



Jordan Valley Water Conservancy District

8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088
PHONE (801) 565-4300

500 WEST 4500 SOUTH VAULT IMPROVEMENTS

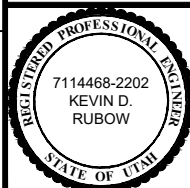
PROJECT NUMBER: 4295

FEBRUARY 2024

SHEET NO.	DRAWING NO.	SHEET TITLE
1	G1	COVER SHEET
2	G2	GENERAL NOTES
3	E1	ELECTRIC SITE PLAN
4	E2	ELECTRIC VAULT PLAN
5	E3	ELECTRIC DIAGRAMS
6	E4	ELECTRIC DETAILS - 1
7	E5	ELECTRIC DETAILS - 2
8	C1	CIVIL DETAILS - 1
9	C2	CIVIL DETAILS - 2



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REVISIONS			
REV.	DESCRIPTION	BY	DATE



LINE IS 1 INCH AT FULL SIZE (IF NOT 1" - SCALE ACCORDINGLY)	ORIGINAL SIZE B
SCALE: NTS	
DESIGN: CDT	
DRAWING: TMP	
PROJ. MGR: CDT	
APPROVAL: KDR	

500 WEST 4500 SOUTH VAULT IMPROVEMENTS	DATE 1/18/24
COVER SHEET	PROJECT NUMBER 4295
	DRAWING NUMBER G1
	SHEET NUMBER 1 OF 9

THE CONTRACTOR SHALL CAREFULLY READ ALL OF THE NOTES AND SPECIFICATION, THE CONTRACTOR SHALL ACCEPT THE TRUE MEANING AND BE RESPONSIBLE FOR COMPLYING WITH EACH.

GENERAL NOTES:

- ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS INCLUDED AS PART OF THE CONTRACT DOCUMENTS.
- IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL NECESSARY AND PROPER LABOR AND MATERIALS NECESSARY FOR THE WORK CONTEMPLATED AND THAT THE WORK BE IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATION. THE ENGINEER'S INTERPRETATION THEREOF SHALL BE CONCLUSIVE.
- WHERE THE PLANS OR SPECIFICATION DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE HIGHEST QUALITY ARE TO BE USED.
- THE CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PROJECT PLANS AND SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING UPON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR; IT SHALL BE EXPECTED THAT PRICES PROVIDED WITHIN THE CONTRACT DOCUMENTS SHALL INCLUDE ALL MATERIALS NECESSARY AND PROPER LABOR FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THE TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS IN THE NATURE, EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE ARE CERTAIN PECULIAR AND INHERENT CONDITIONS EXISTENT IN THE CONSTRUCTION OF THE PARTICULAR FACILITIES, WHICH MAY CREATE, DURING THE CONSTRUCTION PROGRAM, UNUSUAL OR UNSAFE CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF ALL PERMITS AND APPROVALS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT THE NECESSARY RIGHT-OF-WAYS, EASEMENTS, AND/OR PERMITS ARE SECURED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL, AT THE TIME OF BIDDING, AND, THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE OF UTAH TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS, AND SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT OF THE BID.
- CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO BIDDING TO SATISFY THEMSELVES BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS THEY MAY PREFER, OF THE LOCATION OF THE PROPOSED WORK, AND OF THE ACTUAL CONDITIONS OF AND AT THE SITE OF

- WORK. IF, DURING THE COURSE OF THEIR EXAMINATION, A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO THEM TO BE IN CONFLICT WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, THEY SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING THEIR BID. SUBMISSION OF A BID BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGMENT THAT, IF AWARDED THE CONTRACT, THEY HAVE REVIEWED AND ARE RELYING ON THEIR OWN EXAMINATION OF (1) THE SITE OF THE WORK, (2) ACCESS TO THE SITE, AND (3) ALL OTHER DATA AND MATTERS REQUISITE TO THE FULFILLMENT OF THE WORK AND ON THEIR OWN KNOWLEDGE OF EXISTING FACILITIES ON AND IN THE VICINITY OF THE SITE OF THE WORK TO BE CONSTRUCTED UNDER THIS CONTRACT. THE INFORMATION PROVIDED BY THE OWNER OR THE ENGINEER IS NOT INTENDED TO BE A SUBSTITUTE FOR, OR A SUPPLEMENT TO THE INDEPENDENT VERIFICATION BY THE CONTRACTOR TO THE EXTENT SUCH INDEPENDENT INVESTIGATION OF SITE CONDITIONS IS DEEMED NECESSARY OR DESIRABLE BY THE CONTRACTOR. CONTRACTOR SHALL ACKNOWLEDGE THAT THEY HAVE NOT RELIED SOLELY UPON OWNER OR ENGINEER FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND SUBMITTING.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER AND ENGINEER.
 - THE CONTRACTOR AGREES THAT:
 - THEY WILL BE RESPONSIBLE TO CLEAN THE JOB SITE AT THE END OF EACH PHASE OF WORK.
 - THEY WILL BE RESPONSIBLE TO REMOVE AND DISPOSE OF ALL TRASH, SCRAP AND UNUSED MATERIAL AT THEIR OWN EXPENSE IN A TIMELY MANNER.
 - THEY WILL BE RESPONSIBLE TO MAINTAIN THE SITE IN A NEAT, SAFE AND ORDERLY MANNER.
 - THEY WILL BE RESPONSIBLE TO KEEP MATERIALS, EQUIPMENT, AND TRASH OUT OF THE WAY OF OTHER CONTRACTORS SO AS NOT TO DELAY THE JOB. FAILURE TO DO SO WILL RESULT IN A DEDUCTION FOR THE COST OF CLEAN UP FROM THE FINAL PAYMENT.
 - THEY SHALL BE RESPONSIBLE FOR THEIR OWN SAFETY, PERMITS, RETESTING AND RE-INSPECTION AT THEIR OWN EXPENSE.
 - THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
 - IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING

- EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID. THERE WILL BE NO EXTRA COST DUE TO THE CONTRACTOR FOR REPLACING OR REPAIRING EXISTING IMPROVEMENTS.
- WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, AFTER PROPER BACKFILLING AND/OR CONSTRUCTION, WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.
 - THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION, DIMENSION, AND LAYOUT OF ALL STRUCTURES AND OTHER FACILITIES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, MODIFICATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
 - WORK IN ANY EASEMENT AND/OR RIGHT-OF-WAY IS SUBJECT TO THE APPROVAL AND ACCEPTANCE OF THE REGULATORY AGENCY RESPONSIBLE FOR OPERATION AND/OR MAINTENANCE OF SAID EASEMENT AND/OR RIGHT-OF-WAY.
 - UPON SUBSTANTIAL COMPLETION OF WORK, THE CONTRACTOR SHALL BROOM SWEEP EACH SITE PRIOR TO CALLING FOR INSPECTION.
 - JVWCD STAFF WILL SERVE AS ENGINEER ON THIS PROJECT.
 - THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MOST RECENTLY ADOPTED REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE, INTERNATIONAL PLUMBING CODE, INTERNATIONAL BUILDING CODE, NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY, STATE, AND NATIONAL CODES AND REGULATIONS IN EFFECT AT THE DATE OF THE BID.
 - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
 - ANY PART OF THIS INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, AND OTHER DEVICES/ACCESSORIES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.

SURFACE IMPROVEMENTS:

- SURFACE IMPROVEMENTS AND LANDSCAPE DISTURBED DURING THIS WORK SHALL BE REPLACED AS PART OF THE WORK. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE.
- ALL CONSTRUCTION SHALL CONFORM WITH THE CURRENT CITY STANDARD SPECIFICATIONS AND DETAILS .

ELECTRICAL IMPROVEMENTS:

- PRIOR TO SUBMITTING A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDE IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS. SHOP DRAWINGS ARE REQUIRED.
- THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES FOUND BETWEEN THE INTENDED FUNCTION OF EQUIPMENT AND EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL BID. FAILURE TO REPORT ANY DISCREPANCY (CATALOG NUMBERS, DISCONTINUED ITEMS, ETC.) DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING EQUIPMENT WHICH SHALL CONFORM TO FULFILL THE INTENT OF THE CONTRACT DOCUMENTS. NOR SHALL IT BE USED AS A CONDITION TO OBTAIN ADDITIONAL FUNDS FROM THE OWNER AFTER THE CONTRACT IS AWARDED. THE CONTRACTOR SHALL REQUEST ALL CLARIFICATIONS OF CONTRACT DOCUMENT REQUIREMENTS IN WRITING TO THE ENGINEER A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM..
- RUN A NEUTRAL CONDUCTOR FOR EACH PHASE CONDUCTOR (EACH CIRCUIT IN A CONDUIT. NOT MORE THAN THREE CIRCUITS IN A CONDUIT.
- ALL NEW EXPOSED CONDUIT SHALL RUN AGAINST THE WALLS OR CEILINGS. DO NOT PENDANT MOUNT ANY CONDUIT FROM THE CEILINGS WITHOUT APPROVAL.
- ALL NEW WORK SHALL MEET THE CURRENT ADOPTED NATIONAL ELECTRICAL CODE.
- CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.

UNDERGROUND UTILITIES:

- PRIOR TO CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY ALL EXISTING IMPROVEMENTS AND TO EXPOSE ALL EXISTING UNDERGROUND UTILITIES RELATED TO THE PROJECT, INCLUDING BUT NOT LIMITED TO, SEWER, STORM DRAIN, WATER, IRRIGATION, GAS, ELECTRICAL, ETC. AND SHALL NOTIFY THE ENGINEER IN WRITING FORTY-EIGHT (48) HOURS IN ADVANCE OF EXPOSING THE UTILITIES, SO THAT THE EXACT LOCATION AND ELEVATION CAN BE VERIFIED AND DOCUMENTED. THE COST ASSOCIATED TO PERFORM THIS WORK SHALL BE INCLUDED IN EITHER THE LUMP SUM CLEARING COST OR IN THE VARIOUS ITEMS OF WORK.
- PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY BLUE STAKES AT PHONE NUMBER 811 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK. THE CONTRACTOR SHALL RECORD THE BLUE STAKES ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTORS SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED. THE CONTRACTOR SHALL COMPLY WITH INDUSTRIAL COMMISSION OF UTAH SAFETY ORDERS SECTION 68 - EXCAVATIONS, AND SECTION 69 - TRENCHES, ALONG WITH ANY LOCAL CODES OR ORDINANCES.
- PRIOR TO OPENING AN EXCAVATION, CONTRACTOR SHALL DETERMINE WHETHER UNDERGROUND INSTALLATIONS; I.E. SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING; AND, WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.



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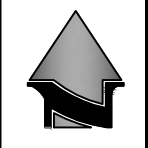
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500 WEST 4500 SOUTH VAULT IMPROVEMENTS

GENERAL NOTES

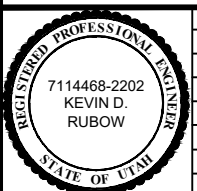
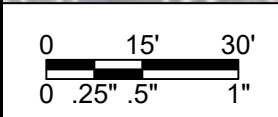
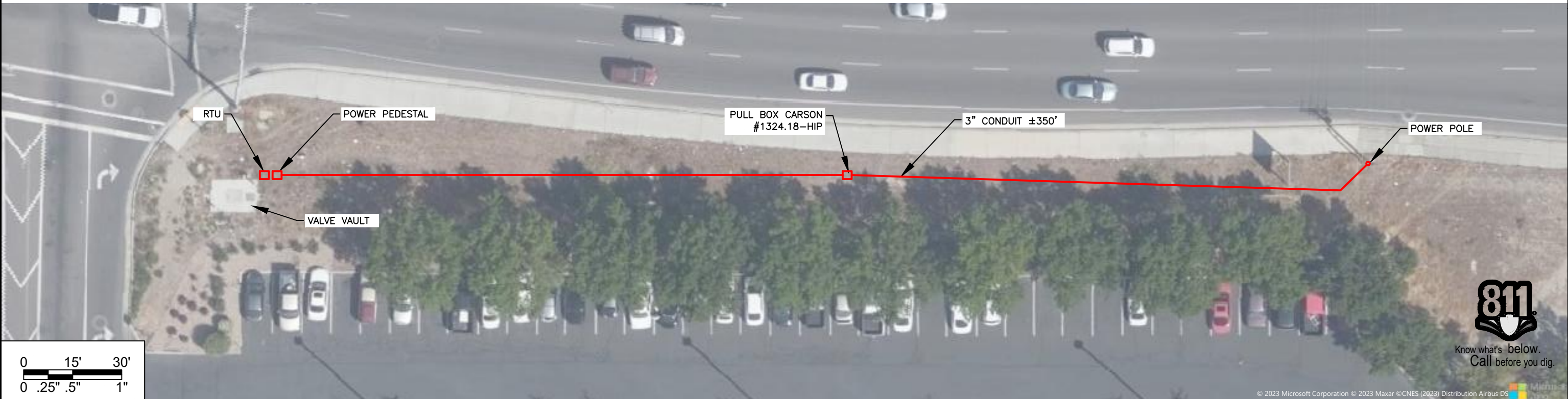
DATE	1/18/24
PROJECT NUMBER	4295
DRAWING NUMBER	G2
SHEET NUMBER	2 OF 9

I:\PIPELINE\4500S_24IN\4295_500 W REG VAULT UPGRADES-2023\2_ENGINEERING\DWGS\2023 PROJECT\4295 DRAWING SET.DWG 1-18M



NOTES:

1. A UTILITY SURVEY WAS NOT PERFORMED. CONTRACTOR SHALL RELY ON BLUE STAKES AND THEIR OWN POTHOLING TO IDENTIFY CONFLICTING UTILITIES.
2. FURNISH & INSTALL RTU ENCLOSURE, RTU MAST, AND CONCRETE PEDESTAL. SEE DETAILS ON SHEET E4.
3. FURNISH AND INSTALL ELECTRICAL SERVICE CONDUIT AND POWER PEDESTAL PER MURRAY CITY POWER'S STANDARDS. SEE DETAILS ON SHEET E4. COORDINATE WITH MURRAY CITY BUILDING DEPARTMENT FOR INSPECTION OF ELECTRICAL SERVICE. CONTRACTOR TO INSTALL UNDERGROUND 3" CONDUIT FOR ELECTRICAL SERVICE. COORDINATE WITH MURRAY POWER TO INSTALL SERVICE CABLE AND POWER METER.
4. INSTALL (1) 1.5" CONDUIT AND (2) 1" CONDUITS FROM THE VAULT TO THE RTU ENCLOSURE. INSTALL (2) 1" CONDUITS FROM POWER PEDESTAL TO RTU ENCLOSURE.
5. PROVIDE (1) 1.5" SPARE CONDUIT AND (1) 1" SPARE CONDUIT AND STUB CONDUITS APPROXIMATELY 12" OUT FROM THE BASE OF RTU PEDESTAL. PROVIDE (2) 1" SPARE CONDUITS AND STUB CONDUITS APPROXIMATELY 12" OUT FROM THE BASE OF POWER PEDESTAL. INSTALL CONDUIT CAPS. INSPECTION OF CONDUITS SHALL BE REQUIRED BY ENGINEER PRIOR TO PLACEMENT OF CONCRETE PEDESTALS.
6. ALL CONDUITS WITHIN THE VAULT SHALL BE GALVANIZED RIGID CONDUIT. ALL BURIED CONDUITS SHALL BE SCH 40 PVC.



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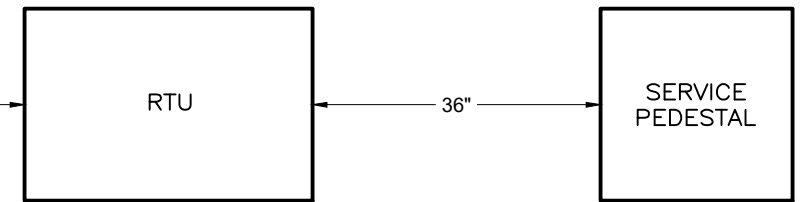
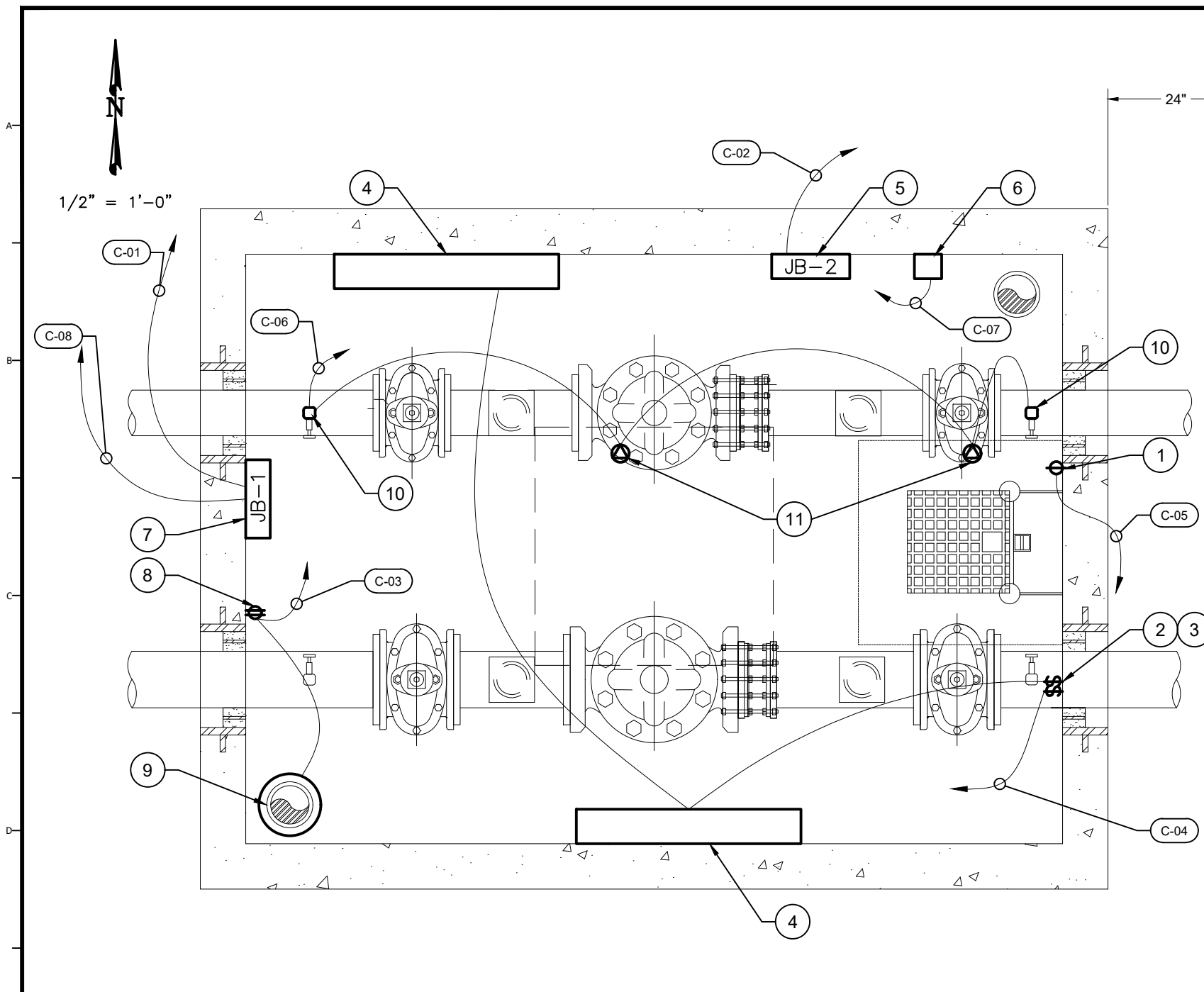
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ELECTRICAL SITE PLAN

DATE	1/18/24
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SHEET NUMBER	3 OF 9

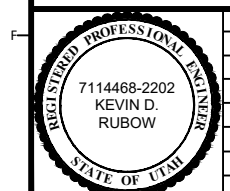


ELECTRICAL EQUIPMENT		
NUMBER	DESCRIPTION	COMMENTS
1	SUMP PUMP RECEPTACLE	INSTALL 20 AMP SIMPLEX WR RECEPTACLE WITH IN-USE WEATHERPROOF COVER. MOUNT 48" ABOVE FLOOR.
2	LIGHT SWITCH	MOUNT SWITCH TO BE ACCESSIBLE FROM HATCH
3	FAN HOA SWITCH	MOUNT SWITCH TO BE ACCESSIBLE FROM HATCH (SEE DETAIL E5-G)
4	LIGHT FIXTURE	LITHONIA FIXTURE, 120 VAC (XVLM L48 5000LM MVOLT 40K 80 CRI OR APPROVED EQUAL)
5	INSTRUMENTATION JUNCTION BOX	NEMA 4X FIBERGLASS ENCLOSURE - HOFFMAN A16148CHQRFQ
6	FLOOD / LEVEL SWITCH	SEE DETAIL E5-H
7	FAN TIMER ENCLOSURE / POWER JUNCTION BOX	NEMA 4X FIBERGLASS ENCLOSURE - HOFFMAN A16148CHQRFQ WITH A16P14 PANEL (SEE DETAIL E5-F)
8	CONVENIENCE RECEPTACLE	INSTALL 20 AMP GFCI WR RECEPTACLE WITH WEATHERPROOF COVER. MOUNT 48" ABOVE FLOOR.
9	EXHAUST FAN	FANTECH 6" FR 150. INSTALL EXHAUST FAN ON EXISTING VENT PIPING. SEE DETAIL A ON SHEET C2
10	PRESSURE TRANSMITTER	SEE DETAIL D ON SHEET C1
11	ACCESS HATCH POSITION SWITCH	24 VAC - N.C. INTRUSION SWITCH. WIDE-GAP MAGNETIC CONTACT SWITCH

NOTES:

- ATTACH CONDUIT TO STRUCTURE WITH MALLEABLE CLAMPS WITH BACK STRAP OR UNISTRUT WITH STRUT STRAPS. WITHIN THE VAULT ALL ANCHORS, UNISTRUT, AND STRUT STRAPS SHALL BE STAINLESS STEEL. DO NOT PENDANT MOUNT ANY CONDUIT FROM THE CEILINGS. (PRESSURE TRANSMITTERS EXCLUDED).
- ALL CONDUITS WITHIN VAULT SHALL BE GALVANIZED RIGID STEEL. MINIMUM SIZE OF CONDUIT TO BE 3/4".
- ALL FLEXIBLE CONDUIT SHALL BE LIQUIDTIGHT NON-METALLIC TYPE.
- CONDUIT BODIES AND DEVICE BOXES SHALL BE CAST MALLEABLE IRON, TYPE FS OR FD.
- ALL CONDUCTORS SHALL BE STRANDED COPPER.
- ALL CONDUIT PENETRATIONS INTO JUNCTION BOXES OR ENCLOSURES SHALL USE THREADED WATER TIGHT HUBS (MYERS HUB). PROVIDE DRAINS IN FITTINGS & JUNCTION BOXES.
- ALL WIRING DEVICES SHALL BE HEAVY DUTY, BACK WIRED ONLY. STRANDED CONDUCTORS SHALL NOT BE WRAPPED AROUND SCREWS.
- INSTALL LIGHT FIXTURES ON VAULT WALL, 7.5' ABOVE FLOOR.
- CONTRACTOR SHALL PROVIDE CONDUCTORS AND TERMINATIONS FOR A FULLY FUNCTIONAL SYSTEM.
- CONTRACTOR SHALL PROVIDE 6-FOOT SERVICE LOOP FOR ALL CONDUCTORS IN OWNER'S RTU CABINET. RTU INTERIOR COMPONENTS AND ASSEMBLY BY JVVCD.
- FILL VAULT WALL PENETRATIONS WITH NON-SHRINK GROUT.

VAULT CONDUIT AND CONDUCTOR SCHEDULE						
ID	DESCRIPTION	MIN. CONDUIT		CONDUCTORS (CU) PER CONDUIT		COMMENTS
		QTY	SIZE	(QTY) & SIZE	GND	
C-01	JB-1 TO RTU	1	1"	(6) #12 AWG	#12	CONDUIT (C-01) SHALL NOT PENETRATE TOP OF JUNCTION BOX
C-02	JB-2 TO RTU	1	1.5"	(2) TSP #18 AWG (6) #14 AWG	#12	CONDUIT (C-02) SHALL NOT PENETRATE TOP OF JUNCTION BOX
C-03	CONVENIENCE RECEPTACLE & EXHAUST FAN TO JB-1	1	3/4"	(8) #12 AWG	#12	
C-04	LIGHT SWITCH & FAN SWITCH TO JB-1	1	3/4"	(5) #12 AWG	#12	
C-05	SUMP PUMP RECEPTACLE TO JB-1	1	3/4"	(2) #12 AWG	#12	
C-06	PIT-1 & PIT-2 & ACCESS HATCH POSITION SWITCH TO JB-2	1	3/4"	(2) TSP #18 AWG, (4) #14 AWG	--	
C-07	FLOOD SWITCH TO JB-2	1	3/4"	(2) #14 AWG	--	
C-08	JB-1 TO RTU (SPARE CONDUIT)	1	1"	--	--	CONDUIT (C-08) SHALL NOT PENETRATE TOP OF JUNCTION BOX

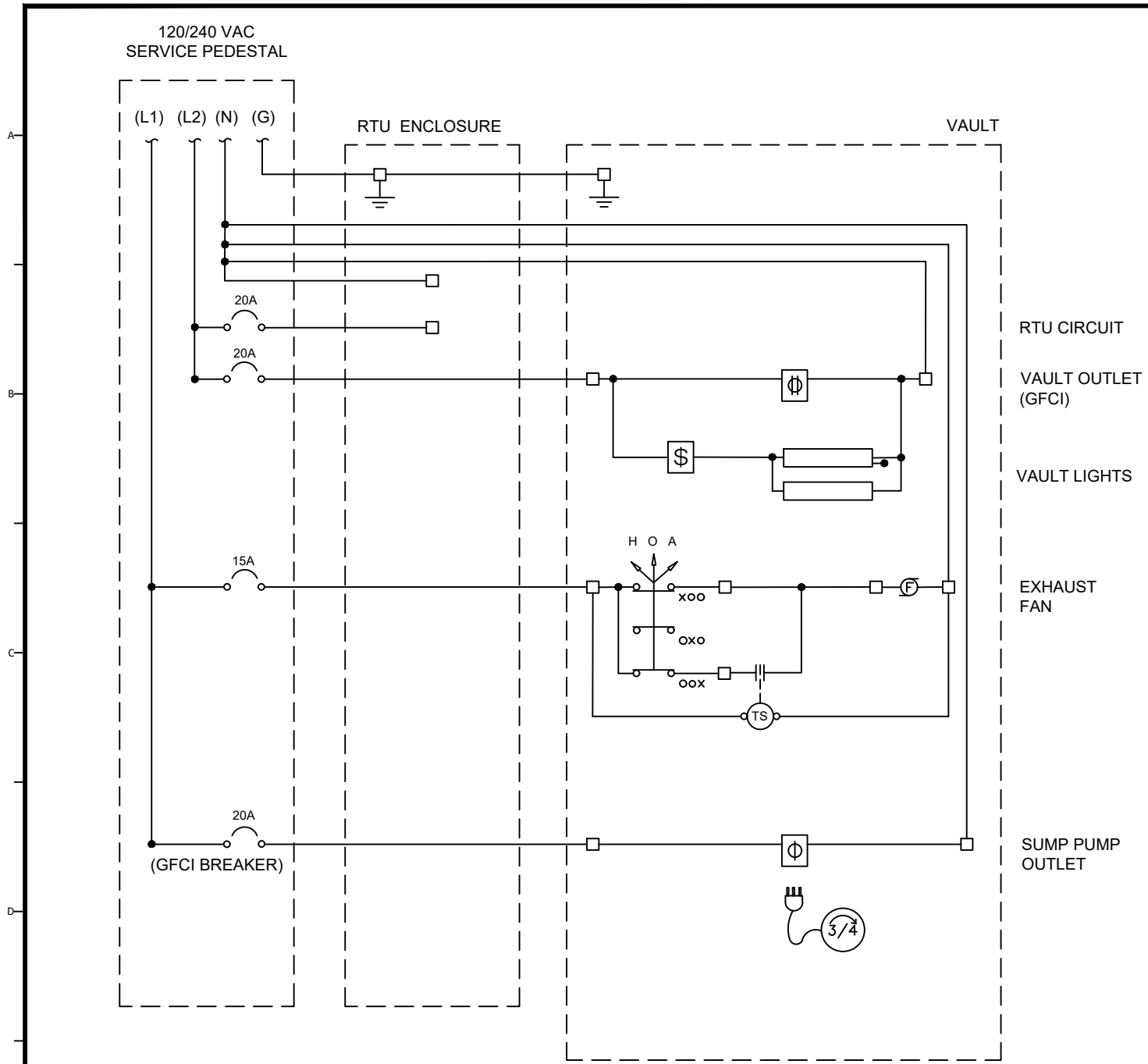


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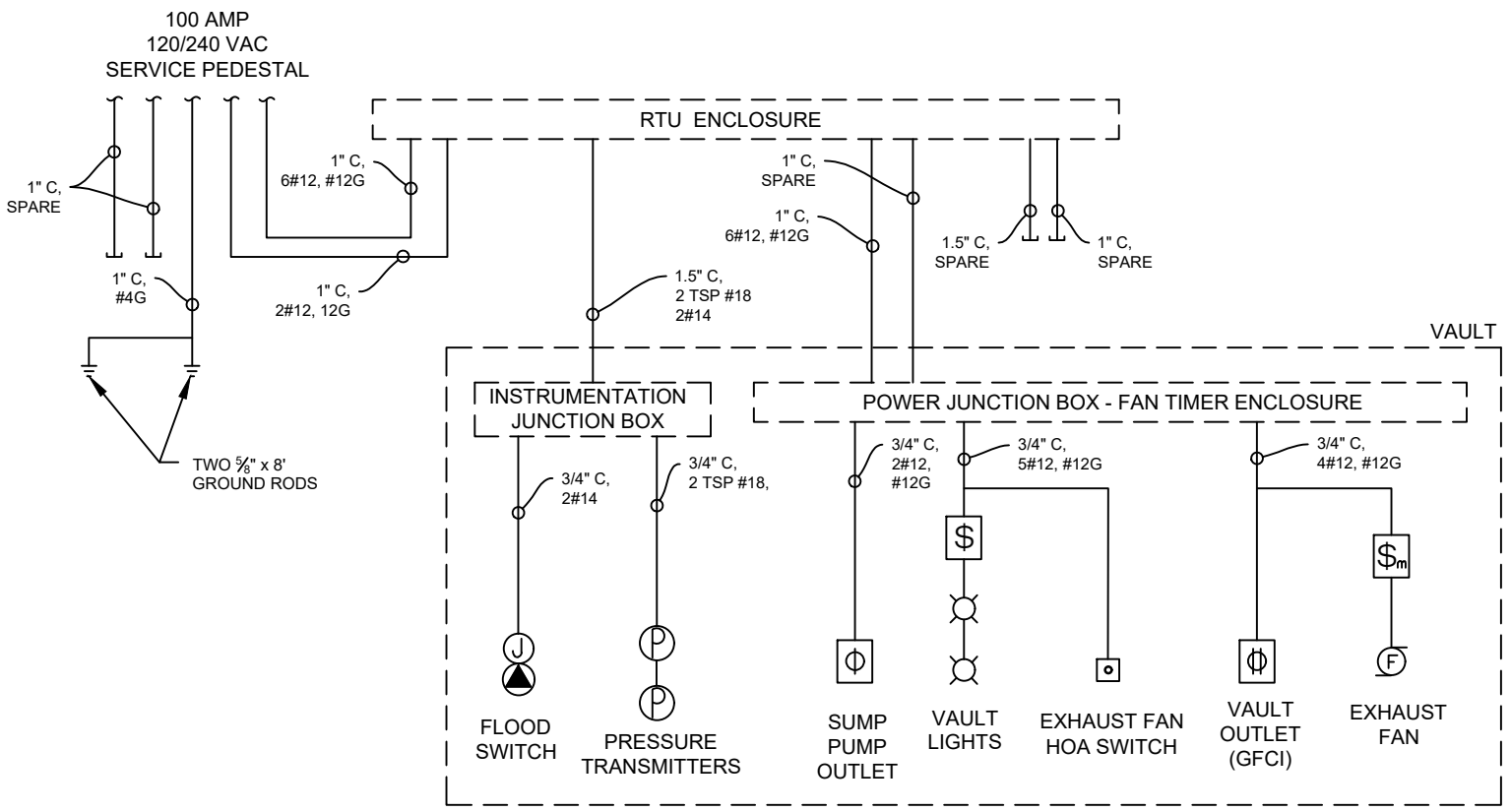

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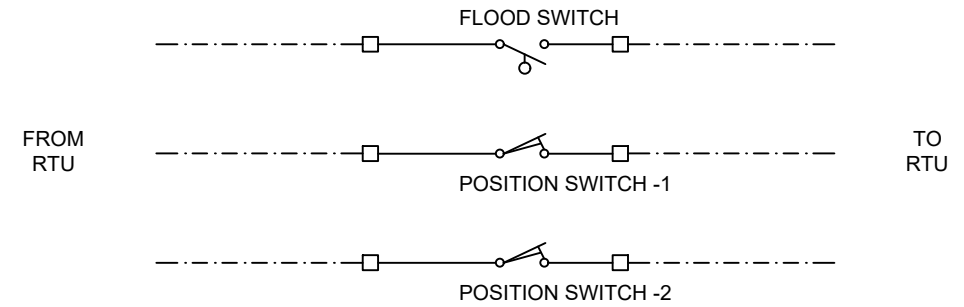
POWER DAIGRAM



ONE-LINE DIAGRAM

NOTES:

- CONTRACTOR SHALL PROVIDE 6-FOOT SERVICE LOOP FOR ALL CONDUCTORS IN OWNER'S RTU CABINET. RTU INTERIOR COMPONENTS AND ASSEMBLY BY JWCD.
- CONTRACTOR TO FURNISH & INSTALL RTU ENCLOSURE/PEDESTAL AND PROVIDE BACK PANEL TO OWNER AT START OF THE PROJECT. BACK PANEL SHALL BE HOFFMAN A36P30, PAINTED WHITE.
- VAULT EQUIPMENT CONDUCTORS SHALL NOT BE SPLICED WITHIN THE RTU.



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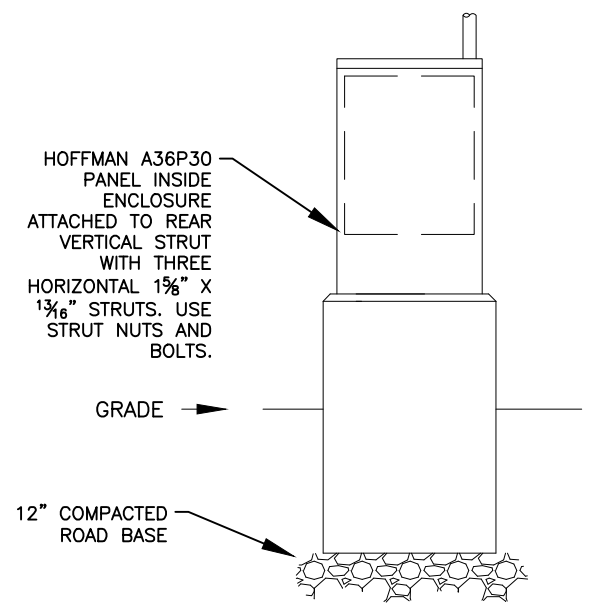
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DRAWING: TMP
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APPROVAL: KDR

500 WEST 4500 SOUTH VAULT IMPROVEMENTS

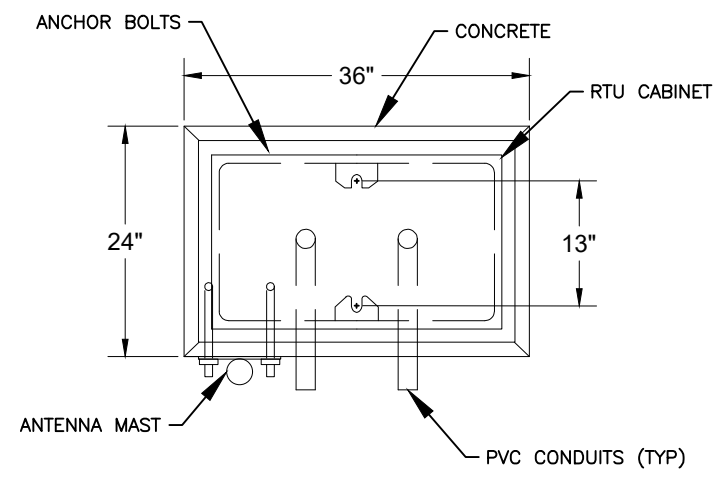
ELECTRICAL DIAGRAMS

DATE	2/8/24
PROJECT NUMBER	4295
DRAWING NUMBER	E3
SHEET NUMBER	5 OF 9

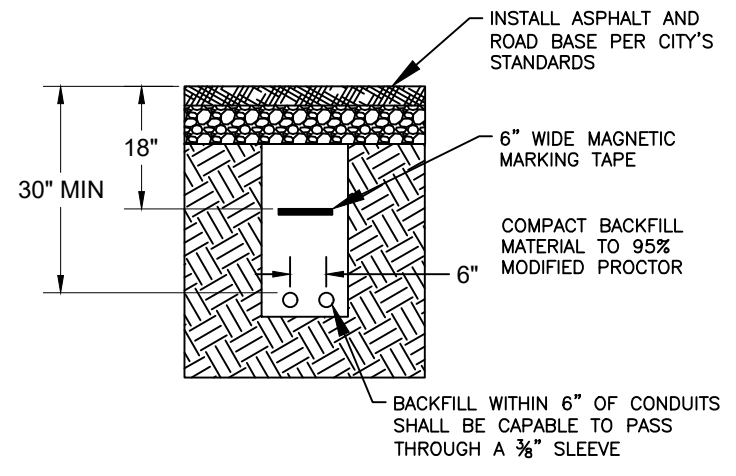
NOTE:
 1. PROVIDE CAST IN PLACE CONCRETE PEDESTAL. ENGINEER SHALL INSPECT CONDUITS PRIOR TO CONCRETE PLACEMENT, GIVE 48-HOUR NOTICE TO ENGINEER.
 2. PLACE PEDESTAL OVER 12" COMPACTED ROAD BASE (95% MODIFIED PROCTOR).



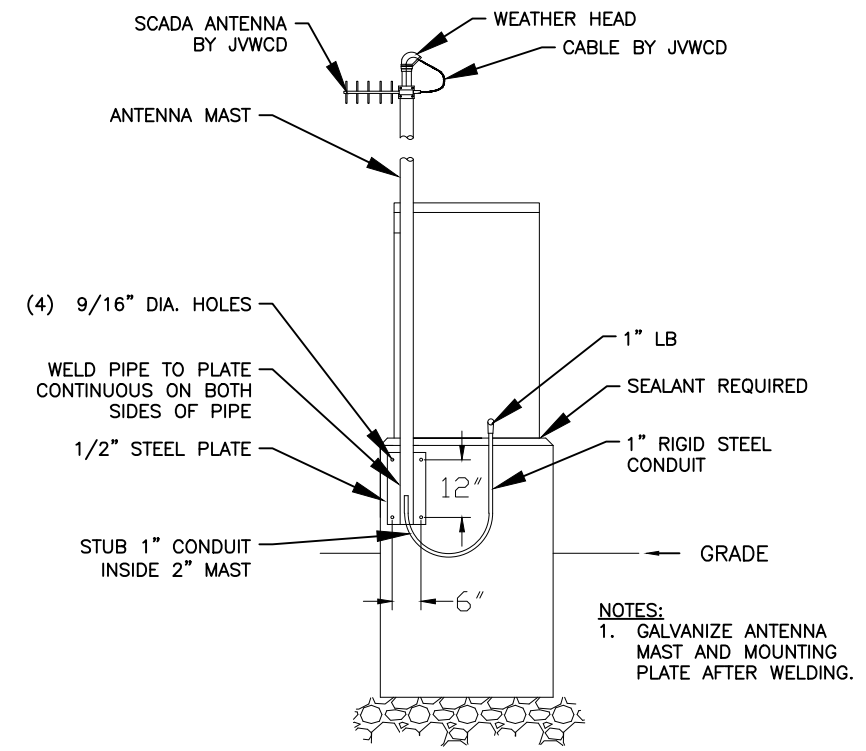
(A) RTU PEDESTAL FRONT ELEVATION



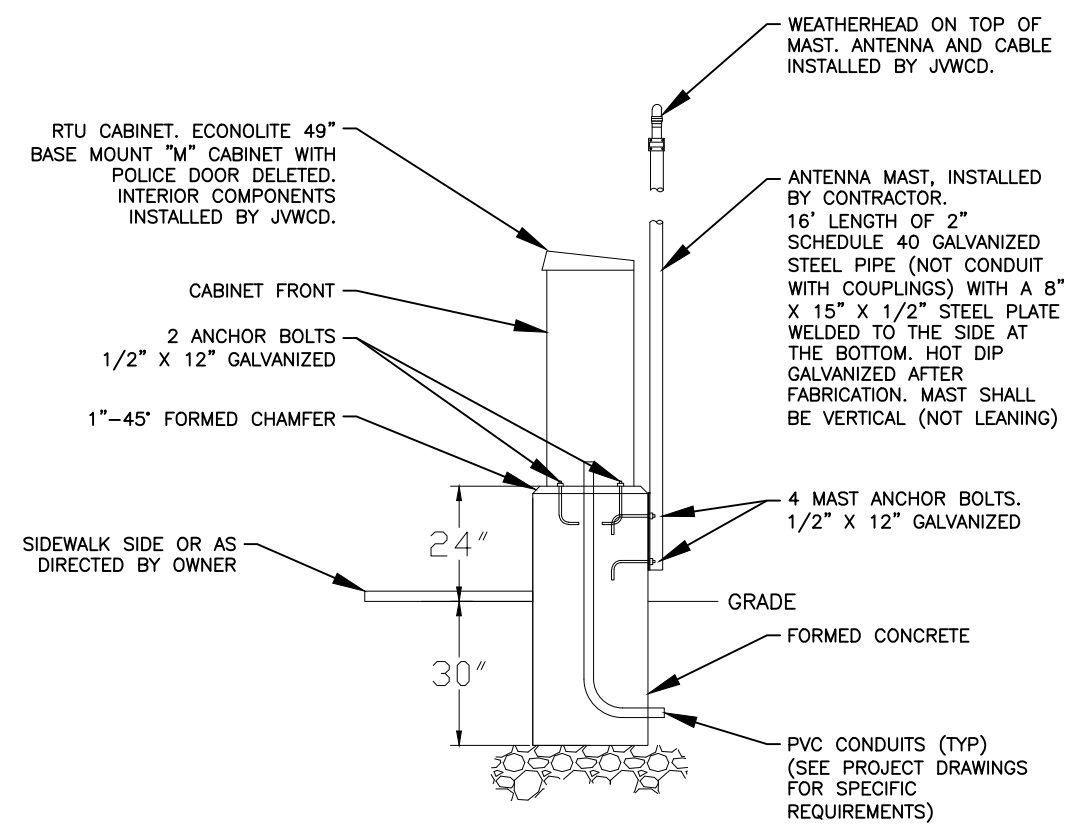
(B) RTU PEDSTAL PLAN VIEW



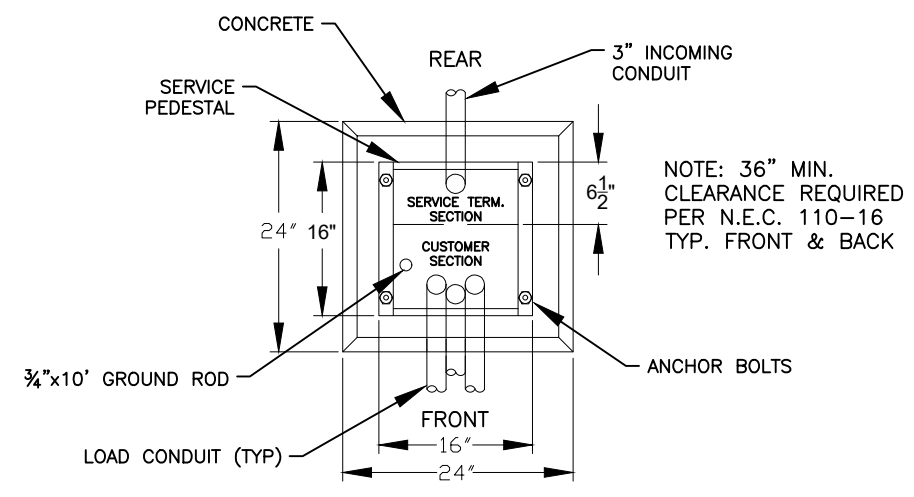
(C) TRENCH DETAIL



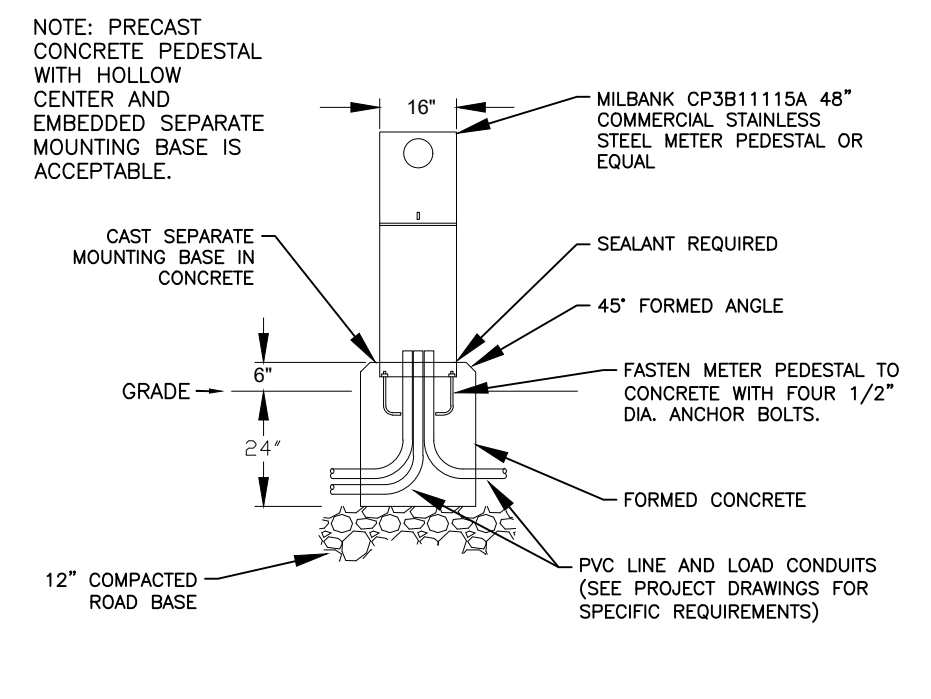
(D) RTU PEDSTAL REAR ELEVATION & MAST DETAIL



(E) RTU PEDSTAL SIDE ELEVATION



(F) ELECTRICAL SERVICE PEDESTAL PLAN VIEW ENLARGED



(G) ELECTRICAL SERVICE PEDESTAL ELEVATION



REV.	DESCRIPTION	BY	DATE

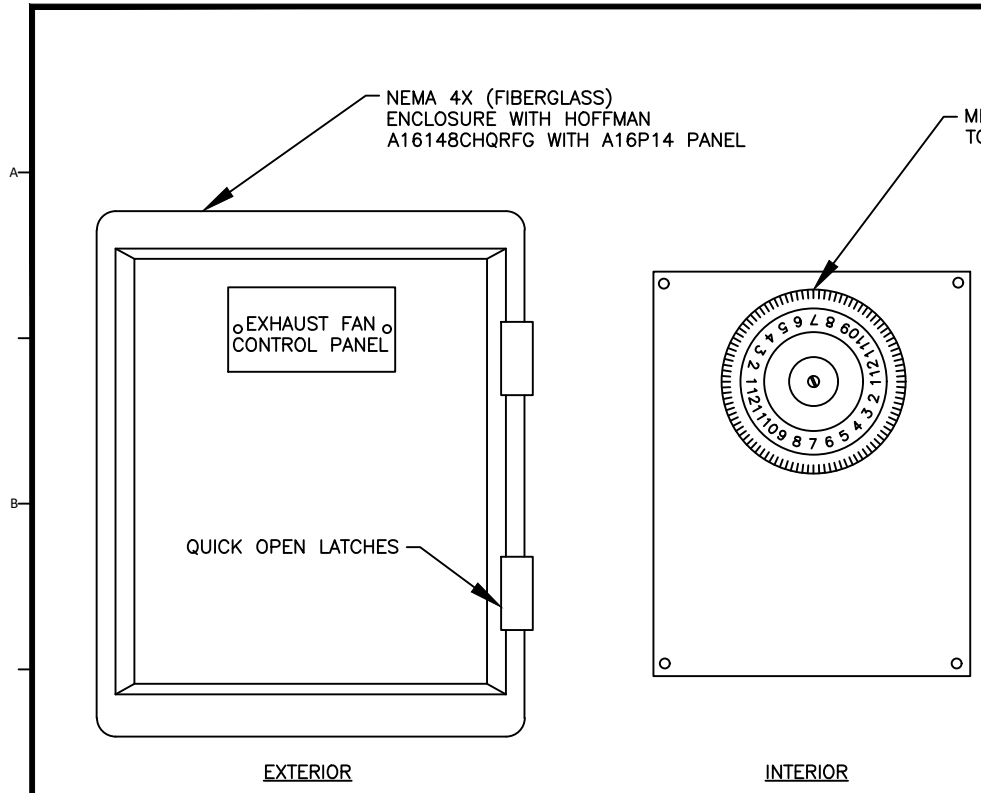
JORDAN VALLEY WATER CONSERVANCY DISTRICT
 8215 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84088-0070
 PHONE (801) 565-4300

LINE IS 1 INCH AT FULL SIZE (IF NOT 1" - SCALE ACCORDINGLY)	ORIGINAL SIZE B
SCALE: NTS	
DESIGN: CDT	
DRAWING: TMP	
PROJ. MGR: CDT	
APPROVAL: KDR	

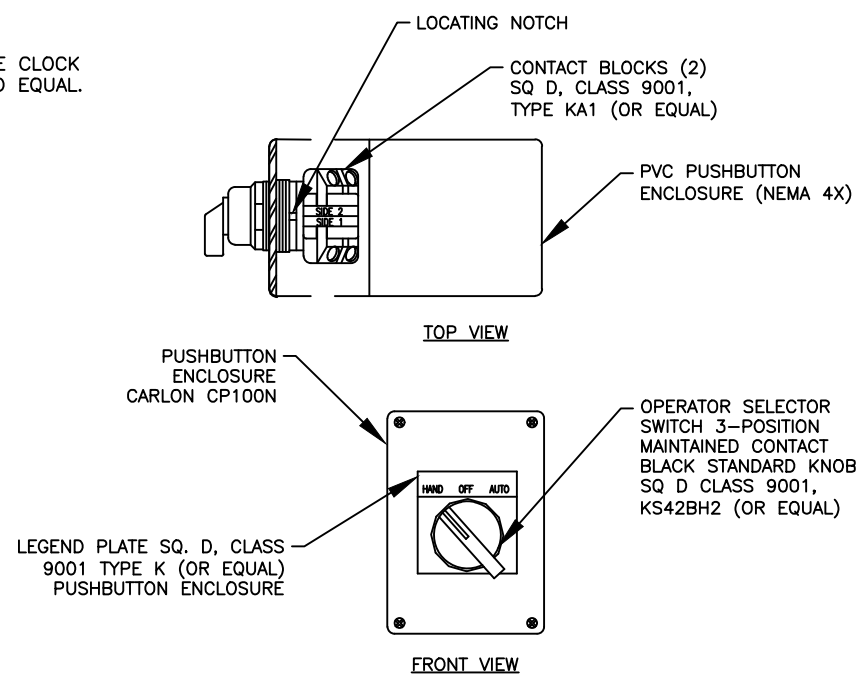
500 WEST 4500 SOUTH VAULT IMPROVEMENTS

ELECTRIC DETAILS - 1

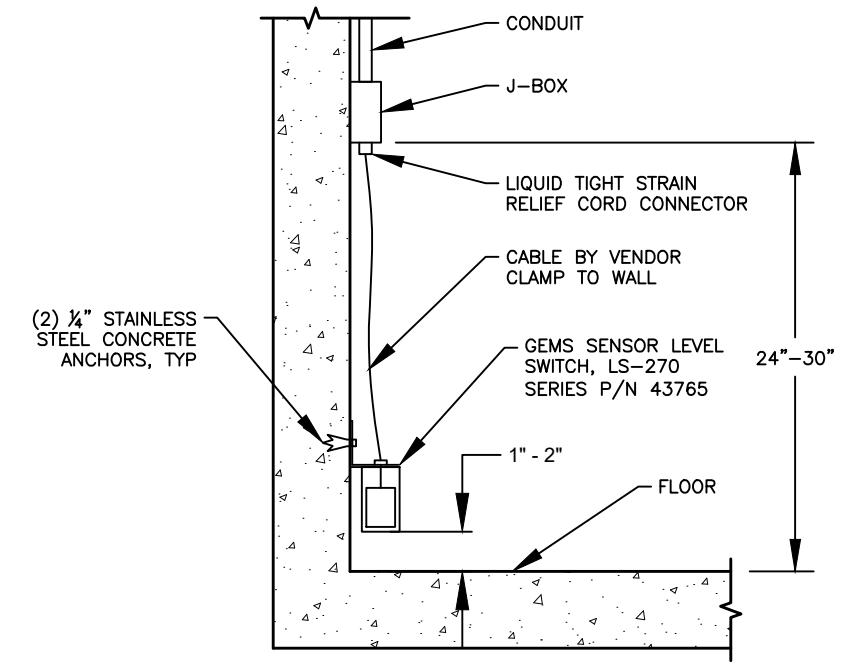
DATE	2/8/24
PROJECT NUMBER	4295
DRAWING NUMBER	E4
SHEET NUMBER	6 OF 9



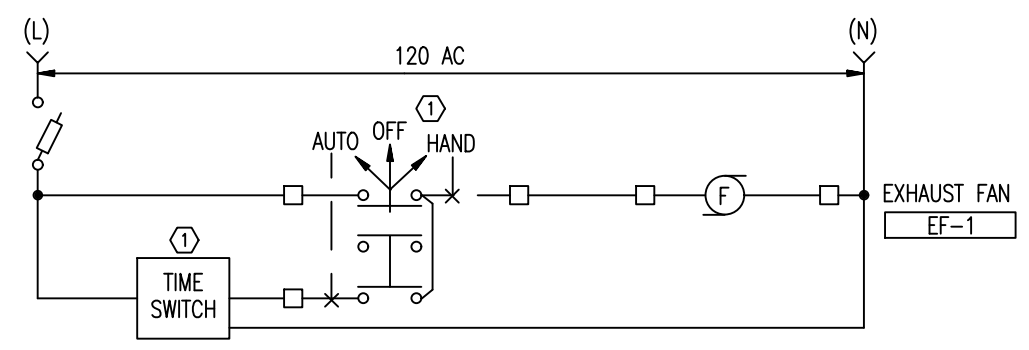
(F) VAULT EXHAUST FAN CONTROL PANEL



(G) EXHAUST FAN HAND-OFF-AUTO SWITCH

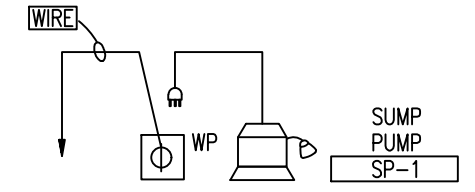
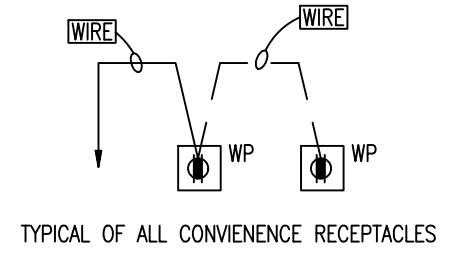
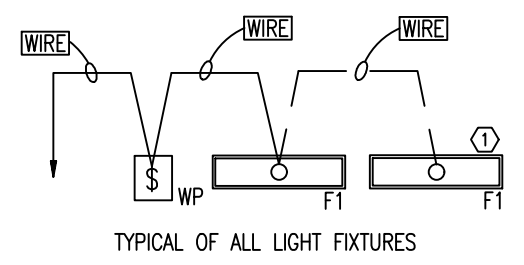


(H) FLOOD SWITCH DETAIL

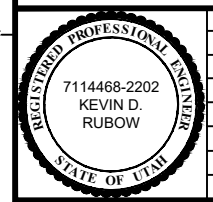


- NOTES:**
1. PROVIDE A HEAVY DUTY WATERTIGHT "HOA" SELECTOR SWITCH IN A NEMA 4 ENCLOSURE, NEAR THE VAULT ENTRANCE.
 2. OPERATE FAN FOR 30 MINUTES EVERY 6 HOURS. LOCATE TIME SWITCH IN A NEMA 4 ENCLOSURE.

(I) VAULT EXHAUST FAN CONTROL DIAGRAM



(J) TYPICAL DEVICE WIRING DIAGRAM



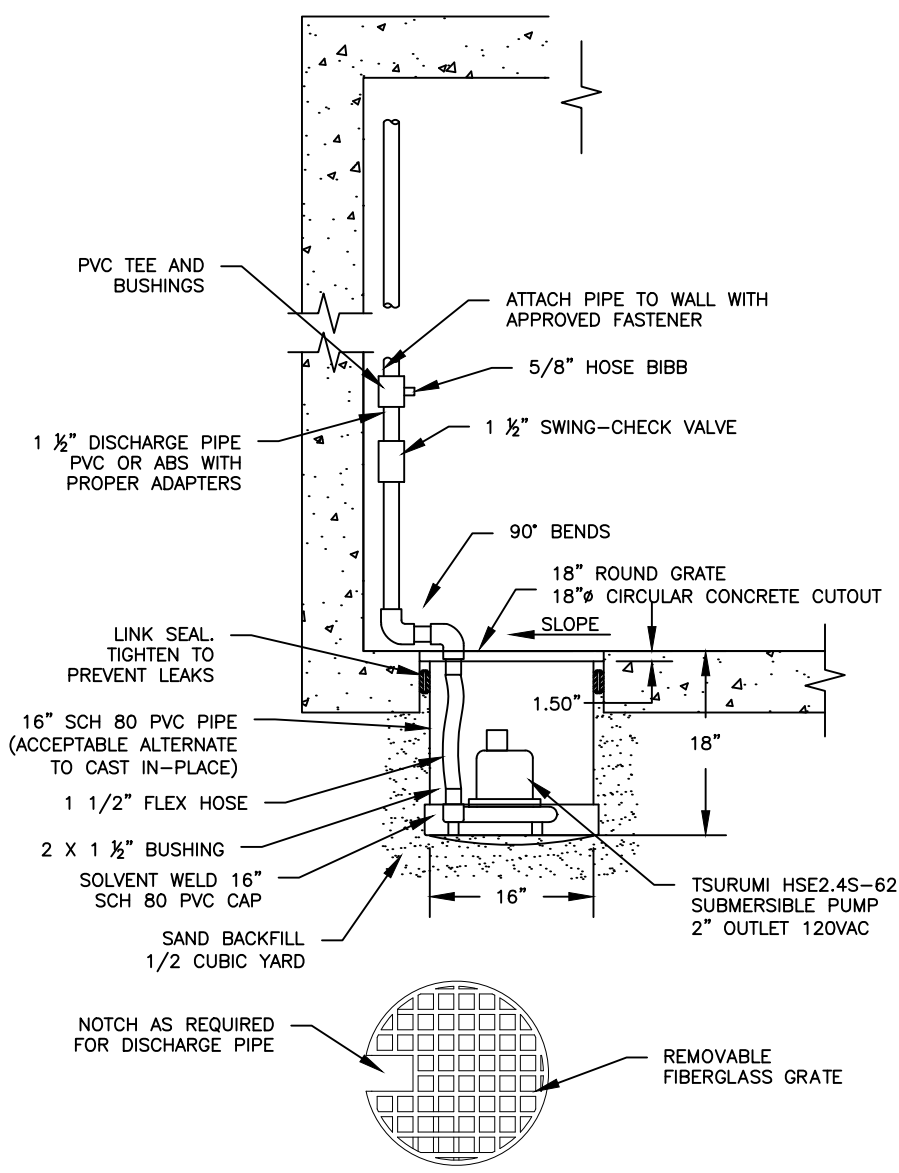
REV.	DESCRIPTION	BY	DATE

JORDAN VALLEY WATER CONSERVANCY DISTRICT
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088-0070
PHONE (801) 565-4300

LINE IS 1/8" AT FULL SIZE (IF NOT 1" - SCALE ACCORDINGLY)
ORIGINAL SIZE **B**
SCALE: NTS
DESIGN: CDT
DRAWING: TMP
PROJ. MGR: CDT
APPROVAL: KDR

500 WEST 4500 SOUTH VAULT IMPROVEMENTS
ELECTRIC DETAILS - 2

DATE: 1/18/24
PROJECT NUMBER: 4295
DRAWING NUMBER: E5
SHEET NUMBER: 7 OF 9

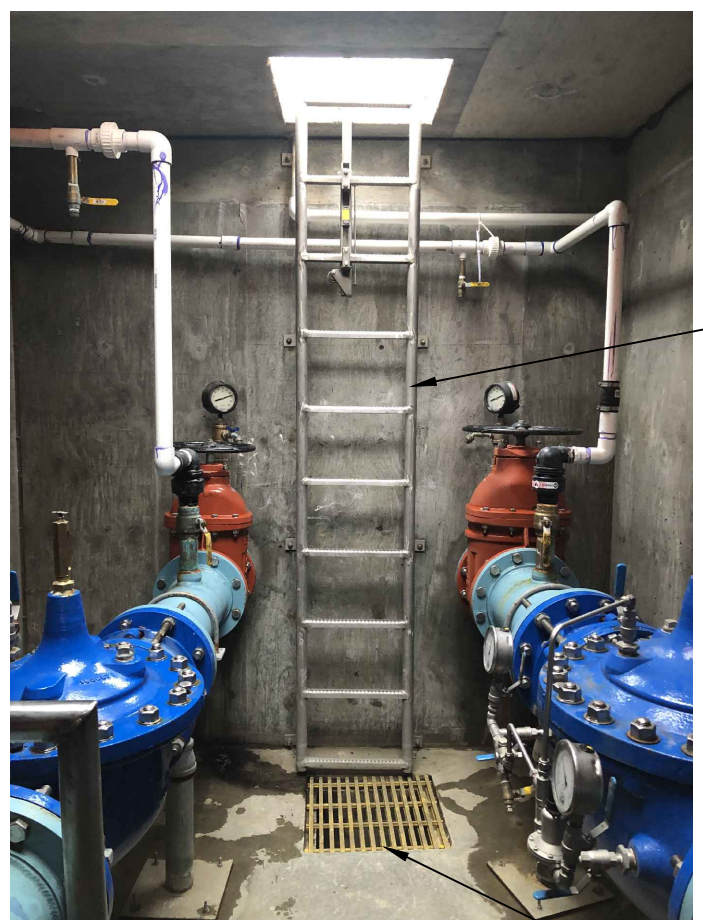


- KEY NOTES:**
- ① SHORTEN STAINLESS-STEEL LADDER BY 12". MODIFY ONE SET OF STAND OFF BRACKETS TO ACCOMMODATE THE NEW HEIGHT. REINSTALL LADDER WITH BOTTOM RUNG SET AT 12" AFF.
 - ② MODIFY SUMP PIT TO ACCOMMODATE SUMP PUMP DISCHARGE PIPING BY CUTTING GRATING AND NOTCHING CONCRETE.

NOTE: COORDINATE WITH ENGINEER PRIOR TO MODIFYING LADDER & SUMP PIT.

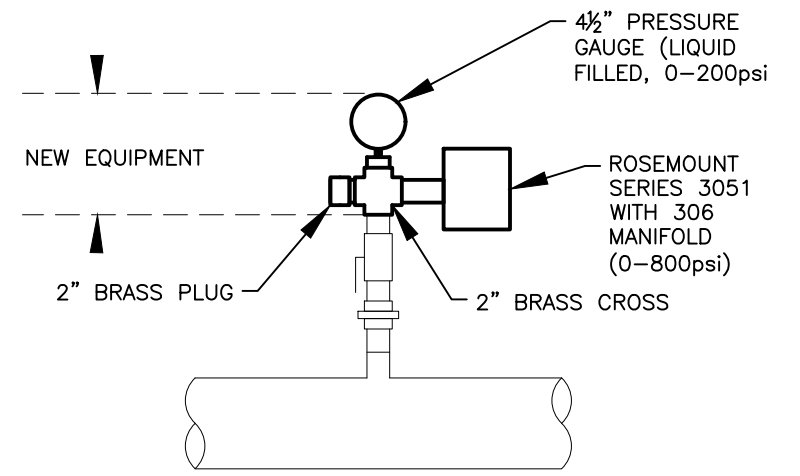
- NOTES**
- 1. INSURE FLOAT SWITCH MOVES FREELY IN SUMP BASIN WITHOUT TOUCHING BASIN WALLS.
 - 2. AFTER INSTALLATION, RUN WATER INTO BASIN AND ALLOW PUMP TO GO THROUGH SEVERAL ON-OFF CYCLES TO ASSURE SATISFACTORY OPERATION.
 - 3. INSTALL 2" NOTCH IN GRATE FOR SUMP DISCHARGE.
 - 4. PROVIDE ELECTRICAL RECEPTACLE FOR SUMP PUMP 48" AFF.

B SUMP AND SUMP PUMP DETAIL

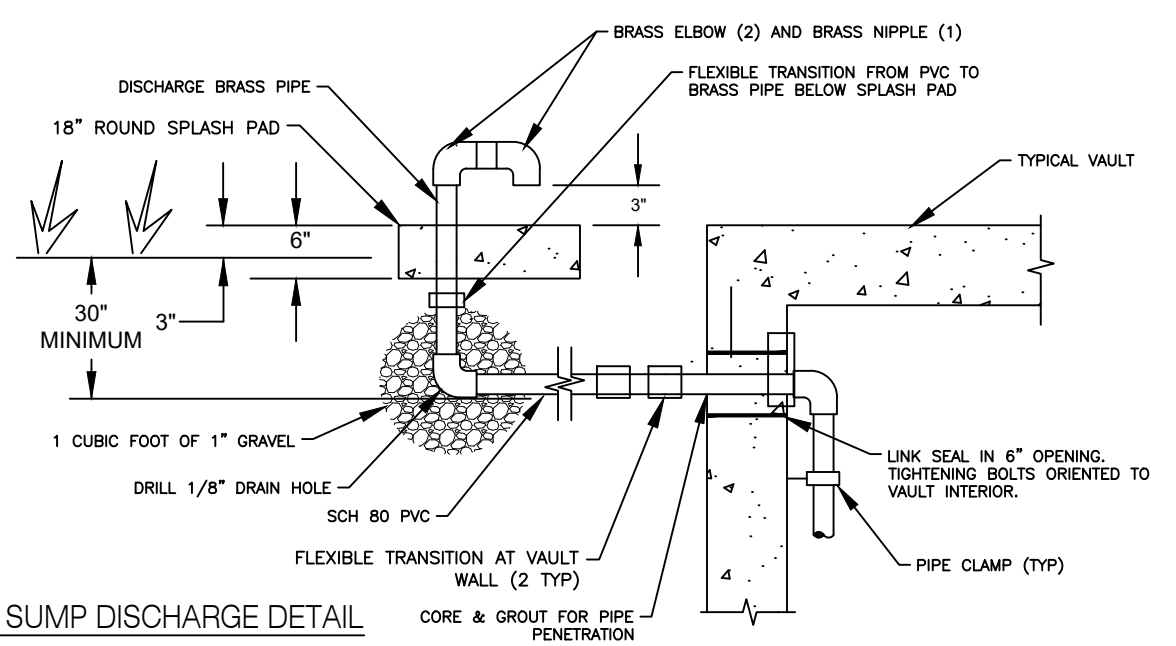


A LADDER / SUMP PIT MODIFICATIONS

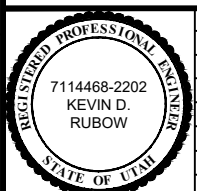
- NOTES:**
- 1. ALL BRASS FITTINGS TO BE NSF-61 & NSF-372 CERTIFIED.
 - 2. INSTALL BRASS REDUCING BUSHINGS AS NEEDED TO CONNECT THE MECHANICAL APPURTENANCES.



D PRESSURE TREE ASSEMBLY



C ABOVE GROUND SUMP DISCHARGE DETAIL



REV.	DESCRIPTION	BY	DATE

JORDAN VALLEY WATER CONSERVANCY DISTRICT

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WEST JORDAN, UTAH 84088-0070
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ORIGINAL SIZE **B**

SCALE: NTS

DESIGN: CDT
DRAWING: TMP
PROJ. MGR: CDT
APPROVAL: KDR

500 WEST 4500 SOUTH VAULT IMPROVEMENTS

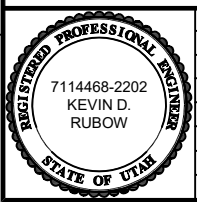
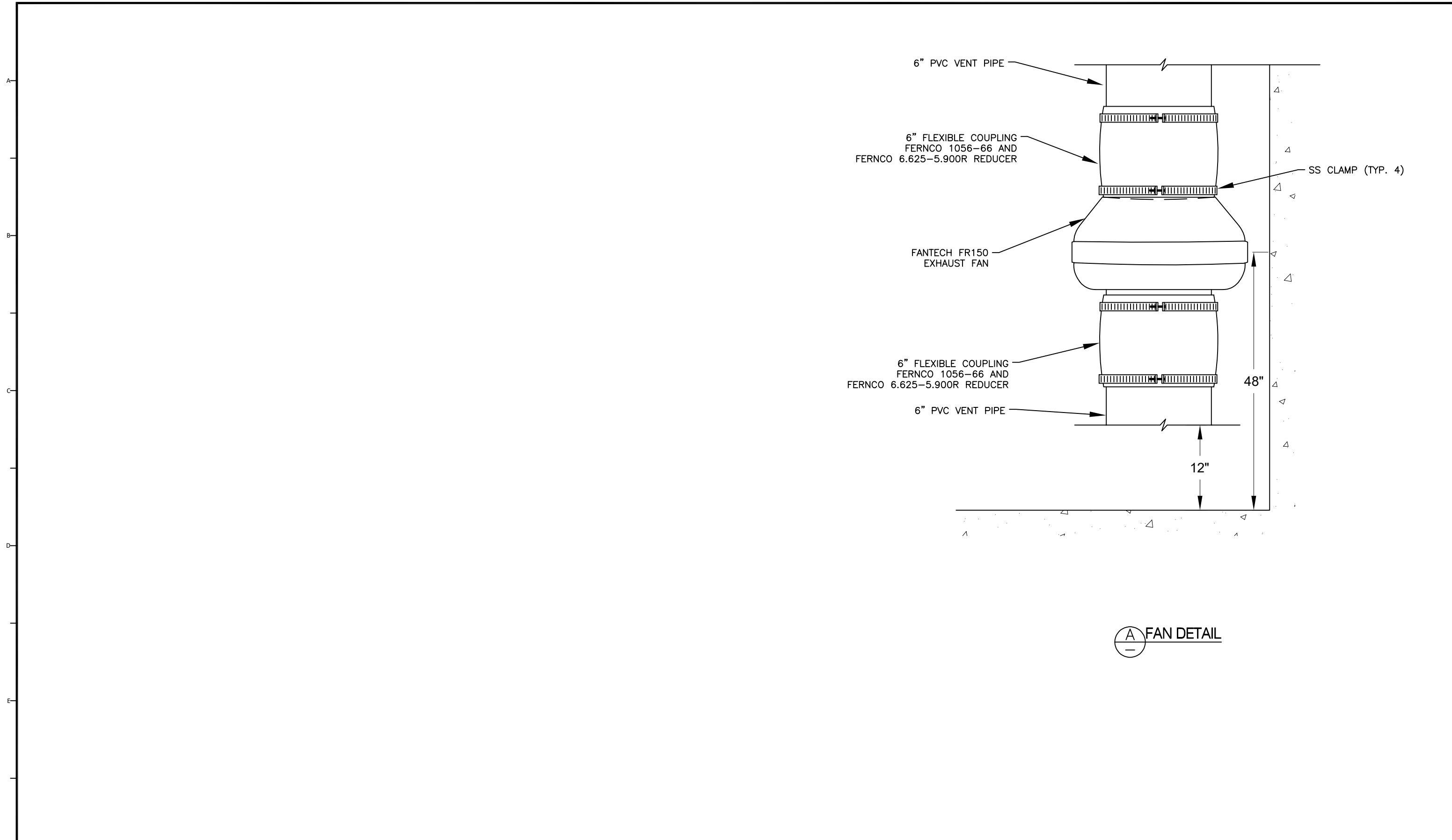
CIVIL DETAILS - 1

DATE: 1/18/24

PROJECT NUMBER: 4295

DRAWING NUMBER: C1

SHEET NUMBER: 8 OF 9



REVISIONS			
REV.	DESCRIPTION	BY	DATE

**JORDAN VALLEY WATER
CONSERVANCY DISTRICT**
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WEST JORDAN, UTAH 84088-0070
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PROJ. MGR: CDT	
APPROVAL: KDR	

500 WEST 4500 SOUTH VAULT IMPROVEMENTS	
CIVIL DETAILS - 2	

DATE 4/1/24
PROJECT NUMBER 4295
DRAWING NUMBER C2
SHEET NUMBER 9 OF 9