

**CODE COMPLIANCE**

**PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023**

ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

ALL IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R. (2021 INTERNATIONAL BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA ELECTRIC CODE (CEC), PART 3, TITLE 24, C.C.R. (2020 NATIONAL ELECTRIC CODE AND 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R. (2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R. (2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA ENERGY CODE (CENC), PART 6, TITLE 24, C.C.R.
- 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R. (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
- 2022 TITLE 19, C.C.R., REGULATIONS OF THE STATE FIRE MARSHAL
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24, C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.

**FIRE SAFETY INFORMATION**

Project will comply with 2022 California Fire Code

GENERAL CONTRACTOR AND SUBCONTRACTORS TO COMPLY WITH CFC CHAPTER 33 FOR SAFEGUARDS DURING CONSTRUCTION:

- Smoking shall be prohibited except in designated areas with approved ashtrays. All other areas must have "No Smoking" signage posted around construction areas in accordance with CFC§310. [CFC§3304.1]
- Combustible debris shall not be allowed to accumulate within building. Combustible debris, rubbish and waste material shall be removed from building at the end of each shift of work. [CFC §3304.2]
- Materials susceptible to spontaneous ignition, such as oily rags, shall be stored in a listed disposal container. [CFC §3304.2.4]
- Operations involving the use of cutting and welding shall be done in accordance with Chapter 35. [CFC §3304.6]
- During construction, the construction site or area must be thoroughly cleaned at the end of each work day in order to provide firefighter access in the building in an event of a fire.

- SEE ADDITIONAL FIRE SAFETY INFORMATION AND WORK PLAN ON SHEET A1.01

**DEFERRED SUBMITTALS**

- Fire Department Operation Permit

**PROJECT SUMMARY**

THE PROJECT SCOPE INCLUDES THE INSTALLATION OF A NEW, 10,000-GALLON ABOVE-GROUND, DOUBLE-WALLED BIODIESEL STORAGE TANK WITH ASSOCIATED DISPENSERS, PIPING, CONCRETE SLAB, ASPHALT REPAIR AT NEW WORK, AND ELECTRICAL WORK AT THE CITY OF BERKELEY TRANSFER STATION LOCATED AT 1201 SECOND STREET IN BERKELEY, CALIFORNIA.

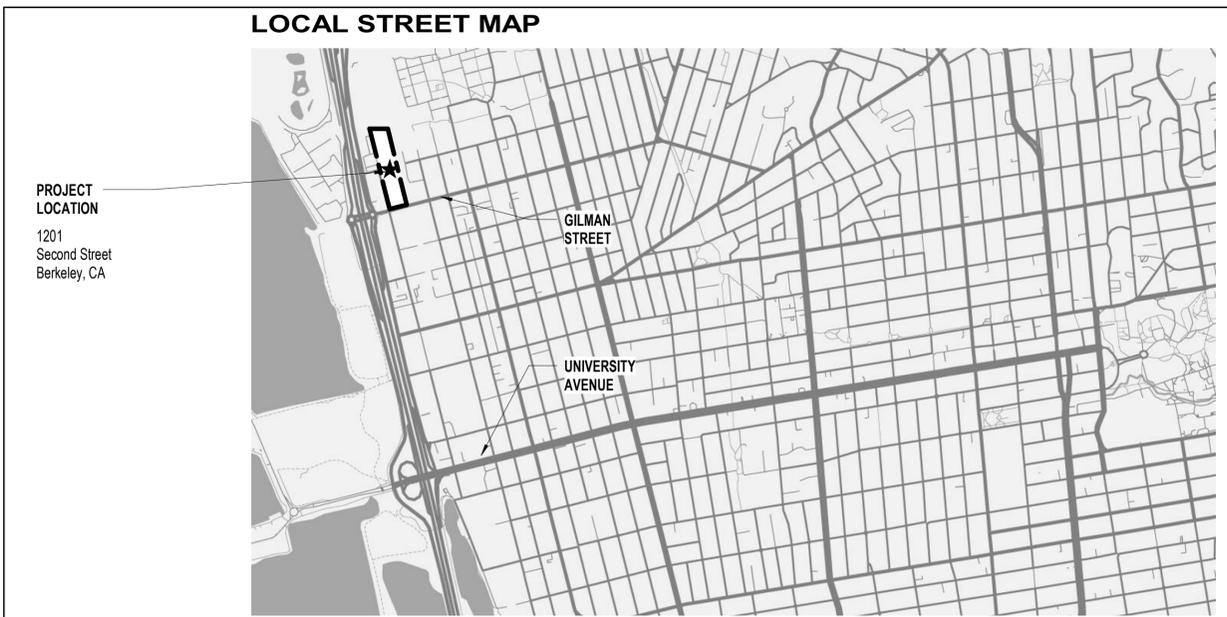
CONTRACTOR WILL BE RESPONSIBLE FOR PREPPING ALL AREAS FOR NEW SCOPE OF WORK INCLUDING PATCHING AND REPAIRING EXISTING CONDITIONS WHERE AFFECTED BY ANY AND ALL DEMOLITION WORK.

THE WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, SERVICES, PERMITS, TEMPORARY CONTROLS AND CONSTRUCTION FACILITIES, AND ALL GENERAL CONDITIONS, SEISMIC REQUIREMENTS, GENERAL REQUIREMENTS AND INCIDENTALS REQUIRED TO COMPLETE THE WORK ON THE PROJECT IN ITS ENTIRETY AS DESCRIBED IN THE CONTRACT DOCUMENTS.

# Installation of Above Ground Storage Tank

## 1201 Second Street Berkeley, CA 94710 Bid Set - 03/02/2026 City of Berkeley

**LOCAL STREET MAP**



**PROJECT LOCATION**



**Cost Estimator**

**Micro Estimating, Inc.**  
850 South Van Ness Ave.  
San Francisco CA 94110  
Tel: (925) 989-5556

**MEP**

**EDesignC Inc.**  
582 Market Street Suite 400  
San Francisco CA 94104  
Tel: (415) 963-4303

**Structural**

**IDA Structural Engineers Inc.**  
1629 Telegraph Avenue  
Suite 300  
Oakland CA 94612-2114  
Tel: (510) 834-1629

**Architect**

**Noll & Tam Architects**  
729 Heinz Ave  
Berkeley, CA 94710  
Tel: 510.542.2200  
Fax: 510.542.2201

**Owner**

**City of Berkeley**  
1326 Allston Way  
Tel: 510.981.6629

**NOLL & TAM**  
ARCHITECTS

729 Heinz Avenue  
Berkeley, CA 94710  
tel 510.542.2200  
fax 510.542.2201

SEAL



Date signed: 06/06/2025

APPROVALS

PROJECT TITLE

**Installation of  
Above Ground  
Storage Tank**

1201 Second Street  
Berkeley, CA 94710

**Bid Set**

ISSUE DATE 03/02/2026

N&T JOB NUMBER 22507

REVISIONS	DATE	DESCRIPTION
△	03/02/2026	POST PERMIT REVISIONS

SHEET TITLE

**COVER SHEET**

SHEET NUMBER

**G0.00**



FIRETECH FGC10 FIBERGLASS FIRE EXTINGUISHER CABINET  
 DIMENSIONS = 26 1/8" X 13 1/4" X 9 3/4" DEEP  
 WITH 10 LB ABC DRY CHEMICAL EXTINGUISHER  
 MOUNTNG HEIGHT TO HANDLE = 48" MAX

4  
G0.01 FIRE EXTINGUISHER  
3" = 1'-0"

**GENERAL NOTES**

1. WORK SHALL MEET OR EXCEED THE MINIMUM STANDARDS OF APPLICABLE CODES AND ORDINANCES AND SHALL NOT BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THOSE CODES.
2. CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PROJECT SPECIFICATIONS.
3. VERIFY ALL DIMENSIONS AND INSPECT CONDITION OF IN-PLACE CONSTRUCTION BEFORE STARTING WORK. PROCEEDING WITH THE WORK SHALL CONSTITUTE ACCEPTANCE OF CONDITIONS.
4. CONTRACTOR SHALL EXAMINE THE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.
5. THE CONTRACTOR AND ALL SUBCONTRACTORS ARE REQUIRED TO VISIT AND INSPECT THE SITE PRIOR TO CONSTRUCTION OR ORDERING ANY MATERIALS.
6. ITEMS MARKED "NIC" ARE NOT IN CONTRACT. SUCH ITEMS ARE INCLUDED IN THE DOCUMENTS WHEN CONTRACTOR'S COORDINATION IS REQUIRED OR FOR CLARIFICATION OF PROJECT LIMITS.
7. DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL SIMILAR CASES, UON.
8. DIMENSIONS
  - a. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM THE DRAWINGS.
  - b. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO PROCEEDING WITH CONSTRUCTION.
  - c. ELEVATION MARKERS REFER TO THE TOP OF THE SLAB ON GRADE DATUM.
  - d. ALL DIMENSIONS NOTED "CLEAR" OR "CLR" INDICATE DIMENSION FROM FACE OF FINISH TO FACE OF FINISH OR OBJECT, UON AND MUST BE STRICTLY MAINTAINED.
  - e. ALL DIMENSIONS NOTED "VERIFY" OR "VIF" ARE TO BE CHECKED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY VARIANCE FROM THE REQUIRED DIMENSIONS MUST BE BROUGHT IMMEDIATELY TO THE ARCHITECT'S ATTENTION.
  - f. COORDINATE WITH EQUIPMENT CONTRACTORS FOR ROUGH-IN DIMENSIONS AND TEMPLATES.
9. EXISTING SITE DOCUMENTATION IS BASED ON CASUAL SITE OBSERVATION INVESTIGATIONS. AS BUILT CONDITIONS MAY VARY. CONTRACTOR IS TO USE CAUTION IN DEMOLITION AND IS TO NOTIFY THE CITY OF BERKELEY, THE STRUCTURAL ENGINEER, AND THE ARCHITECT IMMEDIATELY IF ANY VARIATIONS OR DISCREPANCIES ARE UNCOVERED.
10. CONTRACTOR TO MAINTAIN SAFE & COMPLIANT EGRESS FROM OCCUPIED AREAS TO THE PUBLIC WAY OR TO SAFE DISPERSAL AREAS DURING CONSTRUCTION ACTIVITIES.
11. PROTECT EXISTING CONDITIONS TO REMAIN. CONFIRM W/ ARCHITECT AND/OR OWNER'S REPRESENTATIVE ITEMS TO BE SALVAGED PRIOR TO START OF DEMOLITION.
12. PROTECT ALL (E) BUILDING & SITE INFRASTRUCTURE TO REMAIN.
13. THE DRAWINGS INDICATE THE GENERAL EXTENT OF CONSTRUCTION NECESSARY FOR THE WORK BUT ARE NOT INTENDED TO BE ALL-INCLUSIVE. ALL DEMO AND NEW WORK NECESSARY FOR A COMPLETED PROJECT IN ACCORDANCE W/ THE CONTRACT DOCUMENTS SHALL BE INCLUDED REGARDLESS OF WHETHER OR NOT SHOWN IN THE CONTRACT DOCUMENTS. THE INTEGRITY AND CONTINUITY OF ALL EXISTING FIRE AND OTHER TRANSFER STATION ASSEMBLIES IS TO BE STRICTLY MAINTAINED. SELECTIVE REMOVAL, REPLACEMENT, PATCHING & REPAIR SHALL BE PROVIDED TO MAINTAIN INTEGRITY OF EXISTING ASSEMBLIES AND FINISHES TO MATCH EXISTING ADJACENT ASSEMBLIES AND FINISHES.
14. PROVIDE TEMPORARY BARRIERS FOR SAFETY, SECURITY & CLEANLINESS

**SHEET INDEX**

GENERAL  
 G0.00 COVER SHEET  
 G0.01 GENERAL NOTES / SHEET INDEX  
 G1.31 CODE OCCUPANCY & EXIT PLANS  
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ARCHITECTURE  
 A1.01 SITE DEMOLITION / REMOVAL PLAN  
 1

STRUCTURAL  
 S1.00 GENERAL NOTES AND SITE MAP  
 S2.01 STRUCTURAL PLANS  
 S5.01 TYPICAL CONCRETE DETAILS  
 3

PLUMBING  
 P0.00 PLUMBING COVER SHEET  
 P0.01 PLUMBING SCHEDULE  
 P2.00 PLUMBING DEMOLITION SITE PLAN  
 P2.10 PLUMBING PROPOSED SITE PLAN  
 4

ELECTRICAL  
 E0.00 ELECTRICAL COVER SHEET  
 E0.10 ELECTRICAL PROPOSED PLAN  
 2

TOTAL SHEETS: 13



Date signed: 06/06/2025

APPROVALS

PROJECT TITLE

**Installation of  
Above Ground  
Storage Tanks**

1201 Second Street  
Berkeley, CA 94710

**Bid Set**

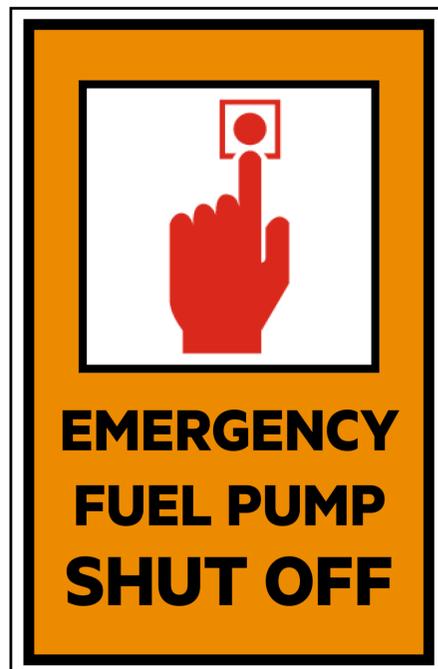
ISSUE DATE 06/13/2025  
 N&T JOB NUMBER 22507

REVISIONS	DATE	DESCRIPTION
△	03/02/2026	POST PERMIT REVISIONS

SHEET TITLE  
**GENERAL NOTES / SHEET INDEX**

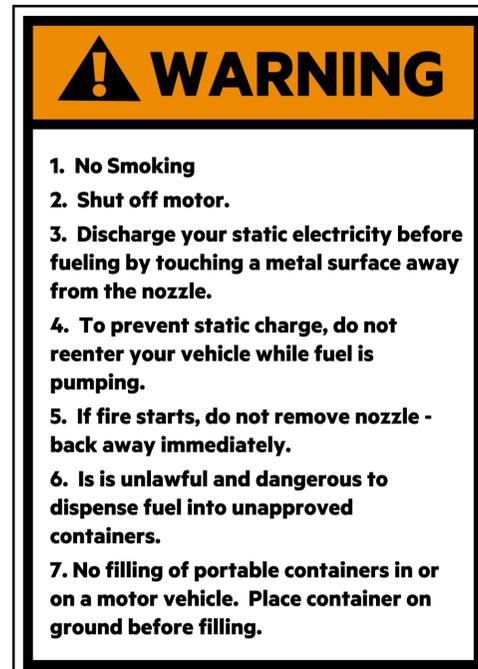
SHEET NUMBER

**G0.01**



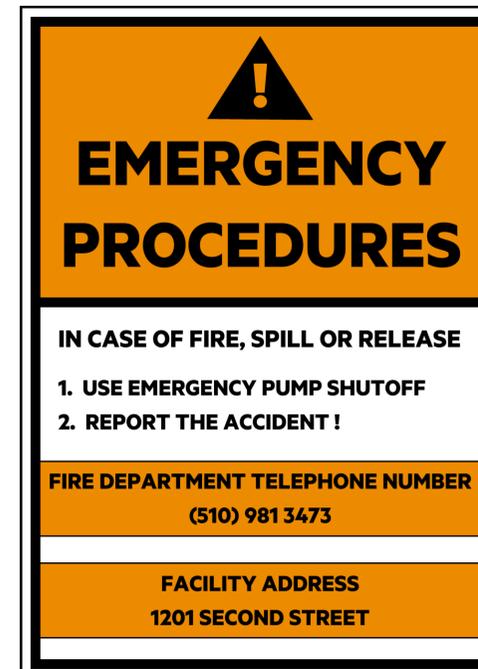
SIGN DIMENSIONS = 18" BY 24"  
 MATERIAL = RUST FREE ALUMINUM  
 THICKNESS = .040"

3  
G0.01 EMERGENCY SHUT OFF SIGN  
3" = 1'-0"



SIGN DIMENSIONS = 18" BY 24"  
 MATERIAL = RUST FREE ALUMINUM  
 THICKNESS = .040"

2  
G0.01 FUEL DISPENSING SIGN PER CFC 2305.6  
3" = 1'-0"



SIGN DIMENSIONS = 18" BY 24"  
 MATERIAL = RUST FREE ALUMINUM  
 THICKNESS = .040"

1  
G0.01 EMERGENCY PROCEDURES SIGN PER CFC 2304.3.5  
3" = 1'-0"



Date signed: 06/06/2025

SEAL

APPROVALS

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ISSUE DATE 06/13/2025

N&T JOB NUMBER 22507

REVISIONS	DATE	DESCRIPTION
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SHEET TITLE  
**CODE OCCUPANCY &  
EXIT PLANS - SITE PLAN**

SHEET NUMBER

**G1.31**

**SEE 1/S2.01 FOR NEW SITE  
PLAN INFORMATION**

**ACCESSIBLE PATH OF TRAVEL**

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A CONTINUOUS, BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX SLOPE, OR VERTICAL CHANGES NOT EXCEEDING 1/4" MAX AND AT LEAST 44" WIDE PER CBC SECTION 11B-403.5.1. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 1:20 UNLESS OTHERWISE INDICATED.

CONTRACTOR SHALL VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC.

NOTE THAT NO PUBLIC PEDESTRIAN ACCESS ALLOWED IN THE AREA OF NEW WORK



SEE 1/A1.01 FOR DEMOLITION SITE PLAN AND 2/G1.31 FOR ENLARGED SITE PLAN

TRANSFER STATION OFFICE

VEHICLE ACCESS AND EGRESS, NO PUBLIC PEDESTRIAN ACCESS ALLOWED IN TRANSFER STATION AREA

ACCESSIBLE PATH OF TRAVEL TO AREA OF NEW WORK

EXISTING VAN ACCESSIBLE PARKING SPACE

RECYCLE CENTER OFFICE

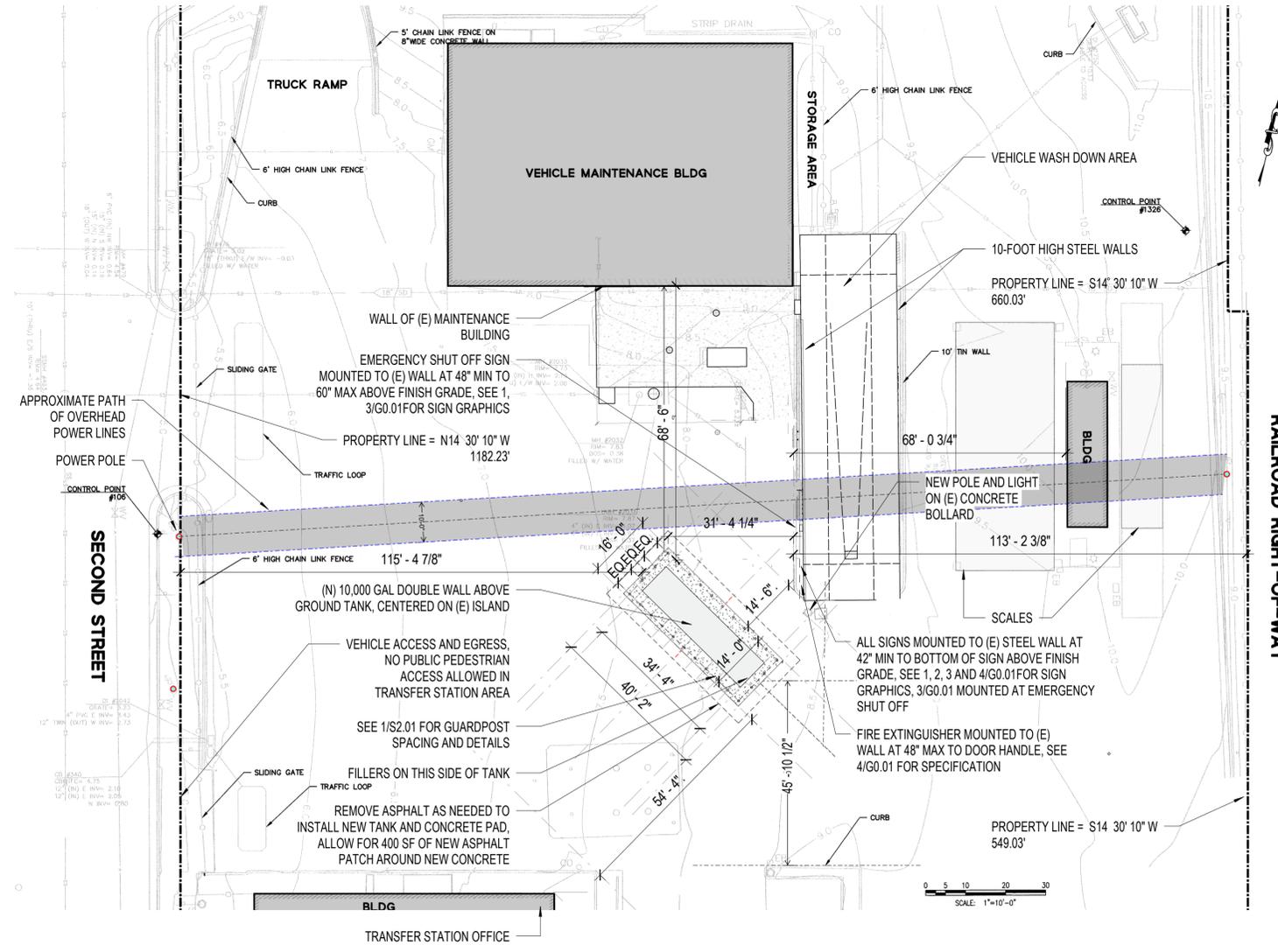
TRUCK ENTRY ONLY

VEHICLE ENTRY RECYCLE CENTER

PAPER SORTING AND BAILING BUILDING

**AC PAVEMENT, IMPORT/BACKFILL, & SOIL COMPACTION**

1. Import Class II AB material to provide a stable 10" base to pave with 6" asphalt, asphalt shall conform to the requirements of Section 39 of the latest edition of CalTrans standard specification.
2. Aggregate base shall have an R-Value of at least 78 and conform to the requirements of Section 26-1.02A of the latest edition of CalTrans standard specifications.
3. Moisture condition, place, and compact Class II AB material to 95% compaction
4. The upper 8" of parking lot subgrade shall be compacted to at least 95% relative compaction, per geotechnical recommendations.
5. Any fill required below the upper 8" of subgrade shall be scarified and compacted to at least 90%, per geotechnical recommendations



**2 ENLARGED SITE PLAN**  
G1.31 1" = 20'-0"

**1 SITE ACCESSIBILITY PLAN**  
G1.31 1/64" = 1'-0"

SEAL



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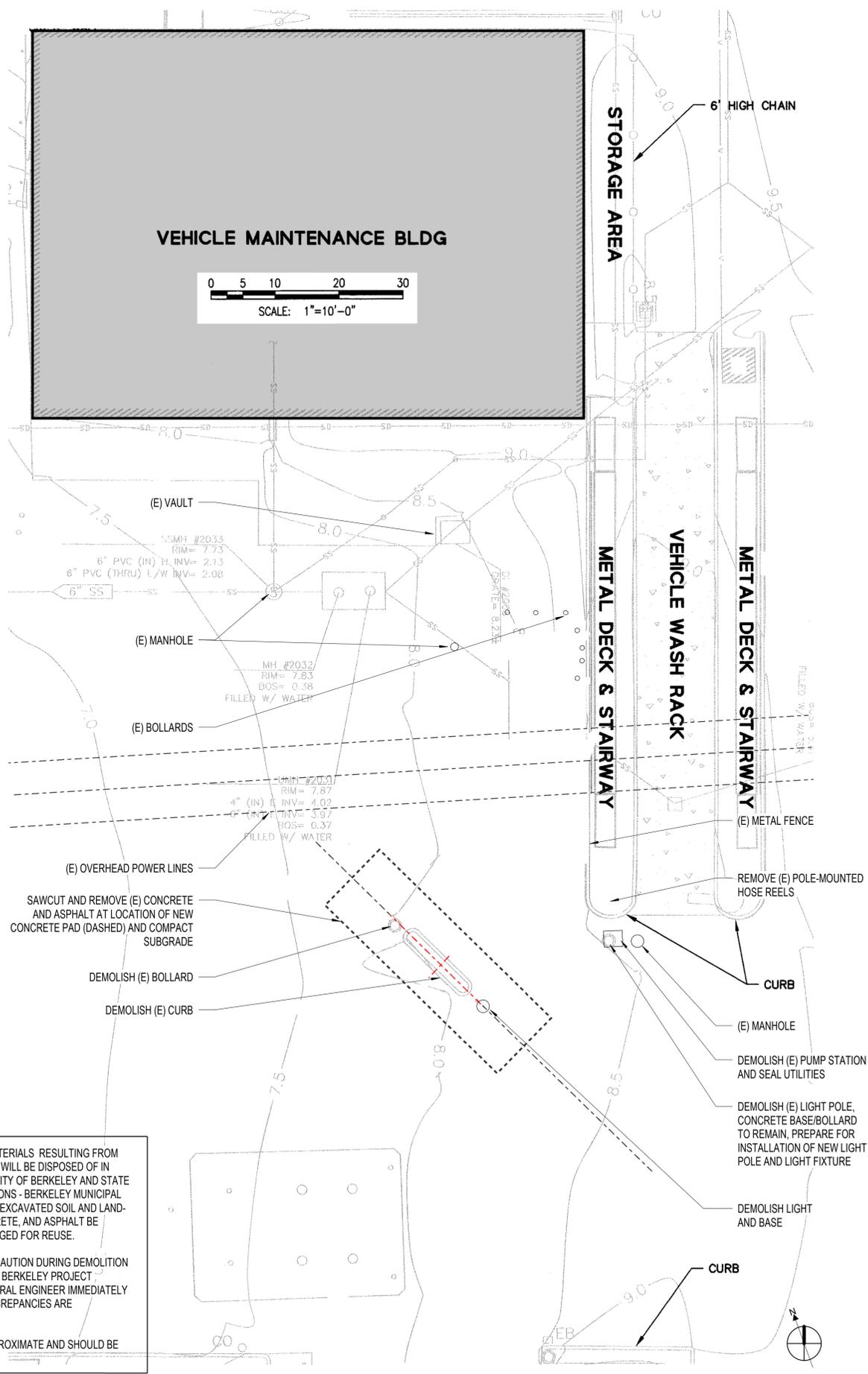
REVISIONS	DATE	DESCRIPTION
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SHEET TITLE

**SITE DEMOLITION /  
REMOVAL PLAN**

SHEET NUMBER

**A1.01**



ALL SOILS AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS WILL BE DISPOSED OF IN ACCORDANCE WITH THE CITY OF BERKELEY AND STATE OF CALIFORNIA REGULATIONS - BERKELEY MUNICIPAL CODE REQUIRES 100% OF EXCAVATED SOIL AND LAND-CLEARING DEBRIS, CONCRETE, AND ASPHALT BE RECYCLED AND/OR SALVAGED FOR REUSE.

CONTRACTOR IS TO USE CAUTION DURING DEMOLITION AND IS TO NOTIFY CITY OF BERKELEY PROJECT MANAGERS AND STRUCTURAL ENGINEER IMMEDIATELY IF ANY VARIATION OR DISCREPANCIES ARE UNCOVERED.

ALL DIMENSIONS ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.

**1 DEMOLITION SITE PLAN**  
A1.01 3/32" = 1'-0"



# STRUCTURAL ENGINEERS

1629 Telegraph Ave  
Suite 300  
Oakland, CA 94612  
tel: 510.834.1629

ida-se.com



Signed on 06-13-2025

#	DESCRIPTION	DATE
1	POST PERMIT REVISIONS	03/02/2026

- GENERAL NOTES**
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE AND THE SPECIFICATIONS.
  - THESE NOTES SHALL APPLY TO ALL STRUCTURAL DRAWINGS UNLESS OTHERWISE NOTED OR SHOWN.
  - ALL WORK IS TO BE ASSUMED AS NEW UNLESS SPECIFICALLY STATED OTHERWISE.
  - FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS. ALL DETAILS REFERENCED AND DETAILS NOT REFERENCED ON PLANS SHALL BE CONSIDERED TYPICAL AND APPLY TO ALL SIMILAR CONDITIONS OF THE CONSTRUCTION.
  - UNLESS SHOWN OTHERWISE, DETAILS SHOWN ON "TYPICAL DETAIL" SHEETS SHALL BE USED WHEREVER APPLICABLE. SPECIFIC DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER "TYPICAL DETAILS". SPECIFIC NOTES ON STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER NOTES SHOWN IN "GENERAL NOTES".
  - THE STRUCTURAL DRAWINGS SHOW STRUCTURAL FEATURES. EXACT CONFIGURATION OF INTERIOR PARTITION WALLS IS SHOWN ON ARCHITECTURAL DRAWINGS AND IS NOT NECESSARILY ALL SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE ANCHORAGE, INSERTS, ANCHOR BOLTS, ETC. FOR STRUCTURAL CONNECTIONS ON TOP, SIDES AND BOTTOM OF ALL PARTITION WALLS AS LOCATED ON THE ARCHITECTURAL DRAWINGS.
  - THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH ELECTRICAL DRAWINGS AS TO ALL LAYOUTS, DIMENSIONS AND ELEVATIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER FOR PROPER ADJUSTMENT BEFORE PROCEEDING WITH THE WORK.
  - IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES (OR SPECIFICATIONS), THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN FOR SIMILAR CONDITIONS.
  - CONCRETE SLABS AND ANY OTHER STRUCTURAL ELEMENTS SHALL NOT BE CUT OR PENETRATED, EXCEPT AS SHOWN IN STRUCTURAL DETAILS OR AS APPROVED BY THE STRUCTURAL ENGINEER. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO POURING CONCRETE. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE WORK.
  - FEATURES OF EXISTING CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD AND DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES AND SEQUENCES OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PROGRAMS AND PROCEDURES DURING CONSTRUCTION.
  - THE CONTRACTOR SHALL FOLLOW ALL INSTRUCTIONS, RECOMMENDATIONS AND SAFETY PRECAUTIONS PROVIDED BY THE MANUFACTURER OR SUPPLIER OF ANY MATERIAL OR PRODUCT NOTED IN GENERAL NOTES OR DRAWINGS.
  - GRADES SHOWN ON STRUCTURAL DRAWINGS ARE APPROXIMATE AND FOR GENERAL REFERENCE ONLY. DO NOT SCALE DRAWINGS.

- DESIGN CRITERIA**
- VERTICAL LOADS:**
    - DEAD LOADS: SLAB DEAD LOAD: 163 PSF
  - LIVE LOADS:**
    - SLAB LIVE LOAD: 100 PSF + TANK
  - WIND DESIGN LOADS - PER CBC SECTION 1609**  
BASIC WIND SPEED: 110 MPH  
EXPOSURE CATEGORY: C
  - SEISMIC DESIGN - PER CBC SECTION 1613**  
RISK CATEGORY: IV  
SEISMIC DESIGN CATEGORY: D  
SITE CLASS: D  
FUNDAMENTAL PERIOD: T = 0.10 SECONDS  
MAPPED SHORT PERIOD ACCELERATION: S<sub>s</sub> = 1.94g  
SITE COEFFICIENT: F<sub>a</sub> = 1.2  
DESIGN SHORT PERIOD ACCELERATION: S<sub>s</sub> = 1.92g  
MAPPED ONE SECOND PERIOD ACCELERATION: S<sub>1</sub> = 0.74g  
SITE COEFFICIENT: F<sub>v</sub> = 1.7  
DESIGN ONE SECOND ACCELERATION: S<sub>1</sub> = 1.287g  
IMPORTANCE FACTOR: I = 1.5  
SEISMIC RESPONSE COEFFICIENT (SDS/IR): C<sub>e</sub> = NA
  - ALLOWABLE SOIL PRESSURES:**
    - DEAD LOAD: 2000 PSF
    - DEAD + LIVE LOADS: 2000 PSF
    - DEAD + LIVE + LATERAL LOADS: 2667 PSF

- FOUNDATION NOTES**
- THE SOIL REPORT APPLICABLE TO THIS PROJECT SITE IS BY NINYO AND MOORE DATED MAY 13, 2024, PROJECT 404651003 AND IS AVAILABLE FOR REVIEW. THE CONTRACTOR SHALL READ THE SOIL REPORT PREPARED FOR THIS PROJECT SITE AND SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK DESCRIBED THEREIN. MAT AND FOOTINGS SHALL BEAR ON COMPACTED SOIL.
  - FOR BIDDING PURPOSES, THE ELEVATION OF THE BOTTOM OF FOOTINGS SHALL BE AS INDICATED ON THE FOUNDATION PLANS AND ON DETAILS. THESE FOOTING DEPTHS ARE MINIMUM AND SHALL IN NO CASE BE LESS THAN 24". SLOPE BOTTOM OF FOOTINGS AT 1:10 MAXIMUM SLOPE AS REQUIRED TO SUIT GRADING AND ADJACENT FOOTING CONDITIONS.
  - SOIL BEARING PRESSURES UNDER FOOTINGS AS DESIGNED DO NOT EXCEED ALLOWABLE SOIL PRESSURES DEFINED IN DESIGN CRITERIA ABOVE.
  - SEE DRAWINGS AND CONSULT WITH THE RESPECTIVE TRADES FOR VERIFICATION OF ALL ITEMS SHOWN OR NOT SHOWN ON PLANS PRIOR TO POURING CONCRETE. FOOTINGS, EXISTING OR NEW PIPES OR ELECTRICAL CONDUITS SHALL NOT ROUTE UNDER FOOTINGS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. WALL CASES, PIPES AND CONDUITS SHALL BE EMBEDDED IN TRENCHES FILLED WITH LEAN CONCRETE AND SPACED A MINIMUM 3" DIAMETERS BETWEEN EACH PIPE OR CONDUIT BASED ON THE LARGEST DIAMETER.
  - VERIFY LOCATIONS FOR OPENINGS OR PENETRATIONS THROUGH CONCRETE, CONCRETE CURBS, FLOOR DEPRESSIONS, FLOOR SLOPES AND DRAINS, INSERTS, ETC.

- CONCRETE NOTES**
- ALL CONCRETE SHALL BE REINFORCED UNLESS NOTED "NOT REINFORCED".
  - SEE THE CALIFORNIA BUILDING CODE AND THE SPECIFICATIONS FOR THE REQUIREMENTS IN THE PRODUCTION, TESTING AND INSTALLATION OF CONCRETE.
  - REINFORCEMENT SHALL BE ASTM A615, GRADE 60 WITH BAR MARKS LEGIBLY ROLLED INTO THE SURFACE INDICATING SIZE, TYPE OF STEEL AND YIELD STRENGTH DESIGNATION.
  - CONCRETE SHALL CONFORM TO THE FOLLOWING CLASSES:

CONCRETE CLASS	USE	28 DAY STRENGTH (PSI)	MAX AGGREGATE SIZE (IN)	CONCRETE WEIGHT (PCF)	MAX W/C (+S) RATIO %	MIN MAX FLYASH OR SLAG %
A	FOUNDATIONS	4000	1	145	0.50	25/50
B	GROUT	4000	SAND	145	0.55	0
C	EXTERIOR PAVING	2500	3/4	145	0.50	25/50
D	LEAN CONCRETE FILL	1000	1	145	0.55	25/50
E	CONTROLLED LOW DENSITY MATERIAL FILL	200	N/A	145	0.55	0

- \*[C+F+S] DENOTES TOTAL WEIGHT OF CEMENT, FLYASH AND SLAG
- PORTLAND CEMENT SHALL BE PROPORTIONED IN ACCORDANCE WITH ASTM C94, TYPE II.
  - REPLACE CEMENT CONTENT WITH FLYASH CONFORMING TO ASTM C618 CLASS C OR F, OR GROUND GRANULATED BLAST FURNACE SLAG CONFORMING TO ASTM 991, CLASS 100 OR 120, PER TABLE ABOVE.
  - REINFORCEMENT, ANCHOR BOLTS, PIPE SLEEVES, AND OTHER INSERTS SHALL BE POSITIVELY SECURED IN PLACE BEFORE CONCRETE IS POURED. "WET SETTING" WILL NOT BE ALLOWED.
  - REINFORCING BARS WELDED TO STRUCTURAL STEEL SHALL BE SUPPLIED BY REINFORCING BAR SUB-CONTRACTOR AND ALL WELDING SHALL BE DONE BY STRUCTURAL STEEL SUB-CONTRACTOR.
  - BAR COVERAGE TO FACE OF BAR, EXCEPT AS OTHERWISE SHOWN, SHALL BE:
    - WHERE CONCRETE IS POURED AGAINST EARTH OR AGAINST GROUND CONTACT.
    - FOR STRUCTURAL SLAB BARS AT TOP.
  - WHERE NEW CONSTRUCTION IS INTEGRATED WITH EXISTING CONCRETE CONSTRUCTION, CARE SHALL BE TAKEN SO AS NOT TO DAMAGE EXISTING REINFORCING CONCRETE AND REINFORCING. WHERE NEW CONCRETE ADJUTS EXISTING CONCRETE, CLEAN EXISTING CONCRETE SURFACES WITH HIGH PRESSURE WATER SPRAY, APPLY APPROVED BONDING AGENT TO SURFACE OF EXISTING CONCRETE.
  - TERMINATION OF REINFORCEMENT:
    - TERMINATE ALL BARS IN LAPS, 90 DEGREE BENDS, OR DOWELS INTO FOOTINGS OR PERPENDICULAR WALLS OR COLUMNS.
    - BEND TOP FOOTING BARS DOWN TO BOTTOM REINFORCING.
    - BEND BOTTOM FOOTING BARS UP WITH STANDARD 90 DEGREE BENDS.
    - END WALLS WITH HORIZONTAL BARS BENT DOWN OR HORIZONTAL OR BENT INTO PERPENDICULAR WALLS, COLUMNS OR CORNERS.
    - PROVIDE DOWELS INTO FOOTINGS FOR WALLS AND COLUMNS OF THE SAME BAR SIZE AND SPACING AS IN WALLS AND COLUMNS.
    - LAP DOWELS PER THE LAP SCHEDULE AT THE BASE OF THE WALL OR COLUMN.
    - ALL REINFORCEMENT SHALL LAP PER THE LAP SCHEDULE.
    - LAP NO MORE THAN EVERY OTHER BAR AT A SINGLE LOCATION (50% BARS), STAGGER LAPS 5'-0". REINFORCEMENT LAPS MAY BE MADE WITH MECHANICAL COUPLERS, TYPE 1, WHICH CAN ACHIEVE 125% OF BAR STRENGTH OR GREATER.
    - SUBMIT ICC EVALUATION REPORT TO STRUCTURAL ENGINEER FOR REVIEW.
    - ROUGHEN SURFACES AND KEY JOINTS AT HARDENED CONCRETE. ROUGHEN ALL SURFACES AT COLD JOINTS TO 1/4" MIN AMPLITUDE UNLESS NOTED OTHERWISE IN DETAILS.
      - PROVIDE 1.5" X 3.5" KEY JOINTS AT BOTTOM OF WALLS AND AT ENDS OF WALLS AT COLUMNS, CROSS WALLS OR CORNERS.
      - PROVIDE 1.5" X 3.5" X 10" KEY JOINTS AT GRADE BEAMS.
      - ROUGHEN SURFACES AT TOPS OF FOOTINGS BELOW WALLS AND COLUMNS.
      - ROUGHEN SURFACES AT TOPS OF ALL WALLS.

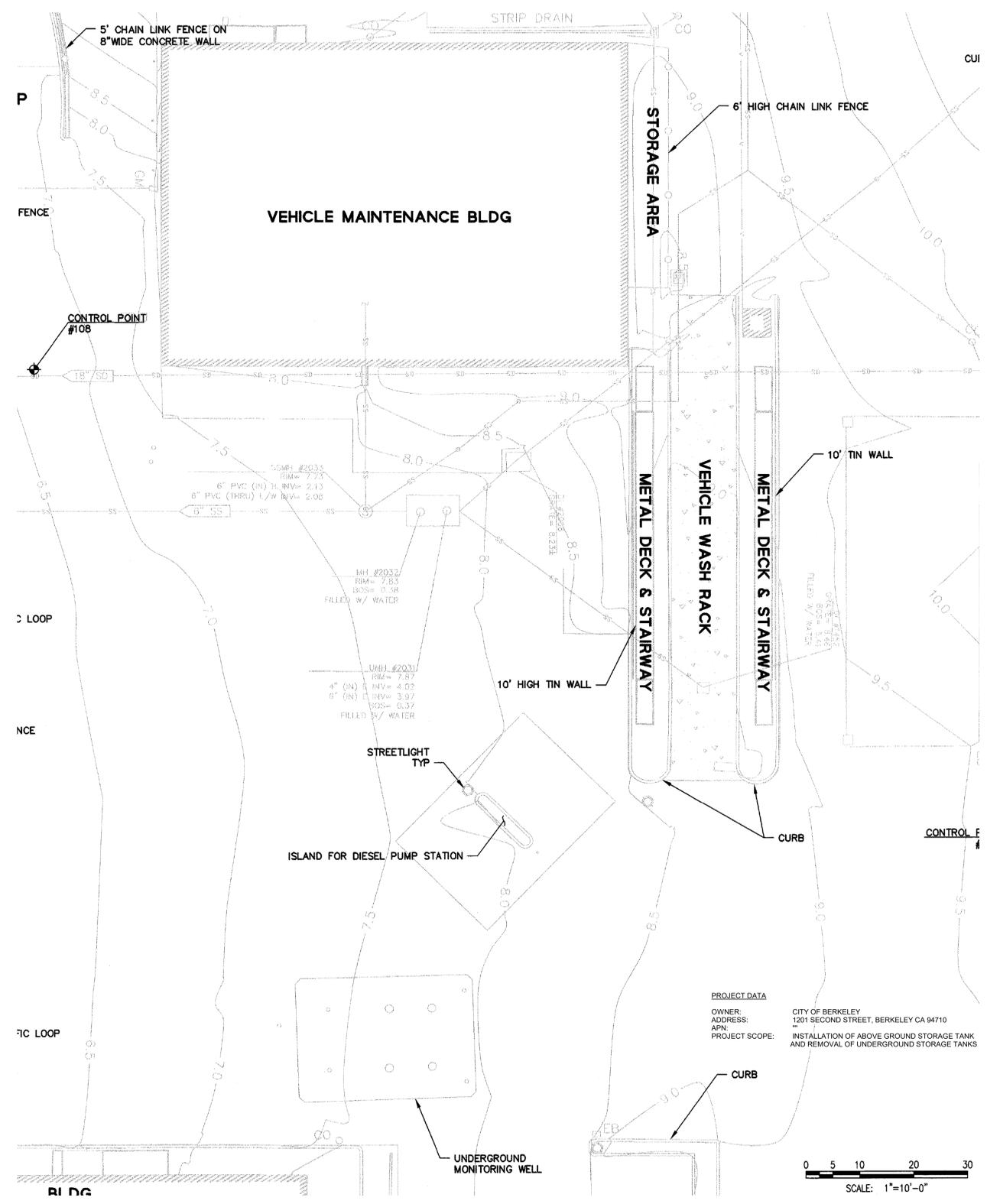
**STRUCTURAL STEEL NOTES**  
STRUCTURAL STEEL SPECIFICATIONS SHALL BE IN ACCORDANCE WITH:

STRUCTURAL STEEL PROPERTIES TABLE	
STRUCTURAL STEEL ELEMENTS	SPECIFICATION
STRUCTURAL STEEL PLATES	ASTM A36, GRADE 36 OR DUEL GRADE
PIPES	ASTM A53, GRADE B, Fy = 35 KSI
WELDING ELECTRODES	E70XX PER AWS D1.1 AND D1.8
ANCHOR BOLTS (AB) OR ANCHOR RODS	ASTM F1554, Fy = 36 KSI
ALL THREADED RODS (ATR)	ASTM A36, Fy = 36 KSI

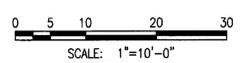
- ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS, LATEST EDITION.
  - ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS.
  - ALL TESTING AND INSPECTION OF SHOP AND FIELD WELDING OPERATIONS SHALL BE MADE BY A CERTIFIED WELDING INSPECTOR.
  - ALL WELDS SHALL BE TESTED AND INSPECTED IN ACCORDANCE WITH:
    - THE SPECIFICATIONS
    - THE CALIFORNIA BUILDING CODE
    - AWS D1.1, AS WELL AS D1.8 FOR SEISMIC ELEMENTS
- ALL WELDING ELECTRODES SHALL BE E70 SERIES. THE WELDING INSPECTOR SHALL CHECK THE WELDER'S CERTIFICATION, MATERIAL EQUIPMENT, FIT UP AND PROCEDURES AS WELL AS THE WELDS. THE INSPECTOR SHALL USE ALL MEANS NECESSARY TO DETERMINE THE QUALITY OF THE WELDS, INCLUDING THE USE OF GAMMA RAY, MAGNIFLUX, TREPANNING, SONICS OR ANY OTHER AID TO VISUALLY INSPECT AND TO ASCERTAIN THE ADEQUACY OF THE WELDING. THE INSPECTOR SHALL FURNISH THE ARCHITECT AND THE STRUCTURAL ENGINEER WITH A REPORT VERIFYING THAT ALL WELDS HAVE BEEN DONE IN CONFORMITY WITH THE PLANS, SPECIFICATIONS, AWS D1.1 AND ANY APPLICABLE CODES. UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE FABRICATION AND ERECTION REQUIREMENTS MAY DICTATE FIELD WELDING AND/OR SHOP WELDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE METHOD OF WELDING TO FULFILL THESE REQUIREMENTS. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE CONTRACT PRICE. ALL WELDS USED IN MEMBERS AND CONNECTIONS IN THE SEISMIC LOAD RESISTING SYSTEM AS DEFINED ON THE PLANS AS SLRS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 0 DEGREES FAHRENHEIT AS DETERMINED BY THE APPROPRIATE AWS AS CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION.
- SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE ITEMS REQUIRED BY THE SPECIFICATIONS AND THE FOLLOWING:
    - BOLLARDS
    - WHERE CLOSER THAN AISC TOLERANCES ARE NECESSARY, SUCH AS FOR ALIGNMENT OF STEEL STUDS, MULLIONS, GFRC PANELS, ETC., FIELD WELDING WILL BE REQUIRED TO MEET THE NECESSARY TOLERANCES WITH NO ADDITIONAL COSTS TO THE OWNER.
    - USE ONE TYPE OF WELDING ELECTRODE THROUGHOUT ANY ONE CONNECTION.
    - BOLT HOLES IN STEEL SHALL BE 1/16" OVERSIZE UNLESS OTHERWISE NOTED.

- TESTS, INSPECTIONS AND OBSERVATIONS NOTES**
- TESTS AND INSPECTIONS SHALL BE PROVIDED FOR ALL ITEMS AS REQUIRED BY THE CALIFORNIA BUILDING CODE.
  - SEE STATEMENT OF SPECIAL INSPECTIONS, WHEN INCLUDED, FOR SPECIAL INSPECTION REQUIREMENTS.
  - THE FOLLOWING ITEMS SHALL HAVE SPECIAL INSPECTION:
    - REINFORCING STEEL AND ANCHOR BOLTS
    - CONCRETE PLACEMENT
    - CONCRETE STRENGTH
    - STRUCTURAL STEEL AND WELDING
  - IN ADDITION TO SPECIAL INSPECTIONS, THE FOLLOWING SPECIFIED ITEMS SHALL HAVE PERIODIC STRUCTURAL OBSERVATION BY THE STRUCTURAL ENGINEER OF RECORD:
    - REINFORCING STEEL AND ANCHOR BOLTS
    - CONCRETE STRENGTH
    - STRUCTURAL STEEL AND WELDING
  - THE OWNER SHALL BE RESPONSIBLE FOR RETAINING AN INDEPENDENT TESTING AND INSPECTION LABORATORY TO PERFORM ALL REQUIRED TESTING AND INSPECTIONS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TESTING AND INSPECTION LABORATORY WITH CONSTRUCTION SCHEDULES TO ENSURE PROPER COORDINATION OF WORK.

THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OR INSPECTOR A MINIMUM OF 48 HOURS (EXCLUDING WEEKEND DAYS) PRIOR TO THE TIME OF A REQUIRED INSPECTION OR OBSERVATION.



**2 SITE MAP & PROJECT SCOPE**  
1" = 10'-0"



**PROJECT DATA**  
OWNER: CITY OF BERKELEY  
ADDRESS: 1201 SECOND STREET, BERKELEY CA 94710  
APN:  
PROJECT SCOPE: INSTALLATION OF ABOVE GROUND STORAGE TANK AND REMOVAL OF UNDERGROUND STORAGE TANKS

PROJECT:  
**Installation of Above Ground Storage Tank**  
Bid Set  
1201 SECOND STREET  
BERKELEY, CA 94710

SHEET TITLE:  
**GENERAL NOTES AND SITE MAP**  
JOB NO.: 18095.15 SHEET NO.:  
DATE: 02.26.26  
SCALE: AS SHOWN **\$1.00**



**STRUCTURAL ENGINEERS**

1629 Telegraph Ave  
Suite 300  
Oakland, CA 94612  
tel: 510.834.1629

ida-se.com



Signed on 06-13-2025

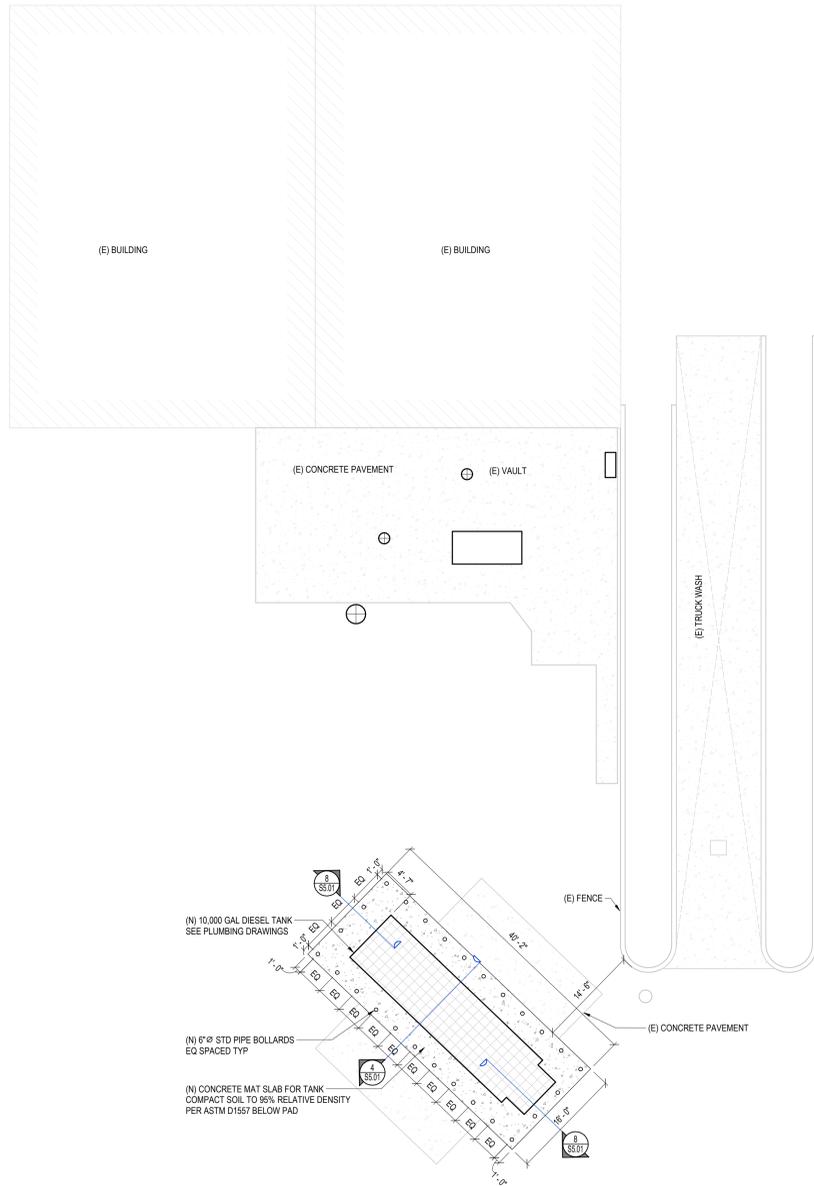
#	DESCRIPTION	DATE
1	POST PERMIT REVISIONS	03/02/2025

**NOTES:**

1. CONTRACTOR SHALL PROVIDE DESIGN BUILD ELECTRICAL SERVICE FROM SOURCE TO DIESEL PUMP.
2. CONTRACTOR SHALL ROUTE POWER IN CONDUITS IN TRENCHES.
3. ANY SLABS EFFECTED SHALL BE REPAIRED.

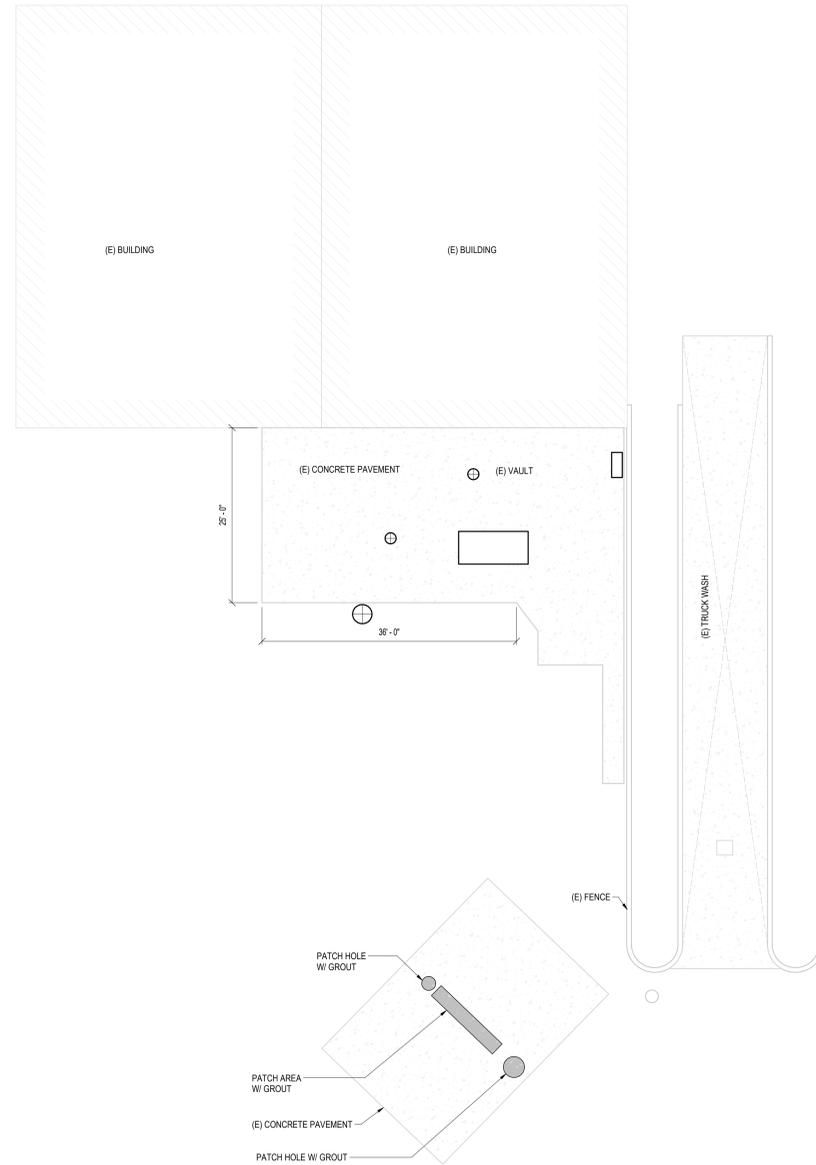
**DEMOLITION NOTES**

1. ALL SOILS AND OTHER MATERIALS FOR DEMOLITION WILL BE DEPOSED OF IN ACCORDANCE WITH CITY OF BERKELEY AND STATE OF CALIFORNIA REGULATIONS.
2. ANY CONTAMINANTS WILL BE TESTED FOR AND IDENTIFIED ON SITE AND HANDED IN ACCORDANCE WITH CITY OF BERKELEY AND STATE OF CALIFORNIA REGULATIONS.
3. CONTRACTOR IS TO USE CAUTION DURING DEMOLITION AND IS TO NOTIFY STRUCTURAL ENGINEER IMMEDIATELY IF ANY VARIATIONS OR DISCREPANCIES ARE UNCOVERED.
4. VERIFY ALL DIMENSIONS IN FIELD.



NOTE: DIMENSIONS ARE TAPE MEASURED, NOT SURVEYED. VERIFY IN FIELD

**2**  
**S2.01**  
NEW CONSTRUCTION  
1" = 10'-0"



NOTE: DIMENSIONS ARE TAPE MEASURED, NOT SURVEYED. VERIFY IN FIELD

**1**  
**S2.01**  
PUMP STATION SLAB REPAIR  
1" = 10'-0"

PROJECT:  
**Installation of Above  
Ground Storage Tank  
Bid Set**

1201 SECOND STREET  
BERKELEY, CA 94710

SHEET TITLE:

**NEW AND EXISTING  
STRUCTURAL PLANS**

JOB NO.: 18095.15 SHEET NO.:  
DATE: 02.26.26  
SCALE: AS SHOWN **S2.01**



**STRUCTURAL ENGINEERS**

1629 Telegraph Ave  
Suite 300  
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tel: 510.834.1629

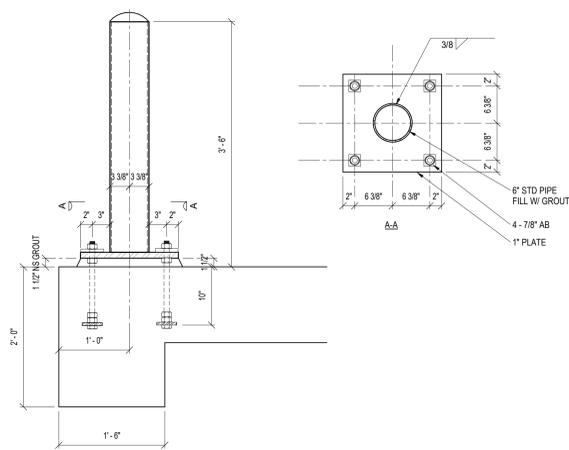
ida-se.com



Signed on 06-13-2025

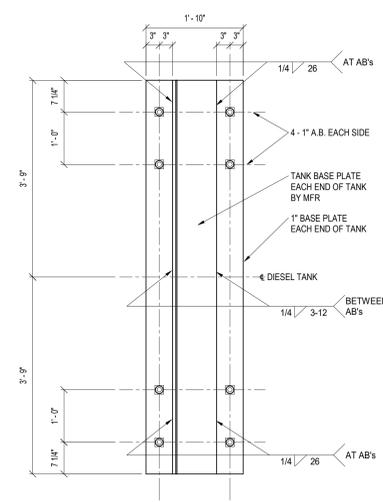
#	DESCRIPTION	DATE
1	POST PERMIT REVISIONS	03/02/2026

GALVANIZE ALL STEEL AND BOLTS W/ G90 GALV



**18**  
**S5.01** REMOVABLE BOLLARDS  
1" = 1'-0"

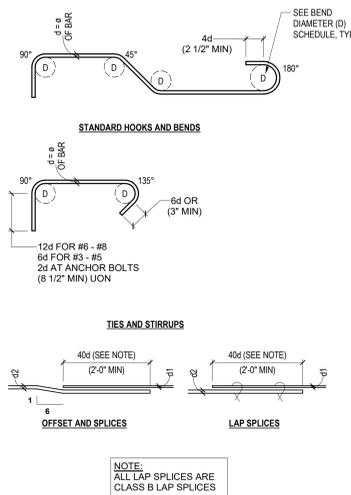
GALVANIZE ALL STEEL AND BOLTS W/ G90 GALV



**14**  
**S5.01** DIESEL TANK BASE PLATE AND ANCHOR BOLTS (EA END)  
3/4" = 1'-0"

BAR SIZE	BEND DIAMETER (D)	
	STANDARD HOOK & BENDS	STIRRUPS, TIES & HOOPS
#3 THRU #5	6d	4d
#6 THRU #8	6d	6d
#9 THRU #11	8d	N/A
#14 THRU #18	10d	N/A

FOR STIRRUPS & COLUMN TIES  
D=2d WITH EXTENSION OF 6d OR 3" MIN

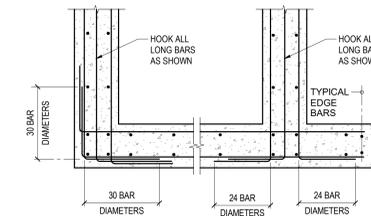


**10**  
**S5.01** TYPICAL REINFORCING BAR BENDS  
NTS

CONCRETE STRENGTH (PSI)	BAR TYPE	BAR SIZE																	
		#3		#4		#5		#6		#7		#8		#9		#10		#11	
		CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS
2500	TOP BAR	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
	ALL OTHER BARS	18	24	24	32	30	39	36	47	53	69	60	78	68	88	77	100	85	110
3000	TOP BAR	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
	ALL OTHER BARS	22	28	29	37	36	47	43	56	63	81	72	93	81	105	91	118	101	131
4000	TOP BAR	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
	ALL OTHER BARS	17	22	22	29	28	36	33	43	48	63	55	72	62	81	70	91	78	101
5000	TOP BAR	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
	ALL OTHER BARS	17	22	23	29	28	36	34	43	49	63	56	72	63	81	70	92	78	102
5000	TOP BAR	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
	ALL OTHER BARS	13	17	17	23	22	28	26	34	38	49	43	56	48	63	54	70	60	78

- NOTES:
1. SPLICE LENGTH IN INCHES.
  2. USE CLASS B FOR ALL LAP SPLICES EXCEPT CLASS A MAY BE USED FOR NON-STRUCTURAL SLABS ON GRADE.
  3. TOP BARS - HORIZONTAL BARS (OTHER THAN IN WALLS) PLACED WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS.
  4. TABLE IS BASED UPON MINIMUM CLEAR COVER GREATER THAN ONE BAR DIAMETER AND MINIMUM CLEAR SPACING GREATER THAN TWO BAR DIAMETERS. WHERE EITHER OF THESE REQUIREMENTS IS NOT MET, INCREASE LAP LENGTH BY 50%.

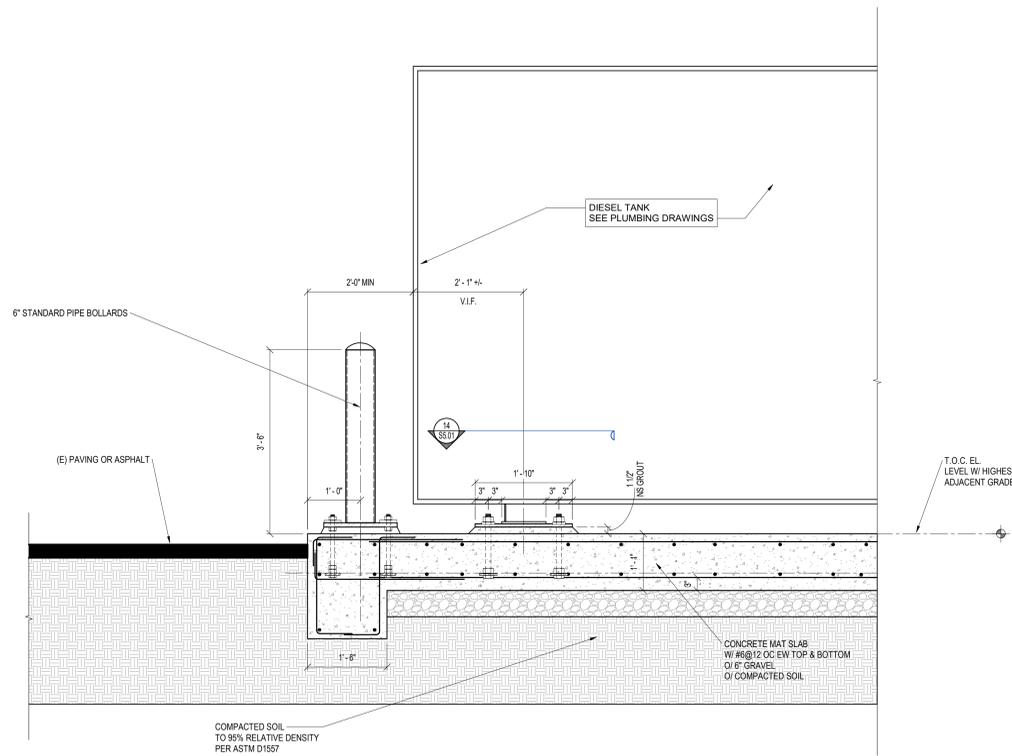
**5**  
**S5.01** REINFORCING BAR LAP SPLICE SCHEDULE IN CONCRETE  
3/4" = 1'-0"



**2**  
**S5.01** TYPICAL REINFORCING AT WALLS & FOOTING CORNERS  
NTS

6" STANDARD PIPE BOLLARDS

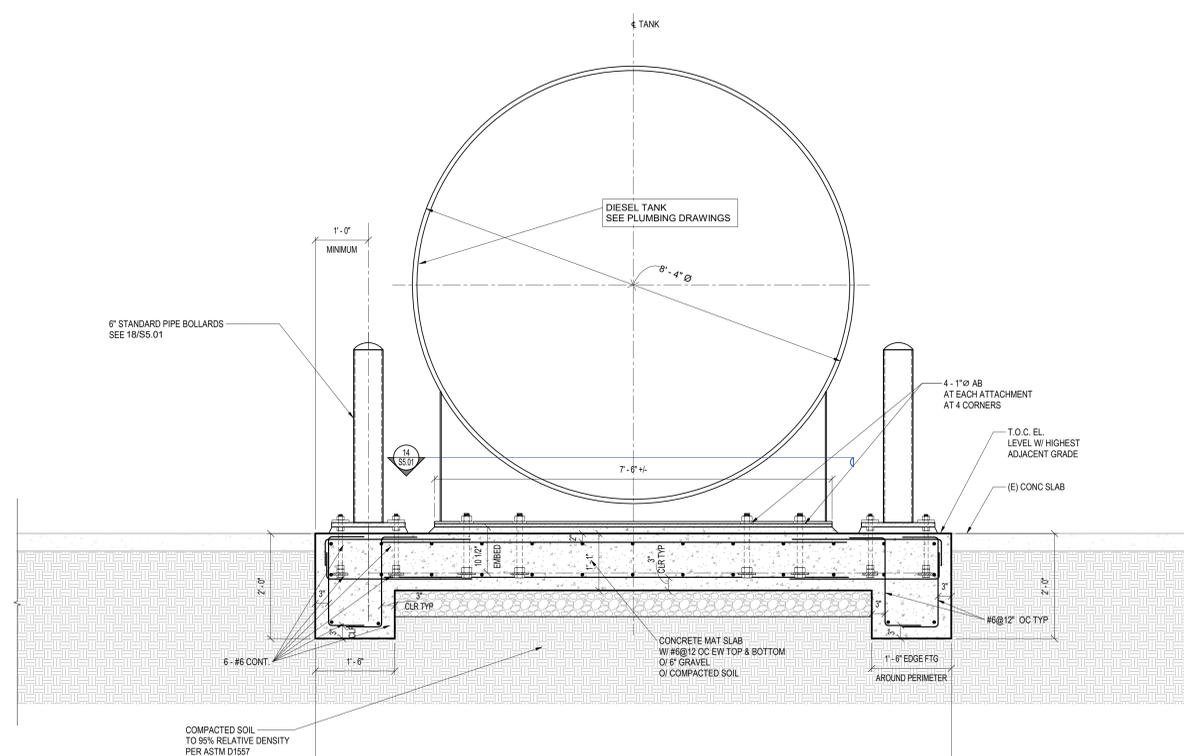
(E) PAVING OR ASPHALT



**8**  
**S5.01** MAT SLAB AT DIESEL TANK (LONGITUDINAL SECTION)  
3/4" = 1'-0"

6" STANDARD PIPE BOLLARDS  
SEE 10/S5.01

COMPACTED SOIL  
TO 95% RELATIVE DENSITY  
PER ASTM D1557



**4**  
**S5.01** MAT SLAB AT DIESEL TANK (TRANSVERSE SECTION)  
3/4" = 1'-0"

PROJECT:  
**Installation of Above Ground Storage Tank**  
Bid Set  
1201 SECOND STREET  
BERKELEY, CA 94710

SHEET TITLE:

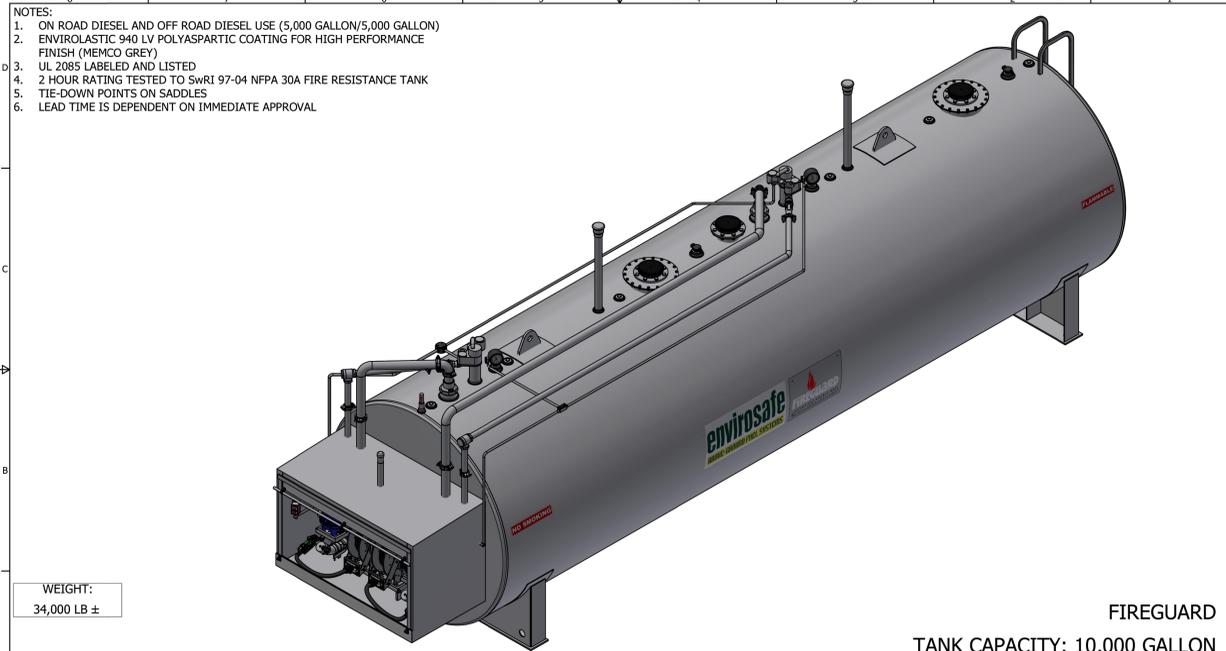
TYPICAL CONCRETE DETAILS

JOB NO.: 18095.15 SHEET NO.:  
DATE: 02.26.26  
SCALE: AS SHOWN **S5.01**

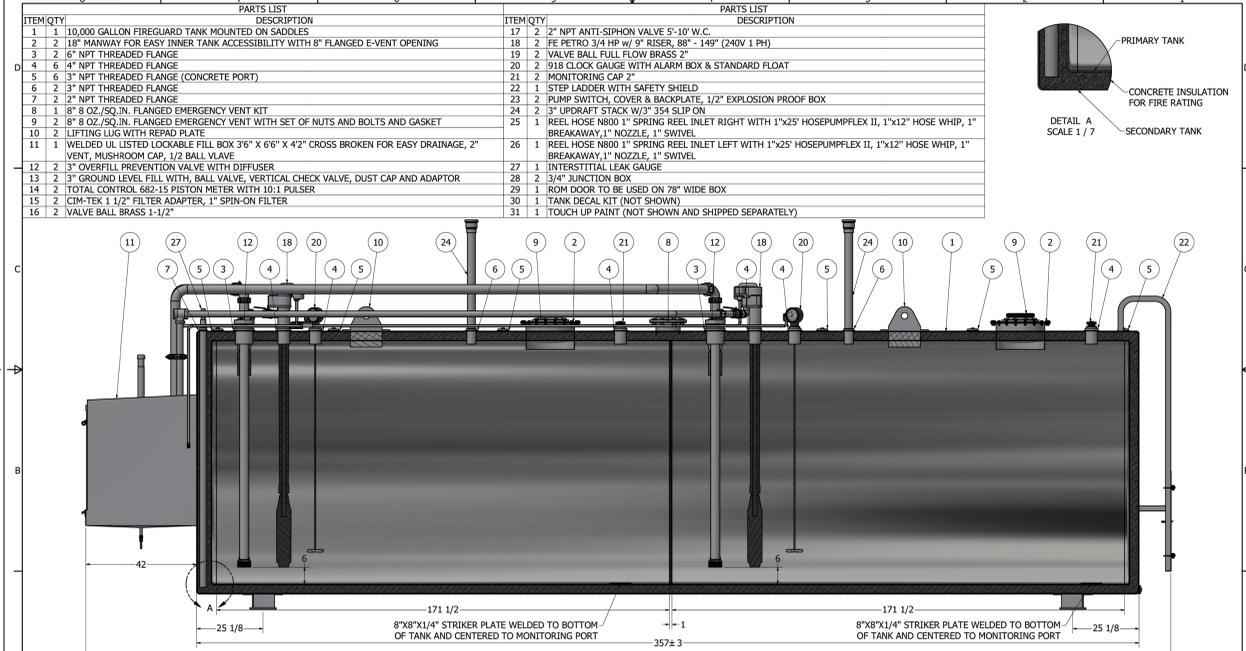


ABOVEGROUND, SELF CONTAINED STORAGE TANK - BASIS OF DESIGN

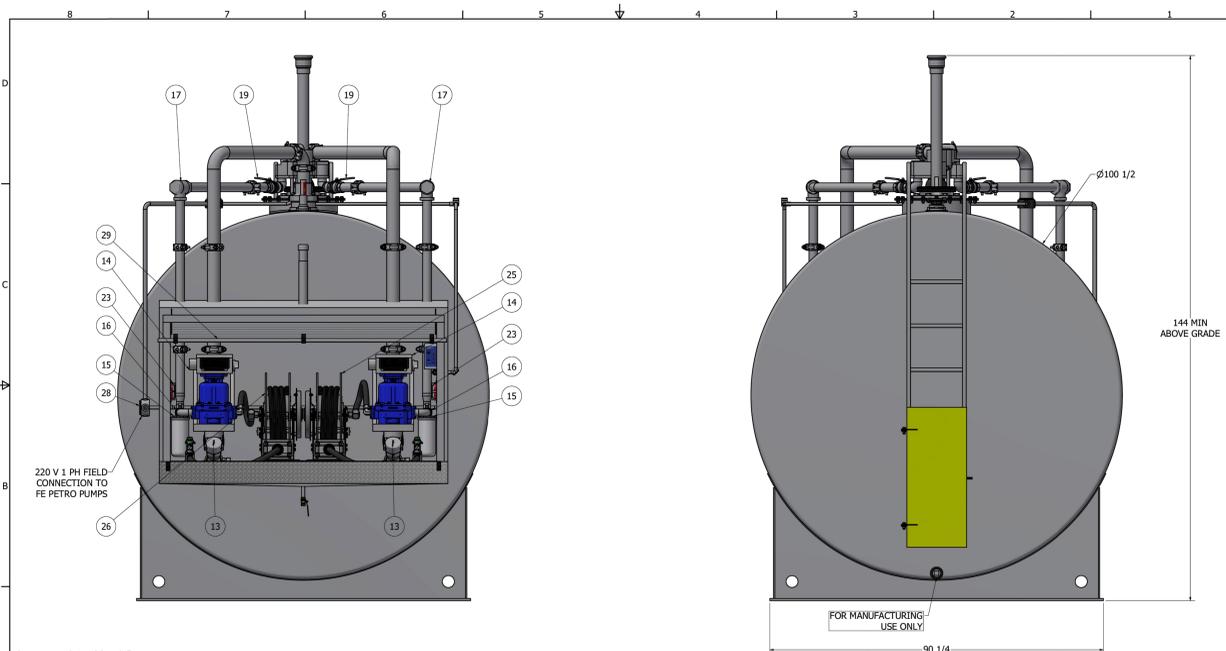
SELF-CONTAINED ABOVE GROUND DOUBLE WALLED TANK SCHEDULE												
SYMBOL	MANUFACTURER /MODEL	LOCATION	SYSTEM	WEIGHT	VOLUME (GAL)	APPROXIMATE DIMS		ELECTRIC			NOTES	
						LENGTH (IN)	DIAMETER (IN)	PUMP HP	VOLTS	PHASE		MOCP (AMPS)
FT-1	ENVIROSAFE (OR EQUAL)	SITE	BUDDE/FUEL	105,000	10000	360	100	3/4	220	1	20	PROVIDE (2) PUMPS AND FILL NOZZLES MOUNTED IN LOCKABLE ENCLOSURE ON END OF TANK. PROVIDE WITH MORRISON 1238 ELECTRONIC LEAK DETECTION SYSTEM. COORDINATE WITH ELECTRICAL FOR POWER AND COMMUNICATION REQUIREMENTS.



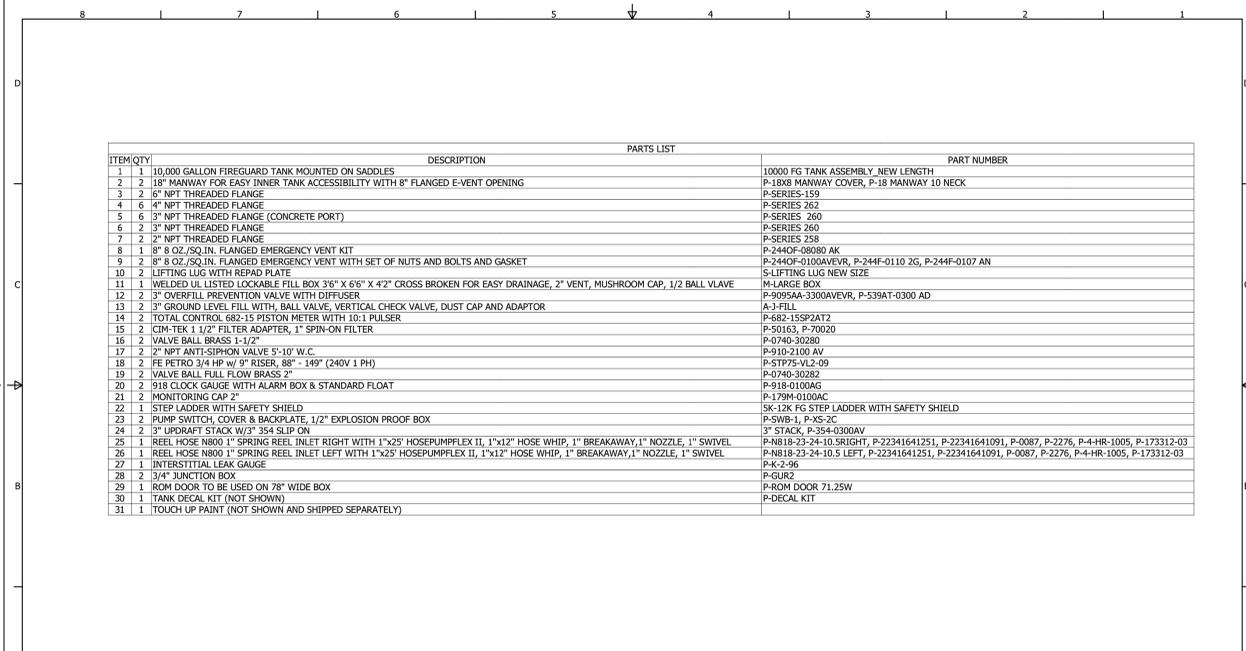
STI		SwRI	UL	MEMCO, INC		AUTHOR AKSHAR P	SALES ER	envirosafe
ER VERSION #:		SALES ORDER #:		DATE 6/20/2023	SIZE	REV	SHEET 1 OF 4	ABOVE-GROUND FUEL SYSTEMS



STI		SwRI	UL	MEMCO, INC		AUTHOR AKSHAR P	SALES ER	envirosafe
ER VERSION #:		SALES ORDER #:		DATE 6/20/2023	SIZE	REV	SHEET 1 OF 4	ABOVE-GROUND FUEL SYSTEMS



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STI		SwRI	UL	MEMCO, INC		AUTHOR AKSHAR P	SALES ER	envirosafe
ER VERSION #:		SALES ORDER #:		DATE 6/20/2023	SIZE	REV	SHEET 1 OF 4	ABOVE-GROUND FUEL SYSTEMS

PERMIT SUBMITTAL	12-12-25
BID SET	03-02-26



ENGINEERING DESIGN COLLABORATIVE  
582 MARKET STREET, SUITE 400  
SAN FRANCISCO, CA 94104

212 9TH STREET, SUITE 203  
OAKLAND, CA 94607

91 GREGORY LANE, SUITE 3  
PLEASANT HILL, CA 94523

(415) 963-4303



PROJECT:  
**Installation of Above Ground Storage Tank**

1201 SECOND STREET  
BERKELEY, CA 94710

SHEET TITLE:  
**PLUMBING SCHEDULE/CUTSHEETS**

JOB NO.: SHEET NO.:  
DATE: 01-31-2025  
SCALE: AS SHOWN **P0.01**

SHEET NOTES	
1.	DEMOLISH (E) PUMP AND ASSOCIATED UG PIPING.

PERMIT SUBMITTAL	12-12-25
BID SET	03-02-26

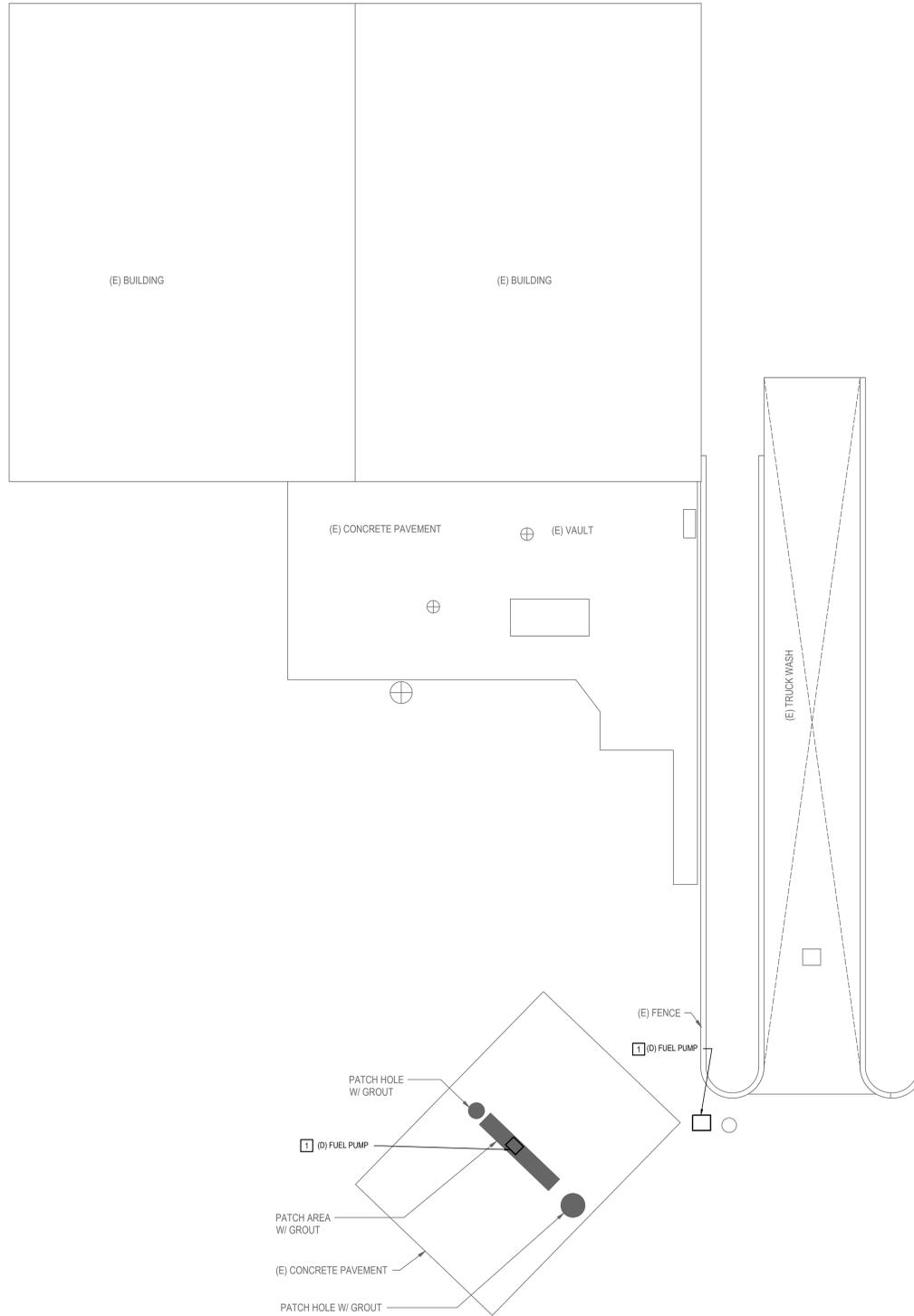


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SAN FRANCISCO, CA 94104

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OAKLAND, CA 94607

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PLEASANT HILL, CA 94523

(415) 963-4303



**1** PLUMBING DEMOLITION SITE PLAN  
SCALE: 1/8" = 1'-0"

PROJECT:  
**Installation of Above  
Ground Storage Tank**

1201 SECOND STREET  
BERKELEY, CA 94710

SHEET TITLE:

**PLUMBING DEMOLITION  
SITE PLAN**

JOB NO.: SHEET NO.:  
DATE: 01-31-2025  
SCALE: AS SHOWN **P2.00**

**GENERAL NOTES**

A. THE ABOVEGROUND STORAGE TANK IS SELF CONTAINED WITH ALL SYSTEMS (INCLUDING BUT NOT LIMITED TO LEAK DETECTION, CONTROLS, ETC.) INSTALLED AND TESTED BY THE MANUFACTURER. REFER TO STRUCTURAL SHEETS FOR MOUNTING INFORMATION AND PD.01 FOR CUTSHEETS OF TANK. COORDINATE ALL REQUIREMENTS WITH THE MANUFACTURER.

PERMIT SUBMITTAL	12-12-25
BID SET	03-02-26

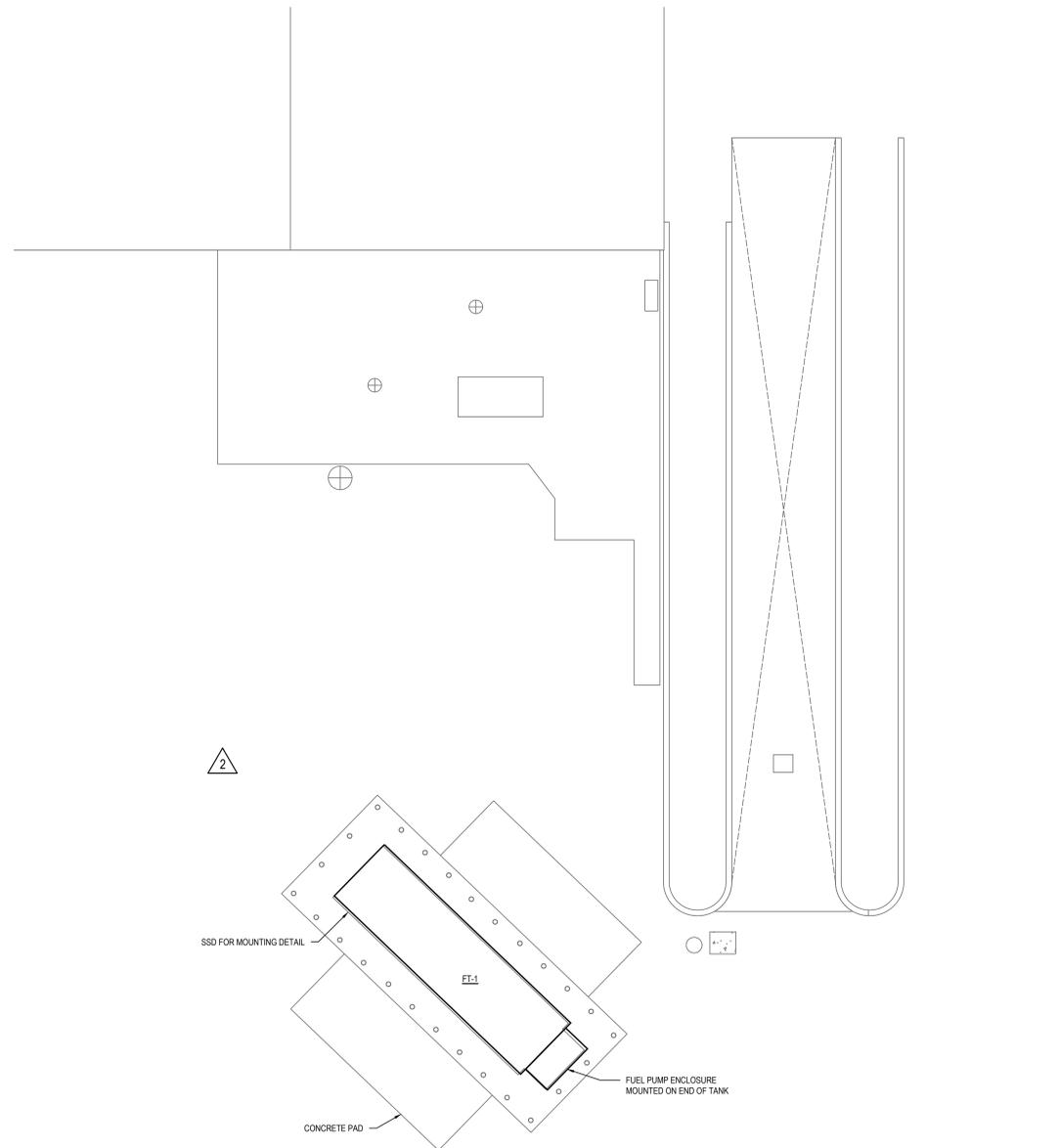


ENGINEERING DESIGN COLLABORATIVE  
582 MARKET STREET, SUITE 400  
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OAKLAND, CA 94607

91 GREGORY LANE, SUITE 3  
PLEASANT HILL, CA 94523

(415) 963-4303



**1 PLUMBING PROPOSED SITE PLAN**  
SCALE: 1/8" = 1'-0"



PROJECT:  
**Installation of Above  
Ground Storage Tank**

1201 SECOND STREET  
BERKELEY, CA 94710

SHEET TITLE:

**PLUMBING PROPOSED  
SITE PLAN**

JOB NO.: SHEET NO.:  
DATE: 01-31-2025  
SCALE: AS SHOWN **P2.10**

**GENERAL NOTES**

- ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRIC CODE, STATE LAWS, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING JOB CONDITION. HE SHALL EXAMINE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND SHALL HAVE VISITED THE CONSTRUCTION SITE, PRIOR TO SUBMITTING HIS BID PROPOSAL. HE SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART. DETERMINE THE SEQUENCE OF CONSTRUCTION THROUGHOUT THE PROJECT, INCLUDING TEMPORARY FACILITIES AND CONNECTIONS REQUIRED FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS, AND PAY ANY AND ALL FEES AS REQUIRED.
- EXISTING ARCHITECTURAL SURFACES DISTURBED DURING CONSTRUCTION SHALL BE PATCHED AND PAINTED TO MATCH EXISTING.
- WORK SHOWN IN THESE PLANS ARE NEW, UNLESS INDICATED OTHERWISE. INSTALLATION SHALL BE CONCEALED, WHERE NOT POSSIBLE, CONTRACTOR SHALL OBTAIN APPROVAL FROM ARCHITECT AND ENGINEER FOR EXPOSED INSTALLATION. A WRITTEN APPROVAL IS REQUIRED. USE SURFACE RACEWAYS, WIREKNOB, OR EQUAL. ALL ELECTRIC MATERIALS, DEVICES, AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND U.L. APPROVED.
- ALL CONDUIT SHALL BE 3/4" MINIMUM. ALL CONDUIT SHALL BE RUN PARALLEL TO EXISTING SURFACES. WHEN CONDUIT CROSSES CORRIDORS OR ROOMS IT SHALL BE DONE PERPENDICULAR TO WALLS.
- PAINT ALL SURFACE MOUNTED CONDUITS AND FITTINGS TO MATCH ADJACENT SURFACE. CONFIRM COLOR WITH OWNER.
- ALL EXPOSED CONDUITS SHALL BE MOUNTED WITH 2-HOLE STRAPS.
- CONDUIT CONNECTORS SHALL BE COMPRESSION TYPE.
- SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS. FURNISH AND INSTALL FIRE RATED BACKBOXES AS REQUIRED TO MAINTAIN FIRE RATING OF CEILING OR WALLS WHERE RECESSED ELECTRIC EQUIPMENT SUCH AS LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANEL, ETC. ARE INSTALLED IN RATED WALL OR CEILING. PENETRATIONS OF FIRE RATED WALLS, CEILINGS, OR FLOORS SHALL COMPLY WITH CBC CHAPTER 7 REQUIREMENTS. IN WALLS AND PARTITIONS THAT ARE FOR FIRE RESISTIVE CONSTRUCTION, OPENINGS FOR STEEL ELECTRICAL OUTLET BOXES SHALL NOT EXCEED 16 SQUARE INCHES. IN ADDITION, THE AGGREGATE AREA OF SUCH OPENINGS SHALL NOT EXCEED 100 SQUARE INCH FOR ANY 100 SQUARE FEET OF WALL OR PARTITION. OUTLET BOXES ON OPPOSITE SIDES OF THE WALLS OR PARTITION SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES, OR BE PROVIDED WITH FIRE PUTTY.
- ALL NEW WIRING SHALL BE IN CONDUIT. COORDINATE ROUTING OF CONDUIT WITH ARCHITECT AND STRUCTURAL FOR OPENINGS IN WALLS AND ANY NOTCHING OF JOISTS.
- THE ELECTRICAL PLANS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL OF THE ARCHITECTURAL DETAILS OR SPECIFICS OF ELECTRICAL CONSTRUCTION. TAKE ALL DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS. BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, CONDUIT RUNS, ETC. WITH ARCHITECT AND OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN. SEE ELECTRICAL SECTION OF ARCHITECTURAL SPECIFICATION FOR ADDITIONAL INFORMATION.
- PULLROPS: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER.
- ALL DEVICES AND EQUIPMENT INSTALLED OUTDOORS OR EXPOSED TO THE WEATHER SHALL BE OF WEATHERPROOF CONSTRUCTION. ALL WALL PENETRATIONS TO EXTERIOR WALLS SHALL BE SEALED WATER TIGHT.
- ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING (I.E. MAXIMUM FUSE SIZE MEANS FUSE PROTECTION IS REQUIRED).
- ALL EQUIPMENT MANUFACTURERS SHALL BE NOTED IN DRAWINGS. SUBSTITUTIONS ARE PERMITTED BUT MUST BE APPROVED EQUAL.
- CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE MADE WITH A MINIMUM OF 24" OF WEATHERPROOF FLEXIBLE CONDUIT TO PREVENT SOUND AND VIBRATION TRANSMISSION TO THE STRUCTURE. COORDINATE ALL MOTOR OVERLOADS AND/OR FUSES FURNISHED BY THIS CONTRACTOR WITH THE ACTUAL EQUIPMENT INSTALLED. SIZE OVERLOADS BASED ON MOTOR NAMEPLATE FULL LOAD CURRENT AND SERVICE FACTOR. FUSES FOR MOTOR AND TRANSFORMER CIRCUITS SHALL BE DUAL ELEMENT. FUSES FOR OTHER NON-MOTOR LOADS SHALL BE FAST ACTING. ALL FUSES SHALL BE CURRENT LIMITING CLASS RK5 OR CLASS L, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR MANUFACTURER INSTALLATION REQUIREMENTS.
- SEE MECHANICAL AND PLUMBING DRAWINGS FOR LOCATION OF FANS AND WATER HEATERS.
- ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE MECHANICAL WORK AS CALLED FOR IN MECHANICAL SPECIFICATIONS.
- GROUNDING CONDUCTORS ARE GENERALLY NOT SHOWN. GROUND AND BOND ALL EQUIPMENT, RACEWAYS, MOTORS, PANELBOARDS AND SWITCHBOARDS, ETC. IN ACCORDANCE WITH NEC ARTICLE 250.
- FIELD MOUNTED DEVICES SUCH AS SWITCHES, MOTOR STARTERS, RECEPTACLES, ETC., ARE SHOWN IN THEIR APPROXIMATE LOCATION. SWITCH MOUNTING HEIGHT SHALL BE 48" ABOVE FINISHED FLOOR AND RECEPTACLE MOUNTING HEIGHT SHALL BE 18" ABOVE FINISHED FLOOR. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR MANUFACTURER INSTALLATION REQUIREMENTS.
- ELECTRICAL CONTRACTOR TO PROVIDE EXPANSION FITTINGS AT ALL EXPANSION JOINT LOCATION. USE STEEL FLEX 6 FEET EACH SIDE OF THE JOINT AND TERMINATE IN A PULLBOX AT EACH END, OR OTHER APPLIED METHODS.
- ALL LIGHTING FIXTURE LOCATIONS AND ROUTING SHALL BE REVIEWED BY ARCHITECT PRIOR TO ROUGH-IN.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MAINTAIN A MINIMUM OF 36" CLEARANCE PER NEC ARTICLE 110.26.
- PENETRATIONS OF FIRE RATED WALLS CEILINGS OR FLOORS SHALL COMPLY WITH CBC CHAPTER 7 REQUIREMENTS.
- WHERE OUTLET BOXES ARE INSTALLED WITHIN RATED ASSEMBLIES, PROVIDE 3M MOLDABLE PUTTY PADS OR EQUAL TO MAINTAIN FIRE RATED ASSEMBLIES.
- ALL RECEPTACLES SHALL BE GROUNDING TYPE.
- ALL RECEPTACLES INSTALLED IN BATHROOMS AND KITCHENS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION AS REQUIRED BY THE NATIONAL ELECTRIC CODE.
- CONTRACTOR TO CONFIRM EXACT LOCATION OF METERS WITH ELECTRIC UTILITY.
- SUBMIT TO THE OWNER CERTIFICATES OF INSPECTIONS IN DUPLICATE FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION.
- PERFORMANCE AND WITNESSING OF TESTS:
  - THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND QUALIFIED PERSONNEL OR FIRM TO PERFORM ALL REQUIRED TESTS.
  - ALL NEW AND RECONNECTED ELECTRICAL CIRCUIT SHALL BE TESTED TO INSURE CIRCUIT CONTINUITY, INSULATION RESISTANCE, PROPER SPLICING AND GROUNDING IN ACCORDANCE WITH THE LATEST STANDARDS AS STATED ABOVE. BEFORE CONNECTING POWER CABLES TO MOTORS, THE INSULATION RESISTANCE OF ALL MOTOR WINDINGS SHALL BE TESTED IN ACCORDANCE WITH THE ABOVE STANDARDS.
  - ANY CONTRACTOR FURNISHED AND/OR INSTALLED SPLICE, RECOMMENDED VOLTAGE AND INSULATION RESISTANCE TESTS, SHALL BE CONNECTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
  - NO EQUIPMENT SHALL BE ENERGIZED UNTIL ALL TESTS AND ADJUSTMENTS HAVE BEEN MADE.
  - THREE COPIES OF ALL TEST RESULTS SHALL BE DELIVERED TO THE OWNER.
- IN DOUBLE-STUD PARTITIONS, CONDUIT SHOULD NOT BRIDGE STUD ROWS. CONDUIT SHOULD BE ROUTED ONLY IN THE STUDS ON THE SIDE OF THE UNIT SERVED AND SHOULD NOT BE PLACED IN THE GAP BETWEEN STUD ROWS.
- OUTLET BOXES ON OPPOSITE SIDES OF DEMISING PARTITIONS SHOULD BE SEPARATED BY AT LEAST 16 INCHES AND PROVIDE BACKING EQUIVALENT TO LOWRY'S OUTLET BOX PADS. WHEN ELECTRICAL BOXES MUST BE BACK-TO-BACK OR LESS THAN 16" OF EACH OTHER, INSTALL GYPSUM BOARD CENTERED VERTICALLY TO BOX FROM STUD TO STUD.
- DO NOT ALLOW ELECTRICAL CONDUIT OR BOXES TO COME INTO CONTACT WITH PLUMBING.

**SYMBOLS (NOT ALL USED)**

**GENERAL SYMBOLS**

- # = DETAIL NUMBER  
X = SHEET NUMBER
- DEMOLITION WORK
- MATCH LINE
- ENLARGED PLANS
- BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED IN CEILING OR WALL.
- BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND.
- BRANCH CIRCUIT HOMERUN TO PANEL, CONCEALED IN CEILING SPACE OR WHERE POSSIBLE.
- REQUIRED WORKING CLEARANCE PER NEC 110.26.
- LIGHT FIXTURE TAG (X = FIXTURE TYPE). REFER TO LIGHTING SCHEDULE.

**POWER SYSTEM SYMBOLS**

- JUNCTION OR OUTLET BOX MOUNTED ABOVE CEILING WITH BLANK COVER.
  - X = JUNCTION BOX TYPE, CU = CONDENSING UNIT, EF = EXHAUST FAN, ERY = ENERGY RECOVERY VENTILATOR, FC = FAN COIL, KRH = KITCHEN RANGE HOOD, HP = HEAT PUMP, OAF = OUTSIDE AIR FAN, AND SF = SUPPLY FAN.
- 1" CONDUIT HOMERUN TO PANEL EV FOR FUTURE EV CHARGING STATION AT EV CAPABLE SPACES, BOLLARD MOUNT OR WALL MOUNT.
- HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS.
- EMERGENCY POWER OFF BUTTON
- FUSED DISCONNECT SWITCH WITH DUAL ELEMENT FUSED (UON).
- DUPLEX RECEPTACLE 20A, 125V, 3WG, NEMA 5-20R, +15" (UON). NEW INTERIOR RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. REFER TO PANEL SCHEDULES FOR AFCI TYPE RECEPTACLE APPLICATION.
  - X = RECEPTACLE TYPE: WP = GFCI AND WEATHERPROOF WITH IN-USE COVER, D = DEDICATED, GFCI = WITH GROUND FAULT CIRCUIT INTERRUPTER, AND OS = OCCUPANCY SENSOR CONTROLLED.
- DUPLEX RECEPTACLE 20A, WITH GROUND FAULT CIRCUIT INTERRUPTER, +15" (UON), (WP = WEATHERPROOF)
- DUPLEX RECEPTACLE 20A, ABOVE COUNTER OR +42" AFF.
- DOUBLE DUPLEX RECEPTACLE (2) NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER, ABOVE COUNTER.
- DUPLEX RECEPTACLE, 20A, FLUSH MOUNTED FLOOR BOX, NEW INTERIOR RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. REFER TO PANEL SCHEDULES FOR AFCI TYPE RECEPTACLE APPLICATION.
- QUADPLEX RECEPTACLE NEMA 5-20R, FLUSH MOUNTED FLOOR BOX, NEW INTERIOR RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. REFER TO PANEL SCHEDULES FOR AFCI TYPE RECEPTACLE APPLICATION.
- DOUBLE DUPLEX RECEPTACLE (2) NEMA 5-15R.
- DOUBLE DUPLEX RECEPTACLE (2) NEMA 5-20R, SPLIT-WIRED, WITH GROUND FAULT CIRCUIT INTERRUPTER.
- 240V OR 208V RECEPTACLE OR OUTLET. COORDINATE ELECTRICAL CONNECTION WITH FINAL EQUIPMENT SELECTION.
- PANELBOARD: 120/240V, 1 PHASE, 3 WIRE SURFACE MOUNTED, 120/208V, 3 PHASE, 4 WIRE FLUSH/SURFACE MOUNTED.

**LIGHTING CONTROLS SYSTEM SYMBOLS**

- LOW VOLTAGE DIMMER SWITCH FOR MULTIPLE ZONES. (# = NUMBER OF CONTROLLED ZONE AND a.b = ZONE)
- SINGLE POLE SWITCH AND BOX WITH STANDARD MANUAL ON / OFF IN COMBINATION OF SWITCH TYPE LISTED BELOW, WALL MOUNTED, +48" AFF TO THE TOP OF THE BOX, UON.
  - X = SWITCH TYPE: BLANK = MANUAL ON / OFF ONLY, 3 = THREE-WAY, D = DIMMER, OS = OCCUPANCY SENSOR, VS = VACANCY SENSOR, AND WP = WEATHERPROOF.
- SINGLE POLE SWITCH AND BOX WITH LIGHTING SENSOR AND DIMMING CAPABILITY, WALL MOUNTED, +48" AFF TO THE TOP OF THE BOX, UON.
  - SWITCH TYPE: OSD = OCCUPANCY SENSOR WITH DIMMER
- THREE-WAY SWITCH WITH DIMMING CAPABILITY, WALL MOUNTED, +48" AFF TO THE TOP OF THE BOX, UON.
  - a.b = CONTROLLED ZONE (ONLY APPLICABLE TO THREE-WAY SWITCH).
- LIGHTING SENSOR, CEILING MOUNTED.  
OS = CONFIGURE FOR OCCUPANCY AND VS = CONFIGURE FOR VACANCY.
- LIGHTING SENSOR, WALL MOUNTED.  
OS = CONFIGURE FOR OCCUPANCY AND VS = CONFIGURE FOR VACANCY.
- LIGHTING SENSOR COMBO OF OCCUPANCY AND DAYLIGHT, CEILING MOUNTED.
- DAYLIGHTING SENSOR, CEILING MOUNTED.

**FIRE ALARM SYSTEM SYMBOLS (DEFERRED)**

- FIRE ALARM SYSTEM SMOKE DETECTOR, CEILING MOUNTED
- 120V SMOKE ALARM WITH BATTERY BACKUP, CEILING MOUNTED. (CO = SMOKE/CARBON MONOXIDE ALARM)
- LOW FREQUENCY HORN FOR BUILDING SYSTEM ALERT AT UNITS, WALL MOUNTED.
- FIRE ALARM HORN STROBE DEVICE ACTIVATED BY BUILDING SYSTEM, WALL MOUNTED. (# = CANDELA RATING)
- MANUAL PULL STATION, WALL MOUNTED.

**SCOPE OF WORK**

- POWER SYSTEM
  - REMOVE AND RELOCATE EXISTING EMERGENCY POWER OFF BUTTON AND EXTEND EXISTING CONDUIT TO NEW CONTROL PANEL.
  - REMOVE EXISTING CONTROL PANEL AND EXTEND EXISTING CONDUIT TO NEW CONTROL PANEL.
  - PROVIDE POWER TO FUEL TANK. REFER TO PLUMBING DRAWINGS AND FUEL TANK MANUFACTURER FOR POWER REQUIREMENTS.
  - REUSE EXISTING BRANCH CIRCUITS FOR 2 FUEL PUMPS AND CONTROL PANEL.

**APPLICABLE CODES**

- 2022 BUILDING STANDARD ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE (FC), PART 9, TITLE 24, C.C.R.
- 2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
- 2022 CALIFORNIA "GREEN" BUILDING REQUIREMENTS, PART 11, TITLE 24 C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
- TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

NFPA 13, AUTOMATIC SPRINKLER SYSTEM, 2022 EDITION  
 NFPA 14, STANDPIPE AND HOSE SYSTEMS, 2022 EDITION  
 NFPA 72, NATIONAL FIRE ALARM CODE, 2022 EDITION  
 LOCAL MUNICIPAL BUILDING CODES

**ABBREVIATIONS**

(E)	EXISTING TO REMAIN	LTG	LIGHTING
(F)	FUTURE	LTS	LIGHTS
(N)	NEW	LV	LOW VOLTAGE
(RR)	REMOVE AND RELOCATE	MC	MEDIA CABINET
A	AMPERE	MECH	MECHANICAL
AC	ALTERNATING CURRENT	MTD	MOUNTED
ADA	AMERICANS WITH DISABILITIES ACT	MV	MEDIUM VOLTAGE
AF	AMPERE RATING OF FUSE	N	NEUTRAL
AFCI	ARC FAULT CIRCUIT INTERRUPTER	N.E.C.	NATIONAL ELECTRICAL CODE
AGF	ABOVE FINISHED FLOOR	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AV	AUDIOVISUAL	NETU	NEUTRAL
BS	BRANCH SELECTOR	NIC	NOT IN CONTRACT
C	CONDUIT	NTS	NOT TO SCALE
CKT	CIRCUIT	OS	OCCUPANCY SENSOR
CO	CARBON MONOXIDE	OSD	OCCUPANCY SENSOR WITH DIMMER
CJ	CONDENSING UNIT	P	POLE
DIG	DISHWASHER AND GARBAGE DISPOSAL	PB	PULL BOX
D	DEDICATED	PH, φ	PHASE
DM	DIMMABLE	PNL	PANEL
EC	ELECTRICAL CONTRACTOR	POS	POINT OF SALE
EF	EXHAUST FAN	RSC	RIGID STEEL CONDUIT
ELEC	ELECTRICAL	S.A.D.	SEE ARCHITECTURAL DRAWINGS
EM	EMERGENCY	S.A.V.D.	SEE AUDIOVISUAL DRAWINGS
EMT	ELECTRICAL METALLIC TUBING	S.C.D.	SEE CIVIL DRAWINGS
ENT	ELECTRICAL NONMETALLIC TUBING	S.L.D.	SEE LANDSCAPE DRAWINGS
EY	ELECTRIC VEHICLE	S.L.D.G.	SINGLE LINE DIAGRAM
EVSE	ELECTRIC VEHICLE SUPPLIED EQUIPMENT	S.M.D.	SEE MECHANICAL DRAWINGS
FI	FURNISH AND INSTALL	S.P.D.	SEE PLUMBING DRAWINGS
FACP	FIRE ALARM CONTROL PANEL	SLD	SINGLE LINE DIAGRAM
FATC	FIRE ALARM TERMINAL CAN	SPEC	SPECIFICATION
FC	FAN COIL	T	TYPICAL
FSD	FIRE SMOKE DAMPER	TV	TELEVISION
G	GROUNDING CONDUCTOR	UG	UNDERGROUND
GFI	GROUND FAULT INTERRUPTER	UAC	UNDER ANOTHER CONTRACT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UON	UNLESS OTHERWISE NOTED
OND	GROUND	V	VOLT
HP	HORSEPOWER	VD%	VOLTAGE DROP PERCENTAGE
HVI	HEARING AND VISUALLY IMPAIRED	VP	VANDAL PROOF
IWH	INSTANT WATER HEATER	VS	VACANCY SENSOR
JB	JUNCTION BOX	VSD	VACANCY SENSOR WITH DIMMER
KVA	KILOVOLT AMPS	W	WATTS
KW	KILOWATTS	WAP	WIRELESS ACCESS POINT
LC	LOAD CENTER	WP	WEATHERPROOF (NEMA 3R)
LF	LOW FREQUENCY	WT	WATERTIGHT
		XPBR	TRANSFORMER

**SHEET INDEX**

E0.00	ELECTRICAL TITLE SHEET
E0.10	ELECTRICAL SITE PLAN

	PERMIT RESUBMITTAL	6/13/2025
	BID SET	03-02-26



ENGINEERING DESIGN COLLABORATIVE  
 582 MARKET STREET, SUITE 400  
 SAN FRANCISCO, CA 94104

212 9TH STREET, SUITE 203  
 OAKLAND, CA 94607

91 GREGORY LANE, SUITE 3  
 PLEASANT HILL, CA 94523

(415) 963-4303



PROJECT:  
**Installation of Above Ground Storage Tank**  
 Bid Set  
 1201 SECOND STREET  
 BERKELEY, CA 94710

SHEET TITLE:

**ELECTRICAL TITLE SHEET**

JOB NO.:  
 DATE: 01-31-2025  
 SCALE: AS SHOWN

SHEET NO.:  
**E0.00**



# STRUCTURAL ENGINEERS

1629 Telegraph Ave  
Suite 300  
Oakland, CA 94612  
tel: 510.834.1629

ida-se.com

PERMIT SUBMITTAL	12-12-25
PERMIT RESUBMITTAL	02-26-26



ENGINEERING DESIGN COLLABORATIVE  
582 MARKET STREET, SUITE 400  
SAN FRANCISCO, CA 94104

212 9TH STREET, SUITE 203  
OAKLAND, CA 94607

91 GREGORY LANE, SUITE 3  
PLEASANT HILL, CA 94523

(415) 963-4303



## GENERAL NOTES

- EXISTING DEVICE AND EQUIPMENT LOCATIONS HAVE BEEN SHOWN AS A SERVICE TO THE CONTRACTOR AND TO ASSIST WITH BIDDING. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS OF EQUIPMENT AND WIRING CONNECTIONS/DEVICES IN THE FIELD.
- THE CONTRACTOR SHALL REMOVE AND RELOCATE ALL EXISTING DEVICES THAT ARE AFFECTED BY NEW ELECTRICAL EQUIPMENT AND ARCHITECTURAL WALL CHANGES. VERIFY SCOPE OF WORK IN FIELD AND THE DRAWINGS.
- THE CONTRACTOR HAS THE OPTION TO REUSE EXISTING CONDUIT AND BOXES IF BOXES AND EQUIPMENT HAVE SUFFICIENT SIZE AND ARE IN GOOD CONDITION AND FREE OF RUST OR DETERIORATION.
- THE CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS OF THE EXISTING ELECTRICAL INFRASTRUCTURE PRIOR TO SUBMISSION OF BID, IN ORDER TO CAPTURE COMPLETE ELECTRICAL REQUIREMENTS FOR THIS PROJECT, ESPECIALLY WHEN IT INVOLVES REUSING EXISTING ELECTRICAL ITEMS AT THE PROJECT SITE, THUS MITIGATING AND AVOIDING ANY SCOPE OF WORK GAP.
- NEC 514.11(A) EMERGENCY ELECTRICAL DISCONNECTS. FUEL DISPENSING SYSTEMS SHALL BE PROVIDED WITH ONE OR MORE CLEARLY IDENTIFIED EMERGENCY SHUTOFF DEVICES OR ELECTRICAL DISCONNECTS. SUCH DEVICES OR DISCONNECTS SHALL BE INSTALLED IN APPROVED LOCATIONS BUT NOT LESS THAN 20FT OR MORE THAN 100FT FROM THE FUEL DISPENSING DEVICES THAT THEY SERVE. EMERGENCY SHUTOFF DEVICES OF ELECTRICAL DISCONNECTS SHALL DISCONNECT POWER TO ALL DISPENSING DEVICES. TO ALL REMOTE PUMPS SERVING THE DISPENSING DEVICES, TO ALL ASSOCIATED POWER, CONTROL, AND SIGNAL CIRCUITS, AND TO ALL OTHER ELECTRICAL EQUIPMENT IN THE HAZARDOUS (CLASSIFIED) LOCATIONS SURROUNDING THE FUEL DISPENSING DEVICES. WHEN MORE THAN ONE EMERGENCY SHUTOFF DEVICE OR ELECTRICAL DISCONNECT IS PROVIDED, ALL DEVICES SHALL BE INTERCONNECTED. RESETTling FROM AN EMERGENCY SHUTOFF CONDITION SHALL REQUIRE MANUAL INTERVENTION AND THE MANNER OF RESETTling SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION. THE EMERGENCY SHUTOFF DEVICE SHALL DISCONNECT SIMULTANEOUSLY FROM THE SOURCE OF SUPPLY, ALL CONDUCTORS OF THE CIRCUITS, INCLUDING THE GROUNDED CONDUCTOR, IF ANY. EQUIPMENT GROUNDING CONDUCTOR SHALL REMAIN CONNECTED.
- ALL CONDUITS MUST BE THREADED AND MUST BE MADE WRENCH TIGHT. WHERE IT IS IMPOSSIBLE TO MAKE A THREADED JOINT TIGHT, A BONDING JUMPER MUST BE UTILIZED. IF GASOLINE FUEL TANKS ARE GREATER THAN 1,100 GALLON CAPACITY, EXPLOSION PROOF FITTINGS AND CONDUIT MUST BE USED WHERE THEY ENTER OR EXIT CLASSIFIED AREAS.
- FUEL TANK MUST BE MARKED TO DEMONSTRATE THE CLASS, GROUP, AND TEMPERATURE RANGE. TEMPERATURE MARKED ON THE FUEL TANK SHOULD NOT SURPASS 40 DEGREES CELSIUS.
- EMERGENCY CONTACT INFORMATION - AN APPROVED MEANS OF NOTIFYING THE FIRE DEPARTMENT, SUCH AS A READILY ACCESSIBLE TELEPHONE, SHOULD BE PROVIDED ON SITE AND SIGNAGE SHOULD INDICATE ITS LOCATION.

## SHEET NOTES

- THE CONTRACTOR SHALL COORDINATE AND VERIFY WITH FUEL TANK MANUFACTURER REGARDING EXACT LOCATION FOR CONNECTION AND POWER REQUIREMENTS. CONNECTION TO CONTROL PANEL SHALL BE MADE USING CLASS 1 DIVISION 2 COMPLIANT MATERIALS AND ASSEMBLIES. SEAL ALL CONDUITS WITH 'CHICO A' SEALANT OR APPROVED EQUAL LISTED ASSEMBLY.
- REMOVE EXISTING EMERGENCY POWER DISCONNECT AND PROVIDE NEW AS SHOWN AT NEW LOCATION (TO BE MOUNTED A MINIMUM OF 20" FROM FUEL TANK BUT NO FURTHER THAN 100"). INTERCEPT CIRCUIT AND PROVIDE NEW WIRES AND COMPLETE ELECTRICAL ROUGH-IN INFRASTRUCTURE AS REQUIRED FOR COMPLETE NEW ELECTRICAL CONNECTIONS. MATCH EXISTING WIRES.
- PROVIDE TRAFFIC RATED UNDERGROUND PULLBOX "PB" LOCATE PB AS REQUIRED TO INTERCEPT THE RELATED UG RACEWAY SYSTEM BACK TO PANEL "B". THE DESIGNATED CIRCUITS SHALL BE PROPERLY ROUTED TO THEIR RESPECTIVE LOADS. EXTEND RACEWAYS AS REQUIRED TO SOURCE AND LOAD FOLLOWING TRENCH DETAIL.
- EMERGENCY FUEL SHUTOFF STATIONS SHOULD BE CLEARLY MARKED WITH "EMERGENCY FUEL SHUTOFF" IN CLEAR, VISIBLE LETTERS WITH INSTRUCTIONS ON HOW TO OPERATE THE SWITCH. SIGN SHOULD BE EASILY VISIBLE. WEATHER RESISTANT DURABLE.

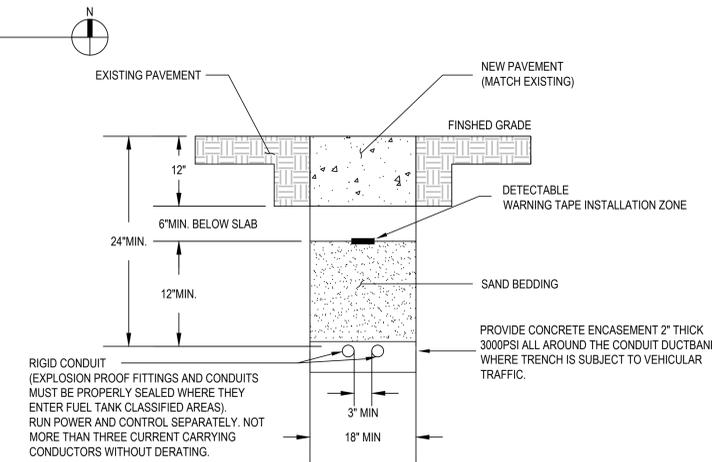
PANEL NAME	B	WAREHOUSE	PHASE	1	VOLTAGE	1000V	VERIFY WITH UTILITY	MLO	100 AMPS			
LOCATION	PHASE	WIRE	3	AC								
CR1	NOTES	TYPE	T	P	DESCRIPTION	LOAD	DESCRIPTION	T	P	TYPE	NOTES	CR2
1	3	2	2		REL. LOAD		USE LOAD	30	1	G		2
3	3	1	1		USE LOAD		USE LOAD	15	1	G		4
5	1	2	2		USE LOAD	0.84	USE LOAD	20	1	G		6
7	1	1	1		USE LOAD	0.84	USE LOAD	20	1	G		8
9	1	2	2		USE LOAD		USE LOAD	20	1	G		10
11	1	1	1		USE LOAD		USE LOAD	20	1	G		12
13	1	1	1		USE LOAD		USE LOAD	20	2	G		14
15	1	1	1		USE LOAD		USE LOAD	5	1	G		16
17	1	1	1		USE LOAD		USE LOAD	15	1	G		18
19	3	1	1		USE LOAD	0.10	USE LOAD	20	1	G		20
21	3	1	1		USE LOAD		USE LOAD	20	1	G		22
23	3	1	1		USE LOAD		USE LOAD	20	1	G		24
25	3	1	1		USE LOAD		USE LOAD	20	1	G		26
27	3	1	1		USE LOAD		USE LOAD	20	1	G		28
29	3	1	1		USE LOAD		USE LOAD	20	1	G		30
31	3	1	1		USE LOAD		USE LOAD	20	1	G		32
33	3	1	1		USE LOAD		USE LOAD	20	1	G		34
35	3	1	1		USE LOAD		USE LOAD	20	1	G		36
37	3	1	1		USE LOAD		USE LOAD	20	1	G		38
39	3	1	1		USE LOAD		USE LOAD	20	1	G		40
41	3	1	1		USE LOAD		USE LOAD	20	1	G		42
PHASE A		0.84	SUBTOTAL		DEMAND CALCULATION							
PHASE B		0.84	0.00	CONTINUOUS LOAD (C) 100%							0.60	
			0.00	DISCONTINUOUS LOAD (D) 100%							0.00	
			0.10	GENERAL LOAD (G) 100% 150' 150' 100VA 50% REST							0.10	
			1.00	LARGEST MOTOR (M) 20%							0.42	
			1.00	MOTOR LOAD (MS) 100%							2.10	
NOTES:			1.00	TOTAL DEMAND							2.62	
				AMPS @ 120VAC							10.92	

TAG	EQUIPMENT	VOLTAGE/PHASE	DISCONNECT	CONTROL	FEEDER SIZE	FEEDER LENGTH (FT)	VOLTAGE DROP (%)	NOTES
FT-1	FUEL PUMP	220 1	20A/CP	EMERGENCY SHUTOFF	3/8" #8 GND	150 (MAX)	2.8 (MAX)	

GENERAL NOTES  
1 SEE PLUMBING EQUIPMENT SCHEDULE SECTION 9-000.



1 ELECTRICAL SITE PLAN  
SCALE: 1/8" = 1'-0"



2 ELECTRICAL TRENCH DETAIL  
SCALE: NOT TO SCALE

PROJECT:  
INSTALLATION OF ABOVE  
GROUND STORAGE TANK AND  
REMOVAL OF UNDERGROUND  
STORAGE TANKS

1201 SECOND STREET  
BERKELEY, CA 94710

SHEET TITLE:

ELECTRICAL  
SITE PLAN

JOB NO.: SHEET NO.:  
DATE: 01-31-2025  
SCALE: AS SHOWN **E0.10**