CITY OF UMATILLA, OREGON

CTUIR/COU Joint Pump and Pipeline Project
Intake and Pump Station

VOLUME III OF III
PLANS

May 2026

Volume I Contract Documents and Special Provisions
Volume II Technical Specifications
Volume III Plans

This project was funded in part with a financial award from the Special Public Works Fund, funded by the Oregon State Lottery and administered by the Oregon Infrastructure Finance Authority

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CONSTRUCTION DRAWINGS (22x34 Pages), Prepared by Kleinschmidt Associates, Inc.

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SECTION 1 - PLANS

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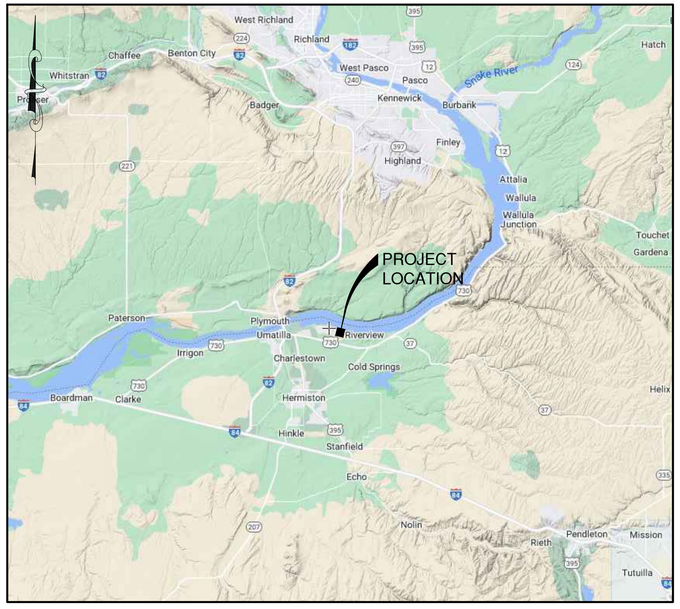
CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STATE MAP



VICINITY MAP

LOCATION MAP

Umatilla Est. 1862

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THIS PROJECT WAS FUNDED IN PART WITH A FINANCIAL AWARD FROM THE SPECIAL PUBLIC WORKS FUND, FUNDED BY THE OREGON STATE LOTTERY AND ADMINISTERED BY THE OREGON INFRASTRUCTURE FINANCE AUTHORITY.

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3" 2" 1" 0

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DRAWING LIST

DRAWING SERIES	SHEET NO.	DRAWING DESCRIPTION	DATE	DRAWING STATUS
100 - GENERAL	100-01	DRAWING LIST	10/17/2025	ISSUED FOR BID
	100-02	NOMENCALTURE AND SYMBOLS	10/17/2025	ISSUED FOR BID
	100-03	PROJECT NOTES (1)	10/17/2025	ISSUED FOR BID
	100-04	PROJECT NOTES (2)	10/17/2025	ISSUED FOR BID
	100-05	PROJECT NOTES (3)	10/17/2025	ISSUED FOR BID
120 - CONSTRUCTION ACCESS AND STAGING	120-01	GENERAL ARRANGEMENT	10/17/2025	ISSUED FOR BID
	120-02	PLAN	10/17/2025	ISSUED FOR BID
	120-03	SITE PLAN AND SECTIONS	10/17/2025	ISSUED FOR BID
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	130-02	COFFERDAM PLAN AND SECTION	10/17/2025	ISSUED FOR BID
	130-03	NOTES AND DETAILS (1)	10/17/2025	ISSUED FOR BID
	130-04	NOTES AND DETAILS (2)	10/17/2025	ISSUED FOR BID
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	200-02	SECTIONS	10/17/2025	ISSUED FOR BID
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	210-02	SECTIONS	10/17/2025	ISSUED FOR BID
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	220-02	EXCAVATION AND GRADING SECTIONS (1)	10/17/2025	ISSUED FOR BID
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	220-04	EXCAVATION AND GRADING BIO-RETENTION PLAN & SECTIONS	10/17/2025	ISSUED FOR BID
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DRAWING LIST

DRAWING SERIES	SHEET NO.	DRAWING DESCRIPTION	DATE	DRAWING STATUS
500 - ELECTRICAL - GENERAL ARRANGMENT	500-01	SITE PLAN	5/20/2026	ISSUED FOR BID
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520 - ELECTRICAL - CONDUIT ROUTING	520-01	PLAN	5/20/2026	ISSUED FOR BID
	520-02	SECTIONS	10/17/2025	ISSUED FOR BID
	520-03	GROUNDING PLAN	5/20/2026	ISSUED FOR BID
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	530-03	EQUIPMENT GROUNDING AND BONDING DETAIL	10/17/2025	ISSUED FOR BID
	530-04	- NOT USED	10/17/2025	ISSUED FOR BID
	530-05	PANELBOARD SCHEDULE LP-1	5/20/2026	ISSUED FOR BID
	530-06	PANELBOARD SCHEDULE LP-2	10/17/2025	ISSUED FOR BID
	530-07	PANELBOARD SCHEDULE PP-1	5/20/2026	ISSUED FOR BID
	530-08	MCC SCHEDULE MCC-1A	10/17/2025	ISSUED FOR BID
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	600-01	BUILDING ROOF AND FLOOR PLAN	10/17/2025	ISSUED FOR BID
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	800-02	DETAILS	10/17/2025	ISSUED FOR BID

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5/15/27

EXPIRES: 12/31/2027

No.	Revision	Date	Drawn	Checked
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CITY OF UMATILLA
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CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

GENERAL
DRAWING LIST

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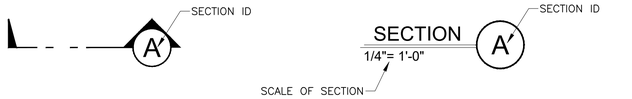
Project No.	Date Revised	Drawing No.
5002-001	05-20-26	100-01

SECTION, DETAIL AND VIEW IDENTIFICATION SYMBOLS



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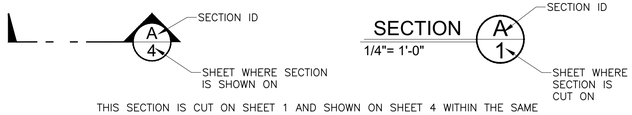

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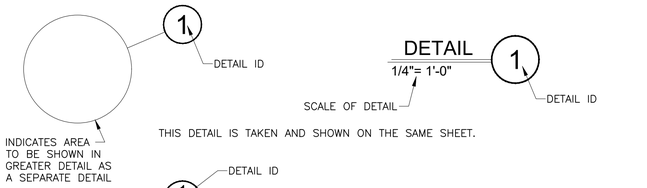

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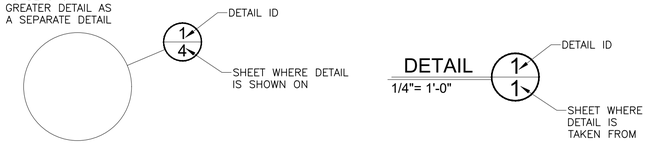

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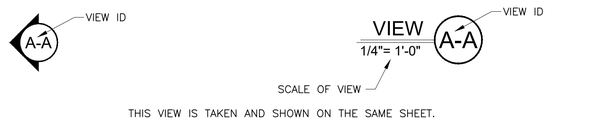

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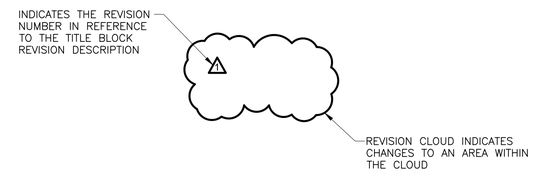
SECTION, DETAIL AND VIEW IDENTIFICATION SYMBOLS NOTES:

1. SECTIONS ARE ALPHABETICAL.
2. DETAILS ARE NUMERICAL.
3. VIEWS ARE DOUBLE ALPHABETICAL.
4. SHEET REFERENCE NUMBER FOR SECTIONS AND DETAILS OCCUR WITHIN THE SAME DRAWING SERIES.

ABBREVIATIONS

ADD'L	ADDITIONAL
A.F.D.	ADJUSTABLE FREQUENCY DRIVE
APPROX.	APPROXIMATE
ARCH, ARCH'L	ARCHITECTURAL
A.T.S.	AUTOMATIC TRANSFER SWITCH
BIA.	BUREAU OF INDIAN AFFAIRS
B.M.	BENCHMARK
BOTT.	BOTTOM
BP.	BEGINNING POINT
CLR.	CLEAR
CLSM.	CONTROLLED LOW STRENGTH MATERIAL
COE.	U.S. ARMY CORPS OF ENGINEERS
CP.	CONTROL POINT
CONC.	CONCRETE
C.J.	CONSTRUCTION JOINT
CTLJ.	CONTROL JOINT
CTUIR.	CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION
EF.	EACH FACE
E.G.	EMERGENCY GENERATOR
EL.	ELEVATION
EMBED.	EMBEDMENT
EP.	END POINT
EW.	EACH WAY
EXIST.	EXISTING
GA.	GAGE
GALV.	GALVANIZE
HDPE.	HIGH DENSITY POLYETHYLENE
HORZ.	HORIZONTAL
I.D.	INSIDE DIAMETER
LOC.	LOCATIONS
LOD	LIMITS OF DISTURBANCE
MAX.	MAXIMUM
M.C.C.	MOTOR CONTROL CENTER
MFR.	MANUFACTURER
MIN.	MINIMUM
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
NMWL	NORMAL MINIMUM WATER LEVEL
No.	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
ODEQ.	OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OHWL	ORDINARY HIGH WATER LEVEL
OPNG	OPENING
P.C.	POINT OF CURVATURE
P.I.	POINT OF INFLECTION
PL.	PLATE
POD	POINT OF DIVERSION/PUMP STATION
PRC.	POINT OF REVERSE CURVATURE
P.S.I.	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	RADIUS
REINF.	REINFORCEMENT
REQD.	REQUIRED
R.O.W.	RIGHT OF WAY
SCHED.	SCHEDULE
S.P.D	SURGE ARRESTOR DEVICE
SQ.FT.	SQUARE FOOT/FEET
S.S.	STAINLESS STEEL
T&B	TOP & BOTTOM
T.O	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
W/	WITH
WL.	WATERLINE
WP.	WORK POINT
#	NUMBER

REVISION IDENTIFICATION



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REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1982 CHARLES W. CUTTING 10/17/25

EXPIRES: 12/31/2025

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

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Project No.	Date Revised	Drawing No.
5002-001	10-17-25	100-02

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

GENERAL
NOMENCLATURE AND SYMBOLS

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GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION STAKING FOR VERTICAL AND HORIZONTAL CONTROL. ALL CONSTRUCTION STAKING SHALL BE COMPLETED UNDER THE SUPERVISION OF A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF OREGON. CONSTRUCTION STAKING SHALL BE INCIDENTAL TO THE PROJECT.
3. THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL BE LICENSED BY THE STATE OF OREGON AND BONDED TO DO WORK IN THE PUBLIC RIGHT-OF-WAY.
4. THE CONTRACTOR IS REQUIRED TO PROVIDE THE OWNER WITH A 24 HOUR, SEVEN DAY A WEEK, EMERGENCY CONTACT PERSON FOR THE PROJECT. THE EMERGENCY CONTACT SHALL HAVE A MAXIMUM ONE HOUR RESPONSE TIME AND SHALL HAVE THE AUTHORITY TO MOBILIZE EQUIPMENT AND MANPOWER AS REQUIRED.
5. ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA.
6. ALL MATERIALS FURNISHED ON OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS IN THE SPECIFICATIONS AND CONTRACTORS MUST FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE REQUIREMENTS OF THE SPECIFICATIONS WHERE A SUBMITTAL IS REQUIRED OR REQUESTED BY THE ENGINEER.
7. THE CONTRACTOR SHALL OBTAIN AND HAVE AVAILABLE COPIES OF THE APPLICABLE STANDARDS AT THE JOB SITE FOR THE DURATION OF THE RELATED CONSTRUCTION OPERATIONS.
8. PROTECT EXISTING BUILDINGS, FENCES, RETAINING WALLS, UTILITIES, IRRIGATION SYSTEMS, AND ANY OTHER ADJACENT FACILITIES. ANY DAMAGE TO EXISTING FACILITIES BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO ADDITIONAL COMPENSATION SHALL BE PROVIDED TO REPAIR THE DAMAGE. REPAIRS SHALL BE TO THE SATISFACTION OF THE OWNER.
9. INSPECTIONS WILL BE PERFORMED BY THE OWNER'S REPRESENTATIVE.EARTHWORK AND CONCRETE TESTING SHALL BE PERFORMED BY A TEST AGENCY RETAINED BY THE CONTRACTOR.
10. EQUIPMENT MAINTENANCE LOG TO BE KEPT ON SITE AT ALL TIMES AND AVAILABLE TO OWNER'S REPRESENTATIVE UPON REQUEST. LOG MUST DOCUMENT INSPECTIONS AND ACTIONS IN ACCORDANCE WITH THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY MUTUAL AGREEMENT ORDER.
11. ALL DIMENSIONS SHOWN ON THESE PLANS AND ANY EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL WARRANT IMMEDIATE ATTENTION OF THE ENGINEER TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.
12. ANY LOT AND RIGHT OF WAY LINES SHOWN ARE CREATED FROM COUNTY ASSESSORS MAPS AND ARE SHOWN FOR REFERENCE ONLY. ACTUAL LOT AND RIGHT OF WAY LINE LOCATIONS MAY VARY. R.O.W. LOCATION SHALL BE DETERMINED FROM PROPERTY PINS THAT ARE LOCATED IN THE FIELD.
13. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE FINAL DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
14. CONTRACTOR SHALL PROVIDE MATERIAL TESTING BY A CERTIFIED TESTING LABORATORY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE MATERIAL TESTING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND CONTACT THE INSPECTOR 24 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION WORK REQUIRING TESTING. A COPY OF THE MATERIAL TESTS SHALL BE PROVIDED TO THE OWNER AND/OR THE OWNER'S REPRESENTATIVE. ALL MATERIAL TESTING IS INCIDENTAL TO THE PROJECT.
15. ALL MATERIAL PLACED AS FILL OR BACKFILL SHALL BE PLACED, COMPACTED, AND TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE PLANS.
16. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL PEDESTRIAN AND TRAFFIC CONTROL. ALL TEMPORARY BARRICADING, SIGNING, TRAFFIC DELINEATION, MARKING, AND CONSTRUCTION DETOURING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD AND OREGON REVISIONS TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR WILL PROVIDE, INSTALL, AND MAINTAIN NECESSARY TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE OWNER FOR REVIEW MINIMUM 1 WEEK PRIOR TO BEGINNING WORK.
17. MANAGE CONSTRUCTION TRAFFIC ON EXISTING LEWIS AND CLARK TRAIL. CONTRACTOR MUST LIMIT VEHICLE SPEEDS TO 10 MPH OR LESS. RESTORE TRAIL TO ORIGINAL CONDITIONS AFTER COMPLETION OF PROJECT.
18. MAINTAIN ACCESS TO ALL EXISTING PUBLIC AND PRIVATE ROADS, ACCESSES, PROPERTIES, AND BUSINESSES DURING CONSTRUCTION. COORDINATE WITH ALL AFFECTED PROPERTY OWNERS. AND MINIMIZE DISRUPTION TO ACCESS AND OPERATIONS. ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
19. CONTRACTOR'S HOURS OF OPERATION SHALL BE: WORKING HOURS ARE MONDAY-FRIDAY 7 AM TO 7 PM. NO WORK IS ALLOWED ON WEEKENDS OR NATIONAL HOLIDAYS EXCEPT FOR INSPECTION AND MAINTENANCE OF TRAFFIC CONTROL AND/OR EROSION AND SEDIMENT CONTROL BMP'S.
20. AT COMPLETION OF PROJECT, CONTRACTOR SHALL NOTIFY OWNER AND/OR OWNER'S REPRESENTATIVE FOR FINAL PUNCH LIST WALK THROUGH. FINAL PUNCH LIST ITEMS SHALL BE COMPLETED NO LATER THAN TWO (2) WEEKS AFTER FINAL PUNCH LIST WALK THROUGH.
21. A COPY OF THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY MUTUAL AGREEMENT ORDER AND THE DEPARTMENT OF STATE LANDS ENVIRONMENTAL PERMIT MUST BE KEPT ONSITE AT ALL TIMES. CONTRACTOR SHALL COMPLY WITH ALL CONSTRUCTION REQUIREMENTS LISTED IN THE ENVIRONMENTAL PERMITS.
22. COORDINATE UTILITY WATCHERS AS DETAILED IN THE SPECS.
23. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE TELECOMMUNICATION UTILITY FOR EXCAVATING WITHIN 10 FEET OF A BURIED FIBER OPTIC COMMUNICATIONS CABLE.
24. CITY WILL SUPPLY WATER FOR COMPACTION AND DUST CONTROL FROM EXISTING HYDRANTS ON BEACH ACCESS ROAD OR WANAPA ROAD. CITY WILL SUPPLY A METER TO QUANTIFY WATER USE. THE CONTRACTOR MAY PROVIDE WATER FROM OTHER SOURCES AT ITS EXPENSE AND IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.
25. EXISTING BEDROCK SHOWN ON PROFILES IS AN APPROXIMATION.
26. A BOUNDARY SURVEY WAS NOT COMPLETED FOR THIS PROJECT. LINEWORK SHOWN IS FROM AVAILABLE RECORD SURVEYS AND IS APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HIRE A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF OREGON TO REFERENCE, RESET AND RECORD A SURVEY FOR ANY DAMAGED MONUMENTATION IN ACCORDANCE WITH ORS 209.140, ORS 209.150 AND ORS 209.250 AND THE CONTRACT SPECIFICATIONS AND SPECIAL PROVISIONS.
27. DETERMINE LOCATIONS, EXISTING CONDITIONS AND DIMENSIONS BY VISITING THE SITE. VERIFY ALL DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING MATERIAL.
28. CONTRACTOR SHALL CLEAN ANY SPILLS OR DEBRIS CAUSED BY CONSTRUCTION.
29. SUBMITTALS:
    - A. SHOP DRAWINGS - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL, MISCELLANEOUS METAL FABRICATIONS INCLUDING METAL BUILDING, CMU REINFORCEMENT, AND CONCRETE REINFORCEMENT. SUBMIT ONE ELECTRONIC COPY OF SHOP DRAWINGS TO OWNER FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL INCLUDE (BUT NOT LIMITED TO):
        - I. PLANS, ELEVATIONS, SECTIONS AND DETAILS OF ALL MEMBERS AND CONNECTIONS.
        - II. INDICATION OF SIZES, SPACING, LOCATIONS OF STRUCTURAL MEMBERS, OPENINGS, ATTACHMENTS, AND FASTENERS.
        - III. INDICATION OF WELDED CONNECTIONS WITH AWS A2.0 WELDING SYMBOLS. INDICATE NET WELD LENGTHS.
        - IV. DETAILS OF ANCHORAGE AND ACCESSORY ITEMS.
        - V. TEMPLATES FOR ANCHOR AND BOLT INSTALLATION.
        - VI. BAR SCHEDULES, SPACING, ARRANGEMENT, PLACEMENT, AND BENDING OF CONCRETE REINFORCEMENT.
    - B. PRODUCT DATA - THE CONTRACTOR SHALL SUBMIT DATA FOR PROPRIETARY MATERIALS AND ITEMS INCLUDING: MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, ELECTRICAL FIXTURES, INSTALLATION INSTRUCTIONS FOR PRODUCTS USED IN STRUCTURAL STEEL AND MISCELLANEOUS METAL FABRICATIONS, ANCHOR DETAILS, COATING PRODUCTS, GROUT, CONCRETE FORMING ACCESSORIES, ADMIXTURES, PATCHING COMPOUNDS, JOINT SYSTEMS, CURING COMPOUNDS, AND OTHERS IF REQUESTED BY ENGINEER/OWNER. INCLUDE MANUFACTURER'S SPECIFICATIONS AND CERTIFICATION AS MAY BE REQUIRED TO SHOW COMPLIANCE WITH DESIGN DRAWINGS.
    - C. RECORD DRAWINGS - THE CONTRACTOR SHALL MAINTAIN A SET OF DESIGN DRAWINGS ON SITE THAT IS MARKED-UP THROUGHOUT THE CONSTRUCTION PROCESS TO IDENTIFY ANY AREAS WHERE ACTUAL CONSTRUCTION DEVIATED FROM WHAT IS SHOWN ON THE DESIGN DRAWINGS. THIS "RED-LINED" DRAWING SET WILL SERVE AS THE RECORD OF CONSTRUCTION AND WILL BE PROVIDED TO THE OWNER AND ENGINEER AT THE COMPLETION OF THE PROJECT TO BE USED IN PREPARATION OF THE RECORD DRAWINGS.
30. INFORMATION SHOWN ON THESE DESIGN DRAWINGS ARE BASED ON LIMITED FIELD MEASUREMENTS. WHERE DIMENSIONS ARE NOT SHOWN, CONTACT ENGINEER FOR CLARIFICATION. FIELD VERIFY ALL DIMENSIONS PRIOR TO START OF WORK.
31. CONTRACTOR SHALL REPAIR ANY PORTIONS OF THE SITE THAT ARE DAMAGED DURING CONSTRUCTION, AND PERFORM LANDSCAPING AND SITE REMEDIATION AS NECESSARY TO LEAVE THE WORK AREA AS CLOSE TO THE ORIGINAL CONDITION AS POSSIBLE.

EXISTING UTILITIES/EROSION CONTROL NOTES

1. APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN ON THE PLANS. THEY ARE TO BE USED FOR GENERAL INFORMATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE APPROPRIATE UTILITY COMPANIES WHEN CONSTRUCTION MIGHT INTERFERE WITH NORMAL OPERATION OF ANY UTILITIES. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE APPROPRIATE UTILITY COMPANY FIELD-LOCATE ANY UTILITY INSTALLATIONS WHICH MIGHT BE AFFECTED BY CONSTRUCTION PRIOR TO BEGINNING WORK IN THAT AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SERVICE OF EXISTING UTILITIES AND FOR RESTORING ANY UTILITIES DAMAGED DUE TO CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. DEPTHS AND ELEVATIONS OF UTILITIES ARE UNKNOWN UNLESS OTHERWISE SHOWN. CONTRACTOR SHALL FIELD VERIFY UTILITY DEPTHS, ELEVATIONS, ANY DISCREPANCIES AND/OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
2. THE CONTRACTOR SHALL SUBMIT A COMPLETE EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION, THE SUBMITTAL IS REQUIRED A MINIMUM 7 DAYS IN ADVANCE OF CONSTRUCTION START. EROSION CONTROL PLAN TO FOLLOW/COMPLY WITH ACCEPTED BMP'S AND INCLUDE NARRATIVE FOR MAINTENANCE OF EROSION CONTROL DEVICES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY PERMITS REQUIRED FOR EROSION CONTROL.
3. ALL DISTURBED AREA TO BE RESTORED PER THE RESTORATION PLAN.

UTILITY NOTES

1. THE MINIMUM COVER FOR ALL WATER LINES SHALL BE 3.5' (4' PREFERRED) UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2. ALL EXISTING UTILITIES DEPICTED IN THESE PLANS ARE AN APPROXIMATION ONLY AND ARE BASED ON PAINTED LOCATE MARKS AND SUPPLEMENTED WITH DRAWINGS WHEN PROVIDED BY UTILITIES. THE CONTRACTOR SHALL CALL FOR LOCATES AND PROTECT ALL EXISTING UTILITIES. DIG AND VERIFY EFFORTS ARE INCIDENTAL.
3. ALL EXISTING UTILITIES THAT CROSS THE PROPOSED UTILITY TRENCHES SHALL BE PROTECTED DURING EXCAVATION UNLESS THE CONTRACTOR IS GRANTED PERMISSION FROM THE OWNER OF THE UTILITY TO TEMPORARILY CUT AND REPAIR THE LINE.
4. GROUNDWATER WAS NOT OBSERVED DURING THE GEOTECHNICAL EXPLORATION, HOWEVER, CONTRACTOR MAY ENCOUNTER SHALLOW GROUNDWATER PERCHED ON TOP OF BEDROCK. DE-WATERING ACTIVITIES ARE INCIDENTAL TO THE PROJECT.
5. OTHER CONTRACTORS MAY BE WORKING WITHIN CLOSE PROXIMITY OF THE CONSTRUCTION SITE. CONTRACTORS MUST COORDINATE ACCORDINGLY TO NOT INTERFERE WITH ONE ANOTHER.

MECHANICAL NOTES

1. CONTRACTOR SHALL CONFIRM ALL LENGTHS, DIMENSIONS, AND ELEVATIONS PRIOR TO FABRICATION AND INSTALLATION.
2. MATERIALS:
    - A. STEEL PIPE: STEEL PIPE SHALL MEET THE REQUIREMENTS OF AWWA C200, UNLESS SPECIFICALLY NOTED ELSEWHERE.
    - B. HDPE PIPE: HDPE PIPE SHALL MEET THE REQUIREMENTS OF AWWA C906.
    - C. CARBON STEEL PLATE: ASTM A572 GR. 50.
    - D. PIPE FITTINGS: FITTINGS FOR STEEL PIPE SHALL MEET THE REQUIREMENTS OF ASTM A234 AND SHALL HAVE A MINIMUM WORKING PRESSURE RATING OF 250 PSI.
    - E. BOLTED, SLEEVE-TYPE COUPLINGS FOR PLAIN-END PIPE: BOLTED, SLEEVE TYPE COUPLINGS, REDUCING OR TRANSITION COUPLINGS, AND FLANGED COUPLING ADAPTERS USED TO JOIN PLAIN END PIPE SHALL MEET THE REQUIREMENTS OF AWWA C219.
    - F. VALVES, GENERAL: PROVIDE VALVES WITH OPERATING NUTS OR HAND WHEELS AS SPECIFIED OR SHOWN. FURNISH A STANDARD 2 INCH OPERATING NUT. WHEN INDICATED, COAT ALL INTERIOR AND EXTERIOR FERROUS SURFACES OF VALVES WITH A PROTECTIVE EPOXY COATING MEETING THE REQUIREMENTS OF AWWA C550.
3. BUTTERFLY VALVES:
    - A. SEATS AND SEALS - PROVIDE BUTTERFLY VALVES THAT ARE RUBBER SEATED AND MEET THE REQUIREMENTS OF AWWA C504, CLASS 150B. SHAFT SEALS SHALL BE STANDARD O-RING SEALS, DESIGNED FOR REPLACEMENT UNDER LINE PRESSURE.
    - B. VALVE OPERATORS - PROVIDE VALVE OPERATORS OF THE TRAVELING NUT OR WORM GEAR TYPE AND THAT ARE SEALED, GASKETED, AND PERMANENTLY LUBRICATED FOR BURIED SERVICE. CONSTRUCT VALVE OPERATORS TO THE STANDARD OF THE VALVE MANUFACTURER TO WITHSTAND ALL ANTICIPATED OPERATING TORQUES, AND DESIGN TO RESIST SUBMERGENCE IN GROUNDWATER. VALVES SHALL OPEN COUNTERCLOCKWISE
4. CHECK VALVES: CHECK VALVES SHALL BE RUBBER FLAPPER STYLE. THE MINIMUM DESIGN WORKING PRESSURE SHALL BE 250 PSI FOR CHECK VALVES WITH DIAMETERS OF 12 INCHES AND SMALLER. CHECK VALVES SHALL BE NON-ASSISTED, UNLESS OTHERWISE INDICATED.
5. COMBINATION AIR RELEASE/AIR VACUUM VALVES - FURNISH COMBINATION AIR RELEASE/AIR VACUUM VALVES THAT MEET THE REQUIREMENTS OF AWWA C512. THE VALVE BODY SHALL HAVE A MINIMUM DESIGN WORKING PRESSURE OF 300 PSI. THE BODY AND COVER SHALL BE CAST IRON CONFORMING TO ASTM A48, CLASS 30. FLOATS SHALL BE STAINLESS STEEL CONFORMING TO ASTM A240 AND DESIGNED TO WITHSTAND 1,000 PSI. SEATS SHALL BE BUNA-N RUBBER. INTERNAL PARTS SHALL BE STAINLESS STEEL OR BRONZE.
6. HANDLING, STORAGE, AND INSTALLATION:
    - A. INSTALL ALL MATERIALS IN ACCORDANCE WITH THE APPLICABLE REFERENCE STANDARD(S) AND MANUFACTURER RECOMMENDATIONS.
    - B. HANDLE PIPE, FITTINGS, AND ACCESSORIES IN ACCORDANCE WITH AWWA C604.
    - C. PROVIDE THREADED HOLES AND/OR LIFTING LUGS AS APPLICABLE FOR ALL FABRICATED COMPONENTS.
7. JOINTS:
    - A. WHERE WELDED JOINTS ARE SPECIFIED, PROVIDE BUTT JOINTS IN ACCORDANCE WITH ANSI/AWWA C206 EXCEPT AS OTHERWISE NOTED.
    - B. WHERE FLANGED JOINTS ARE SPECIFIED, FLANGES SHALL CONFORM TO AWWA C207. PROVIDE GASKETS FOR JOINTS THAT ARE COMPOSED OF SYNTHETIC RUBBER, FULL FACED, 1/8-INCH THICK, AND CONFORM TO ANSI/AWWA C111/A21.1. RING GASKETS WILL BE PERMITTED ONLY WHERE SPECIFIED OR SHOWN. THE TYPE, MATERIAL AND IDENTIFICATION MARK FOR BOLTS AND NUTS SHALL BE PROVIDED.
8. WELDING:
    - A. WELDING SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED IN AWS D 1.1 AND ANSI/AWWA C206.
    - B. ELECTRODE STRENGTH SHALL MEET OR EXCEED THE STRENGTH OF THE BASE MATERIAL.
    - C. SUBMIT WELDING PROCEDURE QUALIFICATIONS AND PROCEDURE QUALIFICATION RECORDS FOR ALL WELDING FOR THE PROJECT.
    - D. SUBMIT WELDING PERFORMANCE QUALIFICATION RECORDS AND CONTINUITY RECORDS FOR EACH WELDER.
    - E. TESTING: TO BE DETERMINED BASED ON OWNER PREFERENCE.
9. POLYETHYLENE TAPE COATING SYSTEM FOR FABRICATED STEEL COMPONENTS:
    - A. SURFACE PREPARATION: SSPC-SP6 BLAST CLEANING.
    - B. POLYKEN TECHNOLOGIES OR OWNER APPROVED EQUIVALENT. COATING SYSTEM SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
        - I. PRIMER: POLYKEN 1019
        - II. INTERMEDIATE: 955-30 GRAY
        - III. OUTER LAYER TAPE: 956-30 WHITE
10. PIPE SUPPORTS
    - A. PIPE SUPPORTS AND HANGERS TO BE PLACED AT LEAST EVERY 7 FEET FOR PIPING 1 1/2" AND BELOW.
    - B. PIPE SUPPORTS AND HANGERS TO BE PLACED AT LEAST EVERY 10 FEET FOR PIPING 2" AND ABOVE.

811 Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1982 CHARLES W. CUTTING 10/17/25

EXPIRES: 12/31/2025

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

GENERAL
PROJECT NOTES (1)

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
-	BJL	CM	5002-001	10-17-25	100-03

3" 2" 1" 0 22x34 = FULL SCALE
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CONCRETE NOTES

1. SURFACE PREPARATION:

   A. ALL LOOSE ROCK, CONCRETE, AND SOIL SHALL BE REMOVED PRIOR TO CONSTRUCTION. REMOVE ANY GREASE, OIL OR OTHER COATINGS ON ANY EXISTING SURFACE.

   B. WHEN CONCRETE IS PLACED DIRECTLY AGAINST ROCK SURFACES, THE SURFACE SHALL BE CLEANED WITH HIGH-PRESSURE WATER TO REMOVE ALL DIRT OR LOOSE MATERIAL.

   C. SURFACE PREPARATION OF EXISTING CONCRETE AND MASONRY SURFACES SHALL REMOVE ALL LOOSE OR DETERIORATED MATERIAL AND VEGETATION. ACCEPTABLE METHODS INCLUDE SANDBLASTING, MECHANICAL CHIPPING, OR HIGH-PRESSURE WATER BLAST (6000 PSI MINIMUM PRESSURE).

2. CONCRETE:

   A. ALL WORK SHALL CONFORM TO ACI 318, ACI 301 AND ACI 347, LATEST EDITIONS.

   B. SPECIFICATIONS:

   C. CLASS I - 4,000 PSI CONCRETE

      I. FOR THRUST BLOCKS, GENERATOR PAD, TRANSFORMER PAD AND MISCELLANEOUS CONCRETE.

      II. CLASS I CONCRETE SHALL BE DESIGNED PER ACI 350, LATEST EDITION. ALL CONCRETE WORK DESIGNATED CLASS 1 SHALL CONFORM TO ACI 350.5 SPECIFICATION FOR ENVIRONMENTAL CONCRETE STRUCTURES, LATEST EDITION, AS MODIFIED BY THESE PROJECT SPECIFICATIONS.

      III. MAXIMUM WATER/CEMENT RATIO = 0.55.

      IV. DO NOT USE ASTM C150 TYPE III CEMENT. USE MODERATE HEAT-OF-HYDRATION PORTLAND CEMENT; BLENDED HYDRAULIC CEMENT WITH MODERATE OR LOW HEAT-OF-HYDRATION PROPERTIES; OR PORTLAND CEMENT WITH CLASS F FLY ASH. THE MAXIMUM TOTAL SUBSTITUTION OF PORTLAND CEMENT SHALL NOT EXCEED 50%, INCLUDING THE AMOUNT OF BLENDED CEMENT.

      V. TO HELP REDUCE THE HEAT OF HYDRATION FOR THE CONCRETE MIXTURE, THE MIXTURE MAY BE PROPORTIONED TO REACH A MINIMUM STRENGTH OF 3500 PSI AT 56 DAYS POST PLACEMENT. IF THE CONCRETE MIXTURE IS BASED ON A 56-DAY COMPRESSIVE STRENGTH, WET CURE CONCRETE FOR 14 DAYS MINIMUM AND DO NOT APPLY LOADS TO NEW CONCRETE FOR AT LEAST 14 DAYS UNLESS APPROVED BY THE ENGINEER. USE WATER WITH A TEMPERATURE NO MORE THAN 20°F COOLER THAN CONCRETE TEMPERATURE TO AVOID THERMAL SHOCK.

      VI. AIR CONTENT PROVIDED BY AIR ENTRAINMENT ADMIXTURE 4% TO 5% AS MEASURED BY ASTM C231.

      VII. 2" STONE AGGREGATE MIX ACCEPTABLE.

      VIII. SLUMP 3" TO 4".

      IX. WATER REDUCING ADMIXTURE MAY BE USED AT THE OPTION OF THE CONTRACTOR.

      X. ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.

      XI. MASS CONCRETE PLACEMENT REQUIREMENTS:

         A. UNLESS OTHERWISE PERMITTED OR SPECIFIED, THE TEMPERATURE OF THE CONCRETE WHEN DEPOSITED AT THE POINT OF PLACEMENT SHALL NOT EXCEED 70°F, OR BE LESS THAT 35°F.

         B. KEEP FORMS AND EXPOSED CONCRETE CONTINUOUSLY WET DURING THE CURING PERIOD WHENEVER THE SURROUNDING AIR TEMPERATURE IS ABOVE 90°F.

         C. COOL THE CONCRETE GRADUALLY SO THAT THE DROP IN CONCRETE SURFACE TEMPERATURE DURING AND AT THE CONCLUSION OF THE SPECIFIED CURING PERIOD DOES NOT EXCEED 120°F IN ANY 24-HOUR PERIOD.

         D. THE MAXIMUM IN-PLACE CONCRETE TEMPERATURE LIMIT FOR MASS CONCRETE SHALL BE 160°F. WHEN THE ADIABATIC TEMPERATURE RISE INDICATES THAT THE EXPECTED INTERNAL TEMPERATURE WILL EXCEED 160°F AND WHEN REQUIRED, PROVIDE THERMAL INSTRUMENTATION. TAKE TEMPERATURE READINGS AT THE CENTER OF THE PLACEMENT AND WITHIN 4 INCHES OF EACH PLANE SURFACE.

         E. CONCRETE TEMPERATURE DIFFERENTIAL IS DEFINED AS THE DIFFERENCE IN MEASURED TEMPERATURE AT THE CORE OF THE MEMBER AND THE MEASURED TEMPERATURE AT THE SURFACE. NO MAXIMUM IN-PLACE CONCRETE TEMPERATURE DIFFERENTIAL IS REQUIRED; HOWEVER, THE CONTRACTOR SHALL TAKE CARE TO PRODUCE A MASS CONCRETE PLACEMENT FREE OF CRACKS CAUSED OR WORSENED BY CONCRETE HEAT OF HYDRATION. ACCOMPLISH THIS THROUGH APPROPRIATE CONCRETE MIX DESIGN AND CONTROL OF CONCRETE TEMPERATURES AND TEMPERATURE DIFFERENTIAL (RECOMMEND MAX. DIFFERENTIAL OF 35 DEG.). USE OF CONCRETE PRE-COOLING, CONCRETE POST-COOLING, APPLICATION OF INSULATION OR EXTERNAL HEAT, AND/OR SELECTION OF REDUCED HEAT OF HYDRATION CONCRETE MAY BE APPROPRIATE FOR THIS PURPOSE. THE CONTRACTOR SHALL MONITOR THE CONCRETE TEMPERATURE DIFFERENTIAL AND REPORT ANY EXCEEDING OF 35 DEG.

   D. CLASS II - 5,000PSI CONCRETE

      I. STRUCTURAL CONCRETE USED IN THE PUMP HOUSE AND INTAKE STRUCTURE FOR ALL CONCRETE MEMBERS (U.N.O.).

      II. THE CLASS II CONCRETE SHALL BE DESIGNED PER ACI 318, LATEST EDITION. ALL CONCRETE WORK ON THE CONTROL BUILDING SHALL CONFORM TO ACI 301 SPECIFICATION FOR STRUCTURAL CONCRETE, LATEST EDITION, AS MODIFIED BY THESE PROJECT SPECIFICATIONS.

      III. MAXIMUM WATER/CEMENT RATIO = 0.45.

      IV. AIR CONTENT PROVIDED BY AIR ENTRAINMENT ADMIXTURE 5% TO 7% AS MEASURED BY ASTM C231.

      V. SLUMP 3" TO 4".

      VI. WATER REDUCING ADMIXTURE MAY BE USED AT THE OPTION OF THE CONTRACTOR.

      VII. FLYASH MAY BE USED AT THE OPTION OF THE CONTRACTOR.

      VIII. ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.

      IV. 3/4" MIX STONE AGGREGATE.

   E. DO NOT PLACE CONCRETE AGAINST ACTIVE LEAKS OR SEAMS WITH FLOWING WATER. STOP FLOW OR INSTALL DRAINAGE TO DIVERT FLOW AWAY FROM FRESH CONCRETE.

   F. CURE CONCRETE FOR 7 DAYS MINIMUM. DO NOT APPLY LOADS TO NEW CONCRETE FOR AT LEAST 28 DAYS UNLESS APPROVED BY THE ENGINEER

3. REINFORCEMENT:

   A. ASTM A615 GRADE 60

   B. FIELD BEND REINFORCING BARS TO CLEAR BOXOUTS AND PIPES WHERE REQUIRED. NO CUTTING OF REINFORCEMENT BARS SHALL BE DONE WITHOUT PRIOR APPROVAL OF ENGINEER.

      I. SPLICES: LENGTH SHALL BE PER REINFORCEMENT DEVELOPMENT SCHEDULE. SPLICES SHALL BE ACI CLASS B UNLESS NOTED OTHERWISE.

      II. DOWELS: PER REINFORCEMENT DEVELOPMENT SCHEDULE. PROVIDE DOWELS OF SIZE AND DIMENSION SHOWN. CLEAN DRILL HOLES WITH AIR PRESSURE TO REMOVE DUST AND STANDING WATER. HOLES MAY BE DAMP. GROUT SHALL BE NON-SHRINK PROPRIETARY CEMENT GROUT (4,000 PSI MINIMUM), OR EPOXY GROUT, AT CONTRACTOR'S OPTION. SELECTED GROUT MUST BE SUITABLE FOR USE IN WET HOLES. INSTALL PER MANUFACTURER'S INSTRUCTIONS. ENSURE THAT HOLES ARE COMPLETELY FILLED WITH GROUT. WHERE SURFACES ARE VERTICAL, INSTALL DOWELS WITH SLOPE DOWNHILL OR USING MANUFACTURER'S STANDARD HOLE STOPPER AND INJECTION SYSTEM.

      III. HOOKS: HOOKS IN BARS SHALL BE DIMENSIONED AND BENT PER ACI STANDARD HOOKS

      IV. REBAR COVER: WET WELL: 3", EXPOSED WALL OR SLAB: 3", INTERIOR WALL OR SLAB: 2"

      V. CONCRETE ANCHORS: HILTI "HAS" ADHESIVE ANCHOR OR APPROVED EQUAL. INSTALL TO THE DEEPER OF THE DEPTH SHOWN ON THE DRAWINGS OR THE MANUFACTURERS MINIMUM RECOMMENDED DEPTH.

      VI. CONTRACTOR MY PROPOSE ADDITIONAL SPLICE LOCATIONS TO BE APPROVED BY OWNER.

4. FORMWORK AND CONSTRUCTION JOINTS:

   A. CONSTRUCT FORMS TRUE TO LINE AND GRADE, ADEQUATELY BRACED TO MAINTAIN POSITION DURING PLACEMENT OF CONCRETE. WELDING OF FORM TIES TO STRUCTURAL DOWELS IS NOT PERMITTED, THOUGH ADDITIONAL DOWELS MAY BE INSTALLED FOR THAT PURPOSE.

   B. PROVIDE 3/4" CHAMFER ON ALL EXPOSED EDGES UNLESS NOTED OTHERWISE.

   C. REPAIR ALL AIR HOLES AND VOIDS LARGER THAN 1/4" AND FILL ALL TIE HOLES. REMOVE FINS AND PROJECTIONS.

   D. CONSTRUCTION JOINTS SHOWN SHALL BE LOCATED AS SHOWN UNLESS OTHERWISE APPROVED BY THE ENGINEER. ADDITIONAL JOINTS MAY BE USED, WHERE THE STRENGTH AND DURABILITY OF THE STRUCTURE IS NOT AFFECTED AND ARE SUBJECT TO THE REVIEW OF THE ENGINEER. IF CONTRACTOR PROPOSES CONSTRUCTION JOINT LOCATIONS DIFFERENT FROM THOSE SHOWN ON DRAWINGS, CONTRACTOR SHALL SUBMIT LOCATION OF ANY PROPOSED CONSTRUCTION JOINT TO ENGINEER FOR REVIEW.

   E. REINFORCEMENT SHALL BE CONTINUOUS THRU JOINT, UNLESS NOTED OTHERWISE.

   F. CLEAN ALL JOINTS TO REMOVE LAITANCE WITH MIN. 1500 PSI WATER BLAST OR SANDBLASTING PRIOR TO NEXT CONCRETE PLACEMENT. MECHANICAL ROUGHENING IS AN ACCEPTABLE ALTERNATE FOR LAITANCE REMOVAL. ACID CLEANING/REMOVAL OF LAITANCE IS NOT ACCEPTABLE.

   G. SATURATE JOINT IMMEDIATELY PRECEDING AND 12 HOURS PRIOR TO NEXT CONCRETE PLACEMENT. REMOVE ALL STANDING WATER.

   H. MAXIMUM HORIZONTAL C.J. SPACING IS 12 FEET (U.N.O.).

   I. MAXIMUM VERTICAL C.J. SPACING IS 35 FEET (U.N.O.).

5. PROVIDE WATERSTOP TO PREVENT WATER MIGRATION IN JOINTS REACHING THE EXTERIOR OF THE BUILDING BELOW FLOOD LEVELS, BEDROCK SURFCES, OR THE WATER PASSAGES OF THE STRUCTURE AND OTHER AREAS SHOWN. SEE WATERSTOP DETAILS ON SHEET 350-02.

6. VERTICAL CONCRETE SURFACES SHALL HAVE A SMOOTH FORMED FINISH. HORIZONTAL CONCRETE SURFACES SHALL HAVE A SMOOTH RUBBED FINISH (U.N.O.), EXCEPT WALKING SURFACE SHALL HAVE BROOM FINISH.

7. WATERSTOPS, SEE DETAILS AND NOTES IN SHEET 350-02.

8. PLACE CONCRETE IN LIFTS NOT GREATER THAN 18 INCHES TO AVOID INCLINED HORIZONTAL CONSTRUCTION JOINT. PLACE EACH LIFT, WHEN SEVERAL LIFTS, WHILE PRECEDING LAYER IS STILL PLASTIC TO AVOID COLD JOINTS.

4,000PSI Concrete - Rebar Development Table

Bar	Diameter (in)	Straight Bar Development Length l_d (top bars)	Standard Hook l_{dh} (ψ_c = 0.7)	Class B Splice
3	0.38	12	6	15
4	0.50	16	7	26
5	0.63	21	9	38
6	0.75	30	11	51
7	0.88	51	13	83
8	1.00	66	14	103
9	1.13	84	16	124
10	1.27	106	18	150

For other bars (not top bars), multiply straight bar development lengths by 0.7
For Class A lap splices, divide Class B splice lengths by 1.3

Table assumes 2" of cover and >2d_b bar spacing, no supplementary reinforcement
Hooks assume side cover (normal to plane of hook) =>2.5" and 2" cover on 90 deg bar extension

5,000PSI Concrete - Rebar Development Table

Bar	Diameter (in)	Straight Bar Development Length l_d (top bars)	Standard Hook l_{dh} (ψ_c = 0.7)	Class B Splice
3	0.38	11	6	14
4	0.50	14	6	23
5	0.63	18	8	33
6	0.75	26	9	45
7	0.88	45	11	73
8	1.00	58	13	91
9	1.13	74	14	110
10	1.27	94	16	132

For other bars (not top bars), multiply straight bar development lengths by 0.7
For Class A lap splices, divide Class B splice lengths by 1.3

Table assumes 2" of cover and >2d_b bar spacing, no supplementary reinforcement
Hooks assume side cover (normal to plane of hook) =>2.5" and 2" cover on 90 deg bar extension

CONCRETE ANCHOR BOLTS

1. LABELED AS "ADHESIVE ANCHOR BOLTS" IN THE DRAWINGS. ANCHOR BOLTS SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS. THE CONTRACTOR SHALL ENGAGE A HILTI ANCHOR REPRESENTATIVE TO PROVIDE ON-SITE INSTALLATION TRAINING OF THE ANCHORING PRODUCTS SPECIFIED. THE OWNER/ENGINEER SHALL RECEIVE DOCUMENTED CONFIRMATION THAT THE RELEVANT CONTRACTOR'S PERSONNEL ARE TRAINED PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION WORK, AND SUCH DOCUMENTATION SHALL BE SUBMITTED TO THE OWNER/ENGINEER.

   A. RODS: ASTM F1554 GR. 55 THREADED RODS (UNLESS NOTED OTHERWISE).

   B. ADHESIVE: HIT-RE 500 V3 INJECTABLE MORTAR (UNLESS NOTED OTHERWISE).

BUILDING NOTES

1. BUILDING GOVERNING CODE:
   OREGON STRUCTURAL SPECIALTY CODE 2022
   BUILDING CATEGORY II

2. WIND DESIGN PARAMETERS IN ACCORDANCE WITH ASCE 7-16 AS MODIFIED BY OREGON STRUCTURAL SPECIALTY CODE 2019.

   A. BASIC WIND SPEED = 145 MPH

   B. INTERNAL PRESSURE COFFICIENT FOR ENCLOSED STRUCTURE qi=+/- 0.18
   C. WIND EXPOSURE = EXPOSURE C

   D. VELOCITY WIND PRESSURE: 48.9 PSF

   E. WIND LOAD IMPORTANCE FACTOR = 1.0

   F. MEAN ROOF HT : 376.56 FT

3. SEISMIC DESIGN PARAMETERS FOR UMATILLA, OR (DESIGN SPECTRAL ACCELERATION PARAMETERS PER GEOTECH REPORT BY GEOPROFESSIONAL INNOVATIONS, DECEMBER 23, 2024):

   A. FOR SITE CLASS B (FOUNDATIONS BEARING DIRECTLY ON BASALT BEDROCK)

      I. SDS = 0.238

      II. SD1 = 0.081

      III. SEISMIC RISK CATEGORY III

      IV. SITE CLASS B F

   B. FOR SITE CLASS C (FOUNDATIONS BEARING ON SILTY ALLUVIUM)

      I. SDS = 0.343

      II. SD1 = 0.151

      III. SEISMIC RISK CATEGORY III

      IV. SITE CLASS C

   C. FOR INTAKE STRUCTURE AND PUMP HOUSE : RESPONSE MODIFICATION FACTOR (R) = 4.0 (A2: ORDINARY REINFORCEMENT CONCRETE SHEAR WALLS, A7 SPECIAL REINFORCED MASONRY SHEAR WALLS). ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE.

4. LOADING:

   A. ROOF DEAD LOAD = 15 PSF

   B. ROOF LIVE LOAD = 20 PSF, ROOF CONCENTRATED LIVE LOAD = 300 LBS

   C. OPERATING DECK DEAD LOAD = 260 PSF

   D. OPERATING DECK LIVE LOAD = 200 PSF

   E. OPERATING DECK POINT LOAD = 2000 LBS

   F. GROUND SNOW LOAD = 20 PSF

   G. COLLATERAL DEAD LOAD = 10 PSF

   H. FORKLIFT LOAD = 6,500 LBS

REGISTERED PROFESSIONAL ENGINEER
15872
OREGON
MAY 19, 1982
CHARLES W. CUTTING
10/17/25
EXPIRES: 12/31/2025

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No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

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-	BJL	CM	5002-001	10-17-25	100-04

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

GENERAL
PROJECT NOTES (2)

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22x34 = FULL SCALE
3" 2" 1" 0

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3"
2"
1"
0
22x34 = FULL SCALE

REINFORCED CONCRETE MASONRY

1. CONCRETE MASONRY UNITS SHALL COMPLY WITH ASTM C90, MEDIUM WEIGHT, SAMPLED AND TESTED IN ACCORDANCE w/ ASTM C140. LINEAL SHRINKAGE FOR UNITS SHALL NOT EXCEED 0.065%. BLOCK COMPRESSIVE STRENGTH SHALL BE AS INDICATED IN BELOW TABLE. ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f 'm) AS INDICATED IN BELOW TABLE AS VERIFIED BY THE UNIT STRENGTH METHOD CONFORMING TO OSSC SECTION 2105. WALLS SHALL BE REINFORCED AS SHOWN ON THE PLANS AND DETAILS AND, IF NOT SHOWN, SHALL BE AS NOTED UNDER "MASONRY REINFORCING STEEL". PROVIDE VERTICAL EXPANSION JOINTS IN CONTINUOUS MASONRY SUCH THAT THE DISTANCE BETWEEN JOINTS DOES NOT EXCEED THE LESSER OF A LENGTH-TO-HEIGHT RATIO OF 1.5 OR 25 FT. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

CONCRETE MASONRY ASSEMBLY STRENGTH

f'm (PSI)	BLOCK UNIT STRENGTH (PSI)	GROUT STRENGTH (PSI)	MORTAR
2,000	2,800	2,000	TYPE M OR S

2. MORTAR:
   A. MORTAR SHALL BE OF THE TYPE INDICATED IN THE PRECEDING TABLE, WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 1,800 PSI AND SHALL CONFORM TO OSSC SECTION 2103.
3. MASONRY GROUT:
   A. GROUT SHALL HAVE COMPRESSIVE STRENGTH AS INDICATED IN THE PRECEDING TABLE AND SHALL CONFORM TO OSSC SECTION 2103. GROUT SHALL CONSIST OF A MIXTURE OF CEMENTITIOUS MATERIALS AND AGGREGATE TO WHICH SUFFICIENT WATER HAS BEEN ADDED TO CAUSE THE MIXTURE TO FLOW WITHOUT SEGREGATION OF THE CONSTITUENTS. ALL CELLS CONTAINING VERTICAL BARS AND ALL BOND BEAMS SHALL BE FILLED WITH GROUT. FULLY GROUT ALL STRUCTURAL MASONRY WALLS UNLESS NOTED OTHERWISE.
   B. THE MAXIMUM GROUT POUR HEIGHT SHALL BE 12'-8". CLEAN-OUTS ARE REQUIRED FOR ANY POUR HEIGHT GREATER THAN 5'-4", WHERE REQUIRED, CLEAN-OUTS SHALL BE LOCATED AT ALL CORES CONTAINING VERTICAL REINFORCEMENT AND AT A MAXIMUM OF 32" O.C. GROUT LIFTS GREATER THAN 5'-4" ARE LIMITED IN HEIGHT TO THE BOTTOM OF THE LOWEST BOND BEAM THAT IS MORE THAN 5'-4" ABOVE THE BOTTOM OF THE LIFT, PROVIDED THAT: 1) THE MASONRY HAS CURED FOR AT LEAST 4 HOURS, AND 2) THE GROUT SLUMP IS MAINTAINED BETWEEN 10 AND 11 INCHES. IF EITHER OF THESE TWO CONDITIONS ARE NOT MET, THEN THE MAXIMUM LIFT HEIGHT SHALL BE 5'-4". REFERENCE TYPICAL MASONRY DETAILS.
4. MASONRY REINFORCING STEEL:
   A. REINFORCING SHALL CONFORM TO OSSC SECTION 2103.14. DEFORMED BARS SHALL BE ASTM A615 GRADE 60, AND SHALL BE SECURELY PLACED IN ACCORDANCE WITH ACI 530.1-11 SPECIFICATION SECTION 3.4. WELDED REINFORCEMENT SHALL CONFORM TO ASTM A706 GRADE 60. UNLESS NOTED OTHERWISE ON THE PLANS, THE MINIMUM WALL REINFORCEMENT SHALL BE AS FOLLOWS:

RUNNING BOND PATTERN

WALL THICKNESS	VERTICAL BARS	HORIZONTAL BARS (IN BOND BEAMS)
8"	#5 @ 24" o.c.	#5 @ 48" o.c.

   B. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315. SHOP DRAWINGS SHALL INCLUDE ELEVATIONS OF ALL STRUCTURAL CMU WALLS SHOWING LOCATIONS OF BOND BEAMS, BARS, AND OTHER SPECIAL REINFORCEMENT.
   C. BOND BEAMS WITH TWO #5 BARS HORIZONTALLY SHALL BE PROVIDED AT ALL FLOOR AND ROOF LINES AND AT THE TOP OF WALLS. STEP BOND BEAMS AS REQUIRED TO MATCH ROOF SLOPES. PROVIDE A BOND BEAM WITH TWO #5 BARS HORIZONTALLY ABOVE AND BELOW ALL OPENINGS, AND EXTEND THESE BARS 2'-6" PAST THE OPENING AT EACH SIDE. PROVIDE ONE BAR, MATCHING VERTICAL BAR SIZE, FOR THE FULL HEIGHT OF THE WALL AT EACH SIDE OF OPENINGS, WALL ENDS, AND INTERSECTIONS. DOWELS TO MASONRY WALLS SHALL BE EMBEDDED A MINIMUM OF 1'-0" OR HOOKED INTO THE SUPPORTING STRUCTURE AND BE OF THE SAME SIZE AND SPACING AS WALL REINFORCING. PROVIDE CORNER BARS TO MATCH THE HORIZONTAL WALL REINFORCING AT WALL INTERSECTIONS. LAP ALL REINFORCING BARS AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
5. REBAR LAPS:

TYP. LAP SPLICE LENGTH SCHEDULE (IN.)

f'm=2,000 PSI	CASE 1	CASE 2
BAR SIZE	ALL BLOCK	8" BLOCK
#3	16	15
#4	29	20
#5	45	25
#6	54	30
#7	63	40
#8	72	61
#9	81	78

   A. CASE 1: BARS LOCATED NEAR THE FACE OF BLOCK WITH ONLY MINIMUM COVER OR CELLS WITH MORE THAN (1) BAR.
   B. CASE 2: SINGLE BARS LOCATED AT THE CENTER OF A CELL.
   C. FOR EPOXY COATED BARS, MULTIPLY LAP LENGTHS BY 1.5.
   D. MAXIMUM OF (2) BARS IN (1) CELL ((4) AT LAP SPLICE.).
   E. AT CONTRACTOR'S OPTION: PROVIDE MECHANICAL SPLICES FOR #8 AND #9 BARS.
   F. STAGGER HORIZONTAL BOND BEAM LAP SPLICES 24" MIN.
6. REINFORCING STEEL COVER:

REINFORCING STEEL COVER

USE	MINIMUM COVER (TO OUTSIDE FACE OF MASONRY)
MASONRY FACE NOT EXPOSED TO EARTH OR WEATHER	1 1/2"
MASONRY FACE EXPOSED TO EARTH OR WEATHER	1 1/2" (#5 AND SMALLER)
	2" (#6 AND LARGER)

7. MASONRY ACCESSORIES
   A. ALL ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. REINFORCING IN NEW OR EXISTING MASONRY SHALL NOT BE CUT DURING INSTALLATION. ALL ANCHORS EXPOSED TO EARTH OR WEATHER SHALL BE PROTECTED FROM CORROSION BY HOT-DIP GALVANIZING OR USE OF STAINLESS STEEL.

MASONRY ANCHORS

TYPE	APPROVED ANCHORS
EXPANSION	HILTI KWIK BOLT 3 (ICC ESR-1385)
SCREW	HILTI HUS-EZ (ICC ESR-3056)
EPOXY ADHESIVE	HILTI HIT HY-70 (ICC ESR-2682)

NOTE:
1. MINIMUM GROUT COVER BETWEEN REINFORCEMENT AND INSIDE FACE OF CELL SHALL BE 1/4" FOR FINE GROUT AND 1/2" FOR COURSE GROUT.

METAL NOTES

1. STRUCTURAL STEEL DESIGN STANDARD - AISC SPECIFICATION FOR DESIGN AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, 15th EDITION, LRFD DESIGN METHOD.
   A. FABRICATE ALL STRUCTURAL STEEL AND WELDED STEEL IN ACCORDANCE WITH THE LATEST MANUAL OF STEEL CONSTRUCTION AND OTHER APPLICABLE CODES OF STANDARD PRACTICE.
   B. CONNECTIONS SHALL BE SHOP WELDED AND FIELD BOLTED UNLESS NOTED OTHERWISE.
   C. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF 2 BOLTS, MINIMUM BOLT SIZE 3/4" DIA. UNLESS NOTED OTHERWISE. PROVIDE NUTS & WASHERS UNLESS NOTED OTHERWISE. BOLTS, NUTS & WASHERS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED.
   D. ALL STRUCTURAL AND MISCELLANEOUS STEEL MEMBERS EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.
   E. ALL FASTENERS AND HARDWARE SHALL BE GALVANIZED PER ASTM-A153, UNLESS NOTED OTHERWISE.
2. MATERIAL PROPERTIES:
   A. STEEL BARS, PLATES, ANGLES AND CHANNELS AND OTHER SHAPES, UNLESS NOTED OTHERWISE - ASTM A36.
   B. STRUCTURAL STEEL W SHAPES - ASTM A992, GRADE 50 STEEL.
   C. ALUMINUM - 6061-T6
   D. BOLTS - 3/4" ASTM A325 FOR INTERIOR APPLICATIONS, OR 304 SS FOR EXPOSED APPLICATIONS
   E. PIPING - ASTM A53, GRADE B. (UP TO 26"Ø)
      ASTM A139 GRADE C. MINIMUM Fy=36, Fu=58 (GREATER THAN 26"Ø)
   F. STRUCTURAL TUBING:
      I. HSS RECTANGULAR: ASTM A500 GR 46
      II. HSS ROUND: ASTM A500 GR 42
   G. WELD:
      I. STEEL PER AWS D1.1 MATCHING ELECTRODES TO STRENGTH OF BASE METALS.
      II. ALUMINUM PER AWS D1.2 USING 5356 FILLER ALLOY.
      III. ALL WELDS CONTINUOUS U.N.O.
   H. ADHESIVE ANCHOR BOLTS - HILTI, INC. HAS-E-55 ROD (OR EQUIV) WITH HIT-HY 200 EPOXY ADHESIVE OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. INSTALLED PER MANUFACTURERS INSTRUCTIONS, MINIMUM EMBEDMENT, AS SHOWN IN DETAILS.
   I. GRATING 19-W-4 HEAVY DUTY GALVANIZED STEEL GRATING AS NOTED ON DRAWINGS, BAND ALL ENDS.
   J. GROUT - NON-SHRINK TYPE, PRE-MIXED COMPOUND CONSISTING OF NON-METALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING ADDITIVES, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. FOR AREAS UNDERWATER USE SUBEC HYDRAULIC CEMENT OR APPROVED EQUAL.
   K. HEADED ANCHORS SHALL BE NELSON SHEAR STUDS, FLUX FILLED WELDING TO PLATES/FLANGES AS SHOWN ON DRAWINGS. STUDS SHALL BE MADE FROM COLD DRAWN STEEL GRADES TO I C -1010 THROUGH C – 1020 PER ASTM A-108 AND SHALL BE WELDED PER MANUFACTURES RECOMMENDATION. THRU WELD ON COMPOSITE DECKING.
3. COATINGS:
   A. ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL ASSOCIATED WITH THE PUMP HOUSE AND INTAKE STRUCTURE SHALL USE THE FOLLOWING COATING SYSTEM UNLESS NOTED OTHERWISE:
      I. SURFACE PREPARATION: SSPC- SP 10 NEAR WHITE BLAST CLEANING 1.0 MILL PROFILE.
      II. PUMP-HOUSE: POLYSET WB HRZS SINGLE COAT SYSTEM BY POLYSET, 6-8 MILS DFT.
      III. IF EMBEDDED IN CONCRETE: PLYSET WB HRZS SINGLE COAT SYSTEM, 3-4 MILS DFT.
         A. FOR STEEL AND MISCELLANEOUS METAL EMBEDDED IN CONCRETE: TO ACCELERATE THE FORMATION OF THE PAINT'S CERAMIC TYPE BARRIER ON THE STEEL, SPRAY PAINTED STEEL SURFACE IN CONTACT WITH CONCRETE WITH VINEGAR TO A WET SURFACE AND ALLOW TO DRY.
      IV. COATING SHALL BE APPLIED PER MANUFACTURERS INSTRUCTIONS.
   B. MASK OFF AND DO NOT PAINT WITHIN 3 INCHES OF A FIELD WELDED JOINT.
   C. PREP AND FIELD PAINT FIELD WELDS PER MANUFACTURERS RECOMMENDATIONS.
   D. GENERAL CONTRACTOR SHALL PROVIDE POLYSET WB HRZS SINGLE COAT SYSTEM FOR TOUCH UP PAINT.

SPECIAL INSPECTION

1. SPECIAL INSPECTION SHALL INCLUDE CONTINUOUS SPECIAL INSPECTION OR PERIODIC SPECIAL INSPECTION AS OUTLINED IN OREGON SPECIALTY CODE 2022 SECTION 1704 FOR STEEL, CONCRETE, AND MASONRY CONSTRUCTION AND SOILS.

GEOTECHNICAL NOTES

1. REFER TO GEOTECHNICAL ENGINEERING REPORT BY GEOPROFESSIONAL INNOVATION DATED JULY 20, 2023 PRIOR TO ANY WORK ON SITE. INFORMATION IDENTIFIED BELOW IS REFERENCED FROM THE GEOTECH REPORT AND IS NOT ALL ENCOMPASSING. REFER TO REPORT FOR INFORMATION NOTE PROVIDED.
2. IDENTIFY AND REMOVE LOOSE OR OTHERWISE UNSUITABLE SOIL FROM BENEATH PLANNED IMPROVEMENTS. WHERE SUCH FILL IS REMOVED, IT MUST BE REPLACED WITH STRUCTURAL FILL REFERENCING GEOTECH REPORT RECOMMENDATIONS PRIOR TO SUBGRADE PREPARATIONS OR PLACING ADDITIONAL FILL OR CONCRETE. EXCAVATED SITE SOIL MAY BE REUSED AS STRUCTURAL FILL, PROVIDED IT SATISFIES THE REPORT STRUCTURAL FILL REQUIREMENTS.
3. SITE SOIL TYPE:
   A. SOIL ABOVE BEDROCK: TYPE C (DRY)
   B. BEDROCK: TYPE B (WEATHERED BEDROCK THAT EXHIBITS CEMENTATION OR COHESION)
4. TEMPORARY SOIL EXCAVATION:
   A. TYPE C - SOIL EXCAVATION SLOPED BACK AT LEAST 1.5H:1V (HORIZONTAL OR VERTICAL) DURING DRY CONDITIONS.
   B. TYPE B - SLOPED 1H:1V.
   C. NO STOCKPILE MATERIAL ADJACENT TO OR WITHIN 10 FEET EXCAVATION
5. ALL FILL MUST BE PLACED AS COMPACTED AS STRUCTURAL FILL.
6. REFERENCE GEOTECH REPORT FOR SOIL FILL SPECIFICATIONS AND ALLOWABLE USED.
7. ALLOWABLE BEARING PRESSURE:
   A. COMPETENT BASALT BEDROCK: 10,000 PSF*
   B. GENERAL STRUCTURAL FILL: 4,000 PSF*
   C. * VALUES INCORPORATE SAFETY FACTOR OF 3.0. VALUES CAN BE INCREASED BY 33% FOR TRANSIENT LOAD (WIND, SEISMIC, IMPACT).
8. FROST PROTECTION EMBEDMENT DEPTH: MINIMUM 2'-0" BELOW FINISHED EXTERIOR SURFACE
9. LATERAL LOAD RESISTANCE:
   A. BASE FRICTION COEFFICIENT:
      I. 0.7 FOR ELEMENTS CASE DIRECTLY ON COMPETENT BEDROCK.
      II. 0.5 FOR FOUNDATIONS CAST DIRECTLY ON COMPACTED GRANULAR STRUCTURAL FILL
      III. REDUCE FRICTION BY 2/3 FOR PRECAST ELEMENTS.
      IV. VALUES ARE UNFACTORED.
   B. LATERAL PASSIVE RESISTANCE ON BACKFILLED SIDES = 400 PCF EQUIVALENT FLUID PRESSURE. DESIGN VALUES REQUIRES:
      I. ELEMENTS BACKFILLED WITH GENERAL STRUCTURAL FILL
      II. ¾" OF LATERAL MOVEMENT TO MOBILIZE FULL PASSIVE PRESSURE
      III. VALUE IS UNFACTORED.

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REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1982 CHARLES W. CUTTING 10/17/25
EXPIRES: 12/31/2025

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

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-	CRS	CM	5002-001	10-17-25	100-05

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

GENERAL
PROJECT NOTES (3)

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3"
2"
1"
0
22x34 = FULL SCALE

COLUMBIA RIVER

MCNARY BEACH
RECREATION AREA
PARKING LOT

LEWIS AND CLARK
TRAIL

NEW PUMP
STATION

EXISTING PUMP
STATION

PROJECT AREA

TWO RIVERS
CORRECTIONAL FACILITY

ROXBURY
ROAD

BUD
DRAPER
ROAD

BIG RIVER GOLF
COURSE

BEACH ACCESS ROAD

WANAPA ROAD

WATER TREATMENT
FACILITY

TO UMATILLA

U.S. 730
COLUMBIA RIVER HIGHWAY

TO WALLULA

PLAN
1" = 500'

500' 0 500' 1000'
SCALE IN FEET

LEGEND

PROPERTY LINE
WATERLINE
ACCESS ROUTE

Know what's below.
Call before you dig.

REGISTERED PROFESSIONAL ENGINEER
15872
OREGON
MAY 19, 1992
CHARLES W. CUTTING
10/17/25

EXPIRES: 12/31/2025

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
CM	BJL	CM	5002-001	10-17-25	120-01

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONSTRUCTION ACCESS AND STAGING
GENERAL ARRANGEMENT

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3"
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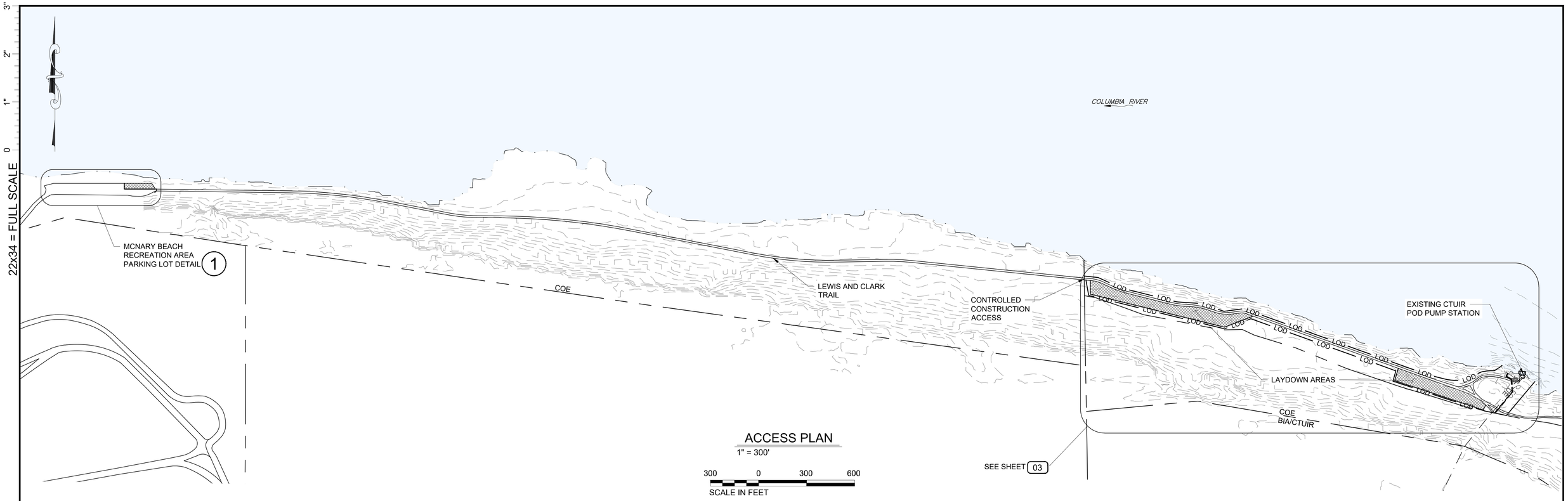
0
22x34 = FULL SCALE

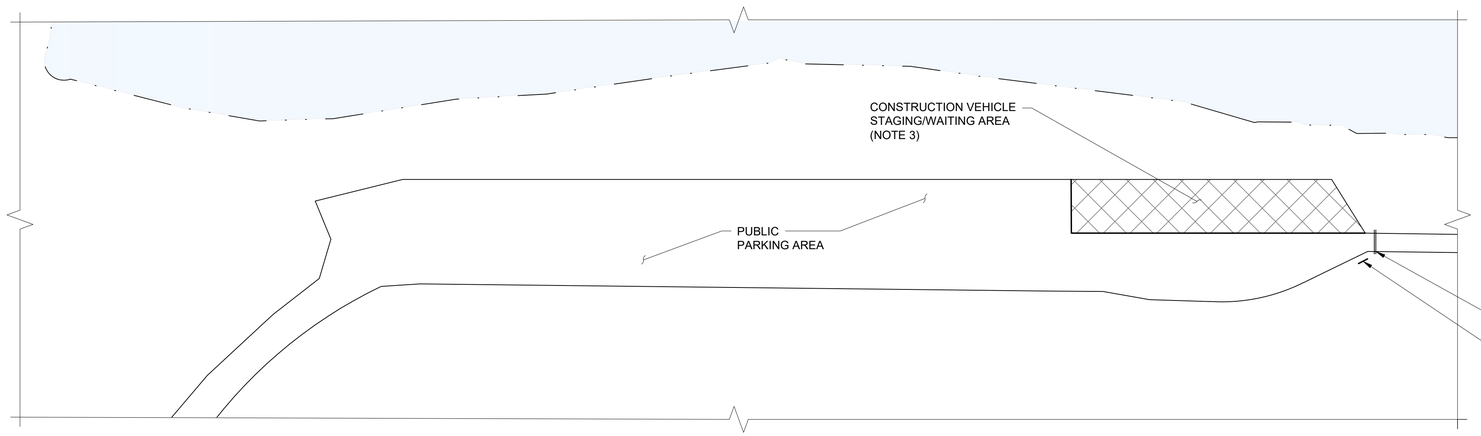


ACCESS PLAN

1" = 300'

300 0 300 600

SCALE IN FEET



MCNARY BEACH PARKING AREA DETAIL 1

1" = 50'

50' 0 50' 100'

SCALE IN FEET

NOTES:

1. THE ACCESS ROAD (THE LEWIS AND CLARK TRAIL) IS A PUBLIC TRAIL AND MUST REMAIN OPEN TO THE PUBLIC DURING CONSTRUCTION.
2. SPEED LIMIT ALONG THE LEWIS AND CLARK TRAIL IS 10 MPH.
3. CLEARLY DELINEATE VEHICLE STAGING/WAITING AREA. KEEP CENTER LANE OF PARKING AREA CLEAR FOR VEHICLE ACCESS AND PUBLIC ACCESS.
4. 4CONTRACTOR TO INSTALL OWNER-FURNISHED PROJECT SIGN. PROVIDE TWO PRESSURE TREATED 4X4 POSTS AND ATTACH SIGN. REMOVE AND DISPOSE OF POSTS AND SIGN AT COMPLETION OF CONSTRUCTION.

LEGEND

LOD —— LOD ——	LIMITS OF DISTURBANCE
————	PROPERTY LINE
————	WATERLINE
— — — —	EXISTING CANAL/PIPELINE

REGISTERED PROFESSIONAL ENGINEER
15872
OREGON
MAY 19, 1992
CHARLES W. CUTTING
10/17/25

EXPIRES: 12/31/2025

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
CM	BJL	CM	5002-001	10-17-25	120-02

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONSTRUCTION ACCESS AND STAGING PLAN

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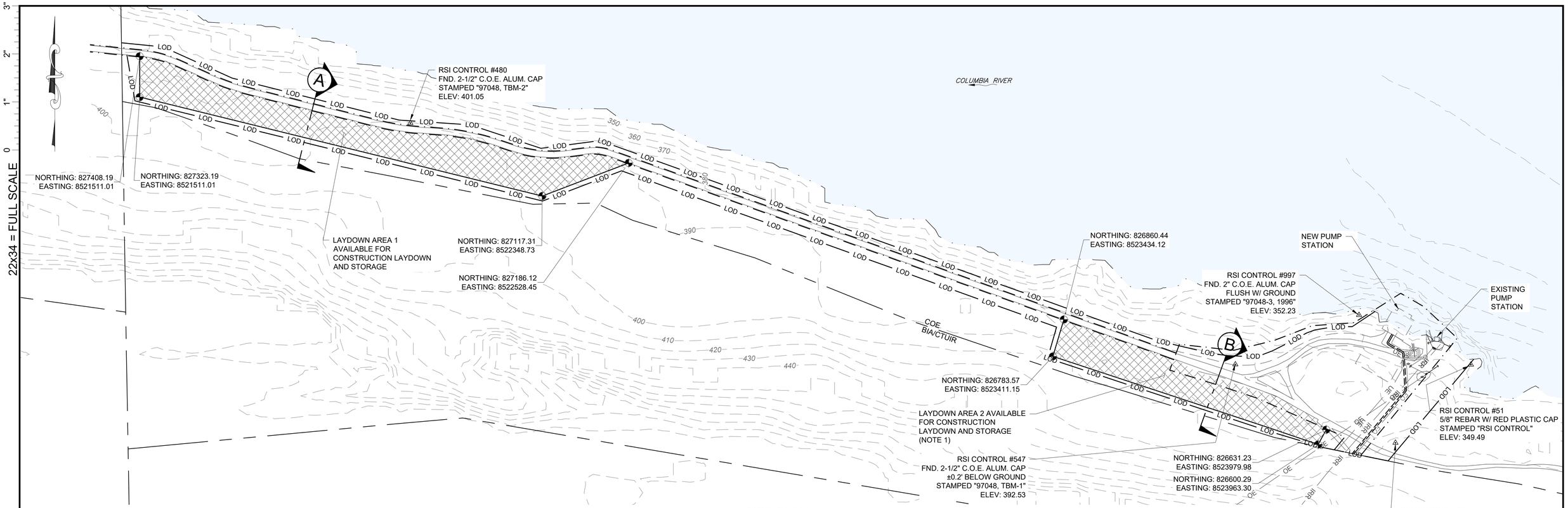
K:\Jobs\5002\001\Drawings\CAD\WORKING DRAWINGS\Joint Pump And Pipeline Project Design Set\5002001 120-02.dwg

22x34 = FULL SCALE

3" 2" 1" 0

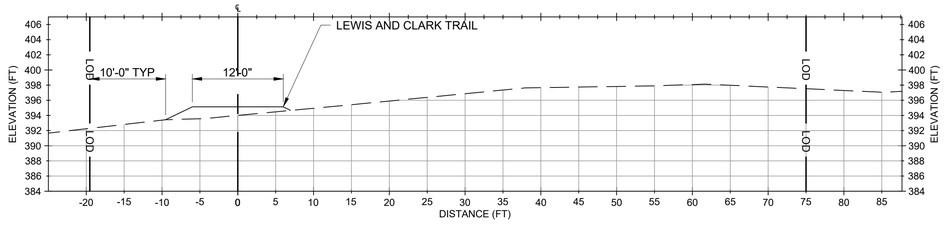


SITE PLAN

1" = 100'

100' 0 100' 200'

SCALE IN FEET

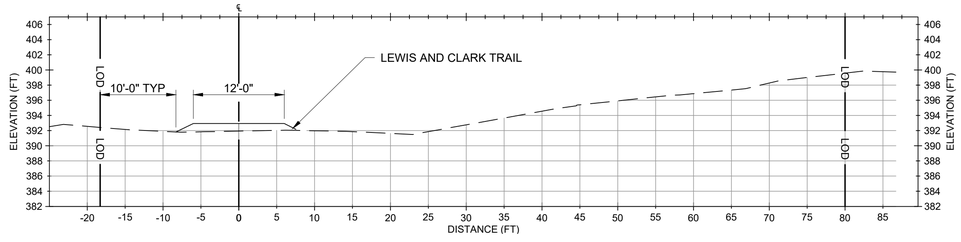


SECTION A

1" = 10'

10' 0 10' 20'

SCALE IN FEET



SECTION B

1" = 10'

Know what's below. Call before you dig.

LEGEND

LOD LOD	LIMITS OF DISTURBANCE
OE OE	EXISTING OVERHEAD ELECTRIC
UE UE	EXISTING UNDERGROUND ELECTRIC
	PROPERTY LINE
	WATERLINE
IRR IRR	EXISTING PIPELINE
	EASEMENT

NOTES:
1. LAYDOWN AREA 2 MAY BE SHARED WITH COU PIPELINE INSTALLATION CONTRACTOR.

REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1982 CHARLES W. CUTTING

10/17/25

EXPIRES: 12/31/2025

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CM	BJL	CM	5002-001	10-17-25	120-03

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONSTRUCTION ACCESS AND STAGING
SITE PLAN AND SECTIONS

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3"
2"
1"
0
22x34 = FULL SCALE

COLUMBIA RIVER

SEE PLAN THIS SHEET

EXISTING PUMP STATION

COE BIA/CTUIR

SITE PLAN

1" = 100'

100' 0 100' 200'

SCALE IN FEET

COLUMBIA RIVER

TEMPORARY COFFERDAM SEE 02

NEW PUMP STATION

NEW ACCESS ROAD AND PARKING AREA

LEWIS AND CLARK TRAIL

EXISTING PUMP STATION ROAD

EXISTING PUMP STATION

NEW BIO-RETENTION POND

COORDINATE EROSION AND SEDIMENT CONTROLS WITH PIPELINE CONTRACTOR

COE BIA/CTUIR

INTAKE AREA PLAN

1" = 50'

50' 0 50' 100'

SCALE IN FEET

LEGEND

TC	TURBIDITY CURTAIN
SB	SEDIMENTATION BARRIER
LOD	LIMITS OF DISTURBANCE
UE	NEW UNDERGROUND ELECTRIC
FO	NEW UNDERGROUND FIBER OPTIC
OE	EXISTING OVERHEAD ELECTRIC
UE	EXISTING UNDERGROUND ELECTRIC
	PROPERTY LINE
	WATERLINE
IRR	EXISTING PIPELINE
	EASEMENT
	EXISTING POWERPOLE

NOTES:
1. SHOWN ALIGNMENT OF SEDIMENTATION BARRIER IS A SUGGESTION ONLY. CONTRACTOR IS RESPONSIBLE FOR LOCATING, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS THAT MEETS LOCAL, STATE, AND FEDERAL PERMIT REQUIREMENTS.

REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1992 CHARLES W. CUTTING 10/17/25

EXPIRES: 12/31/2025

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

EROSION, SEDIMENT CONTROLS AND COFFERDAM PLAN

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Project No.	Date Revised	Drawing No.
5002-001	10-17-25	130-01

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3"
2"
1"
0
22x34 = FULL SCALE

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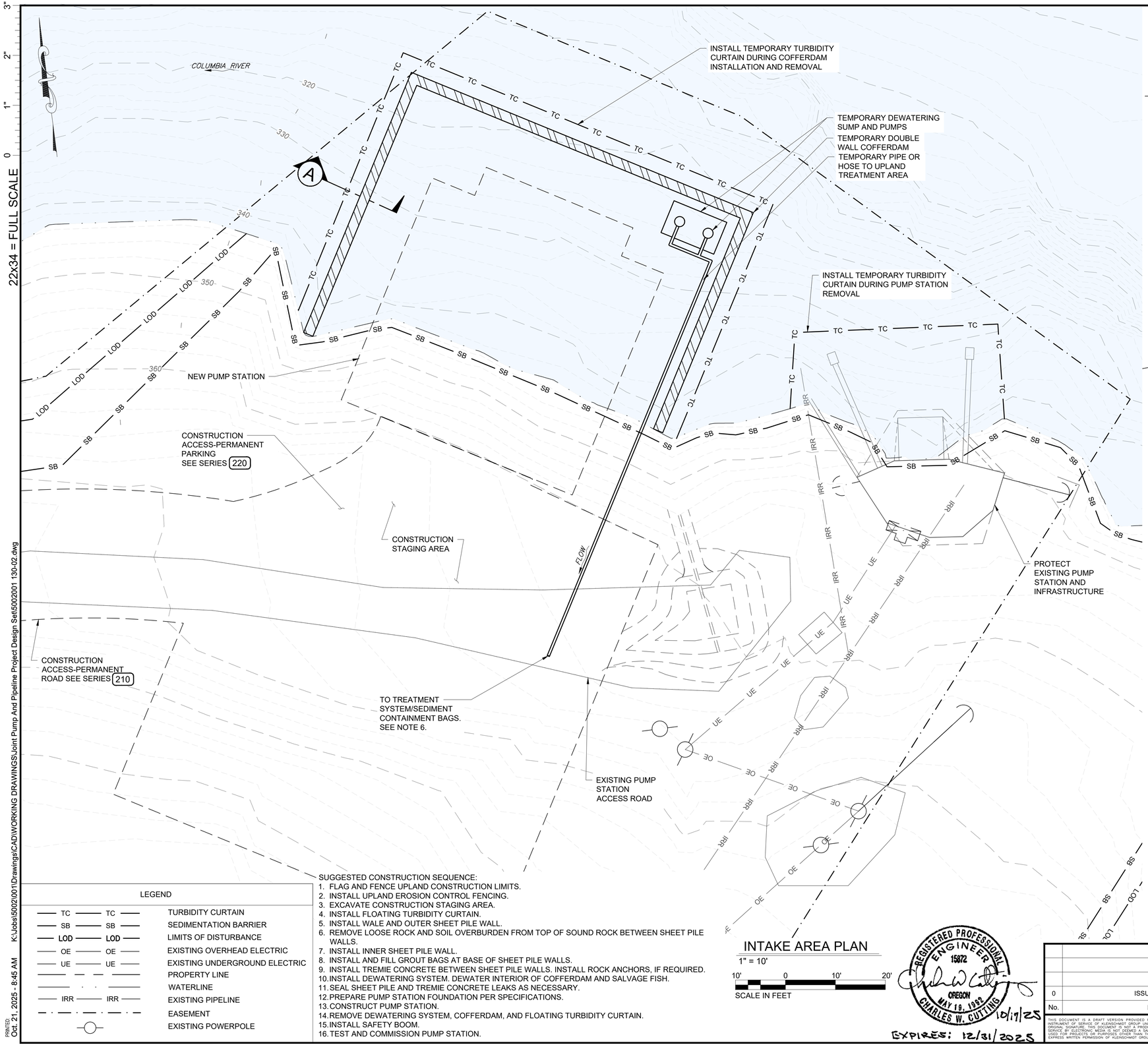
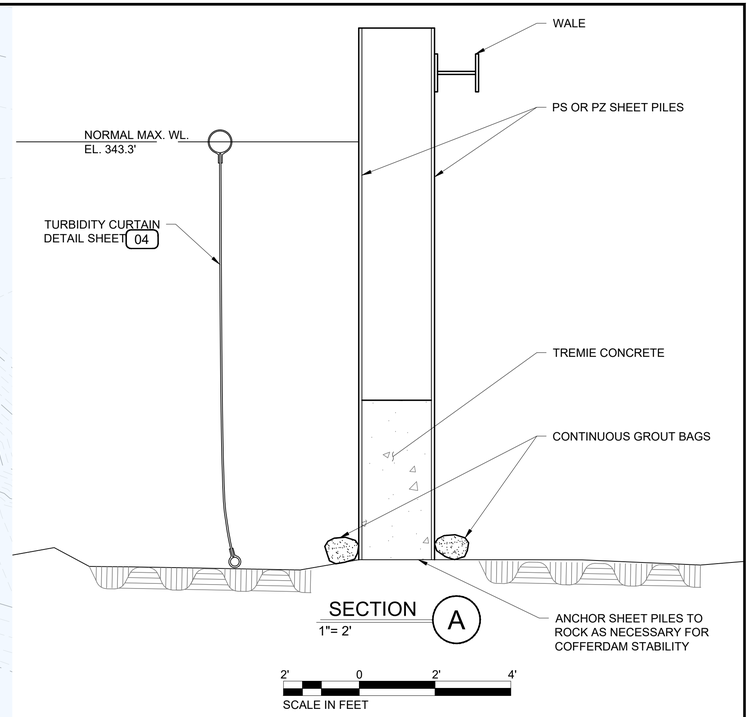


INTAKE AREA PLAN
1" = 10'
10' 0 10' 20'
SCALE IN FEET



SECTION A
1"= 2'

2' 0 2' 4'
SCALE IN FEET

NOTES:
1. THE CONCEPTUAL TEMPORARY FACILITIES SHOWN ON THE DRAWINGS DEPICT A COFFERDAM AND DEWATERING SYSTEM EXPECTED TO BE NECESSARY FOR MANAGING WATER DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, INSTALLING, AND MAINTAINING A COFFERDAM AND DEWATERING SYSTEM SUITABLE FOR CONSTRUCTING THE IMPROVEMENTS IN ACCORDANCE WITH THE PERMITTING CONDITIONS.
2. CONTRACTOR SHALL SUBMIT COFFERDAM DESIGN DRAWINGS, CALCULATIONS, AND DETAILS FOR APPROVAL IN ACCORDANCE WITH THE SPECIFICATIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE TEMPORARY DEWATERING PUMP CAPACITY, PIPING MATERIALS AND SIZE. CONTRACTOR SHALL DESIGN, INSTALL AND MAINTAIN ADEQUATE PIPE SUPPORTS AND RESTRAINTS TO RESIST LOADS ASSOCIATED WITH THE TEMPORARY CONSTRUCTION DEWATERING PUMPS AND PIPING.
4. IN-WATER COFFERDAM CONSTRUCTION AND REMOVAL WORK ON THE PROJECT SHALL NOT BEGIN UNTIL DECEMBER 15TH AND SHALL BE COMPLETED BY MARCH 31ST OF EACH YEAR. SEE PERMIT REQUIREMENTS.
5. A COFFERDAM SHALL BE USED FOR WORK TO ISOLATE THE PUMP STATION CONSTRUCTION FROM THE COLUMBIA RIVER. UPON COMPLETION OF THE PROJECT, ALL COFFERDAM MATERIALS SHALL BE REMOVED TO THE SURFACE OF THE EXISTING ROCK.
6. ANY CONTAMINATED DE-WATERING WATER (INCLUDING WATER EXPOSED TO UNCURED CONCRETE) SHALL BE ROUTED TO AN AREA UPLAND OF THE ORDINARY HIGH WATER LINE FOR TREATMENT TO REMOVE FINE SEDIMENT AND OTHER CONTAMINANTS. CLEAN DE-WATERING WATER MAY BE RETURNED TO THE RIVER AS ALLOWED IN THE PERMITS.

811 Know what's below. Call before you dig.

LEGEND

TC TC	TURBIDITY CURTAIN
SB SB	SEDIMENTATION BARRIER
LOD LOD	LIMITS OF DISTURBANCE
OE OE	EXISTING OVERHEAD ELECTRIC
UE UE	EXISTING UNDERGROUND ELECTRIC
	PROPERTY LINE
	WATERLINE
IRR IRR	EXISTING PIPELINE
	EASEMENT
	EXISTING POWERPOLE

SUGGESTED CONSTRUCTION SEQUENCE:
1. FLAG AND FENCE UPLAND CONSTRUCTION LIMITS.
2. INSTALL UPLAND EROSION CONTROL FENCING.
3. EXCAVATE CONSTRUCTION STAGING AREA.
4. INSTALL FLOATING TURBIDITY CURTAIN.
5. INSTALL WALE AND OUTER SHEET PILE WALL.
6. REMOVE LOOSE ROCK AND SOIL OVERBURDEN FROM TOP OF SOUND ROCK BETWEEN SHEET PILE WALLS.
7. INSTALL INNER SHEET PILE WALL.
8. INSTALL AND FILL GROUT BAGS AT BASE OF SHEET PILE WALLS.
9. INSTALL TREMIE CONCRETE BETWEEN SHEET PILE WALLS. INSTALL ROCK ANCHORS, IF REQUIRED.
10. INSTALL DEWATERING SYSTEM. DEWATER INTERIOR OF COFFERDAM AND SALVAGE FISH.
11. SEAL SHEET PILE AND TREMIE CONCRETE LEAKS AS NECESSARY.
12. PREPARE PUMP STATION FOUNDATION PER SPECIFICATIONS.
13. CONSTRUCT PUMP STATION.
14. REMOVE DEWATERING SYSTEM, COFFERDAM, AND FLOATING TURBIDITY CURTAIN.
15. INSTALL SAFETY BOOM.
16. TEST AND COMMISSION PUMP STATION.

REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1992 CHARLES W. CUTTING 10/17/25
EXPIRES: 12/31/2025

No.	Revision	Date	Drawn	Checked
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CM	BJL	CM	5002-001	10-17-25	130-02

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

EROSION, SEDIMENT CONTROLS AND COFFERDAM - COFFERDAM PLAN AND SECTION

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22x34 = FULL SCALE

GENERAL NOTES

1. HOLD A PRE-CONSTRUCTION MEETING THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.
2. THE ESC PLAN MUST BE KEPT ONSITE AT ALL TIMES WHEN WORK IS OCCURRING.
3. THE ESC MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THE MEASURES MUST BE UPGRADED AS NEEDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS.
4. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS:
   A. FENCE OR FLAG AREAS TO BE PROTECTED OR LEFT UNDISTURBED DURING CONSTRUCTION;
   B. INSTALL GRAVELED OR PAVED CONSTRUCTION ENTRANCES, EXITS, AND PARKING AREAS TO REDUCE THE TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS;
   C. CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY ESC BMPS;
   D. INSTALL TEMPORARY ESC BMPS, CONSTRUCTING SEDIMENT TRAPPING BMPS AS ONE OF THE FIRST STEPS PRIOR TO GRADING;
   E. CLEAR, GRUB AND ROUGH GRADE FOR ROADS AND UTILITY LOCATIONS;
   F. CLEAR, GRUB AND GRADE INDIVIDUAL LOTS OR GROUPS OF LOTS;
   G. TEMPORARILY STABILIZE, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPS, LOTS OR GROUPS OF LOTS IN SITUATIONS WHERE SUBSTANTIAL CUT OR FILL SLOPES ARE A RESULT OF THE SITE GRADING;
   H. CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (I.E. INLETS, PONDS, UIC FACILITIES, ETC.);
   I. PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMPS;
   J. REMOVE TEMPORARY ESC CONTROLS WHEN PERMANENT STORMWATER FACILITIES HAVE BEEN INSTALLED, ALL LAND-DISTURBING ACTIVITIES HAVE CEASED, AND VEGETATION HAS BEEN ESTABLISHED IN THE AREAS NOTED ON THE ACCEPTED ESC PLAN.
5. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT AND DURATION PRACTICAL.
6. INSPECT ALL ROADWAYS ADJACENT TO THE CONSTRUCTION ACCESS ROUTE AT THE END OF EACH DAY. SIGNIFICANT AMOUNTS OF SEDIMENT THAT LEAVES THE CONSTRUCTION SITE MUST BE CLEANED UP WITHIN 24 HOURS AND STABILIZED BACK ON THE SITE OR PROPERLY DISPOSED. THE CAUSE OF SEDIMENT RELEASE MUST BE IDENTIFIED AND PREVENTED FROM CAUSING A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. VACUUMING OR DRY SWEEPING MUST BE USED TO CLEAN-UP RELEASED SEDIMENT AND SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES.
7. COVER AND SECURE ALL DUMP TRUCK LOADS LEAVING THE CONSTRUCTION SITE TO MINIMIZE SPILLAGE ON ROADS.
8. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION.
9. PREVENT AIRBORNE DUST AND FUGITIVE DUST EMISSIONS FROM CONSTRUCTION ACTIVITIES. DO NOT USE OIL, WASTE, WASTE WATER, OR OTHER ILLEGAL MATERIALS AS DUST SUPPRESSANTS.
10. STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES), WHETHER AT FINAL GRADE OR NOT, WITHIN 10 CALENDAR DAYS DURING THE REGIONAL DRY SEASON (JULY 1 THROUGH SEPTEMBER 30) AND WITHIN 5 CALENDAR DAYS DURING THE REGIONAL WET SEASON (OCTOBER 1 THROUGH JUNE 30).
11. PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OPERABLE.
12. KEEP ROADS ADJACENT TO INLETS CLEAN.
13. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS. CLEAN OR REMOVE AND REPLACE INLET PROTECTION DEVICES BEFORE SIX INCHES OF SEDIMENT CAN ACCUMULATE.
14. INSTALL SEDIMENT CONTROLS ALONG THE SITE PERIMETER ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE BEFORE COMMENCING EARTH DISTURBING ACTIVITIES.
15. WHENEVER POSSIBLE, CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) BEFORE GRADING BEGINS. THESE FACILITIES SHOULD BE OPERATIONAL BEFORE THE CONSTRUCTION OF IMPERVIOUS SITE IMPROVEMENTS.
16. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ONSITE, KEEPING OFF OF LEWIS AND CLARK TRAIL.
17. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NON- INERT WASTES PRESENT ONSITE FROM VANDALISM. MAINTAIN A SUPPLY OF MATERIALS ON HAND TO ADDRESS AND CONTAIN SPILLS.
18. LOCATE DESIGNATED VEHICLE AND EQUIPMENT SERVICE AREAS, FUEL, AND MATERIALS AWAY FROM DRAINAGE INLETS, WATERCOURSES, AND CANALS. PROPERLY CONTAIN AREAS USING BERMS, SANDBAGS, OR OTHER BARRIERS. REGULARLY INSPECT AND MAINTAIN EQUIPMENT, ESPECIALLY FOR DAMAGED HOSES AND LEAKY GASKETS.
19. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES (I.E. OIL CHANGES, FUEL TANK DRAIN DOWN, ETC) THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. PERFORM REPAIRS ONSITE USING TEMPORARY PLASTIC OR OIL ABSORBING BLANKETS BENEATH THE VEHICLE.
20. DESIGNATE AN AREA FOR CLEANING PAINTING EQUIPMENT AND TOOLS. NEVER CLEAN BRUSHES OR RINSE CONTAINERS INTO THE STREET, GUTTER, DRAINAGE INLET, OR WATERWAY.
21. APPLY LANDSCAPING OR AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATION RATES, THAT INHIBITS THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES.
22. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/AFTER A RUNOFF PRODUCING STORM EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMPS.
23. REMOVE TEMPORARY ESC BMPS WITHIN 30 DAYS AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREAS THAT ARE DISTURBED DURING THE REMOVAL PROCESS.
24. PROVIDE LINED CONCRETE WASHOUT BASIN OR PREFABRICATED WASHOUT CONTAINERS. CLEAN OR REPLACE CONTAINERS WHEN THEY ARE 75% FILL. DISPOSE OF HARDENED WASHOUT MATERIAL PER APPLICABLE SOLID WASTE REGULATIONS.

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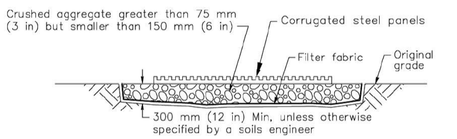
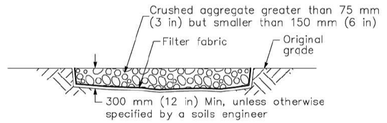
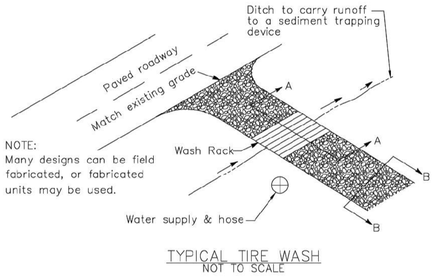
ENTRANCE / EXIT TIRE WASH – SC-11



SECTION A–A
NOT TO SCALE



SECTION B–B
NTS



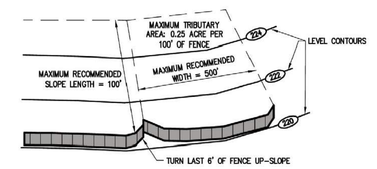
TYPICAL TIRE WASH
NOT TO SCALE

MANUAL / HOSE TIRE WASH

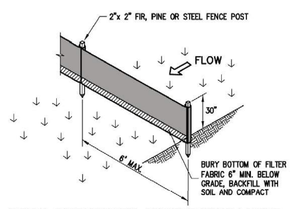
STABILIZED CONSTRUCTION EXIT DETAIL

N.T.S. REFERENCE CENTRAL OREGON STORMWATER MANUAL APPENDIX 9B

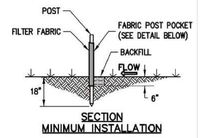
SEDIMENT FENCE – SC-1



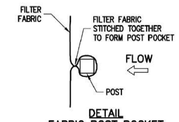
TYPICAL PREFABRICATED SEDIMENT FENCE LAYOUT



TYPICAL PREFABRICATED SEDIMENT FENCE LAYOUT



SECTION
MINIMUM INSTALLATION

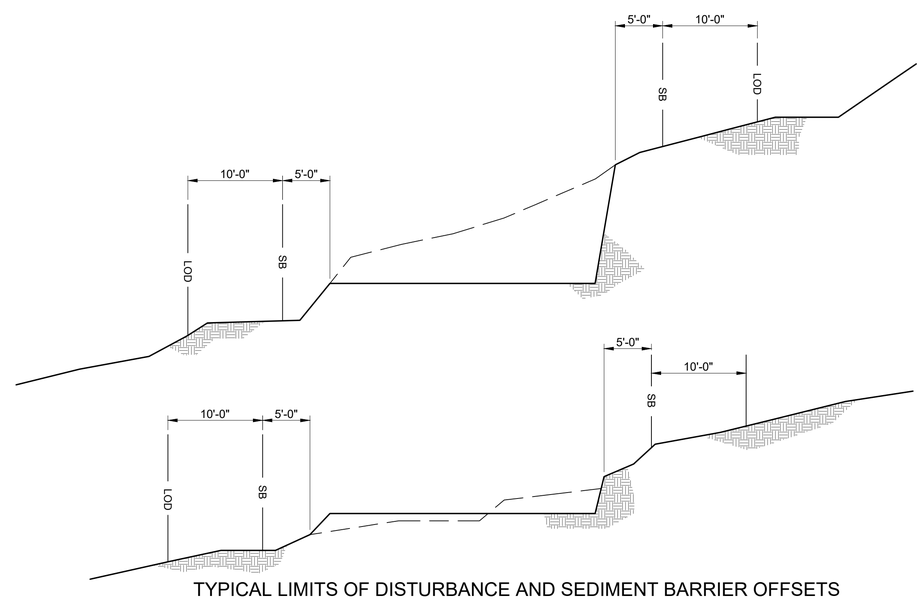


DETAIL
FABRIC POST POCKET

NOTES:
1.) INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2.) REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3.) SEDIMENT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
4.) STITCHED POCKETS TO BE INSTALLED ON UPHILL SIDE OF SLOPE.

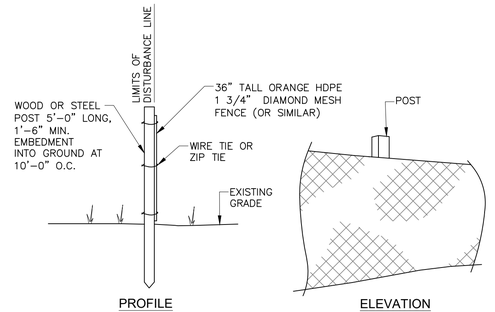
SILT FENCE DETAIL

N.T.S. REFERENCE CENTRAL OREGON STORMWATER MANUAL APPENDIX 9B



TYPICAL LIMITS OF DISTURBANCE AND SEDIMENT BARRIER OFFSETS

N.T.S.



NOTES:
1. LOD FENCE SHALL RUN THE ENTIRE LENGTH/PERIMETER AS SHOWN IN THE PLANS. IN LIEU OF A MESH WHERE INSTALLATION WOULD BE DIFFICULT, A 3" ORANGE BARRIER TAPE CAN BE USED TO DEFINE LOD LIMITS AT A HEIGHT OF 4FT ABOUT GRADE.
2. MAINTAIN FENCE, REPAIR AREAS THAT ENCOUNTER DAMAGE DURING CONSTRUCTION.
3. NO ACTIVITY TO BE ALLOWED OUTSIDE THE DEMARCATED L.O.D. WITHOUT ENGINEER REVIEW AND ALL PROPER PERMIT APPROVALS.
4. FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT.
5. COORDINATE WITH PIPELINE CONTRACTOR AT CONSTRUCTION INTERFACE OF POWER AND COMMUNICATION CONDUITS AND NEW PIPELINE.

LIMITS OF DISTURBANCE FENCE DETAIL

N.T.S.

811 Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1982 CHARLES W. CUTTING
10/17/25
EXPIRES: 12/31/2025

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
CM	BJL	CM	5002-001	10-17-25	130-03

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

EROSION, SEDIMENT CONTROLS
NOTES AND DETAILS (1)

Kleinschmidt
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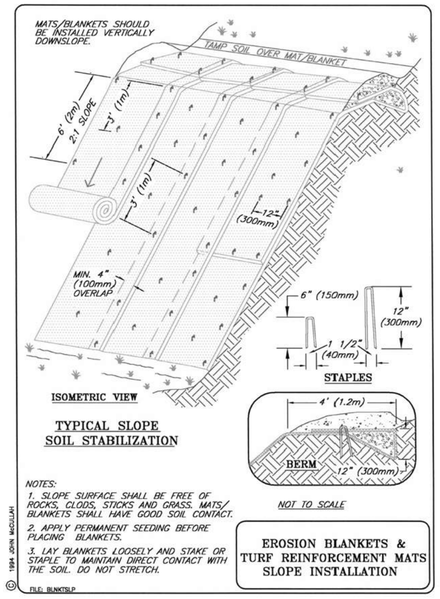
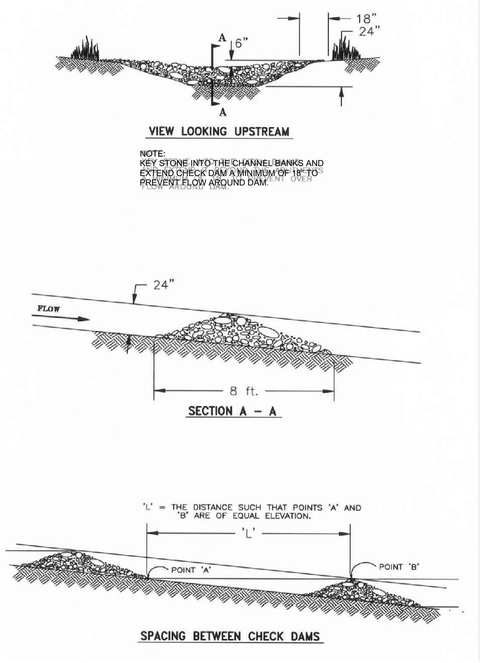
22x34 = FULL SCALE
3"
2"
1"
0



ROLLED EROSION CONTROL PRODUCTS (RECP)

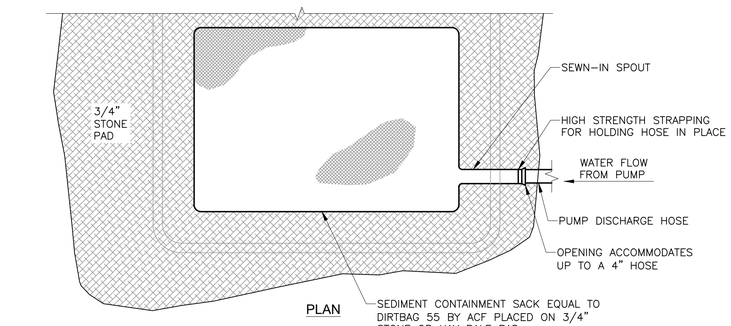
N.T.S. REFERENCE CENTRAL OREGON STORMWATER MANUAL APPENDIX 9B

CHECK DAMS –RC-11



TEMPORARY ROCK CHECK DAMS

N.T.S. REFERENCE CENTRAL OREGON STORMWATER MANUAL APPENDIX 9B

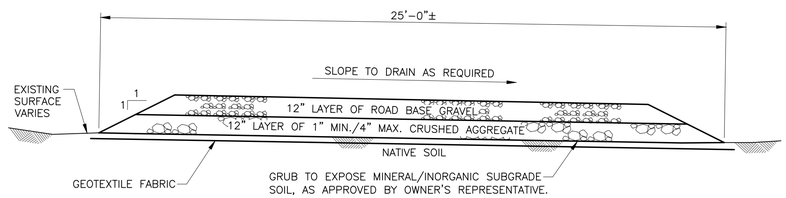


NOTES:

1. WATER PUMPED FROM EXCAVATIONS SHALL BE DISCHARGED INTO SEDIMENT CONTAINMENT BAGS.
2. CONSTRUCT PADS FOR SEDIMENT CONTAINMENT BAGS OF 3/4" STONE.
3. GRADE THE 3/4" STONE OR HAY BALE PAD SO THE SURFACE IS SLOPED SLIGHTLY (1%–2%) AWAY FROM THE HOSE OPENING.
4. PLACE LIFTING STRAPS OR ROPES OVER THE 3/4" STONE OR HAY BALE PAD PRIOR TO SETTLING THE BAG IN PLACE TO FACILITATE REMOVAL OF THE FULL BAG.
5. SET BAG IN PLACE AND CONNECT HOSE FROM DEWATERING PUMP. TIE OFF THE NECK OF THE BAG TO THE HOSE TIGHT ENOUGH TO PREVENT WATER FROM FLOWING OUT AROUND THE HOSE UNFILTERED.
6. INSPECT THE BAG PERIODICALLY AND REPLACE WHEN NO LONGER EFFECTIVE.
7. ACCUMULATED SEDIMENT MAY BE USED TO BACKFILL EXCAVATIONS EXCEPT WHERE SPECIFIC MATERIALS OTHER THAN NATIVE SOILS ARE SPECIFIED.
8. PROPERLY DISPOSE OF SPENT BAGS.

SEDIMENT CONTAINMENT BAG DETAIL

N.T.S.

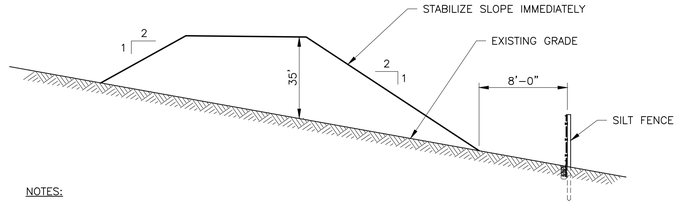


TYPICAL TEMPORARY ACCESS ROAD AND LAYDOWN AREA CROSS SECTION

N.T.S.

NOTES:

1. FINAL ACCESS ROAD AND LAYDOWN AREA DETAILS PER CONTRACTOR DESIGN.
2. OVERALL CONFIGURATION AND SIZING OF ACCESS ROAD AND LAYDOWN AREA TO BE WITHIN THE REQUIREMENTS OF THE PERMIT.
3. CONTRACTOR SHALL SELECT A GEOTEXTILE FABRIC SUITABLE FOR THE EXISTING SITE CONDITIONS AND THE PROPOSED ACCESS ROAD AND LAYDOWN AREA DESIGN AND SUBMIT IT FOR APPROVAL BY OWNER. GEOTEXTILE FABRIC SHALL BE STRONG ENOUGH TO ALLOW FOR COMPLETE REMOVAL AFTER COMPLETION OF THE WORK. GEOTEXTILE FABRIC SHALL BE STRONG ENOUGH TO AVOID TEARING AND LOSS OF ROAD MATERIAL INTO THE NATIVE SOIL. REGARDLESS OF SUBMITTAL ACCEPTANCE BY OWNER, CONTRACTOR SHALL BE RESPONSIBLE TO APPROPRIATELY RESTORE SITE (AS DIRECTED BY THE RESOURCE AGENCIES) IF THE GEOTEXTILE ALLOWS ROAD MATERIALS TO MIX WITH THE NATIVE SOIL CONTRACTOR SHALL REMOVE ALL ROAD MATERIALS (INCLUDING GEOTEXTILE FABRIC) IN THEIR ENTIRETY AFTER CONSTRUCTION IS COMPLETE.

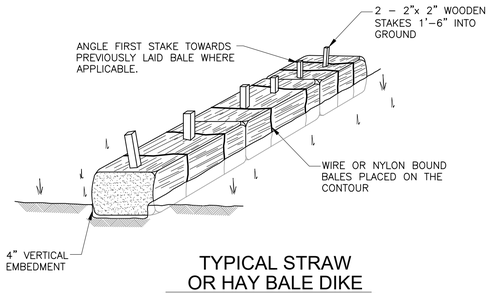


NOTES:

1. INSTALL SILT FENCE AROUND PERIMETER OF STOCKPILE, OR ON DOWNSLOPE OF AREA OF STOCKPILE.
2. PLACE STOCKPILE IN AREAS WITHOUT BLOCKING NATURAL DRAINAGE PATTERNS.
3. FOLLOW DIMENSIONS SHOWN ABOVE. HEIGHT SHOULD NOT EXCEED 35 FT. SIDE SLOPES SHOULD NOT BE STEEPER THAN 2(H):1(V).
4. STABILIZE IMMEDIATELY PER THE "SEEDING SPECIFICATIONS."
5. CONTRACTOR SHALL VERIFY REQUIRED SIZE(S). REQUIREMENTS FROM THE STANDARDS DETAIL MUST BE FOLLOWED FOR STOCKPILES.
6. PERFORM WEEKLY INSPECTIONS, ROUTINE MAINTENANCE AND REGULAR SEDIMENT REMOVAL.

TEMPORARY STOCKPILE DETAIL

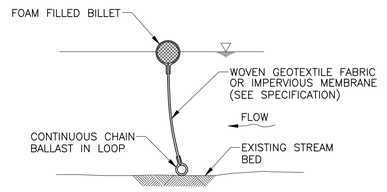
N.T.S.



TYPICAL STRAW OR HAY BALE DIKE

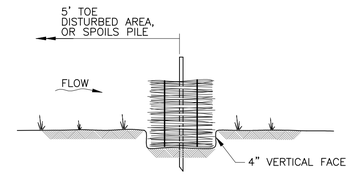
N.T.S.

NOTE: NOT TO BE USED FOR PERIMETER CONTROL.



TURBIDITY CURTAIN DETAIL

N.T.S.



EMBEDDING DETAIL

1/2"=1'-0"

NOTE: NOT TO BE USED FOR PERIMETER CONTROL.

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REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1992 CHARLES W. CUTTING 10/17/25

EXPIRES: 12/31/2025

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

EROSION, SEDIMENT CONTROLS
NOTES AND DETAILS (2)

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
CM	BJL	CM	5002-001	10-17-25	130-04

PRINTED:
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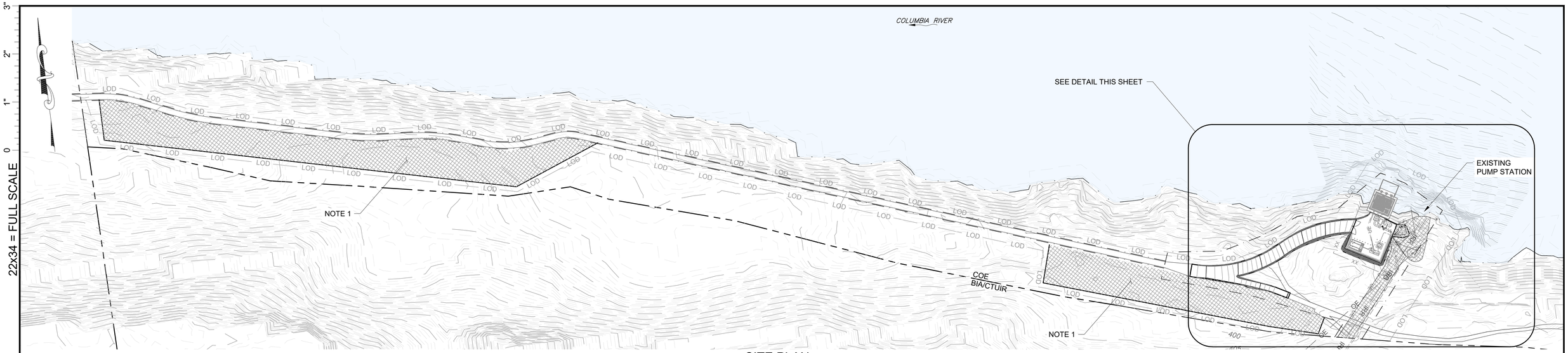
22x34 = FULL SCALE



SITE PLAN

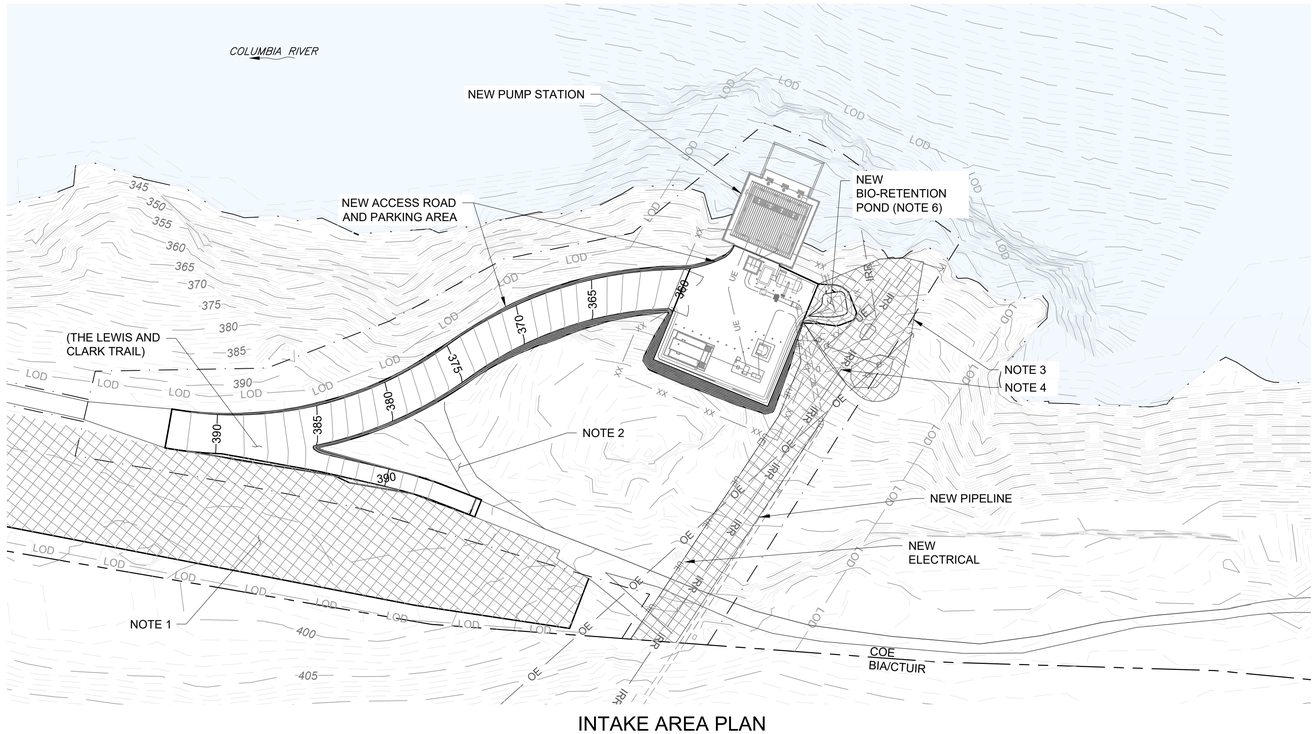
1"=100'

100' 0 100' 200'

SCALE IN FEET

RESTORATION PLAN NOTES:

1. LAYDOWN/STAGING AREAS: REFILL WITH NATIVE MATERIALS; GRADE TO REFLECT APPROXIMATE PRE-CONSTRUCTION CONDITIONS, PLANT WITH APPROVED NATIVE SEED MIX OR PLANTS.
2. SEED/PLANT WITH APPROVED NATIVE SEED MIX OR PLANTS.
3. AFTER REMOVAL OF ALL EXISTING PUMP STATION FACILITIES (INTAKE, PIPELINES, ELECTRICAL SERVICE, EQUIPMENT), REGRADE TO MATCH SURROUNDING SLOPE AND GRADE; ADD TOPSOIL AS NECESSARY TO SUPPORT RESEED/REPLANT WITH NATIVE PLANTS ON TOP OF TRENCH. GRADE TO REFLECT APPROXIMATE PRE-CONSTRUCTION CONDITIONS, COVER WITH APPROVED TOPSOIL MIX AND SEED WITH NATIVE SEED MIX.
4. AFTER REMOVAL OF EXISTING PIPELINE, REFILL TRENCH AND REGRADE TO MATCH SURROUNDING SLOPE AND GRADE; ADD TOPSOIL AS NECESSARY TO SUPPORT RESEED/REPLANT WITH APPROVED NATIVE SEED MIX OR PLANTS.
5. REPAIR AND RESTORE LEWIS AND CLARK TRAIL TO PRE-CONSTRUCTION CONDITION OR BETTER.
6. BIO-RENTENTION POND, SEED WITH APPROVED NATIVE SEED MIX OR PLANTS.
7. WATER AND MAINTAIN ALL SEEDED/PLANTED AREAS UNTIL ESTABLISHED.
8. SEED/PLANT ONLY DURING PERIODS AS RECOMMENDED BY SEED/PLANT SUPPLIER.



INTAKE AREA PLAN

1'=50'

50' 0 50' 100'

SCALE IN FEET

LEGEND	
LOD LOD	LIMITS OF DISTURBANCE
	NEW BURIED PIPELINE
XX XX	NEW SECURITY FENCE
UE UE	NEW UNDERGROUND ELECTRIC
OE OE	EXISTING OVERHEAD ELECTRIC
UE UE	EXISTING UNDERGROUND ELECTRIC
	PROPERTY LINE
	WATERLINE
IRR IRR	EXISTING PIPELINE
OE OE	EXISTING OVERHEAD ELECTRIC
UE UE	EXISTING UNDERGROUND ELECTRIC
IRR IRR	EXISTING PIPELINE
	EASEMENT

REGISTERED PROFESSIONAL ENGINEER
15872
OREGON
MAY 19, 1982
CHARLES W. CUTTING
10/17/25
EXPIRES: 12/31/2025

Know what's below. Call before you dig.

No.	Revision	Date	Drawn	Checked
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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
CM	BJL	CM	5002-001	10-17-25	140-01

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

SITE RESTORATION
PLAN

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22x34 = FULL SCALE

3" 2" 1" 0

COLUMBIA RIVER

RSI CONTROL #997
FND. 2" C.O.E. ALUM. CAP
FLUSH W/ GROUND
STAMPED "97048-3, 1996"
ELEV: 352.23

INTAKE STRUCTURE DETAILS SEE SERIES 300

A/02

FLOATING PUBLIC SAFETY BARRIER

PUMP HOUSE ARCHITECTURAL DETAILS SEE SERIES 600

APPROXIMATE BORING LOCATION, SEE GEOTECHNICAL REPORT

C.P. 3

CONDUIT TRENCH DETAILS SEE SERIES 230

28' DOUBLE LEAF SECURITY GATE

C.P. 2

W.P. 1

W.P. 4

FLOW METER VAULT SEE SHEET 330-01

W.P. 2
W.P. 3
W.P. 5

EXISTING PUMP STATION AND RELATED COMPONENTS TO BE REMOVED AFTER COMPLETION OF PROJECT SEE SERIES 800

RSI CONTROL #547
FND. 2-1/2" C.O.E. ALUM. CAP
±0.2' BELOW GROUND
STAMPED "97048, TBM-1"
ELEV: 392.53

CONSTRUCTION ACCESS-PERMANENT ROAD SEE SERIES 210

(THE LEWIS AND CLARK TRAIL)

C.P. 1

BOLLARDS (TYP)

BASELINE B

BASELINE A

W.P. 6

APPROXIMATE BORING LOCATION, SEE GEOTECHNICAL REPORT

CONSTRUCTION ACCESS-PERMANENT PARKING SEE SERIES 220

W.P. 7

SURGE TANK AND AIR COMPRESSOR SEE SERIES 330 410

STANDBY DIESEL GENERATOR

C.P. 4

BIO-RETENTION POND SEE SERIES 220

GROUNDING ENCLOSURE

SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH

EXISTING ELECTRICAL RELATED COMPONENTS TO BE REMOVED AFTER COMPLETION OF PROJECT SEE SERIES 800

W.P. 8

W.P. 9

FIBER OPTIC PULLBOX SEE SERIES 230

UMATILLA ELECTRIC COOPERATIVE PAD MOUNT TRANSFORMER ELECTRICAL DETAILS SEE SERIES 500

STORMWATER DIVERSION DITCH SEE SERIES 220

UMATILLA ELECTRIC COOPERATIVE SERVICE ENTRANCE/METERING EQUIPMENT

UEC PRIMARY POWER PULLBOX SEE SERIES 230

WELDED WIRE SECURITY FENCE

UEC FIBER OPTIC PULLBOX SEE SERIES 230

TRAIL EXTENSION SEE SERIES 210

BURIED PIPELINE FOR DETAILS SEE SERIES 230

BURIED CONDUIT FOR DETAILS SEE SERIES 230

BURIED CONDUIT FOR DETAILS SEE SERIES 230

LIMIT OF CONSTRUCTION

CONSTRUCTION AND INSTALLATION OF PIPELINE AND CONDUIT BY OTHERS

W.P. 10

RSI CONTROL #52
SET 5/8" REBAR W/ RED PLASTIC CAP
STAMPED "RSI CONTROL"
ELEV: 412.42

Know what's below. Call before you dig.

LEGEND

UE UE	NEW UNDERGROUND ELECTRIC
FO FO	NEW UNDERGROUND FIBER OPTIC
G G	NEW VEHICULAR GUARDRAIL
	NEW BURIED PIPELINE
XX XX	NEW SECURITY FENCE
	EASEMENT
	NEW OVERHEAD LIGHT FIXTURE
	PROPERTY LINE
	WATERLINE
OE OE	EXISTING OVERHEAD ELECTRIC
UE UE	EXISTING UNDERGROUND ELECTRIC
IRR IRR	EXISTING PIPELINE

POINT I.D.	NORTHING	EASTING
C.P. 1	826765.11	8523717.69
C.P. 2	826812.91	8524065.63
C.P. 3	826839.02	8524020.04
C.P. 4	826767.31	8524145.45
W.P. 1	826851.79	8524101.90
W.P. 2	826839.38	8524123.60
W.P. 3	826826.97	8524145.31
W.P. 4	826845.27	8524084.14
W.P. 5	826804.63	8524155.19
W.P. 6	826794.48	8524097.93
W.P. 7	826769.11	8524040.63
W.P. 8	826737.83	8524065.47
W.P. 9	826728.52	8524111.76
W.P. 10	826581.20	8524035.76

INTAKE AREA PLAN

1" = 20'

20' 0 20' 40'

SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER 19972 OREGON MAY 19, 1992 CHARLES W. CUTTING

5/15/27

EXPIRES: 12/31/2027

No.	Revision	Date	Drawn	Checked
1	ISSUED FOR BID	05-20-26	BJL	CWC
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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

GENERAL ARRANGEMENT
INTAKE AREA AND PUMP STATION PLAN

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
CM	BJL	CM	5002-001	05-20-26	200-01

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22x34 = FULL SCALE
3" 2" 1" 0
PRINTED: Oct. 21, 2025 - 8:51 AM
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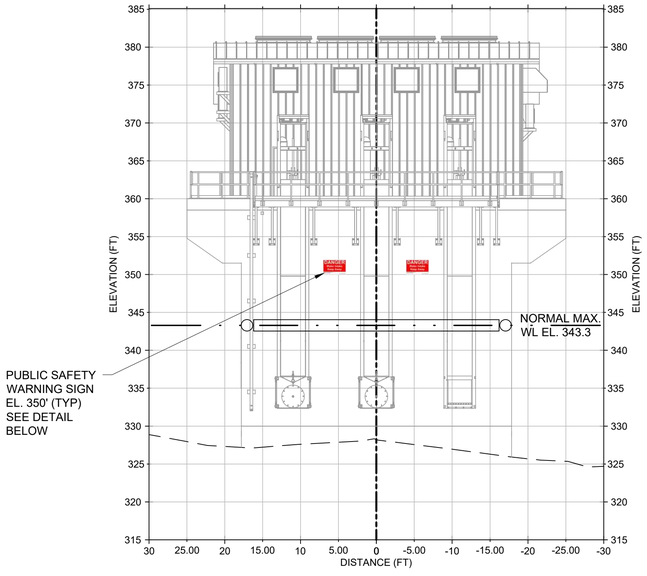
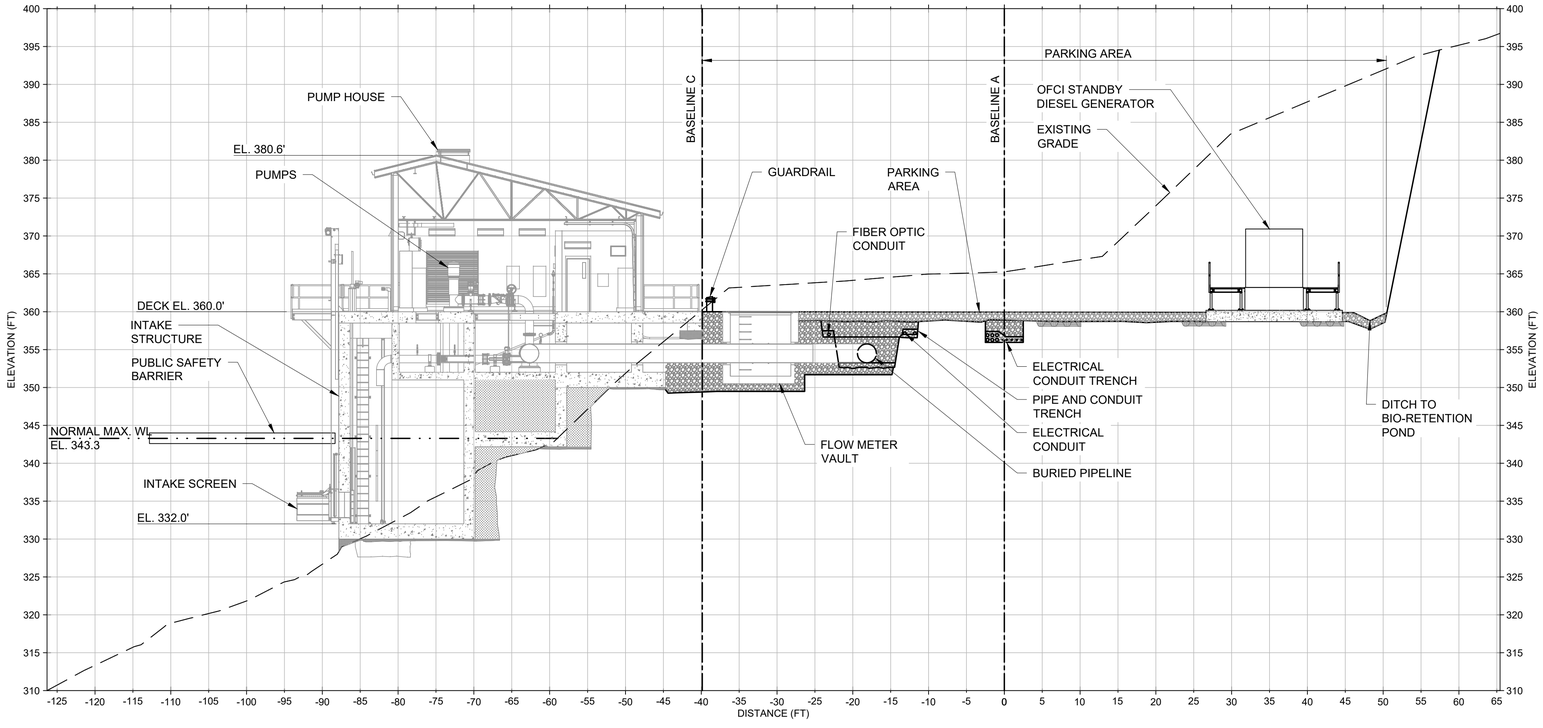


ELEVATION - FRONT OF INTAKE

1" = 10'



SECTION A 01

1"= 10'

10' 0 10' 20'

SCALE IN FEET

PUBLIC SAFETY WARNING SIGN

N.T.S.

NOTES:
1. MINIMUM "DANGER" LETTER HEIGHT IS 6".
2. CONTRACTOR TO CONFIRM PHONE NUMBER WITH OWNER.
3. ATTACH PUBLIC SAFETY WARNING SIGN TO INTAKE STRUCTURE WITH MINIMUM OF FOUR ANCHORED BOLTS. SUBMIT SIGN AND ATTACHMENT DESIGN TO ENGINEER FOR APPROVAL PRIOR TO PURCHASE.

Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1982 CHARLES W. CUTTING 10/17/25

EXPIRES: 12/31/2025

No.	Revision	Date	Drawn	Checked
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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
CM	BJL	CM	5002-001	10-17-25	200-02

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT

GENERAL ARRANGEMENT SECTIONS

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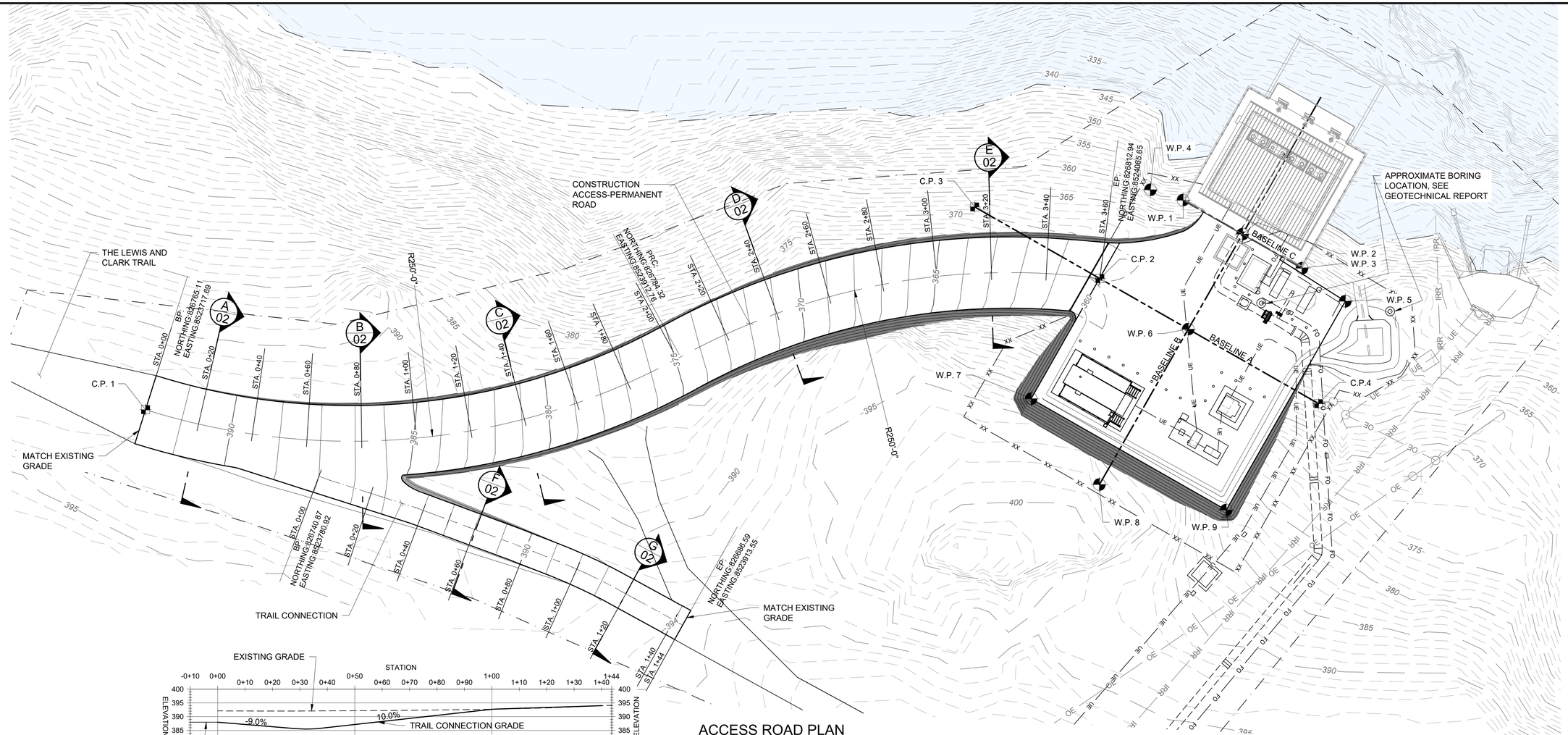
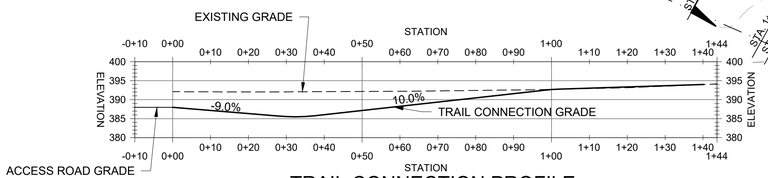
22x34 = FULL SCALE

3" 2" 1" 0





TRAIL CONNECTION PROFILE

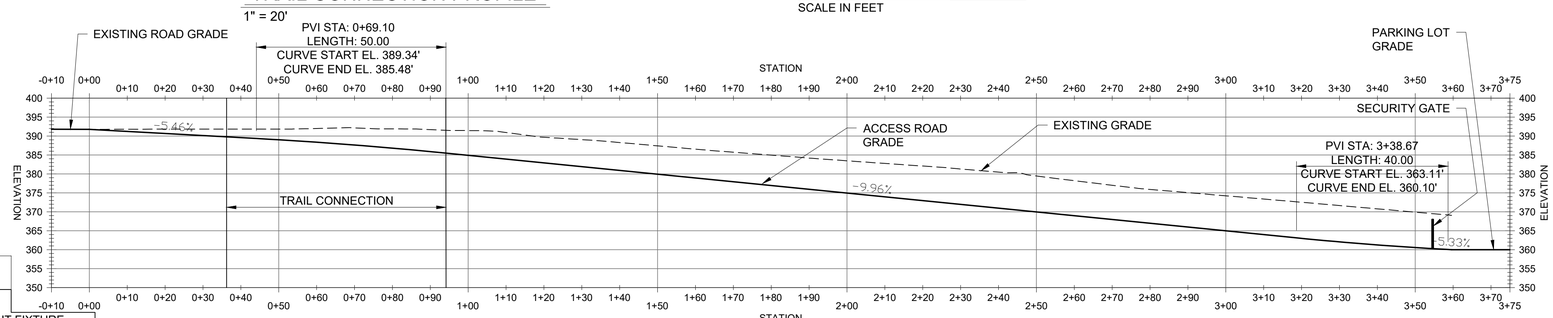
1" = 20'

ACCESS ROAD PLAN

1" = 20'

20' 0 20' 40'

SCALE IN FEET



ACCESS ROAD PROFILE

1" = 20'

LEGEND

— · — · — · —	EASEMENT
○—○	NEW OVERHEAD LIGHT FIXTURE
UE — UE	NEW UNDERGROUND ELECTRIC
FO — FO	NEW UNDERGROUND FIBER OPTIC
XX — XX	NEW SECURITY FENCE
G — G	NEW VEHICULAR GUARDRAIL
———	PROPERTY LINE
— · · —	WATERLINE
OE — OE	EXISTING OVERHEAD ELECTRIC
UE — UE	EXISTING UNDERGROUND ELECTRIC
IRR — IRR	EXISTING PIPELINE

NOTES:

1. ROCK SUBGRADE TO HAVE MINIMUM 12" COVERAGE; ALL OTHER SUBGRADE TO HAVE MINIMUM 24" COVERAGE.
2. ADJUST CUT SLOPE TO ACTUAL FIELD CONDITIONS OF ROCK QUALITY: FRESH = 1H:8V TO VERTICAL; WEATHERED-STAINED = 1H:4V TO 1H:8V; PARTIALLY DECOMPOSED ROCK = 1H:4V TO 1H:1V WITH NO REVEAL; COMMON = 1.5H:1V.

REGISTERED PROFESSIONAL ENGINEER 15072 OREGON MAY 19, 1992 CHARLES W. CUTTING

5/15/27

EXPIRES: 12/31/2027

811 Know what's below. Call before you dig.

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CIVIL - ACCESS ROAD
PLAN AND PROFILES

No.	Revision	Date	Drawn	Checked
1	ISSUED FOR BID	05-20-26	BJL	CWC
0	ISSUED FOR BID	10-17-25	BJL	CWC

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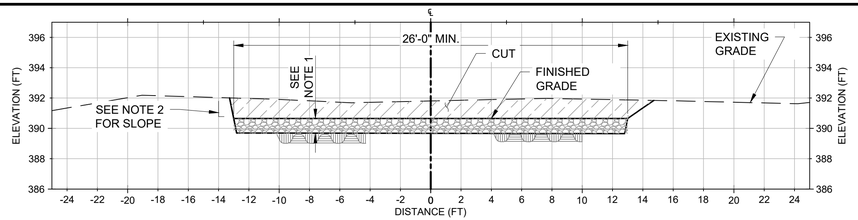
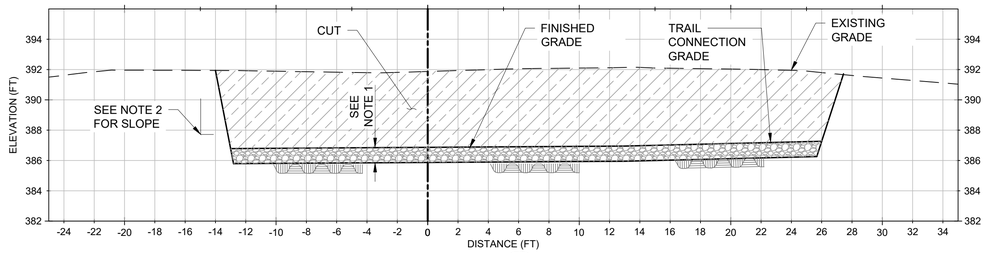
Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
CM	BJL	CM	5002-001	05-20-26	210-01

PRINTED: May. 20, 2026 - 6:42 PM
K:\Jobs\5002\001\Drawings\CAD\WORKING DRAWINGS\Joint Pump And Pipeline Project Design Set\5002001 210-01.dwg

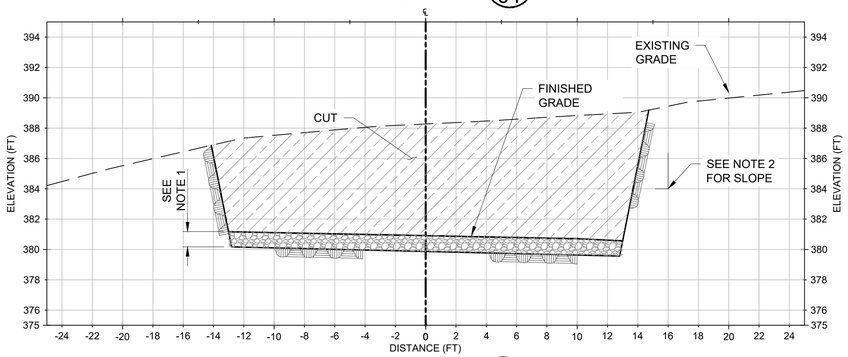
3" 2" 1" 0
22x34 = FULL SCALE
PRINTED: Oct 21, 2025 - 8:55 AM
K:\Jobs\5002001\Drawings\CAD\WORKING DRAWINGS\Joint Pump And Pipeline Project Design Set\5002001 210-02.dwg



SECTION A 01
1" = 5'



SECTION B 01
1" = 5'



SECTION C 01
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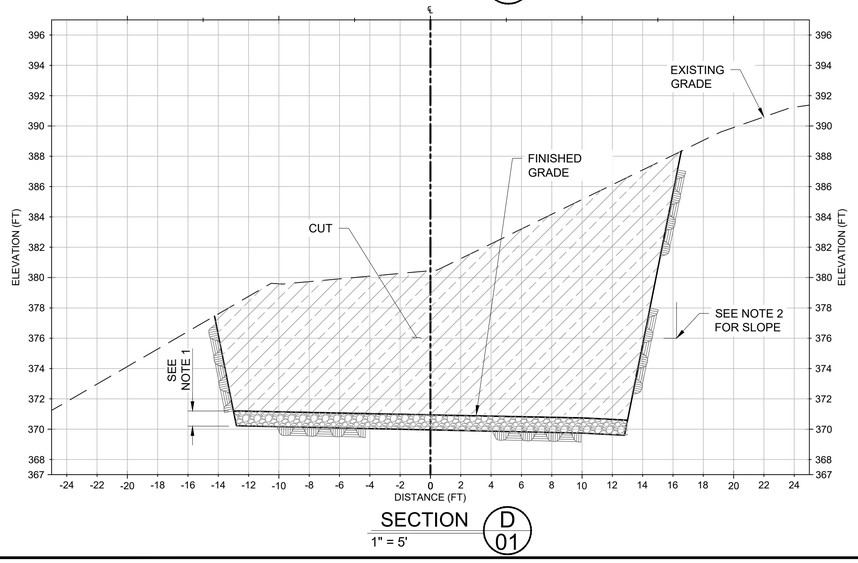

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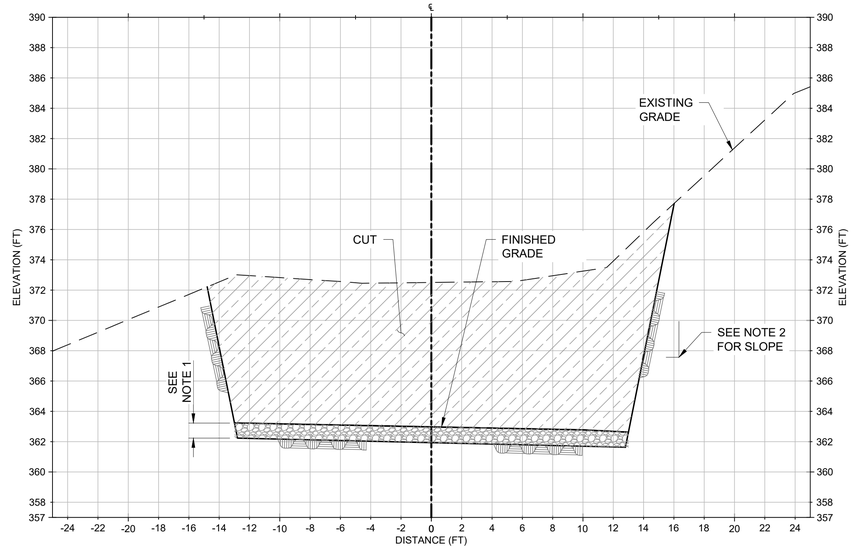

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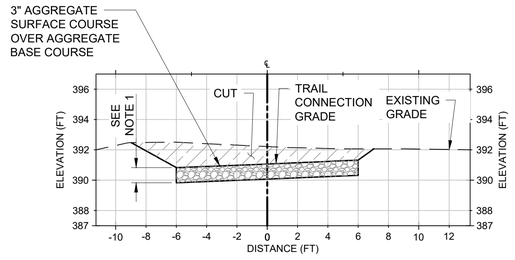

SECTION F 01
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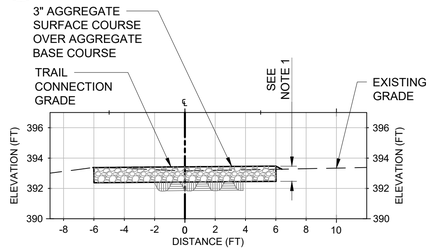
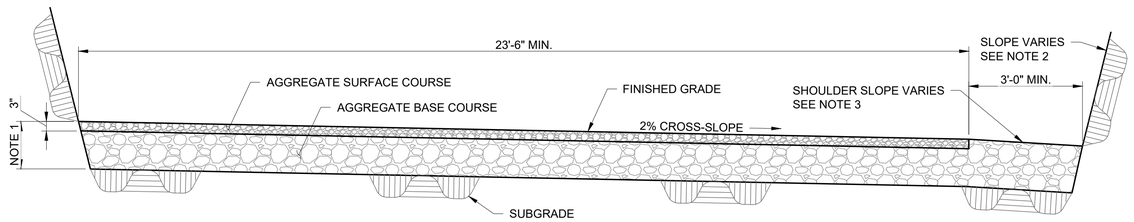


SECTION G 01
1" = 5'



TYPICAL AGGREGATE SURFACE ROAD SECTION
NTS

NOTES:
1. ROCK SUBGRADE TO HAVE MINIMUM 12" COVERAGE; ALL OTHER SUBGRADE TO HAVE MINIMUM 24" COVERAGE.
2. ADJUST CUT SLOPE TO SUIT ACTUAL FIELD CONDITIONS OF ROCK QUALITY: FRESH = 1H:8V TO VERTICAL; WEATHERED-STAINED = 1H:4V TO 1H:8V; PARTIALLY DECOMPOSED ROCK = 1H:4V TO 1H:1V WITH NO REVEAL; COMMON = 1.5H:1V. ADD BENCHES AS NECESSARY OR AS DIRECTED BY ENGINEER TO ENSURE STABLE SLOPE. SCALE ALL LOOSE ROCK.
3. TYPICAL SHOULDER CROSS-SLOPE WILL BE 6%. FROM STA. 3+30 TO 3+55, SHOULDER SLOPE WILL STEEPEN TO TRANSITION INTO PARKING LOT SWALE WITH A DEPTH OF 1-FT. MAX SHOULDER SLOPE WILL BE 33% NEAR STA. 3+55.

811 Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1992 CHARLES W. CUTTING 10/17/25
EXPIRES: 12/31/2025

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
CM	BJL	CM	5002-001	10-17-25	210-02

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CIVIL - ACCESS ROAD SECTIONS

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22x34 = FULL SCALE

SECURITY FENCE CORNER NO.	NORTHING	EASTING
F1	826827.28	8524141.70
F2	826803.46	8524179.52
F3	826785.03	8524180.68
F4	826777.38	8524175.57
F5	826769.92	8524162.62
F6	826772.17	8524152.95
F7	826705.75	8524115.30
F8	826762.53	8524016.07
F9	826789.99	8524031.77
F10	826799.09	8524053.54
F11	826801.32	8524054.82
F12	826825.74	8524068.77
F13	826827.61	8524069.84
F14	826851.37	8524083.40
F15	826847.28	8524103.27

PUMP STATION DETAILS SEE SERIES 300

C 02 · D 03 · 03m · B 02 · F 02 · A 02

F1 NORTHING = 826820.91 EASTING = 8524131.97 EL.360.0'

F2 NORTHING = 826788.27 EASTING = 8524145.86 EL.359.7'

F3 · F4 · F5 · F6 · F7 · F8 · F9 · F10 · F11 · F12 · F13 · F14 · F15

W.P. 1 · W.P. 2 · W.P. 3 · W.P. 4 · W.P. 5 EL.359.7' · W.P. 6 1+00 · W.P. 7 · W.P. 8 · W.P. 9

C.P. 2 EL.360.1' · C.P. 3 0+00 · C.P. 4

NORTHING = 826837.18 EASTING = 8524103.46 EL.360.0'

APPROXIMATE BORING LOCATION, SEE GEOTECHNICAL REPORT

SURGE TANK AND PIPING SEE 330-04 410-07

GUARDRAIL SEE

BASELINE C · BASELINE B · BASELINE A · STA. 1+06.16 · STA. 1+53.41

0.5% CROSS SLOPE TO BIO-RETENTION POND

START OF DIVERSION DITCH. TRANSITION DOWN TO SWALE INVERT EL. 359.22'±

AIR COMPRESSOR SEE 330-04 410-07

28' DOUBLE LEAF SECURITY GATE SEE 250-01

WELDED WIRE SECURITY FENCE SEE 250-01

NORTHING = 826770.51 EASTING = 8524046.34 EL.360.0'

BIO-RETENTION POND SEE DETAIL 01 04

PROTECT EXISTING PUMP STATION UNDERGROUND ELECTRICAL CONDUIT AND TRANSFORMER

TRANSITION DITCH INTO BIO-RETENTION POND. DITCH ℄ NORTHING = 826782.11 EASTING = 8524140.92 EL. 358.2'

REMOVE POLE C.P. 4

UTILITY TRANSFORMER PAD SEE DETAIL 5 ON 250-02

DITCH ℄ NORTHING = 826769.43 EASTING = 8524044.82 EL.359.0'

DITCH ℄ NORTHING = 826732.42 EASTING = 8524110.70 EL.358.5'

NORTHING = 826735.21 EASTING = 8524109.90 EL.359.7'

NOTES:
1. ADJUST CUT SLOPE TO ACTUAL FIELD CONDITIONS OF ROCK QUALITY: FRESH = 1H:8V TO VERTICAL; WEATHERED-STAINED = 1H:4V TO 1H:8V; PARTIALLY DECOMPOSED ROCK = 1H:4V TO 1H:1V WITH NO REVEAL; COMMON = 1.5H:1V. ADD BENCHES AS NECESSARY OR AS DIRECTED BY ENGINEER TO ENSURE STABLE SLOPE. SCALE ALL LOOSE ROCK.

LEGEND

UE	NEW UNDERGROUND ELECTRIC
FO	NEW UNDERGROUND FIBER OPTIC
XX	NEW SECURITY FENCE
G	NEW VEHICULAR GUARDRAIL
	EASEMENT
	NEW OVERHEAD LIGHT FIXTURE
	PROPERTY LINE
	WATERLINE
OE	EXISTING OVERHEAD ELECTRIC
UE	EXISTING UNDERGROUND ELECTRIC
IRR	EXISTING PIPELINE

10 0 10 20
SCALE IN FEET

PARKING AREA AND INTAKE PLAN
1" = 10'

REGISTERED PROFESSIONAL ENGINEER 15573 OREGON MAY 19, 1992 CHARLES W. CUTTING
5/15/27
EXPIRES: 12/31/2027

811 Know what's below. Call before you dig.

No.	Revision	Date	Drawn	Checked
1	ISSUED FOR BID	05-20-26	BJL	CWC
0	ISSUED FOR BID	10-17-25	BJL	CWC

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
CM	BJL	CM	5002-001	05-20-26	220-01

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CIVIL - PARKING AREA AND INTAKE EXCAVATION AND GRADING PLAN

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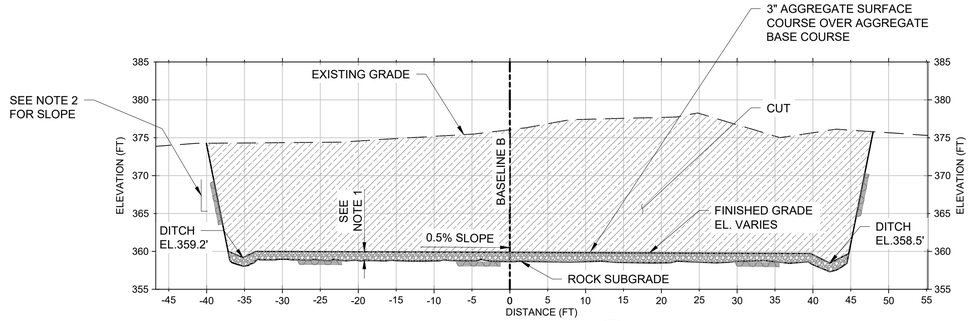
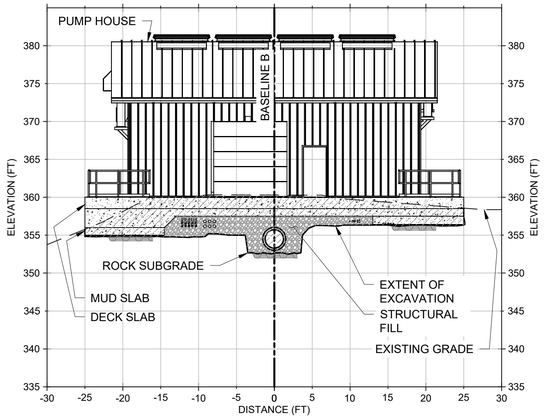
PRINTED: May. 20, 2026 - 5:27 PM
K:\Jobs\5002\001\Drawings\CADWORKING DRAWINGS\Joint Pump And Pipeline Project Design Set\5002001 220-01.dwg

22x34 = FULL SCALE

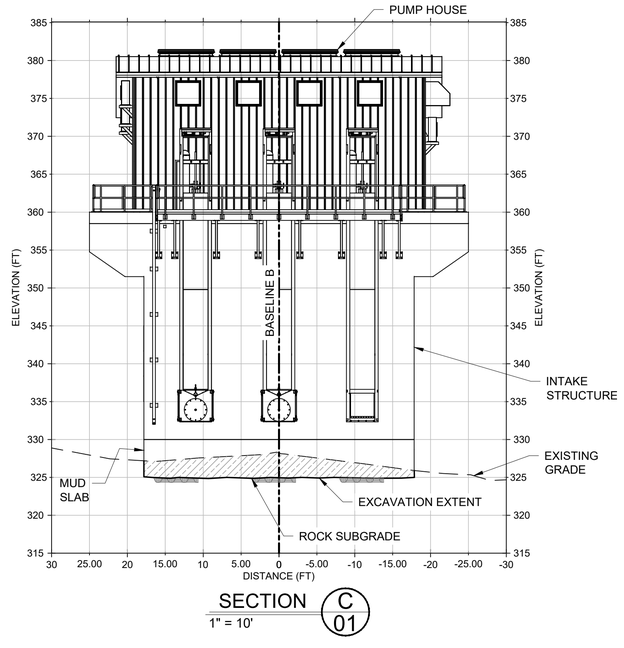


SECTION A 01
1" = 10'

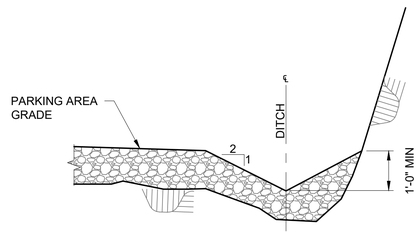


SECTION B 01
1" = 10'

10' 0 10' 20'
SCALE IN FEET



SECTION C 01
1" = 10'



TYPICAL DITCH SECTION F 01
1" = 2'

2' 0 2' 4'
SCALE IN FEET

NOTES:
1. ROCK SUBGRADE TO HAVE MINIMUM 12" MUD SLAB OR EARTHWORK COVERAGE; ALL OTHER SUBGRADE TO HAVE MINIMUM 24" COVERAGE. REFERENCE TYPICAL SECTION ON 210-02.
2. ADJUST CUT SLOPE TO SUIT ACTUAL FIELD CONDITIONS OF ROCK QUALITY: FRESH = 1H:8V TO VERTICAL; WEATHERED-STAINED = 1H:4V TO 1H:8V; PARTIALLY DECOMPOSED ROCK = 1H:4V TO 1H:1V WITH NO REVEAL; COMMON = 1.5H:1V.
3. ROCK EXCAVATION TO PROVIDE MINIMUM 12" THICK MUD SLAB (AS NEEDED) BELOW CONCRETE FOUNDATION AND 3 FT BEHIND CONCRETE WALL TO ALLOW DOUBLE FORM. BACK FILL WITH CONTROLLED LOW STRENGTH MATERIAL.

Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1982 CHARLES W. CUTTING 10/17/25
EXPIRES: 12/31/2025

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CIVIL - PARKING AREA AND INTAKE EXCAVATION AND GRADING SECTIONS (1)

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

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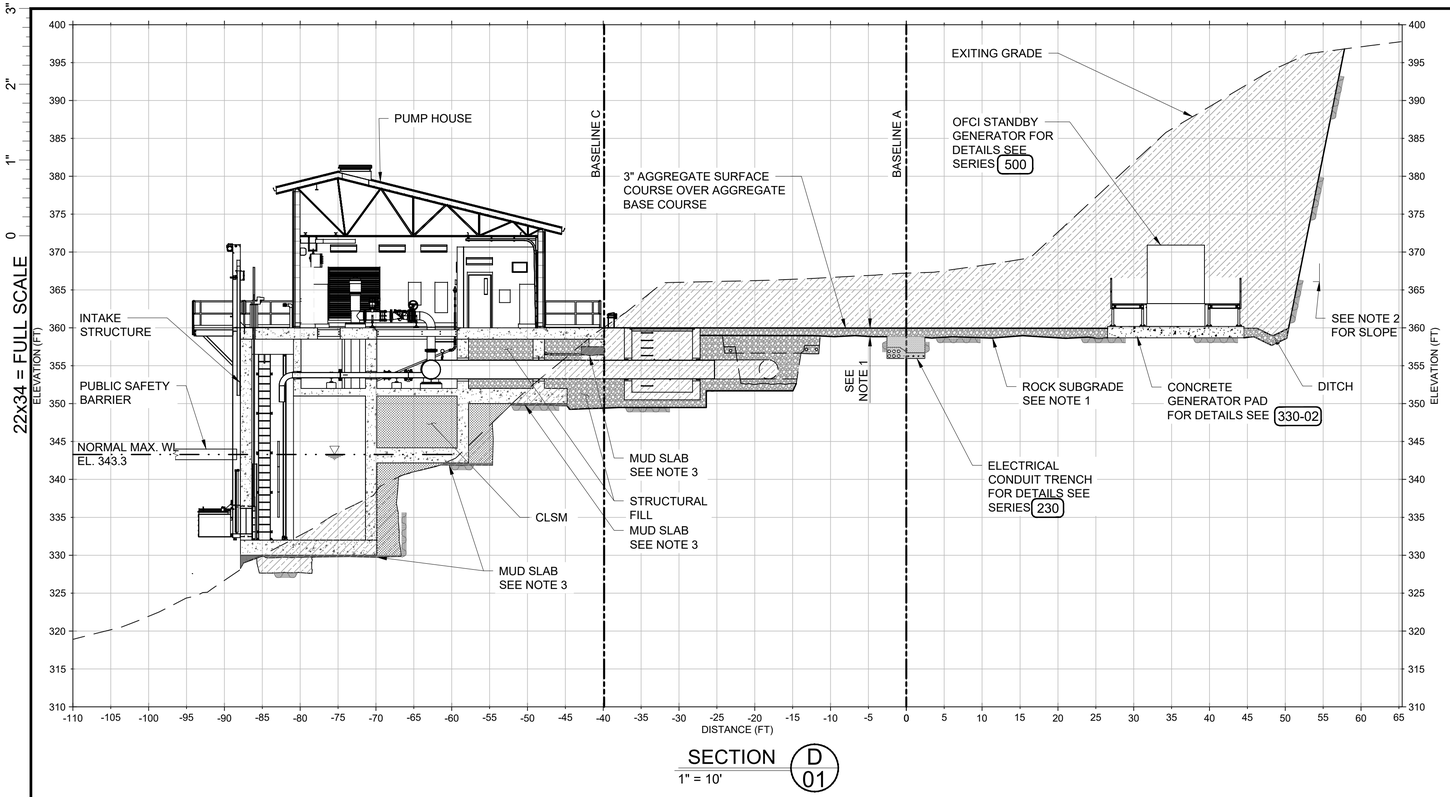
Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
CM	BJL	CM	5002-001	10-17-25	220-02

PRINTED: Oct. 21, 2025 - 8:57 AM K:\Jobs\5002001\Drawings\CAD\WORKING DRAWINGS\Joint Pump And Pipeline Project Design Set\5002001 220-02.dwg



SECTION D 01
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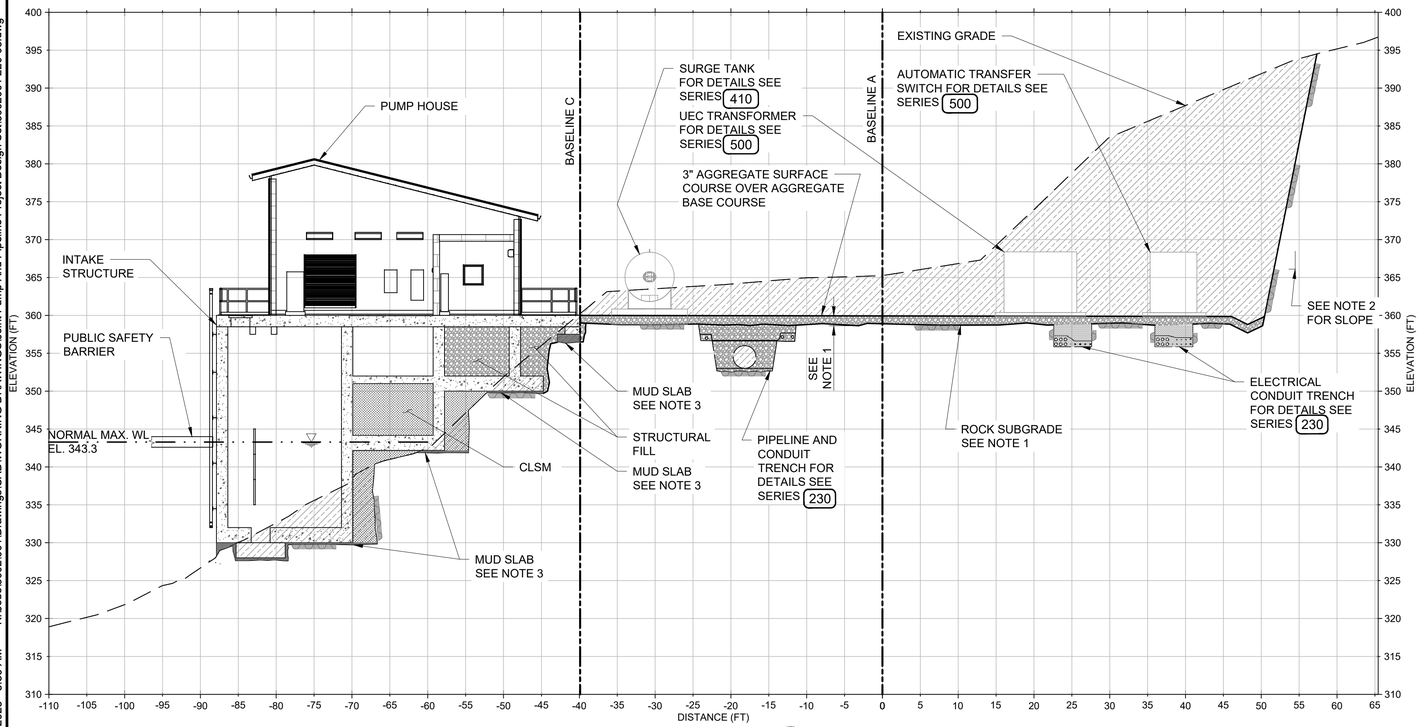

SECTION E 01
1" = 10'

10' 0 10' 20'
SCALE IN FEET

NOTES:

1. ROCK SUBGRADE TO HAVE MINIMUM 12" MUD SLAB OR EARTHWORK COVERAGE; ALL OTHER SUBGRADE TO HAVE MINIMUM 24" COVERAGE. REFERENCE TYPICAL SECTION ON 210-02.
2. ADJUST CUT SLOPE TO SUIT ACTUAL FIELD CONDITIONS OF ROCK QUALITY: FRESH = 1H:8V TO VERTICAL; WEATHERED-STAINED = 1H:4V TO 1H:8V; PARTIALLY DECOMPOSED ROCK = 1H:4V TO 1H:1V WITH NO REVEAL; COMMON = 1.5H:1V.
3. ROCK EXCAVATION TO PROVIDE MUD SLAB (AS NEEDED) BELOW CONCRETE FOUNDATION AND 3 FT BEHIND CONCRETE WALL (OR AS NEEDED) TO ALLOW DOUBLE FORM. BACK FILL WITH CONTROLLED LOW STRENGTH MATERIAL.
4. PRIOR TO COFFERDAM REMOVAL, PLACE RESTORATION FILL BETWEEN INTAKE STRUCTURE AND COFFERDAM TO RESTORE THE EXCAVATED AREA TO ITS ORIGINAL CONTOURS.

REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1982 CHARLES W. CUTTING 10/17/25
EXPIRES: 12/31/2025

811 Know what's below. Call before you dig.

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

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Designed	Drawn	Checked
CM	BJL	CM

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CIVIL - PARKING AREA AND INTAKE EXCAVATION AND GRADING SECTIONS (2)

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Project No.	Date Revised	Drawing No.
5002-001	10-17-25	220-03

PRINTED: Oct. 21, 2025 - 8:59 AM
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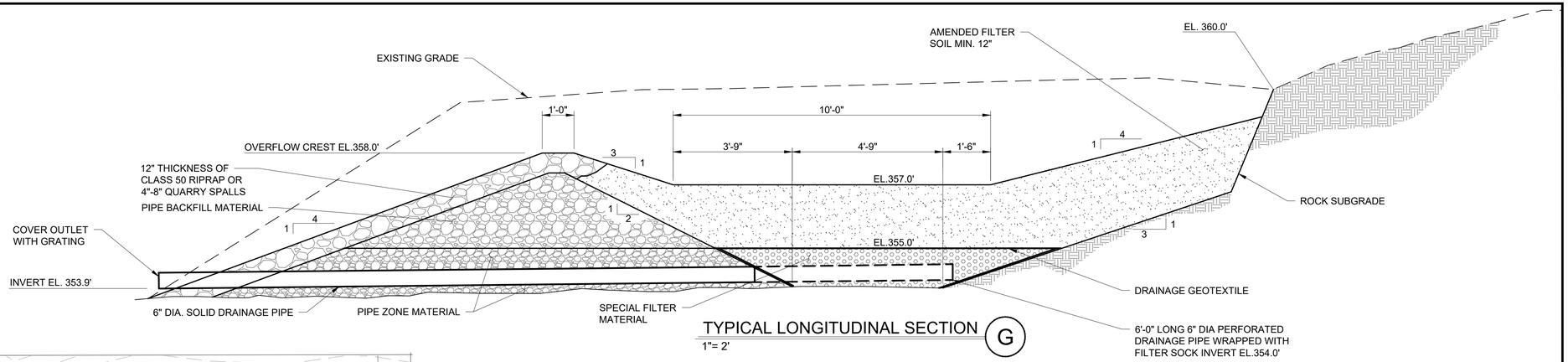
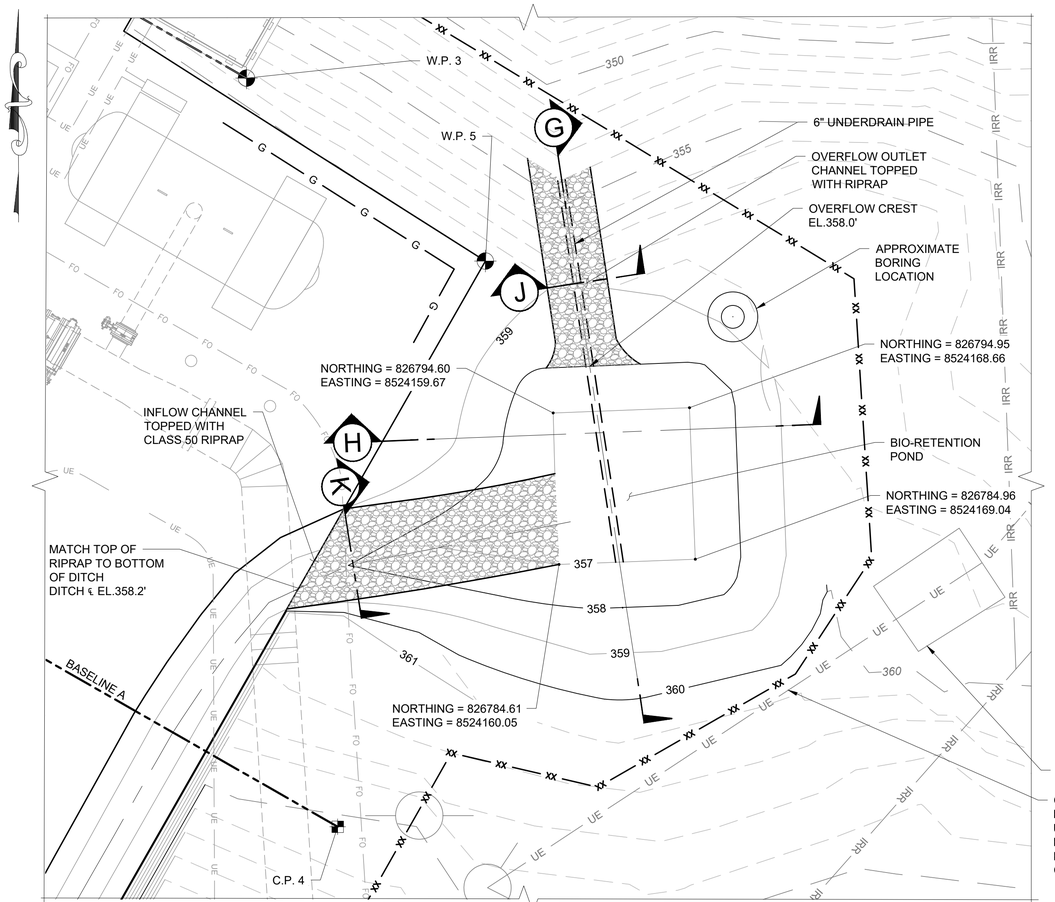
22x34 = FULL SCALE
0 1" 2" 3"

22x34 = FULL SCALE



TYPICAL LONGITUDINAL SECTION G

1"= 2'

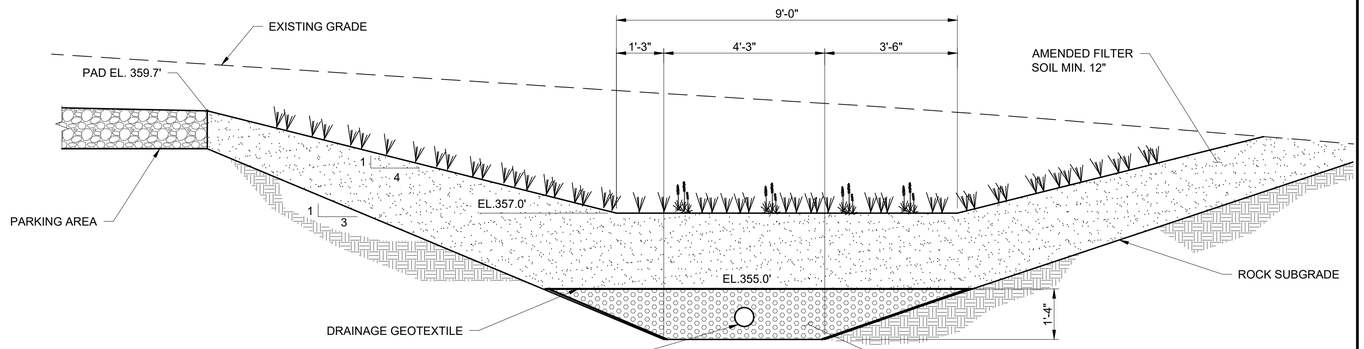


BIO-RETENTION POND PLAN 01/01

1"= 5'

5' 0 5' 10'

SCALE IN FEET

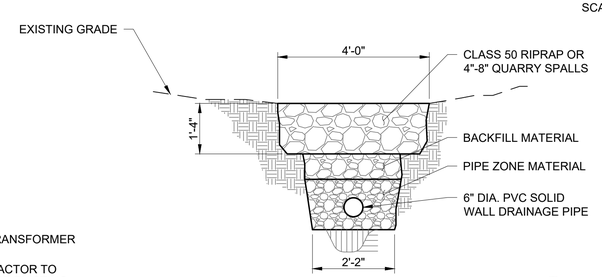


TYPICAL CROSS SECTION H

1"= 2'

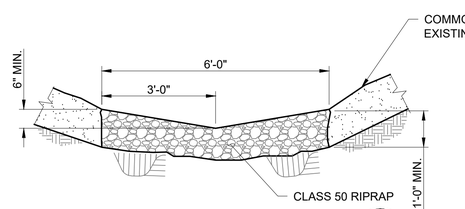
2' 0 2' 4'

SCALE IN FEET



OUTLET DRAINPIPE TRENCH SECTION J

1"= 2'



INFLOW CHANNEL SECTION K

1"= 2'

LEGEND

UE UE	NEW UNDERGROUND ELECTRIC
FO FO	NEW UNDERGROUND FIBER OPTIC
XX XX	NEW SECURITY FENCE
G G	NEW VEHICULAR GUARDRAIL
	PROPERTY LINE
	WATERLINE
OE OE	EXISTING OVERHEAD ELECTRIC
UE UE	EXISTING UNDERGROUND ELECTRIC
IRR IRR	EXISTING PIPELINE

Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1982 CHARLES W. CUTTING 10/17/25

EXPIRES: 12/31/2025

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

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CM	BJL	CM	5002-001	10-17-25	220-04

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CIVIL - PARKING AREA AND INTAKE
EXCAVATION AND GRADING BIO-RETENTION
PLAN AND SECTIONS

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22x34 = FULL SCALE
3" 2" 1" 0
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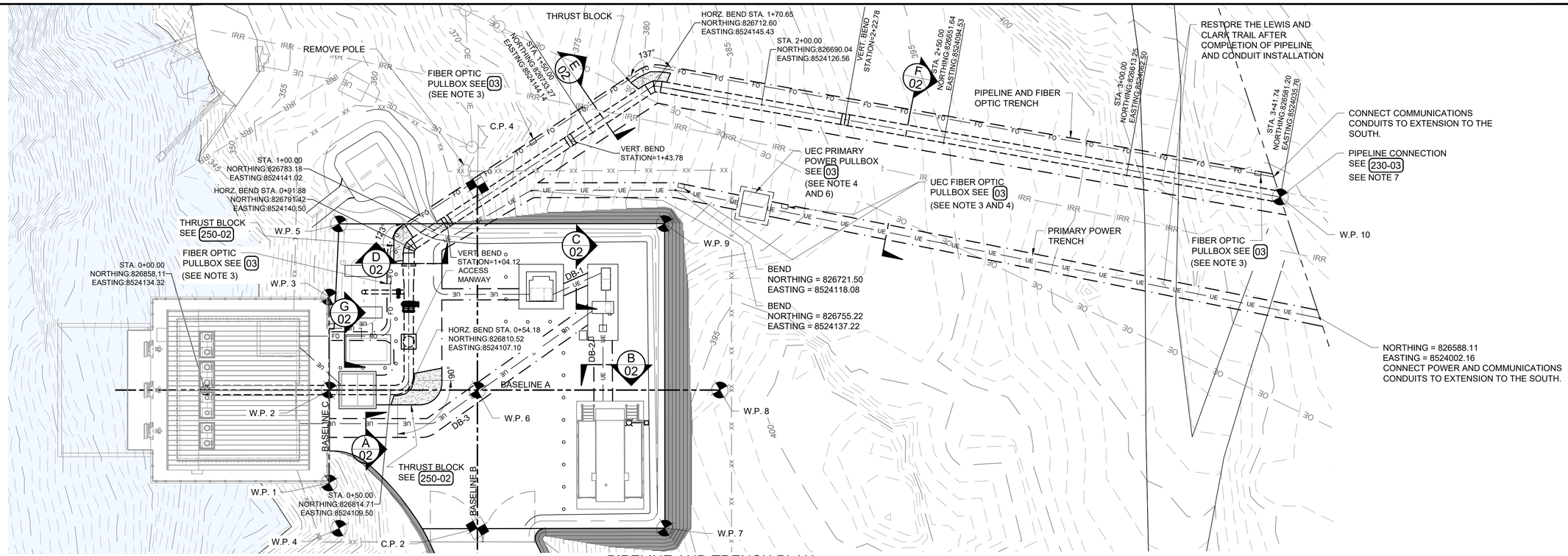
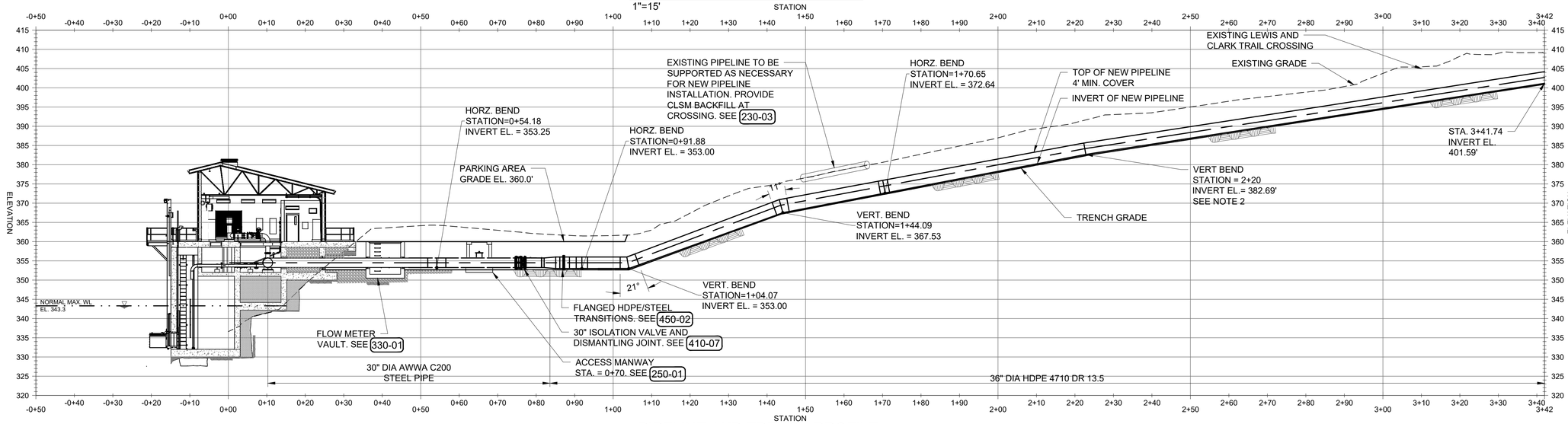
PRINTED May. 20, 2026 - 5:45 PM



PIPELINE AND TRENCH PLAN

1"=15'



PIPELINE AND TRENCH PROFILE

1"=15'

SCALE IN FEET: 15 0 15 30

LEGEND

UE — UE	NEW UNDERGROUND ELECTRIC		EASEMENT
FO — FO	NEW UNDERGROUND FIBER OPTIC		NEW OVERHEAD LIGHT FIXTURE
G — G	NEW VEHICULAR GUARDRAIL		NEW BURIED PIPELINE
XX — XX	NEW SECURITY FENCE		NEW TRENCH
	PROPERTY LINE		
	WATERLINE		
OE — OE	EXISTING OVERHEAD ELECTRIC		
UE — UE	EXISTING UNDERGROUND ELECTRIC		
IRR — IRR	EXISTING PIPELINE		

NOTES:
1. ALL BENDS SHALL BE SHOP FABRICATED, MITERED CONSTRUCTION. MAXIMUM DEFLECTION SHALL BE 22.5 DEGREES PER MITER.
2. USE HDPE PIPE MANUFACTURER'S RECOMMENDATIONS FOR MINIMUM FIELD BEND RADIUS.
3. SEE SHEET 500-01 FOR ELECTRICAL AND COMMUNICATIONS CONDUIT DETAILS.
4. COORDINATE NEED, NUMBER, SIZE, AND LOCATION OF PULLBOXES WITH UEC.
5. POLYPROPYLENE PULL ROPE, MIN. 3/8" (TYP.) FOR ALL ELECTRICAL AND FIBER OPTIC CONDUIT.
6. TRENCH SHALL BE WIDENED FOR CONDUIT ROUTING AROUND PULLBOX.
7. PIPELINE LINE, GRADE, AND SLOPE SHALL BE SUFFICIENTLY ACCURATE FOR CONNECTION TO THE PIPELINE TO THE SOUTH WITHOUT PLACING EXCESSIVE STRAIN OR FORCE ON THE PIPES.

REGISTERED PROFESSIONAL ENGINEER 15673 OREGON MAY 19, 1992 CHARLES W. CUTTING
5/15/27
EXPIRES: 12/31/2027

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No.	Revision	Date	Drawn	Checked
1	ISSUED FOR BID	05-20-26	BJL	CWC
0	ISSUED FOR BID	10-17-25	BJL	CWC

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CIVIL - PIPELINE AND TRENCH PLAN AND PROFILE

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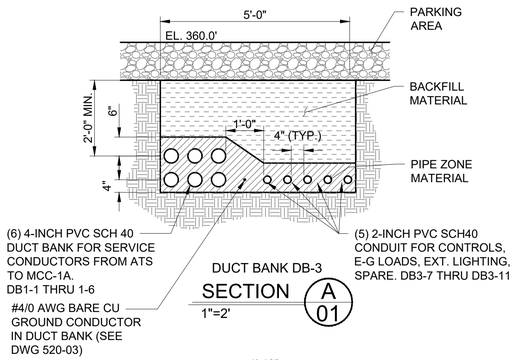
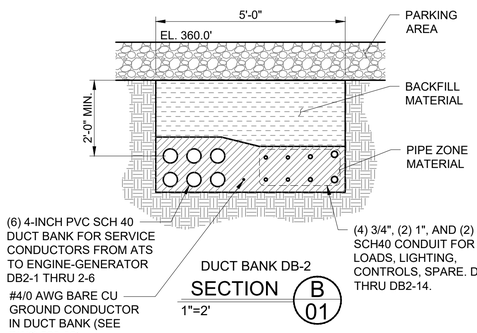


DUCT BANK DB-3

SECTION A 01

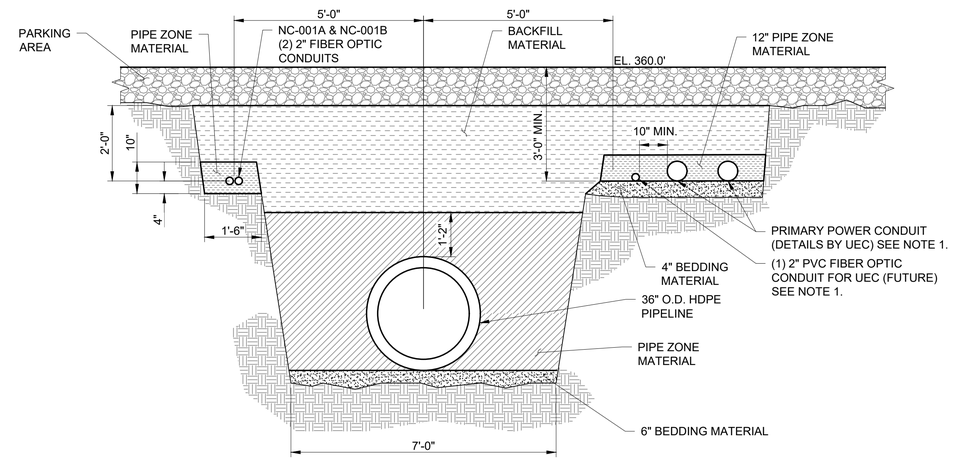
1"=2'



DUCT BANK DB-2

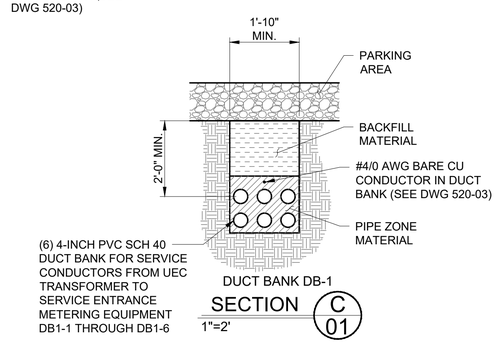
SECTION B 01

1"=2'



SECTION D 01

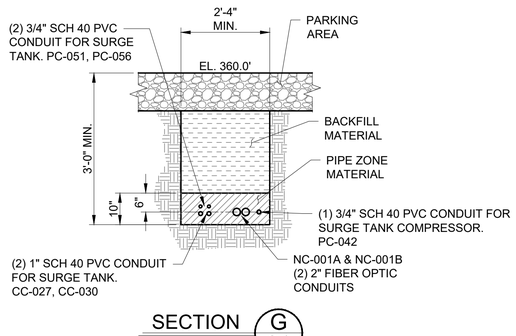
1"=2'



DUCT BANK DB-1

SECTION C 01

1"=2'

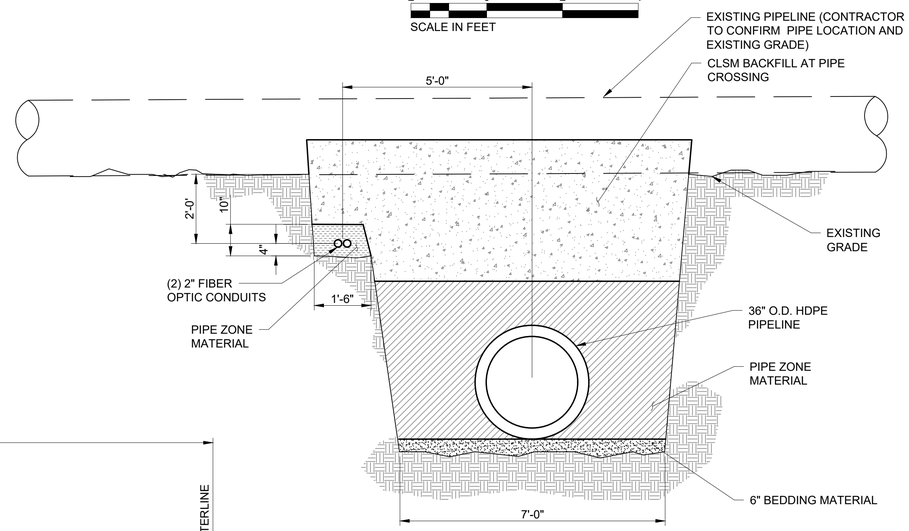


SECTION G 01

1"=2'

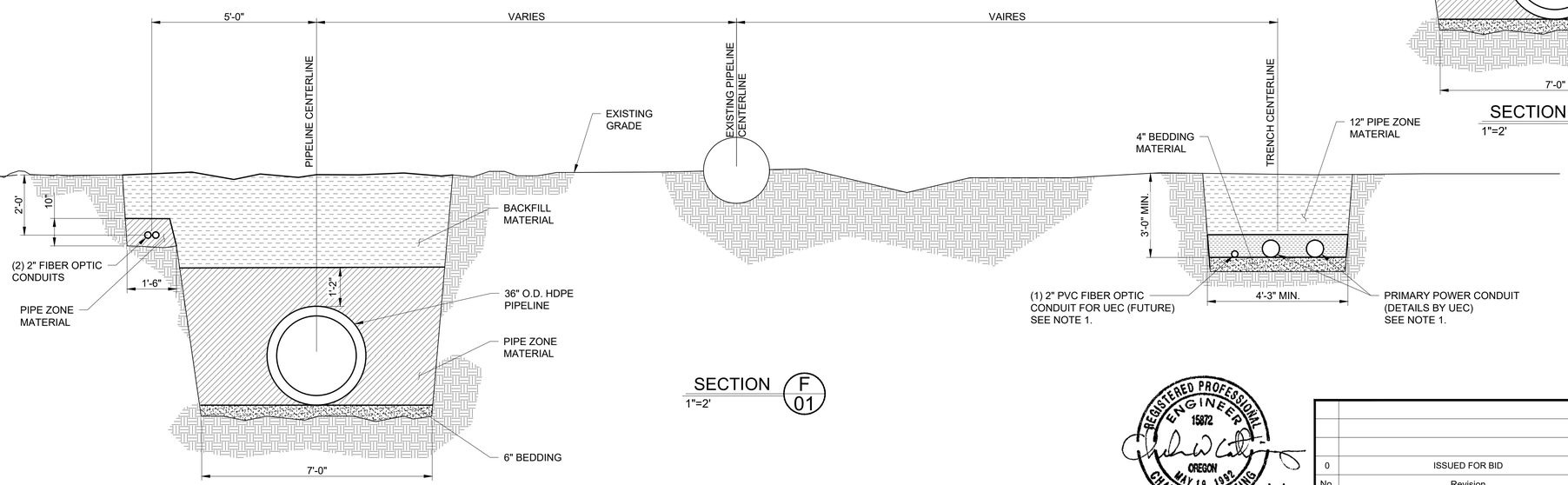
2' 0 2' 4'

SCALE IN FEET



SECTION E 01

1"=2'



SECTION F 01

1"=2'

NOTES:
1. CONDUIT FURNISHED BY UEC, INSTALLATION BY CONTRACTOR.
2. SEE SHEET 500-01 FOR ADDITIONAL POWER AND COMMUNICATIONS CONDUIT DETAILS.

811 Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1982 CHARLES W. CUTTING 10/17/25

EXPIRES: 12/31/2025

No.	Revision	Date	Drawn	Checked
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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CIVIL - PIPELINE AND TRENCH SECTIONS

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CM	BJL	CM	5002-001	10-17-25	230-02

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3" 2" 1" 0 22x34 = FULL SCALE

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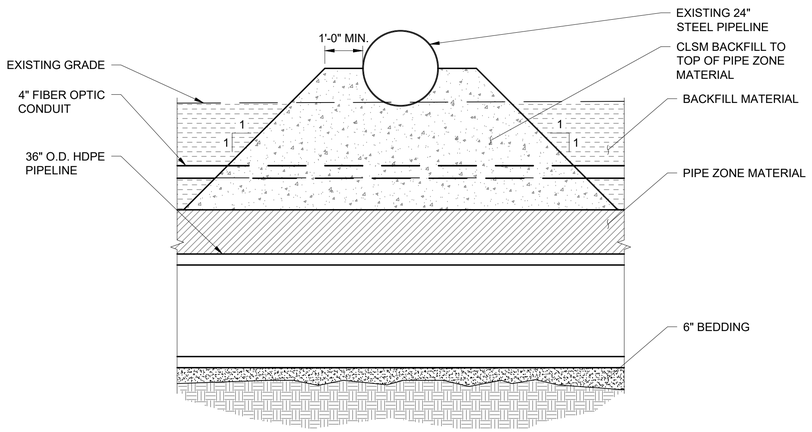
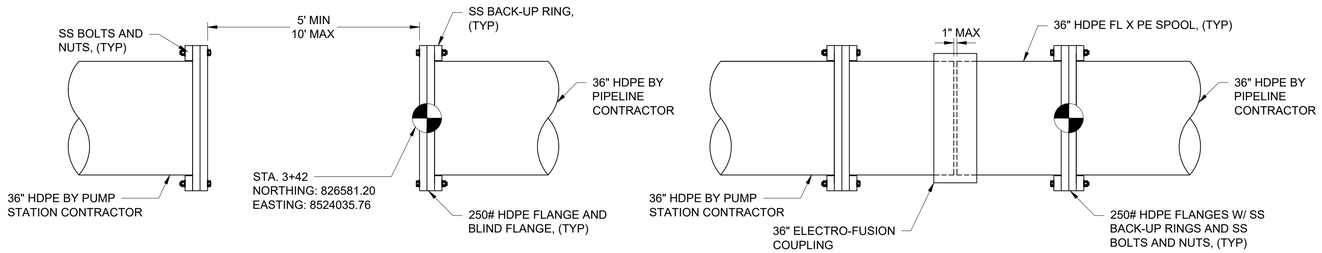


PIPE CROSSING DETAIL

1"=2'

2 0 2 4

SCALE IN FEET



CONNECTION - PHASE 1

NTS

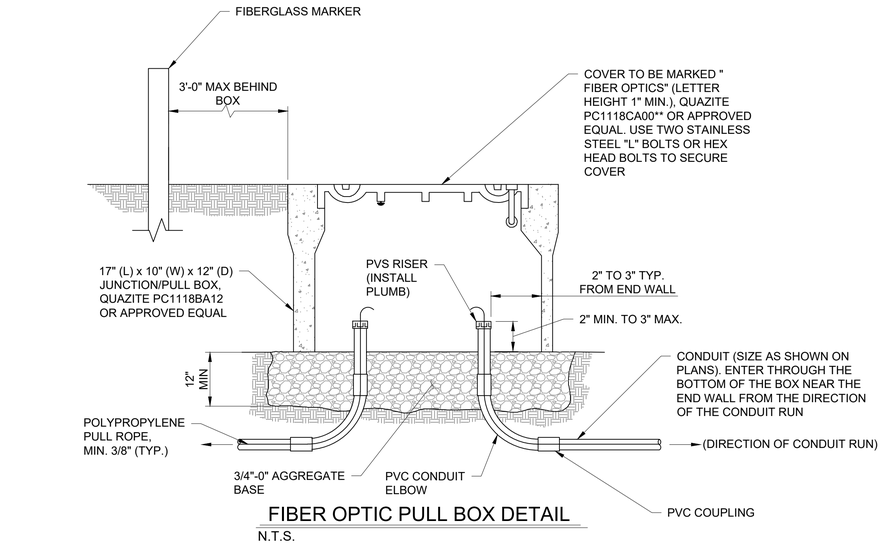
NOTES:
1. PROVIDE FILL, DRAIN, AND AIR RELEASE CONNECTIONS IN BLIND FLANGE FOR PRESSURE TESTING.
2. DO NOT REMOVE BLIND FLANGES UNTIL COMPLETION OF PRESSURE TESTS ON BOTH PIPELINE SECTIONS.

CONNECTION - PHASE 2

NTS

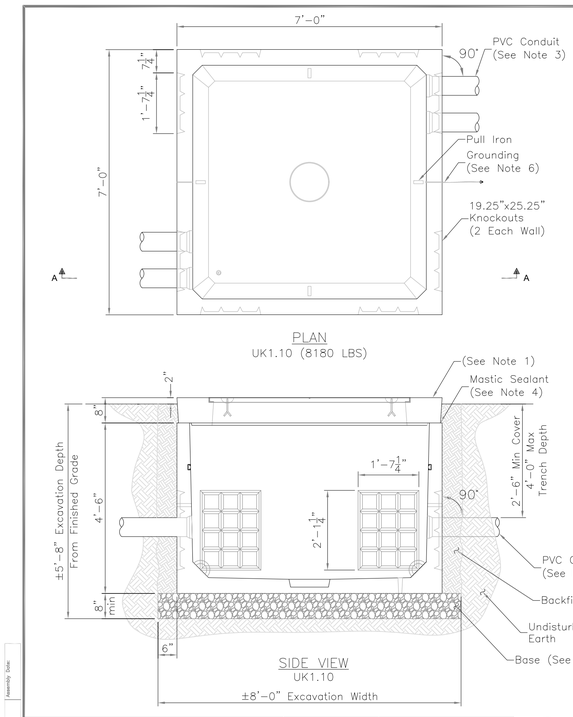
NOTES:
1. FIELD TRIM SPOOLS TO FIT.
2. COMPLETE FLANGE CONNECTIONS PRIOR TO ELECTRO-FUSION.
3. COMPLETE ELECTRO-FUSION WHEN PIPE AND AIR TEMPERATURES ARE BETWEEN 50°F AND 70°F.
4. LEAVE TRENCH OPEN TO ALLOW VISUAL LEAK INSPECTION DURING PUMP STATION COMMISSIONING.

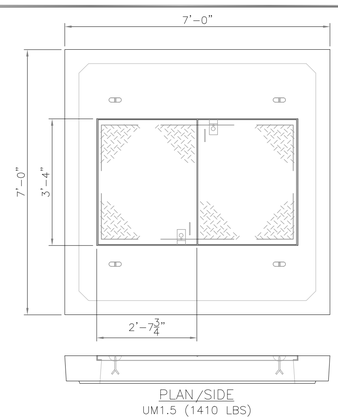
PIPELINE CONNECTION DETAILS



FIBER OPTIC PULL BOX DETAIL

N.T.S.





CONSTRUCTION NOTES

1. Set vault so top of lid UM1.5 is 2 inches above (UM1.5TR flush with) final grade and level each way
2. Vault foundation shall be minimum 8 inches of 5/8 inch crushed rock. Well compacted and extended a minimum of 6 inches beyond vault on all sides. Rock is to prevent settling and may require additional compacted material depending on existing soil conditions
3. Conduit should lay flat in trench and enter perpendicular to the vault wall vertically and horizontally. Conduit should end flush with the inside of the vault. Apply grout to fill all voids around conduit opening. Grout should be finished smooth and flush with vault wall. Primary conduit should have a 36" minimum depth of cover. The bottom of the trench should be in undisturbed, tamped, or relatively smooth earth. In rocky soil, the conduit shall be laid on a protective layer of clean, tamped select backfill at least six (6) inches thick.
4. Apply mastic sealant for concrete-to-concrete joints
5. The vault shall be located so that no part of the equipment is closer than 10 feet to a combustible surface, windows, doors, or 3 feet to a non-combustible surface. Concrete barriers and other obstructions shall be clear 10 feet from the front face of equipment for maintenance access. Bollards can be placed within 10' but outside of front face to allow opening of equipment doors
6. Ground rod and conductor to be supplied by UEC. Installation and termination by contractor.

PART #	VENDOR	PHONE
Vault: 775-LA-B-GRD-UMATILLA	Old Castle	(503) 682-2844
Top (Standard): 77-8-T-352P	Old Castle	(503) 682-2844
Top (Traffic): 77-30MHF&CCAST	Old Castle	(503) 682-2844

UEC Engineering: 541-564-4347
UEC Operations: 541-564-4358
UMATILLA ELECTRIC COOPERATIVE
A Touchstone Energy® Cooperative

VAULT, 7' x 7' x 4'6" AND STANDARD PADS

JUNE 2023 | RUS | 3 - PHASE PRIMARY 12.47/7.2 kV | UK1.10 UM1.5C UM1.5TR

Know what's below. Call before you dig.

PRIMARY POWER VAULT DETAIL

N.T.S.

REGISTERED PROFESSIONAL ENGINEER 15673 OREGON MAY 19, 1992 CHARLES W. CUTTING
5/15/27
EXPIRES: 12/31/2027

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Project No.	Date Revised	Drawing No.
5002-001	05-20-26	230-03

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CIVIL - PIPELINE AND TRENCH SECTIONS

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22x34 = FULL SCALE

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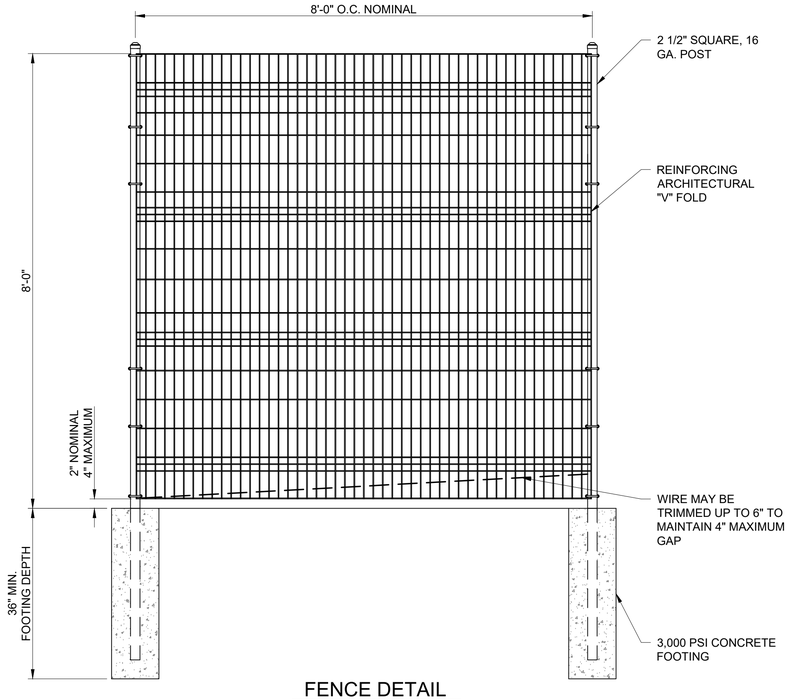
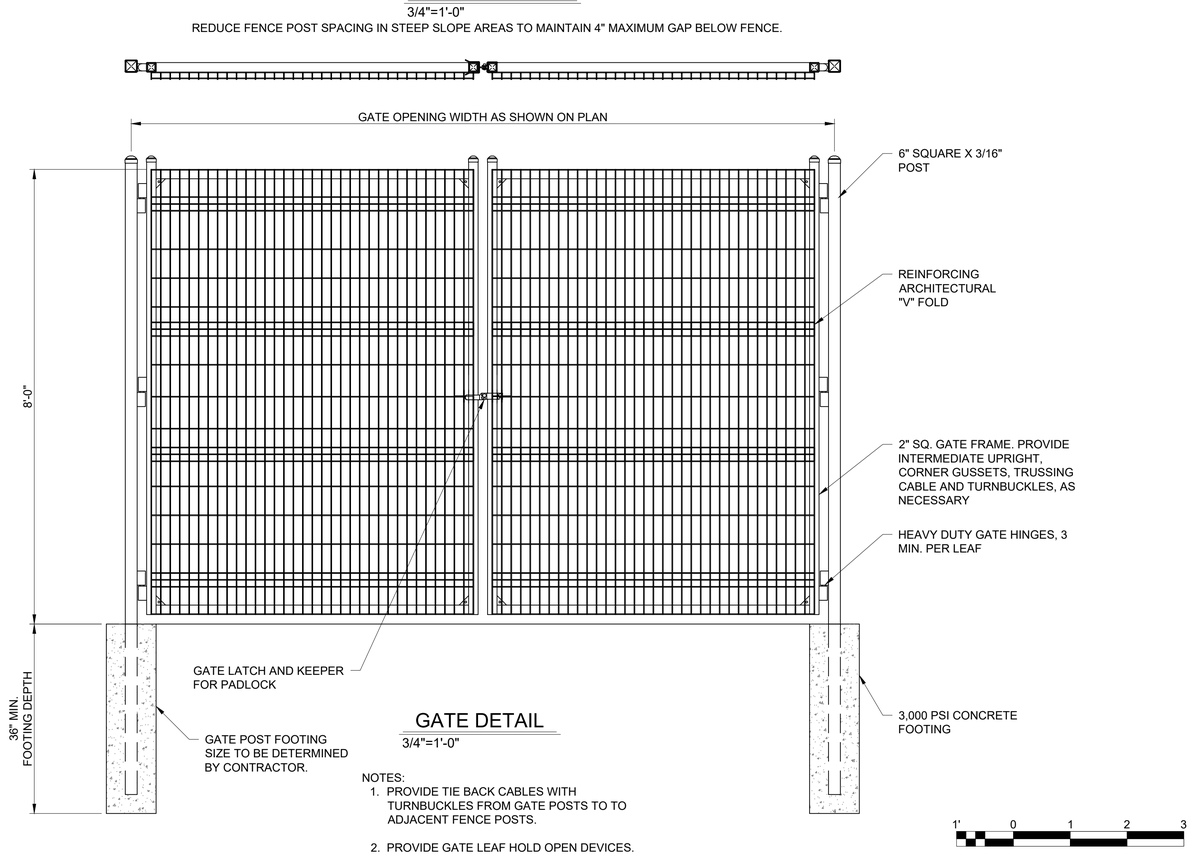


FENCE DETAIL

3/4"=1'-0"

REDUCE FENCE POST SPACING IN STEEP SLOPE AREAS TO MAINTAIN 4" MAXIMUM GAP BELOW FENCE.

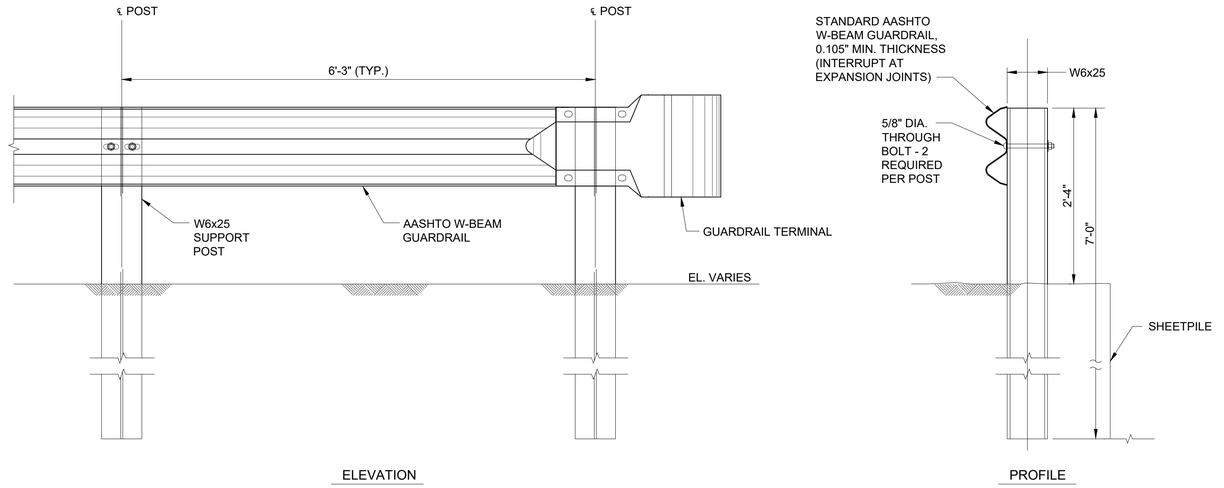


GATE DETAIL

3/4"=1'-0"

NOTES:
1. PROVIDE TIE BACK CABLES WITH TURNBUCKLES FROM GATE POSTS TO TO ADJACENT FENCE POSTS.
2. PROVIDE GATE LEAF HOLD OPEN DEVICES.

1' 0 1 2 3

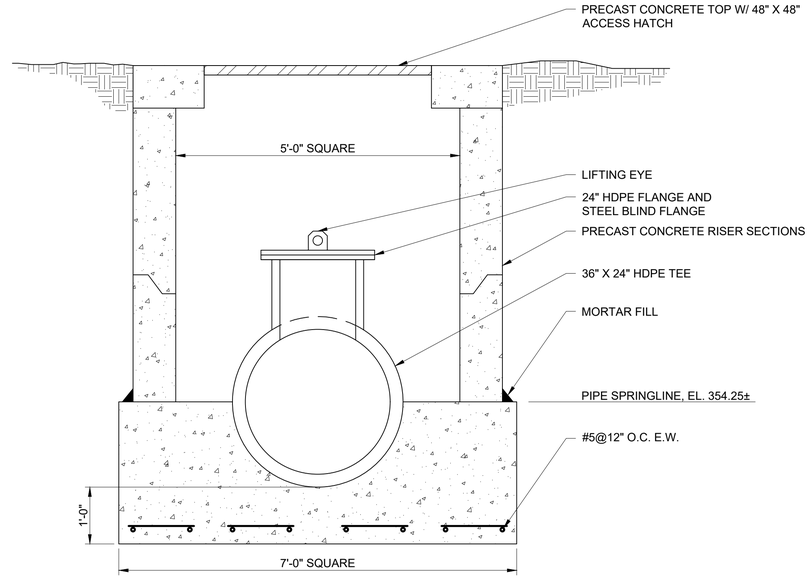


TYPICAL VEHICULAR GUARDRAIL ELEVATION AND SECTION

1"= 1'-0"

NOTE: ALL COMPONENTS SHALL BE HOT DIPPED GALVANIZED.

1" 0 1 2



ACCESS MANWAY DETAIL

3/4"=1'-0"

NOTES:
1. PROVIDE STEEL BACKUP RING FOR HDPE FLANGE
2. ALL BOLTS AND HARDWARE TO BE STAINLESS STEEL

Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1992 CHARLES W. CUTTING 10/17/25

EXPIRES: 12/31/2025

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
-	BJL	CM	5002-001	10-17-25	250-01

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT

CIVIL - TYPICAL DETAILS
GENERAL DETAILS

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22x34 = FULL SCALE 0 1" 2" 3"

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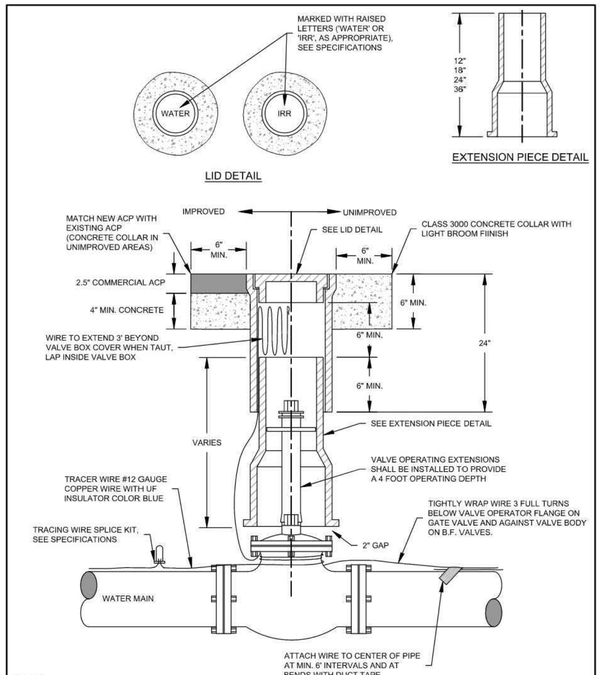
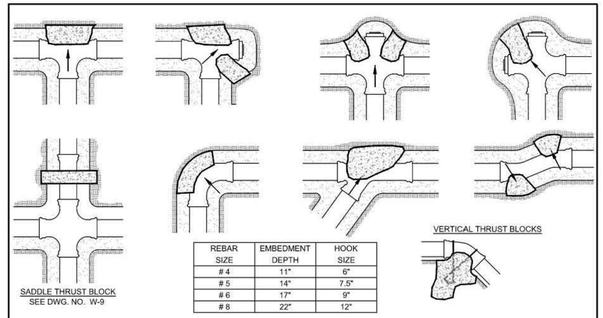


NOTES:

1. BUTTERFLY VALVES SHALL BE ORIENTED SUCH THAT THE OPERATING NUT AND VALVE BOX SHALL BE NEAR THE CENTERLINE.
2. SEE DWG. NO. W-20 FOR BEDDING.

	PUBLIC WORKS ENGINEERING
CAST IRON VALVE BOX	DATE: 10/5/21
	DWG: W-4

DETAIL 1 - TYPICAL CAST IRON VALVE BOX



REBAR SIZE	EMBEDMENT DEPTH	HOOK SIZE
# 4	11"	6"
# 5	14"	7.5"
# 6	17"	9"
# 8	22"	12"

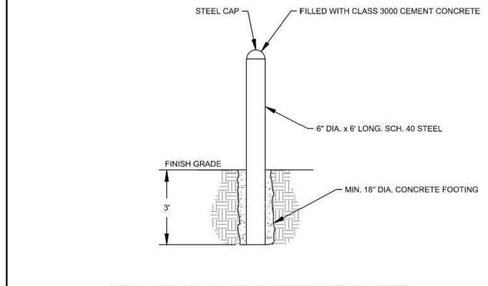
	HORIZONTAL THRUST BLOCKS MIN. BEARING AREA IN SQUARE FEET				VERTICAL THRUST BLOCKS MIN. VOLUME IN CUBIC YARDS			
Pipe Size in Inches	Tees, Wyes & Dead Ends	90° Bend	45° Bend	11 1/4° & 22 1/2° Bend	45° Vertical Bend Min Vol	45° Vertical Bend Size	11 1/4° & 22 1/2° Vertical Bend Min Vol	11 1/4° & 22 1/2° Vertical Bend Size
4	1	1.5	1	0.4	0.5	# 4	0.2	# 4
6	2	3	1.5	0.8	1	# 4	0.5	# 4
8	4	6	3	1.5	1.5	# 4	1	# 4
10	6	9	5	2.3	2.5	# 4	1.5	# 4
12	9	12	7	4	3.5	# 4	2	# 4
14	12	16	9	5	4.5	# 4	2.5	# 4
16	15	21	12	6	6	# 4	3	# 4
18	19	27	15	8	7.5	# 5	4	# 4
20	24	33	18	9	9	# 5	5	# 4
24	34	48	26	13	13	# 6	7	# 4

NOTES:

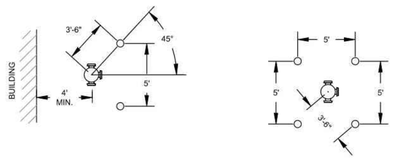
1. THRUST BLOCKING TO BE STRUCTURAL CONCRETE PER SPECIFICATIONS, MAX. SLUMP OF 4".
2. THE TABULATIONS ARE BASED UPON A MAXIMUM WATER PRESSURE OF 150 PSI AND A SAFE BEARING CAPACITY OF 2,000 LBS. PER SQ. FOOT ADJUST FOR OTHER VALUES OF PRESSURE.
3. KEEP CONCRETE CLEAR OF JOINTS AND ACCESSORIES.
4. ALL THRUST BLOCKS MUST BE FORMED WITH PLYWOOD OR OSB AND INSPECTED. BY CITY WATER DEPARTMENT.
5. JOINTS TO BE WRAPPED POLYETHYLENE 3 MIL.
6. MECHANICALLY RESTRAINED PIPE AND FITTINGS MAY BE USED IN LIEU OF THRUST BLOCKING, SEE UMATILLA SPECIFICATIONS 01140.44

	PUBLIC WORKS ENGINEERING
CONCRETE THRUST BLOCKING	DATE: 10/5/21
	DWG: W-8

DETAIL 2 - TYPICAL CONCRETE THRUST BLOCKING



TYPICAL GUARD POST REQUIREMENTS. OTHER CONFIGURATIONS MAY BE REQUIRED BY THE CITY ENGINEER, SUBJECT TO FIELD CONDITIONS.

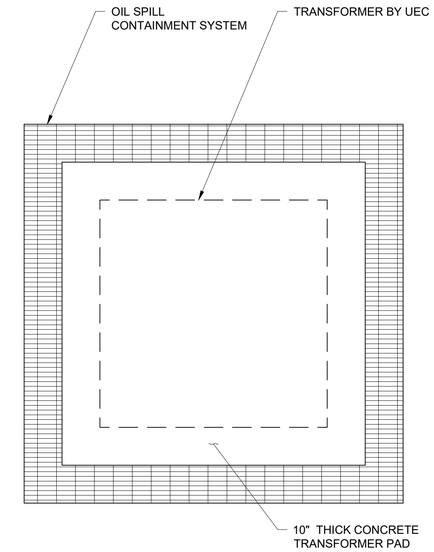


NOTES:

1. CENTER OF GUARD POST TO BE SET 3' - 6" FROM HYDRANT CENTER NUT.
2. GUARD POSTS OUTSIDE OF THE RIGHT-OF-WAY ARE NOT REQUIRED IF THE FACE OF A MINIMUM SIX-INCH HIGH CURB IS LOCATED A MINIMUM OF 3' - 0" HORIZONTALLY FROM THE HYDRANT CENTER NUT.
3. DO NOT INSTALL GUARD POST IN LINE WITH HYDRANT PORTS.
4. CONCRETE SHALL BE PER SPECIFICATIONS.
5. GUARD POSTS SHALL BE PLUMB.
6. GUARD POSTS SHALL BE PAINTED OSHA YELLOW.

	PUBLIC WORKS ENGINEERING
BOLLARD	DATE: 10/5/21
	DWG: W-12

DETAIL 3 - TYPICAL BOLLARD



UTILITY TRANSFORMER PAD

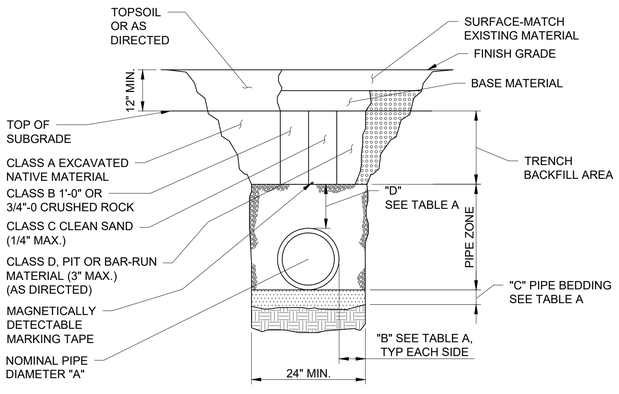
N.T.S.

NOTES:

1. TRANSFORMER WILL BE FURNISHED AND INSTALLED BY U.E.C, COORDINATE TRANSFORMER PAD SIZE AND CONDUIT BLOCKOUT SIZES AND LOCATIONS WITH U.E.C. ESTIMATED PAD SIZE IS 12' BY 12'.
2. OIL SPILL CONTAINMENT SYSTEM TO BE SPI OIL CONTAINMENT SHIELD AS MANUFACTURED BY SOLIDIFICATION PRODUCTS INTERNATIONAL OR APPROVED EQUAL. MINIMUM CONTAINMENT CAPACITY TO BE 750 GALLONS.
3. TRANSFORMER PAD MAY BE CAST-IN-PLACE OR PRECAST CONCRETE AT CONTRACTORS OPTION. MINIMUM REINFORCEMENT TO BE #4 AT 8" ON CENTER EACH WAY

A	B	C	D
4	10	4	8
6	10	4	8
8	10	6	4
10	10	6	10
12	12	6	10
15	12	6	10
18	16	6	12
21	16	6	12
24	18	6	12
30	18	6	12
36	24	6	14
42	24	6	14
48	24	6	14
54	24	6	14
60	24	6	14
66	24	6	14
72	24	6	14

TABLE A



DETAIL 4 - TYPICAL TRENCH SECTION

N.T.S.

MULTIPLE INSTALLATIONS	
DIA	
DIAMETER	MIN. SPACE BETWEEN PIPES
UP TO 48"	24"
48" TO 72"	ONE HALF DIA OF PIPE

PIPE SIZE IN INCHES	HORIZONTAL THRUST BLOCKS MIN. BEARING AREA IN SQUARE FEET				VERTICAL THRUST BLOCKS MIN. VOLUME IN CUBIC YARDS			
	TEES, WYES & DEAD ENDS	90° BEND	45° BEND	11 1/4° & 22 1/2° BEND	45° VERTICAL BEND MIN VOL	45° VERTICAL BEND SIZE	11 1/4° & 22 1/2° VERTICAL BEND MIN VOL	11 1/4° & 22 1/2° VERTICAL BEND SIZE
30	53	78	44	22	22.5	#6	12	#5
36	77	113	63	32	32.5	#6	17.5	#6

CONCRETE THRUST BLOCK - LARGER PIPES

REFER TO NOTES ON DETAIL 2 THIS SHEET FOR MORE INFORMATION

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10/17/25
EXPIRES: 12/31/2025

No.	Revision	Date	Drawn	Checked
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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT

CIVIL - TYPICAL DETAILS
GENERAL DETAILS

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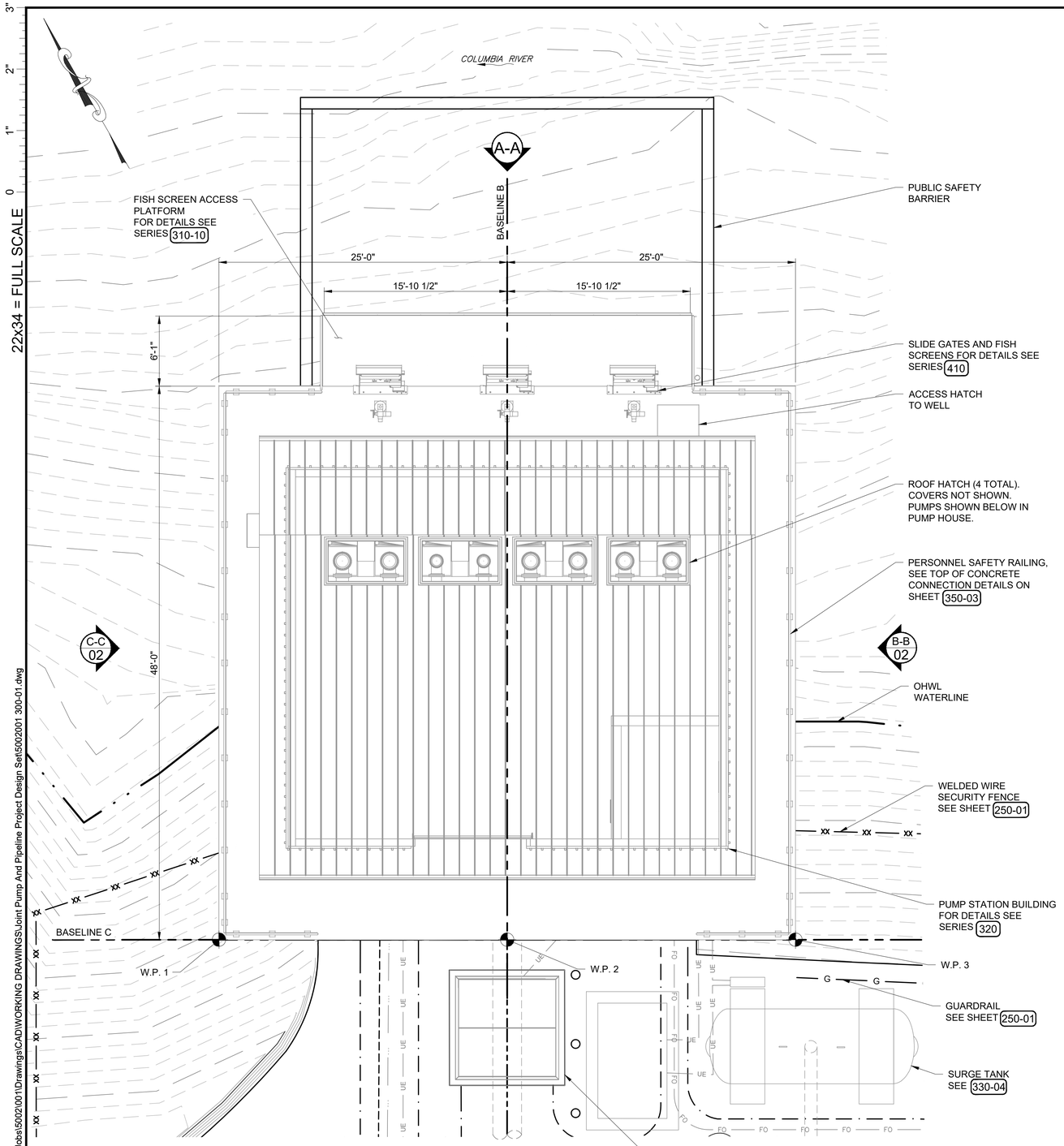
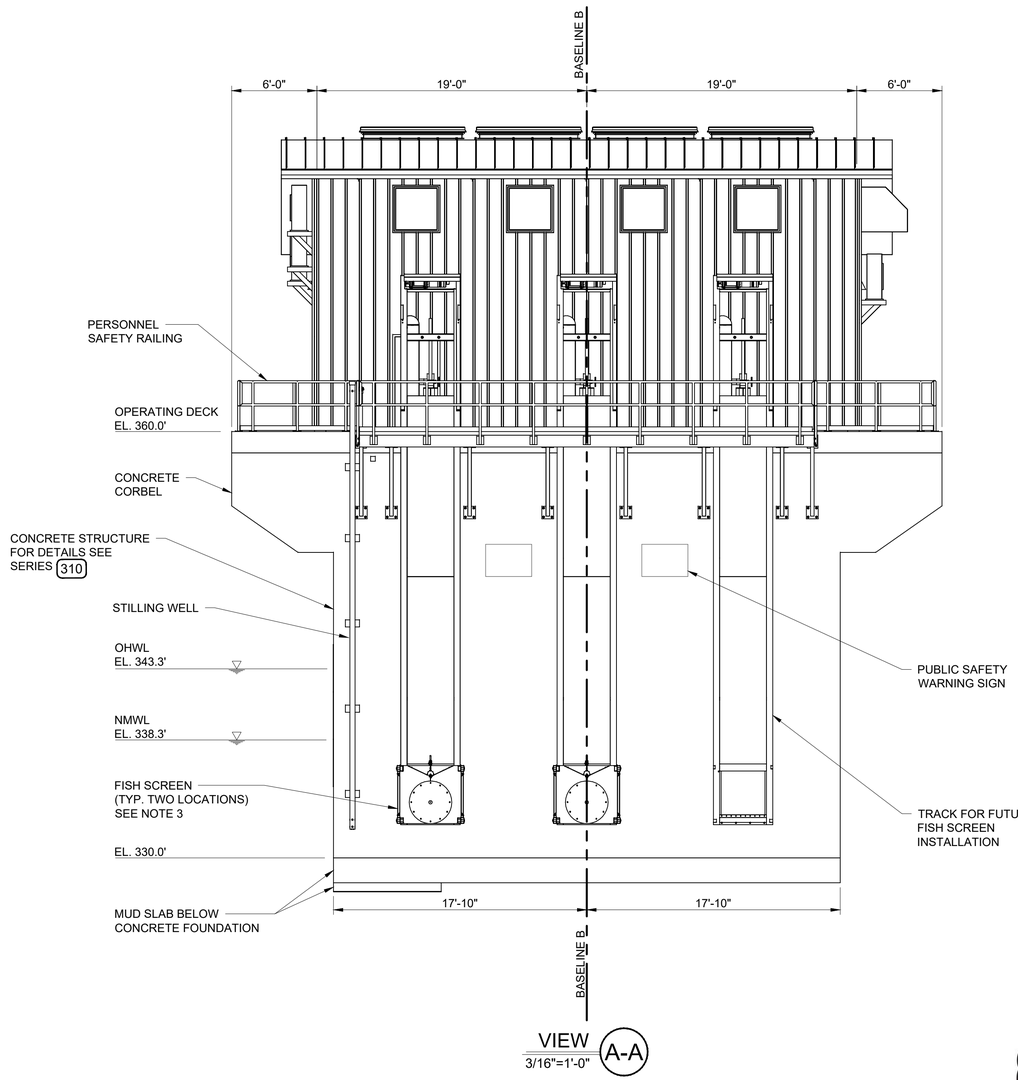
22x34 = FULL SCALE 0 1" 2" 3"



PUMP STATION PLAN

3/16"=1'-0"



VIEW A-A

3/16"=1'-0"

GENERAL NOTES:

1. FOR MECHANICAL AND ELECTRICAL DRAWINGS SEE 400 AND 500 SHEETS, RESPECTIVELY.
2. EXPOSED CONCRETE CORNERS, AND EDGES SHALL HAVE 3/4" CHAMFERS. RE-ENTRACT CORNERS SHALL NOT HAVE FILLETS.
3. THREE SLUICE GATES TO BE INSTALLED IN WET WELL AND TWO FISH SCREENS TO BE INSTALLED AS SHOWN.
4. PRIOR TO COFFERDAM REMOVAL, PLACE RESTORATION FILL BETWEEN INTAKE STRUCTURE AND COFFERDAM TO RESTORE THE EXCAVATED AREA TO ITS ORIGINAL CONTOURS.

5' 0 5 10

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90165PE
OREGON
NEIL M. SCHWEITZER
SEPT 10, 2019
EXPIRES: 06/30/2026

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - GENERAL ARRANGEMENT
PLAN & ELEVATION

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5002-001	10-17-25	300-01

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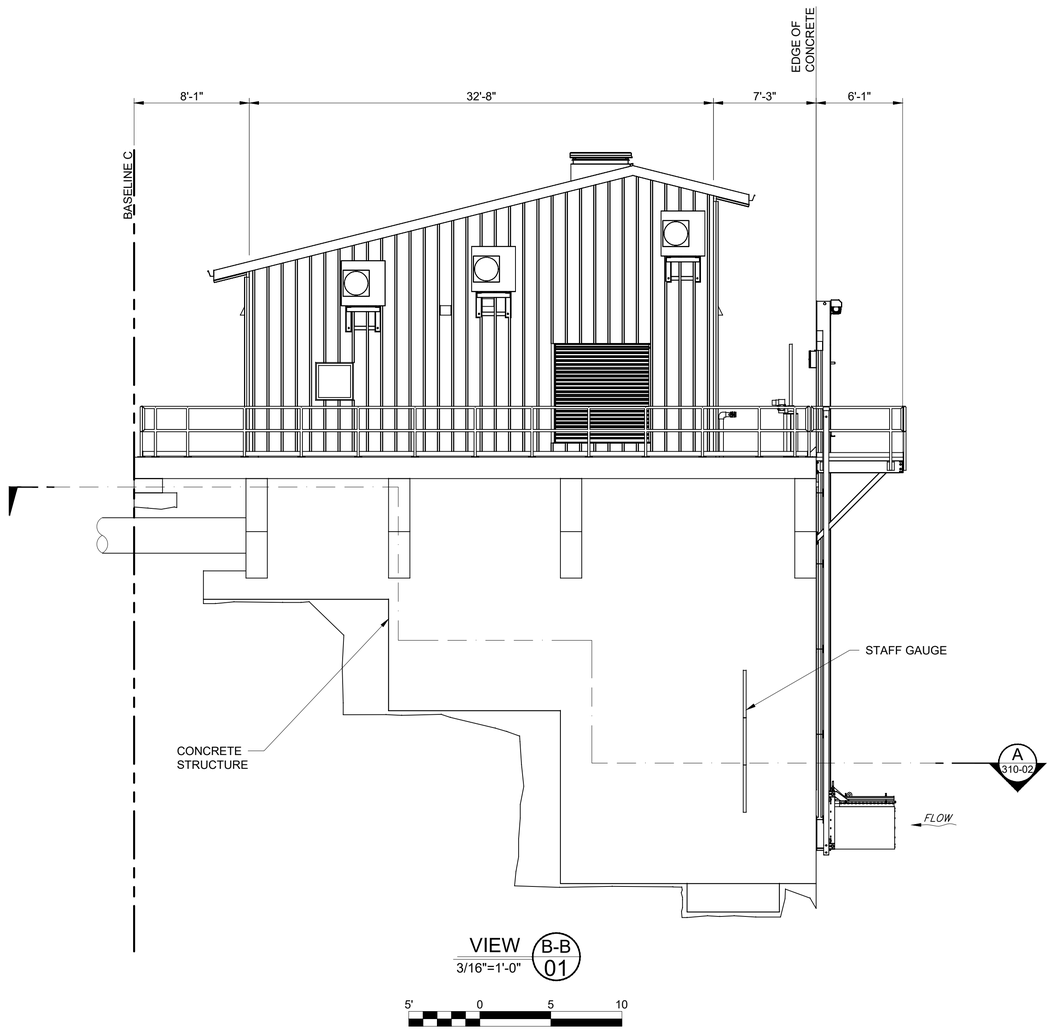
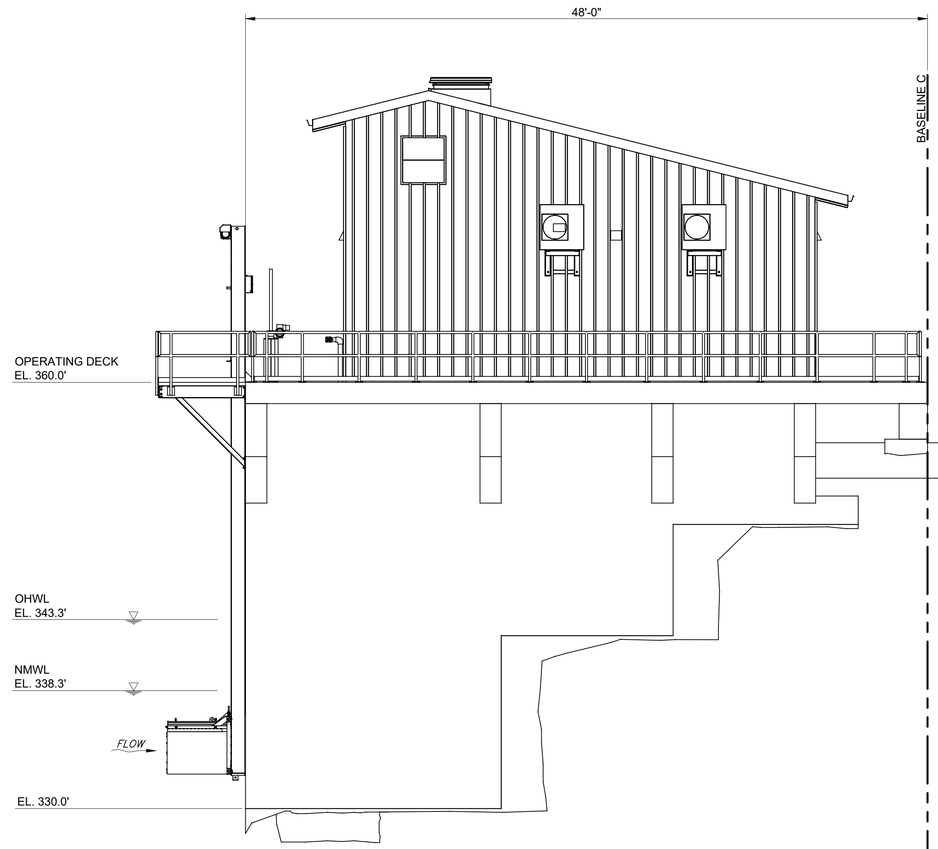
0 1" 2" 3"

22x34 = FULL SCALE



VIEW B-B
3/16"=1'-0"
01

5' 0 5 10



VIEW C-C
3/16"=1'-0"
01

NOTE:
PRIOR TO COFFERDAM REMOVAL, PLACE RESTORATION FILL BETWEEN INTAKE STRUCTURE AND COFFERDAM TO RESTORE THE EXCAVATED AREA TO ITS ORIGINAL CONTOURS.

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OREGON
SEPT 10, 2019
NEIL M. SCHWEITZER
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Project No.	Date Revised	Drawing No.
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UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - GENERAL ARRANGEMENT ELEVATIONS

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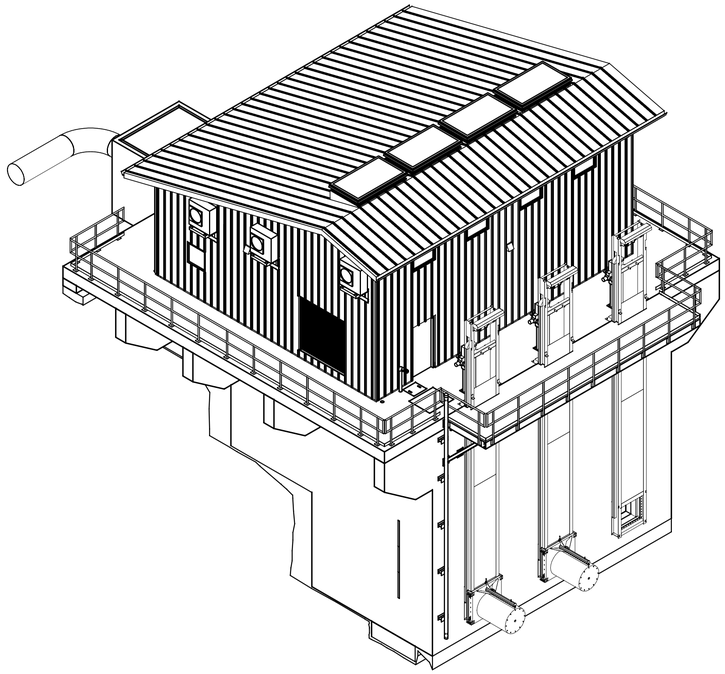
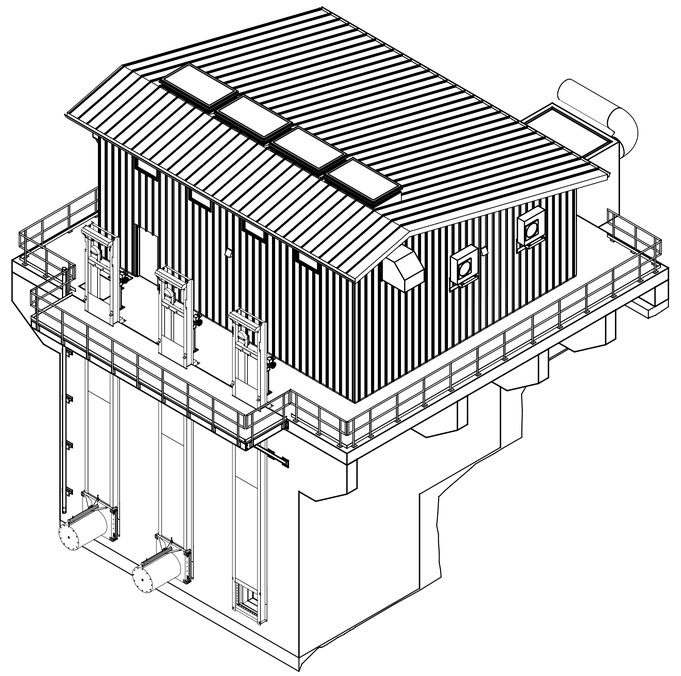
22x34 = FULL SCALE
0
1"
2"
3"



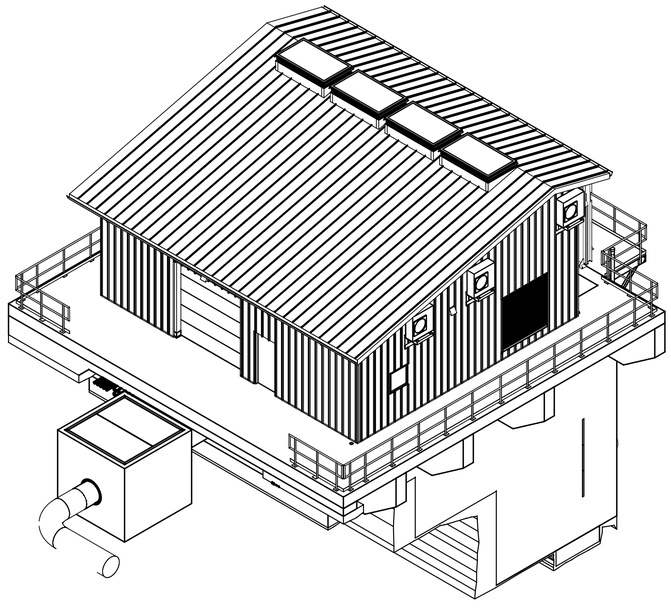
EAST ISOMETRIC VIEW

N.T.S.



NORTH ISOMETRIC VIEW

N.T.S.



SOUTH ISOMETRIC VIEW

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INTAKE AND PUMP STATION

STRUCTURAL - GENERAL ARRANGEMENT
ISOMETRIC VIEWS

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5002-001	10-17-25	300-03

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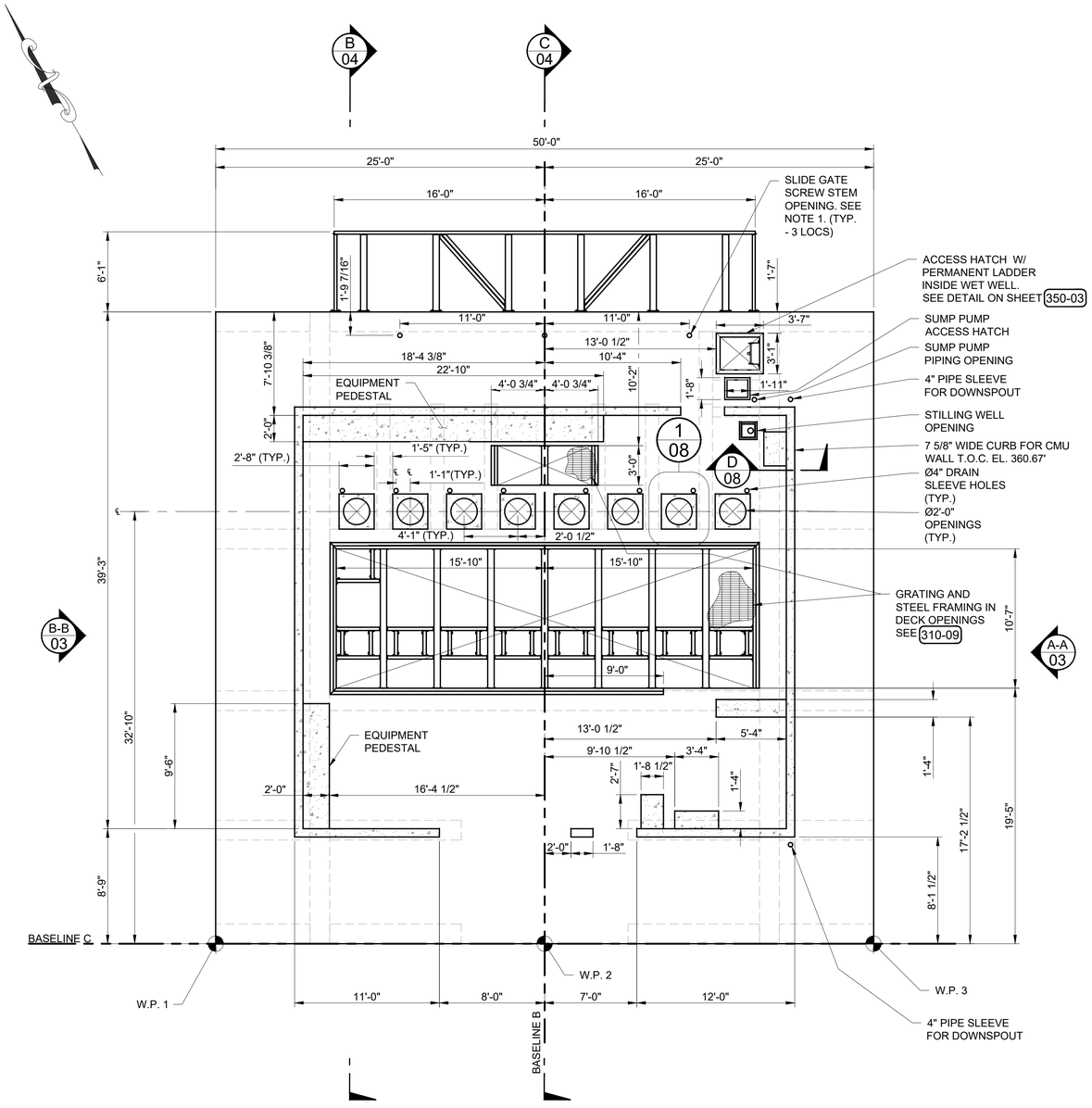
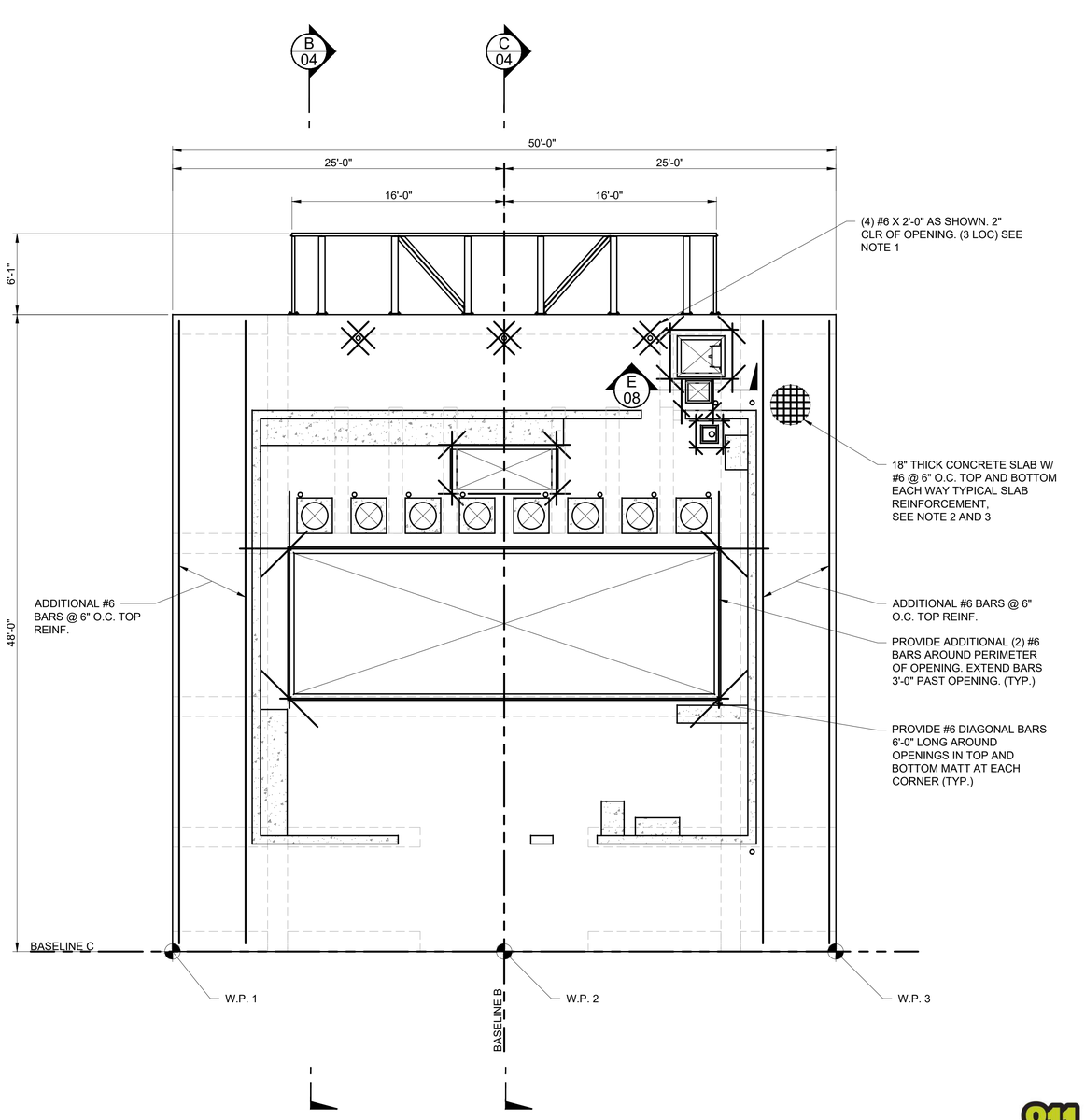


PLAN @ EL. 360.0'

3/16"=1'-0"

NOTE: PERSONNEL SAFETY RAILINGNOT SHOWN FOR CLARITY. SEE SHEET 320-01.

5' 0 5 10



REINFORCEMENT PLAN @ EL. 360.0'

3/16"=1'-0"

NOTES:

1. 4" DIAMETER HOLE FOR SLIDE GATE SCREW STEM PER MANUFACTURER RECOMMENDATION. USE SLEEVE PENETRATION DETAIL IN MECHANICAL TYPICAL DETAIL SHEET. LOCATION TO BE VERIFIED BY GATE MANUFACTURER FOR PROPER INSTALLATION OF GATE. ANCHORS PLACED ON BASE PLATE OF SCREW STEM SHALL BE PLACED OUTWARD OF ADD'L REINFORCEMENT SHOW.
2. COORDINATE INSTALL AND LOCATION OF PIPE AND EQUIPMENT SUPPORT PER MECH DWGS & SHEET **450-02**.
3. COORDINATE INSTALL AND LOCATION OF ELECTRICAL CONDUITS PER ELEC DWGS.
4. REINFORCEMENT AROUND OPENINGS SEE TYPICAL PENETRATION REINFORCEMENT DETAIL ON SHEET **350-01**, U.N.O.

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OREGON
SEPT 10, 2019
NEIL M. SCHWEITZER
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CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - INTAKE STRUCTURE
PLAN VIEWS

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5002-001	10-17-25	310-01

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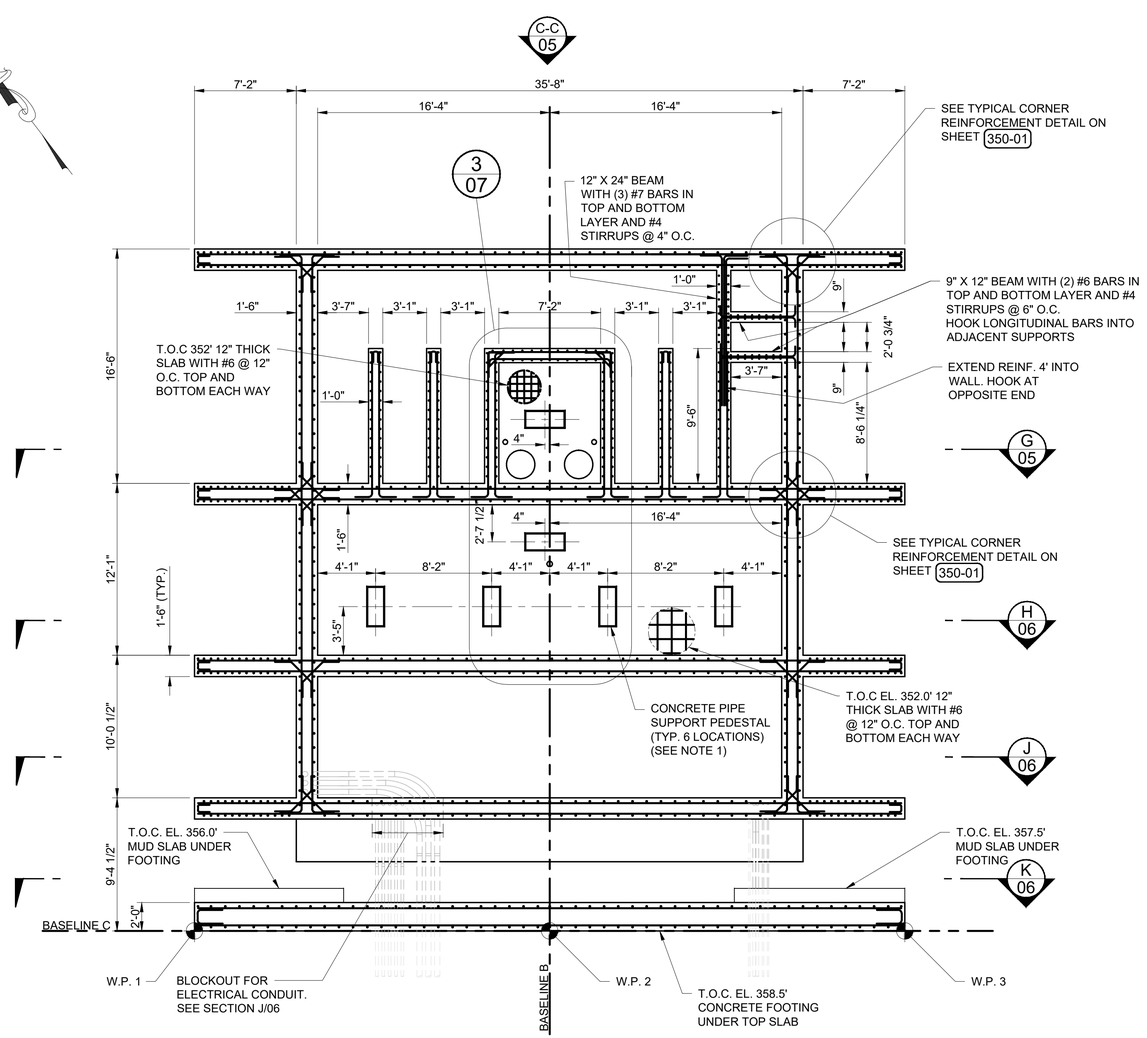
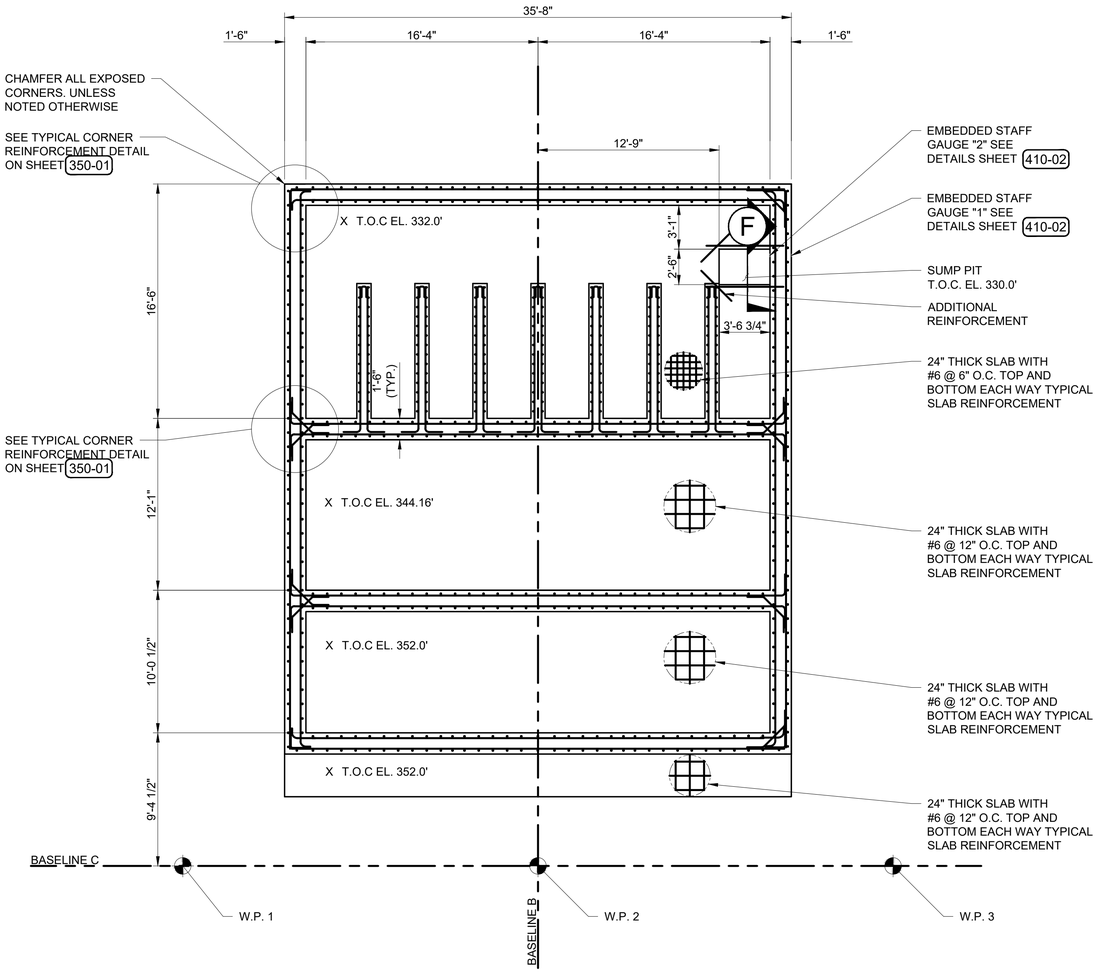
22x34 = FULL SCALE 0 1" 2" 3"



PLAN @ EL. 358.0'

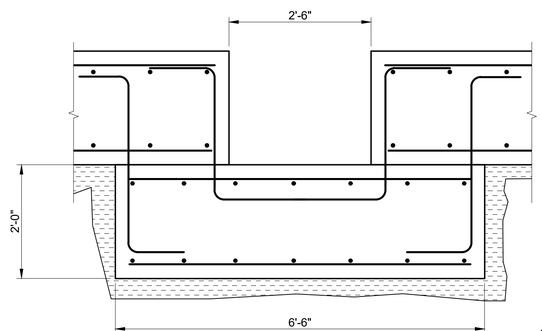
3/16"=1'-0"

5' 0 5 10



PLAN @ FOUNDATION A 300-02

3/16"=1'-0"



SECTION F

3/4" = 1'-0"

1' 0 1 2 3

NOTES:

1. COORDINATE ANCHOR INSTALL LOCATIONS ON PEDESTAL PER MECH DWGS & SHEET 450-02.
2. COORDINATE INSTALL AND LOCATION OF ELECTRICAL CONDUITS PER ELEC DWGS.
3. REINFORCEMENT AROUND OPENING SEE TYPICAL PENETRATION REINFORCEMENT DETAIL ON SHEET **350-01**, U.N.O.
4. CHAMFER ALL EDGES PER CONCRETE NOTE 4B.

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - INTAKE STRUCTURE
PLAN & SECTION

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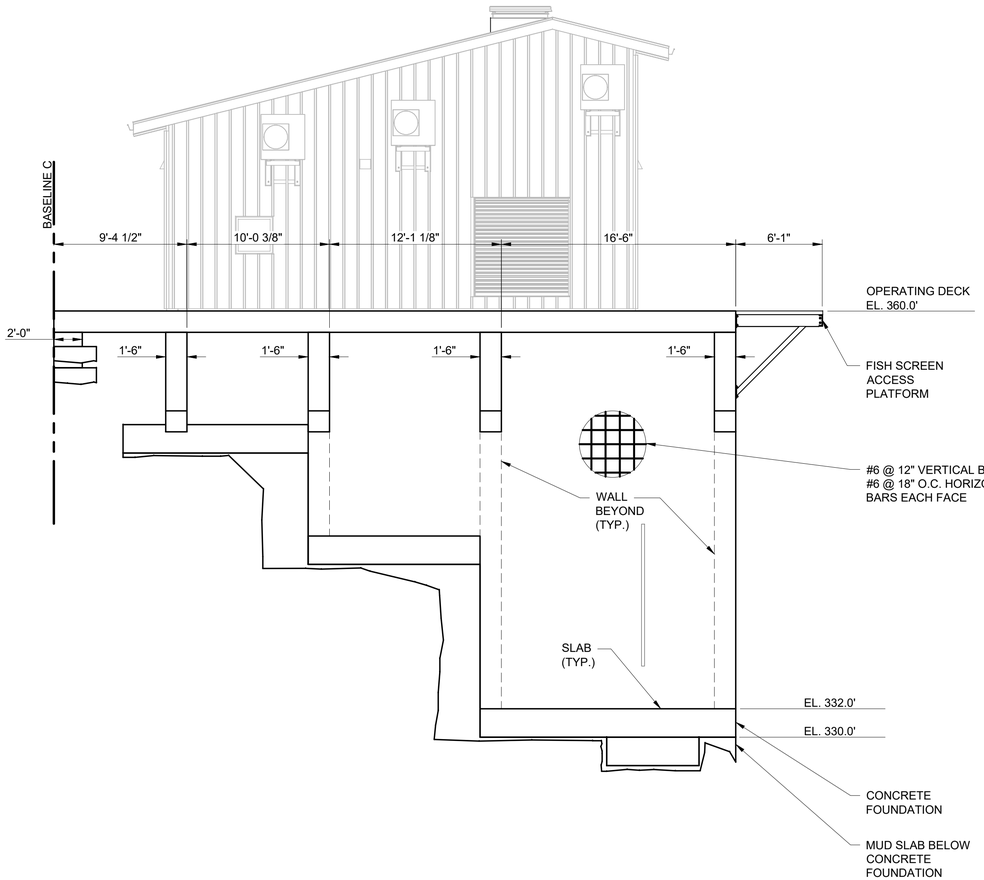
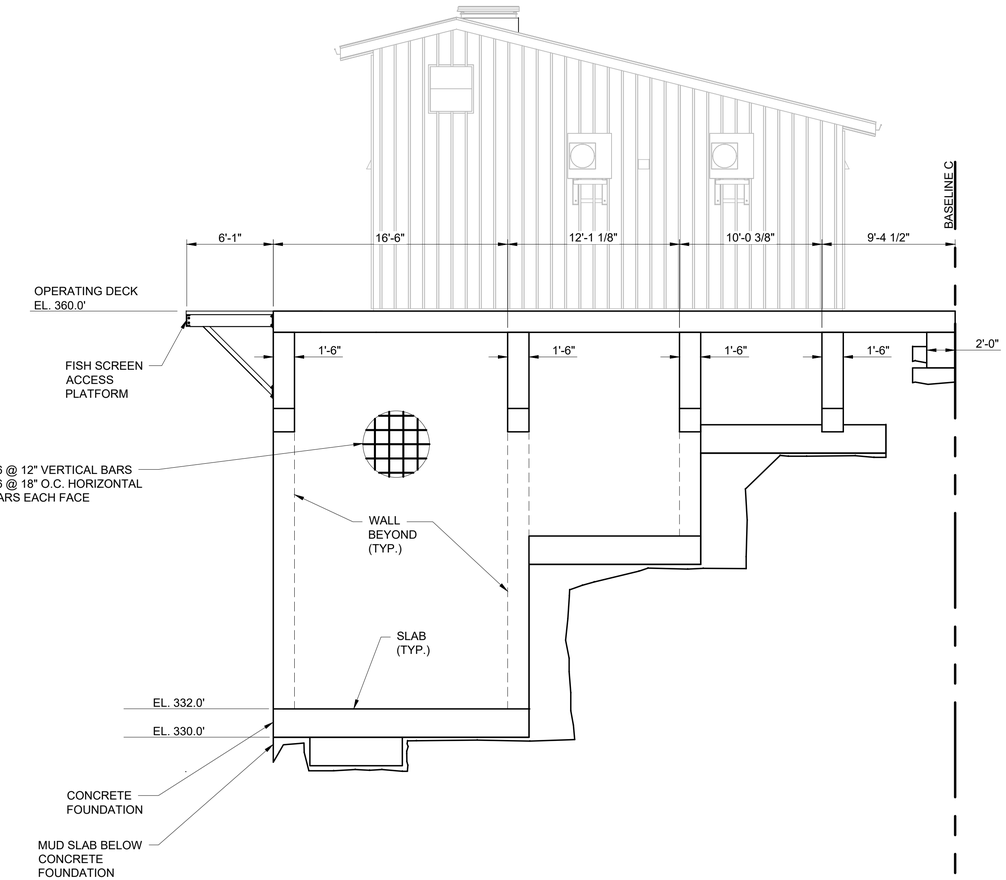
22x34 = FULL SCALE
3" 2" 1" 0

22x34 = FULL SCALE

3" 2" 1" 0



VIEW A-A 01
3/16"=1'-0"



VIEW B-B 01
3/16"=1'-0"

5' 0 5 10

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OREGON
SEPT 10, 2019
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NMS	CRS	JGE	5002-001	10-17-25	310-03

CITY OF UMATILLA
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CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - INTAKE STRUCTURE
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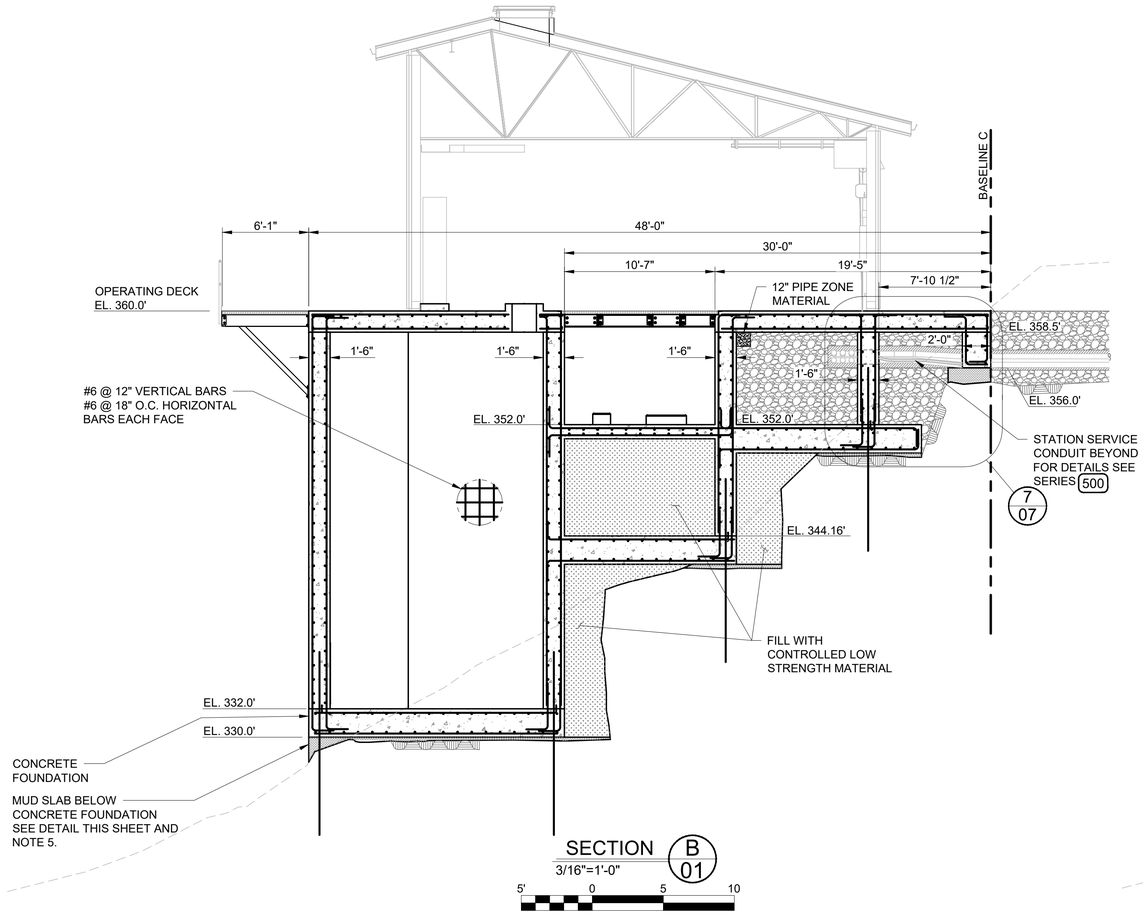
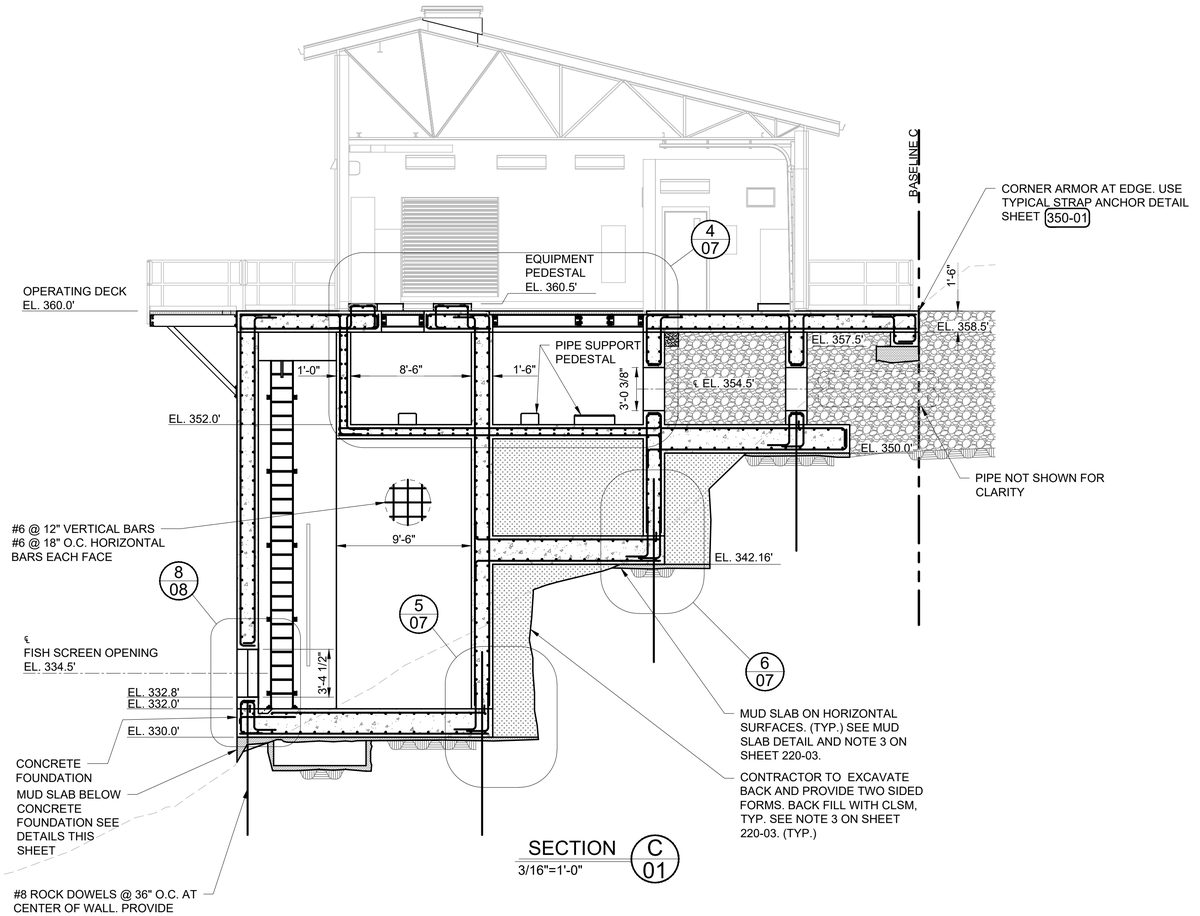
22x34 = FULL SCALE
3"
2"
1"
0

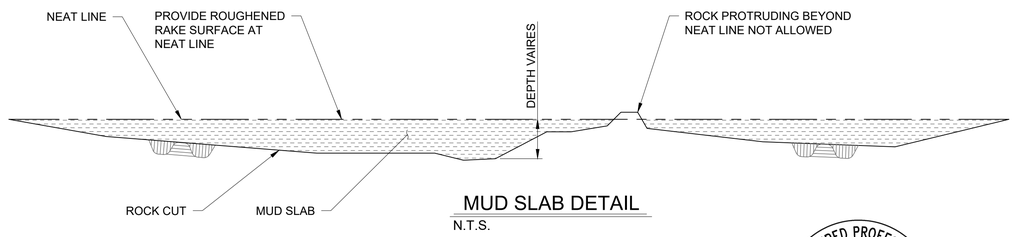


SECTION B 01
3/16"=1'-0"

5' 0 5 10



SECTION C 01
3/16"=1'-0"



MUD SLAB DETAIL
N.T.S.

NOTES:
1. COORDINATE ANCHOR INSTALL LOCATIONS ON PEDESTAL PER MECH DWGS & SHEET 450-02.
2. COORDINATE INSTALL AND LOCATION OF ELECTRICAL CONDUITS PER ELEC DWGS.
3. REINFORCEMENT AROUND OPENING SEE TYPICAL PENETRATION REINFORCEMENT DETAIL ON SHEET 350-01, U.N.O.
4. CHAMFER ALL EDGES PER CONCRETE NOTE 4B
5. EXISTING BEDROCK SLOPE CONDITIONS TO BE FIELD VERIFIED. WHERE MUDSLAB THICKNESS EXCEED 6" AT EDGE OF CONCRETE, EOR TO BE NOTIFIED.

REGISTERED PROFESSIONAL ENGINEER
90165PE
OREGON
SEPT 10, 2019
NEIL M. SCHWEITZER
EXPIRES: 06/30/2026

No.	Revision	Date	Drawn	Checked
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Designed	Drawn	Checked
NMS	CRS	JGE

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - INTAKE STRUCTURE
LONGITUDINAL SECTIONS

Kleinschmidt
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Project No.	Date Revised	Drawing No.
5002-001	10-17-25	310-04

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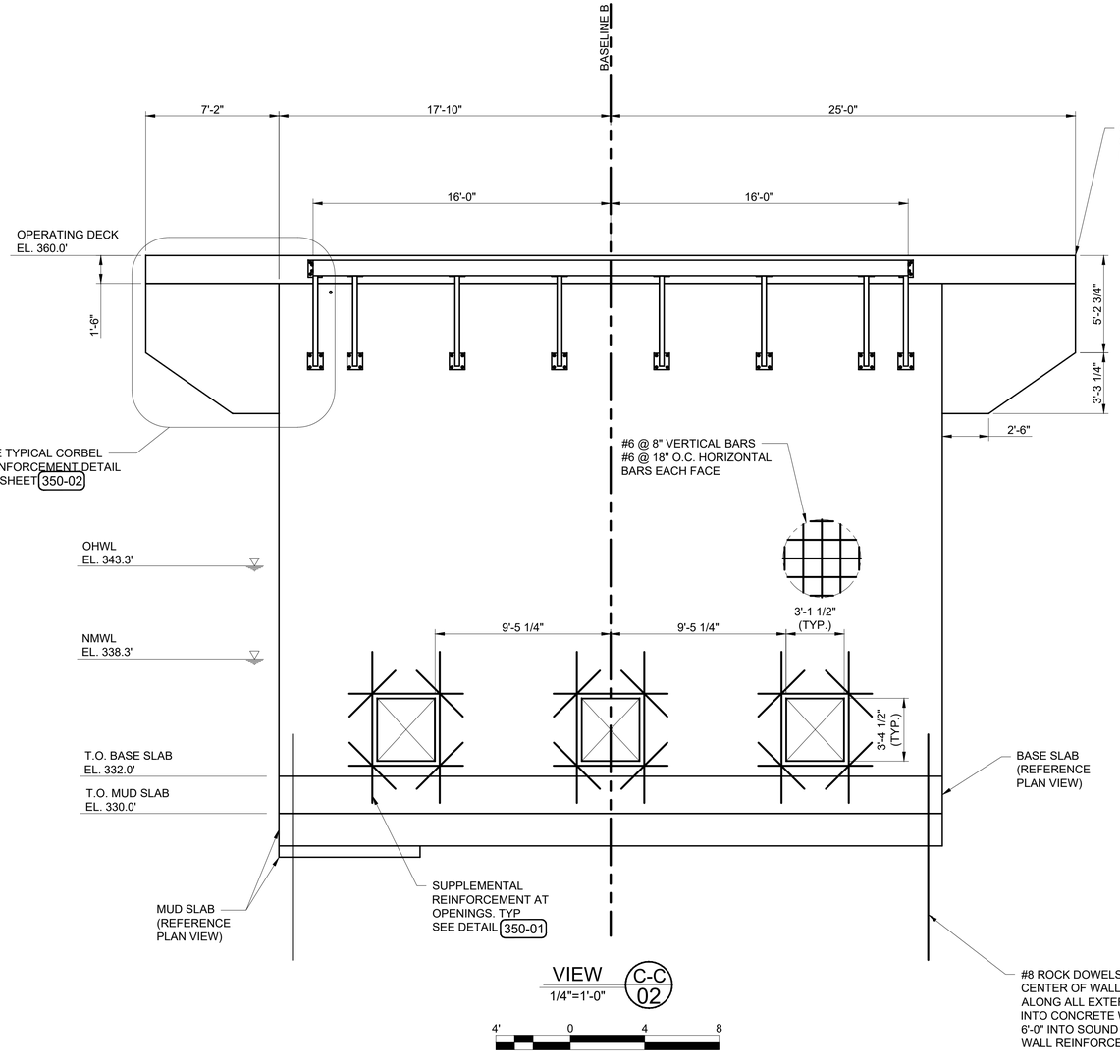
22x34 = FULL SCALE



VIEW C-C 02
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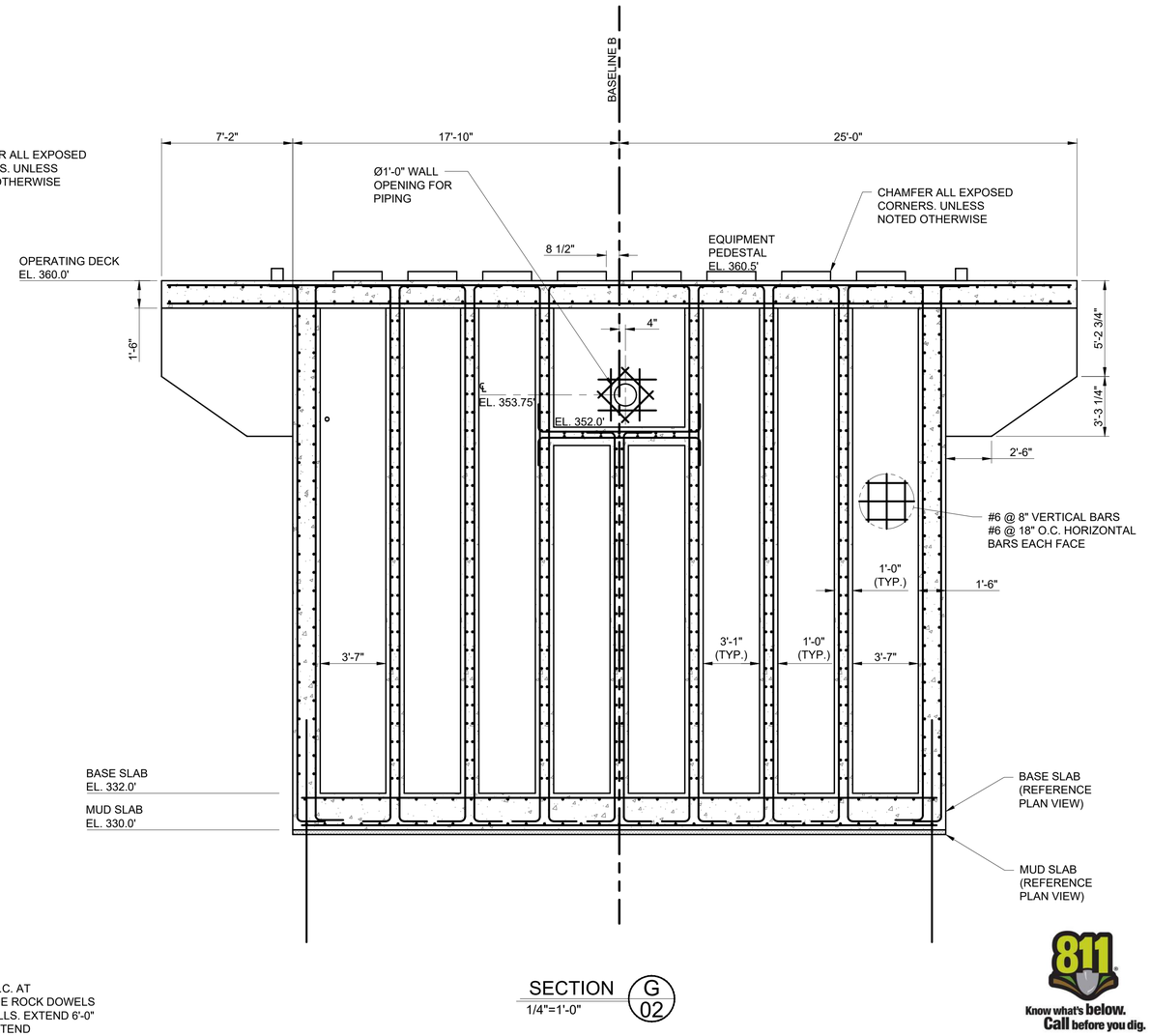

SECTION G 02
1/4"=1'-0"

4' 0 4 8

NOTES:
1. COORDINATE ANCHOR INSTALL LOCATIONS ON PEDESTAL PER MECH DWGS & SHEET 450-02.
2. COORDINATE INSTALL AND LOCATION OF ELECTRICAL CONDUITS PER ELEC DWGS.
3. REINFORCEMENT AROUND OPENING SEE TYPICAL PENETRATION REINFORCEMENT DETAIL ON SHEET 350-01, U.N.O.
4. CHAMFER ALL EDGES PER CONCRETE NOTE 4B

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REGISTERED PROFESSIONAL ENGINEER
90165PE
OREGON
SEPT 10, 2019
NEIL M. SCHWEITZER
EXPIRES: 06/30/2026

No.	Revision	Date	Drawn	Checked
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NMS	CRS	JGE

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - INTAKE STRUCTURE
TRANSVERSE SECTIONS (1)

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Project No.	Date Revised	Drawing No.
5002-001	10-17-25	310-05

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22x34 = FULL SCALE
3"
2"
1"
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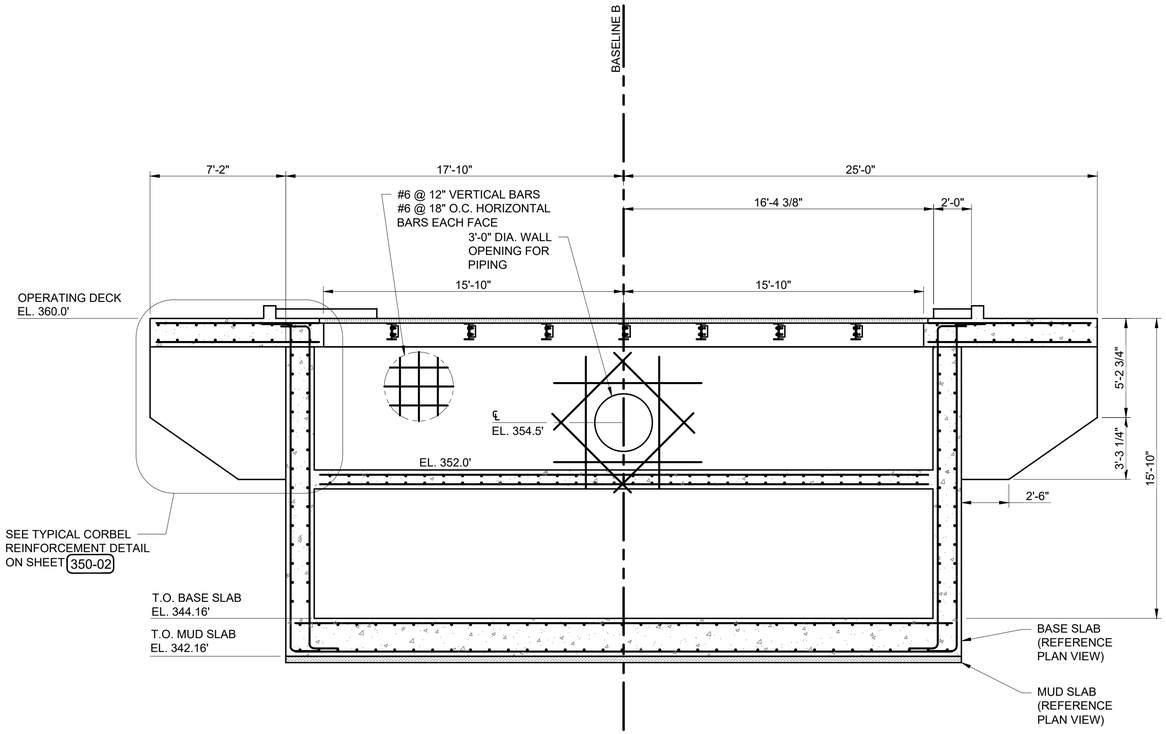

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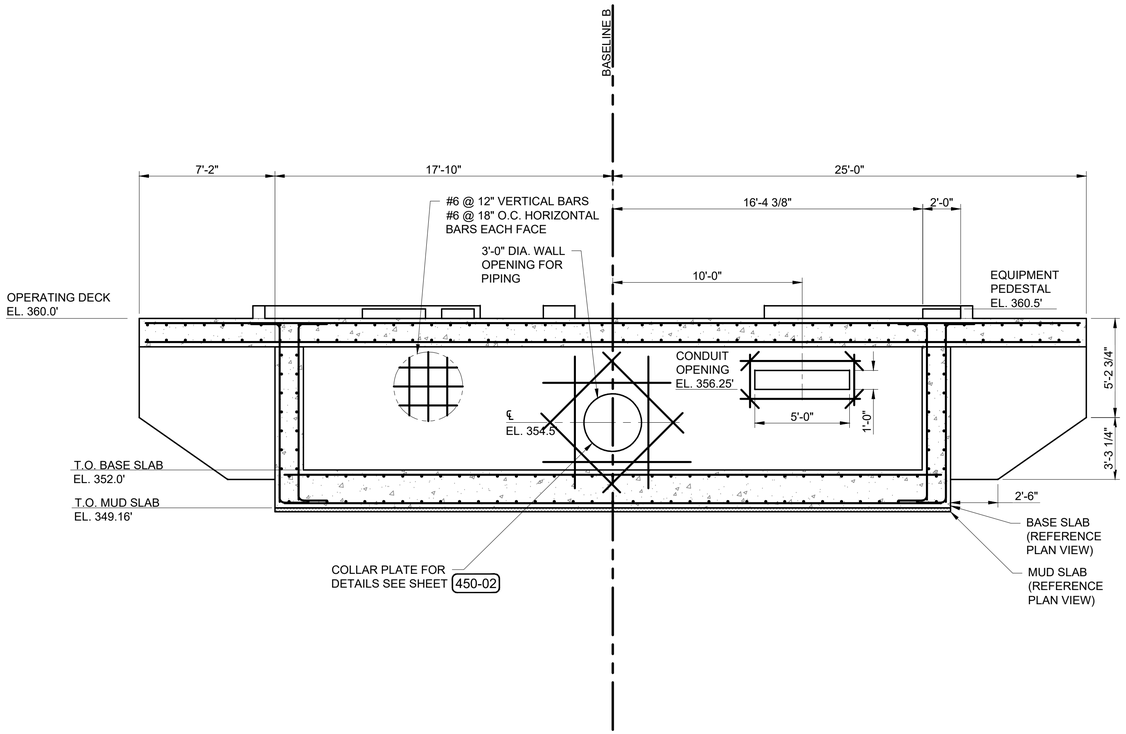

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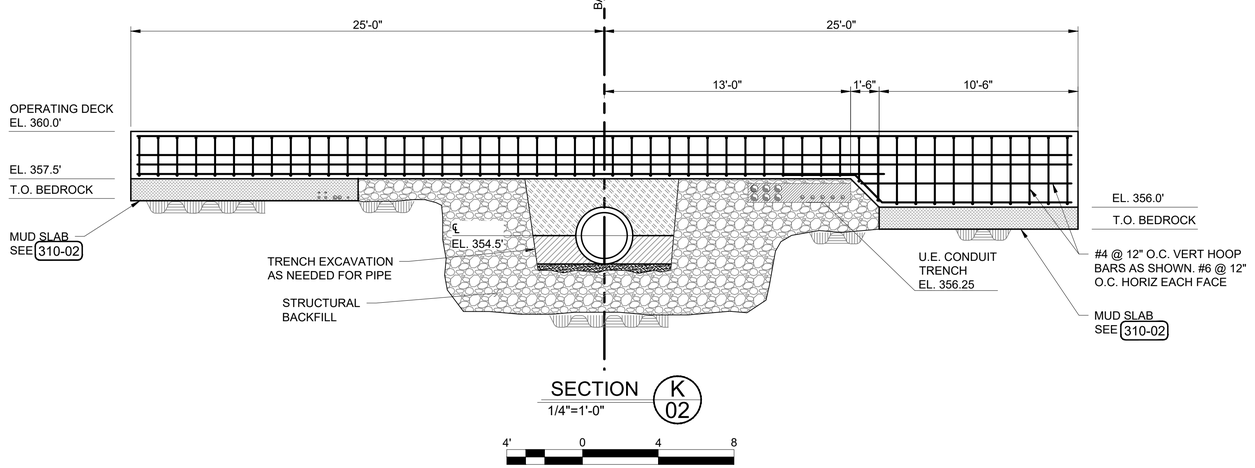

SECTION K 02
1/4"=1'-0"

4' 0 4 8

NOTES:
1. COORDINATE ANCHOR INSTALL LOCATIONS ON PEDESTAL PER MECH DWGS & SHEET **450-02**.
2. COORDINATE INSTALL AND LOCATION OF ELECTRICAL CONDUITS PER ELEC DWGS.
3. REINFORCEMENT AROUND OPENING SEE TYPICAL PENETRATION REINFORCEMENT DETAIL ON SHEET **350-01**, U.N.O.
4. CHAMFER ALL EDGES PER CONCRETE NOTE 4B

REGISTERED PROFESSIONAL ENGINEER
90165PE
OREGON
SEPT 10, 2019
NEIL M. SCHWEITZER
EXPIRES: 06/30/2026

No.	Revision	Date	Drawn	Checked
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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
NMS	CRS	JGE	5002-001	10-17-25	310-06

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - INTAKE STRUCTURE
TRANSVERSE SECTIONS (2)

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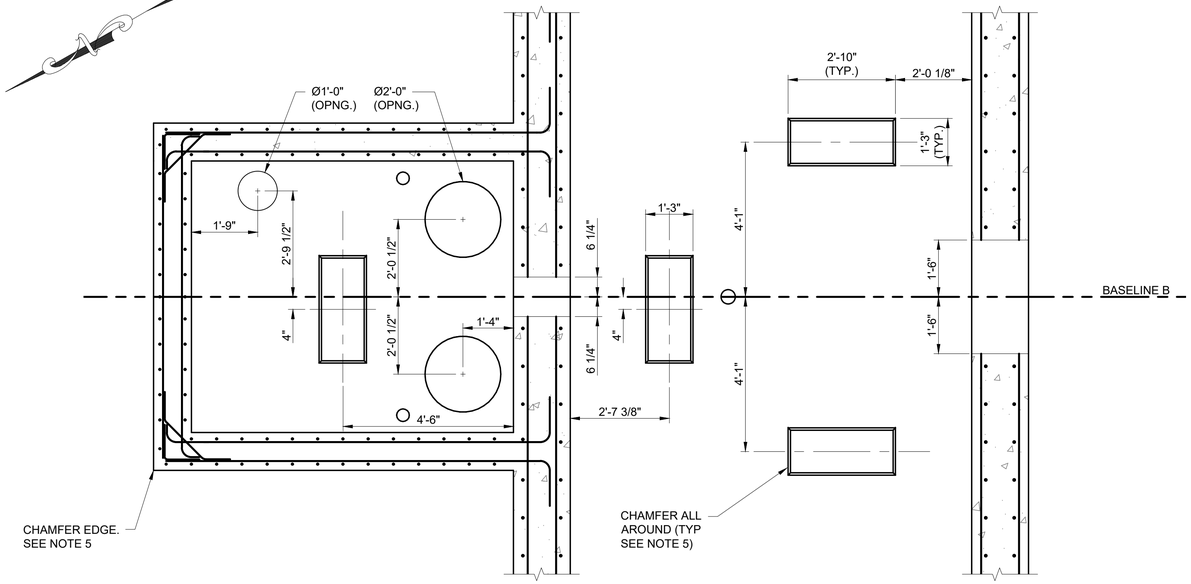
22x34 = FULL SCALE
3"
2"
1"
0



DETAIL 3/02
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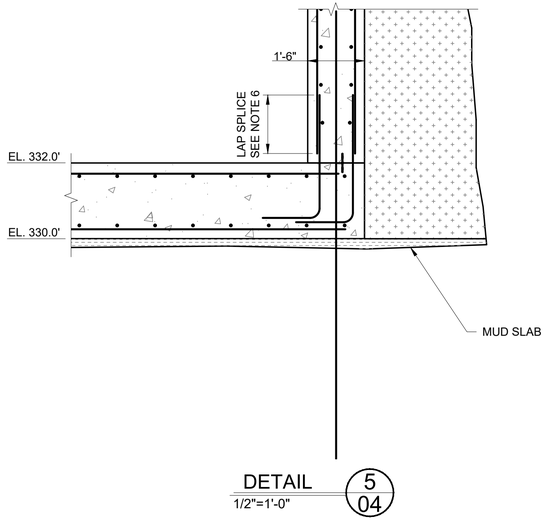
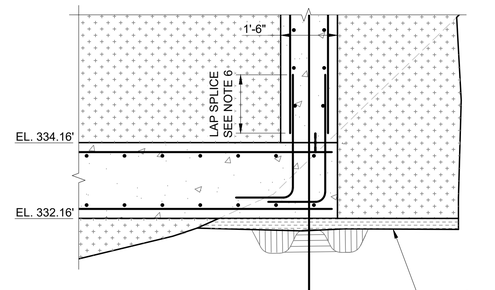


DETAIL 5/04
1/2"=1'-0"



DETAIL 6/04
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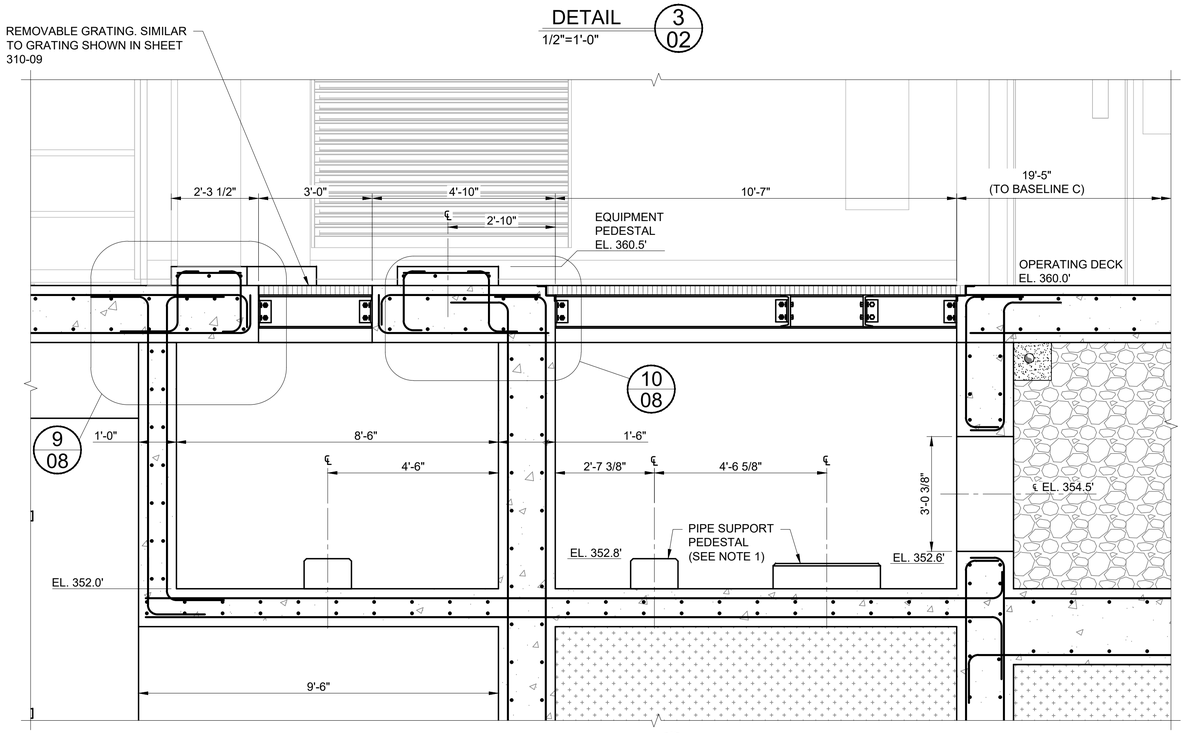

DETAIL 4/04
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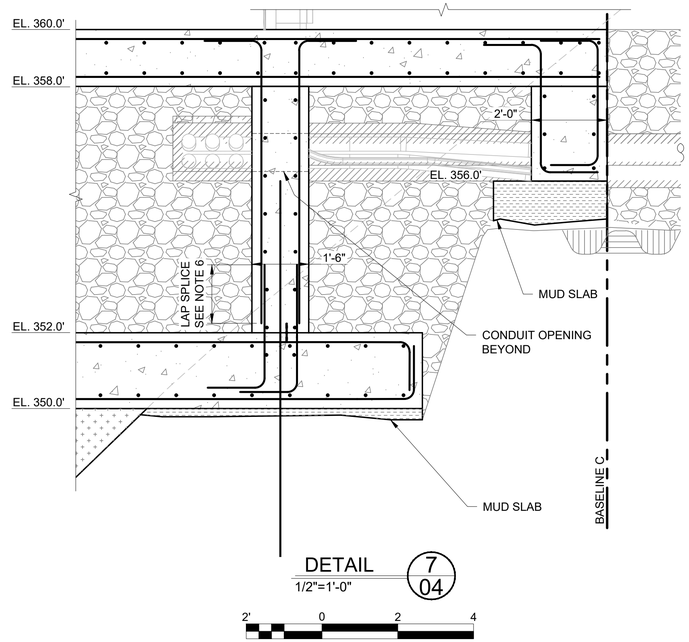

DETAIL 7/04
1/2"=1'-0"

2' 0 2 4

NOTES:
1. COORDINATE ANCHOR INSTALL LOCATIONS ON PEDESTAL PER MECH DWGS & SHEET 450-02.
2. COORDINATE INSTALL AND LOCATIONS OF PIPE AND EQUIPMENT SUPPORT PER MECH DWGS & SHEET 450-02.
3. COORDINATE INSTALL AND LOCATION OF ELECTRICAL CONDUITS PER ELEC DWGS.
4. REINFORCEMENT AROUND OPENING SEE TYPICAL PENETRATION REINFORCEMENT DETAIL ON SHEET 350-01, U.N.O.
5. CHAMFER ALL EDGES PER CONCRETE NOTE 4B
6. SEE REQUIRED LAP SPLICE IN CONCRETE GENERAL NOTES ON SHEET 100-04.

REGISTERED PROFESSIONAL ENGINEER
90165PE
OREGON
SEPT 10, 2019
NEIL M. SCHWEITZER
EXPIRES: 06/30/2026

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
NMS	CRS	JGE	5002-001	10-17-25	310-07

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - INTAKE STRUCTURE CONCRETE DETAILS (1)

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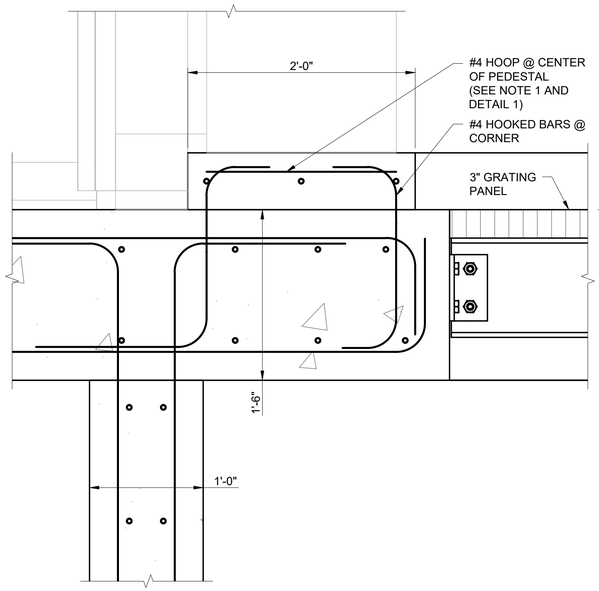
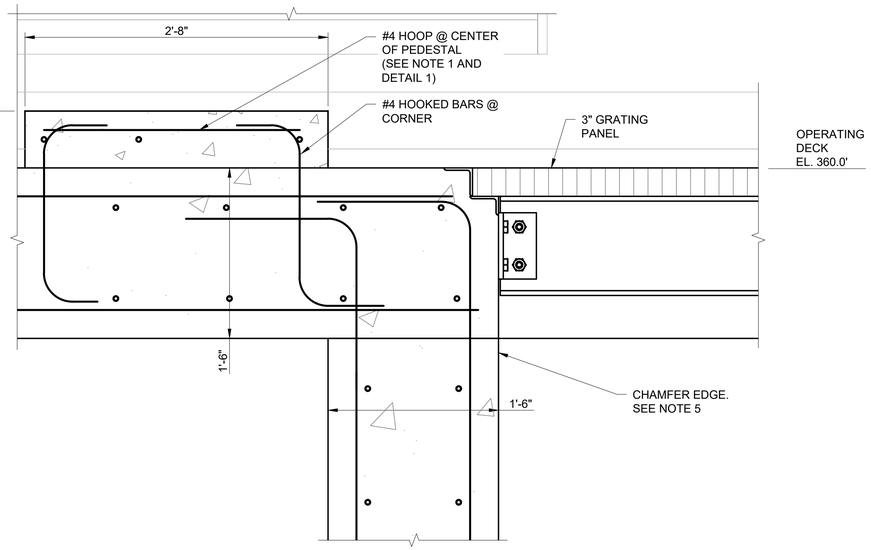
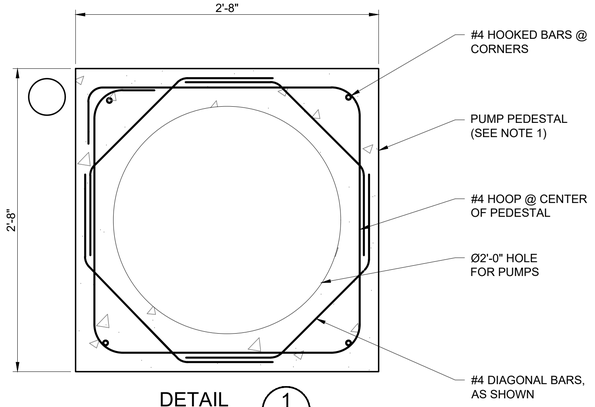
22x34 = FULL SCALE



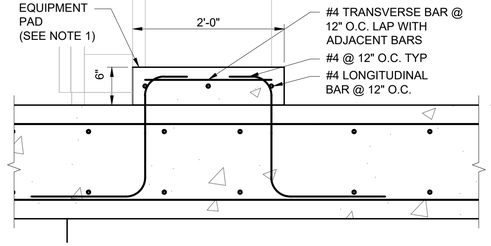




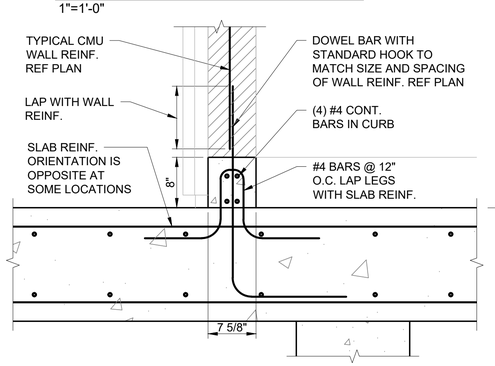
DETAIL 1 / 01
1 1/2"=1'-0"

COORDINATE PEDESTAL SIZE AND OPENING DIAMETER WITH PUMPS

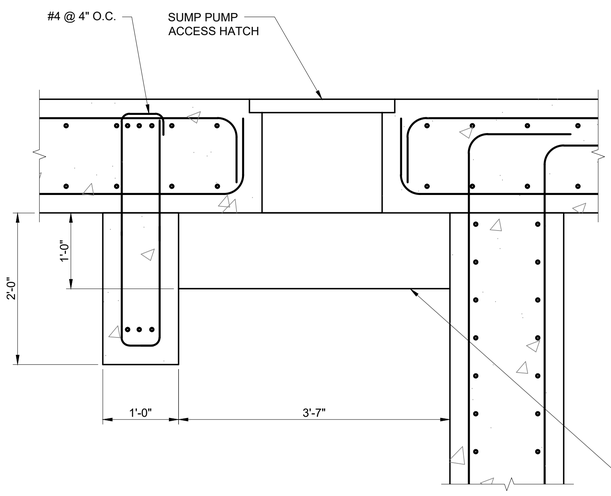
DETAIL 9 / 07
1 1/2"=1'-0"



EQUIPMENT PAD TYP. DETAIL
1"=1'-0"



CURB FOR CMU WALL D / 01
1"=1'-0"



SECTION E / 01
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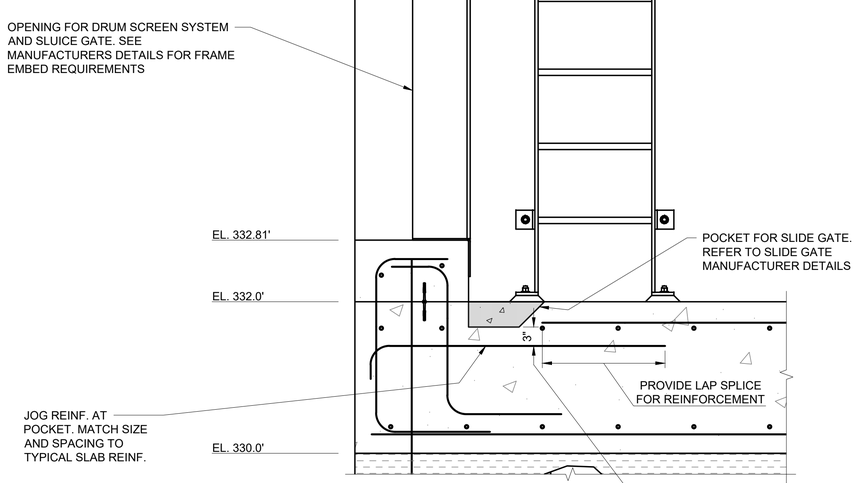

DETAIL 8 / 04
1"=1'-0"

6" 0 6 12 18

1' 0 1 2

811 Know what's below. Call before you dig.

NOTES:
1. COORDINATE ANCHOR INSTALL LOCATIONS ON PEDESTAL PER MECH DWGS & SHEET 450-02.
2. COORDINATE INSTALL AND LOCATIONS OF PIPE AND EQUIPMENT SUPPORT PER MECH DWGS & SHEET 450-02.
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4. REINFORCEMENT AROUND OPENING SEE TYPICAL PENETRATION REINFORCEMENT DETAIL ON SHEET 350-01, U.N.O.
5. CHAMFER ALL EDGES PER CONCRETE GENERAL NOTE 4B ON SHEET 100-04.
6. SEE REQUIRED LAP SPLICE IN CONCRETE GENERAL NOTES ON SHEET 100-04.

REGISTERED PROFESSIONAL ENGINEER
90165PE
OREGON
NEIL M. SCHWEITZER
SEPT 10, 2019
EXPIRES: 06/30/2026

No.	Revision	Date	Drawn	Checked
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NMS	CRS	JGE	5002-001	10-17-25	310-08

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - INTAKE STRUCTURE CONCRETE DETAILS (2)

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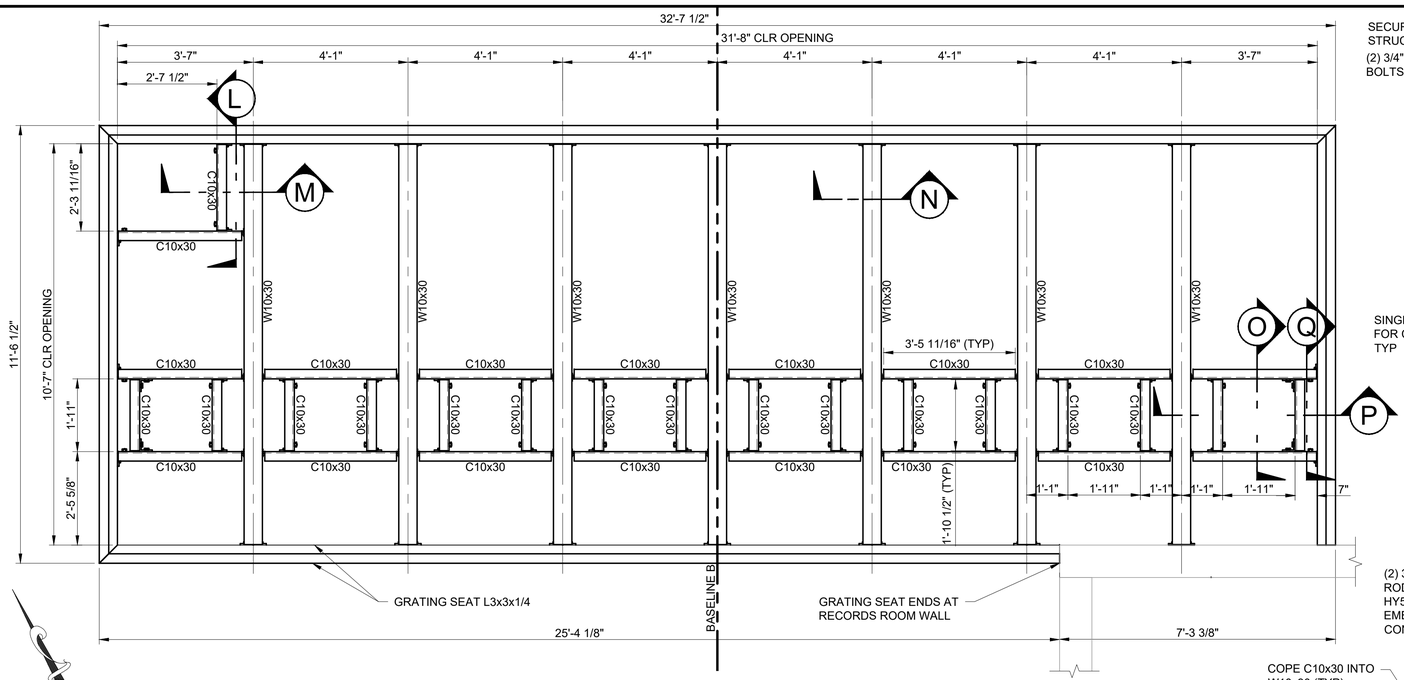
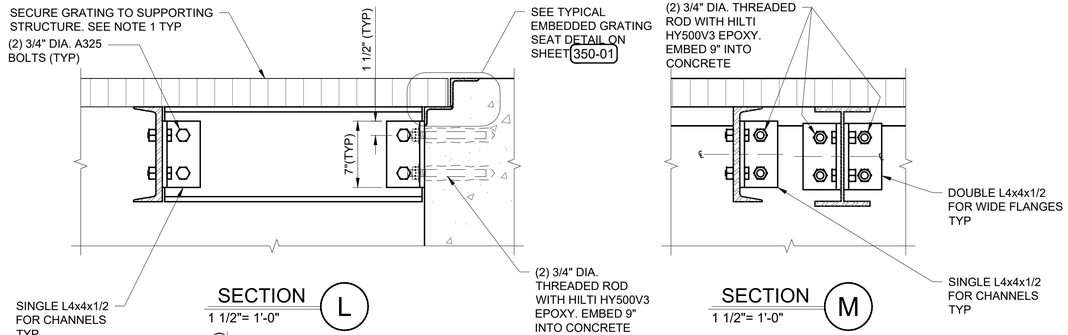
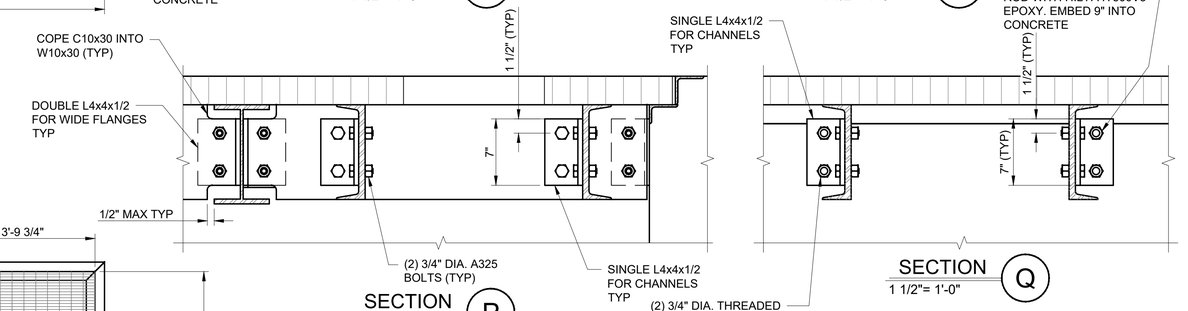


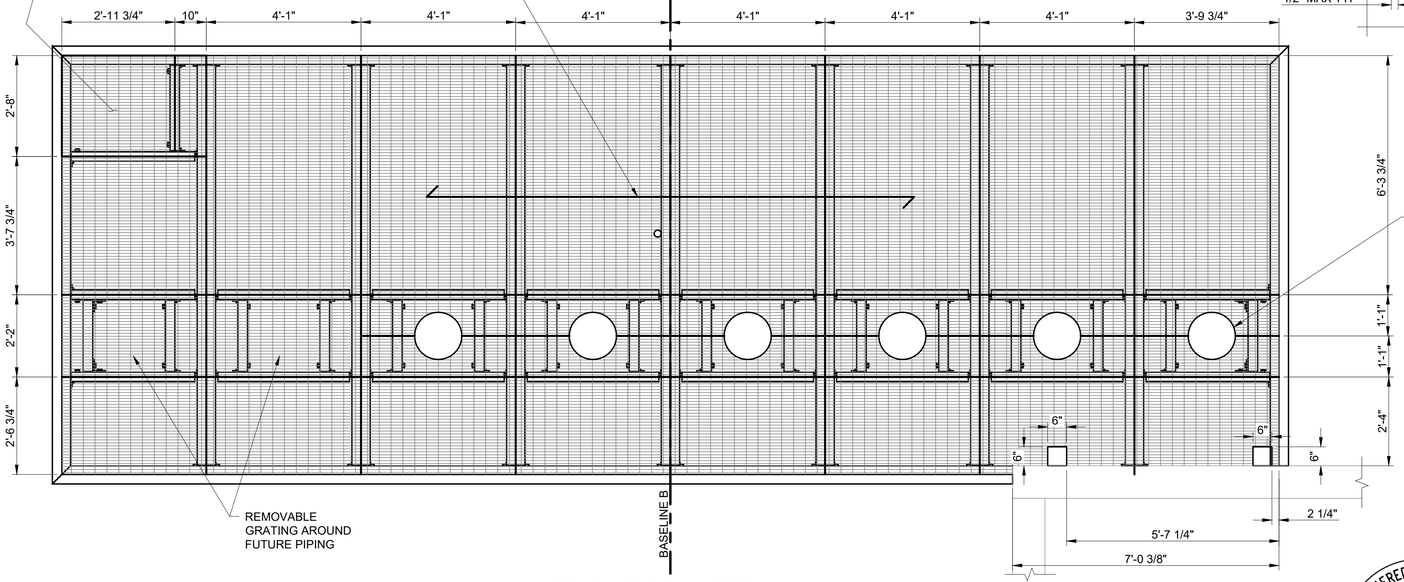
FRAMING PLAN - DETAIL

1/2"=1'-0"

2' 0 2 4

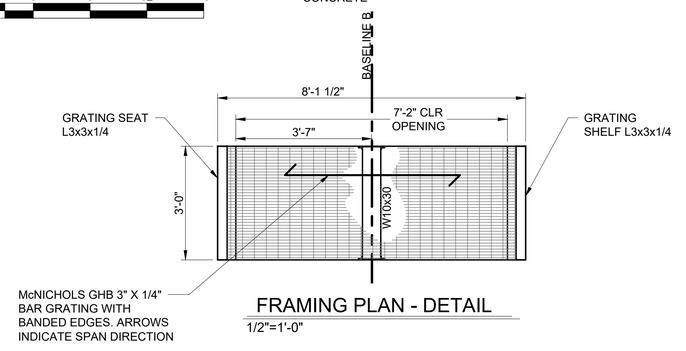






GRATING PLAN - DETAIL

1/2"=1'-0"



FRAMING PLAN - DETAIL

1/2"=1'-0"

NOTES:

1. STEEL FRAMING SHALL BE GALVANIZED. SEE SPECIFICATIONS 05 50 00 METAL FABRICATIONS.SCREEN PLATFORM GRATING SHALL BE GALVANIZED, BANDED, AND SECURED TO SUPPORT BEAM WITH HBC-10 SADDLE CLIPS @ 16" O.C. (MINIMUM 2). USE 1/4" BOLT AND WELD NUT TO BOTTOM OF SUPPORT BEAM TOP FLANGE. PREDRILL 5/16" HOLE ON SUPPORT BEAM, COORD LOCATIONS WITH GRATING.
2. STEEL FRAMING SHALL BE GALVANIZED. SEE SPECIFICATIONS 05 50 00 METAL FABRICATIONS.

REGISTERED PROFESSIONAL ENGINEER
90165PE
OREGON
SEPT 10, 2019
NEIL M. SCHWEITZER
EXPIRES: 06/30/2026

No.	Revision	Date	Drawn	Checked
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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
NMS	CRS	JGE	5002-001	10-17-25	310-09

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - INTAKE STRUCTURE
GRATING PLAN & DETAILS

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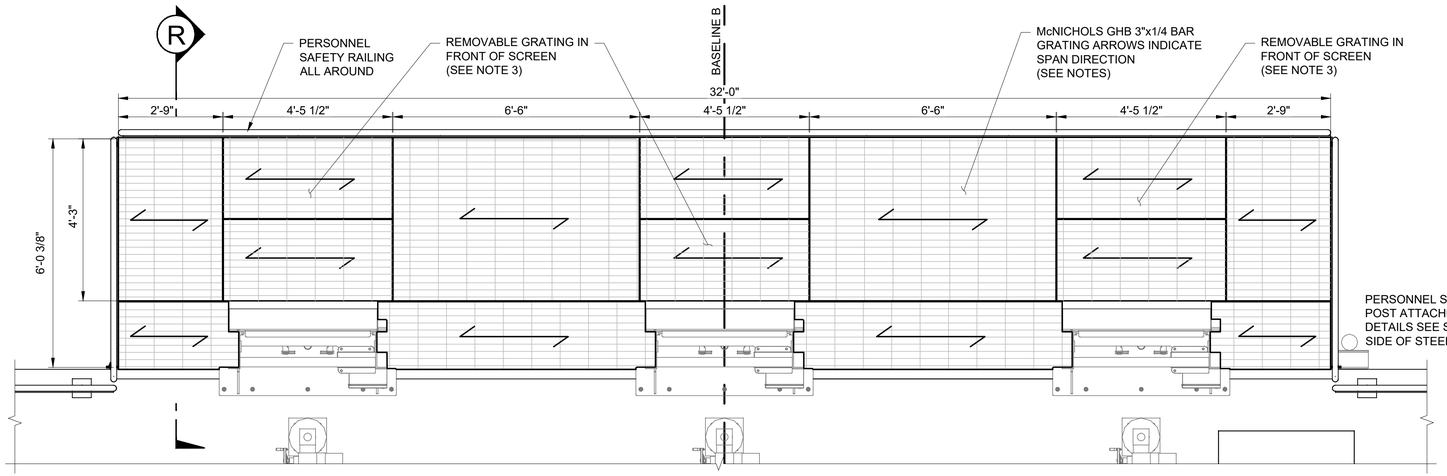
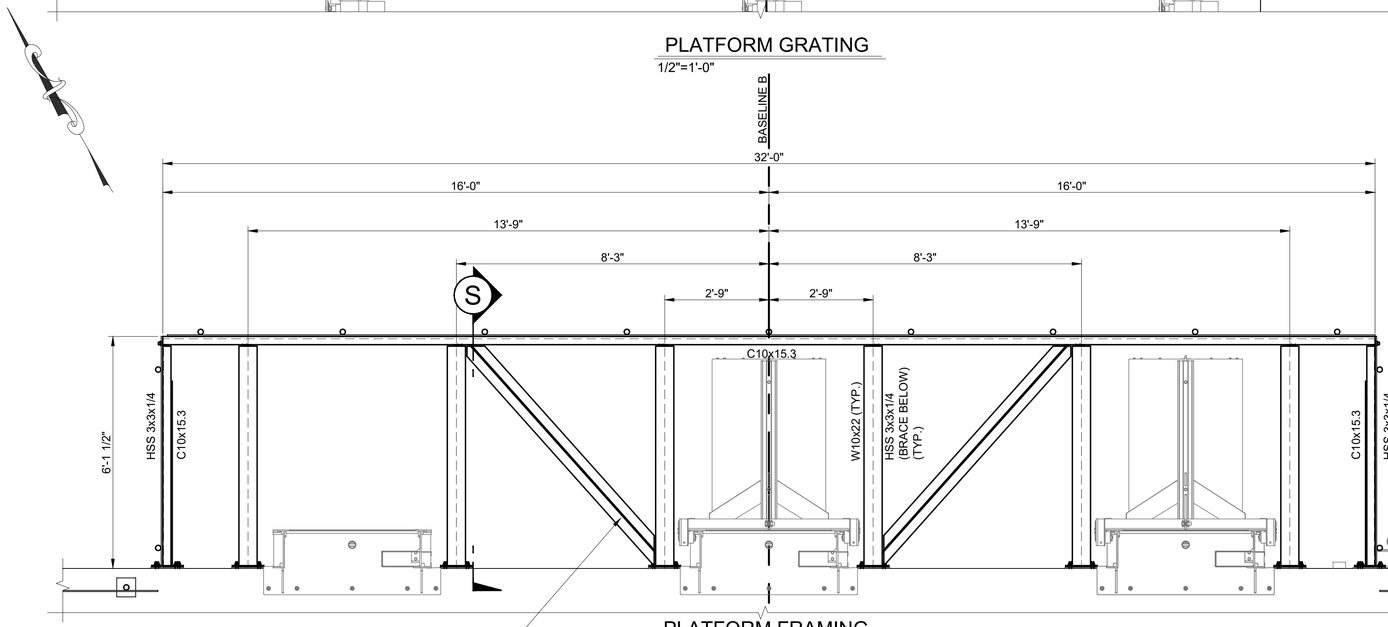


PLATFORM GRATING

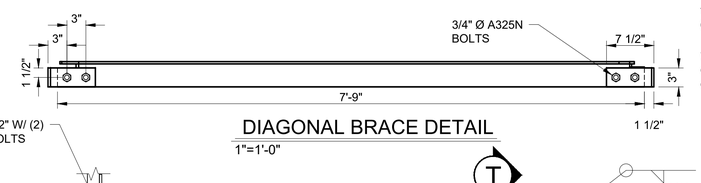
1/2"=1'-0"



PLATFORM FRAMING

1/2"=1'-0"

2' 0 2 4



DIAGONAL BRACE DETAIL

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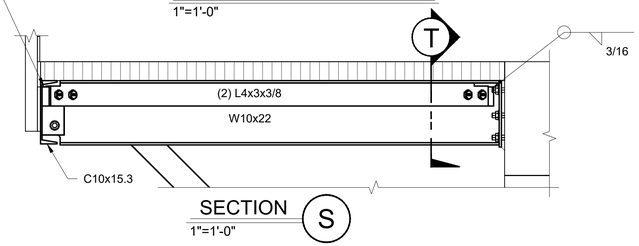
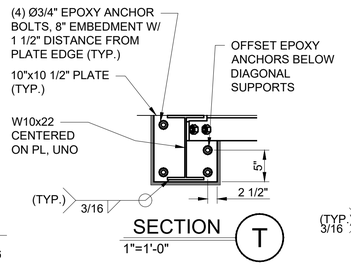


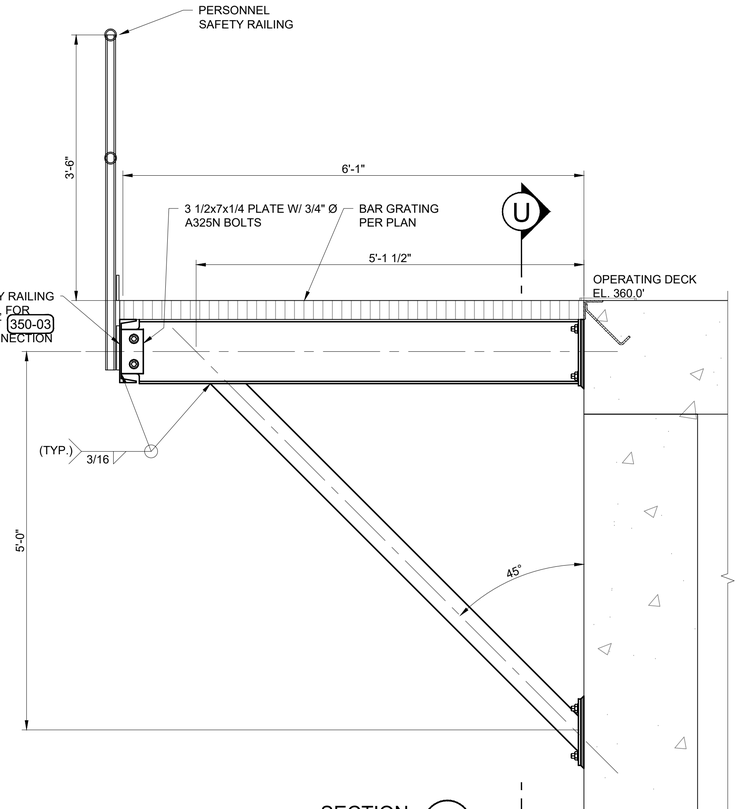
SECTION T

1"=1'-0"



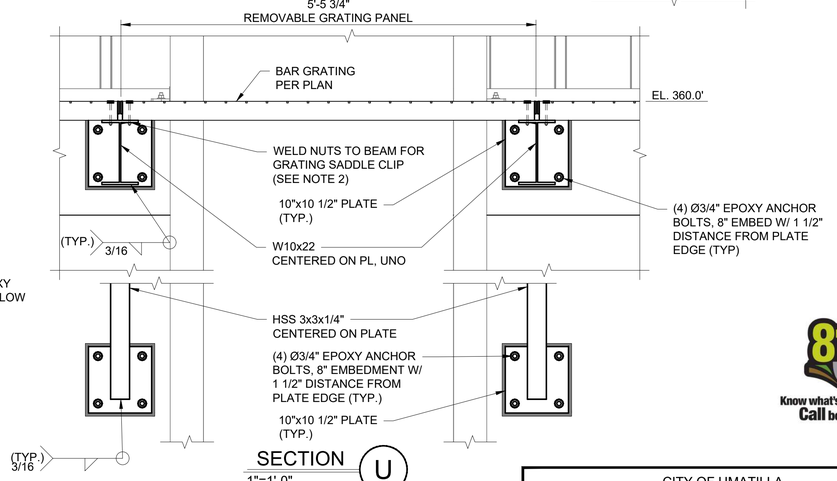
SECTION T

1"=1'-0"



SECTION R

1"=1'-0"



SECTION U

1"=1'-0"

1' 0 1 2

NOTES:

1. STEEL FRAMING SHALL BE GALVANIZED. SEE SPECIFICATIONS 05 50 00 METAL FABRICATIONS.
2. SCREEN PLATFORM GRATING SHALL BE GALVANIZED, BANDED, AND SECURED TO SUPPORT BEAM WITH HBC-10 SADDLE CLIPS @ 16" O.C. (MINIMUM 2). USE 1/4" BOLT AND WELD NUT TO BOTTOM OF SUPPORT BEAM TOP FLANGE. PREDRILL 5/16" HOLE ON SUPPORT BEAM, COORD LOCATIONS WITH GRATING.
3. GRATING SHALL BE REMOVABLE ABOVE DRUM SCREEN. INDIVIDUAL PANELS SHALL BE LESS THAN 100 LBS. EDGE OF GRATING PANELS ADJACENT TO DRUM SCREEN GUIDE FRAME SHALL MAINTAIN A LESS THAN 1" CLEARANCE FROM FROM GUIDE FRAME.

REGISTERED PROFESSIONAL ENGINEER
90165PE
OREGON
SEPT 10, 2019
NEIL M. SCHWEITZER
EXPIRES: 06/30/2026

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NMS	CRS	JGE	5002-001	10-17-25	310-10

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - INTAKE STRUCTURE
PLATFORM DETAILS

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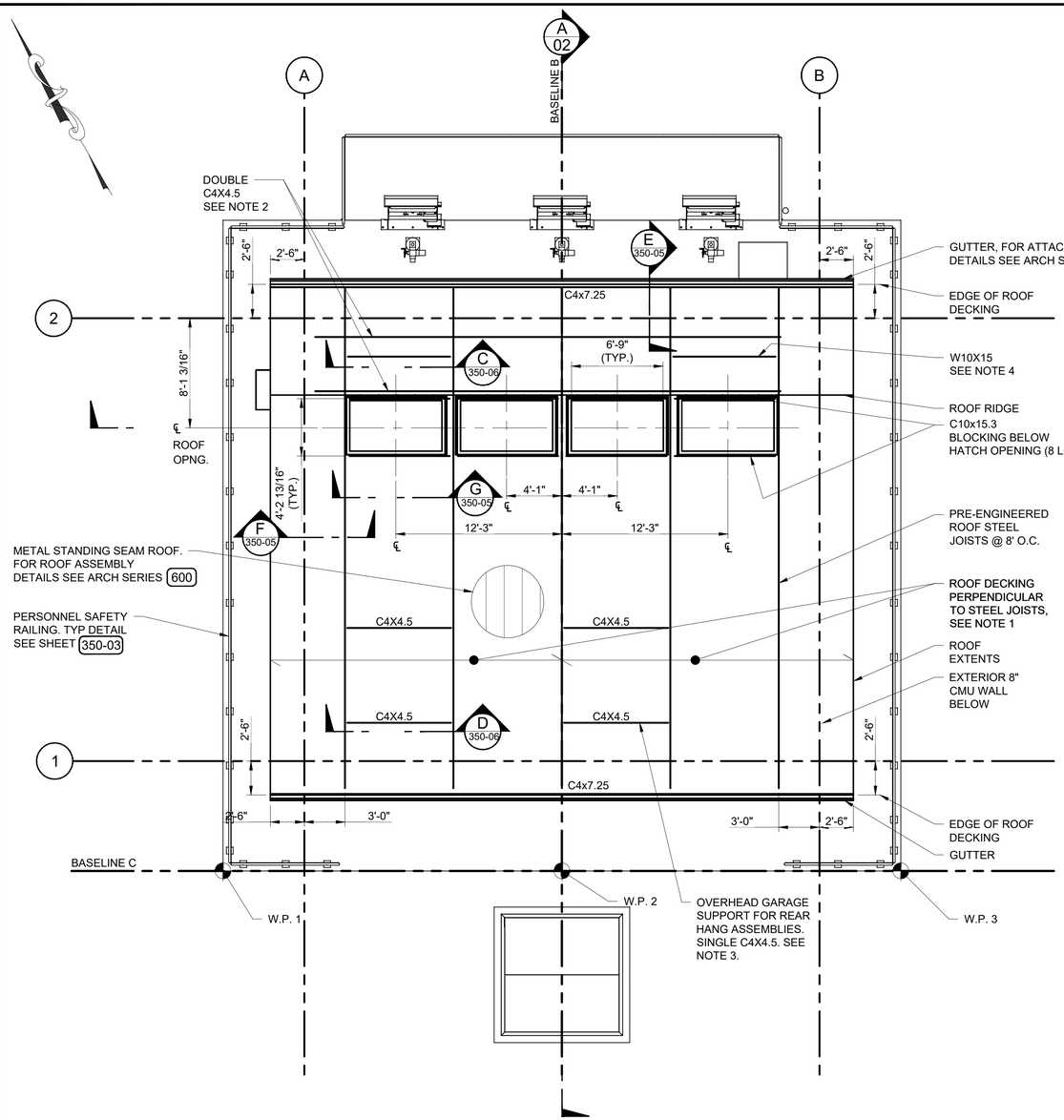
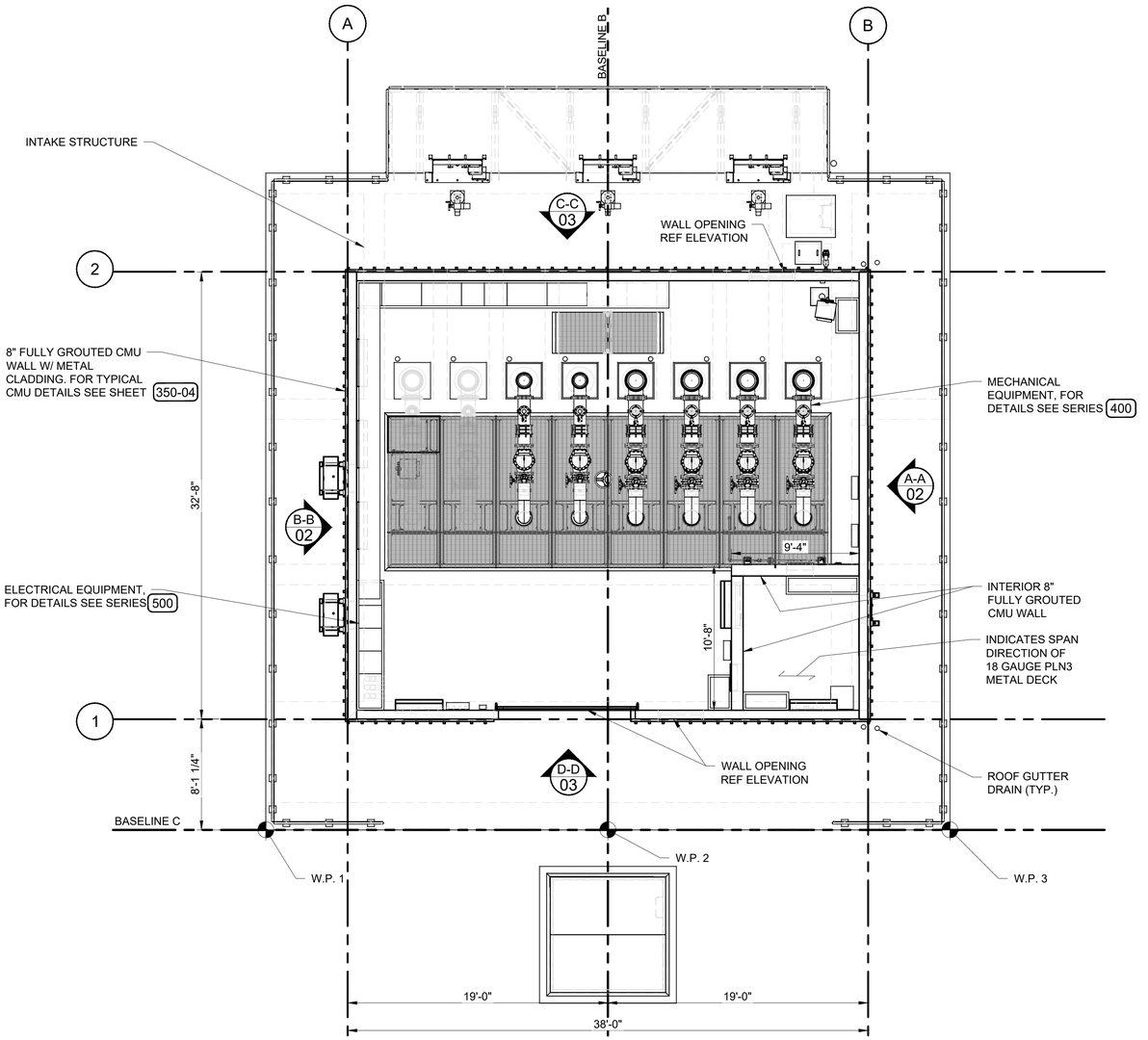
22x34 = FULL SCALE
3" 2" 1" 0



PUMP HOUSE ROOF PLAN

3/16"=1'-0"



PUMP HOUSE FLOOR PLAN

3/16"=1'-0"

NOTES:

1. ROOF DECK SHALL BE VERCO DECK, TYPE - PLB-36, GRADE 50, STEEL DECK GAGE 20, GALVANIZED (ASTM A653SS G-60).
   TRIPLE SPAN. END CONDITIONS: LAPPED.
   CONNECTION: ARC SPOT AND SEAM WELDS.
   DECK END CONNECTION PATTERN 36/7. DECK INTERIOR CONNECTION PATTERN: 36/4.
   STANDARD INTERLOCKING SIDE-LAP W/ PUNCHLOK II CONNECTION (VSC2) @ 12"O.C.
   SEE METAL DECK DETAIL ON SHEET **350-05**.
2. DOUBLE CHANNEL SUPPORT FOR CABLE TRAY. SPACING PER MAX CABLE TRAY SPAN PER MANUFACTURER. MAX 6'-0" O.C.
3. SINGLE CHANNEL SUPPORT FOR OVERHEAD DOOR REAR HANG ASSEMBLES. LOCATION AND QUANTITY TO BE DETERMINED BY OVERHEAD DOOR MANUFACTURER.
4. BEAM TO SUPPORT SAFETY TIE OFF POST. SEE DETAIL ON SHEET **350-06**.
5. ARCHITECTURAL DRAWINGS, SEE **600** SERIES.

5' 0 5 10

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OREGON
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5002-001	10-17-25	320-01

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - PUMP HOUSE
PLAN VIEWS

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22x34 = FULL SCALE

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22x34 = FULL SCALE
3"
2"
1"
0
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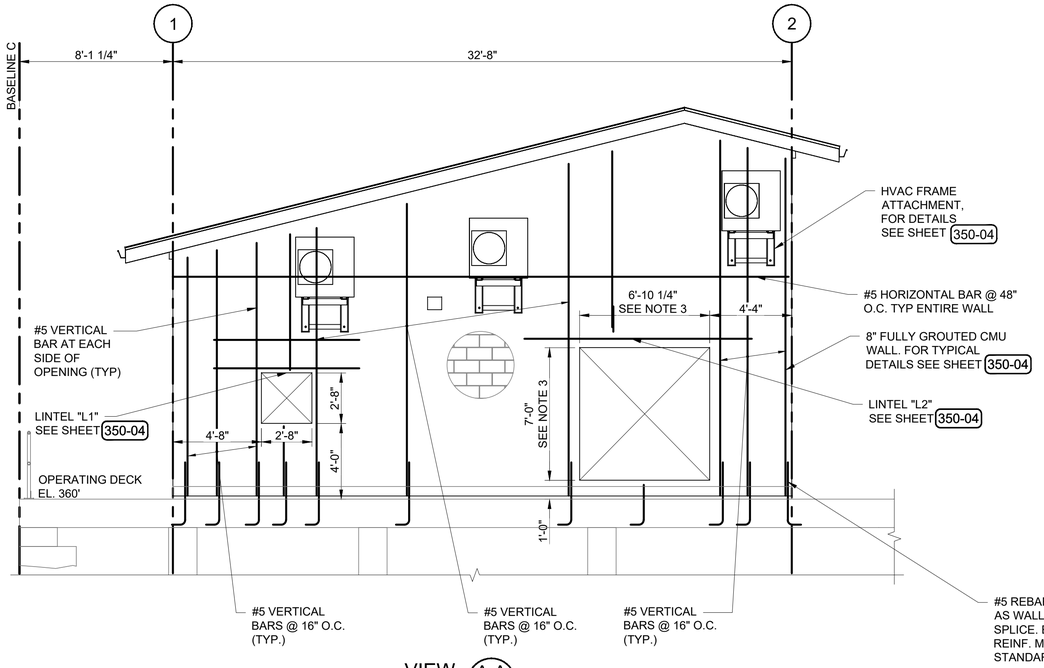
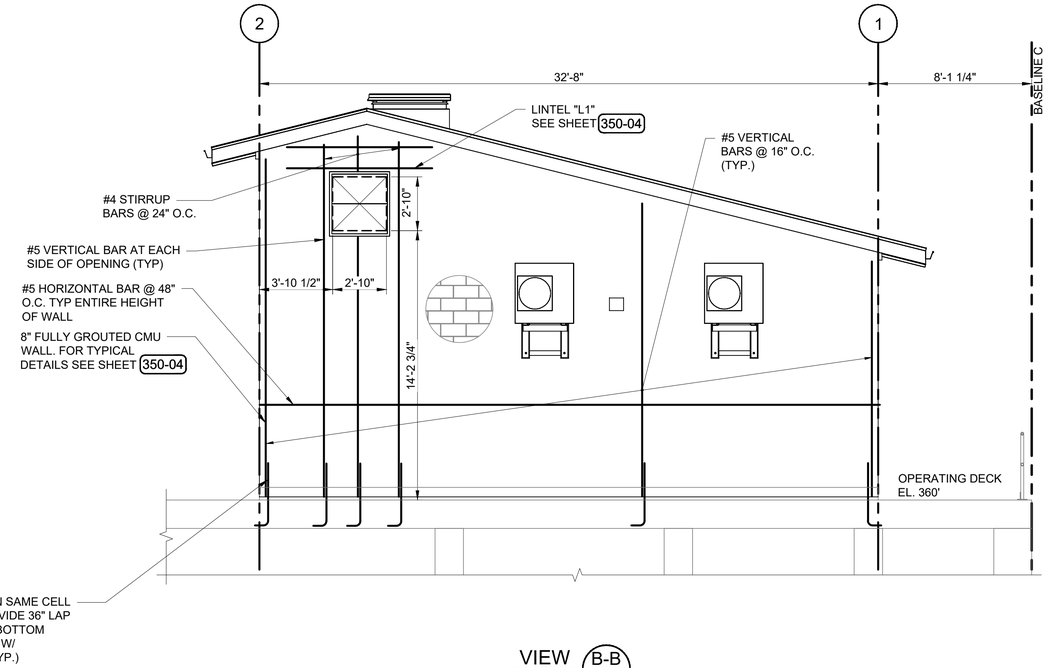
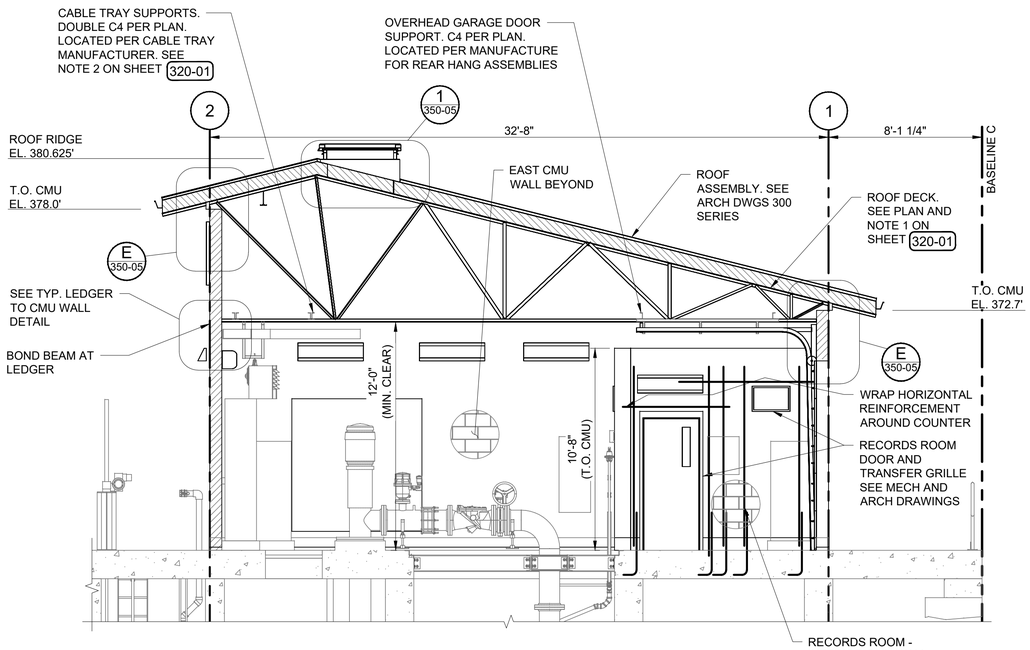
K:\Jobs\5002\001\Drawings\CAD\WORKING DRAWINGS\Joint Pump And Pipeline Project Design Set\5002001 320-02.dwg



VIEW A-A 01
1/4"=1'-0"



VIEW B-B 01
1/4"=1'-0"



SECTION A 01
1/4"=1'-0"

4' 0 4 8

NOTES:

1. EXTERIOR METAL PANEL NOT SHOWN FOR CLARITY. SEE ARCH DRAWING 600 SERIES.
2. REINFORCEMENT SHOWN IS IN ADDITION TO TYPICAL SPACING.
3. INTERIOR CMU WALL REINFORCEMENT SIMILAR TO EXTERIOR CMU WALL, 8" FULLY GROUTED CMU. #5 @ 24 O.C. VERT, #5 @ 48" O.C. HORIZ, #5 BAR VERT AROUND OPENING AND #5 HORIZ BOND BEAM ABOVE OPENING.
4. CONFIRM ROUGH OPENING REQUIRED FOR INSTALLATION OF INTAKE LOUVER.
5. TYPICAL CMU DETAILS, SEE SHEET **350-04**.

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - PUMP HOUSE
ELEVATIONS (1)

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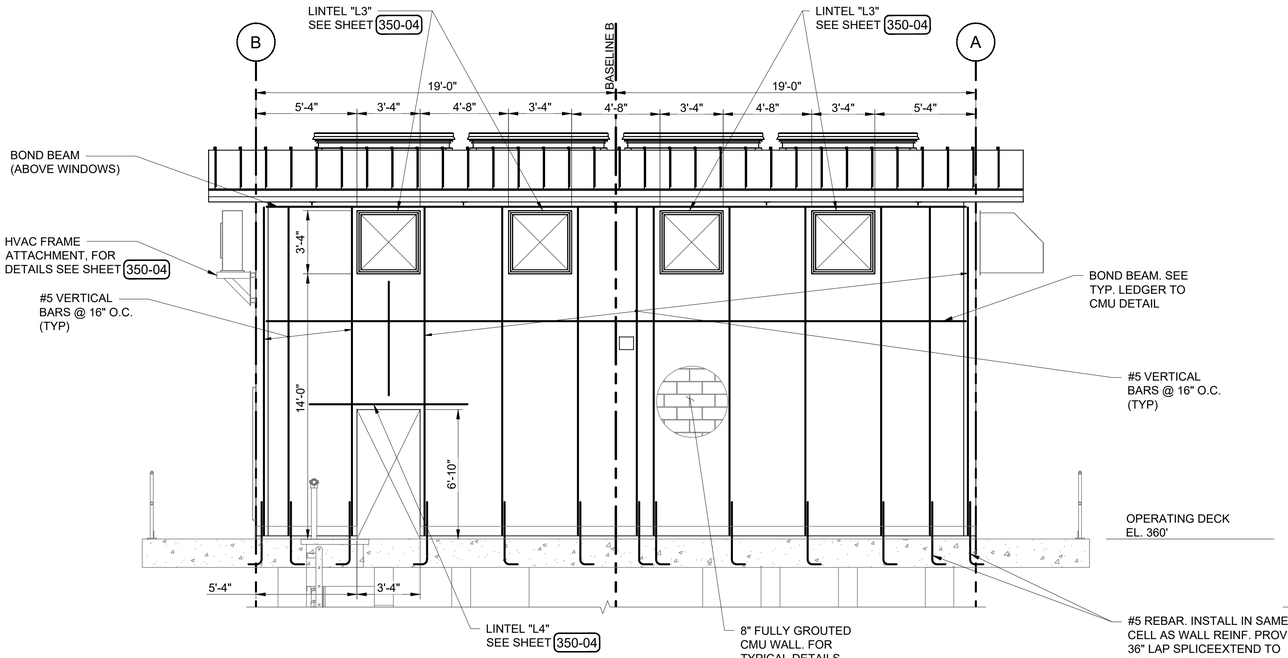
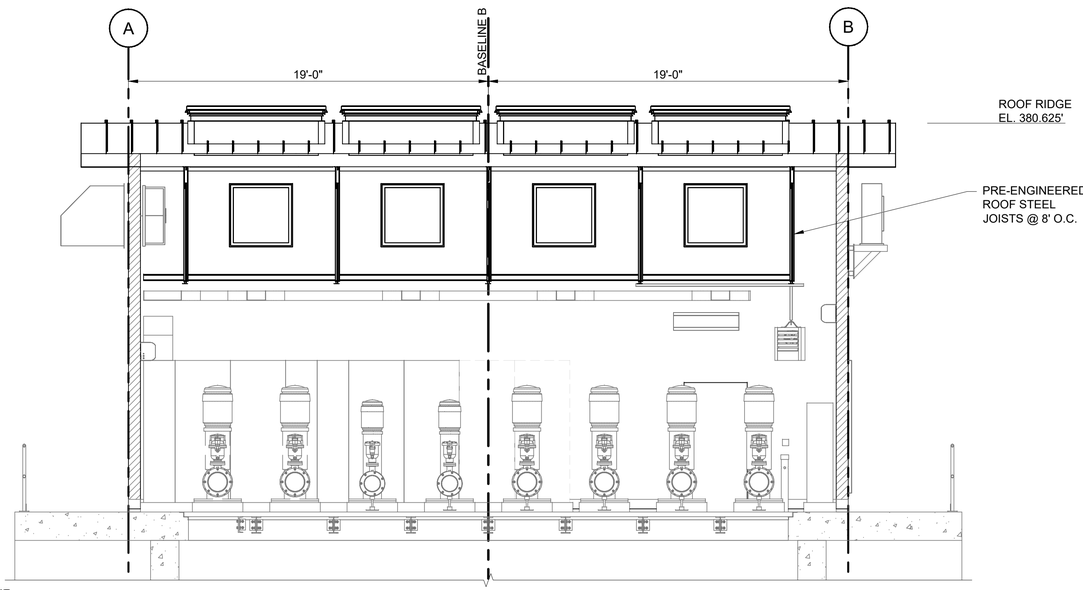
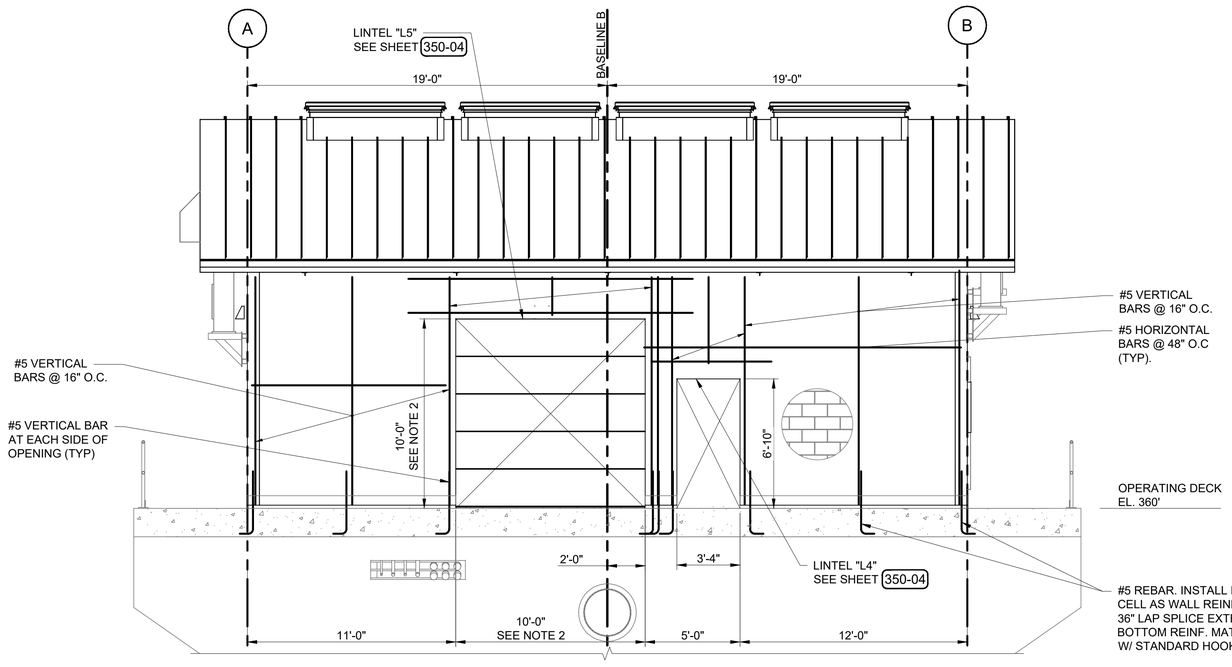


VIEW C-C 01
1/4"=1'-0"



SECTION B 01
1/4"=1'-0"



VIEW D-D 01
1/4"=1'-0"

4' 0 4 8

NOTES:

1. EXTERIOR METAL PANEL NOT SHOWN FOR CLARITY. SEE ARCH DRAWING **600** SERIES.
2. CONFIRM ROUGH OPENING FOR OVERHEAD GARAGE DOOR INSTALLATION.
3. TYPICAL CMU DETAILS, SEE SHEET **350-04**.

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OREGON
SEPT 10, 2019
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CITY OF UMATILLA
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CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - PUMP HOUSE
ELEVATIONS (2)

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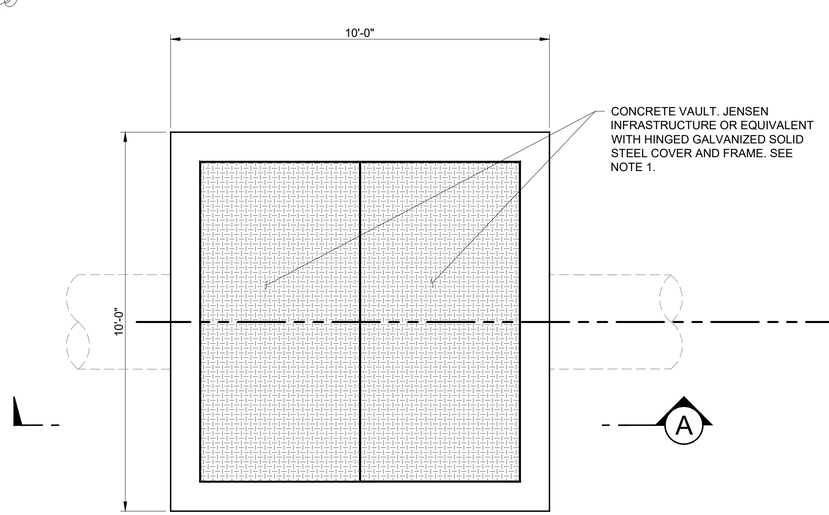
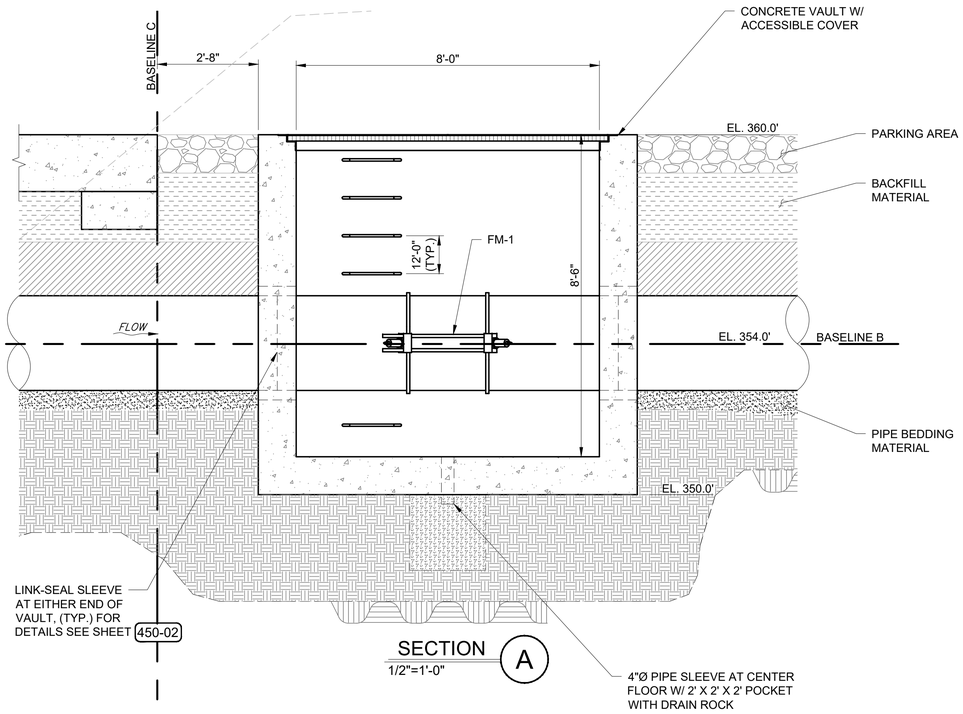
22x34 = FULL SCALE
3" 2" 1" 0

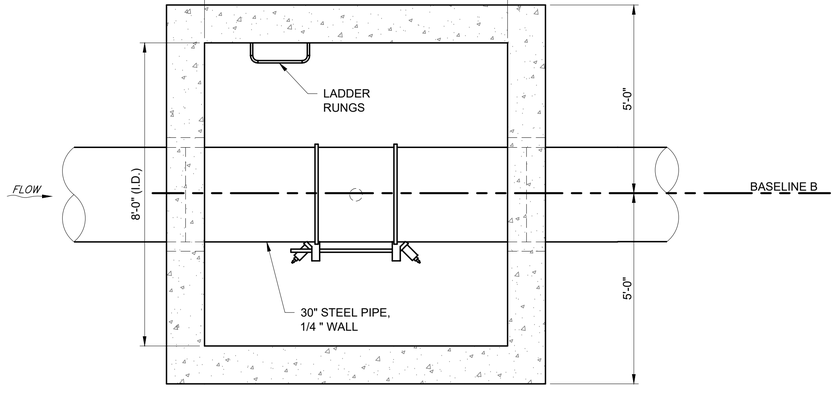
22x34 = FULL SCALE



VAULT PLAN
1/2"=1'-0"



SECTION A
1/2"=1'-0"



PLAN @ EL. 359.0'
1/2"=1'-0"

2' 0 2 4

NOTE:
1. CIRCULAR CONCRETE VAULT IS ACCEPTABLE. CONTRACTOR TO CONFIRM WITH FLOW METER SUPPLIER ACCESS AND CLEARANCE REQUIREMENT FOR INSTALLATION AND MAINTENANCE. COVER FRAME SHALL BE H-20 RATED GALVANIZED STEEL.
2. COORDINATE INSTALL AND LOCATION OF PIPE AND EQUIPMENT SUPPORT PER MECH. DWGS. & SHEET 450-02
3. COORDINATE INSTALL AND LOCATION OF ELECTRICAL CONDUITS PER ELEC. DWGS.

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Designed	Drawn	Checked
QC	CRS	CWC

CITY OF UMATILLA
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CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - FLOW METER VAULT
SECTIONS & DETAILS

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Project No.	Date Revised	Drawing No.
5002-001	10-17-25	330-01

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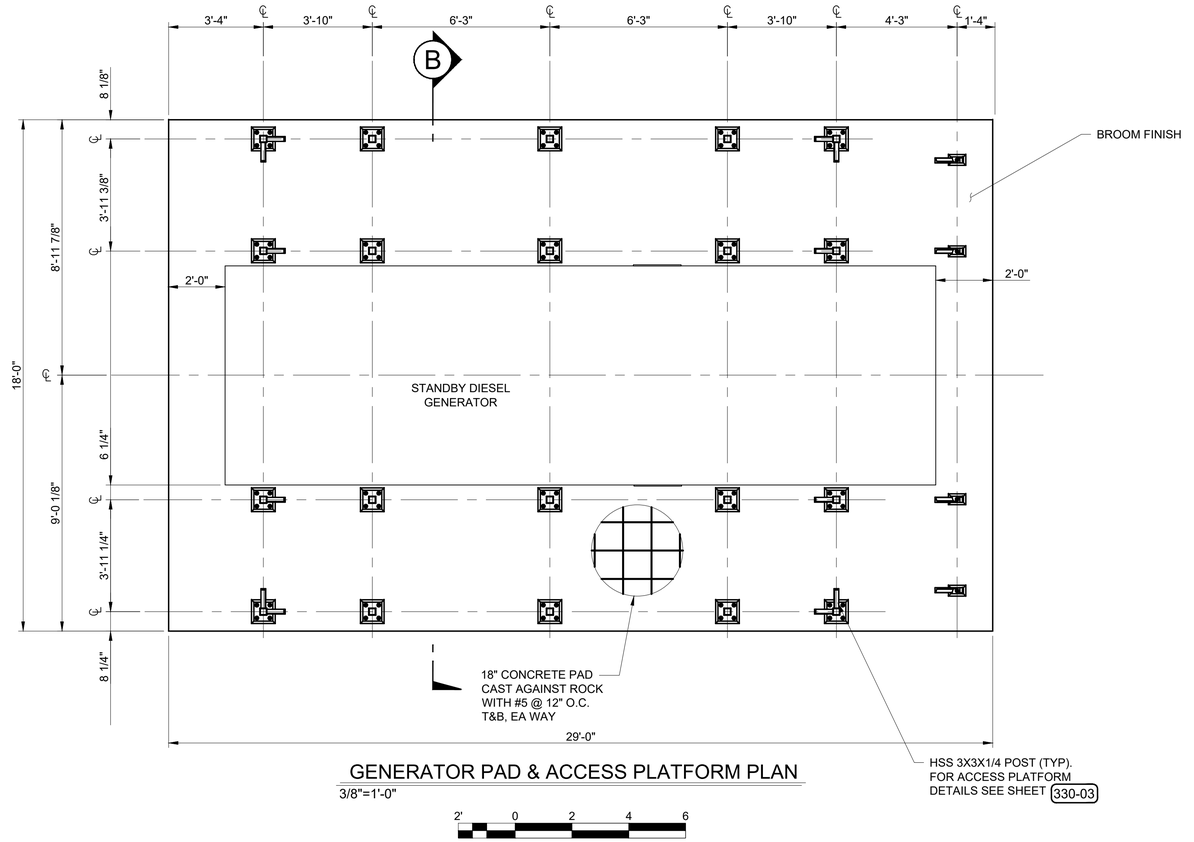
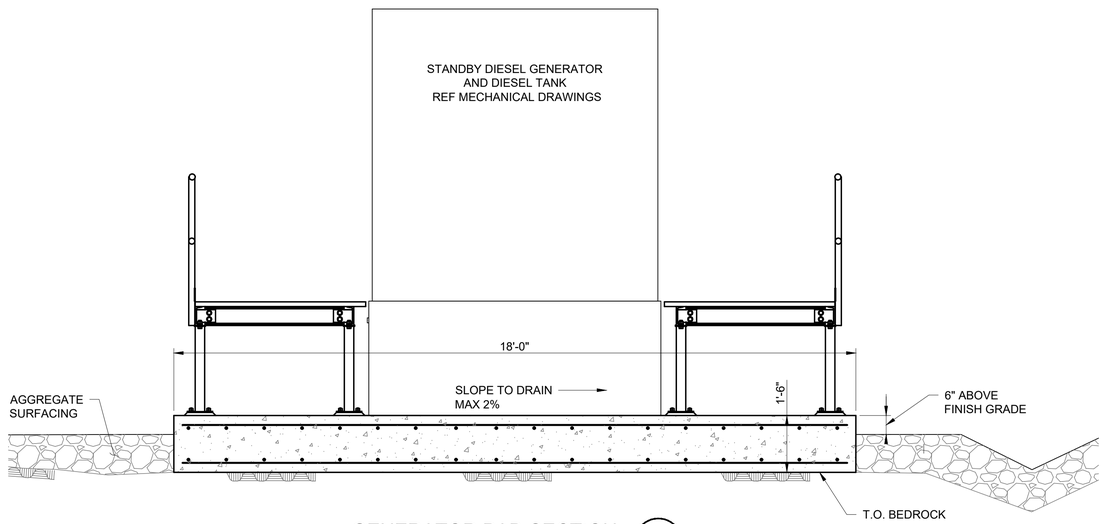


GENERATOR PAD & ACCESS PLATFORM PLAN

3/8"=1'-0"

2' 0 2 4 6



GENERATOR PAD SECTION (B)

1/2"=1'-0"

2' 0 2 4

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CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - GENERATOR PAD SECTIONS & DETAILS

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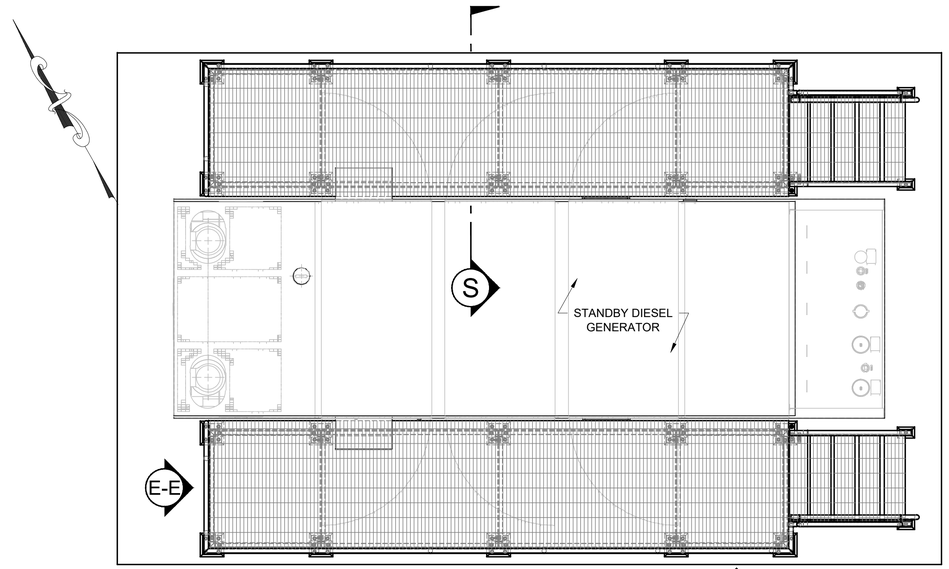
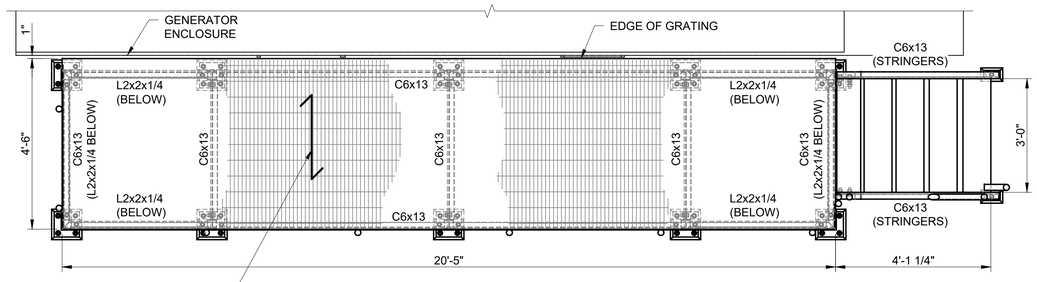


ACCESS PLATFORM PLAN
3/8"= 1'-0"



FRAMING & GRATING PLAN
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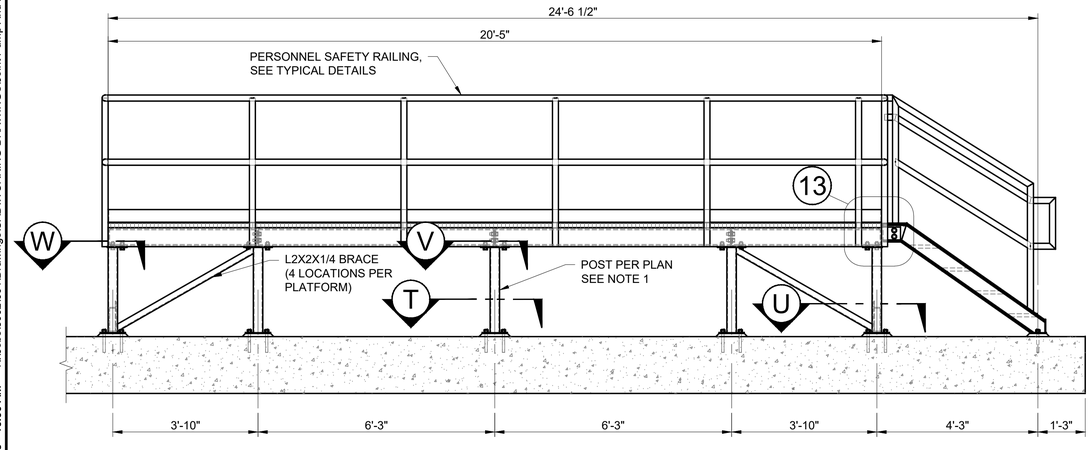

ELEVATION D-D
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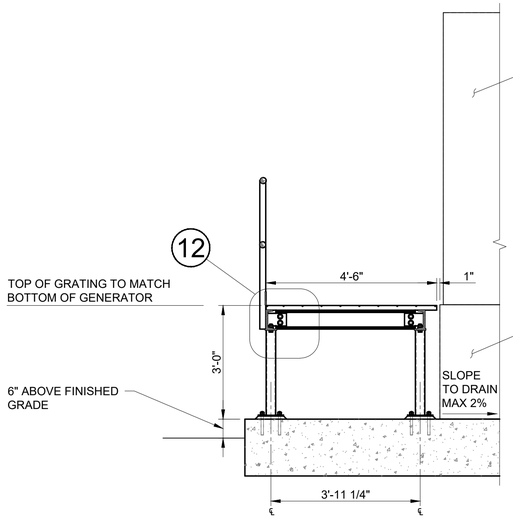

SECTION S
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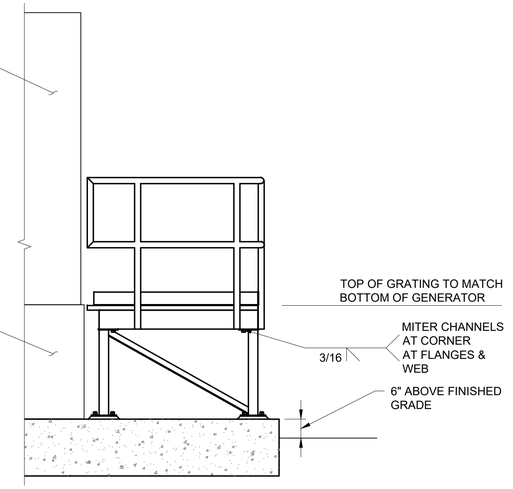

END ELEVATION E-E
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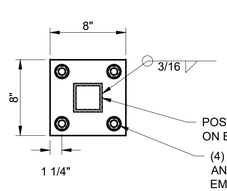
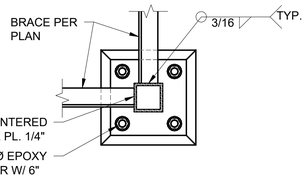


BASE PLATE DETAIL T
1 1/2"= 1'-0"



BRACE DETAIL U
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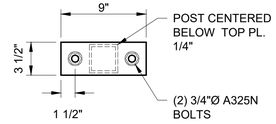

INTERMEDIATE POST DETAIL V
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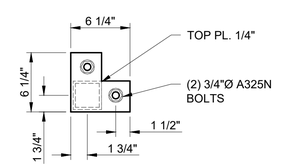
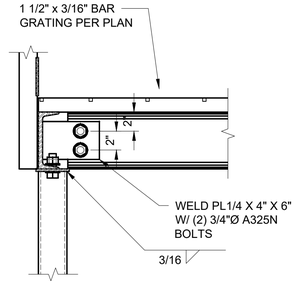


CORNER POST DETAIL W
1 1/2"= 1'-0"



DETAIL 12
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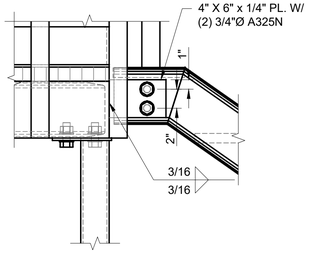

DETAIL 13
1 1/2"= 1'-0"

Know what's below. Call before you dig.

NOTES:
1. USE NON-SHRINK GROUT BELOW POST BASE PLATE TO MAINTAIN PLUMBNESS AS REQUIRED.

REGISTERED PROFESSIONAL ENGINEER
90165PE
OREGON
SEPT 10, 2019
NEIL M. SCHWEITZER
EXPIRES: 06/30/2026

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	JGE

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
NMS	CRS	JGE	5002-001	10-17-25	330-03

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - GENERATOR PAD
ACCESS PLATFORM DETAILS

Kleinschmidt
888-224-5942
KleinschmidtGroup.com

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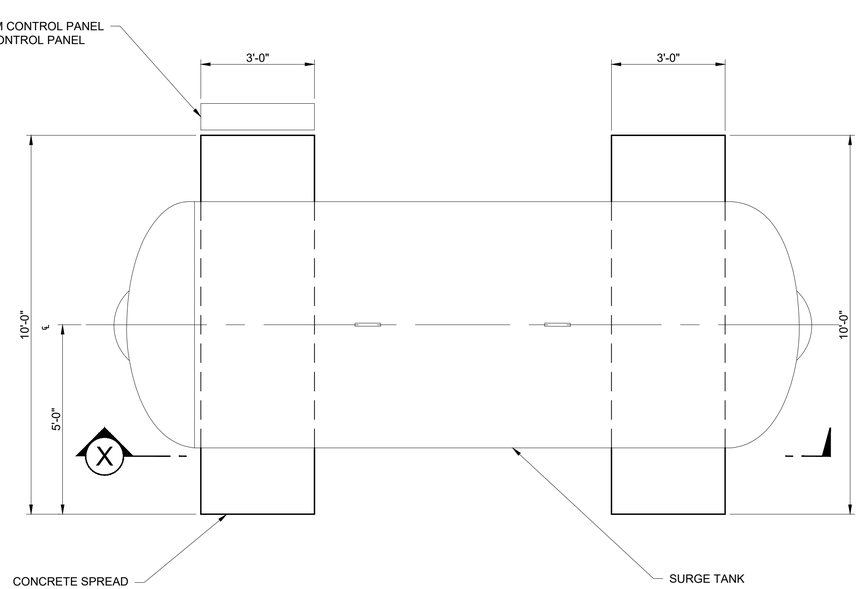
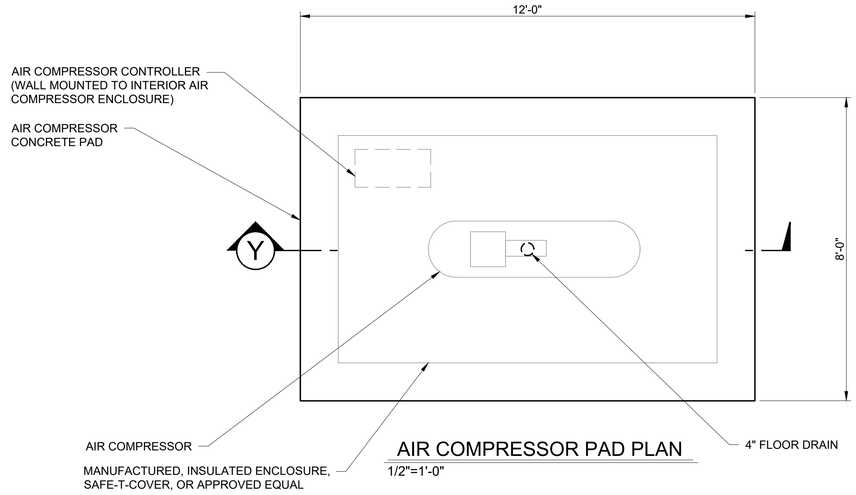
22x34 = FULL SCALE



SURGE TANK PAD PLAN

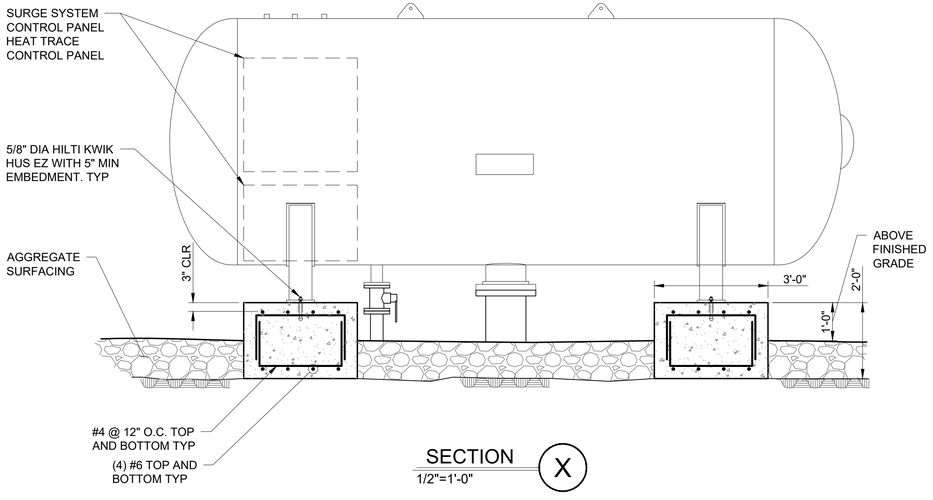
1/2"=1'-0"

2' 0 2 4



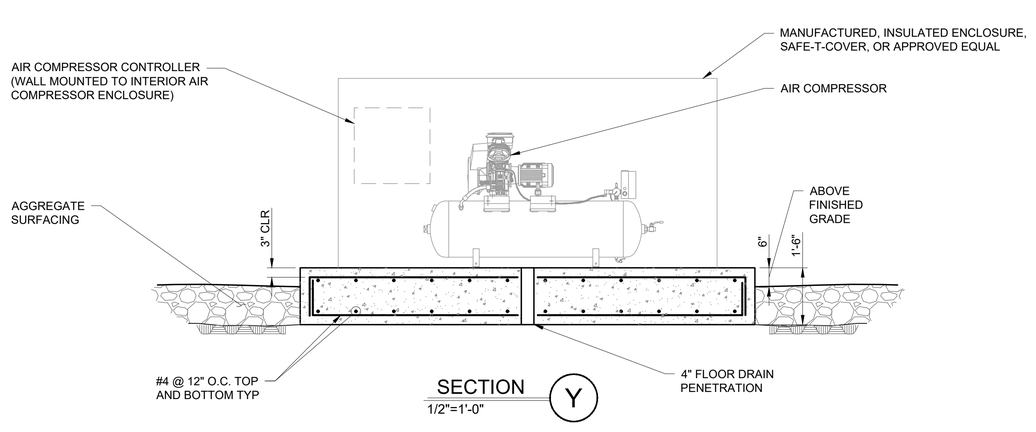
AIR COMPRESSOR PAD PLAN

1/2"=1'-0"



SECTION X

1/2"=1'-0"



SECTION Y

1/2"=1'-0"

Know what's below. Call before you dig.

NOTES:

1. COORDINATE TANK AND AIR COMPRESSOR FOUNDATION DIMENSIONS AND LOCATIONS WITH EQUIPMENT PROVIDED.
2. SEE SPECIFICATION SECTION 43 42 21 FOR ADDITIONAL INFORMATION.

REGISTERED PROFESSIONAL ENGINEER
97784PE
Jennifer M Esteban
OREGON
NOV 09, 2021
JENNIFER GALBADORES ESTEBAN
11/20/26
EXPIRES: 12/31/2027

No.	Revision	Date	Drawn	Checked
1	ISSUED FOR BID	05-20-26	BJL	CWC
0	ISSUED FOR BID	10-17-25	BJL	CWC

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
NMS	BJL	JGE	5002-001	05-20-26	330-04

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - SURGE TANK & AIR COMPRESSOR PLAN & SECTIONS

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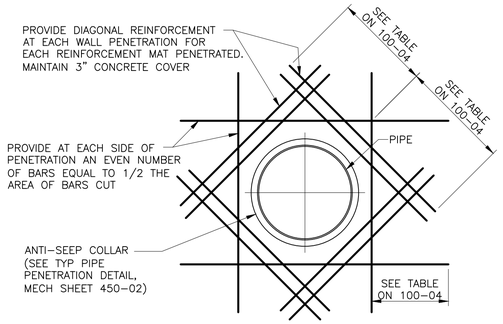
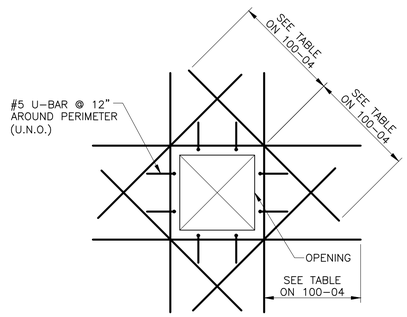


PIPE PENETRATION

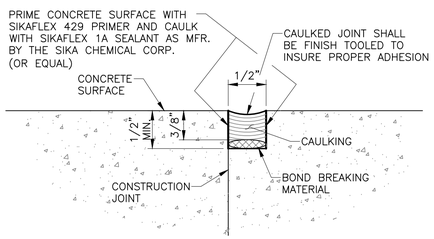


SQUARE PENETRATION

NOTES:
1. PROVIDE ADDITIONAL REINFORCEMENT SHOWN FOR EACH MAT PENETRATED.
2. AT WALL CORNERS OR SLABS, ACI STANDARD HOOKS MAY BE USED TO GIVE Ld.
3. ELIMINATE BARS FOR PENETRATIONS AS NEEDED AROUND CONTAINMENT WALLS.

TYPICAL PENETRATION REINFORCEMENT DETAIL

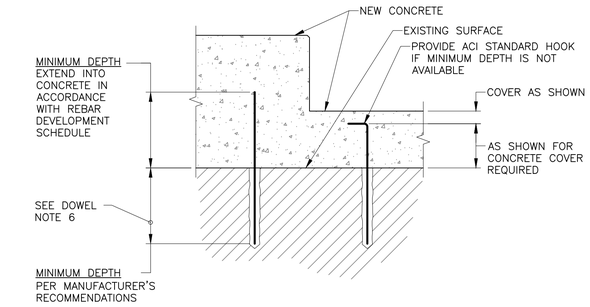
NOT TO SCALE



NOTE:
APPLY MATERIALS PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

TYPICAL CAULKED JOINT DETAIL

NOT TO SCALE

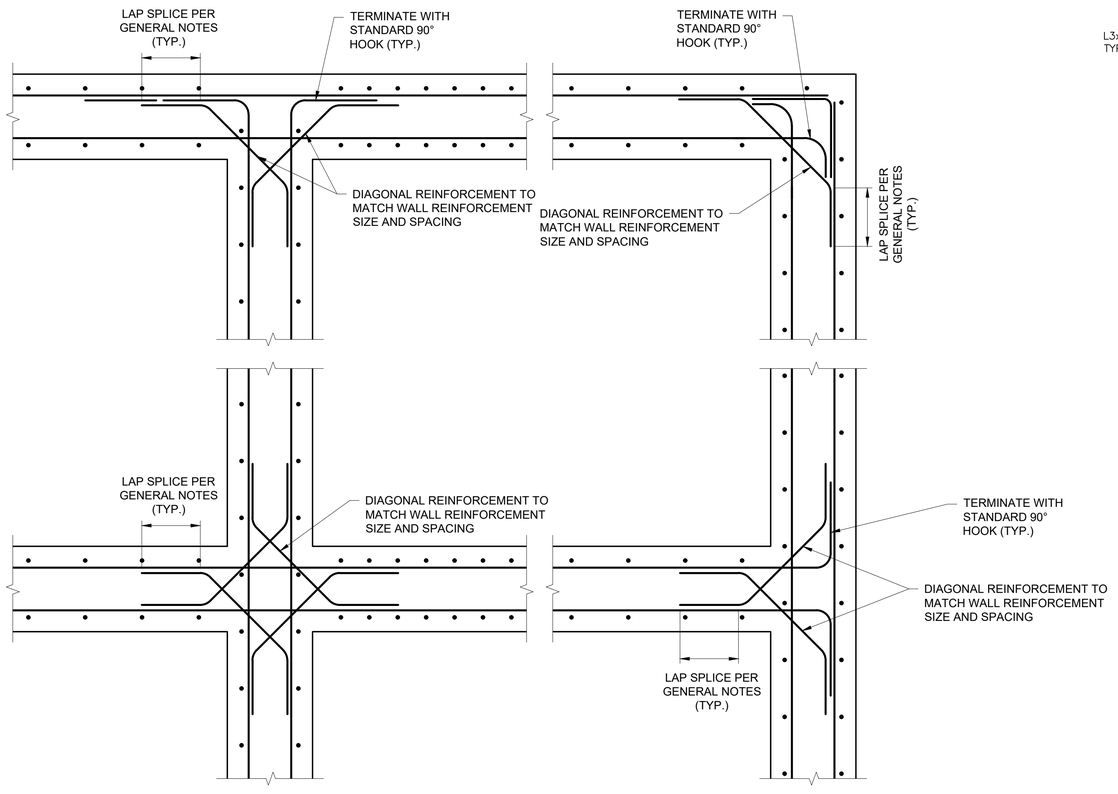


DOWEL DETAIL

N.T.S.

DOWEL NOTES:

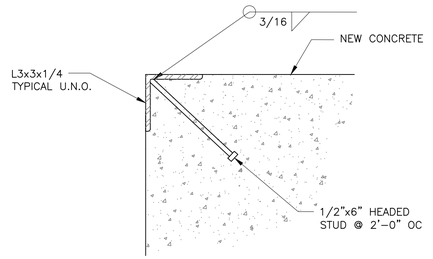
1. CLEAN HOLE WITH AIR PRESSURE TO REMOVE DUST AND STANDING WATER. USE OIL FREE AIR COMPRESSOR, HOLES MAY BE DAMP.
2. EPOXY GROUT: SHALL BE HILTI HIT-RE 500 V3 EPOXY GROUT, OR APPROVED EQUIVALENT. SELECTED EPOXY GROUT MUST BE SUITABLE FOR USE IN WET HOLES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ENSURE THAT HOLES ARE COMPLETELY FILLED WITH EPOXY GROUT.
3. WHERE SURFACES ARE VERTICAL, HOLES MAY BE INSTALLED WITH A SMALL DOWNWARD ANGLE OR USING MANUFACTURER'S HOLE STOPPER AND INJECTION SYSTEM.
4. IF CONCRETE IS LAYERED, EXTEND EMBEDMENT A MINIMUM OF 24" INTO SOUND UNDERLAYER AS INSTRUCTED BY THE OWNER WITH RECOMMENDATIONS FROM THE ENGINEER.
5. IF INSTALLING IN POOR QUALITY CONCRETE OR BEDROCK, CONTACT OWNER/ENGINEER FOR FURTHER DIRECTION.
6. EMBEDMENT DEPTH OF HOLE PER DRAWINGS, OR MANUFACTURER INSTRUCTIONS IF NOT SPECIFIED ON DRAWINGS.



TYP. DIAGONAL REINFORCEMENT AT CORNERS

3/4" = 1'-0"

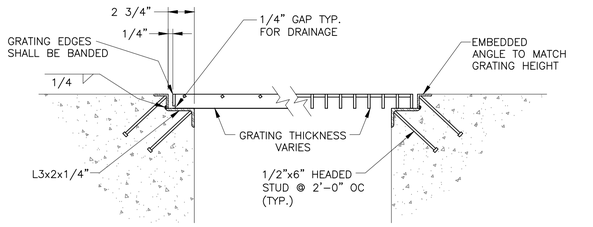
1' 0 1 2 3



TYPICAL CORNER ARMOR DETAIL

3"=1'-0"

4" 0 4 8



TYPICAL EMBEDDED GRATING SEAT DETAIL

1 1/2"= 1'-0"

NOTE:
EMBEDDED STEEL ANGLES GALVANIZE AFTER FABRICATION.

6" 0 6 12 18

Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER
90165PE
OREGON
SEPT 10, 2019
NEIL M. SCHWEITZER
EXPIRES: 06/30/2026

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	JGE

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Designed	Drawn	Checked
NMS	BJL	JGE

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - TYPICAL DETAILS
CONCRETE DETAILS

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Project No.	Date Revised	Drawing No.
5002-001	10-17-25	350-01

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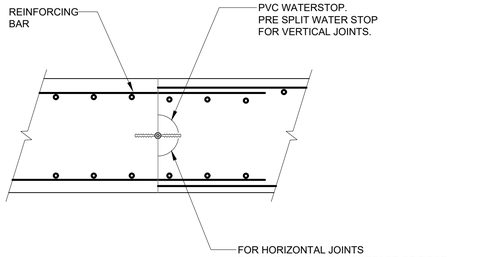
22x34 = FULL SCALE
3" 2" 1" 0

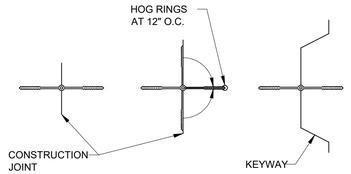
3"
2"
1"
0
22x34 = FULL SCALE



(WALLS AND MASS CONCRETE)

TYPICAL CONSTRUCTION JOINT WITH WATERSTOP DETAIL

N.T.S.



PVC WATERSTOP INSTALLATION IN FORMED CONSTRUCTION JOINTS

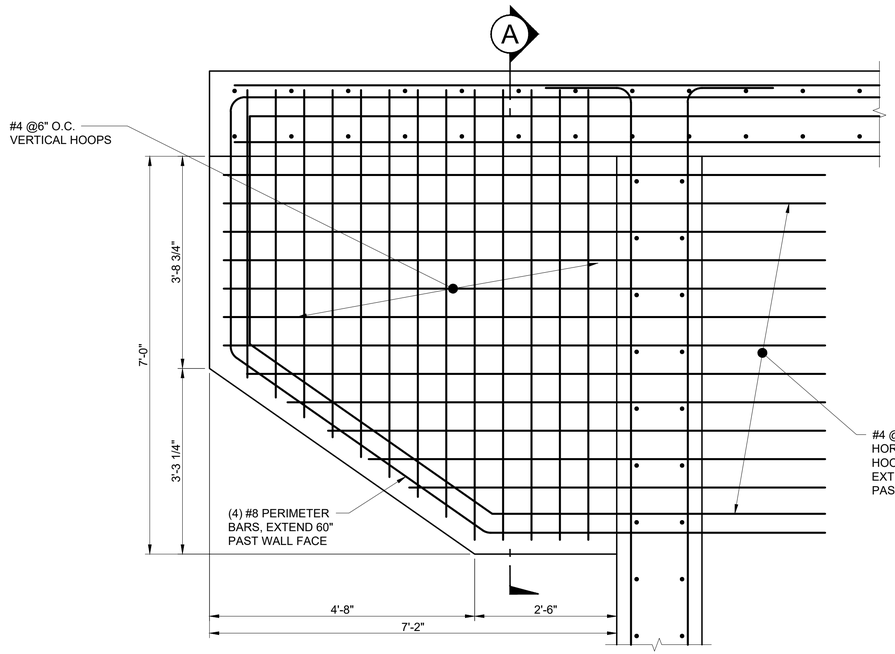
N.T.S.

NOTES:

1. INSTALL PVC RIBBED WATERSTOP BY ONE OF THE METHODS SHOWN ABOVE.
2. SECURE WATERSTOP IN FORM TO PREVENT MOVEMENT OR FOLDING DURING CONCRETE PLACEMENT.
3. SYSTEMATICALLY AND THOROUGHLY VIBRATE CONCRETE AROUND WATERSTOP TO PREVENT VOIDS.
4. DO NOT LAP SPLICE.
5. PRE-SPLIT WATERSTOP MAY BE USED FOR STRAIGHT RUNS ONLY. TRANSITIONS AND INTERSECTIONS ARE NOT RECOMMENDED.
6. WATERSTOP TO PROVIDE MINIMUM RESISTANCE OF 150' OF HEAD PRESSURE

WATERSTOP NOTES

1. PROVIDE 6" PVC WATERSTOPS EMBEDDED IN CONCRETE, SPANNING CONTROL AND CONSTRUCTION JOINTS, AND AT JOINTS BETWEEN EXISTING AND NEW CONCRETE TO CREATE A CONTINUOUS DIAPHRAGM TO PREVENT WATER MIGRATION. PROVIDE WATERSTOPS IN ALL JOINTS REACHING THE EXTERIOR OF THE BUILDING BELOW FLOOD LEVELS, BEDROCK SURFACES, OR THE WATER PASSAGES OF THE STRUCTURE AND OTHER AREAS WHERE SHOWN. PROVIDE THOROUGH CONSOLIDATION OF CONCRETE AROUND WATERSTOP AND PREVENT FORMATION OF AIR POCKETS AND VOIDS.
2. THE DRAWINGS DO NOT DEPICT ALL LOCATIONS OF WATERSTOP.
3. ALL WATERSTOP SHALL BE INSTALLED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF CONCRETE.
4. WALLS OR COMPONENTS WITH WATER OR BUILDING EXTERIOR ON TWO SIDES, AND LESS THAN OR EQUAL TO 3'-0" THICKNESS, REQUIRE ONE DIAPHRAGM OF WATERSTOP, LOCATED APPROXIMATELY AT THE CENTER OF THE WALL.
5. WALLS OR COMPONENTS WITH WATER OR BUILDING EXTERIOR ON TWO SIDES, AND MORE THAN 3'-0" THICK SHALL REQUIRE TWO DIAPHRAGMS OF WATERSTOP, WITH ONE AT EACH FACE OF THE CONCRETE.
6. WATERSTOPS SHALL MEET US ARMY CORPS OF ENGINEERS CRD-C 572-74.
7. PVC WATERSTOPS SHALL BE PAUL MURPHY PLASTICS COMPANY'S WIRESTOP OR AN APPROVED EQUAL.
8. THE PVC WATERSTOP SHALL BE EXTRUDED FROM AN ELASTOMERIC PLASTIC MATERIAL OF WHICH THE BASIC RESIN IS PRIME VIRGIN POLYVINYL CHLORIDE. THE PVC COMPOUND SHALL NOT CONTAIN ANY SCRAPPED OR RECLAIMED MATERIAL OR PIGMENT WHATSOEVER.
9. PROVIDE FACTORY-MADE WATERSTOP FABRICATIONS FOR ALL CHANGES OF DIRECTION, INTERSECTIONS, AND TRANSITIONS, LEAVING ONLY STRAIGHT BUTT JOINT SPLICES TO BE MADE IN THE FIELD.
10. FIELD BUTT SPLICES SHALL BE HEAT FUSED/WELDED USING TEFLON COATED THERMOSTATICALLY CONTROLLED WATERSTOP SPLICING IRON AT APPROXIMATELY 380 DEGREES. FOLLOW APPROVED MANUFACTURERS RECOMMENDATIONS. LAPPING OF WATERSTOP, USE OF ADHESIVES, OR SOLVENTS SHALL NOT BE ALLOWED.
11. WATERSTOP SPLICING DEFECTS WHICH ARE UNACCEPTABLE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
    - A. TENSILE STRENGTH LESS THAN 80 PERCENT OF PARENT SECTION.
    - B. MISALIGNMENT OF CENTER BULB, AND RIBS, GREATER THAN 1/16 INCH.
    - C. BOND FAILURE AT JOINT DEEPER THAN 1/16 INCH OR 15 PERCENT OF MATERIAL THICKNESS.
    - D. MISALIGNMENT WHICH REDUCES WATERSTOP CROSS SECTION MORE THAN 15 PERCENT.
    - E. VISIBLE POROSITY IN THE WELD.
    - F. BUBBLES OR INADEQUATE BONDING.
    - G. VISIBLE SIGNS OF SPLICE SEPARATION WHEN COOLED SPLICE IS BENT BY HAND AT A SHARP ANGLE.
    - H. CHARRED OR BURNT MATERIAL.
12. WATERSTOPS SHALL BE CONTINUOUS AROUND CORNERS AND EXTEND THE ENTIRE LENGTH OF THE JOINT.
13. SUPPORT WATERSTOP FROM REINFORCEMENT OF FRAMEWORK AT MAXIMUM SPACING OF 12" ON CENTER ON EACH EDGE.
14. PROVIDE THOROUGH CONSOLIDATION OF CONCRETE AROUND WATERSTOP AND PREVENT FORMATION OF AIR POCKETS AND VOIDS.



TYP. REINFORCEMENT AT CORBEL

3/4" = 1'-0"

SECTION A

3/4" = 1'-0"

Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER
90165PE
OREGON
SEPT 10, 2019
NEIL M. SCHWEITZER
EXPIRES: 06/30/2026

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	JGE

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - TYPICAL DETAILS
CONCRETE AND WATERSTOP DETAILS

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
NMS	BJL	JGE	5002-001	10-17-25	350-02

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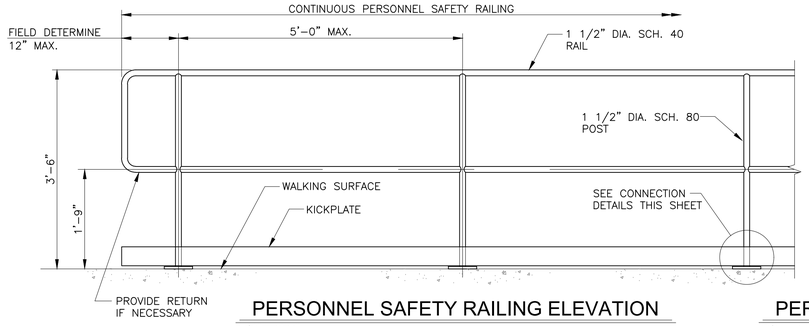
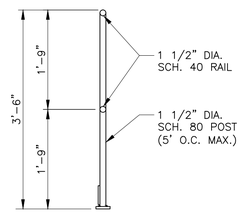


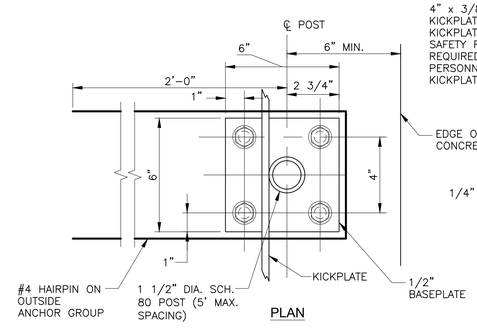
PERSONNEL SAFETY RAILING ELEVATION

3/4"= 1'-0"

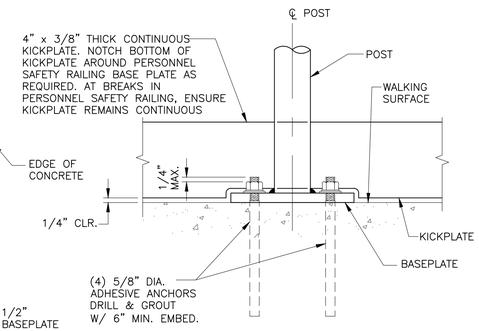


PERSONNEL SAFETY RAILING PROFILE

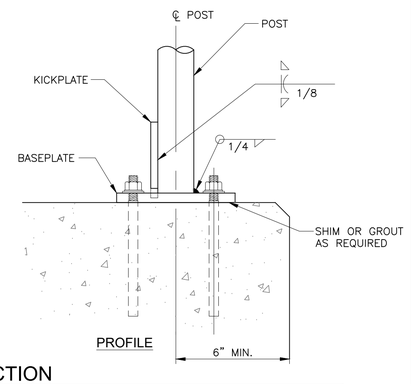
3/4"= 1'-0"



PLAN



ELEVATION

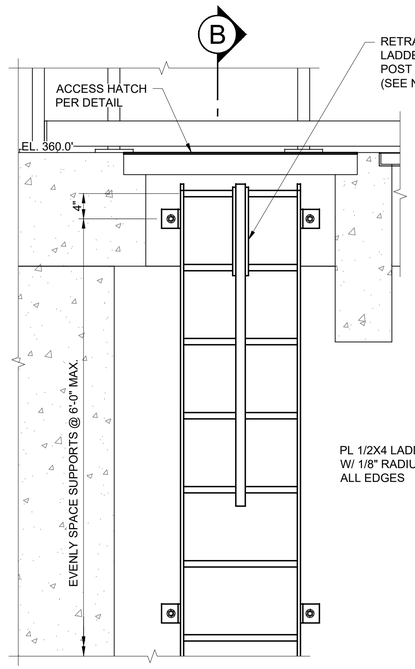


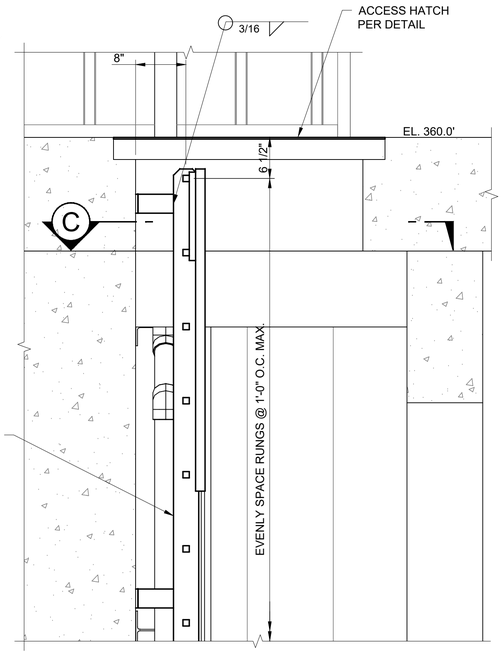
PROFILE

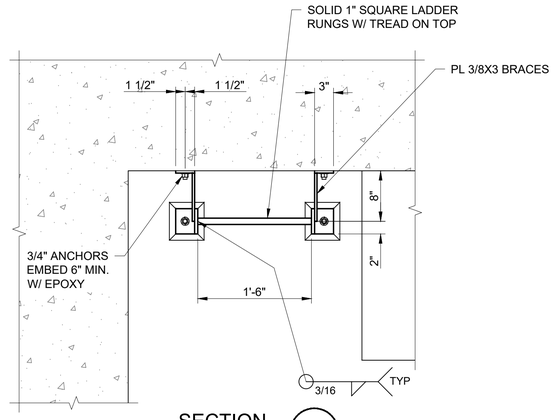
PERSONNEL SAFETY RAILING - TOP OF CONCRETE CONNECTION

3"=1'-0"

1' 0 1 2 3

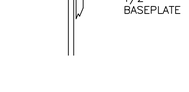




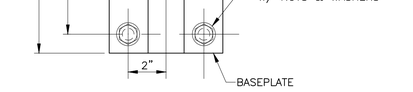


SECTION C

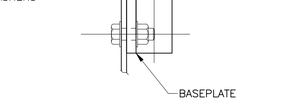
1"=1'-0"



PLAN



ELEVATION

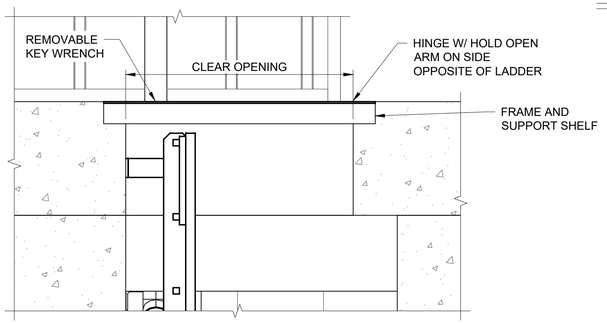


PROFILE

PERSONNEL SAFETY RAILING - SIDE OF STEEL CONNECTION

3"=1'-0"

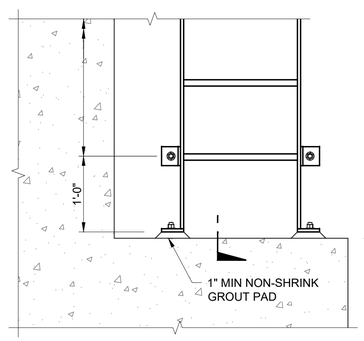
4" 0 4 8



ACCESS HATCH

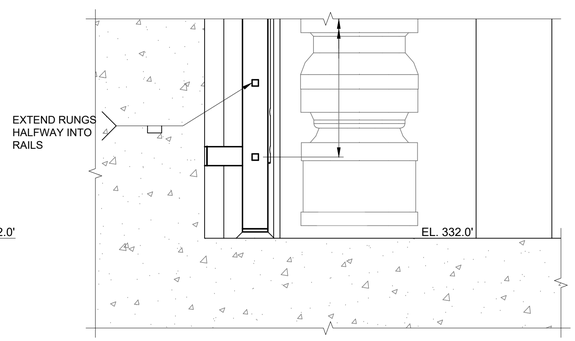
1"=1'-0"

1' 0 1 2



ACCESS LADDER

1"=1'-0"



SECTION B

1"=1'-0"

GENERAL NOTES:

1. ACCESS LADDERS SHALL BE FABRICATED OF ALUMINUM. ALL FASTENERS AND ANCHORAGE SHALL BE STAINLESS STEEL. HATCHES SHALL CONFORM TO SPECIFICATION 08 31 00.
2. COAT ALL ALUMINUM IN CONTACT WITH CONCRETE OR GROUT.
3. RETRACTABLE LADDER SAFETY POST SHALL EXTEND 42" ABOVE DECK LEVEL. VERTICAL ACCESS LADDERS MORE THAN 24 FEET SHALL ALSO HAVE FALL RESTRAINT SYSTEM IN PLACE (FRONTLINE VLRS SECURAIL PRO VERTICAL LIFELINE SYSTEM OR EQUIVALENT)

REGISTERED PROFESSIONAL ENGINEER
90165PE
OREGON
SEPT 10, 2019
NEIL M. SCHWEITZER
EXPIRES: 06/30/2026

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No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	JGE

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - TYPICAL DETAILS
PERSONNEL SAFETY RAILING AND LADDER

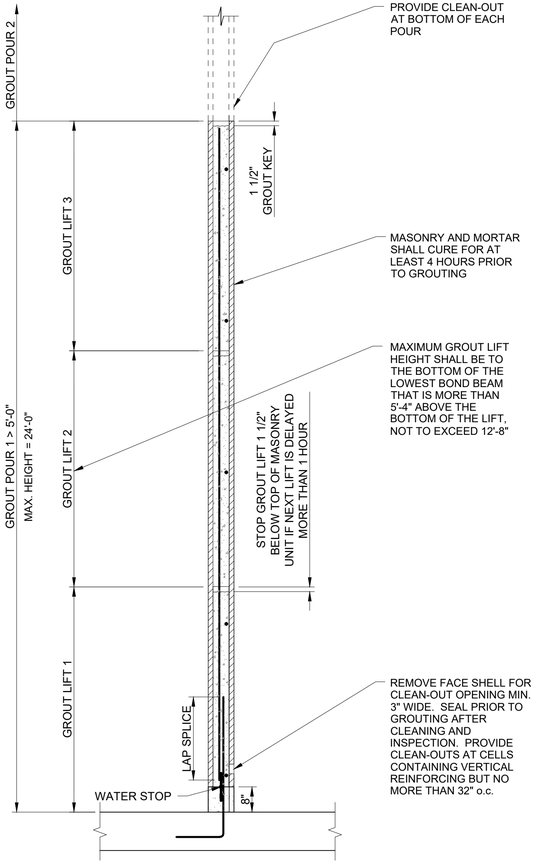
Kleinschmidt
888-224-5942
KleinschmidtGroup.com

Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
NMS	BJL	JGE	5002-001	10-17-25	350-03

PRINTED: Oct. 21, 2025 - 10:05 AM K:\Jobs\5002001\Drawings\CAD\WORKING DRAWINGS\Joint Pump And Pipeline Project Design Set\5002001 350-03.dwg

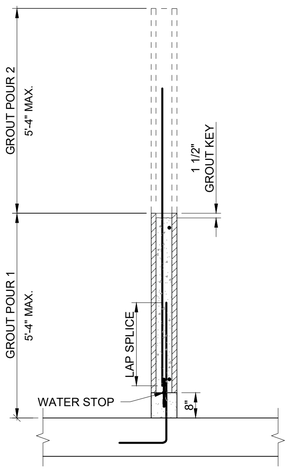
22x34 = FULL SCALE

22x34 = FULL SCALE



HIGH LIFT GROUTING

NOTE:
GROUT MUST BE CONSOLIDATED WITH A MECHANICAL VIBRATOR AND RECONSOLIDATED AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.

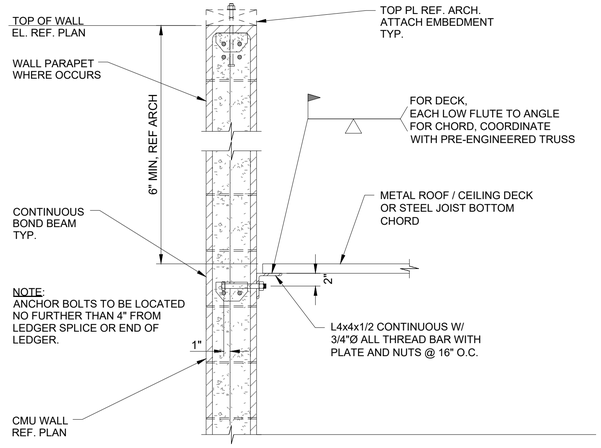


LOW LIFT GROUTING

TYP. MASONRY GROUTING DETAIL

1/2"=1'-0"

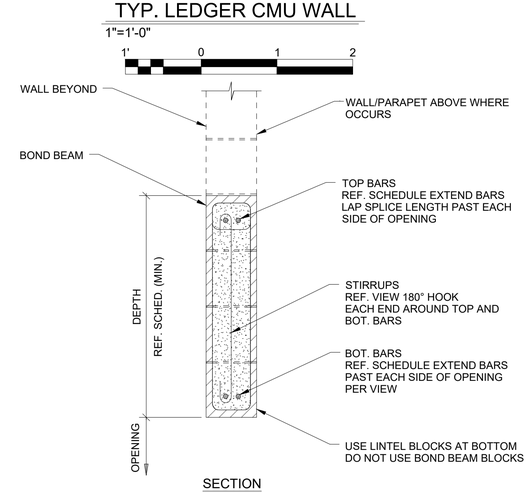
2' 0 2 4



SECTION

TYP. LEDGER CMU WALL

1"=1'-0"



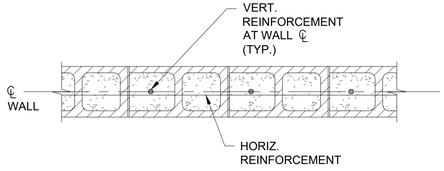
SECTION

TYP. CMU LINTEL BEAM

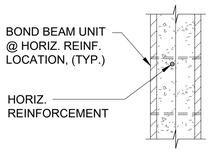
1"=1'-0"

CMU LINTEL BEAM SCHEDULE					EXTEND HORIZONTAL BAR EACH SIDE OF OPENING
MARK	DEPTH	TOP BARS	BOT. BARS	STIRRUPS	
L1	16"	(1) #4	(1) #4	NOT REQ.	30"
L2	16"	(1) #5	(1) #5	#4 @ 24" O.C.	30"
L3	8"	NOT REQ.	(2) #5	NOT REQ.	RUN FULL LENGTH OF WALL ABOVE
L4	16"	(1) #5	(1) #5	#4 @ 24" O.C.	30" (SEE NOTE 1)
L5	24"	(1) #5	(2) #5	#4 @ 24" O.C.	30"

NOTES:
1. WHERE EXTENSION LENGTH CANNOT BE MET, HOOK 8" BAR AT END.



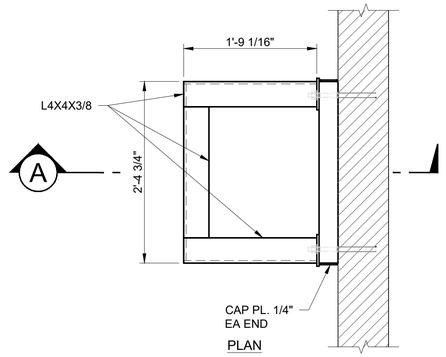
PLAN



SECTION

TYP. 6" & 8" CMU WALL DETAIL

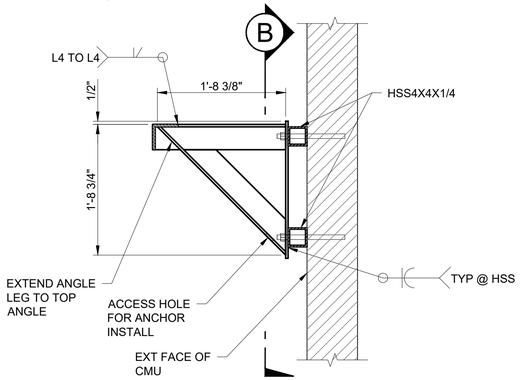
1"=1'-0"



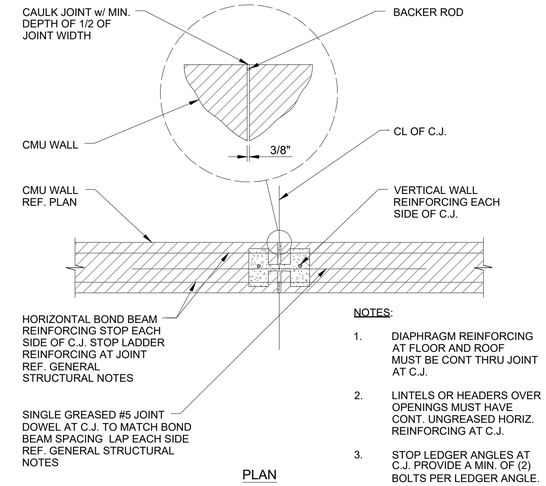
PLAN

HVAC FRAME ATTACHMENT DETAIL

1"=1'-0"



SECTION A
1"= 1'-0"

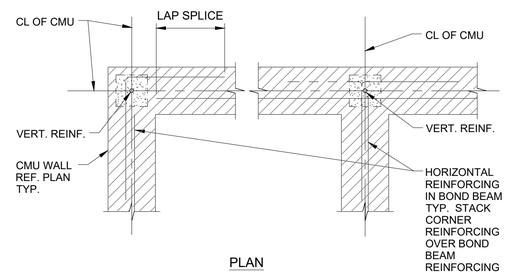


NOTES:
1. DIAPHRAGM REINFORCING AT FLOOR AND ROOF MUST BE CONT THRU JOINT AT C.J.
2. LINTELS OR HEADERS OVER OPENINGS MUST HAVE CONT. UNGREASED HORIZ. REINFORCING AT C.J.
3. STOP LEDGER ANGLES AT C.J. PROVIDE A MIN. OF (2) BOLTS PER LEDGER ANGLE.

PLAN

TYP. CONTROL JOINT DETAIL

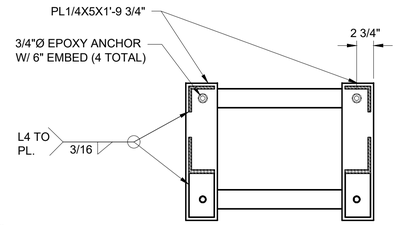
1"=1'-0"



PLAN

TYP. CMU WALL CORNER PLAN DETAILS

1"=1'-0"



SECTION B
1"= 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
90165PE
OREGON
SEPT 10, 2019
NEIL M. SCHWEITZER
EXPIRES: 06/30/2026

No.	Revision	Date	Drawn	Checked
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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
NMS	CRS	JGE	5002-001	10-17-25	350-04

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - TYPICAL DETAILS
CMU DETAILS

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22x34 = FULL SCALE
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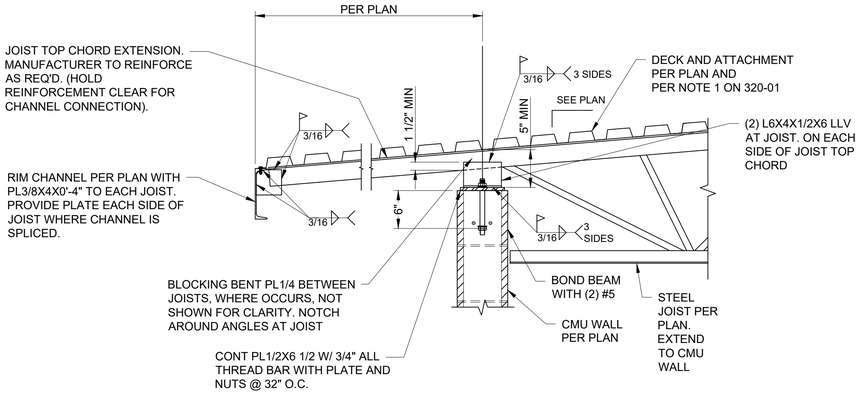
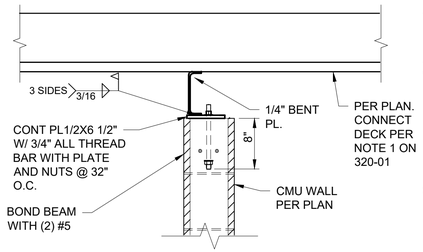


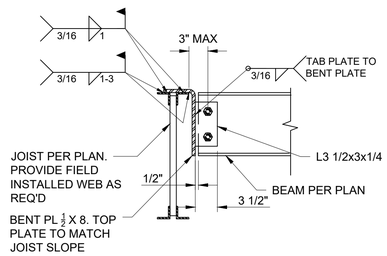
STEEL JOIST PERP TO CMU WALL CONNECTION (E 320-01)

1"=1'-0"



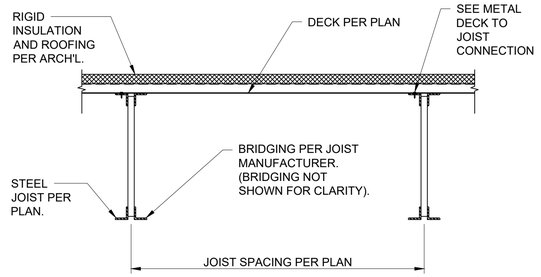
STEEL JOIST PARALLEL TO CMU WALL CONNECTION (F 320-01)

1"=1'-0"



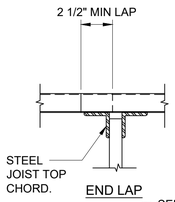
SAFETY ANCHOR POST BEAM TO JOIST CONNECTION

1"=1'-0"

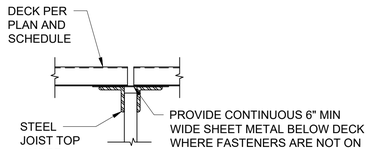


SECTION AT JOIST (G 320-01)

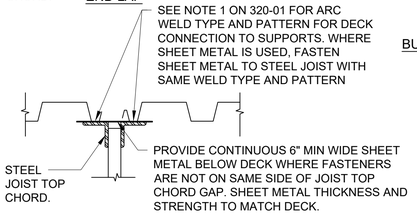
1"=1'-0"



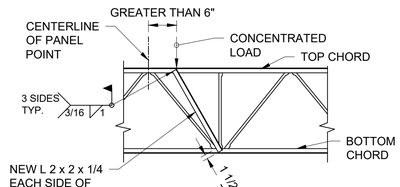
END LAP



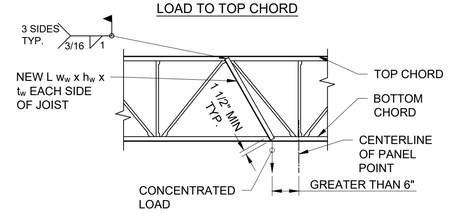
BUTT JOINT AT JOIST



DECK SIDE JOINT AT JOIST



LOAD TO TOP CHORD



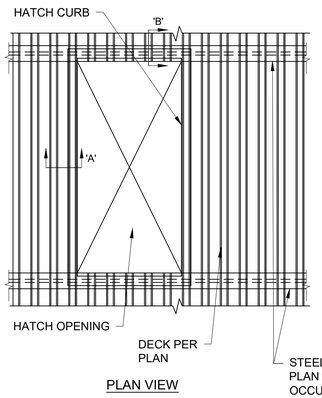
LOAD TO BOTTOM CHORD

FIELD INSTALLED WEBS AT CONCENTRATED LOAD

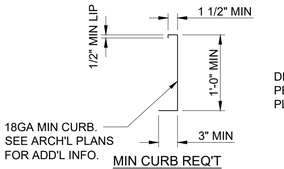
1"=1'-0"

NOTES:
1. PROVIDE FIELD INSTALLED WEBS FOR CONCENTRATED LOADS GREATER THAN 250LBS THAT ARE LOCATED GREATER THAN DISTANCE SHOWN FROM A PANEL POINT.
2. JOIST MANUFACTURER TO DESIGN TOP AND BOTTOM CHORD FOR A 250LB BEND-CHECK LOAD.
3. NOTIFY THE ENGINEER IF THE EXISTING WEB CONFIGURATION CONFLICTS WITH THE FIELD INSTALLED WEB MEMBERS SHOWN.

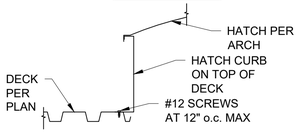
NOTES:
1. INSULATION AND CANT STRIPS NOT SHOWN FOR CLARITY. SEE ARCH'L PLANS FOR ADD'L INFO.
2. CURB SHOWN IN THIS DETAIL IS THE MINIMUM REQ'D FOR SKYLIGHT WITHOUT STEEL SUPPORT BELOW DECK. SEE ARCH'L FOR ADD'L REQ'TS.

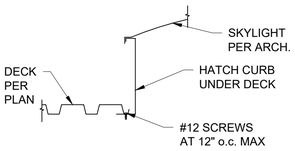


PLAN VIEW

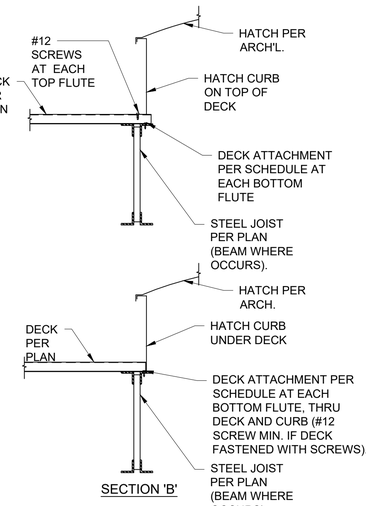


MIN CURB REQ'T





SECTION 'A'



SECTION 'B'

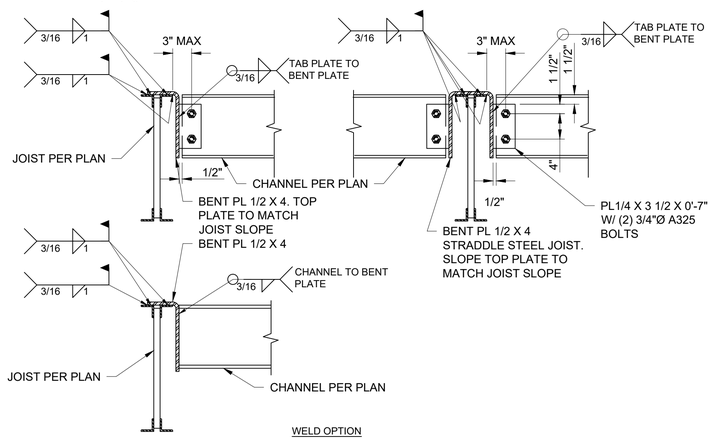
HATCH OPENING (1 320-02)

1"=1'-0"

1' 0 1 2

METAL DECK TO JOIST CONNECTION

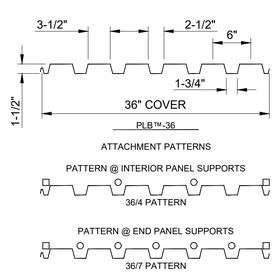
1"=1'-0"



WELD OPTION

SMALL BEAM TO JOIST CONNECTION

1"=1'-0"



○= ARC SPOT WELD AT INTERIOR BOTTOM FLUTES OR MECHANICAL FASTENER
□= ARC SEAM WELD ADJACENT TO SIDELAP OR MECHANICAL FASTENER

METAL DECK

1"=1'-0"

REGISTERED PROFESSIONAL ENGINEER
90165PE
OREGON
SEPT 10, 2019
NEIL M. SCHWEITZER
EXPIRES: 06/30/2026

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	JGE

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

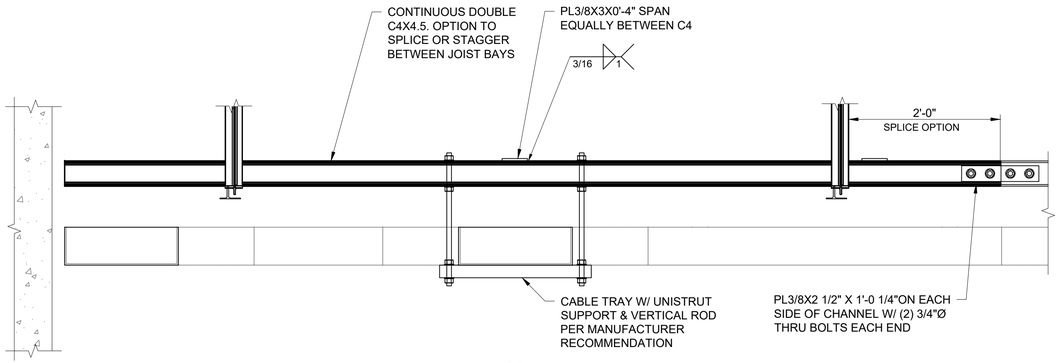
STRUCTURAL - TYPICAL DETAILS
STEEL DECK, JOIST, & FRAMING DETAILS (1)

Kleinschmidt
888-224-5942
KleinschmidtGroup.com

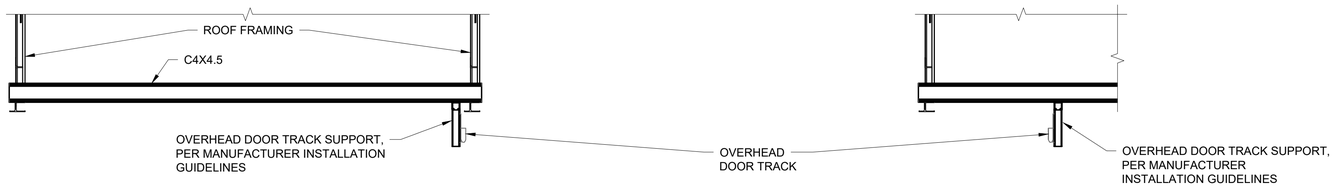
Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
NMS	CRS	JGE	5002-001	10-17-25	350-05

Know what's below. Call before you dig.

22x34 = FULL SCALE
3"
2"
1"
0

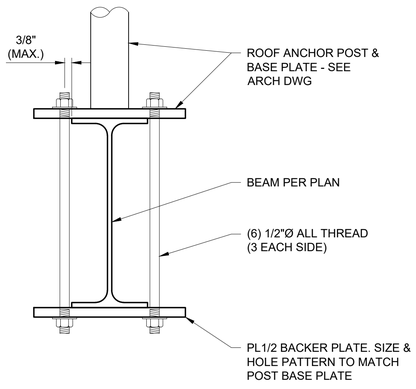


SECTION C 320-01
3/4"=1'-0"



SECTION D 320-01
3/4"=1'-0"

1' 0 1 2 3



ROOF ANCHOR TO BEAM DETAIL
3"=1'-0"

4" 0 4 8

Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER
90165PE
OREGON
SEPT 10, 2019
NEIL M. SCHWEITZER
EXPIRES: 06/30/2026

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	JGE

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NMS	CRS	JGE

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

STRUCTURAL - TYPICAL DETAILS
STEEL DECK, JOIST, & FRAMING DETAILS (2)

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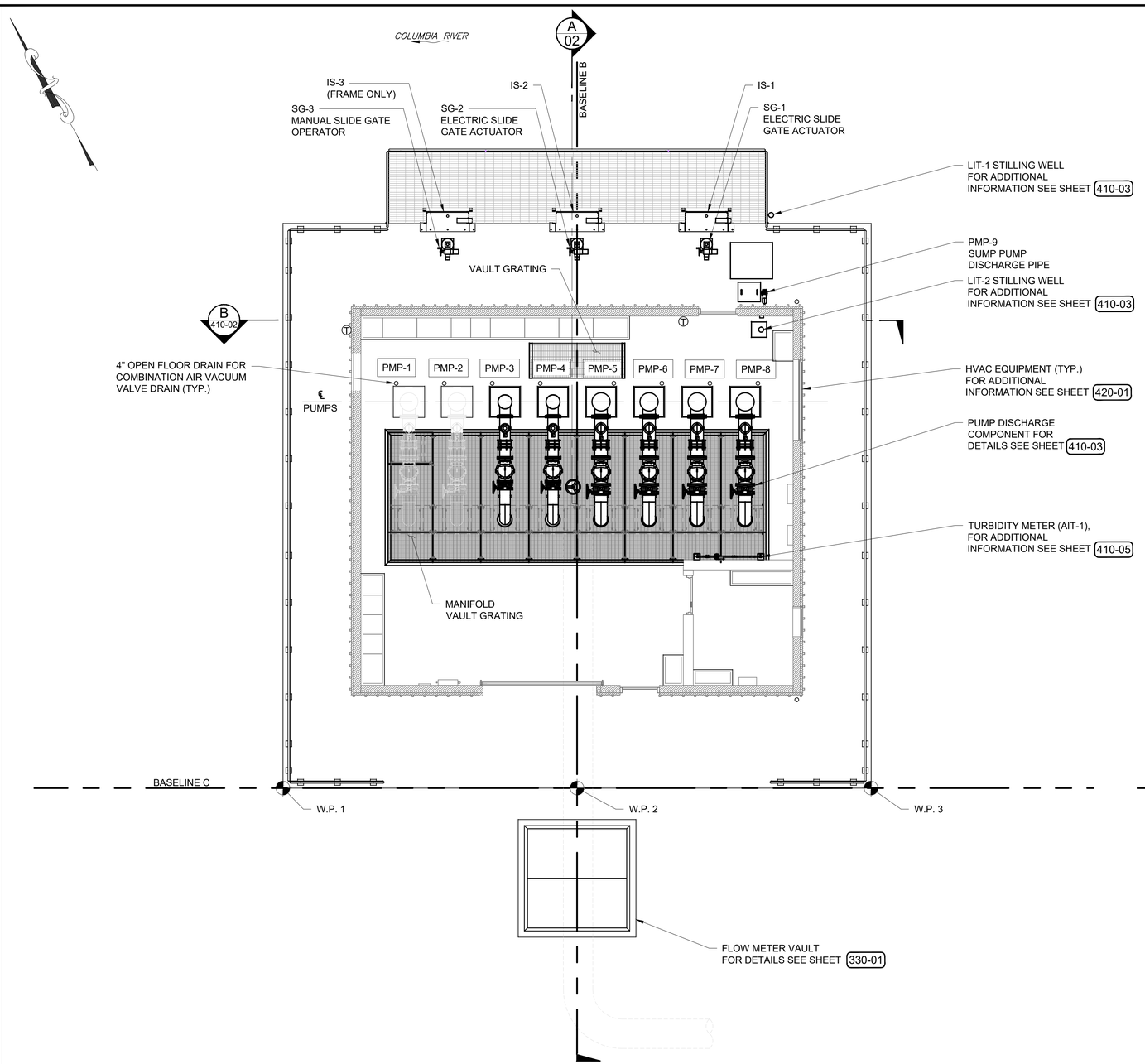
Project No.	Date Revised	Drawing No.
5002-001	10-17-25	350-06

PRINTED: Oct. 21, 2025 - 10:23 AM K:\Jobs\5002\001\Drawings\CAD\WORKING DRAWINGS\Joint Pump And Pipeline Project Design Set\5002001 350-06.dwg

22x34 = FULL SCALE

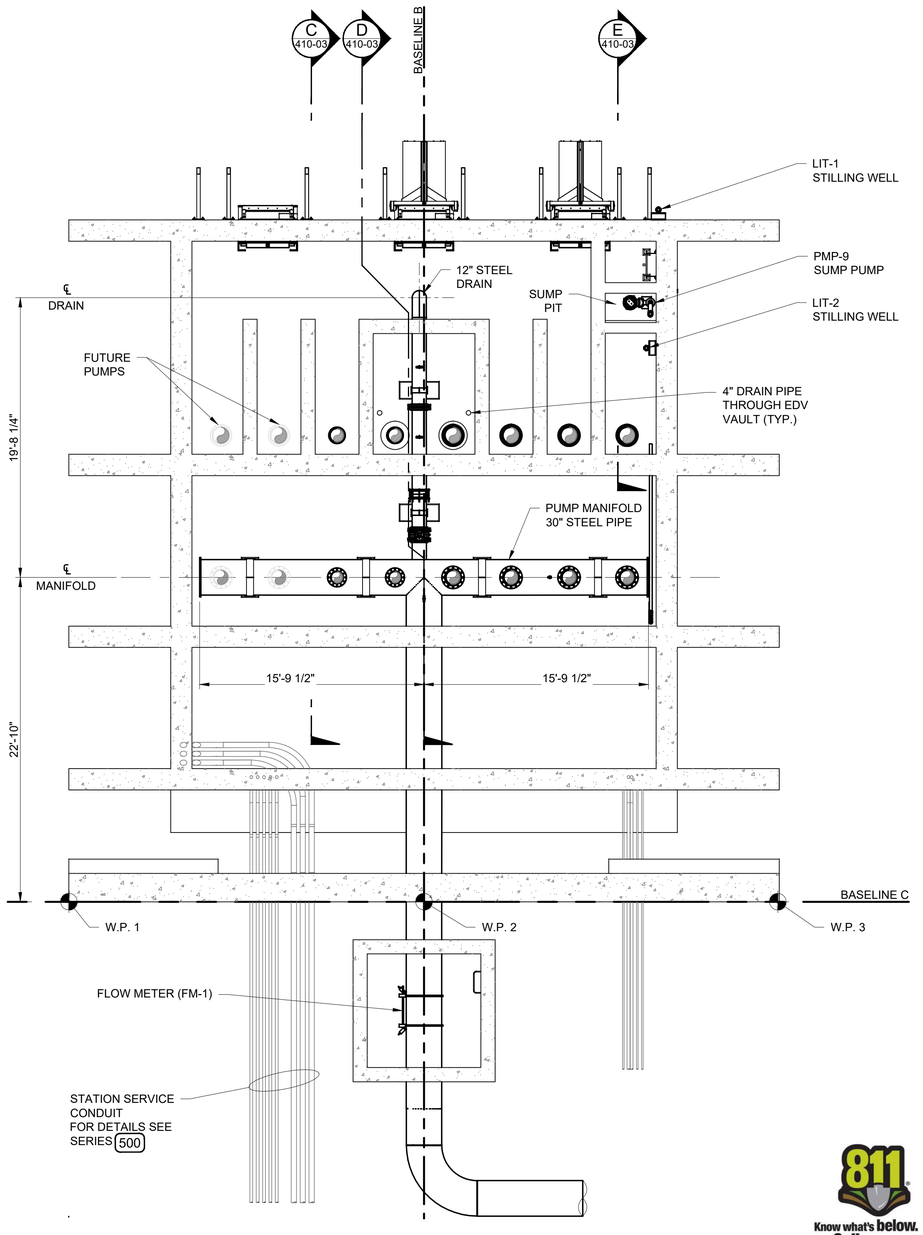
3" 2" 1" 0



PUMP STATION PLAN OF OPERATING DECK

3/16"=1'-0"

5' 0 5 10



PUMP STATION PLAN @ EL. 357.0'

3/16"=1'-0"

811 Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER
100687PE
OREGON
JULY 12, 2022
QUINN CULBERTSON
2025.10.10 16:07:05-04'00'

EXPIRES: 12/31/2027

No.	Revision	Date	Drawn	Checked
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QMC	CRS	CWC

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

MECHANICAL - GENERAL ARRANGEMENT PLANS

Kleinschmidt

888-224-5942
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Project No.	Date Revised	Drawing No.
5002-001	10-17-25	400-01

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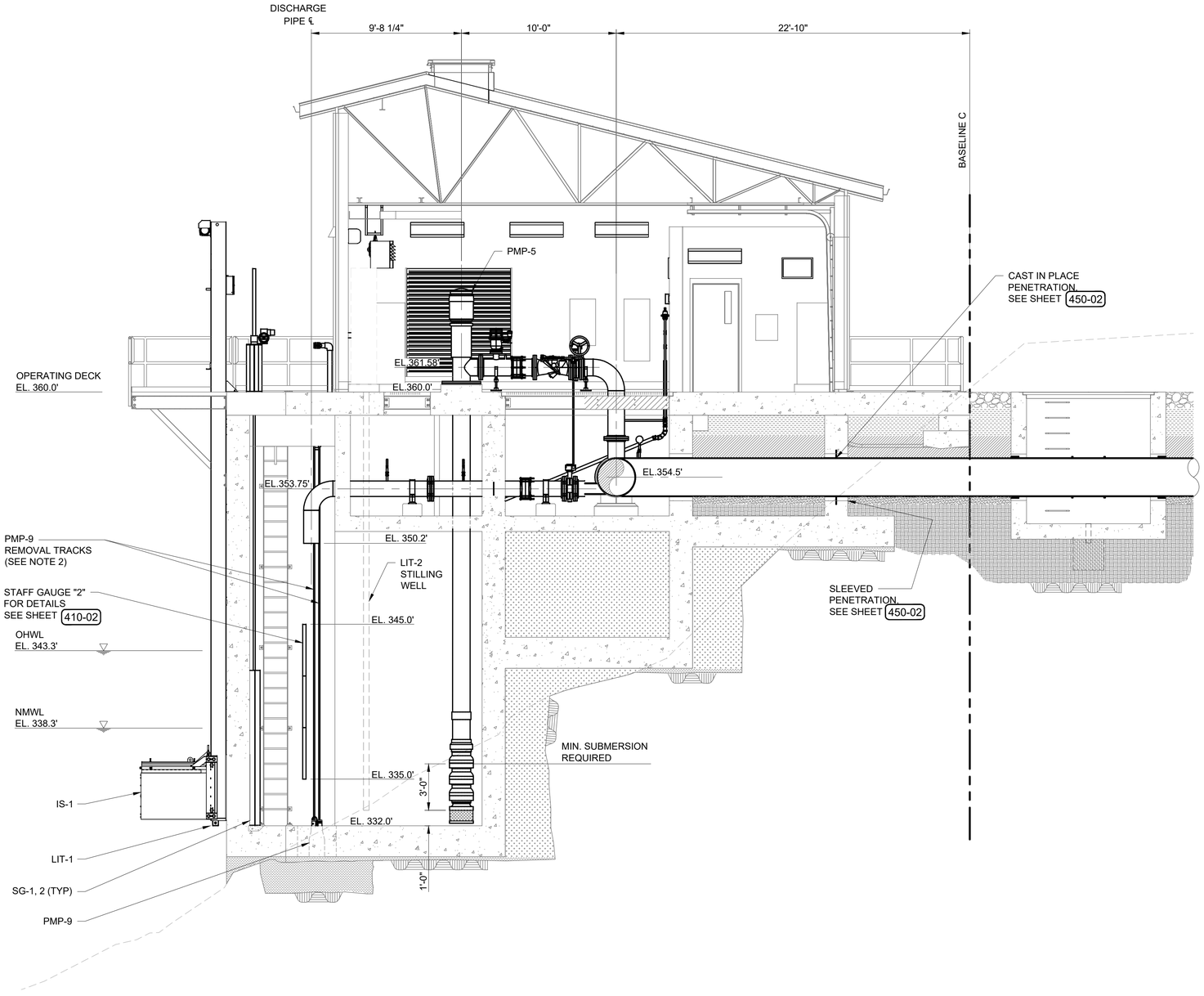

SECTION A 01
1/4"=1'-0"

4' 0 4 8

NOTES:
1. CONTRACTOR TO PROVIDE SUMP PUMP AUTO COUPLING ASSEMBLY WITH GUIDE RAILS FOR PUMP REMOVAL. PROVIDE GUIDE RAIL SUPPORTS EVERY 10', OR AS REQUIRED PER MANUFACTURER RECOMMENDATIONS.

REGISTERED PROFESSIONAL ENGINEER
100687PE
OREGON
JULY 12, 2022
QUINN CULBERTSON
1005.10.10 16:07:05-04'00'
EXPIRES: 12/31/2027

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

MECHANICAL - GENERAL ARRANGEMENT
LONGITUDINAL SECTION

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QMC	CRS	CWC	5002-001	10-17-25	400-02

3" 2" 1" 0
22x34 = FULL SCALE
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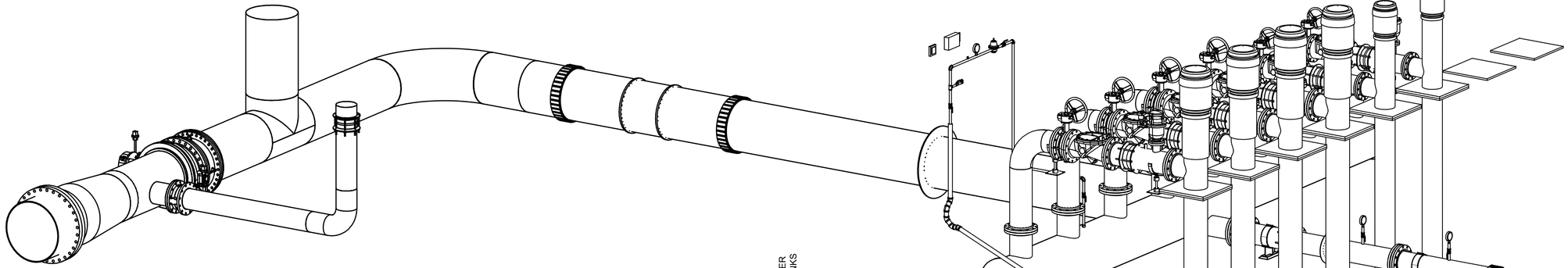
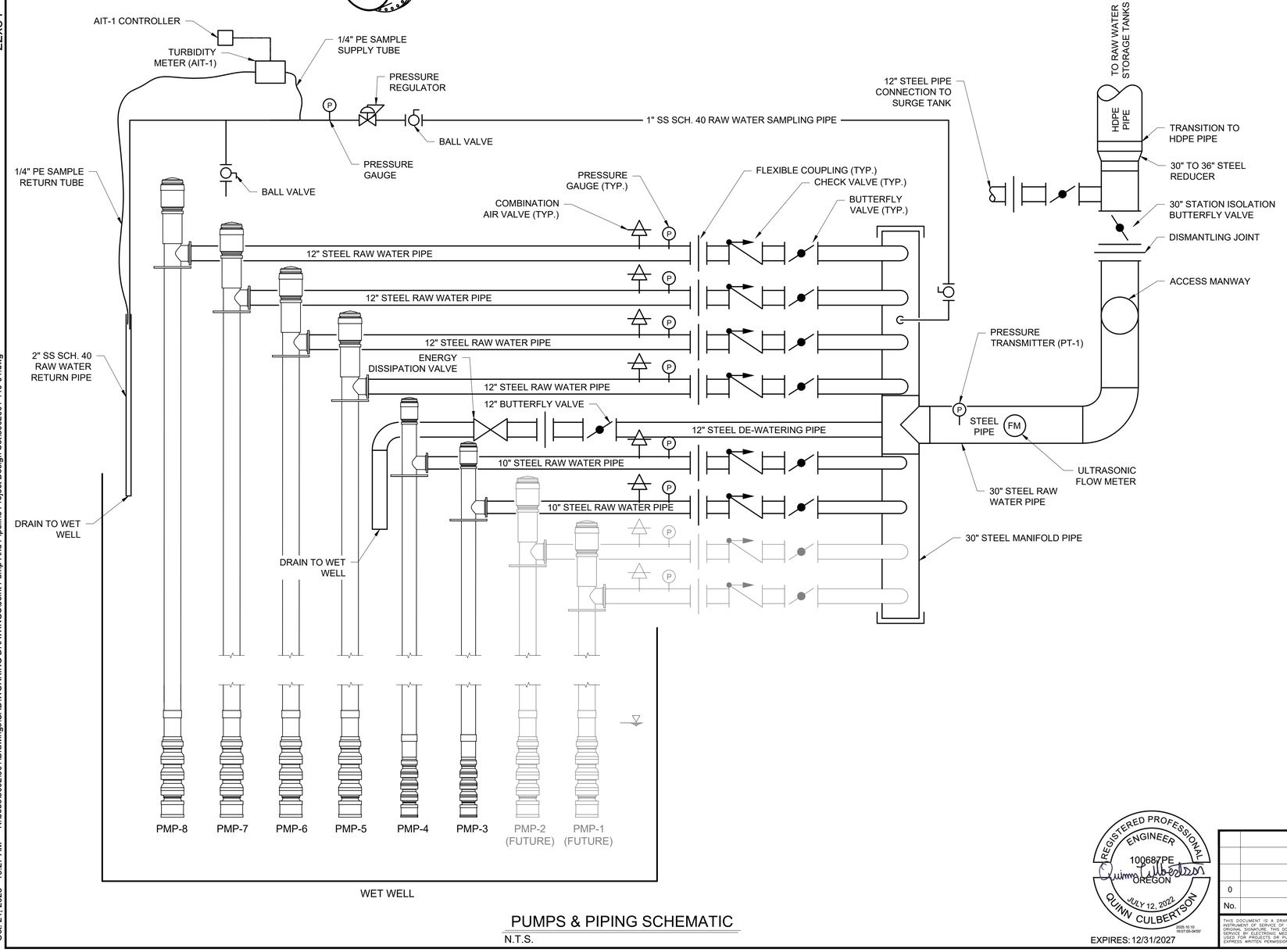
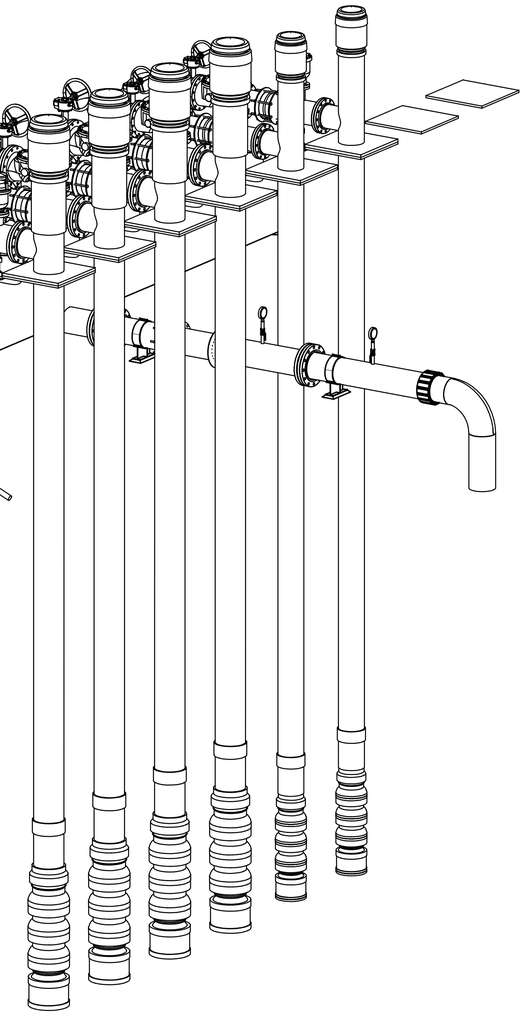




PUMPS & PIPING SCHEMATIC

N.T.S.



PUMPS & PIPING ISOMETRIC

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100687PE
OREGON
JULY 12, 2022
QUINN CULBERTSON
2026.10.10 16:07:09-04'00'

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No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

MECHANICAL - PUMPS AND PIPING SCHEMATIC

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QMC	BJL	CWC	5002-001	10-17-25	410-01

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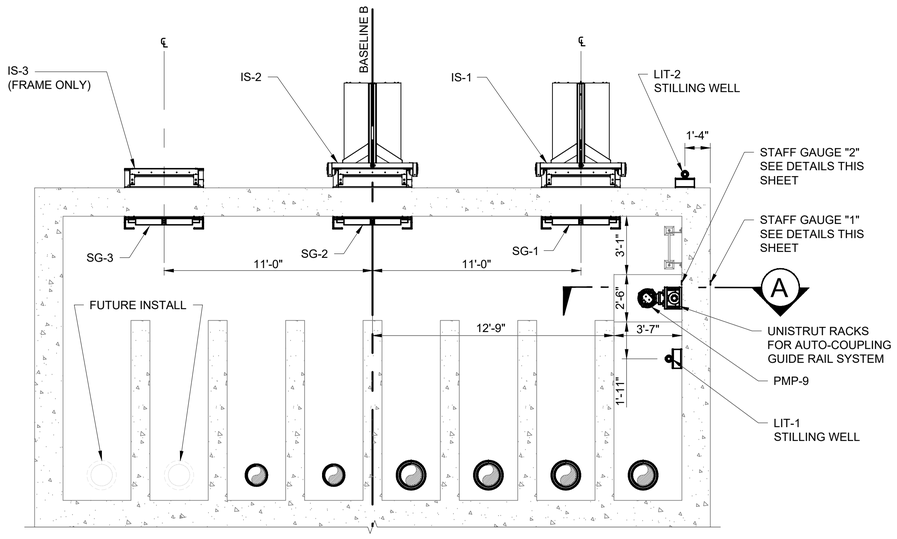
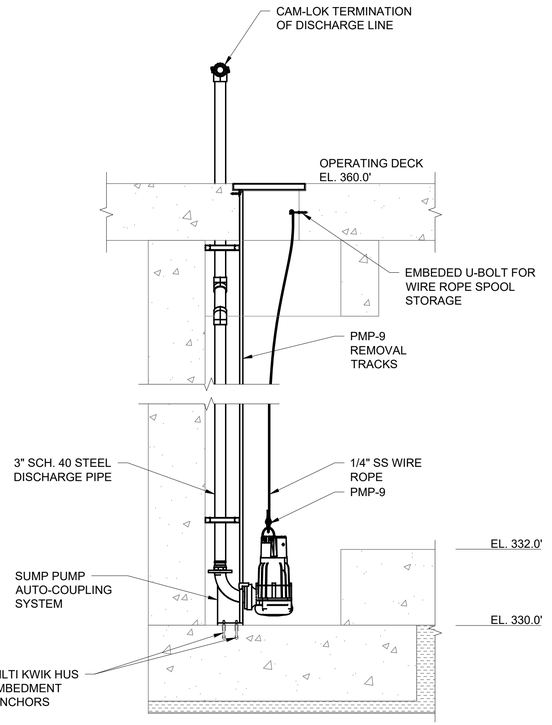


PLAN VIEW AT EL. 335.0'

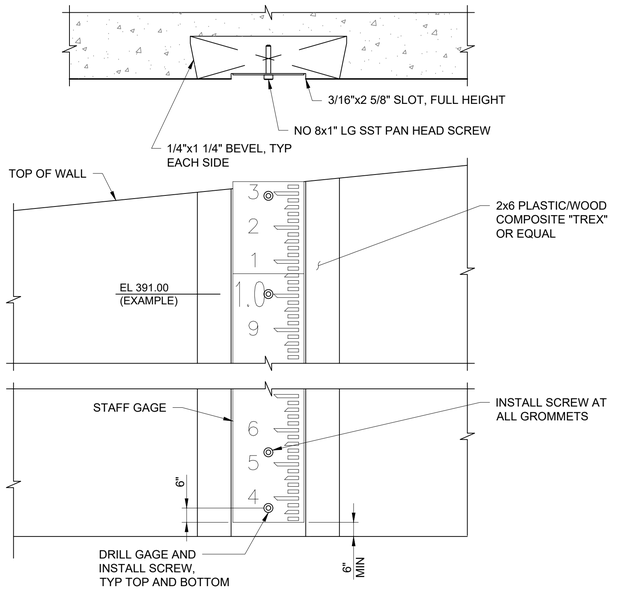
1/4"=1'-0"



SUMP SECTION A

1/2" = 1'-0"

2' 0 2 4



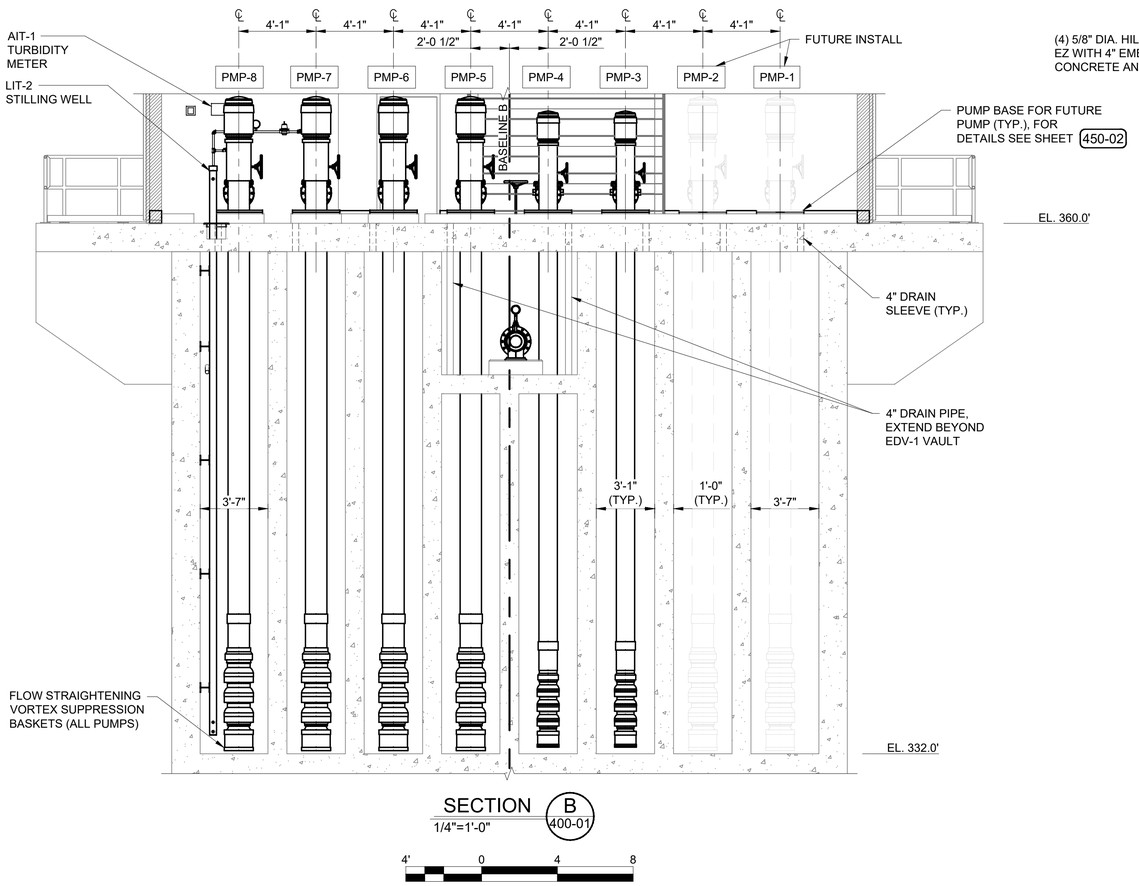
STAFF GAUGE

N.T.S.

STAFF GAUGE NOTES:

1. PROVIDE (2x) 3.33' PORCELAIN-ENAMEL STAFF GAGE, STEVENS STYLE C OR EQUAL, WITH THE ADDITION OF NUMBER PLATES TO SHOWN THE ELEVATION IN NAVD88. TOTAL STAFF GAUGE LENGTH SHOULD BE 10', CUT AS REQUIRED TO SET GAGE NUMERALS AT PROJECT ELEVATION WITHIN 0.01 FT.

STAFF GAUGE TABLE				
NO.	BOTTOM EL.	TOP EL.	LOCATION	NOTES
1	335.0'	345.0'	OUTSIDE WALL	MUST BE CLEARLY VISIBLE FROM THE SHORE
2	335.0'	345.0'	INSIDE WALL	MUST BE CLEARLY VISIBLE FROM LADDER ENTRANCE



SECTION B 400-01

1/4"=1'-0"

4' 0 4 8

Know what's below. Call before you dig.

NOTES:

1. CONTRACTOR TO PROVIDE SUMP PUMP AUTO-COUPLING SYSTEM FOR THE REMOVAL AND REINSTALLATION OF PMP-9 WITH OUT ENTERING THE WET WELL. A MOBILE HOIST MUST BE BROUGHT IN TO REMOVE AND RE-INSTALL PMP-9.

REGISTERED PROFESSIONAL ENGINEER
100687PE
OREGON
JULY 12, 2022
QUINN CULBERTSON
2025.10.10 16:07:08-04'00'

EXPIRES: 12/31/2027

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QMC	CRS	CWC

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

MECHANICAL - PUMPS AND PIPING
PUMP AREA SECTIONS

Kleinschmidt
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Project No.	Date Revised	Drawing No.
5002-001	10-17-25	410-02

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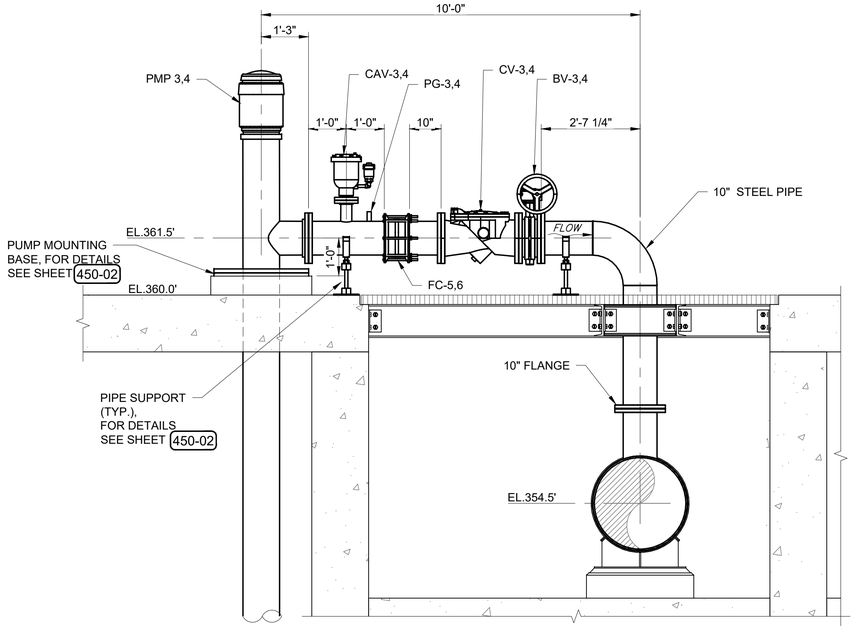
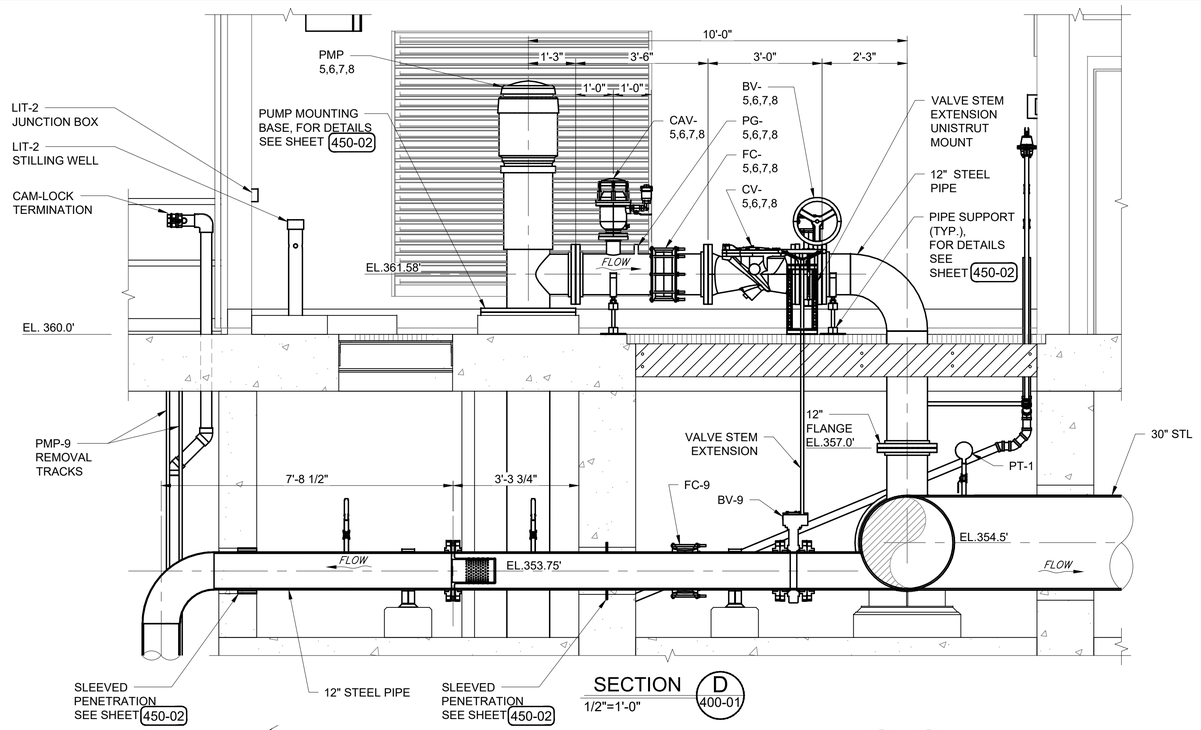
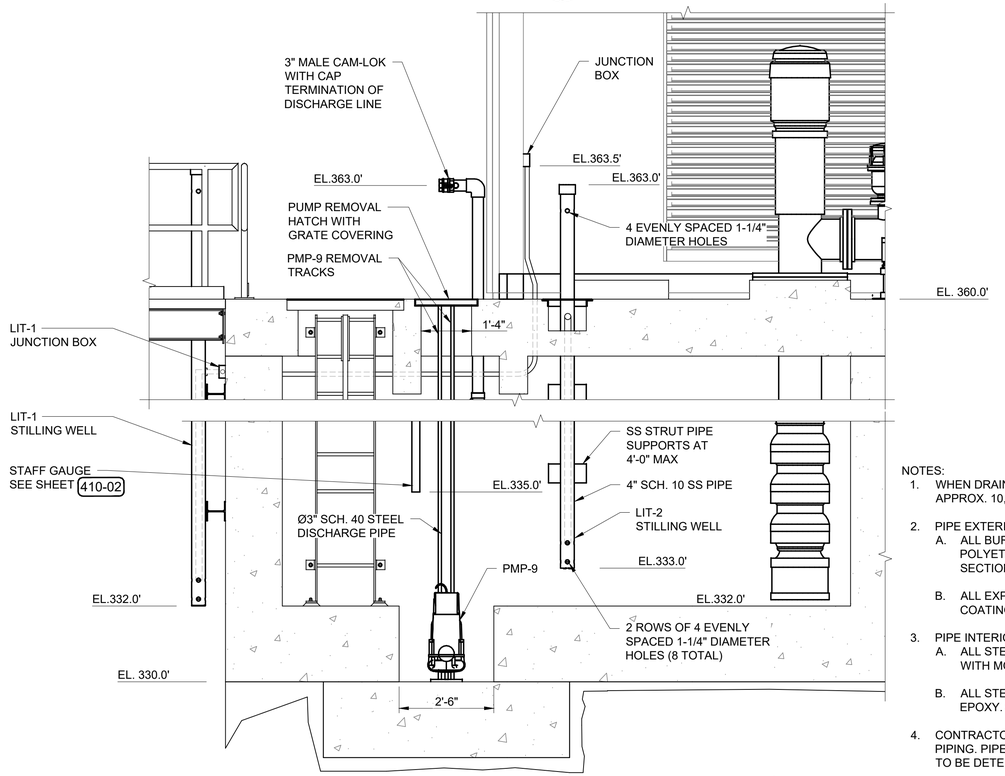
22x34 = FULL SCALE
3" 2" 1" 0"



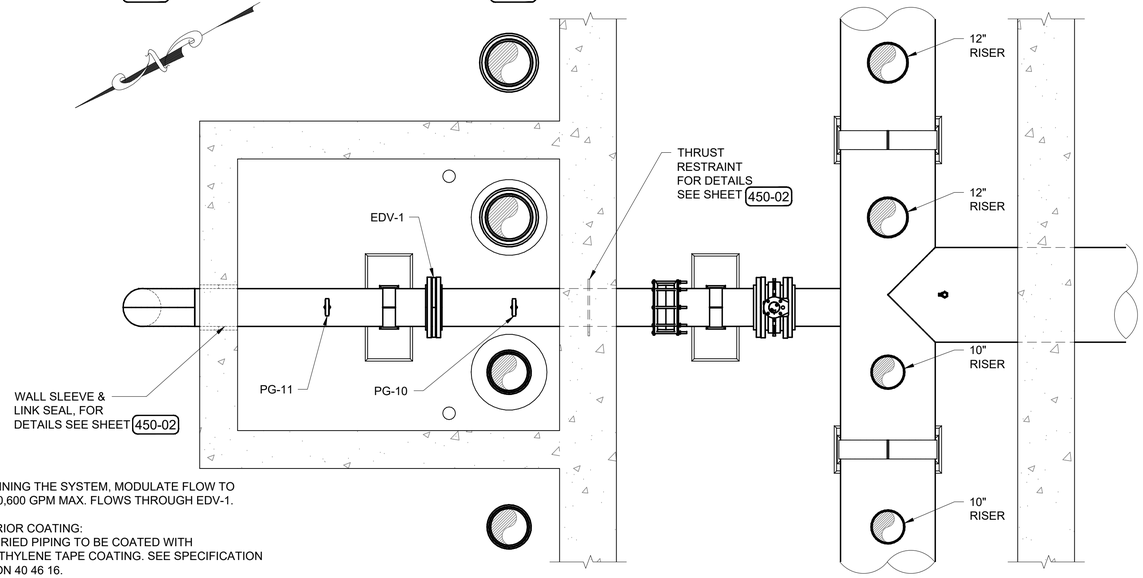
SECTION C 400-01
1/2"=1'-0"



SECTION D 400-01
1/2"=1'-0"



SUMP PUMP & STILLING WELL DETAIL SECTION E 400-01
1/2"=1'-0"



PLAN @ EL. 357.0'
1/2"=1'-0"
2' 0 2 4

NOTES:
1. WHEN DRAINING THE SYSTEM, MODULATE FLOW TO APPROX. 10,600 GPM MAX. FLOWS THROUGH EDV-1.
2. PIPE EXTERIOR COATING:
   A. ALL BURIED PIPING TO BE COATED WITH POLYETHYLENE TAPE COATING. SEE SPECIFICATION SECTION 40 46 16.
   B. ALL EXPOSED PIPING TO BE COATED WITH EPOXY COATING. SEE SPECIFICATION SECTION 09 90 00.
3. PIPE INTERIOR LINING:
   A. ALL STEEL PIPE SIZED 30" OR GREATER TO BE LINED WITH MORTAR. SEE SPECIFICATION SECTION 40 05 26.
   B. ALL STEEL PIPE SIZED BELOW 30" TO BE LINED WITH EPOXY. SEE SPECIFICATION SECTION 40 05 26.
4. CONTRACTOR TO DESIGN, FURNISH, AND INSTALL ALL PIPING. PIPE WALL THICKNESS AND BRANCH TAP DESIGNS TO BE DETERMINED BY CONTRACTOR.
5. PROVIDE PIPE SUPPORTS AND HANGERS AS NEEDED. SEE SHEET 450-02 FOR TYPICAL PIPE SUPPORT DETAILS.

REGISTERED PROFESSIONAL ENGINEER
100687PE
OREGON
JULY 12, 2022
QUINN CULBERTSON
2025.10.10 16:07:09-04'00'
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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
QMC	CRS	CWC	5002-001	10-17-25	410-03

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

MECHANICAL - PUMPS AND PIPING SECTIONS & DETAILS

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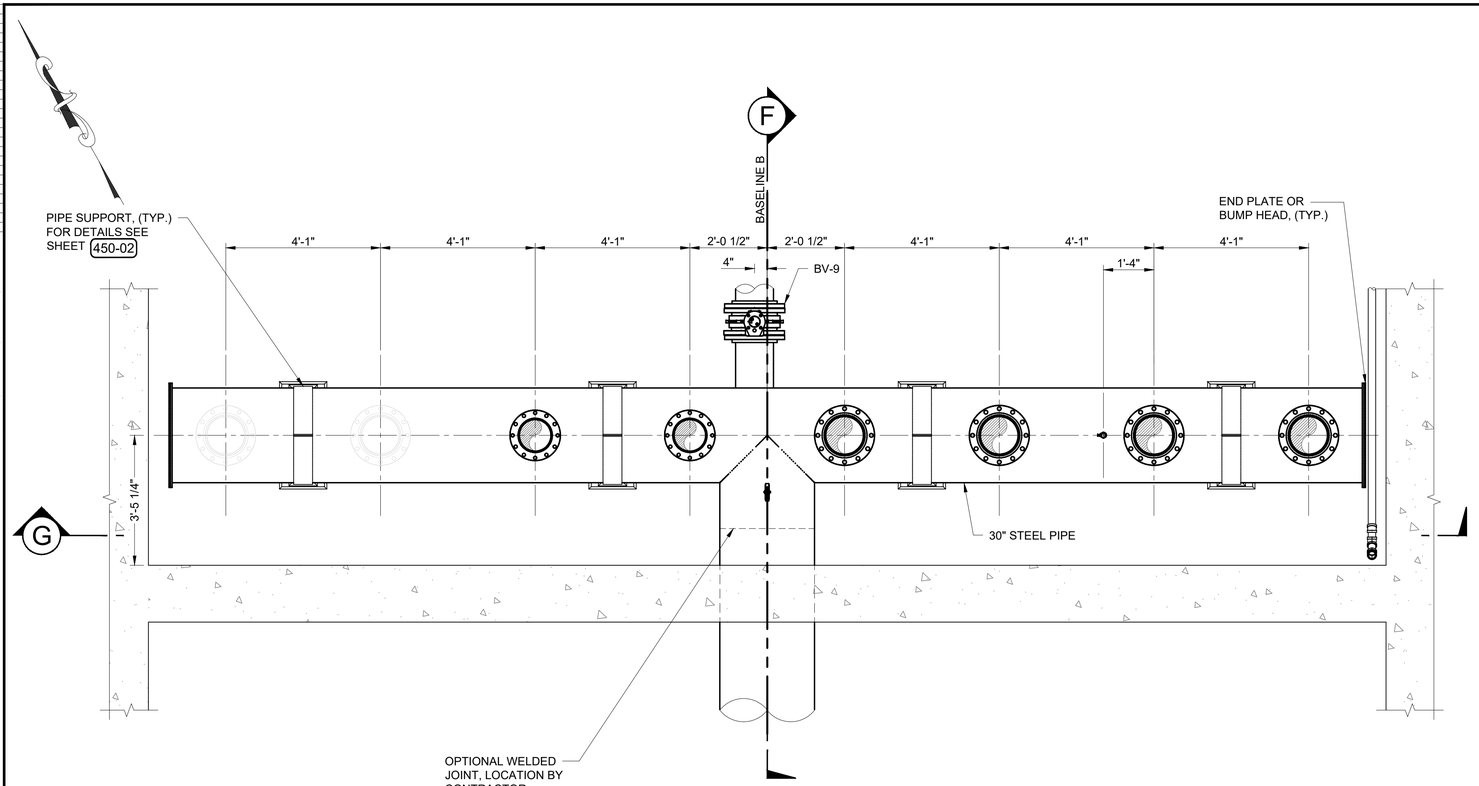
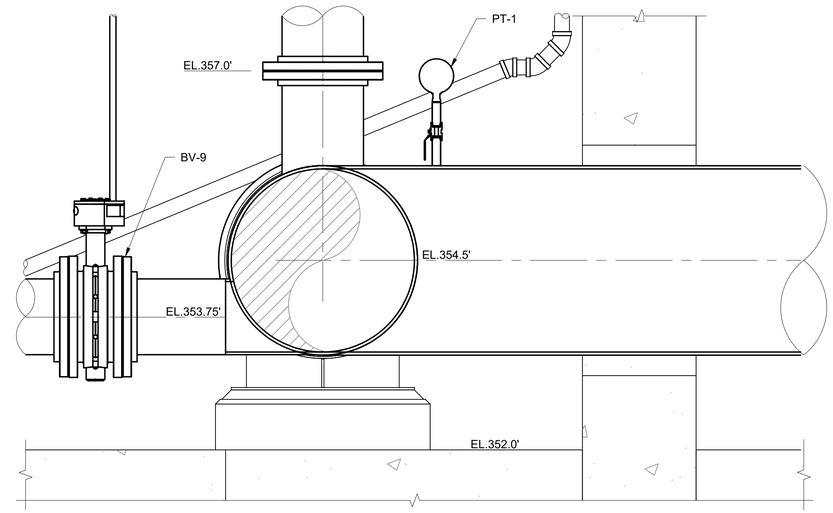
22x34 = FULL SCALE
3"
2"
1"
0

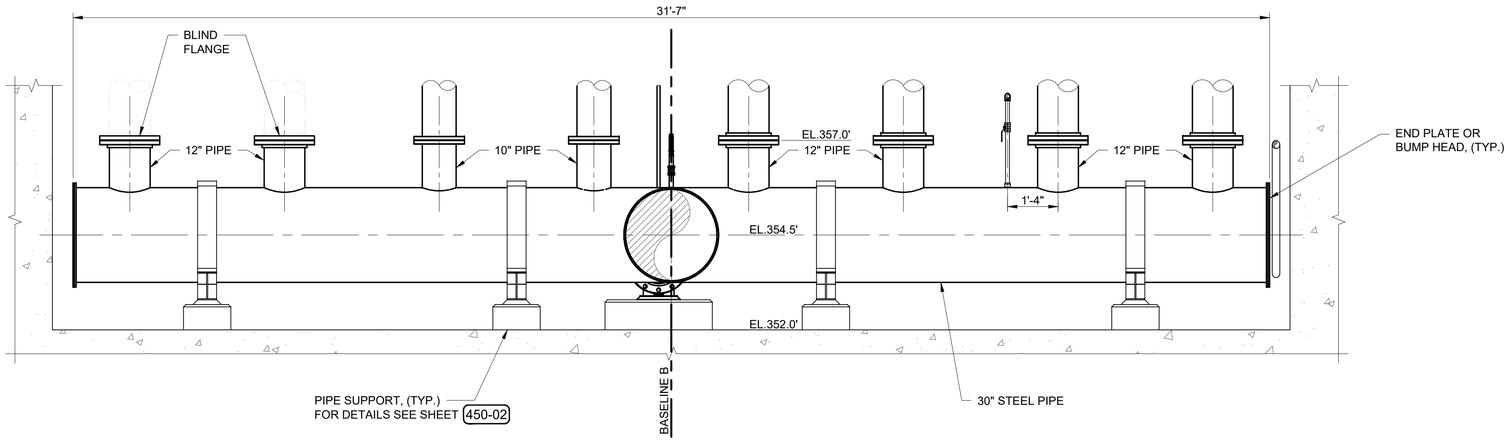


MANIFOLD PLAN
1/2"=1'-0"



SECTION F
1"=1'-0"

1' 0 1 2



MANIFOLD ELEVATION VIEW
1/2"=1'-0" G

2' 0 2 4

NOTES:
1. CONTRACTOR TO DESIGN, FURNISH, AND INSTALL ALL PIPING. PIPE WALL THICKNESS AND BRANCH TAP DESIGNS TO BE DETERMINED BY CONTRACTOR.

REGISTERED PROFESSIONAL ENGINEER
100687PE
OREGON
JULY 12, 2022
QUINN CULBERTSON
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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

MECHANICAL - PUMPS AND PIPING
MANIFOLD SECTIONS & DETAILS

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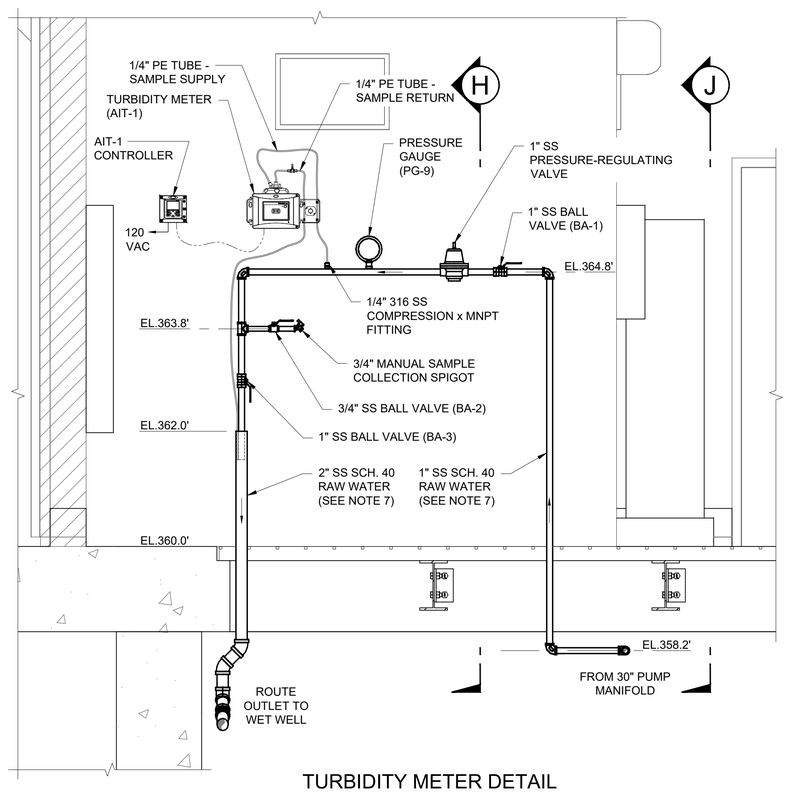
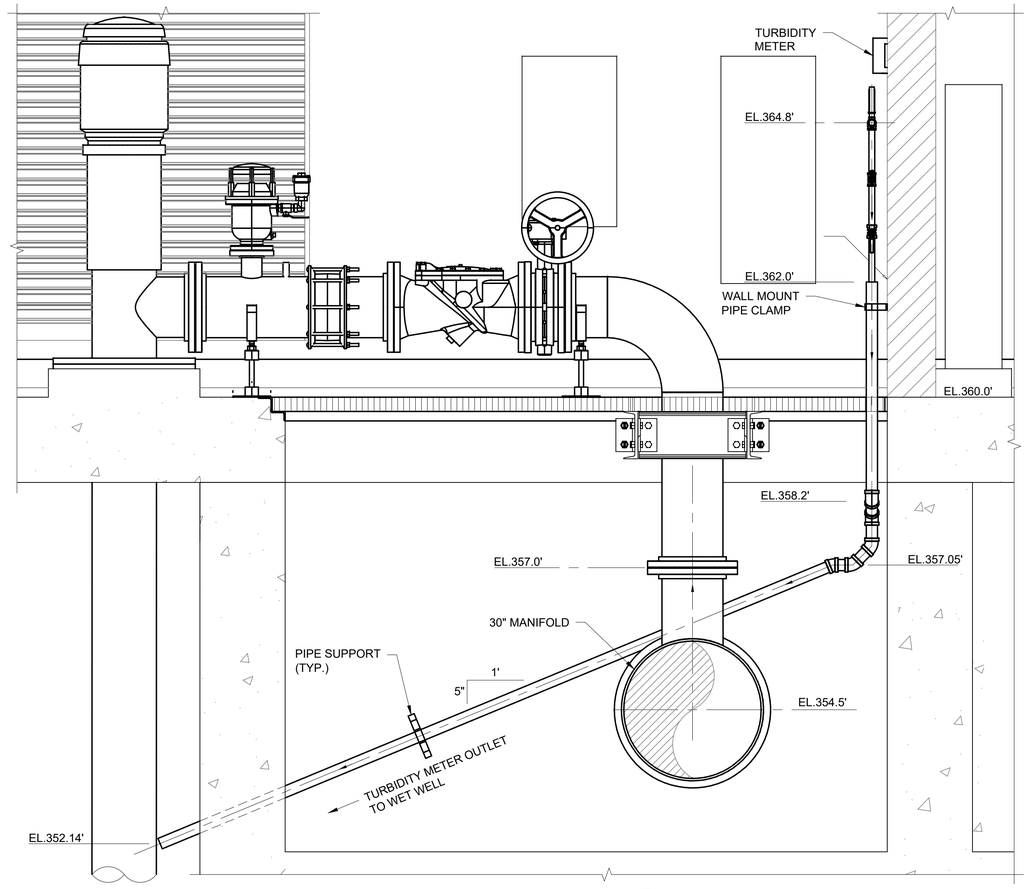


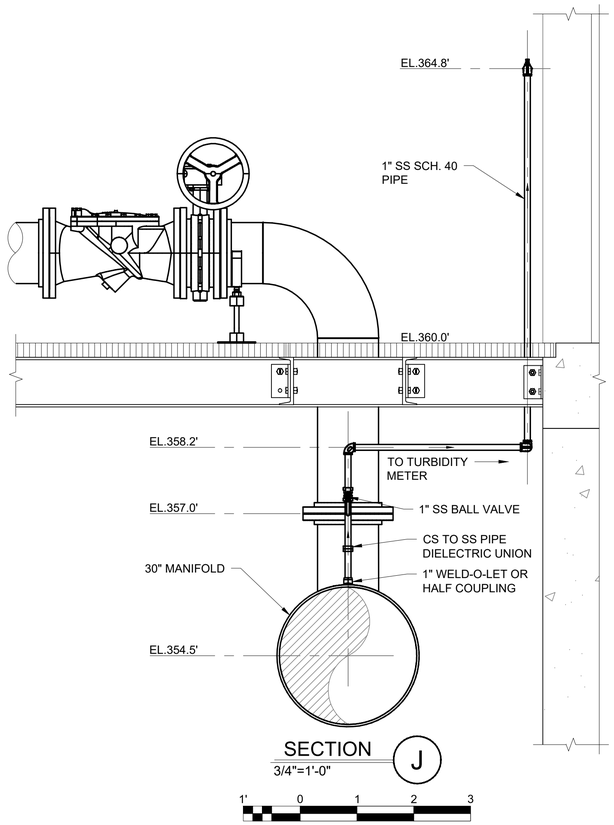
TURBIDITY METER DETAIL

3/4"=1'-0"



SECTION H

3/4"=1'-0"



SECTION J

3/4"=1'-0"

1' 0 1 2 3

NOTES:

1. TURBIDITY METER SUPPLY PRESSURE NOT TO EXCEED 87 PSI. ADJUST PRV SET POINT TO 40 PSI.
2. PRESSURE REGULATOR OUTLET PRESSURE RANGE: 20 - 60 PSI.
   A. RECOMMENDED MANUFACTURER: WATTS (OR APPROVED EQUAL).
   B. RECOMMENDED MODEL: SS-263AP (OR APPROVED EQUAL)
3. INSTALL TURBIDITY METER PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
4. SUPPORT PIPE SIZES 2" AND BELOW TO WALL VIA UNI-STRUT RACK WITH CUSHION CLAMPS.
5. ROUTE TURBIDITY METER SAMPLING WATER BACK TO WET WELL VIA 2" GRAVITY DRAIN LINE, AS SHOWN. SLOPE PIPE 5" PER FOOT MINIMUM, AND THROTTLE FLOW VIA BA-3 SUCH THAT DRAIN LINE DOES NOT OVERFLOW.
6. PROVIDE PIPE SUPPORTS AND HANGARS AS NEEDED. SEE SHEET 450-02 FOR TYPICAL PIPE SUPPORT DETAILS.
7. CONTRACTOR TO JOIN PIPE FITTINGS PER SPECIFICATION SECTION 33 05 24 - GENERAL PIPING

REGISTERED PROFESSIONAL ENGINEER
100687PE
OREGON
JULY 12, 2022
QUINN CULBERTSON
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UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

MECHANICAL - PUMPS AND PIPING
TURBIDITY METER SECTIONS & DETAILS

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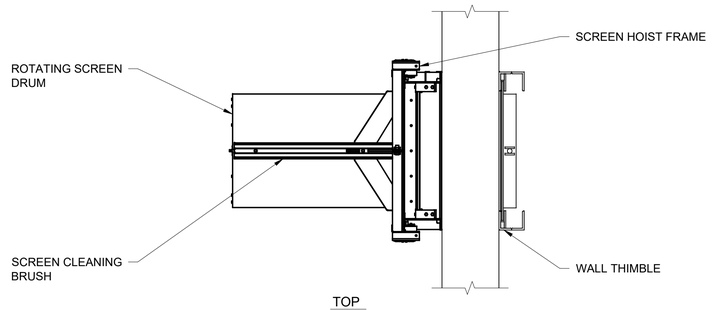
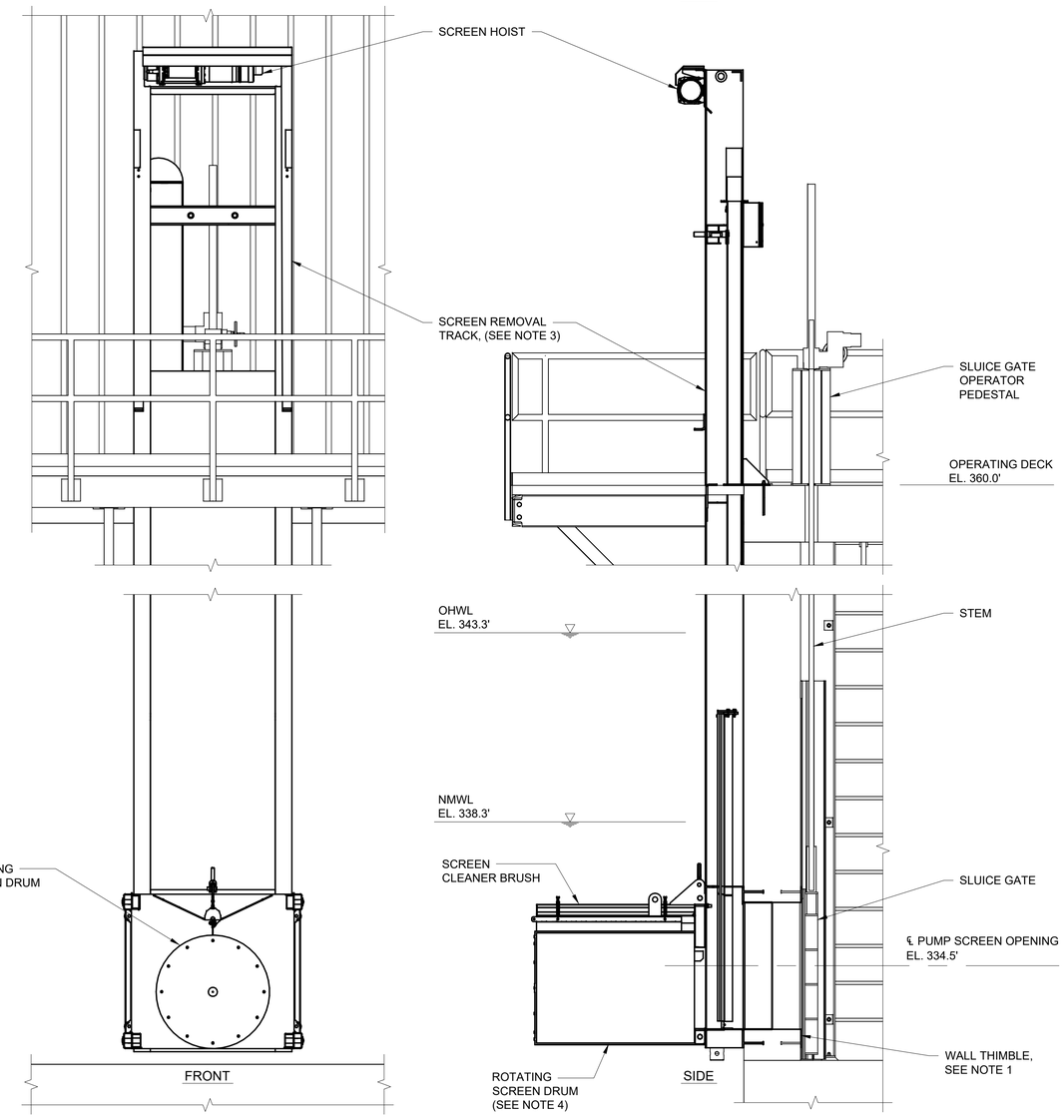
22x34 = FULL SCALE 0 1" 2" 3"

3" 2" 1" 0
22x34 = FULL SCALE



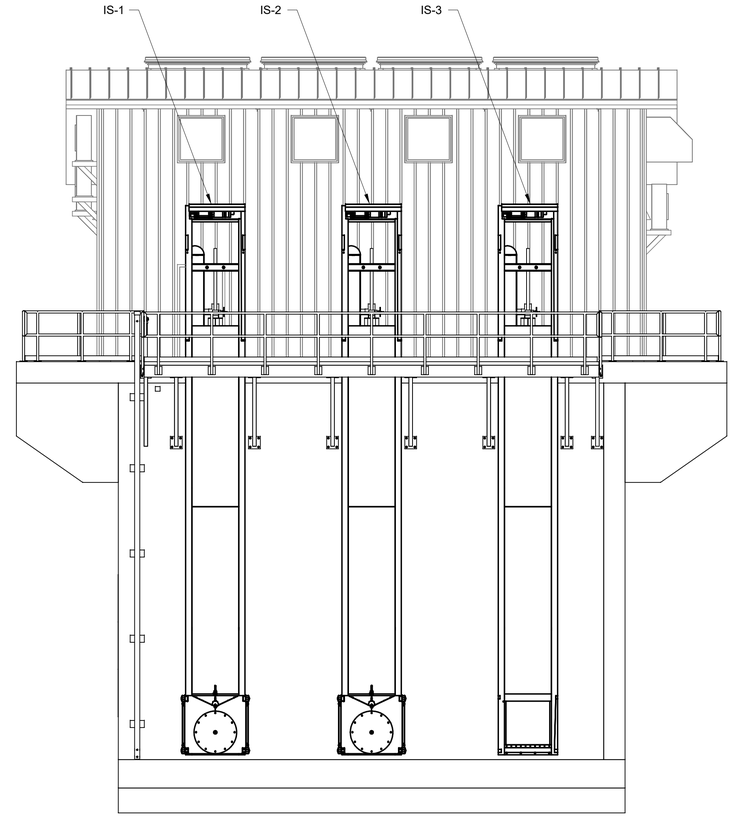
TOP



FISH SCREEN DETAILS

1/2"=1'-0"

2' 0 2 4



PUMP STATION ELEVATION

3/16"=1'-0"

5' 0 5 10

NOTES:

1. SCREEN SUPPLIER TO PROVIDE WALL THIMBLE DRILLED FOR SLUICE GATE MOUNTING.
2. ASSEMBLY TO BE STAINLESS STEEL.
3. ANCHOR OF SCREEN REMOVAL TRACK TO STRUCTURE PER MANUFACTURERS RECOMMENDATIONS.
4. REFERENCE SPECIFICATION 46 21 50 BRUSH-CLEANED RETRIEVABLE WEDGEWIRE DRUM SCREEN SYSTEM.
5. REFERENCE SPECIFICATION SECTION 35 22 26 SLUICE GATES.

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REGISTERED PROFESSIONAL ENGINEER
100687PE
OREGON
JULY 12, 2022
QUINN CULBERTSON
2025.10.15 16:07:05-04'00'
EXPIRES: 12/31/2027

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

MECHANICAL - PUMPS AND PIPING
FISH SCREEN PLAN & SECTIONS

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
QMC	CRS	CWC	5002-001	10-17-25	410-06

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22x34 = FULL SCALE

3" 2" 1" 0

W.P. 1
W.P. 2
W.P. 3
W.P. 5
W.P. 6
BASELINE A
BASELINE B
BASELINE C
8'-0"
3'-0"
8'-2"
3'-0"
12'-0"
10'-0"
6'-10 1/2"
19'-4 1/4"
10'-10 1/4"
2'-2 3/4"
2'-6"
23'-4 1/4"
25'-7 1/4"
AIR COMPRESSOR SLAB SEE 330-04
AIR COMPRESSOR ENCLOSURE
4" FLOOR DRAIN
AIR COMPRESSOR CONTROLLER (WALL MOUNTED TO INTERIOR AIR COMPRESSOR ENCLOSURE)
4" SCH. 40 SS SURGE TANK DRAIN. PROVIDE 3' MINIMUM COVER. DAY LIGHT IN SLOPE.
SURGE SYSTEM CONTROL PANEL HEAT TRACE CONTROL PANEL
4" DRAIN VALVE (BA-5)
12" FLANGED CONNECTION AND GROUND PENETRATION DIRECTLY BELOW TANK
SURGE TANK FOOTING SEE 330-04
SURGE TANK
12" STEEL SURGE TANK PIPE
12" BUTTERFLY VALVE (BV-11)
DISMANTLING JOINT (DJ-1)
30" ISOLATION VALVE (BV-10)
FLANGED HDPE/STEEL TRANSITIONS. SEE 450-02
K
C.P. 4
357
358
359
360

SURGE TANK AREA PLAN

1" = 5'

5' 0 5' 10'

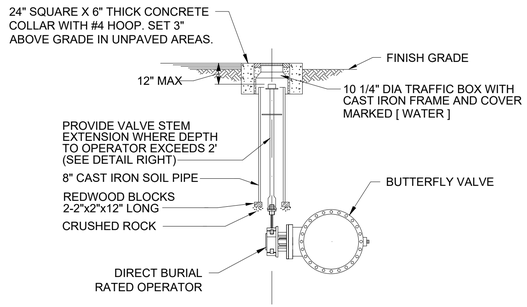
SCALE IN FEET

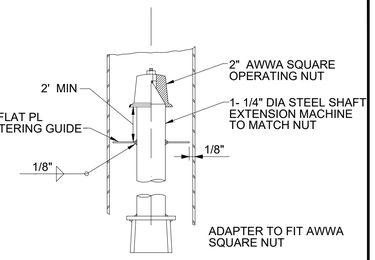
LEGEND

- NEW UNDERGROUND ELECTRIC
- FO FO NEW UNDERGROUND FIBER OPTIC
- XX XX NEW SECURITY FENCE
- NEW VEHICULAR GUARDRAIL
- EASEMENT
- PROPERTY LINE
- WATERLINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING PIPELINE

NOTES:

1. INSTALL SURGE TANK AND COMPRESSOR PER MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE AND FIELD ROUTE AIR COMPRESSOR AND SURGE TANK DRAIN CONNECTION, COMPLETE WITH ISOLATION BALL VALVE.
3. COORDINATE TANK AND AIR COMPRESSOR FOUNDATION DIMENSIONS AND LOCATIONS WITH EQUIPMENT PROVIDED.
4. SEE SPECIFICATION SECTION 43 42 21 FOR ADDITIONAL INFORMATION.
5. PROVIDE AIR PIPING PER SPECIFICATION SECTION 43 42 21.

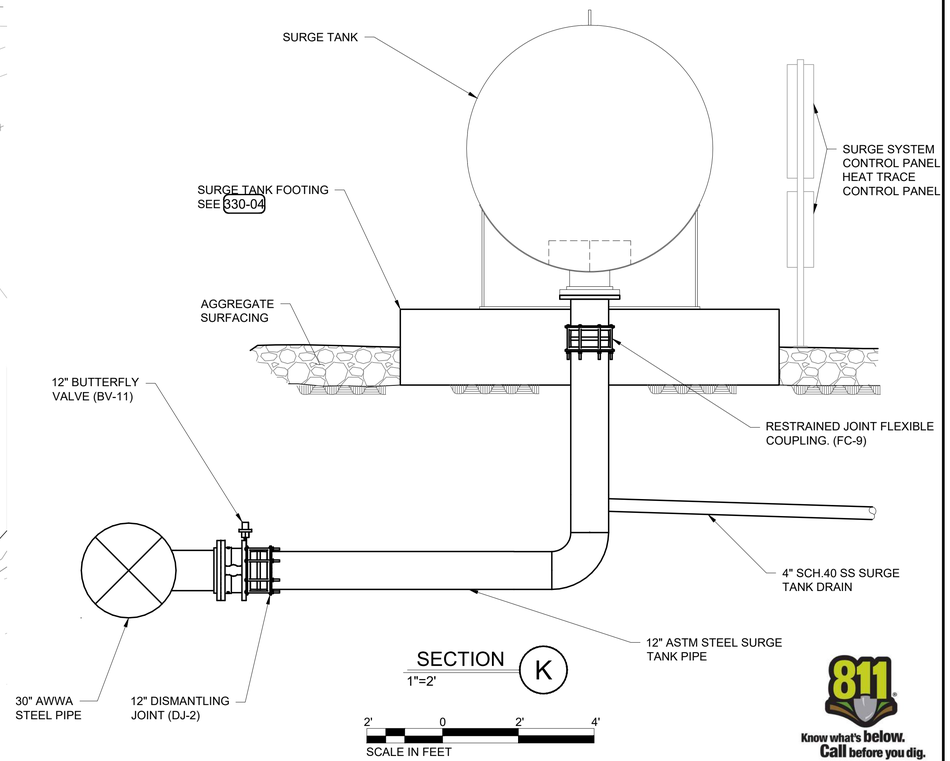




NOTES:
PROVIDE PROTECTIVE COATING TO EXTERIOR SURFACE OF VALVE BODY IN ACCORDANCE WITH SPECS.

BURIED VALVE INSTALLATION

NTS



SECTION K

1"=2'

2' 0 2' 4'

SCALE IN FEET

Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER
100687PE
OREGON
JULY 12, 2022
QUINN CULBERTSON
2026.05.20 13:12:06-04'00'

EXPIRES: 12/31/2027

No.	Revision	Date	Drawn	Checked
1	ISSUED FOR BID	05-20-26	BJL	CWC
0	ISSUED FOR BID	10-17-25	BJL	CWC

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

MECHANICAL - PUMPS AND PIPING
SURGE TANK AND AIR COMPRESSOR SYSTEM

Kleinschmidt
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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
QMC	BJL	CWC	5002-001	05-20-26	410-07

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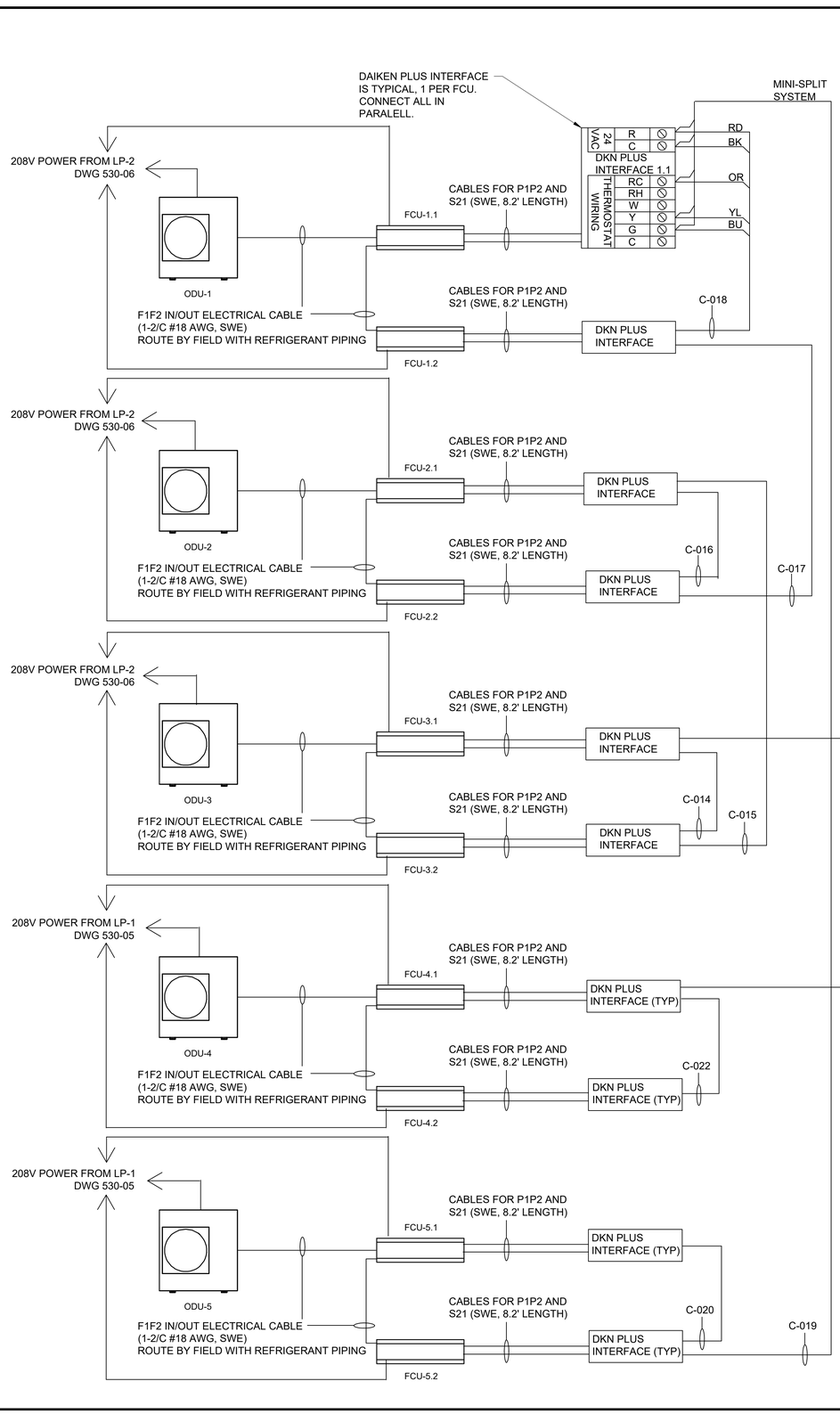

PUMP STATION CLIMATE CONTROL SOO:

1. GENERAL

A. THE INTENT OF THE CLIMATE CONTROL SCHEME IS TO MAINTAIN THE PUMP STATION INTERNAL TEMPERATURE BETWEEN 45°F AND 90°F DURING ALL TIMES OF THE YEAR. THIS IS TO BE ACHIEVED THROUGH THE INTERLOCKING AND CONTROL OF THREE MECHANICAL SYSTEMS: ECONOMIZER EXHAUST FAN, MINI-SPLIT SYSTEMS, AND ELECTRICAL UNIT HEATERS.

2. SCHEDULE

A. 24/7 CONTINUOUS OPERATION

3. OPERATION

A. PRIMARY COOLING SOURCE: BUILDING ECONOMIZER EXHAUST FAN
B. ECONOMIZER TO SOURCE FREE COOLING FROM AMBIENT OUTSIDE AIR FOR AS LONG AS POSSIBLE WHILE STILL MEETING THE INTERNAL TEMPERATURE SET POINT RANGE OF 45°F TO 85°F.
C. ECONOMIZER TO BE CONTROLLED VIA OUTDOOR AIR TEMPERATURE SENSOR.
   i. WHEN ONE OR MORE PUMPS ARE RUNNING:
      a. ECONOMIZER FAN TO RUN WHEN OUTDOOR AIR TEMPERATURE IS BETWEEN 41°F AND 73°F. (ADJ.)
      b. WHEN OUTDOOR TEMPERATURE BECOMES LESS THAN 41°F (ADJ.), THE EXHAUST FAN SHALL TURN OFF AND THE ELECTRIC UNIT HEATERS SHALL BE PERMITTED TO TURN ON.
      c. WHEN THE OUTDOOR TEMPERATURE REACHES 74°F (ADJ.) OR MORE, THE EXHAUST FAN SHALL TURN OFF AND THE MINI-SPLIT SYSTEMS SHALL BE PERMITTED TO TURN ON.
   ii. WHEN NO PUMPS ARE RUNNING:
      a. ECONOMIZER FAN TO REMAIN OFF UNDER ALL TEMPERATURE CONDITIONS.
      b. AT OWNERS DISCRETION, THE ECONOMIZER MAY BE SET TO A LOWER SPEED DURING, IN LIEU OF TURNING OFF ALL TOGETHER. RECOMMENDED FAN TURN DOWN SPEED: 50% (ADJ.).
D. ECONOMIZER TO BE INTERLOCKED WITH MINI-SPLIT SYSTEMS AND UNIT HEATERS SO THAT ONLY ONE MECHANICAL SYSTEM IS RUNNING AT ONE TIME.
E. MINIMUM ECONOMIZER FAN RUN TIME: 2 HOURS (ADJ.)

4. SECONDARY COOLING SOURCE: MINI-SPLIT SYSTEMS

A. MINI-SPLITS ARE TO PROVIDE COOLING ONLY, ANY HEAT PUMP OPTIONS SHALL BE DISABLED. MINI-SPLITS ARE TO PROVIDE COOLING TO THE BUILDING ONCE THE OUTDOOR AIR TEMPERATURE IS NO LONGER CONDUCIVE TO FREE COOLING VIA ECONOMIZER EXHAUST FAN.
B. MINI-SPLIT SYSTEMS OPERATION SHALL BE DICTATED BY EXHAUST FAN OPERATION. ONLY ONCE EXHAUST FAN IS TURNED OFF MAY SPLIT SYSTEMS TURN ON.
   i. MINI-SPLIT SYSTEMS TO BE CONTROLLED VIA INDOOR THERMOSTAT, WITH 80°F (ADJ.) SET POINT.
   ii. ALL MINI-SPLITS ARE TO BE INTERLOCKED TO OPERATE IN UNISON, AND TREAT THE SPACE AS ONE SHARED ZONE.
   iii. MINI-SPLIT SYSTEMS TO TURN OFF ONCE EXHAUST FAN TURNS ON.
C. MINIMUM SPLIT SYSTEM RUNTIME: 2 HOURS
D. MINI-SPLIT SYSTEM ON CRITERIA:
   i. ECONOMIZER FAN OFF AND BUILDING INTERNAL TEMPERATURE IS AT OR ABOVE 80°F (ADJ.).
E. MINI-SPLIT SYSTEM OFF CRITERIA:
   i. SYSTEM HAS RUN FOR AT LEAST 2 HOURS, OUTDOOR TEMPERATURE FALLS WITHIN ECONOMIZER OPERATING RANGE, ECONOMIZER FAN TURNS ON.

5. HEATING SOURCE: ELECTRIC UNIT HEATERS

A. ELECTRIC UNIT HEATERS ARE TO KEEP THE INDOOR TEMPERATURE AT OR ABOVE 45°F, REGARDLESS OF PUMP OPERATING STATUS.
B. UNIT HEATERS OPERATION SHALL BE DICTATED BY EXHAUST FAN OPERATION. ONLY ONCE EXHAUST FAN IS TURNED OFF MAY UNIT HEATERS TURN ON.
   i. UNIT HEATERS TO BE CONTROLLED VIA INDOOR THERMOSTAT, AND MAY ONLY TURN ON ONCE INDOOR TEMPERATURE REACHES 44°F (ADJ.).
   ii. UNIT HEATERS TO TURN OFF ONCE EXHAUST FAN TURNS ON, OR INTERNAL TEMPERATURE REACHES 60°F (ADJ.), WHICHEVER COMES FIRST.
C. MINIMUM UNIT HEATER RUNTIME: 30 MINUTES

6. MONITORING AND ALARMS

A. MAINTENANCE PERSONNEL TO BE ALERTED UNDER THE FOLLOWING CONDITIONS:
B. INDOOR BUILDING TEMPERATURE REACHES 35°F (ADJ.)
C. INDOOR BUILDING TEMPERATURE REACHES 94°F (ADJ.)

ACRONYM DEFINITIONS OR ABBREVIATIONS:
CSR: CONTROL SYSTEM RACK
EF: EXHAUST FAN
FCU: FAN COIL UNIT
ODU: OUTDOOR UNIT
PLC: PROGRAMMABLE LOGIC CONTROLLER
SOO: SEQUENCE OF OPERATION
SWE: SUPPLIED WITH EQUIPMENT
TYP: TYPICAL
UH: UNIT HEATER

RD: RED
BK: BLACK
OR: ORANGE
YL: YELLOW
BU: BLUE
WT: WHITE

REGISTERED PROFESSIONAL ENGINEER
100687PE
OREGON
JULY 12, 2022
QUINN CULBERTSON
2025.10.10 10:07:05-04'00'
EXPIRES: 12/31/2027

811 Know what's below. Call before you dig.

NOTES:
1. SEE MECHANICAL DRAWING 450-01 FOR EQUIPMENT SCHEDULE.
2. SEE MECHANICAL DRAWING 420-02 FOR EQUIPMENT LAYOUT/ARRANGEMENT.
3. SIGNAL CABLE SHIELDING GROUNDED ONLY IN CSR AT THE PLC.

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

MECHANICAL - HVAC
BLOCK DIAGRAM

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QMC	BJL	CWC	5002-001	10-17-25	420-01

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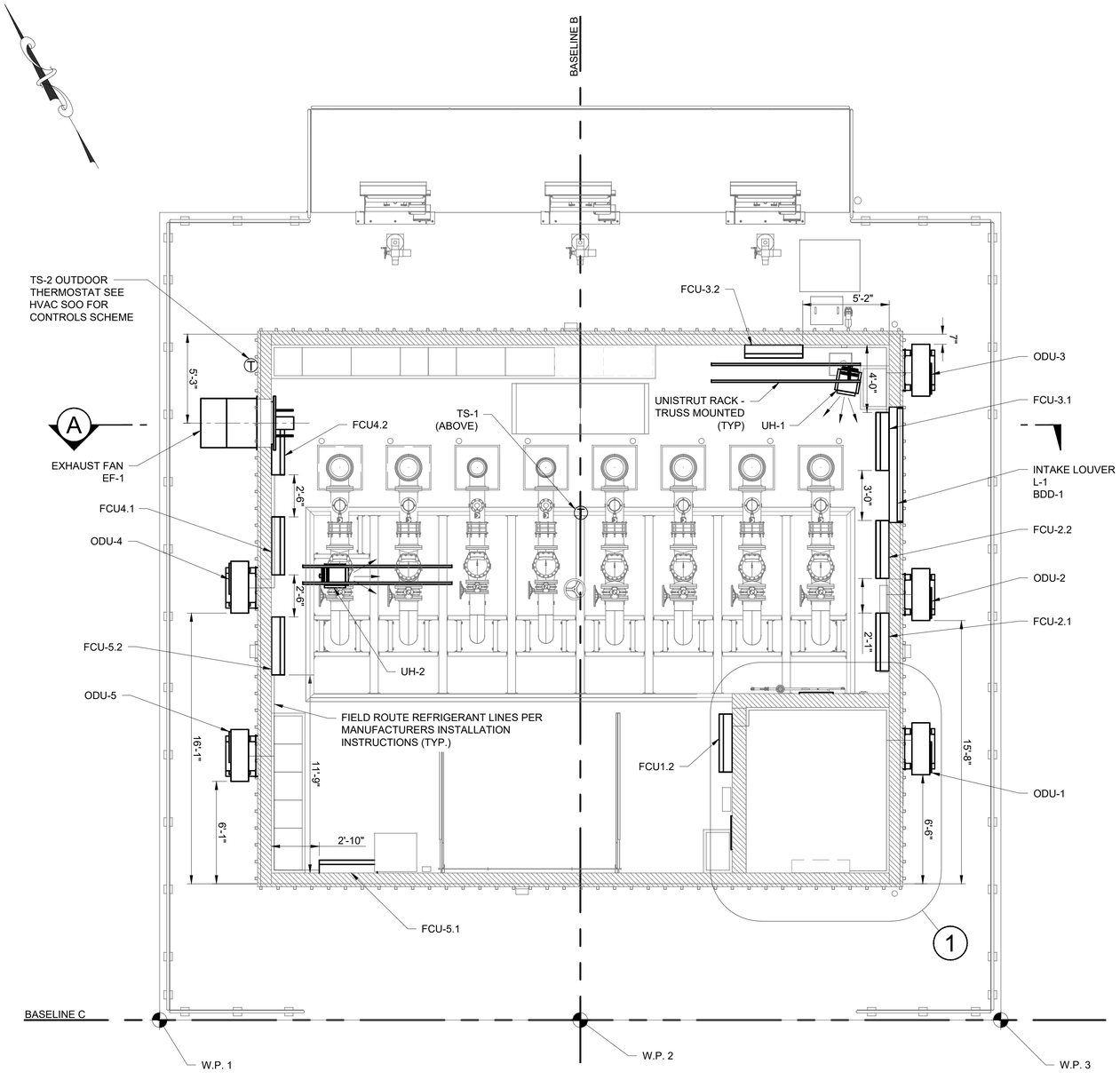
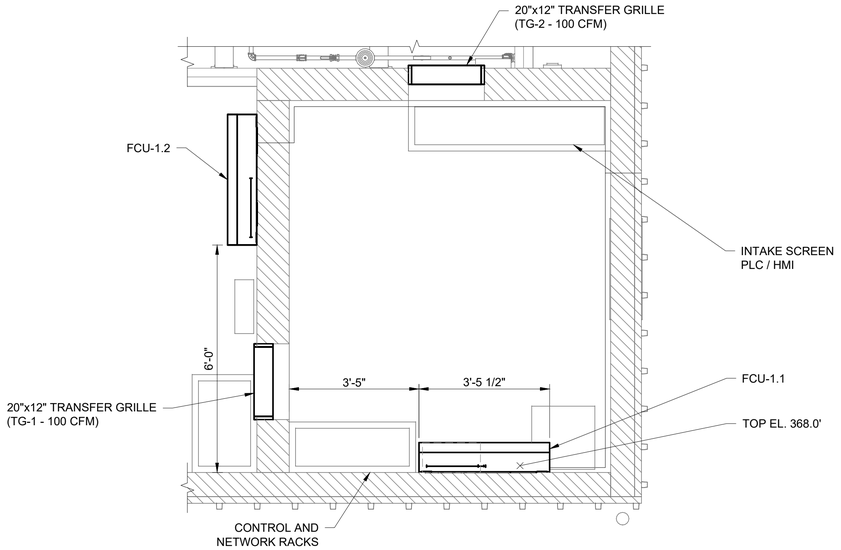


HVAC PLAN

1/4"=1'-0"

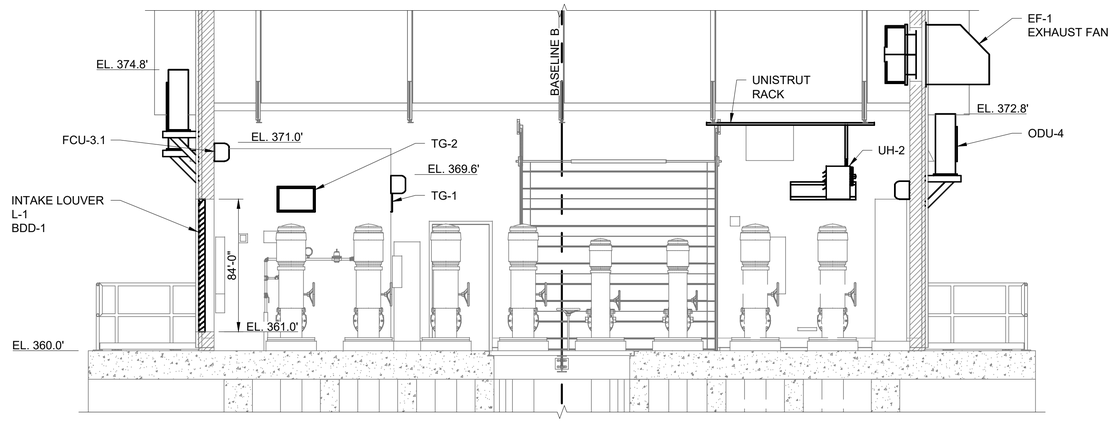
4' 0 4 8



RECORDS ROOM DETAIL 1

1/2"=1'-0"

2' 0 2 4



SECTION A

1/4"=1'-0"

NOTES:

1. AT CONTRACTORS DISCRETION, TRANSFER GRILLES MAY BE UP-SIZED TO ACCOMMODATE CMU BLOCK DIMENSIONS.
2. CONTRACTOR TO VALIDATE HVAC EQUIPMENT SOO COMPARABILITY PRIOR TO EQUIPMENT PROCUREMENT.
3. COORDINATE ALL REFRIGERANT PIPE SELECTION, SIZING, AND ROUTING WITH MANUFACTURER.
4. FIELD ROUTE FCU CONDENSATE DRAINS DOWN INTO WET WELL OR OUTSIDE. SEAL ALL WALL PENETRATIONS WEATHER TIGHT.
5. ENSURE ALL MECHANICAL EQUIPMENT IS INSTALLED PER MANUFACTURERS RECOMMENDATIONS, AND REQUIRED ALL MAINTENANCE CLEARANCES ARE MET.
6. PROVIDE AIR INTAKE LOUVER (L-1) AND BACK DRAFT DAMPER (BDD-1) WITH FIELD ADJUSTABLE WEIGHTED SLATS.
7. PROVIDE ECONOMIZER EXHAUST FAN (EF-1) WITH WEATHER HOOD, BACK DRAFT DAMPER, AND OSHA MOTOR GUARD. ORIENT SUCH THAT FAN MOTOR CAN BE EASILY REMOVED FOR MAINTENANCE. EF-1 SHALL ALSO INCLUDE A VARI-GREEN MOTOR, OR SIMILAR, FOR FINE TUNED FLOW CONTROL.
8. REFER TO HVAC SOO FOR CONTROL SCHEME FOR SPLIT SYSTEMS, ECONOMIZER FAN, AND UNIT HEATERS.
9. FIELD MOUNT UH-1 AND UH-2 ON FIELD CONSTRUCTED UNISTRUT RACK FROM ROOF TRUSS. INSTALL/MOUNT UH-1 AND UH-2 APPROX. 8' AFF, PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
10. SEE EQUIPMENT SCHEDULE ON SHEET 450-01 FOR AIR FLOW RATES AND ADDITIONAL EQUIPMENT DETAILS.

Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER
100687PE
OREGON
JULY 12, 2022
QUINN CULBERTSON
2025.10.15 16:07:05-04'00'
EXPIRES: 12/31/2027

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

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Designed	Drawn	Checked
QMC	CRS	CWC

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

MECHANICAL - HVAC
PLAN & DETAILS

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Project No.	Date Revised	Drawing No.
5002-001	10-17-25	420-02

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3" 2" 1" 0 22x34 = FULL SCALE

PUMPS

ITEM NUMBER	DESCRIPTION	NOMINAL DISCHARGE SIZE [IN.]	MOTOR SIZE [HP]	RATED FLOW [GPM]	TOTAL DYNAMIC HEAD [FT]	VOLTAGE	FULL LOAD AMPERAGE	ELECTRICAL CONTROL	MANUFACTURER & MODEL	NOTES
PMP-1	VERTICAL TURBINE PUMP	12	250	3100	250	460V/3PH	281	VFD	TBD	FUTURE
PMP-2	VERTICAL TURBINE PUMP	12	250	3100	250	460V/3PH	281	VFD	TBD	FUTURE
PMP-3	VERTICAL TURBINE PUMP	10	125	1500	250	440V/3PH	150	REDUCED-VOLTAGE SOFT START	TRILLIUM FLOW TECHNOLOGIES FLOWAY VTP	1,3,4,7
PMP-4	VERTICAL TURBINE PUMP	10	125	1500	250	440V/3PH	150	REDUCED-VOLTAGE SOFT START	TRILLIUM FLOW TECHNOLOGIES FLOWAY VTP	1,3,4,7
PMP-5	VERTICAL TURBINE PUMP	12	250	3100	250	460V/3PH	281	VFD	TRILLIUM FLOW TECHNOLOGIES FLOWAY VTP	2,3,5,7
PMP-6	VERTICAL TURBINE PUMP	12	250	3100	250	460V/3PH	281	VFD	TRILLIUM FLOW TECHNOLOGIES FLOWAY VTP	2,3,5,7
PMP-7	VERTICAL TURBINE PUMP	12	250	3100	250	460V/3PH	281	VFD	TRILLIUM FLOW TECHNOLOGIES FLOWAY VTP	2,3,5,7
PMP-8	VERTICAL TURBINE PUMP	12	250	3100	250	460V/3PH	281	VFD	TRILLIUM FLOW TECHNOLOGIES FLOWAY VTP	2,3,5,7
PMP-9	SUMP DEWATERING PUMP	3	3	110	35.5	460V/3PH	18.4	DIRECT ON LINE	GRUNDFOS SL1.20.A30.30.2.6.1H.Q	6

NOTES:
1. REFERENCE FLOW CURVE: 14JKM
2. REFERENCE FLOW CURVE: 16DKL
3. REFERENCE QUOTE NUMBER: 1708025
4. MOTOR MFC & MDL: NIDEC MOTOR CORPORATION HO125P2RLG
5. MOTOR MFC & MDL: NIDEC MOTOR CORPORATION HO250P2SLHX
6. CONTRACTOR TO PROVIDE CIRCULAR MOUNTING BASAE PLATE
7. EQUIPMENT TO BE SUPPLIED WITH ANTI-CONDENSATION HEATERS; 144W FOR 125HP MOTOR, 192W FOR 250HP MOTOR

INTAKE SCREENS

ITEM NUMBER	DESCRIPTION	CAPACITY [CFS]	DIAMETER [IN]	LENGTH [IN]	SCREEN WINCH SIZE [HP/V/PH/A]	SCREEN MOTOR SIZE [HP/V/PH/A]	MANUFACTURER & MODEL	NOTES
IS-1	SELF CLEANING DRUM SCREEN	13	36	48	2 / 460 / 3 / 3.3	0.5 / 460 / 3 / 0.9	ISI D36-46EA-R	1
IS-2	SELF CLEANING DRUM SCREEN	13	36	48	2 / 460 / 3 / 3.3	0.5 / 460 / 3 / 0.9	ISI D36-46EA-R	1
IS-3	SELF CLEANING DRUM SCREEN	13	36	48	2 / 460 / 3 / 3.3	0.5 / 460 / 3 / 0.9	ISI D36-46EA-R	FUTURE

NOTES:
1. ADDITIONAL ELECTRICAL REQUIREMENTS INCLUDE A 24 VDC CONTROLS CIRCUIT (4 AMPS) AND A 120 VAC CONTROLS CIRCUIT (4 AMPS)

VALVES

ITEM NUMBER	DESCRIPTION	NOMINAL SIZE [IN.]	MANUFACTURER & MODEL	NOTES
BV-1	BUTTERFLY VALVE	12	MILWAUKEE VALVE ML937E	FUTURE
BV-2	BUTTERFLY VALVE	12	MILWAUKEE VALVE ML937E	FUTURE
BV-3	BUTTERFLY VALVE	10	MILWAUKEE VALVE ML937E	
BV-4	BUTTERFLY VALVE	10	MILWAUKEE VALVE ML937E	
BV-5	BUTTERFLY VALVE	12	MILWAUKEE VALVE ML937E	
BV-6	BUTTERFLY VALVE	12	MILWAUKEE VALVE ML937E	
BV-7	BUTTERFLY VALVE	12	MILWAUKEE VALVE ML937E	
BV-8	BUTTERFLY VALVE	12	MILWAUKEE VALVE ML937E	
BV-9	BUTTERFLY VALVE	12	MILWAUKEE VALVE ML937E	LONG HANDWHEEL STEM
BV-10	STATION ISOLATION BUTTERFLY VALVE	30	DeZURIK BAW-F1-NBRA-GB-12A-N	2
BV-11	SURGE TANK ISOLATION BUTTERFLY VALVE	12	DeZURIK BAW-F1-NBRA-GB-6B-N	2
BA-1	BALL VALVE	1	WATTS SFBV-1 1	
BA-2	BALL VALVE	3/4	WATTS SFBV-1 3/4	
BA-3	BALL VALVE	1	WATTS SFBV-1 1	
BA-4	BALL VALVE	1	WATTS SFBV-1 1	
BA-5	BALL VALVE	4	TANA SSBV400FPX	
CV-1	CHECK VALVE	12	APCO CRF-100A	FUTURE
CV-2	CHECK VALVE	12	APCO CRF-100A	FUTURE
CV-3	CHECK VALVE	10	APCO CRF-100A	
CV-4	CHECK VALVE	10	APCO CRF-100A	
CV-5	CHECK VALVE	12	APCO CRF-100A	
CV-6	CHECK VALVE	12	APCO CRF-100A	
CV-7	CHECK VALVE	12	APCO CRF-100A	
CV-8	CHECK VALVE	12	APCO CRF-100A	
CAV-1	COMBINATION AIR VALVE (AIR RELEASE + VACUUM)	4	APCO 1904-200A	FUTURE
CAV-2	COMBINATION AIR VALVE (AIR RELEASE + VACUUM)	4	APCO 1904-200A	FUTURE
CAV-3	COMBINATION AIR VALVE (AIR RELEASE + VACUUM)	3	APCO 146DAT-50	1
CAV-4	COMBINATION AIR VALVE (AIR RELEASE + VACUUM)	3	APCO 146DAT-50	1
CAV-5	COMBINATION AIR VALVE (AIR RELEASE + VACUUM)	4	APCO 1904-200A	1
CAV-6	COMBINATION AIR VALVE (AIR RELEASE + VACUUM)	4	APCO 1904-200A	1
CAV-7	COMBINATION AIR VALVE (AIR RELEASE + VACUUM)	4	APCO 1904-200A	1
CAV-8	COMBINATION AIR VALVE (AIR RELEASE + VACUUM)	4	APCO 1904-200A	1
EDV-1	ENERGY DISSIPATION VALVE	12	BAILEY B-16	

NOTES:
1. PROVIDE AIR VALVE DISCHARGE LINE. ROUTE BACK DOWN TO WET WELL, SLOPE 1/8" PER FOOT, FLANGED CONNECTION.
2. RATED FOR DIRECT BURIAL, PROVIDE STEM EXTENSION.

GATES

ITEM NUMBER	DESCRIPTION	TYPE	SIZE [IN]	OPERATOR	MOTOR SIZE [HP]	VOLTAGE	MAX CURRENT [A]	SEATING HEAD [FT]	UNSEATING HEAD [FT]
SG-1	WET WELL SUPPLY INTAKE GATE	FABRICATED STAINLESS STEEL	42 X 42	MOTORIZED, ELECTRIC	4	480V/3PH	22	12	12
SG-2	WET WELL SUPPLY INTAKE GATE	FABRICATED STAINLESS STEEL	42 X 42	MOTORIZED, ELECTRIC	4	480V/3PH	22	12	12
SG-3	WET WELL SUPPLY INTAKE GATE	FABRICATED STAINLESS STEEL	42 X 42	MANUAL, HAND CRANK	N/A	N/A	N/A	12	12

AC SPLIT SYSTEMS

ITEM NUMBER	DESCRIPTION	TOTAL COOLING CAPACITY [BTU/HR]	SENSIBLE COOLING CAPACITY [BTU/HR]	EER	VOLTAGE	MAX CURRENT [A]		MANUFACTURER & MODEL	NOTES
						OUT DOOR UNIT	FAN COIL UNIT(S)		
ODU-1, FCU-1.1/1.2	MINI SPLIT SYSTEM (COOLING ONLY)	45,500	36,000	10.30	208V/1PH	19.00	0.50	DAIKIN RXTQ48TAVJU / FXAQ24PVJU	1,2,3
ODU-2, FCU-2.1/2.2	MINI SPLIT SYSTEM (COOLING ONLY)	45,500	36,000	10.30	208V/1PH	19.00	0.50	DAIKIN RXTQ48TAVJU / FXAQ24PVJU	1,2,3
ODU-3, FCU-3.1/3.2	MINI SPLIT SYSTEM (COOLING ONLY)	45,500	36,000	10.30	208V/1PH	19.00	0.50	DAIKIN RXTQ48TAVJU / FXAQ24PVJU	1,2,3
ODU-4, FCU-4.1/4.2	MINI SPLIT SYSTEM (COOLING ONLY)	45,500	36,000	10.30	208V/1PH	19.00	0.50	DAIKIN RXTQ48TAVJU / FXAQ24PVJU	1,2,3
ODU-5, FCU-5.1/5.2	MINI SPLIT SYSTEM (COOLING ONLY)	45,500	36,000	10.30	208V/1PH	19.00	0.50	DAIKIN RXTQ48TAVJU / FXAQ24PVJU	1,2,3

NOTES:
1. FOUR TON UNITS REQUIRE SEPARATE POWER SUPPLY TO EACH INDOOR FAN COIL UNIT (2 FCUs PER ODU)
2. REFER TO CLIMATE CONTROL SOO FOR HVAC CONTROLS AND INTERLOCKS.
3. IN ORDER TO ACHIEVE INTERLOCK WITH ECONOMIZER FAN, A DKN PLUS ADAPTER REQUIRED FOR EACH FCU. MFC: DAIKIN, MDL: AZAI6WSPDKC

AIR INTAKE LOUVER / BACK DRAFT DAMPER

ITEM NUMBER	DESCRIPTION	SIZE, W x H, [IN]	THICKNESS [IN]	FREE AREA [%], VELOCITY [FPM]	AIR FLOW [CFM]	PRESSURE DROP [INWC]	MANUFACTURER & MODEL	NOTES
L-1	LOUVER	84 x 84	-	59.3, 484	14,000	0.038	GREENHECK ESD-435	
BDD-1	BACK DRAFT DAMPER	84 x 84	5	-	14,000	0.05	GREENHECK BR-30	1
BDD-2	BACK DRAFT DAMPER	32 x 32	3.125	-	14,000	0.08	GREENHECK EM-31	1

NOTES:
1. CONTRACTOR TO FIELD ADJUST BDD START OPEN PRESSURE

EXHAUST FAN

ITEM NUMBER	DESCRIPTION	AIR FLOW [CFM]	STATIC PRESSURE [INWC]	MOTOR SIZE [HP]	FAN RPM	VOLTAGE	FULL LOAD AMPERAGE	MANUFACTURER & MODEL	NOTES
EF-1	EXHAUST FAN (ECONOMIZER)	14,000	0.703	5	1,550	460V/3PH	7.1	GREENHECK AER-30-VG	1,2,3

NOTES:
1. PROVIDE INTAKE SAFETY GUARD, GRAVITY DAMPER, AND WEATHER HOOD
2. PROVIDE VARI-GREEN MOTOR CONTROLER, FOR FINE TUNE ADJUSTMENTS
3. APPROX. WALL OPENING: 32.5" x 32.5", FIELD VERIFY

UNIT HEATERS

ITEM NUMBER	DESCRIPTION	AIR FLOW [CFM]	HEATING CAPACITY [Kw, BTU/H]	MOTOR SIZE [HP]	VOLTAGE	CURRENT DRAW [AMPS]	MANUFACTURER & MODEL	NOTES
UH-1	ELECTRIC UNIT HEATER	530	7.5, 25,600	1/40	480V/3PH	10	MODINE HER 75	1
UH-2	ELECTRIC UNIT HEATER	530	7.5, 25,600	1/40	480V/3PH	10	MODINE HER 75	1

NOTES:
1. MOUNT FROM ROOF TRUSS, APPROX. 8' AFF.

COUPLINGS

ITEM NUMBER	DESCRIPTION	NOMINAL SIZE [IN.]	MANUFACTURER & MODEL	NOTES
FC-1	FLEXIBLE COUPLING	12	ROMAC INDUSTRIES MODEL 501	FUTURE
FC-2	FLEXIBLE COUPLING	12	ROMAC INDUSTRIES MODEL 501	FUTURE
FC-3	FLEXIBLE COUPLING	10	ROMAC INDUSTRIES MODEL 501	
FC-4	FLEXIBLE COUPLING	10	ROMAC INDUSTRIES MODEL 501	
FC-5	FLEXIBLE COUPLING	12	ROMAC INDUSTRIES MODEL 501	
FC-6	FLEXIBLE COUPLING	12	ROMAC INDUSTRIES MODEL 501	
FC-7	FLEXIBLE COUPLING	12	ROMAC INDUSTRIES MODEL 501	
FC-8	FLEXIBLE COUPLING	12	ROMAC INDUSTRIES MODEL 501	
FC-9	FLEXIBLE COUPLING	12	ROMAC INDUSTRIES MODEL 501	
DJ-1	DISMANTLING JOINT	30	ROMAC INDUSTRIES DJ400	
DJ-2	DISMANTLING JOINT	12	ROMAC INDUSTRIES DJ400	

AIR TRANSFER GRILLES

ITEM NUMBER	DESCRIPTION	AIR FLOW [CFM]	NOMINAL FACE SIZE	FINISH	MANUFACTURER & MODEL	NOTES
TG-1	AIR TRANSFER GRILLE	100	20" x 12"	ALUMINUM	PRICE ATG1	1
TG-2	AIR TRANSFER GRILLE	100	20" x 12"	ALUMINUM	PRICE ATG1	1

NOTES:
1. MOUNT APPROX. 7' AFF.

WATER LEVEL TRANSMITTERS

ITEM NUMBER	DESCRIPTION	PRESSURE RANGE [BAR]	POWER SUPPLY	MANUFACTURER & MODEL	NOTES
LIT-1	RIVER WATER LEVEL TRANSMITTER	0.1 - 1.5	24 VDC, 20 mA	SENSORSONE LMP 307	1
LIT-2	SUMP WATER LEVEL TRANSMITTER	0.1 - 1.5	24 VDC, 20 mA	SENSORSONE LMP 307	1

NOTES:
1. CONTRACTOR TO COORDINATE WITH INTAKE SCREEN VENDOR FOR FINAL WATER LEVEL TRANSMITTER SELECTION.

FLOW METER

ITEM NUMBER	DESCRIPTION	NOMINAL SIZE [IN.]	POWER SUPPLY	MANUFACTURER & MODEL	NOTES
FM-1	ULTRASONIC FLOW METER	30	AC/DC 24 V, 350 mA	ENDRESS + HAUSER PROLINE PROSONIC FLOW W 400	1,2

NOTES:
1. PROVIDE TWO-PATH MEASUREMENT SET UP (TWO SENSOR SETS) TO ACCOUNT FOR TURBULENT CONDITIONS. 1 MHz SENSOR VERSION.
2. PURCHASE CABLE WITH INSTRUMENT, 30m LENGTH.

TURBIDIMETER

ITEM NUMBER	DESCRIPTION	POWER SUPPLY	MANUFACTURER & MODEL
AIT-1	TURBIDITY METER AND CONTROLLER	24VDC	HACH TU5300sc + SC4500 CONTROLLER

PRESSURE GAUGES/TRANSMITTERS

ITEM NUMBER	DESCRIPTION	PRESSURE RANGE [PSIG]	POWER SUPPLY	MANUFACTURER & MODEL	NOTES
PG-1	PMP-1 DISCHARGE PRESSURE GAUGE	0 - 180	N/A	ROSEMOUNT WPG45XNAG11A018000	FUTURE
PG-2	PMP-2 DISCHARGE PRESSURE GAUGE	0 - 180	N/A	ROSEMOUNT WPG45XNAG11A018000	FUTURE
PG-3	PMP-3 DISCHARGE PRESSURE GUAGE	0 - 180	N/A	ROSEMOUNT WPG45XNAG11A018000	
PG-4	PMP-4 DISCHARGE PRESSURE GUAGE	0 - 180	N/A	ROSEMOUNT WPG45XNAG11A018000	
PG-5	PMP-5 DISCHARGE PRESSURE GUAGE	0 - 180	N/A	ROSEMOUNT WPG45XNAG11A018000	
PG-6	PMP-6 DISCHARGE PRESSURE GUAGE	0 - 180	N/A	ROSEMOUNT WPG45XNAG11A018000	
PG-7	PMP-7 DISCHARGE PRESSURE GUAGE	0 - 180	N/A	ROSEMOUNT WPG45XNAG11A018000	
PG-8	PMP-8 DISCHARGE PRESSURE GUAGE	0 - 180	N/A	ROSEMOUNT WPG45XNAG11A018000	
PG-9	TURBIDITY PRESSURE REGULATION GUAGE	0 - 100	N/A	ROSEMOUNT WPG45XNAG11A010000	
PG-10	ENERGY DISSIPATION VALVE INLET PRESSURE GUAGE	0 - 180	N/A	ROSEMOUNT WPG45XNAG11A018000	
PG-11	ENERGY DISSIPATION VALVE OUTLET PRESSURE GUAGE	0 - 180	N/A	ROSEMOUNT WPG45XNAG11A018000	
PT-1	PUMP STATION DISCHARGE PRESSURE TRANSMITTER	0 - 180	24 VDC, 200 mA	ROSEMOUNT 2088G3S22A1S1	

TEMPERATURE SENSORS

ITEM NUMBER	DESCRIPTION	OUTPUT	OPERATING RANGE	MANUFACTURER & MODEL
TS-1	INDOOR TEMPERATURE SENSOR	4-20mA	-40°F - 122°F	SIEMENS QAC3171
TS-2	OUTDOOR TEMPERATURE SENSOR	4-20mA	-40°F - 122°F	SIEMENS QAC3171

GENERAL NOTE: LISTED MANUFACTURERS AND MODEL NUMBERS ARE FOR REFERENCE ONLY. REFER TO APPROVED SUBMITTAL DOCUMENTS PRIOR TO EQUIPMENT PROCUREMENT.

REGISTERED PROFESSIONAL ENGINEER
100687PE
OREGON
JULY 12, 2022
QUINN CULBERTSON
2026.10.10 16:07:09-04'00'
EXPIRES: 12/31/2027

Know what's below. Call before you dig.

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

MECHANICAL - TYPICAL DETAILS
EQUIPMENT SCHEDULE

Kleinschmidt
888-224-5942
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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
QMC	BJL	CWC	5002-001	10-17-25	450-01

PRINTED: Oct. 21, 2025 - 10:39 AM K:\Jobs\5002001\Drawings\CAD\WORKING DRAWINGS\Joint Pump And Pipeline Project Design Set\5002001 450-01.dwg

22x34 = FULL SCALE
3" 2" 1" 0
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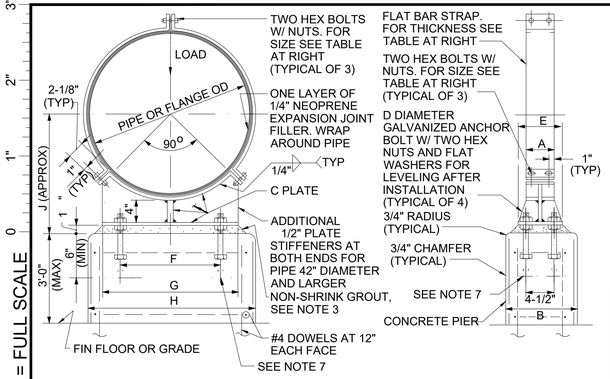


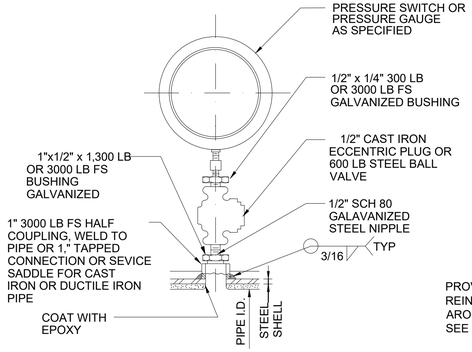
PIPE SUPPORT WITH STRAP

(FOR PIPE 72" DIAMETER AND SMALLER)

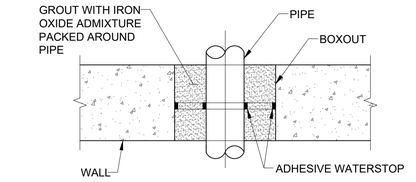
NOTES:

1. WHEN SUPPORTING PIPE AND FLANGE ALTERNATELY ON THE SAME LINE, CONCRETE PIERS FOR PIPE SUPPORTS SHALL ALL HAVE THE SAME DIMENSION 'H' FOR FLANGE SUPPORT.
2. PIPE SUPPORTS SHALL BE LOCATED IN PLAN AT POINTS MARKED THUS: (X).
3. WHERE DIFFERENTIAL SETTLEMENT IS LIKELY TO OCCUR, OMIT GROUT AS DIRECTED BY THE ENGINEER.
4. GALVANIZE ALL PARTS AFTER FABRICATION.
5. WHERE DIRECTED BY THE STRUCTURAL ENGINEER, BOTTOM OF PIERS SHALL EXTEND BELOW BOTTOM OF SLAB.
6. WHERE PIPE SUPPORT OCCURS ON GRADE REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
7. 4" LONG, GALVANIZED ANCHOR BOLT OR CONCRETE ANCHOR WITH TWO NUTS AND ONE LOCKWASHER. PROVIDE BAR 4 X 1/2 X 4" WELDED TO BOLT. (TYP OF 4).

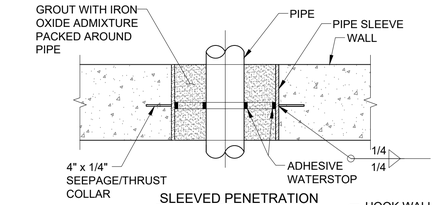
DIMENSIONS IN INCHES															
NOMINAL PIPE SIZE						STRAP		SUPPORTING							
						BOLT SIZE	FLAT BAR	PIPE				FLANGE			
	A	B	C	D	E			F	G	H	J	F	G	H	J
10	4	12	3/8	5/8	6	1/2	1/4	6	11	16	12	9	15	20	15
12	4	12	3/8	5/8	6	1/2	1/4	7	13	18	13	10	17	22	16
30	5	12	3/8	1/4	6	5/8	3/8	16	25	30	22	20	31	36	26



PRESSURE GAUGE OR SWITCH

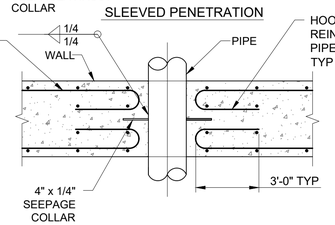


BOXOUT OR CORED PENETRATION



SLEEVED PENETRATION

PROVIDE EXTRA REINFORCEMENT AROUND OPENING SEE SHEET 350-01

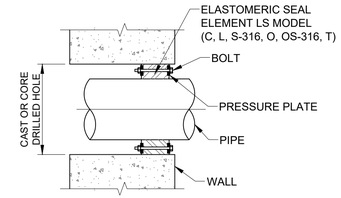


CAST-IN-PLACE PENETRATION

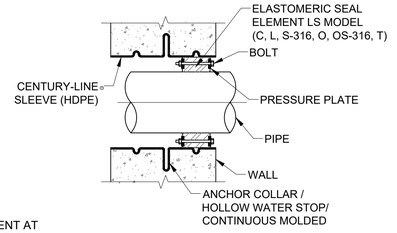
NOTE:
APPLY MATERIALS PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

TYPICAL PIPE PENETRATION DETAIL UNLESS NOTED OTHERWISE

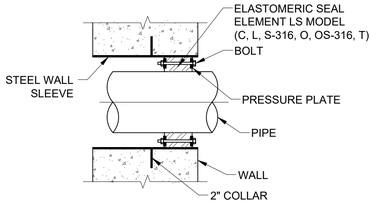
NOT TO SCALE



BOXOUT OR CORED PENETRATION



HDPE SLEEVED PENETRATION

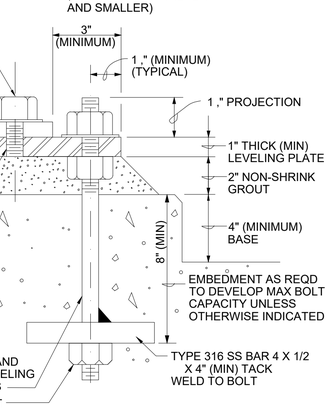


STEEL SLEEVED PENETRATION

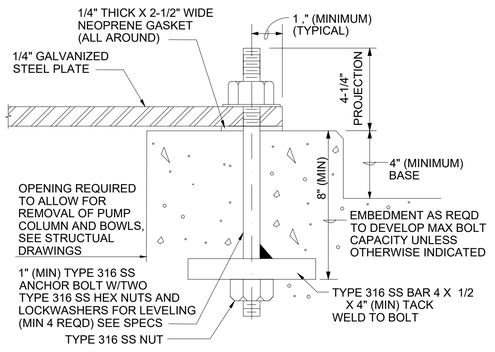
LINKSEAL PIPE PENETRATION DETAIL WHERE SPECIFIED

NOT TO SCALE

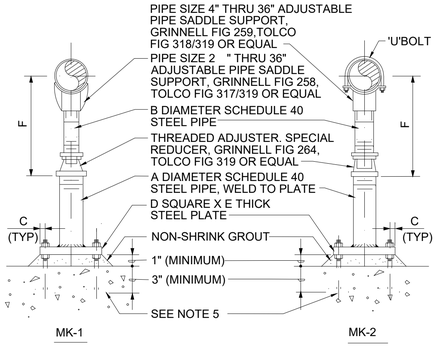
NOTE:
APPLY MATERIALS PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS, SEE WEBSITE: www.linkseal.com



VERTICAL PUMP MOUNTING BASE



VERTICAL PUMP MOUNTING BASE FOR FUTURE PUMP



DIMENSIONS IN INCHES							
NOMINAL PIPE SIZE	A	B	C	D	E	F (APPROX) (MINIMUM)	F (APPROX) (MAXIMUM)
10	3	*2 1/2 / 3	1 1/8	7 1/2	1/2	14 5/8	19 1/8
12	3	*2 1/2 / 3	1 1/8	7 1/2	1/2	15 5/8	20 1/8
30	6	4	1 1/2	11	3/4	29 5/8	34 1/8

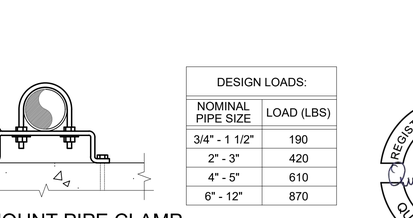
* SEE MANUFACTURER

NOTES:

1. FOR ADDITIONAL REQUIREMENTS SEE SPEC SECTION 'PIPE SUPPORTS'.
2. GALVANIZE ALL PARTS AFTER FABRICATION.
3. WHERE PIPE SUPPORT OCCURS ON GRADE REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
4. THIS PIPE SUPPORT IS LIMITED TO PIPE FROM 2 " DIAMETER TO 36" DIAMETER INCLUSIVE.
5. GALVANIZED ANCHOR BOLT OR CONCRETE ANCHOR WITH TWO NUTS AND ONE LOCKWASHER. PROVIDE BAR 4 X X 4" WELDED TO BOLT. (TYP OF 4) SEE SPECIFICATIONS.

ADJUSTABLE PIPE SUPPORT WITH OR WITHOUT 'U' BOLT

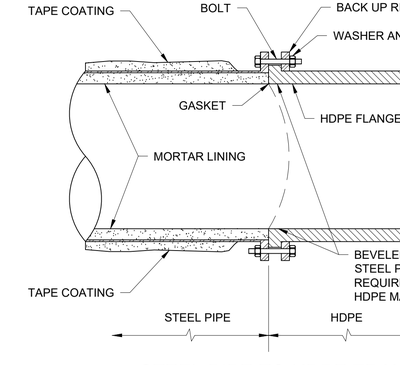
(FOR PIPE 36" DIAMETER AND SMALLER)



CUSTOM PIPE FLANGE DETAIL

NOT TO SCALE

(CUSTOM FABRICATED FLANGE TO BE USED ONLY WHEN STANDARD CLASS 150 FLANGES ARE INCOMPATIBLE)

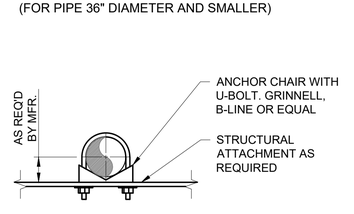


STEEL PIPE TO HDPE TRANSITION

NOT TO SCALE

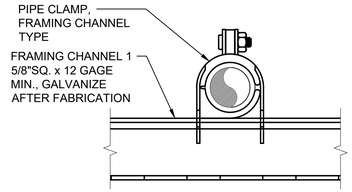
NOTES:

1. CONTRACTOR SHALL ENSURE FLANGE BOLT HOLE PATTERN FOR HDPE AND STEEL PIPES MATCH
2. SEE HDPE SPEC FOR MORE INFORMATION
3. ALL BOLTS AND HARDWARE TO BE STAINLESS STEEL
4. STEEL PIPE FLANGE AND HDPE FLANGE ADAPTER SHALL APPROXIMATELY MATCH INSIDE DIAMETERS. ADAPTER FLANGE O.D. SHALL BE CLEAR OF FLANGE BOLTS.



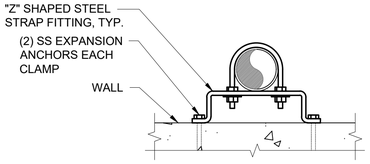
FLANGE MOUNT PIPE CLAMP

NOT TO SCALE



STRUT MOUNT PIPE CLAMP

NOT TO SCALE



WALL MOUNT PIPE CLAMP

NOT TO SCALE

DESIGN LOADS:	
NOMINAL PIPE SIZE	LOAD (LBS)
3/4" - 1 1/2"	190
2" - 3"	420
4" - 5"	610
6" - 12"	870

REGISTERED PROFESSIONAL ENGINEER
100687PE
OREGON
JULY 12, 2022
QUINN CULBERTSON
2025.10.10 16:07:09-04'00'
EXPIRES: 12/31/2027

Know what's below. Call before you dig.

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

MECHANICAL - TYPICAL DETAILS
TYPICAL DETAILS

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	CWC

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
QMC	CRS	CWC	5002-001	10-17-25	450-02

3" 2" 1" 0

22x34 = FULL SCALE

K:\Jobs\5002\001\Drawings\CAD\WORKING DRAWINGS\Joint Pump And Pipeline Project Design Set\5002001 500-01.dwg

PRINTED May. 20, 2026 - 6:38 PM

NOTES:

1. UMATILLA ELECTRIC COOPERATIVE (UEC) PRIMARY POWER CONDUIT RUNS UNDERGROUND TO PAD MOUNT DISTRIBUTION TRANSFORMER. CONDUIT MATERIALS FOR POWER (6") AND COMMUNICATIONS (2") TO BE PROVIDED BY UEC AND INSTALLED BY CONTRACTOR. SEE SPECIFICATIONS.
2. COMMUNICATIONS CONDUIT FOR SINGLE-MODE FIBER UP TO THE WATER TREATMENT PLANT (WTP).
3. 2,000A SERVICE AND CONTROL/POWER/COMMUNICATION CONDUIT IN TRENCH.
4. BOLLARDS, TYPICAL, SEE DETAIL ON 250-02. MINIMUM DISTANCE FROM EQUIPMENT SHALL BE COORDINATED WITH UEC.
5. TERMINATE 2" PVC SCH. 40 IN AN UNDERGROUND JUNCTION BOX. PULL TAPE ONLY - FOR FUTURE USE. CONDUIT SHALL BE BURIED AT A 24" DEPTH.
6. UEC PROVIDED TRANSFORMER. CONTRACTOR SUPPLIED PAD MOUNT TRANSFORMER PAD WITH INTEGRAL OIL CONTAINMENT, AND FOUNDATION (SEE DETAIL ON 250-02). COORDINATE WITH UEC.
7. 4-INCH THICK (MINIMUM), CONCRETE PAD SHALL BE PROVIDED BY CONTRACTOR AND CONSTRUCTED PER UEC STANDARDS FOR SERVICE ENTRANCE METERING EQUIPMENT (MEETING ALL USERC AND 2,000A SERVICE ENTRANCE AND AUTOMATIC TRANSFER SWITCH REQUIREMENTS). SEE 500-03.
8. STANDBY DIESEL ENGINE-GENERATOR (E-G) CONCRETE PAD SHALL BE PROVIDED BY CONTRACTOR AND CONSTRUCTED IN ACCORDANCE WITH MANUFACTURERS GUIDELINES, APPLICABLE NFPA REQUIREMENTS, AND DETAILS ON 330-02 AND 330-03.
9. HIGH RESISTANCE GROUNDING ENCLOSURE AND HRG DISCONNECT, NEMA4, MINIMUM SIZE: 20"X8"X6", OR APPROVED EQUAL, WITH SCHNEIDER ELECTRIC PowerPactT(TM) J-FRAME CIRCUIT BREAKER, 250A FRAME, 600V, LSI STD ELEC. TRIP 3.2S (70A SETTING), 65kAIC, MECH. LUGS (6 EACH), WITH CABLE OPERATING HANDLE.
10. E-G ACCESSORY LOAD CENTER (120/208V, 1-PH) AND CONDUIT TO E-G LOADS.
11. E-G ACCESSORY LOAD CENTER SUPPLY CONDUIT AND FEEDER CIRCUIT LP1-10/12. PARKING LOT AREA LUMINAIRE B-01 CONDUIT AND LIGHTING CIRCUIT LP1-38.

COLUMBIA RIVER

335 340 345 350 355 360 365 370

W.P. 1
W.P. 4
W.P. 2
W.P. 3
W.P. 5
W.P. 6
W.P. 7
W.P. 8
W.P. 9

C.P. 3
C.P. 2
C.P. 4

FOR SERVICE ENTRANCE DETAILS SEE FOLLOWING 500 SERIES SHEETS

SEE NOTE 5
SEE NOTE 3
SEE NOTE 11
SEE NOTE 8
SEE NOTE 4
SEE NOTE 6
SEE NOTE 10
SEE NOTE 7
SEE NOTE 9
SEE NOTE 1
SEE NOTE 2

FOR TRENCH DETAILS SEE SERIES 230

PUMP STATION ELECTRICAL SEE 500-02

BASELINE C
BASELINE B
BASELINE A

NC-001A & NC-001B

SURGE SYSTEM CONTROL PANEL
HEAT TRACE CONTROL PANEL

UMATILLA ELECTRIC COOPERATIVE TRANSFORMER

DB-3
ATS CONTROL CONDUIT
PULL BOX PB-1
DB-2
DB-1
CC-25, 26

ATS (PROVIDED BY OWNER)
SERVICE ENTRANCE METERING EQUIPMENT (BY CONTRACTOR)

STANDBY DIESEL ENGINE-GENERATOR PROVIDED BY OWNER

UL 142 FUEL TANK AND ENCLOSURE ALONG THE WIDTH OF THE E-G (SEE DRAWING 500-03).

BURIED FIBER OPTICS CONDUIT FOR TRENCH DETAILS SEE SERIES 230

A 03

NORTHING: 826787.23
EASTING: 8524056.68

NORTHING: 826771.50
EASTING: 8524047.93

NORTHING: 826757.40
EASTING: 8524073.27

NORTHING: 826773.13
EASTING: 8524082.02

20'-6" 8'-2" 10'-10" 12'-7"

INTAKE AREA PLAN

1" = 10'

10' 0 10' 20'

SCALE IN FEET

LEGEND

UE UE UE	NEW UNDERGROUND ELECTRIC
FO FO FO	NEW UNDERGROUND FIBER OPTIC
	NEW CONDUIT
XX XX	NEW SECURITY FENCE
G G	NEW VEHICULAR GUARDRAIL
	WATERLINE
OE OE	EXISTING OVERHEAD ELECTRIC
UE UE	EXISTING UNDERGROUND ELECTRIC
IRR IRR	EXISTING PIPELINE

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91363PE
OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2027

No.	Revision	Date	Drawn	Checked
1	ISSUED FOR BID	05-20-26	BJL	MTD
0	ISSUED FOR BID	10-17-25	BJL	MTD

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IAA	BJL	MTD	5002-001	05-20-26	500-01

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

ELECTRICAL - GENERAL ARRANGEMENT SITE PLAN

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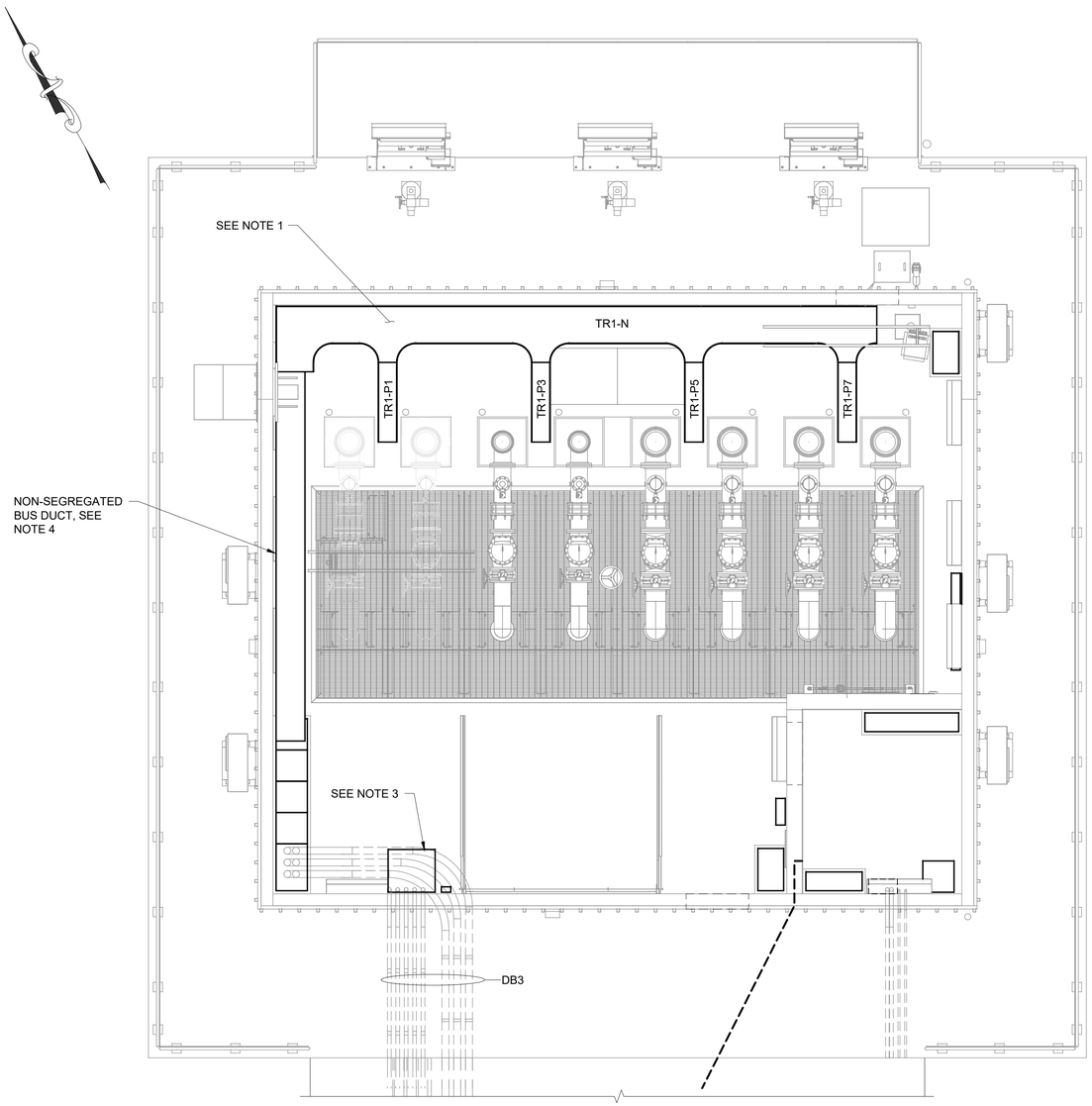
22x34 = FULL SCALE

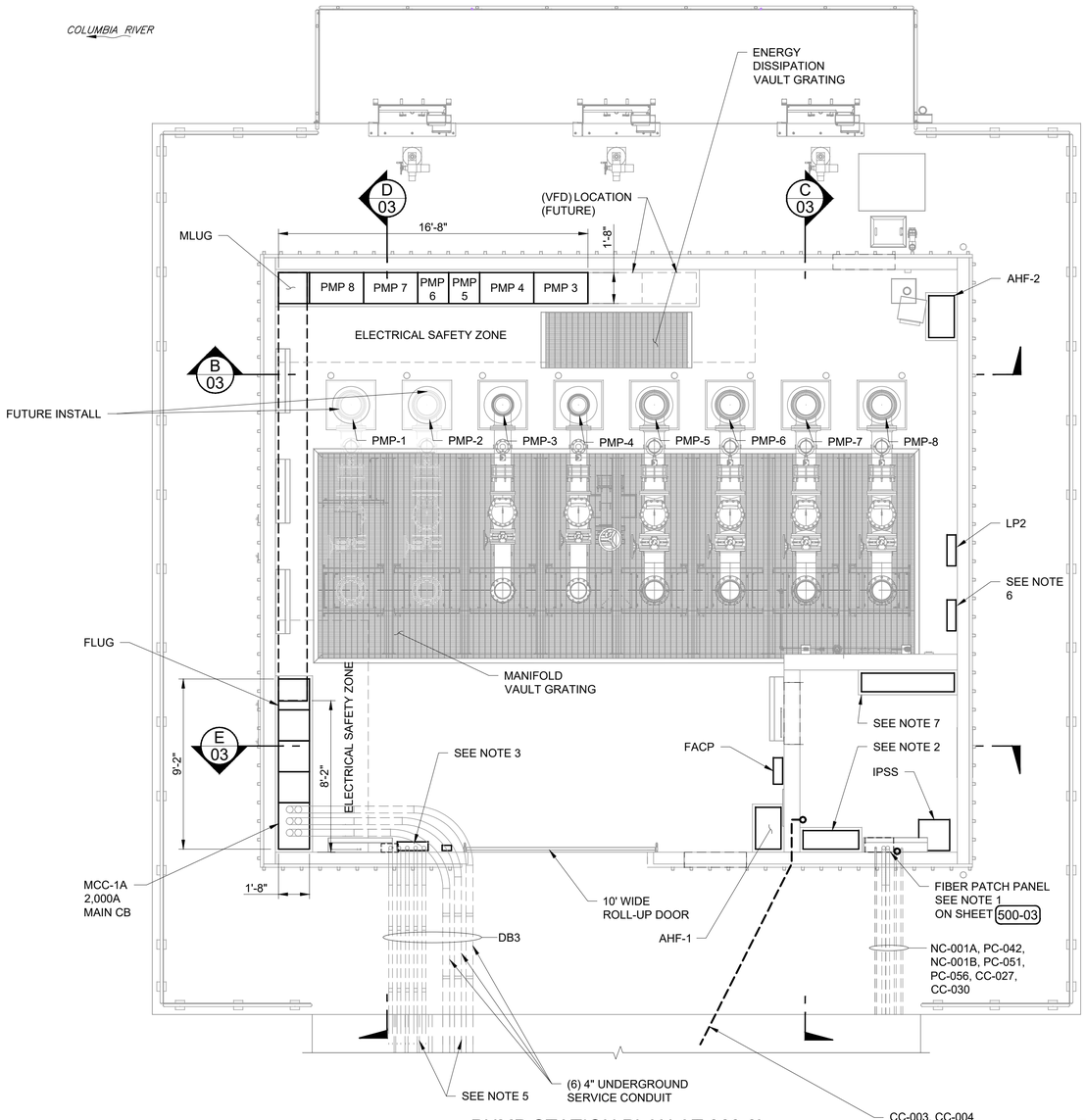
3"
2"
1"
0



CABLE TRAY PLAN

1/4" = 1'-0"

4' 0 4 8



PUMP STATION PLAN AT 369.0'

1/4" = 1'-0"

NOTES:

1. CABLE TRAY SHALL BE ALUMINUM LADDER TYPE, WITH A LOADING OF 75LBS/FT OR GREATER. SUPPORT CONDUIT IN ACCORDANCE WITH THE NEC AND MANUFACTURER'S INSTRUCTIONS.
   MINIMUM DIMENSIONS FOR TR1-N ALONG THE NORTH WALL ARE 24"W x 6"D.
   MINIMUM DIMENSIONS FOR TR1-1, 3, 5, AND 7 TO PUMP MOTORS ARE 12"W x 6"D.
2. CONTROL AND NETWORK RACK DIMENSIONS 6'-1/4"H X 3'W X 1'D.
3. MOUNT TRANSFORMER T1 AND PANEL LP1 AS SHOWN ON 500-03, SECTION E-02.
4. 2,000A, 600V, NON-SEGREGATED BUS DUCT, 12"H X 277"L X 18.5"D, WITH TWO VERTICAL BUS EXTENSIONS AT EACH END, 16"H X 18.5"D.
5. SEE TRENCH SECTION ON SHEET 230-02 SECTION D-01 AND CABLE SCHEDULE 530-04.
6. INSTALL (6'-0" AFF) PP-1 480V PANELBOARD 48"L X 20"W X 5.75"D.
7. INTAKE SCREEN PLC/HMI.
8. ACTIVE HARMONIC FILTER (AHF).

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91363PE
OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2025

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

ELECTRICAL - GENERAL ARRANGEMENT
PUMP STATION PLANS

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Project No.	Date Revised	Drawing No.
5002-001	10-17-25	500-02

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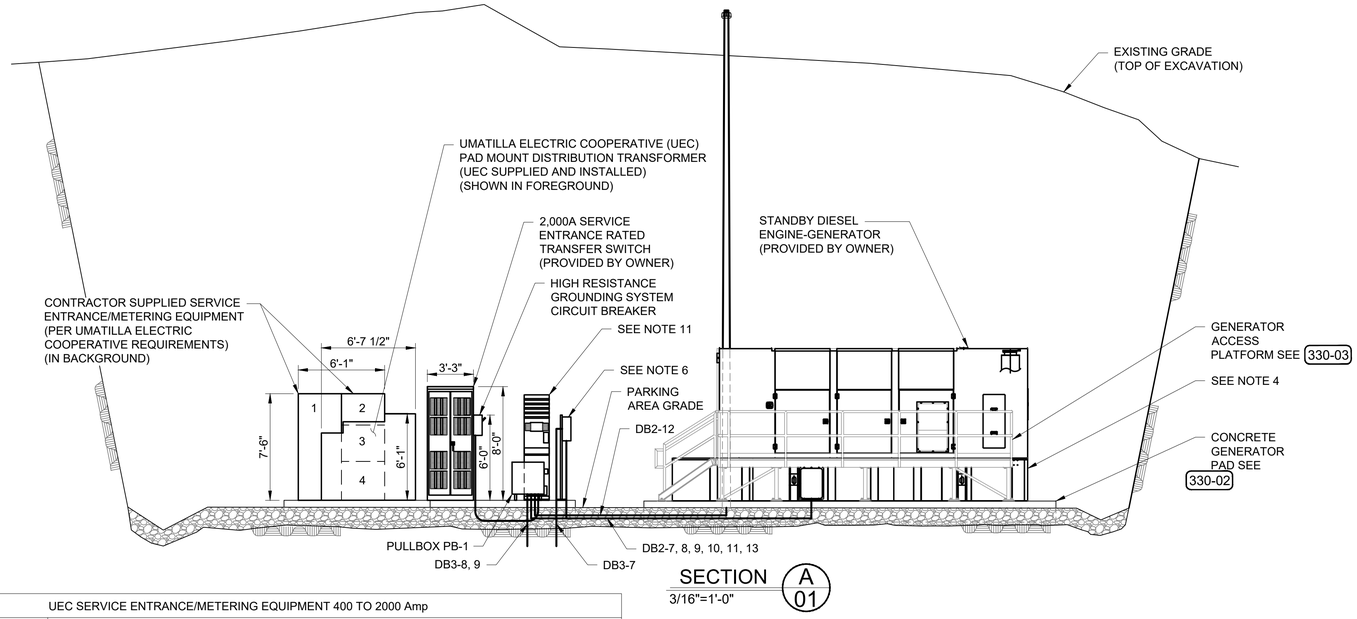
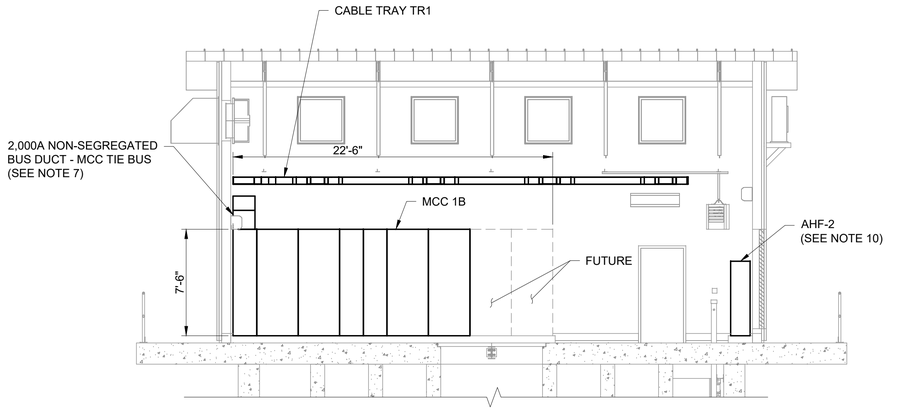
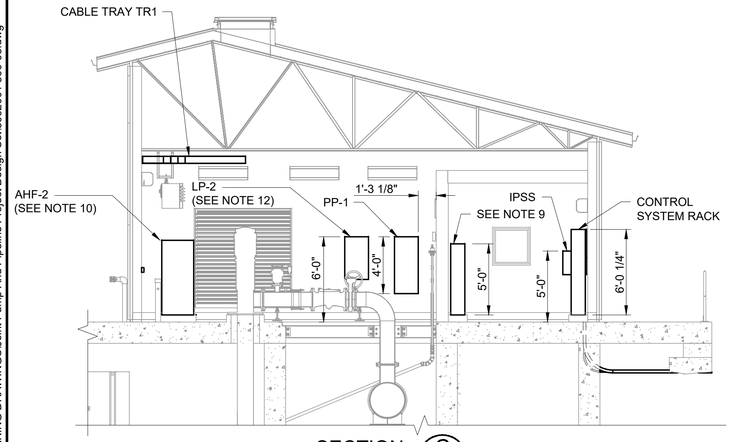


SECTION A 01
3/16"=1'-0"

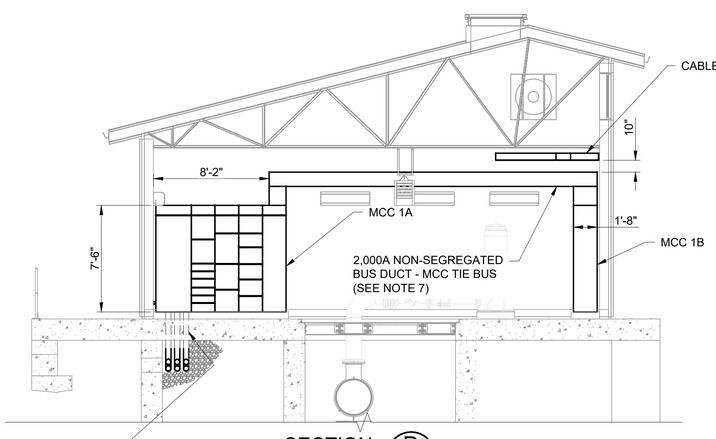
UEC SERVICE ENTRANCE/METERING EQUIPMENT 400 TO 2000 Amp		
SECTION	WIDTH	DESCRIPTION
1	36.52"	PROVIDE SWITCHBOARD PULL SECTION SERVICE ENTRANCE ACCORDING TO EUSERC PER UEC
2	36.52"	PROVIDE METERING SECTION ACCORDING TO EUSERC 347 PER UEC
3	36.52"	PROVIDE UNDERGROUND SWITCHBOARD PULL SECTION (2,000A). EUSERC 322 PER UEC
4	36.52"	PROVIDE UNDERGROUND LOAD PULL SECTION (2,000A). EUSERC 347 PER UEC



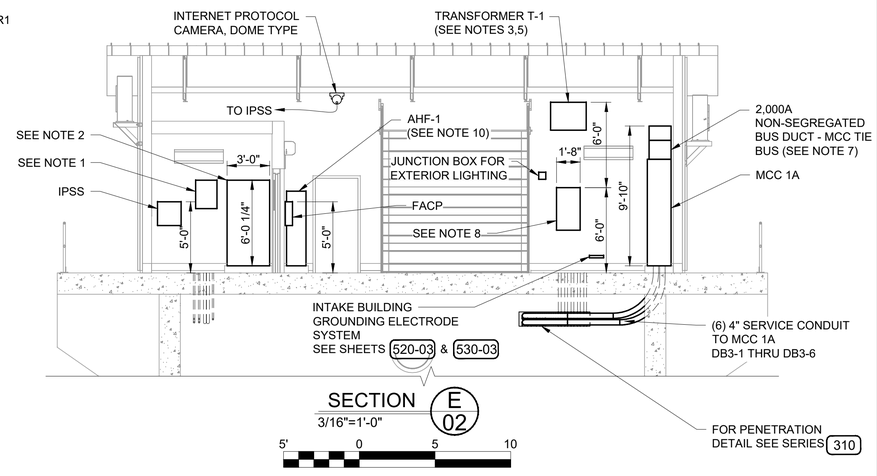
SECTION B 02
3/16"=1'-0"



SECTION C 02
3/16"=1'-0"



SECTION D 02
3/16"=1'-0"



SECTION E 02
3/16"=1'-0"

NOTES:
1. COMMUNICATION FIBER PATCH PANEL (FPP) 24"H X 18"W X 8"D.
2. CONTROL SYSTEM RACK (CSR) 72.3"H X 36"W X 12"D.
3. ROUTE T-1 PRIMARY FEEDER CONDUIT OVER AND DOWN TO MCC-1A.
4. DIESEL ENGINE-GENERATOR (E-G), TO BE SUPPLIED BY OWNER, INCLUDES UL142 BELLY STYLE FUEL TANK ALONG THE E-G FRAME. E-G SHALL BE INSTALLED PER MANUFACTURER, AND ACCORDING TO NATIONAL, STATE, LOCAL FIRE PROTECTION STANDARDS AND US ARMY CORPS REQUIREMENTS.
5. TRANSFORMER, T-1, 75KVA, 480-120/208V, 3-PH, 4-W, WALLMOUNT, DRY TYPE, SIZE: 23.5"H X 30.08"W X 27.4"D, WEIGHT: 690LBS.
6. OWNER SUPPLIED E-G ACCESSORY LOAD CENTER 120V/208V, 1PH, 13"H X 9"W X 4"D, SHALL BE INSTALLED WITHIN CONTRACTOR SUPPLIED NEMA 4 ENCLOSURE AND MOUNTED NEXT TO HRG RESISTOR.
7. 2,000A, 600V, NON-SEGREGATED BUS DUCT, 12"H X 277"L X 18.5"D, WITH TWO VERTICAL BUS EXTENSIONS AT EACH END, 16"H X 18.5"D.
8. PANELBOARD LP-1, 36"H X 20"W X 5.75"D.
9. INTAKE SCREEN CONTROL PANEL PLC/HMI.
10. ACTIVE HARMONIC FILTERS (AHF-1 & 2), FLOOR MOUNTED: 65"H X 27"W X 17.5"D.
11. NEMA 3R HIGH RESISTANCE GROUNDING RESISTOR MOUNTED TO CONCRETE PAD: 89"H X 21"W X 21"D.
12. PANELBOARD LP-2, 36"H X 20"W X 5.75"D.
13. FEEDER CIRCUIT CONDUIT FOR E-G ACCESSORY LOAD CENTER.
14. PARKING LOT AREA LUMINAIRE, B-01, 35'-0" STEEL, SQUARE TAPERED POLE, 4'-0" ARM.
15. INTERNET PROTOCOL SURVEILLANCE SYSTEM (IPSS).

REGISTERED PROFESSIONAL ENGINEER
91363PE
DIGITALLY SIGNED
OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2027

No.	Revision	Date	Drawn	Checked
1	ISSUED FOR BID	05-20-26	BJL	MTD
0	ISSUED FOR BID	10-17-25	BJL	MTD

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
IAA	BJL	MTD	5002-001	05-20-26	500-03

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

ELECTRICAL - GENERAL ARRANGEMENT SECTIONS

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3"
2"
1"
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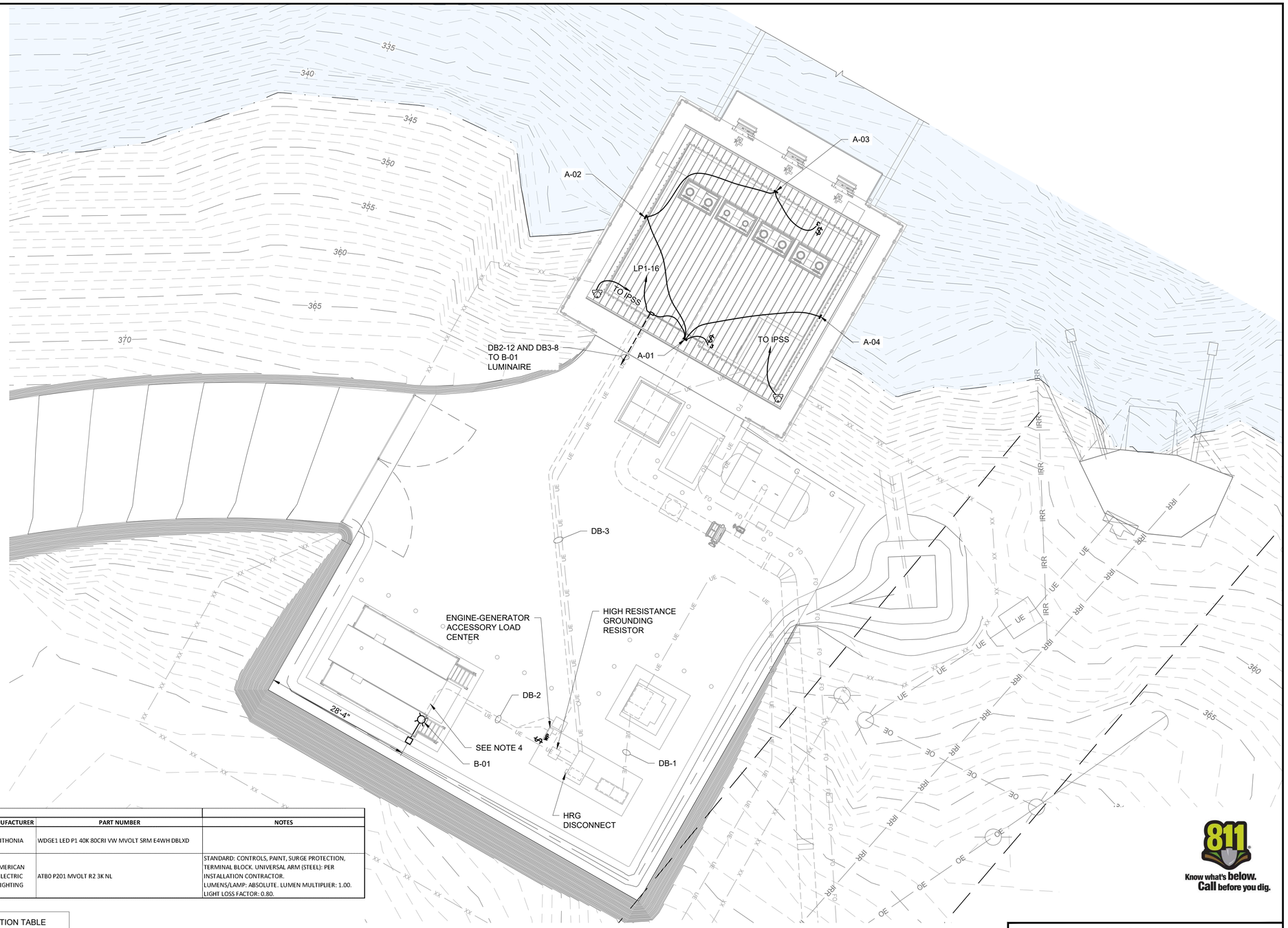
22x34 = FULL SCALE



NOTES

1. LIGHTING CALCULATION PERFORMED ACCORDING TO NESC 2020 TABLE 111-1 FOR ILLUMINATION LEVEL GENERATING STATION (EXTERIOR) AREAS OCCUPIED INFREQUENTLY.
2. PVC SCHEDULE 40 CONDUIT WILL BE INSTALLED UNDERGROUND A MIN OF 24" DEEP USE THE ELECTRICAL TRENCH TO RUN THE CONDUIT FROM THE PANELBOARD LP-1 LOCATED IN THE PUMP STATION. SEE TRENCH DETAIL SHEET IN 230-02, AND CONDUIT LIST, 540 SERIES.
3. CONTRACTOR SHALL FOLLOW THE CITY OF UMATILLA STANDARDS TO INSTALL LIGHT POLE MOUNTED 35' ABOVE GROUND FOR AREAS OCCUPIED INFREQUENTLY.
4. POLE MOUNTED LUMINAIRE B-01, FED FROM LP1 (CIRCUIT LP1-38 AND WEATHER PROOF/VANDALISM RESISTANT SWITCH.
5. B-01 LUMINAIRE POLE, 35'-0" HIGH, STEEL (11GA), TAPERED SQUARE TUBING, EXTERNAL HINGED W/WINCH, 4'-0" ARM, CITY APPROVED COLOR, HAND HOLE W/COVER.
6. INTERNET PROTOCOL SURVEILLANCE SYSTEM (IPSS) OUTDOOR DOME SECURITY CAMERAS, LOCATION AND NUMBER AS APPROVED BY OWNER.

EXTERIOR LIGHTING SCHEDULE								
ITEM	QTY	DESCRIPTION	LAMP	LUMENS/LAMP	TOTAL VA	MANUFACTURER	PART NUMBER	NOTES
A	4	WDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 4000K, 80CRI, VISUAL COMFORT WIDE OPTIC, MULTIVOLT, EMERGENCY BATTERY BACKUP, SURFACE MOUNTING BRACKET, BLACK FINISH, 10 WATTS	LED	1,229	9.84	LITHONIA	WDGE1 LED P1 40K 80CRI VW MVOLT SRM E4WH DBLXD	
B	1	AUTOBAHN LED ROADWAY, LED PERFORMANCE PACKAGE, MULTIVOLT, ROADWAY TYPE II, 3000K, 70 CRI, NEMA LABEL, 3-PIN NEMA PHOTOCELL RECEPTACLE, GRAY, STANDARD SURGE PROTECTION, TERMINAL BLOCK.	LED	5,369	36.00	AMERICAN ELECTRIC LIGHTING	ATB0 P201 MVOLT R2 3K NL	STANDARD: CONTROLS, PAINT, SURGE PROTECTION, TERMINAL BLOCK. UNIVERSAL ARM (STEEL): PER INSTALLATION CONTRACTOR. LUMENS/LAMP: ABSOLUTE. LUMEN MULTIPLIER: 1.00. LIGHT LOSS FACTOR: 0.80.

LEGEND

- NEW LIGHT FIXTURE
- INTERNET PROTOCOL CAMERA, DOME TYPE
- NEW CONDUIT
- UE — UE — NEW UNDERGROUND ELECTRIC
- FO — FO — NEW UNDERGROUND FIBER OPTIC
- XX — XX — NEW SECURITY FENCE
- G — G — NEW VEHICULAR GUARDRAIL
- PROPERTY LINE
- WATERLINE
- OE — OE — EXISTING OVERHEAD ELECTRIC
- UE — UE — EXISTING UNDERGROUND ELECTRIC
- IRR — IRR — EXISTING PIPELINE

CALCULATION TABLE	
AVERAGE	0.5 FC
MAXIMUM	0.8 FC
MINIMUM	0.1 FC
MAX/MIN	8.0:1
AVERAGE/MIN	5.0:1

LIGHTING SITE PLAN

1" = 10'

10' 0 10' 20'

SCALE IN FEET

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OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2027

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1	ISSUED FOR BID	05-20-26	BJL	MTD
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Project No.	Date Revised	Drawing No.
5002-001	05-20-26	510-01

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

ELECTRICAL - LIGHTING
INTERNET PROTOCOL SURVEILLANCE SYSTEM SITE PLAN

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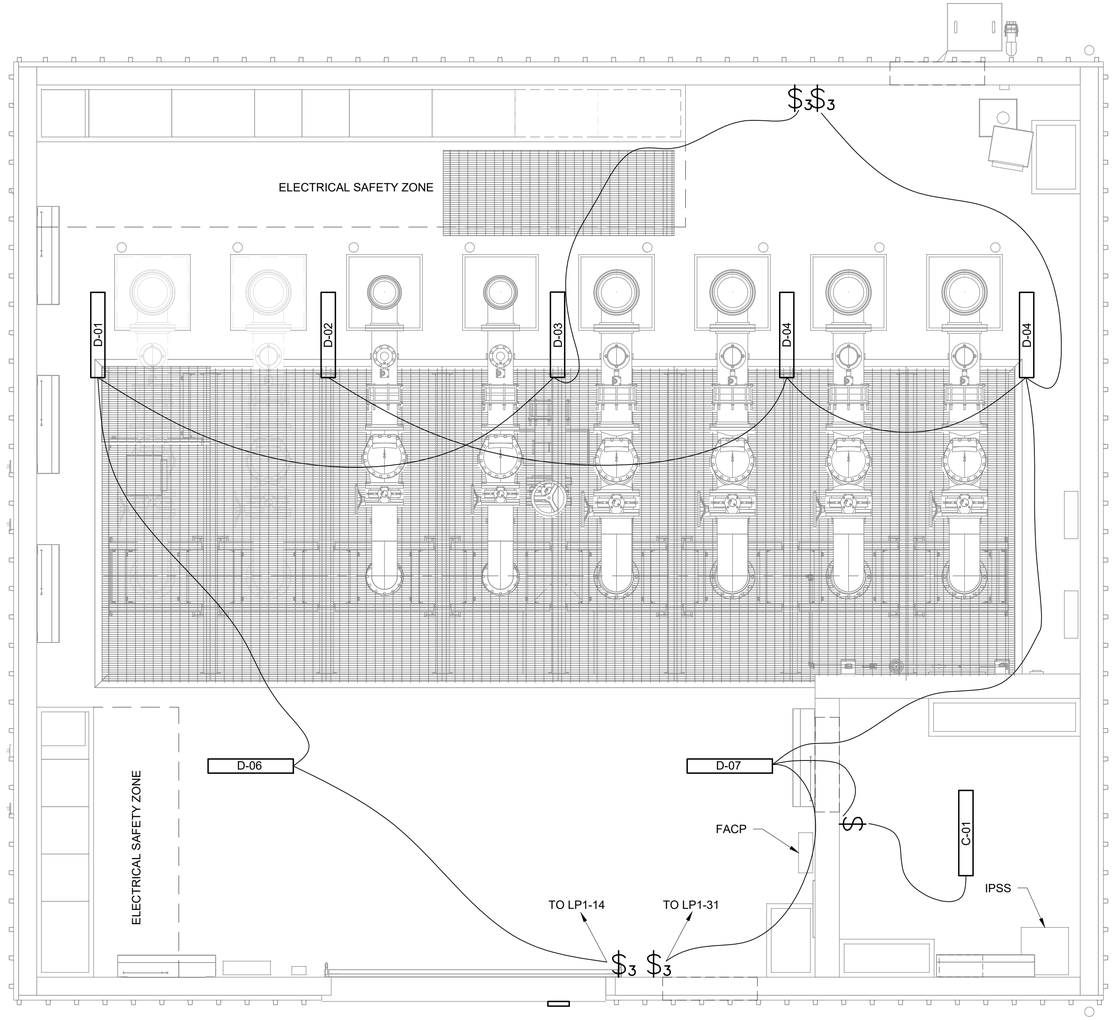
3"
2"
1"
0
22x34 = FULL SCALE



PUMP STATION PLAN

3/8" = 1'-0"

2' 0 2 4 6

LIGHTING NOTES:

1. THE REQUIREMENT FROM NESC 2017, TABLE 111-1 "ILLUMINATION LEVELS," REQUIRE A MINIMUM OF 10 FC FOR CRITICAL AREAS OCCUPIED INFREQUENTLY, SUCH AS THE PUMP STATION.
2. THE ILLUMINATION MODEL PARAMETERS THAT WERE USED IN THE ILLUMINATION STUDY ARE LISTED BELOW:
   A. WORKPLANE OF 2'.
   B. LIGHT LOSS FACTOR OF 0.75.
   C. REFLECTANCE:
      I. CEILING - 50%
      II. WALLS - 30%
      III. FLOORS - 20%
      IV. INTERIOR EQUIPMENT - 30%
3. INSTALL LUMINAIRES ACCORDING TO MANUFACTURER CUT-SHEET.
4. THE LUMINAIRES AND THEIR RESPECTIVE LOCATIONS PROVIDE AN AVERAGE OF 10 FOOTCANDLES (FC). VISUAL LIGHTING 2020 WAS USED TO PERFORM AN ILLUMINATION STUDY THIS SHEET.
5. BUILDING EXTERIOR LUMINAIRES SHALL BE CENTERED HORIZONTALLY ON BUILDING. ALL LUMINAIRES EXCEPT THE ONE LOCATED ABOVE THE ROLL-UP DOOR SHALL BE LOCATED 10' OFF THE FINISHED SURFACE.
6. THE LOCATION WAS CONSIDERED COMPARABLE TO SUBSTATION IN REMOTE AREAS (SUCH AS FENCE OR OPEN YARD) IN THE NESC 2017 TABLE 111-1 "ILLUMINATION LEVELS," REQUIRING A MINIMUM ILLUMINATION LEVEL OF 0.2 FC. THE LUMINAIRES SHOWN IN THE LOCATIONS HERE PROVIDE AN AVERAGE OF 1.2 FC AND A MINIMUM AVERAGE OF 0.2FC. ACCORDING TO AN ILLUMINATION STUDY PERFORMED USING VISUAL LIGHTING 2020.

ILLUMINATION STUDY RESULTS
*NESC MINIMUM OF 10 FC

	PUMP ROOM	CONTROL/ NETWORKING ROOM
AVERAGE*	10.1 FC	10.1 FC
AVERAGE/MIN	3.4 : 1	1.5 : 1
MAX/MIN	6.1 : 1	2.1 : 1

BUILDING INTERIOR LIGHTING SCHEDULE

ITEM	QTY	DESCRIPTION	LAMP	LUMENS/LAMP	TOTAL VA	MANUFACTURER	PART NUMBER	NOTES
C	1	CLX LED LINEAR 36" 2,250 LUMENS, PREMIUM EFFICIENCY, LESS LOUVER, WIDE DIFFUSE LENS, GENERAL DISTRIBUTION, MVOLT (120-277VAC INPUT), 0-10V DIMMING, 4000CCT, 80CRI, 15.5 WATT	LED LINEAR	1965	15.5	LITHONIA	CLX L36 2250LM HEF WDL MVOLT GZ10 40K 80CRI	MOUNT LUMINAIRE FROM CEILING, OR SUSPEND AT APPROXIMATELY 8.5 FEET ABOVE FINISHED FLOOR.
D	7	CLX LED LINEAR 36" 3,000 LUMENS, PREMIUM EFFICIENCY, LESS LOUVER, WIDE DIFFUSE LENS, GENERAL DISTRIBUTION, MVOLT (120-277 VAC INPUT), 0-10V DIMMING, 4000CCT, 80CRI, 20 WATT	LED LINEAR	2554	140	LITHONIA	CLX L36 3000LM HEF WDL MVOLT GZ10 40K 80CRI	SUSPEND LUMINAIRES BELOW TRUSSES AND CABLE TRAYS, AT APPROXIMATELY 9.5 FEET AFF.

REGISTERED PROFESSIONAL ENGINEER
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OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
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3"
2"
1"
0
22x34 = FULL SCALE

NOTES:

1. THE REQUIREMENT FROM NFPA 101-2021 LIFE SAFETY CODE CHAPTER 7 SECTION 9, "EMERGENCY LIGHTING," ARE LISTED BELOW:

   A. EMERGENCY LIGHTING SHALL BE PROVIDED ALONG THE PATH OF EGRESS FOR AT LEAST 1.5 HOURS IN THE EVENT THE NORMAL LIGHTING FAILS.

   B. EMERGENCY ILLUMINANCE SHALL INITIALLY HAVE AN AVERAGE OF 1 FOOTCANDLE (FC) WITH NO POINT LESS THAN 0.1 FC AT FLOOR LEVEL.

   C. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE NOT LESS THAN AN AVERAGE OF 0.6 FC WITH NO POINT LESS THAN 0.06 FC AT THE END OF 1.5 HOURS.

   D. THE MAXIMUM-TO-MINIMUM ILLUMINATION SHALL NOT EXCEED A RATIO OF 40:1.

2. INSTALL LUMINARIES ACCORDING TO THE MANUFACTURERS CUT-SHEET.

3. VISUAL LIGHTING 2020 WAS USED TO PERFORM AN ILLUMINATION STUDY. THE EMERGENCY LUMINARIES AND THEIR RESPECTIVE LOCATIONS MET THE NFPA REQUIREMENTS LISTED ABOVE. THE LIGHT LOSS FACTOR WAS MODELED AT 0.80. STUDY RESULTS ARE PROVIDED THIS SHEET.

4. FIRE ALARM SYSTEM:

   A. SHALL BE FURNISHED BY CONTRACTOR AND INCLUDES THE INSTALLATION, AND CONNECTION OF THE FIRE ALARM EQUIPMENT REQUIRED TO FORM A COMPLETE COORDINATED CONVENTIONAL CONTROL SYSTEM THAT IS READY FOR OPERATION. SHALL BE IN ACCORDANCE WITH CRITERIA OF THE AUTHORITY(IES) HAVING JURISDICTION (AHJ), NFPA, AND BUILDING CODE.

   B. SHALL BE DESIGNED BY A NICET LEVEL 3 OR 4 FIRE ALARM TECHNICIAN. IF REQUIRED BY STATE REGULATIONS, A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OREGON SHALL SEAL DRAWINGS SUBMITTED TO THE AHJ.

   C. SHALL INCLUDE, BUT NOT BE LIMITED TO, ALARM INITIATING DEVICES, ALARM NOTIFICATION APPLIANCES, CONTROL PANEL, AUXILIARY CONTROL DEVICES, ANNUNCIATORS, POWER SUPPLIES, ETHERNET AND/OR DIGITAL ALARM COMMUNICATIONS TO CENTRAL STATIONS AND WIRING AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.

   D. SHALL COMPLY WITH REQUIREMENTS OF NFPA STANDARD NO. 72 FOR PROTECTED PREMISES SIGNALING SYSTEMS EXCEPT AS MODIFIED AND SUPPLEMENTED BY THIS SPECIFICATION. THE SYSTEM FIELD WIRING SHALL BE SUPERVISED EITHER ELECTRICALLY OR BY SOFTWARE-DIRECTED POLLING OF FIELD DEVICES.

   E. SHALL BE MANUFACTURED BY AN ISO 9001 CERTIFIED COMPANY AND MEET THE REQUIREMENTS OF BS EN9001: ANSI/ASQC Q9001-1994.

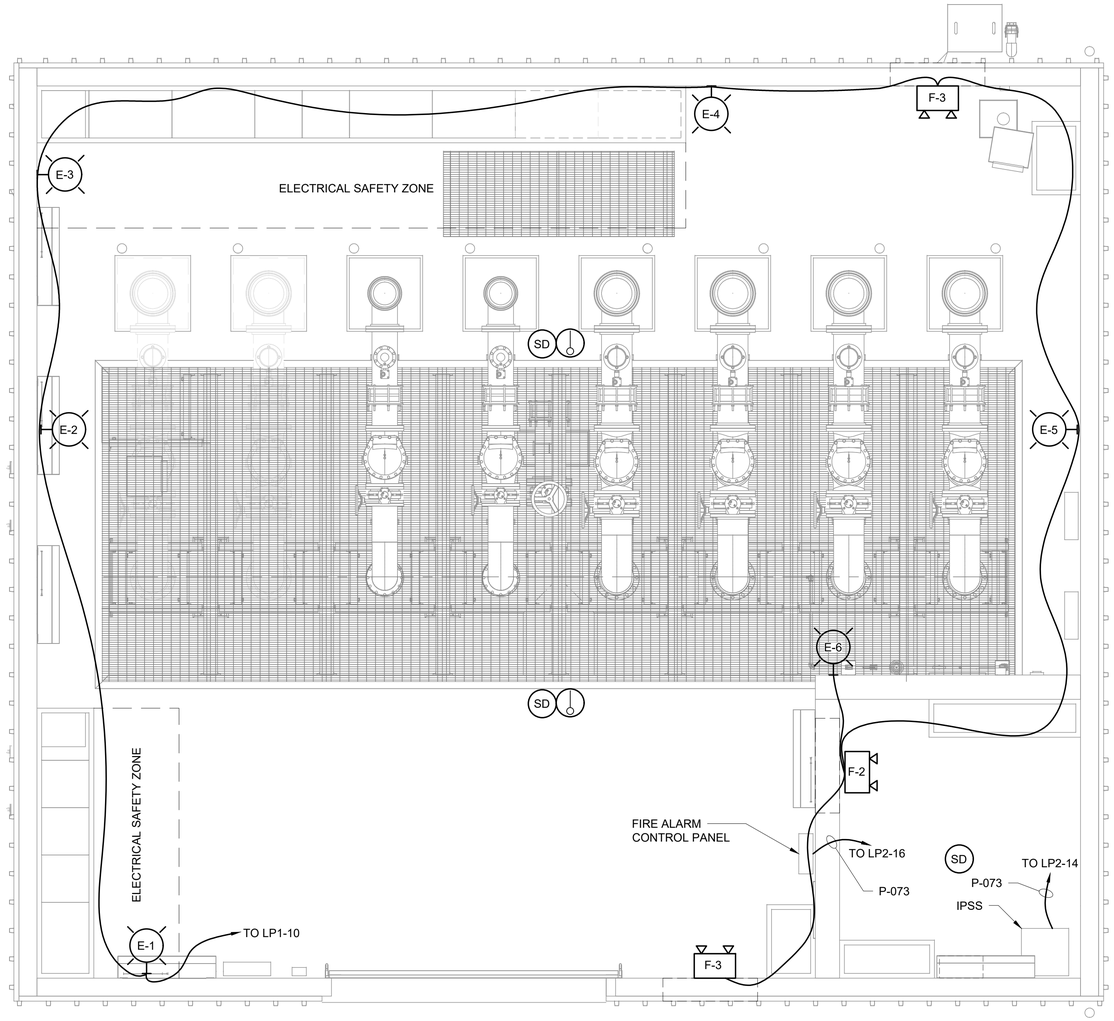
   F. THE SYSTEM AND ITS COMPONENTS SHALL BE UNDERWRITERS LABORATORIES, INC. LISTED UNDER THE APPROPRIATE UL TESTING STANDARD AS LISTED HEREIN FOR FIRE ALARM APPLICATIONS AND SHALL BE INSTALLED IN COMPLIANCE WITH THE UL LISTING.

   G. WHERE SYSTEM REQUIREMENTS DESCRIBED HERE EXCEED THOSE OF THE AHJ AND/OR NFPA, MEET THE REQUIREMENTS OF BOTH.

   H. THE FIRE ALARM CONTROL PANEL (FACP) AND PERIPHERAL DEVICES SHALL BE MANUFACTURED 100% BY A SINGLE U.S. MANUFACTURER (OR DIVISION THEREOF).

   I. ACCEPTABLE MANUFACTURER/MODEL FACP: NOTIFIER BY HONEYWELL, SFP-5UDC, FIVE ZONE CONVENTIONAL FIRE ALARM CONTROL PANEL.

   J. THE INSTALLING COMPANY SHALL EMPLOY NICET (MINIMUM LEVEL II FIRE ALARM TECHNOLOGY) TECHNICIANS ON SITE TO GUIDE THE FINAL CHECK-OUT AND TO ENSURE THE SYSTEMS INTEGRITY.



PUMP STATION PLAN

3/8" = 1'-0"

2' 0 2 4 6

ILLUMINATION STUDY RESULTS

MEASUREMENT	PUMP ROOM	CONTROL/ NETWORKING ROOM	NFPA 101 REQUIREMENTS
AVERAGE	1.0 FC	1.1 FC	> 1.0 FC
AVERAGE/MIN	3.3 : 1	3.7 : 1	NA
MINIMUM	0.3 FC	0.3 FC	≥ 0.1 FC
MAX/MIN	39.0 : 1	16.3 : 1	< 40 : 1

EMERGENCY LIGHTING SCHEDULE

ITEM	QTY	DESCRIPTION	LAMP	LUMENS/ LAMP	TOTAL VA	MANUFACTURER	PART NUMBER	NOTES
E	6	INDUSTRIAL STEEL EMERGENCY LIGHT, 120V OR 277V INPUT, CURRENT-LIMITING CHARGER, 23 WATT INPUT	TWO, ADJUSTABLE METAL LAMP HEADS WITH 12 WATT PAR36 STYLE HALOGEN LAMPS	80	138	LITHONIA	ELTC6100	WALL MOUNTED 7 FEET ABOVE FINISHED FLOOR
F	3	QUANTUM LHQM LED EXIT-UNIT COMBO LIGHTING & EXIT SIGN, RED/GREEN, HIGH OUTPUT NI-CAD BACKUP BATTERY, 4.3 WATT INPUT	TWO, QUANTUM LED SERIES 1.5 WATT/9.6V WHITE LED	80	12.9	LITHONIA	LHQM LED	WALL MOUNTED 7 FEET ABOVE FINISHED FLOOR

REGISTERED PROFESSIONAL ENGINEER
91363PE
OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2025

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

ELECTRICAL - LIGHTING
EMERGENCY/FIRE SYSTEM PUMP STATION PLAN

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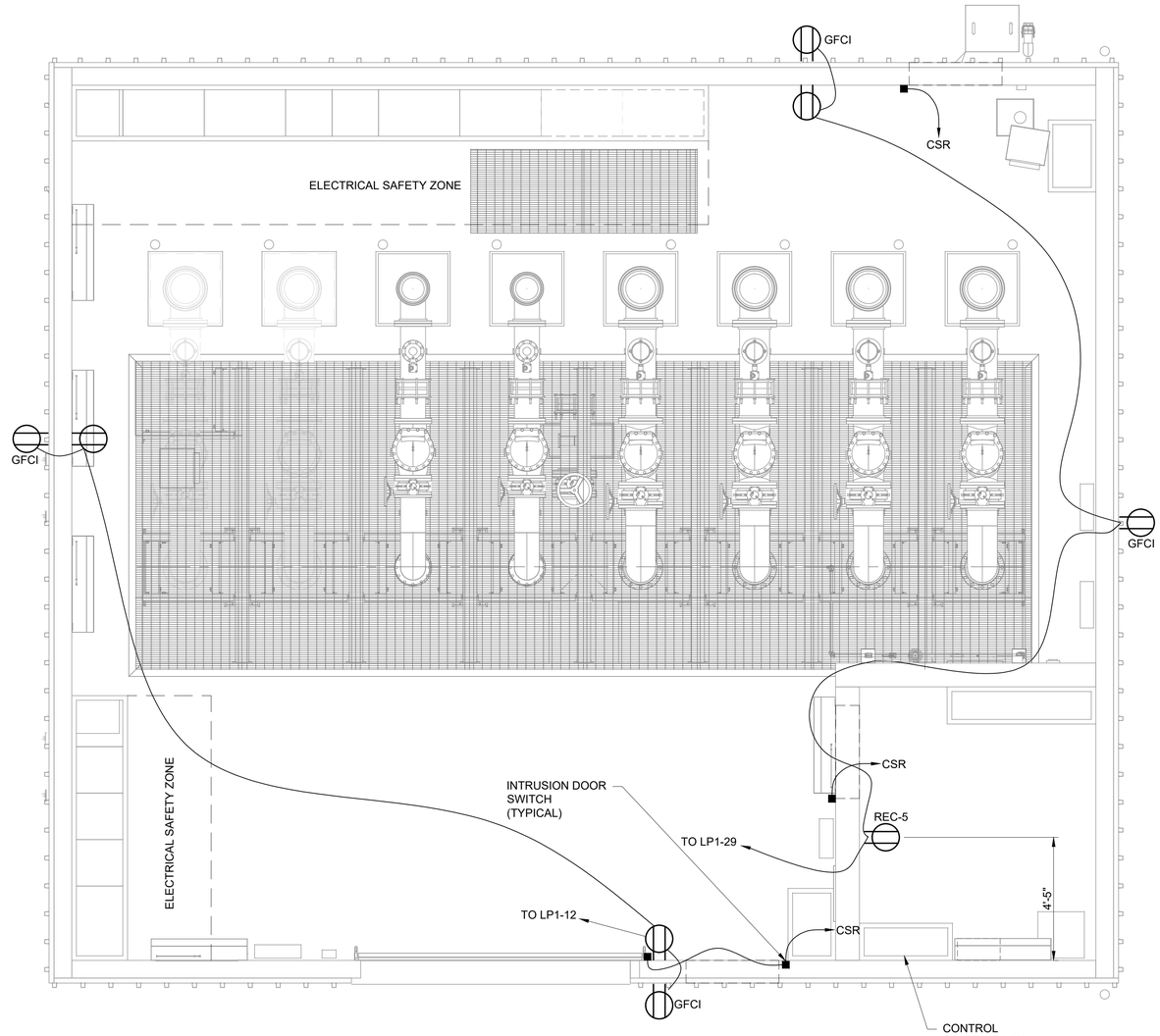
3"
2"
1"
0
22x34 = FULL SCALE



RECEPTACLE WIRING DIAGRAM

3/8" = 1'-0"

2' 0 2 4 6

NOTES:

1. CONVENIENCE RECEPTACLES SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS.
2. ALL EXTERIOR RECEPTACLES SHALL BE WEATHERPROOF, VANDALISM RESISTANT, AND MOUNTED 4' ABOVE FLOOR OR GRADE. INDOOR RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR.
3. RECORDS ROOM, BOTH PUMP STATION MANDOORS, AND ROLL-UP GARAGE DOOR SHALL HAVE DOOR INTRUSION SWITCHES INSTALLED TO MONITOR STATION ACCESS. LOW VOLTAGE SIGNAL CABLING SHALL BE ROUTED BACK TO CSR FOR PLC SYSTEM MONITORING.

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UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

ELECTRICAL - WIRING, RECEPTACLE AND INTRUSION - PUMP STATION PLAN

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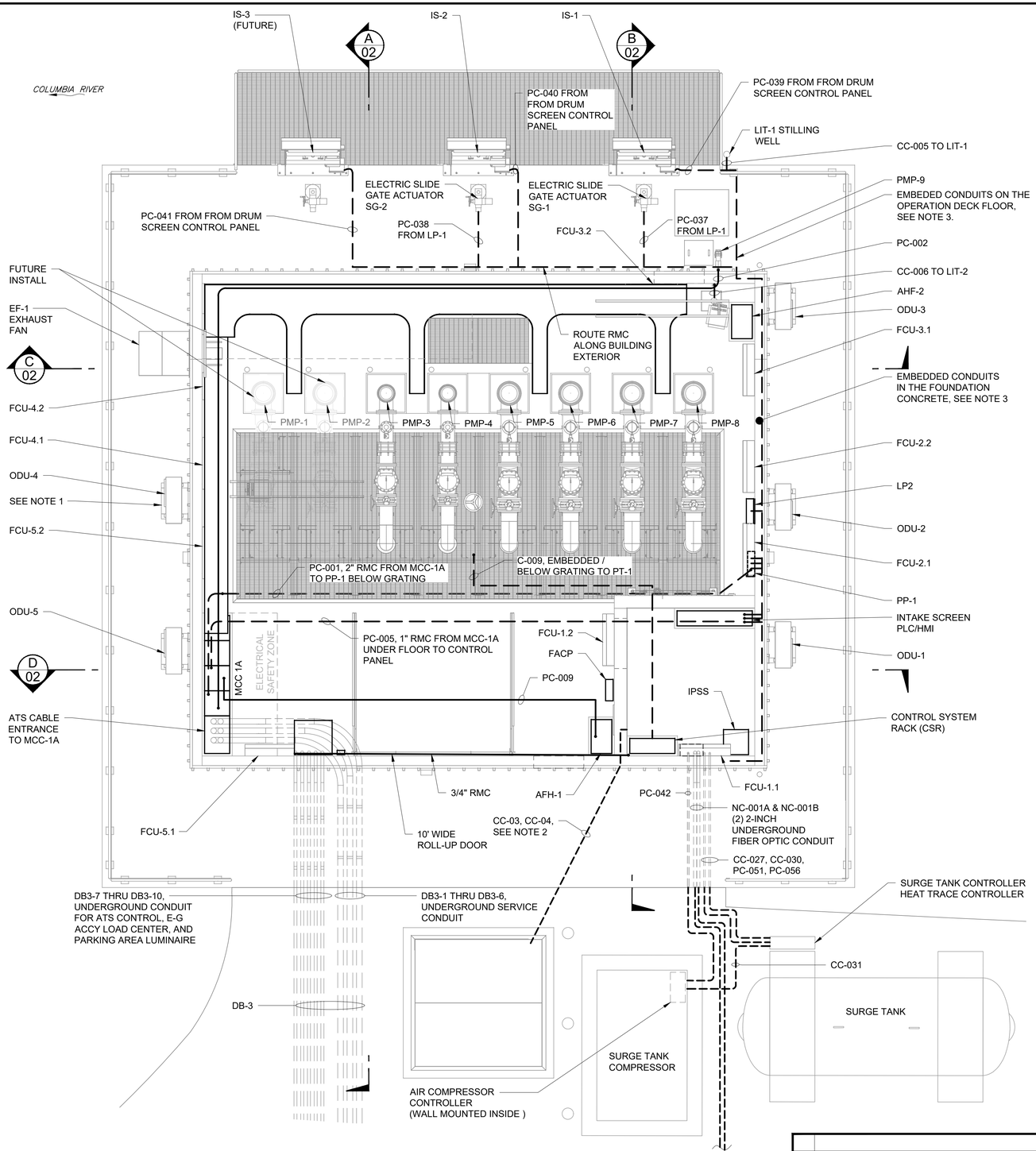

PUMP STATION CONDUIT ROUTING PLAN

1/4" = 1'-0"

4' 0 4 8

NOTES:

1. ALL HVAC UNITS, ODU'S AND FCU'S (1 THROUGH 5), TO BE POWERED FROM LP-1 OR LP-2 PANELBOARDS.
2. QTY 2, 3/4" PVC CONDUIT UNDERGROUND FROM FLOW METER VAULT AND UP TO THE COMMUNICATION ROOM WALL, SIGNALS FROM THE ULTRASONIC FLOWMETER (FM-1) SENSORS TO THE ULTRASONIC FLOWMETER TRANSMITTER.
3. CONDUITS EMBEDDED IN CONCRETE SHALL BE PLACED AT CENTER OF CONCRETE DEPTH. ADJACENT CONDUITS EMBEDDED IN CONCRETE SHALL BE SPACED APART A MINIMUM OF 3 TIMES CONDUIT DIAMETER.

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91363PE
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OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2027

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

ELECTRICAL - CONDUIT ROUTING PLAN

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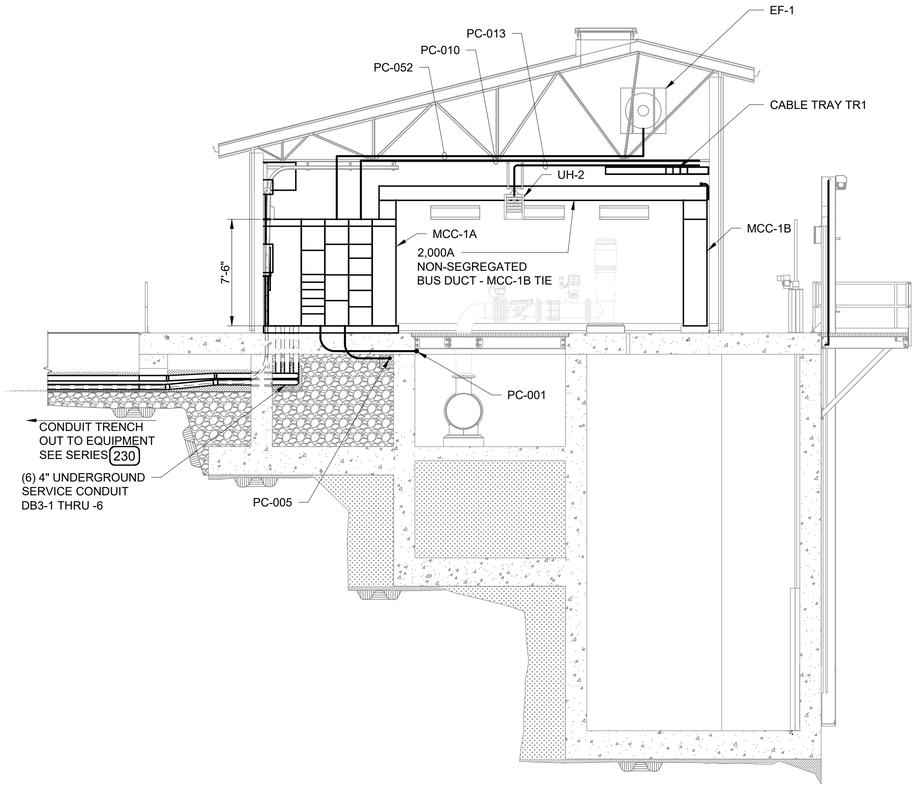
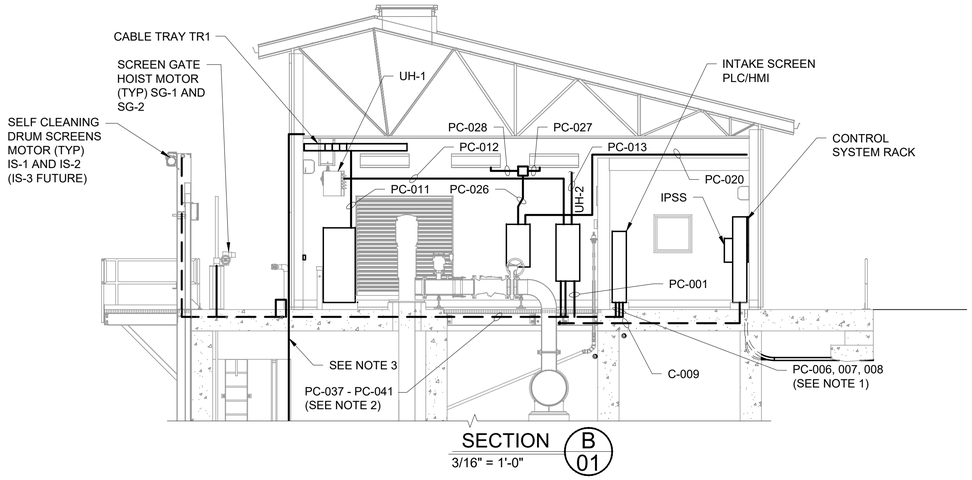
22x34 = FULL SCALE
3"
2"
1"
0

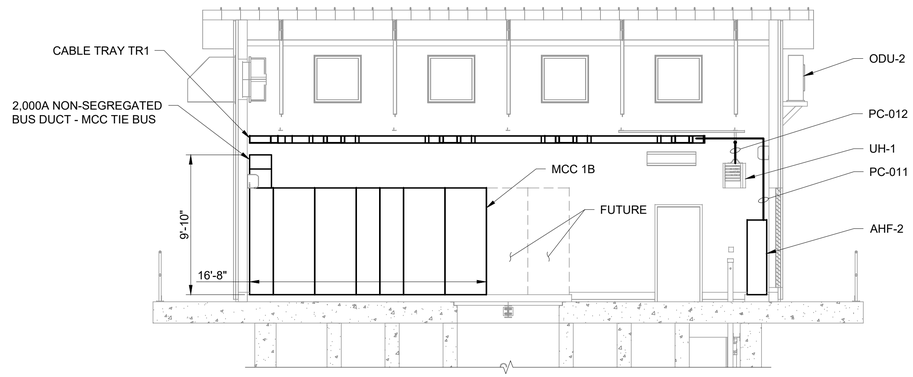


SECTION A
3/16" = 1'-0"

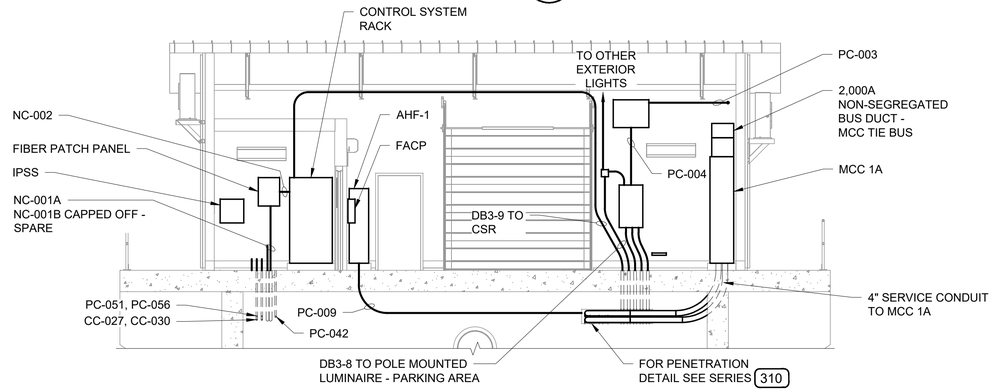
5' 0 5 10



SECTION B
3/16" = 1'-0"



SECTION C
3/16" = 1'-0"



SECTION D
3/16" = 1'-0"

NOTES:

1. EMBEDED CONDUIT RUN THROUGH THE EAST WALL FROM SCREEN DRUM CONTROL PANEL TO (IS-1,IS-2 AND IS-3).
2. EMBEDED CONDUIT TO SCREEN GATE HOISTMOTORS (SG-1,SG-2).
3. CONDUIT WILL RUN ON SURFACE WALL FROM MCC-1A ACROSS THE ROOM TO FEED THE SUBMERSIBLE PMP-9. SEE SHEET 520-01.
4. RUN CONDUIT PC-003 FROM MCC-1A TO TRANSFORMER T-1.

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OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

ELECTRICAL - CONDUIT ROUTING SECTIONS

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3"
2"
1"
0
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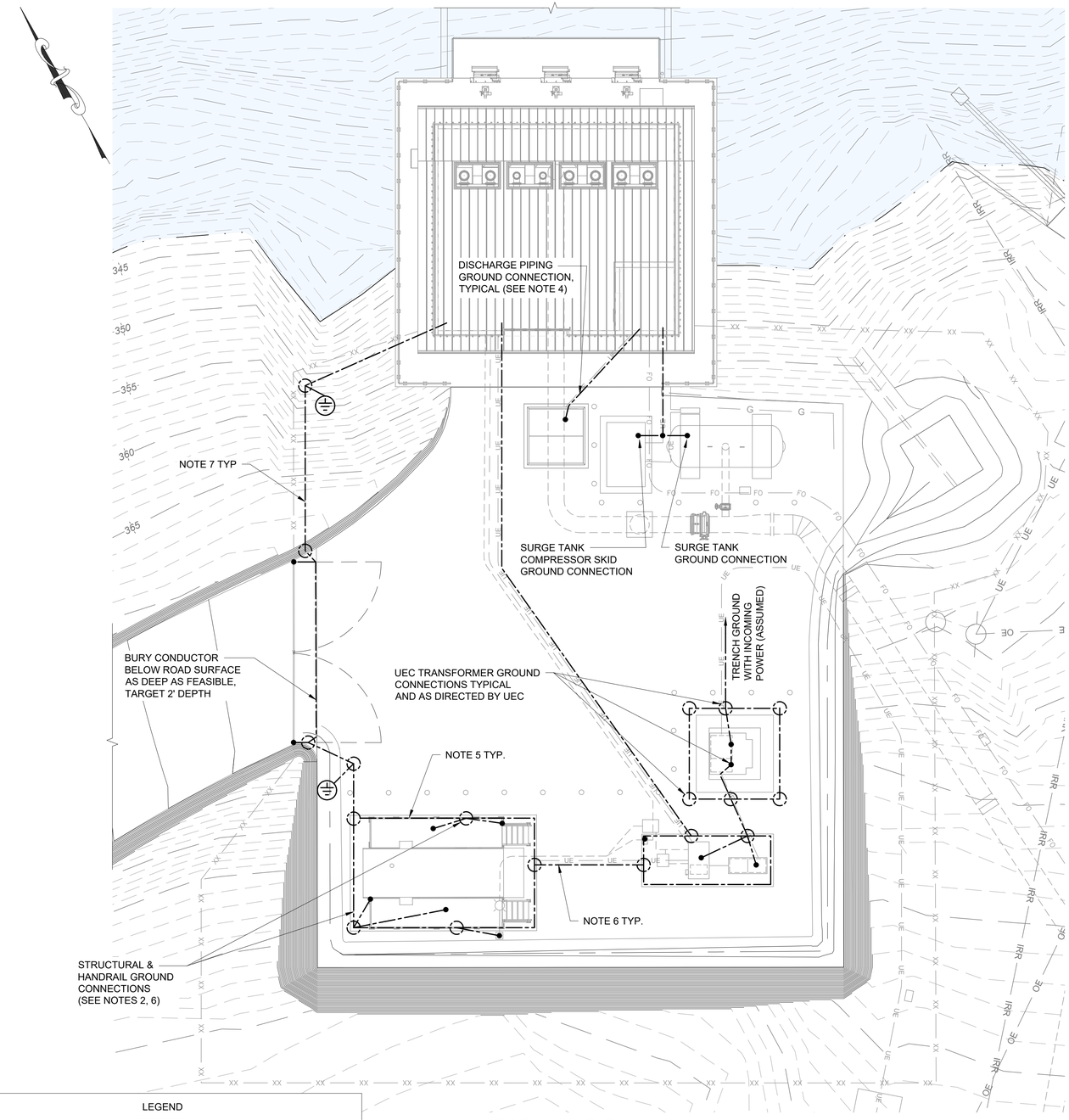
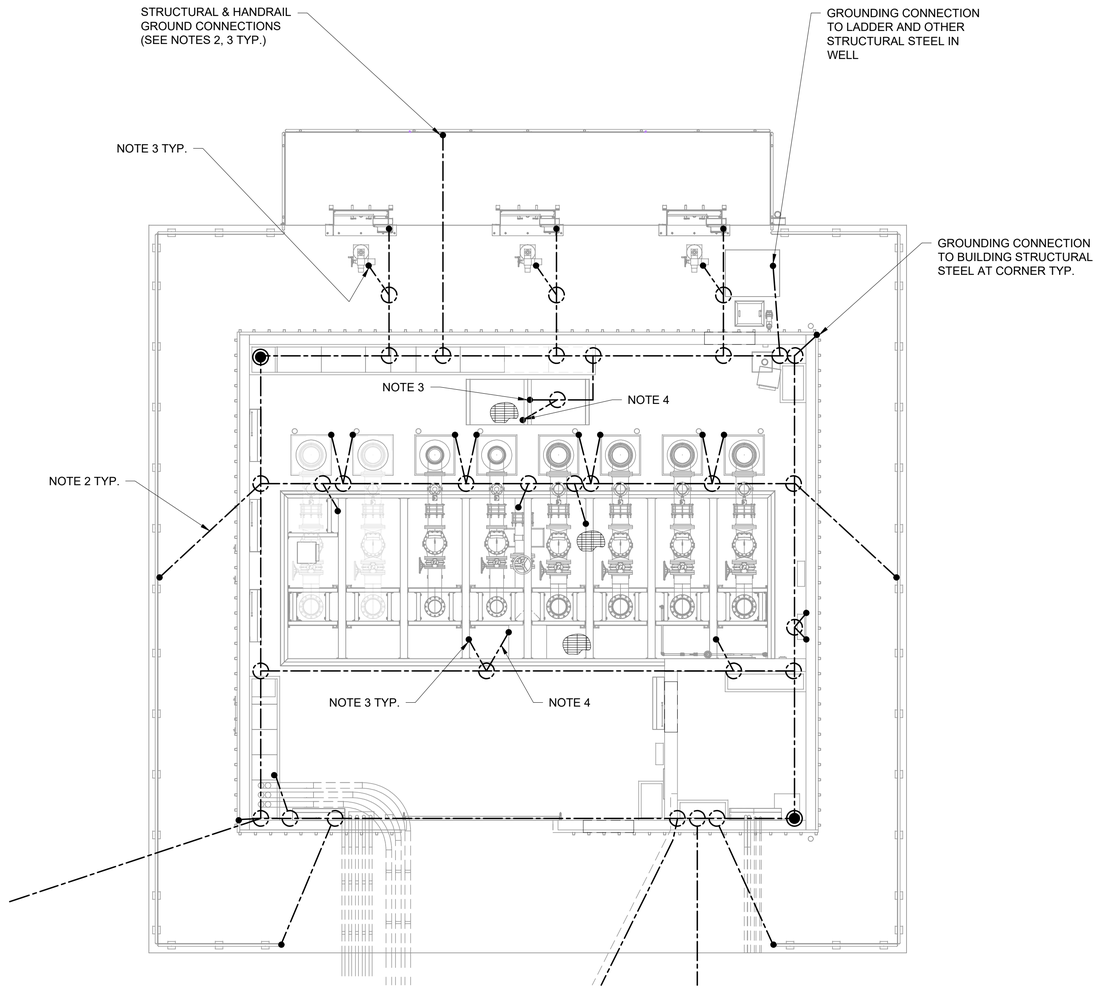


GROUNDING SITE PLAN

1" = 10'

10' 0 10' 20'

SCALE IN FEET



GROUNDING PUMP STATION PLAN

1" = 5'

5' 0 5' 10'

SCALE IN FEET

LEGEND

	NEW #4/0AWG BARE CU GROUND
	NEW LIGHT FIXTURE
	NEW CONDUIT
UE UE	NEW UNDERGROUND ELECTRIC
FO FO	NEW UNDERGROUND FIBER OPTIC
XX XX	NEW SECURITY FENCE
G G	NEW VEHICULAR GUARDRAIL
	PROPERTY LINE
	WATERLINE
OE OE	EXISTING OVERHEAD ELECTRIC
UE UE	EXISTING UNDERGROUND ELECTRIC
IRR IRR	EXISTING PIPELINE

LEGEND

	GROUNDING ELECTRODE (10' 3/4" ROD) INSTALLED IN TEST WELL
	GROUND CONNECTION JUMPER
	VERTICAL GROUND CONNECTION TO BUILDING UFER GROUND

NOTES:
1. FENCE POST GROUND. USE LISTED CLAMPS OR LUGS TO CONNECT POSTS TO GROUND.
2. GROUND TO HANDRAIL POST.
3. GROUND TO STRUCTURAL STEEL.
4. GROUND TO DISCHARGE PIPING.
5. GENERATOR MAINTENANCE PLATFORM SUPPORT COLUMN GROUND.
6. GROUND GRID CONDUCTOR IN TRENCH GROUND WITH CONDUIT.
7. CONCEAL CU CONDUCTOR BELOW SURFACE TO THE EXTENT POSSIBLE. WHERE CONDUCTOR IS NOT BURRIED, SUPPORT AT EACH FENCE POST (SUPPLEMENT WITH STRUT CHANNEL AS NEEDED).

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OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

ELECTRICAL - CONDUIT ROUTING
GROUNDING PLAN

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22x34 = FULL SCALE

UMATILLA ELECTRIC COOPERATIVE (UEC)
12.47kV FEEDER FOR 2,000A, 480/277V,
3-PHASE, 4-WIRE SERVICE

2.5 MVA, z% = 5.0-7.5%
UEC PAD MOUNT XFMR
12.470kV/480V
Δ/Y

UEC
UTILITY
METER

XXX:5

NOTE 2

SEE NOTE 1

P-001

OWNER PROVIDED:
CATERPILLAR C32, 1,250kW,
480/277V, 3-PH, 4-WIRE
STANDBY DIESEL
ENGINE-GENERATOR

STBY E-G

GROUND TO ATS -
EQUIPMENT
BONDING JUMPER

NEUTRAL
TO ATS

2,000AF
2,000AT
GENERATOR
CIRCUIT
BREAKER
(LSIG)

GROUND BUS

P-002

GROUND TO ATS - EQUIPMENT
BONDING JUMPER

ATS

TO STBY E-G
NEUTRAL

SPD

NEUTRAL BUS

P-003B

SEE NOTE 3

TO UEC XFMR - NEUTRAL

HIGH
RESISTANCE
GROUNDING
RESISTOR

HRG CIRCUIT BREAKER
250A FRAME, 600V, LSI
ELECTRONIC TRIP
(SEE NOTE 7)

P-003A

GROUND BUS

TO STBY E-G
CHASSIS GROUND

EQUIPMENT BONDING JUMPER
TO MCC-1A GROUND BUS

OWNER PROVIDED:
ASCO SERIES 300, 2,000A, 480/277V,
3PH, 4W (3-POLE & SOLID NEUTRAL BUS)
NEMA 3R, SERVICE ENTRANCE RATED
AUTOMATIC TRANSFER SWITCH (ATS).
NON-SEPARATELY DERIVED SYSTEM
HIGH RESISTANCE GROUNDING

P-003

SEE NOTE 6

MCC-1A

MCC-1A

2,000A BUS 480V, 3W, 65kAIC, NEMA 1

NOTE 5

P-065

FLUG

G6C
FRAME
60AT

SPD

2,000 AF LSIG
2,000AT

125AF
125AT

125 AF
15AT

VFD
POWERFLEX
755TS
W/TOTAL
FORCE
AC
DRIVE
HEAVY
DUTY

125 AF
100AT

125 AF
40AT

125 AF
15AT

400AF (LSI)
300AT

400AF (LSI)
300AT

P-006

TRANSFORMER T-1
75KVA, 3PH
480V:120/208V, 3PH, 4W
Δ/Y

P-004 P-005 P-007 P-008 P-012 P-013 P-014

PP1

SEE
NOTE 4

LP-1

SEE
NOTE 4

LP-2

SCREEN CONTROL PANEL

P-009 P-010 P-011

IS-1
DRUM
SCREEN
1/2 HP

IS-2
DRUM
SCREEN
1/2 HP

IS-3
DRUM
SCREEN
(FUTURE)

EF-1
EXHAUST FAN
5 HP

200A
ACTIVE
HARMONIC
FILTER
AHF-1

200A
ACTIVE
HARMONIC
FILTER
AHF-2

M9
PMP P9
3HP

MCC-1B

MCC-1B

2,000A BUS 480V,3W, 65kAIC, NEMA 1

P-066

MLUG

J6F FRAME
250AT

J6F FRAME
250AT

NO FRAME
(LSI)
600AT

NO FRAME
(LSI)
600AT

NO FRAME
(LSI)
600AT

NO FRAME
(LSI)
600AT

VFD
POWERFLEX
755TS
W/TOTAL
FORCE
AC
DRIVE
HEAVY
DUTY

SMC FLEX
SOFT STARTER

SMC FLEX
SOFT STARTER

P-015 P-016 P-017 P-018 P-019 P-020 P-021 P-022

M1
PMP P1
250HP
FUTURE

M2
PMP P2
250HP
FUTURE

M3
PMP P3
125HP

M4
PMP P4
125HP

M5
PMP P5
250HP

M6
PMP P6
250HP

M7
PMP P7
250HP

M8
PMP P8
250HP

ACTIVE HARMONIC FILTER #1(AHF-1)
AND ACTIVE HARMONIC FILTER #2 (AHF-2)

NOTES:
1. UNDERGROUND SWITCHBOARD PULL SECTION (2,000A NEMA 3R), MEETING ELECTRIC UTILITY SERVICE EQUIPMENT REQUIREMENT COMMITTEE (EUSERC) 347, 345 AND 322 REQUIREMENTS, PER UEC.
2. UEC SERVICE METER TO BE INSTALLED BY UMATILLA ELECTRIC COOPERATIVE.
3. OWNER PROVIDED 2,000A SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH BREAK BEFORE MAKE ATS.
4. LIGHTS, RECEPTACLES AND OTHER LOADS IN THE PUMP ROOM WILL BE POWERED FROM PANELBOARDS LP1, LP2, AND POWER PANEL PP1.
5. CONNECTION BETWEEN MCC-1A AND MCC-1B BUSES, 2,000A, 600V, NON-SEGREGATED BUS DUCT, 12"H X 277"L X 18.5"D, WITH TWO VERTICAL BUS EXTENSIONS AT EACH END, 16"H X 18.5"D.
6. CABLE RACEWAY UNDERGROUND IN TRENCH SEE SHEET 230-02 SECTION D/01. NO LINE-TO-NEUTRAL LOADS SHALL BE SERVED.
7. SCHNEIDER ELECTRIC PowerPactT(TM) J-FRAME CIRCUIT BREAKER (JJL36250U33X), 250A FRAME, 600V, LSI STANDARD ELECTRONIC TRIP 3.2S (70A SETTING), 65kAIC, MECHANICAL LUGS (6 EACH) AL175JD, WITH CABLE OPERATING HANDLE, MOUNTED IN NEMA4 ENCLOSURE MINIMUM SIZE: 20"X8"X6", OR APPROVED EQUAL.

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OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2027

No.	Revision	Date	Drawn	Checked
1	ISSUED FOR BID	05-20-26	BJL	MTD
0	ISSUED FOR BID	10-17-25	BJL	MTD

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
IAA	BJL	MTD	5002-001	05-20-26	530-01

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU PUMP AND PIPELINE PRJECT
INTAKE AND PUMP STATION

ELECTRICAL - DIAGRAMS
ONE-LINE DIAGRAM

Kleinschmidt
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22x34 = FULL SCALE
3"
2"
1"
0

Cat5e INDUSTRIAL ETHERNET CABLE (TYPICAL)

N-011

N-003 THROUGH N-010

INTERNET PROTOCOL SURVEILLANCE SYSTEM

N-014

CONTROL SYSTEM RACK

UMATILLA INTAKE PLC
RA/A-B COMPACTLOGIX 5370

FIBER PATCH PANEL

Stratix 5200
20-Port
ETHERNET SWITCH

15" DISPLAY
PANEL VIEW PLUS 7
MODEL 2711P-T15C22D9P

N-002

N-012

SINGLE MODE
FIBER OPTIC CABLE

INTAKE DRUM SCREEN
CONTROL PANEL

N-013

HIGH RESISTANCE
GROUNDING SYSTEM

TO WATER TREATMENT PLANT (WTP)
NETWORK RACK NR-001
FIBER PATCH PANEL

N-001

MCC-1A

METR - METERING UNIT

ENPS
POWER SUPPLY
FOR ENSW

ENSW - Stratix
5200
20-Port
ETHERNET
SWITCH

VFD - PowerFlex 755TS
w/Total Force AC Drive
w/CB
FOR PMP-9 (3HP)

MCC-1B

VFD - PowerFlex 755TS
w/Total Force AC Drive w/CB
FOR PMP-8 (250HP)

VFD - PowerFlex 755TS
w/Total Force AC Drive w/CB
FOR PMP-7 (250HP)

SMC - SMC Flex
Soft Starter w/CB
FOR PMP-6 (125HP)

SMC - SMC Flex
Soft Starter w/CB
FOR PMP-5 (125HP)

VFD - PowerFlex 755TS
w/Total Force AC Drive w/CB
FOR PMP-4 (250HP)

VFD - PowerFlex 755TS
w/Total Force AC Drive w/CB
FOR PMP-3 (250HP)

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91363PE
OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2025

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0	ISSUED FOR BID	10-17-25	BJL	MTD

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IAA	BJL	MTD	5002-001	10-17-25	530-02

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU PUMP AND PIPELINE PRJECT
INTAKE AND PUMP STATION

ELECTRICAL - DIAGRAMS
INTAKE NETWORK

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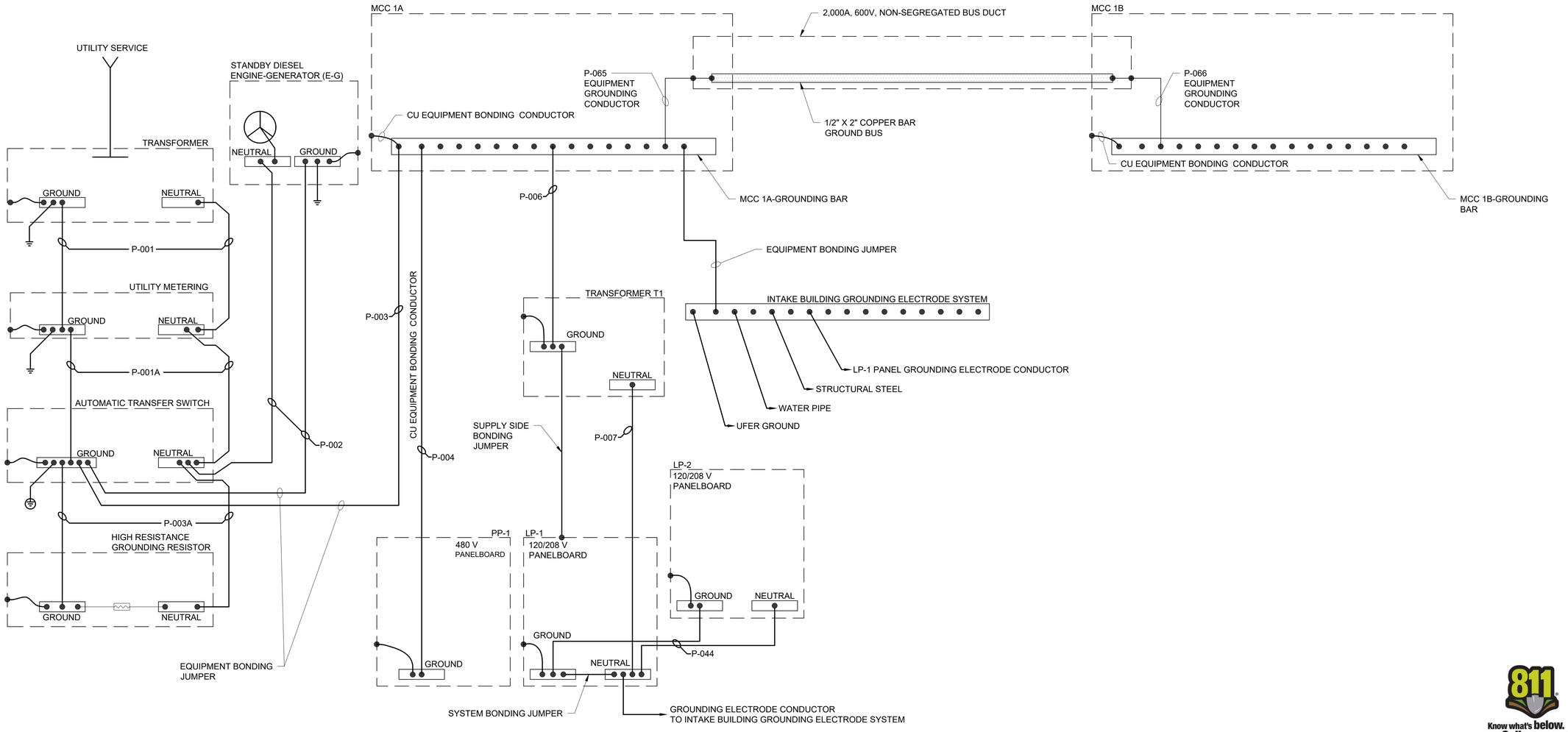
22x34 = FULL SCALE



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OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2025

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU PUMP AND PIPELINE PRJECT
INTAKE AND PUMP STATION

ELECTRICAL
EQUIPMENT GROUNDING AND BONDING DETAIL

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
IAA	BJL	MTD	5002-001	10-17-25	530-03

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22x34 = FULL SCALE 0 1" 2" 3"

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OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2025

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IAA	BJL	MTD	5002-001	10-17-25	530-04

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU PUMP AND PIPELINE PRJECT
INTAKE AND PUMP STATION

ELECTRICAL

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120/208V 3 PH. 4W.

LP-1

REV.	LOAD DESCRIPTION	DWG. NO.	CABLE SIZE AWG	CABLE. NO.	LOAD DATA NON A	LOAD DATA CONT. A	SEE NOTE	CKT. NO.	BREAKER RATING
									MAIN
	OUTDOOR COIL UNIT ODU-4	420-01	#8 AWG	P-031	-	29.1	1	1	35
					-	29.1		3	
	INDOOR FAN COIL UNIT FCU-4.1	420-01	#12 AWG	P-032	-	0.6	-	5	15
					-	0.6		7	
	INDOOR FAN COIL UNIT FCU-4.2	420-01	#12 AWG	P-033	-	0.6	-	9	15
					-	0.6		11	
	INDOOR FAN COIL UNIT FCU-5.1	420-01	#12 AWG	P-034	-	0.6	-	13	15
					-	0.6		15	
	OUTDOOR COIL UNIT ODU-5	420-01	#8 AWG	P-035	-	29.1	1	17	35
					-	29.1		19	
	INDOOR FAN COIL UNIT FCU-5.2	420-01	#12 AWG	P-036	-	0.6	-	21	15
					-	0.6		23	
	SURGE TANK HEAT TRACE	500-01	#10 AWG	P-045	-	15.0	2	25	20
					-	15.0		27	
	RECEPTACLE CIRCUIT 2 - NORTH/EAST	510-04	#12 AWG	P-047	6.0	-	-	29	20
	PUMP STATION LIGHTING - EAST CKT	510-02	#12 AWG	P-050	-	0.8	-	31	20
	STANDBY DIESEL ENGINE-GENERATOR ACCESSORY LOAD CENTER	510-01	#6 AWG	P-041	-	33.2	-	33	60
					-	33.2		35	
	FEED TO LP-2 (SEE DWG 530-08)	530-06	#1/0 AWG	P-044	-	67.0	-	37	150
					-	64.9		39	
					-	62.9		41	

A B C

200

BREAKER RATING	CKT. NO.	SEE NOTE	LOAD DATA CONT. A	LOAD DATA NON A	CABLE. NO.	CABLE SIZE AWG	DWG. NO.	LOAD DESCRIPTION	REV.
20	2	-	1.6	-	N/A	#12 AWG	N/A	RESERVED FOR FUTURE CIRCUIT (PUMP #1 ANTI-CONDENSATION HEATER)	
20	4	-	1.6	-	N/A	#12 AWG	N/A	RESERVED FOR FUTURE CIRCUIT (PUMP #2 ANTI-CONDENSATION HEATER)	
20	6	-	1.6	-	P-039	#12 AWG	-	PUMP #3 ANTI-CONDENSATION HEATER	
20	8	-	1.6	-	P-040	#12 AWG	-	PUMP #4 ANTI-CONDENSATION HEATER	
20	10	-	1.3	-	P-048	#12 AWG	510-03	PUMP STATION EMERGENCY LIGHTING	
20	12	-	-	6.0	P-046	#12 AWG	510-04	RECEPTACLE CIRCUIT 1 - SOUTH/WEST	
20	14	-	0.5	-	P-049	#12 AWG	510-02	PUMP STATION LIGHTING - WEST CKT	
20	16	-	0.6	-	P-051	#12 AWG	510-01	PUMP STATION EXTERIOR LIGHTING	
20	18	2	-	4.2	P-042	#12 AWG	500-02	INTAKE SCREEN CONTROL PANEL	
20	20	2	-	4.2	P-043	#12 AWG	500-02	CONTROL SYSTEM RACK (CSR)	
20	22	2	4.2		P-074	#12 AWG	500-02	BUS DUCT ANTI-CONDENSATION HEATER	
20	24	-	-	8.0	P-075	#12 AWG	500-01	SURGE TANK CONTROLLER	
15	26	-	-	-	-	-	-	SPARE	
	28		-	-					
15	30	-	-	-	-	-	-	SPARE	
	32		-	-					
35	34	-	-	-	-	-	-	SPARE	
	36		-	-					
20	38	-	-	-	-	-	-	SPARE	
20	40	-	-	-	-	-	-	SPARE	
20	42	-	-	-	-	-	-	SPARE	

	A	B	C
TOTAL NON-CONTINUOUS LOAD (AMPS)	4.2	0.0	24.2
TOTAL CONTINUOUS LOAD (AMPS)	145.9	151.7	128.6

NOTE

1 GFI CKT BKR (6 mA TRIP).

2 USE HACR RATED CIRCUIT BREAKER. LOAD IS ASSUMED. CONFIRM IN THE FIELD AND UPDATE DURING COMMISSIONING.

GENERAL NOTES:

MANUFACTURER INFORMATION:

MFG: SQUARE D

MODEL: NQ

BUS RATING: 225 AMPS

S.C. RATING: 22 KAIC

MAIN BKR. TYPE: QD

BRANCH BKR. TYPE: QOB-VH

NEUTRAL BUS: YES

NEUTRAL BONDING JUMPER: YES

REFERENCE DRAWING:

500-02, 520-01

MCC-1A
PUMP STATION, WEST WALL
530-01

P-006

480V-120/208V
75kVA, 3-PH

P-007

LP-1
PUMP STATION, SOUTH WALL
530-05

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OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2027

No.	Revision	Date	Drawn	Checked
1	ISSUED FOR BID	05-20-26	BJL	MTD
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Project No.	Date Revised	Drawing No.
5002-001	05-20-26	530-05

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU PUMP AND PIPELINE PRJECT
INTAKE AND PUMP STATION

ELECTRICAL - DIAGRAMS
PANELBOARD SCHEDULE LP-1

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REV.	LOAD DESCRIPTION	DWG. NO.	CABLE SIZE AWG	CABLE. NO.	LOAD DATA NON A	LOAD DATA CONT. A	SEE NOTE	CKT. NO.	BREAKER RATING	208Y/120 VOLT BUS A	B	C	BREAKER RATING	CKT. NO.	SEE NOTE	LOAD DATA CONT. A	LOAD DATA NON A	CABLE. NO.	CABLE SIZE AWG	DWG. NO.	LOAD DESCRIPTION	REV.
	OUTDOOR COIL UNIT ODU-1	420-01	#8 AWG	P-052	-	29.1	1	1	35				20	2	-	0.7	-	P-061	#12 AWG	-	PUMP #5 ANTI-CONDENSATION HEATER	
					-	29.1		3						4		0.7						
	INDOOR FAN COIL UNIT FCU-1.1	420-01	#12 AWG	P-053	-	0.6	-	5	15				20	6	-	0.7	-	P-062	#12 AWG	-	PUMP #6 ANTI-CONDENSATION HEATER	
					-	0.6		7						8		0.7						
	INDOOR FAN COIL UNIT FCU-1.2	420-01	#12 AWG	P-054	-	0.6	-	9	15				20	10	-	1.6	-	P-063	#12 AWG	-	PUMP #7 ANTI-CONDENSATION HEATER	
					-	0.6		11					20	12	-	1.6	-	P-064	#12 AWG	-	PUMP #8 ANTI-CONDENSATION HEATER	
	INDOOR FAN COIL UNIT FCU-2.1	420-01	#12 AWG	P-055	-	0.6	-	13	15				20	14	2	5.0	-	P-072	#12 AWG	-	IP CAMERA SYSTEM UPS	
					-	0.6		15					20	16	2	2.0	-	P-073	#12 AWG	-	FIRE ALARM CONTROL PANEL (FACP)	
	OUTDOOR COIL UNIT ODU-2	420-01	#8 AWG	P-056	-	29.1	1	17	35				35	18	-	-	-	-	-	-	SPARE	
					-	29.1		19						20		-						
	INDOOR FAN COIL UNIT FCU-2.2	420-01	#12 AWG	P-057	-	0.6	-	21	15				15	22	-	-	-	-	-	-	SPARE	
					-	0.6		23						24		-						
	INDOOR FAN COIL UNIT FCU-3.1	420-01	#12 AWG	P-058	-	0.6	-	25	15				15	26	-	-	-	-	-	-	SPARE	
					-	0.6		27						28		-						
	INDOOR FAN COIL UNIT FCU-3.2	420-01	#12 AWG	P-059	-	0.6	-	29	20				20	30							SPARE	
					-	0.6		31					-	32	-	-	-	-	-	-	BLANK	
	OUTDOOR COIL UNIT ODU-3	420-01	#8 AWG	P-060	-	29.1	1	33	35				-	34	-	-	-	-	-	-	BLANK	
					-	29.1		35					-	36	-	-	-	-	-	-	BLANK	
	BLANK	-	-	-	-	-	-	37	-				-	38	-	-	-	-	-	-	BLANK	
	BLANK	-	-	-	-	-	-	39	-				-	40	-	-	-	-	-	-	BLANK	
	BLANK	-	-	-	-	-	-	41	-				-	42	-	-	-	-	-	-	BLANK	

	A	B	C
TOTAL NON-CONTINUOUS LOAD (AMPS)	0.0	0.0	0.0
TOTAL CONTINUOUS LOAD (AMPS)	67.0	64.9	62.9

NOTE

1 GFI CKT BKR (6 mA TRIP).

2 LOAD IS ASSUMED. CONFIRM IN THE FIELD AND UPDATE DURING COMMISSION

120/208V 3 PH. 4W.

LP-2

GENERAL NOTES:

MANUFACTURER INFORMATION:

MFG: SQUARE D

MODEL: NQ

BUS RATING: 225 AMPS

S.C. RATING: 22 KAIC

MAIN BKR. TYPE: N/A (MAIN LUGS)

BRANCH BKR. TYPE: QOB-VH

NEUTRAL BUS: YES

NEUTRAL BONDING JUMPER: YES

REFERENCE DRAWING:

500-02, 520-01

LP-1

PUMP STATION, SOUTH WALL

530-05

P-044

(3) #1/0 AWG
(1) #8 AWG (GND)

LP-2

PUMP STATION, EAST WALL

530-06

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91363PE
OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2025

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	MTD

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MRB	CRS	MTD	5002-001	10-17-25	530-06

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU PUMP AND PIPELINE PRJECT
INTAKE AND PUMP STATION

ELECTRICAL - DIAGRAMS
PANELBOARD SCHEDULE LP-2

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22x34 = FULL SCALE

REV.	LOAD DESCRIPTION	DWG. NO.	CABLE SIZE AWG	CABLE. NO.	LOAD DATA NON A	LOAD DATA CONT. A	SEE NOTE	CKT. NO.	BREAKER RATING	480 VOLT BUS A	480 VOLT BUS B	480 VOLT BUS C	BREAKER RATING	CKT. NO.	SEE NOTE	LOAD DATA CONT. A	LOAD DATA NON A	CABLE. NO.	CABLE SIZE AWG	DWG. NO.	LOAD DESCRIPTION	REV.
	WET WELL SUPPLY GATE SG-1	400-01	#12 AWG	P-023	9.5		-	1						2			4.2					
					9.5			3	20				20	4	-		4.2	P-027	#12 AWG	400-01	DRUM SCREEN WINCH #1	
					9.5			5						6			4.2					
	WET WELL SUPPLY GATE SG-2	400-01	#12 AWG	P-024	9.5		-	7						8			4.2					
					9.5			9	20				20	10	-		4.2	P-028	#12 AWG	400-01	DRUM SCREEN WINCH #2	
					9.5			11						12			4.2					
	ELECTRIC UNIT HEATER UH-1	420-01	#12 AWG	P-025		9.1	-	13						14		4.2						
						9.1		15	20				20	16	-	4.2		N/A	#12 AWG	400-01	RESERVED FOR FUTURE CIRCUIT (DRUM SCREEN WINCH #3)	
						9.1		17						18		4.2						
	ELECTRIC UNIT HEATER UH-2	420-01	#12 AWG	P-026		9.1	-	19						20			7.0					
						9.1		21	20				20	22	1		7.0	P-030	#12 AWG	500-01	SURGE TANK COMPRESSOR	
						9.1		23						24			7.0					
	SPARE						-	25						26								
								27	20				-	28	-						BLANK	
								29						30								
	SPARE						-	31						32								
								33	20				-	34	-						BLANK	
								35						36								
	SPARE						-	37						38								
								39	30				-	40	-						BLANK	
								41						42								
	BLANK						-	43						44								
								45	-				-	46	-						BLANK	
								47						48								

		A	B	C
	TOTAL NON-CONTINUOUS LOAD (AMPS)	34.4	34.4	34.4
	TOTAL CONTINUOUS LOAD (AMPS)	22.4	22.4	22.4

NOTE

1 LOAD IS ASSUMED. CONFIRM IN THE FIELD AND UPDATE DURING COMMISSIONING.

2

3

480V 3PH. 3W.

PP-1

GENERAL NOTES:

MFG: SQUARE D

MODEL: NF

BUS RATING: 125 AMPS

S.C. RATING: 65 KAIC

MAIN BKR. TYPE: N/A (MAIN LUGS)

BRANCH BKR. TYPE: EJB

NEUTRAL BUS: N/A

NEUTRAL BONDING JUMPER: N/A

REFERENCE DRAWING:

500-02, 520-01

MCC-1A
PUMP STATION, WEST WALL
530-01

P-004

(3) #1/0 AWG
(1) #8 AWG (GND)

PP-1
PUMP STATION, EAST WALL
530-07

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OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2027

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0	ISSUED FOR BID	10-17-25	BJL	MTD

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IAA	CRS	MTD	5002-001	05-20-26	530-07

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU PUMP AND PIPELINE PRJECT
INTAKE AND PUMP STATION

ELECTRICAL - DIAGRAMS
PANELBOARD SCHEDULE PP-1

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3"
2"
1"
0
22x34 = FULL SCALE

480V MOTOR CONTROL CENTER- MCC 1A

COMPT. NO.	NAMEPLATE INCRIPTION	BREAKER AMP / FRAME	BREAKER TRIP AMP / TYPE	STARTER TYPE / SIZE	STARTER CONTR. TRANSF.	STARTER O.L. HTR.	STARTER WIRING FIG.	WIRING DIAGRAM	NOTES	CABLE SIZE / CABLE NUMBER	SCHEMATIC	MOTOR GROUNDING SYMBOLS / LOCATION DWG. NO.	MOTOR GROUNDING CABLE SIZE	MOTORS BRG. T. C / SPACE HTRS.	MOTORS ENCL. / LOC.	MOTORS ROT. / RPM	MOTORS TEMP RISE / SERV. FACTOR	MOTORS F.L.A. / L.R.A.	MOTORS HP / KVA/KW	MOTORS ACC. TIME / STALL TIME	LINE NO.	REV.
1A	INCOMING MAIN CIRCUIT BREAKER	3000 / R12I	2000 / ELECTRONIC (LSIG)	N/A				10007594946	WITH INTERNAL GROUND FAULT DETECTION	QTY 6 400 MCM / P-003	-	N/A									1	-
2A	SURGE PROTECTION DEVICE, SPD	125 / G6C	60 / THERMAL MAGNETIC	N/A				10002650305	-	N/A	-	N/A									2	-
2D	METERING UNIT, METR	N/A		N/A				10003772916	POWER METER BUL 1426-M5 PM 5000 W/ETHERNET	N/A	-	N/A									3	-
2G	FEEDER BREAKER, PP-1	125 / G6C	125 / THERMAL MAGNETIC	N/A				10004001760	-	#1 AWG / P-004	-	N/A									4	-
2H	FEEDER BREAKER, SPARE	125 / G6C	80 / THERMAL MAGNETIC	N/A				10004001760	-	N/A	-	N/A									6	-
2J	ETHERNET POWER SUPPLY, ENPS	125 / G6C	15 / THERMAL MAGNETIC	N/A				10004071286	-	N/A	-	N/A									7	-
2L	ETHERNET SWITCH, ENSW	N/A		N/A				10007650726	STRATIX 5200 20-PORT SWITCH	N/A	-	N/A									8	-
3A	ACTIVE HARMONIC FILTER, AHF-1	400 / K6H	300 / ELECTRONIC (LSIG)	N/A				10003996122	-	350 MCM VFD CABLE / P-013	-	N/A									9	-
3E	FEEDER BREAKER, DRUM SCREEN	125 / G6C	40 / THERMAL MAGNETIC	N/A				10004067439	-	#8 AWG / P-008	-	N/A									10	-
3F	FEEDER BREAKER, LP-1 VIA XFMR-T1	125 / G6C	90 / THERMAL MAGNETIC	N/A				10003993851	-	#2 AWG / P-006	-	N/A									11	-
3G	FEEDER BREAKER, EXHAUST FAN EF-1	125 / G6C	15 / THERMAL MAGNETIC	N/A				10003994640	-	#12 AWG / P-012	-								5		12	-
3H	BLANK	N/A		N/A				N/A	-	N/A	-	N/A									13	-
3J	BLANK	N/A		N/A				N/A	-	N/A	-	N/A									14	-
3L	BLANK	N/A		N/A				N/A	-	N/A	-	N/A									13	-
4A	ACTIVE HARMONIC FILTER, AHF-2	400 / K6H	300 / ELECTRONIC (LSIG)	N/A				10003996122	-	350 MCM VFD CABLE / P-014	-	N/A									14	-
4E	SUMP PUMP, PMP-9	125 / G6C	15 / THERMAL MAGNETIC	POWERFLEX 755TS VFD / 3A	120V	N/A	N/A	1007594942	-	#12 AWG VFD CABLE / P-005	-								3		15	-
4J	BLANK	N/A		N/A				N/A	-	N/A	-	N/A									16	-
4L	BLANK	N/A		N/A				N/A	-	N/A	-	N/A									17	-
5A	FEEDER LUG OUTGOING COMPARTMENT, FLUG	N/A		N/A				10007823297	2000A LUG COMPARTMENT	QTY 6 400 MCM / P-065	-	N/A									18	-

	30" 1	20" 2	20" 3	20" 4	20" 5
A	2000A INCOMING MAIN BREAKER, MCB 01	SURGE PROTECTION DEVICE, SPD	ACTIVE HARMONIC FILTER, AHF-1	ACTIVE HARMONIC FILTER, AHF-2	FEEDER LUG OUTGOING COMPARTMENT, FLUG
B					
C					
D		METERING UNIT, METR	FEEDER BREAKER, DRUM SCREEN	SUMP PUMP, PMP-9	
E			FEEDER BREAKER, LP-1 VIA XFMR-T1		
F		FEEDER BREAKER, PP-1	FEEDER BREAKER, EXHAUST FAN EF-1		
G		FEEDER BREAKER, SPARE	BLANK		
H		ETHERNET POWER SUPPLY, ENPS	BLANK	BLANK	
J		ETHERNET SWITCH, ENSW	BLANK	BLANK	
K					
L					
M					
		600V MCC 2000A BUS FRONT VIEW FOR MCC 1A			

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REGISTERED PROFESSIONAL ENGINEER
91363PE
OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2025

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	MTD

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
IAA	CRS	MTD	5002-001	10-17-25	530-08

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU PUMP AND PIPELINE PRJECT
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MCC SCHEDULE MCC-1A

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480V MOTOR CONTROL CENTER- MCC 1B												MOTOR GROUNDING		MOTORS							LINE NO.	REV.
COMPT. NO.	NAMEPLATE INCRIPTION	BREAKER		STARTER				WIRING DIAGRAM	NOTES	CABLE SIZE	SCHEMATIC	SYMBOLS	CABLE SIZE	BRG. T. C	ENCL.	ROT.	TEMP RISE	F.L.A.	HP	ACC. TIME		
		AMP FRAME	TRIP AMP TYPE	TYPE SIZE	CONTR. TRANSF.	O.L. HTR.	WIRING FIG.			CABLE NUMBER		LOCATION DWG. NO.		SPACE HTRS.	LOC.	RPM	SERV. FACTOR	L.R.A.	KVA/KW	STALL TIME		
1A	MAIN INCOMING LUG COMPARTMENT, MLUG	N/A		N/A				10003722384	2000A LUG COMPARTMENT	QTY 6 400 MCM P-066	-	N/A									1	-
2A	PMP-8	800 M0H	600 ELECTRONIC (LSI)	POWERFLEX 755TS VFD 302A	120V	N/A	N/A	-		500 MCM VFD CABLE P-022	-	GND	1 AWG	- 115V, 192W	WPI -	- 1800	- 1.15	281 1757.2	250 186.5	- -	2	-
3A	PMP-7	800 M0H	600 ELECTRONIC (LSI)	POWERFLEX 755TS VFD 302A	120V	N/A	N/A	-		500 MCM VFD CABLE P-021	-	GND	1 AWG	- 115V, 192W	WPI -	- 1800	- 1.15	281 1757.2	250 186.5	- -	3	-
4A	PMP-6	250 J6F	250 THERMAL MAGNETIC	POWERFLEX 755TS VFD 201A	120V	N/A	N/A	-		250 MCM VFD CABLE P-020	-	GND	4 AWG	- 230V, 144W	WPI -	- 1800	- 1.15	150 1014.9	125 93.2	- -	4	-
5A	PMP-5	250 J6F	250 THERMAL MAGNETIC	POWERFLEX 755TS VFD 201A	120V	N/A	N/A	-		250 MCM VFD CABLE P-019	-	GND	4 AWG	- 230V, 144W	WPI -	- 1800	- 1.15	150 1014.9	125 93.2	- -	5	-
6A	PMP-4	800 M0H	600 ELECTRONIC (LSI)	POWERFLEX 755TS VFD 302A	120V	N/A	N/A	-		500 MCM VFD CABLE P-018	-	GND	1 AWG	- 115V, 192W	WPI -	- 1800	- 1.15	281 1757.2	250 186.5	- -	6	-
7A	PMP-3	800 M0H	600 ELECTRONIC (LSI)	POWERFLEX 755TS VFD 302A	120V	N/A	N/A	-		500 MCM VFD CABLE P-017	-	GND	1 AWG	- 115V, 192W	WPI -	- 1800	- 1.15	281 1757.2	250 186.5	- -	7	-
8A	SPACE RESERVED FOR PMP-2 (FUTURE)	800 M0H	600 ELECTRONIC (LSI)	POWERFLEX 755TS VFD 302A	120V	N/A	N/A	-	FUTURE	500 MCM VFD CABLE P-016	-	GND	1 AWG	- 115V, 192W	WPI -	- 1800	- 1.15	281 1757.2	250 186.5	- -	8	-
9A	SPACE RESERVED FOR PMP-1 (FUTURE)	800 M0H	600 ELECTRONIC (LSI)	POWERFLEX 755TS VFD 302A	120V	N/A	N/A	-	FUTURE	500 MCM VFD CABLE P-015	-	GND	1 AWG	- 115V, 192W	WPI -	- 1800	- 1.15	281 1757.2	250 186.5	- -	9	-

	20" 1	35" 2	35" 3	20" 4	20" 5	35" 6	35" 7	35" 8	35" 9
A	MAIN INCOMING LUG COMPARTMENT, MLUG	PMP-8	PMP-7	PMP-6	PMP-5	PMP-4	PMP-3	SPACE RESERVED FOR PMP-2 (FUTURE)	SPACE RESERVED FOR PMP-1 (FUTURE)
B									
C									
D									
E									
F									
G									
H									
I									
J									
K									
L									

600V MCC 2000A BUS
FRONT VIEW FOR MCC 1B

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MRB	BJL	MTD	5002-001	10-17-25	530-09

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22x34 = FULL SCALE
3" 2" 1" 0

CABLE NO.	PHASE CONDUCTOR	EQUIPMENT GROUNDING CONDUCTOR	FROM	TO	SERVICE	CLASSIFICATION	RACEWAY	DWG REF.	NOTES
P-001	18-1/C 400MCM, 6-1/C #2 AWG	6- #8 AWG	UEC PAD MOUNT XFMR	UEC METERING ENCLOSURE	480V POWER	POWER	DB1-01, DB1-02, DB1-03, DB1-04, DB1-05, DB1-06	530-01	4
P-001A	18-1/C 400MCM, 6-1/C #2 AWG	6- #8 AWG	UEC METERING ENCLOSURE	ATS	480V POWER	POWER	DB1A-01, DB1A-02, DB1A-03, DB1A-04, DB1A-05, DB1A-06	530-01	4
P-002	18-1/C 400MCM, 6-1/C #2 AWG	6- #8 AWG	STANDBY DIESEL ENGINE-GENERATOR	ATS	480V POWER	POWER	DB2-01, DB2-02, DB2-03, DB2-04, DB2-05, DB2-06	530-01	4
P-003	18-1/C 400MCM	6- #8 AWG	ATS	MCC-1A	480V POWER	POWER	DB3-01, DB3-02, DB3-03, DB3-04, DB3-05, DB3-06	530-01	3, 5
P-003A	3-1/C #4/0 AWG, 1/C #6AWG NEUTRAL	1-#6 AWG	ATS	GROUNDING RESISTOR FUSED DISCONNECT	480V POWER	POWER	PC-053	530-01	6
P-003B	3-1/C #6 AWG (2 PHASE, 1 NEUTRAL)	1- #6 AWG	GROUNDING RESISTOR FUSED DISCONNECT	HIGH RESISTANCE GROUNDING RESISTOR	480V POWER	POWER	PC-054	530-01	6
P-004	3-1/C #1 AWG	#6 AWG	MCC-1A	PP-1	480V POWER	POWER	PC-001	530-01	
P-005	1-3/C #12 AWG VFD CABLE	INCLUDED IN CABLE	MCC-1A	SUMP PUMP P9	480V POWER	POWER	PC-002	530-01	
P-006	3-1/C #2 AWG	#8 AWG	MCC-1A	XFMR-T1	480V POWER	POWER	PC-003	530-01	
P-007	3-1/C #4/0 AWG	#6 AWG	XFMR-T1	LP-1	208Y/120V POWER	POWER	PC-004	530-01	
P-008	3-1/C #8 AWG	#10 AWG	MCC-1A	SCREEN CONTROL PANEL	480V POWER	POWER	PC-005	530-01	
P-009	3-1/C #12 AWG	#12 AWG	SCREEN CONTROL PANEL	DRUM SCREEN IS-1	480V POWER	POWER	PC-006	530-01	2
P-010	3-1/C #12 AWG	#12 AWG	SCREEN CONTROL PANEL	DRUM SCREEN IS-2	480V POWER	POWER	PC-007	530-01	2
P-011	RESERVED FOR FUTURE USE, DRUM SCREEN IS-3		-	-	480V POWER	POWER	PC-008	530-01	
P-012	3-1/C #12 AWG	#12 AWG	MCC-1A	EXHAUST FAN EF-1	480V POWER	POWER	PC-052	530-01	
P-013	1-3/C 350MCM VFD CABLE	INCLUDED IN CABLE	MCC-1A	ACTIVE HARMONIC FILTER AHF-1	480V POWER	POWER	PC-009	530-01	
P-014	1-3/C 350MCM VFD CABLE	INCLUDED IN CABLE	MCC-1A	ACTIVE HARMONIC FILTER AHF-2	480V POWER	POWER	PC-010, TR1-N, PC-011	530-01	
P-015	RESERVED FOR FUTURE USE, PUMP PMP-1		-	-	480V POWER	POWER	TR1-N, TR1-P1	530-01	
P-016	RESERVED FOR FUTURE USE, PUMP PMP-2		-	-	480V POWER	POWER	TR1-N, TR1-P1	530-01	
P-017	1-3/C #500MCM VFD CABLE	INCLUDED IN CABLE	MCC-1B	PMP-3	480V POWER	POWER	TR1-N, TR1-P3	530-01	
P-018	1-3/C #500MCM VFD CABLE	INCLUDED IN CABLE	MCC-1B	PMP-4	480V POWER	POWER	TR1-N, TR1-P3	530-01	
P-019	1-3/C #250MCM VFD CABLE	INCLUDED IN CABLE	MCC-1B	PMP-5	480V POWER	POWER	TR1-N, TR1-P5	530-01	
P-020	1-3/C #250MCM VFD CABLE	INCLUDED IN CABLE	MCC-1B	PMP-6	480V POWER	POWER	TR1-N, TR1-P5	530-01	
P-021	1-3/C #500MCM VFD CABLE	INCLUDED IN CABLE	MCC-1B	PMP-7	480V POWER	POWER	TR1-N, TR1-P7	530-01	
P-022	1-3/C #500MCM VFD CABLE	INCLUDED IN CABLE	MCC-1B	PMP-8	480V POWER	POWER	TR1-N, TR1-P7	530-01	
P-023	3-1/C #12 AWG	#12 AWG	PP-1	WET WELL SUPPLY GATE SG-1	480V POWER	POWER	PC-037	530-07	
P-024	3-1/C #12 AWG	#12 AWG	PP-1	WET WELL SUPPLY GATE SG-2	480V POWER	POWER	PC-038	530-07	
P-025	3-1/C #12 AWG	#12 AWG	PP-1	ELECTRIC UNIT HEATER UH-1	480V POWER	POWER	PC-012	530-07	
P-026	3-1/C #12 AWG	#12 AWG	PP-1	ELECTRIC UNIT HEATER UH-2	480V POWER	POWER	PC-013	530-07	
P-027	3-1/C #12 AWG	#12 AWG	PP-1	DRUM SCREEN WINCH #1	480V POWER	POWER	PC-039	530-07	
P-028	3-1/C #12 AWG	#12 AWG	PP-1	DRUM SCREEN WINCH #2	480V POWER	POWER	PC-040	530-07	
P-029	RESERVED FOR FUTURE USE, DRUM SCREEN WINCH 3		-	-	480V POWER	POWER	PC-041	530-07	
P-030	3-1/C #12 AWG	#12 AWG	PP-1	SURGE TANK COMPRESSOR	480V POWER	POWER	PC-042	530-07	1
P-031	2-1/C #8 AWG	#10 AWG	LP-1	OUTDOOR COIL UNIT ODU-4	208V POWER	POWER	PC-043	530-05	
P-032	2-1/C #12 AWG	#12 AWG	LP-1	INDOOR FAN COIL UNIT FCU-4.1	208V POWER	POWER	PC-044, PC-045	530-05	
P-033	2-1/C #12 AWG	#12 AWG	LP-1	INDOOR FAN COIL UNIT FCU-4.2	208V POWER	POWER	PC-044, PC-046	530-05	
P-034	2-1/C #8 AWG	#10 AWG	LP-1	OUTDOOR COIL UNIT ODU-5	208V POWER	POWER	PC-047	530-05	
P-035	2-1/C #12 AWG	#12 AWG	LP-1	INDOOR FAN COIL UNIT FCU-5.1	208V POWER	POWER	PC-048, PC-049	530-05	
P-036	2-1/C #12 AWG	#12 AWG	LP-1	INDOOR FAN COIL UNIT FCU-5.2	208V POWER	POWER	PC-048, PC-050	530-05	
P-037	RESERVED FOR FUTURE USE, PUMP #1 ANTI-CONDENSATION HTR		-	-	120V POWER	POWER	PC-014, TR1-N, TR1-P1	530-05	
P-038	RESERVED FOR FUTURE USE, PUMP #2 ANTI-CONDENSATION HTR		-	-	120V POWER	POWER	PC-015, TR1-N, TR1-P1	530-05	
P-039	1-3/C #12 AWG	INCLUDED IN CABLE	LP-1	PUMP #3 ANTI-CONDENSATION HEATER	120V POWER	POWER	PC-016, TR1-N, TR1-P3	530-05	
P-040	1-3/C #12 AWG	INCLUDED IN CABLE	LP-1	PUMP #4 ANTI-CONDENSATION HEATER	120V POWER	POWER	PC-017, TR1-N, TR1-P3	530-05	
P-041	3-1/C #6 AWG	#10 AWG	LP-1	STANDBY DIESEL ENGINE-GENERATOR ACCESSORY LOAD CENTER	208Y/120V POWER	POWER	DB3-07	530-05	
P-042	2-1/C #12 AWG	#12 AWG	LP-1	INTAKE SCREEN CONTROL PANEL	120V POWER	POWER	PC-018	530-05	
P-043	2-1/C #12 AWG	#12 AWG	LP-1	CONTROL SYSTEM RACK (CSR)	120V POWER	POWER	PC-019	530-05	
P-044	4-1/C #1/0 AWG	#6 AWG	LP-1	LP-2	208Y/120V POWER	POWER	PC-020	530-05	
P-045	2-1/C #10 AWG	#10 AWG	LP-1	SURGE TANK HEAT TRACE CONTROLLER	208V POWER	POWER	PC-051	530-05	1
P-046	2-1/C #12 AWG	#12 AWG	LP-1	RECEPTACLE CIRCUIT 1 - SOUTH/WEST	120V POWER	POWER	BY FIELD	530-05	
P-047	2-1/C #12 AWG	#12 AWG	LP-1	RECEPTACLE CIRCUIT 2 - NORTH/EAST	120V POWER	POWER	BY FIELD	530-05	
P-048	2-1/C #12 AWG	#12 AWG	LP-1	PUMP STATION EMERGENCY LIGHTING	120V POWER	POWER	BY FIELD	530-05	
P-049	2-1/C #12 AWG	#12 AWG	LP-1	PUMP STATION LIGHTING - WEST CKT	120V POWER	POWER	BY FIELD	530-05	
P-050	2-1/C #12 AWG	#12 AWG	LP-1	PUMP STATION LIGHTING - EAST CKT	120V POWER	POWER	BY FIELD	530-05	
P-051	2-1/C #12 AWG	#12 AWG	LP-1	PUMP STATION EXTERIOR LIGHTING	120V POWER	POWER	BY FIELD, DB3-08, DB2-12	530-05	
P-052	2-1/C #8 AWG	#10 AWG	LP-2	OUTDOOR COIL UNIT ODU-1	208V POWER	POWER	PC-021	530-06	
P-053	2-1/C #12 AWG	#12 AWG	LP-2	INDOOR FAN COIL UNIT FCU-1.1	208V POWER	POWER	PC-022, PC-024	530-06	
P-054	2-1/C #12 AWG	#12 AWG	LP-2	INDOOR FAN COIL UNIT FCU-1.2	208V POWER	POWER	PC-022, PC-023	530-06	
P-055	2-1/C #12 AWG	#12 AWG	LP-2	INDOOR FAN COIL UNIT FCU-2.1	208V POWER	POWER	PC-026, PC-027	530-06	
P-056	2-1/C #8 AWG	#10 AWG	LP-2	OUTDOOR COIL UNIT ODU-2	208V POWER	POWER	PC-025	530-06	
P-057	2-1/C #12 AWG	#12 AWG	LP-2	INDOOR FAN COIL UNIT FCU-2.2	208V POWER	POWER	PC-026, PC-028	530-06	
P-058	2-1/C #12 AWG	#12 AWG	LP-2	INDOOR FAN COIL UNIT FCU-3.1	208V POWER	POWER	PC-030, PC-031	530-06	
P-059	2-1/C #12 AWG	#12 AWG	LP-2	INDOOR FAN COIL UNIT FCU-3.2	208V POWER	POWER	PC-030, PC-032	530-06	
P-060	2-1/C #8 AWG	#10 AWG	LP-2	OUTDOOR COIL UNIT ODU-3	208V POWER	POWER	PC-029	530-06	
P-061	1-3/C #12 AWG	INCLUDED IN CABLE	LP-2	PUMP #5 ANTI-CONDENSATION HEATER	208V POWER	POWER	PC-033, TR1-N, TR1-P5	530-06	
P-062	1-3/C #12 AWG	INCLUDED IN CABLE	LP-2	PUMP #6 ANTI-CONDENSATION HEATER	208V POWER	POWER	PC-034, TR1-N, TR1-P5	530-06	
P-063	1-3/C #12 AWG	INCLUDED IN CABLE	LP-2	PUMP #7 ANTI-CONDENSATION HEATER	120V POWER	POWER	PC-035, TR1-N, TR1-P7	530-06	
P-064	1-3/C #12 AWG	INCLUDED IN CABLE	LP-2	PUMP #8 ANTI-CONDENSATION HEATER	120V POWER	POWER	PC-036, TR1-N, TR1-P7	530-06	
P-065	18-1/C 400MCM	6- #8 AWG	MCC-1A	NON-SEGREGATED BUS DUCT	480V POWER	POWER	BY FIELD	530-01	3
P-066	18-1/C 400MCM	6- #8 AWG	NON-SEGREGATED BUS DUCT	MCC-1B	480V POWER	POWER	BY FIELD	530-01	3
P-067	2-1/C #12 AWG	#12 AWG	STANDBY DIESEL ENGINE-GENERATOR ACCESSORY LOAD CENTER	STANDBY DIESEL ENGINE-GENERATOR CONVENIENCE RECEPT	120V POWER	POWER	DB2-07	500-01	
P-068	2-1/C #12 AWG	#12 AWG	STANDBY DIESEL ENGINE-GENERATOR ACCESSORY LOAD CENTER	STANDBY DIESEL ENGINE-GENERATOR BATTERY HTR	120V POWER	POWER	DB2-08	500-01	
P-069	3-1/C #12 AWG	#12 AWG	STANDBY DIESEL ENGINE-GENERATOR ACCESSORY LOAD CENTER	STANDBY DIESEL ENGINE-GENERATOR ANTI-CONDENSATION HTR	208V POWER	POWER	DB2-09	500-01	
P-070	3-1/C #12 AWG	#12 AWG	STANDBY DIESEL ENGINE-GENERATOR ACCESSORY LOAD CENTER	STANDBY DIESEL ENGINE-GENERATOR BATTERY CHARGER	208V POWER	POWER	DB2-10	500-01	
P-071	3-1/C #8 AWG	#10 AWG	STANDBY DIESEL ENGINE-GENERATOR ACCESSORY LOAD CENTER	STANDBY DIESEL ENGINE-GENERATOR COOLANT HEATER	208V POWER	POWER	DB2-11	500-01	
P-072	2-1/C #12 AWG	#12 AWG	LP-2	IP CAMERA SYSTEM UPS	120V POWER	POWER	BY FIELD	530-06	1
P-073	2-1/C #12 AWG	#12 AWG	LP-2	FIRE ALARM CONTROL PANEL (FACP)	120V POWER	POWER	BY FIELD	530-06	1
P-074	2-1/C #12 AWG	#12 AWG	LP-1	BUS DUCT ANTI-CONDENSATION HEATER	120V POWER	POWER	PC-055	530-05	1

NOTES:
1. CABLE IS ASSUMED. REVIEW EQUIPMENT DOCUMENTATION AT BOTH ENDS TO VERIFY REQUIRED CABLING PRIOR TO RUNNING CABLE.
2. CABLE SIZING IS BASED ON MOTOR SIZE (1/2 HP). VERIFY CIRCUIT PROTECTION IN SCREEN CONTROL PANEL PRIOR TO RUNNING CABLE.
3. SPLIT CABLE EVENLY INTO THE 6 LISTED CONDUIT SUCH THAT EACH CONDUIT CONTAINS ONE OF EACH PHASE (400 MCM), AND A GROUND CONDUCTOR (#8 AWG).
4. SPLIT CABLE EVENLY INTO THE 6 LISTED CONDUIT SUCH THAT EACH CONDUIT CONTAINS ONE OF EACH PHASE (400 MCM), A GROUND CONDUCTOR (#8 AWG), AND A NEUTRAL CONDUCTOR (#2 AWG).
5. 1/6 OF THIS CABLE RUNS TO POWER TERMINAL BOX PTB VIA CONDUIT DB3-06 BEFORE CONTINUING TO THE ATS AS CABLE P-003A.
6. THIS CABLE CONNECTS TO THE LOAD (OUTPUT) SIDE OF THE ATS, AND BRINGS 2 PHASES, A NEUTRAL, AND A GROUND CONDUCTOR FOR CONNECTION TO THE HIGH-RESISTANCE GROUNDING RESISTOR. USE OFFSET LUGS TO MAKE CONNECTIONS.

REGISTERED PROFESSIONAL ENGINEER
91363PE
DIGITALLY SIGNED
OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS
RENEWAL DATE: 12/31/2027

No.	Revision	Date	Drawn	Checked
1	ISSUED FOR BID	05-20-26	BJL	MTD
0	ISSUED FOR BID	10-17-25	BJL	MTD

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
MRB	BJL	MTD	5002-001	05-20-26	540-01

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22x34 = FULL SCALE
3" 2" 1" 0

CABLE NO.	PHASE CONDUCTOR	EQUIPMENT GROUNDING CONDUCTOR	FROM	TO	SERVICE	CLASSIFICATION	RACEWAY	DWG REF.	NOTES
P-075	2-1/C #12 AWG	#12 AWG	LP-1	SURGE TANK CONTROLLER	120V POWER	POWER	PC-056	530-05	1
P-076	2-1/C #12 AWG	#12 AWG	SURGE TANK CONTROLLER	SURGE TANK ADD AIR SOLENOID VALVE	120V ACTUATION POWER	POWER	BY FIELD	500-01	1
P-077	2-1/C #12 AWG	#12 AWG	SURGE TANK CONTROLLER	SURGE TANK VENT AIR SOLENOID VALVE	120V ACTUATION POWER	POWER	BY FIELD	500-01	1
P-078	2-1/C #12 AWG	#12 AWG	SURGE TANK HEAT TRACE CONTROLLER	SURGE TANK HEAT TRACE	120V POWER	POWER	BY FIELD	500-01	1
N-001	SINGLEMODE FIBER DISTRIBUTION, 12 FIBER, OS2, ARMORED	N/A	WATER TREATEMENT PLANT (REMOTE)	FIBER-OPTIC PATCH PANEL	PUMP HOUSE COMMUNICATIONS	NETWORKING	NC-001A	500-02	
N-002	SINGLEMODE FIBER INTERCONNECT, 2 FIBER, OS2	N/A	FIBER-OPTIC PATCH PANEL	CONTROL SYSTEM RACK (CSR)	PUMP HOUSE COMMUNICATIONS	NETWORKING	NC-002	500-02	
N-003	RESERVED FOR FUTURE USE, PUMP #1 VFD		-	-	PUMP #1 VFD NETWORKING	NETWORKING	NC-003	530-02	
N-004	RESERVED FOR FUTURE USE, PUMP #2 VFD		-	-	PUMP #2 VFD NETWORKING	NETWORKING	NC-003	530-02	
N-005	INDUSTRIAL CAT6, SHIELDED	N/A	MCC-1A	MCC-1B	PUMP #3 VFD NETWORKING	NETWORKING	NC-003	530-02	
N-006	INDUSTRIAL CAT6, SHIELDED	N/A	MCC-1A	MCC-1B	PUMP #4 VFD NETWORKING	NETWORKING	NC-003	530-02	
N-007	INDUSTRIAL CAT6, SHIELDED	N/A	MCC-1A	MCC-1B	PUMP #5 VFD NETWORKING	NETWORKING	NC-003	530-02	
N-008	INDUSTRIAL CAT6, SHIELDED	N/A	MCC-1A	MCC-1B	PUMP #6 VFD NETWORKING	NETWORKING	NC-003	530-02	
N-009	INDUSTRIAL CAT6, SHIELDED	N/A	MCC-1A	MCC-1B	PUMP #7 VFD NETWORKING	NETWORKING	NC-003	530-02	
N-010	INDUSTRIAL CAT6, SHIELDED	N/A	MCC-1A	MCC-1B	PUMP #8 VFD NETWORKING	NETWORKING	NC-003	530-02	
N-011	INDUSTRIAL CAT6, SHIELDED	N/A	CONTROL SYSTEM RACK (CSR)	MCC-1A	MCC NETWORKING	NETWORKING	NC-004	530-02	
N-012	INDUSTRIAL CAT6, SHIELDED	N/A	SCREEN CONTROL PANEL	CONTROL SYSTEM RACK (CSR)	SCREEN CONTROL PANEL NETWORKING	NETWORKING	NC-005	530-02	1
N-013	INDUSTRIAL CAT6, SHIELDED, 600V INSULATED	N/A	HIGH RESISTANCE GROUNDING RESISTOR	CONTROL SYSTEM RACK (CSR)	GROUNDING RESISTOR NETWORKING	NETWORKING	CC-026, DB3-09	530-02	1
N-014	INDUSTRIAL CAT6, SHIELDED	N/A	CONTROL SYSTEM RACK (CSR)	IP CAMERA SYSTEM NETWORK VIDEO RECORDER (NVR)	IP CAMERA SYSTEM	NETWORKING	BY FIELD	530-02	1
C-001	1-1PAIR #16 AWG TW/SH	N/A	CONTROL SYSTEM RACK (CSR)	ULTRASONIC FLOW METER - TRANSMITTER	PUMP STATION FLOW MEASUREMENT	INSTRUMENT	CC-001	330-01	
C-002	1-3/C #14 AWG	INCLUDED IN CABLE	CONTROL SYSTEM RACK (CSR)	ULTRASONIC FLOW METER - TRANSMITTER	PUMP STATION FLOW MEASUREMENT	CONTROLS	CC-002	330-01	
C-003	SUPPLIED WITH EQUIPMENT	N/A	ULTRASONIC FLOW METER - TRANSMITTER	ULTRASONIC FLOW METER - SENSOR 1	PUMP STATION FLOW MEASUREMENT	INSTRUMENT	CC-003	330-01	
C-004	SUPPLIED WITH EQUIPMENT	N/A	ULTRASONIC FLOW METER - TRANSMITTER	ULTRASONIC FLOW METER - SENSOR 2	PUMP STATION FLOW MEASUREMENT	INSTRUMENT	CC-004	330-01	
C-005	1-1PAIR #16 AWG TW/SH	N/A	CONTROL SYSTEM RACK (CSR)	PRESSURE TRANSDUCER LIT-1 STILLING WELL	RIVER WATER LEVEL	INSTRUMENT	CC-005	400-01	
C-006	1-1PAIR #16 AWG TW/SH	N/A	CONTROL SYSTEM RACK (CSR)	PRESSURE TRANSDUCER LIT-2 STILLING WELL	MANIFOLD VAULT WATER LEVEL	INSTRUMENT	CC-006	400-01	
C-007	1-1PAIR #16 AWG TW/SH	N/A	CONTROL SYSTEM RACK (CSR)	TURBIDITY METER CONTROLLER	PUMP STATION TURBIDITY MEASUREMENT	INSTRUMENT	CC-007	410-05	
C-008	1-3/C #14 AWG	INCLUDED IN CABLE	CONTROL SYSTEM RACK (CSR)	TURBIDITY METER CONTROLLER	PUMP STATION TURBIDITY MEASUREMENT	CONTROLS	CC-008	410-05	
C-009	SUPPLIED WITH EQUIPMENT	N/A	TURBIDITY METER CONTROLLER	TURBIDITY METER	PUMP STATION TURBIDITY MEASUREMENT	INSTRUMENT	BY FIELD	410-05	
C-010	1-2PAIR #16 AWG TW/SH	INCLUDED IN CABLE	CONTROL SYSTEM RACK (CSR)	PUMP STATION DISCHARGE PRESSURE TRANSMITTER	PUMP STATION DISCHARGE PRESSURE MEASUREMENT	INSTRUMENT	CC-009	410-04	
C-011	12-1/C #14 AWG	N/A	SCREEN CONTROL PANEL	CONTROL SYSTEM RACK (CSR)	SCREEN CONTROL PANEL CONTROLS	CONTROLS	BY FIELD	-	1
C-012	1-4PAIR #16 AWG TW/SH	N/A	SCREEN CONTROL PANEL	CONTROL SYSTEM RACK (CSR)	SCREEN CONTROL PANEL CONTROLS	INSTRUMENT	BY FIELD	-	1
C-013	1-5/C #14 AWG	N/A	CONTROL SYSTEM RACK (CSR)	INDOOR FAN COIL UNIT FCU-3.1 INTERFACE BOX	HVAC CONTROLS	CONTROLS	CC-010	420-01	
C-014	1-5/C #14 AWG	N/A	INDOOR FAN COIL UNIT FCU-3.1 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-3.2 INTERFACE BOX	HVAC CONTROLS	CONTROLS	CC-011	420-01	
C-015	1-5/C #14 AWG	N/A	INDOOR FAN COIL UNIT FCU-3.2 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-2.1 INTERFACE BOX	HVAC CONTROLS	CONTROLS	CC-012	420-01	
C-016	1-5/C #14 AWG	N/A	INDOOR FAN COIL UNIT FCU-2.1 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-2.2 INTERFACE BOX	HVAC CONTROLS	CONTROLS	CC-013	420-01	
C-017	1-5/C #14 AWG	N/A	INDOOR FAN COIL UNIT FCU-2.2 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-1.2 INTERFACE BOX	HVAC CONTROLS	CONTROLS	CC-014	420-01	
C-018	1-5/C #14 AWG	N/A	INDOOR FAN COIL UNIT FCU-1.2 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-1.1 INTERFACE BOX	HVAC CONTROLS	CONTROLS	CC-015	420-01	
C-019	1-5/C #14 AWG	N/A	INDOOR FAN COIL UNIT FCU-1.1 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-5.2 INTERFACE BOX	HVAC CONTROLS	CONTROLS	CC-016	420-01	
C-020	1-5/C #14 AWG	N/A	INDOOR FAN COIL UNIT FCU-5.2 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-5.1 INTERFACE BOX	HVAC CONTROLS	CONTROLS	CC-017	420-01	
C-021	1-5/C #14 AWG	N/A	CONTROL SYSTEM RACK (CSR)	INDOOR FAN COIL UNIT FCU-4.1 INTERFACE BOX	HVAC CONTROLS	CONTROLS	CC-018	420-01	
C-022	1-5/C #14 AWG	N/A	INDOOR FAN COIL UNIT FCU-4.1 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-4.2 INTERFACE BOX	HVAC CONTROLS	CONTROLS	CC-019	420-01	
C-023	2-1/C #14 AWG	N/A	ELECTRIC UNIT HEATER UH-1	CONTROL SYSTEM RACK (CSR)	HVAC CONTROLS	CONTROLS	CC-020	420-01	
C-024	2-1/C #14 AWG	N/A	ELECTRIC UNIT HEATER UH-2	CONTROL SYSTEM RACK (CSR)	HVAC CONTROLS	CONTROLS	CC-021	420-01	
C-025	1-2PAIR #16 AWG TW/SH	N/A	EXHAUST FAN EF-1	CONTROL SYSTEM RACK (CSR)	HVAC CONTROLS	CONTROLS	CC-022	420-01	
C-026	1-1PAIR #16 AWG TW/SH	N/A	INDOOR THERMOSTAT TS-1	CONTROL SYSTEM RACK (CSR)	HVAC CONTROLS	INSTRUMENT	CC-023	420-01	
C-027	1-1PAIR #16 AWG TW/SH	N/A	OUTDOOR THERMOSTAT TS-2	CONTROL SYSTEM RACK (CSR)	HVAC CONTROLS	INSTRUMENT	CC-024	420-01	
C-028	4-1/C #14 AWG	N/A	ATS	STANDBY DIESEL ENGINE-GENERATOR	GENERATOR CONTROLS	CONTROLS	CC-025, DB2-13	-	1
C-029	7-1/C #14 AWG	N/A	ATS	CONTROL SYSTEM RACK (CSR)	ATS STATUS SIGNALS	CONTROLS	CC-025, DB3-09	-	1
C-030	7-1/C #14 AWG	N/A	STANDBY DIESEL ENGINE-GENERATOR	CONTROL SYSTEM RACK (CSR)	GENERATOR STATUS SIGNALS	CONTROLS	DB2-13, DB3-09	-	1
C-031	7-1/C #14 AWG	N/A	HIGH RESISTANCE GROUNDING RESISTOR	CONTROL SYSTEM RACK (CSR)	GROUNDING RESISTOR STATUS SIGNALS	CONTROLS	CC-026, DB3-09	-	
C-032	7-1/C #14 AWG	N/A	SURGE TANK CONTROLLER	CONTROL SYSTEM RACK (CSR)	SURGE TANK CONTROLLER STATUS	CONTROLS	CC-027	-	1
C-033	4-1/C #14 AWG	N/A	CONTROL SYSTEM RACK (CSR)	DOOR AND ROLL-UP DOOR LIMIT SWITCHES - SOUTH WALL	DOOR SWITCHES	CONTROLS	CC-028, BY FIELD	-	1
C-034	2-1/C #14 AWG	N/A	CONTROL SYSTEM RACK (CSR)	DOOR LIMIT SWITCH - NORTH WALL	DOOR SWITCHES	CONTROLS	CC-029	-	1
C-035	2-1/C #14 AWG	N/A	CONTROL SYSTEM RACK (CSR)	RECORDS ROOM DOOR SWITCH	DOOR SWITCHES	CONTROLS	BY FIELD	-	1
C-036	3-1/C #14 AWG	N/A	CONTROL SYSTEM RACK (CSR)	FIRE ALARM CONTROL PANEL (FACP)	FIRE ALARM STATUS	CONTROLS	BY FIELD	-	1
C-037	2-1/C #14 AWG	N/A	CONTROL SYSTEM RACK (CSR)	IP CAMERA SYSTEM UPS	CAMERA SYSTEM UPS MONITORING	CONTROLS	BY FIELD	-	1
C-038	2-1/C #14 AWG	N/A	CONTROL SYSTEM RACK (CSR)	SURGE TANK HEAT TRACE CONTROLLER	SURGE TANK HEAT TRACE ALARM	CONTROLS	CC-030	500-01	1
C-039	5-1/C #14 AWG	N/A	CONTROL SYSTEM RACK (CSR)	SURGE TANK CONTROLLER	SURGE TANK COMPRESSOR STATUS	CONTROLS	CC-027	500-01	1
C-040	1-1PAIR #16 AWG TW/SH	N/A	CONTROL SYSTEM RACK (CSR)	SURGE TANK CONTROLLER	SURGE TANK LEVEL SIGNAL	INSTRUMENT	CC-027	500-01	1
C-041	5-1/C #14 AWG	N/A	SURGE TANK CONTROLLER	SURGE TANK COMPRESSOR	SURGE TANK COMPRESSOR STATUS	CONTROLS	CC-031	500-01	1
C-042	1-1PAIR #16 AWG TW/SH	N/A	SURGE TANK LEVEL SENSOR	SURGE TANK CONTROLLER	SURGE TANK LEVEL SIGNAL	INSTRUMENT	BY FIELD	500-01	1

NOTES:
1. CABLE IS ASSUMED. REVIEW EQUIPMENT DOCUMENTATION AT BOTH ENDS TO VERIFY REQUIRED CABLING PRIOR TO RUNNING CABLE.
2. CABLE SIZING IS BASED ON MOTOR SIZE (1/2 HP). VERIFY CIRCUIT PROTECTION IN SCREEN CONTROL PANEL PRIOR TO RUNNING CABLE.
3. SPLIT CABLE EVENLY INTO THE 6 LISTED CONDUIT SUCH THAT EACH CONDUIT CONTAINS ONE OF EACH PHASE (400 MCM), AND A GROUND CONDUCTOR (#8 AWG).
4. SPLIT CABLE EVENLY INTO THE 6 LISTED CONDUIT SUCH THAT EACH CONDUIT CONTAINS ONE OF EACH PHASE (400 MCM), A GROUND CONDUCTOR (#8 AWG), AND A NEUTRAL CONDUCTOR (#2 AWG).
5. 1/6 OF THIS CABLE RUNS TO POWER TERMINAL BOX PTB VIA CONDUIT DB3-06 BEFORE CONTINUING TO THE ATS AS CABLE P-003A.
6. THIS CABLE CONNECTS TO THE LOAD (OUTPUT) SIDE OF THE ATS, AND BRINGS 2 PHASES, A NEUTRAL, AND A GROUND CONDUCTOR FOR CONNECTION TO THE HIGH-RESISTANCE GROUNDING RESISTOR. USE OFFSET LUGS TO MAKE CONNECTIONS.

REGISTERED PROFESSIONAL ENGINEER
91363PE
OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2025

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No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	MTD

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
MRB	BJL	MTD	5002-001	10-17-25	540-02

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU PUMP AND PIPELINE PRJECT
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Conduit No.	SIZE (IN)	TYPE	CONTAINS CABLES	FROM	TO	CATEGORY	NOTE
CC-001	0.75	RMC	C-001	CONTROL SYSTEM RACK (CSR)	ULTRASONIC FLOW METER - TRANSMITTER	INSTRUMENT	
CC-002	0.75	RMC	C-002	CONTROL SYSTEM RACK (CSR)	ULTRASONIC FLOW METER - TRANSMITTER	CONTROLS	
CC-003	0.75	PVC	C-003	ULTRASONIC FLOW METER - TRANSMITTER	ULTRASONIC FLOW METER - SENSOR 1	INSTRUMENT	1
CC-004	0.75	PVC	C-004	ULTRASONIC FLOW METER - TRANSMITTER	ULTRASONIC FLOW METER - SENSOR 2	INSTRUMENT	1
CC-005	0.75	PVC/RMC	C-005	CONTROL SYSTEM RACK (CSR)	PRESSURE TRANSDUCER LIT-1 STILLING WELL	INSTRUMENT	
CC-006	0.75	RMC	C-006	CONTROL SYSTEM RACK (CSR)	PRESSURE TRANSDUCER LIT-2 STILLING WELL	INSTRUMENT	
CC-007	0.75	RMC	C-007	CONTROL SYSTEM RACK (CSR)	TURBIDITY METER CONTROLLER	INSTRUMENT	
CC-008	0.75	RMC	C-008	CONTROL SYSTEM RACK (CSR)	TURBIDITY METER CONTROLLER	CONTROLS	
CC-009	0.75	PVC/RMC	C-010	CONTROL SYSTEM RACK (CSR)	PUMP STATION DISCHARGE PRESSURE TRANSMITTER	INSTRUMENT	
CC-010	0.75	RMC	C-013	CONTROL SYSTEM RACK (CSR)	INDOOR FAN COIL UNIT FCU-3.1 INTERFACE BOX	CONTROLS	
CC-011	0.75	RMC	C-014	INDOOR FAN COIL UNIT FCU-3.1 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-3.2 INTERFACE BOX	CONTROLS	
CC-012	0.75	RMC	C-015	INDOOR FAN COIL UNIT FCU-3.2 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-2.1 INTERFACE BOX	CONTROLS	
CC-013	0.75	RMC	C-016	INDOOR FAN COIL UNIT FCU-2.1 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-2.2 INTERFACE BOX	CONTROLS	
CC-014	0.75	RMC	C-017	INDOOR FAN COIL UNIT FCU-2.2 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-1.2 INTERFACE BOX	CONTROLS	
CC-015	0.75	RMC	C-018	INDOOR FAN COIL UNIT FCU-1.2 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-1.1 INTERFACE BOX	CONTROLS	
CC-016	0.75	RMC	C-019	INDOOR FAN COIL UNIT FCU-1.1 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-5.2 INTERFACE BOX	CONTROLS	
CC-017	0.75	RMC	C-020	INDOOR FAN COIL UNIT FCU-5.2 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-5.1 INTERFACE BOX	CONTROLS	
CC-018	0.75	RMC	C-021	CONTROL SYSTEM RACK (CSR)	INDOOR FAN COIL UNIT FCU-4.1 INTERFACE BOX	CONTROLS	
CC-019	0.75	RMC	C-022	INDOOR FAN COIL UNIT FCU-4.1 INTERFACE BOX	INDOOR FAN COIL UNIT FCU-4.2 INTERFACE BOX	CONTROLS	
CC-020	0.75	RMC	C-023	ELECTRIC UNIT HEATER UH-1	CONTROL SYSTEM RACK (CSR)	CONTROLS	
CC-021	0.75	RMC	C-024	ELECTRIC UNIT HEATER UH-2	CONTROL SYSTEM RACK (CSR)	CONTROLS	
CC-022	0.75	RMC	C-025	EXHAUST FAN EF-1	CONTROL SYSTEM RACK (CSR)	CONTROLS	
CC-023	0.75	RMC	C-026	INDOOR THERMOSTAT TS-1	CONTROL SYSTEM RACK (CSR)	INSTRUMENT	
CC-024	0.75	RMC	C-027	OUTDOOR THERMOSTAT TS-2	CONTROL SYSTEM RACK (CSR)	INSTRUMENT	
CC-025	2.00	RMC	C-028, C-029	PULLBOX PB-1	ATS	CONTROLS	6
CC-026	2.00	RMC	N-013, C-031	PULLBOX PB-1	HIGH RESISTANCE GROUNDING RESISTOR	CONTROLS	6
CC-027	1.00	PVC/RMC	C-032, C-039, C-040	SURGE TANK CONTROLLER	CONTROL SYSTEM RACK (CSR)	CONTROLS	1, 6
CC-028	0.75	RMC	C-033	CONTROL SYSTEM RACK (CSR)	SOUTH WALL DOOR AREA (BETWEEN)	CONTROLS	
CC-029	0.75	RMC	C-034	CONTROL SYSTEM RACK (CSR)	NORTH WALL - DOOR SWITCH	CONTROLS	
CC-030	1.00	PVC/RMC	C-038	CONTROL SYSTEM RACK (CSR)	SURGE TANK HEAT TRACE CONTROLLER	CONTROLS	1, 6
CC-031	0.75	PVC/RMC	C-041	SURGE TANK CONTROLLER	SURGE TANK COMPRESSOR	CONTROLS	1, 6
DB1-01	4.00	PVC	P-001	UEC PAD MOUNT XFMR	UEC METERING ENCLOSURE	POWER	2
DB1-02	4.00	PVC	P-001	UEC PAD MOUNT XFMR	UEC METERING ENCLOSURE	POWER	2
DB1-03	4.00	PVC	P-001	UEC PAD MOUNT XFMR	UEC METERING ENCLOSURE	POWER	2
DB1-04	4.00	PVC	P-001	UEC PAD MOUNT XFMR	UEC METERING ENCLOSURE	POWER	2
DB1-05	4.00	PVC	P-001	UEC PAD MOUNT XFMR	UEC METERING ENCLOSURE	POWER	2
DB1-06	4.00	PVC	P-001	UEC PAD MOUNT XFMR	UEC METERING ENCLOSURE	POWER	2
DB1A-01	4.00	PVC	P-001A	UEC METERING ENCLOSURE	ATS	POWER	2
DB1A-02	4.00	PVC	P-001A	UEC METERING ENCLOSURE	ATS	POWER	2
DB1A-03	4.00	PVC	P-001A	UEC METERING ENCLOSURE	ATS	POWER	2
DB1A-04	4.00	PVC	P-001A	UEC METERING ENCLOSURE	ATS	POWER	2
DB1A-05	4.00	PVC	P-001A	UEC METERING ENCLOSURE	ATS	POWER	2
DB1A-06	4.00	PVC	P-001A	UEC METERING ENCLOSURE	ATS	POWER	2
DB2-01	4.00	PVC	P-002	STANDBY DIESEL ENGINE-GENERATOR	ATS	POWER	3
DB2-02	4.00	PVC	P-002	STANDBY DIESEL ENGINE-GENERATOR	ATS	POWER	3
DB2-03	4.00	PVC	P-002	STANDBY DIESEL ENGINE-GENERATOR	ATS	POWER	3
DB2-04	4.00	PVC	P-002	STANDBY DIESEL ENGINE-GENERATOR	ATS	POWER	3
DB2-05	4.00	PVC	P-002	STANDBY DIESEL ENGINE-GENERATOR	ATS	POWER	3
DB2-06	4.00	PVC	P-002	STANDBY DIESEL ENGINE-GENERATOR	ATS	POWER	3
DB2-07	0.75	PVC	P-067	STANDBY DIESEL ENGINE-GENERATOR ACCESSORY LOAD CENTER	STANDBY DIESEL ENGINE-GENERATOR CONVENIENCE RECEPT	POWER	
DB2-08	0.75	PVC	P-068	STANDBY DIESEL ENGINE-GENERATOR ACCESSORY LOAD CENTER	STANDBY DIESEL ENGINE-GENERATOR BATTERY HTR	POWER	
DB2-09	0.75	PVC	P-069	STANDBY DIESEL ENGINE-GENERATOR ACCESSORY LOAD CENTER	STANDBY DIESEL ENGINE-GENERATOR ANTI-CONDENSATION HTR	POWER	
DB2-10	0.75	PVC	P-070	STANDBY DIESEL ENGINE-GENERATOR ACCESSORY LOAD CENTER	STANDBY DIESEL ENGINE-GENERATOR BATTERY CHARGER	POWER	
DB2-11	1.00	PVC	P-071	STANDBY DIESEL ENGINE-GENERATOR ACCESSORY LOAD CENTER	STANDBY DIESEL ENGINE-GENERATOR COOLANT HEATER	POWER	
DB2-12	1.00	PVC	P-051	PULLBOX PB-1	PUMP STATION EXTERIOR LIGHT POST	POWER	
DB2-13	2.00	PVC/RMC	C-028, C-030	PULLBOX PB-1	STANDBY DIESEL ENGINE-GENERATOR	CONTROLS	1, 6
DB2-14	2.00	PVC	SPARE	PULLBOX PB-1	STANDBY DIESEL ENGINE-GENERATOR PLATFORM AREA	SPARE	
DB3-01	4.00	PVC	P-003	ATS	MCC-1A	POWER	4
DB3-02	4.00	PVC	P-003	ATS	MCC-1A	POWER	4
DB3-03	4.00	PVC	P-003	ATS	MCC-1A	POWER	4
DB3-04	4.00	PVC	P-003	ATS	MCC-1A	POWER	4
DB3-05	4.00	PVC	P-003	ATS	MCC-1A	POWER	4
DB3-06	4.00	PVC	P-003	ATS	MCC-1A	POWER	4
DB3-07	2.00	PVC	P-041	LP-1	STANDBY DIESEL ENGINE-GENERATOR ACCESSORY LOAD CENTER	POWER	
DB3-08	2.00	PVC	P-051	PULLBOX PB-1	LP-1	POWER	
DB3-09	2.00	PVC/RMC	N-013, C-029, C-030, C-031	PULLBOX PB-1	CONTROL SYSTEM RACK (CSR)	CONTROLS	1, 6
DB3-10	2.00	PVC	SPARE	PULLBOX PB-1	AREA BELOW LP-1 (PUMP HOUSE INTERIOR)	SPARE	
DB3-11	2.00	PVC	SPARE	AREA BELOW LP-1 (PUMP HOUSE INTERIOR)	SPARE PULL BOX AND STUB-UP OUTSIDE FENCE GATE	SPARE	

NOTES:
1. RMC WHERE EXPOSED, PVC WHERE BURIED OR EMBEDDED.
2. DB1-01 THROUGH DB1-06 EACH CONTAIN 1/6 OF CABLE P-001.
3. DB2-01 THROUGH DB2-06 EACH CONTAIN 1/6 OF CABLE P-002.
4. DB3-01 THROUGH DB3-06 EACH CONTAIN 1/6 OF CABLE P-003.
5. SEAL THE UNUSED END OF THE CONDUIT (INDICATED BY THE WORD "FUTURE") TO PREVENT MOISTURE INTRUSION.
6. CONDUIT SIZE BASED ON ASSUMED CABLE SIZE. REVIEW EQUIPMENT DOCUMENTATION AT BOTH ENDS TO VERIFY REQUIRED CABLING PRIOR TO INSTALLING CONDUIT.
7. CABLE IS NOT INSTALLED, SPACE RESERVATION FOR FUTURE INSTALLATION. SEE CABLE SCHEDULE.
8. FOR CABLE TRAY DETAILS, SEE DRAWING 500-02. SOME CABLES SHOWN ARE SPACE RESERVATIONS FOR FUTURE INSTALLATION, SEE CABLE SCHEDULE. TRAY SHALL BE ALUMINUM LADDER TYPE, AND HAVE A WEIGHT CAPACITY OF 75LB/FT MINIMUM.

REGISTERED PROFESSIONAL ENGINEER
91363PE
OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2025

Know what's below. Call before you dig.

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	MTD

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
MRB	BJL	MTD	5002-001	10-17-25	540-03

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU PUMP AND PIPELINE PRJECT
INTAKE AND PUMP STATION

ELECTRICAL - SCHEDULES
CONDUIT (1)

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Conduit No.	SIZE (IN)	TYPE	CONTAINS CABLES	FROM	TO	CATEGORY	NOTE
NC-001A	2.00	PVC	N-001	WATER TREATEMENT PLANT (REMOTE)	FIBER-OPTIC PATCH PANEL	NETWORKING	
NC-001B	2.00	PVC	SPARE	WATER TREATEMENT PLANT (REMOTE)	FLOOR BELOW FIBER-OPTIC PATCH PANEL (CAP)	NETWORKING	
NC-002	0.75	RMC	N-002	FIBER-OPTIC PATCH PANEL	CONTROL SYSTEM RACK (CSR)	NETWORKING	
NC-003	1.25	PVC	N-003, N-004, N-005, N-006, N-007, N-008, N-009, N-010	MCC-1A	MCC-1B	NETWORKING	
NC-004	0.75	PVC/RMC	N-011	CONTROL SYSTEM RACK (CSR)	MCC-1A	NETWORKING	
NC-005	0.75	RMC	N-012	SCREEN CONTROL PANEL	CONTROL SYSTEM RACK (CSR)	NETWORKING	6
PC-001	2.00	PVC/RMC	P-004	MCC-1A	PP-1	POWER	1
PC-002	1.00	RMC	P-005	MCC-1A	SUMP PUMP P9	POWER	1
PC-003	1.25	RMC	P-006	MCC-1A	XFMR-T1	POWER	
PC-004	2.00	RMC	P-007	XFMR-T1	LP-1	POWER	
PC-005	1.00	PVC/RMC	P-008	MCC-1A	SCREEN CONTROL PANEL	POWER	1
PC-006	0.75	PVC/RMC	P-009	SCREEN CONTROL PANEL	DRUM SCREEN IS-1	POWER	
PC-007	0.75	PVC/RMC	P-010	SCREEN CONTROL PANEL	DRUM SCREEN IS-2	POWER	
PC-008	0.75	PVC/RMC	P-011	SCREEN CONTROL PANEL	DRUM SCREEN IS-3 (FUTURE)	POWER	5, 7
PC-009	4.00	PVC	P-013	MCC-1A	ACTIVE HARMONIC FILTER AHF-1	POWER	
PC-010	4.00	PVC/RMC	P-014	MCC-1A	CABLE TRAY TR1-N	POWER	1
PC-011	4.00	PVC/RMC	P-014	CABLE TRAY TR1-N	ACTIVE HARMONIC FILTER AHF-2	POWER	1
PC-012	0.75	RMC	P-025	PP-1	ELECTRIC UNIT HEATER UH-1	POWER	
PC-013	0.75	RMC	P-026	PP-1	ELECTRIC UNIT HEATER UH-2	POWER	
PC-014	0.75	RMC	P-037	LP-1	CABLE TRAY TR1-N	POWER	5, 7
PC-015	0.75	RMC	P-038	LP-1	CABLE TRAY TR1-N	POWER	5, 7
PC-016	0.75	RMC	P-039	LP-1	CABLE TRAY TR1-N	POWER	
PC-017	0.75	RMC	P-040	LP-1	CABLE TRAY TR1-N	POWER	
PC-018	0.75	RMC	P-042	LP-1	INTAKE SCREEN CONTROL PANEL	POWER	
PC-019	0.75	RMC	P-043	LP-1	CONTROL SYSTEM RACK (CSR)	POWER	
PC-020	2.00	RMC	P-044	LP-1	LP-2	POWER	
PC-021	0.75	RMC	P-052	LP-2	OUTDOOR COIL UNIT ODU-1	POWER	
PC-022	0.75	RMC	P-053, P-054	LP-2	PULL BOX NEAR INDOOR FAN COIL UNIT FCU-1.2	POWER	
PC-023	0.75	RMC	P-054	PULL BOX NEAR INDOOR FAN COIL UNIT FCU-1.2	INDOOR FAN COIL UNIT FCU-1.2	POWER	
PC-024	0.75	RMC	P-053	PULL BOX NEAR INDOOR FAN COIL UNIT FCU-1.2	INDOOR FAN COIL UNIT FCU-1.1	POWER	
PC-025	0.75	RMC	P-056	LP-2	OUTDOOR COIL UNIT ODU-2	POWER	
PC-026	0.75	RMC	P-055, P-057	LP-2	PULL BOX NEAR INDOOR FAN COIL UNIT FCU-2.1	POWER	
PC-027	0.75	RMC	P-055	PULL BOX NEAR INDOOR FAN COIL UNIT FCU-2.1	INDOOR FAN COIL UNIT FCU-2.1	POWER	
PC-028	0.75	RMC	P-057	PULL BOX NEAR INDOOR FAN COIL UNIT FCU-2.1	INDOOR FAN COIL UNIT FCU-2.2	POWER	
PC-029	0.75	RMC	P-060	LP-2	OUTDOOR COIL UNIT ODU-3	POWER	
PC-030	0.75	RMC	P-058, P-059	LP-2	PULL BOX NEAR INDOOR FAN COIL UNIT FCU-3.1	POWER	
PC-031	0.75	RMC	P-058	PULL BOX NEAR INDOOR FAN COIL UNIT FCU-3.1	INDOOR FAN COIL UNIT FCU-3.1	POWER	
PC-032	0.75	RMC	P-059	PULL BOX NEAR INDOOR FAN COIL UNIT FCU-3.1	INDOOR FAN COIL UNIT FCU-3.2	POWER	
PC-033	0.75	RMC	P-061	LP-2	CABLE TRAY TR1-N	POWER	
PC-034	0.75	RMC	P-062	LP-2	CABLE TRAY TR1-N	POWER	
PC-035	0.75	RMC	P-063	LP-2	CABLE TRAY TR1-N	POWER	
PC-036	0.75	RMC	P-064	LP-2	CABLE TRAY TR1-N	POWER	
PC-037	0.75	PVC/RMC	P-023	PP-1	WET WELL SUPPLY GATE SG-1	POWER	1
PC-038	0.75	PVC/RMC	P-024	PP-1	WET WELL SUPPLY GATE SG-2	POWER	1
PC-039	0.75	PVC/RMC	P-027	PP-1	DRUM SCREEN WINCH #1	POWER	1
PC-040	0.75	PVC/RMC	P-028	PP-1	DRUM SCREEN WINCH #2	POWER	1
PC-041	0.75	PVC/RMC	P-029	PP-1	DRUM SCREEN WINCH #3 (FUTURE)	POWER	1, 5, 7
PC-042	0.75	PVC/RMC	P-030	PP-1	SURGE TANK COMPRESSOR	POWER	1, 6
PC-043	0.75	RMC	P-031	LP-1	OUTDOOR COIL UNIT ODU-4	POWER	
PC-044	0.75	RMC	P-032, P-033	LP-1	PULL BOX NEAR INDOOR FAN COIL UNIT FCU-4.1	POWER	
PC-045	0.75	RMC	P-032	PULL BOX NEAR INDOOR FAN COIL UNIT FCU-4.1	INDOOR FAN COIL UNIT FCU-4.1	POWER	
PC-046	0.75	RMC	P-033	PULL BOX NEAR INDOOR FAN COIL UNIT FCU-4.1	INDOOR FAN COIL UNIT FCU-4.2	POWER	
PC-047	0.75	RMC	P-034	LP-1	OUTDOOR COIL UNIT ODU-5	POWER	
PC-048	0.75	RMC	P-035, P-036	LP-1	PULL BOX NEAR INDOOR FAN COIL UNIT FCU-5.2	POWER	
PC-049	0.75	RMC	P-035	PULL BOX NEAR INDOOR FAN COIL UNIT FCU-5.2	INDOOR FAN COIL UNIT FCU-5.1	POWER	
PC-050	0.75	RMC	P-036	PULL BOX NEAR INDOOR FAN COIL UNIT FCU-5.2	INDOOR FAN COIL UNIT FCU-5.2	POWER	
PC-051	0.75	PVC	P-045	LP-1	SURGE TANK HEAT TRACE CONTROLLER	POWER	6
PC-052	0.75	RMC	P-012	MCC-1A	EXHAUST FAN EF-1	POWER	1
PC-053	2.00	RMC	P-003A	ATS	GROUNDING RESISTOR FUSED DISCONNECT	POWER	
PC-054	1.00	PVC/RMC	P-003B	GROUNDING RESISTOR FUSED DISCONNECT	HIGH RESISTANCE GROUNDING RESISTOR	POWER	1
PC-055	0.75	RMC	P-074	LP-1	BUS DUCT ANTI-CONDENSATION HEATER	POWER	6
PC-056	0.75	PVC/RMC	P-075	LP-1	SURGE TANK CONTROLLER	POWER	1, 6
TR1-N	24" x 6"	TRAY	P-014, P-015, P-016, P-017, P-018, P-019, P-020, P-021, P-022, P-037, P-038, P-039, P-040, P-061, P-062, P-063, P-064	RUNS ALONG NORTH PUMP STATION WALL		POWER	8
TR1-P1	12" x 6	TRAY	P-015, P-016, P-037, P-038	TR1-N	BETWEEN PUMPS 1 AND 2	POWER	8
TR1-P3	12" x 6	TRAY	P-017, P-018, P-039, P-040	TR1-N	BETWEEN PUMPS 3 AND 4	POWER	8
TR1-P5	12" x 6	TRAY	P-019, P-020, P-061, P-062	TR1-N	BETWEEN PUMPS 5 AND 6	POWER	8
TR1-P7	12" x 6	TRAY	P-021, P-022, P-063, P-064	TR1-N	BETWEEN PUMPS 7 AND 8	POWER	8

NOTES:
1. RMC WHERE EXPOSED, PVC WHERE BURIED OR EMBEDDED.
2. DB1-01 THROUGH DB1-06 EACH CONTAIN 1/6 OF CABLE P-001.
3. DB2-01 THROUGH DB2-06 EACH CONTAIN 1/6 OF CABLE P-002.
4. DB3-01 THROUGH DB3-06 EACH CONTAIN 1/6 OF CABLE P-003.
5. SEAL THE UNUSED END OF THE CONDUIT (INDICATED BY THE WORD "FUTURE") TO PREVENT MOISTURE INTRUSION.
6. CONDUIT SIZE BASED ON ASSUMED CABLE SIZE. REVIEW EQUIPMENT DOCUMENTATION AT BOTH ENDS TO VERIFY REQUIRED CABLING PRIOR TO INSTALLING CONDUIT.
7. CABLE IS NOT INSTALLED, SPACE RESERVATION FOR FUTURE INSTALLATION. SEE CABLE SCHEDULE.
8. FOR CABLE TRAY DETAILS, SEE DRAWING 500-02. SOME CABLES SHOWN ARE SPACE RESERVATIONS FOR FUTURE INSTALLATION, SEE CABLE SCHEDULE. TRAY SHALL BE ALUMINUM LADDER TYPE, AND HAVE A WEIGHT CAPACITY OF 75LB/FT MINIMUM.

Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER
91363PE
OREGON
JULY 12, 2016
MATTHEW TYLER DAVIS

RENEWAL DATE: 12/31/2025

No.	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10-17-25	BJL	MTD

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Designed	Drawn	Checked	Project No.	Date Revised	Drawing No.
MRB	BJL	MTD	5002-001	10-17-25	540-04

CITY OF UMATILLA
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CTUIR/COU PUMP AND PIPELINE PRJECT
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3" 2" 1" 0 22x34 = FULL SCALE

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PROJECT CODE ANALYSIS

BUILDING CODE: OREGON STRUCTURAL SPECIALTY CODE 2022 (OSSC)
INTERNATIONAL CODE COUNCIL (ICC) A117.1-2017
2019 OREGON FIRE CODE (OFC)
2021 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC)

ADDRESS: 46411 TIMINE WAY PENDLETON, OR 97801

OCCUPANCY TYPE: F-1 MODERATE-HAZARD FACTORY INDUSTRIAL

CONSTRUCTION TYPE: TYPE IIB

OVERALL BUILDING AREA: 1,137 SF

CHAPTER 3 - OCCUPANCY CLASSIFICATION AND USE

WATER PROCESS AREA: GROUP F-1, MODERATE-HAZARD FACTORY INDUSTRIAL

CHAPTER 5 - GENERAL BUILDING HEIGHT AND AREAS

FOR TYPE II-B CONSTRUCTION, NON SPRINKLERED FOR NONSEPERATED USES PER 508.4.2

		ALLOWABLE	PROPOSED
BUILDING HEIGHT:		55 '- 0"	21' - 0"
STORIES ABOVE GRADE PLANE:		2	1
BUILDING AREA (Aa)	F-1	15,500 SF	1,054 SF

508.3 NONSEPARATED OCCUPANCIES - OCCUPANCY PROVISIONS OF GROUP F-1 APPLY TO TOTAL NONSEPARATED OCCUPANCY AREAS OF BUILDING INCLUDING AREA, HEIGHT, AND STORIES.

CHAPTER 6 - TYPES OF CONSTRUCTION

SECTION 601 FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS
- TYPE IIB, NONCOMBUSTIBLE MATERIALS AS PERMITTED BY OSSC.
- NO FIRE RESISTANCE RATING AT EXTERIOR WALL PER TABLE 601.

CHAPTER 7 - FIRE AND SMOKE PROTECTION

- 705.2 PROJECTIONS - SHALL BE NONCOMBUSTIBLE
- FIRE SEPARATION DISTANCE FOR ALL WALLS IS >30 FEET. NO FIRE RATED WALLS REQUIRED
- OPENINGS - NO LIMIT TO AREA OR PROTECTION REQUIRED.

CHAPTER 9 - FIRE PROTECTION AND LIFE SAFETY SYSTEMS

SECTION 903.2.4 – NO AUTOMATIC FIRE SPRINKLER SYSTEM REQUIRED.

CHAPTER 10 - MEANS OF EGRESS

SECTION 1004 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT:
- STORAGE AREAS AND MECHANICAL EQUIPMENT ROOMS = 300 GROSS

OCCUPANT LOAD:
SEE OCCUPANCY TABLE BELOW AND OCCUPANCY FLOOR PLAN THIS DRAWING

OCCUPANCY TABLE

FUNCTION	OCC GROUP	AREA	LOAD FACTOR	OCC #
PROCESS	F-1	1,099 SF	300	4
RECORDS	F-1	117 SF	300	1
		1,216 SF		5

SECTION 1006.2.1 - COMMON PATH OF EGRESS TRAVEL DISTANCE FOR BUILDINGS WITHOUT SPRINKLER SYSTEMS (SPACES WITH ONE EXIT):
- F OCCUPANCIES, 75 FEET MAXIMUM, 49 MAXIMUM OCCUPANT LOAD

SECTION 1017.2 - EXIT ACCESS TRAVEL DISTANCE IN BUILDINGS WITHOUT SPRINKLER SYSTEMS:
- F-1 OCCUPANCIES, 200 FEET

SECTION 1007.1 - EXITS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN THEM

CHAPTER 11 - ACCESSIBILITY

ALL NEW SPACES TO BE FULLY ACCESSIBLE PER OSSC AND ANSI A117.1

CHAPTER 29 - PLUMBING

SECTION 2902.3.3 1 RESTROOM REQUIRED FOR THIS OCCUPANCY PER CHAPTER 29. AS BUILDING IS PRIMARILY UNOCCUPIED, EXCEPT FOR PERIODIC MAINTENANCE, NO PERMANENT RESTROOM IS PROVIDED AT THIS LOCATION. PER 2902.3.3, EXCEPTION # 2, PUBLIC RESTROOMS MAY BE ACCESSED AT MCNARY BEACH; IF EXTENDED WORK IS PROPOSED ONSITE A PORTABLE RESTROOM WILL BE PROVIDED FOR THE DURATION OF THE WORK.

2021 OEESC- ENERGY EFFICIENCY CODE

ENVELOPE DESIGN PER ASHRAE 90.1 - 2019
CLIMATE ZONE: 5B
NON-RESIDENTIAL CONDITIONED SPACE
BUILDING ENVELOPE TRADE-OFF COMPLIANCE PATH

ENERGY CODE ANALYSIS

	ASSEMBLY MAXIMUM	INSULATION MIN. R-VALUE
ROOF W/ INSULATION ENTIRELY ABOVE DECK	U-0.026	R-38 CI
MASS WALLS ABOVE GRADE	U-0.070	R-11.4 CI
SLAB-ON-GRADE FLOORS UNHEATED	N/A	N/A
SWINGING OPAQUE DOOR	U-0.370	
NONSWINGING OPAQUE DOOR	U-0.310	
FIXED FENESTRATION	U-0.38	
ENTRANCE DOOR	U-0.63	
ROOF HATCH	U-0.50	

CI - CONTINUOUS INSULATION

CONTINUOUS AIR BARRIER: PER 5.4.3.1 TO BE INSTALLED AS FOLLOWS:
- CONTINUOUS AIR BARRIER NOTED IN DETAILS. THE FOLLOWING AREAS ARE TO BE WRAPPED, SEALED, CAULKED, GASKETED, OR TAPED TO MINIMIZE AIR LEAKAGE.
  1. JOINTS AT DOORS AND WINDOWS
  2. JUNCTIONS BETWEEN WALLS AND FLOORS, BETWEEN WALLS AT CORNERS AND BETWEEN WALLS AND ROOF.
  3. ALL PENETRATIONS OF AIR BARRIER
  4. ANY CHANGE IN MATERIAL OF CONTINUOUS AIR BARRIER

GRAPHIC LEGEND

DETAIL NUMBER
DETAIL CALLOUTS
SHEET ON WHICH DETAIL IS SHOWN

ELEVATION NUMBER
EXTERIOR ELEVATIONS
SHEET ON WHICH ELEVATION IS SHOWN

ELEVATION NUMBER
INTERIOR ELEVATIONS
SHEET ON WHICH ELEVATION IS SHOWN

SECTION NUMBER
BUILDING SECTIONS
SHEET ON WHICH SECTION IS SHOWN

FLOOR LEVEL NAME
FLOOR LEVELS
0'-0" VERTICAL ELEVATION

NORTH ARROW

DRAWING REVISION

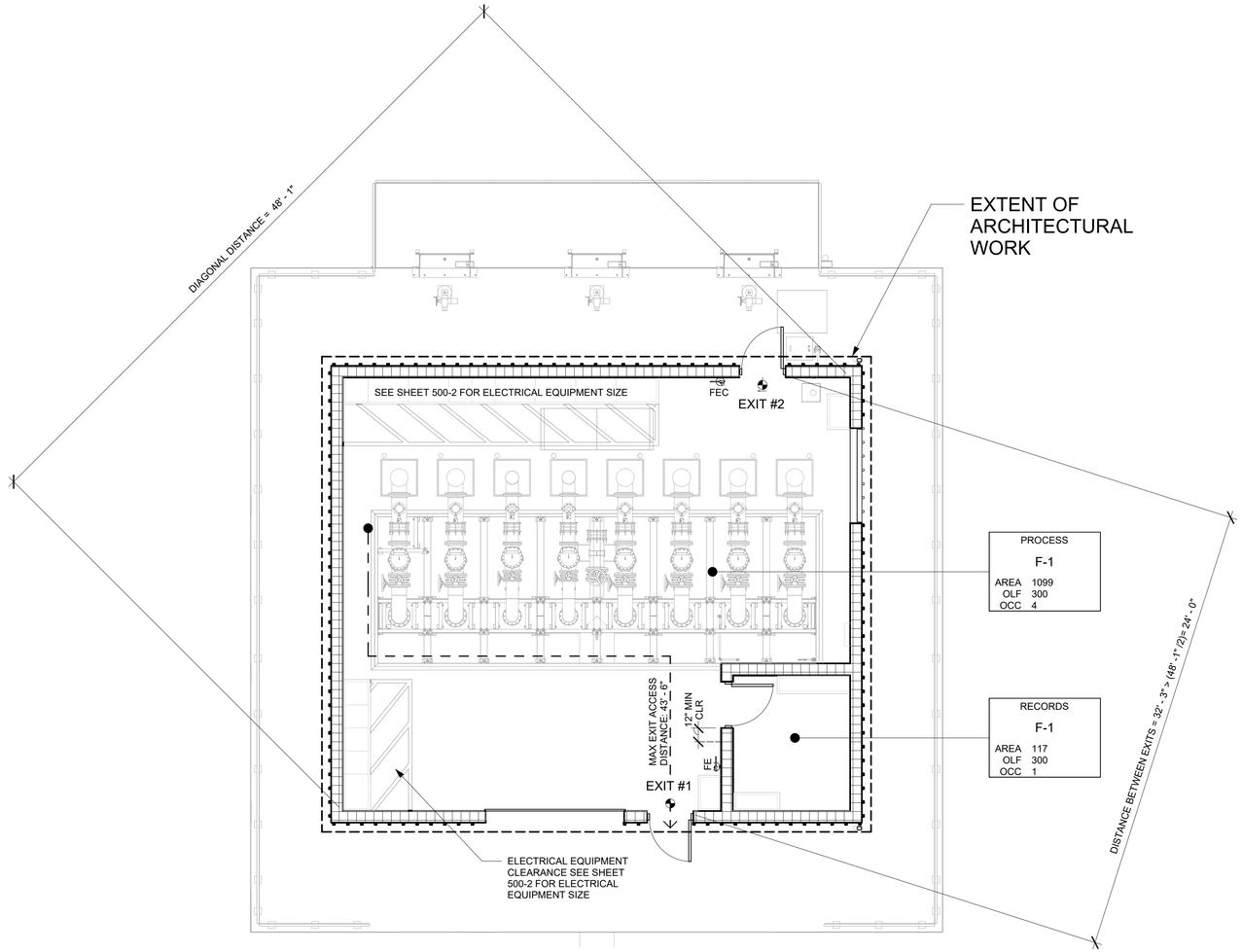
DOOR OPENING NUMBER

ROOM NAME
? SF
ROOM TAG

WINDOW TAG

PARTITION TYPE TAG

KEYNOTE



1 CODE PLAN
3/16" = 1'-0"

NORTH

811 Know what's below. Call before you dig.

CONVERGENCE ARCHITECTURE
PROJECT NO. 7054

No.	Revision	Date	Drawn	Checked
0	ISSUE FOR BID	10/17/25	AP	EE

REGISTERED ARCHITECT ELIJAH S. ELDER PORTLAND, OR 5274 STATE OF OREGON

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UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT

BUILDING CODE NOTES AND TABLES

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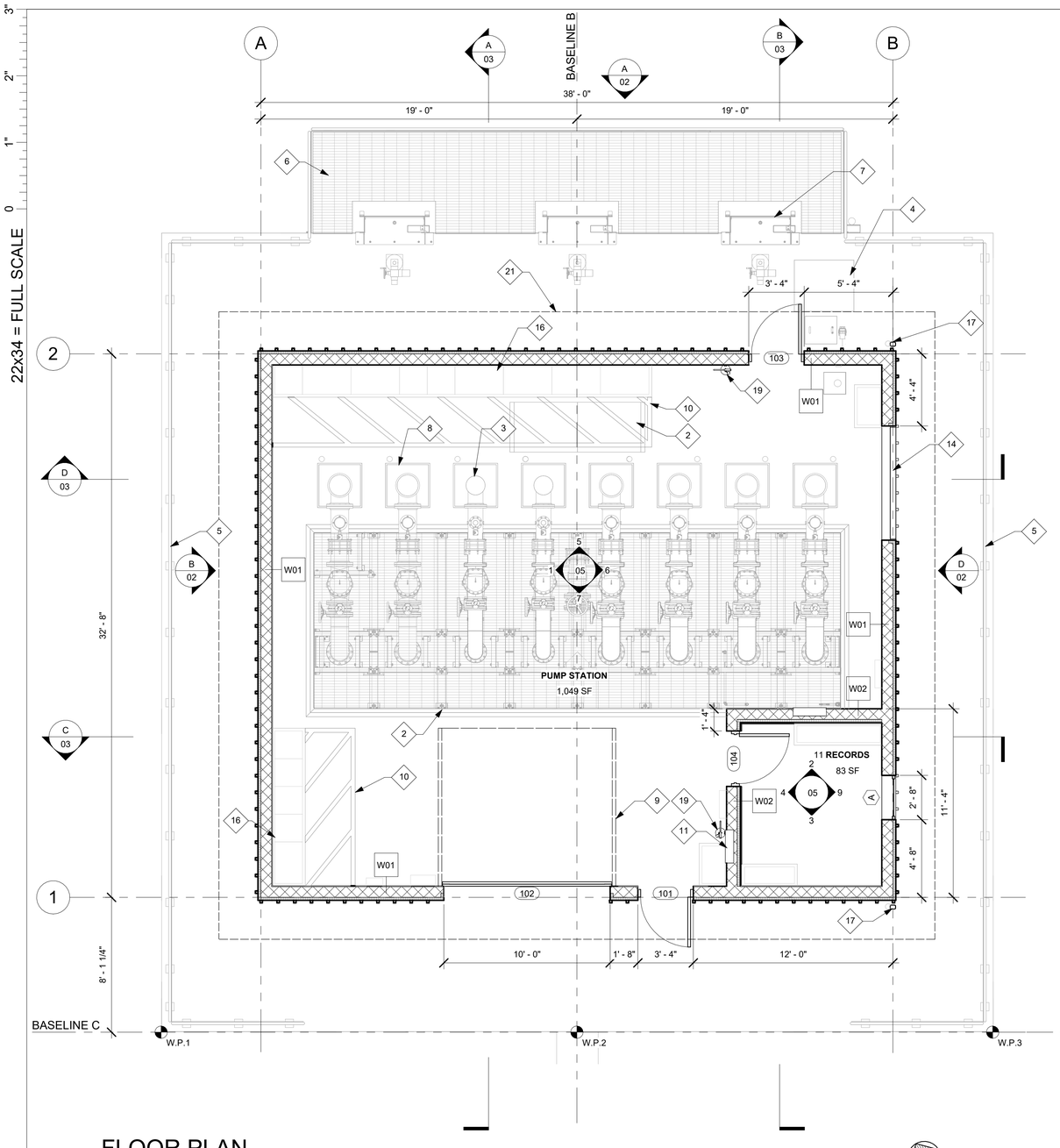
Project No.	Date Revised	Drawing No.
5002-01	10-17-25	600-00

PRINTED: 10/21/2025 10:54:18 AM

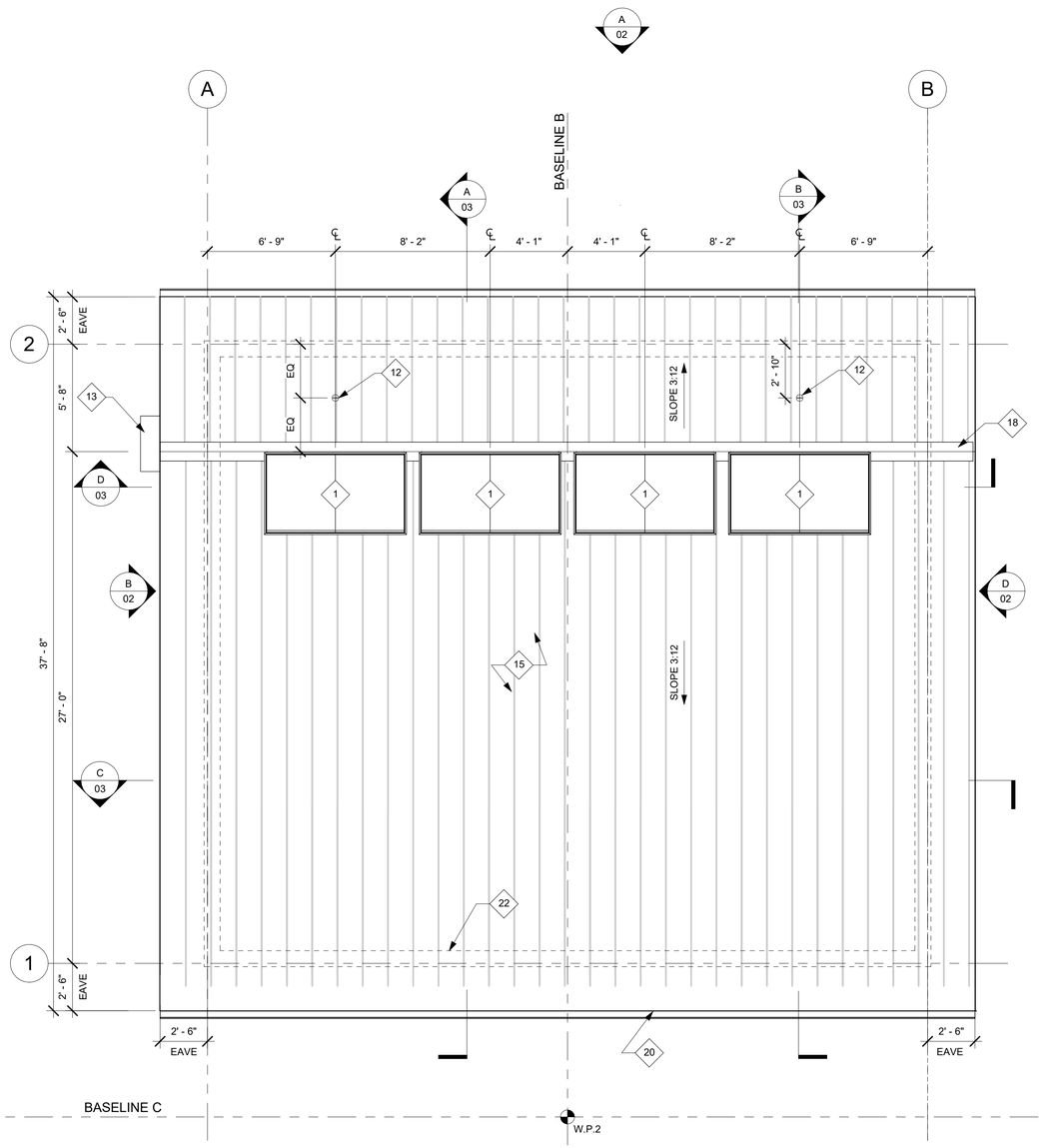
3" 2" 1" 0 22x34 = FULL SCALE

22x34 = FULL SCALE



FLOOR PLAN

1/4" = 1'-0"



ROOF

1/4" = 1'-0"

GENERAL NOTES

A. ALL DIMENSIONS FROM FACE OF CMU UNLESS NOTED OTHERWISE.

B. AREAS BEYOND EXTERIOR WALL OR STRUCTURE SHOWN FOR REFERENCE ONLY.

C. SPLIT SYSTEM UNIT ABOVE SEE 400 SERIES - TYP.

D. WINDOWS ABOVE - SILL. SEE 400 SERIES - TYP

KEYNOTES

1 ROOF EQUIPMENT HATCH
2 MANIFOLD VAULT GRATING
3 PUMP MOTOR TOWER - TYP.
4 ACCESS HATCH
5 GUARDRAIL, SEE 300 SERIES
6 FISH SCREEN ACCESS PLATFORM
7 SLIDE GATES AND FISH SCREENS SEE 400 SERIES
8 CONCRETE EQUIPMENT PEDESTAL FOR FUTURE WATER PUMP TOWER
9 OVERHEAD DOOR TRACK ABOVE
10 MARKED CLEARANCE FOR ELECTRICAL SAFETY ZONE, SEE 500 SERIES
11 TRANSFER GRILLE, SEE 400 SERIES
12 SAFETY TIE OFF
13 HVAC HOOD BELOW
14 LOUVER, SEE 400 SERIES
15 PREFINISHED STANDING SEAM METAL ROOF
16 MOTOR CONTROL PANELS, SEE SHEET 500-2 FOR ELECTRICAL EQUIPMENT SIZE
17 DOWNSPOUT TO EMBEDDED PIPE, SEE 200 AND 300 SERIES
18 PREFINISHED RIDGECAP
19 FIRE EXTINGUSHER
20 PREFINISHED METAL GUTTER
21 LINE OF EAVE ABOVE
22 LINE OF EXTERIOR WALL BELOW

CONVERGENCE ARCHITECTURE

PROJECT NO. 7054

REGISTERED ARCHITECT
ELIJAH S. ELDER
PORTLAND, OR
5274
STATE OF OREGON

No.	Revision	Date	Drawn	Checked
0	ISSUE FOR BID	10/17/25	AP	EE

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AP EE

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT

BUILDING ROOF AND FLOOR PLAN

Kleinschmidt
888-224-5942
KleinschmidtGroup.com

Project No.	Date Revised	Drawing No.
5002-01	10-17-25	600-01

811 Know what's below. Call before you dig.

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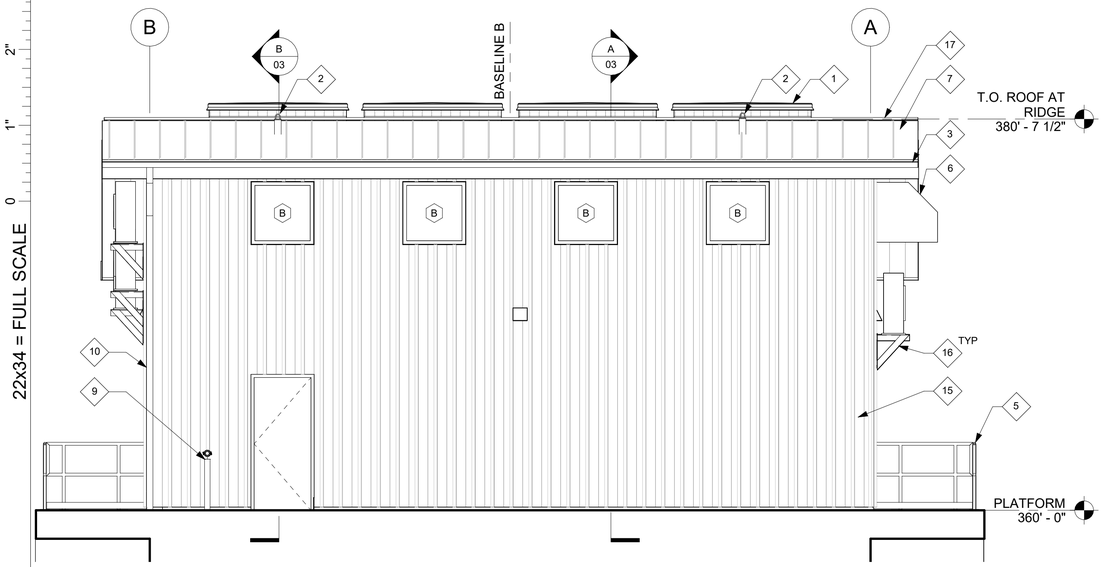
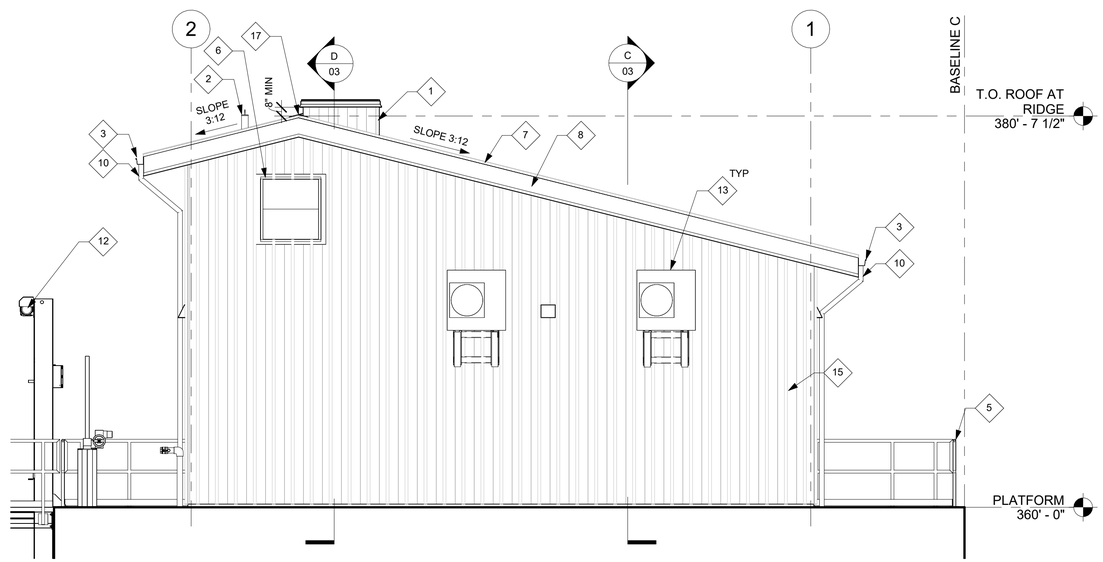
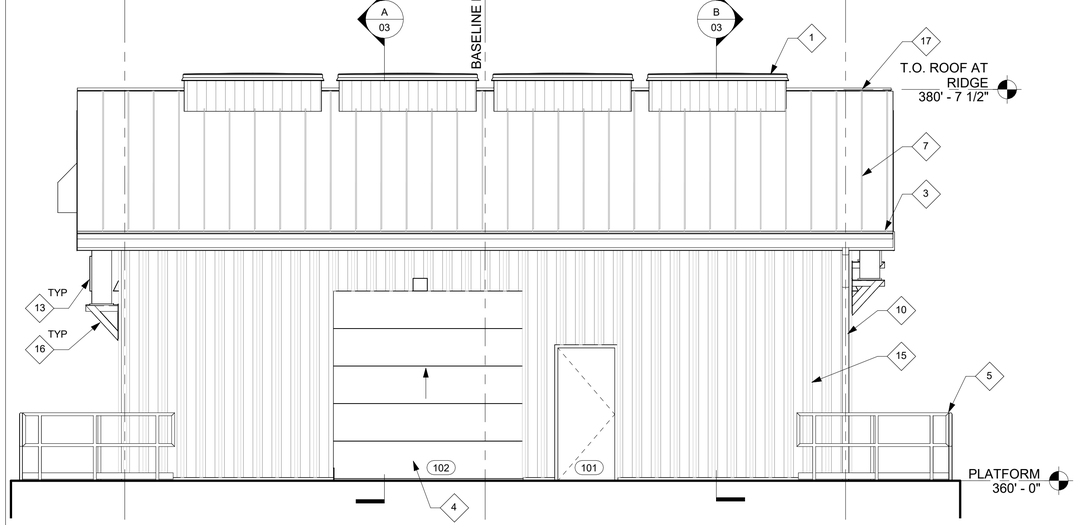
22x34 = FULL SCALE



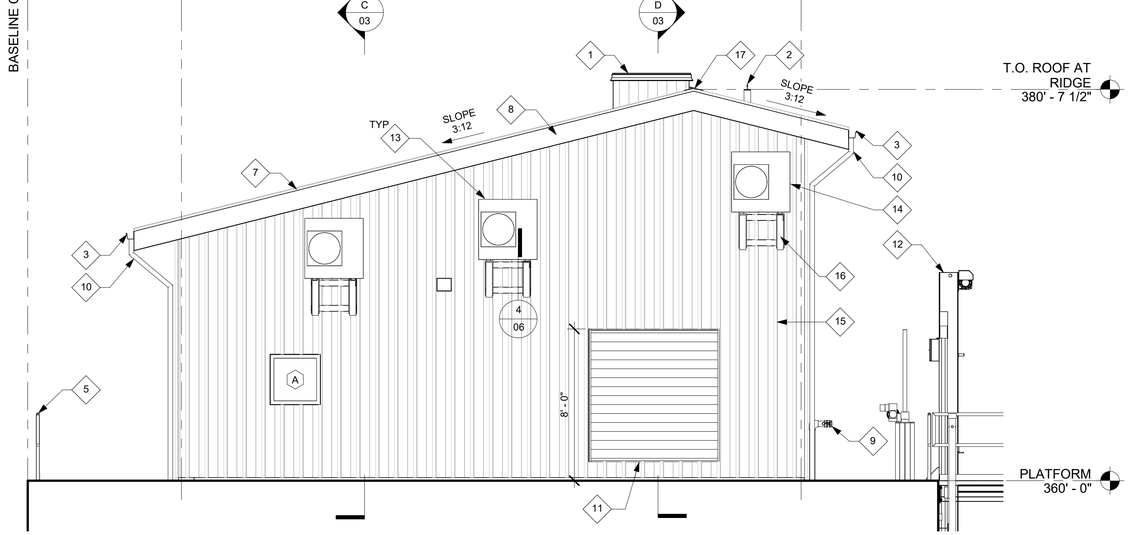
NORTH ELEVATION
1/4" = 1'-0"
A 02



WEST ELEVATION
1/4" = 1'-0"
B 02



SOUTH ELEVATION
1/4" = 1'-0"
C 02



EAST ELEVATION
1/4" = 1'-0"
D 02

Know what's below. Call before you dig.

GENERAL NOTES

A. SEE ELECTRICAL SERIES 500 FOR EXTERIOR LIGHTING LOCATIONS.
B. SEE MECHANICAL 400 SERIES AND ELECTRICAL SERIES 500 FOR EXTERIOR EQUIPMENT LOCATIONS.

KEYNOTES

1 ROOF EQUIPMENT HATCH. PROVIDE POSITIVE DRAINAGE 1/8" PER FOOT TYP.
2 SAFETY TIE OFF
3 PREFINISHED METAL GUTTER
4 INSULATED SECTIONAL DOOR, SEE 600-07
5 GUARDRAIL, SEE 300 SERIES
6 FAN HOOD, SEE 400 SERIES
7 PREFINISHED STANDING SEAM METAL ROOF
8 PREFINISHED METAL FASCIA
9 WATER PUMP EQUIPMENT - SEE 200 AND 400 SERIES
10 <varies>
11 LOUVER, SEE 400 SERIES
12 SLIDE GATES AND FISH SCREENS SEE 400 SERIES
13 SPLIT SYSTEM UNIT, SEE 400 SERIES
14 SPLIT SYSTEM UNIT, ALIGN TOP OF UNIT TO TOP OF ADJACENT WINDOW
15 PREFINISHED METAL SIDING
16 STRUCTURAL SUPPORT FOR SPLIT SYSTEM - SEE 320 SERIES
17 PREFINISHED RIDGECAP

CONVERGENCE ARCHITECTURE
PROJECT NO. 7054

REGISTERED ARCHITECT ELIJAH S. ELDER PORTLAND, OR 5274 STATE OF OREGON

No.	Revision	Date	Drawn	Checked
0	ISSUE FOR BID	10/17/25	AP	EE

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT

BUILDING ELEVATIONS

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Project No.	Date Revised	Drawing No.
5002-01	10-17-25	600-02

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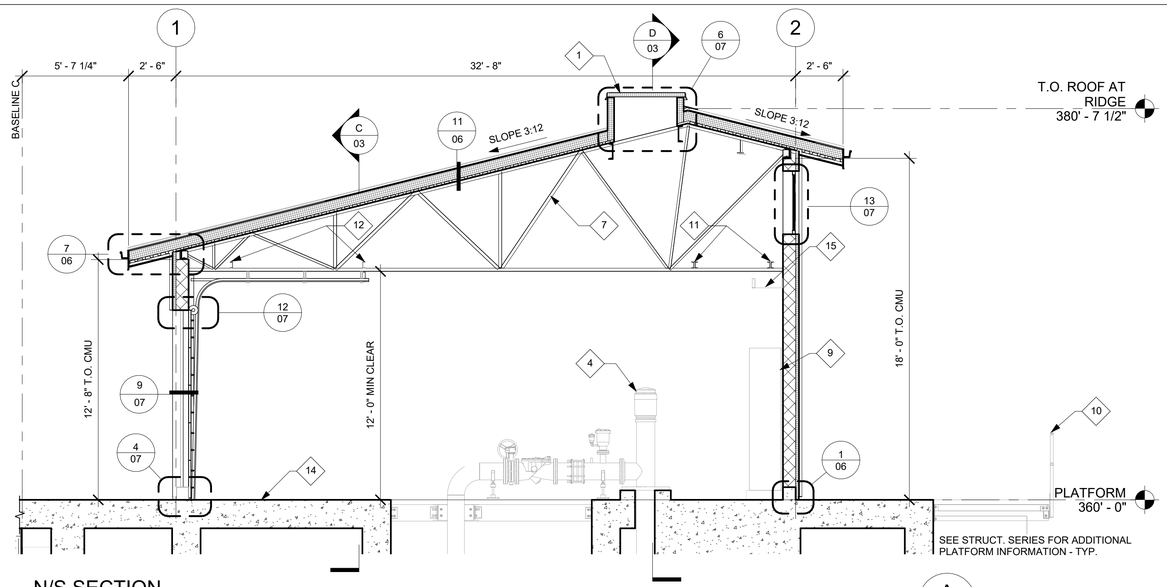
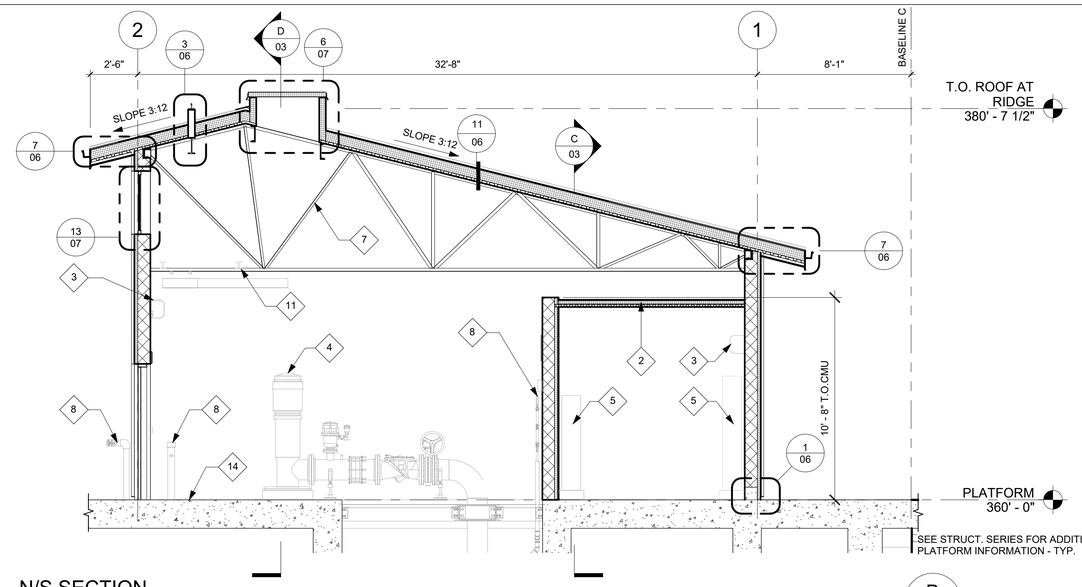
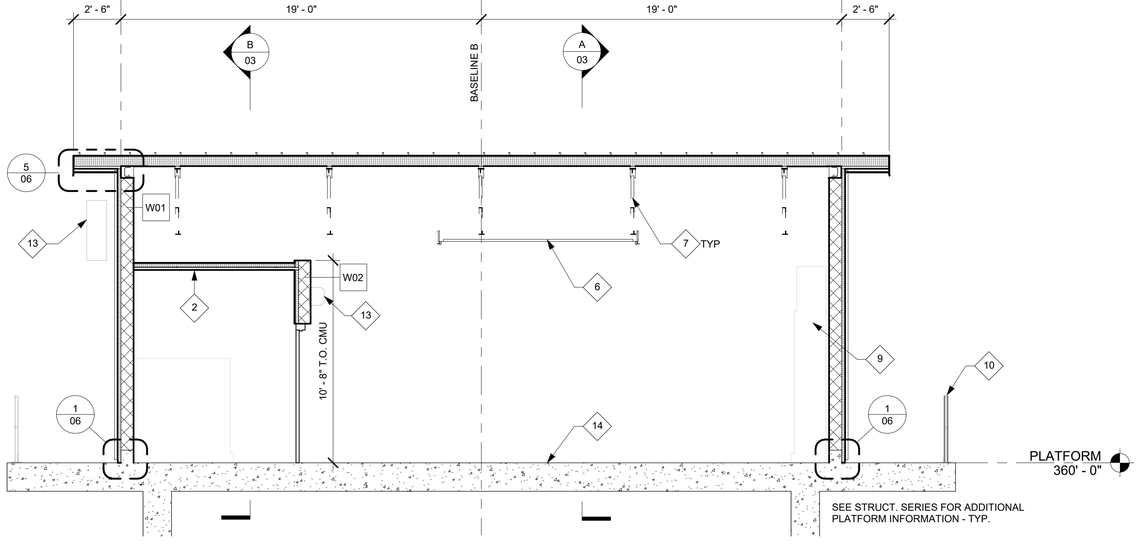


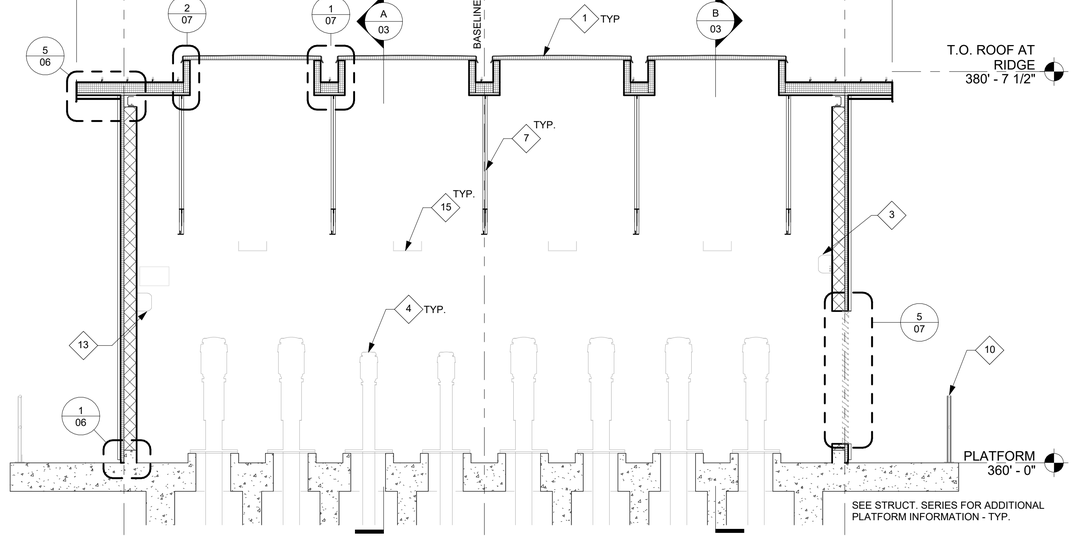
N/S SECTION
1/4" = 1'-0"
A 03



N/S SECTION
1/4" = 1'-0"
B 03



E/W SECTION
1/4" = 1'-0"
C 03



E/W SECTION
1/4" = 1'-0"
D 03

GENERAL NOTES

A. ALL DIMENSIONS FROM FACE OF CMU UNLESS NOTED OTHERWISE.

B. AREAS BEYOND EXTERIOR WALL OR STRUCTURE SHOWN FOR REFERENCE ONLY.

C. SPLIT SYSTEM UNIT ABOVE SEE 400 SERIES - TYP.

D. WINDOWS ABOVE - SILL. SEE 400 SERIES - TYP

KEYNOTES

1 ROOF EQUIPMENT HATCH
2 SOUND INSULATION IN CEILING
3 SPLIT SYSTEM UNIT, SEE 400 SERIES
4 PUMP MOTOR TOWER
5 ELECTRICAL EQUIPMENT, SEE 500 SERIES
6 INSULATED SECTIONAL DOOR
7 PRE-ENGINEERED ROOF STEEL JOISTS
8 WATER PUMP EQUIPMENT - SEE 200 AND 400 SERIES
9 MOTOR CONTROL PANELS, SEE SHEET 500-2 FOR ELECTRICAL EQUIPMENT SIZE
10 GUARDRAIL, SEE 300 SERIES
11 STRUCTURAL SUPPORT FOR CABLE TRAYS - SEE 320 SERIES
12 STRUCTURAL SUPPORT FOR OVERHEAD DOOR - SEE 320 SERIES
13 HVAC EQUIPMENT, SEE 400 SERIES
14 CONCRETE FLOOR SLAB SEE 300 SERIES
15 CABLE TRAYS

CONVERGENCE ARCHITECTURE

PROJECT NO. 7054

Know what's below. Call before you dig.

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT

BUILDING SECTIONS

No.	Revision	Date	Drawn	Checked
0	ISSUE FOR BID	10/17/25	AP	EE

REGISTERED ARCHITECT ELIJAH S. ELDER PORTLAND, OR 5274 STATE OF OREGON

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5002-01	10-17-25	600-03

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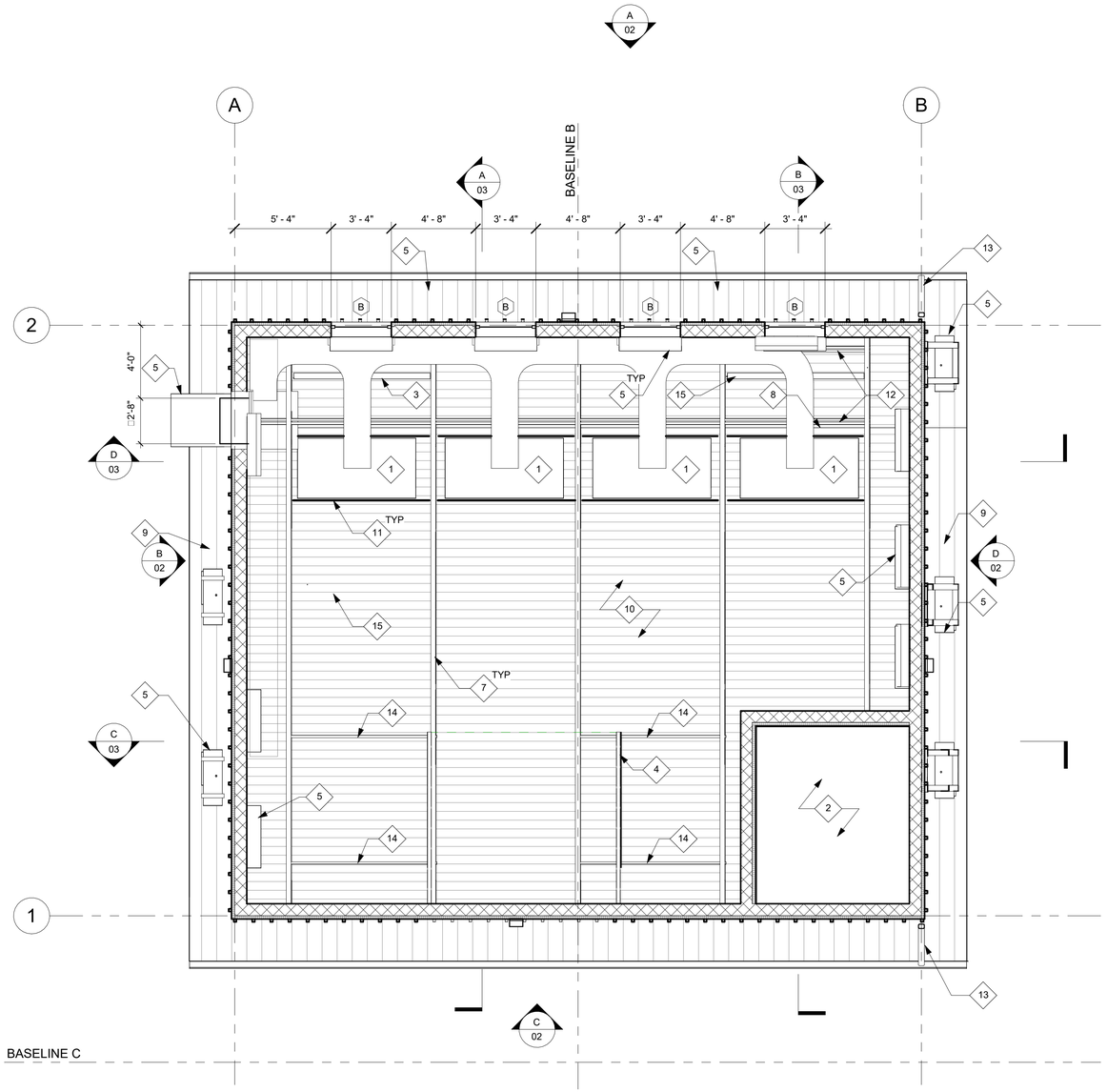

REFLECTED CEILING PLAN

1/4" = 1'-0"

NORTH

GENERAL NOTES

A. SEE ELECTRICAL SERIES 500 FOR LIGHTING LOCATIONS.
B. SEE MECHANICAL 400 SERIES AND ELECTRICAL SERIES 500 FOR EQUIPMENT LOCATIONS.

KEYNOTES

1 ROOF EQUIPMENT HATCH
2 CEMENT BOARD CEILING
3 STRUCTURAL SUPPORT FOR SAFETY TIE OFF - SEE 320 SERIES
4 OVERHEAD DOOR TRACK
5 HVAC EQUIPMENT, SEE 400 SERIES
7 PRE-ENGINEERED ROOF STEEL JOISTS
8 RIDGELINE
9 FLUSH METAL PANEL SOFFIT
10 METAL DECKING
11 STRUCTURAL SUPPORT FOR HATCH OPENINGS BOTH SIDES - SEE 320 SERIES
12 STRUCTURAL SUPPORT FOR CABLE TRAYS - SEE 320 SERIES
13 DOWNSPOUT TO EMBEDDED PIPE, SEE 200 AND 300 SERIES
14 STRUCTURAL SUPPORT FOR OVERHEAD DOOR - SEE 320 SERIES
15 STRUCTURAL SUPPORT FOR HEATER UNITS - SEE 400 SERIES

CONVERGENCE ARCHITECTURE

PROJECT NO. 7054

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REGISTERED ARCHITECT ELIJAH S. ELDER PORTLAND, OR 5274 STATE OF OREGON

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT

REFLECTED CEILING PLAN

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KleinschmidtGroup.com

Project No.	Date Revised	Drawing No.
5002-01	10-17-25	600-04

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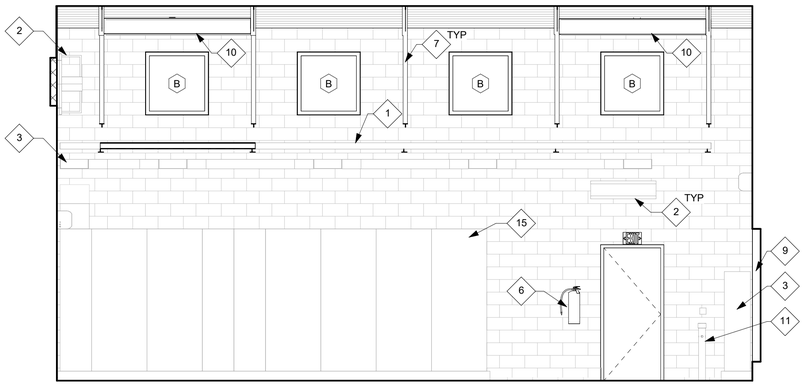
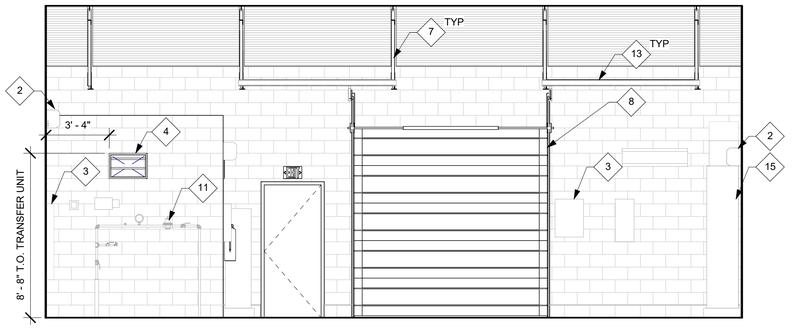


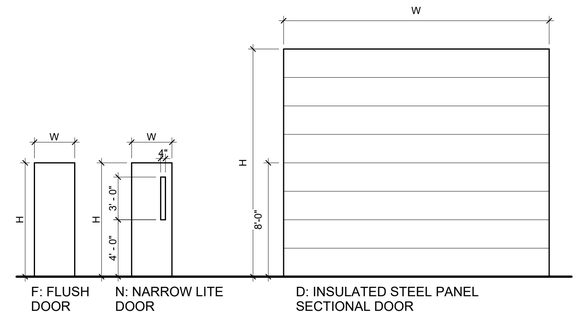
N INTERIOR OF PUMP STATION

1/4" = 1'-0"



S INTERIOR OF PUMP STATION

1/4" = 1'-0"



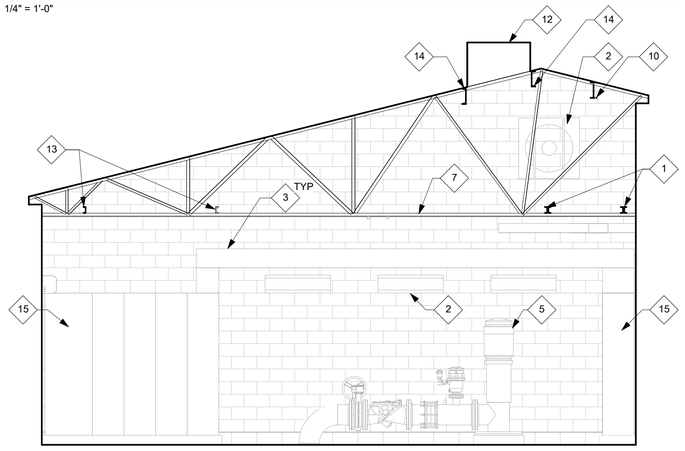
F: FLUSH DOOR

N: NARROW LITE DOOR

D: INSULATED STEEL PANEL SECTIONAL DOOR

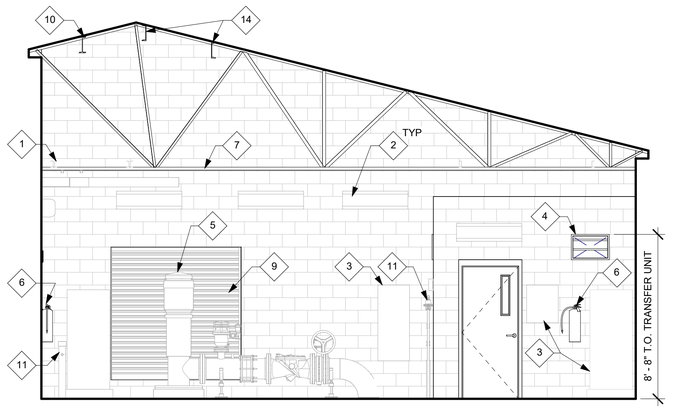
DOOR TYPES

3/16" = 1'-0"



W INTERIOR OF PUMP STATION

1/4" = 1'-0"



E INTERIOR OF PUMP STATION

1/4" = 1'-0"

DOOR SCHEDULE

NO	DOOR SIZE W	H	T	TYPE	MATL	FINISH	GLASS	FRAME TYPE	MATL	FINISH	DETAILS HEAD	JAMB	SILL	HW
101	3' - 0"	7' - 0"	2"	F	HM	PAINTED - MAS	-	HM	STD	P	1	6	1	H-1
102	10' - 0"	10' - 0"	1 1/2"	D	STL	PAINTED - MAS	PCG	HM	STD	P	1	7	2	N/A
103	3' - 0"	7' - 0"	2"	F	HM	PAINTED - MAS	-	HM	STD	P	1	6	1	H-1
104	3' - 0"	7' - 0"	2"	N	HM	PAINTED - MAS	PCG	HM	STD	P	0	5	-	H-2

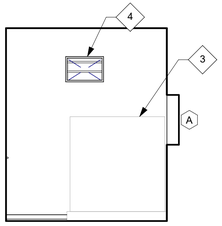
WINDOW SCHEDULE

NO	SIZE HEIGHT	WIDTH	SILL HEIGHT	FRAME MATL	COLOR
A	2' - 8"	2' - 8"	4' - 0"	HW	P
B	3' - 4"	3' - 4"	14' - 0"	HW	P

ROOF HATCH SCHEDULE

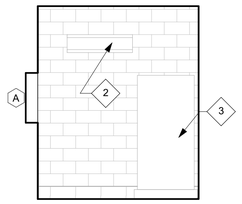
NO	SIZE HEIGHT	WIDTH	FRAME MATL	COLOR
C	4' - 4"	7' - 6"	STL	PREFINISHED

HM HOLLOW METAL
HW HARDWARE GROUP - SEE 08 71 00
P PAINTED - SEE 09 90 00
PCG POLYCARBONATE GLAZING
STD STANDARD DUTY



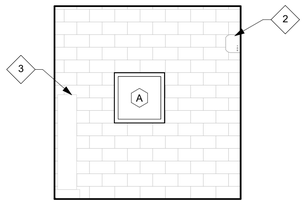
N INTERIOR OF RECORDS

1/4" = 1'-0"



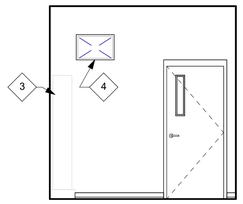
S INTERIOR OF RECORDS

1/4" = 1'-0"



E INTERIOR OF RECORDS

1/4" = 1'-0"



W INTERIOR OF RECORDS

1/4" = 1'-0"

KEYNOTES

1 STRUCTURAL SUPPORT FOR CABLE TRAYS - SEE 320 SERIES
2 HVAC EQUIPMENT, SEE 400 SERIES
3 ELECTRICAL EQUIPMENT, SEE 500 SERIES
4 TRANSFER GRILLE, SEE 400 SERIES
5 PUMP MOTOR TOWER
6 FIRE EXTINGUSHER
7 PRE-ENGINEERED ROOF STEEL JOISTS
8 INSULATED SECTIONAL DOOR
9 LOUVER, SEE 400 SERIES
10 STRUCTURAL SUPPORT FOR SAFETY TIE OFF - SEE 320 SERIES
11 WATER PUMP EQUIPMENT - SEE 200 AND 400 SERIES
12 ROOF EQUIPMENT HATCH
13 STRUCTURAL SUPPORT FOR OVERHEAD DOOR - SEE 320 SERIES
14 STRUCTURAL SUPPORT FOR HATCH OPENINGS BOTH SIDES - SEE 320 SERIES
15 MOTOR CONTROL PANELS, SEE SHEET 500-2 FOR ELECTRICAL EQUIPMENT SIZE

Know what's below. Call before you dig.

CONVERGENCE ARCHITECTURE

PROJECT NO. 7054

REGISTERED ARCHITECT ELIJAH S. ELDER PORTLAND, OR 5274 STATE OF OREGON

No.	Revision	Date	Drawn	Checked
0	ISSUE FOR BID	10/17/25	AP	EE

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT

INTERIOR ELEVATIONS AND SCHEDULE

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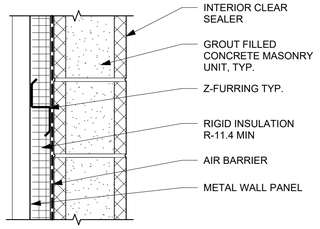
Project No. 5002-01 | Date Revised 10-17-25 | Drawing No. 600-05

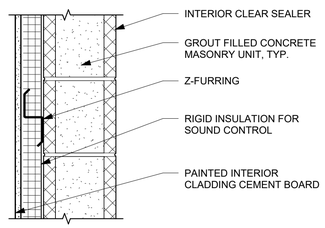
PRINTED: 10/21/2025 10:55:33 AM

22x34 = FULL SCALE

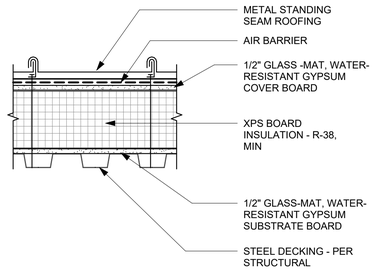
3" 2" 1" 0



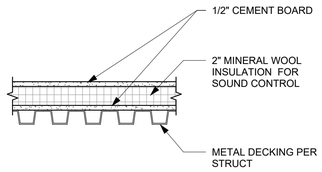
9 W01 EXTERIOR WALL
1 1/2" = 1'-0"



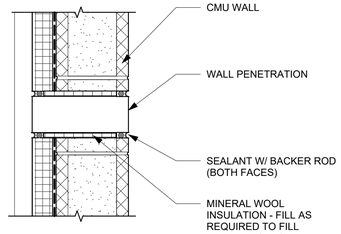
10 W02 INTERIOR WALL
1 1/2" = 1'-0"



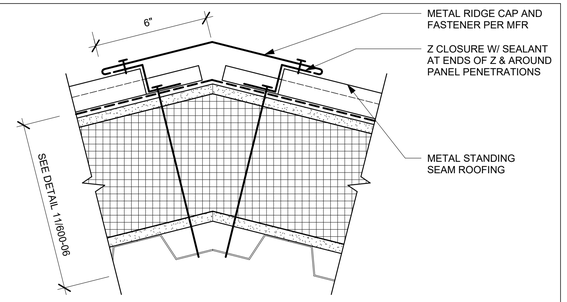
11 TYPICAL ROOF ASSEMBLY
1 1/2" = 1'-0"



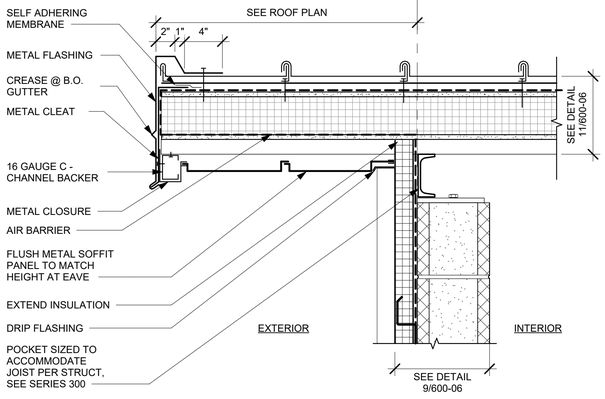
12 TYPICAL CEILING ASSEMBLY
1 1/2" = 1'-0"



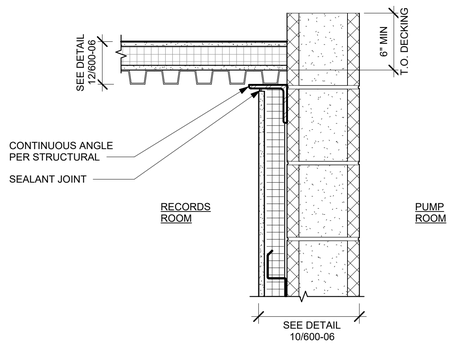
13 TYP WALL PENETRATION
1 1/2" = 1'-0"



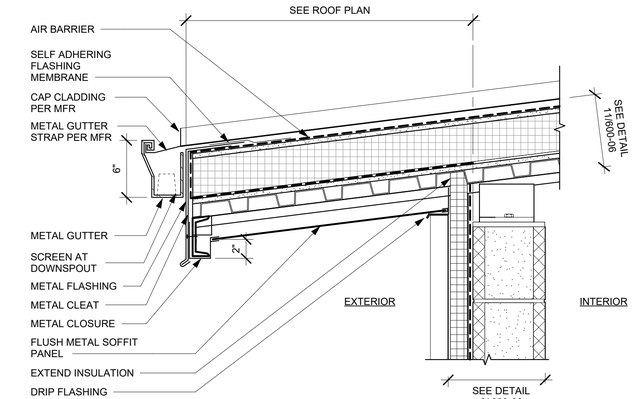
14 RIDGE CAP
3" = 1'-0"



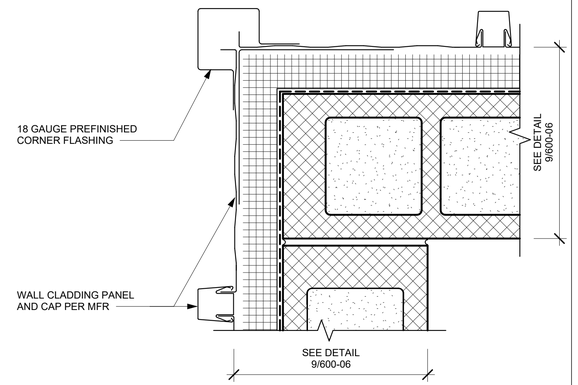
5 TYP. EXT WALL TO OVERHANG
1 1/2" = 1'-0"



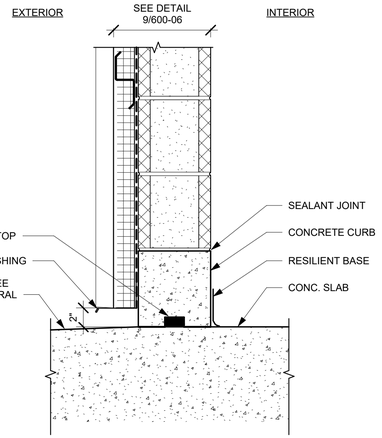
6 TYP. INT PARTITION WALL TO CEILING
1 1/2" = 1'-0"



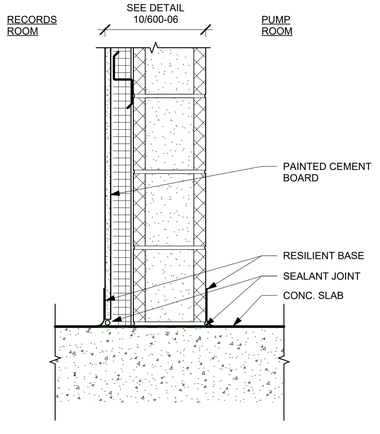
7 EAVE DETAIL
1 1/2" = 1'-0"



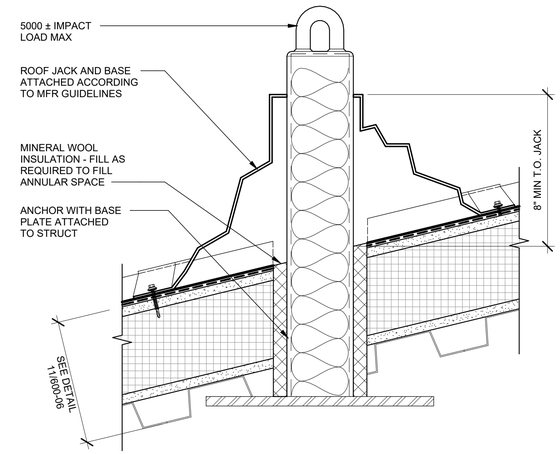
8 WALL AT CORNER
3" = 1'-0"



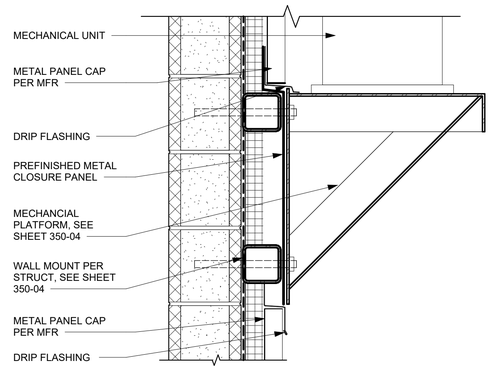
1 TYP. EXT WALL TO SLAB
1 1/2" = 1'-0"



2 TYP. INT PARTITION WALL TO SLAB
1 1/2" = 1'-0"



3 ROOF ANCHOR AND JACK
3" = 1'-0"



4 EXT MECH SUPPORT
1 1/2" = 1'-0"

811 Know what's below. Call before you dig.

CONVERGENCE ARCHITECTURE

PROJECT NO. 7054

PRINTED: 10/21/2025 10:55:34 AM

REGISTERED ARCHITECT ELIJAH S. ELDER PORTLAND, OR 5274 STATE OF OREGON

No.	Revision	Date	Drawn	Checked
0	ISSUE FOR BID	10/17/25	AP	EE

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT

TYPICAL DETAILS

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888-224-5942
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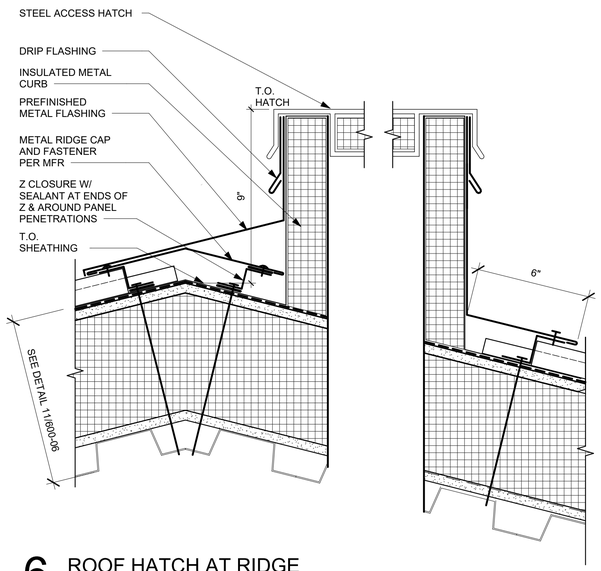
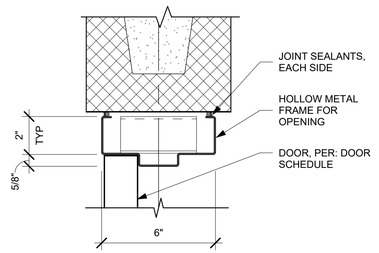
Project No.	Date Revised	Drawing No.
5002-01	10-17-25	600-06

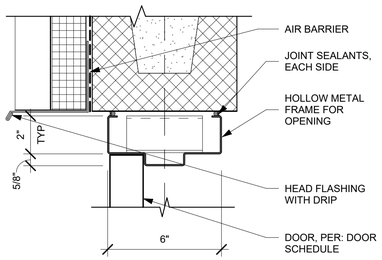
22x34 = FULL SCALE



6 ROOF HATCH AT RIDGE
3" = 1'-0"



10 INT HM DOOR HEAD AT CMU
3" = 1'-0"



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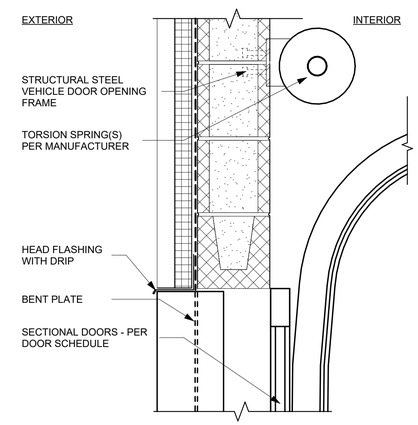
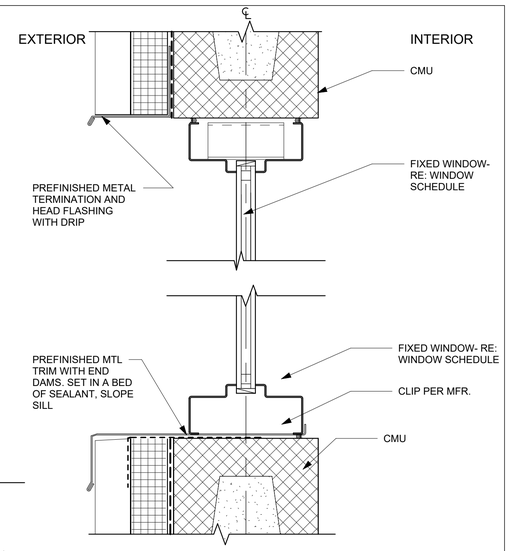
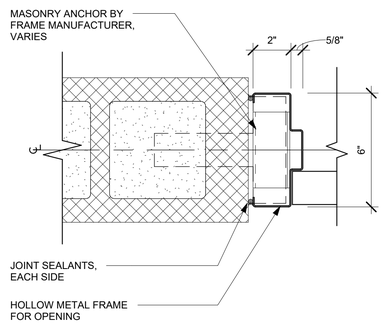


12 OH DOOR HEAD AT CMU
1 1/2" = 1'-0"

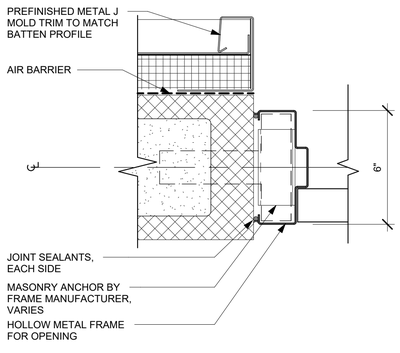


13 FIXED WINDOW HEAD/SILL @ CMU
3" = 1'-0"

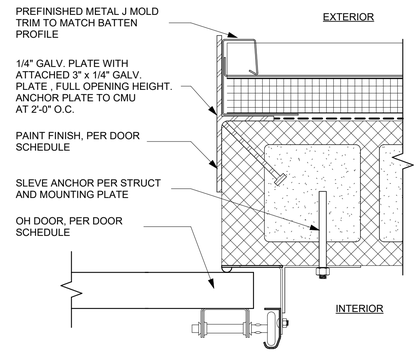
NOTE: JAMB SIM 8/600-07



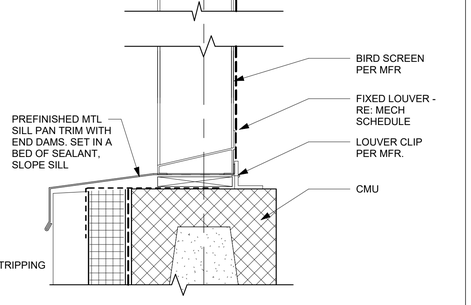
7 INT HM DOOR JAMB AT CMU
3" = 1'-0"



8 EXT HM DOOR JAMB AT CMU
3" = 1'-0"

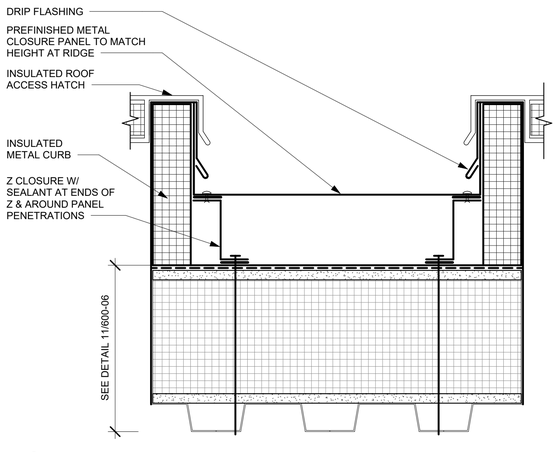


9 OH DOOR JAMB AT CMU
3" = 1'-0"

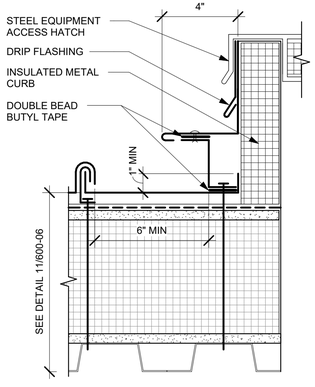


5 FIXED LOUVER HEAD/SILL @ CMU
3" = 1'-0"

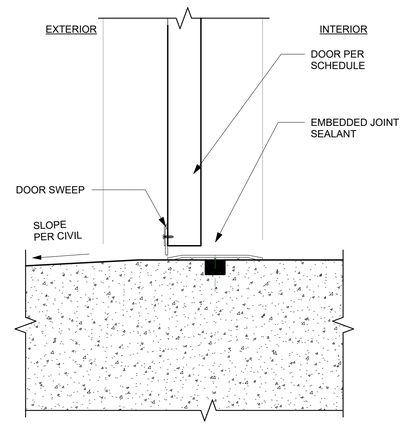
NOTE: JAMB SIM 8/600-07



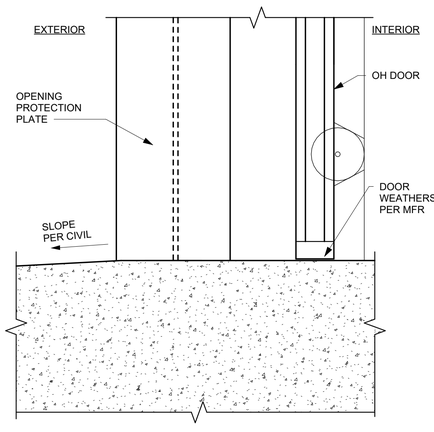
1 BETWEEN ROOF HATCH
3" = 1'-0"



2 ROOF HATCH CURB
3" = 1'-0"



3 EXT HM DOOR SILL
3" = 1'-0"



4 OH DOOR SILL
3" = 1'-0"

CONVERGENCE ARCHITECTURE

PROJECT NO. 7054

PRINTED: 10/21/2025 10:55:34 AM

REGISTERED ARCHITECT ELIJAH S. ELDER PORTLAND, OR 5274 STATE OF OREGON

No.	Revision	Date	Drawn	Checked
0	ISSUE FOR BID	10/17/25	AP	EE

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT

OPENING DETAILS

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Project No.	Date Revised	Drawing No.
5002-01	10-17-25	600-07

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SECTION 700 CONTROLS DRAWING INDEX		
SHEET	DRAWING NUMBER	DESCRIPTION
1	700-01	CONTROL DRAWINGS – INDEX
2	700-02	CONTROL DRAWINGS – SCHEMATIC SYMBOLS LEGEND
3	701-10	CONTROL DRAWINGS, PANEL – BILL OF MATERIALS
4	701-11	CONTROL DRAWINGS, PANEL – ENCLOSURE FRONT LAYOUT
5	701-12	CONTROL DRAWINGS, PANEL – BACK PANEL LAYOUT
6	701-13	CONTROL DRAWINGS, PANEL – FUSE STRIP DETAIL
7	701-50	CONTROL DRAWINGS, PANEL – POWER DISTRIBUTION 120 VAC
8	701-51	CONTROL DRAWINGS, PANEL – POWER DISTRIBUTION 24 VDC
9	701-61	CONTROL DRAWINGS, PANEL – IO CARD SLOT 1 16-PT DIGITAL INPUT
10	701-62	CONTROL DRAWINGS, PANEL – IO CARD SLOT 2 16-PT DIGITAL INPUT
11	701-63	CONTROL DRAWINGS, PANEL – IO CARD SLOT 3 16-PT DIGITAL INPUT
12	701-64	CONTROL DRAWINGS, PANEL – IO CARD SLOT 4 16-PT DIGITAL INPUT
13	701-65	CONTROL DRAWINGS, PANEL – IO CARD SLOT 5 16-PT DIGITAL INPUT
14	701-66	CONTROL DRAWINGS, PANEL – IO CARD SLOT 6 16-PT DIGITAL OUTPUT
15	701-67	CONTROL DRAWINGS, PANEL – IO CARD SLOT 7 16-CH ANALOG INPUT P1
16	701-68	CONTROL DRAWINGS, PANEL – IO CARD SLOT 7 16-CH ANALOG INPUT P2
17	701-69	CONTROL DRAWINGS, PANEL – IO CARD SLOT 8 16-CH ANALOG INPUT P1
18	701-70	CONTROL DRAWINGS, PANEL – IO CARD SLOT 8 16-CH ANALOG INPUT P2
19	701-71	CONTROL DRAWINGS, PANEL – IO CARD SLOT 9 16-CH ANALOG OUTPUT
20	701-80	CONTROL DRAWINGS, PANEL – DAIKIN INTERFACE

22x34 = FULL SCALE
0 1" 2" 3"
PRINTED Oct 21, 2025 - 2:32 PM S:\Customers\Kleinschmidt Associates\J2023-022 Umatilla River Pump Station Controls Design\Drawings\5002-001 700 2025_10_13\5002-001 7005002-001 700-01.dwg

TALOS ENGINEERING INC.

REGISTERED PROFESSIONAL ENGINEER 94092PE OREGON JULY 11, 2016 JASON WILLIAM MERRICK
Renews 12/31/26

No	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10/17/2025	RWR	RWR

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Designed	Drawn	Checked
RWR	RWR	RWR

Project No	Date Revised	Drawing No
5002-001	07-09-25	700-01

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS
INDEX

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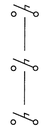
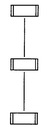
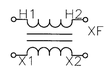
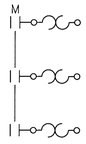
SCHEMATIC SYMBOLS

	3-POLE DISCONNECT		STANDARD COIL WITH PINS		SOLENOID
	3-POLE FUSE WITH TAGS		RELAY NORMALLY OPEN WITH PINS		DUPLEX RECEPTACLE
	FUSE		RELAY NORMALLY CLOSED WITH PINS		FIXED RESISTOR
	GROUND		VARIABLE RESISTOR		GENERIC BOX
	PUSH BUTTON (N.O.)		TRANSFORMER	NNNN/CLR/NNAWG	WIRE DESCRIPTION NNNN = WIRE NUMBER CLR = WIRE COLOR NN = WIRE SIZE
	PUSH BUTTON (N.C.)		3-PHASE STARTER CONTACTS WITH OVERLOAD		SQUARE WITH TERMINAL BLOCK NUMBER
	CIRCUIT BREAKER		PILOT LIGHT		

REGISTERED PROFESSIONAL ENGINEER 94092PE OREGON SEPT. 11, 2015 JASON WILLIAM MERRICK
Renews 12/31/26

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Designed	Drawn	Checked	Project No	Date Revised	Drawing No
RWR	RWR	RWR	5002-001	06-27-25	700-02

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS
SCHEMATIC SYMBOLS LEGEND

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22x34 = FULL SCALE
0 1" 2" 3"

BILL OF MATERIALS

	Reference	Part Number	Description	Mfr	Qty
1		A723612LP	Hoffman Enclosure	Hoffman	1
2		A72P36	BackPanel	Hoffman	1
3		5069-L320ER	CompactLogix 5380 Controller 2MB, 16 I/Os, 40 Ethernet IP nodes	Allen-Bradley	1
4	R1S1, R1S2, R1S3, R1S4, R1S5	5069-IB16	16 Channel 24VDC Sink Input Module	Allen-Bradley	5
5	R1S6	5069-OB16	16 Channel 24VDC Source Output Module	Allen-Bradley	1
6	R1S7, R1S8	5069-IF8	8 Channel Voltage/Current Analog input Module 16 Bit Resolution	Allen-Bradley	2
7	R1S9	5069-OF8	4 Channel NO/NC isolated type Relay Output Module	Allen-Bradley	1
8	R1S10	5069-SERIAL	2 Channel 9-pin Dsub serial interface module Modbus RTU/ASCII	Allen-Bradley	1
9		EA9-T8CL	C-more EA9 series touch screen HMI	Automation Direct	1
10		1783-US6TH/B	Stratix 2000 Switch, 6 RJ45, 2 Singlemode SFP (Preinstalled)	Allen Bradley	1
11		JPM398A	DIN Rail Fiber Patch Panel Enclosure	Black Box	1
12		JPM455C-R2	LGX Adapter Panel 6 x Duplex LC Connector, Single Mode	Black Box	1
13		791818OS2D001MR1	Fibre Patch Cable, OS2, Single Mode, Yellow, 1 Meter	Cable Plus USA	1
14	SPD5002	2905348	Valvetrab Val-Sec-T2-1S-175-FM 120 VAC Surge Protector	Phoenix Contact	1
15	PS5006	2866776	20 A Power Supply	Phoenix Contact	1
16	UPS5102	2320238	Quint UPS-IQ	Phoenix Contact	1
17	BAT5124	1274119	UPS-BAT/PB/24DC/12AH	Phoenix Contact	1
18	DV5004	LEDA2M35	LED Light Kit, Magnetic, AC Power, IR Motion Sensor	Hoffman	2
19		LEDA20C	LED Light Input Connector Cable Assembly, AC Power	Hoffman	1
20		LEDA10E	LED Light Extension Connector Cable Assembly, AC Power	Hoffman	1
21	RECPT5008	1492-REC15	Duplex Receptacle, DIN Rail Mount, 15A	Allen Bradley	1
22		199-DR1	Zinc/Steel Din Rail (35mm x 7.5mm x 1m) Slotted	Allen Bradley	5
23		TYD2X3NPG6	2"x3" Duct	Thomas & Betts	4
24		TYD2X3NPG6	3"x3" Duct	Thomas & Betts	4
25		TYD2CPG6	2" Duct Cover	Thomas & Betts	4
26		TYD3CPG6	3" Duct Cover	Thomas & Betts	4
27		1585J-M4TBJM-2	1585 Ethernet Cables Cat5e, 2m, 4pin connection	Allen-Bradley	2
28		ADP2	Data Pocket Large	Hoffman	1
29		1492-JG3	Grounding Terminal Block	Allen-Bradley	10
30		1492-J3	J3 Terminal Block	Allen-Bradley	254
31		1492-CJJ5-10	J3 Jumper	Allen-Bradley	35
32		1492-EBJ3	J3 End Barrier	Allen-Bradley	32
33		1492-EAJ35	End Anchor	Allen-Bradley	46
34		3004142	1 Pole Fuse holder 5x20mm, 120VAC indicator	Phoenix Contact	10
35		3004126	1 Pole Fuse holder 5x20mm, 24VDC indicator	Phoenix Contact	25
36		3118135	Insertion Bridge 10 pole	Phoenix Contact	4
37	CB5002	1489-M1C100	Thermal magnetic Circuit Breaker, I pole Trip Curve C, 10 A	Allen-Bradley	1
38	XF5010	9070T100D13	Control Transformer, 120 VAC Prim, 24 VAC Sec, 100 VA	Schneider-Electric	1
39		700-HLT1Z24	24 VDC Relay	Allen-Bradley	4

22x34 = FULL SCALE
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TALOS ENGINEERING INC.

REGISTERED PROFESSIONAL ENGINEER 94082PE OREGON SEPT 11, 2015 JASON WILLIAM MERRICK
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No	Revision	Date	Drawn	Checked
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RWR	RWR	RWR

CITY OF UMATILLA
UMATILLA, OREGON

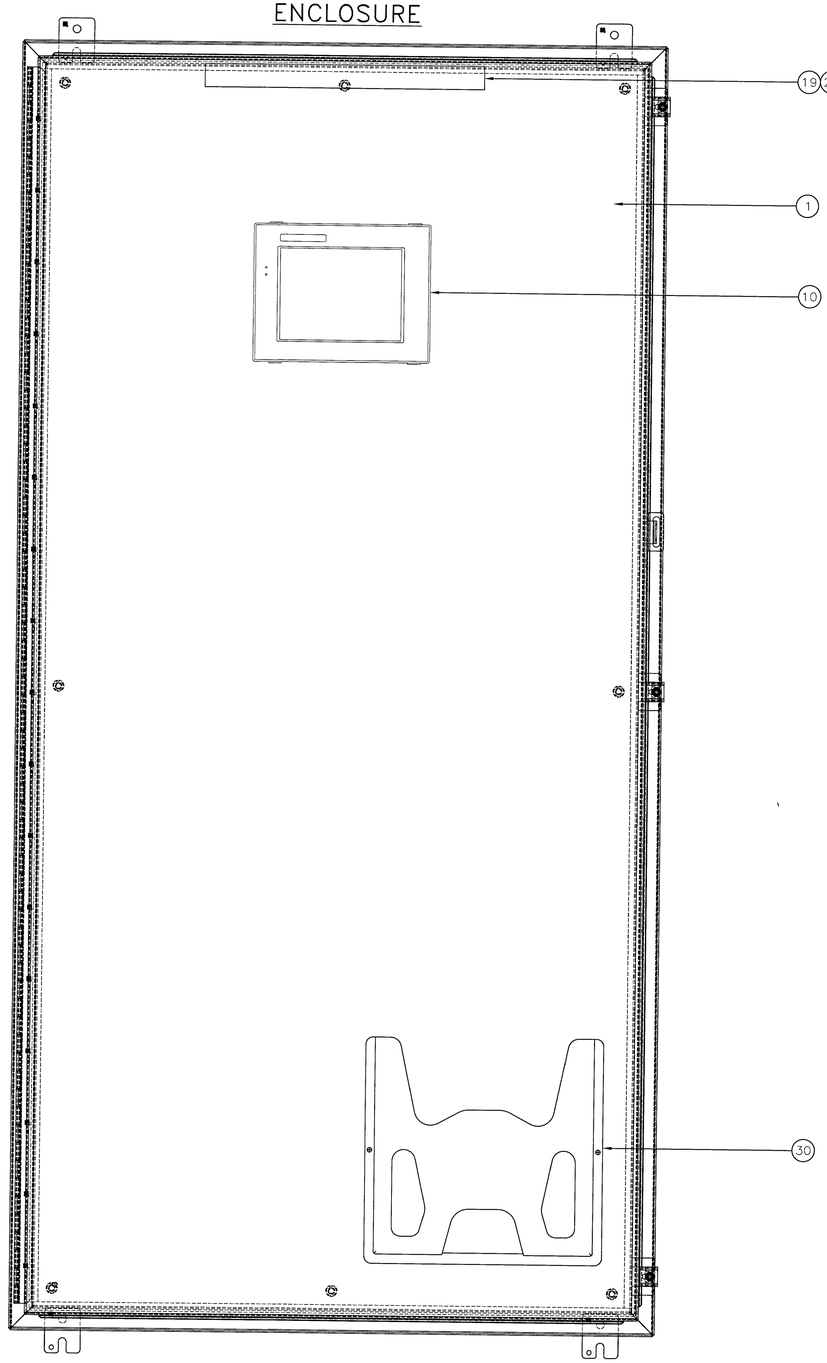
CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

BILL OF MATERIALS

Kleinschmidt
888-224-5942
KleinschmidtGroup.com

Project No	Date Revised	Drawing No
5002-001	07-09-25	701-10

ENCLOSURE



22x34 = FULL SCALE

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TALOS ENGINEERING INC.

REGISTERED PROFESSIONAL ENGINEER
84092PE
OREGON
SEPT 11, 2016
JASON WILLIAM MERRICK
Renews 12/31/26

No	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10/17/2025	RWR	RWR

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
ENCLOSURE FRONT LAYOUT

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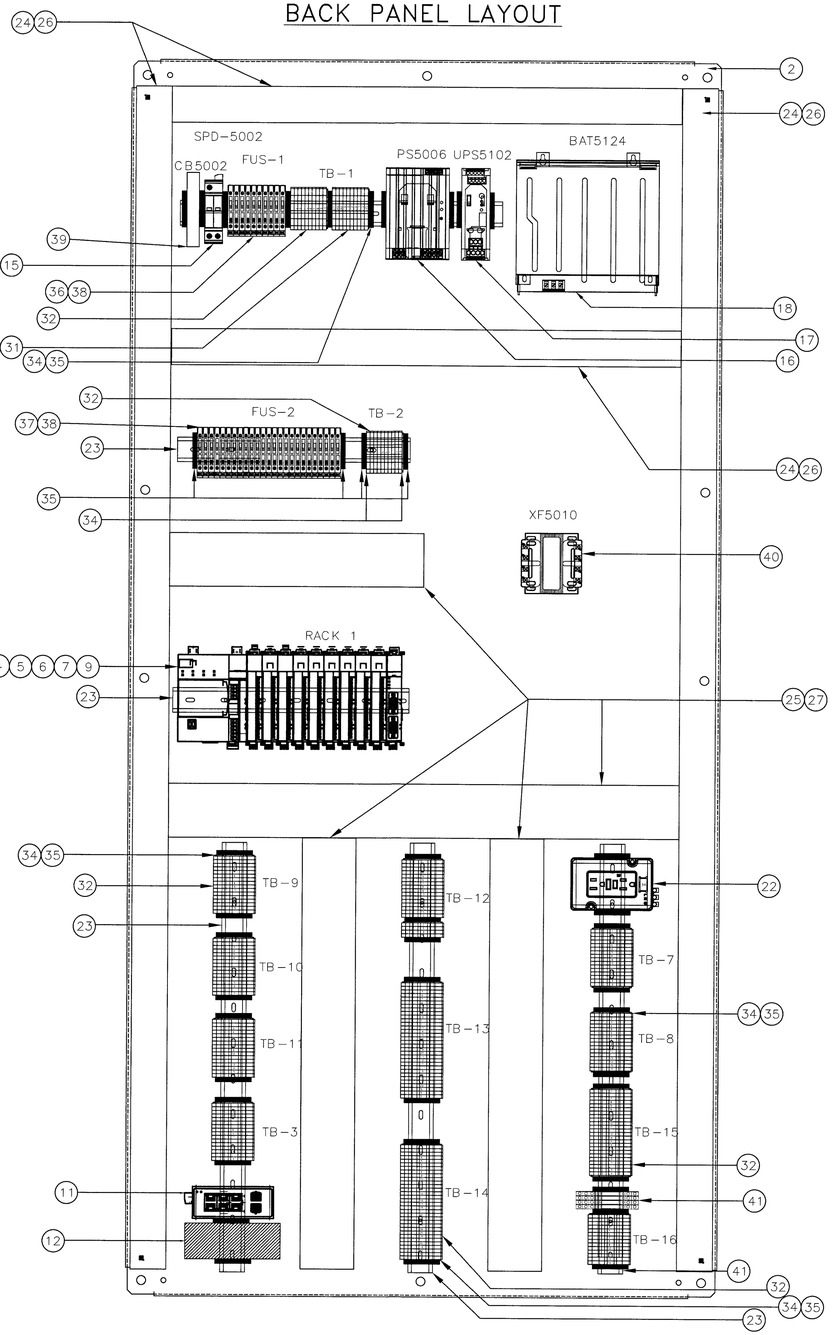
KleinschmidtGroup.com

Project No	Date Revised	Drawing No
5002-001	06-27-25	701-11

BACK PANEL LAYOUT



REGISTERED PROFESSIONAL ENGINEER
94092PE
OREGON
DEC. 31, 2026
JASON WILLIAM MERRICK
Renews 12/31/26

No	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10/17/2025	RWR	RWR

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Project No	Date Revised	Drawing No
5002-001	07-02-25	701-12

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
BACK PANEL LAYOUT

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TALOS ENGINEERING INC.

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22x34 = FULL SCALE
0 1" 2" 3"

FUSE STRIP DETAIL

FUS–1	
NUMBER	JUMPER
FU5002	
FU5004	
FU5006	
FU5008	
FU5010	
FU5012	
FU5014	
FU5016	
FU5018	
FU5020	

FUS–2	
NUMBER	JUMPER
FU5104	
FU5106	
FU5108	
FU5109	
FU5110	
FU5111	
FU5112	
FU5113	
FU5114	
FU5115	
FU5116	
FU5117	
FU5118	
FU5119	
FU5120	
FU5121	
FU5122	
FU5123	
FU5124	
FU5126	
FU5128	
FU5130	
FU5132	
FU5134	
FU5136	

REGISTERED PROFESSIONAL ENGINEER 94052PE OREGON SEPT 11, 2018 JASON WILLIAM MERRICK
Renews 12/31/26

TALOS ENGINEERING INC.

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RWR	RWR	RWR

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
FUSE STRIP DETAIL

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Project No	Date Revised	Drawing No
5002-001	07-02-25	701-13

22x34 = FULL SCALE

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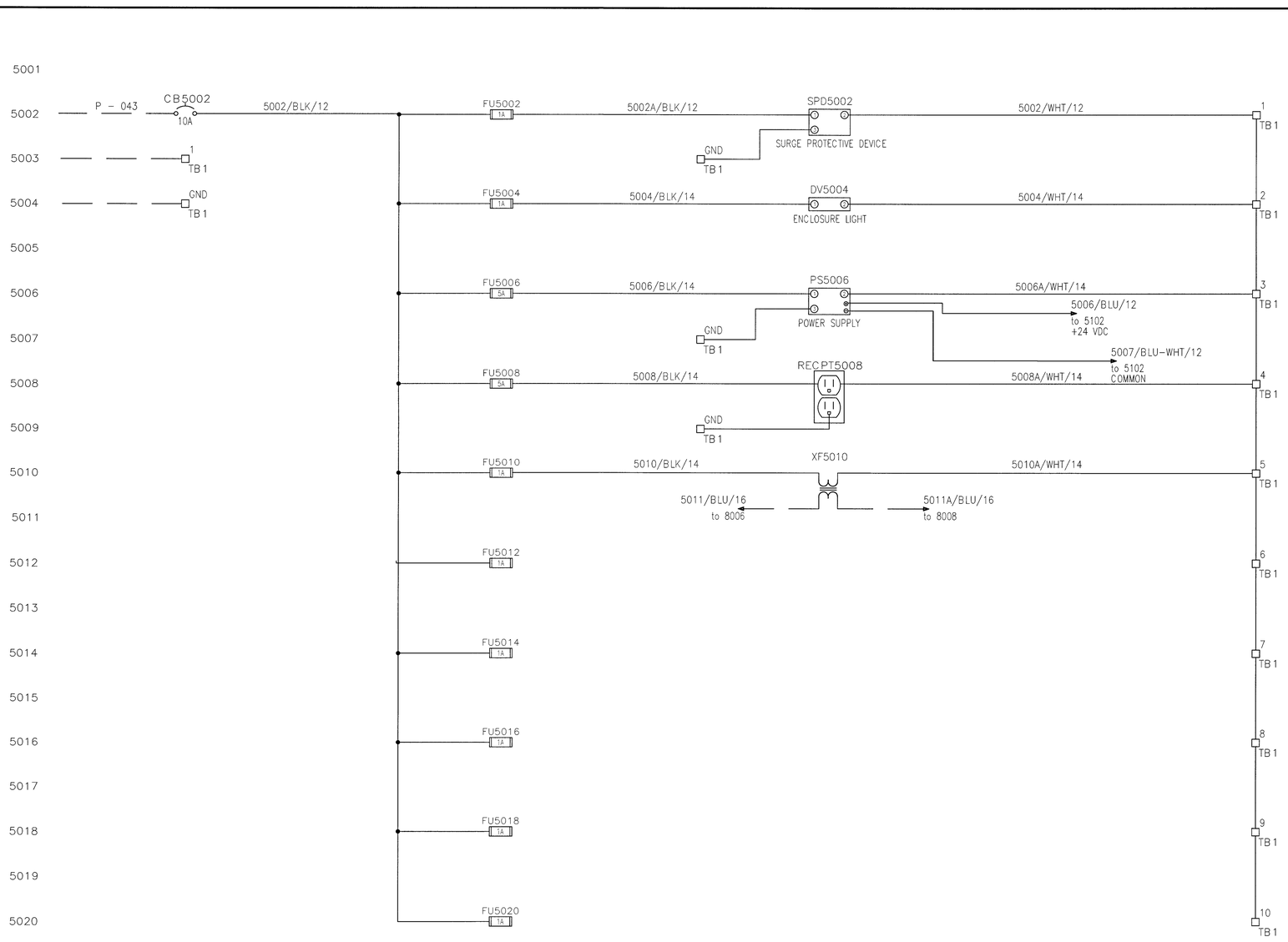

22x34 = FULL SCALE

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TELOS ENGINEERING INC.

REGISTERED PROFESSIONAL ENGINEER
84092PE
OREGON
SEPT 11, 2018
JASON WILLIAM MERRICK
Renews 12/31/26

0	ISSUED FOR BID	10/17/2025	RWR	RWR
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RWR	RWR	RWR	5002-001	07-09-25	701-50

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
120 VAC POWER DISTRIBUTION

Kleinschmidt
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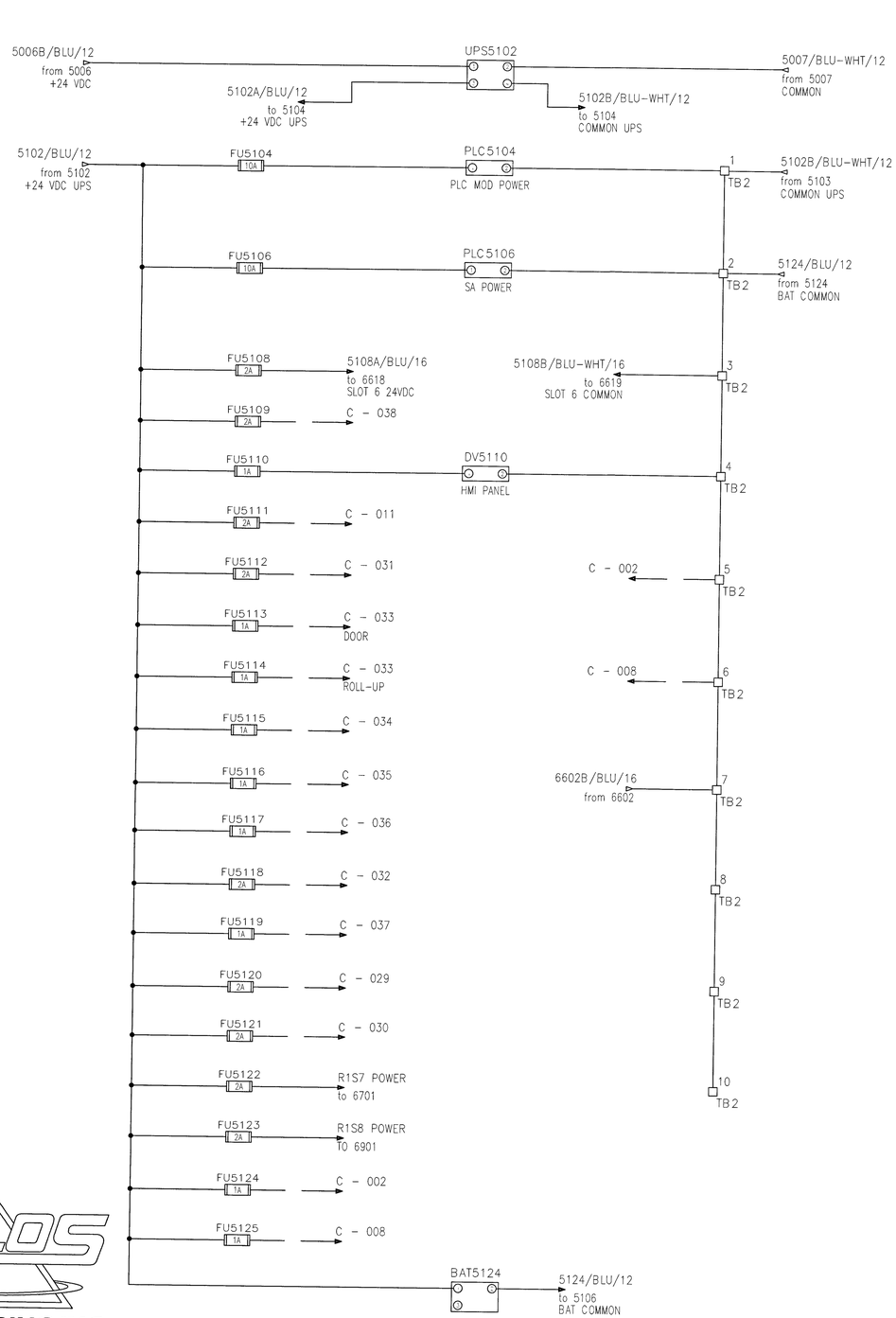
KleinschmidtGroup.com



TALOS ENGINEERING INC.

REGISTERED PROFESSIONAL ENGINEER
94892PE
OREGON
SEPT. 11, 2018
JASON WILLIAM MERRICK
Renews 12/31/26

No	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10/17/2025	RWR	RWR

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RWR	RWR	RWR

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
24 VDC POWER DISTRIBUTION

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KleinschmidtGroup.com

Project No	Date Revised	Drawing No
5002-001	07-09-25	701-51

22x34 = FULL SCALE
0 1" 2" 3"
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5002-001 700 2025_10_13

22x34 = FULL SCALE
3" 2" 1" 0
PRINTED Oct 21, 2025 - 2:32 PM
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6101						
6102	C - 011	C - 011	1 TB7	6102/BLU/16	:01/00 0	INTAKE SCREEN ALARM FAULT
6103			2 TB7	6103/BLU/16	:01/01 1	INTAKE SCREEN STATUS CLEARING
6104			3 TB7	6104/BLU/16	:01/02 2	INTAKE SCREEN STATUS AUTO
6105			4 TB7	6105/BLU/16	:01/03 3	INTAKE SCREEN STATUS READY
6106	C - 031	C - 031	5 TB7	6106/BLU/16	:01/04 4	HRG SYSTEM NORMAL
6107			6 TB7	6107/BLU/16	:01/05 5	HRG SYSTEM GROUND FAULT ALARM
6108			7 TB7	6108/BLU/16	:01/06 6	HRG SYSTEM FAILURE ALARM
6109			8 TB7	6109/BLU/16	:01/07 7	HRG SYSTEM LOSS OF CONTROL POWER
6110			9 TB7	6110/BLU/16	:01/08 8	SPARE
6111			10 TB7	6111/BLU/16	:01/09 9	SPARE
6112	C - 033 DOOR	C - 033	11 TB7	6112/BLU/16	:01/10 10	SOUTH DOOR LIMIT SWITCH
6113	C - 033 ROLL-UP	C - 033	12 TB7	6113/BLU/16	:01/11 11	SOUTH ROLL-UP DOOR LIMIT SWITCH
6114	C - 034	C - 034	13 TB7	6114/BLU/16	:01/12 12	NORTH DOOR LIMIT SWITCH
6115	C - 035	C - 035	14 TB7	6115/BLU/16	:01/13 13	RECORDS ROOM DOOR LIMIT SWITCH
6116	C - 036	C - 036	15 TB7	6116/BLU/16	:01/14 14	STATION FIRE ALARM CONTROL PANEL TROUBLE
6117			16 TB7	6117/BLU/16	:01/15 15	STATION FIRE ALARM CONTROL PANEL ALARM
6118					NO CONNECT 16	
6119					NO CONNECT 17	
6120						
6121						
6122						
6123						
6124						
6125						
6126						

Allen-Bradley
5069-IB16
RACK 1
SLOT 1
24 VDC 16-PT INPUT
R1S1

TELOS ENGINEERING INC.

REGISTERED PROFESSIONAL ENGINEER
84092PE
OREGON
SEPT. 11, 2018
JASON WILLIAM MERRICK
Renews 12/31/26

No	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10/17/2025	RWR	RWR

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RWR	RWR	RWR

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
IO CARDS SLOT 1 DIGITAL INPUTS

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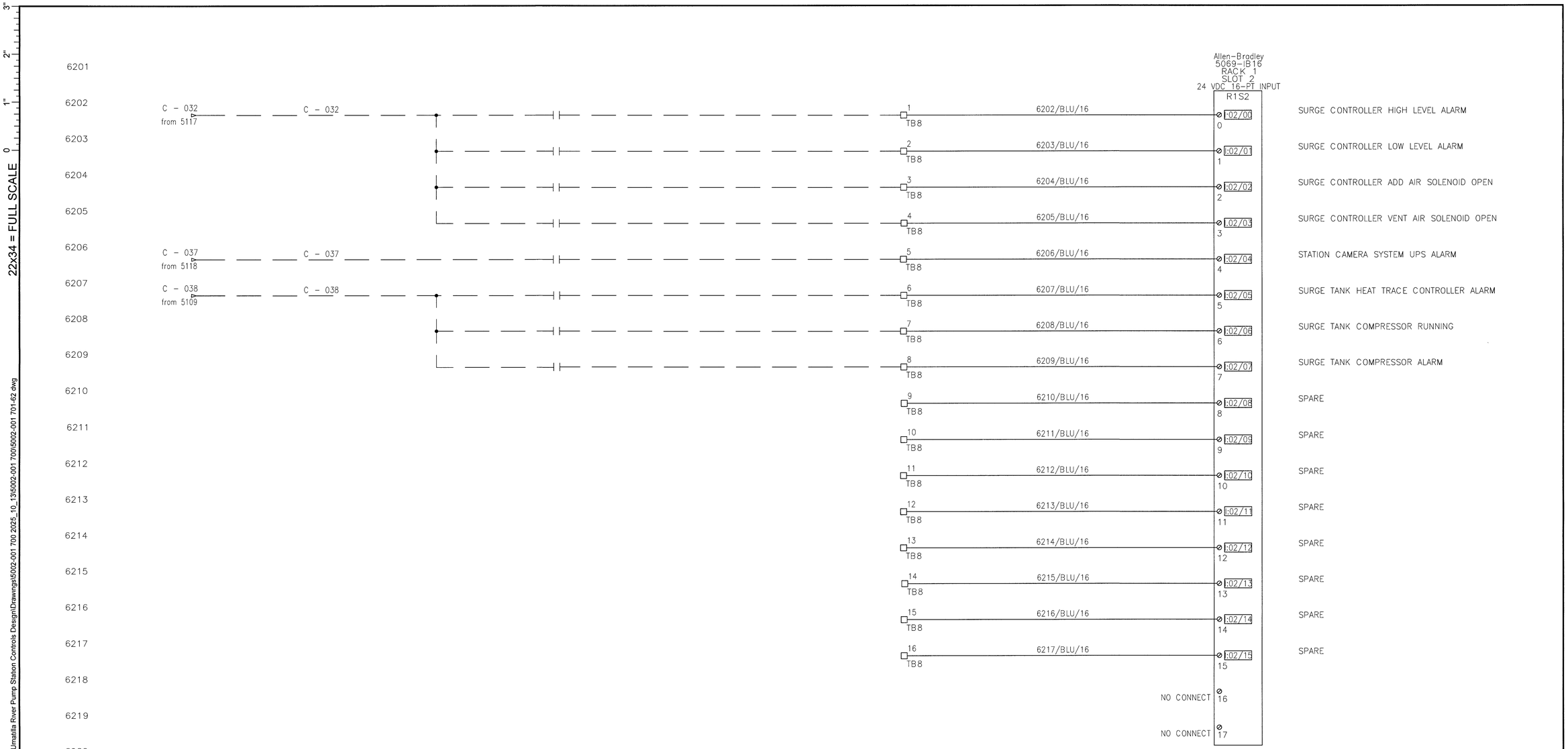
KleinschmidtGroup.com

Project No	Date Revised	Drawing No
5002-001	07-09-25	701-61



22x34 = FULL SCALE

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TALOS ENGINEERING INC.

REGISTERED PROFESSIONAL ENGINEER 94092PE OREGON SEPT 11, 2018 JASON WILLIAM MERRICK Renews 12/31/26

No	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10/17/2025	RWR	RWR

Designed	Drawn	Checked	Project No	Date Revised	Drawing No
RWR	RWR	RWR	5002-001	06-28-25	701-62

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
IO CARD SLOT 2 DIGITAL INPUTS

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22x34 = FULL SCALE
0
1"
2"
3"

6301
6302
6303
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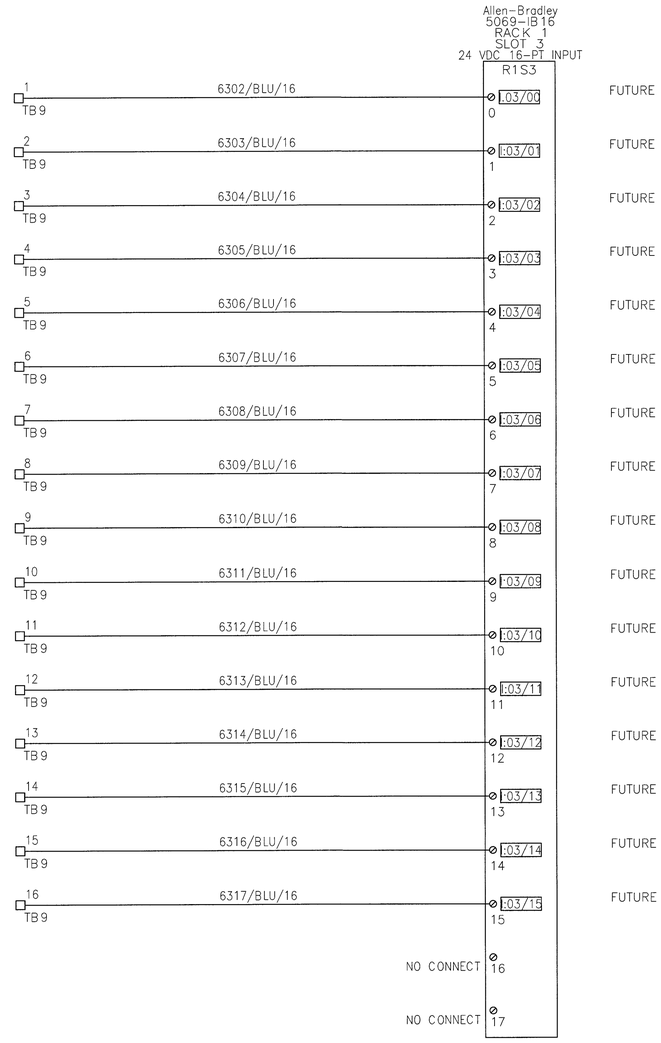

REGISTERED PROFESSIONAL ENGINEER
84092PE
OREGON
SEPT. 11, 2018
JASON WILLIAM MERRICK
Renews 12/31/26

TALOS ENGINEERING INC.

No	Revision	Date	Drawn	Checked
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RWR	RWR	RWR	5002-001	06-28-25	701-63

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
IO CARD SLOT 3 DIGITAL INPUTS

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3" 2" 1" 0
22x34 = FULL SCALE

6401
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6422
6423
6424
6425
6426

C - 029
from 5119

C - 029

C - 030
from 5120

C - 030

Allen-Bradley
5069-IB16
RACK 1
SLOT 4
24 VDC 16-PT INPUT
R1S4

1	TB10	6402/BLU/16	:04/00 0	ATS MODE NORMAL
2	TB10	6403/BLU/16	:04/01 1	ATS MODE STANDBY GENERATOR
3	TB10	6404/BLU/16	:04/02 2	ATS MODE TEST
4	TB10	6405/BLU/16	:04/03 3	ATS ALARM
5	TB10	6406/BLU/16	:04/04 4	SPARE
6	TB10	6407/BLU/16	:04/05 5	SPARE
7	TB10	6408/BLU/16	:04/06 6	SPARE
8	TB10	6409/BLU/16	:04/07 7	STANDBY GENERATOR OFF
9	TB10	6410/BLU/16	:04/08 8	STANDBY GENERATOR ON
10	TB10	6411/BLU/16	:04/09 9	STANDBY GENERATOR ALARM
11	TB10	6412/BLU/16	:04/10 10	SPARE
12	TB10	6413/BLU/16	:04/11 11	SPARE
13	TB10	6414/BLU/16	:04/12 12	SPARE
14	TB10	6415/BLU/16	:04/13 13	SPARE
15	TB10	6416/BLU/16	:04/14 14	SPARE
16	TB10	6417/BLU/16	:04/15 15	SPARE
		NO CONNECT	16	
		NO CONNECT	17	

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TALOS ENGINEERING INC.

REGISTERED PROFESSIONAL ENGINEER
94082PE
OREGON
SEPT 11, 2018
JASON WILLIAM MERRICK
Renews 12/31/26

No	Revision	Date	Drawn	Checked
0	ISSUED FOR BID	10/17/2025	RWR	RWR

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RWR	RWR	RWR

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
IO CARD SLOT 4 DIGITAL INPUTS

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Project No	Date Revised	Drawing No
5002-001	06-28-25	701-64

6501
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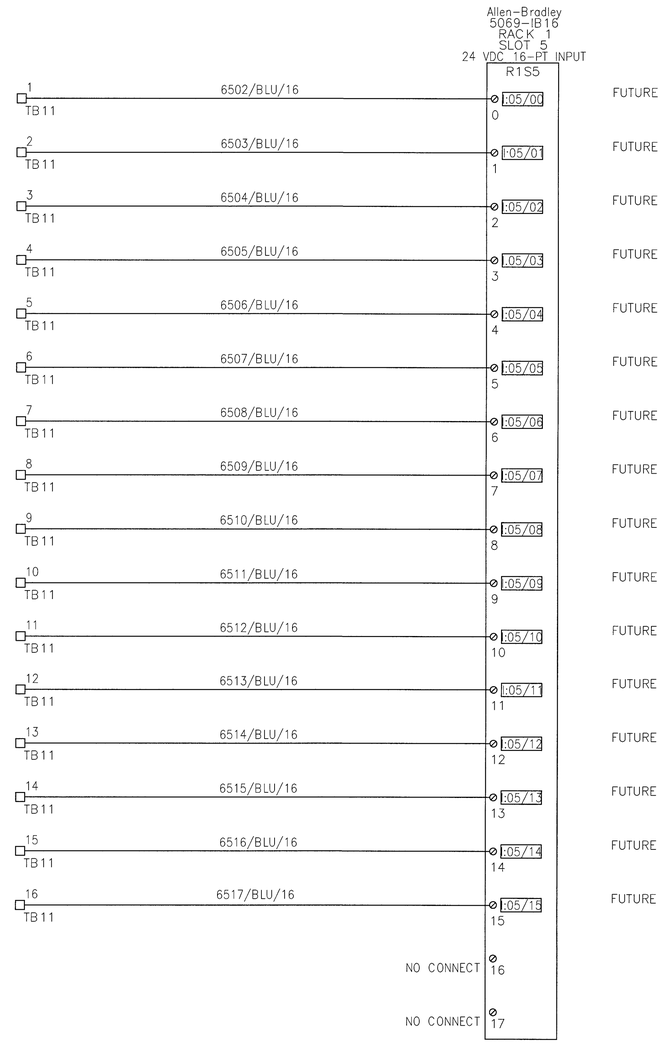

REGISTERED PROFESSIONAL ENGINEER
94092PE
OREGON
SEPT 11, 2018
JASON WILLIAM MERRICK
12/31/26

TELOS ENGINEERING INC.

No	Revision	Date	Drawn	Checked
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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
IO CARD SLOT 5 DIGITAL INPUTS

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Project No	Date Revised	Drawing No
5002-001	06-28-25	701-65

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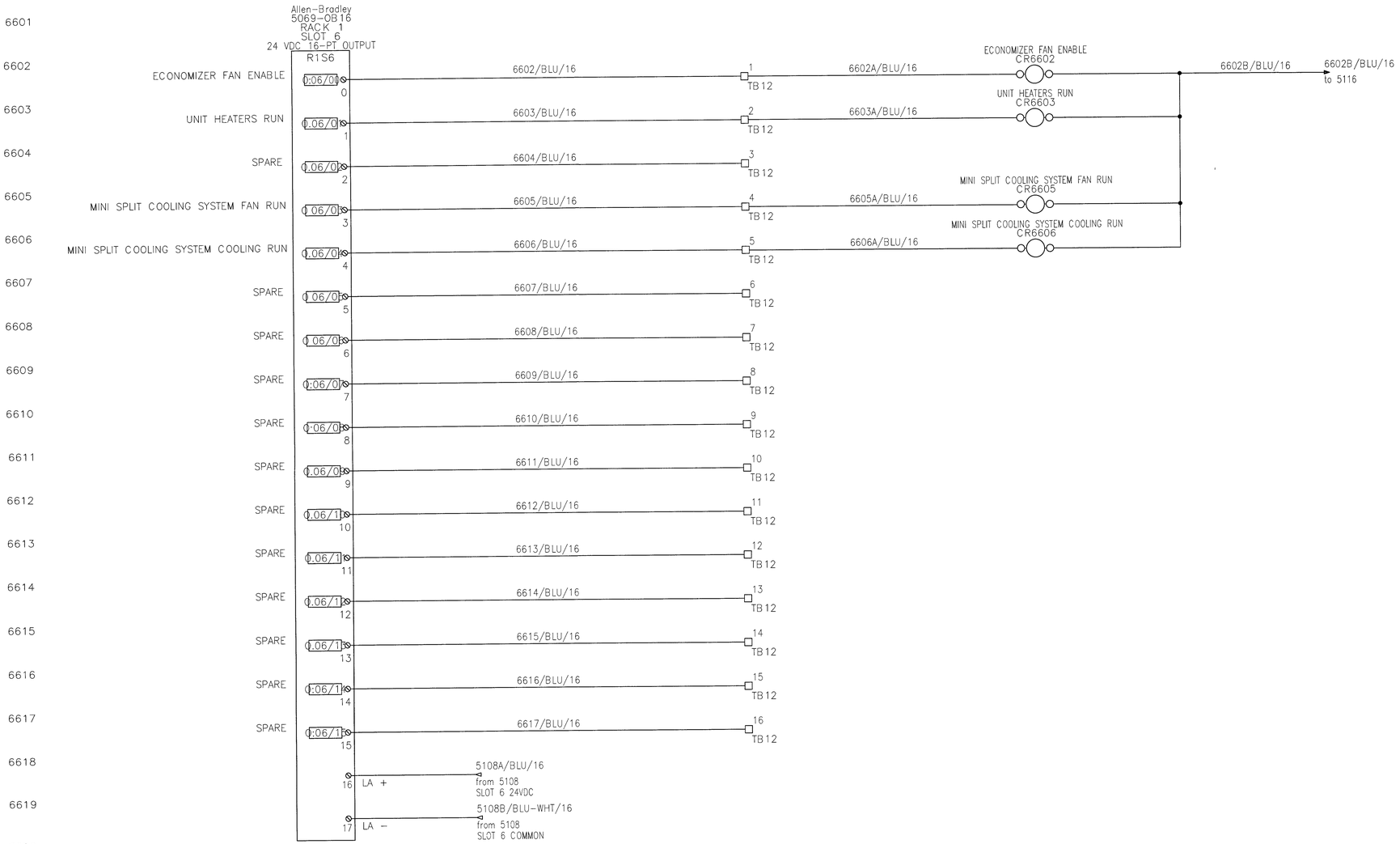
22x34 = FULL SCALE
0 1" 2" 3"



22x34 = FULL SCALE

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TALOS ENGINEERING INC.

REGISTERED PROFESSIONAL ENGINEER
84092PE
OREGON
SEPT. 11, 2018
JASON WILLIAM MERRICK
Renews 12/31/26

0	ISSUED FOR BID	10/17/2025	RWR	RWR
No	Revision	Date	Drawn	Checked

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RWR	RWR	RWR	5002-001	07-09-25	701-66

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
IO CARD SLOT 6 DIGITAL OUTPUTS

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KleinschmidtGroup.com

22x34 = FULL SCALE
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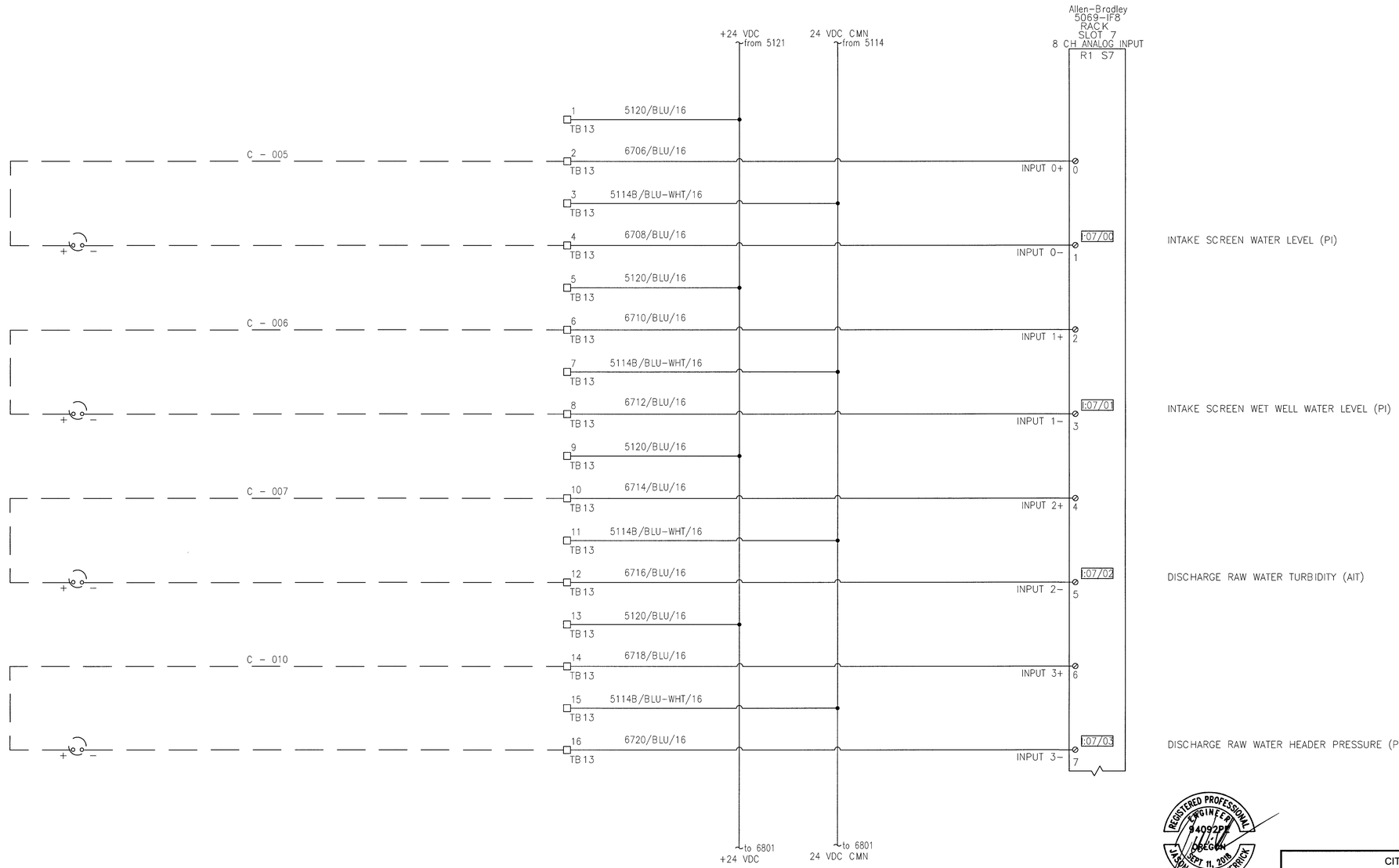

TELOS ENGINEERING INC.

REGISTERED PROFESSIONAL ENGINEER 84092PE OREGON SEPT. 11, 2018 JASON WILLIAM MERRICK
Renews 12/31/26

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
IO CARD SLOT 7 ANALOG INPUT P1

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6801 6802 6803 6804 6805 6806 6807 6808 6809 6810 6811 6812 6813 6814 6815 6816 6817 6818 6819 6820 6821 6822 6823 6824 6825 6826

+24 VDC from 6723

24 VDC CMN from 6723

	17 TB13	5120/BLU/16		
C - 001	18 TB13	6803/BLU/16	INPUT 4+	R1 S7 8
	19 TB13	5114B/BLU-WHT/16		
+ –	20 TB13	6805/BLU/16	INPUT 4–	:07/04 9
	21 TB13	5120/BLU/16		
C - 040	22 TB13	6807/BLU/16	INPUT 5+	10
	23 TB13	5114B/BLU-WHT/16		
+ –	24 TB13	6809/BLU/16	INPUT 5–	:07/05 11
	25 TB13	5120/BLU/16		
C - 027	26 TB13	6811/BLU/16	INPUT 6+	12
	27 TB13	5114B/BLU-WHT/16		
+ –	28 TB13	6813/BLU/16	INPUT 6–	:07/06 13
	29 TB13	5120/BLU/16		
C - 026	30 TB13	6815/BLU/16	INPUT 7+	14
	31 TB13	5114B/BLU-WHT/16		
+ –	32 TB13	6817/BLU/16	INPUT 7–	:07/07 15
			SHIELD	16
			SHIELD	17

PUMP STATION RAW WATER INSTANTANEOUS FLOW (FM-1)

SURGE TANK LEVEL (FROM SURGE CONTROLLER)

OUTDOOR AIR TEMPERATURE

INDOOR AIR TEMPERATURE

TALOS ENGINEERING INC.

REGISTERED PROFESSIONAL ENGINEER 94092PE OREGON SEPT 11, 2018 JASON WILLIAM MERRICK

Renews 12/31/26

No	Revision	Date	Drawn	Checked
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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
IO CARD SLOT 7 ANALOG INPUT P2

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22x34 = FULL SCALE

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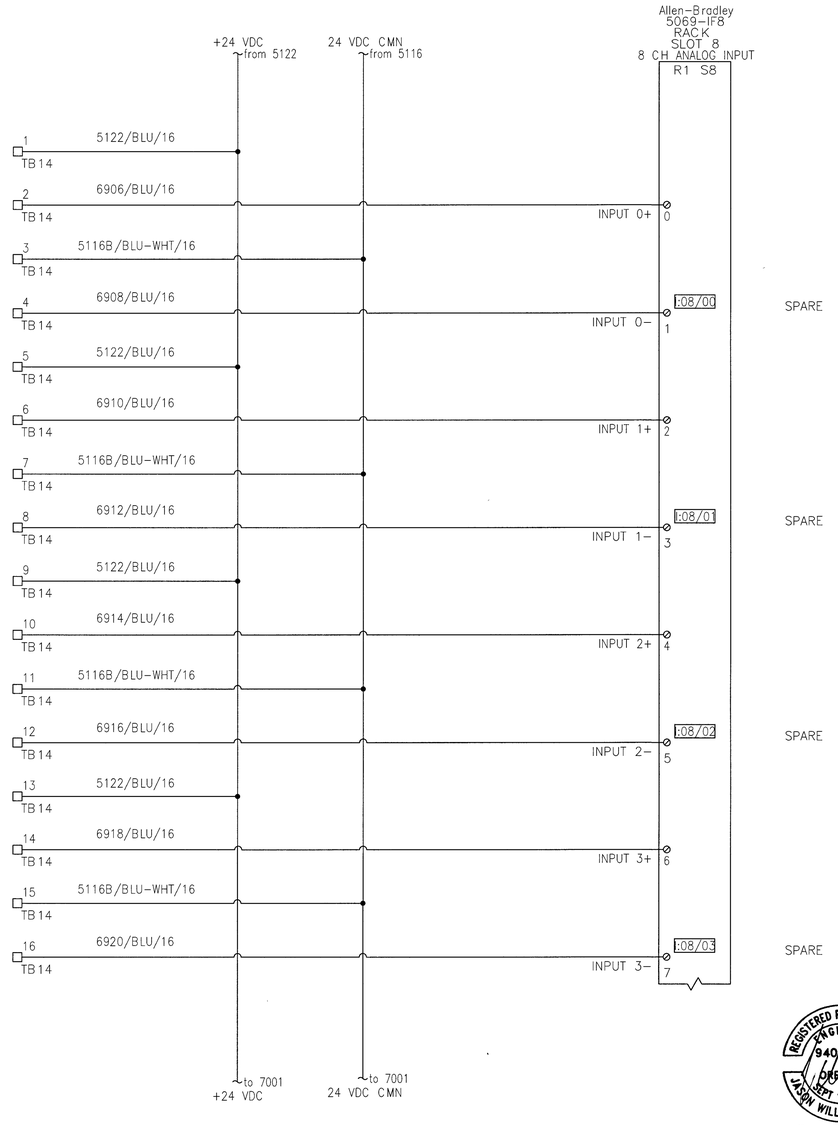

TELOS ENGINEERING INC.

REGISTERED PROFESSIONAL ENGINEER
94062PE
OREGON
SEPT 11, 2018
JASON WILLIAM MERRICK
Renews 12/31/26

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
IO CARD SLOT 8 ANALOG INPUT P1

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22x34 = FULL SCALE
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1"
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REGISTERED PROFESSIONAL ENGINEER
94092PE
OREGON
SEPT 11, 2018
JASON WILLIAM MERRICK
Renews 12/31/26

TALOS ENGINEERING INC.

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RWR	RWR	RWR

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
IO CARD SLOT 8 ANALOG INPUT P2

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5002-001	06-30-25	701-70

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22x34 = FULL SCALE
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ECONOMIZER FAN
RUN AND SPEED
0–2V = OFF
2–10V = 1–100% SPEED

Allen–Bradley
5069–OF8
RACK 1
SLOT 9
8 CH ANALOG OUTPUT
R1S9

	0	0 +	7103/BLU/16	1	TB15
0:09/00	1	0 –	7104/BLU/16	2	TB15
	2	1 +	7105/BLU/16	3	TB15
SPARE	0:09/01	1 –	7106/BLU/16	4	TB15
	4	2 +	7107/BLU/16	5	TB15
SPARE	0:09/02	2 –	7108/BLU/16	6	TB15
	6	3 +	7109/BLU/16	7	TB15
SPARE	0:09/03	3 –	7110/BLU/16	8	TB15
	8	4 +	7111/BLU/16	9	TB15
SPARE	0:09/04	4 –	7112/BLU/16	10	TB15
	10	5 +	7113/BLU/16	11	TB15
SPARE	0:09/05	5 –	7114/BLU/16	12	TB15
	12	6 +	7115/BLU/16	13	TB15
SPARE	0:09/06	6 –	7116/BLU/16	14	TB15
	14	7 +	7117/BLU/16	15	TB15
SPARE	0:09/07	7 –	7118/BLU/16	16	TB15
	16	SHIELD			
	17	SHIELD			

C – 025

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REGISTERED PROFESSIONAL ENGINEER
94092PE
OREGON
SEPT 11, 2018
JASON WILLIAM MERRICK
Renews 12/31/24

TALOS ENGINEERING INC.

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
IO CARD SLOT 9 ANALOG OUTPUT

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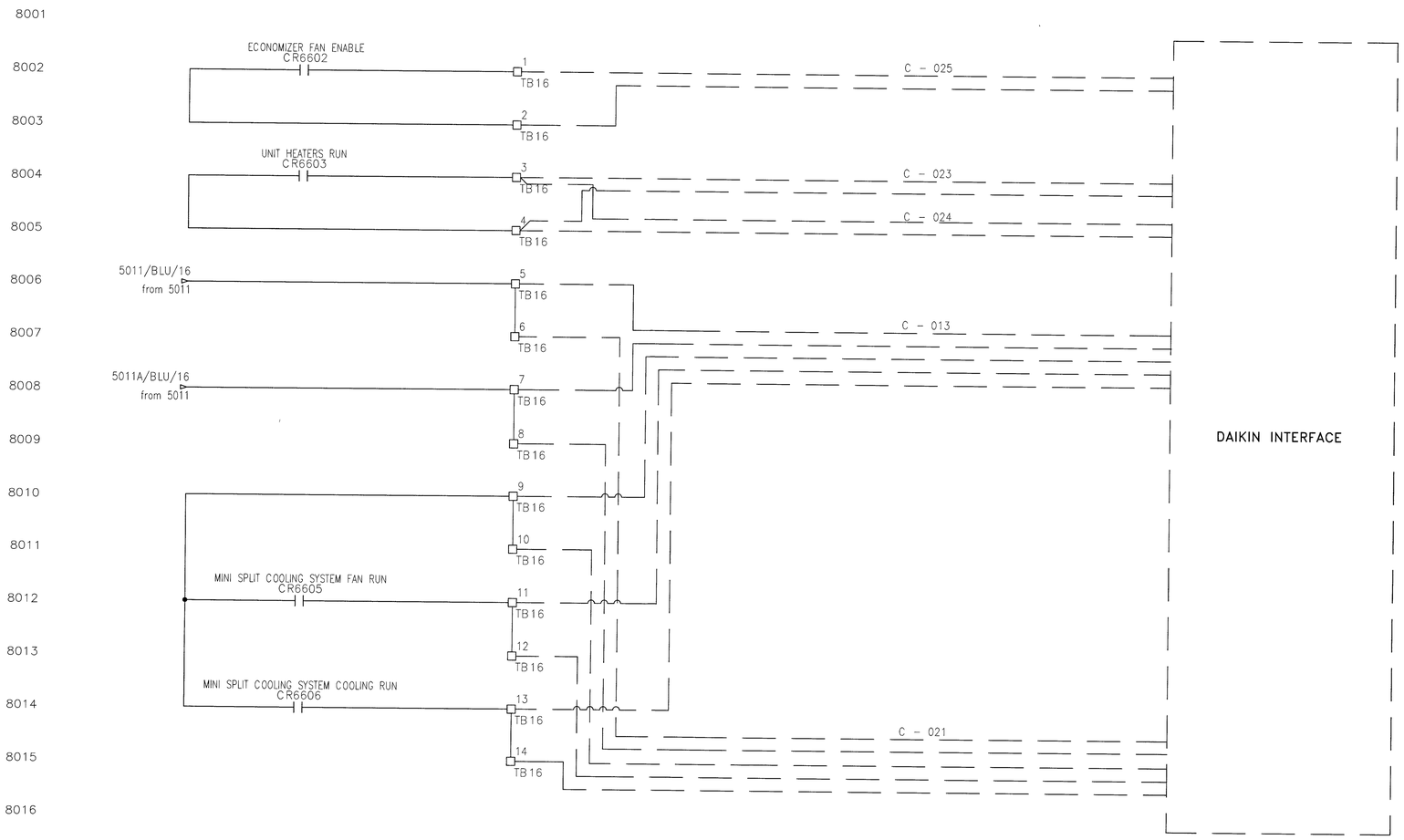

22x34 = FULL SCALE

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TALOS ENGINEERING INC.

REGISTERED PROFESSIONAL ENGINEER 94092PE OREGON SEPT 11, 2018 JASON WILLIAM MERRICK

Renews 12/31/26

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CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

CONTROL DRAWINGS - PANEL
DAIKIN INTERFACE

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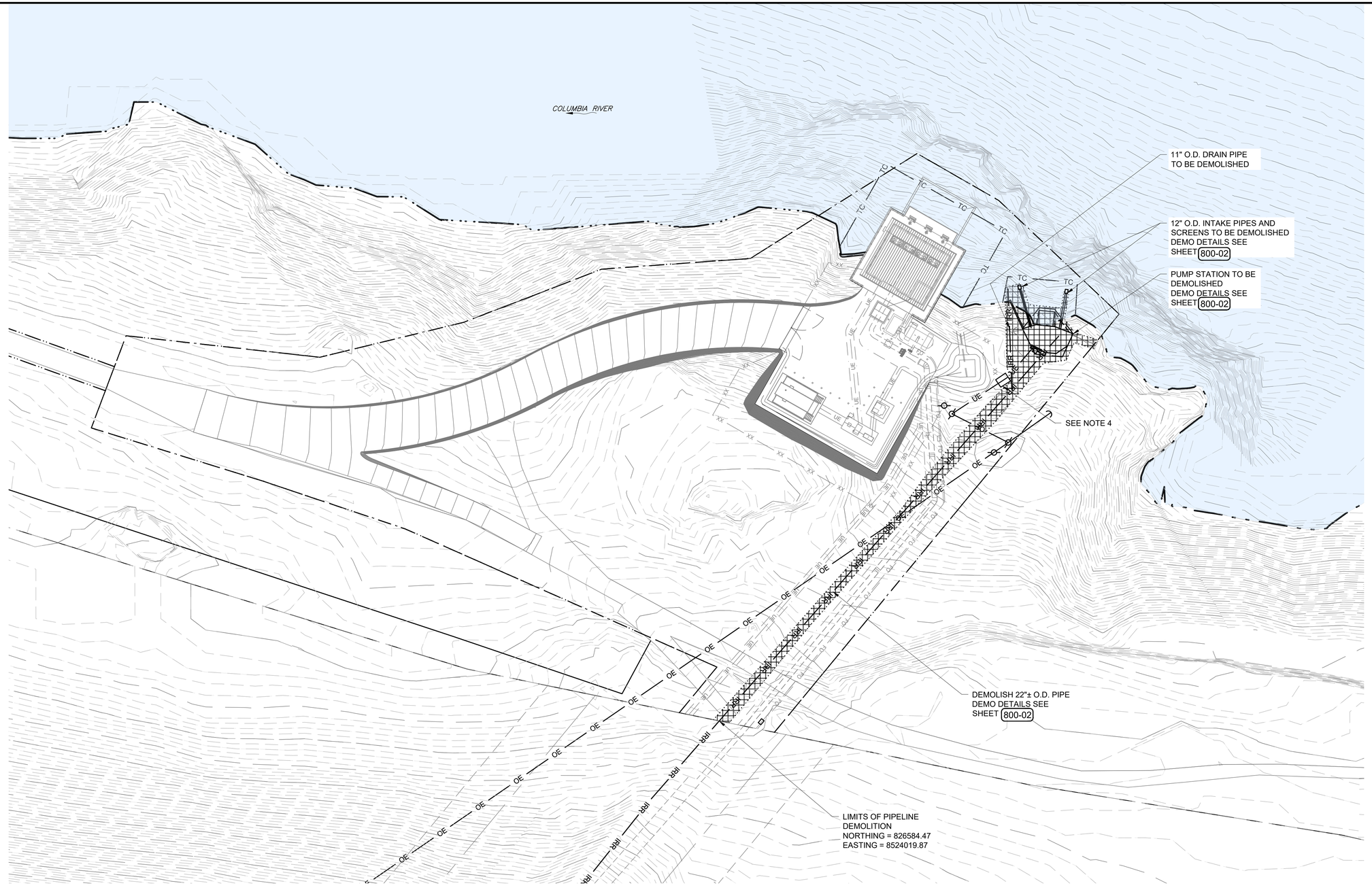
5002-001	07-09-25	701-80



INTAKE AREA PLAN

1" = 30'

30' 0 30' 60'

SCALE IN FEET

LEGEND

UE UE	NEW UNDERGROUND ELECTRIC
G G	NEW VEHICULAR GUARDRAIL
	PROPERTY LINE
	WATERLINE
	EASEMENT LINE
OE OE	EXISTING OVERHEAD ELECTRIC
UE UE	EXISTING UNDERGROUND ELECTRIC
IRR IRR	EXISTING PIPELINE
	DEMOLITION AREA

NOTES:

1. THE ACCESS ROAD (THE LEWIS AND CLARK TRAIL) IS A PUBLIC TRAIL AND MUST REMAIN OPEN TO THE PUBLIC DURING CONSTRUCTION.
2. SPEED LIMIT ALONG (THE LEWIS AND CLARK TRAIL) IS 10 MPH.
3. EXISTING PUMP STATION AND ASSOCIATED INTAKE PIPES AND BURIED DISCHARGE PIPE TO BE DEMOLISHED ONLY AFTER NEW PUMP STATION HAS BEEN COMMISSIONED AND AFTER APPROVAL BY OWNER AT THE END OF THE IRRIGATION SEASON.
4. ELECTRICAL DEMOLITION BY UMATILLA ELECTRIC COOPERATIVE.

REGISTERED PROFESSIONAL ENGINEER 15872 OREGON MAY 19, 1982 CHARLES W. CUTTING 10/17/25

EXPIRES: 12/31/2025

Know what's below. Call before you dig.

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CM	BJL	CM	5002-001	10-17-25	800-01

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

DEMOLITION
INTAKE AREA PLAN

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KleinschmidtGroup.com

22x34 = FULL SCALE

3" 2" 1" 0

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3"
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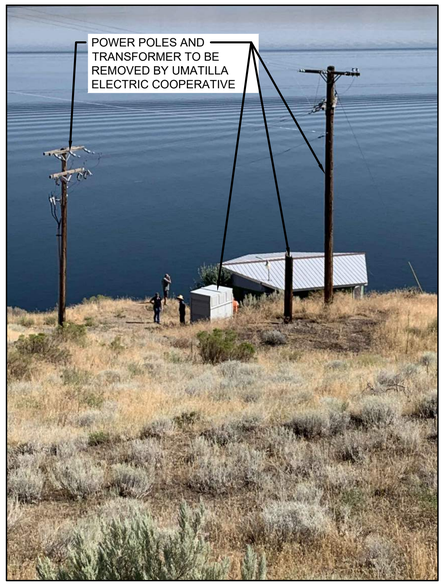
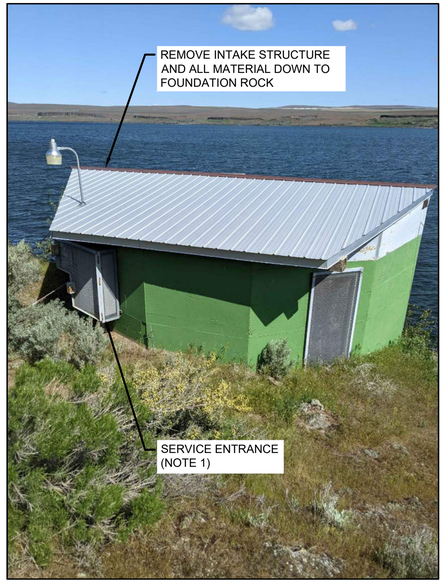
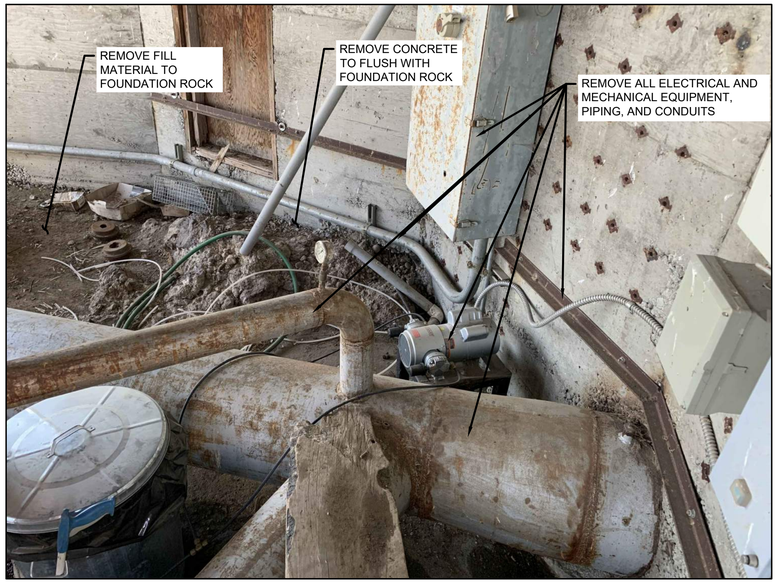
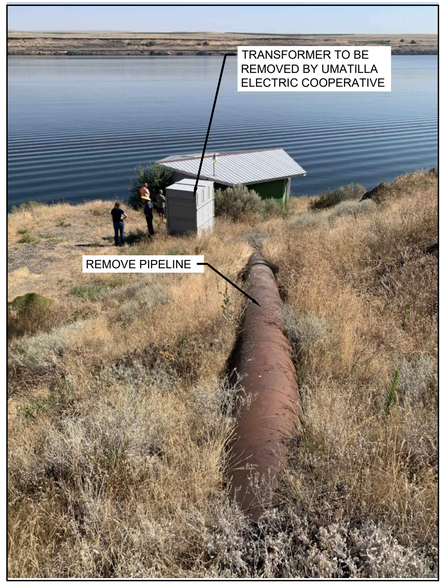
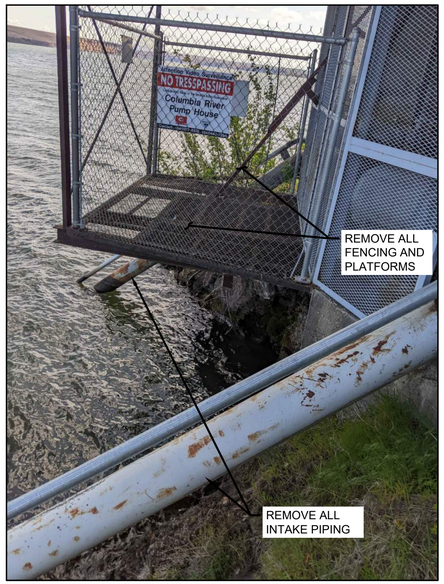
22x34 = FULL SCALE

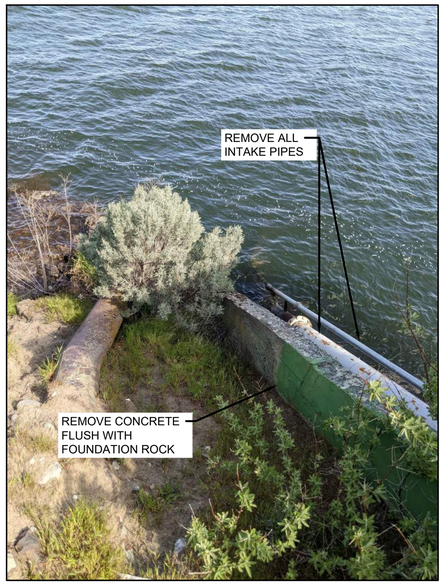


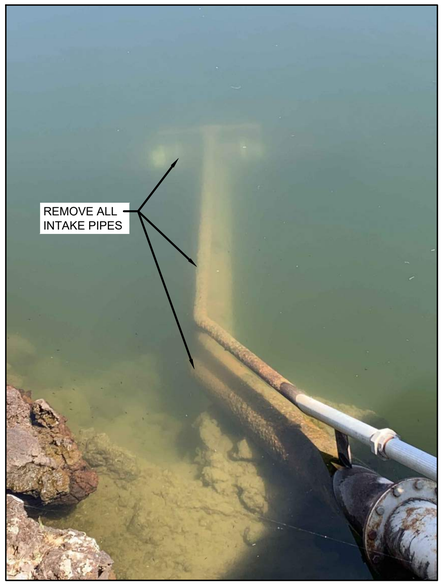












NOTES:
1. COORDINATE LIMITS OF ELECTRICAL DEMOLITION AT SERVICE ENTRANCE WITH UMATILLA ELECTRIC COOPERATIVE.

REGISTERED PROFESSIONAL ENGINEER
15872
OREGON
MAY 19, 1982
CHARLES W. CUTTING
10/17/25
EXPIRES: 12/31/2025

No.	Revision	Date	Drawn	Checked
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CM	BJL	CM	5002-001	10-17-25	800-02

CITY OF UMATILLA
UMATILLA, OREGON

CTUIR/COU JOINT PUMP AND PIPELINE PROJECT
INTAKE AND PUMP STATION

DEMOLITION
DETAILS

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