
Addendum No. 4

Date: *June 6, 2023*

Solicitation Number: *FY23-ITBCON-35*

Title: *Franklin Water Treatment Plant Clearwell Improvements*

Issued by: *Mike Benchich*
mbenchich@hazenandsawyer.com

Bidders should acknowledge receipt of this addendum on the Bid Form. Failure to acknowledge receipt of this addendum may result in the bid not being considered.

All Bidders are responsible for monitoring CLTWater's Contracting Opportunities website ([Invitation to bid \(ITB\) - City of Charlotte \(charlottenc.gov\)](https://www.charlottenc.gov/procurement/invitation-to-bid-itb)) for additional changes or clarifications.

Modifications to the Invitation to Bid:

#	ITB Section # (or Contract Drawing #) and Name	Page and Paragraph (or Drawing Revision #)	Modification
1	40 05 24.23 – Steel Pipe for Water Service	40 05 24.23-1 Paragraph 1.01.D	Replace Paragraph 1.01.D in its entirety with the following: “Temporary Bracing (Stulling): Provide temporary bracing designed by the pipe manufacturer for pipe and fittings in accordance with AWWA M11 (5 th Edition) Chapter 12 and Table 12-1 to avoid over-deflection or damage during handling, transportation, and storage. The Contractor is responsible for supporting pipe and fittings during installation, including backfill and compaction. Do not rely on temporary bracing provided by the pipe manufacturer to support the pipe under construction loads without the pipe manufacturer's written approval.”

2	40 05 24.23 – Steel Pipe for Water Service	40 05 24.23-6 Paragraph 2.02.C	In Paragraph 2.02.C, replace “40-feet” with “50-feet”.
3	40 05 24.23 – Steel Pipe for Water Service	40 05 24.23-7 Paragraph 2.02.E	In the Buried Steel Pipe Schedule, in the second row below the main header row, replace “0.344” with “0.594”. This change increases the minimum sheet or plate thickness for the 72-inch pipe in Drawing Profile A to 0.594 inches.
4	Contract Drawing C53, Yard Piping Civil Connection Details	Revision No. 3	Add the following note to the Drawing: “10. All connections between new piping and existing piping, regardless of pipe material(s), shall be electrically isolated.”
5	Contract Drawing C54, Yard Piping Civil Connection Details	Revision No. 3	Add the following note to the Drawing: “12. All connections between new piping and existing piping, regardless of pipe material(s), shall be electrically isolated.”
6	Contract Drawing E10, Proposed Site Electrical Overall Site Plan	Revision No. 3	Replace Contract Drawing E10 in its entirety with the attached revised Contract Drawing E10. It has been revised to show location of telephone junction boxes, existing handhole, existing manhole, the polymer building, and circuits JBT1-1 and MHDOT1-1. It has also been revised to show corrected LP2 circuit names, and Note 14 has been modified.

7	Contract Drawing E400, High Service Pump Station No.1 Electrical Power Plan	Revision No. 3	Replace Contract Drawing E400 in its entirety with the attached revised Contract Drawing E400. It has been revised to show the instrument transmitters being installed on PVC sheet with receptacle also installed on the PVC sheet.
8	Contract Drawing E552, High Service Pump Station No.1 Valve Vault Electrical One Line Diagrams	Revision No. 3	Replace Contract Drawing E552 in its entirety with the attached revised Contract Drawing E552. It has been revised to show the valve actuators being furnished by the Owner, installed by the Contractor as well as increasing the ampere rating of the disconnect switch.
9	Contract Drawing E700, Dewatering Building Electrical One Line Diagrams	Revision No. 3	Replace Contract Drawing E700 in its entirety with the attached revised Contract Drawing E700. It has been revised to show additional conduit runs, and the conduit sizes have been enlarged.
10	Contract Drawing ED2, Electrical Details	Revision No. 3	Replace Contract Drawing ED2 in its entirety with the attached revised Contract Drawing ED2. It has been revised to show names of equipment in the Electrical Rack Detail. An Electrical Handhole Detail has also been added.

----- END OF ADDENDUM NO. 4 -----

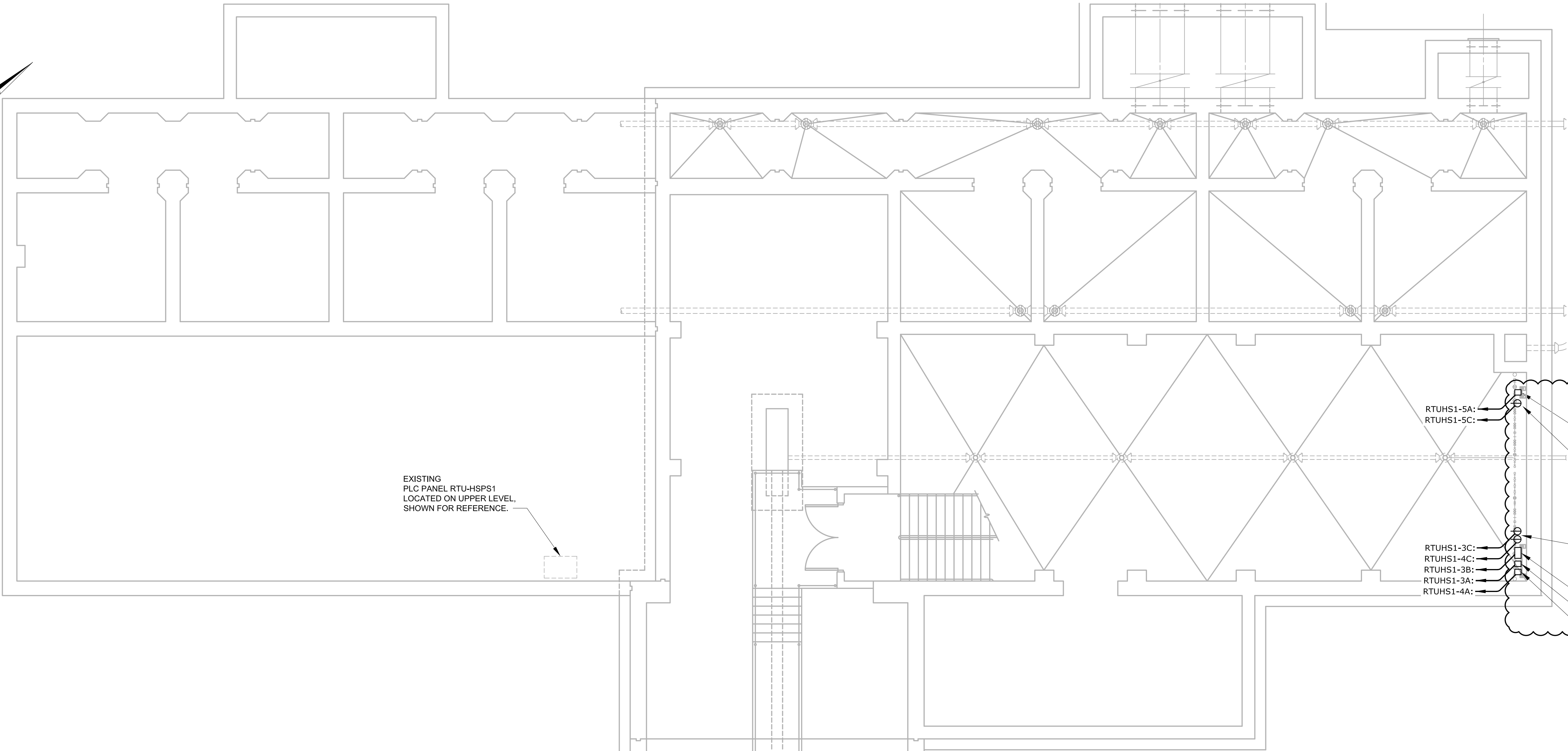
The below listed attachments follow:

- Contract Drawing E10 (revised)
- Contract Drawing E400 (revised)
- Contract Drawing E552 (revised)
- Contract Drawing E700 (revised)
- Contract Drawing ED2 (revised)

NOTES:

1. SEE SHEET E1 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.
2. INSTRUMENT TRANSMITTERS MOUNTED TO 1/2" THICK PVC SHEET.
INSTALL RECEPTACLES ON PVC SHEET BELOW INSTRUMENT.

3



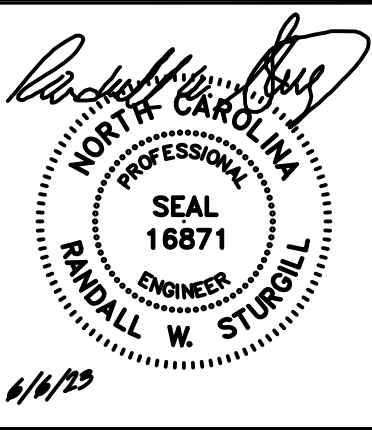
EXISTING
PLC PANEL RTU-HSPS1
LOCATED ON UPPER LEVEL,
SHOWN FOR REFERENCE.

PLAN AT ELEV. 774.55
SCALE: 3/16" = 1' - 0"

3	ADDENDUM NO.4	6/2023	MJB
2	CONSTRUCTION	4/2023	MJB
1	REGULATORY APPROVAL	2/8/2023	MJB
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	M. BENCHICH
DESIGNED BY:	R. LAWSON
DRAWN BY:	R. LAWSON
CHECKED BY:	R. STURGILL
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

ISSUED FOR
CONSTRUCTION

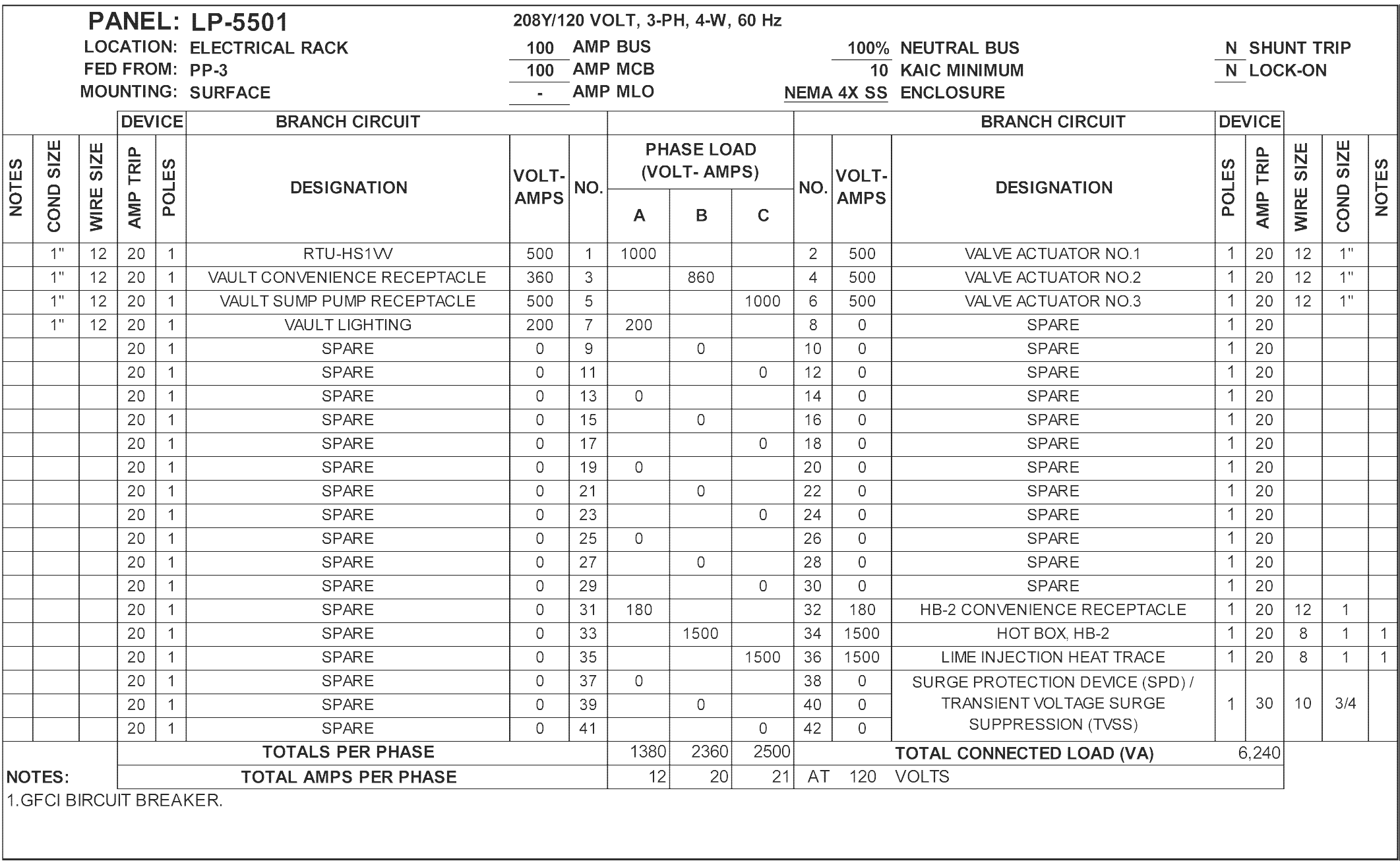


CHARLOTTE WATER
CHARLOTTE, NORTH CAROLINA

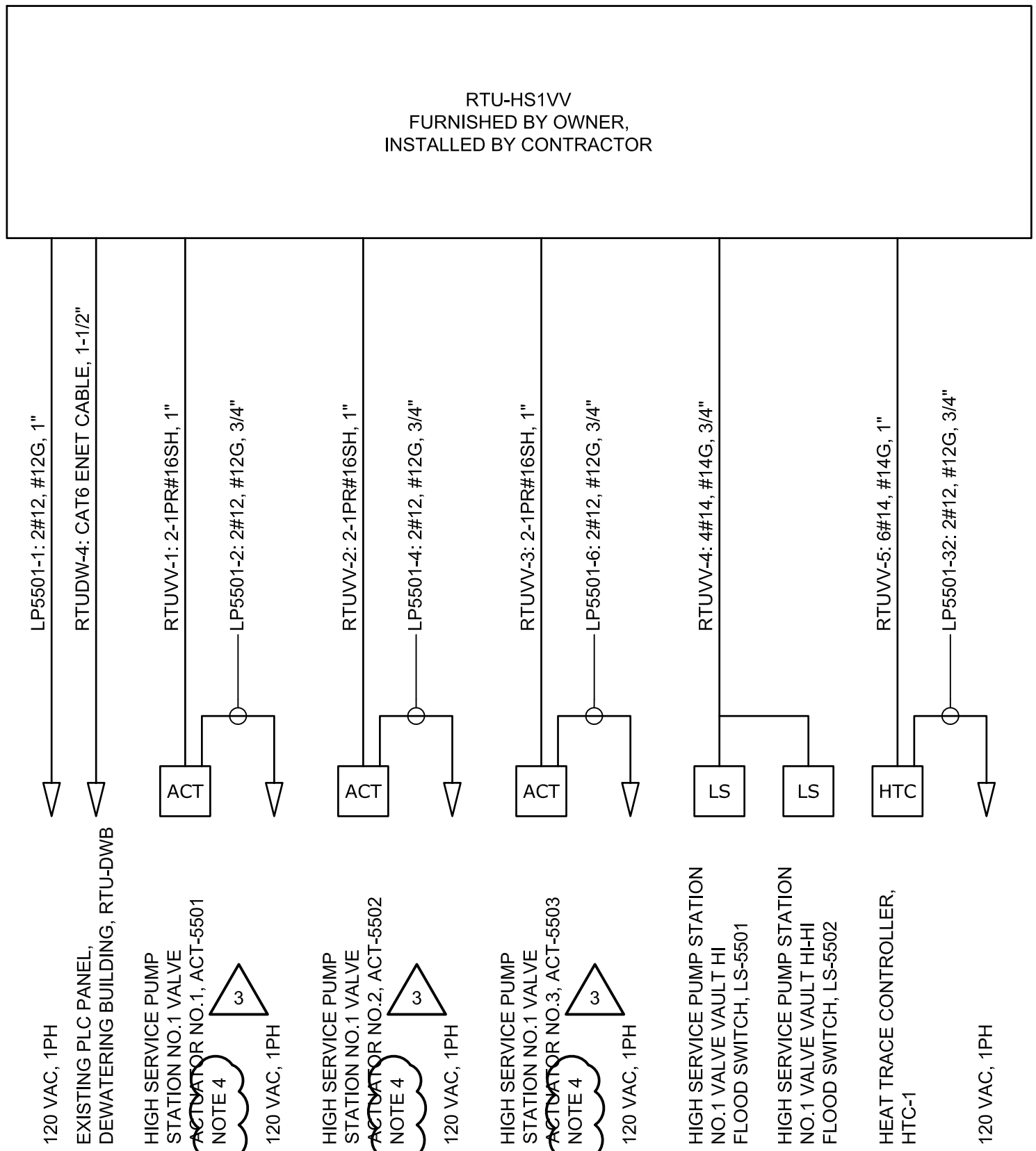
FRANKLIN WATER TREATMENT PLANT
CLEARWELL IMPROVEMENTS


HIGH SERVICE PUMP STATION NO.1
ELECTRICAL
POWER PLAN

DATE:	APRIL 2023
HAZEN NO.:	30563-027
CONTRACT NO.:	1
DRAWING NUMBER:	E400

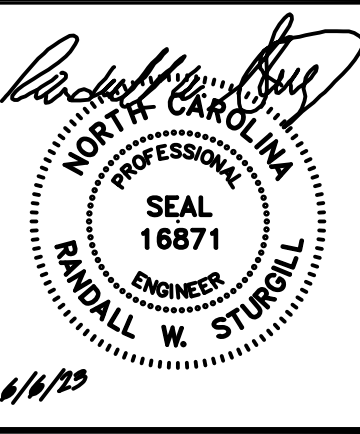


1. SEE SHEET E1 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.
2. REMOVE EXISTING WIREWAY, MOTOR STARTERS, MINI POWER CENTER, VALVE ACTUATORS, AND ALL UN-USED CABLE AND CONDUIT. CONDUITS FROM WIREWAY TO PANEL PP-3 SHALL BE RE-USED. CONDUIT TO RTU-HSPS2 WILL NOT BE RE-USED.
3. CONNECT NEW CIRCUIT TO 3P-50A SPARE CIRCUIT BREAKER. RE-USE EXISTING CONDUIT TO HIGH SERVICE PUMP STATION NO.1 VALVE VAULT. EXTEND CONDUIT TO NEW DISCONNECT SWITCH. PULL NEW WIRE.
4. FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.



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1	REGULATORY APPROVAL	2/8/2023	MJB		
REV	ISSUED FOR	DATE	BY		

ISSUED FOR
CONSTRUCTION



STURGILL
ENGINEERING
P.A.

C-1210

ONE SOUTH MAIN ST.
LEXINGTON, NC 27292
(336) 238-1249 PH.
(336) 236-6393 FAX

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HAZEN AND SAWYER
9101 SOUTHERN PINE BOULEVARD
CHARLOTTE, NORTH CAROLINA 28273
LICENSE NO.: C-0381

CHARLOTTE WATER
CHARLOTTE, NORTH CAROLINA

FRANKLIN WATER TREATMENT PLANT
CLEARWELL IMPROVEMENTS

HIGH SERVICE PUMP STATION NO.1 VALVE VAULT ELECTRICAL ONE LINE DIAGRAMS

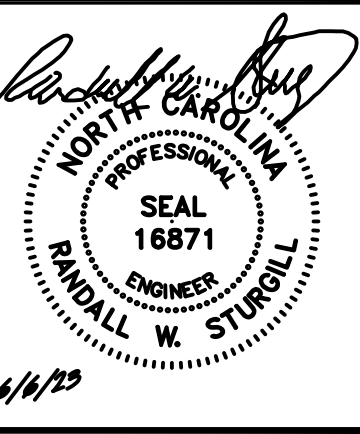
DATE:	APRIL 2023
HAZEN NO.:	30563-027
CONTRACT NO.:	1
DRAWING NUMBER:	E552

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ISSUED FOR CONSTRUCTION



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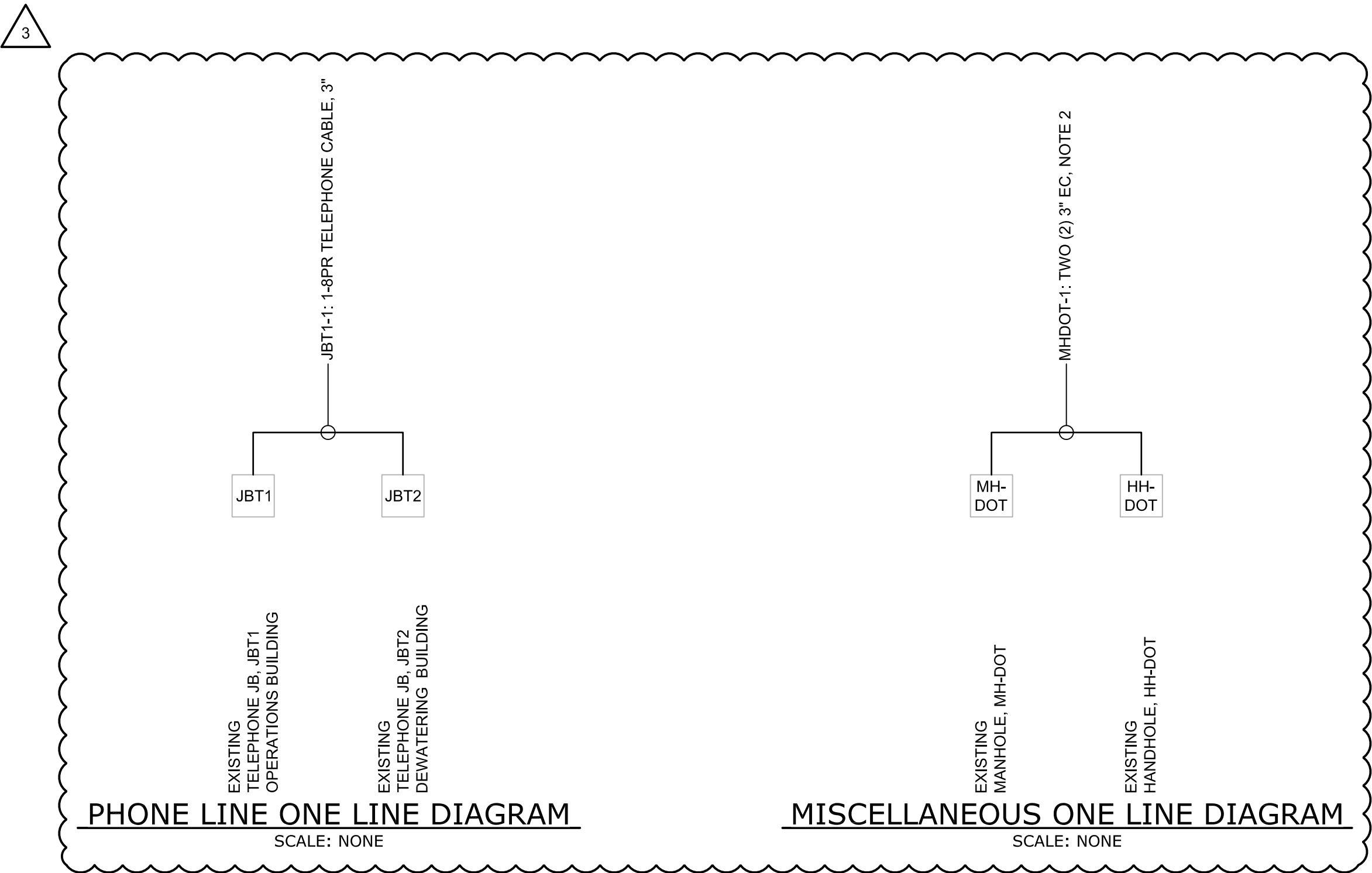
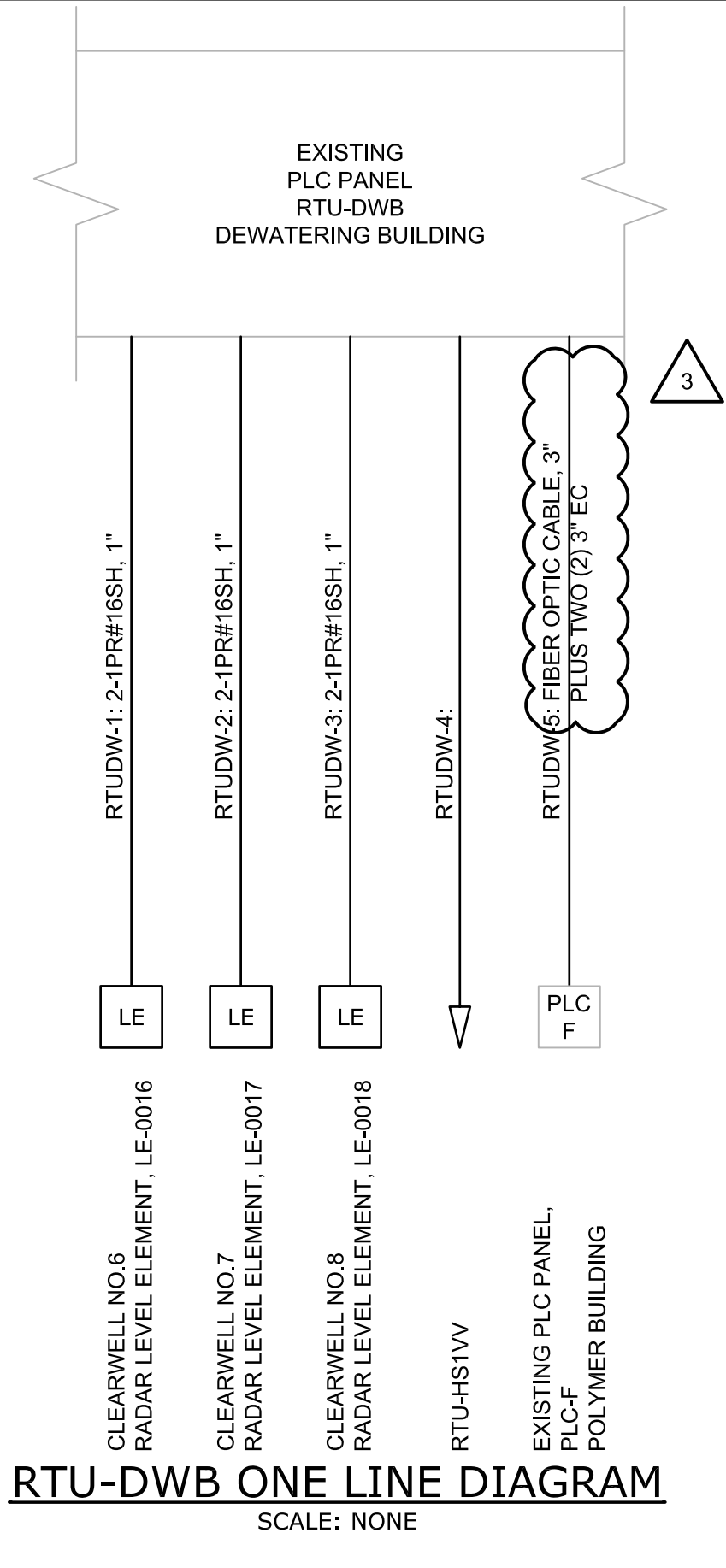
HAZEN AND SAWYER
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CHARLOTTE, NORTH CAROLINA 28273
LICENSE NO.: C-0381

CHARLOTTE WATER
CHARLOTTE, NORTH CAROLINA

FRANKLIN WATER TREATMENT PLANT
CLEARWELL IMPROVEMENTS

DEWATERING BUILDING
ELECTRICAL
ONE LINE DIAGRAMS

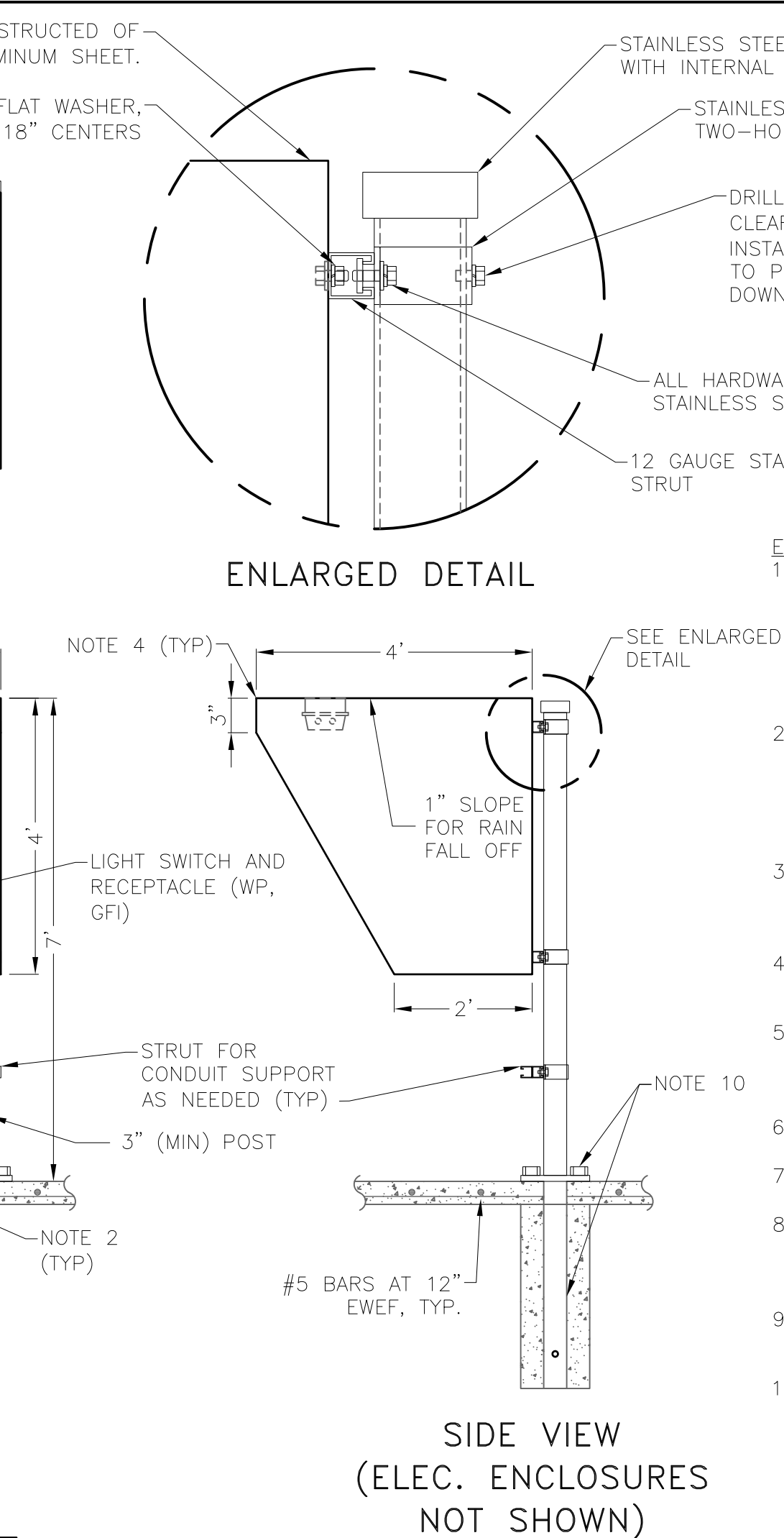
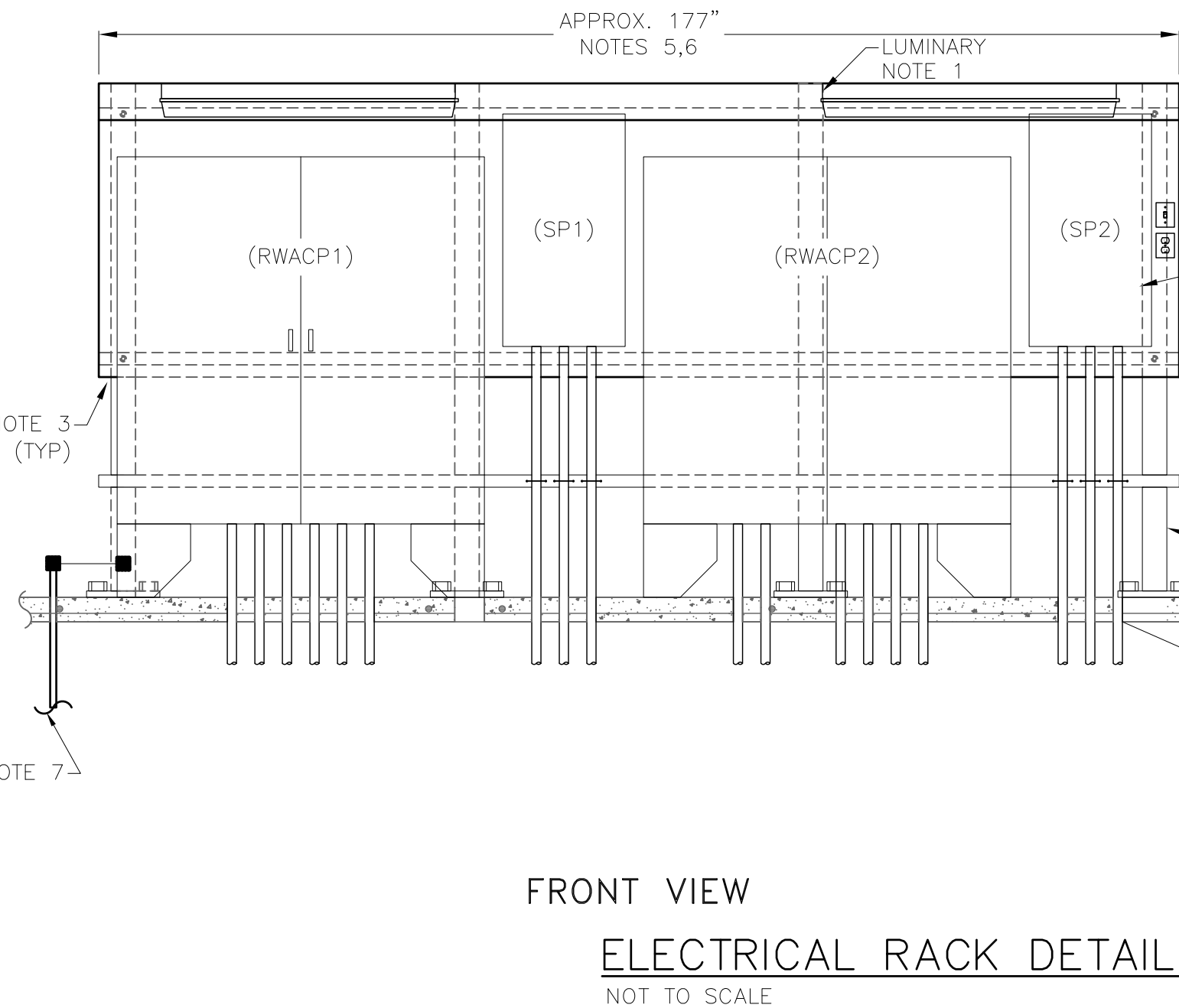
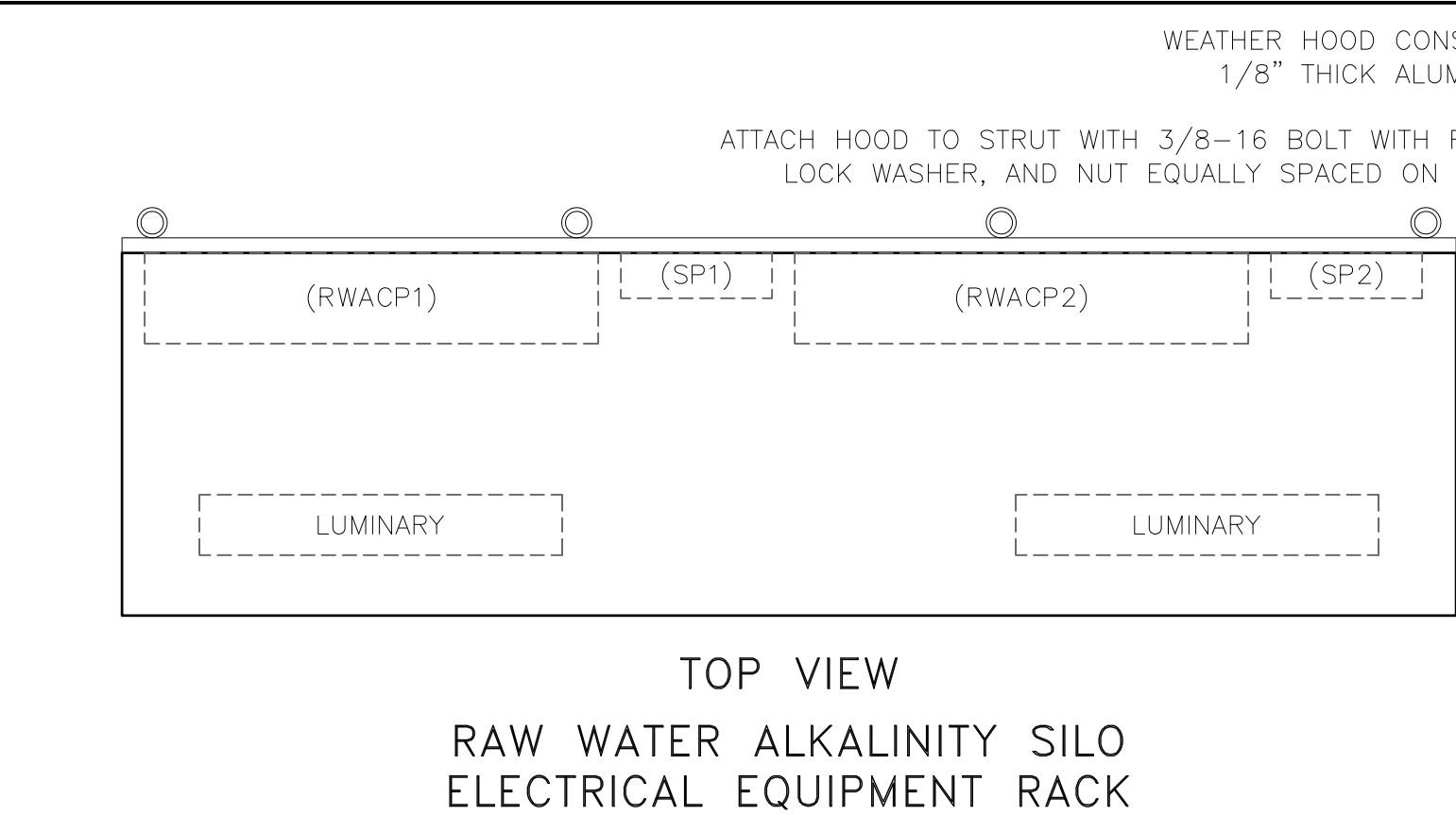
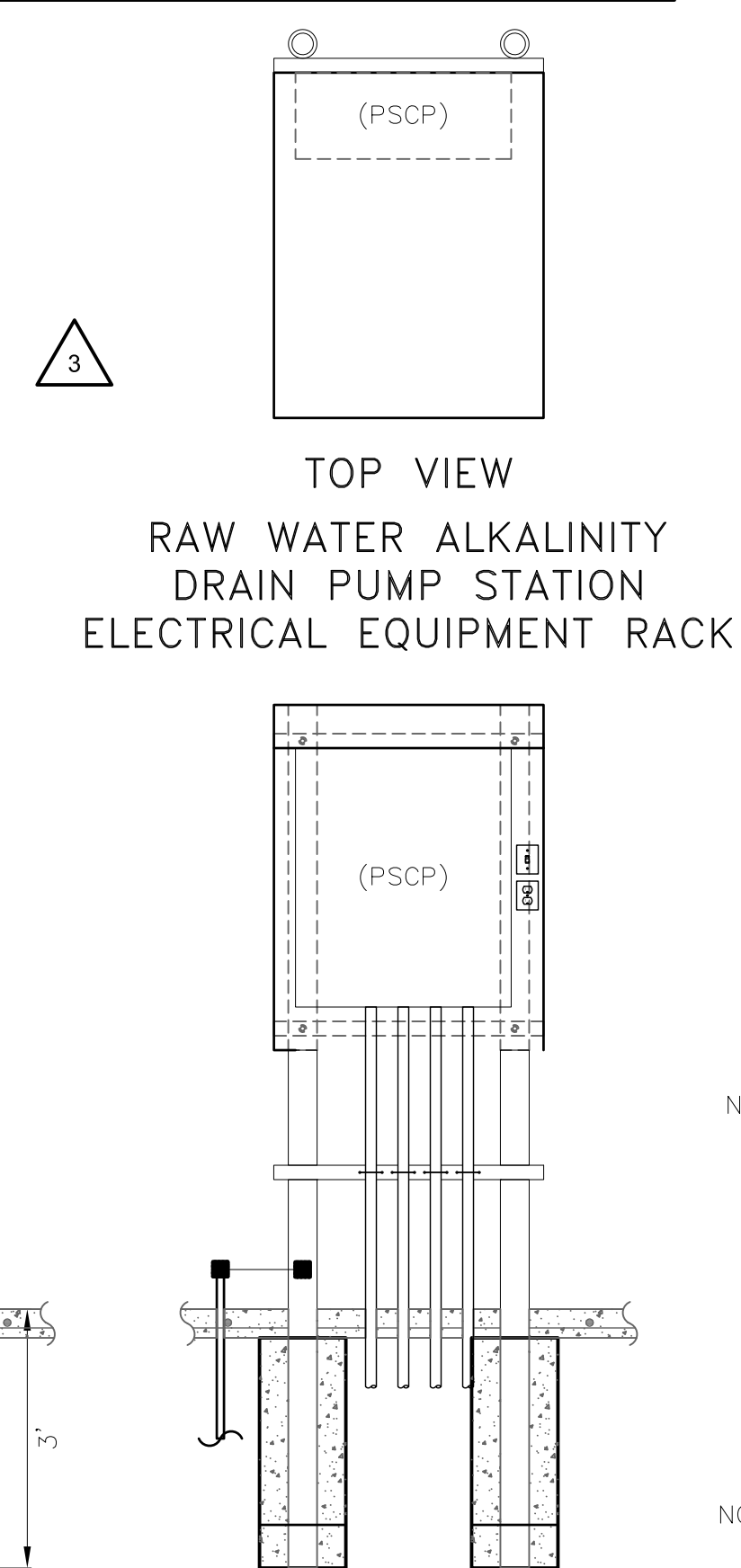
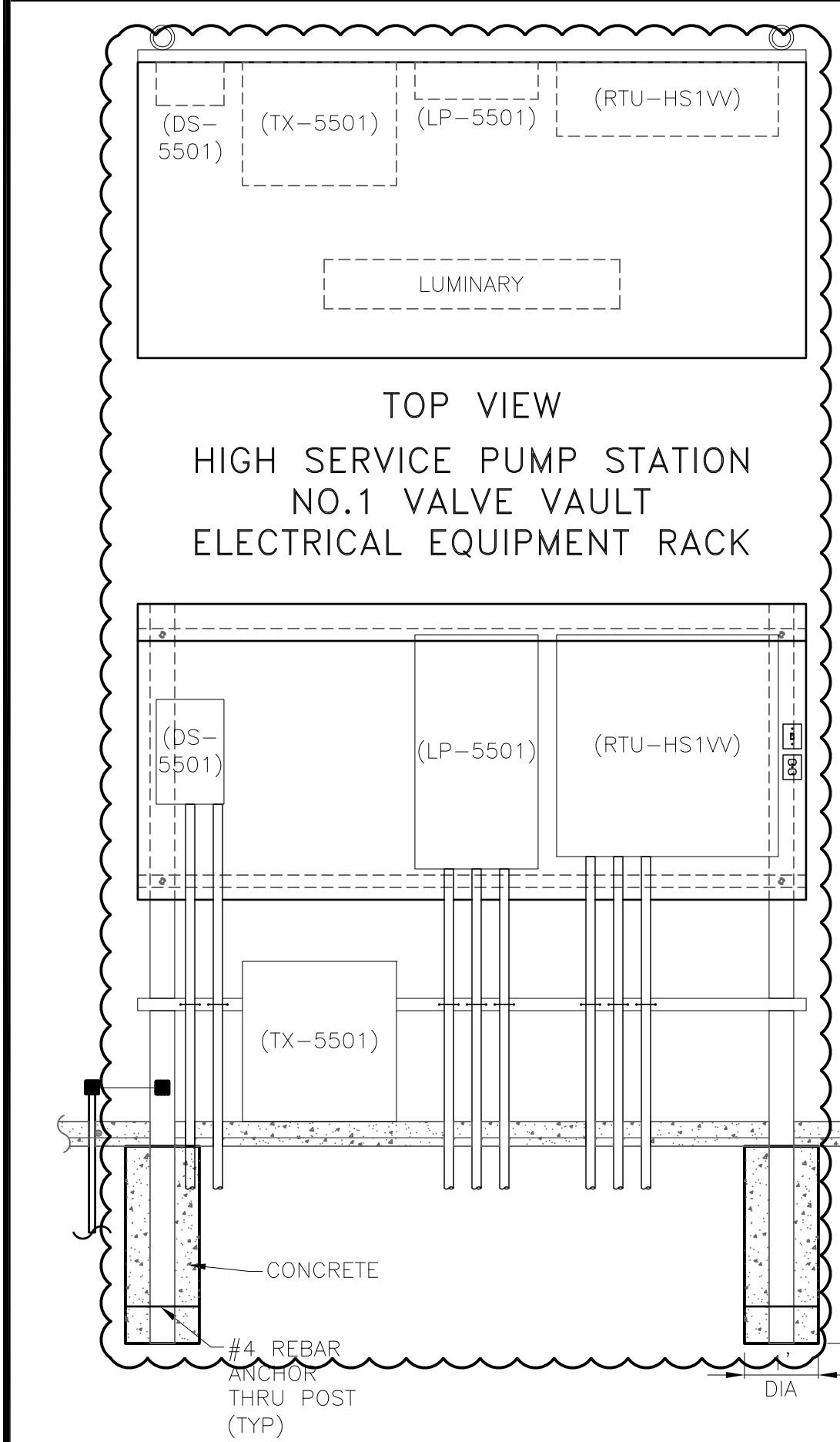
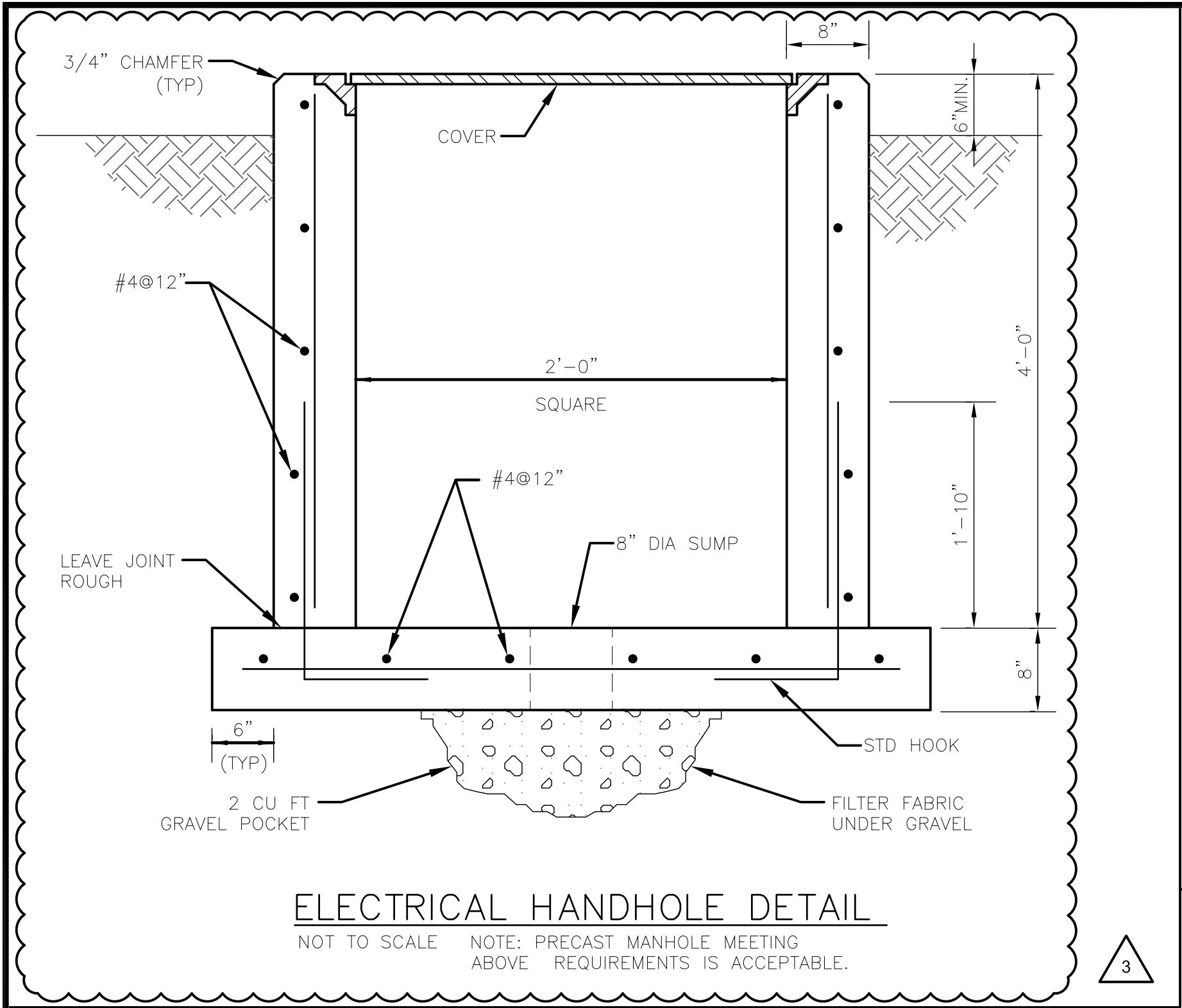
DATE:	APRIL 2023
HAZEN NO.:	30563-027
CONTRACT NO.:	1
DRAWING NUMBER:	E700



NOTES:

- SEE SHEET E1 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.
- EMPTY CONDUIT WILL BE USED BY OTHERS TO INSTALL NEW CHARLOTTE DOT FIBER OPTIC CABLE. THIS CONDUIT AND CHARLOTTE DOT FIBER OPTIC CABLE MUST BE INSTALLED BEFORE PIPING AT CLEAR WELL 3 CAN BE INSTALLED. SEE NOTE 5 ON SHEET E10.

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- ELECTRICAL EQUIPMENT RACK NOTES:**
- LUMINARY IN WEATHER HOOD SHALL BE 4-FOOT LED MINIMUM 8000 LUMENS WITH ENCLOSED FIBERGLASS HOUSING, WET LABEL LISTED:
LITHONIA FEM4LED-9L/57-IMACD,
COLUMBIA HEM4-50HL-DCA-EU,
METALUX 4VT2-LD4-8-DR-UNV-L850-CD1-WL OR EQUAL.
 - CORROSION-RESISTANT COATING OF THIXOTROPIC COAL TAR PAINT SHALL BE APPLIED TO ALL CONDUITS THAT TURN OUT OF CONCRETE, MASONRY, OR EARTH. THE COATING SHALL CONSIST OF A HEAVY COAT OF COAL TAR PAINT EXTENDING SIX INCHES ON EACH SIDE OF THE POINT OF TURN-OUT.
 - ZINC RICH PAINT SHALL BE FIELD APPLIED TO ALL SAW CUTS, PIPE THREADS, FASTNER HARDWARE, AND DAMAGED FINISHES OF GALVANIZED MATERIALS.
 - ALL CORNERS AND EDGES ON WEATHER HOOD SHALL BE ROUNDED AND SMOOTH.
 - WIDTH OF RACK, HOOD, AND CONCRETE PAD TO BE DETERMINED BY EQUIPMENT SUPPLIED. CONTRACTOR TO PROVIDE HOOD FABRICATION DETAILS WITH EQUIPMENT SUBMITTALS.
 - NO MORE THAN 6' BETWEEN VERTICAL SUPPORTS.
 - 5/8" DIA. x 10' GROUND ROD, QTY. AS REQD. BY NEC & LAHJ.
 - EXTEND CONCRETE PAD 12" PAST EACH SIDE AND THE BACK OF THE RACK. EXTEND CONCRETE PAD AT LEAST 60" PAST FRONT FACE OF RACK.
 - HOOD STIFFENERS SHALL BE PROVIDED TO PREVENT FROM BENDING OR WARPING.
 - RAW WATER ALKALINITY ELECTRICAL EQUIPMENT RACK SHALL HAVE 12"x12" STEEL PLATE WELDED TO THE VERTICAL SUPPORTS WITH A FULL PENETRATION BUTT WELD. EACH STEEL PLATE WILL BE SECURED TO THE CONCRETE WITH 4 CONCRETE ANCHORS. ALL OTHER RACKS WILL HAVE VERTICAL SUPPORT EMBEDDED IN 3' OF CONCRETE BELOW GRADE.

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FRANKLIN WATER TREATMENT PLANT
CLEARWELL IMPROVEMENTS

ELECTRICAL
DETAILS

DATE:	APRIL 2023
HAZEN NO.:	30563-027
CONTRACT NO.:	1
DRAWING NUMBER:	ED2