ADDENDUM No. 2
December 10, 2025

CALAVERAS COUNTY WATER DISTRICT
ARNOLD WWTP IMPROVEMENTS PROJECT

This Addendum No. 2 ("Addendum") as dated above modifies certain Bidding Documents issued by the Calaveras County Water District in connection with the District's Arnold WWTP Improvements Project. There are no other amendments to the Bidding Documents other than expressly contained in this and any other Addenda issued by the District.

1. The Drawings shall be modified by the following actions:
   A. Drawing M600: **REPLACE** with the attached revised DWG M600.
   B. Drawing M601: **REPLACE** with the attached revised DWG M601.
   C. Drawing E010: **REPLACE** with the attached revised DWG E010.
   D. Drawing E021: **REPLACE** with the attached revised DWG E021.
   E. Drawing E100: **REPLACE** with the attached revised DWG E100.
   F. Drawing E101: **REPLACE** with the attached revised DWG E101.
   G. Drawing E102: **REPLACE** with the attached revised DWG E102.
   H. Drawing E500: **REPLACE** with the attached revised DWG E500.
2. The Specifications shall be modified by the following actions:
   A. Specification 15100, Page 5, **ADD** to the end of Section 2.05 heading after the words "Plug Valves":
      (MOV331, MOV332)

   B. Specification 15100, Page 10, **DELETE** from the end of Section 2.08 heading:
      MOV331, MOV332

   C. Specification 15100, Page 10, **DELETE** Paragraph 2.08.C and **REPLACE** with the following:
      C. Valves shall provide 100 percent if the port area of the joining pipe at the valve ends and, unless otherwise specified, through the entire length of the valve. Valves shall be capable of closing bubble tight against the maximum pressure. Valves shall, as a minimum, conform to the following performance characteristics:

Variables	Values
Max flow to be controlled (gpm)	438
Min flow to be controlled (gpm)	158
Max pressure drop available and valve fully open (psi)	3

   D. Specification 15100, Page 10, Table in Paragraph 2.08.H, row labeled "Manufacturers", **ADD** "or Approved Equal" after the manufacturer make and model listed.

Kevin Williams, P.E., District Engineer

12-10-2025
Date

Attachments:

Revised Drawings: M600, M601, E010, E021, E100, E101, E102, E500

END OF DOCUMENT

Questions from Bidders and Responses (not part of Addendum):

1. **Question:** Requests made for additional detail on electrical and controls scope from PB-4B to the interior of the Existing Biosolids Dewatering Building shown on Drawing E101 and to the belt press control panel.
   Answer: See Addendum #2 revisions to Sheet E-101.

2. **Question:** Please confirm the 1.5” FE piping Drawing C104? Is the size 1.5” correct, is Detail 5/C902 Location 13 correct, is the hose bibb at the new Clarifier on this line?
   Answer: 1.5" FE size and hot tap detail 5/C902 are confirmed. Hose bib is located at the end of the new FE line by the new clarifier.

3. **Question:** Is lighting fixture Type B used on this project? There doesn't appear to be a symbol for the "Stanchion" mounted fixtures on Drawing E001, and the fixture types from the light fixture schedule are not shown on the plan sheets for verification.
   Answer: No See Addendum #2 changes to Sheet E100.

4. **Question:** Drawings E100 and E101 show 20 electrical pull boxes, but the drawings do not indicate whether Detail 7/E900 or Detail 1/E901 applies to each location. One detail requires sizing based on conduit quantity and size, while the other references dimensions that are not shown. Please clarify which pull box detail applies to each location and provide the required pull box sizes.
   Answer: Detail 1 on drawing E-901 shall be used for duct banks. Detail 7 on E-900 shall be used where there are less conduits such as for lighting circuits for pole lights.

5. **Question:** The site electrical pullboxes are identified with PB-#. These typical Pullbox identifiers PB-(#) are noted in the conduit and conductor schedule on several of the conduits identified with X, or spare. However, this is not always the case since conduit CX01 for example, is shown routed to PB-5(B). Is the intent that all PB's without the letter B are to be used for the spare conduits, and PB's with the letter B are to be used for conduits containing conductors? Please clarify your intent since it's not clear on the electrical site drawings which conduits route to which pullbox.
   Answer: Pullboxes are located in pairs. The intent is to provide separate pullboxes for power and control/signal conduits. PB-# is for power and PB-#B is for control/signals.

6. **Question:** Note 4/C102 indicates to fill existing abandoned buried pipelines with grout. Please confirm if the intent is to fill the entire length of the pipeline or just the end that is cut prior to installing the watertight seal prescribed by detail 8/C902.
   Answer: Confirmed, the intent is to fill length of pipe that is left in place and not removed as shown on contract drawings.

7. **Question:** Requests for clarification made relating to conduit identifiers the RAS/WAS pump station on E500.
   Answer: See Addendum #2 changes to Sheets E100 and E500.

8. **Question:** Drawing E100 shows conduits L018 & L019 routed to the Aerobic Digester Expansion area. The conduit and conductor schedule calls for these conduits to be circuits for the generator. Please clarify if all the required conduits are shown to the Aerobic Digester area on Drawing E100 and confirm the routing and final location of L018 & L019.
   Answer: Correct, these conduits should be routed to the Standby Generator

9. **Question:** The enlarged partial plans on drawings E300, E500, and E600 don't provide the conduit identifiers on the individual conduits to their final locations. They only show the homeruns, which is no different than the overall site plans. Can the conduit identifiers be added to the individual

conduits to provide routing to the final locations of each?
Answer: Reference conduit schedule on Sheets E021 and E022 for final locations.

10. **Question:** A request has been submitted to add an alternate pinch valve manufacturer as an "equal" to the manufacturer listed in Section 15100, Valves and Miscellaneous Components and/or to allow equals.
Answer: See revisions to 15100 in Addendum #2

11. **Question:** Sheet E100 calls out Conduits P043 AND P044. These conduits are not found in the schedule. Please clarify size and type
Answer: See Addendum #2 changes to Sheet E021

12. **Question:** What is the anticipated start date for this project?
Answer: The current estimate for notice to proceed is early to mid-April 2026.

13. **Question:** What is the vertical elevation of the Existing Control Building?
Answer: As-built drawings of the existing building show a dimension of 8.75 ft from finish floor to ceiling.

14. **Question:** There are multiple duct banks on sheet E-100 and E-101 with no conduits called out. Please clarify.
Answer: Conduit duct bank routes provided on E-100 and E-101. Conduit call outs on the plans shall be used in conjunction with the conduit schedule. See conduit schedule on sheets E-021 and E-022.

15. **Question:** Please provide complete P&IDs for this project.
Answer: See Sheets I-001 to I-010 in the Plans.

16. **Question:** Regarding the blower air (BA) lines coming out of the blowers shown on sheet M700: Per spec section 11410, 2.09, C-2 & D-3 it appears that the first external 3" SST EXPANSION COUPLING and the WAFER STYLE BFVs coming out of the blowers are to be supplied pre-assembled by the blower manufacturer, highlighted below in red. Is the third 3" SST EXPANSION COUPLING also to be supplied by the blower manufacture? If not, could you provide a specification for that item? Also, the note calling out 3" BFVs states TYP OF 3 but only 2 are shown. If a third BFV is required, could you provide the location please?
Answer: For all SST expansion joints, refer to spec 15060 - System 14 for blower air system for expansion coupling requirements. The 3rd expansion can be provided by the blower manufacturer, at the discretion of the contractor. Only 2 BFVs, wafer type, are required as shown on the contract drawings.

17. **Question:** Sheets M600 and M601 show 3" SHUT OFF GVs on the BA lines. The use of gate valves is unusual on an BA lines. Should these actually be BFVs per spec section 15100, 2.03 or should these be ball valves as called for in the PIPING SYSTEM SPECIFICATION SCHEDULE – SYSTEM 14 for BLOWER AIR (BA)? If ball valves, are they per spec section 15100, 2.06?
Answer: Shut off valves for exposed air pipes shall be ball valve type per section 15060. Refer to 15100-2.06 for ball valves specification. See Addendum #2 revisions to Sheets M600 and M601.

18. **Question:** Piping System Specification Schedule – System 14 for Blower Air (BA) lists both hot dipped galvanized steel and type 316 stainless steel for buried piping and the plans don't seem to designate which is to be used. Is the type of pipe used for buried BA lines the contractors choice?
Answer: As indicated in section 15060-System 14 - Carbon steel is only allowed where indicated on the contract drawings. Refer to det 1/C903 for locations where carbon steel is allowed.

19. **Question:** Drawing sheet M-601 does not include a specification sheet or a list of manufacturers for the 4" and 6" isolation valves. (Drawing Sheet M-601).
Answer: See Addendum #2 changes to Sheet M601.

20. **Question:** There is no specification for the expansion joint for the air blower system (Drawing Sheet M-700).
    Answer: Refer to spec 15060 - System 14 for blower air system for expansion coupling requirements.

21. **Question:** There is no specification document for the Gate Valve for the Blower Airline application (Drawing document M-600).
    Answer: Shut off valves for exposed air pipes shall be ball valve type per section 15060. Refer to 15100 for ball valves specification.

22. **Question:** The light fixture schedule on E020 calls for a type-B fixture. Please provide locations for these Stanchion mounted fixtures.
    Answer: Type-B fixtures are to be provided if additional lighting is required over the clarifiers or digesters and shall be stanchion mounted to hand rails.

23. **Question:** The contract drawings identify underground pull boxes labeled PB-1, PB-1B through PB-10, PB-10B, but a pull box schedule or size matrix is not provided. Can you please provide a Pull box schedule?
    Answer: Refer to spec 16125-1.01C for sizing.

24. **Question:** Conduits P008 and P009 are referenced on drawing E100 as routed to the RAS/WAS area. The conduit and conductor schedule calls for these conduits to be routed to Plug MOV 3 & 4 (Future). There is no reference of the conduits or future MOV's on drawing E500. Please provide the location of the future MOV's.
    Answer: See Addendum #2 changes to Sheets E100 and E500.

25. **Question:** Spec section 16208, 2.05 Load Bank calls for the supply and installation of a load bank adjacent to the generator as shown on the contract documents. The electrical one line and site plans do not show a load bank. Please clarify if a load bank is required.
    Answer: No Load Bank per drawing E010.

26. **Question:** Drawing E102 calls for an HVAC split system (Carrier Model 40MAHBQ24XA3 Indoor Unit/38MARBQ24AA3 Outdoor Unit). Please confirm whether OR EQUAL models will be acceptable. Will there be a specification section for the HVAC scope?
    Answer: See Addendum #2 changes to E102.

27. **Question:** For the HVAC split system on drawing E102, will there be a specification section for the refrigerant piping and condensate piping? Will pre-insulated line-sets be acceptable for the refrigerant piping? Schedule 40 PVC for the condensate piping?
    Answer: See Addendum #2 changes to E102.

28. **Question:** Will testing, adjusting, and balancing (TAB) services be required for the HVAC scope on this project?
    Answer: No.

29. **Question:** A request was made to list additional named system integrators in Section 17010.
    Answer: See Addendum #1 revisions related to system integrator specifications and qualifications. As indicated in Section 17010 and Section 00200 as modified by Addendum #1, naming a system integrator does not constitute pre-approval; all system integrators, whether named or proposed as substitutes, must meet the qualification requirements contained in the specifications and must satisfy the requirements of Section 00451-Certification of System Integrator Qualifications (Addendum #1). Bidders may propose any system integrator that fully meets these, subject to the submittal and evaluation procedures in the Contract Documents. No additional named system integrators are added by this addendum.

30. **Question:** In Article 3 of Section 00200 - Instruction to Bidders, and Article 2 of Section 00410 - Bid Form, it states that the Contractor must submit evidence of Authority to do business in California. Please provide a form or an example for this requirement.
Answer: No specific form is provided for this requirement. Evidence of authority to do business in California shall be demonstrated by documentation issued by the California Secretary of State, such as a current Certificate of Status, Statement of Information, or a printout from the Secretary of State's Business Search website showing the bidder's active registration and good standing. The Contractor may submit any equivalent documentation that confirms legal authority to conduct business in the State of California.

31. **Question:** Section 01500 - Construction Facilities and Temporary Controls, regarding Paragraph 1.15, is the Owner providing a biologist for this project? Paragraph 1.16, is the Owner providing personnel to conduct the cultural resource training?
Answer: CCWD will provide a one (1) time biological resource protection class and a one (1) time cultural resource protection class for both CCWD staff and the Contractor. Both classes will be recorded for those who did not attend in person, of which will be required to watch prior to working onsite.

32. **Question:** Section 00200 - Sequence of Construction, Paragraph 4.0 states that the Contractor can only work at the Arnold WWTF between April 15th to November 30th. Will the contract time be suspended during the non-working periods between December 1 and April 14 each year, or will the 700 calendar days continue to run regardless of seasonal work restrictions?
Answer: The contract time will not be suspended for the non-working period.

33. **Question:** Can you verify the size of precast electrical vaults you would like on this project?
Answer: Refer to Specification 16125-1.01C for sizing.

34. **Question:** E022 has conduit L007 (Control Room exterior receptacle). Drawing E102 doesn't show any. How many would you like?
Answer: Two circuits provided for receptacles (interior/exterior). Provide exterior receptacle directly behind the interior receptacles. See Addendum #2 changes to E102.

35. **Question:** Multiple new instruments / loads / IO points are shown on the P&IDs but are not shown on any electrical floor/site plan. Please provide locations, details and (enlarged) electrical dwgs depicting the following:

    a. ZC-220/230 (possibly inherent to MOV-220/230? (MOV-220/230)). **Answer:** ZC-220/230 is inherent to MOV-220/230. See drawing M201 Flow Splitter Box & Meter Box Plan for exact location adjacent to (E)Oxidation Ditch.

    b. ZN/ZSO/ZSC-220/230 (possibly inherent to MOV-220/230? (MOV-220/230)) **Answer:** ZN/ZSO/ZSC-220/230 is inherent to MOV-220/230. See drawing M201 Flow Splitter Box & Meter Box Plan for exact location adjacent to (E)Oxidation Ditch.dd

    c. FE/FIT 220 **Answer:** See drawing M201 Flow Splitter Box & Meter Box Plan for exact location. Located adjacent to (E)Oxidation Ditch.

    d. FE/FIT 230 **Answer:** FE/FIT 230 See drawing M201 Flow Splitter Box & Meter Box Plan for exact location. Located adjacent to (E)Oxidation Ditch.

    e. HC-320 (possibly inherent to Sec Clarifier-2 Motor? (M-320)) **Answer:** HC-320 is inherent to Sec Clarifier-2 Motor M-320. See drawing E300.

    36. WS-320 (possibly inherent to Sec Clarifier-2 Motor? (M-320)) **Answer:** WS-320 is inherent to Sec Clarifier-2 Motor M-320. See drawing E300.

f. HC-330 (possibly inherent to the RAS/WAS Pump? (P-330)) **Answer:** HC-330 is inherent to the RAS/WAS Pump P-330. See drawing E500.

g. HTR-630/640 (possibly inherent to the Mixers? (MX-630/640)) **Answer:** HTR-630/640 is inherent to the Mixers MX-630/640. See drawing E600.

37. MLS-630/640 (possibly inherent to the Mixers? (MX-630/640)) **Answer:** MLS-630/640 is inherent to the Mixers MX-630/640. See drawing E600.

h. RTD-630/640 (possibly inherent to the Mixers? (MX-630/640)) **Answer:** RTD-630/640 is inherent to the Mixers MX-630/640. See drawing E600.

i. HC-630/640 (possibly inherent to the Mixers? (MX-630/640)) **Answer:** HC-630/640 is inherent to the Mixers MX-630/640. See drawing E600.

j. Belt Press Main Panel 'LCP1' **Answer:** Belt Press Main Panel 'LCP1' is located in existing Biosolids Dewatering Building shown on E101.

k. LSL-351 **Answer:** LSL-351 will be located in the secondary clarifier #1

l. LSL-353 **Answer:** LSL-353 is LSL-373 and will be located in the secondary clarifier #2.

m. HTR-370 (Possibly inherent to Effluent Pump? (P-370)) **Answer:** HTR-370 is inherent to Effluent Pump P-370. See drawings E300.

n. RTD-370 (Possibly inherent to Effluent Pump? (P-370)) **Answer:** RTD-370 is inherent to Effluent Pump P-370. See drawings E300.

o. HC-370 (Possibly inherent to Effluent Pump? (P-370)) **Answer:** HC-370 is inherent to Effluent Pump P-370. See drawings E300.

p. LE/LIT-372 Answer: dd LE/LIT-372 will be located in the Secondary Clarifier #2.

q. PSH-372 (Is this the PSH/PI shown on E300 adjacent to P-370?) **Answer:** PSH-371 is this the PSH/PI shown on E300 adjacent to P-370.

r. Effluent Pump #1 (P-350) [shown as new on SLD] **Answer:** Effluent Pump #1 (P-350), shown as new on single line diagram, existing pumps to remain.

s. Effluent Pump #2 (P-360) [shown as new on SLD] **Answer:** Effluent Pump #2 (P-360), shown as new on single line diagram, existing pumps to remain.

38. **Question:** Multiple new instruments / loads / IO points are shown on the P&IDs and SLD but are not shown on any electrical floor/site plan. Please provide locations, details and (enlarged) electrical dwgs depicting the following: MOV-220, MOV-230, others?
Answer: MOV-220 and MOV-230 are located in Flow Splitter Box & Meter Box Plan. See drawing M201 for exact location. Located adjacent to (E) Oxidation Ditch.

39. **Question:** Multiple existing instruments / loads / IO points are shown on the P&IDs but are not shown on any electrical floor/site plan. Please provide locations, details, electrical drawings and scope of reconnection for the following:

a. Screen Control Panel (Same as Headworks Control Panel M-100?) **Answer:** Screen Control Panel is same as Headworks Control Panel M-100. Existing equipment to remain, provide power and controls.

b. Compactor (M-100) **Answer:** Compactor M-100 located at the existing screen. Existing equipment to remain, provide power and controls.

c. FE/FIT-110 **Answer:** FE/FIT-110 located at flume. Existing equipment to remain, provide power and controls.

d. LT-100 **Answer:** LT-100, located as part of NaOH Tank. Existing equipment to remain, provide power and controls.

e. AE-200 **Answer:** AE-200, located in existing Ox. Ditch. Existing equipment to remain, provide power and controls.

f. Mixer (MX-210) **Answer:** Mixer (MX-210), located in existing Ox. Ditch. Existing equipment to remain, provide power and controls.

g. AE-201 **Answer:** AE-201, located in existing Ox. Ditch. Existing equipment to remain, provide power and controls.

h. Mixer (MX-220) **Answer:** Mixer (MX-220), located in existing Ox. Ditch. Existing equipment to remain, provide power and controls.

i. LE/LIT-200 **Answer:** LE/LIT-200, located in existing Ox. Ditch. Existing equipment to remain, provide power and controls.

j. LSH-200 **Answer:** LSH-200, located in existing Ox. Ditch. Existing equipment to remain, provide controls.

k. LSH-310 **Answer:** LSH-310, located in secondary clarifier 1. Existing equipment to remain, provide controls.

l. Secondary Clarifier-1 **Answer:** (M-310) M-310, located in secondary clarifier 1. Existing equipment to remain, provide power and controls.

m. Mixer (MX-620) **Answer:** A 120v connection is shown for an adjacent motorized valve, mixer is 480V and existing valve is 120VAC.

n. Local Control Panel (for (E) Plant Drain Pump Station) **Answer:** located at existing Plant Drain Pump Station adjacent to existing Biosolids Dewatering Building. Existing equipment to remain, provide power and controls.

o. LSH-670 **Answer:** LSH-670, located at existing Plant Drain Pump Station adjacent to existing Biosolids Dewatering Building. Existing equipment to remain, provide power and controls.

p. Effluent Pump-1 (P-350) [shown as existing on P&ID] **Answer:** correct they are existing as shown. Located in Secondary Effluent Wetwell Clarifier 1.

q. Effluent Pump-2 (P-360) [shown as existing on P&ID] **Answer:** correct they are existing as shown. Located in Secondary Effluent Wetwell Clarifier 1.

r. LE/LIT-350 **Answer:** LE/LIT-350, is located in secondary effluent wetwell califier 1. Existing equipment to remain, provide power and controls.

s. FQI-500 **Answer:** FQI-500 is located in existing Flow Meter Vault. Existing equipment to remain, provide power and controls.

t. LT-500 **Answer:** LT-500 is located in Effluent Storage Tank. Existing equipment to remain, provide controls.

u. LSH-500 **Answer:** LSH-500, is located in Effluent Storage Tank. Existing equipment to remain, provide power and controls.

v. Solenoid valves 21, 22, 23, 24, 25, 26, 27 & 28 **Answer:** Solenoid valves 21, 22, 23, 24, 25, 26, 27 & 28 are part of and located at existing spray fields. Existing equipment to remain, provide power and controls.

w. Solenoid valves 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 & 11 **Answer:** Solenoid valves 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 & 11 are part of and located at existing leach lines. Existing equipment to remain, provide power and controls.

40. **Question:** Multiple existing instruments / loads / IO points are shown on the P&IDs and/or SLD but are not shown on any electrical floor/site plan. Please provide locations, details, electrical drawings and scope of reconnection for the following:

    a. Headworks Control Panel (M-100) **Answer:** Headworks Control Pnl (M-100)- Screen Control Panel is located adjacent to the existing screen located outside of the existing control building.

    b. Clarifier #1 (shown on E100 but scope of reconnection is unknown) **Answer:** Clarifier #1, see P&ID I003. Provide power and controls to existing.

    c. Digester Mixer #1 (MX-610) **Answer:** Digester Mixer #1 MX-610, see P&ID I004. Provide power and controls to existing.

    d. Digester Mixer #2 (MX-620) **Answer:** Digester Mixer #2 MX-620, see P&ID I004. Provide power and controls to existing.

41. **Question:** Section 16110 “Raceways, Fittings & Supports” contains conflicting requirements for underground conduits. Paragraph 1.01(B)(2) states that all direct-buried conduits in earth shall be PVC Schedule 80. Paragraph 3.02(K) states that all underground conduits shall be PVC-coated rigid steel unless otherwise indicated, and requires a transition from PVC-80 to PVC-coated rigid when PVC is shown. The drawings do not clearly indicate which conduit type is required for underground installations, and Detail 3/E900 is not referenced on the drawings.
    Please clarify: What conduit types are permitted for underground installations? Under what conditions Detail 3/E900 applies.
    Answer: Refer to section 16110-1.01B.

42. **Question:** Two pull box details are provided (Detail 7/E900 and Detail 1/E901), but neither is referenced on any building or site plan. Detail 1/E901, Note 1 states: “Dimensions shall be as shown unless otherwise indicated on these drawings,” but no dimensions are shown on the detail. Please clarify: Which pull box detail applies to the project. The required dimensions for the pull boxes.
    Answer: Refer to NEC Article 314 for minimum requirements.

43. **Question:** An alternate pump manufacturer has submitted a pump selection for this specification section. The manufacturer states that they meet all requirements of the specification without exceptions and that using their equipment would not require mechanical, electrical, or structural changes. They request pre-approval and inclusion as an acceptable manufacturer by addendum.
    Answer: No additional manufacturers are being added through the RFI process. Other manufacturers may submit full technical information after award for evaluation in accordance with Section 11400. No changes will be made to add additional manufacturers at this time.

44. **Question:** Per Section 6.04 A, unless otherwise provided in the Supplementary Conditions, Contractor shall purchase and maintain builder's risk insurance. The specific requirements applicable to the builder's risk insurance are set forth in the Supplementary Conditions. However, there are no such requirements set forth in the Supplementary Conditions. Please confirm if Contractor is responsible to procure the builder's risk coverage and, if so, please provide the specific requirements.

Answer: Contractor is responsible for providing builder's risk insurance in accordance with Section 6.04 of the General Conditions. The Supplementary Conditions do not modify or replace these requirements; therefore, the standard builder's risk provisions of the General Conditions apply. No additional project-specific requirements are imposed beyond those stated in Section 6.04.

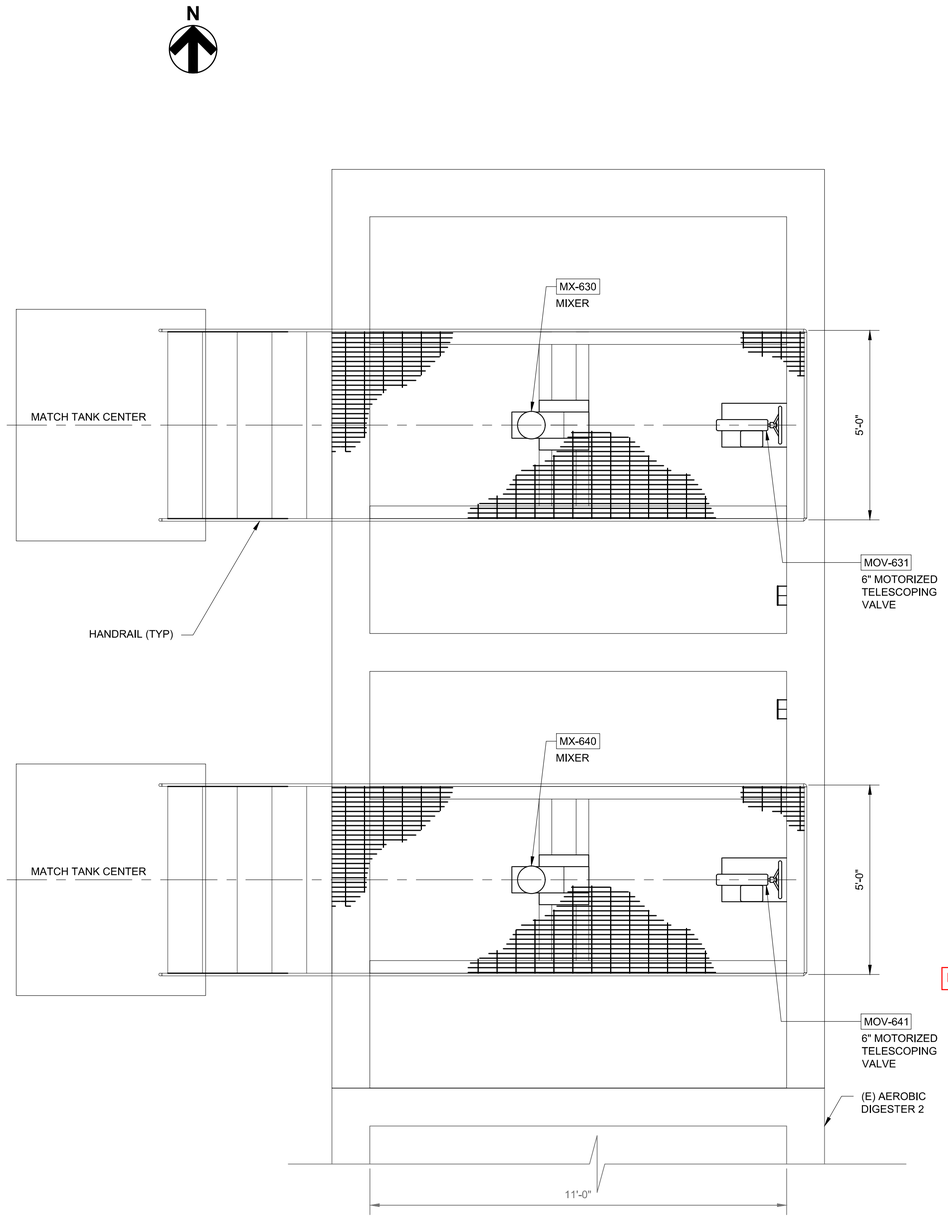
45. **Question:** Article 3 of Section 00200 - Instructions to Bidders, states that the Contractor shall submit its qualifications after submitting its bid and within five days of Owner's request. Section 00410 - Bid Form, Article 2 lists several documents to be submitted with Contractor's bid. Paragraph E lists Required Bidder Qualification Statement. Please confirm if Contractor is to submit with its bid the qualifications listed in Article 3 of Section 00200 or wait until after the bid if requested by the Owner.
    Answer: See response to Question #26 in Addendum #1.

46. **Question:** Addendum 1 revised the list of named manufacturers for Section 11352 – Circular Clarifier Equipment. Please clarify the reason for the change and whether manufacturers may be added prior to bid opening.
    Answer: The revision issued in Addendum 1 aligned the named manufacturers list with the single-source requirements contained in Section 11352 of the Bidding Documents, based on the information available to the Engineer at the time the addendum was prepared. Given the proximity to bid opening, no additional manufacturers can be added to the list of named manufacturers by addendum. As stated in Section 00200, Article 10 – Substitute and "Or-Equal" Items, manufacturers not listed may still be considered through the established "or-equal" process after award, subject to full compliance with the specification requirements.

47. **Question:** The specifications list certain named pump manufacturers; however, some listed manufacturers may not be able to meet Build America, Buy America (BABA) requirements. If a bidder wishes to propose a different pump manufacturer that can meet the project requirements and BABA compliance, does that manufacturer need to be approved prior to bid? What is the proper process?
    Answer: The manufacturer names included in Section 11400 are provided for bidding convenience and do not constitute pre-approval. All pump equipment furnished for the project must comply with the Contract Documents, including the applicable Build America, Buy America (BABA) requirements. As stated in Section 00200, Article 10 – Substitute and "Or-Equal" Items, manufacturers not listed may still be considered through the established "or-equal" process after award, subject to full compliance with the specification requirements.

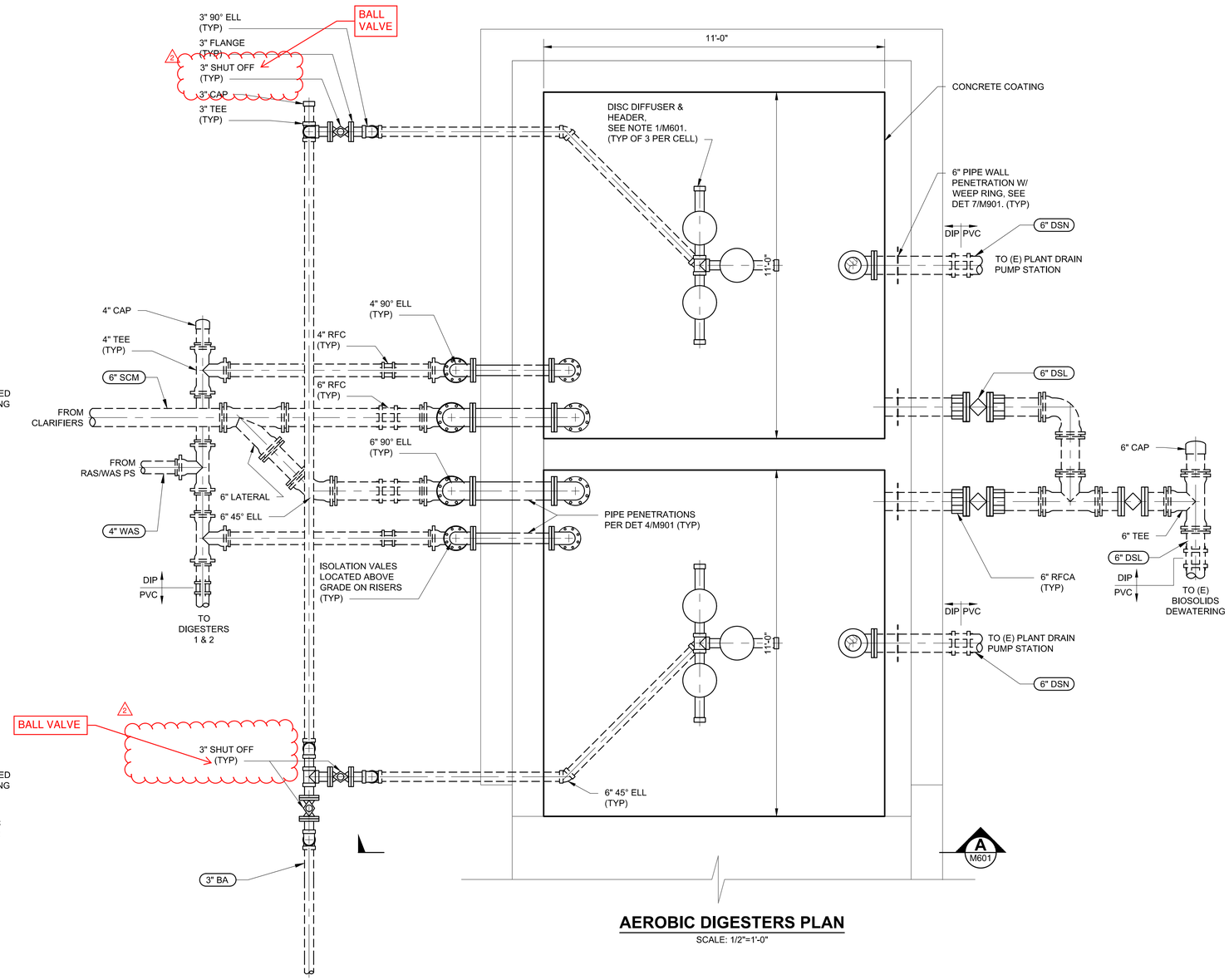
NOTES

1. TANK COATINGS SHALL BE PER SPECIFICATION 09900.



AEROBIC DIGESTERS TOP PLAN

SCALE: 1/2"=1'-0"



AEROBIC DIGESTERS PLAN

SCALE: 1/2"=1'-0"

REV	DESCRIPTION	DATE	APVD
2	ADDENDUM #2	12/9/2025	WJS

REVISIONS

HydroScience
10569 OLD PLACERVILLE RD
SACRAMENTO, CA 95827
o. 916.364.1490 | HydroScience.com

PAPER SIZE: 22X34 (ANSI D)
0" 1/2" 1"
THIS BAR IS 1 INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY.

JOB NO. : 483-001
DATE: 5/7/2025
DRAWN BY: AGP/BAF
DESIGNED BY: ELJ
PROJ. MGR.: WJS

CALAVERAS COUNTY WATER DISTRICT

ARNOLD WWTF PHASE 1 IMPROVEMENTS PROJECT

AEROBIC DIGESTERS PLANS

REGISTERED PROFESSIONAL ENGINEER
WILLIAM J. SCHAFER
C57640
CIVIL
STATE OF CALIFORNIA
5/7/2025

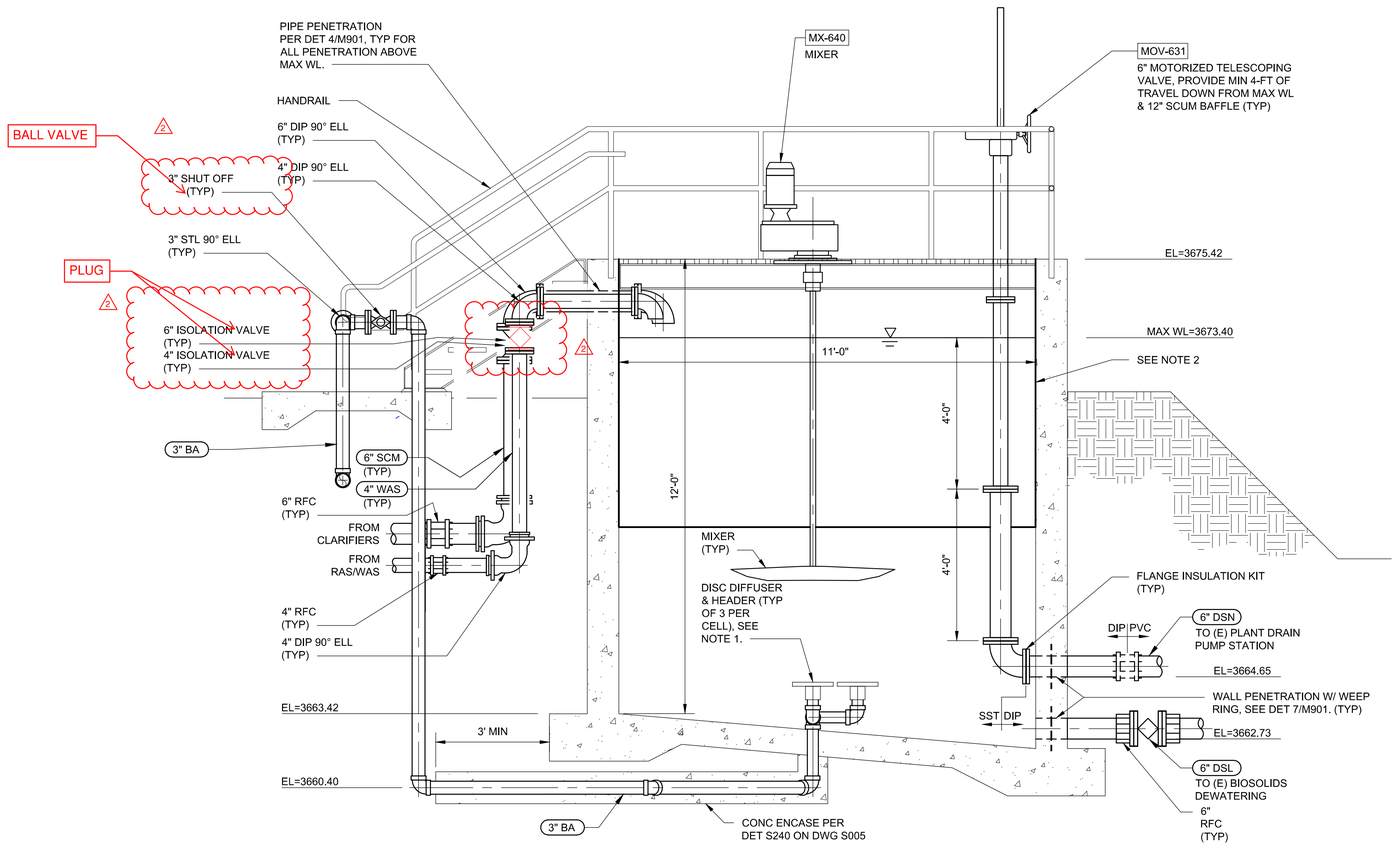
M600
DRAWING NUMBER

SHEET 25 OF 76

Plot Date: 5/6/2025 2:05 PM
Plotted By: ANTHONY PEREZ
File Name: S:\common\projects\483-Calaveras County WD\001-Arnold WWTF Improvements\06-Design\Drawings\483-001-M-Aerobic Digesters Civil Plan & Sections.dwg

NOTES

1. DIFFUSERS SHALL BE HIGH-CAPACITY FINE BUBBLE DISC DIFFUSERS. DIFFUSERS, HEADER AND SUPPORT SYSTEM SHALL BE SUITABLE FOR SLUDGE APPLICATION. SEE SECTION 15060.
2. TANK COATINGS SHALL BE PER SECTION 09900.



SECTION A C600

SCALE: 1/2"=1'-0"

HydroScience
10569 OLD PLACERVILLE RD
SACRAMENTO, CA 95827
o. 916.364.1490 | HydroScience.com

PAPER SIZE: 22X34 (ANSI D)
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DRAWN BY: AGP/BAF
DESIGNED BY: ELJ
PROJ. MGR.: WJS

REV	DESCRIPTION	DATE	APVD
2	ADDENDUM #2	12/9/2025	WJS

REVISIONS

CALAVERAS COUNTY WATER DISTRICT

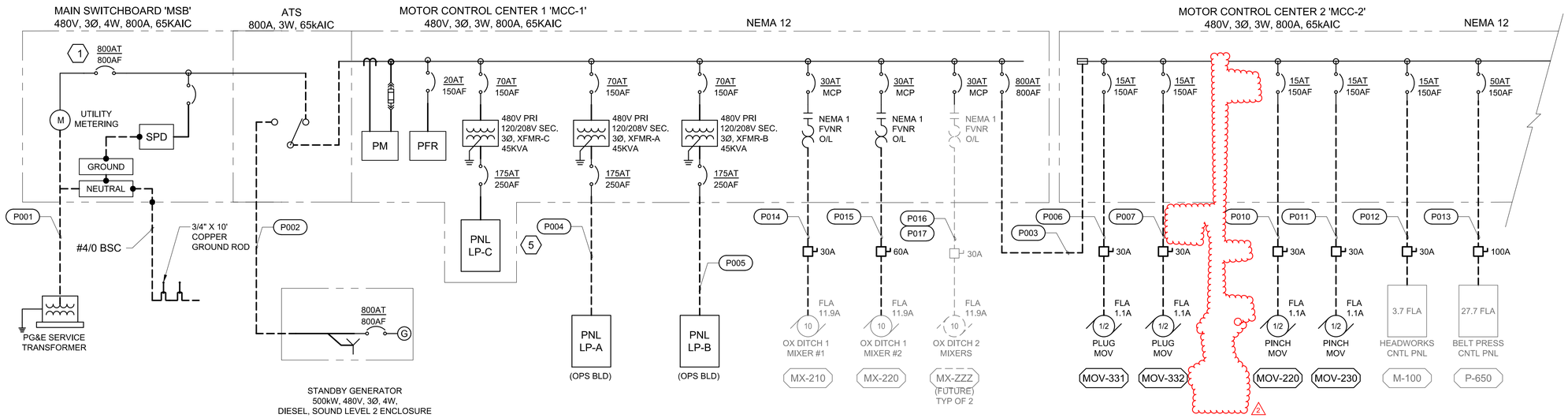
ARNOLD WWTF PHASE 1 IMPROVEMENTS PROJECT

AEROBIC DIGESTERS SECTION

REGISTERED PROFESSIONAL ENGINEER WILLIAM J. SCHEER C57640 CIVIL STATE OF CALIFORNIA
5/7/2025

M601
DRAWING NUMBER
SHEET 26 OF 76

File Name: S:\common\projects\483-Calaveras County WD\001-Arnold WWTF Improvements\06-Design\Drawings\483-001-M-Aerobic Digesters Civil Plan & Sections.dwg
Plotted By: ANTHONY PEREZ
Plot Date: 5/7/2025 11:49 AM

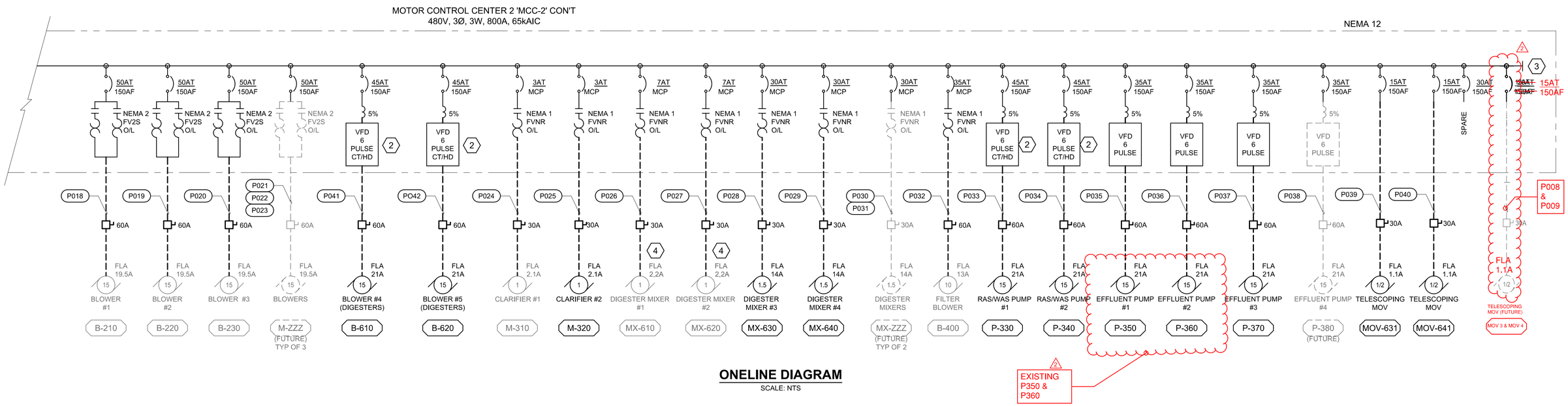


LOAD CALCULATION-MSB

LOAD DESCRIPTION	POWER (KVA)
EXISTING LOADS	110.6
CLARIFIER	1.0
RAS/WAS PUMPS	21.6
DIGESTER MIXERS	13.4
EFFLUENT PUMPS	32.4
VALVE OPERATORS	3.0
BLOWERS	21.6
TRANSFORMERS	135
FUTURE LOADS	140
25% LARGEST MOTOR	5.4
25% CONTINUOUS LOAD	70.7
TOTAL	554.7
480Y/277V, 3 PHASE =	667.2AMP

NOTES:

1. CIRCUIT BREAKER SHALL BE 100% RATED WITH ELECTRONIC TRIP UNIT AND ARCFLASH REDUCTION MAINTENANCE SYSTEM (ARMS) FEATURE.
2. VFD SHALL BE CONSTANT TORQUE OR HEAVY DUTY RATED.
3. PROVIDE PROVISION FOR MCC BUS EXTENSION FOR FUTURE MCC SECTIONS.
4. EXISTING DIGESTER MIXERS 1 AND 2 TO BE REPLACED WITH 1.5-HP MIXERS IN THE FUTURE, SIZE CONDUCTORS FOR FUTURE.
5. PLANT DRAIN PS PUMPS SHALL BE POWERED FROM 120/208V PANEL 'LP-A'.



ONELINE DIAGRAM

SCALE: NTS

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CALAVERAS COUNTY WATER DISTRICT

ARNOLD WWTF PHASE 1 IMPROVEMENTS PROJECT

ONELINE DIAGRAM & LOAD ANALYSIS

REGISTERED PROFESSIONAL ENGINEER
TRINH THANH LE
E18362
ELECTRICAL
STATE OF CALIFORNIA
5/7/2025

E010
DRAWING NUMBER

SHEET 47 OF 76

File Name: S:\common\projects\483-Calaveras County WD\001-Arnold WWTF Improvements\06-Design\Drawings\483-001-E Sheets.dwg
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Plot Date: 5/6/2025 2:06 PM

CONDUIT AND CONDUCTOR ROUTING SCHEDULE

C NO.	FROM	TO	CONDUIT QTY	CONDUIT SIZE	WIRE QTY	WIRE SIZE	GND SIZE	NOTES
P001	PG&E XFMR	MAIN SWITCHBOARD	4	5"	4EA	PULL ROPE	-	480VAC, P&GE SERVICE CONDUCTORS
P002	GENERATOR	ATS	4	4"	3EA	400kCMIL	#4/0	480VAC
P003	MCC-1	MCC-2	3	4"	3EA	400kCMIL	#4/0	480VAC
P004	MCC-1	PANEL A	1	2"	4	#3/0	#6	208/120VAC
P005	MCC-1	PANEL B	1	2"	4	#3/0	#6	208/120VAC
P006	MCC-2	PLUG MOV-331	1	1"	3	#12	#12	480VAC
P007	MCC-2	PLUG MOV-332	1	1"	3	#12	#12	480VAC
P008	MCC-2	TELESCOPING MOV 3 (FUTURE)	1	1"	1	PULL ROPE	-	~~FUT~~ FOR FUTURE DIGESTERS
P009	MCC-2	TELESCOPING MOV 4 (FUTURE)	1	1"	1	PULL ROPE	-	~~FUT~~ FOR FUTURE DIGESTERS
P010	MCC-2	PINCH MOV-220	1	1"	3	#12	#12	480VAC
P011	MCC-2	PINCH MOV-230	1	1"	3	#12	#12	480VAC
P012	MCC-2	HEADWORKS CNTRL PNL	1	1"	3	#12	#12	480VAC
P013	MCC-2	BELT PRESS CNTL PNL	1	1"	3	#6	#12	480VAC
P014	MCC-2	OX DITCH 1 MIXER #1	1	1"	3	#10	#12	480VAC
P015	MCC-2	OX DITCH 1 MIXER #2	1	1"	3	#10	#12	480VAC
P016	MCC-2	OX DITCH 2 MIXER #1 (FUTURE)	1	1"	1	PULL ROPE	-	FUT
P017	MCC-2	OX DITCH 2 MIXER #2 (FUTURE)	1	1"	1	PULL ROPE	-	FUT
P018	MCC-2	BLOWER #1	1	1"	6	#6	#10	480VAC
P019	MCC-2	BLOWER #2	1	1"	6	#6	#10	480VAC
P020	MCC-2	BLOWER #3	1	1"	3	#6	#10	480VAC
P021	MCC-2	BLOWER #6 (FUTURE)	1	1"	1	PULL ROPE	-	480VAC
P022	MCC-2	BLOWER #6 (FUTURE)	1	1"	1	PULL ROPE	-	480VAC
P023	MCC-2	BLOWER #7 (FUTURE)	1	1"	1	PULL ROPE	-	480VAC
P024	MCC-2	CLARIFIER #1	1	1"	3	#12	#12	480VAC
P025	MCC-2	CLARIFIER #2	1	1"	3	#12	#12	480VAC
P026	MCC-2	DIGESTER MIXER #1	1	1"	3	#12	#12	480VAC
P027	MCC-2	DIGESTER MIXER #2	1	1"	3	#12	#12	480VAC
P028	MCC-2	DIGESTER MIXER #3	1	1"	3	#10	#12	480VAC
P029	MCC-2	DIGESTER MIXER #4	1	1"	3	#10	#12	480VAC
P030	MCC-2	DIGESTER MIXER #5 (FUTURE)	1	1"	1	PULL ROPE	-	480VAC
P031	MCC-2	DIGESTER MIXER #6 (FUTURE)	1	1"	1	PULL ROPE	-	480VAC
P032	MCC-2	FILTER BLOWER	1	1"	3	#8	#12	480VAC
P033	MCC-2	RAS/WAS PUMP #1	1	1"	3	#6	#10	480VAC
P034	MCC-2	RAS/WAS PUMP #2	1	1"	3	#6	#10	480VAC
P035	MCC-2	EFFLUENT PUMP #1	1	1"	3	#6	#10	480VAC
P036	MCC-2	EFFLUENT PUMP #2	1	1"	3	#6	#10	480VAC
P037	MCC-2	EFFLUENT PUMP #3	1	1"	3	#6	#10	480VAC
P038	MCC-2	EFFLUENT PUMP #4 (FUTURE)	1	1"	1	PULL ROPE	-	480VAC
P039	MCC-2	TELESCOPING MOV-631	1	1"	3	#12	#12	480VAC
P040	MCC-2	TELESCOPING MOV-641	1	1"	3	#12	#12	480VAC
P041	MCC-2	BLOWER #4 (DIGESTERS)	1	1"	3	#6	#10	480VAC
P042	MCC-2	BLOWER #5 (DIGESTERS)	1	1"	3	#6	#10	480VAC
PX01	MCC-2	PB-5	1	2"	1	PULL ROPE	-	SPARE
PX02	MCC-2	PB-4	1	2"	1	PULL ROPE	-	SPARE
PX03	MCC-2	GENERATOR	1	2"	1	PULL ROPE	-	SPARE
PX04	MCC-2	PANEL A	1	2"	1	PULL ROPE	-	SPARE
PX05	MCC-2	PB-6	1	2"	1	PULL ROPE	-	SPARE
PX06	MCC-2	PINCH MOV-220	1	2"	1	PULL ROPE	-	SPARE
	MCC-2	PB-5	1	2"	1	PULL ROPE	-	SPARE
	MCC-2	PB-5	1	2"	1	PULL ROPE	-	SPARE

P044

P043

CONDUIT AND CONDUCTOR ROUTING SCHEDULE

C NO.	FROM	TO	CONDUIT QTY	CONDUIT SIZE	WIRE QTY	WIRE SIZE	GND SIZE	NOTES
C001	'MCC-2'	MAIN CONTROL PANEL	1	3/4"	2	#14	#14	JYF000(PFR)
C002	INTRUSION SWITCHES	MAIN CONTROL PANEL	1	3/4"	4	#14	#14	ZS005, ZS006
C003	SMOKE DETECTOR	MAIN CONTROL PANEL	1	3/4"	2	#14	#14	ASH010
C004	SMOKE DETECTOR	MAIN CONTROL PANEL	1	3/4"	2	#14	#14	ASH011
C005	GENERATOR	MAIN CONTROL PANEL	1	3/4"	12	#14	#14	JSF,JSR,LSL,LSH,JL,JF(050)
C006	ATS	MAIN CONTROL PANEL	1	3/4"	12	#14	#14	ZSC,ZSO(050)
C007	GENERATOR	ATS	1	3/4"	6	#14	#14	JCR(050)
C008	BLOWERS 210,220,230	MAIN CONTROL PANEL	1	2"	30	#14	#14	AERATION BLOWERS
C009	BLOWERS 610,620	MAIN CONTROL PANEL	1	2"	20	#14	#14	DIGESTOR BLOWERS
C010	SCREEN CONTROL PANEL	MAIN CONTROL PANEL	1	1"	4	#14	#14	SCREEN CONTROL PANEL
C011	NaOH TANK VALVE	MAIN CONTROL PANEL	1	3/4"	2	#14	#14	ZSO100
C012	OXIDATION DITCH	MAIN CONTROL PANEL	1	2"	18	#14	#14	MX210,MX220, LSH200
C013	VALVE VAULT	MAIN CONTROL PANEL	1	2"	12	#14	#14	ZO,ZC,ZF(220,230)
C014	SECONDARY CLARIFIER 1	MAIN CONTROL PANEL	1	2"	12	#14	#14	M310,LSH310
C015	SECONDARY CLARIFIER 2	MAIN CONTROL PANEL	1	2"	12	#14	#14	M320,LSH320
C016	RAS VALVE(MOV-331)	MAIN CONTROL PANEL	1	3/4"	2	#14	#14	MOV331
C017	RAS/WAS PUMP VFD(P-330)	MAIN CONTROL PANEL	1	3/4"	10	#14	#14	P330
C018	RAS/WAS PUMP VFD(P-340)	MAIN CONTROL PANEL	1	3/4"	10	#14	#14	P340
C019	RAS/WAS PUMP PRESSURE SWITCHES	MAIN CONTROL PANEL	1	3/4"	4	#14	#14	FOR PUMP P-330
C020	RAS/WAS PUMP PRESSURE SWITCHES	MAIN CONTROL PANEL	1	3/4"	4	#14	#14	FOR PUMP P-340
C021	RAS VALVE(MOV-332)	MAIN CONTROL PANEL	1	3/4"	2	#14	#14	MOV332
C022	DIGESTER MIXER MX-610	MAIN CONTROL PANEL	1	3/4"	10	#14	#14	MX610
C023	DIGESTER MIXER MX-620	MAIN CONTROL PANEL	1	3/4"	10	#14	#14	MX620
C024	DIGESTER MIXER MX-630	MAIN CONTROL PANEL	1	3/4"	10	#14	#14	MX630
C025	DIGESTER MIXER MX-640	MAIN CONTROL PANEL	1	3/4"	10	#14	#14	MX640
C026	PLANT DRAIN PUMP STATION LSH	MAIN CONTROL PANEL	1	1"	2	#14	#14	LSH670
C027	EFFLUENT PUMP 1	MAIN CONTROL PANEL	1	1"	10	#14	#14	P-350
C028	EFFLUENT PUMP 2	MAIN CONTROL PANEL	1	1"	10	#14	#14	P-360
C029	EFFLUENT PUMP 3	MAIN CONTROL PANEL	1	1"	10	#14	#14	P-370
C030	EFFLUENT PUMP 4 (FUTURE)	MAIN CONTROL PANEL	1	1"	1	PULL ROPE	-	P-380
C031	EFFLUENT WETWELL CLARIFIER #1	MAIN CONTROL PANEL	1	1"	6	#14	#14	LSL351
C032	EFFLUENT WETWELL CLARIFIER #2	MAIN CONTROL PANEL	1	1"	6	#14	#14	LSL373,PSH371
C033	FILTER CONTROL PANEL	MAIN CONTROL PANEL	1	1"	6	#14	#14	B-400
C034	EFFLUENT STORAGE TANK LEVEL SWITCH	MAIN CONTROL PANEL	1	1"	2	#14	#14	LSH500
C035	IRRIGATION FIELD	MAIN CONTROL PANEL	1	1"	16	#14	#14	SV(21,22,23,24,25,26,27,28), VIA TERMINATION PANEL
C036	LEACH FIELD	MAIN CONTROL PANEL	1	1"	22	#14	#14	SV(1,2,3,4,5,6,7,8,9,10,11), VIA TERMINATION PANEL
CX01	PB-5B	MAIN CONTROL PANEL	1	2"	1	PULL ROPE	-	SPARE
CX02	PB-4	MAIN CONTROL PANEL	1	2"	1	PULL ROPE	-	SPARE
CX03	GENERATOR	MAIN CONTROL PANEL	1	2"	1	PULL ROPE	-	SPARE
CX04	PANEL A	MAIN CONTROL PANEL	1	2"	1	PULL ROPE	-	SPARE
CX05	PB-6	MAIN CONTROL PANEL	1	2"	1	PULL ROPE	-	SPARE
CX06	PINCH MOV-220	MAIN CONTROL PANEL	1	2"	1	PULL ROPE	-	SPARE

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ARNOLD WWTF PHASE 1 IMPROVEMENTS PROJECT

CONDUIT & CONDUCTOR ROUTING SCHEDULE - 1

REGISTERED PROFESSIONAL ENGINEER THANH THANH LE E18362 ELECTRICAL STATE OF CALIFORNIA 5/7/2025

E021
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SHEET 50 OF 76

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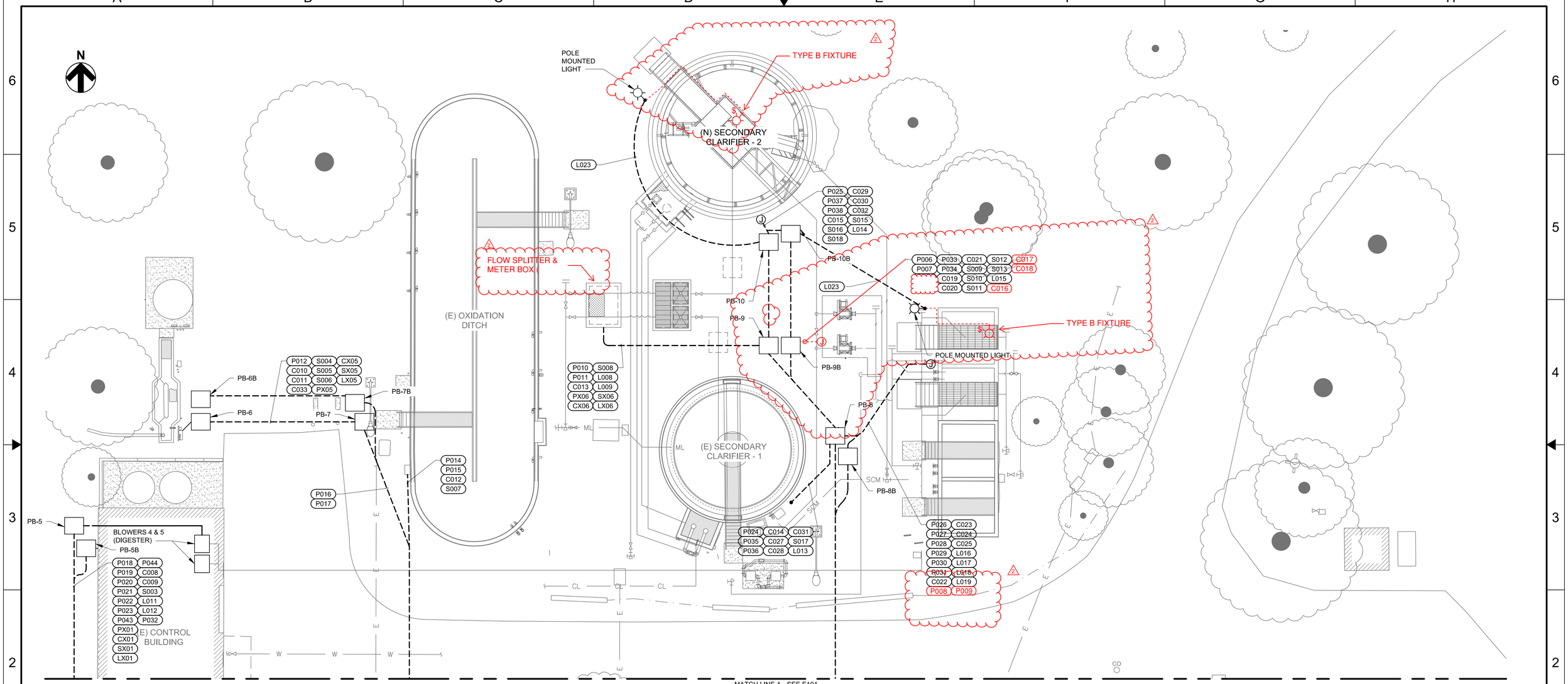

MATCH LINE A - SEE E101

ELECTRICAL SITE PLAN SHEET 1 OF 2

SCALE: 1" = 10'-0"

NOTES

1. ALL NEW DUCTBANKS SHALL BE ROUTED ADJACENT TO EXISTING. ALL NEW CONDUIT AND WIRES SHALL BE INSTALLED AND ROUTED TO MINIMIZE DOWN TIME DURING CUT OVER TO NEW CONTROL BUILDING POWER AND CONTROL.
2. CLASS 1 DIVISION 2 GROUP D INSIDE THE INTERIOR OF THE TANKS FROM THE MINIMUM OPERATING WATER SURFACE TO THE TOP OF THE TANK WALL, 18 IN. ABOVE THE TOP OF THE TANKS AND EXTENDING 10 FT HORIZONTALLY FROM THE EXTERIOR TANK WALLS. ALL WORK IN CLASSIFIED AREAS SHALL CONFORM TO NFPA 820 AND NFPA 70 CHAPTER 5.
3. RECEPTACLES SHOWN ON ENLARGED PLANS SHALL BE GFI TYPE WITH WEATHER PROOF ENCLOSURES.

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ARNOLD WWTF PHASE 1 IMPROVEMENTS PROJECT

ELECTRICAL SITE PLAN SHEET 1 OF 2

REGISTERED PROFESSIONAL ENGINEER THANH THANH LE E18362 ELECTRICAL STATE OF CALIFORNIA 5/7/2025

E100
DRAWING NUMBER

SHEET 60 OF 76

File Name: S:\common\projects\483-Calaveras County WD\001-Arnold WWTF Improvements\06-Design\Drawings\483-001-E100-Site Plan.dwg
Plotted By: ANTHONY PEREZ
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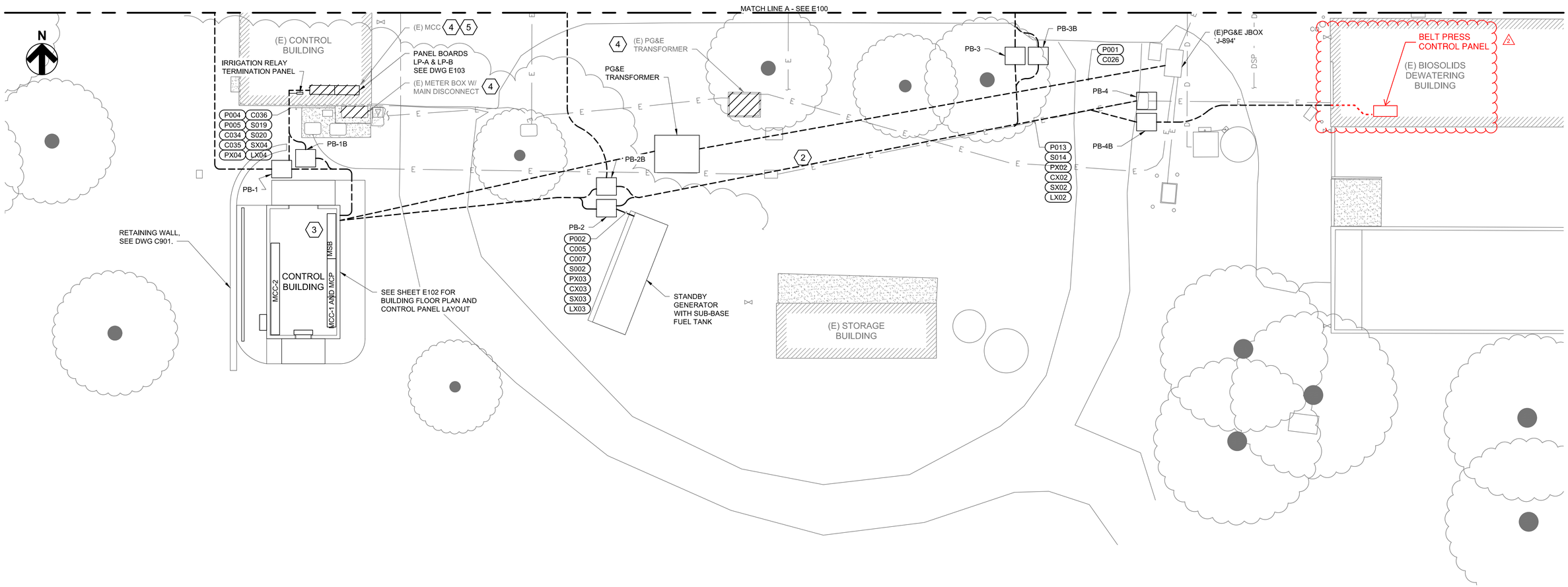

ELECTRICAL SITE PLAN - SHEET 2 OF 2

SCALE: 1" = 10'-0"

NOTES

1. ELECTRICAL SERVICE UPGRADE SHALL INCREASE ELECTRICAL SERVICE TO 800A.
2. TO MINIMIZE PLANT OPERATION DOWN TIME DURING ELECTRICAL POWER CUT OVER, AN ALTERNATIVE LOCATION IS PROVIDED FOR A NEW TRANSFORMER TO BE INSTALLED. A NEW METER LOCATION IS ALSO PROVIDED.
3. NEW METER LOCATION AT NEW MAIN SWITCHBOARD IS LOCATED INSIDE NEW CONTROL BUILDING.
4. EXISTING CONTROL BUILDING MCC, METER PANEL AND PG&E TRANSFORMER TO BE DEMOLISHED. CONTRACTOR TO COORDINATE DEMO SCHEDULE WITH DISTRICT.
5. WALL MOUNT NEW PANEL BOARDS LP-A AND LP-B IN PLACE OF (E) MCC.
6. WALL MOUNT NEW IRRIGATION RELAY TERMINATION PANEL. WIRING CURRENTLY ENDS WITHIN EXISTING MCC. TERMINATION PANEL SHALL BE USED TO EXTEND SIGNALS TO NEW CONTROL PANEL.

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ARNOLD WWTF PHASE 1 IMPROVEMENTS PROJECT

ELECTRICAL SITE PLAN SHEET 2 OF 2

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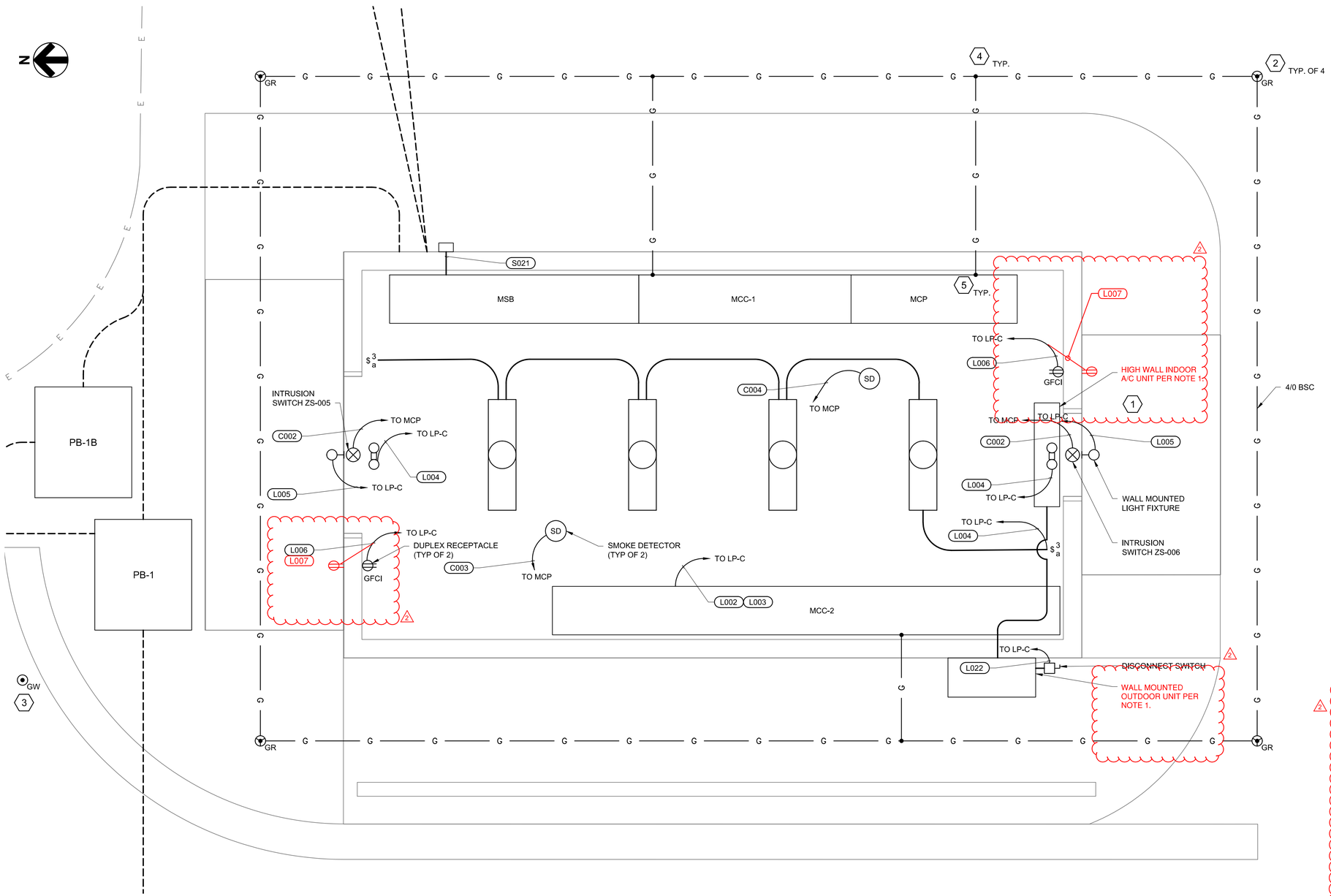

ELECTRICAL BUILDING LIGHTING AND GROUNDING PLAN

SCALE: 1/2" = 1'-0"

1. HIGH WALL INDOOR A/C UNIT TO BE MOUNTED TO WALL ABOVE DOOR. UNIT SHALL BE CARRIER MODEL 40MAHBQ24XA3 INDOOR UNIT OR APPROVED EQUAL. WALL MOUNTED OUTDOOR UNIT SHALL BE MOUNTED 4' ABOVE GRADE AND SHALL BE CARRIER MODEL 38MARBQ24AA3 208/230V - 1 - 60 OR APPROVED EQUAL.

NOTES

2. GROUND ROD CONNECTIONS PER DETAIL 4/E900.
3. GROUND TEST WELL PER DETAIL 4/E901.
4. BELOW GRADE EXOTHERMIC WELD CONNECTION PER SPECIFICATION SECTION 16450.
5. EQUIPMENT BOND PER SPECIFICATION SECTION 16450.
6. PROVIDE SCHEDULE 40 PVC CONDENSATE PIPING. PRE-INSULATED LINE SETS ARE ACCEPTABLE AND SHALL MEET THE FOLLOWING REQUIREMENTS: COPPER: ASTM B280 ACR; INSULATION: NBR/PVC CLOSED-CELL ELASTOMERIC, 3/4" MINIMUM; JACKET: UV-RESISTANT BLACK POLYETHYLENE.

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ELECTRICAL BUILDING LIGHTING AND GROUNDING PLAN

REGISTERED PROFESSIONAL ENGINEER THANH THANH LE E18362 ELECTRICAL STATE OF CALIFORNIA
5/7/2025

E102
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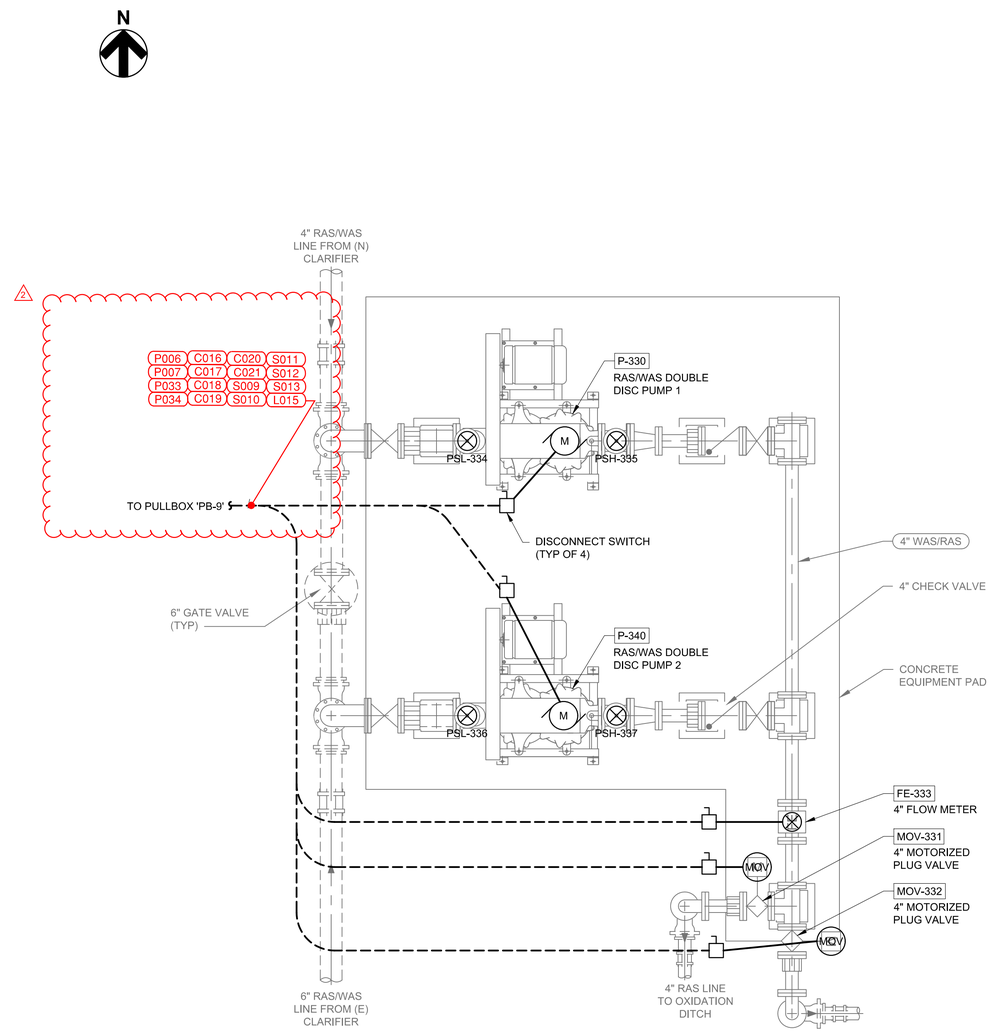
NOTES

1. NEW RAS/WAS PUMP STATION ELECTRICAL AND SIGNAL CONDUITS SHALL BE ROUTED UNDERGROUND TO PULLBOX 'PB-9'.



RAS/WAS PUMP STATION ELECTRICAL PLAN

SCALE: 1/2"=1'-0"

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ARNOLD WWTF PHASE 1 IMPROVEMENTS PROJECT

RAS/WAS PUMP STATION ELECTRICAL PLAN

REGISTERED PROFESSIONAL ENGINEER THANH THANH LE E18362 ELECTRICAL STATE OF CALIFORNIA
5/7/2025

E500
DRAWING NUMBER

SHEET 66 OF 76

File Name: S:\common\projects\483-Calaveras County WD\001-Arnold WWTF Improvements\06-Design\Drawings\483-001-E500 RAS & WAS PS Electrical Plan.dwg
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