

SOIL REMOVAL PLAN
DRAFT - FINAL

**CANOGA PARK SENIOR HIGH SCHOOL
LOS ANGELES UNIFIED SCHOOL DISTRICT
6850 TOPANGA CANYON BOULEVARD
CANOGA PARK (LOS ANGELES), CALIFORNIA 91303**



Prepared for

**Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017**

September 20, 2023

Prepared by

PARSONS

100 W. WALNUT STREET • PASADENA • CALIFORNIA 91124

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Reviewed by:



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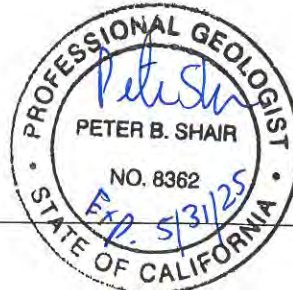
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9/20/2023

Date

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ACRONYMS

AOCs	Areas of Concern
Assessment Plan	Preliminary Endangerment Assessment – Equivalent Workplan for Soil Sampling
bgs	below ground surface
CCR	California Code of Regulations
COCs	chemicals of concern
Contractor	Remediation Contractor and/or Design Build Entity
Consultant	Environmental Consultant
CF	cubic foot (feet)
CY	cubic yard(s)
DTSC	California Department of Toxic Substances Control
ECO	ECO and Associates
ESA	Environmental Site Assessment
HASP	Health and Safety Plan
ft	feet
LAUSD	Los Angeles Unified School District
µg/dl	micrograms per deciliter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
OCP	organochlorine pesticides
OEHS	LAUSD Office of Environmental Health and Safety
OEHHA	Office of Environmental Health Hazard Assessment
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PE	California Professional Engineer (Civil)
PEA-E	Preliminary Environmental Assessment – Equivalent
PG	California Certified Professional Geologist
PM10	Particulate matter measuring 10 micrometers or less
PPE	personal protective equipment
PSL	Preliminary Screening Level
QA/QC	quality assurance/quality control
RACR	Removal Action Completion Report
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RSL	Residential Regional Screening Level
SCAQMD	South Coast Air Quality Management District
Site	Canoga Park Senior High School
STLC	Soluble Threshold Limit Concentration

ACRONYMS CON'T.

SCAQMD	South Coast Air Quality Management District
SMP	Soil Management Plan
SRP	Soil Removal Plan
TPH	Total Petroleum Hydrocarbons
UCL	upper confidence limit
USA	Underground Services Alert
USEPA	United States Environmental Protection Agency
VOCs	volatile organic compounds

EXECUTIVE SUMMARY

This document presents a *Soil Removal Plan* (SRP) for the removal of lead- and/or arsenic-impacted shallow soil located within the Los Angeles Unified School District (LAUSD) Major Modernization project footprint at Canoga Park Senior High School, 6850 Topanga Canyon Boulevard in Canoga Park, California 91303 (Site).

A *Preliminary Environmental Assessment-Equivalent Report* (PEA-E) was prepared to characterize environmental impacts present in Site soils in the proposed project areas. The PEA-E ruled out all chemicals of concerns except for lead and arsenic. The PEA-E recommended the development of this SRP to provide direction to manage the identified shallow lead and/or arsenic-impacted soil. The SRP includes:

- A summary of the recent environmental work done for this project.
- Justification for preliminary screening levels.
- Public participation requirements.
- Impacted soil excavation, storage, transportation, and disposal activity requirements.
- Cost Estimate.
- Confirmation soil sampling requirements.
- Soil Removal Completion Report required components.

An estimated 280 cubic yards (CYs) of soil at 12 areas of concern are impacted based on the results of the field investigation. Approximately 180 CYs can be managed as non-hazardous waste (above preliminary screening levels, but non-hazardous) and approximately 100 CYs can be managed as non-Resource Conservation and Recovery Act [hazardous in California] hazardous waste. The requirements of South Coast Air Quality Management District Rule 1466 must be complied with during the removal of this soil.

All soil excavation and disposal activities will be completed by a properly licensed Remediation Contractor under the oversight of an Environmental Consultant selected by LAUSD's Office of Environmental Health and Safety.

1.0 INTRODUCTION

This *Soil Removal Plan* (SRP) is for the removal of lead- and arsenic-impacted shallow soil located within the Los Angeles Unified School District (LAUSD) Major Modernization project footprint at Canoga Park Senior High School (Site), 6850 Topanga Canyon Boulevard in Canoga Park, California 91303 (**Figure 1**). **Figure 2** is an aerial view of the high school property.

A *Phase I Environmental Site Assessment Report* (ESA) was prepared by Eco & Associates for the school in 2019 (ECO, 2019). Based on the recommendations of the Phase I ESA, and the requirements of South Coast Air Quality Management District (SCAQMD) Rule 1466 (SCAQMD, 2017), a *Preliminary Endangerment Assessment-Equivalent Work Plan for Soil Sampling* (Assessment Plan) was prepared (Parsons, 2023a) to characterize potential environmental impacts present in Site soils in the proposed project areas. A *Preliminary Environmental Assessment – Equivalent Report* (PEA-E) (Parsons, 2023b) documented the results of the approved work activities described in the Assessment Plan.

The work described in the *PEA-E* was completed as part of LAUSD’s plan to determine if historical or recent activities or materials have adversely impacted the surface soil or shallow soil (0 to 3 feet below ground surface [bgs]), prior to grading and construction for the proposed Site modernization activities. LAUSD is proposing the following for the Site (the “Project”):

- Demolition of Cafeteria Building and Lunch Shelter, 12 classrooms in portables and permanent buildings, Shop Building #1 and 3 J-Buildings.
- Construction of new Food Services/Classroom Building including 12 new classrooms with associated support spaces and covered walkways.
- Construction of new Home Restrooms/Concessions/Maintenance & Operations Building.
- Construction of new Visitors’ Restrooms/Concessions Building.
- Exterior painting of all remaining buildings to provide a uniform appearance.
- Associated sitework, utilities, landscaping as required for new construction.
- Interim housing as required.
- Barrier removal to comply with Americans with Disability Act.

The PEA-E identified lead and arsenic as the chemicals of concern (COCs) for the project. The PEA-E also concluded that the requirements of SCAQMD Rule 1466 apply to the removal of the soil with elevated arsenic and lead concentrations.

This SRP was developed to address shallow soil impacted with lead and/or arsenic identified in the PEA-E. The SRP includes the following: a summary of the PEA-E; justification for preliminary screening levels; requirements for public participation; excavation activities; storage and transportation of soil; confirmation sampling; and requirements of a Soil Removal Completion Report. The SRP assumes that all of the excavation and disposal activities will be completed by a properly licensed Remediation Contractor (Contractor) under the oversight of an Environmental Consultant (Consultant) selected by LAUSD’s Office of Environmental Health and Safety

(OEHS). The Contractor will be responsible for providing all documents necessary for the Consultant to prepare and submit a Removal Action Completion Report (RACR) to LAUSD.

2.0 SUMMARY OF PEA-E

2.1 SITE SUMMARY

Canoga Park Senior High School had approximately 1,500 students in the grades 9-12, five (5) administrators, seventy-eight (78) teachers, and thirty-nine (39) support staff in the 2021-2022 school year. The campus initially opened in 1915 as Owensmouth High School and currently consists of 19 permanent buildings, 16 portable buildings, an athletic field, paved driveways and parking areas, and landscaping. The Site is approximately 21.4 acres within Assessor Parcel Number 2138-001-900 and located at 6850 Topanga Canyon Boulevard, Canoga Park, CA 91303.

The Site elevation is approximately 796 feet above sea level. The Site is bound by Vanowen Street on its southern side, Jordan Avenue on its eastern side, Hart Street on its northern side, and Topanga Canyon Boulevard on its western side. Two concrete-lined channels cross the Site. Bell Creek enters the Site at the northwest corner and Calabasas Creek enters the Site at the central portion of the southern boundary. The confluence of both creeks forms the beginning of the Los Angeles River at the central portion of the eastern site boundary. Based on records search conducted on the Los Angeles County, Department of Public works well database (<http://dpw.lacounty.gov/general/wells/#>), the groundwater beneath the Site is located at a depth range of between 763 and 786 feet above sea level. This range is based on data obtained from two wells located approximately 0.5 miles northeast and 0.5 miles west of the Site, respectively. Depth to groundwater has ranged historically from 15 to 20 feet bgs (ECO, 2019). The groundwater flow direction beneath the Site is expected to flow toward the east, similar to the topographic gradient.

2.2 ASSESSMENT PLAN

The Assessment Plan was prepared (Parsons, 2023a) to characterize potential environmental impacts present in Site soils in the proposed project areas. Based on the former activities on the property, and age of the buildings, it was possible that the following were present in shallow soil:

- Lead-based paint (lead),
- Arsenic,
- Organochlorine pesticides (OCPs),
- Polychlorinated biphenyls (PCBs) from transformers, and
- Total petroleum hydrocarbons (TPH) from auto shop operations at the Site.

Note that sampling for TPH was limited to the driveway east of Shop Building #2 and did not include sampling for the hydraulic hoists within this building as this building is outside of the current project limits.

An additional objective of the Assessment Plan was to determine the applicability of SCAQMD Rule 1466. The following analytes were added to the sampling program for this reason:

- Cadmium, chromium, mercury, and nickel.
- Polycyclic Aromatic hydrocarbons (PAHs), and
- Asbestos

2.3 PEA-E

The work was conducted in general accordance with the Assessment Plan, applicable regulatory guidance, including the *Preliminary Endangerment Assessment Guidance Manual* prepared by the California Department of Toxic Substances Control (DTSC), and direction from LAUSD.

A total of 52 initial boring locations were sampled at depths of 0 to 0.5-, 1.5 to 2.0-, and 2.5 to 3.0-foot (ft) bgs. The samples at 2.0- and 3.0-ft bgs were placed on hold with the analytical laboratory pending the results of the 0.5-ft sample. After review of the initial data generated from the 0.5-foot samples where concentrations exceeded preliminary screening levels, 24 samples from deeper depths were analyzed for constituents that exceeded their respective action levels. After LAUSD and Parsons' review of the soil analytical data from the initial 52 borings, 68 step-out borings were also completed.

Analytical results for the soil samples were compared with risk-based screening levels to determine if the analytes are present at concentrations that may represent a potential health risk. The screening levels are referred to here and after as preliminary screening levels (PSLs). For direct exposures to soils, the DTSC's (2015) *Preliminary Endangerment Assessment Guidance Manual* states that risk-based screening levels used should be "the USEPA Regional Screening Level (RSL) for residential land use, modified as necessary by the DTSC in HHRA Note 3." Thus, the screening levels used here are, in general, the USEPA RSLs (2023) unless DTSC (2022) has published a screening value of its own, termed the DTSC-SLs. PSLs for OCPs, PCBs, polycyclic aromatic hydrocarbons (PAHs), and volatile organic compounds (VOCs) were determined in this way. Procedures prescribed by the San Francisco Regional Water Quality Control Board were used to determine the PSLs for TPH. Constituents with special considerations are discussed in more detail in Section 4.2 of the PEA-E (Parsons, 2023b).

2.3.1 Cleared Analytes

The following analytes were sampled for but were either not detected above their laboratory reporting limit, or if it detected, the result was below their respective PSL:

- Cadmium, nickel and mercury
- PAHs
- TPH
- VOCs
- Asbestos

2.3.2 Statistically Cleared Analytes

Given the spatial variability across a site, U.S. Environmental Protection Agency guidance recommends using the average concentration to represent a reasonable estimate of the concentration at a given location. The agency further recommends that due to the uncertainty associated with estimating a true average concentration, the 95 percent upper confidence limit of the arithmetic mean be used for this value. USEPA provides statistical software to determine a site-wide data evaluation: ProUCL.

Several analytes were detected above their respective PSLs. ProUCL was used to support that those individual detections above PSLs for the following analytes can be left in place when considered from a site-wide perspective:

- Hexavalent chromium,
- OCPs, and
- PCBs

2.3.3 Chemicals of Concern

The 95% UCL was calculated for soil samples with an arsenic result less than 30 milligrams per kilogram (mg/kg). ProUCL was used to support that arsenic detections below 30 mg/kg can be left in place when considered from a site-wide perspective. Step-out sampling was conducted at boring locations with an arsenic result exceeding 30 mg/kg to delineate impacts that were recommended for removal.

The 95% UCL was calculated for soil samples collected that did not exceed the Soluble Threshold Limit Concentration (STLC) for lead. ProUCL was used to support that lead detections that do not exceed the STLC threshold of 5.0 mg/L can be left in place when considered from a site-wide perspective. Step-out sampling was conducted at 4 sample locations with lead results that exceeded 5.0 mg/L for STLC to delineate impacts that were recommended for removal.

An estimated 280 cubic yards (CYs) of soil at 12 locations are impacted by arsenic and/or lead based on the results of the field investigation. The PEA-E did not identify any soil that would be defined as hazardous by the federal Resource Conservation and Recovery Act (RCRA). The PEA-E did identify approximately 180 CYs of soil that must be managed as non-hazardous waste (above PSL, but non-hazardous) and approximately 100 CYs of soil that must be managed as non-RCRA [hazardous in California] hazardous waste.

The PEA-E concluded that the requirements of SCAQMD Rule 1466 apply to the soil with elevated arsenic and/or lead concentrations.

3.0 SCREENING LEVELS FOR ARSENIC AND LEAD

Potential exposures to the COCs in soil could result from direct contact, i.e., dermal contact with soil, incidental ingestion of the affected soil, as well as the inhalation of airborne dust particulates.

3.1 ARSENIC

At the concentrations observed in soils at the Site, exposure to arsenic is unlikely to be life threatening from short-term exposures. Rather, longer-term exposures to the relatively low concentrations within the Project Area may result in skin cancer and cancer in the lungs, bladder, liver, kidney, and prostate; inhalation can increase the risk of lung cancer. Other effects that may occur but are less likely from exposures to these lower concentrations include nausea and vomiting, decreased production of red and white blood cells, abnormal heart rhythm, damage to blood vessels, and a sensation of “pins and needles” in hands and feet (ATSDR, 2007a).

The residential risk-based screening levels from USEPA (2023) and DTSC (2022) of 0.68 and 0.11 milligrams per kilogram (mg/kg), respectively, are well below background concentrations. DTSC (2020) conducted a statistical evaluation of background data for arsenic in soils from Los Angeles, Orange, Riverside, San Bernardino, and San Diego Counties to derive an upper bound background threshold value for arsenic. Based on an evaluation of 1,086 data points, the DTSC (2020) derived a background threshold value for arsenic of 12 mg/kg, which is used here as the arsenic screening level.

Soluble arsenic above the State and federal limits of 5 mg/L per their respective methods are considered hazardous. For this reason, 5 mg/L of arsenic is also a screening level for this SRP.

3.2 LEAD

Lead is a bio-accumulative substance and a reproductive and developmental toxin. At the concentrations observed in soils at the Site (i.e., up to 110 mg/kg), lead is unlikely to be life threatening from short-term exposures. Rather, longer-term exposures to the relatively low concentrations within the Project Area may result in decreased performance in some tests that measure functions of the nervous system, including intelligence quotient tests. It may also cause weakness in fingers, wrists, or ankles. Lead exposure also causes small increases in blood pressure, particularly in middle-aged and older people and can cause anemia (ATSDR, 2007b).

Adverse health effects associated with exposure to lead have been correlated with concentrations of lead in whole blood. Although USEPA uses 10 micrograms per deciliter (µg/dl) as the threshold level of concern, California (OEHHA 2007) uses 1 µg/dl. A screening level of 80 mg/kg is protective of a 90th percentile estimate of 1 µg/dl blood lead concentration in children was calculated by Cal EPA (OEHHA 2009), which is used by DTSC (2022). This standard represents the concentration of lead in soil that will result in a 90th percentile estimate of a 1 µg/dl increase

in blood lead in the most sensitive receptor (i.e., child or fetus). DTSC (2022) states that individual samples may exceed 80 mg/kg, as long as the 95% UCL is below 80 mg/kg and hot spots are not present.

Soluble lead above the State and federal limits of 5 mg/L per their respective methods are considered hazardous. For this reason, 5 mg/L of arsenic is also a screening level for this SRP.

4.0 NATURE, SOURCE AND EXTENT OF IMPACTS

There are twelve Areas of Concern (AOCs) identified within the Project Area that have soil containing lead and/or arsenic that exceed their PSLs (i.e., require removal). This SRP has been prepared to establish procedures to address the areas impacted by lead and/or arsenic. The approximate excavation areas are shown on **Figures 3a to 3l**, and include the following:

- 4.1.1 AOC-1 (Figure 3a):** AOC-1 is located east of Building J-219. The excavation in this area addresses soil with non-RCRA hazardous concentrations of soluble arsenic and non-hazardous concentrations of arsenic above the PSL. The excavation limits are undefined in all lateral directions. The existing building prevented step-out sampling to the west of the initial boring (SB-34) and utilities prevented sampling to the east and south. An additional 6 sidewall confirmation samples have been proposed for the northern, southern, western and eastern excavation boundaries to supplement existing data and ensure that arsenic-impacted soil has been removed. The proposed excavation contains non-RCRA hazardous soil as defined by the step-out sampling and is separated into two separate excavations, AOC-1-1 and AOC-1-2. Proposed excavation AOC-1-1 has a volume of approximately 128 cubic feet (CF), and non-RCRA hazardous soil will be removed to a total depth of 2 ft bgs (4.7 CY). AOC-1-2 has a volume of approximately 170 CF, non-RCRA hazardous soil will be removed from 0 to 2 ft bgs (4.2 CY), and non-hazardous soil will be removed from 2 to 3 ft bgs (2.1 CY).
- 4.1.2 AOC-2 (Figure 3b):** AOC-2 is located south of the existing cafeteria. The excavation in this area addresses soil with non-RCRA hazardous concentrations of soluble arsenic and non-hazardous concentrations of arsenic above the PSL. The excavation boundaries are laterally undefined in all directions. The existing building prevented step-out sampling to the north of the initial boring (SB-26). An additional 8 sidewall confirmation samples have been proposed for the northern, southern, western and eastern excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The proposed excavation contains both non-hazardous and non-RCRA hazardous soil as defined by step-out sampling and has been separated into five separate excavations, AOC-2-1 thru AOC-2-5. Proposed excavation AOC-2-1 has a volume of approximately 636 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (24 CY). Proposed excavation AOC-2-2 has a volume of approximately 134 CF, and non-RCRA hazardous soil will be removed to a total depth of 2 ft bgs (5.0 CY). Proposed excavation AOC-2-3 has a volume of 176 CF, and non-RCRA hazardous soil will be removed to a total depth of 2 ft bgs (6.5 CY). Proposed excavation AOC-2-4 has a volume of approximately 300 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (11 CY). Proposed excavation AOC-2-5 has a volume of approximately 348 CF, non-RCRA hazardous soil will be

removed from 0 to 2 ft bgs (8.6 CY), and non-hazardous soil will be removed from 2 to 3 ft bgs (4.3 CY).

- 4.1.3 AOC-3 (Figure 3c):** AOC-3 is located south of building AA-396. The excavation area addresses soil with non-RCRA hazardous concentrations of soluble lead. The extent of the excavation is defined to the east by boring SB-28-W10. The limits are undefined to the south (existing utilities prevented further step-out sampling), to the north (existing building prevented further step-out sampling), and to the east. An additional 5 sidewall confirmation samples have been proposed for the northern, southern and eastern excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The excavation volume is approximately 156 CF and non-RCRA hazardous waste will be removed to 2 ft bgs (5.8 CY).
- 4.1.4 AOC-4 (Figure 3d):** AOC-4 is located on the north side of Buildings A-798 and A-797. The excavation in this area addresses soil with non-RCRA hazardous concentration of soluble arsenic and non-hazardous concentrations of arsenic above the PSL. The excavation areas are partially defined to the north by step-out sample SB-5-NE5 and to the east by step-out sample SB-5-W5. A total of 6 sidewall confirmation samples have been proposed for the northern, southern, western and eastern excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The proposed excavation contains both non-hazardous and non-RCRA hazardous soil as defined by step-out sampling and has been separated into two separate excavations, AOC-4-1 and AOC-4-2. Proposed excavation AOC-4-1 has a volume of approximately 385 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (14 CY). Proposed excavation AOC-4-2 has a volume of approximately 77 CF, and non-RCRA hazardous soil will be removed to a total depth of 2 ft bgs (2.9 CY).
- 4.1.5 AOC-5 (Figure 3e):** AOC-5 is located on the west side of Building A-796. The excavation in this area addresses soil with non-RCRA hazardous concentrations of soluble arsenic and non-hazardous concentrations of arsenic above the PSL. The excavation area is delineated to the south by step-out borings SB-7-SW25, SB-7-SW20, and SB-7-S20. The existing building prevented step-out sampling to the west. A total of 4 sidewall confirmation samples have been proposed for the northern, western and eastern excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The proposed excavation contains both non-hazardous and non-RCRA hazardous soil as defined by step-out sampling and has been separated into two separate excavations, AOC-5-1 and AOC-5-2. Proposed excavation AOC-5-1 has a volume of approximately 823 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (31 CY). Proposed excavation AOC-5-2 has a volume of approximately 208 CF, and non-RCRA hazardous soil will be removed to a total depth of 2 ft bgs (7.7 CY).

- 4.1.6 AOC-6 (Figure 3f):** AOC-6 is located on the northwest side of Building AA-293. The excavation in this area addresses soil with non-RCRA hazardous concentrations of soluble lead and non-hazardous concentrations of arsenic above the PSL. The excavation area is laterally undefined. The existing building prevented step-out sampling to the south and Bell Creek prevented step-out sampling to the northeast. A total of 6 sidewall confirmation samples have been proposed for the excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The proposed excavation contains both non-hazardous and non-RCRA hazardous soil as defined by step-out sampling and has been separated into four separate excavations, AOC-6-1, AOC-6-2, AOC-6-3, and AOC-6-4. Proposed excavation AOC-6-1 has a volume of approximately 36 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (1.3 CY). Proposed excavation AOC-6-2 has a volume of approximately 136 CF, and non-hazardous soil will be removed to a total depth of 3 ft bgs (5.0 CY). Proposed excavation AOC-6-3 has a volume of approximately 271 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (10 CY). Proposed excavation AOC-6-4 has a volume of approximately 305 CF, non-RCRA hazardous soil will be removed from 0 to 2 ft bgs (7.5 CY), and non-hazardous soil will be removed from 2 to 3 ft bgs (3.7 CY).
- 4.1.7 AOC-7 (Figure 3g):** AOC-7 is located south of building AA-293. The excavation area addresses soil with non-RCRA hazardous concentrations of soluble lead. The extent of the excavation is defined to the northwest by boring SB-3-NW5 and to the southwest by boring SB-3-SW10. The limits are undefined to the north (existing building prevented further step-out sampling), to the south, and to the east. An additional 4 sidewall confirmation samples have been proposed for the northeastern, southeastern, and southern excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The excavation volume is approximately 367 CF and non-RCRA hazardous waste will be removed to 2 ft bgs (14 CY).
- 4.1.8 AOC-8 Figure 3h):** AOC-8 is located east of the cafeteria and south of building J-131. The excavation area addresses soil with non-hazardous concentrations of arsenic above the PSL. The extent of the excavation is defined to the south by boring SB-20-S5. The limits of the excavation are undefined to the east (existing storage container prevented further step-out sampling), and to the north and east (utilities prevented further step-out sampling). An additional 3 sidewall confirmation samples have been proposed for the north, west, and east excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The excavation volume is approximately 283 CF and non-hazardous waste will be removed to 3 ft bgs (10 CY).
- 4.1.9 AOC-9 (Figure 3i):** AOC-9 is located on the western side of the athletic track. The excavation in this area addresses soil with non-hazardous concentrations of arsenic above the PSL. The excavation boundary is defined to the west by step-out boring SB-44-W5.

The excavation boundary was not defined to the east (existing water line prevented further step-out sampling), south, and north. A total of 5 sidewall confirmation samples and one bottom sample have been proposed for the excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The proposed excavation contains non-hazardous soil as defined by step-out sampling and has been separated into two separate excavations, AOC-9-1 and AOC-9-2. Proposed excavation AOC-9-1 has a volume of approximately 656 CF, and non-hazardous soil will be removed to a total depth of 3 ft bgs (24 CY). Proposed excavation AOC-9-2 has a volume of approximately 262 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (9.7 CY).

4.1.10 AOC-10 (Figure 3j): AOC-10 is located east of Bleachers #4. The excavation in this area addresses soil with non-RCRA hazardous concentrations of soluble arsenic and non-hazardous concentrations of arsenic above the PSL. The excavation area is undefined in all directions. A total of 6 sidewall confirmation samples have been proposed for the northern, southern, western, and eastern excavation boundaries and one bottom sample to supplement existing data and ensure that impacted soil has been removed. The proposed excavation contains both non-hazardous and non-RCRA hazardous soil as defined by step-out sampling and has been separated into two separate excavations, AOC-10-1 and AOC-10-2. Proposed excavation AOC-10-1 has a footprint of approximately 408 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (15 CY). Proposed excavation AOC-10-2 has a footprint of approximately 305 CF, and non-RCRA hazardous soil will be removed to a total depth of 3 ft bgs (11 CY).

4.1.11 AOC-11 (Figure 2k): AOC-11 is located west of building AA-290. The excavation in this area addresses soil with non-RCRA hazardous concentrations of soluble arsenic and non-hazardous concentrations of arsenic above the PSL. The excavation area is defined to the west by step-out boring SB-38-W10 and to the southwest by step-out boring SB-38-SW25. A total of 4 sidewall confirmation samples and have been proposed for the northern, southern, and eastern excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The proposed excavation contains both non-hazardous and non-RCRA hazardous soil as defined by step-out sampling and has been separated into two separate excavations, AOC-11-1 and AOC-11-2. Proposed excavation AOC-11-1 has a volume of approximately 119 CF, and non-hazardous soil will be removed to a total depth of 3 ft bgs (4.4 CY). Proposed excavation AOC-11-2 has a volume of approximately 617 CF, non-RCRA hazardous soil will be removed from 0 to 2 ft bgs (15 CY), and non-hazardous waste will be removed from 2 to 3 ft bgs (7.6 CY).

4.1.12 AOC-12 (Figure 3l): AOC-12 is located east of building AA-290. The excavation area addresses soil with non-RCRA hazardous concentrations of soluble lead. The extent of the excavation is defined to the north by boring SB-39-N10, to the east by boring SB-39-E5, and to the south by boring SB-39-S5. The limits are undefined to the west (existing building

prevented further step-out sampling). An additional 1 sidewall confirmation sample has been proposed for the western boundary to supplement existing data and ensure that impacted soil has been removed. The excavation volume is approximately 170 CF and non-RCRA hazardous waste will be removed to 2 ft bgs (6.3 CY).

The estimated excavation volumes in **Table 1** are a summary of the above-listed AOCs.

5.0 REMOVAL ACTION IMPLEMENTATION

The field procedures and methods that will be used to implement the removal action are described in this section. This section also specifies activities to be completed by the Remediation Contractor (Contractor) that will be handling the soil and the Environmental Consultant (Consultant) hired by OEHS to provide oversight and reporting services. Contractor also applies to the general contractor/design build entity responsible for completing the Project.

5.1 PUBLIC PARTICIPATION

5.1.1 SOIL REMOVAL PLAN

Like the PEA-E, two versions of this SRP are being created: a draft version and a final version. The difference between the two depends on if the public has had a chance to comment on the document as part of the California Environmental Quality Act (CEQA) approval process. The draft version is pre-public comment, and the final is post-public comment. The cover page of this document indicates which version of the document this is. The text of this section in this draft version will be revised to state the following:

- Where the draft PEA-E was posted online (likely to be <https://www.lausd.org/siteassessment>)
- When the public comment period occurred,
- Copies of all comments received, if any, and
- Responses to all comments in English and Spanish.

5.1.2 FIELDWORK

Prior to beginning fieldwork for the proposed removal action, the Consultant will distribute a SRP Work Notice to Canoga Park Senior High School students and staff and nearby residents and businesses (i.e., within line-of-sight). The notice will also be laminated and posted along the fence line of the project. The notice will be prepared in English and Spanish.

5.2 HEALTH AND SAFETY PLAN

At least two site-specific Health and Safety Plans (HASPs) will be prepared for the project: one by and for each involved Contractor and one by and for the Consultant. The HASPs will outline current safety standards as defined by the USEPA, the Occupational Safety and Health Administration, and the National Institute of Occupational Safety and Health. Additionally, the HASP will be prepared in accordance with guidelines set forth in Title 8 of CCR Section 5192.

Prior to the commencement of each day's activities, a tailgate health and safety meeting will be held. Everyone on-site working on activities associated with this SRP will be required to sign the appropriate HASP(s) to demonstrate that they are familiar with the HASP and that they participated in, or were briefed on, the daily tailgate meeting.

5.3 SOIL MANAGEMENT PLAN

At least thirty (30) days prior to the planned removal of any soil covered by this SRP, the Contractor shall prepare and submit for review and approval by OEHS a Soil Management Plan (SMP). OEHS has up to seven (7) days to approve, comment or reject the SMP. At a minimum, the SMP must include the following:

- Timing statements that;
 - LAUSD will be given at least three (3) business days' notice prior to any activities that require the Consultant.
 - OEHS will be given at least three (3) business days to certify profiles,
 - OEHS will be given at least three (3) business days to approve manifests,
 - Contractor understands that AOCs must remain undisturbed up to three (3) business days after the collection of the soil samples to allow for the receipt of the laboratory reports.
- Statements that;
 - This SRP was reviewed.
 - Soil within ten feet (10 ft) of the limits of any AOC will not be disturbed prior to the excavation by Contractor and subsequent closure by OEHS of that AOC.
 - The hardscape (i.e., pavement, etc.) covering any AOC will not be removed more than five (5) days before the excavation of that AOC.
 - If Contractor removes any structures (e.g., buildings) that are necessary to lay out an AOC, Contractor becomes responsible for providing the resources necessary (i.e. survey crew) to determine the limits of that AOC.
- Identify if the soil will be direct loaded, stockpiled, or placed in a container.
- SCHEDULE section that identifies when the AOCs will be removed (e.g., all at once, in phases with AOCs identified, etc.)
- Identify anticipated facility(ies) that will receive the non-hazardous soil with anticipated route(s) from the Site to that facility.
- Identify anticipated facility(ies) that will receive the hazardous soil with anticipated route(s) from the Site to that facility.
- It is possible that by the time the impacted soil is removed from the Site that the laboratory analytical results contained in the PEA-E will be more than a year old. The SMP must identify if any additional laboratory analysis is necessary to allow the facility to create a profile. Should additional analyses be necessary, the Consultant will complete the analyses identified by the Contractor. The Contractor, not the Consultant, will be responsible for

determining the correct analyses. If necessary, the Contractor's schedule must include at least 30 days for the Consultant to collect and report on the results.

- **EQUIPMENT** section that includes the list of equipment anticipated to be used. This section should also include the statement that the bucket used to excavate the AOCs will be smooth (i.e., no teeth)
- **VARIANCE** section that identifies any activities that must be performed in a manner that deviates from this SRP. This section must describe why each variation is necessary. The section must indicate the sentence "No variances requested" if that is the case.

5.4 SITE PREPARATION AND SECURITY MEASURES

Site preparation activities, prior to mobilization for the proposed soil removal action, may include Site inspections, surveying, marking excavation limits, and improvement of access gates/roads as necessary. It is assumed that any currently existing buildings and pavement overlying or adjacent to the impacted soil areas will be removed prior to excavation work.

5.4.1 DELINEATION OF EXCAVATION AREAS

The lateral and vertical extent of impacted soil was estimated based on the previous investigation activities. The estimated limits of impacted soil are shown on **Figures 3a thru 3i** for AOC-1 through AOC-12. The volume of soil removed may increase when the excavation work is conducted and will be based on the results of the confirmation soil sampling and analysis required to confirm the excavation walls and depths have reached clean (i.e., below screening levels) soil. A survey of the initial and step-out soil boring locations is provided in **Appendix A**.

5.4.2 UTILITY CLEARANCE

Prior to commencing with excavation activities, the Contractor will contact Underground Service Alert (USA) at least 72 hours in advance and request to identify the location of the utilities that enter the Site. The Consultant will clearly mark the proposed excavation areas with white paint as required by USA. USA will contact all utility owners of record within the Site vicinity and notify them of the intent to excavate. All utility owners of record will be expected to clearly mark the position of their utilities on the ground surface at they enter the Site, or mark if there is no conflict.

Contractor is responsible for the identification and protection of all underground structures. Prior to subsurface excavation work, a geophysical survey, using a magnetometer and ground penetrating radar, is recommended in proposed excavation areas to also help identify subsurface utilities and features (i.e., underground utility tunnel), or other potential structures. Necessary precautions are required to be taken prior to and during the excavation activities to ensure that subsurface utility lines and other structures are identified and marked so they are not damaged.

If available, LAUSD should provide copies of documents related to the presence of subsurface utilities and structures to the Contractor.

5.4.3 SECURITY MEASURES

The school is secured by perimeter fencing. Contractor is responsible for isolating the Project Area with temporary fencing as required by other contract documents. At a minimum, the Contractor will place barricades, such as delineators with caution tape, around the perimeters of the excavation areas at the end of each day to reduce the potential for unauthorized personnel to enter the excavations.

5.4.4 CONTAMINANT CONTROL

The Contractor will perform dust suppression by lightly spraying or misting the work areas with water. Water mist may also be used on soil placed in temporary stockpiles or in the transport trucks. After the soil is loaded into the transport trucks, the soil will be covered to prevent soil from spilling out of the truck during transport to the disposal facility. Additionally, truck tires and trailers will be cleaned as needed to remove Site soil, before leaving the Site.

If ponded precipitation occurs or water seeps into the excavations prior to confirmation soil sampling, the Contractor will either wait for the water to evaporate or pump the water from the excavation into an aboveground container (e.g., tank or drum(s)). The Consultant would then sample the water in the container for profiling purposes. OEHS would then direct the Contractor to either incorporate the water in the container into their dust control operations or dispose of the water offsite in accordance with federal, state, and local regulations.

While on the school property, all vehicles will maintain slow speeds (i.e., less than 5 miles per hour) for safety purposes and for dust control measures. Efforts will also be made to minimize the soil drop height from the excavator bucket into the transport trucks.

5.4.5 PERMITS AND PLANS

The Contractor is responsible for obtaining all permits and preparing the construction plans for the Project.

5.5 WASTE MANAGEMENT

It is anticipated that four types of wastes could be generated at the Site during implementation of the SRP including the following:

- Recyclable construction debris, including concrete rubble and rock. The recyclable construction debris will be transported to a local recycling facility via dump trucks (end dumps), unless re-use options are available on-site, or there is no local recycling facility available.

- Non-recyclable construction debris include weeds, trash, and discarded personal protective equipment (PPE), etc. The non-recyclable construction debris are not considered hazardous and will be transported and disposed at a local landfill via dump trucks.
- All lead- and arsenic-impacted non-hazardous material will be transported to a licensed and approved facility that is properly permitted to accept the waste classification (i.e., nonhazardous or non-RCRA). The facilities should be permitted as the final location for the soil (i.e., not a transfer facility) and must be pre-approved by LAUSD for disposal of the material.
- Wastewater generated during soil removal activities including but not limited to decontamination liquids will be temporarily placed inside 55-gallon Department of Transportation-approved drums. The drums will be labeled, profiled and transported off-site to an approved treatment or disposal facility.

5.6 QUALITY ASSURANCE / QUALITY CONTROL

Quality assurance/quality control (QA/QC) samples and measure to be used by the Consultant during project execution are discussed below.

Field QC samples will be collected and analyzed during project sampling to assess consistency and performance of the sampling program. Field QC samples will include field duplicates and temperature blanks.

5.6.1 FIELD DUPLICATES

A field duplicate is defined as two or more samples collected independently at the same sampling location during a single act of sampling. One field duplicate will be collected for every 10 primary project samples that are submitted to the laboratory and will be analyzed for the same analyses as the primary field sample. If fewer than 10 primary samples are collected, at least one field duplicate should still be collected and analyzed per day. Each of the field duplicates will be uniquely identified with a coded identifier, which will be in the same format as other sample identifiers.

5.6.2 TEMPERATURE BLANKS

Consultant to request that laboratory provide one temperature blank to accompany each cooler containing project samples submitted to the laboratory. Temperature measurements are essential to verify proper sample preservation for all analyses requiring sample preservation by refrigeration ($4^{\circ} \pm 2^{\circ}$ Celsius). Laboratory personnel will obtain temperature measurements from the temperature blank upon receipt of sample shipment containers, and this measurement will be recorded on the chain-of-custody form.

5.6.3 LABORATORY QC SAMPLES AND CRITERIA

Laboratory QC data are necessary to determine the precision and accuracy of the analyses, confirm matrix interferences, and demonstrate target compound contamination of sample results. QC

samples will be analyzed routinely by the analytical laboratory as part of the method QC procedures.

5.6.4 UPDATED PROFILE SAMPLING (IF NECESSARY)

Should the Contractor's SMP indicate that new profiling samples must be collected to satisfy the disposal facility(es), the Consultant shall collect the necessary samples. Should the results of this sampling indicate a change in the waste classification, the more conservative disposal will apply. For example,

- If the results indicate a non-RCRA AOC is nonhazardous, the soil will still be sent off as non-RCRA waste,
- If the results indicate a non-RCRA AOC is a RCRA hazardous waste, the soil will be sent off as RCRA waste.

5.7 FIELD DOCUMENTATION

During the impacted soil excavation activities, a field engineer or geologist under supervision of a California PE or PG working for the Consultant will document field observations. The field notes will contain pertinent observations about excavation dimensions, equipment operation, unusual conditions encountered during excavation, date and time of arrival, general Site conditions, confirmation soil sampling activities, and other field observations relating to the Site. Field documentation will also include photographs and written logs as described below.

5.7.1 FIELD LOGBOOKS

Logs will be maintained daily and will include:

- Records of all personnel and project-related visitors at the Site;
- Work conducted;
- Equipment used;
- Dust monitor readings from field monitoring;
- VOC monitoring if applicable;
- A record of all formal Site meetings such as health and safety meetings, daily tailgate meetings, and agency meetings; and
- Description of all photographs taken to document the field conditions and activities.

Additionally, the Contractor and Consultant to work cooperatively to maintain a detailed log of each truck loaded with soil at the Site, and will include truck identification and driver name, destination, excavated materials and estimated size of load, and a field copy of the shipping manifest.

5.7.2 CHAIN-OF-CUSTODY RECORDS

The Consultant shall maintain detailed chain-of-custody records for all confirmation samples.

5.7.3 PHOTOGRAPHS

The Consultant will document Site conditions and/or excavations with photographs before, during, and after excavation activities.

5.8 EXCAVATION

To mitigate the impacted soils for the protection of human health, approximately 280 CY of existing soil will be excavated and removed from the Site. The total volume of soil required to be excavated based on current screening levels may increase after the currently existing structures and pavement are removed, the impacted soil is excavated, and the confirmation sampling is completed, as discussed above in this SRP. The excavated soil will be handled, transported, and disposed of by the Contractor based on the analytical results from the PEA-E sampling activities.

Approximately 180 CY of soil will be managed as non-hazardous soil and 100 CY of soil will be managed as non-RCRA hazardous soil. It is possible that post PEA-E sampling data may result in a different waste classification of the soil to be disposed of, but based on the existing data to date, a classification change is not anticipated at this time.

If regulatory screening levels change between the date of this SRP and the time the removal activities occur, soil excavation and disposal volumes may be subject to change. The Contractor will obtain approval from the disposal facilities prior to the start of excavation activities.

5.8.1 EXCAVATION PROCEDURES

Conventional construction equipment, such as a backhoe or excavator with bladed buckets, will be used to excavate the soil. Dust and vapor suppression procedures are discussed above, and monitoring is discussed below.

For the areas where concrete/asphalt exists above the proposed removal area, the existing concrete/asphalt will be saw-cut and broken out with a pneumatic concrete breaker or equivalent. The concrete/asphalt debris will be segregated and stockpiled nearby for offsite disposal/recycling when the remaining concrete is removed during non-remedial school redevelopment activities.

Excavations are not anticipated to be deeper than 3 feet bgs; therefore, sloping and shoring should not be required. It is assumed that buildings will be removed prior to excavation and sloping/shoring will not be required unless buildings will be left in place. Once the excavations are completed at each selected location, confirmation soil sampling will be conducted. Excavations will proceed in lateral and vertical directions until the first of 1) cleanup goals are demonstrated to have been met, or 2) the Project Area boundaries are reached. LAUSD OEHS will provide written direction, email is acceptable, on the need for additional excavation or approval to backfill.

It is anticipated that the impacted excavated soil will be direct loaded into trucks for immediate transport to an appropriate offsite disposal facility, to the extent possible. Roll-off bins may also

be used. Temporary stockpiling may be necessary based on truck availability and/or other logistics. If the soil is stockpiled, the stockpiles will be placed on plastic sheeting and covered with plastic sheeting at the end of the day, and the edges of the plastic sheeting will be secured with sandbags or similar. The stockpiles will remain covered until load-out.

5.8.2 WASTE SEGREGATION OPERATIONS

The soil excavated from individual excavations within the proposed excavation footprint areas (as depicted on **Figures 3a thru 3l**) areas will be properly managed. Approximately 180 CY can be managed as non-hazardous waste and 100 CY can be managed as non-RCRA hazardous waste. The Contractor and Consultant will oversee truck loading or roll-off bin removal operations to ensure that a properly completed non-hazardous waste manifests/bills of lading accompany each truck or bin and that it is directed to the appropriate disposal facility, based on its waste classification.

If impacted soil is temporarily stockpiled onsite, the plastic covering will be marked with large letters, applied with spray paint, to indicate the source of the soil and its waste classification. Labels that indicate the waste generator, waste type, accumulation start date, and contact information will be applied to the outside of any drums or roll-off bins used to temporarily store impacted soil. Strict segregation of soil based on waste type will be maintained to avoid any mixture of non-hazardous soil and adjacent clean soil, and hazardous soil.

5.8.3 SCAQMD RULE 1466

The removal of the soil from the AOCs must be completed in accordance with SCAQMD Rule 1466. The current version of the entire Rule should be reviewed and complied with. The requirements for between 50 and 500 cubic yards must be complied with because 280 CY of impacted soil will be removed. If the soil is directly loaded into a truck bed, trailer, or bin for transport, at a minimum, the following sections apply:

- (e)(3) through (e)(9),
- (e)(13) through (e)(15), and
- Subdivisions (f), (h), and (i).

Appendix B contains the above requirements as of the publication date of this SRP.

5.8.4 DECONTAMINATION PROCEDURES

Protocols must be followed to prevent cross-contamination from the use of construction equipment and implementation of other activities as a part of the removal action. The following decontamination procedures must be used by the Contractor:

- Equipment used for excavation will be dry decontaminated prior to moving to other areas of the Site.

- Prior to exiting the Site, the transport truck drivers will be required to stop and inspect the tires and sides of their trucks for loose soil debris. Extra soil will be removed using a wire brush or broom as deemed appropriate. This cleanup/decontamination area will be setup as close to the loading area as possible to minimize spreading the impacted soil.
- Street sweeping procedures will be implemented as necessary to reduce the potential for fugitive dust and migration of contamination.

5.9 AIR AND METEOROLOGICAL MONITORING

The project area is located within the jurisdiction of the SCAQMD. Based on the projected volume of soil requiring excavation (exceeding 50 CY), airborne dust monitoring will be conducted by the Consultant using portable dust monitors to verify and document dust suppression efforts, per the SCAQMD's Rule 1466. The air monitoring should be done in compliance with the provisions of the current Rule, including particulate matter measuring 10 micrometers or less (PM10) monitoring, dust control measures, notification, signage, and recordkeeping requirements. Rule 1466 allows for alternative dust control measures and ambient dust concentration limits, provided the provisions are pre-approved by the Executive Officer. Fugitive dust control measures will be implemented at the Site to mitigate offsite dust migration onto neighboring properties through light watering of the active excavation areas throughout the removal action. Air monitoring for dust will be performed during the excavation activities in the worker's breathing zone, in the general work area, and at the perimeters of the excavation areas utilizing an upwind/downwind sampling approach.

Access to the Site will be controlled and excavation will not be conducted during times of high wind conditions (e.g., consistent wind speeds greater than 15 miles per hour and/or gusts of greater than 25 miles per hour). Onsite ambient weather conditions (wind speed and direction, temperature, and relative humidity) should be monitored by the Consultant with an onsite meteorological station.

Consultant has the authority to stop work if they feel that Contractor is failing to meet their dust suppression obligations under Rule 1466.

5.10 CONFIRMATION SAMPLING

The confirmation sampling program for the proposed removal action will consist of collecting soil confirmation samples from the bottom and sidewalls of the excavations that were not defined by step-down and step-out sampling previously conducted during the PEA-E investigation.

Confirmation soil sampling will be conducted at a minimum frequency of approximately one sample per 20 linear feet of sidewall and one per 500 square feet of excavation bottom. The sidewall samples will be collected at mid-depth of the excavation. Confirmation sample locations are depicted on **Figures 3a thru 3l**. QA/QC samples will be collected and analyzed as described in Section 5.6.

The confirmation soil samples will be collected from locations along excavation sidewalls and bottoms by scooping the soil directly into laboratory-supplied, new glass sample jars from the soil face. Dry decontamination methods (paper towels and Simple Green®, or equivalent) of sampling equipment will be completed between samples.

The soil samples will be labeled with the following information: sample identification; project number; Site name; date and time of collection; requested analysis; and sampler initials. This information plus requested analysis will be also added to the chain of custody form.

The sample identification will follow the following format: AOC No., direction, sample number in that direction. For example, the identification for the initial soil sample collected from the north wall of AOC-1 would be “AOC-1-N-1. Should this sample fail, the identification for the next confirmation sample would be “AOC-1-N-2. The identification for the initial northerly sample from the west wall of AOC-1 would be “AOC-1-NW-1”.

Chain-of-custody documentation will be maintained for all samples and be delivered with the samples to the laboratory.

Confirmation soil samples collected from AOC-1 through AOC-12 will be analyzed for lead using USEPA Method 6010B and/or for arsenic using EPA Method 6020. Review the associated metal(s) as identified in Section 4 for each AOC to determine the proper metal(s) to be tested for. All samples with total metal concentrations above 50 mg/kg from non-RCRA AOCs will additionally be analyzed to determine the STLC.

The quantity of soil removed from the excavations will be reconciled by comparing the volumes excavated to the quantities reported on the waste manifests. Copies of the waste manifests, showing appropriate signatures from the receiving facility, will be included in the RACR.

The laboratory results of the confirmation soil sampling will be reviewed by the Consultant and LAUSD – OEHS and compared against the cleanup goals stated herein, which are the following:

- Lead = 80 mg/kg, STLC = 5 mg/L
- Arsenic = 12 mg/kg, STLC = 5 mg/L

Upon review of the confirmation soil sample results, step-out or step-down soil sampling and additional excavation may be requested by LAUSD – OEHS.

The Consultant shall enter all the data collected from the PEA-E into a spreadsheet. ProUCL will be used to update the 95% UCL for arsenic and lead as sample locations are removed and new samples are collected.

5.11 IMPORT SOIL SAMPLING

If soil is imported to the Site it needs to be tested and certified in accordance with LAUSD Section 01 4524 specifications – “Environmental Import/Export Materials Testing” (latest version), which includes provisions for LAUSD OEHS review and approval prior to soil import.

5.12 TRANSPORTATION PLAN FOR OFFSITE DISPOSAL

The excavated soil will be segregated and managed as explained in Section 5.8. Non-hazardous soils will be transported to an approved landfill for disposal. Non-RCRA hazardous soils will be transported to a licensed and properly permitted Class 1 disposal facility or an out-of-state facility permitted to accept such waste. If RCRA wastes are encountered, the Class 1 disposal facility that accepts the RCRA hazardous soil may require that the soil be treated prior to disposal pursuant to the land ban restrictions found at Title 40, CCR, Part 376. The final determination as to which facilities are used is subject to approval by the LAUSD OEHS prior to beginning soil removal activities.

5.13 BACKFILL AND SITE RESTORATION

Backfilling of the excavations will be conducted in accordance with the Project’s geotechnical Engineer and are beyond the scope of this SRP.

5.14 VARIANCES

As conditions in the field may vary, it may become necessary to implement minor modifications to soil removal activities as presented in this SRP. Field personnel will notify the LAUSD OEHS project manager when deviations from this SRP are necessary. Modifications to the SRP will be documented in the field logbook and in the RACR.

6.0 REPORT OF COMPLETION

Following completion of the removal action, a RACR will be prepared and submitted to the LAUSD for review and approval. A RACR documenting activities conducted pursuant to this SRP will be prepared by the Environmental Consultant upon completion of the soil removals. At a minimum, the RACR will include the following:

- Summary of field activities
- Summary of laboratory results
- Conclusions and recommendations
- Signature and seal of California-licensed civil engineer or geologist responsible for the work
- Figures showing final excavation extents and soil sampling locations
- Tables summarizing confirmation sample analytical results
- Copies of manifests and weight tickets
- Copies of laboratory reports
- Photographic documentation of the work with dates and descriptions
- Copies of air monitoring records
- Copies of daily field notes
- Copies of final ProUCL outputs for arsenic and lead

7.0 COST ESTIMATE

A cost estimate for the proposed soil removal action described above was prepared to aid in evaluating the impacted-soil removal and disposal activities. A breakdown of the costs is shown in **Table 2**, and is an approximation that can be used to provide estimates for budgetary purposes. The total estimated cost is \$350,000, with an upper bound of \$530,000 (+50%) and a lower bound of \$280,000 (-20%).

8.0 REFERENCES

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- Parsons, 2023a. *Preliminary Endangerment Assessment – Equivalent Workplan for Soil Sampling, Canoga Park Senior High School, 6850 Topanga Canyon Boulevard, Canoga Park, California.* March 30.
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- South Coast Air Quality Management District, 2017. *Rule 1466 – Control of Particulate Emissions from Soils with Toxic Air Contaminants.* Adopted July 7, Amended December 1, 2017 and June 4, 2021
- USEPA (US Environmental Protection Agency). ProUCL v5.2 software updated June 14, 2022. available online at <https://www.epa.gov/land-research/proucl-softwaredownloaded>
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TABLES

TABLE 1
ESTIMATED EXCAVATION VOLUMES
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

PEA-E ID	Area of Concern	Subarea	Non-Hazardous		Non-RCRA Hazardous		Total Soil
			cubic feet	cubic yards	cubic feet	cubic yards	cubic yards
--	--	--					
SB-34	AOC 1	-1	0	0.0	128	4.7	11.0
		-2	57	2.1	113	4.2	
SB-26	AOC 2	-1	636	23.6	0	0.0	59.0
		-2	0	0.0	134	5.0	
		-3	0	0.0	176	6.5	
		-4	300	11.1	0	0.0	
		-5	116	4.3	232	8.6	
SB-28	AOC 3	--	0	0.0	156	5.8	5.8
SB-5	AOC 4	-1	385	14.3	0	0.0	17.1
		-2	0	0.0	77	2.9	
SB-7	AOC 5	-1	823	30.5	0	0.0	38.2
		-2	0	0.0	208	7.7	
SB-1	AOC 6	-1	36	1.3	0	0.0	27.7
		-2	136	5.0	0	0.0	
		-3	271	10	0	0.0	
		-4	102	3.8	203	7.5	
SB-3	AOC 7	--	0	0.0	367	13.6	13.6
SB-20	AOC 8	--	283	10.5	0	0.0	10.5
SB-44	AOC 9	-1	656	24.3	0	0.0	34.0
		-2	262	9.7	0	0.0	
SB-51	AOC 10	-1	408	15.1	0	0.0	26.4
		-2	0	0.0	305	11.3	
SB-38	AOC 11	-1	119	4.4	0	0.0	27.3
		-2	206	7.6	411	15.2	
SB-39	AOC 12	--	0	0.0	170	6.3	6.3
Totals:¹				180	--	100	280
Totals (tons):²				310	--	170	480

Notes:

1. Numbers may not total due to rounding
2. Assumes 1.7 tons per cubic yard

TABLE 2
ESTIMATED COSTS
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

Item / Description	Quantity	Unit	Price	Cost (\$)
Equipment mob/demob	2	Each	\$10,000	\$20,000
Excavate, stockpile, and load out	10	Day	\$15,000	\$150,000
Transport and Disposal (Non-Haz)	310	Ton	\$100	\$31,000
Transport and Disposal (Non-RCRA Haz)	170	Ton	\$200	\$34,000
Import and compact clean backfill ¹	340	Cubic Yard	\$50	\$17,000
DTSC Generator Fee ²	480	Ton	\$60	\$28,800
Consultant - Oversight	10	Day	\$5,000	\$50,000
Consultant - RACR	1	Each	\$15,000	\$15,000
Total Estimate: ³				\$350,000
Contingency (deduct)			-20%	\$280,000
Contingency (add)			50%	\$530,000

Notes

1. Twelve percent (12%) added for clean import due to lack of compaction in trucks
2. Price rounded up to nearest ten after adding 15% to current rate of \$49.25/ton
3. Rounded up to nearest ten thousand dollars
3. No repaving, permitting, soil confirmation, add'l profiling, compaction testing, costs included.

FIGURES

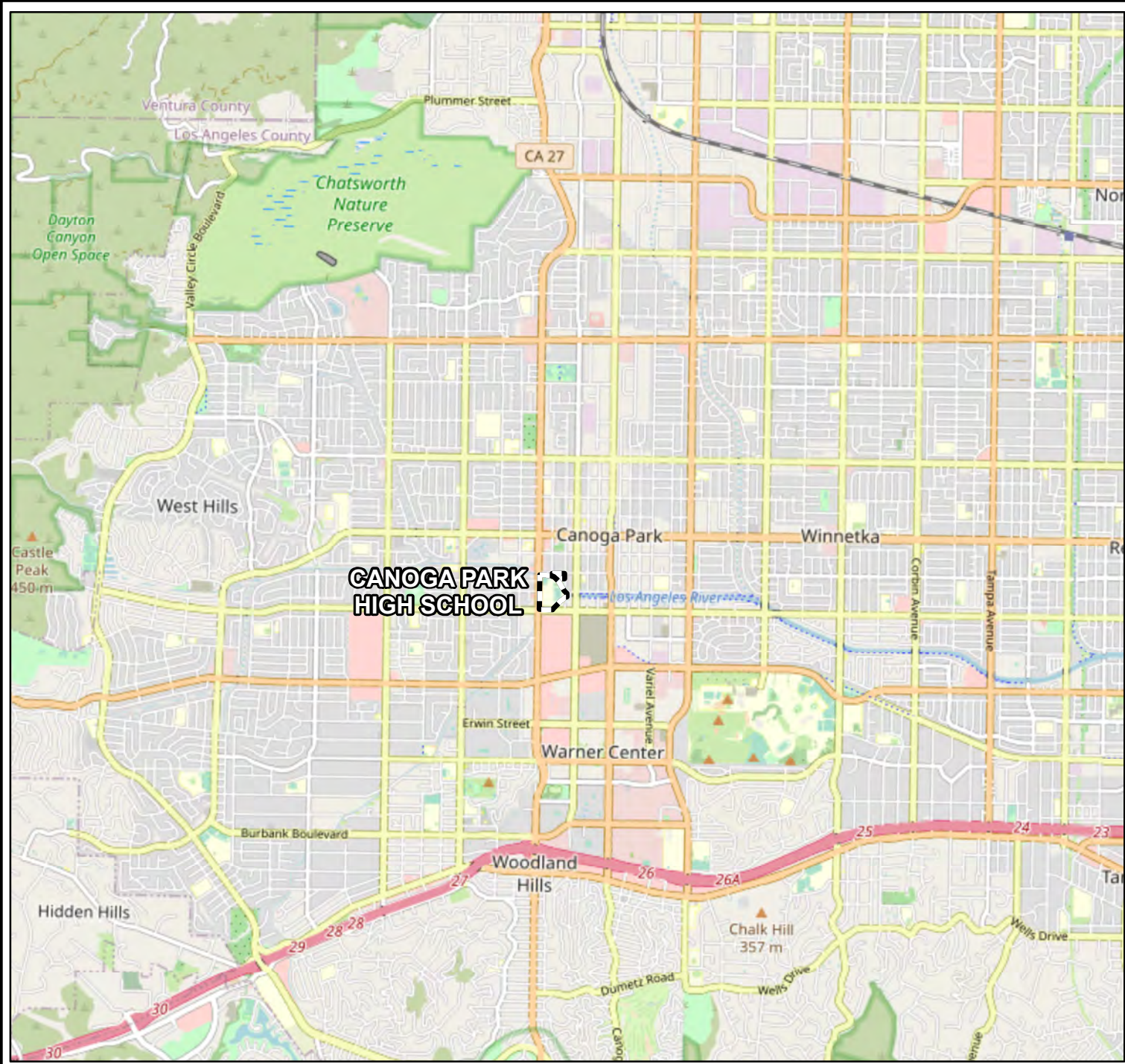



FIGURE 1

**CANOGA PARK HIGH SCHOOL
SITE MAP**

Canoga Park High School
6850 CA-27
Canoga Park, California

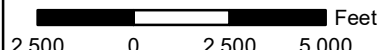
Legend

-  School Property




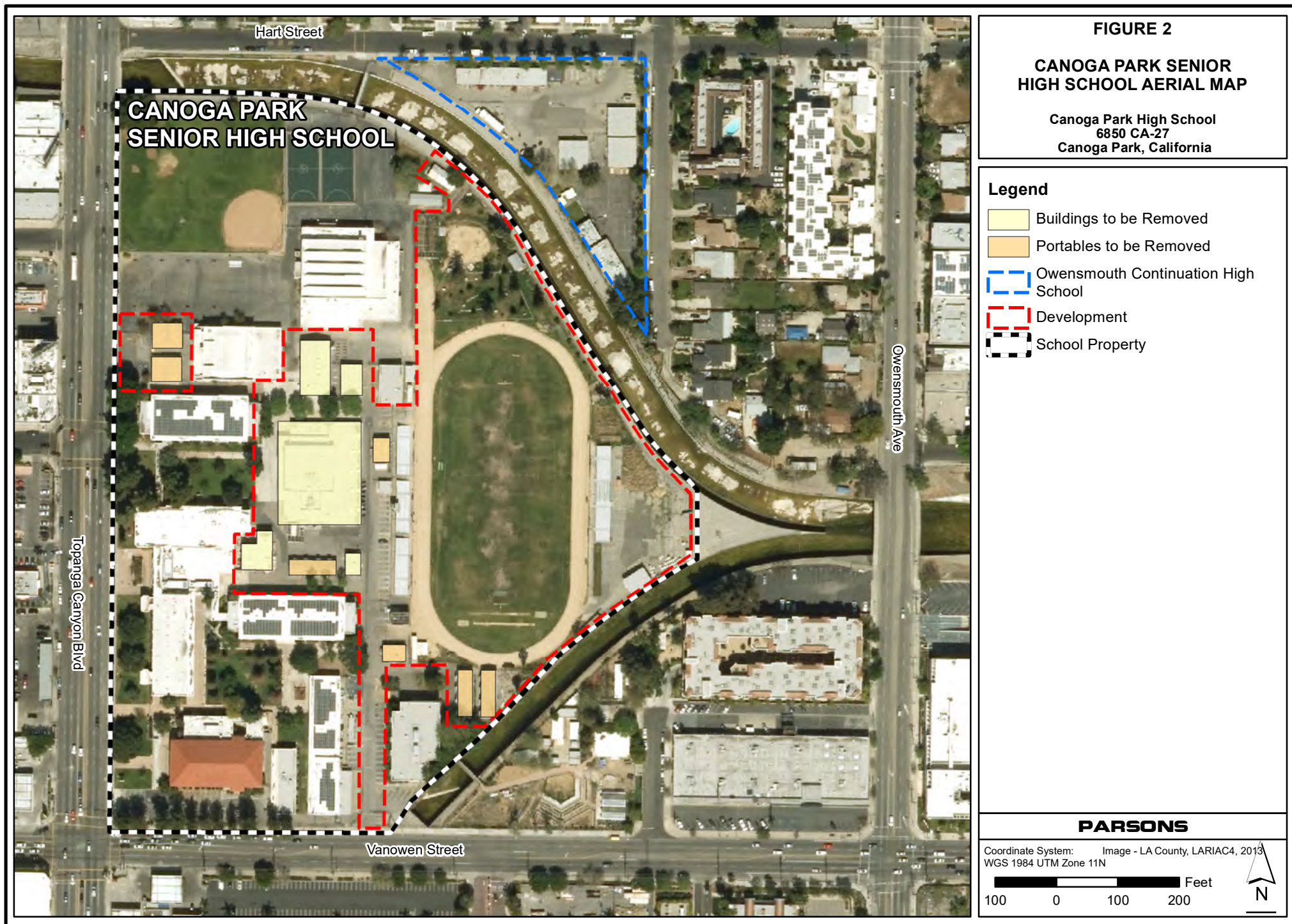
PARSONS

Coordinate System: Image - Open Street
WGS 1984 UTM Zone 11N

 Feet

2,500 0 2,500 5,000

 N



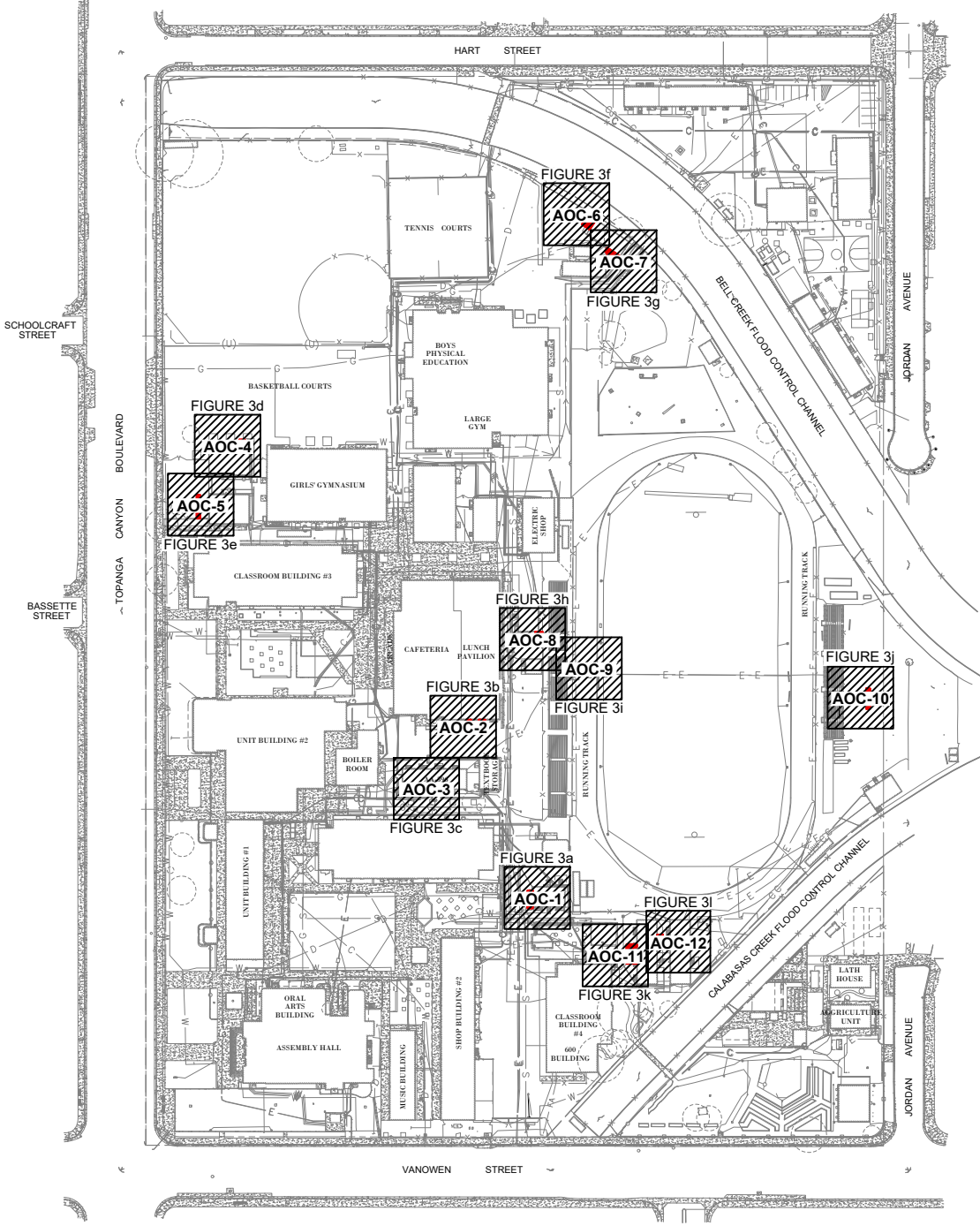
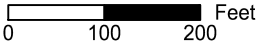


FIGURE 3

**KEY MAP SHOWING STEP-OUT
SAMPLING AREAS**

Canoga Park High School
6850 CA-27
Canoga Park, California

PARSONS



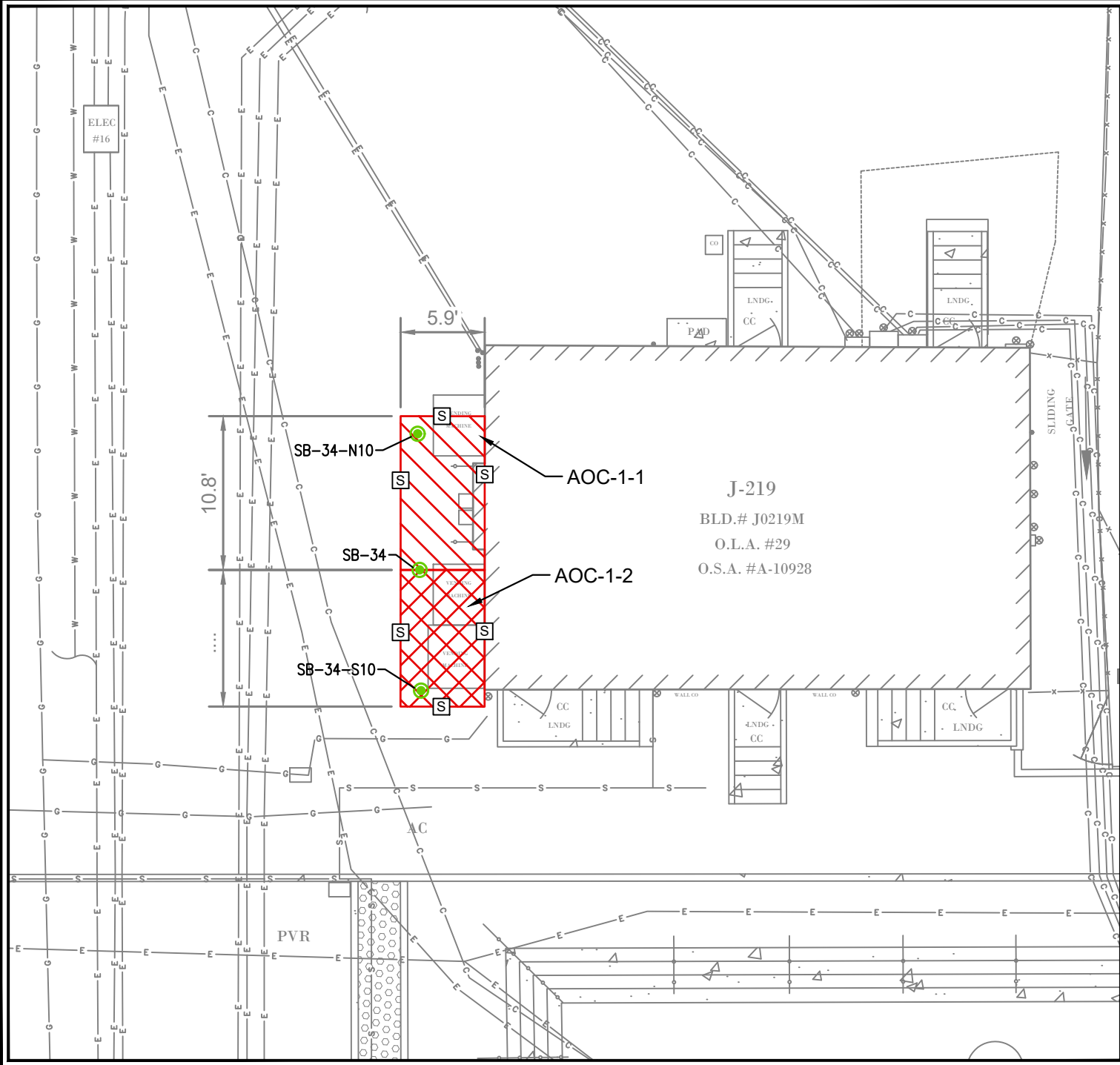


FIGURE 3a

AOC-1 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - Exceedance (Arsenic > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil 0-2' bgs, Non-Hazardous Soil 2'-3' bgs)
- Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet

N

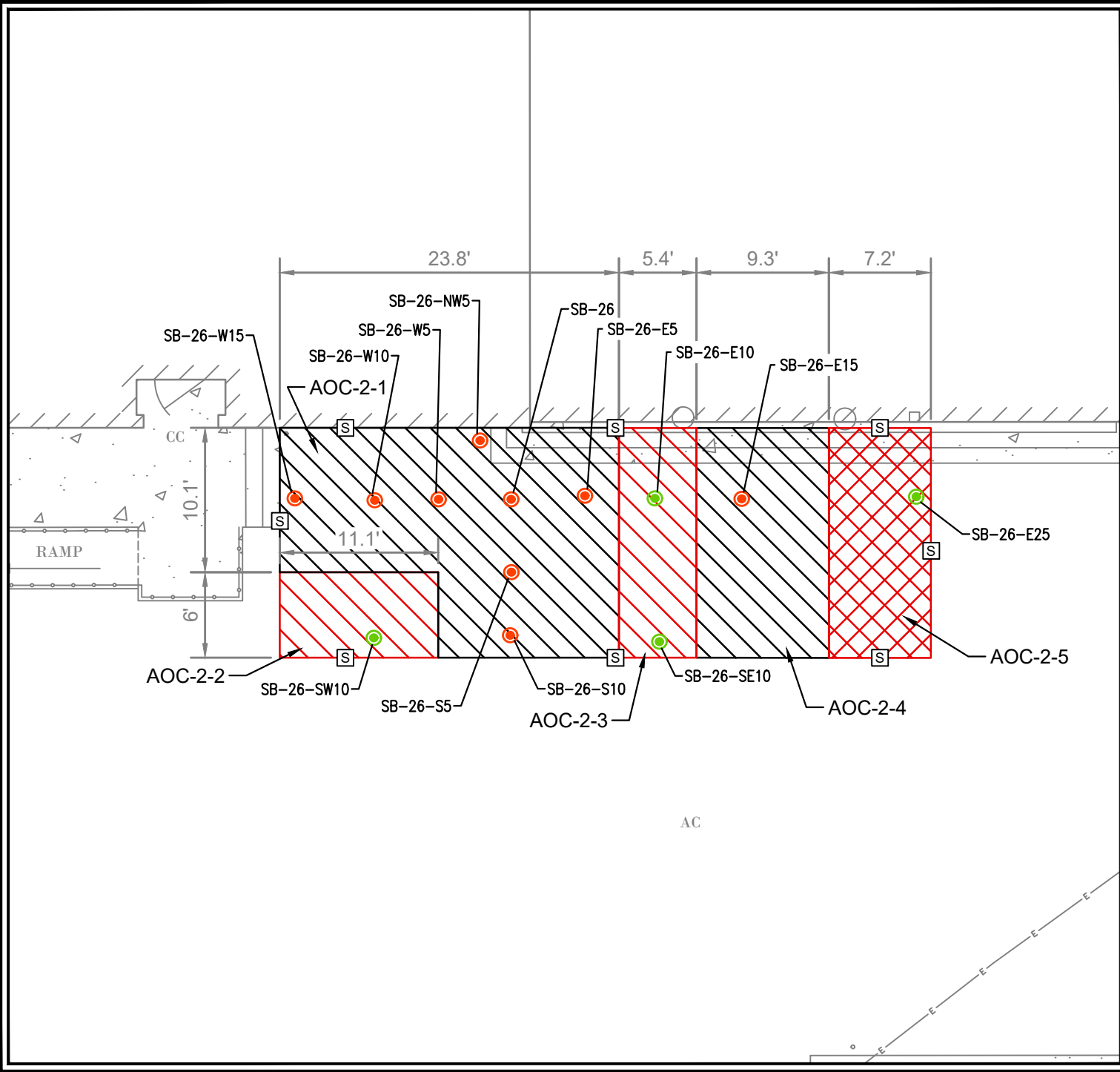


FIGURE 3b

**AOC-2 ESTIMATED
EXCAVATION LIMITS FOR
ARSENIC IMPACTED SOIL**

Canoga Park High School
6850 CA-27
Canoga Park, California

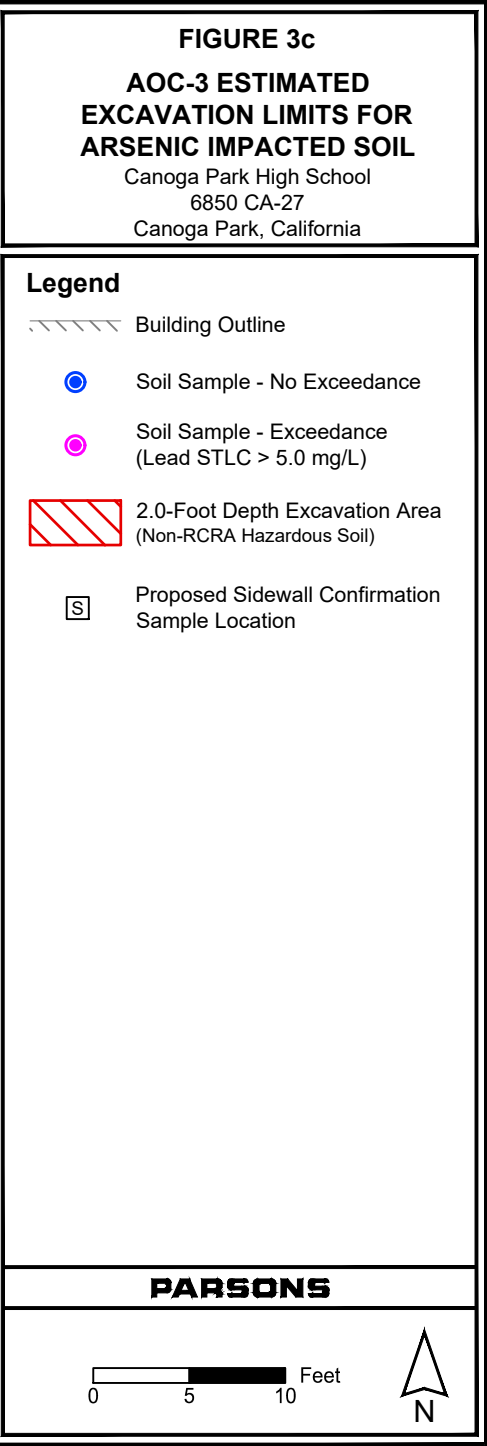
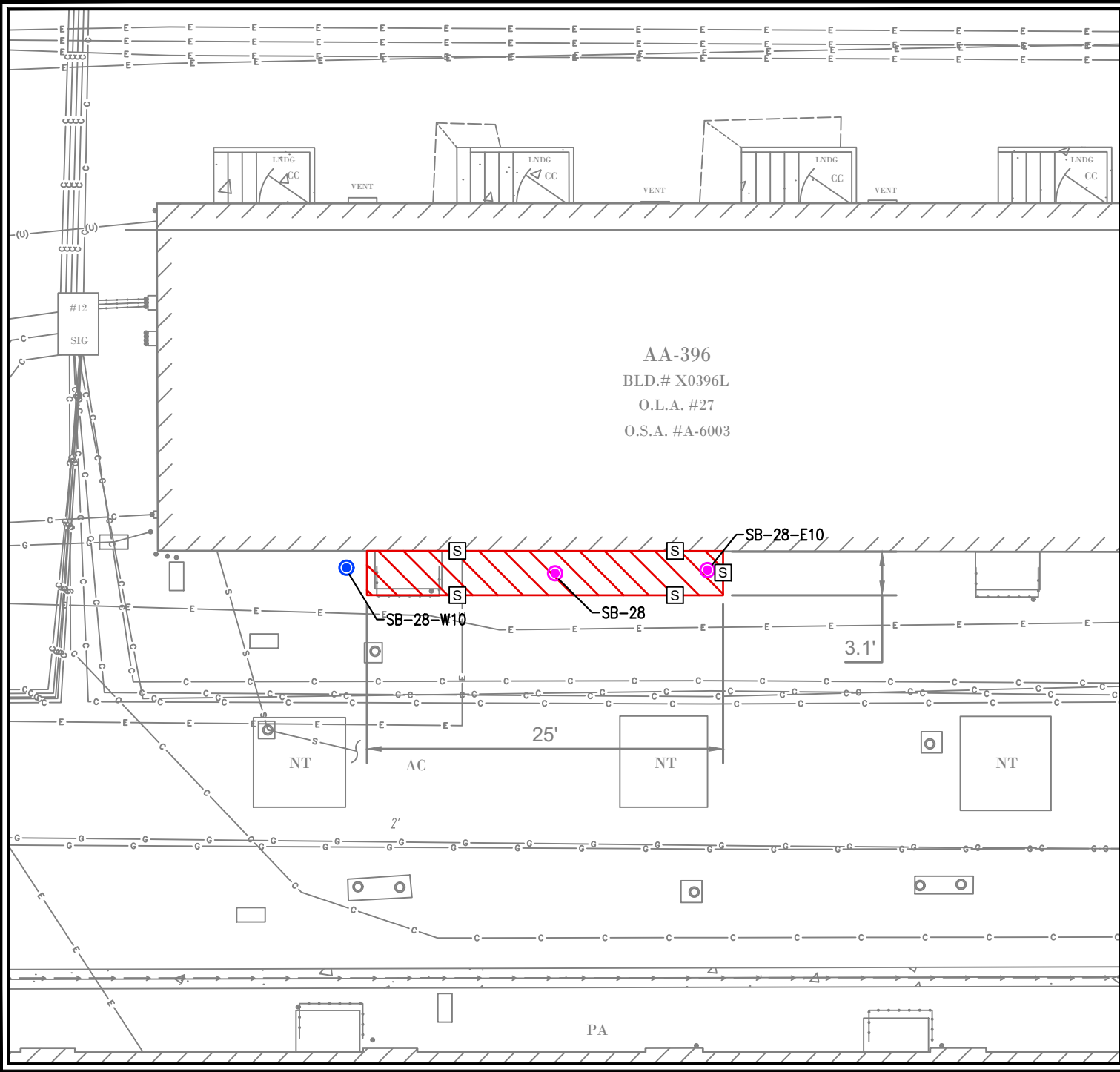
Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Arsenic STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil 0-2' bgs, Non-Hazardous Soil 2'-3' bgs)
- Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet





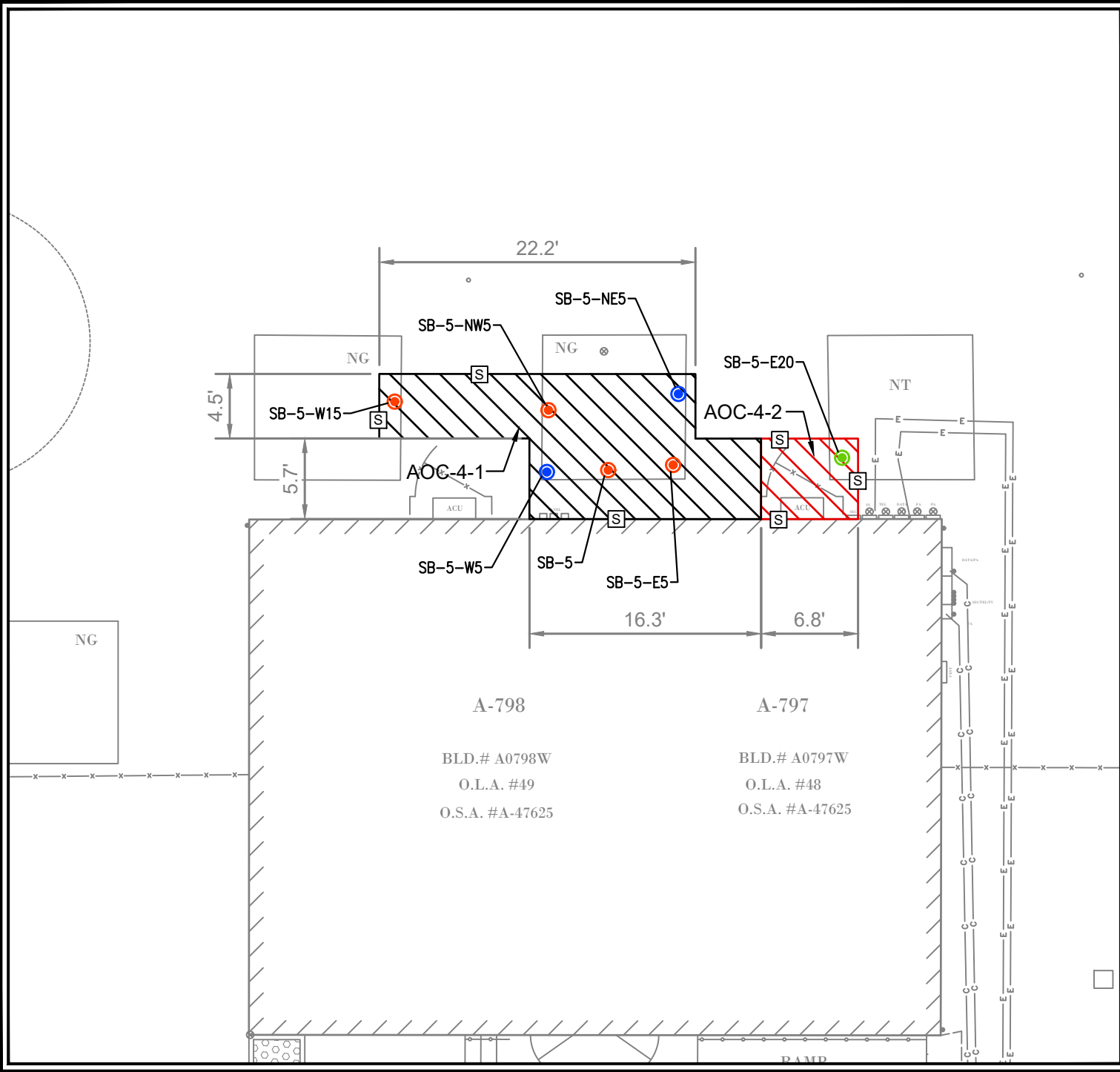


FIGURE 3d

AOC-4 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Arsenic STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet

N

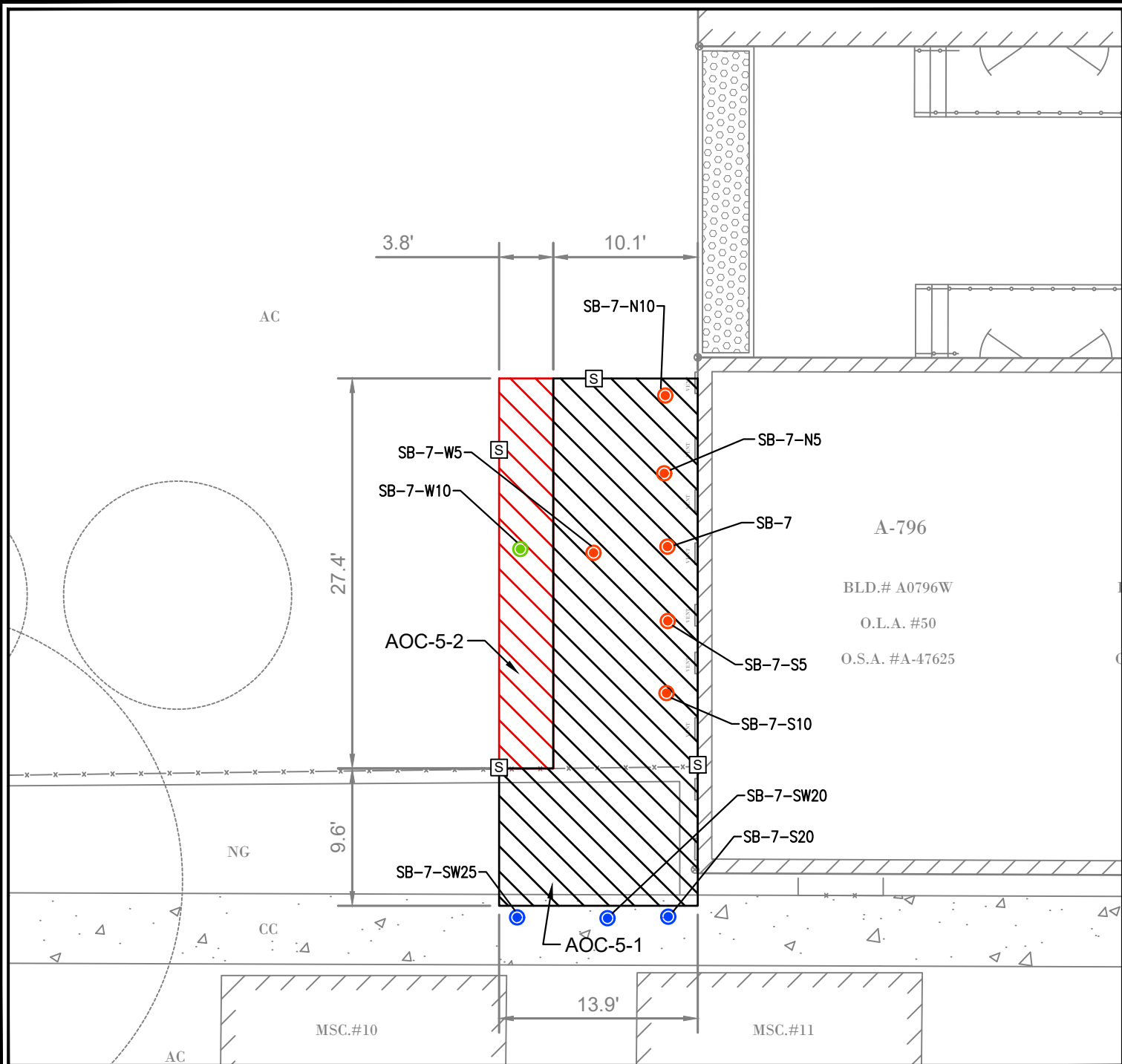


FIGURE 3e

AOC-5 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL

Canoga Park High School
6850 CA-27
Canoga Park, California

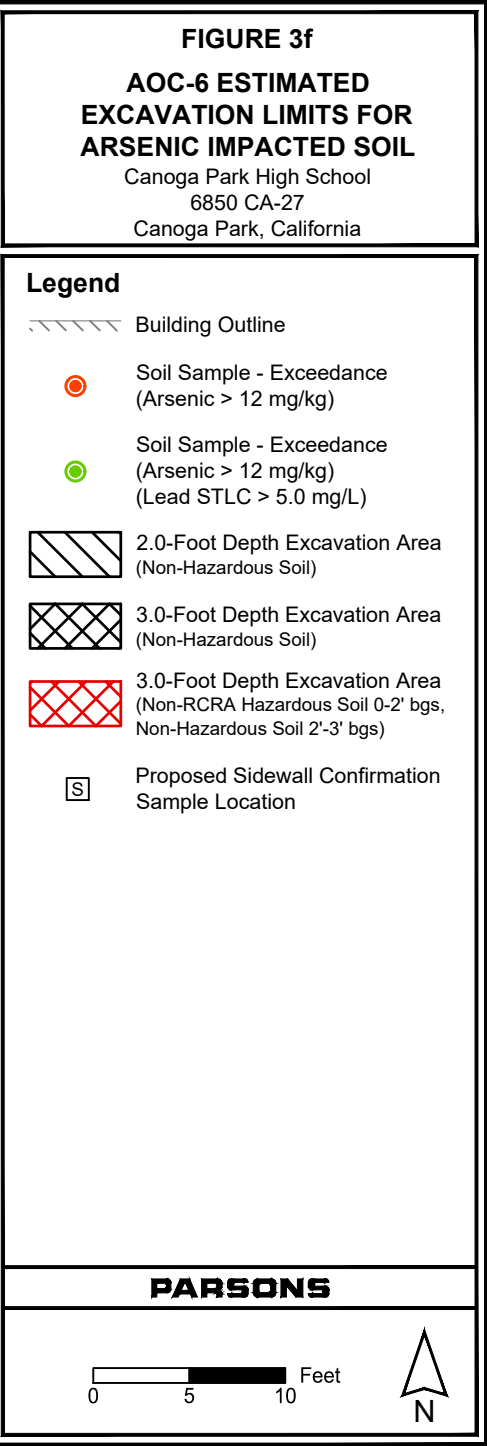
Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Arsenic STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet

N



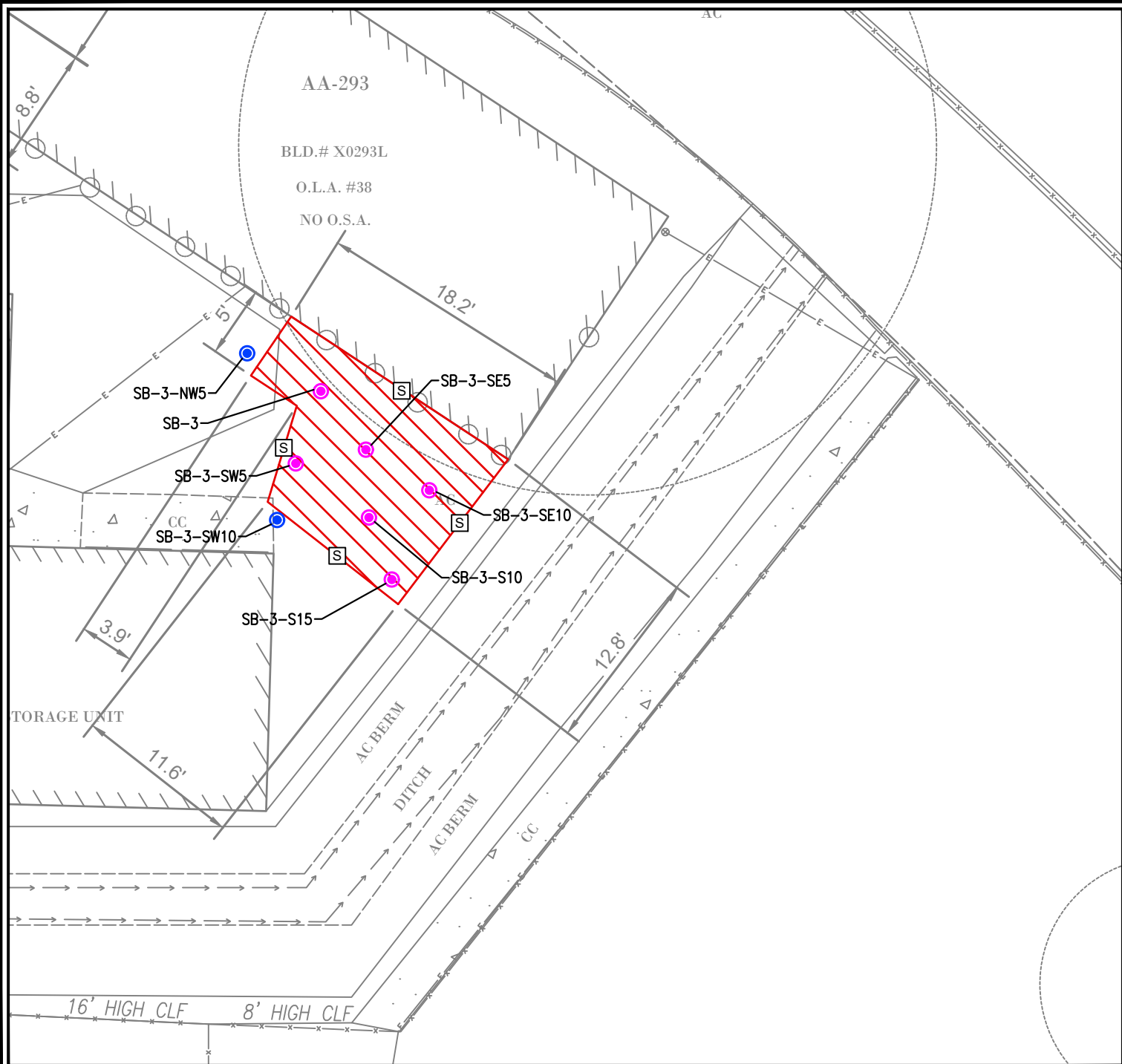







FIGURE 3g

**AOC-7 ESTIMATED
EXCAVATION LIMITS FOR
ARSENIC IMPACTED SOIL**

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

-  Building Outline
-  Soil Sample - No Exceedance
-  Soil Sample - Exceedance
(Lead STLC > 5.0 mg/L)
-  2.0-Foot Depth Excavation Area
(Non-RCRA Hazardous Soil)
-  Proposed Sidewall Confirmation
Sample Location

PARSONS

0 5 10 Feet



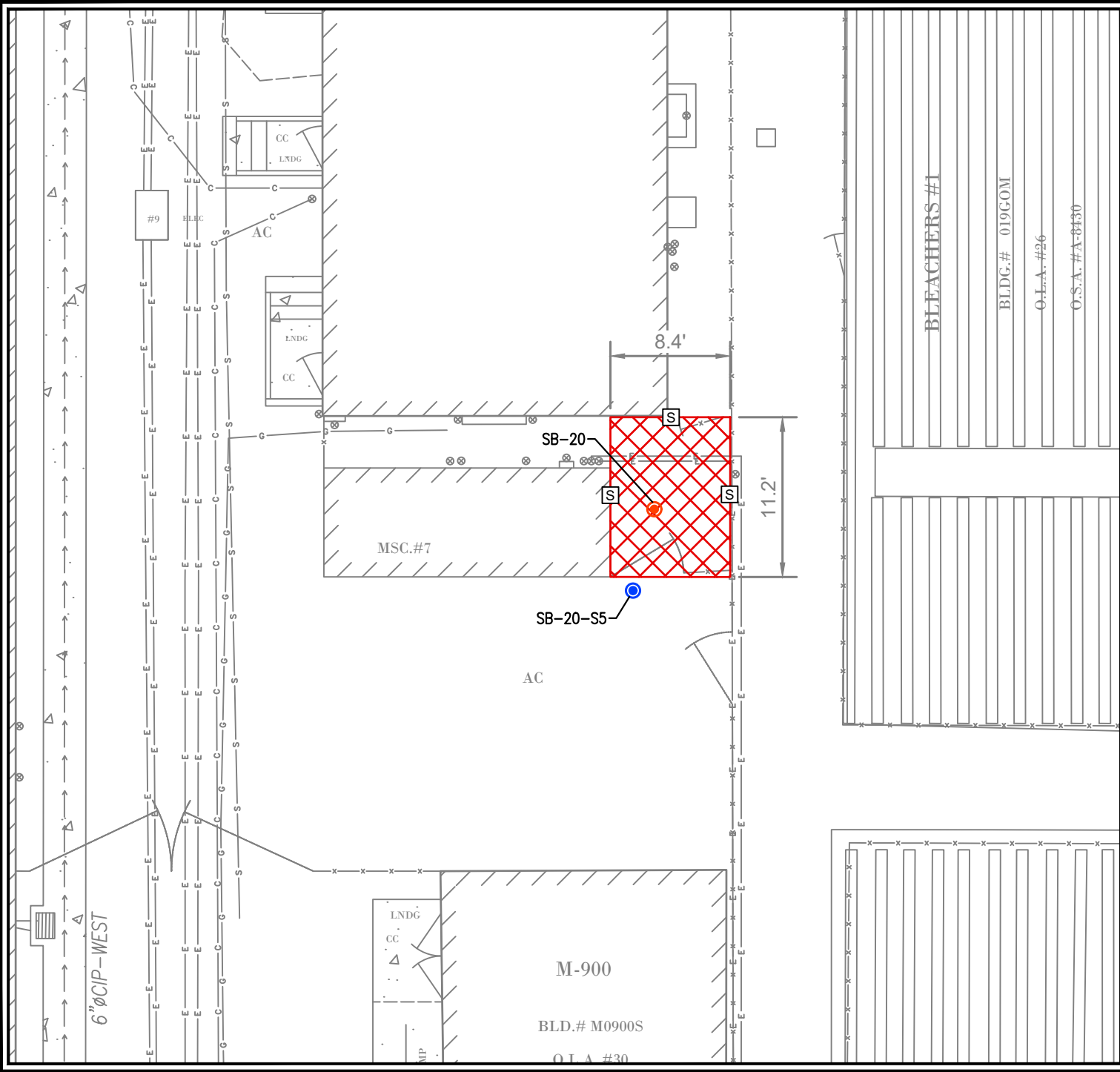


FIGURE 3h

**AOC-8 ESTIMATED
EXCAVATION LIMITS FOR
ARSENIC IMPACTED SOIL**

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- 3.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet

N

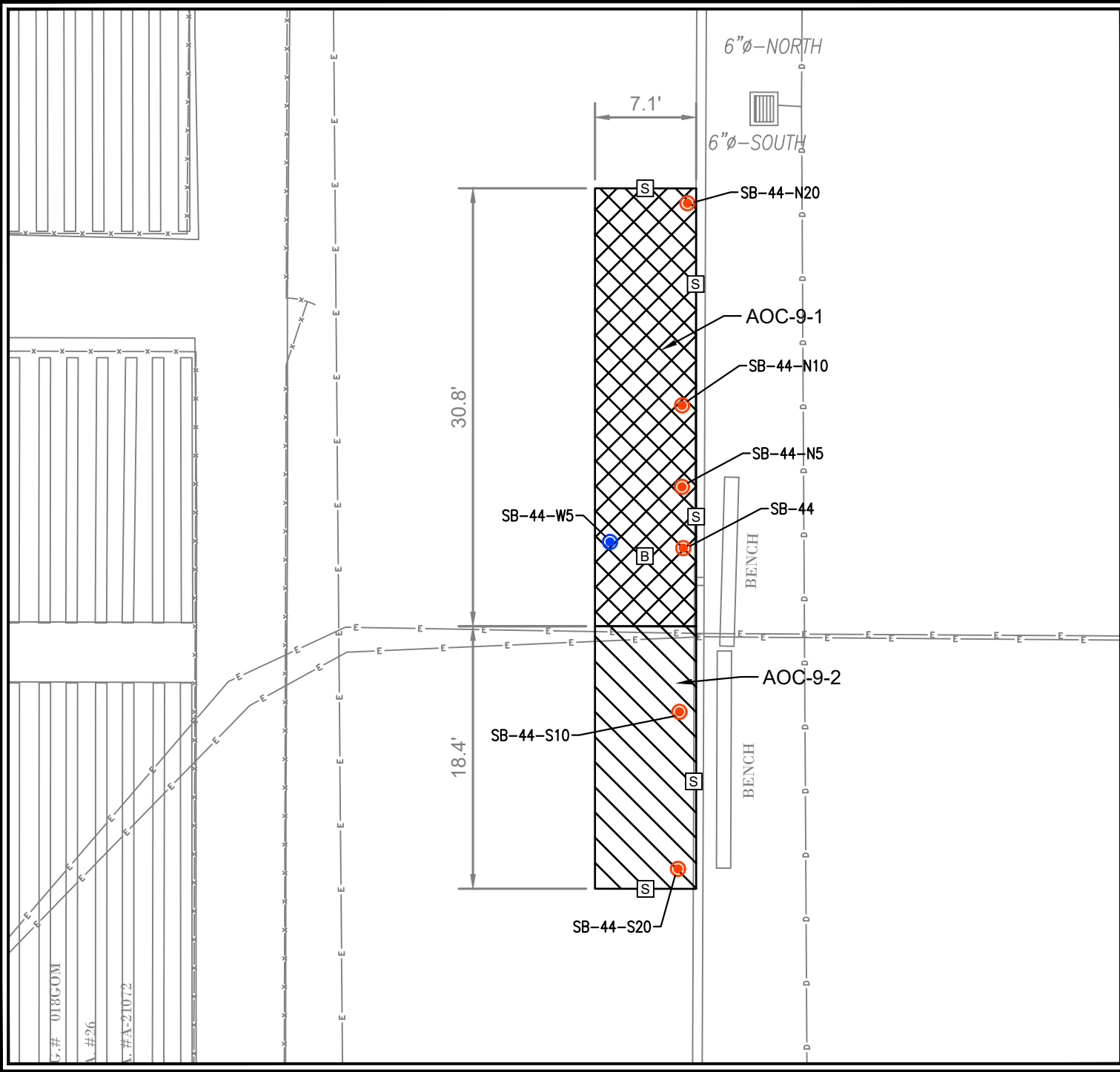


FIGURE 3i

**AOC-9 ESTIMATED
EXCAVATION LIMITS FOR
ARSENIC IMPACTED SOIL**

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- Proposed Sidewall Confirmation Sample Location
- Proposed Bottom Confirmation Sample Location

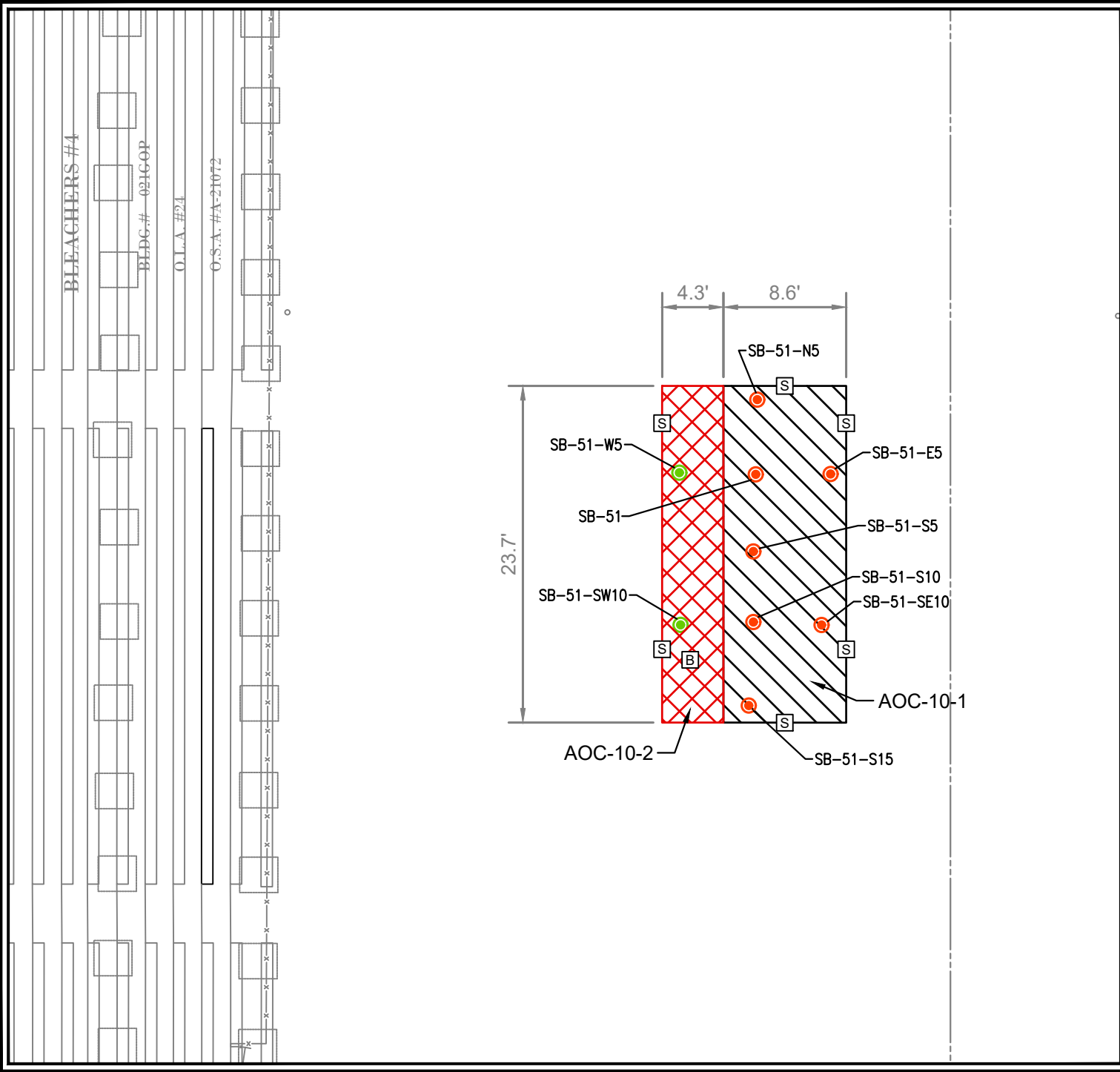


FIGURE 3j

**AOC-10 ESTIMATED
EXCAVATION LIMITS FOR
ARSENIC IMPACTED SOIL**

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Arsenic STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- Proposed Sidewall Confirmation Sample Location
- Proposed Bottom Confirmation Sample Location

PARSONS

0 5 10 Feet



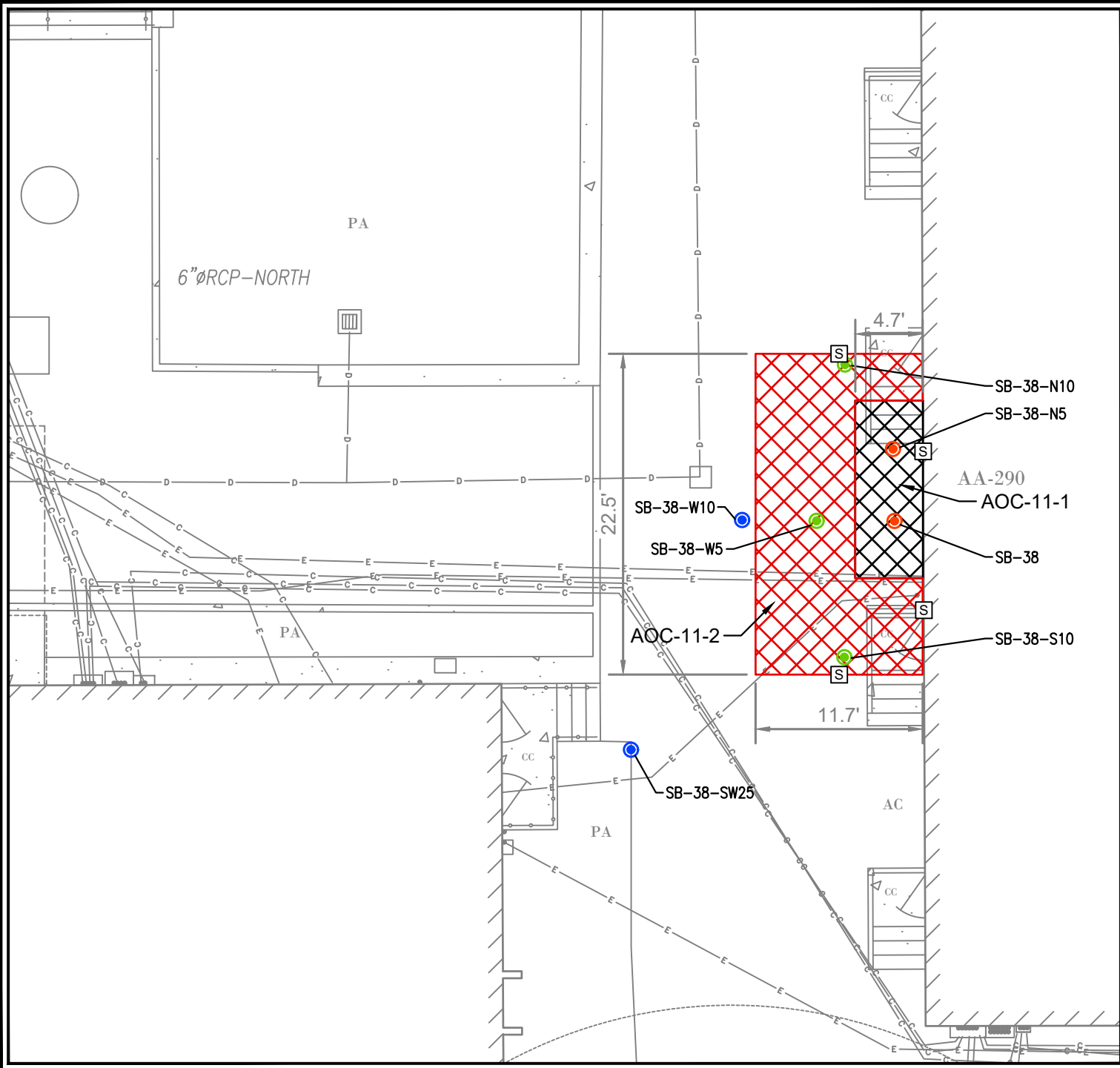


FIGURE 3k

**AOC-11 ESTIMATED
EXCAVATION LIMITS FOR
ARSENIC IMPACTED SOIL**

Canoga Park High School
6850 CA-27
Canoga Park, California

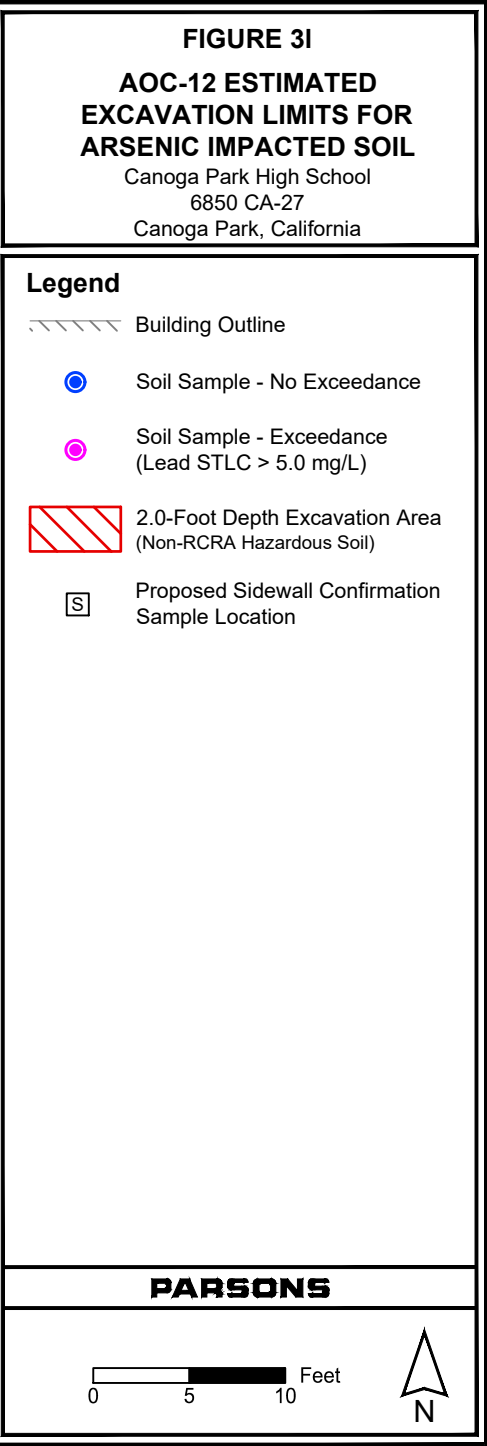
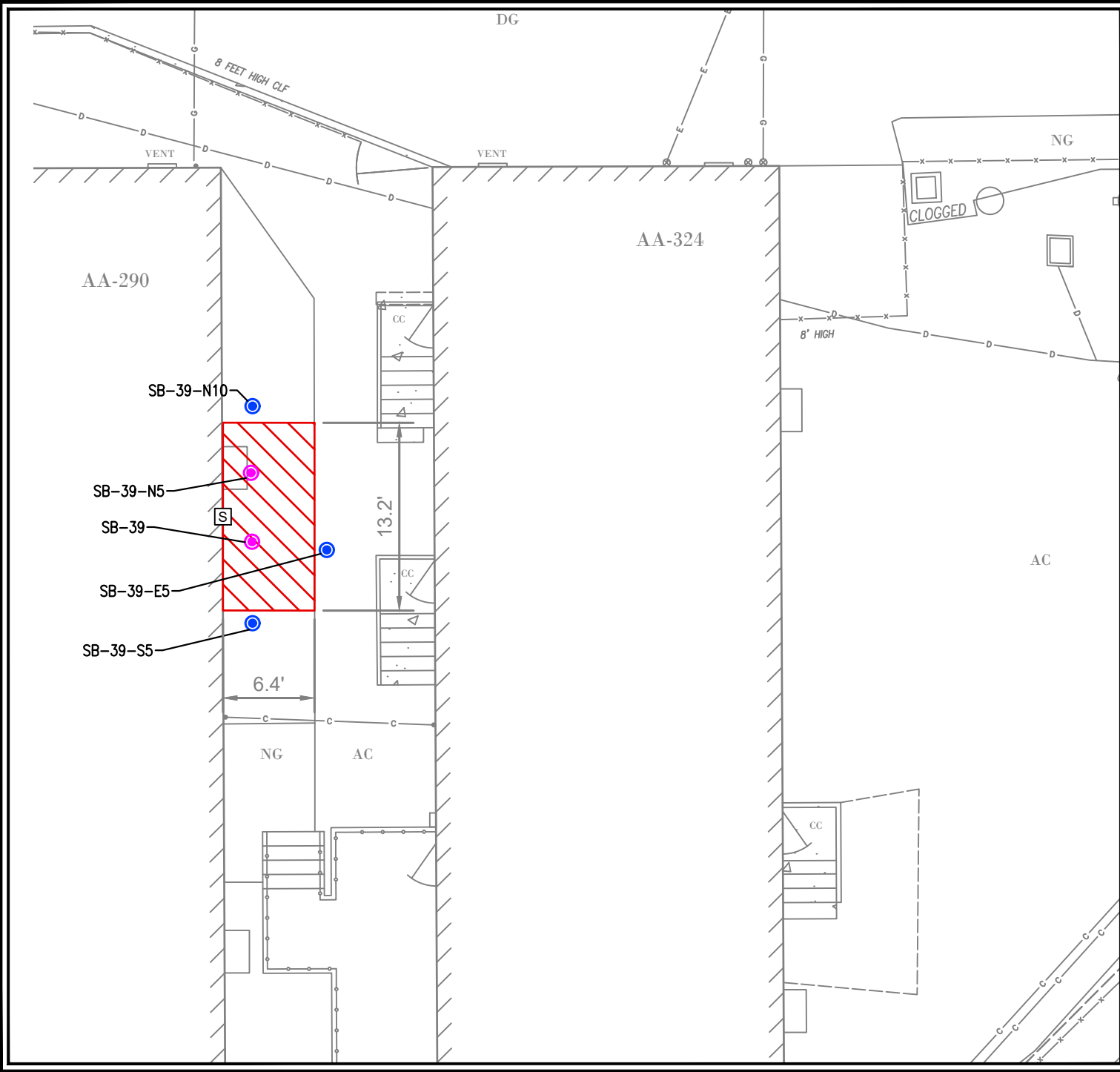
Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Arsenic STLC > 5.0 mg/L)
- 3.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil 0-2' bgs, Non-Hazardous Soil 2'-3' bgs)
- Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet





APPENDICES

APPENDIX A

SURVEY

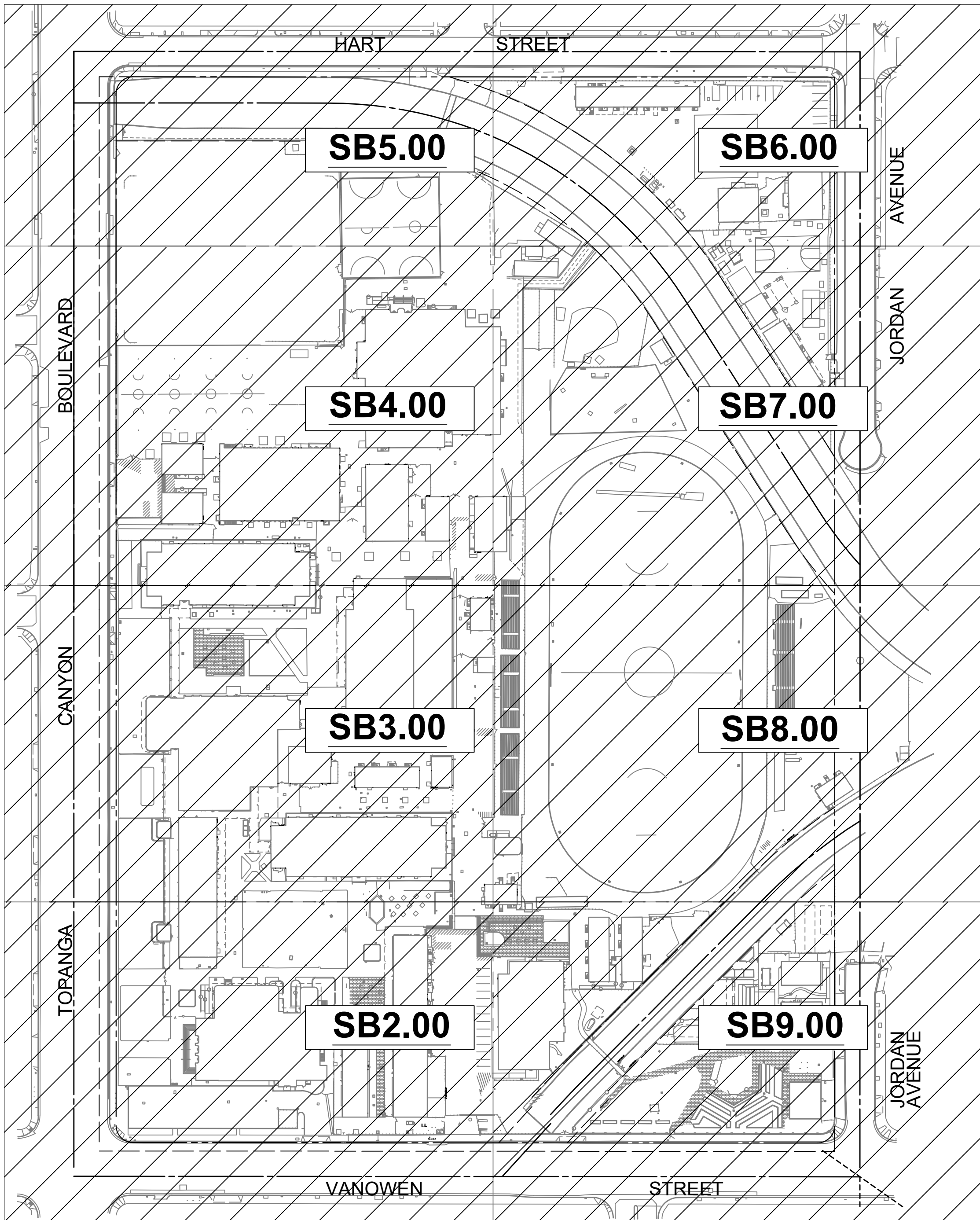
SURVEYED LOCATIONS
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

SHEET	SOIL BORING NUMBER	EASTING	NORTHING	ELEVATION	DESCRIPTION
SB9.00	SOIL BORING-1	5279.158056	5635.493523	796.83	SB-39-N10=NG
SB9.00	SOIL BORING-2	5274.469784	5635.386767	796.88	SB-39-N5=NG
SB9.00	SOIL BORING-3	5269.633138	5635.457129	796.96	SB-39-NG
SB9.00	SOIL BORING-4	5269.055172	5640.71125	797.13	SB-39-E5=AC
SB9.00	SOIL BORING-5	5263.902611	5635.493809	796.89	SB-39-S5=NG
SB8.00	SOIL BORING-6	5551.555108	5881.430152	795.97	SB-51-SW10=AC
SB8.00	SOIL BORING-7	5562.250179	5881.343584	795.93	SB-51-W5=AC
SB8.00	SOIL BORING-8	5567.381012	5886.823059	795.82	SB-51-N5=AC
SB8.00	SOIL BORING-9	5562.131904	5886.708068	795.81	SB-51=AC
SB8.00	SOIL BORING-10	5556.714844	5886.541481	795.83	SB-51-S5=AC
SB8.00	SOIL BORING-11	5551.756881	5886.545756	795.85	SB-51-S10=AC
SB8.00	SOIL BORING-12	5545.888281	5886.217396	795.93	SB-51-S15=AC
SB8.00	SOIL BORING-13	5551.553247	5891.335875	795.77	SB-51-SE10=AC
SB8.00	SOIL BORING-14	5562.159027	5891.965929	795.68	SB-51-E5=AC
SB9.00	SOIL BORING-15	5266.067318	5603.678985	797.04	SP-38-N10=AC
SB9.00	SOIL BORING-16	5260.132904	5607.057843	797.13	SP-38-N5=AC
SB9.00	SOIL BORING-17	5255.070561	5607.161777	797.16	SB-38=AC
SB9.00	SOIL BORING-18	5255.084087	5601.689405	797.13	SB-38-W5=AC
SB9.00	SOIL BORING-19	5255.135586	5596.459936	797.25	SB-38-W10=AC
SB9.00	SOIL BORING-20	5245.49973	5603.642168	797.35	SB-38-S10=AC
SB9.00	SOIL BORING-21	5238.999265	5588.649354	797.40	SB-38-SW25=NG
SB8.00	SOIL BORING-22	5591.947346	5556.186796	796.18	SB-44-W5=DG
SB8.00	SOIL BORING-23	5615.741293	5561.631197	795.86	SB-44-N20=DG
SB8.00	SOIL BORING-24	5601.54237	5561.255297	796.09	SB-44-N10=DG
SB8.00	SOIL BORING-25	5595.820702	5561.24979	796.05	SB-44-N5=DG
SB8.00	SOIL BORING-26	5591.5137	5561.341955	796.09	SB-44=DG
SB8.00	SOIL BORING-27	5580.015712	5561.068101	796.12	SB-44-S10=DG
SB8.00	SOIL BORING-28	5568.983502	5560.966771	796.10	SB-44-S20=DG
SB3.00	SOIL BORING-29	5328.745631	5481.589695	797.79	SB-34-N10=AC
SB3.00	SOIL BORING-30	5319.178286	5481.728434	797.72	SB-34=AC
SB2.00	SOIL BORING-31	5310.696004	5481.825909	797.76	SB-34-S10=AC
SB3.00	SOIL BORING-32	5318.90941	5477.639089	797.77	UC=AC
SB3.00	SOIL BORING-33	5448.263461	5345.847389	798.25	SB-28-W10=AC
SB3.00	SOIL BORING-34	5447.872279	5360.505584	798.20	SB-28=AC
SB3.00	SOIL BORING-35	5448.099284	5371.214255	798.26	SB-28-E10=AC
SB3.00	SOIL BORING-36	5526.582012	5429.262971	797.61	SB-26-E25=AC
SB3.00	SOIL BORING-37	5526.426027	5417.004634	797.64	SB-26-E15=AC
SB3.00	SOIL BORING-38	5526.470246	5410.897013	797.62	SB-26-E10=AC
SB3.00	SOIL BORING-39	5526.652216	5405.975782	797.65	SB-26-E5=AC
SB3.00	SOIL BORING-40	5526.405896	5400.796837	797.69	SB-26=AC
SB3.00	SOIL BORING-41	5526.404329	5395.693612	797.77	SB-26-W5=AC

SURVEYED LOCATIONS
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

SHEET	SOIL BORING NUMBER	EASTING	NORTHING	ELEVATION	DESCRIPTION
SB3.00	SOIL BORING-42	5526.32642	5391.213132	797.81	SB-26-W10=AC
SB3.00	SOIL BORING-43	5526.469776	5385.609178	797.81	SB-26-W15=AC
SB3.00	SOIL BORING-44	5521.279649	5400.823583	797.68	SB-26-S5=AC
SB3.00	SOIL BORING-45	5516.672301	5391.153962	797.75	SB-26-SW10=AC
SB3.00	SOIL BORING-46	5516.846942	5400.730687	797.64	SB-26-S10=AC
SB3.00	SOIL BORING-47	5516.395857	5411.210628	797.52	SB-26-SE10=AC
SB3.00	SOIL BORING-48	5530.529367	5398.620686	797.74	SB-26-NW5=AC
SB8.00	SOIL BORING-49	5628.817215	5492.563863	797.10	SB-20=AC
SB8.00	SOIL BORING-50	5623.095803	5491.062887	797.15	SB-20-S5=AC
SB4.00	SOIL BORING-51	5758.850716	5091.498379	797.85	SB-7-SW25=AC
SB4.00	SOIL BORING-52	5758.791734	5097.840149	797.87	SB-7-SW20=AC
SB4.00	SOIL BORING-53	5758.900024	5102.092568	797.90	SB-7-S20=AC
SB4.00	SOIL BORING-54	5795.453963	5101.889514	797.82	SB-7-N10=AC
SB4.00	SOIL BORING-55	5789.992705	5101.815331	797.89	SB-7-N5=AC
SB4.00	SOIL BORING-56	5784.856287	5102.038745	797.83	SB-7=AC
SB4.00	SOIL BORING-57	5779.63732	5102.059612	797.83	SB-7-S5=AC
SB4.00	SOIL BORING-58	5774.577608	5101.974859	797.80	SB-7-S10=AC
SB4.00	SOIL BORING-59	5784.41802	5096.855942	797.82	SB-7-W5=AC
SB4.00	SOIL BORING-60	5784.683349	5091.723183	797.77	SB-7-W10=AC
SB4.00	SOIL BORING-61	5860.493989	5145.863164	797.46	SB-5-E20=NG
SB4.00	SOIL BORING-62	5859.983031	5133.989866	797.36	SB-5-E5=NG
SB4.00	SOIL BORING-63	5859.625146	5129.428832	797.41	SB-5=NG
SB4.00	SOIL BORING-64	5859.493946	5125.116245	797.36	SB-5-W5=NG
SB4.00	SOIL BORING-65	5864.439334	5114.432056	797.39	SB-5-W15=NG
SB4.00	SOIL BORING-66	5863.835985	5125.224556	797.38	SB-5-NW5=NG
SB4.00	SOIL BORING-67	5864.978654	5134.358864	797.43	SB-5-NE5=NG
SB6.00	SOIL BORING-68	6123.687757	5558.352642	796.21	SB-1-NE5=NG
SB6.00	SOIL BORING-69	6120.79427	5555.469876	796.25	SB-1=NG
SB6.00	SOIL BORING-70	6122.633264	5551.286761	796.25	SB-1-NW5=NG
SB6.00	SOIL BORING-71	6125.482887	5547.150973	796.11	SB-1-NW10=NG
SB6.00	SOIL BORING-72	6117.743402	5543.606751	796.35	SB-1-W10=NG
SB6.00	SOIL BORING-73	6117.427146	5548.584362	796.19	SB-1-SW5=NG
SB6.00	SOIL BORING-74	6112.897313	5545.798966	796.14	SB-1-SW10=NG
SB6.00	SOIL BORING-75	6108.438266	5542.693682	796.20	SB-1-SW20=NG
SB7.00	SOIL BORING-76	6085.508708	5571.411795	796.25	SB-3-NW5=AC
SB7.00	SOIL BORING-77	6082.846663	5576.582358	796.16	SB-3=NG
SB7.00	SOIL BORING-78	6077.777546	5574.820731	796.05	SB-3-SW5=NG
SB7.00	SOIL BORING-79	6073.810872	5573.512196	795.97	SB-3-SW10=NG
SB7.00	SOIL BORING-80	6069.636505	5581.556707	795.80	SB-3-S15=NG
SB7.00	SOIL BORING-81	6073.988784	5579.953643	795.89	SB-3-S10=NG
SB7.00	SOIL BORING-82	6075.896475	5584.194087	795.87	SB-3-SE10=NG
SB7.00	SOIL BORING-83	6078.744003	5579.742509	795.97	SB-3-SE5=NG

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BASIS OF BEARING

THE HORIZONTAL BASIS OF BEARING FOR THIS TOPOGRAPHIC MAP IS THE CENTERLINE OF TOPANGA CANYON BOULEVARD (FORMERLY TOPANGA CANYON AVENUE) BEING "NORTH" AS SHOWN ON TRACT NO. 9267, MB. 136/98-99.

BENCHMARK

CITY OF LOS ANGELES BENCHMARK NO. 06-06688
DESCRIPTION: WIRE SPK IN N CURB VANOWEN ST; 0.4FT E OF C CURB RETURN E OF TOPANGA CANYON BLVD
ELEVATION = 799.284' (NAVD 1988) YEAR 2000

LAUSD BENCHMARK:
CHIS "X", N ARCADE WEST SIDE OF CAFETERIA BUILDING #31'
PLUS OR MINUS E/O S AND E LINES PROD.
BLDG. # "E" ELEVATION = 796.02

ESTABLISHED BENCHMARK:
N ARCADE WEST SIDE OF CAFETERIA
ELEVATION = 798.75' IS BASED ON CITY OF LOS ANGELES BENCHMARK.

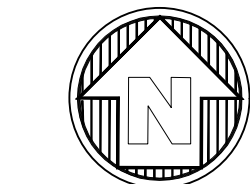
CONVERSION TO LAUSD BENCH MARK
LAUSD BM = 798.75 - 2.73 = 796.02

TOPOGRAPHIC SURVEY NOTES:

- 1. THIS MAP REPRESENTS A TOPOGRAPHIC SURVEY OF VISIBLE FIELD CONDITIONS AT THE TIME OF THIS SURVEY.
- 2. AS-BUILTS PROVIDED BY LAUSD ARE FOR REFERENCE ONLY.
- 3. NO ADDITIONAL SURVEY AND GPR THAT WAS RECENTLY REQUESTED IN THIS DRAWING.

LEGEND

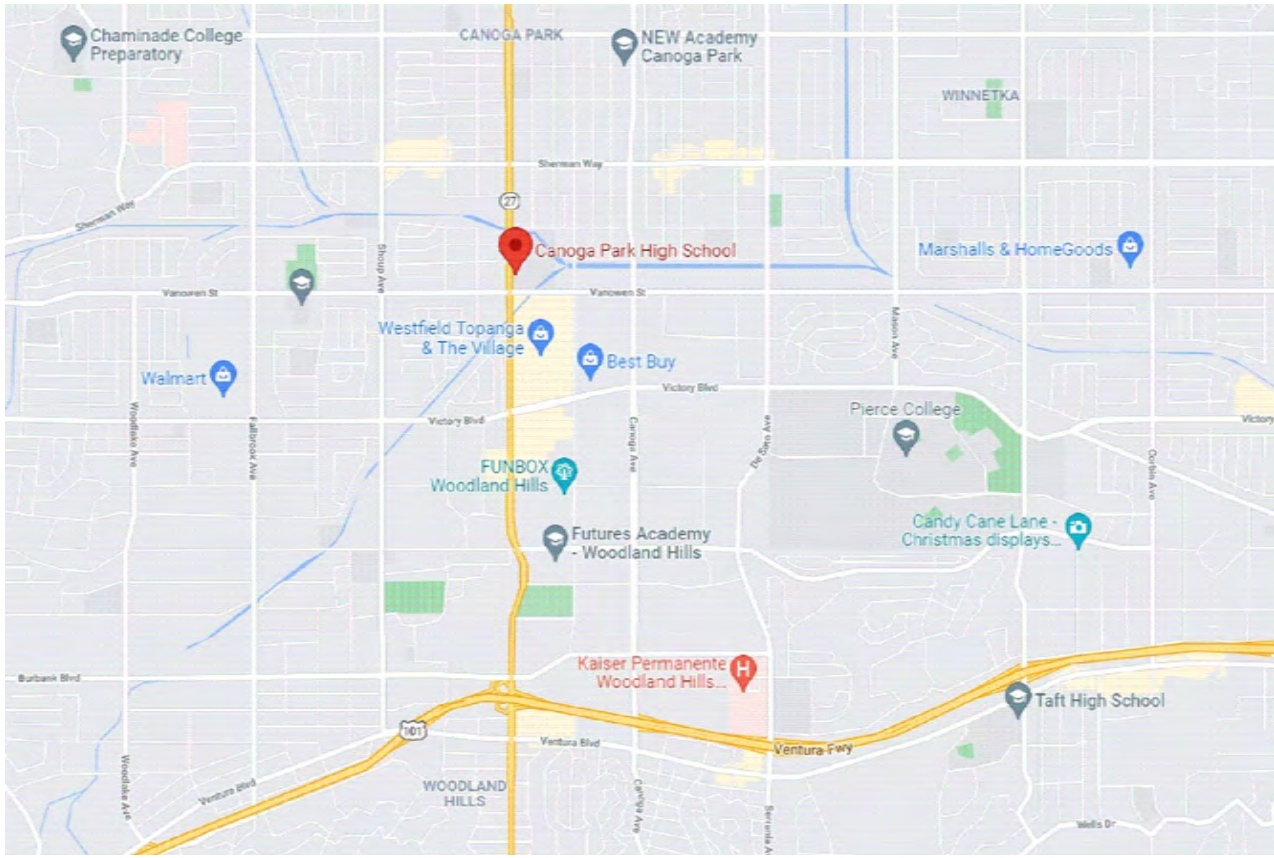
CEMENT CONCRETE	
CENTERLINE	
EASEMENT	
PROPERTY LINE	
CHAIN LINK FENCE	
EXISTING CONTOUR LINE	
FLOWLINE	
RIDGE, GRADE BREAK	
WROUGHT IRON FENCE	
PAINT STRIPING	
TREE DRIPLINE	
OVERHEAD: ROOF, STRUCTURE	
TRUNCATED DOME	
LAUSD AS-BUILT: COMMUNICATION	
LAUSD AS-BUILT: ELECTRIC	
LAUSD AS-BUILT: FIRE ALARM	
LAUSD AS-BUILT: GAS	
LAUSD AS-BUILT: IRRIGATION	
LAUSD AS-BUILT: SEWER	
LAUSD AS-BUILT: STORM DRAIN	
LAUSD AS-BUILT: WATER	



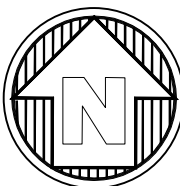
KEYMAP:
SCALE: 1" = 100'

SYMBOLS

BOLLARD	
GAS VALVE	
FIRE HYDRANT	
LIGHT POST	
LIGHT STANDARD	
POWER POLE	
SEWER MANHOLE	
STORM DRAIN MANHOLE	
STREET SIGN, SIGN POST	
SURVEY WELL MONUMENT	
TRAFFIC SIGNAL	
TREE	
VALVE, DOWNSPOUT, PIPE, CONDUIT	
WATER VALVE	
YARD BOX	

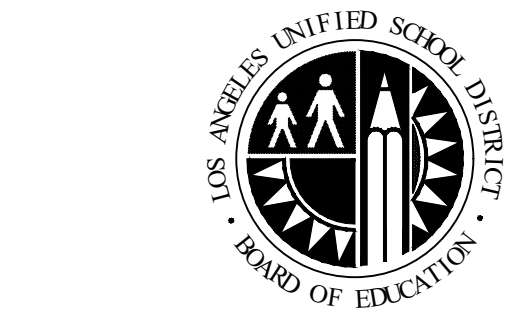


VICINITY MAP
NOT TO SCALE



ABBREVIATIONS

ACU	AIR CONDITIONING UNIT	NG	NATURAL GROUND, DIRT
AC	ASPHALT CONCRETE	OH	OVERHEAD
BF	BACKFLOW	PNL	PANEL
BFP	BACKFLOW PREVENTER	PVR	PAVERS
BW	BACK OF WALK	PA	PLANTER AREA
BBP	BASKETBALL POST	POC	POINT OF CONNECTION
BM	BENCHMARK	PIV	POST INDICATOR VALVE
BOL	BOLLARD	POW	POWER
BOT	BOTTOM	PP	POWER POLE
BBS	BOTTOM OF BOTTOM STEP	PV	POWER VAULT
BRAMP/BR	BOTTOM OF RAMP	PB	PULLBOX
BX	BOTTOM OF "X"	PVC	PVC PIPE
BLDR	BOULDER	RCV	REMOTE CONTROL VALVE
BRK	BRICK	R/W	RIGHT-OF-WAY
BLDG	BUILDING	SCPR	SCRAPPER
CIP	CAST IRON PIPE	SD	STORM DRAIN
CB	CATCH BASIN	SDMH	STORM DRAIN MANHOLE
CC	CEMENT CONCRETE	SDPB	STORM DRAIN PULL BOX
CL	CENTERLINE	SIG	SIGNAL
CLF	CHAIN LINK FENCE	SL	STREET LIGHT
CO	CLEAN-OUT	SMH	SEWER MANHOLE
COL	COLUMN	SPB	SEWER PULL BOX
CMU	CONCRETE MASONRY UNIT	SWR	SEWER
CNDT	CONDUIT	SLHV	STREET LIGHTING HIGH VOLTAGE
DG	DECOMPOSED GRANITE	SLP	STREET LIGHT POST
DS	DOWNSPOUT	SLPB	STREET LIGHTING PULL BOX
DF	DRINKING FOUNTAIN	SS	STREET SIGN
DWY	DRIVEWAY	SV	SIGNAL VAULT
ECNDT	ELECTRICAL CONDUIT	TEL	TELEPHONE
EG	EDGE OF GUTTER	TV	TELEVISION
ELEC	ELECTRIC	TH	THRESHOLD
ECNDT	ELECTRIC CONDUIT	TB	TOP OF BENCH
EMH	ELECTRIC MANHOLE	TBS	TOP OF BOTTOM STEP
E-PNL	ELECTRIC PANEL	TAD	TOP OF AREA DRAIN
EPB	ELECTRIC PULL BOX	TC	TOP OF CURB
EV	ELECTRIC VAULT	TCB	TOP OF CATCH BASIN
EVB	ELECTRIC YARD BOX	TFD	TOP OF FLOOR DRAIN
ENG	ENCLOSURE	TG	TOP OF GRATE
FF	FINISH FLOOR	TMH	TOP OG MANHOLE
FA	FIRE ALARM	TRAMP/TR	TOP OF RAMP
FDC	FIRE DEP. CONNECTION	TSLPB	TOP SLOPE
FIRE-EX	FIRE EXTINGUISHER	TTS	TOP OF TOP STEP
FH	FIRE HYDRANT	TW	TOP OF WALL
FW	FIRE WATER	TX	TOP OF "X"
FP	FLAGPOLE	TSP	TRAFFIC SIGN POST
FD	FLOOR DRAIN	TS	TRAFFIC SIGNAL
FL	FLOW LINE	TSV	TRAFFIC SIGNAL VAULT
FTG	FOOTING	UG	UNDERGROUND
HB	HOSE BIB	UV	UNKNOWN VAULT
IRR	IRRIGATION	VLT	VAULT
GM	GAS METER	VCP	VITRIFIED CLAY PIPE
GV	GAS VALVE	VBP	VOLLEYBALL POST
GB	GRADE BREAK	WTR	WATER
GC	GRADE CHANGE	WM	WATER METER
GVL	GRAVEL	WPB	WATER PULL BOX
GND	GROUND	WV	WATER VAULT
GBP	GROUND PULL BOX	WH	WEEP HOLE
GA	GUY ANCHOR	WD	WOOD
ICV	IRRIGATION CONTROL VALVE	WSC	WOOD STORAGE CONTAINER
INV	INVERT	WIF	WROUGHT IRON FENCE
JB	JUNCTION BOX	XFOR	TRANSFORMER
LNDG	LANDING	YB	YARD BOX
LP	LIGHT POST	YBE	YARD BOX - ELECTRIC
LS	LIGHT STANDARD	YBG	YARD BOX - GAS
MH	MANHOLE	YBS	YARD BOX - SEWER
MISC/MSC	MISCELLANEOUS/METAL STORAGE CONTAINER	YBSD	YARD BOX - STORM DRAIN
MS	MOW STRIP	YBU	YARD BOX - UNKNOWN
MLCH	MULCH	YBW	YARD BOX - WATER
MTT	MULTI-TRUNK TREE	DWPWS	DEPARTMENT OF WATER AND POWER WATER SYSTEMS
		SCG	SOTHERN CALIFORNIA GAS



LOS ANGELES UNIFIED
SCHOOL DISTRICT
DESIGN AND A/E
TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

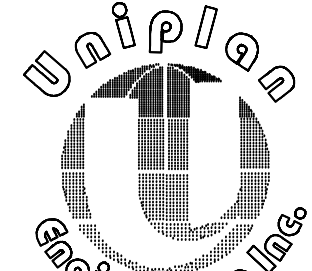
SOIL BORING
SURVEY

CANOGA PARK
HIGH SCHOOL

6850 CA-27,
CANOGA PARK, CA 91303

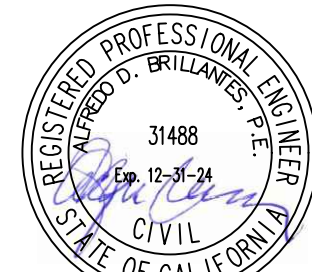
COMMISSIONED ARCHITECT

CONSULTANT



Civil Engineering Transportation & Traffic Engineering
Stormwater Management Land Planning
Construction Management & Inspection Surveying

STAMPS/SEALS



DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING
SURVEY

PROJECT NO.: — PROJECT ARCH: —
DRAWN: MT CHECKED: A,P

SHEET NUMBER

SB1.00

DATE: 07/20/23 SHEET: 1 OF: 9

"JANUARY 2007 VERSION"

MATCHLINE - SEE SHEET 3 OF 22

TOPANGA CANYON BOULEVARD

VANOWEN STREET

MATCHLINE - SEE SHEET 9 OF 22

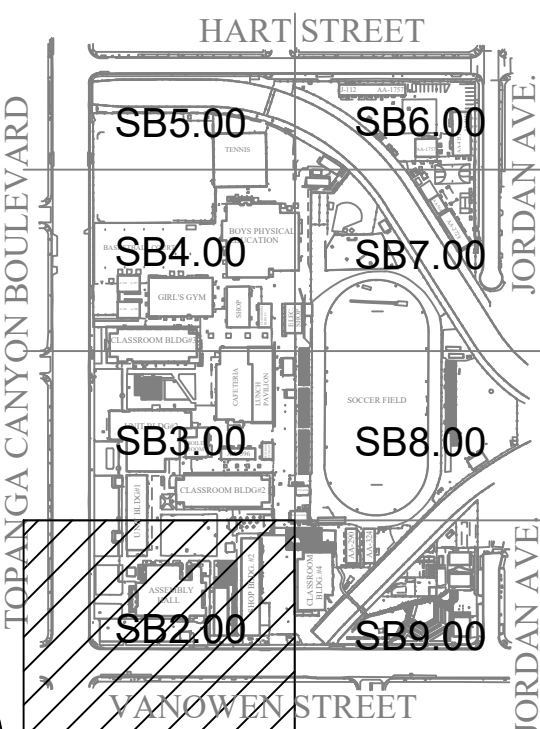
LEGEND

CEMENT CONCRETE	
CENTERLINE	
EASEMENT	
PROPERTY LINE	
CHAIN LINK FENCE	
EXISTING CONTOUR LINE	
FLOWLINE	
RIDGE, GRADE BREAK	
WROUGHT IRON FENCE	
PAINT STRIPING	
TREE DRIPLINE	
OVERHEAD, ROOF, STRUCTURE	
TRUNCATED DOME	

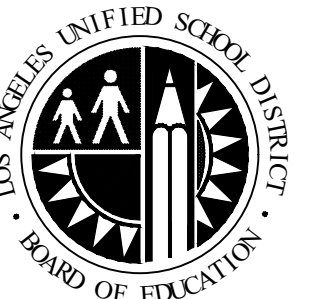
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LAUSD AS-BUILT: ELECTRIC	
LAUSD AS-BUILT: FIRE ALARM	
LAUSD AS-BUILT: GAS	
LAUSD AS-BUILT: IRRIGATION	
LAUSD AS-BUILT: SEWER	
LAUSD AS-BUILT: STORM DRAIN	
LAUSD AS-BUILT: WATER	

SYMBOLS

GAS VALVE	
FIRE HYDRANT	
LIGHT POST	
LIGHT STANDARD	
POWER POLE	
SEWER MANHOLE	
STORM DRAIN MANHOLE	
STREET SIGN, SIGN POST	
SURVEY WELL MONUMENT	
TRAFFIC SIGNAL	
TREE	
VALVE, DOWNSPOUT, PIPE, CONDUIT	
WATER VALVE	
YARD BOX	



KEYMAP
SCALE: NOT TO SCALE



LOS ANGELES UNIFIED
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FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

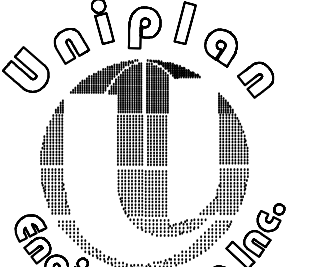
SOIL BORING
SURVEY

CANOGA PARK
HIGH SCHOOL

6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT



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Construction Management & Inspection Surveying

STAMPS/SEALS



DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING
SURVEY

PROJECT NO.: — PROJECT ARCH: —

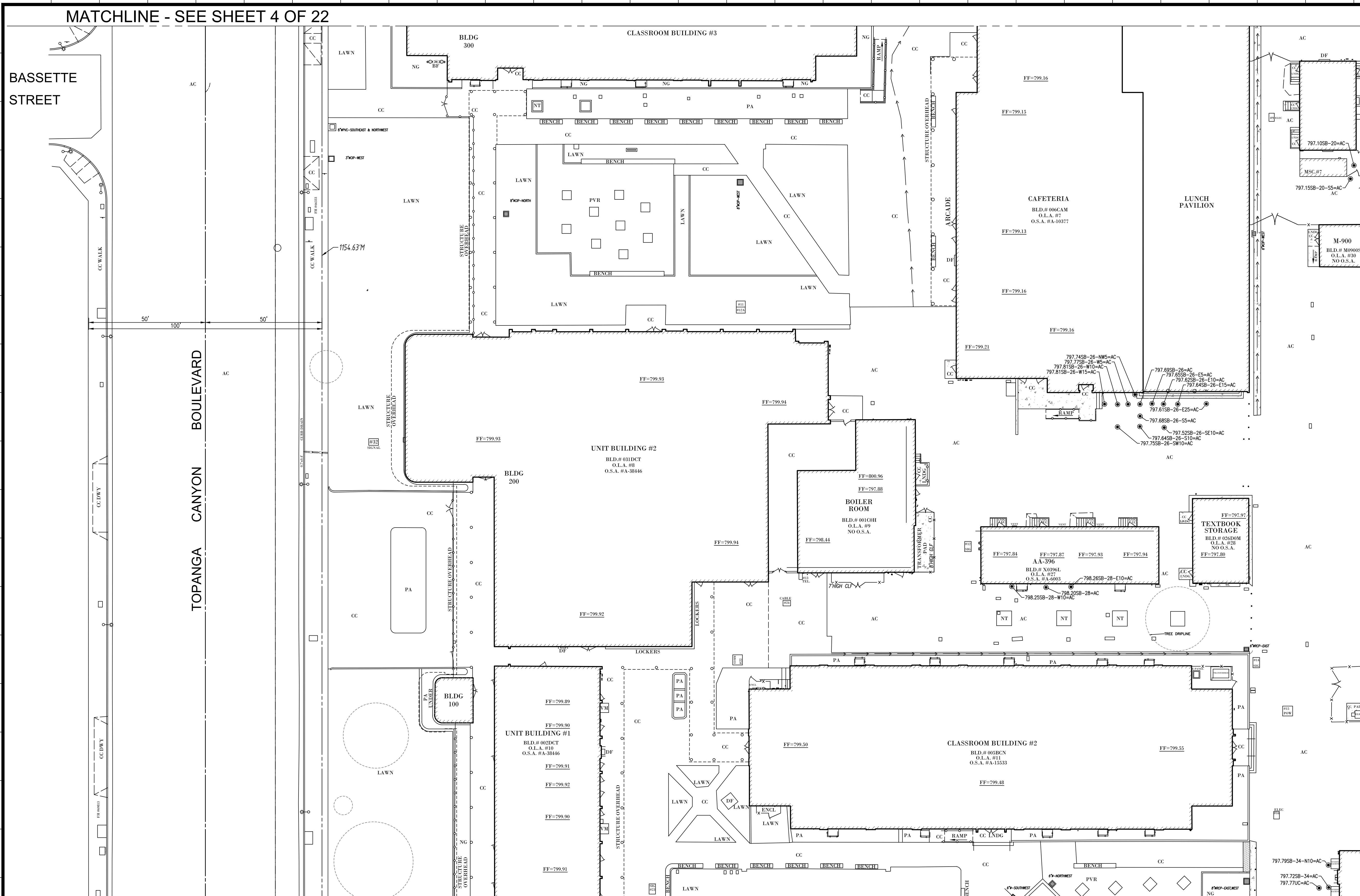
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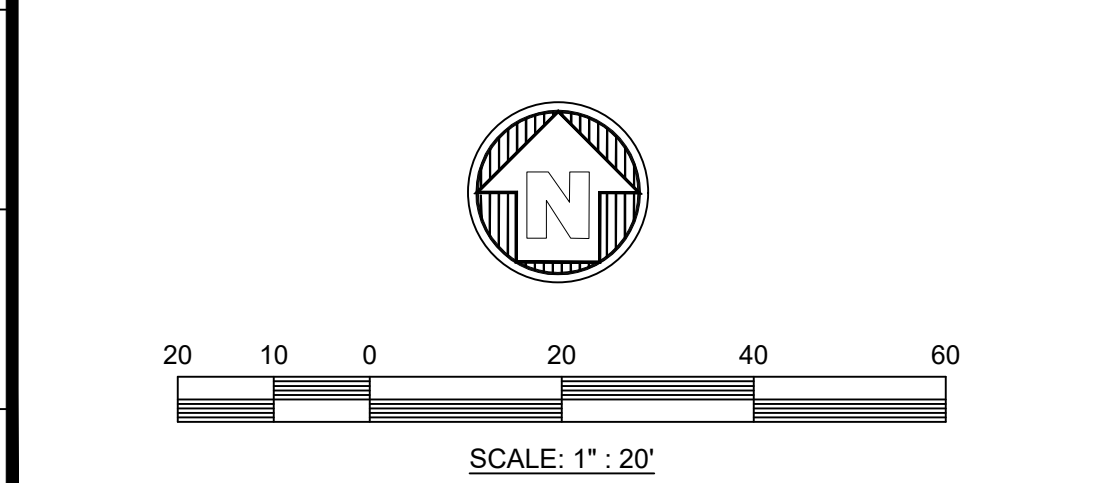
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DATE: 07/20/23 SHEET: 2 OF: 9

'JANUARY 2007 VERSION'



MATCHLINE - SEE SHEET 2 OF 22



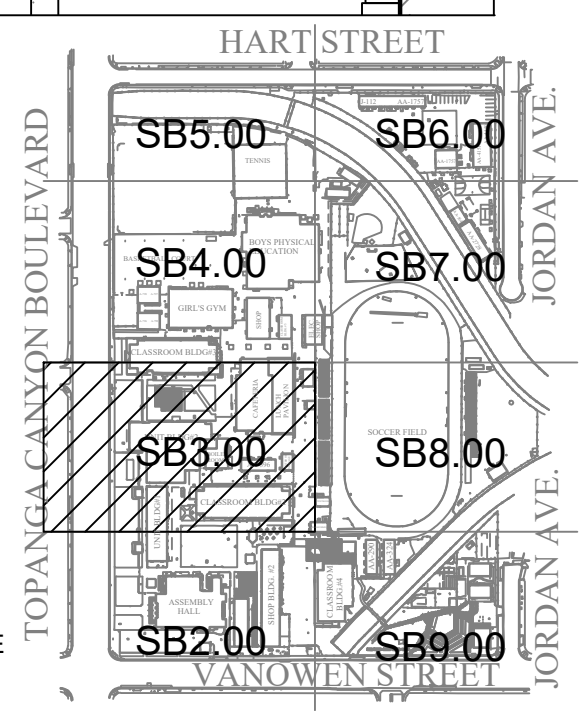
LEGEND

CEMENT CONCRETE	
CENTERLINE	
EASEMENT	
PROPERTY LINE	
CHAIN LINK FENCE	
EXISTING CONTOUR LINE	
FLOWLINE	
RIDGE, GRADE BREAK	
WROUGHT IRON FENCE	
PAINT STRIPING	
TREE DRIPLINE	
OVERHEAD: ROOF, STRUCTURE	
TRUNCATED DOME	

LAUSD AS-BUILT: COMMUNICATION
LAUSD AS-BUILT: ELECTRIC
LAUSD AS-BUILT: FIRE ALARM
LAUSD AS-BUILT: GAS
LAUSD AS-BUILT: IRRIGATION
LAUSD AS-BUILT: SEWER
LAUSD AS-BUILT: STORM DRAIN
LAUSD AS-BUILT: WATER

SYMBOLS

BOLLARD	
GAS VALVE	
FIRE HYDRANT	
LIGHT POST	
LIGHT STANDARD	
POWER POLE	
SEWER MANHOLE	
STORM DRAIN MANHOLE	
STREET SIGN, SIGN POST	
TRAFFIC SIGNAL	
TREE	
VALVE, DOWNSPOUT, PIPE, CONDUIT	
WATER VALVE	
YARD BOX	



MATCHLINE - SEE SHEET 8 OF 22



LOS ANGELES UNIFIED
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333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

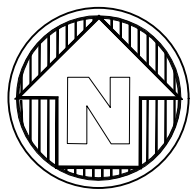
PROJECT TITLE AND SCHOOL LOCATION	
SOIL BORING SURVEY	
CANOGA PARK HIGH SCHOOL	
6850 CA-27, CANOGA PARK, CA 91303	
COMMISSIONED ARCHITECT	
CONSULTANT	
Civil Engineering Transportation & Traffic Engineering Stormwater Management Land Planning Construction Management & Inspection Surveying	
STAMPS/SEALS	
DIVISION OF THE STATE ARCHITECT	
SHEET TITLE:	
SOIL BORING SURVEY	
PROJECT NO.: —	PROJECT ARCH: —
DRAWN: MT	CHECKED: A.P
SHEET NUMBER	
SB3.00	
DATE: 07/20/23	SHEET: 3 OF: 9
JANUARY 2007 VERSION	

MATCHLINE - SEE SHEET 5 OF 22

SCHOOLCRAFT STREET

BOULEVARD
TOPONGA CANYON

MATCHLINE - SEE SHEET 3 OF 22



20 10 0 20 40 60
SCALE: 1" = 20'

LEGEND

CEMENT CONCRETE	
CENTERLINE	
EASEMENT	
PROPERTY LINE	
CHAIN LINK FENCE	
EXISTING CONTOUR LINE	
FLOWLINE	
RIDGE, GRADE BREAK	
WROUGHT IRON FENCE	

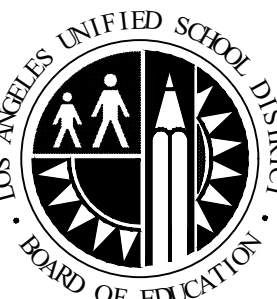
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TREE DRIPLINE	
OVERHEAD: ROOF, STRUCTURE	
LAUSD AS-BUILT: COMMUNICATION	
LAUSD AS-BUILT: ELECTRIC	
LAUSD AS-BUILT: FIRE ALARM	
LAUSD AS-BUILT: GAS	
LAUSD AS-BUILT: IRRIGATION	
LAUSD AS-BUILT: SEWER	
LAUSD AS-BUILT: STORM DRAIN	
LAUSD AS-BUILT: WATER	

SYMBOLS

BOLLARD	
GAS VALVE	
FIRE HYDRANT	
LIGHT POST	
LIGHT STANDARD	
POWER POLE	
SEWER MANHOLE	
STORM DRAIN MANHOLE	

STREET SIGN, SIGN POST	
TRAFFIC SIGNAL	
TREE	
VALVE, DOWNSPOUT, PIPE, CONDUIT	
WATER VALVE	
YARD BOX	

MATCHLINE - SEE SHEET 7 OF 22



LOS ANGELES UNIFIED
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333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

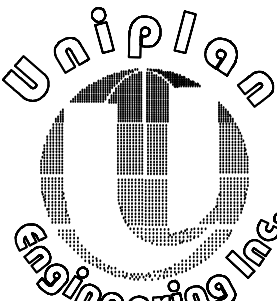
SOIL BORING
SURVEY

CANOGA PARK
HIGH SCHOOL

6850 CA-27,
CANOGA PARK, CA 91303

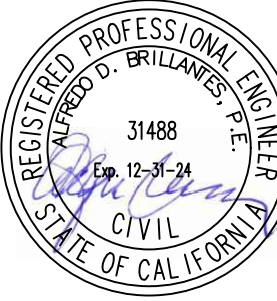
COMMISSIONED ARCHITECT

CONSULTANT



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Construction Management & Inspection Surveying

STAMPS/SEALS



DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING
SURVEY

PROJECT NO.:

PROJECT ARCH:

DRAWN: MT

CHECKED: A.P

SHEET NUMBER

SB4.00

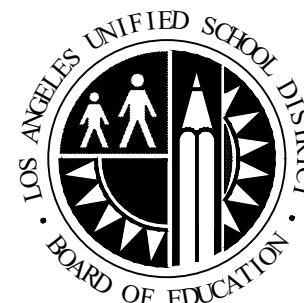
DATE:

07/20/23

SHEET:

4 OF 9

JANUARY 2007 VERSION



LOS ANGELES UNIFIED
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333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

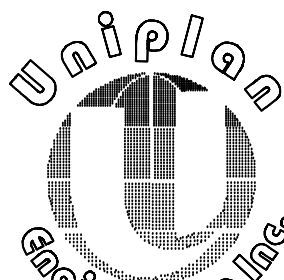
SOIL BORING
SURVEY

CANOGA PARK
HIGH SCHOOL

6850 CA-27,
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DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING
SURVEY

PROJECT NO.: —

PROJECT ARCH: —

DRAWN: MT

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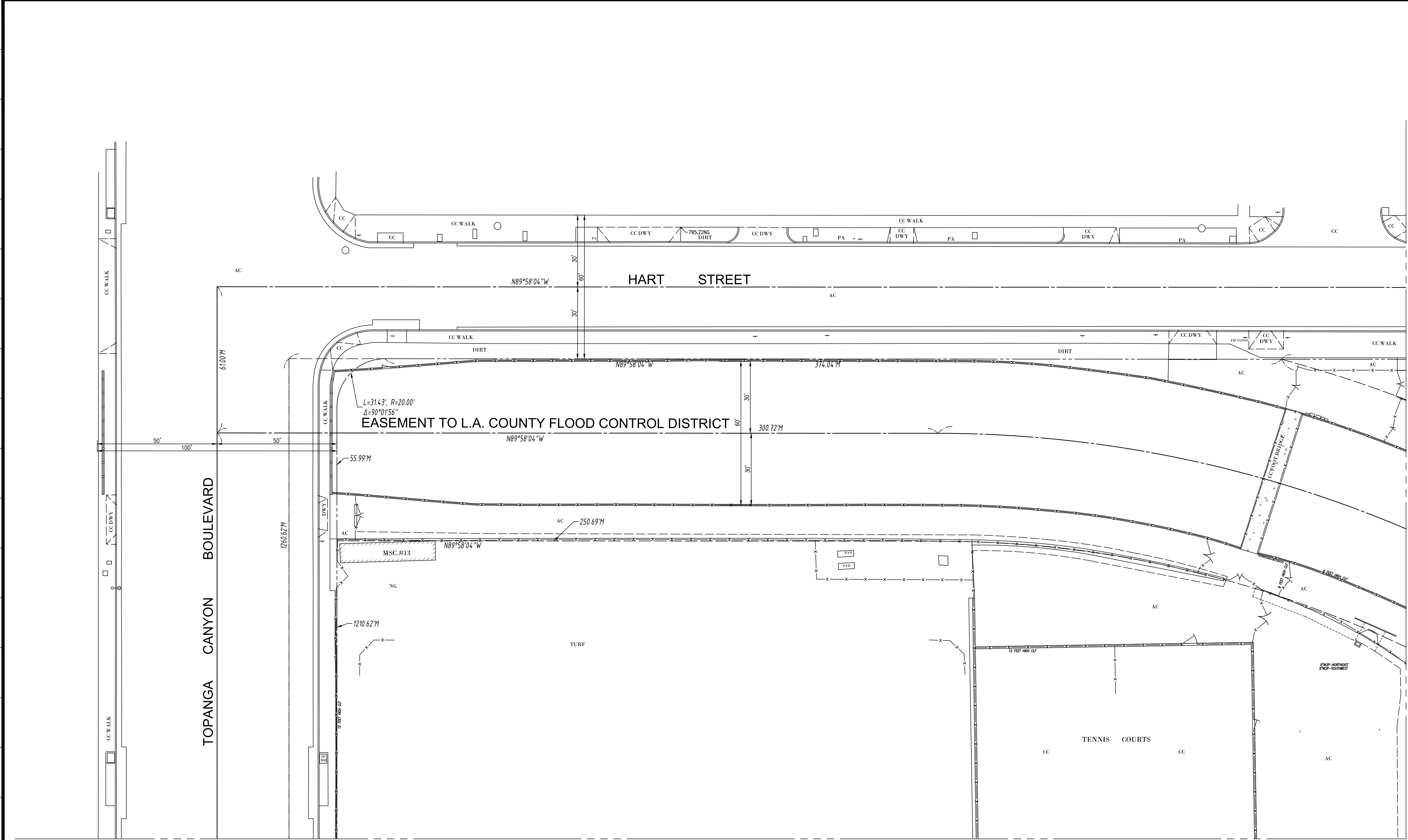
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SB5.00

DATE: 07/20/23

SHEET: 5 OF: 9

JANUARY 2007 VERSION



MATCHLINE - SEE SHEET 6 OF 22

MATCHLINE - SEE SHEET 4 OF 22

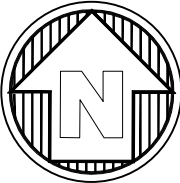
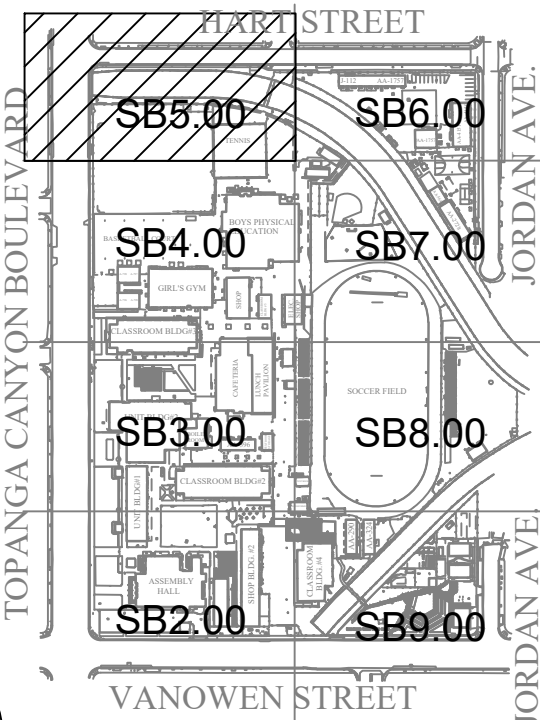
LEGEND

CEMENT CONCRETE	
CENTERLINE	
EASEMENT	
PROPERTY LINE	
CHAIN LINK FENCE	
EXISTING CONTOUR LINE	
FLOWLINE	
RIDGE, GRADE BREAK	
WROUGHT IRON FENCE	
PAINT STRIPING	
TREE DRIPLINE	
OVERHEAD: ROOF, STRUCTURE	

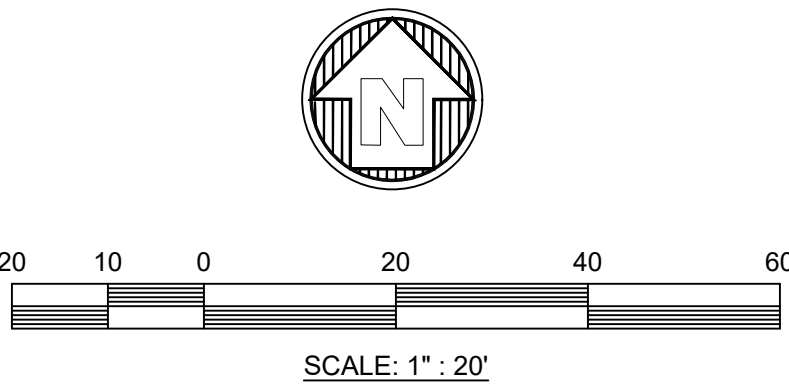
LAUSD AS-BUILT: COMMUNICATION	
LAUSD AS-BUILT: ELECTRIC	
LAUSD AS-BUILT: FIRE ALARM	
LAUSD AS-BUILT: GAS	
LAUSD AS-BUILT: IRRIGATION	
LAUSD AS-BUILT: SEWER	
LAUSD AS-BUILT: STORM DRAIN	
LAUSD AS-BUILT: WATER	

SYMBOLS

GAS VALVE	
FIRE HYDRANT	
LIGHT POST	
LIGHT STANDARD	
POWER POLE	
SEWER MANHOLE	
STORM DRAIN MANHOLE	
STREET SIGN, SIGN POST	
SURVEY WELL MONUMENT	
TRAFFIC SIGNAL	
TREE	
VALVE, DOWNSPOUT, PIPE, CONDUIT	
WATER VALVE	
YARD BOX	



KEYMAP
SCALE: NOT TO SCALE





**LOS ANGELES UNIFIED
SCHOOL DISTRICT**
DESIGN AND A/E
TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

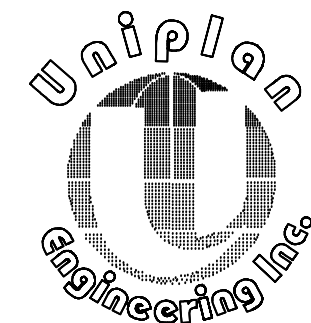
**SOIL BORING
SURVEY**

**CANOGA PARK
HIGH SCHOOL**

6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT



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Construction Management & Inspection Surveying

STAMPS/SEALS



DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

**SOIL BORING
SURVEY**

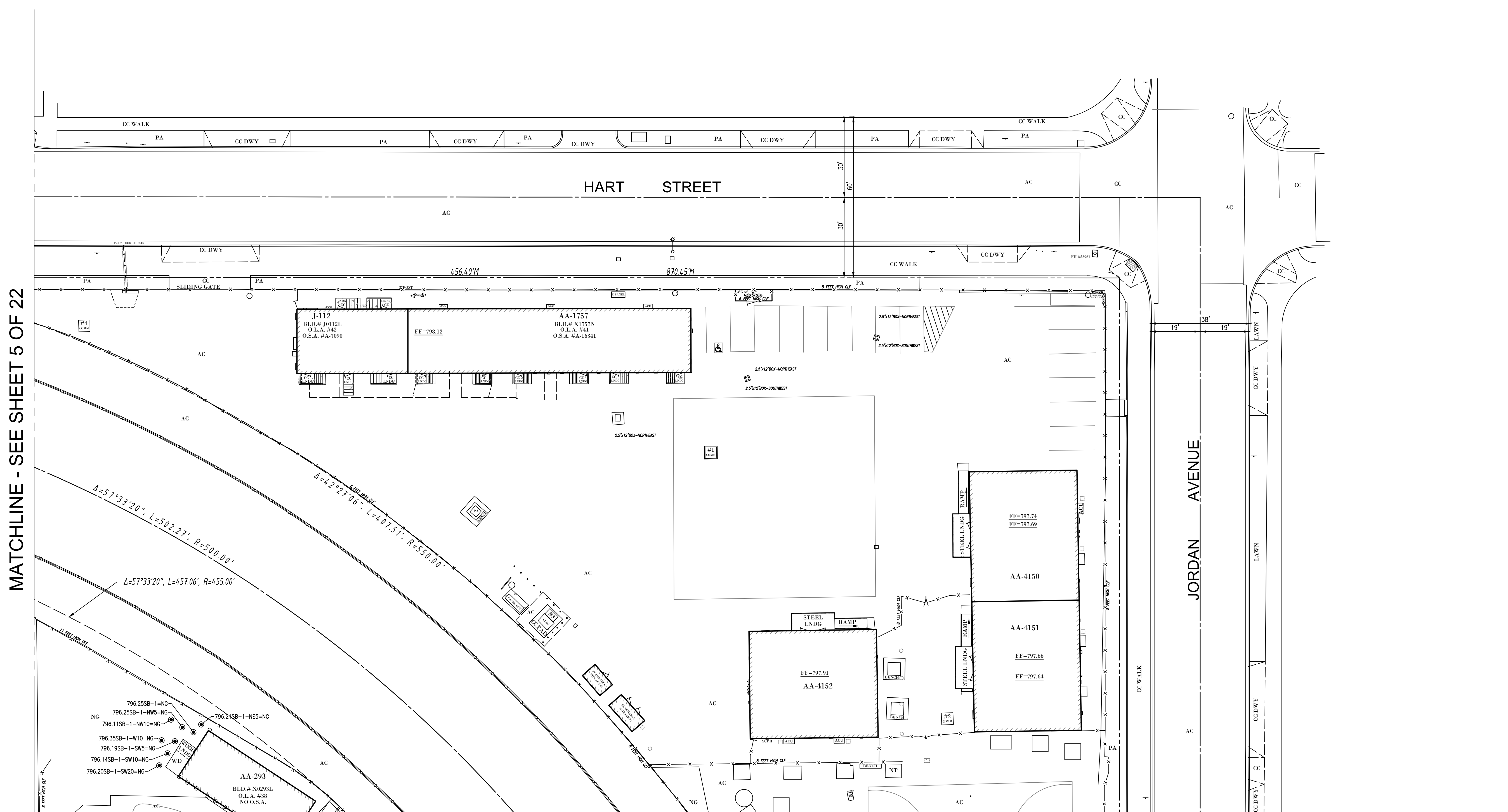
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SHEET NUMBER

SB6.00

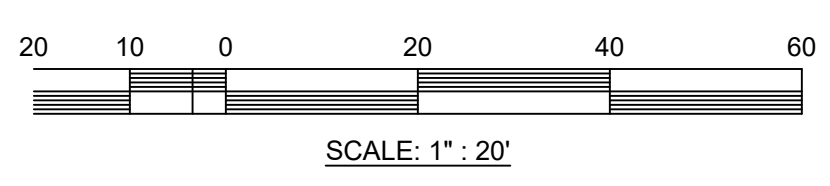
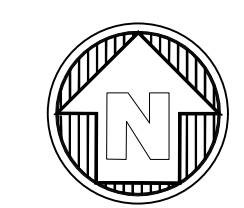
DATE: 07/20/23 SHEET: 6 OF: 9

"JANUARY 2007 VERSION"



MATCHLINE - SEE SHEET 5 OF 22

MATCHLINE - SEE SHEET 7 OF 22



SCALE: 1" = 20'

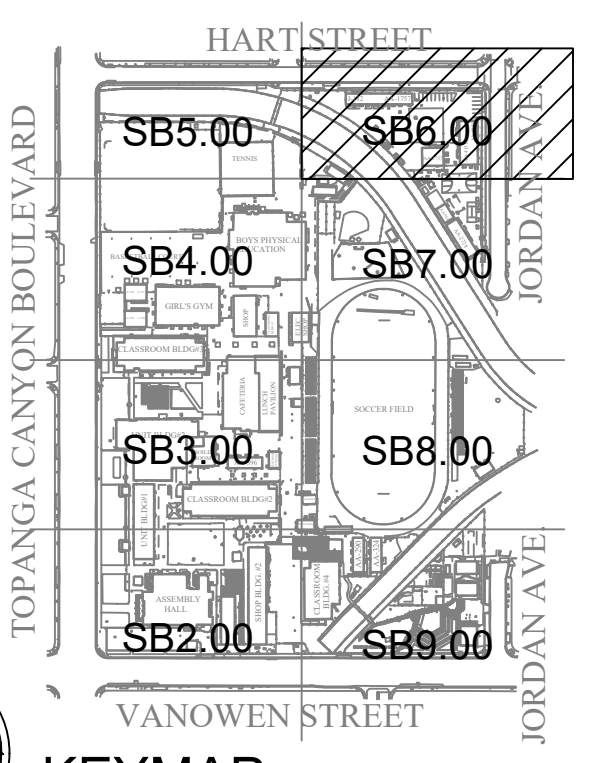
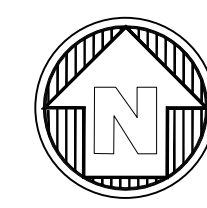
LEGEND

CEMENT CONCRETE	
CENTERLINE	
EASEMENT	
PROPERTY LINE	
CHAIN LINK FENCE	
EXISTING CONTOUR LINE	(150.00)
FLOWLINE	
RIDGE, GRADE BREAK	
WROUGHT IRON FENCE	
PAINT STRIPING	
TREE DRIPLINE	
OVERHEAD: ROOF, STRUCTURE	

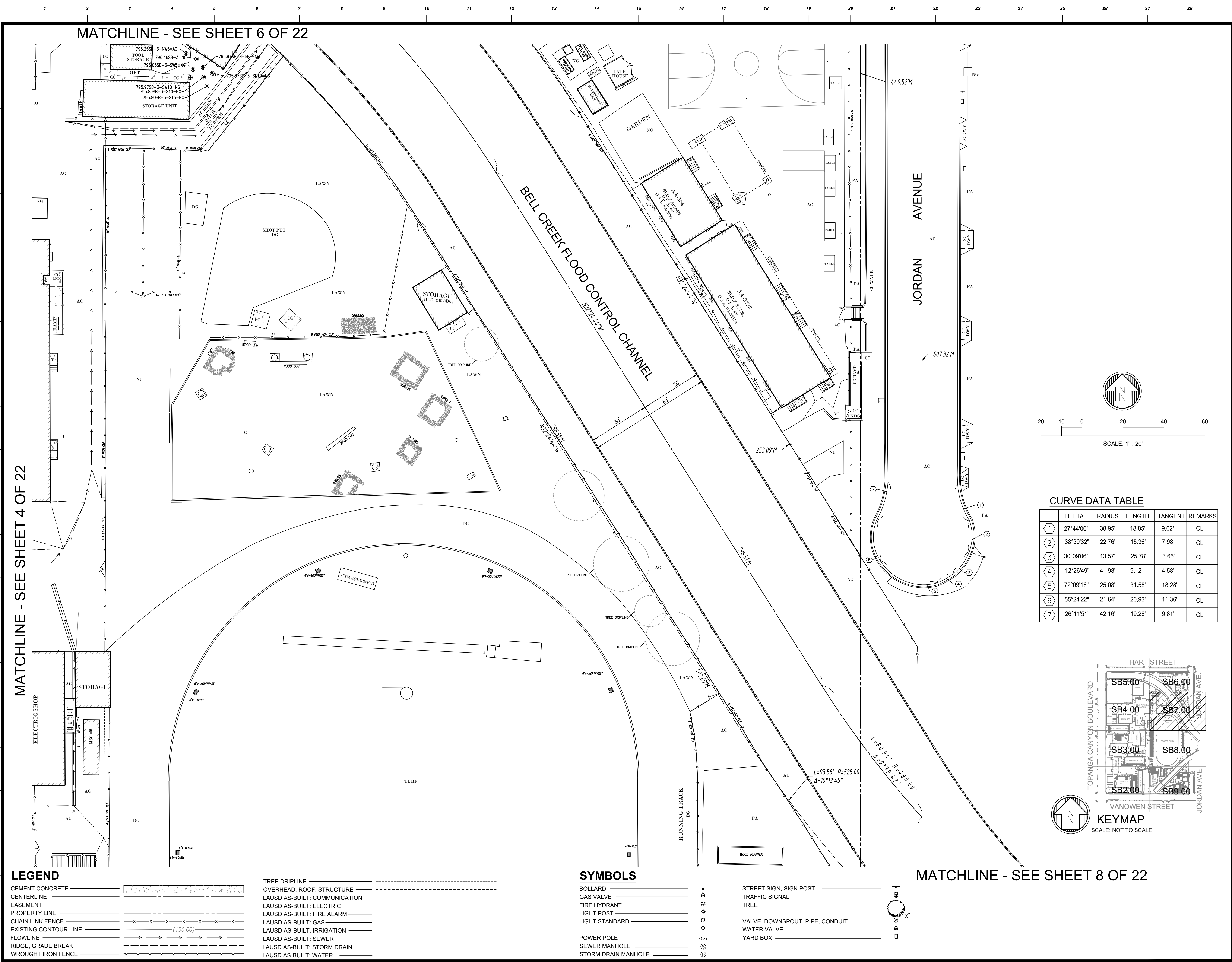
LAUSD AS-BUILT: COMMUNICATION	
LAUSD AS-BUILT: ELECTRIC	
LAUSD AS-BUILT: FIRE ALARM	
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GAS VALVE	
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STREET SIGN, SIGN POST	
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WATER VALVE	
YARD BOX	



KEYMAP
SCALE: NOT TO SCALE





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PROJECT TITLE AND SCHOOL LOCATION

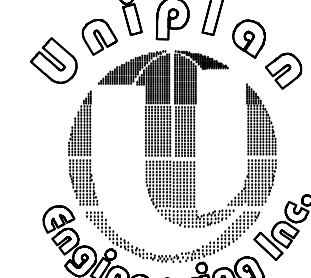
**SOIL BORING
SURVEY**

CANOGA PARK
HIGH SCHOOL


6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT


Civil Engineering Transportation & Traffic Engineering
Stormwater Management Land Planning
Construction Management & Inspection Surveying

STAMPS/SEALS



DIVISION OF THE STATE ARCHITECT

PROJECT NO.: — PROJECT ARCH: —

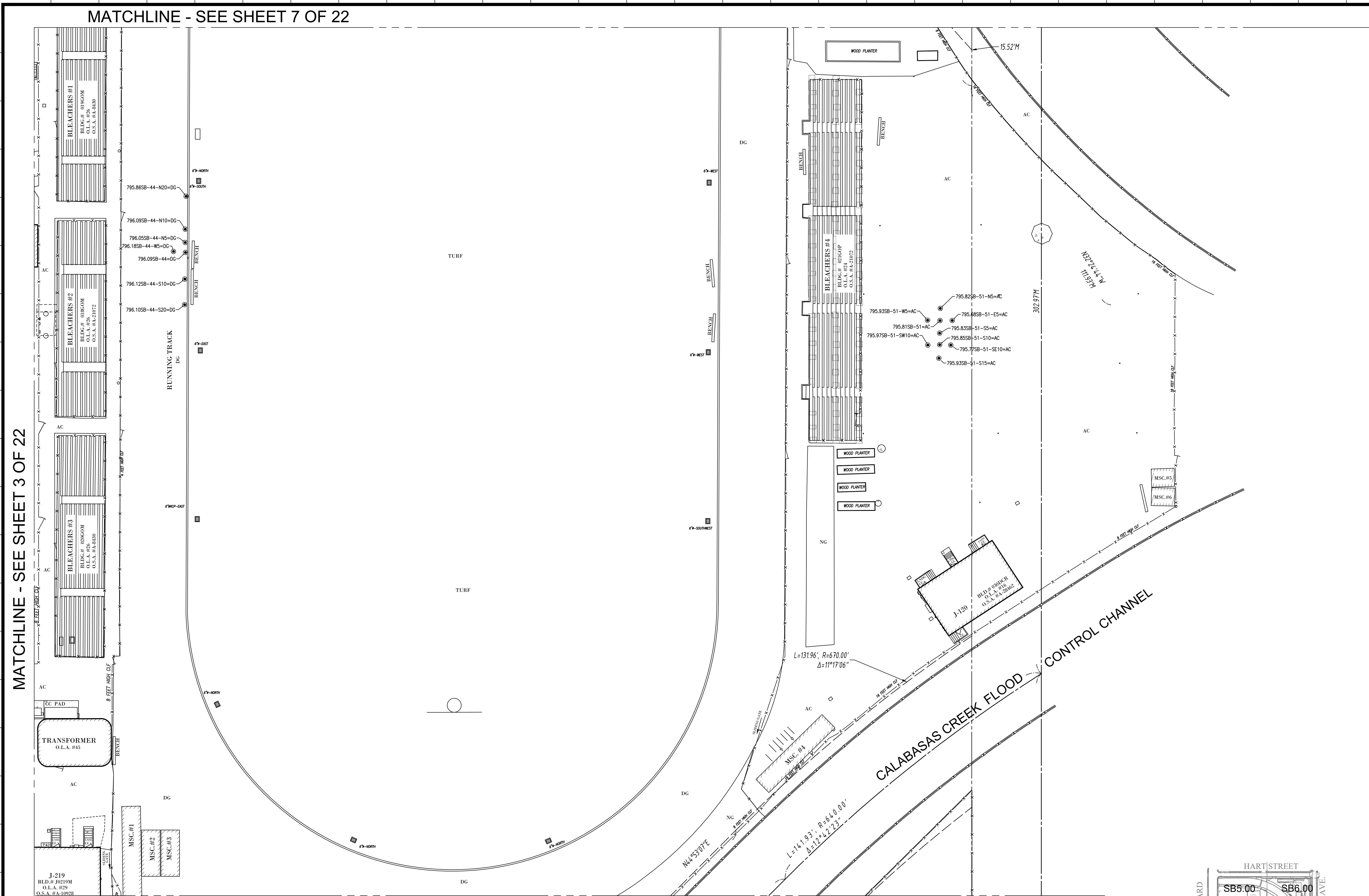
DRAWN: MT CHECKED: A.P.

SHEET NUMBER

SB7.00

DATE: 07/20/23 SHEET: 7 OF: 9

JANUARY 2007 VERSION



MATCHLINE - SEE SHEET 3 OF 22

MATCHLINE - SEE SHEET 9 OF 22

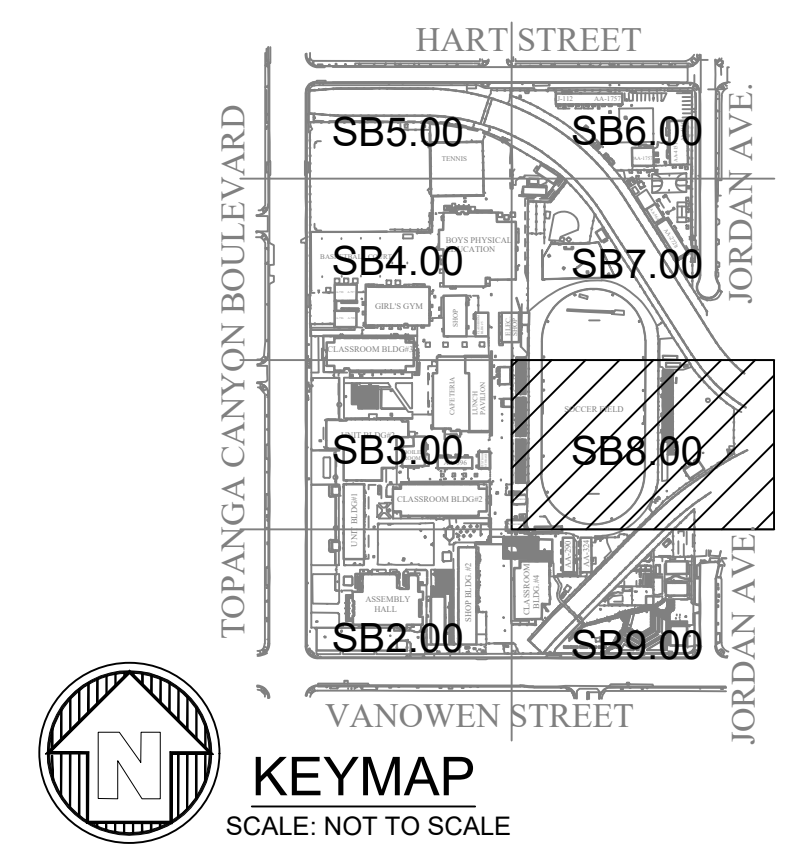
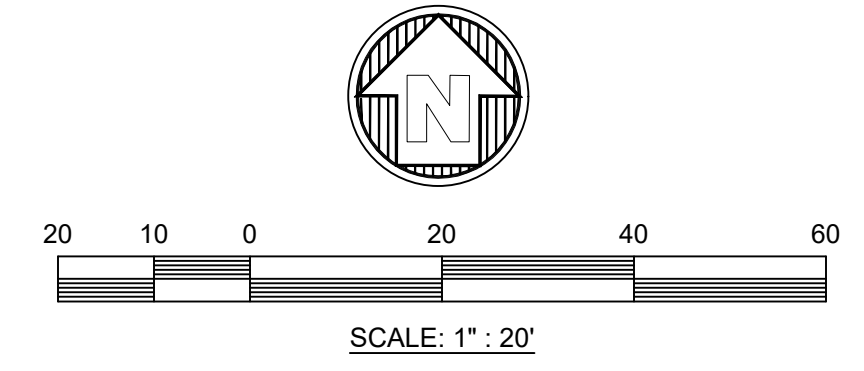
LEGEND

CEMENT CONCRETE	
CENTERLINE	
EASEMENT	
PROPERTY LINE	
CHAIN LINK FENCE	
EXISTING CONTOUR LINE	
FLOWLINE	
RIDGE, GRADE BREAK	
WROUGHT IRON FENCE	
PAINT STRIPING	
TREE DRIPLINE	
OVERHEAD: ROOF, STRUCTURE	

LAUSD AS-BUILT: COMMUNICATION	
LAUSD AS-BUILT: ELECTRIC	
LAUSD AS-BUILT: FIRE ALARM	
LAUSD AS-BUILT: GAS	
LAUSD AS-BUILT: IRRIGATION	
LAUSD AS-BUILT: SEWER	
LAUSD AS-BUILT: STORM DRAIN	
LAUSD AS-BUILT: WATER	

SYMBOLS

BOLLARD	
GAS VALVE	
FIRE HYDRANT	
LIGHT POST	
LIGHT STANDARD	
POWER POLE	
SEWER MANHOLE	
STORM DRAIN MANHOLE	
STREET SIGN, SIGN POST	
TRAFFIC SIGNAL	
TREE	
VALVE, DOWNSPOUT, PIPE, CONDUIT	
WATER VALVE	
YARD BOX	





**LOS ANGELES UNIFIED
SCHOOL DISTRICT**
DESIGN AND A/E
TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

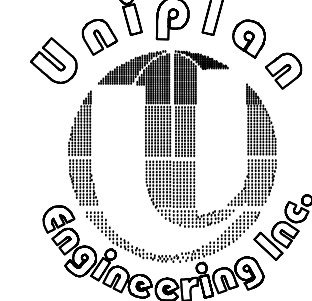
**SOIL BORING
SURVEY**

CANOGA PARK
HIGH SCHOOL

6850 CA-27,
CANOGA PARK, CA 91303


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DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

**SOIL BORING
SURVEY**

PROJECT NO.: —	PROJECT ARCH: —
DRAWN: MT	CHECKED: A.P
SHEET NUMBER	
SB8.00	
DATE: 07/20/23	SHEET: 8 OF: 9

JANUARY 2007 VERSION

MATCHLINE - SEE SHEET 8 OF 22



LOS ANGELES UNIFIED
SCHOOL DISTRICT
DESIGN AND A/E
TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING
SURVEY

CANOGA PARK
HIGH SCHOOL

6850 CA-27,
CANOGA PARK, CA 91303

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Civil Engineering Transportation & Traffic Engineering
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DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING
SURVEY

PROJECT NO.: — PROJECT ARCH: —

DRAWN: MT CHECKED: A.P

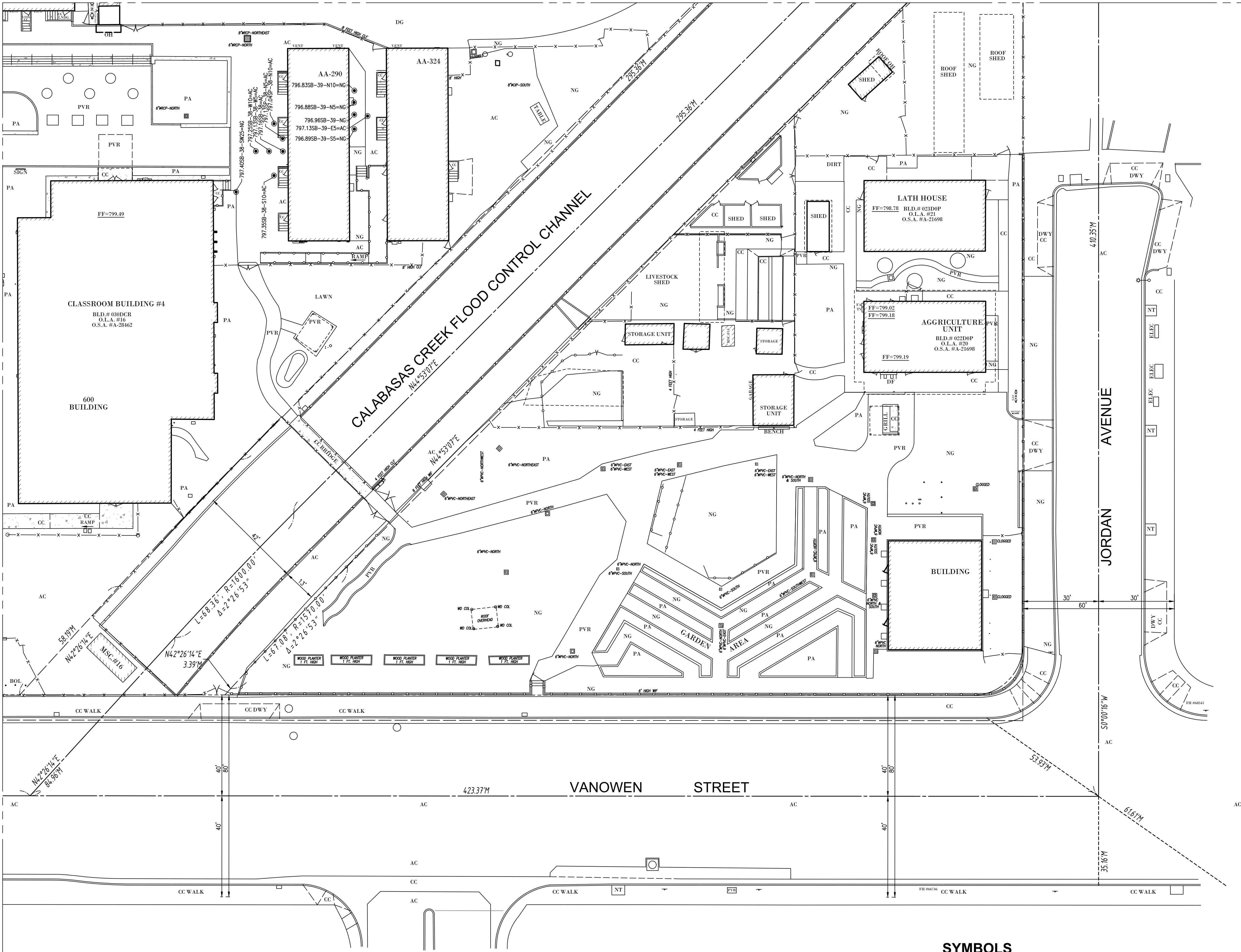
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SB9.00

DATE: 07/20/23 SHEET: 9 OF: 9

'JANUARY 2007 VERSION'

MATCHLINE - SEE SHEET 2 OF 22



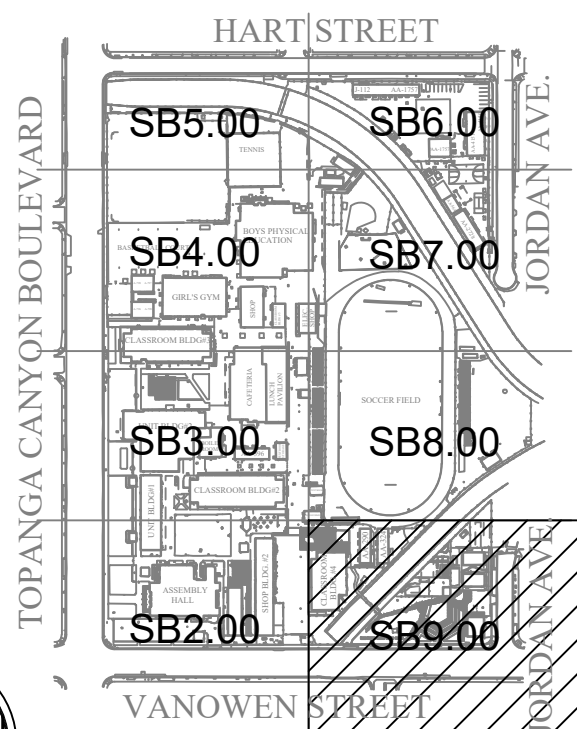
LEGEND

CEMENT CONCRETE	
CENTERLINE	
EASEMENT	
PROPERTY LINE	
CHAIN LINK FENCE	
EXISTING CONTOUR LINE	
FLOWLINE	
RIDGE, GRADE BREAK	
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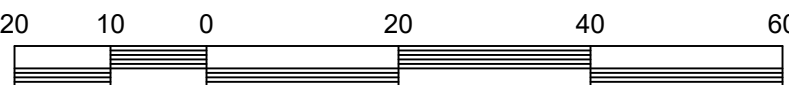
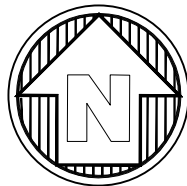
SYMBOLS

GAS VALVE	
FIRE HYDRANT	
LIGHT POST	
LIGHT STANDARD	
POWER POLE	
SEWER MANHOLE	
STORM DRAIN MANHOLE	
STREET SIGN, SIGN POST	
SURVEY WELL MONUMENT	
TRAFFIC SIGNAL	
TREE	
VALVE, DOWNSPOUT, PIPE, CONDUIT	
WATER VALVE	
YARD BOX	



KEYMAP

SCALE: NOT TO SCALE



SCALE: 1" = 20'

APPENDIX B

SCAQMD REQUIREMENTS

(e) Requirements to Minimize Fugitive Dust Emissions

- (3) An owner or operator conducting on-site earth-moving activities shall:
 - (A) Adequately wet to the depth of earth-moving activity and allow time for penetration; and
 - (B) Adequately wet at frequencies to prevent the generation of visible dust plumes.
- (4) An owner or operator that is moving vehicles on, within, or off a site shall:
 - (A) Post signs at all entrances of the site to designate the speed limit as 15 mph;
 - (B) Stabilize the surface of all vehicular traffic and parking areas by applying gravel, paving, chemical stabilizers pursuant to paragraph (e)(13), or dust suppressant;
 - (C) Not allow any track-out outside of the property line that is 25 feet or more in cumulative length. Remove any track-out at a minimum frequency of once each day using a vacuum equipped with a filter(s) rated by the manufacturer to achieve a 99.97 percent control efficiency for 0.3 micron particles;
 - (D) Clean the soil from the exterior of trucks, trailers, and tires prior to the truck leaving the site, without the use of forced air; and
 - (E) Utilize at least one of the following measures at each vehicle egress from the site to a public road:
 - (i) Install a pad consisting of washed gravel (minimum-size: 1 inch), maintained in a clean condition, to a depth of at least 6 inches and extending at least 30 feet wide and at least 50 feet long;
 - (ii) Pave the surface extending at least 100 feet from the property line and at least 30 feet wide;
 - (iii) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipes, or grates) at least 24 feet long and 30 feet wide; or
 - (iv) Install and utilize a wheel washing system to remove soil from tires and vehicle undercarriages.
- (5) An owner or operator conducting on-site earth-moving activities shall ensure that stockpiles with any soil with applicable toxic air contaminant(s) be:
 - (A) Segregated from non-contaminated stockpiles;
 - (B) Labelled with "South Coast AQMD Rule 1466 – Control of Particulate Emissions from Soils with Toxic Air Contaminant(s) Applicable Soil";
 - (C) Maintained to avoid steep sides or faces that exceed the angle of repose;
 - (D) No more than 400 cubic yards of soil;
 - (E) Maintained to minimize fugitive dust emissions containing toxic air contaminants by applying chemical stabilizers pursuant to paragraph (e)(13), applying dust suppressant, or completely covering pursuant to paragraph (e)(14); and

- (F) Either chemically stabilized pursuant to paragraph (e)(13) and/or completely covered pursuant to paragraph (e)(14) at all times when earthmoving activities and ambient PM10 monitoring are not occurring.
- (6) An owner or operator conducting truck and trailer loading activities of soil containing applicable toxic air contaminant(s) shall:
 - (A) Apply dust suppressant to material prior to loading;
 - (B) Empty the loader bucket slowly so that no visible dust plumes are generated
 - (C) Minimize the drop height from the loader bucket;
 - (D) Maintain at least 6 inches of space between the soil and the top of the truck bed and trailer while transporting within a site; and
 - (E) Completely cover the truck bed and trailer prior to leaving the site.
- (7) An owner or operator conducting truck and trailer unloading activities of soil containing applicable toxic air contaminant(s) shall:
 - (A) Apply dust suppressant to material prior to unloading; and
 - (B) Empty the trailer slowly so that no visible dust plumes are generated.
- (8) The owner or operator shall immediately remove any spilled soil.
- (9) The owner or operator shall cease on-site earth-moving activities if the wind speed is greater than 15 mph averaged over a 15-minute period or the instantaneous wind speed exceeds 25 mph.
- (13) When utilizing a chemical stabilizer, an owner or operator shall:
 - (A) Ensure the chemical stabilizer meets any specifications, criteria, or tests required by any federal, state, or local agency or any applicable law, rule, or regulation; and
 - (B) Unless otherwise indicated, use a sufficient concentration of the chemical stabilizer and an application frequency sufficient to maintain a stabilized surface and no less than what is specified by the manufacturer for the period of inactivity
- (14) When using a cover for stockpiles, an owner or operator shall ensure the cover:
 - (A) Is at least 10 mil thick plastic sheeting that overlaps a minimum of 24 inches; and
 - (B) Is anchored and secured so that no portion of the soil is exposed to the atmosphere.
- (15) An owner or operator that is conducting earth-moving activities of soil with applicable toxic air contaminant(s) at a school, joint use agreement property, adjacent athletic area, or at a site that is adjoining a school, joint use agreement property, or adjacent athletic area shall:
 - (A) Only conduct earth-moving activities at a school or at a site that is adjoining a school outside of the hours between 7:30 a.m. and 4:30 p.m. on days when the school is in session;
 - (B) Not conduct earth-moving activities at a school, joint use agreement property, adjacent athletic area, or at a site that is adjoining a school, joint use agreement property, or adjacent athletic area if there is a school sponsored activity or youth organized sports

taking place at that site; (C) Handle excavated soils with applicable toxic air contaminant(s) by:

- (i) Immediately placing soil in a leak-tight container whereby any contained solids or liquids are prevented from escaping or spilling out;
- (ii) Directly loading soil in truck beds, trailers, and bins for transport, applying chemical stabilizer pursuant to paragraph (e)(13) or dust suppressant, and completely covering prior to transporting; or
- (iii) Stockpiling pursuant to paragraph (e)(5), in a fenced area that is not accessible to the general public, and locked when not in use; and
- (iv) Within five days of its excavation, remove all soil with applicable toxic air contaminant(s) from the site.

(f) Notification Requirements

- (1) The owner or operator shall electronically submit an initial notification to the Executive Officer, using a format approved by the Executive Officer, of the intent to conduct any on-site earth-moving activities.

(A) Initial notifications shall be submitted:

- (i) at least 72 hours but no more than 30 days prior to conducting any earth-moving activities on any site meeting the applicability requirements of subdivision (b); or
- (ii) As soon as the information becomes available but no later than 48 hours after the information becomes available that on-site earthmoving activities of soil with applicable toxic air contaminant(s) exceed 50 cubic yards.

(B) Initial notifications shall include the following requirements:

- (i) Name, address, telephone number, and e-mail address of the owner or operator;
- (ii) Name, telephone number, and e-mail address of the on-site dust control supervisor;
- (iii) Project name and, if applicable, the project identification number from the designating agency;
- (iv) Project location (address and/or coordinates);
- (v) Identify whether the site is a school, joint use agreement property, adjacent athletic area, or is adjoining a school, joint use agreement property, or adjacent athletic area;
- (vi) A map indicating the specific location(s) of each on-site earthmoving activity and the concentrations of the applicable toxic air contaminant(s) and location of PM10 monitors;
- (vii) A description of the on-site earth-moving activities, estimated volume of soil with applicable toxic air contaminant(s), and a schedule that includes the anticipated start and completion dates of on-site earth-moving activities;
- (viii) Current and/or previous type of operation(s) and use(s) at the site;

- (ix) Applicable exemption(s); and
 - (x) Whether the notice being provided is a revised notification.
- (2) Notification Updates

Initial notifications pursuant to paragraph (f)(1) shall be updated when any of the following conditions arise:

 - (A) Earlier Start Date

A change in the start date of on-site earth-moving activities to an earlier date shall be reported to the South Coast AQMD no later than 72 hours before any on-site earth-moving activities begin.
 - (B) Later Start Date

A delay in the start date of on-site earth-moving activities shall be reported to the South Coast AQMD as soon as the information becomes available, but no later than the original start date.
 - (C) Change in Exemption Status

Any change(s) in exemption status pursuant to subdivision (k) shall be reported to the South Coast AQMD as soon as the information becomes available, but no later than 48 hours after the information becomes available.
 - (D) Completion Date

The completion date of on-site earth-moving activities shall be reported to the South Coast AQMD no later than 48 hours after on-site earth-moving activities are completed.
- (3) Within 72 hours of an exceedance of the PM₁₀ emission limit specified in paragraph (d)(2), the owner or operator shall electronically submit a notification to the Executive Officer, using a format approved by the Executive Officer, of the exceedance and shall include the following information:
 - (A) Name, address, telephone number, and e-mail address of the owner or operator;
 - (B) Name, telephone number, and e-mail address of the on-site dust control supervisor;
 - (C) Project name and, if applicable, the project identification number from the designating agency;
 - (D) Project location (address and/or coordinates);
 - (E) PM₁₀ monitoring results and wind direction and speed results pursuant to subdivision (d), including location of monitors, result, date and time of exceedance(s), 12 hours before first exceedance, and 12 hours after last exceedance;
 - (F) On-site earth-moving activities occurring at the date and time of exceedance(s); and
 - (G) Dust control measure(s) taken to mitigate fugitive dust
- (h) Recordkeeping Requirements

The owner or operator shall maintain records for a period of not less than 3 years and shall make such records available to the Executive Officer upon request. At a minimum, records shall be maintained daily and shall include:

SCAQMD Requirements
LAUSD - Canoga Park High School

- (1) Inspections of all stabilized or covered stockpiles containing soils with applicable toxic air contaminant(s) and all re-stabilization, cover repair, and label maintenance activities, including dates and times the specific activities were conducted;
 - (2) Results of wind and PM10 monitoring, including: ambient PM10 data; rolling average PM10 concentrations and calculations; wind direction and speed corresponding to the rolling average PM10 concentrations; movement of monitoring instruments corresponding to wind direction changes; instrument make and model; settings; proof of valid calibration in accordance with manufacturer's recommended schedule; configuration; calibration, correction, and correlation factors; maintenance; operator training; daily instrument performance check records and manual zero or auto-check results; weekly zero calibration records and intra-instrument precision test data and calculation results; and all instrument logs for all monitoring instruments;
 - (3) All instrument maintenance activities, including: zero calibration, cleaning, filter replacement, and performance checks, including dates and times of the specific procedures;
 - (4) Documentation of all DAS and data management system failures, including date and time of the failure, date and time of the correction, the technical issue(s) causing the failure, and activities performed to restore the failed DAS or data management system to working condition;
 - (5) On-site earth-moving activities conducted and the corresponding volume of soil with applicable toxic air contaminant(s);
 - (6) Names and business addresses of the transporting and receiving facilities, and a copy of the shipping manifest;
 - (7) Complaints called in, including the name of complainant and contact information, date and time, on-site earth-moving activities occurring at the date and time, complaint, and action taken to mitigate the source of the complaint; and
 - (8) A copy of all submitted notifications for the project.
- (i) Executive Officer Designated Sites
- (1) The Executive Officer may designate a site if the Executive Officer has evidence that the site contains soil with applicable toxic air contaminant(s) as defined in paragraph (c)(16), after consultation with U.S. EPA, DTSC, the State Water Resources Control Board, the Regional Water Quality Control Board, and/or local, county, or state regulatory agencies, and consideration of the following:
 - (A) Site history, including current and/or previous type(s) of operation(s) and use(s) at the site and regulatory history;
 - (B) Concentration(s) of applicable toxic air contaminant(s) in the soil;
 - (C) Background concentration(s) of applicable toxic air contaminant(s);
 - (D) Volume of soil with applicable toxic air contaminant(s);
 - (E) Distance to a residence, park, school, joint use agreement property, adjacent athletic area, or a site adjoining a school, joint use agreement property, or adjacent athletic area;
 - (F) Meteorological data;

- (G) Health risk information or other data provided by the owner or operator, if available; and
 - (H) Ambient monitoring data and other applicable data, if available.
- (2) Prior to making a determination, the Executive Officer will notify the owner or operator in writing that the site may be subject to this rule.
- (A) In the event the owner or operator exercises this opportunity to demonstrate that this rule does not apply, the owner or operator shall submit information to the Executive Officer within 14 days of the notification substantiating why the site should be excluded from this rule.
 - (B) Upon final determination, the Executive Officer will notify the owner or operator in writing if the site is subject to this rule.
- (3) During the determination period, the owner or operator shall comply with the provisions of this rule or cease all on-site earth-moving activities until a determination is made.