

SALT CREEK ESTATES WATER TREATMENT PLANT IMPROVEMENTS

9009 SOUTH DIANNE ST, NASHVILLE, INDIANA 47448

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REVISIONS		
REVISION NUMBER	REVISION DESCRIPTION	DATE

FLOOD NOTE:
THE ACCURACY OF ANY FLOOD HAZARD DATA SHOWN ON THESE PLANS IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP. THE WITHIN DESCRIBED TRACT OF LAND LIES WITHIN FLOOD HAZARD ZONE X AS SAID TRACT PLOTS BY SCALE ON COMMUNITY PANEL NUMBER 18105C0300D DATED 12/17/2010 FOR THE FLOOD INSURANCE RATE MAPS FOR MONROE COUNTY, INDIANA (UNINCORPORATED AREAS 180444).

PLANS PREPARED FOR:

SALT CREEK SERVICES, INC
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609 TREYBOURNE DRIVE
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CONTACT PERSON: CARL BAUER
EMAIL: bauers@mac.com

OPERATING AUTHORITIES:

SANITARY SEWER
SALT CREEK SERVICES, INC
C/O COMPASS POINTE
609 TREYBOURNE DRIVE
GREENWOOD, INDIANA 46142
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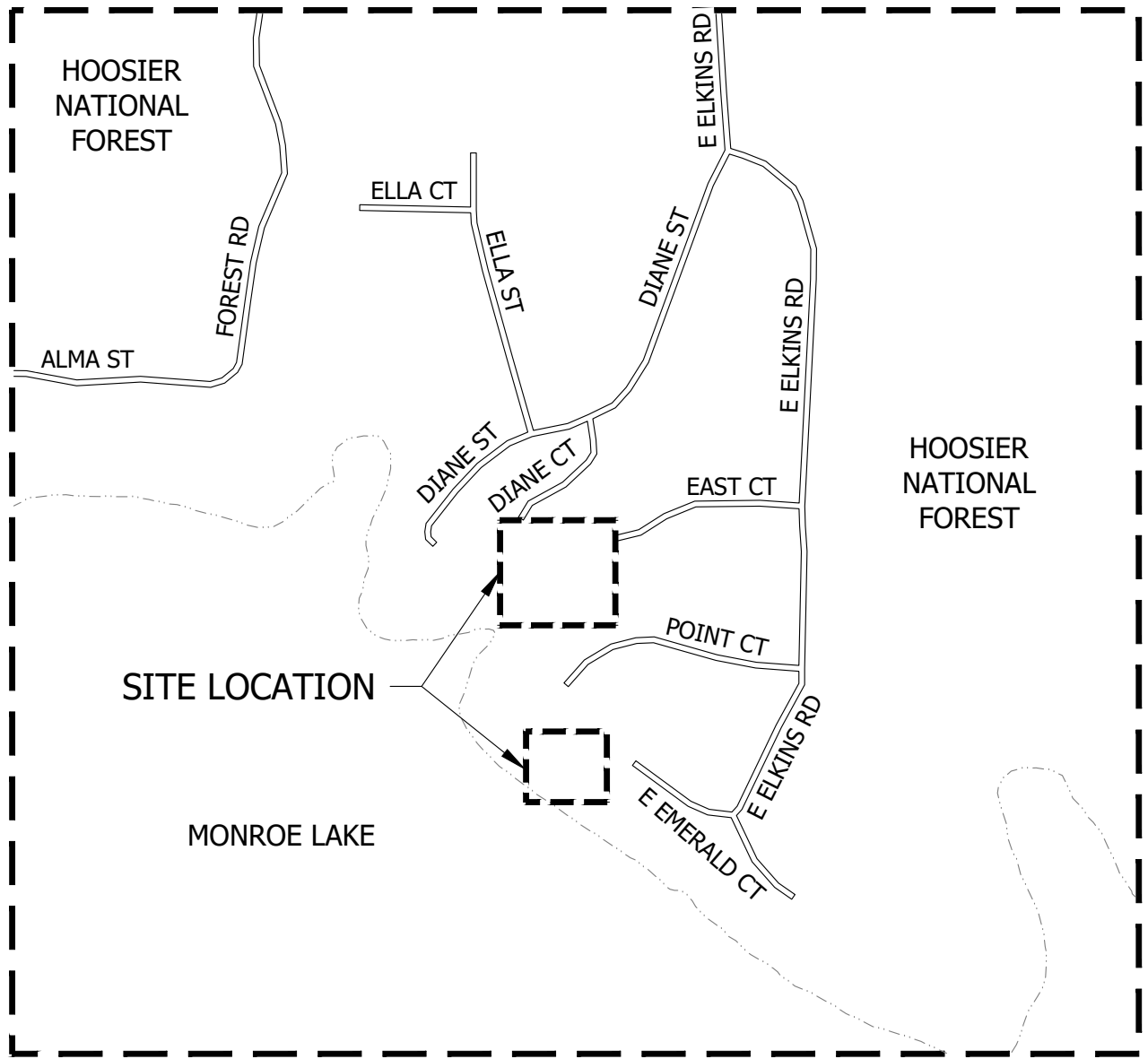
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CONTACT: N/A
EMAIL: N/A



SITE VICINITY MAP

NOT TO SCALE



SITE LOCATION MAP

NOT TO SCALE



CALL 2 WORKING DAYS BEFORE YOU DIG

1-800-382-5544

CALL TOLL FREE

PER INDIANA STATE LAW IC8-1-26.
IT IS AGAINST THE LAW TO EXCAVATE WITHOUT
NOTIFYING THE UNDERGROUND LOCATION SERVICE
TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

RQAW

DCCM

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PERMIT SET

#	Revision	Date

Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

Date: 02/03/2025



Ricardo Juan Paredes

TITLE SHEET

G001

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS FOR THIS PROJECT. ADDITIONS, DELETIONS, AND/OR REVISIONS SHALL NOT BE MADE WITHOUT PRIOR APPROVAL BY THE ENGINEER. KEEP AND MAINTAIN IN GOOD CONDITION A COMPLETE SET OF THE CONTRACT DOCUMENTS ON THE JOB SITE AT ALL TIMES.
2. ALL WORK SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL CODES, ORDINANCES, RULES, REGULATIONS, ORDERS, AND OTHER LEGAL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
3. IN THE EVENT THAT THE CONTRACTOR DISCOVERS A DISCREPANCY IN THE CONTRACT DOCUMENTS OR POTENTIAL UTILITY CONFLICT, NOTIFY THE ENGINEER IMMEDIATELY FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE CONSTRUCTION OF THE PORTION OF THE WORK IN QUESTION. FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. VERTICAL AND HORIZONTAL LOCATIONS TO BE CONFIRMED. ANY NECESSARY PIPE MODIFICATIONS SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL LOCAL NECESSARY PERMITS HAVE BEEN OBTAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
5. ALL RIGHT-OF-WAY AND PROPERTY LINES AND EASEMENTS ARE APPARENT AND WERE DETERMINED BASED UPON AVAILABLE INFORMATION. VERIFY ALL RIGHT-OF-WAY AND PROPERTY LINES. STAKE ALL RIGHT-OF-WAY, PROPERTY, AND EASEMENT LINES THROUGHOUT THE DURATION OF CONSTRUCTION.
6. CONSTRUCTION STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROPERTY LINES AND RIGHT-OF-WAY SHALL BE STAKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
7. PROTECT ALL EXISTING UTILITIES FROM DAMAGE, IN A MANNER APPROVED BY THE UTILITY AND THE ENGINEER. COORDINATE WITH UTILITY AS NECESSARY TO COMPLETE THE WORK. PROTECT BENCH MARKS, SURVEY CONTROL POINTS, AND EXISTING STRUCTURES FROM UNNECESSARY DAMAGE OR DISPLACEMENT.
8. PROVIDE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, OR LOCAL AGENCIES. THE AMOUNT, LOCATION, AND SIZE SHALL BE AS REQUIRED IN ACCORDANCE WITH MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
9. DURING CONSTRUCTION IT MAY BE NECESSARY TO TRIM OR REMOVE A TREE WITHIN THE RIGHT-OF-WAY OR AN EASEMENT. NOTIFY THE ENGINEER, OWNER, AND ANY AFFECTED PROPERTY OWNER PRIOR TO ANY REQUIRED TREE REMOVAL. TREE TRIMMING AS REQUIRED WITHIN THE RIGHT-OF-WAY OR EASEMENT SHALL BE MINIMIZED. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR TREE REMOVAL OR TRIMMING.
10. ALL DISTURBED AREAS, INCLUDING, BUT NOT LIMITED TO, STREETS, DRIVES, WALKS, LAWNS, FENCES, RETAINING WALLS, ETC. SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, GRAVEL, AND ANY OTHER MATERIALS TRACKED ONTO ANY PRIVATE DRIVES, ACCESS DRIVES TO THE PLANT OR PARKING AREAS AT OR AROUND THE WATER TREATMENT PLANT. THIS MATERIAL REMOVAL OR SWEEPING SHALL BE DONE AS FREQUENTLY AS NECESSARY TO MAINTAIN AREAS REASONABLY CLEAN. AIRBORNE DUST SHALL BE KEPT TO A MINIMUM BY USING WATER OR OTHER METHODS AS NECESSARY.
12. PROVIDE TEMPORARY GRASS SEED WITHIN 7-DAYS OF ALL EARTH DISTURBING ACTIVITIES.
13. PROVIDE AND MAINTAIN ALL NECESSARY STRAW BALES, FILTER FENCE, INLET PROTECTION ETC. IN EXISTING AND PROPOSED DITCHES, CULVERTS, STORM PIPES, AND DRAINAGE STRUCTURES TO PREVENT DAMAGE. BIO-DEGRADABLE EROSION CONTROL DEVICES SHOULD BE PLACED IN ALL DISTURBED DRAINAGE DITCHES WITH DEPTHS GREATER THAN 12".
14. REGRADE AREAS AS NECESSARY WITHIN THE CONSTRUCTION LIMITS TO ALLOW PROPER DRAINAGE TO MAINTAIN POSITIVE DRAINAGE PATTERNS.
15. MAINTAIN 10'-0" HORIZONTAL AND 1'-6" VERTICAL SEPARATION BETWEEN SEWERS AND WATER MAINS, UNLESS SPECIFICALLY NOTED IN THE PLANS.
16. PROVIDE FILL AROUND PROPOSED AND EXISTING PIPING AT ALL OPEN-CUT UTILITY CROSSINGS TO ADEQUATELY SUPPORT AND PROTECT EACH CONDUIT.
17. PRESERVE EXISTING RIGHT-OF-WAY MARKERS. IF RIGHT-OF-WAY MARKERS ARE DISTURBED, RESET MARKERS AT NO ADDITIONAL COST TO THE OWNER.
18. CALL LOCAL UTILITY LINE INFORMATION SERVICE NOT LESS THAN THREE WORKING DAYS BEFORE PERFORMING WORK. REQUEST UNDERGROUND UTILITIES TO BE LOCATED AND MARKED WITHIN AND SURROUNDING CONSTRUCTION AREAS. IDENTIFY REQUIRED LINES, LEVELS, CONTOURS, AND DATUM LOCATIONS.
19. TRAFFIC CONTROL MEASURES WILL INCLUDE TEMPORARY SIGNAGE AND COMMUNICATION WITH THE OWNER WHEN CLOSING OF LANES OR ROAD WILL OCCUR. UNLESS PREVIOUSLY COORDINATED AND AGREED BY THE OWNER, CONTRACTOR TO MAINTAIN LOCAL TRAFFIC ACCESS OPEN AT ALL TIMES.
20. DO NOT LEAVE MORE THAN 50 FEET OF TRENCH OPEN AT END OF WORKING DAY. PROTECT OPEN TRENCH TO PREVENT DANGER TO THE PUBLIC.
21. STOCKPILE EXCAVATED AND FILL MATERIALS ON SITE AT LOCATIONS APPROVED BY OWNER. STOCKPILE IN SUFFICIENT QUANTITIES TO MEET PROJECT SCHEDULE AND REQUIREMENTS. SEPARATE DIFFERENT AGGREGATE MATERIALS WITH DIVIDERS OR STOCKPILE QUANTITIES TO MEET PROJECT SCHEDULE AND REQUIREMENTS. SEPARATE DIFFERENT AGGREGATE MATERIALS WITH DIVIDERS OR STOCKPILE INDIVIDUALLY TO PREVENT MIXING. DIRECT SURFACE WATER AWAY FROM STOCKPILE SITE TO PREVENT EROSION OR DETERIORATION OF MATERIALS. STOCKPILE CLEANUP: REMOVE STOCKPILE, AND LEAVE AREA IN CLEAN AND NEAT CONDITION. GRADE SITE SURFACE TO PREVENT FREE STANDING SURFACE WATER.
22. FINAL CONTOURS: PERFORM FINISH GRADING AND BLEND INTO CONFIRMATION WITH REMAINING NATURAL GROUND SURFACES. LEAVE ALL FINISHED GRADING SURFACES SMOOTH AND FIRM TO DRAIN. FINISH GRADES TO ELEVATIONS WITHIN PLUS OR MINUS 0.10 FOOT OF EXISTING OR CONTOUR SHOWN.
23. ALL ELEVATIONS AT CONSTRUCTION LIMITS SHALL MATCH EXISTING GRADE. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT STACKED GRADES MATCH DESIGN ELEVATIONS AND POSITIVE DRAINAGE TO STORMWATER MANAGEMENT SYSTEM IS ACHIEVED. CONTACT ENGINEER IF DESIGN ELEVATIONS DO NOT PROVIDE POSITIVE DRAINAGE.

CIVIL / PROCESS LINETYPES

LINETYPE	CIVIL TYPE
	EXISTING EASEMENT
	PROPERTY LINE
	EXISTING TOP OF BANK
	EXISTING TOE OF SLOPE
	EXISTING EDGE OF GRAVEL
	EXISTING EDGE OF CONCRETE
	EXISTING EDGE OF TREE LINE
	EXISTING CONTOURS
	EXISTING UNDERGROUND ELECTRICAL
	EXISTING FIBER OPTIC
	EXISTING OVERHEAD ELECTRICAL
	EXISTING DRAINAGE DITCH
	EXISTING SANITARY SEWER
	EXISTING WATER LINE
	PROPOSED CONSTRUCTION LIMITS
	PROPOSED SANITARY SEWER
	PROPOSED CHAIN LINK FENCE
	PROPOSED CONTOURS
	EXISTING PROCESS FLOW
	PROPOSED RAW WATER
	PROPOSED FILTERED WATER
	PROPOSED BACKWASH WATER
	UNDERGROUND PROCESS PIPE
	ABOVE GROUND PROCESS PIPE

SYMBOLS

	SURVEY MONUMENT		EXISTING WATER METER
	EXISTING SPOT ELEVATION		EXISTING WATER STRUCTURE
	EXISTING ELECTRICAL POWER POLE		EXISTING SANITARY STRUCTURE
	EXISTING POWER POLE GUY WIRE		PROPOSED WATER CORP STOP
	EXISTING ELECTRICAL METER		PROPOSED CHECK VALVE
	EXISTING FIBER PEDESTAL		PROPOSED GATE VALVE
	EXISTING ELECTRICAL RISER		

MONROE CO. CDO SECTION 811-1 (F) PERFORMANCE STANDARDS FOR PERMITTED USES

- F. PERFORMANCE STANDARDS FOR PERMITTED USES. ALL PERMITTED USES ESTABLISHED OR PLACED INTO OPERATION AFTER THE EFFECTIVE DATE OF THIS ORDINANCE SHALL COMPLY WITH THE FOLLOWING PERFORMANCE STANDARDS IN THE INTEREST OF PROTECTING PUBLIC HEALTH, SAFETY, AND WELFARE, AND LESSENING INJURY TO PROPERTY. NO USE IN EXISTENCE ON THE EFFECTIVE DATE OF THIS ORDINANCE SHALL BE SO ALTERED AS TO CONFLICT (OR INCREASE AN EXISTING CONFLICT) WITH THESE STANDARDS. THE PLAN COMMISSION MAY ATTACH ADDITIONAL CONDITIONS TO ITS APPROVAL OF A USE TO PREVENT INJURIOUS OR NOXIOUS DUST, FUMES, GASES, NOISES, ODORS, REFUSE MATTER, SMOKE, VIBRATIONS, WATER-CARRIED WASTE, OR OTHER OBJECTIONAL CONDITIONS IN ORDER TO PRESERVE THE CHARACTER OF THE SURROUNDING NEIGHBORHOOD.
- 1) FIRE PROTECTION. FIREFIGHTING EQUIPMENT AND PREVENTION MEASURES ACCEPTABLE TO THE LOCAL FIRE DEPARTMENT SHALL BE READILY AVAILABLE AND APPARENT WHEN ANY ACTIVITY INVOLVING THE HANDLING OR STORAGE OF FLAMMABLE OR EXPLOSIVE MATERIALS IS CONDUCTED.
- 2) ELECTRICAL DISTURBANCE. NO USE SHALL CAUSE ELECTRICAL DISTURBANCE ADVERSELY AFFECTING RADIO, TELEVISION, TELECOMMUNICATION, OR OTHER EQUIPMENT IN THE VICINITY OF THE USE.
- 3) NOISE. NO USE SHALL PRODUCE NOISE IN SUCH A MANNER AS TO BE OBJECTIONAL BECAUSE OF VOLUME, FREQUENCY, INTERMITTENCE, HEAT, SHRILLNESS, OR VIBRATION. SUCH NOISE SHALL BE MUFFLED OR OTHERWISE CONTROLLED SO AS NOT BE DETRIMENTAL, PROVIDED HOWEVER, THAT PUBLIC SAFETY SIRENS AND RELATED APPARATUS USED SOLELY FOR PUBLIC PURPOSES SHALL BE EXEMPT FROM THIS STANDARD.
- 4) VIBRATION. NO USE SHALL CAUSE VIBRATIONS OR CONCUSSIONS DETECTABLE BEYOND LOT LINES WITHOUT THE AID OF INSTRUMENTS.
- 5) AIR POLLUTION. NO USE SHALL DISCHARGE ACROSS LOT LINES FLY-ASH, DUST, SMOKE, VAPORS, NOXIOUS, TOXIC, OR CORROSIVE MATTER, OR OTHER AIR POLLUTANTS IN SUCH CONCENTRATION AS TO BE DETRIMENTAL TO HEALTH, ANIMALS, VEGETATION, OR PROPERTY AND/OR IN CONFLICT WITH RELEVANT AIR QUALITY STANDARDS ESTABLISHED BY STATE AND/OR FEDERAL AGENCIES. DUST AND OTHER TYPES OF AIR POLLUTION BORNE BY THE WIND FROM SUCH SOURCES AS STORAGE AREAS AND ROADS SHALL BE MINIMIZED BY LANDSCAPING, PAVING, OR OTHER ACCEPTABLE MEANS .
- 6) HEAT AND GLARE. NO USE SHALL PRODUCE HEAT OR GLARE IN SUCH MANNER AS TO CREATE A NUISANCE PERCEPTIBLE FROM ANY POINT BEYOND THE LOT LINES OF THE PROPERTY ON WHICH THE USE IS CONDUCTED. IN NONRESIDENTIAL AREAS, ANY LIGHTING USED TO ILLUMINATE AN OFF-STREET PARKING AREA, LOADING AREA, DRIVEWAY, OR SERVICE DRIVE SHALL BE SHIELDED WITH APPROPRIATE LIGHT FIXTURES DIRECTING THE LIGHT DOWN AND AWAY FROM ADJACENT PROPERTIES IN ORDER THAT THE ILLUMINATION AT ANY PROPERTY LINE SHALL NOT EXCEED ONE FOOT CANDLE. ALL EXTERIOR LIGHTING SHALL BE HOODED AND SHIELDED TO DIRECT LIGHT DOWNWARD. IN RESIDENTIAL AREAS, EXTERIOR LIGHTING AT ANY PROPERTY LINE SHALL NOT EXCEED ONE FOOT CANDLE, UNLESS SPECIFICALLY REGULATED UNDER CHAPTER 815. ALL EXTERIOR LIGHTING SHALL COMPLY WITH THE CHAPTER 815.
- 7) WATER POLLUTION. NO USE SHALL PRODUCE EROSION OR OTHER POLLUTANTS IN SUCH QUANTITY AS TO BE DETRIMENTAL TO ADJACENT PROPERTIES AND CONFLICT WITH RELEVANT WATER POLLUTION STANDARDS ESTABLISHED BY STATE AND/OR FEDERAL AGENCIES. SEE, FOR EXAMPLE, CHAPTER 761 OF THE MONROE COUNTY CODE.
- 8) WASTE MATTER. NO USE SHALL ACCUMULATE WITHIN THE LOT, OR DISCHARGE BEYOND THE BOUNDARY LINES OF THE LOT ON WHICH THE USE IS LOCATED, ANY WASTE MATTER, WHETHER LIQUID OR SOLID, IN VIOLATION OF APPLICABLE PUBLIC HEALTH, SAFETY AND WELFARE STANDARDS AND REGULATIONS. NO ORGANIC OR INORGANIC WASTE MATERIALS SHALL BE DISPOSED OF OR PERMANENTLY STORED OR PLACED ON THE SITE WITH THE EXCEPTION OF COMPOST BINS OR PILES AND APPROVED SEPTIC SYSTEMS UNLESS SPECIFICALLY APPROVED UNDER A SITE PLAN.

ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	FCO	FLOOR CLEANOUT
ATR	ALL THREAD ROD	GV	GATE VALVE
AS	AQUASTAT	GLV	GLOBE VALVE
AAV	AIR ADMITTANCE VALVE	HSP	HIGH SERVICE PUMP
AC	AIR COMPRESSOR	HB	HOSE BIBB
ARV	AIR RELEASE VALVE	HWRP	HOT WATER RETURN PUMP
AP	ACCESS PANEL	MV	MANUAL AIR VENT
AD	AREA DRAIN	M	MOTOR - OPERATED VALVE
AV	ANGLE VALVE	ORD	OVERFLOW ROOF DRAIN
AUV	AUTOMATIC AIR VALVE	PTU	PACKAGED TREATMENT UNIT
BV	BALL VALVE	PV	PLUG VALVE
BFV	BUTTERFLY VALVE	PA	PIPE ANCHOR
BFPA	BACKFLOW PREVENTER ASSEMBLY	PG	PIPE GUIDE
BS	BASKET STRAINER	PS	PIPE SLEEVE
CTLV	CONTROL VALVE, 2-WAY	PRV	PRESSURE RELIEF VALVE
CV	CHECK VALVE	PIV	POST INDICATOR VALVE
CR	CONCENTRIC REDUCER/ INCREASER	PRG	PRESSURE GAUGE WITH GAUGE COOK
DI	DUCTILE IRON	PRS	PRESSURE SWITCH
DI MJ	DUCTILE IRON MECHANICAL JOINT	ROW	RIGHT-OF-WAY
DBL	DOUBLE	RD	ROOF DRAIN
ECO	EXTERIOR CLEANOUT	RJ	RESTRAINED JOINT
EL	EXPANSION LOOP	SV	SOLENOID VALVE
EC	ECCENTRIC REDUCER/ INCREASER	TPV	TEMPERATURE PRESSURE RELIEF VALVE
EJ	EXPANSION JOINT	T	THERMOMETER
FFE	FINISHED FLOOR ELEVATION	U	UNION
F	FLANGE	WCO	WALL CLEANOUT
FS	FLOW SWITCH	WHA	WATER HAMMER ARRESTOR
FM	FLOW METER	WS	WYE STRANNER
FC	FLEXIBLE CONNECTOR	WH	WALL HYDRANT
FD	FLOOR DRAIN	YB	YARD BOX



PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

Date: 02/03/2025

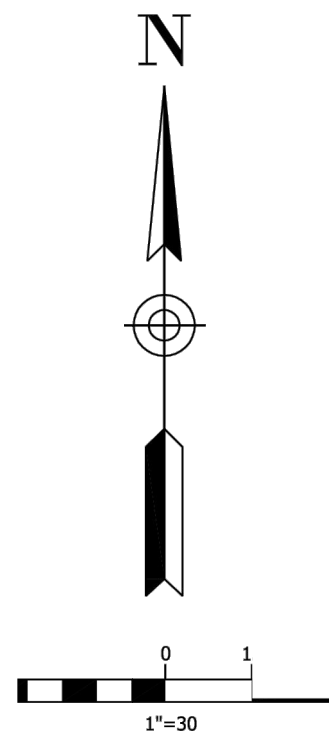
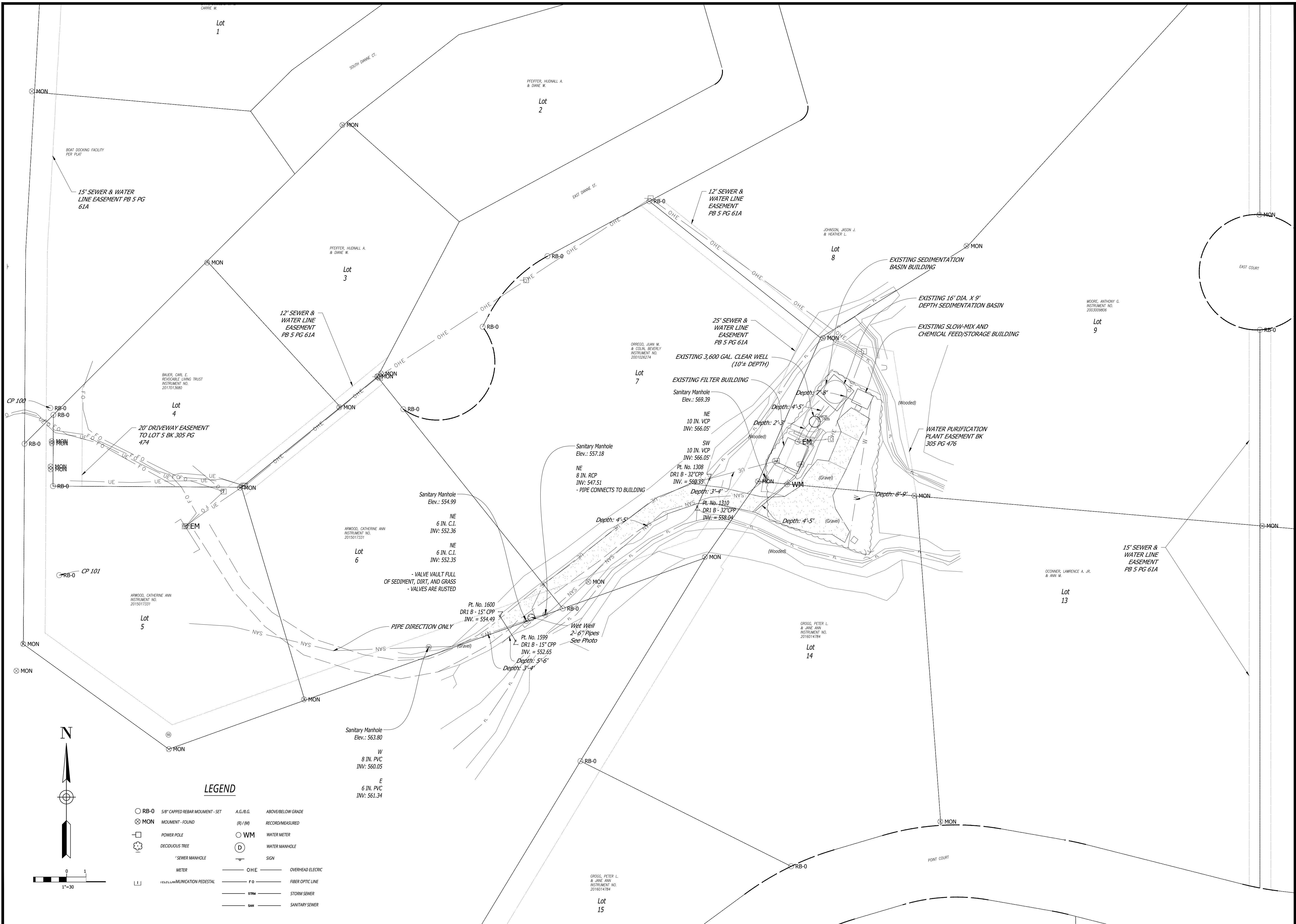


Ricardo Juan Paredes

GENERAL NOTES AND SYMBOLS

G100

PRINT DATE: 5/16/25 6:31 AM EDITED BY: RHUNT DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\ACAD\PLAN SHEETS\234001881 EXISTING PLAN.DWG PLOT SCALE: 1:1 EDIT DATE: 5/16/25 6:31 AM



LEGEND			
○ RB-0	5/8" CAPPED REBAR MOVEMENT - SET	A.G./B.G.	ABOVE/BELOW GRADE
⊗ MON	MOVEMENT - FOUND	(R) / (M)	RECORD/MEASURED
□	POWER POLE	○ WM	WATER METER
⊗	DECIDUOUS TREE	⊙	WATER MANHOLE
⊙	SEWER MANHOLE	—	SIGN
—	METER	— OHE	OVERHEAD ELECTRIC
[]	TELECOMMUNICATION PEDESTAL	— FO	FIBER OPTIC LINE
		— STM	STORM SEWER
		— SAN	SANITARY SEWER

RQAW

DCCM

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WATER TREATMENT PLANT
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Date: 02/03/2025

RICHARD JUAN PAREDES
REGISTERED
No. 11900824
STATE OF INDIANA
PROFESSIONAL ENGINEER

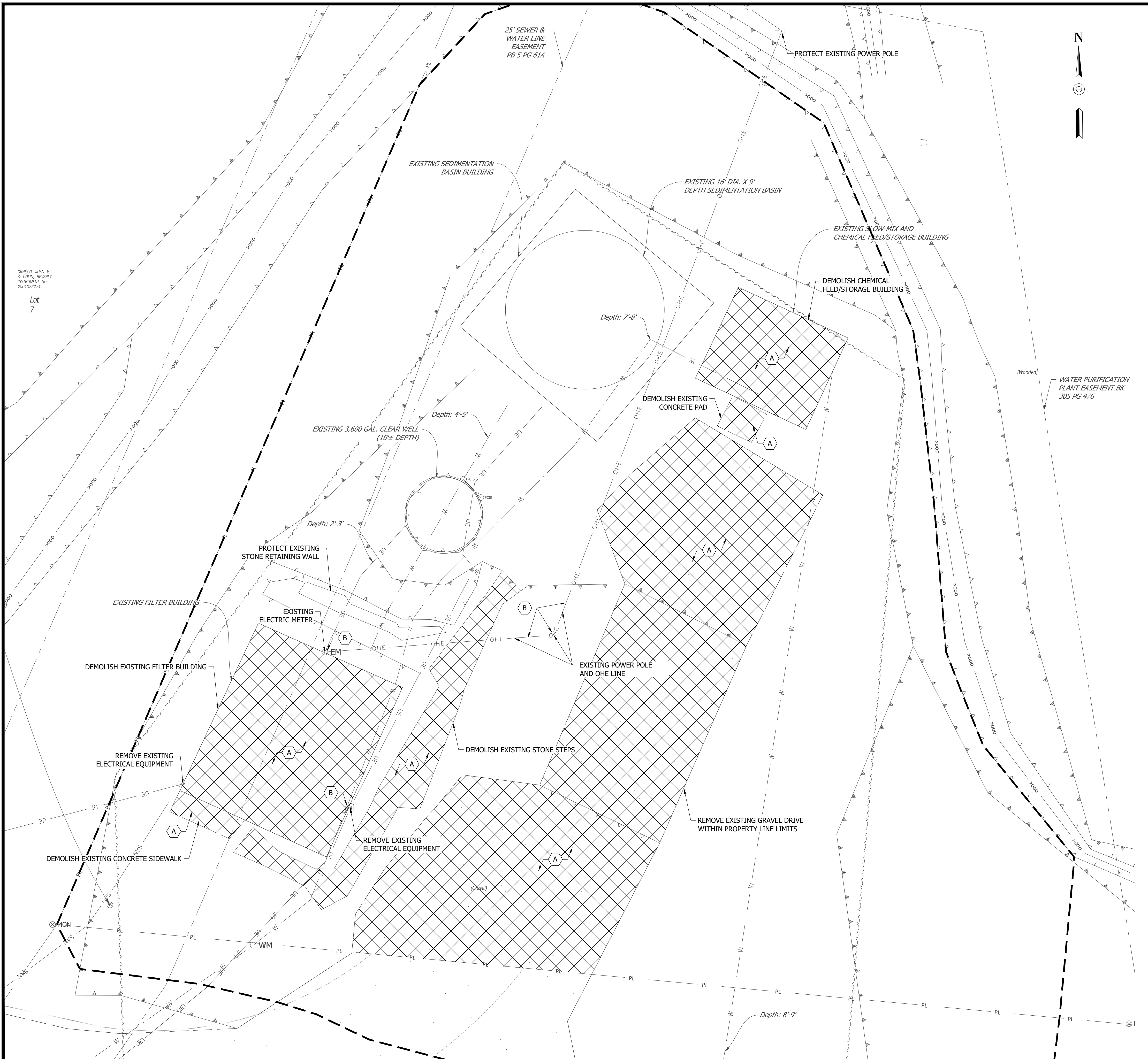
Richard Juan Paredez

NOT TO SCALE

EXISTING SITE PLAN

C100

PRINT DATE: 5/16/25 10:39 AM EDITED BY: RHUNT DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\5 ACAD\PLAN SHEETS\234001881 DEMOLITION PLAN.DWG PLOT SCALE: 1:1



DEMOLITION PLAN LEGEND	
	EXISTING EASEMENT
	EXISTING PROPERTY LINE
	EXISTING TOP OF BANK
	EXISTING TOE OF SLOPE
	EXISTING EDGE OF GRAVEL
	EXISTING EDGE OF CONCRETE
	EXISTING EDGE OF TREE LINE
	EXISTING UNDERGROUND ELECTRICAL
	EXISTING FIBER OPTIC
	EXISTING OVERHEAD ELECTRICAL
	EXISTING DRAINAGE DITCH
	PROPOSED CONSTRUCTION LIMITS
MON	SURVEY MONUMENT
XXX.X	EXISTING SPOT ELEVATION
	EXISTING ELECTRICAL POWER POLE
	EXISTING POWER POLE GUY WIRE
	EXISTING ELECTRICAL METER
	EXISTING FIBER PEDESTAL
	EXISTING WATER METER
	EXISTING WATER STRUCTURE
	EXISTING SANITARY STRUCTURE

KEY NOTES	
	DEMOLITION LIMITS
	EXISTING ELECTRICAL INFRASTRUCTURE (SEE SHEET E101 FOR DETAILS)

- | DEMOLITION PLAN NOTES | |
|-----------------------|---|
| 1. | THE CONTRACTOR SHALL REMOVE ALL MUD, DIRT AND ANY OTHER MATERIALS TRACKED ONTO ANY PUBLIC OR PRIVATE STREETS OR SIDEWALKS. THE CONTRACTOR SHALL UTILIZE MEASURES TO CONTROL DUST AT ALL TIMES. |
| 2. | THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION. |
| 3. | ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING DEMOLITION. |
| 4. | CONDUCT DEMOLITION AND CONSTRUCTION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH STREETS, WALKS, AND OTHER ADJACENT OCCUPIED STRUCTURES. |
| 5. | ALL UTILITIES TO BE REMOVED SHALL BE DISCONNECTED AND CAPPED AT THE NEAREST CONNECTION POINT, UNLESS SPECIFIED OTHERWISE. |
| 6. | UTILITIES ARE SHOWN TO BE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY(S) COMPANY FOR THE REMOVAL, RELOCATION, AND/OR DEMOLITION OF ALL EXISTING UTILITIES. |
| 7. | ALL DEMOLISHED MATERIALS SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE UNLESS NOTED OTHERWISE. |
| 8. | CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER DRAINAGE IN DEMOLITION AREAS. |
| 9. | THE USE OF ANY TYPE OF EXPLOSIVES WILL NOT BE PERMITTED. |
| 10. | PROMPTLY REPAIR ANY DAMAGE TO ADJACENT FACILITIES CAUSED BY DEMOLITION AND CONSTRUCTION OPERATIONS AT NO EXTRA COST TO THE OWNER. |
| 11. | DEMOLITION ITEMS INCLUDE BUT ARE NOT LIMITED TO DEMOLITION ITEMS INDICATED ON THIS PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR RELOCATE ITEMS WHICH INTERFERE WITH NEW CONSTRUCTION. |
| 12. | THE OWNER/DEVELOPER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING QUALITY CONTROL AT ALL TIMES DURING THE CONSTRUCTION PROCESS. |
| 13. | CONTACT OWNER IMMEDIATELY IF CONTAMINATED SOILS ARE ENCOUNTERED DURING CONSTRUCTION. CONTAMINATED SOILS MUST BE HAULED OFF-SITE AND PROPERLY DISPOSED. |
| 14. | DEMOLITION OF THE EXISTING FILTER BUILDING, AND SLOW-MIX AND CHEMICAL FEED/STORAGE BUILDINGS TO BE PERFORMED BY CONTRACTOR AFTER PROPOSED WATER TREATMENT PLANT IS OPERATIONAL. EXISTING WATER TREATMENT SYSTEMS TO REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR TO PROTECT EXISTING FACILITIES AND AVOID DIRECT CONFLICTS WITH WATER TREATMENT OPERATIONS. |
| 15. | CONTRACTOR RESPONSIBLE TO COORDINATE WITH OWNER FOR COMMENCEMENT OF DEMOLITION EFFORTS UPON COMPLETION OF WORK AND LIMITING DISRUPTION OF WATER TREATMENT PRODUCTION FROM PROPOSED WATER TREATMENT PLANT. |
| 16. | ALL DEMOLITION WORK IS TO BE COMPLETE INCLUDING REMOVAL OF DEMOLISHED MATERIALS AND EQUIPMENT. |
| 17. | CONTRACTOR TO PROVIDE NECESSARY TEMPORARY PROTECTION MEASURES FOR THE EXISTING FILTER AND CHEMICAL FEED BUILDINGS FOR ANY EXPOSED PARTS OR PARTIALLY DEMOLISHED SECTIONS DURING CONSTRUCTION. |

RQAW

PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

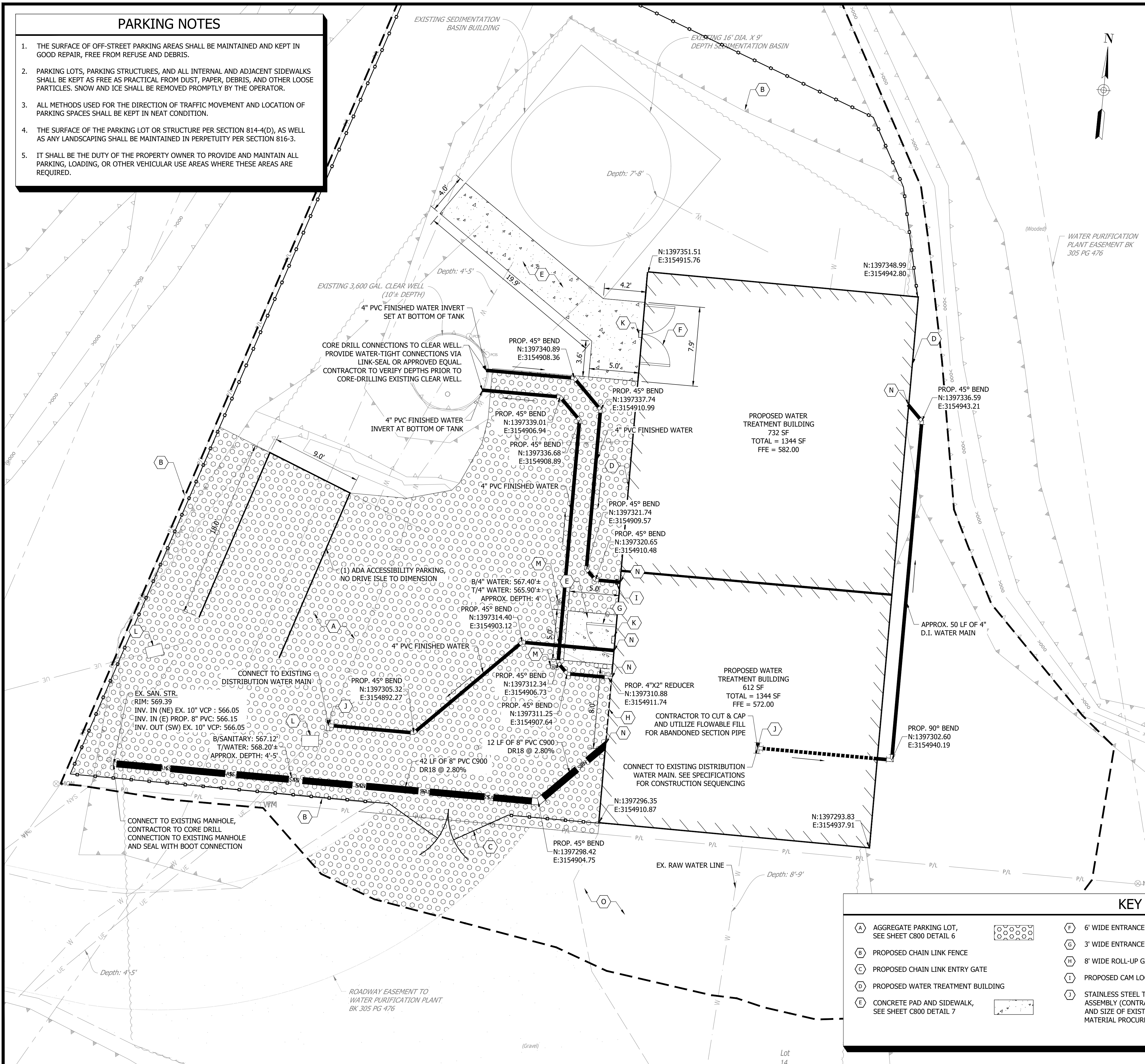
Date: 02/03/2025

GRAPHIC SCALE

DEMOLITION SITE PLAN

C200

- PARKING NOTES**
1. THE SURFACE OF OFF-STREET PARKING AREAS SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR, FREE FROM REFUSE AND DEBRIS.
 2. PARKING LOTS, PARKING STRUCTURES, AND ALL INTERNAL AND ADJACENT SIDEWALKS SHALL BE KEPT AS FREE AS PRACTICAL FROM DUST, PAPER, DEBRIS, AND OTHER LOOSE PARTICLES. SNOW AND ICE SHALL BE REMOVED PROMPTLY BY THE OPERATOR.
 3. ALL METHODS USED FOR THE DIRECTION OF TRAFFIC MOVEMENT AND LOCATION OF PARKING SPACES SHALL BE KEPT IN NEAT CONDITION.
 4. THE SURFACE OF THE PARKING LOT OR STRUCTURE PER SECTION 814-4(D), AS WELL AS ANY LANDSCAPING SHALL BE MAINTAINED IN PERPETUITY PER SECTION 816-3.
 5. IT SHALL BE THE DUTY OF THE PROPERTY OWNER TO PROVIDE AND MAINTAIN ALL PARKING, LOADING, OR OTHER VEHICULAR USE AREAS WHERE THESE AREAS ARE REQUIRED.



SITE PLAN LEGEND	
	EXISTING EASEMENT
	P/L
	EXISTING TOP OF BANK
	EXISTING TOE OF SLOPE
	EXISTING EDGE OF GRAVEL
	EXISTING EDGE OF CONCRETE
	UE
	F O
	O H E
	>000
	PROPOSED CONSTRUCTION LIMITS
	PROPOSED WATER MAIN / PROCESS PIPING
	PROPOSED PROCESS PIPING UNDER BUILDING
	SS
	PROPOSED SANITARY SEWER
	PROPOSED CHAIN LINK FENCE LINE
	MON SURVEY MONUMENT
	WM EXISTING WATER METER
	EXISTING WATER STRUCTURE
	EXISTING SANITARY STRUCTURE
	PROPOSED WATER CORP STOP
	PROPOSED CHECK VALVE
	PROPOSED GATE VALVE

- SITE PLAN NOTES**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE MUNICIPAL, COUNTY AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
 2. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.
 3. IT SHALL BE BE THE CONTRACTORS RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH RESPECTIVE UTILITY COMPANIES.
 4. ALL CONSTRUCTION ACTIVITY ON THIS SITE IS TO BE PERFORMED IN COMPLIANCE WITH MOST CURRENT APPLICABLE OSHA STANDARDS FOR WORKER SAFETY.
 5. ALL RADII AND STREET DIMENSIONS SHALL BE MEASURED TO FACE OF CURB OR FACE OF INTEGRAL CURB AND WALK. ALL DIMENSIONS TO THE BUILDING ARE TO THE OUTSIDE OF BUILDING FOUNDATION WALL.
 6. EXISTING PAVEMENT TO BE SAW CUT IN ALL AREAS WHERE INDICATED NEW PAVEMENT TO JOIN EXISTING PAVEMENT.
 7. THE EDGE OF THE EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING ASPHALT.
 8. ALL CONSTRUCTION JOINTS SHALL BE SAWN, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED WITH THE APPROPRIATE SEALANT ACCORDING TO MANUFACTURER'S DIRECTIONS.
 9. ALL PARKING STRIPES AND AREA PARKING TO BE 4" WHITE PAINT. ADA PARKING AREAS AND ACCESS AISLES TO BE 4" BLUE PAINT.
 10. BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.
 11. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNING ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
 12. CONTACT ENGINEER IF ADDITIONAL DIMENSIONS ARE NEEDED FOR CONSTRUCTION.
 13. PIPING OUTSIDE OF THE PROPOSED WATER TREATMENT PLANT FOOTPRINT TO MAINTAIN A MINIMUM 48" OF COVER, UNLESS NOTED OTHERWISE.
 14. ALL PRESSURIZED PIPING TO UTILIZE D.I.M.J. RESTRAINED JOINT FITTINGS.

- KEY NOTES**
- | | | |
|--|---|--|
| AGGREGATE PARKING LOT, SEE SHEET C800 DETAIL 6 | 6' WIDE ENTRANCE DOUBLE DOOR | PROPOSED SITE LIGHTING, SEE ELECTRICAL PLAN |
| PROPOSED CHAIN LINK FENCE | 3' WIDE ENTRANCE DOOR | PROPOSED ELECTRICAL PULL BOXES, SEE ELECTRICAL PLAN |
| PROPOSED CHAIN LINK ENTRY GATE | 8' WIDE ROLL-UP GARAGE DOOR | PROPOSED 6" DIAMETER CONCRETE BOLLARDS |
| PROPOSED WATER TREATMENT BUILDING | PROPOSED CAM LOCK FITTING | FOR INTERIOR PIPE PROCESSING LAYOUT, SEE SHEET D300 FOR INFORMATION |
| CONCRETE PAD AND SIDEWALK, SEE SHEET C800 DETAIL 7 | STAINLESS STEEL TAPPING SLEEVE AND VALVE ASSEMBLY (CONTRACTOR TO FIELD VERIFY DEPTH AND SIZE OF EXISTING WATER MAIN PRIOR TO MATERIAL PROCUREMENT AND CONNECTION) | RESTORATION EFFORTS WITHIN CONSTRUCTION LIMITS BUT OUTSIDE PROPERTY LINES TO BE PERFORMED INCLUDE GRADING, REMOVAL OF EXISTING STONE AND SEEDING TO EDGE OF DRIVE. |



**SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS**
9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1
Designed By: RJPA
Drawn By: RLH
Checked By: RJPA
Date: 02/03/2025



**PROPOSED SITE
IMPROVEMENTS PLAN**
C300

Lot 7

PRINT DATE: 5/16/25
PLOT SCALE: 1" = 10'



SITE PLAN LEGEND

	EXISTING EASEMENT
	P/L
	EXISTING TOP OF BANK
	EXISTING TOE OF SLOPE
	EXISTING EDGE OF GRAVEL
	EXISTING EDGE OF CONCRETE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED CONSTRUCTION LIMITS
	FLOW ARROW
	TOP OF CONCRETE AND FINISH GRADE SPOT ELEVATION
	TOP OF CONCRETE FINISH GRADE SPOT ELEVATION (MATCH EX.)

KEY NOTES

- AGGREGATE PARKING LOT, SEE SHEET C800 DETAIL 6
- CONCRETE PAD AND SIDEWALK, SEE SHEET C800 DETAIL 7
- RESTORATION EFFORTS WITHIN CONSTRUCTION LIMITS BUT OUTSIDE PROPERTY LINES TO BE PERFORMED INCLUDING GRADING, REMOVAL OF EXISTING STONE AND SEEDING TO EDGE OF DRIVE.

GRADING PLAN NOTES

- ALL ELEVATIONS AT CONSTRUCTION LIMITS SHALL MATCH EXISTING GRADE.
- TOPSOIL SHALL BE PLACED IN ALL LANDSCAPE AND YARD AREAS WITH A MINIMUM DEPTH OF 6".
- MAINTAIN SITE DRAINAGE AT ALL TIMES DURING EARTHWORK OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY DRAINAGE FACILITIES IF NECESSARY THROUGHOUT CONSTRUCTION.
- CONTOURS SHOW GRADING INTENT. THE CONTRACTOR MUST USE PROPOSED SPOT GRADE ELEVATIONS AND PROFILES TO BUILD SITE. CONTACT ENGINEER IF ADDITIONAL SPOT GRADES ARE NEEDED FOR CONSTRUCTION.
- PAVEMENT AREAS SHALL BE CONSTRUCTED OF SUITABLE FILL MATERIAL AND COMPACTED PER SPECIFICATIONS. FILL AREAS FOR PAVEMENTS ARE TO BE STRIPPED OF ALL TOPSOIL PRIOR TO PLACEMENT OF FILL.
- ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- SEE SANITARY PROFILE SHEETS FOR INVERT AND RIM ELEVATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THAT STAKED GRADES MATCH DESIGN ELEVATIONS AND POSITIVE DRAINAGE TO STORMWATER MANAGEMENT SYSTEM IS ACHIEVED. CONTACT ENGINEER IF DESIGN ELEVATIONS DO NOT PROVIDE POSITIVE DRAINAGE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EARTHWORK QUANTITIES AND INCLUDE ANY NECESSARY EXPORT OR IMPORT OF MATERIAL. IMPORT MATERIAL SHALL BE PRE-APPROVED BY THE ENGINEER/ARCHITECT. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW THE EXISTING CONDITIONS AND INCLUDE IN THEIR BID ALL EARTHWORK COSTS INCLUDING IMPORTS AND/OR EXPORTS NECESSARY TO MAKE THE SITE BALANCE.
- CONTRACTOR TO ADJUST ALL EXISTING SURFACE INFRASTRUCTURE (HYDRANTS, VALVES, HANDHOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS REQUIRED TO MEET PROPOSED GRADE AT NO COST TO OWNER.
- PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR AND CORRECT, IF ANY, STANDING WATER CONDITIONS AT NO COST TO OWNER.
- CONTRACTOR TO PERPETUATE ANY SUBSURFACE DRAIN TILES OR PIPES ENCOUNTERED DURING CONSTRUCTION AND PROVIDE POSITIVE POSITIVE OUTLET TO DOWNSTREAM RECEIVING SYSTEM. CONTRACTOR TO NOTIFY THE ENGINEER WITH ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.

RQAW

DCCM

SALT CREEK ESTATES WATER TREATMENT PLANT IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

PERMIT SET

#	Revision	Date

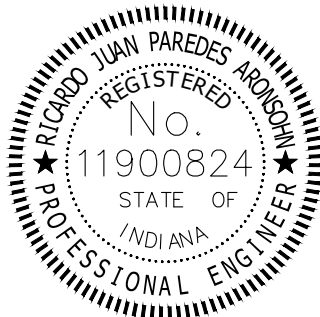
Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

Date: 02/03/2025



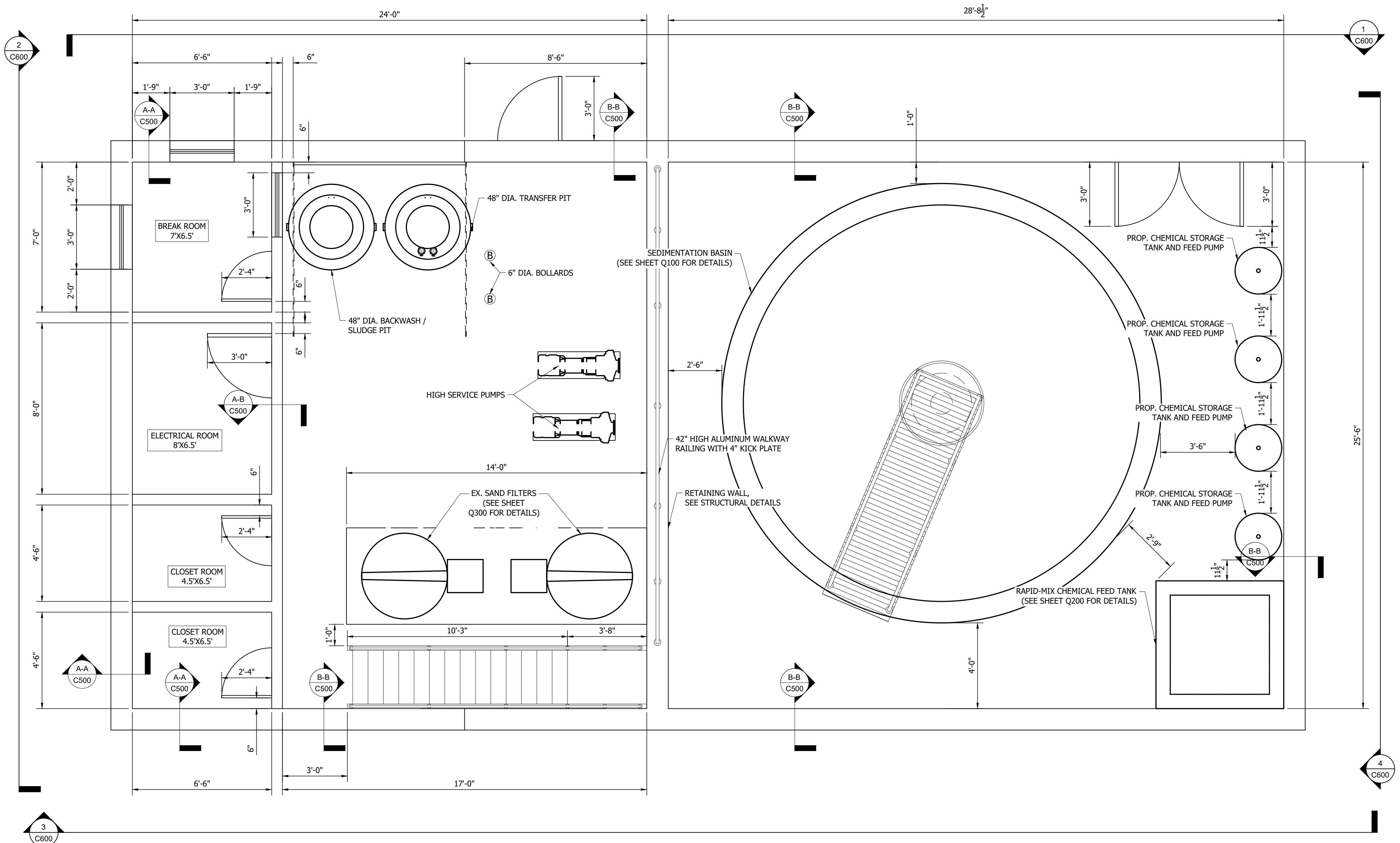
Richard Juan Paredes



PROPOSED SITE
GRADING PLAN

C400

PRINT DATE: 5/16/25
PLOT SCALE: 1:1
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EDIT DATE: 5/15/25 2:40 PM
EDITED BY: RHUNT



TREATMENT BUILDING FLOOR PLAN
SCALE: 3/8" = 1'-0"

NOTES

1. BREAK ROOM, ELECTRICAL ROOM, AND CLOSET ROOM (FUTURE BATHROOM AND FUTURE LAB ROOM) CEILINGS TO BE FRAMED WITH MOISTURE PROOF FLOOR JOISTS, DECKING AND INSULATION FOR A FUTURE MEZZANINE SPACE.
2. STRUCTURAL ELEMENTS OF BUILDING, UNLESS NOTED OTHERWISE, ARE TO BE DESIGNED BY THE CONTRACTOR OR THEIR MANUFACTURER. SEE DETAILS ON SHEET C501 AND SPECIFICATIONS FOR GUIDANCE.
3. TRANSFER PIT AND BACKWASH/SLUDGE PIT SHALL BE PRECAST CONCRETE STRUCTURES.
4. CONTRACTOR TO PROVIDE XYPEX BIO-SAN WATERPROOFING ADMIXTURE IN TRANSFER PIT STRUCTURE. COORDINATE THE QUANTITY OF ADMIXTURE WITH THE ADDITIVE PROVIDER.
5. CONTRACTOR TO LINE THE INSIDE OF THE BACKWASH/SLUDGE PIT STRUCTURE IN ACCORDANCE TO THE SPECIFICATIONS.

RQAW

DCCM

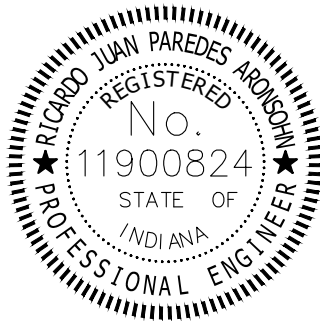
PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1
Designed By: RJPA
Drawn By: RLH
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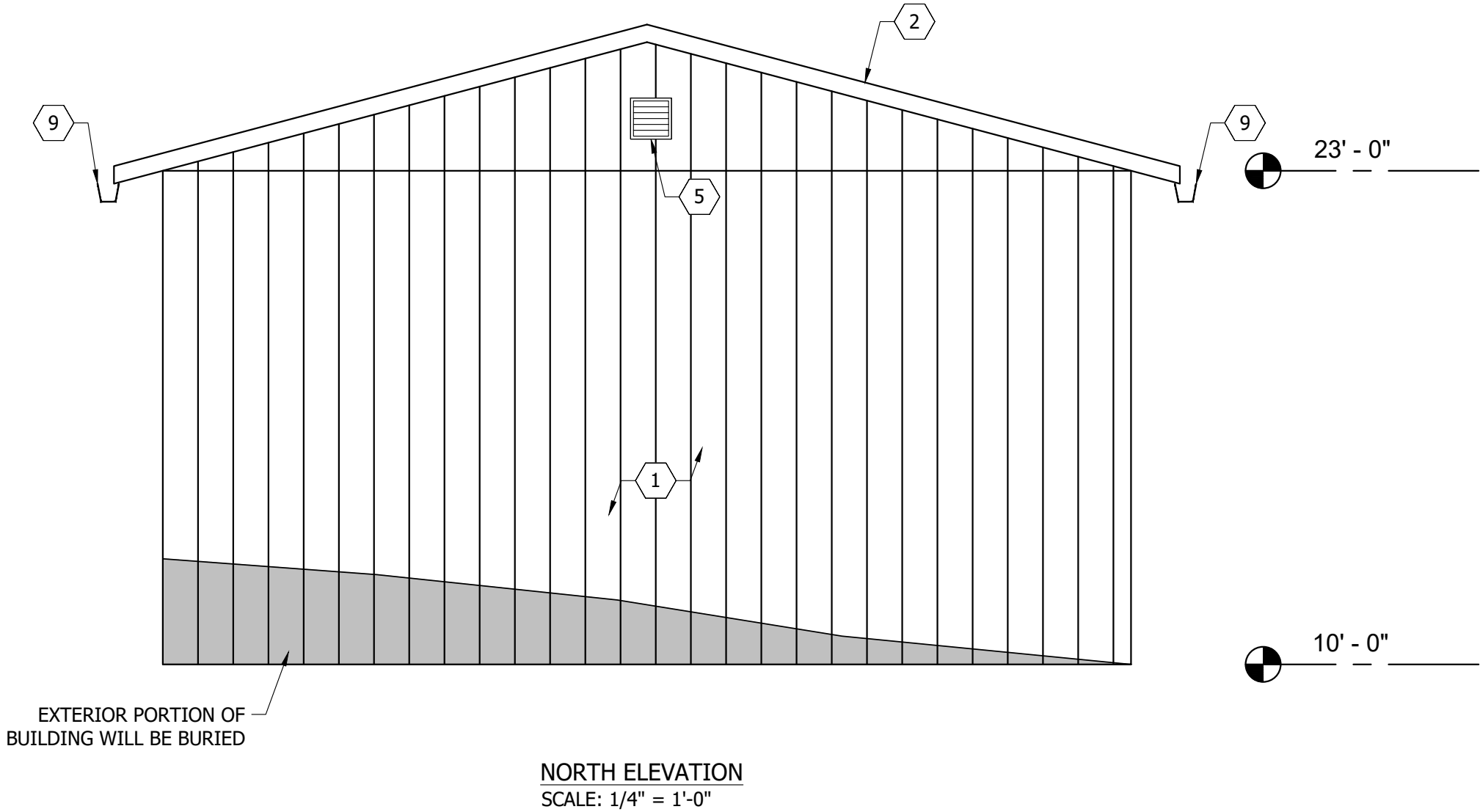
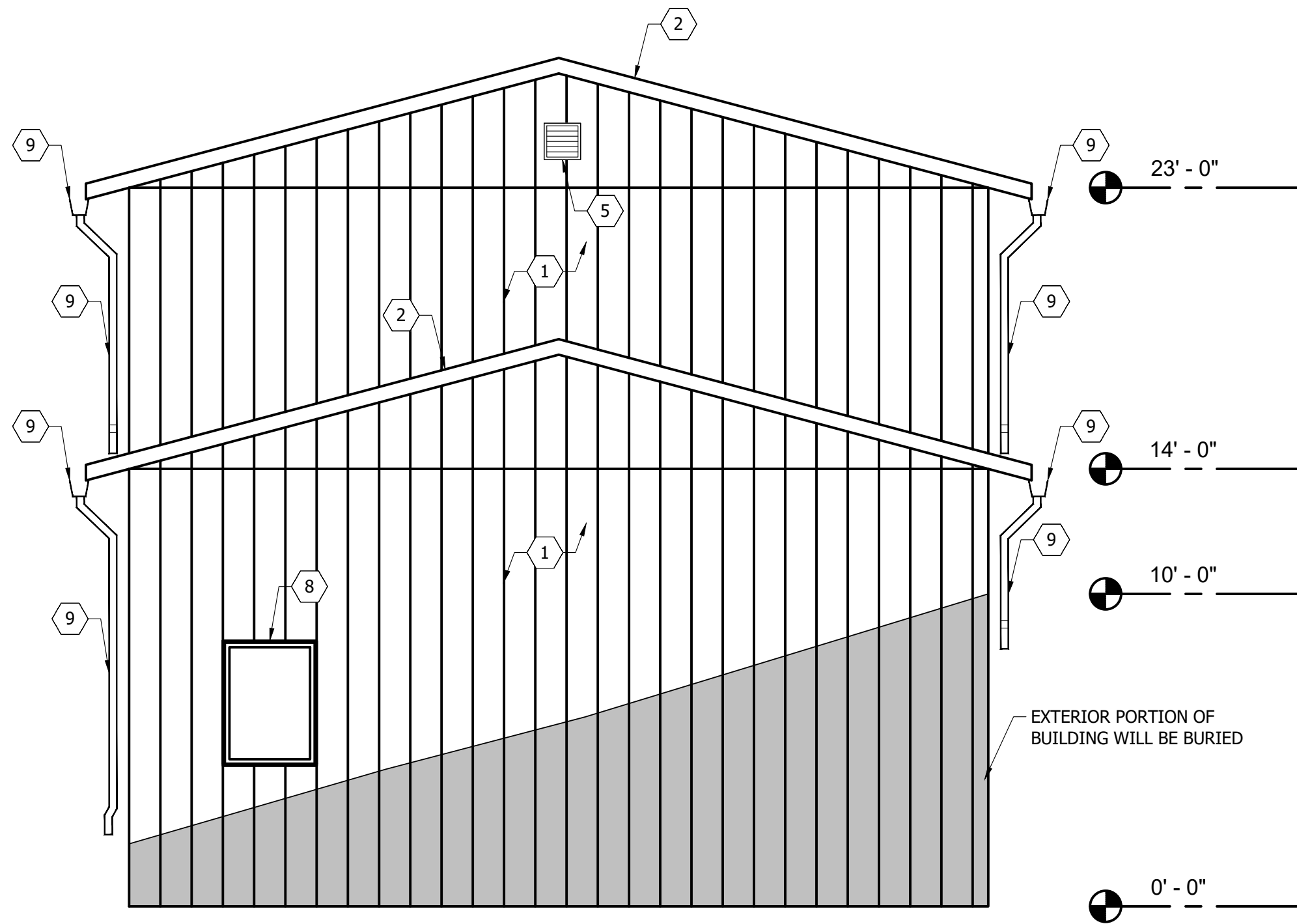
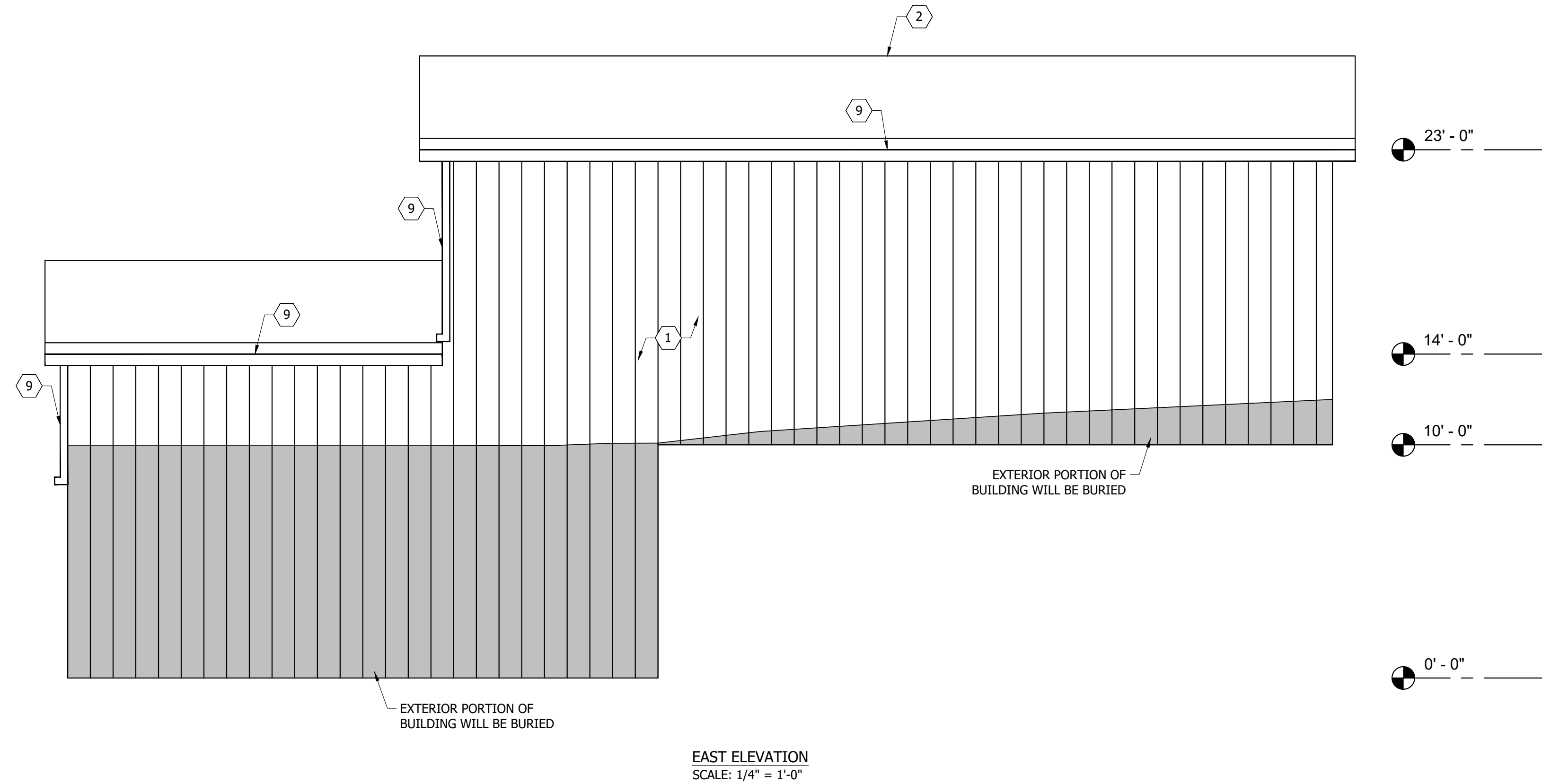
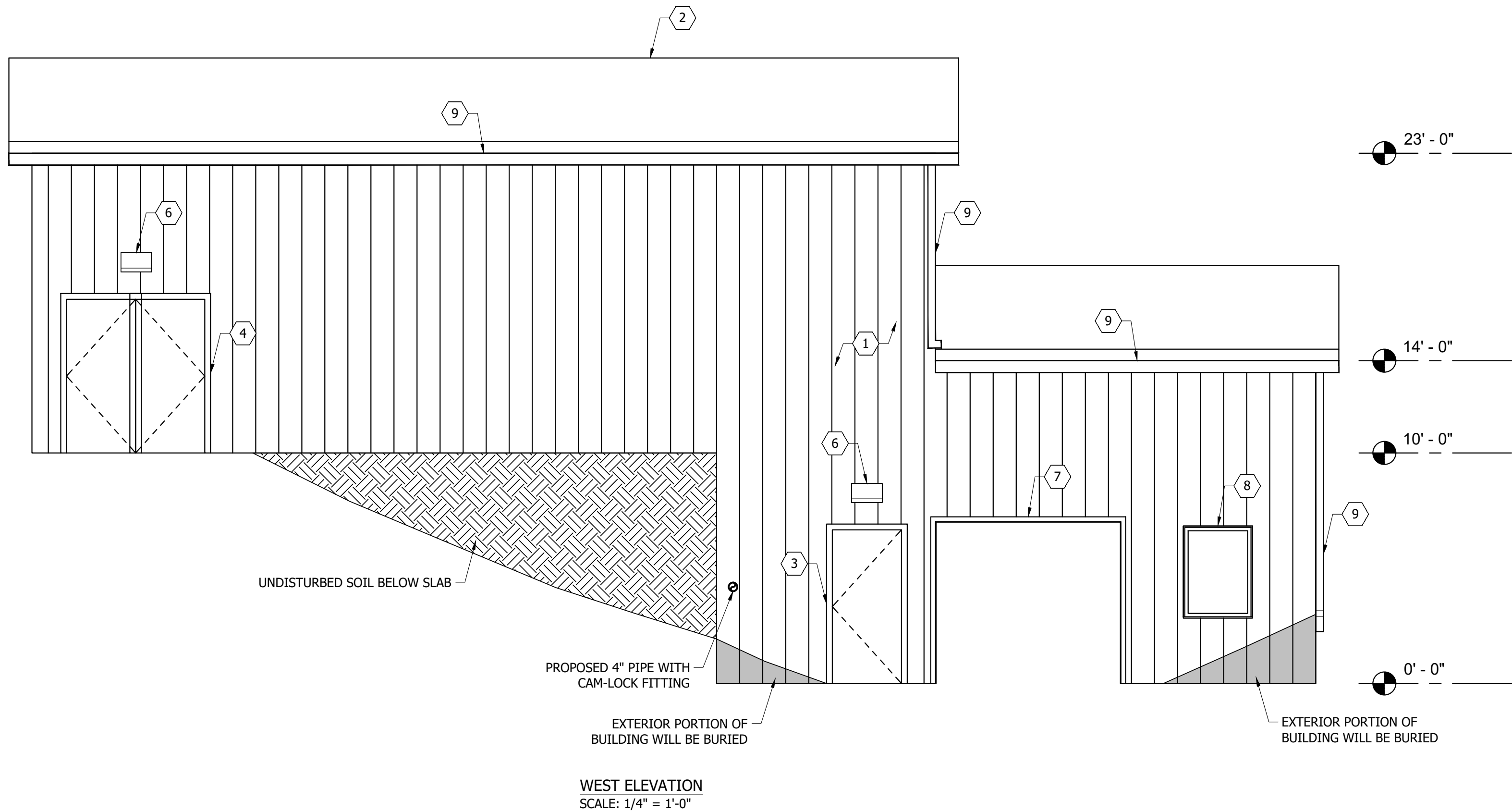
Ricardo Juan Paredes



PROPOSED TREATMENT
BUILDING FLOOR PLAN

C500

PRINT DATE: 5/16/25
PLOT SCALE: 1:1
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EDIT DATE: 5/15/25 2:40 PM
EDITED BY: RHUNT



KEY NOTES	
1	METAL WALL PANELS (G-RIB)
2	STANDING SEAM METAL ROOF
3	HM ENTRANCE DOOR AND FRAME
4	HM ENTRANCE DOUBLE DOOR AND FRAME
5	MANUFACTURED METAL VENT
6	SECURITY LIGHT WITH LIGHT SENSOR
7	8' WIDE X 7' TALL ROLL-UP GARAGE DOOR
8	3'X4' DOUBLE HUNG WINDOW
9	GUTTERS AND DOWNSPOUTS

NOTES	
1.	STRUCTURAL ELEMENTS OF BUILDING, UNLESS NOTED OTHERWISE, ARE TO BE DESIGNED BY THE CONTRACTOR OR THEIR MANUFACTURER. SEE SPECIFICATIONS.

PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1
Designed By: RJPA
Drawn By: RLH
Checked By: RJPA
Date: 02/03/2025

Professional Engineer Seal: RICHARD JUAN PAREDES, No. 11900824, STATE OF INDIANA, PROFESSIONAL ENGINEER

Signature: Ricardo Juan Paredes

Graphic Scale: 1/4" = 0' = 1/4" = 1/2"

SALT CREEK ESTATES WATER TREATMENT PLANT IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

PERMIT SET

#	Revision	Date

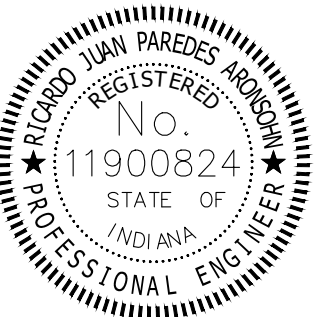
Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

Date: 02/03/2025



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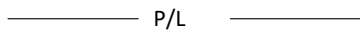

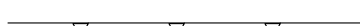


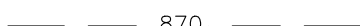
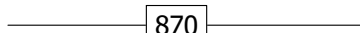




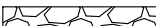
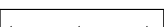


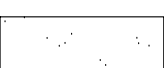
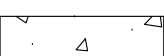


PRE CONSTRUCTION EROSION CONTROL PLAN

C700



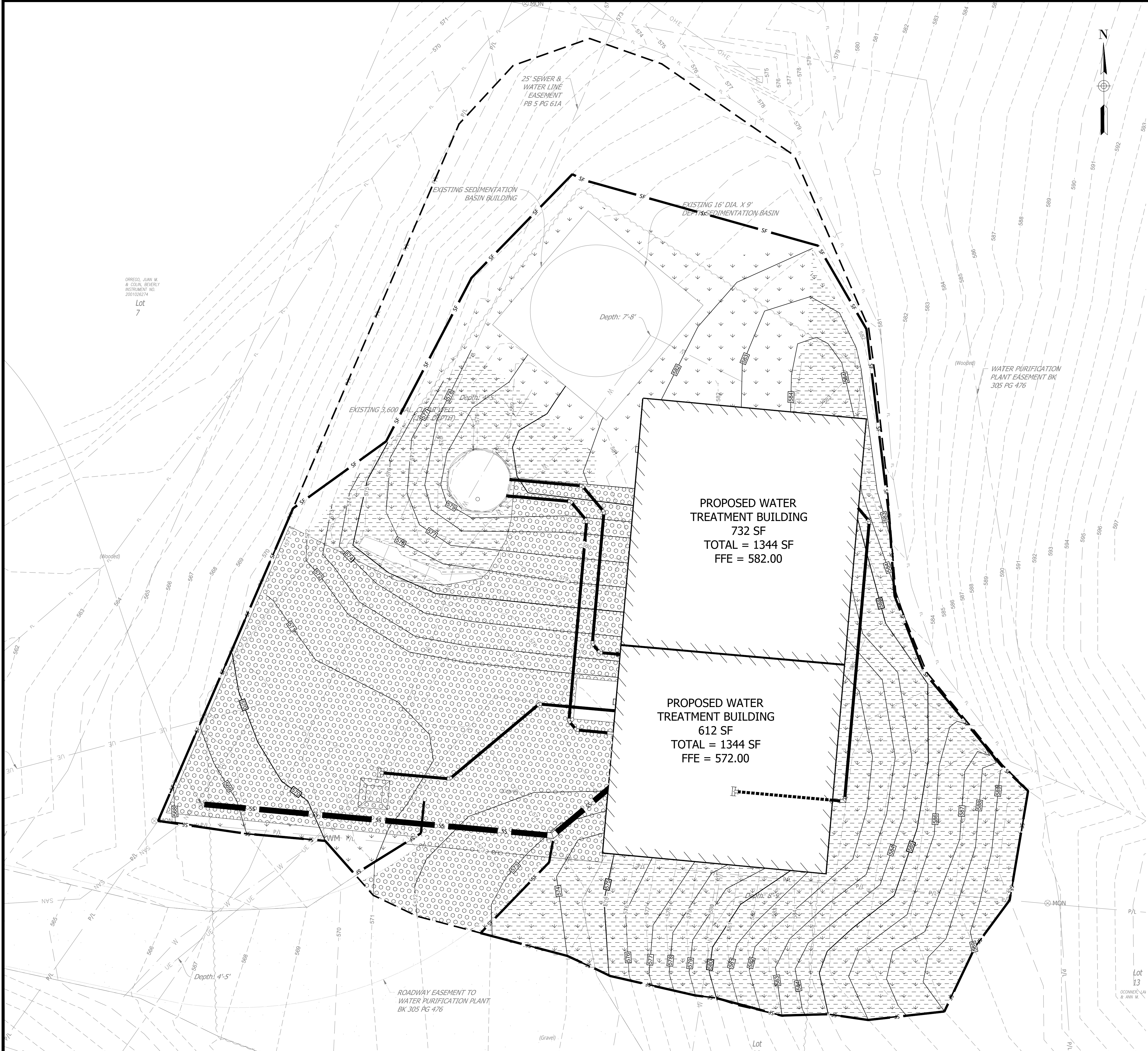
EROSION CONTROL PLAN LEGEND

	EXISTING EASEMENT
	EXISTING PROPERTY LINE
	EXISTING TOP OF BANK
	EXISTING TOE OF SLOPE
	EXISTING EDGE OF GRAVEL
	EXISTING EDGE OF CONCRETE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED CONSTRUCTION LIMITS
	EROSION CONTROL SILT FENCE
	EROSION CONTROL FILTER SOCK
	EROSION CONTROL BLANKET
	CONSTRUCTION ENTRANCE
	EXISTING SEEDING
	CONCRETE WASHOUT
	REVETMENT RIPRAP/ NO. 2 STONE
	EXISTING GRAVEL LOT
	EXISTING CONCRETE

EROSION CONTROL PLAN NOTES

1. SEE SHEET USGS FOR SOILS MAP AND SOIL CHARACTERISTICS.
2. SEE SHEET C703 FOR EROSION CONTROL DETAILS.
3. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION.
4. ACCESS TO THE SITE SHALL BE RESTRICTED TO THE LOCATION AS SHOWN. NO OTHER SITE ACCESS IS AVAILABLE UNLESS THE CONTRACTOR OBTAINS APPROVAL FROM ADJACENT PROPERTY OWNER AND APPROVAL FROM THE CITY.
5. EROSION CONTROL MAINTENANCE - SITE TO BE INSPECTED ONCE A WEEK AND AFTER EVERY RAINFALL EVENT. MAKE REPAIRS IMMEDIATELY.
6. THE SITE IS NOT LOCATED ON OR ADJACENT TO ANY FLOODWAY/FLOOD PLAIN AREAS.
7. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS AND UNTIL ALL DISTURBED AREAS ARE STABILIZED.
8. AREAS THAT WILL BE DISTURBED FOR MORE THAN 7 DAYS SHALL BE STABILIZED IMMEDIATELY WITH TEMPORARY SEEDING. ALL DISTURBED YARD/GRASS AREAS MUST BE STABILIZED WITH PERMANENT SEEDING MEASURES.
9. SEE SHEET FOR C703 FOR GENERAL SEEDING AND SURFACE STABILIZATION PROCEDURES.
10. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ADDITIONAL EROSION CONTROL MEASURES TO REQUEST OF LOCAL AND/OR STATE STORMWATER AND EROSION CONTROL INSPECTORS.
11. SPOILS TO BE REMOVED FROM SITE, CONTRACTOR TO DETERMINE LOCATION AND COORDINATE WITH THE LOCAL EROSION CONTROL AUTHORITY.
12. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE PROJECT SITE.
13. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN RECEIVING WATER. NO STORMWATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
14. PRIOR TO COMPLETION OF THIS PROJECT, CONTRACTOR SHALL CLEAN OUT ALL STORM DRAINAGE STRUCTURES AND RESTORE ALL DITCHES AND BASINS TO DESIGNED GRADES.

PRINT DATE: 5/16/25 2:51 PM EDIT DATE: 5/16/25 2:51 PM EDITED BY: RHUNT DRAWING FILE: P:23-400-188-1 SALT CREEK ESTATES UTILITIES/ACAD/PLAN SHEETS/234001881 EROSION CONTROL PLAN.DWG PLOT SCALE: 1:1



EROSION CONTROL PLAN LEGEND	
	EXISTING EASEMENT
	EXISTING PROPERTY LINE
	EXISTING TOP OF BANK
	EXISTING TOE OF SLOPE
	EXISTING EDGE OF GRAVEL
	EXISTING EDGE OF CONCRETE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED CONSTRUCTION LIMITS
	EROSION CONTROL SILT FENCE
	EROSION CONTROL FILTER SOCK
	EROSION CONTROL BLANKET
	PERMANENT SEEDING
	REVTMENT RIPRAP/ NO. 2 STONE
	CONSTRUCTION ENTRANCE
	CONCRETE WASHOUT

- | EROSION CONTROL PLAN NOTES | |
|----------------------------|--|
| 1. | SEE SHEET USGS FOR SOILS MAP AND SOIL CHARACTERISTICS. |
| 2. | SEE SHEET C703 FOR EROSION CONTROL DETAILS. |
| 3. | ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION. |
| 4. | ACCESS TO THE SITE SHALL BE RESTRICTED TO THE LOCATION AS SHOWN. NO OTHER SITE ACCESS IS AVAILABLE UNLESS THE CONTRACTOR OBTAINS APPROVAL FROM ADJACENT PROPERTY OWNER AND APPROVAL FROM THE CITY. |
| 5. | EROSION CONTROL MAINTENANCE - SITE TO BE INSPECTED ONCE A WEEK AND AFTER EVERY RAINFALL EVENT. MAKE REPAIRS IMMEDIATELY. |
| 6. | THE SITE IS NOT LOCATED ON OR ADJACENT TO ANY FLOODWAY/FLOOD PLAIN AREAS. |
| 7. | EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS AND UNTIL ALL DISTURBED AREAS ARE STABILIZED. |
| 8. | AREAS THAT WILL BE DISTURBED FOR MORE THAN 7 DAYS SHALL BE STABILIZED IMMEDIATELY WITH TEMPORARY SEEDING. ALL DISTURBED YARD/GRASS AREAS MUST BE STABILIZED WITH PERMANENT SEEDING MEASURES. |
| 9. | SEE SHEET FOR C703 FOR GENERAL SEEDING AND SURFACE STABILIZATION PROCEDURES. |
| 10. | CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ADDITIONAL EROSION CONTROL MEASURES TO REQUEST OF LOCAL AND/OR STATE STORMWATER AND EROSION CONTROL INSPECTORS. |
| 11. | SPOILS TO BE REMOVED FROM SITE, CONTRACTOR TO DETERMINE LOCATION AND COORDINATE WITH THE LOCAL EROSION CONTROL AUTHORITY. |
| 12. | CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE PROJECT SITE. |
| 13. | SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN RECEIVING WATER. NO STORMWATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE. |
| 14. | PRIOR TO COMPLETION OF THIS PROJECT, CONTRACTOR SHALL CLEAN OUT ALL STORM DRAINAGE STRUCTURES AND RESTORE ALL DITCHES AND BASINS TO DESIGNED GRADES. |



PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

Date: 02/03/2025

Professional Engineer Seal: RICHARD JUAN PAREDES, No. 11900824, STATE OF INDIANA, PROFESSIONAL ENGINEER.

Signature: Ricardo Juan Paredes

Graphic Scale: 0 to 12 feet.

PRINT DATE: 5/16/25 2:51 PM EDIT DATE: 5/16/25 2:51 PM EDITED BY: RHUNT DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\5 ACAD\PLAN SHEETS\234001881 EROSION CONTROL PLAN.DWG PLOT SCALE: 1" = 10'



EROSION CONTROL PLAN LEGEND

P/L

870

SF

EXISTING EASEMENT

EXISTING PROPERTY LINE

EXISTING TOP OF BANK

EXISTING TOE OF SLOPE

EXISTING EDGE OF GRAVEL

EXISTING EDGE OF CONCRETE

EXISTING CONTOUR

PROPOSED CONTOUR

PROPOSED CONSTRUCTION LIMITS

EROSION CONTROL SILT FENCE

EROSION CONTROL FILTER SOCK

EROSION CONTROL BLANKET

PERMANENT SEEDING

REVTMENT RIPRAP/
NO. 2 STONE

CONSTRUCTION ENTRANCE

CONCRETE WASHOUT

EROSION CONTROL PLAN NOTES

1. SEE SHEET USGS FOR SOILS MAP AND SOIL CHARACTERISTICS.

2. SEE SHEET C703 FOR EROSION CONTROL DETAILS.

3. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION.

4. ACCESS TO THE SITE SHALL BE RESTRICTED TO THE LOCATION AS SHOWN. NO OTHER SITE ACCESS IS AVAILABLE UNLESS THE CONTRACTOR OBTAINS APPROVAL FROM ADJACENT PROPERTY OWNER AND APPROVAL FROM THE CITY.

5. EROSION CONTROL MAINTENANCE - SITE TO BE INSPECTED ONCE A WEEK AND AFTER EVERY RAINFALL EVENT. MAKE REPAIRS IMMEDIATELY.

6. THE SITE IS NOT LOCATED ON OR ADJACENT TO ANY FLOODWAY/FLOOD PLAIN AREAS.

7. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS AND UNTIL ALL DISTURBED AREAS ARE STABILIZED.

8. AREAS THAT WILL BE DISTURBED FOR MORE THAN 7 DAYS SHALL BE STABILIZED IMMEDIATELY WITH TEMPORARY SEEDING. ALL DISTURBED YARD/GRASS AREAS MUST BE STABILIZED WITH PERMANENT SEEDING MEASURES.

9. SEE SHEET FOR C703 FOR GENERAL SEEDING AND SURFACE STABILIZATION PROCEDURES.

10. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ADDITIONAL EROSION CONTROL MEASURES TO REQUEST OF LOCAL AND/OR STATE STORMWATER AND EROSION CONTROL INSPECTORS.

11. SPOILS TO BE REMOVED FROM SITE, CONTRACTOR TO DETERMINE LOCATION AND COORDINATE WITH THE LOCAL EROSION CONTROL AUTHORITY.

12. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE PROJECT SITE.

13. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN RECEIVING WATER. NO STORMWATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.

14. PRIOR TO COMPLETION OF THIS PROJECT, CONTRACTOR SHALL CLEAN OUT ALL STORM DRAINAGE STRUCTURES AND RESTORE ALL DITCHES AND BASINS TO DESIGNED GRADES.

RQAW

DCCM

PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

Date: 02/03/2025

RICHARD JUAN PAREDES

REGISTERED

No. 11900824

STATE OF INDIANA

PROFESSIONAL ENGINEER

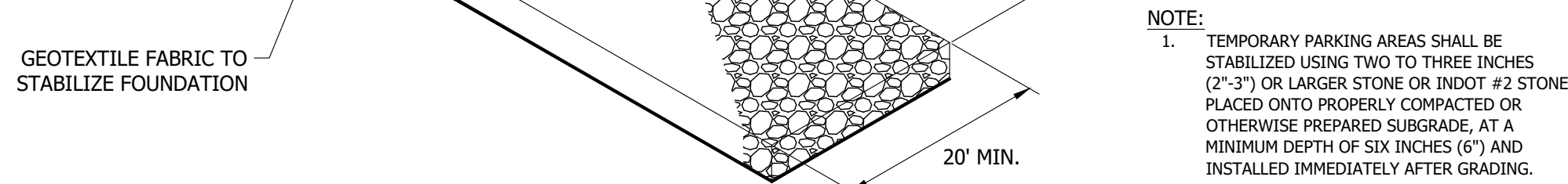
Richard Juan Paredes

6" 0 6" 12"

GRAPHIC SCALE

POST CONSTRUCTION
EROSION CONTROL PLAN

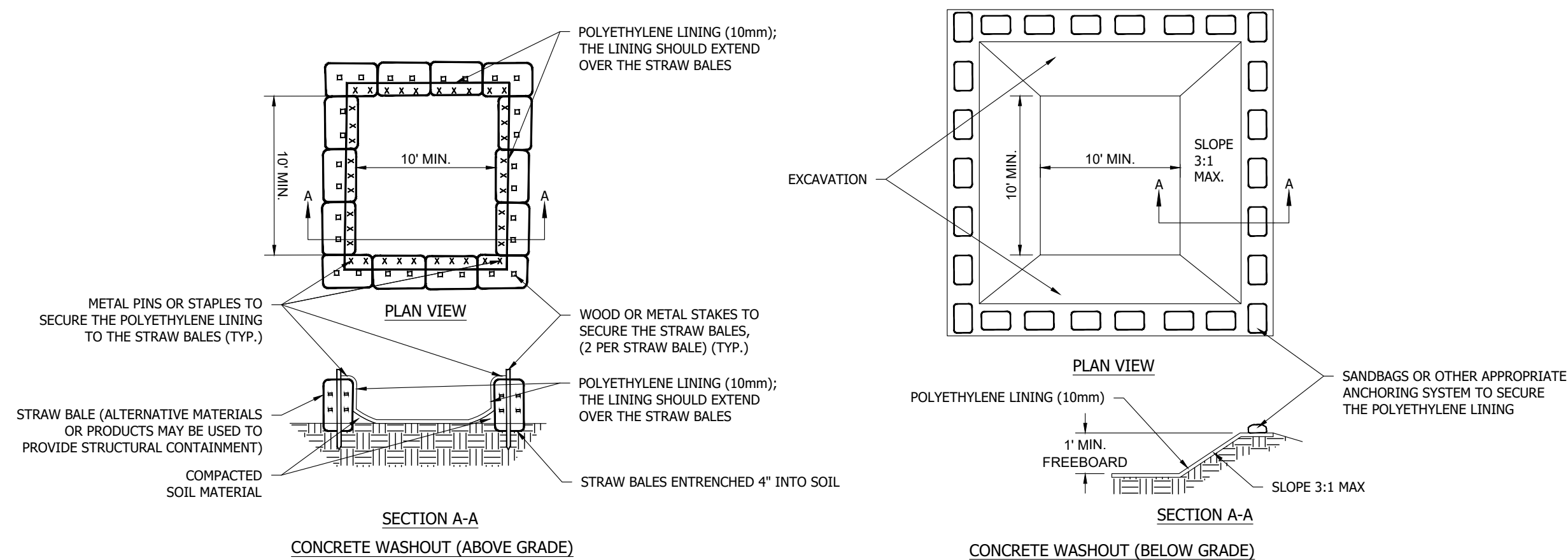
C702



1. REMOVE ALL VEGETATION AND OTHER OBJECTABLE MATERIAL FROM THE FOUNDATION AREA.
2. GRADE FOUNDATION AND CROWN FOR POSITIVE DRAINAGE. IF THE SLOPE OF THE CONSTRUCTION ENTRANCE IS TOWARD A PUBLIC ROAD AND EXCEEDS TWO PERCENT, CONSTRUCT AN EIGHT INCH HIGH DIVERSION RIDGE WITH A RATIO OF 3-TO-1 SIDE SLOPES ACROSS THE FOUNDATION AREA ABOUT 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE ROAD.
3. INSTALL A CULVERT PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
4. IF WET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.
5. PLACE AGGREGATE (INDOT CA NO. 2) TO THE DIMENSIONS AND GRADE SHOWN IN THE CONSTRUCTION PLANS, LEAVING THE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
6. TOP-DRESS THE FIRST 50 FEET ADJACENT TO THE PUBLIC ROADWAY WITH TWO TO THREE INCHES OF WASHED AGGREGATE (INDOT CA NO. 53) [OPTIONAL, USED PRIMARILY WHERE THE PURPOSED OF THE PAD IS KEEP SOIL FROM ADHERING TO VEHICLE TIRES]
7. WHERE POSSIBLE, DIVERT ALL STORM WATER RUNOFF AND DRAINAGE FROM THE INGRESS/EGRESS PAD TO A SEDIMENT TRAP OR BASIN.

1. INSPECT DAILY.
2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOP DRESS WITH CLEAN AGGREGATE AS NEEDED.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS.
5. FLUSHING SHOULD ONLY BE USED IF THE WATER CAN BE CONVEYED INTO A SEDIMENT TRAP OR BASIN.

1 TEMPORARY CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE



1. INSTALL AND LOCATE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

2. UTILIZE AND FOLLOW THE DESIGN IN THE STORM WATER POLLUTION PREVENTION PLAN TO INSTALL THE SYSTEM.
3. EXCAVATE AND REMOVE EXISTING MATERIAL TO THE POINT OF DISPOSAL TO INSTALL THE CONTAINMENT SYSTEM.
4. A BASE SHALL BE CONSTRUCTED AND PREPARED THAT IS FREE OF ROCKS AND OTHER DEBRIS THAT MAY CAUSE TEARS OR PUNCTURES IN THE POLYETHYLENE LINING.
5. INSTALL THE POLYETHYLENE LINING. FOR EXCAVATED SYSTEMS, THE LINING SHOULD EXTEND OVER THE ENTIRE EXCAVATION, THE LINING FOR BERMED SYSTEMS SHOULD BE EXTENDED TO THE TOP OF THE EXCAVATION. PROVIDE ENOUGH MATERIAL TO EXTEND THE LINING OVER THE BERM OR CONTAINMENT SYSTEM. THE LINING SHOULD BE SECURED WITH PINS, STAPLES, OR OTHER FASTENERS.
6. PLACE PLAS, SAFETY FENCING, OR EQUIVALENT TO PROVIDE A BARRIER TO CONSTRUCTION EQUIPMENT AND OTHER TRAFFIC.
7. PROVIDE A DRAINAGE SYSTEM TO COLLECT AND REMOVE RUNOFF FROM THE WASHOUT FACILITY PRIOR TO A PREDICTED RAINFALL EVENT TO PREVENT ACCUMULATION OF WATER AND POSSIBLE OVERFLOW OF THE SYSTEM (OPTIONAL).
8. INSTALL SIGNAGE THAT IDENTIFIES CERTAIN WASHOUT AREAS.
9. PROVIDE CONTRACTORS AND SUPPLIERS TO DESIGNATED LOCATIONS.
10. WHERE NECESSARY, PROVIDE STABLE INGRESS AND EGRESS OR ALTERNATIVE APPROACH PAD FOR CONCRETE WASHOUT SYSTEMS.

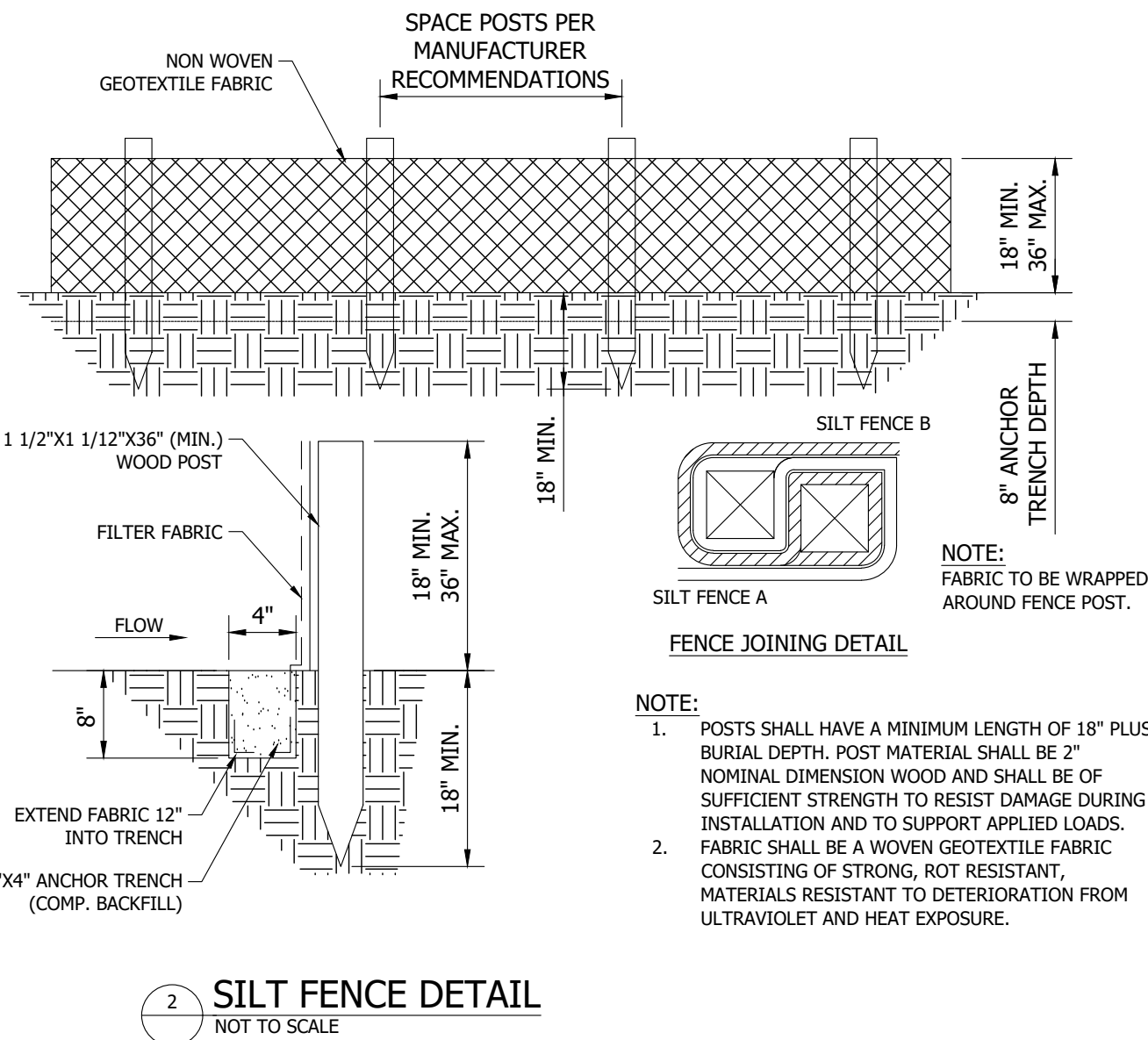
11. INSPECT DAILY AND AFTER EACH STORM EVENT.
12. INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE INCLUDING, WHERE APPLICABLE, THE CONTAINMENT SYSTEM.
13. INSPECT THE SYSTEM FOR LEAKS, SPILLS, AND TRACKING OF SOIL BY EQUIPMENT.
14. INSPECT THE POLYETHYLENE LINING FOR FAILURE, INCLUDING TEARS AND PUNCTURES.
15. ONCE CONCRETE WASTES HARDEN, REMOVE AND DISPOSE OF THE MATERIAL.
16. EXCESS CONCRETE SHOULD BE REMOVED WHEN THE WASHOUT SYSTEM REACHES 50 PERCENT OF THE DESIGN CAPACITY. USE OF THE SYSTEM SHOULD BE DISCONTINUED UNTIL APPROPRIATE MEASURES CAN BE INITIATED TO CLEAN THE STRUCTURE. PREFABRICATED SYSTEMS SHOULD ALSO UTILIZE THIS CRITERION, UNLESS THE MANUFACTURER HAS ALTERNATE SPECIFICATIONS.
17. IF THE SOLIDS, INSPECT THE STRUCTURE TO DETERMINE IF THE STRUCTURE AS NEEDED OR CONSTRUCT A NEW SYSTEM.
18. DISPOSE OF ALL CONCRETE IN A LEGAL MANNER. REUSE THE MATERIAL ON SITE, RECYCLE, OR HAIL THE MATERIAL TO AN APPROVED CONSTRUCTION/DEMOLITION LANDFILL SITE. RECYCLING OF MATERIAL IS ENCOURAGED. THE WASTE MATERIAL CAN BE USED FOR MULTIPLE APPLICATIONS INCLUDING BUT NOT LIMITED TO ROADBEDS AND BUILDING. THE AVAILABILITY FOR RECYCLING SHOULD BE CHECKED LOCALLY.
19. THE PLASTIC LINER SHOULD BE REPLACED AFTER EVERY CLEANING; THE REMOVAL OF MATERIAL WILL USUALLY DAMAGE THE LINING.
20. THE CONCRETE WASHOUT SYSTEM SHOULD BE REPAIRED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE.
21. CONCRETE WASHOUT SYSTEMS ARE DESIGNED TO PROMOTE EVAPORATION. HOWEVER, IF THE LIQUIDS DO NOT EVAPORATE AND THE SYSTEM IS NEAR CAPACITY IT MAY BE NECESSARY TO REMOVE THE LIQUIDS AND DISPOSE OF THEM IN AN ACCEPTABLE METHOD. DISPOSAL MAY BE ALLOWED AT THE LOCAL SANITARY SEWER AUTHORITY PROVIDED THEIR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS ALLOW FOR ACCEPTANCE OF THIS MATERIAL. ANOTHER OPTION WOULD BE TO UTILIZE A SECONDARY CONTAINMENT SYSTEM OR BASIN FOR FURTHER Dewatering.
22. PREFABRICATED UNITS ARE OFTEN PUMPED AND THE COMPANY SUPPLYING THE UNIT PROVIDES THIS SERVICE.
23. INSPECT CONSTRUCTION ACTIVITIES ON A REGULAR BASIS TO ENSURE SUPPLIERS, CONTRACTORS, AND OTHERS ARE UTILIZING DESIGNATED WASHOUT AREAS. IF CONCRETE WASTE IS BEING DISPOSED OF INAPPROPRIATELY, IDENTIFY THE VIOLATORS AND TAKE APPROPRIATE ACTION.
24. WHEN CONCRETE WASHOUT SYSTEMS ARE NO LONGER REQUIRED, THE CONCRETE WASHOUT SYSTEMS SHALL BE CLOSED, DISPOSE OF ALL HARDENED CONCRETE AND OTHER MATERIALS USED TO CONSTRUCT THE SYSTEM.
25. HOLES, DEPRESSIONS AND OTHER LAND DISTURBANCES ASSOCIATED WITH THE SYSTEM SHOULD BE BACKFILLED, GRADED, AND STABILIZED.

3 CONCRETE WASHOUT DETAIL
NOT TO SCALE

- INSTALLED PARALLEL TO THE SLOPE CONTOUR
- MINIMUM 10' BEYOND THE TOE OF SLOPE TO PROVIDE A BROAD, SHALLOW SEDIMENT POOL
- ACCESSIBLE FOR MAINTENANCE (REMOVAL OF SEDIMENT AND SILT FENCE REPAIR)

1. LAYOUT THE LOCATION OF THE FENCE SO THAT IT IS PARALLEL TO THE CONTOUR OF THE SLOPE AND AT LEAST 10' BEYOND THE TOE OF SLOPE TO PROVIDE A SEDIMENT STORAGE AREA. TURN THE ENDS OF THE FENCE UP SLOPE SIDE OF THE POINT OF THE CONTOUR. THE FENCE SHOULD BE PLACED ON THE BOTTOM OF THE TRENCH AND TERMINATES AT A HIGHER ELEVATION THAN THE TOP OF THE FENCE AT ITS LOWEST POINT.
2. EXCAVATE AN 8" DEEP BY 4" WIDE TRENCH ALONG THE ENTIRE LENGTH OF THE FENCE LINE. INSTALLATION BY PLOWING IS ALSO ACCEPTABLE.
3. INSTALL THE SILT FENCE WITH THE FILTER FABRIC LOCATED ON THE UP-SLOPE SIDE OF THE EXCAVATED TRENCH AND THE SUPPORT POSTS ON THE DOWN-SLOPE SIDE OF THE TRENCH.
4. DRIVE THE SUPPORT POSTS AT LEAST 18" INTO THE GROUND. TIGHTLY STRETCHING THE FABRIC BETWEEN THE POSTS AS EACH IS DRIVEN INTO THE SOIL. A MINIMUM OF 12" OF THE FILTER FABRIC SHOULD EXTEND INTO THE TRENCH. (IF IT IS NECESSARY TO JOIN THE ENDS OF THE FENCE, USE THE WRAP-ON-TIE METHOD.)
5. LAY THE LOWER 41" OF FILTER FABRIC ON THE BOTTOM OF THE TRENCH AND EXTEND IT TOWARD THE UP-SLOPE SIDE OF THE TRENCH.
6. BACKFILL THE TRENCH WITH SOIL MATERIAL AND COMPACT IT IN PLACE.

- INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- IF FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY. NOTE: ALL REPAIRS SHOULD MEET SPECIFICATIONS AS OUTLINED WITH THIS MEASURE.
- REMOVE DEPOSITED SEDIMENT WHEN IT IS CAUSING THE FILTER FABRIC TO BULGE OR WHEN IT REACHES ONE-HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT. WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, GRADE THE SITE TO BLEND WITH THE SURROUNDING AREA, AND STABILIZE.



SILT FENCE DETAIL

#	Revision	Date

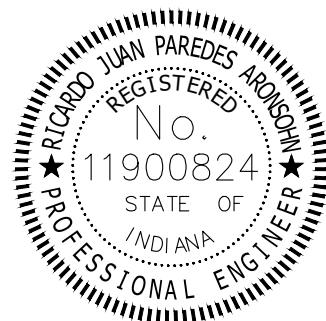
Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

Date: 02/03/2025

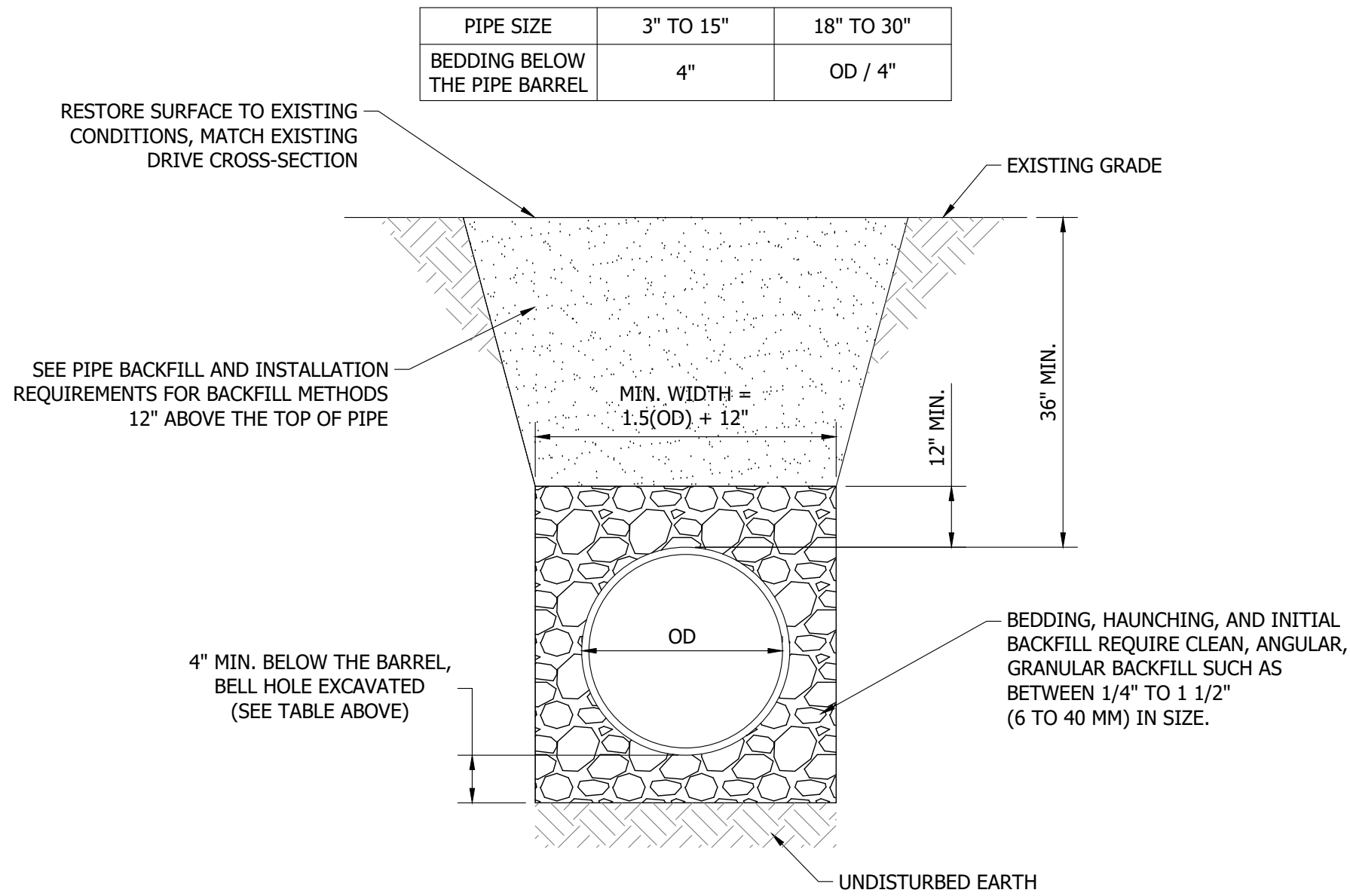


Ricardo Juan Paredes Mansueto

EROSION CONTROL DETAILS

C703

PRINT DATE: 5/16/25 PLOT SCALE: 1:1 EDIT DATE: 5/15/25 2:39 PM EDITED BY: RHUNT DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\ACAD\PLAN SHEETS\234001881 CONSTRUCTION DETAILS.DWG



NOTE:
PIPE BEDDING AND BACKFILL WITHIN 5' OF, OR UNDER PAVEMENT:

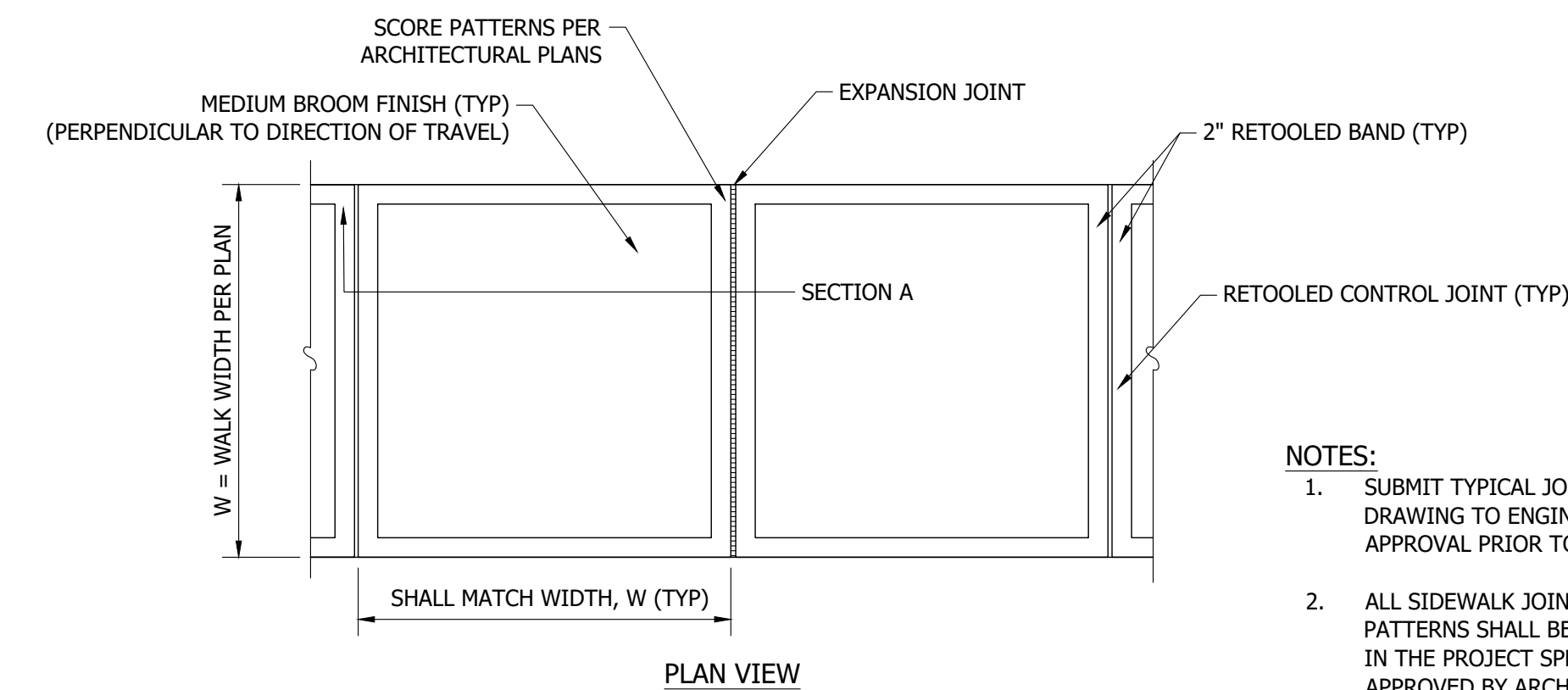
- ALL BACKFILL PLACED WITHIN TRAFFIC INFLUENCE ZONES SHALL CONFORM TO THE FOLLOWING CRITERIA:
1. INSTALLED IN LIFTS NOT EXCEEDING SIX (6) INCHES
 2. COMPACTED TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH AASHTO T 99 AS SPECIFIED IN INDOT SS SECTION 203 OR AS DIRECTED BY THE CITY ENGINEERING OR COUNTY ENGINEERING DEPARTMENT.
 3. SHALL CONSIST OF MANUFACTURED, CLEAN, ANGULAR, GRANULAR MATERIAL SUCH AS CRUSHED STONE, WITH GRADATION BETWEEN 1/4" TO 1 1/2" (6 TO 40 MM) IN SIZE.

PIPE BEDDING AND BACKFILL MORE THAN 5' FROM PAVEMENT:

FINAL BACKFILL REQUIREMENTS, NOT SUBJECT TO THE INFLUENCE OF TRAFFIC AS NOTED ABOVE, SHALL GENERALLY BE BACKFILLED WITH ACCEPTABLE, EXCAVATED TRENCH IN-SITU SOIL MATERIALS IN ACCORDANCE WITH THE FOLLOWING:

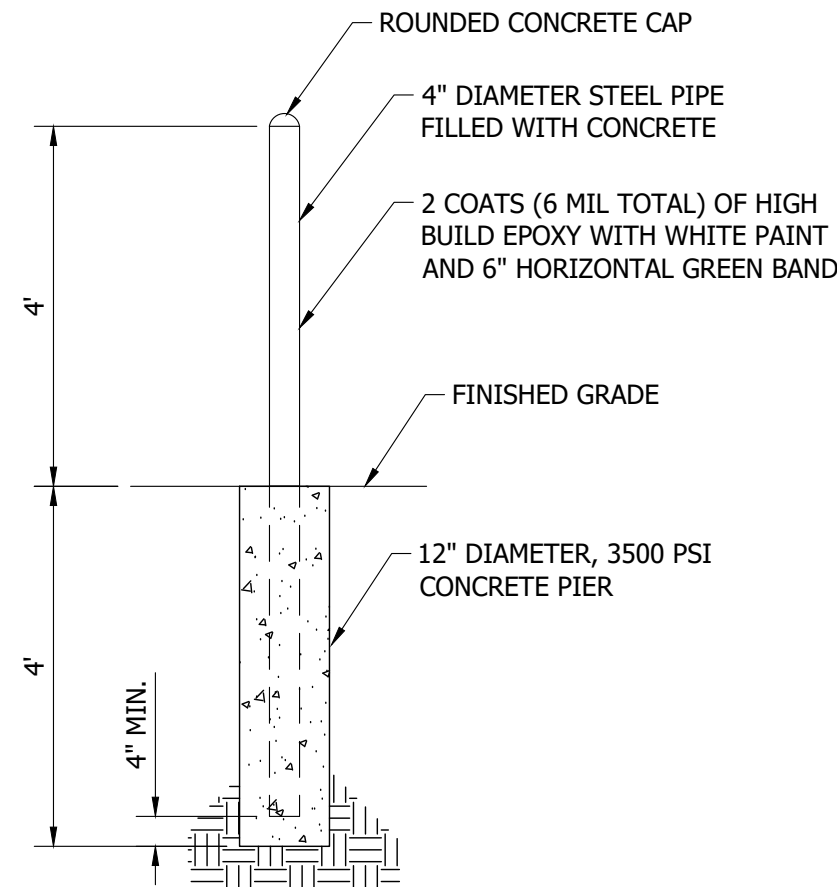
1. IN-SITU SOIL MATERIALS SHALL BE PLACED AND COMPACTED IN TWELVE (12) INCH LIFTS AND/OR MOUNDED TO ACCOMMODATE SETTLEMENT DURING PROJECT DEVELOPMENT. THE MOUNDED AREAS SHALL MEET PROPOSED GRADE NO MORE THAN 30 DAYS AFTER PIPE INSTALLATION AND BACKFILL IS COMPLETE.
2. IN-SITU SOIL MATERIALS SHALL BE FREE FROM ROCKS (THREE INCHES IN DIAMETER OR GREATER) CONCRETE, ROOTS, STUMPS, LARGE AMOUNTS OF SOD OR OTHER ORGANIC MATERIALS, RUBBISH, FROZEN MATERIALS AND OTHER SIMILAR ARTICLES WHOSE PRESENCE IN THE BACKFILL WOULD CAUSE EXCESSIVE SETTLEMENT.
3. TO ALLOW FOR SETTLEMENT, THE SURFACE OF THE TRENCH SHALL GENERALLY BE LEFT IN A SLIGHTLY ROUNDED CONDITION

1 PVC AND HDPE PIPE TRENCH DETAIL NOT TO SCALE

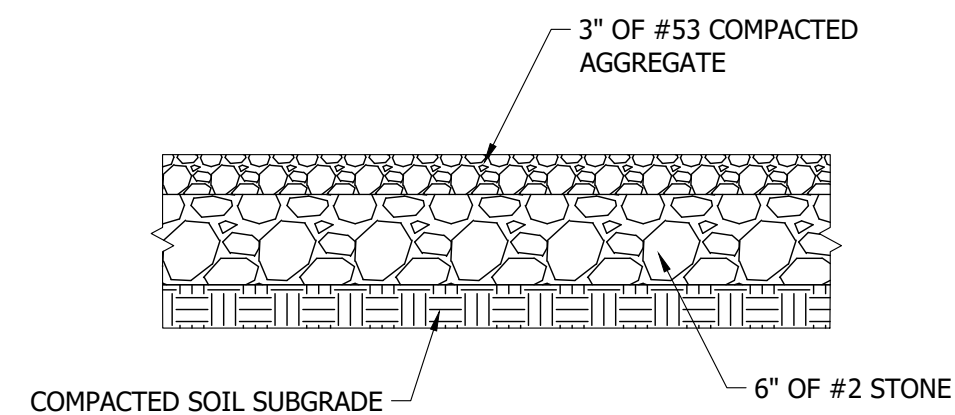


- NOTE:
1. ADJUSTING RINGS SHALL HAVE KEYWAYS FOR STABILITY AND HAVE MAXIMUM HEIGHT OF 12".
 2. MANHOLE STEPS SHALL BE POLYPROPYLENE, POLYPROPYLENE COATED STEEL REINFORCING OR APPROVED NON-CORROSIVE FIBERGLASS MATERIAL. COPOLYMER POLYPROPYLENE SHALL MEET ASTM D-4101 REINFORCED WITH DEFORMED 3/8" STEEL MEETING ASTM A-615, GRADE 60.
 3. MANHOLE CONFORMS TO ASTM C-478 JOINT CONFORMS TO ASTM C-443.

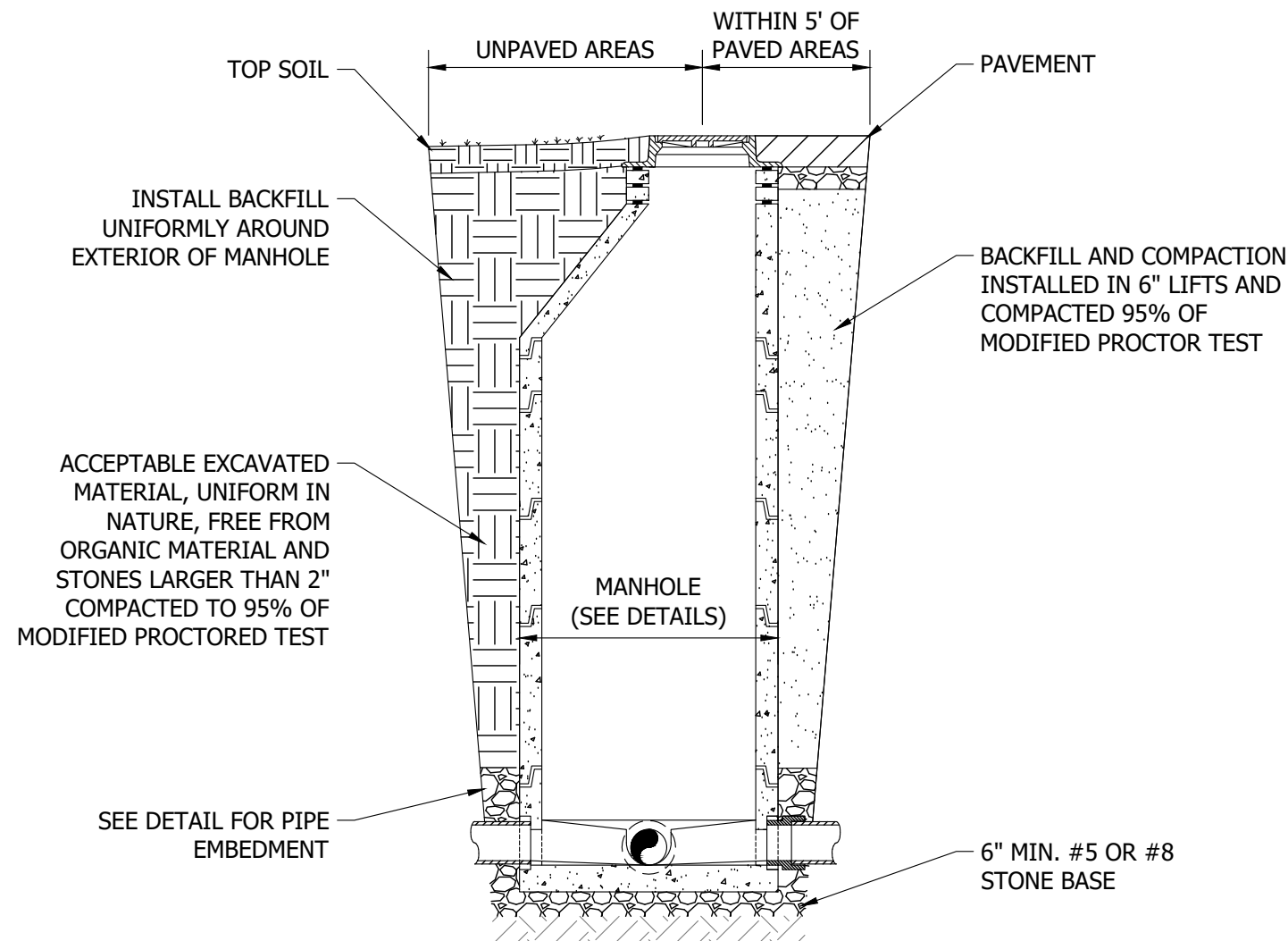
2 TYPICAL MANHOLE DETAIL NOT TO SCALE



3 BOLLARD DETAIL NOT TO SCALE

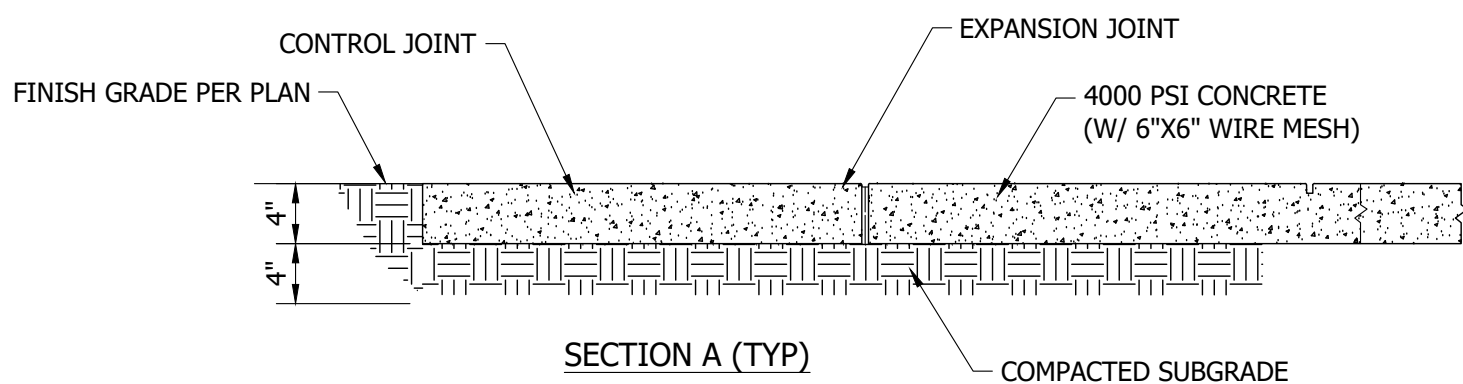


PIPE SIZE	3" TO 15"	18" TO 30"
BEDDING BELOW THE PIPE BARREL	4"	O.D. / 4

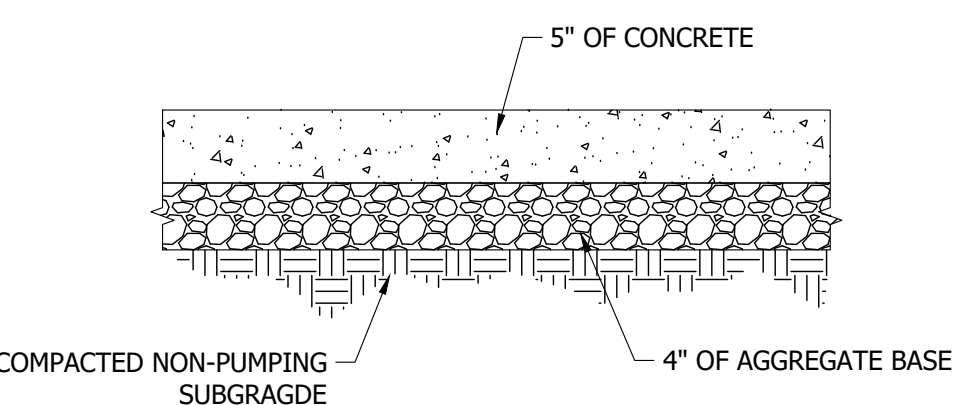


- NOTES:
1. PROVIDE CLEARANCE AROUND SIDEWALLS STRUCTURE FOR CONSTRUCTION OPERATIONS.
 2. IF GROUNDWATER IS ENCOUNTERED, PREVENT ACCUMULATION OF WATER IN EXCAVATION.
 3. WHERE POSSIBILITY EXISTS OF STRUCTURE BECOMING BOUYANT IN FLOODED EXCAVATION, ANCHOR STRUCTURE TO AVOID FLOTATION, AS APPROVED BY ENGINEER.

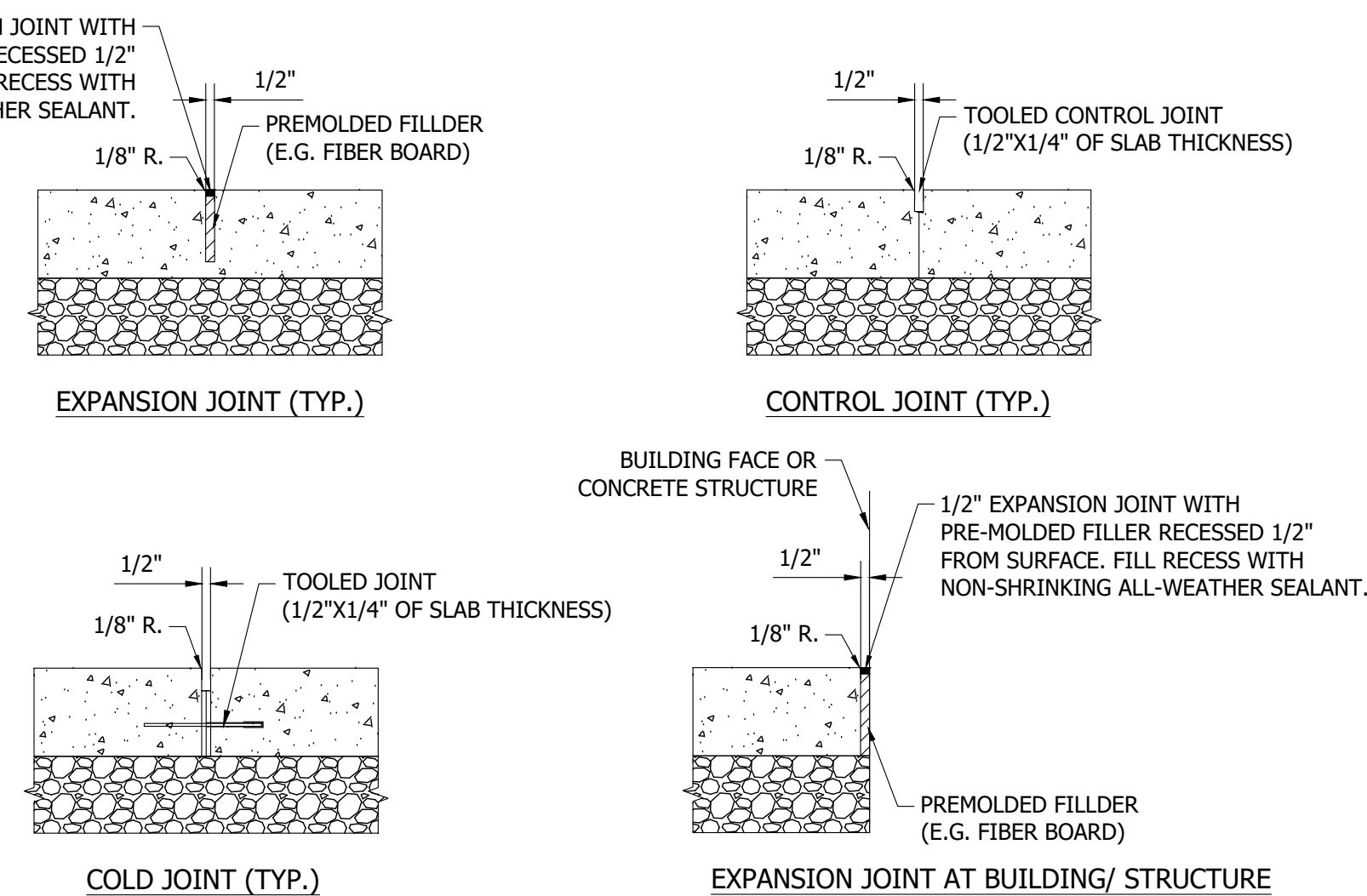
4 STANDARD MANHOLE BACKFILL DETAIL NOT TO SCALE



6 STONE PARKING AREA DETAIL NOT TO SCALE



7 STANDARD DUTY CONCRETE PAVEMENT NOT TO SCALE



NOTE:
ALL MATERIALS AND INSTALLATION PER APPLICABLE INDOT STANDARD SPECIFICATIONS, LATEST EDITION.

8 CONCRETE PAVING JOINT DETAILS NOT TO SCALE

#	Revision	Date

Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

Date: 02/03/2025

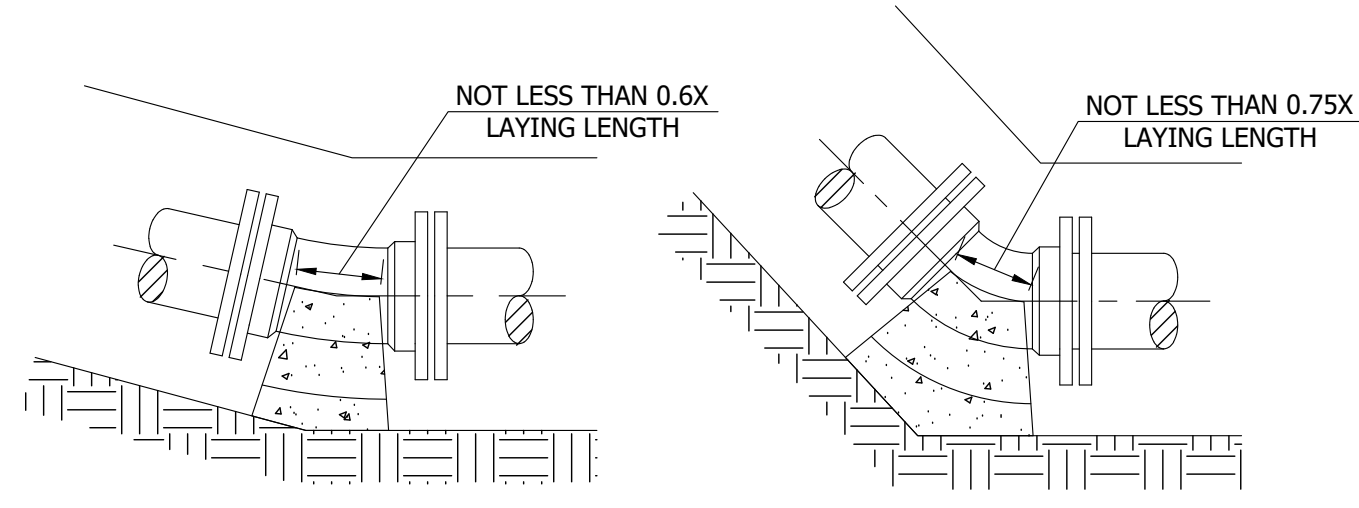


Richard Juan Paredes

PRINT DATE: 5/16/25
PLOT SCALE: 1:1
DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\ACAD\PLAN SHEETS\234001881 CONSTRUCTION DETAILS.DWG
EDIT DATE: 5/15/25 2:39 PM
EDITED BY: RHUNT

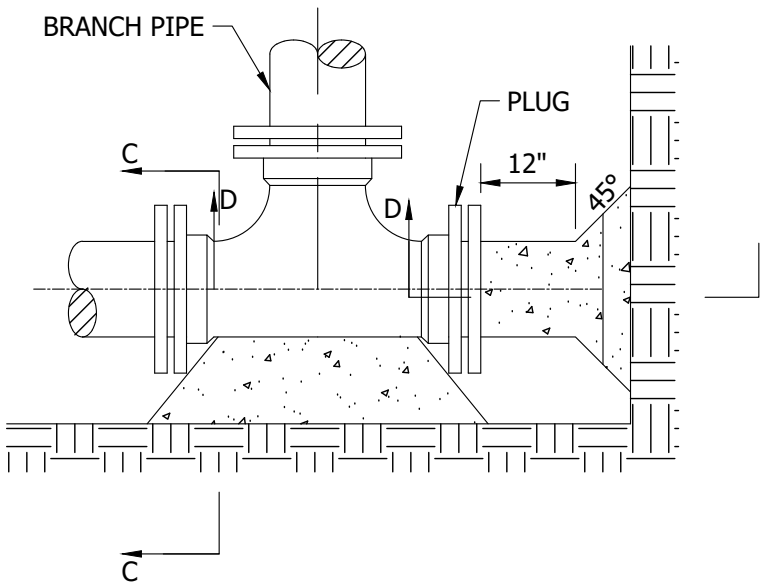
PIPE SIZE	BLOCKING FOR PLUGS AND BENDS				
	OUTSIDE FACE AREA (SQ. FT.)				
	PLUG	90° BEND	45° BEND	22.5° BEND	11.25° BEND
20"	16	25	14	7	4
16"	12	16	9	5	3
12"	7	9	5	3	2
10"	4	7	4	2	1
8"	3	5	3	2	1
6"	2	3	2	1	1
4" OR LESS	2	3	2	1	1

BLOCKING FOR TEES AND WYES		
SIZE OF RUN	SIZE OF BRANCH	OUTSIDE FACE AREA (SQ. FT.)
20" OR 16"	16"	12
	12"	7
	10"	6
	8"	5
12" OR LESS	12"	7
	10"	6
	8"	4
	6"	2
	4"	2

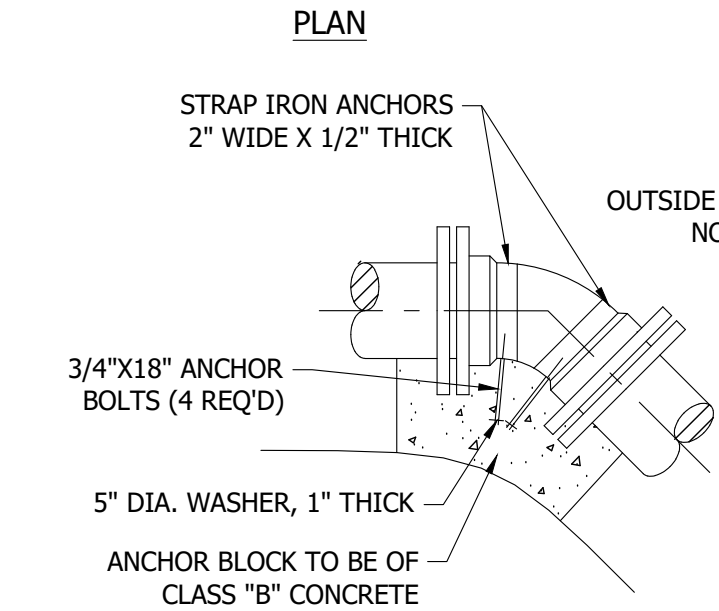


OUTSIDE FACE AREA NOT LESS THAN VALUES GIVEN IN TABLE FOR 22.5° & 11.25° BENDS.

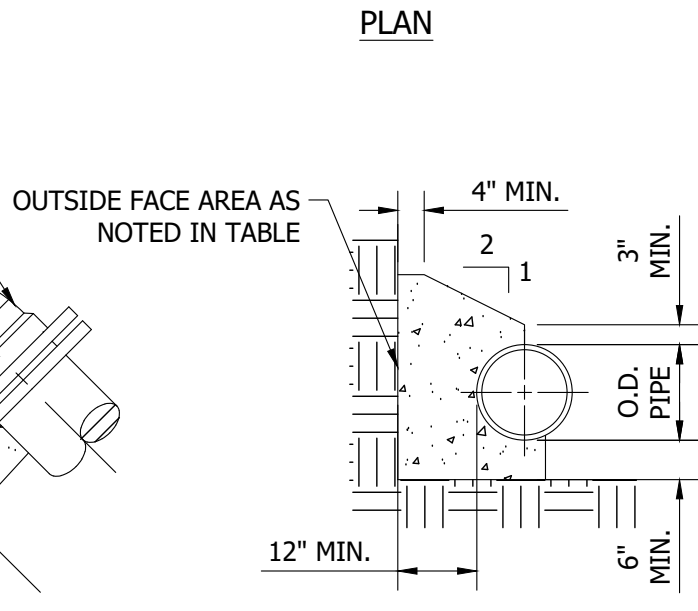
OUTSIDE FACE AREA NOT LESS THAN VALUES GIVEN IN TABLE FOR 90° & 45° BENDS.



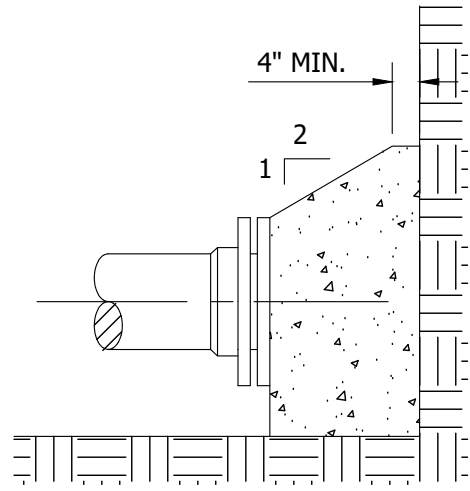
OUTSIDE FACE AREA NOT LESS THAN VALUES GIVEN IN TABLE FOR TEES, WYES & FOR PLUGS



DOWNWARD BEND



SECTION "C-C"

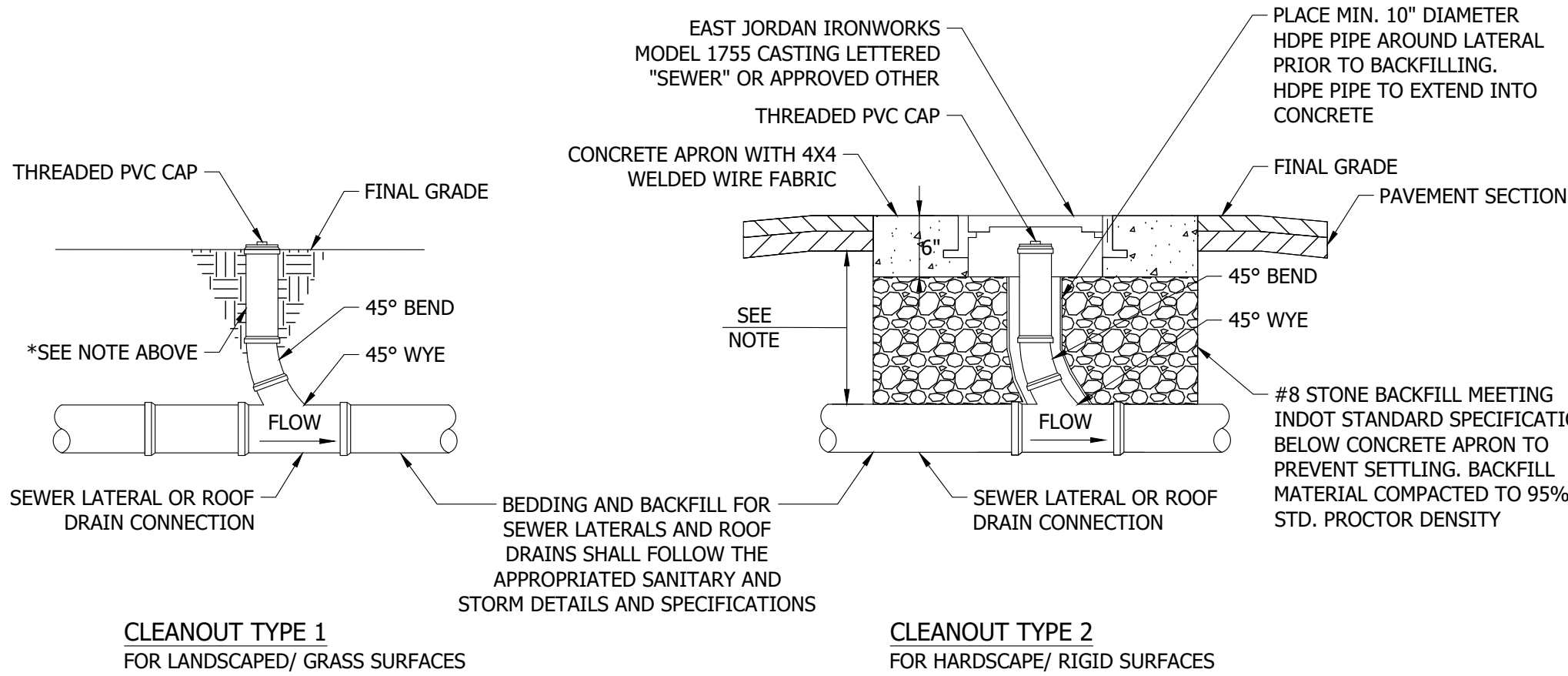


SECTION "D-D"

NOTE:
ALL CONCRETE BLOCKING TO CONSIST OF CLASS "B" CONCRETE POURED AGAINST FIRM GROUND.

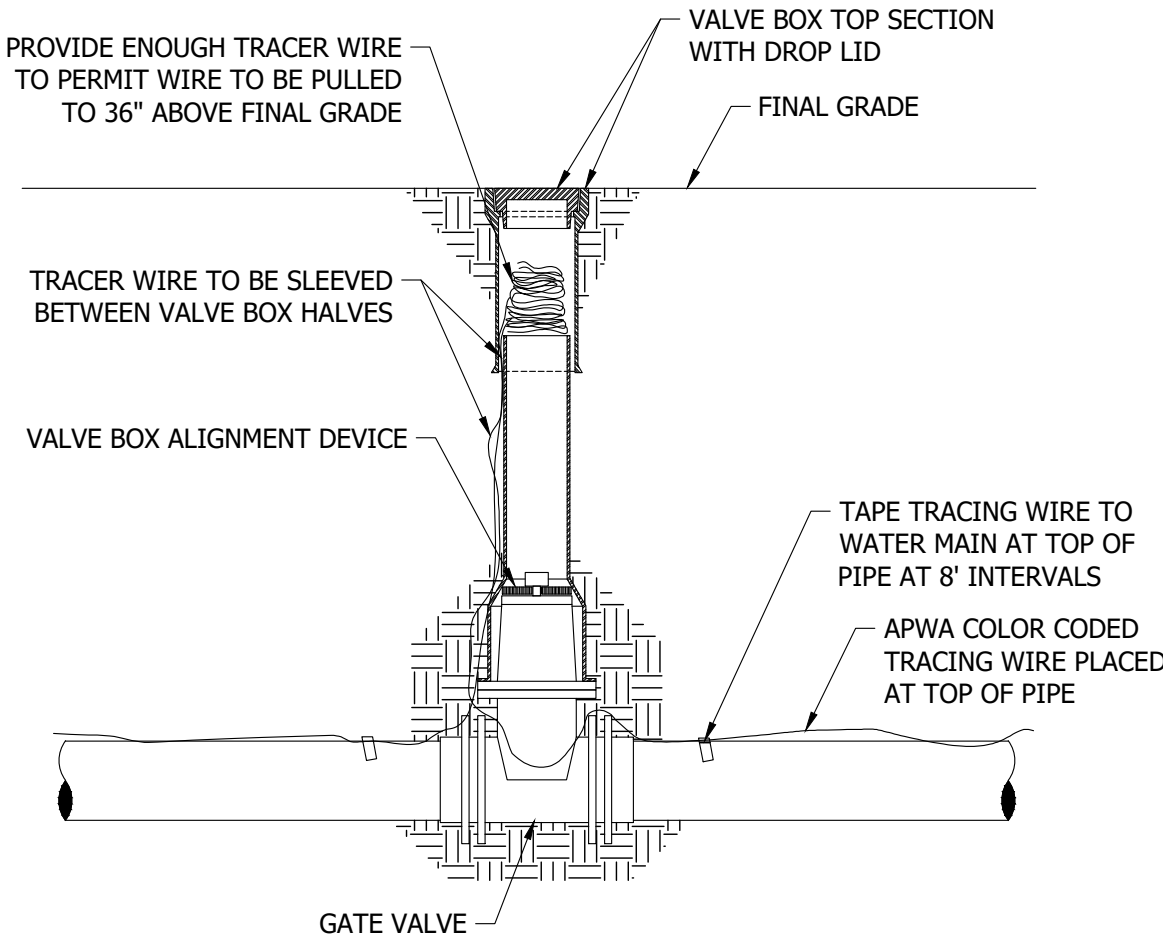
9 THRUST BLOCK DETAILS

NOT TO SCALE



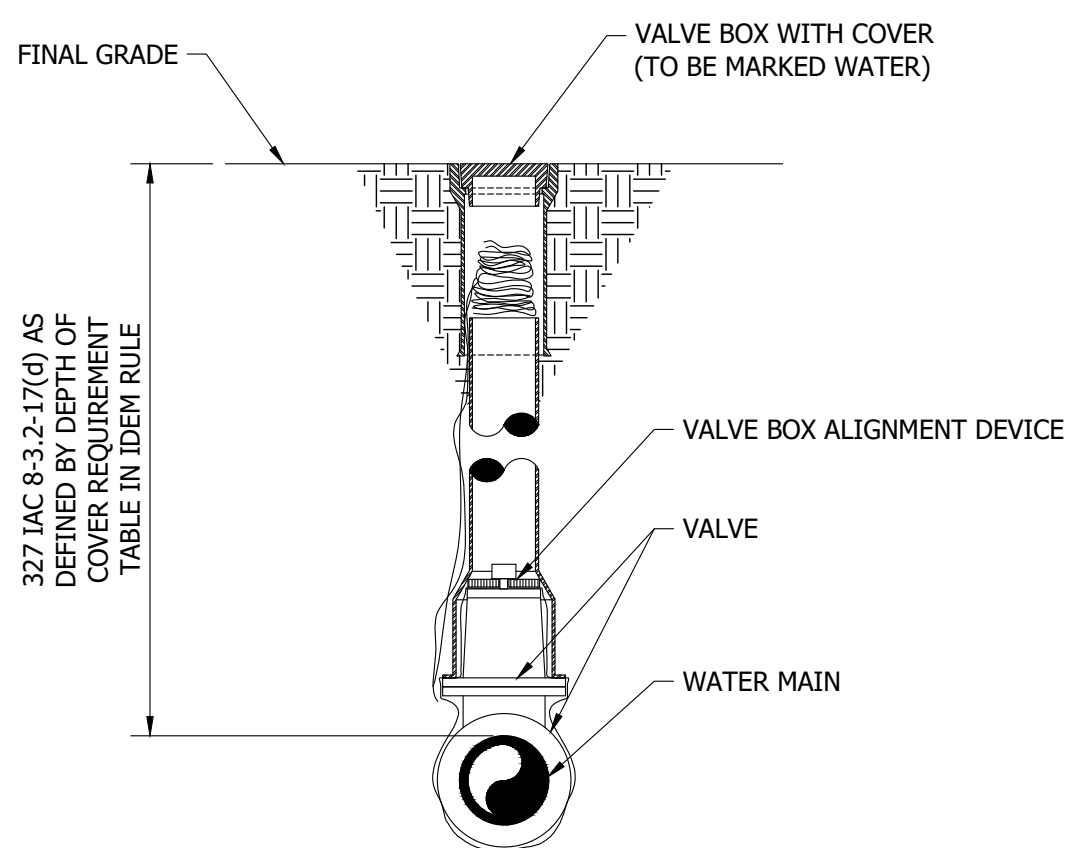
13 TYPICAL CLEANOUT DETAIL

NOT TO SCALE



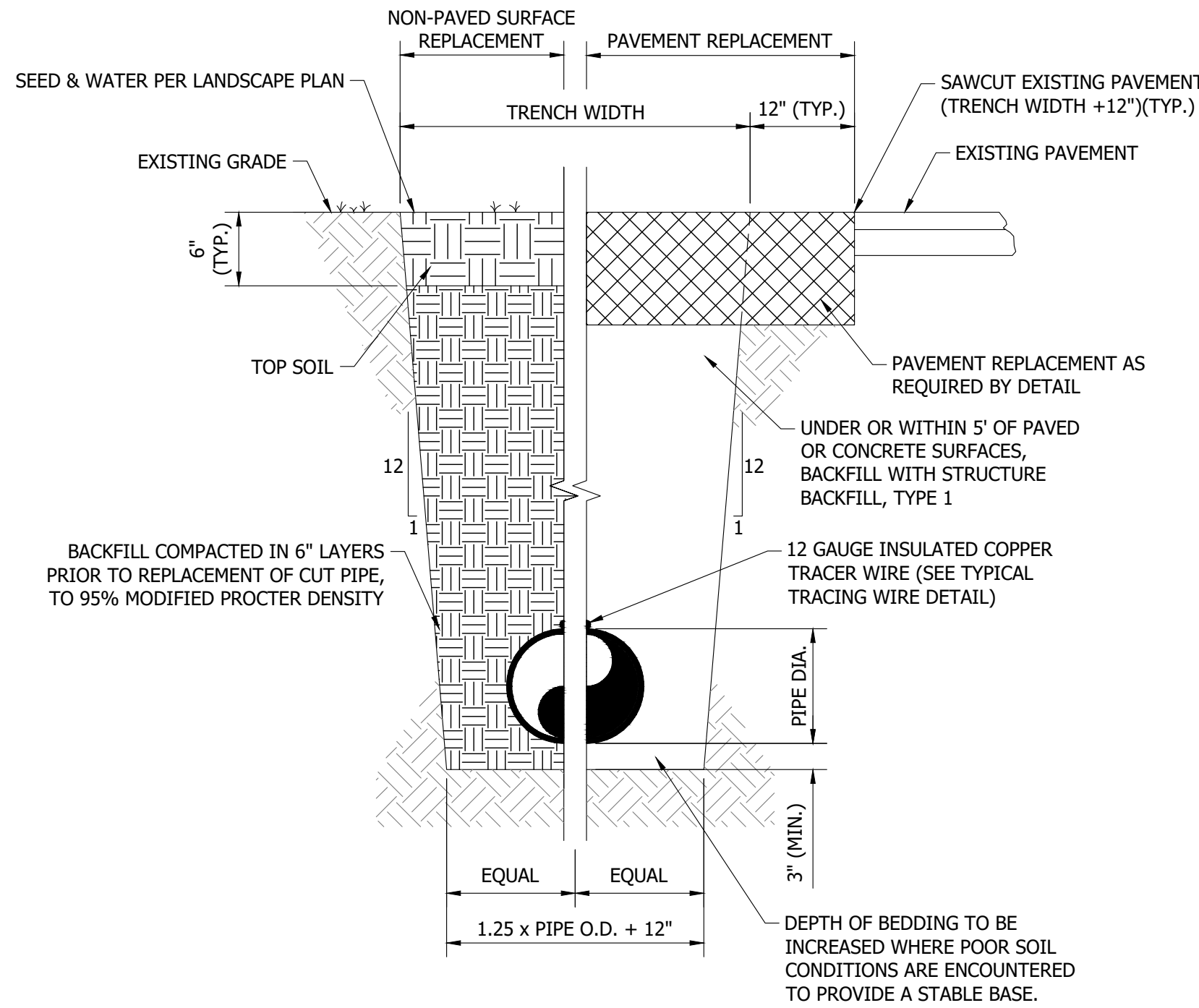
11 TRACER WIRE DETAIL

NOT TO SCALE



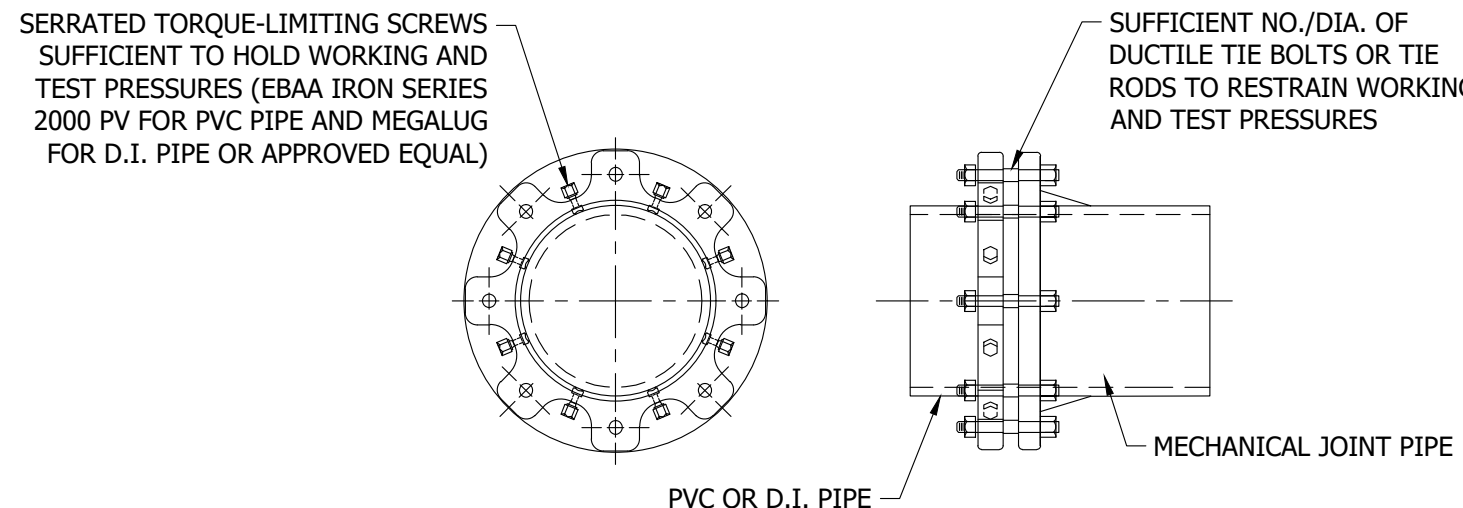
10 GATE VALVE DETAIL

NOT TO SCALE

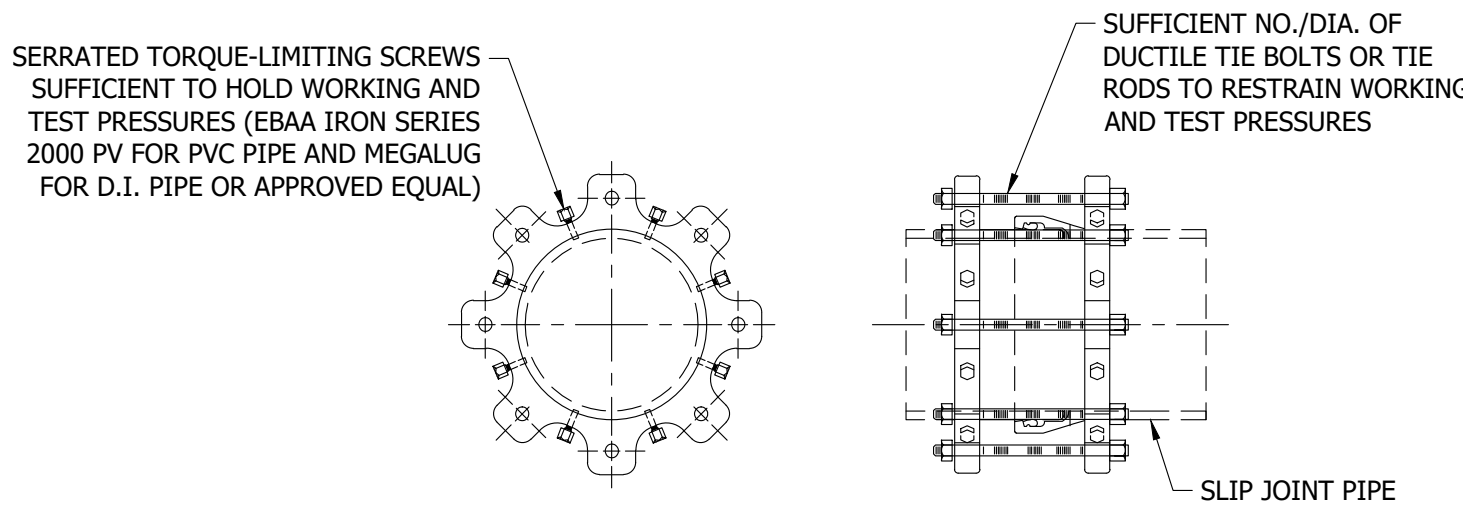


12 WATER MAIN TRENCH DETAIL

NOT TO SCALE



RESTRAINED JOINTS ON MECHANICAL JOINT PIPE AND FITTINGS



RESTRAINED JOINTS ON SLIP JOINT PIPE (USING GRIPPING TYPE RETAINERS)

RESTRAINED LENGTHS FOR 2" DIA. PIPE											
DEPTH OF PIPE	4'	4'	4'	4'	5'	5'	5'	5'	6'	6'	6'
BEND ANGLE	11.25°	22.5°	45°	90°	11.25°	22.5°	45°	90°	11.25°	22.5°	45°
RESTRAINED LENGTH	1'-10"	3'-8"	7'-7"	18'-2"	1'-6"	3'-2"	6'-7"	15'-9"	1'-5"	2'-9"	5'-8"
RESTRAINED LENGTHS FOR 4" DIA. PIPE											
DEPTH OF PIPE	4'	4'	4'	4'	5'	5'	5'	5'	6'	6'	6'
BEND ANGLE	11.25°	22.5°	45°	90°	11.25°	22.5°	45°	90°	11.25°	22.5°	45°
RESTRAINED LENGTH	3'-6"	7'-2"	14'-11"	36'-0"	3'-2"	6'-5"	13'-1"	31'-6"	2'-8"	5'-7"	11'-8"
RESTRAINED LENGTHS FOR 8" DIA. PIPE											
DEPTH OF PIPE	4'	4'	4'	4'	5'	5'	5'	5'	6'	6'	6'
BEND ANGLE	11.25°	22.5°	45°	90°	11.25°	22.5°	45°	90°	11.25°	22.5°	45°
RESTRAINED LENGTH	5'-0"	10'-0"	20'-9"	50'-0"	4'-4"	8'-9"	18'-2"	43'-10"	3'-11"	7'-10"	16'-3"
RESTRAINED LENGTHS FOR 4' DEPTH OF PIPE											
SIZE OF PIPE	2"	4"	8"	4"x2"	4"x2"						
FITTING TYPE	DEAD END	DEAD END	DEAD END	REDUCER	REDUCER						
RESTRAINED LENGTH	55'-0"	85'-0"	112'-0"	57'-0"	47'-0"						

14 WATER MAIN PIPE JOINT RESTRAINT DETAIL

NOT TO SCALE

RQAW

DCCM

PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

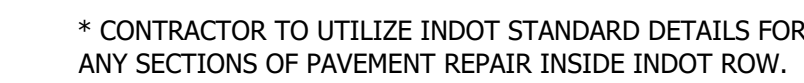
Date: 02/03/2025

RICHARD JUAN PAREDES
REGISTERED
No. 11900824
STATE OF INDIANA
PROFESSIONAL ENGINEER

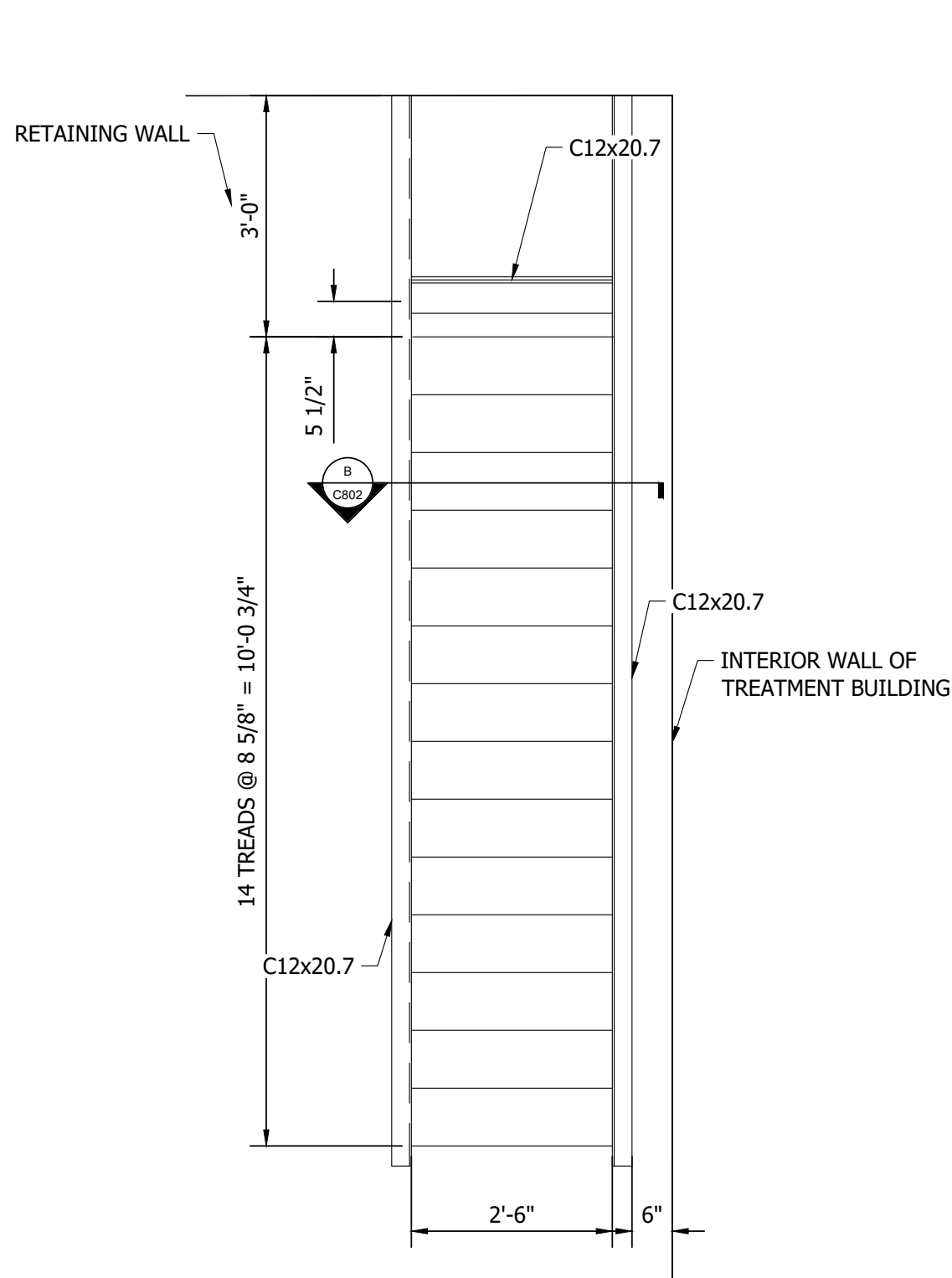
Richard Juan Paredes

CONSTRUCTION DETAILS

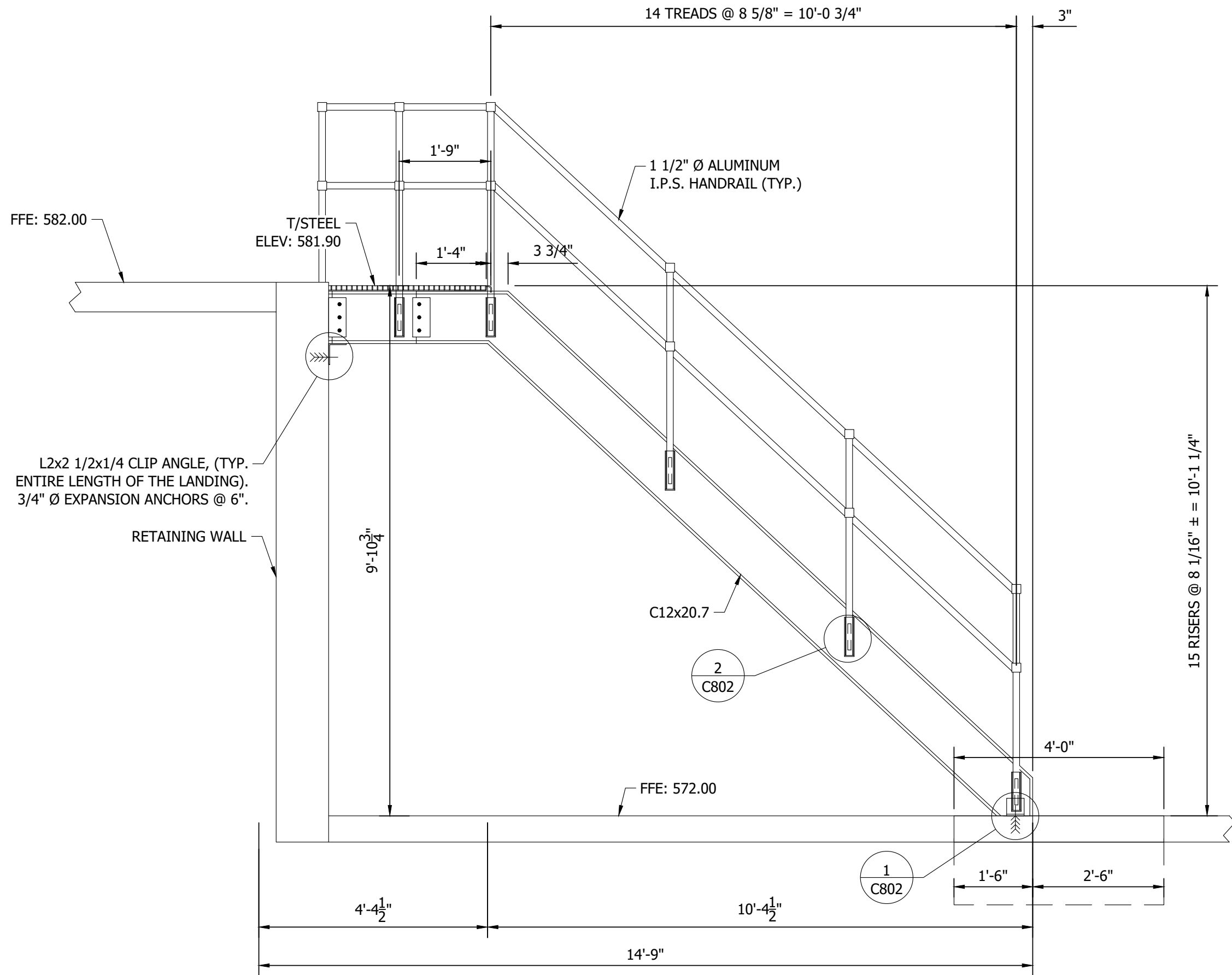
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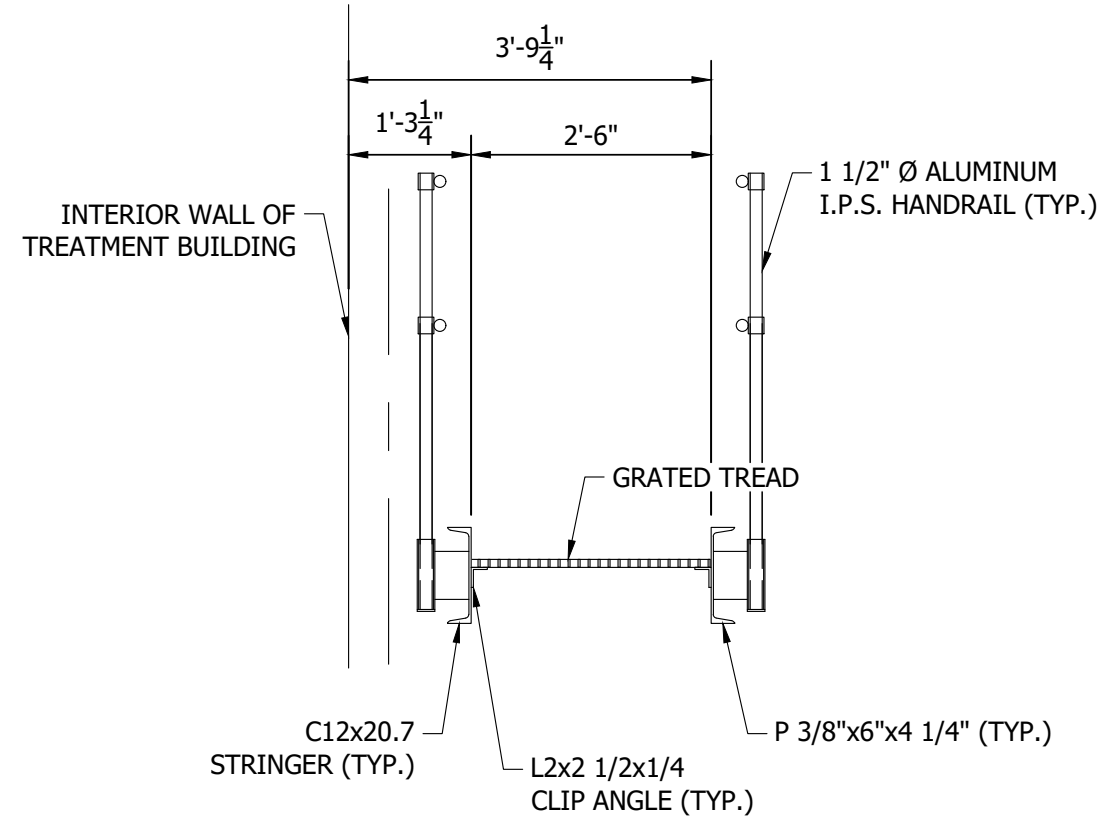
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EDITED BY: RHUNT



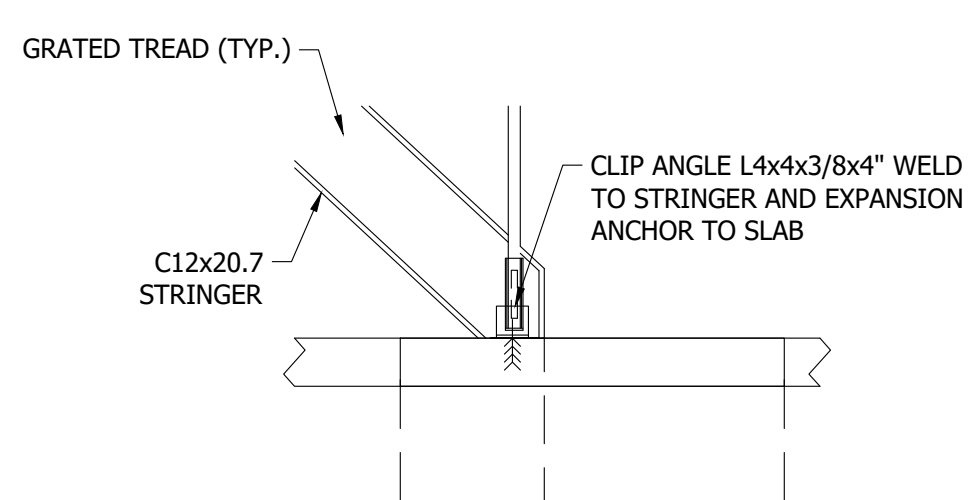
A STAIR AND PLATFORM FRAMING DETAIL
NOT TO SCALE



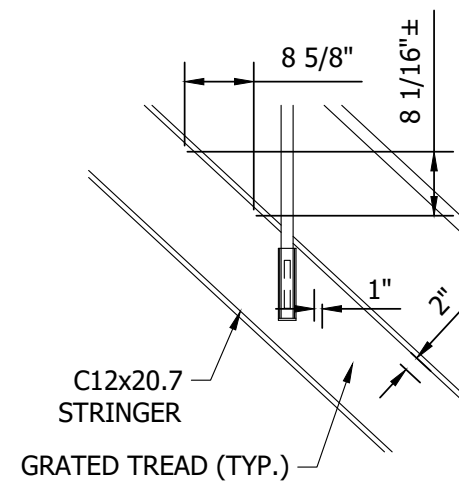
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NOT TO SCALE



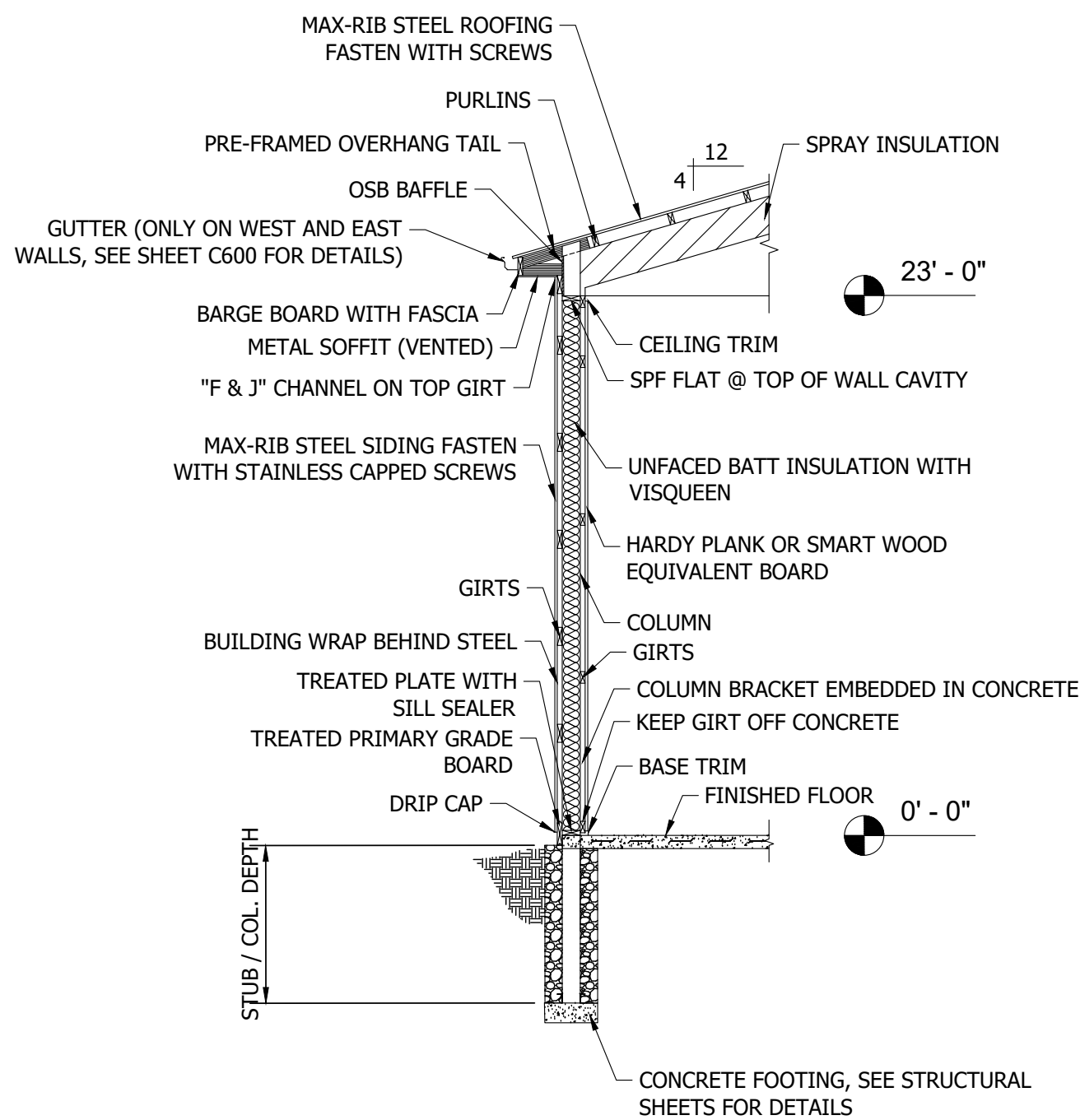
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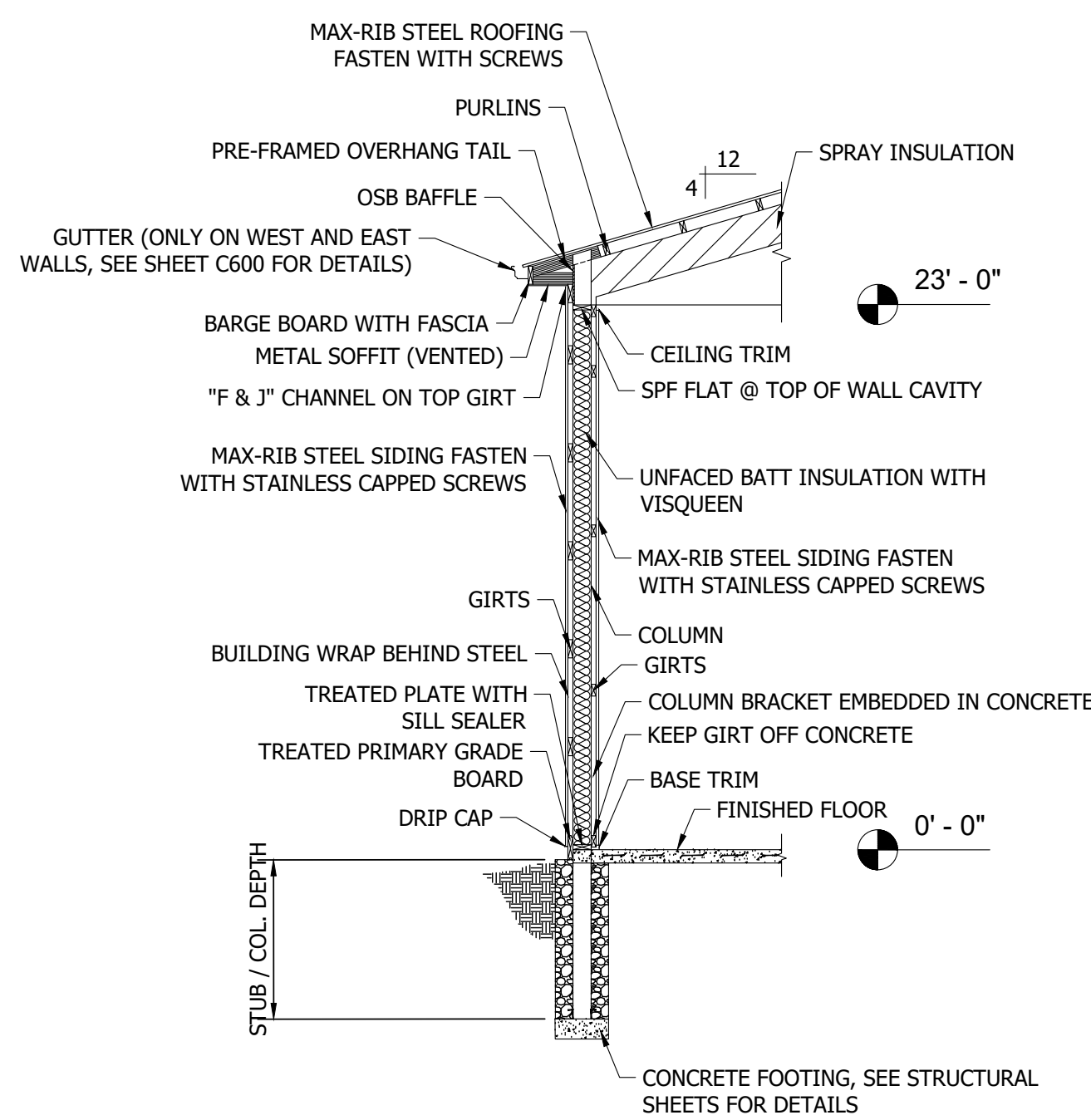
1 DETAIL
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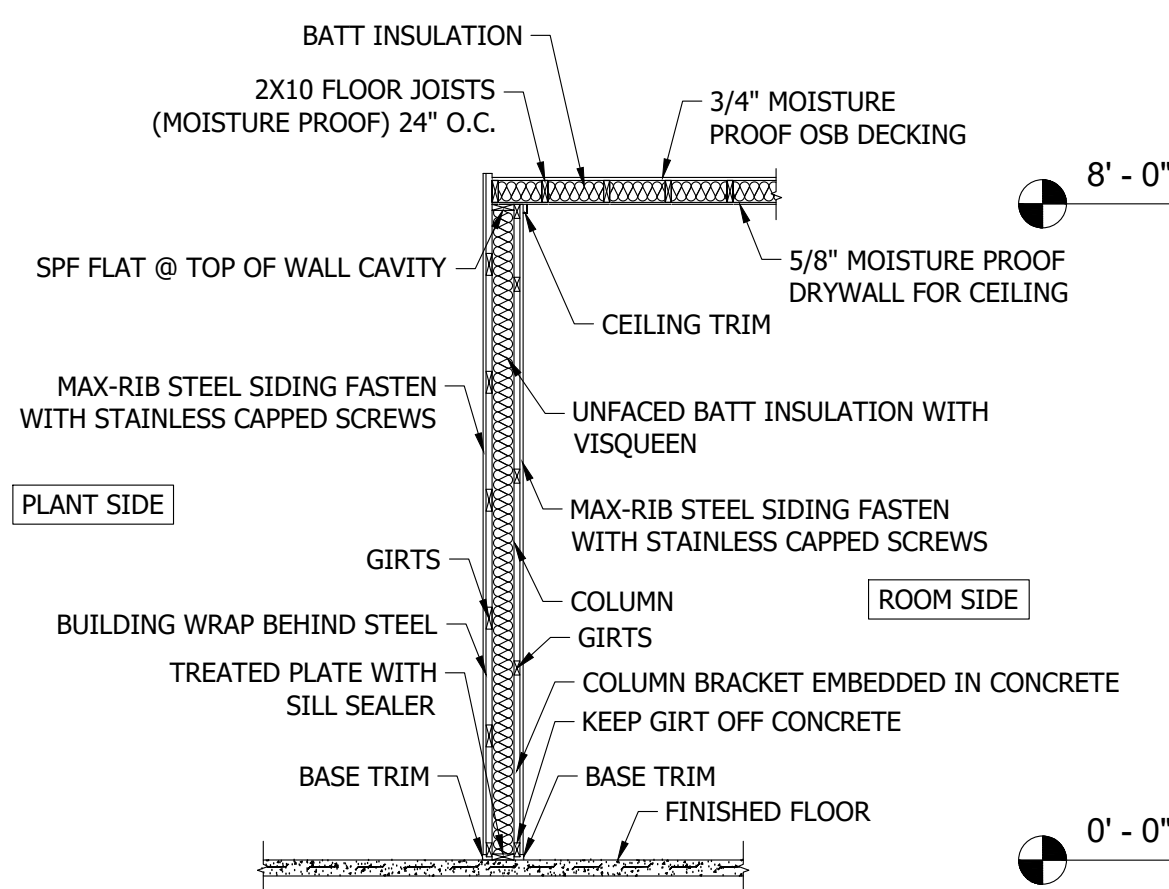
2 DETAIL
NOT TO SCALE



A-A TYPICAL EXTERIOR WALL SECTION DETAIL- ROOM SECTIONS
SCALE: 1/4" = 1'-0"



B-B TYPICAL EXTERIOR WALL SECTION DETAIL
SCALE: 1/4" = 1'-0"



A-B TYPICAL INTERIOR WALL SECTION DETAIL- ROOM SECTIONS
SCALE: 1/4" = 1'-0"

#	Revision	Date

Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

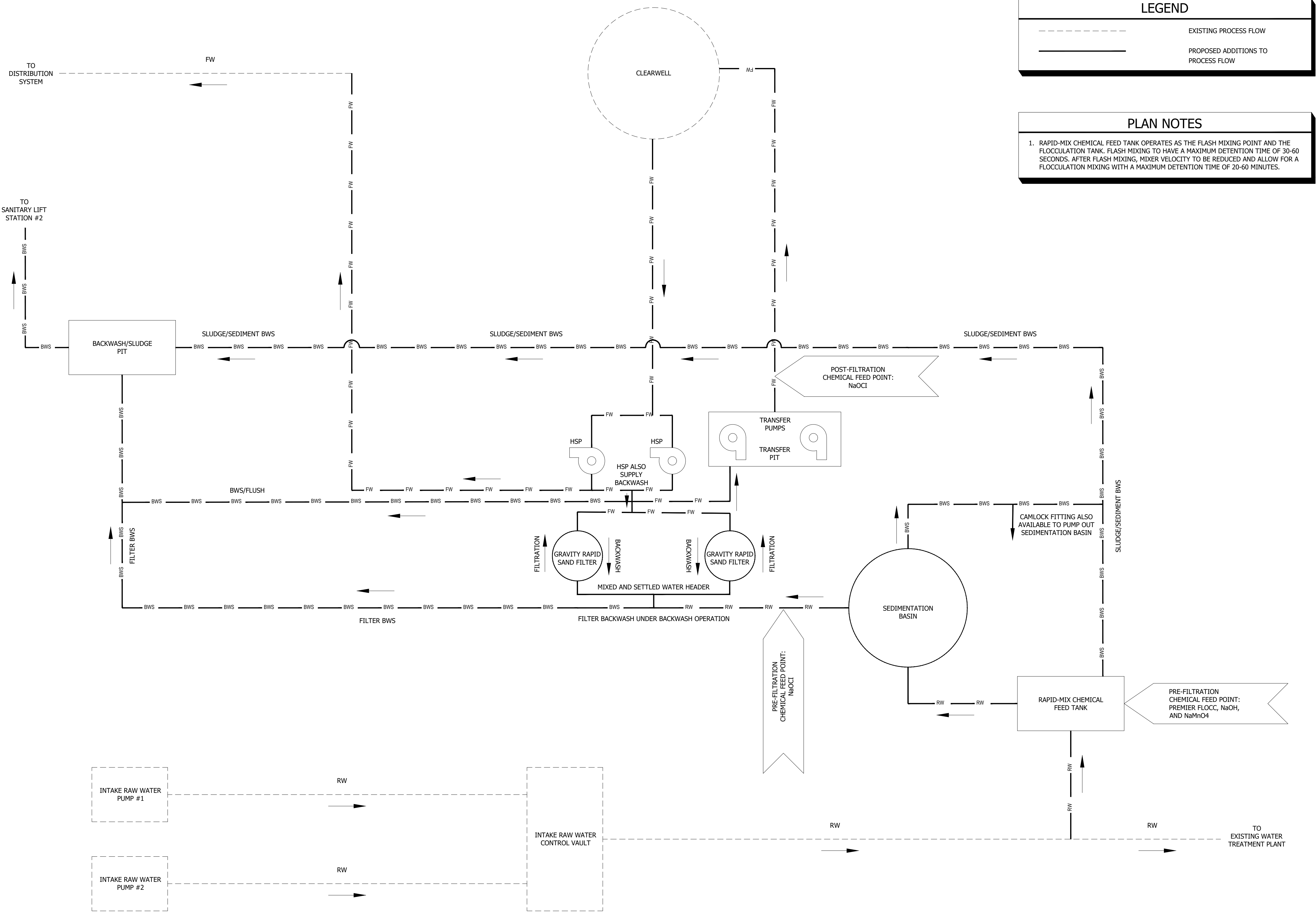
Checked By: RJPA

Date: 02/03/2025



Richard Juan Paredes

PRINT DATE: 5/16/25
PLOT SCALE: 1:1
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EDITED BY: RHUNT
EDT DATE: 5/16/25 - 2:04 PM



PERMIT SET

SALT CREEK ESTATES WATER TREATMENT PLANT IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1
Designed By: RJPA
Drawn By: RLH
Checked By: RJPA
Date: 02/03/2025

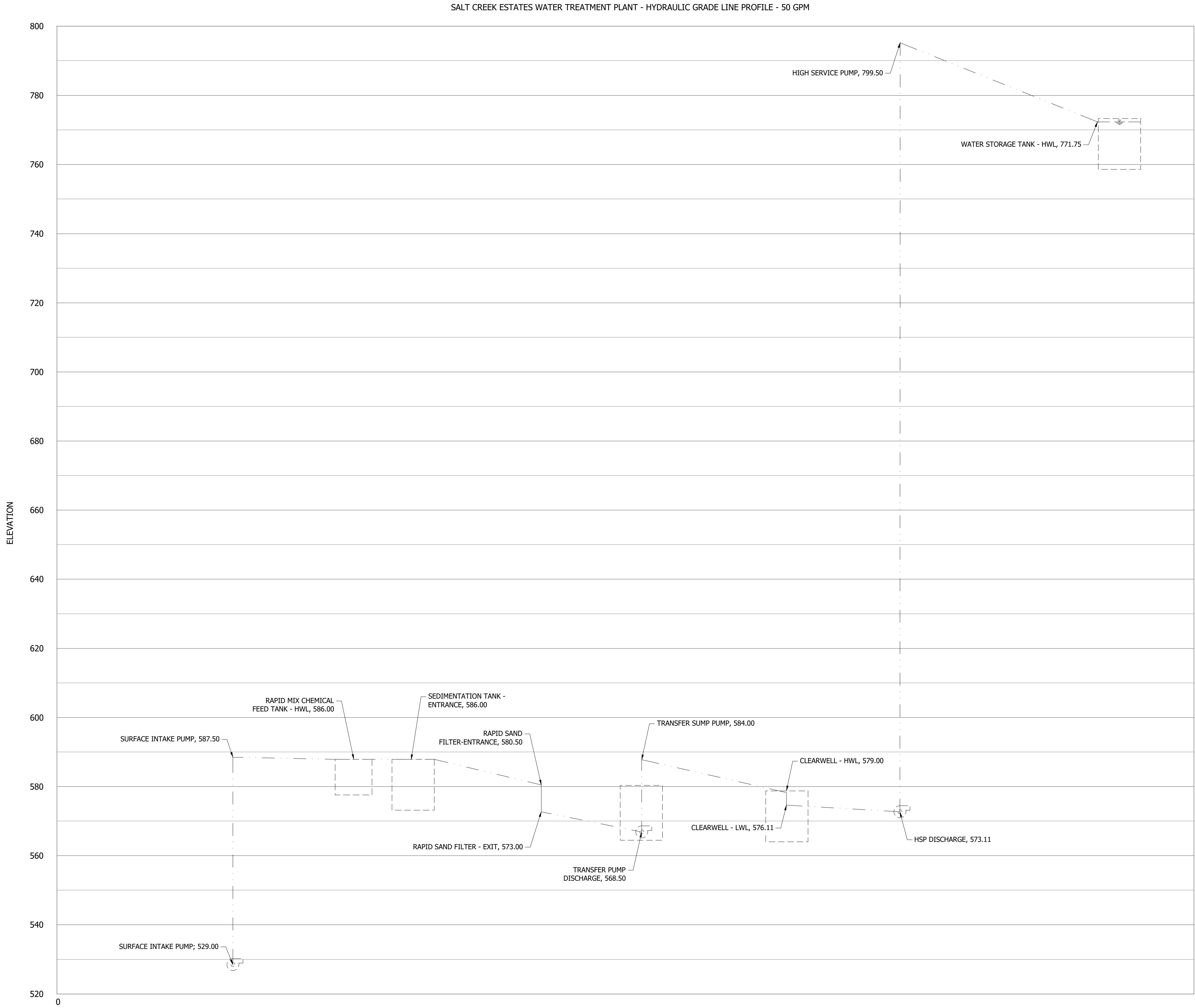
REGISTERED PROFESSIONAL ENGINEER
No. 11900824
STATE OF INDIANA
RICHARD JUAN PAREDES

Richard Juan Paredes



PROCESS FLOW DIAGRAM

PRINT DATE: 5/16/25
PLOT SCALE: 1:1
DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\5 ACAD\PLAN SHEETS\234001881 PROCESS FLOW DIAGRAM.DWG
EDITED BY: RHUNT
EDT DATE: 5/16/25 - 2:04 PM



PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

Date: 02/03/2025

Professional Engineer Seal: RICHARD JUAN PAREDES, No. 11900824, STATE OF INDIANA

Signature: Ricardo Juan Paredez

PRINT DATE: 5/16/25
PLOT SCALE: 1:1
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EDIT DATE: 5/16/25 2:38 PM
EDITED BY: RHUNT



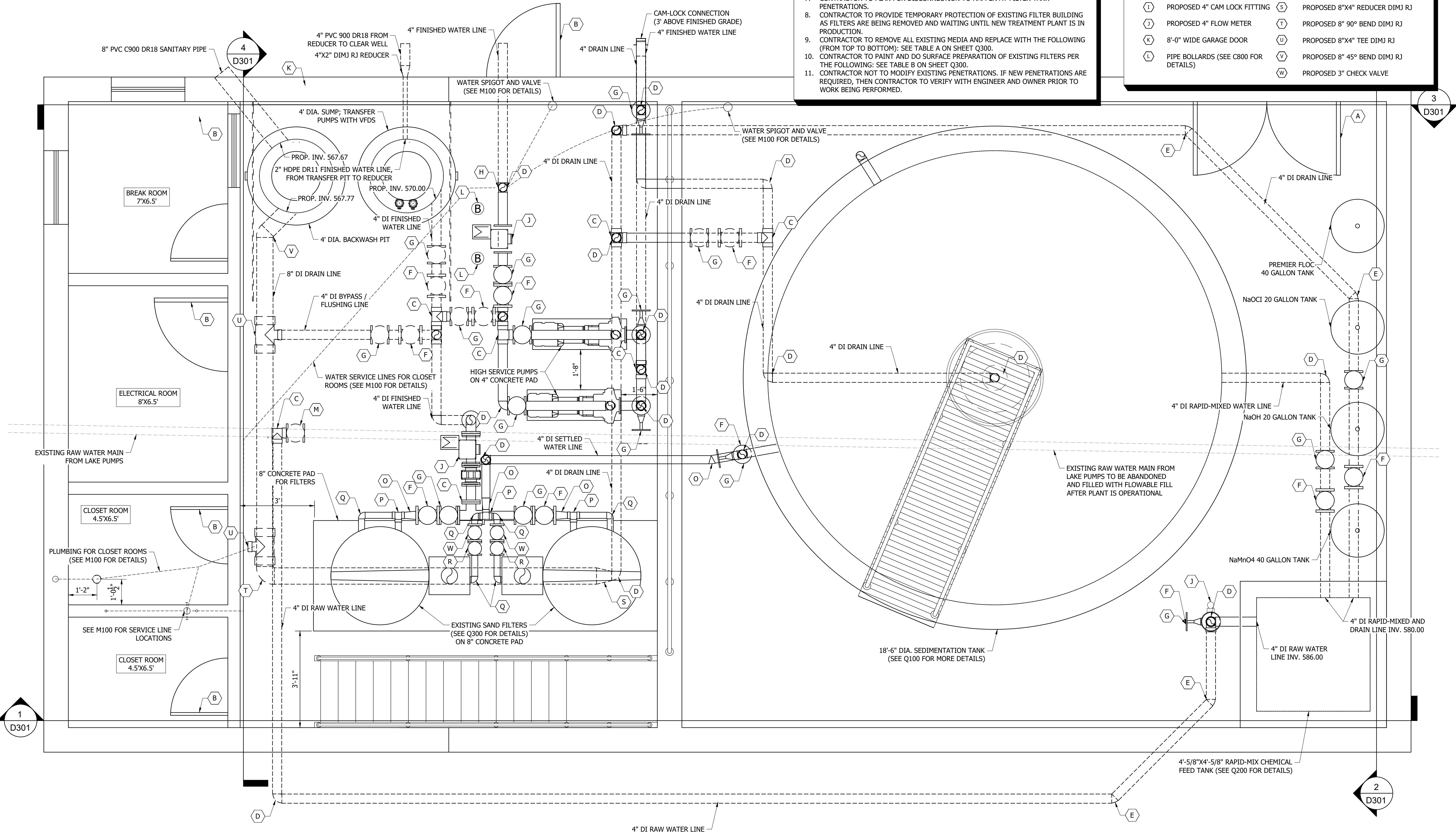
STRUCTURE DATA TABLE								
NAME	INVERT		CASTING			STRUCTURE		
	INLET	OUTLET	ELEVATION	TYPE	CASTING CONDITION	TYPE	DIAMETER	NOTE
TRANSFER PIT	570.00 4" DI	568.50 2" HDPE	572.00	X	CLOSED	PRECAST CONCRETE	48"	N/A
BACKWASH / SLUDGE PIT	567.77 4" DI	567.67 8" PVC	572.00	X	CLOSED	PRECAST CONCRETE	48"	SUMP 565.67

NOTES

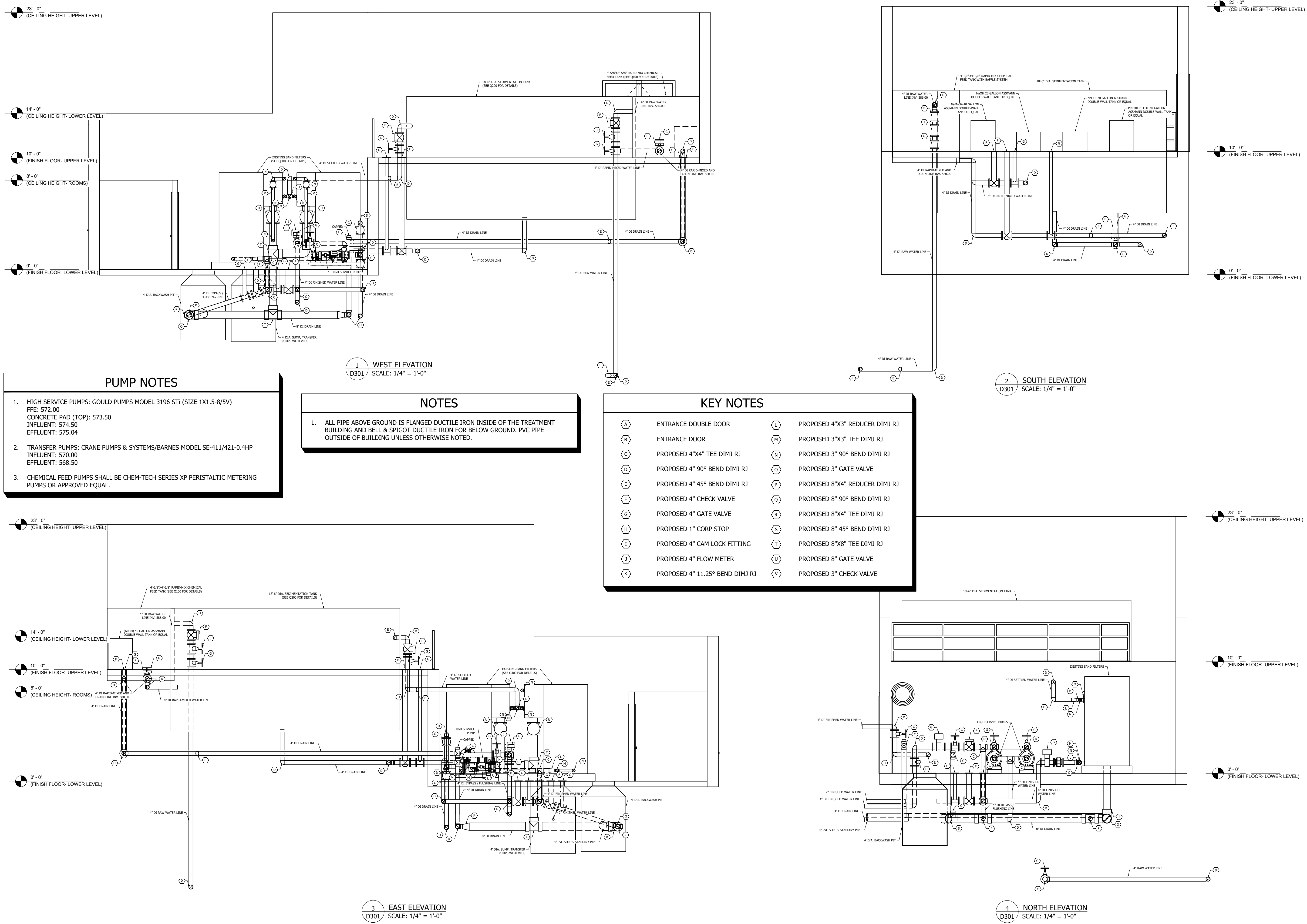
- ALL PIPE PENETRATIONS TO STRUCTURAL COMPONENTS TO BE WATER TIGHT CONNECTIONS VIA A LINK-SEAL SYSTEM, OR APPROVED EQUAL.
- HIGH SERVICE PUMPS TO BE SET ON A 2'-6" ELEVATED CONCRETE PAD.
- FILTERS TO BE SET ON A 1'-0" ELEVATED CONCRETE PAD, (SEE SHEET Q300 FOR DETAILS).
- ALL PIPE ABOVE GROUND IS FLANGED DUCTILE IRON INSIDE OF THE TREATMENT BUILDING AND BELL & SPIGOT DUCTILE IRON FOR BELOW GROUND. PVC PIPE OUTSIDE OF BUILDING UNLESS OTHERWISE NOTED.
- CONTRACTOR TO COORDINATE WITH OWNER SCHEDULE OF REMOVAL AND INSTALLATION OF EXISTING FILTERS TO SECURE WATER PRODUCTION DURING CONSTRUCTION. PHASED APPROACH IS RECOMMENDED.
- CONTRACTOR TO REMOVE, INSPECT, PATCH, CLEAN (SAND-BLAST MIN.), PATCH (AS NECESSARY), REPLACEMENT OF UNDERDRAIN, AND PAINT FILTER VESSEL, SPLITTER TROUGH, AND DIVERTER BOX. EXISTING CONNECTING PIPING, CONNECTORS AND VALVING TO BE REMOVED AND DISPOSED.
- CONTRACTOR TO PLAN FOR DISCONNECTION TO HAPPEN AT FILTER TANK PENETRATIONS.
- CONTRACTOR TO PROVIDE TEMPORARY PROTECTION OF EXISTING FILTER BUILDING AS FILTERS ARE BEING REMOVED AND WAITING UNTIL NEW TREATMENT PLANT IS IN PRODUCTION.
- CONTRACTOR TO REMOVE ALL EXISTING MEDIA AND REPLACE WITH THE FOLLOWING (FROM TOP TO BOTTOM): SEE TABLE A ON SHEET Q300.
- CONTRACTOR TO PAINT AND DO SURFACE PREPARATION OF EXISTING FILTERS PER THE FOLLOWING: SEE TABLE B ON SHEET Q300.
- CONTRACTOR NOT TO MODIFY EXISTING PENETRATIONS. IF NEW PENETRATIONS ARE REQUIRED, THEN CONTRACTOR TO VERIFY WITH ENGINEER AND OWNER PRIOR TO WORK BEING PERFORMED.

KEY NOTES

- | | |
|--|---|
| (A) ENTRANCE DOUBLE DOOR | (W) PROPOSED GATE VALVE - EXISTING WATER MAIN (CONTRACTOR TO VERIFY SIZING PRIOR TO PROCUREMENT AND FILL-IN WITH GROUT ONCE PLANT IS OPERATIONAL) |
| (B) ENTRANCE DOOR | (X) PROPOSED 4" 11.25° BEND DIMJ RJ |
| (C) PROPOSED 4"x4" TEE DIMJ RJ | (Y) PROPOSED 4"x3" REDUCER DIMJ RJ |
| (D) PROPOSED 4" 90° BEND DIMJ RJ | (Z) PROPOSED 3"x3" TEE DIMJ RJ |
| (E) PROPOSED 4" 45° BEND DIMJ RJ | (AA) PROPOSED 3" 90° BEND DIMJ RJ |
| (F) PROPOSED 4" CHECK VALVE | (AB) PROPOSED 3" GATE VALVE |
| (G) PROPOSED 4" GATE VALVE | (AC) PROPOSED 8"x4" REDUCER DIMJ RJ |
| (H) PROPOSED 1" CORP STOP | (AD) PROPOSED 8" 90° BEND DIMJ RJ |
| (I) PROPOSED 4" CAM LOCK FITTING | (AE) PROPOSED 8"x4" TEE DIMJ RJ |
| (J) PROPOSED 4" FLOW METER | (AF) PROPOSED 8" 45° BEND DIMJ RJ |
| (K) 8'-0" WIDE GARAGE DOOR | (AG) PROPOSED 3" CHECK VALVE |
| (L) PIPE BOLLARDS (SEE C800 FOR DETAILS) | |



PRINT DATE: 5/20/25
PLOT SCALE: 1:186.91
EDIT DATE: 5/16/25 - 2:38 PM
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RQAW

DCCM

PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

Date: 02/03/2025

RICHARD JUAN PAREDES
REGISTERED
No. 11900824
STATE OF INDIANA
PROFESSIONAL ENGINEER

Richard Juan Paredes

1/4" 0 1/4" 1/2"
GRAPHIC SCALE

PROCESS PLAN AND
PIPING SECTION VIEWS

D301

PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, TN 37248

PERMIT SET

#	Revision	Date

Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

Date: 02/03/2025

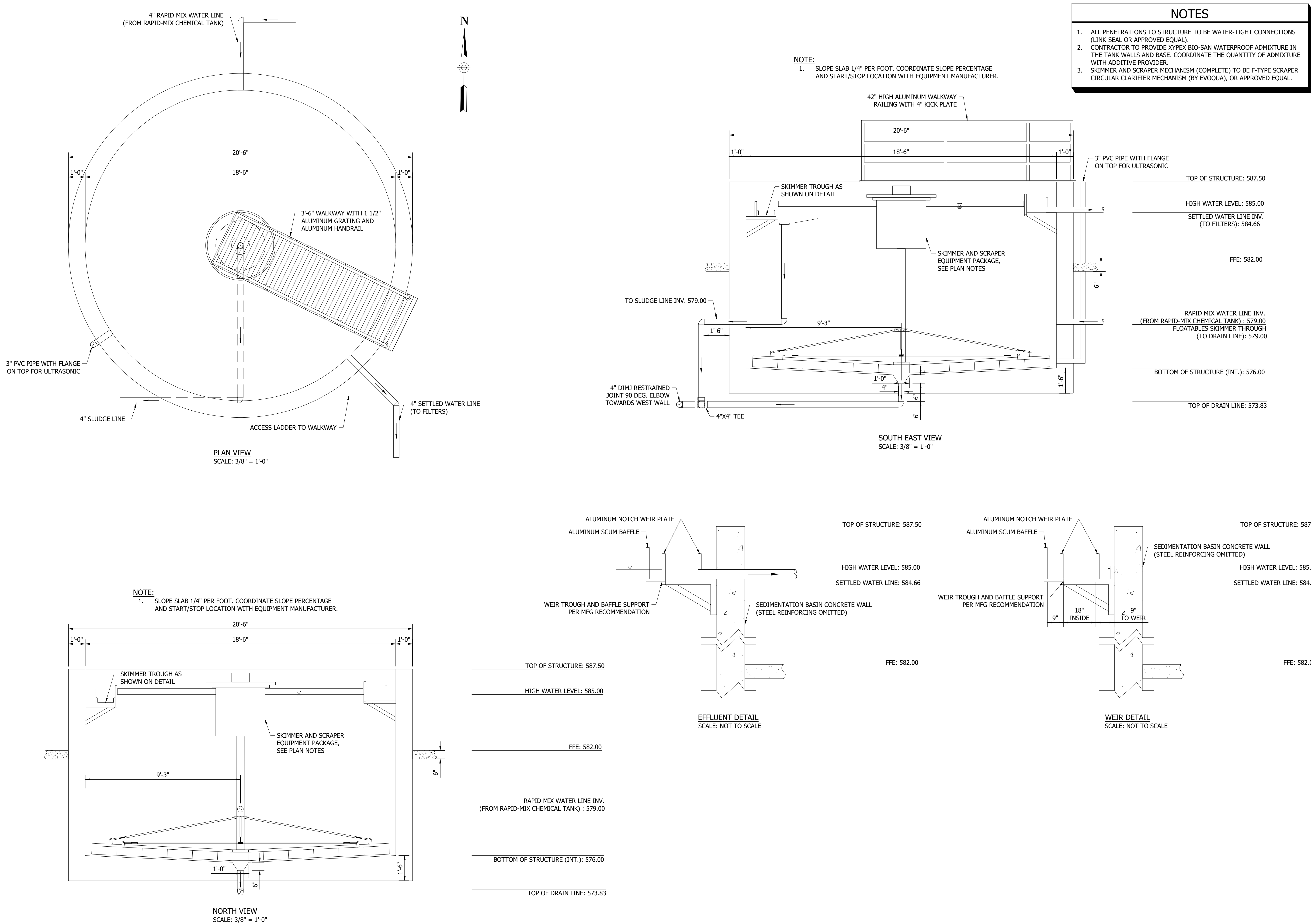


Alcalde Juan Carlos Munguía



SEDIMENTATION TANK DETAIL VIEWS

Q100



SALT CREEK ESTATES WATER TREATMENT PLANT IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

PERMIT SET

#	Revision	Date

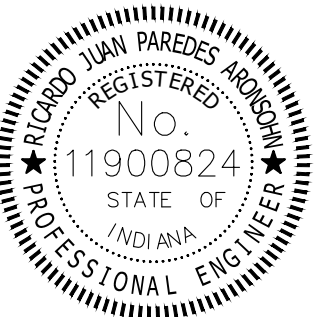
Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

Date: 02/03/2025

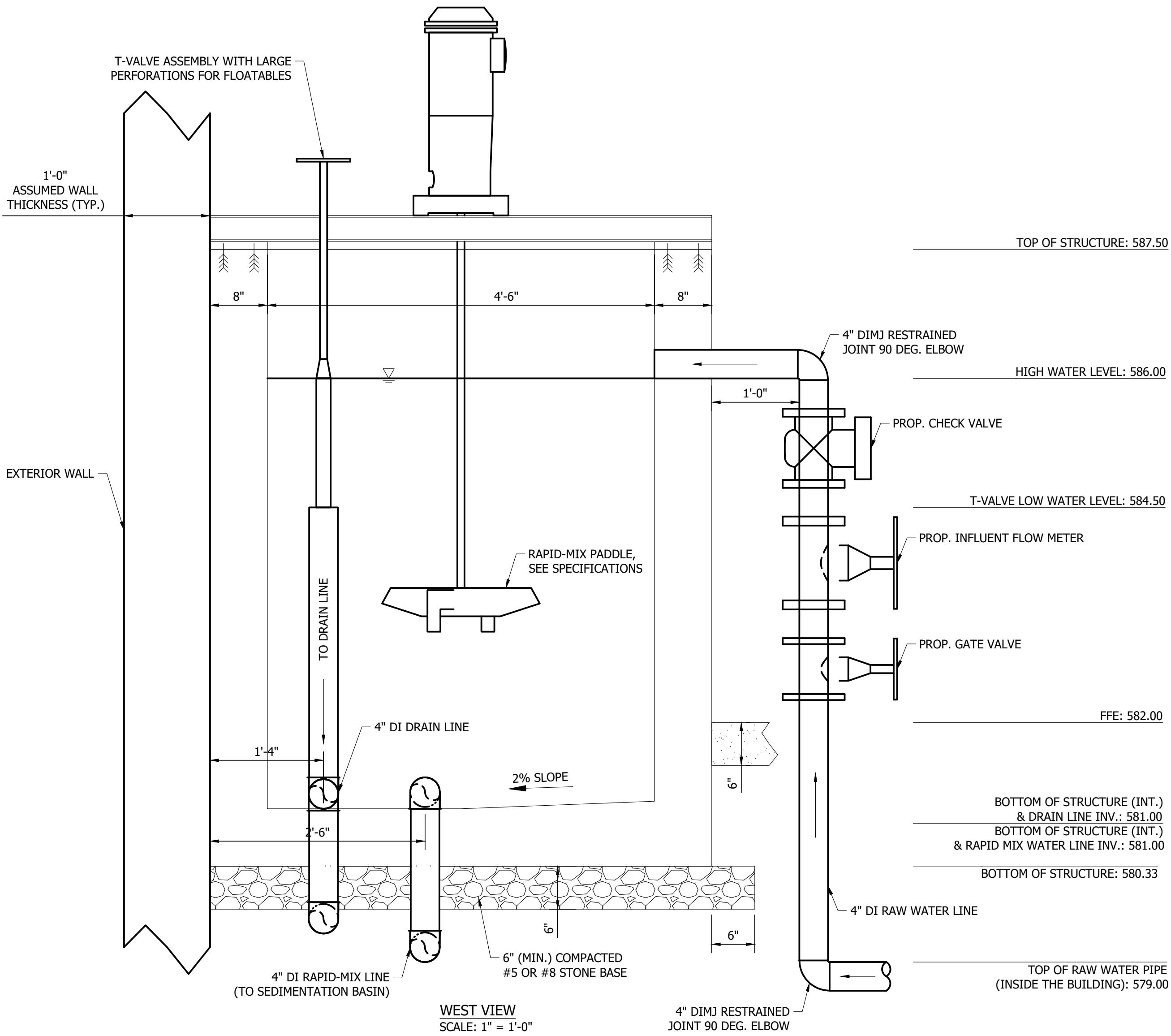
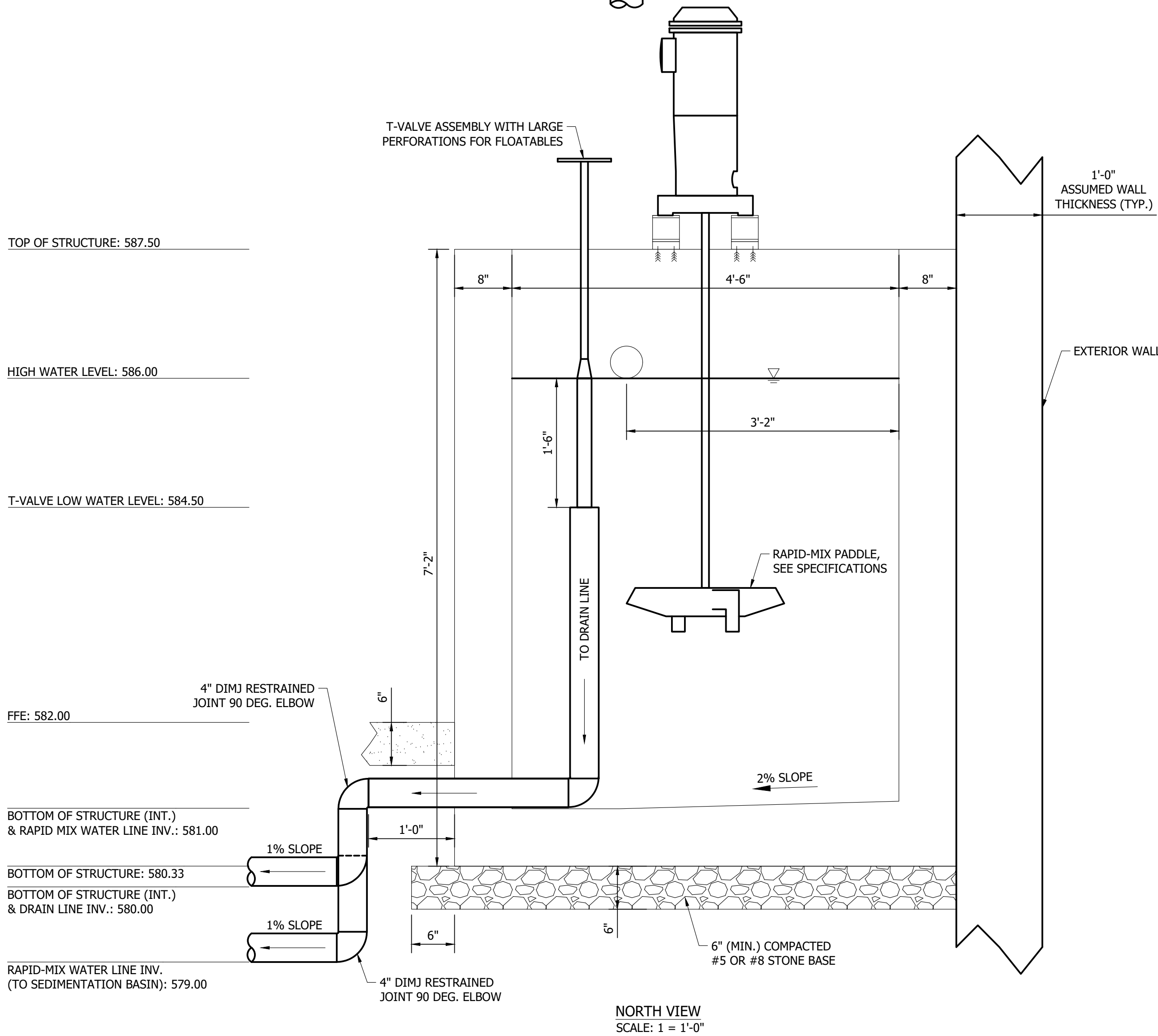
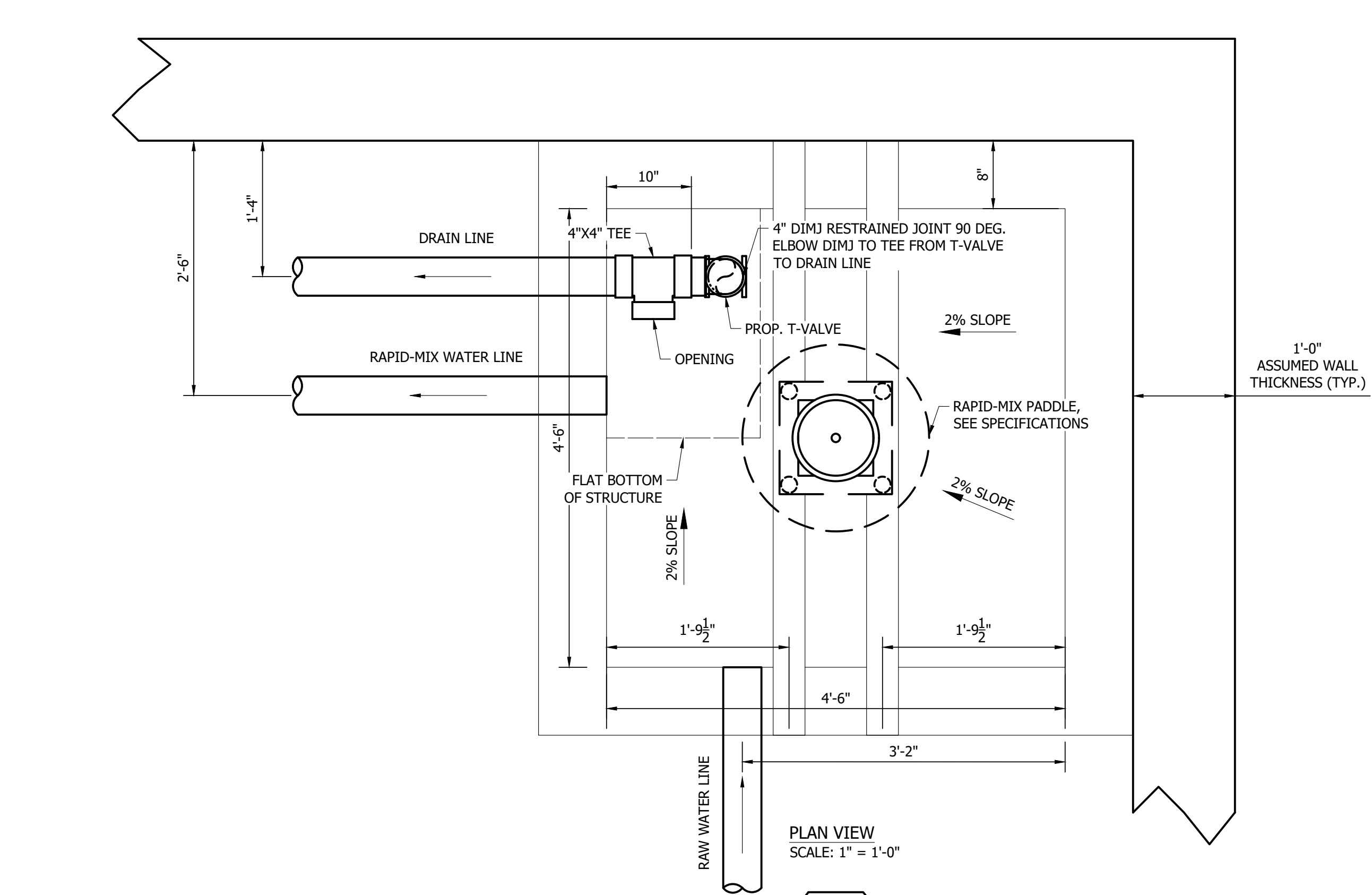


Ricardo José Laredo Mancera



RAPID MIX CHEMICAL FEEDING TANK DETAIL VIEWS

Q200

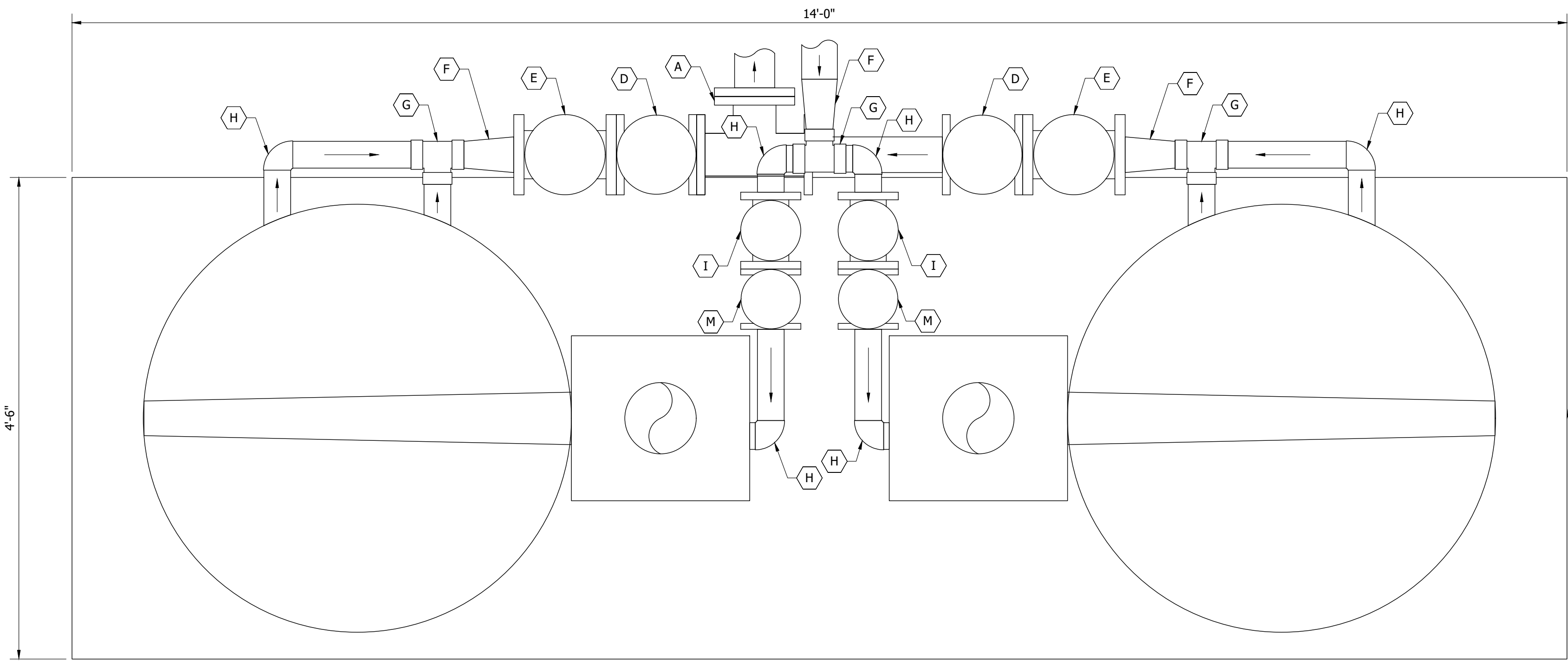


1. ALL PENETRATIONS TO STRUCTURE TO BE WATER-TIGHT CONNECTIONS (LINK-SEAL OR APPROVED EQUAL).
2. CONTRACTOR TO PROVIDE XYPEX BIO-SAN WATERPROOF ADMIXTURE IN THE TANK WALLS AND BASE. COORDINATE THE QUANTITY OF ADMIXTURE WITH ADDITIVE PROVIDER.

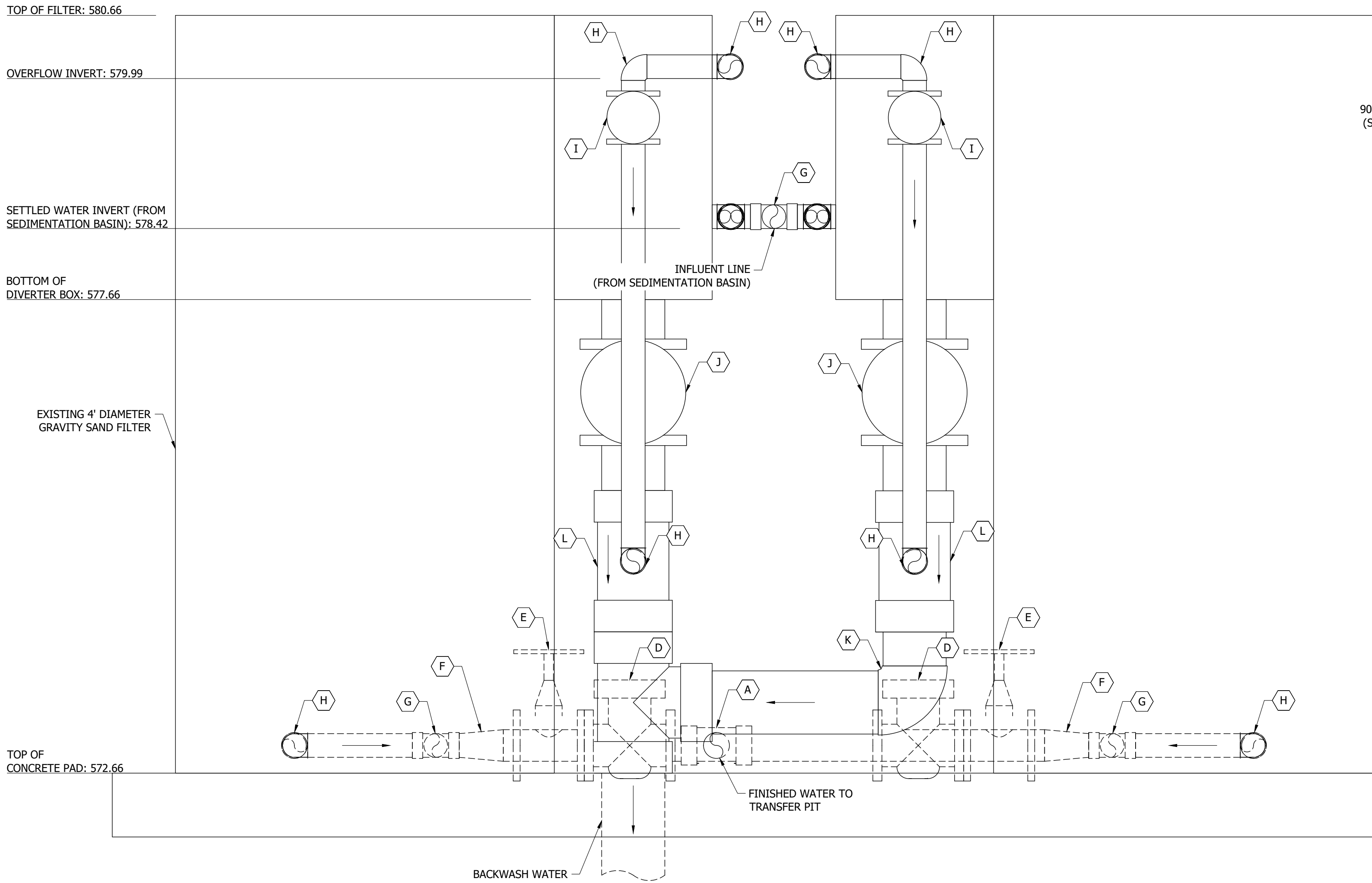
NOTES

1. ALL PENETRATIONS TO STRUCTURE TO BE WATER-TIGHT CONNECTIONS (LINK-SEAL OR APPROVED EQUAL).
2. CONTRACTOR TO PROVIDE XYPEX BIO-SAN WATERPROOF ADMIXTURE IN THE TANK WALLS AND BASE. COORDINATE THE QUANTITY OF ADMIXTURE WITH ADDITIVE PROVIDER.

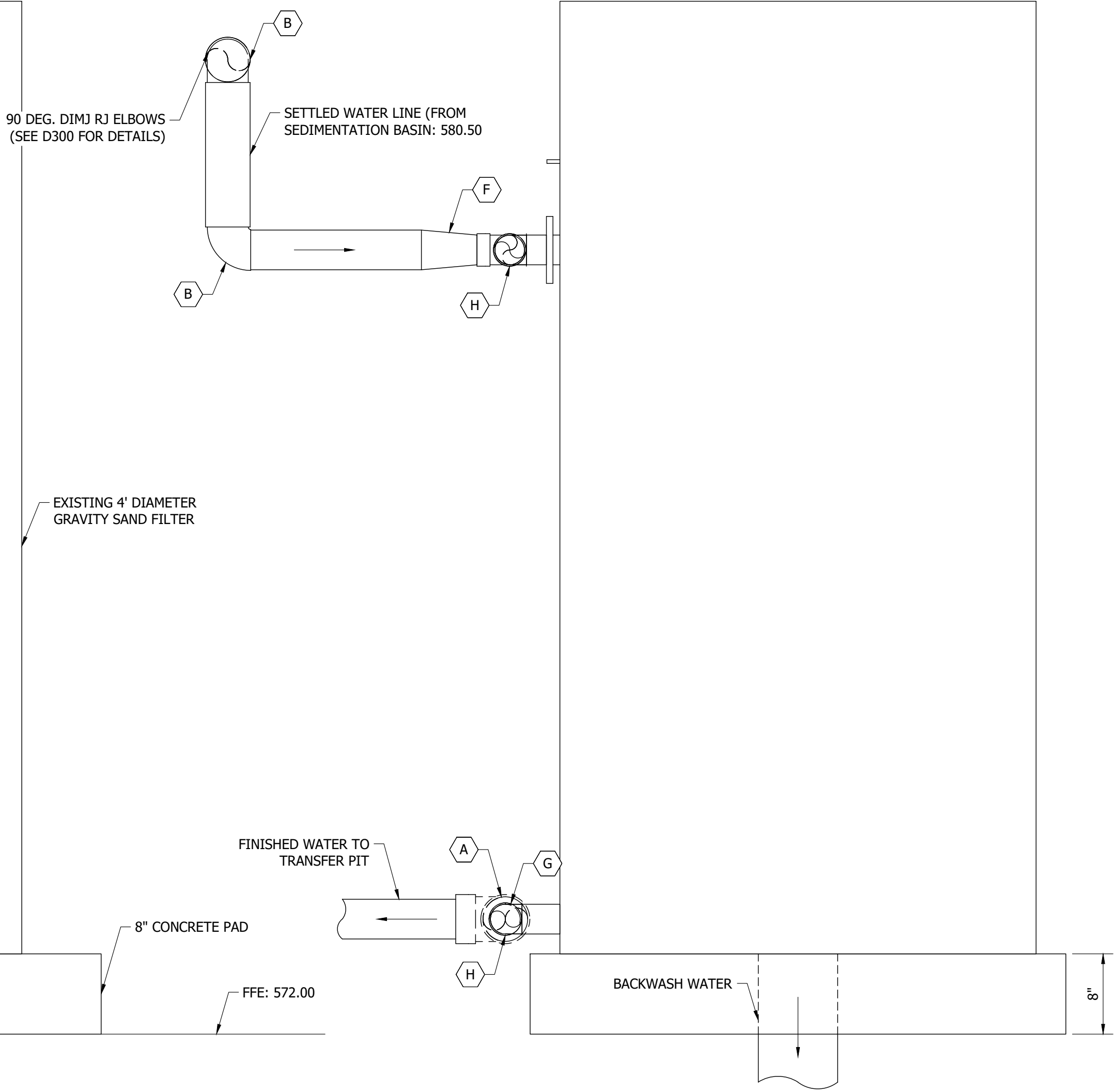
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PLAN VIEW
SCALE: NOT TO SCALE



FRONT ELEVATION
SCALE: NOT TO SCALE



RIGHT SIDE ELEVATION
SCALE: NOT TO SCALE

KEY NOTES

- | | | | |
|-----|--------------------------------|-----|------------------------------|
| (A) | PROPOSED 4"X4" TEE DIMJ RJ | (H) | PROPOSED 3" 90° BEND DIMJ RJ |
| (B) | PROPOSED 4" 90° BEND DIMJ RJ | (I) | PROPOSED 3" GATE VALVE |
| (C) | PROPOSED 4" 45° BEND DIMJ RJ | (J) | PROPOSED 8" GATE VALVE |
| (D) | PROPOSED 4" CHECK VALVE | (K) | PROPOSED 8" 90° BEND DIMJ RJ |
| (E) | PROPOSED 4" GATE VALVE | (L) | PROPOSED 8"X3" TEE DIMJ RJ |
| (F) | PROPOSED 4"X3" REDUCER DIMJ RJ | (M) | PROPOSED 3" CHECK VALVE |
| (G) | PROPOSED 3"X3" TEE DIMJ RJ | | |

EXISTING MEDIA AND REPLACEMENT - TABLE A:

TYPE	QUANTITY	DEPTH	EFFECTIVE SIZE	U.C.	PACKAGING
SILICA SAND	54 ft³	24 in	0.45-0.55 mm	≤ 1.7	BAGGED AND PALLETIZED
TORPEDO SAND	8 ft³	3 in	1.00-2.00 mm	≤ 1.7	BAGGED AND PALLETIZED
GRAVEL	8 ft³	3 in	3/16in x 3/32in	N/A	BAGGED AND PALLETIZED
	8 ft³	3 in	1/2in x 3/16in		
	12 ft³	5 in	3/4in x 1/2in		
	12 ft³	5 in	1-1/2in x 3/4in		
	12 ft³	5 in	2-1/2in x 1-1/2in		

PAINT AND SURFACE PREPARATION - TABLE B:

COATING AREA	SURFACE PREPARATION	COATING
TANK INTERIOR	PER PAINT MANUFACTURER RECOMMENDATIONS	PRIME: ONE COAT TNAMEC SERIES 21-125S (BEIGE) EPOXOLINE PRIMER STRIPE: ONE COAT TNAMEC SERIES 21-WH16 (OFF-WHITE) EPOXOLINE FINISH: ONE COAT TNAMEC SERIES 21-WH16 (OFF-WHITE) EPOXOLINE FINISH PAINT
TANK EXTERIOR	PER PAINT MANUFACTURER RECOMMENDATIONS	PRIME: ONE COAT TNAMEC SERIES 21-125S (BEIGE) EPOXOLINE PRIMER FINISH: FIELD FINISH TO BE APPLIED BY OTHERS
TANK BOTTOM	N/A	TANK IS UNPAINTED ON BOTTOM EXTERIOR SURFACE AND DESIGNED FOR INSTALLATION ON COAL TAR OR ASPHALTIC TYPE BASE MASTIC COMPOUND APPLIED TO CONCRETE BASE PAD BY OTHERS

RQAW



PERMIT SET

SALT CREEK ESTATES WATER TREATMENT PLANT IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

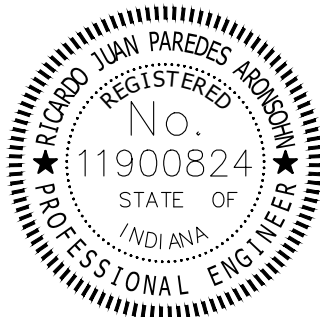
Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

Date: 02/03/2025



Ricardo Juan Paredes

GRAVITY SAND FILTERS
DETAIL VIEWS

Q300

ELECTRICAL SYMBOLS - PLANS			
CLG.	WALL	FLOOR	SYMBOLS DESCRIPTION
			INCANDESCENT OR HID FIXTURE
			FLUORESCENT FIXTURE - CIRCLE INDICATES J-BOX ABOVE
			AREA LIGHT AND POLE
			LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP
			EXIT FIXTURE, ARROWS AS INDICATED, SHADE AREA INDICATES EXIT FACE
			EMERGENCY LIGHTING UNIT (BATTERY POWERED)
			FIXTURE CONNECTED TO CKT #1, SWITCH "B"
			FIXTURE TYPE "A", 2-40 WATT LAMPS TYPICAL FOR ROOM NOTED, UON
			DUPLEX RECEPTACLE
			DUPLEX RECEPTACLE GFCI TYPE
			DOUBLE DUPLEX RECEPTACLE
			RECEPTACLE, TYPE AS NOTED ON PLANS
			SINGLE POLE SWITCH
			DOUBLE POLE SWITCH
			THREE WAY SWITCH
			FOUR WAY SWITCH
			"b" DENOTES OUTLET CONTROLLED
			KEY OPERATED SWITCH
			MANUAL MOTOR STARTER
			OCCUPANCY SENSOR
			TELEPHONE OUTLET
			DATA OUTLET
			TELEPHONE/DATA OUTLET COMBO
			THERMOSTAT OUTLET + 66" UON
			JUNCTION BOX FOR WALL MOUNT
			INDICATES HEIGHT FROM FINISHED FLOOR GRADE TO CENTERLINE OF DEVICE
			+ 18" UON
			+ 48" UON
			CONTROLLER/STARTER FURNISHED WITH EQUIPMENT
			DETAIL CALL-OUT: X, DETAIL IDENTIFIER; Y, SHEET WHERE DETAIL IS DRAWN
			POWER DISTRIBUTION SWITCHBOARD
			SURFACE MOUNTED PANELBOARD
			FLUSH MOUNTED PANELBOARD
			SHEET NOTE, SEE NOTE INDICATED
			DEVICE CONNECTION POINT
			INTERCEPTION POINT FROM EXISTING TO NEW
			HAND HOLE, 11"H X 17"L X 12" D, UON
			PULLBOX, 36"H X 60"L X 36"D, UON
			PAD MOUNTED TRANSFORMER/ DRY TYPE TRANSFORMER
			NON-FUSIBLE DISCONNECT SWITCH, SIZE AS NOTED ON ONE-LINE DIAGRAM
			FUSIBLE DISCONNECT SWITCH, 3P UON SIZE AS NOTED ON ONE-LINE DIAGRAM
			DISCONNECT WITH EMERGENCY STOP
			FIELD CONTROL STATION SEE SCHEMATIC DIAGRAM
			FEEDER DESIGNATION SEE SCHEDULE FOR SIZE
			EQUIPMENT TAG
			CONDUIT CONCEALED IN WALLS OR CEILING 3/4"C, 2 - #12, 1 - #12G, UON
			CONDUIT UNDER GROUND 3/4" C., 2 - #12; 1 - #12G, UON
			CONDUIT EXPOSED 3/4" C., 2 - #12, 1 - #12G, UON
			QUANTITY #12 WIRE CURVE LINE INDICATES GROUND WIRE
			WIRE SIZE OTHER THAN #12 CURVE LINE INDICATES GROUND WIRE
			CONDUIT STUBBED UP INTO EQUIPMENT AND PLUGGED
			NUMBER OF 18 AWG TWISTED SHIELDED PAIR CABLE
			CONNECTION TO GROUND BUS
			GROUNDING CONDUCTOR 30" BELOW GRADE, #4/O UON
			GROUND ROD, 3/4" X 10' - 0" GW NEXT TO SYMBOL INDICATES GROUND ROD IN HANDHOLE
			EXOTHERMIC WELD CONNECTION
			DUCT BANK
			EXISTING UNDERGROUND ELECTRICAL
			HOMERUN TO PANEL A, CIRCUIT 1 AND 3
			CONDUIT BENDS TOWARD OBSERVER
			CONDUIT BENDS AWAY FROM OBSERVER
			CONDUIT STUB-OUT AND CAPPED
			FLEXIBLE CONDUIT CONNECTION
			MOTOR CONNECTION
			MOTOR CONNECTION, DISCONNECT FURNISHED WITH MOTOR
			SOLENOID VALVE
			DISCONNECTS OR COMBINATION STARTERS SERVING EQUIPMETN SHOWN. PROVIDE CONNECTING FEEDERS BETWEEN DEVICES, SIZE TO MATCH SERVING FEEDER.

ELECTRICAL SYMBOLS - ONE-LINE DIAGRAM	
	DIGITAL MULTI-FUNCTION METER
	CURRENT TRANSFORMER, QUANTITY INDICATED
	POTENTIAL TRANSFORMER, QUANTITY INDICATED
	POWER TRANSFORMER
	FEEDER DESIGNATION - SEE SCHEDULE OR ONE-LINE DIAGRAM FOR SIZE
	CIRCUIT BREAKER, 3 POLE UNLESS NOTED MCP INDICATES MOTOR CIRCUIT PROTECTOR
	MAGNETIC MOTOR STARTER, NEMA SIZE INDICATED FULL-VOLTAGE NON-REVERSING UNLESS NOTED RV=REDUCED VOLTAGE STARTING 2S, 2W = 2 SPEED, 2 WINDING
	FUSE
	DISCONNECT SWITCH, NON-FUSIBLE, SEE PLANS FOR RATING
	DISCONNECT SWITCH, FUSIBLE, SEE PLANS FOR RATING
	MOTOR, X = HORSEPOWER
	GENERATOR
	SURGE ARRESTER
	GROUND
	DELTA CONNECTION
	WYE CONNECTION
	POWER FAILURE RELAY
	VARIABLE FREQUENCY DRIVE
	SOLID STATE STARTER
	CONTROLLER/STARTER FURNISHED WITH EQUIPMENT
	GROUND FAULT PROTECTION
	INCOMING ELECTRIC SERVICE

ELECTRICAL SYMBOLS - SCHEMATIC DIAGRAMS		
NORMALLY OPEN	NORMALLY CLOSED	DEVICE
		CONTACT
		TIMED CONTACT CONTACT ACTION RETARDED ON ENERGIZATION
		TIMED CONTACT CONTACT ACTION RETARDED ON DE-ENERGIZATION
		PUSH BUTTON SINLGE CIRCUIT MOMENTARY CONTACT
		PUSH BUTTON SINGLE CIRCUIT LOCK-OUT
		LIMIT SWITCH
		LIQUID LEVEL SWITCH
		PRESSURE OR VACUUM SWITCH
		FLOW SWITCH
		TEMPERATURE SWITCH
		SELECTOR SWITCH - CAN BE 2-WAY OR 3-WAY
		MANUAL MOTOR STARTER
		DOOR INTERLOCK SWITCH
		MOTOR OVERLOAD RELAY CONTACT
		MOTOR OVERLOAD HEATER
		PILOT LIGHT R=RED, W=WHITE, G=GREEN, A=AMBER, C=CLEAR
		PILOT LIGHT-PUSH TO TEST
		RELAY
		TIME DELAY RELAY
		STARTER COIL
		SOLENOID OPERATED VALVE
		MOTOR
		BELL OR BUZZER
		ELAPSED TIME METER
		FUSE
		CONTROL POWER TRANSFORMER
		GROUND
		WIRING IN MOTOR STARTER OR CONTROL PANEL
		FIELD WIRING
		TERMINAL BLOCK IN FCS
		TERMINAL BLOCK IN MOTOR STARTER OR PANEL
		TERMINAL BLOCK IN PLC
		POWER FAIL RELAY
		SPACE HEATER
		RESISTOR
		CIRCUIT BREAKER
		PLC OUTPUT ISOLATION RELAY

FREQUENTLY USED ABBREVIATIONS	
A AMPERE	MLO MAIN LUG ONLY
AFF ABOVE FINISHED FLOOR	MTD MOUNTED
AFGABOVE FINISHED GRADE	MTS MANUAL TRANSFER SWITCH
AIC AMPS INTERRUPTING CAPACITY	NA NOT APPLICABLE
ALT ALTERNATE	NC NORMALLY CLOSED
ARCARCHITECT/ARCHITECTURAL	NEC NATIONAL ELECTRICAL CODE
ATSAUTOMATIC TRANSFER SWITCH	NF NON-FUSED
BFGBELOW FINISHED GRADE	NIC NOT IN CONTRACT
BPSBOLTED PRESSURE SWITCH	NL NIGHT LIGHT
C CONDUIT	NO NORMALLY OPEN
CB CIRCUIT BREAKER	NTS NOT TO SCALE
CCTCLOSED CIRCUIT TELEVISION	OL OVERLAY RELAY OR OVERLAY CONTACT
CLGCEILING	P POLE OR PHASE
CP CONTROL PANEL	PC PLUMBING CONTRACTOR
CPTCONTROL POWER TRANSFORMER	PF POWER FACTOR
CT CURRENT TRANSFORMER	PH PHASE
CU COPPER	PT POTENTIAL TRANSFORMER
DISDISCONNECT	PRI PRIMARY
DP DOUBLE POLE	PVC POLYVINLY CHLORIDE
DT DOUBLE THROW	SN SOLID NEUTRAL
EC ELECTRICAL CONTRACTOR	SP SINGLE POLE
EF EXHAUST FAN	SPKR SPEAKER
EM EMERGENCY	ST SINGLE THROW SWITCH
EMSENERGY MANAGEMENT SYSTEM	SW SWITCHBOARD
EMTELECTRICAL METALLIC TUBING	SQ SQUARE
ENGINEER	SQ TIME CLOCK
EWGELECTRIC WATER COOLER	TC TIME DELAY
F FUSED	TD TAMPER PROOF
FACFIRE ALARM CONTROL PANEL	TP TIMING RELAY
FARFIRE ALARM REMOTE ANNUNCIATOR	TR TD CLOSE TO DENERGIZATION
FDRFEEDER	TDOD TD CLOSE ON ENERGIZATION
FDSFUSED DISCONNECT SWITCH	TDCE TD OPEN ON DENERGIZATION
FLR FLOOR	TDOD TD OPEN ON ENERGIZATION
FVNFULL VOLTAGE NON REVERSING	TD OE TELEPHONE
G/GROUND	TEL TELEPHONE TERMINAL BOARD
GC GENERAL CONTRACTOR	TTB TELEPHONE TERMINAL CABINET
GFI GROUND FAULT INTERRUPTER	TTC TRANSIENT VOLTAGE SURGE SUPPRESSION
GFPGROUND FAULT PROTECTOR	TVSS TYPICAL
GRSGALVANIZED RIGID STEEL CONDUIT	TYP VOLT-AMPERE
HH HANDHOLE	VA VARIABLE FREQUENCY DRIVE
HP HORSEPOWER	VFD WIRE OR WATTS
HZ HERTZ	W WIREMOLD (SURFACE MTD)
IG ISOLATED GROUND	WM WEATHERPROOF
JB JUNCTION BOX	WP EXPLOSION PROOF
MCMTHOUSAND CIRCULAR MILS	XP
KVAKILO-VOLT AMPERE	
KVARILLO-VOLT AMPERE REACTIVE	
KW KILOWATT	
MC MECHANICAL CONTRACTOR	
MCMOTOR CONTROL CENTER	
MCBMAIN CIRCUIT BREAKER	
MCMOTOR CIRCUIT PROTECTOR	
MH MANHOLE	
MICMICROPHONE	
φ PHASE OR DIAMETER	

GENERAL NOTES

- FIELD VERIFY EXACT LOCATIONSO F UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.
- REFERENCE MECHANICAL AND CIVIL DRAWINGS FOR NEW AND EXISITING PIPING.
- BELOW GRADE CONDUITS SHALL BE INSTALLED A MINIMUM DEPTH OF 18" BELOW THE FINISHED FLOOR/GRADE OR 18" BELOW ANY PIPE CROSSING THE CONDUIT PATH WHICHEVER IS DEEPER DOWN TO 5 FEET.
- REFER TO CONDUIT AND WIRING SCHEDULE FOR CONDUIT AND WIRE REQUIREMENTS. ALL C, L & P DESIGNATED CONDUITS SHALL BE ROUTED THROUGH PPB PULL BOXES AND A & D DESIGNATED CONDUITS SHALL BE ROUTED THROUGH SPB PULL BOXES.
- PROVIDE ELECTRICAL SYSTEM TESTING PER CONTRACT SPECIFICATION SECTION PRIOR TO ENERGIZING ANY ELECTRICAL EQUIPMENT OR SERVICES.

PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1

Designed By: JAR

Drawn By: JAR

Checked By: JAR

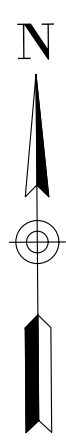
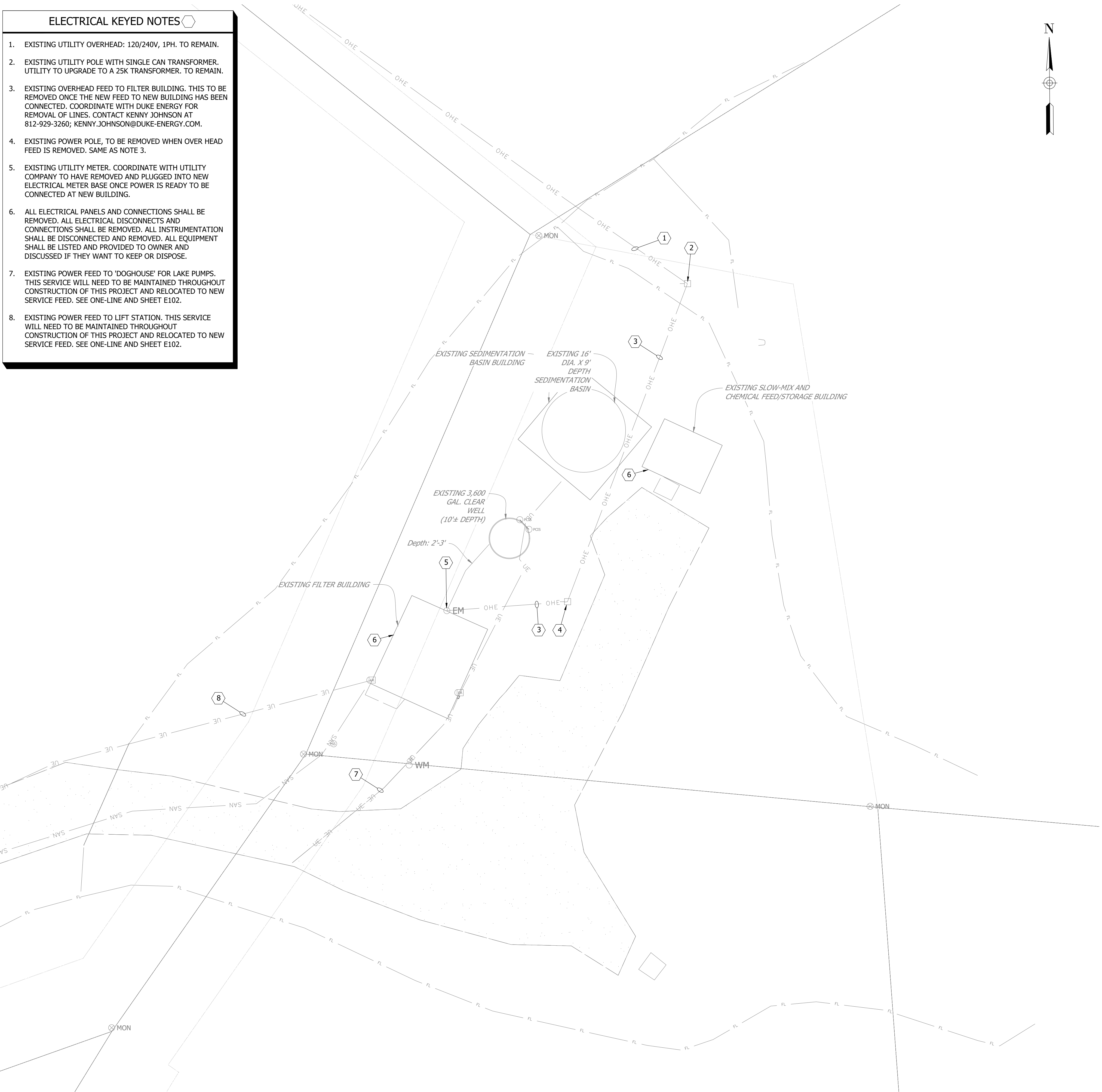
Date: 05/16/2025



ELECTRICAL SYMBOLS
AND ABBREVIATIONS

E100

PRINT DATE: 5/21/25
PLOT SCALE: 1:1
DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\6 ACO\PLAN SHEETS\234001881 ELECTRICAL DEMOLITION PLAN.DWG
EDITED BY: JREED
DATE: 5/19/25 7:40 AM



- ELECTRICAL KEYED NOTES
1.

EXISTING UTILITY OVERHEAD: 120/240V, 1PH. TO REMAIN.
2.

EXISTING UTILITY POLE WITH SINGLE CAN TRANSFORMER. UTILITY TO UPGRADE TO A 25K TRANSFORMER. TO REMAIN.
3.

EXISTING OVERHEAD FEED TO FILTER BUILDING. THIS TO BE REMOVED ONCE THE NEW FEED TO NEW BUILDING HAS BEEN CONNECTED. COORDINATE WITH DUKE ENERGY FOR REMOVAL OF LINES. CONTACT KENNY JOHNSON AT 812-929-3260; KENNY.JOHNSON@DUKE-ENERGY.COM.
4.

EXISTING POWER POLE, TO BE REMOVED WHEN OVER HEAD FEED IS REMOVED. SAME AS NOTE 3.
5.

EXISTING UTILITY METER. COORDINATE WITH UTILITY COMPANY TO HAVE REMOVED AND PLUGGED INTO NEW ELECTRICAL METER BASE ONCE POWER IS READY TO BE CONNECTED AT NEW BUILDING.
6.

ALL ELECTRICAL PANELS AND CONNECTIONS SHALL BE REMOVED. ALL ELECTRICAL DISCONNECTS AND CONNECTIONS SHALL BE REMOVED. ALL INSTRUMENTATION SHALL BE DISCONNECTED AND REMOVED. ALL EQUIPMENT SHALL BE LISTED AND PROVIDED TO OWNER AND DISCUSSED IF THEY WANT TO KEEP OR DISPOSE.
7.

EXISTING POWER FEED TO 'DOGHOUSE' FOR LAKE PUMPS. THIS SERVICE WILL NEED TO BE MAINTAINED THROUGHOUT CONSTRUCTION OF THIS PROJECT AND RELOCATED TO NEW SERVICE FEED. SEE ONE-LINE AND SHEET E102.
8.

EXISTING POWER FEED TO LIFT STATION. THIS SERVICE WILL NEED TO BE MAINTAINED THROUGHOUT CONSTRUCTION OF THIS PROJECT AND RELOCATED TO NEW SERVICE FEED. SEE ONE-LINE AND SHEET E102.

DEMOLITION PLAN LEGEND	
	EXISTING EASEMENT
	EXISTING PROPERTY LINE
	EXISTING TOP OF BANK
	EXISTING TOE OF SLOPE
	EXISTING EDGE OF GRAVEL
	EXISTING EDGE OF CONCRETE
	EXISTING EDGE OF TREE LINE
	EXISTING UNDERGROUND ELECTRICAL
	EXISTING FIBER OPTIC
	EXISTING OVERHEAD ELECTRICAL
	EXISTING DRAINAGE DITCH
	PROPOSED CONSTRUCTION LIMITS
MON	SURVEY MONUMENT
XXX.X	EXISTING SPOT ELEVATION
	EXISTING ELECTRICAL POWER POLE
	EXISTING POWER POLE GUY WIRE
	EXISTING ELECTRICAL METER
	EXISTING FIBER PEDESTAL
	EXISTING WATER METER
	EXISTING WATER STRUCTURE
	EXISTING SANITARY STRUCTURE

KEY NOTES	
A	DEMOLITION LIMITS

- GENERAL ELECTRICAL DEMOLITION PLAN NOTES
1.

THE CONTRACTOR SHALL REMOVE ALL MUD, DIRT, GRAVEL AND ANY OTHER MATERIALS TRACKED ONTO ANY PUBLIC OR PRIVATE STREETS OR SIDEWALKS. THE CONTRACTOR SHALL UTILIZE MEASURES TO CONTROL DUST AT ALL TIMES.
2.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
3.

ALL UTILITIES TO BE REMOVED SHALL BE DISCONNECTED AND CAPPED AT THE NEAREST CONNECTION POINT, UNLESS SPECIFIED OTHERWISE.
4.

UTILITIES ARE SHOWN TO BE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY(S) COMPANY FOR THE REMOVAL, RELOCATION, AND/OR DEMOLITION OF ALL EXISTING UTILITIES.
5.

ALL DEMOLISHED MATERIALS SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE UNLESS NOTED OTHERWISE.
6.

THE USE OF ANY TYPE OF EXPLOSIVES WILL NOT BE PERMITTED.
7.

PROMPTLY REPAIR ANY DAMAGE TO ADJACENT FACILITIES CAUSED BY DEMOLITION AND CONSTRUCTION OPERATIONS AT NO EXTRA COST TO THE OWNER.
8.

DEMOLITION ITEMS INCLUDE BUT ARE NOT LIMITED TO DEMOLITION ITEMS INDICATED ON THIS PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR RELOCATE ITEMS WHICH INTERFERE WITH NEW CONSTRUCTION.
9.

THE OWNER/DEVELOPER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING QUALITY CONTROL AT ALL TIMES DURING THE CONSTRUCTION PROCESS.
10.

DEMOLITION OF THE EXISTING FILTER, SEDIMENTATION BASIN, AND SLOX-MIX AND CHEMICAL FEED/STORAGE BUILDINGS TO BE PERFORMED BY OTHERS. EXISTING WATER TREATMENT SYSTEMS TO REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR TO PROTECT EXISTING FACILITIES AND AVOID DIRECT CONFLICTS WITH WATER TREATMENT OPERATIONS. CONTRACTOR TO COORDINATE WITH OWNER FOR DISCONNECTION OF ANY POWER SOURCES AND REMOVAL OF ELECTRICAL EQUIPMENT.
11.

CONTRACTOR RESPONSIBLE TO COORDINATE WITH OTHERS FOR COMMENCEMENT OF DEMOLITION EFFORTS UPON COMPLETION OF WORK AND LIMITING DISRUPTION OF WATER TREATMENT PRODUCTION.



PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

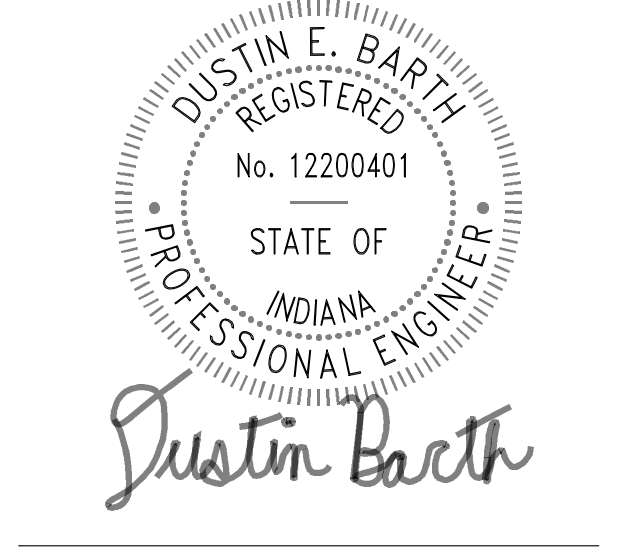
Project #: 23-400-188-1

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Drawn By: JAR

Checked By: JAR

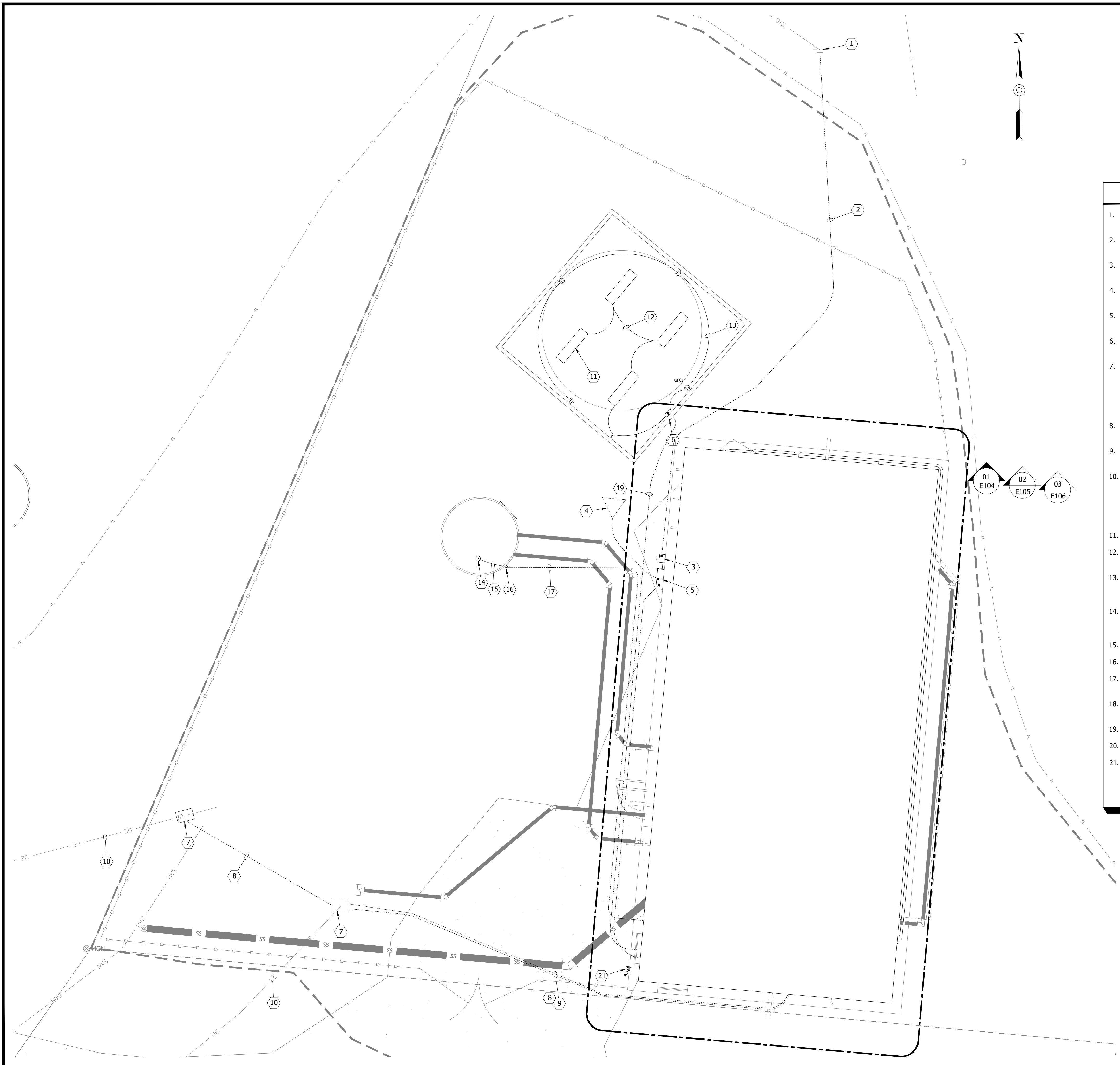
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ELECTRICAL DEMOLITION
PLAN

E101

PRINT DATE: 5/21/25
PLOT SCALE: 1:1
DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\ACAD\PLAN SHEETS\23400188-1 ELECTRICAL SITE IMPROVEMENT PLAN.DWG
EDIT DATE: 5/19/25 1:35 PM
EDITED BY: JREED



ELECTRICAL KEYED NOTES

1. DUKE ENERGY TO INSTALL NEW POLE MOUNTED 25K TRANSFORMER.

2. NEW 4" UNDERGROUND SCHEDULE 40 PVC CONDUIT WITH PULL STRING. SEE ONE-LINE.

3. NEW 400A 120/240V, 1PH METER BASE. BASE BY CONTRACTOR, UTILITY TO PROVIDE NEW METER.

4. GROUNDING CONNECTION. SEE ONE-LINE AND DETAILS SHEET.

5. ENTRANCE RATED MAIN SERVICE DISCONNECT. 400A, 120/240V, 1PH. SEE ONE-LINE.

6. NEW LP-2: 120/240V, 1PH, 60A SUB-PANEL. NEMA12 STAINLESS STEEL.

7. ELECTRICAL PULL BOXES: SIMILAR TO QUAZITE PG1118Z80517 WITH 15000 POUND COVER. COVER LOGO TO HAVE ELECTRICAL ON IT. MAKE SERVICE SPLICES WITHIN PULL BOX USING INSULATED INLINE SPLICE, VAPOR SEALED AND SUBMERSION RATED (TYPICAL FOR ALL BELOW GRADE SPLICES WITHIN JUNCTION POINTS).

8. NEW 120/240V, 60A UNDERGROUND ELECTRICAL POWER FEED FOR EXISTING LIFT STATION. TO BE REUSED.

9. NEW 120/240V, 60A UNDERGROUND ELECTRICAL POWER FEED FOR EXISTING LAKE PUMPS. TO BE REUSED.

10. EXISTING UNDERGROUND ELECTRICAL FOR LIFT STATION AND LAKE PUMP POWER FEEDS. FROM NEW PULL BOX TO EACH LOCATION, UNDERGROUND ELECTRICAL TO REMAIN. FROM NEW PULL BOX TO ORIGINAL FEED POINT IN EXISTING BUILDING TO BE REMOVED ONCE NEW SERVICE IS READY TO BE SPLICED IN.

11. F1 LED LIGHT. SEE LIGHTING SCHEDULE.

12. #14 CU FOR ALL LIGHTING IN 3/4" PVC CONDUIT AND FASTENED TO RAFTERS.

13. #12 CU FOR ALL RECEPTACLES IN 3/4" PVC CONDUIT. ALL RECEPTACLE BOXES SHALL BE WEATHERPROOF TYPE WITH VISUAL HINGED LIDS.

14. NEW LOOP POWERED RADAR LEVEL SENSOR. A NEW 4" FLANGE SHALL BE MADE INTO TOP OF CLEAR WELL FOR MOUNTING NEW SENSOR.

15. 3/4" SEALTITE FLEX CONDUIT (NO LONGER THAN 6').

16. 6"x6" PVC PULL BOX.

17. 1 - #16 TSP; UNDERGROUND 3/4" PVC TO PLC CONTROL PANEL.

18. UNDERGROUND FEED FOR SEDIMENTATION BUILDING PANELBOARD LP-2. SEE ONE-LINE.

19. 2 - #12 CU, 1 - #12 CU GND; 1" UNDERGROUND PVC.

20. NOT USED.

21. CONDENSING UNIT DISCONNECT.

RQAW

DCCM

PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1

Designed By: JAR

Drawn By: JAR

Checked By: JAR

Date: 05/16/2025

DUSTIN E. BARTH
REGISTERED
No. 12200401
STATE OF
INDIANA
PROFESSIONAL ENGINEER

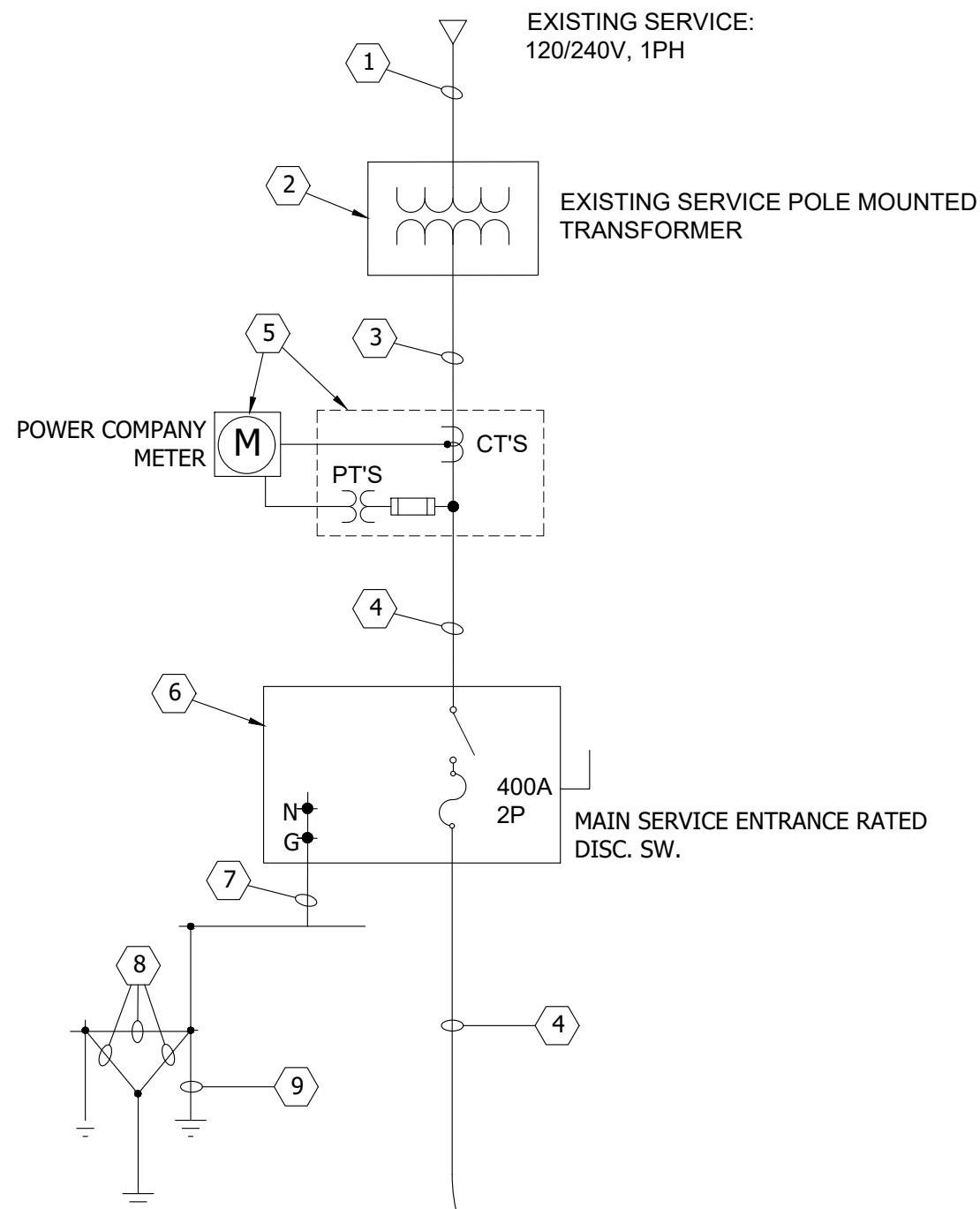
Justin Barth

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GRAPHIC SCALE

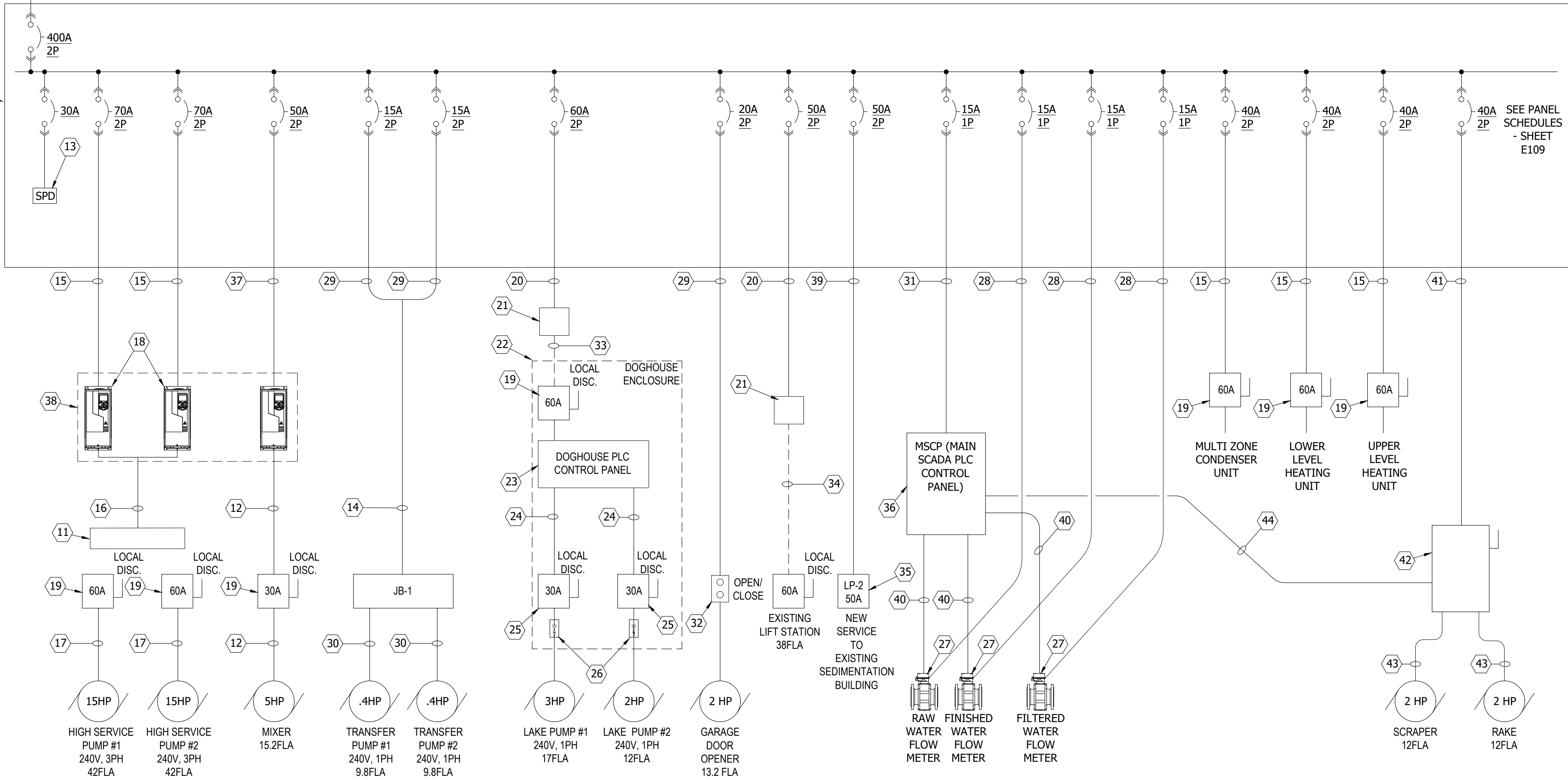
ELECTRICAL SITE
IMPROVEMENTS PLAN

E102

PRINT DATE: 5/21/25
PLOT SCALE: 1:1
DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\ACAO\PLAN SHEETS\234001881 ELECTRICAL ONE-LINE.DWG
EDIT DATE: 5/19/25 9:06 AM
EDITED BY: JREED



MAIN POWER DISTRIBUTION PANEL (LP-1): 120/240V, 1PH WITH 400A MAIN SERVICE BREAKER, 22KA/IC RATED MIN. 42 POSITION MINIMUM.



NEW ELECTRICAL ONE-LINE DIAGRAM

DOGHOUSE PHOTOS:



ELECTRICAL KEYED NOTES:

- EXISTING OVERHEAD UTILITY.
- EXISTING 120/240V, 1PH POLE MOUNTED TRANSFORMER. DUKE ENERGY SHALL UPGRADE TO ACCOMMODATE 400A SERVICE.
- CONTRACTOR TO PROVIDE UNDERGROUND 4" SCHEDULE 40 PVC CONDUIT WITH PULL STRING TO BASE OF EXISTING POLE AND UTILITY METER BASE. CONTRACTOR TO COORDINATE WITH DUKE ENERGY FOR THE CONNECTION TO EXISTING POLE AND RISER INFORMATION. CONTACT KENNY JOHNSON AT 812-929-3260 OR EMAIL AT KENNY.JOHNSON@DUKE-ENERGY.COM.
- UNDERGROUND: 2 SETS OF 3 - #3/O CU, 1 - #3 CU GROUND, 2" C.
- PROVIDE NEW 400A METER BASE FOR 120/240V, 1PH UTILITY METER. CONTRACTOR TO PROVIDE CONDUIT AS DIRECTED BY DUKE ENERGY. SEE BUILDING LAYOUT FOR MOUNTING LOCATIONS.
- 400A FUSED SERVICE ENTRANCE RATED (25KA/IC) MAIN SERVICE DISCONNECT; 120/240V, 1PH, 3W WITH GND. NEMA 4X STAINLESS STEEL (SS). BOND NEUTRAL TO GROUND AT THIS EQUIPMENT.
- 1 - #3 BARE CU GND.
- 1 - #3 CU GROUNDING ELECTRODE CONDUCTOR. CAD WELD, BURY GROUND ROD 12" BELOW GRADE; TYPICAL.
- 3/4" X 10' CU CLAD GROUND ROD, TYPICAL OF 3. SEPARATED BY 10' OF CONDUCTOR TO EACH GROUND ROD.
- 400A, NEMA 12 ENCLOSURE, MAIN DISTRIBUTION PANELBOARD, 54 SPACE "LP-1". FURNISHED AND INSTALLED BY CONTRACTOR.
- HIGH SERVICE PUMP JUNCTION BOX.
- 3 - #12 CU, 1 - #12 CU GND, 1" C.
- PROVIDE 240V, 1PH MAIN POWER DISTRIBUTION PANEL WITH A SURGE PROTECTION DEVICE (SPD).
- 6 - #12 CU, 2 - #12 CU GND, 1" C. TRANSFER PUMPS AND 2 POWER WIRES.
- 2 - #4 CU, 1 - #8 CU NEUTRAL, 1 - #8 CU GND, 1-1/2" C.
- 6 - #8 CU, 2 - #10 CU GND, 1-1/4" C. UNDER SLAB.
- 3 - #8 CU, 1 - #10 CU GND, 1" C. FLEX-SEAL CONDUIT TO MOTOR PECKER HEAD OR OPTIONALLY RUN UNDER SLAB TO STUB UP NEXT TO MOTOR POSITION IF DISTANCE IS TOO FAR FOR FLEX.
- ABB ACQ580-01 SERIES (OR APPROVED EQUAL) NORMAL DUTY VFD UNITS. UNITS SHALL BE RATED AT 30A MINIMUM ON INPUT, MOUNTED IN ELECTRICAL ROOM. SEE SHEET I107. VFD SHALL CONVERT 240V 1PH TO 240V 3PH.
- 30A OR 60A (AS SHOWN) WALL MOUNT, STAINLESS STEEL, NEMA12 NON-FUSED DISCONNECT. 2P OR 3P AS REQUIRED.
- 2 - #6 CU, 1 - #8 CU GND, 2" C. TERMINATE IN NEW QUAZITE PULL BOX TO EXISTING CABLE RUNNING TO DOGHOUSE. (EXISTING CABLE IS #6, DOGHOUSE IS APPROXIMATELY 900 FEET AND LIFT STATION IS APPROXIMATELY 300 FEET FROM PLANT DISTRIBUTION PANEL).
- PULL BOXES; SEE SHEET E102.
- EXISTING LAKE PUMP ELECTRICAL SHELTER (DOGHOUSE), LOCATED NEAR LAKE. COORDINATE ALL WORK WITH OWNER AS THIS IS AN EASEMENT LOCATION ON PRIVATE PROPERTY.
- NEW DOGHOUSE CONTROL PANEL. SEE SHEET I105 AND I106 FOR DETAILS.
- 2 - #10 CU, 1 - #10 CU GND, 1" C FOR LAKE PUMP POWER.
- EXISTING 30A LAKE PUMP DISCONNECTS, TO REMAIN AND BE REUSED.
- EXISTING PUMP MOTOR STARTERS, TO BE REMOVED. NEW STARTERS LOCATED WITHIN PANEL.
- NEW MAGNETIC FLOW METERS FOR RAWWATER, FILTERED AND FINISHED WATER FLOW RATES WITH INTEGRAL ELECTRONICS.
- 120V CIRCUIT FOR FLOW METER POWER. 2 - #12 CU, 1 - #12 CU GND, 3/4" C.
- 2 - #12 CU, 1 - #12 CU NEUTRAL, 1 - #12 CU GND. 1" C.
- MANUFACTURER PUMP CABLE PLUG, PLUG TO BE REMOVED AND PROPERLY SPLICED TO CONTROL STATION.
- 2 - #12 CU, 1 - #12 CU GND, 3/4" C.
- WALL MOUNT OPEN/CLOSE 2-BUTTON CONTROL STATION.
- EXISTING #6 CU POWER FEED TO DOGHOUSE. TO REMAIN. (NOTE: THIS WIRE IS UNDERSIZED FOR THE DISTANCE AND VOLTAGE DROP - ONLY ONE PUMP MAY RUN AT A TIME).
- EXISTING UNDERGROUND, TO REMAIN AND BE REUSED. MAKE TERMINATIONS FROM NEW FEED INSIDE PULL BOX; SEE SHEET E102.
- NEW STAINLESS STEEL NEMA12 120/240V, 50A (OR 60A) SUB-LIGHTING PANEL WITH 50A MAIN BREAKER AND MINIMUM OF 4 - 20A SUPPLEMENTARY BREAKERS.
- NEW NEMA12 WALL MOUNT PLC CONTROL PANEL. SEE SHEETS I101 TO I104.
- 2 - #8 CU, 1 - #10 CU GND, 1" C.
- MOTOR CONTROL PANEL. SEE SHEET I107.
- 2 - #6 CU, 1 - #8 CU GND. 1-1/2" C.
- 1 - #16 TSP, 2 - #14 CU, 1" C. SIGNALS FOR FLOW METERS.
- 2 - #8 CU, 1 - #10 CU GND, 1" C.
- SEDIMENTATION TANK RAKE AND SCRAPER CONTROL PANEL. PROVIDED BY MANUFACTURER AND INSTALLED BY CONTRACTOR.
- 2 - #12 CU, 1 - #12 CU GND. 1" C.
- 20 - #14 CU, 2 - #16 TSP, 1-1/4" C. RAKE AND SCRAPER SIGNAL WIRES.

RQAW

DCCM

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, TN 37248

PERMIT SET

#	Revision	Date

Project #: 23-400-188-1

Designed By: JAR

Drawn By: JAR

Checked By: JAR

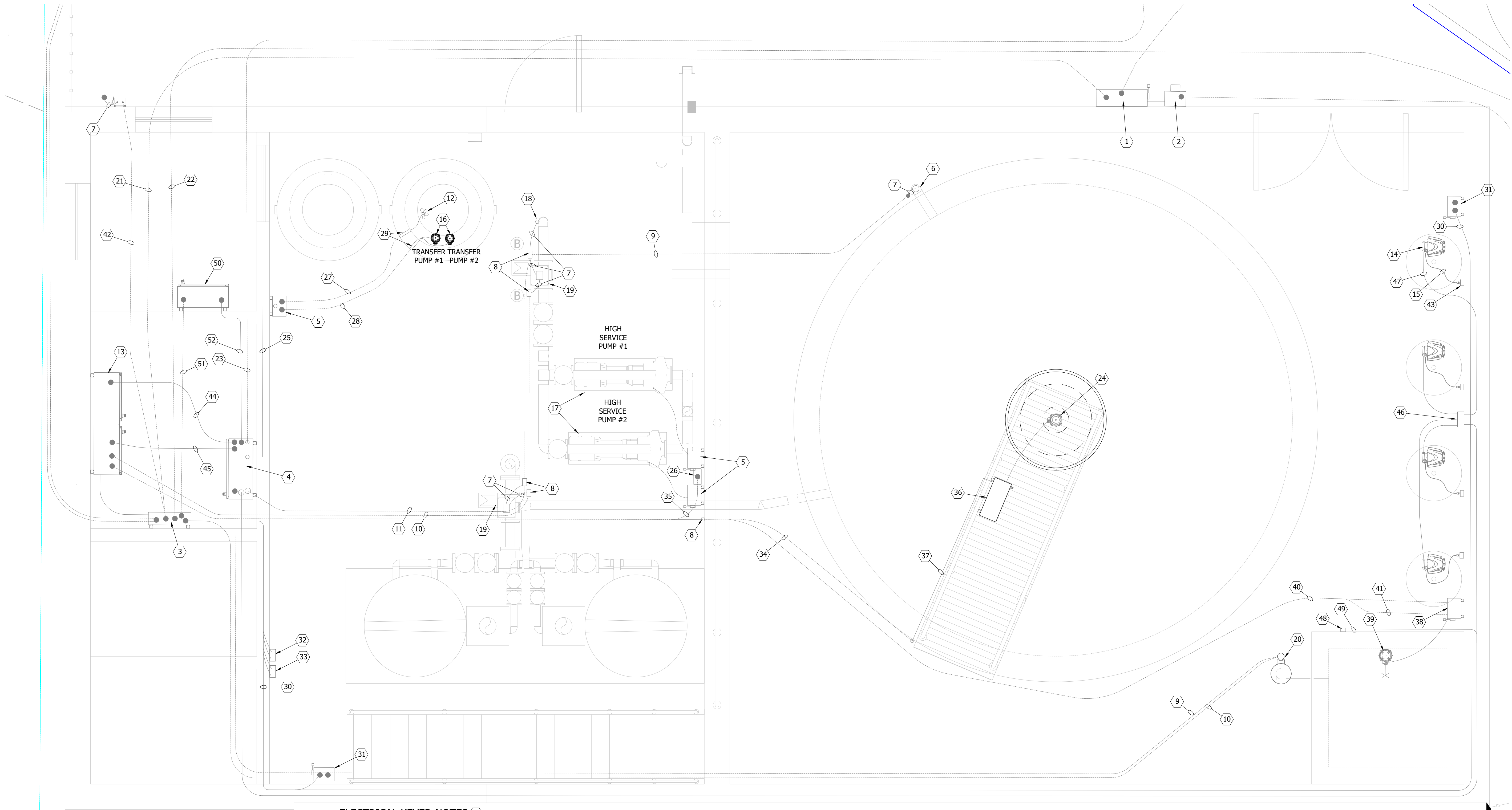
Date: 05/16/2025



ELECTRICAL ONE-LINE

E103

PRINT DATE: 5/21/25
PLOT SCALE: 1:1
DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\5 ACO\PLAN SHEETS\23400188-1 ENLARGED BUILDING ELECTRICAL PLAN.DWG
EDITED BY: JREED
DATE: 5/19/25 1:44 PM



———— CONDUIT RUNS ABOVE GRADE OR FINISHED FLOOR
----- CONDUIT RUNS BELOW GRADE OR UNDER SLAB
NOTE: SHOWN ROUTES ARE FOR REFERENCE ONLY AND FINAL ROUTE SELECTION AND INSTALLATION IS BY CONTRACTOR.

ELECTRICAL KEYED NOTES

- | | | | | |
|---|--|---|---|--|
| 1. ENTRANCE RATED MAIN SERVICE DISCONNECT. SEE ONE-LINE. | 12. TO JUNCTION BOX. TRANSFER FLOAT SWITCHES. | 23. SEDIMENTATION BUILDING. SEE ONE-LINE. UNDERGROUND CONDUIT/WIRE FOR CLEARWELL LEVEL SENSOR. SEE P&ID SHEET. | 34. UNDERGROUND FEEDER CONDUIT/WIRE FOR SEDIMENTATION RAKE AND SCRAPER CONTROL PANEL. SEE ONE-LINE. | 42. UNDERGROUND FEEDER CONDUIT/WIRE FOR CONDENSING UNIT. |
| 2. UTILITY METER. SEE ONE-LINE. | 13. NEW MOTOR CONTROL PANEL. SEE SHEET I107 AND I108. | 24. SCRAPER/RAKE MOTOR. SEE ONE-LINE. | 35. UNDERGROUND HIGH SERVICE PUMP POWER CONDUIT/WIRE. SEE ONE-LINE. | 43. DEDICATED CHEMICAL FEED PUMP RECEPTACLE, GFI. TYPICAL. |
| 3. MAIN POWER DISTRIBUTION PANELBOARD (LP-1). SEE ONE-LINE AND PANEL SCHEDULE. | 14. NEW CHEM-TECH XP SERIES, 115V CHEMICAL FEED PUMP. TYPICAL. ONE ADDITIONAL FEED PUMP WILL BE ADDED FOR NEW CHEMICAL FEED. | 25. TRANSFER PUMP CONTROL WIRES AND FLOAT SWITCH CABLES. | 36. SEDIMENTATION SCRAPER/RAKE CONTROL PANEL PROVIDED BY MANUFACTURER, INSTALLED BY CONTRACTOR. | 44. CAT5E ETHERNET CABLE FOR VFD COMMUNICATIONS. |
| 4. SCADA PLC CONTROL PANEL (MSCP). | 15. CHEMICAL FEED PUMP PLUG STYLE CORD. TYPICAL. | 26. 12"X12" STAINLESS STEEL JUNCTION BOX. | 37. FEEDER CONDUIT/WIRE FOR SEDIMENTATION RAKE AND SCRAPER CONTROL PANEL MOUNTED TO UNDERSIDE OF GRATING FRAME. SEE ONE-LINE. | 45. (24) #14 CU, 1-1/4" C. HARDWIRED CONTROL/STATUS SIGNALS. |
| 5. TRANSFER PUMP, STAINLESS STEEL, JUNCTION BOX (JB-1). | 16. SUBMERSED TRANSFER PUMPS. | 27. UNDERGROUND CONDUIT/WIRE FOR MANUFACTURER CABLE FLOAT SWITCHES. SEE P&ID SHEET. | 38. MIXER STAINLESS STEEL DISCONNECT. DISCONNECT PANEL SHALL INCLUDE A 2 POSITION ON/OFF SWITCH AND A 3 POSITION LOCAL-OFF-REMOTE SWITCH. SEE SHEET I108. | 46. 16" X 16" STAINLESS STEEL JUNCTION BOX. JB-2. |
| 6. NEW LOOP POWERED RADAR LEVEL SENSOR. A NEW 4" FLANGE SHALL BE MADE INTO TOP OF STILLING TUBE TO READ WATER LEVEL INSIDE SEDIMENTATION TANK. SEE DETAILS. | 17. HIGH SERVICE PUMPS. | 28. UNDERGROUND CONDUIT FOR TRANSFER PUMP MANUFACTURE CABLES. IF PUMPS COME WITH PLUGS, REMOVE PLUGS AND PROPERLY SPLICE. | 39. MIXER MOTOR. | 47. CONDUIT AND WIRE FOR FEED PUMP SIGNALS. TYPICAL. |
| 7. 3/4" SEALTITE FLEX CONDUIT (NO LONGER THAN 6'). | 18. PLANT DISCHARGE PRESSURE TRANSMITTER. | 29. PROVIDE LINK SEALS FOR ALL WET WELL PENETRATIONS. | 40. MIXER UNDERGROUND CONDUIT/WIRE TO MOTOR CONTROL PANEL. | 48. MIXING CYCLE CONTROL STATION. SEE SHEET E-108. |
| 8. 8"X8" PVC PULL BOX. | 19. FINISHED WATER AND FILTERED WATER MAGNETIC FLOW METER. ERH PROLINE PROMAG W400 OR APPROVED EQUAL. ZERO PIPE DIAMETER UPSTREAM AND DOWNSTREAM SELECTION REQUIRED. | 30. CONDUIT/WIRE FOR CEILING MOUNTED HEATER. SEE ONE-LINE. | 41. 6 - #14 CU, 1" C. (CANNOT BE PULLED IN MIXER POWER FEEDER CONDUIT). | 49. MIXING CYCLE CONTROL STATION WIRE/CONDUIT. SEE SHEET E-108. |
| 9. SEDIMENTATION TANK LEVEL SENSOR UNDERGROUND 3/4" PVC TO PLC CONTROL PANEL. SEE E108. | 20. RAW WATER MAGNETIC FLOW METER. | 31. 2P STAINLESS STEEL DISCONNECT. SEE ONE-LINE. | | 50. REMOTE DISPLAY CONTROL PANEL. WALL MOUNTED IN OFFICE. COORDINATE WITH OWNER FOR LOCATION AND HEIGHT. SEE SHEET I101. |
| 10. 4 - #12 CU, 2 - #12 CU GND; 1" UNDERGROUND PVC. FINISHED WATER AND FILTERED WATER FLOW METER POWER. | 21. UNDERGROUND MAIN POWER FEEDER CONDUIT/WIRE. SEE ONE-LINE. | 32. CHLORINE RESIDUAL ANALYZER. | | 51. REMOTE DISPLAY POWER. 2 - #12 CU, 1 - #12 CU GND, 3/4" C. |
| 11. 5 - #16 TSP, 1" C FOR ANALOG SIGNALS. PROVIDE ONE AS SPARE | 22. UNDERGROUND FEEDER TO LP-2 PANELBOARD IN EXISTING | 33. DUAL CHANNEL TURBIDITY METER ELECTRONICS. | | 52. 1 - CAT5E OR CAT6 ETHERNET CABLE. 1" C. |

RQAW

DCCM

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SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS
9009 SOUTH DJANNE STREET, NASHVILLE, IN 47448

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Checked By: JAR

Date: 05/16/2025

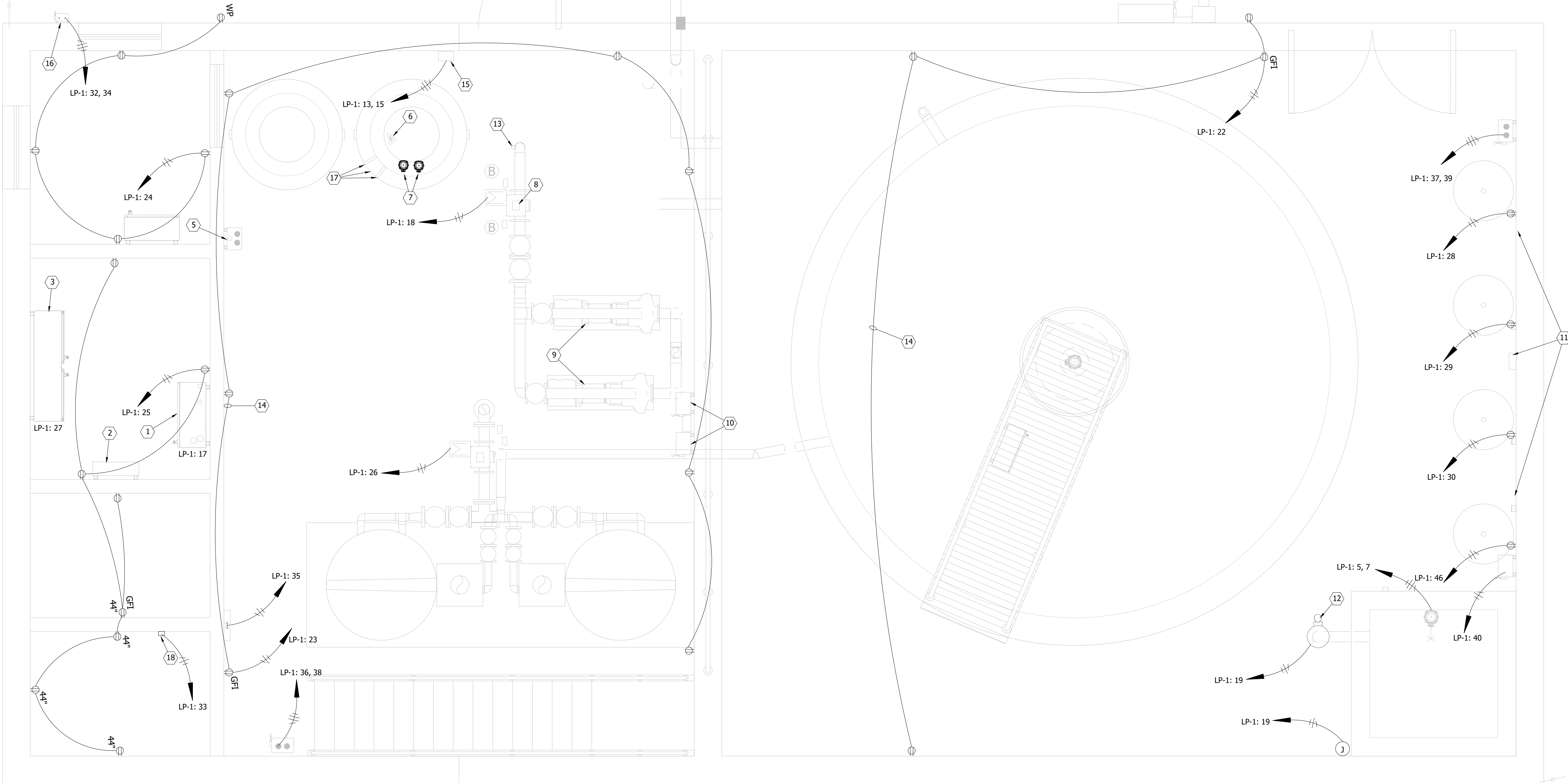


ENLARGED ELECTRICAL
BUILDING PLAN

E104

PRINT DATE: 5/21/25
PLOT SCALE: 1:1

DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\5 ACAD\PLAN SHEETS\23400188-1 ELECTRICAL BUILDING POWER DETAILS.DWG
EDIT DATE: 5/19/25 11:59 AM EDITED BY: JREED



ELECTRICAL KEYED NOTES:

- PLC CONTROL PANEL (MSCP).
- MAIN DISTRIBUTION PANEL.
- MOTOR CONTROL PANEL.
- NOT USED.
- TRANSFER PUMP DISCONNECTS. SEE ONE-LINE.
- TRANSFER WET WELL FLOAT SWITCHES.
- TRANSFER PUMPS 1 & 2 POWER JUNCTION BOX.
- FINISHED WATER MAGNETIC FLOW METER.
- HIGH SERVICE PUMPS 1 & 2.
- HIGH SERVICE PUMP DISCONNECTS. SEE ONE-LINE.
- CHEMICAL TANKS AND FEED PUMPS.
- RAW WATER MAGNETIC FLOW METER.
- DISCHARGE PRESSURE TRANSMITTER (STORAGE TANK LEVEL).
- ALL RECEPTACLE WIRING SHALL BE #12 STRANDED COPPER.
- GARAGE DOOR OPENER CONTROL STATION.
- MULTI-ZONE CONDENSER UNIT DISCONNECT.
- PROVIDE LINK SEALS FOR ALL CONDUIT PENETRATIONS INTO WET WELL.
- JUNCTION BOX FOR FUTURE INSTANT WATER HEATER. DEDICATED CIRCUIT.

NEW ELECTRICAL BUILDING POWER PLAN

RQAW

DCCM

PERMIT SET
SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS
9009 SOUTH DJANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1

Designed By: JAR

Drawn By: JAR

Checked By: JAR

Date: 05/16/2025



Justin Barth

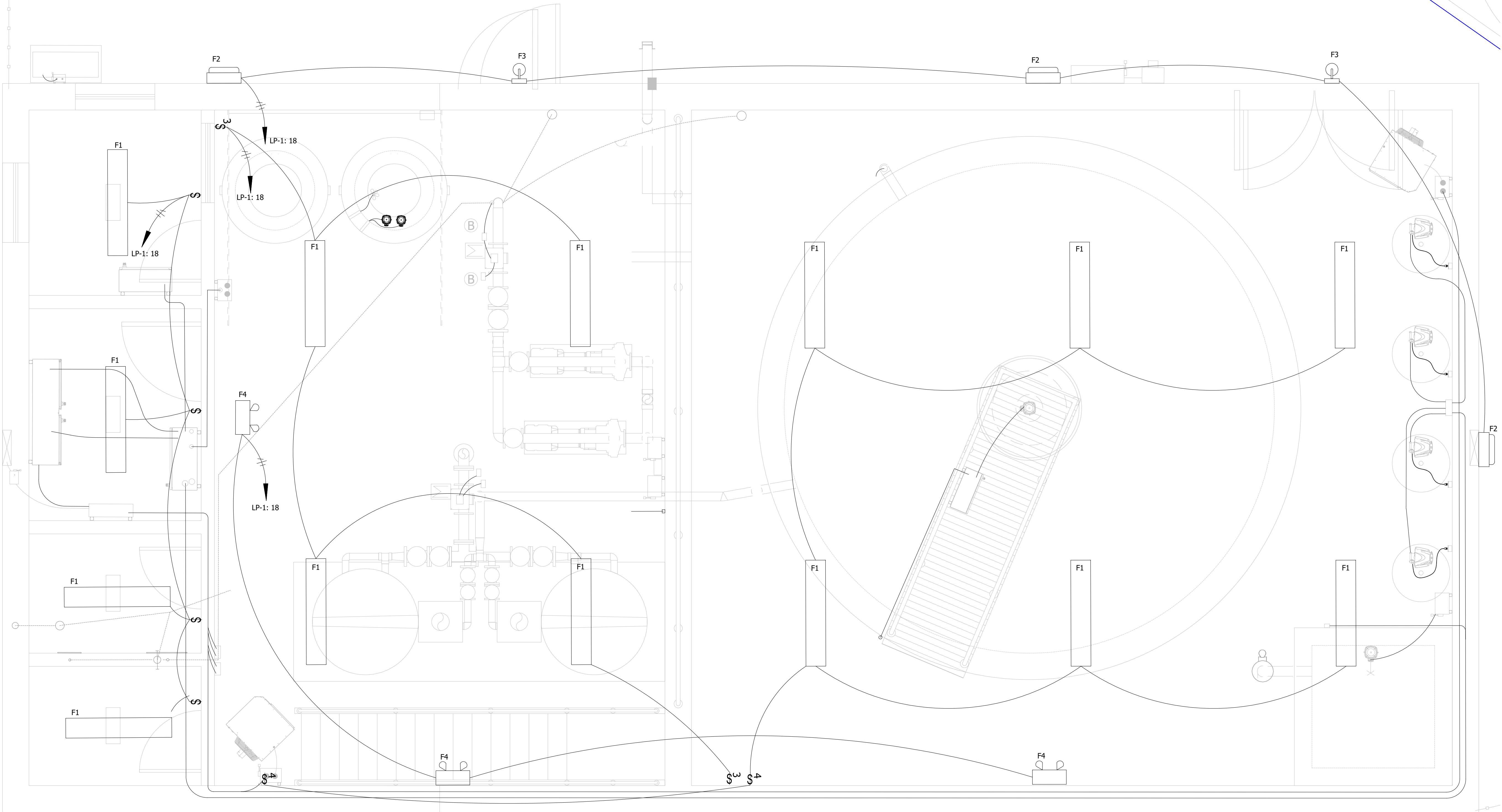


ELECTRICAL BUILDING
POWER DETAILS

E105

PRINT DATE: 5/21/25
PLOT SCALE: 1:1
DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\ACAD\PLAN SHEETS\23400188-1 ELECTRICAL BUILDING LIGHTING AND HVAC.DWG
EDIT DATE: 5/13/25 8:54 PM
EDITOR: JREED

NEW ELECTRICAL BUILDING LIGHTING PLAN



GENERAL NOTES:

- ALL LIGHTING WITHIN OFFICE, ELECTRICAL ROOM, STORAGE ROOM AND LAB AREA SHALL BE CEILING MOUNTED. ALL WIRING SHALL BE RAN WITHIN WALLS AND CEILING TO APPROPRIATE JUNCTION BOXES.
- ALL EXTERIOR LIGHTING SHALL BE CONNECTED VIA GRS CONDUIT IF CONDUIT IS EXTERIOR TO WALL. ALL INTERIOR WALL WIRE SHALL BE AS REQUIRED, ALL EXTERIOR PENETRATIONS SHALL BE PROPERLY SEALED.

PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, TN 37248

#	Revision	Date

Project #: 23-400-188-1

Designed By: JAR

Drawn By: JAR

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Date: 05/16/2025

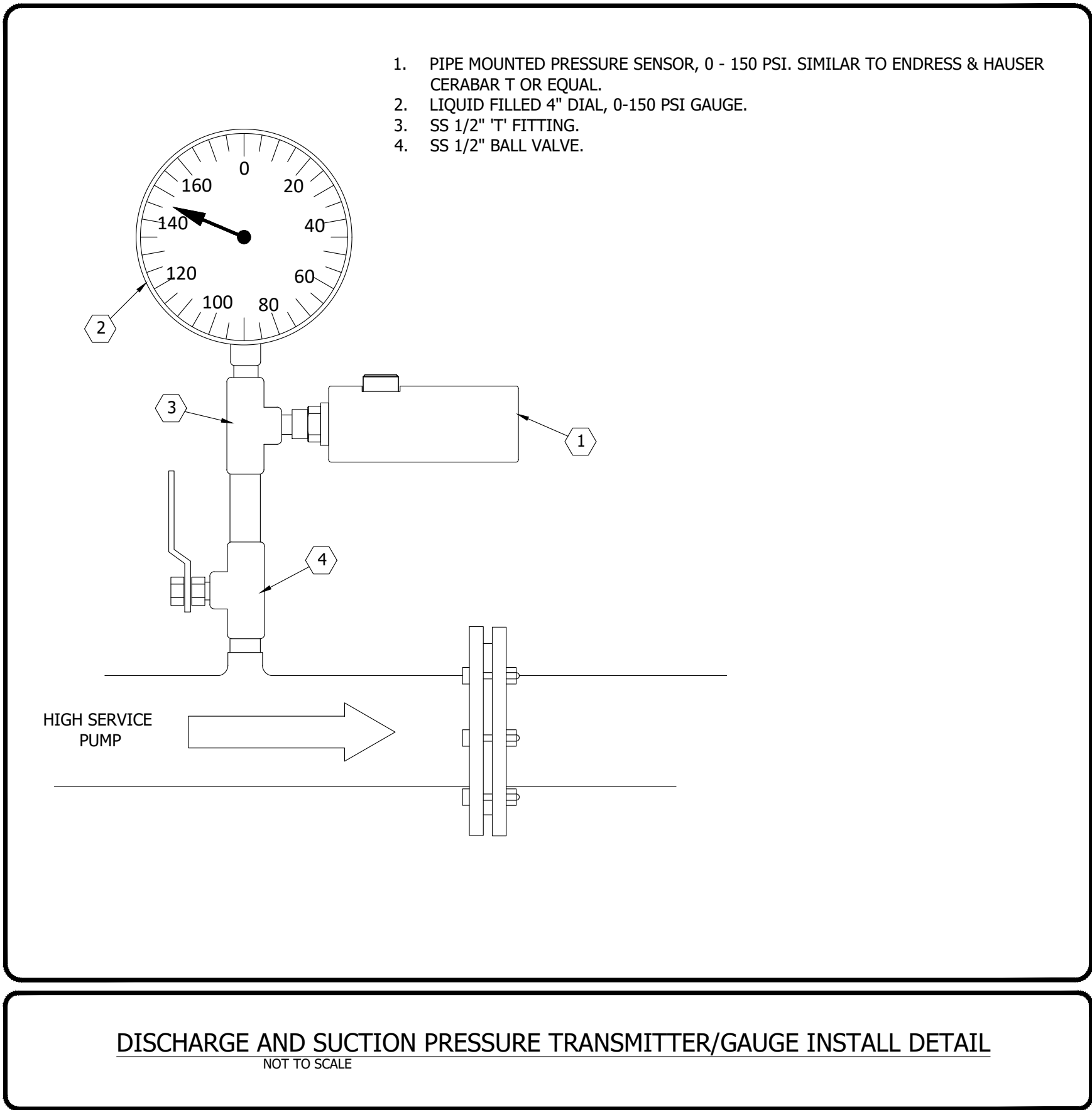
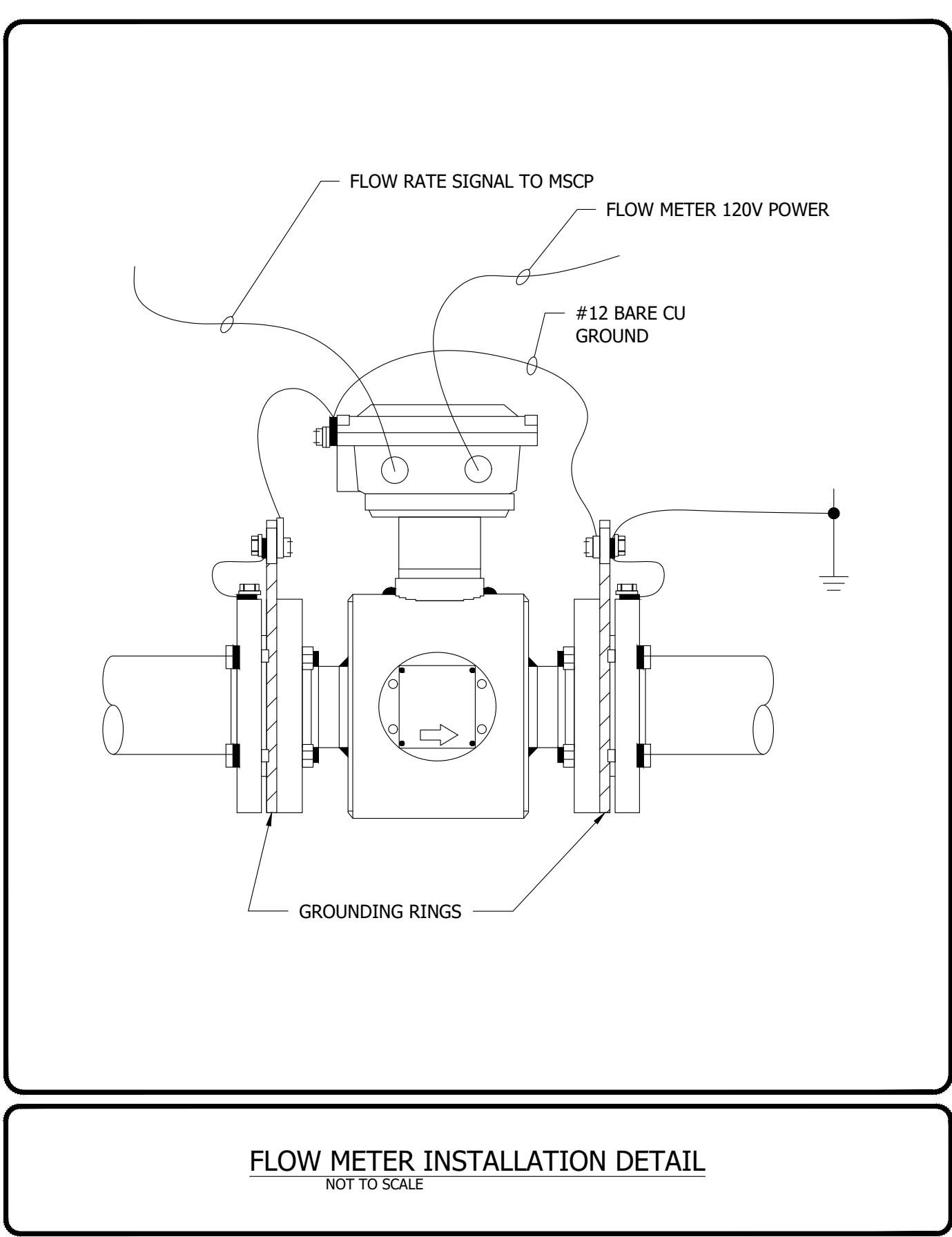
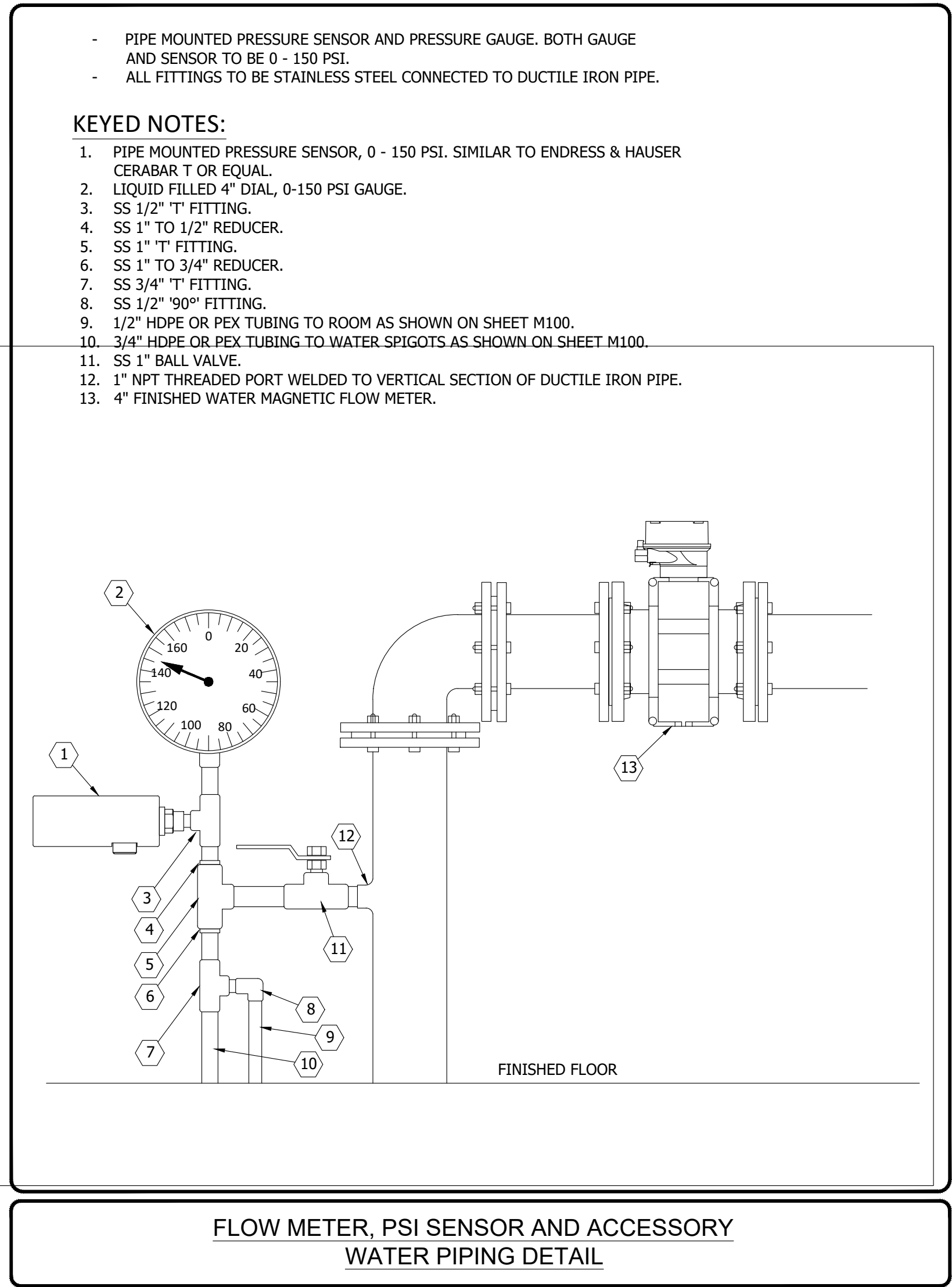
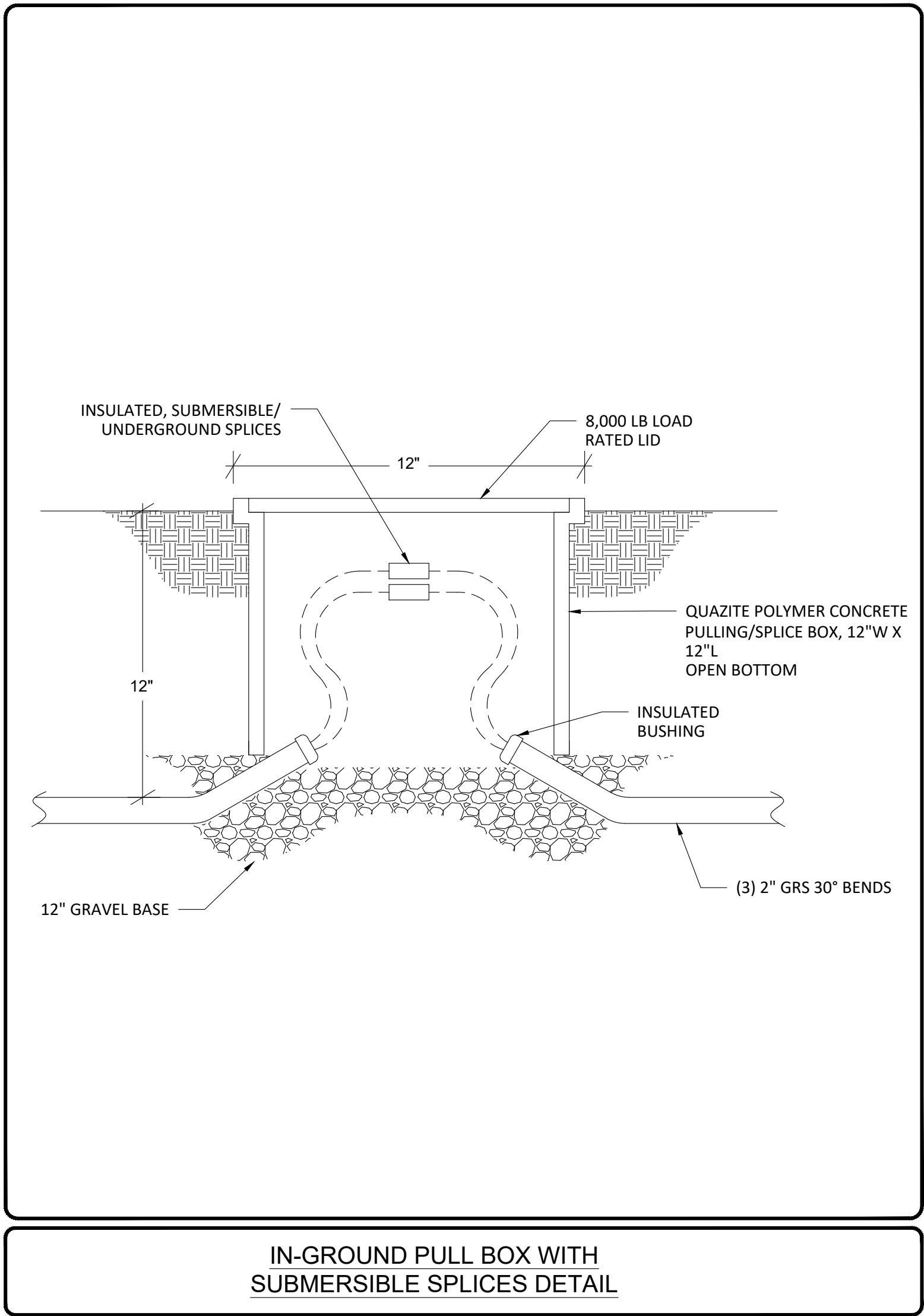


Dustin Barth



ELECTRICAL BUILDING
LIGHTING PLAN

PRINT DATE: 5/21/25
PLOT SCALE: 1:1
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DATE: 5/19/25
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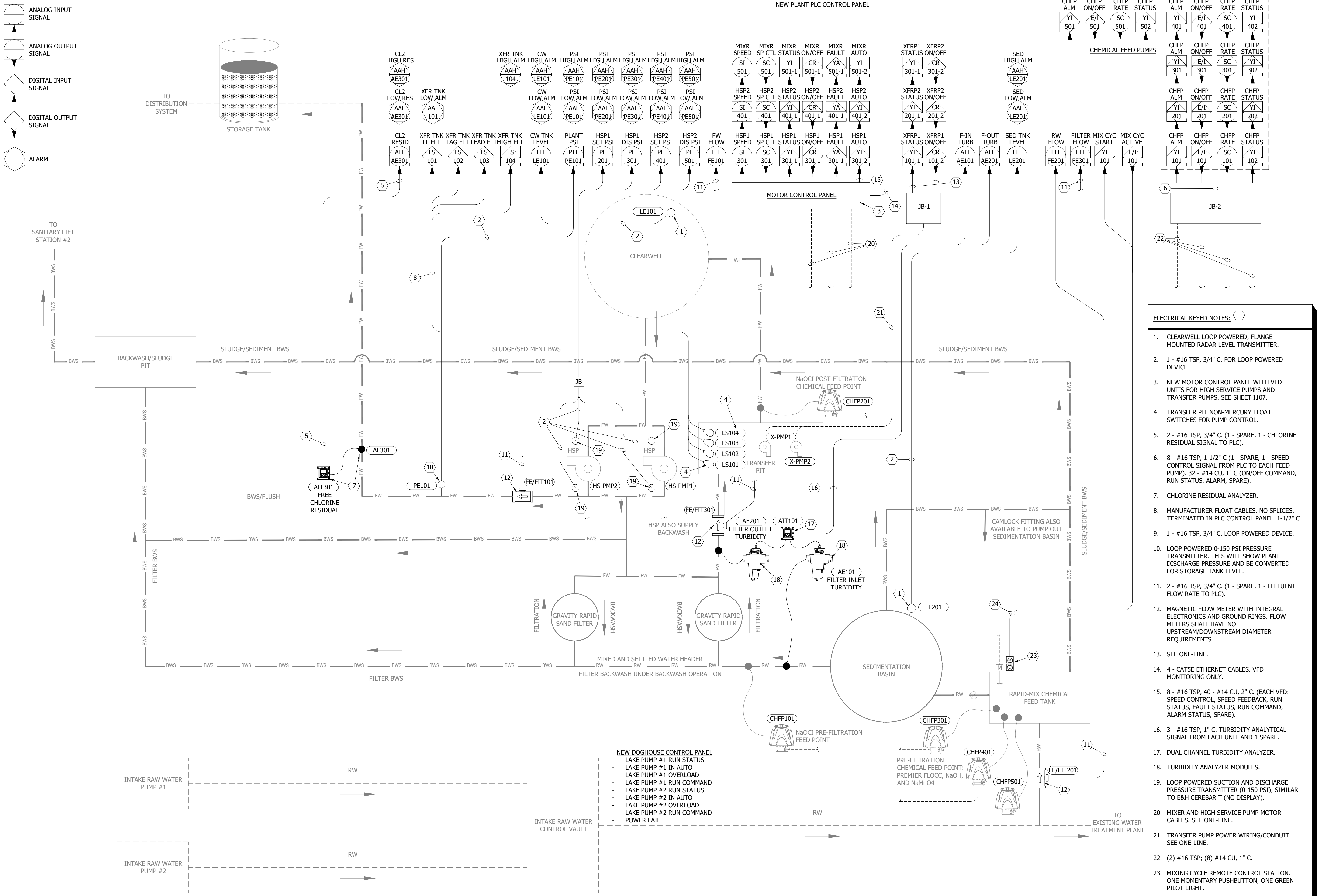


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Drawn By:	JAR
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Date:	05/16/2025



PRINT DATE: 5/21/25
PLOT SCALE: 1:1
DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\5 ACAD\PLAN SHEETS\23-400-188-1 ELECTRICAL-CONTROLS P&ID.DWG
EDITED BY: JNEED
DATE: 5/19/25 12:04 PM



RQAW

DCCM

PERMIT SET

SALT CREEK ESTATES WATER TREATMENT PLANT IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1

Designed By: JAR

Drawn By: JAR

Checked By: JAR

Date: 05/16/2025

Aaron Crow

5' 0' 5' 10'

GRAPHIC SCALE

ELECTRICAL-CONTROLS P&ID

E108

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Date: 05/16/2025



E109

Feeder Information	
Source from (PDC/Transformer Tag Name):	UTILITY POLE
Source Room number:	
Relative Source Location:	
Feeder ID Tag:	
Feeder cable size:	2 SETS 3/0
Feeder Length (m):	~20
Feeder cable (Copper/ Aluminum):	Copper
Feeder cable Type (TECK90, Armoured Cable, etc):	
Cable Derating Factor (Free air/Multi Conductor):	
Bond or Ground Wire Size:	#3 AWG
Type of Raceway(Cable Tray, EMT, etc.):	
Size of Raceway:	
Incoming Feeder CB/Fuse Rating (@ 100%or80%):	
Single Line Diagram Reference Drawing Number:	E103
General Note:	

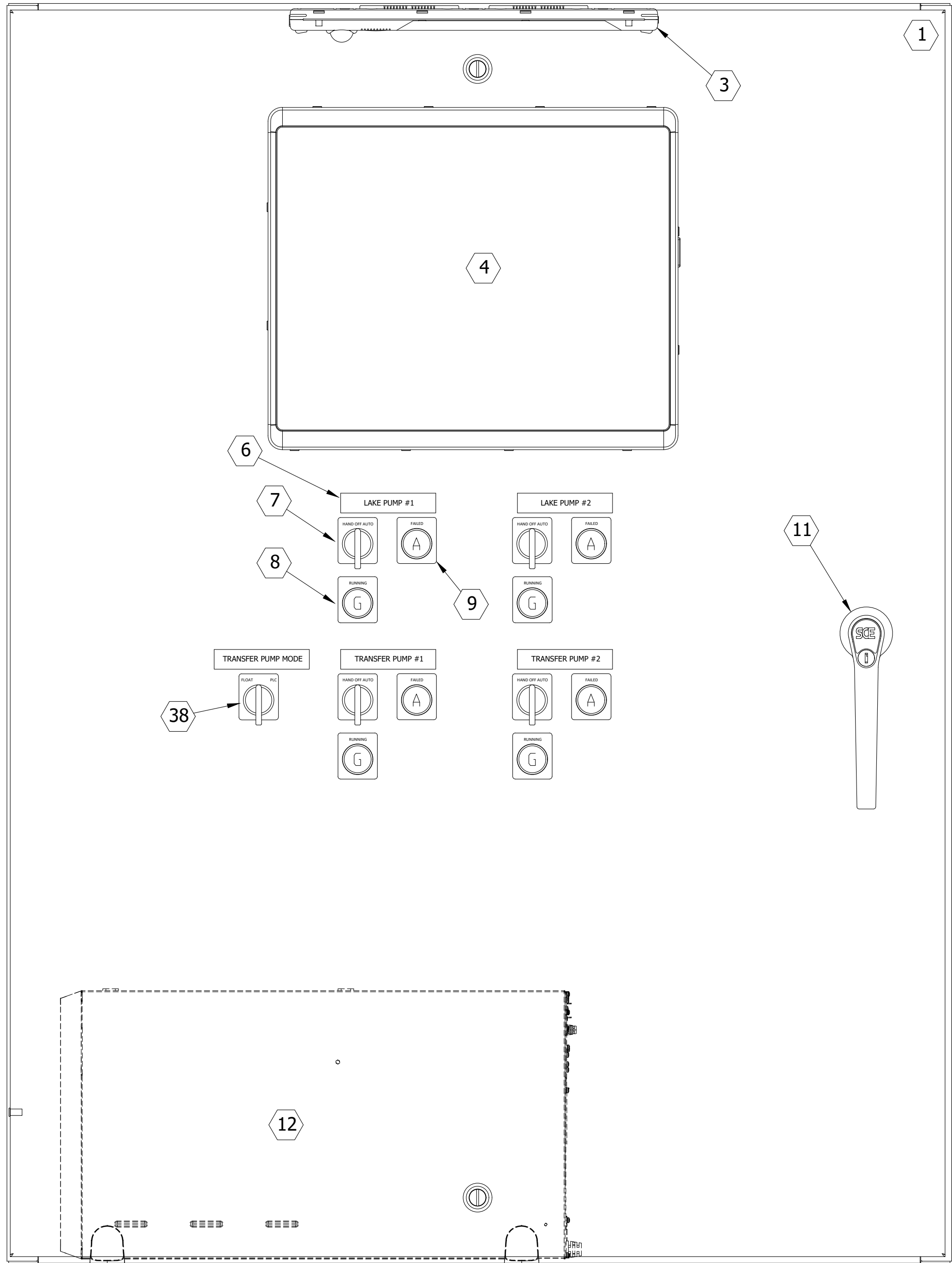
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DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\5 ACAD\PLAN SHEET\S\234001881 ELECTRICAL SCHEDULES.DWG

LIGHT FIXTURE SCHEDULE								
DESIGNATION	MANUFACTURER	CATALOG #	DESCRIPTION	WATTS	LAMP	MOUNT	VOLTAGE	REMARKS
F1	LITHONIA	EVT4 4000LM PCL WD 120 4000K 80C RI SF (120V)	INDOOR LOW-PROFILE ENCLOSED AND GASKETED INDUSTRIAL STRIP LIGHT FIXTURE	44	LED 4K LUMENS	SURFACE	120V	SINGLE FUSE
F2	LITHONIA	TWX2 LED P2 40K MVOLT PE D0BXD	WALL PACK LED WITH ADJUSTABLE 1250 - 6850 LUMENS, 4000K, DARK BRONZE	54	LED, SET FOR 5K LUMENS	SURFACE @ 10'	120V	ADJUST FOR PRELIMINARY USE AS LOWEST SETTING
F3	LITHONIA	HGX LED 2RH AL0 SWW2 120 PIR DDB	OUTDOOR MOTION ACTIVATED LED SECURITY FLOOD LIGHT, 2 ROUND HEADS, ADJ LUMEN, OUTPUT 3000K/4000K/5000K COLOR TEMP, WITH DUSK TO DAWN PHOTOCCELL, BRONZ	36	LED, SET FOR 2.6K LUMENS	SURFACE @ 10'	120V	
F4	LITHONIA	LITHONIA LIGHTING, EU2C LED OR EQUAL	EMERGENCY BATTERY PACK LIGHT FIXTURE WITH TWO LED AIMABLE HEADS	40	LED	WALL MOUNT	120V	

ELECTRICAL SCHEDULES

PRINT DATE: 5/21/25
PLOT SCALE: 1:1

DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\5 ACAD\PLAN SHEETS\234001881 SCADA SYSTEM PLC CONTROL PANEL LAYOUT DETAILS.DWG



ALL PANEL LAYOUTS AND WIRING DIAGRAMS ARE SHOWN AS A REPRESENTATION FOR MINIMUM REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE SYSTEMS INTEGRATOR OR CONTRACTORS RESPONSIBILITY FOR FINAL DESIGN AND FULLY FUNCTIONAL SYSTEM.

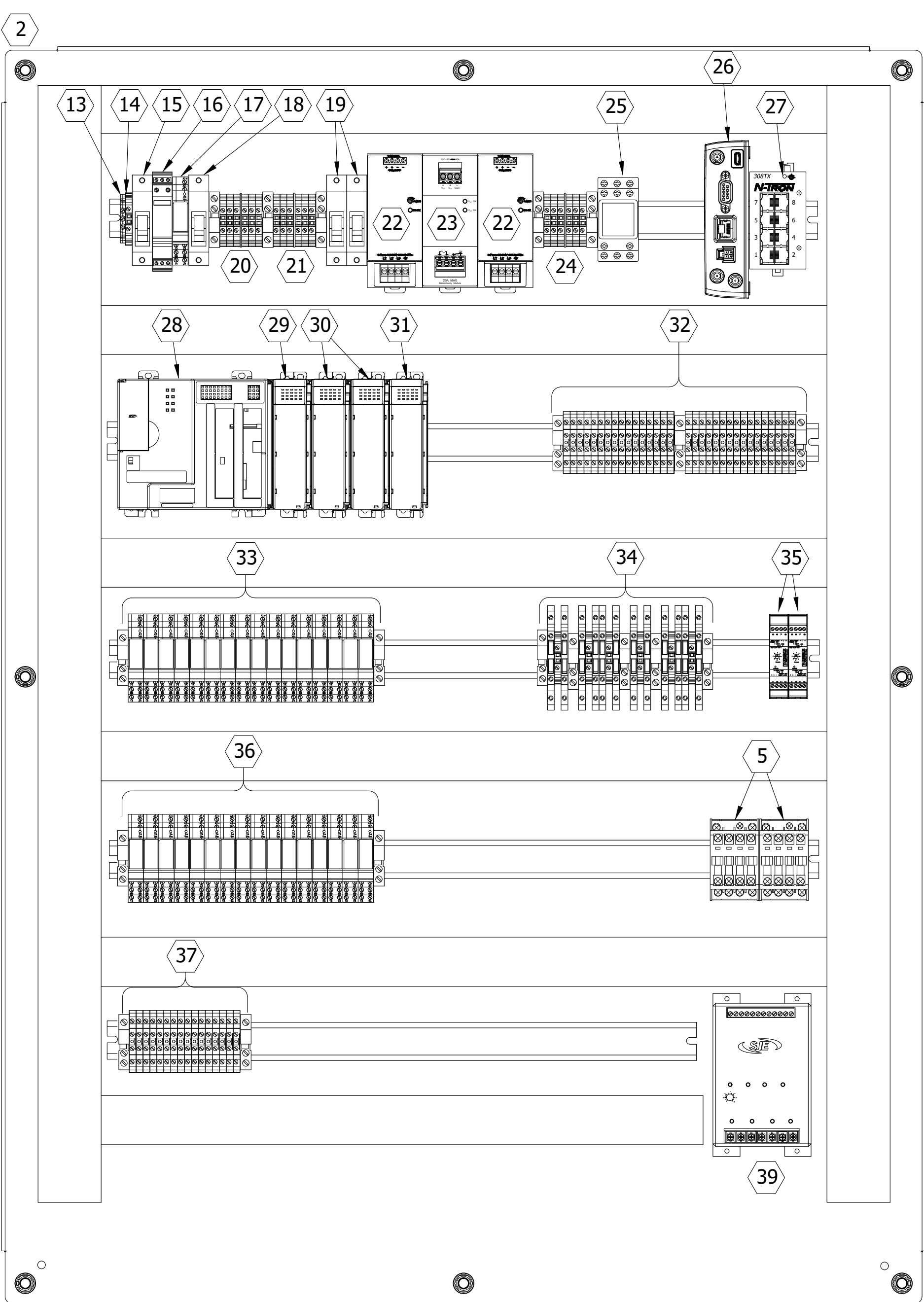
CONTROL PANEL KEYED NOTES:

1. NEW NEMA12 PAINTED STEEL ENCLOSURE - 48"X36"X12" MINIMUM.
2. NEW INTERIOR EQUIPMENT PANEL 48"X36".
3. ENCLOSURE LED LIGHTING WITH AUTOMATIC DOOR SWITCH ACTIVATION.
4. MAPLE SYSTEMS 15" HIGH PERFORMANCE HMI WITH CAPACITIVE TOUCH. PROVIDE WITH PROTECTIVE SCREEN. MAPLE SYSTEMS CMT3152XV2 OR APPROVED EQUAL.
5. TRANSFER PUMP CONTACTORS. MINIMUM 15A CONTACT RATING.
6. PHENOLIC TAG, ENGRAVED. BLACK LETTERS ON WHITE/OFF-WHITE SURFACE. SELF-ADHESIVE. TYPICAL.
7. 30.5MM PILOT DEVICE: 3-POSITION SWITCH, HAND-OFF-AUTO (HOA). TYPICAL.
8. 30.5MM PILOT DEVICE: GREEN LED PILOT LIGHT WITH PUSH-TO-TEST (PTT) FUNCTION FOR RUNNING STATUS. TYPICAL.
9. 30.5MM PILOT DEVICE: AMBER LED PILOT LIGHT WITH PUSH-TO-TEST (PTT) FUNCTION FOR FAILED/ALARM CONDITION. TYPICAL.
10. NOT USED.
11. LOCKABLE 3-POINT LATCH HANDLE.
12. TRIPP LITE SMART, DUAL CONVERSION UPS SU1500XL OR APPROVED EQUAL.

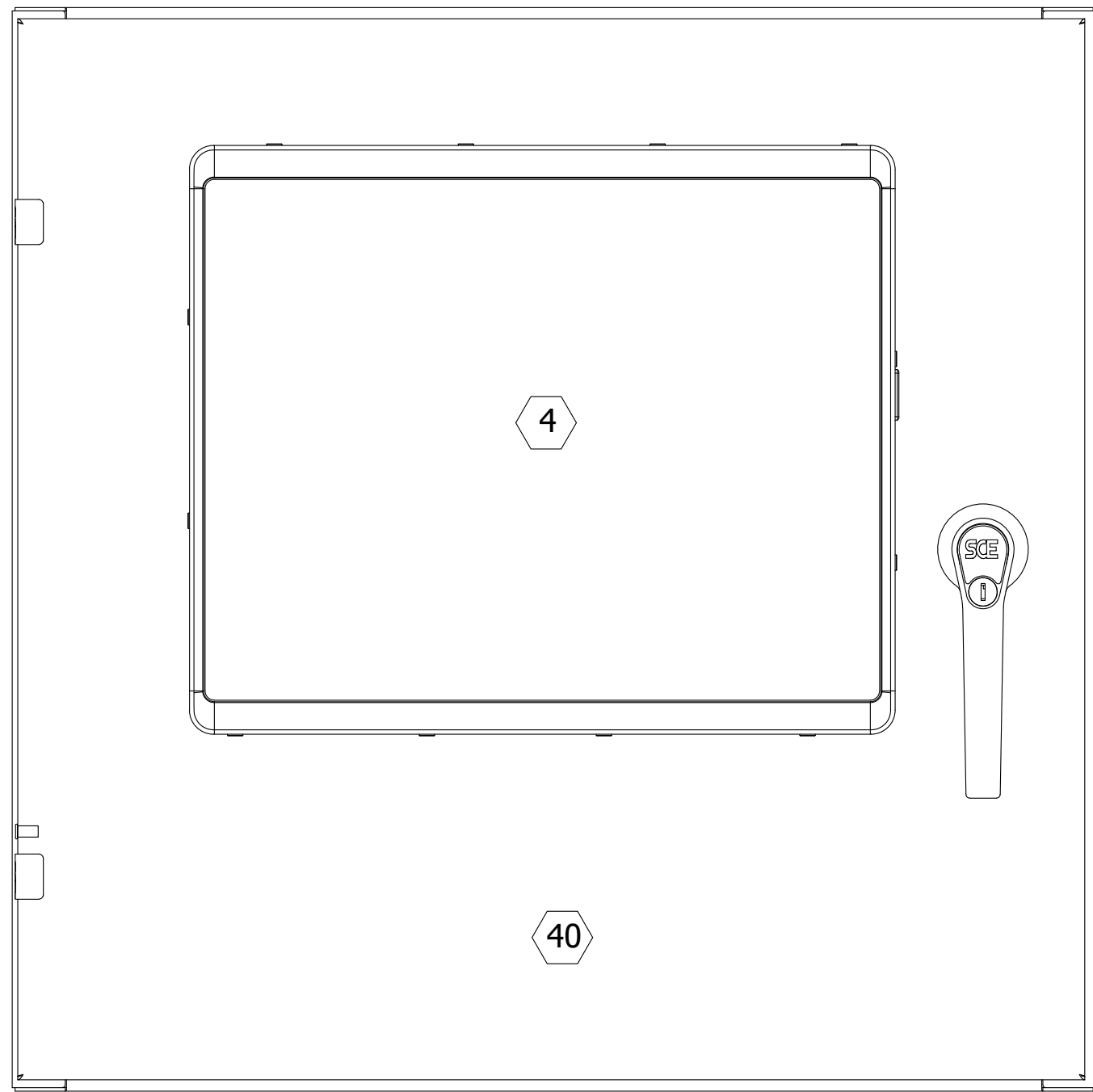
13. FIELD POWER GROUND TERMINAL BLOCK.
14. FIELD POWER NEUTRAL TERMINAL BLOCK.
15. FIELD POWER 120V 20A CIRCUIT BREAKER.
16. 120V MAIN POWER SURGE PROTECTION DEVICE.
17. 120V CONTROL POWER LOSS RELAY.
18. UPS FEED POWER 120V 15A CIRCUIT BREAKER.
19. 24 VDC POWER SUPPLY #1 PROTECTION CIRCUIT BREAKERS (120V SIDE).
20. 120VAC POWER DISTRIBUTION TERMINAL BLOCKS.
21. UPS FED 120V DISTRIBUTION TERMINAL BLOCKS.
22. 24 VDC POWER SUPPLIES - MINIMUM 5A.
23. 24VDC POWER 5A SUPPLY REDUNDANCY MODULE.
24. 24VDC POWER DISTRIBUTION BLOCKS.
25. UPS FAIL-OVER CONTACTOR/RELAY. 20A CONTACT RATING MINIMUM.
26. SIERRA WIRELESS RV50X CELL MODEM OR APPROVED EQUAL. OPTIONALLY, PROVIDE THE FLEXY 205 MODULE WITH CELL MODEM OPTION. PROVIDE ANTENNA OUTSIDE OF CABINET.

27. INDUSTRIAL RATED UNMANAGED ETHERNET SWITCH - 8 PORT MINIMUM. REDLION OR EQUAL.
28. ALLEN BRADLEY COMPACTLOGIX L24ER PLC WITH EMBEDDED IO.
29. ALLEN BRADLEY COMPACTLOGIX 16 POINT DIGITAL INPUT MODULE.
30. ALLEN BRADLEY COMPACTLOGIX 8 POINT ANALOG INPUT MODULE.
31. ALLEN BRADLEY COMPACTLOGIX 4 POINT ANALOG OUTPUT MODULE.
32. DIGITAL INPUT FIELD TERMINATION BLOCKS.
33. DIGITAL OUTPUT ISOLATION RELAYS.
34. ANALOG INPUT ISOLATOR/TERMINAL BLOCKS.
35. ANALOG SIGNAL SPLITTER. THIS WILL SPLIT THE SECONDARY SIGNALS BETWEEN THE PLC AND BACKUP CONTROLLER. SIMILAR TO ACROMAG 633T.
36. AUXILIARY RELAYS FOR BACKUP CONTROL.
37. MISCELLANEOUS FIELD TERMINAL BLOCKS - AS NEEDED.
38. TRANSFER PUMP MODE SELECTION SWITCH.
39. TRANSFER PUMP FLOAT MODE CONTROLLER. SIMILAR TO SJE RHOMBUS DP4-4F.

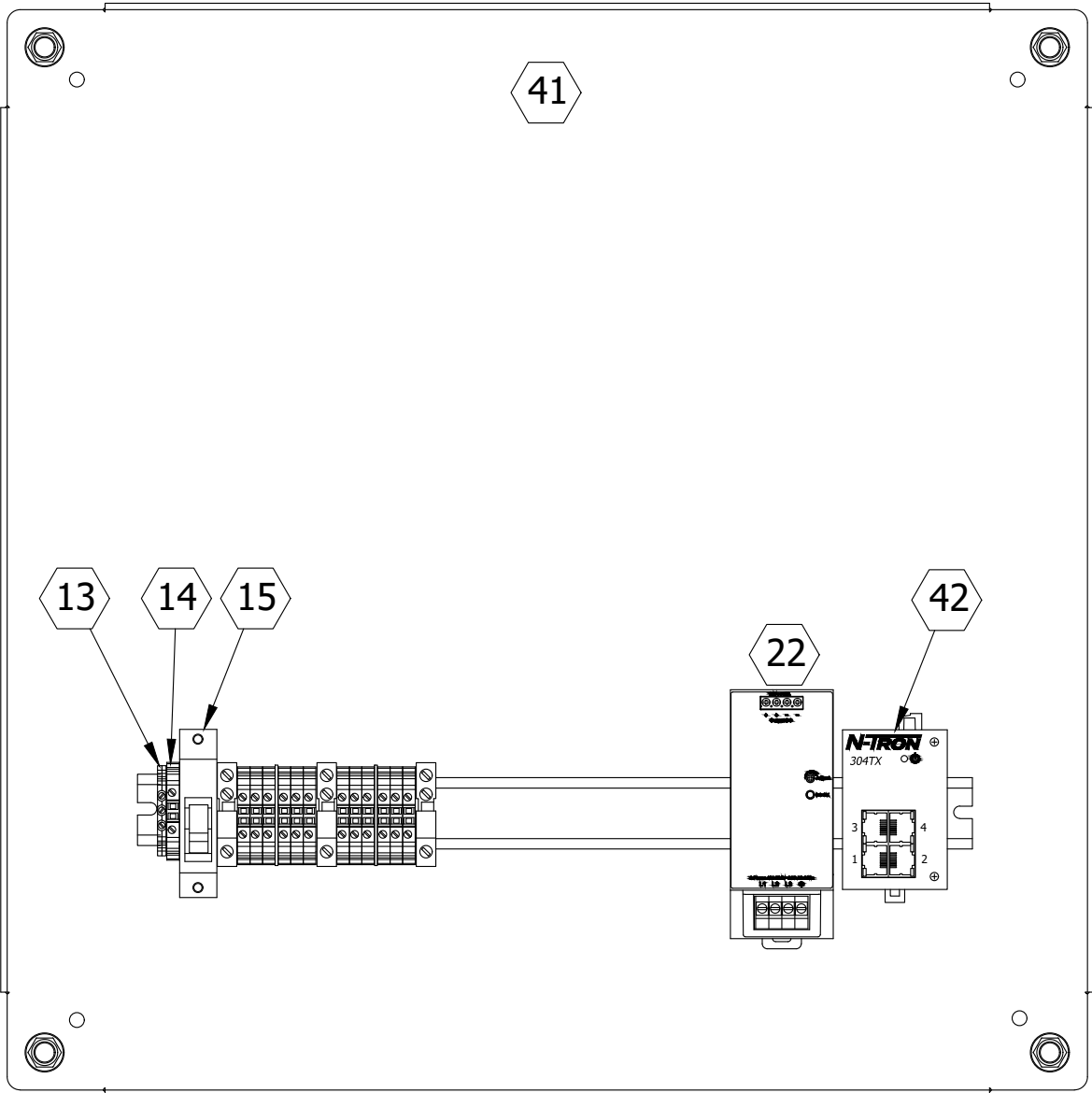
40. NEMA12 REMOTE DISPLAY CONTROL PANEL. 24"X24"X10".
41. 24"X24" EQUIPMENT PANEL.
42. 4 PORT ETHERNET SWITCH.



MAIN SCADA CONTROL PANEL DETAILS (MSCP)



OFFICE REMOTE HMI PANEL DETAILS



PERMIT SET
SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS
9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

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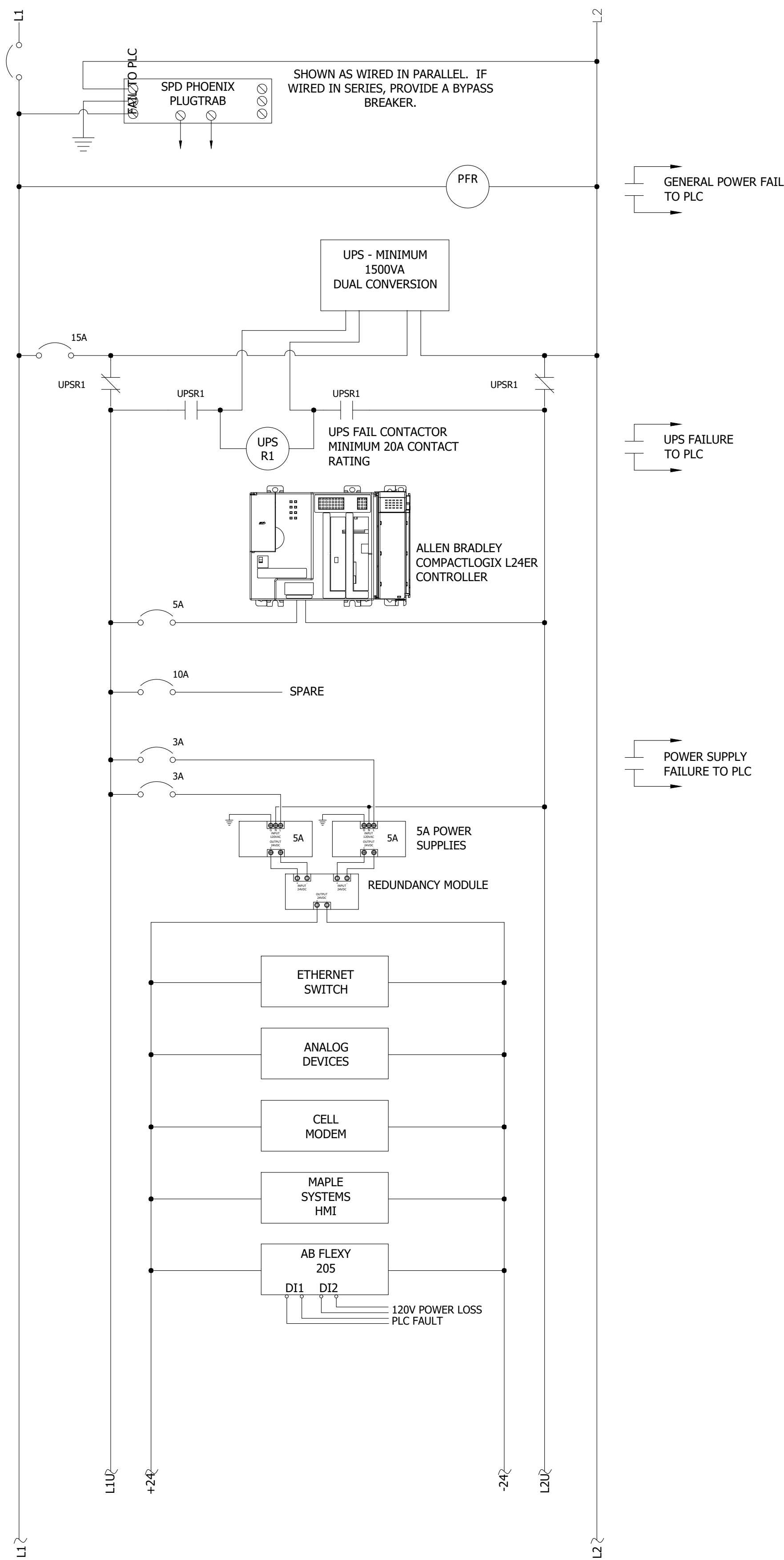
Date: 05/16/2025



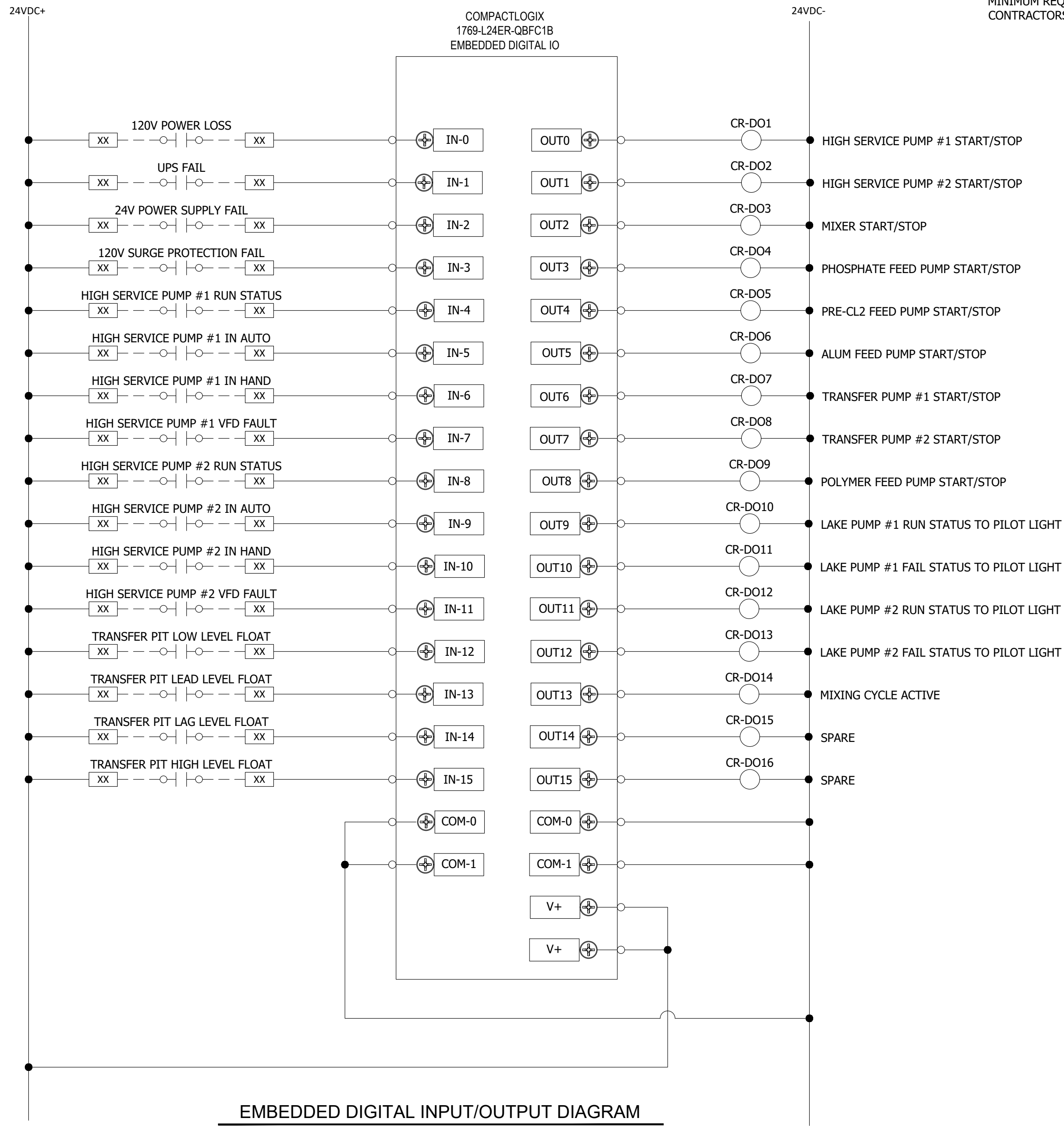
Aaron Crow



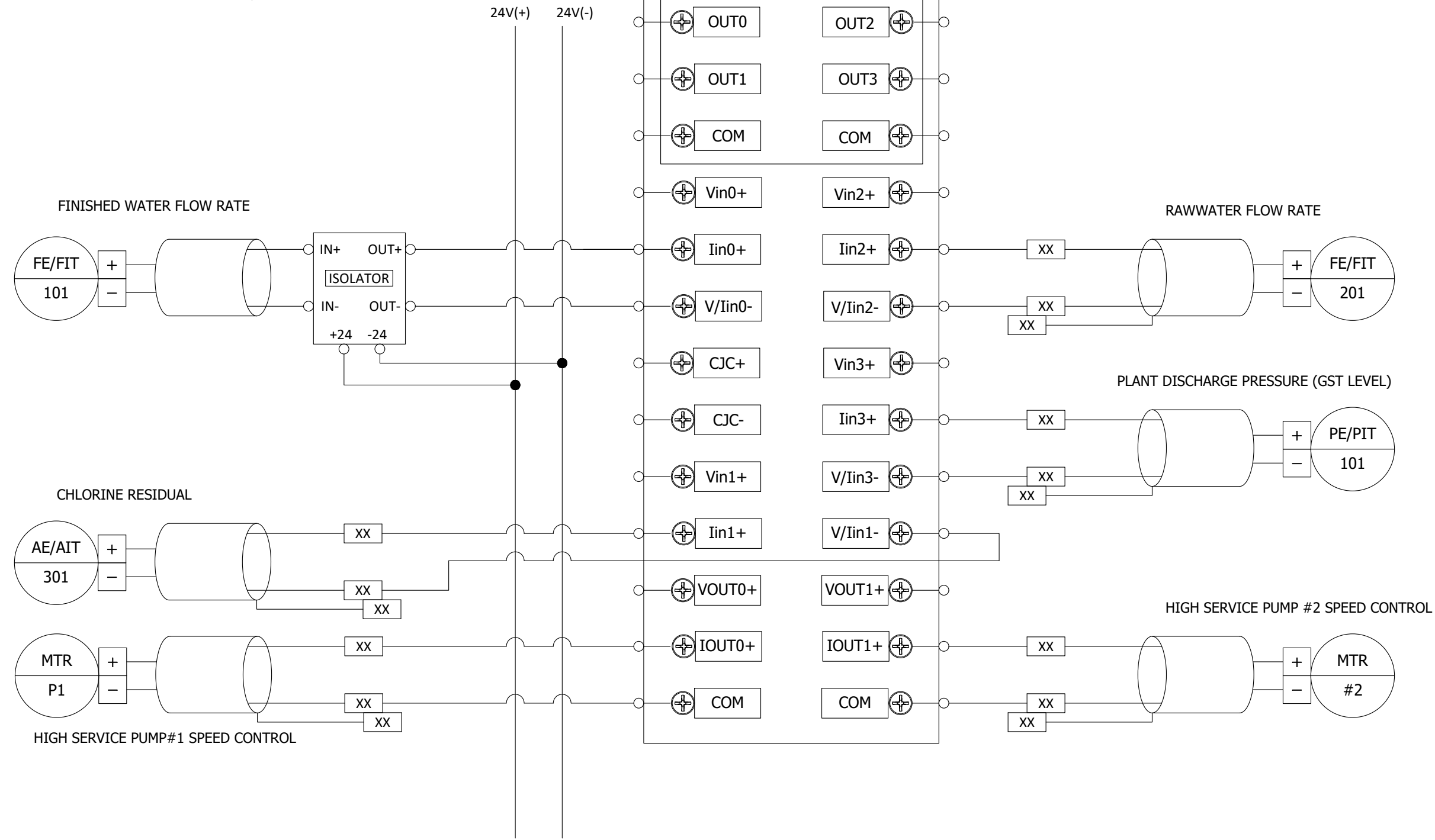
SCADA SYSTEM PLC
CONTROL PANEL LAYOUT
DETAILS



POWER DISTRIBUTION WIRING DIAGRAM



EMBEDDED DIGITAL INPUT/OUTPUT DIAGRAM



ALL PANEL LAYOUTS AND WIRING DIAGRAMS ARE SHOWN AS A REPRESENTATION FOR MINIMUM REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE SYSTEMS INTEGRATOR OR CONTRACTORS RESPONSIBILITY FOR FINAL DESIGN AND FULLY FUNCTIONAL SYSTEM.



PERMIT SET

SALT CREEK ESTATES WATER TREATMENT PLANT IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

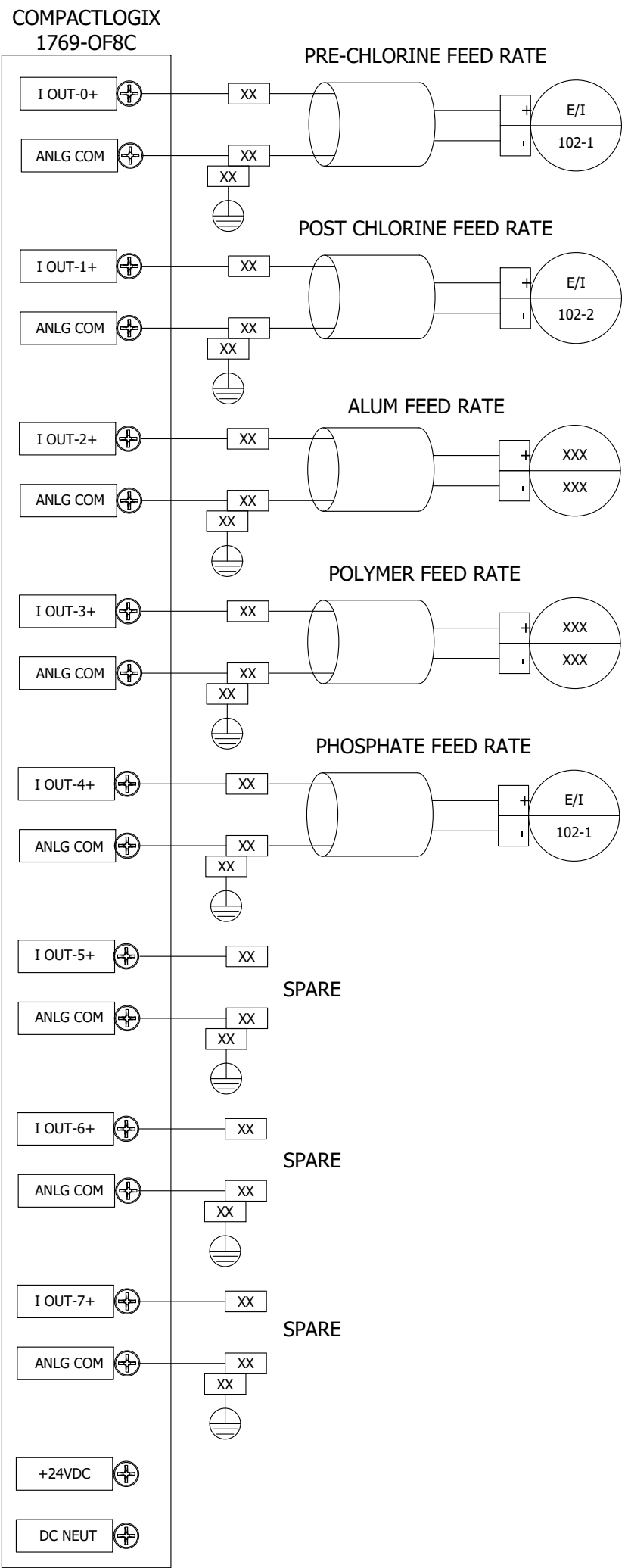
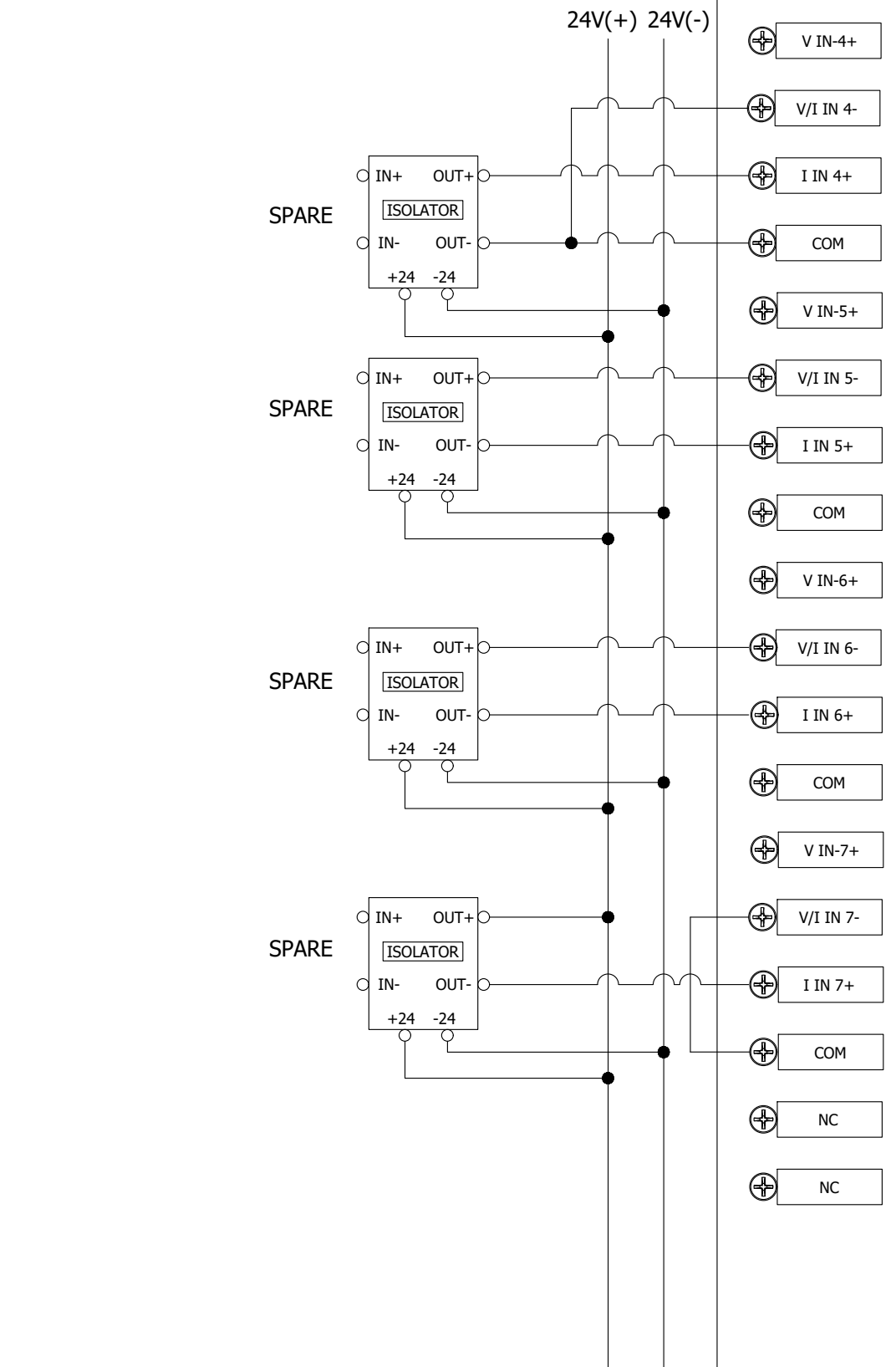
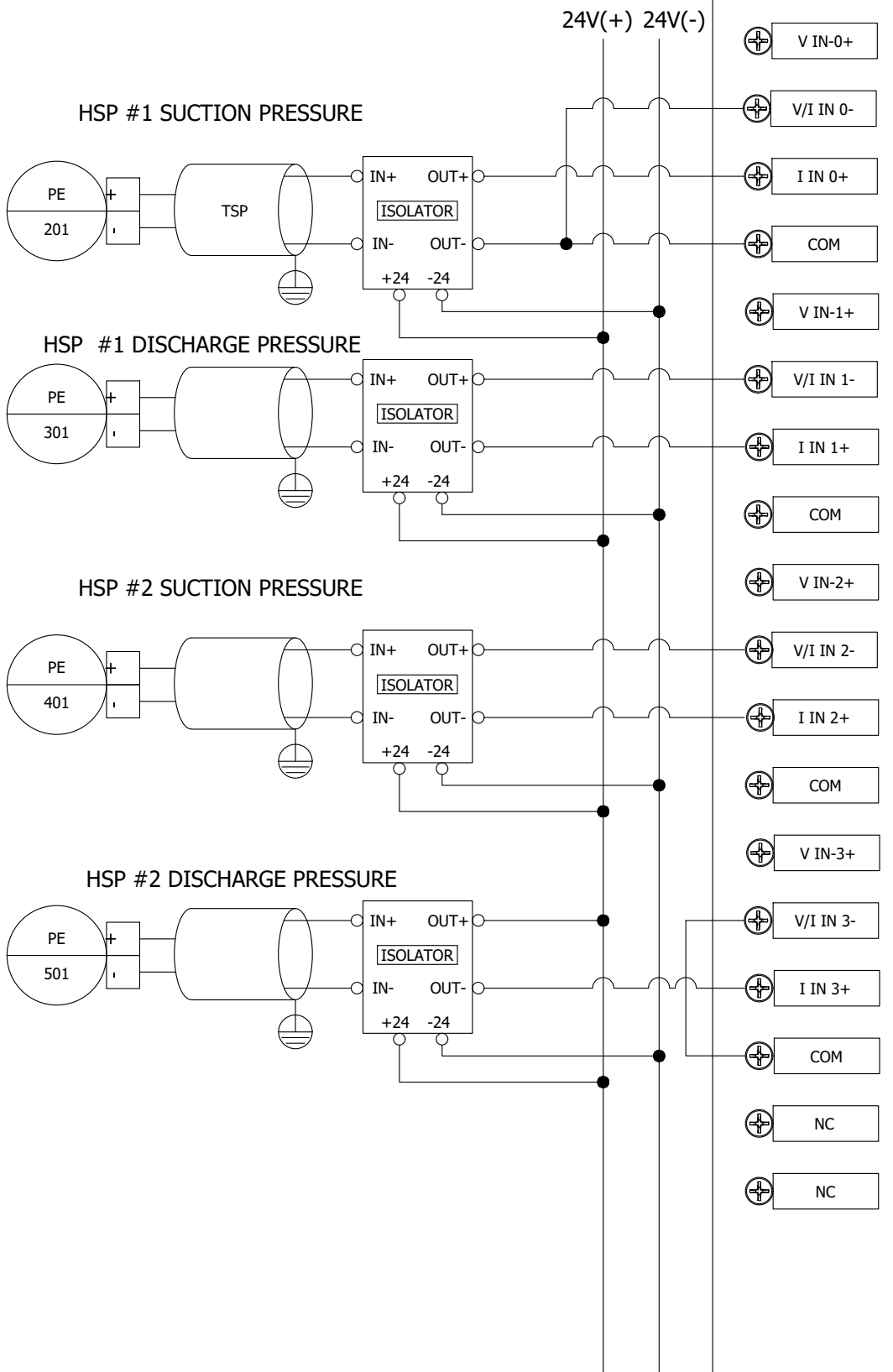
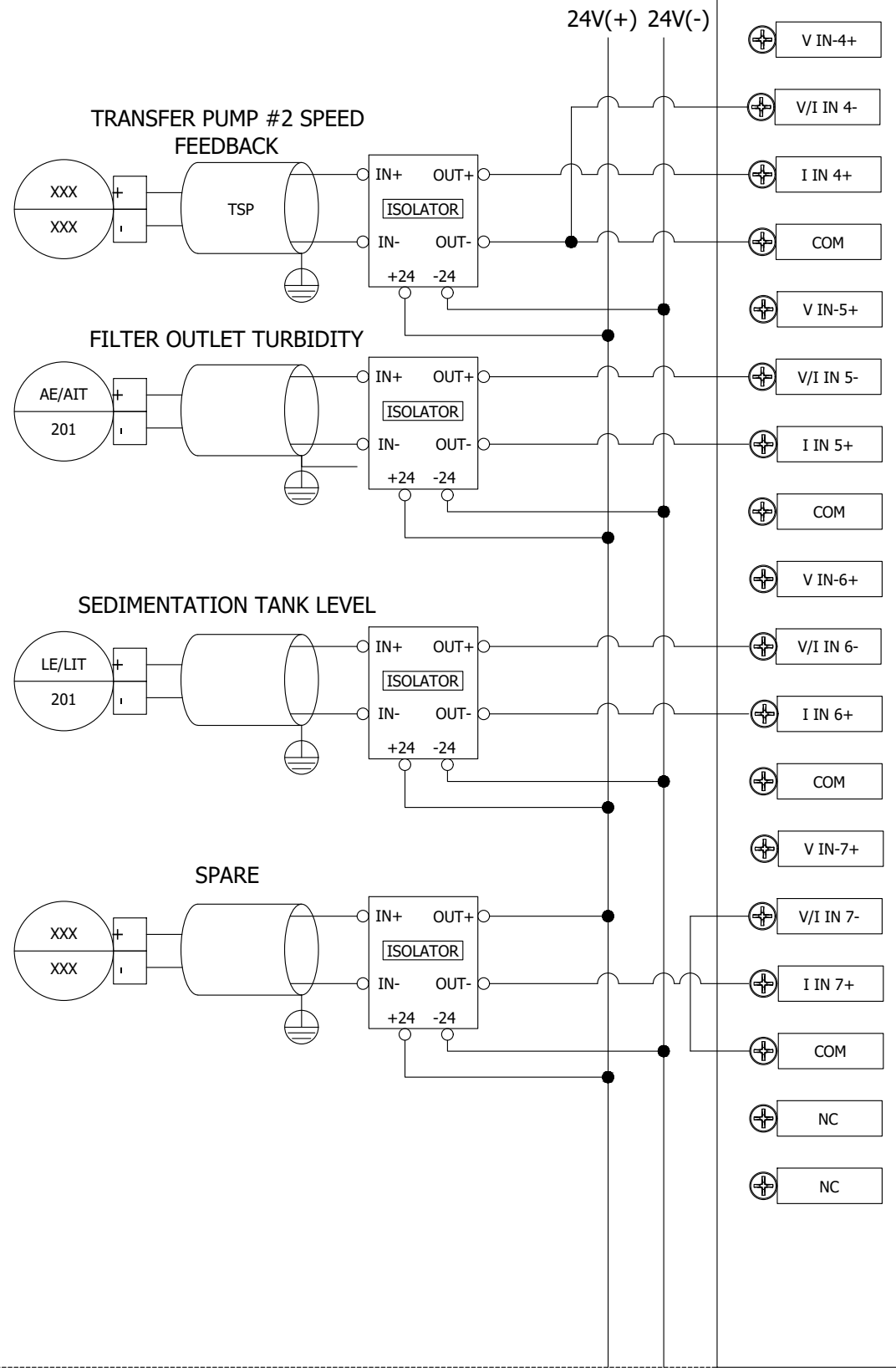
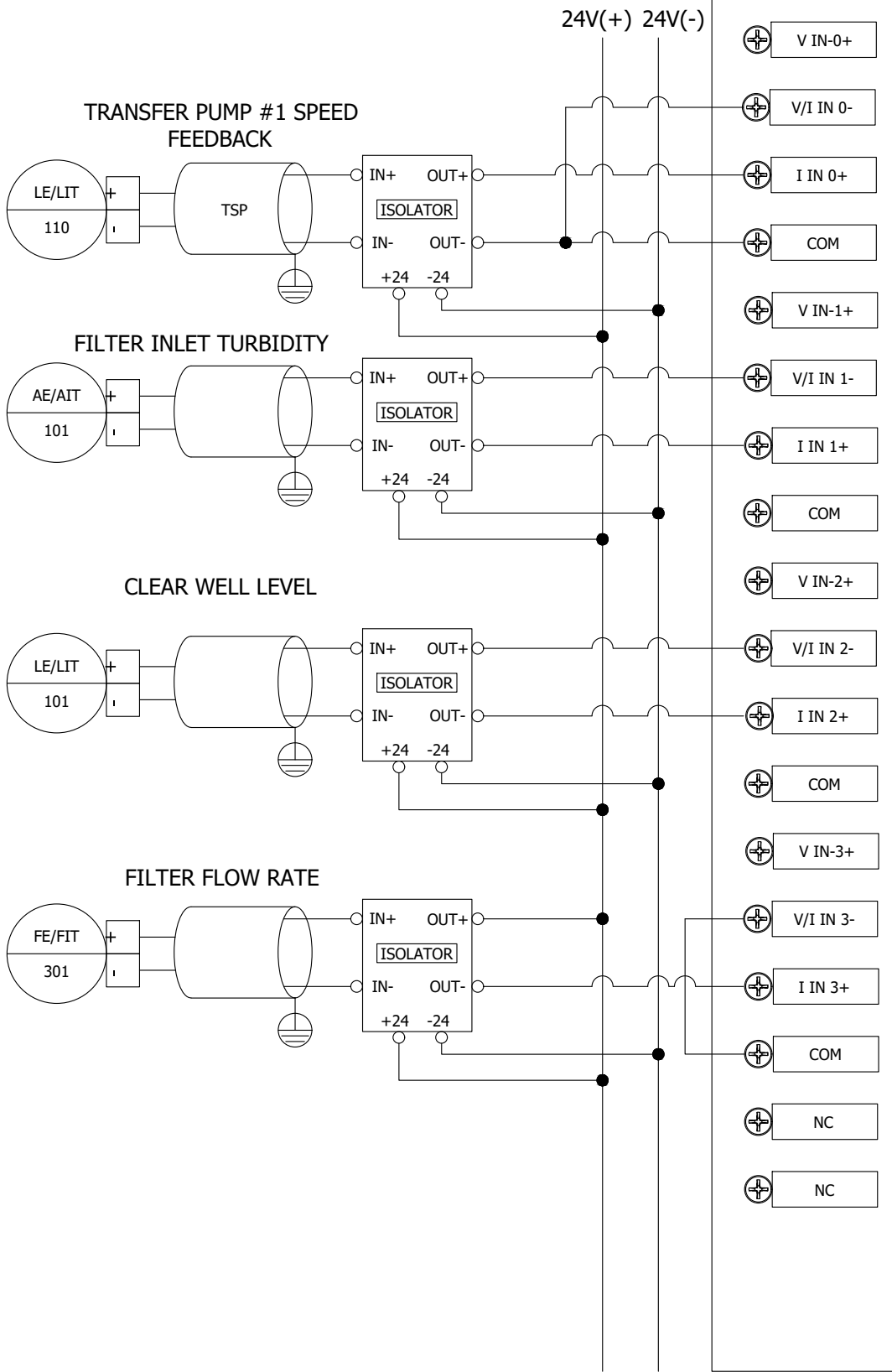
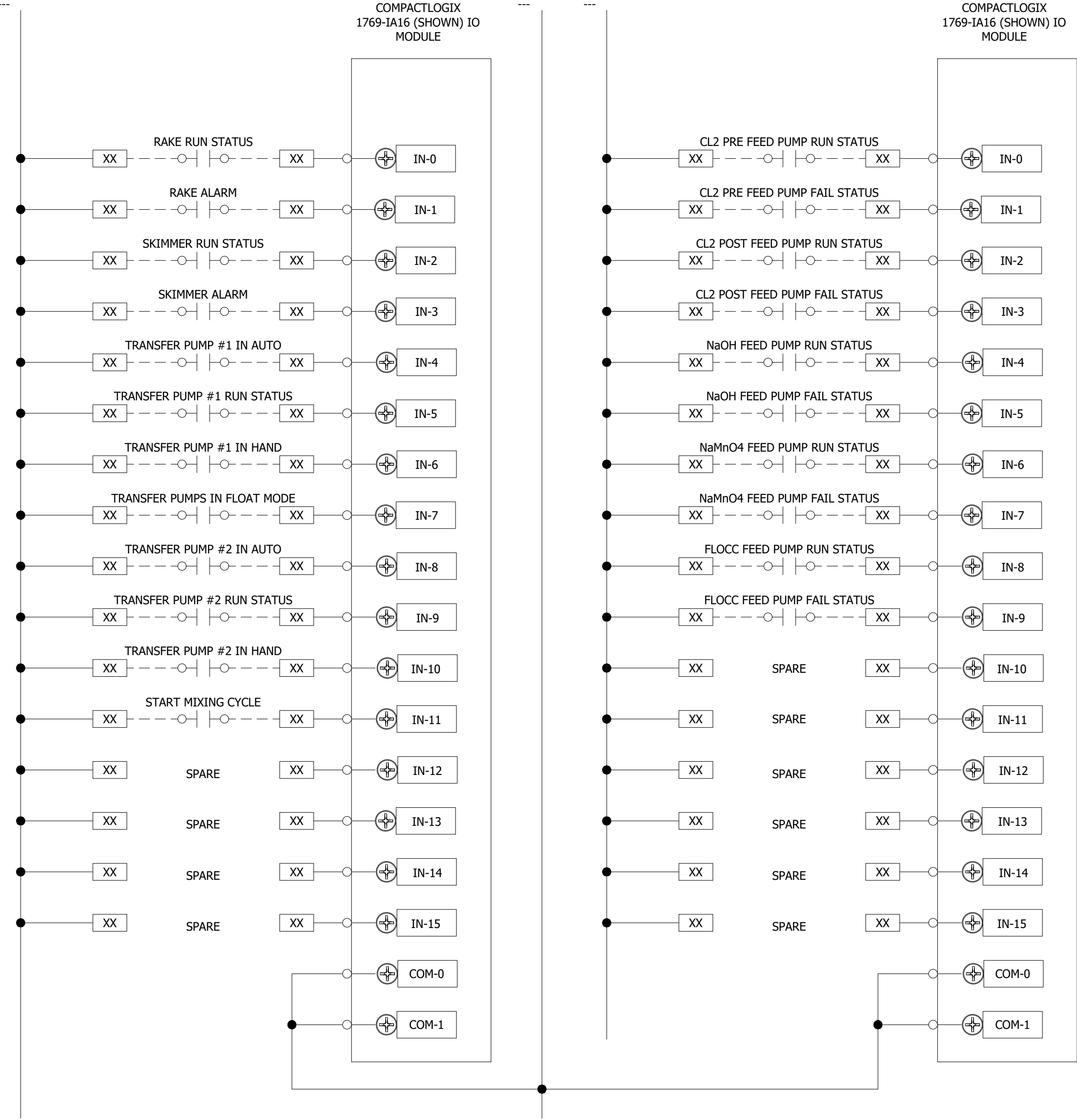
#	Revision	Date

Project #: 23-400-188-1
Designed By: JAR
Drawn By: JAR
Checked By: JAR
Date: 05/16/2025

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SCADA SYSTEM PLC
CONTROL PANEL WIRING
DIAGRAM 1

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PERMIT SET

SALT CREEK ESTATES WATER TREATMENT PLANT IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

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SCADA SYSTEM PLC
CONTROL PANEL WIRING
DIAGRAM 2

I103

SALT CREEK ESTATES WATER TREATMENT PLANT IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

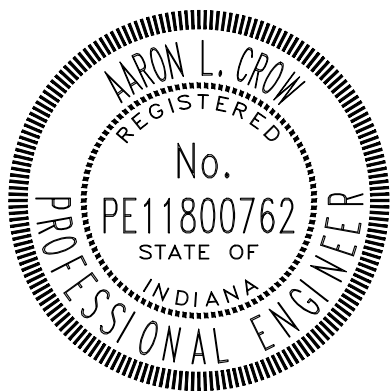
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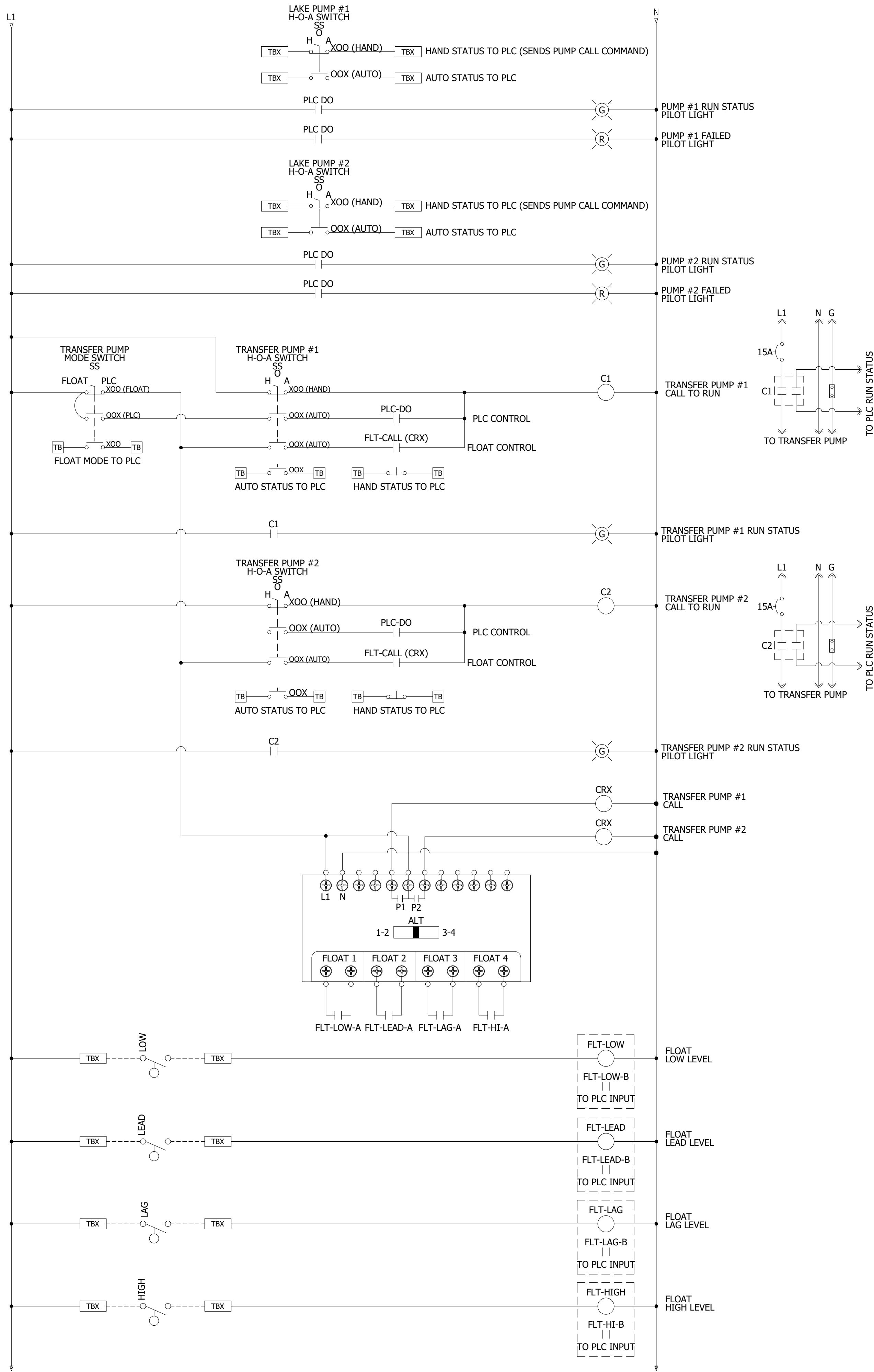


Alaron Crew



SCADA SYSTEM PLC CONTROL PANEL WIRING DIAGRAM 3

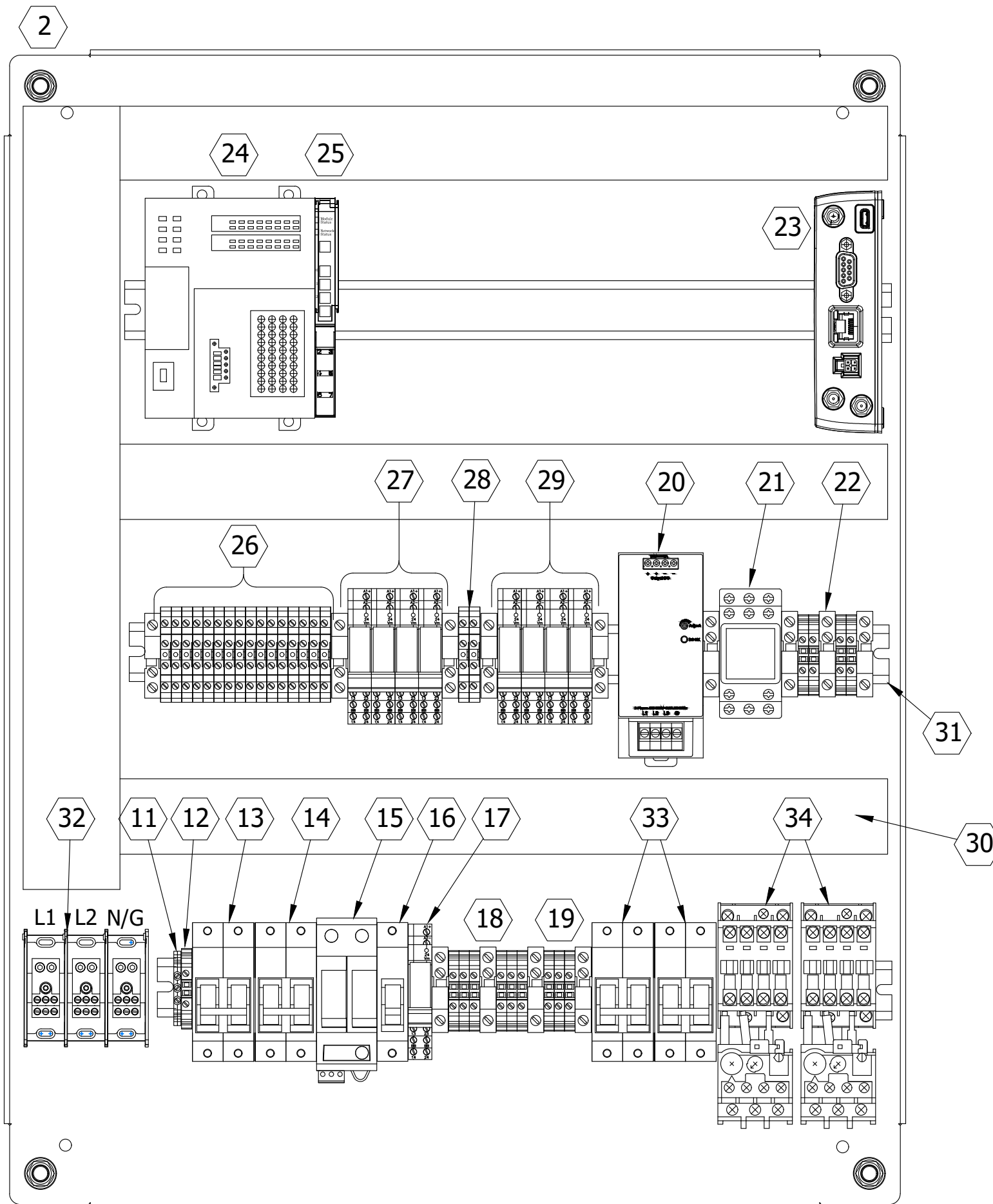
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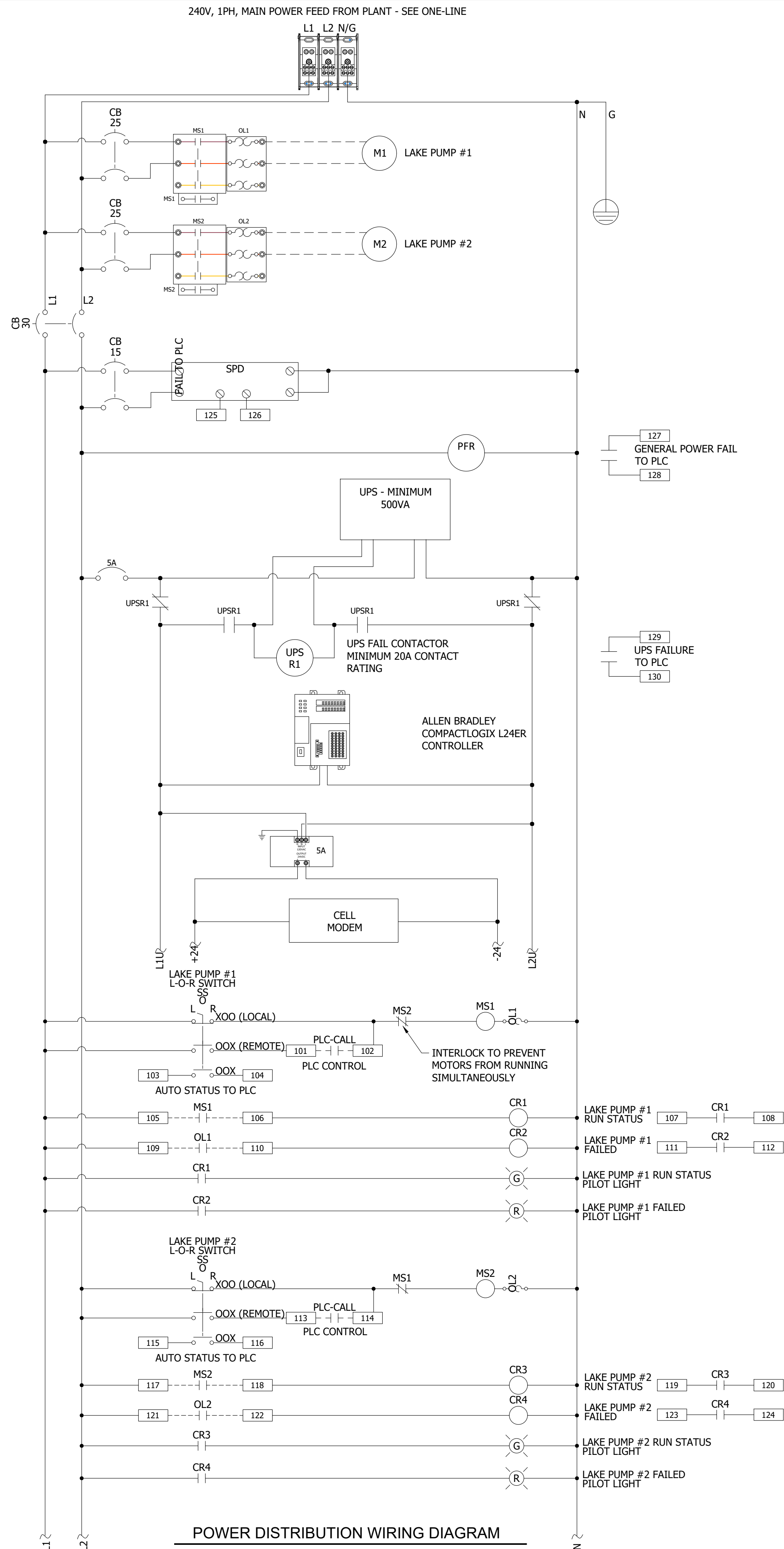
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DOGHOUSE PLC CONTROL PANEL - LOCATED INSIDE DOGHOUSE - WALL MOUNT



1. NEW NEMA4X STAINLESS STEEL ENCLOSURE - 30"X24"X8" MINIMUM. (NOTE: LARGEST PANEL SIZE THAT CAN FIT THROUGH OPENING IS 30X36X10)	14. 2P, 15A CIRCUIT BREAKER FOR SPD.	28. ANALOG INPUT TERMINAL BLOCKS.
2. NEW INTERIOR EQUIPMENT PANEL 30"X24".	15. 240V MAIN POWER SURGE PROTECTION DEVICE (SPD). SIMILAR TO AUTOMATIONDIRECT 908195.	29. AUXILIARY RELAYS FOR BACKUP CONTROL.
3. ENCLOSURE LED LIGHTING WITH AUTOMATIC DOOR SWITCH ACTIVATION.	16. 120V, 5A CIRCUIT BREAKER FOR CONTROL CIRCUIT.	30. WIRE DUCT - HIGH DENSITY TYPE - GREY.
4. CELL MODEM ANTENNAE.	17. 120V CONTROL POWER LOSS RELAY.	31. DIN RAIL.
5. PHENOLIC TAG, ENGRAVED. BLACK LETTERS ON WHITE/OFF-WHITE SURFACE. SELF-ADHESIVE. TYPICAL.	18. 240V (L1 AND L2) DISTRIBUTION TERMINAL BLOCKS.	32. MAIN POWER DISTRIBUTION BLOCK. MINIMUM 60A RATING.
6. 30.5MM PILOT DEVICE: 3-POSITION SWITCH, HAND-OFF-AUTO (HOA). TYPICAL.	19. 240V NEUTRAL DISTRIBUTION TERMINAL BLOCKS.	33. 2 POLE, 25A MOTOR PROTECTION UL489 CIRCUIT BREAKERS.
7. 30.5MM PILOT DEVICE: GREEN LED PILOT LIGHT WITH PUSH-TO-TEST (PTT) FUNCTION FOR RUNNING STATUS. TYPICAL.	20. 24 VDC, 3A POWER SUPPLY.	34. IEC MOTOR STARTER WITH SOLID STATE OVERLOAD. MINIMUM 25A RATING.
8. 30.5MM PILOT DEVICE: AMBER LED PILOT LIGHT WITH PUSH-TO-TEST (PTT) FUNCTION FOR FAILED/ALARM CONDITION. TYPICAL.	21. 120VAC POWER DISTRIBUTION TERMINAL BLOCKS.	
9. LOCKABLE 3-POINT LATCH HANDLE.	22. UPS FAIL-OVER CONTACTOR/RELAY. 20A CONTACT RATING MINIMUM.	
10. 500VA UPS FOR PLC BACKUP. SIMILAR TO APC BK500BLK.	23. SIERRA WIRELESS RV50X CELL MODEM OR APPROVED EQUAL. EACH CELL MODEM SHALL BE SETUP WITH CUSTOMER SERVICE PROVIDER AND FULLY TESTED. THE CELL SERVICE SHALL BE SETUP ON PRIVATE SERVICE WITH HIGH LEVEL PROTECTION.	
11. FIELD POWER GROUND TERMINAL BLOCK.	24. ALLEN BRADLEY COMPACTLOGIX I16ER PLC WITH EMBEDDED IO.	
12. FIELD POWER NEUTRAL TERMINAL BLOCK.	25. ALLEN BRADLEY 1734 4 POINT ANALOG INPUT MODULE.	
13. FIELD POWER 240V, 30A 2P CIRCUIT BREAKER.	26. DIGITAL INPUT FIELD TERMINATION BLOCKS.	
	27. DIGITAL OUTPUT ISOLATION RELAYS.	

28. ANALOG INPUT TERMINAL BLOCKS.
29. AUXILIARY RELAYS FOR BACKUP CONTROL.
30. WIRE DUCT - HIGH DENSITY TYPE - GREY.
31. DIN RAIL.
32. MAIN POWER DISTRIBUTION BLOCK. MINIMUM 60A RATING.
33. 2 POLE, 25A MOTOR PROTECTION UL489 CIRCUIT BREAKERS.
34. IEC MOTOR STARTER WITH SOLID STATE OVERLOAD. MINIMUM 25A RATING.



POWER DISTRIBUTION WIRING DIAGRAM



PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, TN 47448

PERMIT SET

#	Revision	Date

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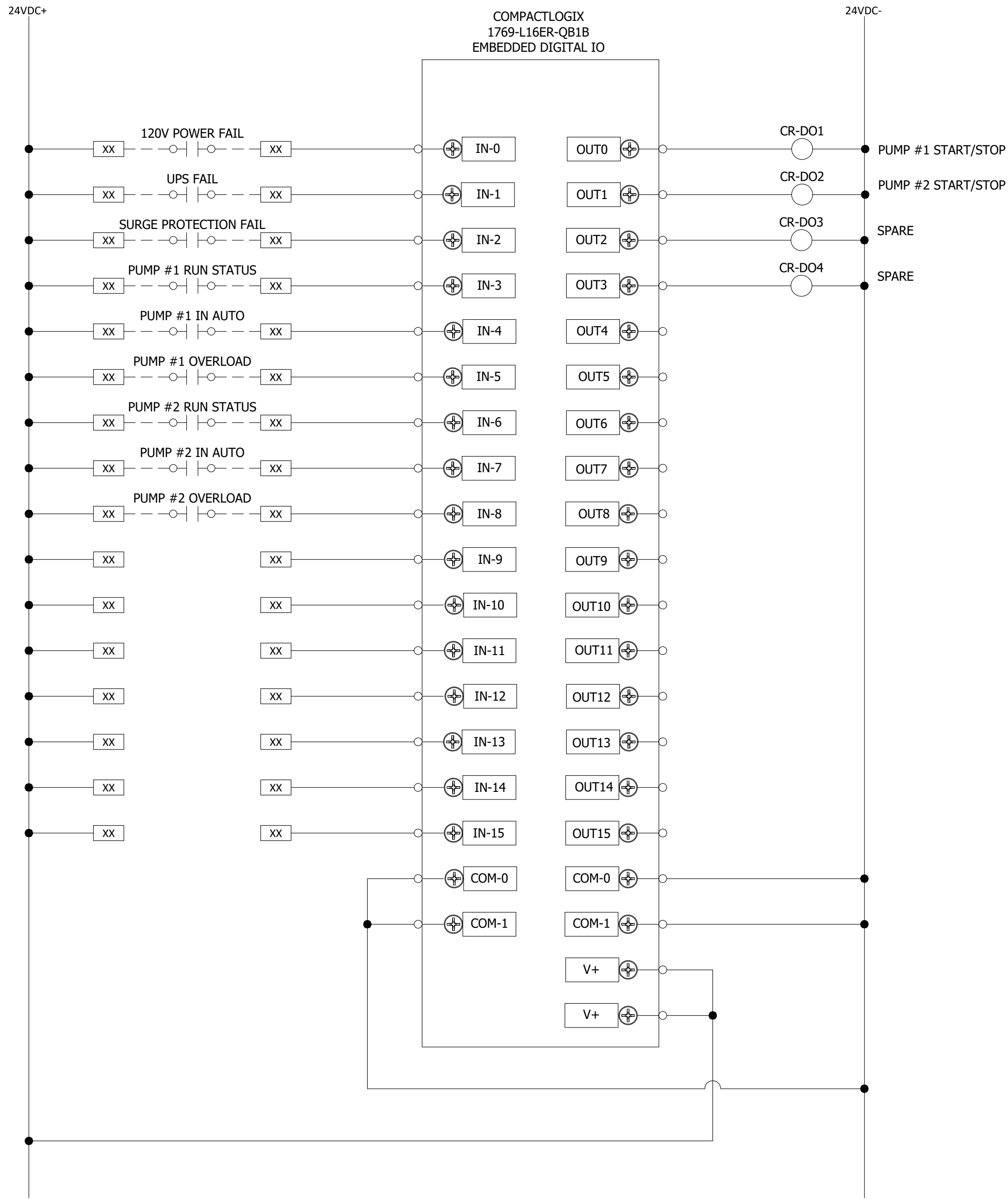
Alaron Crew



DOGHOUSE PLC CONTROL PANEL LAYOUT

I105

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PLC DIGITAL INPUT/OUTPUT WIRING DIAGRAM

PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

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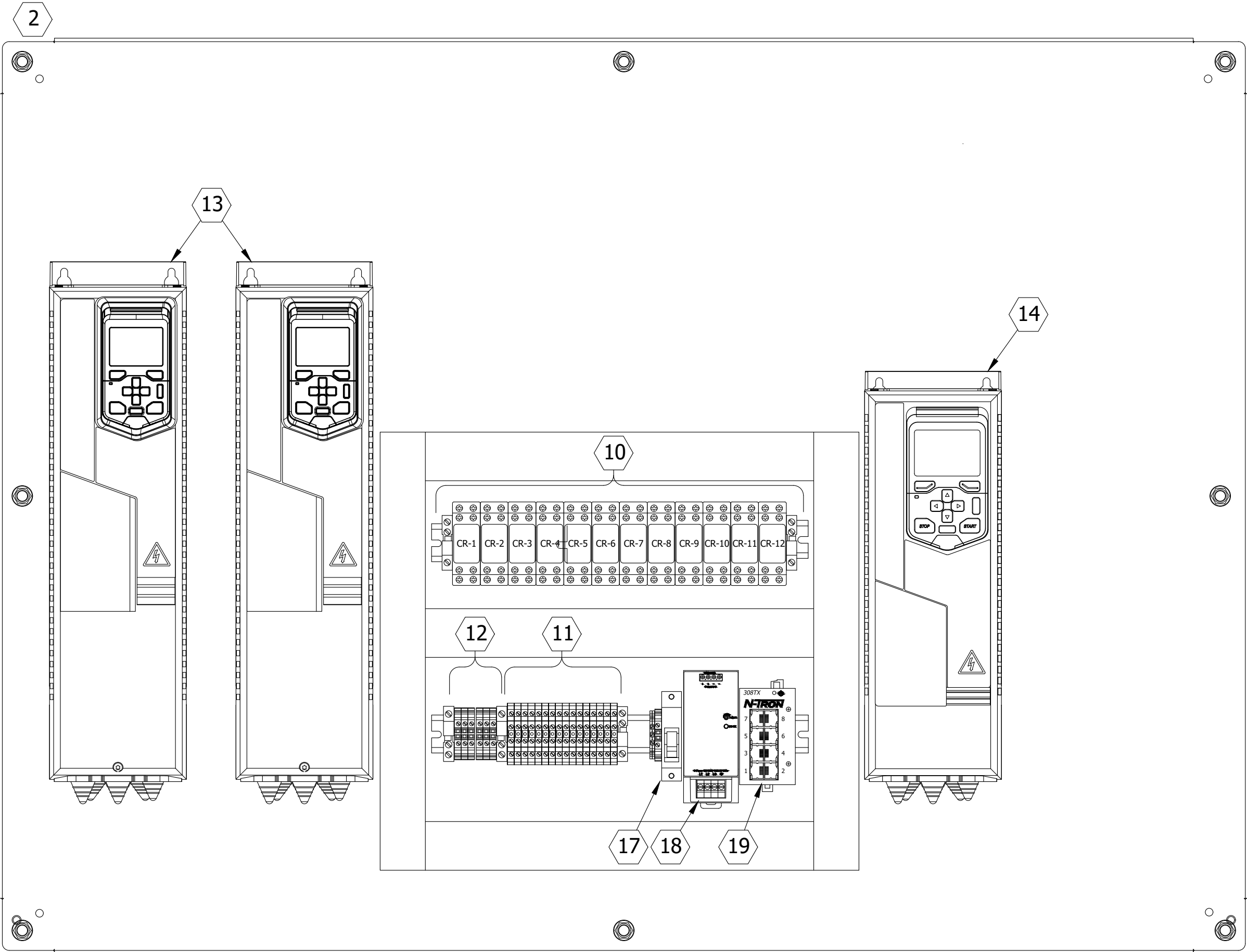
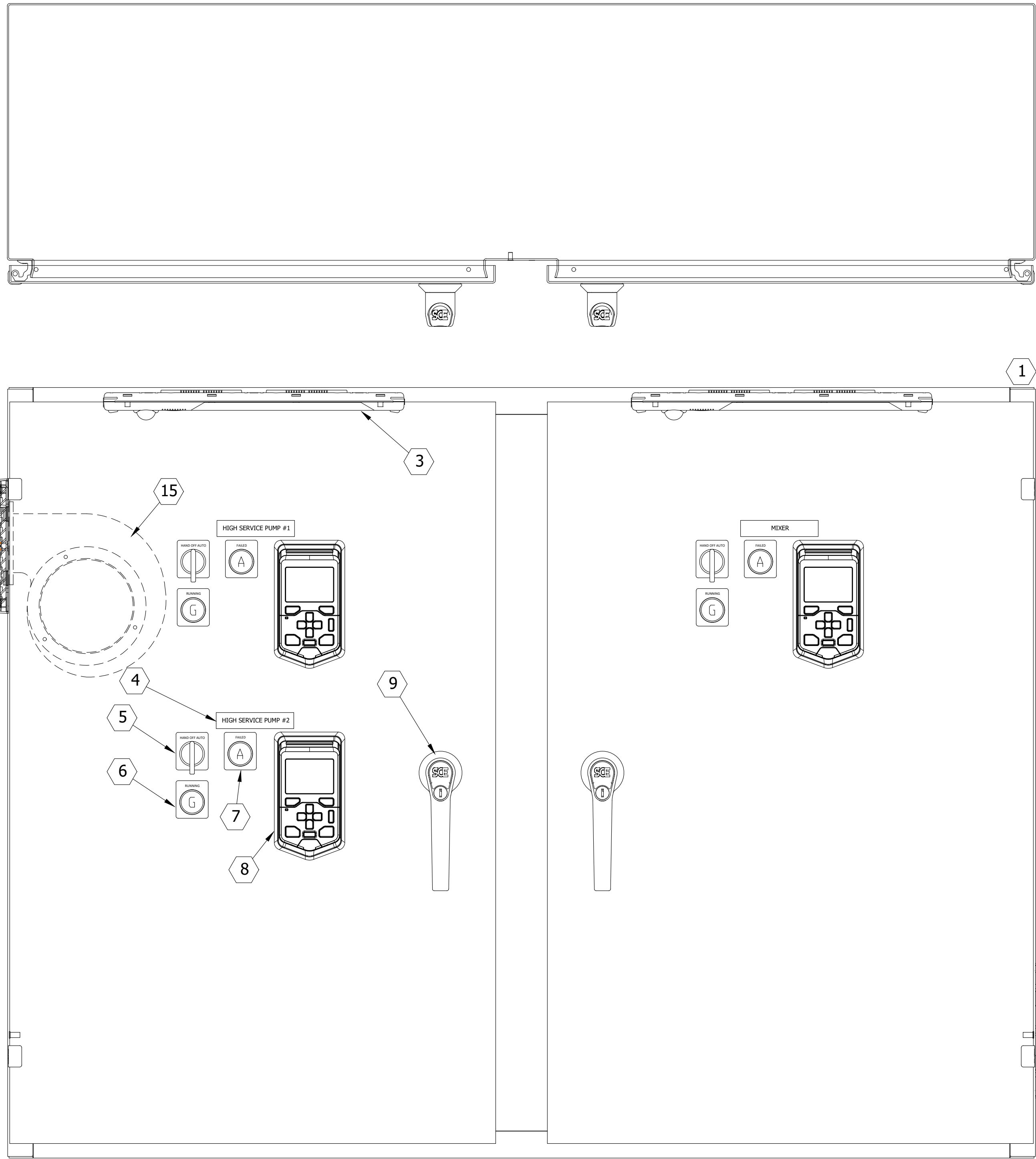
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Aaron Crow



PRINT DATE: 5/21/25
PLOT SCALE: 1:1
DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\6 ACAD\PLAN SHEETS\234001881 MOTOR CONTROL PANEL LAYOUT DETAILS.DWG
EDITED BY: JREED
DATE: 5/15/25 9:24 AM



ALL PANEL LAYOUTS AND WIRING DIAGRAMS ARE SHOWN AS A REPRESENTATION FOR MINIMUM REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE SYSTEMS INTEGRATOR OR CONTRACTORS RESPONSIBILITY FOR FINAL DESIGN AND FULLY FUNCTIONAL SYSTEM.

CONTROL PANEL KEYED NOTES:

- NEW NEMA12 PAINTED STEEL ENCLOSURE - 48"X36"X12" MINIMUM. SIMILAR TO SAGINAW CONTROL ENGINEERING SCE-36EL4812WFLP OR EQUAL.
- NEW INTERIOR EQUIPMENT PANEL 48"X36".
- ENCLOSURE LED LIGHTING WITH AUTOMATIC DOOR SWITCH ACTIVATION.
- PHENOLIC TAG, ENGRAVED. BLACK LETTERS ON WHITE/OFF-WHITE SURFACE. SELF-ADHESIVE. TYPICAL.
- 30.5MM PILOT DEVICE: 3-POSITION SWITCH, HAND-OFF-AUTO (HOA). TYPICAL.
- 30.5MM PILOT DEVICE: GREEN LED PILOT LIGHT WITH PUSH-TO-TEST (PTT) FUNCTION FOR RUNNING STATUS. TYPICAL.
- 30.5MM PILOT DEVICE: AMBER LED PILOT LIGHT WITH PUSH-TO-TEST (PTT) FUNCTION FOR FAILED/ALARM CONDITION. TYPICAL.
- VFD REMOTE KEYPAD. SHOWN IS FOR ABB ACQ580 DRIVE UNIT.
- LOCKABLE 3-POINT LATCH HANDLE.
- 120V CONTROL RELAYS, DPDT.
- FIELD TERMINAL BLOCKS TO PLC.
- FIELD TERMINAL BLOCKS FOR SEAL/OVERTEMP SENSOR WIRES.
- HIGH SERVICE PUMP VFD DRIVE. SEE ONE-LINE.
- MIXER VFD DRIVE. SEE ONE-LINE.
- 300 CFM MINIMUM COOLING FAN. SIMILAR TO KOOLTRONICS.
- FILTERED INTAKE VENT.
- 120V POWER, 15A BREAKER.
- 24VDC POWER SUPPLY, 3A.
- ETHERNET SWITCH.

RQAW

DCCM

PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, IN 47448

#	Revision	Date

Project #: 23-400-188-1

Designed By: JAR

Drawn By: JAR

Checked By: JAR

Date: 05/16/2025

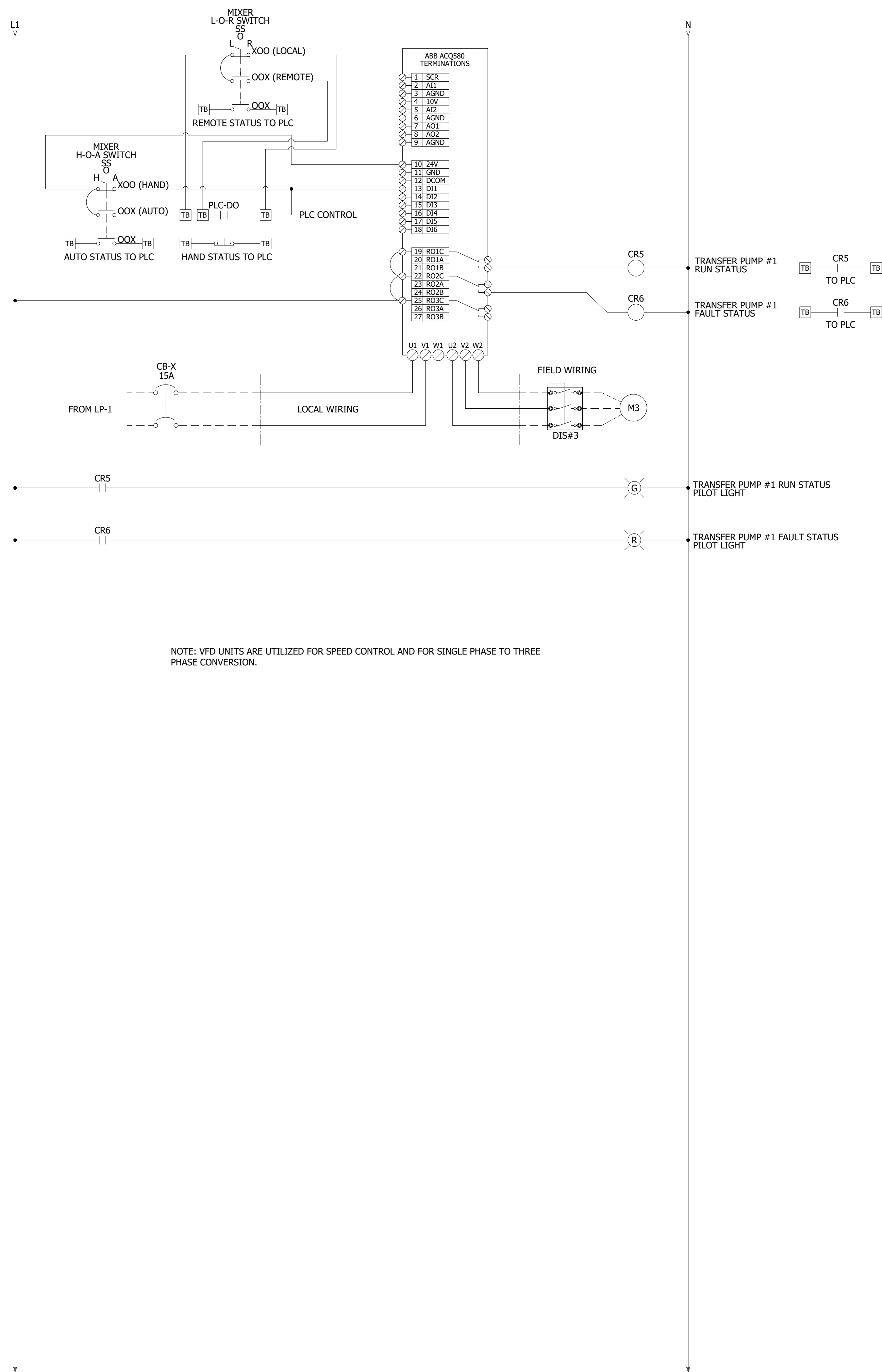
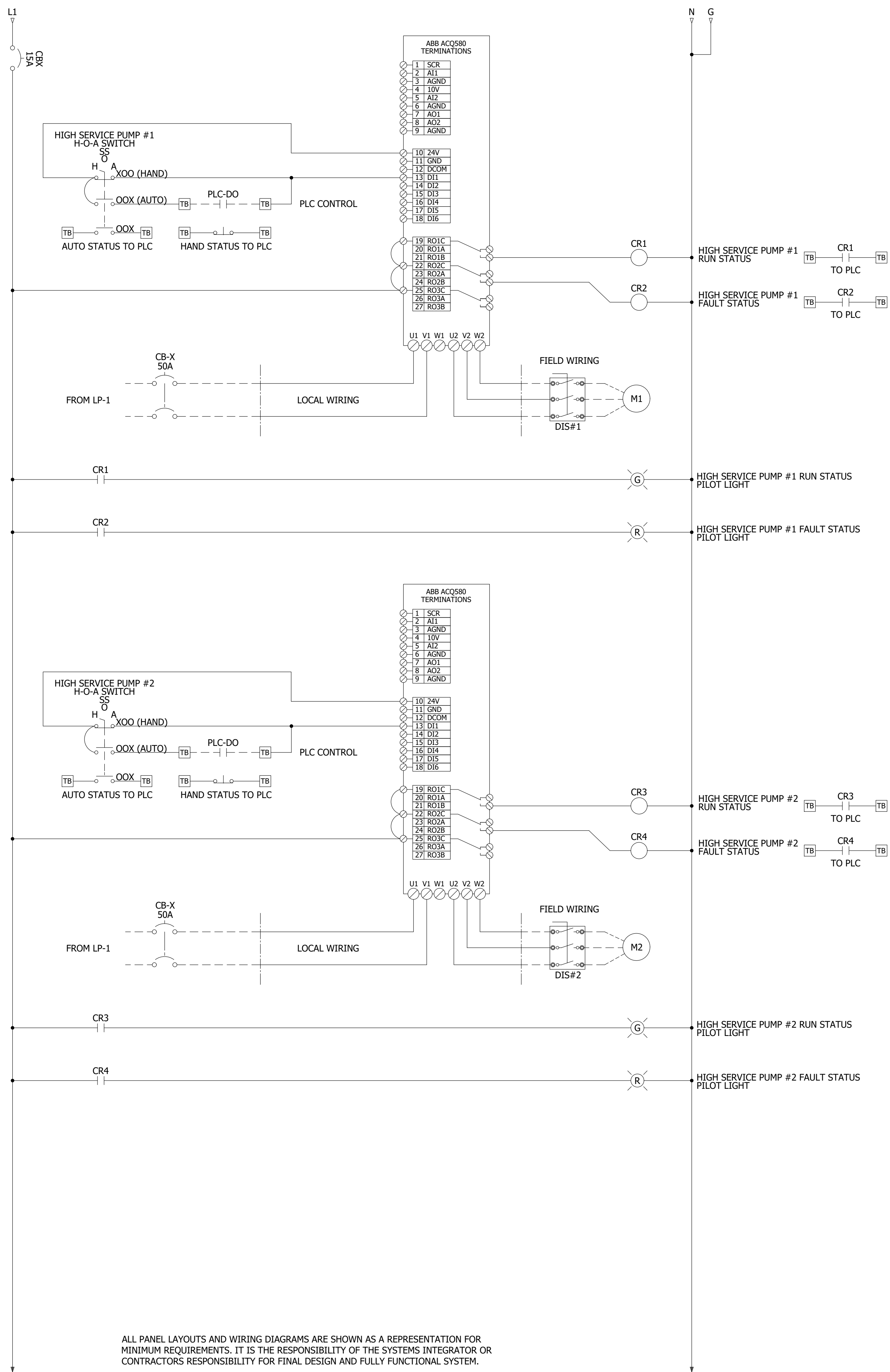


Aaron Crow



MOTOR CONTROL PANEL
LAYOUT DETAILS

I107



PERMIT SET

SALT CREEK ESTATES WATER TREATMENT PLANT IMPROVEMENTS

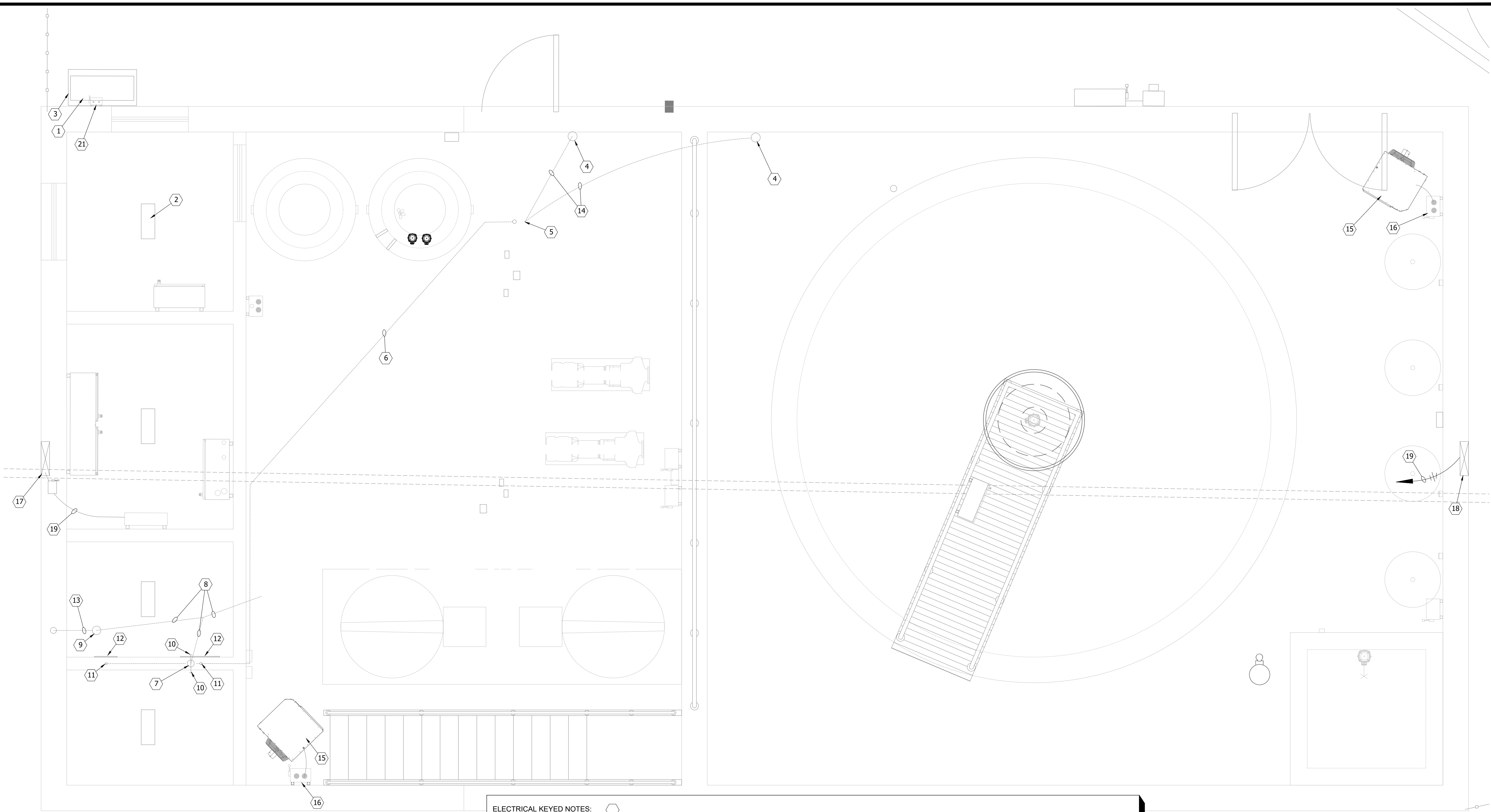
0000 SOUTH DYANNE STREET, NASHVILLE, TN 37249

#	Revision	Date

Project #: 23-400-188-1
Designed By: JAR
Drawn By: JAR
Checked By: JAR
Date: 05/16/2025



PRINT DATE: 5/21/25 11:07 AM EDITED BY: JREED DRAWING FILE: P:\23-400-188-1 SALT CREEK ESTATES UTILITIES\5 ACAD\PLAN SHEETS\234001881 HVAC AND PLUMBING DETAILS.DWG PLOT SCALE: 1:1



NEW ELECTRICAL BUILDING POWER PLAN

ELECTRICAL KEYED NOTES:

1. 36K BTU, 23.9 SEER2 ACIQ 4-ZONE SLIM UNIT CONDENSER. ACIQ ENERGY STAR OR EQUAL. REMOTE CONTROL PROVIDED WITH EACH ROOM CEILING CASSETTE. INSTALL PER MANUFACTURER REQUIREMENTS AND GUIDE. INCLUDE ALL REQUIRED ACCESORIES, WIRING AND TUBING FOR A COMPLETE SYSTEM.

2. 6K CEILING CASSETTE. TYPICAL. INSTALL PER MANUFACTURER REQUIREMENTS AND GUIDE. TYPICAL EACH ROOM.

3. CONDENSER MOUNTING PAD.

4. WATER SPIGOT AND VALVE. 3/4" MAIN LINE TO BE REDUCED AT SPIGOT TO 1/2".

5. WATER TAP WITH MULT-LINE CONNECTIONS. SEE DETAILS, SHEET E106.

6. 1/2" PEX OR HDPE WATER LINE. UNDER SLAB, COLD WATER ONLY.

7. 3" DRAIN PIPE WITH "Y" ADAPTER FOR CLEANOUT JUST ABOVE TOP OF FLOOR PLATE. PIPE TO BE REDUCED TO 1-1/2" FOR SINK DRAINS.

8. 4" PVC UNDER SLAB, REDUCE TO 3" FOR ABOVE FLOOR SECTIONS.

9. 3" PVC FLOOR DRAIN WITH MESH COVER.

10. 1-1/2" DRAIN FOR FUTURE SINK. STUB UP AND CAP.

11. 1/2" WATER LINE FOR FUTURE SINK OR OTHER. STUB UP AND CAP.

12. ACCESS PLATES TO WATER LINES AND DRAIN CLEANOUT.

13. 2" CONNECTED TO 4" FITTING BELOW SLAB, RUN INTO AND UP EXTERIOR WALL FOR VENT PIPE.

14. 3/4" PEX OR HDPE WATER LINE. UNDER SLAB, COLD WATER ONLY.

15. 7KW CEILING/WALL MOUNT UNIT HEATERS WITH REMOTE THERMOSTAT CONTROL. SIMILAR TO REZNOR EUH SERIES.

16. 60A STAINLESS STEEL PULL BOX, DEDICATED ELECTRICAL CIRCUIT FOR HEATER.

17. 32" EXHAUST FAN. MOUNTED APPROXIMATELY 3' BELOW APEX OF ROOF. SIMILAR TO GREENHECK MODEL SBE-1H24 OR EQUAL.

18. 36" INTAKE VENT. MOUNTED APPROXIMATELY 3' BELOW APEX OF ROOF.

19. 2 - #12 CU, 1 - #12 CU GND, 3/4" C; ELECTRICALLY ACTUATED INTAKE LOUVERS. TO BE CONNECTED WITH EXHAUST FAN AND TEMPERATURE SWITCH.

20. 2 - #12 CU, 1 - #12 CU GND, 3/4" C; ELECTRICALLY CONNECTED TO TEMPERATURE SWITCH AND INTAKE LOUVERS. FAN WILL NOT BE ALLOWED TO RUN OR OPEN LOUVERS LESS THAN 60° F.

21. CONDENSER UNIT DISCONNECT.

PERMIT SET

SALT CREEK ESTATES
WATER TREATMENT PLANT
IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, TN 47448

#	Revision	Date

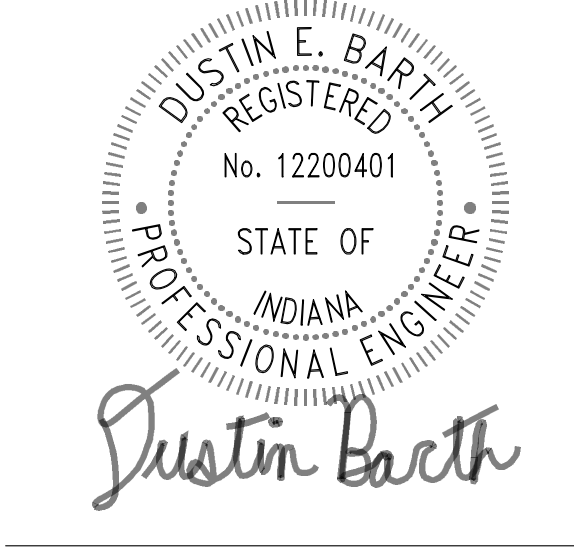
Project #: 23-400-188-1

Designed By: JAR

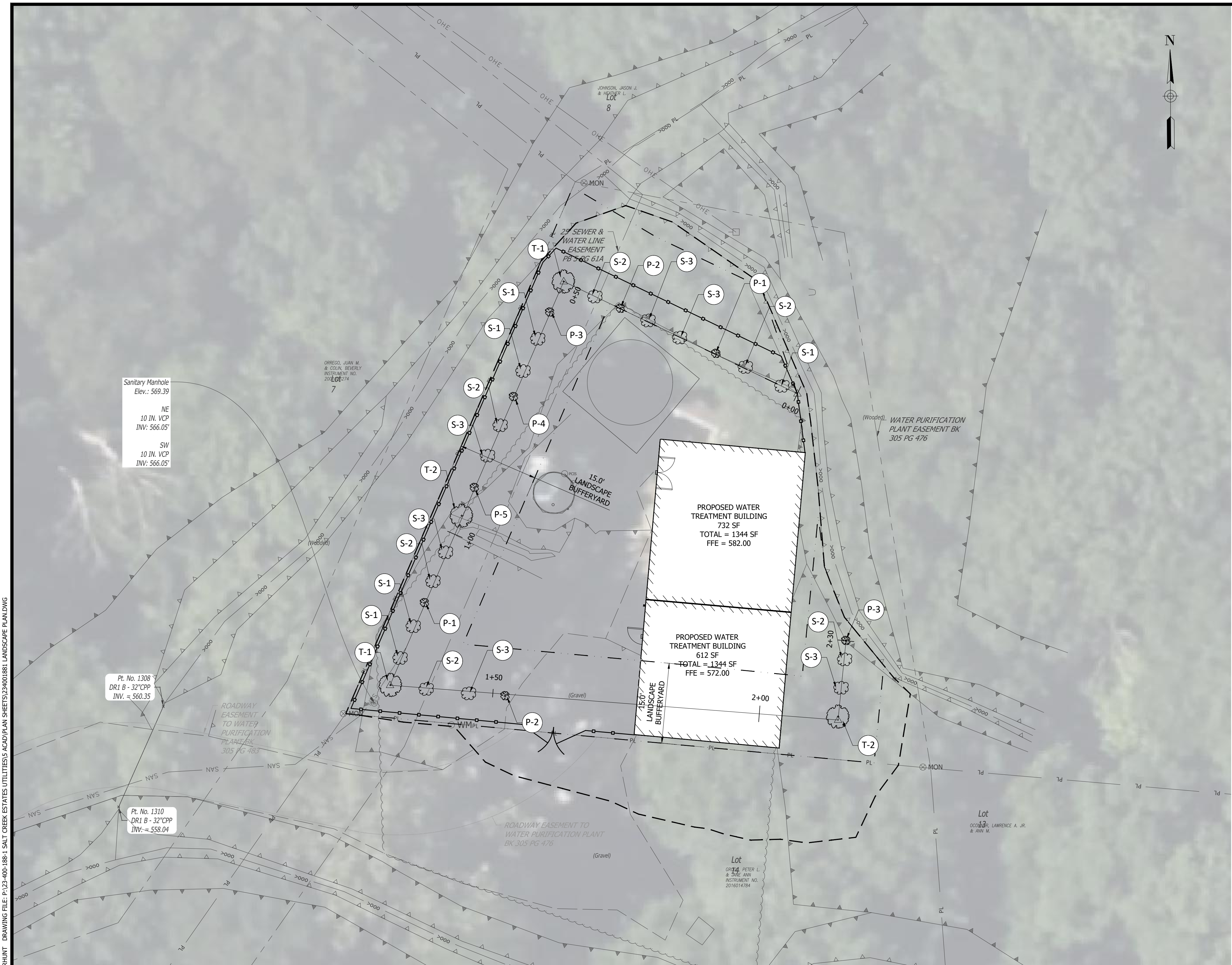
Drawn By: JAR

Checked By: JAR

Date: 05/16/2025



PRINT DATE: 5/16/25
PLOT SCALE: 1" = 10'



LANDSCAPE PLAN LEGEND	
	EXISTING EASEMENT
	EXISTING PROPERTY LINE
	EXISTING TOP OF BANK
	EXISTING TOE OF SLOPE
	EXISTING EDGE OF GRAVEL
	EXISTING EDGE OF CONCRETE
	EXISTING EDGE OF TREE LINE
	EXISTING UNDERGROUND ELECTRICAL
	EXISTING FIBER OPTIC
	EXISTING OVERHEAD ELECTRICAL
	EXISTING DRAINAGE DITCH
	PROPOSED CONSTRUCTION LIMITS
	PROPOSED LANDSCAPE TREE
	PROPOSED LANDSCAPE SHRUB
	PROPOSED LANDSCAPE PERENIAL

LANDSCAPING PLAN NOTES	
1.	SHOW THE PRESERVED TREES PER THE CONDITION OF APPROVAL FOR VAR-25-3: "TREES WITH A DIAMETER AT BREAST HEIGHT OF THREE (3) INCHES OR GREATER ADJACENT TO THE CONSTRUCTION ENVELOPE THAT ARE TO BE PRESERVED SHALL HAVE PROTECTIVE MEASURES ADD TO THE PLAN SET AND BE MARKED ON THE SITE."

PLANT LOCATION	TYPE OF PLANT	PLANT ABBREVIATION	BOTANICAL NAME	COMMON NAME	QUANTITY	CULTIVAR (Y / N)
T-1	TREE	AA	THUJA OCCIDENTALIS	AMERICAN ARBORITAE	2	NO
T-2	TREE	RB	BETULA NIGRA	RIVER BIRCH	2	NO
S-1	SHRUB	SI	ILEX GLABRA	SHAMROCK INKBERRY	5	NO
S-2	SHRUB	BB	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	6	NO
S-3	SHRUB	LS	ARONIA MELANOCARPA	LOW SCAPE MOUND	6	NO
P-1	PERENNIAL	BB	MONARDA	BEE BALM	2	NO
P-2	PERENNIAL	BF	BAPTISIA AUSTRALIS	BLUE FALSE INDIGO	2	NO
P-3	PERENNIAL	CF	ECHINACEA	CONEFLOWER	2	NO
P-4	PERENNIAL	GB	ARUNCUS DIOTICUS	GOAT'S BEARD	1	NO
P-5	PERENNIAL	WF	BAPTISIA ALBA	WHITE FALSE INDIGO	1	NO



PERMIT SET

SALT CREEK ESTATES WATER TREATMENT PLANT IMPROVEMENTS

9009 SOUTH DIANNE STREET, NASHVILLE, TN 37248

#	Revision	Date

Project #: 23-400-188-1

Designed By: RJPA

Drawn By: RLH

Checked By: RJPA

Date: 02/03/2025



LANDSCAPE SITE PLAN

L100

GENERAL NOTES:

GENERAL INFORMATION

1. THE CONTRACTOR SHALL RESOLVE ANY CONFLICT ON THE DRAWINGS OR IN THE SPECIFICATIONS WITH THE ARCHITECT / EOR BEFORE PROCEEDING WITH THE WORK. IN GENERAL, WHERE THE DRAWINGS AND SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT RESTRICTIONS AND REQUIREMENTS SHALL GOVERN. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED AS SHOWN FOR SIMILAR WORK.
2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.
3. PLAN NOTES, DETAILS AND SECTIONS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES. "TYPICAL DETAILS" ARE APPLICABLE THROUGHOUT CONSTRUCTION DOCUMENTS AND MAY NOT BE SPECIFICALLY REFERENCED THEREIN. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THESE TYPICAL DETAILS AND UNDERSTANDING EXTENT OF THEIR APPLICATION PRIOR TO PERFORMING WORK.
4. CONTRACT DOCUMENTS INDICATE INFORMATION SUFFICIENT TO CONVEY DESIGN INTENT. REVIEW CONTRACT DOCUMENTS AND VERIFY FIELD AND EXISTING CONDITIONS. PROMPTLY NOTIFY ARCHITECT / EOR, PRIOR TO PROCEEDING WITH WORK, IF FURTHER CLARIFICATION OF DESIGN INTENT IS NEEDED.
5. REFER TO ARCHITECTURAL AND/OR MEP DRAWINGS FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. DO NOT SCALE DRAWINGS.
6. CONTRACTORS ARE REQUIRED TO COORDINATE THEIR RESPECTIVE WORK WITH ALL OTHER DISCIPLINES TO AVOID ANY CONFLICTS DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE STRUCTURAL DRAWINGS WITH ALL OTHER CONSTRUCTION DOCUMENTS.
7. THE DRAWINGS DO NOT SHOW ALL OPENINGS REQUIRED. THE CONTRACTOR SHALL VERIFY ALL OPENING SIZES AND LOCATIONS WITH OTHER DISCIPLINES. ADDITIONAL OPENINGS, BLOCKOUTS AND SLEEVES MAY BE REQUIRED BY OTHER DISCIPLINES AND SHALL BE CONSTRUCTED USING THE TYPICAL DETAILS AND/OR THE CRITERIA INDICATED ON THE DRAWINGS.
8. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING, SHORING, UNDERPINNING, ETC. THE ARCHITECT / EOR IS NOT RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR SAFETY PROCEDURES DURING CONSTRUCTION.
9. SUBMIT SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION. CONTRACTOR SHALL REVIEW FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS PRIOR TO SUBMISSION TO ARCHITECT / EOR. ARCHITECT / EOR REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN INTENT AND WHEN INDICATED, THE SUBMITTAL SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT LOCATION.
10. MODIFICATIONS AND SUBSTITUTIONS MUST BE ACCEPTED IN WRITING BY ARCHITECT / EOR. NO MODIFICATION OR SUBSTITUTION WILL BE ACCEPTED VIA SHOP DRAWING REVIEW.
11. NON-STRUCTURAL ITEMS, INCLUDING BUT NOT LIMITED TO, STAIR FRAMING, ARCHITECTURAL CLADDING, ETC., WHEN NOT DETAILED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, SHALL BE THE DESIGN RESPONSIBILITY OF THE CONTRACTOR. THESE NON-STRUCTURAL ITEMS MAY BE SUPPORTED BY THE PRIMARY STRUCTURE BUT SHALL NOT IMPOSE TORSIONAL LOADS ONTO THE PRIMARY SUPPORT MEMBERS. PROVIDE BRACES, KICKERS, STIFFENERS, ETC., AS NECESSARY TO ELIMINATE TORSIONAL LOADS AT NO ADDITIONAL COSTS TO THE OWNER.

EXISTING CONDITIONS

1. EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM EXISTING CONSTRUCTION DOCUMENTS AND SITE INVESTIGATION AND CAN BE USED FOR BIDDING PURPOSES. THE CONTRACTOR SHALL VERIFY ALL EXISTING JOB CONDITIONS, REVIEW ALL DRAWINGS AND VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH THE WORK. DRAWINGS FOR THE EXISTING CONSTRUCTION ARE AVAILABLE FOR REVIEW.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL PERTINENT INFORMATION.
3. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION AND TAKE CARE TO PROTECT EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE.
4. THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND SMALL TOOLS IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF STRUCTURAL MEMBERS OR MECHANICAL, ELECTRICAL, OR ARCHITECTURAL FEATURES NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED AND PRIOR APPROVAL SHALL BE OBTAINED BEFORE REMOVAL OF MEMBERS.
5. PRIOR TO CORING OR SAWING EXISTING CONCRETE WALLS AND SLABS FOR NEW PENETRATIONS, CONTRACTOR SHALL LOCATE EXISTING REINFORCING IN CONCRETE USING A NON-DESTRUCTIVE METHOD. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER OF NEW PENETRATION LOCATIONS IN CONFLICT WITH EXISTING REINFORCING. DO NOT CUT EXISTING REINFORCING WITHOUT PRIOR APPROVAL BY THE ARCHITECT/EOR.
6. THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION WHEREVER EXISTING SUPPORTS ARE REMOVED TO ALLOW THE INSTALLATION OF THE NEW WORK. ALL SHORING METHODS AND SEQUENCING OF DEMOLITION SHALL BE SPECIFIED BY A LICENSED PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THIS PROJECT IS LOCATED, TO BE RETAINED BY THE CONTRACTOR.
7. THE CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION WITH SIMILAR MATERIALS AND WORKMANSHIP TO RESTORE CONDITIONS TO LEVELS ACCEPTABLE TO THE ARCHITECT.

CONSTRUCTION LOADS

1. CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION.
2. PROVIDE ALL NECESSARY MEASURES TO PROTECT THE STRUCTURE DURING CONSTRUCTION.
3. CONSTRUCTION MATERIALS, IF PLACED ON FRAMED FLOORS AND ROOFS, SHALL BE SPREAD OUT SUCH THAT THE DESIGN LIVE LOAD PER SQUARE FOOT IS NOT EXCEEDED. THIS INCLUDES BUT IS NOT LIMITED TO WEIGHTS OF MATERIALS, WEIGHTS OF EQUIPMENT AND LOADS APPLIED BY TEMPORARY LIFTS, HOISTS, CRANES, ETC.
4. PROVIDE ADEQUATE SHORING IF OVERLOAD IS ANTICIPATED OR WHERE STRUCTURAL ELEMENTS HAVE NOT ATTAINED DESIGN STRENGTH. THE CONTRACTOR SHALL SUBMIT CALCULATIONS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED VERIFYING THE ADEQUACY OF THE STRUCTURE FOR ANY PROPOSED CONSTRUCTION LOADS THAT ARE IN EXCESS OF THE STATED DESIGN LOADS.
5. THE EOR IS NOT RESPONSIBLE TO DESIGN OR CHECK THE STRUCTURE FOR LOADS APPLIED TO THE STRUCTURE FOR ANY CONSTRUCTION ACTIVITY.
6. OBSERVATION VISITS TO THE SITE BY THE EOR SHALL NOT CONSTITUTE ACCEPTANCE OF CONSTRUCTION MEANS AND METHODS.

DESIGN

1. DESIGN LOAD CRITERIA:

SEISMIC LOAD CRITERIA

SITE CLASS : D (ASSUMED)
MAPPED SPECTRAL RESPONSE ACCELERATION : S_s = 0.22, S₁ = 0.107
DESIGN SPECTRAL RESPONSE : S_{as} = 0.234, S_{a1} = 0.169
SEISMIC DESIGN CATEGORY : c

EARTHWORK/FOUNDATION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND REVIEW THE PROJECT GEOTECHNICAL REPORT PRIOR TO BIDDING. CONTACT THE EOR WITH ANY DISCREPANCIES OR CONCERNS SO THAT A RESOLUTION MAY BE REACHED.
2. BUILDING FOUNDATION DESIGN IS BASED ON NET ALLOWABLE SOIL BEARING PRESSURE OF:
- 2000 PSF FOR SPREAD FOOTINGS AND FOR STRIP FOOTINGS. THIS VALUE IS ASSUMED AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. BUILDING FOUNDATION SHALL BE PLACED ON FIRM, UNDISTURBED NATURAL SOILS OR ON ENGINEERED FILL MATERIAL FOR AREAS REQUIRING ENGINEERED FILL. THIS MATERIAL SHALL CONSIST OF CLEAN GRANULAR FILL COMPACTED AS NOTED IN THE EARTHWORK SPECIFICATIONS AND PLACED IN LIFTS AS RECOMMENDED BY THE SOILS ENGINEER ON SITE OR AS SHOWN IN THE GEOTECHNICAL REPORT. SOIL BEARING PRESSURE OF ENGINEERED FILL TO BE FIELD VERIFIED BY A SOILS ENGINEER ON SITE PRIOR TO CONSTRUCTION.
4. BACKFILL MATERIAL FOR BASEMENT WALLS AND THE BACK SIDE (EARTH SIDE) OF RETAINING WALLS TO BE CLEAN, WASHED DRAINAGE FILL TO PERMIT DRAINAGE TO PERIMETER DRAIN SYSTEM. DRAINAGE FILL TO BE COMPACTED AS NOTED IN THE EARTHWORK SPECIFICATIONS AND PLACED IN LIFTS AS RECOMMENDED BY THE SOILS ENGINEER ON SITE OR AS SHOWN IN THE GEOTECHNICAL REPORT.
5. SUBBASE MATERIAL UNDER SLABS-ON-GRADE TO BE CLEAN GRANULAR FILL COMPACTED AS NOTED IN THE EARTHWORK SPECIFICATIONS AND/OR THE GEOTECHNICAL REPORT.
6. BACKFILL AGAINST GRADE BEAMS AND FROST WALLS SHALL BE PLACED EVENLY ON BOTH SIDES.
7. DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL BOTH THE BASEMENT AND GROUND FLOOR SLABS HAVE BEEN COMPLETELY INSTALLED AND ATTAINED THEIR SPECIFIED 28 DAY COMPRESSIVE STRENGTH AS INDICATED BY TEST CYLINDERS AND ALL SLAB CONNECTIONS TO THE BASEMENT WALLS HAVE BEEN COMPLETELY INSTALLED.
8. DO NOT BACKFILL AGAINST RETAINING WALLS UNTIL THE CONCRETE HAS ATTAINED ITS SPECIFIED 28 DAY COMPRESSIVE STRENGTH AS INDICATED BY TEST CYLINDERS.
9. ANY FOUNDATION INSULATION, WATERPROOFING, VAPOR BARRIER, ETC. SHOWN ON THE STRUCTURAL DRAWINGS IS FOR INFORMATION ONLY UNLESS SPECIFICALLY NOTED OTHERWISE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND REVIEW THE ARCHITECTURAL DOCUMENTS FOR EXACT LOCATIONS, PLACEMENT AND MATERIAL REQUIREMENTS.
10. NO RECYCLED MATERIAL MAY BE USED AS BACKFILL BELOW THE BUILDING FOUNDATIONS OR SLABS. ALL BACKFILL MATERIAL SHALL BE REVIEWED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO USE.
11. UNDERCUTTING OF THE SOIL FOR FOUNDATION PLACEMENT MAY BE REQUIRED. THE STRUCTURAL DRAWINGS MAY NOT INDICATE THE ENTIRE SCOPE OF UNDERCUTTING, FILL, BAD SOIL OR ROCK REMOVAL THAT MAY BE REQUIRED TO ATTAIN THE DESIGN SOIL BEARING PRESSURES.
12. A REPORT CERTIFIED BY THE SOILS ENGINEER ON SITE SHALL BE FURNISHED TO THE A/E VERIFYING THAT ALL FOUNDATIONS WERE PLACED ON A MATERIAL CAPABLE OF SUSTAINING THE DESIGN BEARING PRESSURES.
13. IF DEWATERING IS REQUIRED, SUMPS SHALL NOT BE PLACED WITHIN THE FOUNDATION EXCAVATION.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE LATEST ADDITION OF ACI 315, ACI 318, AND CRSI.
2. REINFORCEMENT SHALL HAVE DEFORMED SURFACES IN ACCORDANCE WITH ASTM A615 WITH MINIMUM YIELD STRENGTH OF 60,000 PSI.
3. WELDED WIRE FABRIC SHALL BE SMOOTH CONFORMING TO ASTM A185.
4. THE SHOP DRAWINGS FOR REINFORCING STEEL SHALL INCLUDE SCALE ELEVATIONS OF ALL CONCRETE WALLS AS APPLICABLE.
5. PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF ALL WALLS AND GRADE BEAMS. REFER TO TYPICAL DETAILS.
6. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE PROTECTION (CLEAR COVER) UNLESS OTHERWISE NOTED:

- SURFACES NOT FORMED AND IN CONTACT WITH SOIL: 3"
- FORMED SURFACES IN CONTACT WITH SOIL OR WEATHER: 2"
- BEAMS, GIRDERS AND COLUMNS: 1 1/2"
- SLABS, WALLS AND JOISTS: 3/4"
7. PROVIDE ADDITIONAL REINFORCING BARS AROUND ALL OPENINGS IN CONCRETE SLABS AND WALLS EQUAL TO THE AMOUNT INTERRUPTED BY THE OPENINGS (1/2 EA. SIDE TYPICAL). WHERE OPENINGS ARE SUCH THAT THE REINFORCING STEEL IS NOT INTERRUPTED, NO ADDITIONAL REINFORCING IS REQUIRED. REFER TO TYPICAL CONCRETE OPENING DETAIL.
8. ALL 90 DEGREE AND 180 DEGREE BENDS SHOWN OR CALLED OUT ON THE DRAWINGS SHALL BE STANDARD HOOKS IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE.
9. OPENINGS THROUGH CONCRETE WALLS, SLABS OR OTHER STRUCTURAL ELEMENTS NOT DETAILED ON THE STRUCTURAL DRAWINGS MUST BE LOCATED AND SHOWN ON THE APPLICABLE REINFORCING STEEL SHOP DRAWINGS. THE FINAL LOCATION OF ALL OPENINGS MUST BE REVIEWED BY THE A/E BEFORE THE CONCRETE IS POURED.
10. THE WELDED WIRE FABRIC IN THE COMPOSITE ELEVATED SLAB SHALL BE SUPPORTED BY PLACING CONTINUOUS HEAVY BOLSTERS AT 2'-6" O.C. MAXIMUM OVER THE COMPOSITE METAL DECK.
11. THE WELDED WIRE FABRIC IN THE CONCRETE SLAB-ON-GRADE SHALL BE SUPPORTED BY CONTINUOUS #4 SUPPORT BARS AT 2'-6" O.C. MAXIMUM. THE #4 BARS SHALL BE TIED AND SUPPORTED BY CONTINUOUS CHAIRS AT 2'-6" O.C. MAXIMUM.
12. CONTRACTOR SHALL PROVIDE FOR AN ALLOWANCE OF xx TONS OF REINFORCING STEEL TO BE FABRICATED AND/OR PLACED DURING THE PROGRESS OF WORK AS MAY BE DIRECTED BY THE ARCHITECT (STRUCTURAL ENGINEER). THE UNUSED PORTION SHALL BE CREDITED TO THE OWNER AT THE COMPLETION OF CONCRETE WORK.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE STANDARDS OF THE AMERICAN CONCRETE INSTITUTE, ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", WITH MODIFICATIONS AS NOTED IN THE CONTRACT DOCUMENTS.
2. ALL CONCRETE, UNLESS OTHERWISE NOTED IN SCHEDULES OR DETAILS, SHALL HAVE A MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH OF 4000 PSI. ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF), EXCEPT.
3. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR-ENTRAINED. FOR SURFACE FINISHES AND OTHER REQUIREMENTS, REFER TO THE CONCRETE SPECIFICATIONS. CONCRETE MIX PROPORTIONING SHALL BE SUBMITTED TO THE ARCHITECT / EOR FOR REVIEW AND APPROVAL.
4. THE USE OF CALCIUM CHLORIDE AND OTHER CHLORIDE CONTAINING AGENTS IS PROHIBITED. THE USE OF RECYCLED CONCRETE IS PROHIBITED. PLACEMENT WITHIN AND CONTACT BETWEEN ALUMINUM ITEMS, INCLUDING ALUMINUM CONDUIT, AND CONCRETE IS PROHIBITED.
5. DETAILS OF FABRICATION OF REINFORCEMENT, HANDLING AND PLACEMENT OF THE CONCRETE, CONSTRUCTION OF FORMS AND PLACEMENT OF REINFORCEMENT, NOT OTHERWISE COVERED BY THE PLANS AND SPECIFICATIONS, SHALL COMPLY WITH THE LATEST ADDITION OF THE ACI CODE AND CRSI REQUIREMENTS.
6. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED EDGES OF CONCRETE AND THE EXPOSED CORNERS OF BEAMS, GIRDERS AND COLUMNS UNLESS OTHERWISE SHOWN OR NOTED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
7. CORED HOLES IN CONCRETE WALLS, SLABS ETC., SHALL NOT BE PERMITTED WITHOUT PRIOR REVIEW AND APPROVAL FROM THE ARCHITECT/EOR.
8. ALL MISCELLANEOUS ITEMS TO BE INSTALLED IN ANY CONCRETE WORK, SUCH AS PIPES, ELECTRICAL CONDUITS, DOVETAIL ANCHOR SLOTS, REGLETS, ETC., SHALL BE PROPERLY LOCATED, INSTALLED AND CHECKED BY THE G.C. PRIOR TO PLACEMENT OF CONCRETE. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR THE EXACT EXTENT AND LOCATION OF THESE ITEMS THAT ARE NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
9. PROVIDE SLEEVES FOR ALL PIPE AND CONDUIT PENETRATIONS IN FOUNDATION WALLS, GRADE BEAMS, WALL FOOTINGS AND TRENCH FOOTINGS TO TOTALLY SEPARATE THE PIPES FROM THE CONCRETE. REFER TO TYPICAL DETAILS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONCRETE PLACING SEQUENCES, SIZE, AND CONSTRUCTION PROCEDURES, ACCOUNT FOR TEMPERATURE DIFFERENTIALS AND SHRINKAGE OCCURRING DURING THE CONSTRUCTION PHASE UNTIL THE BUILDING IS PERMANENTLY IN A MECHANICALLY CONTROLLED ENVIRONMENT.
11. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER BEFORE STARTING CONCRETE WORK TO ESTABLISH A SATISFACTORY PLACING SCHEDULE AND TO DETERMINE THE LOCATION OF CONSTRUCTION JOINTS SO AS TO MINIMIZE THE EFFECTS OF SHRINKAGE.
12. NO HORIZONTAL CONSTRUCTION JOINTS SHALL BE MADE IN CONCRETE WALLS, FOOTINGS, BEAMS OR SLABS UNLESS SHOWN OR NOTED IN THE CONTRACT DRAWINGS. VERTICAL JOINTS ARE PERMITTED IN CONCRETE SLABS, WALLS, WALL FOOTINGS, TRENCH FOOTINGS AND GRADE BEAMS. REFER TO TYPICAL DETAILS.
13. FORMS AND FALSEWORK SUPPORTING ANY VERTICAL LOADS SHALL REMAIN IN PLACE UNTIL THE CONCRETE HAS ATTAINED ITS SPECIFIED 28 DAY COMPRESSIVE STRENGTH AS INDICATED BY TEST CYLINDERS UNLESS REHORIES ARE INSTALLED IN SUFFICIENT QUANTITIES TO TRANSMIT THE LOADS TO ADEQUATE FOUNDATIONS OR SUBSTRATE WITHOUT OVERSTRESSING THE PARTIALLY CURED STRUCTURE. IN NO CASE SHALL SUPERIMPOSED LOAD ON RELATIVELY NEW CONCRETE EXCEED 50 POUNDS PER SQUARE FOOT UNLESS PROPER SHORING TO SUITABLE FOUNDATIONS OR SUBSTRATE IS INSTALLED AS REQUIRED BY THE EOR.
14. ALL CONSTRUCTION JOINTS IN CONCRETE WALLS, FOOTINGS, BEAMS OR SLABS SHALL BE PROVIDED WITH A KEYWAY. THE SURFACE OF THE CONCRETE SHALL BE THOROUGHLY CLEANED AND ALL LATIANCE REMOVED. IN ADDITION, THE JOINT SHALL BE THOROUGHLY WETTED AND SLUSHED WITH A COAT OF CEMENT GROUT OR A BONDING AGENT IMMEDIATELY BEFORE PLACING CONCRETE.
15. CONTROL JOINTS, IF NOT SHOWN ON DRAWINGS, SHALL BE PROVIDED IN ALL SLABS-ON-GRADE. JOINTS SHALL BE LOCATED ON EACH COLUMN LINE, AT RE-ENTRANT CORNERS AND THE JOINT SPACING SHALL NOT EXCEED:
- 15' IN EITHER DIRECTION FOR 6" THICK SLABS
- 1.5:1 MAXIMUM PANEL LENGTH TO WIDTH RATIO
SEE TYPICAL SLAB-ON-GRADE DETAILS FOR ADDITIONAL INFORMATION.
16. THE SAW CUTTING OF CONTROL JOINTS IN A SLAB-ON-GRADE MAY BEGIN WHEN THE CUTTING ACTION WILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE THE SURFACE AND BEFORE THE CONCRETE DEVELOPS RANDOM SHRINKAGE CRACKING. SAW CUTTING MAY BEGIN AND FINISH WITHIN 4 TO 12 HOURS AFTER SURFACE FINISHING IS COMPLETE.
17. REFER TO CONCRETE SPECIFICATIONS FOR FLOOR FLATNESS AND LEVELNESS REQUIREMENTS AT THE SLAB-ON-GRADE AND ELEVATED CONCRETE SLAB TYP.
18. CONCRETE SHALL BE PLACED AND CURED AS REQUIRED TO ACCOMMODATE ARCHITECTURAL FLOOR FINISHES AND MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND REVIEW ALL ARCHITECTURAL DOCUMENTS AND DETERMINE APPROPRIATE CONCRETE MIX, PLACEMENT, FLATNESS REQUIREMENTS AND CURING TECHNIQUES TO COMPLY WITH FLOORING MANUFACTURERS' REQUIREMENTS.
19. MAINTAIN A MAXIMUM SLOPE OF 1 VERTICAL TO 2 HORIZONTALS BETWEEN BEARING ELEVATIONS OF ADJACENT FOOTINGS TO AVOID UNDERMINING FOUNDATIONS UNLESS NOTED OTHERWISE IN PLANS.
20. SET ANCHOR BOLTS WITH 3/4" THICK PLYWOOD TEMPLATES OR 1/4" THICK STEEL PLATE TEMPLATES AND BRACE AGAINST DISPLACEMENT.

RQAW

DCCM

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PERMIT SET

SALT CREEK ESTATES WATER
TREATMENT PLANT IMPROVEMENTS

#	Revision	Date
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Project #: Project Number

Designed By: Designer

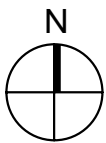
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Checked By: Checker

Date: Issue Date

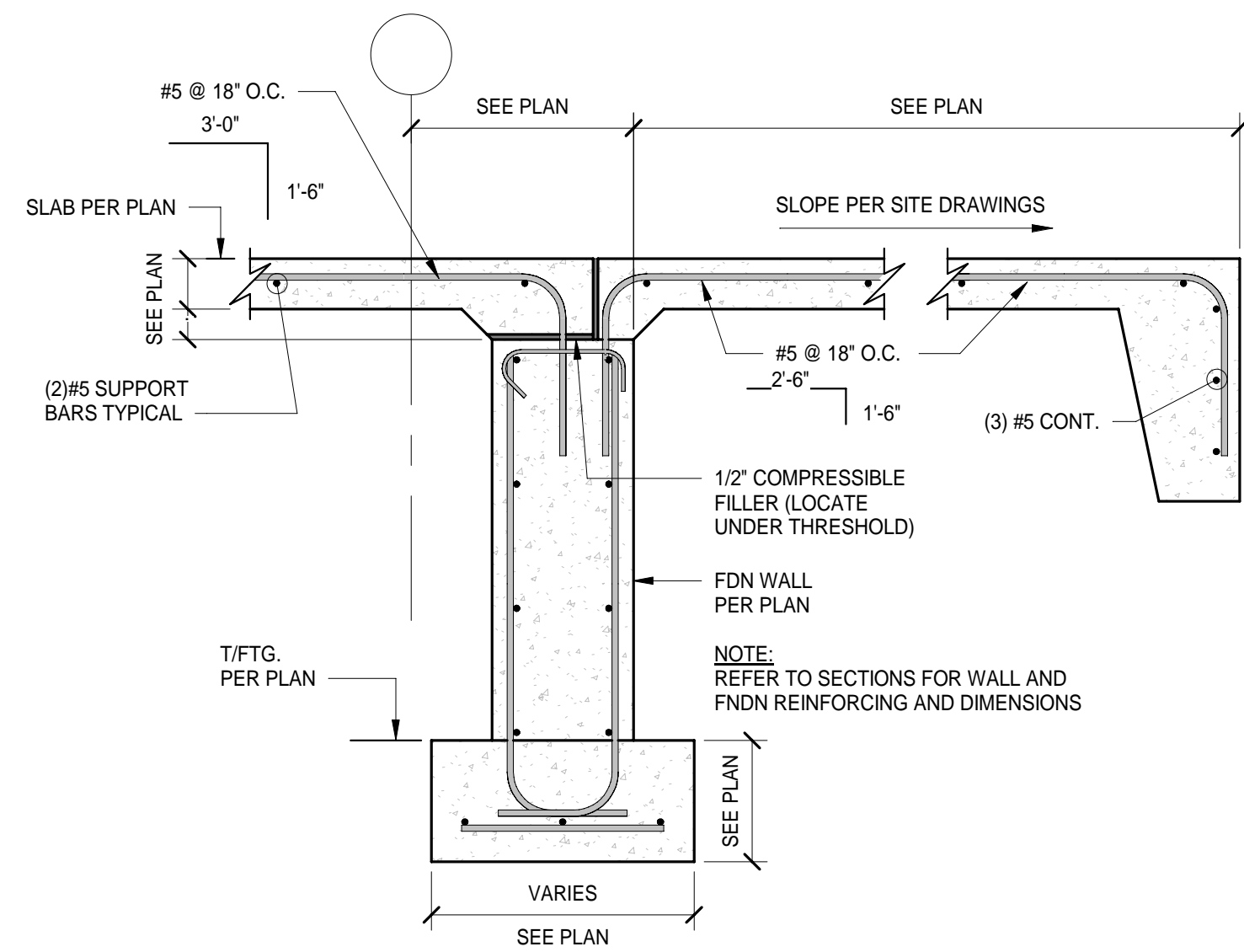
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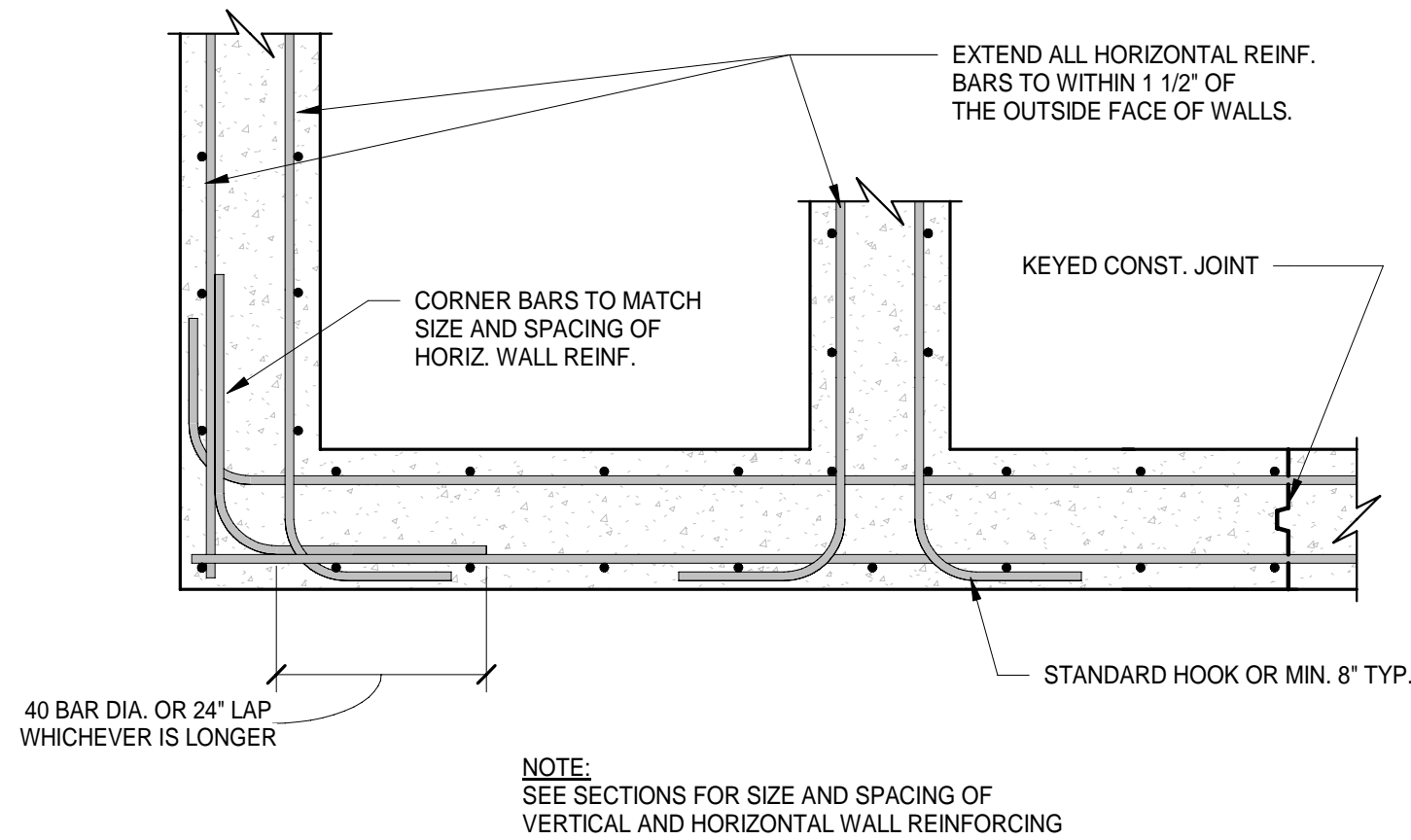


GENERAL NOTES

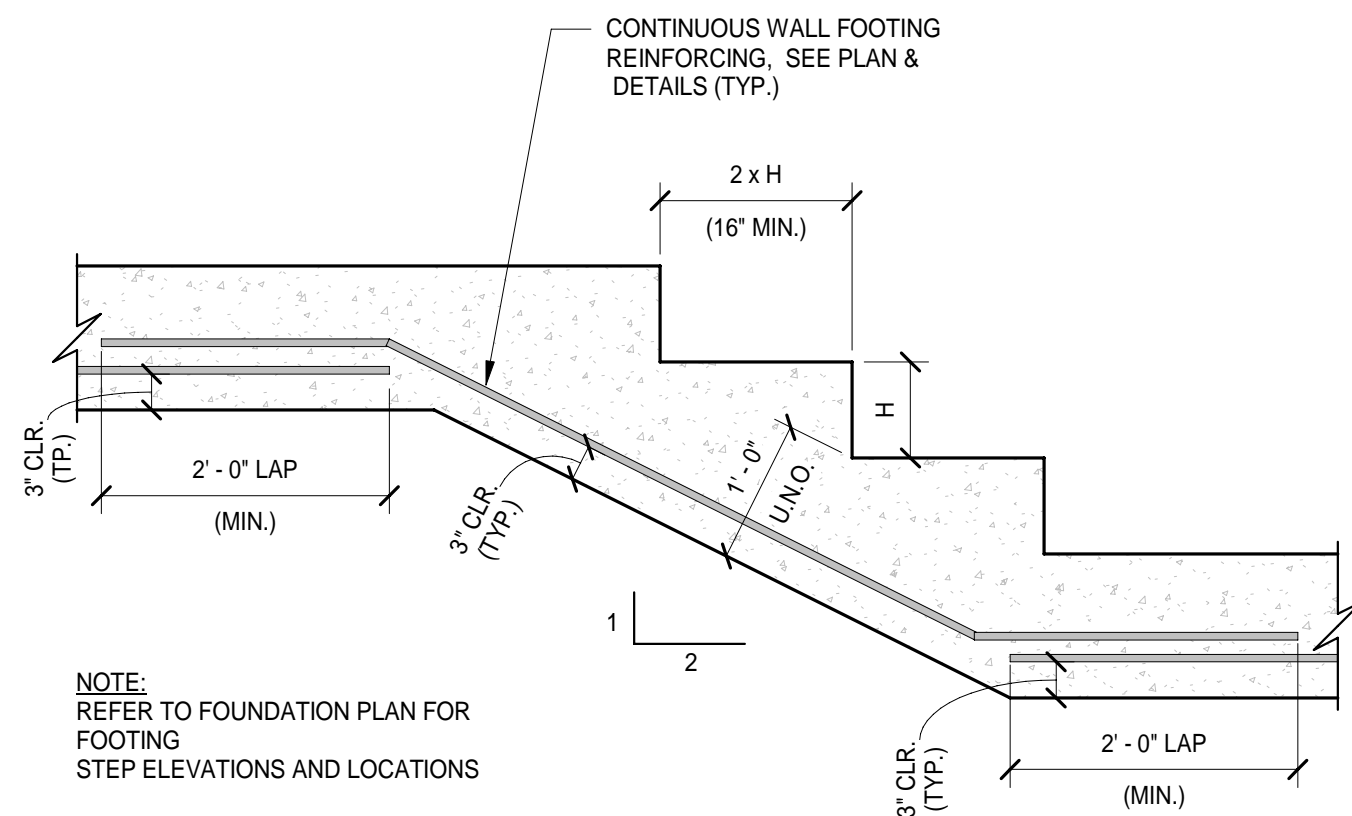
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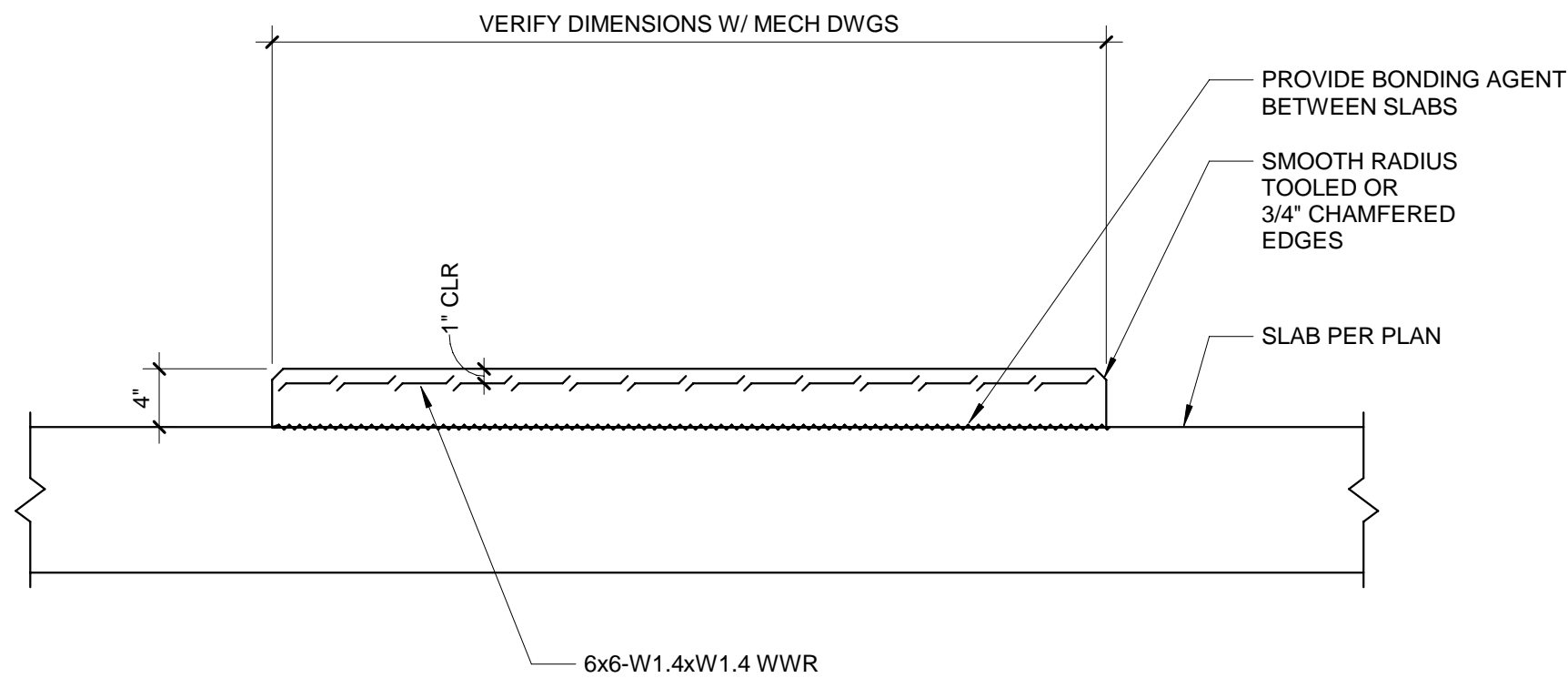
1
S002
3/4" = 1'-0"



2
S002
3/4" = 1'-0"



3
S002
3/4" = 1'-0"



4
S002
1" = 1'-0"

- NOTES:
- COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND EQUIPMENT SUPPLIER.
 - SEE EQUIPMENT CUT SHEETS FOR ADDITIONAL INFORMATION.

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TYPICAL DETAILS

S002

