

14 February 2025

ADDENDUM NO. 3

RE: Chisholm Creek Utility Authority  
Wastewater Treatment Facility Improvements  
WCI File: 20-600-514-00

To All Prospective Bidders:

The Contract Documents for the referenced project are hereby amended in the following particulars only, with all other conditions remaining unchanged.

A. Plans

1. Sheet No. D-504  
CLARIFICATION that both existing plan views and the section view have a scale of  $\frac{1}{2}'' = 1'$ .
2. Sheet No. S-116  
CLARIFICATION to Concrete Water Cement Ratio shall not exceed 0.45 as stated in the specifications.
3. Sheet No. D-508  
CLARIFICATION that V920 (2" Ball Valve) is a manual valve as indicated on D-301, and not an actuated valve as indicated on Valve Schedule sheet D-508.
4. Sheet No. D-312  
CLARIFICATION that V410 and V411 shown in Section A8 are provided by Evoqua as part of their scope in Section 11400C in the Project Manual, and are not to be provided by Contractor as indicated on Valve Schedule sheet D-508.
5. Sheet No. D-124  
REMOVE and REPLACE sheet with attached Sheet D-124. The new sheet adds Construction Notes and Callouts #15-#17.

6. Sheet No. D-316  
REMOVE and REPLACE sheet with attached Sheet D-316. The new sheet adds Section View D8 to reference Construction Notes #16 & #17 from Revised Sheet D-124.
7. Sheets No. D-104 & D-110  
ADDITION of Keynotes #1 and #2 referencing installation of Thermal Expansion Joints and Threaded Connection with Ball Valve for draining.
8. Sheet No. A-501  
MODIFICATION of Section View A1 with revised insulation note.
9. Sheet No. A-502  
ADDITION to Door Schedule for Door #106 located at the proposed chemical feed room West of existing SBR Building #3 & #4 (See S-105) .
10. Sheet No. G-001  
CLARIFICATION that E-702 contains Belt Filter Press Control Block Diagram.
11. Sheet No. G-016  
ADDITION of influent flow signal to the PLC.
12. Sheet No. G-021  
ADDITION of Belt Filter Press common alarm signal XA-940.  
MODIFIED flow meter location and flow signal to the Belt Filter Press. Also, assigned I/O tag numbers to the flow meter.  
MODIFIED the Reuse Meter Pit flow meter to be shown as “bold” for new equipment.
13. Sheet No. E-002  
ADDITION of conduits C106, C107, and C108.
14. Sheet No. E-401  
ADDITION of conduit C108.
15. Sheet No. E-431  
MODIFIED the “Aerator 2 (Floating)” disconnect to show 100A/3P.
16. Sheet No. E-451  
ADDITION of North arrow.  
ADDITION of conduits C106 and C107.  
ADDITION of Keyed Note 7.
17. Sheet No. E-471  
ADDITION of conduit C108.  
ADDITION of Keyed Note 5.
18. Sheet No. E-604  
ADDITION of cable tag C106, C107, and C108 to the Communications – Conduit and Cable Schedule.

19. Sheet No. E-620  
ADDITION of UV Building PLC Inputs XC501, XC502, and XA940 to the I/O schedule.  
ADDITION of UV Building PLC Outputs XI501 and XI502 to the I/O schedule.
20. Sheet No. E-621  
ADDITION of Headworks Building PLC Input I/O schedule.
21. Sheet No. E-701  
REMOVED connection between the New Belt Filter Press Control Panel and existing hardwired controls.  
ADDITION of the Belt Filter Press Interface Panel and associated control signals.  
REVISED notes heading to say Block Diagram Notes instead of One-Line Notes.  
ADDITION of Block Diagram Note 7 and 8.
22. Sheet No. E-702  
MODIFIED the Belt Filter Press Control Block Diagram for improved clarity and to ensure consistency with sheet E-701.  
REVISED sheet title to be Belt Filter Press Control Block Diagram.  
ADDITION of control signals between the Belt Filter Press Interface Panel and existing Belt Press Control Panel.
23. Sheet No. E-710  
ADDITION of sludge pump control diagram detail.

B. PROJECT MANUAL

1. Section 00020 – Invitation To Bid:  
MODIFICATION to the Bid Date. Bids are now due on Tuesday February 25<sup>th</sup> at 11:00 AM. Electronic bidding procedures remain unchanged. Bid date has been modified on Planroom website.
2. Section 11260 – Rotary Lobe Pumps:  
CLARIFICATION that Vogelsang rotary lobe pumps will be allowed as an approved equal.
3. Section 11350 – Surface Aerator and Section 11260 – Submersible Mixer:  
CLARIFICATION that Aqua Turbo will be allowed as an approved equal for both the surface aerators and submersible mixers.
4. Section 02610 – Water/Sewer Pipes, Fittings, & Appurtenances, 2.5 Special Use Fittings, Paragraph F:  
ADD the following paragraph for air piping thermal expansion joints. “

F. Thermal Expansion Joints:

Joint type: Flanged per ANSI B16.5

Retaining ring (as required): Rigid, baked enamel ductile iron.

Provide limit/control rods.

Tube: EDPM

Cover: EDPM

Pressure rating: 190 psig.

Temperature rating: 250° F.

For use in blower/air applications.

Model / Manufacturer:

Proco Products, Inc., Stockton, CA; Series 232 FA.

Substitutions: Under provisions of Section 01600. ”

5. Section 02610 – Water/Sewer Pipes, Fittings, & Appurtenances, 2.4 Stainless Steel Air Pipe Fittings, Paragraph C:  
ADD the following paragraph for air piping stainless steel fittings. “

C. Stainless Steel:

1. Shall conform to ASTM A774, A403, ANSI B16.9, B36.19.

2. Shall be constructed of 304L.

3. Shall comply with Schedule 10 outside diameter. ”

6. Section 16511A – Pre-Negotiated Telemetry Scope of Services

REMOVE and REPLACE with attached modified pre-negotiated telemetry scope of services.



7. Section 00300 – Bid Form  
REMOVE Section and REPLACE with modified section. This revised Bid Form includes a modified price for Bid Item #6 to reflect the modified pre-negotiated telemetry scope of services. This revised Bid Form also adds three bid alternates which are referenced on Sheet E-451.

This ADDENDUM is hereby made a part of the Bidding Documents to the same extent as though contained in the original documents. Work to be included shall not be limited to narrative description contained herein, but shall also include adjustments or revisions to other work not mentioned, in order to accomplish the Work described.

Each Bidder shall acknowledge receipt of this ADDENDUM in the space provided on the Bid Form.

WILSON & COMPANY

A handwritten signature in blue ink that reads "Colton Woodard".

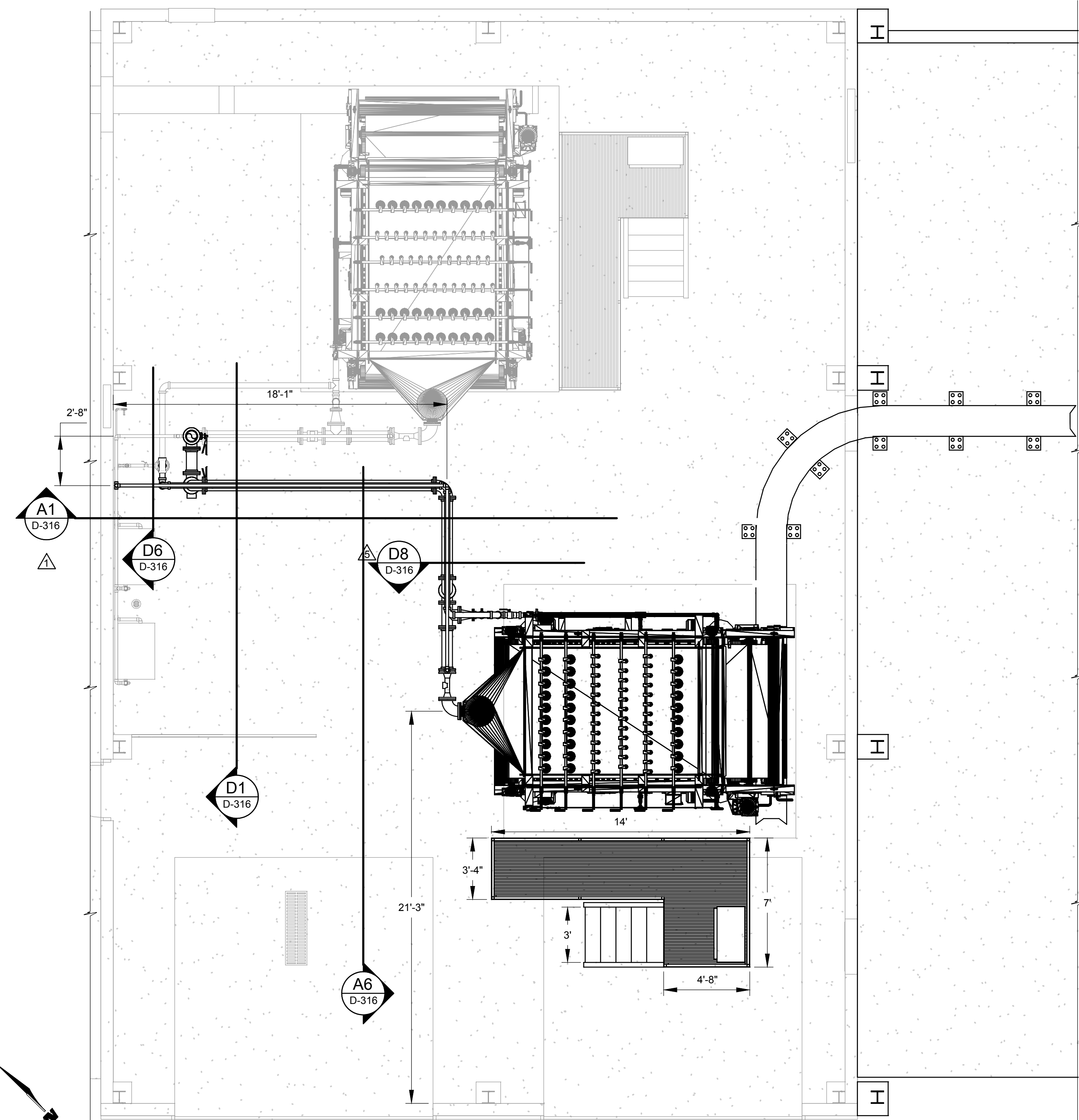
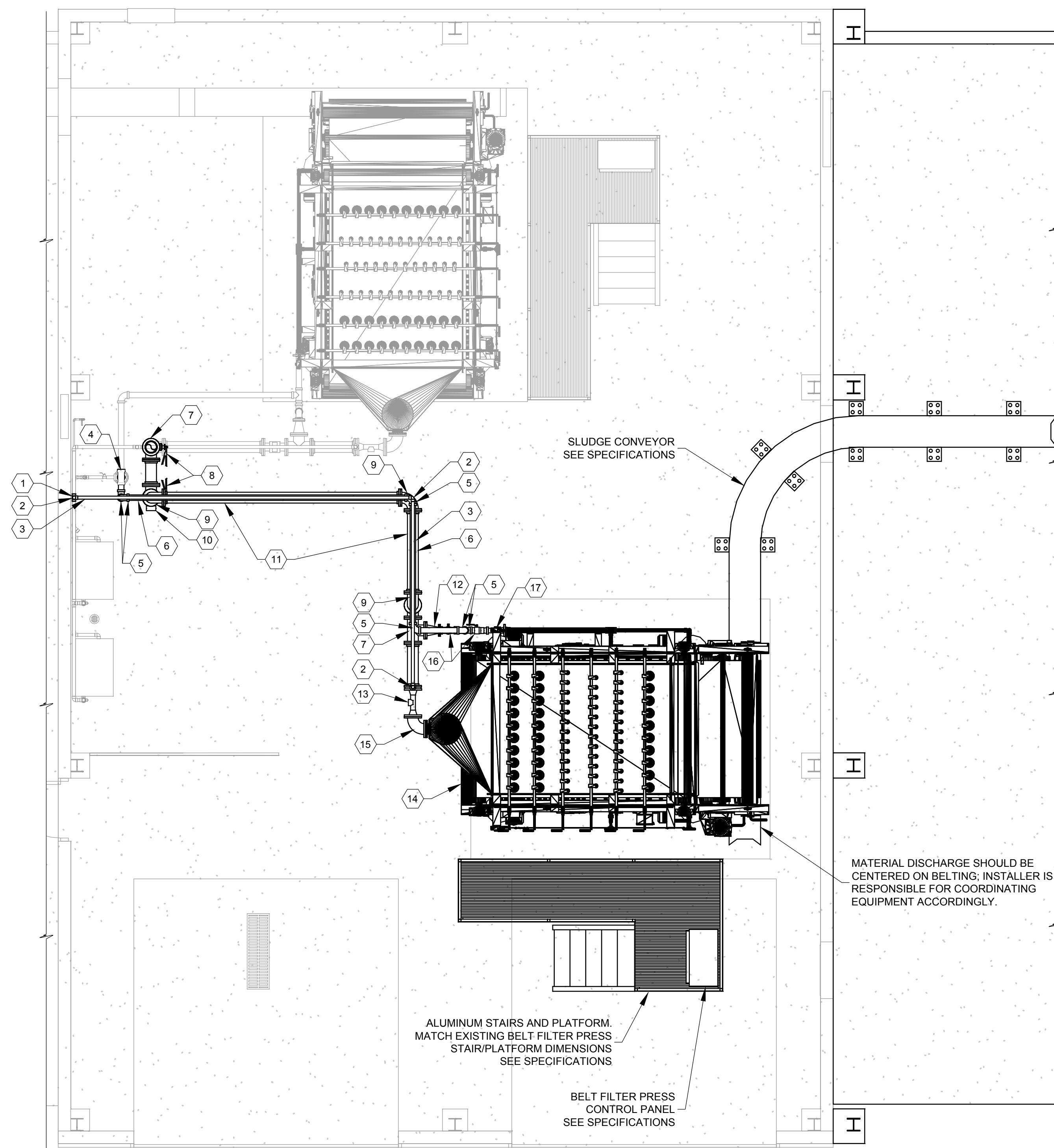
Colton Woodard  
Project Manager

**CONSTRUCTION NOTES:**

- 1. 1 1/2" SCH. 80 TEE
- 2. 1 1/2" SCH. 80 90° ELBOW
- 3. 1 1/2" SCH. 80 PIPING
- 4. 3" SCH. 80 TEE
- 5. 3" SCH. 80 90° ELBOW
- 6. 3" SCH. 80 PIPING
- 7. 6" DIP FL TEE
- 8. 6" PLUG VALVE
- 9. 6" DIP FL 90° ELBOW
- 10. 6" FLOW METER (SEE SPECIFICATIONS)
- 11. 6" DIP PIPING
- 12. 6"x3" DIP FL REDUCER
- 13. POLYMER MIXING ASSEMBLY
- 14. BELT FILTER PRESS
- 15. 6" DIP FLANGE 90° LONG RADIUS ELBOW
- 16. 3" SCH. 80 PLUG VALVE
- 17. 3" SCH. 80 Y-STRAINER

**GENERAL NOTES**

- 1. CONTRACTOR TO VERIFY EXACT LOCATION OF EQUIPMENT AND PIPING.
- 2. CONTRACTOR SHALL PROVIDE AN ADEQUATE NUMBER OF UNIONS ON SCH 80 PVC TO ALLOW FOR EASE OF PIPING REPLACEMENT.
- 3. PROVIDE PIPE SUPPORTS FOR PLANT PIPING PER MANUFACTURERS RECOMMENDED SPACING REQUIREMENTS. SUPPORTS SHALL BE CONSTRUCTED FROM THE FLOOR, WALL OR CEILING. MAINTAIN DRAINAGE WHEN PIPE SUPPORT INSTALLED NEAR A FLOOR DRAIN. PROVIDE A PIPE SUPPORT PLAN TO ENGINEER.
- 4. PVC PIPE FITTING SHALL UTILIZE BOTH FLANGE AND GLUED CONNECTIONS. ADEQUATE NUMBER OF FLANGES OR UNIONS SHALL BE PROVIDED TO DISASSEMBLE PIPE.



**A1** BELT FILTER PRESS BUILDING - PROCESS PIPING PLAN AND NOTES  
SCALE: 1/4" = 1'

**A6** BELT FILTER PRESS BUILDING - PROCESS PIPING DIMENSIONS AND SECTIONS  
SCALE: 1/4" = 1'

W:\Projects\2060051400\3\_Disciplines\SHEETS\3\_Sheets - process\2060051400\_SLUDGEBLD\_PIPE.dwg

2/14/2025

**WILSON & COMPANY**  
 1700 EAST IRON AVE.  
 SALINA, KS 67401  
 PHONE: 785-827-0433  
 FAX: 785-827-5949  
 www.wilsonco.com

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SEAL

**CHISHOLM CREEK UTILITY AUTHORITY  
 WASTEWATER TREATMENT FACILITY IMPROVEMENTS**

PROJECT NAME

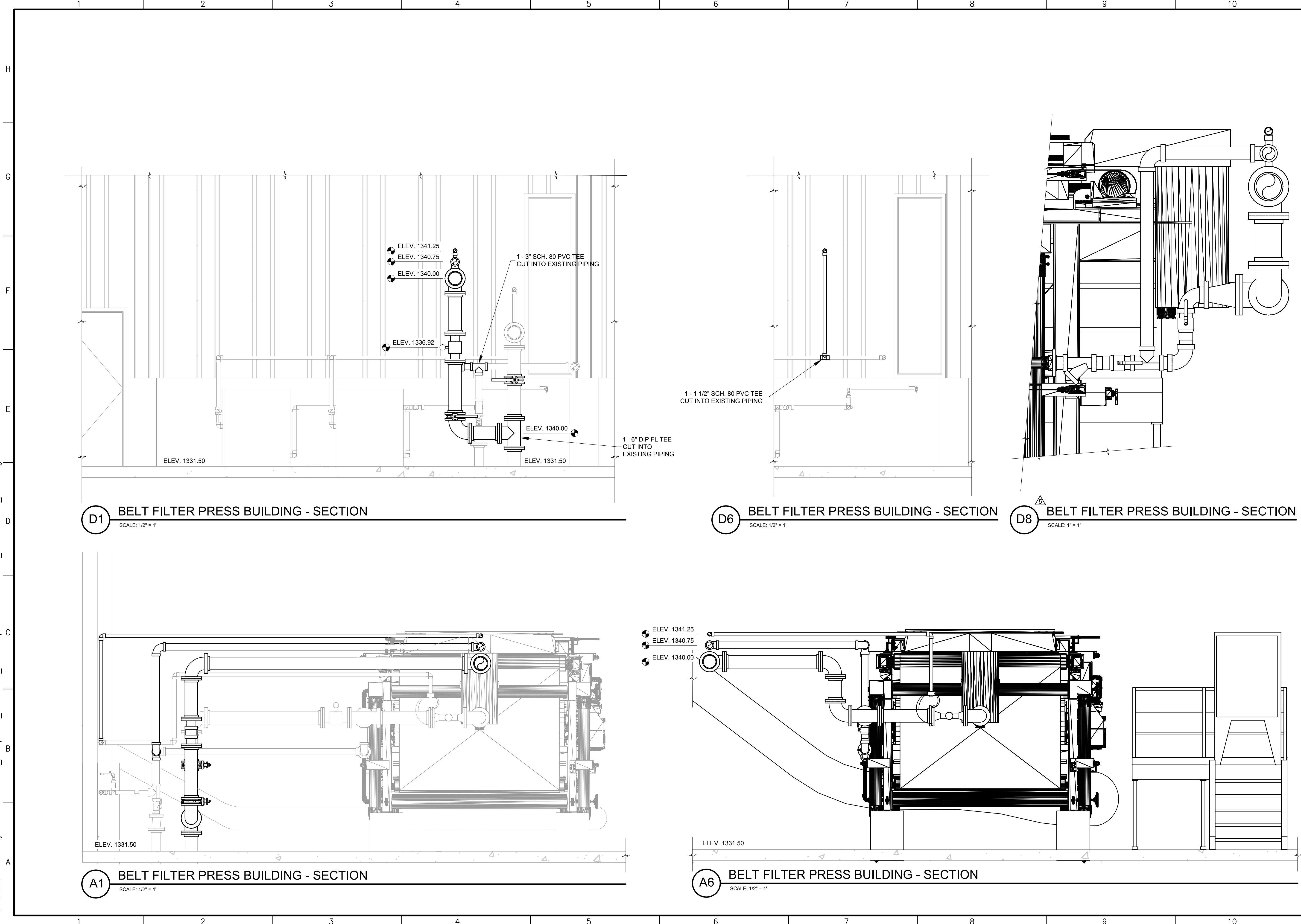
REV.	DATE	DESCRIPTION	BY
5	2/14/25	ADDENDUM #3	CJW
1	11/25/24	KDHE COMMENTS/REVISIONS	BR

PROJECT NO: 2060051400  
 DESIGNED BY: CJW  
 DRAWN BY: RKH  
 CHECKED BY: BPS  
 DATE: MARCH 2021

SHEET TITLE  
**SLUDGE STORAGE AND BELT PRESS BUILDING PROCESS PIPING PLAN**

SHEET NO:  
**D-124**

2/14/2025 W:\Projects\2060051400\3\_Disciplines\3\_Sheets - process\2060051400\_SLUDGE\_BLD\_PIPE.dwg



**D1** BELT FILTER PRESS BUILDING - SECTION  
SCALE: 1/2" = 1'

**D6** BELT FILTER PRESS BUILDING - SECTION  
SCALE: 1/2" = 1'

**D8** BELT FILTER PRESS BUILDING - SECTION  
SCALE: 1" = 1'

**A1** BELT FILTER PRESS BUILDING - SECTION  
SCALE: 1/2" = 1'

**A6** BELT FILTER PRESS BUILDING - SECTION  
SCALE: 1/2" = 1'

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CHISHOLM CREEK UTILITY  
AUTHORITY  
WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS

REV.	DATE	DESCRIPTION	CJW	BY
5	2/14/25			

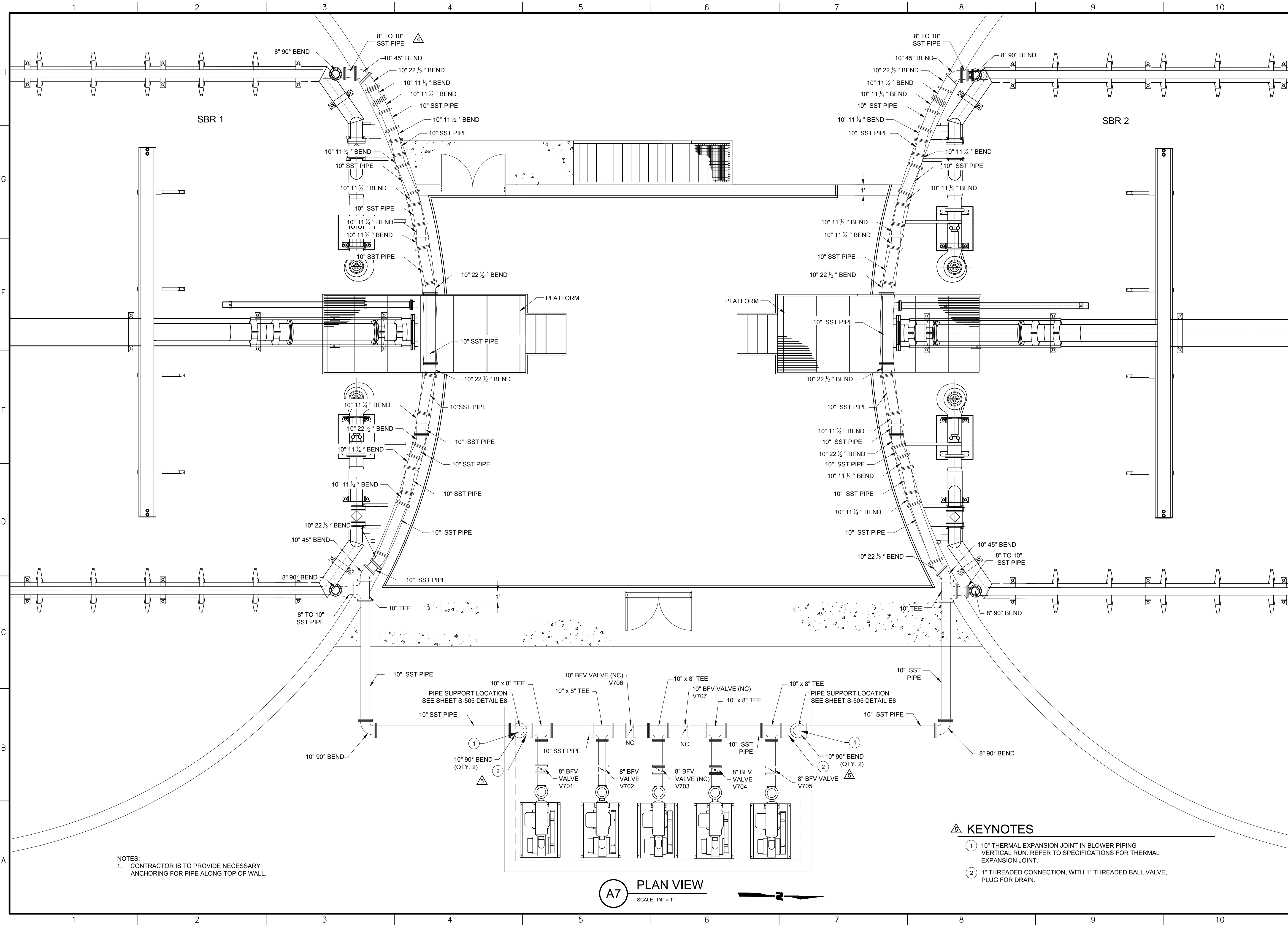
PROJECT NO: 2060051400  
DESIGNED BY: CJW  
DRAWN BY: RKH  
CHECKED BY: BPS  
DATE: MARCH 2021

SHEET TITLE  
**SLUDGE STORAGE  
AND BELT PRESS  
BUILDING SECTIONS**

SHEET NO:  
**D-316**

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2/14/2025

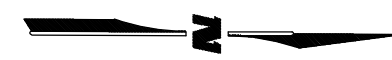


NOTES:  
1. CONTRACTOR IS TO PROVIDE NECESSARY ANCHORING FOR PIPE ALONG TOP OF WALL.

**KEYNOTES**

- ① 10" THERMAL EXPANSION JOINT IN BLOWER PIPING VERTICAL RUN. REFER TO SPECIFICATIONS FOR THERMAL EXPANSION JOINT.
- ② 1" THREADED CONNECTION, WITH 1" THREADED BALL VALVE, PLUG FOR DRAIN.

**A7** PLAN VIEW  
SCALE: 1/4" = 1'



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PROJECT NAME  
**CHISHOLM CREEK UTILITY AUTHORITY WASTEWATER TREATMENT FACILITY IMPROVEMENTS**

REV.	DATE	DESCRIPTION	BY
5	2/14/25	ADDENDUM #3	CJW
4	2/06/25	ADDENDUM #2	CJW

PROJECT NO: 2060051400  
DESIGNED BY: JAD  
DRAWN BY: JAD  
CHECKED BY: BPS  
DATE: OCTOBER 2024

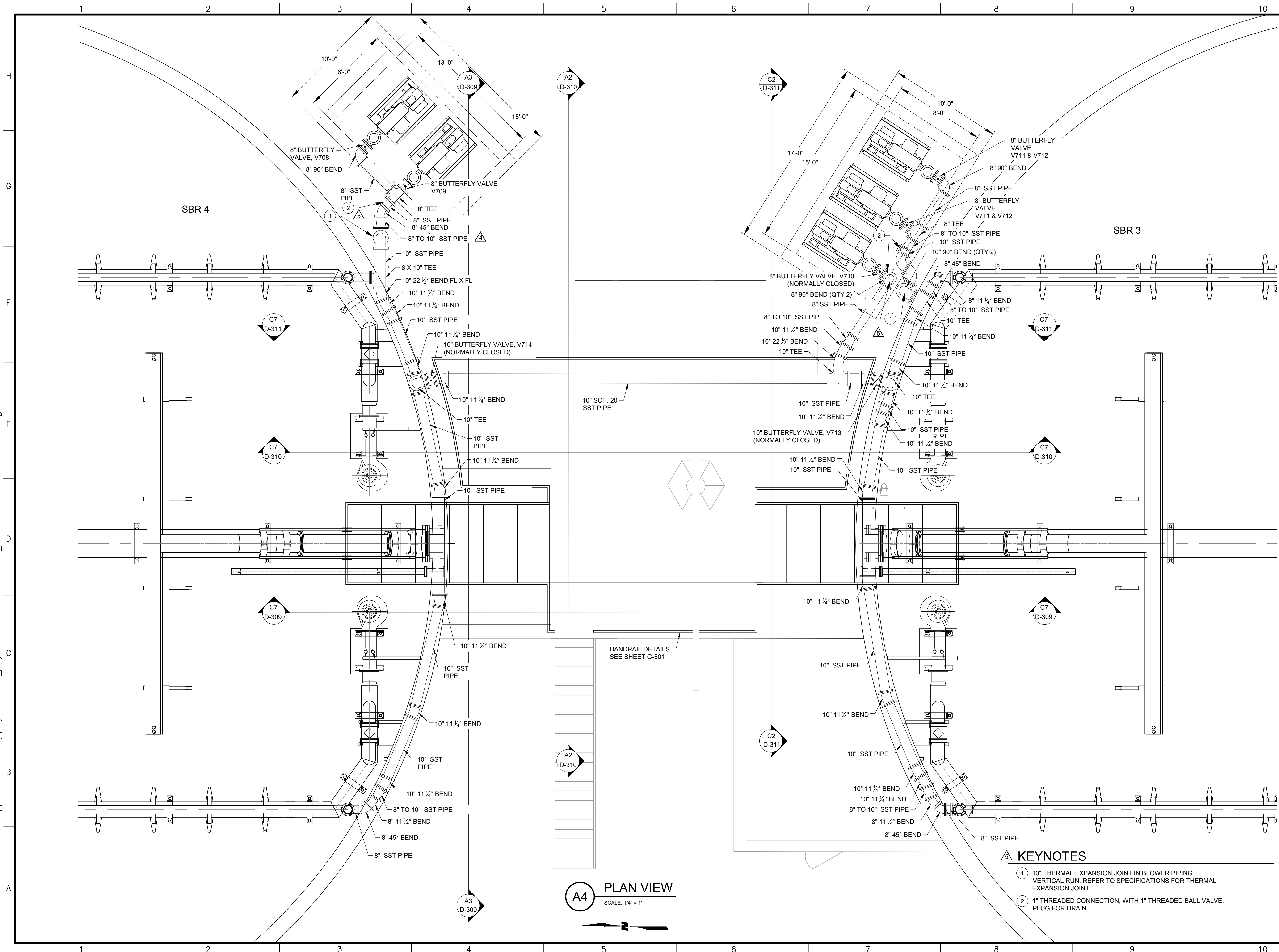
SHEET TITLE  
**SBR 1&2 BUILDING ROOF PLAN**

SHEET NO:  
**D-104**



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2/14/2025



**A4** PLAN VIEW  
SCALE: 1/4" = 1'  
N

- KEYNOTES**
- 1 10" THERMAL EXPANSION JOINT IN BLOWER PIPING. VERTICAL RUN. REFER TO SPECIFICATIONS FOR THERMAL EXPANSION JOINT.
  - 2 1" THREADED CONNECTION, WITH 1" THREADED BALL VALVE, PLUG FOR DRAIN.

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PROJECT NAME  
**CHISHOLM CREEK UTILITY  
AUTHORITY  
WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS**

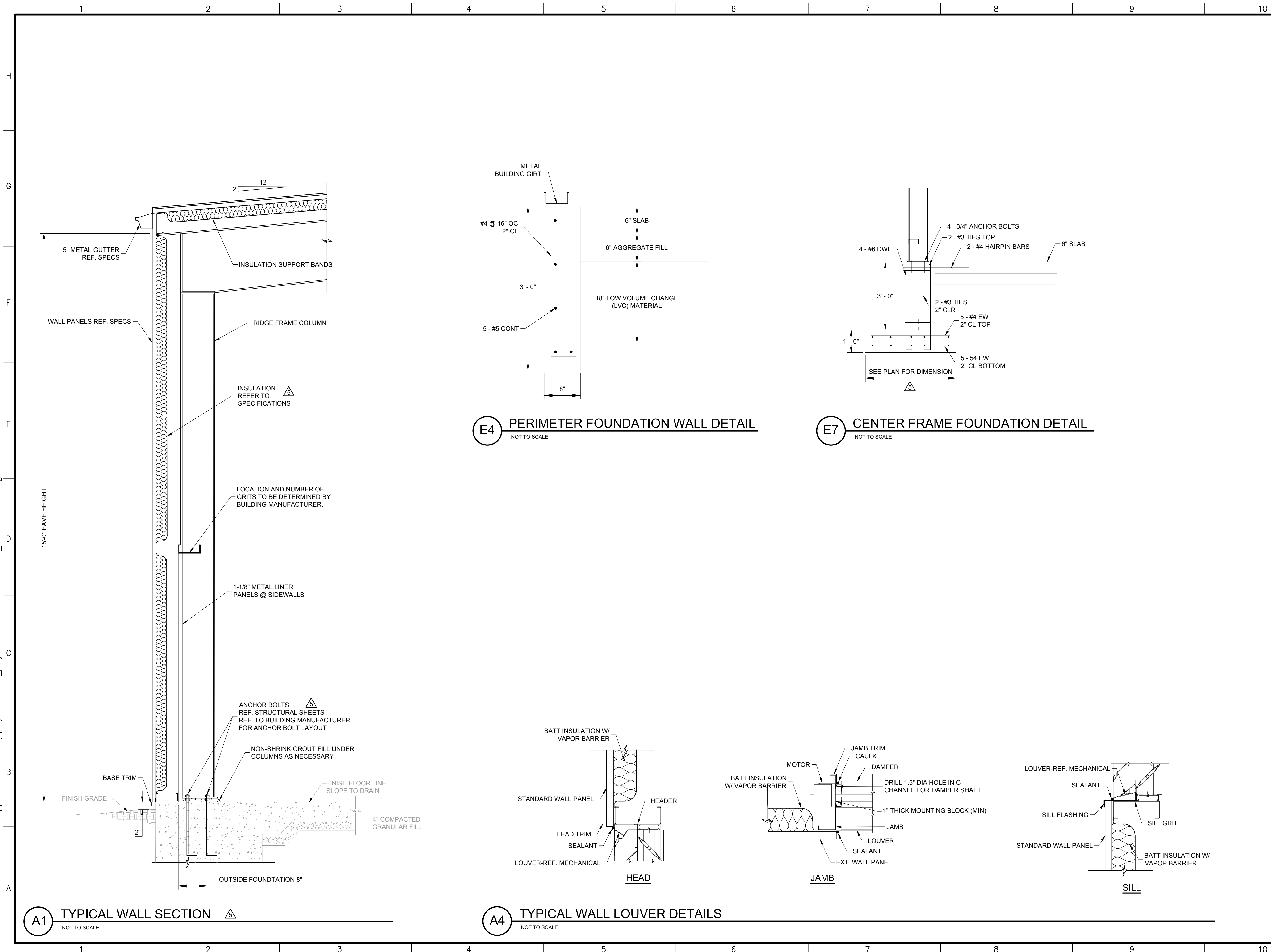
REV.	DATE	DESCRIPTION	BY
5	2/14/25	ADDENDUM #3	CJW
4	2/06/25	ADDENDUM #2	CJW

PROJECT NO: 2060051400  
DESIGNED BY: HKB  
DRAWN BY: HKB  
CHECKED BY: BPS  
DATE: OCTOBER 2024

SHEET TITLE  
**SBR 3&4 BUILDING  
ROOF PLAN**

SHEET NO:  
**D-110**

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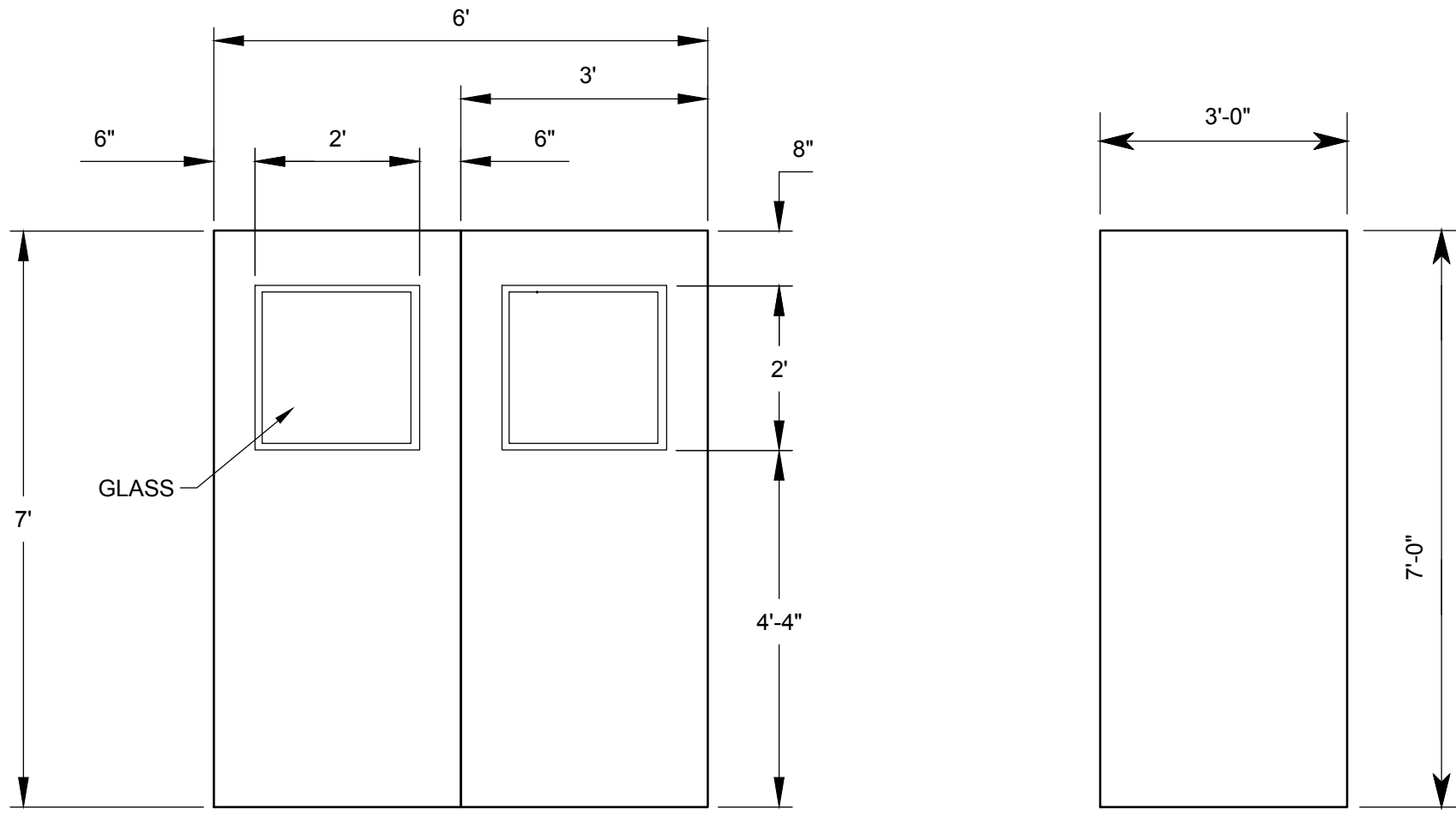
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AUTHORITY  
WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS**

REV.	DATE	ADDENDUM #3	BY
5	2/14/25		

PROJECT NO: 2060051400  
DESIGNED BY: HKB  
DRAWN BY: HKB  
CHECKED BY: BPS  
DATE: OCTOBER 2024  
SHEET TITLE  
**UV & FILTER  
BUILDING SECTION  
& DETAILS**

SHEET NO:  
**A-501**

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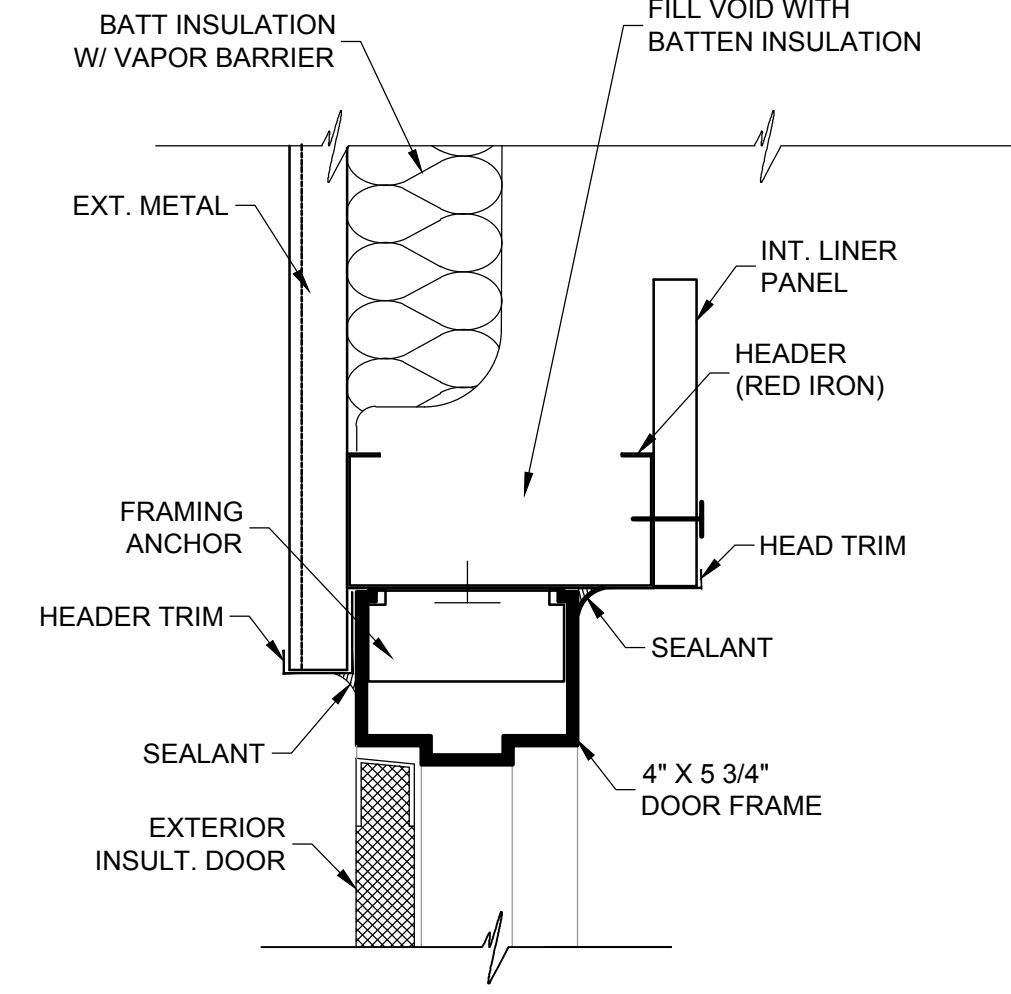


**F2 DOOR TYPE**  
NOT TO SCALE

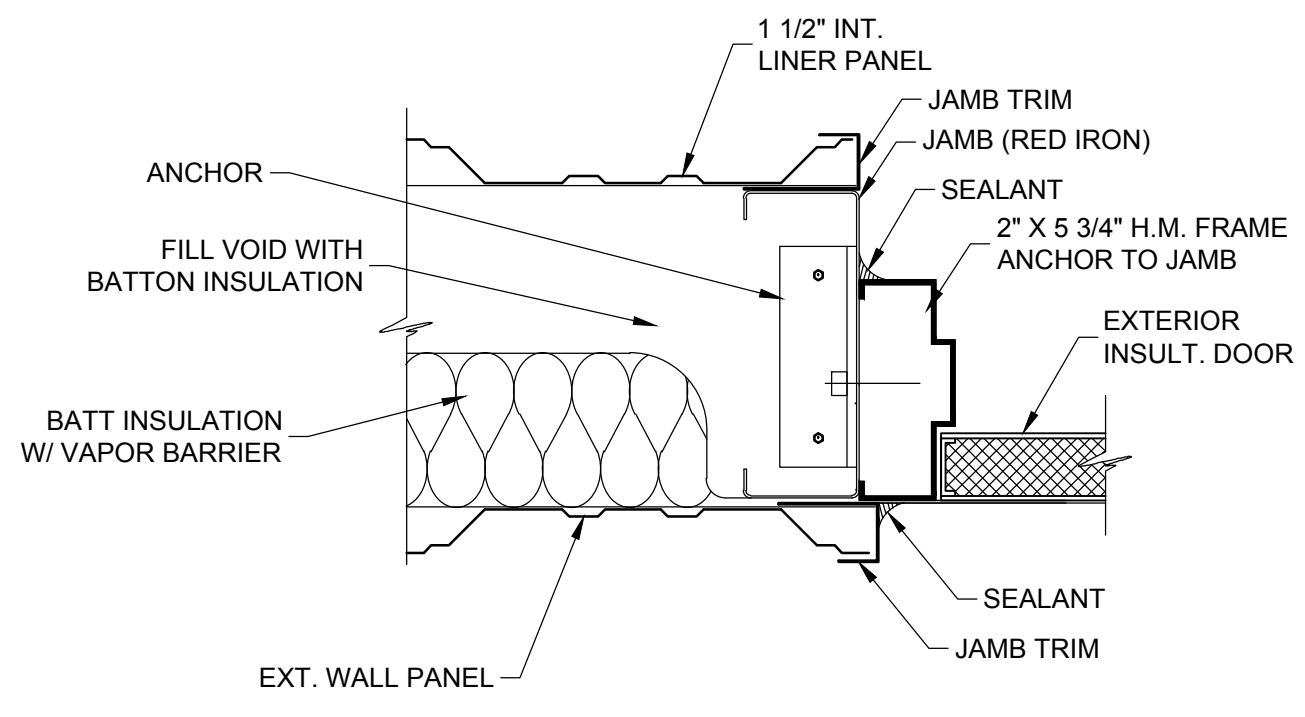
DOOR NUMBER	DOOR SIZE	DOOR					FRAME					LABEL	REMARKS
		TYPE	MTL	FINISH	GLASS	MTL	FINISH	DEPTH	HEAD	JAMB	SILL		
101	PR 3'-0" X 7'-0" X 1 3/4"	A	HM	PAINT	1/2" INSUL	HM	PAINT	5 3/4"	C1	C4	C6		HANDING: LEFT HAND REVERSE
102	PR 3'-0" X 7'-0" X 1 3/4"	A	HM	PAINT	1/2" INSUL	HM	PAINT	5 3/4"	C1	C4	C6		HANDING: LEFT HAND REVERSE
103	3'-0" X 7'-0" X 1 3/4"	B	HM	PAINT		HM	PAINT	5 3/4"	A1	A4	A6		
104	PR 3'-0" X 7'-0" X 1 3/4"	A	HM	PAINT	1/2" INSUL	HM	PAINT	5 3/4"	C8	A8	C6		HANDING: LEFT HAND REVERSE
105	PR 3'-0" X 7'-0" X 1 3/4"	A	HM	PAINT	1/2" INSUL	HM	PAINT	5 3/4"	C8	A8	C6		HANDING: LEFT HAND REVERSE
106	PR 3'-0" X 7'-0" X 1 3/4"	A	HM	PAINT	3/4" INSUL	HM	PAINT	5 3/4"	C8	A8	C6		HANDING: LEFT HAND REVERSE

**G7 DOOR SCHEDULE**  
NOT TO SCALE

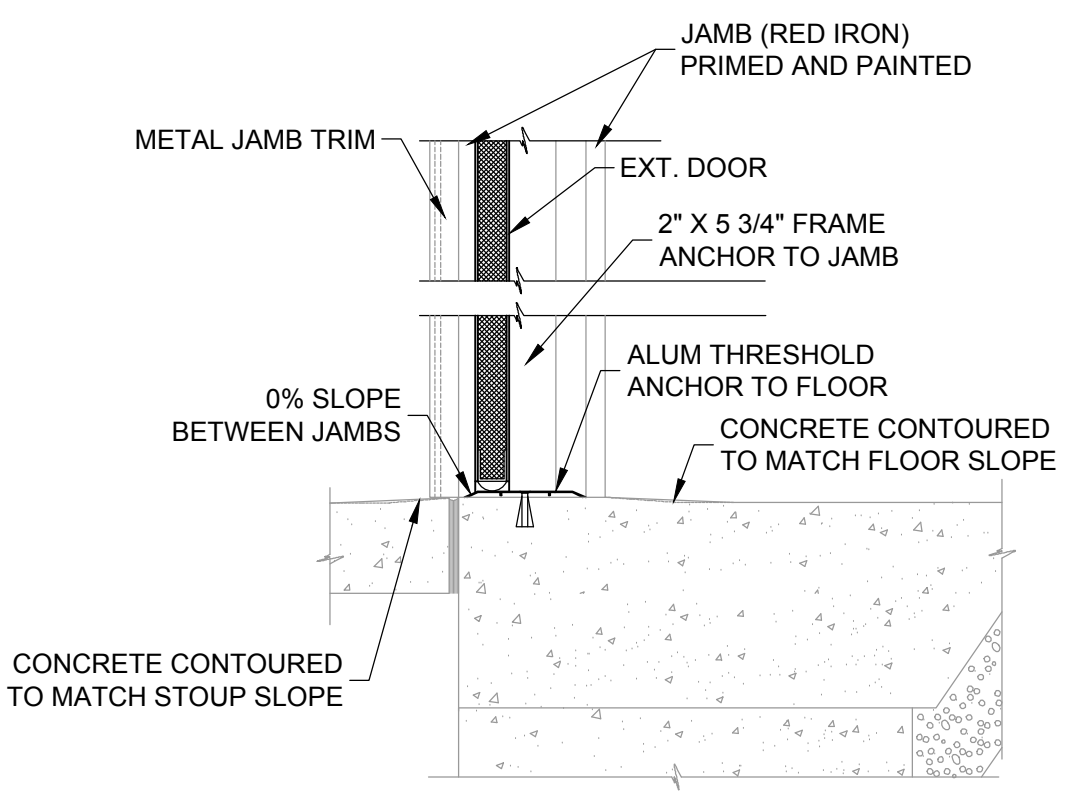
NOTE:  
1. SEE SHEETS A-101, S-101, S-303 & S-105 (PROPOSED CHEMICAL FEED ROOM) FOR DOOR LOCATIONS.



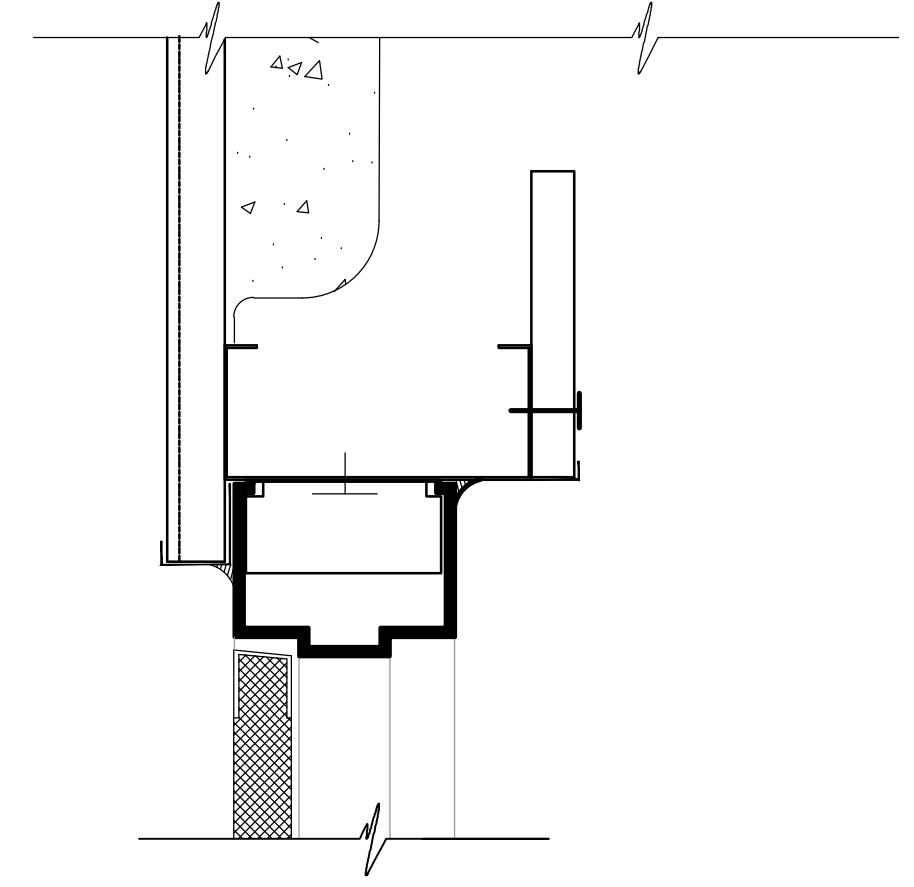
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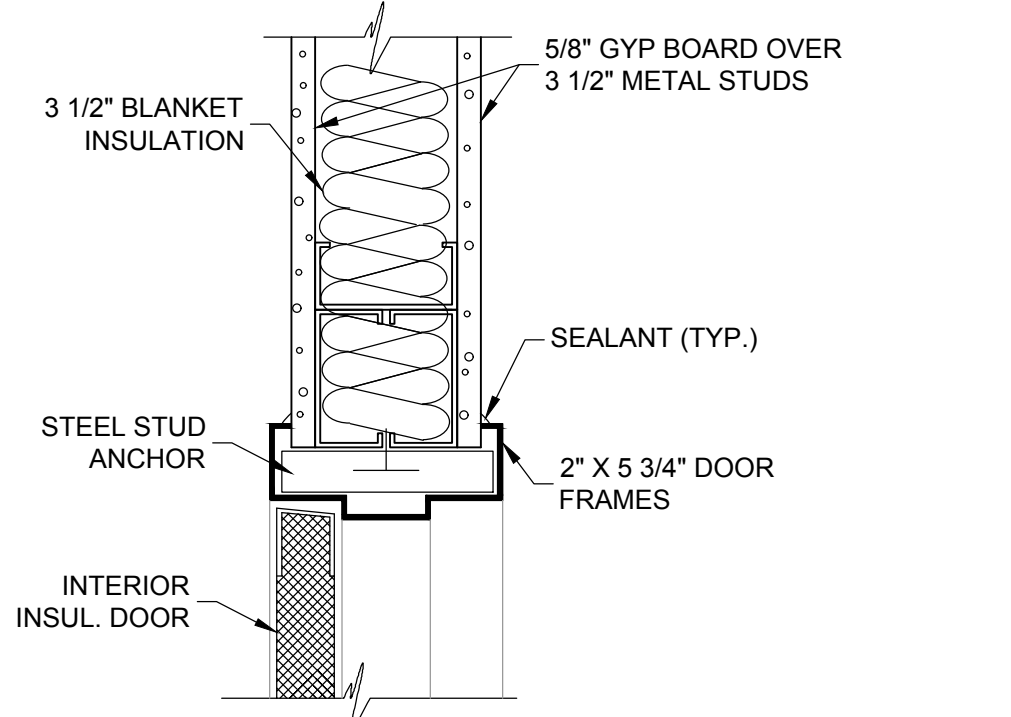
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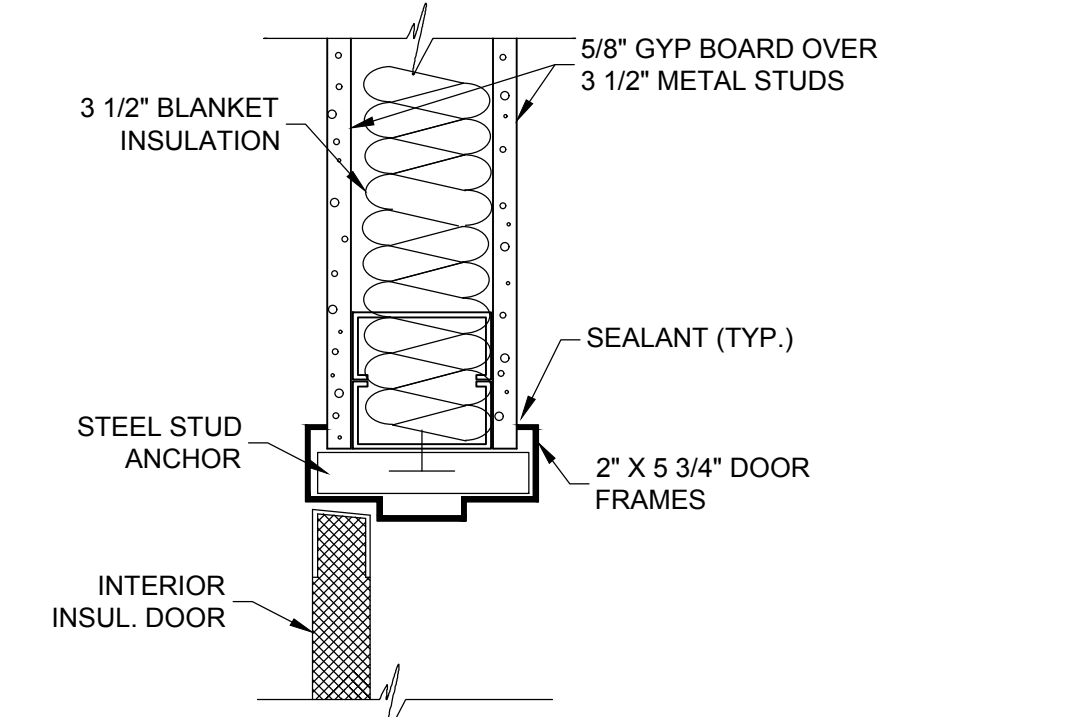
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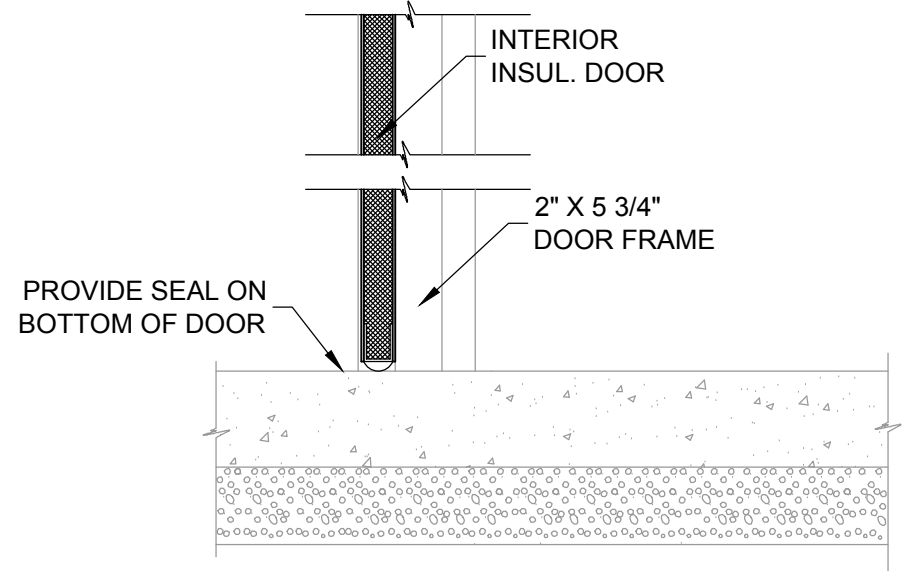
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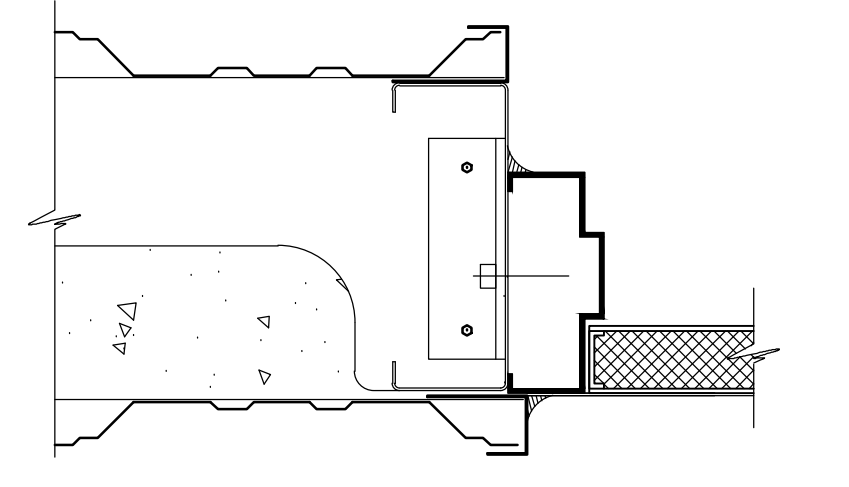
**A1 HEAD DETAIL**  
NOT TO SCALE



**A4 JAMB DETAIL**  
NOT TO SCALE



**A6 SILL DETAIL**  
NOT TO SCALE



**A8 JAMB DETAIL**  
NOT TO SCALE

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PROJECT NAME  
**CHISHOLM CREEK UTILITY AUTHORITY WASTEWATER TREATMENT FACILITY IMPROVEMENTS**

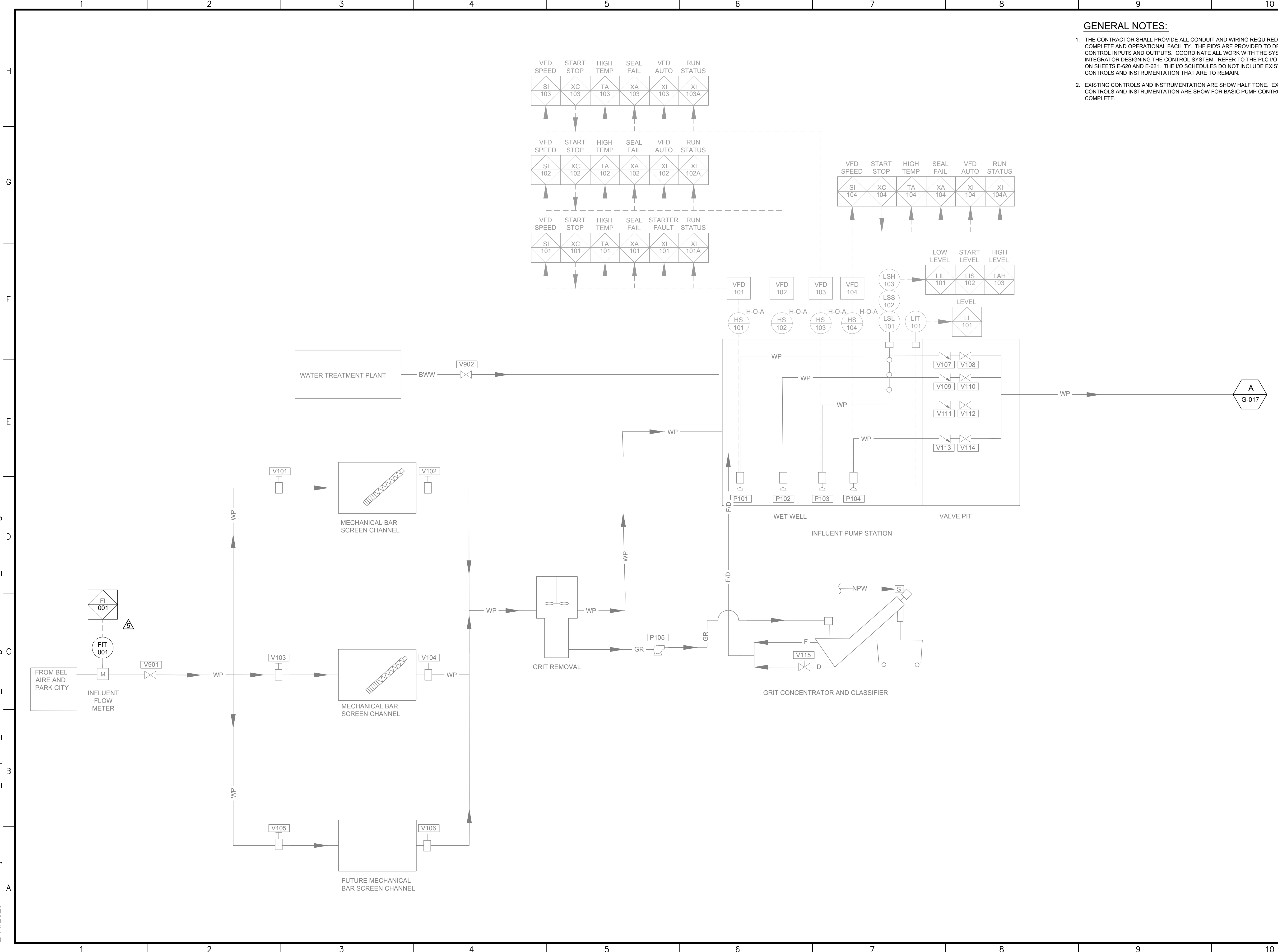
REV.	DATE	DESCRIPTION	CJW	BY
5	2/14/25	ADDENDUM #3		

PROJECT NO: 2060051400  
DESIGNED BY: HKB  
DRAWN BY: HKB  
CHECKED BY: BPS  
DATE: OCTOBER 2024

SHEET TITLE  
**DOOR DETAILS**

SHEET NO:  
**A-502**

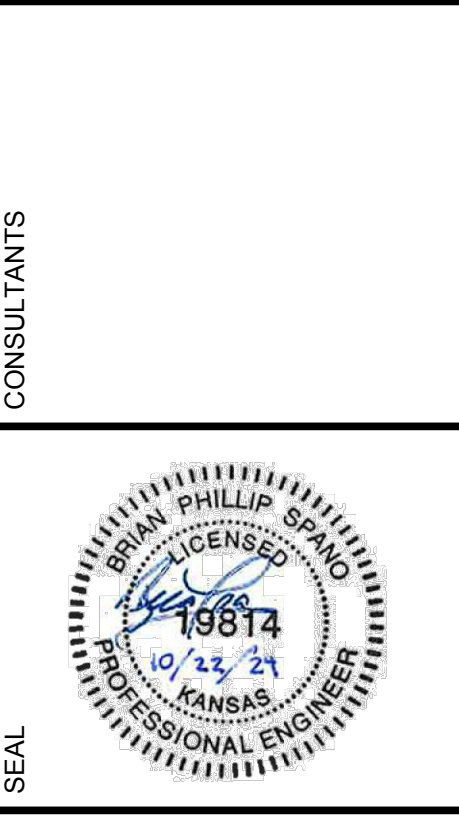
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**GENERAL NOTES:**

1. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL FACILITY. THE PIDS ARE PROVIDED TO DEMONSTRATE CONTROL INPUTS AND OUTPUTS. COORDINATE ALL WORK WITH THE SYSTEMS INTEGRATOR DESIGNING THE CONTROL SYSTEM. REFER TO THE PLC I/O SCHEDULES ON SHEETS E-620 AND E-621. THE I/O SCHEDULES DO NOT INCLUDE EXISTING CONTROLS AND INSTRUMENTATION THAT ARE TO REMAIN.
2. EXISTING CONTROLS AND INSTRUMENTATION ARE SHOWN HALF TONE. EXISTING CONTROLS AND INSTRUMENTATION ARE SHOWN FOR BASIC PUMP CONTROL AND IS NOT COMPLETE.

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**CHISHOLM CREEK UTILITY AUTHORITY  
 WASTEWATER TREATMENT FACILITY IMPROVEMENTS**

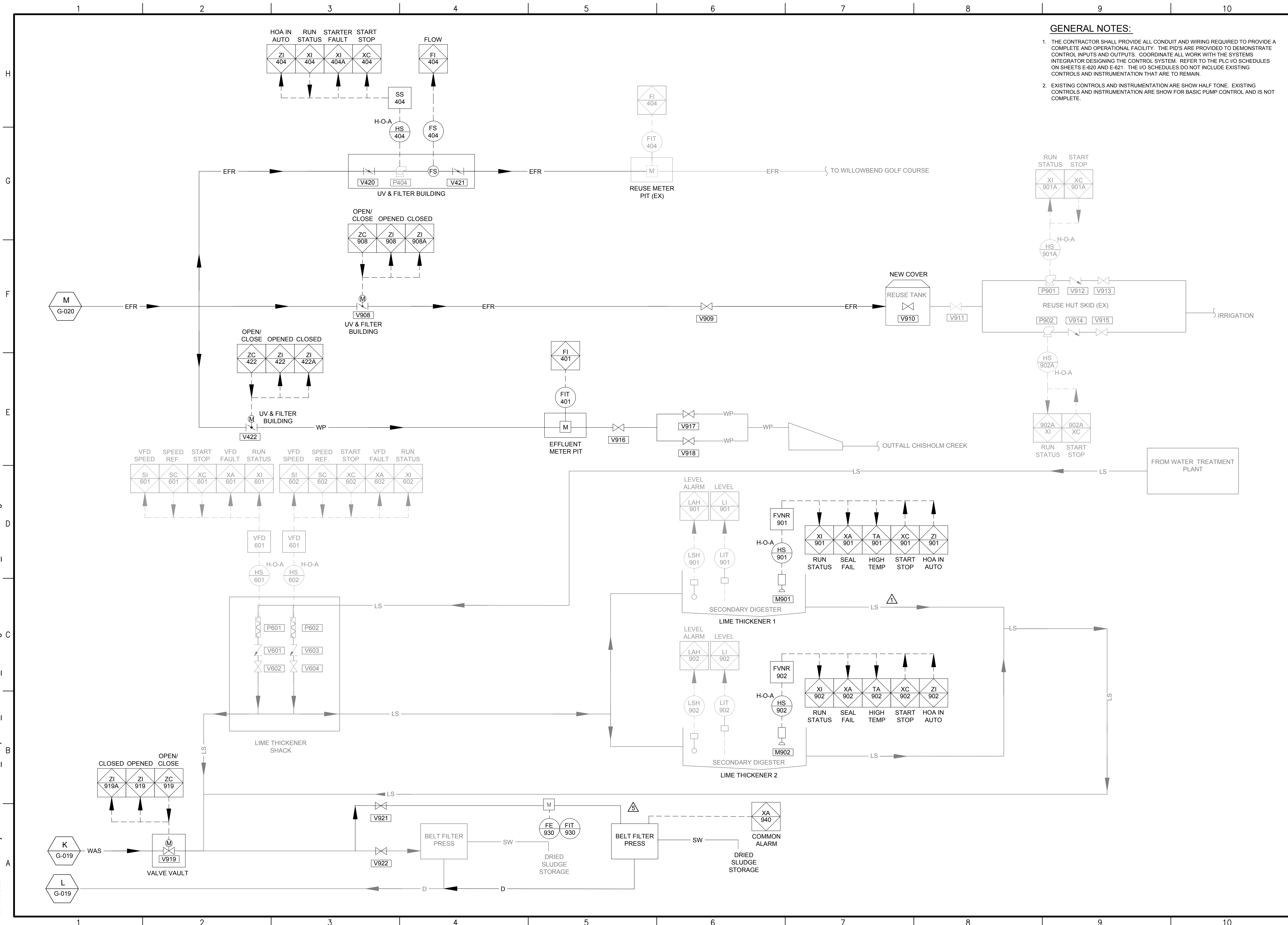
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5	2/14/25	ADDENDUM #3		

PROJECT NO: 2060051400  
 DESIGNED BY: JAD  
 DRAWN BY: JAD  
 CHECKED BY: BPS  
 DATE: MARCH 2021

SHEET TITLE  
**PROCESS & INSTRUMENTATION DIAGRAM**

SHEET NO:  
**G-016**

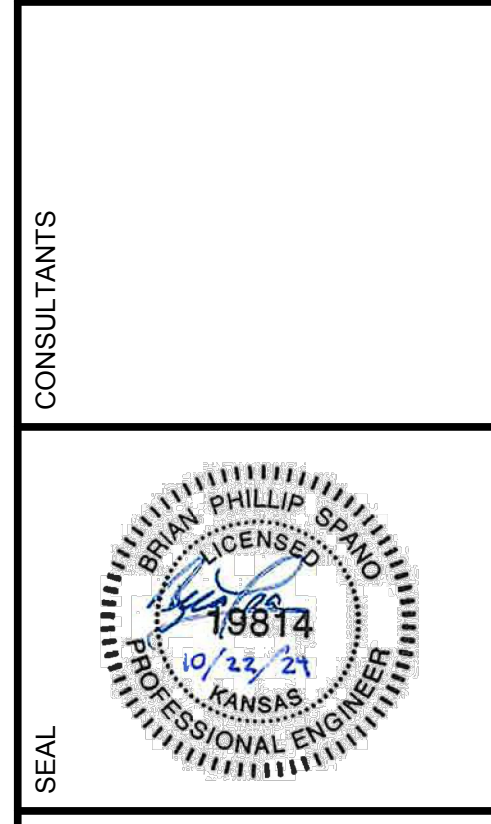
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**GENERAL NOTES:**

- THE CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL FACILITY. THE PID'S ARE PROVIDED TO DEMONSTRATE CONTROL INPUTS AND OUTPUTS. COORDINATE ALL WORK WITH THE SYSTEMS INTEGRATOR DESIGNING THE CONTROL SYSTEM. REFER TO THE PLC I/O SCHEDULES ON SHEETS E-620 AND E-621. THE I/O SCHEDULES DO NOT INCLUDE EXISTING CONTROLS AND INSTRUMENTATION THAT ARE TO REMAIN.
- EXISTING CONTROLS AND INSTRUMENTATION ARE SHOWN HALF TONE. EXISTING CONTROLS AND INSTRUMENTATION ARE SHOWN FOR BASIC PUMP CONTROL AND IS NOT COMPLETE.

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**WASTEWATER TREATMENT FACILITY IMPROVEMENTS**

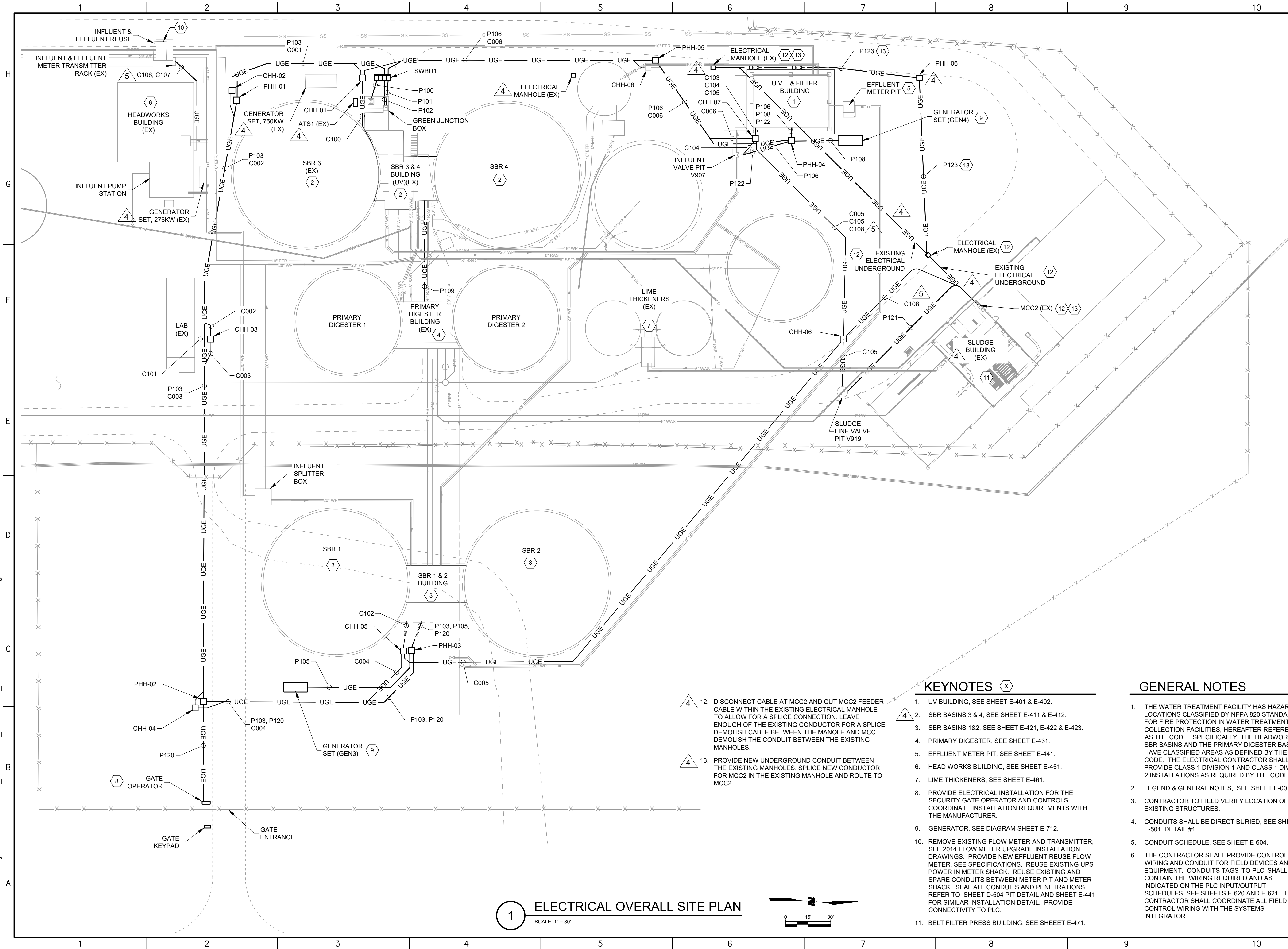
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5	2/14/25	ADDENDUM #3	CJW
1	1/03/25	KDHE COMMENTS/REVISIONS	CJW

PROJECT NO: 2060051400  
 DESIGNED BY: JAD  
 DRAWN BY: JAD  
 CHECKED BY: BPS  
 DATE: MARCH 2021

SHEET TITLE  
**PROCESS & INSTRUMENTATION DIAGRAM**

SHEET NO:  
**G-021**

2/13/2025 W:\Projects\2060051400\3\_Disciplines\1\_SHEETS\6\_sheets - electrical\E-002.dwg

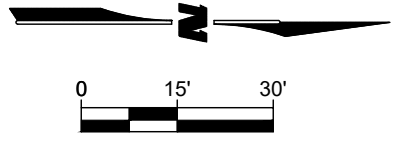


- KEYNOTES**
- 4 12. DISCONNECT CABLE AT MCC2 AND CUT MCC2 FEEDER CABLE WITHIN THE EXISTING ELECTRICAL MANHOLE TO ALLOW FOR A SPLICE CONNECTION. LEAVE ENOUGH OF THE EXISTING CONDUCTOR FOR A SPLICE. DEMOLISH CABLE BETWEEN THE MANOLE AND MCC. DEMOLISH THE CONDUIT BETWEEN THE EXISTING MANHOLES.
  - 4 13. PROVIDE NEW UNDERGROUND CONDUIT BETWEEN THE EXISTING MANHOLES. SPLICE NEW CONDUCTOR FOR MCC2 IN THE EXISTING MANHOLE AND ROUTE TO MCC2.

- KEYNOTES**
- 1. UV BUILDING, SEE SHEET E-401 & E-402.
  - 2. SBR BASINS 3 & 4, SEE SHEET E-411 & E-412.
  - 3. SBR BASINS 1&2, SEE SHEET E-421, E-422 & E-423.
  - 4. PRIMARY DIGESTER, SEE SHEET E-431.
  - 5. EFFLUENT METER PIT, SEE SHEET E-441.
  - 6. HEAD WORKS BUILDING, SEE SHEET E-451.
  - 7. LIME THICKENERS, SEE SHEET E-461.
  - 8. PROVIDE ELECTRICAL INSTALLATION FOR THE SECURITY GATE OPERATOR AND CONTROLS. COORDINATE INSTALLATION REQUIREMENTS WITH THE MANUFACTURER.
  - 9. GENERATOR, SEE DIAGRAM SHEET E-712.
  - 10. REMOVE EXISTING FLOW METER AND TRANSMITTER, SEE 2014 FLOW METER UPGRADE INSTALLATION DRAWINGS. PROVIDE NEW EFFLUENT REUSE FLOW METER, SEE SPECIFICATIONS. REUSE EXISTING UPS POWER IN METER SHACK. REUSE EXISTING AND SPARE CONDUITS BETWEEN METER PIT AND METER SHACK. SEAL ALL CONDUITS AND PENETRATIONS. REFER TO SHEET D-504 PIT DETAIL AND SHEET E-441 FOR SIMILAR INSTALLATION DETAIL. PROVIDE CONNECTIVITY TO PLC.
  - 11. BELT FILTER PRESS BUILDING, SEE SHEET E-471.

- GENERAL NOTES**
1. THE WATER TREATMENT FACILITY HAS HAZARDOUS LOCATIONS CLASSIFIED BY NFPA 820 STANDARD FOR FIRE PROTECTION IN WATER TREATMENT AND COLLECTION FACILITIES, HEREAFTER REFERRED TO AS THE CODE. SPECIFICALLY, THE HEADWORKS, SBR BASINS AND THE PRIMARY DIGESTER BASINS HAVE CLASSIFIED AREAS AS DEFINED BY THE CODE. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CLASS 1 DIVISION 1 AND CLASS 1 DIVISION 2 INSTALLATIONS AS REQUIRED BY THE CODE.
  2. LEGEND & GENERAL NOTES, SEE SHEET E-001.
  3. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING STRUCTURES.
  4. CONDUITS SHALL BE DIRECT BURIED, SEE SHEET E-501, DETAIL #1.
  5. CONDUIT SCHEDULE, SEE SHEET E-604.
  6. THE CONTRACTOR SHALL PROVIDE CONTROL WIRING AND CONDUIT FOR FIELD DEVICES AND EQUIPMENT. CONDUITS TAGS TO PLC SHALL CONTAIN THE WIRING REQUIRED AND AS INDICATED ON THE PLC INPUT/OUTPUT SCHEDULES, SEE SHEETS E-620 AND E-621. THE CONTRACTOR SHALL COORDINATE ALL FIELD CONTROL WIRING WITH THE SYSTEMS INTEGRATOR.

**1 ELECTRICAL OVERALL SITE PLAN**  
SCALE: 1" = 30'



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CONSULTANTS

SEAL

PROJECT NAME

**CHISHOLM CREEK UTILITY  
AUTHORITY  
WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS**

REV.	DATE	DESCRIPTION	BY
5	02/14/25	ISSUED FOR ADDENDUM 3	MWW
4	02/07/25	ISSUED FOR ADDENDUM 2	MWW

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PROJECT NO: 2060051400

DESIGNED BY: BJD

DRAWN BY: SRB

CHECKED BY: BJD

DATE: MARCH 2021

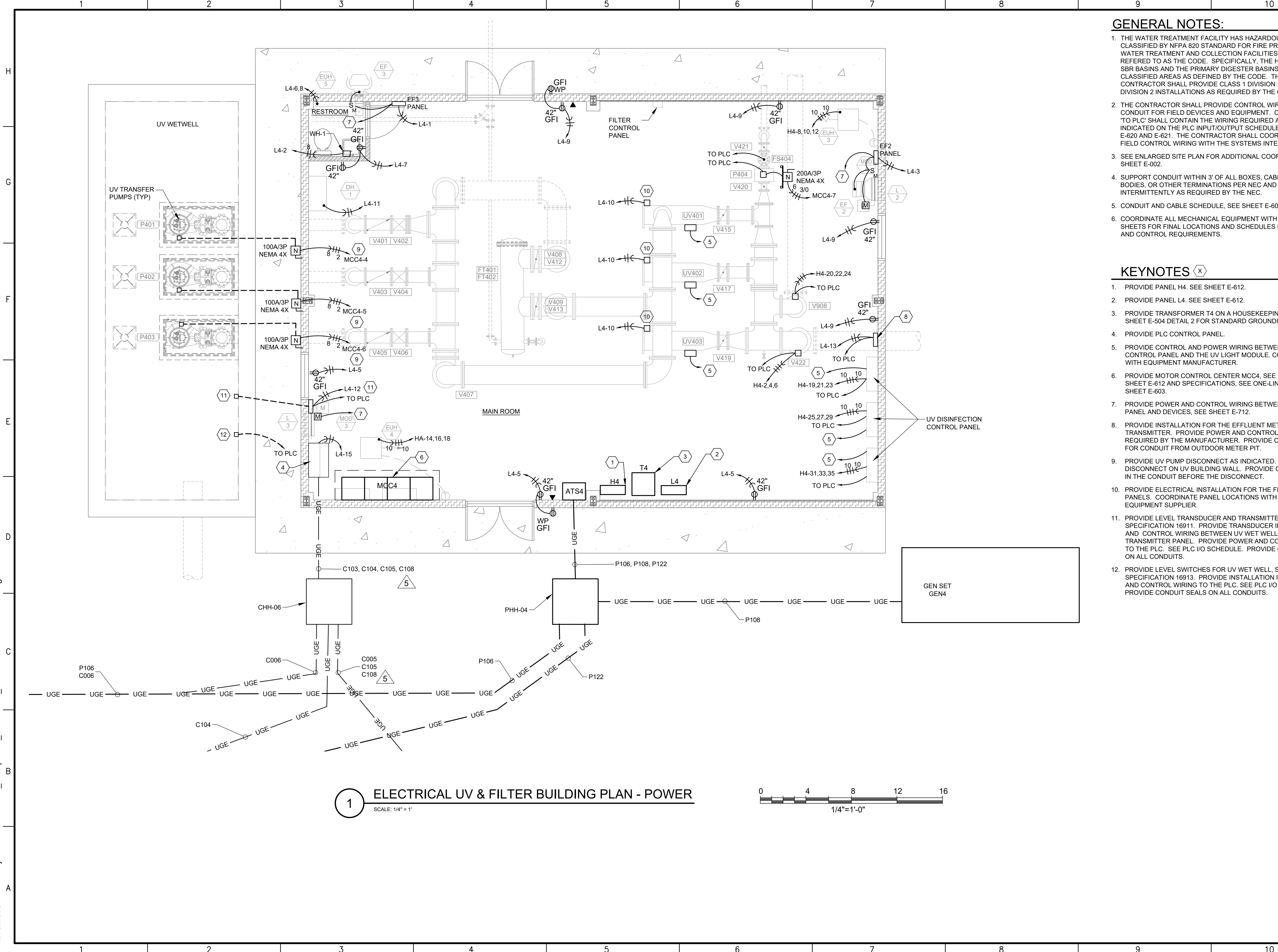
SHEET TITLE

**ELECTRICAL  
OVERALL SITE PLAN**

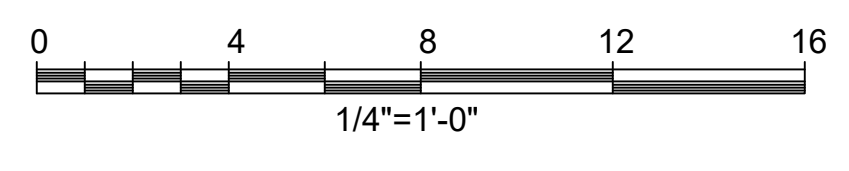
SHEET NO:

**E-002**

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**1** ELECTRICAL UV & FILTER BUILDING PLAN - POWER  
SCALE: 1/4" = 1'



**GENERAL NOTES:**

1. THE WATER TREATMENT FACILITY HAS HAZARDOUS LOCATIONS CLASSIFIED BY NFPA 820 STANDARD FOR FIRE PROTECTION IN WATER TREATMENT AND COLLECTION FACILITIES. HEREAFTER REFERRED TO AS THE CODE. SPECIFICALLY, THE HEADWORKS, SBR BASINS AND THE PRIMARY DIGESTER BASINS HAVE CLASSIFIED AREAS AS DEFINED BY THE CODE. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CLASS 1 DIVISION 1 AND CLASS 1 DIVISION 2 INSTALLATIONS AS REQUIRED BY THE CODE.
2. THE CONTRACTOR SHALL PROVIDE CONTROL WIRING AND CONDUIT FOR FIELD DEVICES AND EQUIPMENT. CONDUITS TAGS "TO PLC" SHALL CONTAIN THE WIRING REQUIRED AND AS INDICATED ON THE PLC INPUT/OUTPUT SCHEDULES. SEE SHEETS E-620 AND E-621. THE CONTRACTOR SHALL COORDINATE ALL FIELD CONTROL WIRING WITH THE SYSTEMS INTEGRATOR.
3. SEE ENLARGED SITE PLAN FOR ADDITIONAL COORDINATION SHEET E-002.
4. SUPPORT CONDUIT WITHIN 3' OF ALL BOXES, CABINETS, CONDUIT BODIES, OR OTHER TERMINATIONS PER NEC AND INTERMITTENTLY AS REQUIRED BY THE NEC.
5. CONDUIT AND CABLE SCHEDULE, SEE SHEET E-604.
6. COORDINATE ALL MECHANICAL EQUIPMENT WITH MECHANICAL SHEETS FOR FINAL LOCATIONS AND SCHEDULES FOR POWER AND CONTROL REQUIREMENTS.

**KEYNOTES (X)**

1. PROVIDE PANEL H4. SEE SHEET E-612.
2. PROVIDE PANEL L4. SEE SHEET E-612.
3. PROVIDE TRANSFORMER T4 ON A HOUSEKEEPING PAD. SEE SHEET E-504 DETAIL 2 FOR STANDARD GROUNDING DETAIL.
4. PROVIDE PLC CONTROL PANEL.
5. PROVIDE CONTROL AND POWER WIRING BETWEEN THE UV CONTROL PANEL AND THE UV LIGHT MODULE. COORDINATE WITH EQUIPMENT MANUFACTURER.
6. PROVIDE MOTOR CONTROL CENTER MCC4, SEE SCHEDULE ON SHEET E-612 AND SPECIFICATIONS, SEE ONE-LINE DIAGRAM SHEET E-603.
7. PROVIDE POWER AND CONTROL WIRING BETWEEN EF CONTROL PANEL AND DEVICES, SEE SHEET E-712.
8. PROVIDE INSTALLATION FOR THE EFFLUENT METER REMOTE TRANSMITTER. PROVIDE POWER AND CONTROL WIRING AS REQUIRED BY THE MANUFACTURER. PROVIDE CONDUIT SEAL FOR CONDUIT FROM OUTDOOR METER PIT.
9. PROVIDE UV PUMP DISCONNECT AS INDICATED. MOUNT DISCONNECT ON UV BUILDING WALL. PROVIDE CONDUIT SEAL IN THE CONDUIT BEFORE THE DISCONNECT.
10. PROVIDE ELECTRICAL INSTALLATION FOR THE FILTER FLUSH PANELS. COORDINATE PANEL LOCATIONS WITH THE EQUIPMENT SUPPLIER.
11. PROVIDE LEVEL TRANSDUCER AND TRANSMITTER PANEL, SEE SPECIFICATION 16911. PROVIDE TRANSDUCER INSTALLATION AND CONTROL WIRING BETWEEN UV WET WELL AND TRANSMITTER PANEL. PROVIDE POWER AND CONTROL WIRING TO THE PLC. SEE PLC I/O SCHEDULE. PROVIDE CONDUIT SEALS ON ALL CONDUITS.
12. PROVIDE LEVEL SWITCHES FOR UV WET WELL, SEE SPECIFICATION 16913. PROVIDE INSTALLATION IN WET WELL AND CONTROL WIRING TO THE PLC. SEE PLC I/O SCHEDULE. PROVIDE CONDUIT SEALS ON ALL CONDUITS.

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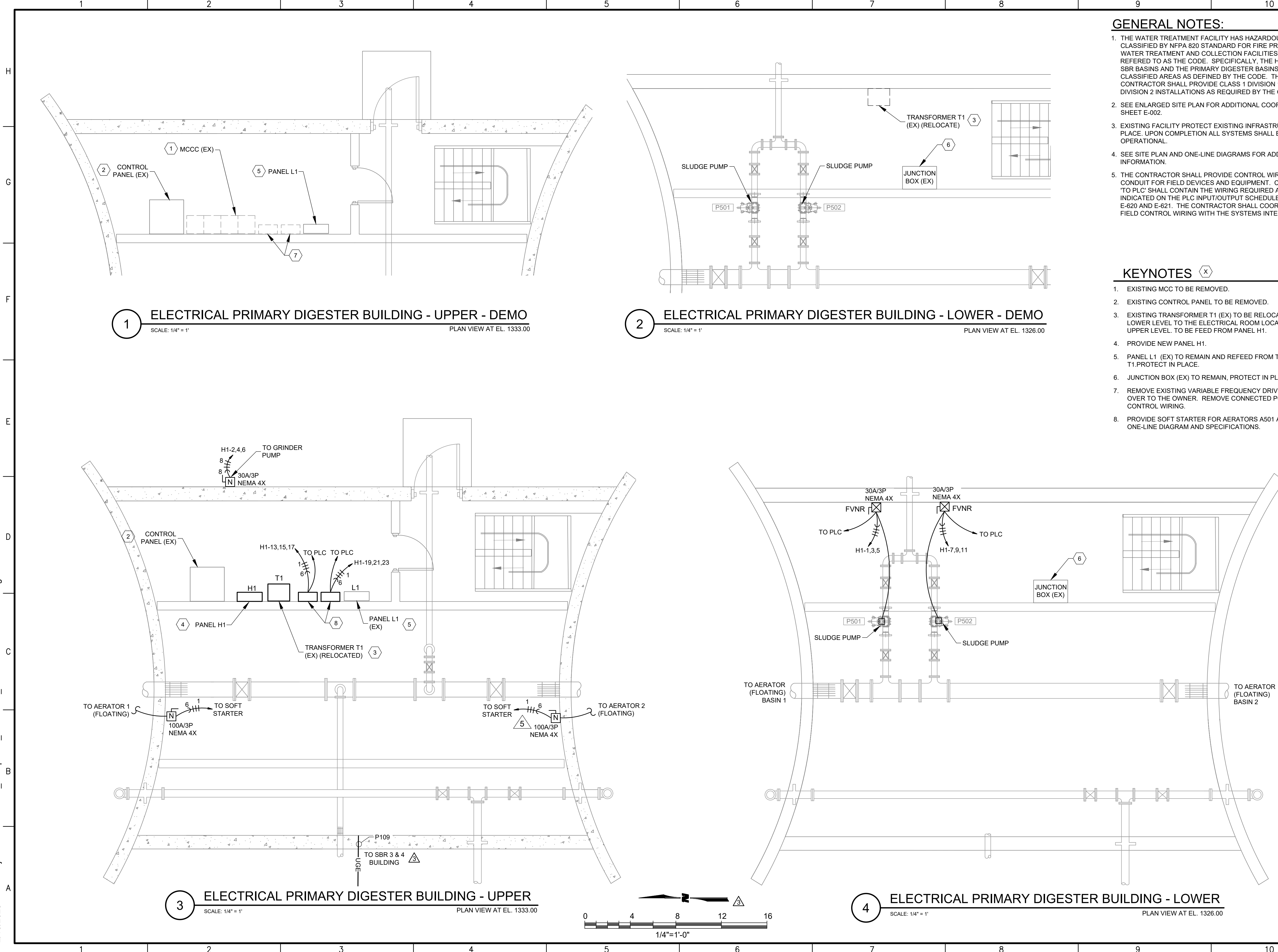
PROJECT NAME  
**CHISHOLM CREEK UTILITY  
AUTHORITY  
WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS**

REV.	DATE	DESCRIPTION	BY
5	02/14/25	ISSUED FOR ADDENDUM 3	MWW

PROJECT NO: 2060051400  
DESIGNED BY: BJD  
DRAWN BY: SRB  
CHECKED BY: BJD  
DATE: MARCH 2021  
SHEET TITLE  
**ELECTRICAL UV &  
FILTER BUILDING  
PLAN - POWER**

SHEET NO:  
**E-401**

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**1** ELECTRICAL PRIMARY DIGESTER BUILDING - UPPER - DEMO  
SCALE: 1/4" = 1'  
PLAN VIEW AT EL. 1333.00

**2** ELECTRICAL PRIMARY DIGESTER BUILDING - LOWER - DEMO  
SCALE: 1/4" = 1'  
PLAN VIEW AT EL. 1326.00

**3** ELECTRICAL PRIMARY DIGESTER BUILDING - UPPER  
SCALE: 1/4" = 1'  
PLAN VIEW AT EL. 1333.00

**4** ELECTRICAL PRIMARY DIGESTER BUILDING - LOWER  
SCALE: 1/4" = 1'  
PLAN VIEW AT EL. 1326.00

**GENERAL NOTES:**

1. THE WATER TREATMENT FACILITY HAS HAZARDOUS LOCATIONS CLASSIFIED BY NFPA 820 STANDARD FOR FIRE PROTECTION IN WATER TREATMENT AND COLLECTION FACILITIES. HEREAFTER REFERRED TO AS THE CODE. SPECIFICALLY, THE HEADWORKS, SBR BASINS AND THE PRIMARY DIGESTER BASINS HAVE CLASSIFIED AREAS AS DEFINED BY THE CODE. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CLASS 1 DIVISION 1 AND CLASS 1 DIVISION 2 INSTALLATIONS AS REQUIRED BY THE CODE.
2. SEE ENLARGED SITE PLAN FOR ADDITIONAL COORDINATION SHEET E-002.
3. EXISTING FACILITY PROTECT EXISTING INFRASTRUCTURE IN PLACE. UPON COMPLETION ALL SYSTEMS SHALL BE OPERATIONAL.
4. SEE SITE PLAN AND ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
5. THE CONTRACTOR SHALL PROVIDE CONTROL WIRING AND CONDUIT FOR FIELD DEVICES AND EQUIPMENT. CONDUITS TAGS TO PLC SHALL CONTAIN THE WIRING REQUIRED AND AS INDICATED ON THE PLC INPUT/OUTPUT SCHEDULES. SEE SHEETS E-620 AND E-621. THE CONTRACTOR SHALL COORDINATE ALL FIELD CONTROL WIRING WITH THE SYSTEMS INTEGRATOR.

**KEYNOTES** (X)

1. EXISTING MCC TO BE REMOVED.
2. EXISTING CONTROL PANEL TO BE REMOVED.
3. EXISTING TRANSFORMER T1 (EX) TO BE RELOCATED FROM LOWER LEVEL TO THE ELECTRICAL ROOM LOCATED IN THE UPPER LEVEL. TO BE FEED FROM PANEL H1.
4. PROVIDE NEW PANEL H1.
5. PANEL L1 (EX) TO REMAIN AND REFEED FROM TRANSFORMER T1. PROTECT IN PLACE.
6. JUNCTION BOX (EX) TO REMAIN, PROTECT IN PLACE.
7. REMOVE EXISTING VARIABLE FREQUENCY DRIVES AND TURN OVER TO THE OWNER. REMOVE CONNECTED POWER AND CONTROL WIRING.
8. PROVIDE SOFT STARTER FOR AERATORS A501 AND A502, SEE ONE-LINE DIAGRAM AND SPECIFICATIONS.

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PROJECT NAME  
**CHISHOLM CREEK UTILITY  
AUTHORITY  
WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS**

REV.	DATE	DESCRIPTION	BY
5	02/14/25	ISSUED FOR ADDENDUM 3	MWV
3	1/28/25	ADDENDUM #1	CJW

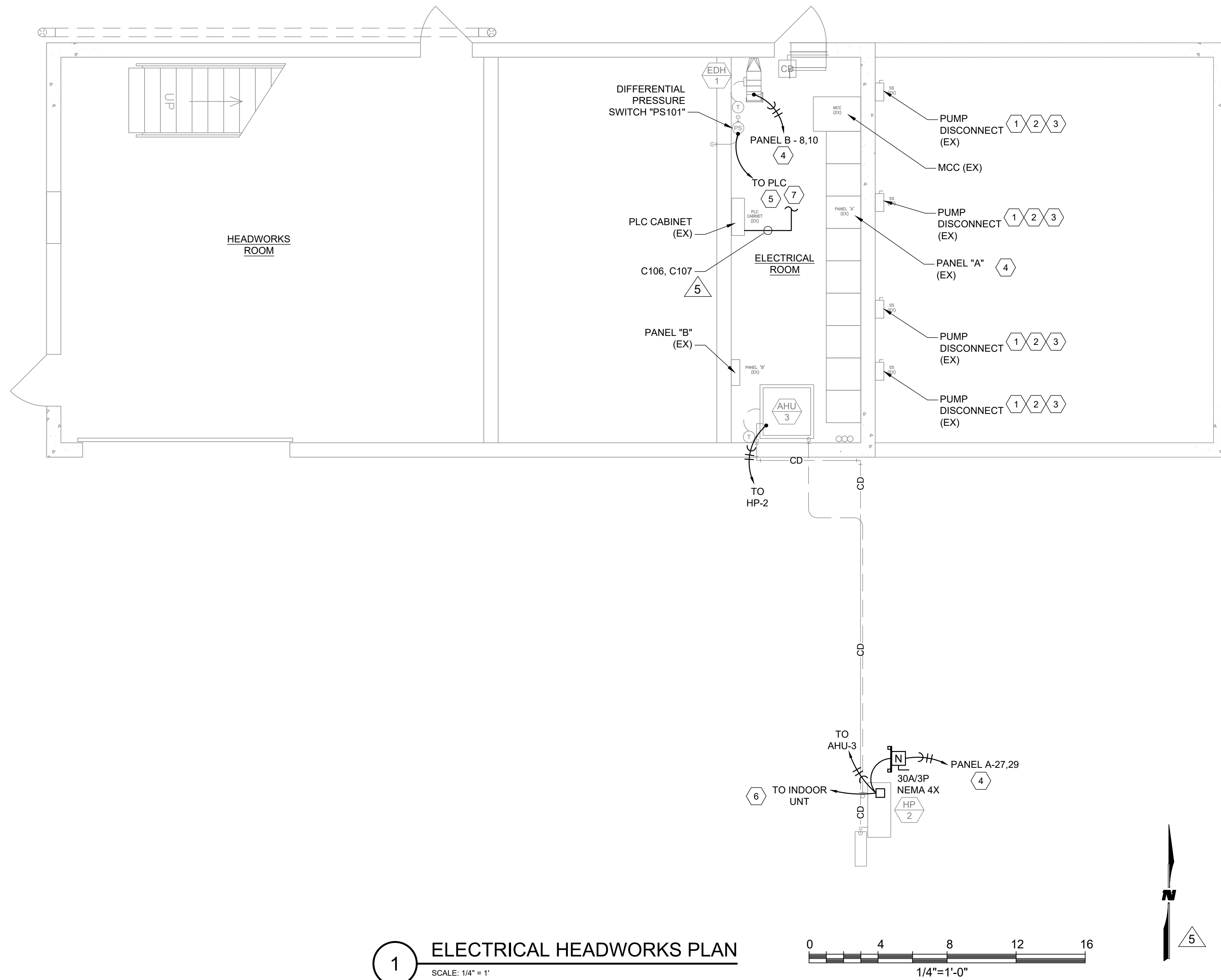
PROJECT NO: 2060051400  
DESIGNED BY: BJD  
DRAWN BY: SRB  
CHECKED BY: BJD  
DATE: MARCH 2021

SHEET TITLE  
**ELECTRICAL  
PRIMARY DIGESTER  
BUILDING**

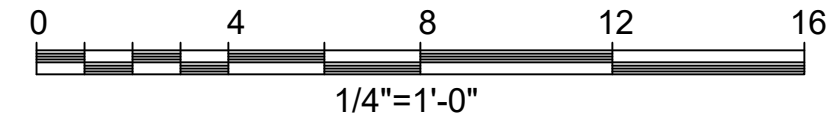
SHEET NO:  
**E-431**



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**1** ELECTRICAL HEADWORKS PLAN  
SCALE: 1/4" = 1'



**GENERAL NOTES:**

1. THE WATER TREATMENT FACILITY HAS HAZARDOUS LOCATIONS CLASSIFIED BY NFPA 820 STANDARD FOR FIRE PROTECTION IN WATER TREATMENT AND COLLECTION FACILITIES, HEREAFTER REFERRED TO AS THE CODE. SPECIFICALLY, THE HEADWORKS, SBR BASINS AND THE PRIMARY DIGESTER BASINS HAVE CLASSIFIED AREAS AS DEFINED BY THE CODE. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CLASS 1 DIVISION 1 AND CLASS 1 DIVISION 2 INSTALLATIONS AS REQUIRED BY THE CODE.
2. SEE ENLARGED SITE PLAN FOR ADDITIONAL COORDINATION SHEET E-002.
3. COORDINATE ALL MECHANICAL EQUIPMENT WITH MECHANICAL SHEETS FOR FINAL LOCATIONS AND SCHEDULES FOR POWER AND CONTROL REQUIREMENTS.
4. THE CONTRACTOR SHALL PROVIDE CONTROL WIRING AND CONDUIT FOR FIELD DEVICES AND EQUIPMENT. CONDUITS TAGS TO PLC SHALL CONTAIN THE WIRING REQUIRED AND AS INDICATED ON THE PLC INPUT/OUTPUT SCHEDULES, SEE SHEETS E-620 AND E-621. THE CONTRACTOR SHALL COORDINATE ALL FIELD CONTROL WIRING WITH THE SYSTEMS INTEGRATOR.
5. HEADWORKS ELECTRICAL ROOM SHALL HAVE ALL WALL AND CONDUIT OPENINGS SEALED TO PROVIDE AN AIR-TIGHT SEALED SPACE.

**KEYED NOTES:** (X)

1. CONTRACTOR TO CHECK, CLEAN AND RE-TORQUE CONNECTIONS, APPLY ANTI-OXIDANT COMPOUND, AND GIVE THE OWNER A LIST OF REALLY BAD CONDUCTORS THEY FIND IN THE PROCESS FOR HEADWORKS ELECTRICAL EQUIPMENT.
2. CAULK AND SEAL GAPS AROUND CONDUITS LEADING UP TO THE PUMP DISCONNECTS.
3. CHECK AND SEAL EXISTING PUMP DISCONNECT CONDUITS WITH EPOXY INSULATION.
4. DEMOLITION EXISTING ELECTRICAL FOR EXISTING HVAC EQUIPMENT AC-1 AND CU-1. REMOVE EXISTING 2 POLE 30A BREAKER IN PANEL 'A' POLES 27 AND 29. PROVIDE NEW 40A, 2 POLE BREAKER IN PANEL 'A' POLES 27 AND 29. BREAKERS SHALL MATCH AIC RATING OF THE PANEL.
5. PROVIDE 4-20MA SIGNAL TO THE PLC TO MONITOR THE DIFFERENTIAL PRESSURE. PROVIDE A SHIELDED TWISTED PAIR IN 3/4" CONDUIT. UTILIZE EXISTING ANALOG INPUT MODULE SPARE INPUT. PROVIDE PROGRAMMING FOR THE SCADA SYSTEM TO MONITOR THE DIFFERENTIAL PRESSURE.
6. PROVIDE #14 AWG FOUR CONDUCTOR STRANDED SHIELDED COMMUNICATION CABLE IN A 1" CONDUIT BETWEEN THE OUTDOOR AND INDOOR UNITS. GROUND THE SHIELD AT THE OUTDOOR UNIT ONLY.
7. SEE SHEET E-002 FOR CONTINUATION OUTSIDE OF THE BUILDING.

**ALTERNATE ADDITIVES:**

- CONTRACTOR HAS THREE OTHER ALTERNATIVES TO THE OPTIONS LISTED IN THE KEYED NOTES.
1. REPLACE ALL CONDUCTORS IN THE HEADWORKS ELECTRICAL ROOM, AS WELL AS IN THE PUMP DISCONNECTS. THE CONDUCTORS IN THE MCC AND PUMP DISCONNECTS ARE HEAVILY CORRODED WITH COPPER SULFIDE AND WILL NEED REPLACED.
  2. REPLACE ALL CONTROL TERMINAL BLOCKS IN THE HEADWORKS ELECTRICAL ROOM. THE TERMINAL BLOCK CONTACTS ARE ALSO CORRODED WITH COPPER SULFIDE AND WILL NEED REPLACED.
  3. REPLACE SUBMERSIBLE PUMP CONDUCTORS AND DISCONNECTS. THE SUBMERSIBLE PUMPS AND DISCONNECTS WILL NEED REPLACED TO ENSURE PROPER WORKING CONDITION OF THE HEADWORKS, DUE TO CORROSION.

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PROJECT NAME  
**CHISHOLM CREEK UTILITY  
AUTHORITY  
WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS**

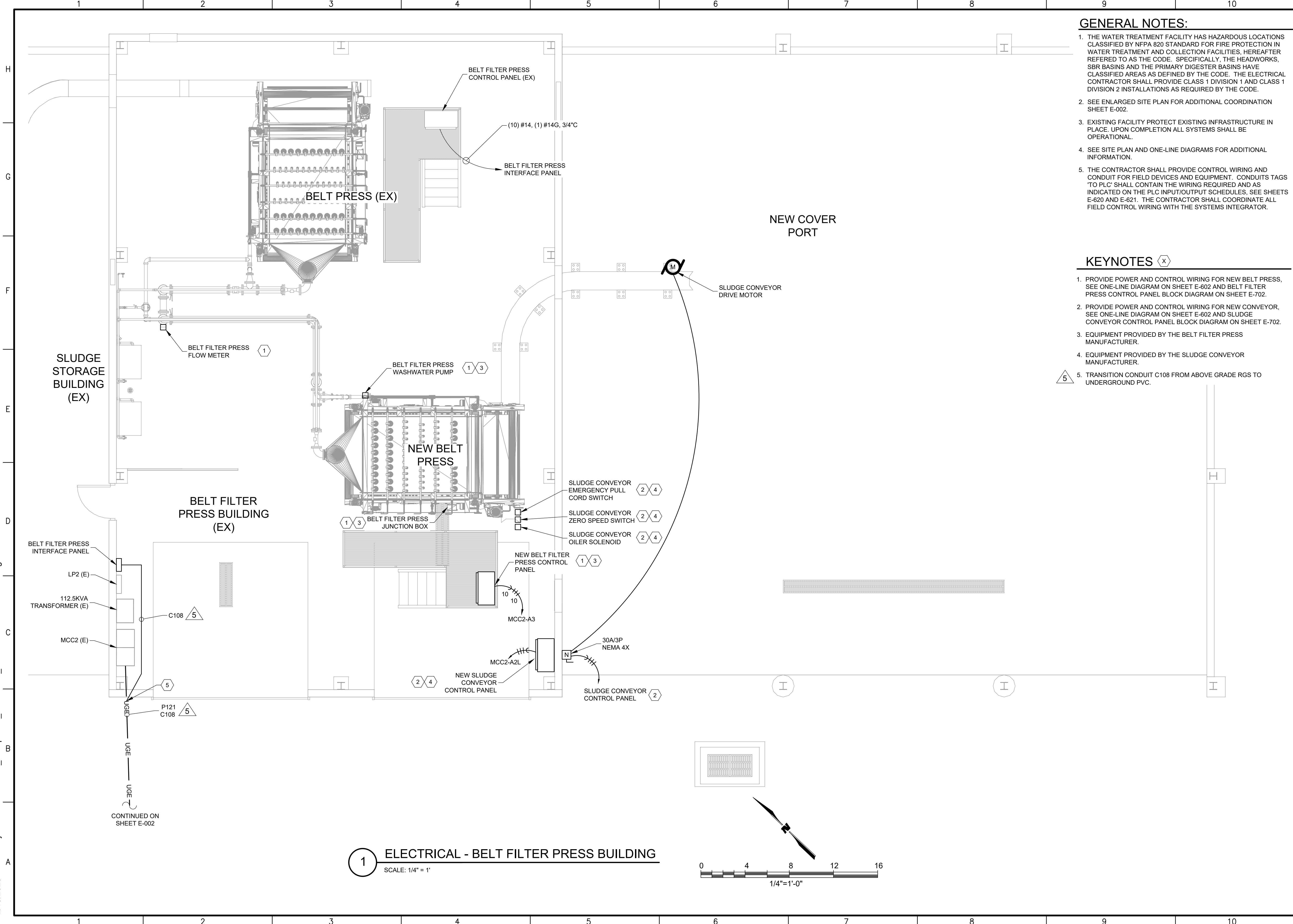
REV.	DATE	DESCRIPTION	BY
5	02/14/25	ISSUED FOR ADDENDUM 3	MWW

PROJECT NO: 2060051400  
DESIGNED BY: BJD  
DRAWN BY: SRB  
CHECKED BY: BJD  
DATE: MARCH 2021

SHEET TITLE  
**ELECTRICAL  
HEADWORKS PLAN**

SHEET NO:  
**E-451**

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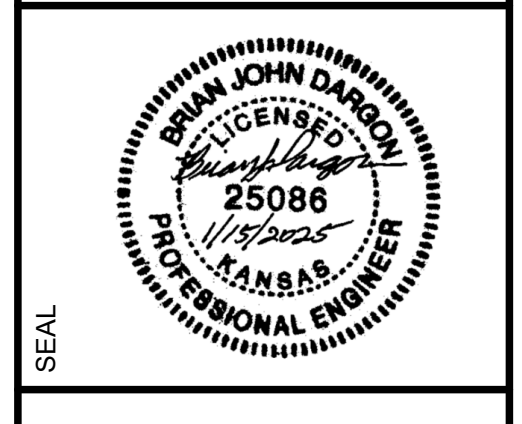


- GENERAL NOTES:**
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  2. SEE ENLARGED SITE PLAN FOR ADDITIONAL COORDINATION SHEET E-002.
  3. EXISTING FACILITY PROTECT EXISTING INFRASTRUCTURE IN PLACE. UPON COMPLETION ALL SYSTEMS SHALL BE OPERATIONAL.
  4. SEE SITE PLAN AND ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
  5. THE CONTRACTOR SHALL PROVIDE CONTROL WIRING AND CONDUIT FOR FIELD DEVICES AND EQUIPMENT. CONDUITS TAGS TO PLC SHALL CONTAIN THE WIRING REQUIRED AND AS INDICATED ON THE PLC INPUT/OUTPUT SCHEDULES. SEE SHEETS E-620 AND E-621. THE CONTRACTOR SHALL COORDINATE ALL FIELD CONTROL WIRING WITH THE SYSTEMS INTEGRATOR.

- KEYNOTES** (X)
1. PROVIDE POWER AND CONTROL WIRING FOR NEW BELT PRESS. SEE ONE-LINE DIAGRAM ON SHEET E-602 AND BELT FILTER PRESS CONTROL PANEL BLOCK DIAGRAM ON SHEET E-702.
  2. PROVIDE POWER AND CONTROL WIRING FOR NEW CONVEYOR. SEE ONE-LINE DIAGRAM ON SHEET E-602 AND SLUDGE CONVEYOR CONTROL PANEL BLOCK DIAGRAM ON SHEET E-702.
  3. EQUIPMENT PROVIDED BY THE BELT FILTER PRESS MANUFACTURER.
  4. EQUIPMENT PROVIDED BY THE SLUDGE CONVEYOR MANUFACTURER.
  5. TRANSITION CONDUIT C108 FROM ABOVE GRADE RGS TO UNDERGROUND PVC.

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PROJECT NAME  
**CHISHOLM CREEK UTILITY  
 AUTHORITY  
 WASTEWATER TREATMENT  
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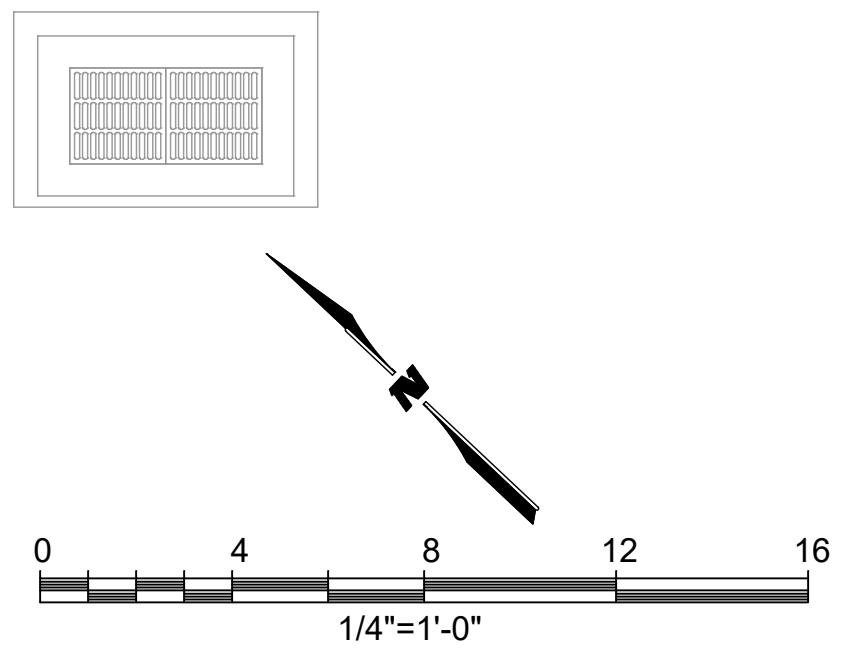
REV.	DATE	DESCRIPTION	MWW	BY
5	02/14/25	ISSUED FOR ADDENDUM 3		

PROJECT NO: 2060051400  
 DESIGNED BY: BJD  
 DRAWN BY: SRB  
 CHECKED BY: BJD  
 DATE: MARCH 2021

SHEET TITLE  
**ELECTRICAL BELT  
 FILTER PRESS  
 BUILDING**

SHEET NO:  
**E-471**

**1 ELECTRICAL - BELT FILTER PRESS BUILDING**  
 SCALE: 1/4" = 1'



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**POWER - CONDUIT AND CABLE SCHEDULE**

TAG	FROM	TO	CONDUIT SIZE	TYPE	SETS	CONDUCTOR SIZE	NOTES
P100	UTIL. TRANS	SWBD1	4"	PVC	5 SETS	4-600Kcmil	COORDINATE WORK WITH EVERGY
P101	SWBD1	GREEN JUNCTION BOX	4"	PVC	3 SETS	4-600Kcmil, 3/0G.	SBR 3,4 MCC1, SPLICE TO EXISTING FEEDER
P102	SWBD1	GREEN JUNCTION BOX	4"	PVC	2 SETS	4-600Kcmil, 1/0G.	HEADWORKS MCC, SPLICE TO EXISTING FEEDER
P103	SWBD1	ATS3	3"	PVC	2 SETS	4-350Kcmil, #1G.	SBR 1,2 ATS3 FEEDER
P104	ATS3	MCC3	3"	PVC	2 SETS	4-350Kcmil, #1G.	SBR 1,2 MCC3 FEEDER
P105	GEN3	ATS3	3"	PVC	2 SETS	4-350Kcmil, #1G.	SBR 1,2 ATS3 FEEDER
P106	SWBD1	ATS4	3"	PVC	2 SETS	4-350Kcmil, #1G.	UV BLD. ATS4 FEEDER
P107	ATS4	MCC4	3"	PVC	2 SETS	4-350Kcmil, #1G.	UV BLD. MCC4 FEEDER
P108	GEN4	ATS4	3"	PVC	2 SETS	4-350Kcmil, #1G.	UV BLD. ATS4 FEEDER
P109	MCC1	PANEL H1	3"	PVC	1 SET	4-350Kcmil, #1G.	PANEL H1 FEEDER PRIMARY DIGESTER BLD.
P110	MCC1	EXISTING 75KVA XFMR	1-1/2"	METALIC	1 SET	3-#1, #6G.	75KVA XFMR PRIMARY FEED
P111	MCC1	PANEL H1A	2"	METALIC	1 SET	4-#3/0, #6G.	PANEL H1A FEED
P112	MCC4	PANEL H4	2"	METALIC	1 SET	4-#3/0, #6G.	PANEL H4 FEED
P113	PANEL H4	TRANS. T4	1"	METALIC	1 SET	3-#6, #10G.	TRANS. T4 FEED
P114	TRANS. T4	PANEL L4	1-1/2"	METALIC	1 SET	4-#1, #6G.	PANEL L4 FEED
P115	MCC3	PANEL H3	1-1/2"	METALIC	1 SET	4-#1/0, #6G.	PANEL H3 FEED
P116	PANEL H3	TRANS. T3	1"	METALIC	1 SET	3-#6, #10G.	TRANS. T3 FEED
P117	TRANS. T3	PANEL L3	1-1/2"	METALIC	1 SET	4-#1, #6G.	PANEL L3 FEED
P118	PANEL H1	TRANS. T1	1"	METALIC	1 SET	3-#6, #10G.	TRANS. T1 FEED
P119	TRANS. T1	PANEL L1	1-1/2"	METALIC	1 SET	4-#1, #6G.	PANEL L1 FEED
P120	PANEL L3	GATE OPERATOR	2"	PVC	1	2-#10, #10G.	GATE OPERATOR POWER
P121	MCC2	V919	2"	PVC	1	3-#10, #10G.	V919 FEEDER
P122	PANEL H4	V907	2"	PVC	1	3-#10, #10G.	V907 FEEDER
P123	ELECTRICAL MANHOLE SPLICE	MCC2	3"	PVC	1 SET	4-350Kcmil, #4G.	MCC2 REFEED

**GENERAL NOTES:**  
 A. ALL CONDUITS IN CLASSIFIED AREAS SHALL BE SEALED AS REQUIRED BY NFPA 820.  
 B. EACH SET OF CONDUCTORS INDICATED SHALL BE INSTALLED IN A CONDUIT OF THE SIZE INDICATED.  
 C. DIRECT BURIED PVC CONDUITS SHALL BE SCHEDULE 80, SEE SPECIFICATION 16130.  
 D. CONDUITS ABOVE GRADE SHALL BE METALIC, SEE SPECIFICATION 16130.

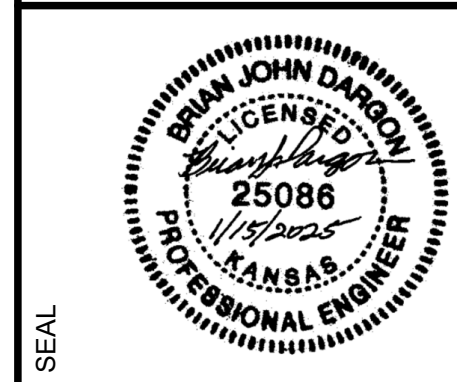
**COMMUNICATIONS - CONDUIT AND CABLE SCHEDULE**

TAG	FROM	TO	CONDUIT SIZE	TYPE	NOTES
C001	CHH-01	CHH-02	2"	PVC	EMPTY
C002	CHH-02	CHH-03	2"	PVC	EMPTY
C003	CHH-03	CHH-04	2"	PVC	PROVIDE MULTI-MODE FIBER FOR NETWORK, SEE E-701
C004	CHH-04	CHH-05	2"	PVC	PROVIDE MULTI-MODE FIBER FOR NETWORK, SEE E-701
C005	CHH-05	CHH-07	2"	PVC	PROVIDE MULTI-MODE FIBER FOR NETWORK, SEE E-701
C006	CHH-07	CHH-01	2"	PVC	PROVIDE MULTI-MODE FIBER FOR NETWORK, SEE E-701
C100	CHH-01	SBR 3&4 PLC CABINET	2"	PVC	PROVIDE MULTI-MODE FIBER FOR NETWORK, SEE E-701
C101	CHH-03	LAB SCADA SWITCH	2"	PVC	PROVIDE MULTI-MODE FIBER FOR NETWORK, SEE E-701
C102	CHH-05	SBR 1&2 PLC CABINET	2"	PVC	PROVIDE MULTI-MODE FIBER FOR NETWORK, SEE E-701
C103	CHH-07	UV BLD PLC CABINET	2"	PVC	PROVIDE MULTI-MODE FIBER FOR NETWORK, SEE E-701
C104	VALVE V907	UV BLD PLC CABINET	2"	PVC	INFLUENT VALVE PIT, CONTROL WRING SEE PLC I/O SCHEDULE
C105	VALVE V919	UV BLD PLC CABINET	2"	PVC	SLUDGE VALVE PIT, CONTROL WRING SEE PLC I/O SCHEDULE
C106	FIT-404	HEADWORKS PLC CABINET	2"	PVC	CONTROL WIRING SEE PLC I/O SCHEDULE
C107	FIT-001	HEADWORKS PLC CABINET	2"	PVC	CONTROL WIRING SEE PLC I/O SCHEDULE
C108	BELT FILTER PRESS INTERFACE PANEL	UV BLD PLC CABINET	2"	PVC	(20) #14, (1) #14G, ROUTED VIA CHH-06 & CHH-07

**GENERAL NOTES:**  
 A. ALL CONDUITS IN CLASSIFIED AREAS SHALL BE SEALED AS REQUIRED BY NFPA 820.  
 B. EACH SET OF CONDUCTORS INDICATED SHALL BE INSTALLED IN A CONDUIT OF THE SIZE INDICATED.  
 C. DIRECT BURIED PVC CONDUITS SHALL BE SCHEDULE 80, SEE SPECIFICATION 16130.  
 D. CONDUITS ABOVE GRADE SHALL BE METALIC, SEE SPECIFICATION 16130.

**WILSON & COMPANY**  
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 SALINA, KS 67401  
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 FAX: 785-827-5949  
 www.wilsonco.com

CONSULTANTS



SEAL

CHISHOLM CREEK UTILITY  
 AUTHORITY  
 WASTEWATER TREATMENT  
 FACILITY IMPROVEMENTS

PROJECT NAME

REV.	DATE	DESCRIPTION	BY
5	02/14/25	ISSUED FOR ADDENDUM 3	MWW
4	02/07/25	ISSUED FOR ADDENDUM 2	MWW

PROJECT NO: 2060051400  
 DESIGNED BY: BJD  
 DRAWN BY: SRB  
 CHECKED BY: BJD  
 DATE: MARCH 2021

SHEET TITLE  
**ELECTRICAL  
 CONDUIT  
 SCHEDULES**

SHEET NO:  
**E-604**



CONTROL SYSTEM I/O SCHEDULE SBR 3,4 PLC OUTPUTS. Table with columns: ID, DESCRIPTION, TYPE, SIGNAL, DESTINATION. Includes items like SBR 3 BLOWER 1 SPEED CONTROL, SBR 3 INFLUENT VALVE OPEN CALL, etc.

NOTES: 1. TRANSMITTER IS A 4-WIRE DEVICE AND WILL REQUIRE 120VAC FROM LIGHTING PANEL... 2. PUMP PROTECTION DEVICE LOCATED IN SBR CONTROL PANEL...

CONTROL SYSTEM I/O SCHEDULE HEADWORKS BUILDING PLC INPUTS. Table with columns: ID, DESCRIPTION, TYPE, SIGNAL, SOURCE. Includes items like REUSE METER, INFLUENT METER.

CONTROL SYSTEM I/O SCHEDULE SBR 3,4 PLC INPUTS. Table with columns: ID, DESCRIPTION, TYPE, SIGNAL, SOURCE. Includes items like SBR 3 LEVEL TRANSMITTER, SBR 3 DO TRANSMITTER, etc.

- I/O SCHEDULE DESIGN NOTES: 1. THE EXISTING SBRs HAVE TWO D.O. TRANSMITTERS EACH... 2. EXISTING SBRs UTILIZE AUTOMATIC AIR VALVES... 3. THIS LIST IS FOR THE SBR RELATED I/O AND DOES NOT ATTEMPT TO INCLUDE ADDITIONAL I/O...



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CHISHOLM CREEK UTILITY AUTHORITY WASTEWATER TREATMENT FACILITY IMPROVEMENTS

PROJECT NAME

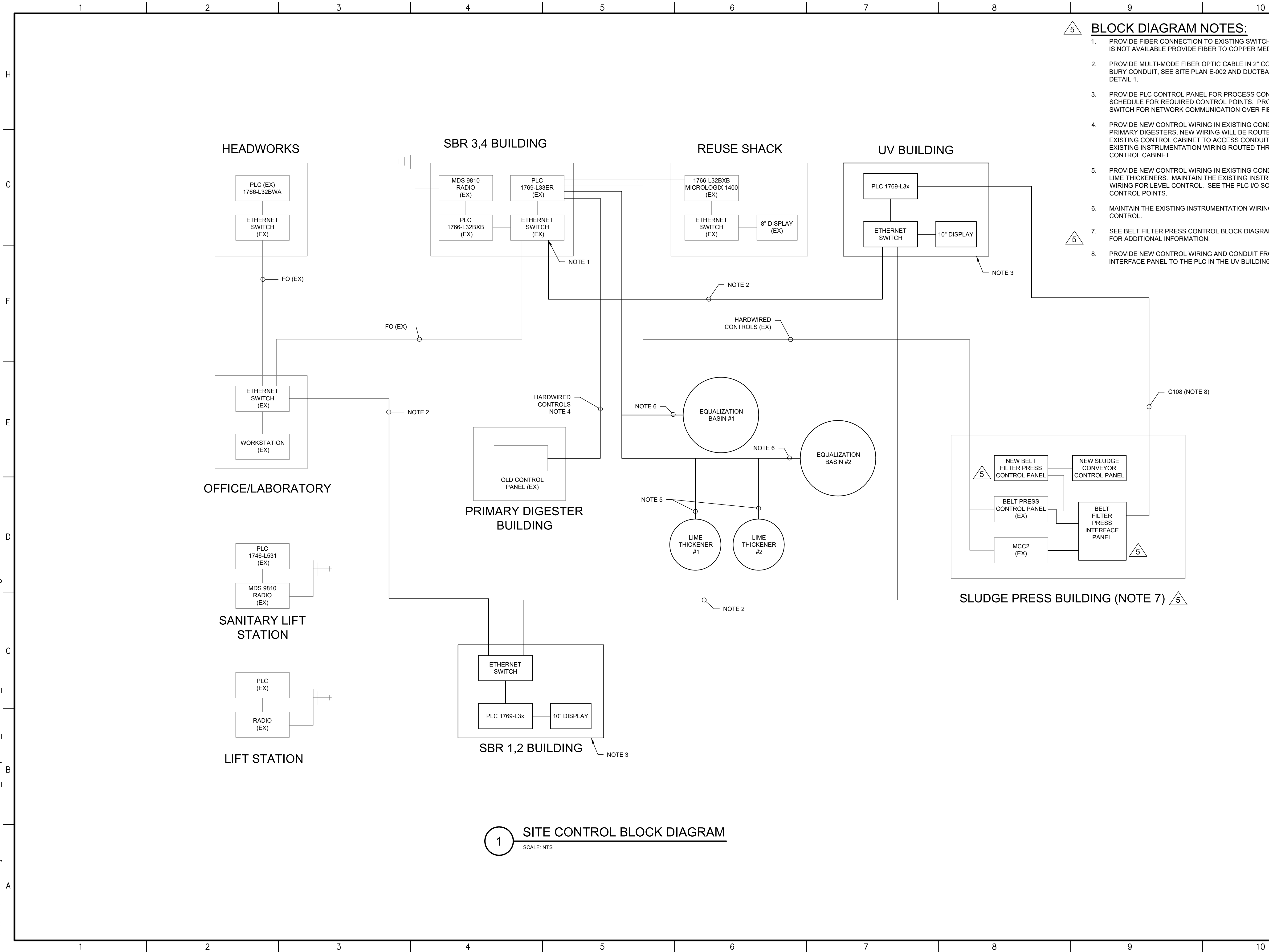
Revision table with columns: REV., DATE, DESCRIPTION, ISSUED FOR, BY, MWW.

PROJECT NO: 2060051400 DESIGNED BY: BJD DRAWN BY: SRB CHECKED BY: BJD DATE: MARCH 2021

SHEET TITLE: ELECTRICAL I/O SCHEDULES

SHEET NO: E-621

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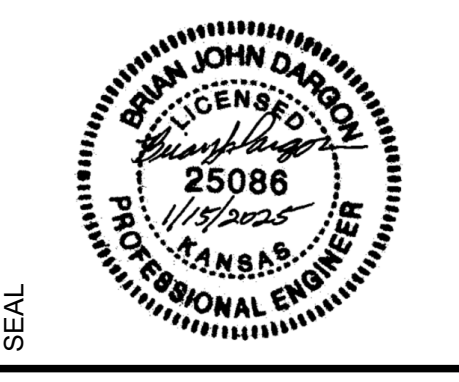


- BLOCK DIAGRAM NOTES:**
1. PROVIDE FIBER CONNECTION TO EXISTING SWITCH. IF FIBER PORT IS NOT AVAILABLE PROVIDE FIBER TO COPPER MEDIA CONVERTER.
  2. PROVIDE MULTI-MODE FIBER OPTIC CABLE IN 2" CONDUIT. DIRECT BURY CONDUIT, SEE SITE PLAN E-002 AND DUCTBANK DETAILS E-501, DETAIL 1.
  3. PROVIDE PLC CONTROL PANEL FOR PROCESS CONTROL. SEE PLC I/O SCHEDULE FOR REQUIRED CONTROL POINTS. PROVIDE ETHERNET SWITCH FOR NETWORK COMMUNICATION OVER FIBER OPTIC CABLE.
  4. PROVIDE NEW CONTROL WIRING IN EXISTING CONDUITS FROM THE PRIMARY DIGESTERS, NEW WIRING WILL BE ROUTED THROUGH THE EXISTING CONTROL CABINET TO ACCESS CONDUITS. MAINTAIN THE EXISTING INSTRUMENTATION WIRING ROUTED THROUGH THE CONTROL CABINET.
  5. PROVIDE NEW CONTROL WIRING IN EXISTING CONDUITS FROM THE LIME THICKENERS. MAINTAIN THE EXISTING INSTRUMENTATION WIRING FOR LEVEL CONTROL. SEE THE PLC I/O SCHEDULE FOR NEW CONTROL POINTS.
  6. MAINTAIN THE EXISTING INSTRUMENTATION WIRING FOR LEVEL CONTROL.
  7. SEE BELT FILTER PRESS CONTROL BLOCK DIAGRAM ON SHEET E-702 FOR ADDITIONAL INFORMATION.
  8. PROVIDE NEW CONTROL WIRING AND CONDUIT FROM THE INTERFACE PANEL TO THE PLC IN THE UV BUILDING.

**1 SITE CONTROL BLOCK DIAGRAM**  
SCALE: NTS

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PROJECT NAME  
**CHISHOLM CREEK UTILITY AUTHORITY WASTEWATER TREATMENT FACILITY IMPROVEMENTS**

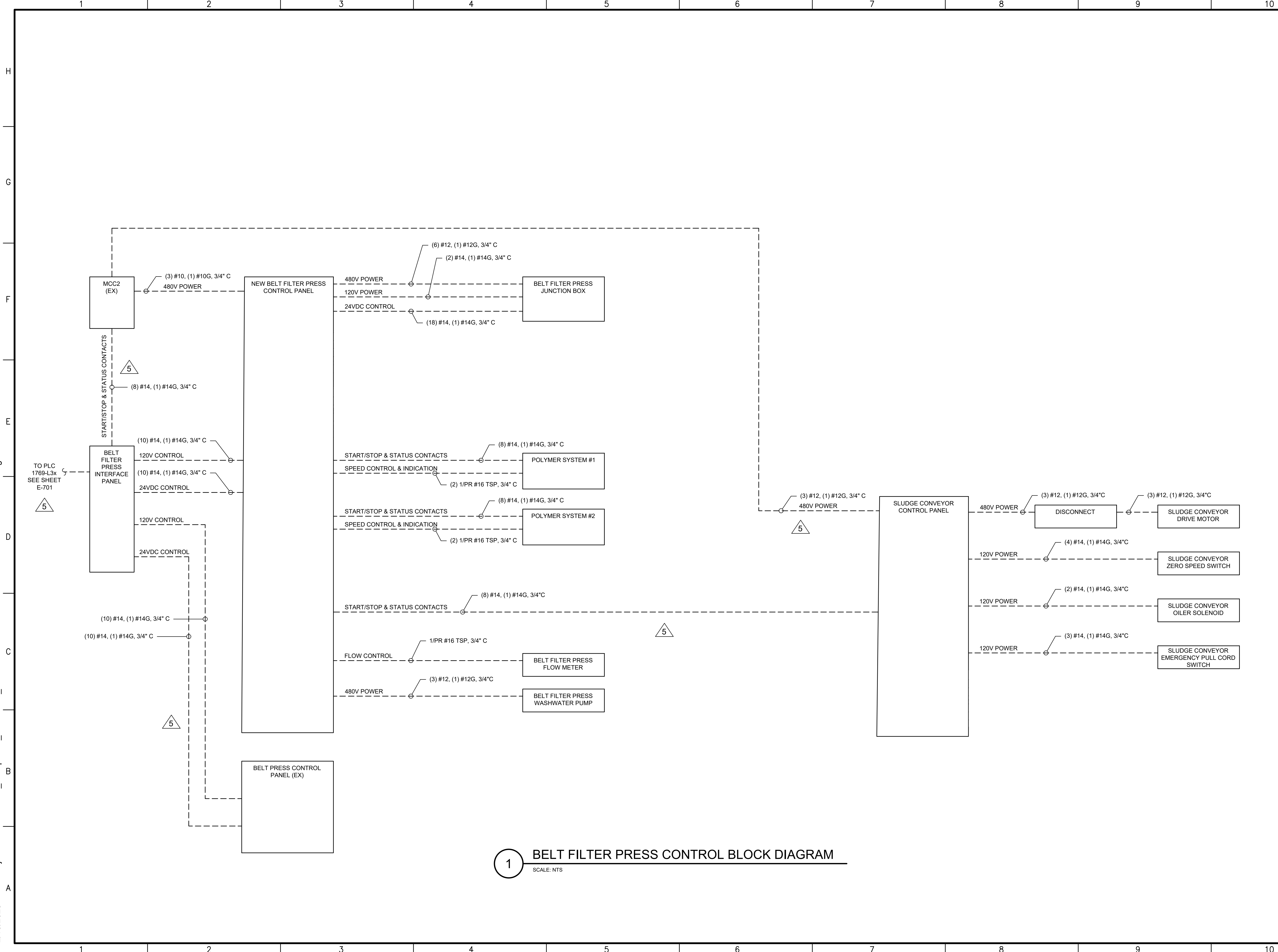
REV.	DATE	DESCRIPTION	BY
5	02/14/25	ISSUED FOR ADDENDUM 3	MWW

PROJECT NO: 2060051400  
DESIGNED BY: BJD  
DRAWN BY: SRB  
CHECKED BY: BJD  
DATE: MARCH 2021

SHEET TITLE  
**SITE CONTROL BLOCK DIAGRAM**

SHEET NO:  
**E-701**

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**1** BELT FILTER PRESS CONTROL BLOCK DIAGRAM  
SCALE: NTS

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PROJECT NAME  
**CHISHOLM CREEK UTILITY  
AUTHORITY  
WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS**

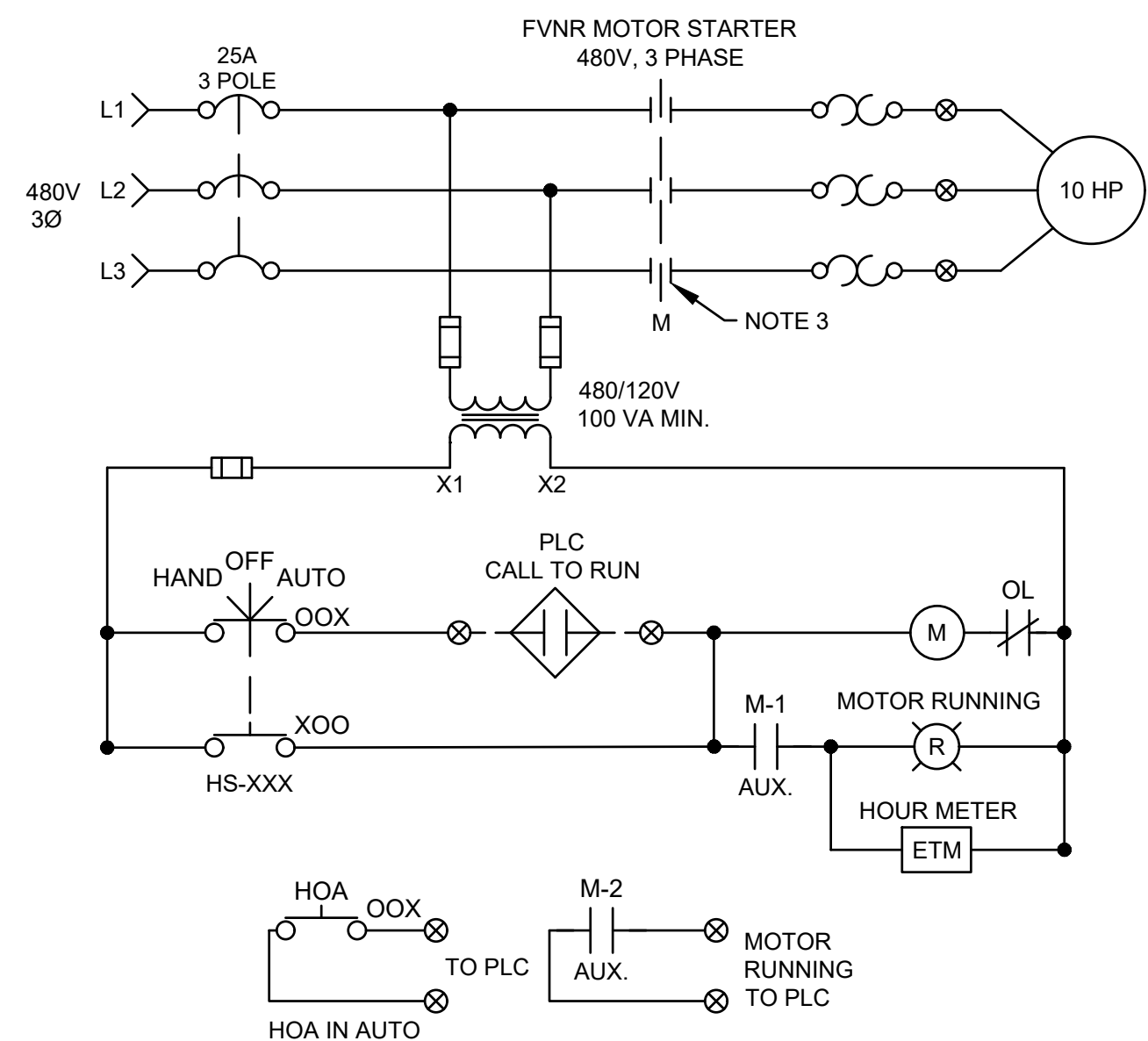
REV.	DATE	DESCRIPTION	BY
5	02/14/25	ISSUED FOR ADDENDUM 3	MWW

PROJECT NO: 2060051400  
DESIGNED BY: BJD  
DRAWN BY: MPB  
CHECKED BY: BJD  
DATE: MARCH 2021

SHEET TITLE  
**BELT FILTER PRESS  
CONTROL BLOCK  
DIAGRAM**

SHEET NO:  
**E-702**

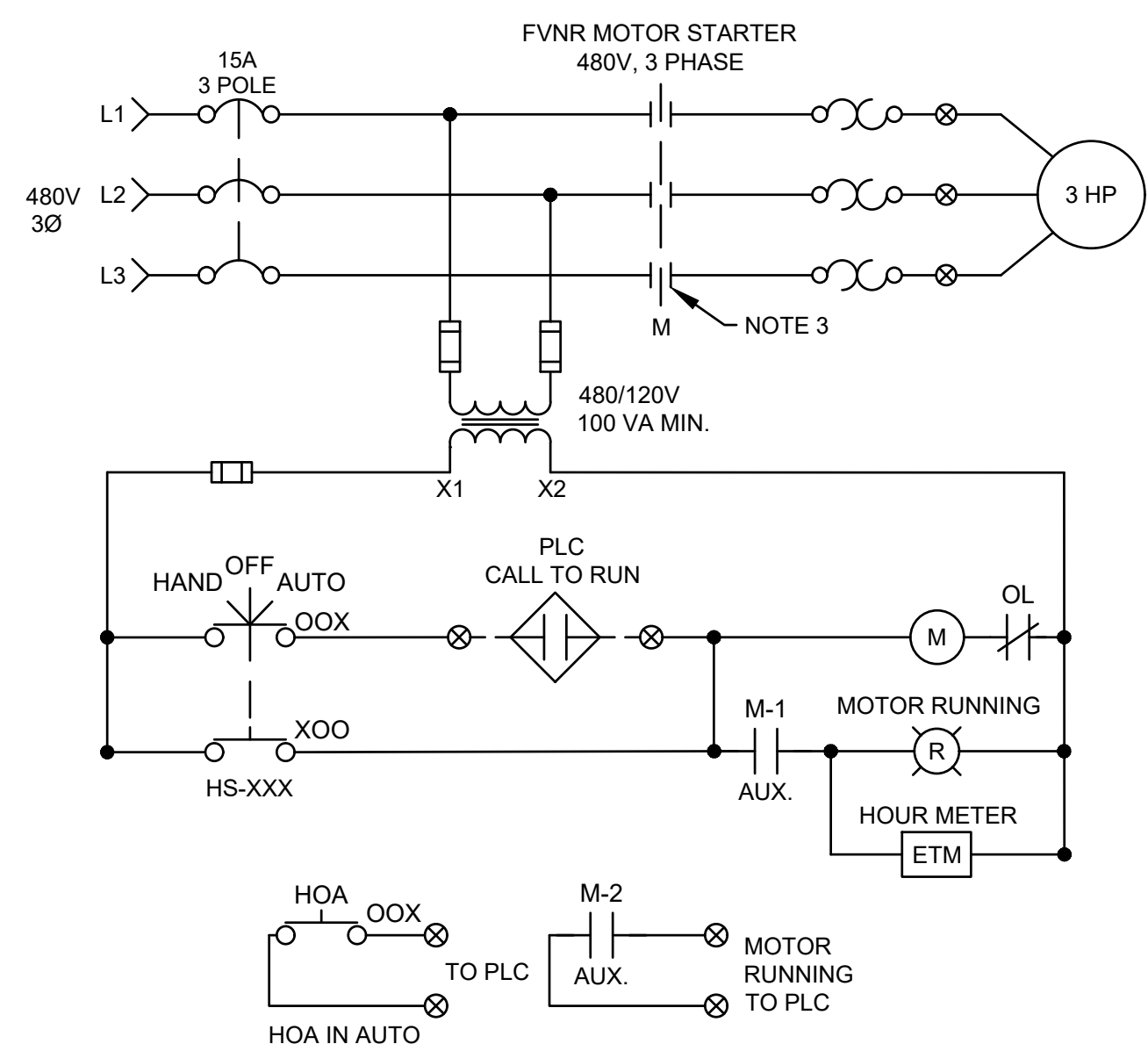
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**NOTES:**

1. PROVIDE FIELD CONTROL WIRING FOR MCC MOUNTED MOTOR STARTER FROM THE PLC.
2. PROVIDE MOTOR BRANCH CIRCUIT AS SCHEDULED FOR THE RAS PUMP.
3. NEMA RATED FVNR MOTOR STARTER WITH MELTING ALLOY TYPE THERMAL OVERLOAD RELAY.
4. CONTROL POWER TRANSFORMER INTEGRAL TO MOTOR STARTER.

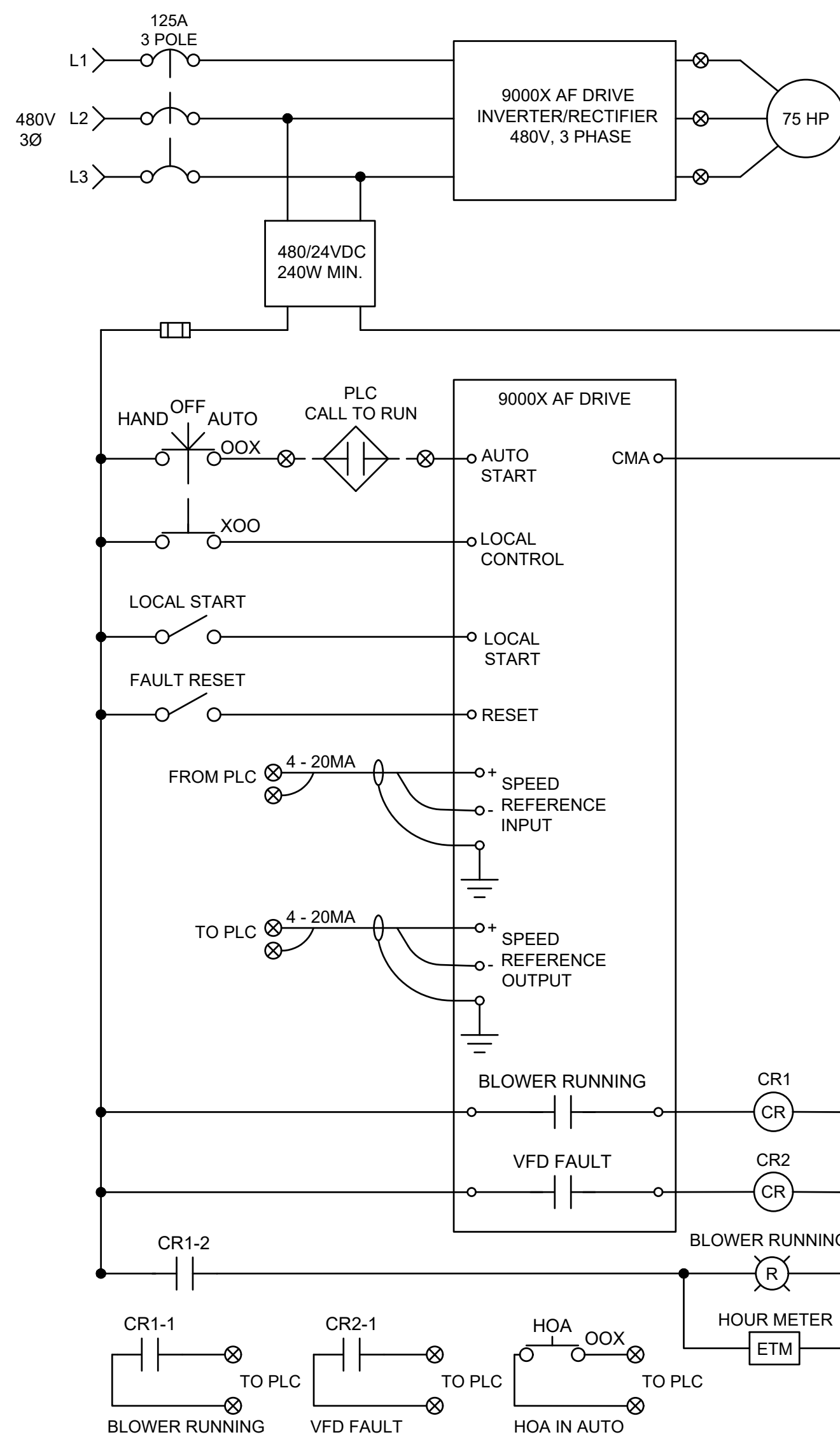
**1 RAS PUMP CONTROL DIAGRAM**  
TYPICAL FOR RAS PUMPS P301, P302, P303, P304



**NOTES:**

1. PROVIDE FIELD CONTROL WIRING FOR MCC MOUNTED MOTOR STARTER FROM THE PLC.
2. PROVIDE MOTOR BRANCH CIRCUIT AS SCHEDULED FOR THE SLUDGE PUMP.
3. NEMA RATED FVNR MOTOR STARTER WITH MELTING ALLOY TYPE THERMAL OVERLOAD RELAY.
4. CONTROL POWER TRANSFORMER INTEGRAL TO MOTOR STARTER.

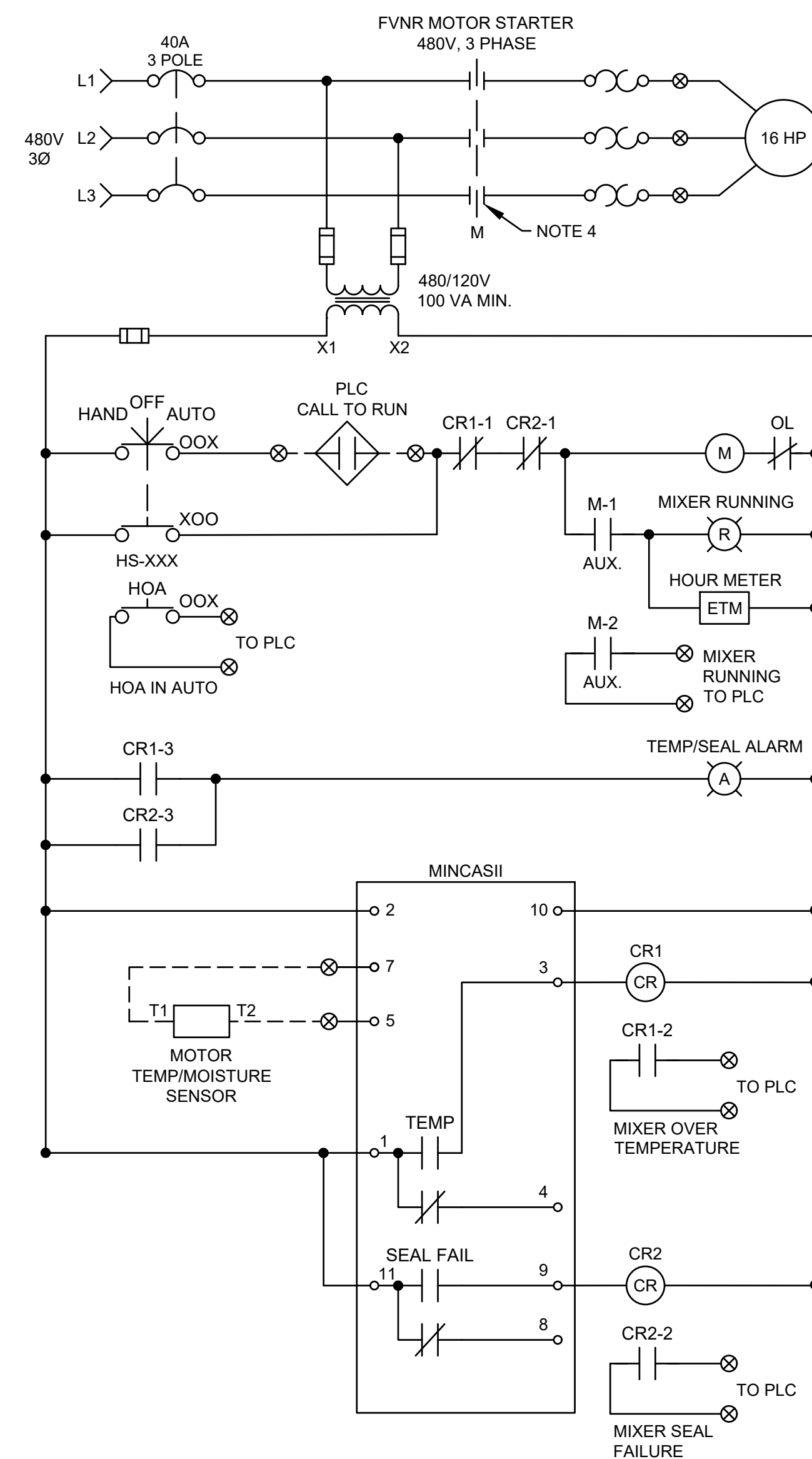
**4 SLUDGE PUMP CONTROL DIAGRAM**  
TYPICAL FOR SLUDGE PUMPS P501, P502



**NOTES:**

1. PROVIDE VARIABLE FREQUENCY DRIVES COMPATIBLE WITH NEW AND EXISTING MOTOR CONTROL CENTERS. CUTLER HAMMER 9000X AF DRIVE SHOWN FOR FUNCTIONAL CONTROL REQUIRED.
2. PROVIDE FIELD CONTROL WIRING FOR THE VARIABLE FREQUENCY DRIVE (VFD) FROM THE PLC.
3. PROVIDE MOTOR BRANCH CIRCUIT AS SCHEDULED FOR THE BLOWER.
4. PROVIDE NEMA RATED VFD MOUNTED ON THE ELECTRICAL RACK IN THE SBR 3.4 ELECTRICAL ROOM FOR BLOWER B310.
5. PROVIDE 24V CONTROL POWER FOR VFD.

**2 BLOWER MOTOR CONTROL DIAGRAM**  
TYPICAL FOR BLOWERS B301, B302, B303, B304, B305, B306, B307, B308, B309, B310



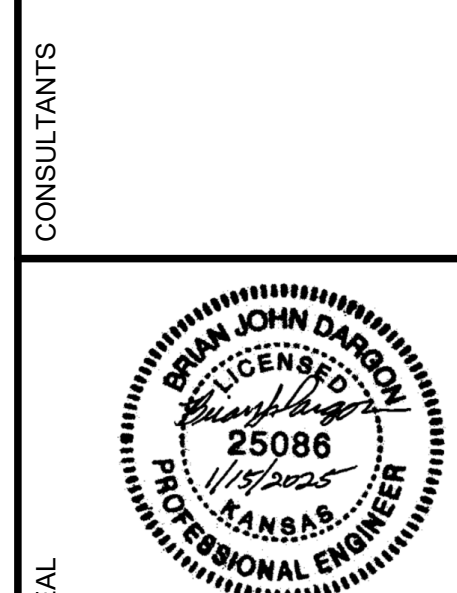
**NOTES:**

1. PROVIDE MOTOR TEMPERATURE AND SEAL LEAK DETECTION FOR THE LIME MIXER MOTORS. PROVIDE DETECTION DEVICE COMPATIBLE WITH MOTOR, MINCASII DETECTOR SHOWN FOR FUNCTIONAL CONTROL.
2. PROVIDE FIELD CONTROL WIRING FOR MCC MOUNTED MOTOR STARTER FROM THE PLC.
3. PROVIDE MOTOR BRANCH CIRCUIT AS SCHEDULED FOR THE MIXER.
4. NEMA RATED FVNR MOTOR STARTER WITH MELTING ALLOY TYPE THERMAL OVERLOAD RELAY.
5. CONTROL POWER TRANSFORMER INTEGRAL TO MOTOR STARTER.

**3 LIME MIXER CONTROL DIAGRAM**  
TYPICAL FOR LIME MIXERS M901 AND M902

**WIRE LEGEND:**  
 ● TERMINAL IN PANEL  
 — WIRING IN PANEL  
 ⊗ CONNECTION TO FIELD TERMINAL  
 - - - FIELD WIRING

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**CHISHOLM CREEK UTILITY AUTHORITY**  
**WASTEWATER TREATMENT FACILITY IMPROVEMENTS**

REV.	DATE	DESCRIPTION	BY
5	02/14/25	ISSUED FOR ADDENDUM 3	MWW

PROJECT NO: 2060051400  
 DESIGNED BY: BJD  
 DRAWN BY: SRB  
 CHECKED BY: BJD  
 DATE: MARCH 2021

SHEET TITLE  
**CONTROL DIAGRAMS**

SHEET NO:  
**E-710**



SECTION 16511A

PRE-NEGOTIATED TELEMETRY SCOPE OF SERVICES

February 10, 2025

Doug Goetz  
Wilson & Company Inc.  
1700 East Iron Avenue  
Salina, KS 67401

Re: CCUA Wastewater Treatment Facility  
Improvements  
Instrumentation and Controls

Doug,

Please consider this proposal for the Instrumentation & Controls for the WTF Improvements project for Chisholm Creek Utility Authority. This proposal includes items from Sections 11300, 16900, 16901, 16905, 16911, 16913, 16914, 16921 and 16511(**excluding fiber optic cable**) as outlined below. The SBR Control Panel and associated instrumentation are included with the SBR Equipment pre-negotiated line item.

A purchase order will be accepted from the successful general contractor. If a sub-contract agreement is required by the GC, then they should contact me prior to bid to discuss any additional costs that may need to be included.

Items Included:

**Instrumentation**

Section 11300, Meters

- Plant Effluent Flow, FE/FIT-401  
20" Magnetic Flowmeter, Class 150 flange  
Remote Electronics for installation in building, with wall mount bracket  
Cable between meter and transmitter, as required  
Potting kit for accidental submersion  
Programming, commissioning, training
- Effluent ReUse Flow, FE/FIT-404  
10" Magnetic Flowmeter, Class 150 flange  
Remote Electronics, with wall mount bracket  
Cable between meter and transmitter  
Potting kit for accidental submersion, as required  
Programming, commissioning, training
- Belt Filter Press Flow, FE/FIT-XXX  
6" Magnetic Flowmeter, Class 150 flange  
Remote Electronics, with wall mount bracket (or local if required)  
Cable between meter and transmitter  
Programming, commissioning, training

## Section 16911, Transmitters and Sensors

- UV Wetwell Level, LIT-401  
Submersible pressure sensor  
Local Display/transmitter Panel
- Headworks Electrical Room Pressure, PS101  
Positive Differential Pressure 4-20mA transmitter with local readout

## Other Instruments

- Flow Switch  
ReUse Flow Established, FS-404
- UV Wetwell Float Switches  
Wetwell High, LS-401  
Wetwell Low, LS-402

## **UV Building Control Panel**

A new PLC control panel will be provided to be installed by the contractor in the new UV Building. The UV Building Control Panel will control and monitor: 3 UV Pumps, Effluent ReUse Pump, Outfall Valve, EQ Basin Isolation Valve, Waste Sludge Valved, UV Influent Valve, UV Request and status (x3), ReUse Tank Influent Valve and ReUse Pump. It will also monitor: Effluent Flow Rate, UV Basin Level, and Generator. Note: HOA switches and status indication that are supplied on the MCC or Equipment Control Panels will not be duplicated on this panel (Status will be available on the 10" touchscreen)

- NEMA 4 painted steel construction, freestanding
- 120VAC incoming power requirement with UPS for temporary power backup
- 10" color Touchscreen
- 24VDC power supply
- Ethernet switch with fiber ports for self-healing ring topography
- Fiber patch panel for incoming multimode fiber
- Allen Bradley CompactLogix PLC with I/O as required
- Alarm horn with silence pushbutton

## **Belt Filter Press Interface Panel**

NEMA 4 painted steel wall-mount control panel to be installed by the contractor in the Sludge Press Building. Includes selector switches and relays to allow the operator to select which feed pumps are controlled by each Belt Filter Press.

### **SCADA Computer Upgrades**

The two existing computers (one in Lab and one in existing SBR Electrical Room) will be replaced with new computers and new graphical interface software. The existing functionality will be duplicated along with the interface for the new equipment.

- 2) Personal Computers with the following minimal specs
  - Windows 11 Pro
  - 1TB hard drive
  - 24" Monitor
  - Keyboard
  - Mouse
  - UPS
- Graphical Interface Software
- Remote internet monitoring capability
- Historical data with trending
- Alarm notification software to replace the existing phone dialer

### **Spare Parts**

- One PLC Processor
- One of each type of I/O card
- Two of each type of power supply
- Spares of each type of fuse supplied

### **Other Items Included**

- Ethernet switch with fiber ports for self-healing ring topography provided and installed in the lab network panel
- Analog input added to Headworks PLC for Elec Room Pressure
- 2) Alum Feed System monitoring and control (Feed Pump x4 Start/Stop and Run indication, and Tank Volume monitoring via 4-20mA from scale)
- Startup, training and travel incidentals
- Submittal data and O&M data in .pdf format
- PLC Programming, Touchscreen, and PC Graphical Interface Development

**Price for Above: \$193,162.00**

### **Items NOT included in proposal**

The following items are not included in the price above:

- Fiber optic cable or fiber terminations specified in Section 16511, para 2.2.
- Motor starters, VFDs and associated circuitry shown on Sheets E-710 through E-712
- SBR Control Panel or Modification the Existing SBR Control Panel (provided with SBR equipment), except for Chem Feed control/monitoring listed above

- Chemical Feed System (pumps, scales, tanks, etc.)
- Instrumentation not specifically listed above, such as:
  - SBR DO transmitters (provided with SBR equipment)
  - SBR ORP transmitters (provided with SBR equipment)
  - SBR Level transmitters (provided with SBR equipment)
  - SBR Float switches (provided with SBR equipment)
- Items required for installation of panels/instrumentation such as wall anchors, cord grips, stilling wells, float hooks, etc.
- Any local control panels, junction boxes, or wiring outside control panels listed above as supplied/modified
- Installation of panels, instruments or other items.
- Termination of wiring at control panels or field devices
- UL 508 listing on control panels
- Bonding
- Insurance above current limits. Certificate available upon request.

Please let me know if you have any questions.

Sincerely,

*Matt Stallbaumer*

[matt@systemskc.com](mailto:matt@systemskc.com)  
913-485-3307

SECTION 00300

BID FORM

Wastewater Treatment Facility Improvements  
Chisholm Creek Utility Authority

Wilson & Company File: 20-600-514-00

1. BID RECIPIENT

- 1.1 This Bid is submitted to Chisholm Creek Utility Authority.
- 1.2 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform and furnish all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

2. BIDDER'S ACKNOWLEDGEMENTS

- 2.1 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for sixty (60) days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner. Bidder will sign and submit the Agreement with the Bonds and other documents required by the Bidding Requirements within fifteen days after the date of Owner's Notice of Award.

3. BIDDER'S REPRESENTATIONS

- 3.1 In submitting this Bid, Bidder represents, as more fully set forth in the Agreement that:

- 3.1.1 Bidder has examined and carefully studied the Bidding Documents, other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged:

<u>Addendum No.</u>	<u>Addendum Date</u>
_____	_____
_____	_____
_____	_____
_____	_____

- 3.1.2 Bidder has familiarized itself with the nature and extent of the Bidding Documents and visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- 3.1.3 Bidder is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress, and performance of the Work.
- 3.1.4 Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions relating to

existing surface or subsurface structures at the Site (except Underground Facilities) that have been identified in SC-4.02 as containing reliable "technical data," and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site that have been identified in SC-4.06 as containing reliable "technical data."

- 3.1.5 Bidder has considered the information known to Bidder; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents; and (3) Bidder's safety precautions and programs.
- 3.1.6 Based on the information and observations referred to in Paragraph 3.1.5 above, Bidder does not consider that further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- 3.1.7 Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- 3.1.8 Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.
- 3.1.9 The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

#### 4. BIDDER'S CERTIFICATION

##### 4.1 Bidder certifies that:

- 4.1.1 This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- 4.1.2 Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- 4.1.3 Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- 4.1.4 Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.1.4:
  - a. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
  - b. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices

- at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
- c. “collusive practice” means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
  - d. “coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

5. BASIS OF BID

5.1 Bidder will complete the Work including all equipment, materials, labor and installation in accordance with the Contract Documents for the following price(s):

LUMP SUM BID PRICE\*:

\_\_\_\_\_ (written) Dollars (\$ \_\_\_\_\_).

\*Note: The Owner negotiated equipment prices and allowance (table below) are to be included in the Lump Sum Bid Price above as follows:

1. Parkson Corporation price for the Sequencing Batch Reactor equipment and blowers.
2. Glasco UV price for the Ultraviolet Disinfection equipment
3. Evoqua VAF Filter price for filtration system equipment.
4. Komline price for the belt filter press equipment.
5. Serpentix price for the conveyor system equipment.
6. Systems Manufacturing price for the telemetry equipment and installation.
7. Contractor allowance

Bid Item	Item Description	Amount
<b>Prenegotiated Equipment and Services</b>		
1	SBR Equipment (Parkson)	\$ 3,951,200
2	UV Chambers & Controls (Glasco)	\$ 334,125
3	Evoqua VAF Filter	\$ 233,870
4	K-S Belter Filter Press	\$ 462,150
5	Pathwinder Conveyor	\$ 140,700
6	Controls and Telemetry (Systems Manufacturing Inc.)	\$ 193,162
7	Contract Contingency Allowance	\$ 600,000

Contractor Contingency Allowance: The Contract Contingency Allowance (Bid Item #7 in the above chart) shall be included in the Lump Sum Base Bid Price. The contractor’s profit and overhead shall be included in the Contract Price so that if these allowances are authorized, no additional Contractor’s profit or overhead shall be included. These allowances cannot be expended without a written directive from the Engineer.



Basin	Diameter (ft)	Estimated Sludge Depth (ft)	Volume of Sludge (cubic ft)
Proposed Lime Sludge Thickener #1	32	2	1,608.5
Proposed Lime Sludge Thickener #2	32	2	1,608.5
Proposed EQ Basin #2	67	1	3,525.6
Proposed Primary Digester #1	67	0.5	1,762.8
Proposed Primary Digester #2	67	0.5	1,762.8
<b>Total</b>			<b>10,268.3</b>

Bid Item	Quantity (cu. ft)	Unit Cost (\$)	Total Cost (\$)
8. Sludge Removal	10,268		

Contractor shall use estimated sludge quantities provided in chart above and the unit price should include amount considered by Bidder to be adequate to cover Contractor's overhead and profit. Contractor shall fill in a unit cost in the event that the total sludge quantity differs in construction so payment can be increase/reduced as needed. The Total Cost of Bid Item #8 shall be included in the Lump Sum Bid Price.

Bidder acknowledges that estimated quantities are not guaranteed and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Work will be based on actual quantities, determined as provided in the Contract Documents.

## 5.2 BID ALTERNATES

The Owner reserves the right to accept or reject the following alternates in any combination. Upon acceptance of the alternate(s) by the Owner, the named items shall be furnished, removed, or adjusted as shown on the Drawings and as specified. The Total Lump Sum will be modified accordingly.

Alternate No. 1: Work includes the addition of replacing all conductors in the headworks electrical room. As well as in the pump disconnects. The conductors in the MCC and and pump disconnects are heavily corroded with copper sulfide and will need replaced (E-451).

Total Price Add \$ \_\_\_\_\_

Alternate No. 2: Work includes the addition of replacing all control terminal blocks in the headworks electrical room. The terminal block contacts are also corroded with copper sulfide and will need replaced (E-451).

Total Price Add \$ \_\_\_\_\_

Alternate No. 3: Work includes the addition of replacing submersible pump conductors and disconnects. The submersible pumps and disconnects will need replaced to ensure proper working condition of the headworks, due to corrosion (E-451).

Total Price Add \$ \_\_\_\_\_

TIME OF COMPLETION

- 6.1 Bidder agrees that the Work will be substantially complete within \_\_\_\_\_ calendar days after the date when the Contract Times commence to run as provided in the General Conditions, and will be completed and ready for final payment in accordance with the General Conditions within \_\_\_\_\_ calendar days after the date when the Contract Times commence to run.
- 6.2 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified above.

6. ATTACHMENTS TO THIS BID

- 7.1 The following documents are submitted with and made a condition of this Bid:
  - 7.1.1 Required Bid security;
  - 7.1.2 List of Subcontractors
  - 7.1.3 Evidence of authority to do business in the state of the Project; or a written covenant to obtain such authority within the time for acceptance of Bids;

7. DEFINED TERMS

- 8.1 The terms used in this Bid which have the meanings assigned to them as defined in the Instruction to Bidders, the General Conditions, and the Supplementary Conditions.

8. ADDRESS

- 9.1 Communications concerning this Bid shall be addressed to:
  - 9.1.1 The address of Bidder indicated below.

9. BID SUBMITTAL

- 10.1 This Bid is submitted by:

If Bidder is:

An Individual

Name (typed or printed): \_\_\_\_\_

By: \_\_\_\_\_  
(Individual's signature)

Doing business as: \_\_\_\_\_

A Partnership

Partnership Name: \_\_\_\_\_

By: \_\_\_\_\_  
(Signature of general partner -- attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

A Corporation

Corporation Name: \_\_\_\_\_ (SEAL)

State of Incorporation: \_\_\_\_\_

Type (General Business, Professional, Service, Limited Liability): \_\_\_\_\_

By: \_\_\_\_\_

(Signature -- attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_

(CORPORATE SEAL)

Attest \_\_\_\_\_

Date of Qualification to do business in \_\_\_\_\_ is \_\_\_\_/\_\_\_\_/\_\_\_\_.

A Joint Venture

Name of Joint Venture: \_\_\_\_\_

First Joint Venturer Name: \_\_\_\_\_ (SEAL)

By: \_\_\_\_\_

(Signature of first joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_

Second Joint Venturer Name: \_\_\_\_\_ (SEAL)

By: \_\_\_\_\_

(Signature of second joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

Bidder's Business Address \_\_\_\_\_

\_\_\_\_\_

Phone No. \_\_\_\_\_ Fax No. \_\_\_\_\_

E-mail \_\_\_\_\_

**DUN & Bradstreet D-U-N-S Number:** \_\_\_\_\_

SUBMITTED on \_\_\_\_\_, 20\_\_\_\_.

END OF SECTION