



Bitters Pump Station Upgrades and Tank Replacement
Solicitation Number: CO-00601-SM
Job No.: 20-6007

ADDENDUM No.3
June 30, 2023

To Respondent of Record:

This addendum, applicable to work referenced above, is an amendment to the price proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the Respondent Questionnaire.

RESPONSES TO QUESTIONS

- 1. Question: Sheet E-106 Note 16 calls out a Hubbell fixture to be used to replace the existing demolished pole lights. Sheet E-114 Detail A calls out a different fixture and pole. Which part number is to be used for the area pole light replacements?**

Response: The model numbers for the light pole and fixture are Hubbell RTS-K-20-60-A-TA-K2-DBS-VM2 and Hubbell UR20-28L-70-4K8-5W-UNV-PT23-DBS-7PR-SC, respectively. See “Changes to the Plans” Sheet E-114.
- 2. Question: Please provide Word Version of the Evaluation Criteria fillable forms.**

Response: A Microsoft Word version of the Evaluation Criteria forms are available for download on the SAWS procurement website for this RFCSP.
- 3. Question: Is there an inspection report of the tank, or a clean out report? We want to see approx. how much sediment may be in the tank.**

Response: A tank inspection report will be available for download on the SAWS procurement website for this RFCSP. The proposer is required to accept the Conditions and Disclaimer for use to obtain the Report. The amount of sediment is unknown.
- 4. Question: Is there a paint analysis available?**

Response: Paint test results are available in the tank inspection report that will be available for download on the SAWS website.
- 5. Question: Although the specs state the demo cannot happen until Oct – Mar, this is such a big window, although we know the final schedule will be on the GC, is there an anticipated time frame the Eng has in mind for the tank demo to occur?**

Response: Demolition of the tank may occur at anytime. Specification 01040 limits temporary shutdowns to occur between October to March. The contractor is advised that isolation of the tank in preparation for demolition may require a temporary shutdown which is limited to occur between October to March.
- 6. Question: Is there a domestic materials requirement for this project?**

Response: There are no “Buy American” or “American Iron and Steel” (AIS) requirements on this project.
- 7. Question: Please confirm the welded steel tank will be empty and clean of any sediment prior to demolition. If not, please provide a quantity of sediment that will be required to be removed.**

Response: The contractor is required to drain the tank with the assistance of SAWS and dispose of sediment within the tank. The amount of sediment in the tank is unknown.

8. **Question: Paragraph 3.03-F of specification section 02060 states “Any hazardous material located in the foundations, vaults or in the water mains of these structures shall be disposed of in a manner that satisfies all State, Local and Federal laws pertaining to these types of materials.”. Please provide the extent of hazardous material anticipated and if not anticipated please confirm that any hazardous material encountered will be paid for by a change order.**

Response: The extent of known potentially hazardous material is limited to asbestos contained material and disposal procedures are outlined in specification 02504 Asbestos Containing Materials (ACM) Removal and associated report entitled “Asbestos Survey Report, SAWS Bitters 5 MG Ground Storage Tank” available for download on the SAWS website as part of the solicitation for RFCSP for this project. If unforeseen hazardous materials are encountered, SAWS construction phase procedures will be followed for consideration of possible additional costs.

9. **Question: Please confirm the Owner will lock out and tag out all pertinent existing utilities necessary prior to the start of site demolition.**

Response: The contractor is responsible to maintain the Bitters Pump Station fully operational throughout the project. The contractor is responsible for temporary lock and tag out of any utilities required during any temporary or partial shutdowns during demolition phases of the project.

10. **Question: Paragraph 3.07-A of specification section 02060 states “Any hazardous material located in the foundation, or in the water mains of these structures shall be disposed of in a manner that satisfies all State, Local and Federal laws pertaining to these types of materials.”. Please provide the extent of hazardous material anticipated and if not anticipated please confirm that any hazardous material encountered will be paid for by change order.**

Response: Refer to the response to question No. 8 of this addendum.

11. **Question: Please confirm that the water at the project site meets the requirements of “Water for Compaction” as required by paragraph 2.01-F of specification section 02210.**

Response: The water on the site can be used for compaction. Also, see response to question No.2 in Addendum No.2.

12. **Question: Paragraph 2.05-B of specification section 03300 states that the Portland Cement utilized is to be Type I. Many plants are only carrying Type II, as there has been a shift in the market. Please confirm that Type I, II and III are acceptable cement types for this project.**

Response: See "Changes to the Specifications" item 1, Section 03300 -Cast-In-Place Concrete. Type I, II, and III are acceptable.

13. **Question: Paragraph 2.06-C of specification section 13207 state two hatches 36”x42” then goes on to mention a small and large hatch. Please clarify the sizes of roof hatches required.**

Response: See response to question No.11 in Addendum No.2.

14. **Question: Can the # of days the price is to remain open for the bid be confirmed.**

Response: Reference the Proposal Certification page PC-1 within the Bidding and Contracting Requirements section of the specifications. The Proposal Certification states: *“It is anticipated that the Owner will act on this proposal within 90 calendar days after the bid opening. Upon acceptance and award of the contract to the undersigned by the Owner, the undersigned shall execute standard San Antonio Water System Contract Documents and make Performance and Payment Bonds for the full amount of the contract within 10 calendar days after the award of the Contract to secure proper compliance with the terms and provisions of the contract, to insure and guarantee the work until final completion and acceptance, and the guarantee period stipulated, and to guarantee payment of all lawful claims for labor performed and materials furnished in the fulfillment of the contract.*

It is anticipated that the Owner will provide written Authorization to Proceed within 30 days after the award of the Contract.”

15. **Question: Please confirm that Finish Grade right next to the GST is at a minimum at FFE equal to 867.0’ in elevation. Drawing C-112 appears to show this is the intent, but just confirming.**

Response: Yes, the finish grade high point adjacent to the GST shall be 867.0’ as shown on C-112.

- 16. Question: Specifications call out a 24" flap valve for the GST overflow. Overflow minimum size is 30"; please confirm a 30" minimum flap valve is required.**
Response: See "Changes to the Specifications" Section 13207 – Wire-Wound Prestressed Concrete Tank with Steel Diaphragm. Flap valve shall be 30" as noted on the drawings.
- 17. Question: Please confirm if multiple overflows may be utilized.**
Response: Only one overflow may be utilized.
- 18. Question: Please confirm if the ring footing detailed on plan sheet D-503 & D-505 is required or if it is up to the tank manufacturer to design the footing system. If so please provide more specific information on depth and width. Lastly if required what is the intent of the 6" pvc waterstop, given there is a full encompassing leak detection system.**
Response: It is the responsibility of the tank manufacture to design the tank and incorporate the minimum requirements and dimensions noted in the plans including the ring footing. The minimum depth of the footing is 2 feet as noted in the plans. The width of the footing shall be dependent on the tank designer's width for the thickened section of the outside perimeter of the tank floor. The intent of the 6" pvc waterstop is to prevent surface drainage water from seeping into the tank floor.
- 19. Question: Plan sheet D-101 depicts a spring line elevation of 899.0', while plan sheet D-505 details 899.33'. Please clarify which is correct.**
Response: See response to question No.17 in Addendum No.2.
- 20. Question: Plan sheets D-505 & S-102 call out an 8" minimum floor thickness for the GST while specs call out a 6" min floor thickness. Please clarify**
Response: See response to question No.6 in Addendum No.2.
- 21. Question: Plan sheet D-505 calls out a minimum 18" thick GST footing. Please confirm the tank manufacturer may design the footing and floor system per applicable standards listed in specifications.**
Response: The dimensions shown on D-505 are minimum. The tank manufacturer MAY design for a thicker footing.
- 22. Question: Plan sheet S-102 calls out 31.0' from FFE to Overflow Height, while other sheets call out 898.33'. Please confirm if the HWL is either 31.33' or 31.0'.**
Response: The height to overflow is 31.33'. See "Changes to the Plans" Sheet S-102.
- 23. Question: Reference Spec Section 17300 Instrumentation General Provisions 1.01 Scope F. states the following: Furnish and install new SCADA (PLC) Panel as shown on the contract drawings. Please confirm the SCADA Panel is existing as shown on the drawings.**
Response: The SCADA Panel is existing.
- 24. Question: If the SCADA Panel is existing is all the Testing requirements required for this project, for example Factory Testing and all the other testing requirements per Spec Section 17302 Process and Control System Testing.**
Response: The Factory Testing is not applicable to the project but the remainder of the specified testing must be completed as points will be re-connected to the existing SCADA PLC and new data will be monitored at the top end from the Multilin units. See "Changes to Specifications" section 17302.
- 25. Question: If the SCADA Panel is existing is all equipment per Spec Section 17515 Communication Interface Equipment required?**
Response: Yes, all of the equipment as specified in Specification Section 17515 Communications Interface Equipment is required.
- 26. Question: Reference Spec Section 17302 Process and Control System Testing B. Training.1. Manufacturer's Training, please confirm if this Rockwell Manufacture Training is required for this project. If required, please give Rockwell part number so we can request a quote from Rockwell to perform this training.**
Response: Rockwell manufacturer training is required.

CHANGES TO THE SPECIFICATIONS

1. SECTION 03300 CAST-IN-PLACE CONCRETE
 - Paragraph 2.05.B; DELETE in its entirety and REPLACE with the following:
“1. Portland Cement: ASTM C150, Type I, II, and IL.”
2. SECTION 13207 WIRE-WOUND PRESTRESSED CONCRETE TANK WITH STEEL DIAPHRAGM
 - DELETE the third paragraph in its entirety and REPLACE with the following:
“The overflow pipe shall terminate with a 30-inch flap valve by Waterman model PF-25 or Engineer approved equal with flange installation. The overflow box and overflow pipe shall be braced to the reservoir wall at not less than six equally spaced locations or by other methods that the tank contractor uses as standard on their tanks. All bracing and bolts shall be AISI Type 316 stainless steel.”
3. SECTION 17302 PROCESS INSTRUMENTATION AND CONTROL SYSTEM TESTING
 - Paragraph 1.02A; DELETE in its entirety and renumber the subsequent.

CHANGES TO THE PLANS

1. DRAWING E-106 – PROPOSED ELECTRICAL SITE PLAN
 - REMOVE and REPLACE in its entirety with attached.
2. DRAWING E-110 – PROPOSED SWITCHGEAR BUILDING AND ELECTRICAL FLOOR PLAN
 - REMOVE and REPLACE in its entirety with attached.
3. DRAWING E-114 – EXTERIOR LIGHTING
 - REMOVE and REPLACE in its entirety with attached.
4. DRAWING S-102 – BITTERS GST FOUNDATION ELEVATION AND SECTION
 - REMOVE and REPLACE in its entirety with attached.

END OF ADDENDUM

This Addendum, including these 4 pages, is 9 pages with attachments in its entirety.

Attachments:



Jaime R. Kypuros, Jr., P.E.
Tetra Tech

Attachments:

1. Drawings E-106, E-110, E-114, & S-102

ATTACHMENT 1

DRAWINGS E-106, E-110, E-114, & S-102

KEYED NOTES: (X)

- 1 EXISTING 4160V SWITCHGEAR TO BE RETAINED UNTIL NEW SWITCHGEAR IS COMPLETELY ENERGIZED AND TESTED AND THEN BE DEMOLISHED. REFER TO SHEET E-103 FOR DEMOLITION DETAILS.
- 2 NEW SWITCHGEAR LOCATION. (REFER TO DRAWING E-105 FOR SWITCHGEAR ONE-LINE DIAGRAM.)
- 3 EXISTING DUCTBANKS FROM CPS ENERGY TRANSFORMERS SHALL BE INTERCEPTED AFTER NEW SWITCHGEAR HAS BEEN INSTALLED AND CABLES/CONDUITS HAVE BEEN ROUTED PER ONE-LINE DIAGRAM TO/FROM NEW SWITCHGEAR. CONTRACTOR SHALL ADD ELECTRICAL VAULT PER SHEET E-501 TO FACILITATE CONDUCTOR ROUTING. REFER TO SPECIFICATION 16010 FOR SWITCHGEAR CONSTRUCTION PHASING.
- 4 EXISTING VAULT UNDER MCC'S TO BE USED FOR NEW SWITCHGEAR PRIMARY/SECONDARY CABLES.
- 5 PROPOSED LOCATION OF NEW SECURITY PANEL. REFER TO SHEET I-102.
- 6 NEW DUCTBANKS FOR SWITCHGEAR PRIMARY/SECONDARY CABLES. DUCTBANKS SHALL BE ROUTED TO AVOID MAIN ROOT SYSTEMS OF TREES LOCATED NEAR EXISTING SWITCHGEAR BUILDING.
- 7 APPROXIMATE LOCATION MCC A INCOMING SECTION. REFER TO SHEET E-107 INTERCONNECTION TO SWITCHGEAR.
- 8 APPROXIMATE LOCATION OF MCC B INCOMING SECTION. REFER TO SHEET E-107 FOR INTERCONNECTION TO SWITCHGEAR.
- 9 APPROXIMATE LOCATION OF SCADA PANEL. REFER TO SHEET E-107 FOR INTERCONNECTION TO SWITCHGEAR.
- 10 POWER PANEL A. REFER TO SHEET E-110 FOR INTERCONNECTION TO SWITCHGEAR BUILDING AC UNIT.
- 11 POWER PANEL B - SCADA ROOM POWER PANEL 'D' SHALL BE POWERED FROM EXISTING POWER PANEL 'B'. POWER PANEL 'B' IS 208/120V. CONTRACTOR SHALL REPLACE EXISTING SPARE 20A, 3P BREAKER WITH 100A, 3P BREAKER COMPATIBLE WITH EXISTING SQUARE D HCP TYPE I-LINE PANELBOARD. NEW 2" CONDUIT WITH 4-#3 XHHW-2, 1-#8 GND SHALL BE ROUTED FROM POWER PANEL 'B' TO NEW POWER PANEL 'D' LOCATION AS SHOWN.
- 12 NEW POWER PANEL FOR SCADA ROOM TO REPLACE EXISTING POWER PANEL. ALL LOADS SHALL BE RECONNECTED TO NEW PANEL LOCATION USING NEW CABLES AND CONDUIT PER SHEET E-115.
- 13 CONTRACTOR SHALL SEAL THE HOLE AFTER WINDOW AC UNIT REMOVAL WITH CONSTRUCTION MATERIAL SIMILAR TO THAT OF EXISTING BUILDING.
- 14 NEW SLIDE GATE OPERATOR
- 15 NEW SLIDE GATE ACCESS PANEL. REFER TO SHEET I-102.
- 16 LIGHT POLE AND FIXTURE TO BE REPLACED WITH HUBBELL RTS-K-20-60-A-TA-K2-DBS-VM2 AND HUBBELL UR20-28L-70-4K8-5W-UNV-PT23-DBS-7PR-SC.
- 17 GST LEVEL CONTROL PANEL AND INSTRUMENTATION TO BE MOUNTED TO EXISTING RACK. REFER TO SHEETS E-111 & E-112 FOR DETAILS.
- 18 NEW FLOOD LIGHT, GATE CAMERA AND CAMERA 6 PER SHEETS E-114 AND SHEET I-102.
- 19 NEW CAMERAS 7, 8 & 9 PER SHEET I-102.
- 20 NEW CAMERA 11 PER SHEET I-102. EXISTING 1 1/2" CONDUIT IN DUCTBANK FROM LIGHT POLE TO BASEMENT SHALL BE USED TO ROUTE 1-CAT6 CABLE TO NEW CAMERA.
- 21 NEW CAMERA 10 PER SHEET I-102. REFER TO SHEET E-114 FOR CAMERA POLE DETAILS.

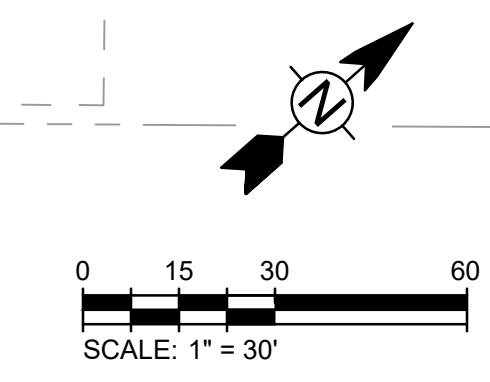
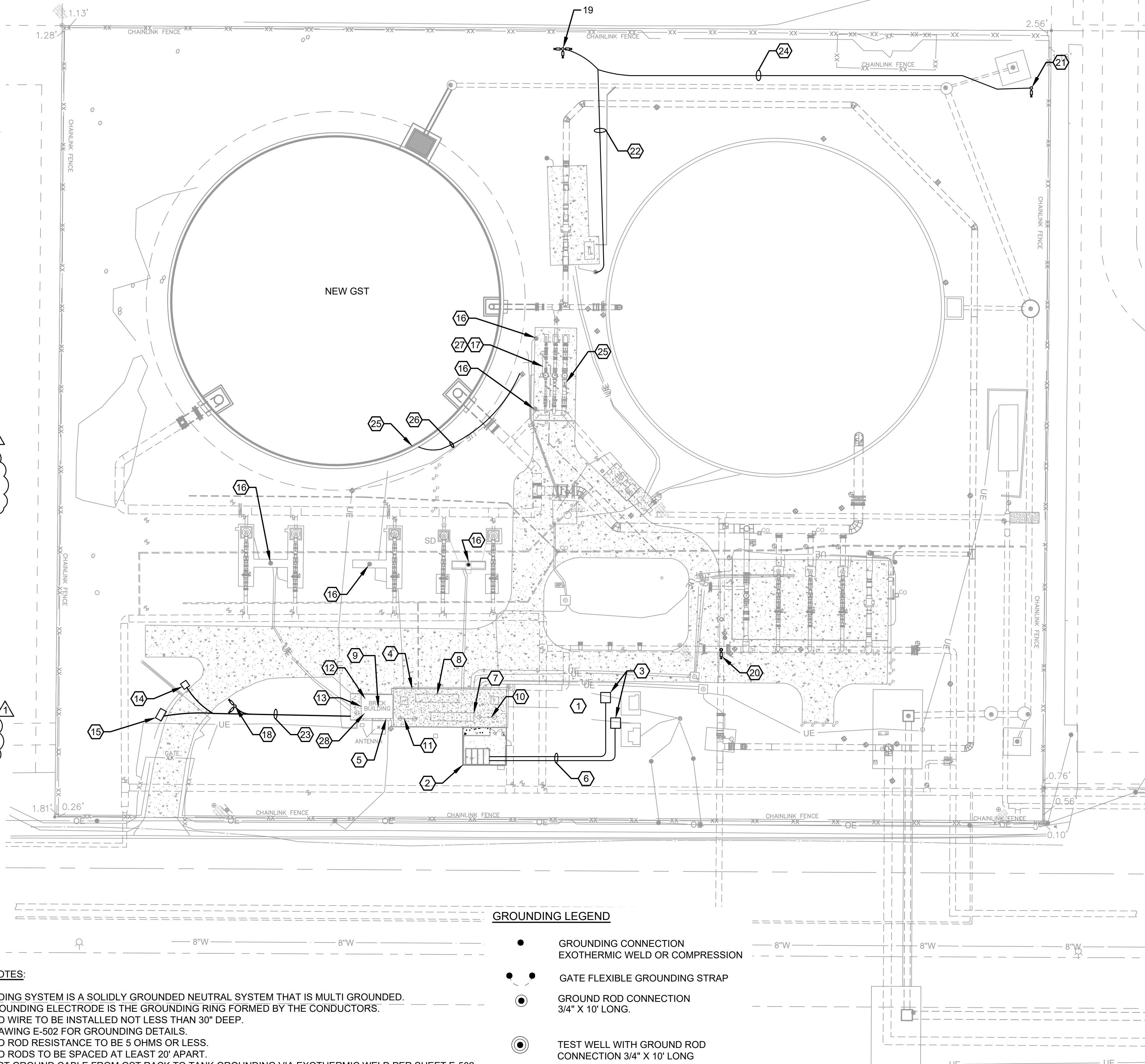
(CONT'D)

GENERAL NOTES:

1. GROUNDING SYSTEM IS A SOLIDLY GROUNDED NEUTRAL SYSTEM THAT IS MULTI GROUNDED.
2. THE GROUNDING ELECTRODE IS THE GROUNDING RING FORMED BY THE CONDUCTORS.
3. GROUND WIRE TO BE INSTALLED NOT LESS THAN 30" DEEP.
4. SEE DRAWING E-502 FOR GROUNDING DETAILS.
5. GROUND ROD RESISTANCE TO BE 5 OHMS OR LESS.
6. GROUND RODS TO BE SPACED AT LEAST 20' APART.
7. CONNECT GROUND CABLE FROM GST RACK TO TANK GROUNDING VIA EXOTHERMIC WELD PER SHEET E-502.
8. CONNECT GST LADDER TO TANK GROUNDING PER SHEET E-502

GROUNDING LEGEND

- GROUNDING CONNECTION EXOTHERMIC WELD OR COMPRESSION
- GATE FLEXIBLE GROUNDING STRAP
- GROUND ROD CONNECTION 3/4" X 10' LONG.
- TEST WELL WITH GROUND ROD CONNECTION 3/4" X 10' LONG
- #4/0 STRANDED BARE COPPER WIRE, SOFT DRAWN AS SHOWN ON PLANS



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KEYED NOTES CONT'D:

- 22 NEW DUCTBANK FROM CAMERAS 7, 8 & 9 TO EXISTING STUB-UP AT AGUA VISTA CONTROL VALVE LIGHT POLE. DUCTBANK SHALL CONSIST OF 1-FIBER OPTIC CABLE AND 2-1" CONDUITS, 1-SPARE AND 1 WITH 4-#10 XHHW - 2-#10 GND CABLES.
- 23 NEW DUCTBANK SHALL BE ROUTED FROM THE EXISTING VAULT TO NEW GATE LIGHTING AND SECURITY EQUIPMENT. DUCTBANK SHALL CONSIST OF THE FOLLOWING:
3-1" CONDUITS (2 SPARE), 1 WITH CABLES FOR FIREBOX, INTERCOM AND GATE CONTROLS PER MFR. FROM GATE CONTROLLER TO SECURITY PANEL.
2-1" CONDUITS (1 SPARE), 1 WITH 3-#10 XHHW-2, #10 GND FOR GATE OPERATOR POWER FROM EXISTING PANEL B1.
2-1" CONDUITS (1 SPARE), 1 WITH 2-#10 XHHW-2, # 10 GND FOR GATE FLOOD LIGHT FROM EXISTING PANEL B1.
1-2" CONDUIT WITH CAT6 CABLE FROM SECURITY PANEL TO SECURITY TERMINATION PANEL.
2-1" CONDUIT (1 SPARE), 1 WITH 2-#10 XHHW-2, #12 GND TO ETHERNET SWITCH IN SECURITY TERMINATION PANEL FROM SECURITY PANEL.
- 24 NEW DUCTBANK TO BE ADDED AS SHOWN. DUCTBANK SHALL CONSIST OF 2-2" CONDUITS. ONE CONDUIT SHALL BE SPARE AND ONE CONDUIT SHALL CONTAIN 1 - CAT6 CABLE.
- 25 HEAT TRACE SHALL BE ADDED AT TRIPLE CONTROL VALVE ASSEMBLY AND NEW GST INSTRUMENTATION. REFER TO SHEET E-113 FOR DETAILS.
- 26 EXISTING DUCTBANK AND CONDUCTORS THAT ARE REMOVED DURING EXISTING GST DEMOLITION SHALL BE REPLACED IN KIND. NEW DUCTBANK SHALL INCLUDE THE FOLLOWING:
9-#10 XHHW-2, #12 GND IN 1" CONDUIT GST LEVEL ELECTRODES TO LEVEL CONTROL PANEL
6-#12 XHHW-2, #12 GND IN 1" CONDUIT LEVEL ELECTRODE PANEL TO SCADA PANEL
4-#10 XHHW-2, 2-#12 GND POWER TO TANK TOP RECEPTACLE AND LIGHT FROM EXISTING POWER PANEL 'A' IN 1" CONDUIT
EXISTING DUCTBANK/VAULTS/PULLBOXES SHALL BE UTILIZED TO ROUTE THE FOLLOWING CONDUCTORS TO EXISTING ELECTRICAL SCADA EQUIPMENT:
4-#10 XHHW-2, 2-#12 GND POWER TO TANK TOP RECEPTACLE AND LIGHT FROM EXISTING POWER PANEL 'A'
8-#10 XHHW-2, 4-#12 GND LEVEL CONTROL PANEL, PRESSURE TRANSMITTER PANEL RECEPTACLE AND HEAT TRACE PANELS TO POWER PANEL 'A1'
- 28 EXISTING SECURITY PANEL LOCATION. REFER TO SHEET I-102 FOR MODIFICATIONS TO SECURITY PANEL.

ADDENDUM No. 3
STATE OF TEXAS
ROBERT D. GRUBB
38772
PROFESSIONAL ENGINEER
6/28/23

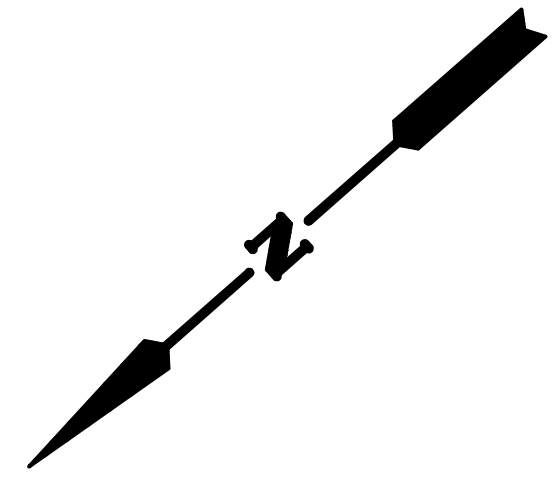
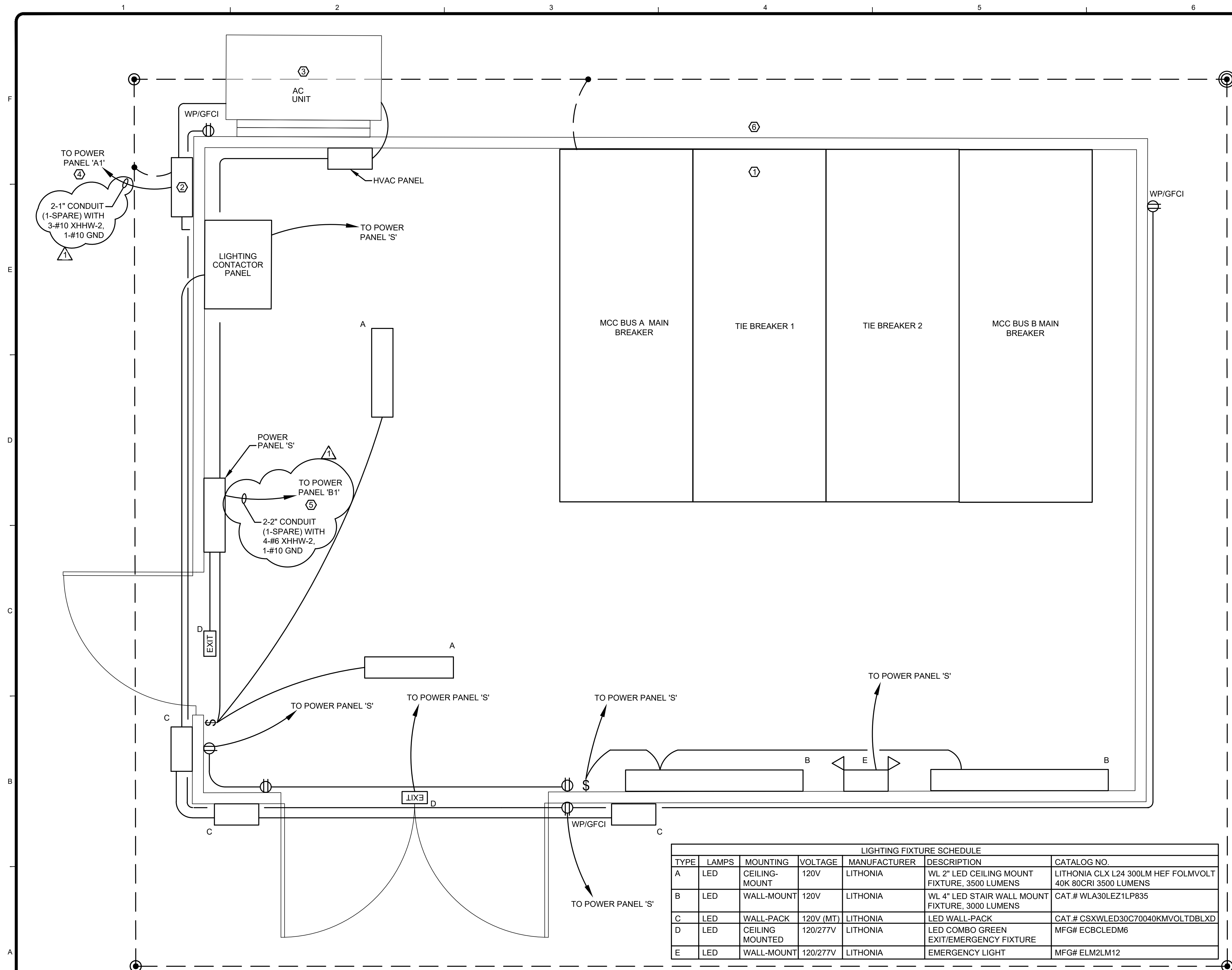
SAN ANTONIO WATER SYSTEM
BITTERS PUMP STATION UPGRADES AND TANK REPLACEMENT PROJECT
PROPOSED ELECTRICAL SITE PLAN

MARK	DATE	DESCRIPTION
1	6/28/23	ADDENDUM No. 3

SAN ANTONIO WATER SYSTEM
BITTERS PUMP STATION UPGRADES AND TANK REPLACEMENT PROJECT
PROPOSED ELECTRICAL SITE PLAN

PROJ:	200-09308-20001
DESN:	CG
DRWN:	SG
CHKD:	SM

E-106



0 1 2
SCALE IN FEET

GROUNDING LEGEND

- GROUNDING CONNECTION EXOTHERMIC WELD OR COMPRESSION
- GATE FLEXIBLE GROUNDING STRAP
- ⊙ GROUND ROD CONNECTION 3/4" X 10' LONG.
- ⊙ TEST WELL WITH GROUND ROD CONNECTION 3/4" X 10' LONG
- #4/0 STRANDED BARE COPPER WIRE, SOFT DRAWN AS SHOWN ON PLANS

GENERAL NOTES:

1. GROUNDING SYSTEM IS A SOLIDLY GROUNDED NEUTRAL SYSTEM THAT IS MULTI GROUNDED.
2. THE GROUNDING ELECTRODE IS THE GROUNDING RING FORMED BY THE CONDUCTORS.
3. GROUND WIRE TO BE INSTALLED NOT LESS THAN 30" DEEP.
4. SEE DRAWING E-502 FOR GROUNDING DETAILS.
5. GROUND ROD RESISTANCE TO BE 5 OHMS OR LESS.
6. GROUND RODS TO BE SPACED AT LEAST 20' APART.
7. REFER TO SHEET E-107 FOR ADDITIONAL CABLE AND CONDUIT IN THE SWITCHGEAR BUILDING.

KEYED NOTES:

- ① TIE TO GROUND GRID.
- ② PROVIDE NEMA 4X DISCONNECT SWITCH AND RECEPTACLE FOR CONDENSER.
- ③ PAD MOUNT AC CONDENSER.
- ④ SWITCHGEAR BUILDING AC UNIT SHALL BE POWERED FROM EXISTING POWER PANEL 'A1'. POWER PANEL 'A1' IS 208/120V EQUIPPED WITH A SPARE 20A, 3 POLE BREAKER. IF AC POWER PROTECTION REQUIREMENT DIFFERS FROM AVAILABLE, CONTRACTOR SHALL FURNISH AND INSTALL COMPATIBLE BREAKER TO EXISTING SQUARE D HCM TYPE I-LINE PANELBOARD.
- ⑤ SWITCHGEAR POWER PANEL 'S' SHALL BE POWERED FROM EXISTING POWER PANEL 'B1'. POWER PANEL 'B1' IS 208/120V. CONTRACTOR SHALL FURNISH AND INSTALL COMPATIBLE 60A, 3P BREAKER TO EXISTING SQUARE D HCN TYPE I-LINE PANELBOARD.
- ⑥ SWITCHGEAR SHALL BE PROVIDED WITH REAR DOORS. DOORS NOT SHOWN FOR CLARITY.

LIGHTING FIXTURE SCHEDULE						
TYPE	LAMPS	MOUNTING	VOLTAGE	MANUFACTURER	DESCRIPTION	CATALOG NO.
A	LED	CEILING-MOUNT	120V	LITHONIA	WL 2" LED CEILING MOUNT FIXTURE, 3500 LUMENS	LITHONIA CLX L24 300LM HEF FOLMVOLT 40K 80CRI 3500 LUMENS
B	LED	WALL-MOUNT	120V	LITHONIA	WL 4" LED STAIR WALL MOUNT FIXTURE, 3000 LUMENS	CAT.# WLA30LEZ1LP835
C	LED	WALL-PACK	120V (MT)	LITHONIA	LED WALL-PACK	CAT.# CSXWLED30C70040KMVOLTDBLXD
D	LED	CEILING MOUNTED	120/277V	LITHONIA	LED COMBO GREEN EXIT/EMERGENCY FIXTURE	MFG# ECBCLDM6
E	LED	WALL-MOUNT	120/277V	LITHONIA	EMERGENCY LIGHT	MFG# ELM2LM12

A SWITCHGEAR BUILDING LAYOUT
SCALE: AS SHOWN

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ADDENDUM No. 3
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SAN ANTONIO WATER SYSTEM

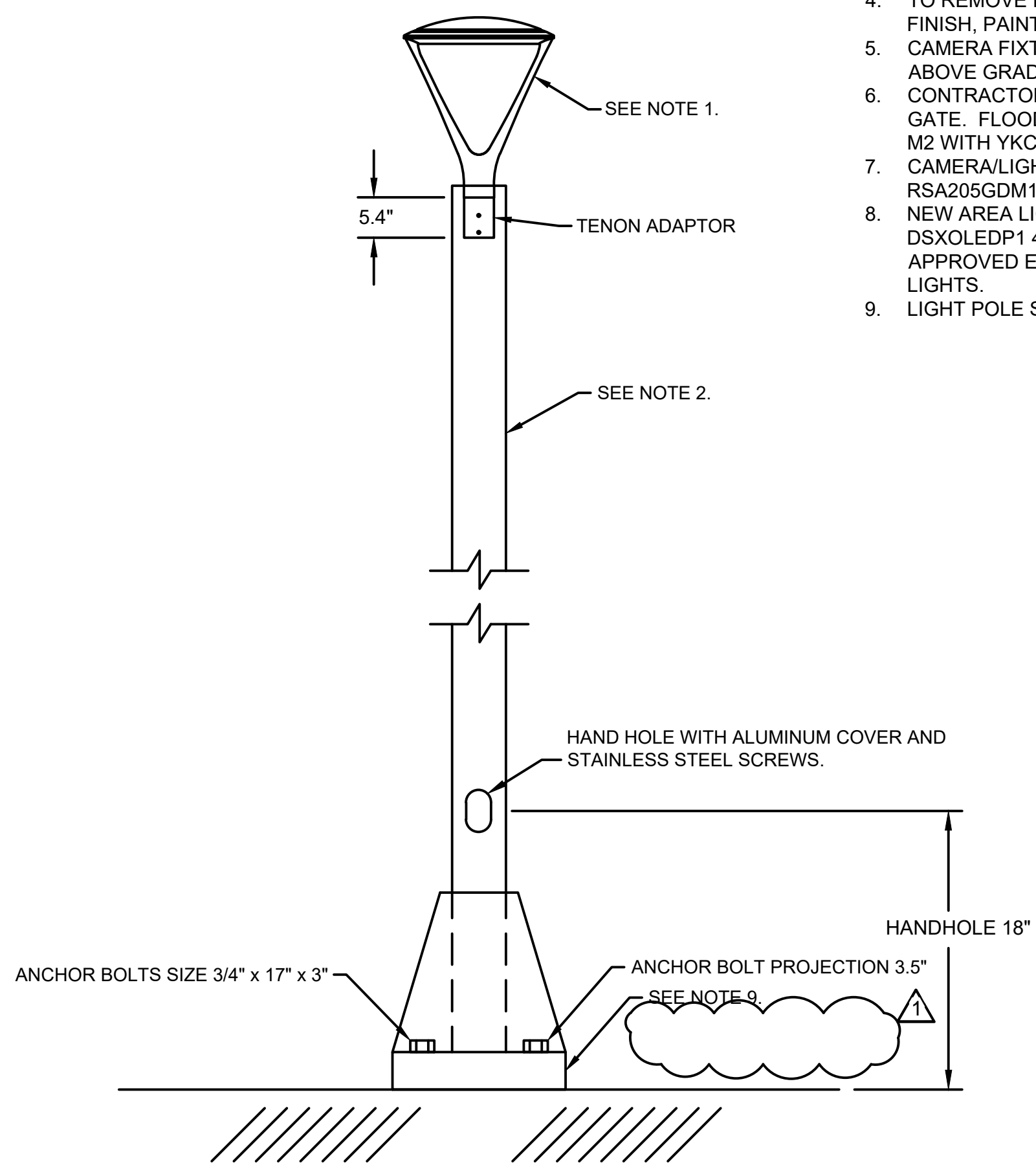
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SAN ANTONIO WATER SYSTEM
BITTERS PUMP STATION UPGRADES
AND TANK REPLACEMENT PROJECT
**PROPOSED SWITCHGEAR
BUILDING ELECTRICAL
FLOOR PLAN**

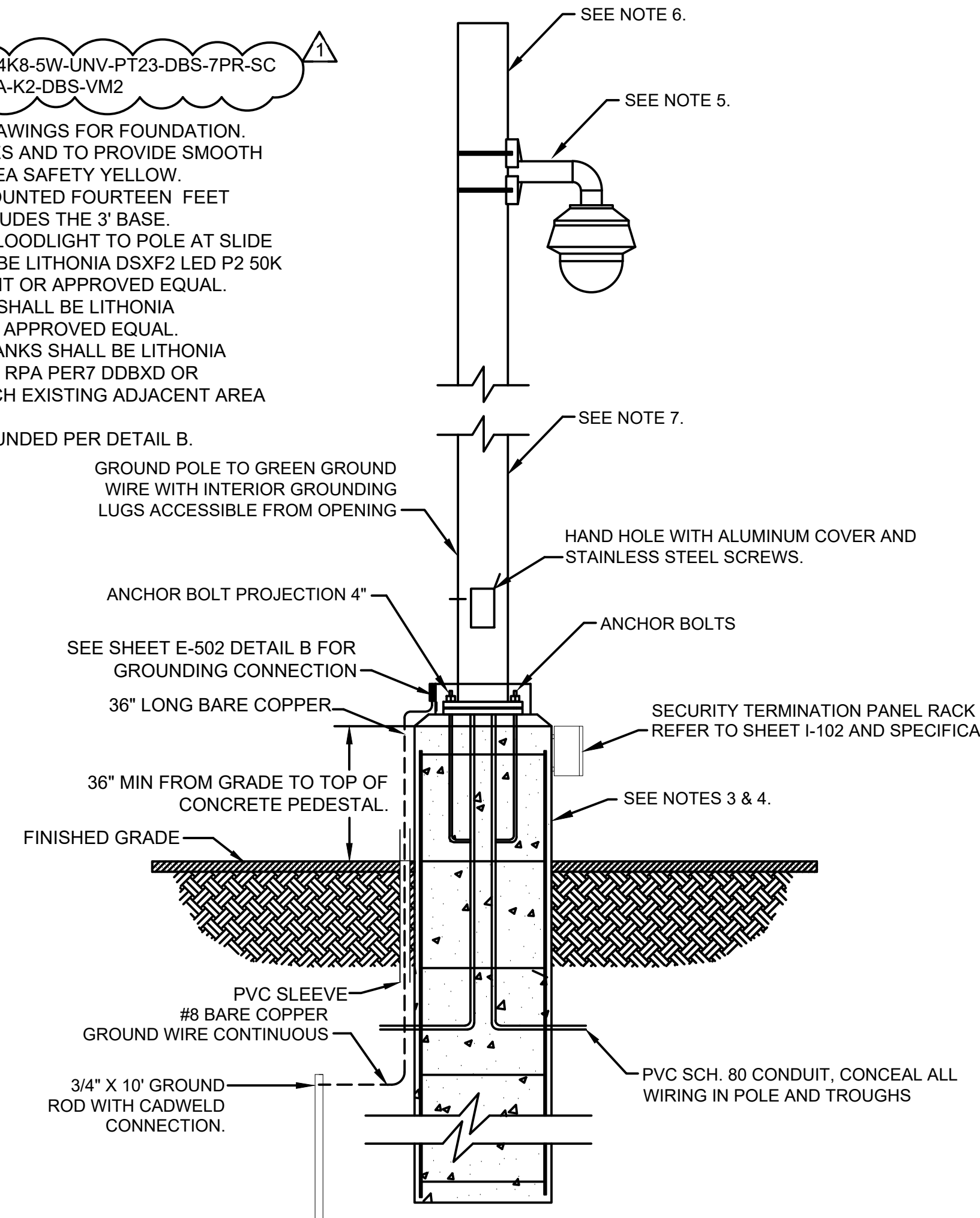
PROJ: 200-09308-20001
DESN: CG
DRWN: SG
CHKD: SM

E-110

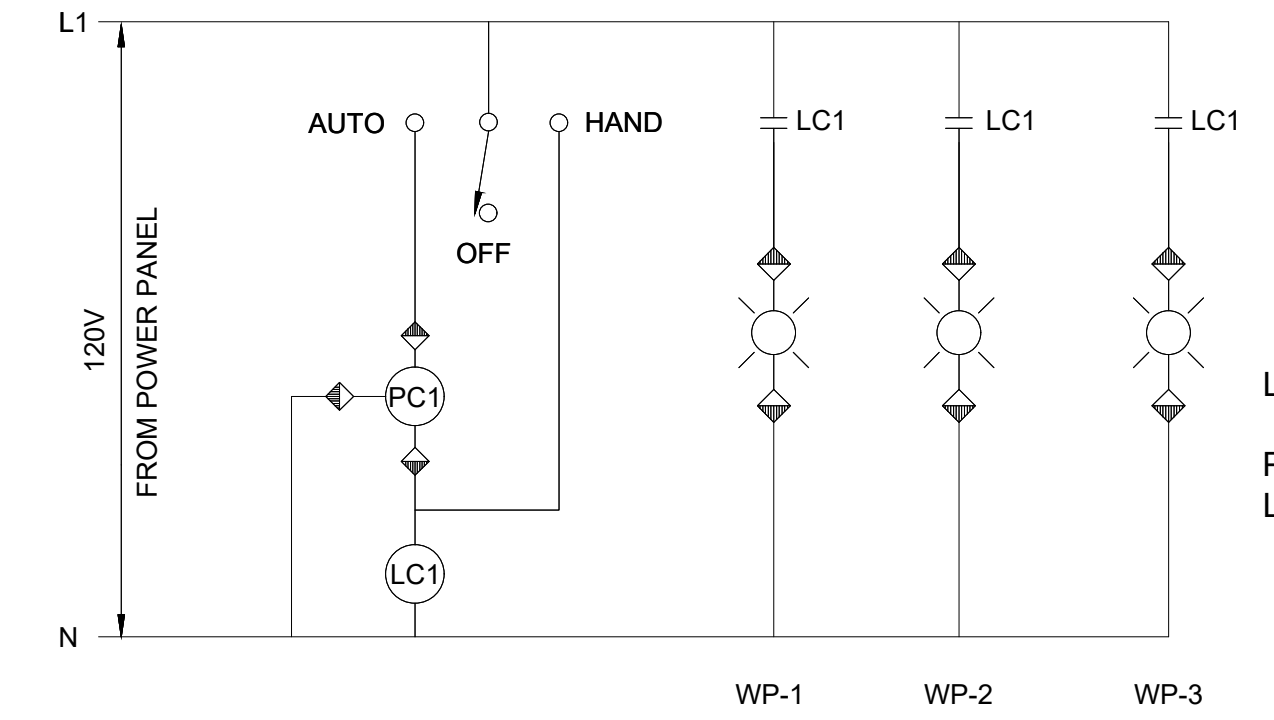
- GENERAL NOTES:**
1. FIXTURE CAT# UR20-28L-70-4K8-5W-UNV-PT23-DBS-7PR-SC
POLE CAT# RTS-K-20-60-A-TA-K2-DBS-VM2
 2. SEE STRUCTURAL PLAN DRAWINGS FOR FOUNDATION.
TO REMOVE IRREGULARITIES AND TO PROVIDE SMOOTH
FINISH, PAINT EXPOSED AREA SAFETY YELLOW.
 3. CAMERA FIXTURE TO BE MOUNTED FOURTEEN FEET
ABOVE GRADE, WHICH INCLUDES THE 3' BASE.
 4. CONTRACTOR TO MOUNT FLOODLIGHT TO POLE AT SLIDE
GATE. FLOODLIGHT SHALL BE LITHONIA DSXF2 LED P2 50K
M2 WITH YKC62 YOKE MOUNT OR APPROVED EQUAL.
 5. CAMERA/LIGHT POLE BASE SHALL BE LITHONIA
RSA205GDM19VDDDBXD OR APPROVED EQUAL.
 6. NEW AREA LIGHT BEHIND TANKS SHALL BE LITHONIA
DSXOLEDP1 40K T2S MVOLT RPA PER7 DDBXD OR
APPROVED EQUAL TO MATCH EXISTING ADJACENT AREA
LIGHTS.
 7. LIGHT POLE SHALL BE GROUNDED PER DETAIL B.



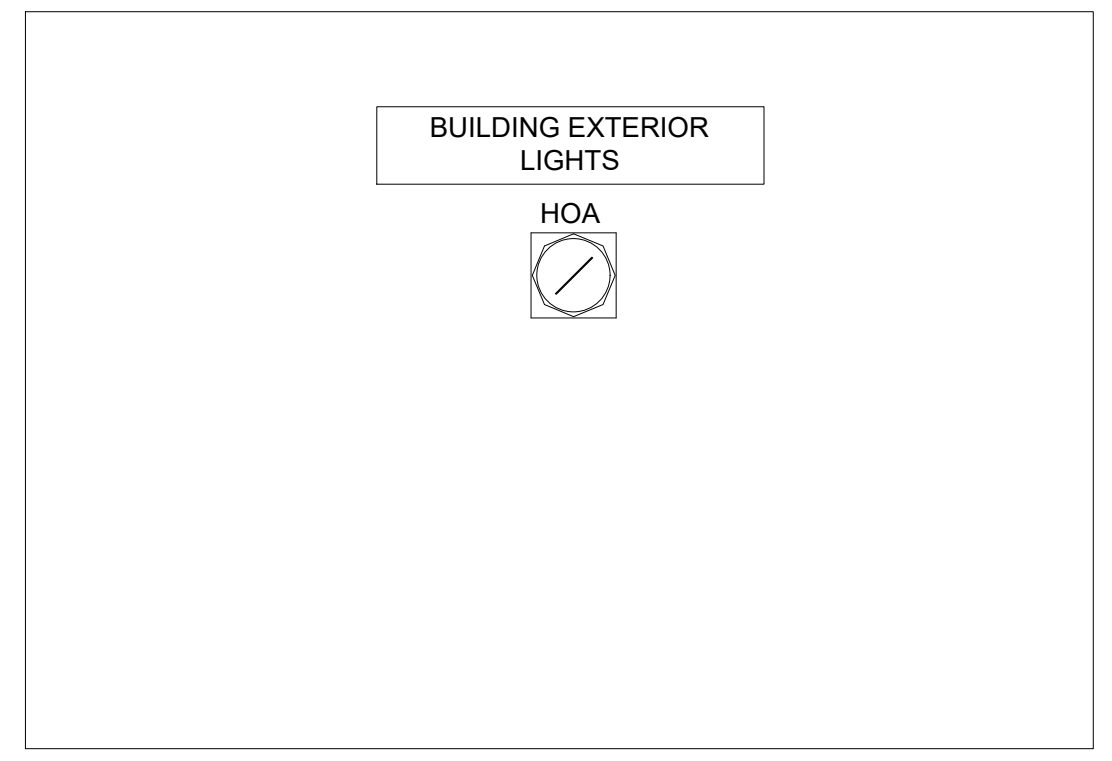
A AREA LIGHT POLE (TYPICAL)
SCALE: N.T.S.



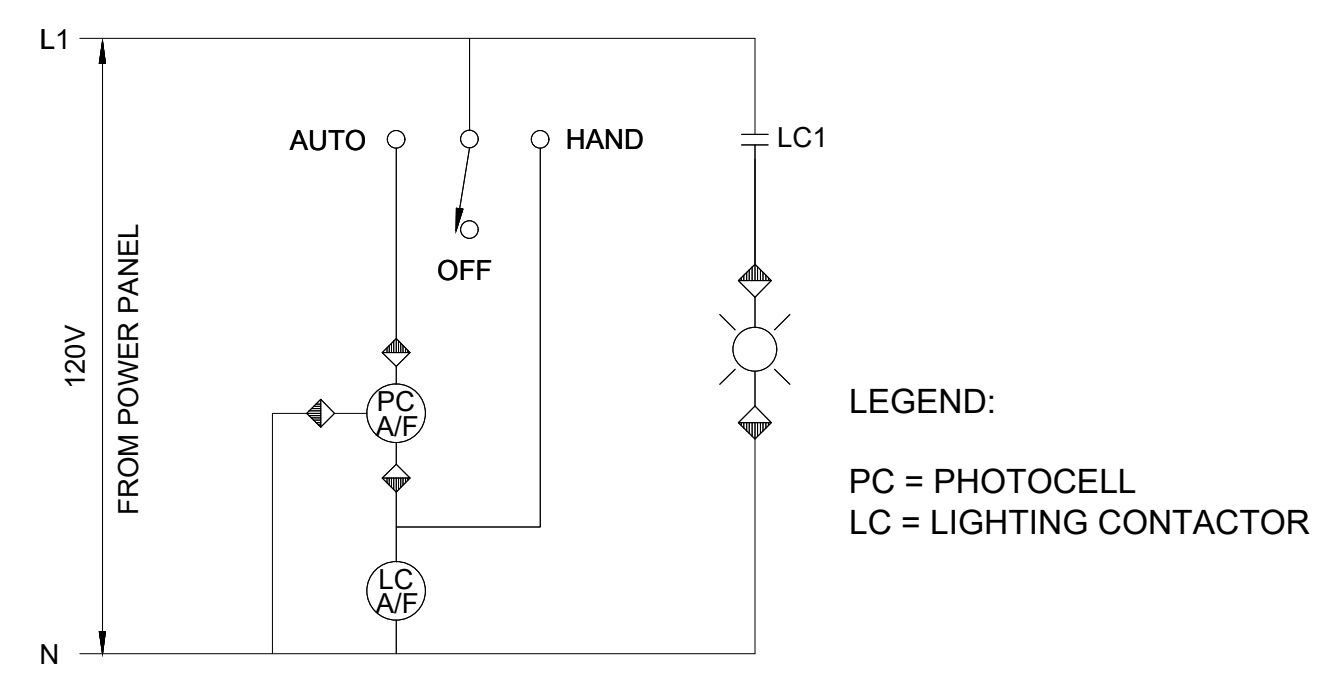
B CAMERA POLE (TYPICAL)
SCALE: N.T.S.



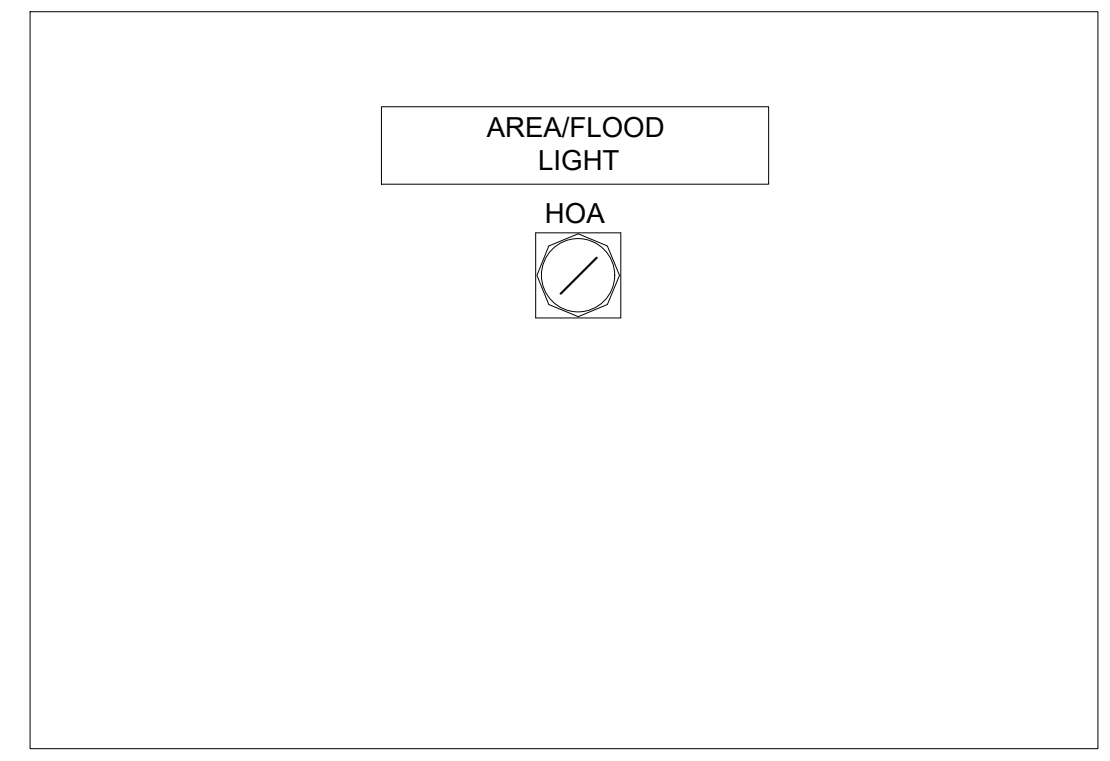
C SWITCHGEAR BUILDING EXTERIOR LIGHTING
SCALE: N.T.S.



D LIGHTING CONTACTOR SWING PANEL
LAYOUT - SWITCHGEAR BUILDING
SCALE: N.T.S.



E ADDED AREA/FLOOD LIGHTS
SCALE: N.T.S.



F LIGHTING CONTACTOR SWING PANEL
LAYOUT - AREA/FLOOD LIGHT
SCALE: N.T.S.

GRUBB ENGINEERING, INC.
ELECTRICAL POWER SYSTEMS
DESIGN AND TESTING
TYPE FIRM REGISTRATION NO. 3904
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ADDENDUM No. 3
STATE OF TEXAS
ROBERT D. GRUBB
38772
PROF. ELECTRICAL ENGINEER
6/28/23

SAN ANTONIO WATER SYSTEM

MARK	DATE	DESCRIPTION	BY
1	6/28/23	ADDENDUM No. 3	GEI

SAN ANTONIO WATER SYSTEM
BITTERS PUMP STATION UPGRADES
AND TANK REPLACEMENT PROJECT
EXTERIOR LIGHTING

PROJ:	200-09308-20001
DESN:	CG
DRWN:	SG
CHKD:	SM

E-114

