

☐ Profiling. Describe sampling methods and attach analytical laboratory data:

_____

_____

☐ Reuse. Specify method and location of final disposition of soil:

_____

_____

☐ Off-site disposal. Describe the disposal facility:

e. Was soil imported to the site ? ☐ Yes ☐ No

If Yes, describe sampling and quality controls and compliance with the Soil Importation Plan (SIP) or refer to previously submitted documentation:

Has a Stormwater Pollution Prevention Plan (SWPPP) been implemented for construction activity that triggers construction stormwater permit requirements? ☐ Yes ☐ No

Describe runoff testing, best management practices implemented as part of the SWPPP or refer to previously submitted documentation:

GROUNDWATER MANAGEMENT

a. Were dewatering activities conducted as part of the activity? ☐ Yes ☐ No

b. If Yes:

i. How much water was extracted and what were the methods?

ii. What were the storage vessels for extracted groundwater?

iii. Describe profiling and disposal procedures:

iv. Was water disposed to the sewer system? ☐ Yes ☐ No

If Yes, was an NPDES permit obtained? ☐ Yes ☐ No

If Yes, please attach all compliance documentation.

c. As part of the activity, were any groundwater monitoring wells destroyed, repaired, or installed? ☐Yes ☐No

d. If Yes, please describe including notifications and regulatory approval and attach report including well locations, identification of driller and drilling procedures, decontamination procedures, lithologic logs, wells development procedures, survey data, any sampling data if collected, and investigation-derived waste disposal.

OWNER ANNUAL INSPECTION REPORT CERTIFICATION

Station A NRG Area

Potrero Power Plant Site

Operation and Maintenance Plan

San Francisco, California

Property Owner: _____

Address: _____

Site Contact: _____

I certify that this document and all attachments presented in this report are accurate and complete. This report was prepared by the staff of **PROPERTY OWNER or OWNER DESIGNATED REPRESENTATIVE** under my supervision to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person(s) who are directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

_____ _____

Signature Date

ADDENDUM - 06/16/16

Attachment 2
Emergency Response Plan
Station A NRG Area – Potrero Power Plant Site
Risk Management Plan – Operation and Maintenance Plan

Occurrence	Threat Posed	Response
Vandalism (that results in exposure of soil)	Monitoring systems rendered inoperative Site security compromised Health or safety hazards, or both Damage to durable cover Exposure to existing soil	1. Immediately conduct visual inspection of vandalism to assess damage and potential impacts 2. In the event of a safety hazard, immediately cordon off the affected area. 3. Notify in accordance with Appendix D of the RMP. 4. For damage to durable cover that results in unacceptable exposure to existing soil, arrange immediate temporary repairs (if necessary) and arrange repair or restoration within 2 weeks (weather conditions permitting) to design conditions and in accordance with repair specifications. 5. Recommended preventative measures.
Fire	Health and safety hazards Damage to monitoring systems Damage to vegetation Impacts to erosion and drainage	1. Notify City of San Francisco Fire Department (call 911), notify in accordance with Appendix D when safe to do so. 2. Immediately conduct visual inspection of area to assess damage and potential impact. 3. Immediately cordon off affected area. 4. For damage or potential damage to other components that affect integrity of the durable cover, security, or safety, arrange immediate temporary repairs (if necessary) and arrange repair or restoration within 2 weeks (weather and conditions permitting) to design conditions and in accordance with repair specifications. 5. Notify regulatory agencies in accordance with Appendix D of the RMP.

Attachment 2
Emergency Response Plan
Station A NRG Area – Potrero Power Plant Site
Risk Management Plan – Operation and Maintenance Plan

Occurrence	Threat Posed	Response
Earthquake[a]	Health and safety hazards Damage to monitoring systems Slope failure Damage to durable cover and/or shoreline improvements from differential settlement, translocation, or cracking Exposure of existing soil Release of sediment	1. Immediately conduct visual inspection of area to assess damage and potential impact. 2. In the event of safety hazards, immediately cordon off area. 3. Inspect Site building foundations for damages, such cracking, and repairs as necessary to restore to previous conditions. 4. In the event of damage to monitoring systems, contact maintenance contractor to facilitate repairs. 5. Resurvey the area and increase the frequency of inspection and maintenance of final cover and final grading to quarterly for period of 1 year. 6. In event of apparent slope failure, surface cracking, or similar damage, contact the contracted geotechnical consultant, as appropriate, to participate in an evaluation of problem areas within 10 days of notice. If necessary, perform a geotechnical investigation of failure to develop a corrective action plan. 7. For damage or potential damage to other components that affect integrity of the durable cover, site security or safety, arrange immediate temporary repairs (if necessary) and arrange repair or restoration within 2 weeks (weather and conditions permitting) to design conditions in accordance with repair specifications. Notify regulatory agencies in accordance with Appendix D of the RMP **Recommended Equipment:** erosion control blankets or media, bulldozer, loader, compactor, sand, clean fill, cordon tape, cover materials, patching and sealing materials, and paving equipment.

Attachment 2
Emergency Response Plan
Station A NRG Area – Potrero Power Plant Site
Risk Management Plan – Operation and Maintenance Plan

Occurrence	Threat Posed	Response
Flooding and Surface Drainage Problems	Damage to cover or its components Saturation of soil slopes and instability Erosion and undercutting of foundations, cover, and utilities	1. Immediately conduct visual inspection of area to assess damage and potential impact. 2. In the event of safety hazard, immediately cordon off the affected area. 3. If necessary, conduct a geotechnical investigation of failure in order to develop a corrective action plan. 4. For damage or potential damage to components that affect Site integrity, security, or safety, arrange repair or restoration within 2 weeks (weather and conditions permitting) to design conditions and in accordance with repair specifications. 5. Investigate preventative measures. 6. Notify in accordance with Appendix D of the RMP. **Recommended Equipment:** portable berm, absorbency media or blankets, loader/backhoe, clean fill soil, high-solids-passing explosion-proof portable pump, Baker tank or waste receptacles, cordon tape, sandbags, cover materials, patching and sealing materials, and paving equipment.
Release of potentially contaminated soils	Health and safety hazards Potential environmental impacts	1. Immediately conduct visual inspection of area to assess damage and potential impacts. 2. In the event of safety hazards, immediately cordon off area. 3. Notify Owner. 4. Identify the discharged material, if possible. If hazardous or toxic, contact a licensed company that handles hazardous or toxic waste disposal to remove the waste. 5. Use necessary heavy equipment to restore area. 6. Notify regulatory agencies in accordance with Sections 5 through 7 of the RMP. 7. Repair cause of release. **Recommended Equipment:** portable berm, absorbency media or blankets, loader/backhoe, clean fill soil, high-solids-passing explosion-proof portable pump, Baker tank or waste receptacles, cordon tape, sandbags, cover materials, patching and sealing materials, and paving equipment.

Notes:

a The Owner or its designated representative will determine the appropriate trigger for inspection and emergency response in consultation with other agencies.

APPENDIX E

Notification Template for Ground Disturbing Activities

NOTICE OF INTENT TO CONDUCT GROUND DISTURBING ACTIVITIES
STATION A NRG AREA RISK MANAGEMENT PLAN
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

This Notice of Intent to Conduct Ground Disturbing Activities is being submitted to the San Francisco Regional Water Quality Control Board (Water Board) in partial compliance with the Risk Management Plan, Station A NRG Area, Potrero Power Plant, 1201 Illinois Street, San Francisco, California. This notification is to be submitted to the Water Board 3 day prior to commencing work.

Submit to: Mark Johnson at Mark.Johnson@waterboards.ca.gov and fax to (510) 622-2460

Contacts			
Owner:	Ph: Cell:	Address:	
General Contractor:	Ph: Cell:	Address:	
Field Superintendent	Ph: Cell:	Address:	

Description of Work			
Location of work:			
Description of ground disturbing activity:			
Type of cover to be disturbed:			
Area of Cover to be disturbed:			
Volume of soil to be excavated:			
Volume of soil for reuse:		Location of reuse:	
Volume of soil for off-haul:		Disposal site:	
Are groundwater management activities required? (if yes describe below)			
Are permits/notifications to other agencies required? (if yes describe below)			

Site Restoration Plan			
Volume of Soil for backfill:		Backfill source[1]:	
Type of cover to be restored:			
Area of cover to be restored:			
Schedule:	Start Date: Duration: End Date:		

As the Owner, or Owners Representative, I _____ (name) certify that the work described in this notification will be done in accordance with the (date) Risk Management Plan for the Station A Area of the former Potrero Power Plant.

[1] Analytical data for import material to be provide to the Water Board prior to placement.

ADDENDUM - 06/16/16

Distribution: Mr. Mark Johnson, Water Board (Mark.Johnson@waterboards.ca.gov)
(Owner)
(General Contractor)

APPENDIX F

Guidelines for Dust Monitoring

APPENDIX F
GUIDELINES FOR DUST MONITORING
STATION A NRG AREA
POTRERO POWER PLANT SITE
RISK MANAGEMENT PLAN
SAN FRANCISCO, CALIFORNIA

These guidelines for dust monitoring have been developed for the Station A NRG Area. Prior to commencement of any subsurface site work and/or construction activities, the Owner, or their designated Contractor, should review these guidelines and evaluate the need for task-specific dust monitoring for their workers. This evaluation may include performing a Negative Exposure Assessment, as per 29 CFR 1926.1101 and Title 8 CCR 1529, where activities will disturb materials containing asbestos, including NOA. The preparation of a task-specific dust monitoring plan (if deemed necessary by the Owner/Contractor), and the compliance with that plan are ultimately the responsibility of the Owner.

The Contractor's dust monitoring plan, if required, shall be under the review and direction of a Certified Industrial Hygienist (CIH) for the duration of the project. The dust monitoring plan shall include an exposure assessment that includes statistically objective data of human and environmental exposure to airborne fibers of asbestos or metals through the analysis of baseline, process, and personal air monitoring. All air samples shall be taken using an 0.8-micron mixed cellulose ester (MCE) filter mounted in a 25-mm open-face filter holder. Personal and work area air sampling shall be conducted at a flow rate between 0.5 and 2.4 liters per minute. A flow rate of 2.0 liters per minute is generally used. Air samples taken on the exterior of the work area for evaluation of potential exposures to site users or the public may have air flow rates up to approximately 15 liters per minute depending upon the anticipated fiber/dust loading in the area sampled.

All personnel and area air sampling shall include:

- Recording the starting and stopping of the pumps;
- Setting and recording air flow rates, using a calibrated rotameter, at the beginning and at the end of the sampling period;
- Inspection of cassettes every two hours for overloading;
- Ensuring that all record-keeping for the sampling process is accurate and complete; and
- Calibration of rotameters (a secondary standard) using a primary standard at a minimum of every six months. Calibration records shall be maintained on site.

At the end of each day during which monitoring is conducted, all air monitoring cassettes will be delivered to a certified and approved laboratory for either transmission electron microscopy (TEM) analysis or GC/MS analysis. The analytical sensitivity for TEM analysis should be 0.001 structures per cubic centimeters and all asbestos structures with an aspect ratio greater than 3 to 1 shall be counted irrespective of length.

Two types of sampling forms may be used in terms of cassette distribution:

- Full-period, Continuous Single Sampling Form; and
- Full-period, Consecutive Sampling Form.

The former strategy uses one cassette throughout the sampling period, while the second form uses multiple cassettes consecutively in conducting the sampling. The latter strategy shall be used when the CIH determines that the cassette may become overloaded in work areas where dust and particulate matter may be found in high concentrations.

F1.0 INITIAL BASELINE OR BACKGROUND SAMPLING

If conducted, these air monitoring and resultant exposure assessment determinations shall be conducted prior to the beginning of work site preparation. The assessment will be used to justify and verify proposed compliance measures for a particular regulated area. The proposed work plan shall be flexible enough to adjust to such assessment demands.

F2.0 PERIODIC EXPOSURE MONITORING

An Industrial Hygienist (IH), or a technician under the supervision of the CIH, shall conduct eight-hour time-weighted average (TWA) and 30-minute short term exposure limits (STEL) exposure monitoring in the breathing zone of the employees, which shall be representative of employees' exposure to airborne fibers and or dust concentrations in a particular work area. Personal sampling pumps should run continuously for the duration of the sampling period and should be stopped during lunch, rest breaks, and any other periods where employees must leave the work area. When it is time for a sampling pump to be turned off, the IH/technician will check the air flow with a calibrated rotameter, mark the time when the sampling was terminated, and assist the employee in removing the pump assembly from his/her waist.

The following exposure monitoring information will be recorded on each air sampling form:

- Test number and sampling pump number;
- Name of person conducting test;
- Name of person tested and the activity of the worker being sampled;
- Identification or employee number of the person monitored;
- Date, location, and time (pump time on and off);
- Ambient conditions, such as temperature, approximate humidity, and presence of wind/ventilation during the test; and
- Rotameter reading and pump rate, and volume of air collected (calculated based on rate).

The IH/technician shall follow the procedures below when performing 8-hour TWA personal air monitoring:

- Turn the personal air monitoring pump on and secure the pump mechanism around workers waist. Secure the cassette in the breathing zone (e.g., workers lapel or collar).
- Record air-flow with a calibrated rotameter and note the time when sampling was started.
- Periodically inspect the cassette's filter for overloading.
- At break times, mark time off/on.
- At lunch, record air-flow and the time during which sampling was discontinued.
- At the end of the shift, record air-flow with a calibrated rotameter, mark the time when sampling was stopped, and remove the pump assembly from the employee.
- Decontaminate personal pumps using wet-cleaning techniques.

Thirty-minute STEL personal air monitoring will be conducted daily to represent on-site ceiling concentration to airborne fibers for all employees. Sampling shall be performed for thirty minutes during a work procedure or process that could most likely exceed the permissible exposure level (PEL).

F3.0 AREA EXPOSURE MONITORING

Representative 8-hour area exposure monitoring shall be conducted under the direction of a CIH on a daily basis to determine environmental personnel exposures outside the regulated area. The pumps, tripod stands, and cassettes shall be set up at convenient locations along the perimeter of the construction site and away from contact with equipment or traffic. All of the standard operating procedures pertaining to air monitoring techniques shall apply for area exposure monitoring.

F4.0 TERMINATION OF EXPOSURE MONITORING

The assessment criteria used to justify the termination of exposure monitoring shall include the following:

- Objective data showing that the activity involved in the disturbance or removal of the soil will produce exposures below the respective PEL (0.1 fibers/cubic centimeter for asbestos) under conditions having the greatest potential for releasing asbestos or dust.
- Evidence that the work to be conducted closely resembles a previous job performed within the last twelve months (i.e., work was conducted in compliance with these guidelines and is similar in environment with respect to types of materials worked on, kinds of engineering controls used, standard working procedures followed, and experience of employees).
- The results of initial breathing-zone exposure monitoring for the current job, from air samples that are representative of the 8-hour TWA and 30-minute short-term exposures of each employee, and covering operations which are most likely during the performance of the entire job, indicate exposures below the PEL for asbestos.

Potrero Power Station Redevelopment

LOW PRESSURE WATER SYSTEM MASTER PLAN

Prepared by:

COLEMAN
ENGINEERING

Project #: CBAG17-005

June 5, 2018

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1 Introduction and Project Description

1.1 Project Overview

The proposed Potrero Power Station Redevelopment site is an approximately 29-acre area bounded by Illinois Street to the west, 22nd Street to the north, San Francisco Bay to the east, and 23rd Street to the south. The project site is south of Mission Bay South, east of the Potrero Hill and Dogpatch neighborhoods, and within the eastern portion of San Francisco's Central Waterfront Plan Area. See Figure 1 for the project location.

The majority of the project site is located within the former Potrero Power Station (Power Station). The other portions of the site are owned by PG&E and the City and County of San Francisco through the Port of San Francisco (Port). The majority of the site is currently owned by Associate Capital.

The development area consists of a 28.6-acre site. The Power Station is the largest portion of the site, which includes an area of 21 acres. The Port contains an area of 2.8 acres. The PG&E portion of the site is split into two sections, the Northern Switchyards and the Southern Switchyards. The Northern Switchyard is 4.8 acres in size and will be redeveloped as part of the project. The Southern Switchyard will remain in place and continue to be owned and operated by PG&E. Figure 2 shows the Project Site described above and Figure 3 shows the proposed project boundary.

The proposed redevelopment of the site will be a majority residential, mixed-use and mixed-income neighborhood delivering approximately 2,600 homes; 600,000-square feet of office; 600,000-square feet of Research & Development; 100,000-square feet of retail; and ample community amenities. The project contains 6.3 acres public open space, a boutique hotel, restaurants, cafes, shops, and stores. The site will be approximately split into 62% housing, 30% commercial, and 8% hotel and retail.

Land uses summarized above are taken from a report prepared by Carlson, Barbee & Gibson that is included in Appendix B. Figure 4 shows the Proposed Site Layout and Land Uses.

1.2 Existing Conditions

The largest part of the project site currently contains the former Potrero Power Station, which is now mostly unused industrial land. There are many old, unused buildings and various components of a general power station. The Power Station contains warehouses, parking lots, and buildings with little to no vegetation on the site. The Power Station has been on the path to decommission since 1979 and the site is in the process of remediation and cleanup.

The project site has varying topography, sloping down toward the San Francisco Bay. The site slopes from west to east and has an elevation drop of between 11-to 16-feet from Illinois Street until just before the San Francisco Bay. At the east edge of the project site it slopes steeply about 10-to 13-feet to sea level.

1.3 Proposed Conditions

The Proposed Project would amend the Planning Code to include the Potrero Power Station Redevelopment and would amend the Zoning Maps to reflect the new site. Under the proposed site, zoning would allow designated parcels to be developed for the planned residential and commercial office uses as is common in many areas of San Francisco. Part of the site will also be redeveloped as residential and district parking.

For the purposes of the Master Plan, the proposed project is being analyzed as a single scenario, which is the Maximum Residential Scenario. The Maximum Residential Scenario produces the highest demands out of three potential scenarios. The other two scenarios for the project site include the Target Program Scenario and the Maximum Commercial Scenario. Appendix E contains the demand calculations for the Maximum Residential Scenario

Maximum Residential Scenario

Development under the Maximum Residential Scenario on the site includes a total of 3,014 residential units, office space, labs, retail, and production, distribution, and repair industries (PDR).

Total Uses

The land uses included in the proposed model are summarized in Table 1.1 – Land Use Summary for Maximum Residential Scenario Low Pressure Water Model. See Appendix D to see the break out by block and land use.

Table 1.1 - Land Use Summary for Maximum Residential Scenario Low Pressure Water Model

Non-Residential Uses							Residential Uses
Office (gsf)	**Lab (gsf)**	**Retail (gsf)**	**PDR (gsf)**	**Community Facilities (gsf)**	**Hotel (gsf)**	**Assembly Space (gsf)**	**Residential (gsf)**
421,952	645,738	107,439	45,040	100,938	0	25,000	3,014,376

2 Low Pressure Water System Planning

2.1 Low Pressure Water System Master Plan Overview

This Potrero Power Station Low Pressure Water System Master Plan (LPWMP) presents the low pressure water system design. The design of the low pressure water system is based on the design criteria as shown in Tables 2.1 and 2.2 below. Detailed design of the low pressure water system infrastructure consistent with the LPWMP will be determined in subdivision processing, including the review and approval of subdivision improvement plans.

The low pressure water system will serve the potable water demands and the fire flow demands for the development. Non-potable or supplemental fire water systems are to be included on the site and will be planned using separate master plans.

2.2 Low Pressure Water System Design Criteria

The design criteria used for the development of the low pressure water model is based upon established industry operations standards and regulatory agency requirements. The design criteria for the Potrero Power Station Redevelopment is consistent with other recent developments within the City of San Francisco, including the TI/YBI Redevelopment and the Pier 70 SUD Redevelopment.

The low pressure water system will be designed and constructed in accordance to the City Distribution Division Standard Plans and Specifications and to applicable City, State, and Federal codes and standards unless otherwise permitted.

The design criteria are dependent on the demand scenario. Table 2.1 presents the low pressure water system demand and peaking factors for the demand scenario.

To be conservative for this system planning, and to allow for the possibility of land use changes in the future, the model assumes fire flow to be 2,000 gpm, while the fire code only requires 1,500 gpm.

Table 2.1 – Low Pressure Water System Demand and Peaking Factor

Parameter	Value
Average Day Demand (ADD)	Summarized in Table 3.3
Fire Flow Demands (FF)	2,000 gpm for 4 hours
Maximum Day Demand (MDD)	MDD = 1.2 ADD
Peak Hour Demand (PHD)	PHD = 2.65 ADD

Table 2.2 – Low Pressure Water System Design Criteria

Parameter	Value
Pipe Size	Pipe diameters of 8, 12, and 16 inches shall be used for all distribution and feeder mains unless otherwise approved by the Director with the consent of the PUC on a case-by-case basis. Pipe diameters of 10 and 14 inches shall not be used.
Pipe Material	Ductile Iron, Cement Lined
Hazen Williams C-value for proposed pipes	130
Maximum static pressure	74 psi[1]
Maximum velocity during PHD	8 fps[2]
Minimum pressure during PHD	40 psi[1]
Maximum velocity during MDD+FF	14 fps[2]
Minimum system pressure during MDD+FF	20 psi[1]

(1) Pounds per square inch
(2) Feet per second

3 Low Pressure Water System Model Development

3.1 Low Pressure Water System Layout

3.1.1 Existing Water Supply

Potable water is supplied to the project by the SFPUC through existing 8-inch diameter pipes on Illinois Street, 22nd Street, and 23rd Street. The existing water mains in the vicinity of the site are shown on Figure 6.

3.1.2 Existing Water Distribution

Hydrant flow tests were performed by the San Francisco Fire Department at a hydrant located on 22nd Street to the north of the site and a hydrant located on 23rd Street to the south of the site. Appendix F includes data from hydrant flow tests.

Table 3.1 – Potrero Power Station Redevelopment Project Hydrant Flow Tests

Hydrant	Observed Flow (gpm)	Static Pressure at Gauge (psi)	Observed Pressure During Flow Test (psi)	Pressure Drop During Flow Test (psi)
22nd Street	1,040	54	52	2
23rd Street	960	57	49	8

Note: See Appendix F for location of hydrants where flow tests were performed.

3.2 Proposed Potable Water System

3.2.1 Proposed Water Demands

The potable water demand used for the Project's commercial and residential breakdown are shown in Table 3.2 below. Appendix B contains the water demand calculations for the site using the SFPUC calculation spreadsheet. The spreadsheet calculates the total commercial demand and the total residential demand.

There are no off-site demands attributed to the low pressure water system. All project demands are conservatively assumed to be met with potable water through the low pressure water system; however, actual potable demands will be lower as the non-potable water system serves non-potable demands and offset the use of potable water.

Table 3.2 – Potrero Power Station Redevelopment Project Water Demand (ADD)

Land Use	Potable Water Demand (gpd)
Total Commercial	10,515
Total Residential	240,440
Total	250,995

3.2.2 Proposed Water Supply

Domestic water will continue to be supplied by SFPUC via the 8-inch low pressure water pipe aligned on Illinois Street, 22nd Street, and 23rd Street.

3.2.3 Proposed Water Distribution System

The developer will be responsible for the design and construction of the proposed potable water distribution system. The pipe material for the new mains has been modeled as Ductile Iron, meeting the SFPUC standards, but alternative pipe materials such as High Density Polyethylene (HDPE) or Polyvinyl

Chloride (PVC) may be used if approved by the SFPUC. The proposed water distribution system is shown in Figure 6.

The proposed low pressure water system is connected to the existing low pressure water system at the following locations:

- On Illinois Street at Humboldt Street
- On 22nd Street at Georgia Street
- On 22nd Street at Maryland Street
- On 23rd Street at Georgia Street

3.3 Low Pressure Water System Model Demands

3.3.1 Sources and Land Use Water Demand Data

Domestic water demand for the project are shown in Table 3.2 and were applied to the project program to develop the project low pressure water demand total. See Table 3.3 for water demands based on land use for the Maximum Residential Scenario.

3.3.2 Average Day Demand

The demands presented in Table 3.2 and the demand summaries presented in Table 3.3 reflect average day demand (ADD). The SFPUC spreadsheet shown in Appendix B only gives the total amount of flow for commercial and residential uses. By using the allocation of land use by block shown in Appendix D it is possible to determine the flow that goes to each land use and block. See Appendix E for the calculation of demands by block for modeling purposes.

Table 3.3 – Potrero Power Station Redevelopment Project Maximum Residential Scenario Water Demand Summary (ADD)

Land Use	Area (sf)	Water Demand (gpd)
Residential	3,014,376	240,440
Office	421,952	3,247
Laboratory	645,738	4,969
Hotel	--	--
Retail	107,439	827
PDR	45,040	347
Community Facilities	100,938	777
Assembly Space	25,000	348
	Total	**250,955**

3.3.3 Maximum Day Demand

Maximum Day Demand (MDD) represents the maximum volume of water used in any 24-hour period for the entire year. A water system is typically evaluated under a maximum day plus fire flow demand condition as this allows the system to be stressed at a higher demand rate to ascertain if pipeline carrying capacities are adequate. To develop MDD, a peaking factor of 1.2 was applied to ADD.

3.3.4 Peak Hour Demand

Peak Hour Demand (PHD) represents the highest hourly demand for the entire system and simulates the highest non-fire flow rate expected. To determine the PHD, a peaking factor was applied to the ADD. Peaking factors represent the increase above ADD and are a statistical concept typically obtained from historical data. As identified in Table 2.1, a peaking factor of 2.65 was applied to ADD.

3.3.5 Fire Flow Demand

The project Fire Flow (FF) demand used for this study is 2,000 gallons per minute (gpm). The Potrero Power Station Redevelopment – Fire Flow Evaluation prepared by Coleman Engineering dated January 24, 2018, which is included as Appendix A to this memorandum, indicates that only 1,500 gpm of fire flow is required. However, to be conservative and allow for flexibility in future development, 2,000 gpm is used in the model.

Based on the California Fire Code of 1,500 gpm for a duration of 4 hours, the total volume of water required for fire storage is 360,000 gallons. See Appendix A for more information on the fire flow requirement.

3.4 Low Pressure Water System Model Boundary Conditions

The proposed low pressure water system is modeled based on the three connection points to the existing low pressure water system itemized in Section 3.2.3 above. The existing low pressure water system is supplied by the City at the flows and pressures demonstrated in the hydrant test. The model is based on the hydrant flow tests performed by the San Francisco Fire Department and was adjusted to reflect the static and residual pressures observed at the hydrants during the flow tests. See Appendix F for hydrant flow test results.

4 Low Pressure Water System Model Analysis

4.1 Low Pressure Water System Model Scenarios

The Potrero Power Station Redevelopment model was created in Bentley Water CAD V8i. A series of model scenarios were created to reflect the range of demand usage patterns and confirm conformance to the Low Pressure Water System Design Criteria outlined in Table 2.2. Six model runs were prepared for the Maximum Residential Scenario as shown in Table 4.1 below. The model runs that contain a fire flow analysis test the flow and pressure at the buildings and fire hydrants on site. The proposed fire hydrant locations are shown in Appendix G.

Table 4.1 - Potrero Power Station Redevelopment Project Maximum Residential Scenario Model Runs

Run	Description
1.1.0	Static Pressures
1.2.0	Peak Hour Demand
1.3.0	Maximum Day Demand + Fire Flow
1.3.1	Redundancy Check #1 – Illinois Street Connection Not in Service (MDD+FF)
1.3.2	Redundancy Check #2 – 22rd Street Connections Not in Service (MDD+FF)
1.3.3	Redundancy Check #3 – 23rd Street Connections Not in Service (MDD+FF)

Note: See Appendix C for model run results for the Maximum Residential Scenario.

4.2 Low Pressure Water Model System Connections

The 1.1.0 Static Pressures model run uses the static pressure from the hydrant flow tests at the reservoir locations in the model.

For the remainder of the model runs, the connection points in the model to the City system were set using the hydrant flow tests that were performed by the San Francisco Fire Department. Flow curves were developed for each hydrant as shown in Appendix F using a standard hydrant residual flow equation to determine hydrant flow capacity. This allows the model to use various pressures at different flow demands on site. The hydrant flow curves used in the model are included in Appendix C.

5 Low Pressure Water System Phasing

This infrastructure Master Plan is intended to document build out of the Potrero Power Station Redevelopment. The Project will be built out in phases. Appendix B shows how the project phasing is planned. A Low Pressure Water Design Report may be prepared with each project phase to address project service, service to existing uses to remain, and temporary bypasses that may be required to facilitate construction.

6 Low Pressure Water System Model Scenario Results

6.1 Proposed Low Pressure Water System Model Results

The proposed low pressure water system as shown in Figure 6 is designed to meet the design criteria in Table 2.2. Table 6.1 summarizes the pressure and velocity results for the referenced model scenarios listed in Table 4.1.

Table 6.1 – Low Pressure Water System Model Results

Parameter	Requirement	Modeled Minimum	Modeled Maximum
Static Pressure (psi)	74 max	-	61.5
PHD Pressure (psi)	40 min	53.8	-
PHD Velocity (fps)	8 max	-	1.37
MDD+FF Pressure (calculated lower limit at total flow available) (psi)	20 min	50.9	-
MDD+FF Velocity (fps)	14 max	-	12.8

In all instances, the model scenarios meet the criteria listed in Table 2.2. Table 6.1 provides the minimum or maximum values that were found in the different scenarios. Based on the model runs and the given design parameters, the low pressure water system meets all design criteria and will be able to provide sufficient water to the proposed Potrero Power Station Redevelopment.

Appendix A

Potrero Power Station Redevelopment Fire Flow Evaluation

Technical Memorandum

To:	City of San Francisco
From:	Chad Coleman, PE Christian Kesler, EIT
Date:	May 17, 2018
Project:	Potrero Power Station Redevelopment
Subject:	Fire Flow Evaluation

This document will outline our assessment of the fire flow requirements for the proposed Potrero Power Station Redevelopment in San Francisco, California. The purpose of our assessment is to develop an estimate for fire flow required for the buildings anticipated to be on site, and compare that to the anticipated fire flow available. This document, the water demand calculations in Appendix B, and water model results in Appendix C are compliant with the California Fire Code.

REQUIRED FIRE FLOW

Site Fire Flow. The project anticipates 15 new buildings in addition to a parking garage. All buildings are anticipated to be provided with sprinkler protection. This will likely be a CBC requirement for all new buildings proposed and is anticipated to be included in the renovation of the existing buildings as well.

The buildings are anticipated to be built of Types I, III, and V construction, and range in height from 65-feet to 300-feet. While the design details have not yet been developed, we have considered various scenarios to determine what might be the most challenging fire flow requirement presented. The architect anticipates that all buildings will be either Type IA or IIIA.

The fire flows required for building projects in San Francisco are determined from Table B105.1 in Appendix B of the California Fire Code (CFC). We have anticipated the highest fire flow requirement to be for Building 7, which is anticipated to be a primarily residential building occupying approximately 463,787 ft^2.The lowest fire flow allowed by Table B105.1 for any area and construction type is 1,500 gpm. For a Type IA or IIIA building, Building 7 classifies as the greatest flow with a fire flow of 6,000 gpm for a duration of four hours being required. This is the maximum fire flow required in the CFC for Type IA or IIIA building. Several other buildings on site could have requirements for similar fire flows. Other area and construction type

arrangements may provide for a maximum flow limit of 5,500 gpm or flow less than both of these.

Table B105.2 of the California Fire Code allows a reduction of up to 75% (as approved by the Chief), but not less than a total requirement of 1,500 gpm, if sprinkler protection is provided in the building. Given that the buildings on the site will be provided with sprinkler protection and given that the city of San Francisco typically allows a 75% reduction for the installation of sprinkler systems, the maximum fire flows on site would be reduced to 1,500 gpm (75% reduction from 6,000 gpm to a minimum of 1,500 gpm). Higher fire flow requirements would be possible if sprinklers are not installed.

AVAILABLE FIRE FLOW

The anticipated points of connection from the existing municipal water mains to the network supplying the proposed development were tested by SFFD representatives to verity the capacity of the supply system. The test readings reported are typically lower than the actual flow and pressure measured, so the test reports received are believed to be conservatively low. Based on this information, and proposed improvements to the municipal network, the development water system is conservatively estimated to be able to deliver at least 1,500 gpm to any building on the site.

The maximum potable water demand in gallons that would be needed is based on the 1,500 gpm for a duration of four hours requirement. Converting the fire flow to hours and then multiplying by the required flow duration shows the total amount of gallons needed (1,500 gal/min * 60 min/hr * 4 hours = 360,000 gallons). The calculation shows that 360,000 gallons of water are needed per the CFC.

SUMMARY

This evaluation shows that the water distribution system proposed for the project site should be sufficient to supply either the water requirements of the anticipated fire protection systems for any building proposed, or the site fire flow as indicated in Appendix B of the CFC for the largest anticipated building proposed, but not a combination of both flow simultaneously. This should comply with current fire flow standards in San Francisco.

It should be noted that the quantity of water supply calculated to be available is based upon conservative readings of the existing water supply system. The quantity of water available is very likely to be more than estimated.

Appendix B

Water Demand Memorandum

CIVIL ENGINEERS ▪ SURVEYORS ▪ PLANNERS

March 21, 2018
Job No.: 2747-000

M E M O R A N D U M

TO: Erin Epperson – Associate Capital

FROM: Angelo Obertello, P.E., LEED AP, Principal

SUBJECT: Potrero Power Station – Project Water Demand

The following provides a summary of the estimated potable and non-potable water demands associated with the Potrero Power Station project.

Project Description

The Potrero Power Station project ("Proposed Project") area is approximately 28.8 acres located along San Francisco's Central Waterfront. The project site is generally bound by 22nd Street to the north, the San Francisco Bay to the east, 23rd Street to the south and Illinois Street to the west.

The Proposed Project includes the redevelopment of the project site into a mixed-use development including residential, commercial, hotel, community facility, PDR, retail and other active uses, and parking. The Proposed Project would also include public access areas and open spaces and a grid of public streets and private alleys.

Overall, the Proposed Project would involve the construction of up to approximately 5.3 million gross square feet. The proposed target development program and maximum residential or commercial scenarios are outlined as follows:

Table 1: Proposed Development Program Scenarios

Proposed Building Use	Preferred Development Program	Maximum Residential Development Program	Maximum Commercial Development Program
Residential	2,682 units / 2,682,427 sf	3,014 units / 3,014,376 sf	2,441 units / 2,441,667 sf
Commercial (Hotel)	241,574 sf	0 sf	241,574 sf
Commercial (Office)	597,723 sf	421,952 sf	814,240 sf
Commercial (Research And Development)	645,738 sf	645,738 sf	645,738 sf
Commercial (Retail)	107,439 sf	107,439 sf	107,439 sf
Commercial (PRD)	45,040 sf	45,040 sf	45,040 sf
Community Facilities	100,938 sf	100,938 sf	100,938 sf
Assembly / Entertainment	25,000 sf	25,000 sf	25,000 sf
Parking	921,981 sf	931,614 sf	902,856 sf
Public Open Space	6.3 acres	6.3 acres	6.3 acres

Potable water is currently available from existing potable water pipelines adjacent to the project site located in 22nd Street, 23rd Street and Illinois Street.

The project site is located within the City's designated recycled water use area and is subject to the Recycled Water Use Ordinance. Accordingly, the Proposed Project would install a recycled water distribution pipeline system throughout the project site.

The Proposed Project is also subject to the Non-Potable Water Ordinance. The proposed project would include the diversion and reuse of graywater and rainwater for toilet and urinal flushing, cooling towers and irrigation uses. The non-potable water generated within the project site would be distributed to the proposed buildings through the proposed recycled water pipeline system.

Existing Potable and Non-Potable Water Demand

The historical water use at the project site was associated with the PG&E Power Plant, which was closed in 2011. Since the PG&E Power Plant was closed in 2011, the site has on-going environmental remediation activities and some of the structures have been since demolished. The existing water use has been further reduced as there are only a small amount of remaining employees and uses within the project site. There is no available source or use of recycled water at the project site.

In order to estimate the historical potable water demand, a unit demand factor of 0.15 gallons per day per square foot has been applied to the existing building square footages. Prior to 2008 and adoption of California Green Building Standards, 0.10 gallons per day per square foot was a generally accepted water demand for office / commercial space. This demand factor has been increased to 0.15 gpd / sf to account for older, less efficient fixtures within the existing buildings. The existing water demand estimated is based on the square footage of the existing structures within project even though the majority of these existing structures housed power generation equipment that did not have a potable water demand. Table 2 outlines the estimated historical potable water demands at the project site.

Table 2: Existing Potable Water Demand

Building Uses	Unit	Demand Factor	Potable Water Demand	
			Average Daily Demand (gal per day)	Average Daily Demand (gpm)
Commercial (Industrial)[1]	107,000 sf	0.15 gpd / sf	16,050 gpd	11 gpm

Notes[1]:
The existing square footages of the existing building within the project site are based upon the September 15, 2017 project application materials.

Proposed Potable and Non-Potable Water Demand

The potable and non-potable water demand calculations associated with each development program scenario for the Proposed Project are estimated using the SFPUC's Non-Potable Water Program district scale water calculator ("calculator").

The estimated indoor water demands were input to the calculator to reflect HVAC / Cooling Demands. The HVAC / Cooling water demands were estimated based on the projected cooling loads for each development program scenario. The cooling load of each land use within the development was estimated by Atelier Ten using energy models based on current 2016 Title 24 California Building Energy Efficiency Standards. The cooling load was converted to cooling tower water demands by adding the heat load from the chillers and auxiliary mechanical systems. Then the quantity of water was calculated based on the required amount to evaporate this heat load plus additional water to accommodate blowdown and drift. The cooling tower water demand input to the calculator represents a maximum estimate. The actual cooling tower water demands could be lower if heat recovery systems are installed to meet the heat loads in the buildings. The output from the calculator for each development program scenario is enclosed as Attachment 1.

Below are summary tables for the proposed Potable and Non-Potable Water Demands associated with the proposed project. The demands are provided by 5-year increments based on the proposed project Phasing Plan. The Phasing Plan is enclosed as Attachment 2. The highest water demand development program scenario is the maximum residential program.

Table 3: Cumulative Potable Water Demand

	Average Daily Water Demand (gpd)			
	2020	**2025**	**2030**	**2035**
Target Program	0	30,700	132,200	224,400
Maximum Residential Program	0	57,300	158,800	251,000
Maximum Commercial Program	0	30,700	117,400	205,000

Table 4: Cumulative Recycled Water Demand

	Average Daily Water Demand (gpd)			
	2020	**2025**	**2030**	**2035**
Target Program	0	16,700	55,000	78,900
Maximum Residential Program	0	14,400	49,900	73,800
Maximum Commercial Program	0	16,700	49,800	79,300

Attachment 1

NON-POTABLE WATER CALCULATOR

Project Summary Sheet

Project Contact: Angelo Obertello
925-866-0322
aobertello@cbandg.com

Estimated Site/Building Permit Issuance Date: 1/1/2020

Total Gross Square Footage: 5,367,860

1. Demands and Supplies Summary

Demands Met by Non-Potable Supply for Project (gpy):	28,792,700	Meets Grant Criteria for Annual Offset in Year 2036
*Demands Met by Non-Potable Supply for Project**:*	26%	
*Project Total Annual Water Demand (gpy)**:*	110,681,535	
If Grant Offset Criteria Met, Occurs in Year:	2036	
Potable Make-Up Water Allocation (gpy):	1,910,686	Potable supplies are allocated to this project to meet remaining demands. Projects are allocated an additional 10% in potable supplies as a buffer.
Avg. Daily Wet Weather Potable Allocation (gpd):	5,006	Projects are allocated these potable supplies during wet weather months (October - March)
Avg. Daily Dry Weather Potable Allocation (gpd):	5,469	Projects are allocated these potable supplies during dry weather months (April - September)

*Note: Estimates based on Tab 6 - Building Potential Summary total water demand values. Manually entered non-potable demands that exceed auto-calculated non-potable demands from Tab 6 may result in Total Annual Water demands greater than the value used in this analysis

2. Building Information Summary

	Main Project Site 1	Site 2	Site 3
Project / Building Name:	Potrero Power Plant - Target Program		
Project Address:	420 23rd Street		
Assessor's Block & Lot No. / APN:	4232-006		
Year Online:	2036		
Building Type:	Mixres	Mixres	Mixres
Total Building Size (gross square footage or GSF):	5,367,860	0	0
Total Lot Size (ft^2):	1,262,277	0	0
Number of Residential Units:	2,682	0	0
Impervious Surface Above Grade (ft^2):	533,200	0	0
Impervious Surface Below Grade (ft^2):	332,246	0	0
Landscaped Area (ft^2):	207,810	0	0
Site Location (Zone):	Eastern SF	Eastern SF	Eastern SF

3. Summary of Nonpotable Demands and Supplies for the Project

Non-Potable Water Supply Estimates

On-site Alternate Water Source Supplies	Annual Supply (gpy)	Annual Supply (gpy)	Annual Supply (gpy)	Total (gpy)
Rainwater:	4,469,973	0	0	**4,469,973**
Stormwater:	3,586,006	0	0	**3,586,006**
Graywater:	47,561,467	0	0	**47,561,467**
Blackwater:	0	0	0	**0**
Foundation Drainage	0	0	0	**0**
Cooling & Other Supplies	1,452,868	0	0	**1,452,868**
TOTAL :	**57,070,314**	**0**	**0**	**57,070,314**

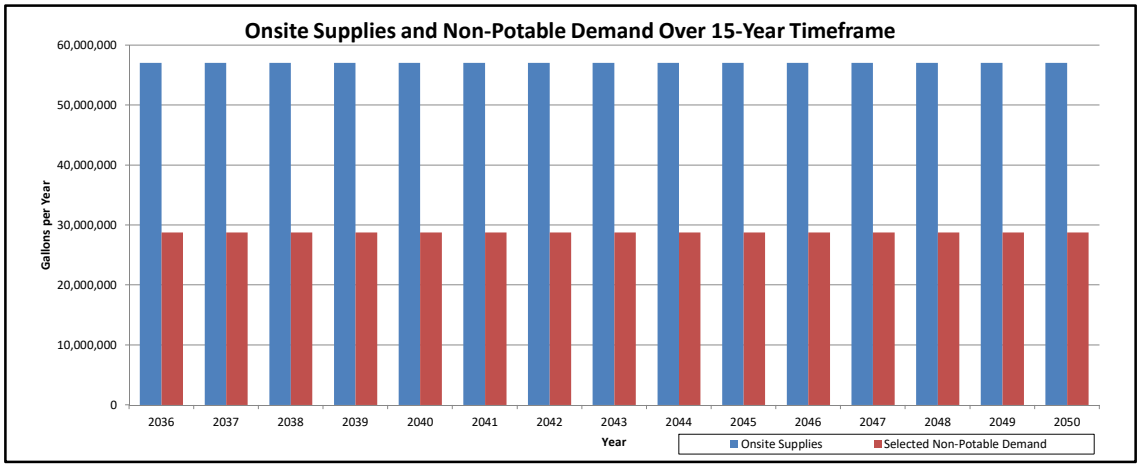
Non-Potable Applications Estimates

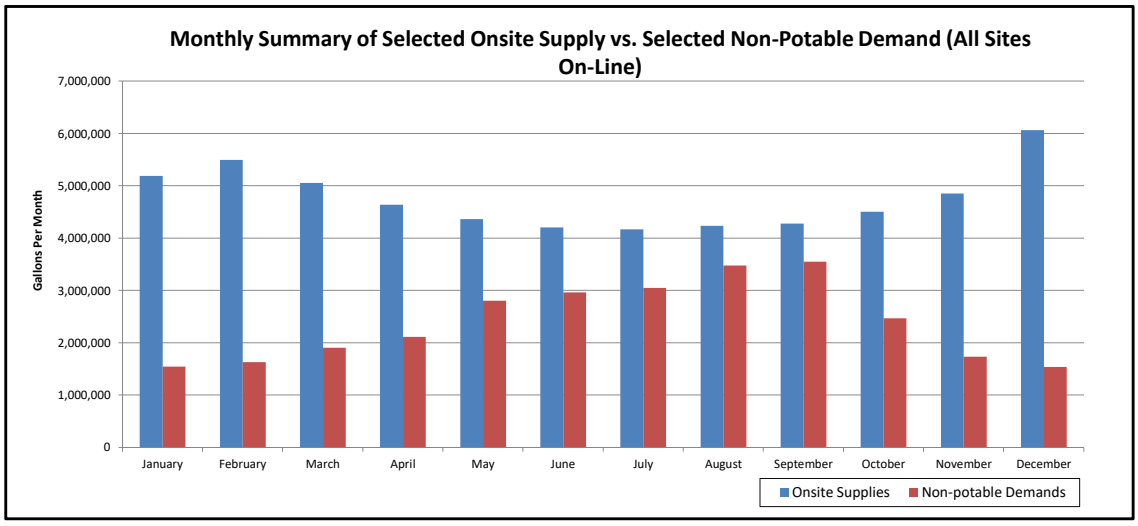
Project Specific Non-Potable Application Demands	Annual Demand (gpy)	Annual Demand (gpy)	Annual Demand (gpy)	Total (gpy)
Toilets/Urinals:	17,292,322	0	0	**17,292,322**
Irrigation:	1,814,537	0	0	**1,814,537**
Toilets/Urinals + Irrigation:	19,106,859	0	0	**19,106,859**
Cooling Tower:	9,685,785	0	0	**9,685,785**
Commercial Laundry & Other	0	0	0	**0**
TOTAL:	**28,792,644**	**0**	**0**	**28,792,644**

4. Project Phasing

	SITE 1: Potrero Power Plant - Target Program -- 420 23rd Street		SITE 2: --		SITE 3: --		
15-Year Timeframe	NP Offset Supplies (gpy)	Selected NP Demand (gpy)	NP Offset Supplies (gpy)	Selected NP Demand (gpy)	NP Offset Supplies (gpy)	Selected NP Demand (gpy)	Re-Used Non-Potable Supplies (gpy)
2036	57,070,314	28,792,644	0	0	0	0	28,792,644
2037	57,070,314	28,792,644	0	0	0	0	28,792,644
2038	57,070,314	28,792,644	0	0	0	0	28,792,644
2039	57,070,314	28,792,644	0	0	0	0	28,792,644
2040	57,070,314	28,792,644	0	0	0	0	28,792,644
2041	57,070,314	28,792,644	0	0	0	0	28,792,644
2042	57,070,314	28,792,644	0	0	0	0	28,792,644
2043	57,070,314	28,792,644	0	0	0	0	28,792,644
2044	57,070,314	28,792,644	0	0	0	0	28,792,644
2045	57,070,314	28,792,644	0	0	0	0	28,792,644
2046	57,070,314	28,792,644	0	0	0	0	28,792,644
2047	57,070,314	28,792,644	0	0	0	0	28,792,644
2048	57,070,314	28,792,644	0	0	0	0	28,792,644
2049	57,070,314	28,792,644	0	0	0	0	28,792,644
2050	57,070,314	28,792,644	0	0	0	0	28,792,644

This offset analysis assumes the full year of supplies is available to offset non-potable demands. Some scenarios may require storage to store excess supplies from one month in order to use those supplies in another month with unmet demands.





Attachment 1

NON-POTABLE WATER CALCULATOR

Project Summary Sheet

Project Contact: Angelo Obertello
925-866-0322
aobertello@cbandg.com

Estimated Site/Building Permit Issuance Date: 1/1/2020

Total Gross Square Footage: 5,292,097

1. Demands and Supplies Summary

Demands Met by Non-Potable Supply for Project (gpy):	26,940,000	Meets Grant Criteria for Annual Offset in Year 2036
Demands Met by Non-Potable Supply for Project:*	*23%*	
Project Total Annual Water Demand (gpy):*	*118,538,329*	
If Grant Offset Criteria Met, Occurs in Year:	2036	
Potable Make-Up Water Allocation (gpy):	1,866,025	Potable supplies are allocated to this project to meet remaining demands. Projects are allocated an additional 10% in potable supplies as a buffer.
Avg. Daily Wet Weather Potable Allocation (gpd):	4,883	Projects are allocated these potable supplies during wet weather months (October - March)
Avg. Daily Dry Weather Potable Allocation (gpd):	5,347	Projects are allocated these potable supplies during dry weather months (April - September)

*Note: Estimates based on Tab 6 - Building Potential Summary total water demand values. Manually entered non-potable demands that exceed auto-calculated non-potable demands from Tab 6 may result in Total Annual Water demands greater than the value used in this analysis

2. Building Information Summary

	Main Project Site 1	Site 2	Site 3
Project / Building Name:	Potrero Power Plant - Max Res Program		
Project Address:	420 23rd Street		
Assessor's Block & Lot No. / APN:	4232-006		
Year Online:	2036		
Building Type:	Mixres	Mixres	Mixres
Total Building Size (gross square footage or GSF):	5,292,097	0	0
Total Lot Size (ft^2):	1,262,277	0	0
Number of Residential Units:	3,014	0	0
Impervious Surface Above Grade (ft^2):	533,200	0	0
Impervious Surface Below Grade (ft^2):	332,246	0	0
Landscaped Area (ft^2):	207,810	0	0
Site Location (Zone):	Eastern SF	Eastern SF	Eastern SF

3. Summary of Nonpotable Demands and Supplies for the Project

Non-Potable Water Supply Estimates

On-site Alternate Water Source Supplies	Annual Supply (gpy)	Annual Supply (gpy)	Annual Supply (gpy)	Total (gpy)
Rainwater:	4,349,681	0	0	**4,349,681**
Stormwater:	3,524,944	0	0	**3,524,944**
Graywater:	53,190,626	0	0	**53,190,626**
Blackwater:	0	0	0	**0**
Foundation Drainage	0	0	0	**0**
Cooling & Other Supplies	1,241,952	0	0	**1,241,952**
TOTAL :	**62,307,203**	**0**	**0**	**62,307,203**

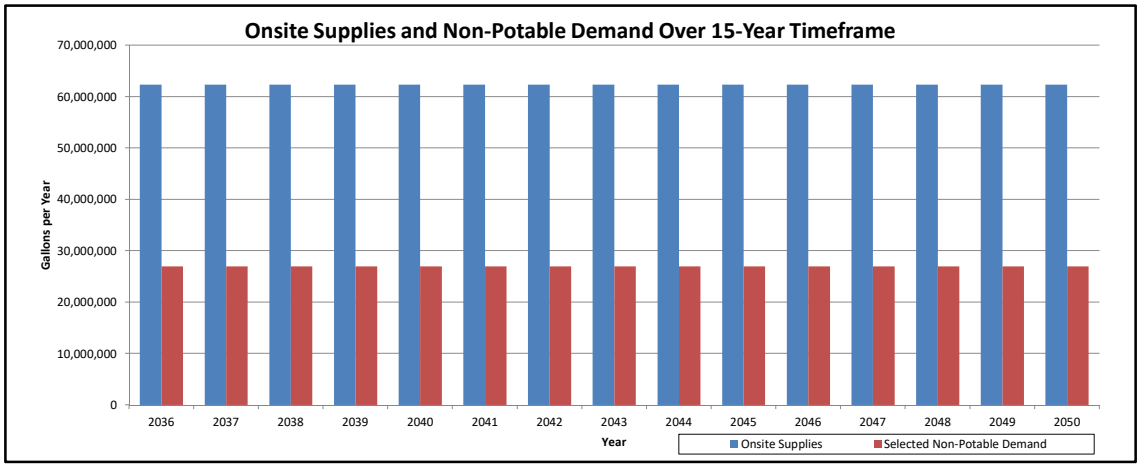
Non-Potable Applications Estimates

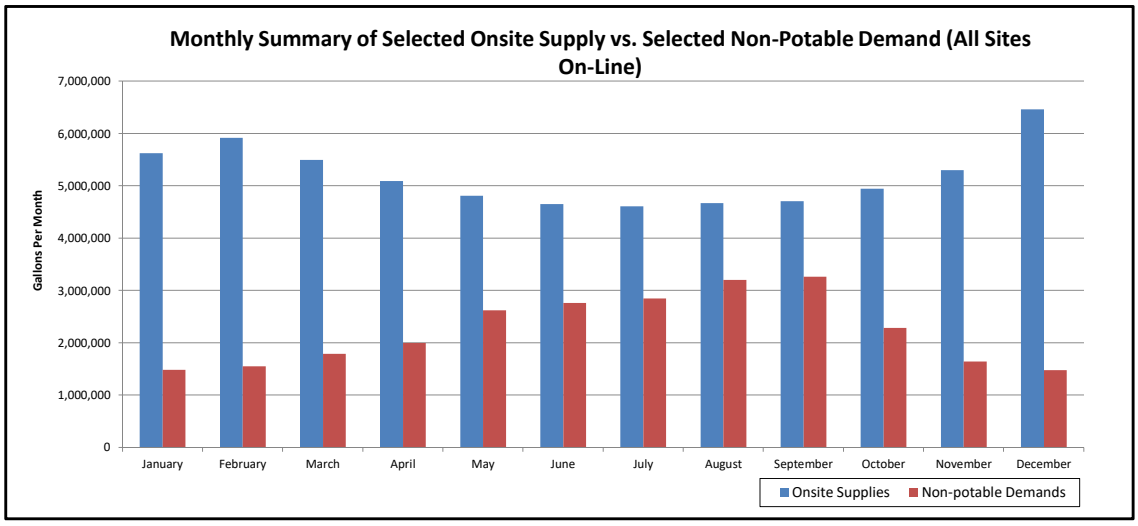
Project Specific Non-Potable Application Demands	Annual Demand (gpy)	Annual Demand (gpy)	Annual Demand (gpy)	Total (gpy)
Toilets/Urinals:	16,845,715	0	0	**16,845,715**
Irrigation:	1,814,537	0	0	**1,814,537**
Toilets/Urinals + Irrigation:	18,660,252	0	0	**18,660,252**
Cooling Tower:	8,279,677	0	0	**8,279,677**
Commercial Laundry & Other	0	0	0	**0**
TOTAL:	**26,939,929**	**0**	**0**	**26,939,929**

4. Project Phasing

	SITE 1: Potrero Power Plant - Max Res Program -- 420 23rd Street		SITE 2: --		SITE 3: --		
15-Year Timeframe	NP Offset Supplies (gpy)	Selected NP Demand (gpy)	NP Offset Supplies (gpy)	Selected NP Demand (gpy)	NP Offset Supplies (gpy)	Selected NP Demand (gpy)	Re-Used Non-Potable Supplies (gpy)
2036	62,307,203	26,939,929	0	0	0	0	26,939,929
2037	62,307,203	26,939,929	0	0	0	0	26,939,929
2038	62,307,203	26,939,929	0	0	0	0	26,939,929
2039	62,307,203	26,939,929	0	0	0	0	26,939,929
2040	62,307,203	26,939,929	0	0	0	0	26,939,929
2041	62,307,203	26,939,929	0	0	0	0	26,939,929
2042	62,307,203	26,939,929	0	0	0	0	26,939,929
2043	62,307,203	26,939,929	0	0	0	0	26,939,929
2044	62,307,203	26,939,929	0	0	0	0	26,939,929
2045	62,307,203	26,939,929	0	0	0	0	26,939,929
2046	62,307,203	26,939,929	0	0	0	0	26,939,929
2047	62,307,203	26,939,929	0	0	0	0	26,939,929
2048	62,307,203	26,939,929	0	0	0	0	26,939,929
2049	62,307,203	26,939,929	0	0	0	0	26,939,929
2050	62,307,203	26,939,929	0	0	0	0	26,939,929

This offset analysis assumes the full year of supplies is available to offset non-potable demands. Some scenarios may require storage to store excess supplies from one month in order to use those supplies in another month with unmet demands.





Attachment 1

NON-POTABLE WATER CALCULATOR

Project Summary Sheet

Project Contact: Angelo Obertello
925-866-0322
aobertello@cbandg.com

Estimated Site/Building Permit Issuance Date: 1/1/2020

Total Gross Square Footage: 5,324,492

1. Demands and Supplies Summary

Demands Met by Non-Potable Supply for Project (gpy):	28,939,200	Meets Grant Criteria for Annual Offset in Year 2036
*Demands Met by Non-Potable Supply for Project**:	28%	
*Project Total Annual Water Demand (gpy)**:	103,742,471	
If Grant Offset Criteria Met, Occurs in Year:	2036	
Potable Make-Up Water Allocation (gpy):	1,863,132	Potable supplies are allocated to this project to meet remaining demands. Projects are allocated an additional 10% in potable supplies as a buffer.
Avg. Daily Wet Weather Potable Allocation (gpd):	4,875	Projects are allocated these potable supplies during wet weather months (October - March)
Avg. Daily Dry Weather Potable Allocation (gpd):	5,339	Projects are allocated these potable supplies during dry weather months (April - September)

*Note: Estimates based on Tab 6 - Building Potential Summary total water demand values. Manually entered non-potable demands that exceed auto-calculated non-potable demands from Tab 6 may result in Total Annual Water demands greater than the value used in this analysis

2. Building Information Summary

	Main Project Site 1	Site 2	Site 3
Project / Building Name:	Potrero Power Plant - Max Commercial Program		
Project Address:	420 23rd Street		
Assessor's Block & Lot No. / APN:	4232-006		
Year Online:	2036		
Building Type:	Mixres	Mixres	Mixres
Total Building Size (gross square footage or GSF):	5,324,492	0	0
Total Lot Size (ft^2):	1,262,277	0	0
Number of Residential Units:	2,441	0	0
Impervious Surface Above Grade (ft^2):	533,200	0	0
Impervious Surface Below Grade (ft^2):	332,246	0	0
Landscaped Area (ft^2):	207,810	0	0
Site Location (Zone):	Eastern SF	Eastern SF	Eastern SF

3. Summary of Nonpotable Demands and Supplies for the Project

Non-Potable Water Supply Estimates

On-site Alternate Water Source Supplies	Annual Supply (gpy)	Annual Supply (gpy)	Annual Supply (gpy)	Total (gpy)
Rainwater:	4,479,103	0	0	**4,479,103**
Stormwater:	3,590,701	0	0	**3,590,701**
Graywater:	43,404,144	0	0	**43,404,144**
Blackwater:	0	0	0	**0**
Foundation Drainage	0	0	0	**0**
Cooling & Other Supplies	1,546,170	0	0	**1,546,170**
TOTAL :	**53,020,119**	**0**	**0**	**53,020,119**

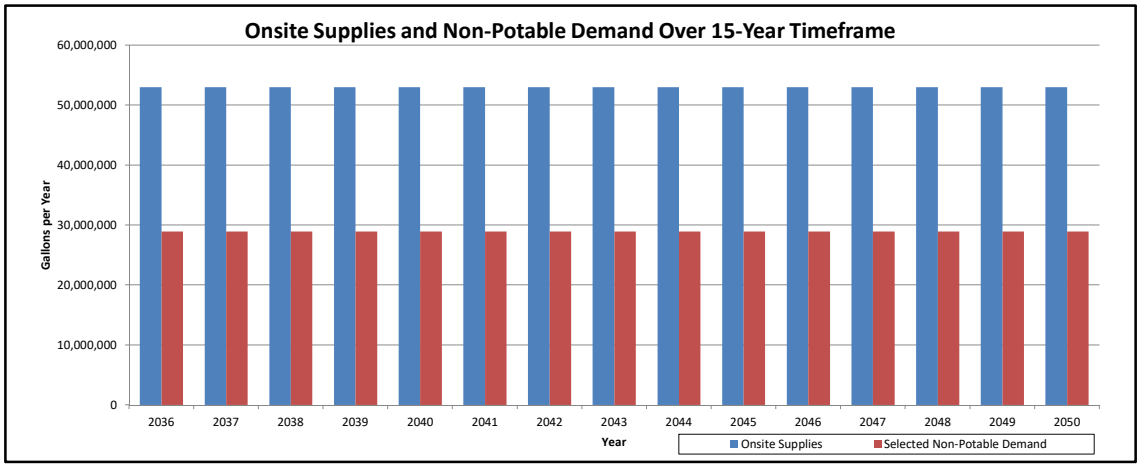
Non-Potable Applications Estimates

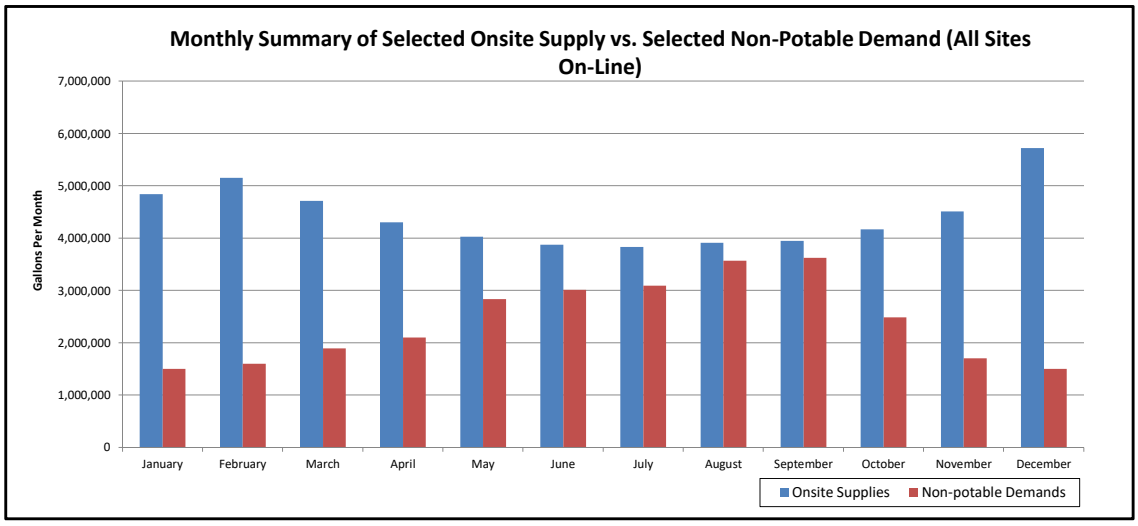
Project Specific Non-Potable Application Demands	Annual Demand (gpy)	Annual Demand (gpy)	Annual Demand (gpy)	Total (gpy)
Toilets/Urinals:	16,816,788	0	0	**16,816,788**
Irrigation:	1,814,537	0	0	**1,814,537**
Toilets/Urinals + Irrigation:	18,631,325	0	0	**18,631,325**
Cooling Tower:	10,307,803	0	0	**10,307,803**
Commercial Laundry & Other	0	0	0	**0**
TOTAL:	**28,939,128**	**0**	**0**	**28,939,128**

4. Project Phasing

	SITE 1: Potrero Power Plant - Max Commercial Program -- 420 23rd Street		SITE 2: --		SITE 3: --		
15-Year Timeframe	NP Offset Supplies (gpy)	Selected NP Demand (gpy)	NP Offset Supplies (gpy)	Selected NP Demand (gpy)	NP Offset Supplies (gpy)	Selected NP Demand (gpy)	Re-Used Non-Potable Supplies (gpy)
2036	53,020,119	28,939,128	0	0	0	0	28,939,128
2037	53,020,119	28,939,128	0	0	0	0	28,939,128
2038	53,020,119	28,939,128	0	0	0	0	28,939,128
2039	53,020,119	28,939,128	0	0	0	0	28,939,128
2040	53,020,119	28,939,128	0	0	0	0	28,939,128
2041	53,020,119	28,939,128	0	0	0	0	28,939,128
2042	53,020,119	28,939,128	0	0	0	0	28,939,128
2043	53,020,119	28,939,128	0	0	0	0	28,939,128
2044	53,020,119	28,939,128	0	0	0	0	28,939,128
2045	53,020,119	28,939,128	0	0	0	0	28,939,128
2046	53,020,119	28,939,128	0	0	0	0	28,939,128
2047	53,020,119	28,939,128	0	0	0	0	28,939,128
2048	53,020,119	28,939,128	0	0	0	0	28,939,128
2049	53,020,119	28,939,128	0	0	0	0	28,939,128
2050	53,020,119	28,939,128	0	0	0	0	28,939,128

This offset analysis assumes the full year of supplies is available to offset non-potable demands. Some scenarios may require storage to store excess supplies from one month in order to use those supplies in another month with unmet demands.





Attachment 2

POTRERO POWER PLANT, SAN FRANCISCO CA | DECEMBER 21, 2017

PHASING PLAN

22ND STREET
PIER 70
SERVICE ALLEY
BLOCK 13A
MICHIGAN STREET
BLOCK 13B
GEORGIA STREET
BLOCK 1
LOUISIANA ST.
BLOCK 2
BLOCK 3
BLOCK 4
HUMBOLDT STREET
HUMBOLDT ST PLAZA
ILLINOIS STREET
BLOCK 5
GEORGIA STREET
BLOCK 6
BLOCK 7
POWER STATION PARK
BLOCK 11
BLOCK 10
MARYLAND STREET
BLOCK 8
POWER STATION PARK
BLOCK 12
DELAWARE STREET
BLOCK 9
UNIT 3
23RD STREET
POTRERO POINT PARK
SAN FRANCISCO BAY

LEGEND

- PHASE 0
- PHASE 0.1 (TANK FARM AREA)
- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4
- PHASE 5
- PHASE 6
- PHASE 7
- NORTHERN SWITCHYARD (PG&E PROPERTY)

NOTES:

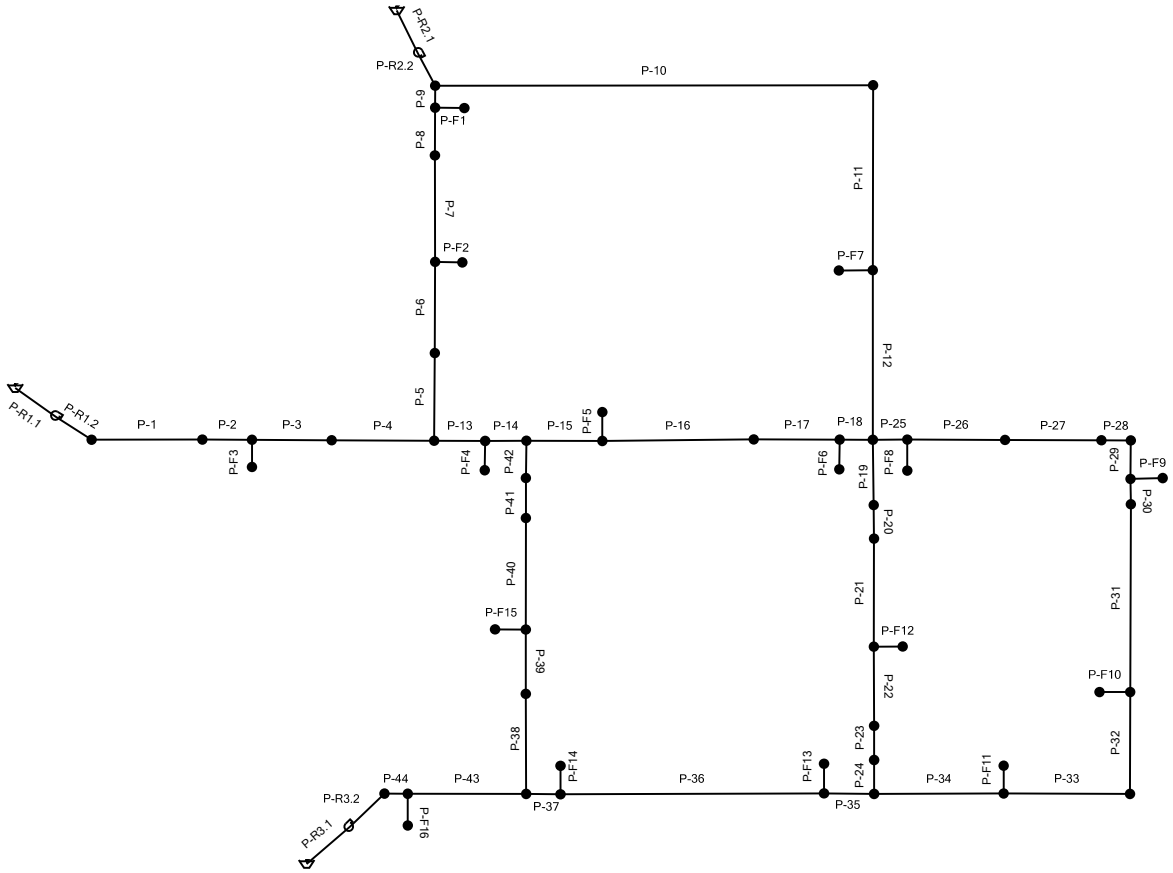
1. THE NORTHERN SWITCHYARD IS OWNED BY PG&E. PG&E HAS CONSENTED TO INCLUDING THE NORTHERN SWITCHYARD IN THE PROJECT SPONSORS' REZONING EFFORTS; HOWEVER, THE DEVELOPMENT OF THIS PARCEL WOULD NOT PROCEED UNLESS PG&E AGREES TO TERMS.
2. HUMBOLDT STREET WITHIN NORTHERN SWITCHYARD BOUNDARY IS ASSUMED TO REMAIN IN ITS EXISTING CONDITION UNTIL PHASE 6. HUMBOLDT STREET WIDENING WORK IS INCLUDED IN PHASE 6 PER THIS PHASING PLAN.
3. PHASE 0 WILL INCLUDE DEMOLITION, SITE PREP & ROUGH GRADING WORK FOR ALL DEVELOPMENT PHASES. PHASE 0.1 TANK FARM AREA IS INCLUDED WITHIN THE BOUNDARY OF PHASE 0 BUT IS SUBJECT TO FUTURE PG&E REMEDIATION EFFORTS WHICH COULD IMPACT SCHEDULE FOR COMPLETION OF WORK IN THIS AREA.

cbg
PERKINS+WILL

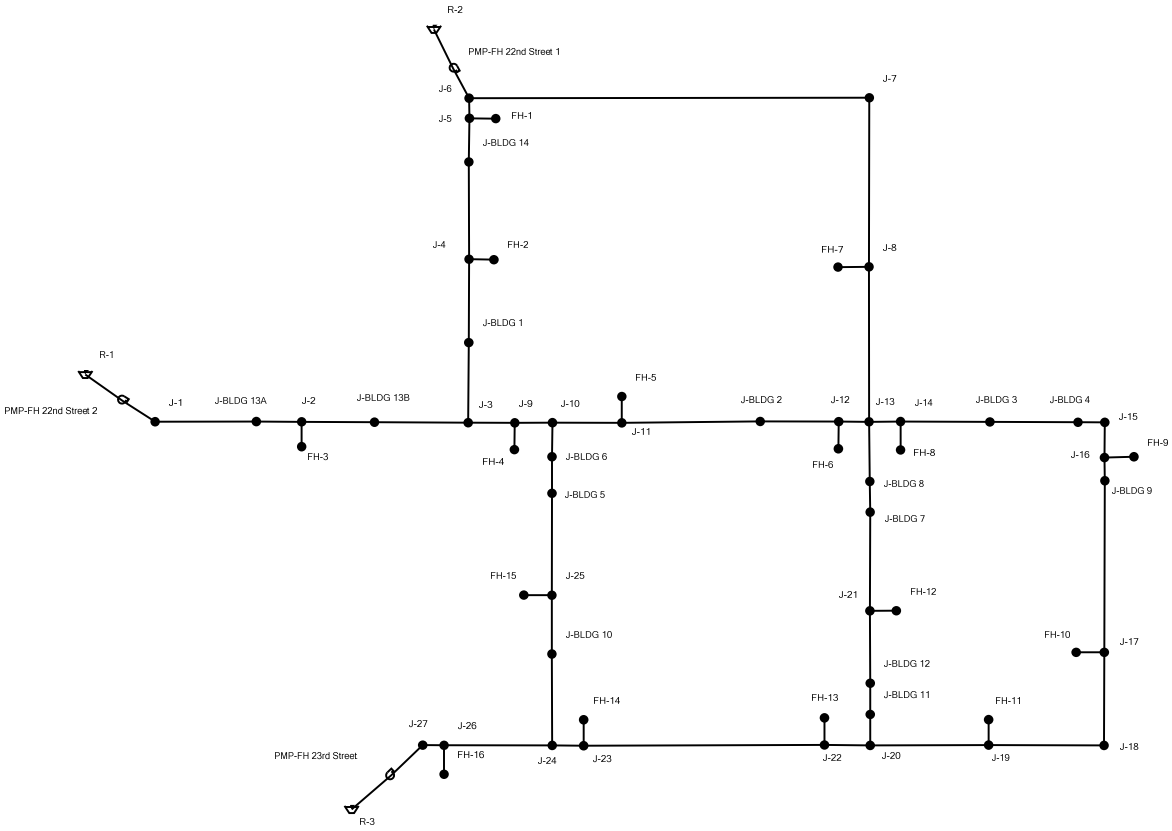
Appendix C

Maximum Residential Scenario Water Model Results

WaterCAD: Potrero Power Plant Redevelopment
Pipe Labels



WaterCAD: Potrero Power Plant Redevelopment
Node Labels



Active Scenario: 1.1.0 - Static Pressures

Label	Elevation (ft)	Pressure (psi)
FH-1	31.0	52.4
FH-2	31.0	52.4
FH-3	31.0	52.4
FH-4	28.3	53.6
FH-5	19.8	57.2
FH-6	12.6	60.3
FH-7	16.8	58.6
FH-8	11.7	60.7
FH-9	10.9	61.1
FH-10	15.7	59.0
FH-11	20.0	57.2
FH-12	17.9	58.1
FH-13	22.0	56.3
FH-14	22.0	56.3
FH-15	22.0	56.3
FH-16	22.0	56.3
J-1	31.0	52.4
J-2	31.0	52.4
J-3	30.0	52.8
J-4	31.0	52.4
J-5	31.0	52.4
J-6	32.0	52.0
J-7	22.0	56.3
J-8	16.8	58.6
J-9	28.3	53.6
J-10	22.0	56.3
J-11	19.8	57.2
J-12	12.6	60.3
J-13	12.0	60.6
J-14	11.7	60.7
J-15	10.0	61.5
J-16	10.9	61.1
J-17	15.7	59.0
J-18	18.0	58.0
J-19	20.0	57.2
J-20	22.0	56.3
J-21	17.9	58.1
J-22	22.0	56.3
J-23	22.0	56.3
J-24	22.0	56.3
J-25	22.0	56.3
J-26	22.0	56.3
J-27	22.0	56.3
J-BLDG 1	31.0	52.4
J-BLDG 2	15.4	59.1
J-BLDG 3	11.0	61.1
J-BLDG 4	10.2	61.4
J-BLDG 5	22.0	56.3
J-BLDG 6	22.0	56.3

Active Scenario: 1.1.0 - Static Pressures

Label	Elevation (ft)	Pressure (psi)
J-BLDG 7	14.8	59.4
J-BLDG 8	13.8	59.8
J-BLDG 9	11.5	60.8
J-BLDG 10	22.0	56.3
J-BLDG 11	21.0	56.7
J-BLDG 12	20.1	57.1
J-BLDG 13A	31.0	52.4
J-BLDG 13B	31.0	52.4
J-BLDG 14	31.0	52.4

Active Scenario: 1.2.0 - Peak Hour Demand

Label	Diameter (in)	Hazen-Williams C	Length (ft)	Flow (Absolute) (gpm)	Velocity (ft/s)
P-1	8.0	130.0	64	215.09	1.37
P-2	8.0	130.0	29	177.49	1.13
P-3	8.0	130.0	46	177.49	1.13
P-4	8.0	130.0	59	119.59	0.76
P-5	8.0	130.0	50	70.85	0.45
P-6	8.0	130.0	52	127.85	0.82
P-7	8.0	130.0	61	127.85	0.82
P-8	8.0	130.0	27	139.25	0.89
P-9	8.0	130.0	13	139.25	0.89
P-10	8.0	130.0	252	107.37	0.69
P-11	8.0	130.0	106	107.37	0.69
P-12	8.0	130.0	98	107.37	0.69
P-13	8.0	130.0	29	190.43	1.22
P-14	8.0	130.0	24	190.43	1.22
P-15	8.0	130.0	44	56.39	0.36
P-16	8.0	130.0	87	56.39	0.36
P-17	8.0	130.0	49	51.49	0.33
P-18	8.0	130.0	19	51.49	0.33
P-19	8.0	130.0	38	106.35	0.68
P-20	8.0	130.0	19	53.15	0.34
P-21	8.0	130.0	62	6.85	0.04
P-22	8.0	130.0	46	6.85	0.04
P-23	8.0	130.0	20	34.75	0.22
P-24	8.0	130.0	20	37.85	0.24
P-25	8.0	130.0	20	52.51	0.34
P-26	8.0	130.0	56	52.51	0.34
P-27	8.0	130.0	55	47.91	0.31
P-28	8.0	130.0	17	23.91	0.15
P-29	8.0	130.0	22	23.91	0.15
P-30	8.0	130.0	15	23.91	0.15
P-31	8.0	130.0	108	2.31	0.01
P-32	8.0	130.0	59	2.31	0.01
P-33	8.0	130.0	73	2.31	0.01
P-34	8.0	130.0	75	2.31	0.01
P-35	8.0	130.0	29	35.54	0.23
P-36	8.0	130.0	152	35.54	0.23
P-37	8.0	130.0	20	35.54	0.23
P-38	8.0	130.0	58	35.54	0.23
P-39	8.0	130.0	37	39.04	0.25
P-40	8.0	130.0	64	39.04	0.25
P-41	8.0	130.0	23	76.84	0.49
P-42	8.0	130.0	21	134.04	0.86
P-43	8.0	130.0	68	0.00	0.00
P-44	8.0	130.0	13	0.00	0.00
P-F1	8.0	130.0	17	0.00	0.00
P-F2	8.0	130.0	16	0.00	0.00
P-F3	8.0	130.0	16	0.00	0.00
P-F4	8.0	130.0	17	0.00	0.00
P-F5	8.0	130.0	17	0.00	0.00

Active Scenario: 1.2.0 - Peak Hour Demand

Label	Diameter (in)	Hazen-Williams C	Length (ft)	Flow (Absolute) (gpm)	Velocity (ft/s)
P-F6	8.0	130.0	17	0.00	0.00
P-F7	8.0	130.0	20	0.00	0.00
P-F8	8.0	130.0	18	0.00	0.00
P-F9	8.0	130.0	19	0.00	0.00
P-F10	8.0	130.0	18	0.00	0.00
P-F11	8.0	130.0	16	0.00	0.00
P-F12	8.0	130.0	17	0.00	0.00
P-F13	8.0	130.0	17	0.00	0.00
P-F14	8.0	130.0	16	0.00	0.00
P-F15	8.0	130.0	18	0.00	0.00
P-F16	8.0	130.0	18	0.00	0.00
P-R1.1	99.0	130.0	1	215.09	0.01
P-R1.2	99.0	130.0	1	215.09	0.01
P-R2.1	99.0	130.0	1	246.61	0.01
P-R2.2	99.0	130.0	1	246.61	0.01
P-R3.1	99.0	130.0	1	0.00	0.00
P-R3.2	99.0	130.0	1	0.00	0.00

Active Scenario: 1.2.0 - Peak Hour Demand

Label	Demand (gpm)	Elevation (ft)	Hydraulic Grade (ft)	Pressure (psi)
FH-1	0.00	31.0	156.4	54.3
FH-2	0.00	31.0	156.4	54.2
FH-3	0.00	31.0	156.4	54.3
FH-4	0.00	28.3	156.3	55.4
FH-5	0.00	19.8	156.3	59.1
FH-6	0.00	12.6	156.3	62.1
FH-7	0.00	16.8	156.3	60.4
FH-8	0.00	11.7	156.3	62.5
FH-9	0.00	10.9	156.3	62.9
FH-10	0.00	15.7	156.3	60.8
FH-11	0.00	20.0	156.3	59.0
FH-12	0.00	17.9	156.3	59.9
FH-13	0.00	22.0	156.3	58.1
FH-14	0.00	22.0	156.3	58.1
FH-15	0.00	22.0	156.3	58.1
FH-16	0.00	22.0	156.3	58.1
J-1	0.00	31.0	156.5	54.3
J-2	0.00	31.0	156.4	54.3
J-3	0.00	30.0	156.3	54.7
J-4	0.00	31.0	156.4	54.2
J-5	0.00	31.0	156.4	54.3
J-6	0.00	32.0	156.4	53.8
J-7	0.00	22.0	156.3	58.1
J-8	0.00	16.8	156.3	60.4
J-9	0.00	28.3	156.3	55.4
J-10	0.00	22.0	156.3	58.1
J-11	0.00	19.8	156.3	59.1
J-12	0.00	12.6	156.3	62.2
J-13	0.00	12.0	156.3	62.4
J-14	0.00	11.7	156.3	62.5
J-15	0.00	10.0	156.3	63.3
J-16	0.00	10.9	156.3	62.9
J-17	0.00	15.7	156.3	60.8
J-18	0.00	18.0	156.3	59.8
J-19	0.00	20.0	156.3	59.0
J-20	0.00	22.0	156.3	58.1
J-21	0.00	17.9	156.3	59.9
J-22	0.00	22.0	156.3	58.1
J-23	0.00	22.0	156.3	58.1
J-24	0.00	22.0	156.3	58.1
J-25	0.00	22.0	156.3	58.1
J-26	0.00	22.0	156.3	58.1
J-27	0.00	22.0	156.3	58.1
J-BLDG 1	57.00	31.0	156.4	54.2
J-BLDG 2	4.90	15.4	156.3	60.9
J-BLDG 3	4.60	11.0	156.3	62.9
J-BLDG 4	24.00	10.2	156.3	63.2
J-BLDG 5	37.80	22.0	156.3	58.1
J-BLDG 6	57.20	22.0	156.3	58.1

Active Scenario: 1.2.0 - Peak Hour Demand

Label	Demand (gpm)	Elevation (ft)	Hydraulic Grade (ft)	Pressure (psi)
J-BLDG 7	60.00	14.8	156.3	61.2
J-BLDG 8	53.20	13.8	156.3	61.6
J-BLDG 9	21.60	11.5	156.3	62.6
J-BLDG 10	3.50	22.0	156.3	58.1
J-BLDG 11	3.10	21.0	156.3	58.5
J-BLDG 12	27.90	20.1	156.3	58.9
J-BLDG 13A	37.60	31.0	156.4	54.3
J-BLDG 13B	57.90	31.0	156.4	54.2
J-BLDG 14	11.40	31.0	156.4	54.3

Active Scenario: 1.3.0 - Max Day Demand + Fire Flow

Label	Satisfies Fire Flow Constraints?	Flow (Total Needed) (gpm)	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Velocity of Maximum Pipe (ft/s)	Pipe w/ Maximum Velocity
FH-1	True	2,000.00	51.3	12.77	P-F1
FH-2	True	2,000.00	50.9	12.77	P-F2
FH-3	True	2,000.00	51.0	12.77	P-F3
FH-4	True	2,000.00	52.2	12.77	P-F4
FH-5	True	2,000.00	55.2	12.77	P-F5
FH-6	True	2,000.00	58.1	12.77	P-F6
FH-7	True	2,000.00	55.7	12.77	P-F7
FH-8	True	2,000.00	58.1	12.77	P-F8
FH-9	True	2,000.00	57.1	12.77	P-F9
FH-10	True	2,000.00	54.9	12.77	P-F10
FH-11	True	2,000.00	53.7	12.77	P-F11
FH-12	True	2,000.00	55.1	12.77	P-F12
FH-13	True	2,000.00	53.5	12.77	P-F13
FH-14	True	2,000.00	53.9	12.77	P-F14
FH-15	True	2,000.00	53.9	12.77	P-F15
FH-16	True	2,000.00	53.3	12.77	P-F16
J-BLDG 1	True	2,025.80	51.4	7.52	P-5
J-BLDG 2	True	2,002.20	57.3	7.39	P-13
J-BLDG 3	True	2,002.10	58.2	9.22	P-25
J-BLDG 4	True	2,010.90	58.1	8.21	P-25
J-BLDG 5	True	2,017.10	54.7	8.99	P-42
J-BLDG 6	True	2,025.90	55.0	9.70	P-42
J-BLDG 7	True	2,027.20	57.1	8.32	P-19
J-BLDG 8	True	2,024.10	57.6	9.04	P-19
J-BLDG 9	True	2,009.80	57.3	7.45	P-25
J-BLDG 10	True	2,001.60	54.4	7.55	P-13
J-BLDG 11	True	2,001.40	54.4	7.81	P-24
J-BLDG 12	True	2,012.60	54.7	7.38	P-24
J-BLDG 13A	True	2,017.00	51.5	7.14	P-1
J-BLDG 13B	True	2,026.20	51.5	6.73	P-4
J-BLDG 14	True	2,005.20	51.5	8.34	P-9

Active Scenario: 1.3.1 - Redundancy Check #1 - Illinois St Not in Service (MDD + FF)

Label	Satisfies Fire Flow Constraints?	Flow (Total Needed) (gpm)	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Velocity of Maximum Pipe (ft/s)	Pipe w/ Maximum Velocity
FH-1	True	2,000.00	49.0	12.77	P-F1
FH-2	True	2,000.00	48.1	12.77	P-F2
FH-3	True	2,000.00	44.7	13.04	P-4
FH-4	True	2,000.00	49.0	12.77	P-F4
FH-5	True	2,000.00	52.3	12.77	P-F5
FH-6	True	2,000.00	55.4	12.77	P-F6
FH-7	True	2,000.00	53.2	12.77	P-F7
FH-8	True	2,000.00	55.5	12.77	P-F8
FH-9	True	2,000.00	54.4	12.77	P-F9
FH-10	True	2,000.00	52.2	12.77	P-F10
FH-11	True	2,000.00	51.0	12.77	P-F11
FH-12	True	2,000.00	52.4	12.77	P-F12
FH-13	True	2,000.00	50.9	12.77	P-F13
FH-14	True	2,000.00	51.4	12.77	P-F14
FH-15	True	2,000.00	51.2	12.77	P-F15
FH-16	True	2,000.00	51.1	12.77	P-F16
J-BLDG 1	True	2,025.80	48.3	7.59	P-9
J-BLDG 2	True	2,002.20	54.5	6.65	P-18
J-BLDG 3	True	2,002.10	55.6	9.22	P-25
J-BLDG 4	True	2,010.90	55.5	8.21	P-25
J-BLDG 5	True	2,017.10	51.9	8.10	P-42
J-BLDG 6	True	2,025.90	52.0	8.70	P-42
J-BLDG 7	True	2,027.20	54.4	8.32	P-19
J-BLDG 8	True	2,024.10	55.0	9.04	P-19
J-BLDG 9	True	2,009.80	54.6	7.45	P-25
J-BLDG 10	True	2,001.60	51.7	7.04	P-38
J-BLDG 11	True	2,001.40	51.7	7.87	P-24
J-BLDG 12	True	2,012.60	52.0	7.42	P-24
J-BLDG 13A	True	2,017.00	44.3	13.04	P-4
J-BLDG 13B	True	2,026.20	46.5	13.04	P-4
J-BLDG 14	True	2,005.20	49.1	9.68	P-9

Active Scenario: 1.3.2 - Redundancy Check #2 - 22nd St Not in Service (MDD + FF)

Label	Satisfies Fire Flow Constraints?	Flow (Total Needed) (gpm)	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Velocity of Maximum Pipe (ft/s)	Pipe w/ Maximum Velocity
FH-1	True	2,000.00	44.7	12.77	P-F1
FH-2	True	2,000.00	45.4	12.77	P-F2
FH-3	True	2,000.00	48.0	12.77	P-F3
FH-4	True	2,000.00	47.9	12.77	P-F4
FH-5	True	2,000.00	51.0	12.77	P-F5
FH-6	True	2,000.00	53.6	12.77	P-F6
FH-7	True	2,000.00	50.9	12.77	P-F7
FH-8	True	2,000.00	53.7	12.77	P-F8
FH-9	True	2,000.00	52.7	12.77	P-F9
FH-10	True	2,000.00	50.5	12.77	P-F10
FH-11	True	2,000.00	49.4	12.77	P-F11
FH-12	True	2,000.00	50.7	12.77	P-F12
FH-13	True	2,000.00	49.3	12.77	P-F13
FH-14	True	2,000.00	50.0	12.77	P-F14
FH-15	True	2,000.00	49.9	12.77	P-F15
FH-16	True	2,000.00	50.0	12.77	P-F16
J-BLDG 1	True	2,025.80	46.5	10.31	P-5
J-BLDG 2	True	2,002.20	52.9	9.22	P-1
J-BLDG 3	True	2,002.10	53.8	9.21	P-1
J-BLDG 4	True	2,010.90	53.7	9.21	P-1
J-BLDG 5	True	2,017.10	50.6	9.19	P-1
J-BLDG 6	True	2,025.90	50.8	9.22	P-1
J-BLDG 7	True	2,027.20	52.7	9.21	P-1
J-BLDG 8	True	2,024.10	53.2	9.21	P-1
J-BLDG 9	True	2,009.80	52.9	9.21	P-1
J-BLDG 10	True	2,001.60	50.4	9.07	P-1
J-BLDG 11	True	2,001.40	50.1	9.18	P-1
J-BLDG 12	True	2,012.60	50.3	9.19	P-1
J-BLDG 13A	True	2,017.00	48.8	10.17	P-1
J-BLDG 13B	True	2,026.20	48.0	9.73	P-1
J-BLDG 14	True	2,005.20	45.3	9.36	P-1

Active Scenario: 1.3.3 - Redundancy Check #3 - 23rd St Not in Service (MDD + FF)

Label	Satisfies Fire Flow Constraints?	Flow (Total Needed) (gpm)	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Velocity of Maximum Pipe (ft/s)	Pipe w/ Maximum Velocity
FH-1	True	2,000.00	50.7	12.77	P-F1
FH-2	True	2,000.00	50.2	12.77	P-F2
FH-3	True	2,000.00	50.6	12.77	P-F3
FH-4	True	2,000.00	51.2	12.77	P-F4
FH-5	True	2,000.00	54.0	12.77	P-F5
FH-6	True	2,000.00	56.8	12.77	P-F6
FH-7	True	2,000.00	54.7	12.77	P-F7
FH-8	True	2,000.00	56.9	12.77	P-F8
FH-9	True	2,000.00	55.8	12.77	P-F9
FH-10	True	2,000.00	53.5	12.77	P-F10
FH-11	True	2,000.00	52.2	12.77	P-F11
FH-12	True	2,000.00	53.7	12.77	P-F12
FH-13	True	2,000.00	51.9	12.77	P-F13
FH-14	True	2,000.00	51.6	12.77	P-F14
FH-15	True	2,000.00	52.1	12.77	P-F15
FH-16	True	2,000.00	49.7	12.77	P-43
J-BLDG 1	True	2,025.80	50.7	7.18	P-5
J-BLDG 2	True	2,002.20	56.0	9.15	P-13
J-BLDG 3	True	2,002.10	56.9	9.24	P-25
J-BLDG 4	True	2,010.90	56.8	8.79	P-13
J-BLDG 5	True	2,017.10	53.3	10.15	P-42
J-BLDG 6	True	2,025.90	53.6	10.86	P-42
J-BLDG 7	True	2,027.20	55.7	8.81	P-14
J-BLDG 8	True	2,024.10	56.3	9.17	P-19
J-BLDG 9	True	2,009.80	56.0	8.82	P-13
J-BLDG 10	True	2,001.60	52.4	9.57	P-14
J-BLDG 11	True	2,001.40	52.9	9.01	P-13
J-BLDG 12	True	2,012.60	53.2	8.97	P-13
J-BLDG 13A	True	2,017.00	51.1	7.66	P-1
J-BLDG 13B	True	2,026.20	50.9	7.01	P-1
J-BLDG 14	True	2,005.20	50.9	8.60	P-9

1.1.0 Static Pressures: Reservoirs

Label	Hydraulic Grade (ft)
R-1	152.1
R-2	152.1
R-3	153.7

22nd Street Hydrant Flow Curve

Element Details			
ID	184	Notes	
Label	22nd Street		

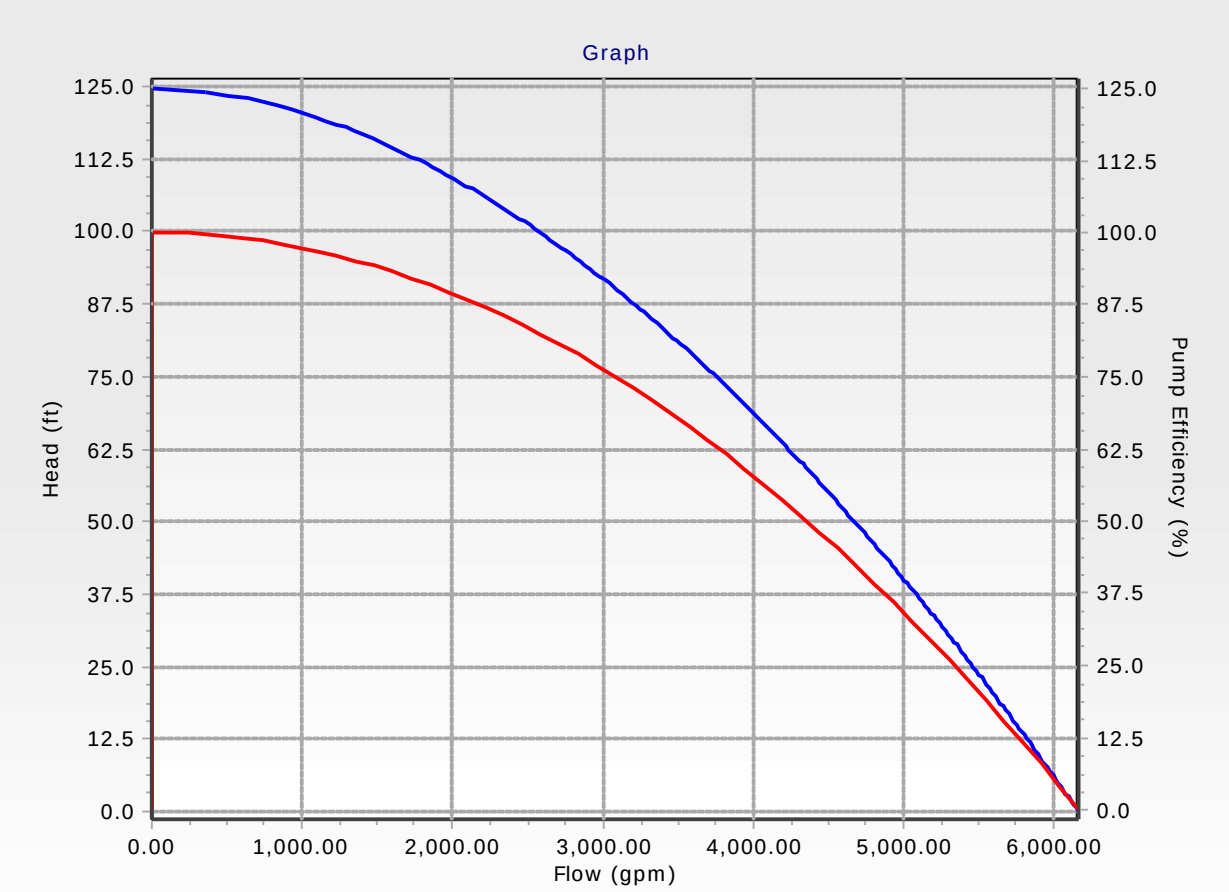
Pump Curve

Flow (gpm)	Head (ft)
0.00	124.7
1,040.00	120.1
2,974.00	92.4
3,979.00	69.3
4,803.00	46.2
5,520.00	23.1
6,166.00	0.0

Pump Efficiency Type			
Pump Efficiency Type	Best Efficiency Point	Motor Efficiency	100.0 %
BEP Efficiency	100.0 %	Is Variable Speed Drive?	False
BEP Flow	0.00 gpm		

Transient (Physical)			
Inertia (Pump and Motor)	0.000 lb·ft²	Specific Speed	SI=25, US=1280
Speed (Full)	0 rpm	Reverse Spin Allowed?	True

22nd Street Hydrant Flow Curve



23rd Street Hydrant Flow Curve

Element Details			
ID	185	Notes	
Label	23rd Street		

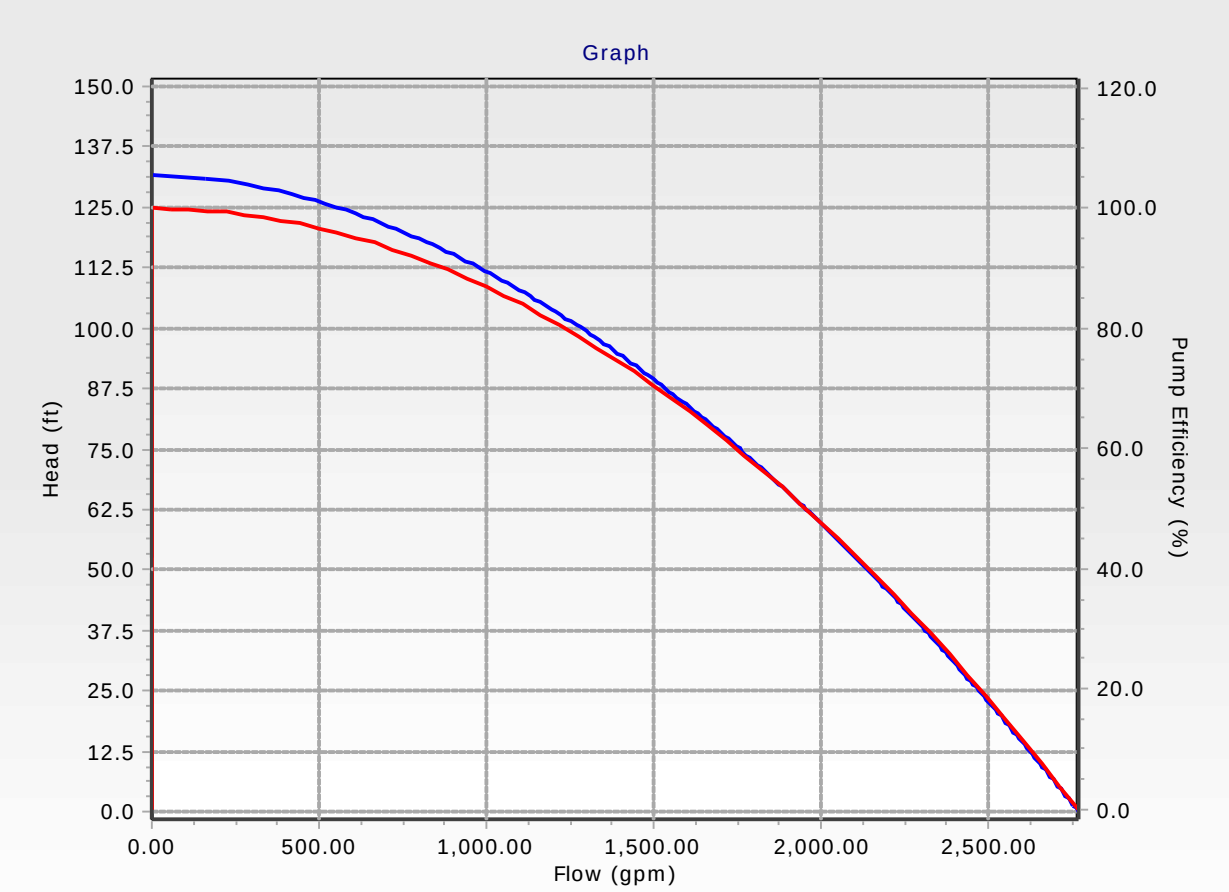
Pump Curve

Flow (gpm)	Head (ft)
0.00	131.7
960.00	113.2
1,442.00	92.4
1,852.00	69.3
2,195.00	46.2
2,498.00	23.1
2,772.00	0.0

Pump Efficiency Type			
Pump Efficiency Type	Best Efficiency Point	Motor Efficiency	100.0 %
BEP Efficiency	100.0 %	Is Variable Speed Drive?	False
BEP Flow	0.00 gpm		

Transient (Physical)			
Inertia (Pump and Motor)	0.000 lb·ft²	Specific Speed	SI=25, US=1280
Speed (Full)	0 rpm	Reverse Spin Allowed?	True

23rd Street Hydrant Flow Curve



Appendix D

Land Use Allocation by Block

Potrero Power Station - SF Allocation by Block

TARGET PROGRAM

Block	Residential SF	Office SF	Lab SF	Retail SF	PDR SF	Hotel SF	Community Facilities SF	Parking SF	Total SF	Residential Units	Parking Stalls	Class 1 Bike Parking	Class 2 Bike Parking
1	386,571	0	0	0	0	0	20,363	33,937	440,871	386	94	177	23
2	0	0	327,498	2,400	0	0	14,272	51,003	395,173	0	141	32	10
3	0	0	318,240	2,400	0	0	0	55,436	376,076	0	153	28	7
4	163,000	0	0	7,757	0	0	0	50,917	221,674	163	141	118	15
5	252,860	0	0	46,537	0	0	0	287,933	587,330	253	798	146	34
6	388,916	0	0	6,400	0	0	0	33,000	428,316	389	92	174	25
7	406,527	0	0	9,543	0	0	15,508	32,209	463,787	407	90	183	30
8	361,142	0	0	11,814	0	0	0	129,999	502,955	361	360	168	26
9	0	0	0	4,120	0	241,574	0	15,960	261,654	0	44	9	16
10	0	225,222	0	6,923	16,154	0	0	38,457	286,756	0	106	49	14
11	0	196,730	0	9,545	14,315	0	0	30,357	250,947	0	84	44	14
12	0	175,771	0	0	14,571	0	0	30,357	220,699	0	84	38	8
13A	256,160	0	0	0	0	0	0	20,037	276,197	256	55	139	13
13B	389,491	0	0	0	0	0	50,795	127,659	567,945	389	353	184	23
14	77,760	0	0	0	0	0	0	9,720	87,480	78	27	78	4
Total	**2,682,427**	**597,723**	**645,738**	**107,439**	**45,040**	**241,574**	**100,938**	**946,981**	**5,367,860**	**2,682**	**2,622**	**1,567**	**262**

FLEX BLOCKS

Block	Residential SF	Office SF	Lab SF	Retail SF	PDR SF	Hotel SF	Community Facilities SF	Parking SF	Total SF	Residential Units	Parking Stalls
04 (Residential)	163,000	0	0	7,757	0	0	0	50,917	221,674	163	141
04 (Office)	0	158,197	0	7,757	0	0	0	31,792	197,746	0	91
09 (Residential)	146,808	0	0	4,120	0	0	0	25,593	176,521	147	73
09 (Hotel)	0	0	0	4,120	0	241,574	0	15,960	261,654	0	44
12 (Residential)	185,141	0	0	0	14,571	0	0	30,357	230,069	185	84
12 (Office)	0	175,771	0	0	14,571	0	0	30,357	220,699	0	84
14 (Residential)	77,760	0	0	0	0	0	0	9,720	87,480	78	27
14 (Office)	0	58,320	0	0	0	0	0	9,720	68,040	0	27

MAX RESIDENTIAL / MIN OFFICE / MIN HOTEL

Block	Max Residential SF	Min Office SF	Lab SF	Retail SF	PDR SF	Min Hotel SF	Community Facilities SF	Parking SF	Total SF	Residential Units	Parking Stalls	Class 1 Bike Parking	Class 2 Bike Parking
1	386,571	0	0	0	0	0	20,363	33,937	440,871	386	95	177	23
2	0	0	327,498	2,400	0	0	14,272	51,003	395,173	0	143	32	10
3	0	0	318,240	2,400	0	0	0	55,436	376,076	0	156	28	7
4	163,000	0	0	7,757	0	0	0	50,917	221,674	163	143	118	15
5	252,860	0	0	46,537	0	0	0	287,933	587,330	253	810	146	34
6	388,916	0	0	6,400	0	0	0	33,000	428,316	389	93	174	25
7	406,527	0	0	9,543	0	0	15,508	32,209	463,787	407	91	183	30
8	361,142	0	0	11,814	0	0	0	129,999	502,955	361	366	168	26
9	146,808	0	0	4,120	0	0	0	25,593	176,521	147	72	113	12
10	0	225,222	0	6,923	16,154	0	0	38,457	286,756	0	108	49	14
11	0	196,730	0	9,545	14,315	0	0	30,357	250,947	0	85	44	14
12	185,141	0	0	0	14,571	0	0	30,357	230,069	185	85	124	12
13A	256,160	0	0	0	0	0	0	20,037	276,197	256	56	139	13
13B	389,491	0	0	0	0	0	50,795	127,659	567,945	389	359	184	23
14	77,760	0	0	0	0	0	0	9,720	87,480	78	27	78	4
Total	**3,014,376**	**421,952**	**645,738**	**107,439**	**45,040**	**0**	**100,938**	**956,614**	**5,292,097**	**3,014**	**2,690**	**1,757**	**262**

MIN RESIDENTIAL / MAX OFFICE / MAX HOTEL

Block	Min Residential SF	Max Office SF	Lab SF	Retail SF	PDR SF	Max Hotel SF	Community Facilities SF	Parking SF	Total SF	Residential Units	Parking Stalls	Class 1 Bike Parking	Class 2 Bike Parking
1	386,571	0	0	0	0	0	20,363	33,937	440,871	386	96	177	23
2	0	0	327,498	2,400	0	0	14,272	51,003	395,173	0	144	32	10
3	0	0	318,240	2,400	0	0	0	55,436	376,076	0	157	28	7
4	0	158,197	0	7,757	0	0	0	31,792	197,746	0	90	34	12
5	252,860	0	0	46,537	0	0	0	287,933	587,330	253	814	146	34
6	388,916	0	0	6,400	0	0	0	33,000	428,316	389	93	174	25
7	406,527	0	0	9,543	0	0	15,508	32,209	463,787	407	91	183	30
8	361,142	0	0	11,814	0	0	0	129,999	502,955	361	367	168	26
9	0	0	0	4,120	0	241,574	0	15,960	261,654	0	45	9	16
10	0	225,222	0	6,923	16,154	0	0	38,457	286,756	0	109	49	14
11	0	196,730	0	9,545	14,315	0	0	30,357	250,947	0	86	44	14
12	0	175,771	0	0	14,571	0	0	30,357	220,699	0	86	38	8
13A	256,160	0	0	0	0	0	0	20,037	276,197	256	57	139	13
13B	389,491	0	0	0	0	0	50,795	127,659	567,945	389	361	184	23
14	0	58,320	0	0	0	0	0	9,720	68,040	0	27	12	4
Total	**2,441,667**	**814,240**	**645,738**	**107,439**	**45,040**	**241,574**	**100,938**	**927,856**	**5,324,492**	**2,441**	**2,622**	**1,417**	**259**

Appendix E

Demand Calculations by Block

Potrero Power Station Low Pressure Water System Demand Calculations
6/5/2018
Appendix E
Maximum Residential Scenario

	Water Demand From District Calculations (gpd)
Total Commercial	**10,515**
Total Residential	**240,440**
Total	**250,955**

	Area (gsf)	Adjusted Water Demand by Land Use (gpd)
Hotel	-	-
Office	421,952	3,247
Laboratory	645,738	4,969
Retail	107,439	827
PDR	45,040	347
Community Facilities	100,938	777
Assembly Space	25,000	348
Total Commercial	**1,321,107**	**10,515**
Total Residential	**3,014,376**	**240,440**
Total	**4,335,483**	**250,955**

Potrero Power Station Low Pressure Water System Demand Calculations
6/5/2018
Appendix E - Continued
Maximum Residential Scenario

Block	Residential (gsf)	Office (gsf)	Lab (gsf)	Retail (gsf)	PDR (gsf)	Hotel (gsf)	Community Facilities (gsf)	Assembly Space (gsf)
1	386,571						20,363	
2			327,498	2,400			14,272	
3			318,240	2,400				
4	163,000			7,757				
5	252,860			46,537				
6	388,916			6,400				
7	406,527			9,543			15,508	
8	361,142			11,814				
9	146,808			4,120				
10		225,222		6,923	16,154			
11		196,730		9,545	14,315			
12	185,141				14,571			25,000
13A	256,160							
13B	389,491						50,795	
14	77,760							
Total	**3,014,376**	**421,952**	**645,738**	**107,439**	**45,040**	**0**	**100,938**	**25,000**

Block	Residential (gpm)	Office (gpm)	Lab (gpm)	Retail (gpm)	PDR (gpm)	Hotel (gpm)	Community Facilities (gpm)	Assembly Space (gsf)	ADD (gpm)	MDD (gpm)	PHD (gpm)
1	21.4						0.1		21.5	25.8	57.0
2			1.8	0.0			0.1		1.8	2.2	4.9
3			1.7	0.0					1.7	2.1	4.5
4	9.0			0.0					9.1	10.9	24.0
5	14.0			0.2					14.3	17.1	37.8
6	21.5			0.0					21.6	25.9	57.2
7	22.5			0.1			0.1		22.7	27.2	60.0
8	20.0			0.1					20.1	24.1	53.2
9	8.1			0.0					8.2	9.8	21.6
10		1.2		0.0	0.1				1.3	1.6	3.5
11		1.1		0.1	0.1				1.2	1.4	3.1
12	10.3				0.1			0.2	10.5	12.6	27.9
13A	14.2								14.2	17.0	37.6
13B	21.6						0.3		21.8	26.2	57.9
14	4.3								4.3	5.2	11.4
Total	**167.0**	**2.3**	**3.5**	**0.6**	**0.2**	**0.0**	**0.5**	**0.2**	**174.2**	**209.1**	**461.7**

Appendix F

Hydrant Flow Test Results

SAN FRANCISCO FIRE DEPARTMENT
BUREAU OF FIRE PREVENTION
PLAN CHECK DIVISION/WATER FLOW
1660 MISSION STREET, 4TH FLOOR
SAN FRANCISCO, CA. 94103
FAX # 415-575-6933
Email: WaterflowSFFD@sfgov.org

REQUEST FOR WATER FLOW INFORMATION

DATE: 12 / 20 / 17 **REQUEST IS FOR:** ☒ **FIRE FLOW** ☐ **SPRINKLER DESIGN**

CONTACT PERSON: CHRISTIAN KESLER **ADDRESS:** 1358 BLUE OAKS BLVD, SUITE 200, ROSEVILLE, CA 95678

PHONE NO. (916) 791 / 1188 **FAX NO.** (916) 791 / 0399

EMAIL : CHRISTIAN@COLEMAN-ENG.COM

OWNER'S NAME: ASSOCIATE CAPITAL **PHONE #** (415) 796 / 8945

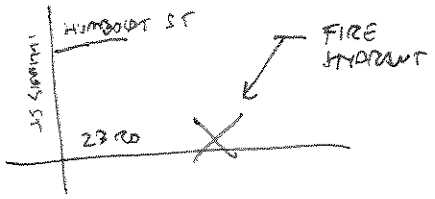
ADDRESS FOR WATER FLOW INFORMATION:

435
~~435~~ 23RD ST, SAN FRANCISCO CA 94107

CROSS STREETS (*BOTH ARE REQUIRED*):

23RD ST / NEAR ILLINOIS ST

PROVIDE SKETCH HERE:



SPECIFY STREET FOR POINT OF CONNECTION: 23RD ST

OCCUPANCY (CIRCLE ONE): R3 R2 LIVE/WORK (COMMERCIAL) OTHER_____

HAZARD CLASSIFICATION: (LIGHT) ORD 1 ORD 2 EXT 1 EXT 2 OTHER_____

CAR-STACKER: YES (NO)

NUMBER OF STORIES: N/A **HEIGHT OF BLDG.:** N/A **FT.**

EMAILED 1-18-18

- SUBMIT FORM WITH A **$125.00** CHECK MADE PAYABLE TO 'S.F.F.D.'
- REQUESTS REQUIRING A FIELD FLOW TEST WILL BE NOTIFIED BY FAX OR EMAIL, AND AN ADDITIONAL FEE OF **$250.00** WILL BE NECESSARY.
- WATER FLOW INFORMATION WILL BE RETURNED BY FAX, MAIL, OR EMAIL.
- INCOMPLETE FORMS **WILL NOT** BE PROCESSED.
- PLEASE ALLOW 7-14 WORKING DAYS FOR PROCESSING.

Field Flow Test required.
Payment by check only, made payable to SFFD for $250.00

**********Official use only**********

Flow data provided by: Deen Date Forwarded 2-2-18

Flow data: **FIELD FLOW TEST** X **RECORDS ANALYSIS**_____

STATIC 57 **PSI**
RESIDUAL 49 **PSI**
FLOW 960 **GPM**
8 " **MAIN on** 23rd St.

Gate Page 130

IF YOU HAVE ANY QUESTIONS PLEASE CONTACT INSPECTOR DEEN @ 415-558-6361 **Rev. 09/01/2017**

SAN FRANCISCO FIRE DEPARTMENT
BUREAU OF FIRE PREVENTION
PLAN CHECK DIVISION/WATER FLOW
1660 MISSION STREET, 4TH FLOOR
SAN FRANCISCO, CA. 94103
FAX # 415-575-6933
Email: WaterflowSFFD@sfgov.org

REQUEST FOR WATER FLOW INFORMATION

DATE: 12/20/17 **REQUEST IS FOR:** ☒ FIRE FLOW ☐ SPRINKLER DESIGN

CONTACT PERSON: CHRISTIAN KESLER **ADDRESS:** 1358 BLUE OAKS BLVD, SUITE 200 ROSEVILLE, CA 95678

PHONE NO. (916) 791 / 1188 **FAX NO.** (916) 791 / 0399

EMAIL : CHRISTIAN@COLEMAN-ENG.COM

OWNER'S NAME: PORT OF SAN FRANCISCO **PHONE #** (415) 274 / 0400

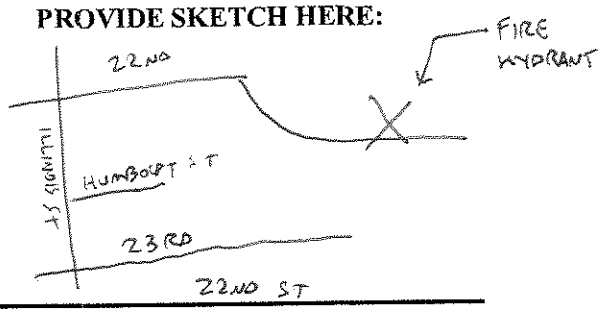
ADDRESS FOR WATER FLOW INFORMATION:

420 22ND ST, SAN FRANCISCO, CA 94107

CROSS STREETS (*BOTH ARE REQUIRED*):

22ND ST / NEAR ILLINOIS ST

PROVIDE SKETCH HERE:



SPECIFY STREET FOR POINT OF CONNECTION: 22ND ST

OCCUPANCY (CIRCLE ONE): R3 R2 LIVE/WORK (COMMERCIAL) **OTHER**_____

HAZARD CLASSIFICATION: (LIGHT) ORD 1 ORD 2 EXT 1 EXT 2 **OTHER**_____

CAR-STACKER: YES (NO)

EMAILED 1-18-18

NUMBER OF STORIES: N/A **HEIGHT OF BLDG.:** N/A **FT.**

- SUBMIT FORM WITH A **$125.00** CHECK MADE PAYABLE TO 'S.F.F.D.'
- REQUESTS REQUIRING A FIELD FLOW TEST WILL BE NOTIFIED BY FAX OR EMAIL, AND AN ADDITIONAL FEE OF **$250.00** WILL BE NECESSARY.
- WATER FLOW INFORMATION WILL BE RETURNED BY FAX, MAIL, OR EMAIL.
- INCOMPLETE FORMS **WILL NOT** BE PROCESSED.
- PLEASE ALLOW 7-14 WORKING DAYS FOR PROCESSING.

Field Flow Test required.
Payment by check only, made payable to SFFD for $250.00

**********Official use only**********

Flow data provided by: DUNN Date Forwarded 3/30/18

Flow data: **FIELD FLOW TEST** X

RECORDS ANALYSIS_____

STATIC 54 **PSI**

RESIDUAL 52 **PSI**

FLOW 1040 **GPM**

Gate Page 130

8 " **MAIN on** 22ND STREET

IF YOU HAVE ANY QUESTIONS PLEASE CONTACT INSPECTOR DEEN @ 415-558-6361 **Rev. 09/01/2017**

Christian Kesler

From: WaterFlowSFFD, FIR (FIR) <WaterFlowSFFD@SFGOV1.onmicrosoft.com>
Sent: Friday, February 2, 2018 10:04 AM
To: Christian Kesler
Subject: RE: Water Flow for 435 23rd St.

Thanks… the map is great. I will use the hydrant on Illinois for the pressures and the hydrant (which we knew about) on 22nd Street. We just couldn't get access to a second hydrant behind the fence to complete the flow test. We will go out next Wednesday and do this test. Thanks…

Larry J. Deen
Inspector
Bureau of Fire Prevention
San Francisco Fire Department
1660 Mission Street
San Francisco, CA 94103

Water Flow Desk (415) 558-6361
Direct (415) 865-5734

From: Christian Kesler [mailto:christian@coleman-eng.com]
Sent: Friday, February 02, 2018 9:05 AM
To: WaterFlowSFFD, FIR (FIR)
Subject: RE: Water Flow for 435 23rd St.

Inspector Deen,

It looks like there is another hydrant on 22nd street that is not behind a fence or on private property. Is it possible to test this hydrant instead? Please see the attached map for the location of the hydrant to get the static and residual and also the pitot location.

Thanks,

Christian Kesler

COLEMAN ENGINEERING
1358 Blue Oaks Blvd
Suite 200

Roseville, CA 95678

916-791-1188

From: WaterFlowSFFD, FIR (FIR) [mailto:WaterFlowSFFD@SFGOV1.onmicrosoft.com]
Sent: Friday, February 2, 2018 8:31 AM
To: Christian Kesler <christian@coleman-eng.com>
Subject: Water Flow for 435 23rd St.

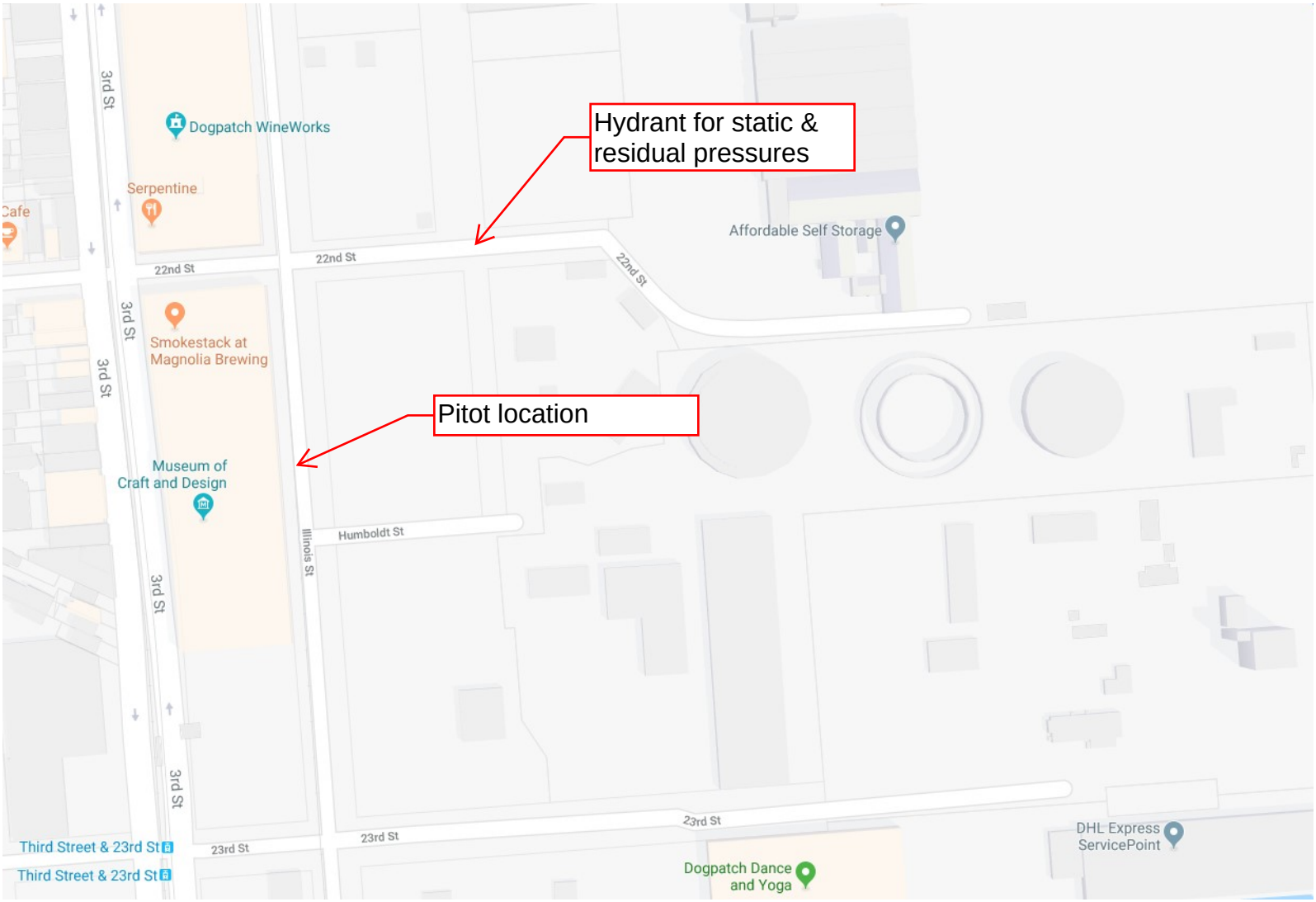
Dear Waterflow Info Requester:

A *Water Flow Field Flow Test* was conducted for the property you requested. The results are attached.

We were able to obtain this flow because the hydrants are on 23rd Street and not on private property. We were not able to get the flow for 420 22nd Street as the hydrants for this building are on a private hydrant system, on private property, and locked behind a chain link fence. In order for us to conduct this field flow test, we will need access to the hydrants, and, if possible, a map indicating exactly which hydrant you want us to use for the pitot flow and which hydrant to get the static & residual pressures from. Please let me know how we can accomplish this filed flow test. Thanks…

Larry J. Deen
Inspector
Bureau of Fire Prevention
San Francisco Fire Department
1660 Mission Street
San Francisco, CA 94103

Water Flow Desk (415) 558-6361
Direct (415) 865-5734


Hydrant for static & residual pressures
Pitot location
3rd St
Dogpatch WineWorks
Serpentine
Cafe
22nd St
Affordable Self Storage
Smokestack at Magnolia Brewing
Museum of Craft and Design
Humboldt St
Illinois St
23rd St
Third Street & 23rd St
DHL Express ServicePoint
Dogpatch Dance and Yoga

Hydrant Location		22nd Street
Static	54	psi
Residual	52	psi
Flow	1040	gpm

$Q_R = Q_F \times (H_R / H_F)^{0.54}$

Where:

Q_R = Rated Capacity at 20 psi (in GPM) {The answer}

Q_F = Total test flow (The GPM measured from the Hose Monster, Pitotless Nozzle, or pitot. Use a flow chart to convert flow pressure to GPM)

H_R = Static Pressure minus 20 psi

H_F = Static Pressure minus Residual Pressure

Flow at psi	20	psi
Q_F	1040	gpm
H_R	34	psi
H_F	2	psi
Q_R	**4803**	**gpm**

Flow Curve

gpm	psi	ft
0	54	124.74
1040	52	120.12
2974	40	92.4
3979	30	69.3
4803	20	46.2
5520	10	23.1
6166	0	0

Hydrant Location		23rd Street
Static	57	psi
Residual	49	psi
Flow	960	gpm

$Q_R = Q_F \times (H_R / H_F)^{0.54}$

Where:

Q_R = Rated Capacity at 20 psi (in GPM) {The answer}

Q_F = Total test flow (The GPM measured from the Hose Monster, Pitotless Nozzle, or pitot. Use a flow chart to convert flow pressure to GPM)

H_R = Static Pressure minus 20 psi

H_F = Static Pressure minus Residual Pressure

Flow at psi	20	psi
Q_F	960	gpm
H_R	37	psi
H_F	8	psi
Q_R	**2195**	**gpm**

Flow Curve

gpm	psi	ft
0	57	131.67
960	49	113.19
1442	40	92.4
1852	30	69.3
2195	20	46.2
2498	10	23.1
2772	0	0

Appendix G

Proposed Fire Hydrant Locations

BLOCK 13A	
PRIMARY LAND USE	RESIDENTIAL
GROSS AREA (SF)	256,160
RESIDENTIAL UNITS	256
CONSTRUCTION TYPE	TYPE III
HEIGHT	85'

BLOCK 13B	
PRIMARY LAND USE	RESIDENTIAL
GROSS AREA (SF)	188,370
RESIDENTIAL UNITS	188
CONSTRUCTION TYPE	TYPE III
HEIGHT	85'

BLOCK 13C	
PRIMARY LAND USE	RESIDENTIAL
GROSS AREA (SF)	172,070
RESIDENTIAL UNITS	172
CONSTRUCTION TYPE	TYPE III
HEIGHT	85'

BLOCK 14	
PRIMARY LAND USE	RESIDENTIAL
GROSS AREA (SF)	77,760
RESIDENTIAL UNITS	78
CONSTRUCTION TYPE	TYPE III
HEIGHT	90'

BLOCK 1A	
PRIMARY LAND USE	RESIDENTIAL
GROSS AREA (SF)	249,640
RESIDENTIAL UNITS	250
CONSTRUCTION TYPE	TYPE I
HEIGHT	180'

BLOCK 1B	
PRIMARY LAND USE	RESIDENTIAL
GROSS AREA (SF)	123,240
RESIDENTIAL UNITS	123
CONSTRUCTION TYPE	TYPE III
HEIGHT	85'

BLOCK 2	
PRIMARY LAND USE	RESEARCH & DEVELOPMENT
GROSS AREA (SF)	327,500
RESIDENTIAL UNITS	0
CONSTRUCTION TYPE	TYPE I
HEIGHT	125'

BLOCK 3	
PRIMARY LAND USE	RESEARCH & DEVELOPMENT
GROSS AREA (SF)	318,240
RESIDENTIAL UNITS	0
CONSTRUCTION TYPE	TYPE I
HEIGHT	125'

BLOCK 4	
PRIMARY LAND USE	RESIDENTIAL
GROSS AREA (SF)	163,000
RESIDENTIAL UNITS	163
CONSTRUCTION TYPE	TYPE III
HEIGHT	85'/65'

BLOCK 5A	
PRIMARY LAND USE	RESIDENTIAL
GROSS AREA (SF)	246,110
RESIDENTIAL UNITS	246
CONSTRUCTION TYPE	TYPE I
HEIGHT	180'

BLOCK 5B	
PRIMARY LAND USE	GARAGE
GROSS AREA (SF)	236,400
RESIDENTIAL UNITS	0
CONSTRUCTION TYPE	TYPE I
HEIGHT	90'

BLOCK 6	
PRIMARY LAND USE	RESIDENTIAL
GROSS AREA (SF)	388,920
RESIDENTIAL UNITS	389
CONSTRUCTION TYPE	TYPE I
HEIGHT	300'

BLOCK 7A	
PRIMARY LAND USE	RESIDENTIAL
GROSS AREA (SF)	111,660
RESIDENTIAL UNITS	111
CONSTRUCTION TYPE	TYPE III
HEIGHT	85'

BLOCK 7B	
PRIMARY LAND USE	RESIDENTIAL
GROSS AREA (SF)	275,950
RESIDENTIAL UNITS	276
CONSTRUCTION TYPE	TYPE I
HEIGHT	180'

BLOCK 8	
PRIMARY LAND USE	RESIDENTIAL
GROSS AREA (SF)	361,140
RESIDENTIAL UNITS	361
CONSTRUCTION TYPE	TYPE I/III
HEIGHT	125'/85'

BLOCK 9	
PRIMARY LAND USE	HOTEL
GROSS AREA (SF)	241,570
RESIDENTIAL UNITS	220 ROOMS
CONSTRUCTION TYPE	TYPE V
HEIGHT	65'

BLOCK 10	
PRIMARY LAND USE	OFFICE
GROSS AREA (SF)	225,220
RESIDENTIAL UNITS	0
CONSTRUCTION TYPE	TYPE I
HEIGHT	125'

BLOCK 11	
PRIMARY LAND USE	OFFICE
GROSS AREA (SF)	196,730
RESIDENTIAL UNITS	0
CONSTRUCTION TYPE	TYPE I
HEIGHT	125'

BLOCK 12	
PRIMARY LAND USE	OFFICE
GROSS AREA (SF)	175,770
RESIDENTIAL UNITS	0
CONSTRUCTION TYPE	TYPE I
HEIGHT	95'

22ND STREET
23RD STREET
GEORGIA STREET
ILLINOIS STREET
LOUISIANA ST.
CRAIG LANE
HUMBOLDT STREET
HUMBOLDT ST PLAZA
MARYLAND STREET
DELAWARE STREET
PIER 70
150' DEAD END
116' DEAD END
138' FROM CURB
127' FROM CURB
PG&E SWITCH YARD
PG&E SUBSTATION
POWER STATION PARK
UNIT 3
STORAGE
DHL
TRANSBAY CABLE
POTRERO POINT PARK
SAN FRANCISCO BAY

LEGEND

- FIRE ACCESS ROAD
- POTENTIAL FIRE ACCESS ROAD IF REQUIRED BY CFC 2016
- BUILDING LOBBY LOCATIONS
- LOW PRESSURE WATER FIRE HYDRANT
- AUXILIARY WATER SUPPLY SYSTEM FIRE HYDRANT

DRAFT

FIRE ACCESS PLAN

POTRERO POWER STATION

CITY OF SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

0' 50' 150' 200'

SCALE: 1" = 50' DATE: MAY 8, 2018

Carlson, Barbee & Gibson, Inc.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
www.cbandg.com
SAN RAMON, CALIFORNIA (925) 866 - 0322
SACRAMENTO, CALIFORNIA (916) 375 - 1877

5/8/2018 11:54 AM

F:\27\7-000\ACAD\Exhibit\Exb_FIRE ACCESS.DWG

PUBLIC UTILITIES COMMISSION

City and County of San Francisco

RESOLUTION NO. **19-0161**

WHEREAS, Under the California Environmental Quality Act (CEQA) and State of California Water Code (Section 10910(g)(1)), the San Francisco Public Utilities Commission (SFPUC) is required to prepare and approve a Water Supply Assessment (WSA) for the cumulative water demands presented by the proposed Potrero Power Station Project, which would redevelop the former Potrero Power Plant site located along San Francisco's Central Waterfront into a mixed-use development, including residential; commercial; hotel; community facility; production, distribution, and repair; retail and other active uses; and parking; as well as public access areas, open spaces, and a grid of public streets and private alleys; and involve the construction of up to approximately 5.4 million gross square feet; and

WHEREAS, The Potrero Power Station Project is required to comply with the City's Non-potable Water Ordinance, Article 12C of the San Francisco Health Code, and as a result, the Project will offset its potable water use through the use of alternate water sources; and

WHEREAS, A WSA is an informational document that assesses the adequacy of water supplies to serve a proposed project and is required to be prepared as part of the CEQA environmental review process; and

WHEREAS, Approval of a WSA as an informational document is not considered an approval action as defined in Section 15378 of the CEQA Guidelines; and

WHEREAS, A WSA must be approved at a public meeting by the governing body of the public water supplier that would serve the proposed project; and

WHEREAS, On April 24, 2018, by Resolution No. 18-0069, this Commission approved a WSA for the Potrero Power Station Project, which concluded that the SFPUC has adequate water supplies to meet the proposed project's water demands through 2040; and

WHEREAS, Following this Commission's approval of the WSA,on December 12, 2018, the State Water Resources Control Board adopted an amendment to the Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta Estuary (i.e., Bay-Delta Plan Amendment), which, if implemented in the future, would affect the Hetch Hetchy Regional Water System supply and the SFPUC's ability to meet the projected demands of existing and future retail customers, including the proposed project; and

WHEREAS, Multiple lawsuits are pending challenging the Bay-Delta Plan Amendment, and the City is a party to one of those suits; and

WHEREAS, In accordance with the State Water Resources Control Board's instruction, on March 1, 2019, the SFPUC, in partnership with other key stakeholders, submitted a proposed "voluntary agreement" (March 1st Proposed Voluntary Agreement) for the State's consideration as a substitute or replacement of the Bay-Delta Plan Amendment; and

WHEREAS, On March 26, 2019 by Resolution No. 19-0057, this Commission endorsed the SFPUC's continued participation in the voluntary agreement negotiation process and stated

its intent that the terms of any final voluntary agreement would improve the health of the fisheries and maintain the reliability of its water supply including maintenance of its level of service (LOS) goal of no more than 20% system-wide rationing; and

WHEREAS, The voluntary agreement negotiation process is ongoing and in a July 1, 2019 written status report, the California Secretary for Environmental Protection and California Secretary for Natural Resources stated that the collective State agencies should be able "to determine the adequacy" of the various proposed voluntary agreements, including the proposed Tuolumne Voluntary Agreement, by October 15, 2019; and

WHEREAS, Because implementation of the Bay-Delta Plan Amendment or an alternative Voluntary Agreement is uncertain at this time for several reasons outlined in the attached Revised WSA, the SFPUC staff prepared the attached Revised WSA for the proposed Potrero Power Station Project, analyzing water supply and demand under three scenarios: (1) No implementation of the Bay-Delta Plan Amendment or the March 1st Proposed Voluntary Agreement ("Scenario 1"), (2) Implementation of the March 1st Proposed Voluntary Agreement ("Scenario 2"), and (3) Implementation of the Bay-Delta Plan Amendment ("Scenario 3"); and

WHEREAS, The Revised WSA concludes that the SFPUC's total projected water supplies through 2040 will (1) meet the demands of the proposed project in normal years under all three scenarios, (2) meet the demands of the proposed project in dry years without rationing beyond the SFPUC's LOS goal of 20% system-wide rationing under Scenario 1, (3) meet the demands of the proposed project in dry years but require rationing closer to the LOS goal under Scenario 2, and (4) not reliably meet the demands of the proposed project without rationing at a level greater than that required to achieve the LOS goal under Scenario 3; and

WHEREAS, The Revised WSA is intended to supersede the previous WSA approved by the Commission on April 24, 2018 for the proposed Project; now, therefore, be it

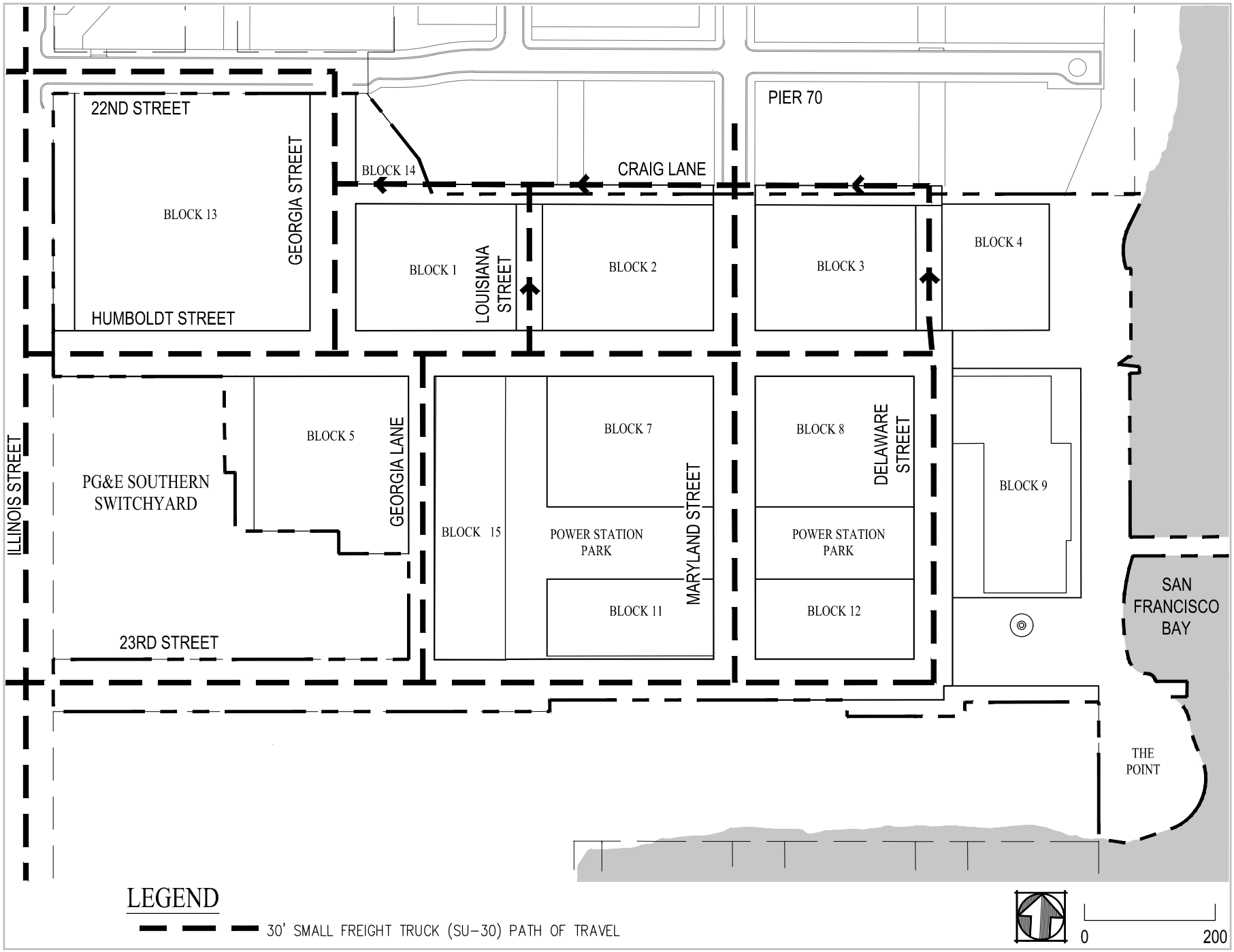
RESOLVED, This Commission approves the attached Revised Water Supply Assessment for the proposed Potrero Power Station Project pursuant to the State of California Water Code Section 10910(g).

I hereby certify that the foregoing resolution was adopted by the Public Utilities Commission at its meeting of August 13, 2019.

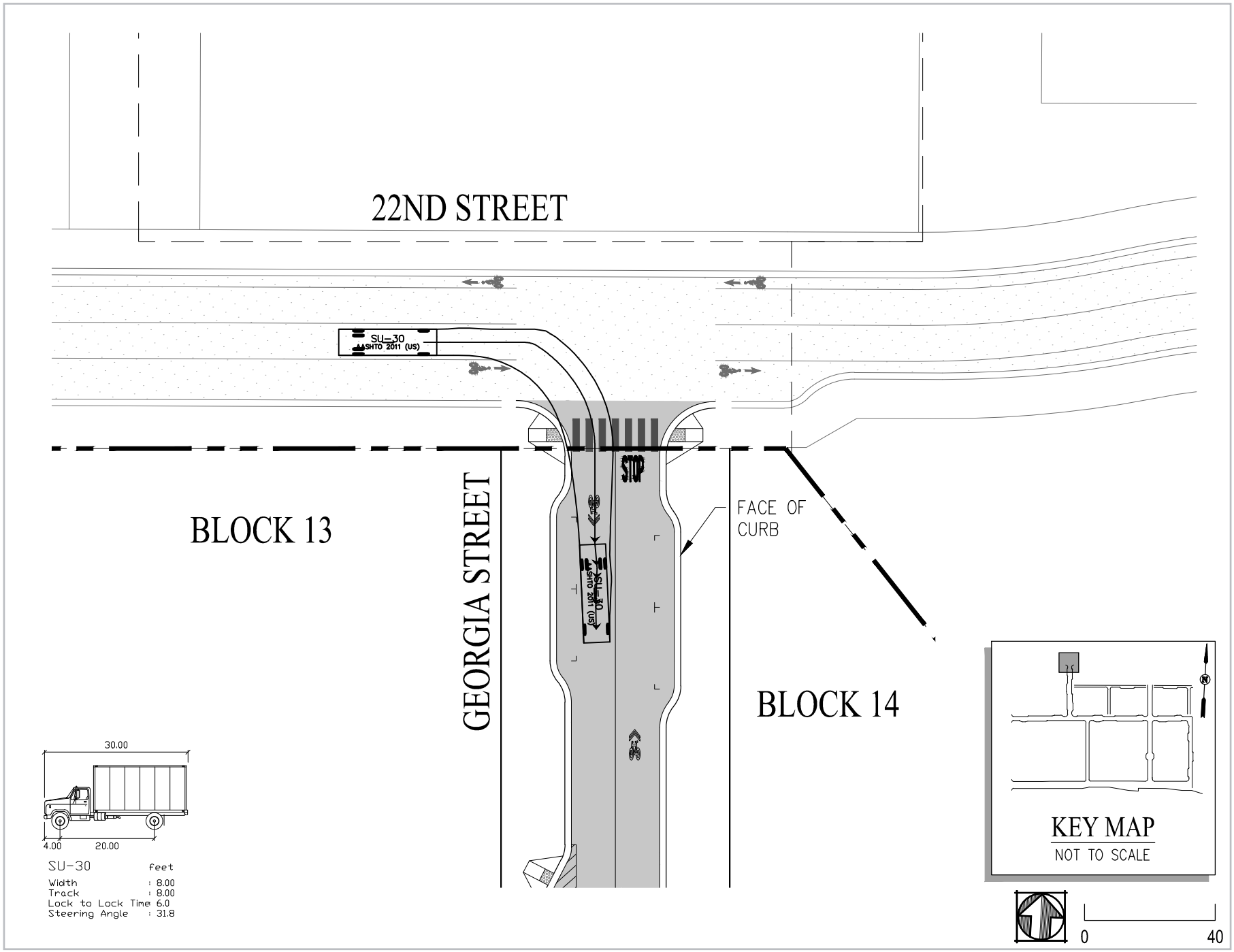
Donna Wood

Secretary, Public Utilities Commission

Appendix E
Large Vehicle Movements



Appendix E Large Vehicle Movements – SU 30



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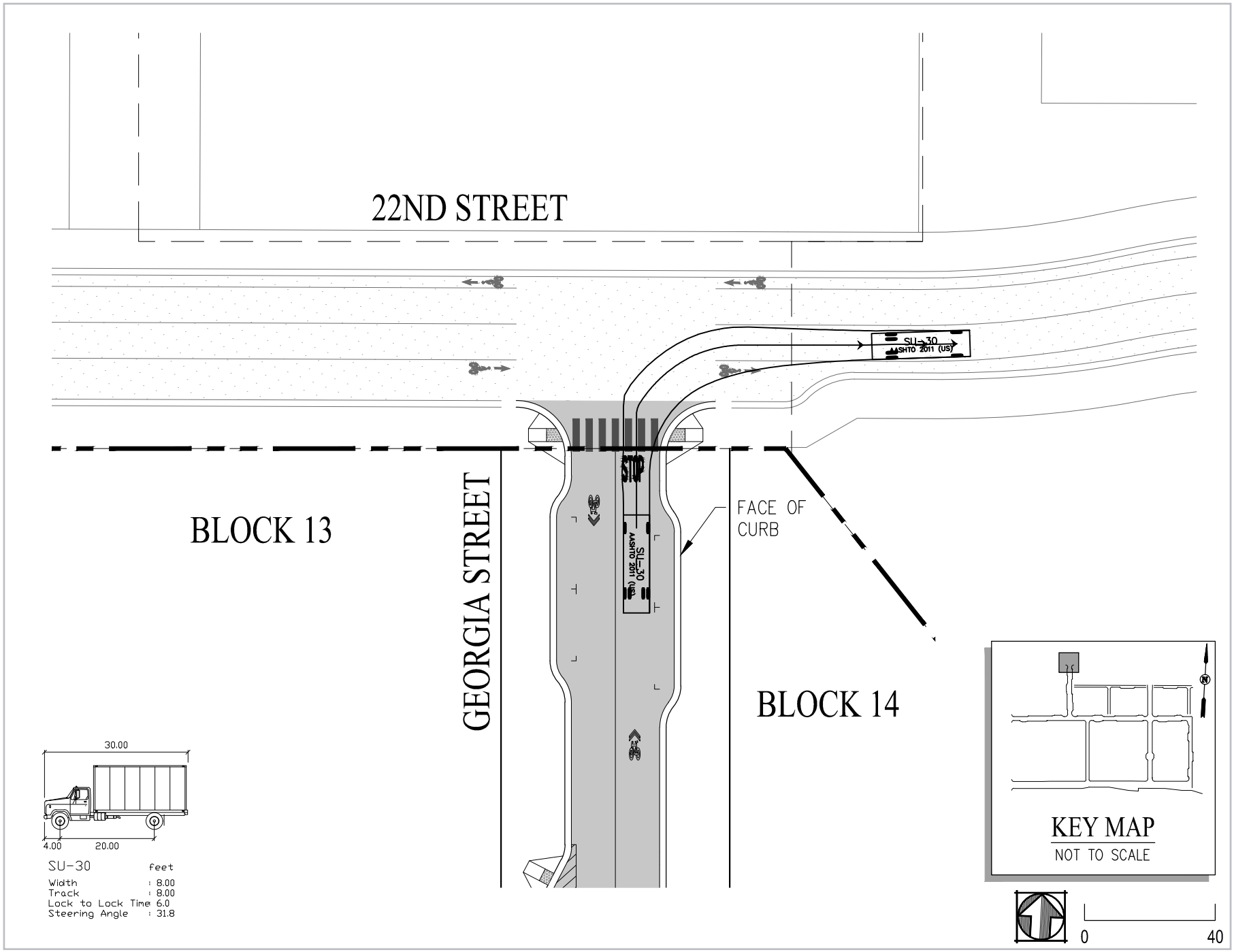

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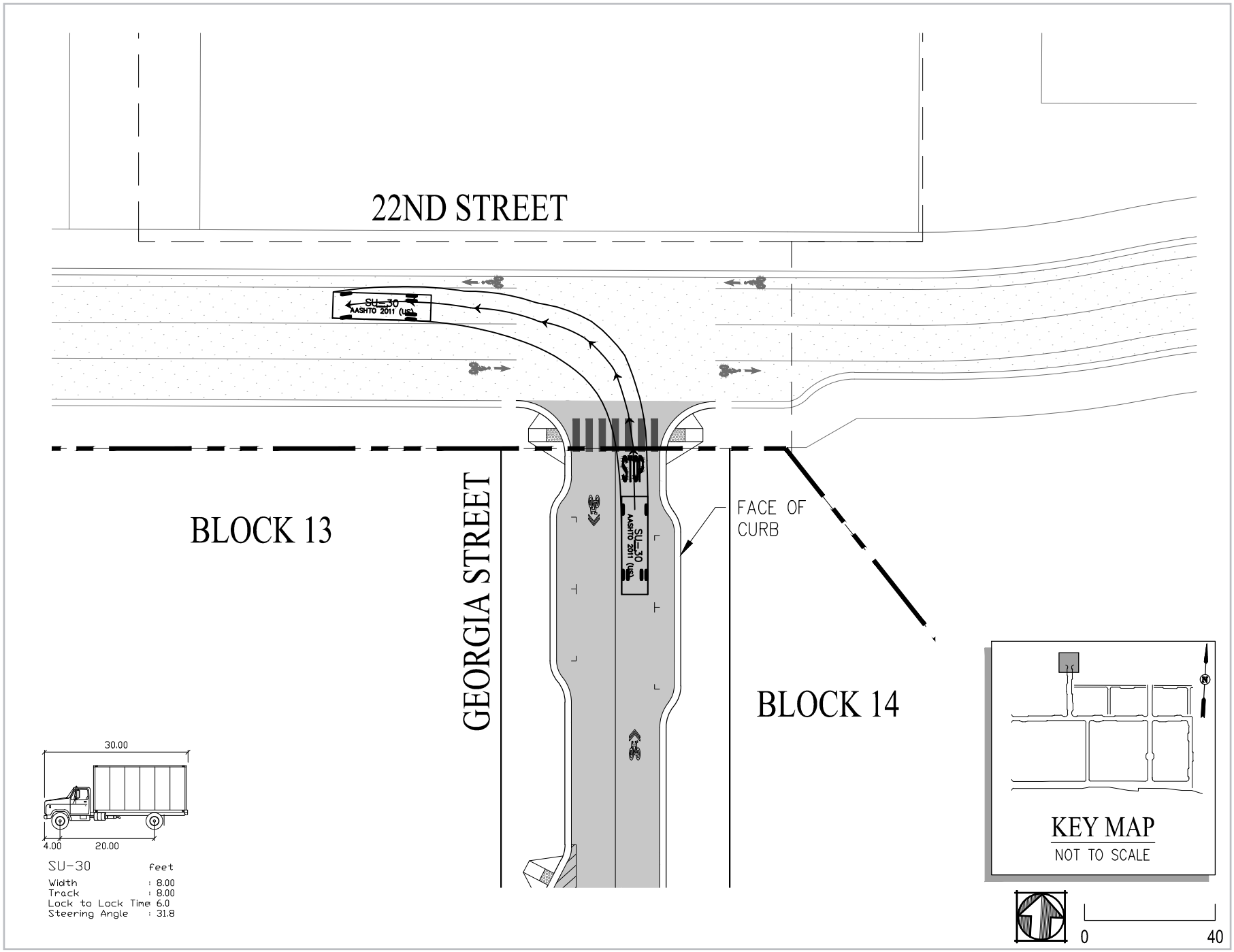

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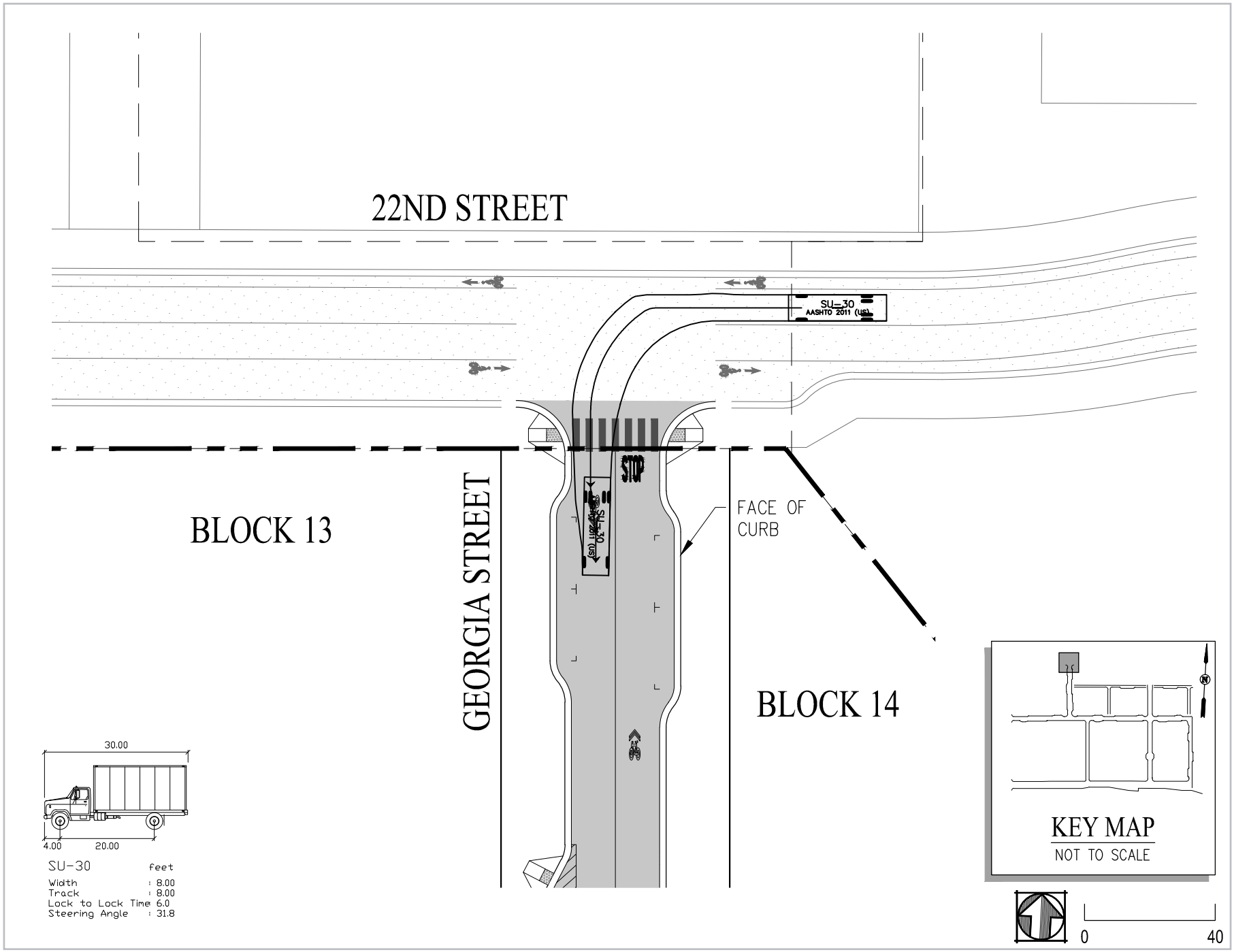

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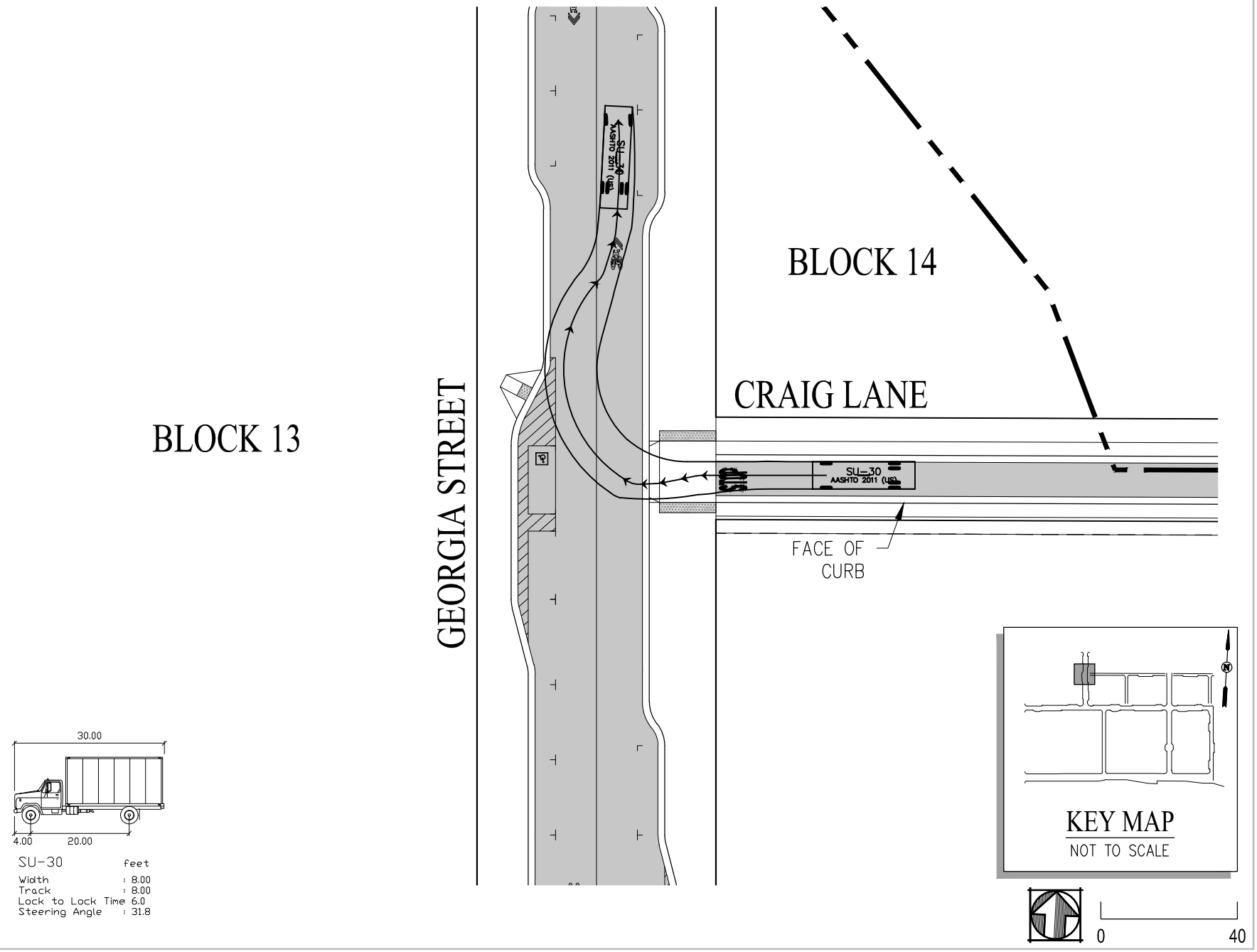
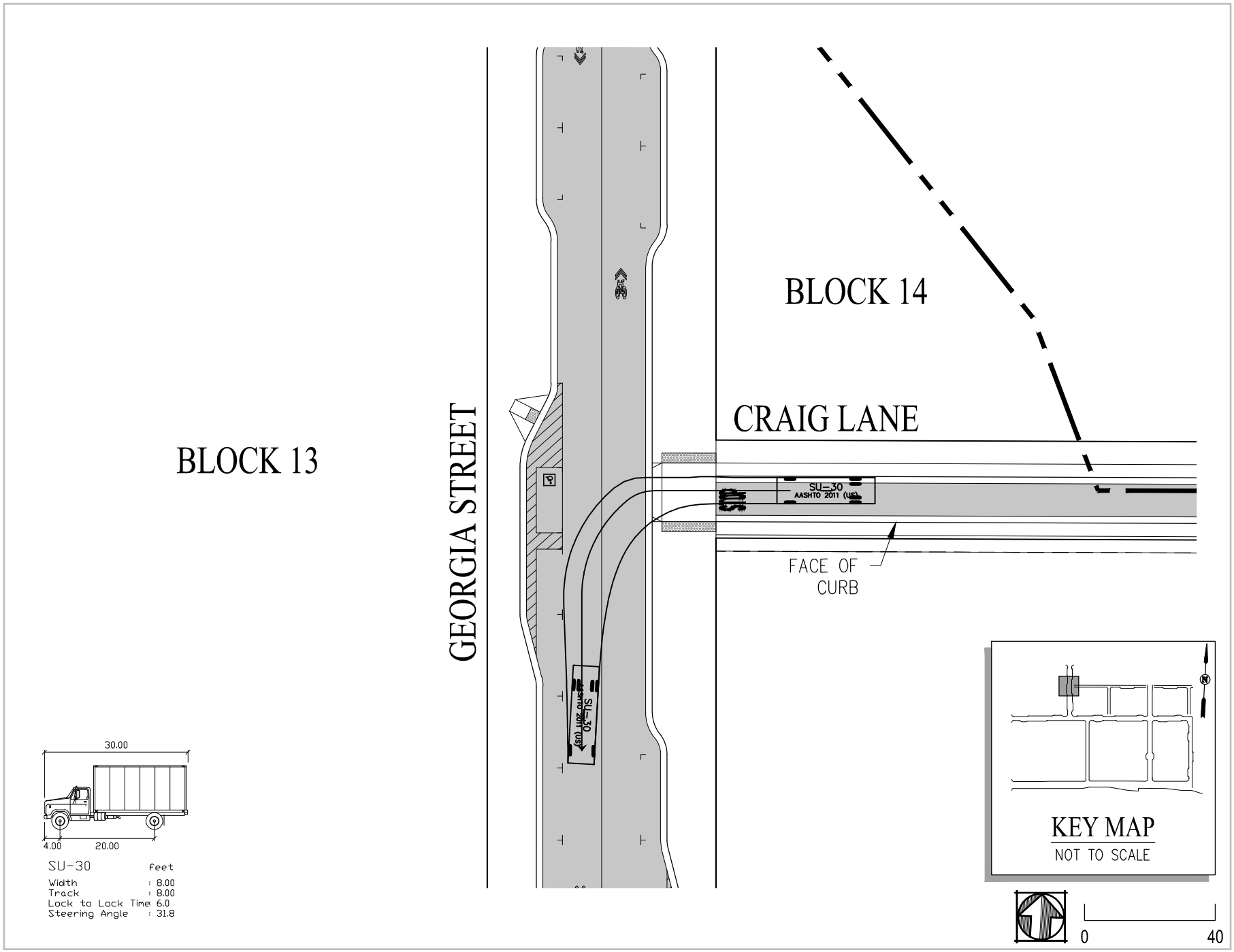

BLOCK 13
GEORGIA STREET
BLOCK 14
CRAIG LANE
SU-30
AASHTO 2011 (US)
FACE OF
CURB
KEY MAP
NOT TO SCALE
0
40
30.00
4.00
20.00
SU-30
feet
Width : 8.00
Track : 8.00
Lock to Lock Time 6.0
Steering Angle : 31.8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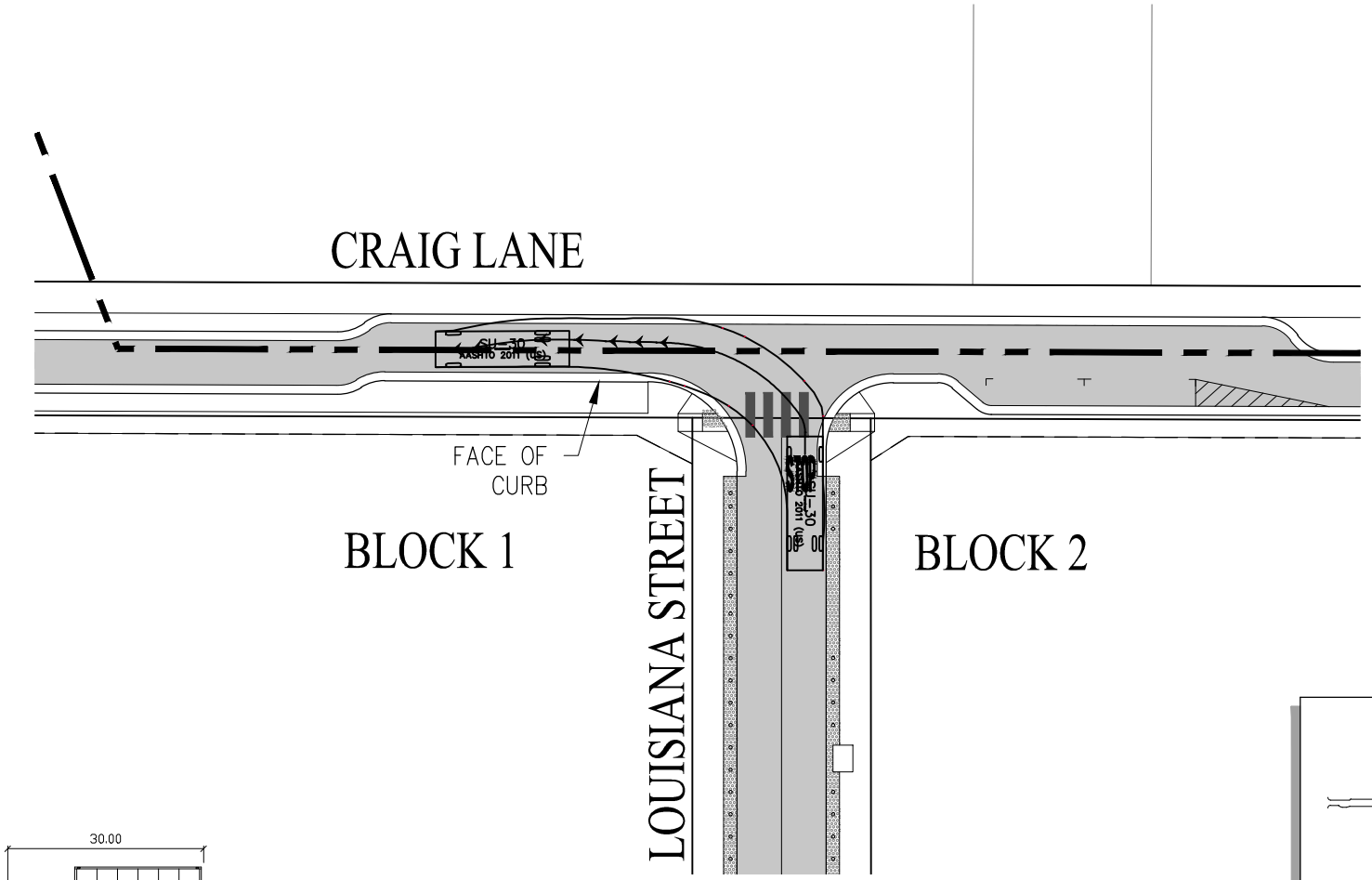

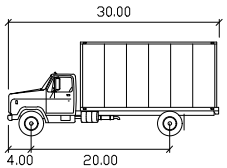

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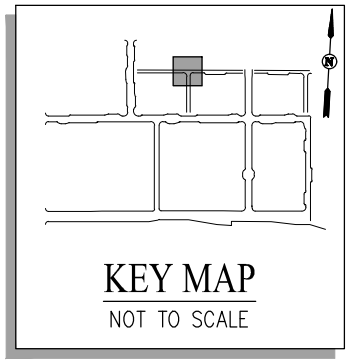

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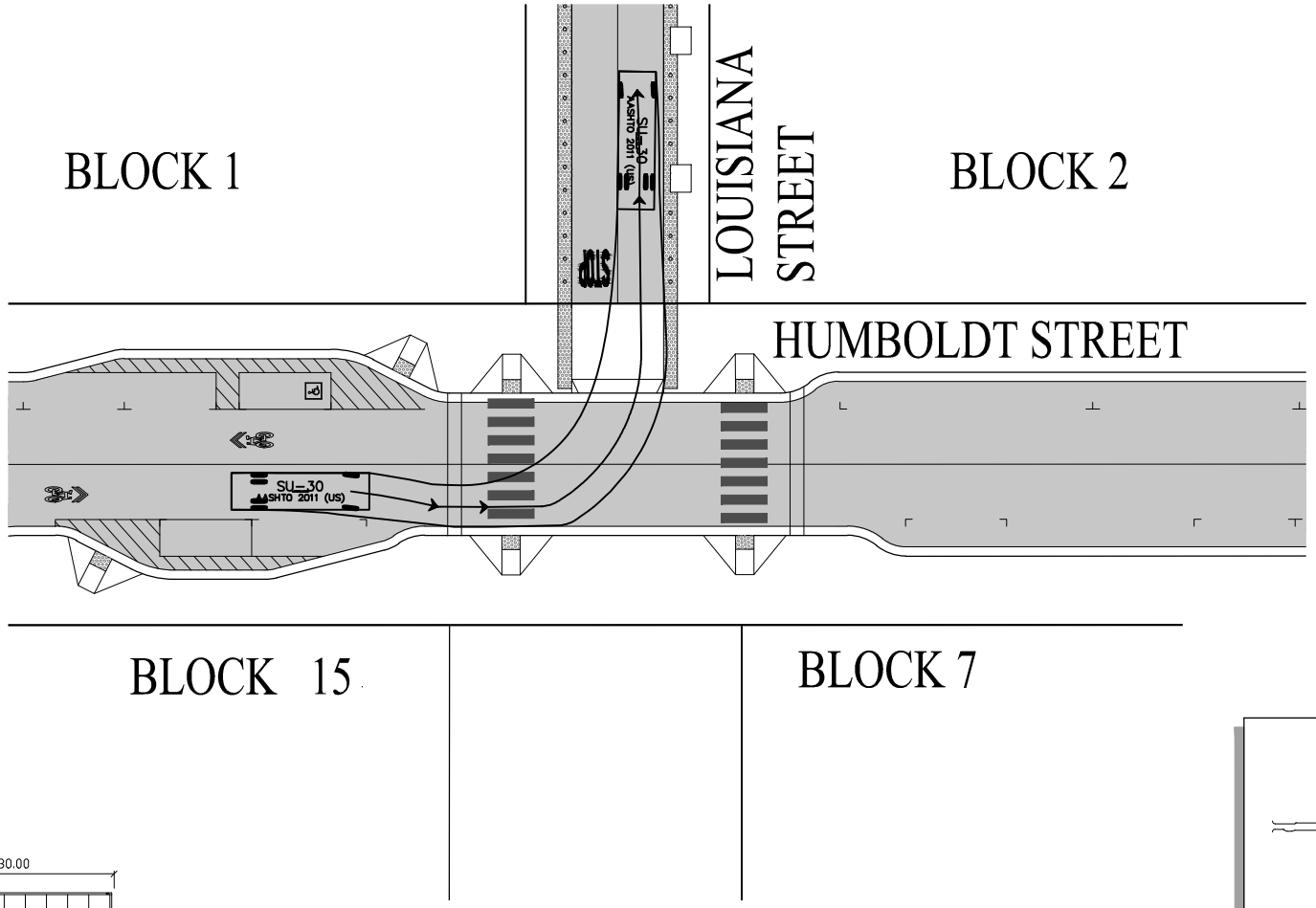

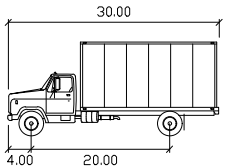

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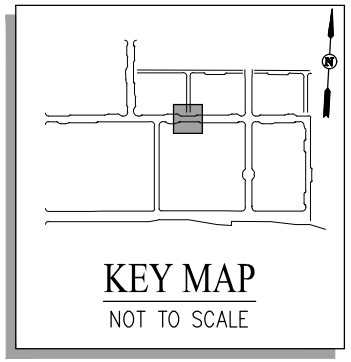

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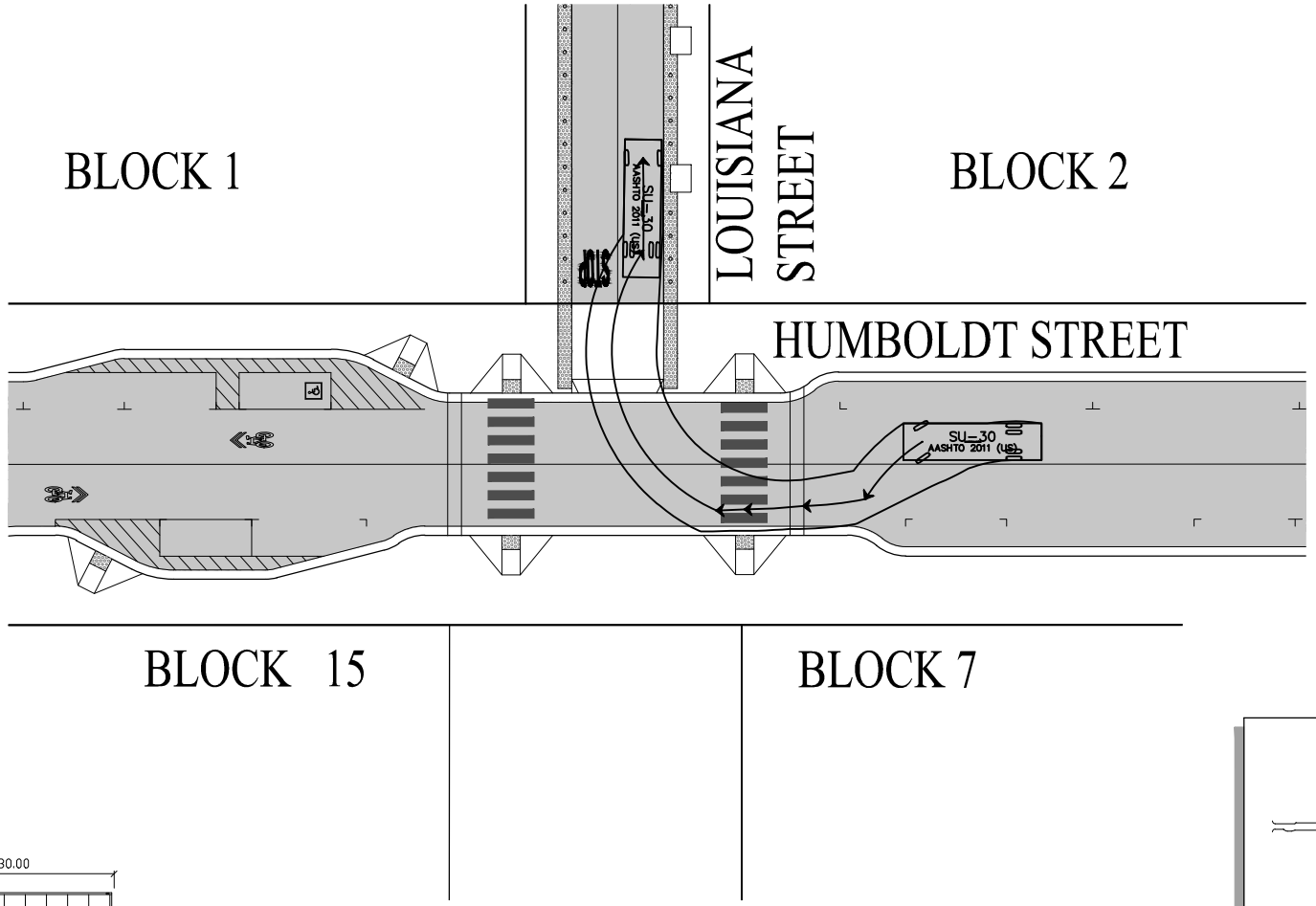

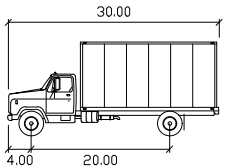

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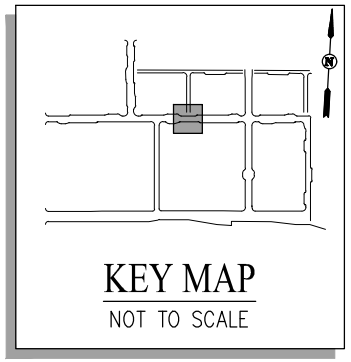

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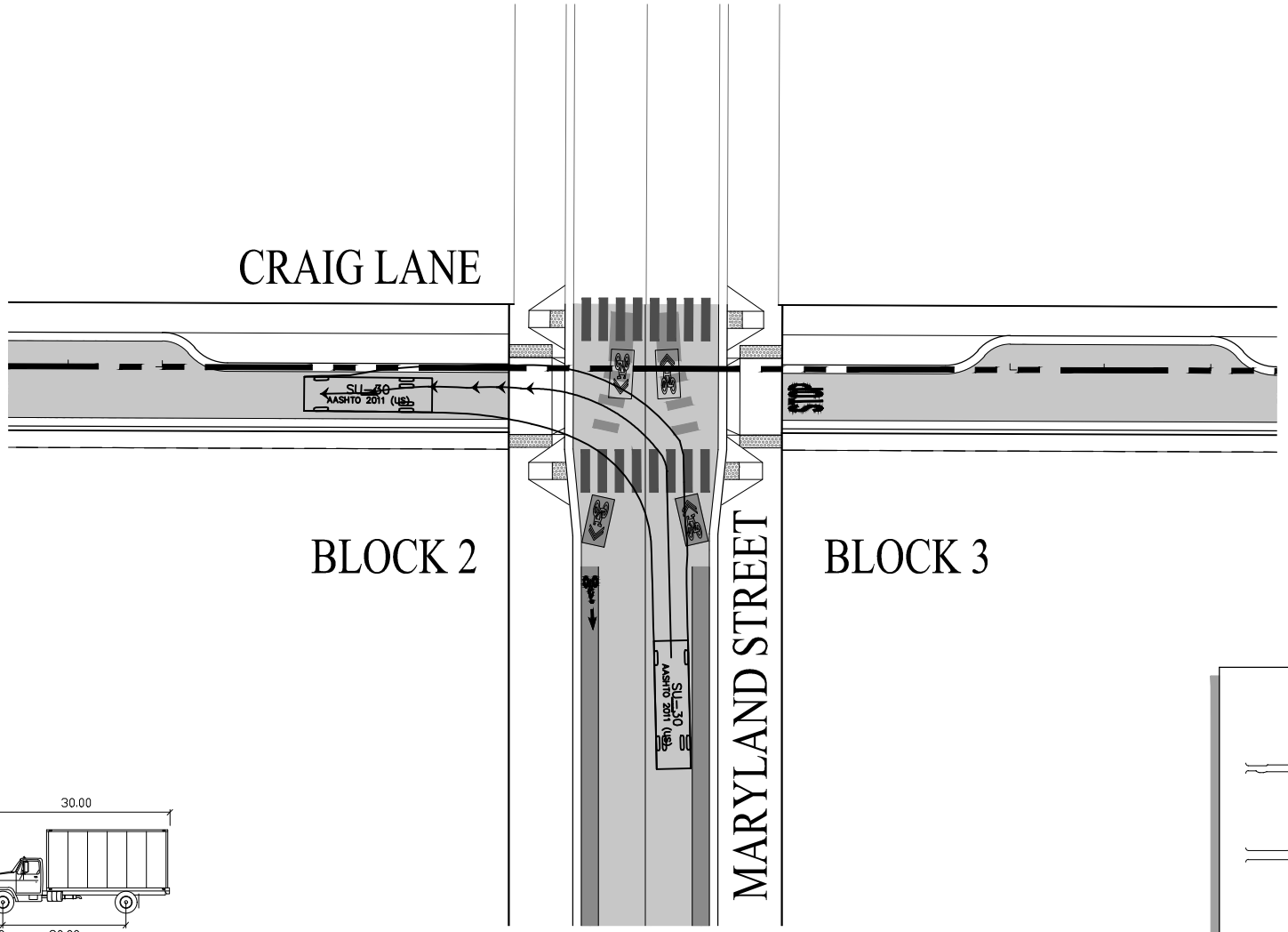

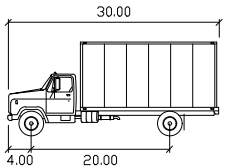

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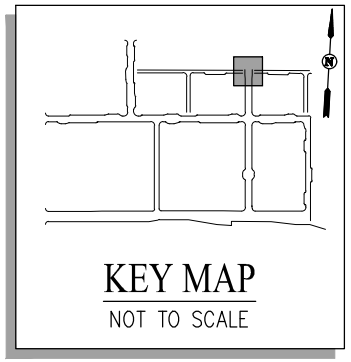

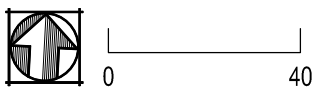

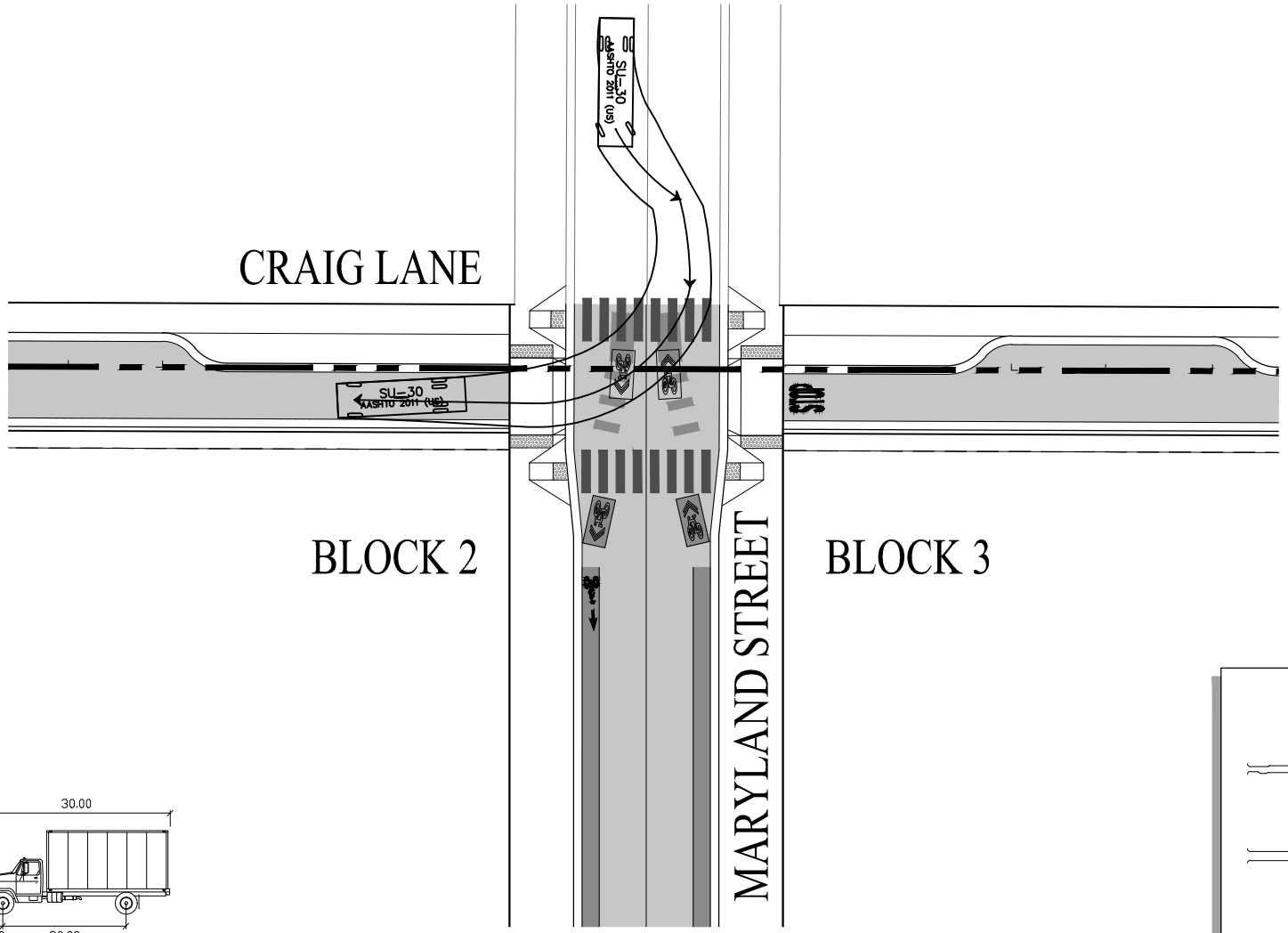

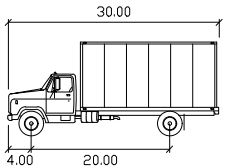

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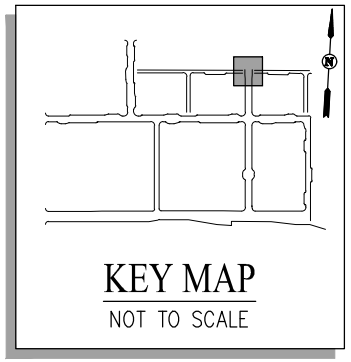

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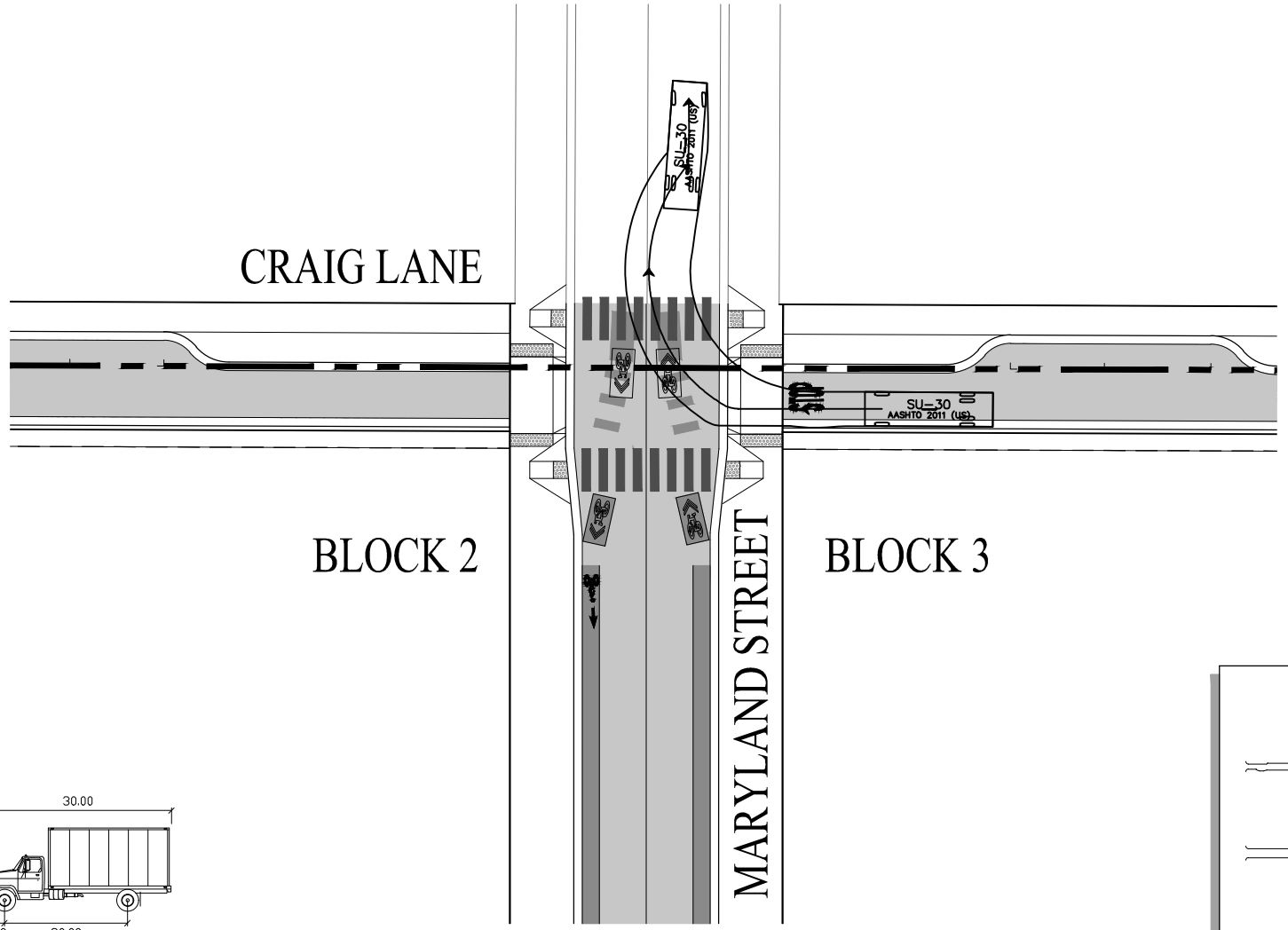

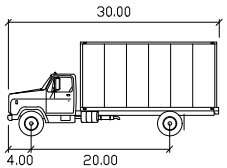

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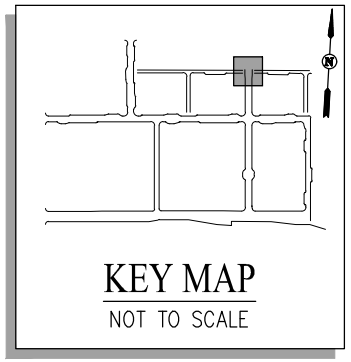

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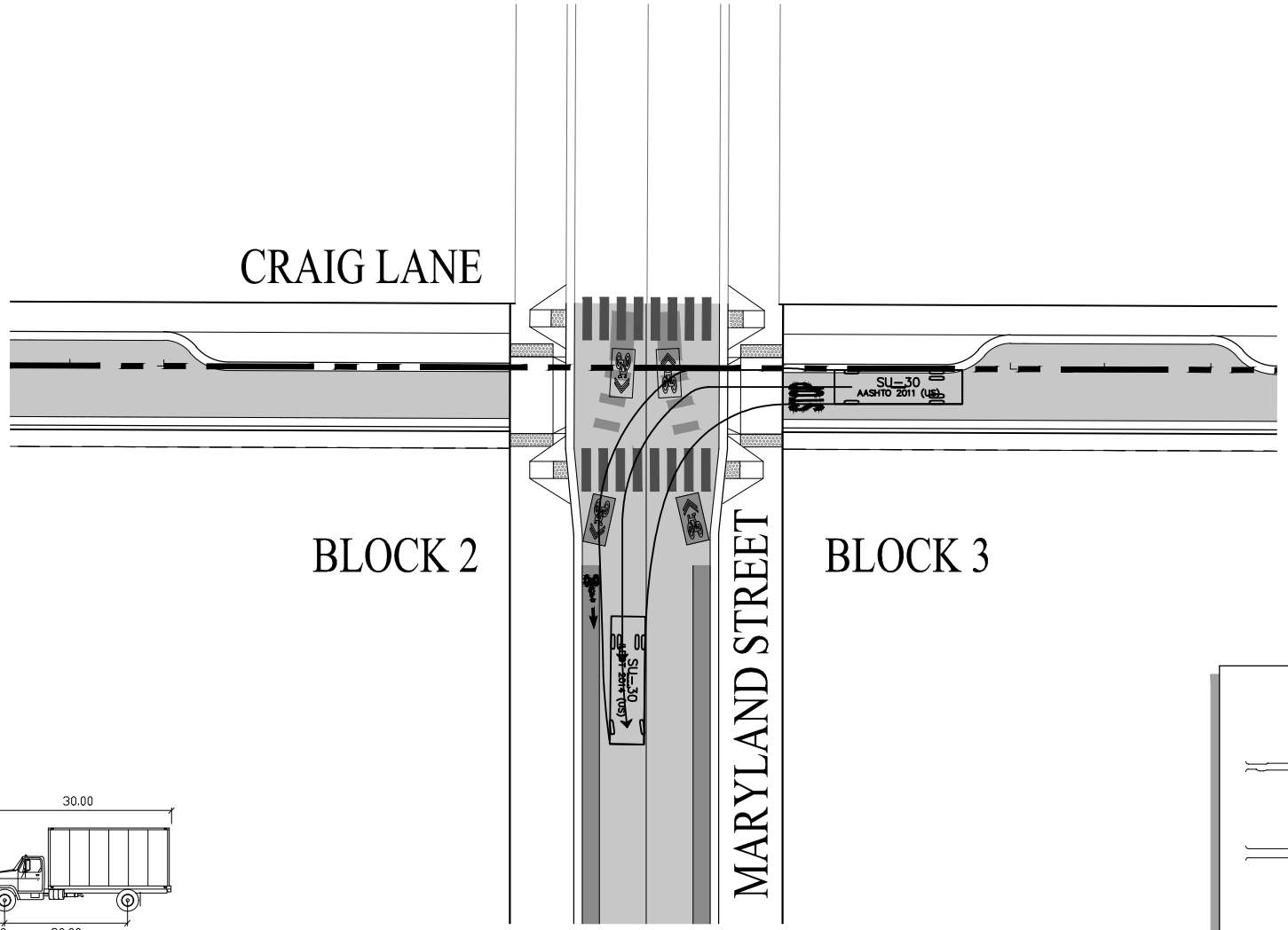

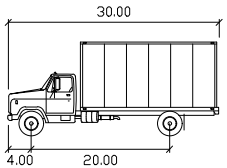

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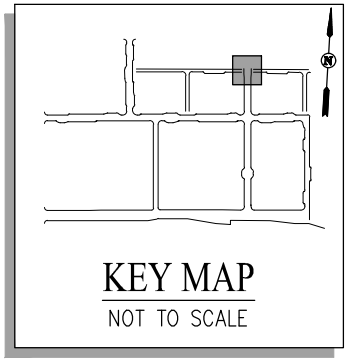

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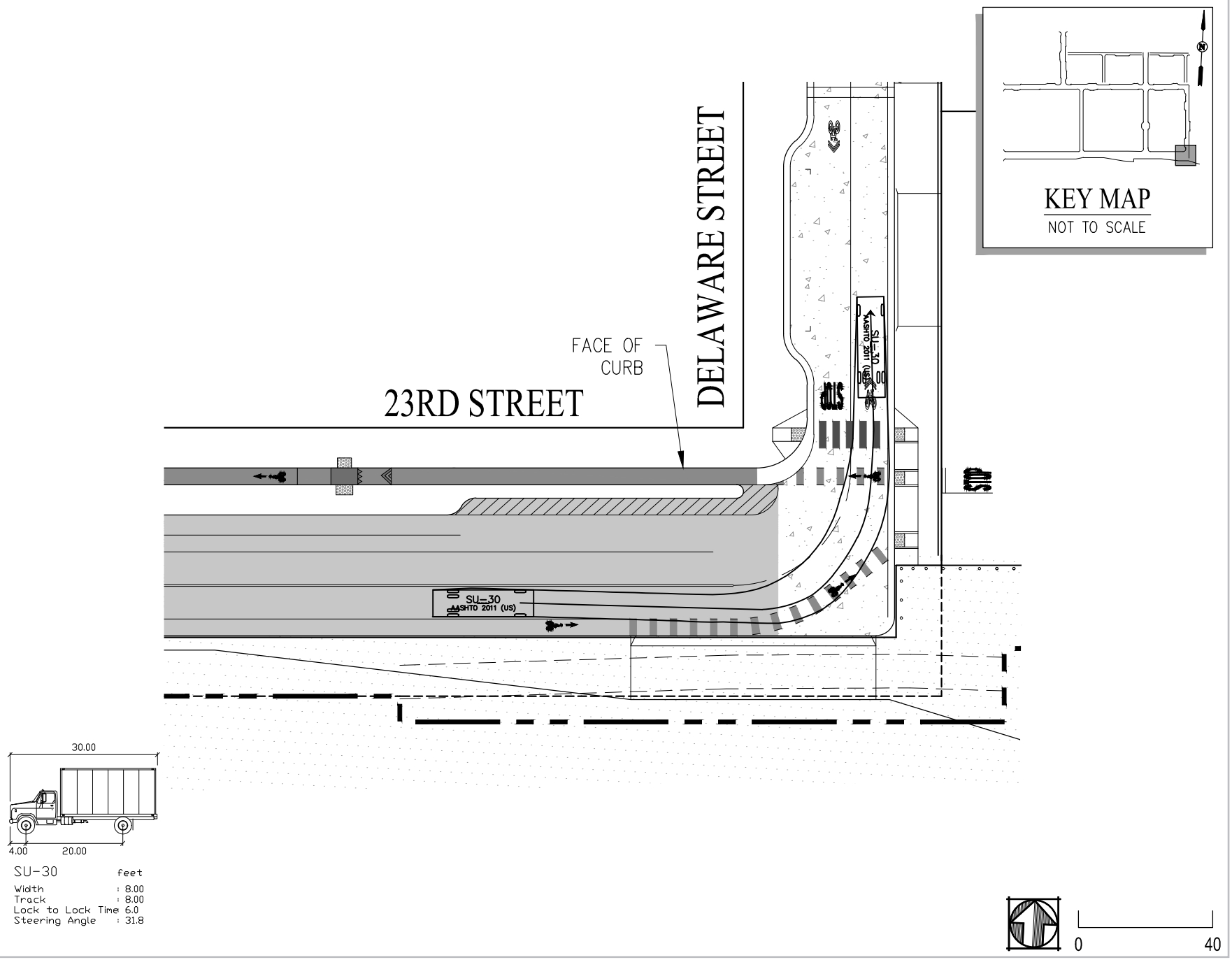

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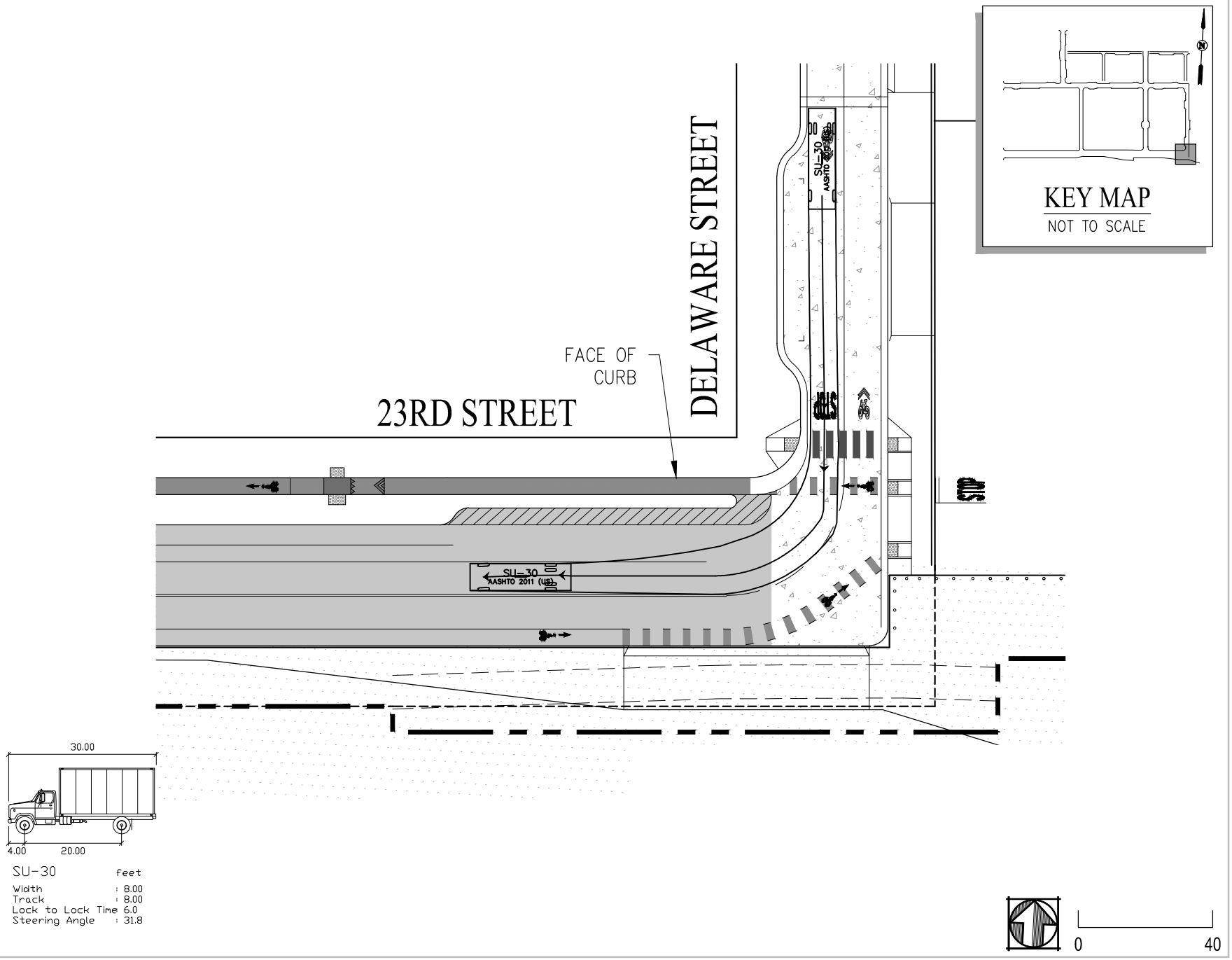

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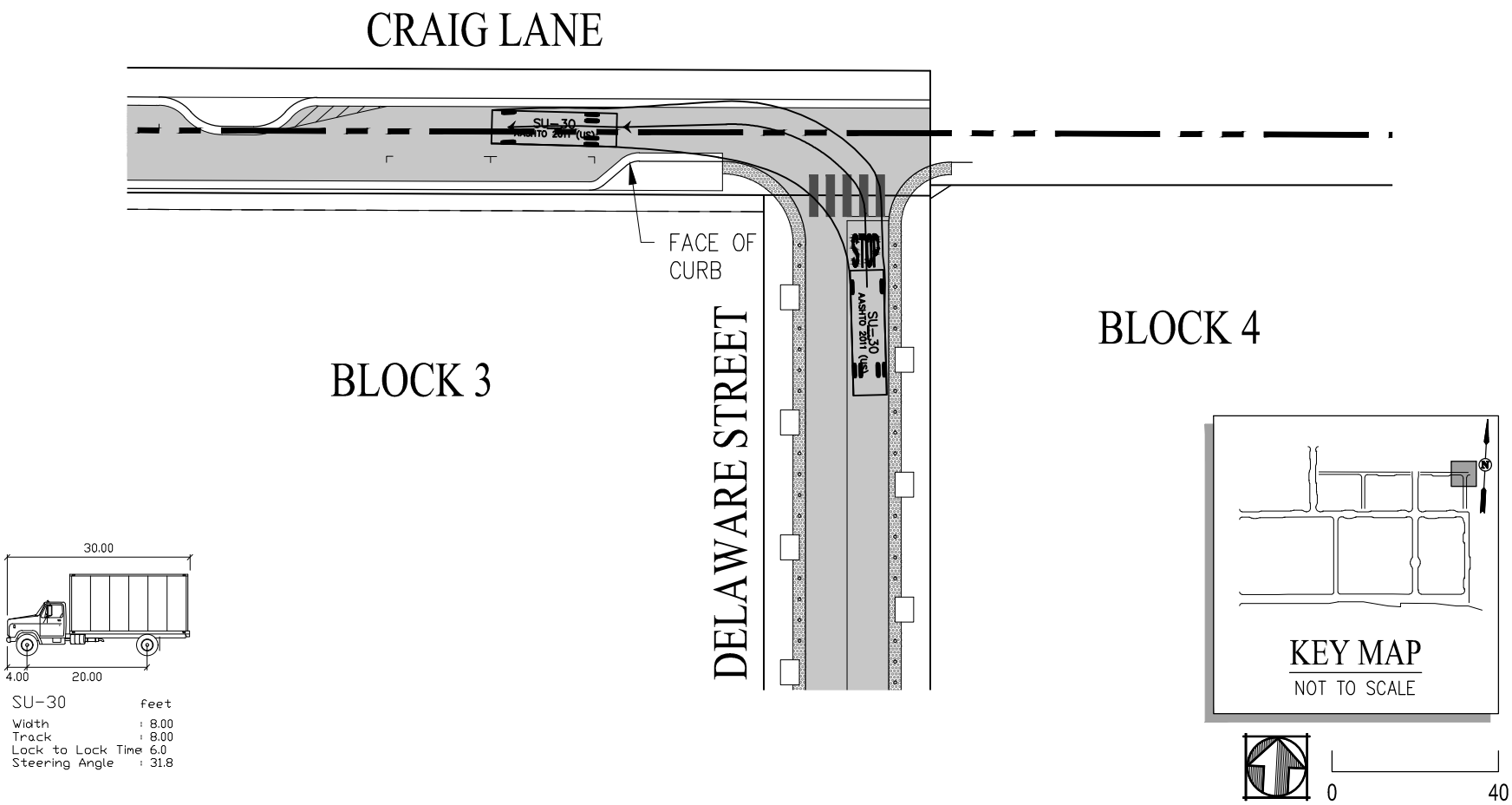
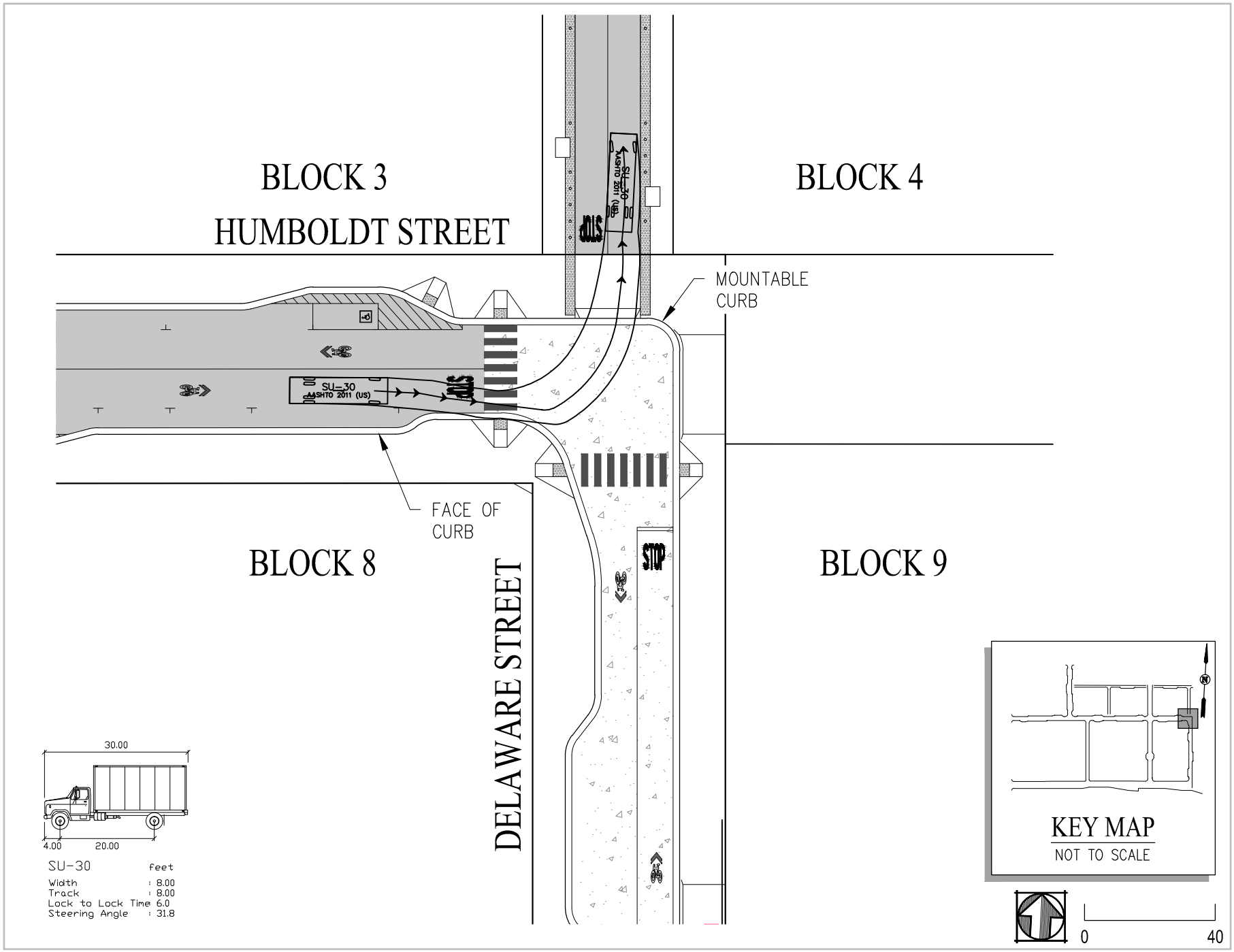
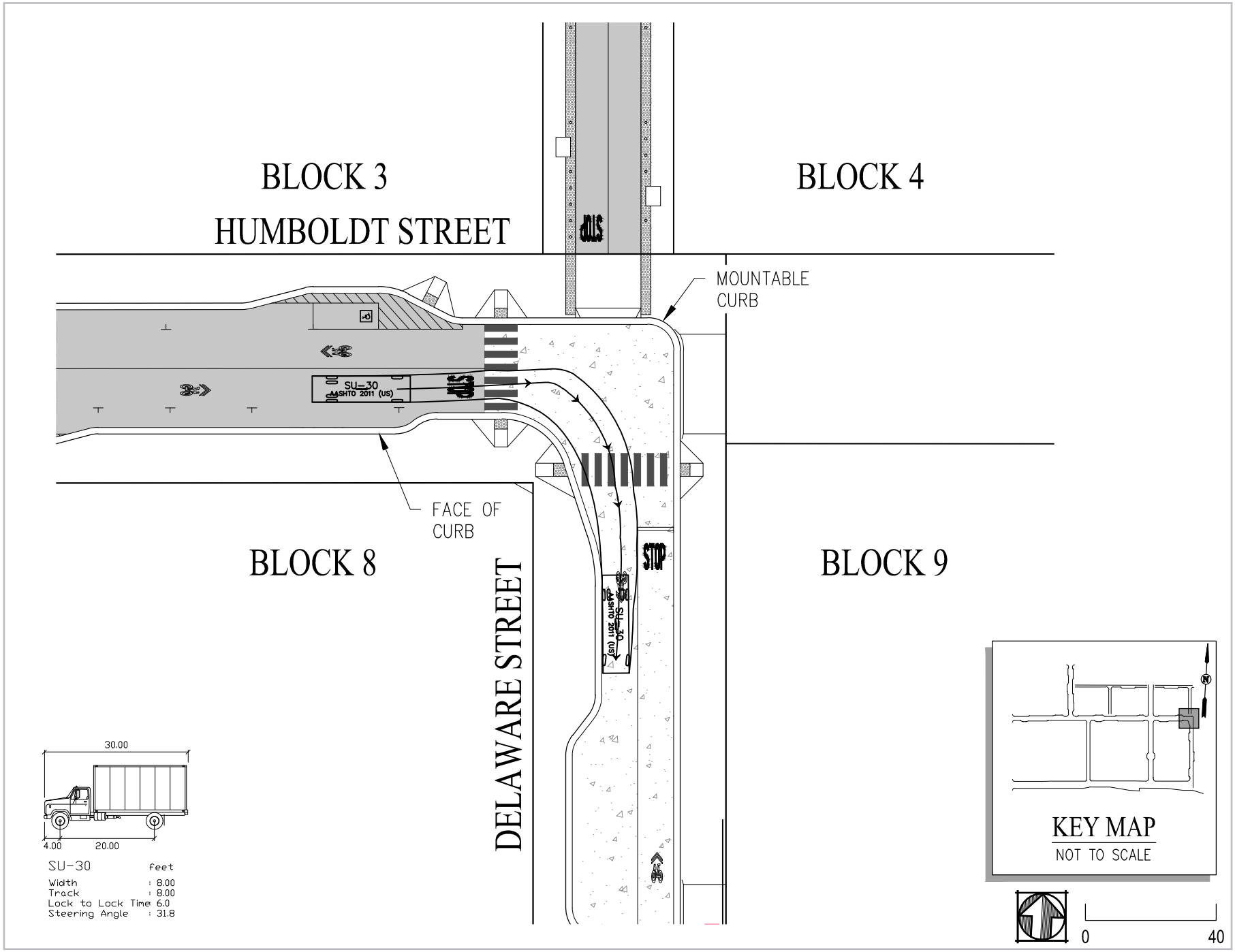
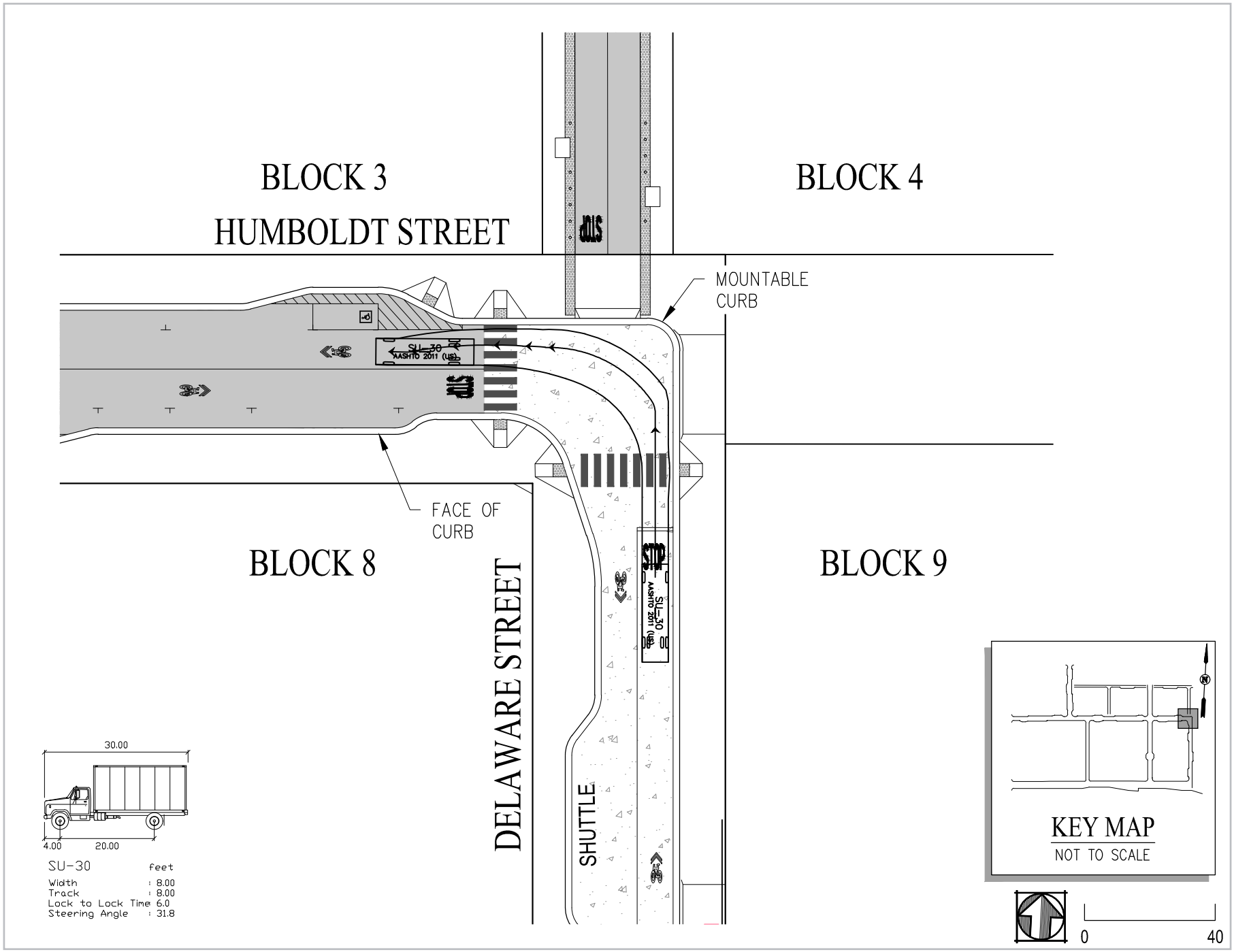
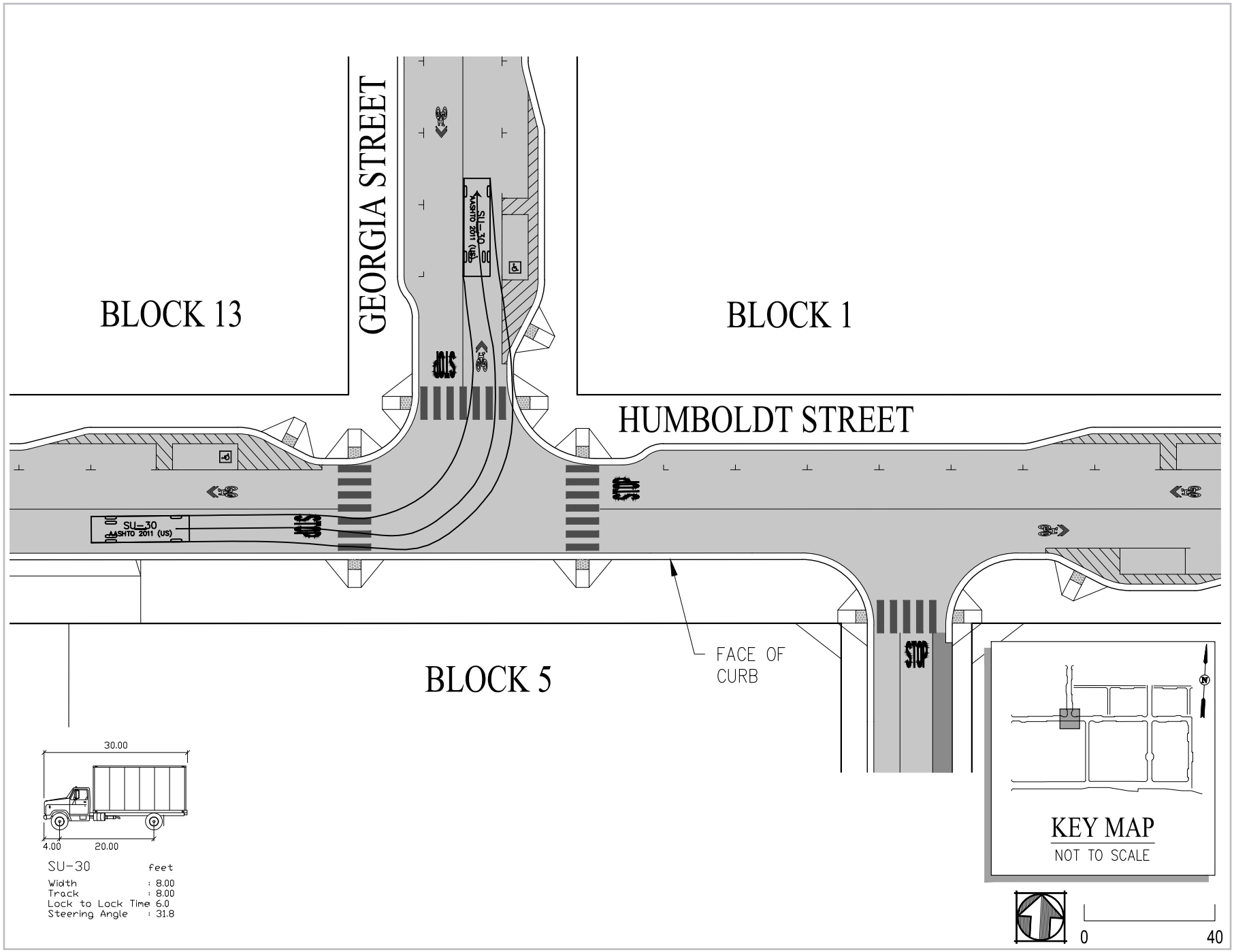

CRAIG LANE
SU-30
AASHTO 2011 (US)
FACE OF CURB
STOP
SU-30
AASHTO 2011 (US)
BLOCK 3
DELAWARE STREET
BLOCK 4
30.00
4.00
20.00
SU-30
feet
Width : 8.00
Track : 8.00
Lock to Lock Time 6.0
Steering Angle : 31.8
KEY MAP
NOT TO SCALE
0
40


BLOCK 3
HUMBOLDT STREET
BLOCK 4
SU-30
AASHTO 2011 (US)
STOP
MOUNTABLE
CURB
FACE OF
CURB
BLOCK 8
DELAWARE STREET
BLOCK 9
30.00
4.00
20.00
SU-30
feet
Width : 8.00
Track : 8.00
Lock to Lock Time 6.0
Steering Angle : 31.8
KEY MAP
NOT TO SCALE
0
40

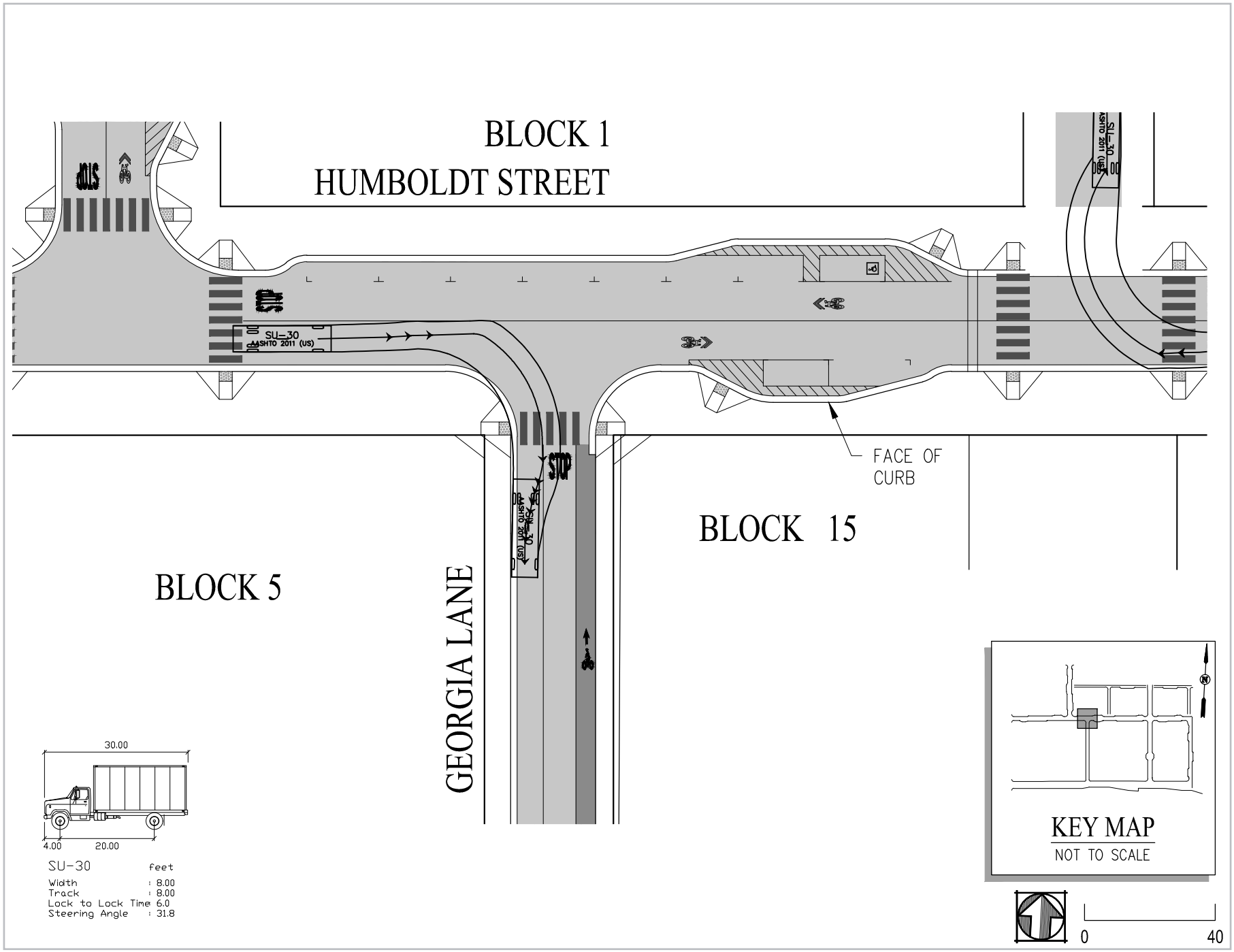


Appendix E Large Vehicle Movements – SU 30

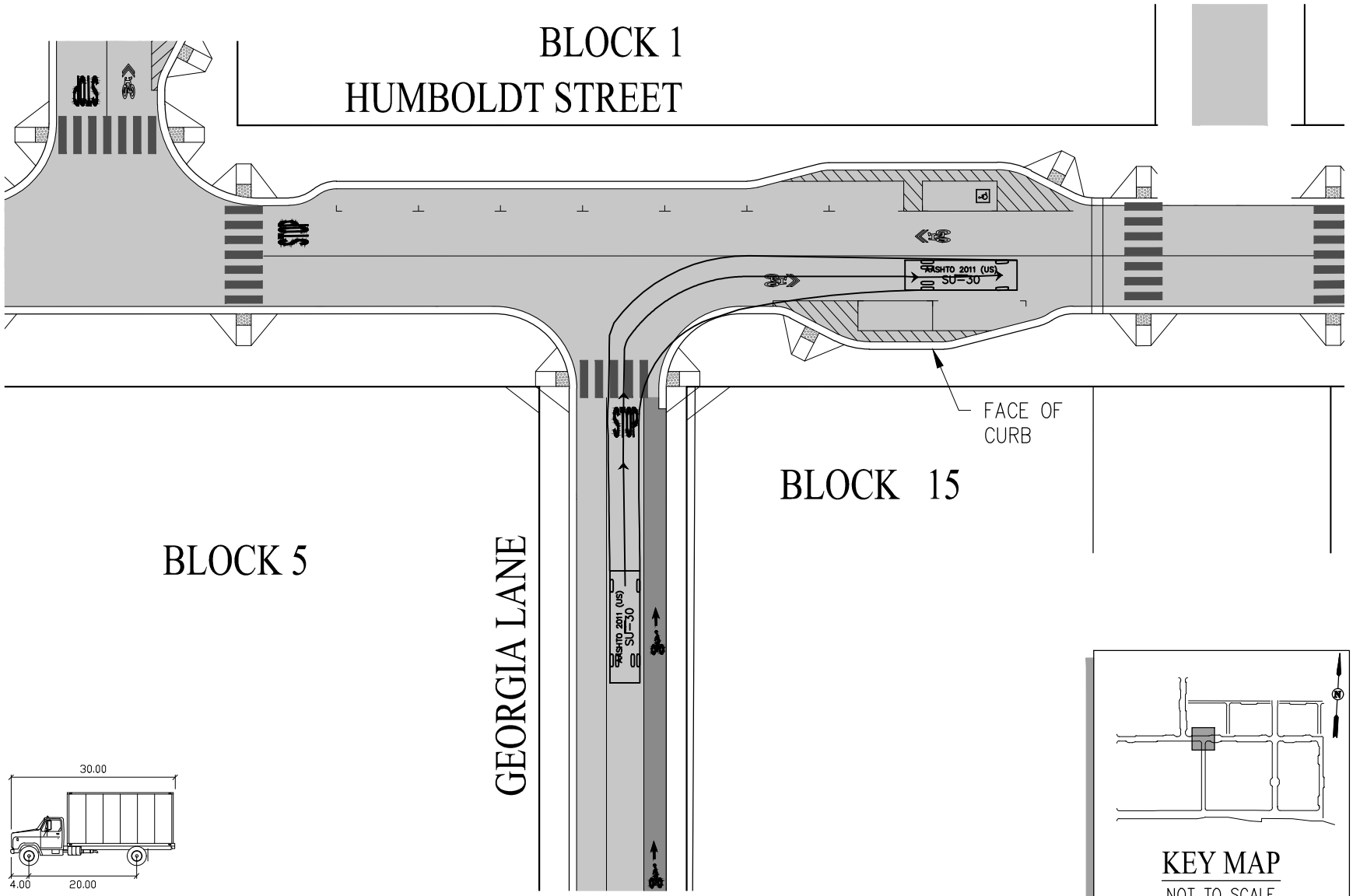

BLOCK 3
HUMBOLDT STREET
BLOCK 4
MOUNTABLE CURB
FACE OF CURB
BLOCK 8
DELAWARE STREET
SHUTTLE
BLOCK 9
SU-30
AASHTO 2011 (US)
STOP
30.00
4.00
20.00
SU-30 feet
Width : 8.00
Track : 8.00
Lock to Lock Time 6.0
Steering Angle : 31.8
KEY MAP
NOT TO SCALE
0
40



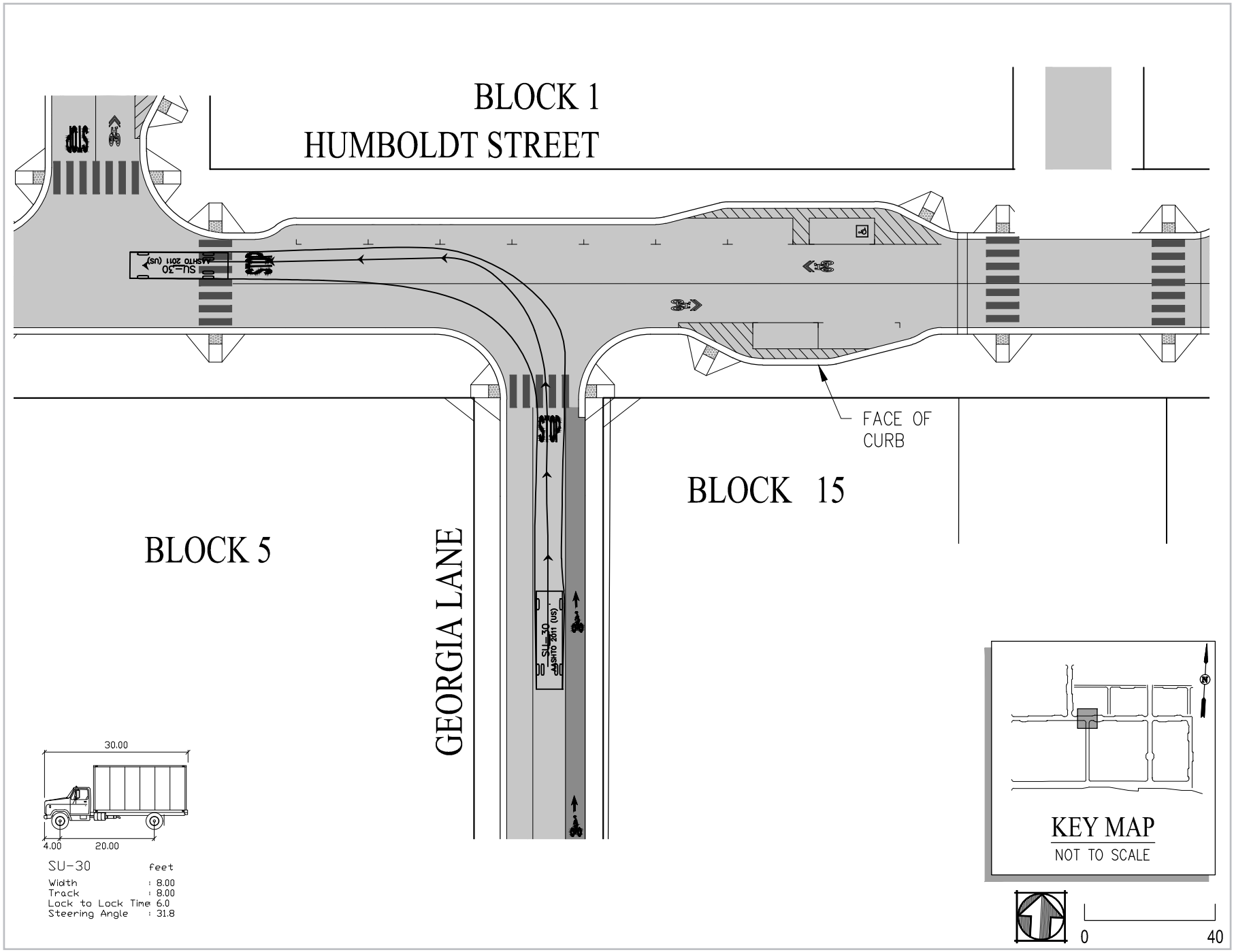
Appendix E Large Vehicle Movements – SU 30

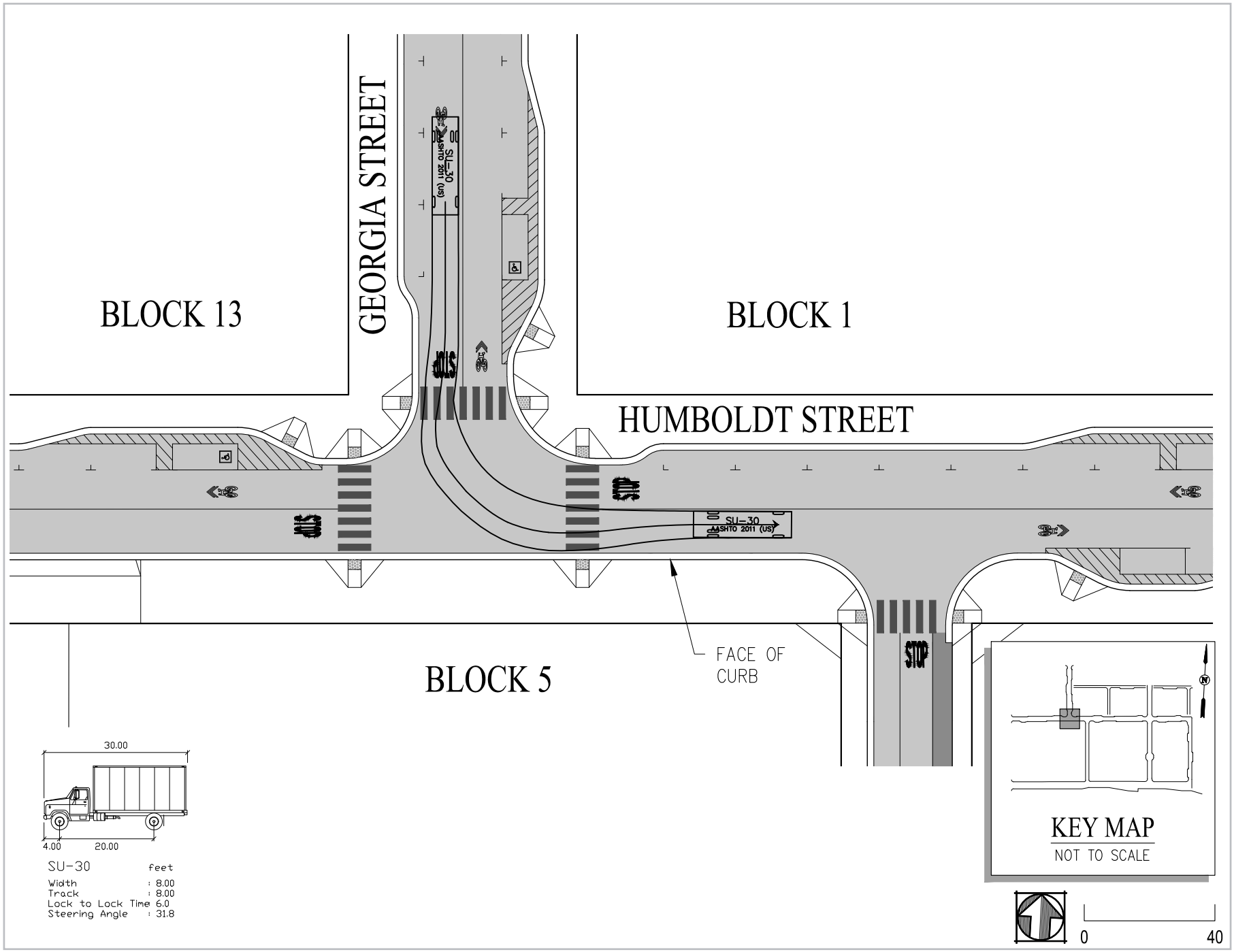


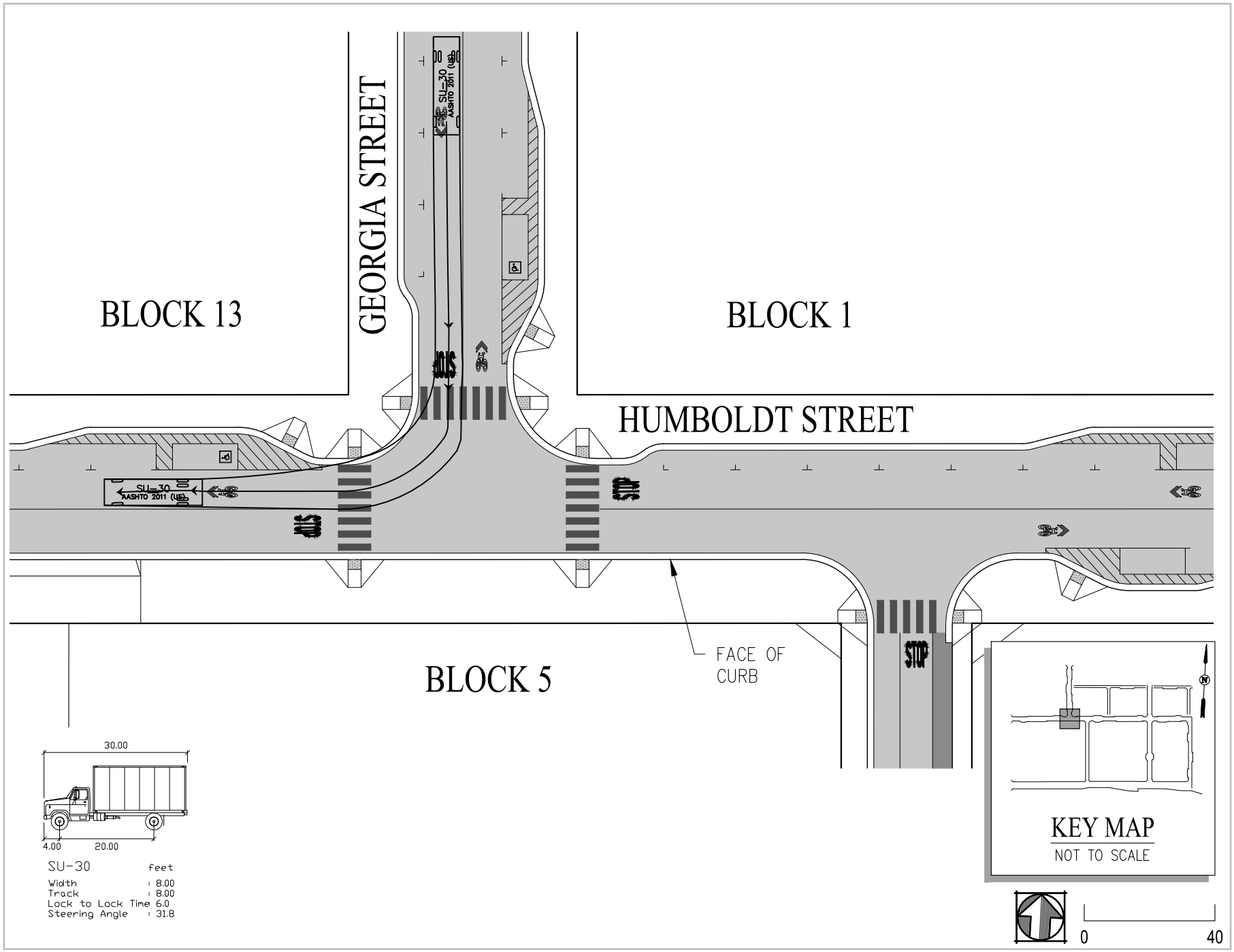
Appendix E Large Vehicle Movements – SU 30



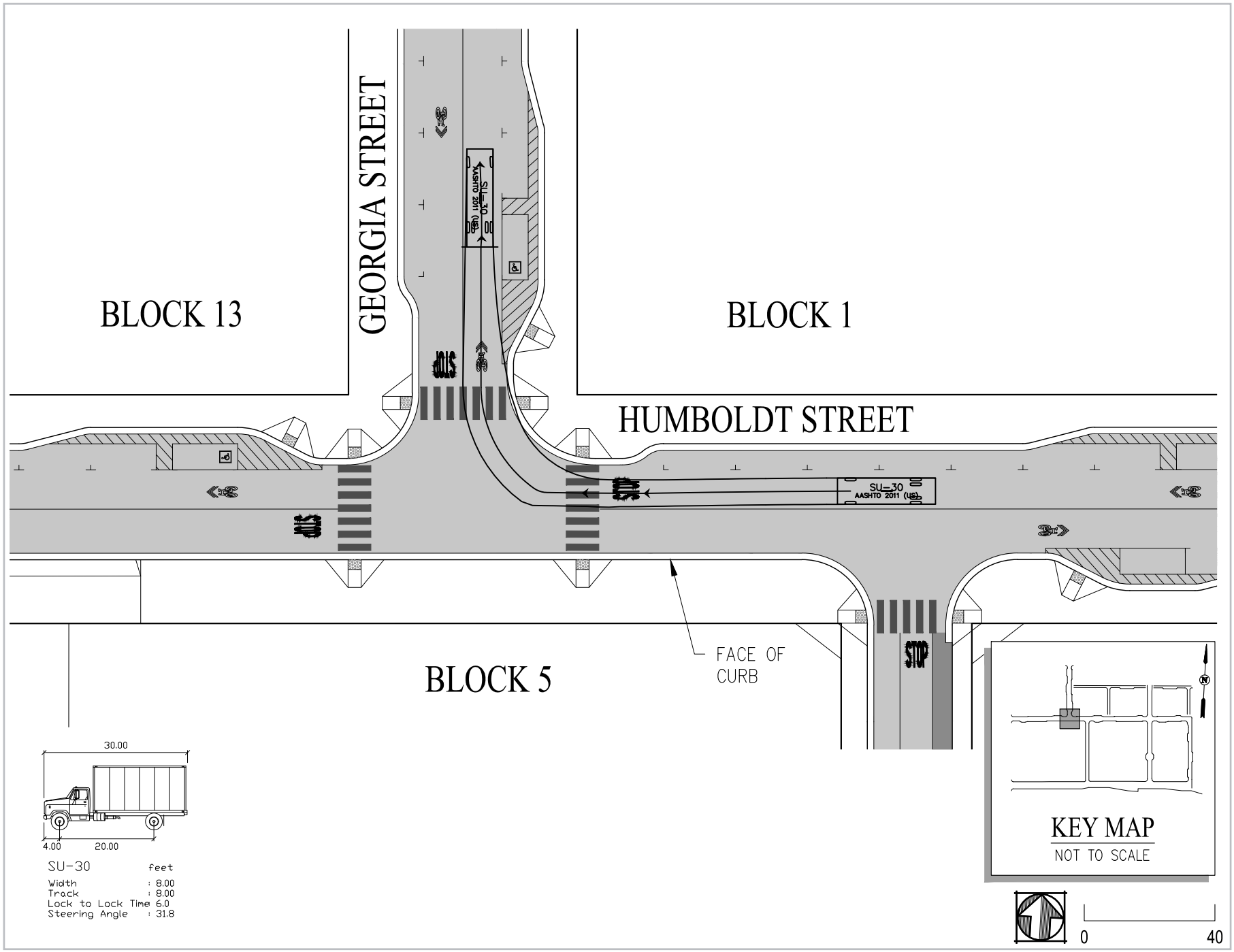
Appendix E Large Vehicle Movements – SU 30


BLOCK 1
HUMBOLDT STREET
STOP
SU-30
AASHTO 2011 (US)
FACE OF
CURB
BLOCK 15
BLOCK 5
GEORGIA LANE
STOP
SU-30
AASHTO 2011 (US)
30.00
4.00
20.00
SU-30
feet
Width : 8.00
Track : 8.00
Lock to Lock Time 6.0
Steering Angle : 31.8
KEY MAP
NOT TO SCALE
N
0
40

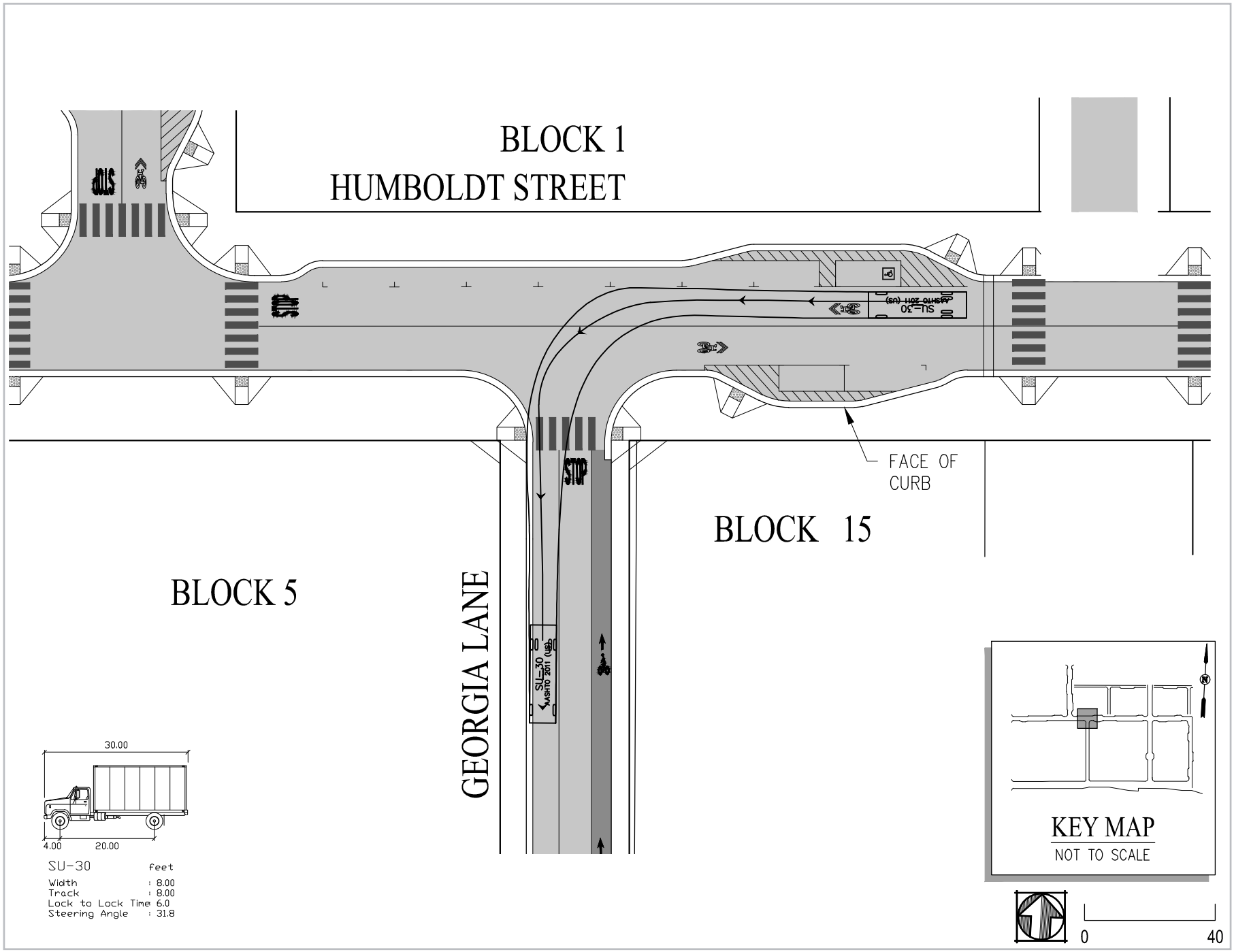

BLOCK 13
GEORGIA STREET
BLOCK 1
HUMBOLDT STREET
SU-30
AASHTO 2011 (US)
BLOCK 5
FACE OF
CURB
STOP
30.00
4.00
20.00
SU-30
feet
Width : 8.00
Track : 8.00
Lock to Lock Time 6.0
Steering Angle : 31.8
KEY MAP
NOT TO SCALE
0
40



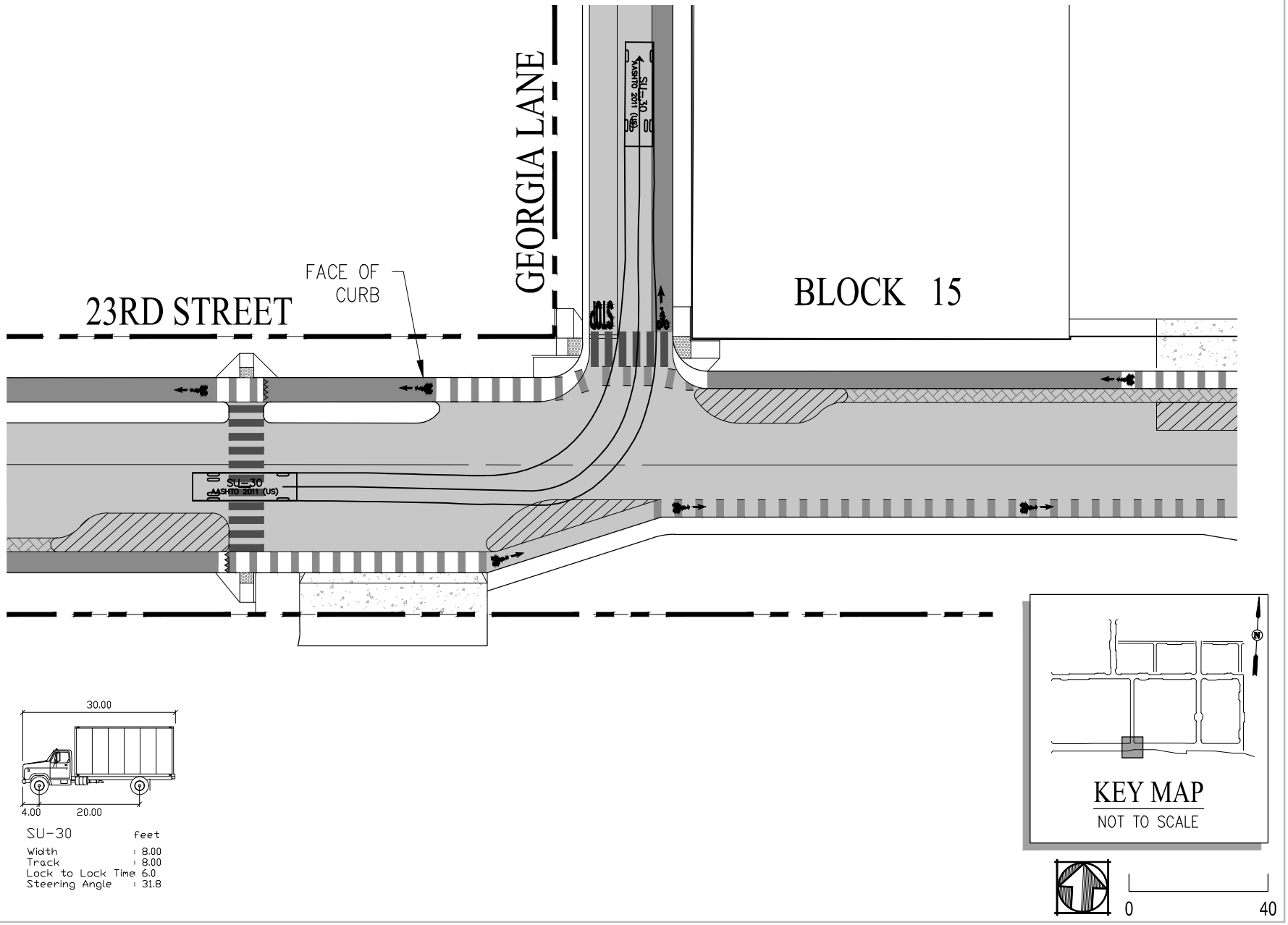
Appendix E Large Vehicle Movements – SU 30



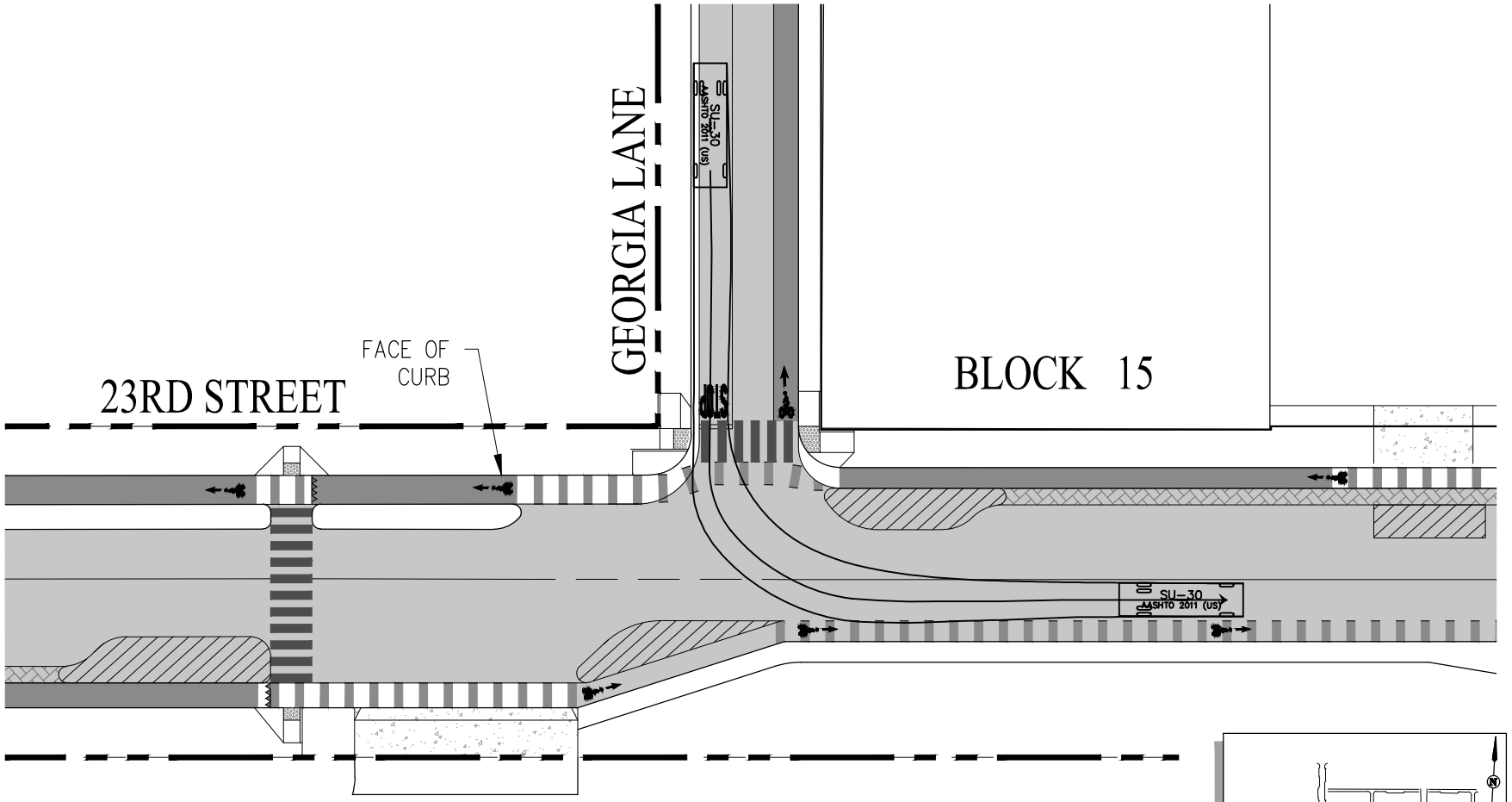
Appendix E Large Vehicle Movements – SU 30

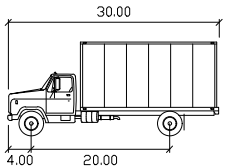


Appendix E Large Vehicle Movements – SU 30



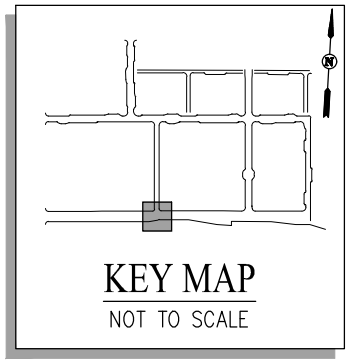
Appendix E Large Vehicle Movements – SU 30





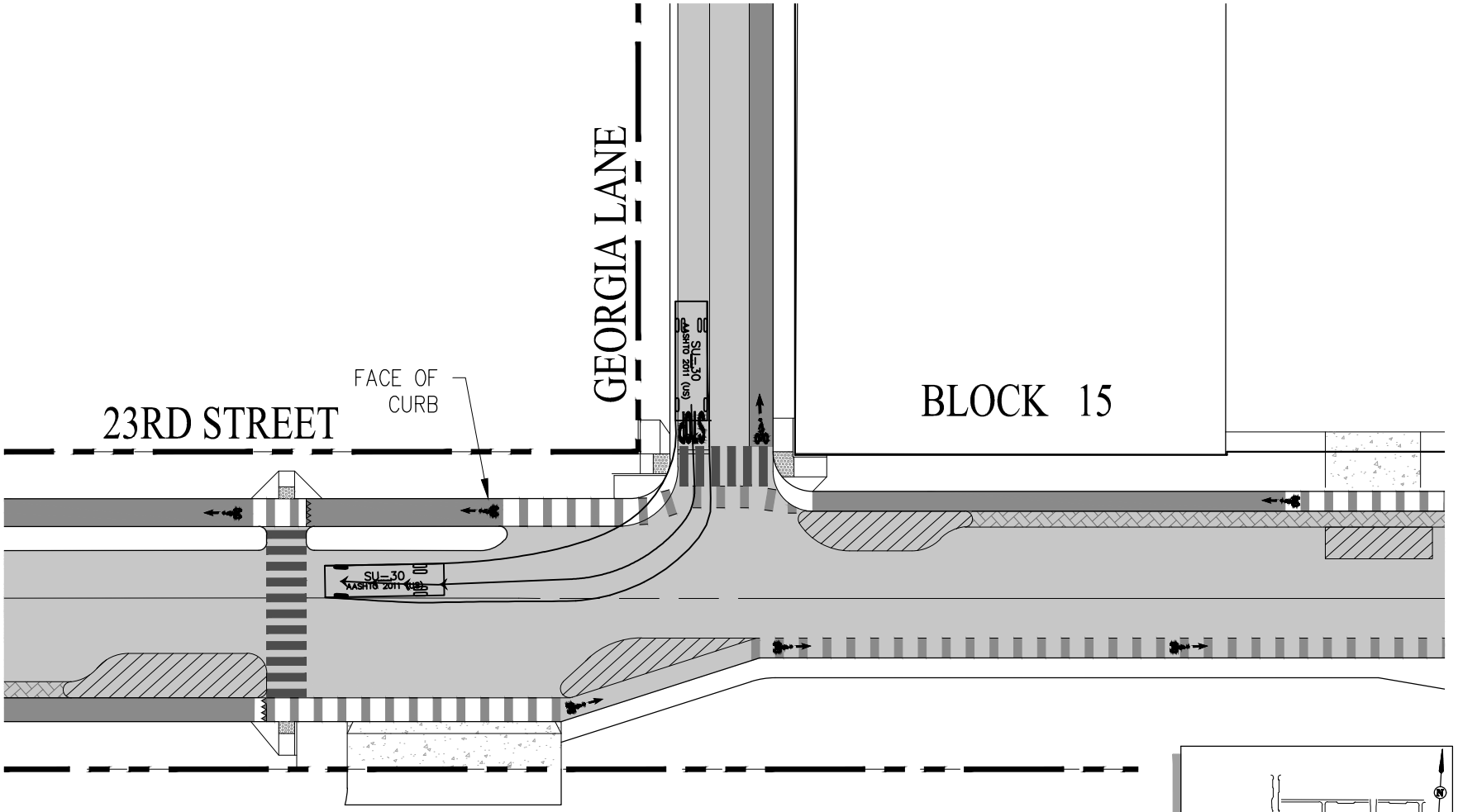
SU-30 feet

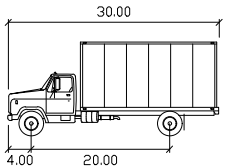
Width	: 8.00
Track	: 8.00
Lock to Lock Time	6.0
Steering Angle	: 31.8



0 40

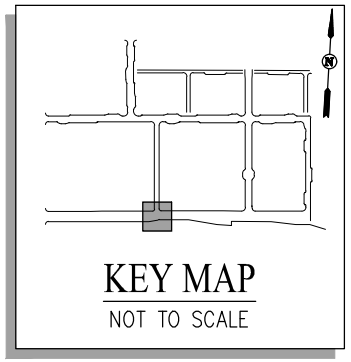
Appendix E Large Vehicle Movements – SU 30

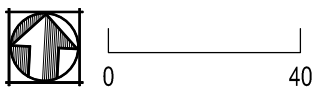




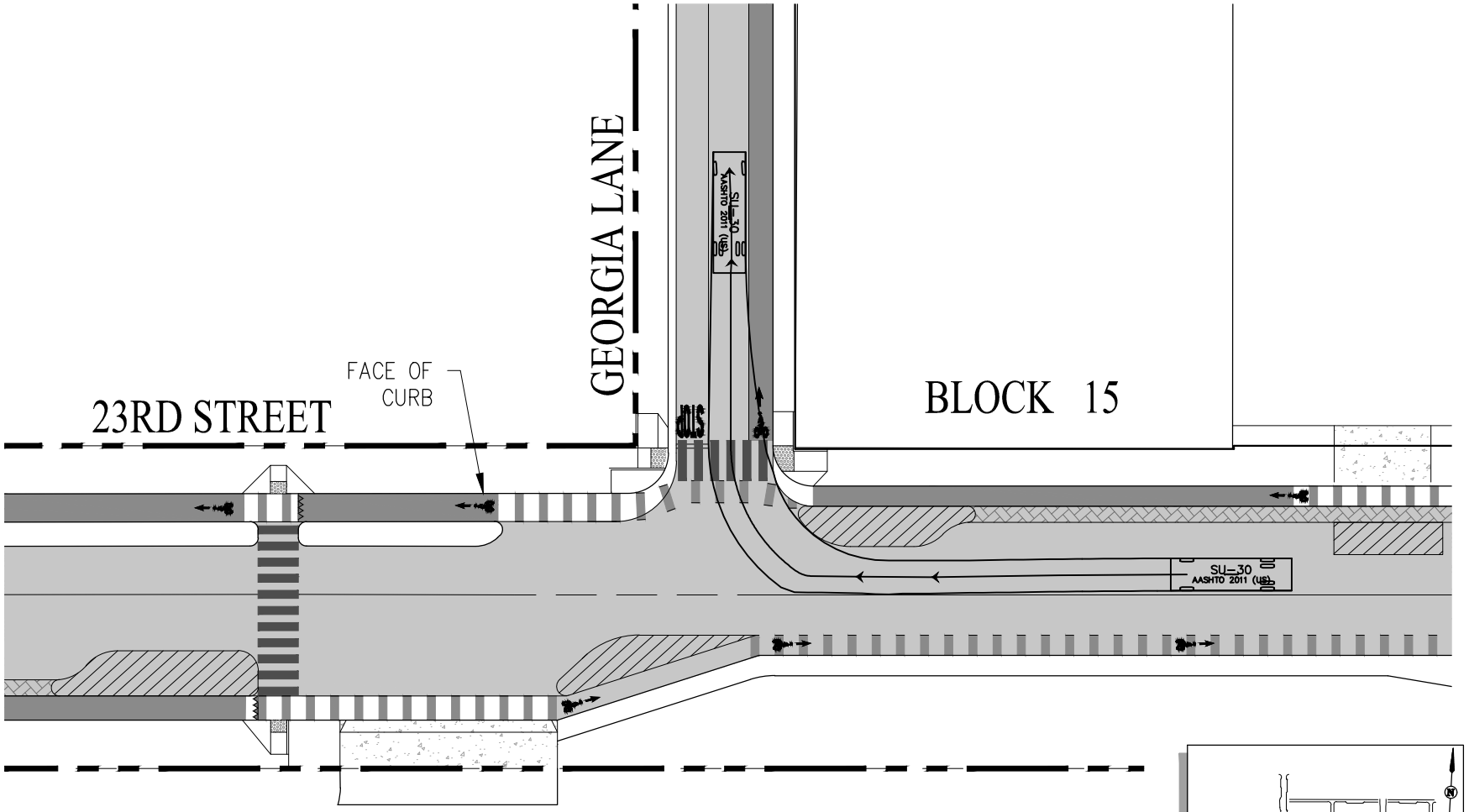
SU-30 feet

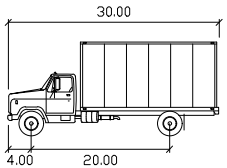
Width	: 8.00
Track	: 8.00
Lock to Lock Time	6.0
Steering Angle	: 31.8





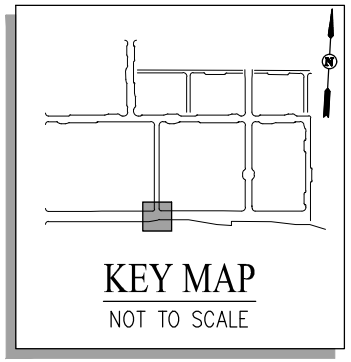
Appendix E Large Vehicle Movements – SU 30





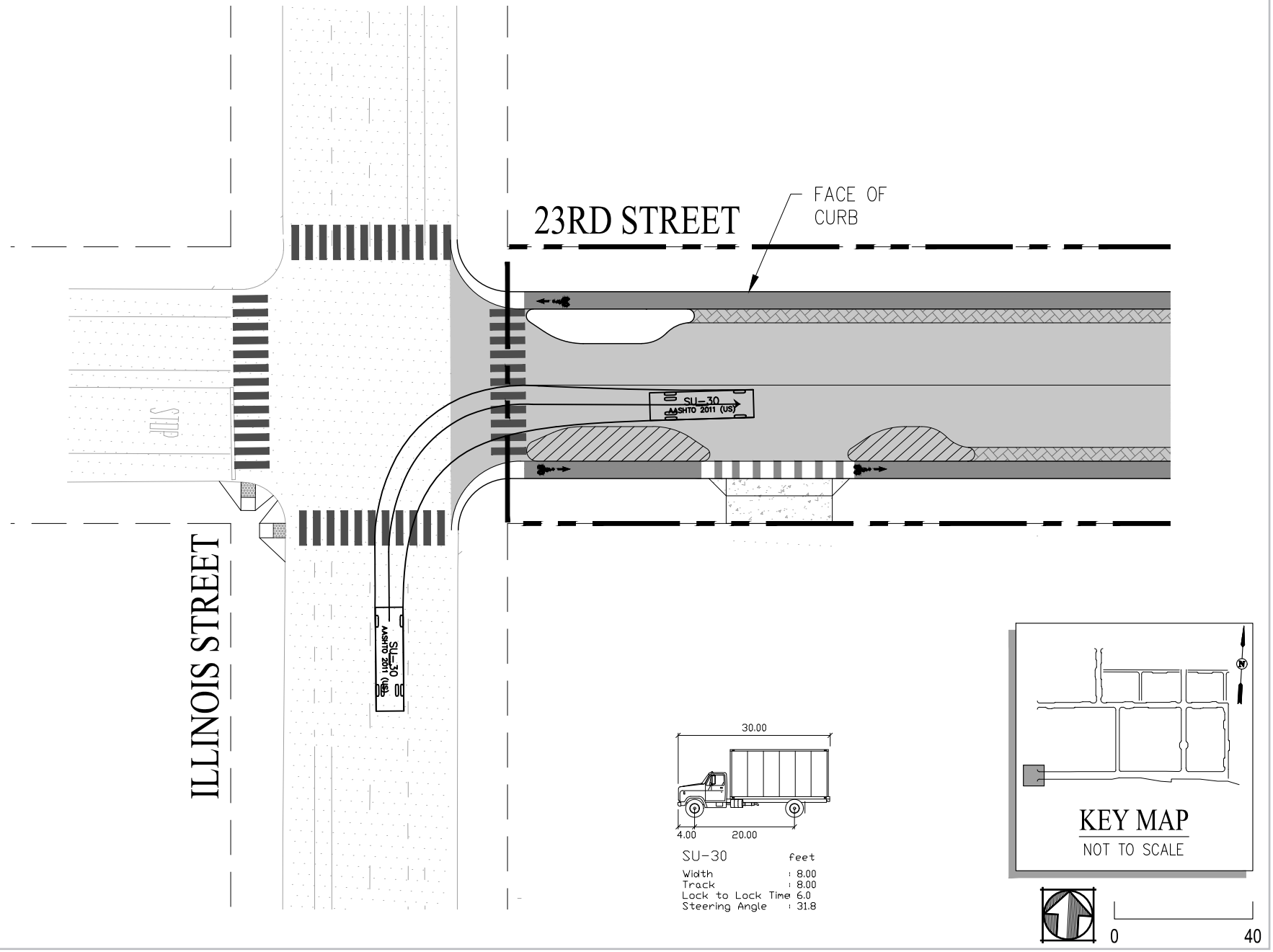
SU-30 feet

Width	: 8.00
Track	: 8.00
Lock to Lock Time	6.0
Steering Angle	: 31.8

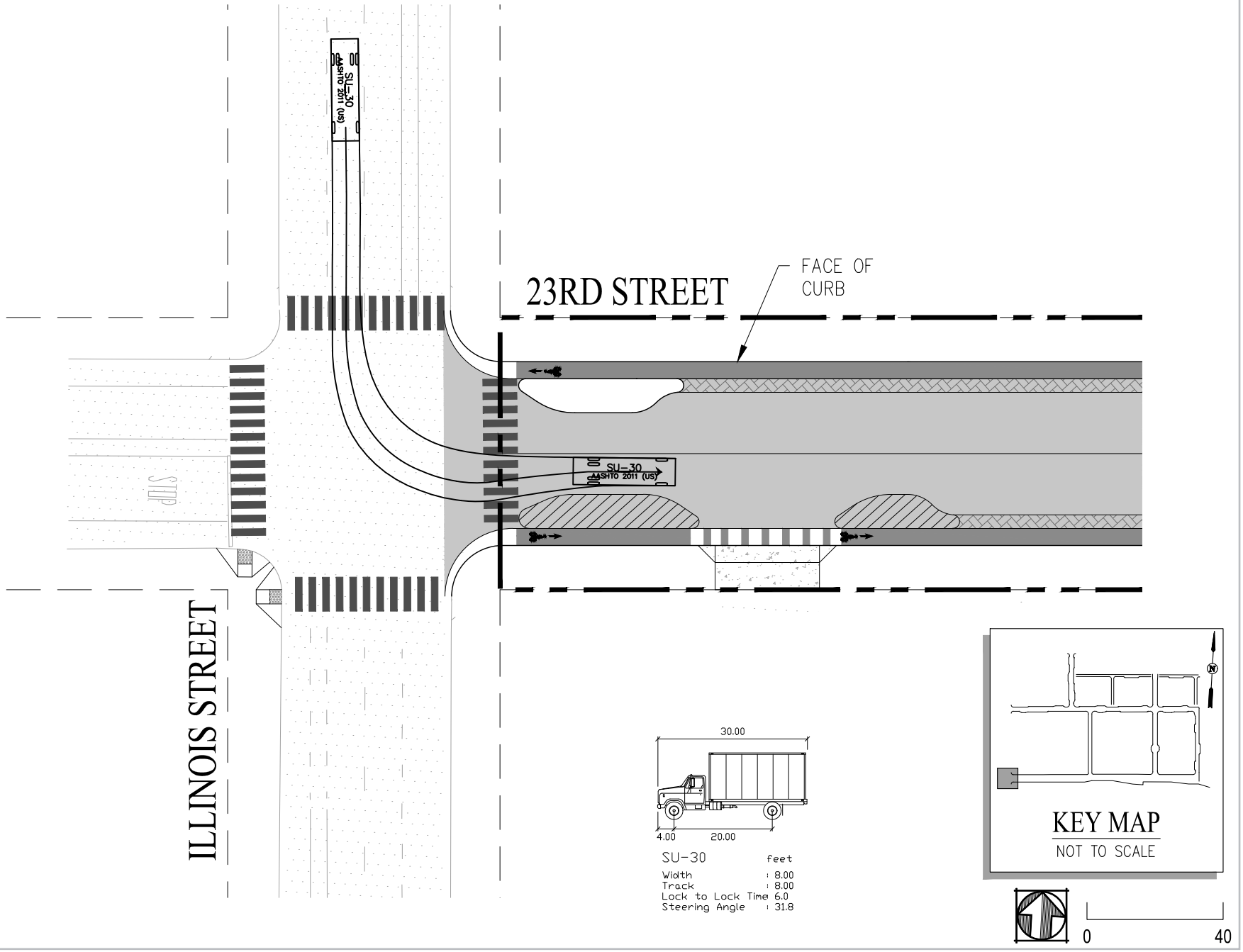


0 40

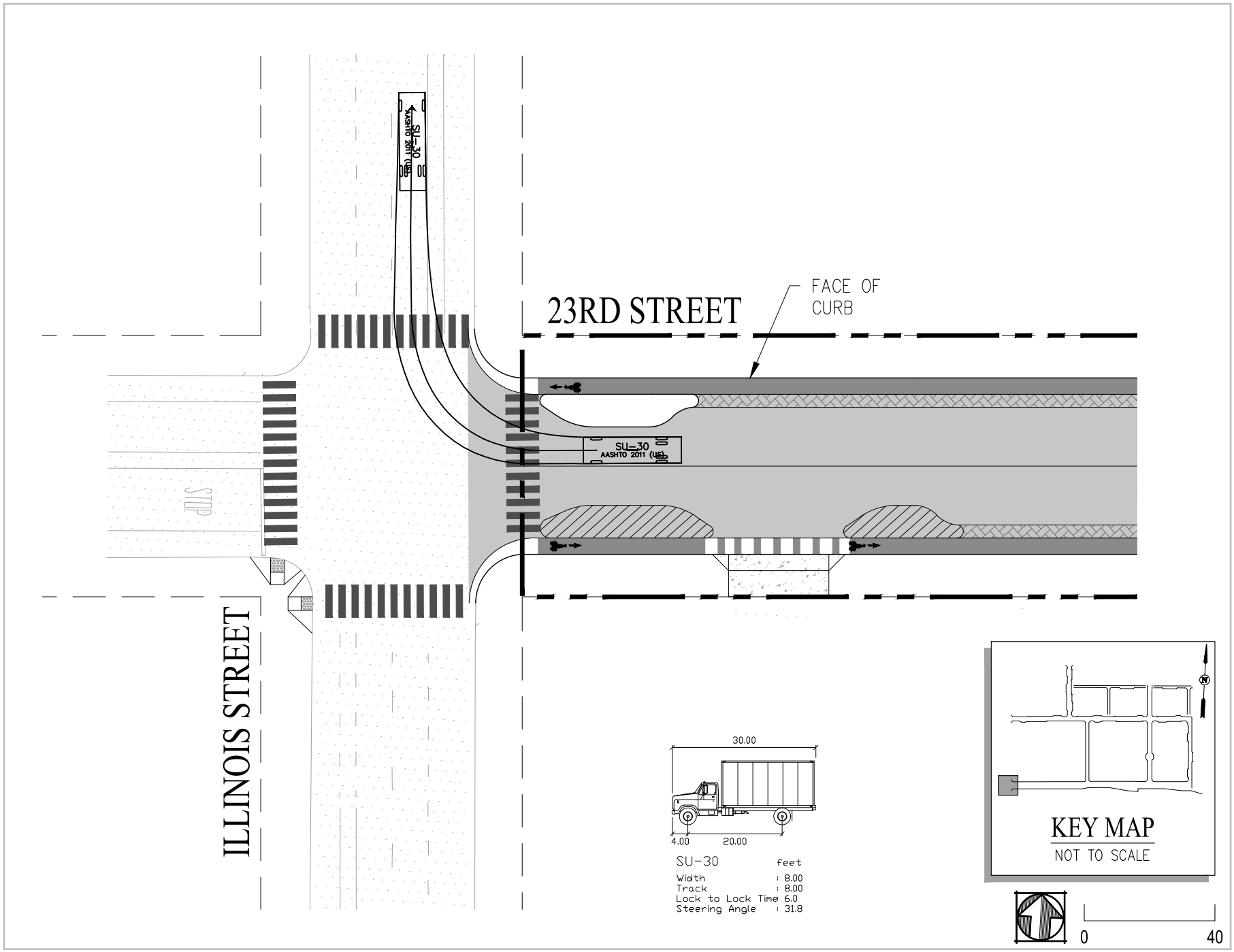
Appendix E Large Vehicle Movements – SU 30



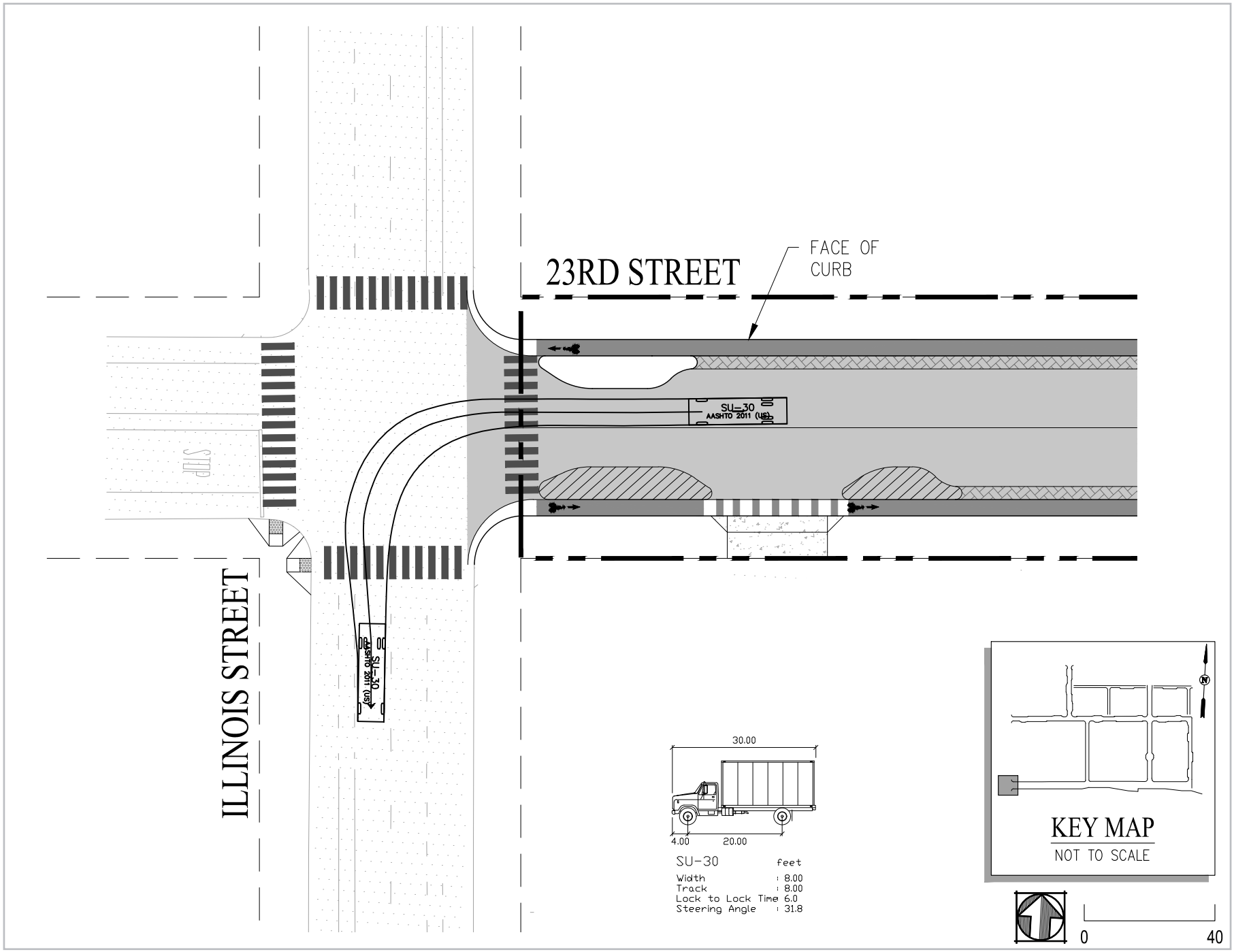
Appendix E Large Vehicle Movements – SU 30



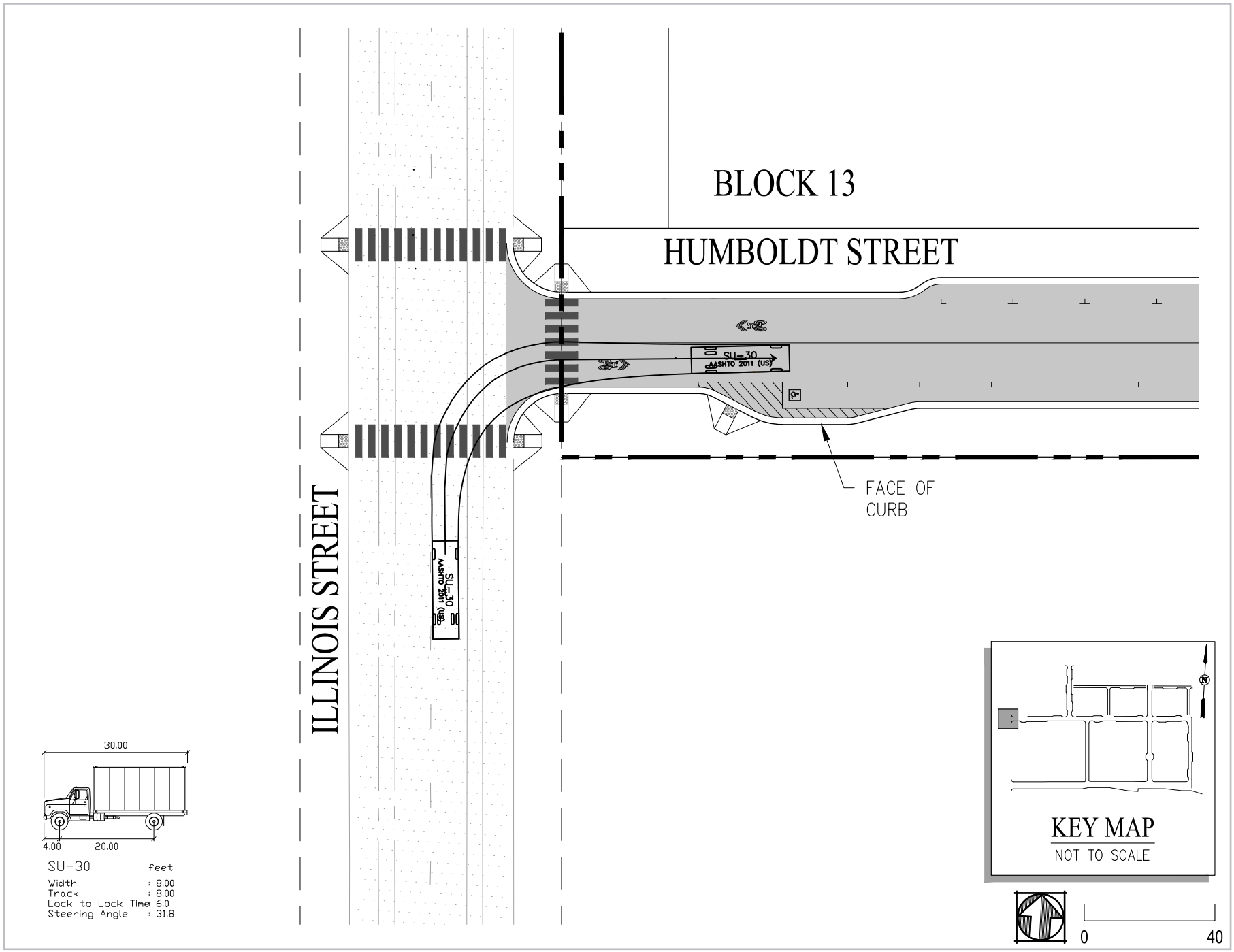
Appendix E Large Vehicle Movements – SU 30

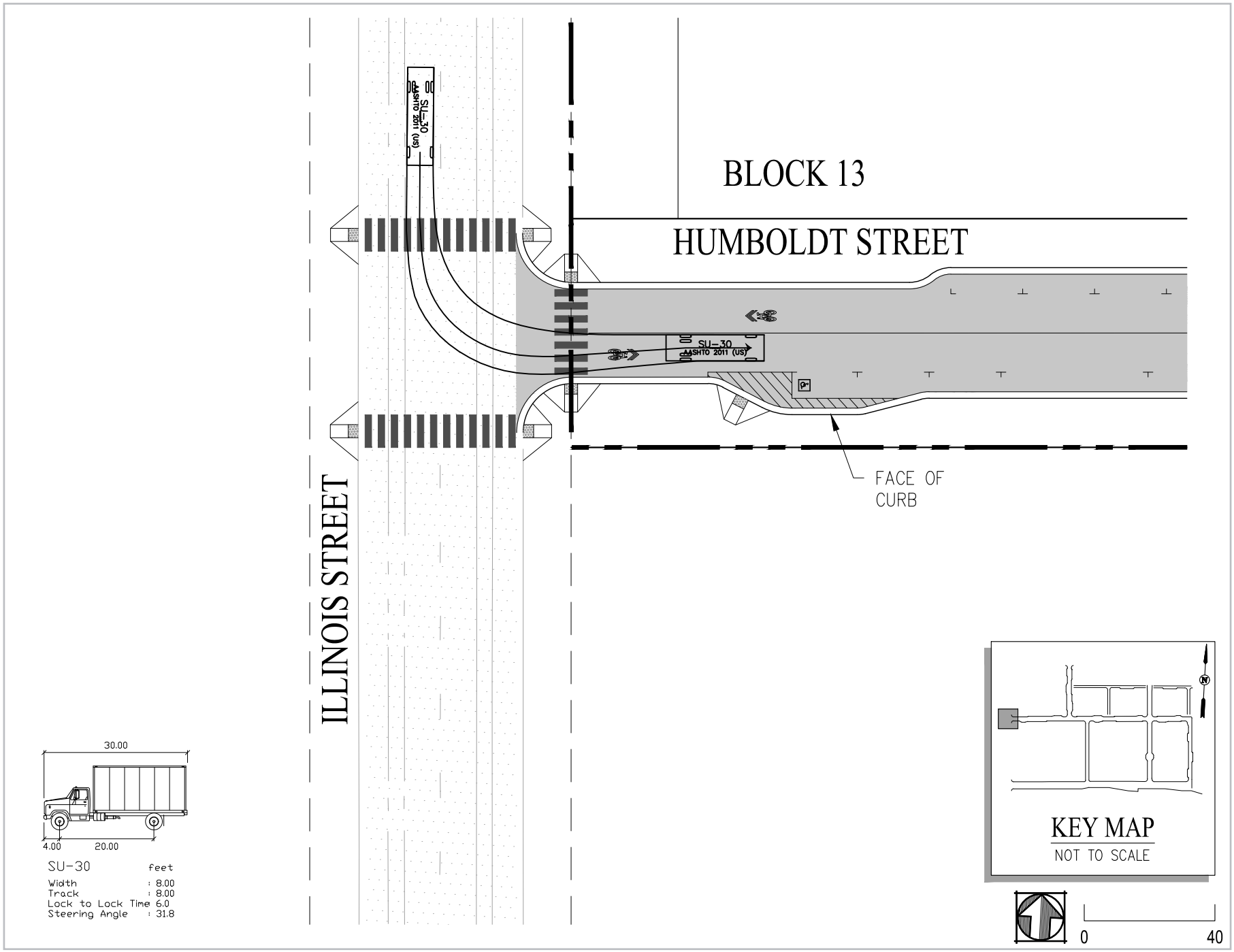


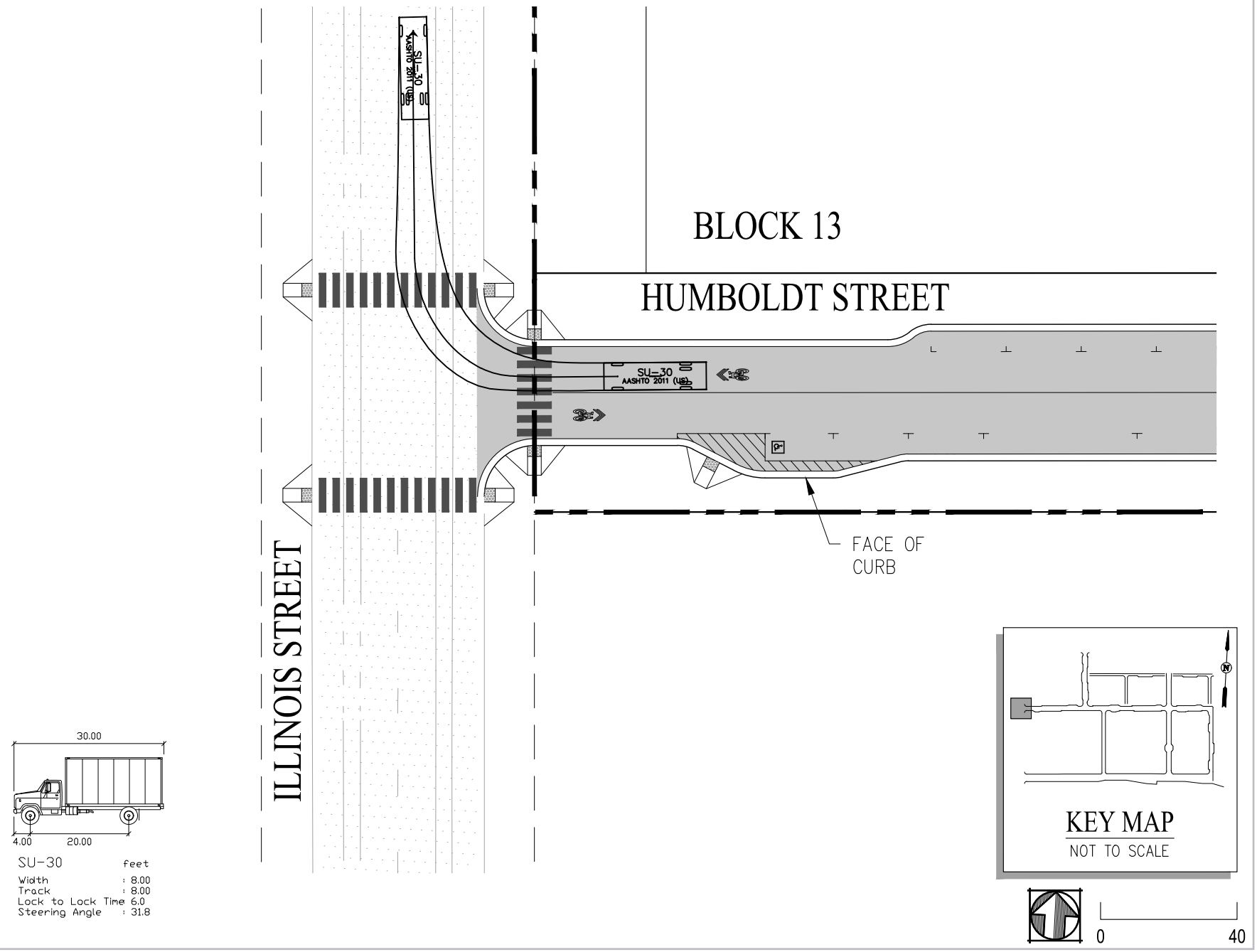
Appendix E Large Vehicle Movements – SU 30

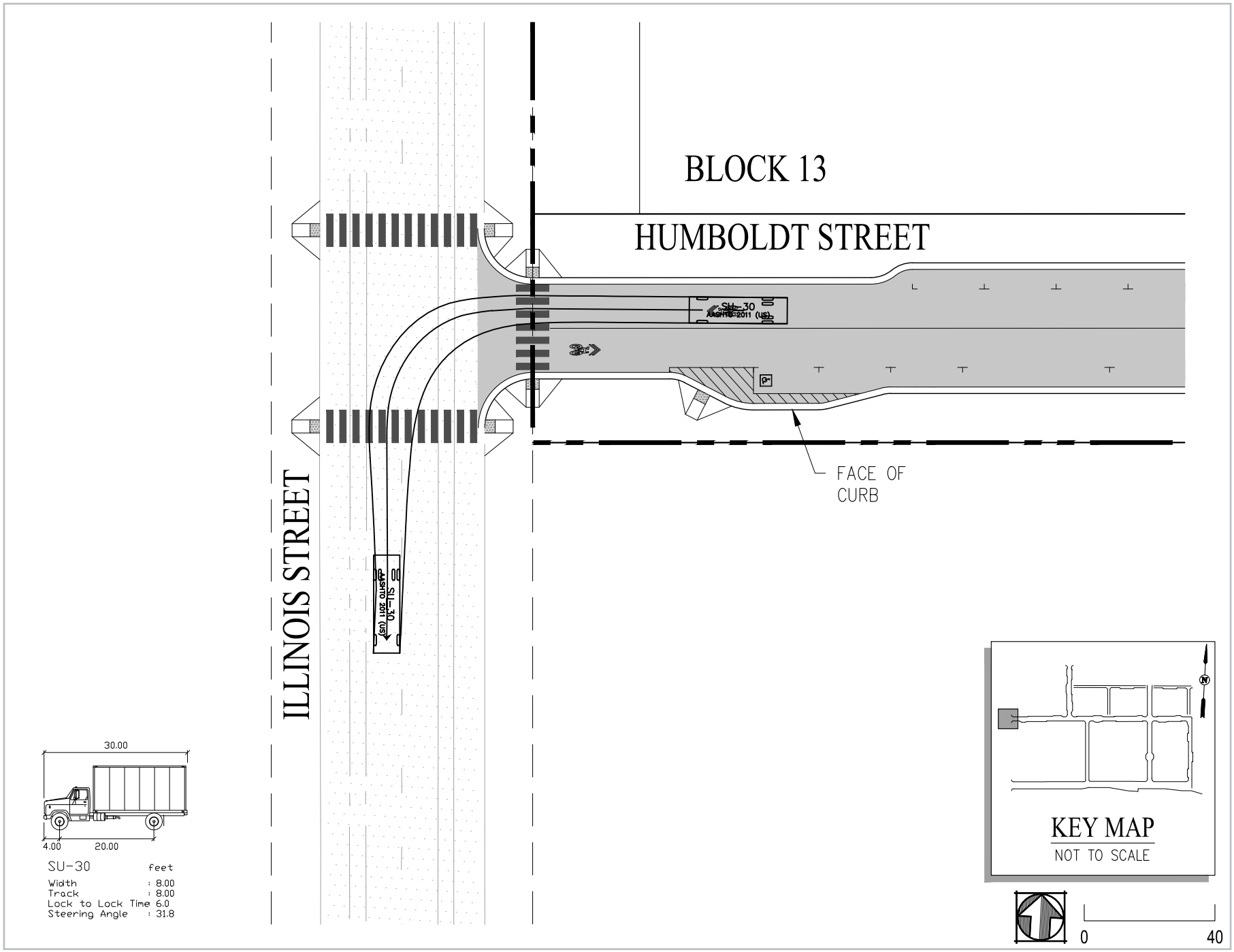


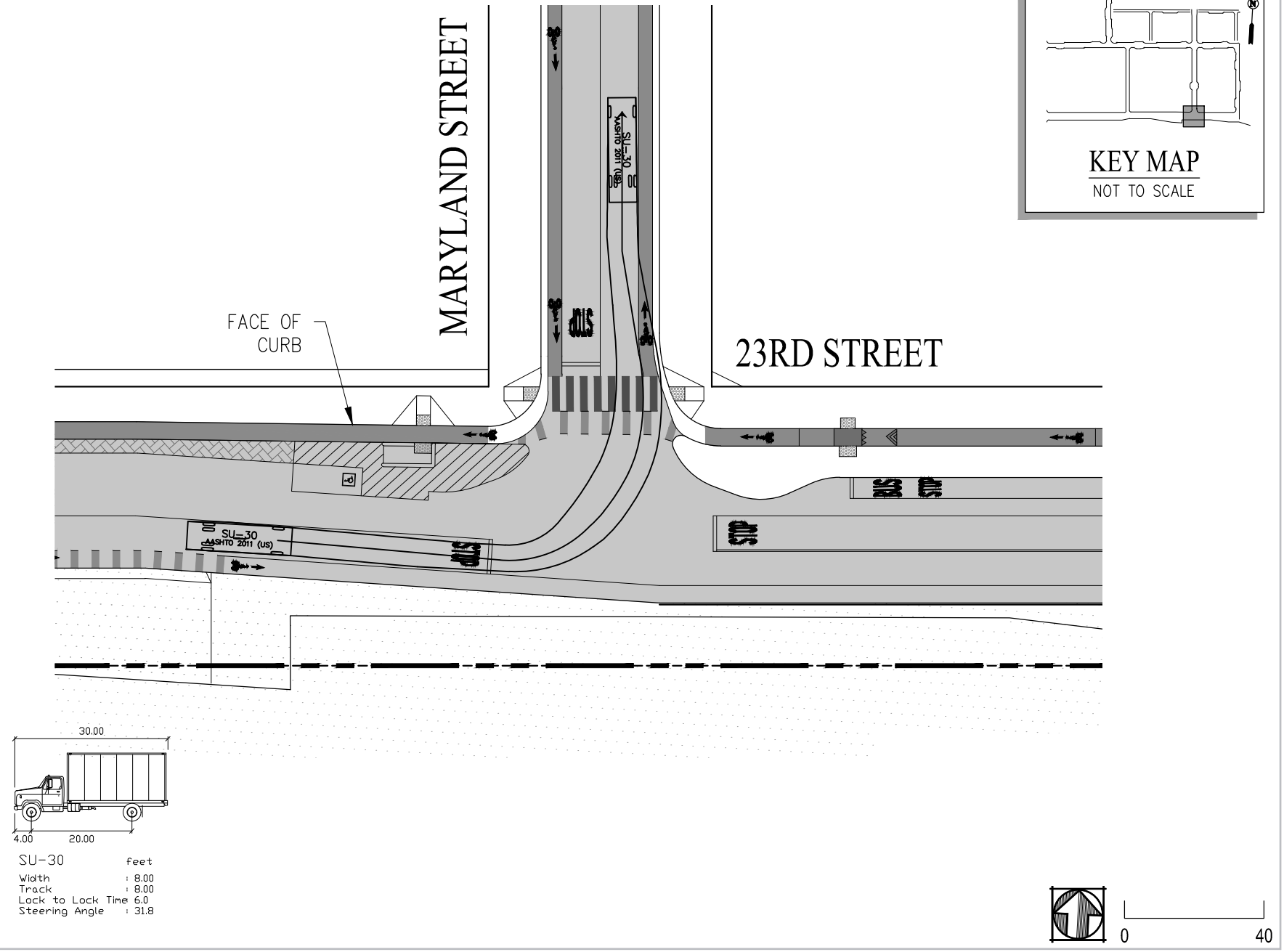
Appendix E Large Vehicle Movements – SU 30


BLOCK 13
HUMBOLDT STREET
ILLINOIS STREET
SU-30
AASHTO 2011 (US)
SU-30
AASHTO 2011 (US)
FACE OF
CURB
30.00
4.00
20.00
SU-30
feet
Width : 8.00
Track : 8.00
Lock to Lock Time 6.0
Steering Angle : 31.8
KEY MAP
NOT TO SCALE
0
40

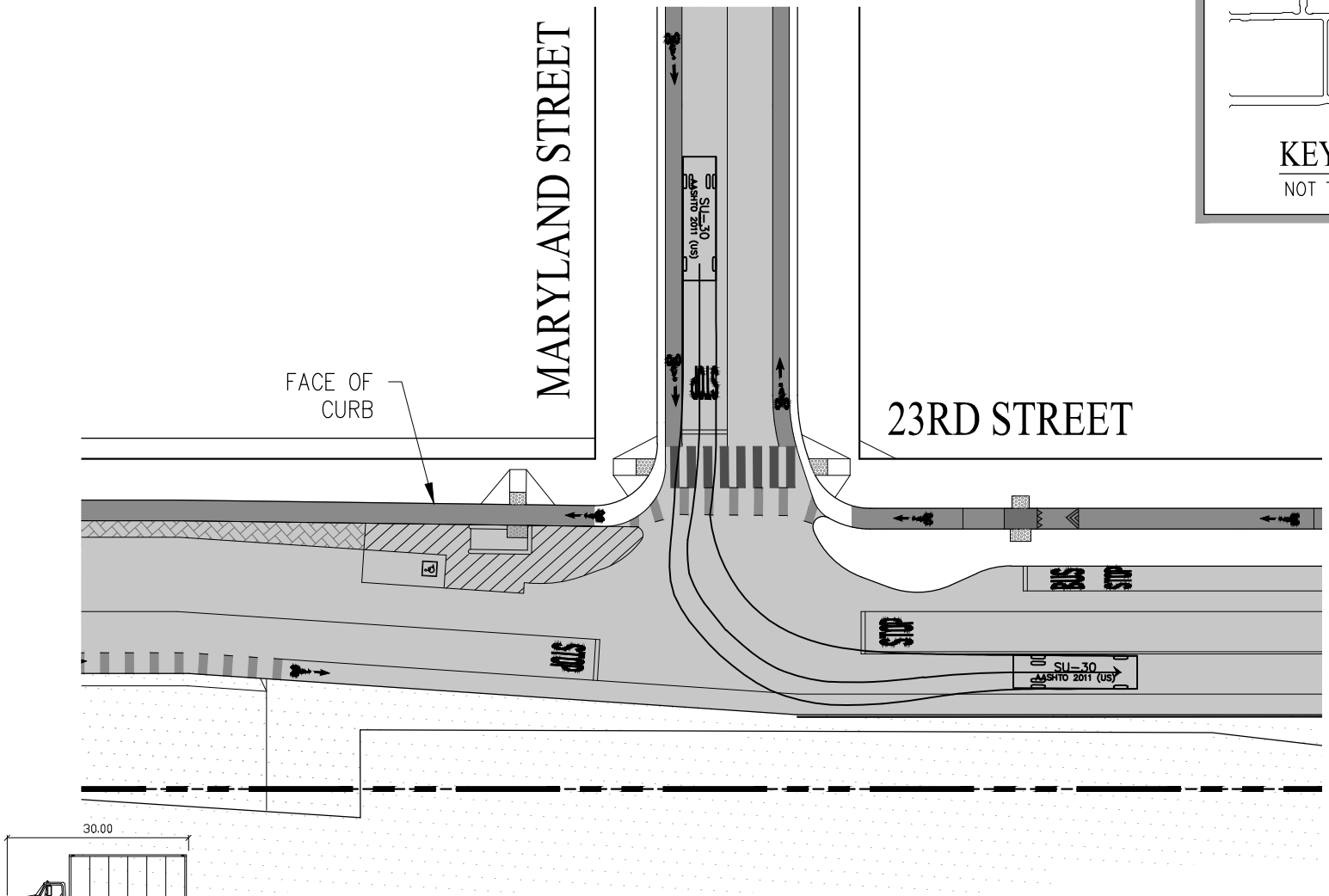

BLOCK 13
HUMBOLDT STREET
ILLINOIS STREET
SU-30
AASHTO 2011 (US)
FACE OF
CURB
30.00
4.00
20.00
SU-30 feet
Width : 8.00
Track : 8.00
Lock to Lock Time 6.0
Steering Angle : 31.8
KEY MAP
NOT TO SCALE
0
40


BLOCK 13
HUMBOLDT STREET
ILLINOIS STREET
SU-30
AASHTO 2011 (US)
FACE OF
CURB
KEY MAP
NOT TO SCALE
0
40
30.00
4.00
20.00
SU-30 feet
Width : 8.00
Track : 8.00
Lock to Lock Time 6.0
Steering Angle : 31.8

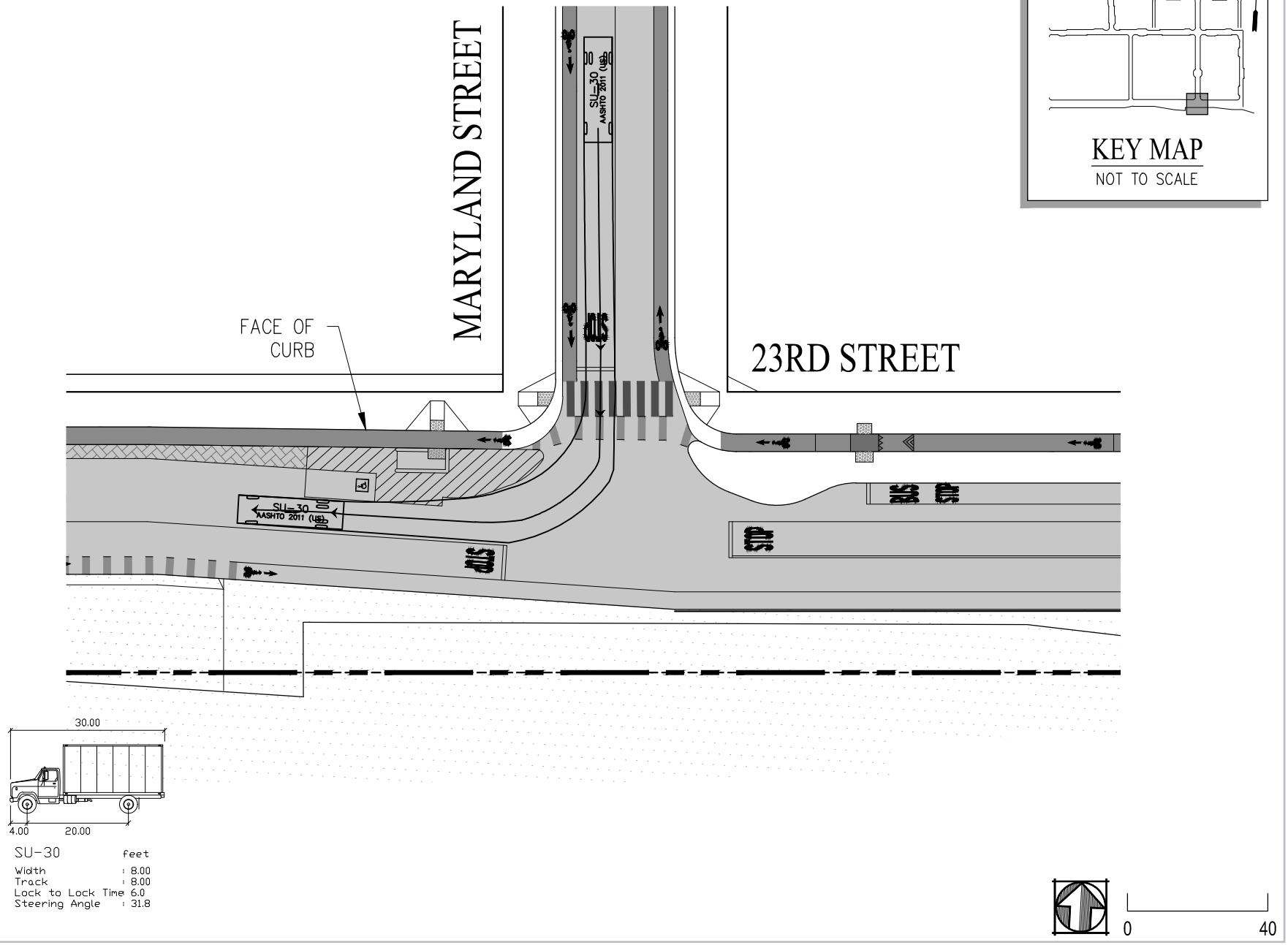

BLOCK 13
HUMBOLDT STREET
ILLINOIS STREET
FACE OF CURB
SU-30
AASHTO 2011 (US)
30.00
4.00
20.00
SU-30
feet
Width : 8.00
Track : 8.00
Lock to Lock Time 6.0
Steering Angle : 31.8
KEY MAP
NOT TO SCALE
0
40



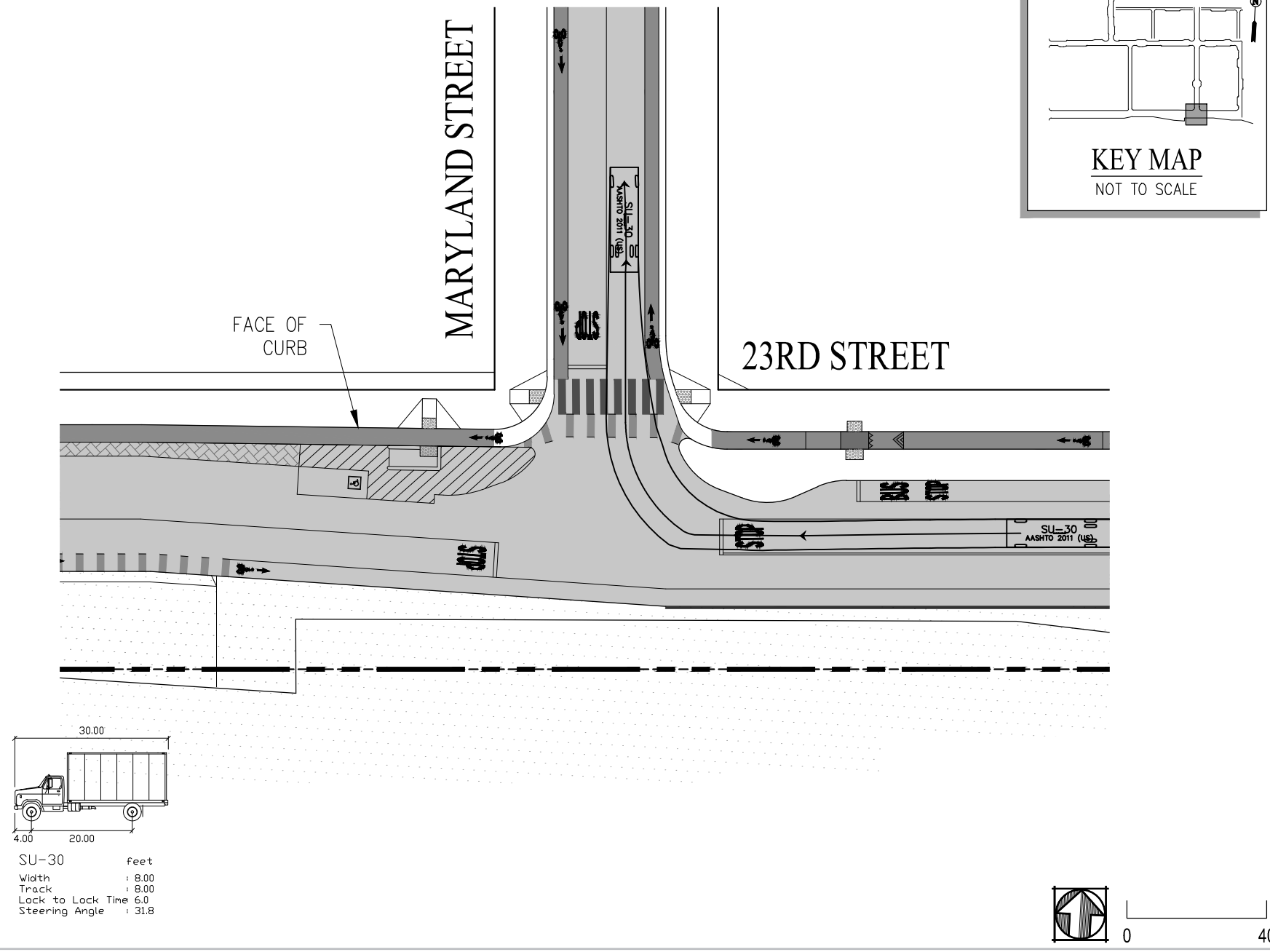
Appendix E Large Vehicle Movements – SU 30



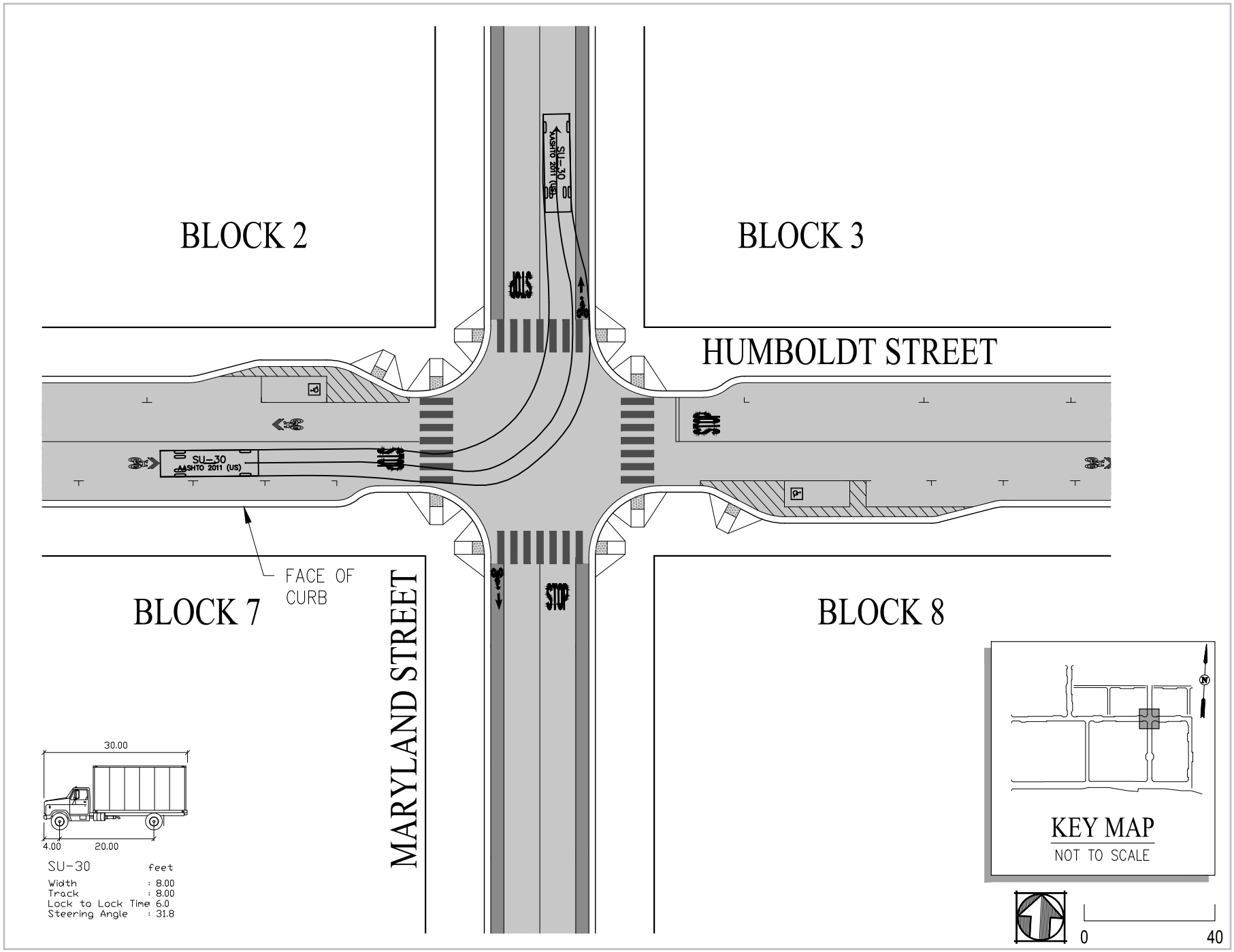
Appendix E Large Vehicle Movements – SU 30



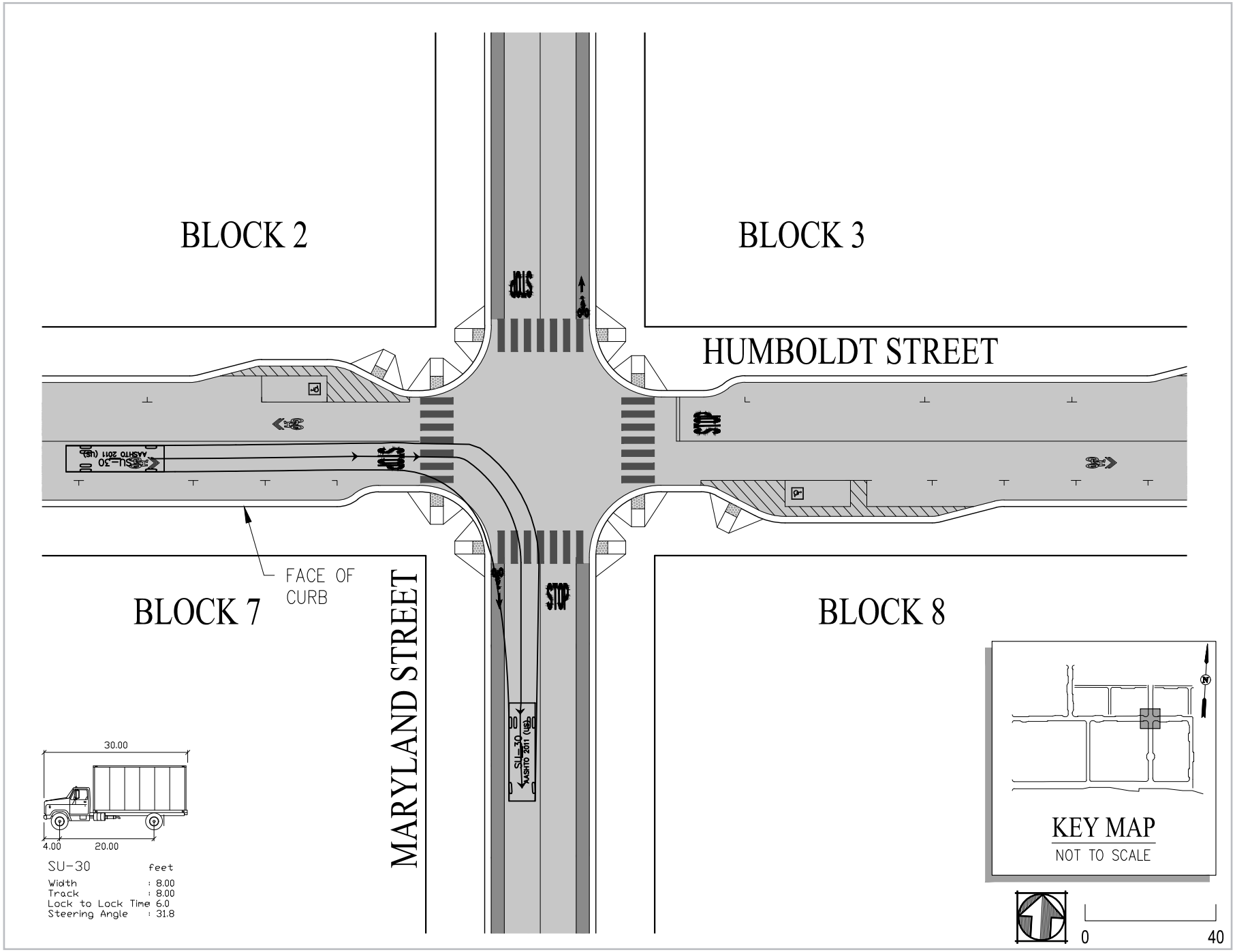
Appendix E Large Vehicle Movements – SU 30



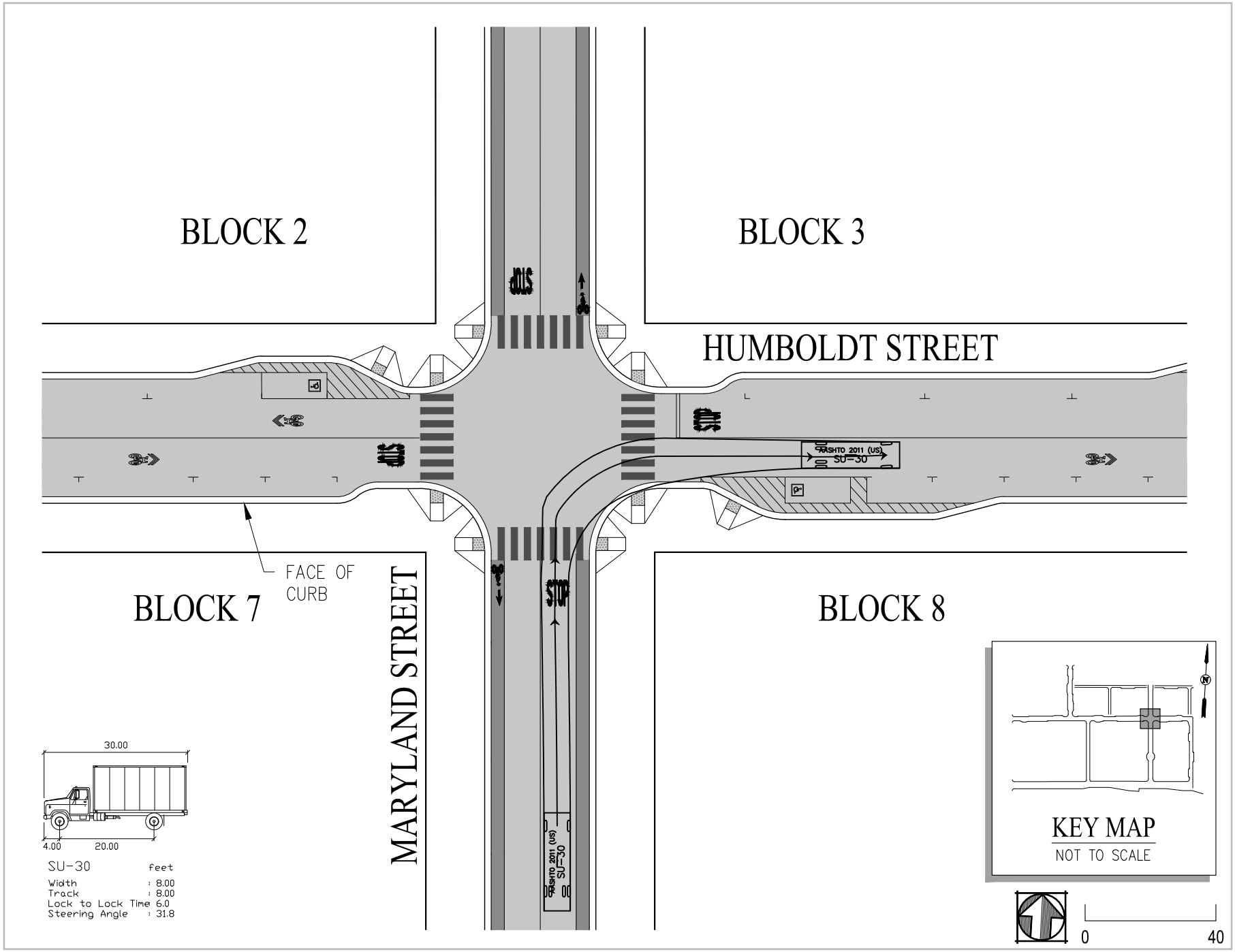
Appendix E Large Vehicle Movements – SU 30



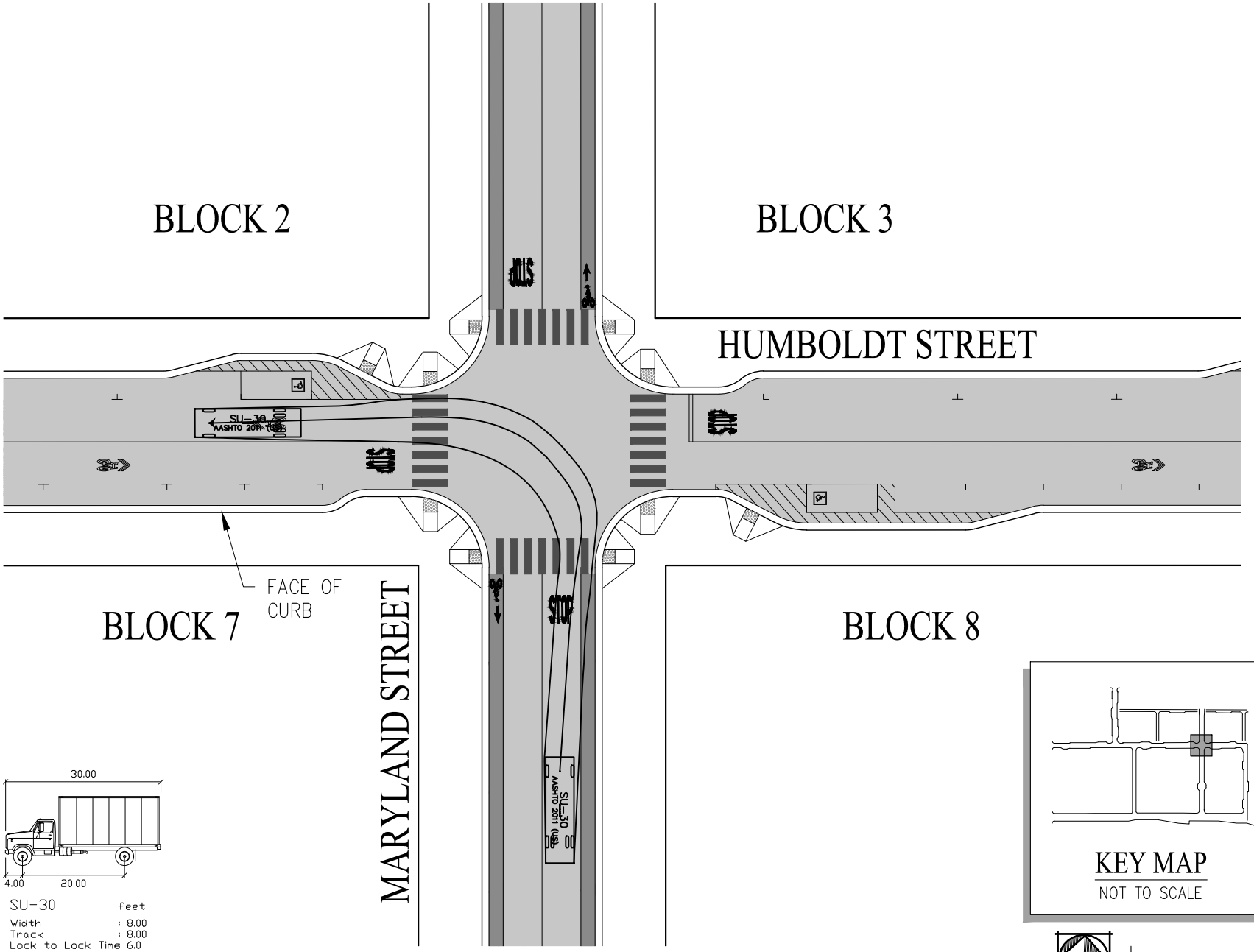
Appendix E Large Vehicle Movements – SU 30

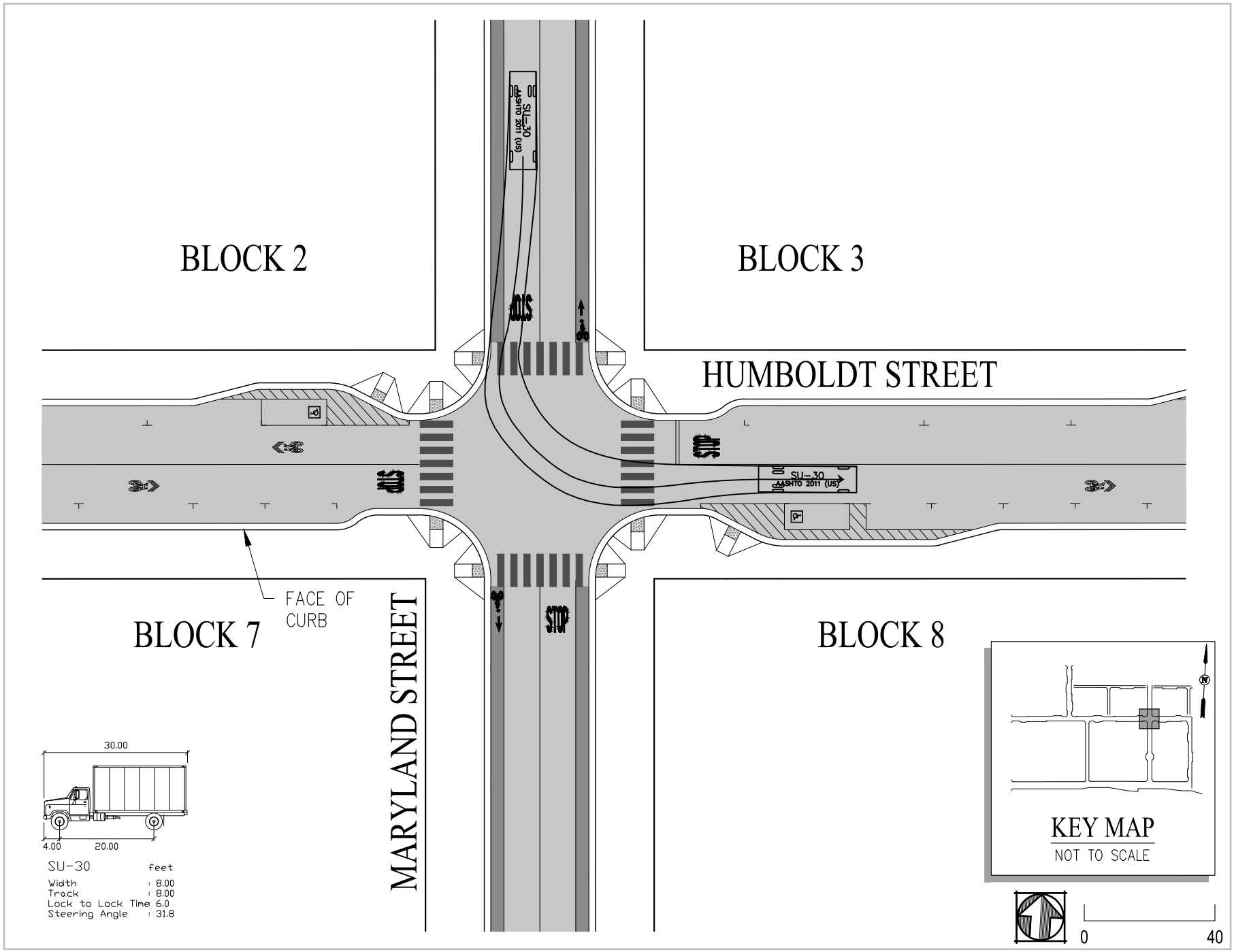


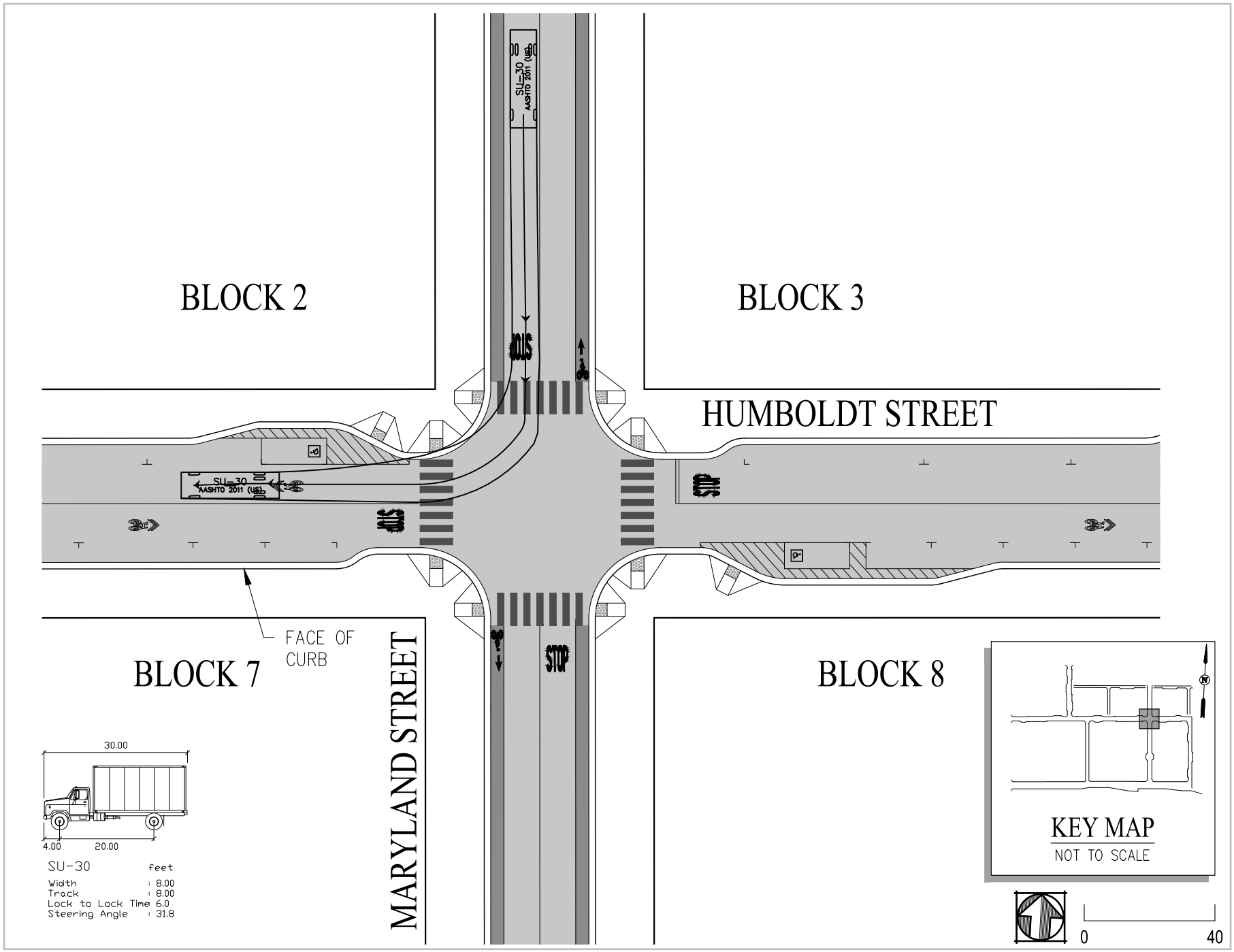
Appendix E Large Vehicle Movements – SU 30

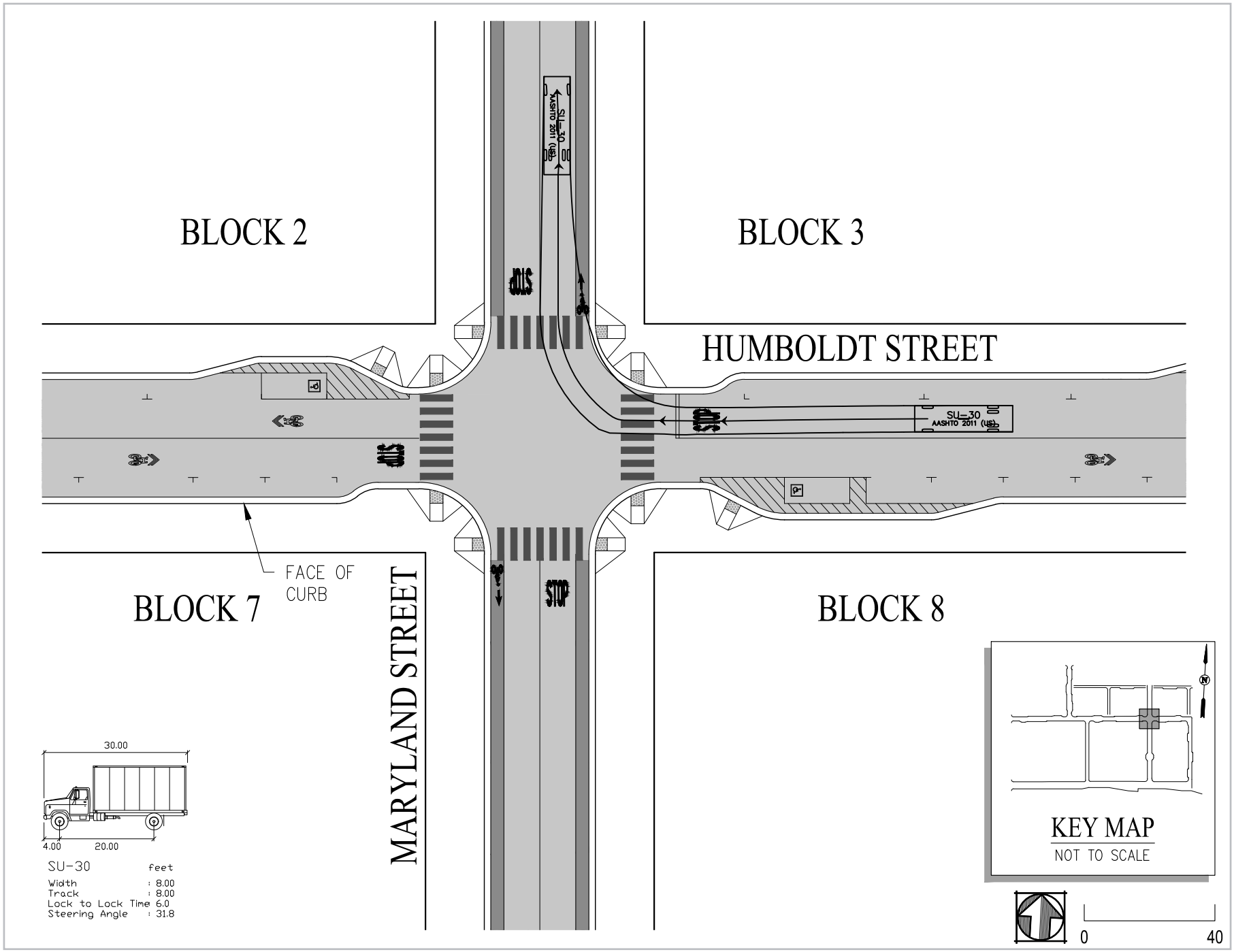


Appendix E Large Vehicle Movements – SU 30

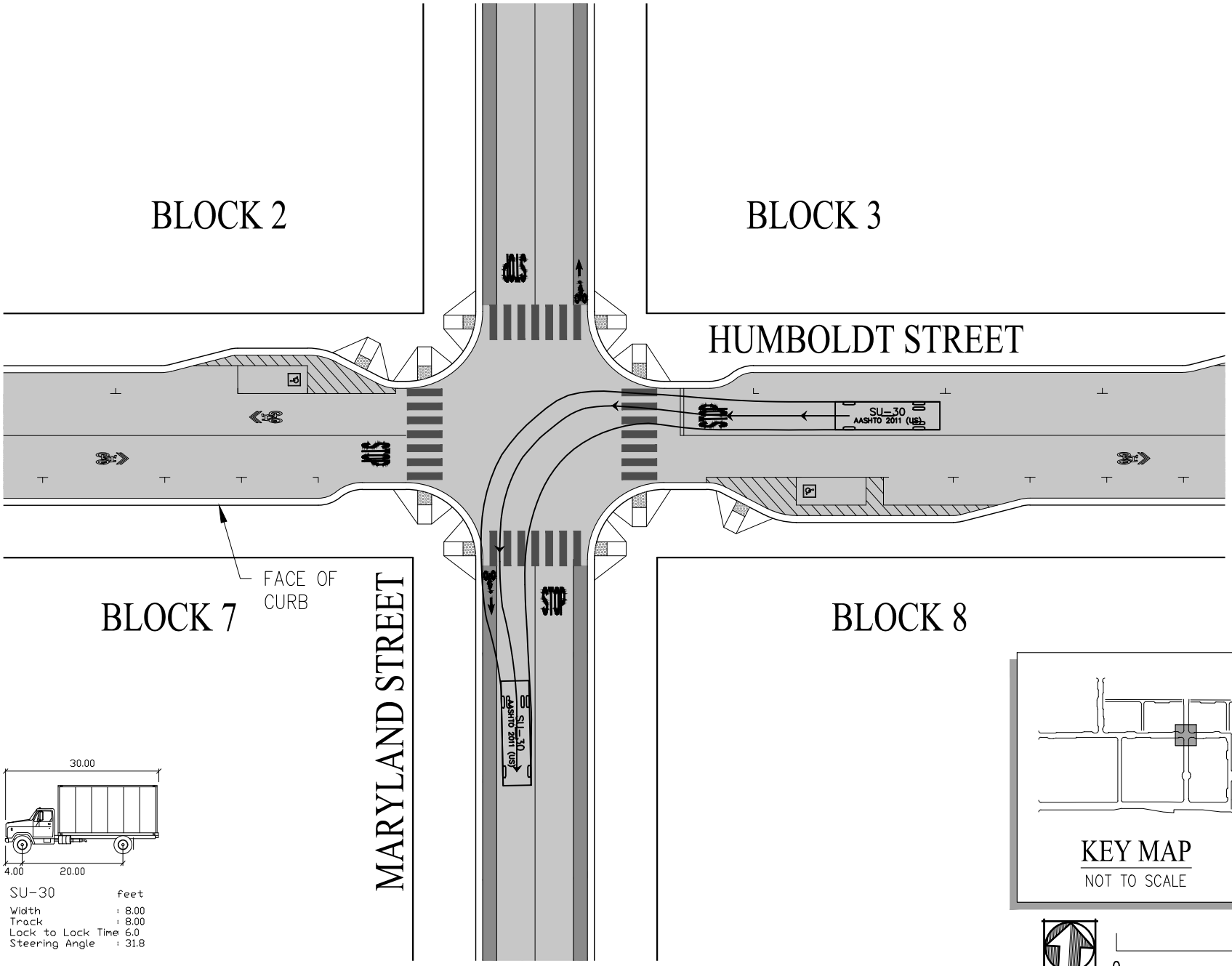

BLOCK 2
BLOCK 3
HUMBOLDT STREET
FACE OF CURB
BLOCK 7
BLOCK 8
MARYLAND STREET
SU-30
AASHTO 2011 (US)
30.00
4.00
20.00
SU-30 feet
Width : 8.00
Track : 8.00
Lock to Lock Time 6.0
Steering Angle : 31.8
KEY MAP
NOT TO SCALE
0
40


BLOCK 2
BLOCK 3
HUMBOLDT STREET
SU-30
AASHTO 2011 (US)
FACE OF CURB
BLOCK 7
BLOCK 8
MARYLAND STREET
STOP
30.00
4.00
20.00
SU-30 feet
Width : 8.00
Track : 8.00
Lock to Lock Time 6.0
Steering Angle : 31.8
KEY MAP
NOT TO SCALE
0
40

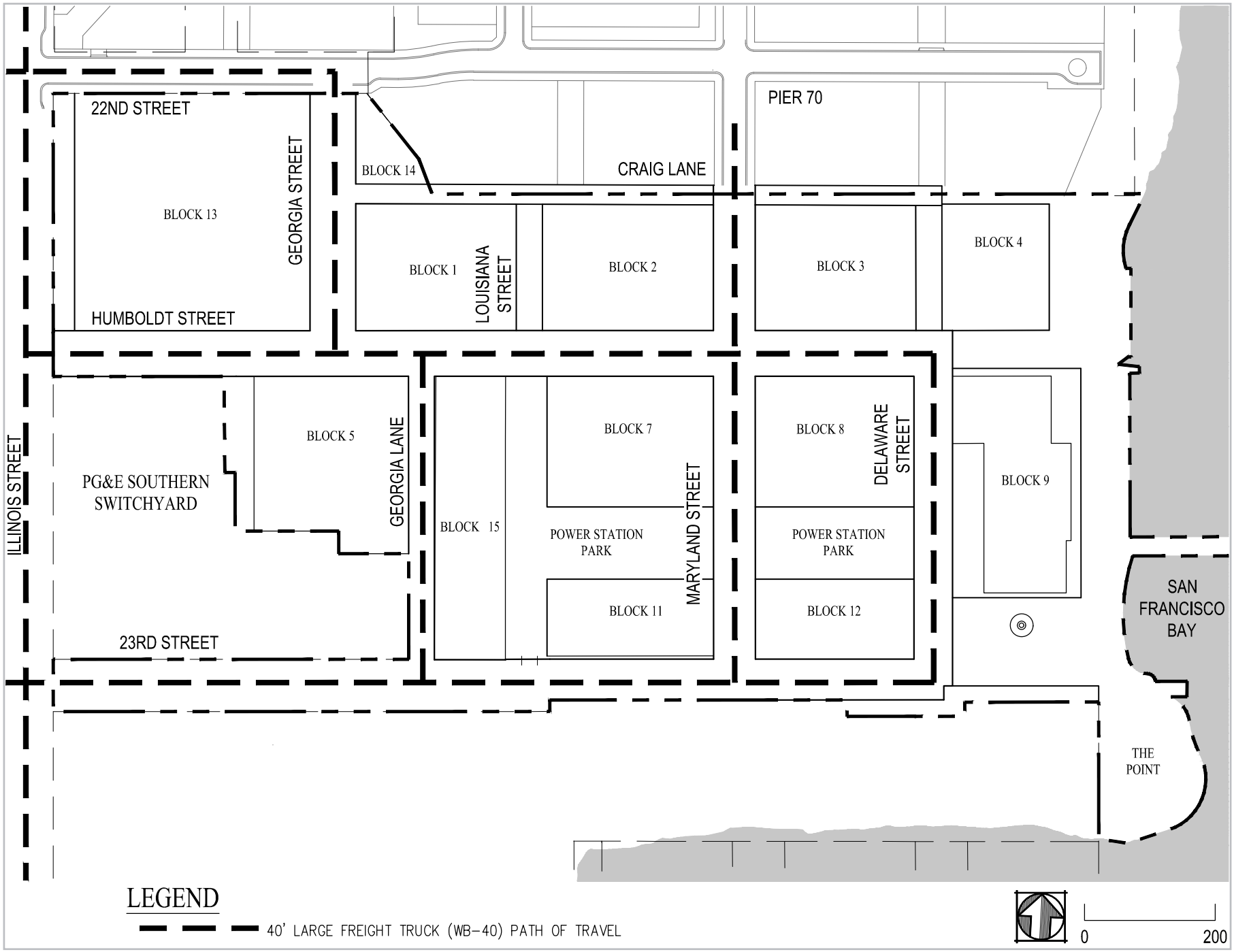

BLOCK 2
BLOCK 3
HUMBOLDT STREET
SU-30
AASHTO 2011 (US)
FACE OF CURB
BLOCK 7
MARYLAND STREET
STOP
BLOCK 8
30.00
4.00
20.00
SU-30 feet
Width : 8.00
Track : 8.00
Lock to Lock Time 6.0
Steering Angle : 31.8
KEY MAP
NOT TO SCALE
0
40



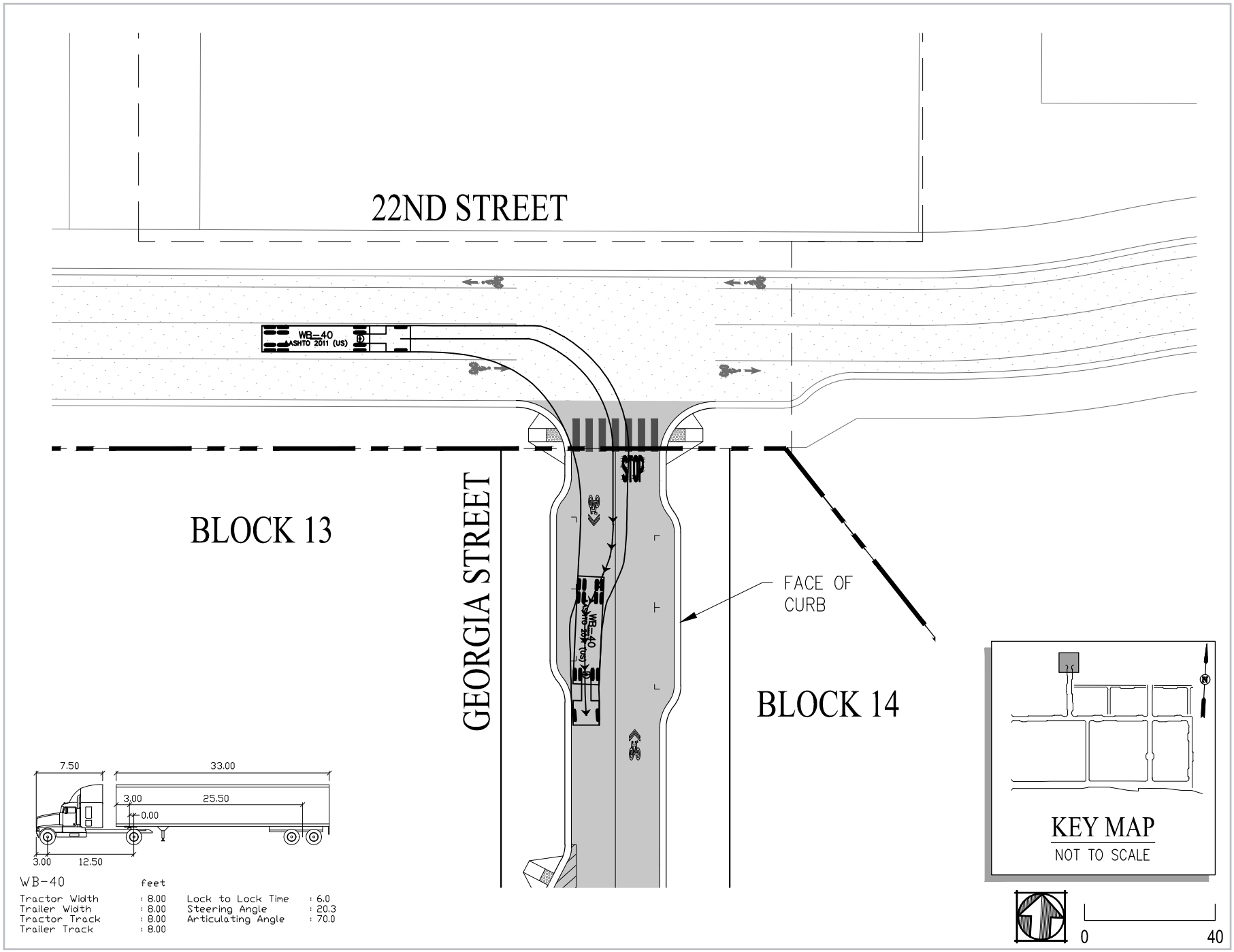
Appendix E Large Vehicle Movements – SU 30

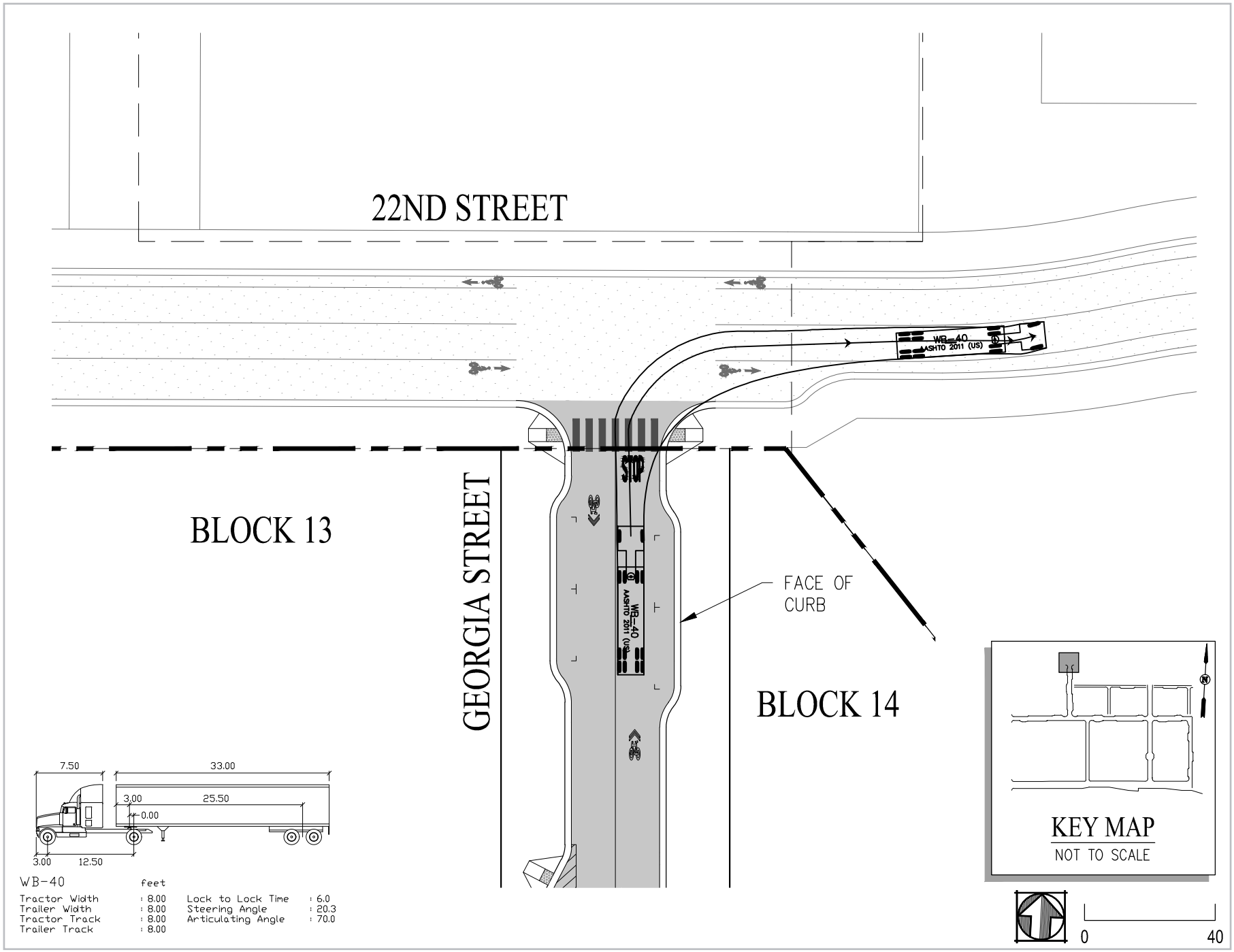


Appendix E Large Vehicle Movements – SU 30

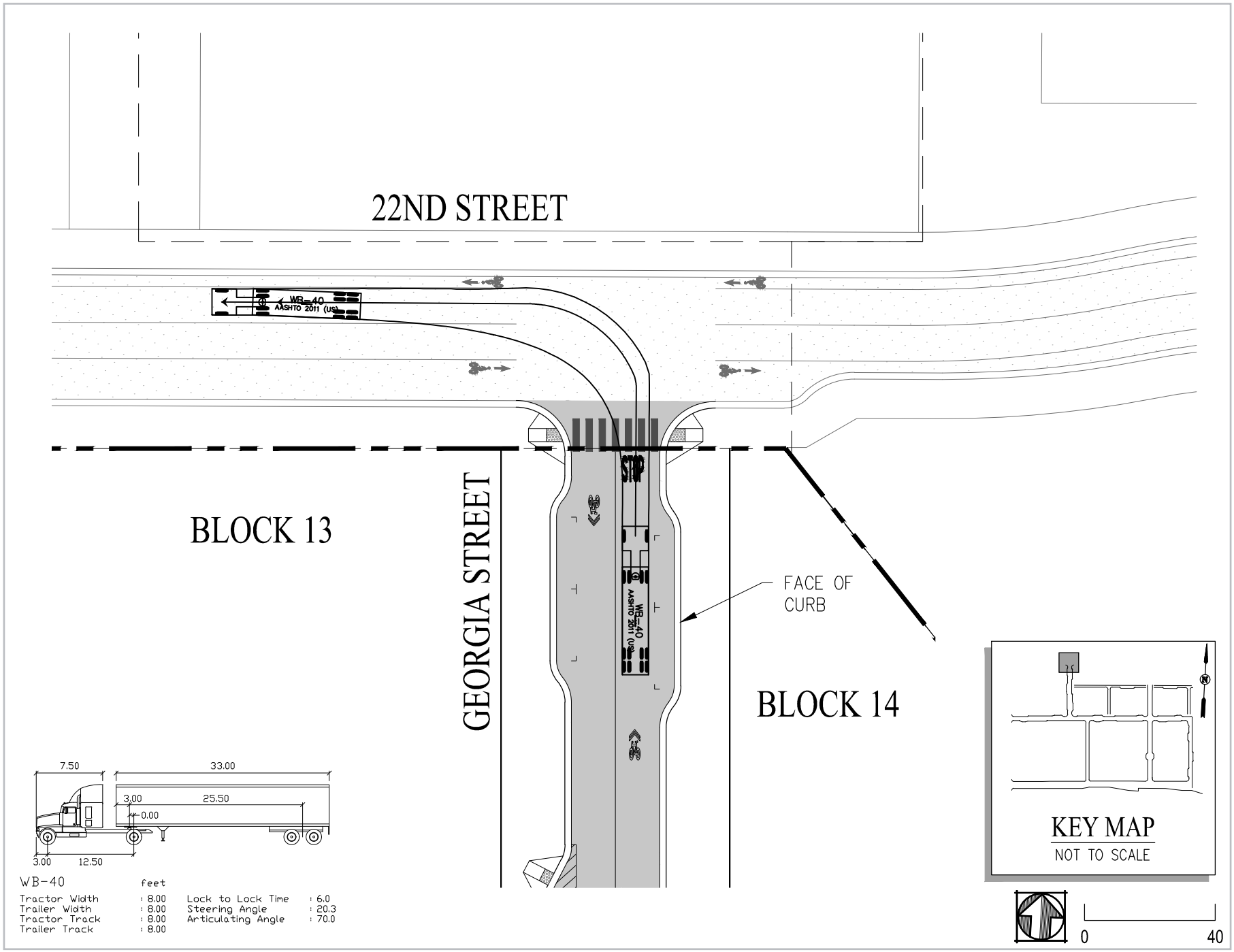


Appendix E Large Vehicle Movements – WB 40

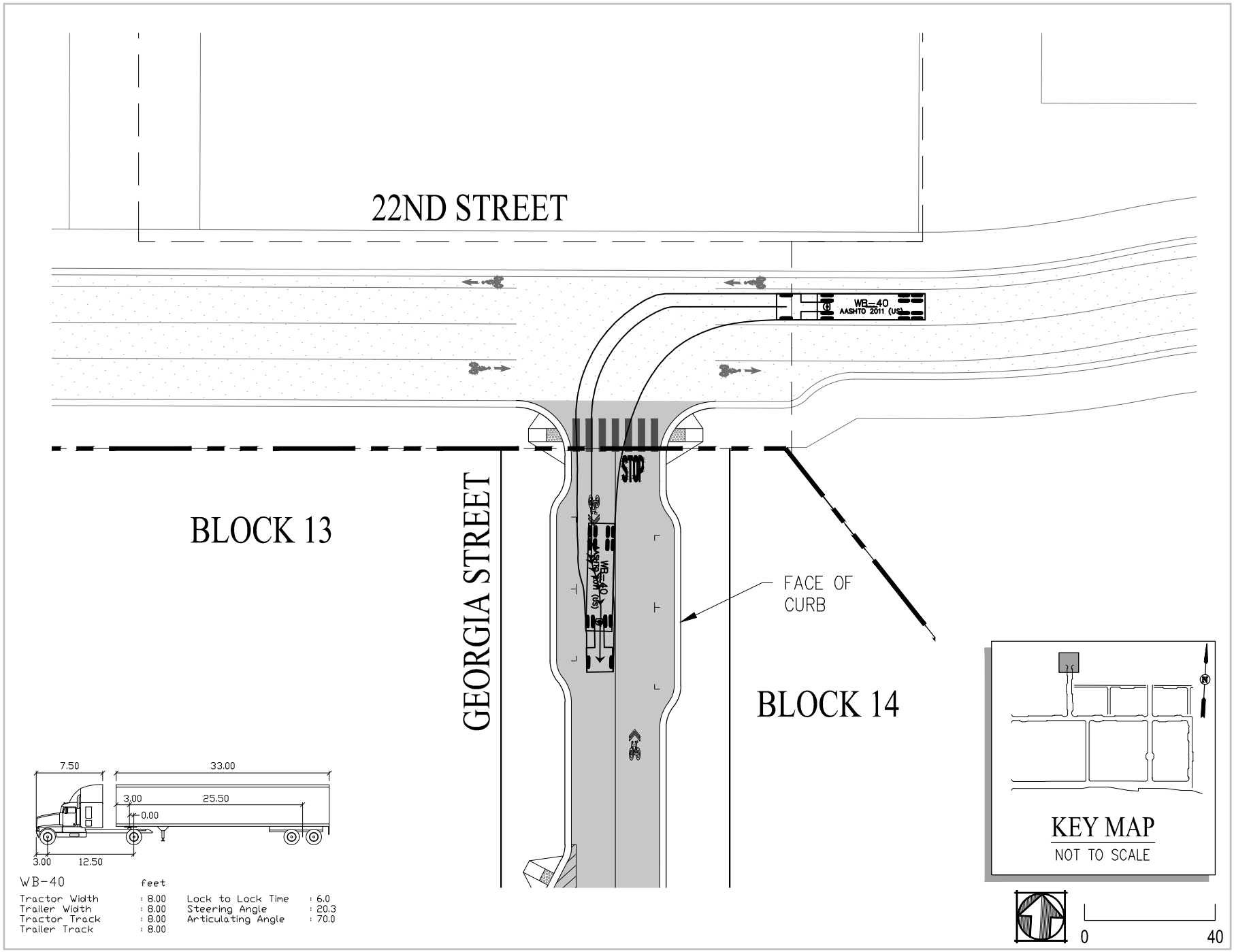

22ND STREET
WB-40
AASHTO 2011 (US)
BLOCK 13
GEORGIA STREET
STOP
FACE OF
CURB
BLOCK 14
KEY MAP
NOT TO SCALE
0
40
7.50
33.00
3.00
25.50
0.00
3.00
12.50
WB-40
feet
Tractor Width : 8.00
Trailer Width : 8.00
Tractor Track : 8.00
Trailer Track : 8.00
Lock to Lock Time : 6.0
Steering Angle : 20.3
Articulating Angle : 70.0



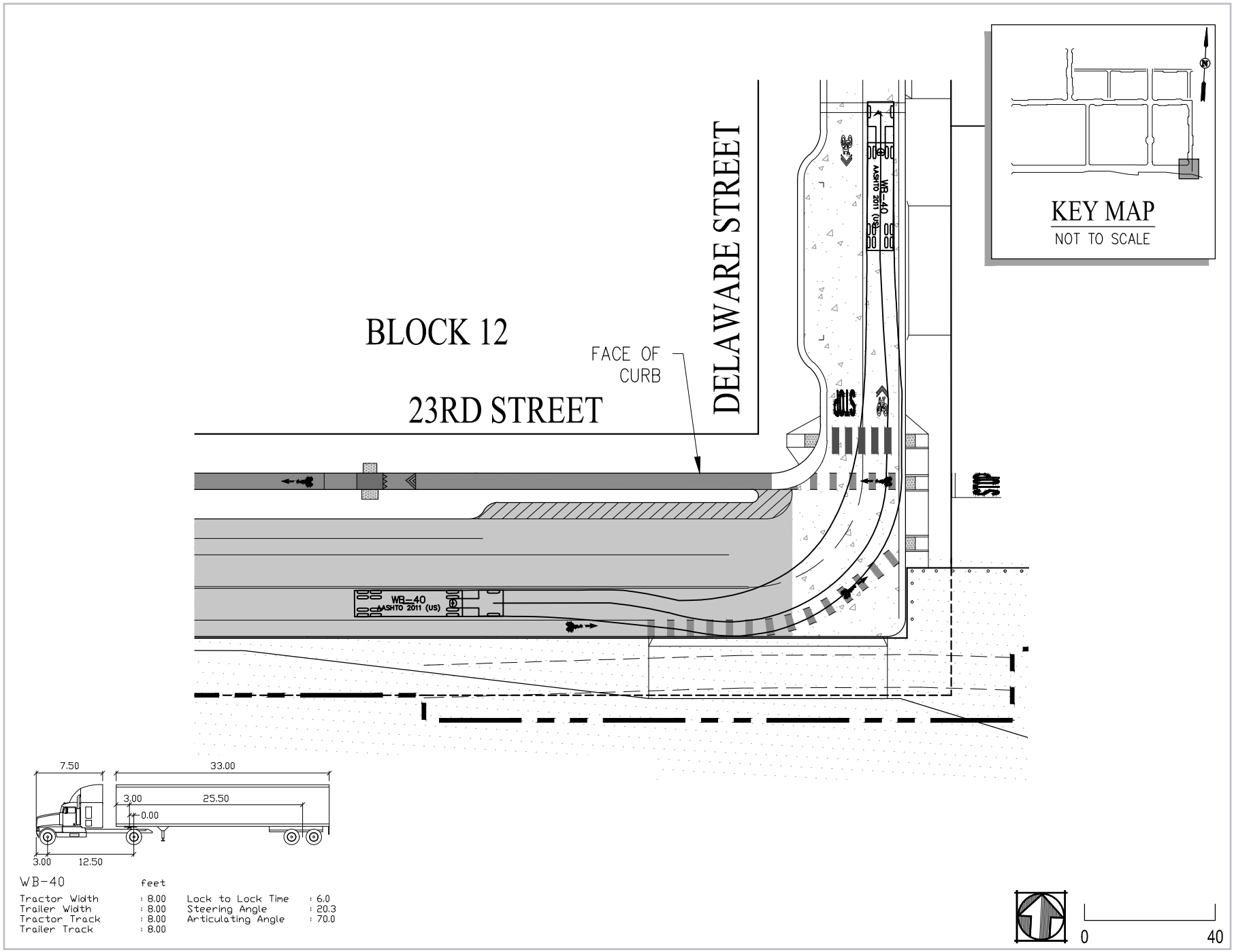
Appendix E Large Vehicle Movements – WB 40

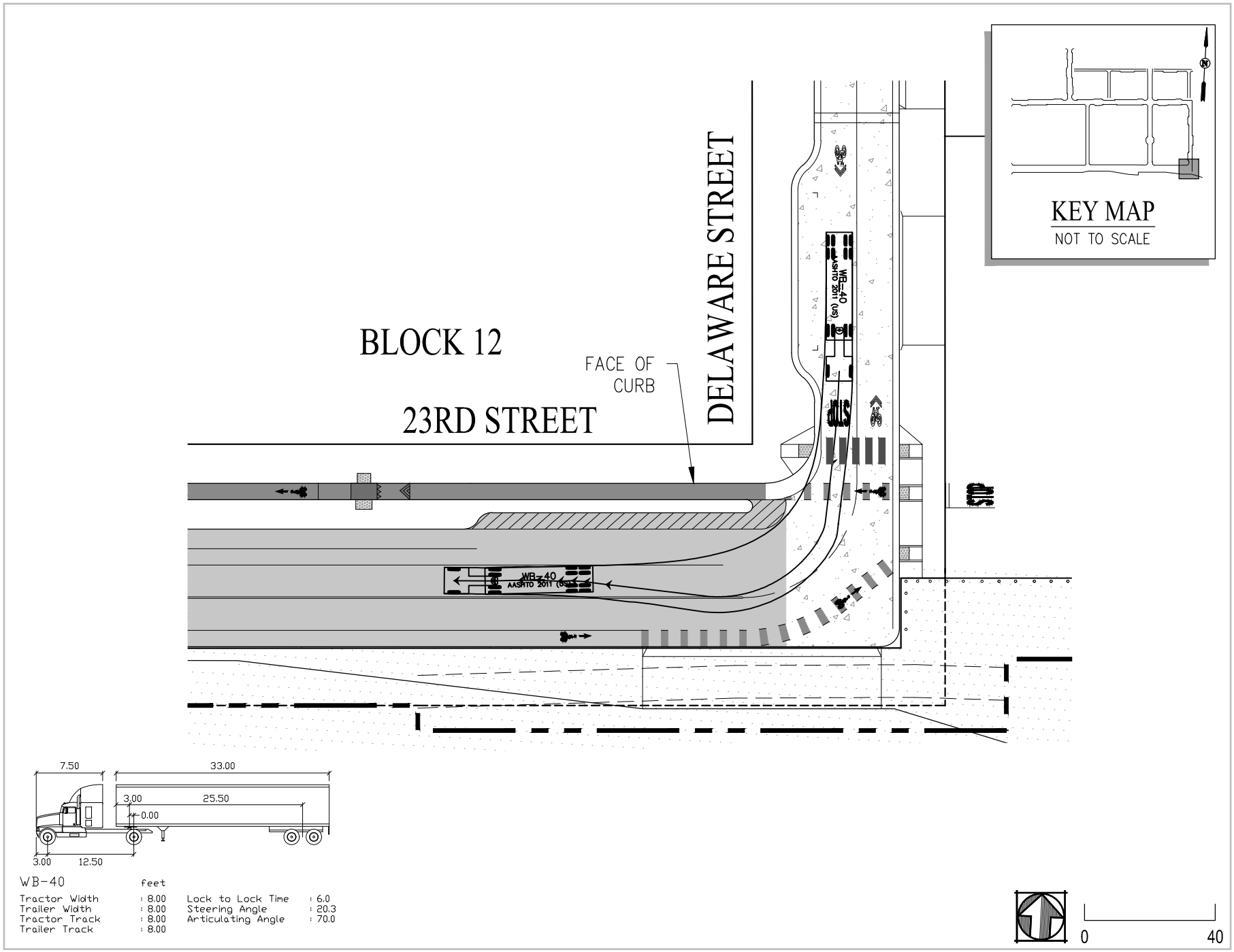


Appendix E Large Vehicle Movements – WB 40

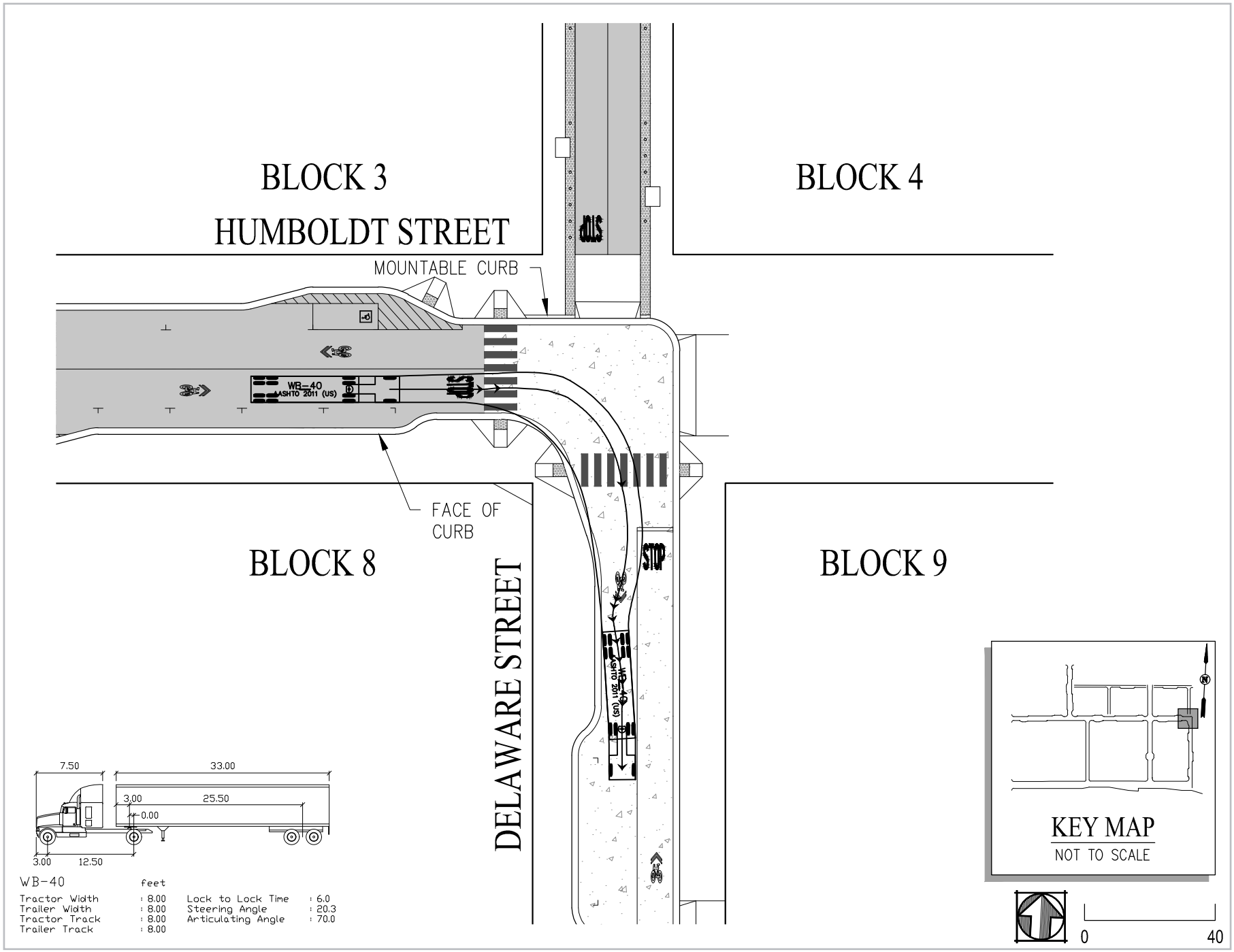


Appendix E Large Vehicle Movements – WB 40

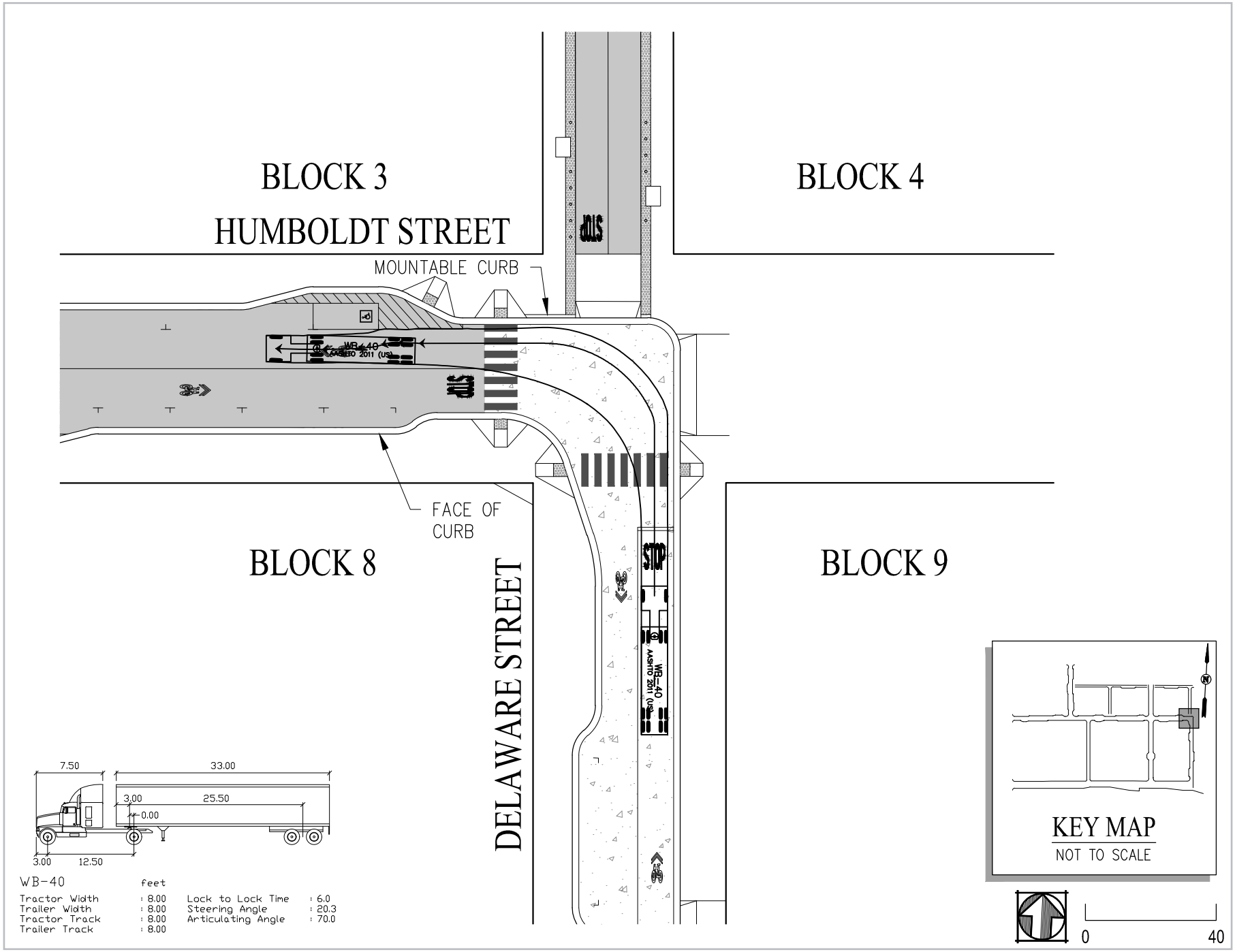

KEY MAP
NOT TO SCALE
BLOCK 12
23RD STREET
FACE OF CURB
DELAWARE STREET
WB-40
AASHTO 2011 (US)
7.50
33.00
3.00
25.50
0.00
3.00
12.50
WB-40
feet
Tractor Width : 8.00
Trailer Width : 8.00
Tractor Track : 8.00
Trailer Track : 8.00
Lock to Lock Time : 6.0
Steering Angle : 20.3
Articulating Angle : 70.0
0
40



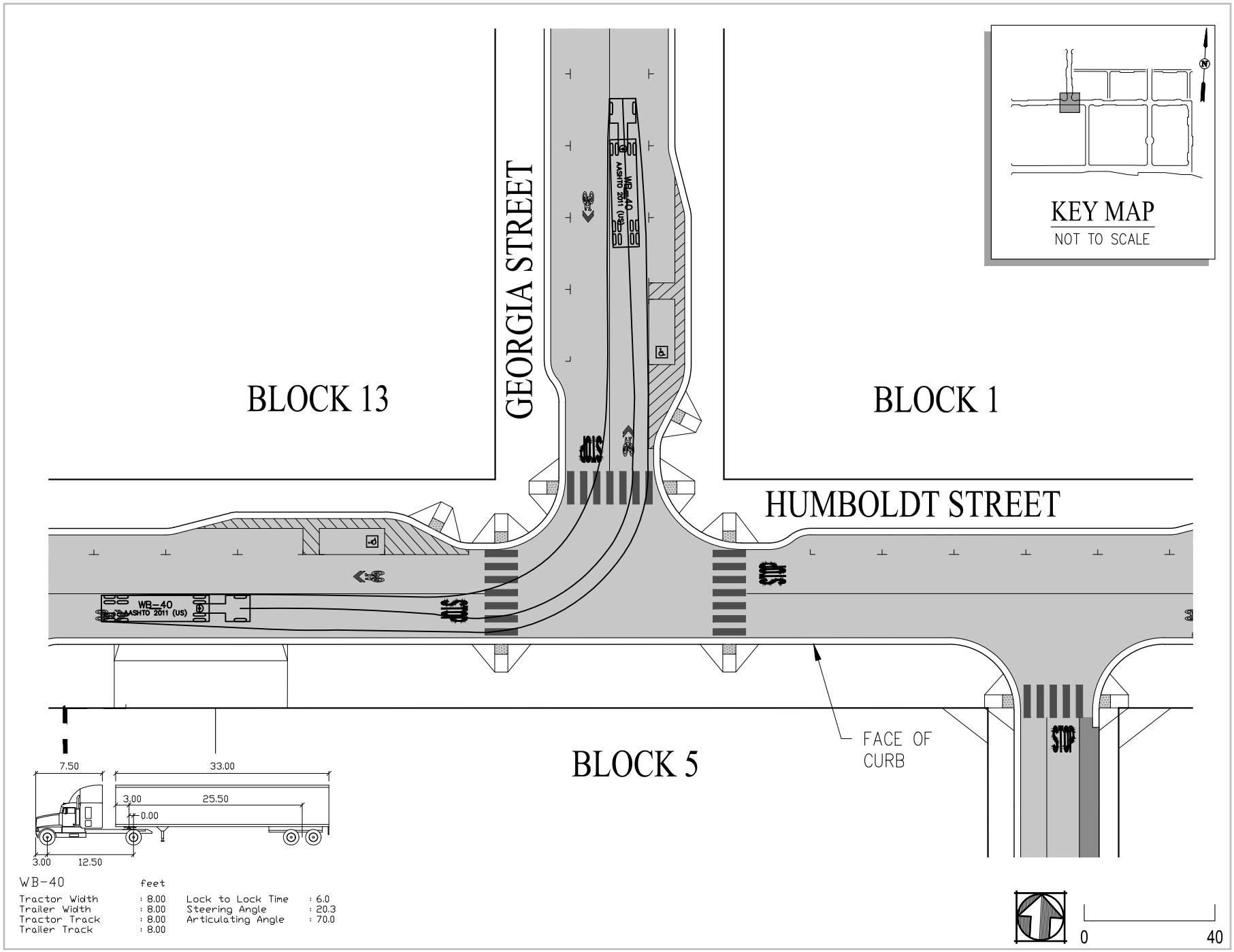
Appendix E Large Vehicle Movements – WB 40



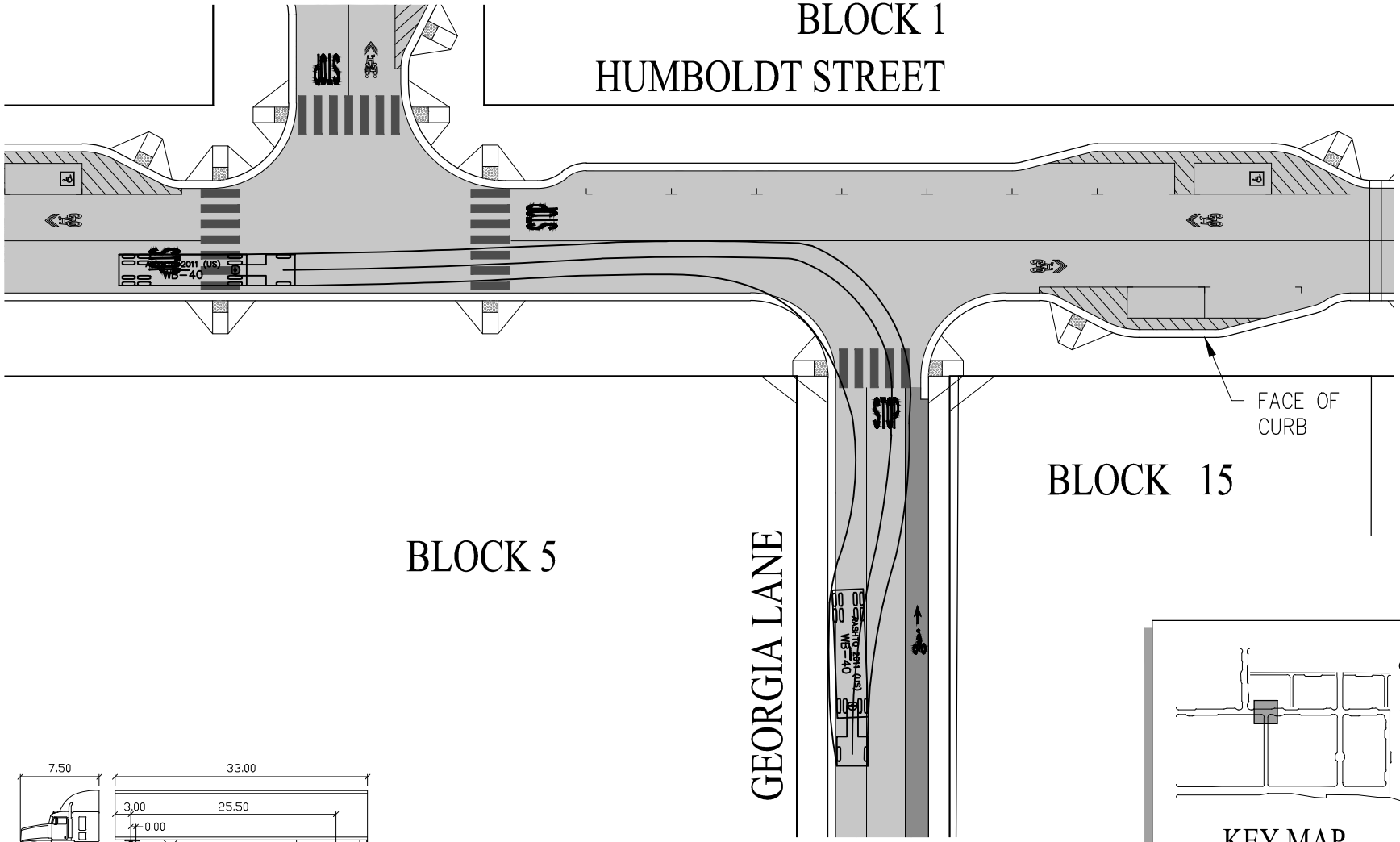
Appendix E Large Vehicle Movements – WB 40



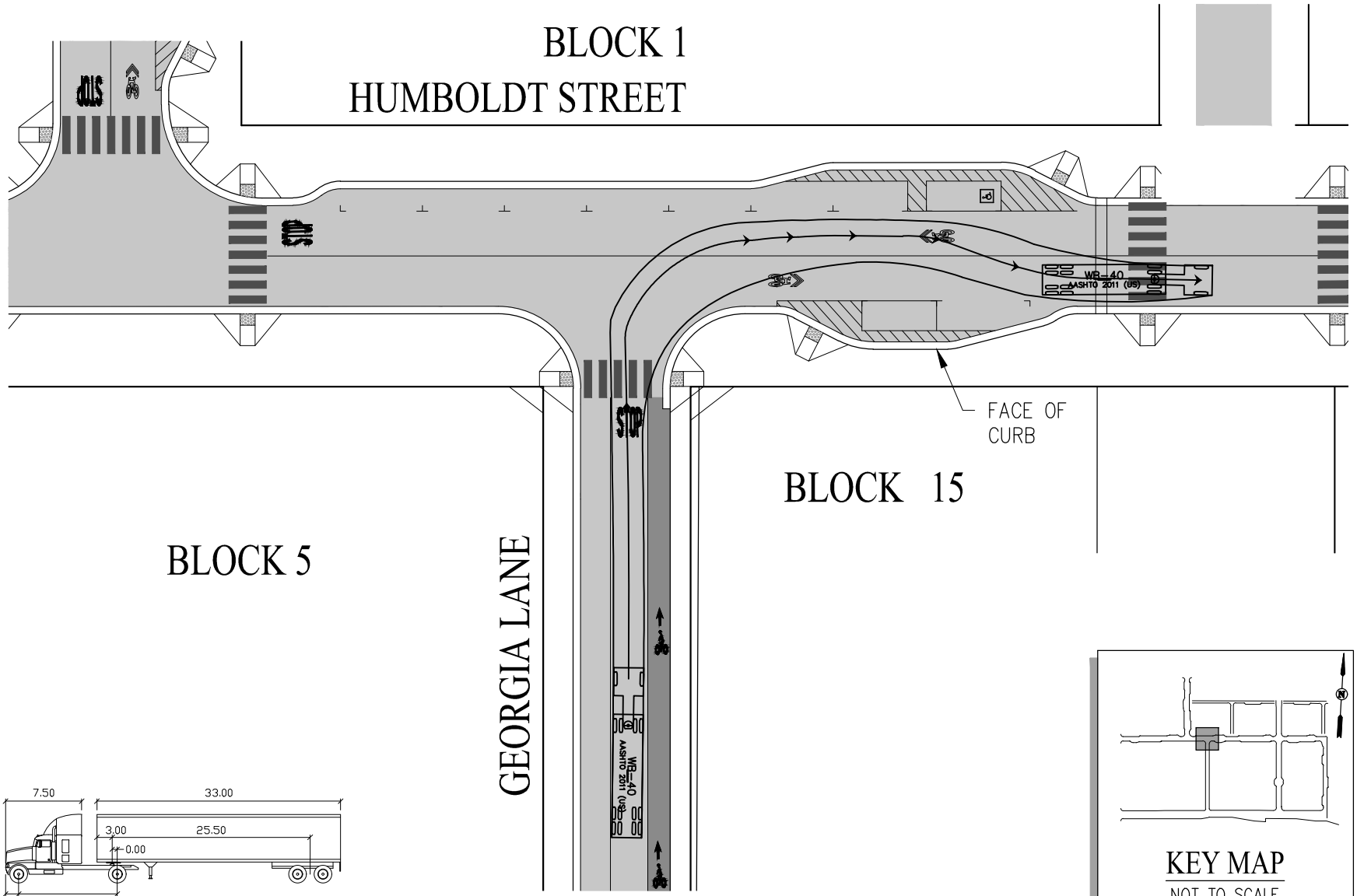
Appendix E Large Vehicle Movements – WB 40

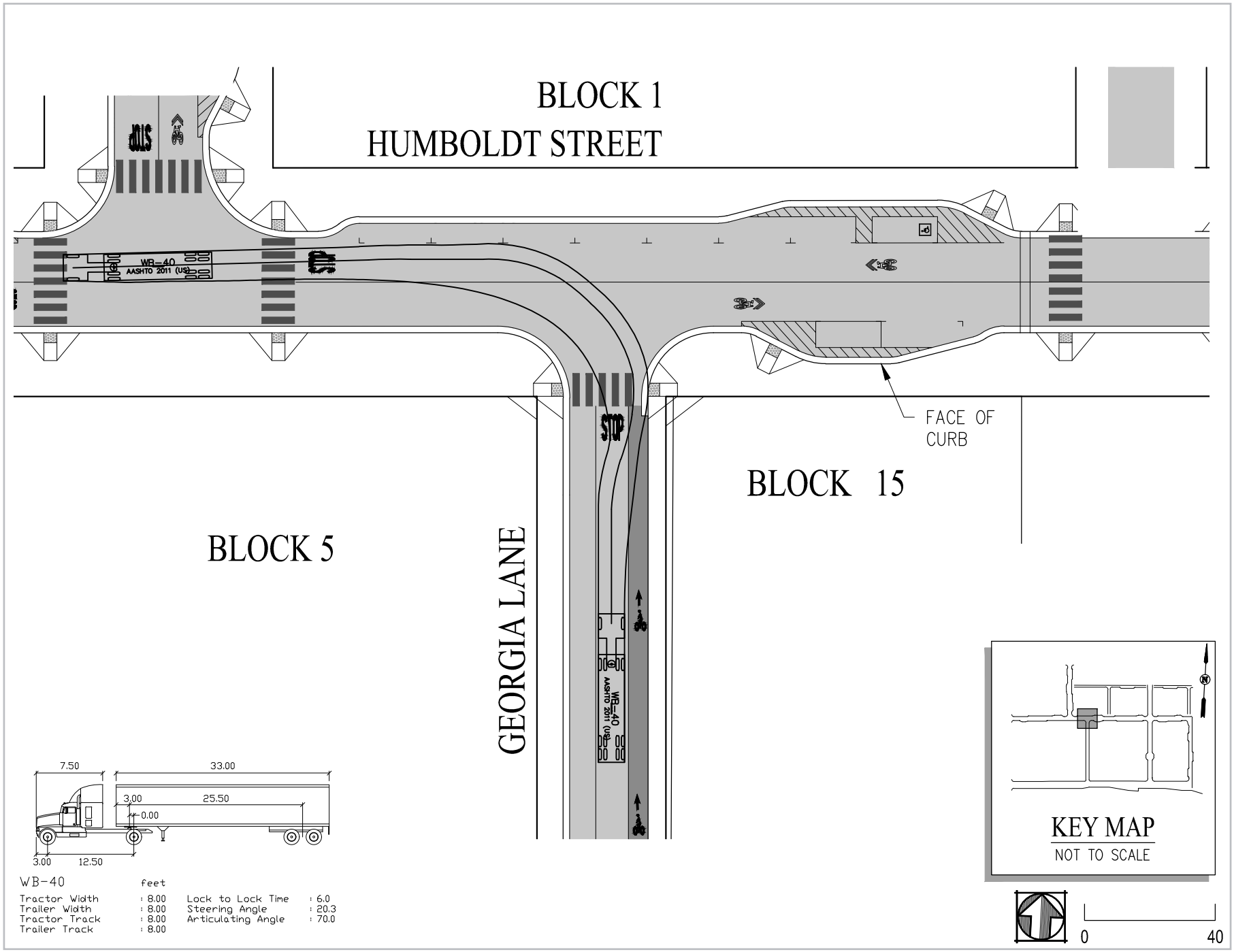


Appendix E Large Vehicle Movements – WB 40

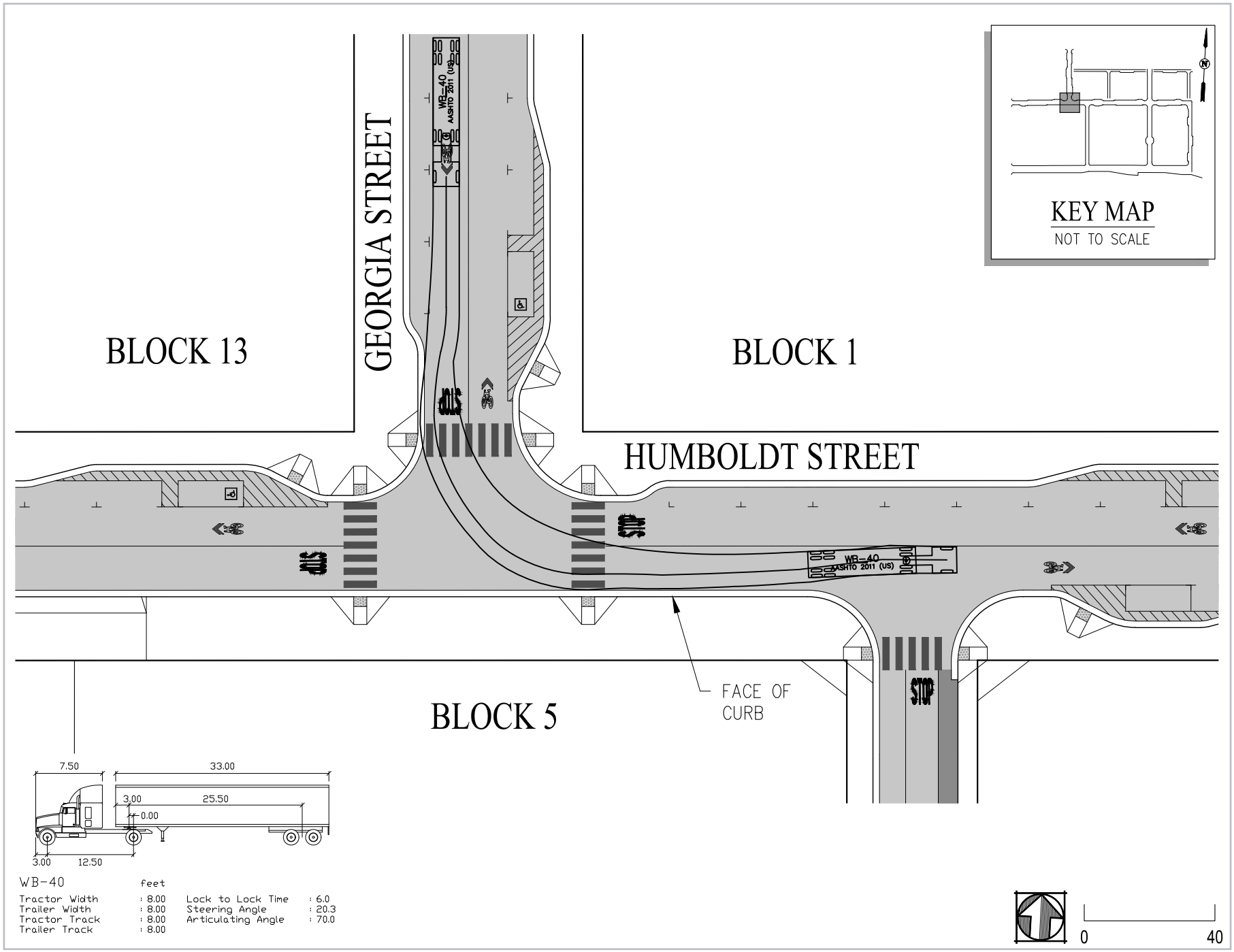


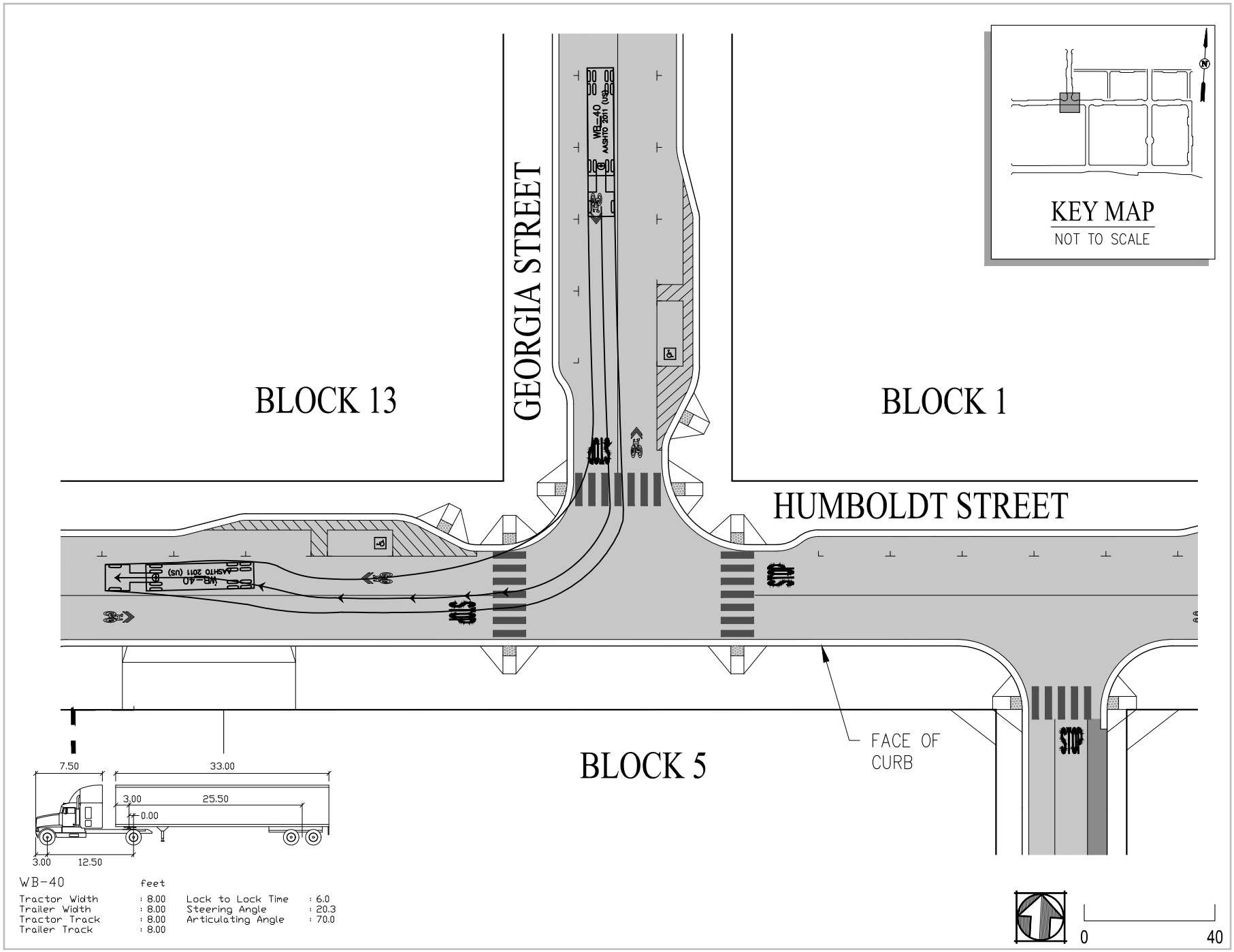
Appendix E Large Vehicle Movements – WB 40


BLOCK 1
HUMBOLDT STREET
STOP
STOP
WB-40
AASHTO 2011 (US)
FACE OF
CURB
BLOCK 15
BLOCK 5
GEORGIA LANE
STOP
WB-40
AASHTO 2011 (US)
7.50
33.00
3.00
25.50
0.00
3.00
12.50
WB-40
feet
Tractor Width : 8.00
Trailer Width : 8.00
Tractor Track : 8.00
Trailer Track : 8.00
Lock to Lock Time : 6.0
Steering Angle : 20.3
Articulating Angle : 70.0
KEY MAP
NOT TO SCALE
0
40

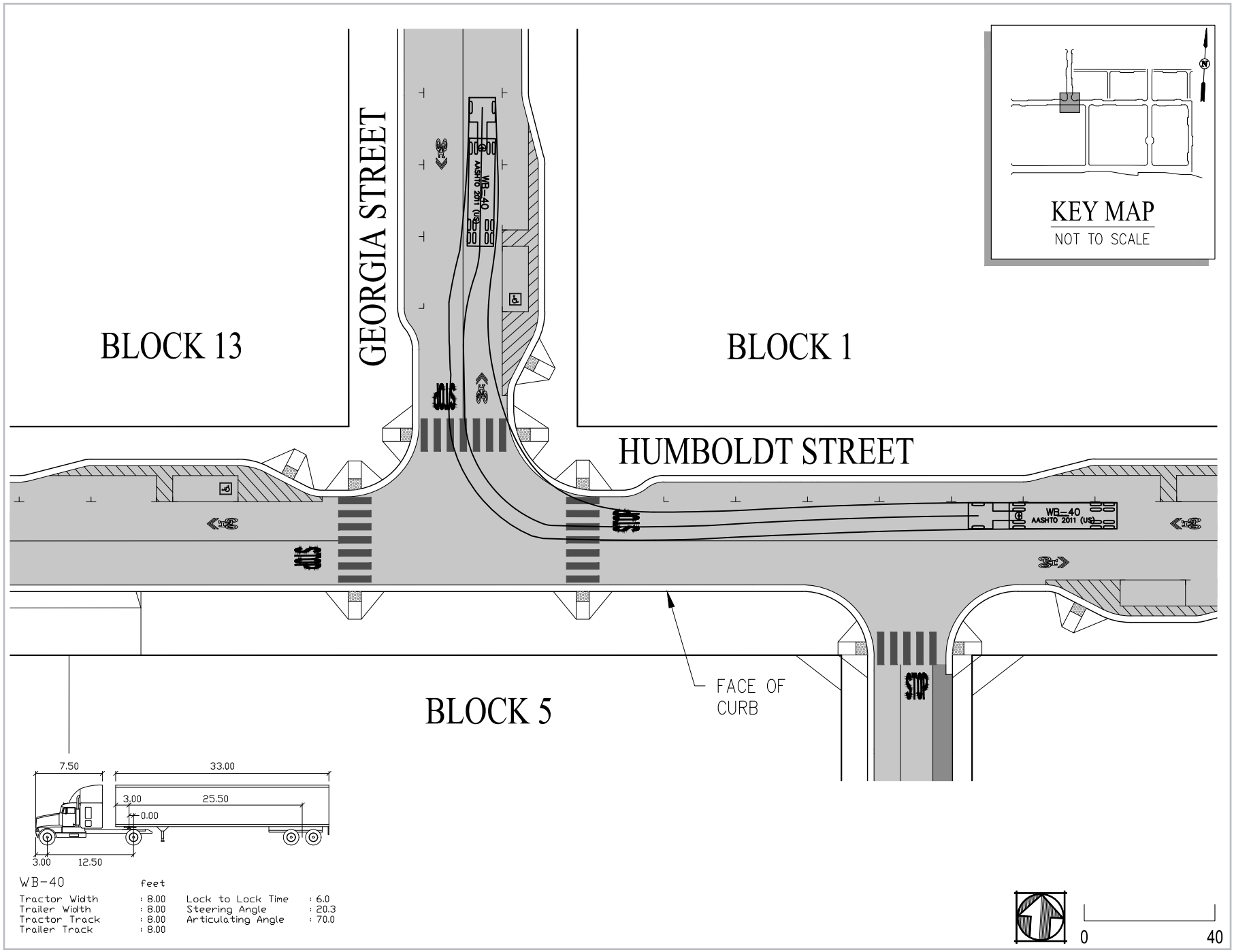


Appendix E Large Vehicle Movements – WB 40

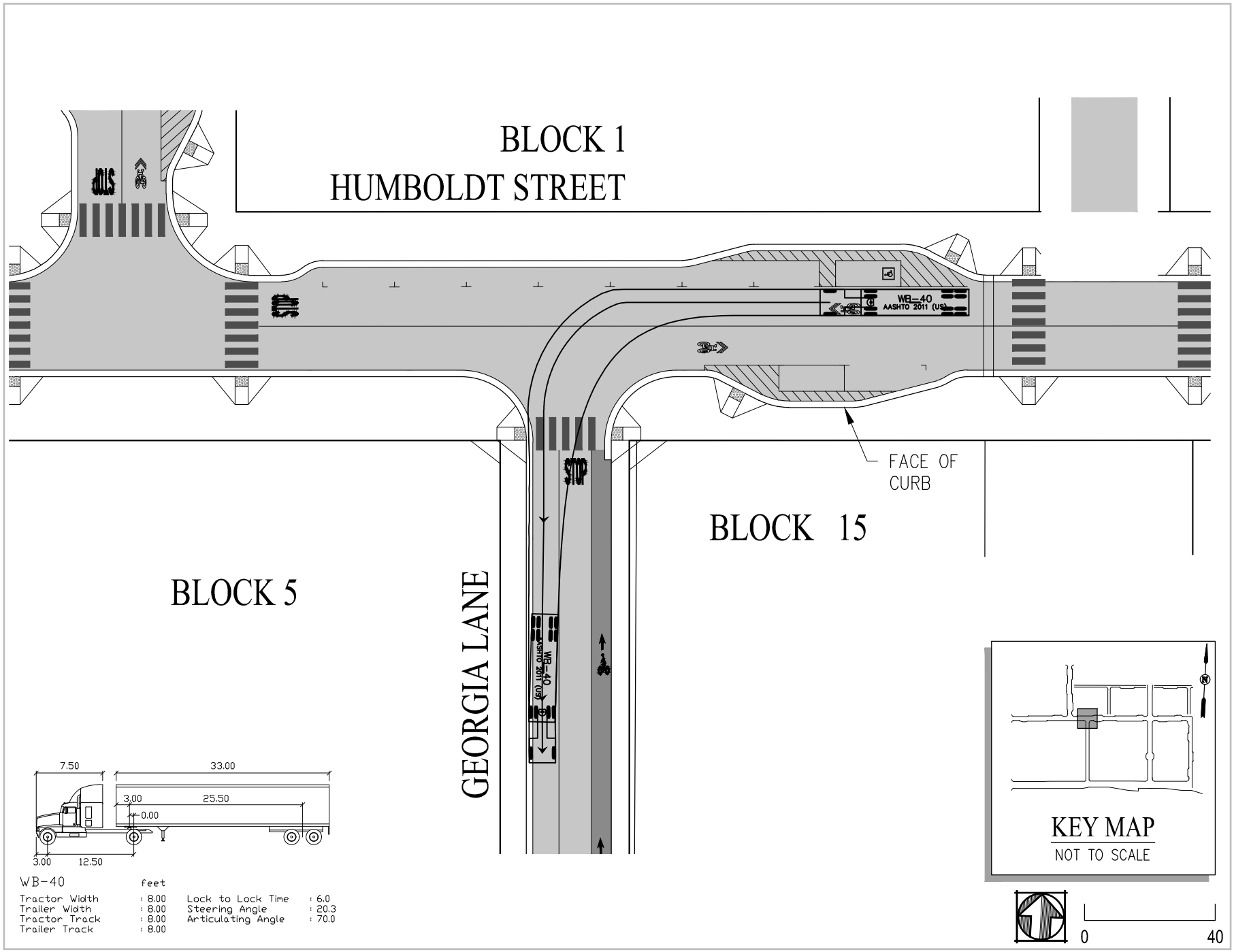

KEY MAP
NOT TO SCALE
BLOCK 13
GEORGIA STREET
BLOCK 1
HUMBOLDT STREET
BLOCK 5
FACE OF CURB
WB-40
AASHTO 2011 (US)
STOP
7.50
33.00
3.00
25.50
0.00
3.00
12.50
WB-40
feet
Tractor Width : 8.00
Trailer Width : 8.00
Tractor Track : 8.00
Trailer Track : 8.00
Lock to Lock Time : 6.0
Steering Angle : 20.3
Articulating Angle : 70.0
0
40



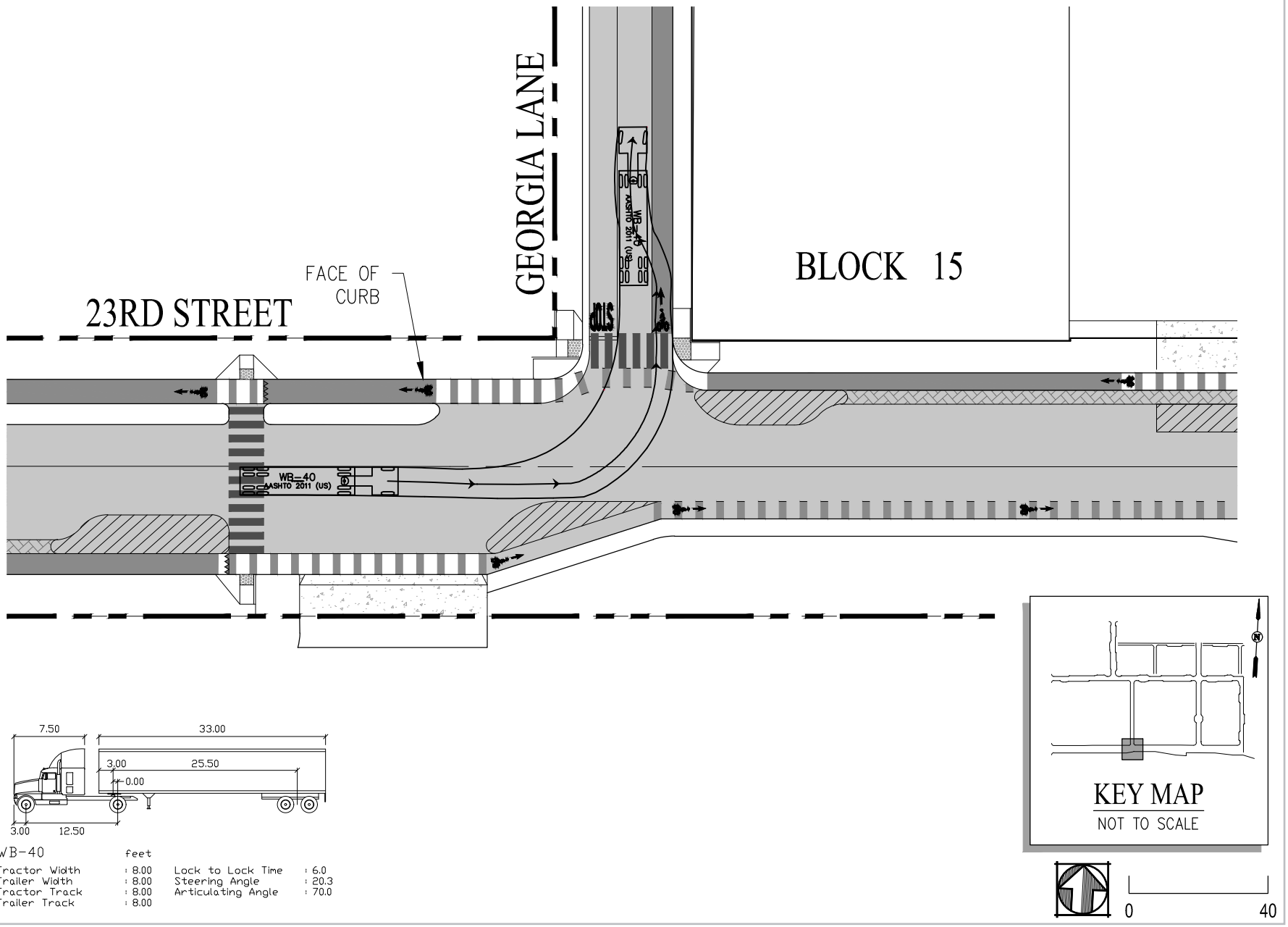
Appendix E Large Vehicle Movements – WB 40



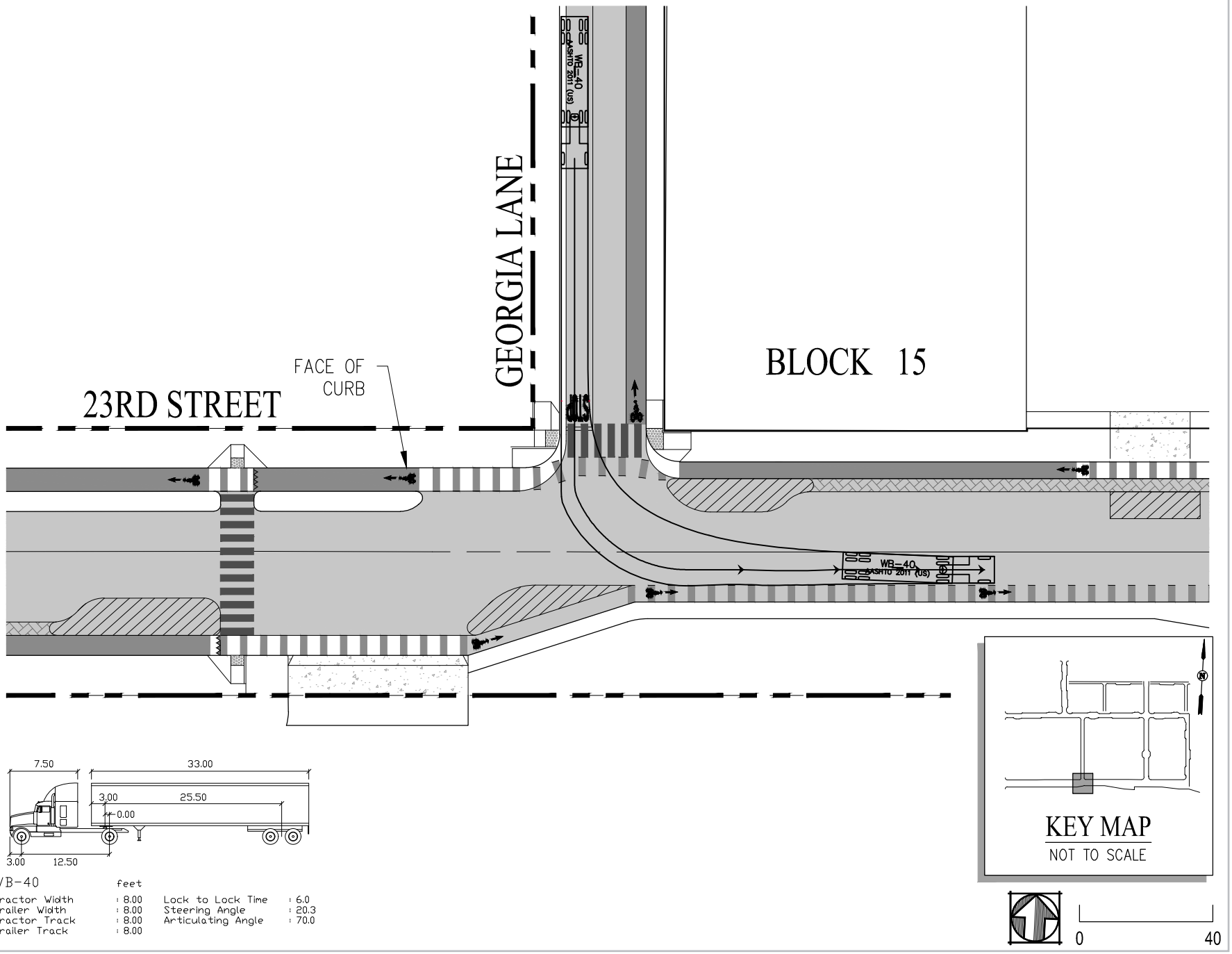
Appendix E Large Vehicle Movements – WB 40



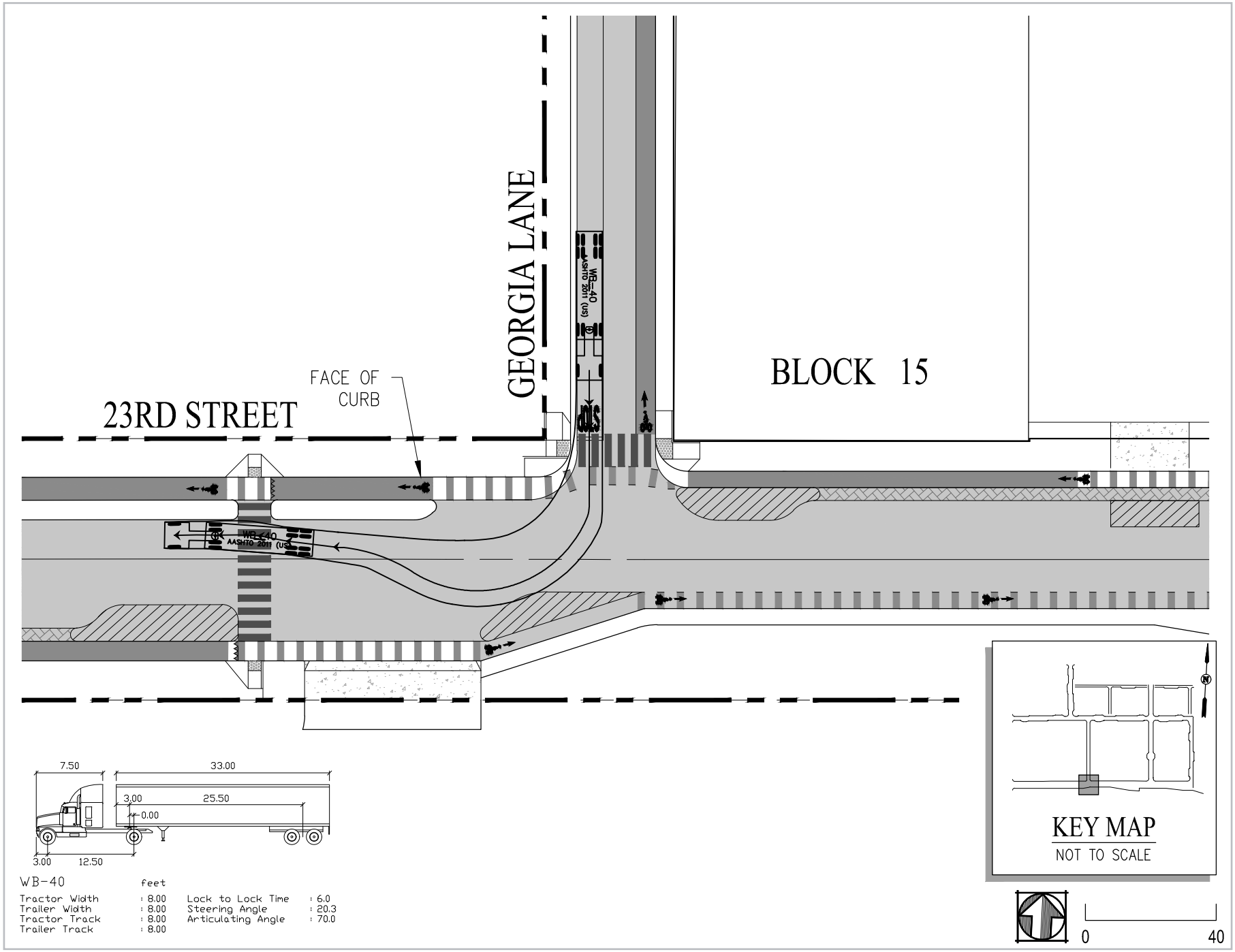
Appendix E Large Vehicle Movements – WB 40



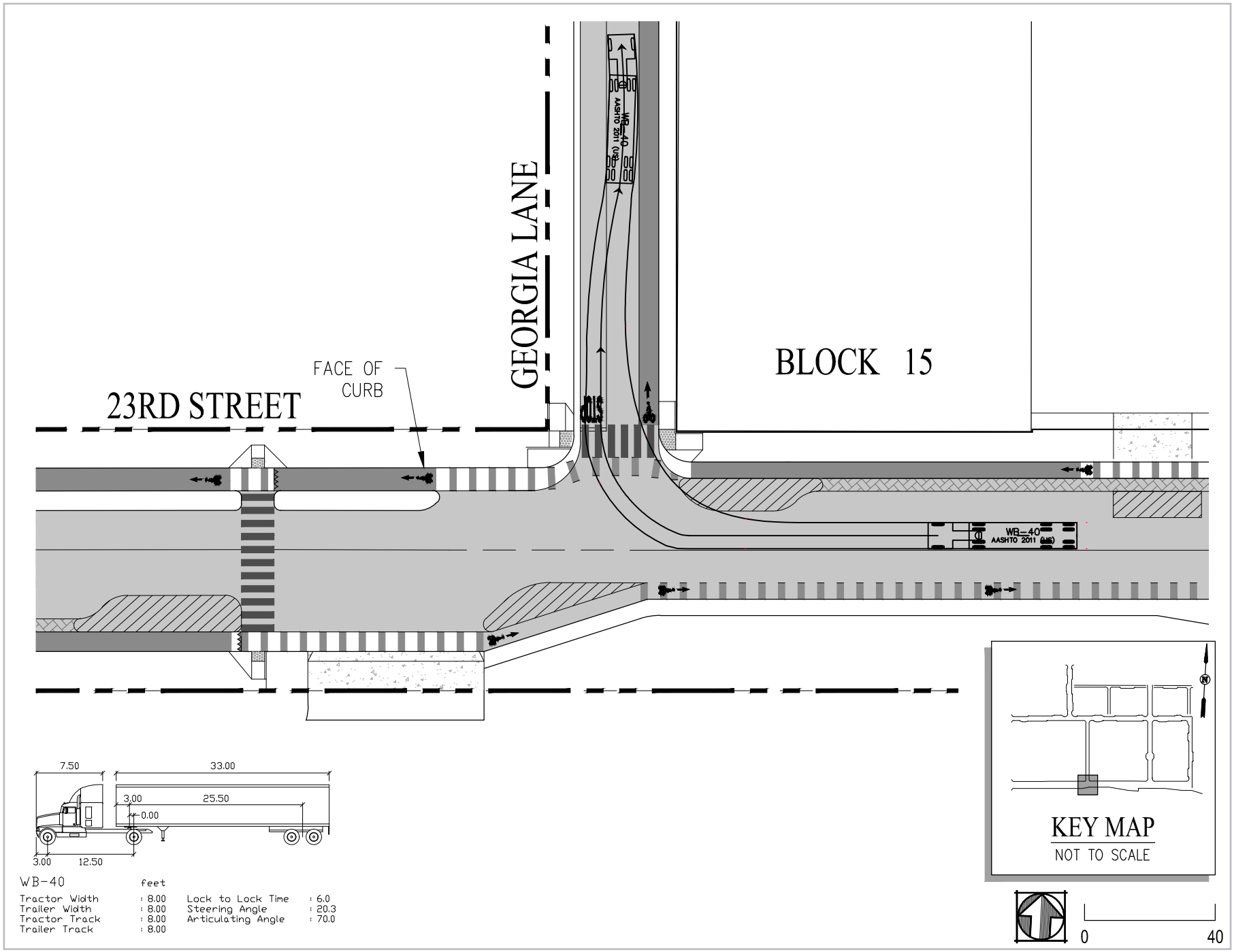
Appendix E Large Vehicle Movements – WB 40



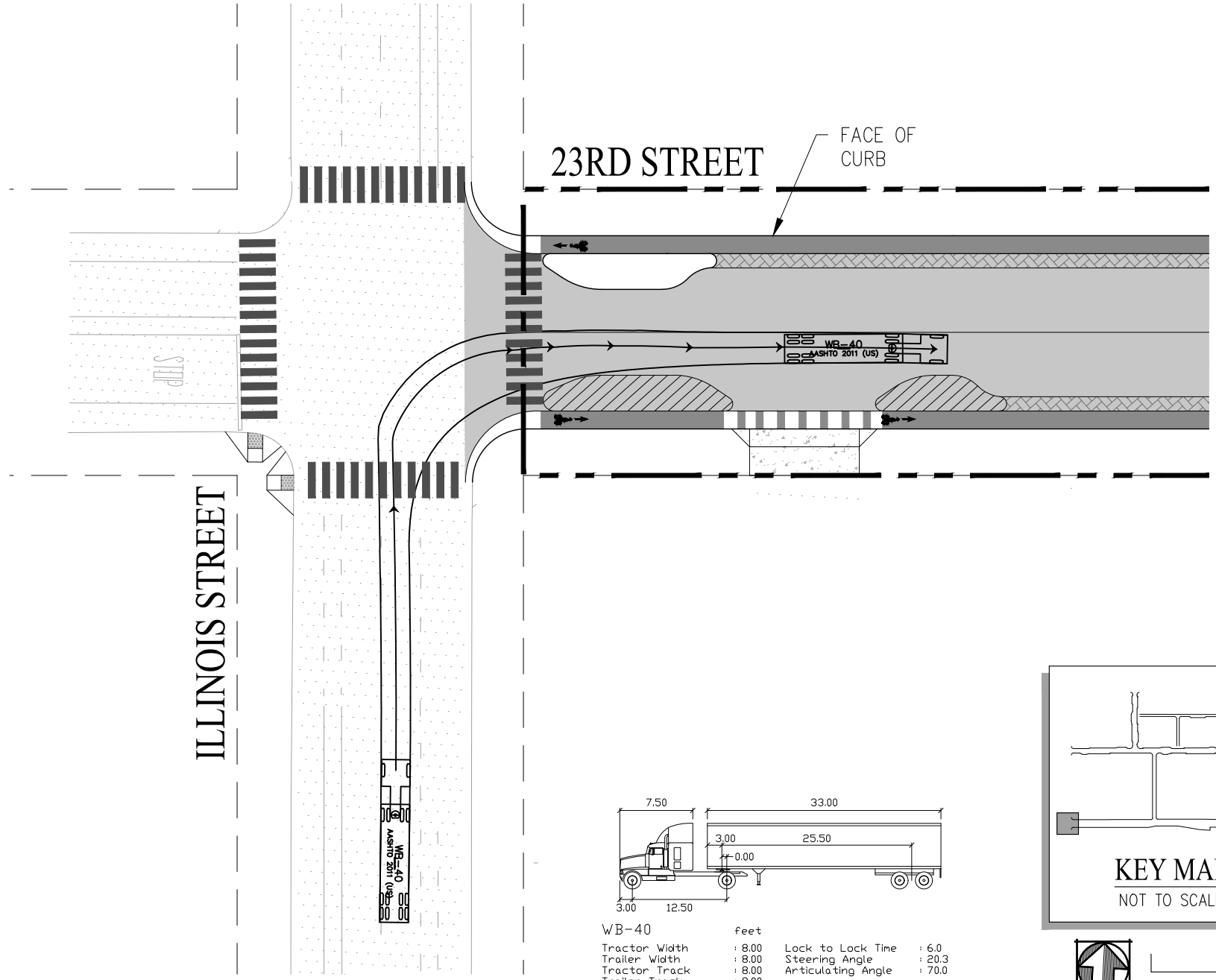
Appendix E Large Vehicle Movements – WB 40



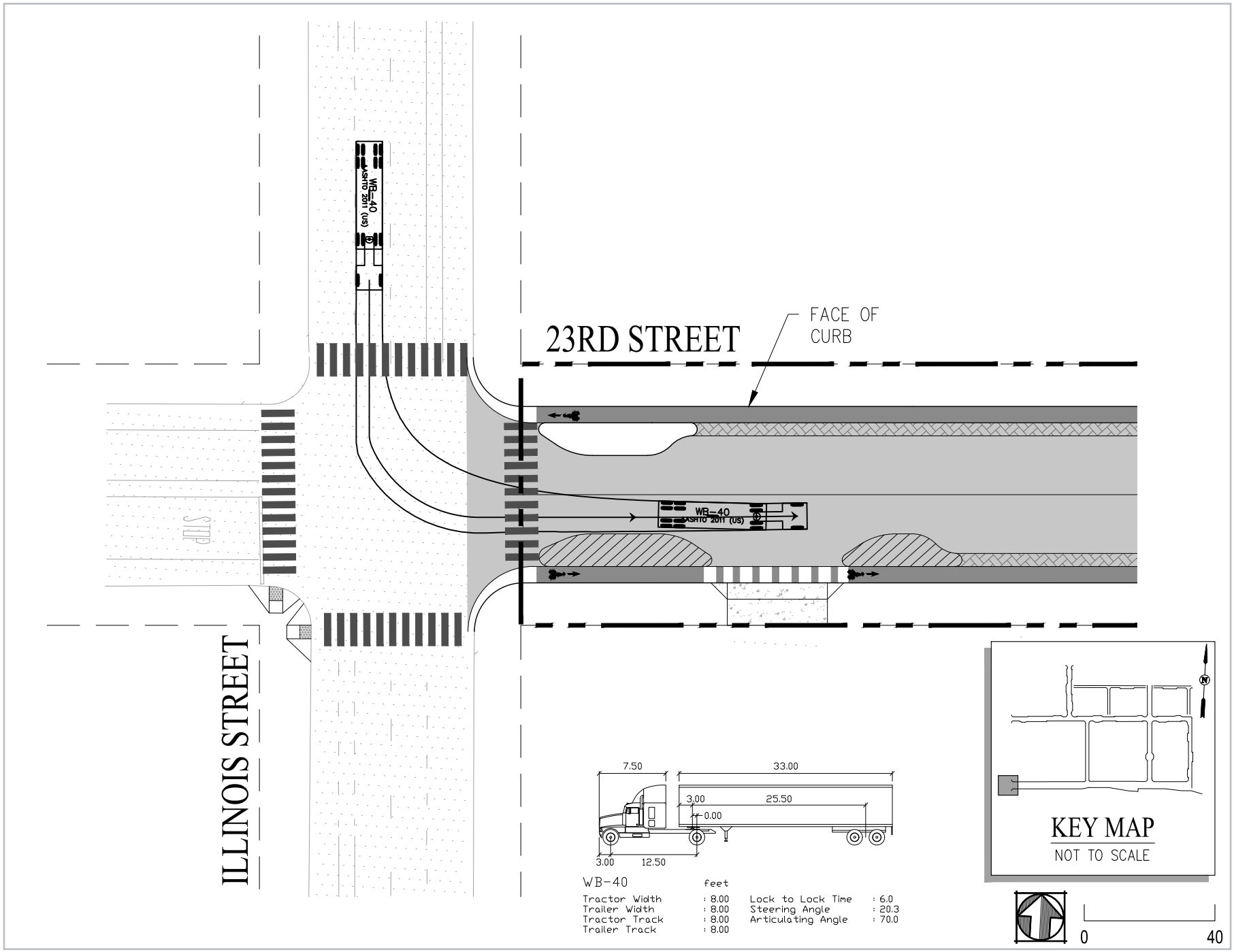
Appendix E Large Vehicle Movements – WB 40



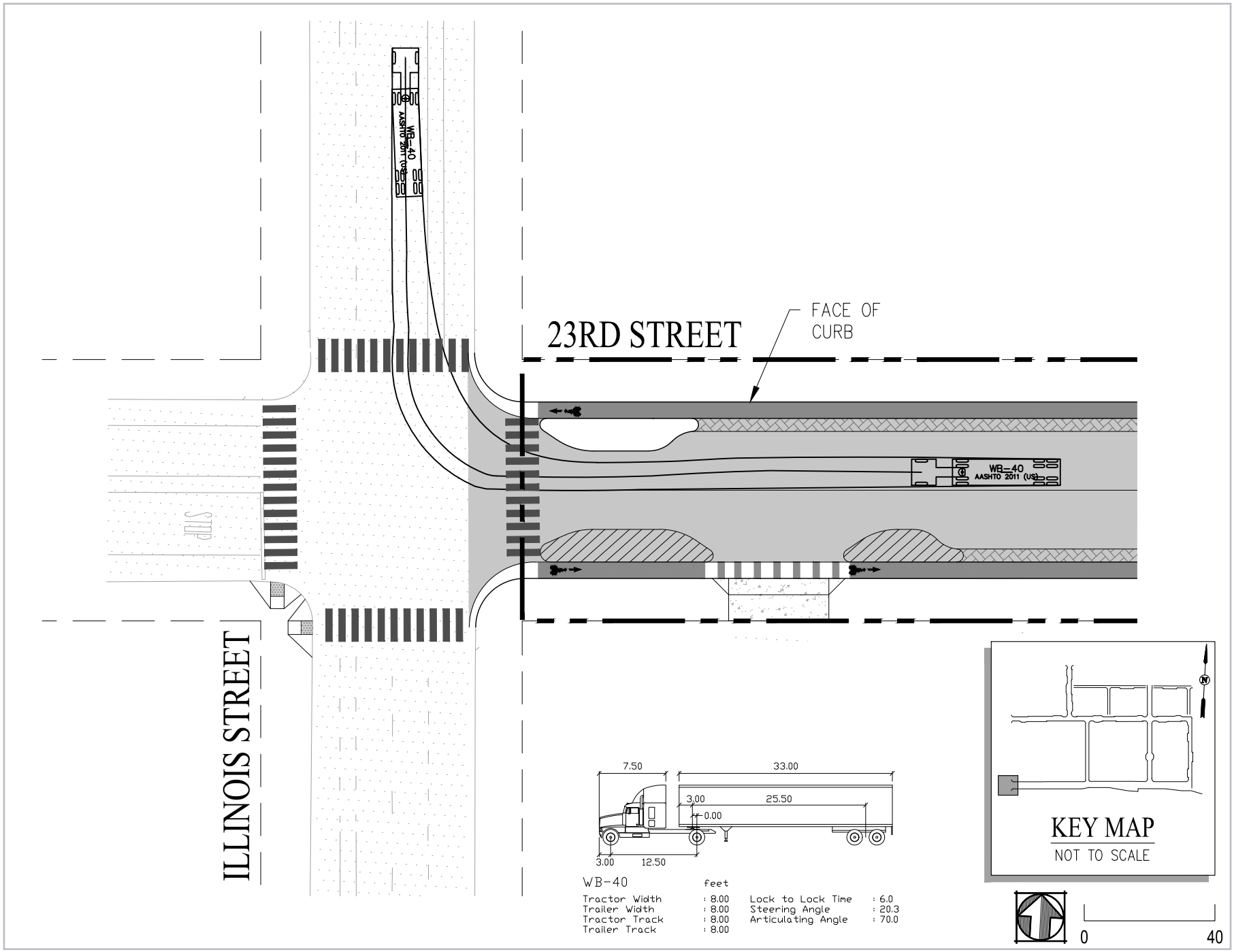
Appendix E Large Vehicle Movements – WB 40



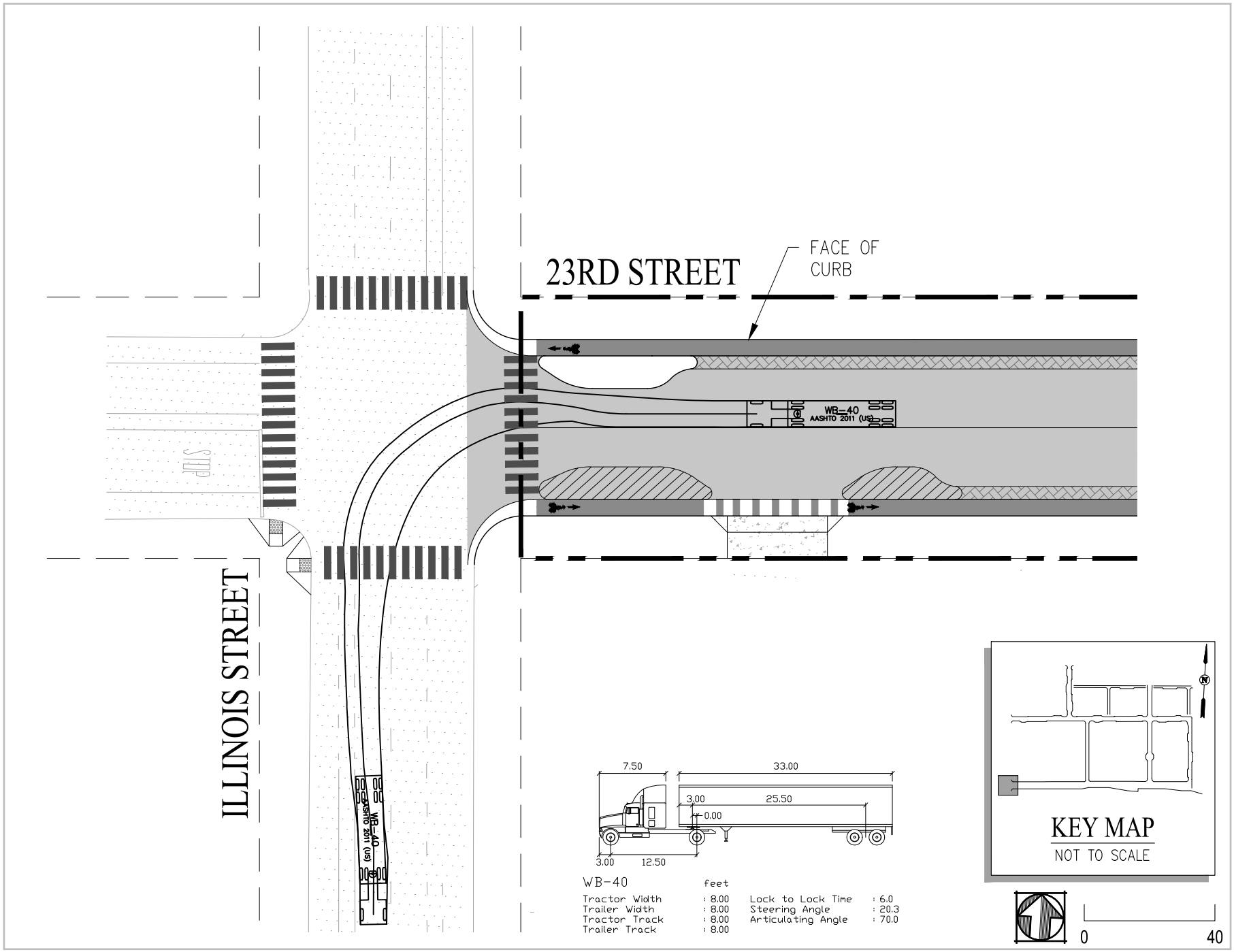
Appendix E Large Vehicle Movements – WB 40



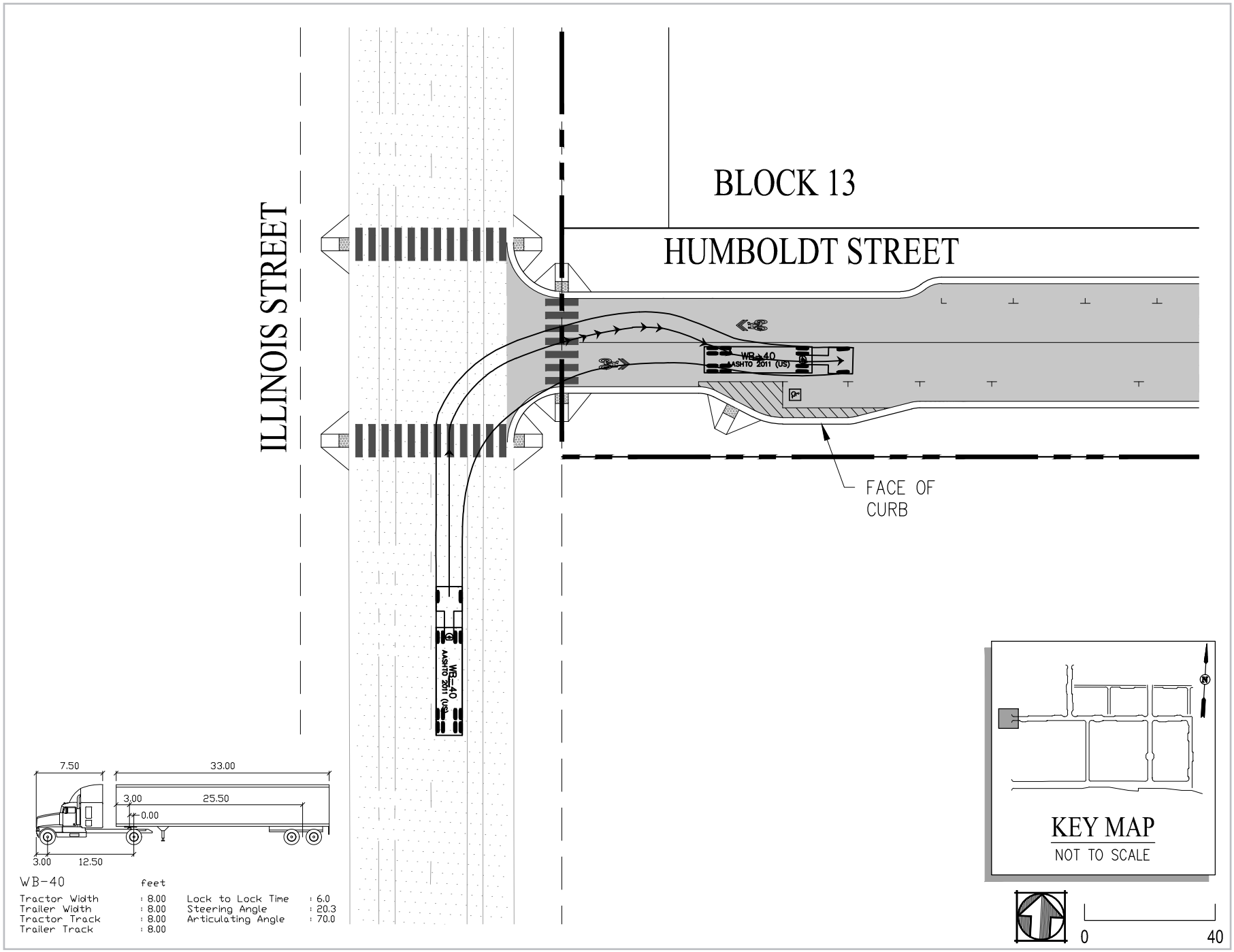
Appendix E Large Vehicle Movements – WB 40



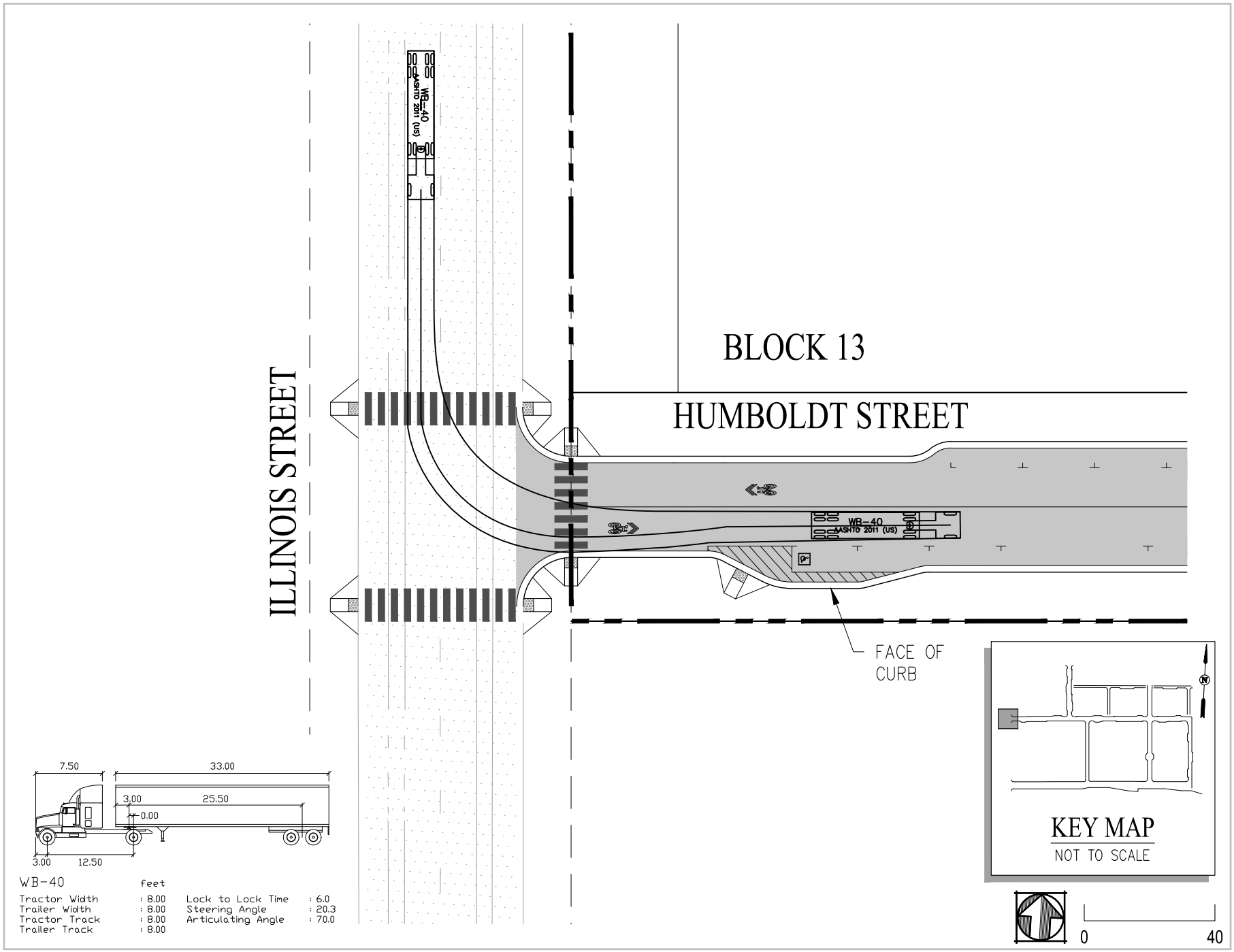
Appendix E Large Vehicle Movements – WB 40



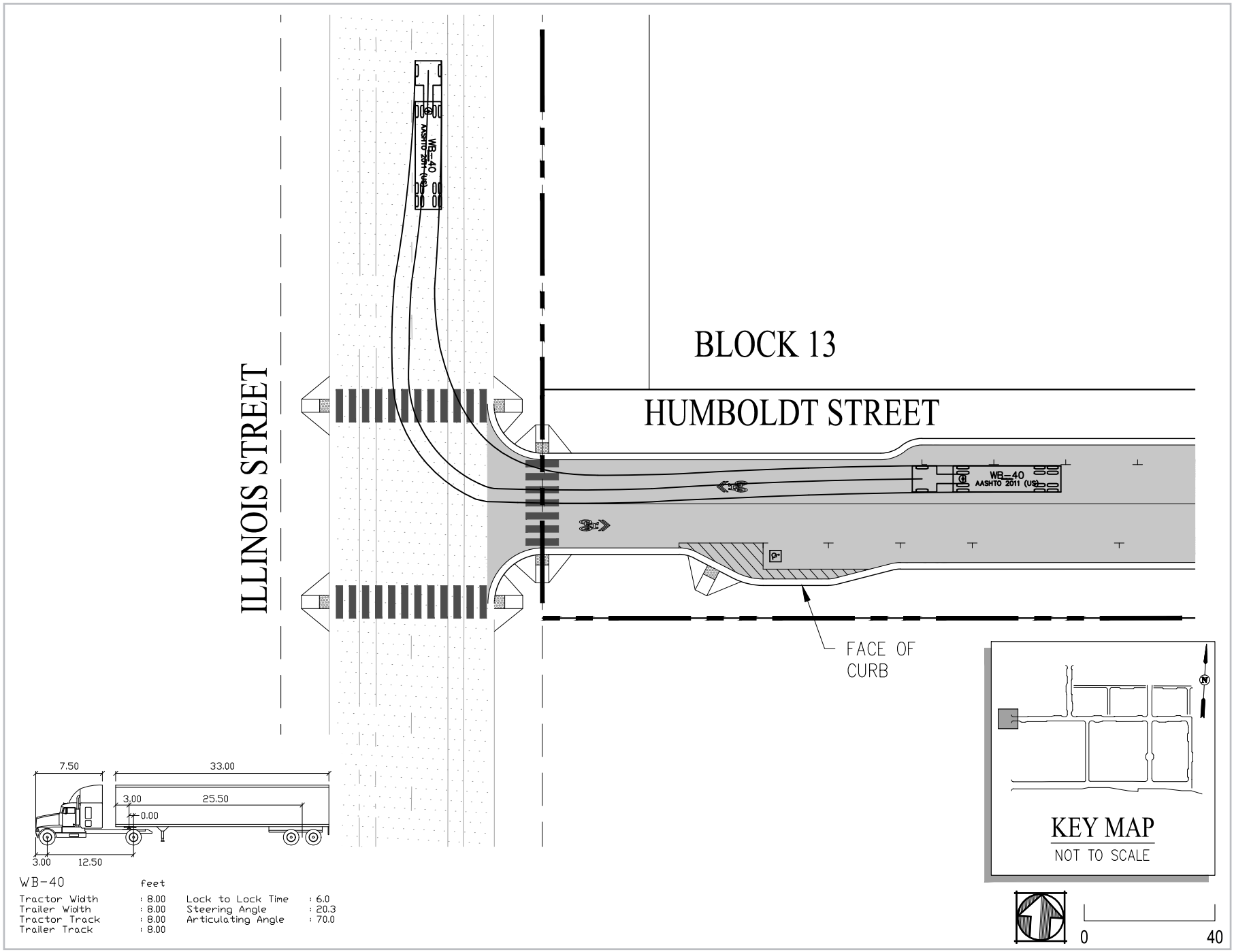
Appendix E Large Vehicle Movements – WB 40



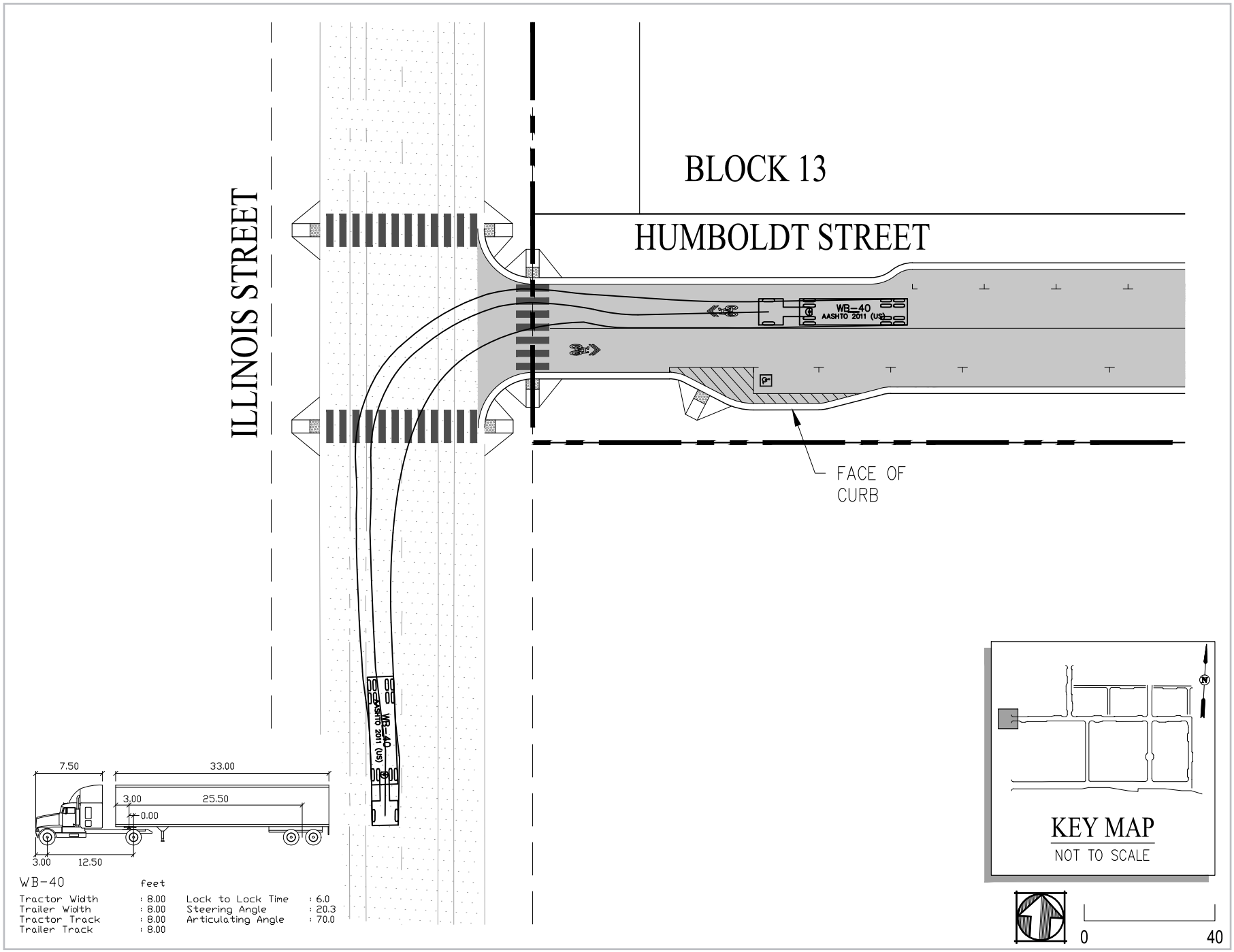
Appendix E Large Vehicle Movements – WB 40



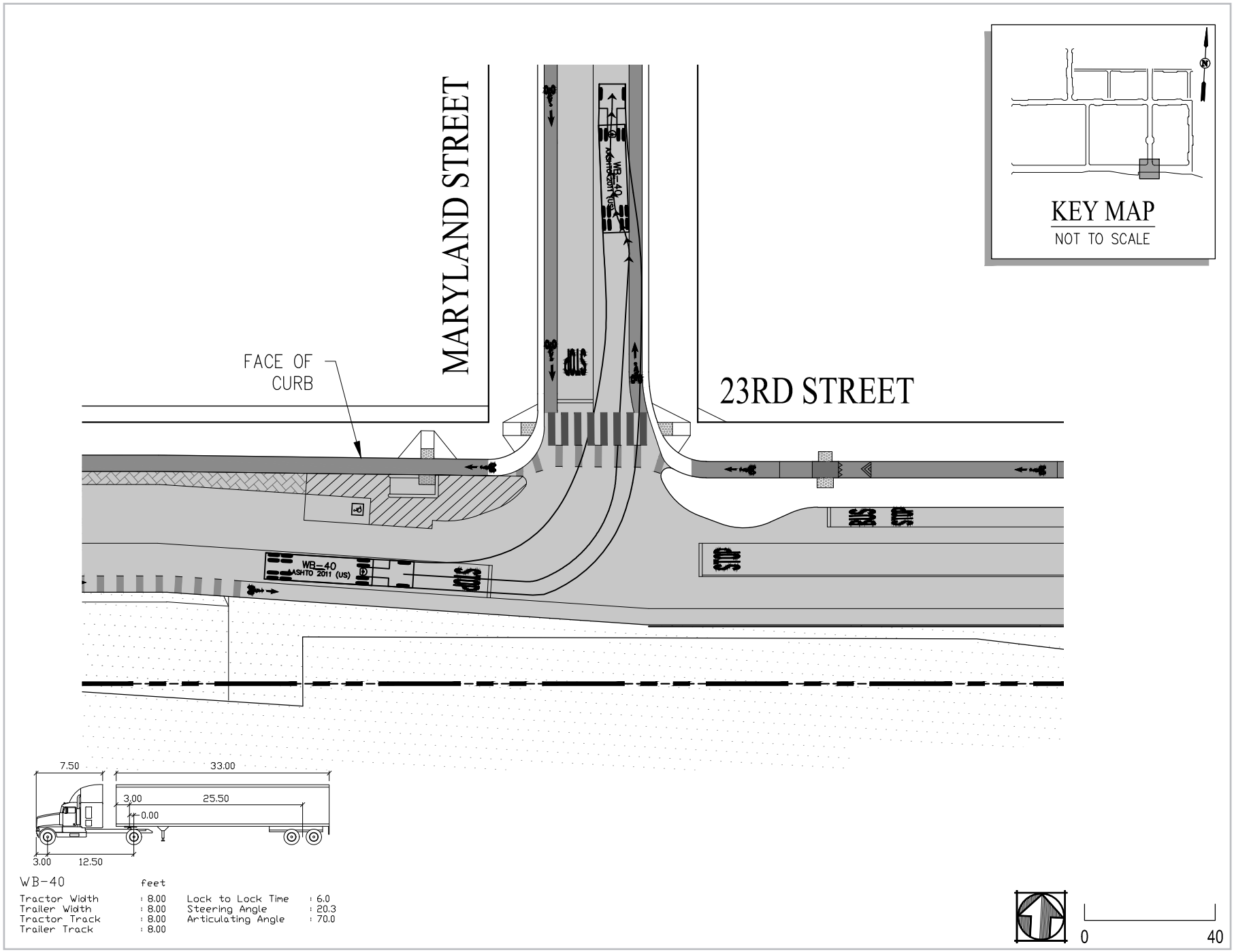
Appendix E Large Vehicle Movements – WB 40



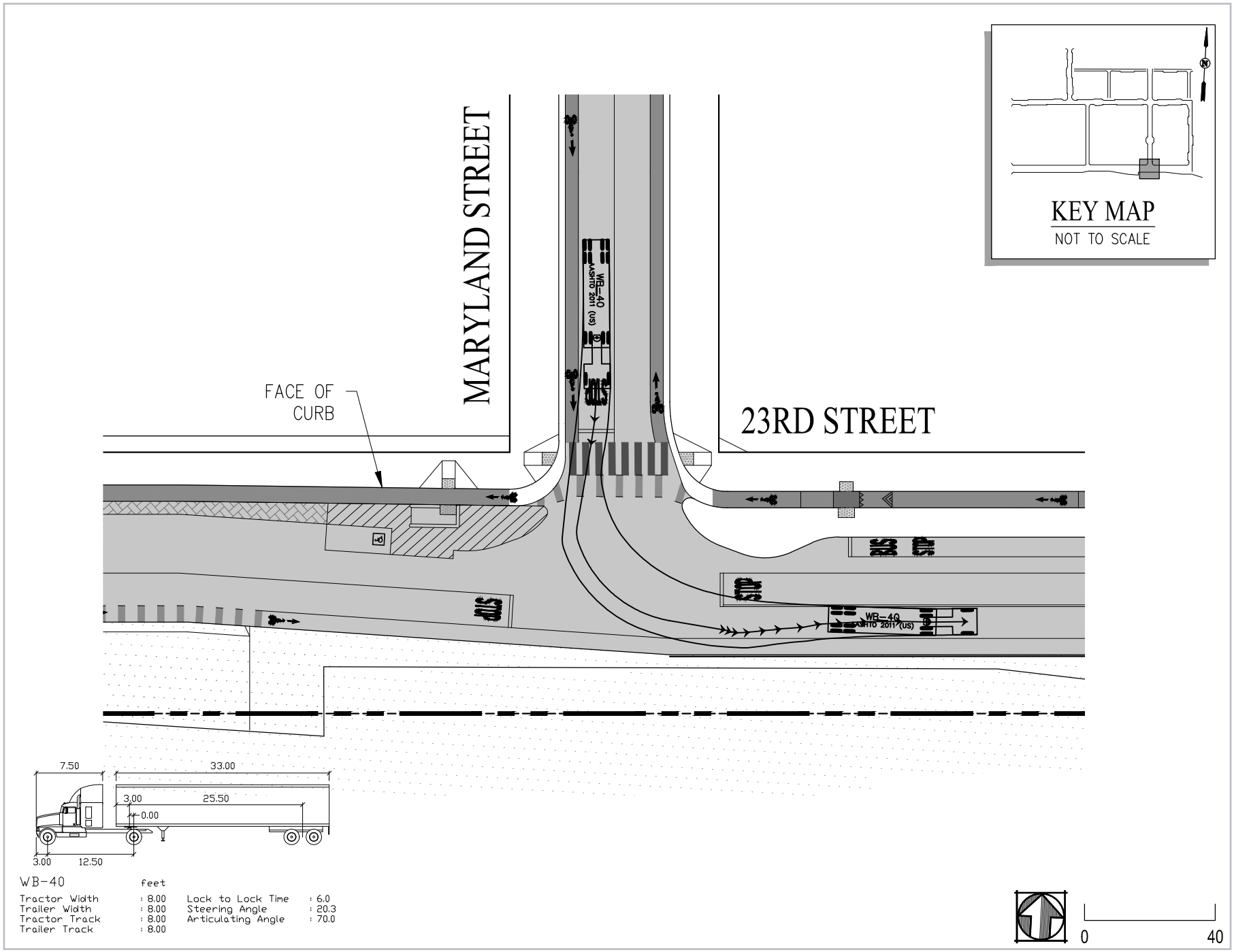
Appendix E Large Vehicle Movements – WB 40

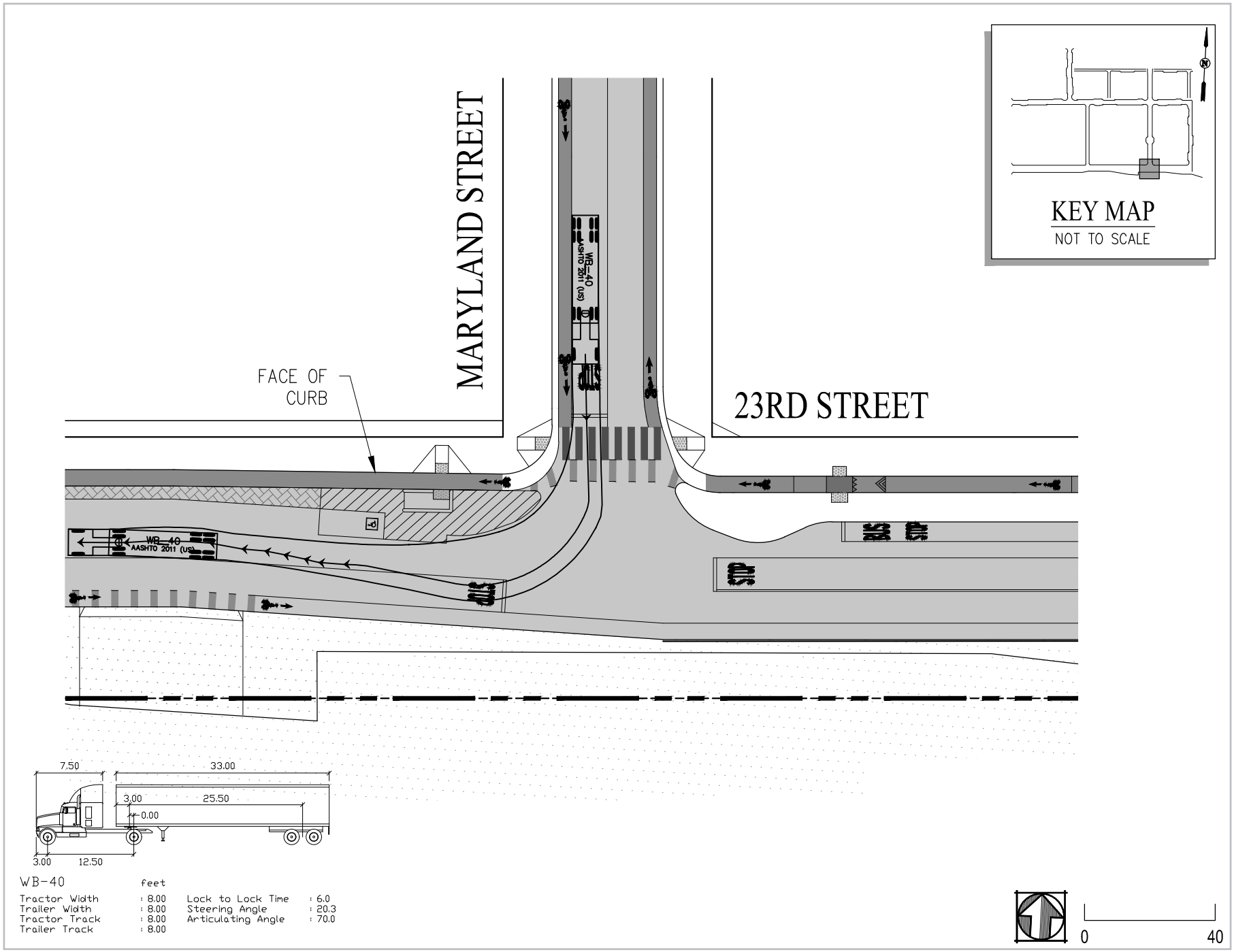


Appendix E Large Vehicle Movements – WB 40

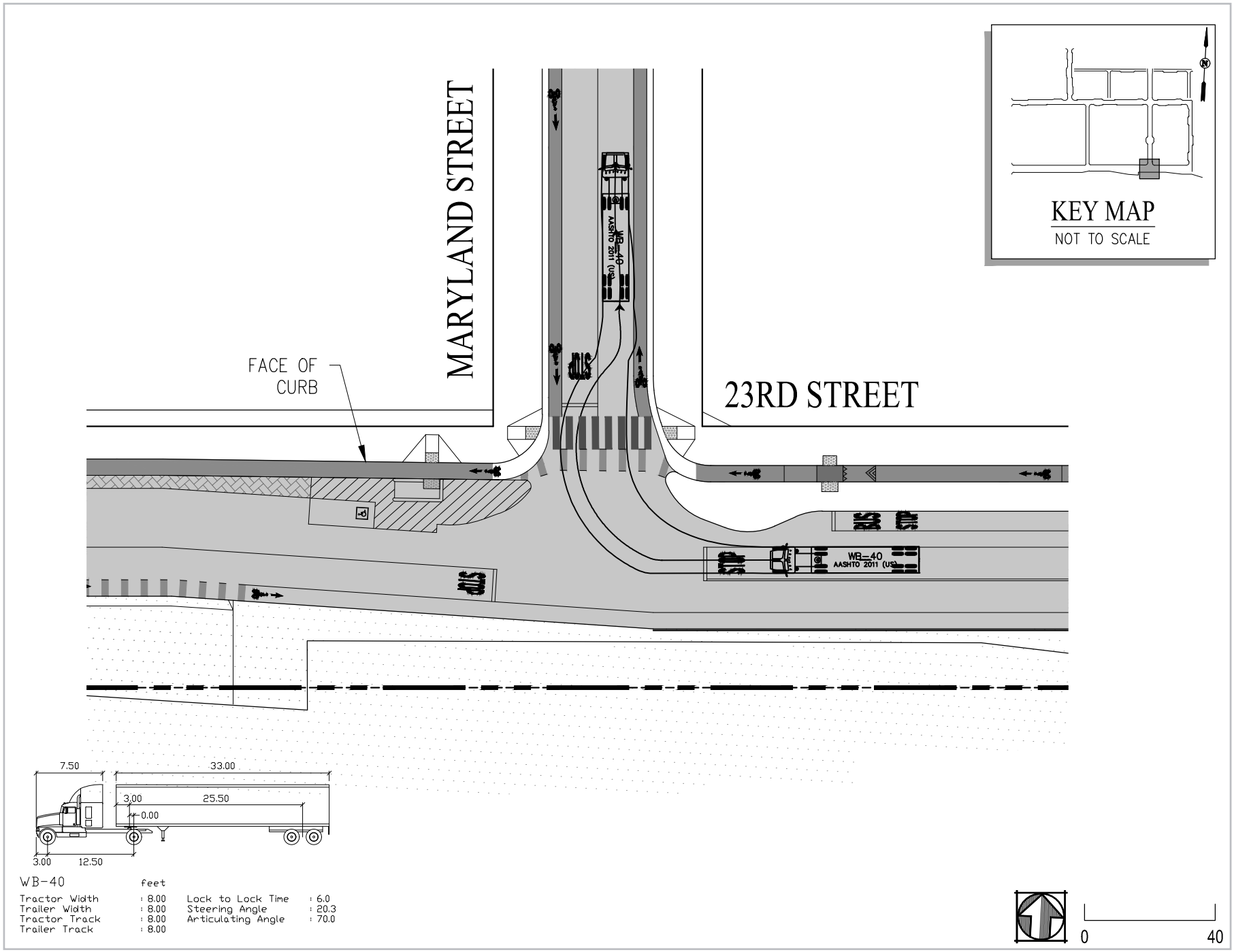


Appendix E Large Vehicle Movements – WB 40

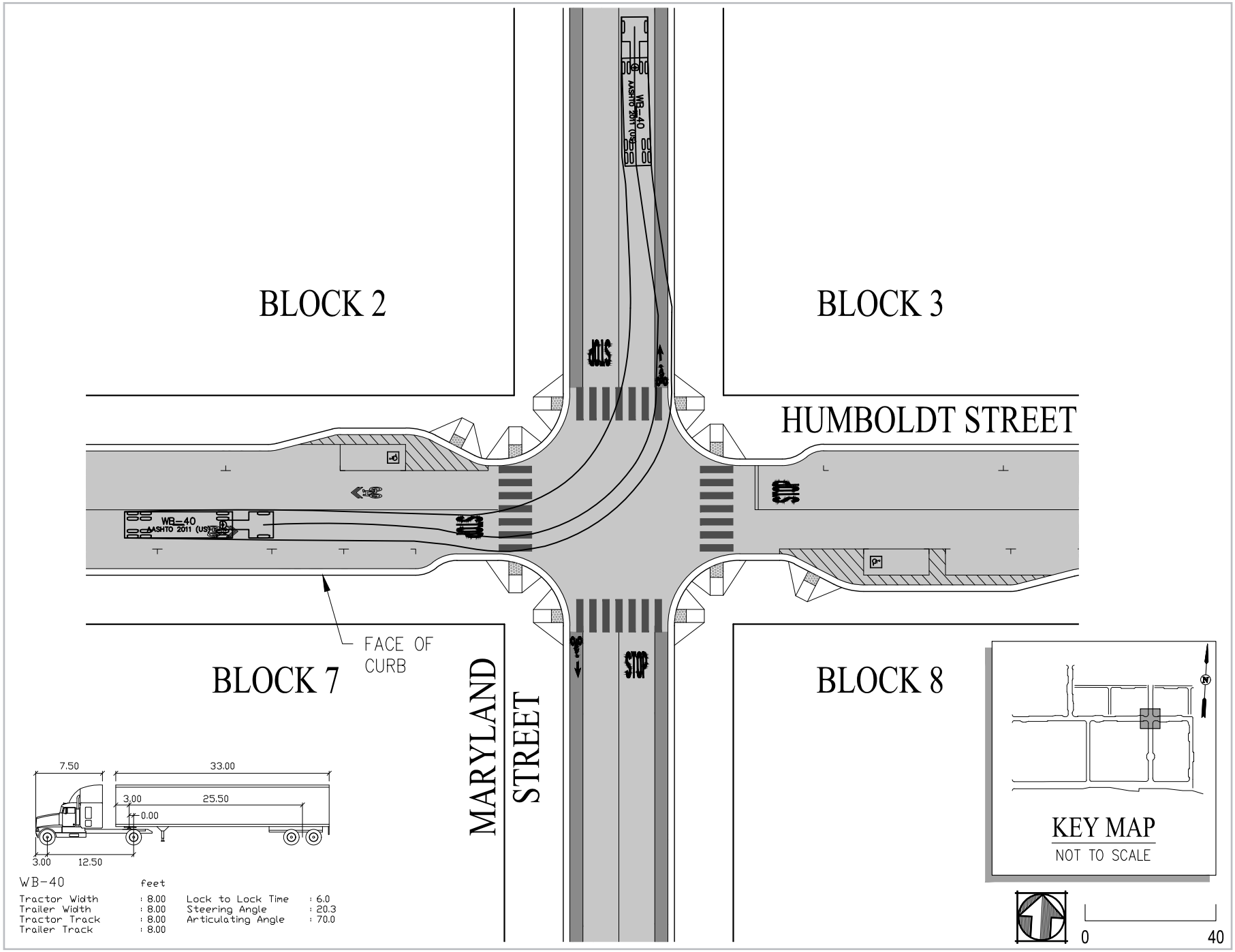

MARYLAND STREET
23RD STREET
FACE OF CURB
WB-40 AASHTO 2011 (US)
KEY MAP
NOT TO SCALE
7.50
33.00
3.00
25.50
0.00
3.00
12.50
WB-40
feet
Tractor Width : 8.00
Trailer Width : 8.00
Tractor Track : 8.00
Trailer Track : 8.00
Lock to Lock Time : 6.0
Steering Angle : 20.3
Articulating Angle : 70.0
0
40



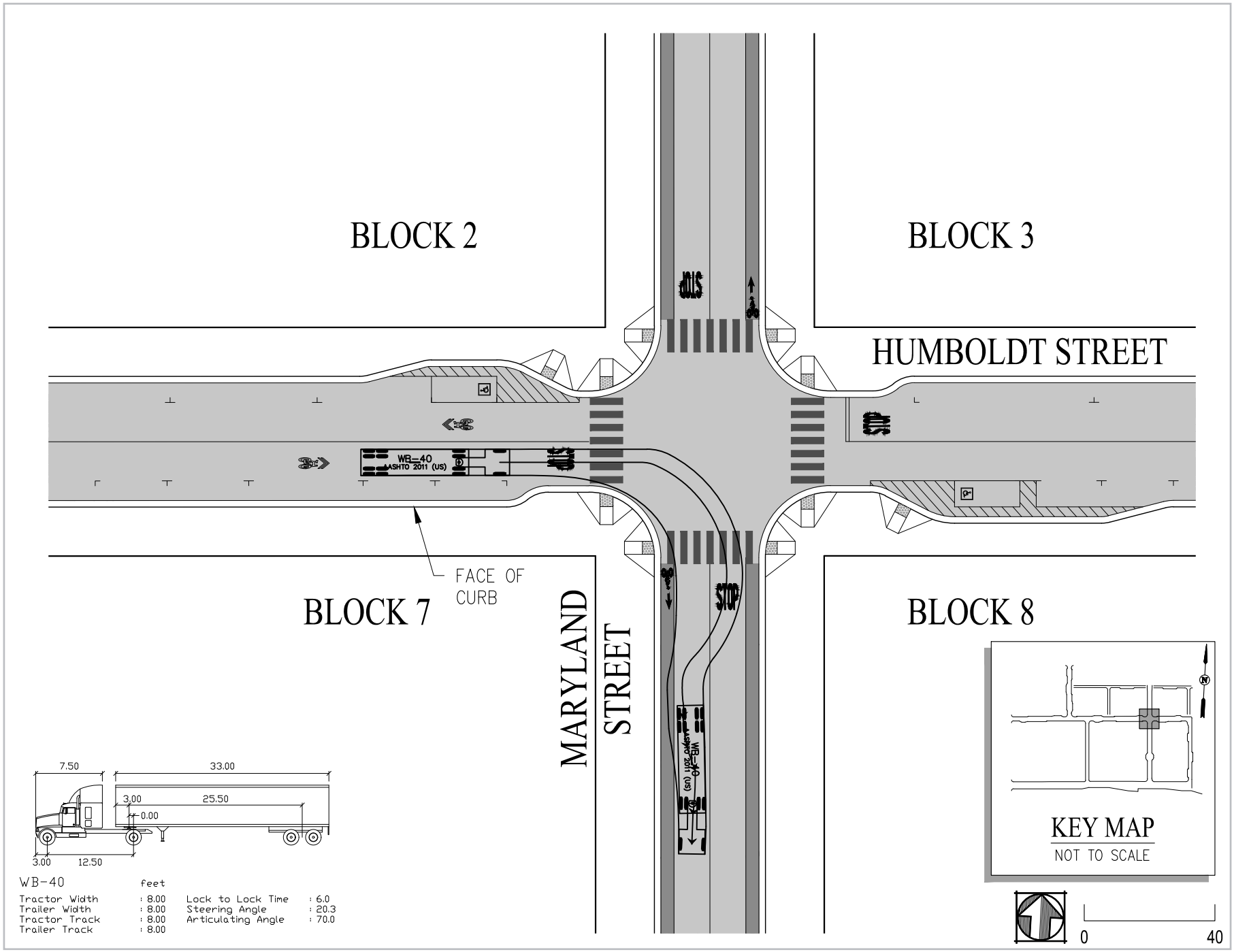
Appendix E Large Vehicle Movements – WB 40



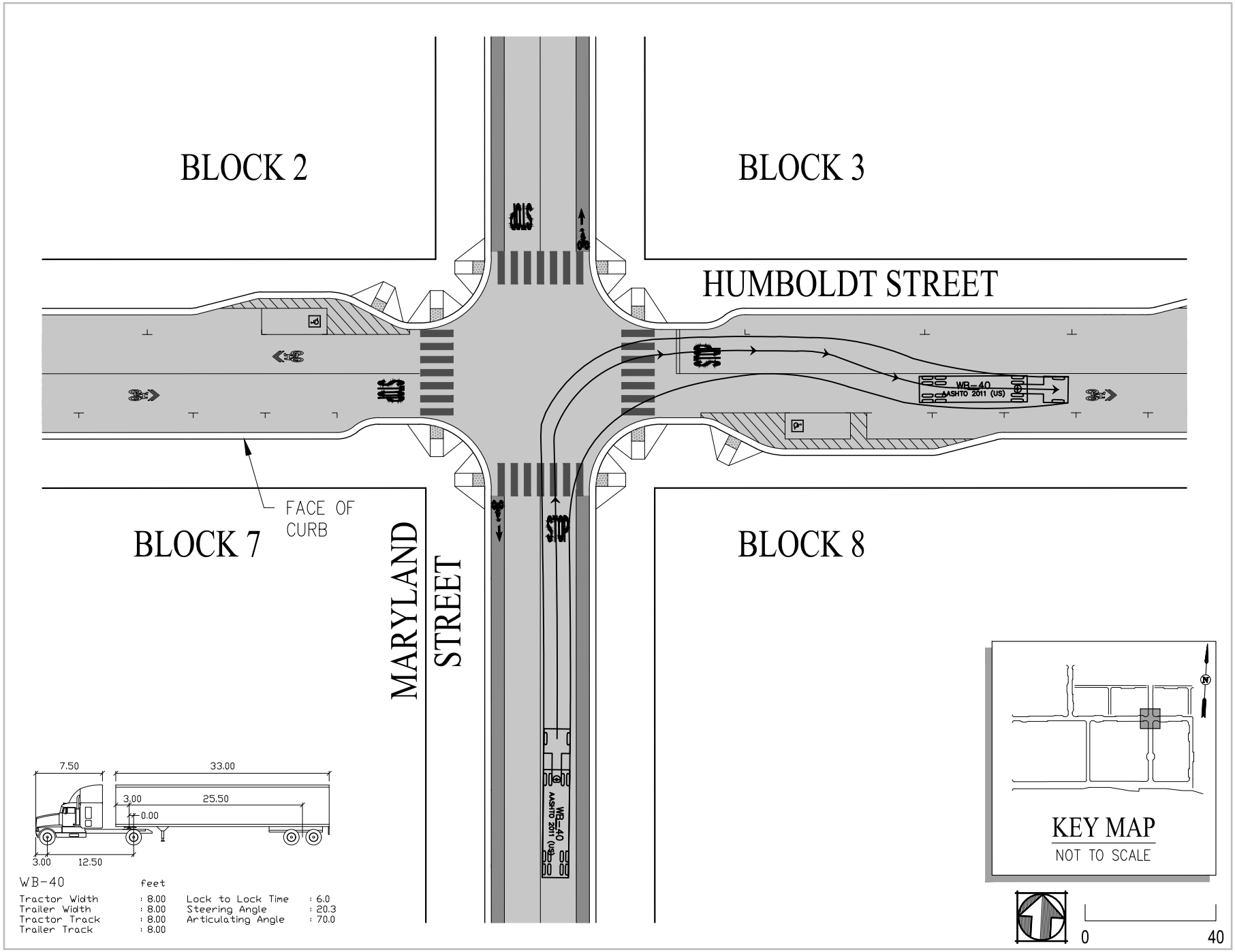
Appendix E Large Vehicle Movements – WB 40



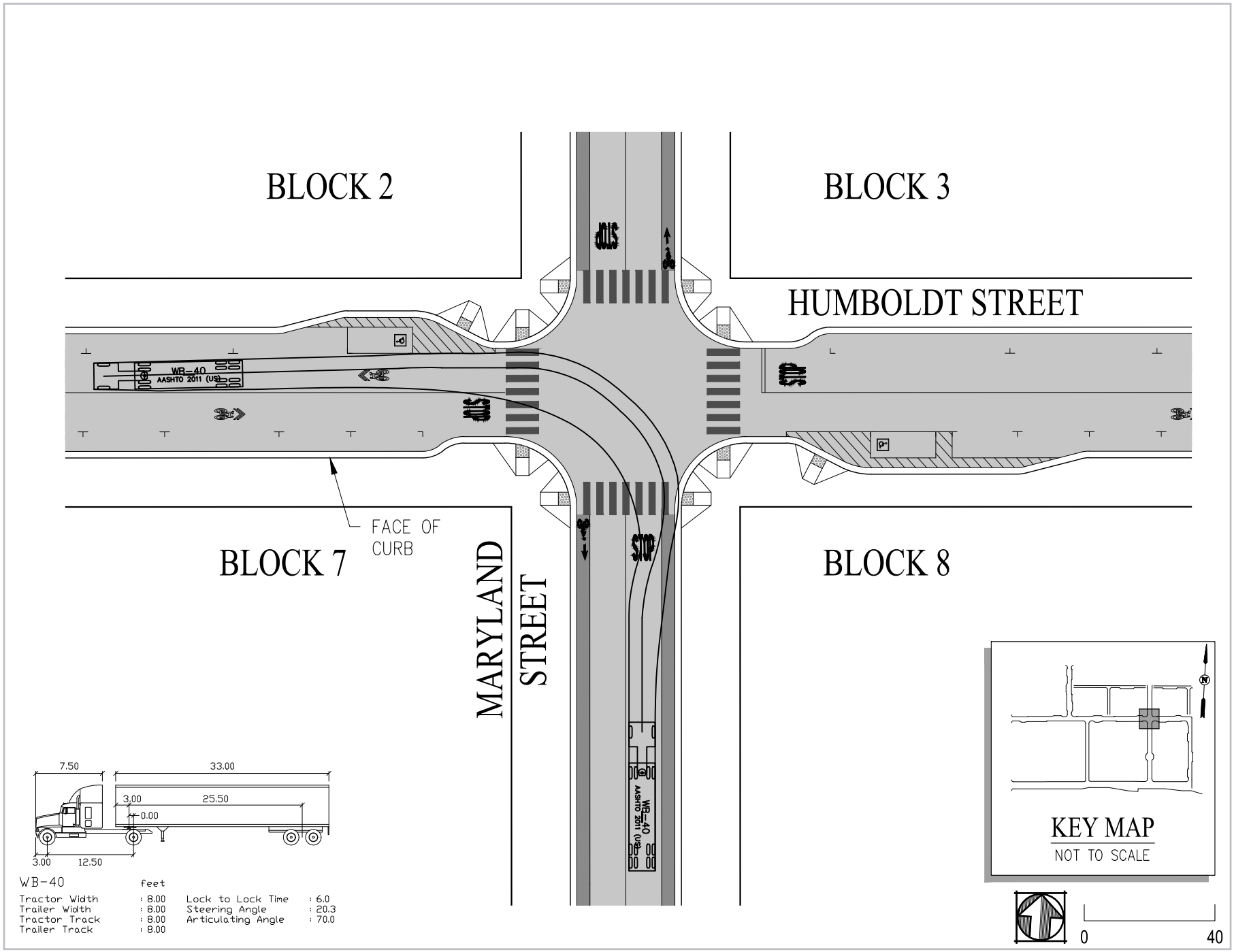
Appendix E Large Vehicle Movements – WB 40



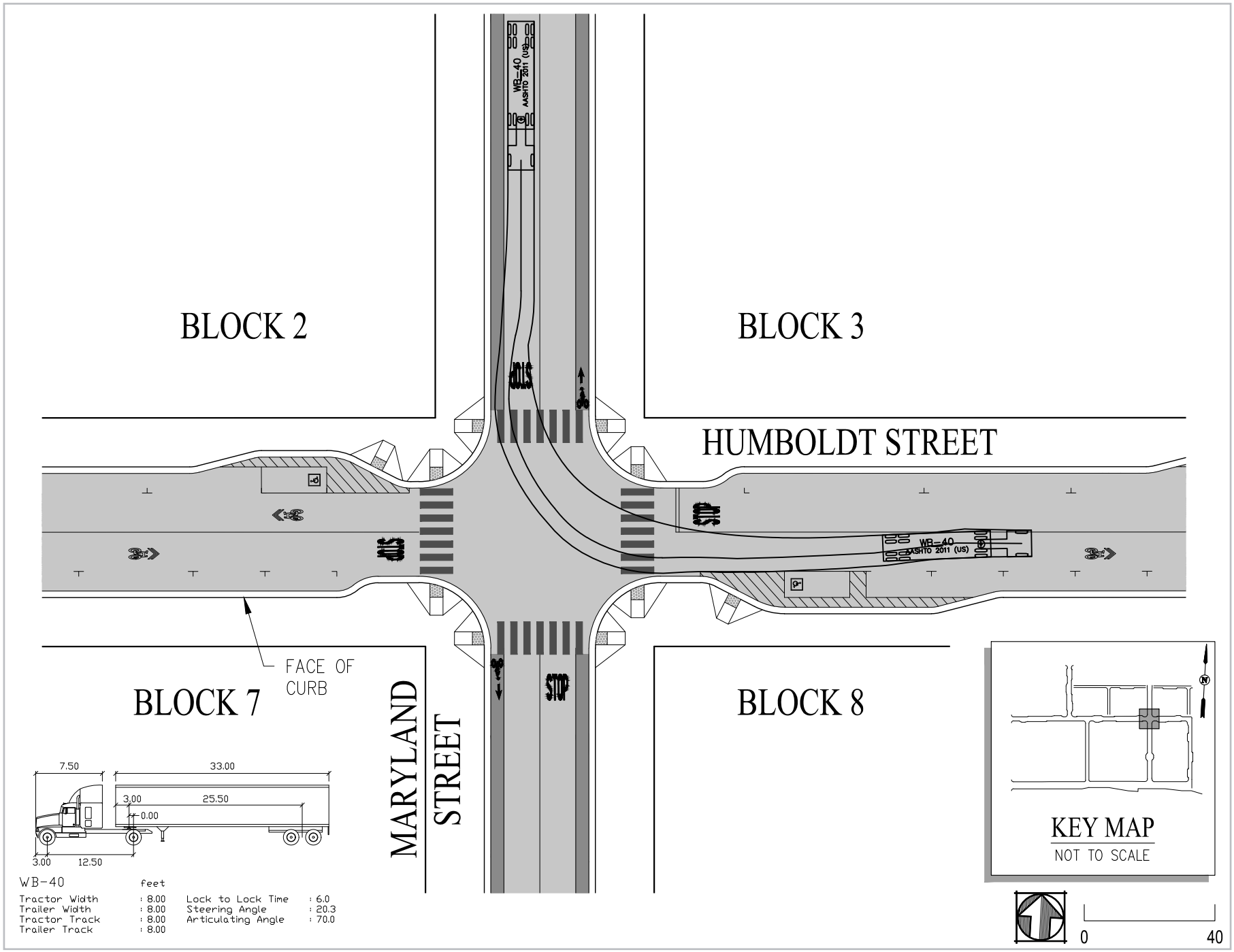
Appendix E Large Vehicle Movements – WB 40



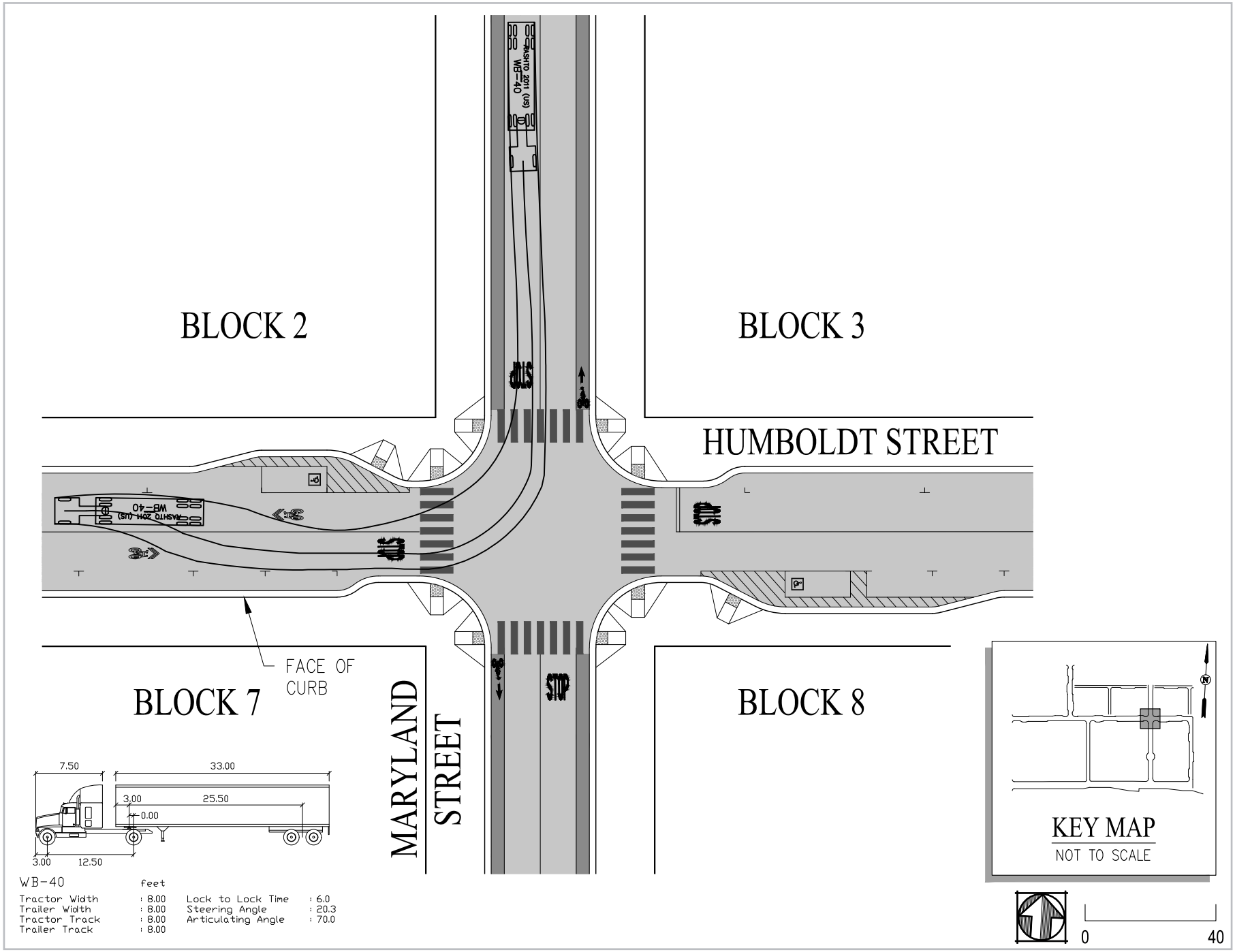
Appendix E Large Vehicle Movements – WB 40



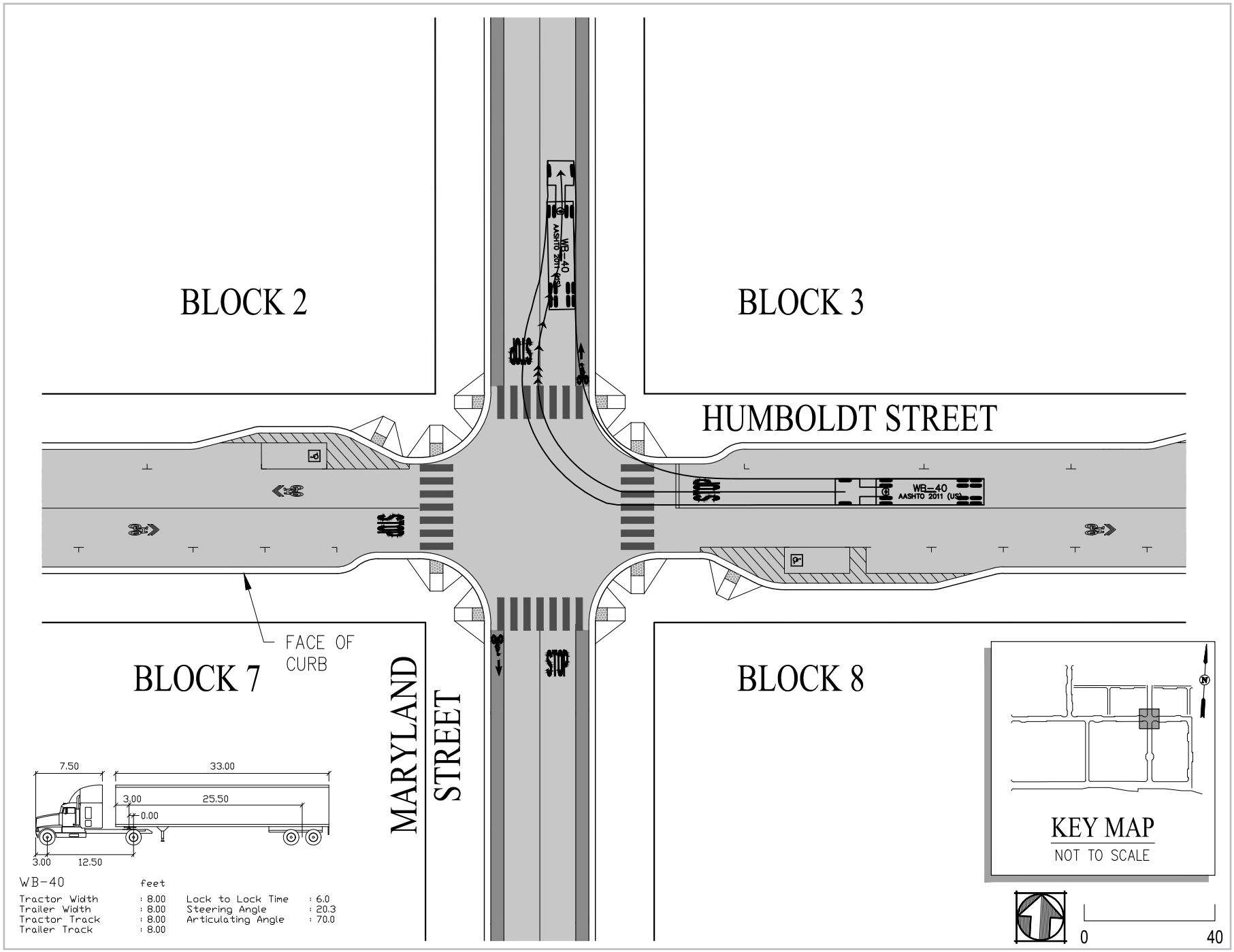
Appendix E Large Vehicle Movements – WB 40



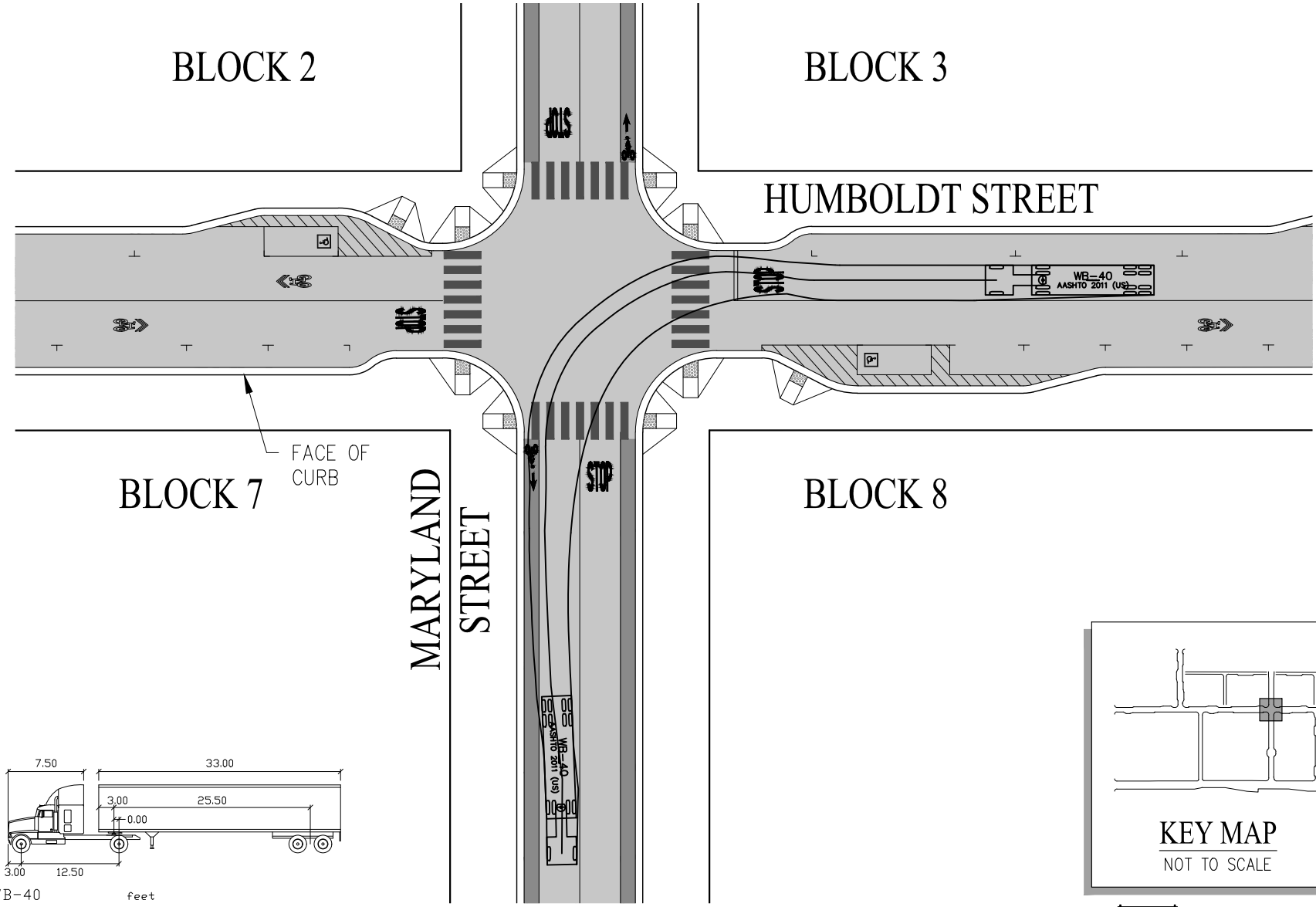
Appendix E Large Vehicle Movements – WB 40



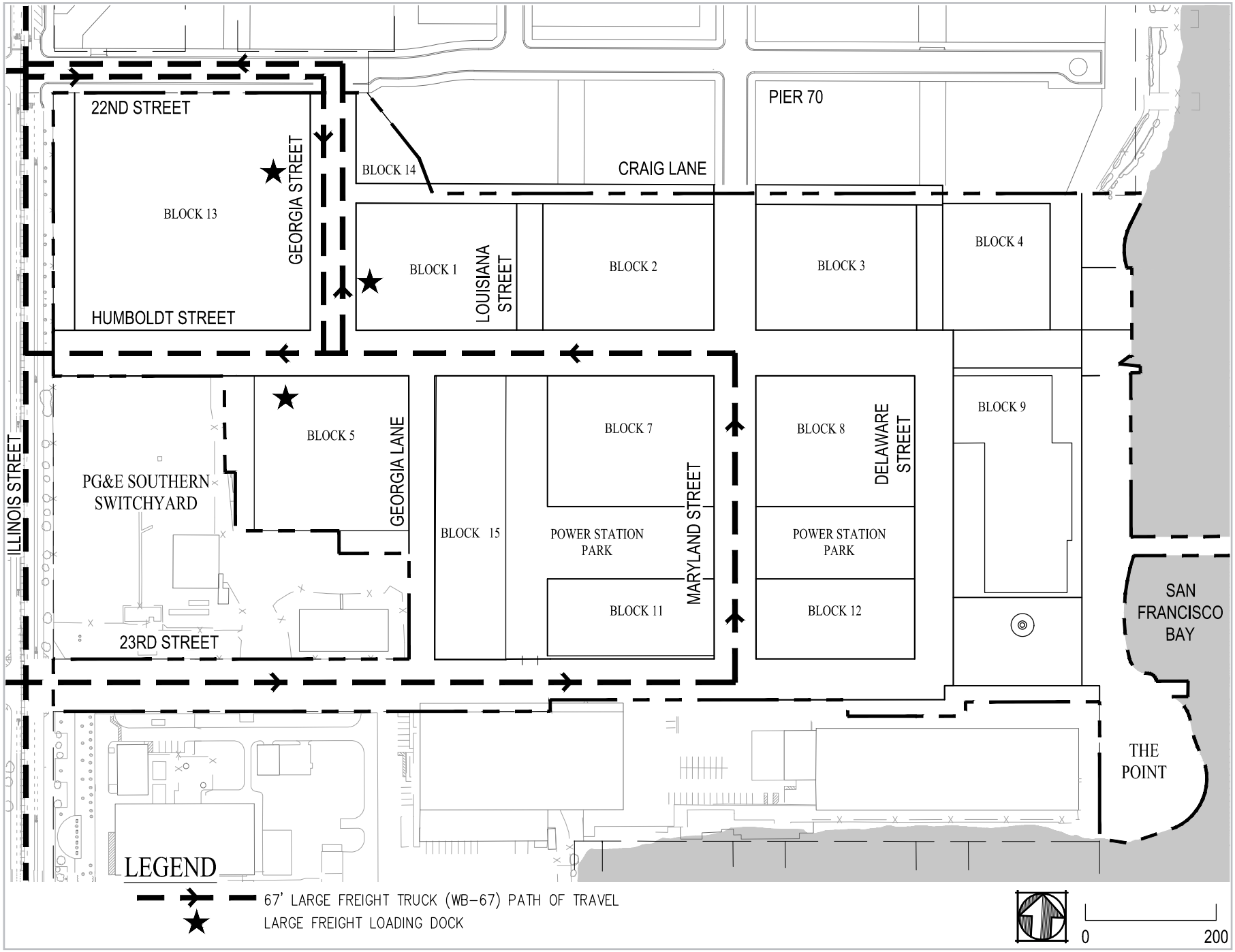
Appendix E Large Vehicle Movements – WB 40



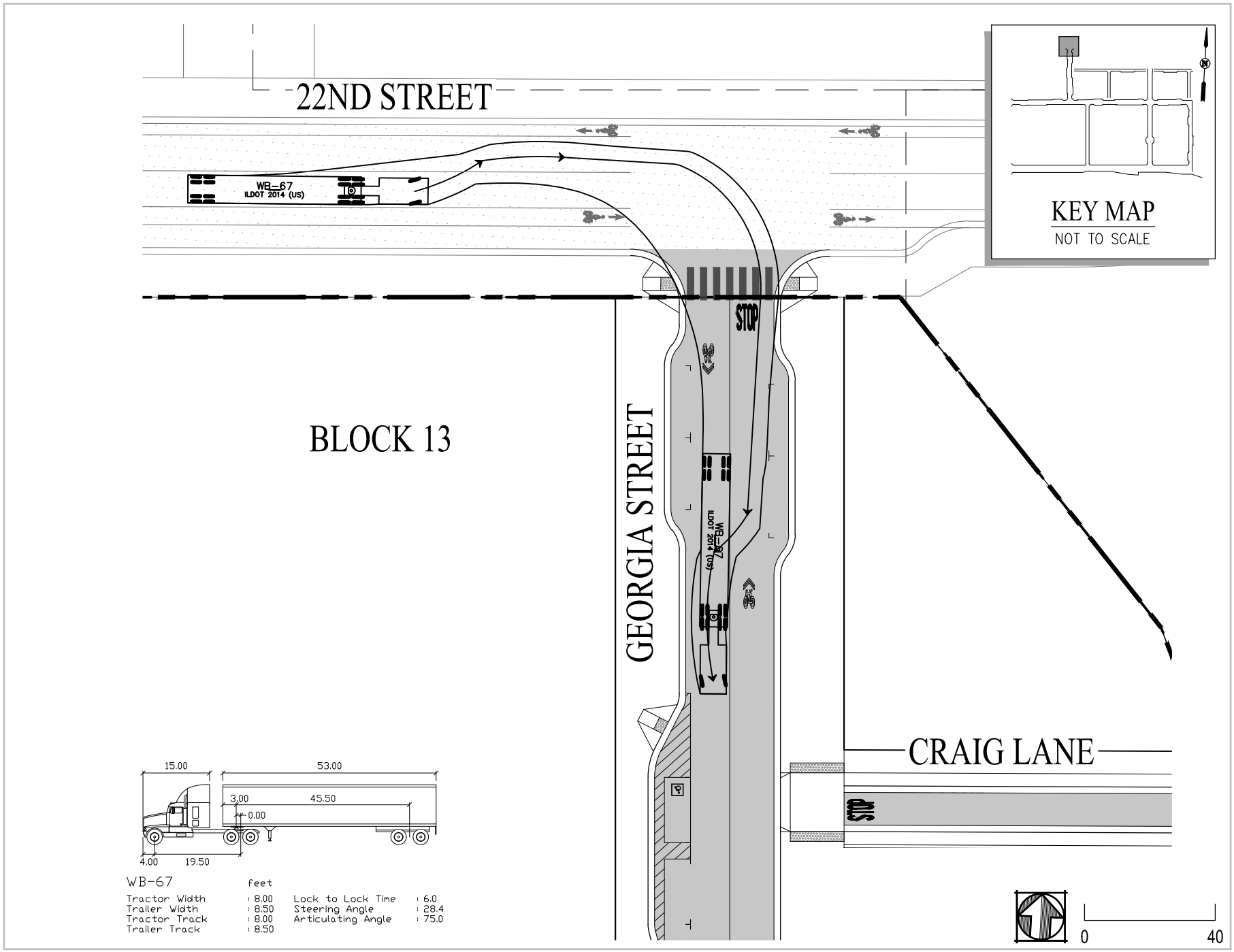
Appendix E Large Vehicle Movements – WB 40



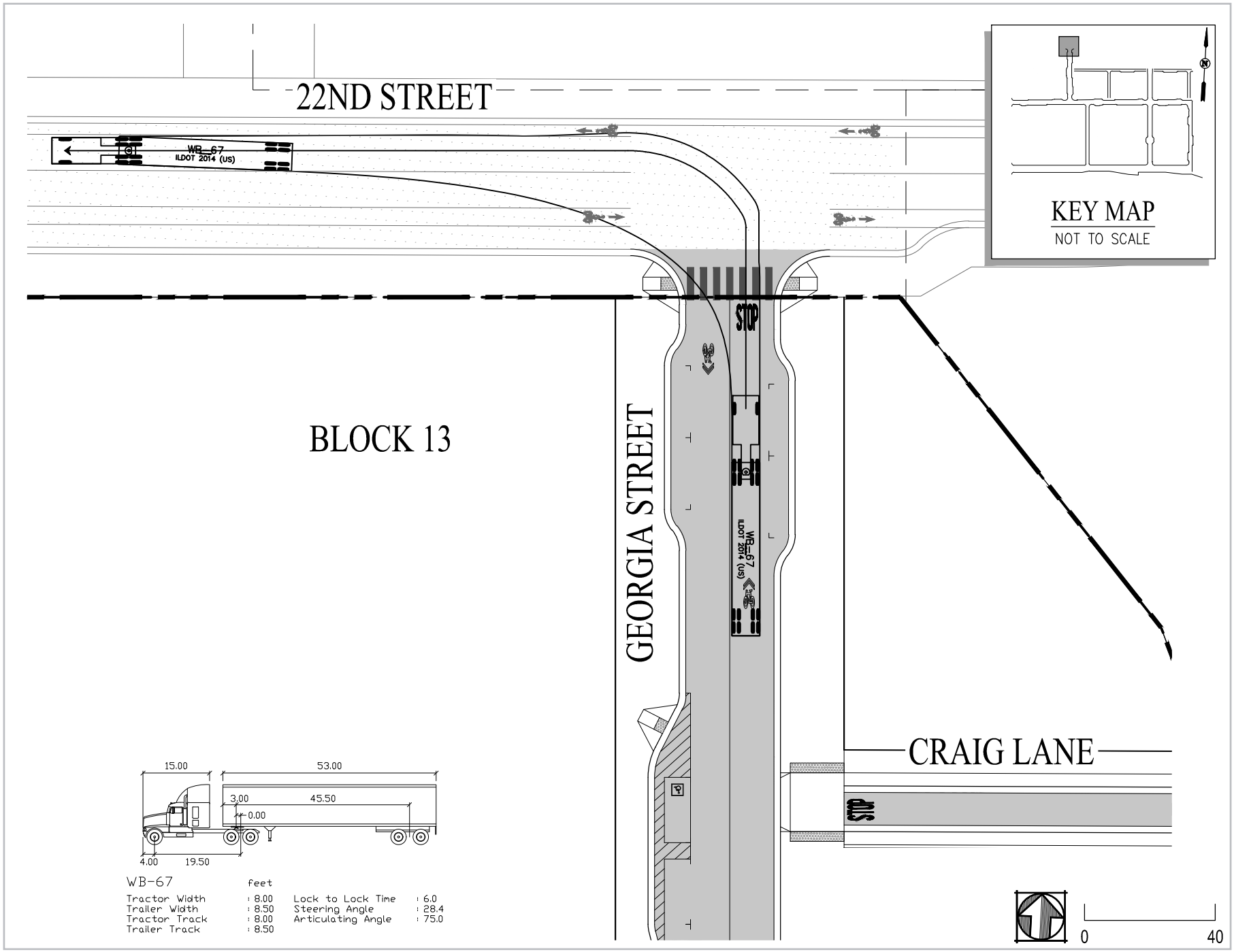
Appendix E Large Vehicle Movements – WB 40

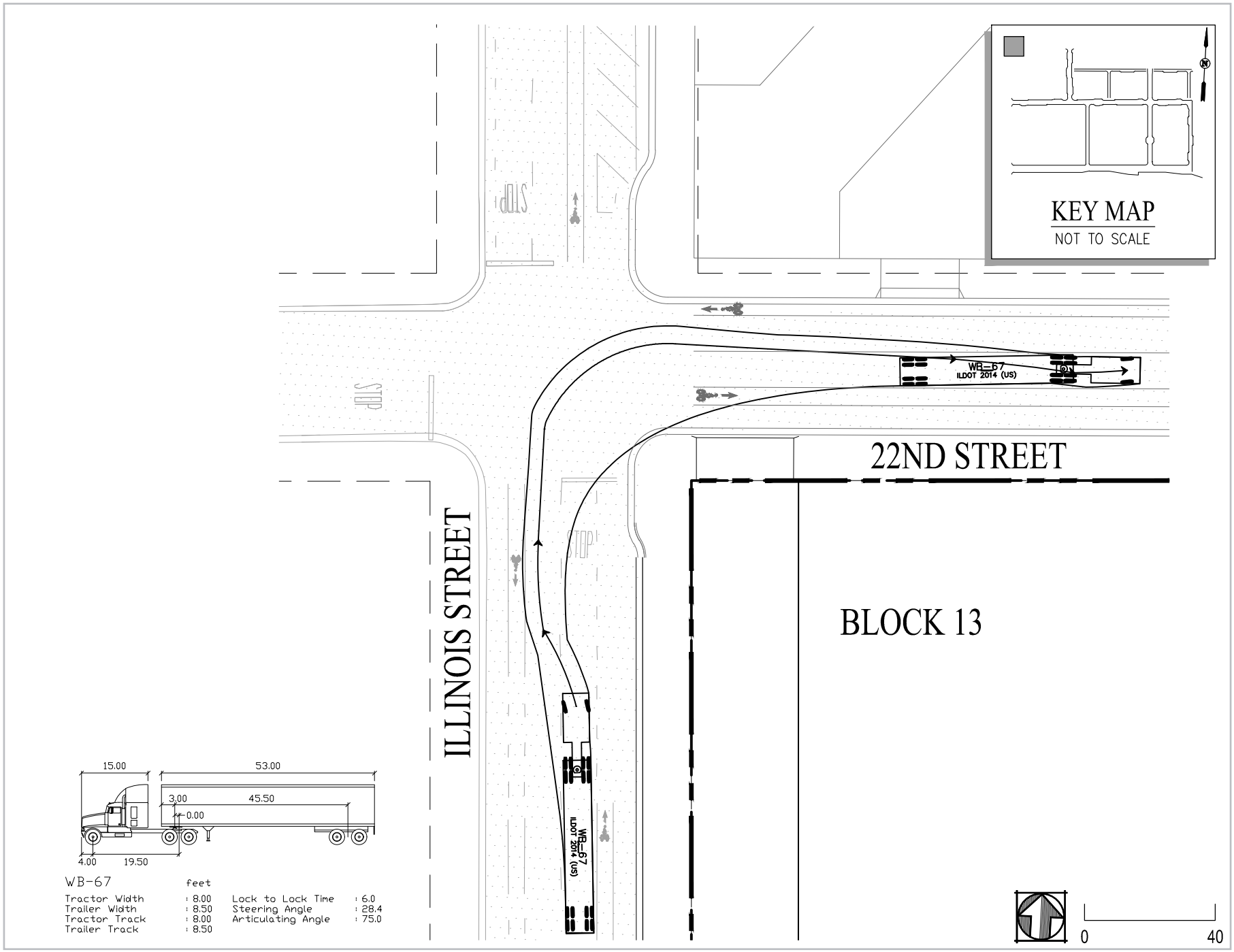


Appendix E Large Vehicle Movements – WB 67

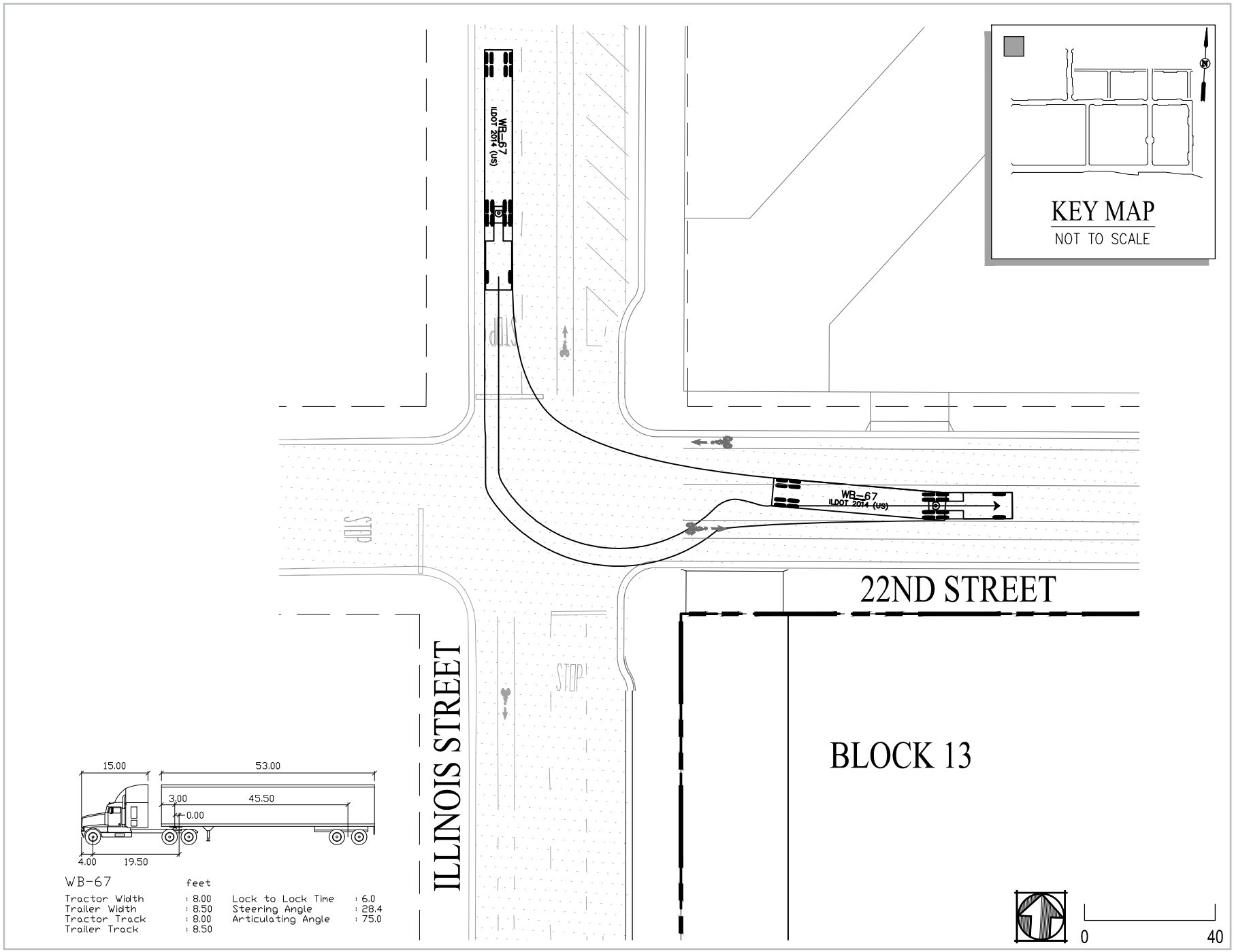


Appendix E Large Vehicle Movements – WB 67

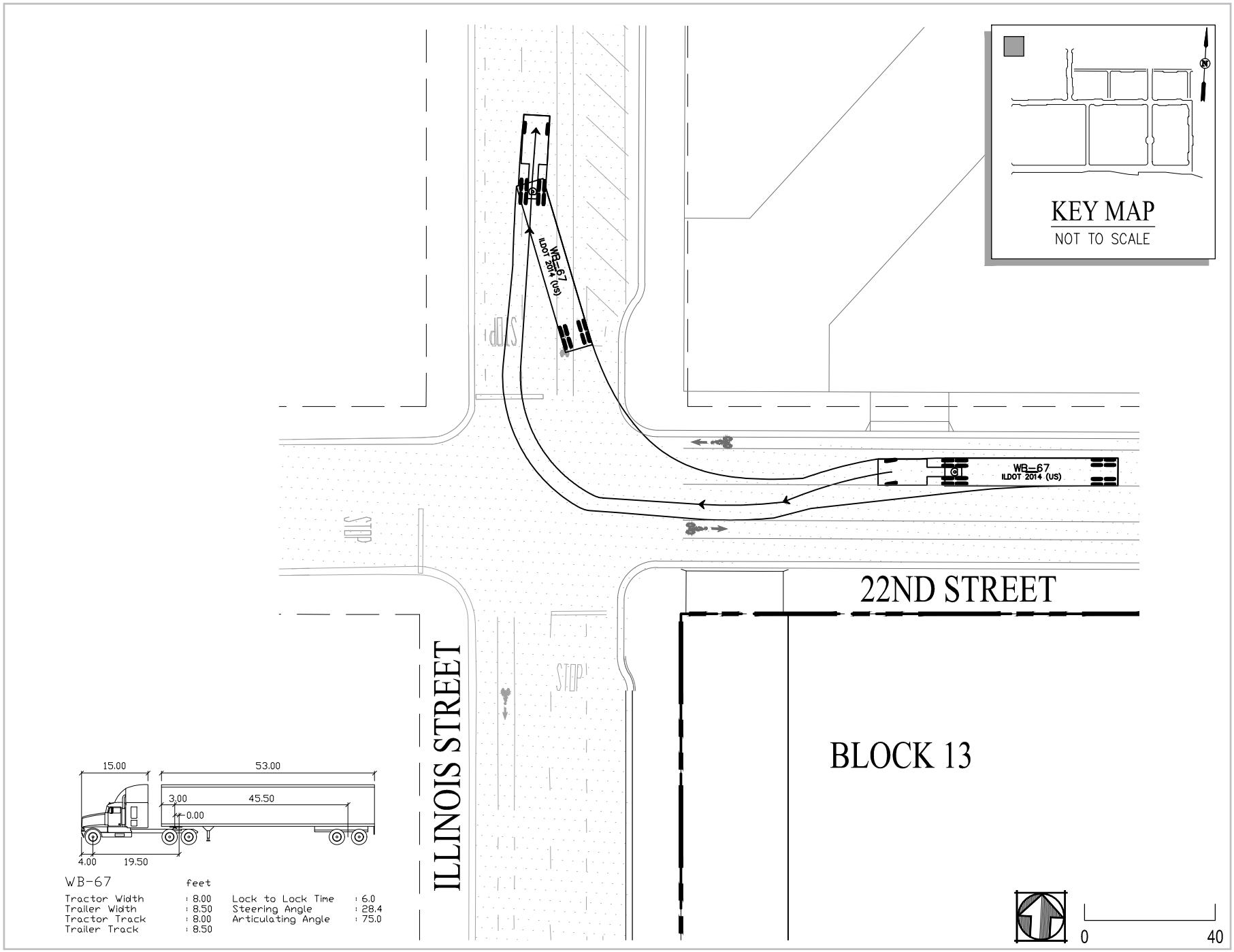

22ND STREET
WB-67
ILDOT 2014 (US)
KEY MAP
NOT TO SCALE
BLOCK 13
GEORGIA STREET
STOP
WB-67
ILDOT 2014 (US)
CRAIG LANE
15.00
53.00
3.00
45.50
0.00
4.00
19.50
WB-67
feet
Tractor Width : 8.00
Trailer Width : 8.50
Tractor Track : 8.00
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 28.4
Articulating Angle : 75.0
0
40



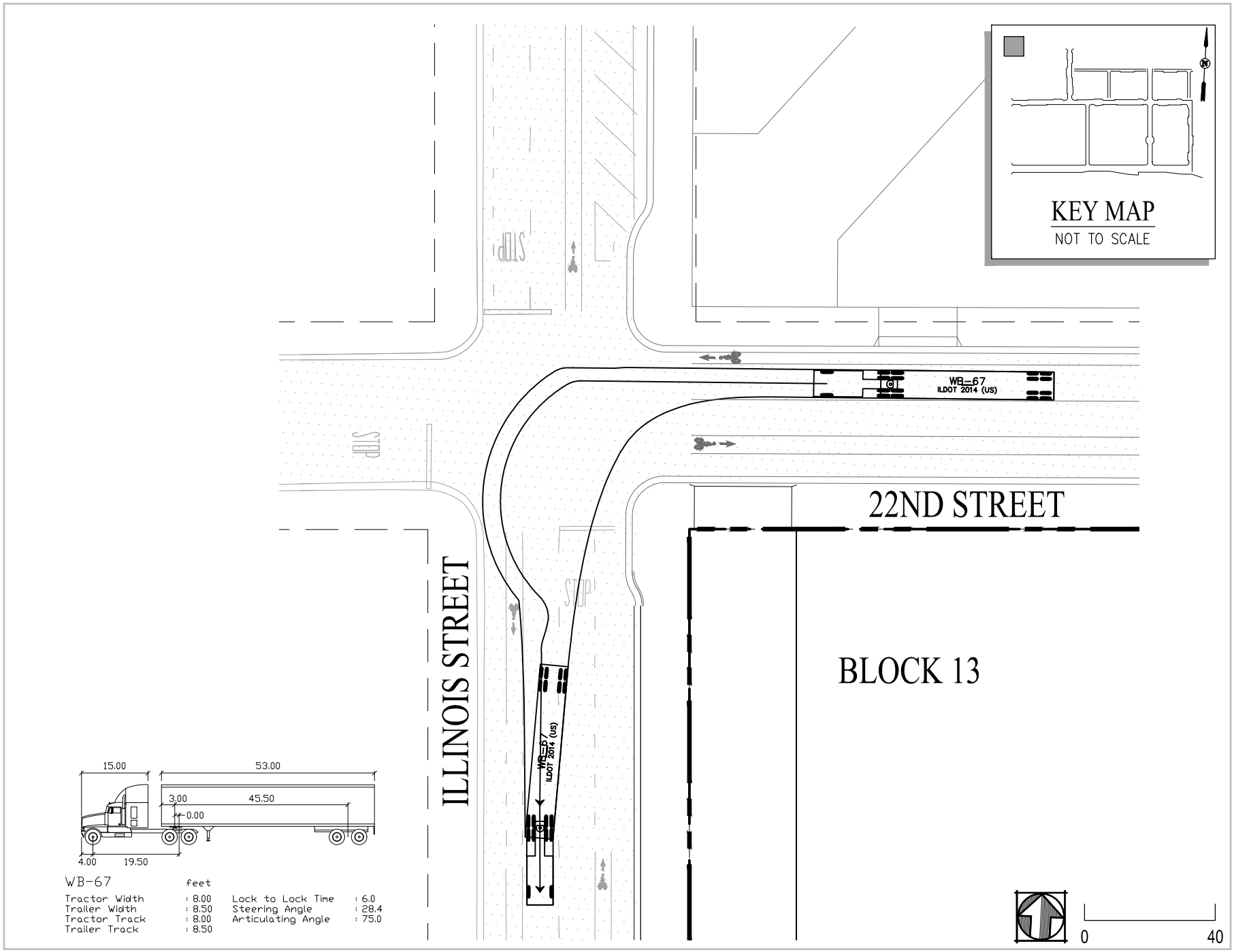
Appendix E Large Vehicle Movements – WB 67



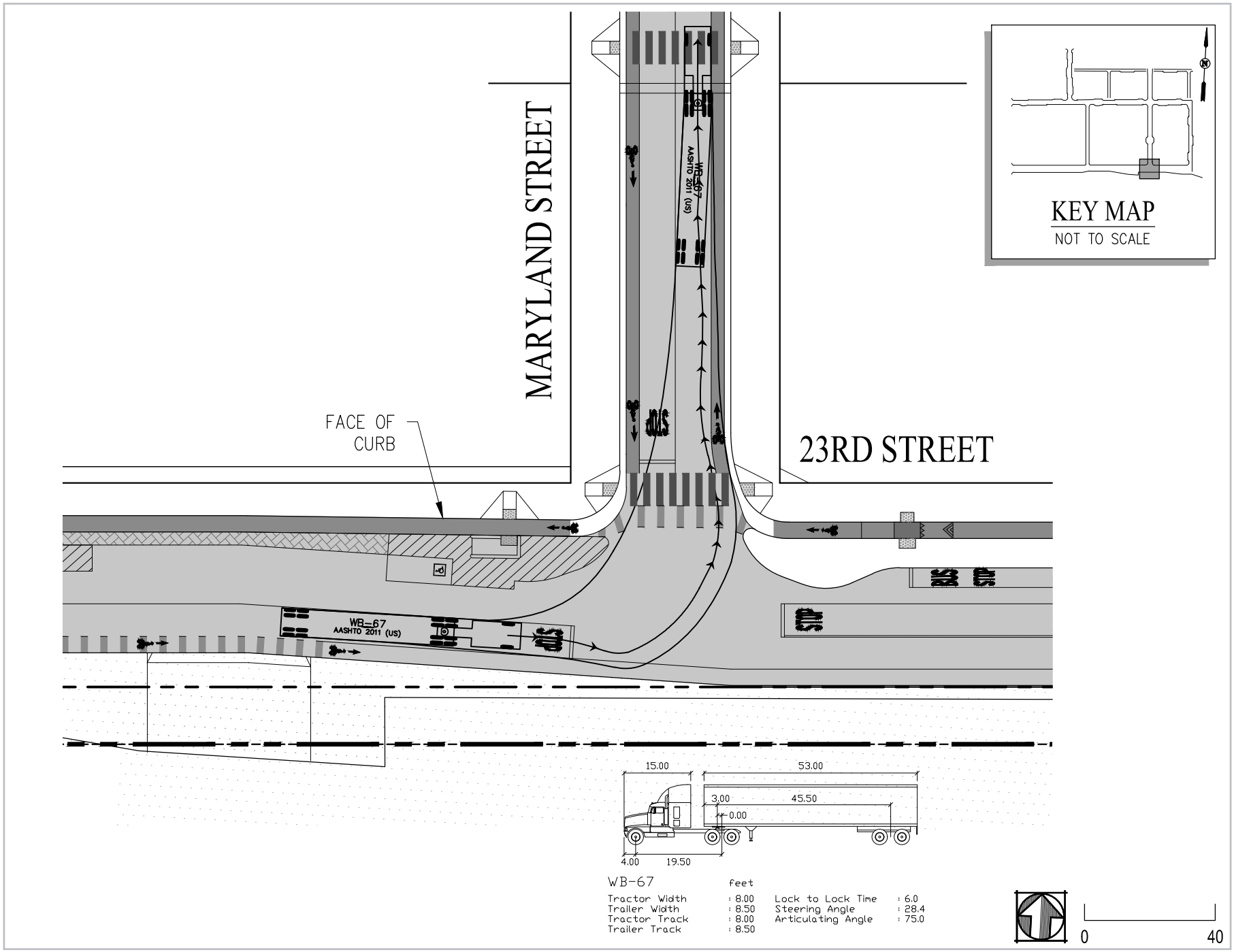
Appendix E Large Vehicle Movements – WB 67



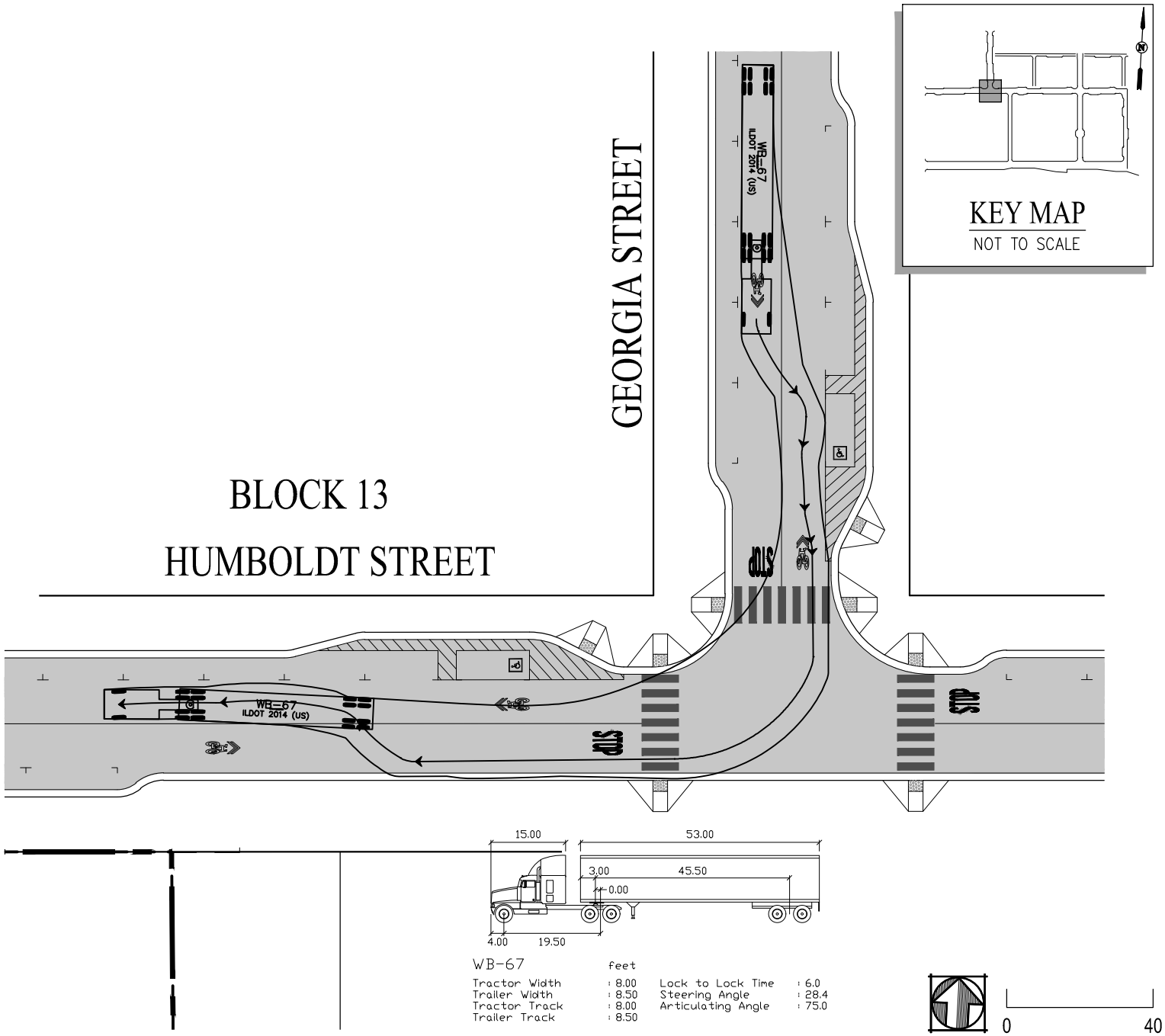
Appendix E Large Vehicle Movements – WB 67

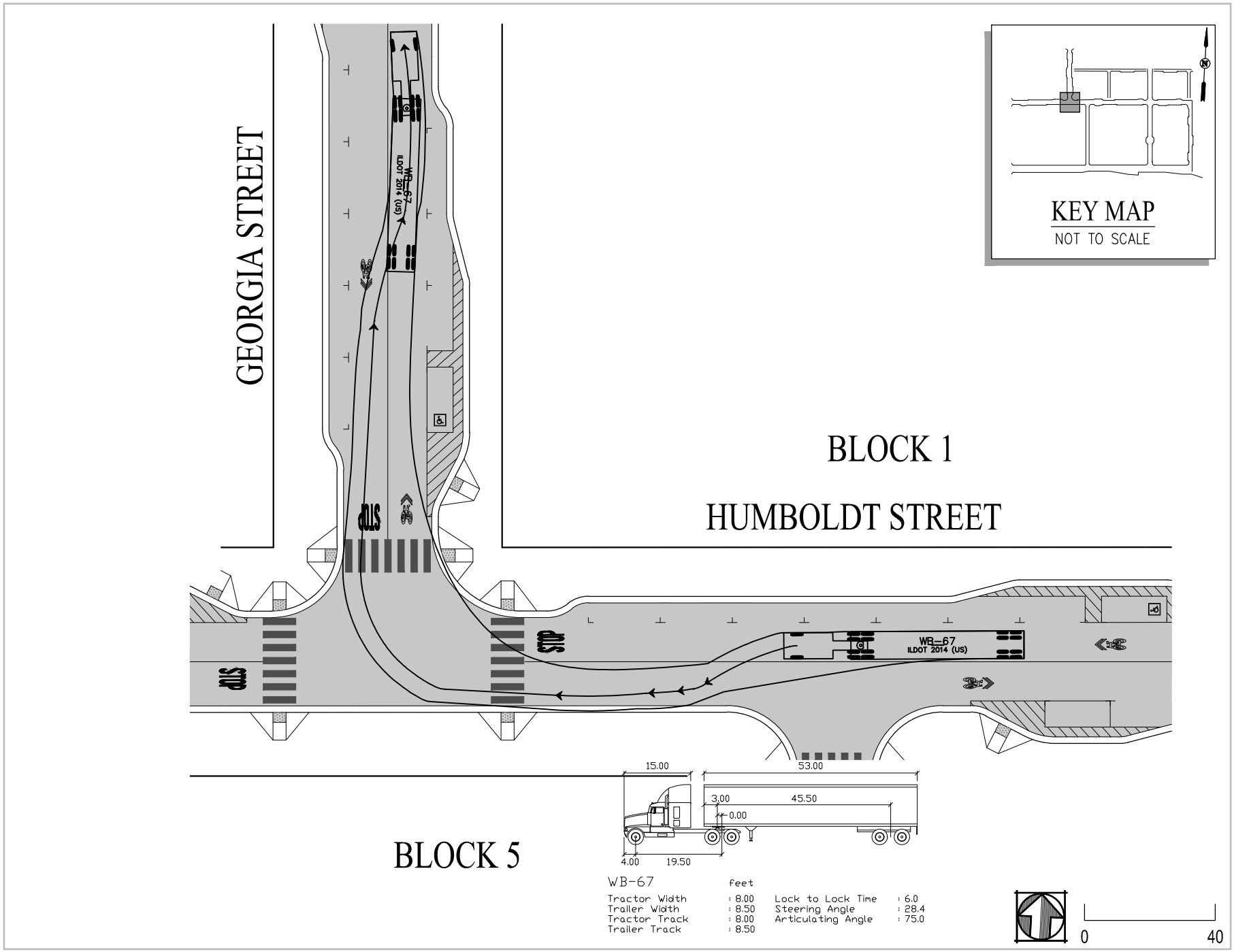


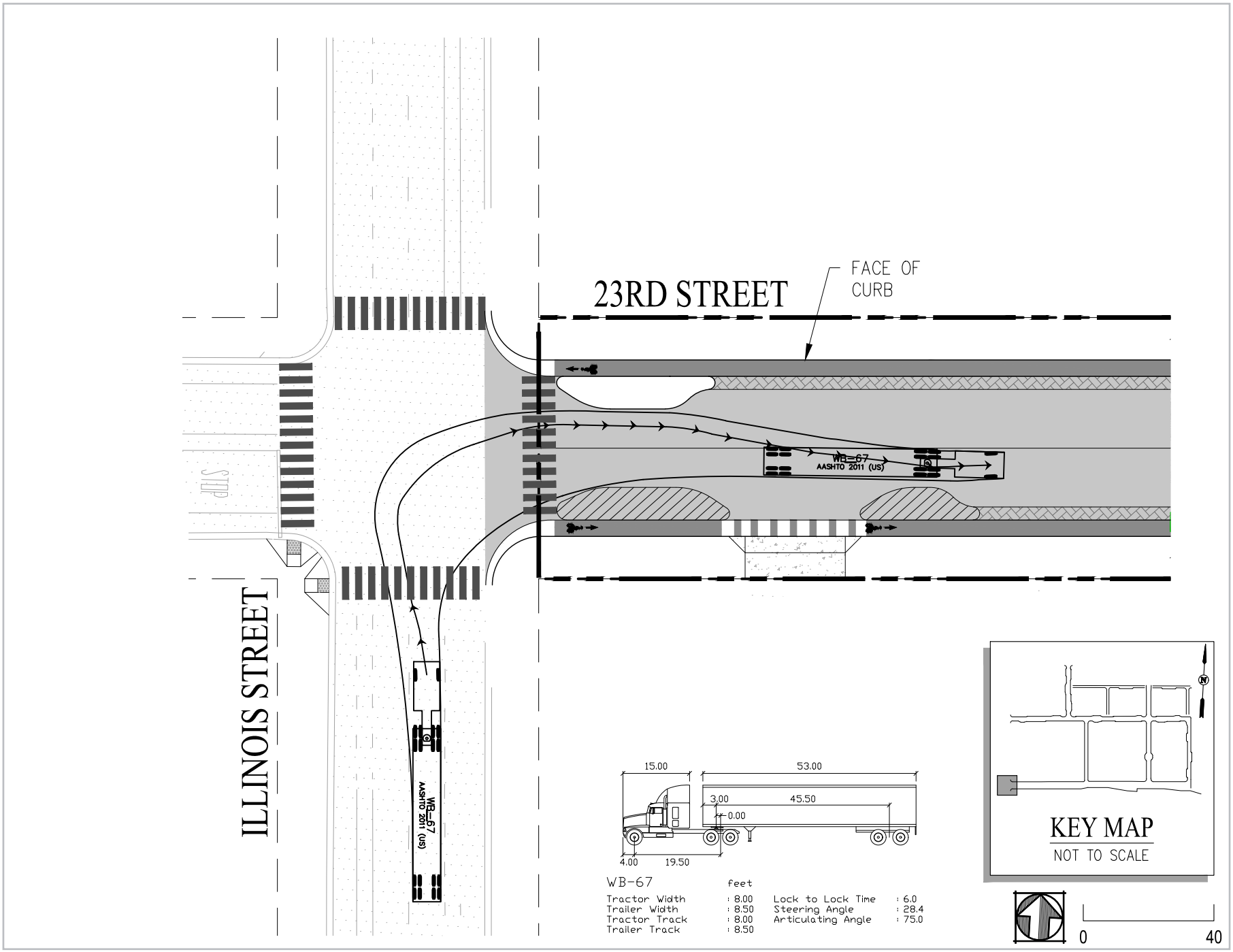
Appendix E Large Vehicle Movements – WB 67



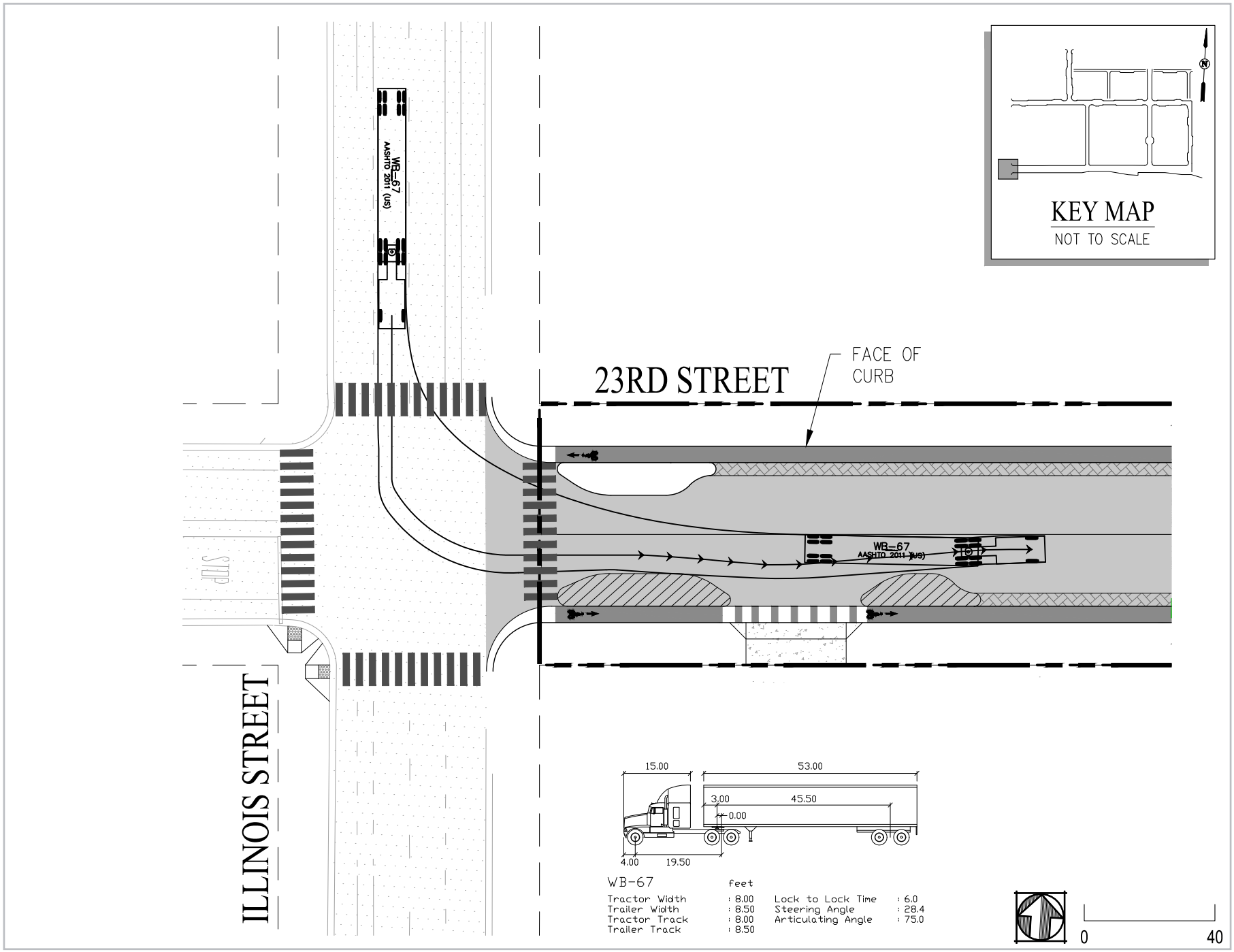
Appendix E Large Vehicle Movements – WB 67


GEORGIA STREET
BLOCK 13
HUMBOLDT STREET
WB-67
ILDOT 2014 (US)
STOP
KEY MAP
NOT TO SCALE
15.00
53.00
3.00
45.50
0.00
4.00
19.50
WB-67
feet
Tractor Width : 8.00
Trailer Width : 8.50
Tractor Track : 8.00
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 28.4
Articulating Angle : 75.0
0
40

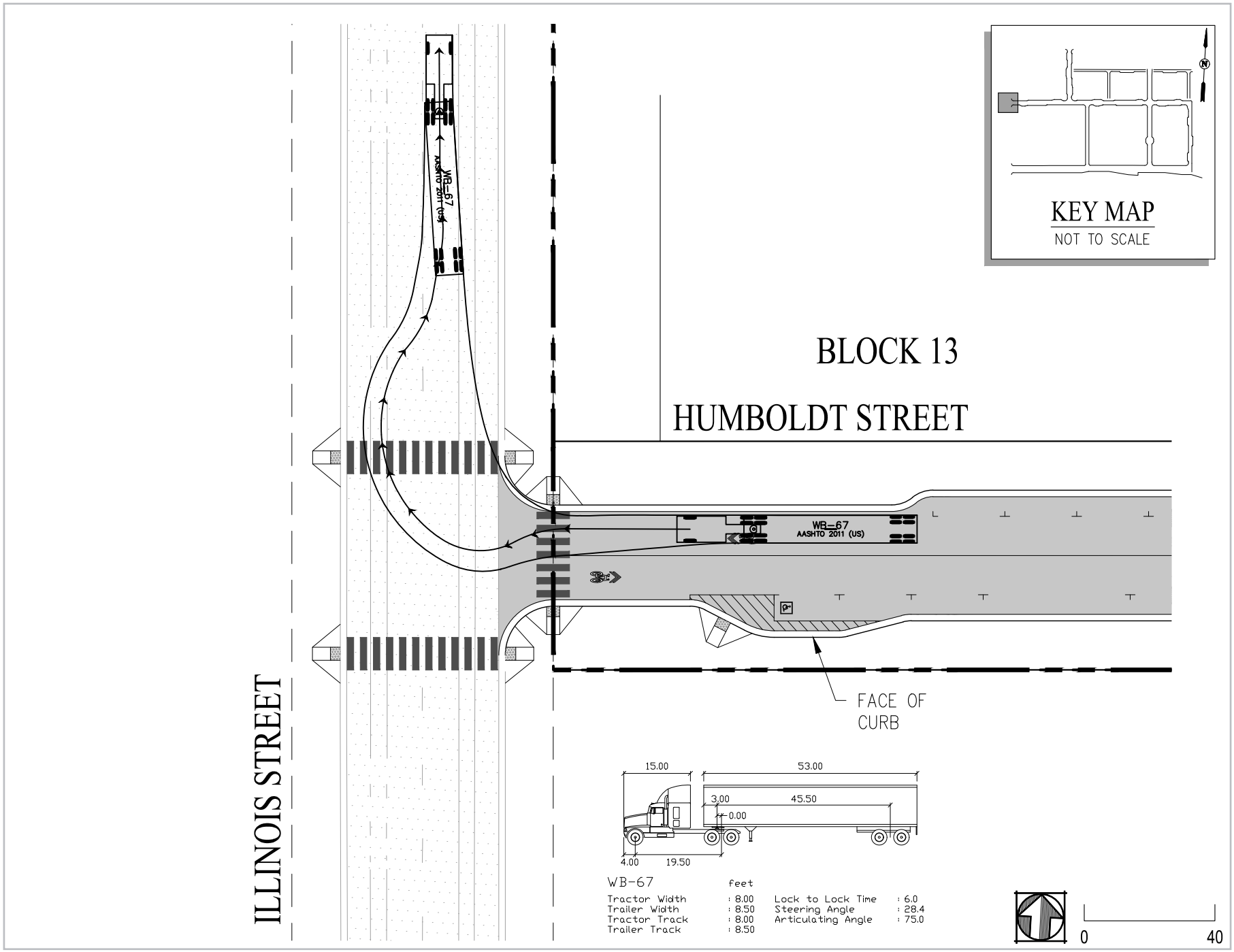

GEORGIA STREET
HUMBOLDT STREET
BLOCK 1
BLOCK 5
WB-67
ILDOT 2014 (US)
STOP
KEY MAP
NOT TO SCALE
15.00
53.00
3.00
45.50
0.00
4.00
19.50
WB-67
feet
Tractor Width : 8.00
Trailer Width : 8.50
Tractor Track : 8.00
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 28.4
Articulating Angle : 75.0
0
40

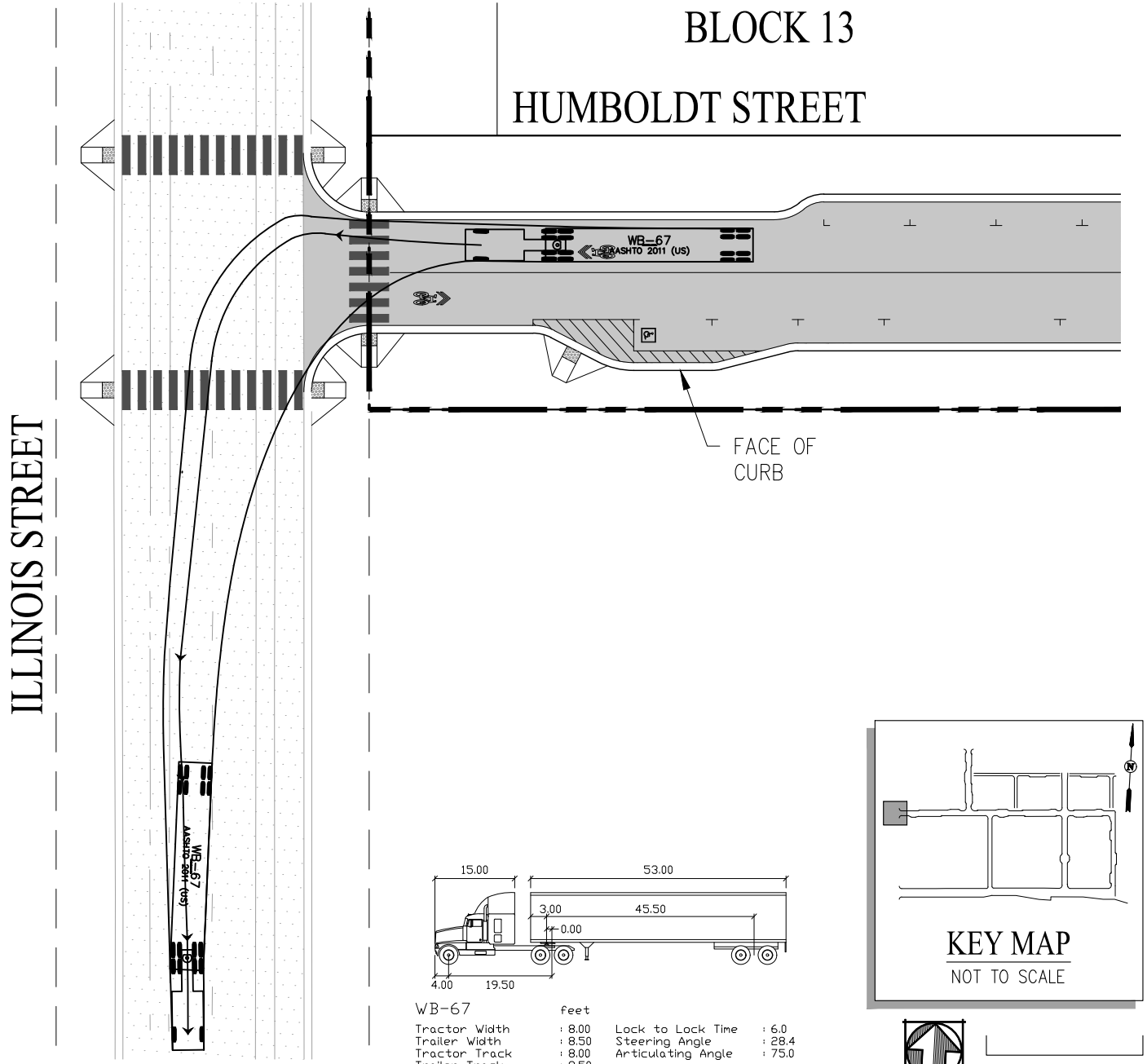


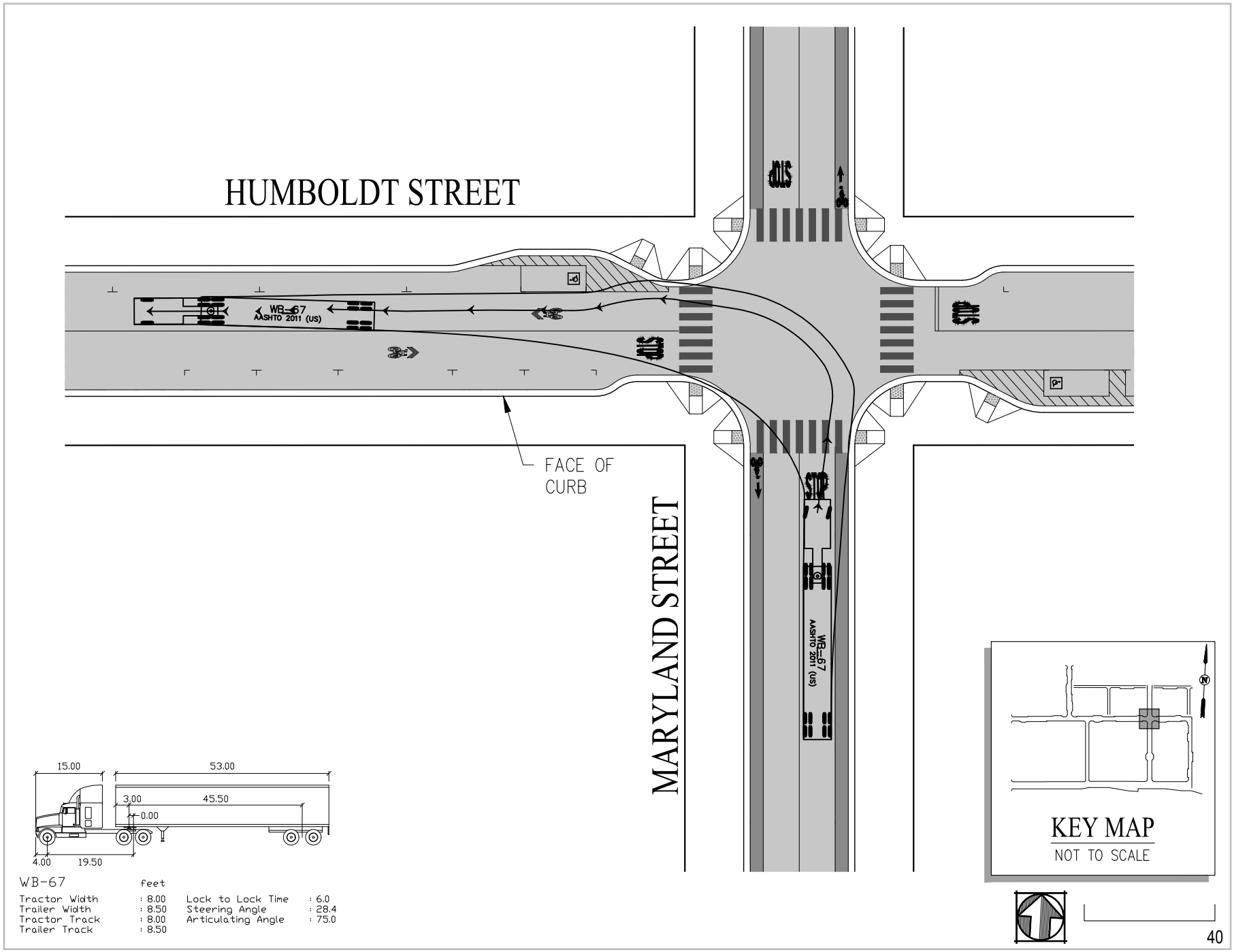
Appendix E Large Vehicle Movements – WB 67



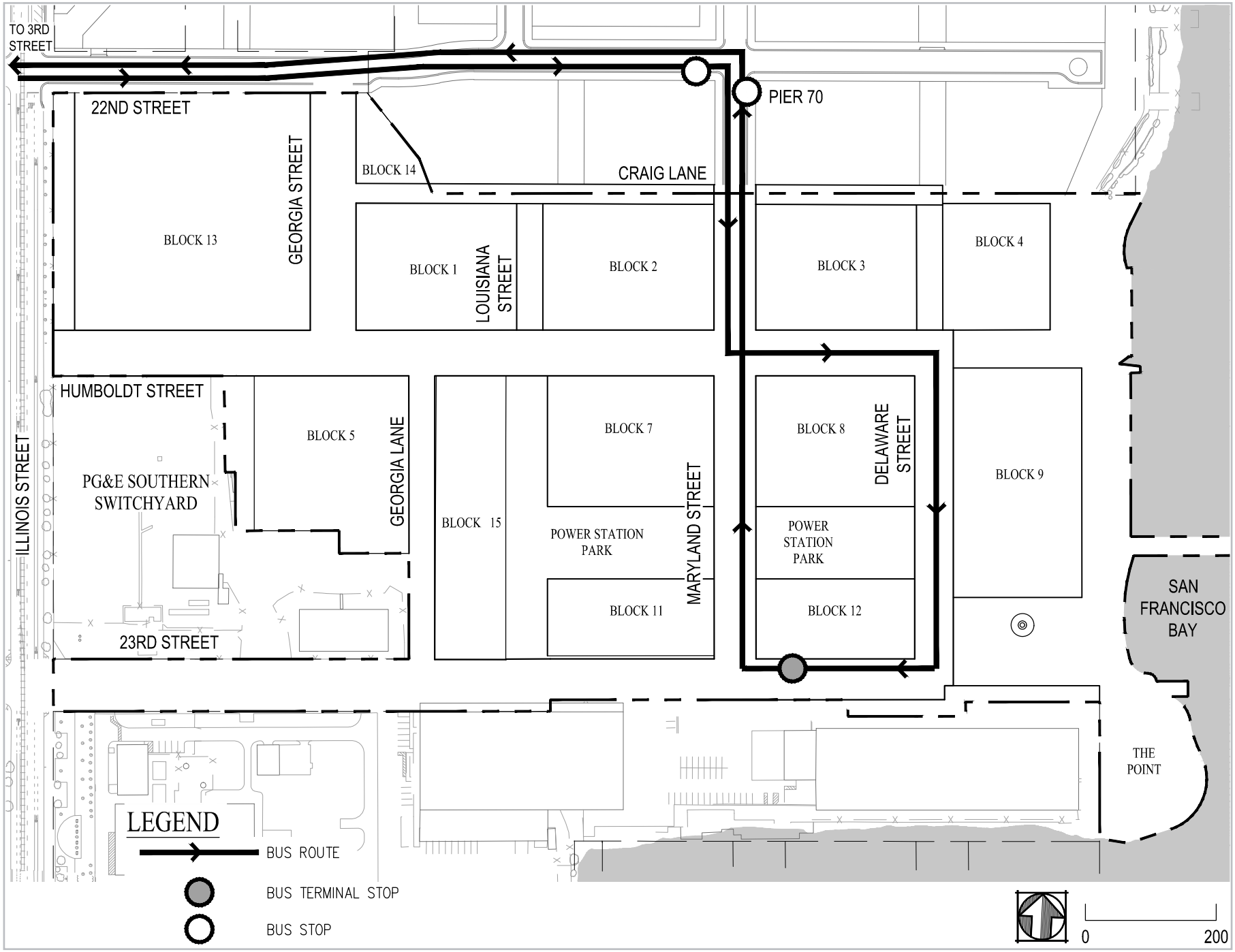
Appendix E Large Vehicle Movements – WB 67


KEY MAP
NOT TO SCALE
BLOCK 13
HUMBOLDT STREET
ILLINOIS STREET
WB-67
AASHTO 2011 (US)
FACE OF CURB
15.00
53.00
3.00
45.50
0.00
4.00
19.50
WB-67
feet
Tractor Width : 8.00
Trailer Width : 8.50
Tractor Track : 8.00
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 28.4
Articulating Angle : 75.0
0
40

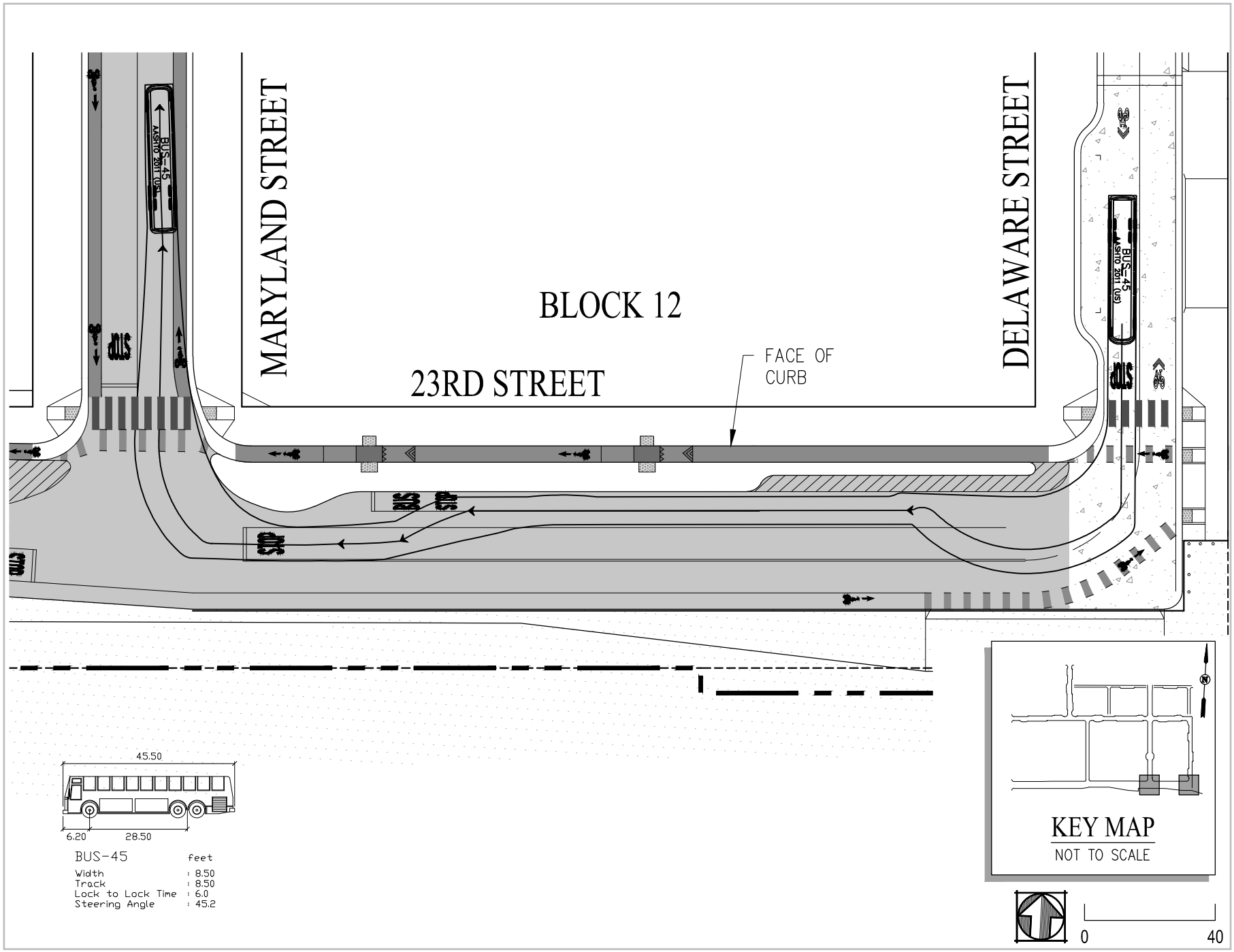

BLOCK 13
HUMBOLDT STREET
ILLINOIS STREET
WB-67
AASHTO 2011 (US)
FACE OF
CURB
WB-67
AASHTO 2011 (US)
15.00
53.00
3.00
45.50
0.00
4.00
19.50
WB-67
feet
Tractor Width : 8.00
Trailer Width : 8.50
Tractor Track : 8.00
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 28.4
Articulating Angle : 75.0
KEY MAP
NOT TO SCALE
0
40


HUMBOLDT STREET
WB-67
AASHTO 2011 (US)
FACE OF
CURB
MARYLAND STREET
WB-67
AASHTO 2011 (US)
15.00
53.00
3.00
45.50
0.00
4.00
19.50
WB-67
feet
Tractor Width : 8.00
Trailer Width : 8.50
Tractor Track : 8.00
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 28.4
Articulating Angle : 75.0
KEY MAP
NOT TO SCALE

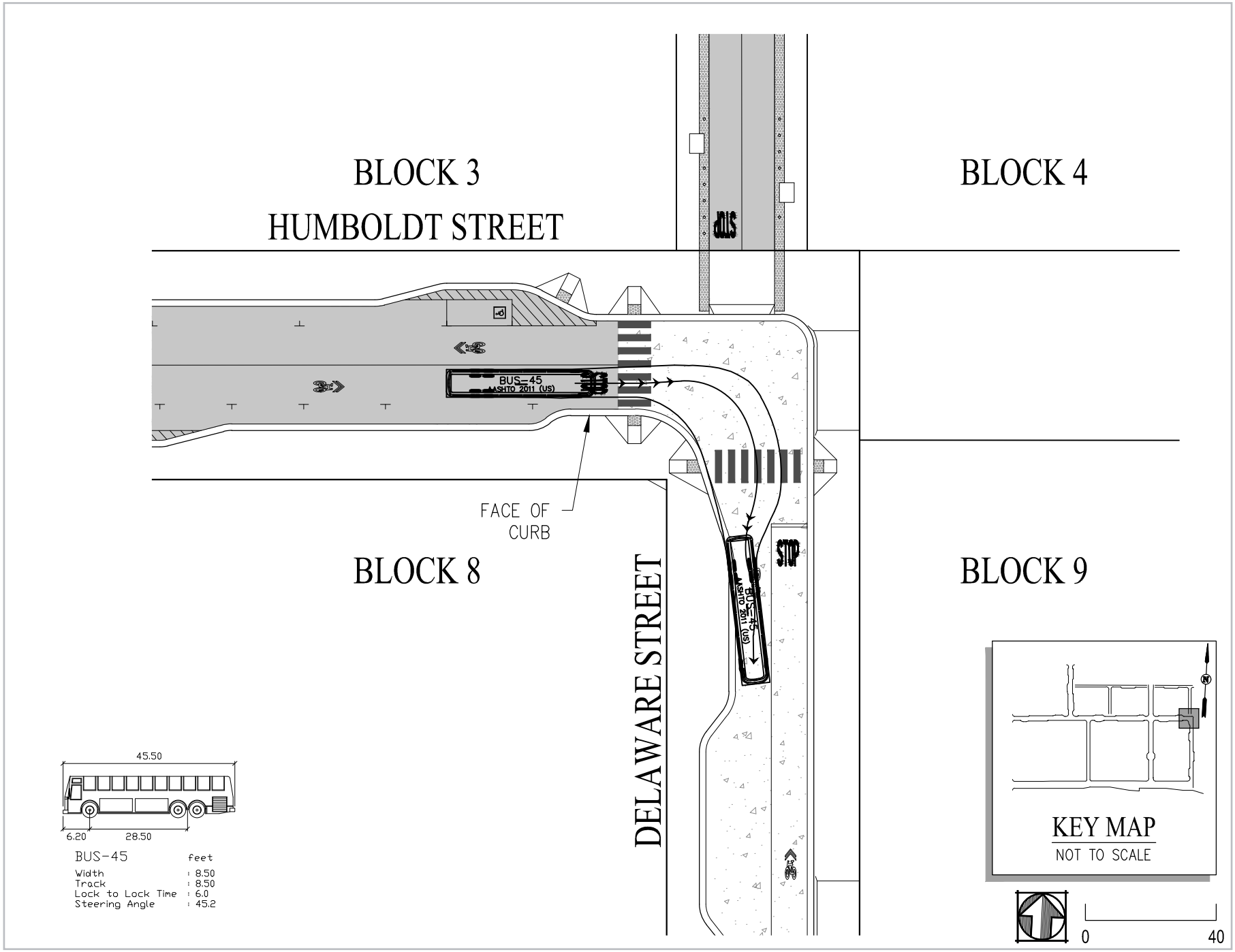
Appendix F
Bus Route Turning Movements



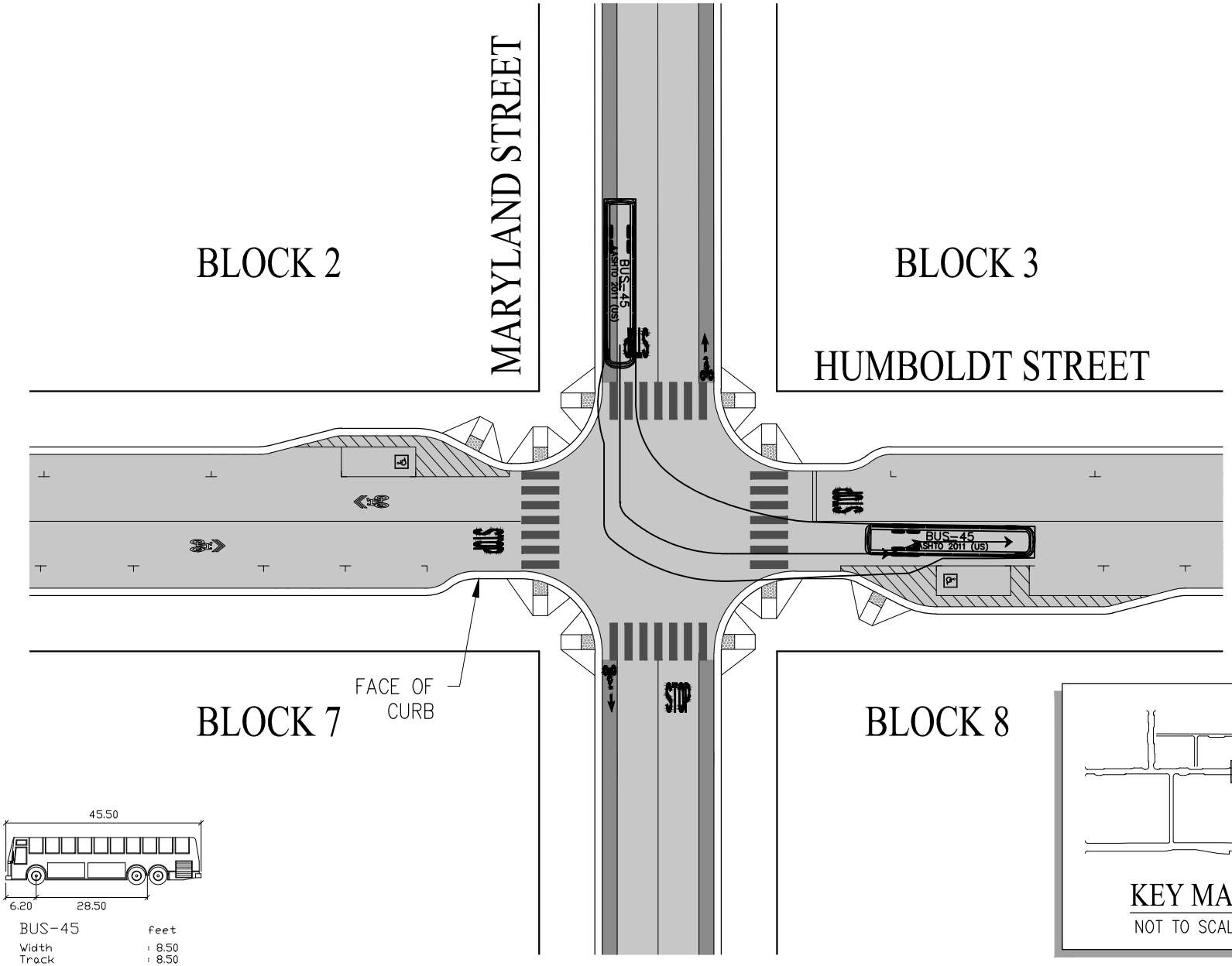
Appendix F Bus Route Turning Movements – BUS 45



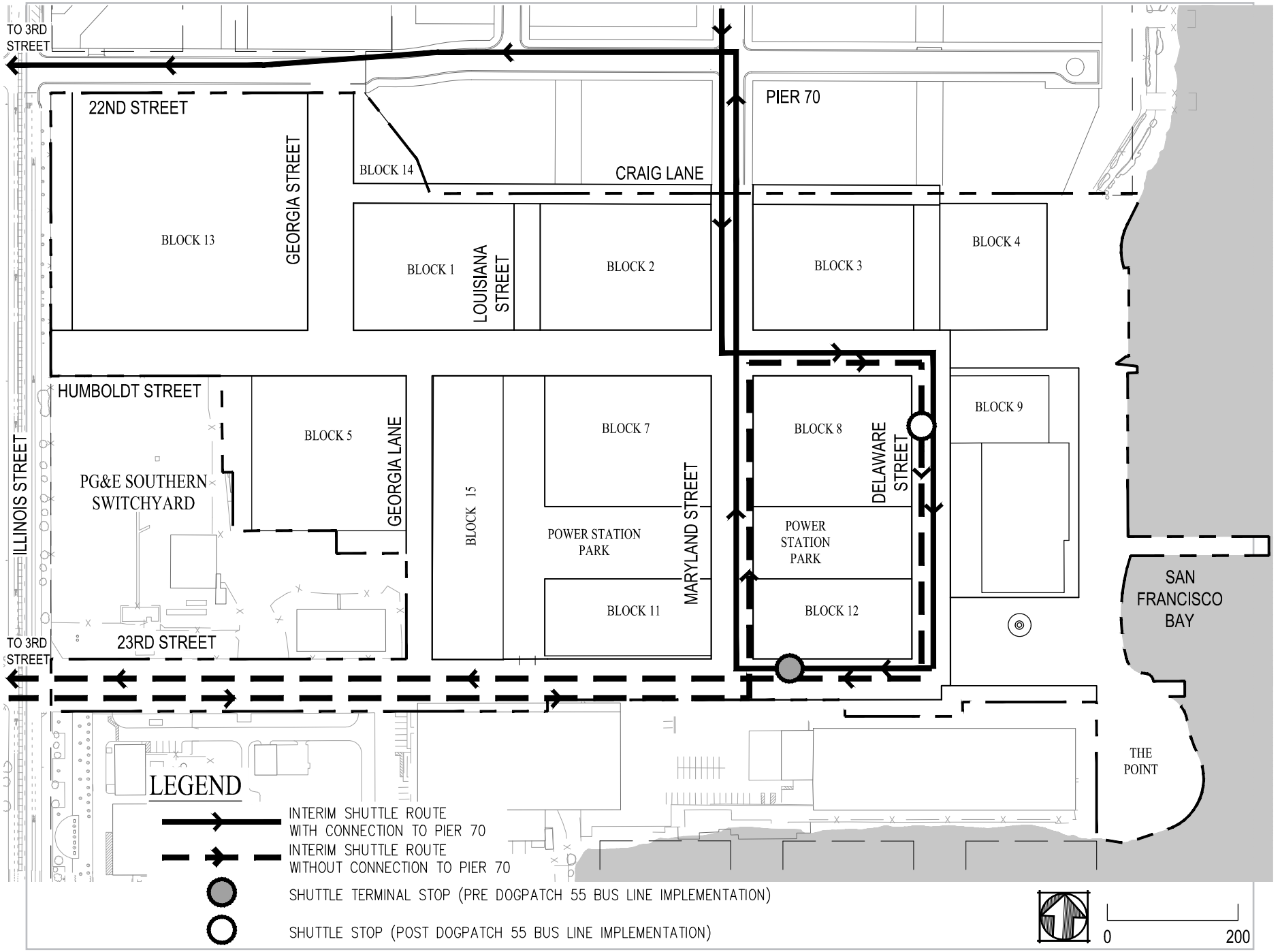
Appendix F Bus Route Turning Movements – BUS 45



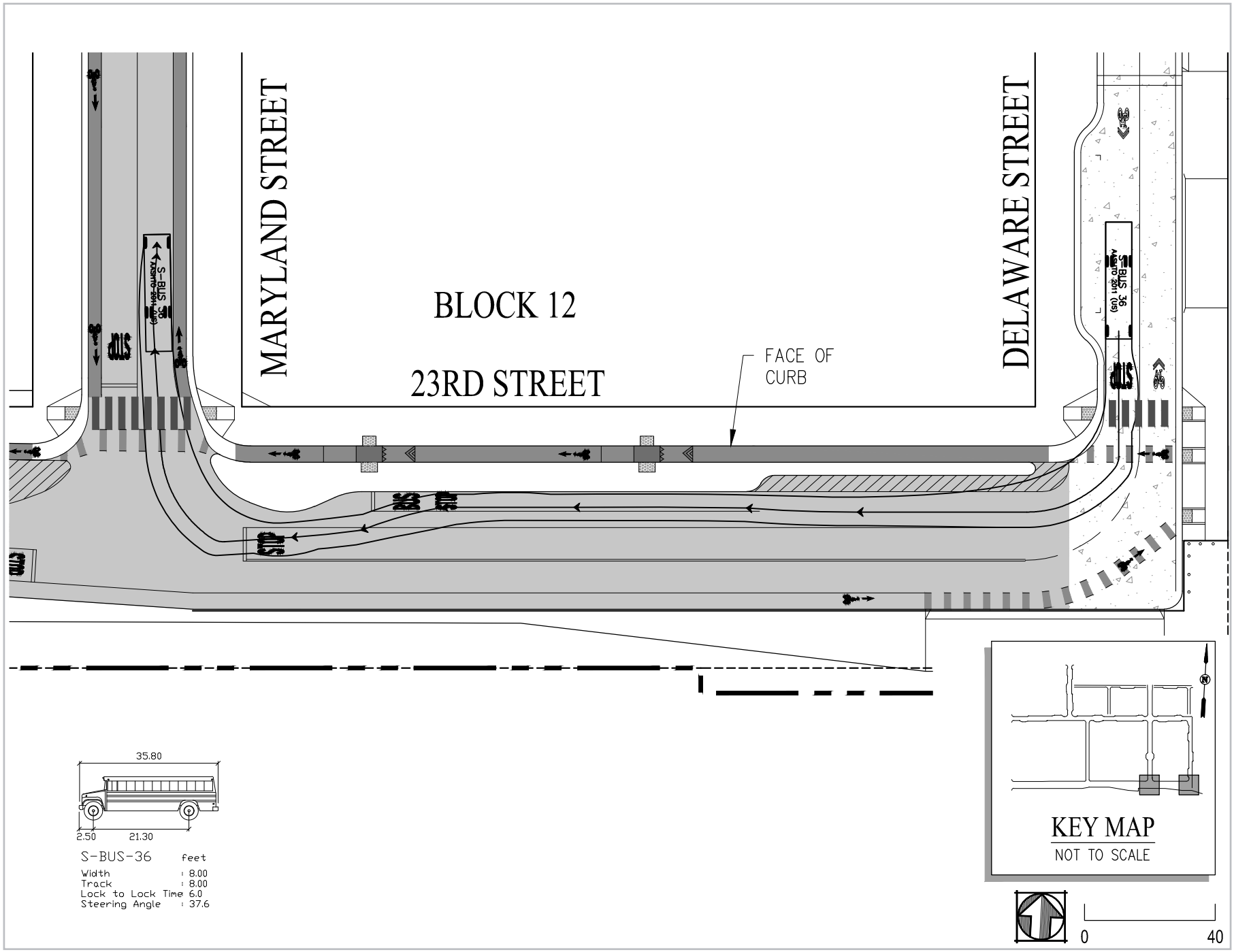
Appendix F Bus Route Turning Movements – BUS 45



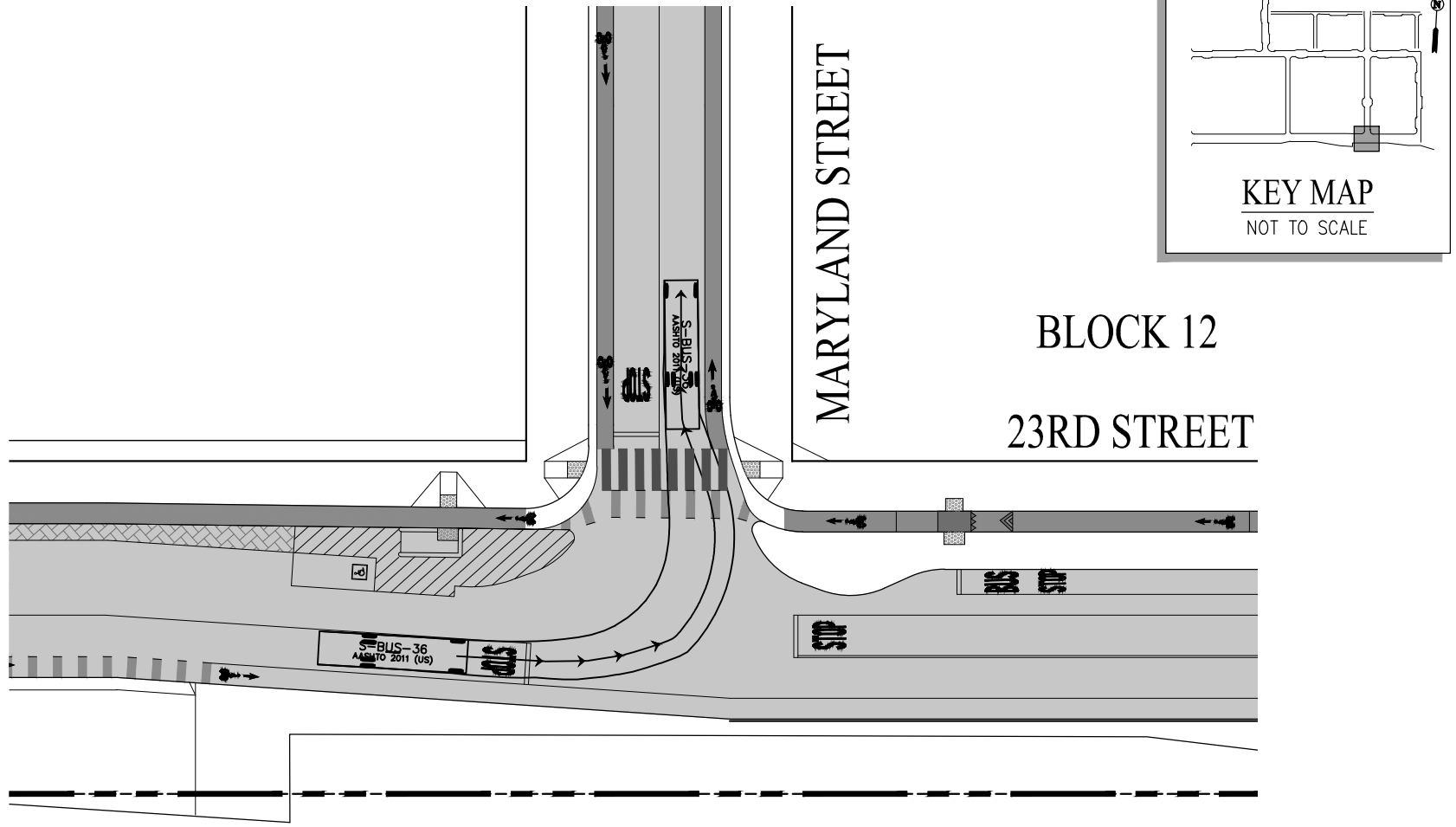
Appendix F Bus Route Turning Movements – BUS 45

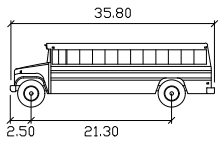


Appendix F Bus Route Turning Movements – SHUTTLE BUS 36



Appendix F Bus Route Turning Movements – SHUTTLE BUS 36

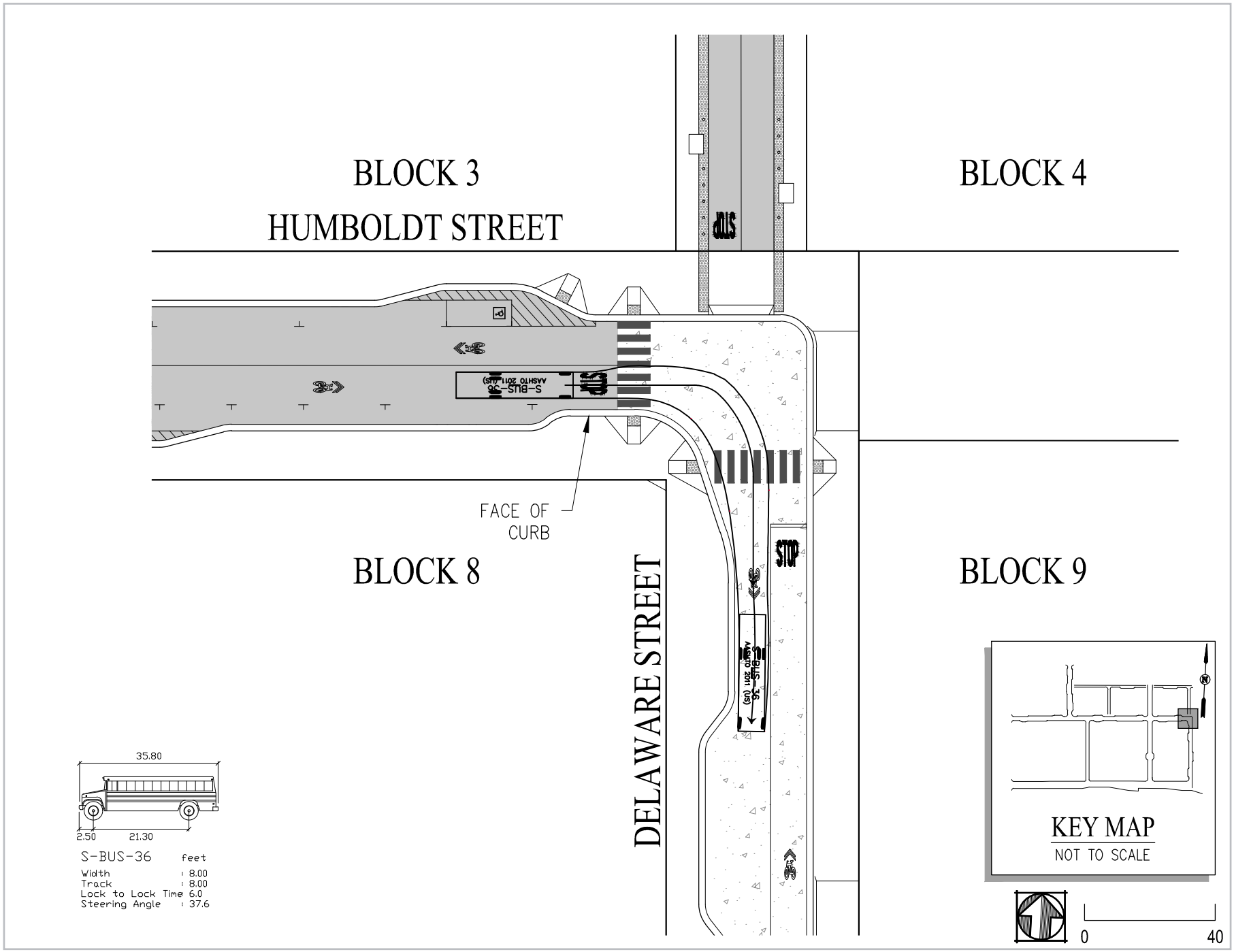




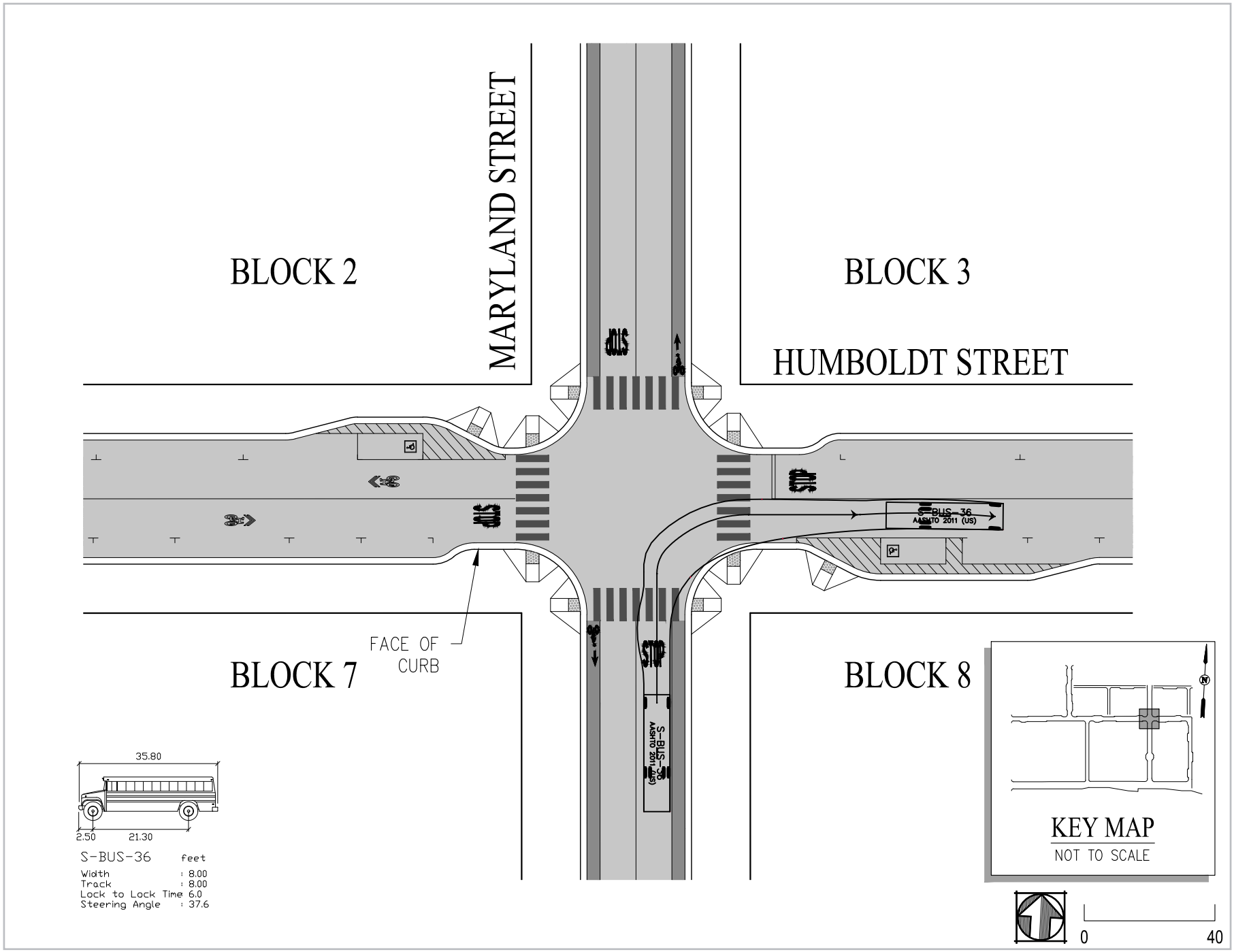
S-BUS-36 feet

Width	: 8.00
Track	: 8.00
Lock to Lock Time	6.0
Steering Angle	: 37.6

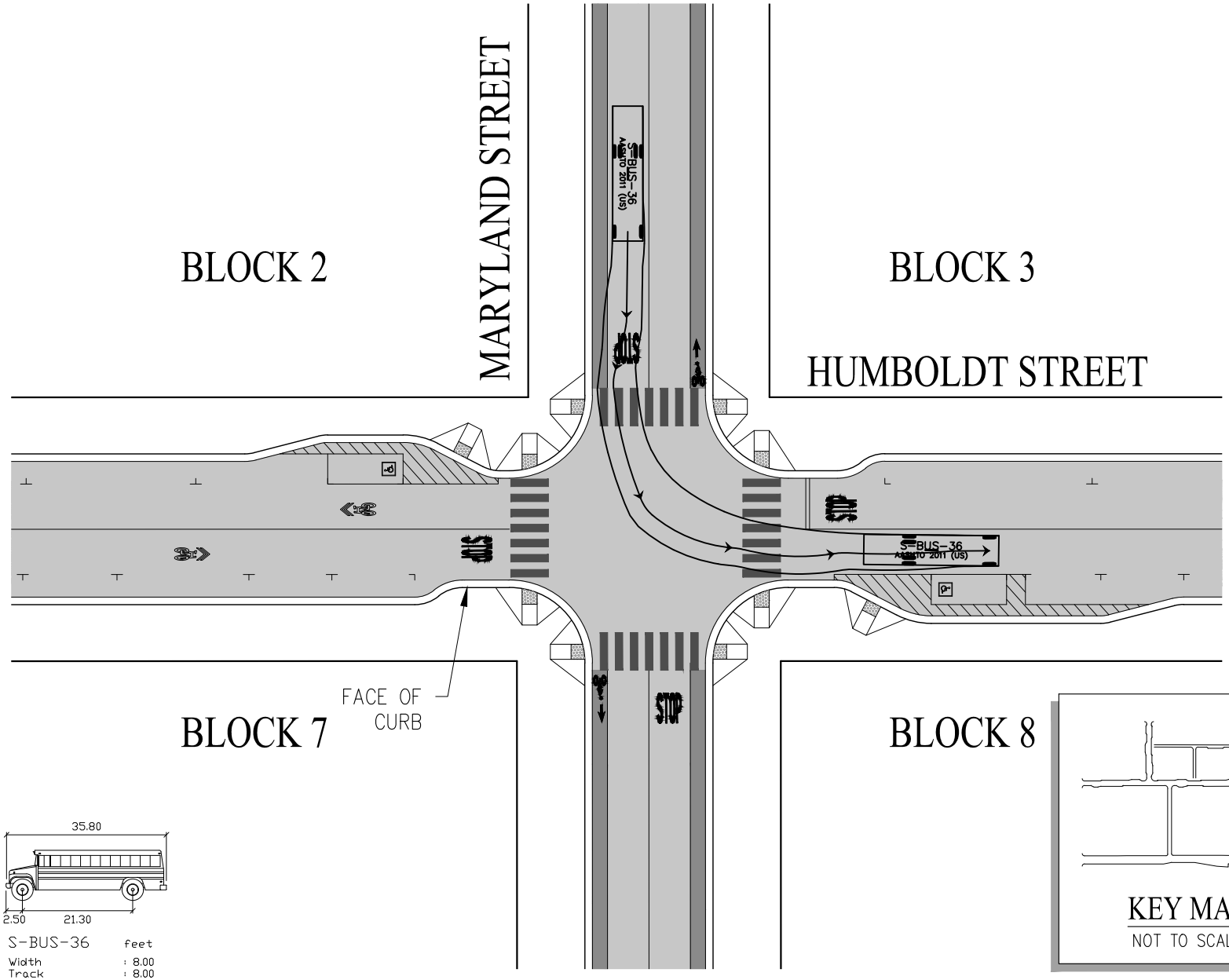
Appendix F Bus Route Turning Movements – SHUTTLE BUS 36



Appendix F Bus Route Turning Movements – SHUTTLE BUS 36

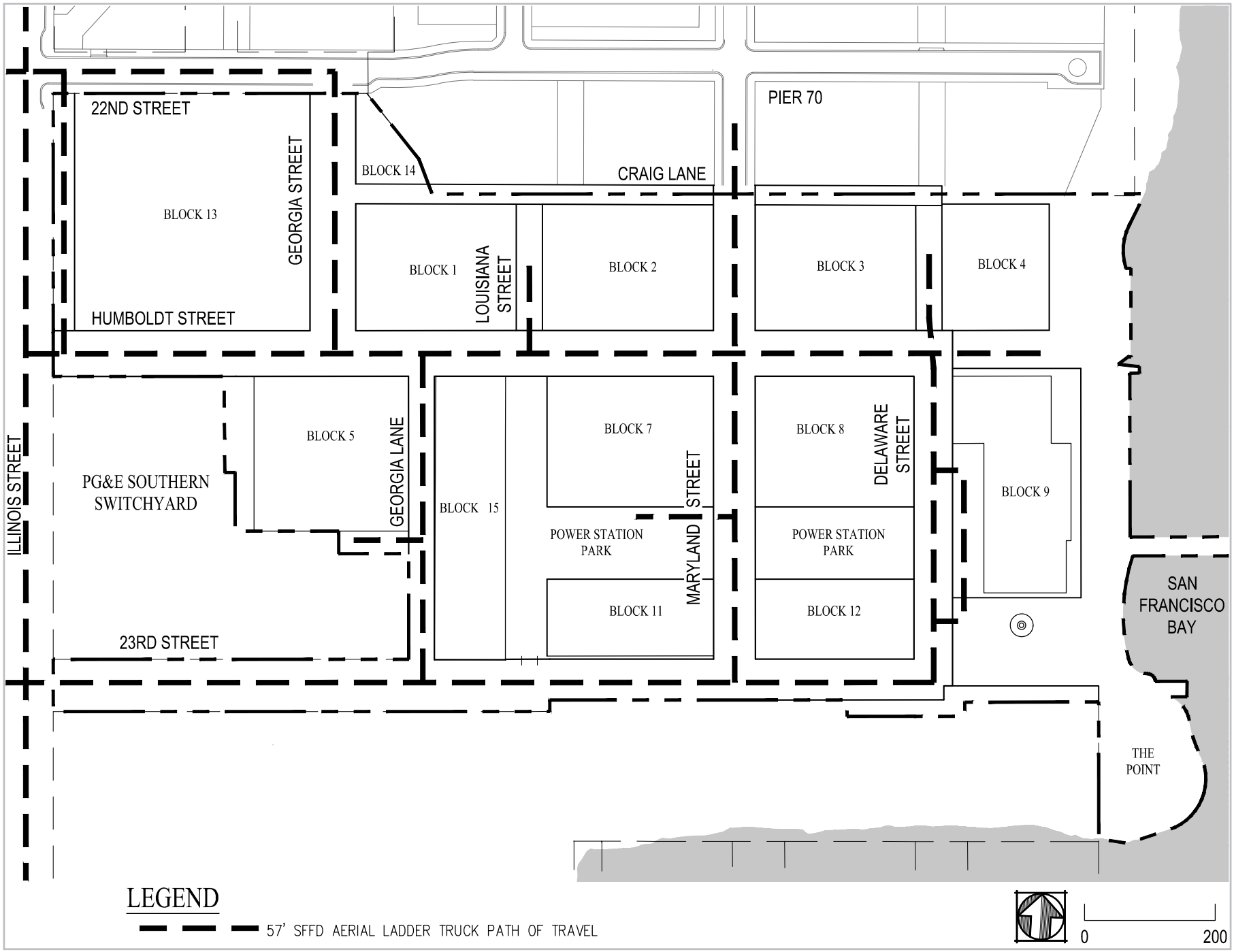


Appendix F Bus Route Turning Movements – SHUTTLE BUS 36

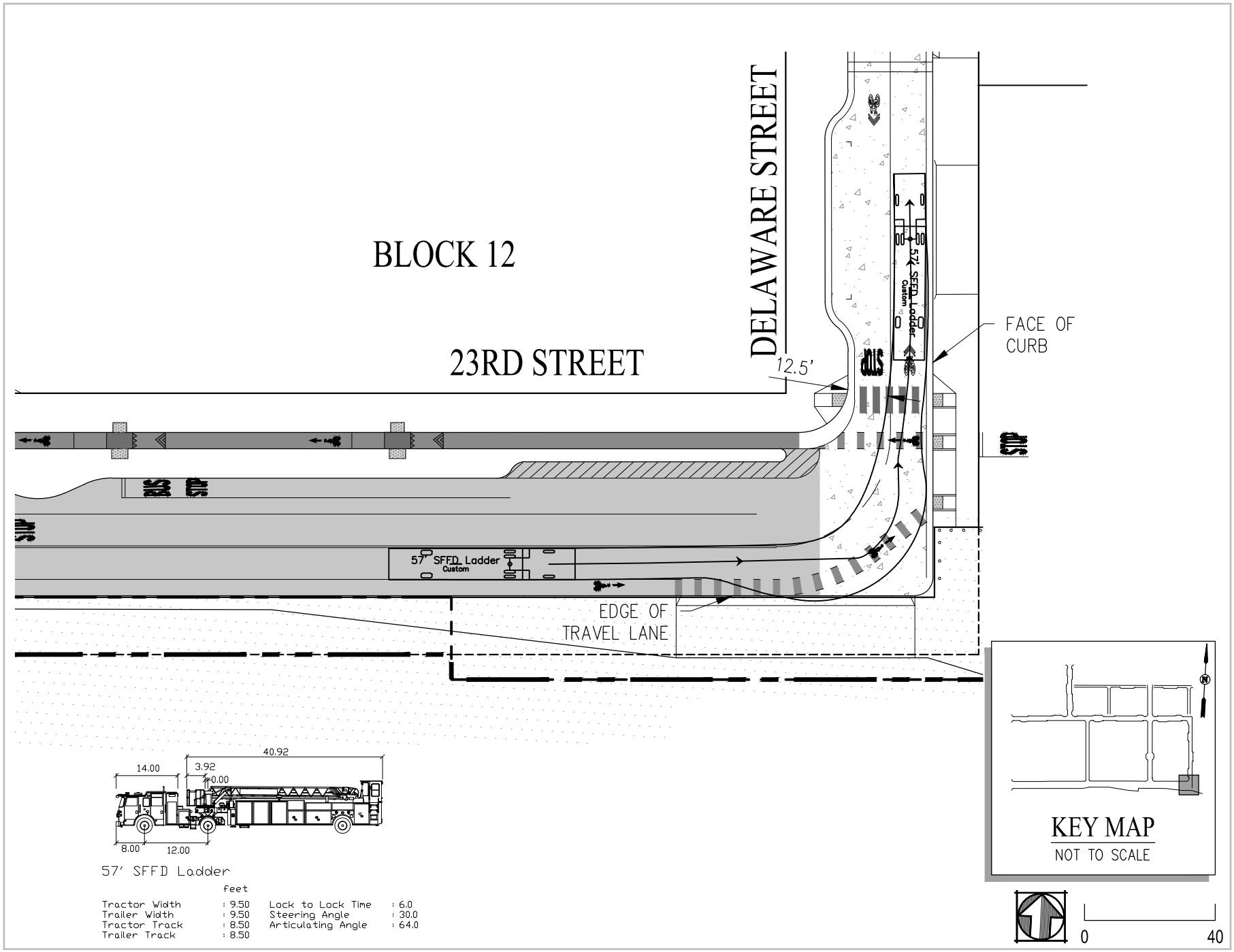


Appendix F Bus Route Turning Movements – SHUTTLE BUS 36

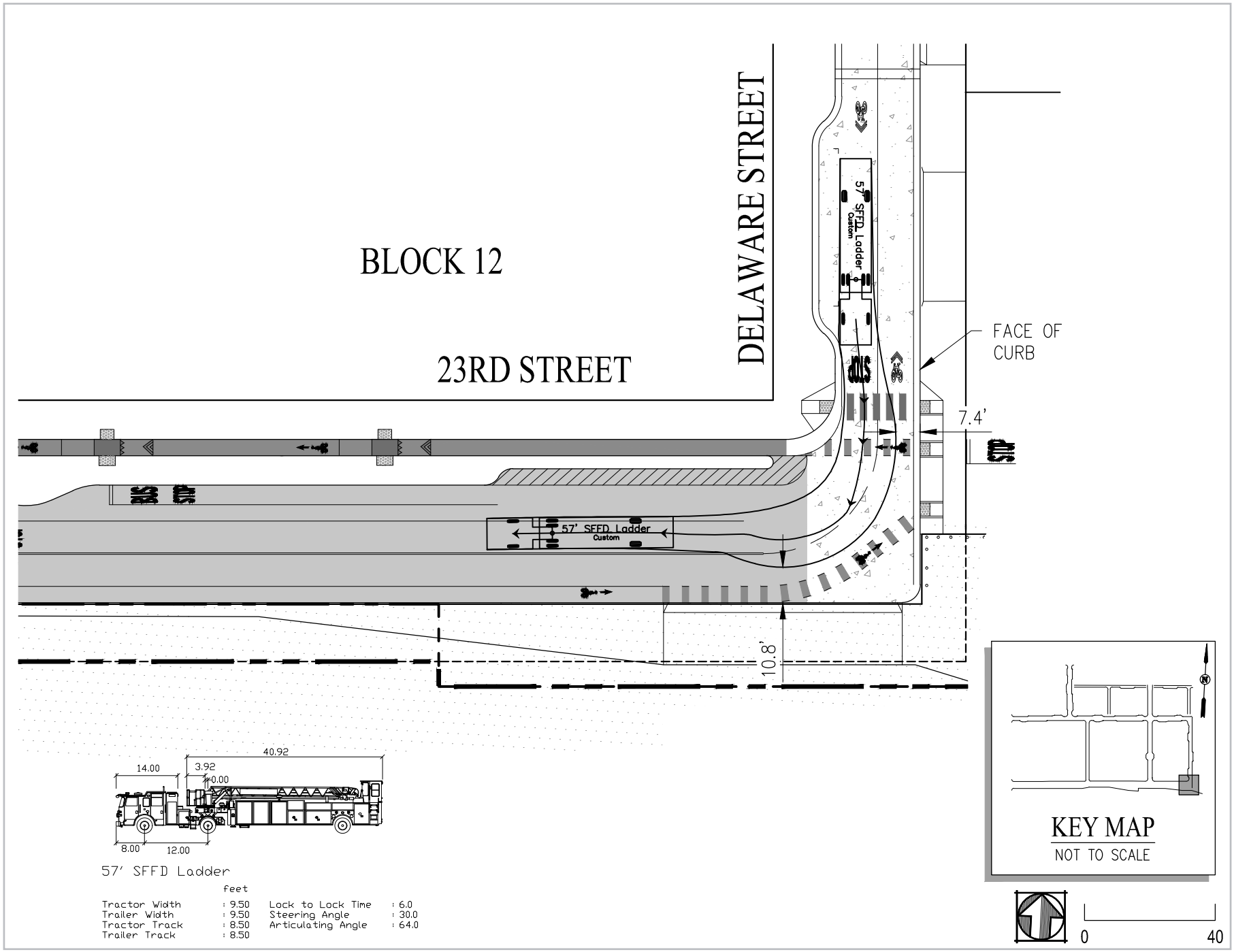
Appendix G
Fire Truck Turning Movements



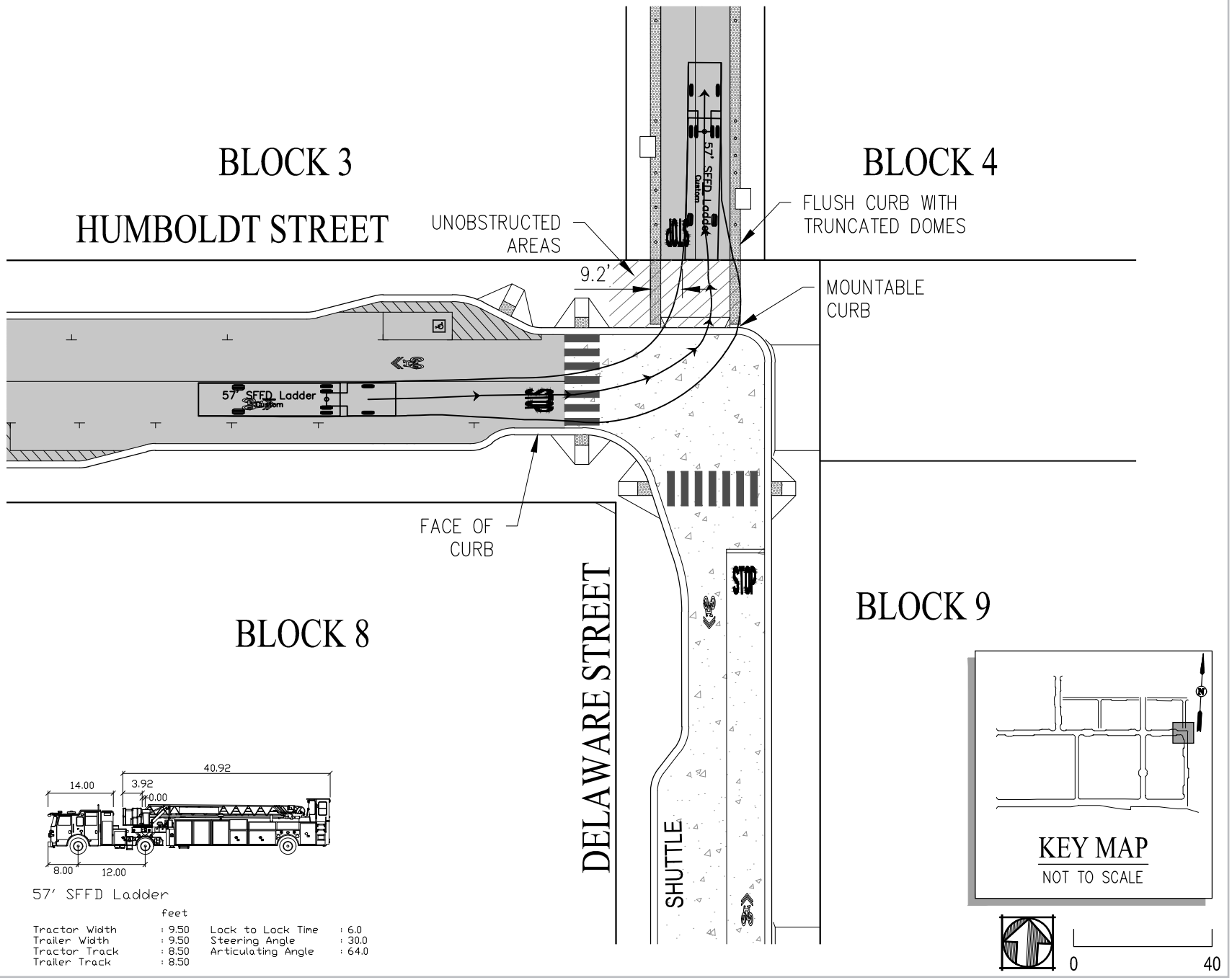
Appendix G Fire Truck Turning Movements - Aerial Fire

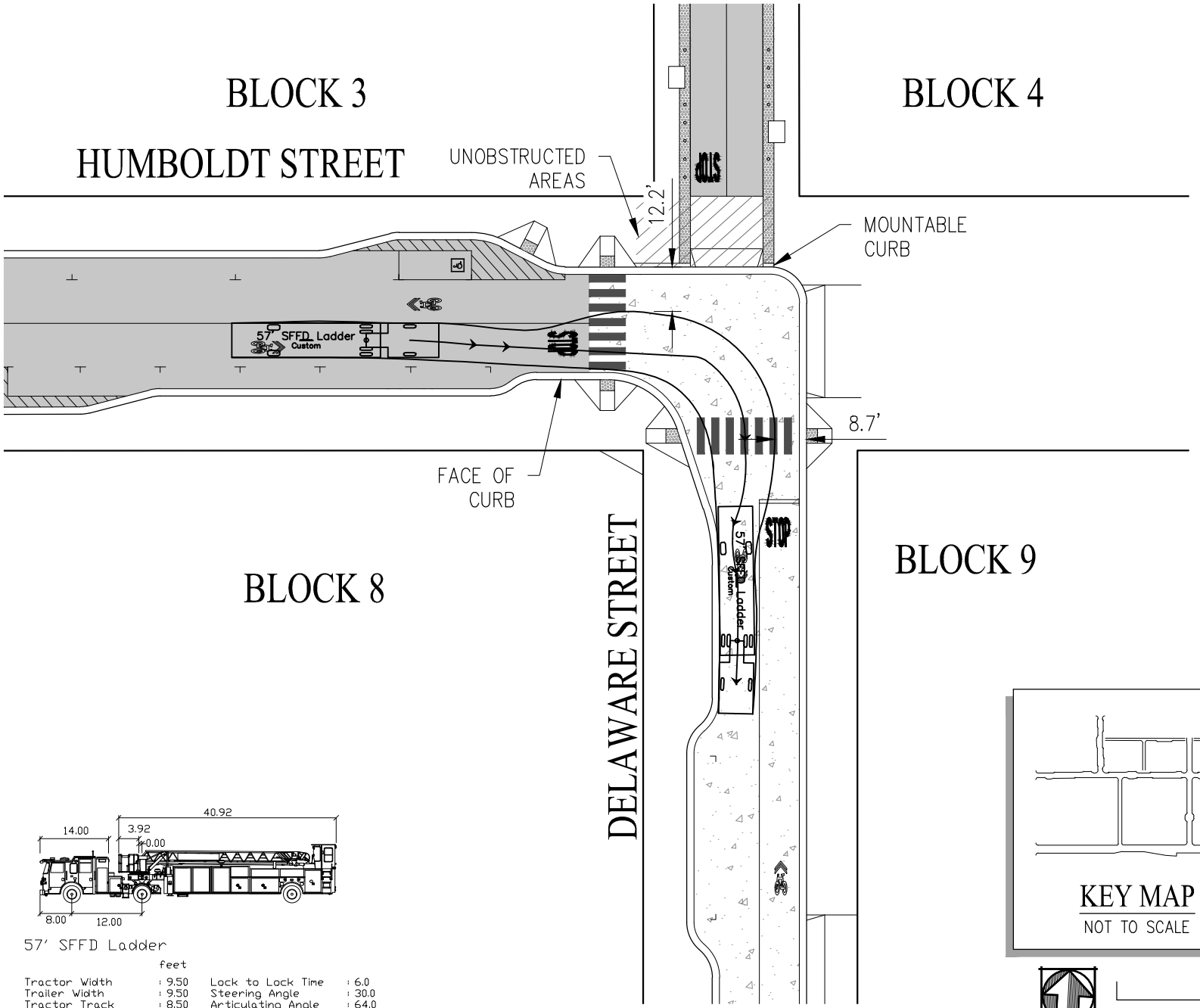


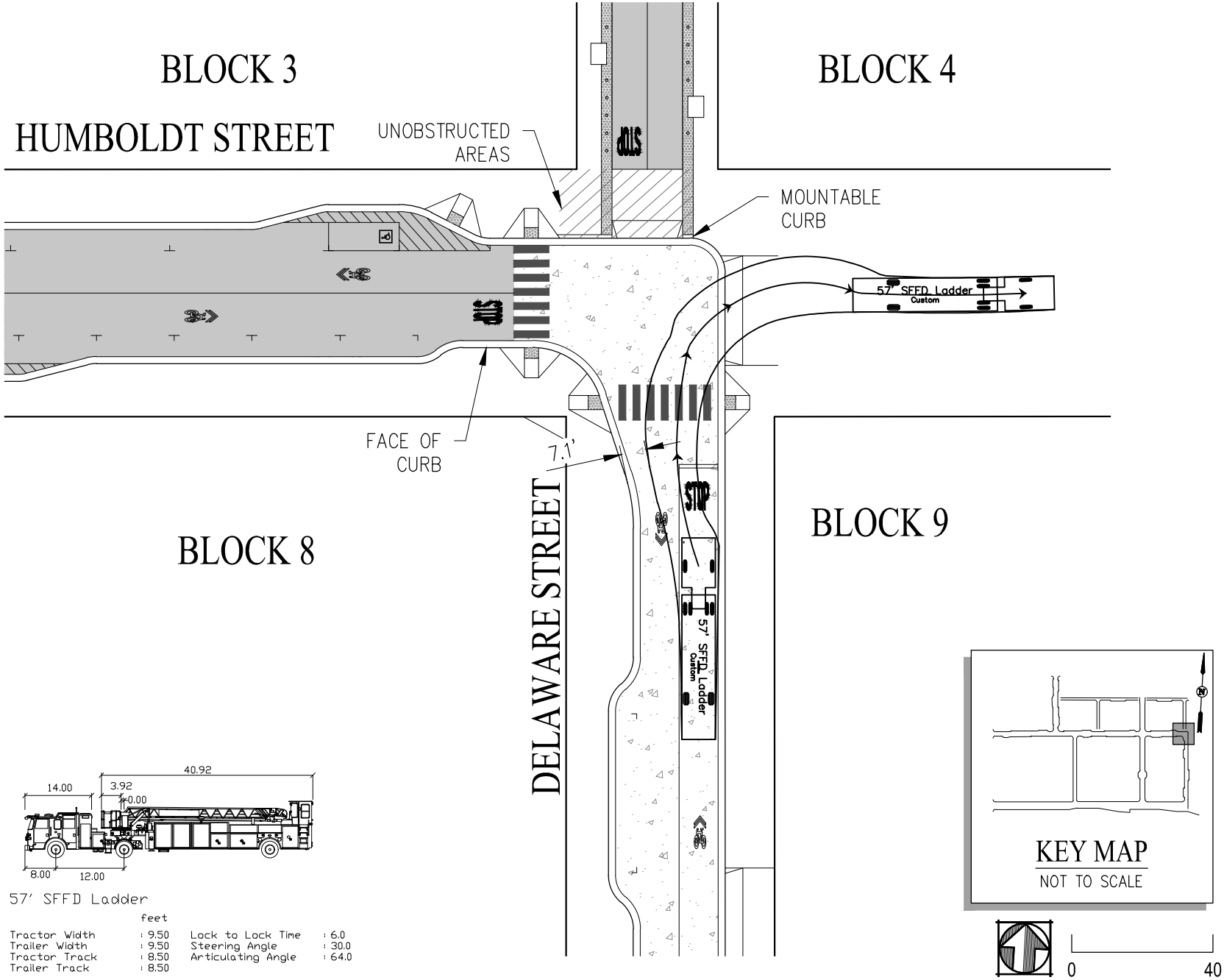
Appendix G Fire Truck Turning Movements

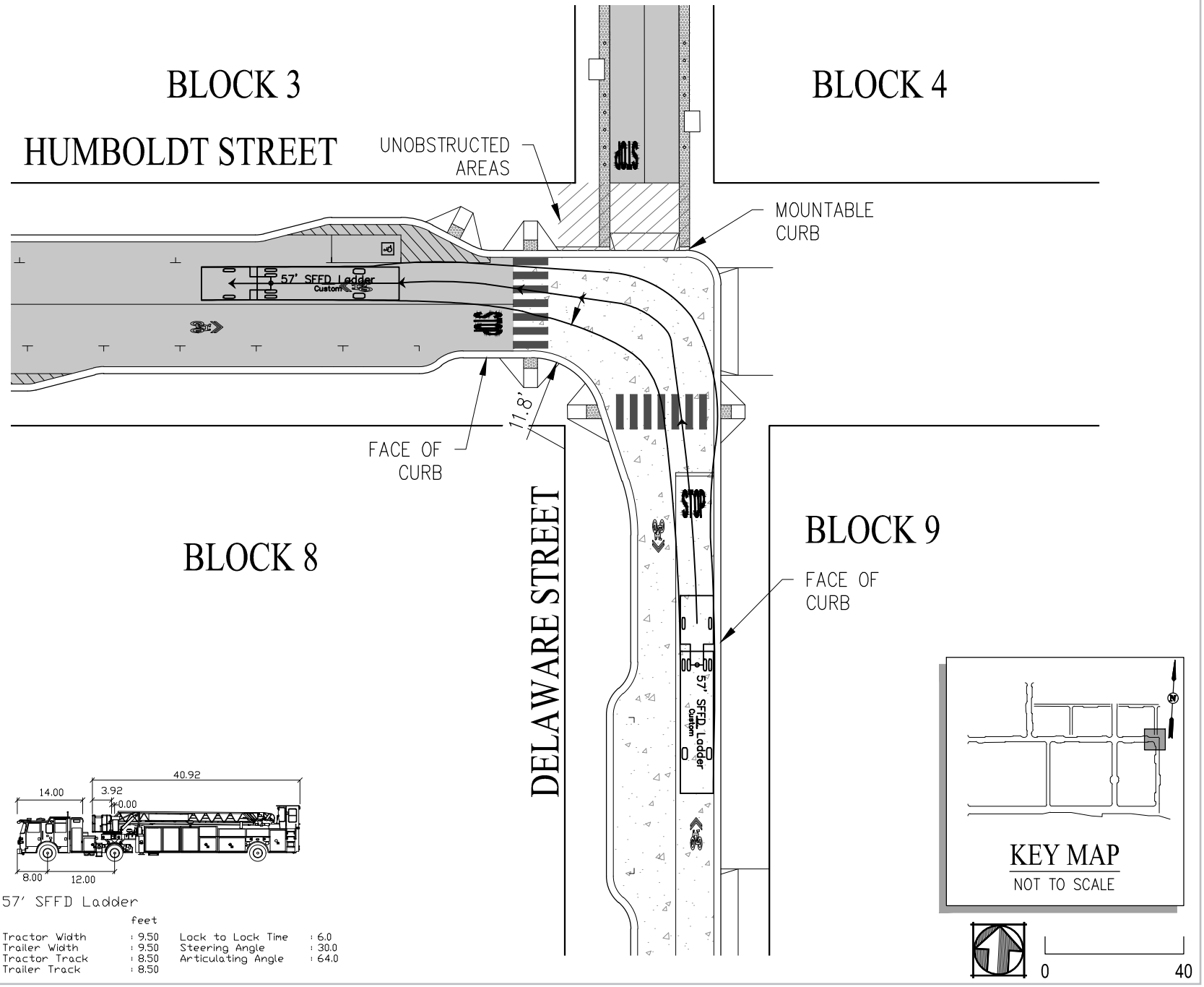


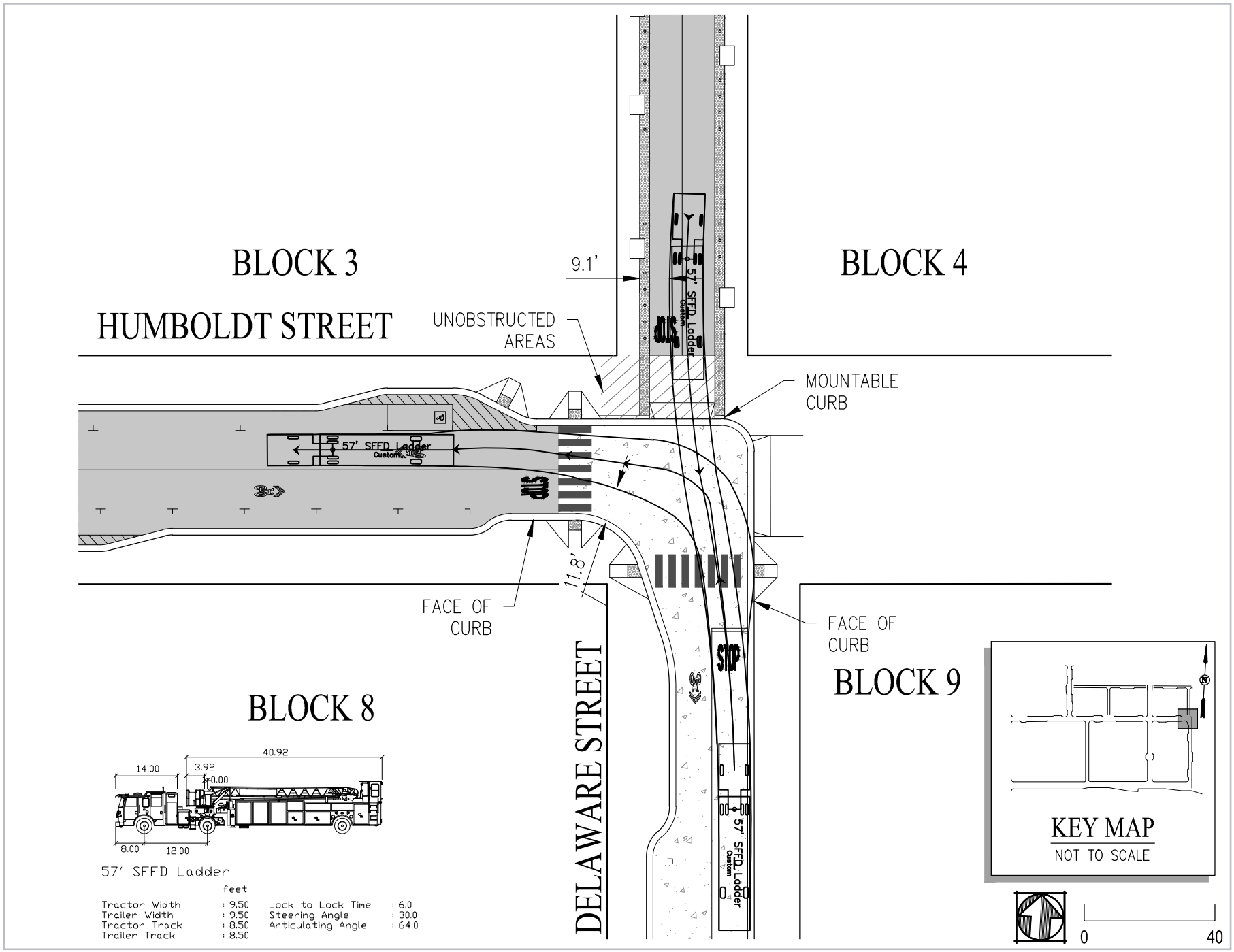
Appendix G Fire Truck Turning Movements

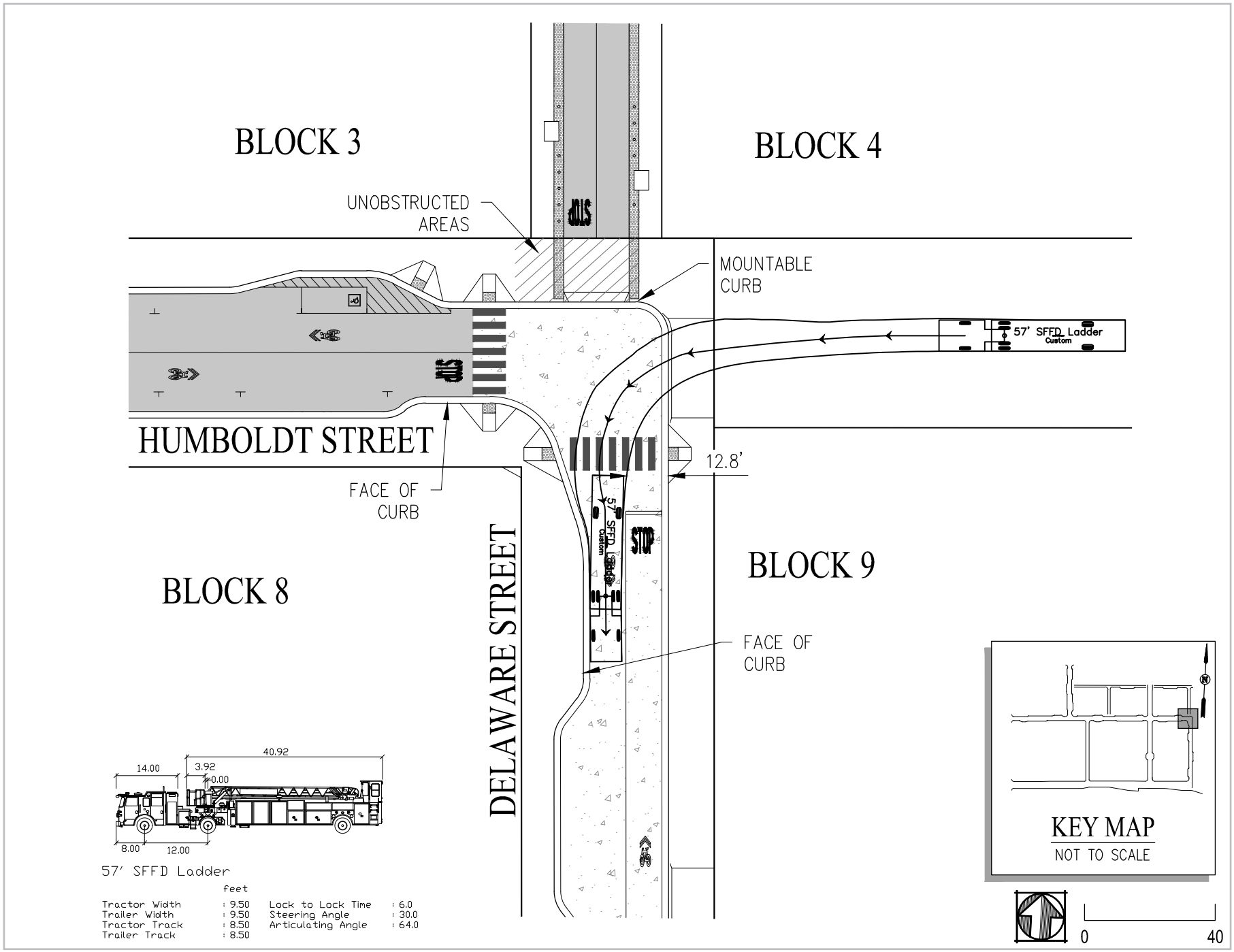

BLOCK 3
HUMBOLDT STREET
BLOCK 4
UNOBSTRUCTED AREAS
FLUSH CURB WITH TRUNCATED DOMES
9.2'
MOUNTABLE CURB
57' SFFD Ladder
FACE OF CURB
BLOCK 8
DELAWARE STREET
SHUTTLE
STOP
BLOCK 9
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

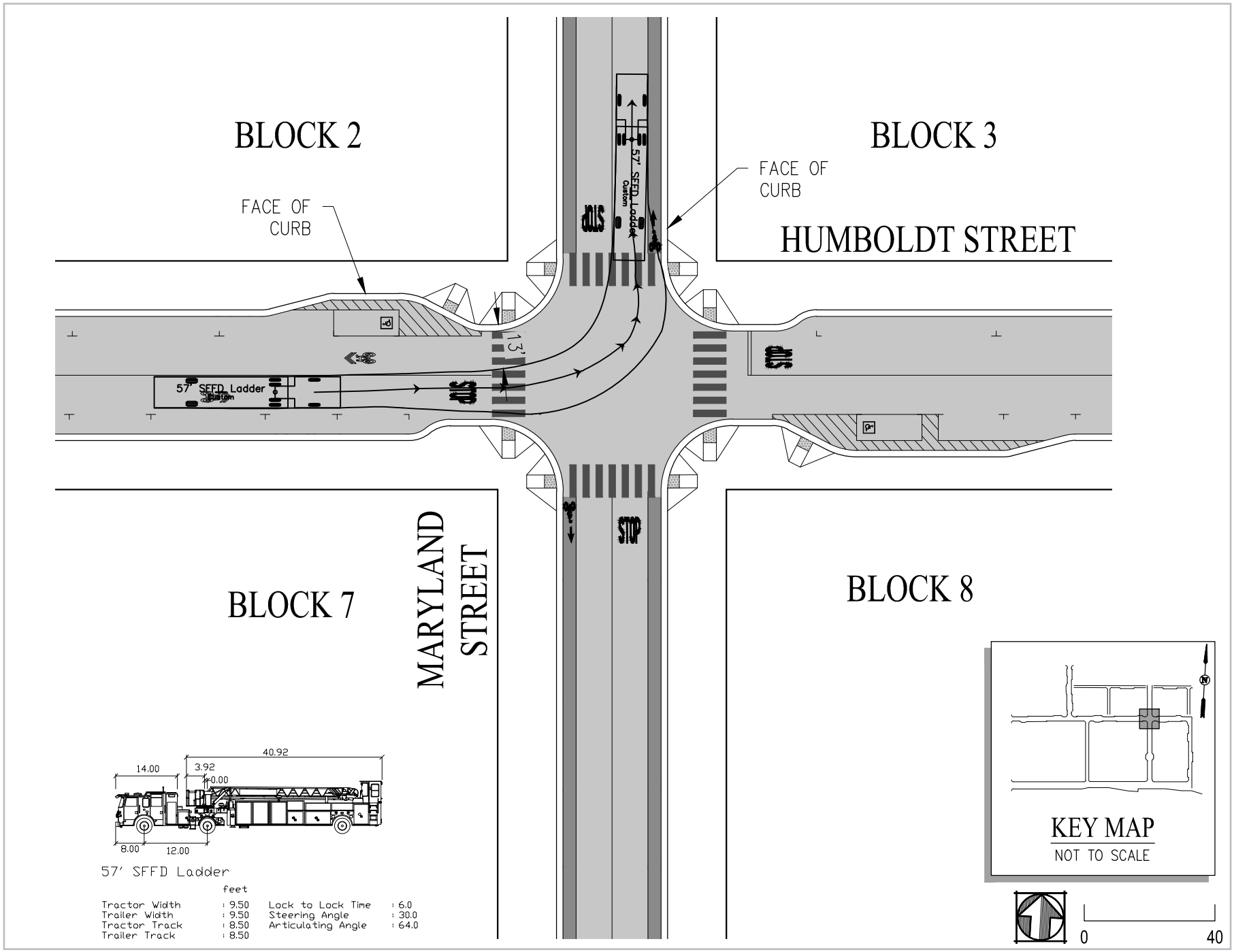

BLOCK 3
HUMBOLDT STREET
BLOCK 4
UNOBSTRUCTED AREAS
12.2'
MOUNTABLE CURB
57' SFFD Ladder
Custom
8.7'
FACE OF CURB
BLOCK 8
DELAWARE STREET
BLOCK 9
STOP
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

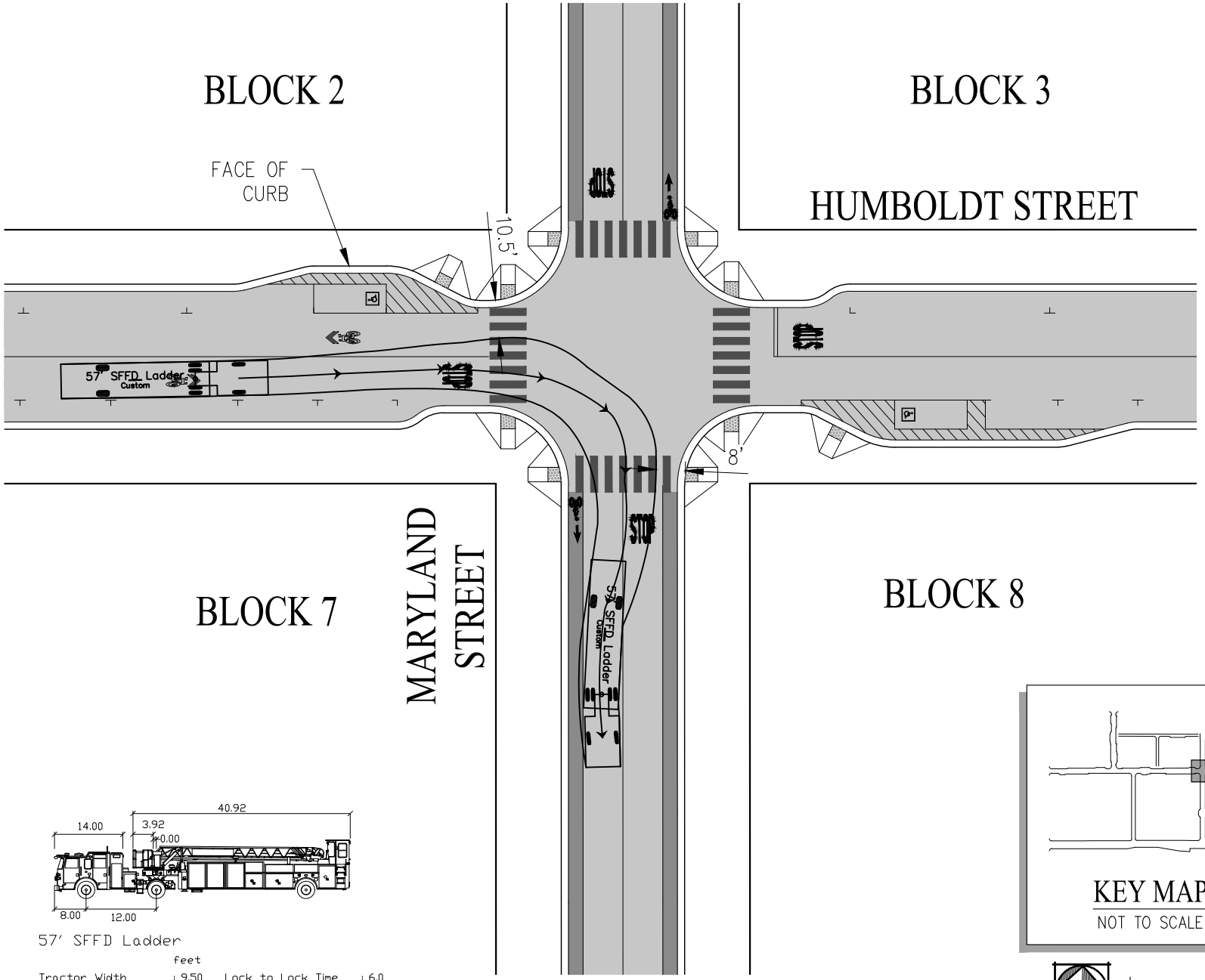

BLOCK 3
BLOCK 4
HUMBOLDT STREET
UNOBSTRUCTED AREAS
MOUNTABLE CURB
57' SFFD Ladder Custom
FACE OF CURB
7.1'
BLOCK 8
DELAWARE STREET
BLOCK 9
57' SFFD Ladder Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

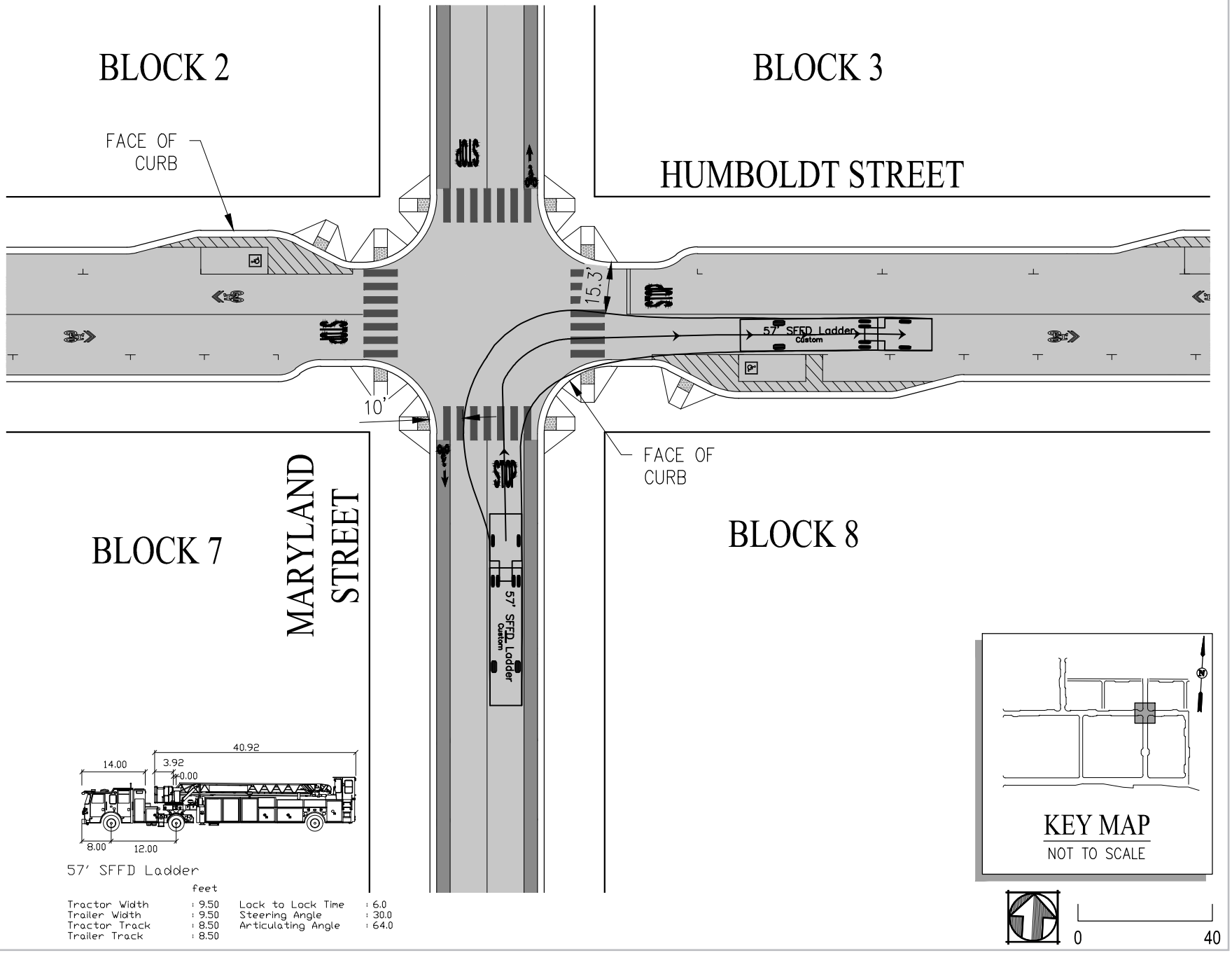

BLOCK 3
HUMBOLDT STREET
UNOBSTRUCTED AREAS
BLOCK 4
MOUNTABLE CURB
57' SFFD Ladder
Custom
11.8'
FACE OF CURB
BLOCK 8
DELAWARE STREET
BLOCK 9
FACE OF CURB
57' SFFD Ladder
Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

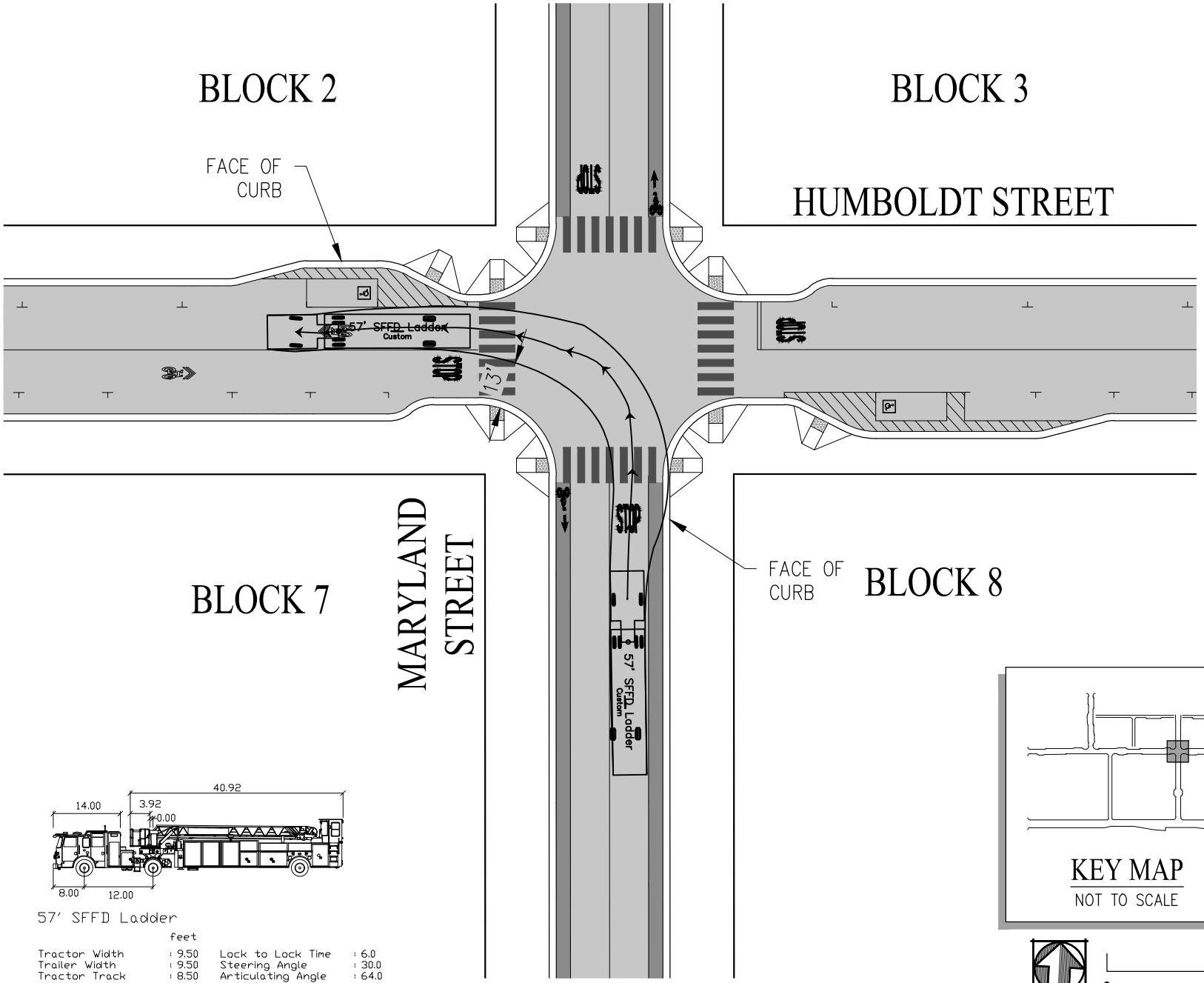

BLOCK 3
HUMBOLDT STREET
9.1'
UNOBSTRUCTED AREAS
BLOCK 4
MOUNTABLE CURB
57' SFFD Ladder
Custom
11.8'
FACE OF CURB
FACE OF CURB
BLOCK 8
DELAWARE STREET
BLOCK 9
STOP
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

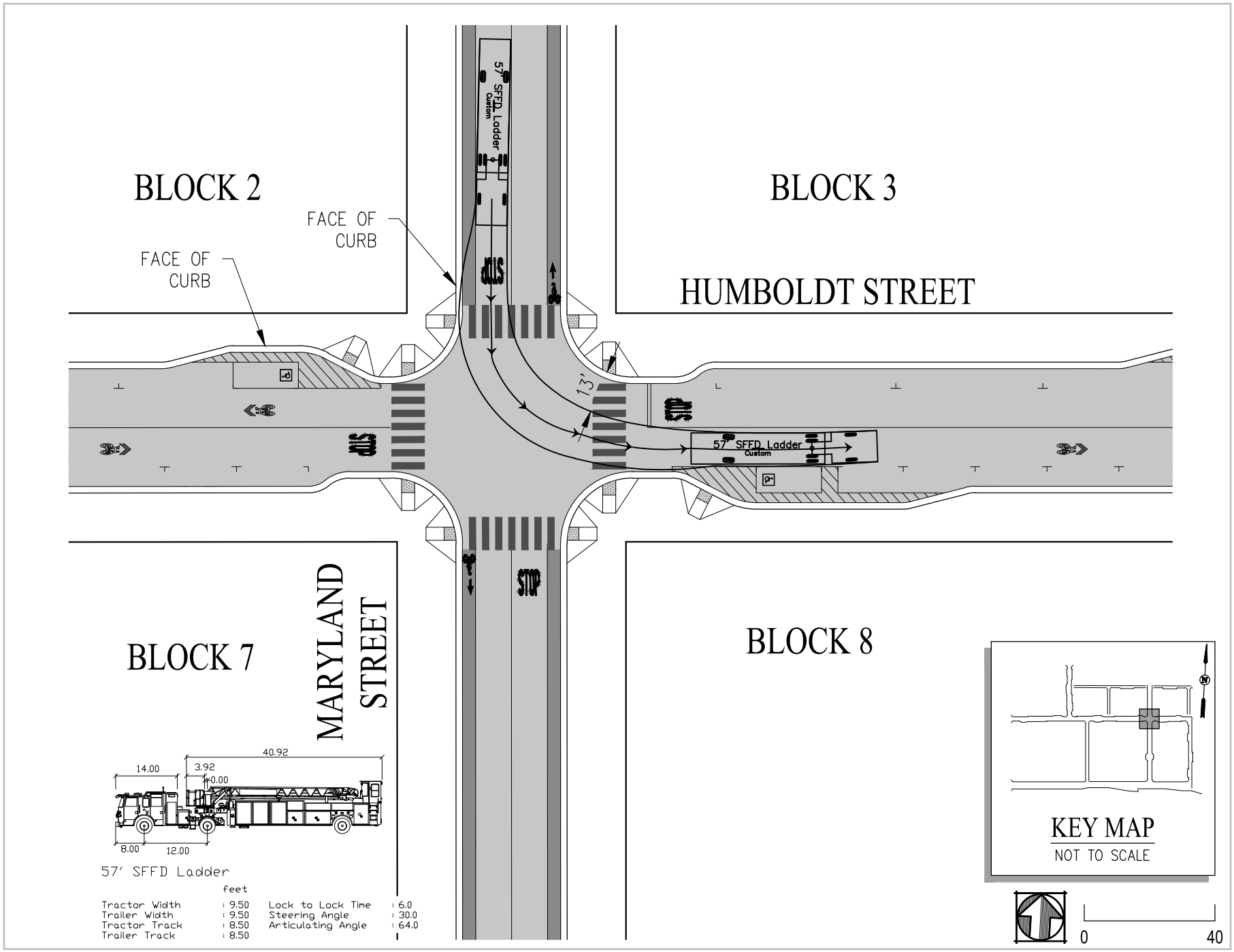

BLOCK 3
BLOCK 4
UNOBSTRUCTED AREAS
MOUNTABLE CURB
57' SFFD Ladder
Custom
HUMBOLDT STREET
FACE OF CURB
12.8'
57' SFFD Ladder
Custom
STOP
BLOCK 8
DELAWARE STREET
BLOCK 9
FACE OF CURB
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

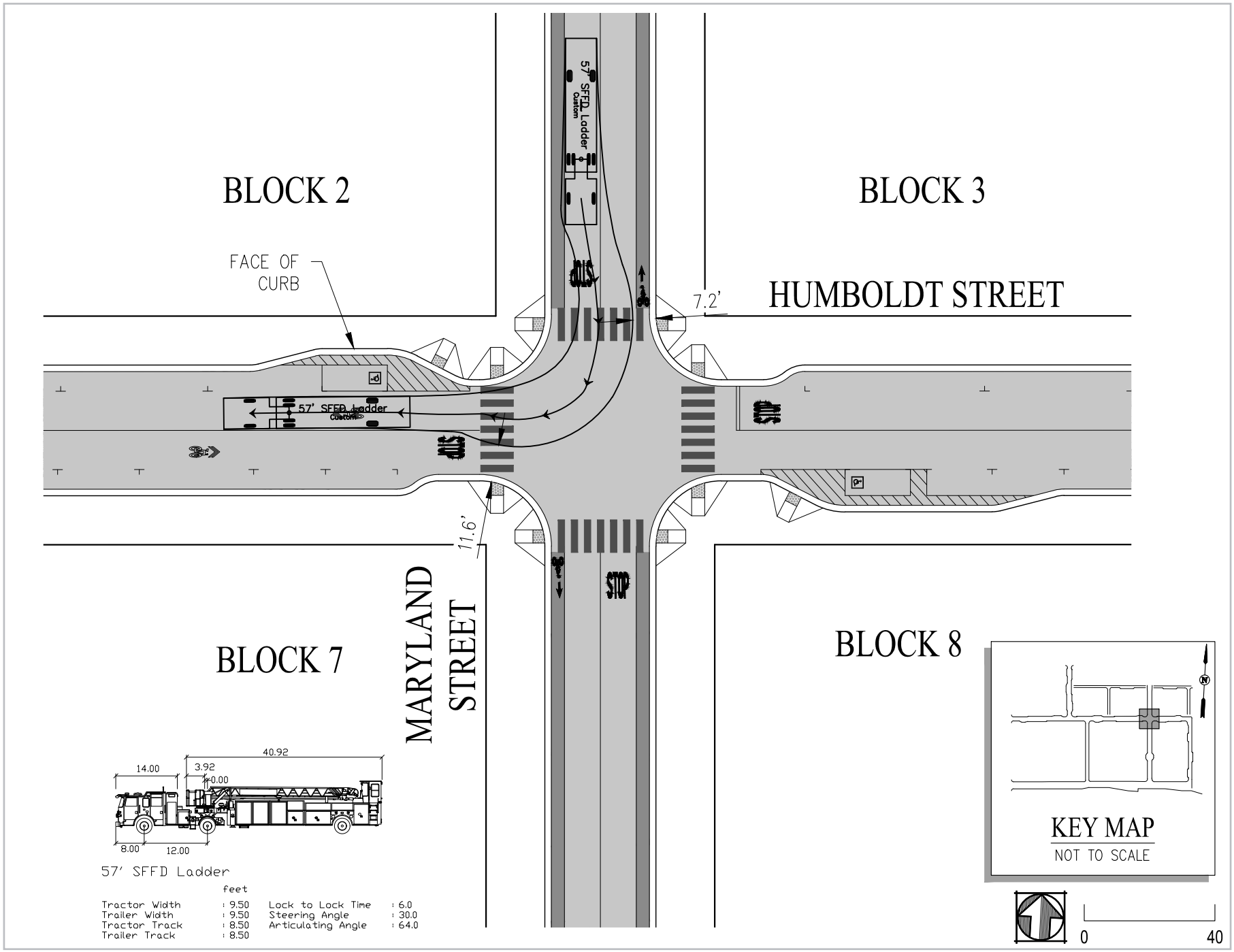

BLOCK 2
BLOCK 3
FACE OF CURB
FACE OF CURB
HUMBOLDT STREET
57' SFFD Ladder
Custom
57' SFFD Ladder
13'
STOP
STOP
STOP
BLOCK 7
MARYLAND STREET
BLOCK 8
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

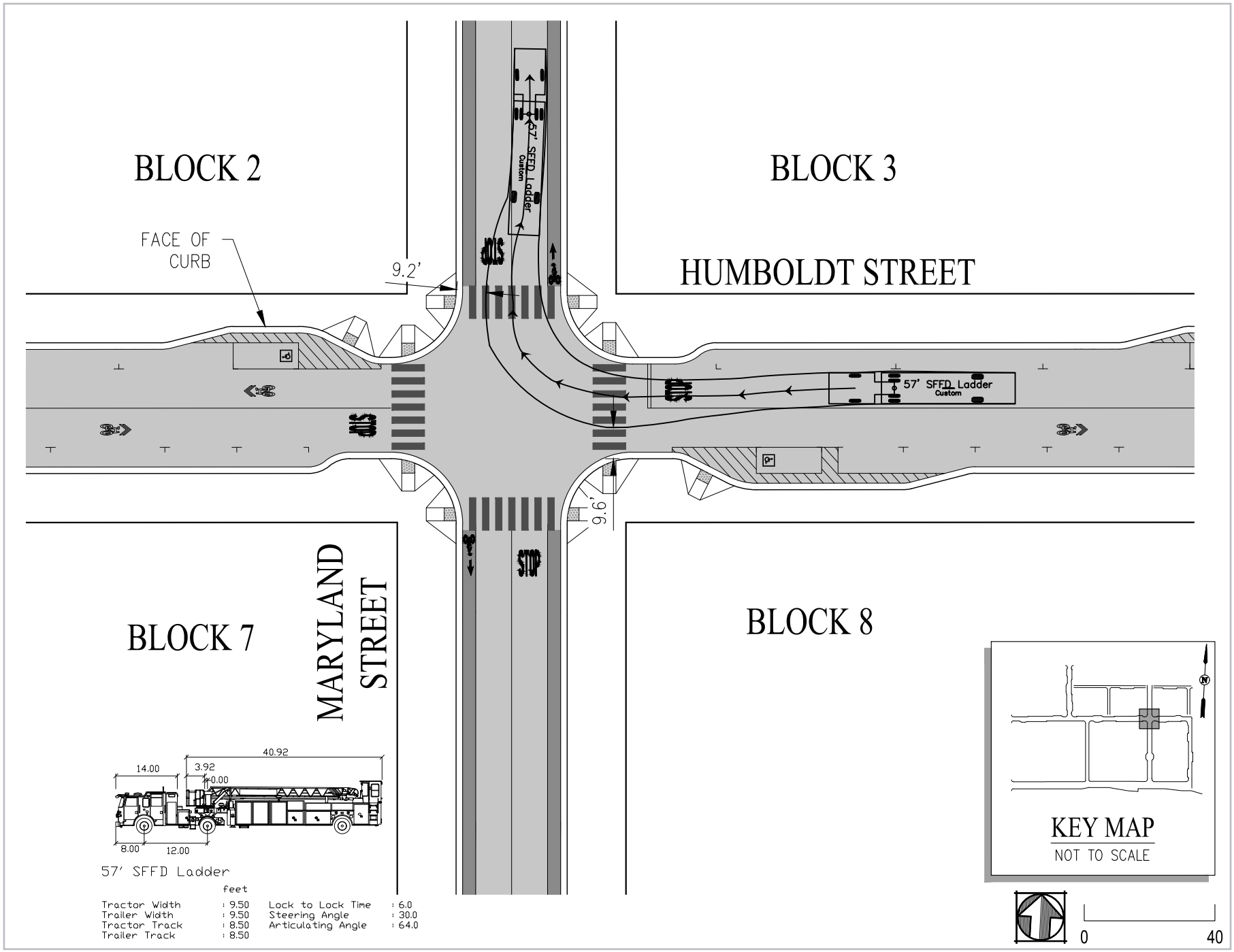

BLOCK 2
BLOCK 3
FACE OF CURB
HUMBOLDT STREET
10.5'
57' SFFD Ladder
Custom
8'
BLOCK 7
MARYLAND STREET
BLOCK 8
STOP
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

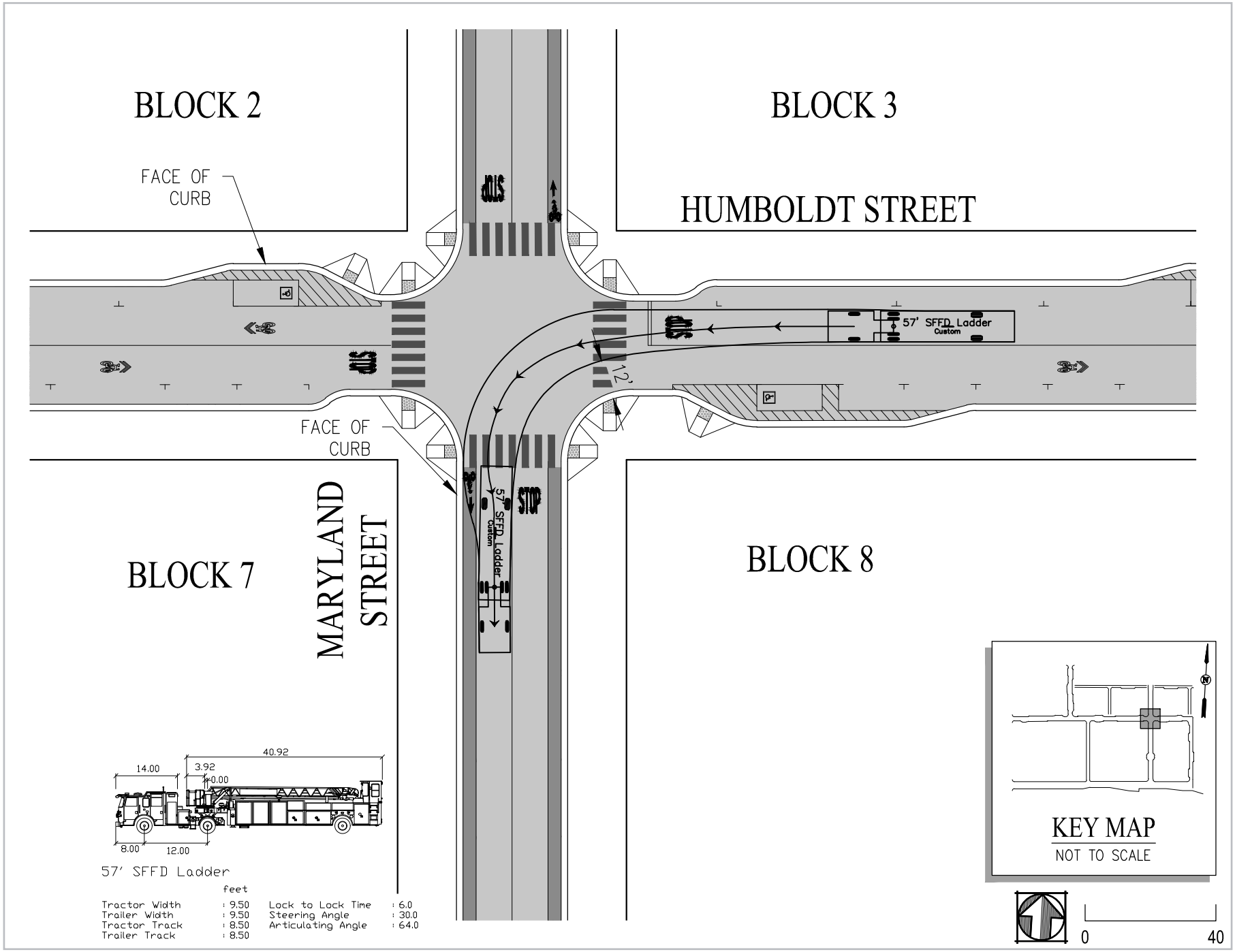

BLOCK 2
BLOCK 3
FACE OF CURB
HUMBOLDT STREET
15.3'
57' SFFD Ladder Custom
10'
FACE OF CURB
BLOCK 7
MARYLAND STREET
BLOCK 8
57' SFFD Ladder Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

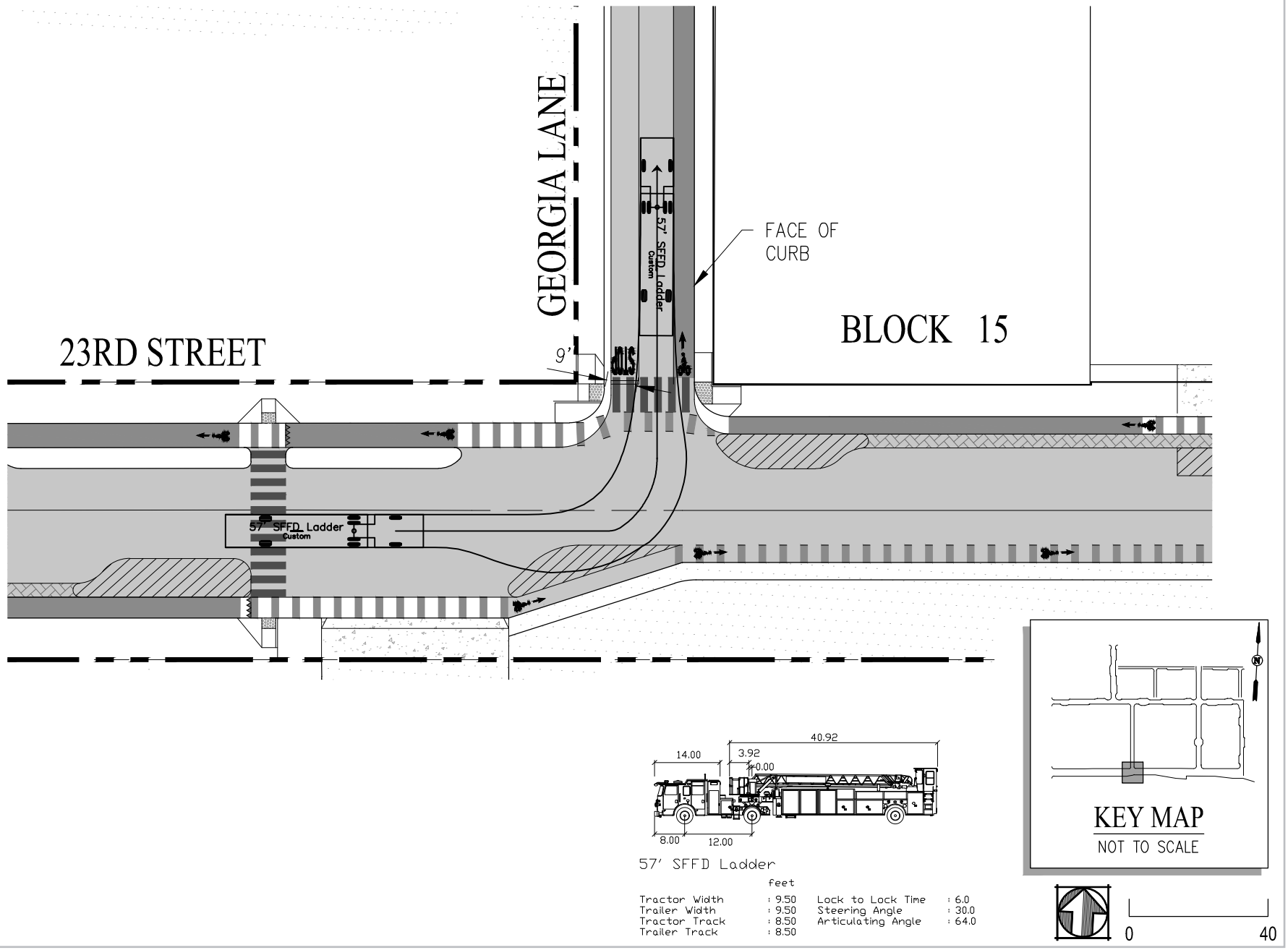

BLOCK 2
BLOCK 3
FACE OF CURB
HUMBOLDT STREET
57' SFFD Ladder Custom
13'
STOP
MARYLAND STREET
BLOCK 7
FACE OF CURB
BLOCK 8
57' SFFD Ladder Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

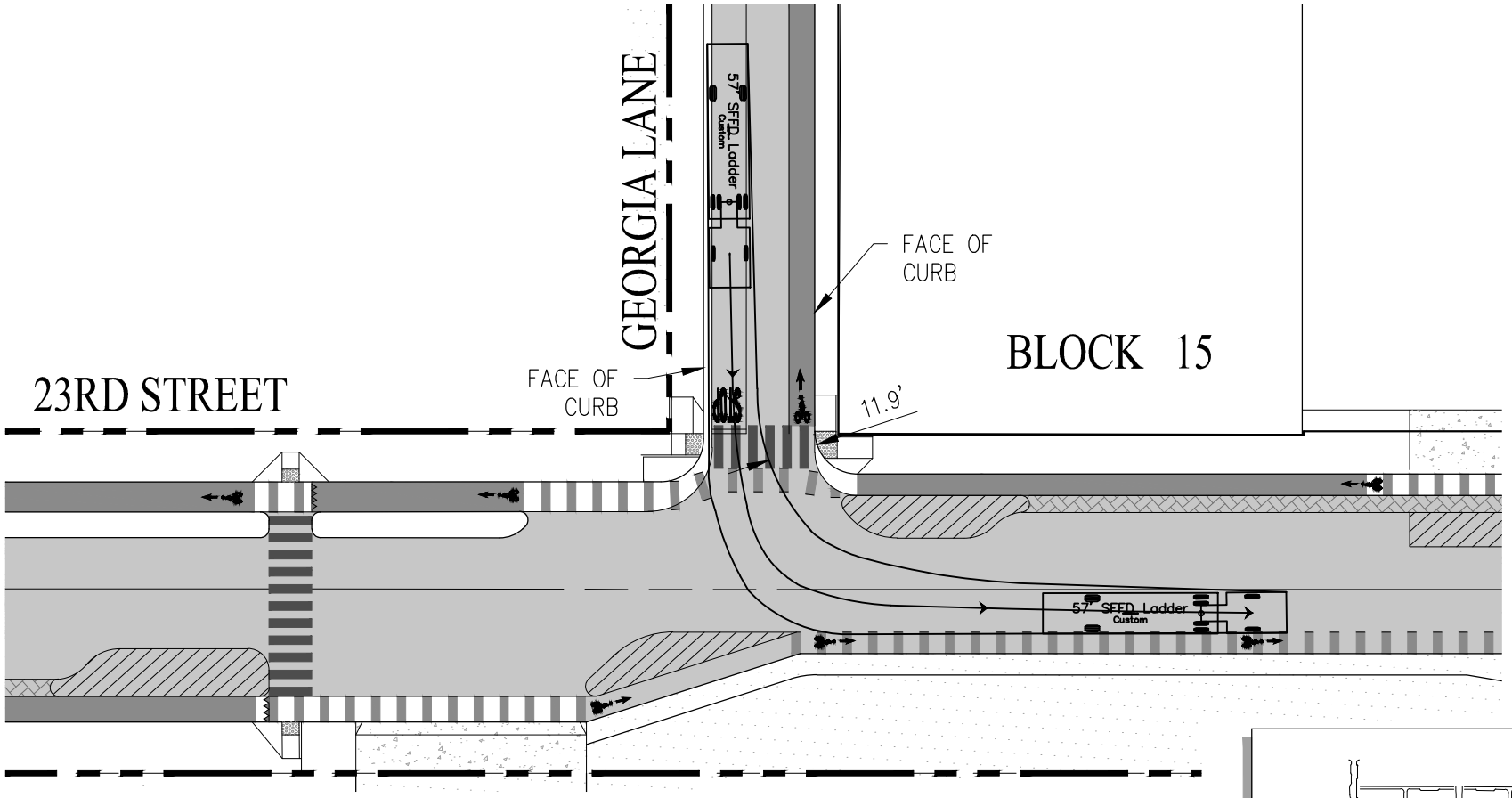

BLOCK 2
BLOCK 3
FACE OF CURB
FACE OF CURB
HUMBOLDT STREET
57' SFFD Ladder Custom
57' SFFD Ladder Custom
13'
STOP
BLOCK 7
MARYLAND STREET
BLOCK 8
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

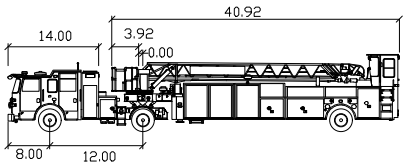

BLOCK 2
BLOCK 3
FACE OF CURB
HUMBOLDT STREET
7.2'
57' SFFD Ladder
Custom
57' SFFD Ladder
Custom
11.6'
MARYLAND STREET
BLOCK 7
BLOCK 8
STOP
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40


BLOCK 2
BLOCK 3
FACE OF CURB
9.2'
HUMBOLDT STREET
57' SFFD Ladder
Custom
57' SFFD Ladder
Custom
STOP
STOP
9.6'
BLOCK 7
MARYLAND STREET
BLOCK 8
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40


BLOCK 2
BLOCK 3
FACE OF CURB
HUMBOLDT STREET
STOP
57' SFFD Ladder
Custom
12'
FACE OF CURB
BLOCK 7
MARYLAND STREET
BLOCK 8
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40


GEORGIA LANE
23RD STREET
FACE OF CURB
BLOCK 15
57' SFFD Ladder
Custom
9'
57' SFFD Ladder
Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

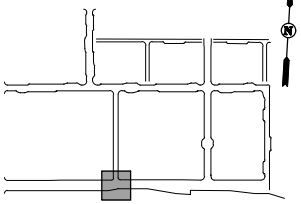




57' SFFD Ladder

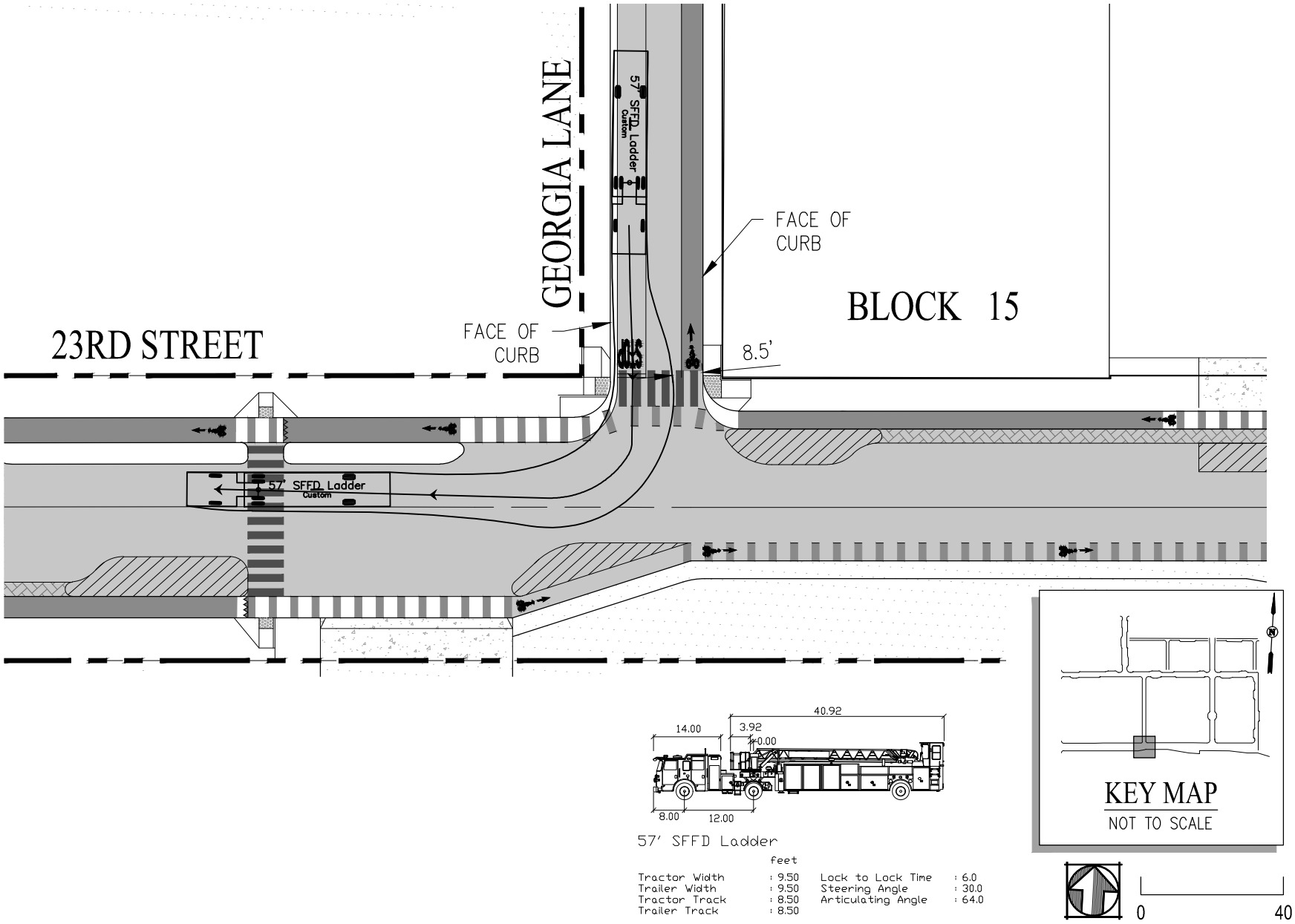
feet

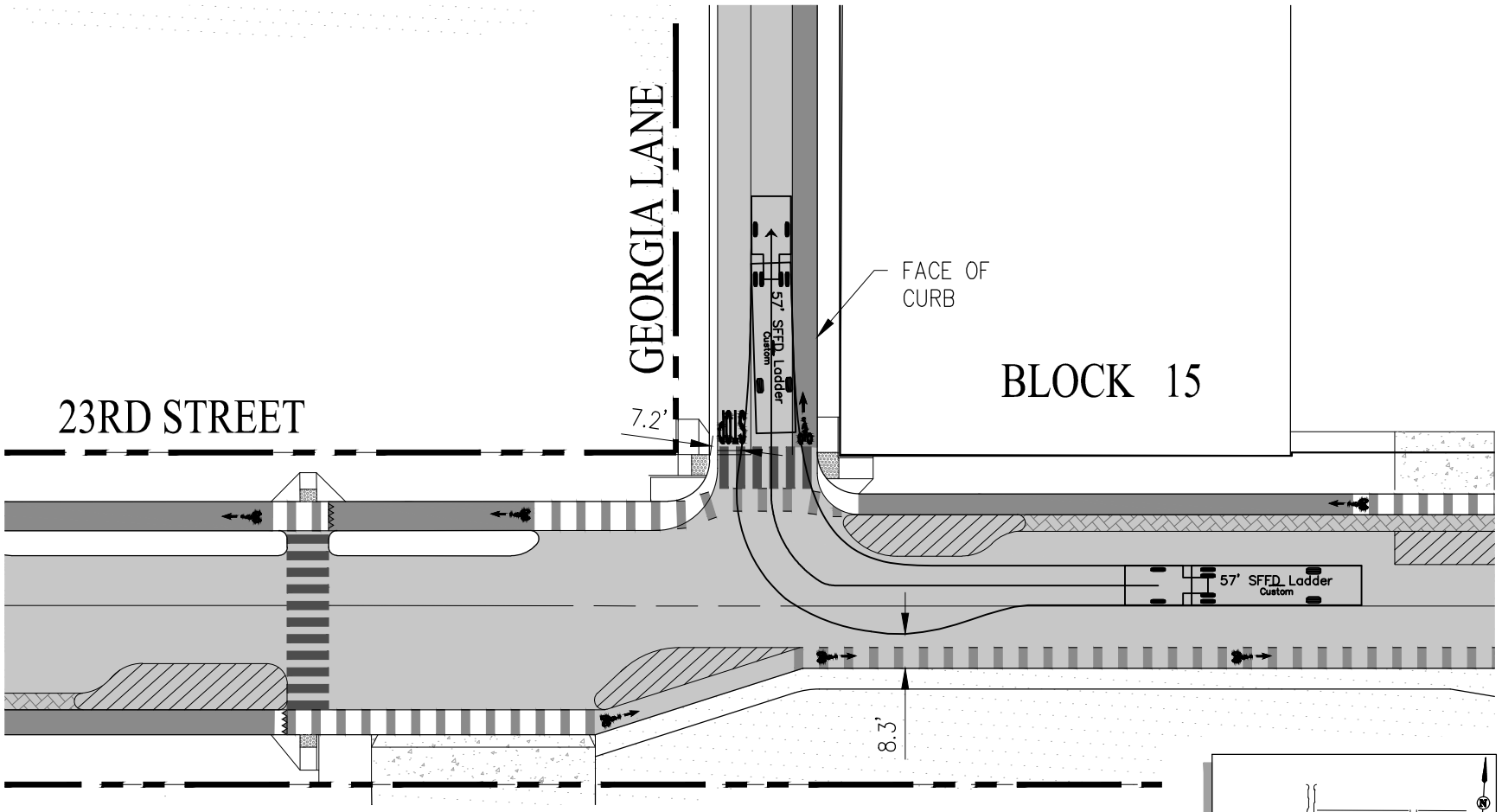
Tractor Width	: 9.50	Lock to Lock Time	: 6.0
Trailer Width	: 9.50	Steering Angle	: 30.0
Tractor Track	: 8.50	Articulating Angle	: 64.0
Trailer Track	: 8.50		

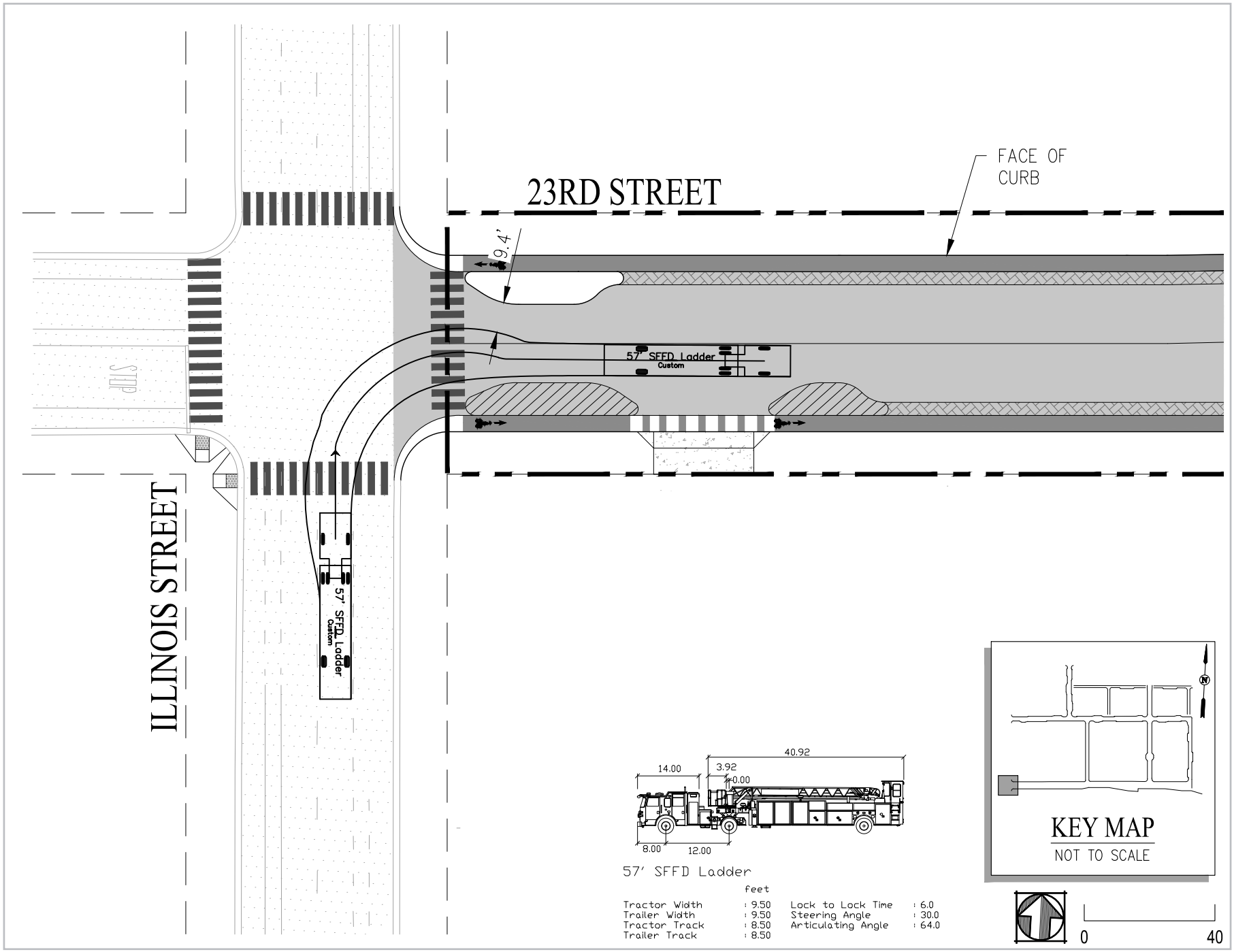


KEY MAP
NOT TO SCALE

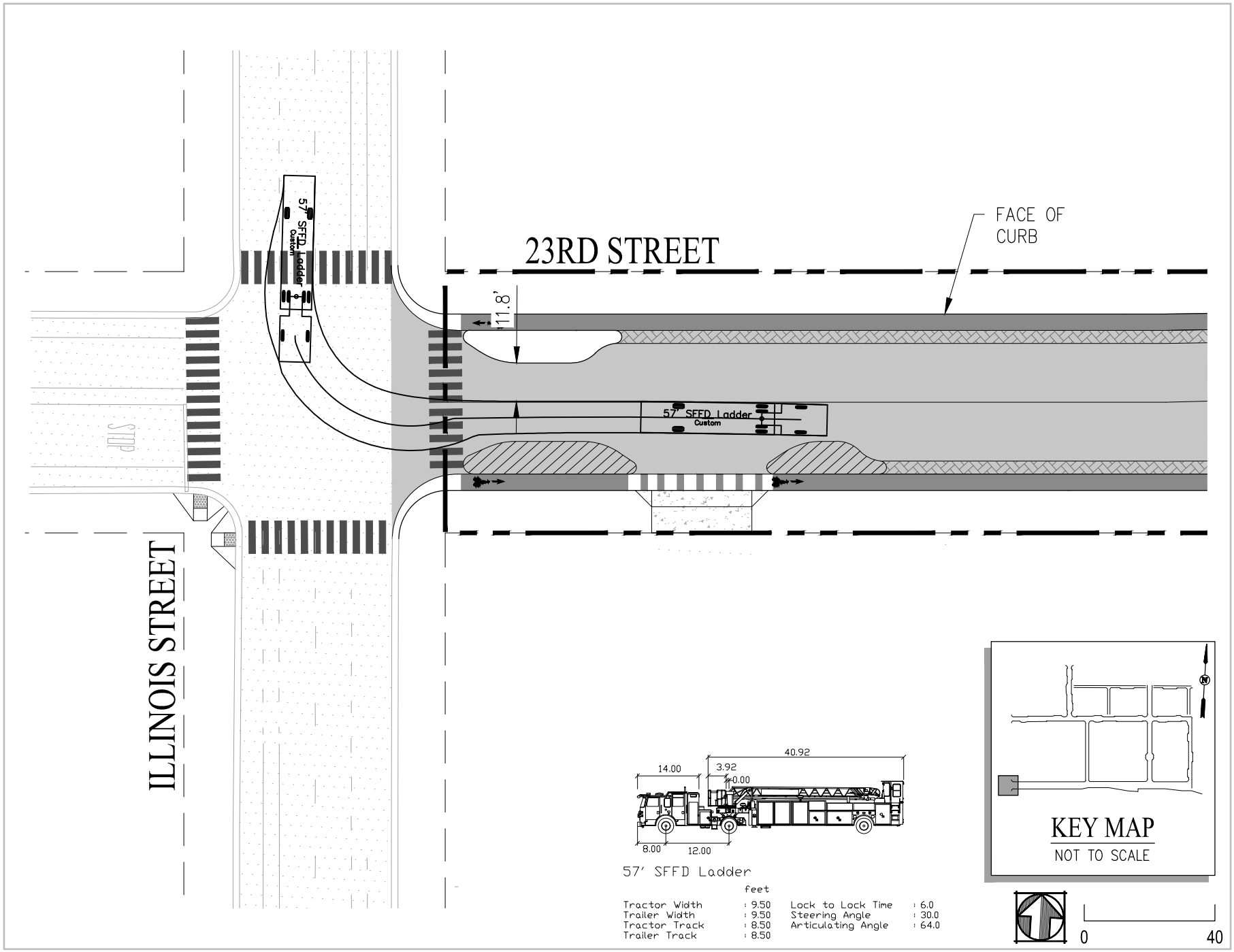
0 40

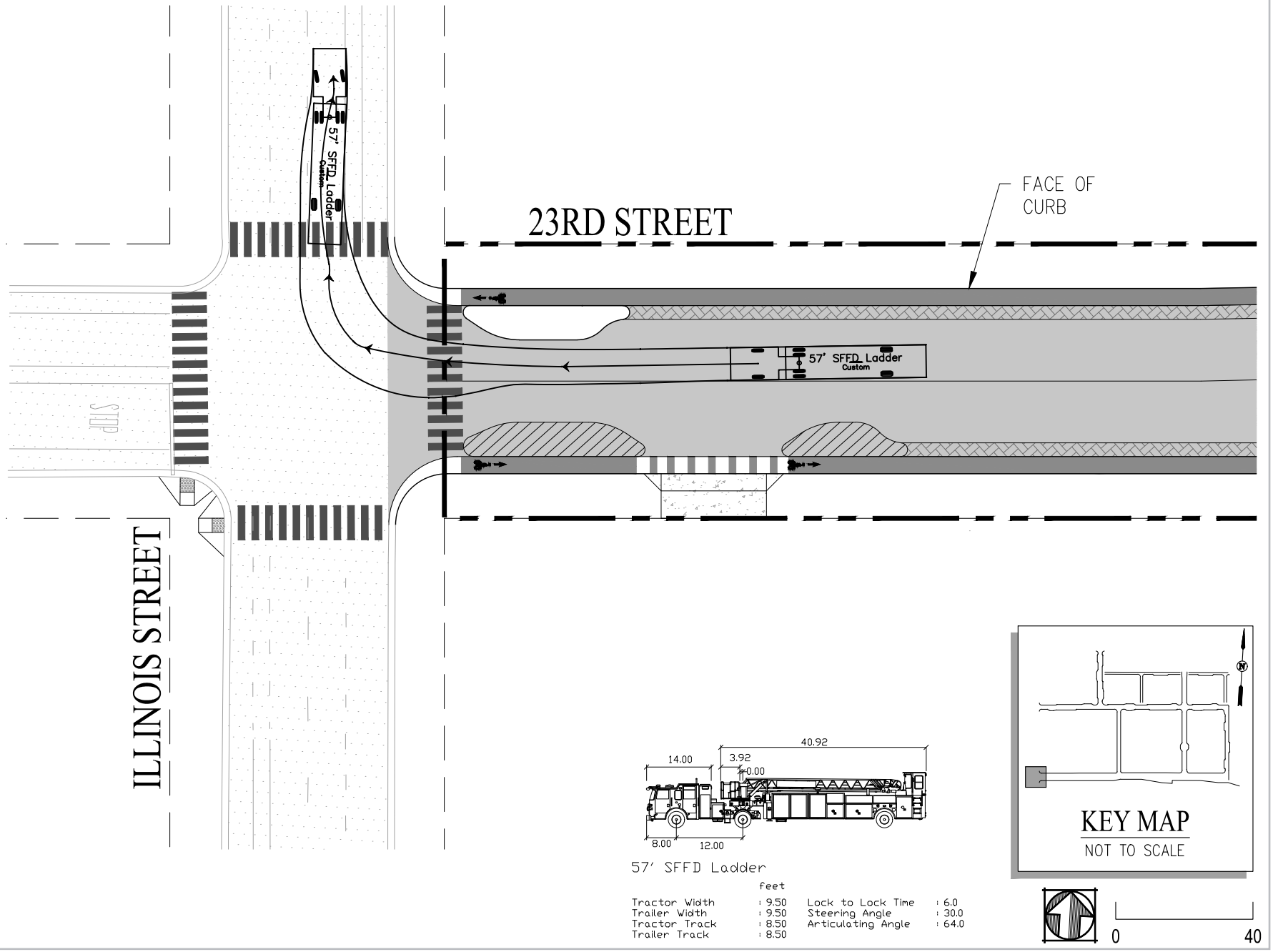

GEORGIA LANE
23RD STREET
FACE OF CURB
FACE OF CURB
BLOCK 15
8.5'
57' SFFD Ladder Custom
57' SFFD Ladder Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

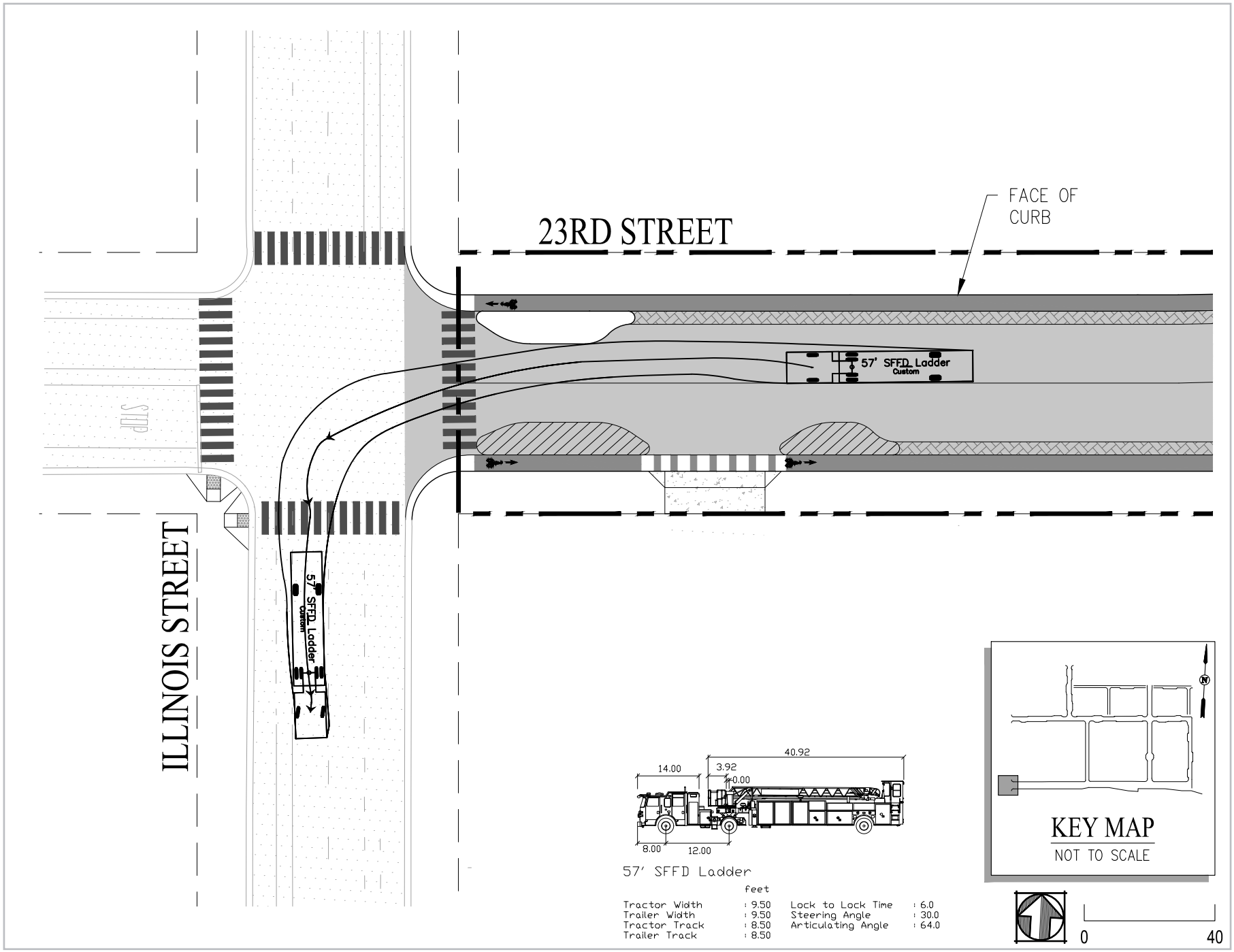

GEORGIA LANE
23RD STREET
FACE OF CURB
BLOCK 15
7.2'
57' SFFD Ladder
Custom
8.3'
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

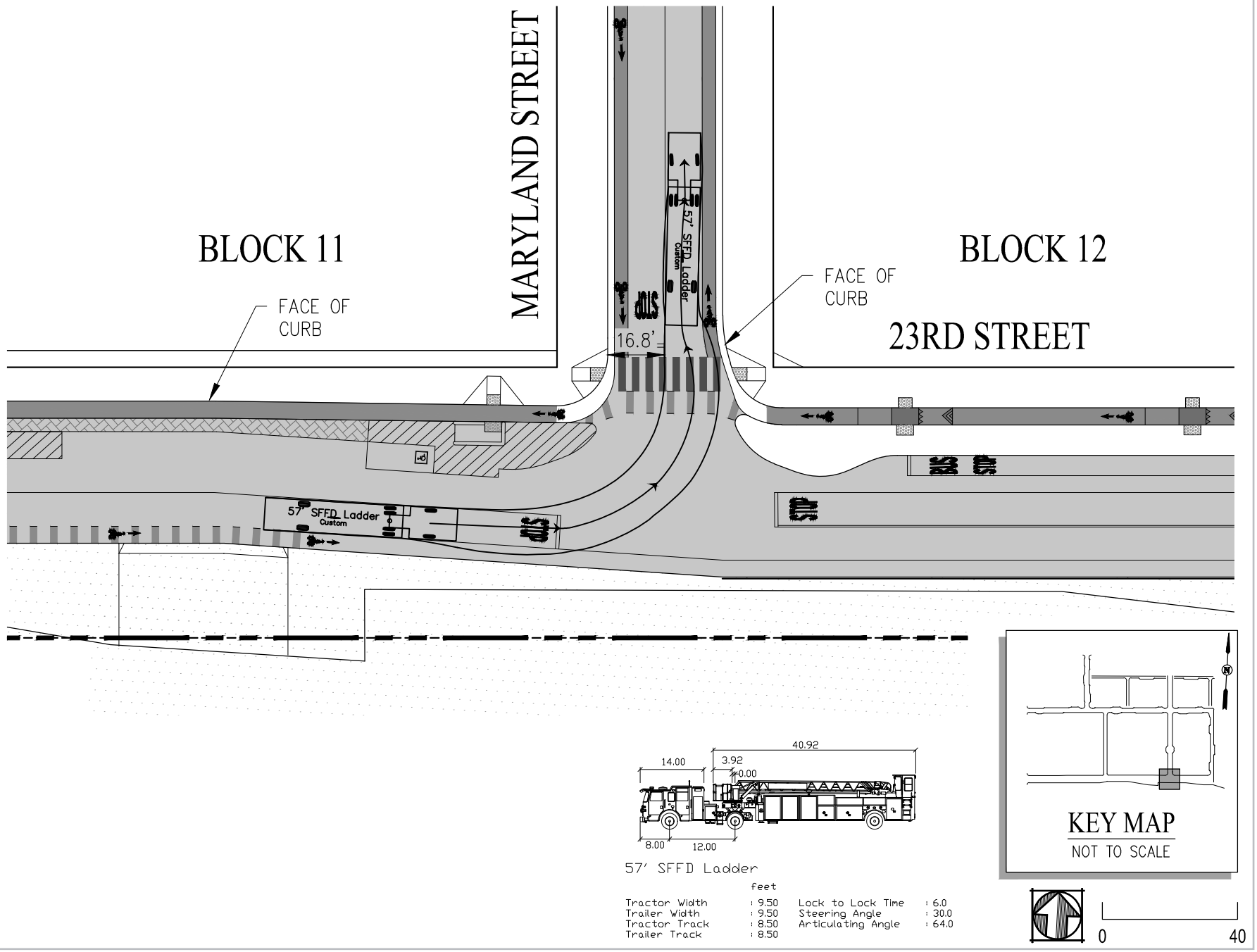


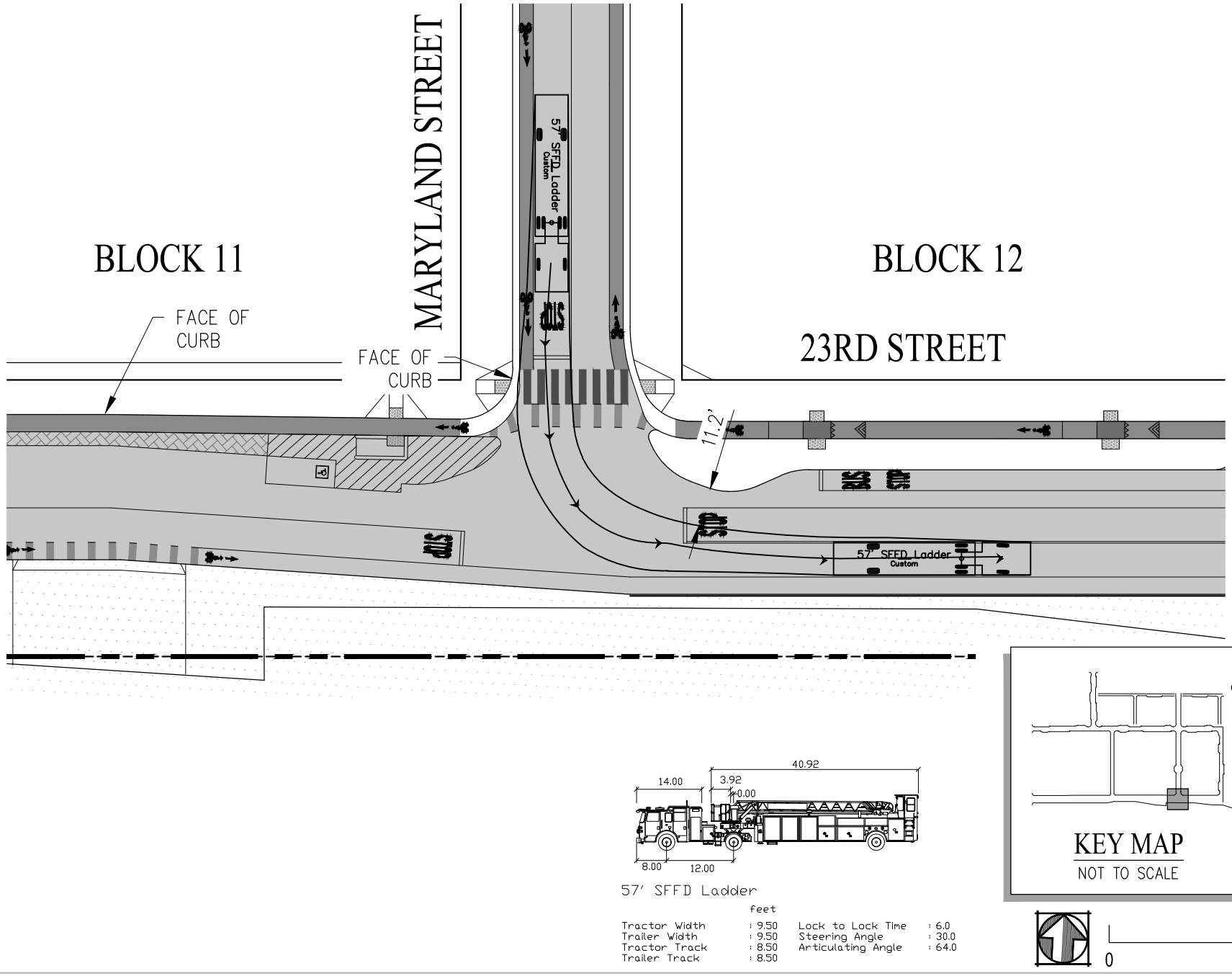
Appendix G Fire Truck Turning Movements

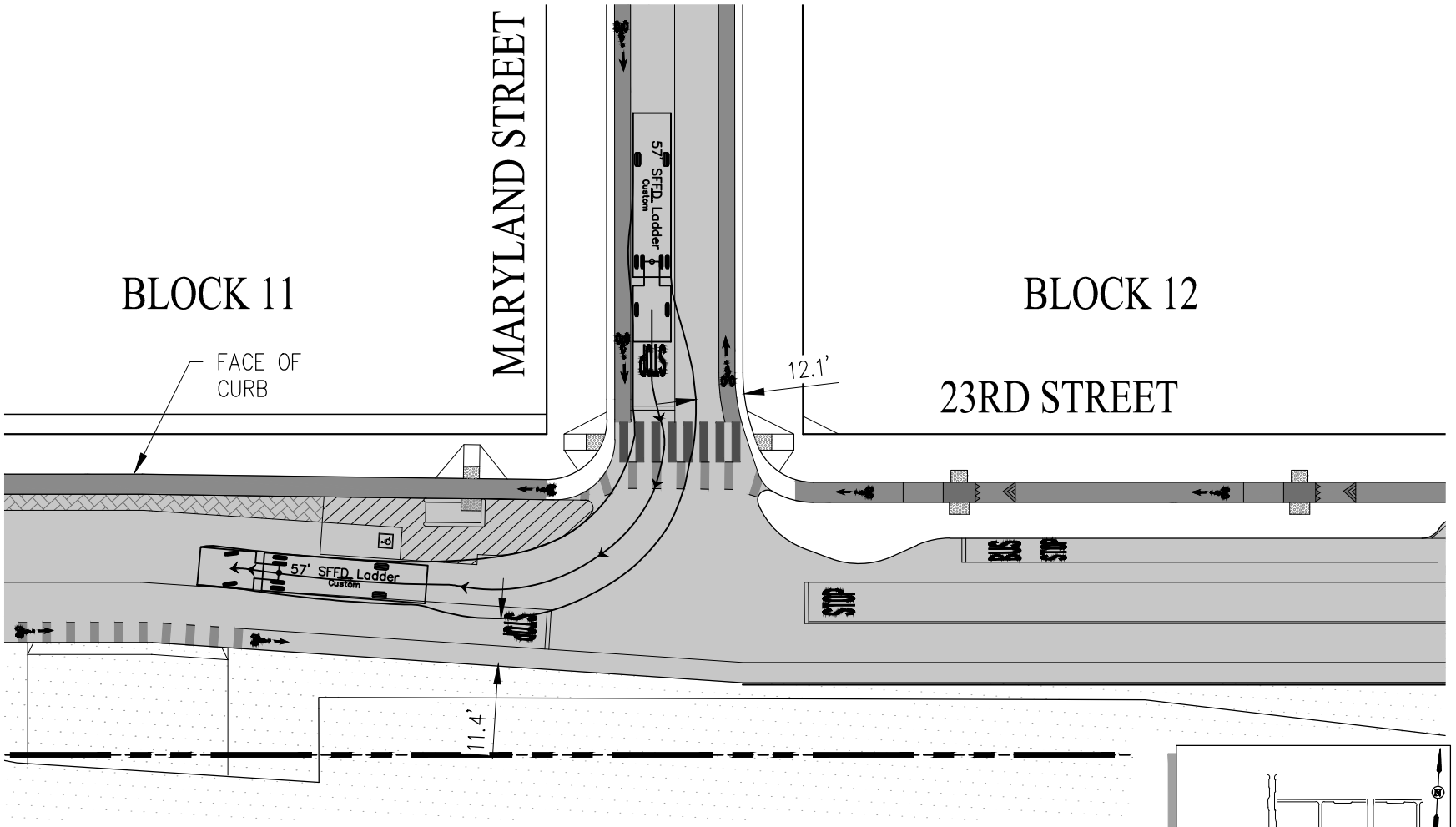

23RD STREET
ILLINOIS STREET
FACE OF CURB
11.8'
57' SFFD Ladder Custom
57' SFFD Ladder Custom
STOP
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

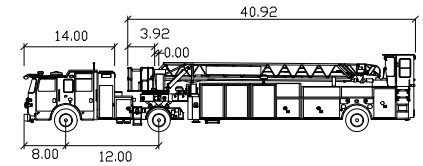

23RD STREET
FACE OF CURB
ILLINOIS STREET
57' SFFD Ladder Custom
57' SFFD Ladder Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40


23RD STREET
FACE OF CURB
ILLINOIS STREET
57' SFFD Ladder
Custom
57' SFFD Ladder
Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40


BLOCK 11
MARYLAND STREET
BLOCK 12
FACE OF CURB
FACE OF CURB
23RD STREET
16.8'
57' SFFD Ladder Custom
57' SFFD Ladder Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40


MARYLAND STREET
BLOCK 11
BLOCK 12
23RD STREET
FACE OF CURB
FACE OF CURB
57' SFFD Ladder Custom
57' SFFD Ladder Custom
11.2'
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

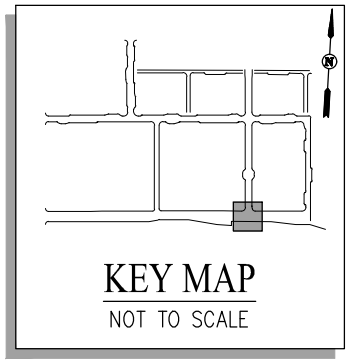




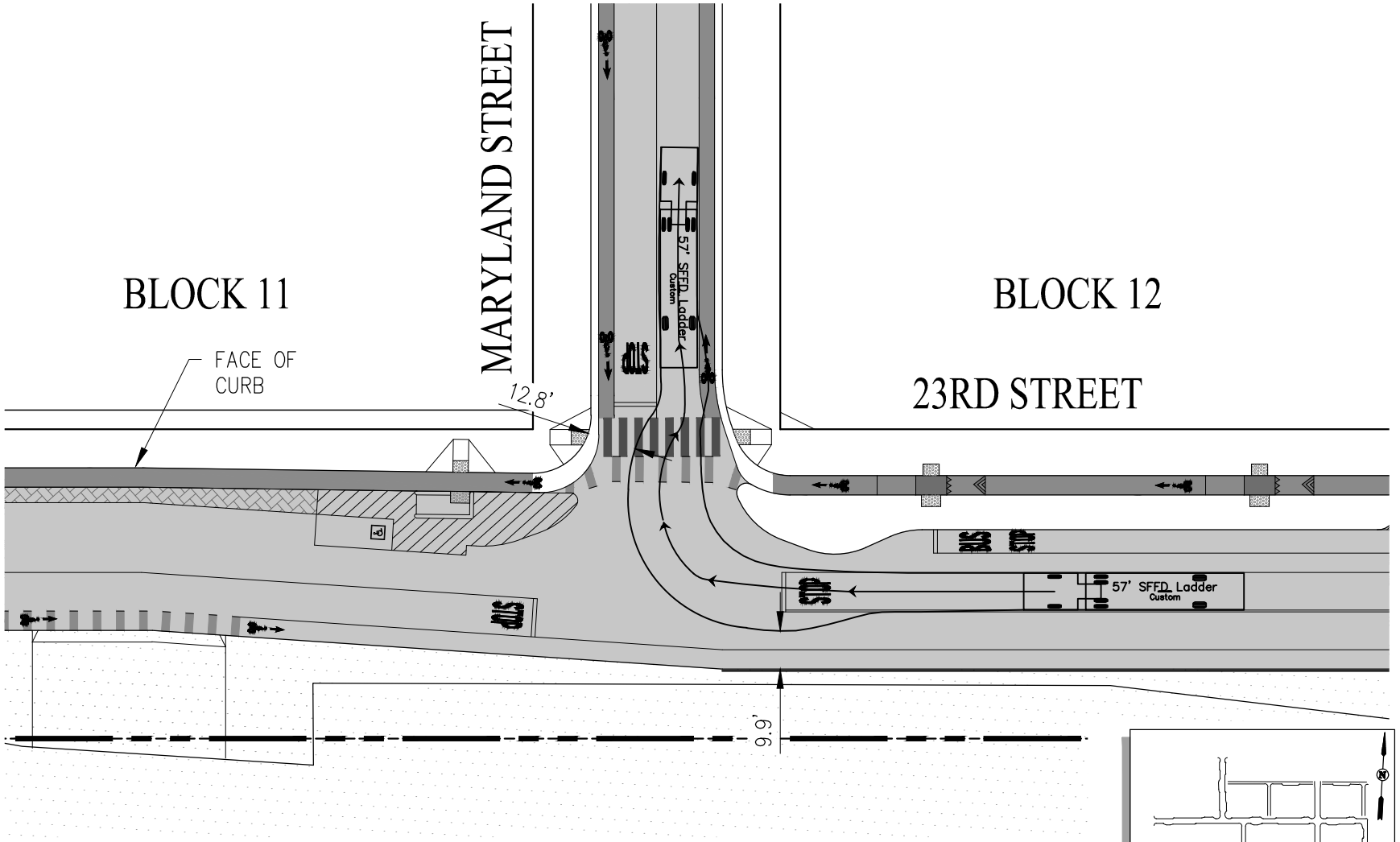
57' SFFD Ladder

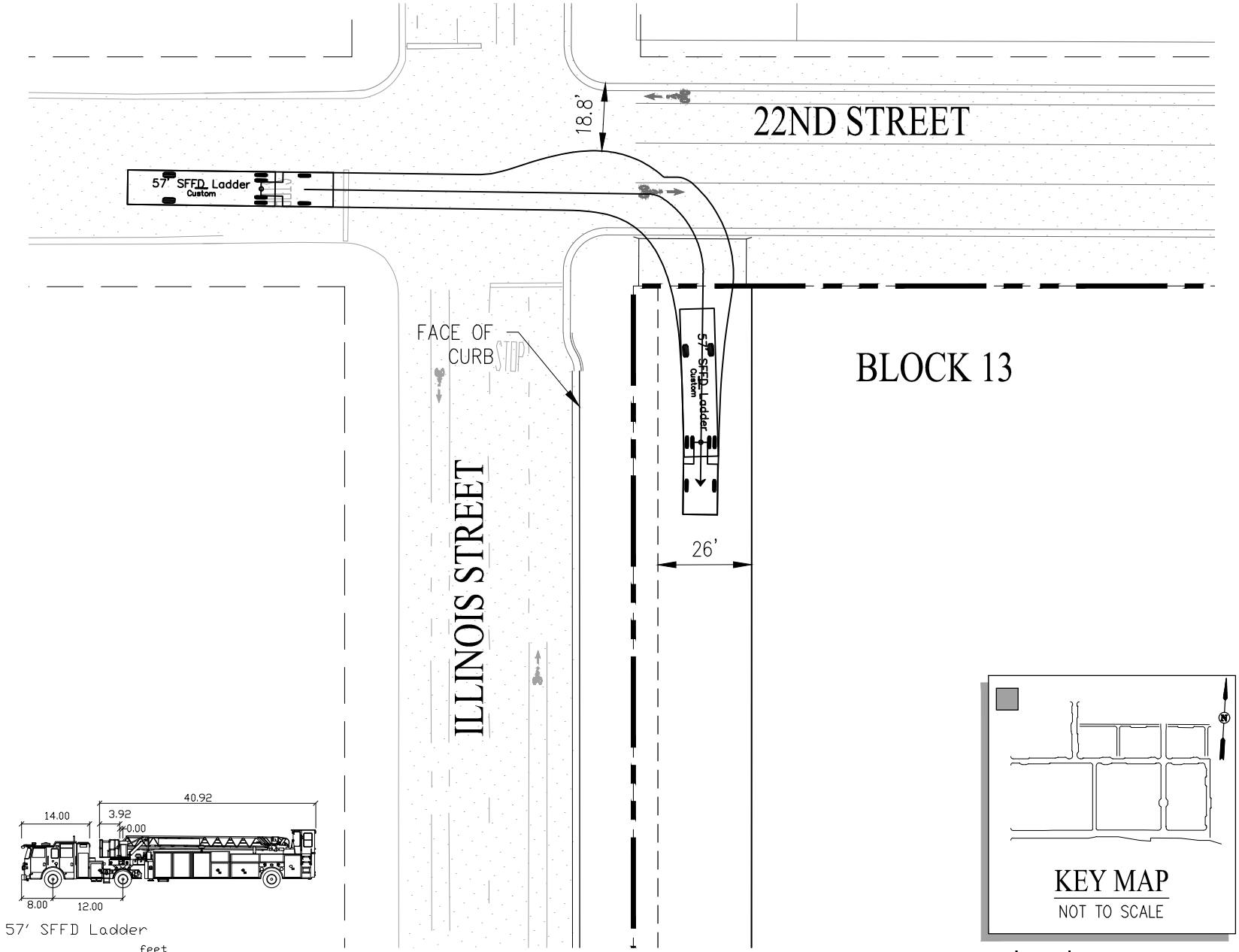
feet

Tractor Width	: 9.50	Lock to Lock Time	: 6.0
Trailer Width	: 9.50	Steering Angle	: 30.0
Tractor Track	: 8.50	Articulating Angle	: 64.0
Trailer Track	: 8.50		

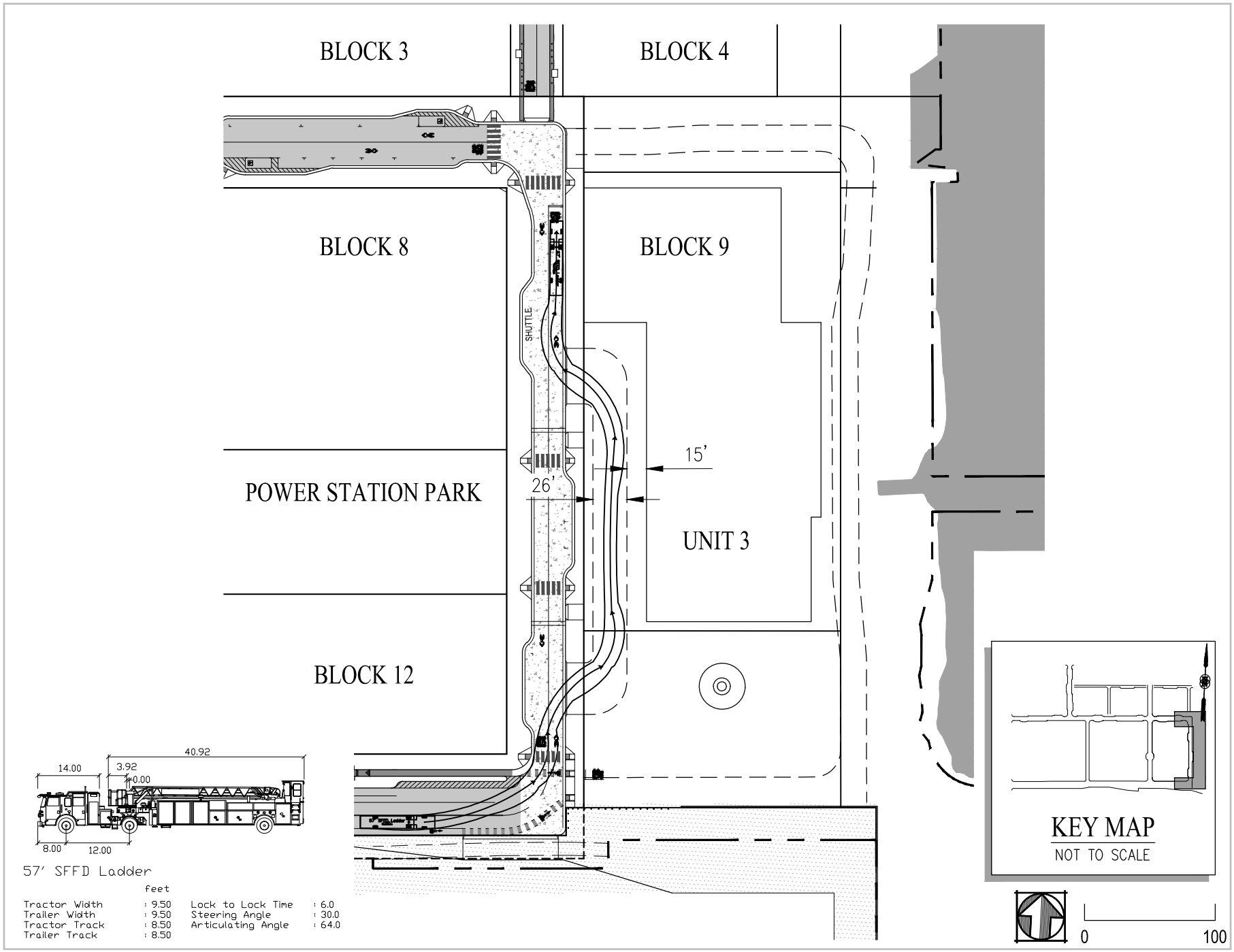


0 40

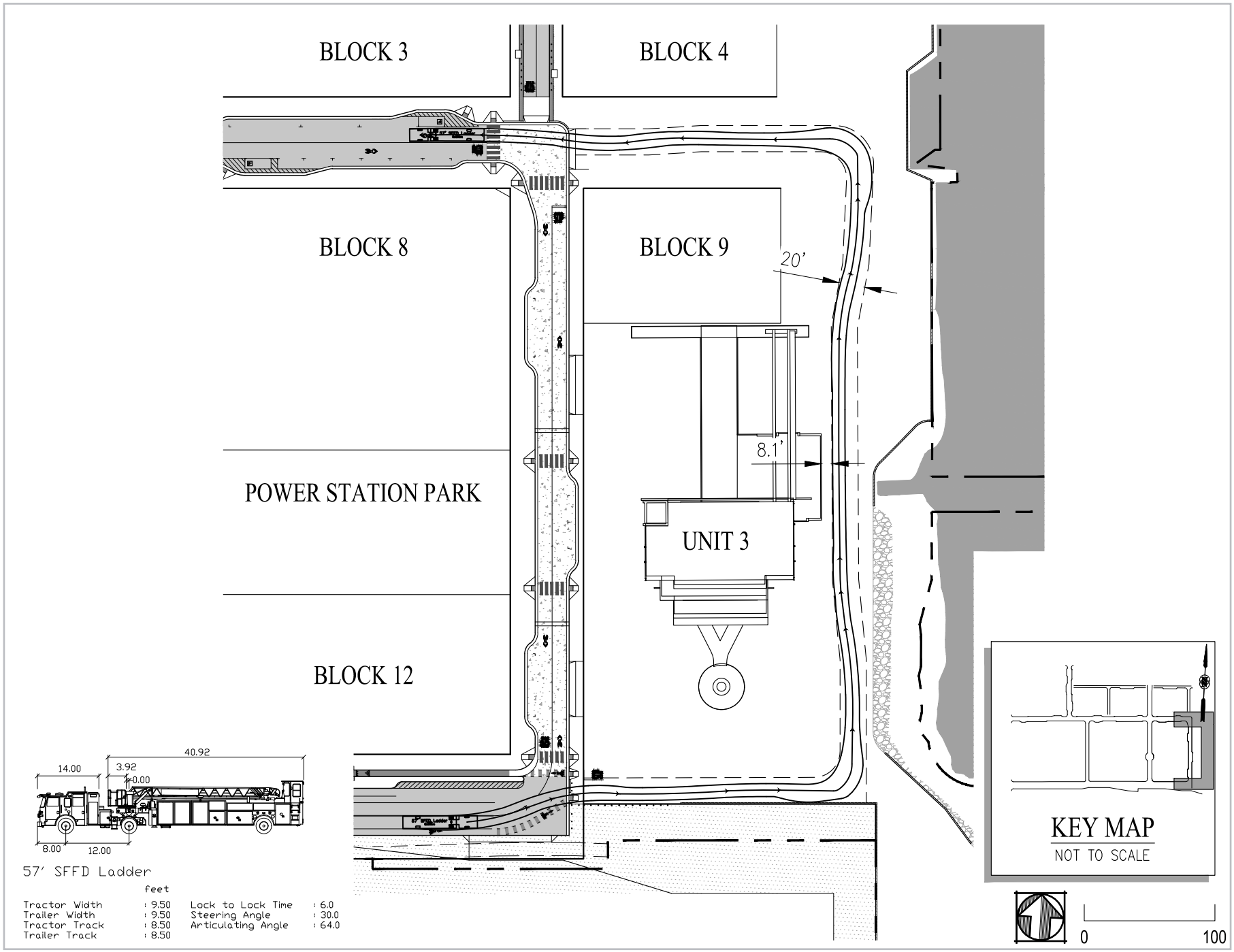

BLOCK 11
MARYLAND STREET
BLOCK 12
23RD STREET
FACE OF CURB
12.8'
57' SFFD Ladder
Custom
57' SFFD Ladder
Custom
9.9'
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

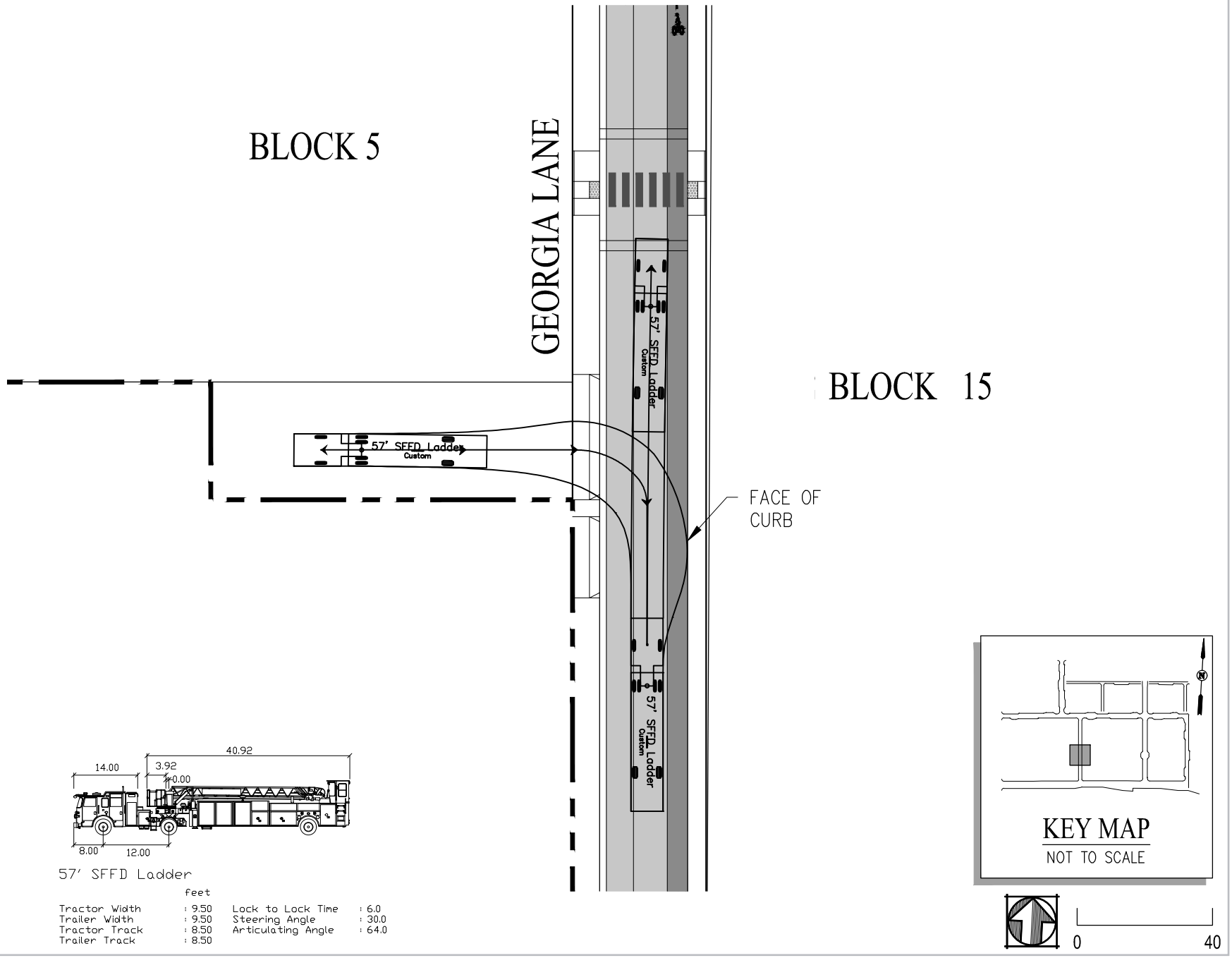


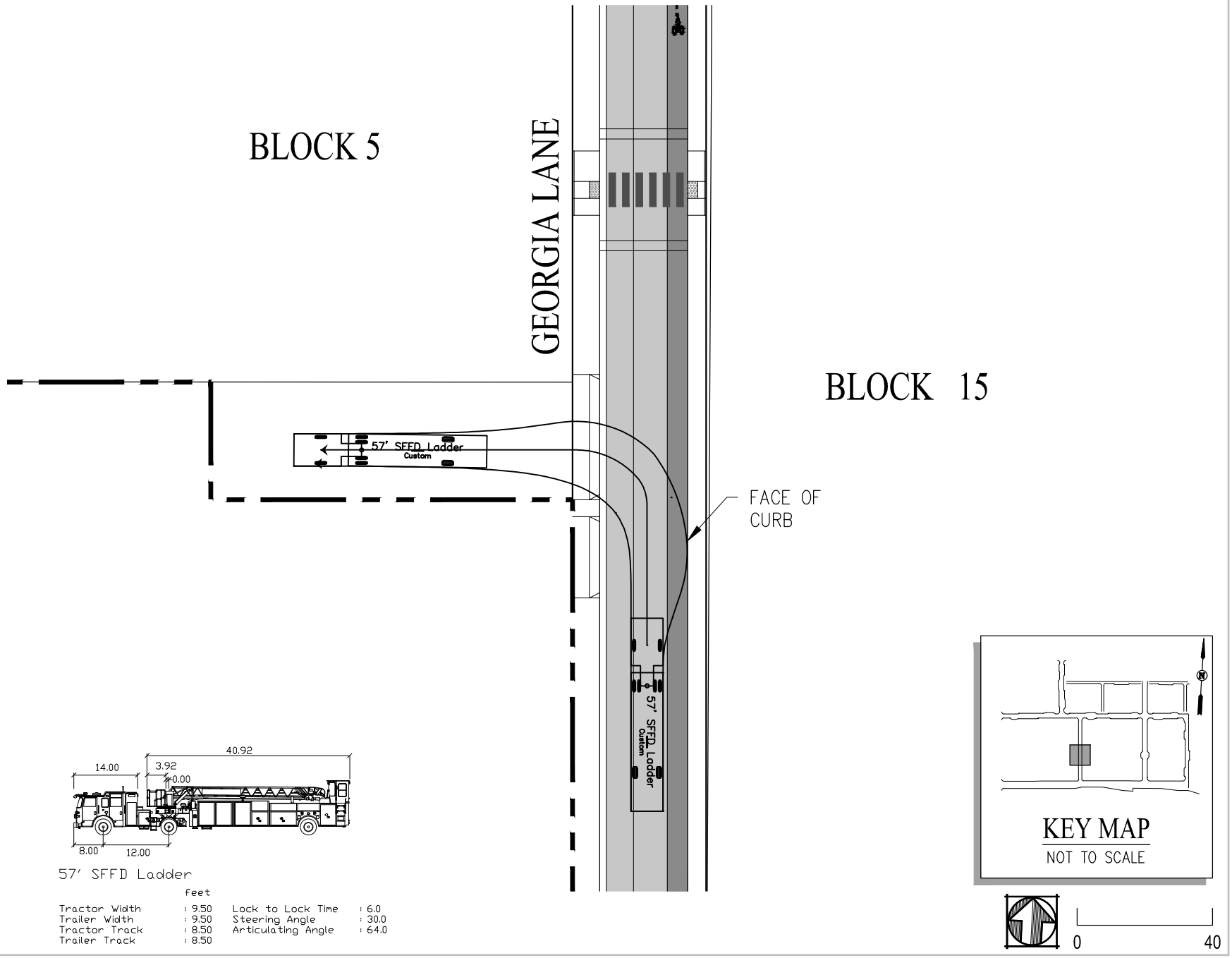
Appendix G Fire Truck Turning Movements

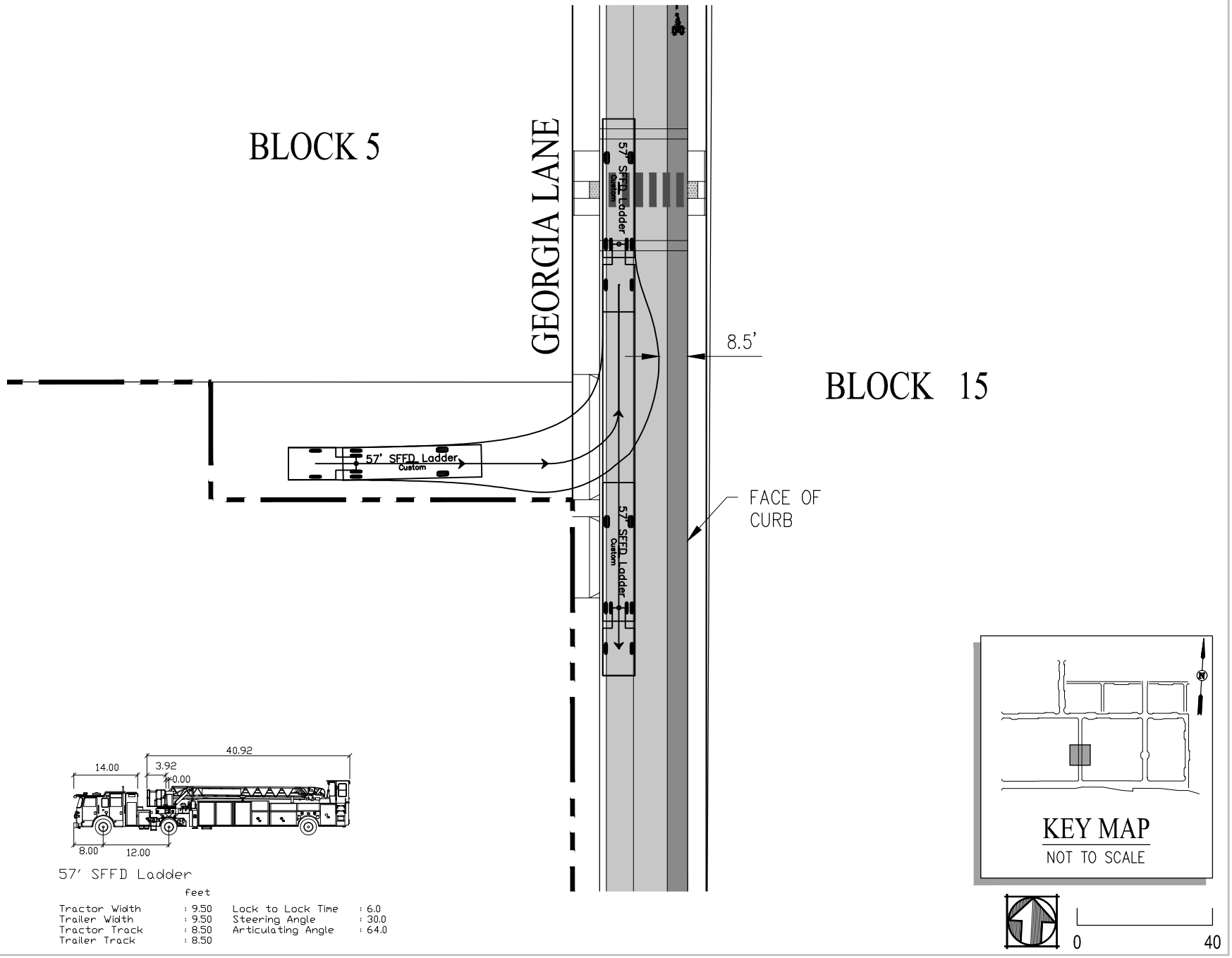


Appendix G Fire Truck Turning Movements


BLOCK 3
BLOCK 4
BLOCK 8
BLOCK 9
20'
8.1'
POWER STATION PARK
UNIT 3
BLOCK 12
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
100

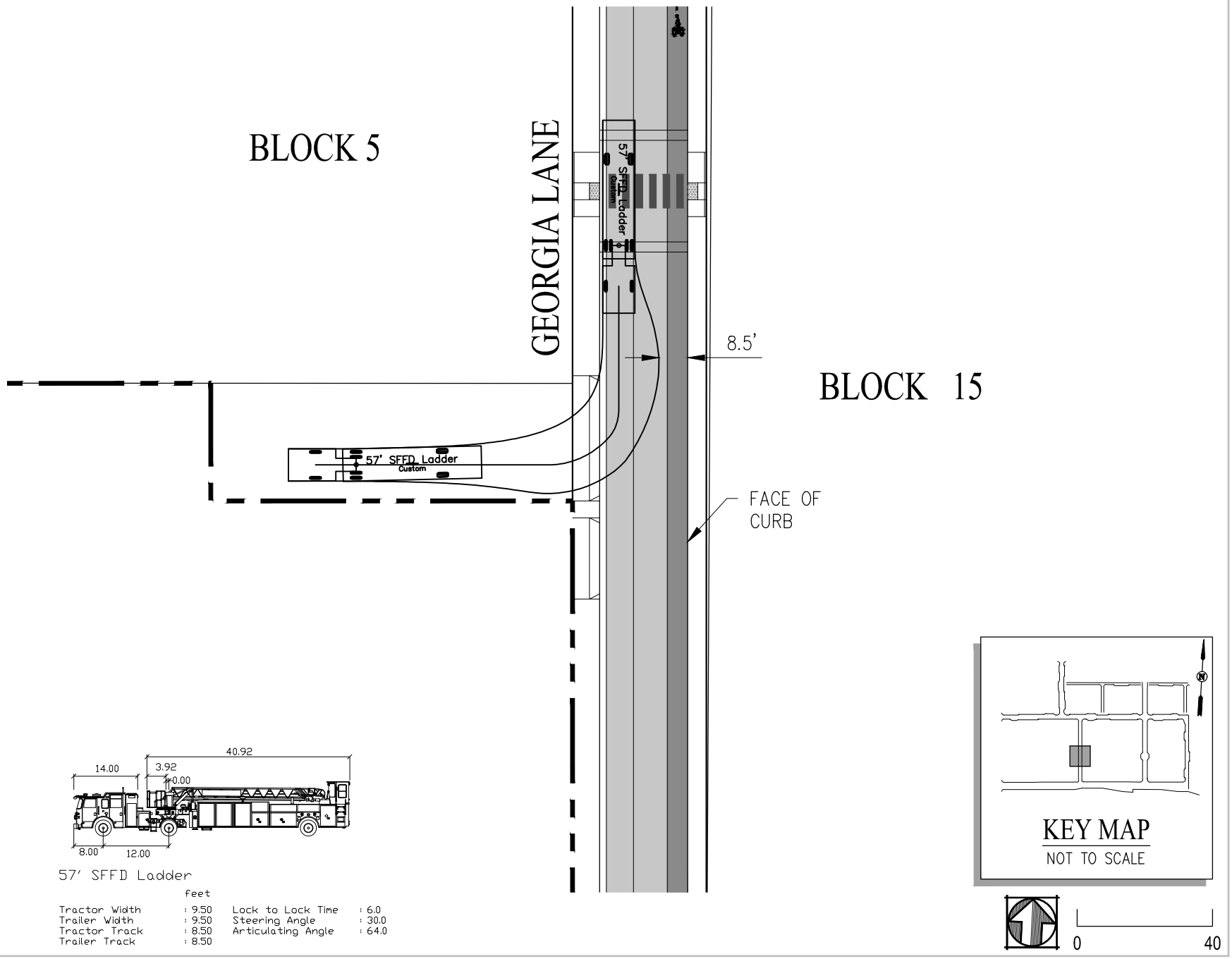

BLOCK 5
GEORGIA LANE
BLOCK 15
57' SFFD Ladder
Custom
57' SFFD Ladder
Custom
57' SFFD Ladder
Custom
FACE OF
CURB
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

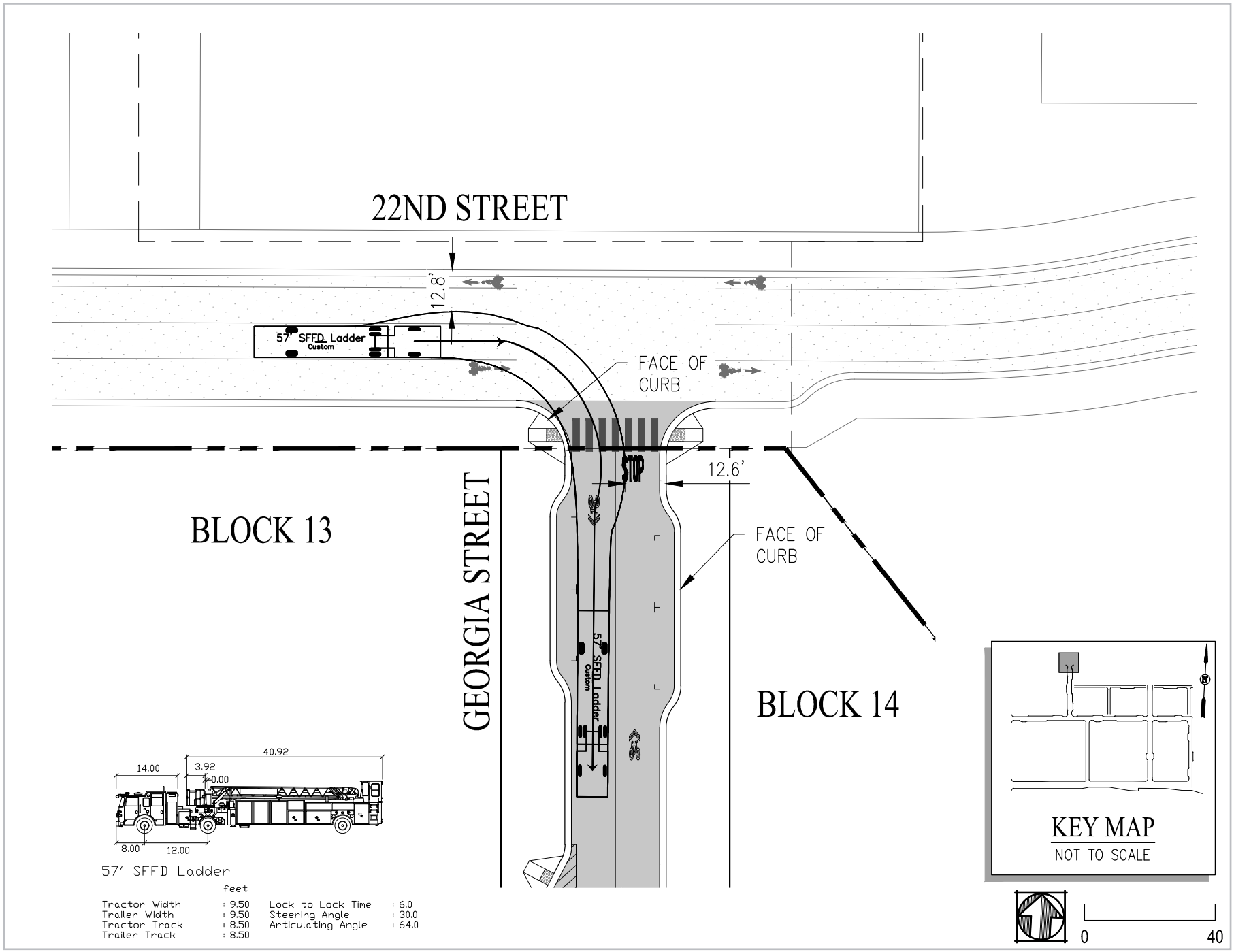

BLOCK 5
GEORGIA LANE
BLOCK 15
57' SFFD Ladder
Custom
FACE OF
CURB
57' SFFD Ladder
Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

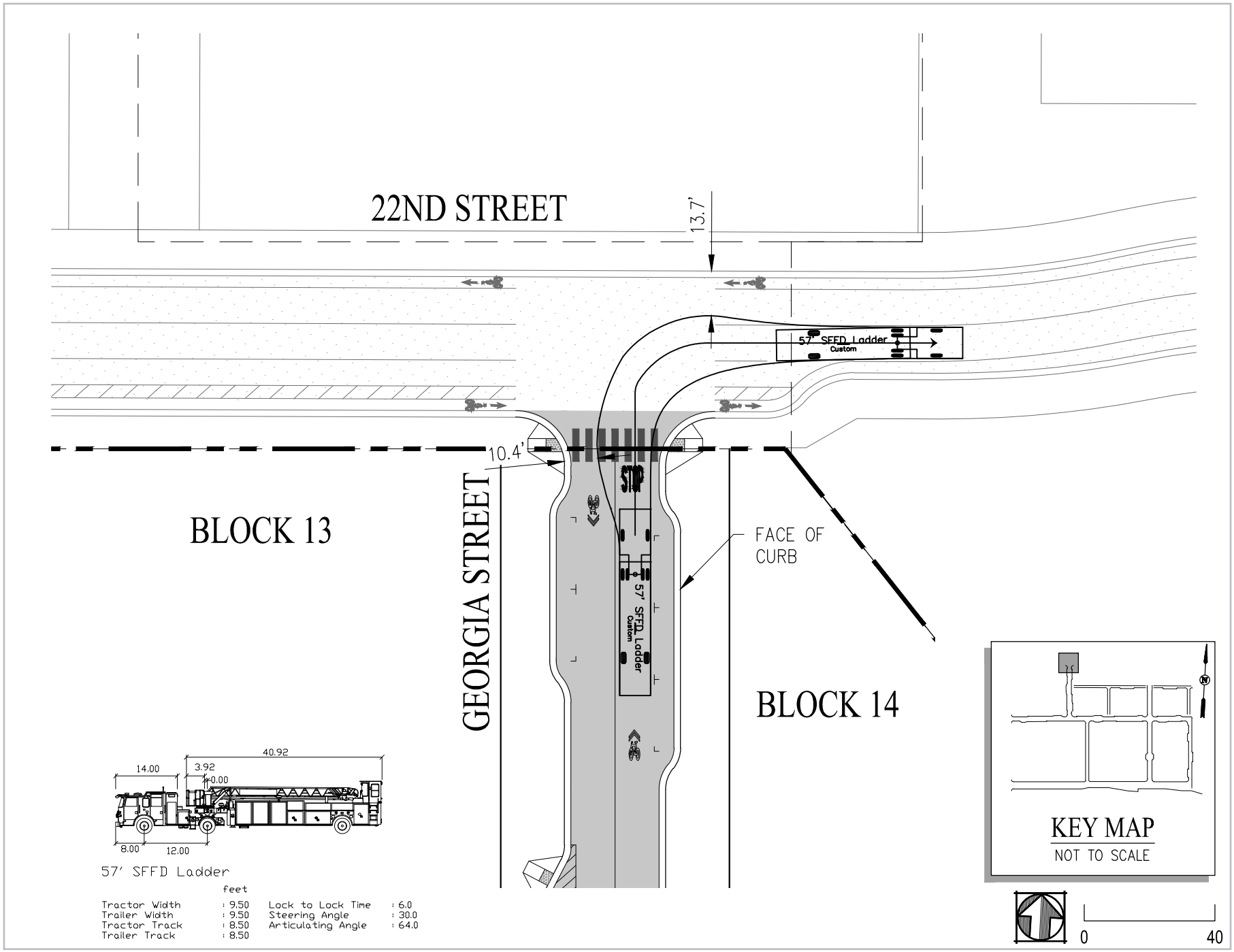


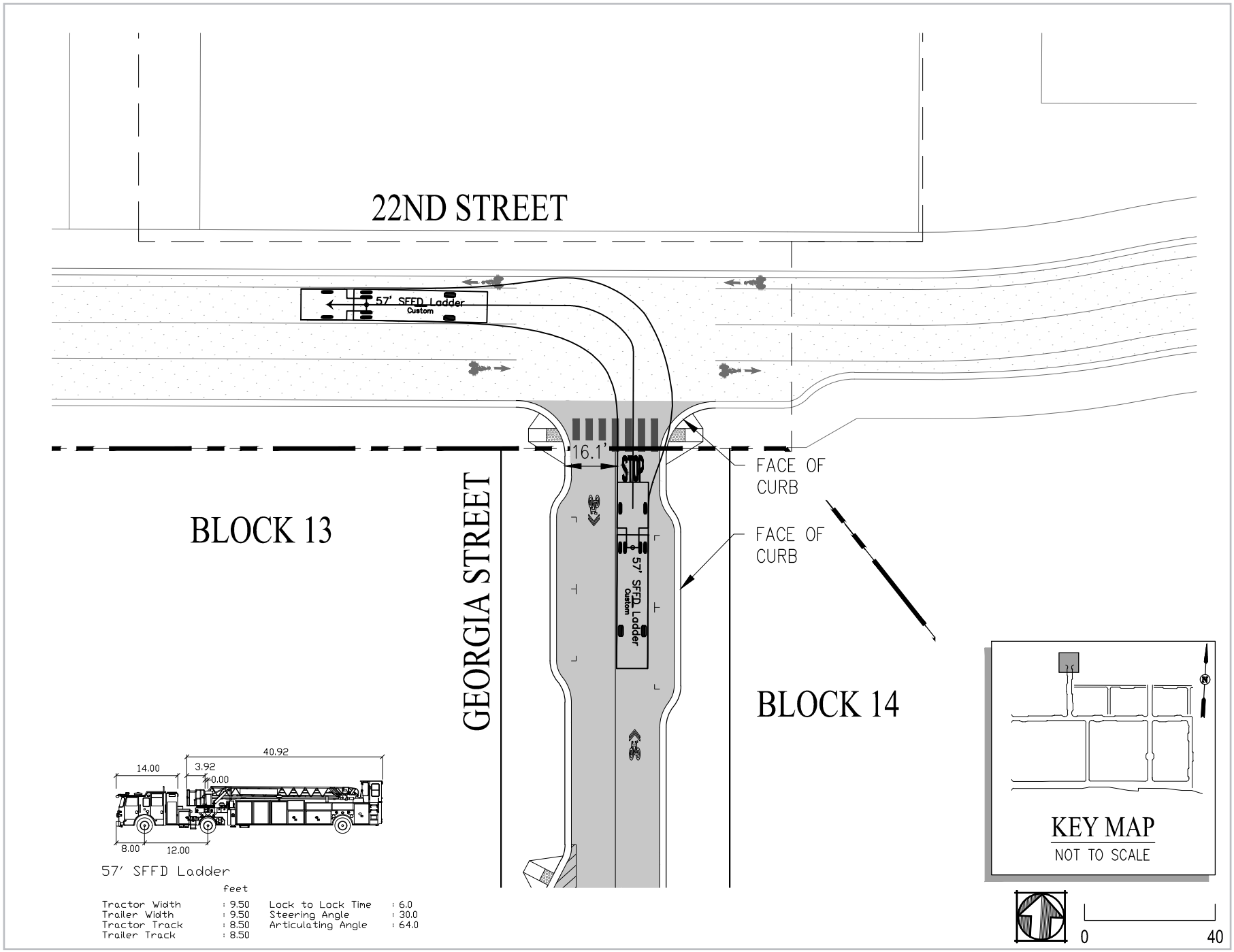
57' SFFD Ladder

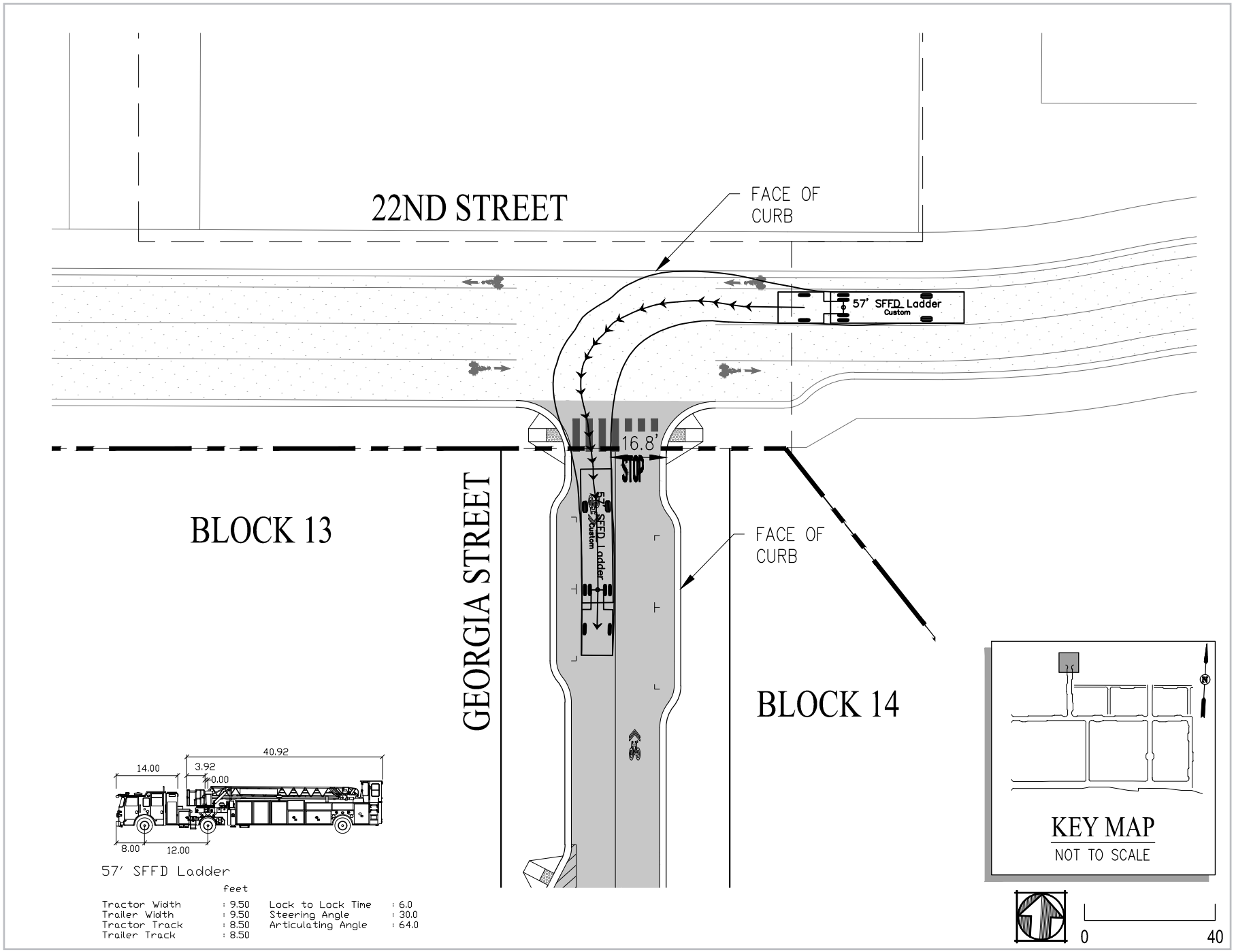
	feet		
Tractor Width	: 9.50	Lock to Lock Time	: 6.0
Trailer Width	: 9.50	Steering Angle	: 30.0
Tractor Track	: 8.50	Articulating Angle	: 64.0
Trailer Track	: 8.50		

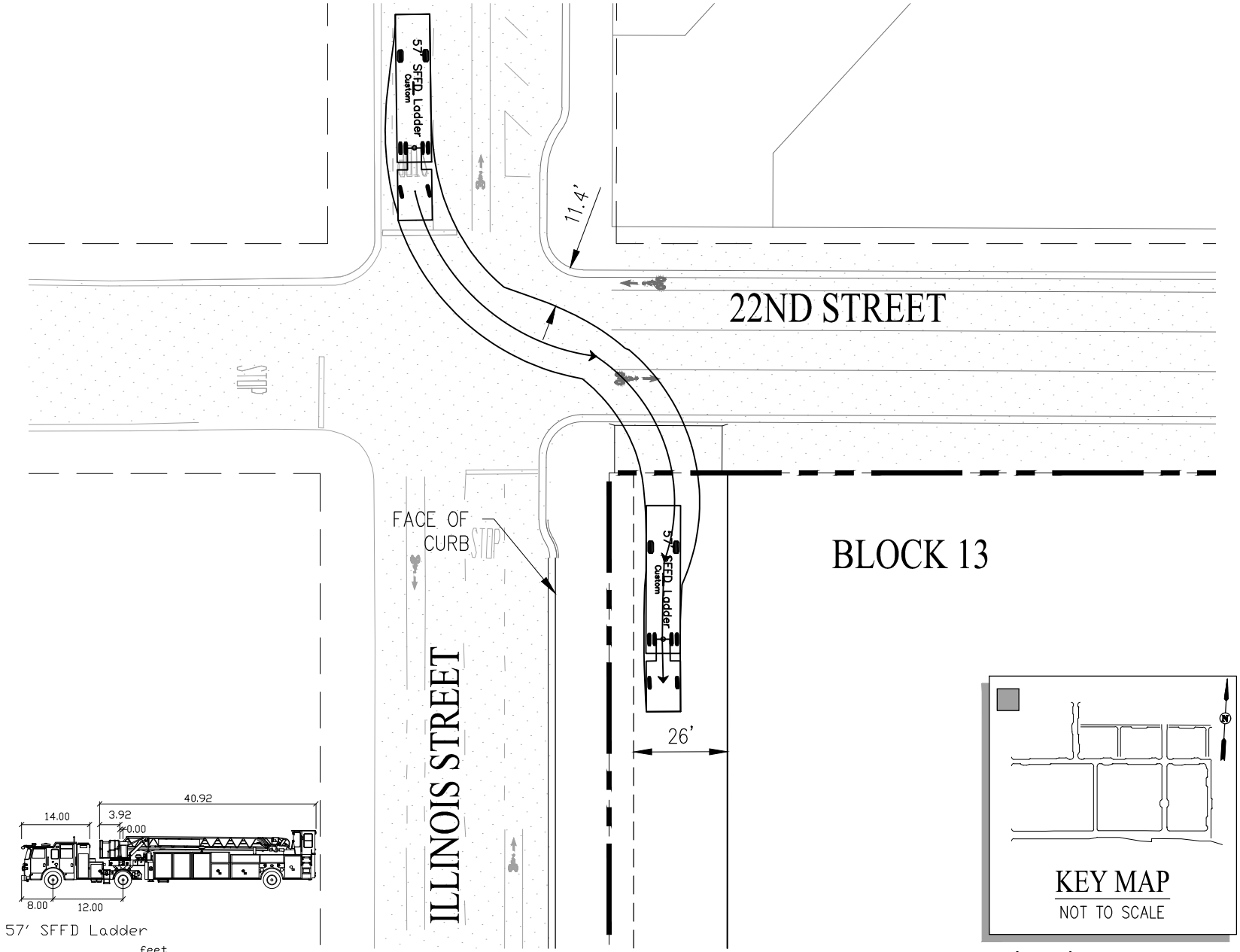

BLOCK 5
GEORGIA LANE
57' SFFD Ladder
Custom
8.5'
BLOCK 15
57' SFFD Ladder
Custom
FACE OF
CURB
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

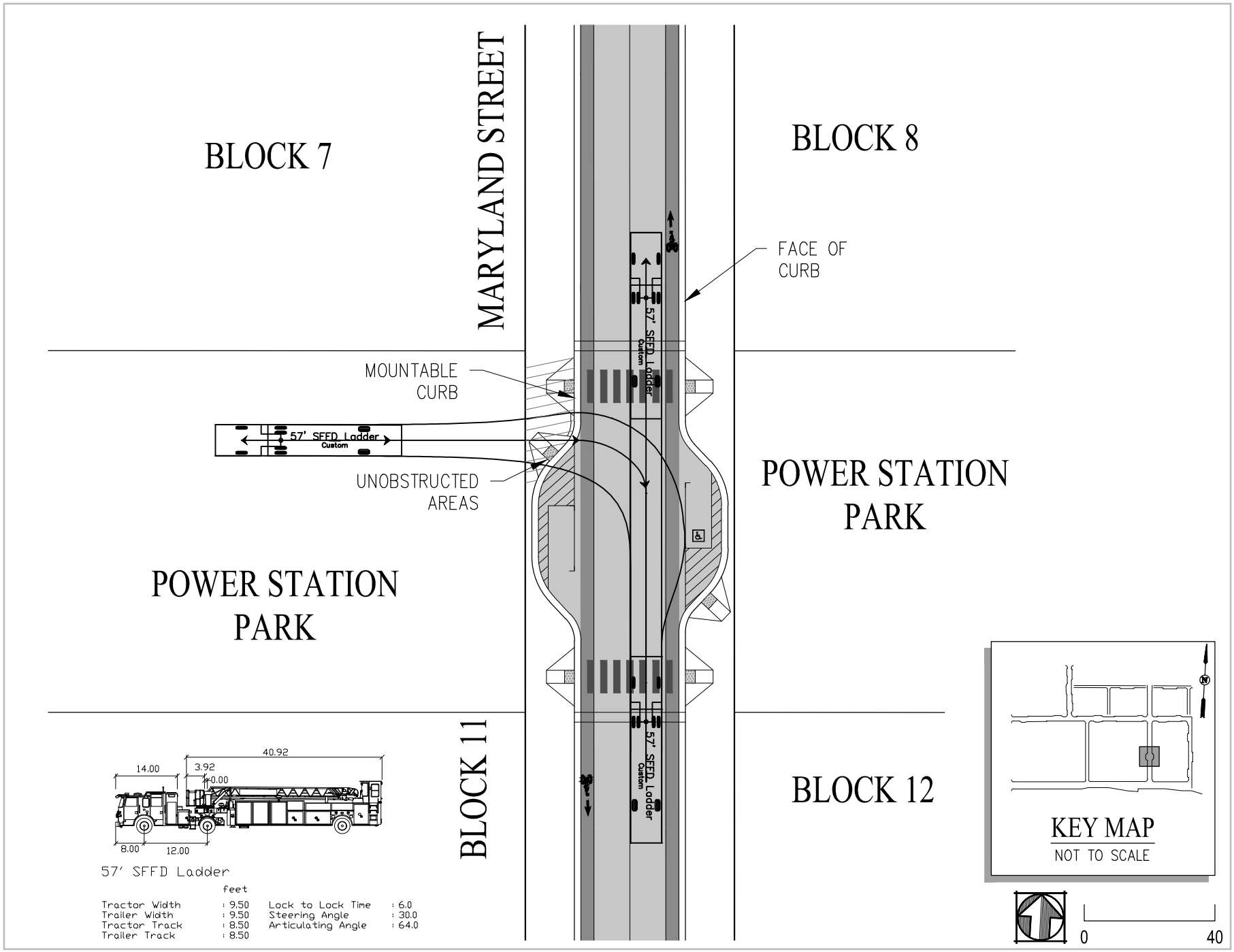

22ND STREET
12.8'
57' SFFD Ladder
Custom
FACE OF
CURB
STOP
12.6'
FACE OF
CURB
BLOCK 13
GEORGIA STREET
57' SFFD Ladder
Custom
BLOCK 14
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

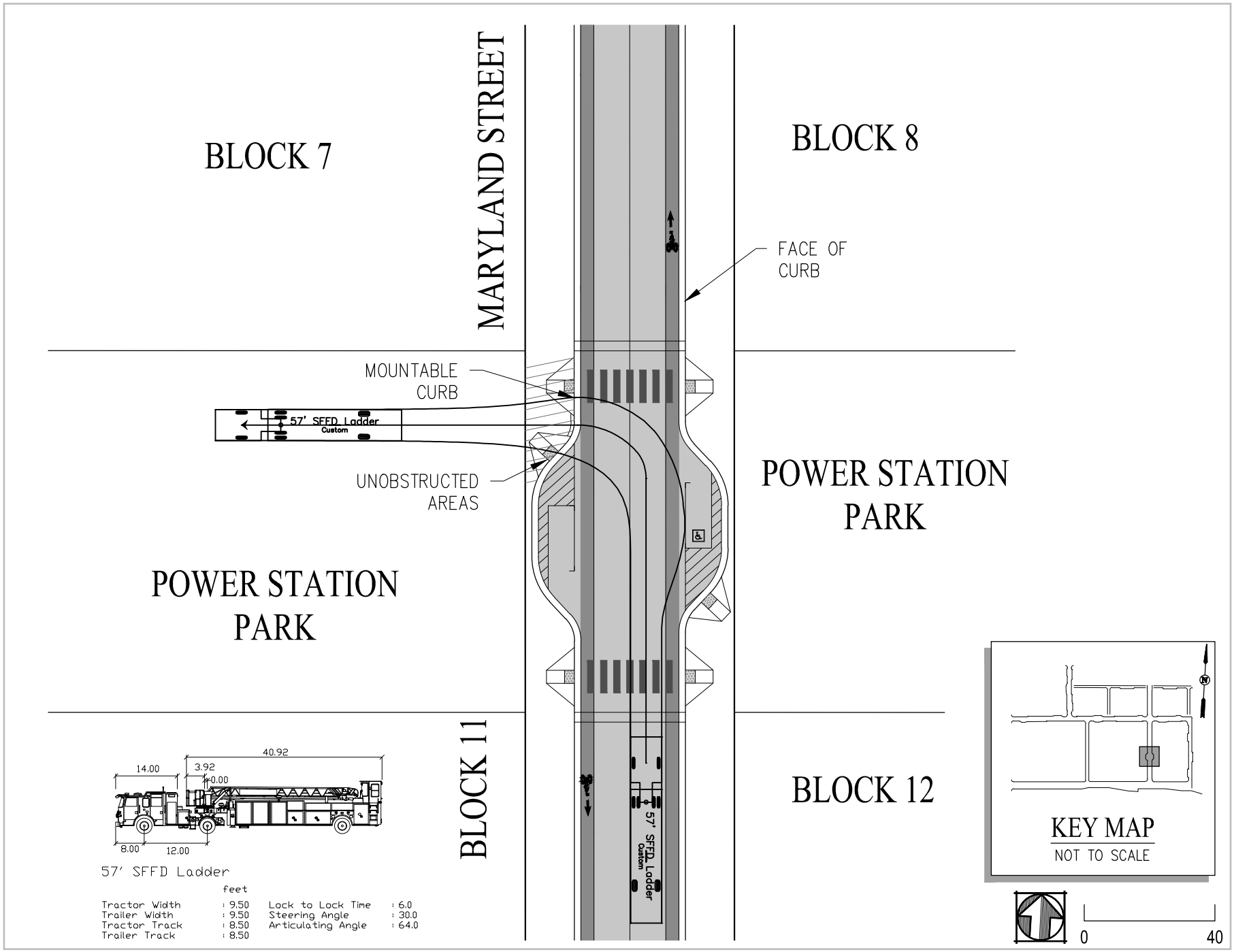

22ND STREET
13.7'
57' SFFD Ladder
Custom
10.4'
BLOCK 13
GEORGIA STREET
FACE OF
CURB
57' SFFD Ladder
Custom
BLOCK 14
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

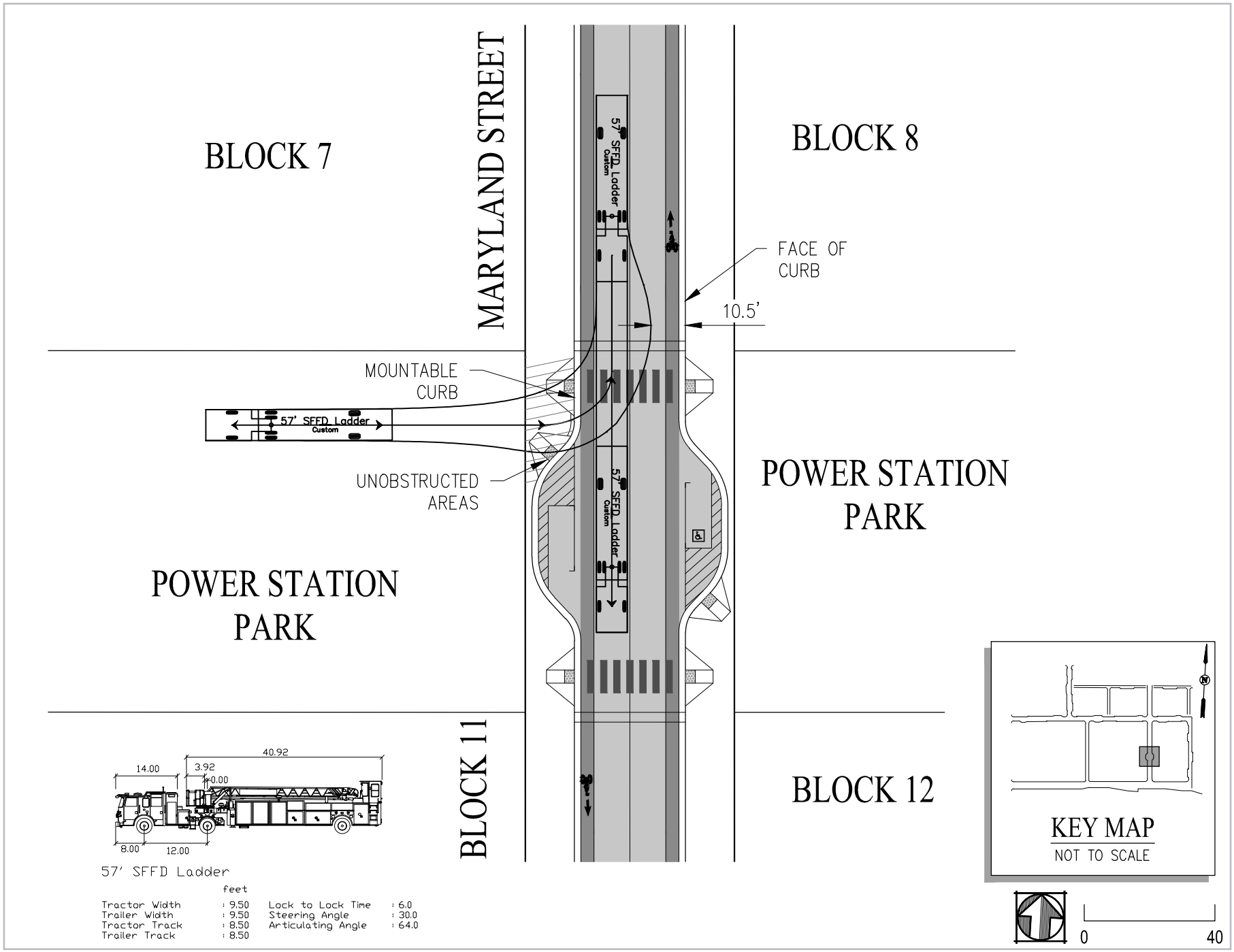

22ND STREET
57' SFFD Ladder
Custom
16.1'
STOP
FACE OF
CURB
FACE OF
CURB
BLOCK 13
GEORGIA STREET
57' SFFD Ladder
Custom
BLOCK 14
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

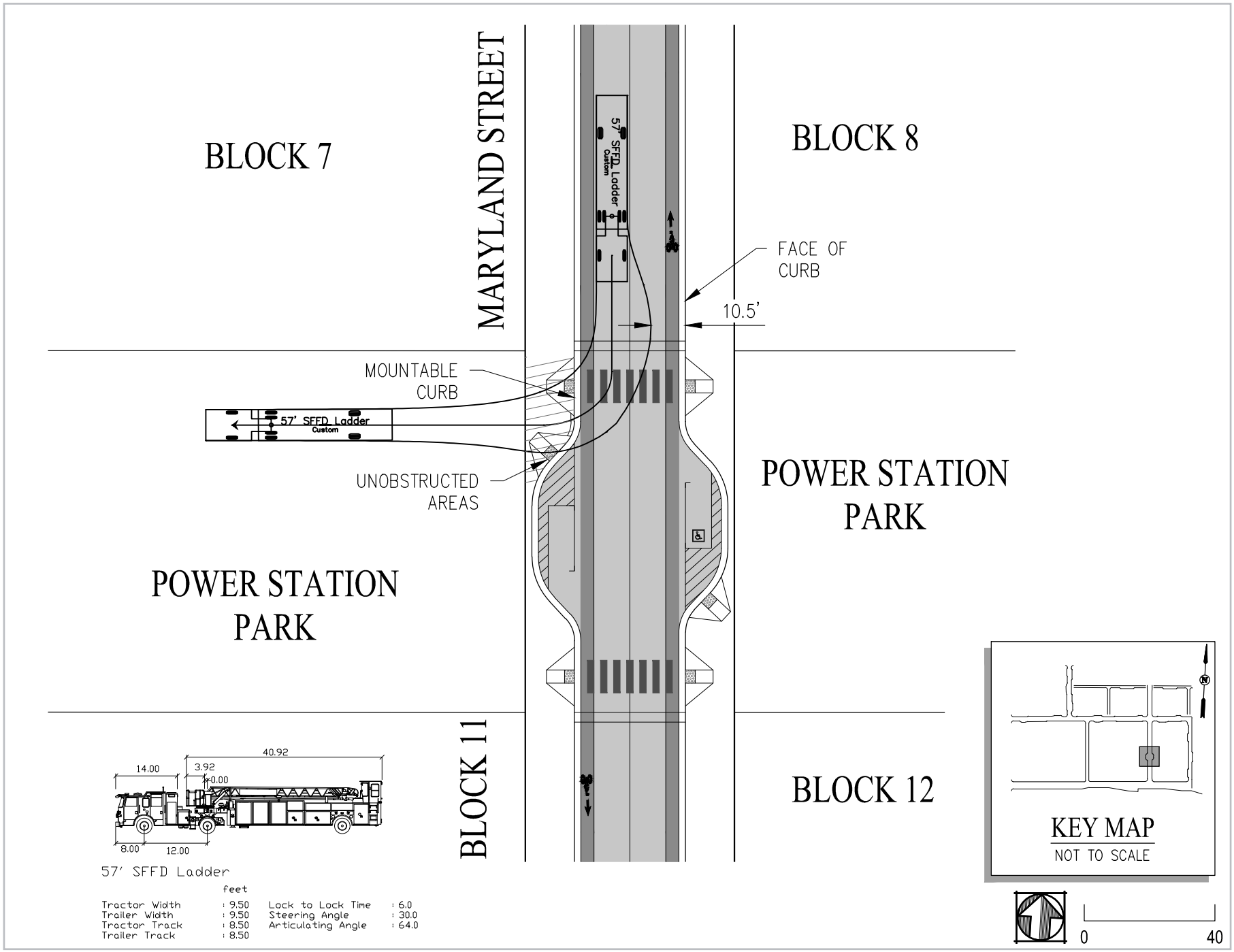

22ND STREET
FACE OF CURB
57' SFFD Ladder
Custom
16.8'
STOP
BLOCK 13
GEORGIA STREET
FACE OF CURB
BLOCK 14
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

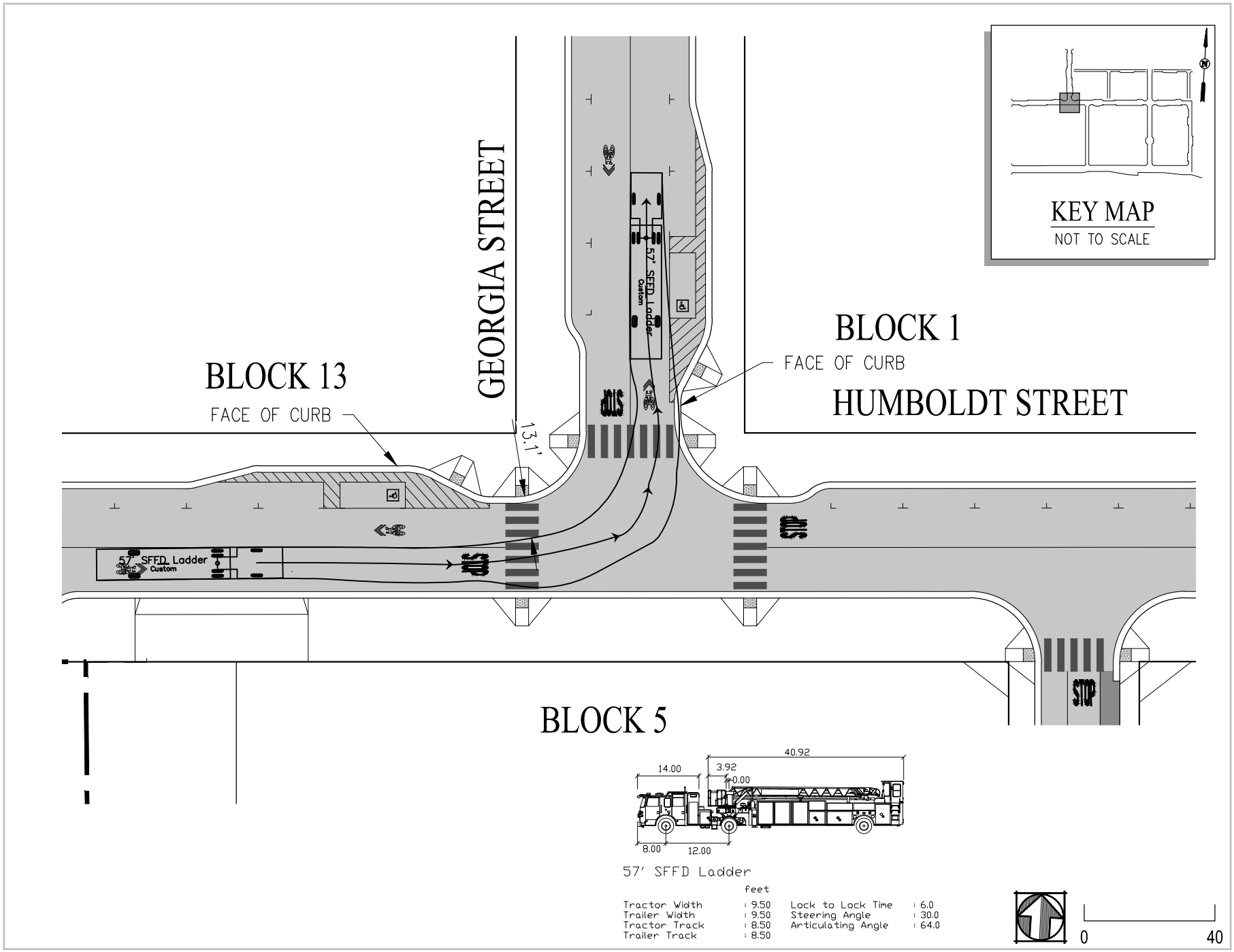

57' SFFD Ladder
Custom
11.4'
22ND STREET
FACE OF CURB
STEP
ILLINOIS STREET
BLOCK 13
26'
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

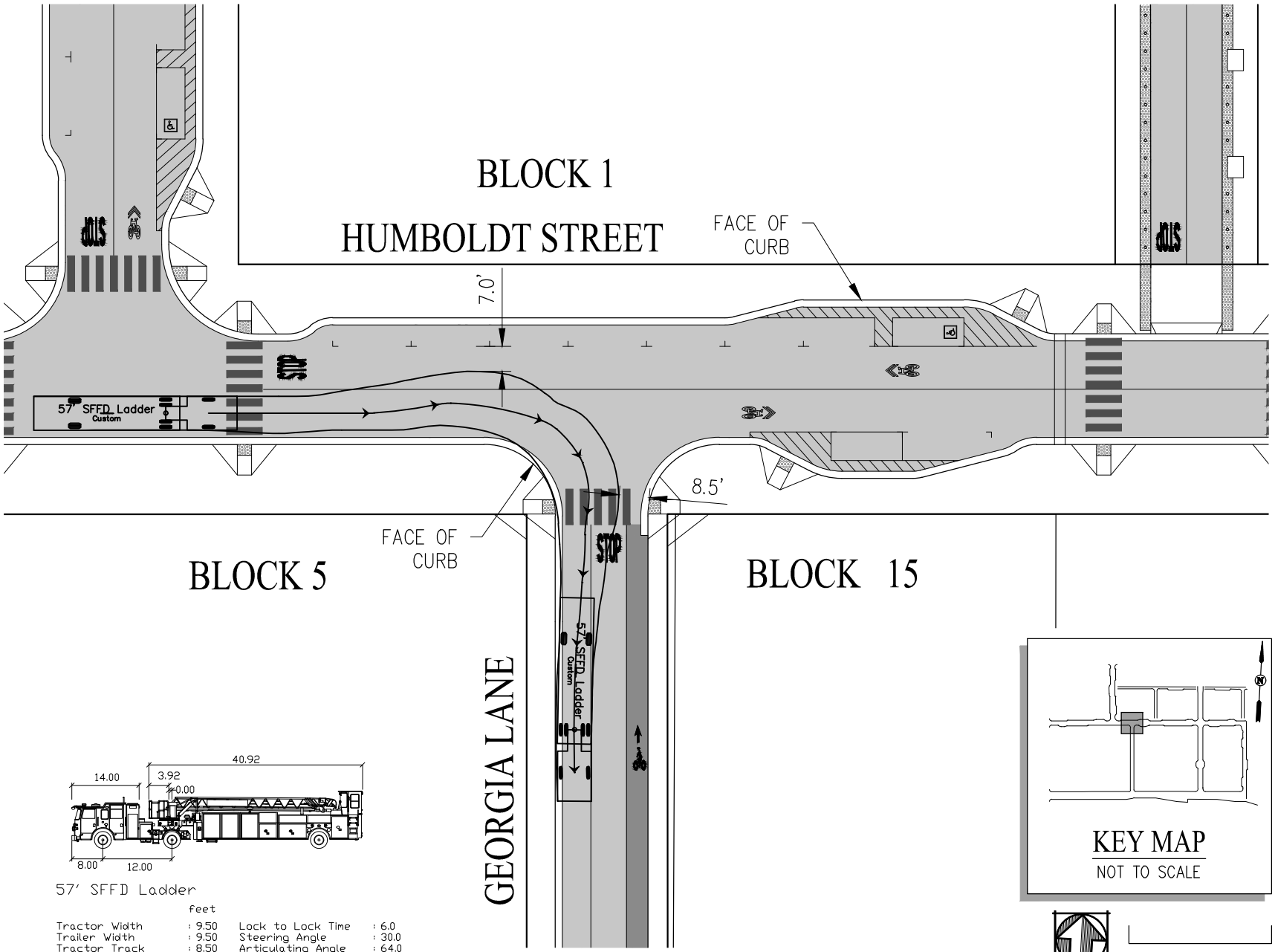

BLOCK 7
MARYLAND STREET
BLOCK 8
FACE OF CURB
MOUNTABLE CURB
57' SFFD Ladder Custom
UNOBSTRUCTED AREAS
POWER STATION PARK
POWER STATION PARK
BLOCK 11
BLOCK 12
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

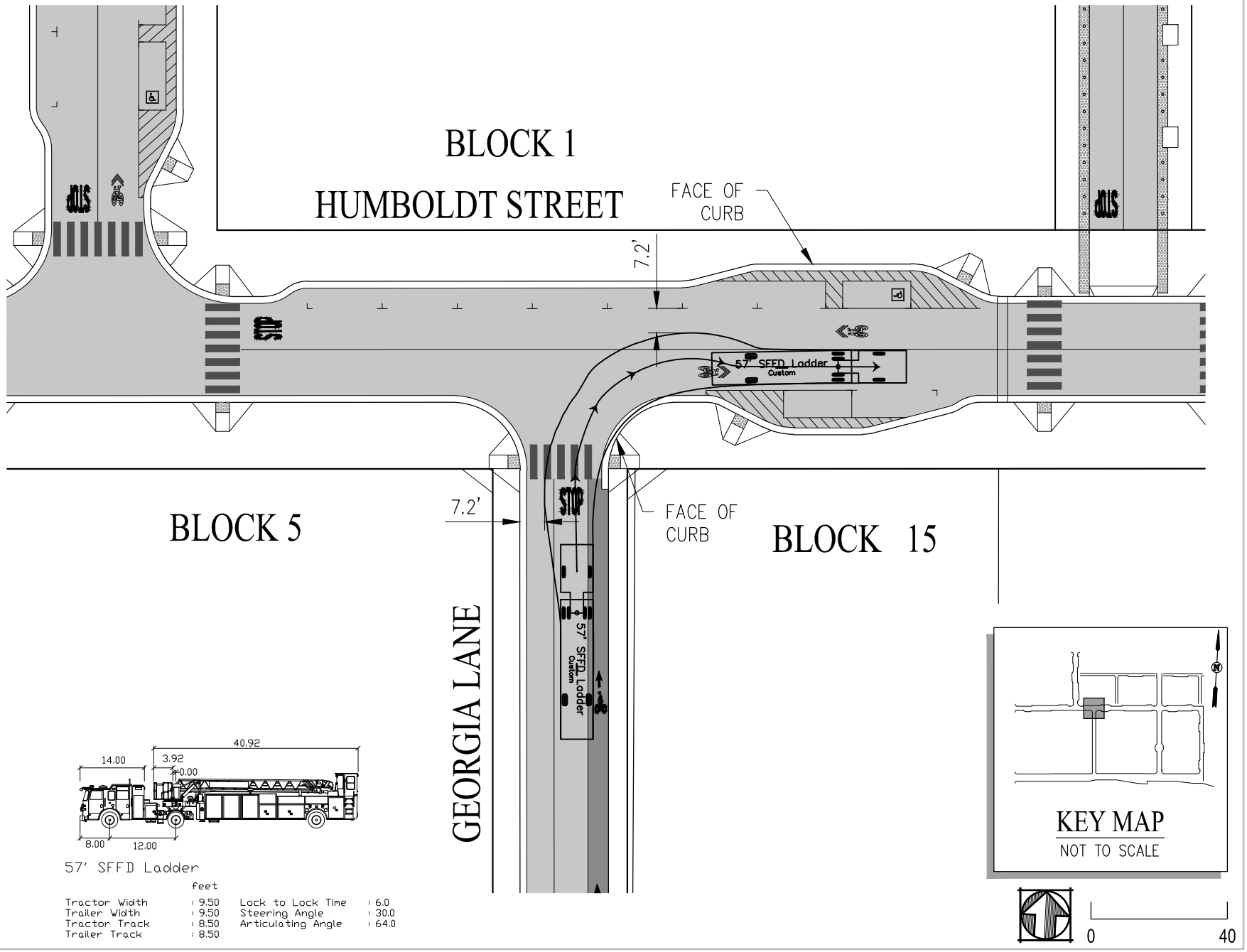

BLOCK 7
MARYLAND STREET
BLOCK 8
FACE OF CURB
MOUNTABLE CURB
57' SFFD Ladder
Custom
UNOBSTRUCTED AREAS
POWER STATION PARK
POWER STATION PARK
BLOCK 11
BLOCK 12
57' SFFD Ladder
Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

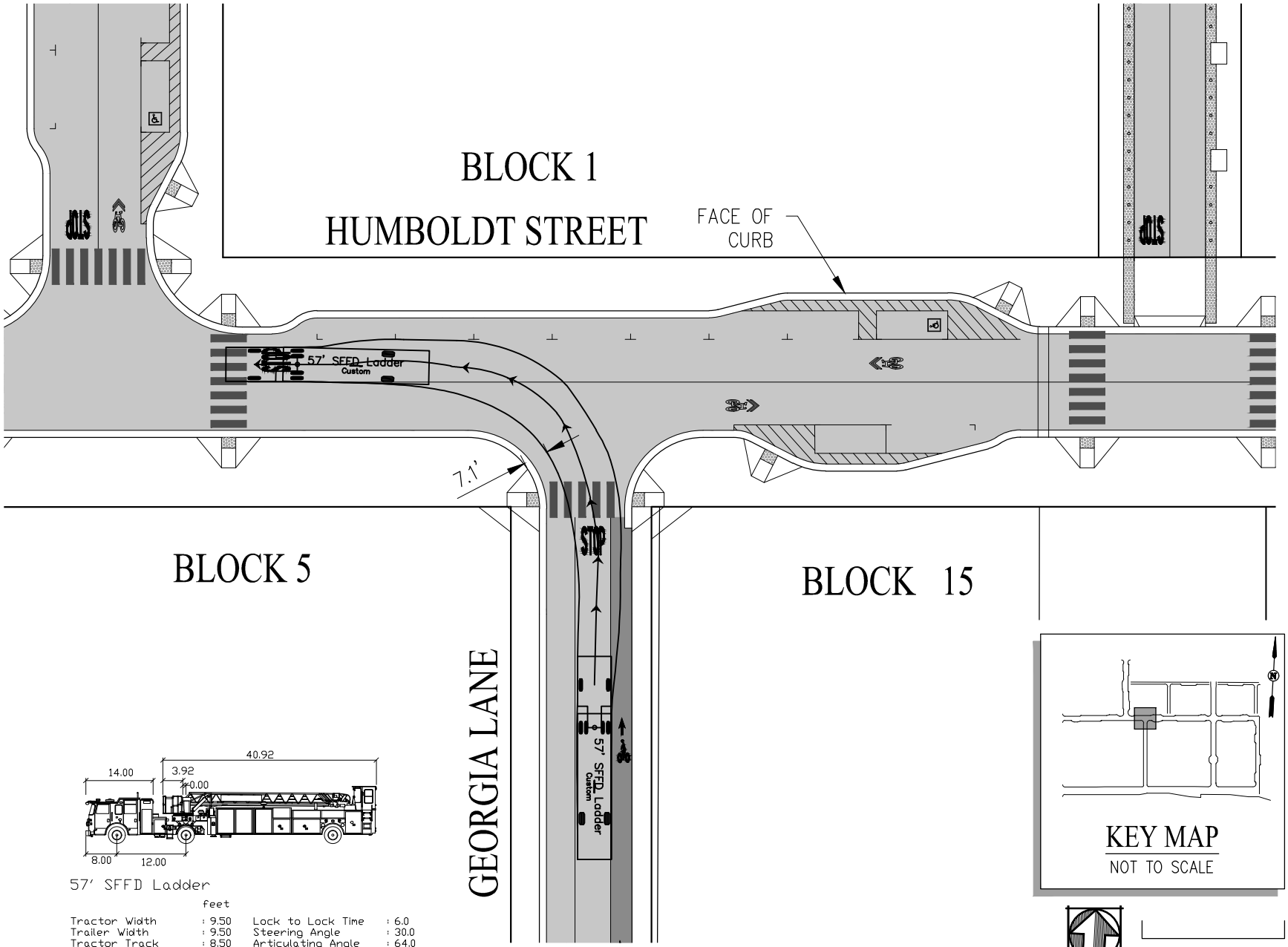

BLOCK 7
MARYLAND STREET
BLOCK 8
57' SFFD Ladder Custom
FACE OF CURB
10.5'
MOUNTABLE CURB
57' SFFD Ladder Custom
UNOBSTRUCTED AREAS
57' SFFD Ladder Custom
POWER STATION PARK
POWER STATION PARK
BLOCK 11
BLOCK 12
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

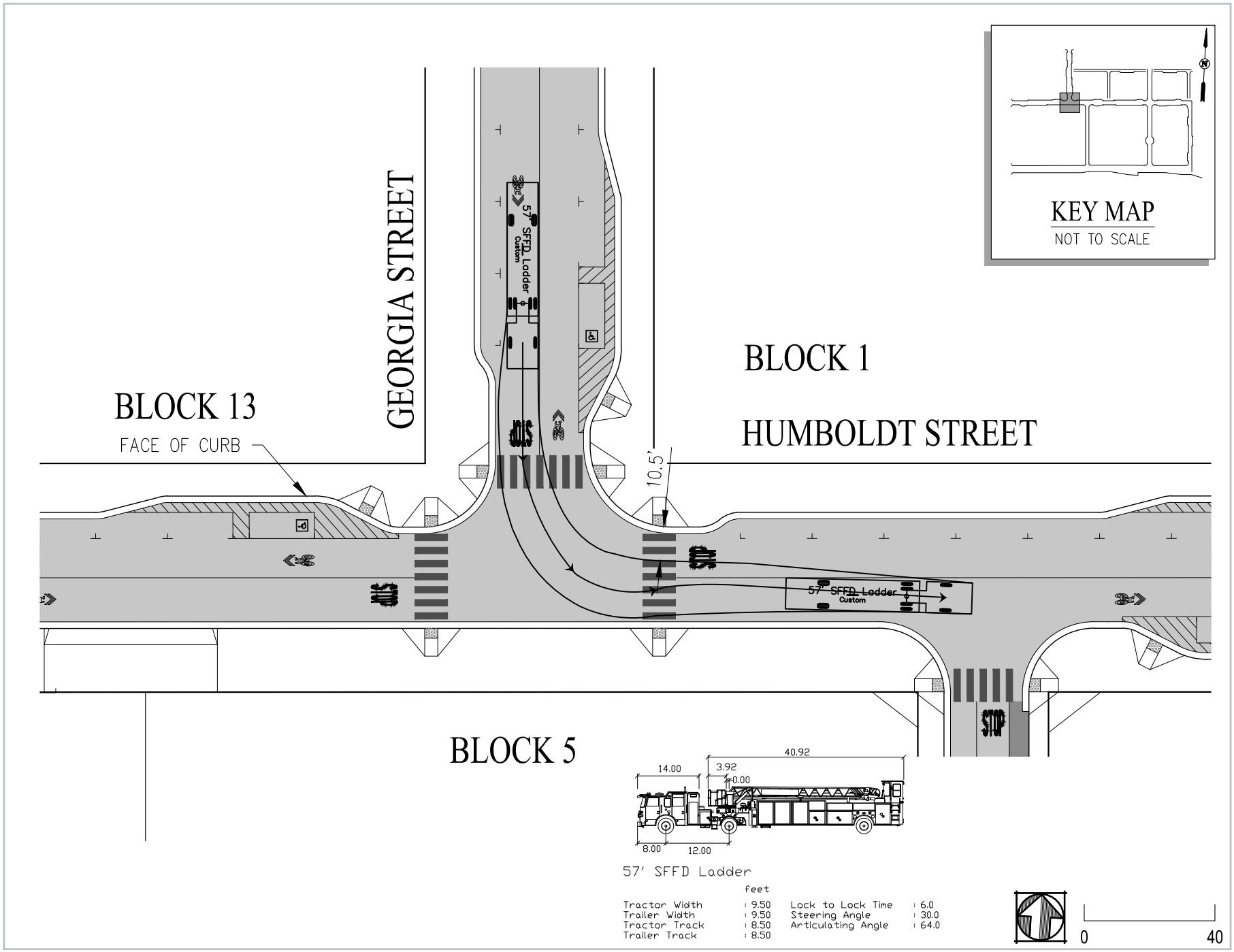

BLOCK 7
MARYLAND STREET
BLOCK 8
57' SFFD Ladder
Custom
FACE OF
CURB
10.5'
MOUNTABLE
CURB
57' SFFD Ladder
Custom
UNOBSTRUCTED
AREAS
POWER STATION
PARK
POWER STATION
PARK
BLOCK 11
BLOCK 12
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

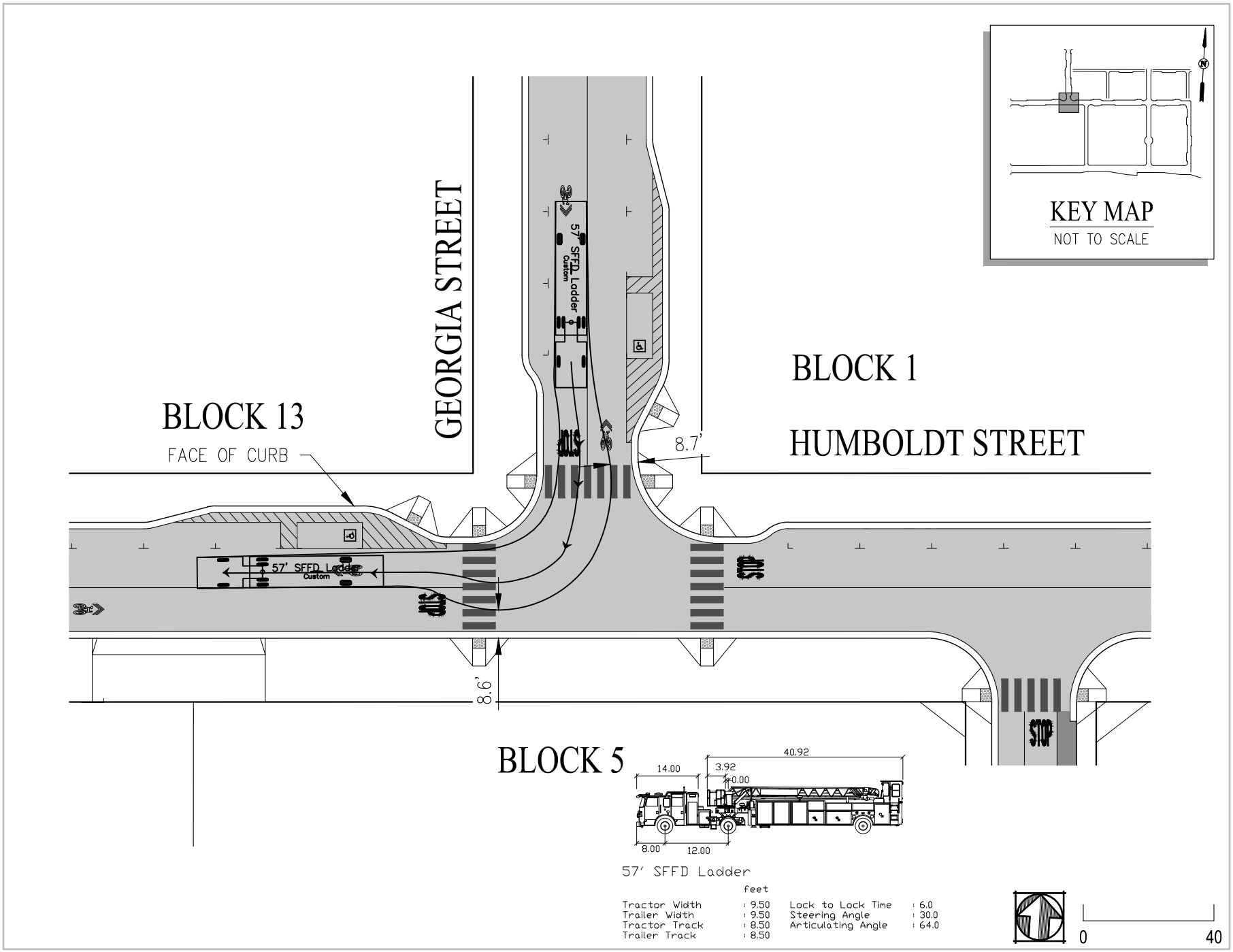

KEY MAP
NOT TO SCALE
GEORGIA STREET
BLOCK 13
FACE OF CURB
BLOCK 1
FACE OF CURB
HUMBOLDT STREET
13.1'
57' SFFD Ladder
Custom
STOP
BLOCK 5
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
0
40

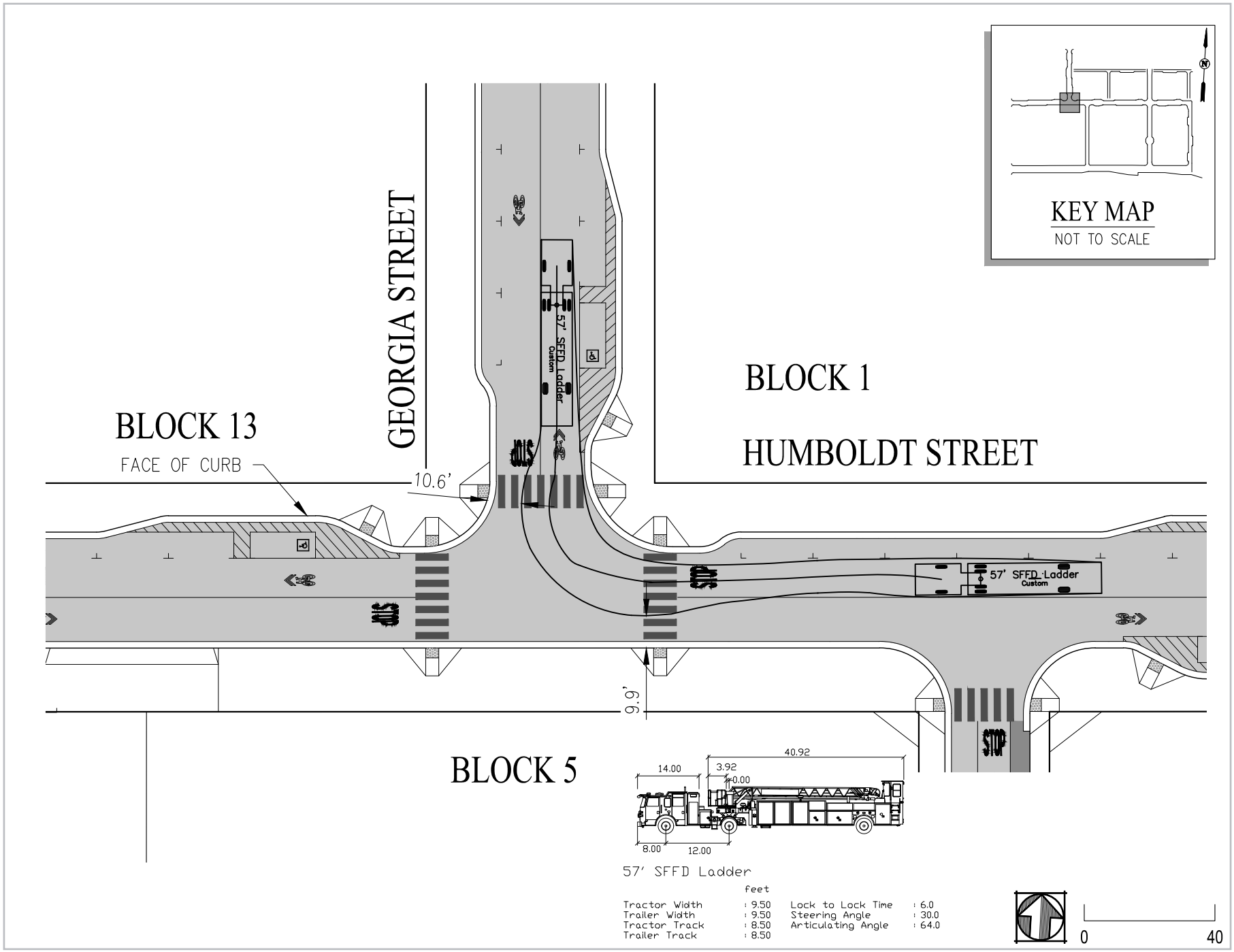

BLOCK 1
HUMBOLDT STREET
FACE OF CURB
7.0'
57' SFFD Ladder
Custom
8.5'
FACE OF CURB
BLOCK 5
BLOCK 15
GEORGIA LANE
57' SFFD Ladder
Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

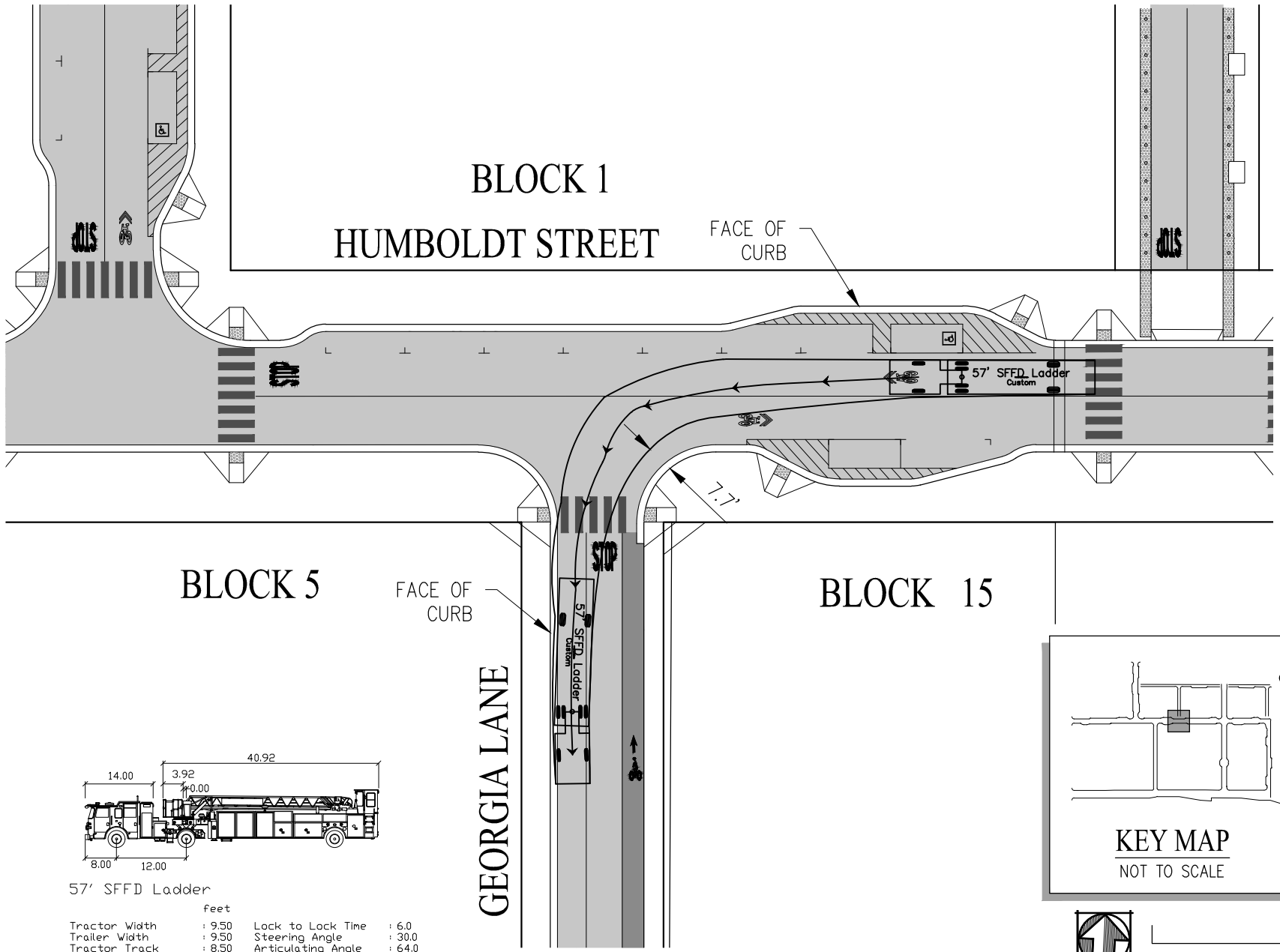

BLOCK 1
HUMBOLDT STREET
FACE OF CURB
7.2'
57' SFFD Ladder
Custom
BLOCK 5
7.2'
FACE OF CURB
BLOCK 15
GEORGIA LANE
57' SFFD Ladder
Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

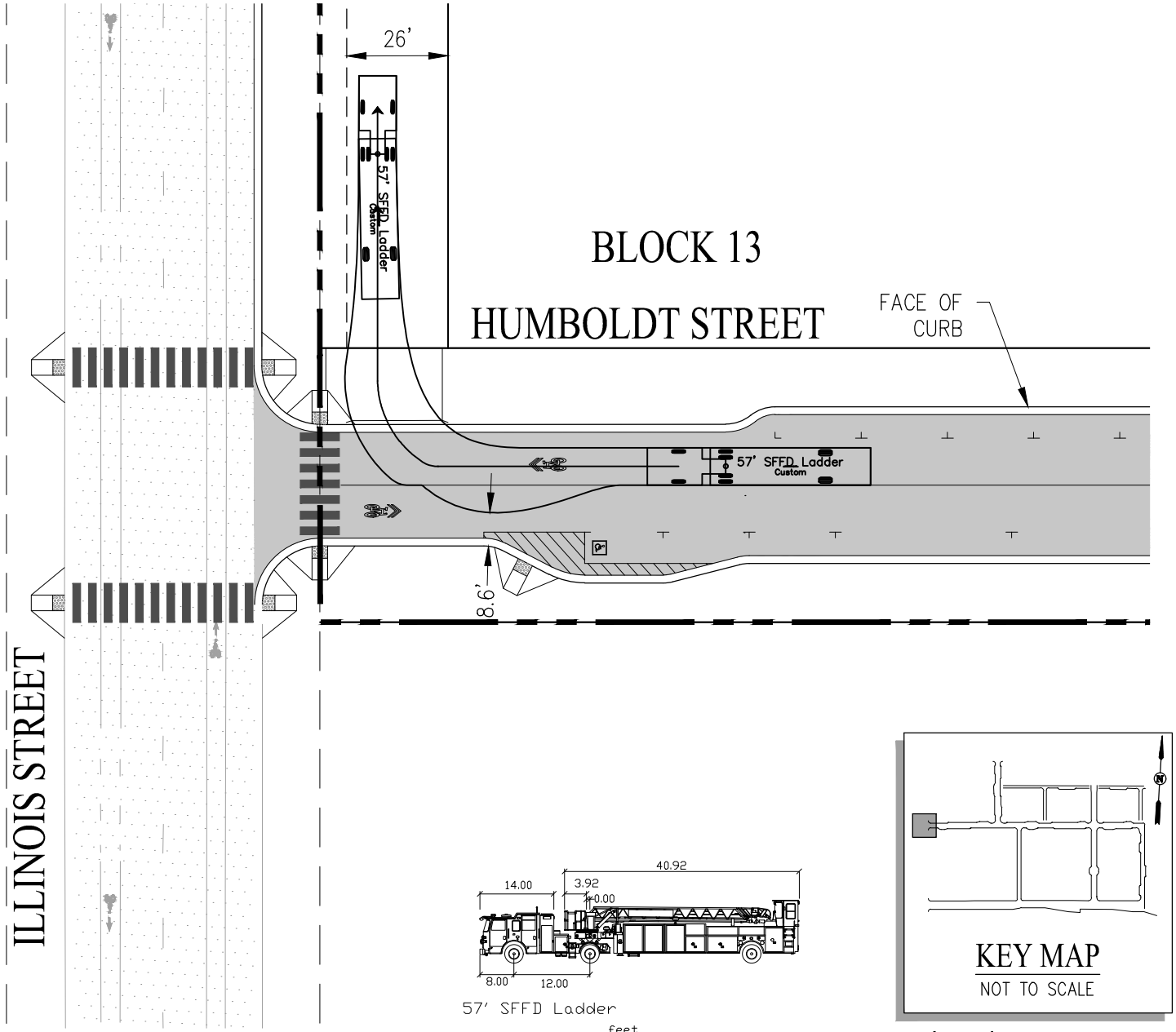

BLOCK 1
HUMBOLDT STREET
FACE OF CURB
57' SFFD Ladder
Custom
7.1'
STOP
BLOCK 5
BLOCK 15
GEORGIA LANE
57' SFFD Ladder
Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

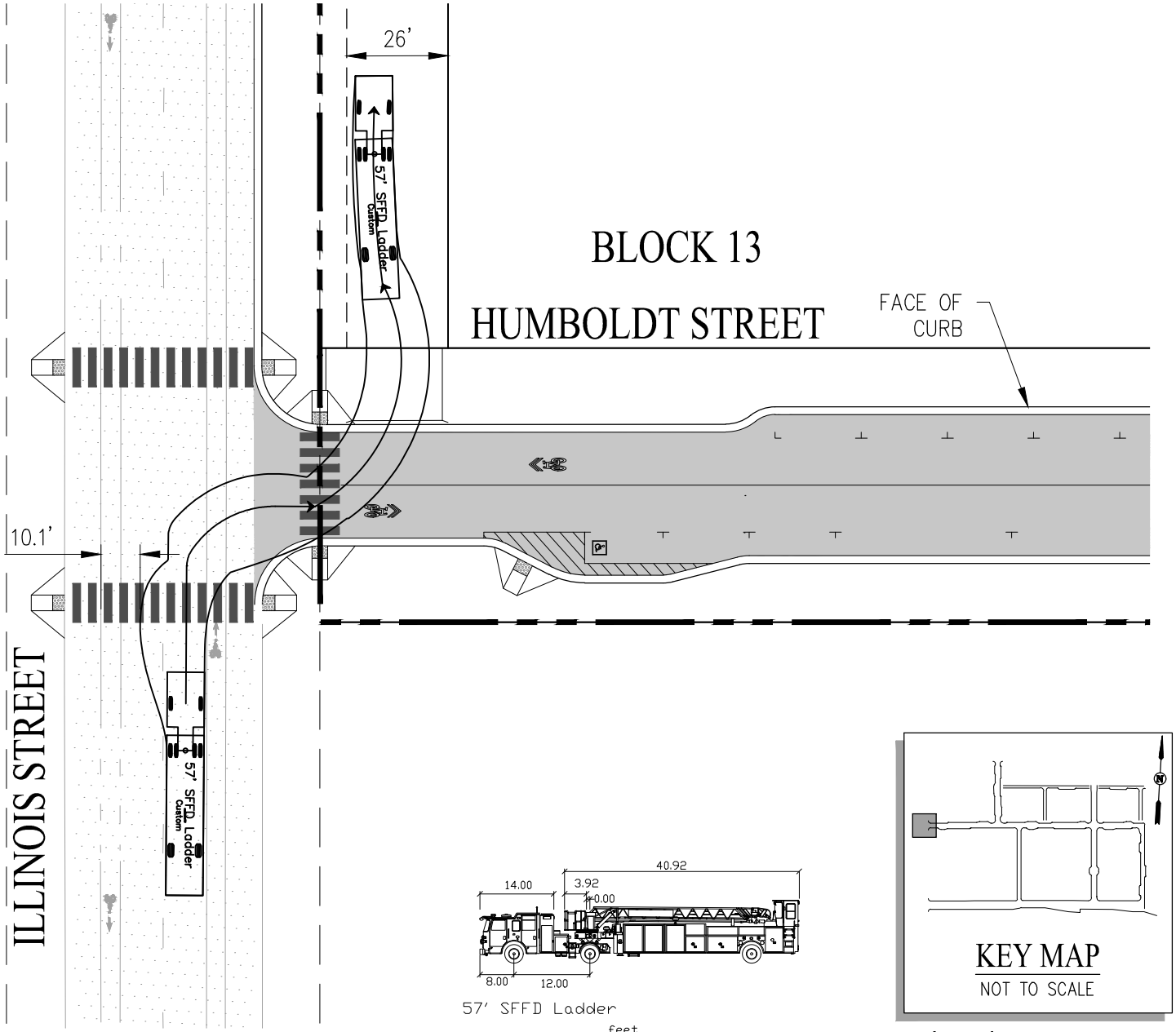

KEY MAP
NOT TO SCALE
GEORGIA STREET
BLOCK 13
FACE OF CURB
BLOCK 1
HUMBOLDT STREET
BLOCK 5
10.5'
57' SFFD Ladder
Custom
57' SFFD Ladder
Custom
STOP
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
0
40

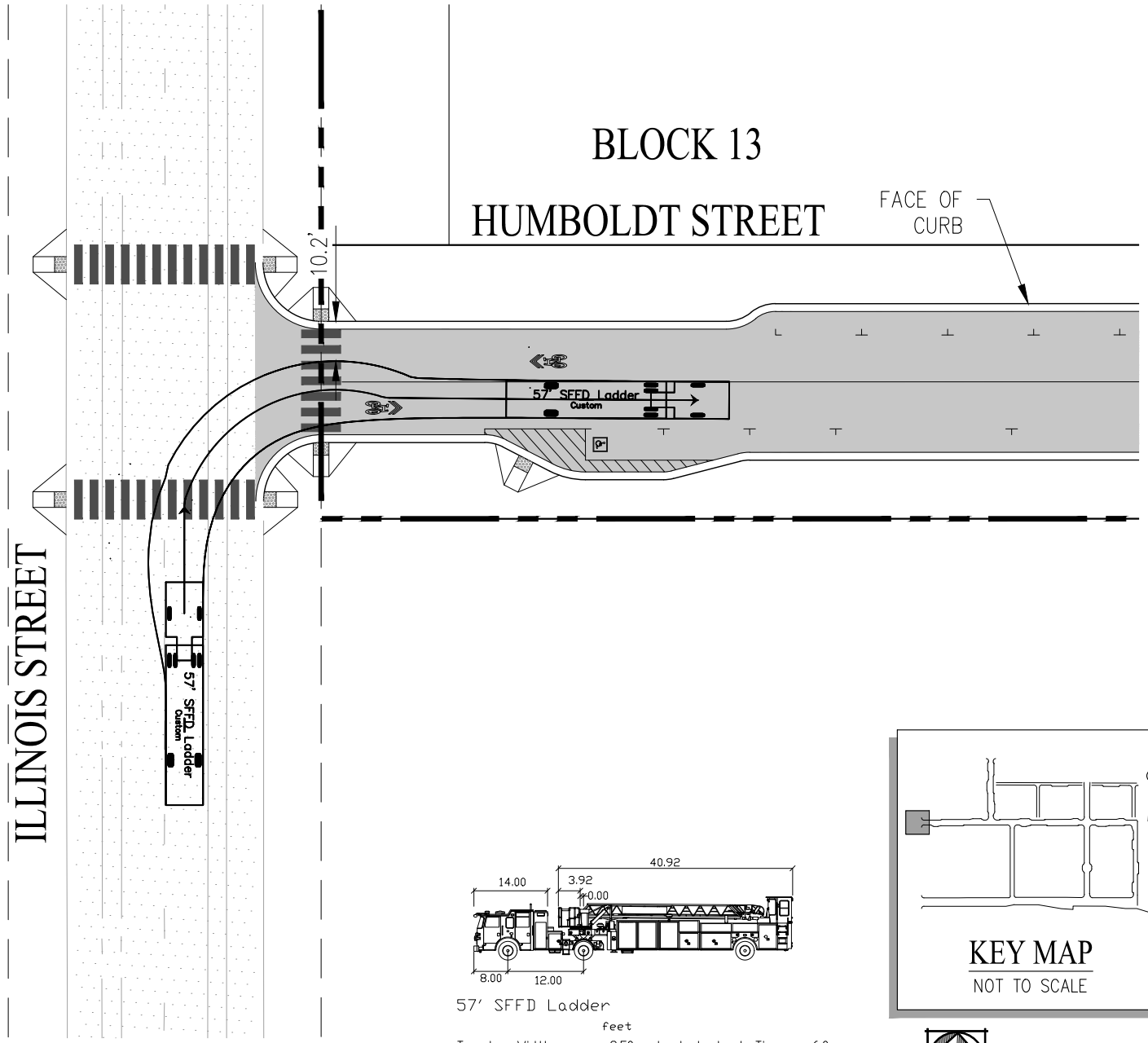

KEY MAP
NOT TO SCALE
GEORGIA STREET
BLOCK 13
FACE OF CURB
BLOCK 1
HUMBOLDT STREET
8.7'
8.6'
57' SFFD Ladder
Custom
BLOCK 5
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
0
40

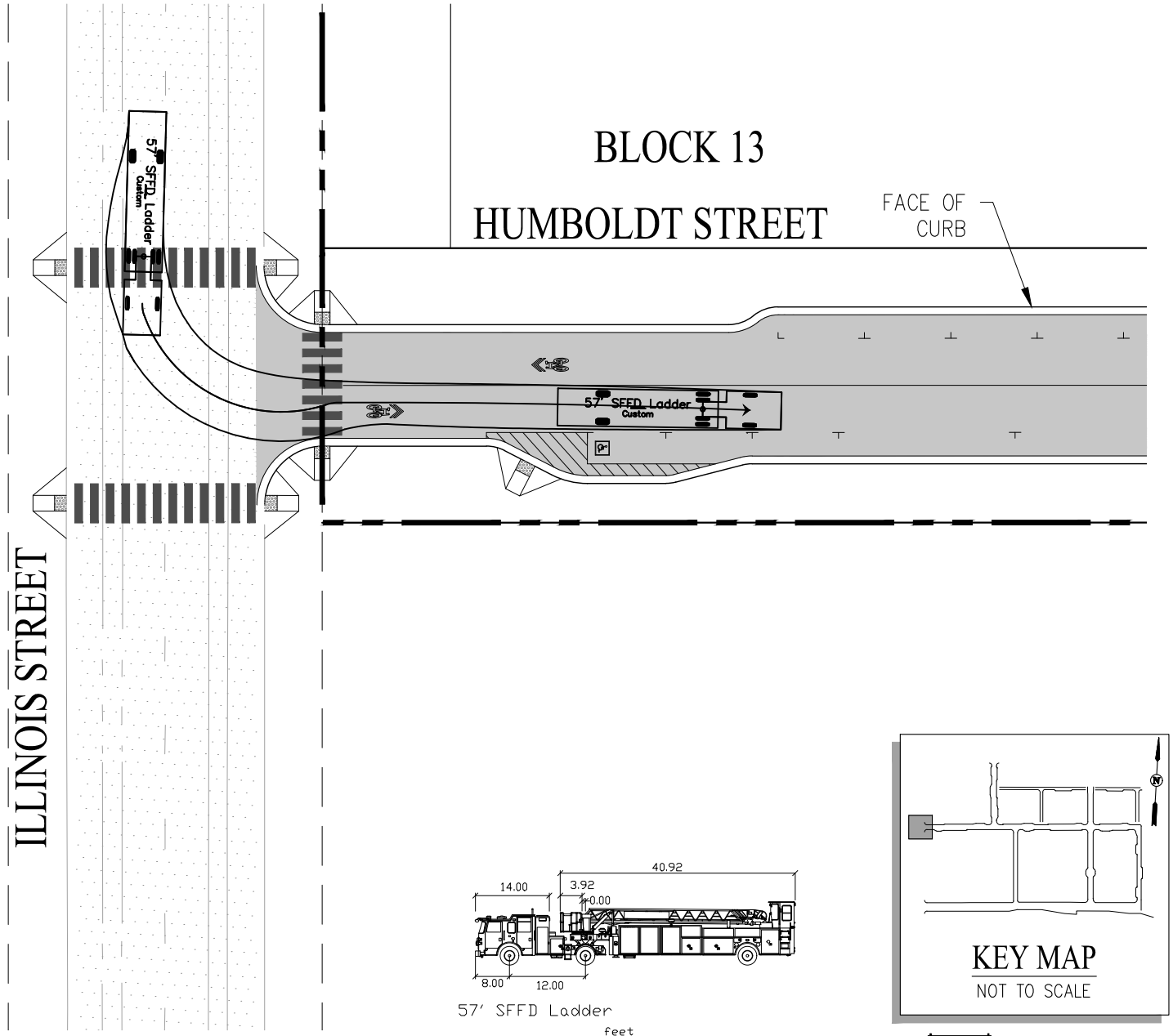

KEY MAP
NOT TO SCALE
GEORGIA STREET
BLOCK 13
FACE OF CURB
10.6'
BLOCK 1
HUMBOLDT STREET
57' SFFD Ladder
Custom
9.9'
BLOCK 5
STOP
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
0
40

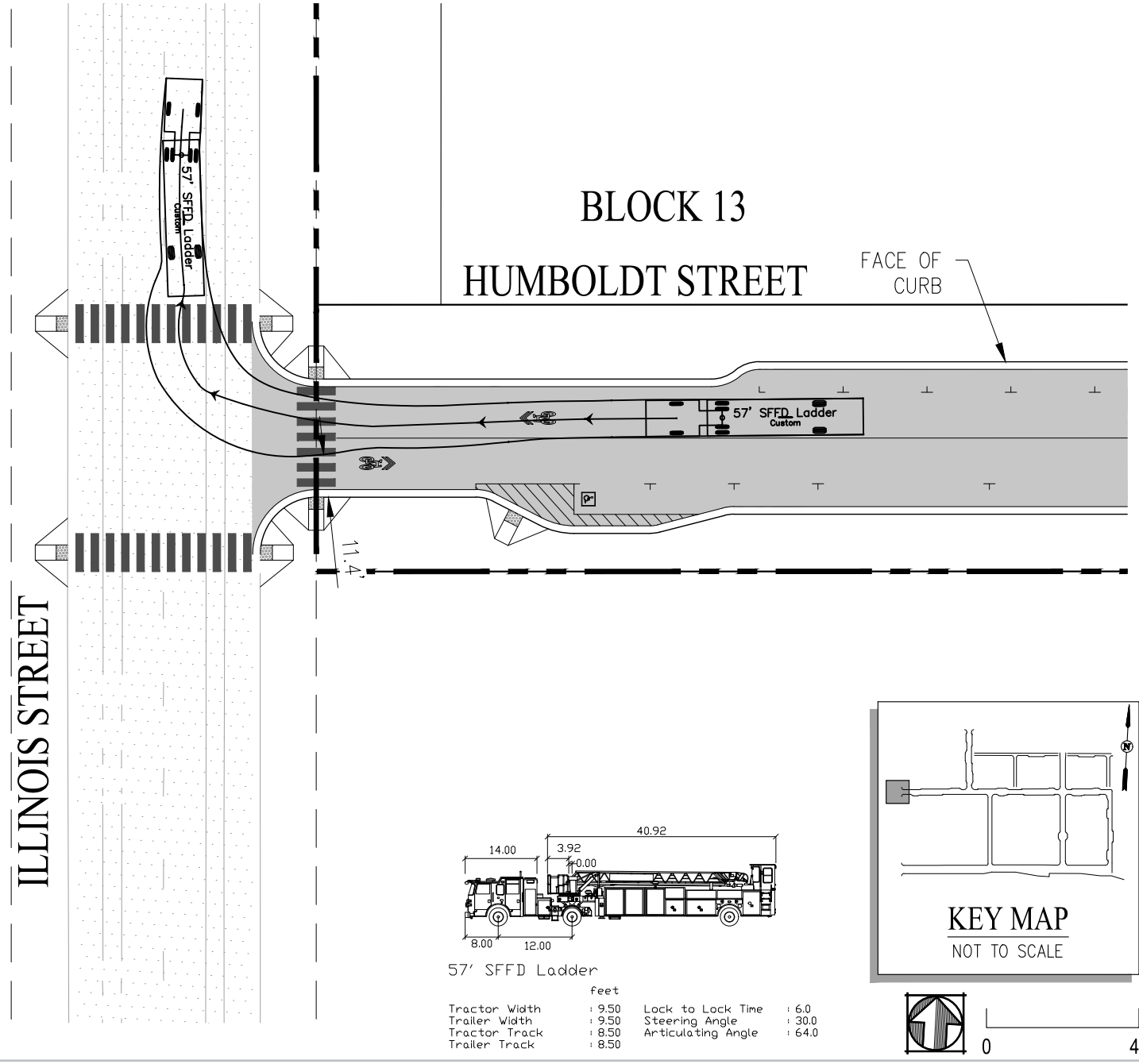

BLOCK 1
HUMBOLDT STREET
FACE OF CURB
57' SFFD Ladder
Custom
7.7'
STOP
BLOCK 5
FACE OF CURB
BLOCK 15
GEORGIA LANE
57' SFFD Ladder
Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

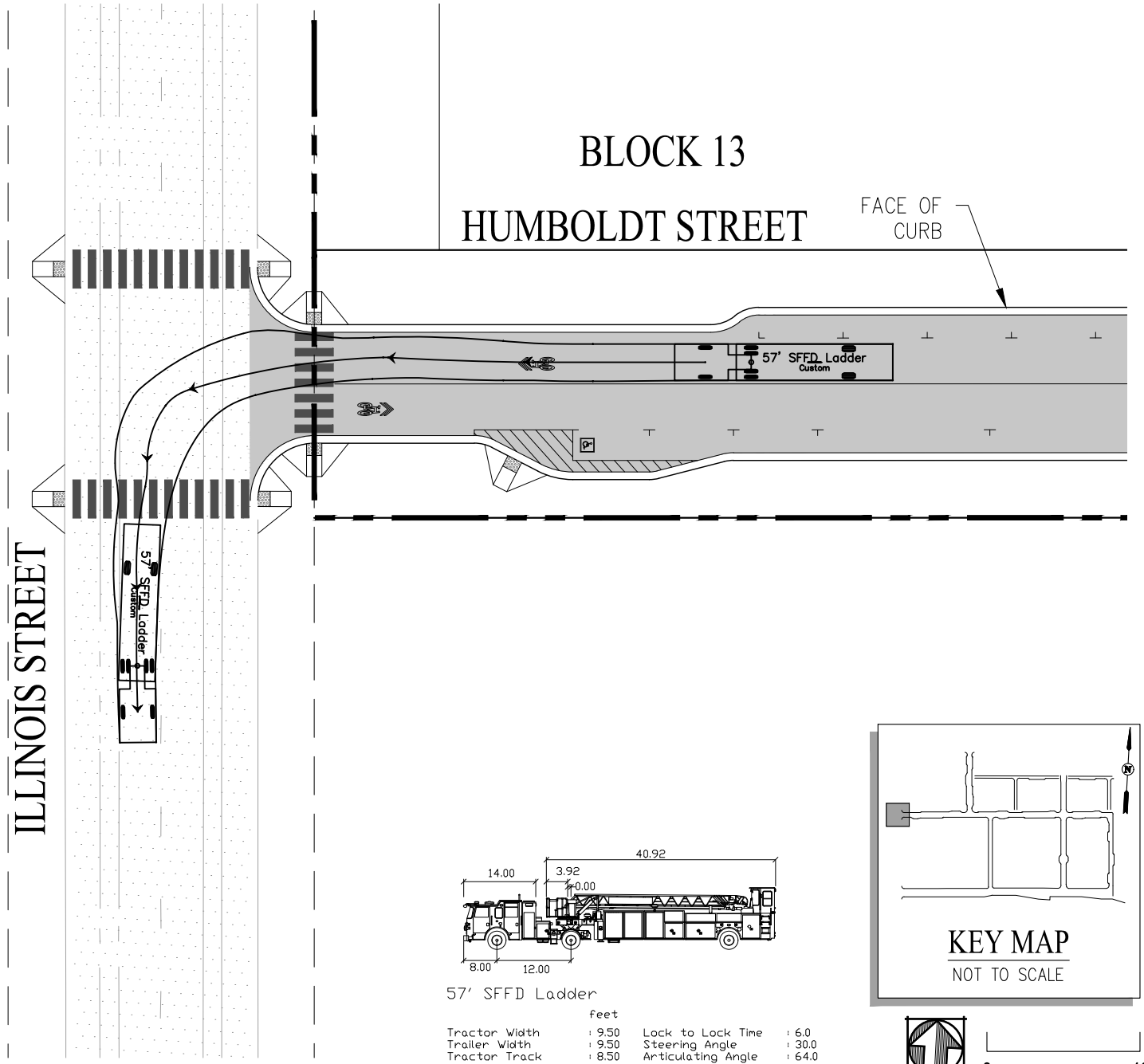

26'
57' SFFD Ladder
Custom
BLOCK 13
HUMBOLDT STREET
FACE OF
CURB
57' SFFD Ladder
Custom
8.6'
ILLINOIS STREET
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

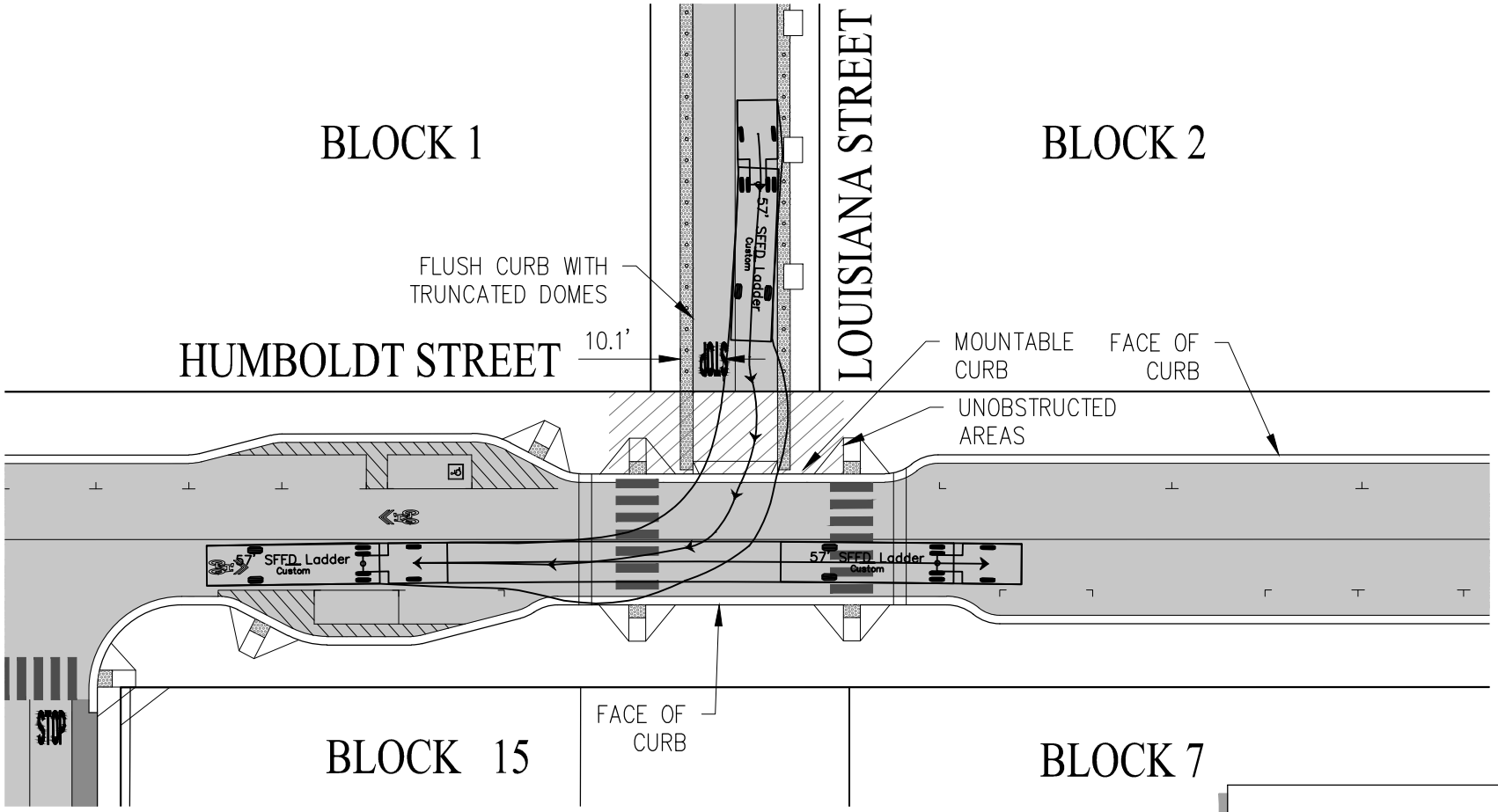

26'
57' SFFD Ladder
Custom
BLOCK 13
HUMBOLDT STREET
FACE OF
CURB
10.1'
ILLINOIS STREET
57' SFFD Ladder
Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

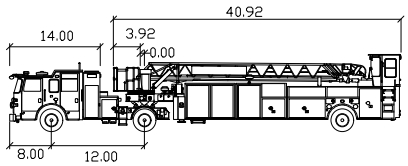

BLOCK 13
HUMBOLDT STREET
FACE OF CURB
10.2'
ILLINOIS STREET
57' SFFD Ladder
Custom
57' SFFD Ladder
Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40


BLOCK 13
HUMBOLDT STREET
FACE OF CURB
ILLINOIS STREET
57' SFFD Ladder Custom
57' SFFD Ladder Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40


BLOCK 13
HUMBOLDT STREET
FACE OF CURB
ILLINOIS STREET
57' SFFD Ladder
Custom
57' SFFD Ladder
Custom
11.4'
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

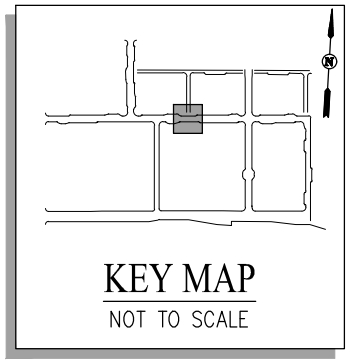

BLOCK 13
HUMBOLDT STREET
FACE OF CURB
ILLINOIS STREET
57' SFFD Ladder
Custom
57' SFFD Ladder
Custom
40.92
14.00
3.92
0.00
8.00
12.00
57' SFFD Ladder
feet
Tractor Width : 9.50
Trailer Width : 9.50
Tractor Track : 8.50
Trailer Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 30.0
Articulating Angle : 64.0
KEY MAP
NOT TO SCALE
0
40

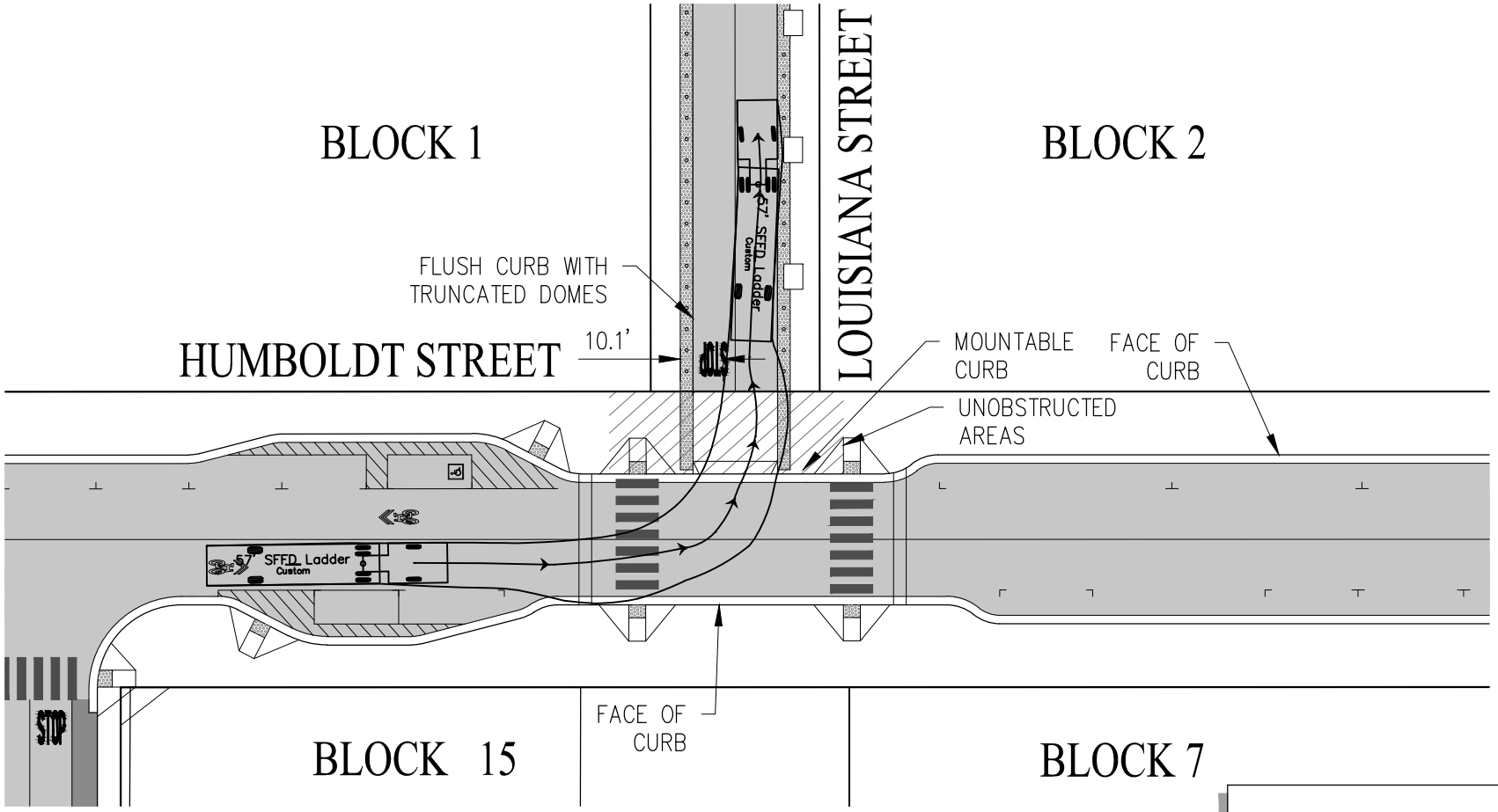


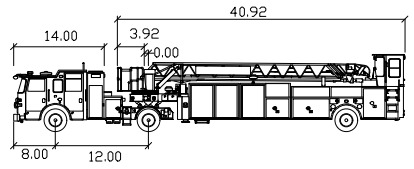


57' SFFD Ladder

	feet		
Tractor Width	: 9.50	Lock to Lock Time	: 6.0
Trailer Width	: 9.50	Steering Angle	: 30.0
Tractor Track	: 8.50	Articulating Angle	: 64.0
Trailer Track	: 8.50		

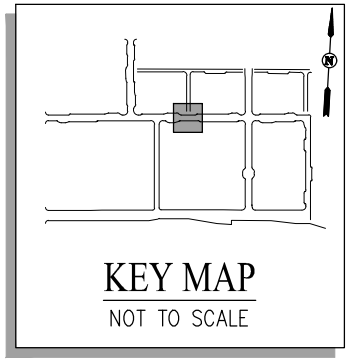




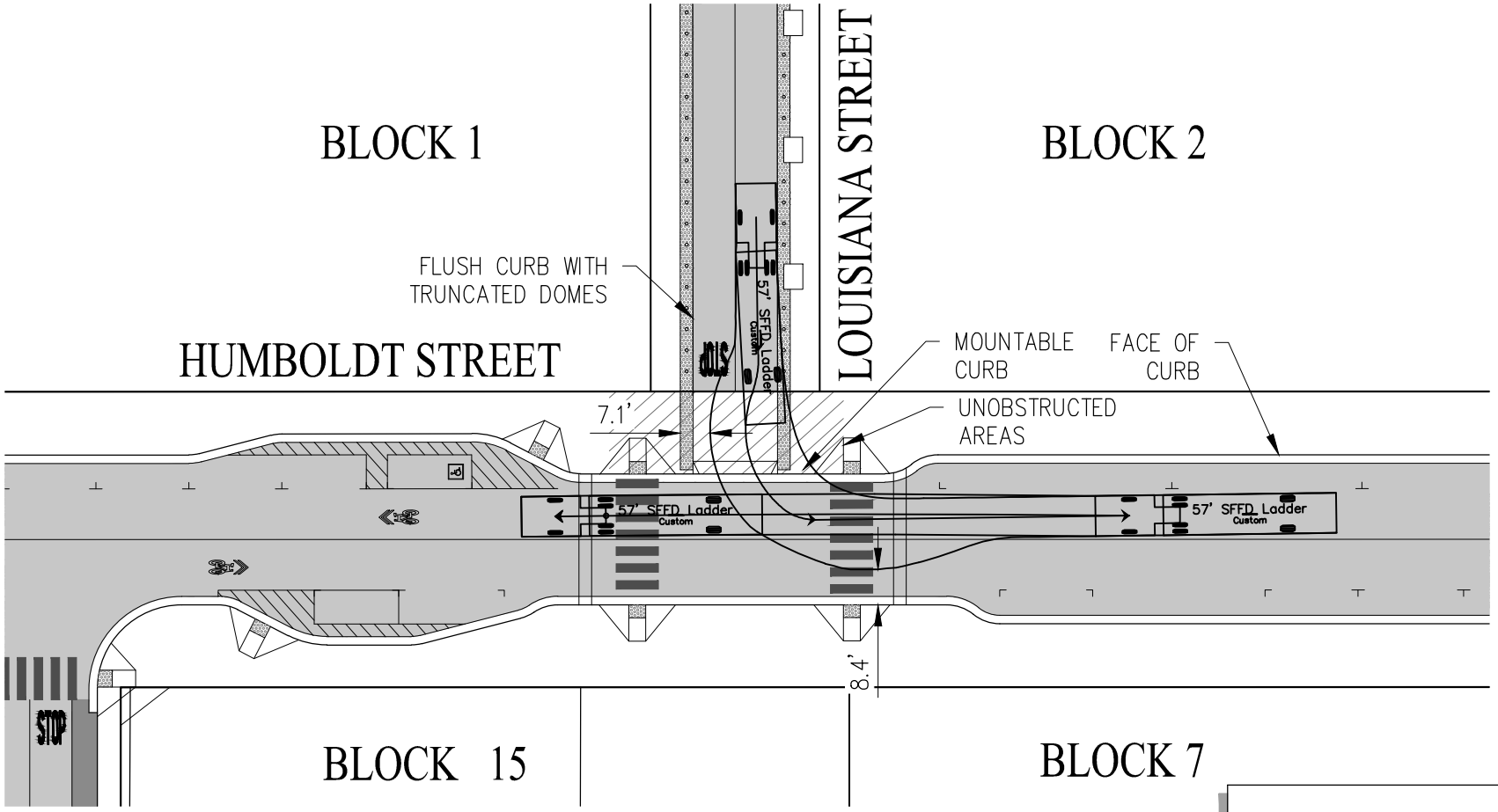


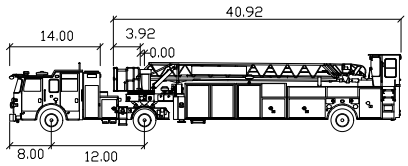
57' SFFD Ladder

	feet		
Tractor Width	: 9.50	Lock to Lock Time	: 6.0
Trailer Width	: 9.50	Steering Angle	: 30.0
Tractor Track	: 8.50	Articulating Angle	: 64.0
Trailer Track	: 8.50		



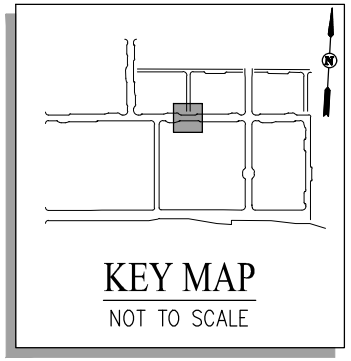
0 40



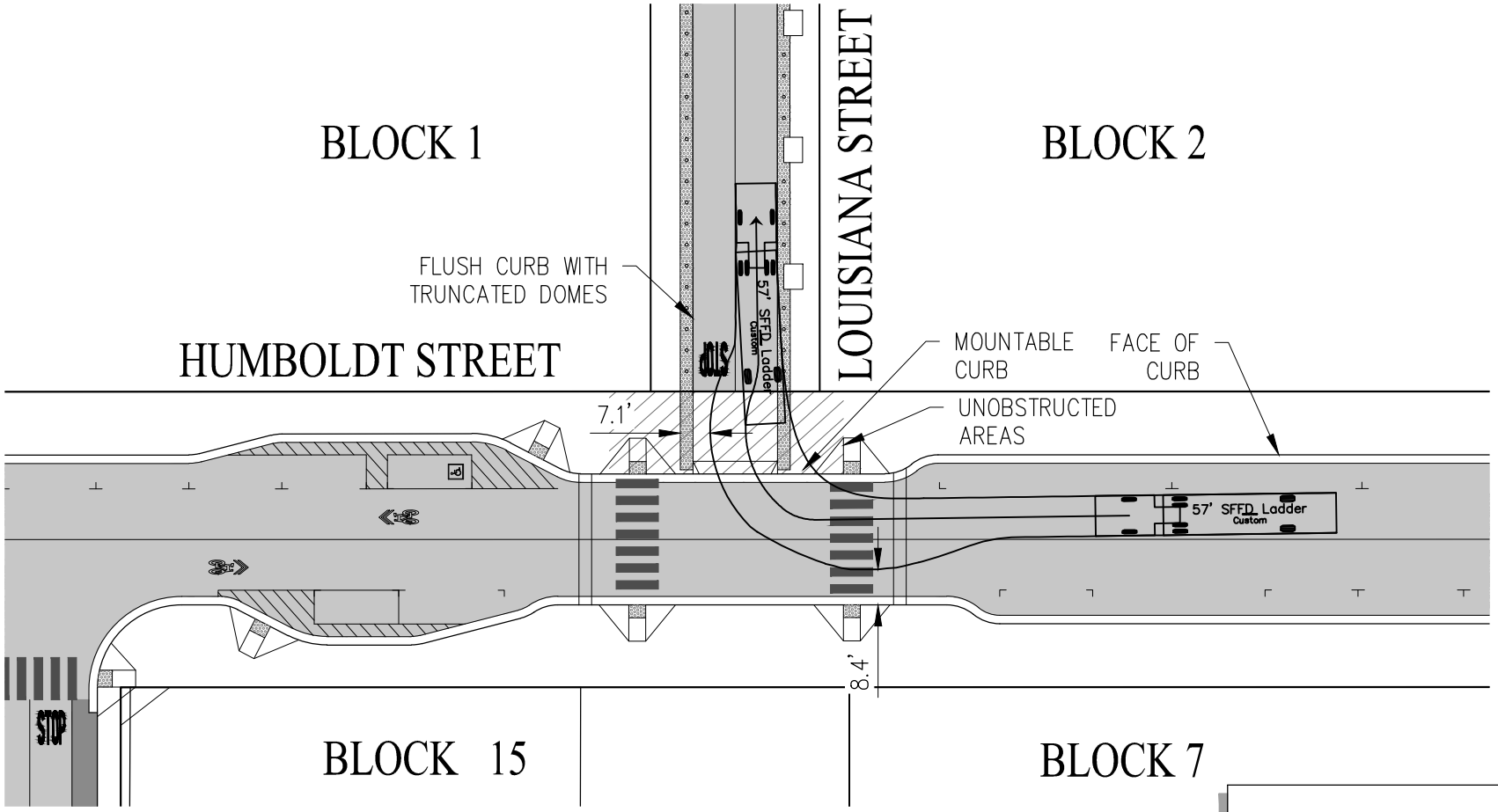


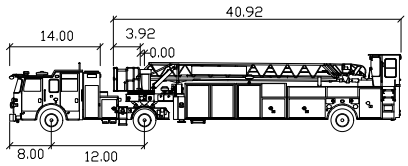
57' SFFD Ladder

	feet		
Tractor Width	: 9.50	Lock to Lock Time	: 6.0
Trailer Width	: 9.50	Steering Angle	: 30.0
Tractor Track	: 8.50	Articulating Angle	: 64.0
Trailer Track	: 8.50		



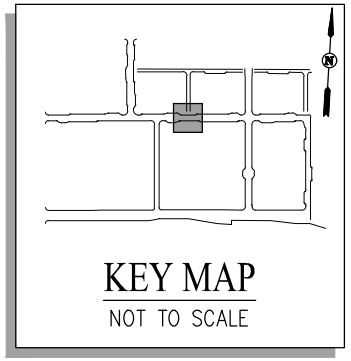
0 40

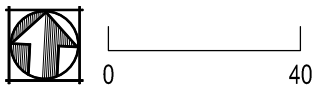


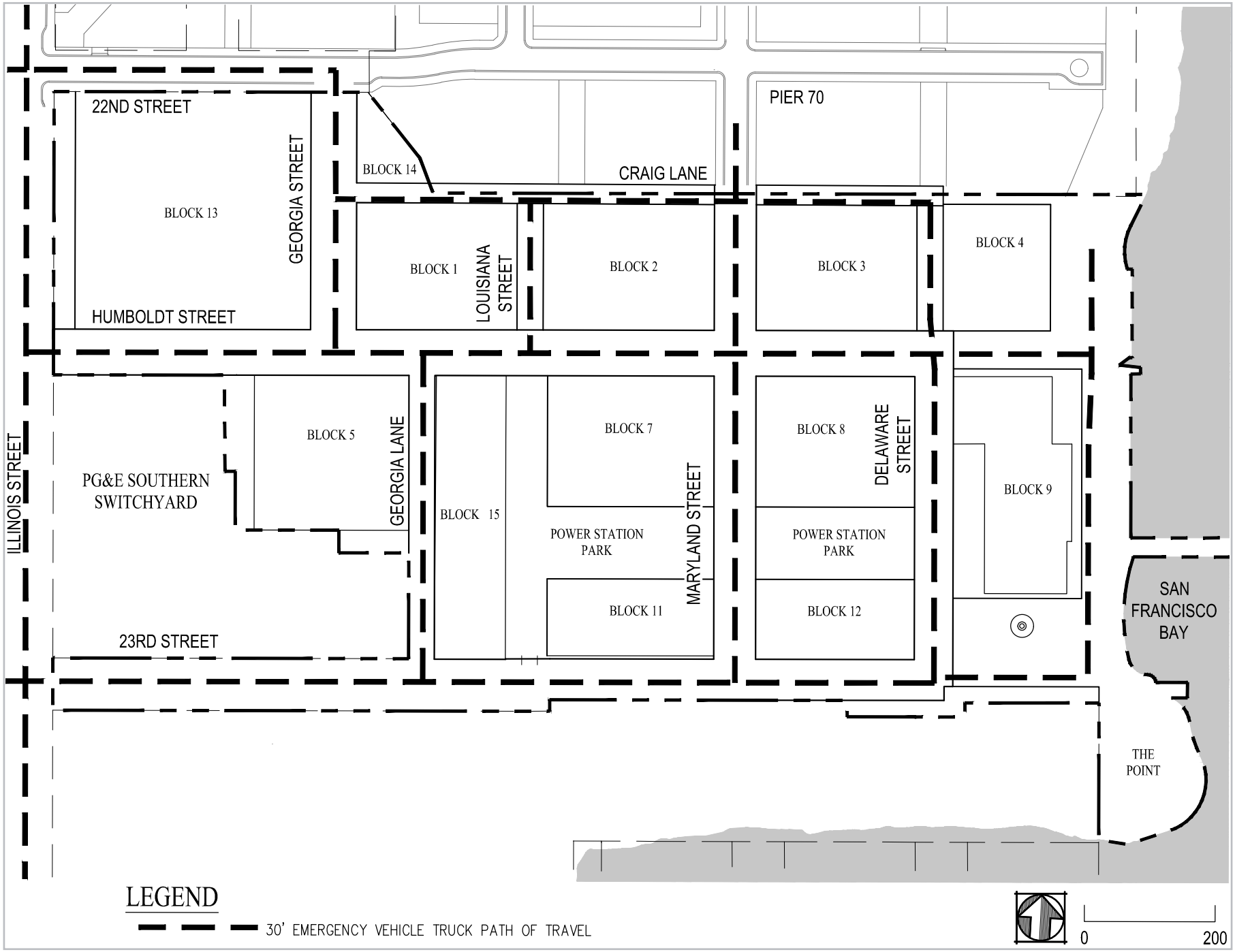


57' SFFD Ladder

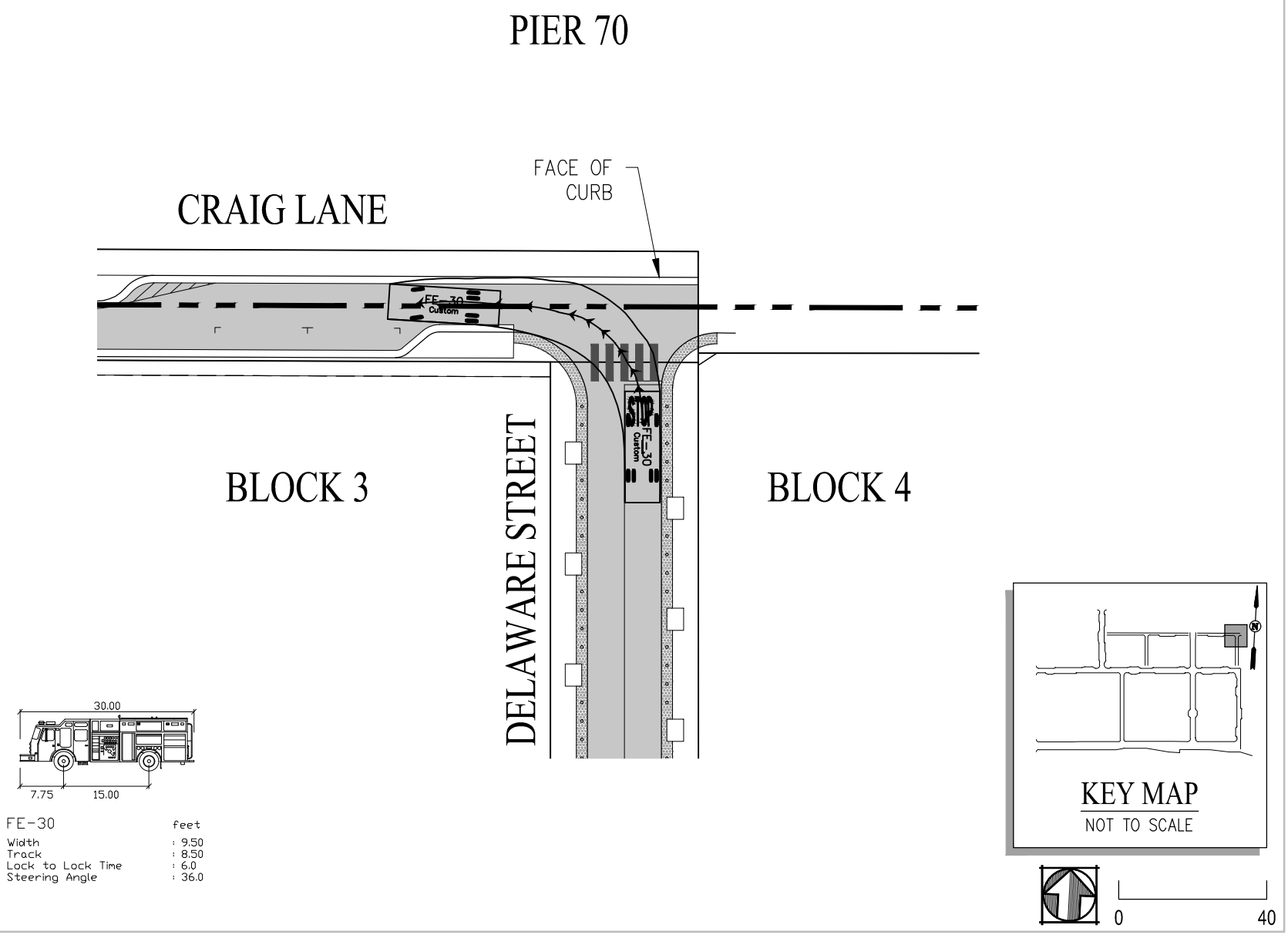
	feet		
Tractor Width	: 9.50	Lock to Lock Time	: 6.0
Trailer Width	: 9.50	Steering Angle	: 30.0
Tractor Track	: 8.50	Articulating Angle	: 64.0
Trailer Track	: 8.50		







Appendix G Fire Truck Turning Movements - FE 30


PIER 70
FACE OF CURB
CRAIG LANE
FE-30 Custom
STOP
FE-30 Custom
BLOCK 3
DELAWARE STREET
BLOCK 4
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
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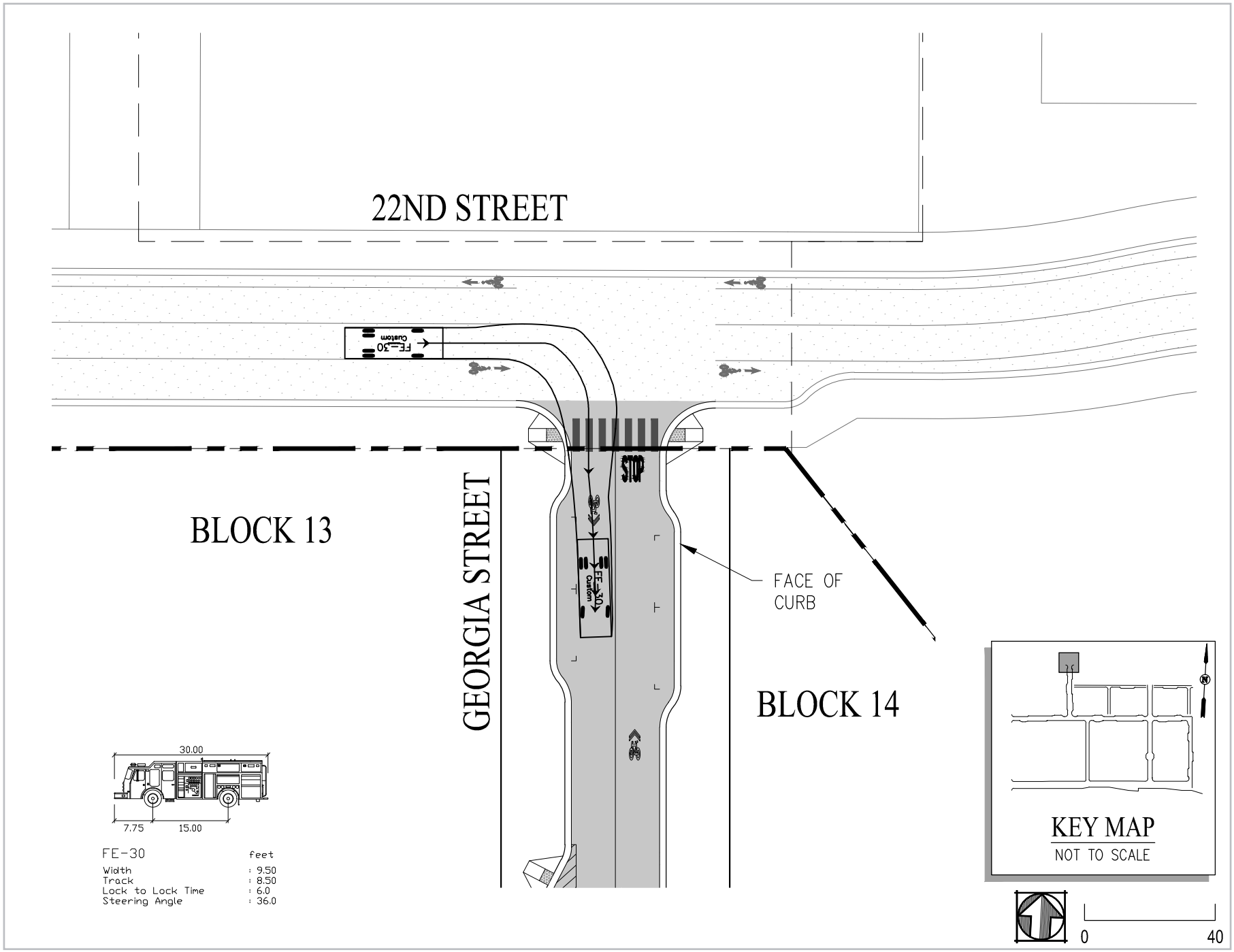
22ND STREET
BLOCK 13
GEORGIA STREET
BLOCK 14
FACE OF CURB
STOP
FE-30 Custom
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
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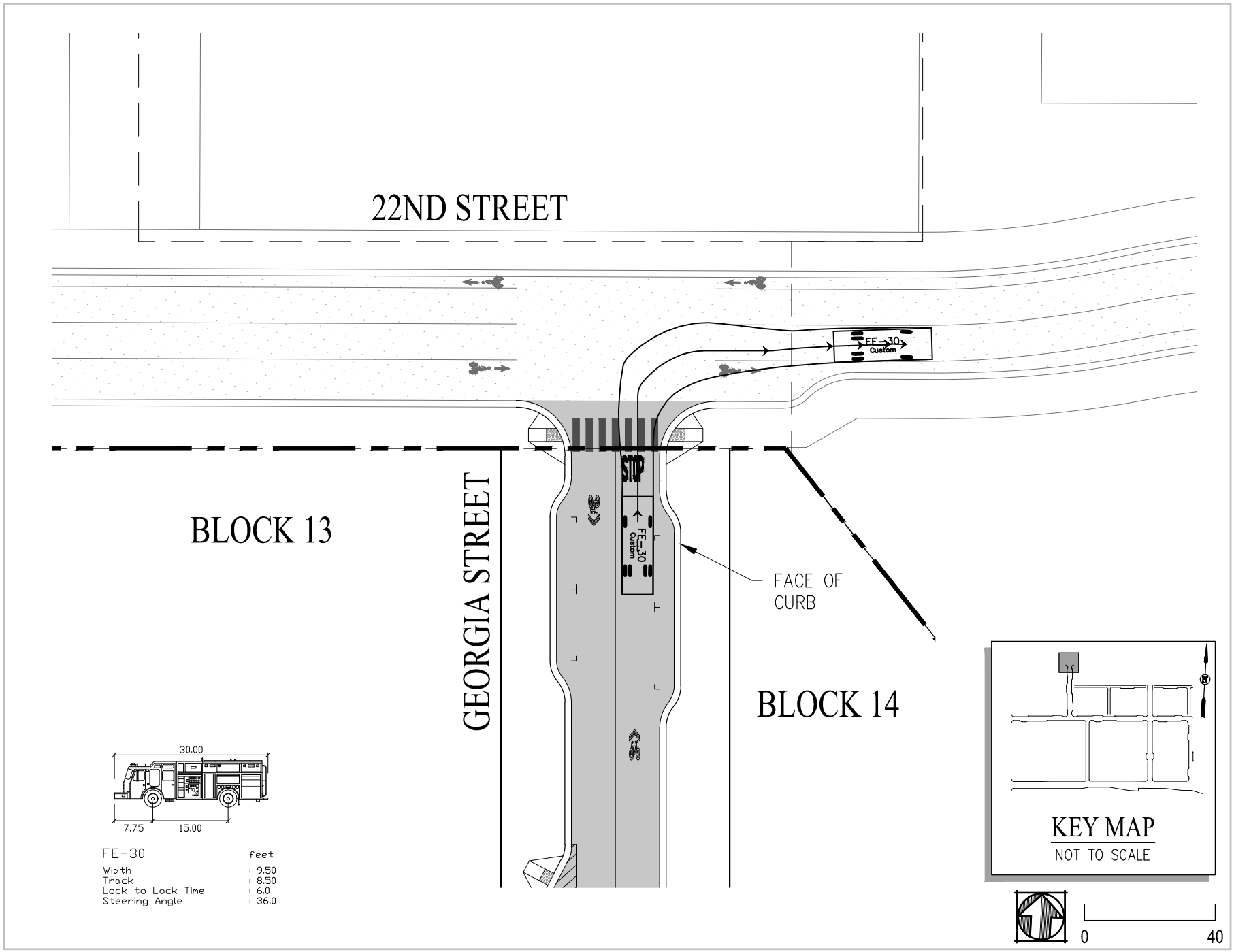
22ND STREET
BLOCK 13
GEORGIA STREET
BLOCK 14
FACE OF CURB
FE-30 Custom
FE-30 Custom
STOP
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
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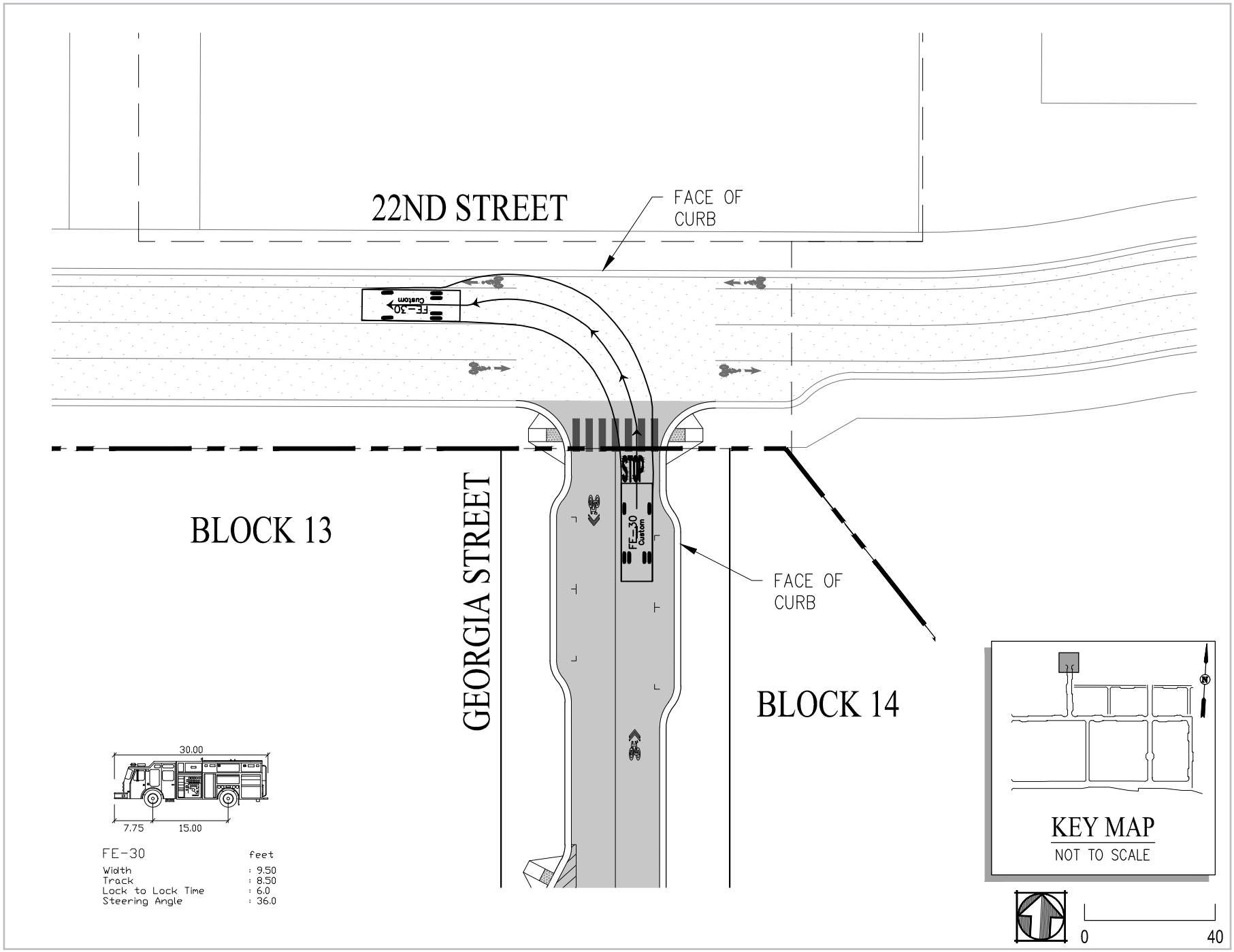
22ND STREET
FACE OF CURB
FE-30 Custom
BLOCK 13
GEORGIA STREET
FE-30 Custom
FACE OF CURB
BLOCK 14
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
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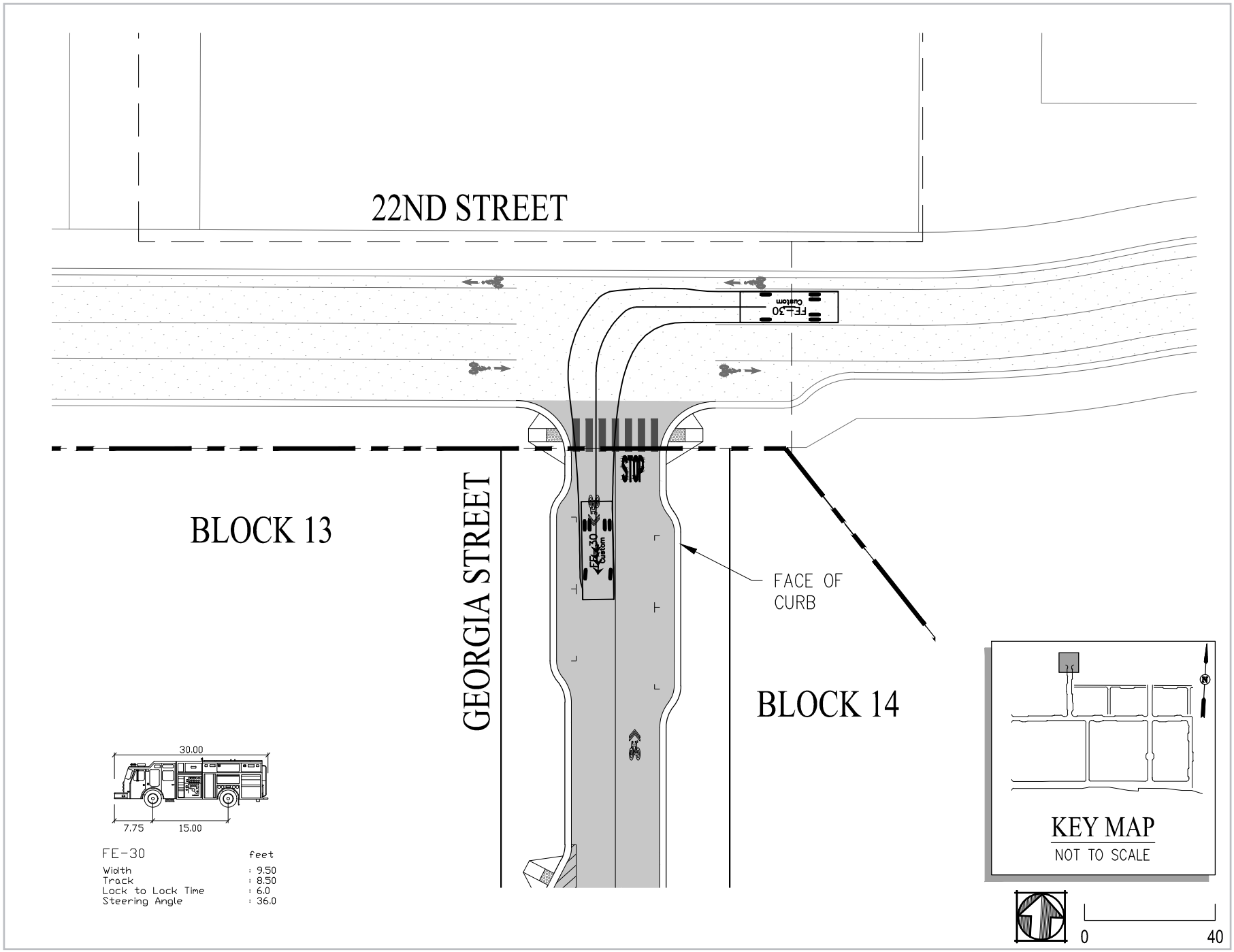
22ND STREET
BLOCK 13
GEORGIA STREET
STOP
FACE OF CURB
BLOCK 14
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
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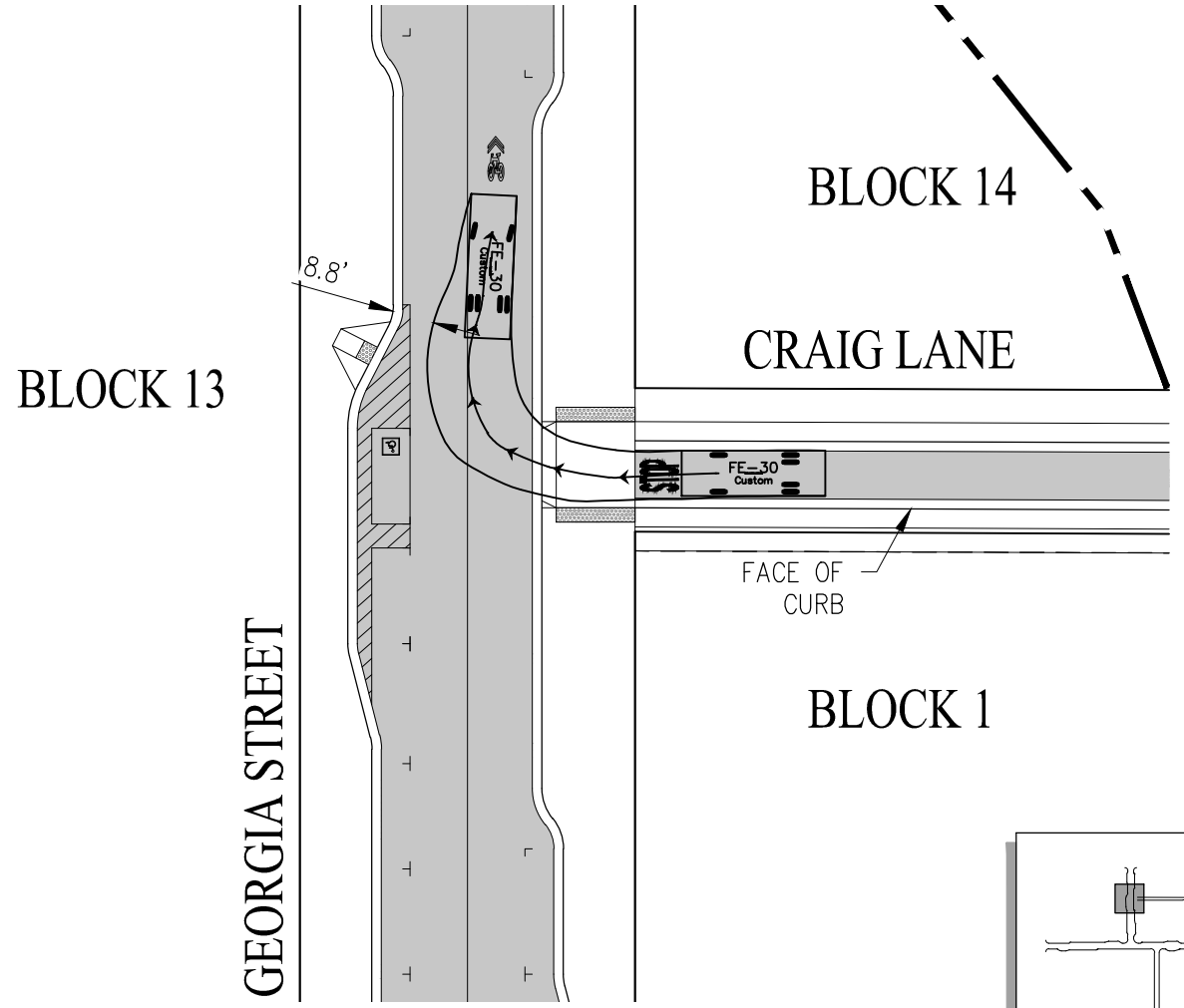

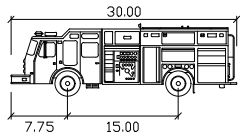

FE-30	feet
Width	: 9.50
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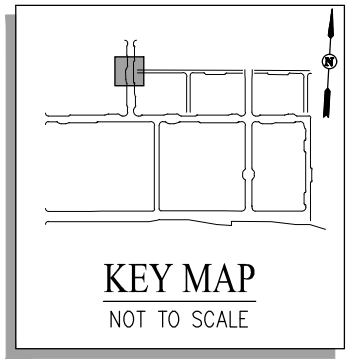
Lock to Lock Time	: 6.0
Steering Angle	: 36.0



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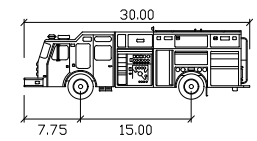
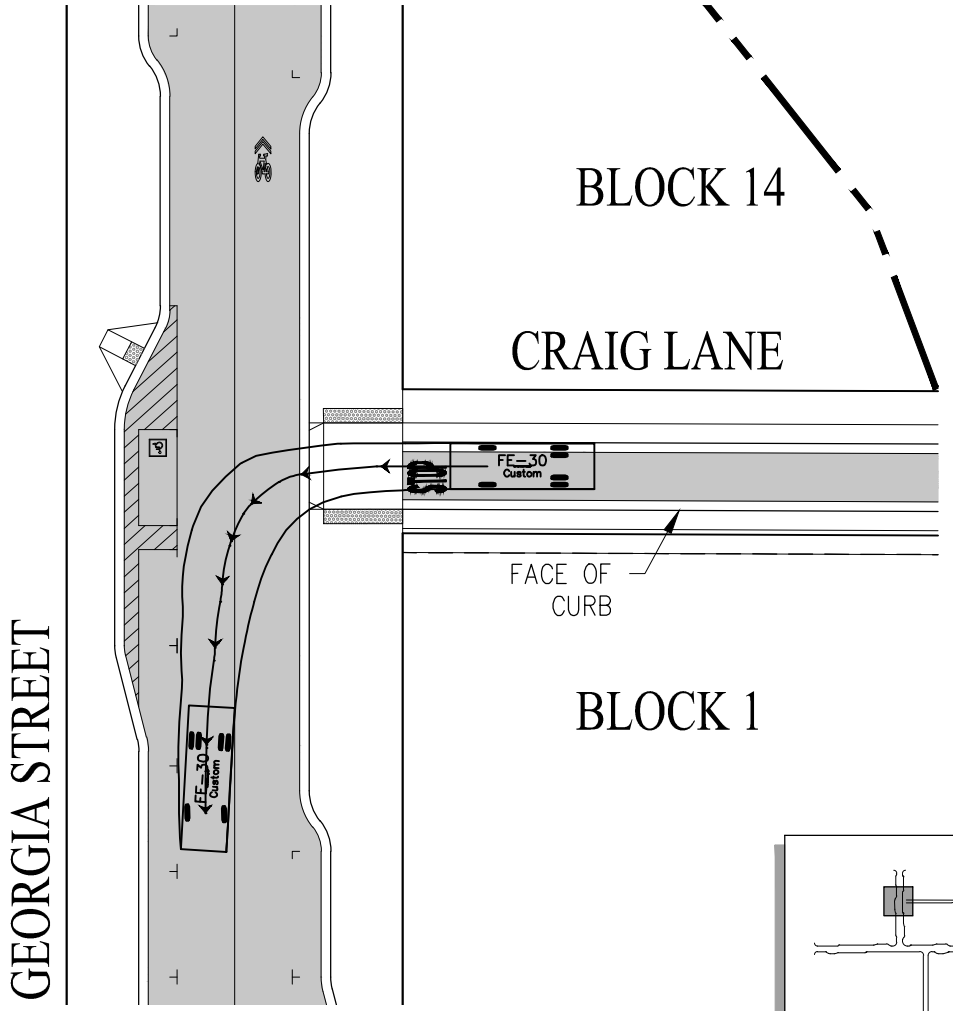
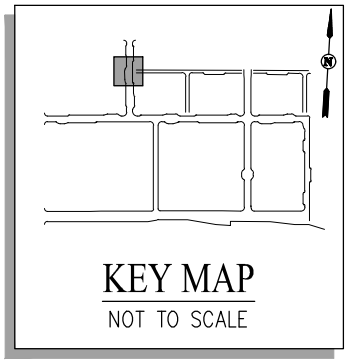


FE-30	feet
Width	: 9.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.0





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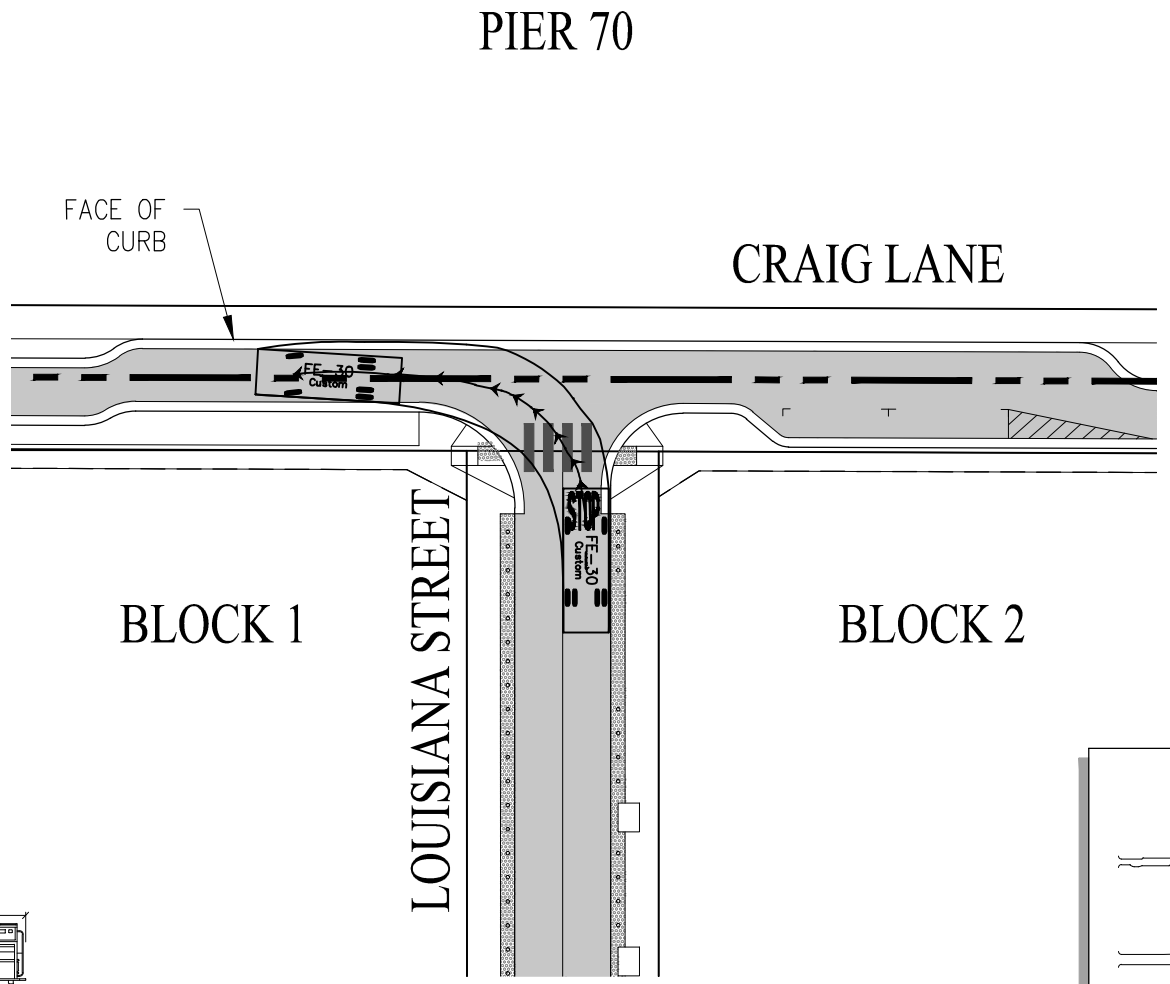
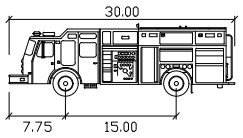
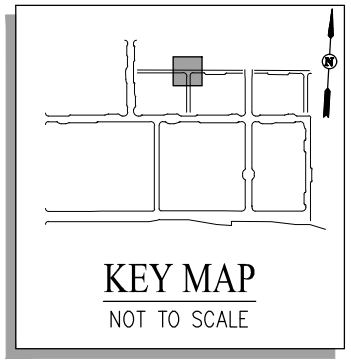
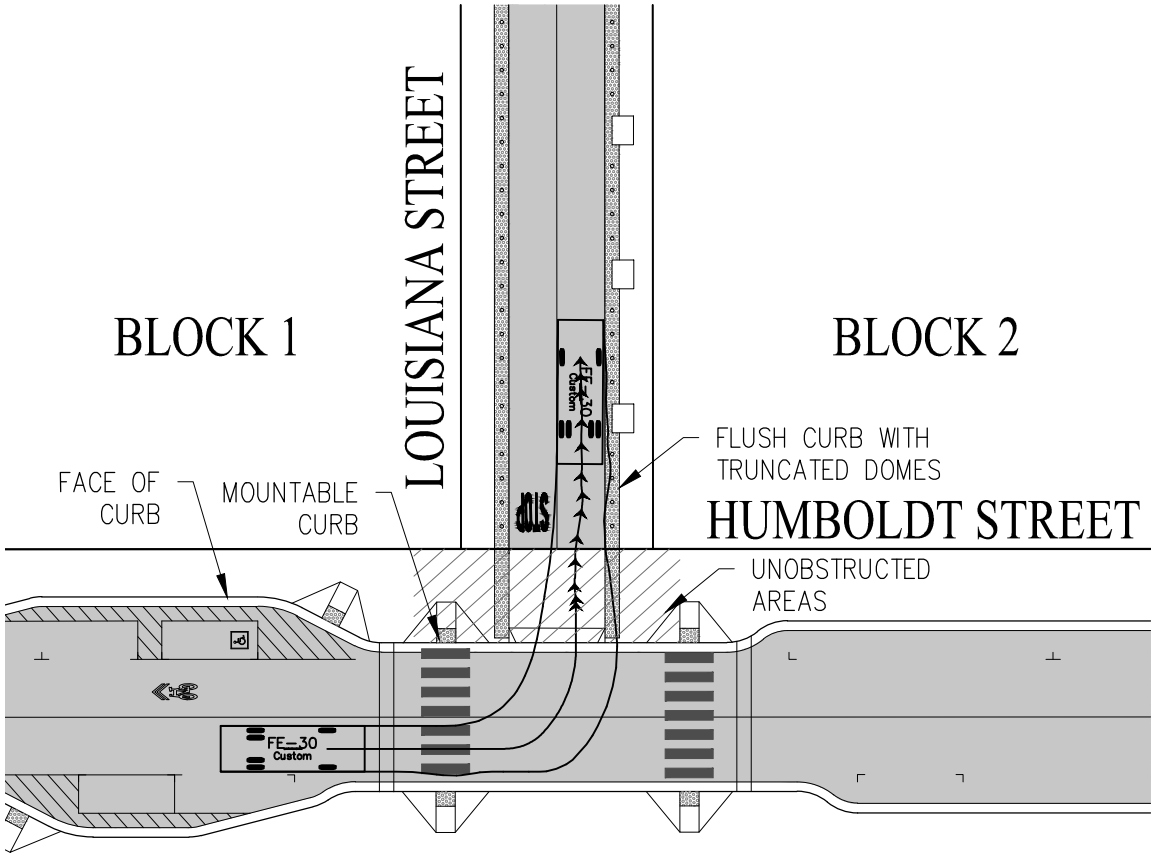
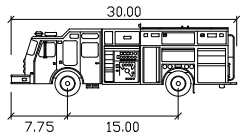




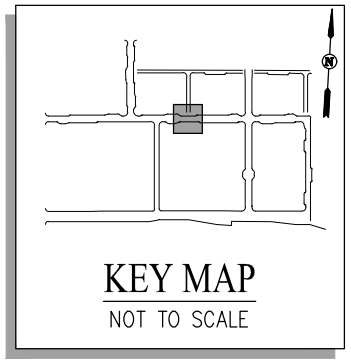
FE-30	feet
Width	: 9.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.0







FE-30	feet
Width	: 9.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.0



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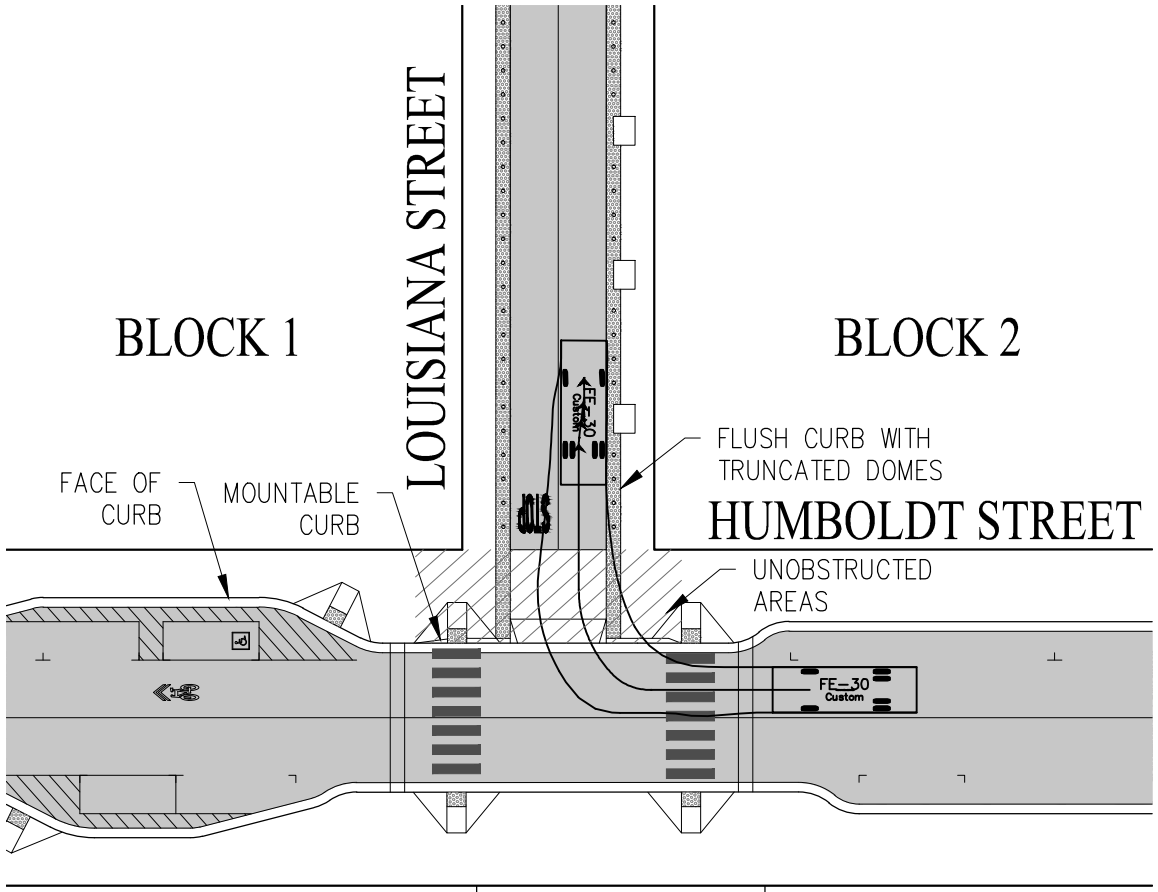
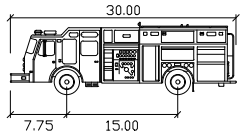
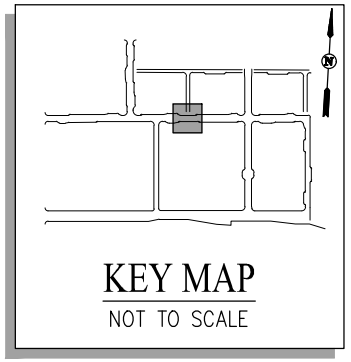




FE-30	feet
Width	: 9.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.0



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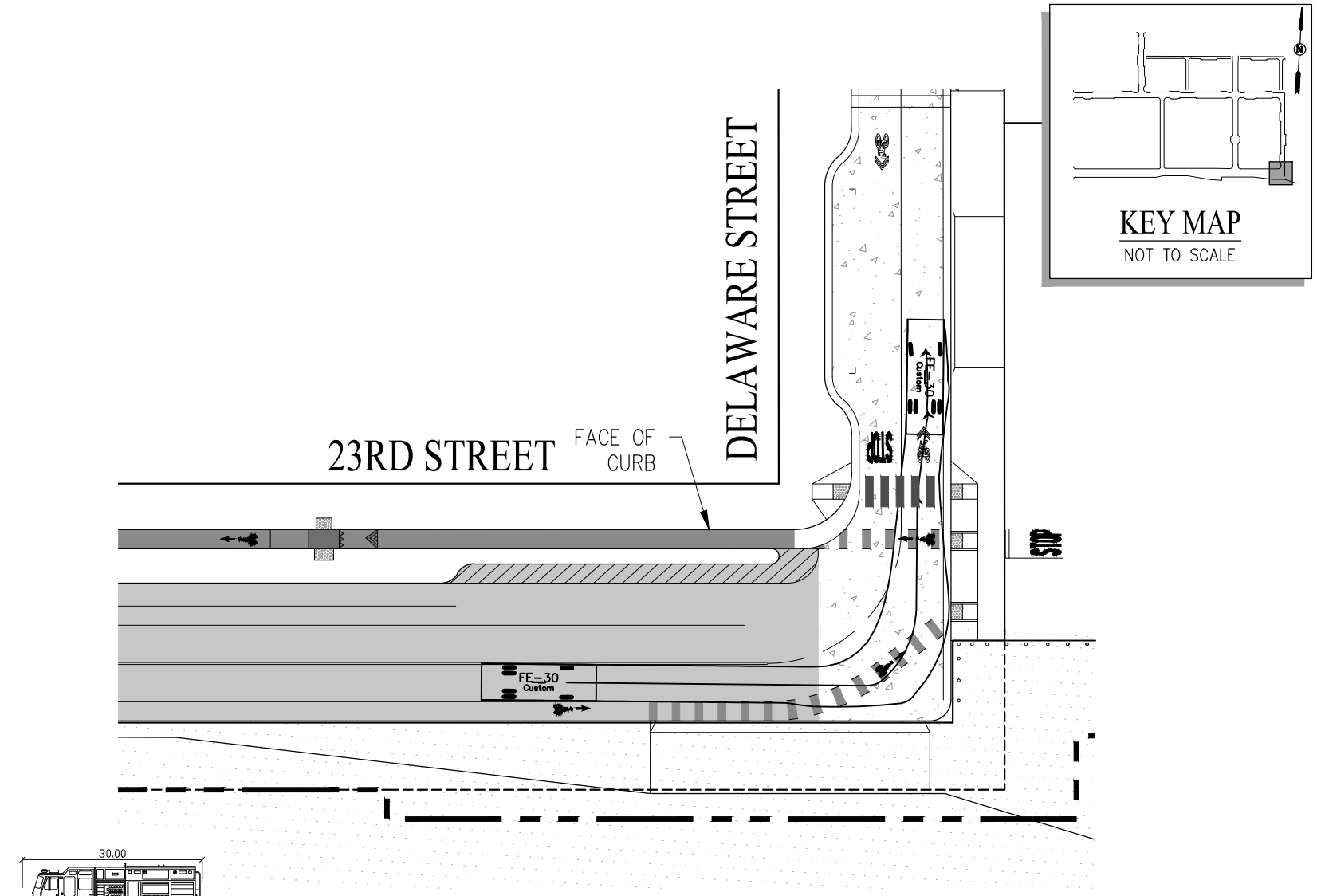
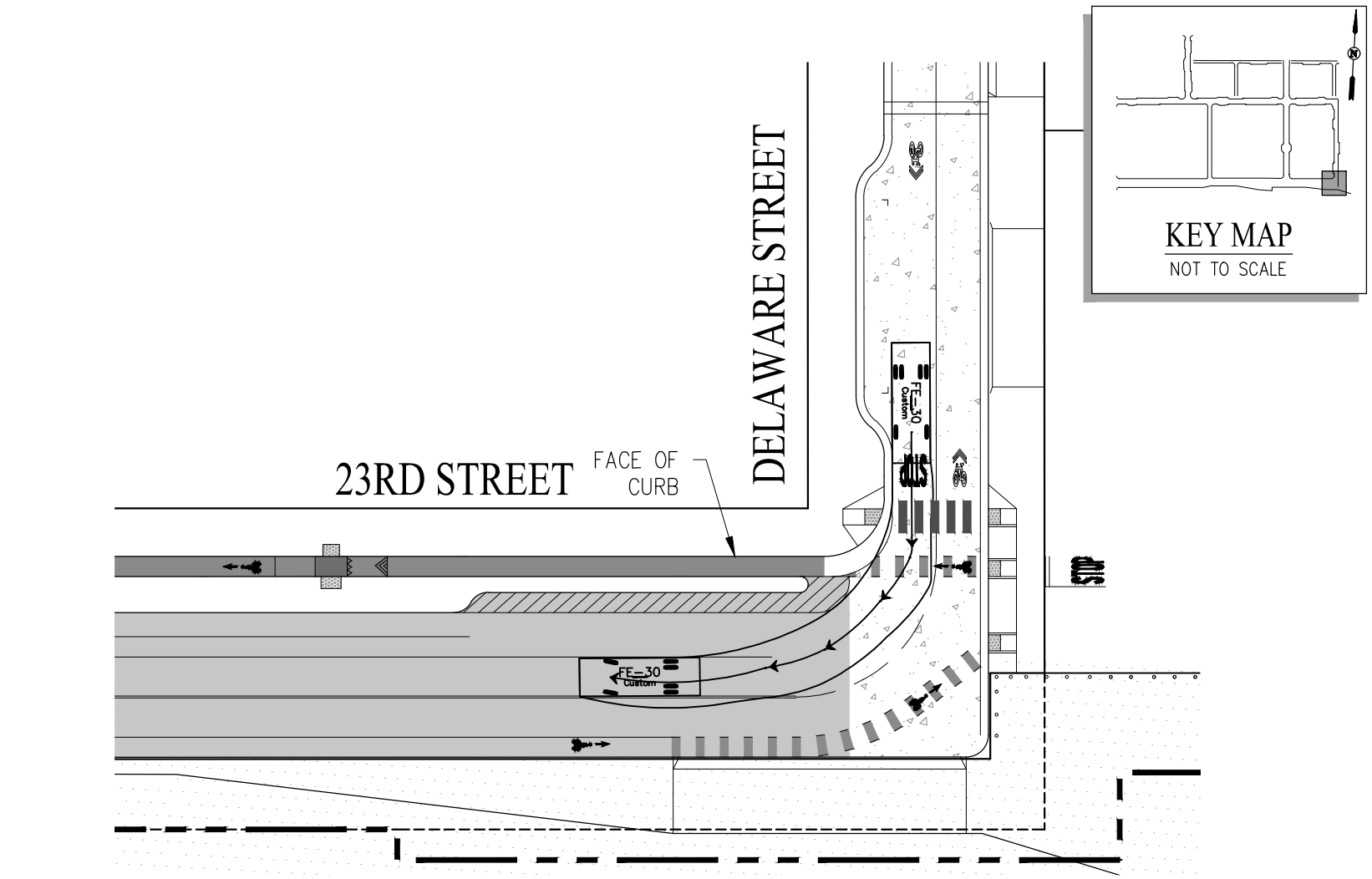
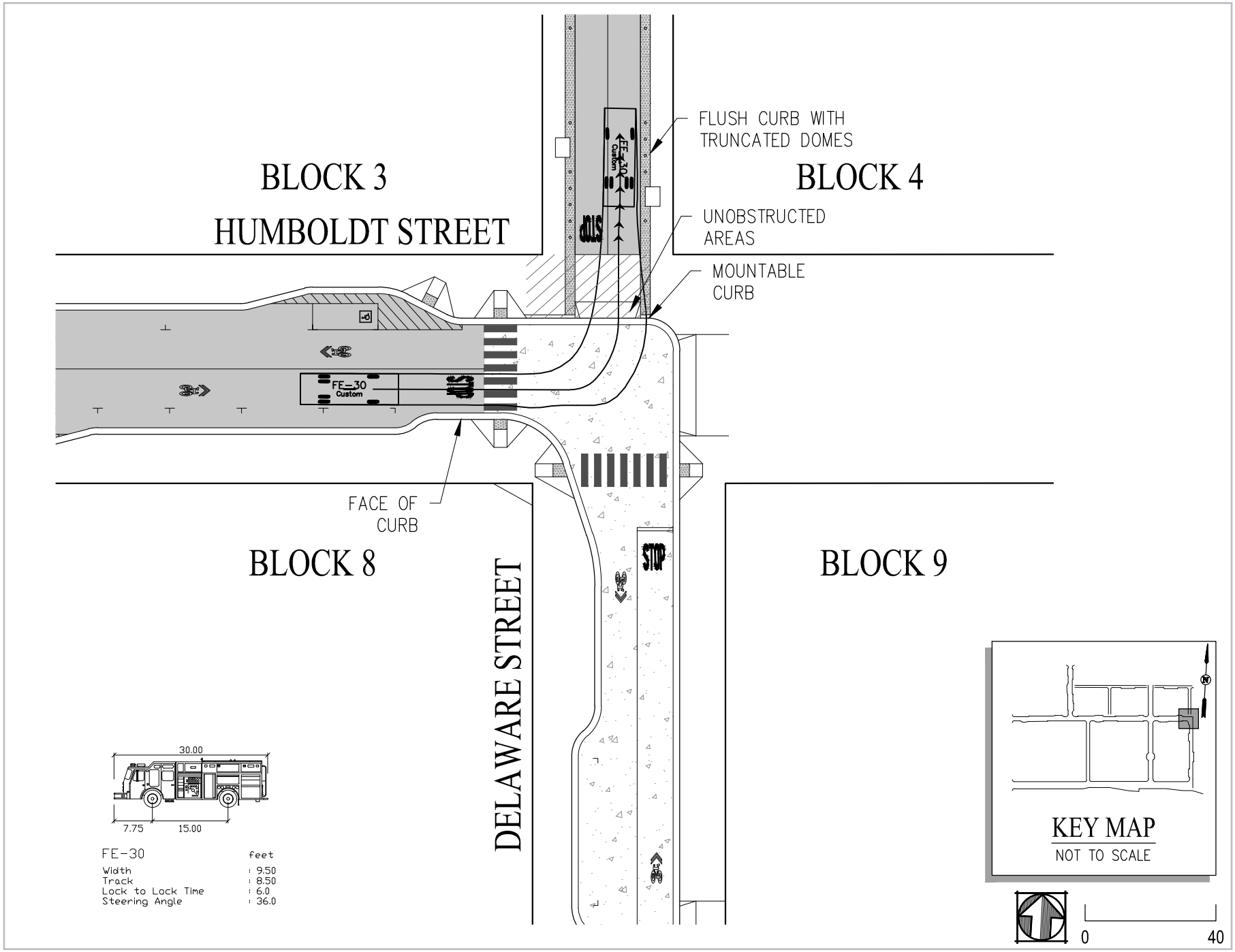
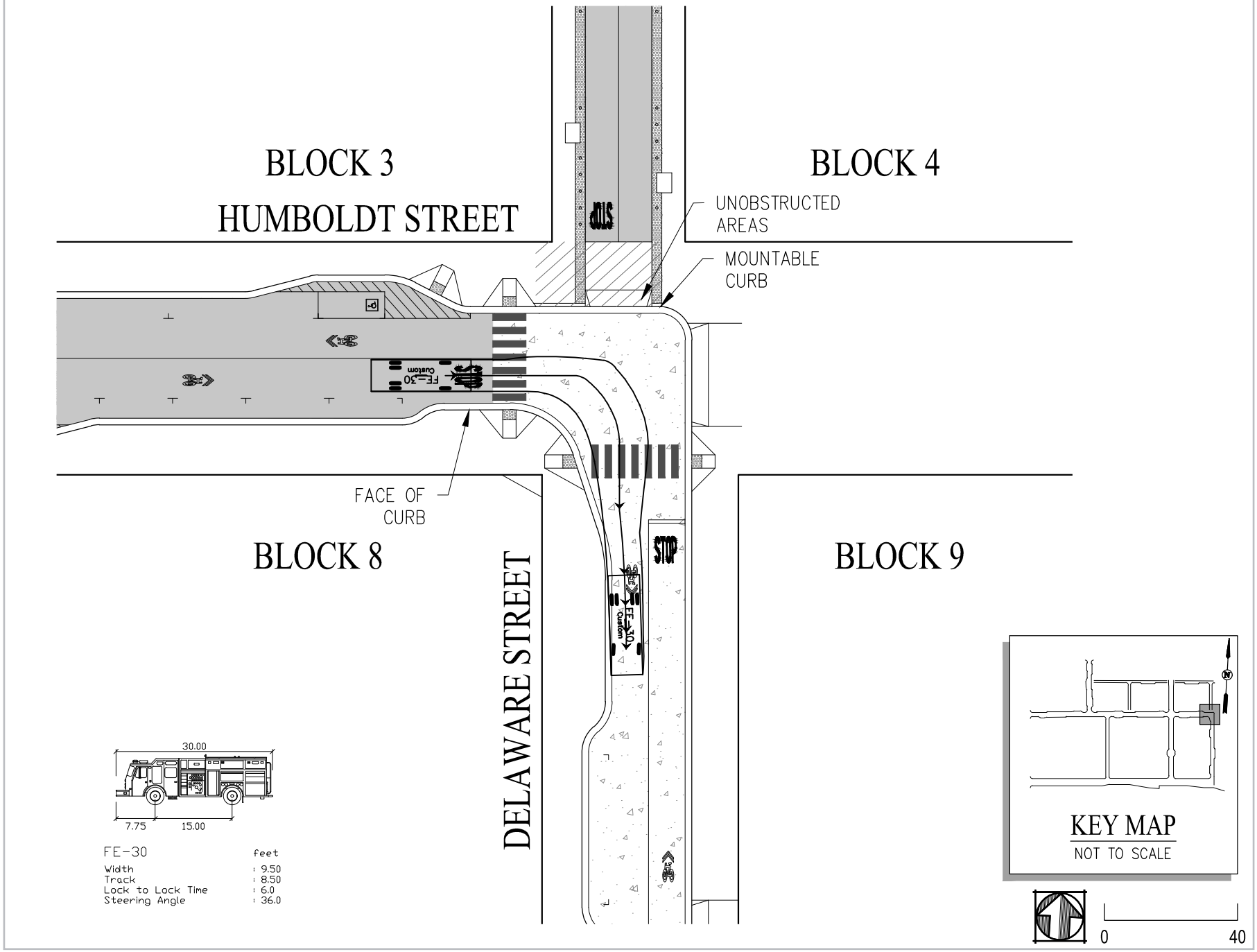
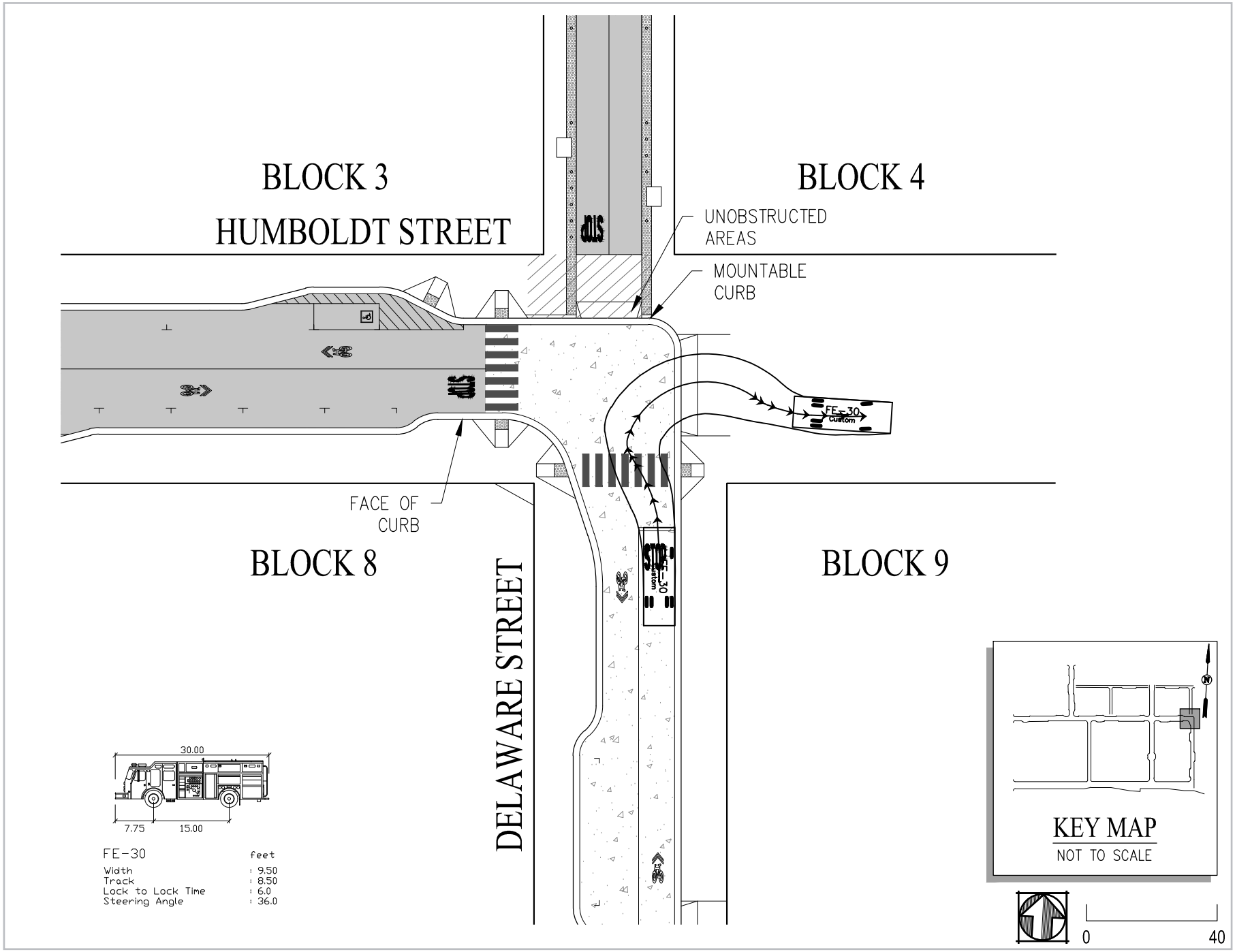

KEY MAP
NOT TO SCALE
DELAWARE STREET
23RD STREET
FACE OF CURB
FE-30
Custom
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
0
40


DELAWARE STREET
23RD STREET
FACE OF CURB
FE-30 Custom
FE-30 Custom
KEY MAP
NOT TO SCALE
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
0
40


BLOCK 3
HUMBOLDT STREET
BLOCK 4
FLUSH CURB WITH
TRUNCATED DOMES
UNOBSTRUCTED
AREAS
MOUNTABLE
CURB
FE-30
Custom
STOP
FACE OF
CURB
BLOCK 8
DELAWARE STREET
BLOCK 9
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
40


BLOCK 3
HUMBOLDT STREET
BLOCK 4
UNOBSTRUCTED
AREAS
MOUNTABLE
CURB
FACE OF
CURB
BLOCK 8
DELAWARE STREET
BLOCK 9
STOP
FE-30
Custom
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
40


BLOCK 3
HUMBOLDT STREET
BLOCK 4
UNOBSTRUCTED AREAS
MOUNTABLE CURB
FACE OF CURB
BLOCK 8
DELAWARE STREET
BLOCK 9
FE-30 Custom
FE-30 Custom
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
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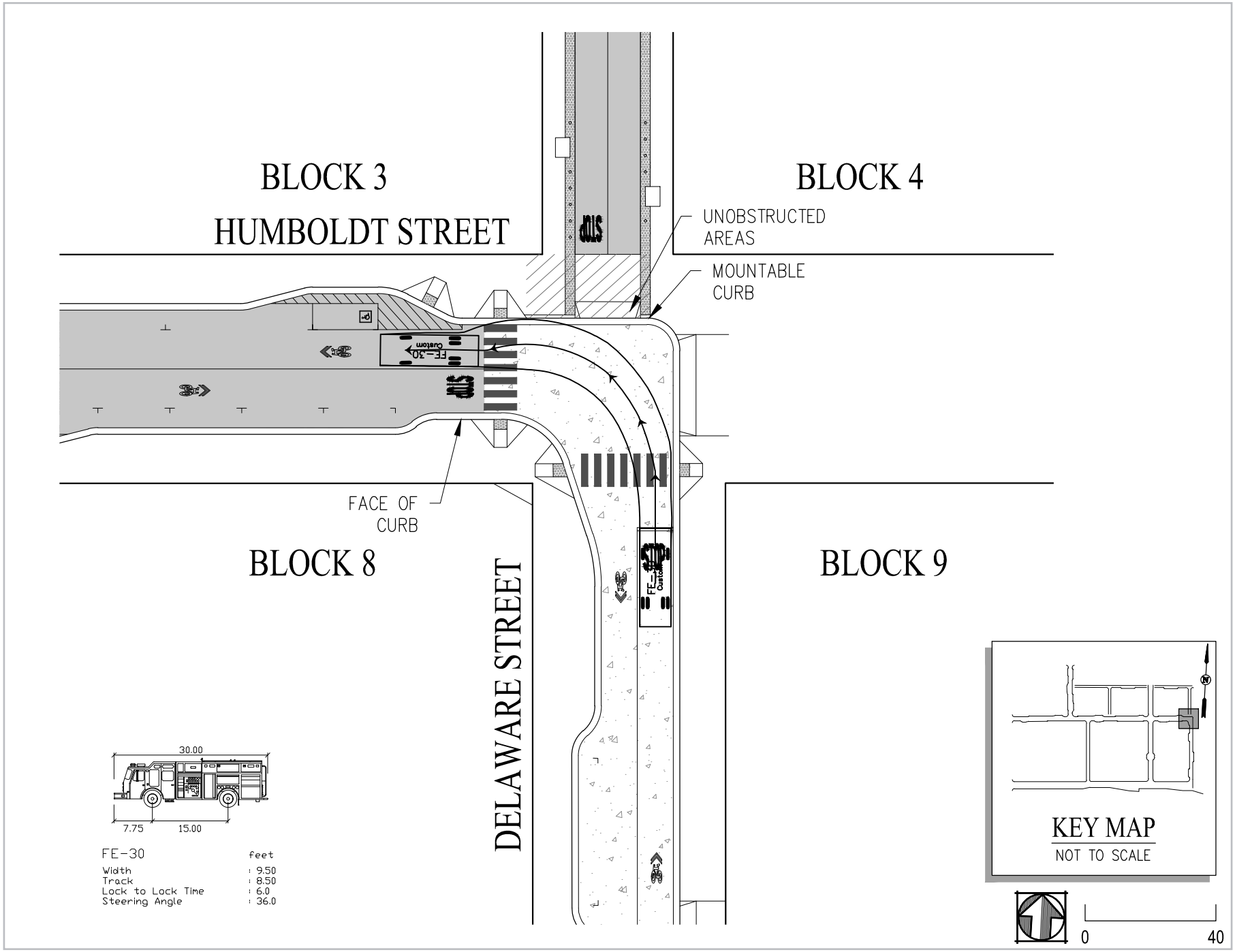
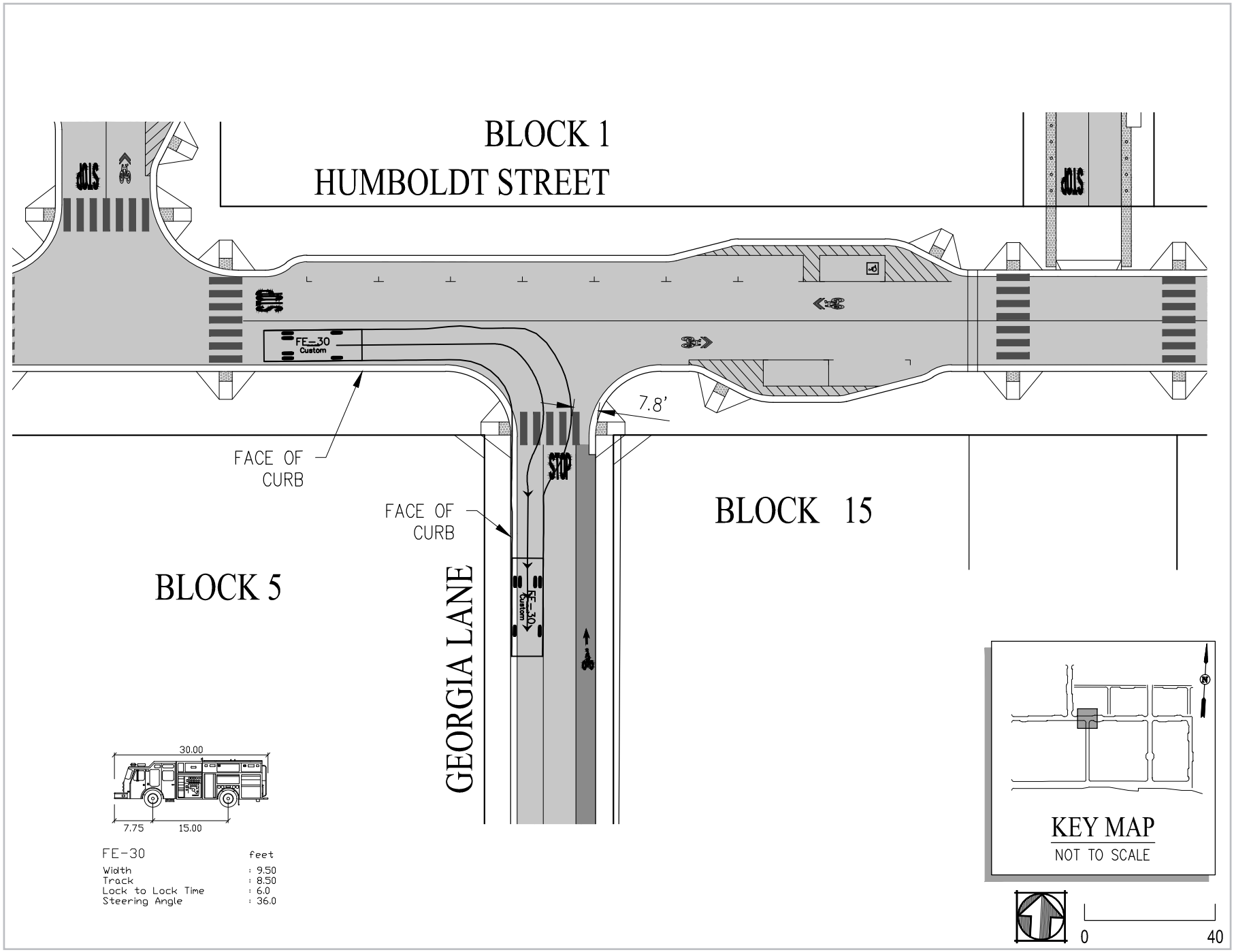
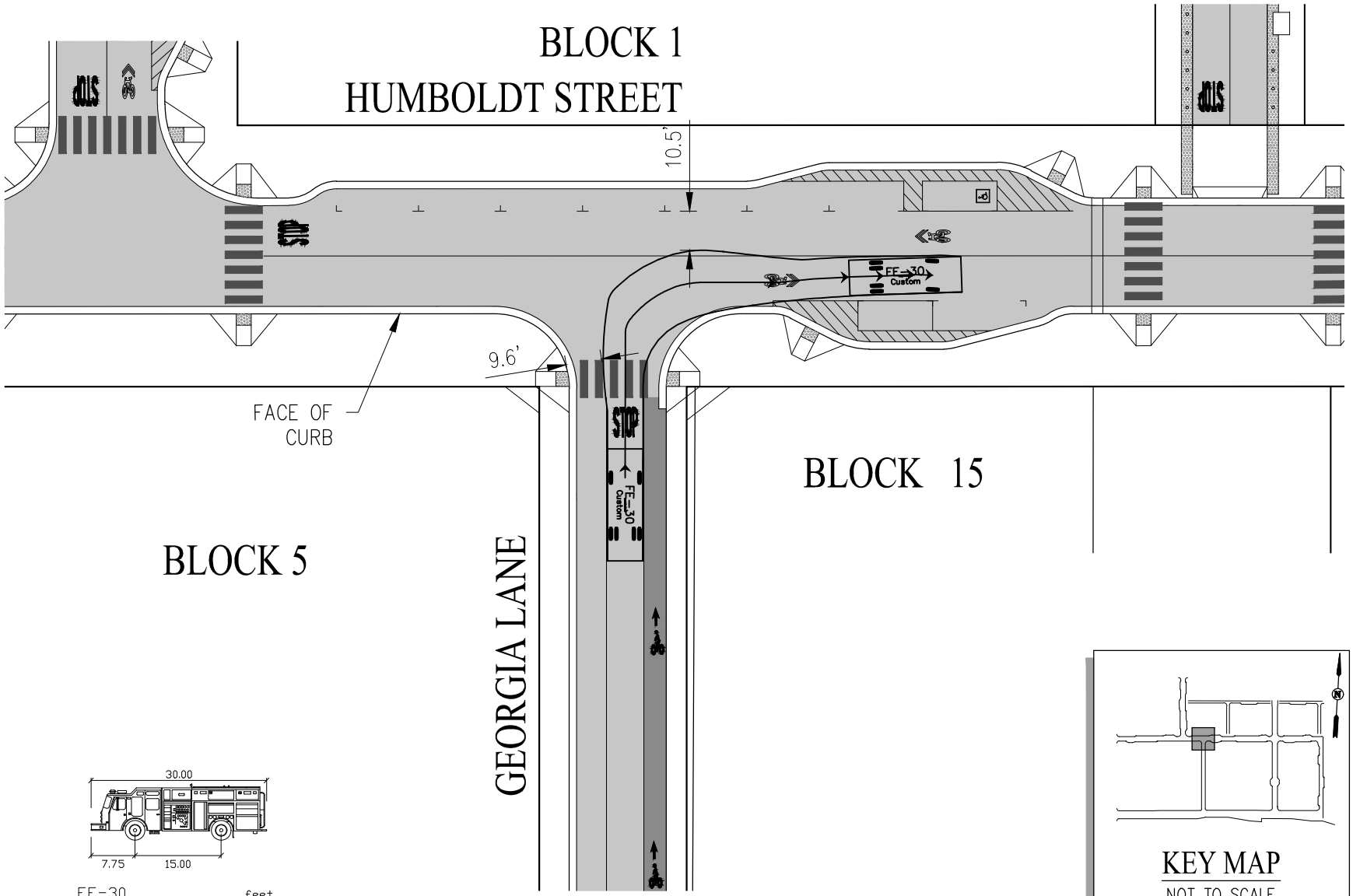
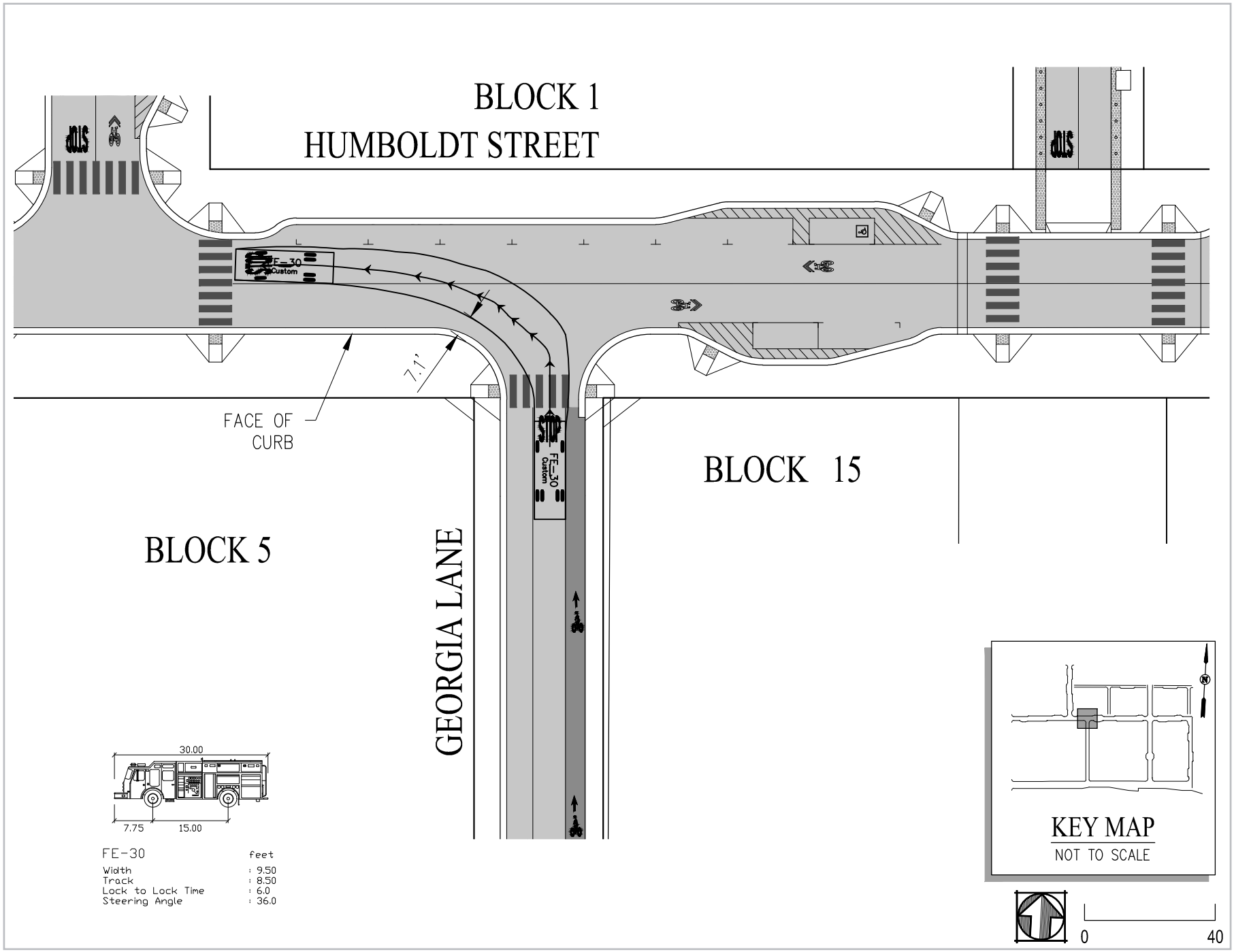
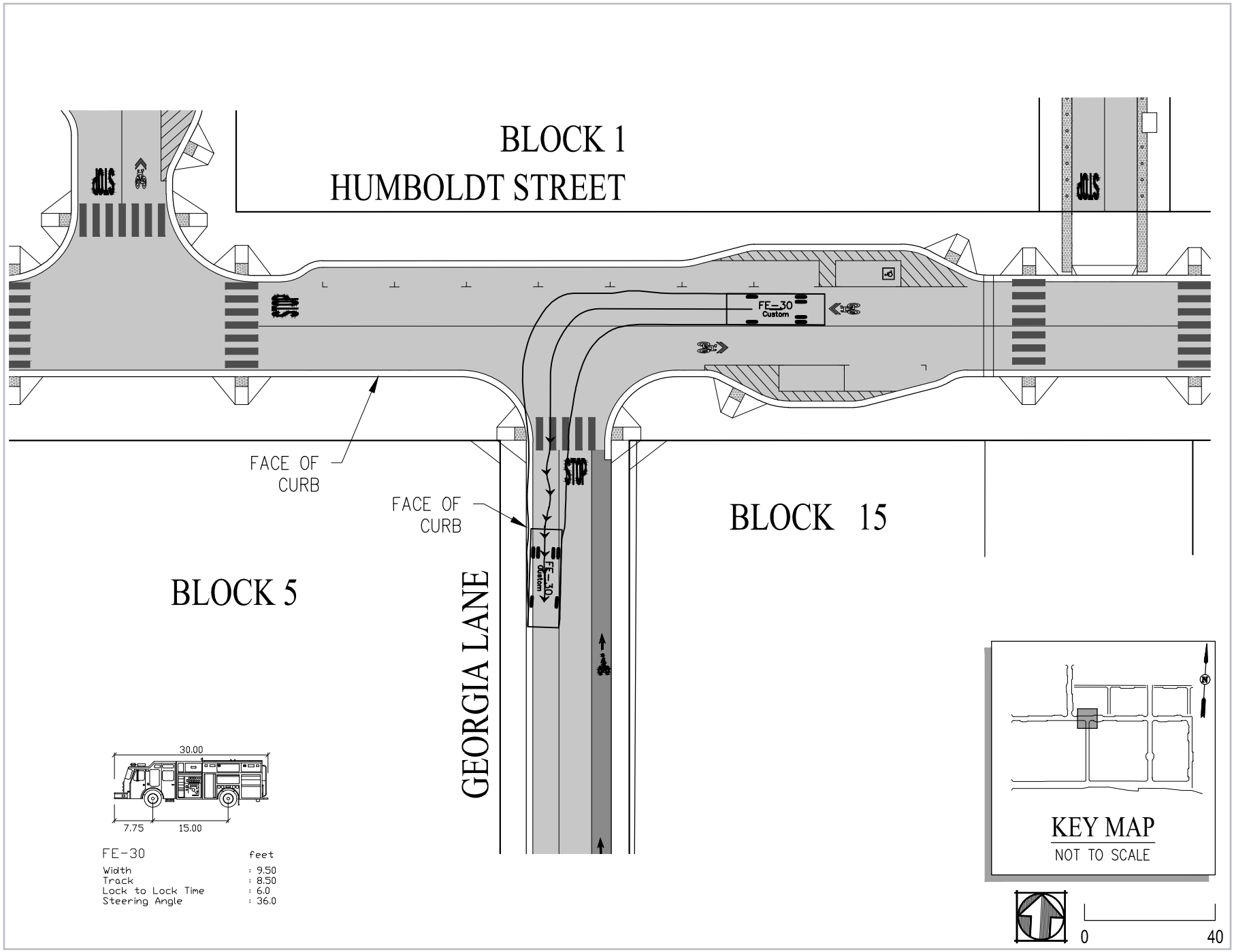
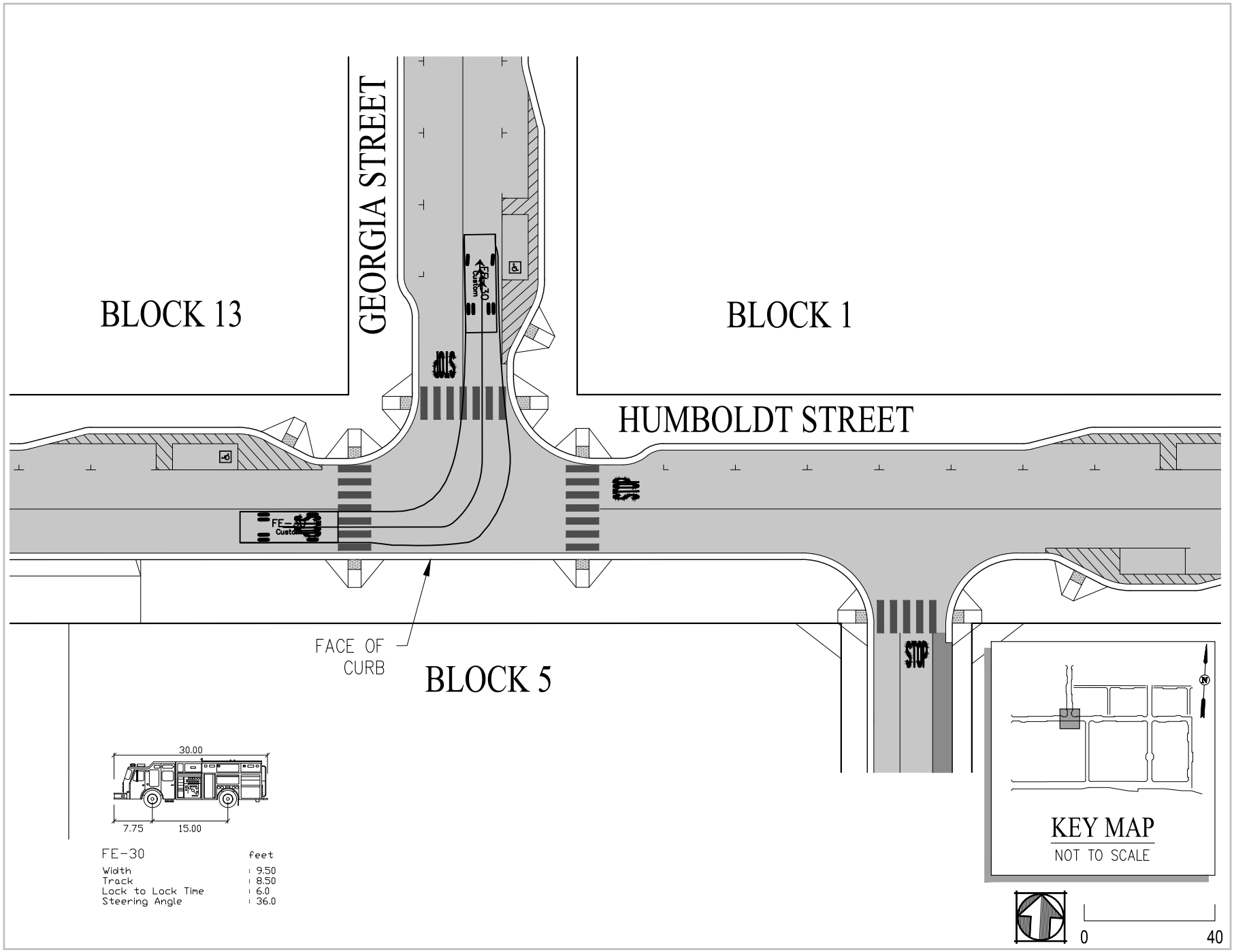

BLOCK 3
HUMBOLDT STREET
BLOCK 4
UNOBSTRUCTED AREAS
MOUNTABLE CURB
FACE OF CURB
BLOCK 8
DELAWARE STREET
BLOCK 9
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
40

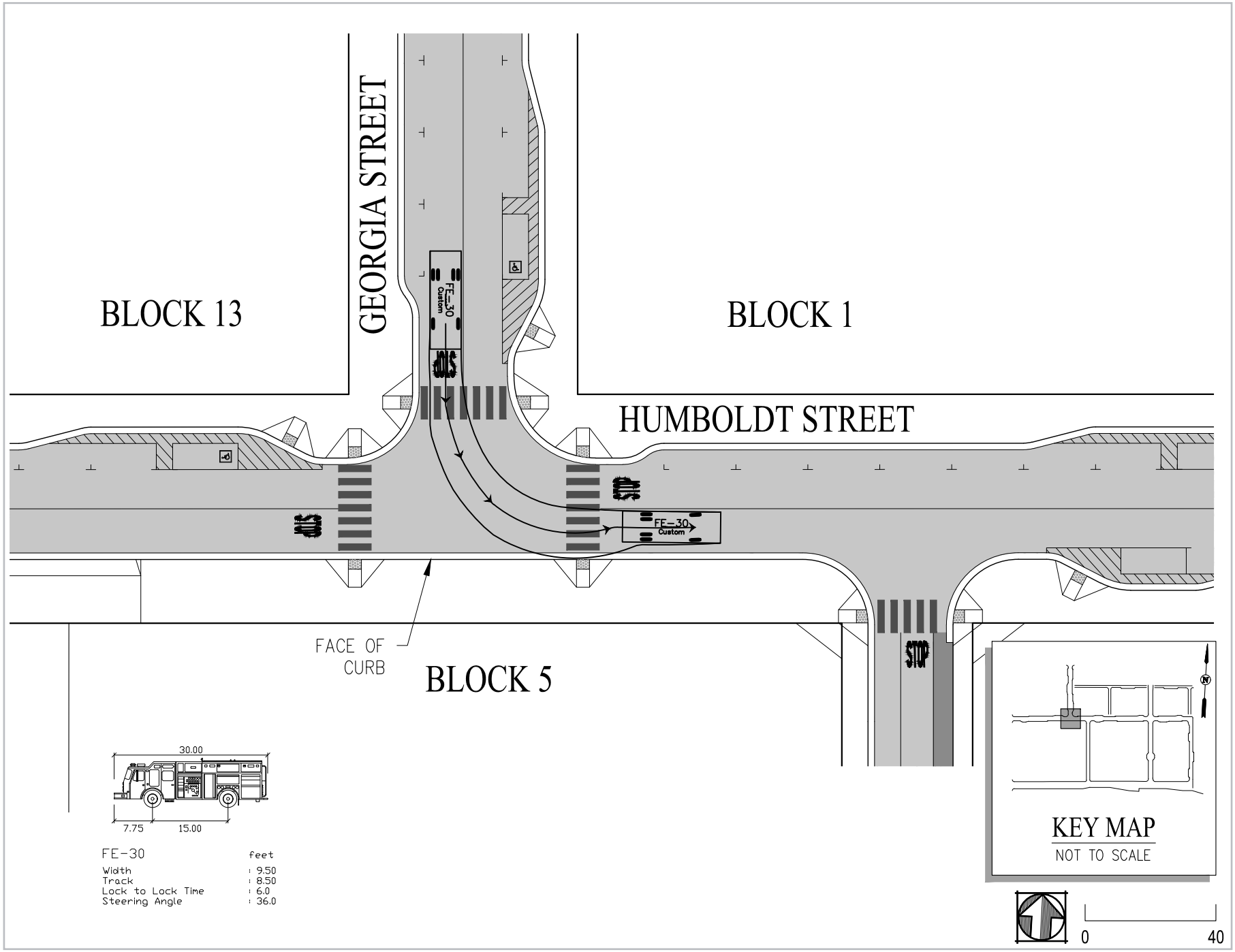

BLOCK 1
HUMBOLDT STREET
STOP
STOP
FE-30
Custom
7.8'
FACE OF
CURB
FACE OF
CURB
STOP
BLOCK 15
BLOCK 5
GEORGIA LANE
FE-30
Custom
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
40

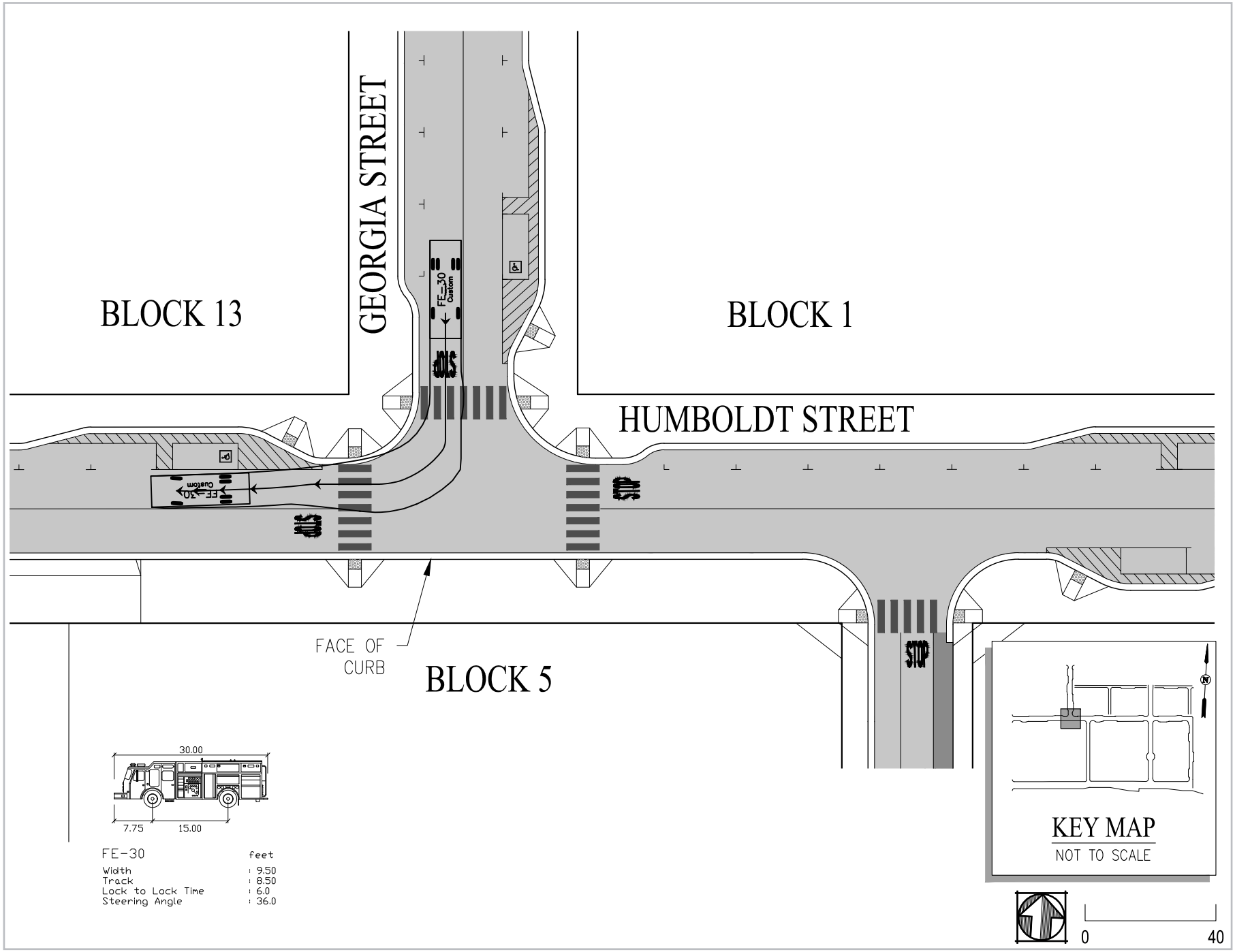

BLOCK 1
HUMBOLDT STREET
10.5'
9.6'
FACE OF
CURB
STOP
FE-30
Custom
BLOCK 15
BLOCK 5
GEORGIA LANE
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
40

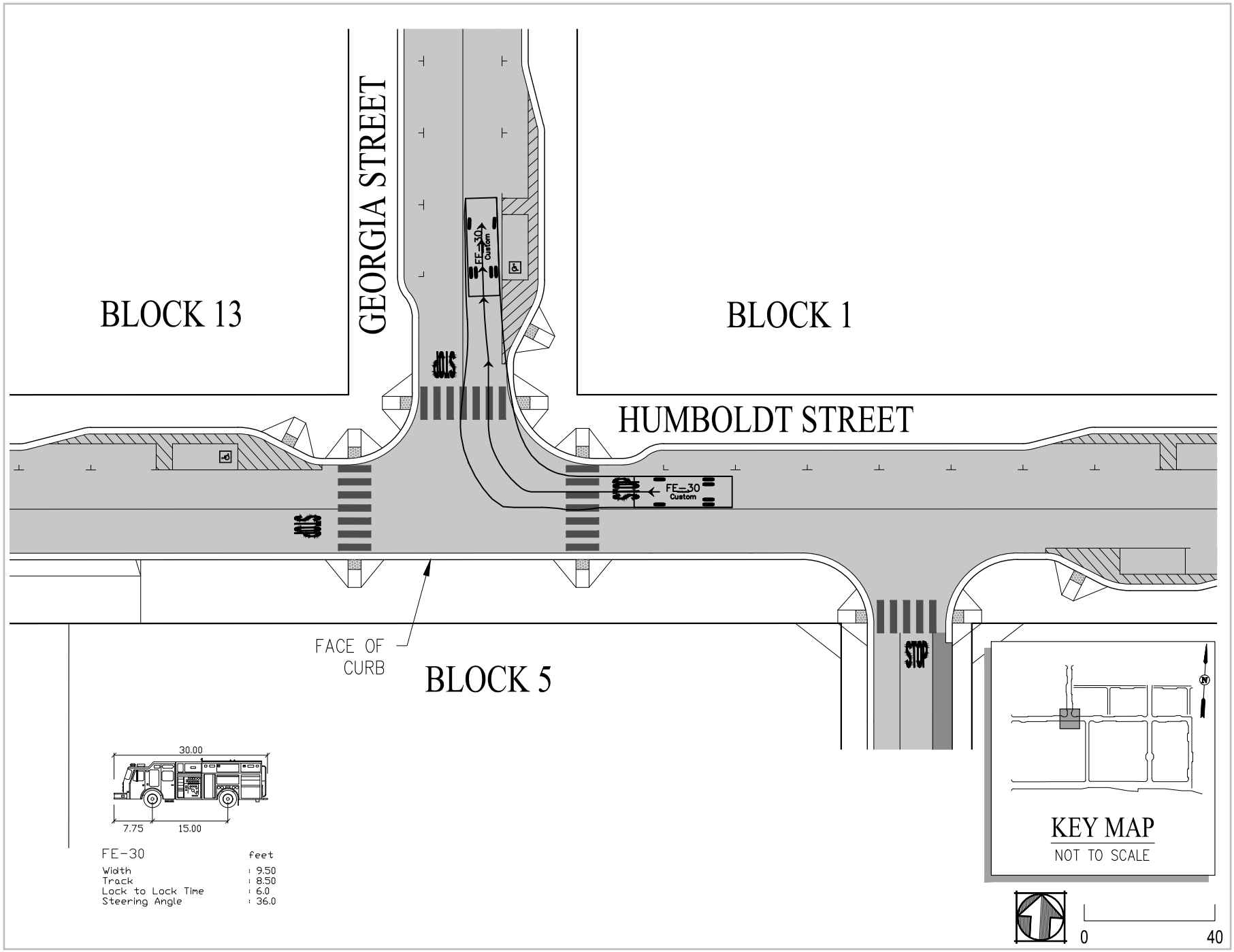

BLOCK 1
HUMBOLDT STREET
FE-30 Custom
7.1'
FACE OF CURB
STOP
FE-30 Custom
BLOCK 15
BLOCK 5
GEORGIA LANE
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
40


BLOCK 1
HUMBOLDT STREET
FE-30
Custom
FACE OF
CURB
FACE OF
CURB
STOP
BLOCK 15
BLOCK 5
GEORGIA LANE
FE-30
Custom
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
40

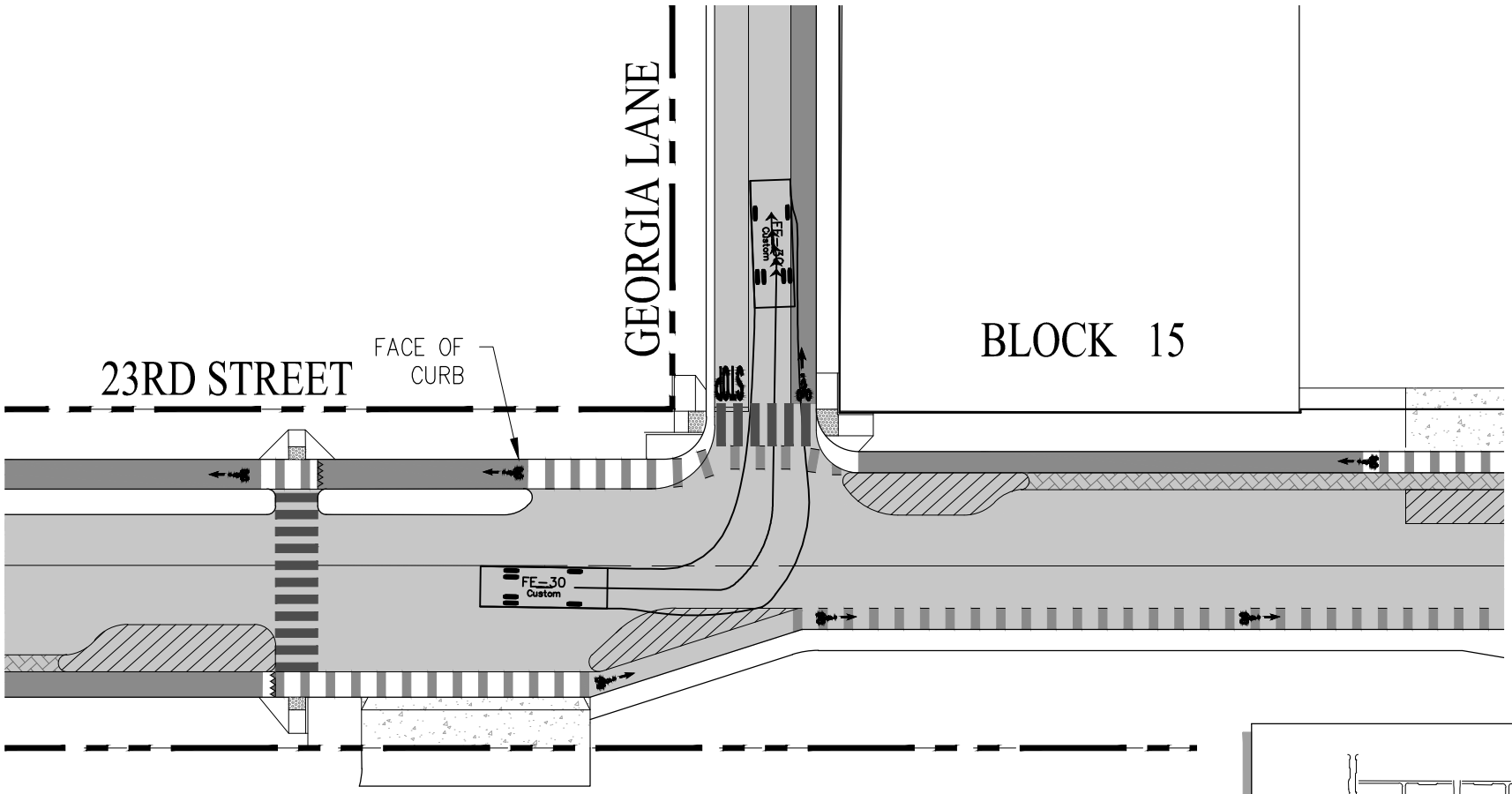

BLOCK 13
GEORGIA STREET
BLOCK 1
HUMBOLDT STREET
FACE OF CURB
BLOCK 5
STOP
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
40

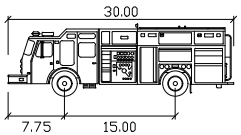

BLOCK 13
GEORGIA STREET
BLOCK 1
HUMBOLDT STREET
FE-30
Custom
FE-30
Custom
FACE OF
CURB
BLOCK 5
STOP
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
40


BLOCK 13
GEORGIA STREET
BLOCK 1
HUMBOLDT STREET
FE-30 Custom
FE-30 Custom
STOP
FACE OF CURB
BLOCK 5
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
40

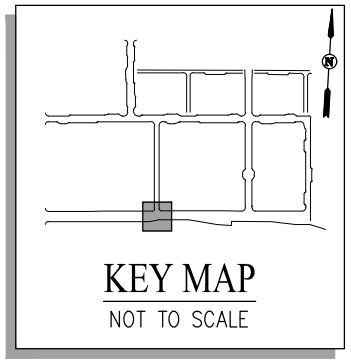


Appendix G Fire Truck Turning Movements





FE-30	feet
Width	: 9.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.0



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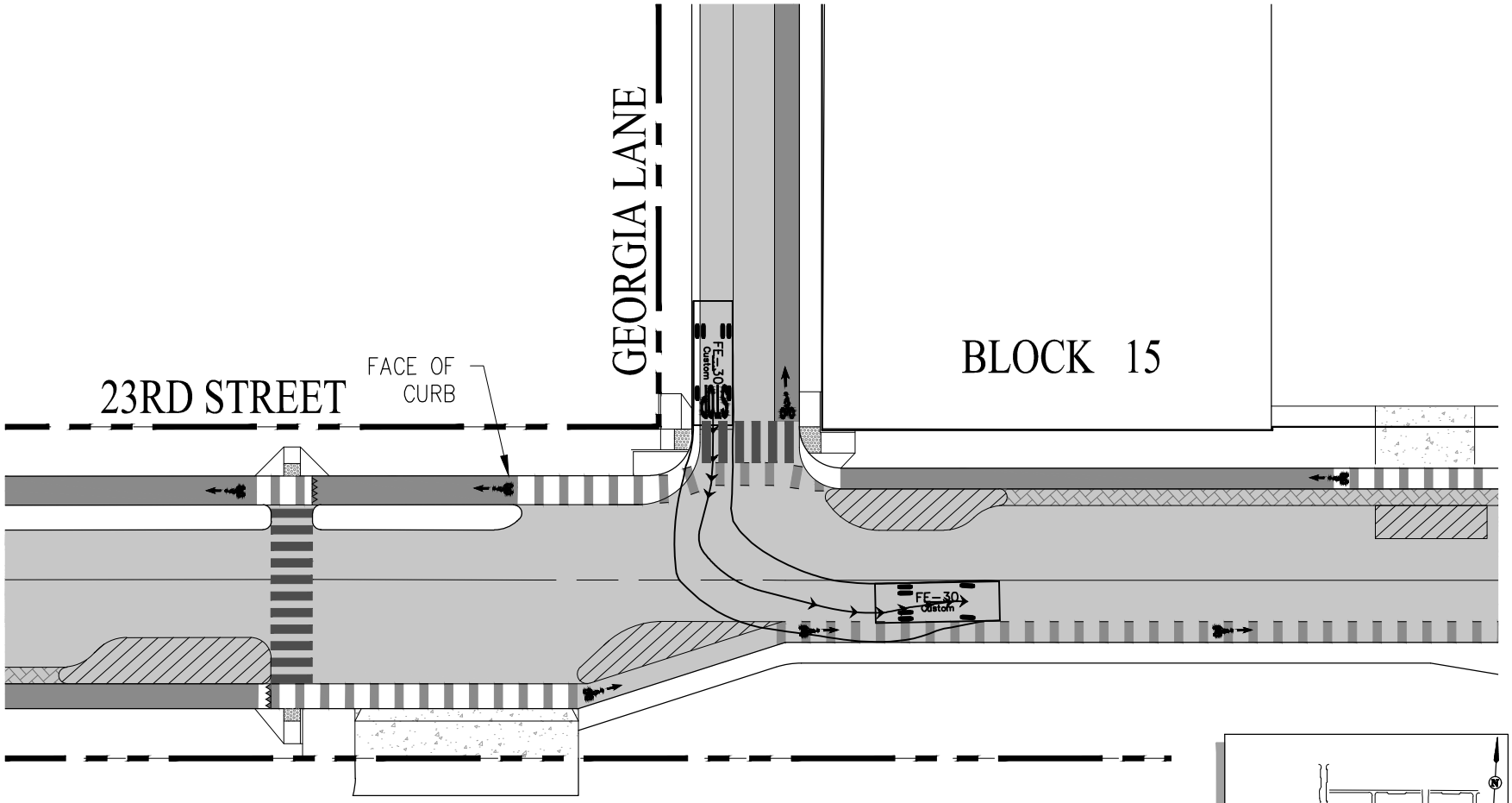
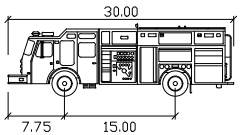
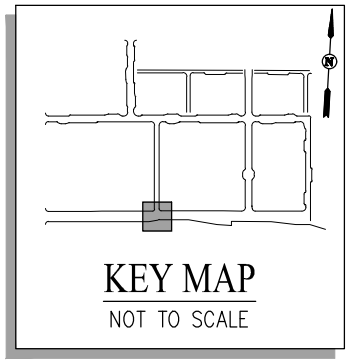




FE-30	feet
Width	: 9.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.0



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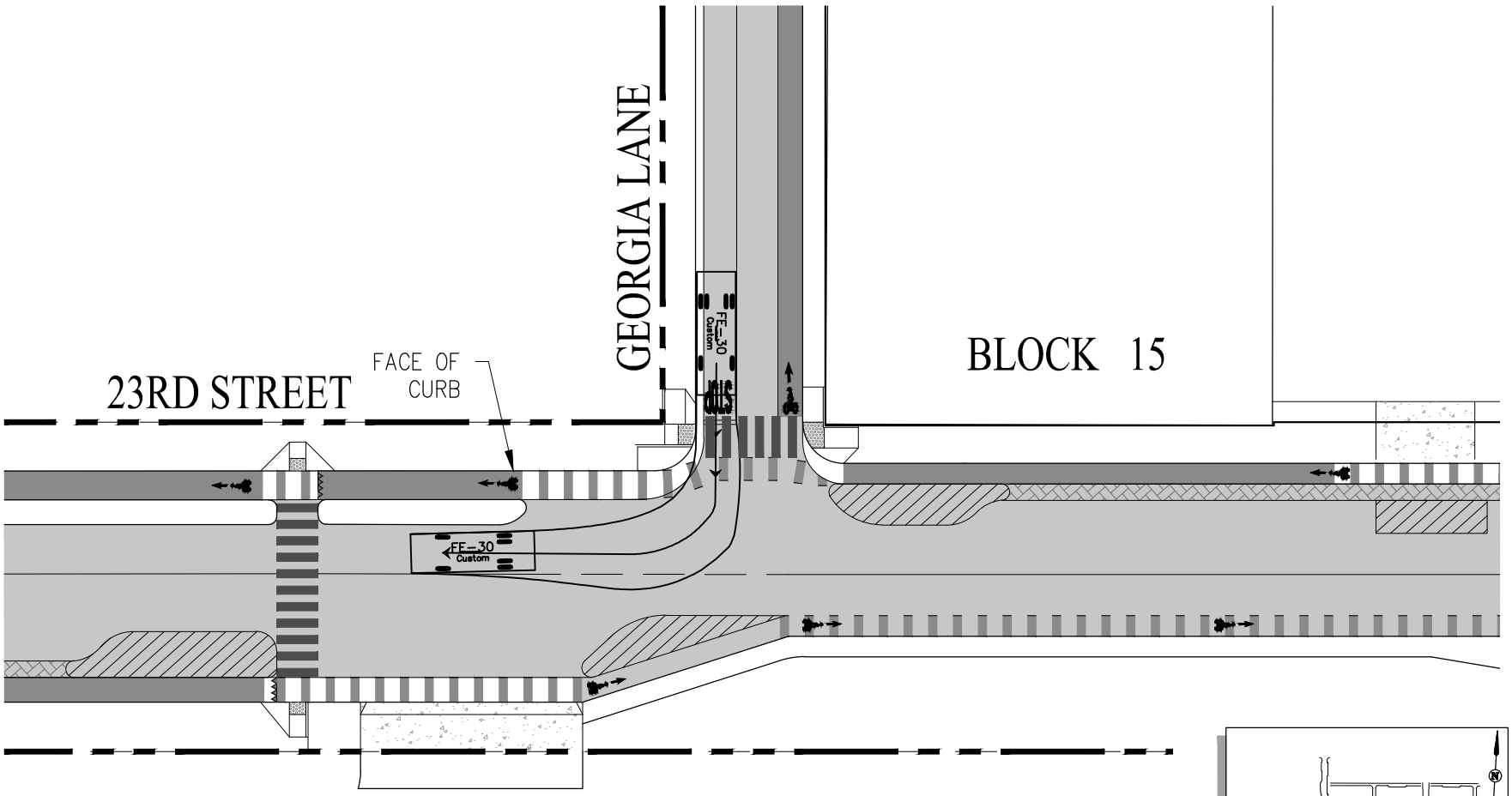

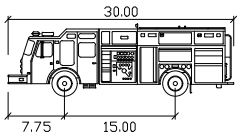

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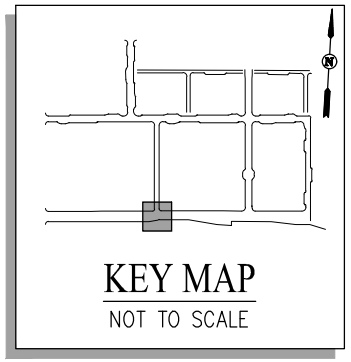
Lock to Lock Time	: 6.0
Steering Angle	: 36.0



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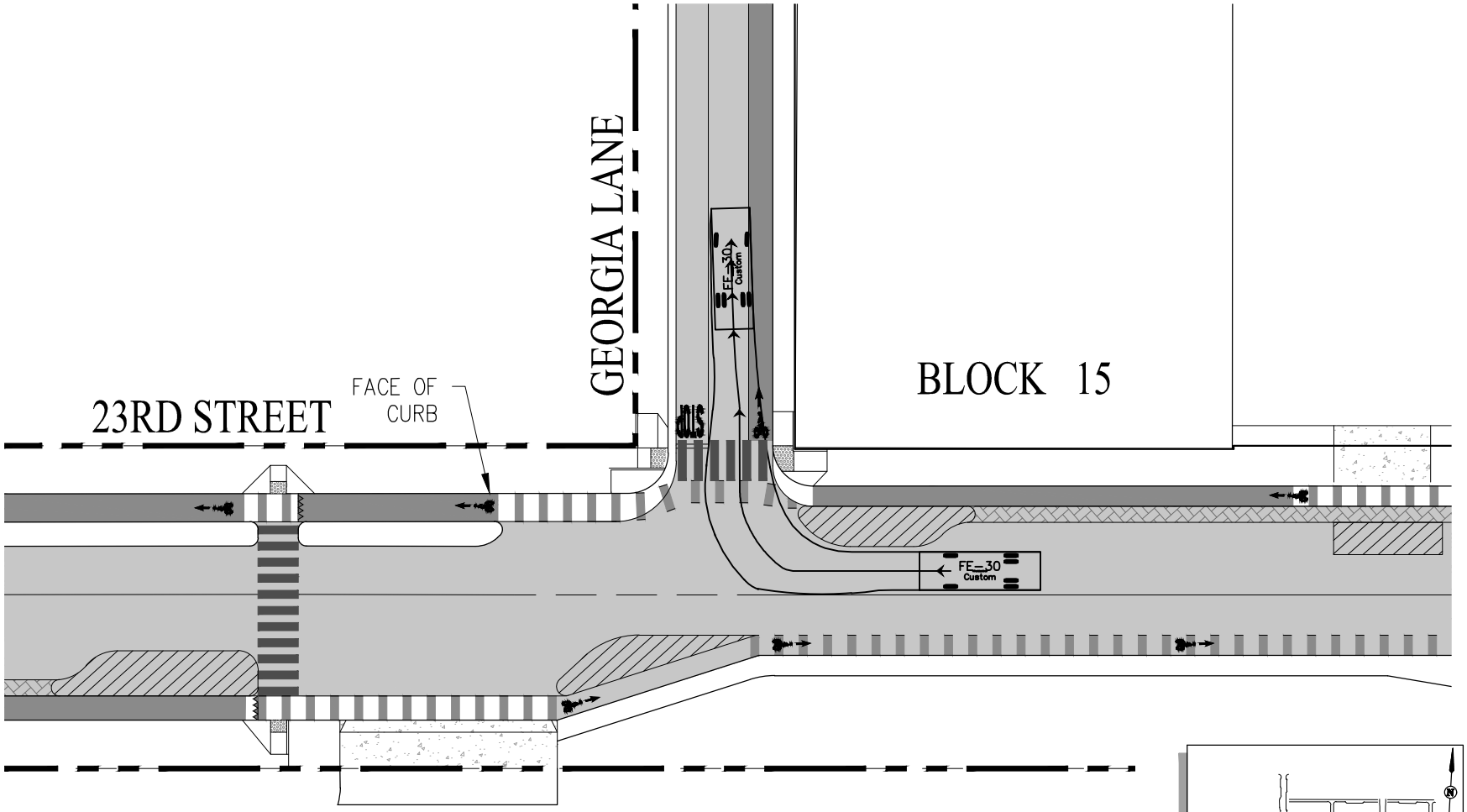

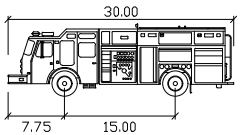

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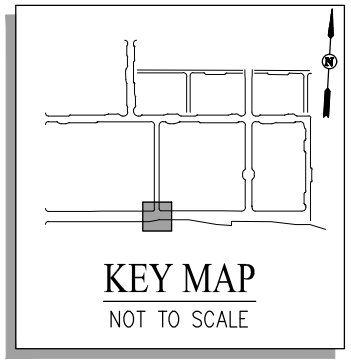

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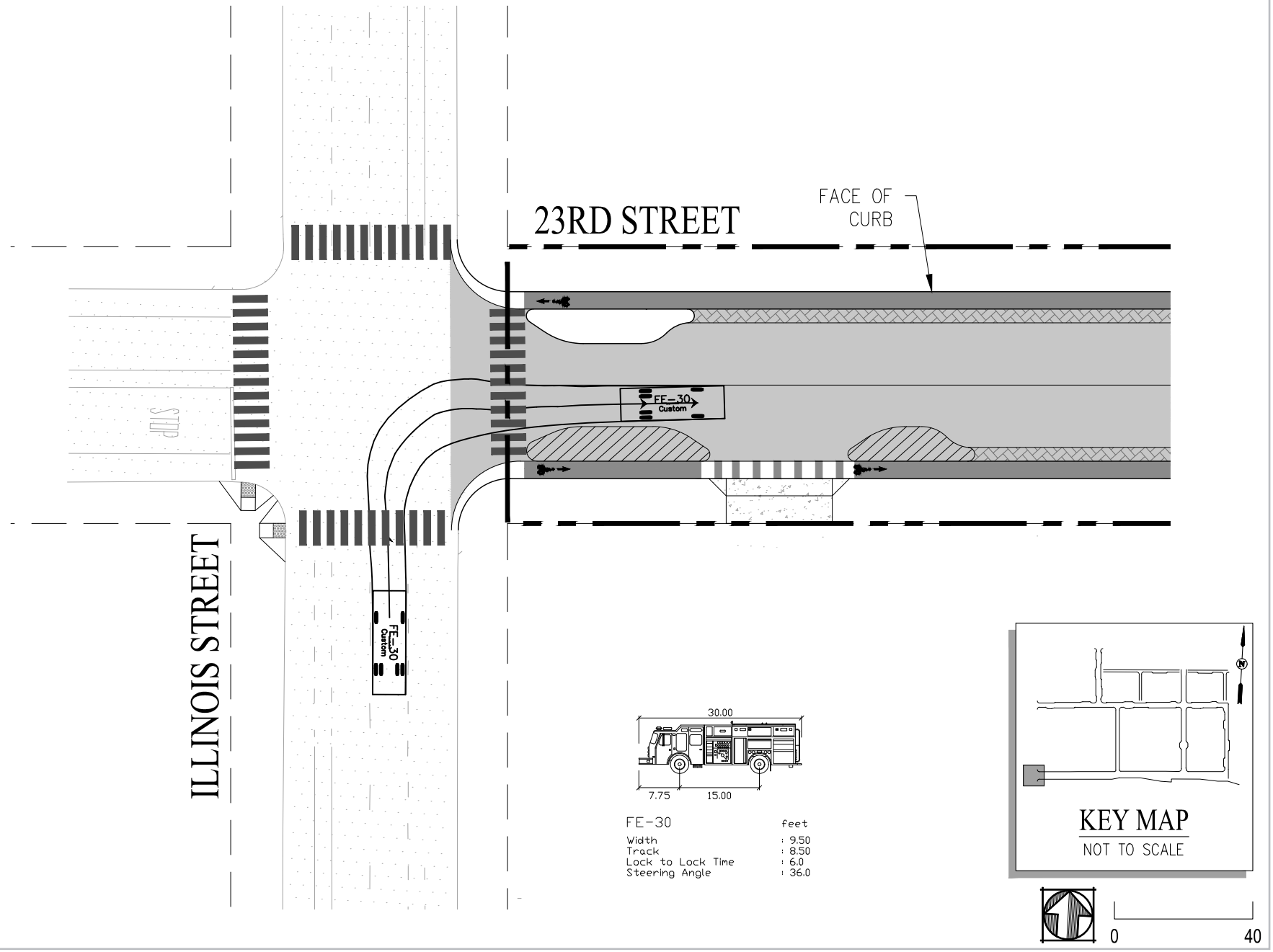
23RD STREET
FACE OF CURB
ILLINOIS STREET
STOP
FE-30 Custom
FE-30 Custom
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
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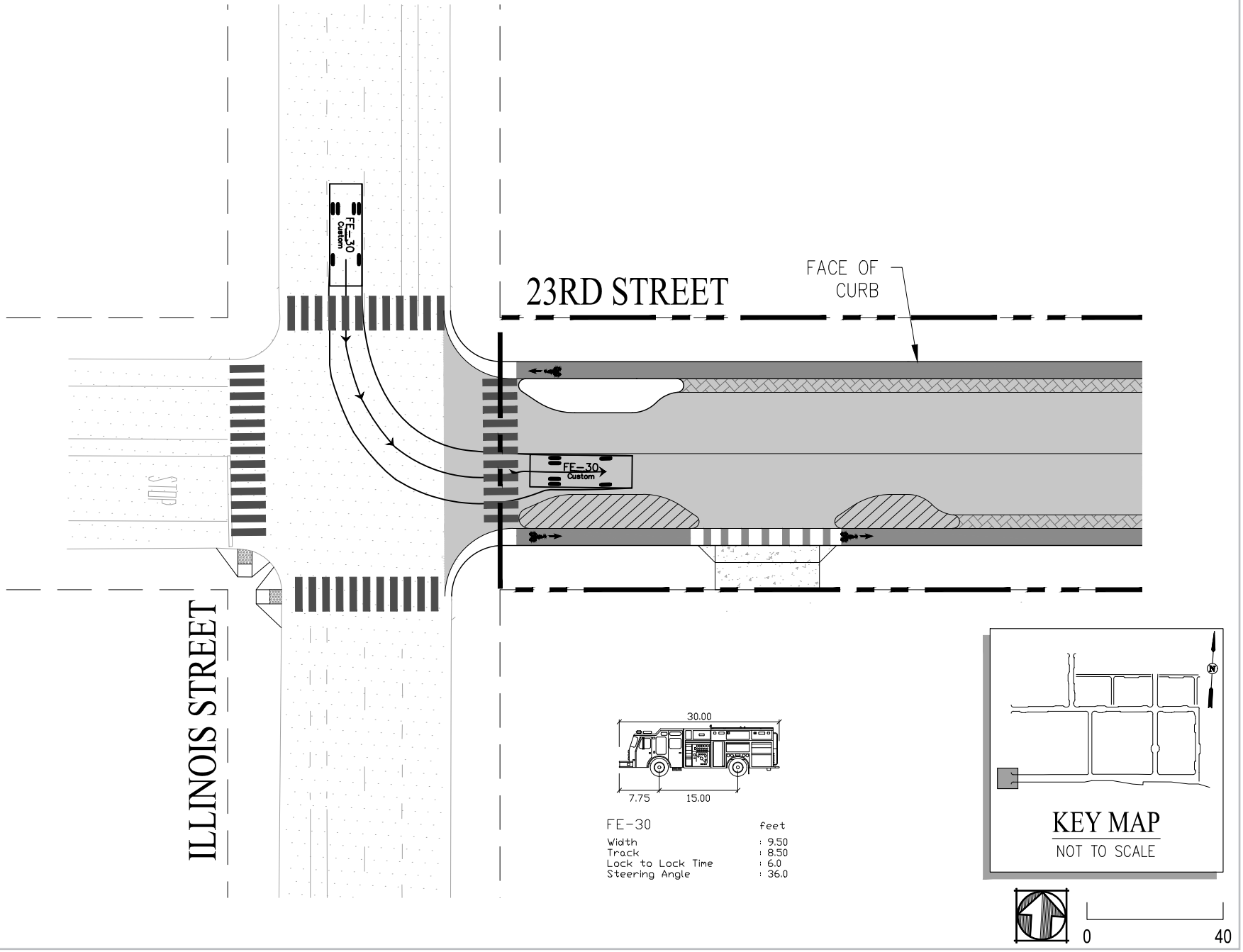
23RD STREET
FACE OF CURB
ILLINOIS STREET
STOP
FE-30 Custom
FE-30 Custom
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
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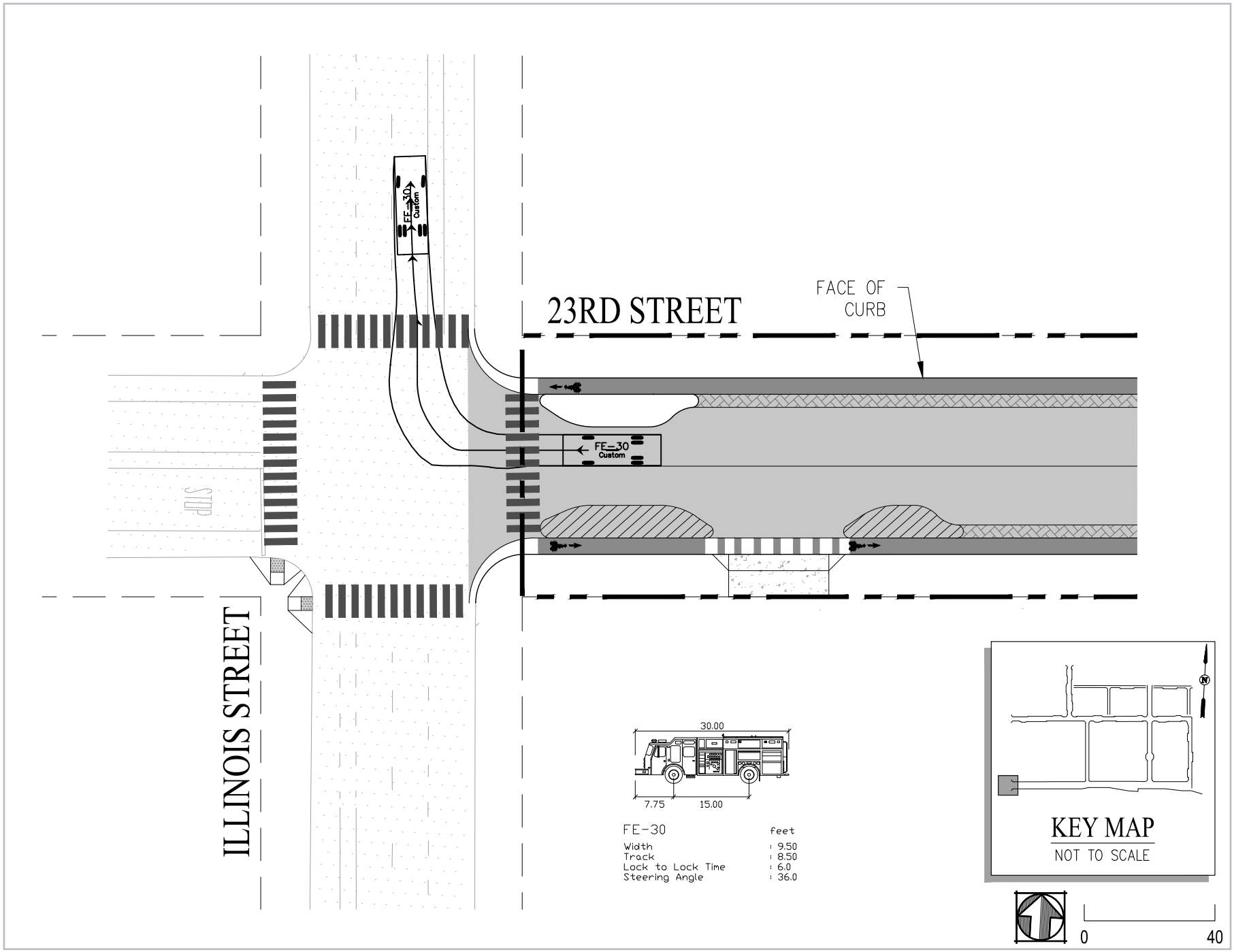
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FACE OF CURB
ILLINOIS STREET
FE-30 Custom
FE-30 Custom
STOP
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
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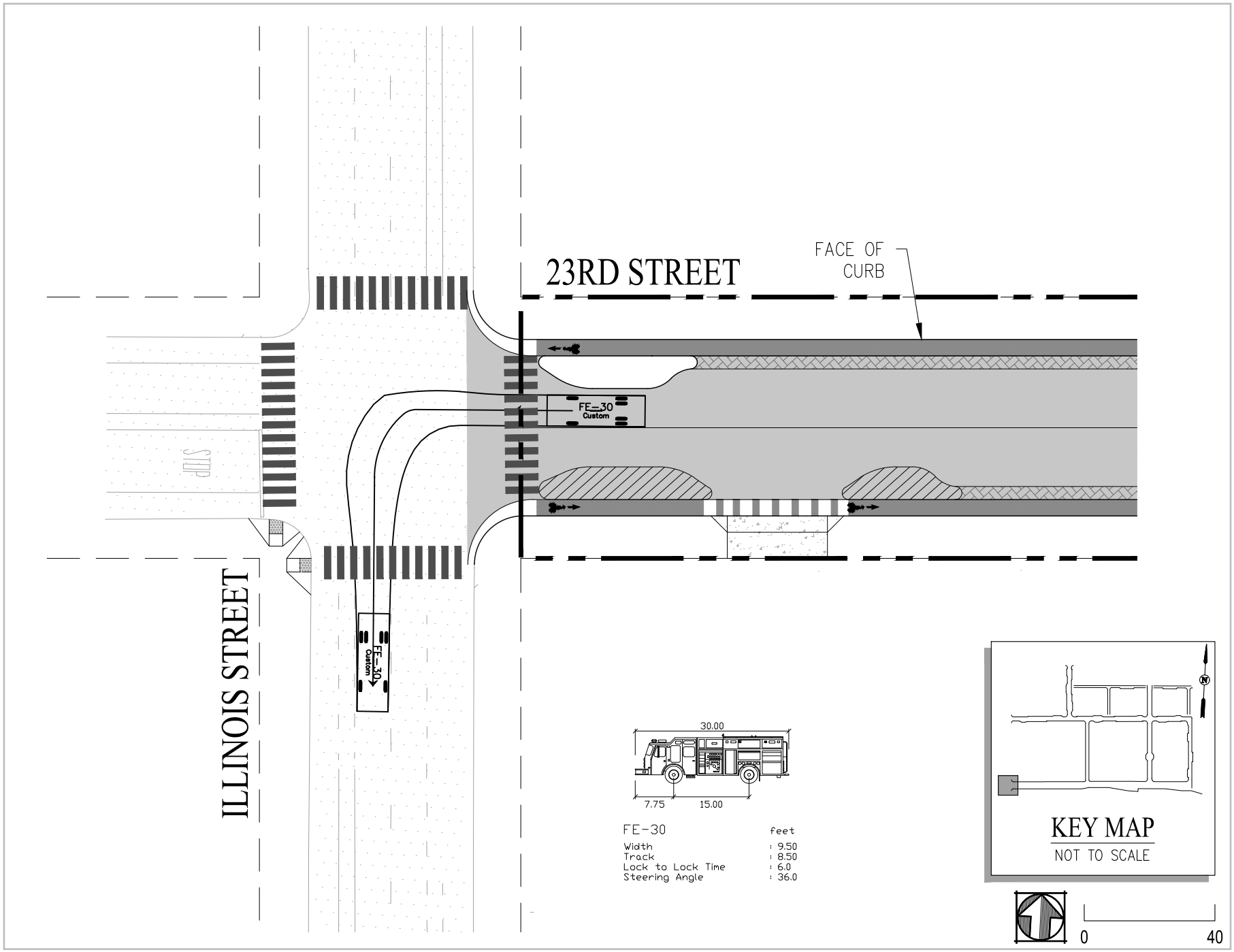
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FACE OF CURB
ILLINOIS STREET
STOP
FE-30 Custom
FE-30 Custom
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
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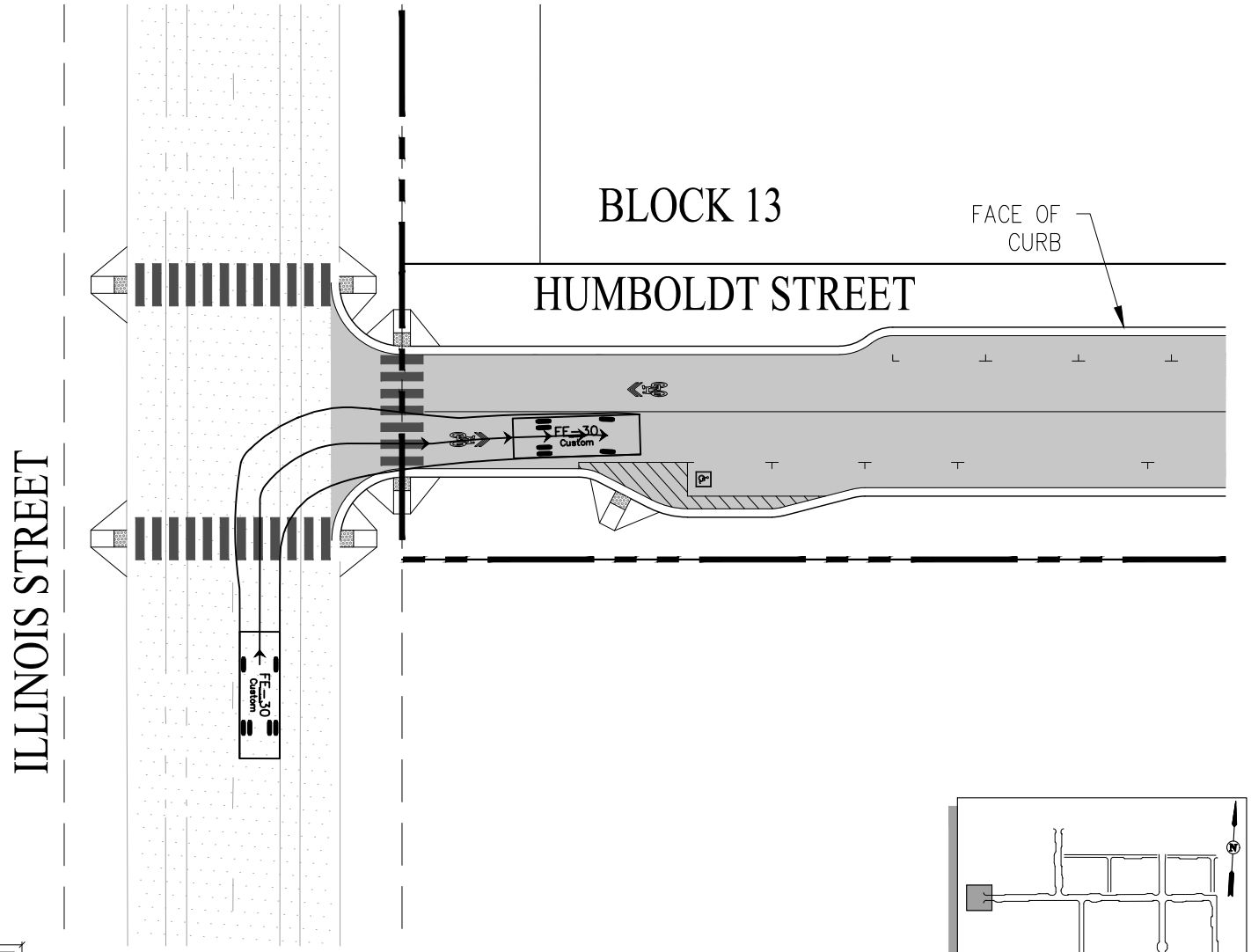

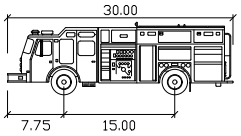

FE-30	feet
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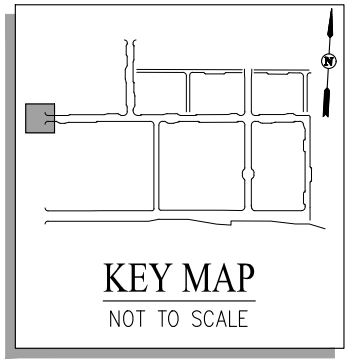
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.0



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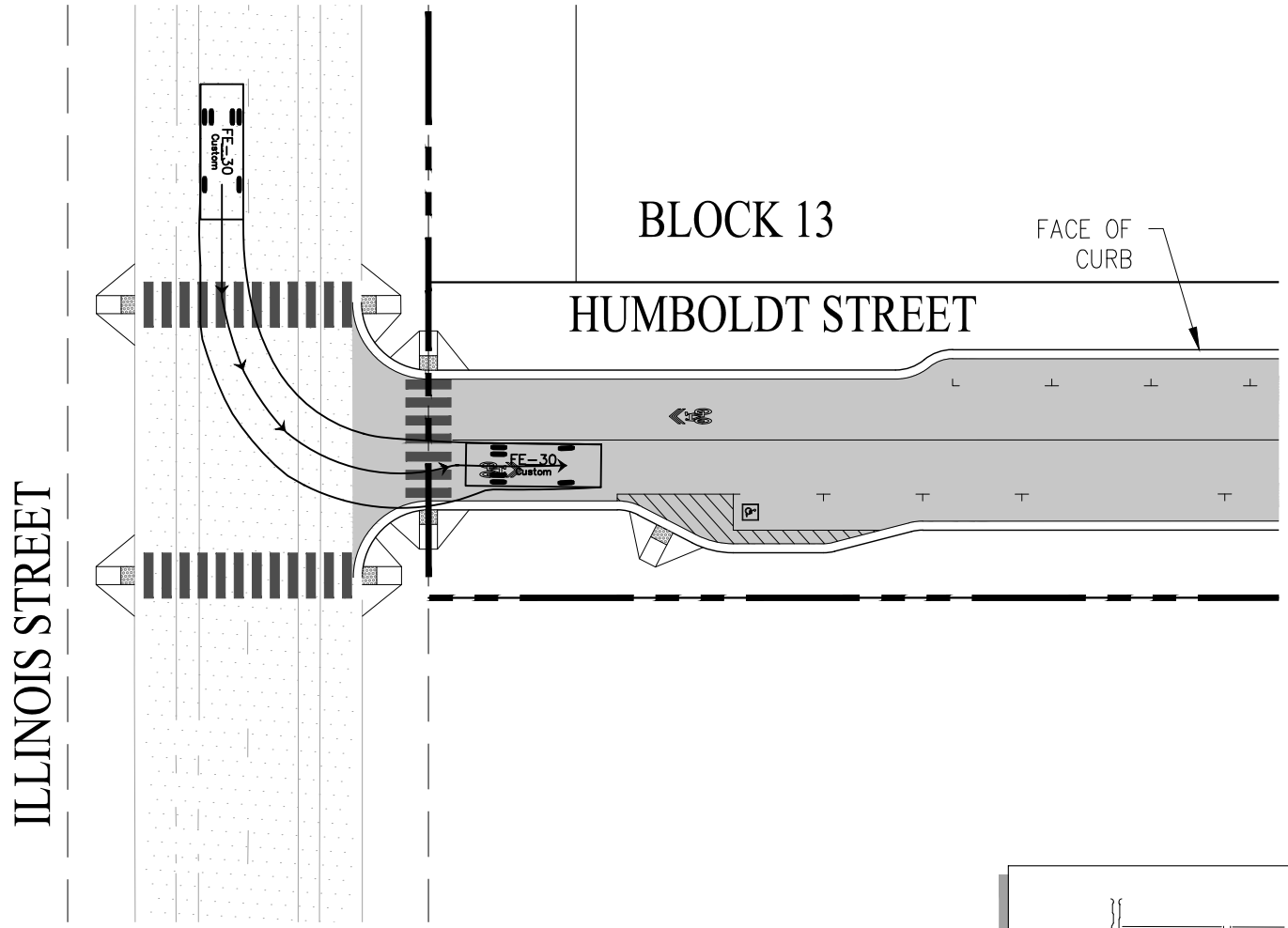

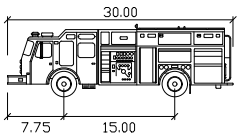

FE-30	feet
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Track	: 8.50
Lock to Lock Time	: 6.0
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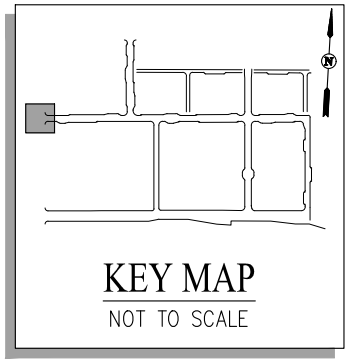

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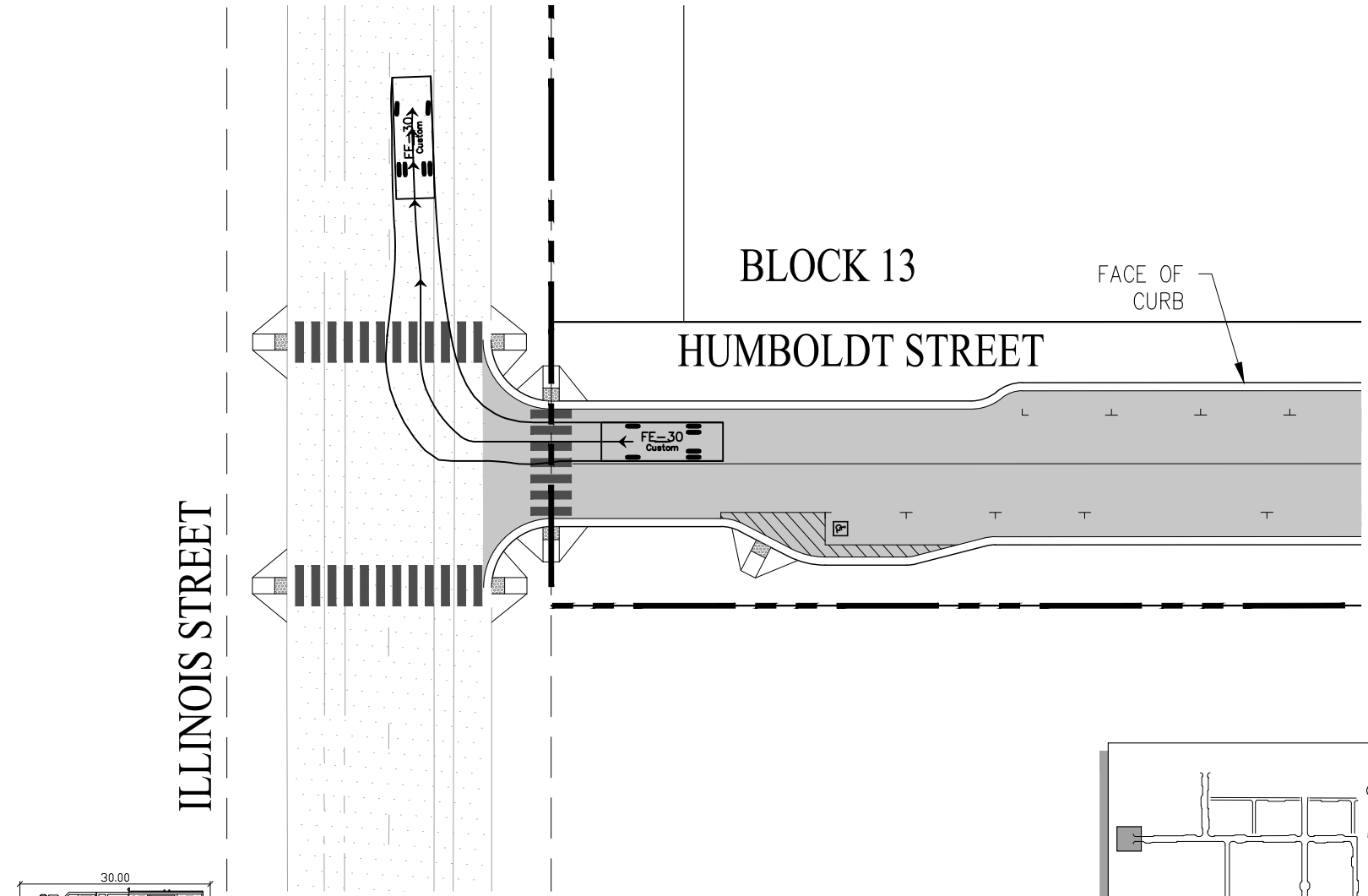
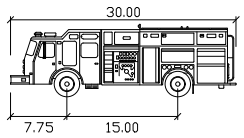
Appendix G Fire Truck Turning Movements





FE-30	feet
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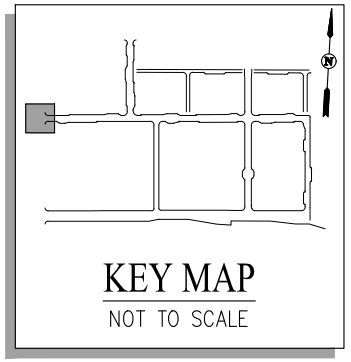
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.0



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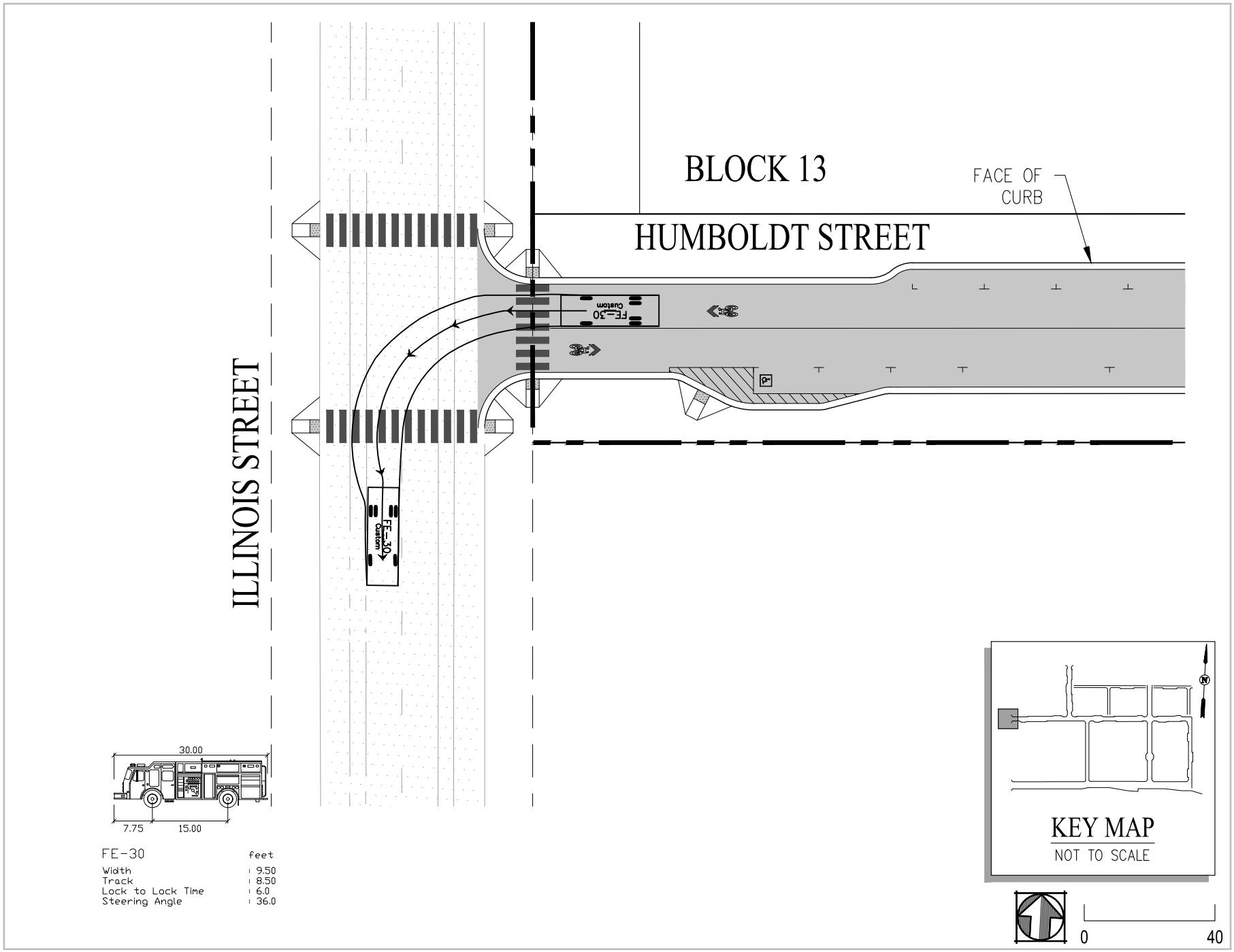
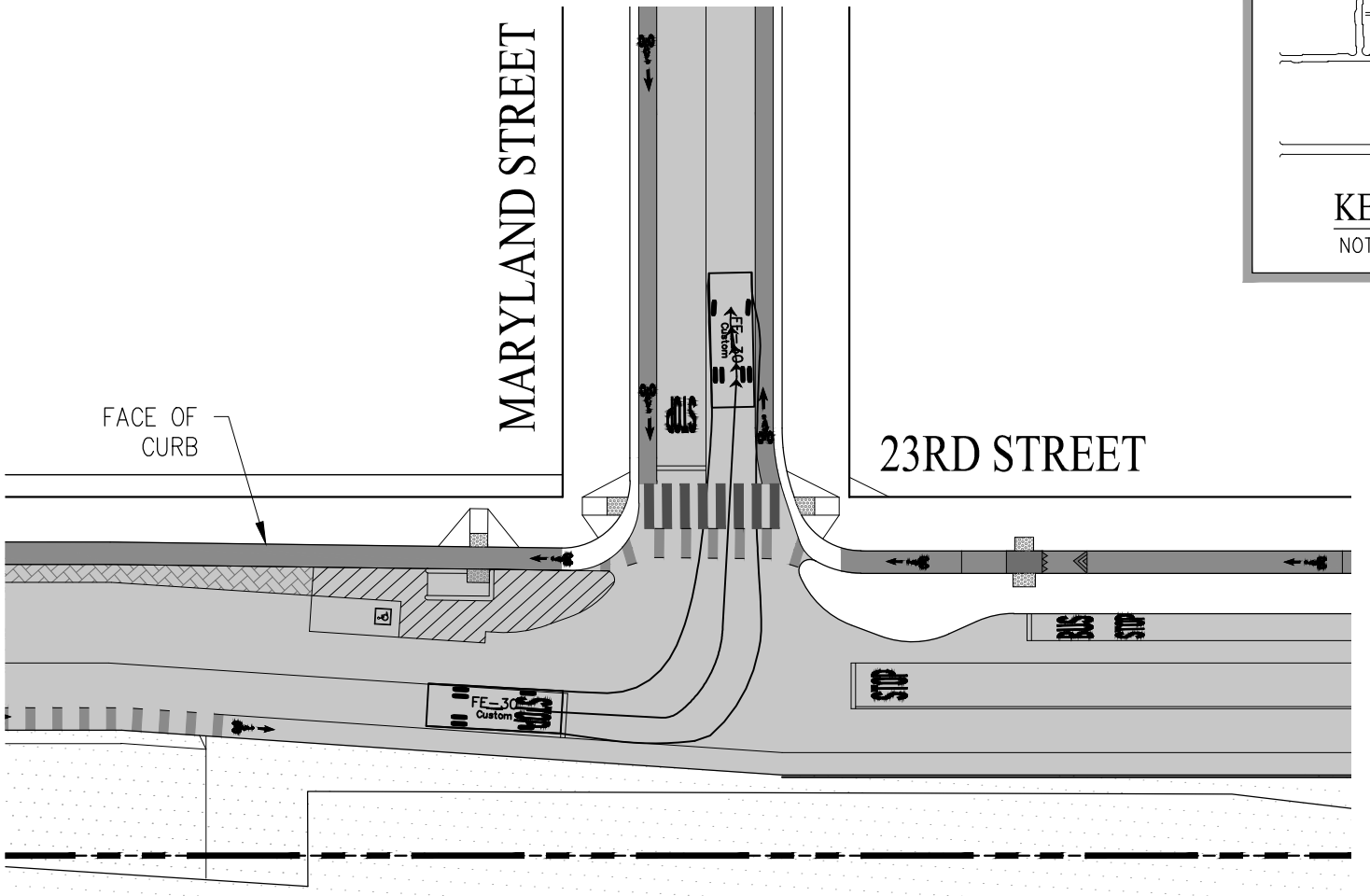
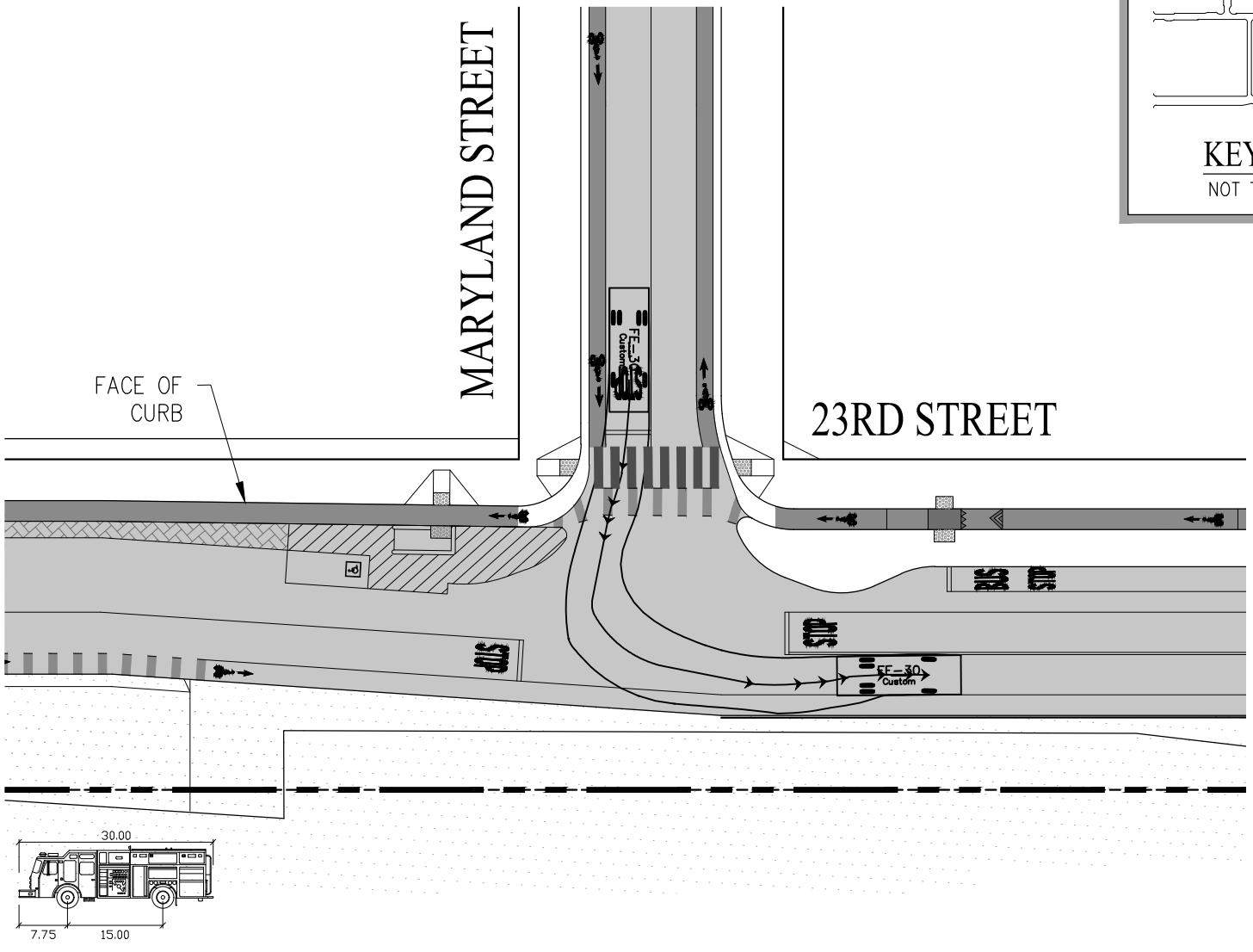
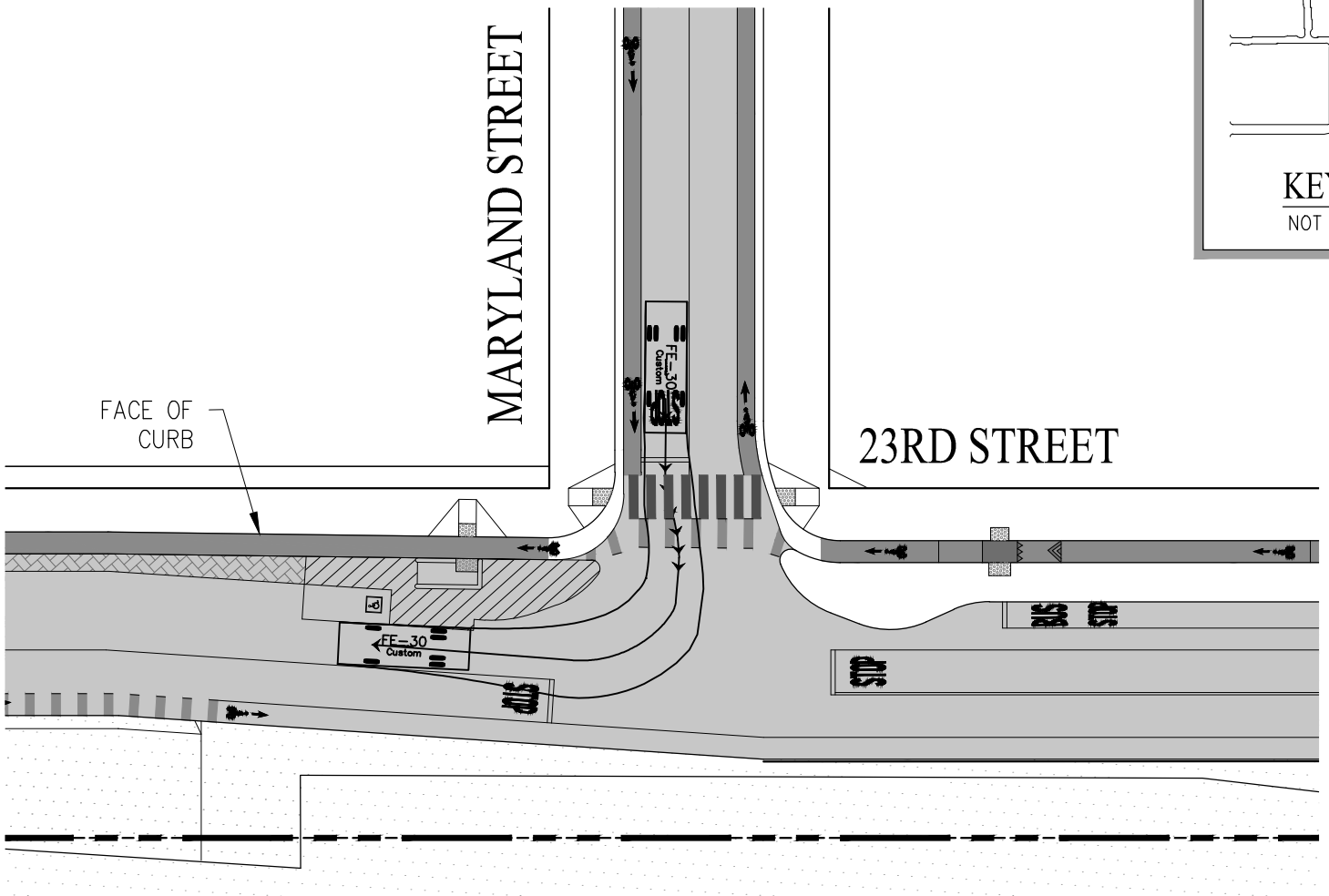
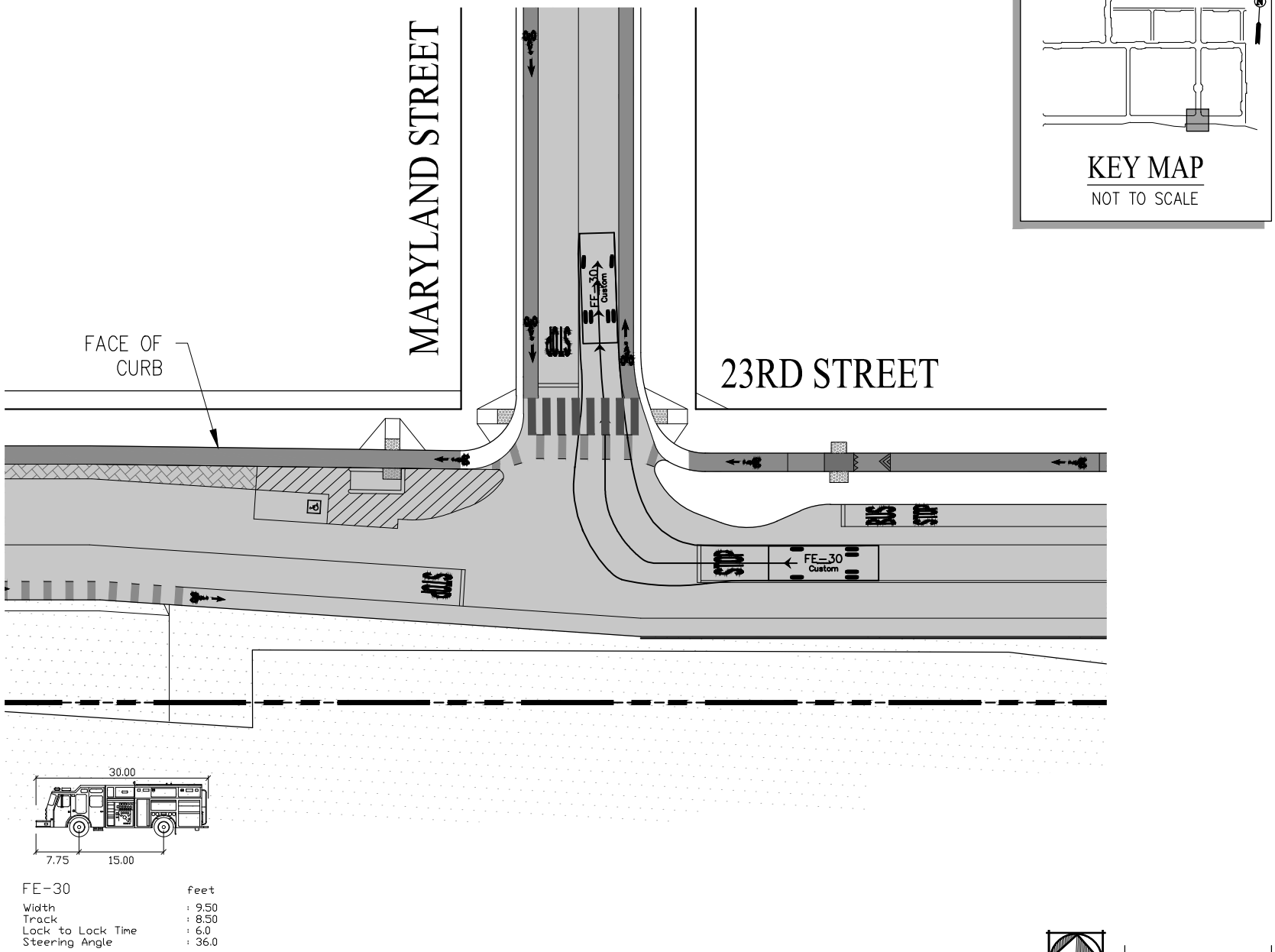
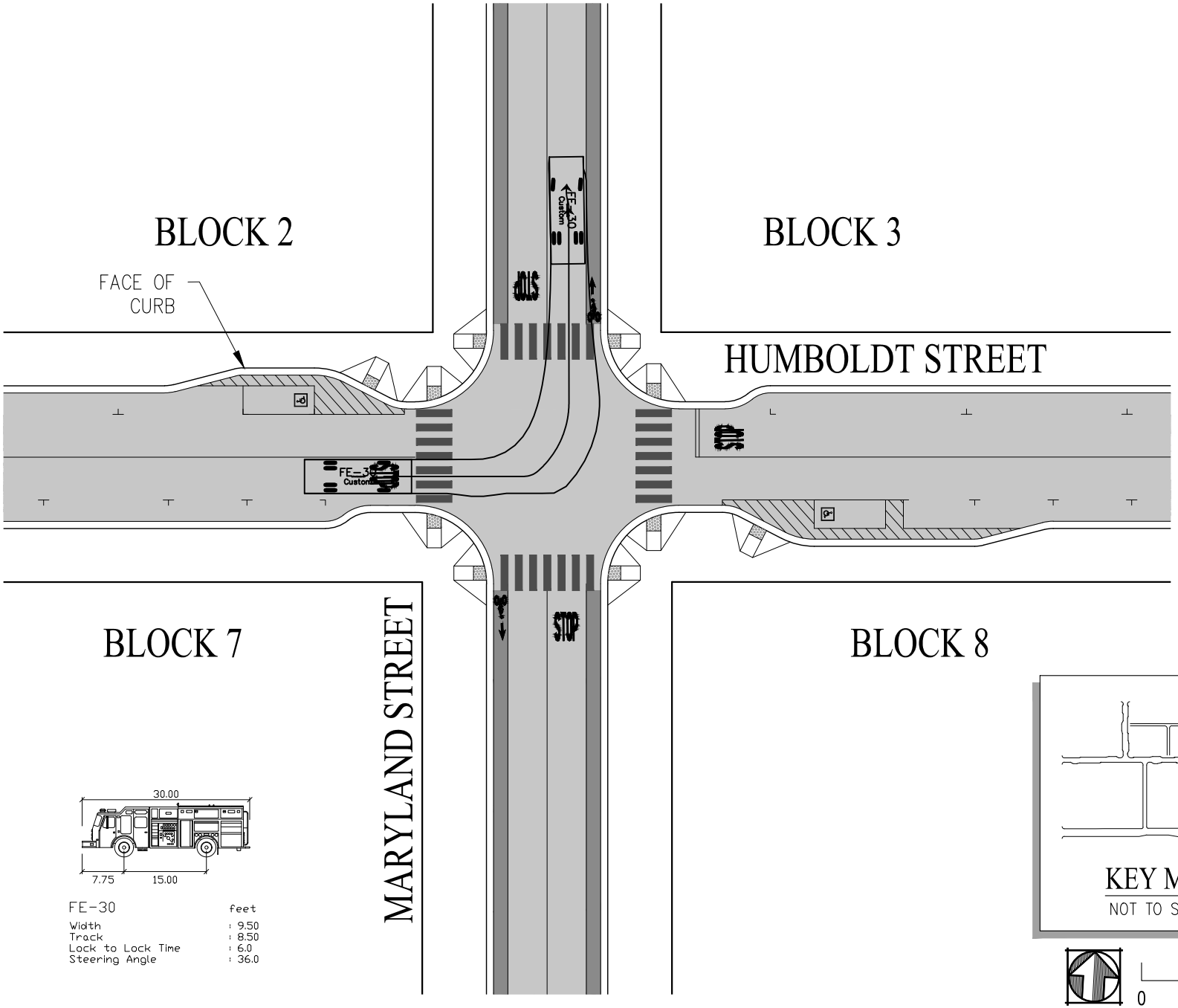

BLOCK 13
FACE OF CURB
HUMBOLDT STREET
ILLINOIS STREET
FE-30 Custom
FE-30 Custom
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
40

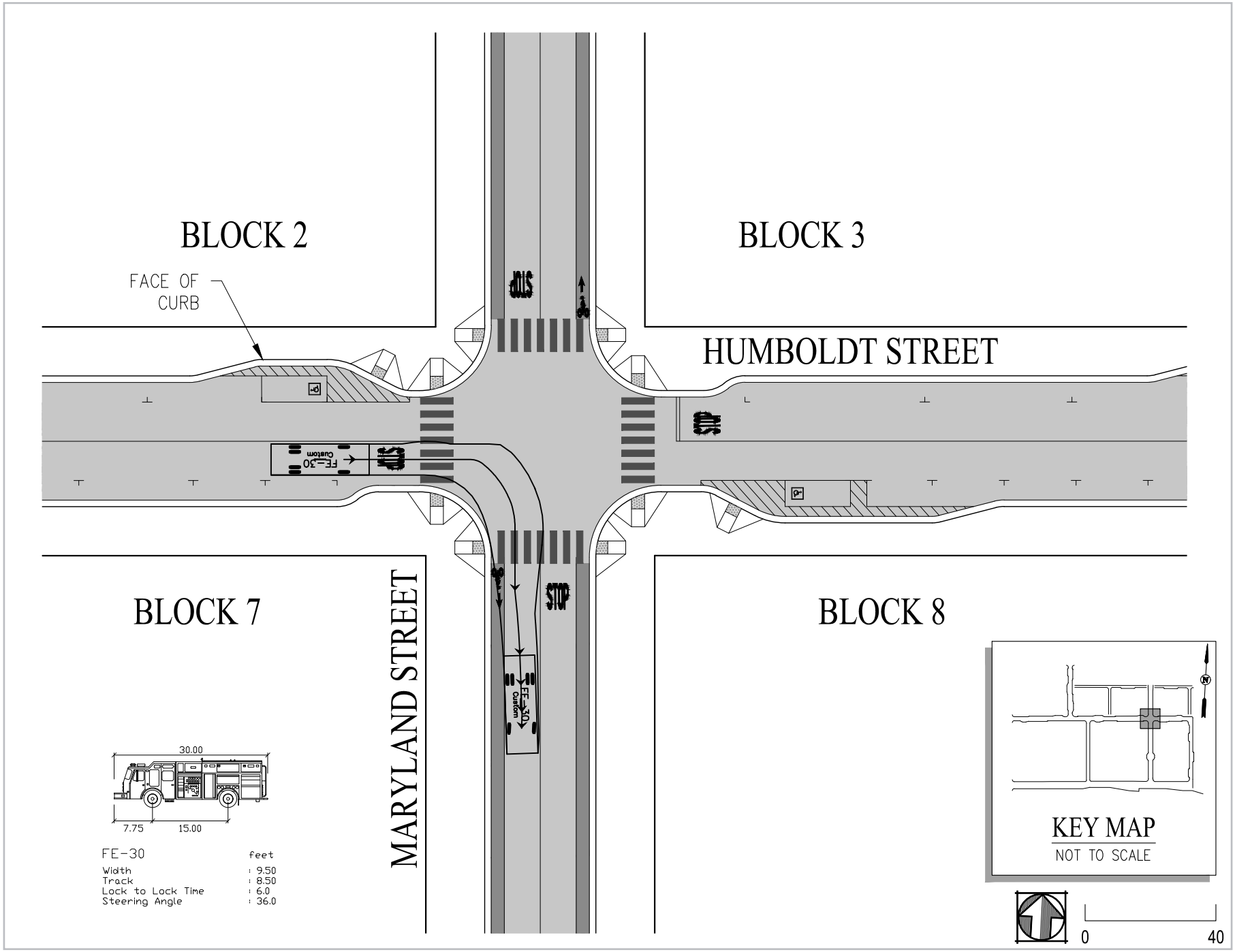

MARYLAND STREET
23RD STREET
FACE OF CURB
FE-30 Custom
FE-30 Custom
KEY MAP
NOT TO SCALE
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
0
40


MARYLAND STREET
23RD STREET
FACE OF CURB
FE-30 Custom
FE-30 Custom
KEY MAP
NOT TO SCALE
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
0
40


MARYLAND STREET
23RD STREET
FACE OF CURB
FE-30 Custom
FE-30 Custom
KEY MAP
NOT TO SCALE
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
0
40


MARYLAND STREET
23RD STREET
FACE OF CURB
STOP
FE-30 Custom
KEY MAP
NOT TO SCALE
30.00
7.75
15.00
FE-30 feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
0
40


BLOCK 2
BLOCK 3
FACE OF CURB
HUMBOLDT STREET
BLOCK 7
BLOCK 8
MARYLAND STREET
STOP
FE-30 Custom
FE-30 Custom
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
40


BLOCK 2
BLOCK 3
FACE OF CURB
HUMBOLDT STREET
STOP
STOP
FE-30 Custom
BLOCK 7
MARYLAND STREET
BLOCK 8
FE-30 Custom
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
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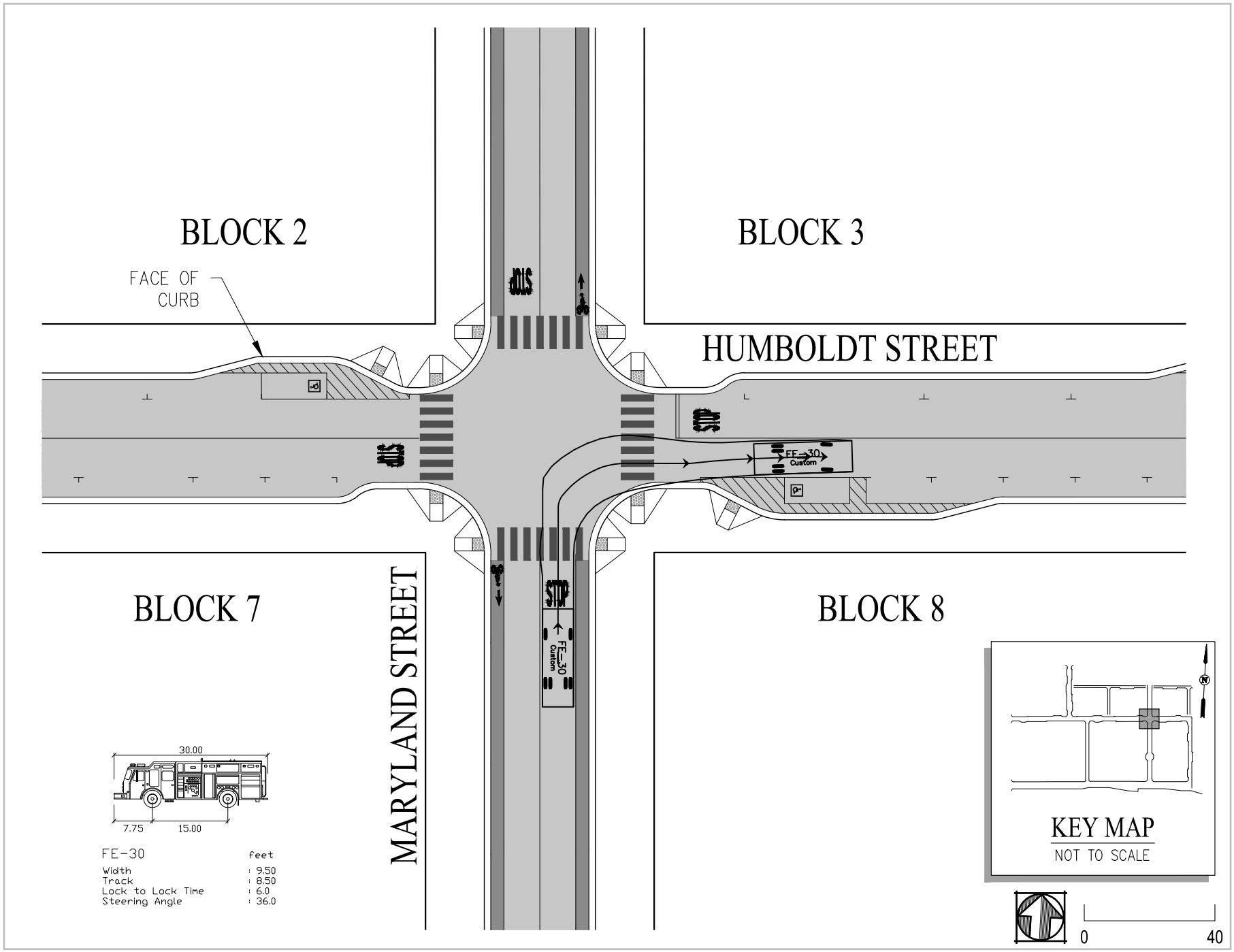
BLOCK 2
BLOCK 3
FACE OF CURB
HUMBOLDT STREET
FE-30 Custom
BLOCK 7
MARYLAND STREET
BLOCK 8
FE-30 Custom
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
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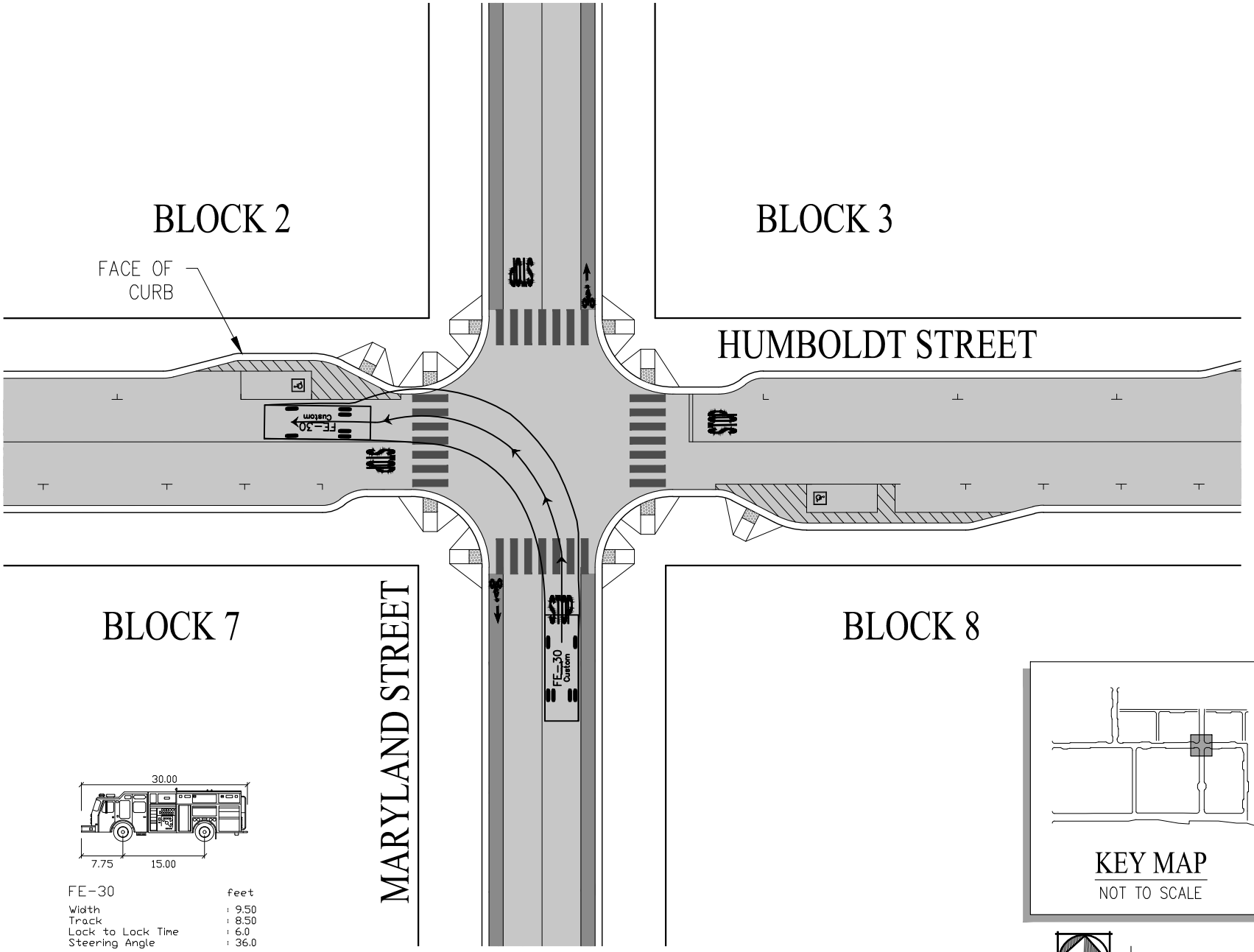
BLOCK 2
BLOCK 3
FACE OF CURB
HUMBOLDT STREET
BLOCK 7
MARYLAND STREET
BLOCK 8
FE-30 Custom
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
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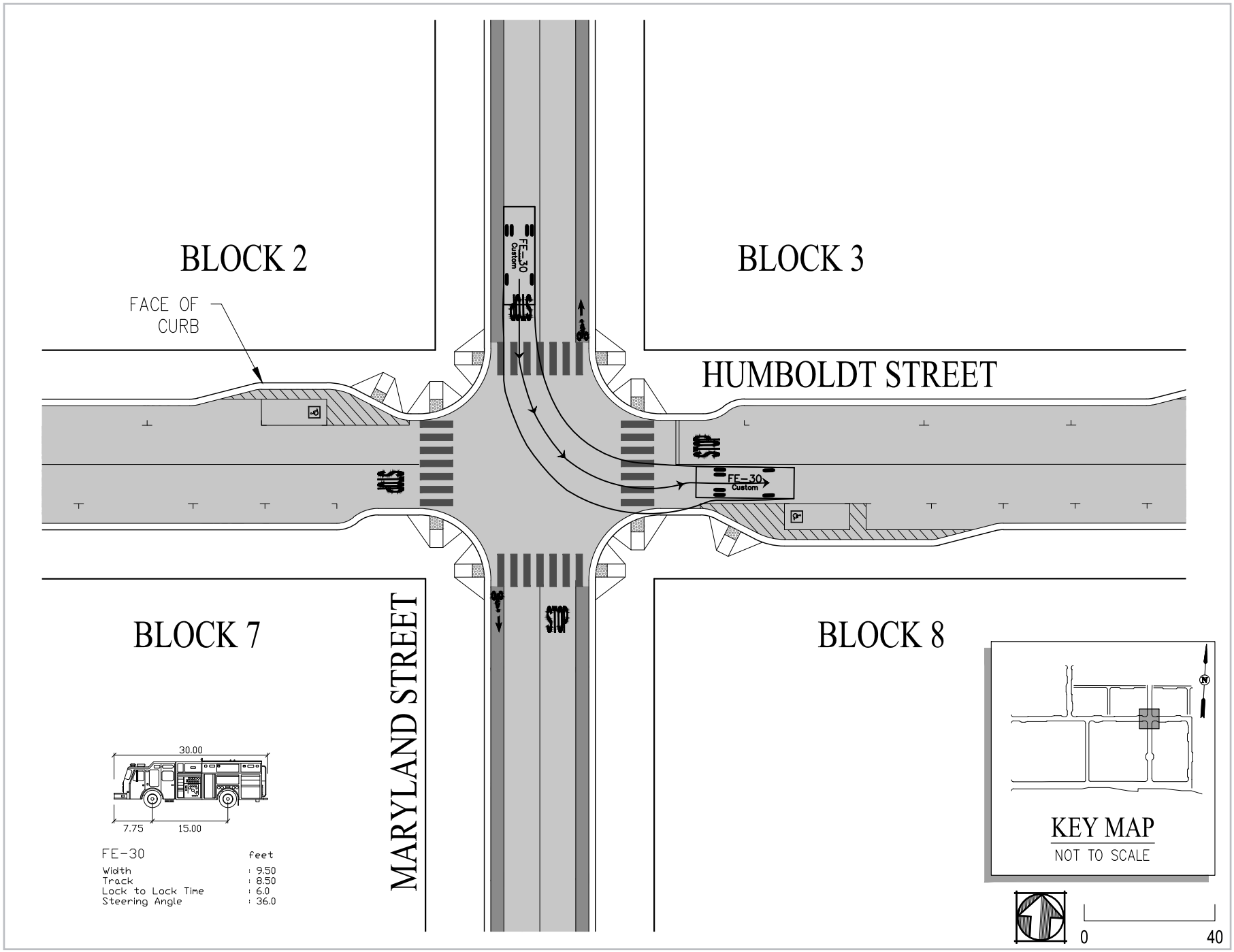
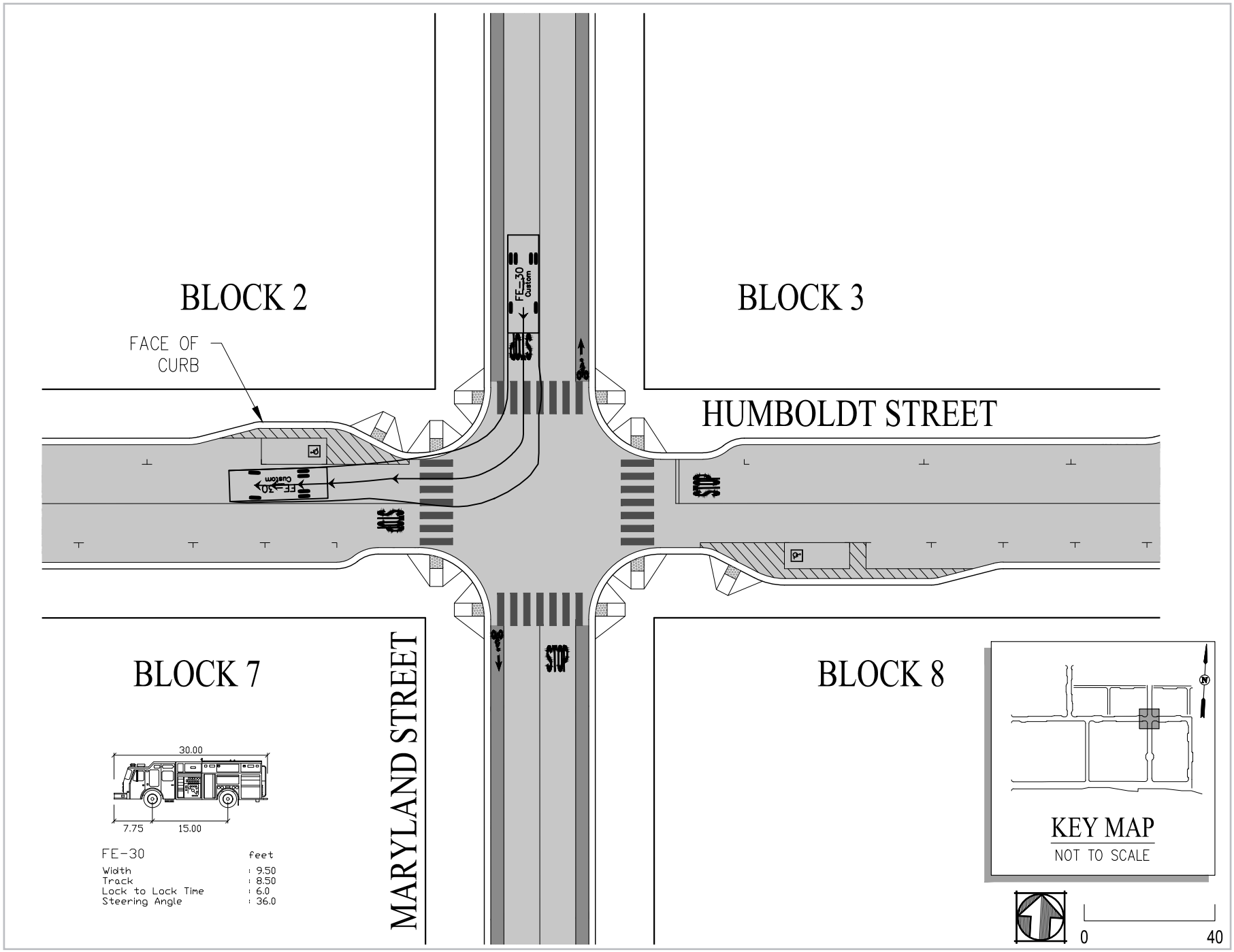

BLOCK 2
BLOCK 3
FACE OF CURB
HUMBOLDT STREET
FE-30 Custom
FE-30 Custom
BLOCK 7
BLOCK 8
MARYLAND STREET
STOP
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
40


BLOCK 2
BLOCK 3
FACE OF CURB
HUMBOLDT STREET
FE-30 Custom
STOP
BLOCK 7
BLOCK 8
MARYLAND STREET
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
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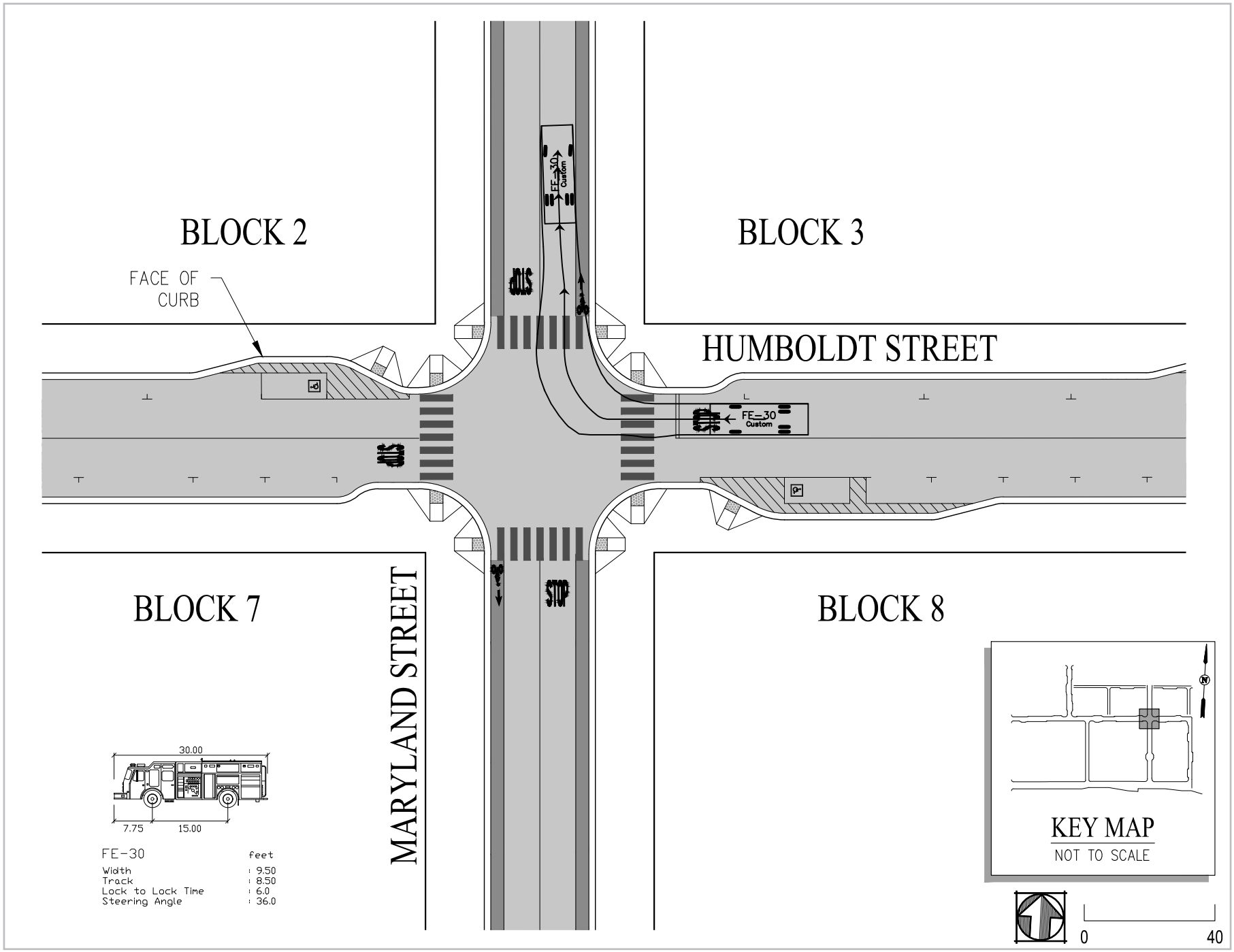
BLOCK 2
BLOCK 3
FACE OF CURB
HUMBOLDT STREET
FE-30 Custom
FE-30 Custom
STOP
STOP
BLOCK 7
BLOCK 8
MARYLAND STREET
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7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
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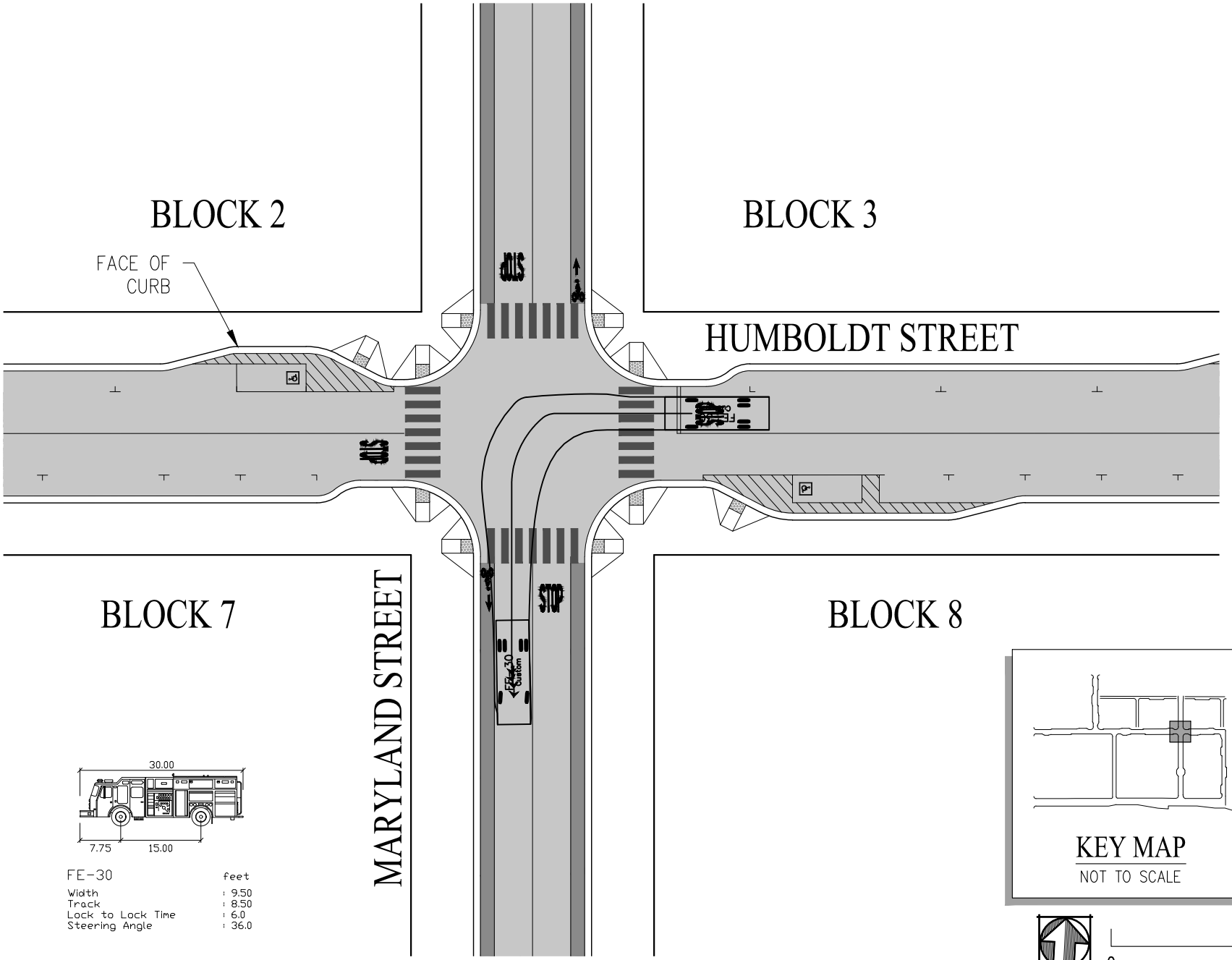
BLOCK 2
BLOCK 3
FACE OF CURB
HUMBOLDT STREET
BLOCK 7
BLOCK 8
MARYLAND STREET
STOP
STOP
30.00
7.75
15.00
FE-30
feet
Width : 9.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 36.0
KEY MAP
NOT TO SCALE
0
40