

COUNTY OF SANTA CRUZ
PLANNING DEPARTMENT
701 Ocean Street, 4th Floor
Santa Cruz, CA 95060
(831) 454-2580

NOTICE OF PENDING ACTION

The Planning Department has received the following application. The identified planner may be contacted for specific information on this application.

APPLICATON NUMBER: 241400** **APN: 046-021-08**
SITUS ADDRESS: 11 Spring Valley Road

Proposal to connect the Renaissance High School to water service from the Soquel Creek Water District. Requires a Coastal Development Permit. Property located at 11 Spring Valley Road in La Selva Beach.

OWNER: Pajaro Valley Unified School District
APPLICANT: Pajaro Valley Unified School District
SUPERVISORIAL DISTRICT: 2
PLANNER: Randall Adams, (831) 454-3218
EMAIL: Randall.Adams@santacruzcountyca.gov

Public comments must be received by 5:00 p.m. July 2, 2026.
A decision will be made on or shortly after July 3, 2026.

Appeals of the decision will be accepted until 5:00 p.m. two weeks after the decision date. If you would like to request a public hearing be held for this item, please contact the project planner listed on this notice.

Information regarding the appeal process, including required fees, may be obtained by phoning (831) 454-2130.

For more information, contact the project planner identified above.

** This project requires a Coastal Zone Permit, the approval of which is appealable to the California Coastal Commission. (Grounds for appeal are listed in the County Code Section 13.20.110.) The appeal must be filed with the Coastal Commission within 10 business days of receipt by the Coastal Commission of notice of local action. Approval or denial of the Coastal Zone Permit is appealable. The appeal must be filed within 14 calendar days of action by the decision body.

Renaissance High School Water System Improvements Project
County of Santa Cruz
Coastal Development Permit Application
February 2025

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100% Plan Set

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Section 2 PLN (Plans) File

100% Plan Set

100% Plan Set

Water System Consolidation

Consolidation of Renaissance High School Water System into Soquel Creek Water District
11 Spring Valley Road, La Selva Beach, CA

Project Team

Water System Design and Engineering
 Craig Drizin
 Weber, Hayes and Associates
 (831) 722-3580

Electrical Engineering
 Tom Pinkerton
 Fehr Engineering Company
 (831) 786-0373

Structural Engineering
 Brock Dickie
 Brock Dickie Engineering
 (408) 410-5336

Survey
 Jeff Nielson
 Mid Coast Engineers
 (831) 724-2580

Geotechnical Engineering - Concrete Slab
 Matt Maciel
 Pacific Crest Engineering
 (831) 722-9446

Project Scope: Install New 12-Inch diameter water supply main from Soquel Creek Water District existing water main at the intersection of San Andreas Road and Sand Dollar Drive to Renaissance High School. Install two service connection lines from the new water main to supply the School with domestic and irrigation water. Connect new water lines to existing distribution system and irrigation system.



Location Map



SUMMARY OF WORK
INSTALL
- 540' 12-inch C900 Water Main
- 325' Domestic Water Line
- 2-inch HDPE
- 3-inch HDPE
- 310' Irrigation Water Line
- 2-inch HDPE
- 3-inch HDPE
PROPERLY DESTROY
Existing Inactive Well-1, 534' Deep 8-inch Well
Existing Active Well-2, 425' Deep 8-inch Well
SEQUENCING
Contractor to determine construction sequencing in a way that minimizes water service disruption to the school.

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(14 SHEETS TOTAL)

LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE ONLY APPROXIMATE. THE EXISTING UTILITIES SHOWN WERE PLOTTED USING INCOMPLETE AND IMPRECISE RECORDS. IT SHOULD BE EXPRESSLY UNDERSTOOD THIS INFORMATION DOES NOT NECESSARILY REPRESENT ACTUAL OR COMPLETE SITE CONDITIONS OR SHOW DETAILS OF EXACT LOCATION, DEPTH OR OTHER CONSTRUCTION FEATURES OF THESE UTILITIES. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, AS TO THE COMPLETENESS OR ACCURACY OF THIS INFORMATION IS SET FORTH HEREIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THIS INFORMATION WITH THE AFFECTED UTILITIES PRIOR TO EXCAVATION. THE CONTRACTOR SHALL CALL "UNDERGROUND SERVICE ALERT" AT 1-800-642-2444 OR 8-1-1 FOR THE MARKING OF UNDERGROUND FACILITIES AT LEAST 2 DAYS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL HAND DIG AND LOCATE ALL UTILITIES THAT MAY BE AFFECTED BY THE NEW FACILITIES IN THIS CONTRACT TO VERIFY ACTUAL DEPTH AND LOCATION OF UTILITIES AND REPORT POTENTIAL CONFLICTS TO THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES WHETHER SHOWN OR NOT AND IS RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES.

DSA

REV.	DESCRIPTION	BY	DATE
0	60% PLAN SUBMITTAL	RP	12/2022
1	80% PLAN SUBMITTAL	RP	12/2023
2	100% DRAFT PLAN SUBMITTAL	RP	01/2025



RENAISSANCE HIGH SCHOOL
 WATER SYSTEM CONSOLIDATION
 11 Spring Valley Rd.
 La Selva Beach, CA 95076

COVER SHEET
 DRAWN BY: RP
 CHECKED BY: CD/SM
 JOB NUMBER: 2T162

SHEET
G1.0

Water System Consolidation

Consolidation of Renaissance High School Water System into Soquel Creek Water District 11 Spring Valley Road, La Selva Beach, CA

GENERAL NOTES

1. QUALIFICATIONS

The Contractor shall possess a Class "A" General Engineering Contractor license under the provisions of the Business and Professions Code of the State of California to do the type of work contemplated and shall be skilled and regularly engaged in the general class or type of work called for under this contract.

2. CODES

Construction and materials shall be in accordance with the California Waterworks Standards, Title 17 and 22 of the California Code of Regulations, Title 24 California Code of Regulations, California Building Code (CBC), the California Plumbing Code (CPC), the Caltrans Standard Plans and Specifications, Division of the State Architect requirements, State Fire Marshall Regulations, National Electrical Code, Americans with Disabilities Act, all other State and Federal laws, all locally enforced codes and authorities, the County, and Soquel Creek Water District Design Criteria. Should the Contractor discover work within the Plans not in conformance with these requirements, Contractor shall immediately submit a written Request for Information (RFI) to the Owner's Representative.

3. STANDARD SPECIFICATIONS

All wetted components must be NSF 61 certified. Construction must comply with the California Waterworks Standards, Title 17 and 22 of the California Code of Regulation, Soquel Creek Water District Standard Plans and Specifications, and Santa Cruz County Design Criteria.

Should the Contractor discover work within the Plans not in conformance with these requirements, Contractor shall immediately submit a written Request for Information (RFI) to the Owner's Representative.

4. PERMITS

Contractor shall obtain encroachment permits and well destruction permits, as appropriate, from the County of Santa Cruz Department of Public Works at 701 Ocean Street, Room 410, Santa Cruz, CA 95060

Contractor shall inform themselves of, and fully adhere to the rules regulations and requirements of all governmental agencies having jurisdiction over the work, and all federal, state, and local laws, codes, and regulations regarding construction activity. Contractor shall investigate and procure any and all permits that may be required on the project.

Per the SCC-RTC pipeline occupancy agreement (and prior to the commencement of work), the contractor shall provide their "General Liability", "Auto Insurance", and "Workman's Compensation" documents to SCC-RTC. Contractor shall also obtain additional endorsement for working w/in 50-ft of railroad or Railroad Protective Liability Insurance (this only required during construction phases). SCC-RTC has previously approved the "pipeline-occupancy-agreement-required" design plans associated with work proposed within the SCC-RTC right of way.

Contractor to assume that soil excavated from the sending / receiving pits and horizontal jack and bore is contaminated (i.e., with railroad-related contaminants). Santa Cruz County Environmental Health Division (SCC-EHD) requires a pre-approved soil sampling work plan and a dust monitoring plan to perform this work. Contractor shall procure the corresponding soil sampling permit with SCC-EHD. Design engineer has evaluated the scope of work for this permit. Contractor may reach out to design engineer (Weber, Hayes & Associates) for further information. Contractor shall have soil properly tested / characterized for contaminants, then based on these results - haul the soil to SCC-EHD approved landfill. Contractor shall have Pollution Liability Insurance to transport contaminated soil to the approved landfill.

Excavation shoring plans may need to be reviewed by SCC-RTC. Contractor to ask SCC-RTC if this is required, and provide written documentation of SCC-RTC's response to the owner's engineer. If required, then contractor to complete the shoring plan review process with SCC-RTC.

5. SITE SAFETY

The Contractor agrees that in accordance with generally accepted construction practices, Contractor will be required to assume sole and complete responsibility for job site conditions, construction means, methods and techniques, and for safety measures, precautions, and programs at the project site during the course of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal work hours. It shall be the Contractor's sole responsibility to design and provide adequate trench and excavation shoring, bracing, formwork, scaffolding, temporary structures, etc., as required for the protection of life and property during construction. Contractor to take necessary precautions against sewage, gases, solvents, compounds, acids, preservatives, fuels, and other hazardous materials. All construction shall be performed in conformance with Cal/OSHA requirements. Fire safety during construction and demolition shall be enforced in accordance with California Building Code (CBC) and California Fire Code (CFC) Chapter 33. The Contractor agrees to defend, indemnify, and hold the Design Engineer of Record harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting liability rising from the sole negligence of the Design Engineer of Record.

6. PUBLIC SAFETY

The Contractor shall provide for the safety of traffic and the public in accordance with the provisions of Section 7-1.04 of the Caltrans Standard Specifications whenever the Contractor's operations create a hazardous condition including, but not limited to, fencing, railing, barricades, lights, signs, and other devices to prevent accidents, damage, or injury to the public.

7. SCOPE

The Contractor shall examine carefully the site of work and thoroughly review the Plans and Specifications. The submission of a bid shall be conclusive evidence that the contractor has investigated the site and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of work to be performed, the quantities of materials to be furnished, and as to the requirements of the Plans and Specifications. The Contractor shall make a detailed and thorough study of these Plans and Specifications in their entirety prior to any work on the jobsite. The Contractor is to coordinate these drawings with all other trade disciplines for the completed work.

8. INTENT

It is the intent of these Plans and General Notes/Specifications that the work shall result in complete, finished, operating, satisfactory, and functional systems and no extra compensation will be allowed for anything omitted but fairly implied for systems' function. Where detail references in the Plans have been omitted, the Contractor is deemed to have estimated the best quality detail. In the event certain features of the construction are not fully shown or detailed on the plans, their construction shall be as shown on the plans or details for similar best quality features. All typical details shall apply unless noted otherwise. The Owner's Representative best quality interpretation is deemed to control.

9. PRECEDENCE

All figured dimensions shall take precedence over scaled measurements. Should a conflict or inconsistency occur in or between the Plans and the Specifications, the Plans shall control over the Specifications.

10. ADDENDA

If discrepancies, apparent errors, or omissions are found in the Plans or Specifications, or any differences are found between the Plans and conditions in the field, the Contractor shall submit a written Request For Information (RFI). If the Contractor proceeds with the work affected without instructions from the Owner's Representative, the Contractor shall make good any resulting damage or defect to the satisfaction of the Owner's Representative. Any request for alterations or substitutions must be presented directly to the Owner's Representative in writing, accompanied by a detailed sketch and/or photograph as required, for review, before any approval will be given and before proceeding with the work.

11. VERIFICATION

The Contractor shall be responsible for field-verifying all existing conditions, dimensions, levels, and materials for all layout and construction work and shall submit a Written Request for Information (RFI) to the Owner's Representative to resolve any discrepancies before proceeding with the work. The Contractor shall adjust, correct, and coordinate the work so that no discrepancies result.

11.1. Contractor to field verify depth of existing AC water main at Sand Dollar Drive. Report depth and or discrepancy to engineer and owner in writing.

12. NOTICE TO PROCEED

No work shall commence without an official notice to proceed from the Owner.

13. EXISTING FACILITIES

Contractor shall protect all existing facilities and shall repair all damaged areas to original or better condition. Contractor shall do all cutting, fitting, or patching of their work that may be required to make its several parts fit together properly and shall not endanger any other work by cutting, or otherwise altering the total work or any part of it. Contractor shall exercise care to protect any existing construction so that integrity and finish are not impaired. All patching, repairing, and replacing of materials and surfaces cut or damaged in execution of work shall be done with appropriate materials so the surfaces replaced will, upon completion, match surrounding similar surfaces.

14. HOUSEKEEPING

The job site shall be maintained daily in a neat, clean, orderly condition free of debris and litter, and shall not be unreasonably encumbered with any materials or equipment. Materials stored on the site shall be properly stacked and protected to prevent damage and deterioration until use. All Water pipe shall be stored elevated above ground and/or on plastic. Care shall be taken to keep water pipe as clean as possible prior to installation. Failure to protect materials may be cause for rejection of work. Dust shall be controlled and mud and debris shall be cleaned off public right of ways.

15. WORKING HOURS

Normal working hours shall be limited to times as directed by Renaissance High Continuation and the County of Santa Cruz and no work shall be done on Sundays or legal holidays unless written permission is given.

16. SUBMITTALS

16.1. No work shall commence with unapproved materials. Submittals and shop drawings shall be supplied to the Owner's Representative for review for the following:

- a. All material and equipment items
- b. Traffic Control Plan
- c. Heat Used Pollution Control Plan
- d. Utility Interruption Plan

16.1.1. The Contractor shall supply submittals sufficiently detailed to demonstrate compliance with the Plans and Specifications. Each submittal shall be sequentially numbered, dated, titled, and checked by the Contractor. The Owner's Representative will require 10 days for review. The Contractor's responsibility for errors, omissions, and deviations is not relieved by the submittal review.

16.2. The following submittals are required by the Contractor for review and approval by the Santa Cruz County Regional Transportation Commission (SCCRTC) prior to the commencement of work

16.2.1. Contractor required to obtain Contractor's Right of Entry (CRE) Agreement by and between the SCCRTC and the contractor performing the work on behalf of a Licensee

16.2.2. Contractor required to obtain CRE Agreement from the freight operator (current freight operator is St. Paul & Pacific Railroad, LLC)

16.2.3. A track monitoring plan is required

16.2.3.1. Track monitoring to detect any movement of track rails during the jack and bore process will be required, including a baseline survey of the rails prior to construction, a resurvey of the rails immediately after construction, and a subsequent resurvey once train live loadings have passed over the site several times. Track monitoring points will be identified with appropriate survey marks on the rails and will be spaced at 10' intervals on each rail for a length of 100' centered over the new utility. Surveys are to be completed by a licensed surveyor.

16.2.4. A jack and bore plan is required, see 20.13

16.2.5. A traffic control plan is required if any type of closure of a road is planned during construction

16.2.6. An on-track equipment plan is required if any on-track equipment are planned to be used during construction

17. ELECTRICAL SERVICE

Contractor is responsible for all electrical wiring for two booster pump connections including: instruments, pumps, electrical subpanel, etc.

Once fully installed, contractor shall have a properly licensed electrical engineer perform a "Load Bank Test" on the proposed 20-kW diesel generator, to demonstrate that the generator provides "public utility quality power", indicated as +/- 5% Voltage (from nominal).

18. OBSERVATION

Contractor shall notify the Owner's Representative 48 hours in advance for the following observations:

- a. Utility pipe pressure and leakage testing
- b. Utility pipe and conduit prior to backfill
- c. Reinforcing steel prior to concrete placement

Backfilling of a trench prior to inspection and approval may require re-excavation of the trench, if directed by the Owner's Representative, for the purpose of inspecting the main.

19. UNDERGROUND UTILITIES

Contractor shall coordinate new underground piping, connections to existing piping and electrical conduits.

SPECIFICATIONS

20. PRODUCTS

All components touching wetted surfaces must be NSF/ANSI 61 Certified
Engineer must approve any component substitutions

20.1. Booster Pumps (See Sheet 5.2, Detail 1)

20.1.1. MPCE2 CME5-5 Duplex BOOSTERPUMP by Grundfos W(12) ZHP 3x208-230V Integral VFD pump for 50gpm at 173' tds system requirements, connected to a 316SS manifold, mounted on a SS skid

20.1.2. Amtrol 80 Gal "WX" Series Well-X-Trol ASME 125 PSIG Pressure Tanks w/ seismic restraints

20.1.3. Amtrol 53 Gal D-7 DIATROL D-Series Surge Tanks

20.1.4. Contractor to paint the pressure tanks with one coat of outdoor rated paint (i.e., outdoor rated paint to be painted over the factory painted primer coat)

20.1.5. Install weather enclosure (Safe-T-Cover 800D-AL) over booster pump pad to protect pump assemblies

20.2. Backflow Prevention Assembly

20.2.1. BFP shall be Zurn/Wilkins Model 350A Double Check Detector Assembly or approved substitute

20.2.2. See Sheet 5.1, Detail 1 (SqCWD Detail S-19)

20.3. Pipe Materials (SqCWD Spec 301.02)

20.3.1. The 12-inch water main shall be polyvinyl chloride (PVC) pipe conforming with AWWA C900.

20.3.1.1. Pipeline bell and spigot deflection (horizontal and vertical) shall not exceed 75% of the manufacturer's maximum joint deflection, and shall not exceed 1 degree at any bell and spigot maximum.

20.3.2. 2- and 3-inch service lines shall be constructed of virgin polyethylene material conforming with AWWA C901 for Pressure Class 200 and Dimension Ratio (DR) 9.

20.3.3. Fittings: Service line polyethylene fittings shall be heat-fused fittings or red brass conforming with Section 302.02.02 of SqCWD Specifications. Transmission pipeline fittings shall be ductile iron in accordance with AWWA C110, C111 and C153.

20.3.4. Water pressure test to be conducted for the 3-inch polyethylene lines. Heat fused polyethylene joints to be constructed by certified trained contractor.

20.3.5. Galvanized steel water lines to be used for above ground sections of service line pipe

20.4. Gate Valves (SqCWD Spec 307.02)

20.4.1. 12-inch water main resilient wedge gate valves (RWGV) shall meet or exceed all applicable requirements of current revision of ANSI/AWWA C515. They shall be UL listed, FM approved and certified to ANSI/NSF 61 & 372. RWGV shall be NRS (non-rising stem) and shall have

Type 316 SS bolts and nuts for the stuffing box and bonnet.
20.4.2. 12-inch RWGVs shall be Mueller A-2361 or approved equal.

20.4.3. Gate valves on 2-inch and 3-inch service lines shall be threaded, iron body, bronze mounted, resilient seat type with non-rising stem, conforming with AWWA C509 and SqCWD Standard Specifications regarding mechanical schedule of materials.

20.5. Control Valves (SqCWD Spec 307.04)

20.5.1. Operating pressure rating class 150. Check valves shall be Cla-Val Company Model 81-02. Pressure relief, pressure sustaining and back pressure valves shall be Cla-Val Company Model 50-01.

20.6. Tapping Sleeves (SqCWD Spec 303.05.05 & 302.02.03)

20.6.1. Tapping sleeves shall be Romac SST® Stainless Steel Tapping Sleeves, Smith-Blair 662-663 Series tapping sleeves, or approved substitute.

20.6.2. A shell cutter or hole saw type cutter will be required for use on PVC pipelines

20.7. Mechanical Restraints (SqCWD Spec 304)

20.7.1. For PVC pipe, the restraint shall be accomplished by the use of a restraint harness bridging the push-on bell. This harness shall be so designed as to prevent the harness bolts from contacting the outside of the bell. The harness shall be Megalug® Series 1500 by EBAA IRON SALES, INC., UNI-FLANGE Series 1390, or approved substitute.
20.7.2. Assembly of megalug joint restraints shall follow printed instructions, including lubricating the gasket fully and spigot side of the PVC pipe, tightening the bolts to specified torque and repeating the tightening process in a star pattern until all bolts are within the appropriate range of torque.

20.8. Hardware

20.8.1. All pipeline and appurtenance hardware shall be 316 SS, including megalug T-bolts and valve hardware, and flange bolts.

20.9. Underground Pipe Markers

20.9.1. All PVC and polyethylene pipe to be installed with minimum 12 gauge THW or THWN locator wire continuous for the entire length of pipe laid.

20.10. Shared Trench Spacing of Pipe

20.10.1. Shared trench water line spacing should be a minimum of 3-inches apart

20.10.2. Water line spacing through steel casing should be 2-inches apart

20.11. Bedding and Cover Materials

20.11.1. Except for meter boxes or valve boxes, all precast structures shall be bedded on a minimum of 6-inches of clean sand or aggregate base rock compacted to 95% relative compaction. The excavation, including that for valve boxes, shall then be backfilled with a sand-cement slurry mix in accordance with SqCWD Spec 309.
20.11.2. Bedding material shall be placed to a minimum depth of 4-inches below and 12-inches above all pipe, fittings, valves and structures. Bedding material shall be clean, washed granular material derived from decomposed or crushed rock and free of organic material, mica, clay, silt, oils and other deleterious material. Sand bedding shall have a maximum particle size of 1/4-inch with a gradation that allows 90 to 100 % to pass a No. 4 sieve and not more than 5% to pass a No. 200 sieve

20.11.3. Paving to comply with County of Santa Cruz Details: EP-1, EP-2, EP-3, EP-4, and EP-6

20.11.4. Maximum hot mix asphalt lift shall be 2-inches

20.12. Casing and Duct Installation (SqCWD Spec 306)

20.12.1. Distribution pipeline under the railroad tracks shall be installed within a steel casing using jack and bore method with a pilot test hole for greater spatial accuracy. Jack and bore process will be non-stop, continuous from pit to pit

20.12.3. No sloping cuts will be allowed for the sending and receiving pits; shoring is required to support OSHA standard loads

20.12.4. Steel casing shall comply with AWWA C200, have a specified minimum yield strength of at least 35,000 psi, and a minimum wall thickness of 0.25 inches

20.12.5. Construction, and operation and maintenance, shall not interfere with railroad operations

20.12.6. Contractor to: (1) incorporate cathodic protection / sacrificial anodes into the 12-inch steel casing to protect against corrosion; (2) install an permanent anode test station so that the anode condition can be monitored for the next 50-years

20.12.7. Excavation shoring plans may need to be reviewed by SCC-RTC. Contractor to ask SCC-RTC if this is required, and provide written documentation of SCC-RTC's response to the owner's engineer. If required, then contractor to complete the shoring plan review process with SCC-RTC

20.12.8. Contractor to replace and restore to original condition the pavement in the sending pit area.

20.13. Pipeline Installation

20.13.1. Install pipe to allow for expansion and contraction without stressing pipes or joints

20.13.2. The cutting of pipe shall ensure no damage to the pipe so as to leave a smooth end at right angles

20.13.3. While laying pipe, precautions shall be taken to prevent foreign material from entering the pipe. When pipe laying

is not in progress, the open ends of the pipe shall be closed by a water tight plug. No pipe shall be laid in water.

20.14. Conduit and Wireways

20.14.1. See Sheet E1.1, Notes 27 - 42

21. PIPELINE TESTING AND FLUSHING

21.1. Testing in accordance with AWWA C-600 amended as follows: Remove all air from pipeline: Hydrostatic pressure test to 150 psi minimum at highest point in pipeline, with pressure at low point not exceeding pressure rating of pipe, 4 hr duration, pressure loss must not exceed 5 psi, no make up water allowed.
21.2. Pipeline shall be flushed at 3 ft/s minimum for 2x pipe volume.

22. DISINFECTION OF WATER PIPING SYSTEM

22.1. All water piping shall be chlorinated and disinfected per AWWA C651: Disinfecting Water Main.
22.2. Where determined by the Engineer, the Contractor shall provide taps and shall install corporation stops in the pipelines for the introduction of the chlorine solution and for sampling purposes at no cost to the owner.
22.3. The minimum time for the laboratory test is 48 hours, and no connections to existing lines of services shall be made until the pipeline has passed the laboratory tests.

22.4. Samples shall be gathered and tests conducted by the Project Engineer or their designee. Samples shall be taken at representative points as required by the Engineer. The new facilities shall remain isolated and out of service until satisfactory test results have been obtained which meet the requirement of the Division of Drinking Water and the Engineer has accepted the results as indicative of the bacteriological condition of the facilities. If unsatisfactory or doubtful results are obtained from the initial sampling, the disinfection process shall be repeated until acceptable test results are reported. The follow-up disinfection and sampling costs shall be borne by the Contractor.

WELL DESTRUCTION

23. WELL-1 AND WELL-2 DESTRUCTION

23.1. Well-1 and Well-2 shall be destroyed in accordance with Department of Water Resources California Well Standards / Bulletin 74 and the County of Santa Cruz Guidelines by C-57 Licensed Well Driller

23.2. Destruction without blasting is preferred. If blasting is necessary, a blasting plan and track monitoring plan should be submitted for review to SCCRTC. Predicted intensity of the blast wave at the well distance from railroad tracks should be provided. Blasting date and time must be coordinated with SCCRTC

23.3. Obtain well destruction permits from the County of Santa Cruz Environmental Health Department prior to commencing field work

23.4. Contractor shall submit California Department of Water Resources Well Completion Report documenting proper well destructions. Well Completion Reports may be submitted on-line. Contractor to provide copies to Project Engineer and Owner

SOQUEL CREEK WATER DISTRICT NOTES:

All public waterworks related construction shall be performed in accordance with the standard specifications, standard plans and the directions of the chief engineer of the Soquel Creek Water District. A copy of the soquel creek water district standard specifications and standard plans shall be available on the jobsite at all times. These can be found on the web at www.soquelcreekwater.org/550/plans-specs

The contractor shall notify the chief engineer of the Soquel Creek Water District a minimum of 2 working days prior to commencing the work.

The contractor shall schedule all inspections with the Soquel Creek Water District a minimum of 24 hours in advance of needing such inspection. No facility is to be backfilled until inspected by the Soquel Creek Water District.

Only authorized personnel of the Soquel Creek Water District shall operate existing distribution system valves.

System shutdowns for the interconnection of new improvements to the existing system shall be scheduled with the Soquel Creek Water District a minimum of three working days in advance for residential areas and 5 working days in advance for commercial areas.

Contractor shall bevel all 10-inch and 12-inch PVC on inside when connecting to 10-inch and 12-inch butterfly valves.

Contractor to verify with engineer the final location of all meters and main line if different than shown on these plans.

Contractor shall abandon all existing valves on abandoned water mains in-place (unless shown otherwise on these plans). Remove valve box and extension, backfill and repair per SqCWD s-14. All open pipe shall be filled with 6-ft concrete plug.

The top of the finished pipe shall be a minimum of 42-inches of cover from the finished grade, unless indicated otherwise on these plans.

A district approved disinfection and flushing plan shall be required by the contractor.

Contractor shall be required to attend a preconstruction meeting with the Soquel Creek Water District prior to construction to go through

project requirements, and shall be prepared to schedule for subsequent progress meetings as they relate to water system construction.

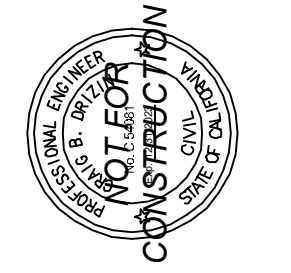
All buried nuts and bolts shall be 316 stainless steel.

All 12-inch water main shall be mechanically restrained 80-ft minimum from any valve. All 8-inch water main shall be mechanically restrained 50-ft minimum from any valve. Minimum restraint length for all other valves and fittings is 40-ft.

All water main trenches shall be backfilled per SqCWD standard plans S-14 & S-15, or per Santa Cruz County requirements. Native backfill is not allowed.

Contractor shall transmit material submittals to the district inspector/engineer at least 15 working days before the start of work on district infrastructure to allow for review. Contractor cannot begin construction of district infrastructure until material submittals have been favorably reviewed.

REV	DESCRIPTION	DATE
1	60% PLAN SUBMITTAL	12/2022
2	90% PLAN SUBMITTAL	12/2023
3	100% DRAFT PLAN SUBMITTAL	01/2025



RENAISSANCE HIGH SCHOOL WATER SYSTEM CONSOLIDATION

11 Spring Valley Rd.
La Selva Beach, CA 95076

GENERAL NOTES

DRAWN BY: RP
CHECKED BY: CD/SM
JOB NUMBER: 2T162

SHEET
G2.0

Water System Consolidation

Consolidation of Renaissance High School Water System into Soquel Creek Water District 11 Spring Valley Road, La Selva Beach, CA

ENVIRONMENTAL

- If field indications of hazardous materials or contamination (odor or soil staining) are encountered during field work, immediately stop work and contact the County of Santa Cruz Environmental Health Department at (831) 454-2022. Also notify the project engineer.
- Soil from excavations near the railroad crossing shall be characterized and properly disposed of in accordance with County standards.

Construction Noise

- All equipment shall be properly maintained and all internal combustion engine-driven equipment shall be equipped with intake and exhaust mufflers that are in good condition and appropriate for the equipment. Equipment engine shrouds shall be closed during equipment operations. The applicant shall require all contractors, as a condition of contract, to maintain and tune-condition all construction equipment to minimize noise emissions. Additionally, all stationary noise generating equipment (e.g., compressors) and equipment staging areas shall be located as far as possible from adjacent residential receivers.
- The project contractor shall designate a "disturbance coordinator" responsible for responding to any complaints about construction noise. The disturbance coordinator will be responsible for notifying neighboring residences of planned construction schedules at least 72 hours in advance. The disturbance coordinator's telephone number shall be posted at the project site and included in the notice. All noise complaints shall be sufficiently examined and promptly addressed.

Vehicle speed reduction and dust control

- During construction, use water trucks or sprinkler systems to keep all areas of vehicle movement damp enough to prevent dust from leaving the site. At a minimum, this should include wetting down such areas in the late morning and after work is completed for the day. Increased watering frequency should be required whenever the wind speed exceeds 15 miles per hour. Reclaimed water should be used whenever feasible.
- Minimize amount of disturbed area and reduce on site vehicle speeds to 15 miles per hour or less on unpaved areas.
- If importation, exportation, and/or stockpiling of fill material is involved, soil stockpiled for more than two days shall be covered, kept moist, or treated with soil binders to prevent dust generation. Trucks transporting fill material to and from the site shall be tarped from the point of origin.
- Gravel pads shall be installed at all access points to prevent tracking of mud onto public roads.
- After clearing, grading, earth moving or excavation is completed, treat the disturbed area by watering, or revegetating, or by spreading soil binders until the area is paved or otherwise developed so that dust generation will not occur.
- The contractor or builder shall designate a person or persons to monitor the dust control program and to order increased watering, as necessary, to prevent transport of dust offsite. Their duties shall include holiday and weekend periods when work may not be in progress. The name and telephone number of such persons shall be provided to the Monterey Bay Air Resources District (MBARD) prior to grading/building permit issuance and/or map clearance.

Biological

- Every individual working on the Project must attend biological awareness training prior to working on the job site. The training shall be delivered by a qualified biologist and shall include, at minimum, information regarding the following:
 - Location and identification of sensitive habitats and all special-status species with potential to occur in the survey area including information specific to identifying the special-status species identified above, the habitat for these species, and the project specific measures being implemented to protect these species.
 - The importance of avoiding impacts to special-status species and their habitat, and the steps necessary if any special-status species is encountered at any time.
 - Identification of the limits of work, and project-specific avoidance measures and permit conditions that must be followed.
- Disturbance of Monterey pine forest, oak woodland, and scrub vegetation and removal of native trees within these habitats shall be avoided to the maximum extent possible.
- Native vegetation that cannot be avoided shall be cut at ground level rather than removed by the roots when possible.
- Prior to commencement of construction, high visibility fencing and/or flagging shall be installed, with the assistance of a qualified biologist, to indicate the limits of work and the boundaries of sensitive habitat areas to be avoided.
- If any special-status species is identified in the project impact area at any time prior to or during construction, work shall cease immediately in the vicinity of the individual. The animal shall either be allowed to move out of harm's way on its own or a qualified biologist shall move the animal out of harm's way to a safe relocation site pursuant to all species-specific restrictions and regulations.
- During initial clearing, grubbing, and grading within the Monterey pine forest, oak woodland, and scrub habitat, a qualified biologist shall be present to conduct daily monitoring activities to ensure compliance with measures are in place for protection of special status species that may be encountered. After initial clearing,

grubbing and grading has been completed, an alternate construction monitor may be trained and designated for execution of daily monitoring activities.

- Daily monitoring by the project biologist or construction monitor shall occur for the duration of project construction within the Monterey pine forest, oak woodland, and scrub habitat. Daily monitoring activities shall include the following at minimum:
 - Monitoring the work area for the presence of special-status species and verifying that individuals are properly relocated out of harm's way as needed, pursuant to all species-specific restrictions and regulations.
 - Monitoring the exclusionary fencing at the project site to verify good working condition and prevent wildlife entrapment.
 - Checking under all equipment for wildlife before use.
 - Verifying that at the end of each workday, all excavations shall be secured with a cover, or a ramp installed to prevent wildlife entrapment.
 - All trenches, pipes, culverts or similar structures shall be inspected for animals prior to burying, capping, moving, or filling.
- During project activities, all trash that may attract predators shall be properly contained, removed from the work site, and disposed of regularly. Following construction, all trash and construction debris will be removed from work areas.
- To avoid/minimize impacts to special-status amphibians, including California Tiger Salamander (CTS), Santa Cruz Long Toed Salamander (SCLTS), and California Red Legged Frog (CRLF), the following measures shall be adhered to:
 - The project applicant will comply with the California Endangered Species Act (CESA) and will coordinate with the California Department of Fish & Wildlife (CDFW) to determine whether incidental take authorization for CTS, and SCLTS is required prior to issuance of a grading permit. If it is determined that authorization for the incidental take of these species is required from the CDFW, the project applicant will comply with the CESA to obtain a 2081 incidental take permit from CDFW prior to the issuance of a grading permit. Permit requirements typically involve the preparation and implementation of a mitigation plan and mitigating impacted habitat at a 3:1 ratio through preservation and/or restoration. The project applicant would be required to retain a qualified biologist to prepare a mitigation plan, which will include, but is not limited to, identifying avoidance and minimization measures, and identifying a mitigation strategy that includes a take assessment, avoidance and minimization measures, compensatory mitigation lands, success criteria, and funding assurances. The project applicant would be required to implement the approved plan and any additional permit requirements.
 - The project will comply with the ESA and conduct consultation with the United States Fish & Wildlife Service (USFWS) to determine whether incidental take authorization for CTS, SCLTS, and CRLF is required prior to issuance of a grading permit. If it is determined that authorization for the incidental take of these species is required from the USFWS, the project will comply with the ESA to obtain Section 7 or Section 10 authorization from USFWS at the project-level prior to the issuance of a grading permit. Permit requirements typically involve the preparation and implementation of a mitigation plan and mitigating impacted habitat at a 3:1 ratio through preservation and/or restoration. The project applicant would be required to retain a qualified biologist to prepare a mitigation plan, which will include, but is not limited to, identifying avoidance and minimization measures, and identifying a mitigation strategy that includes a take assessment, avoidance and minimization measures, compensatory mitigation lands, success criteria, and funding assurances. The project applicant would be required to implement the approved plan and any additional permit requirements.
 - A qualified biologist will survey the proposed work area and immediately adjacent areas 48 hours before and the morning of the onset of work activities for the presence of special-status amphibians. If any life stage of CTS, SCLTS, or CRLF is observed, construction activities will not commence until CDFW/USFWS is consulted and appropriate actions are taken to allow project activities to continue.
 - During ground disturbing and vegetation removal activities, a qualified biologist shall survey appropriate areas of the construction site daily before the onset of work activities for the presence of special-status amphibians. The qualified biologist shall remain available to come to the site if a special-status amphibian is identified until all ground disturbing activities are completed. If any life stage of CTS, SCLTS, or CRLF is found and these individuals are likely to be killed or injured by work activities, the qualified biologist shall be contacted, and work shall stop in that area until the special-status amphibian has moved on its own out of the work area and the USFWS has been contacted. Construction activities will not resume until the USFWS is consulted and appropriate actions are taken to allow project activities to continue.

e. After ground disturbing and vegetation removal activities are complete, or earlier if determined appropriate by the qualified biologist, the qualified biologist will designate a construction monitor to oversee on-site compliance with all avoidance and minimization measures. The qualified biologist shall ensure that this construction monitor receives sufficient training in the identification of special-status amphibians. The construction monitor or the qualified biologist is authorized to stop work if the avoidance and/or minimization measures are not being followed. If work is stopped, the USFWS shall be notified. The qualified biologist and the construction monitor shall complete a daily log summarizing activities and environmental compliance throughout the duration of the proposed project.

f. Only tightly woven fiber netting or similar material may be used for erosion control at the project site. Coconut coir matting is an acceptable erosion control material. No plastic mono-flament matting will be used for erosion control, as this material may ensnare wildlife, including special-status amphibians.

g. Because dusk and dawn are often the times when special-status amphibians are most actively foraging and dispersing, all construction activities should cease one half hour before sunset and should not begin prior to one half hour after sunrise.

h. To avoid or minimize impacts to special-status amphibians and their habitat, suitable habitat (i.e., ruderal areas, Monterey pine forest, oak woodland, scrub) shall be avoided to the greatest extent feasible. In addition to the high visibility fencing described above, amphibian specific wildlife exclusion fencing will be installed around the perimeter of the project work area, where suitable habitat is present, to prevent special-status amphibians from migrating into the project area during the breeding season. A qualified biologist will supervise the installation of exclusion fencing. The status of the fencing will be monitored in accordance with above measures.

- To protect San Francisco dusky-footed woodrat, a qualified biologist shall implement the following protection measures:
 - Within two weeks prior to commencement of development activities (including clearing and grubbing) a qualified biologist shall survey the project disturbance area to identify any woodrat nest locations that may be affected by the proposed development. All woodrat nests within the construction impact area and a 25-foot buffer shall be clearly flagged.
 - If no woodrat nests are found during the survey, no further avoidance and minimization measures for this species are necessary.
 - If woodrat nests are found, the construction contractor shall avoid the nests to the extent feasible by installing a 25-foot buffer with protective fencing or other material that shall prohibit encroachment. A reduction in the size of this buffer, or encroachment into this buffer, may be allowed if the biologist determines that microhabitat conditions such as shade, cover and adjacent food sources can be retained.
 - If avoidance of woodrat nests is not possible, a qualified biologist shall develop and implement a Woodrat Relocation Plan to be implemented prior to the commencement of construction. The plan shall include the following:
 - Trapping efforts and relocation activities shall not take place during low night temperatures (below 40 degrees Fahrenheit), inclement or extreme weather conditions.
 - If no San Francisco dusky-footed woodrats are captured at a given nest, it shall be dismantled by hand to ground level, and the woody debris spread to reduce rebuilding.
 - For occupied nests, the existing woodrat nest shall be dismantled and the woody debris, including cached food and nesting material, carried to the nearest suitable relocation site outside the project footprint and used to build an artificial shelter.
 - Sites for artificial shelters shall be located as near as possible to the original nest location and no closer than 20 feet from existing woodrat nests and other artificial shelters. Choose the best available microhabitat, ideally in a location with sun and shade and if possible under the same species of tree or shrub as was present at the original nest location. Relocation sites shall contain biologically-suitable habitat features (e.g. stands of poison oak, coast live oaks, and dense native brush).
 - When releasing woodrats, the occupied live-trap shall be placed against the entrance to the artificial shelter, opened, and the woodrat allowed to enter, ideally on its own accord. After the individual enters, the entrance shall be loosely but completely plugged with dirt and leaf duff to encourage it to stay, at least for the short-term.
 - If occupied nests were relocated, monitoring shall be conducted for 30 days after relocation is completed and include infrared and motion activated cameras, or other monitoring methods, and an occupancy assessment. A report on San Francisco dusky-footed woodrat nest monitoring shall

be provided to County Environmental Planning within 30 days following the end of the monitoring period and shall include the methods and results of trapping and relocation, occupancy determinations, monitoring methods, and discussion of any remedies that may be needed.

- To avoid/minimize impacts to nesting birds the following measures shall be adhered:
 - If removal of trees/vegetation, grading activity, or other use of heavy equipment begins outside of the February 1 to August 31 breeding season, there will be no need to conduct a preconstruction survey for active nests.
 - If removal of trees/vegetation, grading activity, or other use of heavy equipment is to commence between February 1 and August 31, a survey for active bird nests shall be conducted by a qualified biologist within two weeks prior to the start of such activity. The survey area shall include the survey area, and a survey radius around the survey area of 50 feet for MBTA birds and 250 feet for birds of prey.
 - If no active nest of a bird of prey or MBTA bird is found, then no further avoidance and minimization measures are necessary.
 - If active nest(s) of Migratory Bird Treaty Act (MBTA) birds or birds of prey are found in the survey area, the following avoidance buffers shall be adhered to unless otherwise advised by CDFW or USFWS: avoidance buffer of 50 feet for MBTA birds and 250 feet for birds of prey shall be established around the active nest(s). The biologist shall monitor the nest and advise the applicant when all young have fledged the nest. Removal of vegetation, grading activity, or other use of heavy equipment may begin after fledging is complete.
 - If the biologist determines that a smaller avoidance buffer will provide adequate protection for nesting birds, a proposal for alternative avoidance/protective measures, potentially including a smaller avoidance buffer and construction monitoring, may be submitted to USFWS and CDFW for review and approval prior to removal of vegetation, grading activity, or other use of heavy equipment.
 - If removal of vegetation, grading activity, or other use of heavy equipment stops for more than two weeks during the nesting season (February 1 - August 31) a new survey shall be conducted prior to re-commencement of construction.

- To avoid/minimize impacts to special-status bats the following measures shall be adhered to:
 - To the extent practical limbing/tree removal operations should occur between September 15 and November 1 to avoid bat maternity roosts and winter hibernacula. If tree limbing/tree removal operations must occur outside the period of September 15 through November 1 a survey for bats shall be conducted by a qualified biologist.
 - Prior to commencement of construction related activities including tree trimming and removal, a qualified biologist shall conduct a pre-construction survey for bats as follows:
 - The biologist shall determine if bats are utilizing the site for roosting. For any trees/snags/buildings that could provide roosting space for cavity or foliage-roosting bats, potential bat roost features shall be thoroughly evaluated to determine if bats are present. Visual inspection and/or acoustic surveys shall be utilized as initial techniques.
 - If roosting bats are found, the biologist shall develop and implement acceptable passive exclusion methods in coordination with or based on CDFW recommendations. If feasible, exclusion shall take place during the appropriate windows (September 15 and November 1) to avoid harming bat maternity roosts and/or winter hibernacula. (Authorization from CDFW is required to evict winter hibernacula for bats).
 - If established maternity colonies are found, a buffer shall be established around the colony to protect pre-volant young from construction disturbances until the young are no longer reliant upon the roost for survival.
 - If a tree is determined not to be an active roost site for roosting bats, it may be immediately limbed or removed as follows:
 - If foliage roosting bats are determined to be present, limbs shall be lowered, inspected for bats by a bat biologist, and chipped immediately or moved to a dump site.
 - Alternately, limbs may be lowered and left on the ground until the following day, when they can be chipped or moved to a dump site. No logs or tree sections shall be dropped on downed limbs or limb piles that have not been in place since the previous day.

- To compensate for disturbance of sensitive habitats, and to comply with the Santa Cruz County General Plan Policy 5.1.12, the area of temporarily disturbed sensitive habitat shall be replaced in-kind at a minimum restoration to impact ratio of 1:1. A site-specific Habitat Restoration Plan shall be developed by a qualified biologist or restoration professional, and shall include the following minimum elements:
 - Identification of areas on site where temporary disturbance and re-establishment of native habitat shall occur. All areas temporarily disturbed as a result of the project shall be restored to pre-project contours to the maximum extent

possible and re-vegetated with native plant species appropriate to the habitat disturbed.

- A tree inventory assessment including the species, size, and locations of all trees intended for removal.
- All native trees removed shall be replaced in-kind at a minimum 1:1 ratio. Non-native trees removed shall be replaced at a minimum 1:1 ratio by native tree species appropriate to the surrounding habitat.
- A site-specific planting plan intended to inform the re-vegetation efforts. Local plant stock shall be used whenever possible. The plant pallet should include native species common to the surrounding native habitats that are being restored.

Cultural Resources

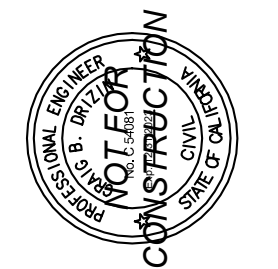
- If archaeological resources are unexpectedly discovered during construction, work shall be halted within 50 meters (±160 feet) of the find until it can be evaluated by a qualified professional archaeologist in collaboration with a Native American representative. If the find is determined to be significant, appropriate mitigation measures shall be formulated and implemented by PVUSD in coordination with a qualified professional archaeologist in collaboration with a Native American representative.
- If human remains are unexpectedly discovered during construction, work shall be halted within 50 meters (±160 feet) of the find. The County Coroner shall be notified in accordance with provisions of Public Resources Code 5097.98-99 in the event human remains are found and the Native American Heritage Commission shall be notified in accordance with the provisions of Public Resources Code Section 5097 if the remains are determined to be of Native American origin. The Commission will designate a Most Likely Descendant who will be authorized to provide recommendations for management of the Native American human remains. (California Public Resources Code Section 5097.98; and Health and Safety Code Section 7050.5)

ABBREVIATIONS

ACPAD	AIR CONDITIONER FOUNDATION PAD
ADCSWL	CONCRETE SWALE
AD	AREA DRAIN
BFP	BACKFLOW PREVENTION VALVE
BLLRD	BOLLARD
BM	BENCHMARK
C	CONCRETE
CBNT	CABINET
CB	CATCH BASIN
CBDG	CORNER BUILDING FOUNDATION
CC	CORNER CONCRETE
CFNC	CORNER FENCE
CO	CLEAN OUT
COMMBX	COMMUNICATIONS UTILITY BOX
CSTP	CONCRETE STEP
CTNL	TEMPORARY SURVEY CONTROL
DRP	TREE DRIP LINE
DWY	DRIVEWAY
E	EXISTING
EB	ELECTRICAL UTILITY BOX
EFLCRB	EDGE FLOWLINE OF CURB
EFLD	EDGE FLOWLINE OF DRIVEWAY
EFNC	END OF FENCE
EHDR	EDGE HANDICAP RAMP
ELBX	ELECTRICAL UTILITY BOX
ELECBX	ELECTRICAL UTILITY BOX
EP	EDGE PAVEMENT
EP/C	EDGE PAVEMENT/CONCRETE
EPDWY	EDGE PAVEMENT/DRIVEWAY
EPSWL	EDGE OF PAVEMENT/SWALE
ESTP	EDGE OF STEP
F	FLANGE
FF	FINISHED FLOOR
FL	FLOW LINE
FLCRB	FLOW LINE OF CURB
FLD	FLOW LINE OF DRIVEWAY
FLTRPAD	FILTRATION SYSTEM FOUNDATION PAD
FLTRTNKPAD	FILTRATION TANK FOUNDATION PAD
FNC	FENCE
FS	FOG STRIPE
G	GRADE
GB	GRADE BREAK
GL	GUTTER LIP
GV	GAS VALVE
HB	HOSE BIB
HDPE	HIGH-DENSITY POLYETHYLENE
HDR	HANDICAP (ACA) RAMP
INV	INVERT
JP	JOINT UTILITY POLE
LP	LIGHT POLE
MH	MANHOLE
MJ	MECHANICAL JOINT
P	PAVEMENT
P+TOE	PAVEMENT, TOE OF SLOPE
ROW	RIGHT-OF-WAY
RR	RAILROAD
RRXINGPAD	RAILROAD CROSSING SIGNAL PAD
RWD14	REDWOOD TREE 14" TRUNK DIAMETER
SDMH	STORM DRAIN MANHOLE
SIGBX	TRAFFIC SIGNAL BOX
SPK	IRON SPIKE
SS	SANITARY SEWER USA MARKING
SSCO	SANITARY SEWER CLEAN OUT
SSMH	SANITARY SEWER MANHOLE
STP	STEP
TB	TOP OF BANK
TBLBX	COMMUNICATION UTILITY BOX
TFH	TOP OF FIRE HYDRANT
UTILBX	UTILITY BOX
WM	WATER METER
WTR	WATER USA MARKING
WTRRTNK	WATER TANK
WWV	WATER VALVE

DSA

REV	DESCRIPTION	BY	DATE
1/A	60% PLAN SUBMITTAL	RP	12/2022
2/A	90% PLAN SUBMITTAL	RP	12/2023
3/A	100% DRAFT PLAN SUBMITTAL	RP	01/2025
4/A			
5/A			



RENAISSANCE HIGH SCHOOL
WATER SYSTEM CONSOLIDATION

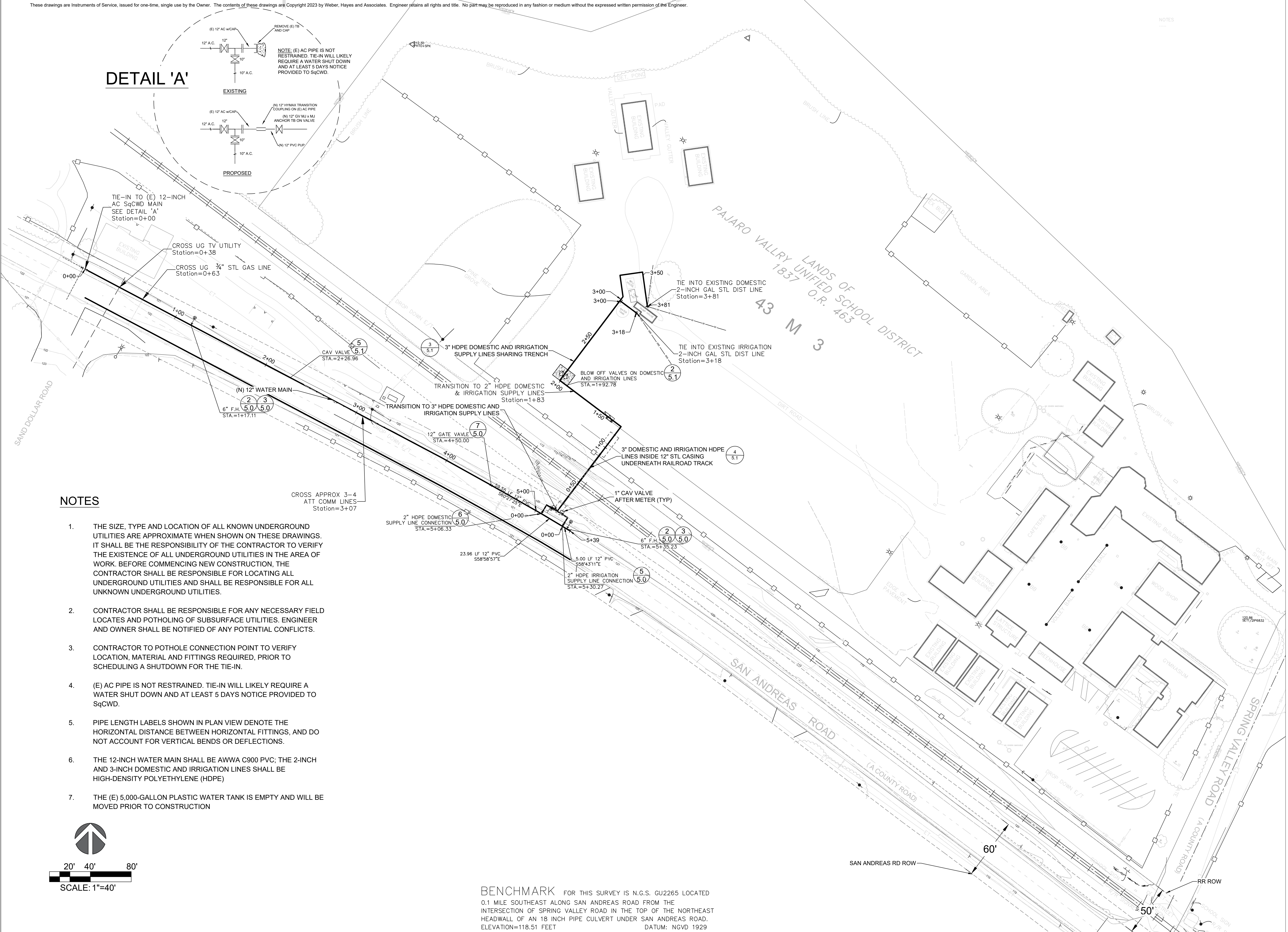
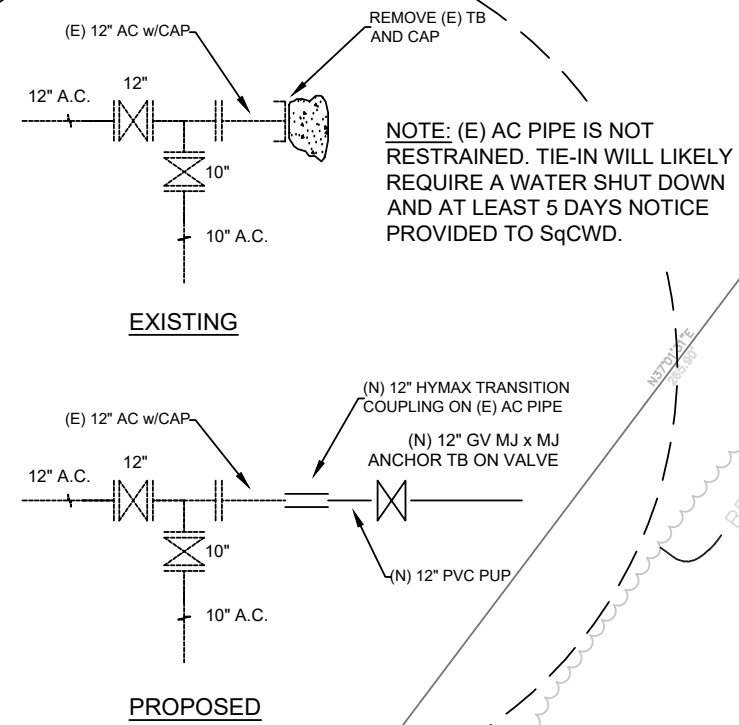
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La Selva Beach, CA 95076

GENERAL NOTES

DRAWN BY: RP
CHECKED BY: CD/SM
JOB NUMBER: 2T162

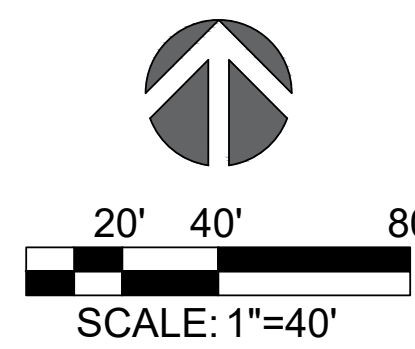
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DETAIL 'A'



NOTES

1. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY FIELD LOCATES AND POTHOLING OF SUBSURFACE UTILITIES. ENGINEER AND OWNER SHALL BE NOTIFIED OF ANY POTENTIAL CONFLICTS.
3. CONTRACTOR TO POTHOLE CONNECTION POINT TO VERIFY LOCATION, MATERIAL AND FITTINGS REQUIRED, PRIOR TO SCHEDULING A SHUTDOWN FOR THE TIE-IN.
4. (E) AC PIPE IS NOT RESTRAINED. TIE-IN WILL LIKELY REQUIRE A WATER SHUT DOWN AND AT LEAST 5 DAYS NOTICE PROVIDED TO S&CWD.
5. PIPE LENGTH LABELS SHOWN IN PLAN VIEW DENOTE THE HORIZONTAL DISTANCE BETWEEN HORIZONTAL FITTINGS, AND DO NOT ACCOUNT FOR VERTICAL BENDS OR DEFLECTIONS.
6. THE 12-INCH WATER MAIN SHALL BE AWWA C900 PVC; THE 2-INCH AND 3-INCH DOMESTIC AND IRRIGATION LINES SHALL BE HIGH-DENSITY POLYETHYLENE (HDPE)
7. THE (E) 5,000-GALLON PLASTIC WATER TANK IS EMPTY AND WILL BE MOVED PRIOR TO CONSTRUCTION



BENCHMARK FOR THIS SURVEY IS N.G.S. GU2265 LOCATED 0.1 MILE SOUTHEAST ALONG SAN ANDREAS ROAD FROM THE INTERSECTION OF SPRING VALLEY ROAD IN THE TOP OF THE NORTHEAST HEADWALL OF AN 18 INCH PIPE CULVERT UNDER SAN ANDREAS ROAD. ELEVATION=118.51 FEET DATUM: NGVD 1929

REV	DESCRIPTION	BY	DATE
1	60% PLAN SUBMITTAL	RP	12/2022
2	90% PLAN SUBMITTAL	RP	12/2023
3	100% DRAFT PLAN SUBMITTAL	RP	01/2025



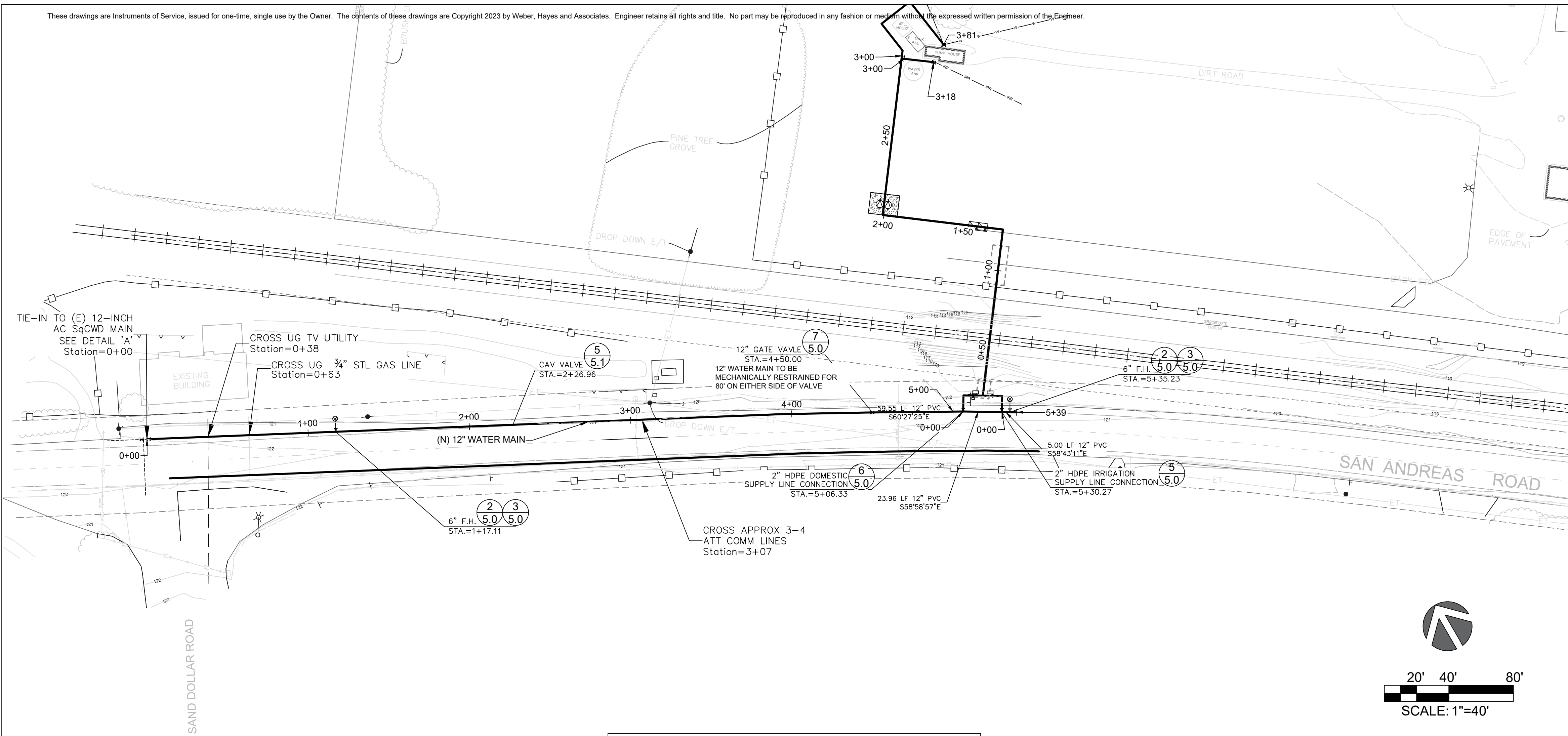
RENAISSANCE HIGH SCHOOL
WATER SYSTEM CONSOLIDATION

11 Spring Valley Rd.
La Selva Beach, CA 95076

SITE PLAN LAYOUT

DRAWN BY: RP
CHECKED BY: ODDSM
JOB NUMBER: 21162

SHEET W1.0



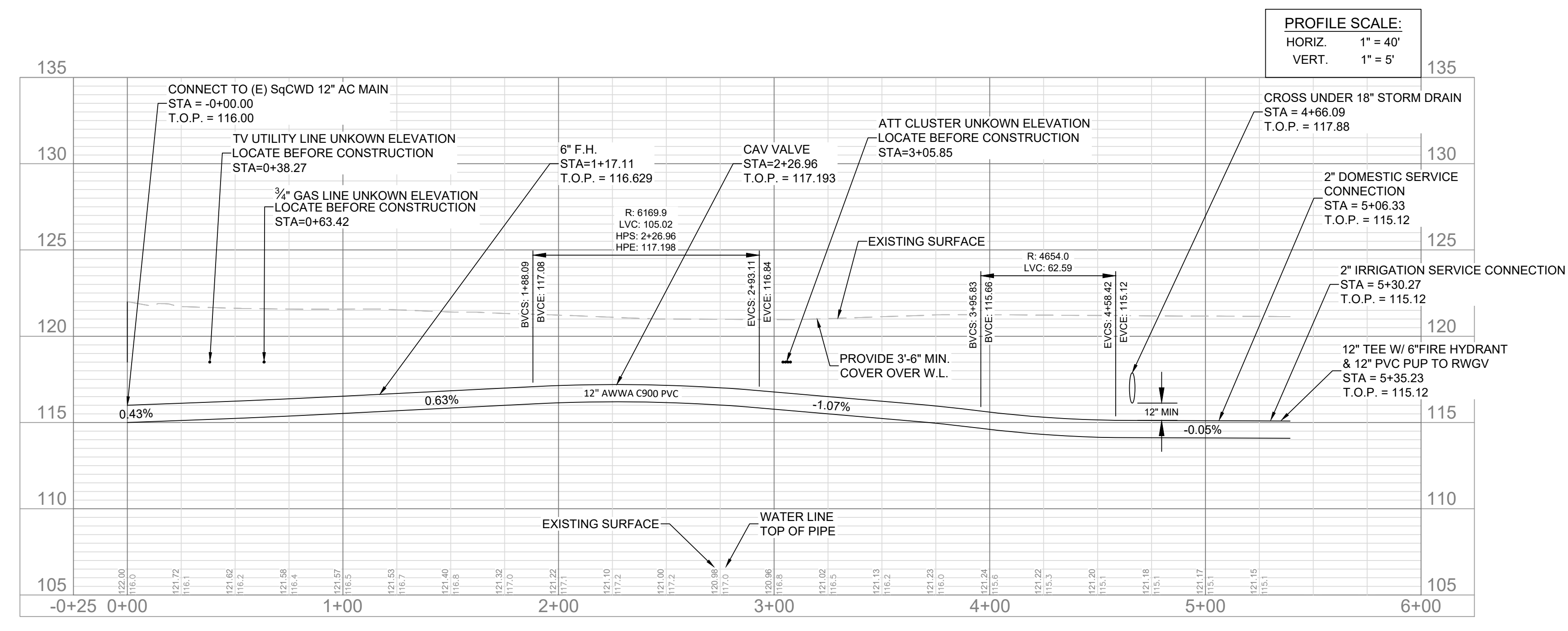
12-INCH WATER LINE - SAN ANDREAS ROAD

NOTES

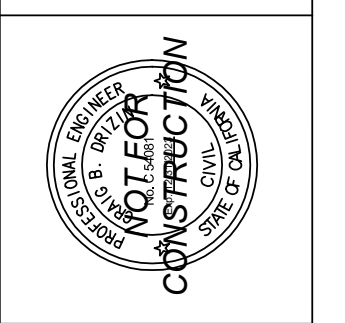
1. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY FIELD LOCATES AND POTHOLING OF SUBSURFACE UTILITIES. ENGINEER AND OWNER SHALL BE NOTIFIED OF ANY POTENTIAL CONFLICTS.
3. CONTRACTOR TO POTHOLE CONNECTION POINT TO VERIFY LOCATION, MATERIAL AND FITTINGS REQUIRED, PRIOR TO SCHEDULING A SHUTDOWN FOR THE TIE-IN. THE DEPTH OF THE CONNECTION POINT AND OTHER RELEVANT DETAILS ARE TO BE COMMUNICATED TO THE DESIGN ENGINEER (WEBER, HAYES & ASSOCIATES)
4. PIPE LENGTH LABELS SHOWN IN PLAN VIEW DENOTE THE HORIZONTAL DISTANCE BETWEEN HORIZONTAL FITTINGS, AND DO NOT ACCOUNT FOR VERTICAL BENDS OR DEFLECTIONS.
5. ALL WATER MAINS SHALL BE AWWA C900 PVC
6. CONTRACTOR SHALL MAINTAIN SLOPE AS SHOWN IN PROFILE. ANY HIGH POINTS CREATED WHERE AIR CAN ACCUMULATE MUST BE REMOVED AND REINSTALLED WITH THE CORRECT SLOPE. IF A HIGH POINT IS UNAVOIDABLE DUE TO A UTILITY CONFLICT, CONTRACTOR SHALL INSTALL AN AIR RELEASE VALVE PER DISTRICT STD S-11

STORM DRAIN CROSSING NOTES

1. PIPE WITHIN CROSSING ZONE SHALL BE CLASS 200 PVC WATER PIPE (DR 14 PER AWWA C900-97).
2. USE MJ X MEGALUG MECHANICAL JOINT RESTRAINTS FOR BELL AND SPIGOT CONNECTIONS ON BOTH SIDES OF SD CROSSING
3. ALL FITTINGS AND PIPING WITHIN CROSSING ZONE SHALL BE WRAPPED AND EFFECTIVELY SEALED WITH 20 MIL PLASTIC VISQUEEN. THE VISQUEEN CONTINUOUS WRAP AROUND THE PIPE WILL EXTEND AT LEAST 24 LINEAR FEET, CENTERED ON THE CULVERT CROSSING.
4. NO CONNECTION JOINTS SHALL BE MADE IN THE WATER MAIN WITHIN EIGHT HORIZONTAL FEET OF THE CULVERT CROSSING.
5. NOTE SLIGHT CURVATURE IN WATER MAIN TO CROSS UNDER SD CULVERT



REV.	DESCRIPTION	BY	DATE
1	60% PLAN SUBMITTAL	RP	12/2022
2	90% PLAN SUBMITTAL	RP	12/2023
3	100% DRAFT PLAN SUBMITTAL	RP	01/2025



SAN ANDREAS ROAD ALIGNMENT

RENAISSANCE HIGH SCHOOL WATER SYSTEM CONSOLIDATION

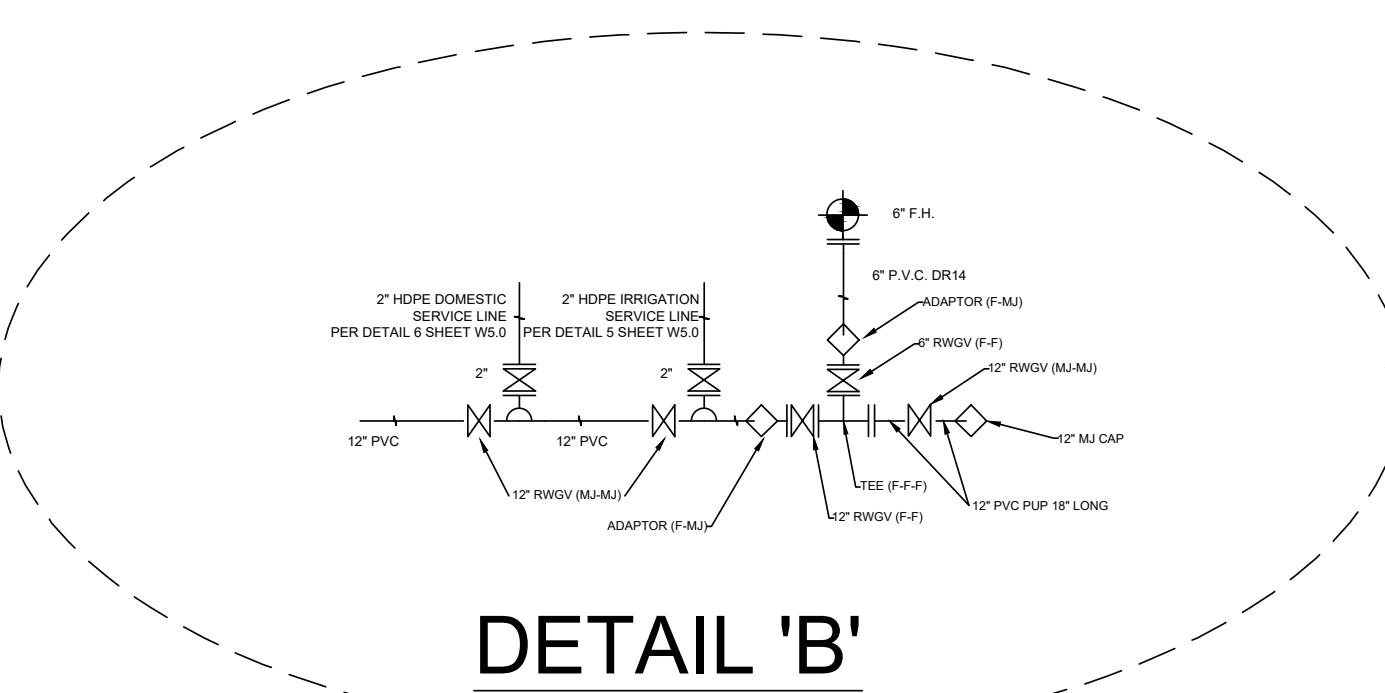
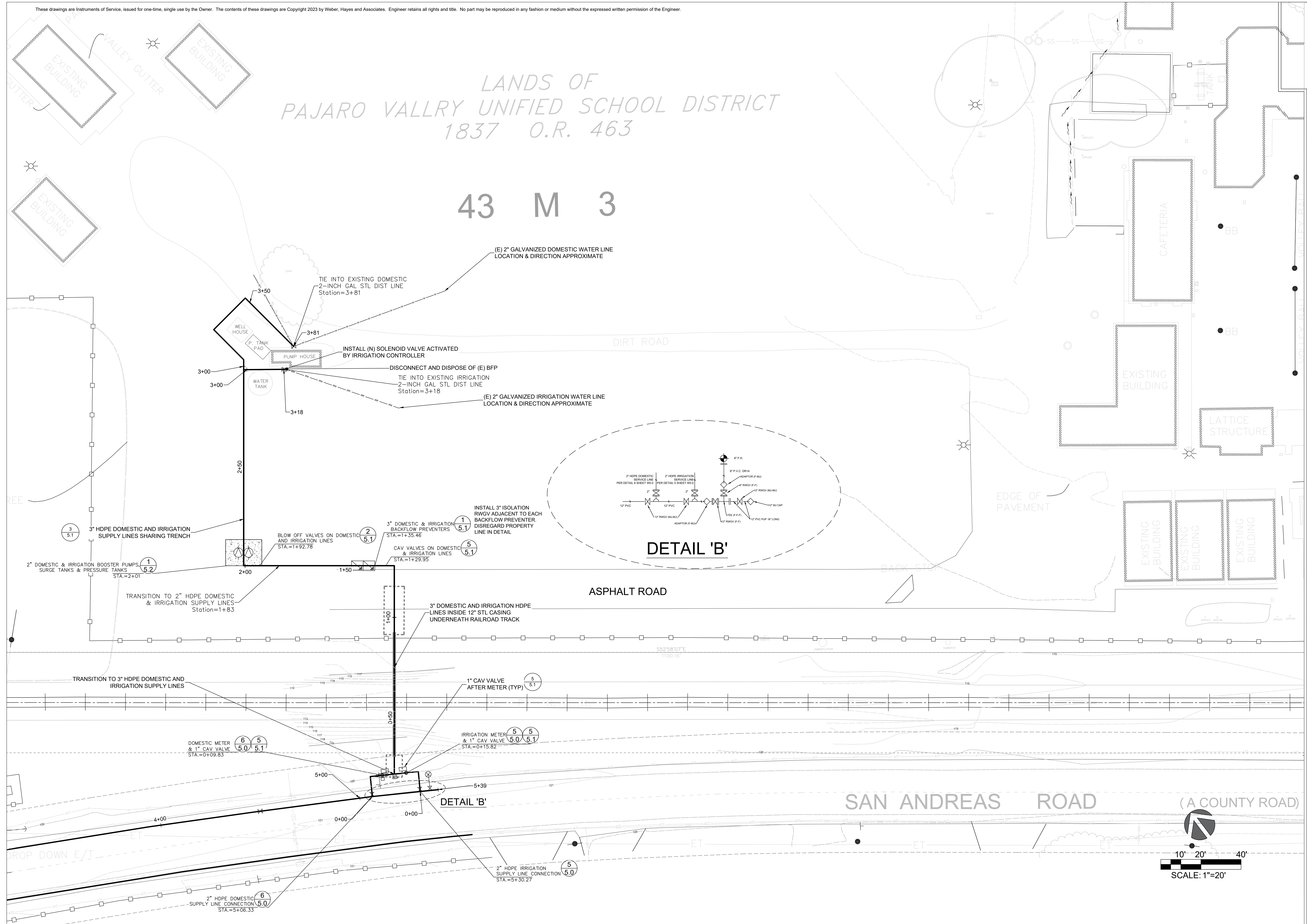
11 Spring Valley Rd.
La Selva Beach, CA 95076

DRAWN BY: RP
CHECKED BY: CD/SM
JOB NUMBER: 21162

SHEET
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LANDS OF
PAJARO VALLRY UNIFIED SCHOOL DISTRICT
1837 O.R. 463

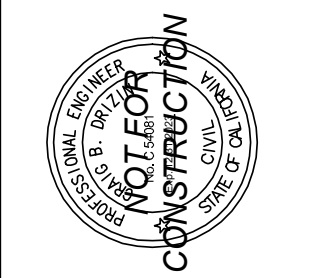
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DSA

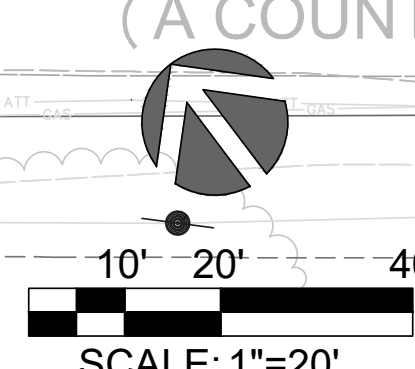
REV.	DESCRIPTION	DATE	BY
1	60% PLAN SUBMITTAL	12/2022	RP
2	90% PLAN SUBMITTAL	12/2023	RP
3	100% DRAFT PLAN SUBMITTAL	01/2025	RP

WHA
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Hydrology and Environmental Engineering
320 Westgate Drive, Watsonville, CA 95076
(831) 722-3380 / www.weber-hayes.com



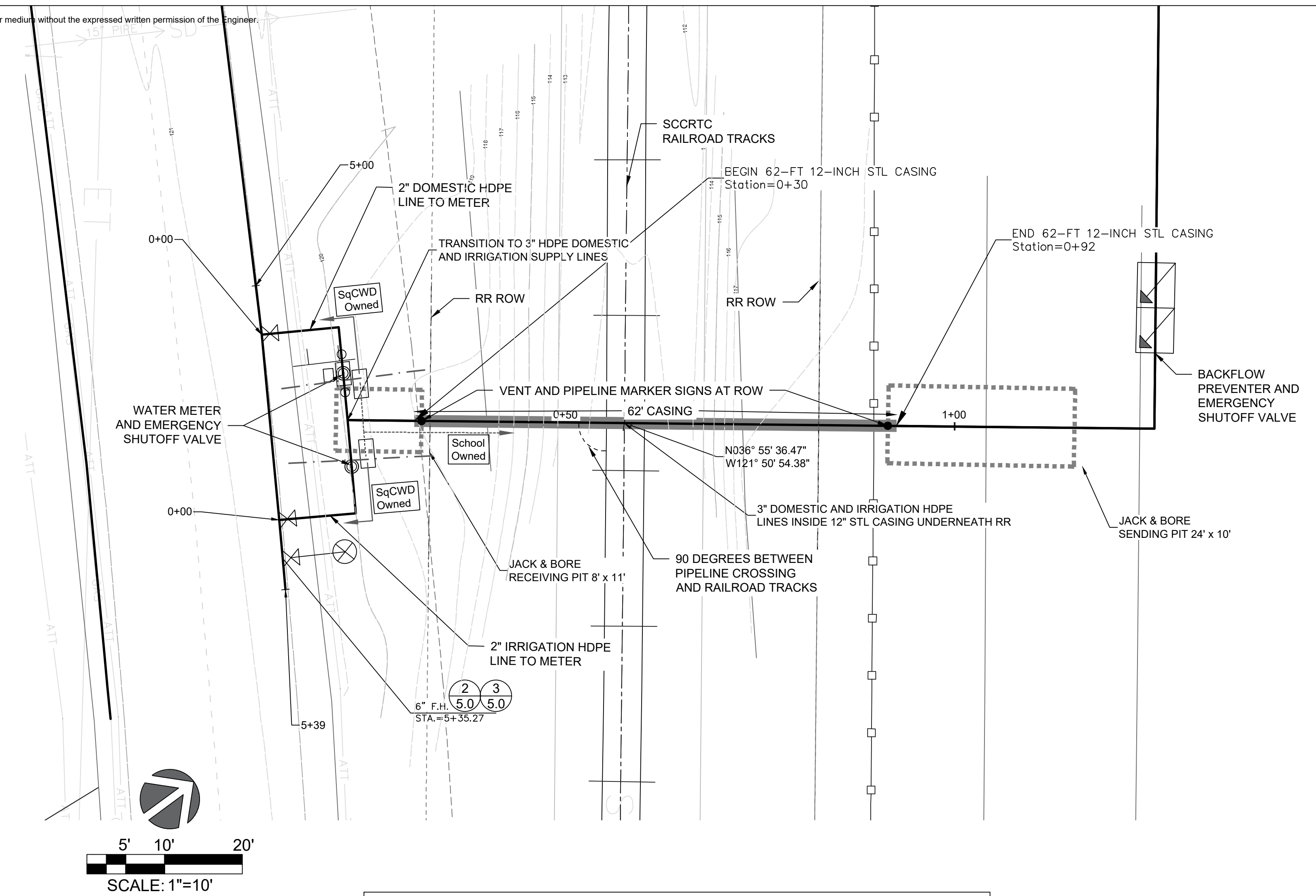
RENAISSANCE HIGH SCHOOL
WATER SYSTEM CONSOLIDATION
11 Spring Valley Rd.
La Selva Beach, CA 95076

DISTRIBUTION LAYOUT
DRAWN BY: RP
CHECKED BY: CD/SM
JOB NUMBER: 21162
SHEET W3.0

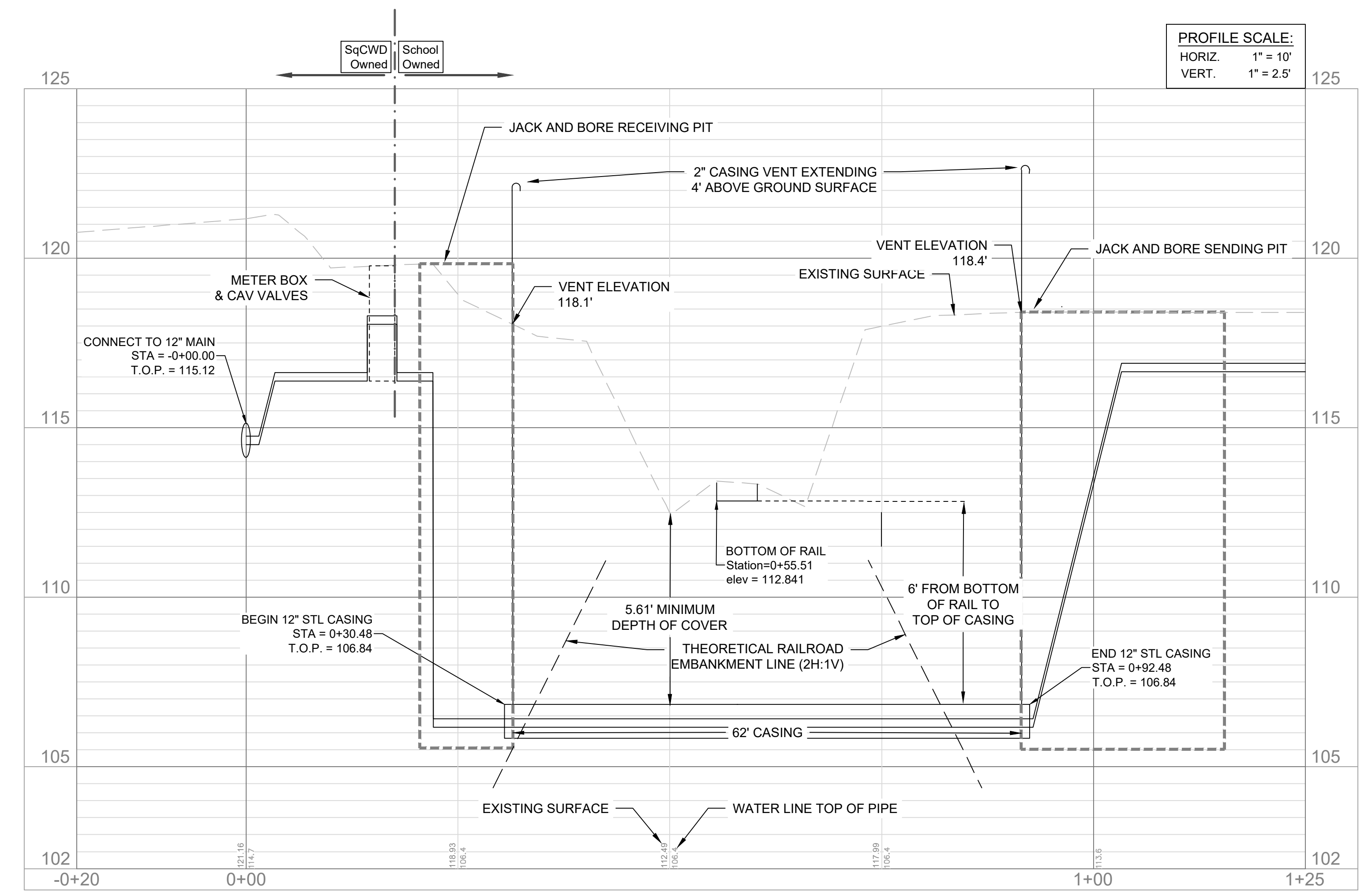


NOTES

1. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY FIELD LOCATES AND POTHOLING OF SUBSURFACE UTILITIES. ENGINEER AND OWNER SHALL BE NOTIFIED OF ANY POTENTIAL CONFLICTS.
3. PIPE LENGTH LABELS SHOWN IN PLAN VIEW DENOTE THE HORIZONTAL DISTANCE BETWEEN HORIZONTAL FITTINGS, AND DO NOT ACCOUNT FOR VERTICAL BENDS OR DEFLECTIONS.
4. ALL WATER MAINS SHALL BE AWWA C900 PVC
5. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF SCCRTC DESIGN AND CONSTRUCTION SPECIFICATIONS
6. REFER TO GENERAL NOTES, SEC 16.2 FOR SANTA CRUZ COUNTY REGIONAL TRANSPORTATION COMMISSION (SCCRTC) SUBMITTAL REQUIREMENTS
7. FOR CASING INSTALLATION, REFER TO GENERAL NOTES, SEC 20.13 AND SHEET 5.1, DETAIL 4
8. PIPELINE AND CROSSING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAME SUBSTANCES
9. ANY BLASTING REQUIRES ADHERENCE TO SCCRTC REQ, SEE SEC. 23.2
10. NO SLOPING CUTS WILL BE ALLOWED FOR THE SENDING AND RECEIVING PITS; SHORING WILL BE REQUIRED TO SUPPORT OSHA STANDARD LOADS
11. TRACK MONITORING TO DETECT ANY MOVEMENT OF TRACK RAILS DURING THE JACK AND BORE PROCESS WILL BE REQUIRED, INCLUDING A BASELINE AND POST CONSTRUCTION SURVEYS, SEE GENERAL NOTES, SEC 16.2
12. JACK AND BORE PROCESS SHALL BE NON-STOP, CONTINUOUS FROM PIT TO PIT. A JACK AND BORE PLAN SUBMITTAL BY THE CONTRACTOR WILL BE REQUIRED FOR REVIEW AND APPROVAL BY THE SCCRTC
13. INSTALL 2 INCH PVC VENT PIPES NEAR EACH END OF CASING AND PROJECT THROUGH GROUND SURFACE. TOP OF VENT PIPE SHALL BE FITTED WITH DOWN-TURNED ELBOW PROPERLY SCREENED AND AT LEAST 4 FEET ABOVE GROUND SURFACE.



RAILROAD CROSSING ALIGNMENT



REV	DESCRIPTION	BY	DATE
1/A	60% PLAN SUBMITTAL	RP	12/2022
2/A	90% PLAN SUBMITTAL	RP	12/2023
3/A	100% DRAFT PLAN SUBMITTAL	RP	01/2025



RENAISSANCE HIGH SCHOOL
WATER SYSTEM CONSOLIDATION
11 Spring Valley Rd.
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RAILROAD CROSSING
DRAWN BY: RP
CHECKED BY: CD/SM
JOB NUMBER: 2T162

SHEET W4.0

MINIMUM
CU. FT. "C"
PIPE SIZE 4" 6" 8" 10"
CUBIC FOOT 8 15 26 44

MINIMUM AREA
"C" IN SQ. FT.
TYPE OF FITTING 6" 8" 10"
90° ELL 1.5 2.5 5
45° ELL 1.5 1.5 2.5
CROSS 1.5 1.5 2
TEE 1.5 1.5 2
PLUG 1.5 1.5 2

BASED ON SOIL BEARING VALUE OF 3000 LBS PER SQ FT AND INTERNAL (WATER) PRESSURE OF 100 PSI. MINIMUM "C" = 1.5 SQ. FT.

ALL THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH.

SOQUEL CREEK WATER DISTRICT
P.O. BOX 1550 CAPITOLA, CALIFORNIA 95010

CAD: TAD
DATE: DEC-06
CHECKED: MJW
APPROVED: JNG

THRUST BLOCK DETAILS STD. NO. S-7

HYDRANT HEAD & B.O. SPOOL WITH BRONZE CAPS AND CHAIN PAINTED OSHA YELLOW WITH RUST-OLEUM 2143, DUPONT 23663D, AERVOE 302 OR KRYLON 1813. (PLASTIC CAPS NOT ALLOWED)

VALVE BOX ASSEMBLY PER SCWD STANDARD S-6 WITH CONCRETE COLLAR

6" M.J. x FLG. OR 6" FLG. SS TAPPING TEE

6" M.J. x FLG. G.V. (STAINLESS STEEL HARDWARE)

M.J. HYDRANT BURY

THRUST BLOCK PER SCWD STANDARD S-7 WHEN REPLACING HYDRANT ON AN EXISTING LATERAL.

6" D.I.P. OR C-900 PVC PIPE

THRUST BLOCK PER SCWD STANDARD S-7 WHEN REPLACING HYDRANT ON AN EXISTING LATERAL.

A.C., C.I., OR PVC PIPE

NOTE: 1. HYDRANT SHALL BE COVERED WITH A BURLAP SACK UNTIL PUT IN SERVICE.

MANUFACTURER	HYDRANT TYPE
	6" STEAMER
OUTLETS	1-2 1/2" 2-2 1/2"
	1-4 1/2" 1-4 1/2"
CLOW	2050 2060
JONES	J-3740 J-3760
LONG BEACH	B125 B130

SOQUEL CREEK WATER DISTRICT
P.O. BOX 1550 CAPITOLA, CALIFORNIA 95010

CAD: TAD
DATE: DEC-06
CHECKED: MJW
APPROVED: JNG

FIRE HYDRANT ASSEMBLY STD. NO. S-9

TYPE OF INSTALLATION	"A"	"B"
PARKING STRIP	18" MIN.	---
MONOLITHIC SIDEWALK ALTERNATIVE 1	18" MIN.	5' MIN.
MONOLITHIC SIDEWALK ALTERNATIVE 2	5' MIN.	18" MIN.

FOR SECTION "A - A" SEE STD. DWG. S-10, 2/2

SOQUEL CREEK WATER DISTRICT
P.O. BOX 1550 CAPITOLA, CALIFORNIA 95010

CAD: TAD
DATE: DEC-06
CHECKED: MJW
APPROVED: JNG

FIRE HYDRANT PLACEMENT AND CLEARANCES STD. NO. S-10 1/2

SECTION "A - A"

NOTES:
- NATIVE GROUND SHALL BE GRADED AT 2:1 (max.) FROM HYDRANT PAD
- WHERE A GRADE OF 2:1 CANNOT BE MAINTAINED, A RETAINING WALL WILL BE REQUIRED.

SOQUEL CREEK WATER DISTRICT
P.O. BOX 1550 CAPITOLA, CALIFORNIA 95010

CAD: TAD
DATE: DEC-06
CHECKED: MJW
APPROVED: JNG

FIRE HYDRANT PLACEMENT AND CLEARANCE STD. NO. S-10 2/2

1 THRUST BLOCK DETAIL

2 HYDRANT ASSEMBLY DETAIL

3 HYDRANT PLACEMENT DETAIL

Note: Details are included for reference/bidding purposes. contractor shall comply with most current details available on the SqCWD's website at time of construction.

SEE NOTE 2

12" MIN.

NEW AC

EXISTING AC MUST BE REMOVED IF 2" OR LESS FROM THE EDGE OF ROAD OR CURB

EXISTING SUBGRADE

EXISTING NATIVE MATERIAL

2-SACK SAND SLURRY MIX OR 6" AGGREGATE BASE/ROCK 95% RC. SEE NOTE 5

2-SACK SAND SLURRY MIX

OPTIONAL STEPPED OR SLOPING TRENCH WALLS

LOCATOR WIRE SHIELDED SOLID #12 HMWPE COPPER WIRE CONTINUOUS ALONG PIPE TOP (TAPED DOWN EVERY 6 FT USING 2" ELECTRICAL TAPE COVERING 70% OF PIPE)

95% R.C.

12" MIN.

8" MIN. 12" MAX.

SAND BEDDING COMPACTED 95% SEE NOTE 5

4" MIN.

NOTES:
1. PAVEMENT SHALL BE REPLACED IN KIND, HOWEVER, MINIMUM STANDARDS ARE AS FOLLOWS:
A. PAVED ROADS, MIN. 2" THICK A.C. TYPE B ASPHALT WITH MAX. THICKNESS OF 4" (2 LIFTS)
B. NON-PAVED ROADS, TO BE REPAIRED IN KIND WITH DIRECTION FROM THE DISTRICT ENGINEER AND DISTRICT SPECIFICATIONS
2. CUT EXISTING PAVEMENT TO PRODUCE A STRAIGHT VERTICAL FACE AGAINST WHICH TO BUTT THE TRENCH PAVEMENT. ALL SURFACES SHALL BE TACK OILED AND PREPPED FOR NEW ASPHALT.
3. LONGITUDINAL TRENCHES WITHIN A PAVED AREA OR A ROAD RIGHT-OF-WAY SHALL BE BACK-FILLED AS SHOWN ABOVE.
4. TRENCHES OUTSIDE A PAVED AREA OR A ROAD RIGHT-OF-WAY SHALL HAVE BACKFILL COMPACTED TO NOT LESS THAN 90% RELATIVE COMPACTION.
5. TRENCH BACKFILL MATERIAL SUBJECT TO COMPACTION TESTING PER DISTRICT'S SPECIFICATIONS.
6. ROAD SECTION REPAIRS IN COUNTY MAINTAINED ROADS SHALL BE PER COUNTY STANDARDS
7. TRACER WIRE SPURCE KIT MUST BE 3M DIRECT BURY SPURCE DBR/Y-6 WITH POLYGLARD CA-14 MASTIC COATING OR APPROVED EQUAL.

SOQUEL CREEK WATER DISTRICT
P.O. BOX 1550 CAPITOLA, CALIFORNIA 95010

CAD: AJB
DATE: AUGUST 2021
CHECKED: BPD
APPROVED: TAD

LONGITUDINAL TRENCH SAND BACKFILL STD. NO. S-14

4 TRENCH DETAIL

VALVE BOX AND VALVE ASSEMBLY PER DISTRICT STD S-6 "W" MARKED ON LID

BRASS PIPE AND FITTINGS (TYP)

CHRISTY METER BOX N30
CHRISTY METER BOX EXTENSION DISTRICT WILL PROVIDE LID

FINISH GRADE

2" BALL CORP STOP WITH T-HEAD ADAPTER FORD FB500-7-TA-NL OR MUELLER B-2969N

BRASS NIPPLE WITH ABS CAP EXITING METER BOX

LOCATOR WIRE

SERVICE PIPE TO MAINTAIN POSITIVE SLOPE FROM VALVE TO METER

SPLIT TUBE INSULATION

METER BOX GROUT PER S-3

4" X4" REDWOOD TYP.

2" PE W/PAC JOINT FITTINGS IF REQ'D

DISTRICT RESPONSIBILITY

CUSTOMER RESPONSIBILITY

MINIMUM BENDING RADIUS IS 33(D) D=DIAMETER OF SERVICE PIPE

METER SIZE	DIMENSION A	DIMENSION B	DIMENSION C
1.5"	7"	2"	13.25"

NOTES:
1. ALL PIPE AND FITTINGS TO BE POLYETHYLENE SERVICE TUBING OR BRASS PIPE AND FITTINGS.
2. METER FLANGES AND BOLTS TO BE PROVIDED BY DISTRICT.
3. RISERS MUST BE SAND BACKFILLED, NOT NATIVE SOIL.
4. A REDUCED PRESSURE BACKFLOW ASSEMBLY MAY BE REQUIRED BY DISTRICT CROSS-CONNECTION SPECIALIST. SEE S-19.
5. IF MINIMUM BENDING RADIUS CAN BE ACCOMMODATED, DO NOT USE 90° ELBOW PAC JOINT FITTING

SOQUEL CREEK WATER DISTRICT
P.O. BOX 1550 CAPITOLA, CALIFORNIA 95010

CAD: AJB
DATE: DEC.13, 2021
CHECKED: BPD
APPROVED: TAD

1.5-INCH SERVICE CONNECTION STD. NO. S-18 VERSION A

5 IRRIGATION SERVICE METER DETAIL

TRAFFIC VALVE BOX & GATE VALVE ASSEMBLY PER SqCWD STD. S-6 (TYP)

PVC, DI, OR BRASS PIPE AND FITTINGS (TYP)

METER BOX CHRISTY N36BOX
METER BOX LID CHRISTY B36-61G
METER BOX EXTENSION CHRISTY B36x12

FINISH GRADE

LOCATOR WIRE (SEE NOTE 7)

JONES BRONZE GATE VALVE E-372 W/ ALL BRONZE CONSTRUCTION INCL. WHEEL OR APPROVED EQUAL

4" X4" REDWOOD (TYP)

2-INCH METER & TEST PORT SUPPLIED BY SCWD LAY LENGTH DIMENSIONS 17.25-INCHES

DISTRICT RESPONSIBILITY

CUSTOMER RESPONSIBILITY

2" BALL CORP STOP FORD FB500-7-TA-NL OR MUELLER B-2969N FORD FB500-7-TA-NL

2" FIP ELBOW 45 DEGREE

DOUBLE STRAP SADDLE PER SCWD STANDARD S-3

INSTALL 2" BALL VALVE CURB STOP w/LOCKING CAP IN B-9 METER BOX MARKED WATER. FORD B44-777-Q-NL OR EQUAL.

2" P.E. CTS SDR 9 W/MIP X PAC JOINT FITTINGS. (TYP BOTH SIDES) ROLL UP PIPE TO 12" COVER AT BALL VALVE.

NOTES:
1. ALL PIPE AND FITTINGS TO BE POLYETHYLENE SERVICE TUBING, C-900 PVC, DI OR NO-LEAD BRASS. NO GALV.
2. METER FLANGES AND BOLTS TO BE PROVIDED BY DISTRICT.
3. RISERS MUST BE SAND BACKFILLED, NOT NATIVE SOIL.
4. A REDUCED PRESSURE BACKFLOW ASSEMBLY IS REQUIRED PER SqCWD STD. S-16 OR S-19.
5. IF MINIMUM BENDING RADIUS CAN BE ACCOMMODATED, DO NOT USE PAC JOINT ELBOWS.
6. BYPASS MAY BE 1-INCH SIZE IF 2X1 TEE IS AVAILABLE. NO BUSHINGS ALLOWED.
7. SHALL BE SHIELDED SOLID CORE #12 HMWPE COPPER WIRE CONTINUOUS ALONG PIPE TOP (TAPED EVERY 6 FT)

SOQUEL CREEK WATER DISTRICT
P.O. BOX 1550 CAPITOLA, CALIFORNIA 95010

CAD: AJB
DATE: SEPT. 19, 2022
CHECKED: BPD
APPROVED: TAD

2-INCH AND LARGER SERVICE WITH BY-PASS AND TRAFFIC RATED STD. NO. S-18 VERSION B

6 DOMESTIC SERVICE METER DETAIL

FINISH GRADE

C.I. TRAFFIC LID MARKED "WATER" CHRISTY C275.

TRAFFIC VALVE BOX CHRISTY G5.

CONCRETE COLLAR 6" WIDE X 6" DEEP.

LOCATOR WIRE SHIELDED SOLID #12 HMWPE COPPER WIRE CONTINUOUS ALONG MAINLINE OR AS DIRECTED BY DISTRICT.

FOR CONNECTING NEW WIRE TO EXISTING LOCATOR WIRE, SPURCE KIT MUST BE 3M DIRECT BURY SPURCE DBR/Y-6 WITH POLYGLARD CA-14 MASTIC COATING OR APPROVED EQUAL.

VALVE BOX EXTENSION 6" SDR 35 P.V.C.

GATE VALVE OR BUTTERFLY VALVE (SEE NOTE 1.)

ALL BOLTS AND NUTS SHALL BE TRIPAC 1-2000 COATED HEAVY HEX OR APPROVED EQUAL

COAT ALL FERROUS METAL WITH BITUMASTIC TYPE MATERIAL

D.I. OR P.V.C. (C-900) PIPE

4" X4" REDWOOD (TYP)

1. ALL VALVE HARDWARE SHALL BE TYPE 316 STAINLESS STEEL. THIS SHALL SUPERCEDE SECTION 307.02.04 OF SCWD STANDARD SPECIFICATIONS

SOQUEL CREEK WATER DISTRICT
P.O. BOX 1550 CAPITOLA, CALIFORNIA 95010

CAD: AJB
DATE: AUGUST 30, 2021
CHECKED: BPD
APPROVED: TAD

BURIED VALVE ASSEMBLY STD. NO. S-6

7 VALVE ASSEMBLY DETAIL

REV	DESCRIPTION	DATE	BY
1	60% PLAN SUBMITTAL	12/2022	RP
2	90% PLAN SUBMITTAL	12/2023	RP
3	100% DRAFT PLAN SUBMITTAL	01/2025	RP

WHA
Weber, Hayes and Associates
Hydrogeology and Environmental Engineering
120 Westgate Drive, Watsonville, CA 95076
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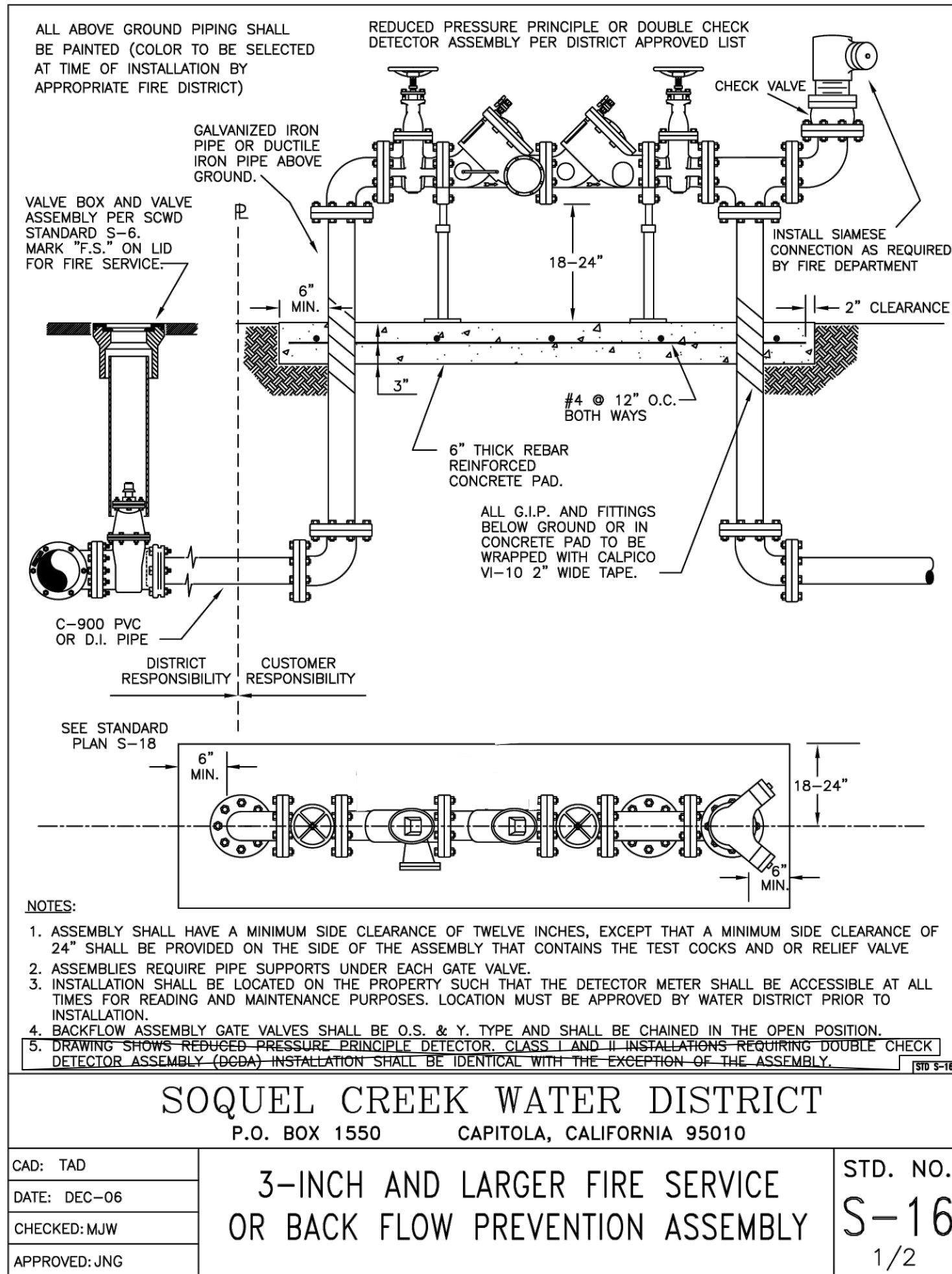
RENNAISSANCE HIGH SCHOOL
WATER SYSTEM CONSOLIDATION

11 Spring Valley Rd.
La Selva Beach, CA 95076

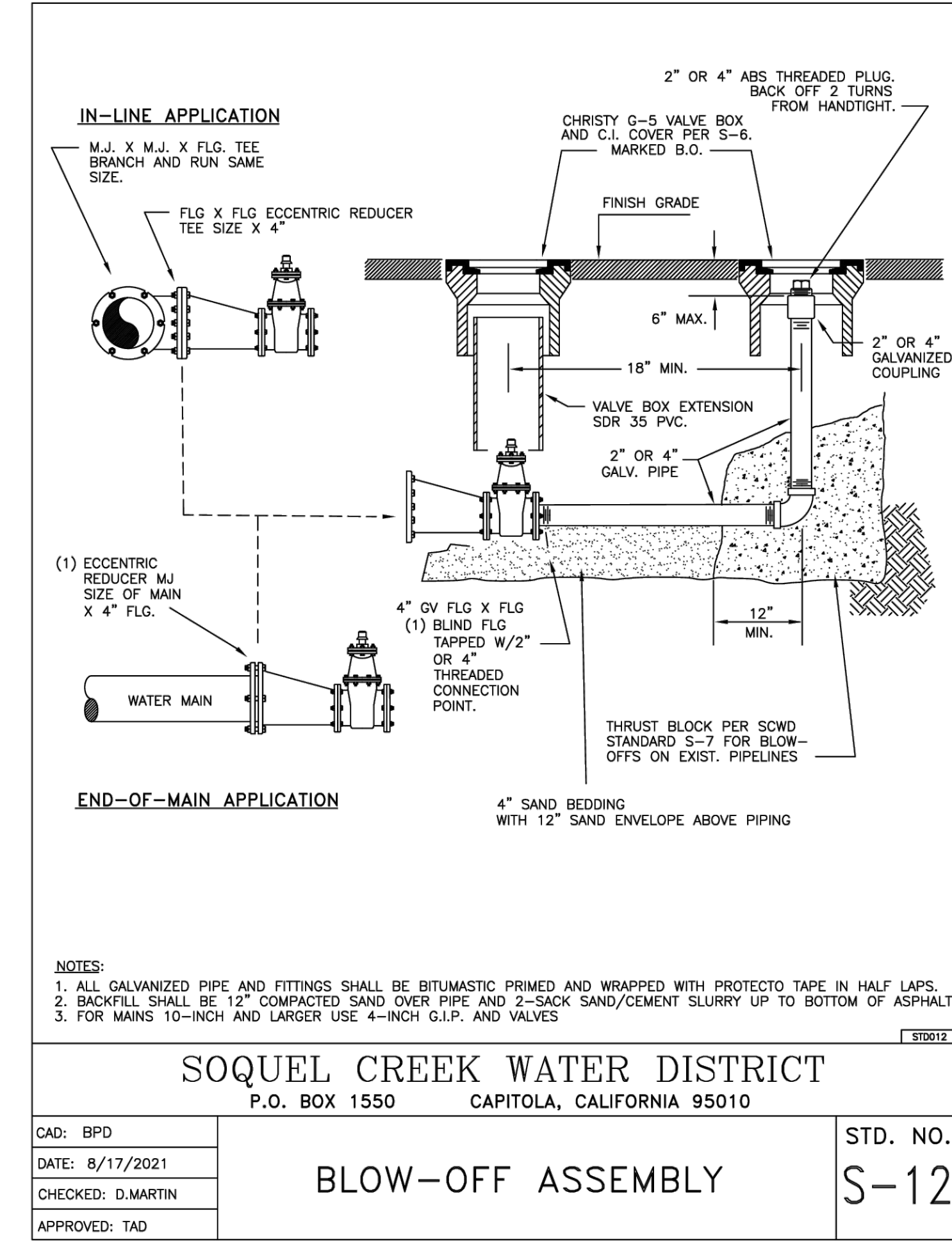
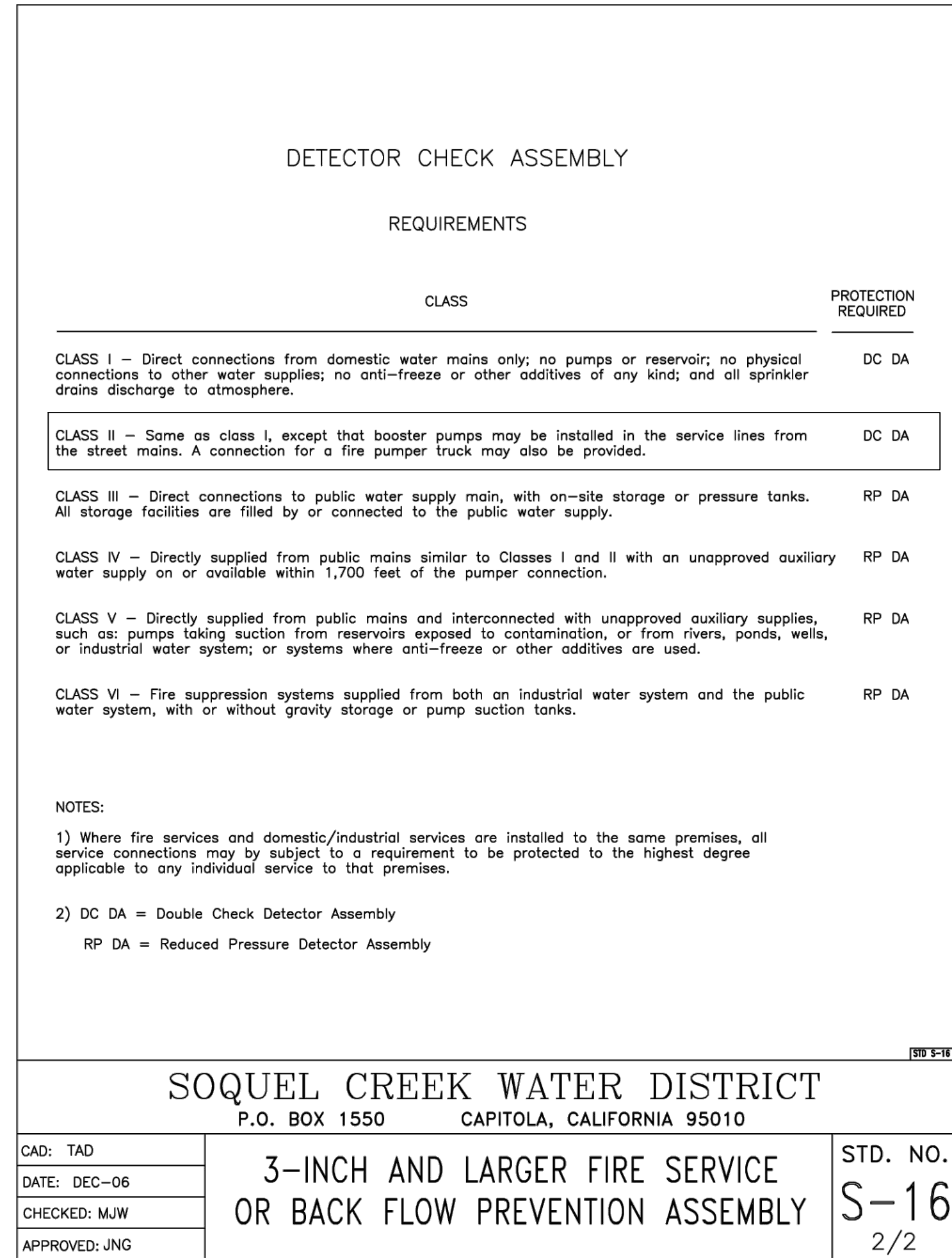
CONSTRUCTION DETAILS

DRAWN BY: RP
CHECKED BY: CD/SM
JOB NUMBER: 21162

SHEET W5.0

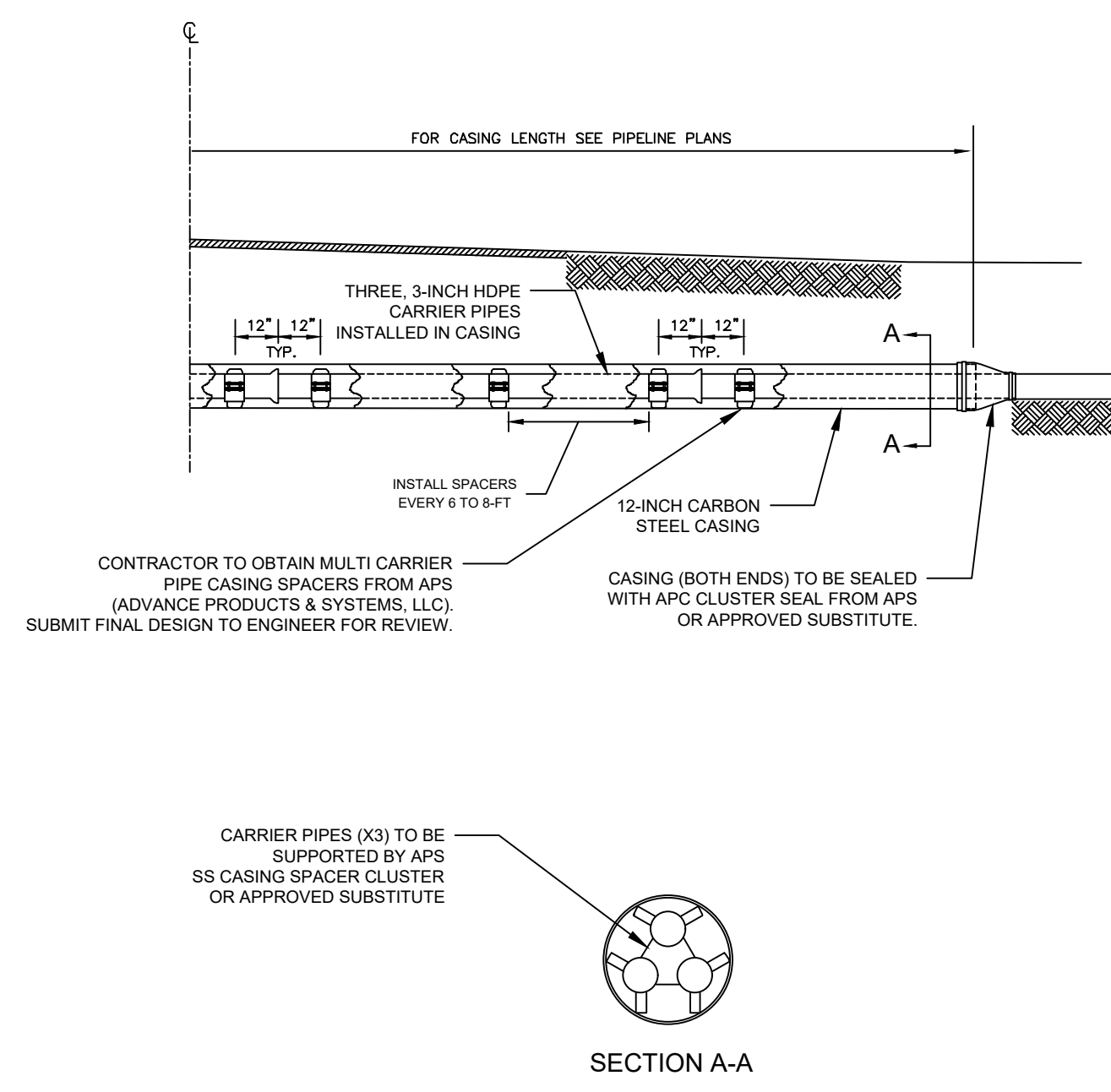


1 BACKFLOW PREVENTION ASSEMBLY DETAIL

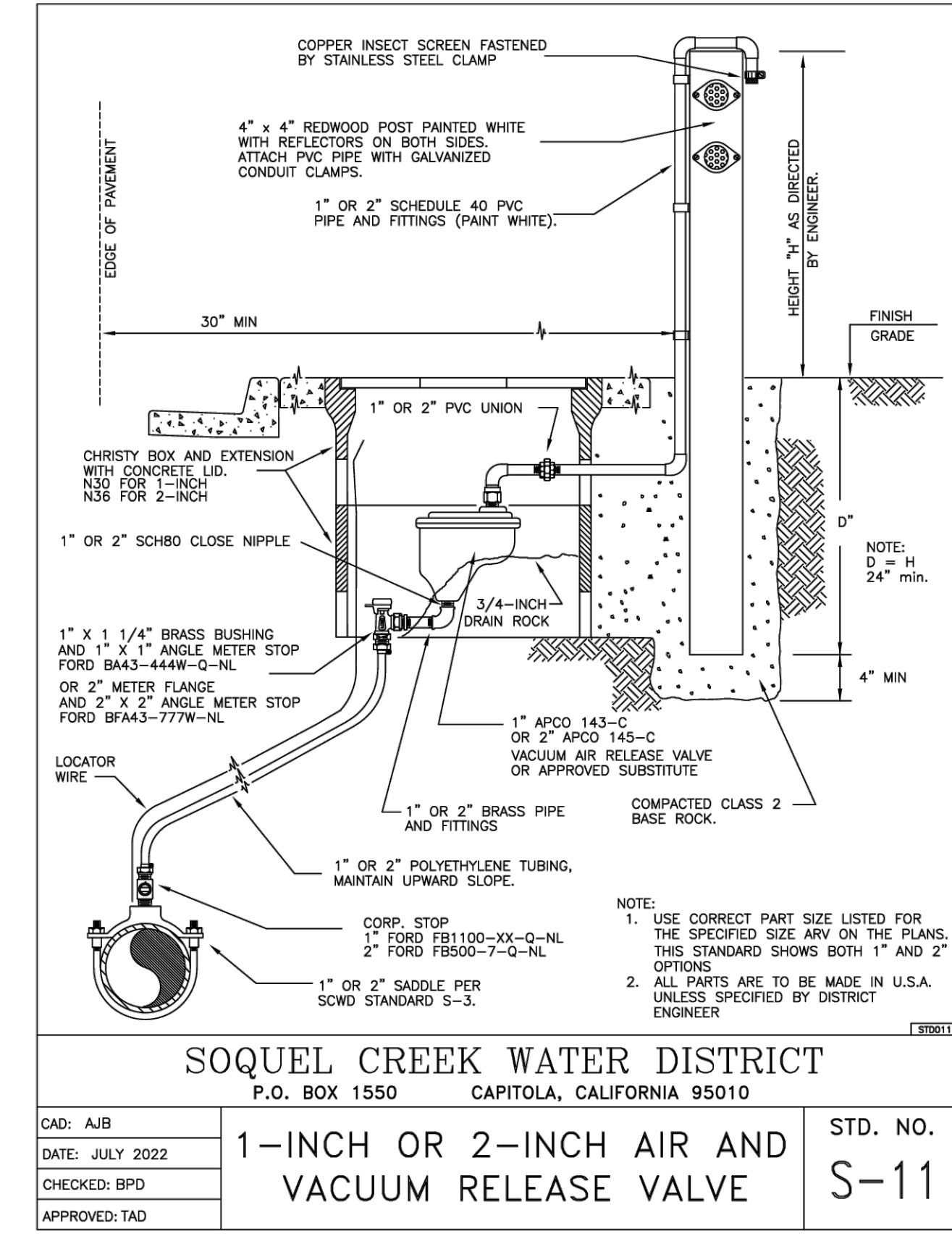


3 SERVICE LINE TRENCH DETAIL

Note: The casing will be owned and maintained by Renaissance High School.



4 CASING INSTALLATION DETAIL



5 UNDERGROUND COMBO AIR/VACUUM VALVE DETAIL

REV.	DESCRIPTION	DATE
1	60% PLAN SUBMITTAL	12/2022
2	90% PLAN SUBMITTAL	12/2023
3	100% DRAFT PLAN SUBMITTAL	01/2025

WHA
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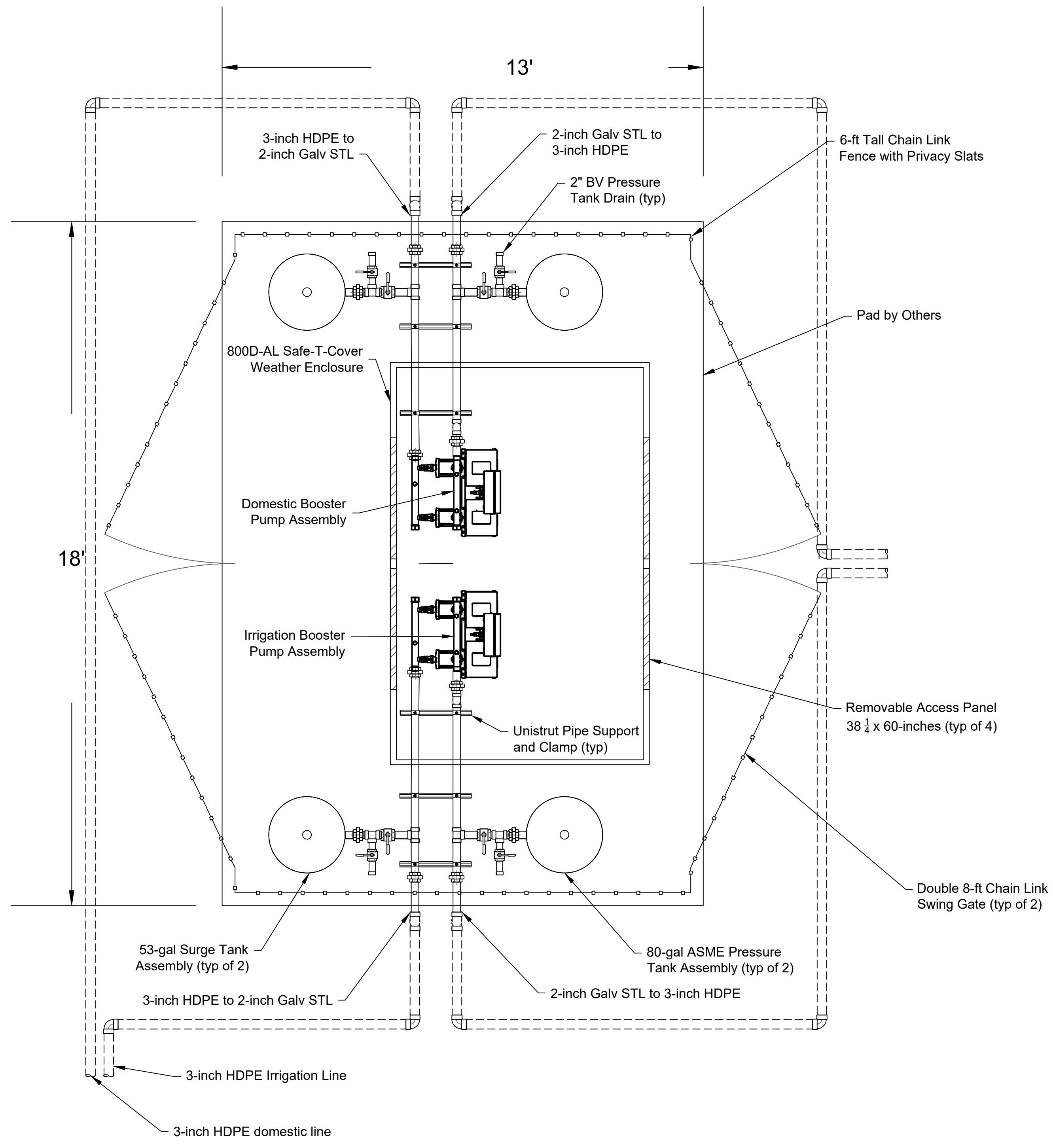


RENAISSANCE HIGH SCHOOL
WATER SYSTEM CONSOLIDATION

11 Spring Valley Rd.
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CONSTRUCTION DETAILS

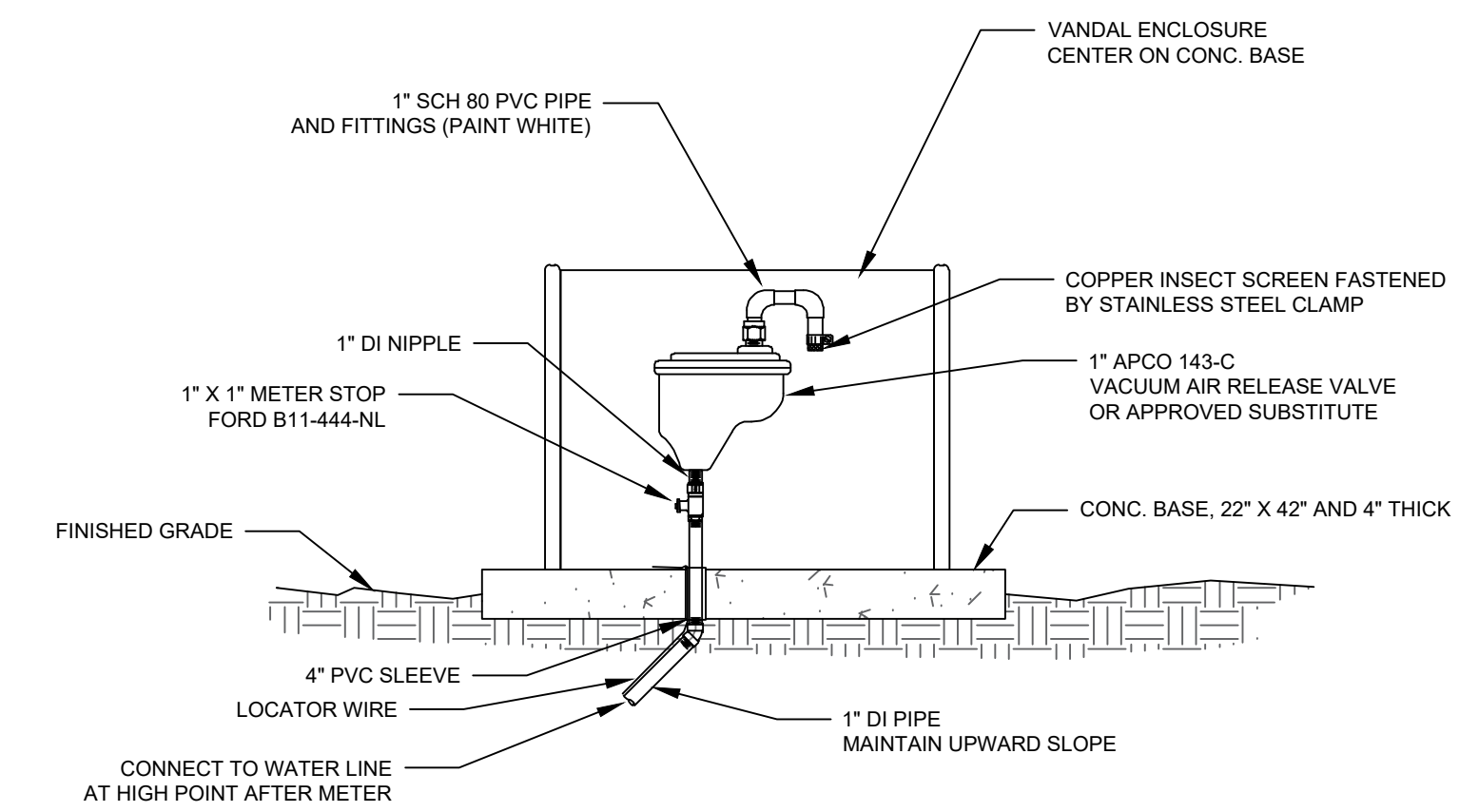
DRAWN BY: RP
CHECKED BY: CD/SM
JOB NUMBER: 2T162



1 BACKFLOW PREVENTION ASSEMBLY DETAIL

NOTES

- BOOSTER PUMP: MPCE2 CME5-5 DUPLEX BOOSTER PAQ BY GRUNDFOS W(2) 2HP 3X208-230V INTEGRAL VFD PUMP FOR 50GPM at 173' TDH SYSTEM REQUIREMENTS, CONNECTED TO A 316SS MANIFOLD, MOUNTED ON A SS SKID
- PRESSURE TANKS: 80 GAL WX448-C-R WELL-X-TROL ASME 125 PSIG PRESSURE TANK W/ SEISMIC RESTRAINTS PER MANUFACTURER
- SURGE TANKS: AMTROL 53 GAL D-7 DIATROL D-SERIES
- CONTRACTOR TO PAINT THE PRESSURE TANKS WITH TWO COATS OF OUTDOOR RATED PAINT (I.E., OUTDOOR RATED PAINT TO BE PAINTED OVER THE FACTORY PAINTED PRIMER COAT)
- INSTALL SAFE-T-COVER 800D-AL WEATHER ENCLOSURE OVER BOOSTER PUMP PAD TO PROTECT PUMP ASSEMBLIES
- DEPTH OF CONCRETE PAD 6"
- ALL ABOVE GROUND PIPING SHALL 2" BE GALVANIZED STEEL AND SECURED TO PAD VIA 1-5/8" UNISTRUT WITH UNISTRUT P1100 SERIES PIPE CLAMPS
- ALL UNDERGROUND PIPE SHALL BE HDPE
- THE TRENCH FOR UNDERGROUND PIPE RUNNING HORIZONTAL TO CONCRETE PAD SHALL BE AT LEAST 30-INCHES FROM INSIDE EDGE OF PIPE TRENCH TO CONCRETE PAD



- NOTE:
- USE CORRECT PART SIZE LISTED FOR SPECIFIC SIZE ARV ON PLANS
 - VANDAL ENCLOSURE SHALL BE GUARDSHACK GS-2 OR APPROVED EQUAL
 - ARE PARTS ARE TO BE MADE IN U.S.A. UNLESS SPECIFIED BY DISTRICT ENGINEER

2 ABOVE GROUND COMBO AIR/VACUUM VALVE DETAIL

REV	DESCRIPTION	BY	DATE
1	60% PLAN SUBMITTAL	RP	12/2022
2	90% PLAN SUBMITTAL	RP	12/2023
3	100% DRAFT PLAN SUBMITTAL	RP	01/2025

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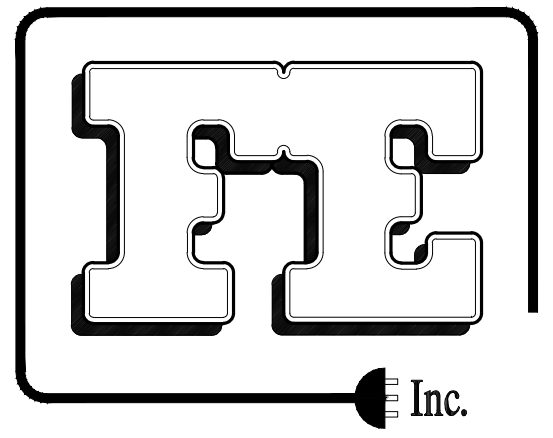
CONSTRUCTION
DETAILS
DRAWN BY: RP
CHECKED BY: CD/SM
JOB NUMBER: 2T162

SHEET
W5.2

SYMBOLS AND ABBREVIATIONS

SYMBOLS & ABBREVIATIONS SHOWN ARE FOR GENERAL USE
DISREGARD THOSE WHICH DO NOT APPEAR ON THE PLANS

LIGHT FIXTURES		CONDUIT/WIRING	
	FLUORESCENT - ANY MOUNT		CONCEALED IN HALLS OR CEILING; OR EXPOSED WHEN SPECIFICALLY NOTED
	FLUORESCENT STRIP - ANY MOUNT		UNDER FLOOR SLABS OR UNDERGROUND
	INCAND. OR HID - CEILING RECESSED		HOMERUN TO PANEL, TERMINAL OR EQUIPMENT INDICATED
	INCAND. OR HID - SURF. OR SUSP.		DENOTES NEUT. WIRE
	INCAND. OR HID - WALL MOUNT		DENOTES PHASE WIRES
	SITE LIGHT - ARM MOUNTED ON POLE		BRANCH CIRCUIT WIRING ID.
	SITE LIGHT - GROUND, POST OR POLE MOUNTED		CONDUIT STUB-OUT
	EXIT LIGHT - ANY MOUNT SEE PLANS FOR MTG.		CONDUIT UP OR DOWN-AS NOTED
	EMERGENCY LIGHTING SET		TELEPHONE SYSTEM
SWITCHES			TELEVISION SYSTEM
ALL SWITCHES 20A - 120/277V - U.O.N.			FIRE ALARM SYSTEM
SWITCH MOUNTING = +48" TO TOP OF ELECTRICAL BOX U.O.N.			EMERGENCY SYSTEM
	S.P.S.T.		GROUND SYSTEM
	SINGLE LOAD MOTION SENSOR SWITCH		COMPUTER SYSTEM
	DOUBLE LOAD MOTION SENSOR SWITCH		EXISTING CONDUIT/WIRING
	3 - WAY		INDICATES (E) TO BE REMOVED
	4 - WAY	MISCELLANEOUS	
	S.P.S.T. WITH PILOT LIGHT		MOTOR CONNECTION
	S.P.S.T. KEY OPERATED		FUSED DISCONNECT SWITCH-FUSED WITH DUAL-ELEMENT TIME DELAY FUSES, SIZED PER EQUIP. MFGR'S NAME PLATE DATA
	COMBINATION SWITCH/MOTION DETECTOR WHERE 'X' INDICATES THE NUMBER OF CIRCUITS CONTROLLED.		DISCONNECT SWITCH-NONFUSED U.O.N.
	WALL MOUNTED OCCUPANCY SWITCH		MAGNETIC MOTOR STARTER
	PUSHBUTTON - SEE DWGS FOR TYPES		COMBINATION MAG STARTER & FUSED DISCONNECT SWITCH
	OCCUPANCY SENSOR - CEILING MOUNTED		GROUND ROD-DIRECT BURIED
	OCCUPANCY SENSOR - WALL MOUNTED		GROUND ROD-WITH ACCESSIBLE BOX
	EMERGENCY DISCONNECT PUSHBUTTON		FEEDER TAG
OUTLETS			EQUIP. ID TAG-SEE SHEET NOTES ON SAME SHEET WHERE SYMBOL APPEARS U.O.N.
ALL RECEPTACLE OUTLETS 20A - 125V. - U.O.N.			SHEET NOTE TAG
OUTLET MOUNTING = +18" TO BOTTOM OF ELECTRICAL BOX U.O.N.			TRANSFORMER PAD MOUNT OR DRY TYPE
	SINGLE RECEPTACLE - WALL MOUNT		SWITCHGEAR OR MCC
	DUPLEX RECEPTACLE - WALL MOUNT		PANELBOARD - FLUSH MOUNTED
	4-PLEX RECEPTACLE - WALL MOUNT		PANELBOARD - SURFACE MOUNTED
	DUPLEX RECEPTACLE-MOUNTED ABOVE COUNTER (VERIFY HEIGHT)		SPECIAL PURPOSE EQUIP., DEVICE, PANEL OR TERMINAL CABINET (F.A., LIGHTING CONTROL, ETC.) EQUIPMENT PARAMETERS INDICATED ON PLANS
	SINGLE ISO. GND. RECEPT. - WALL MOUNT		CONCRETE PULLBOX SIZE INDICATED ON PLANS
	DUPLEX ISO. GND. RECEPT. - WALL MOUNT		INDICATES MOUNTING HEIGHT TO CENTER OF DEVICE OR EQUIP. ABOVE FINISHED FLOOR.
	DUPLEX RECEPTACLE - WITH GROUND FAULT INTERRUPTER		SUBSCRIPT LETTER INDICATES CONTROL NUMBER
	POWER OUTLET - SEE DWGS FOR THIS TYPES		FIGURE INDICATES BRANCH CIRCUIT NUMBER
	CLOCK OUTLET - 15A-125V @ +90° U.O.N.	ABBREVIATIONS	
	COMPUTER DATA OUTLET-WALL MOUNT	AFG	ABOVE FINISHED GRADE (N) NEW
	TELE/DATA COMBO. OUTLET-WALL MOUNT	ARCH.	ARCHITECT NL NOT IN CONTRACT
	TELEPHONE OUTLET-WALL MOUNT	B.C.	BARE COPPER OFCI OWNER FURNISHED
	TV OUTLET - WALL MOUNT	C.	CONDUIT CONTRACTOR INSTALLED EQUIPMENT
	FLOOR RECEPTACLE - 20A	CKT	CIRCUIT
	FLOOR COMPUTER DATA OUTLET	C.O.	CONDUIT ONLY PH. PHASE
	FLOOR TELEPHONE OUTLET	CONC.	CONCRETE POC POINT OF CONNECTION
	FLOOR TV OUTLET	CONTR.	CONTRACTOR P/O PART OF
	THERMOSTAT OUTLET BOX @ +48" U.O.N.	DISC.	DISCONNECT SW SWITCH
	JUNCTION BOX - WALL MOUNT	(E)	EXISTING SWBD SWITCHBOARD
	JUNCTION BOX - CEILING MOUNT	ELEC.	ELECTRICAL T., TELE. TELEPHONE
	SPEAKER - WALL MOUNT	EM	EMERGENCY TERM. TERMINAL
	SPEAKER - CEILING MOUNT	(F)	FUTURE TSP TWISTED
FIRE ALARM		FLA	FIRE ALARM TSP TWISTED
	HEAT DETECTOR	FLA	FULL LOAD AMPS SHIELDED PAIR
	TAMPER SWITCH	G, GND.	GROUND (ELEC.) TV TELEVISION
	SMOKE DETECTOR	UG	UNDERGROUND UNLESS OTHERWISE NOTED
	SPRINKLER RISER FLOW SWITCH	GEC	GROUNDING UON UNLESS OTHERWISE NOTED
	FIRE SMOKE DAMPER	GFI	ELECTRODE CONDUCTOR WEATHERPROOF
	*VOICE ANNUNCIATOR/STROBE-WALL MOUNT	INTERRUPT	GROUND FAULT WP WEATHERPROOF
	*HORN/STROBE-ANY MOUNT-ANY TYPE	ISO GND.	ISOLATED GND. XFMR TRANSFORMER
	*STROBE ONLY - ANY MOUNT	KA	KILO AMPERE
	*HORN-ANY MOUNT-ANY TYPE	MECH.	MECHANICAL
	MANUAL PULL STATION @ +48" U.O.N.	MCP	MOTOR CIRCUIT PROTECTOR
	ALARM BELL		
	*+80"A.F.F. TO BOTTOM OF DEVICE OR 6" BELOW CEILING WHICHEVER IS LOWER		

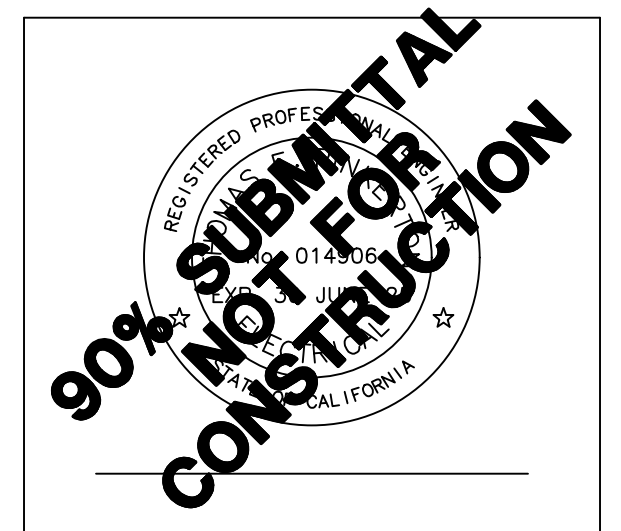


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Project No.: Date: 12/21/23
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SYMBOLS &
ABBREVIATIONS

Scale: AS NOTED
Sheet No:

E1.0

Sheets

ELECTRICAL SPECIFICATIONS

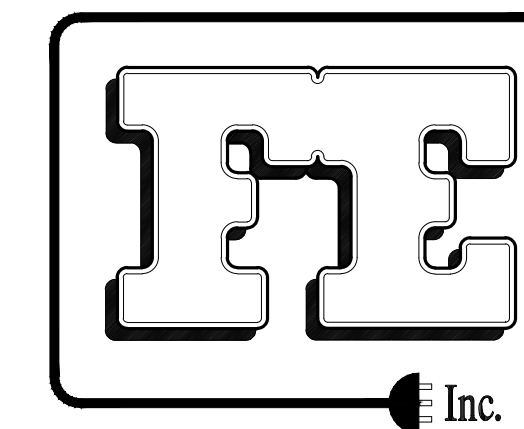
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1. ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH THE 2022 CALIFORNIA ELECTRICAL CODE (C.E.C.) THE LATEST EDITION OF CAL/OSHA, AND ALL APPLICABLE LOCAL RULES AND REGULATIONS.
2. FURNISH LABOR AND MATERIAL AND INSTALL ELECTRICAL WORK COMPLETE AS SHOWN ON THE DRAWINGS. WORK SHALL INCLUDE ALL MATERIALS ON THE PLANS AND THAT WHICH IS NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION OF THE ELECTRICAL SYSTEMS SHOWN OR DESCRIBED HEREIN.
3. DO ALL CUTTING, PATCHING, REPAIRING NECESSARY FOR THE PROPER INSTALLATION OF WORK AND REPAIR ANY DAMAGE DONE, COORDINATING THIS WORK WITH THAT OF OTHER CRAFTS.
4. CONTRACTOR SHALL BE HELD TO HAVE EXAMINED THE SITE AND COMPARED IT WITH THE SPECIFICATIONS AND PLANS AND TO HAVE SATISFIED HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. HE SHALL BE HELD RESPONSIBLE FOR KNOWLEDGE OF ALL EXISTING CONDITIONS WHETHER OR NOT ACCURATELY DESCRIBED. NO SUBSEQUENT ALLOWANCE SHALL BE MADE FOR ANY EXTRA EXPENSE DUE TO FAILURE TO MAKE SUCH EXAMINATION.
5. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL MATERIALS SHALL BE NEW AND U.L. LISTED.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY FACILITIES FOR TEMPORARY CONSTRUCTION POWER. ENERGY COSTS SHALL BE PAID BY OWNER.
7. PAY ALL INSPECTION AND OTHER APPLICABLE FEES; PROCURE ALL LICENSES AND PERMITS NECESSARY TO THE PROSECUTION AND COMPLETION OF ELECTRICAL WORK.
8. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS INSTALLED UNDER THIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CONTRACTOR IS NOT REQUIRED TO GUARANTEE LAMPS AFTER ACCEPTANCE.
9. VERIFY EXISTING CONDITIONS IN FIELD AND MAKE ADJUSTMENTS AS REQUIRED TO SUIT SUCH CONDITIONS.
10. ALL WORK REQUIRING INTERRUPTION OF EXISTING CIRCUITS, USE OF OWNER'S FACILITIES, OR DISRUPTION OR INTERRUPTION OF ONGOING OWNER ACTIVITIES SHALL BE COORDINATED WITH THE OWNER.
11. AS-BUILTS: SUBMIT TO THE OWNER ONE (1) MARKED UP PRINT OF "AS-BUILT" CONDITIONS OF ALL WORK UNDER THIS SECTION.
12. SAFETY PRECAUTIONS: PROVIDE AND MAINTAIN THROUGHOUT THE WORK ADEQUATE SAFEGUARDS INCLUDING BARRIERS, WARNING SIGNS, ENCLOSURES AND LIGHTS, TO PREVENT ACCIDENTAL INJURY TO PERSON OR DAMAGE TO PROPERTY.
13. PROTECTION: PROTECT ALL WORK, MATERIALS AND EQUIPMENT FROM DAMAGE FROM ANY CAUSE WHATSOEVER AND PROVIDE ADEQUATE AND PROPER STORAGE FACILITIES DURING THE PROGRESS OF THE WORK. PROVIDE FOR THE SAFETY AND GOOD CONDITION OF ALL WORK UNTIL FINAL ACCEPTANCE OF WORK BY THE OWNER, AND REPLACE ALL DAMAGED OR DEFECTIVE WORK, MATERIALS, AND EQUIPMENT BEFORE REQUESTING FINAL ACCEPTANCE.
14. DRAWINGS: THE GENERAL ARRANGEMENT OF OUTLETS, AND EQUIPMENT, AS SHOWN ON THE PLANS, IS DIAGRAMMATIC AND APPROXIMATELY CORRECT AS TO THE LOCATIONS, WHERE MINOR CHANGES ARE REQUIRED BECAUSE OF STRUCTURAL CONDITIONS OR FOR THE CONVENIENCE OF THE OWNER. SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE LOCATIONS OF ALL OUTLETS, ETC., WITH RESPECT TO THE WORK OF OTHERS. NO EXTRAS WILL BE ALLOWED ON ACCOUNT OF MOVING WORK UNDER THIS SECTION TO AVOID INTERFERENCE WITH WORK OF OTHER CONTRACTORS.
15. SUBMITTALS: CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF ALL PROPOSED MATERIALS AND EQUIPMENT WITHIN 15 DAYS OF AWARD OF CONTRACT. CONTRACTOR SHALL MAKE NO SUBSTITUTIONS OF MATERIALS OR EQUIPMENT WITHOUT WRITTEN APPROVAL OF THE OWNER. ALL DIMENSIONAL OR ELECTRICAL CHANGES, OR CHANGES TO OTHER WORK WHICH ARE REQUIRED BY, OR ARE A RESULT OF, AN ACCEPTABLE ELECTRICAL SUBSTITUTION SHALL BE THE SOLE AND COMPLETE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
16. INSPECTION: ALL WORK AND MATERIALS COVERED BY THIS SPECIFICATION SHALL BE SUBJECT TO INSPECTION AT ANY AND ALL TIMES BY REPRESENTATIVES OF THE OWNER. WORK SHALL NOT BE CLOSED IN OR COVERED BEFORE INSPECTION AND APPROVAL BY THE OWNER OR HIS REPRESENTATIVE. ANY MATERIAL FOUND NOT CONFORMING WITH THESE SPECIFICATIONS SHALL, WITHIN 3 DAYS AFTER BEING NOTIFIED BY THE OWNER, BE REMOVED FROM PREMISES; IF SAID MATERIAL HAS BEEN INSTALLED, ENTIRE EXPENSE OF REMOVING AND REPLACING SAME, INCLUDING ANY CUTTING AND PATCHING THAT MAY BE NECESSARY, SHALL BE BORNE BY THIS CONTRACTOR.
17. TESTS: UPON COMPLETION OF WORK AND ADJUSTMENT OF ALL EQUIPMENT, ALL SYSTEMS SHALL BE TESTED UNDER THE DIRECTION OF THE OWNER TO DEMONSTRATE THAT ALL EQUIPMENT FUNCTIONS ELECTRICALLY IN THE MANNER REQUIRED. ALL SYSTEMS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS AND SHALL BE FREE FROM MECHANICAL AND ELECTRICAL DEFECTS. ALL CIRCUITS SHALL BE TESTED FOR PROPER NEUTRAL CONNECTIONS. CONTRACTOR SHALL REMOVE AND REPLACE ALL DEFECTIVE WORKMANSHIP AND/OR MATERIALS AT NO EXPENSE TO OWNER.
18. CLEANUP: AT COMPLETION OF WORK, THIS CONTRACTOR SHALL CLEAN UP AND REMOVE ALL DEBRIS AND MATERIALS NOT INSTALLED IN WORK, LEAVING PREMISES CLEAN.

19. CONDUCTORS;
20. CONDUCTORS SHALL BE INSULATED COPPER, NO. 12 AWG MINIMUM SIZE, THHN/THWN, 600 VOLT, SOLID OR STRANDED (EXCEPT FOR LOW VOLTAGE WIRING AND WHERE SPECIFICALLY NOTED OTHERWISE ON THE PLAN)
21. ALL CONDUCTORS NO. 8 AND LARGER SHALL BE STRANDED.
22. WIRE COLOR CODE SHALL BE AS FOLLOWS:

	120/240V
A PHASE -	BLACK
B PHASE -	ORANGE
C PHASE -	BLUE
NEUTRAL -	WHITE
GROUND -	GREEN
23. FOR CONDUCTORS NO. 6 AND LARGER, INSULATION COLOR MAY BE BLACK WITH TAPE BANDS (COLORED PER ABOVE) LOCATED AT EACH END OF THE CONDUCTOR RUN AND AT ALL OTHER LOCATIONS REQUIRED BY THE C.E.C.
24. ALL CONDUCTORS SHALL BE RUN IN APPROVED RACEWAY U.O.N.
25. CONDUCTOR SPLICES: JOIN THE CONDUCTORS SECURELY, BOTH MECHANICALLY AND ELECTRICALLY USING SCREW-ON TYPE CONNECTORS FOR WIRE SIZES AWG#6 AND SMALLER. THE PREFERRED PRODUCT IS WIRE-NUT® TWIST ON CONNECTOR BY IDEAL.
26. USE HIGH COMPRESSION BARREL SPLICES FOR CONDUCTORS LARGER THAN AWG#6. THE PREFERRED BARREL SPLICE IS BURNDY HYLINK™ SPLICE. THE SPLICED AREA SHALL BE COVERED TO PROVIDE EQUAL OR GREATER INSULATION THAN THAT OF THE ADJOINING CONDUCTORS. INSULATION OVER THE ORIGINAL INSULATION SHALL EXTEND 3 TO 5 OVERALL DIAMETERS OF THE INSULATED WIRE. THE PREFERRED INSULATION PRODUCT IS COLD SHRINK™ BY 3-M COMPANY.
27. CONDUIT AND WIREWAYS:
28. ALL CONDUITS SHALL BE U.L. LISTED AND BEAR THE LABEL OF THE NATIONAL BOARD OF FIRE UNDERWRITERS.
29. RIGID NONMETALLIC CONDUIT: SCHEDULE 40 PVC PLASTIC FOR UNDERGROUND OR UNDER SLAB INSTALLATIONS, RATED 90 DEGREES C. WITH GLUE-ON PVC COUPLINGS AND FACTORY MADE ELBOWS AND SWEEPS; CARLON "PLUS 40".
30. ELECTRICAL METALLIC TUBING (EMT): GALVANIZED STEEL. FOR DRY INTERIOR WORK PROVIDE STEEL SET-SCREW TYPE FITTINGS. FOR DAMP AND WET INTERIOR LOCATIONS AND FOR EXTERIOR WORK PROVIDE WRENCH TIGHTENED, COMPRESSION TYPE (WATERTIGHT) STEEL FITTINGS U.O.N. DIE CAST ZINC, MALLEABLE IRON OR INDENTING TYPE FITTING ARE NOT PERMITTED. ELBOWS 1" DIAMETER AND LARGER SHALL BE FACTORY MADE.
31. RIGID STEEL CONDUIT (GRS): HOT-DIPPED GALVANIZED WITH THREADED ONE-PIECE COUPLINGS AND FACTORY MADE ELBOWS. NIPPLES THROUGH 12" IN LENGTH SHALL BE FACTORY MADE. CONNECTORS THREADED TYPE WITH BONDING LOCKNUT, INSULATED THROAT AND NEOPRENE O-RING. PROVIDE GRS FOR OUTDOOR INSTALLATIONS EXPOSED TO WEATHER.
32. GENERAL PURPOSE WIREWAYS AND AUXILIARY GUTTERS: GALVANIZED SHEET STEEL WITH SCREW COVERS AND ANSI-49 GRAY EPOXY PAINT FINISH OVER A CORROSION RESISTANT PHOSPHATE PRIMER. NEMA-1 FOR INDOOR USE, NEMA-3R (RAINTIGHT) FOR OUTDOOR USE.
33. NO ELECTRICAL CONDUITS SHALL BE COVERED BEFORE INSPECTION AND APPROVAL BY THE OWNER. CONTRACTOR SHALL NOTIFY OWNER THAT CONDUITS ARE READY FOR INSPECTION PRIOR TO INSTALLATION OF CONDUCTORS.
34. CONDUITS SHALL BE INSTALLED IN A RIGID AND SATISFACTORY MANNER WITH SUPPORT SPACED NOT MORE THAN 8 FEET APART U.O.N. CONDUITS SHALL BE INSTALLED TO OUTLET BOXES WITH LOCKNUTS AND BY BUSHING OR OTHER APPROVED DEVICES. CONDUITS SHALL BE JOINED BY APPROVED CONDUIT COUPLINGS AND SHALL HAVE ENDS BUTTED IN ALL CASES WHERE COUPLINGS ARE USED. CONDUITS SHALL BE TIGHTLY CORKED AND OTHERWISE WELL PROTECTED DURING CONSTRUCTION AND BLOWN OUT AND SWABBED BEFORE WIRES ARE PULLED. REAM ALL CONDUITS ENDS AFTER CUTTING. BENDS SHALL BE MADE WITH STANDARD CONDUIT ELBOWS OR CONDUIT BENT TO NOT LESS THAN SAME RADIUS. ALL BENDS SHALL BE FREE FROM DENTS OR FLATTENING.
35. PVC CONDUITS: MAKE COUPLINGS AND CONNECTORS WATERTIGHT IN ALL RUNS. UTILIZE SOLVENT CEMENT OF TYPE APPROVED BY CONDUIT MANUFACTURER. PROVIDE ADAPTERS AND LOCKNUTS WHERE CONDUIT IS ATTACHED TO METAL BOXES AND PANELS.
36. RACEWAY RUNS SHOWN ON DRAWINGS ARE DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. DETERMINE EXACT LOCATIONS OF ALL UNDIMENSIONED RACEWAY RUNS IN FIELD.
37. LOCATIONS AND ROUTES OF EXPOSED RACEWAYS REQUIRE OWNER APPROVAL PRIOR TO INSTALLATION. PREPARE LAYOUTS OF PROPOSED EXPOSED RACEWAY LOCATIONS/ROUTES AND COORDINATE WITH THE OWNER.
38. COORDINATE PLANNED ROUTES WITH WORK OF OTHER TRADES, INCLUDING MECHANICAL, PLUMBING AND FIRE SPRINKLER.
39. GROUNDING: ALL DEVICES, FIXTURES, RACEWAY, EQUIPMENT ETC. SHALL BE GROUNDED VIA A GROUNDING CONDUCTOR RUN THROUGH THE RACEWAY OR CABLE WIRING DEVICES SHALL BE GROUNDED THROUGH A COPPER WIRE, SIZED TO COMPLY WITH CODES. A GROUNDING CONDUCTOR SIZED TO COMPLY WITH CODES SHALL BE INSTALLED IN ALL CONDUITS AND CABLES.
40. GROUND RODS: COPPER OR COPPER-CLAD STEEL, MINIMUM 3/4" DIAMETER. PROVIDE MINIMUM 8 FOOT LONG RODS WHERE DIRECT BURIED (NON-ACCESSIBLE) AND MINIMUM 10 FOOT LONG RODS WHERE INSTALLED IN GROUND WELLS OR OTHER ACCESSIBLE LOCATIONS.
41. JUNCTION, PULL, DEVICE, AND FIXTURE OUTLET BOXES SHALL BE GALVANIZED SHEET STEEL FOR CONCEALED WORK CAST METAL FOR EXPOSED WORK, AND SHALL HAVE VOLUMES AS REQUIRED BY C.E.C. NO BOXES SMALLER THAN 4" SQUARE (OR OCTAGON FOR LIGHTING OUTLETS) SHALL BE INSTALLED, EXCEPT WHERE SPECIFICALLY CALLED FOR ON PLANS. PLASTIC BOXES ARE NOT PERMITTED.
42. CONCRETE PULL BOXES: PRE-CAST, REINFORCED CONCRETE CONSTRUCTION WITH END AND SIDE KNOCKOUTS, NONSETTLING SHOULDERS, EXTENSIONS AS REQUIRED, AND CONCRETE BASES WITH DRAIN HOLE. UNLESS OTHERWISE INDICATED, PROVIDE REINFORCED CONCRETE LIDS WITH HOLD-DOWN BOLTS AND LIFTING PROVISIONS. LIDS SHALL BE LABELED AS NOTED ON THE DRAWINGS. BOXES LOCATED IN VEHICULAR TRAFFIC AREAS SHALL HAVE H/20 LOADING RATING AND CHECKER PLATE STEEL COVERS WITH HOLD-DOWN BOLTS. BOXES SHALL BE OF SIZES INDICATED ON THE DRAWINGS AND SHALL BE

- MANUFACTURED BY CHRISTY, BROOKS, UTILITY VAULT CO., OR APPROVED EQUAL.
43. DISCONNECT AND SAFETY SWITCHES: DISCONNECTS SHALL BE EXTERNALLY OPERABLE SAFETY SWITCHES WITH QUICK-MAKE, QUICK-BREAK MECHANISM CAPABLE OF SWITCHING TEN (10) TIMES SWITCH RATING AND WITH COVER INTERLOCK WITH DEFEAT MECHANISM FOR MAINTENANCE. PROVIDE SWITCHES WITH NUMBER OF POLES, AMPERAGE, VOLTAGE, (HP RATINGS), TYPES OF ENCLOSURES AND FUSIBLE OR NON-FUSIBLE AS INDICATED AND AS REQUIRED FOR THE PARTICULAR APPLICATION. SWITCHES SHALL BE GENERAL (HEAVY) DUTY TYPE UNLESS OTHERWISE INDICATED. PROVIDE NEMA-1 ENCLOSURES FOR INDOOR (NEMA 3R FOR OUTDOORS) LOCATIONS UNLESS OTHERWISE INDICATED. ALL DISCONNECT SWITCHES SHALL BE EQUIPPED WITH DEVICES ENABLING THE SWITCH TO BE EXTERNALLY LOCKED IN THE OPEN POSITION.
 44. BRANCH CIRCUIT PANELBOARDS PANELS: SHALL BE COPPER BUSSED, WITH RATINGS, MAINS AND BRANCH BREAKERS AS NOTED IN THE PANELBOARD SCHEDULE ON THE DRAWINGS. PANELS SHALL BE EQUIPPED WITH COPPER GROUND BUS. BRANCH BREAKERS SHALL BE OF THE BOLT-ON TYPE UNLESS OTHERWISE NOTED, AND HAVE ON-TRIPPED-OFF POSITIONS. MULTI-POLE BREAKERS SHALL BE INTERNALLY COMMON TRIPPED. BREAKERS SHALL BE RATED MINIMUM 10,000 A.I.C. RMS (SYM) AT 120 AND 240 VAC. CIRCUITS SHALL BE NUMBERED WITH ODD NUMBERS ON LEFT SIDE AND EVEN NUMBERS ON RIGHT SIDE. EACH CIRCUIT BREAKER SHALL HAVE PERMANENTLY FIXED NUMBER EITHER ENGRAVED IN BAKE-LITE AND ATTACHED TO PANEL FRONT, STAMPED IN THE STEEL PANEL FRONT OR SNAPPED INTO THE BREAKER BODY. STICK-ON "DYMO" TYPE NUMBERS NOT ACCEPTABLE. PROVIDE A TYPEWRITTEN DIRECTORY UNDER A METAL FRAMED PLASTIC COVER ON INSIDE OF PANEL DOOR. DIRECTORY SHALL SHOW CIRCUIT NUMBER AND DESCRIPTION OF CIRCUIT CONTROLLED. CABINETS SHALL BE FLUSH OR SURFACE MOUNTED AS INDICATED AND PROVIDED WITH SINGLE DOOR TRIM. DOOR TRIM SHALL HAVE CONCEALED MOUNTING LATCHES, CONCEALED DOOR HINGES, AND FLUSH LATCH AND HOOK. PANELS SHALL HAVE NEMA 3R RATED CONSTRUCTION. CABINET FRONT DOOR AND TRIM AND PANEL CAN (ON SURFACE MOUNTED PANELS) SHALL BE FINISHED IN GRAY ENAMEL OVER RUST INHIBITING PRIMER COAT. PANELS SHALL BE MINIMUM OF 5-3/4" DEEP, 20" WIDE, AND SHALL BE MOUNTED WITH TOP OF CABINET 0'-0" ABOVE FINISHED FLOOR. PANELS SHALL MEET NEMA STANDARDS AND BEAR UNDERWRITERS' LABEL. PANELBOARDS SHALL BE THE PRODUCTS OF ONE MANUFACTURER AND SHALL BE SQUARE D COMPANY OR APPROVED SIEMENS, CUTLER HAMMER (WESTINGHOUSE GRADE) OR GENERAL ELECTRICAL EQUAL.
 45. CONDUCTORS ENTERING AND LEAVING SWITCHBOARDS SHALL BE NEATLY BUNDLED USING NO. 12 WAXED LINEN LACING CORD OR COMMERCIALY PRODUCED CABLE TIES SUCH AS T88 STRAPS. CONDUCTORS SHALL BE CLEARLY MARKED AND IDENTIFIED AS TO TERMINAL NUMBER AND SLIPPED OVER THE CONDUCTOR NEAR ITS END. COMMERCIALY AVAILABLE WIRE MARKERS SIMILAR TO BRADY 945 SERIES VINYL ARE ACCEPTABLE AS A SUBSTITUTE METHOD. TERMINAL IDENTIFICATION IS NOT CONFINED ONLY TO WITHIN THE SWITCHBOARDS BUT MUST BE CARRIED THROUGHOUT THE ENTIRE ELECTRICAL WIRING SYSTEM ASSOCIATED WITH THE SWITCHBOARD WHERE TERMINATIONS ARE BEING MADE AND THE NEED TO IDENTIFY A PARTICULAR WIRE EXISTS.
 46. AUTOMATIC TRANSFER SWITCH AS MANUFACTURED BY "GENERAC" OR APPROVED EQUAL. 240V, 125A, 3Ø, 4W 3 POLE, SOLID NEUTRAL LUG; MOUNTED AS INDICATED ON THE PLANS, NEMA 3R ENCLOSURE; PROVIDE ATS WITH AUXILIARY CONTACTS AS FOLLOWS I-N.O. CONTACT THAT CLOSSES ON TRANSFER TO EMERGENCY; I-N.O. CONTACT THAT CLOSSES ON TRANSFER TO NORMAL; I-N.O. CONTACT THAT CLOSSES WHEN LOSS OF UTILITY POWER IS SENSED; I N.O. AND I N.C. SPARE CONTACTS. PROVIDE SUBMITTAL PRIOR TO PURCHASE.
 47. DIESEL FUEL POWERED EMERGENCY GENERATOR SET AS MANUFACTURED BY: GENERAC, 20 KW STANDBY RATED WITH 0.8 POWER FACTOR, 60HZ 240V, 3-PHASE, 4 WIRE. PROVIDE WITH 3 POLE OUTPUT CIRCUIT BREAKER. CAPACITY AS INDICATED ON THE SINGLE LINE DIAGRAM. EQUIP WITH BASE MOUNTED DIESEL FUEL TANK THAT WILL RUN THE GENERATOR SET FOR 24 HOURS MINIMUM AT FULL LOAD. GENERATOR VENDOR SHALL PROVIDE GENERATOR SET THAT WILL START AND OPERATE THE LOAD WITH MAXIMUM VOLTAGE DIP OF 20% WHILE STARTING THE LARGEST MOTOR AND OPERATING THE ENTIRE CONNECTED LOAD. PROVIDE A WEATHER PROOF SOUND ENCLOSURE (7dB @ 23'-0") WITH FINISH PAINT COLOR TO MATCH SWITCHBOARD. PROVIDE GENERATOR SUBMITTAL PRIOR TO PURCHASE. SUBMITTAL SHALL INCLUDE COMPUTER GENERATED LOAD CALCULATIONS AND COMPLETE DIMENSIONAL INFORMATION.

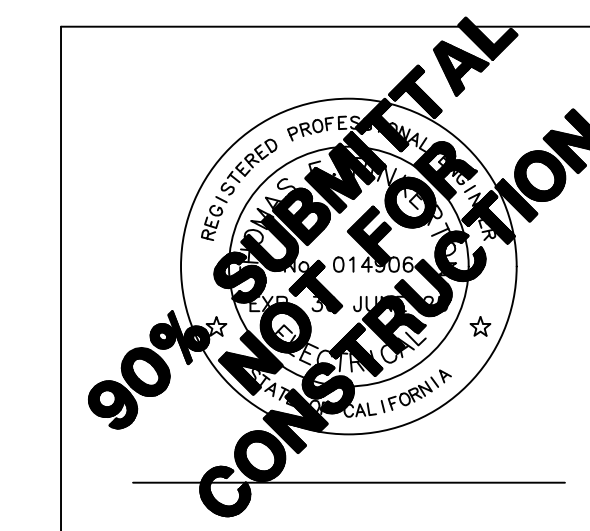


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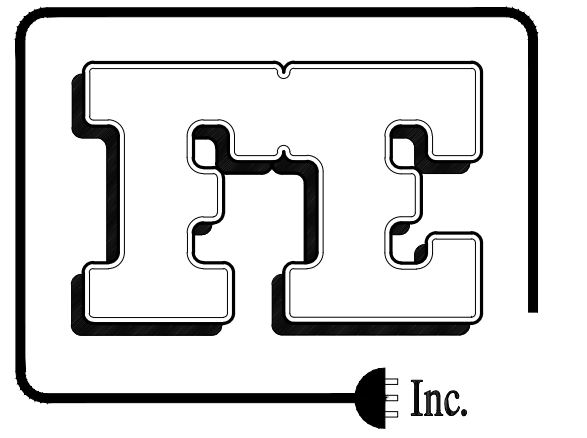
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SHEET NOTES

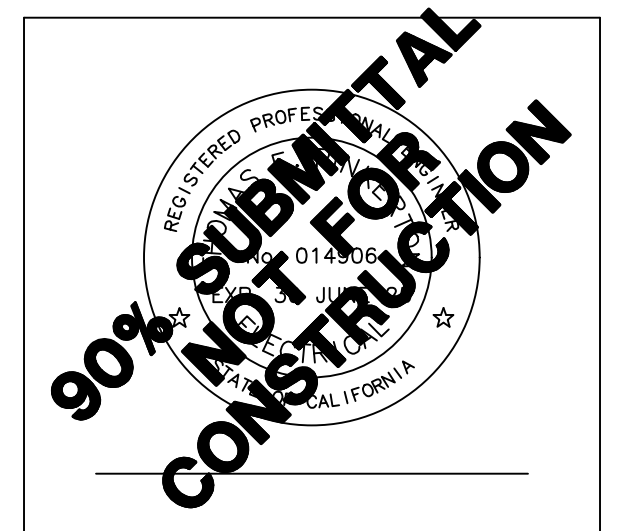
1. DISCONNECT & DEMOLISH (E) FLUORESCENT LIGHT FIXTURE & REPLACE WITH (N) 48" SURFACE MOUNTED LED FIXTURE; LITHONIA LIGHTING "CLX" LINEAR STRIPLIGHT; OR APPROVED EQUAL; 4,000 LUMENS; STANDARD EFFICIENCY; FLAT DIFFUSED LENS; 3500°K; 80 CRI; 120V.
2. DUPLEX PUMP SKID 240-VOLTS, 3-PHASE, 2 PUMPS AT 3 HP (9.6FLA) EACH; PLUS CONTROL POWER TRANSFORMER; FLA OF SKID 19.4 AMPS.
3. COORDINATE WITH CIVIL PLANS FOR DEMOLITION WORK; PROJECT INCLUDES ELECTRICAL DEMOLITION OF (E) ELECTRICAL ELEMENTS WHICH WILL NOT BE USED IN (N) WORK.
4. EQUIPMENT PROVIDED & INSTALLED UNDER CIVIL PLANS; COORDINATE FOR POWER & SIGNAL CONNECTION.
5. WELL HEAD REMOVED UNDER CIVIL PLANS.
6. ARRANGE (N) EQUIPMENT TO MAINTAIN CEC REQUIRED WORKING CLEARANCES.
7. 12" X 12" X 4"D.; SCREW COVER PULLBOX; NEMA 3R; COORDINATE WITH OWNER FOR COMMUNICATIONS TERMINATION POINT.
8. ROUTE ATS SIGNAL CONDUIT TO CI.



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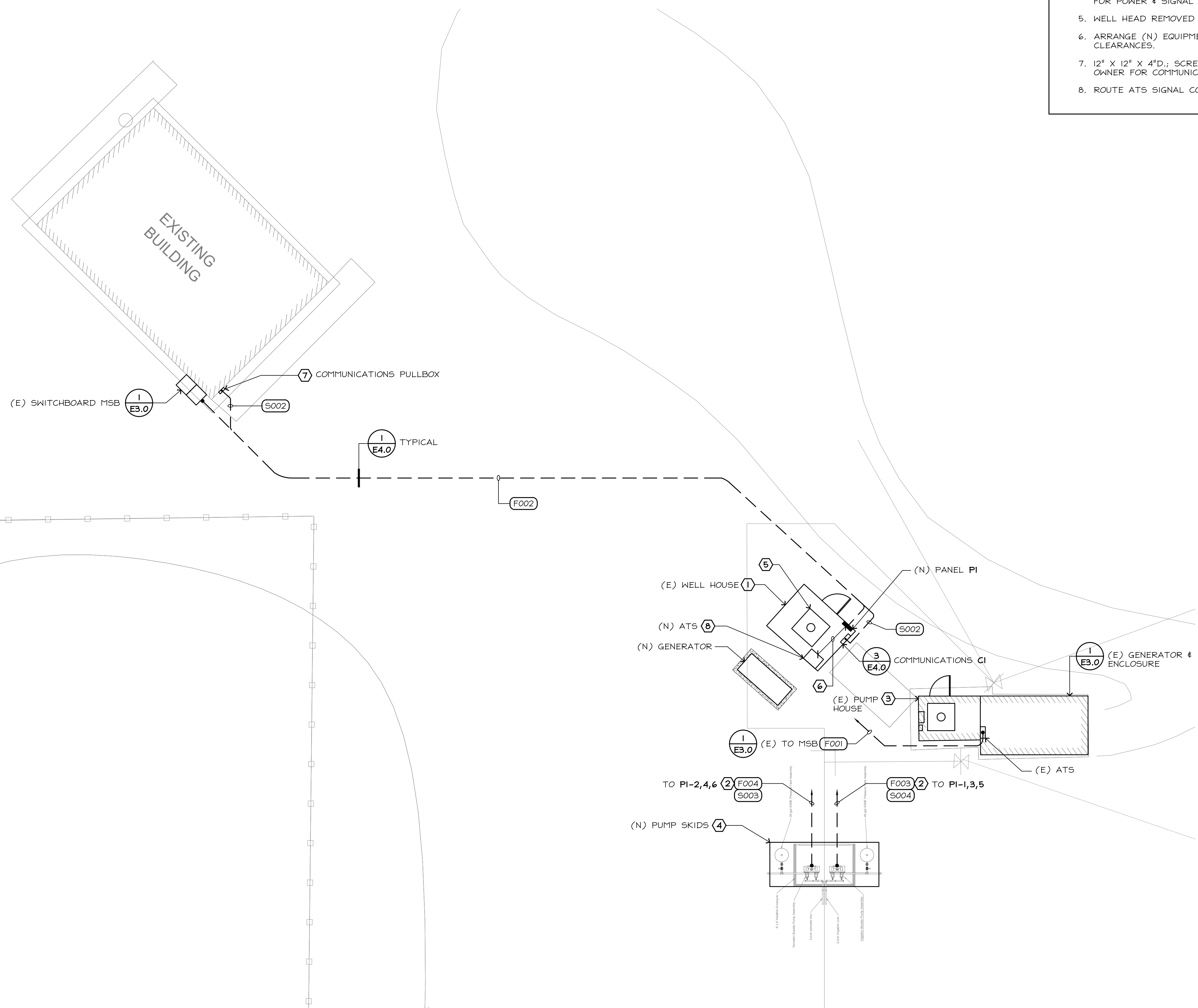
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PARTIAL SITE PLAN

Scale: AS NOTED
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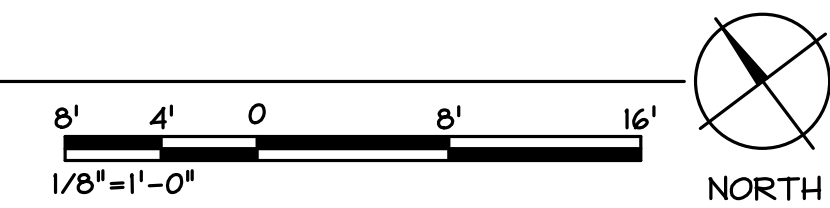
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1 PARTIAL SITE PLAN

1/8"=1'-0"



GENERAL SINGLE LINE NOTES

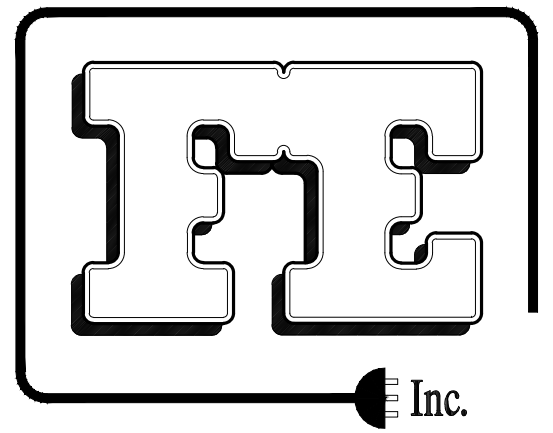
- A. ALL ELECTRICAL SHOWN IS NEW, U.O.N.
- B. ALL CIRCUIT BREAKERS ARE 3-POLE, U.O.N.
- C. VOLTAGE DESIGNATIONS: (U.O.N.)
 240-1 = 240/120V-1PH-3WIRE
 480-1 = 480V-1PH-2WIRE
 208Y = 208/120V-3PH-4 WIRE
 240 Δ = 120/240V-3PH- 4 WIRE
 480Y = 480/277V-3PH- 4 WIRE
 480 Δ = 480V-3PH-3 WIRE
 12KVΔ = 12.KV-3PH-3 WIRE
- D. "KAIC" AT CIRCUIT BREAKERS DENOTES MINIMUM REQUIRED INTERRUPTING CAPACITY IN AMPS (x 1000).
- E. SPO AT BREAKER DENOTES: PROVIDE MOUNTING SPACE & HARDWARE FOR FUTURE 3-POLE BREAKER OF RATINGS INDICATED.
- F. I_{sc} = AVAILABLE SHORT CIRCUIT (RMS SYM. AMPS) BASED ON 500MVA SHORT-CIRCUIT DUTY AT SERVICE XFMR PRIMARY AND 7.5% BELOW NOMINAL XFMR IMPEDENCES; VALUES ON LOAD-SIDE OF MAIN SWITCHBOARD INCLUDE MOTOR CONTRIBUTION.

FEEDER SCHEDULE

FDR No.	CONDUIT AND CONDUCTORS	REMARK
F001	(E) 2" C., 3#6, 1#8 GND.	
F002	1 1/2" C., 4#2, 1#8 GND.	
F003	1" C., 4#6, 1#10 GND.	
F004	3/4" C., 3#12, 1#12 GND.	GENERATOR HEATER & BATTERY CHARGER
S001	3/4" C., 2#12	GENERATOR START SIGNAL
S002	1" C.	
S003	3/4" C.	PUMP SKID ALARMS
S004	3/4" C.	PUMP SKID ALARMS
S005	3/4" C.	GENERATOR ALARMS

SHEET NOTES

1. DISCONNECT & REMOVE EQUIPMENT; RETURN EQUIPMENT TO OWNER.
2. (N) AUTOMATIC TRANSFER SWITCH; SEE ELECTRICAL SPECIFICATION.



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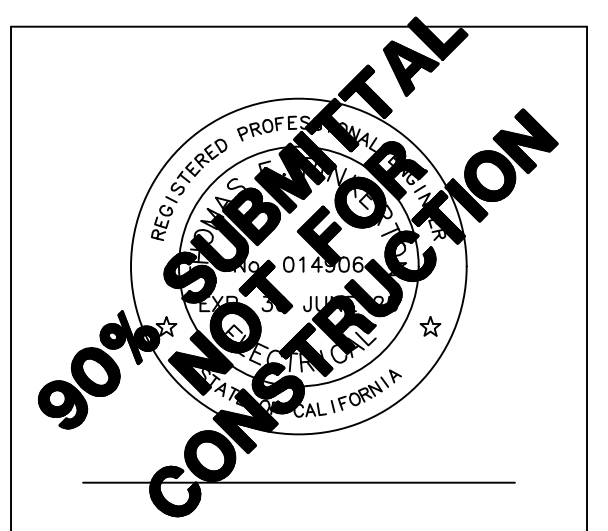
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PANELBOARD SCHEDULE

P1	TYPE NEMA 3R				BUS 125A, 3φ, 4W		VOLT 240 Δ				
	MOUNT SURFACE				MAINS 125A C.B.		CONNECTED LOAD				
NGOOD	A.I.C. 18,000				FEED BOTTOM		KVA 18.3		A 44		
USE	VOLT-AMPS				TRIP	φ	VOLT-AMPS				
	A	B*	C	TRIP			A	B*	C	USE	
PUMP SKID	2696			30	1	2	30	2696			PUMP SKID
		2696		3	5	4			2696		
LIGHTS/RECEP. SPACE ONLY	300			20/1	7	8	20/1	1200			GENERATOR HEATER SPACE ONLY
				IPSP	9	10	IPSP				GENERATOR BATTERY CHARGER SPACE ONLY
					11	12	20/1			600	
					13	14	IPSP				
					15	16					
					17	18					
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
	2996	2696	2696					3896	2696	3296	

B* = HIGH LEG



Facility:

RENAISSANCE
 HIGH SCHOOL
 11 SPRING VALLEY ROAD,
 LA SELVA BEACH, CA

Revisions:

Project Title:

RENAISSANCE
 HIGH SCHOOL
 WATER SYSTEM
 CONSOLIDATION

Project No.: Date: 12/21/23

Sheet Title:

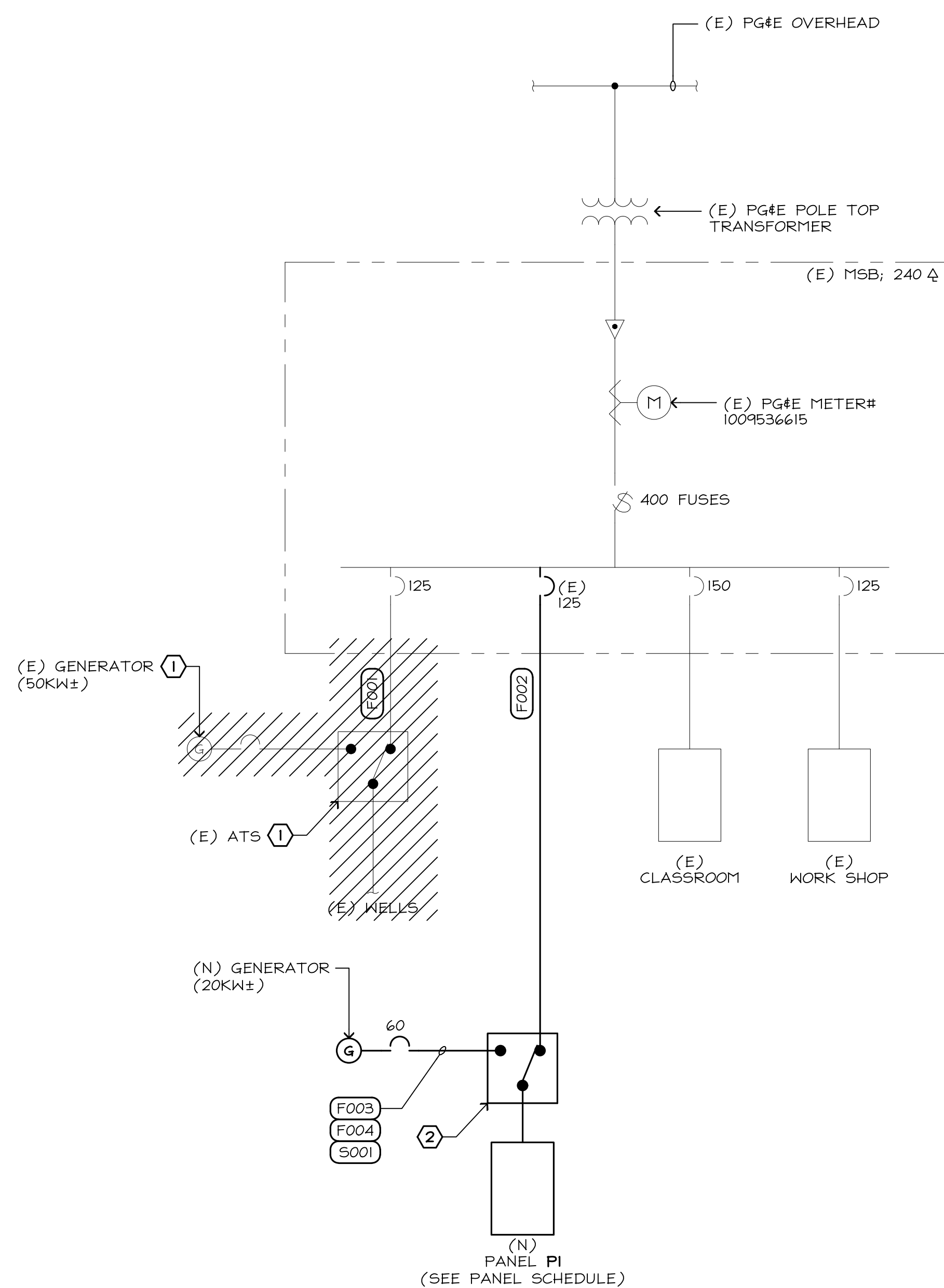
SINGLE LINE
 DIAGRAM

Scale: AS NOTED

Sheet No:

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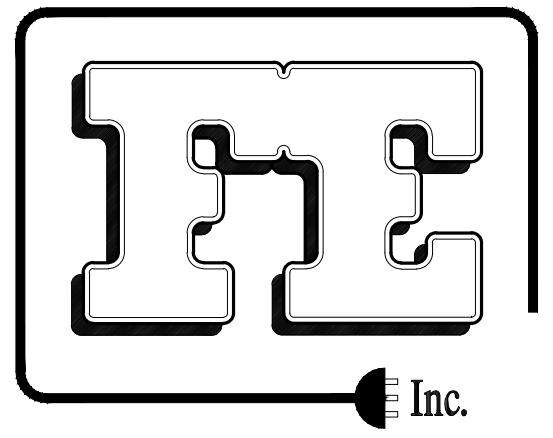
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1 SINGLE LINE DIAGRAM

NO SCALE

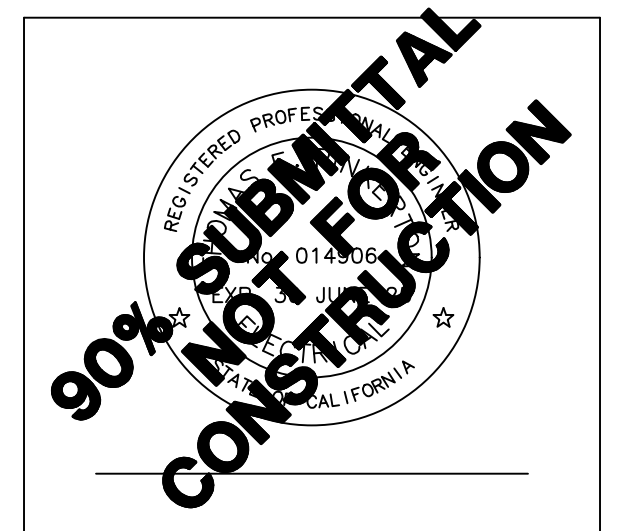
G:\2023_JOBS\23009\23009E3.0.dwg 12-27-23 FEHR ENGINEERING 04:36:11 PM ChristLewis



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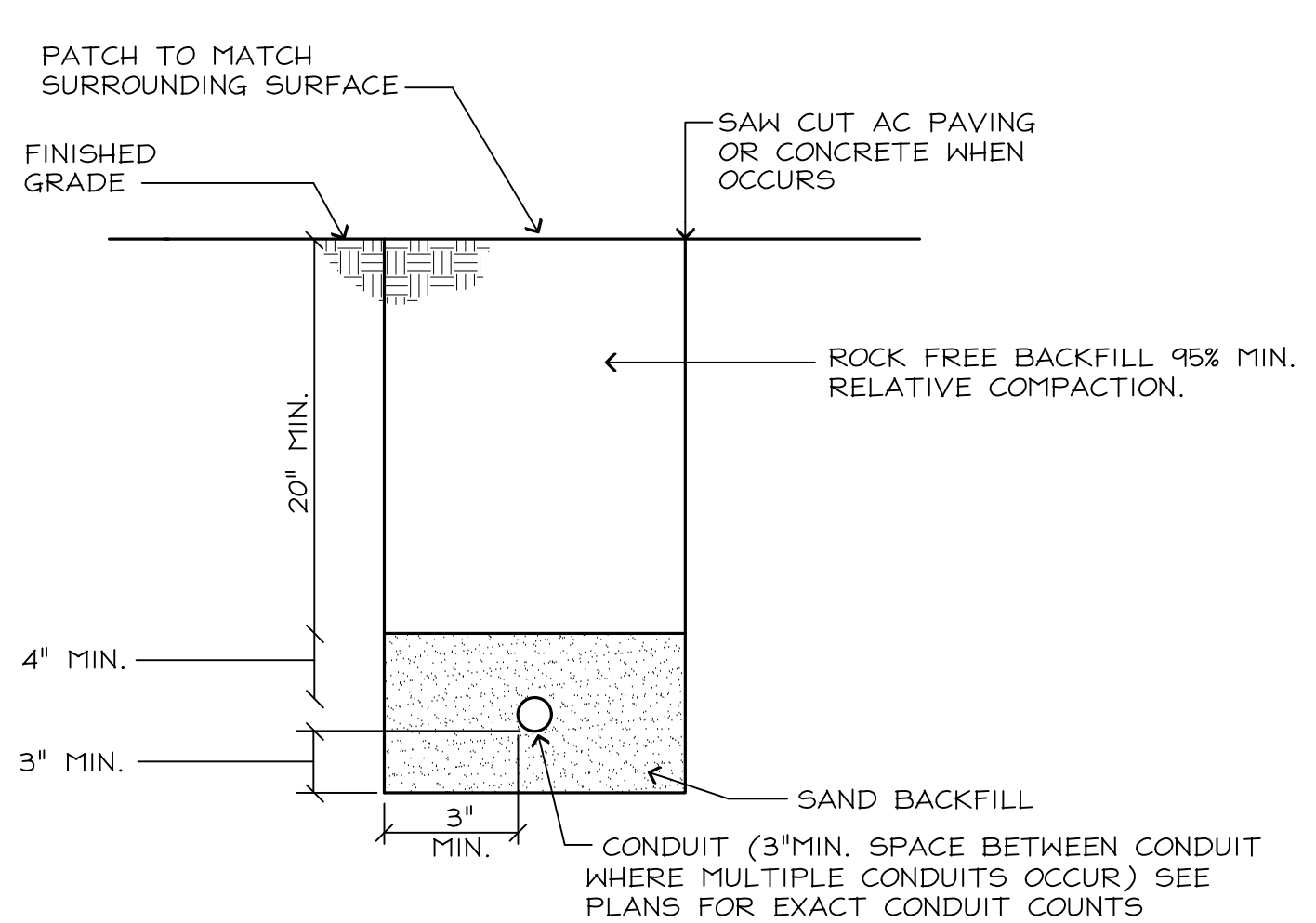
ELECTRICAL
DETAILS

Scale: AS NOTED
Sheet No:

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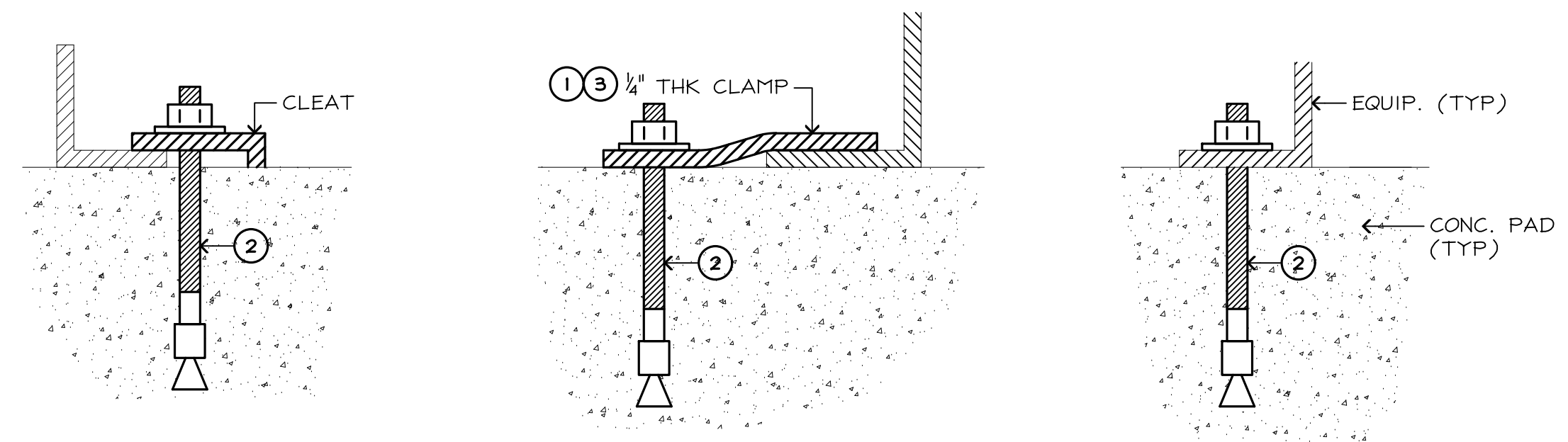
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3 COMMUNICATIONS SCHEMATIC
NO SCALE



1 TRENCH SECTION
NO SCALE

- NOTES:**
- ANCHORING METHODS SHOWN ARE FOR GUIDANCE ONLY; FOLLOW EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE SPECIFIC ANCHORING DETAILS FOR EQUIPMENT INSTALLED WITH STRUCTURAL CALCULATIONS FOR ANCHORAGE OF EQUIPMENT PRIOR TO INSTALLATION. SPECIFY ALL CLAMP AND ANCHORAGE DETAILS (LENGTH, WIDTH, DEPTH.)
 - STAINLESS STEEL WEDGE ANCHOR; RED HEAD "TRUBOLT" OR EQUAL; SIZE PER EQUIP. MFGR; AS A MINIMUM PROVIDE 1/2" DIAMETER ANCHORS WITH 3" (MINIMUM) EMBEDMENT.
 - AS A MINIMUM, ANCHOR SWITCHBOARDS AT EACH CORNER OF EACH SECTION, WELD CLAMP TO BASE WHERE NOT POSITIVELY ANCHORED.



2 EQUIPMENT ANCHORING
NO SCALE

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