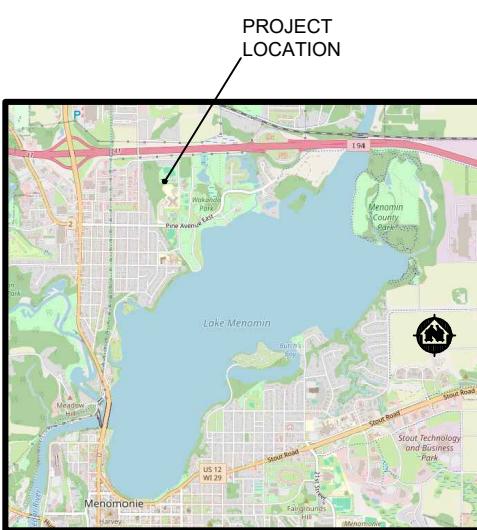
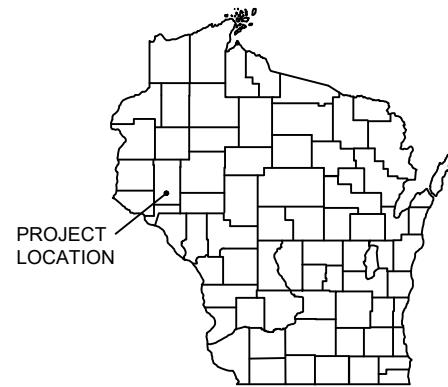


WELL # 9

WATER TREATMENT FACILITY - PHASE 1

WELL AND BUILDING

CITY OF MENOMONIE - DUNN COUNTY, WI



LOCATION MAP

NOT TO SCALE



UTILITIES

CITY OF MENOMONIE

PUBLIC WORKS DIRECTOR
800 WILSON AVENUE
MENOMONIE, WI 54751
DAVID SCHOFIELD
715-232-2221 (EXT.1020)
dschofield@menomonie-wi.gov

STREET DEPARTMENT
800 WILSON AVENUE
MENOMONIE, WI 54751
DAVID FRANK
715-232-2302
dfrank@menomonie-wi.gov

GAS:
XCEL ENERGY
2001 OLD HWY 35 S
HUDSON, WI 54106
CHRISTINE CARLI
715-232-7446
christine.j.carli@xcelenergy.com

ELECTRIC:
XCEL ENERGY
320 HELLER ROAD
MENOMONIE, WI 54751
KIP SHOCK
715-492-7268
Kip.L.Shock@xcelenergy.com

TELEPHONE:
AT&T WISCONSIN
304 SOUTH DEWEY STREET
EAU CLAIRE, WI 54710
RICK PODOLAK
715-839-5565
rp4514@att.com

WATER DEPARTMENT
800 WILSON AVENUE
MENOMONIE, WI 54751
JEREMY HOYT
715-232-2365
jhoyt@menomonie-wi.gov

WASTEWATER DEPARTMENT
800 WILSON AVENUE
MENOMONIE, WI 54751
PAUL STERK
715-232-2175
psterk@menomonie-wi.gov

CATV / INTERNET:
CINC
105 GARFIELD AVENUE
EAU CLAIRE, WI 54701
DAREN BAUER
715-836-5286
bauerdp@uwc.edu

SPECTRUM
1201 MCCANN DRIVE
ALTOONA, WI 54720
RYAN LUCKEN
715-833-7390
ryan.lucken@charter.com

WEST WISCONSIN TELECOM
912 CRESCENT STREET
MENOMONIE, WI 54751
BRADLEY SCHMIDTKNECHT
715-231-0504
brads@wwt.coop

DIGGERS HOTLINE
Dial **811** or (800) 242-8511
www.DiggersHotline.com

NOTE:
UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND CONTRACTOR
SHALL HAVE APPROPRIATE UTILITY MARK EXACT LOCATIONS PRIOR TO
CONSTRUCTION.

PROJECT DATE: DEC 23, 2025	DRAWN BY: JM	NO.	DATE	REVISION	BY
	DESIGNED BY: EE
	CHECKED BY: EE



ENGINEERING | ARCHITECTURE | SURVEYING
FUNDING | PLANNING | ENVIRONMENTAL
1230 South Boulevard, Baraboo WI 53913
(608) 356-2771 www.msa-ps.com
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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

GENERAL
TITLE SHEET

PROJECT NO.
05323007.1
SHEET
00G001

SHEET INDEX - PHASE 1

00 - GENERAL		95 - WELL AND BUILDING	
00G001	TITLE SHEET	95S001	STRUCTURAL NOTES AND SCHEDULES
00G002	SHEET INDEX AND CIVIL LEGEND	95S101	FOUNDATION PLAN - DETENTION TANK
00A101	ARCHITECTURE GENERAL NOTES	95S102	FOUNDATION PLAN
00A102	GENERAL ACCESSIBILITY GUIDELINES	95S103	FRAMING PLAN
00E001	ELECTRICAL SYMBOLS AND ABBREVIATIONS	95S104	FRAMING PLAN
00E002	ELECTRICAL SYMBOLS AND ABBREVIATIONS	95S301	STRUCTURAL SECTION
00E003	ELECTRICAL SYMBOLS AND ABBREVIATIONS	95S302	STRUCTURAL BUILDING SECTION
		95S501	STRUCTURAL DETAILS
		95S502	STRUCTURAL DETAILS
		95S503	STRUCTURAL DETAILS
		95S504	STRUCTURAL DETAILS
		95A100	LIFE SAFETY PLAN
		95A101	FLOOR PLAN
		95A102	FLOOR PLAN - EQUIPMENT PLATFORM
		95A103	ROOF PLAN
		95A201	EXTERIOR ELEVATIONS
		95A202	EXTERIOR ELEVATIONS
		95A203	INTERIOR ELEVATIONS
		95A301	BUILDING SECTIONS
		95A302	BUILDING SECTIONS
		95A401	WALL SECTIONS
		95M101	PROCESS PLAN VIEW
		95M301	PROCESS SECTION VIEWS
		95M302	PROCESS SECTION VIEWS
		95M501	PRE CHLORINATION SCHEMATIC
		95M502	POST CHLORINATION SCHEMATIC
		95M503	PROCESS DETAILS
		95FP101	FLOOR PLAN - FIRE PROTECTION
		95P000	GENERAL NOTES
		95P101	UNDERGROUND FLOOR PLAN
		95P102	FIRST FLOOR PLAN
		95P201	MEZZANINE FLOOR PLAN
		95P301	ROOF PLAN
		95P401	PLUMBING ISOMETRIC
		95H101	HVAC - FIRST FLOOR PLAN
		95H102	HVAC - MEZZANINE PLAN
		95E101	LIGHTING PLAN
		95E102	ELECTRICAL PLAN
		95E103	ELECTRICAL PLAN
		95E104	PROCESS ELECTRICAL PLAN
		95E105	PROCESS ELECTRICAL PLAN
		99 - STANDARD DETAILS AND SCHEDULES	
		99A501	ARCHITECTURAL DETAILS
		99A502	ARCHITECTURAL DETAILS
		99A503	ARCHITECTURAL DETAILS
		99A504	ARCHITECTURAL DETAILS
		99A505	ARCHITECTURAL DETAILS
		99A601	SCHEDULES
		99M601	PROCESS SCHEDULES
		99P501	PLUMBING DETAILS
		99P502	PLUMBING DETAILS
		99P601	PLUMBING SCHEDULES
		99H501	HVAC - GENERAL NOTES AND DETAILS
		99H601	HVAC - SCHEDULES
		99E501	ELECTRICAL DETAILS
		99E502	ELECTRICAL DETAILS
		99E601	PANEL SCHEDULES
		99E602	PLC AND MCC I-O SCHEDULES
		99E603	WIRING SCHEDULES
		99E604	WIRING SCHEDULES
		99E605	WIRING SCHEDULES

GENERAL NOTES

- A. FOR CLARITY, PORTIONS OF THE WORK FOR A DISCIPLINE MAY BE SHOWN ON A SHEET WITH DIFFERENT DISCIPLINE DESIGNATION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE THE WORK OF ALL DISCIPLINES SO THAT ALL WORK IS COMPLETED AS SHOWN, FOR A COMPLETE AND OPERABLE SYSTEM.
- B. THE CONTRACT DOCUMENTS CONSIST OF THE DRAWING SET AND PROJECT MANUAL (SPECIFICATIONS) WHICH ARE INTENDED TO BE COMPLEMENTARY AND TO BE USED IN CONJUNCTION WITH ONE ANOTHER FOR A COMPLETE PROJECT. IF DISCREPANCIES OCCUR BETWEEN THESE TWO DOCUMENTS, CONTACT THE ENGINEER DURING BIDDING FOR A RESOLUTION; OTHERWISE, THE MOST RESTRICTIVE REQUIREMENT SHALL BE CONSIDERED TO BE PART OF THIS PROJECT.
- C. DO NOT SCALE DRAWINGS, IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ENGINEER BEFORE CONTINUING CONSTRUCTION.
- D. ALL ITEMS NOT NOTED AS EXISTING ARE NEW.
- E. OPENINGS FOR PROCESS MECHANICAL, PLUMBING, HVAC, AND ELECTRICAL WORK IN WALLS, CEILINGS, FLOORS, ETC, SHALL BE PROVIDED BY THE GC, UNO. LOCATION AND SIZE OF THESE OPENINGS ARE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR.
- F. OPENINGS IN EXTERIOR ABOVE GRADE WALLS AND INTERIOR WALLS AND FLOORS BY ALL TRADES SHALL BE FLASHED AND CAULKED BY THE GC, UNO. ALL OPENINGS IN BELOW GRADE WALLS SHALL BE SEALED BY THE RESPECTIVE CONTRACTOR, EXCEPT AT THE INTERIOR SIDE OF THE WALL WHICH SHALL BE SEALED BY THE GC, UNO. ALL ROOF PENETRATIONS SHALL BE FLASHED BY THE ROOFING CONTRACTOR.
- G. CONTRACTORS SHALL COORDINATE ALL WORK TO AVOID CONFLICT WITH OTHER CONTRACTOR'S WORK. NOTIFY ENGINEER OF ANY CONFLICTS OR VARIANCES BEFORE COMMENCING CONSTRUCTION.
- H. INSTALL ALL WORK TO PROVIDE MAXIMUM CLEARANCES, UNO.
- I. ITEMS SHALL BE MOUNTED TO PROVIDE ADA ACCESSIBILITY, EXCEPT WHERE SPECIFICALLY REQUIRED OR NOTED OTHERWISE.
- J. EXCAVATION AND SUBGRADE PREPARATIONS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- K. IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY THE ENGINEER.
- L. ALL EQUIPMENT CONCRETE BASE PADS AND CONCRETE HOUSEKEEPING PADS ARE TO BE PROVIDED BY THE GC.
- M. ALL EXISTING DIMENSIONS LISTED AT +/- AS WELL AS CONDITIONS ARE TO BE FIELD VERIFIED PRIOR TO START OF CONSTRUCTION WORK.
- N. ALL HOLES/OPENINGS THROUGH CONCRETE AND MASONRY SHALL BE DRILLED OR SAW-CUT. JACKHAMMERING AND OTHER METHODS ARE NOT ACCEPTABLE.

PROCESS AND/OR SITE PIPING GENERAL NOTES

1. ALL BURIED PIPING (EXCEPT AIR) WITH LESS THAN A MINIMUM BURY DEPTH OF 7-FEET, SHALL BE INSULATED PER PIPE INSULATION DETAIL.
2. ALL AIR PIPING SHALL HAVE A MINIMUM BURY OF 5-FEET.
3. EXISTING PIPING AND UTILITIES CALLED OUT TO BE ABANDONED OR REMOVED ARE SHOWN ON THE SITE DEMOLITION PLAN FOR CLARITY.
4. SEE SPECIFIC STRUCTURE SHEETS FOR PIPING CONNECTION ELEVATIONS AND DETAILS.
5. CONTRACTOR SHALL FIELD VERIFY ALL TIE-IN ELEVATIONS, PIPING OUTSIDE DIAMETERS, AND PIPE JOINT TYPES WHERE NEW PIPING CONNECTS TO EXISTING PIPING OR EXISTING STRUCTURES PRIOR TO BEGINNING CONSTRUCTION. FIELD VERIFICATIONS SHALL BE SUBMITTED TO ENGINEER AS A SHOP DRAWING.

LEGEND

■ —	EXISTING WATER MAIN
■ — □	EXISTING WATER MAIN, VALVE & HYDRANT
— □	EXISTING WATER SERVICE & CURB STOP
— □	PROPOSED WATER MAIN, VALVE, & HYDRANT
— □	PROPOSED WATER SERVICE & CURB STOP
— SAN	EXISTING SANITARY SEWER & MANHOLE
— SAN	PROPOSED SANITARY SEWER & MANHOLE
— FM	EXISTING FORCEMAIN
— SS	EXISTING STORM SEWER & INLET
— SS	PROPOSED STORM SEWER & INLET
— SS	PROPOSED STORM SEWER & MANHOLE
— E	BURIED ELECTRIC
— G	BURIED GAS & VALVE
— TV	BURIED CABLE TELEVISION
— T	BURIED TELEPHONE
— FO	BURIED FIBER OPTICS
— OH	OVERHEAD UTILITY
— + + +	RAILROAD TRACKS
— + + +	EXISTING CURB & GUTTER
— + + +	PROPOSED CURB & GUTTER
— — —	EXISTING SIDEWALK
— — —	PROPOSED SIDEWALK
— CP	EXISTING CULVERT PIPE
— CP	PROPOSED CULVERT PIPE
— * *	FENCE LINE
— - -	DRAINAGE ARROW
— - -	SILT FENCE
— - -	RIGHT-OF-WAY
— - -	BASELINE
— - -	PROPERTY LINE
— - -	TREE LINE
●	BENCHMARK
●	IRON PIPE
●	IRON ROD
▲	CONTROL POINT
— GUY	UTILITY POLE & GUY
— GUY	SOIL BORING
— GUY	LIGHT POLE
— GUY	PEDESTAL
— GUY	STREET SIGN
— GUY	MAILBOX
— GUY	FLAGPOLE
— GUY	TREE - DECIDUOUS
— GUY	TREE - CONIFEROUS
— GUY	TREE TO BE REMOVED

DEMOLITION AND REMOVAL GENERAL NOTES

- D1. THE GENERAL CONTRACTOR SHALL COORDINATE AND PROVIDE ALL DEMOLITION AND REMOVAL OF DEBRIS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION.
- D2. ALL EXISTING DIMENSIONS ARE +/- AND SHALL BE FIELD VERIFIED.

GENERAL NOTES

A. SEE GENERAL NOTES ON SHEET 00G002.

B. ALL DIMENSIONING IS TO FACE OF STUD, FACE OF CONCRETE MASONRY UNITS, FACE OF CONCRETE, OR FACE OF EXISTING SURFACES, UNO.

C. EXTERIOR WALL AND RELATED OPENINGS BY ALL TRADES SHALL BE FLASHED AND CAULKED BY THE GC. ALL PENETRATIONS THROUGH THE ROOF SHALL BE FLASHED OR SEALED WEATHER-TIGHT BY THE ROOFING CONTRACTOR.

D. OPENINGS FOR PLUMBING, PROCESS, VENTILATING, AND ELECTRICAL WORK IN WALLS, FLOORS, CEILING, AND ROOF SHALL BE PROVIDED BY THE GC. LOCATION AND SIZE SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTORS.

E. CONTRACTOR TO COORDINATE STRUCTURAL, ARCHITECTURAL, PLUMBING, PROCESS, AND HVAC PLANS FOR DETAILS, DIMENSIONS, ELEVATIONS, OPENINGS, ETC. NOTIFY ARCHITECT OF ANY VARIANCE BEFORE COMMENCING CONSTRUCTION.

F. IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY THE ENGINEER

G. GENERAL CONTRACTOR SHALL PROVIDE ALL CONCRETE EQUIPMENT AND HOUSEKEEPING PADS INSIDE THE BUILDING AS INDICATED ON THE PLUMBING, PROCESS MECHANICAL, HVAC, AND ELECTRICAL DRAWINGS.

H. ALL PIPE PENETRATIONS THROUGH EXTERIOR MASONRY WALL SHALL BE SEALED ON BOTH SIDES. SEE ARCHITECTURAL DETAILS.

I. ALL OPENINGS THROUGH INTERIOR MASONRY WALLS AND CONCRETE FLOORS AND CEILING SHALL BE SEALED WATER AND AIR/VAPOR TIGHT. DUCTS AND PIPES SHALL HAVE BACKER ROD AND SEALANT AROUND PENETRATIONS. CONDUIT MAY BE GROUTED SOLID OR SEALED SAME AS A PIPE. SEE ARCHITECTURAL DETAILS.

J. ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE SEALED WITH UL APPROVED FIRESTOP SYSTEMS - SEE SPECIFICATION.

GENERAL PAINTING NOTES

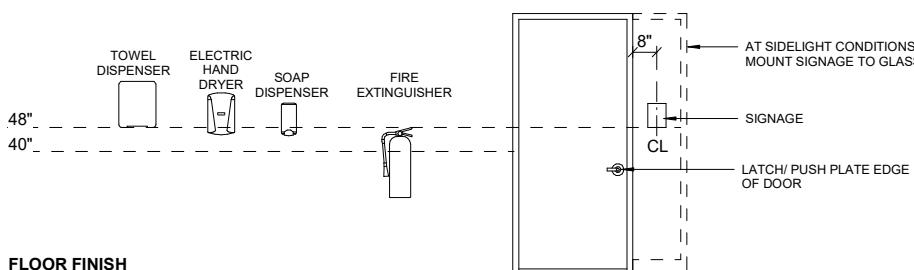
P1. SEE SPECIFICATION 09 96 00 FOR PAINTING AND PREPARATION REQUIREMENTS.

P4. WHERE CAULKING/SEALING IS REQUIRED AT PAINTED SURFACES, SEALANT SHALL BE INSTALLED AFTER PAINTING IS COMPLETE - SEALANT SHALL NOT BE PAINTED, UNO.

P6. FIRST COAT OF PAINT FOR MASONRY, CAST-IN-PLACE CONCRETE, AND PRECAST CONCRETE PLANKS SHALL BE HEAVY DUTY BLOCK FILLER (IN LIEU OF SPECIFIED SYSTEM REQUIREMENTS).

P9. ALL EXPOSED INTERIOR AND EXTERIOR DUCTWORK, PIPING, CONDUIT, HANGERS, BRACKETS, SUPPORTS, FASTENERS, ETC., SHALL BE PAINTED, EXCEPT AS SPECIFICALLY NOTED IN SPECIFICATION SECTION 09 96 00 (PREFINISHED, JACKETED, ETC.) OR AS SPECIFICALLY INDICATED ON DRAWINGS.

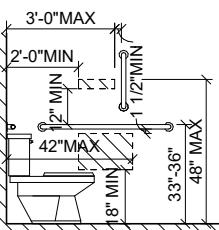
NOTE: DIMENSIONS ARE
CLEAR INSIDE FINISHED
MEASUREMENTS.



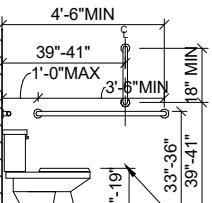
FLOOR FINISH

ACCESSIBILITY GUIDELINES
THE DIAGRAM SHOWS RECOMMENDED MOUNTING HEIGHT TO
OPERABLE CONTROLS. A MINIMUM 30" x 48" CLEAR FLOOR
SPACE IS REQUIRED IN FRONT OF ALL ACCESSIBLE FIXTURES
AND ACCESSORIES.

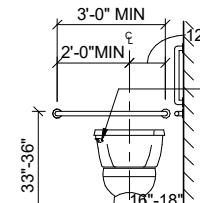
TYPICAL ACCESSORY MOUNTING HEIGHT



DISPENSER ABOVE &
BELOW GRAB BAR



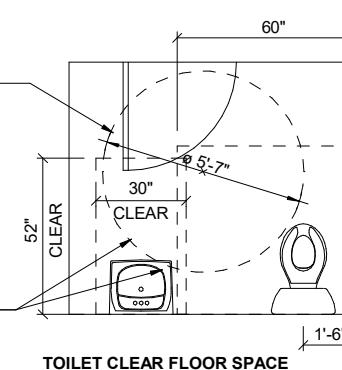
SIDE WALL GRAB BAR
FOR WATER CLOSET



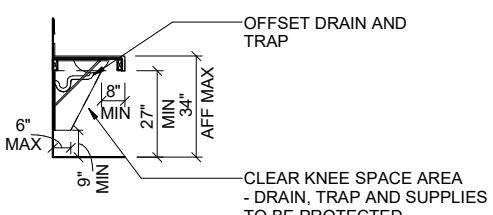
REAR WALL GRAB BAR
FOR WATER CLOSET
TOP OF SEAT

TURNING RADIUS CAN
OVERLAP DOOR
SWING IN SINGLE
USER ROOM.

FLOOR CLEAR AREA
AND TURNING RADIUS
CAN EXTEND MAX 8"
BEYOND FACE OF
SINK, IN KNEE AREA.



TOILET CLEAR FLOOR SPACE



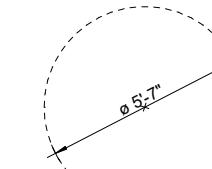
LAVATORY CLEARANCES

ACCESSIBLE SIGNAGE MOUNTING LOCATION

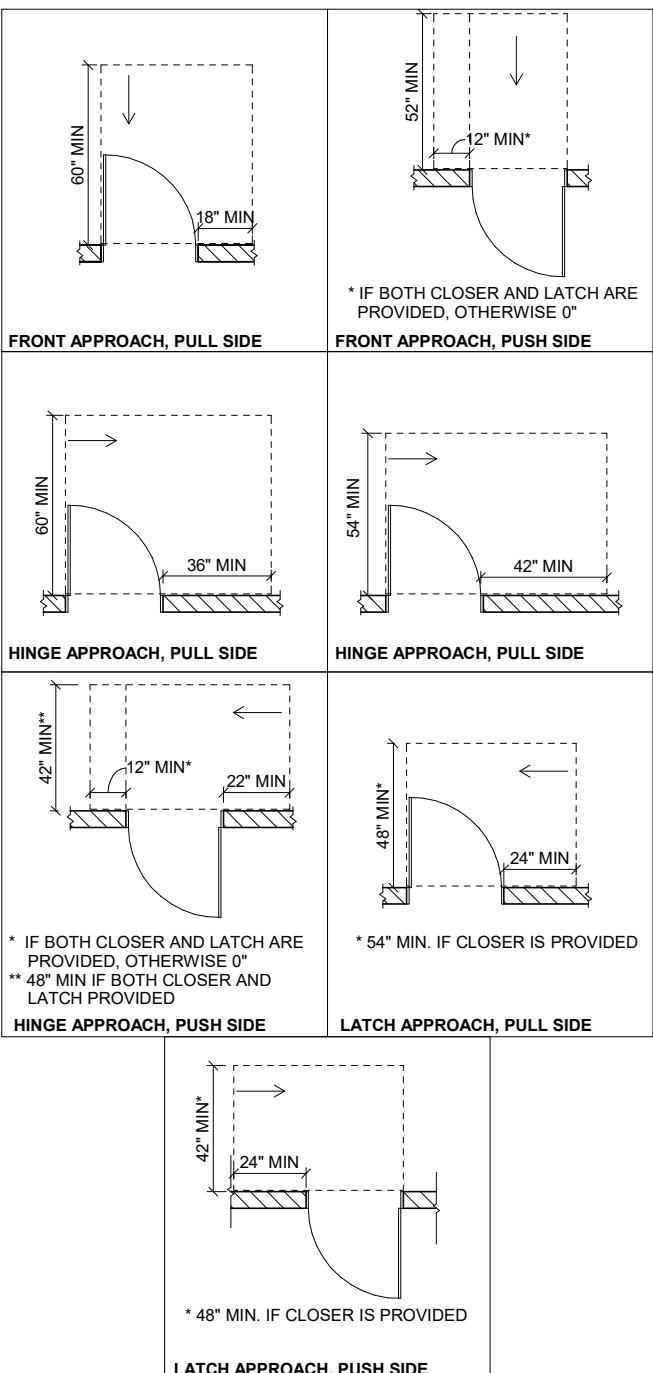
CLEAR FLOOR SPACE



CLEAR FLOOR SPACE



CIRCULAR TURNING RADIUS



NOTE: ARROW INDICATES DIRECTION OF TRAVEL

ACCESSIBLE CLEARANCES

MANEUVERING CLEARANCE AT SWINGING DOORS

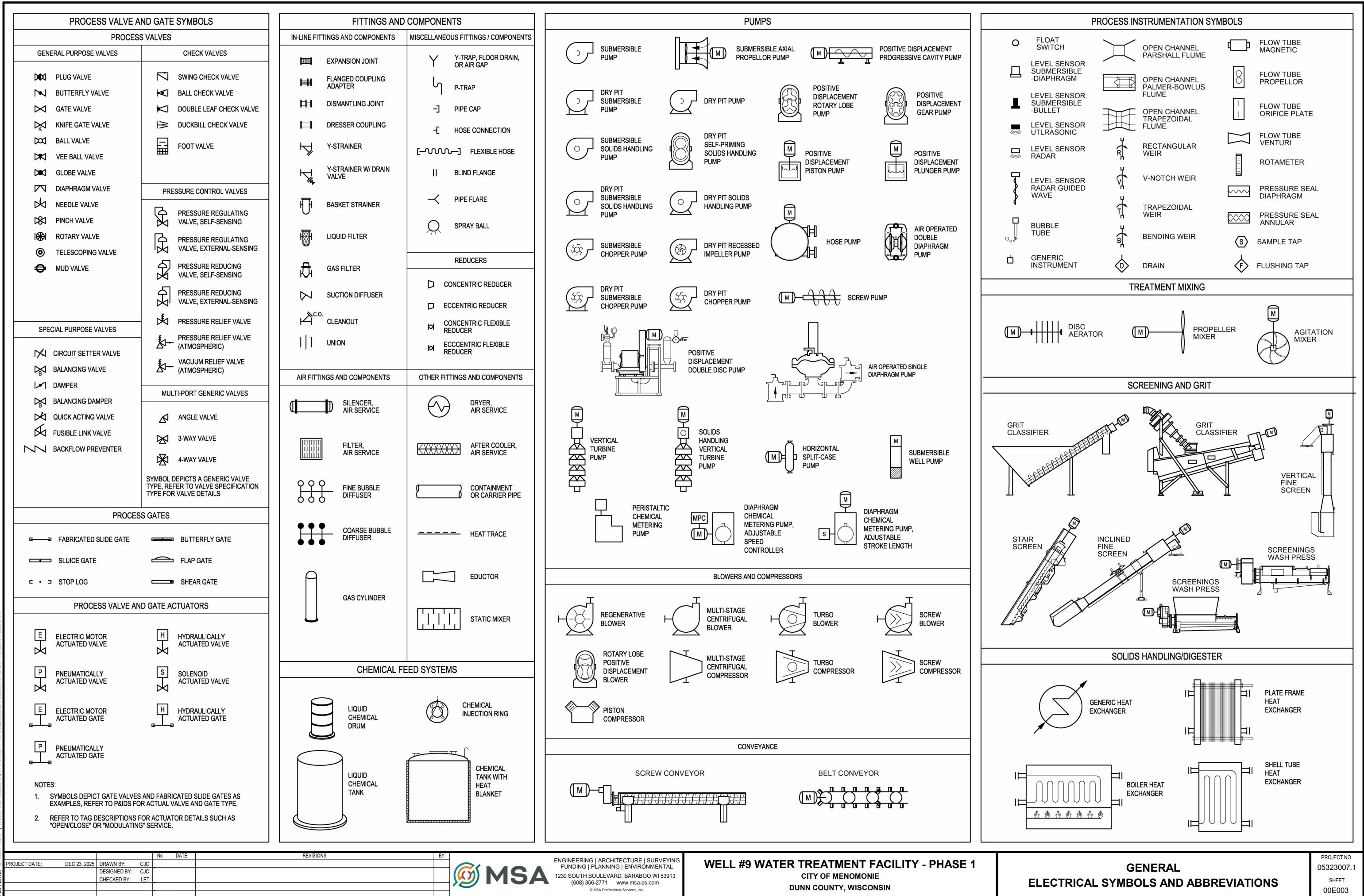
PROJECT DATE:	DEC 23, 2025	DRAWN BY:	CKW	No.	DATE	REVISIONS	BY
DESIGNED BY:	XL						
CHECKED BY:	CJW						

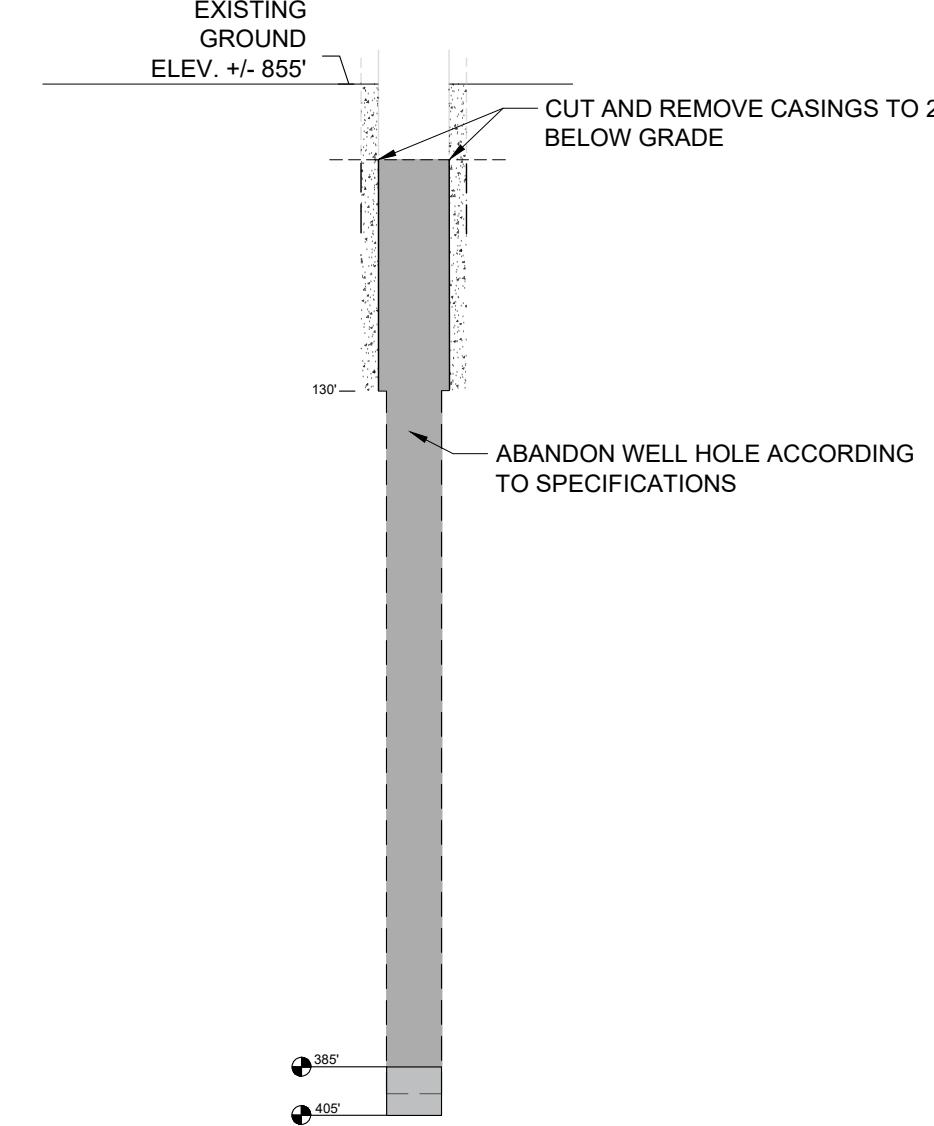


EQUIPMENT / DEVICE TAG NAMING AND ADDITIONAL DESCRIPTOR CONVENTIONS									
COMMON NOTATIONS (WHERE REFERENCED UNDER TAG CATEGORY)		VESSELS, STRUCTURES, AND TANKS							
ADDITIONAL DESCRIPTORS:		TAG NAMING:							
<p>P = CONTRACTUAL PROVISION REQUIREMENTS (ONLY IDENTIFIED ON CONSTRUCTION CONTRACT DRAWINGS) WHERE:</p> <p>(BLANK) = EQUIPMENT PROVIDED UNDER DIVISION 26, REFER TO SPECIFICATIONS</p> <p>* = EXISTING EQUIPMENT WITH WORK REQUIRED</p> <p>** = EQUIPMENT PROVIDED UNDER ANOTHER DIVISION</p> <p>*** = SPECIAL CONDITION, REFER TO NOTES</p>		<p>T = EQUIPMENT IDENTIFIER</p> <p>W = UNIT PROCESS NUMBER</p> <p>X = LOOP NUMBER</p> <p>Y = UNIT NUMBER, USED FOR MULTIPLE DEVICES WITH THE SAME W-X DESIGNATION</p>							
C = ATMOSPHERE (REFER TO SPACE CLASSIFICATION ON PLANS RATING REQUIREMENTS) / INSTALLATION REQUIREMENTS FOR ELECTRICALLY POWERED EQUIPMENT WHERE:		<p>(BLANK) = NON-RATED ATMOSPHERE / NORMAL INSTALLATION REQUIREMENTS</p> <p>i.s. = HAZARDOUS LOCATION ATMOSPHERE / INTRINSICALLY SAFE INSTALLATION REQUIREMENTS</p> <p>x.p. = HAZARDOUS LOCATION ATMOSPHERE / EXPLOSION PROOF INSTALLATION REQUIREMENTS</p>							
AUTOMATICALLY OPERATED VALVES AND GATES		MANUALLY OPERATED VALVES AND GATES							
TAG NAMING:		TAG NAMING:							
<p>T = FLUID ABBREVIATION WHERE:</p> <p>A = AIR</p> <p>C = CHEMICAL</p> <p>F = FUEL</p> <p>L = LIQUID</p> <p>S = SOLIDS</p> <p>W = WATER (TREATED, NON-POTABLE, OR POTABLE)</p>		<p>T = FLUID ABBREVIATION WHERE:</p> <p>A = AIR</p> <p>C = CHEMICAL</p> <p>F = FUEL</p> <p>L = LIQUID</p> <p>S = SOLIDS</p> <p>W = WATER (TREATED, NON-POTABLE, OR POTABLE)</p>							
U = CONTROL TYPE WHERE:		<p>U = CONTROL TYPE WHERE:</p> <p>(BLANK) = MANUALLY CONTROLLED</p>							
V = ELEMENT TYPE WHERE:		<p>V = ELEMENT TYPE WHERE:</p> <p>V = VALVE</p> <p>G = GATE</p>							
W = UNIT PROCESS NUMBER		<p>W = UNIT PROCESS NUMBER</p>							
X = LOOP NUMBER		<p>X = LOOP NUMBER</p>							
Y = UNIT NUMBER, USED FOR MULTIPLE DEVICES WITH THE SAME W-X DESIGNATION		<p>Y = UNIT NUMBER, USED FOR MULTIPLE DEVICES WITH THE SAME W-X DESIGNATION</p>							
Z = SET NUMBER, USED FOR MULTIPLE DEVICES WITH THE SAME W-X-Y DESIGNATION		<p>Z = SET NUMBER, USED FOR MULTIPLE DEVICES WITH THE SAME W-X-Y DESIGNATION</p>							
ADDITIONAL DESCRIPTORS:		ADDITIONAL DESCRIPTORS:							
<p>A = NOMINAL PIPE SIZE</p> <p>B = VALVE OR GATE TYPE, REFER TO SPECIFICATIONS</p> <p>P = CONTRACTUAL PROVISION REQUIREMENTS (SEE COMMON NOTATIONS)</p>		<p>A = NOMINAL PIPE SIZE</p> <p>B = VALVE OR GATE TYPE, REFER TO SPECIFICATIONS</p> <p>P = CONTRACTUAL PROVISION REQUIREMENTS (SEE COMMON NOTATIONS)</p>							
C = ATMOSPHERE/INSTALLATION REQUIREMENTS FOR ELECTRICALLY POWERED EQUIPMENT (SEE COMMON NOTATIONS)									
D = ACTUATOR TYPE OR SERVICE WHERE:		<p>(BLANK) = MANUAL</p> <p>M = MODULATING</p> <p>O/C = OPEN/CLOSE</p>							
EQUIPMENT		ADDITIONAL DESCRIPTORS:							
TAG NAMING:		<p>A = NUMBER OF UNITS DEPICTED (Y VARIES WITH ASSOCIATED EQUIPMENT OR DEVICE UNIT NUMBER)</p> <p>B = NUMBER OF SETS DEPICTED, ONLY IDENTIFIED IF NECESSARY (Z VARIES FROM 1 TO B)</p> <p>P = CONTRACTUAL PROVISION REQUIREMENTS (SEE COMMON NOTATIONS)</p>							
C = ATMOSPHERE/INSTALLATION REQUIREMENTS FOR ELECTRICALLY POWERED EQUIPMENT (SEE COMMON NOTATIONS)		<p>C = ATMOSPHERE/INSTALLATION REQUIREMENTS FOR ELECTRICALLY POWERED EQUIPMENT (SEE COMMON NOTATIONS) / EXPLOSION PROOF INSTALLATION REQUIREMENTS</p>							
D = SUPPLEMENTAL DESCRIPTION, REFER TO ABBREVIATIONS		<p>XX = CONTROL SYSTEM INPUT/OUTPUT TYPE WHERE:</p> <p>DI = DISCRETE INPUT</p> <p>DO = DISCRETE OUTPUT</p> <p>AI = ANALOG INPUT</p> <p>AO = ANALOG OUTPUT</p>							
YY = NUMBER OF POINTS DEPICTED, REFER TO I-O SCHEDULES									
PROCESS LINES		CONTROL PANELS							
TAG NAMING:		TAG NAMING:							
<p>X = NOMINAL PIPE DIAMETER IN INCHES, (BLANK) INDICATES OPEN CONDUIT</p> <p>Y = FLOW STREAM IDENTIFIER FROM "FLOW STREAM ABBREVIATION TABLE"</p> <p>Z = UNIT PROCESS NUMBER (WHERE NOTED)</p> <p>AA = UNIT PROCESS FLOW STREAM NUMBER (WHERE NOTED)</p> <p>BB = FLOW STREAM ROUTE NUMBER (WHERE NOTED)</p> <p>CC = FLOW STREAM ROUTE SEGMENT NUMBER (WHERE NOTED)</p>		<p>T = FIRST IDENTIFIER WHERE:</p> <p>(BLANK) = LOCAL CONTROL PANEL</p> <p>XXX = SCADA SYSTEM PLC CONTROL PANEL LOCATION STRUCTURE NUMBER</p>							
W = UNIT PROCESS NUMBER (WHERE NOTED)		<p>UV = SECOND IDENTIFIER WHERE:</p> <p>LCP = LOCAL CONTROL PANEL</p> <p>PLC = SCADA SYSTEM PLC CONTROL PANEL</p>							
X = LOOP NUMBER FOR LOCAL CONTROL PANELS		<p>W = UNIT PROCESS NUMBER FOR LOCAL CONTROL PANELS</p>							
Y = UNIT NUMBER FOR LOCAL CONTROL PANELS OR SCADA SYSTEM PLC CONTROL PANELS		<p>X = LOOP NUMBER FOR LOCAL CONTROL PANELS</p>							
ADDITIONAL DESCRIPTORS:		<p>P = CONTRACTUAL PROVISION REQUIREMENTS (SEE COMMON NOTATIONS)</p>							
W = UNIT PROCESS NUMBER									
A = INTERFACE LETTER									
TO = DESTINATION DRAWING									
FROM = SOURCE DRAWING									
D = DESCRIPTIVE TEXT									
REVISIONS									
PROJECT DATE: DEC 23, 2025	DRAWN BY: CJC	NO:	DATE:	BY:					
DESIGNED BY: CJC									
CHECKED BY: LET									

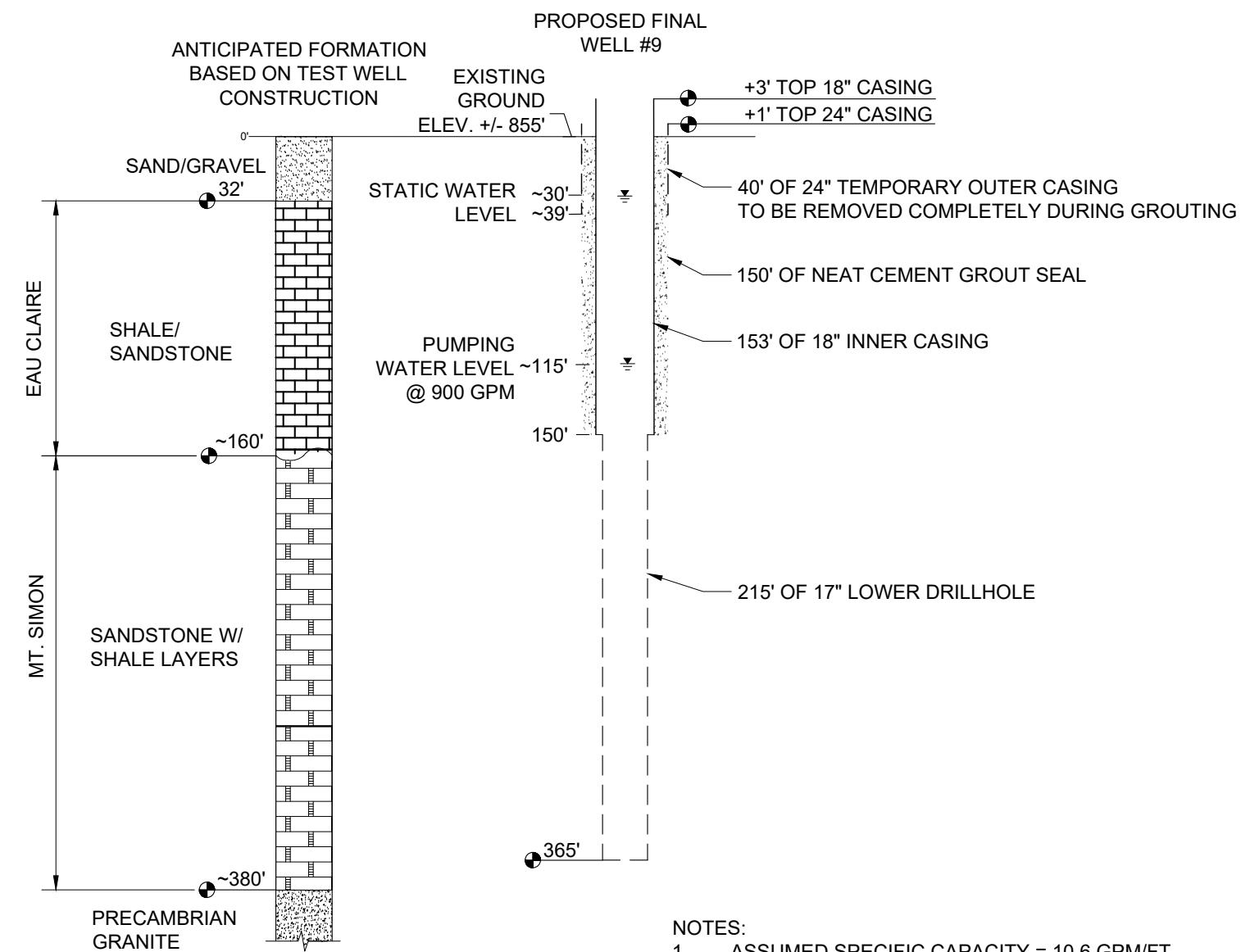


INSTRUMENT SOCIETY OF AMERICA INSTRUMENT DEFINITION TABLE									
LETTER	FIRST LETTER		SUCCEEDING LETTERS						
	PROCESS OR INITIATING VARIABLE	VARIABLE MODIFIER	READOUT/PASSIVE FUNCTION	OUTPUT/ACTIVE FUNCTION				FUNCTION MODIFIER	
A	ANALYSIS (+)		ALARM						
B	BURNER, COMBUSTION		USER'S CHOICE (+)	USER'S CHOICE (+)				USER'S CHOICE (+)	
C	CONDUCTIVITY			CONTROL				DEVIATION	
D	DENSITY		DIFFERENTIAL						
E	VOLTAGE		RATIO (FRACTION)	SENSOR OR PRIMARY ELEMENT					
F	FLOW			GATE					
G	USER'S CHOICE (+)			HIGH					
H	HAND (MANUAL)		INDICATE						
I	CURRENT		SCAN						
J	POWER			CONTROL STATION					
K	TIME OR SCHEDULE		TIME RATE OF CHANGE						
L	LEVEL			LOW					
M	MOISTURE			MIDDLE OR INTERMEDIATE					
N	TORQUE			USER'S CHOICE (+)				USER'S CHOICE (+)	
O	USER'S CHOICE (+)			ORIFICE OR RESTRICTION				OPEN	
P	PRESSURE (OR VACUUM)			POINT (TEST CONNECTION)					
Q	QUANTITY OR EVENT (+)		INTEGRATE OR TOTALIZE						
R	RADIATION								





2 TEST WELL ABANDONMENT DETAIL
05C001



NOTES:

1. ASSUMED SPECIFIC CAPACITY = 10.6 GPM/FT.
2. TEST PUMPING OF NEW WELL SHALL BE DIRECTED TO CITY STORM SEWER SYSTEM.

1 WELL 9 DETAIL
05C001

PROJECT DATE: DEC 23, 2025.	DRAWN BY: JM	NO.	DATE	REVISION	BY



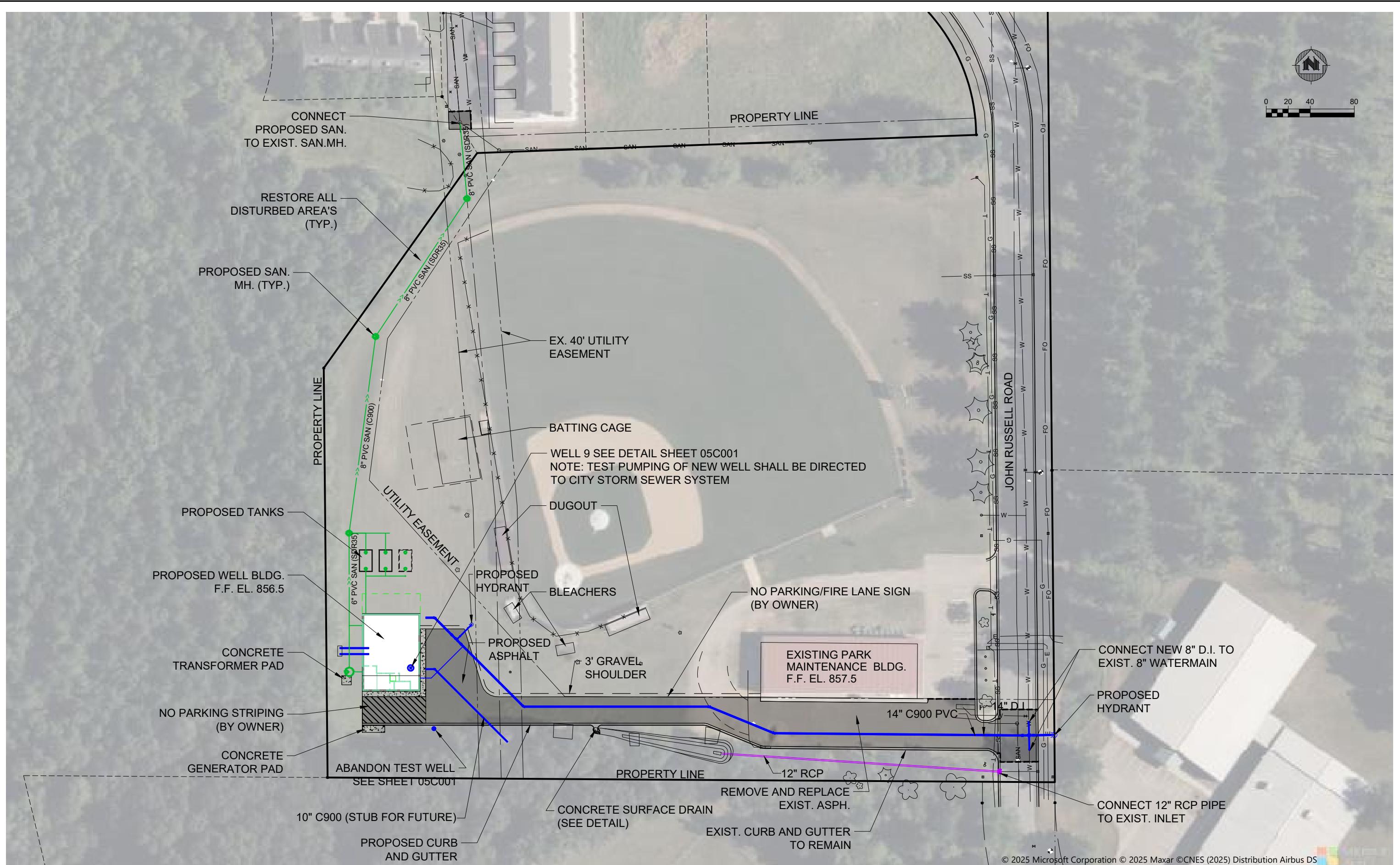
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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

SITE CIVIL
WELL 9 CONSTRUCTION DETAIL

PROJECT NO 05323007.1
SHEET 05C001



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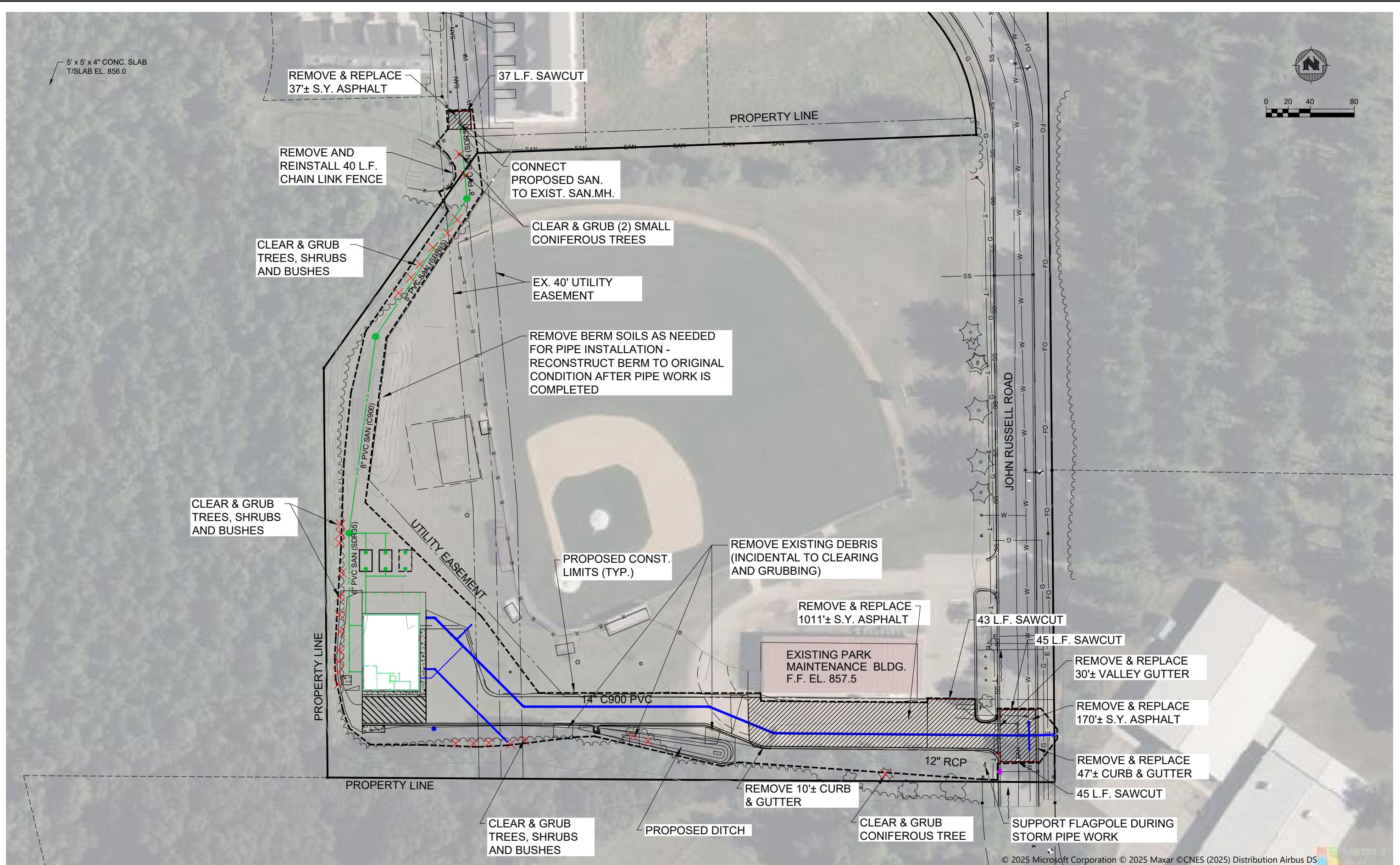


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CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

SITE CIVIL
OVERALL SITE PLAN

PROJECT NO.
05323007.1
SHEET
05C101



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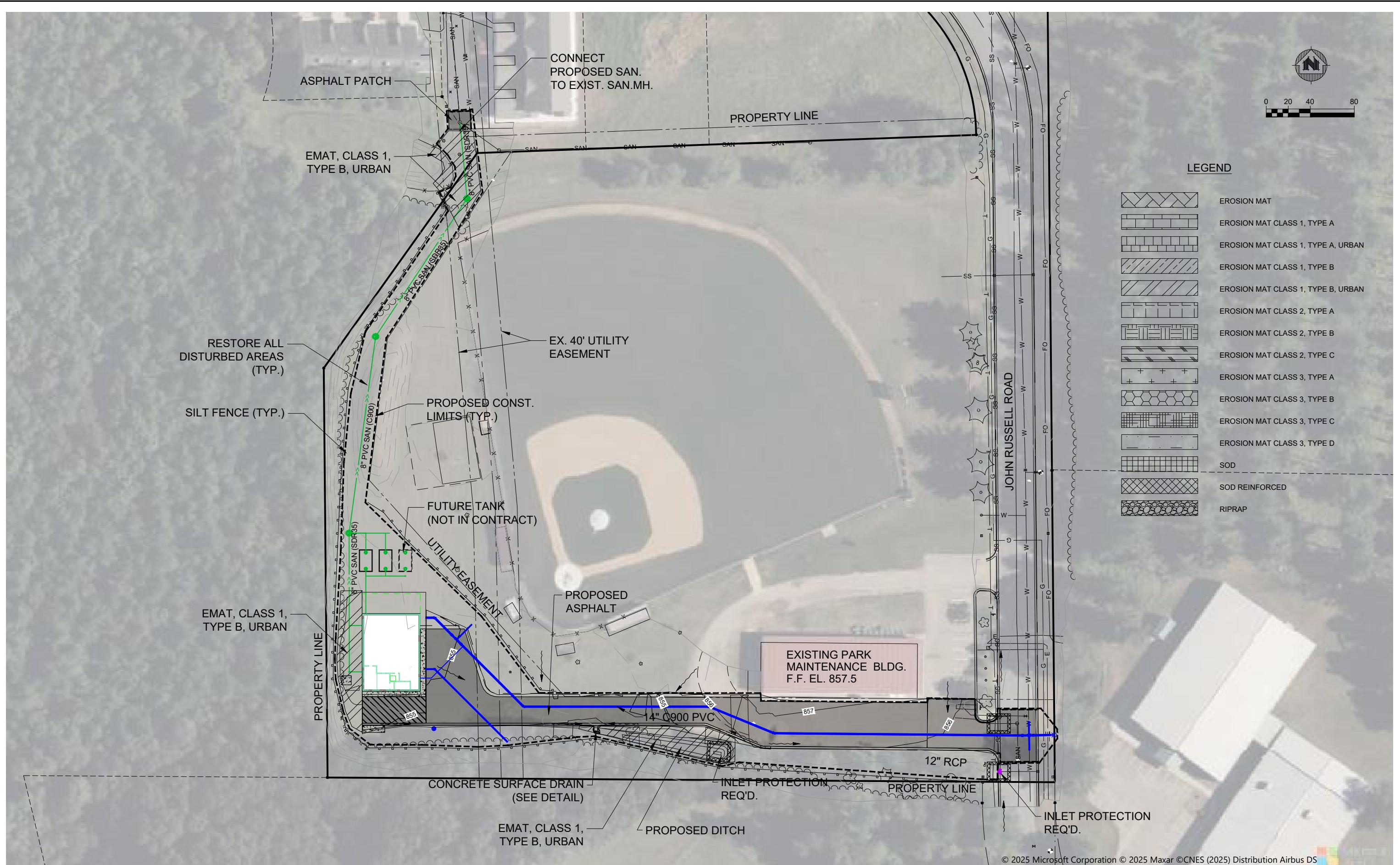


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CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

SITE CIVIL
DEMOLITIONS & REMOVALS

PROJECT NO.
05323007.1
SHEET
05C102



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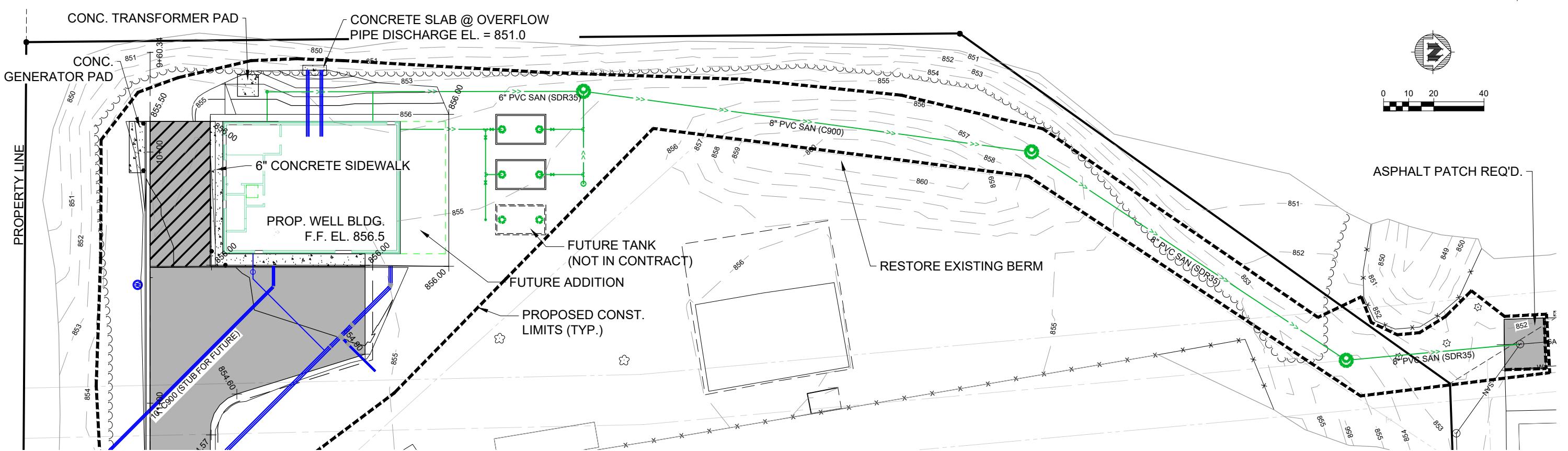
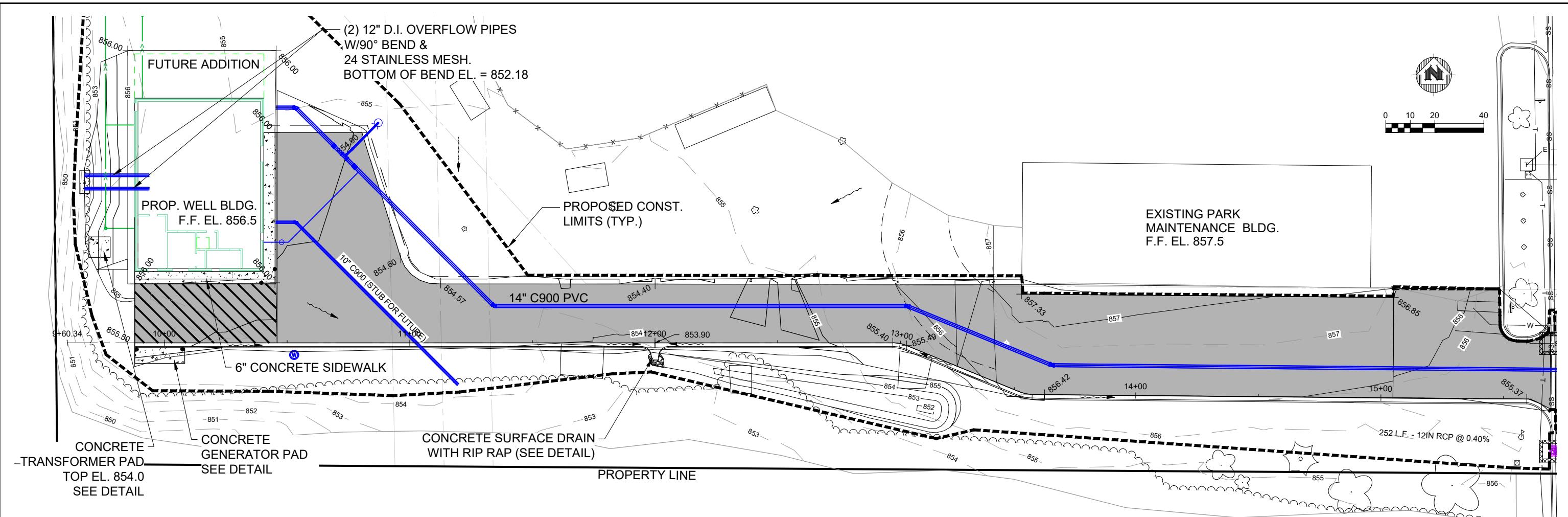


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SITE CIVIL
EROSION CONTROL PLAN

PROJECT NO.
05323007.1
SHEET
05C103



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DESIGNED BY: EE				
CHECKED BY: EE				

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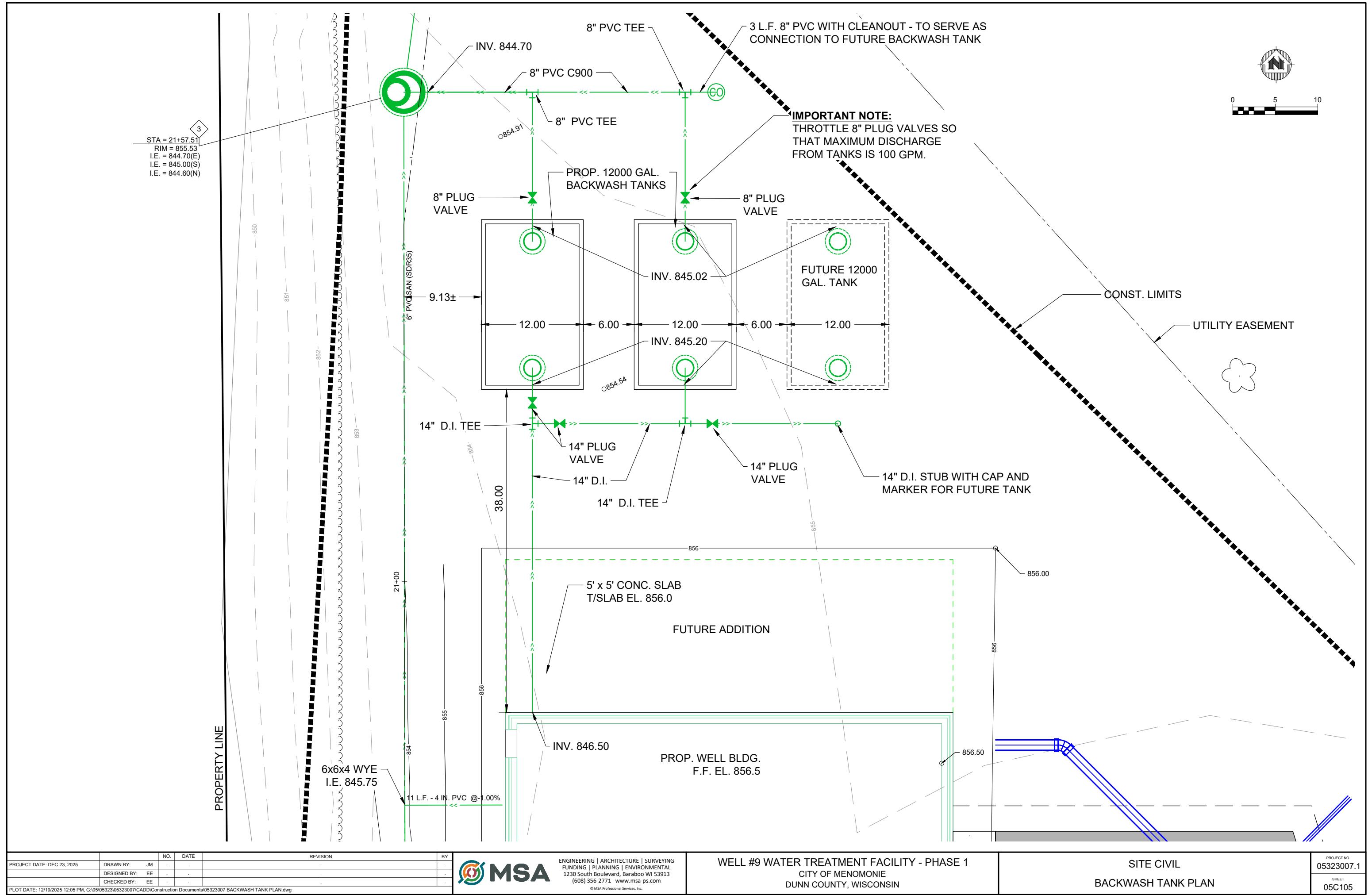


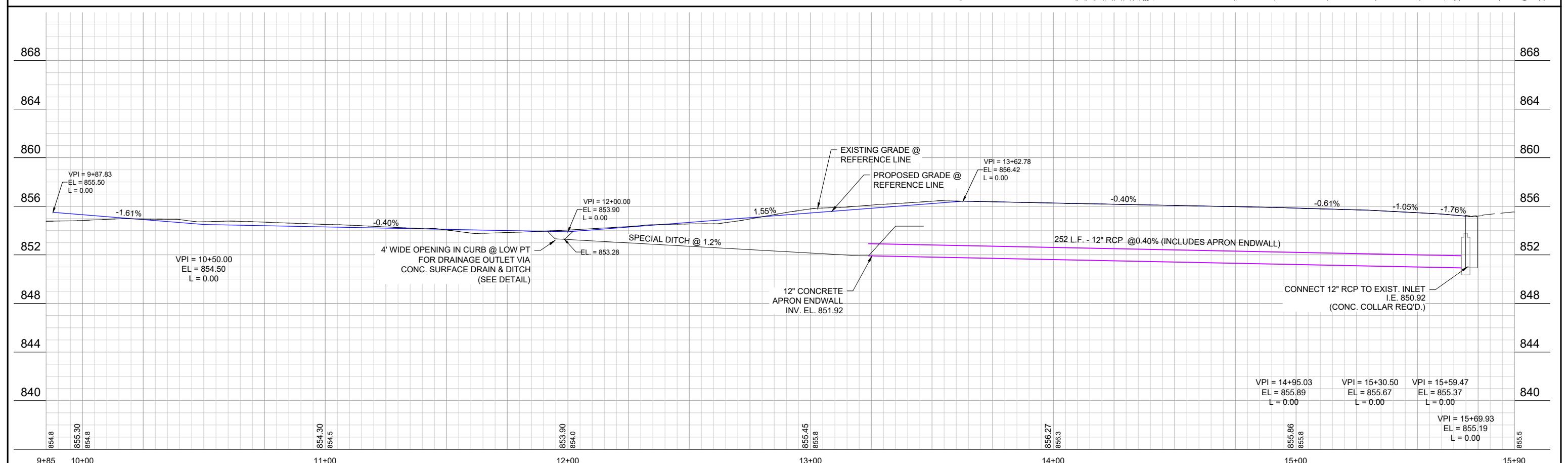
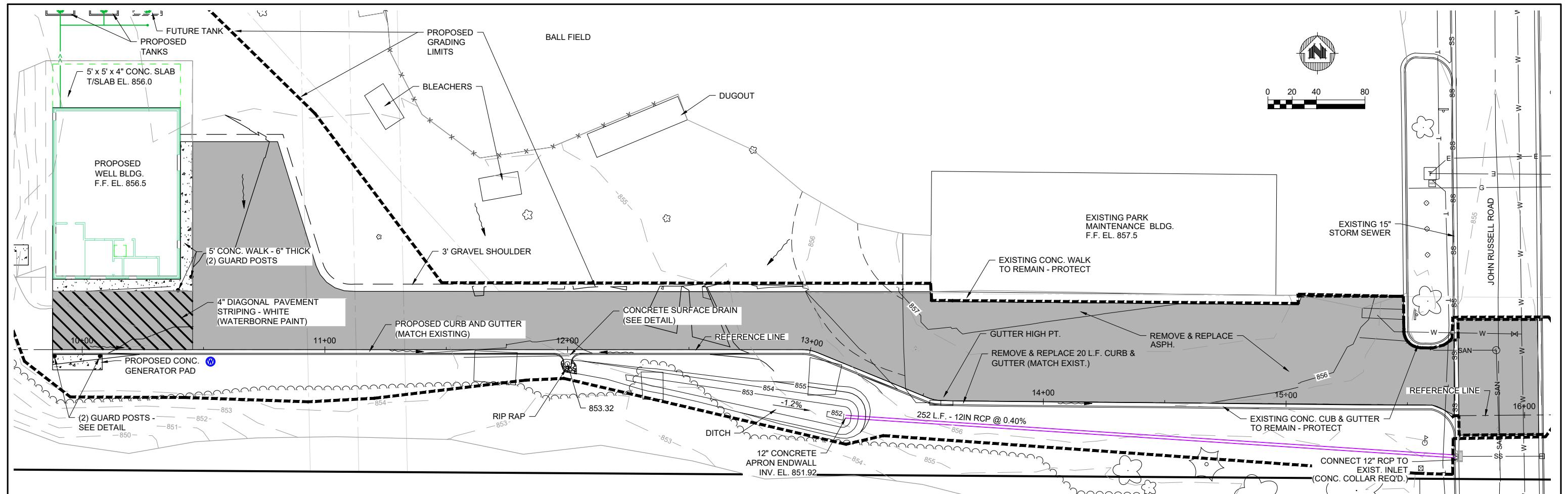
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SITE CIVIL
GRADING PLAN

PROJECT NO.
05323007.1
SHEET
05C104





PROJECT DATE: DEC 23, 2025	DRAWN BY: JM
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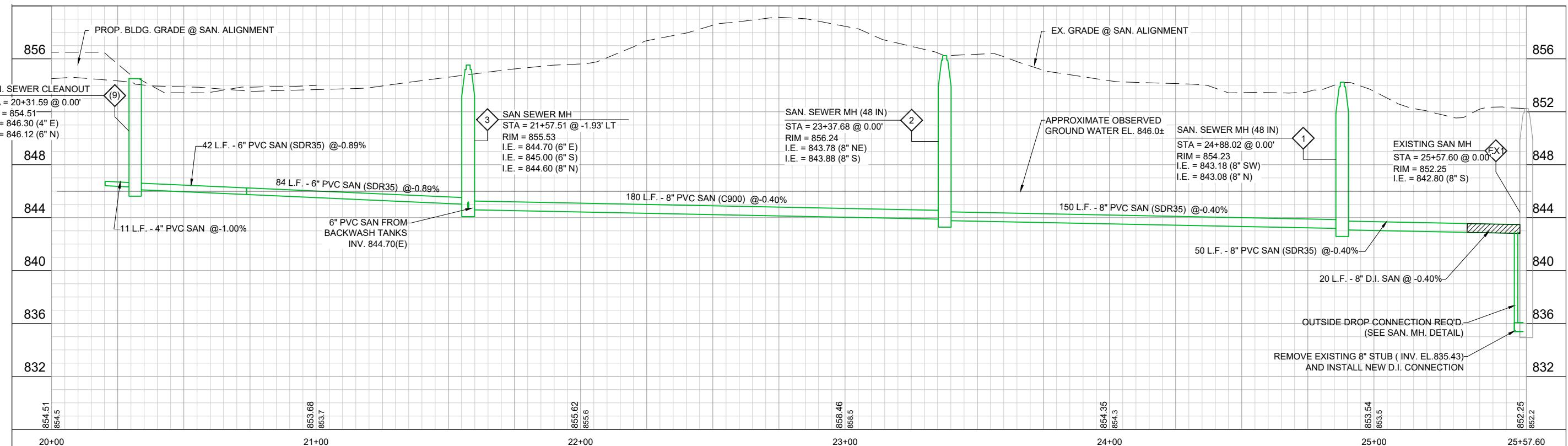
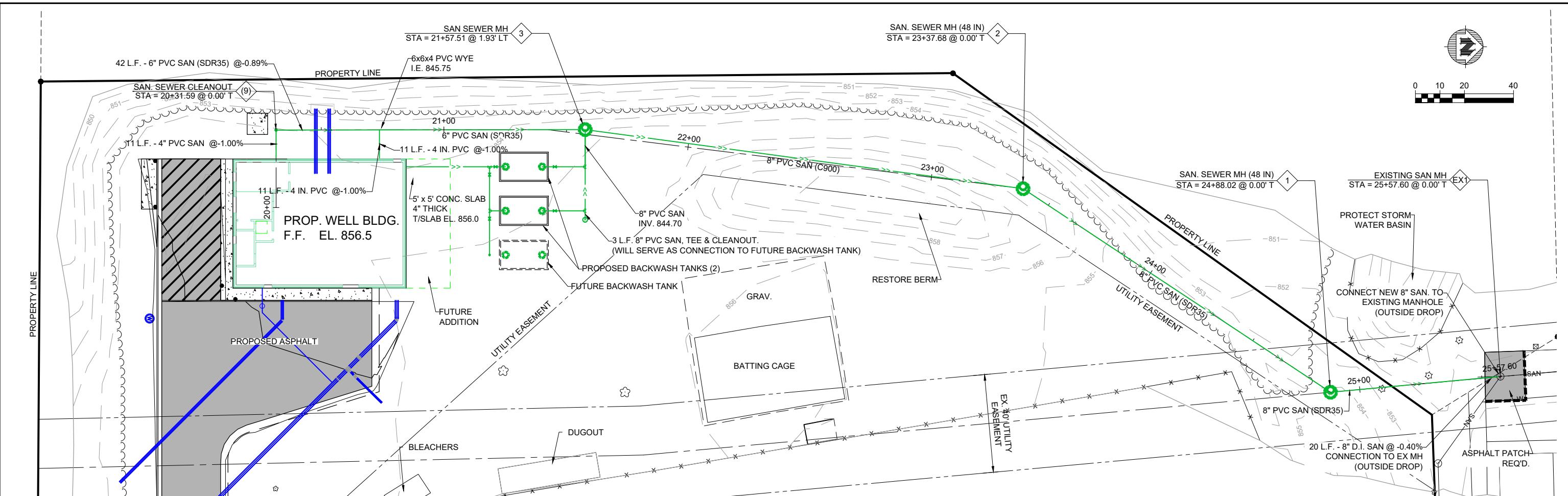


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SITE CIVIL PLAN PROFILE

PROJECT NO.
323007.1
SHEET
05C106



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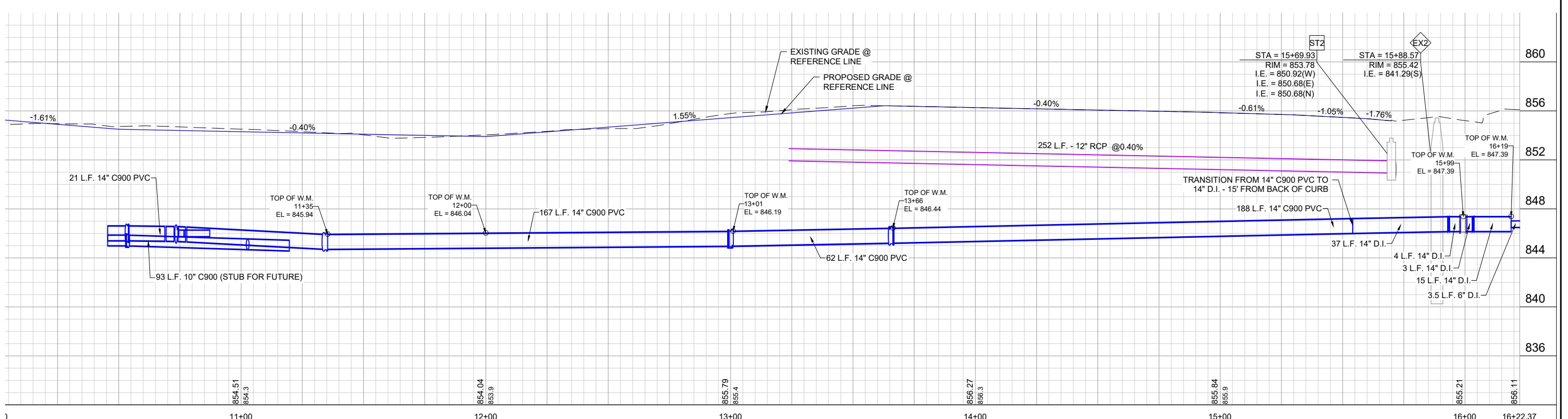
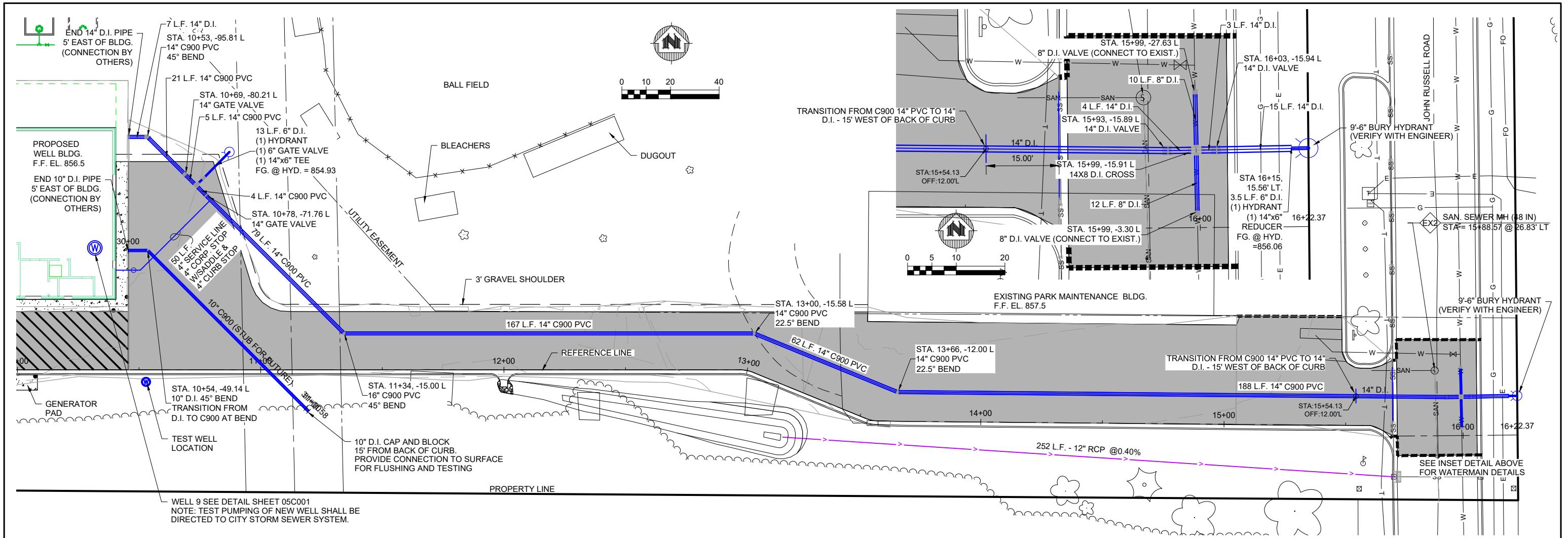


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SITE CIVIL
SANITARY PLAN PROFILE

PROJECT NO.
05323007.1
SHEET
05C107



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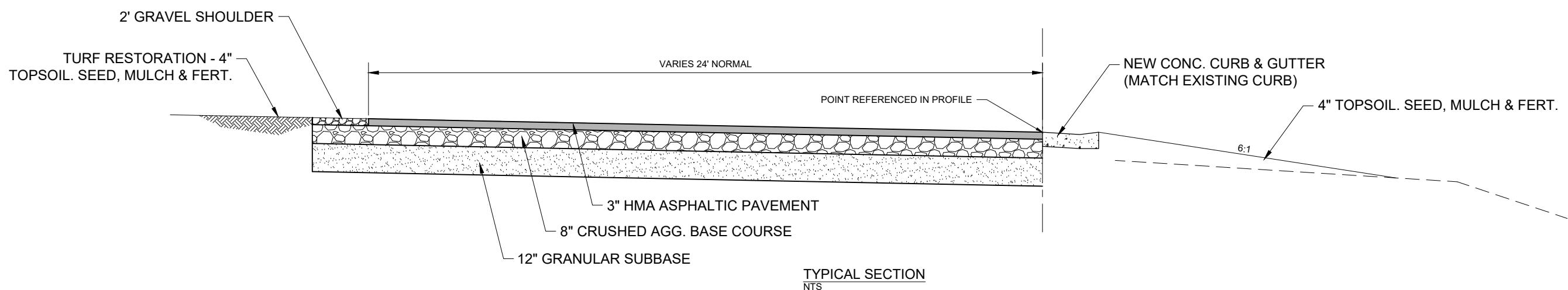
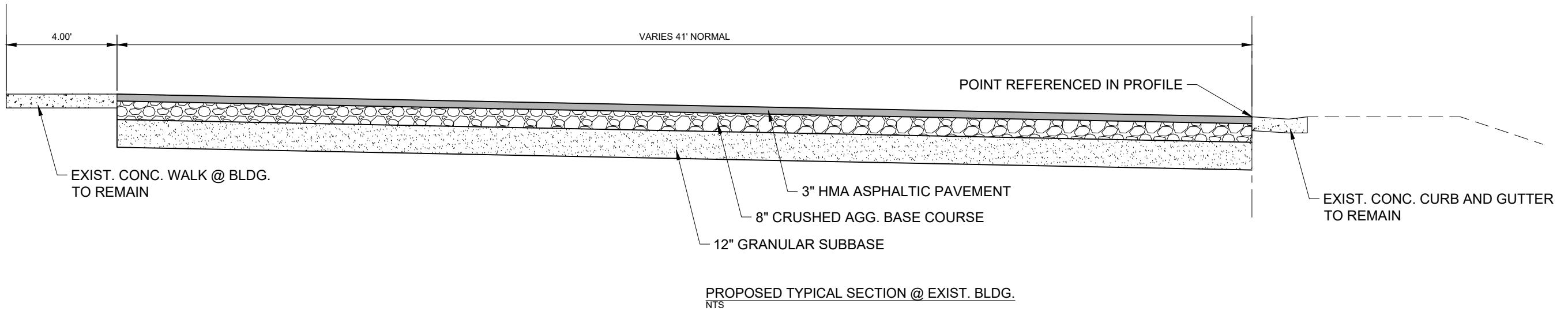
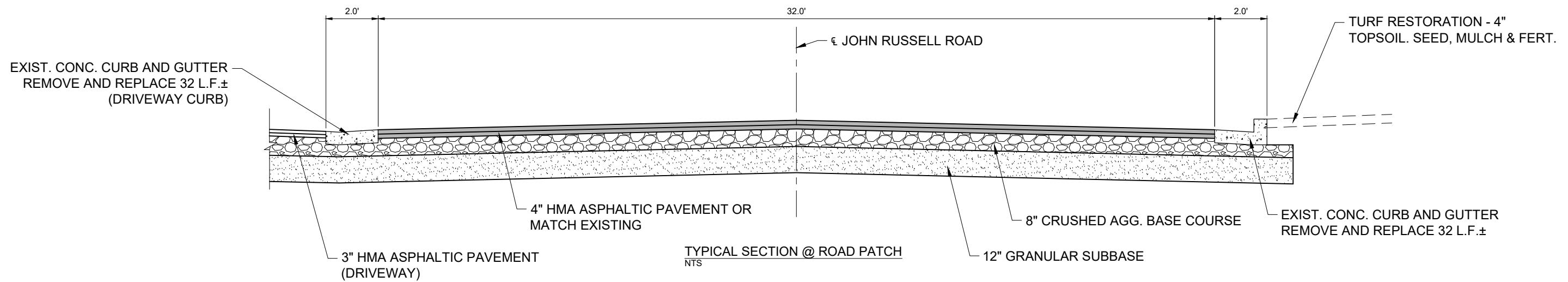
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CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

SITE CIVIL

WATERMAIN PLAN PROFILE

PROJECT NO.
05323007.1

SHEET
05C108



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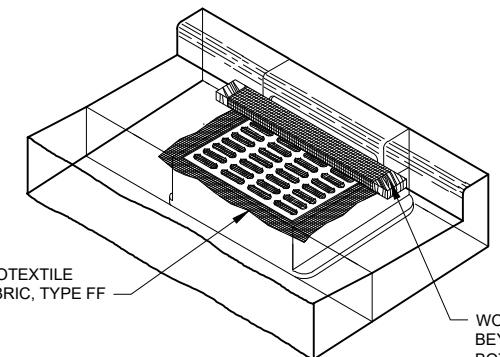


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SITE CIVIL
TYPICAL SECTIONS

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05323007.1
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05C301

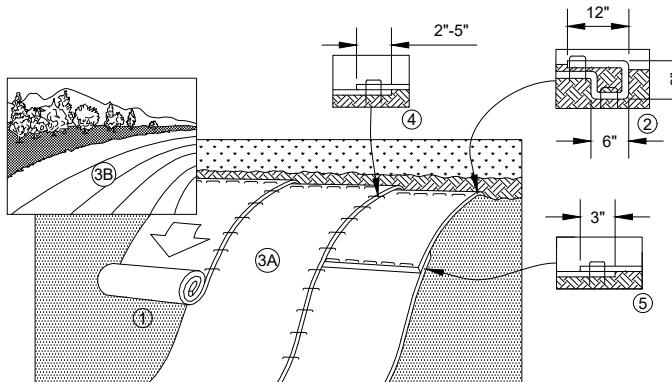


INSTALLATION NOTES:

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

INLET PROTECTION, TYPE C

NO SCALE

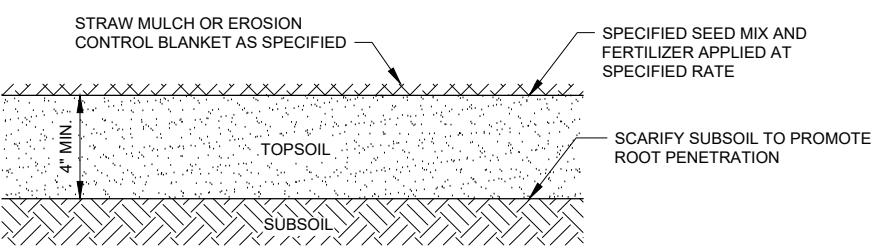


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5 CM-12.5 CM) OVERLAP DEPENDING ON BLANKET TYPE.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:

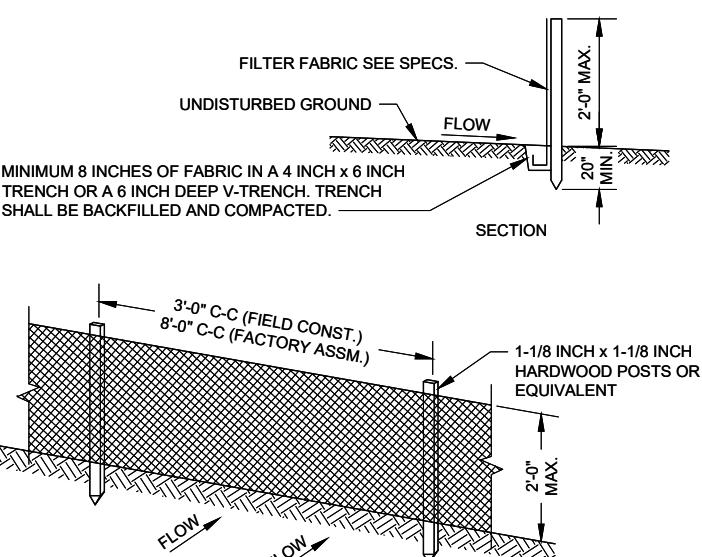
"IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

EROSION CONTROL BLANKET DETAIL
NO SCALE



NOTE: WHERE REQUIRED, PLANT HERBACEOUS PLUGS ACCORDING TO PLAN, OR AS DIRECTED BY ENGINEER.

TOPSOIL AND SEEDING DETAIL
NO SCALE



PERSPECTIVE VIEW

GENERAL NOTES:

1. ENDS OF FENCE SHALL BE TURNED UPSLOPE 1 TO 2 FEET IN ELEVATION TO PREVENT FLANKING.
2. STAPLE FABRIC WITH 1/2 INCH (MINIMUM) STAPLES TO THE UPSLOPE SIDE OF THE POSTS.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.

TYPICAL SILT FENCE INSTALLATION AT SITE PERIMETER DETAIL
NO SCALE

CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS

1.) SECTION NR216.46 OF WISCONSIN STATE ADMINISTRATIVE CODE IDENTIFIES REQUIREMENTS FOR CONSTRUCTION SITE AND POST-CONSTRUCTION EROSION CONTROL. IT IS THE INTENT OF THESE PLANS TO SATISFY THESE REQUIREMENTS. THE METHODS AND STRUCTURES USED TO CONTROL EROSION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL IMPLEMENT AN APPROPRIATE MEANS OF CONTROLLING EROSION DURING SITE OPERATION AND UNTIL THE VEGETATION IS RE-ESTABLISHED. ADJUSTMENTS TO THE CONTROL SYSTEM SHALL BE MADE AS REQUIRED.

2.) ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE WISCONSIN DNR'S CONSERVATION PRACTICE STANDARDS. THESE STANDARDS ARE PERIODICALLY UPDATED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND REFERENCE THE MOST RECENTLY RELEASED STANDARD.

3.) THE INFORMATION IS ONLY ONE PART OF THE OVERALL EROSION CONTROL REQUIREMENTS. ADDITIONAL REQUIREMENTS MAY ALSO BE SHOWN ON THE PLAN SHEETS AND IN THE ACCOMPANYING SPECIFICATIONS.

4.) ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE OWNER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.

5.) THE AREA OF EROSION LAND EXPOSED TO THE ELEMENTS BY GRUBBING, EXCAVATION, TRENCHING, BORROW AND FILL OPERATIONS AT ANY ONE TIME SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE. FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING. ALL DISTURBED AREAS SHALL BE TREATED WITH PERMANENT STABILIZATION MEASURES WITHIN 3 WORKING DAYS OF FINAL GRADING.

6.) ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF THE TIME 0.5 INCHES OF RAIN IS PRODUCED. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS. THIS APPROACH ACKNOWLEDGES THE DIFFICULTY OF WORKING IN WET CONDITIONS AS NECESSARY FOR PREVENTING THE IRRETRIEVABLE "FIRST FLUSH" OF SEDIMENT INTO ADJACENT WATERWAYS, DEGRADING WATER QUALITY AND FISH HABITAT.

7.) ALL EROSION CONTROL DEVICES SHALL BE PROPERLY INSTALLED PRIOR TO ANY SOIL DISTURBANCE. 8.) GRUBBING AND GRADING OPERATIONS SHALL BE PERFORMED IN PROPER SEQUENCE WITH OTHER WORK TO MINIMIZE EROSION.

9.) ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.

10.) WIND EROSION SHALL BE KEPT TO A MINIMUM DURING CONSTRUCTION. WATERING, MULCH, OR A TACKING AGENT MAY NEED TO BE UTILIZED TO PROTECT NEARBY RESIDENCES AND WATER RESOURCES.

11.) CHANNELIZED RUNOFF FROM ADJACENT AREAS PASSING THROUGH THE SITE SHALL BE DIVERTED AROUND DISTURBED AREAS, IF PRACTICAL.

12.) THE CONTRACTOR SHALL TAKE ALL POSSIBLE PRECAUTIONS TO PREVENT SOILS FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEEPED AND / OR SCRAPED (NOT FLUSHED) PERIODICALLY TO REMOVE SOIL, DIRT AND / OR DUST.

13.) EROSION CONTROLS SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF TEMPORARY STOCKPILES. ANY SOIL STOCKPILE THAT REMAINS FOR MORE THAN 7 DAYS SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING. ALL STOCK PILES SHALL BE PLACED AT LEAST 75 FEET FROM STREAMS OR WETLANDS.

14.) EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.):

- a. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
- b. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
- c. DISCHARGE OF TRENCH WATER OR DEWATERING EFFLUENT MUST BE PROPERLY TREATED TO REMOVE SEDIMENT IN ACCORDANCE WITH THE WDNR CONSERVATION PRACTICE STANDARD 1061 - DEWATERING OR A SUBSEQUENT WDNR DEWATERING STANDARD PRIOR TO DISCHARGE INTO A STORM SEWER, DITCH, DRAINAGEWAY, OR WETLAND OR LAKE.

15.) ALL DRAINAGE CULVERTS, STORM DRAIN INLETS, MANHOLES, OR ANY OTHER EXISTING STRUCTURES WHICH COULD BE DAMAGED BY SEDIMENTATION SHALL BE PROTECTED ACCORDING TO THE VARIOUS METHODS PROVIDED IN THE PRINTED CONSERVATION PRACTICE STANDARDS.

16.) ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.

17.) THE FIRST SIX WEEKS AFTER INITIAL STABILIZATION (E.G. PLACEMENT OF SEED AND MULCH, EROSION MAT, SOD) A DISTURBED AREA SHALL INCLUDE WATERING PROVISIONS OF ALL NEWLY SEDED AND MULCHED AREAS WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.

18.) WHEN THE DISTURBED AREA HAS BEEN STABILIZED BY PERMANENT VEGETATION OR OTHER MEANS, TEMPORARY BMP'S SUCH AS SILT FENCES, STRAW BALES, AND SEDIMENT TRAPS SHALL BE REMOVED AND THESE AREAS STABILIZED.

19.) ALL TEMPORARY BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED.

20.) ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH SEED AND MULCH UNLESS OTHERWISE SPECIFIED. A MINIMUM OF 4 TO 6 INCHES OF TOPSOIL SHALL BE APPLIED TO ALL AREAS TO BE SEDED OR SODDED.

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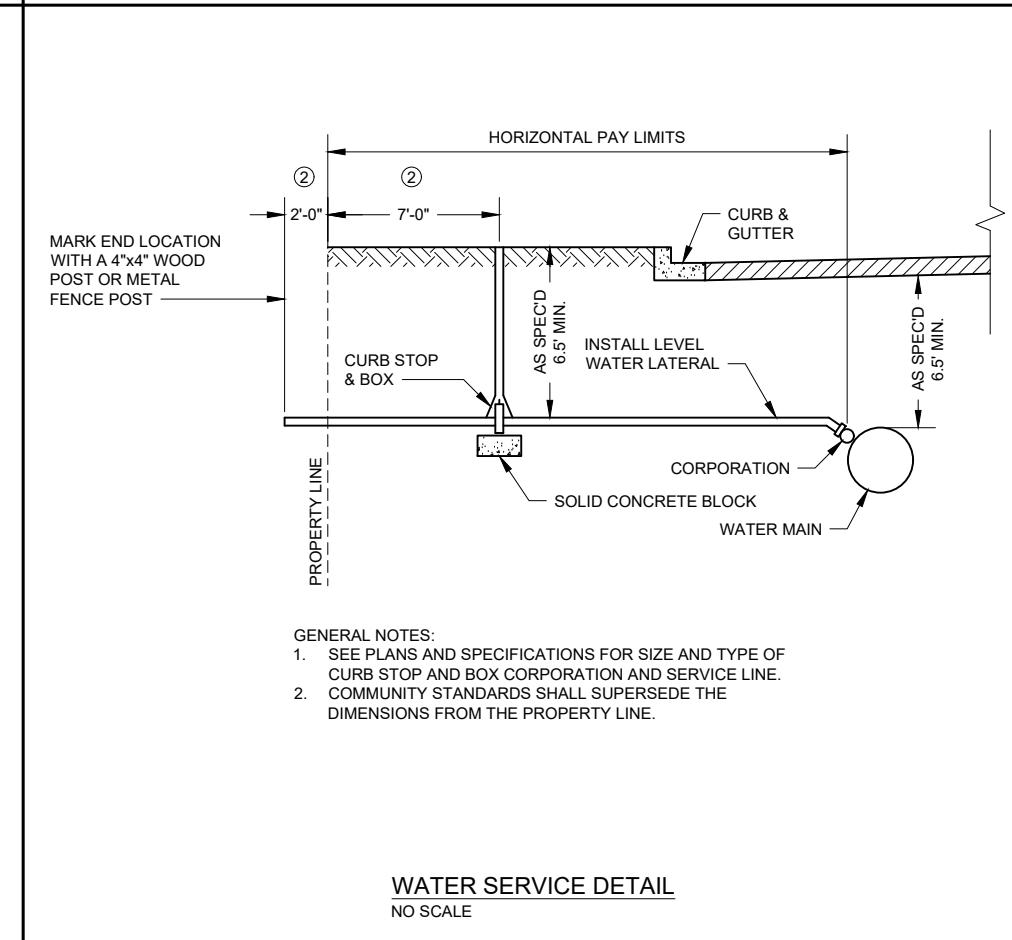
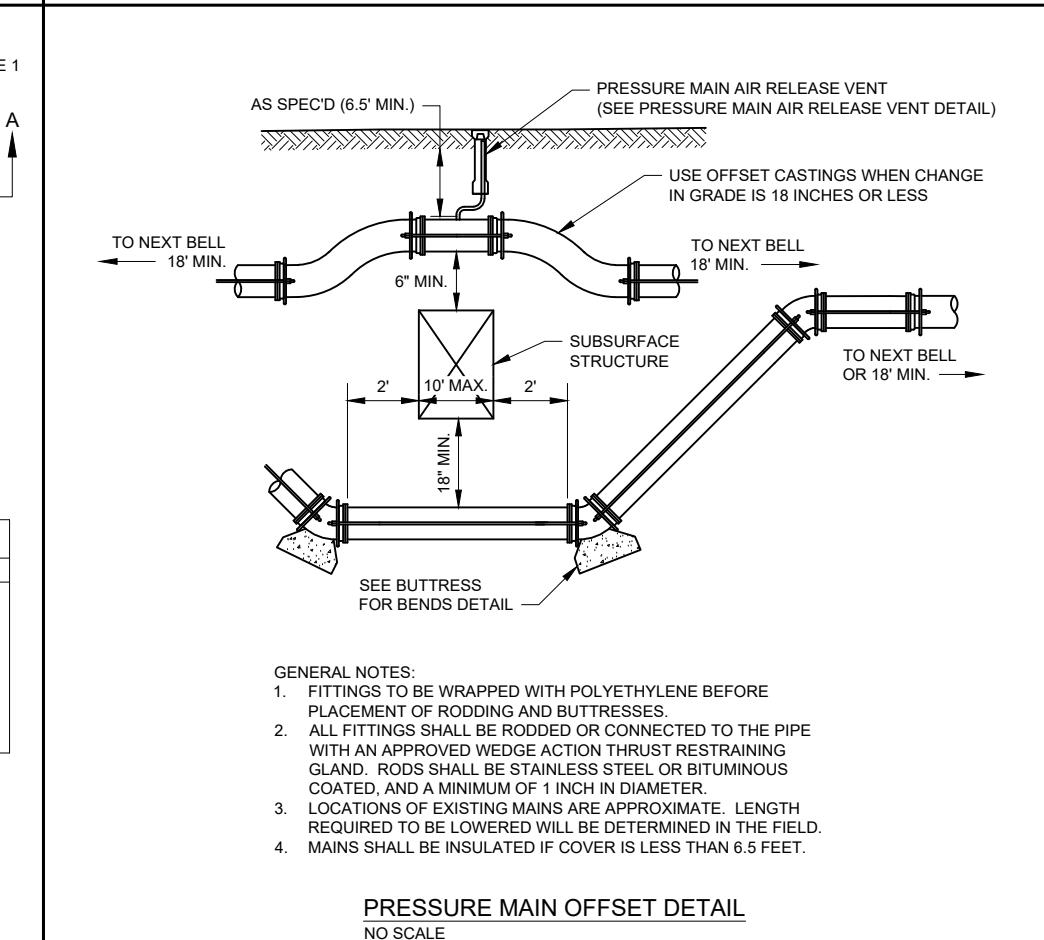
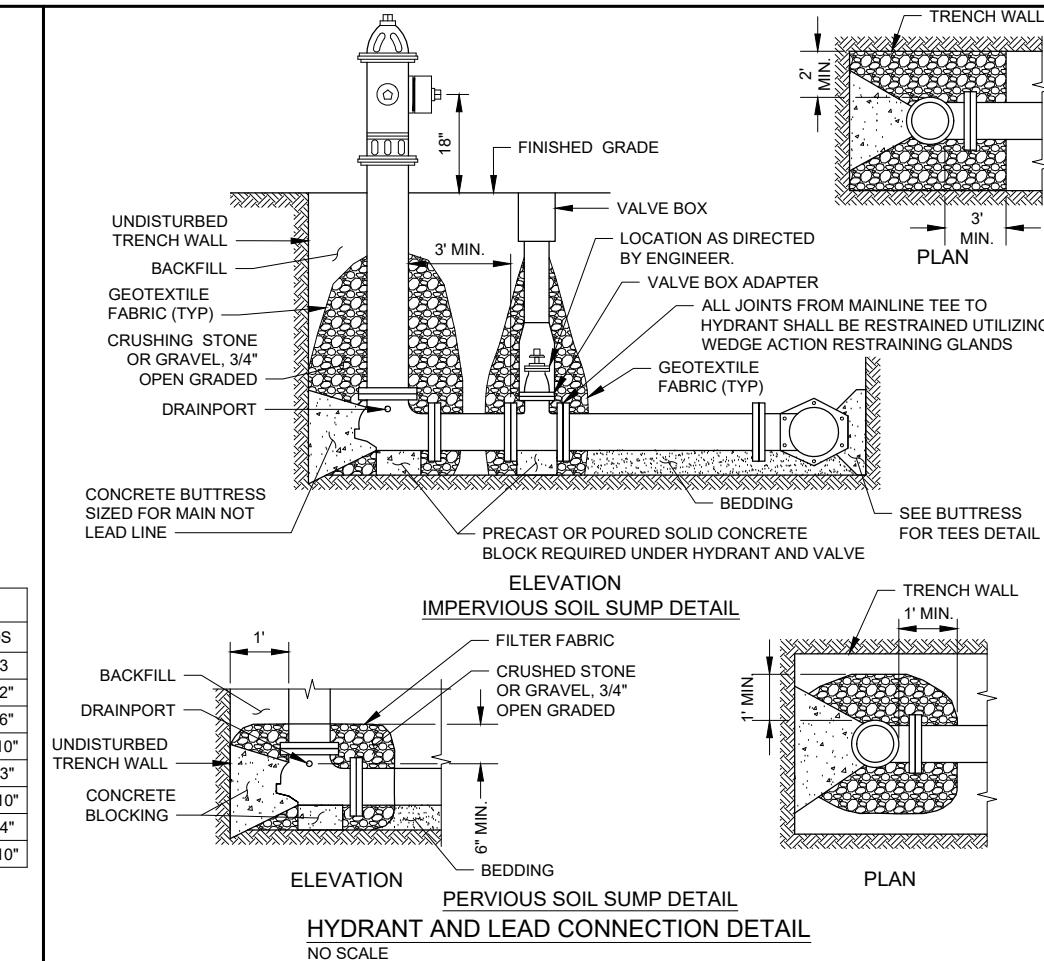
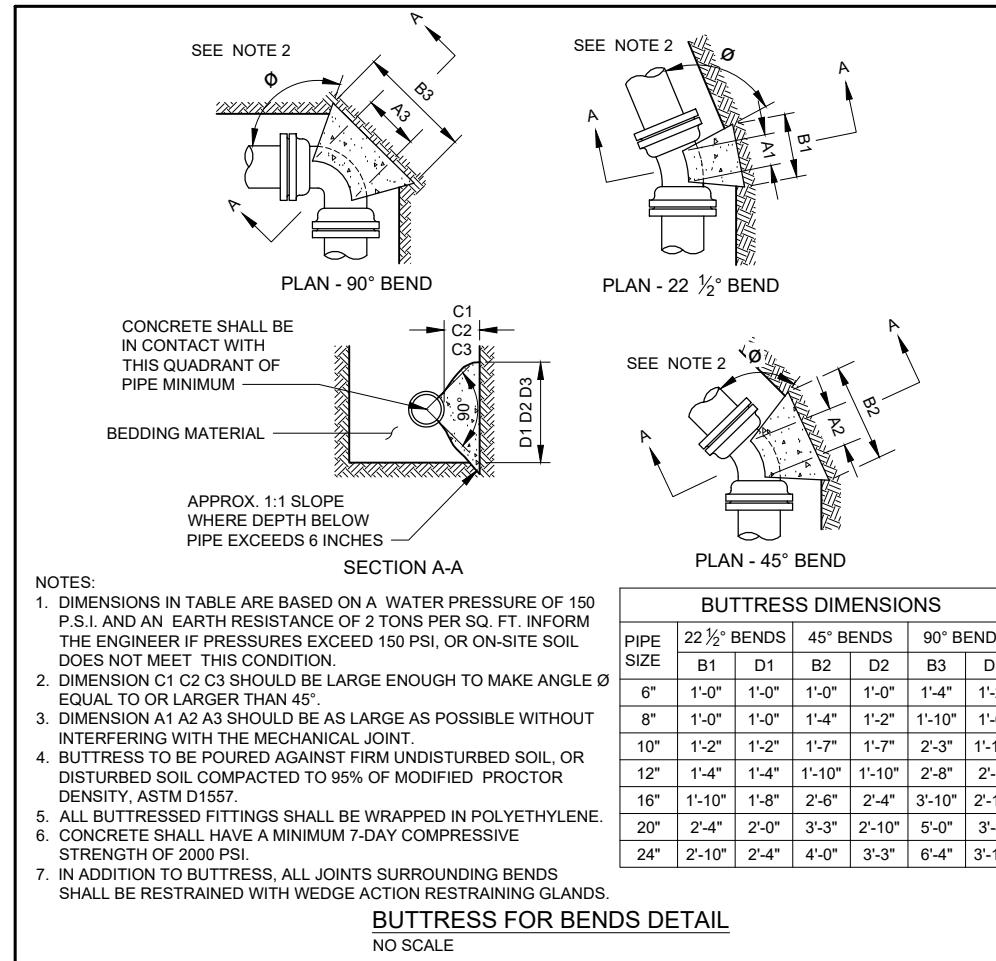


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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

SITE CIVIL
EROSION CONTROL DETAILS

PROJECT NO	05323007.1
SHEET	05C501



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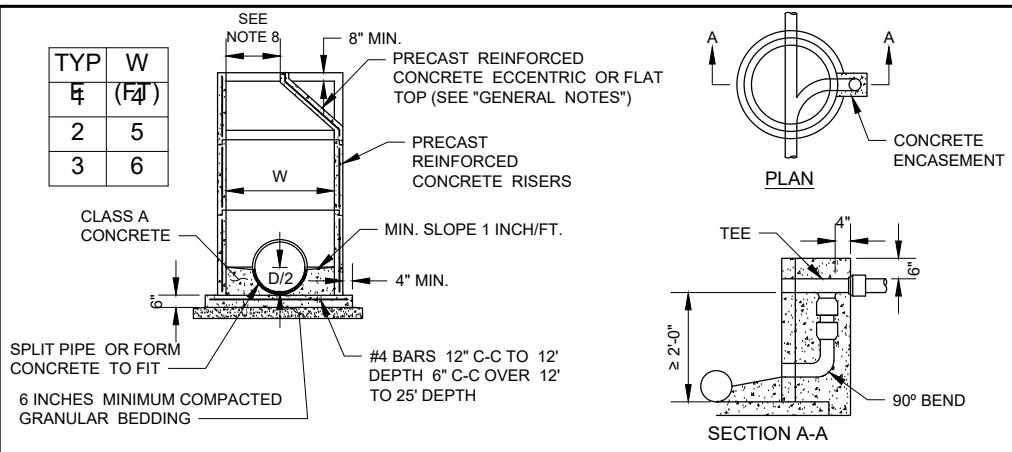


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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

SITE CIVIL
WATERMAIN DETAILS

PROJECT NO.
05323007.1
SHEET
05C502



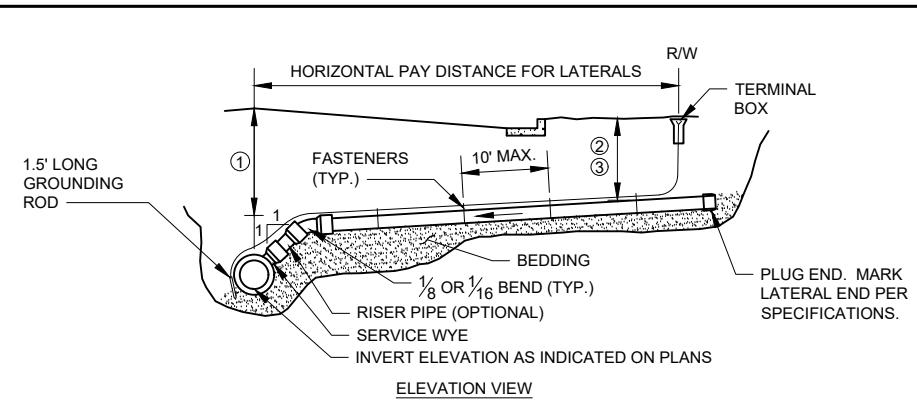
DROP ASSEMBLY DETAIL

GENERAL NOTES:

- DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING AND THE APPLICABLE SPECIAL CONDITIONS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.
- DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.
- PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.
- ECCENTRIC CONE TOPS SHALL BE USED ON ALL STRUCTURES 5 FEET OR GREATER IN DEPTH, AND FLAT TOPS SHALL BE USED ONLY ON STRUCTURES LESS THAN 5 FEET IN DEPTH, UNLESS DIRECTED BY THE ENGINEER.
- PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.
- ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.
- DROP CONNECTIONS SHALL BE USED WHEN THE PIPE INVERT IS MORE THAN 2 FEET ABOVE THE MANHOLE INVERT. PRECAST STRUCTURE MANWAY CLEAR OPENING SHALL MATCH CASTING - REFER TO STANDARD SPECIFICATION
- DIVISION 33 AND THE APPLICABLE SPECIAL CONDITIONS.
 - OPENING SHALL BE 24" FOR R-1550 CASTINGS
 - OPENING SHALL BE 27" FOR R-1642 CASTINGS
- DROP CONNECTION AND ASSEMBLY SHALL BE CONSTRUCTED WITH DUCTILE IRON PIPE.

PRECAST REINFORCED CONCRETE MANHOLE DETAIL

NO SCALE



NOTES FOR LATERAL INSTALLATION:

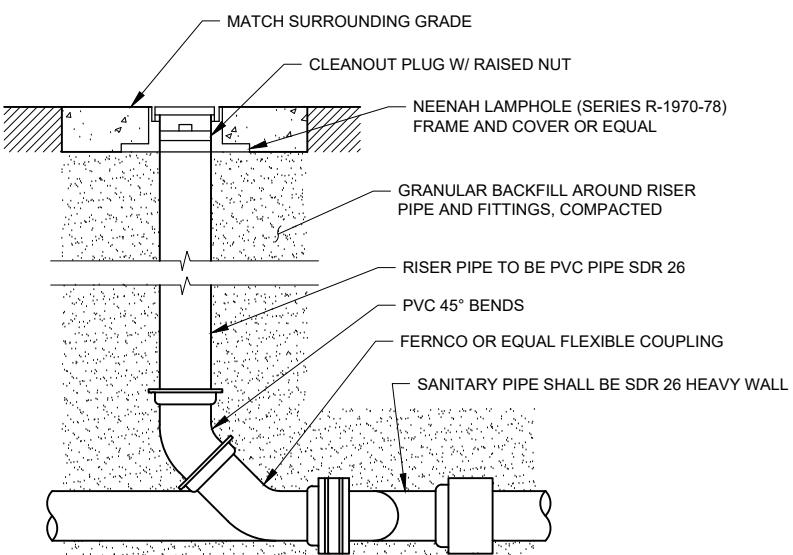
- MINIMUM DEPTH OF COVER UNDER ROADWAY = 7 FEET.
- MINIMUM DEPTH OF COVER UNDER GRASS AREAS = 5 1/2 FEET.
- MINIMUM DEPTH OF COVER UNDER GRASS AREAS WITH FROST PROTECTION = 3 FEET 6 INCHES.
- LATERAL SLOPES SHALL BE 1/8 INCH PER FOOT MINIMUM AND 1/2 INCH PER FOOT MAXIMUM.

NOTES FOR TRACER WIRE INSTALLATION:

- THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE.
- NO. 12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED WITH THE NON-CONDUCTIVE SERVICE PIPE. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER MAIN OR AS DETERMINED BY THE ENGINEER OR OWNER. TRACER WIRE INSTALLATION REQUIRES ACCESS POINTS AT LEAST EVERY 300 FEET.
- TRACER WIRE SHALL BE RESTRAINED BY CABLE-TIES, TAPE, OR BY NON-CORROSIVE FASTENER APPROVED BY THE OWNER, INSTALLED EVERY 10 FEET ALONG SERVICE. DO NOT WRAP TRACER WIRE AROUND THE PIPE.
- TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATED IN A FLUSH MOUNTED TERMINAL BOX WITH A CAST IRON LOCKABLE TOP. SPLICES IN TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT OR COMPRESSION-TYPE CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION. TERMINAL BOX SHALL BE VALVCO, OR APPROVED EQUAL.

SANITARY SEWER LATERAL DETAIL

NO SCALE



SANITARY SEWER CLEANOUT

NO SCALE

PROJECT DATE: DEC 23, 2025.	DRAWN BY: JM	NO.	DATE	REVISION	BY



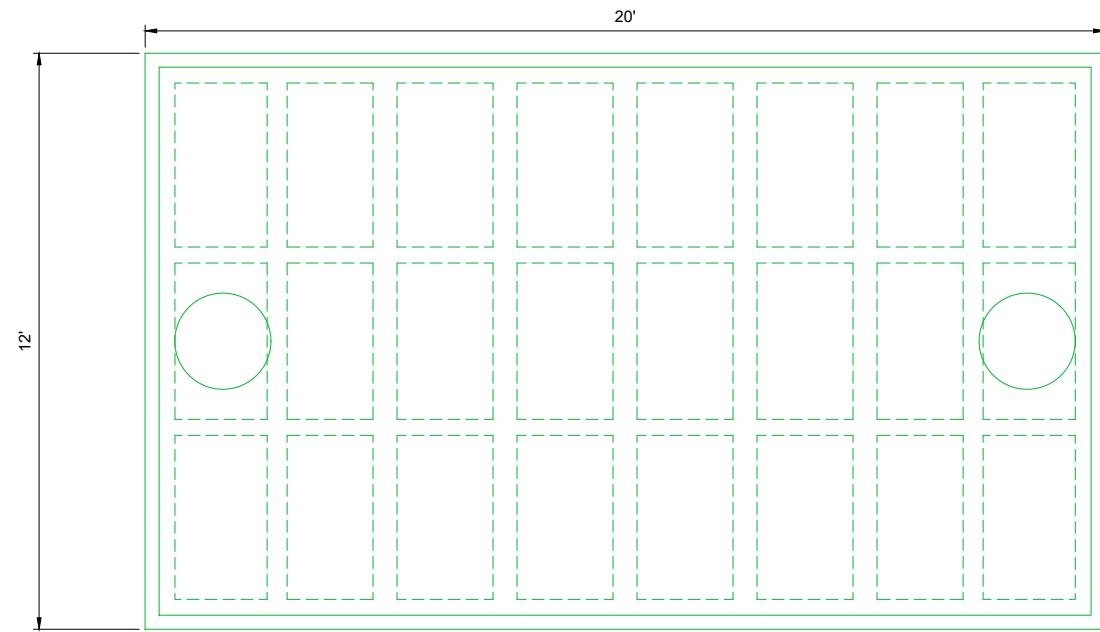
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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

SITE CIVIL
SANITARY SEWER DETAILS

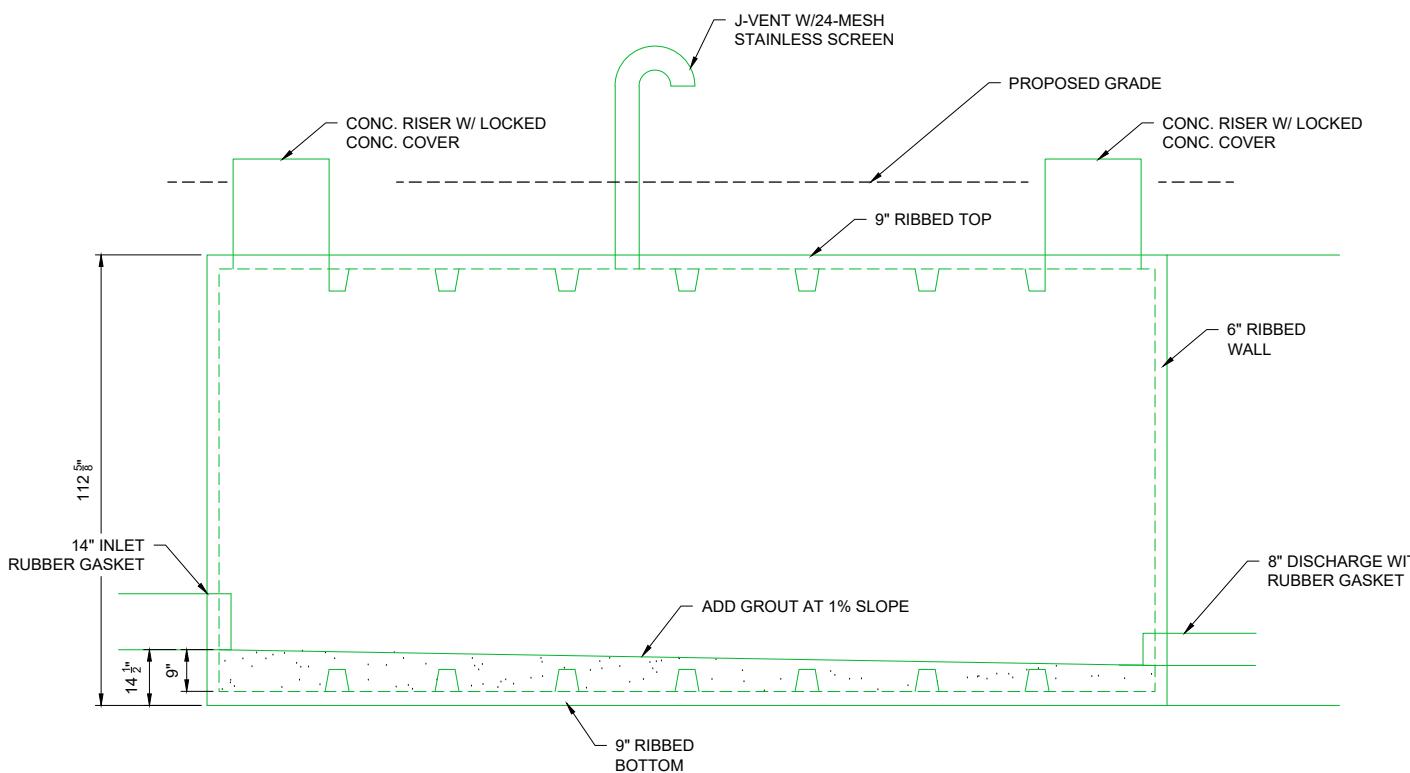
PROJECT NO. 05323007.1
SHEET 05C503

12,000 GALLON HOLDING TANKS (2)



PLAN VIEW

NO SCALE



SECTION VIEW

NO SCALE

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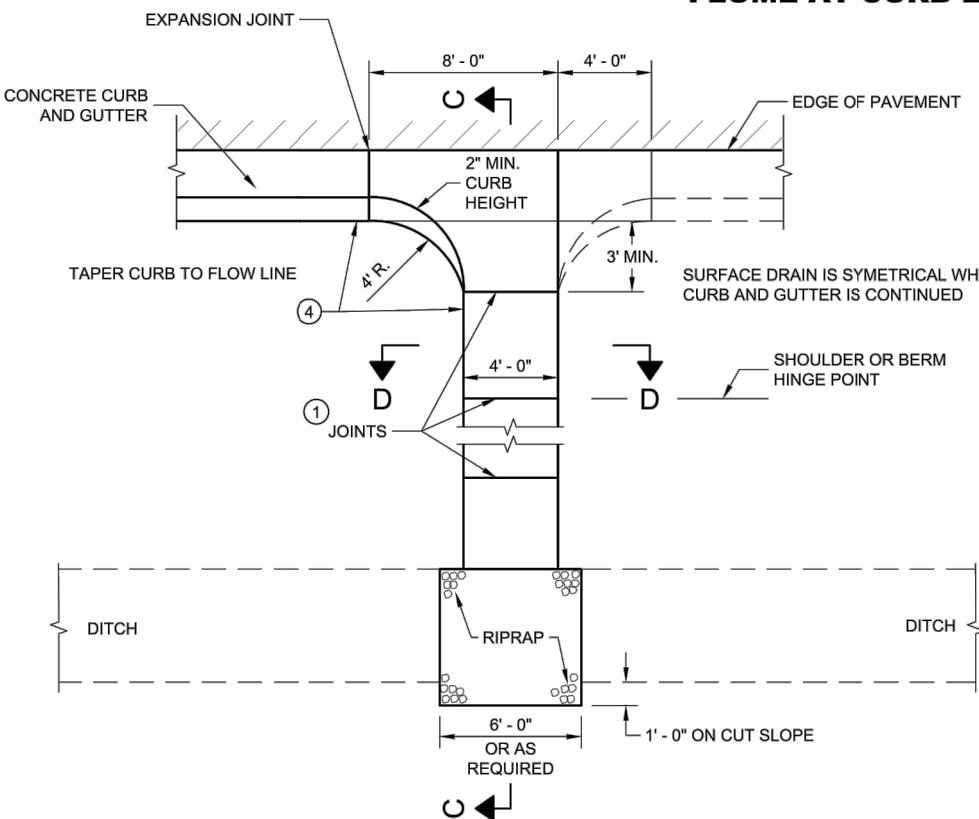
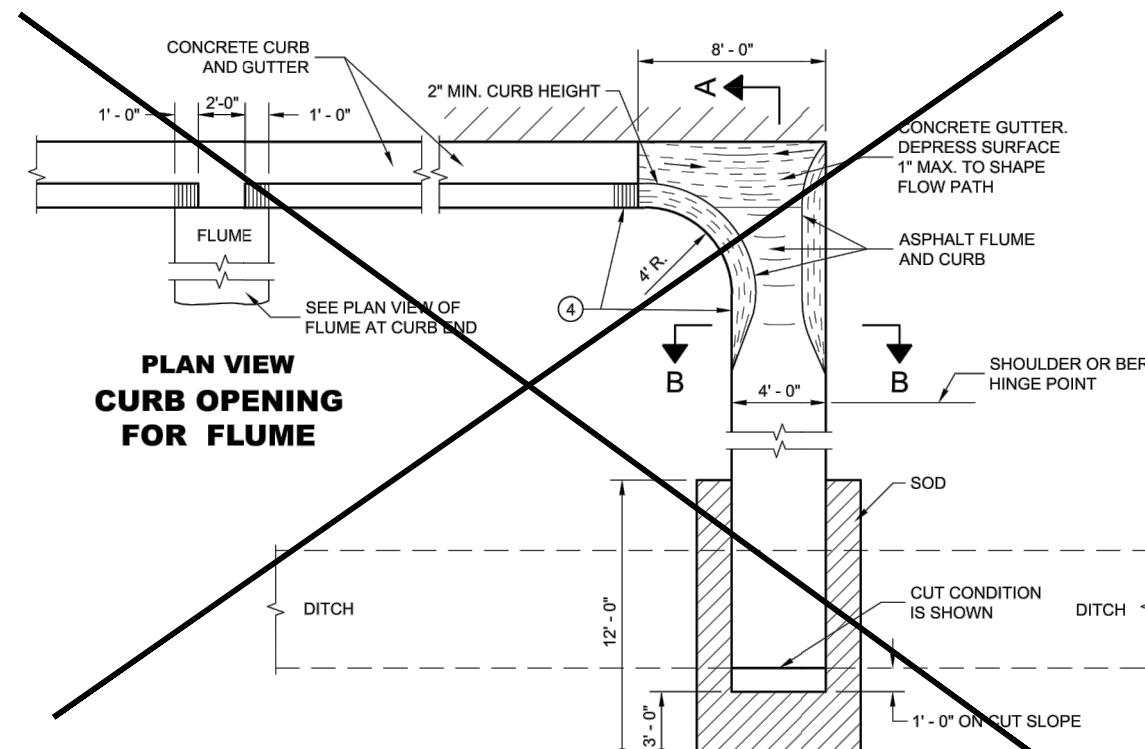
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CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

SITE CIVIL
BACKWASH TANK DETAILS

PROJECT NO. 05323007.1
SHEET 05C504

NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME

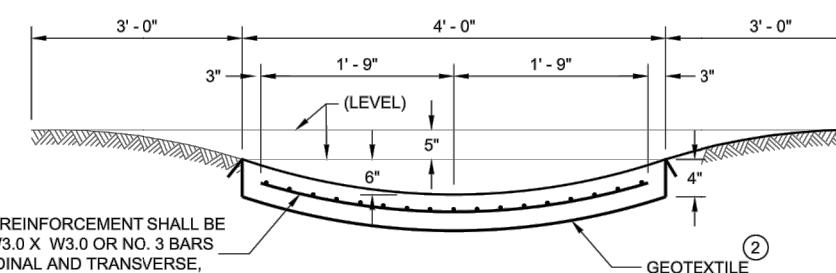
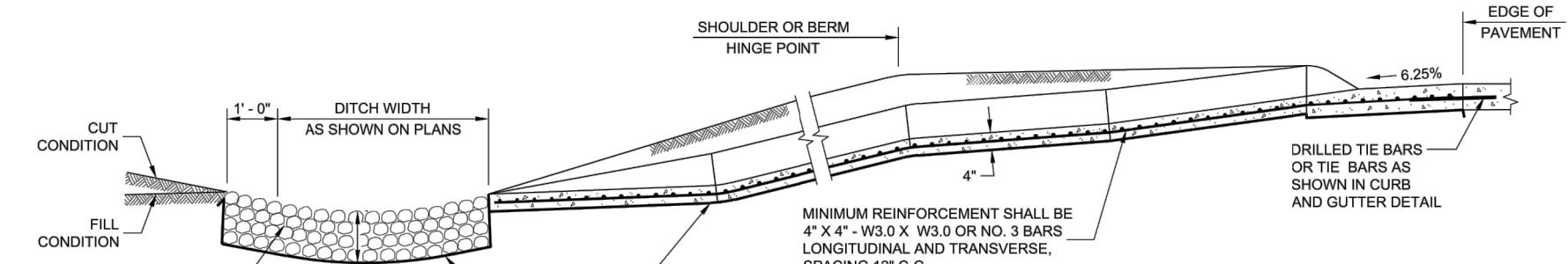
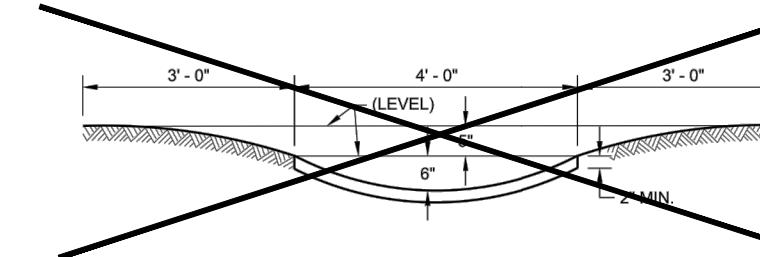
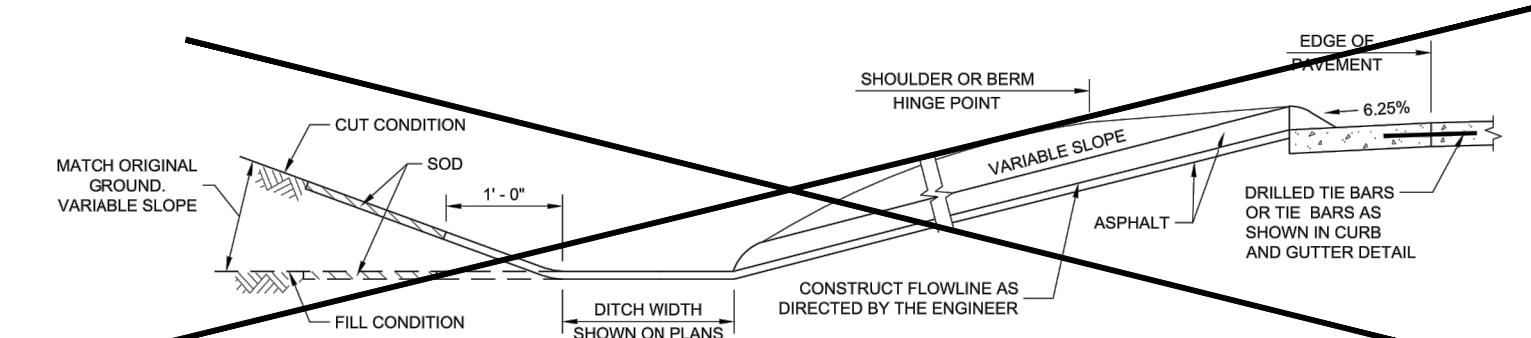


GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

- ① JOINTS SHALL BE $\frac{1}{8}$ " TO $\frac{1}{4}$ " WIDE BY $\frac{1}{2}$ " DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
- ② GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
- ③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
- ④ ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.



CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA

SITE CIVIL

CONCRETE SURFACE DRAIN DETAIL

SDD 08D04 - 07

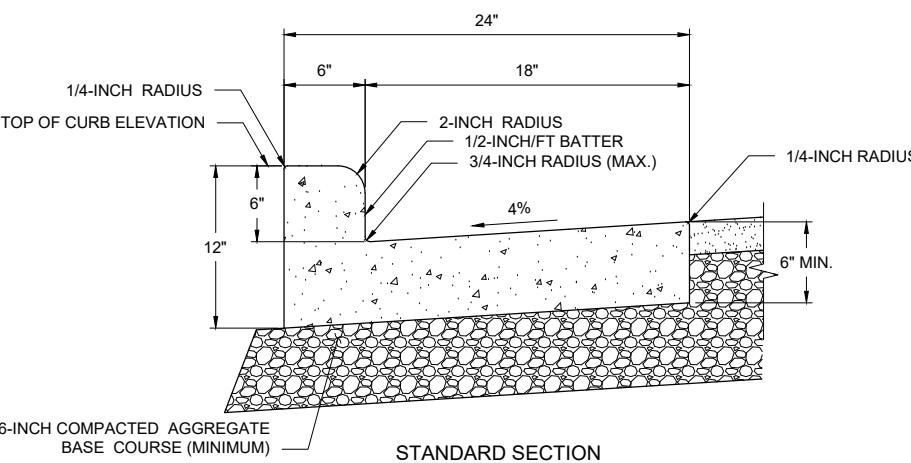
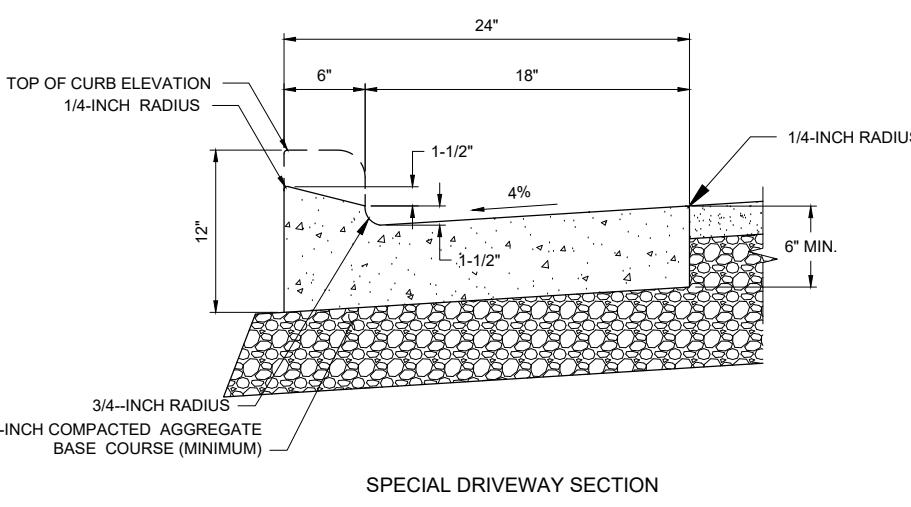
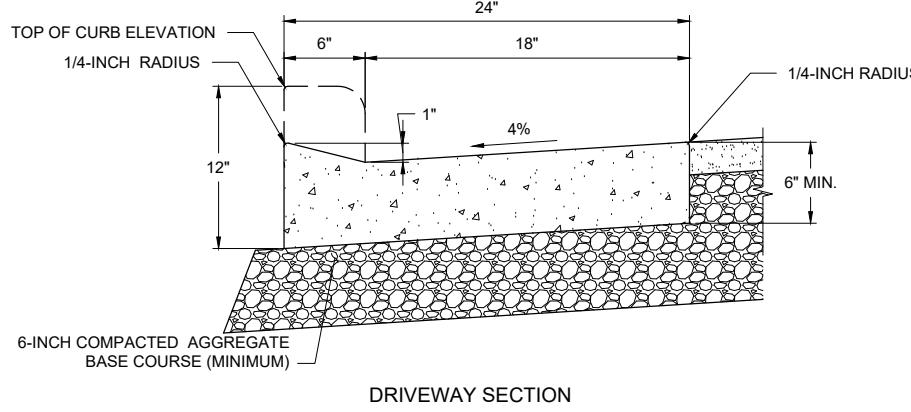
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05323007.1
SHEET
05C505

PROJECT DATE: DEC 23, 2025	DRAWN BY: JM	NO.	DATE	REVISION	BY
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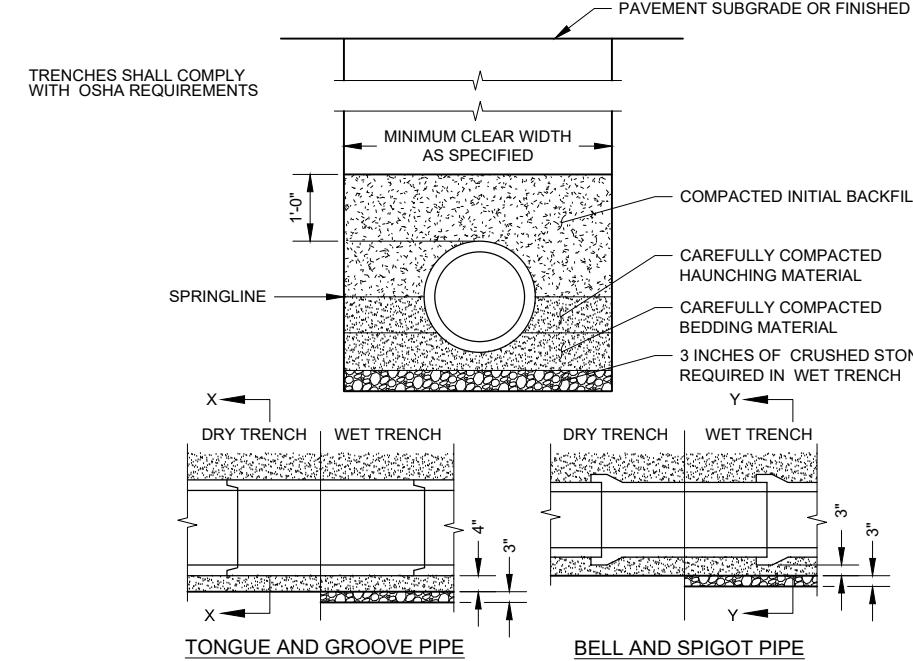
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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN



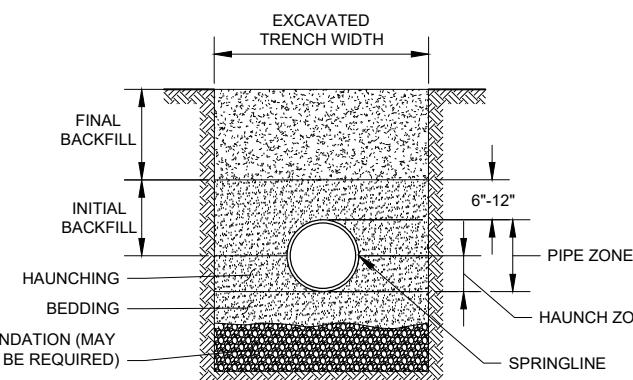
TYPE D CURB AND GUTTER DETAIL

NO SCALE



CLASS "B" EMBEDMENT FOR RIGID PIPE DETAIL

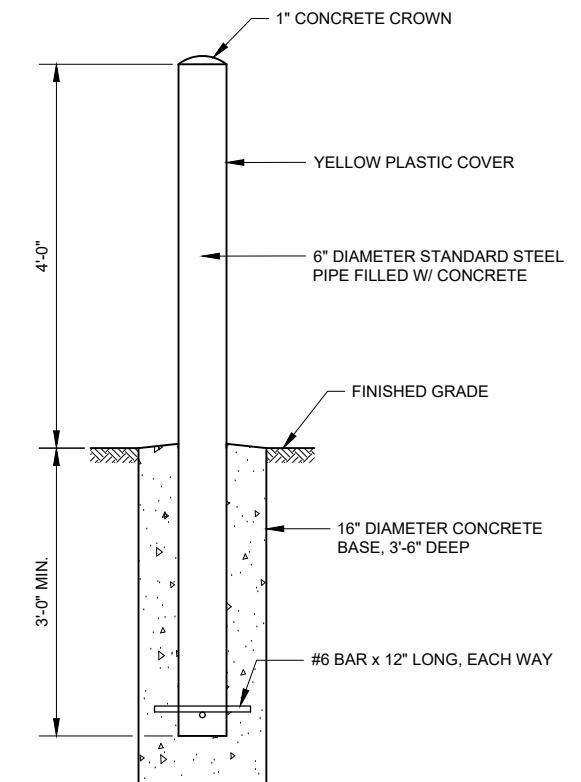
NO SCALE



1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO ASTM D2321.
2. CLASS II EMBEDMENT MATERIAL SHALL BE CLEAN, COARSE-GRAINED SOILS WITH LITTLE TO NO FINES. NO PARTICLES LARGER THAN 1 1/2-INCHES SHALL BE USED IN THE PIPE EMBEDMENT.
3. WHERE HYDRAULIC GRADIENT EXISTS USE A WELL-GRADED MIXTURE TO MINIMIZE MIGRATION OF FINES FROM ADJACENT SOIL.
4. CLASS II MATERIAL IS SUITABLE AS A FOUNDATION AND FOR REPLACING OVER-EXCAVATED AND UNSTABLE TRENCH BOTTOM. INSTALL AND COMPACT IN 6-INCH MAXIMUM LAYERS.
5. INSTALL AND COMPACT BEDDING IN 6-INCH MAXIMUM LAYERS. LEVEL FINAL GRADE BY HAND. MINIMUM DEPTH 4 INCH (6 INCH IN ROCK CUTS.)
6. INSTALL AND COMPACT HAUNCHING IN 6-INCH MAXIMUM LAYERS. WORK IN AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT.
7. INSTALL AND COMPACT INITIAL BACKFILL TO A MINIMUM OF 6 INCH ABOVE PIPE CROWN.
8. EMBEDMENT COMPACTION:
MINIMUM DENSITY 85% STANDARD PROCTOR. USE HAND TAMPERS OR VIBRATORY COMPACTORS.
10. EMBEDMENT INCLUDES BEDDING, HAUNCHING, AND INITIAL BACKFILL.

CLASS II - FLEXIBLE PIPE EMBEDMENT DETAIL

NO SCALE



DETAIL - GUARD POST
NO SCALE

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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

SITE CIVIL
MISCELLANEOUS DETAILS

PROJECT NO 05323007.1
SHEET 05C506

GENERAL NOTES

- A. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ENGINEER BEFORE CONTINUING WITH CONSTRUCTION.
- B. 120V HOMERUN WIRING SHALL BE MINIMUM OF (2) #12 & #12G IN 3/4" C.U. UNLESS OTHERWISE NOTED. SIZE FOR VOLTAGE DROP.
- C. SEE ONE-LINE DIAGRAMS, PANEL SCHEDULES, AND FIELD DEVICES WIRING SCHEDULES FOR WIRING OF ALL PROCESS AND INSTRUMENTATION EQUIPMENT. INSTALL FIELD INSTRUMENTS PER DETAIL REFERENCED IN FIELD DEVICE WIRING SCHEDULES.
- D. UNDERGROUND CONDUIT ROUTING IS DIAGRAMMATIC IN NATURE AND IS NOT INTENDED TO DICTATE EXACT ROUTING. CONTRACTOR IS TO DETERMINE BEST ROUTING BASED ON OTHER UTILITIES AND FIELD CONDITIONS.
- E. DIRECT BURIED CONDUITS SHALL BE INSTALLED PER DETAIL 2605-310. PROVIDE SPACERS TO PHYSICALLY SEPARATE LOW VOLTAGE AND CONTROL CONDUITS FROM POWER CONDUITS. INSTALL PULL CORD IN ALL EMPTY CONDUITS, UNLESS SHOWN OTHERWISE, ALL CONDUITS SHALL BE BURIED 24" MINIMUM BELOW FINISHED GRADE.
- F. REFER TO SECTION 26 05 00 FOR CONDUIT, BOX, AND HARDWARE USAGE REQUIREMENTS FOR THE ENVIRONMENT CLASSIFICATION SCHEDULED FOR EACH SPACE. REFER TO SPECIFICATIONS REGARDING CLASSIFICATIONS FOR EXTERIOR AND ANY UNLISTED SPACES.

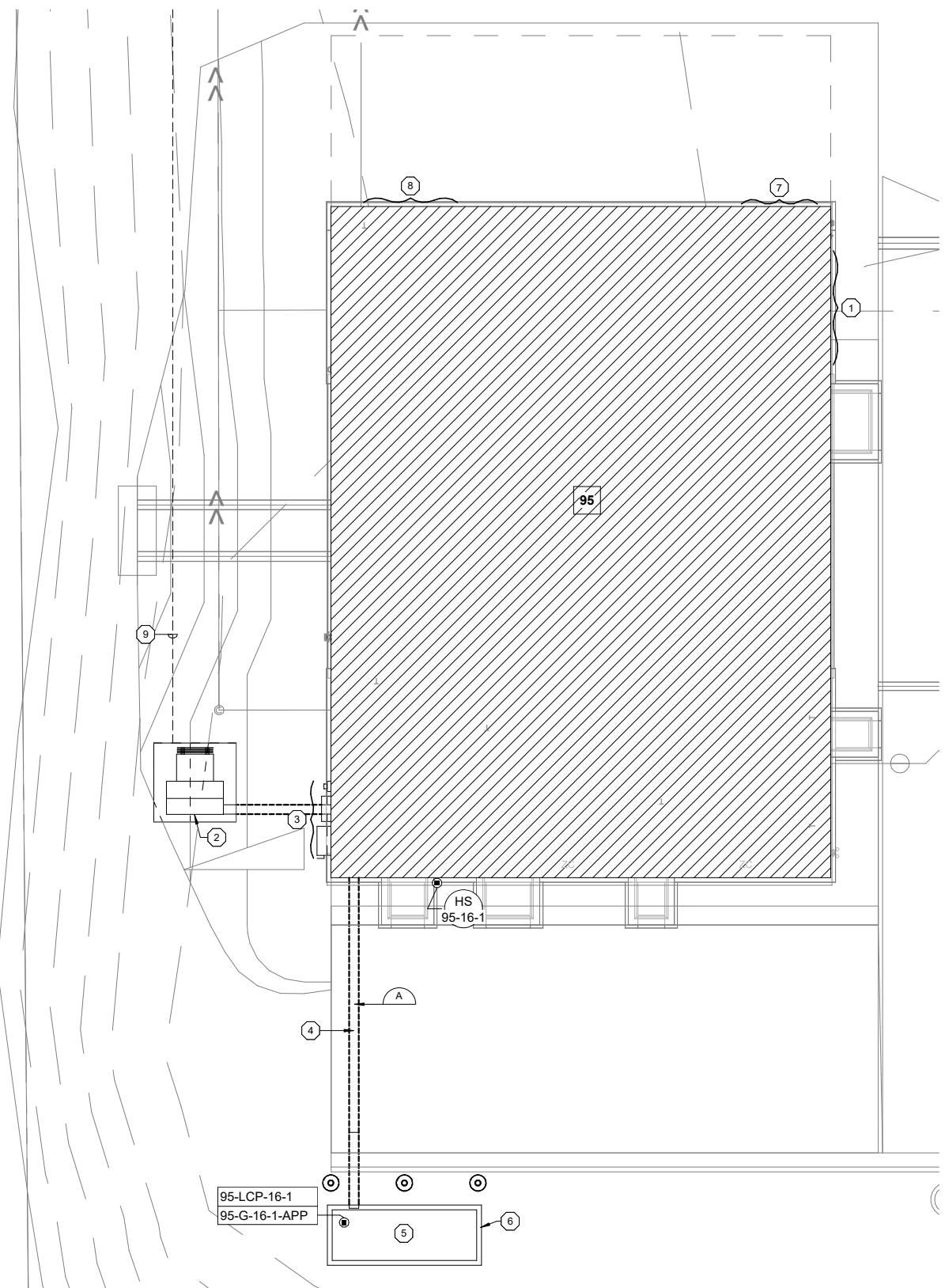
1. WELL #9 OUTDOORS: NEW CONSTRUCTION - WET

KEY NOTES

- 1 12'-0" AREA OF BREAKOUT WALL, REFER TO ARCHITECTURAL DRAWINGS. NO CONDUIT MAY BE INSTALLED WITHIN THE BREAKOUT AREA OR WITHIN 6-INCHES OF EDGE.
- 2 APPROXIMATE LOCATION OF PAD-MOUNTED UTILITY TRANSFORMER. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE Poured-in-Place CONCRETE PAD PER "XCEL ENERGY STANDARD FOR ELECTRICAL INSTALLATION AND USE". UTILITY PAD MOUNTED TRANSFORMER PROVIDED, INSTALLED, AND TERMINATED BY UTILITY.
- 3 REFER TO DRAWING 95E103 FOR WORK IN THIS AREA. FIELD CONFIRM ALL DIMENSIONS AND ADJUST THE WORK AS NECESSARY TO ACCOMODATE CONDITIONS.
- 4 PROVIDE DIRECT BURIED CONDUIT AS SCHEDULED. REFER TO SECTION 26 05 00 FOR ADDITIONAL REQUIREMENTS. CONDUIT SIZES ARE MINIMUM REQUIRED BASED ON DESIGN CIRCUITS. PROVIDE NUMBER AND SIZE OF CONDUITS AS REQUIRED FOR ACTUAL CIRCUITS.
- 5 DIESEL-FUELED STANDBY GENERATOR SET IN SOUND ENCLOSURE. SEE OVERALL PROPOSED ONE-LINE DIAGRAM FOR POWER REQUIREMENTS. PROVIDE STATE CODE TANK.
- 6 GENERAL CONTRACTOR TO PROVIDE CONCRETE BASE PER MANUFACTURER'S REQUIREMENTS AND PER STRUCTURAL DETAIL 4 ON SHEET 95S502.
- 7 8'-0" AREA OF FUTURE OPENING, REFER TO ARCHITECTURAL DRAWINGS. NO CONDUIT MAY BE INSTALLED WITHIN THE BREAKOUT AREA OR WITHIN 6-INCHES OF EDGE.
- 8 10'-0" AREA OF FUTURE OPENING, REFER TO ARCHITECTURAL DRAWINGS. ROUTE CONDUIT TO MINIMIZE THE AMOUNT WITHIN THE BREAKOUT AREA AND EXTENDING 6-INCHES FROM ALL EDGES.
- 9 PROPOSED ROUTE FOR UTILITY TRANSFORMER PRIMARY FEEDERS.

DIRECT BURIED IDENTIFIERS

- A. STANDBY GENERATOR
 - 1. 1-4" CONDUIT FOR 480VAC FEEDERS
 - 2. 1-2" CONDUIT FOR 208VAC POWER
 - 3. 1-2" CONDUIT FOR 24VDC DISCRETE CONTROL
 - 4. 1-2" CONDUIT FOR MANUFACTURER'S SIGNAL CABLE
 - 5. 1-2" CONDUIT FOR SPARE



95 - GROUND LEVEL - ELECTRICAL SITE PLAN



1/8" = 1'-0" (22" x 34") 0 1/2 1 2
1/16" = 1'-0" (11" x 17")

PROJECT DATE:	DEC 23, 2025	DRAWN BY:	CJC	No.	DATE	REVISIONS	BY
		DESIGNED BY:	CJC				
		CHECKED BY:	LET				

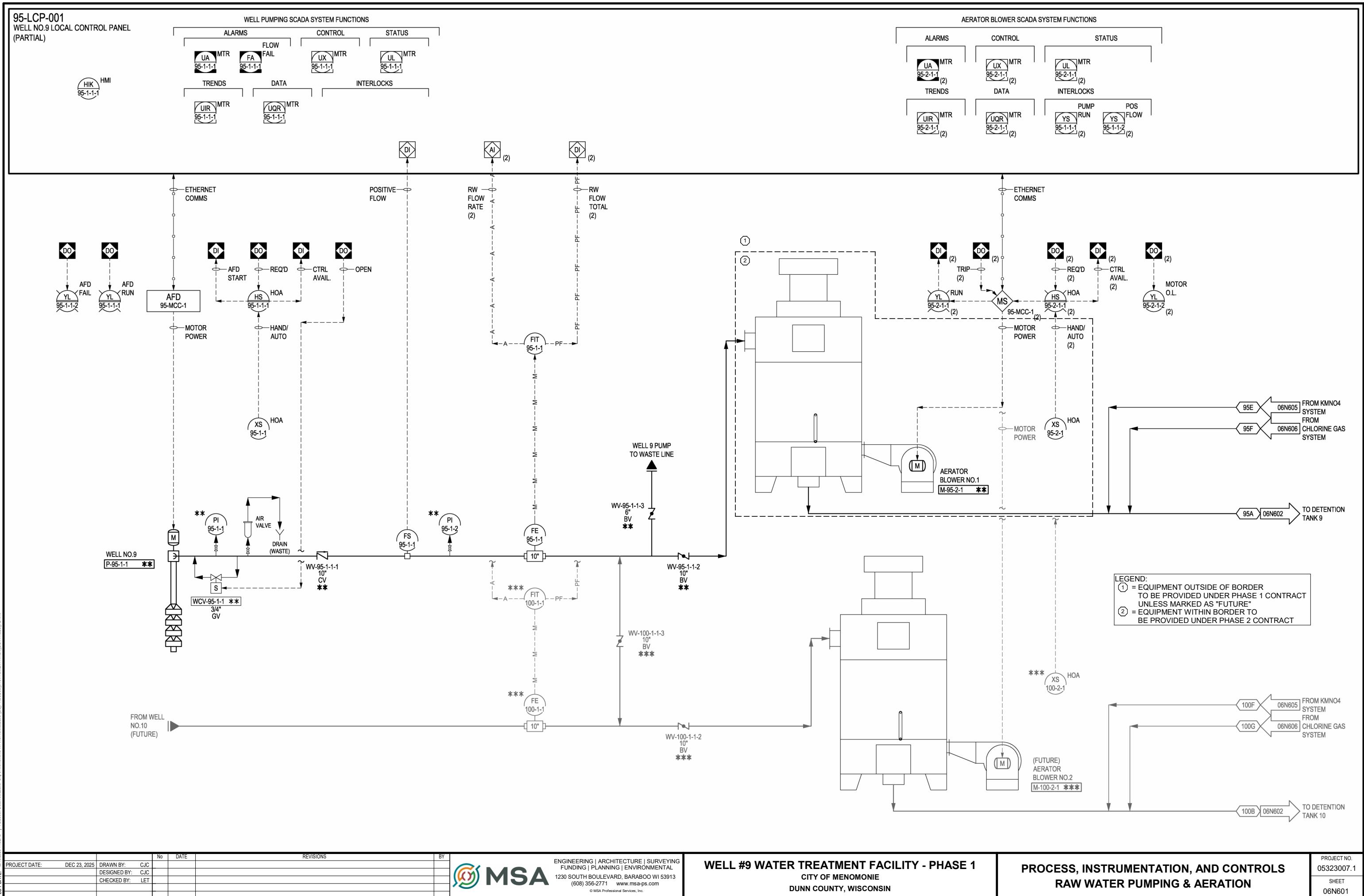


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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

SITE
OVERALL ELECTRICAL SITE PLAN

PROJECT NO.
05323007-1
SHEET
05E101



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		DESIGNED BY:	CJC		
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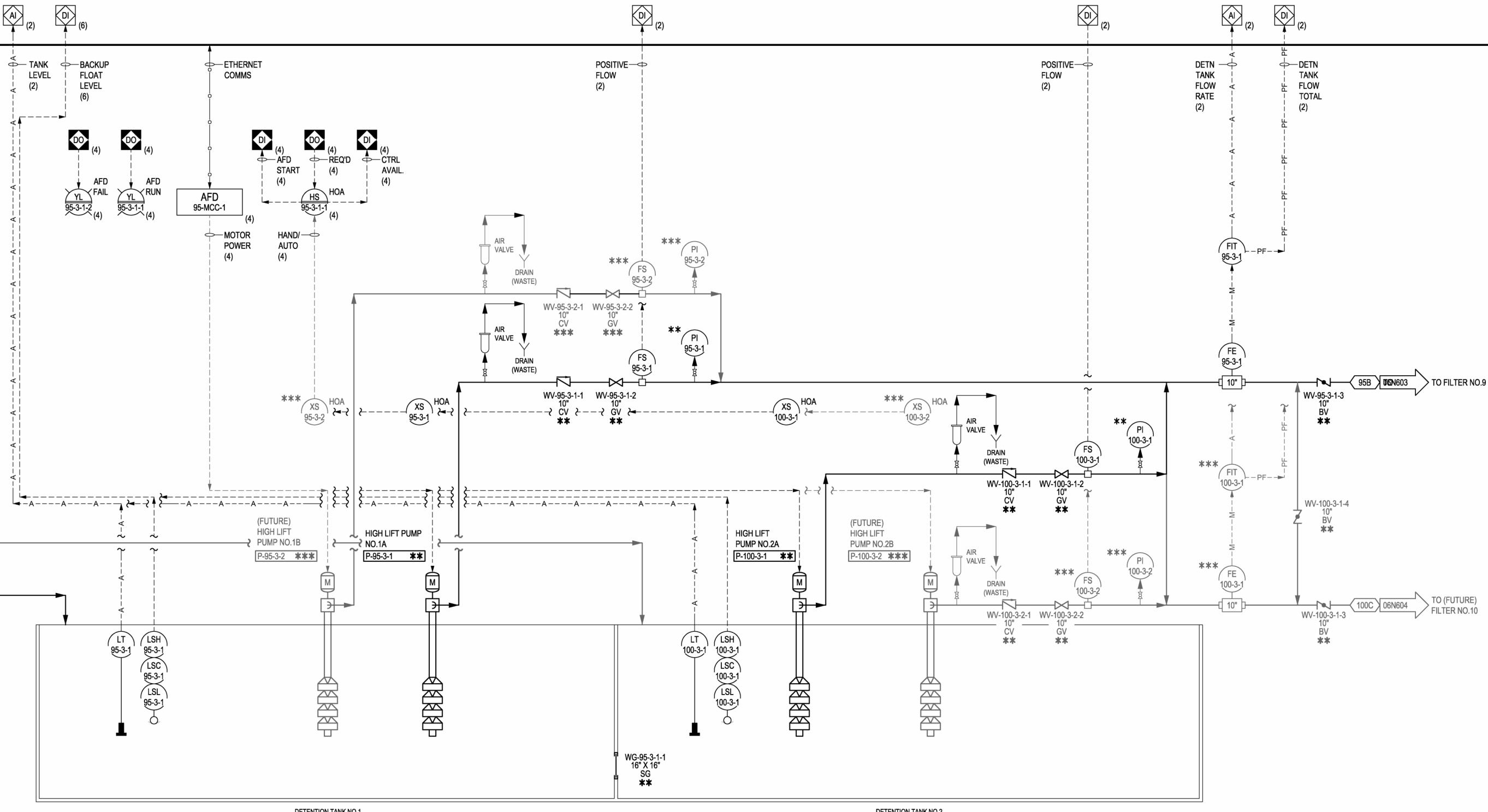
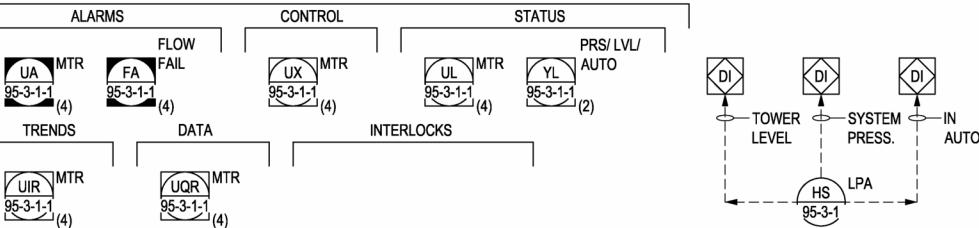
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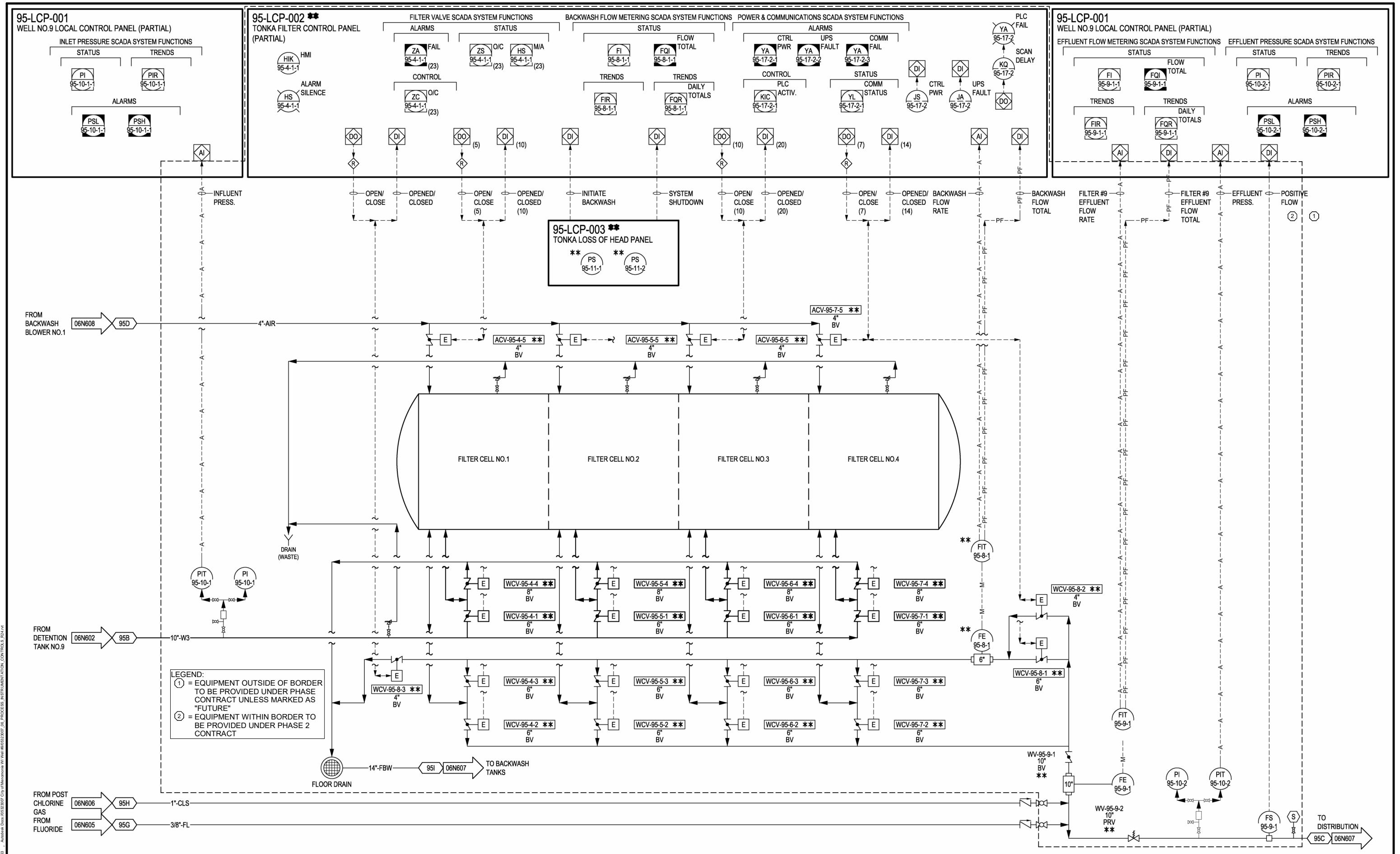
WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

PROCESS, INSTRUMENTATION, AND CONTROLS RAW WATER PUMPING & AERATION

PROJECT NO.
05323007.1
SHEET
06N601

HIGH LIFT PUMPING SCADA SYSTEM FUNCTIONS





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		DESIGNED BY:	CJC	
		CHECKED BY:	LET	

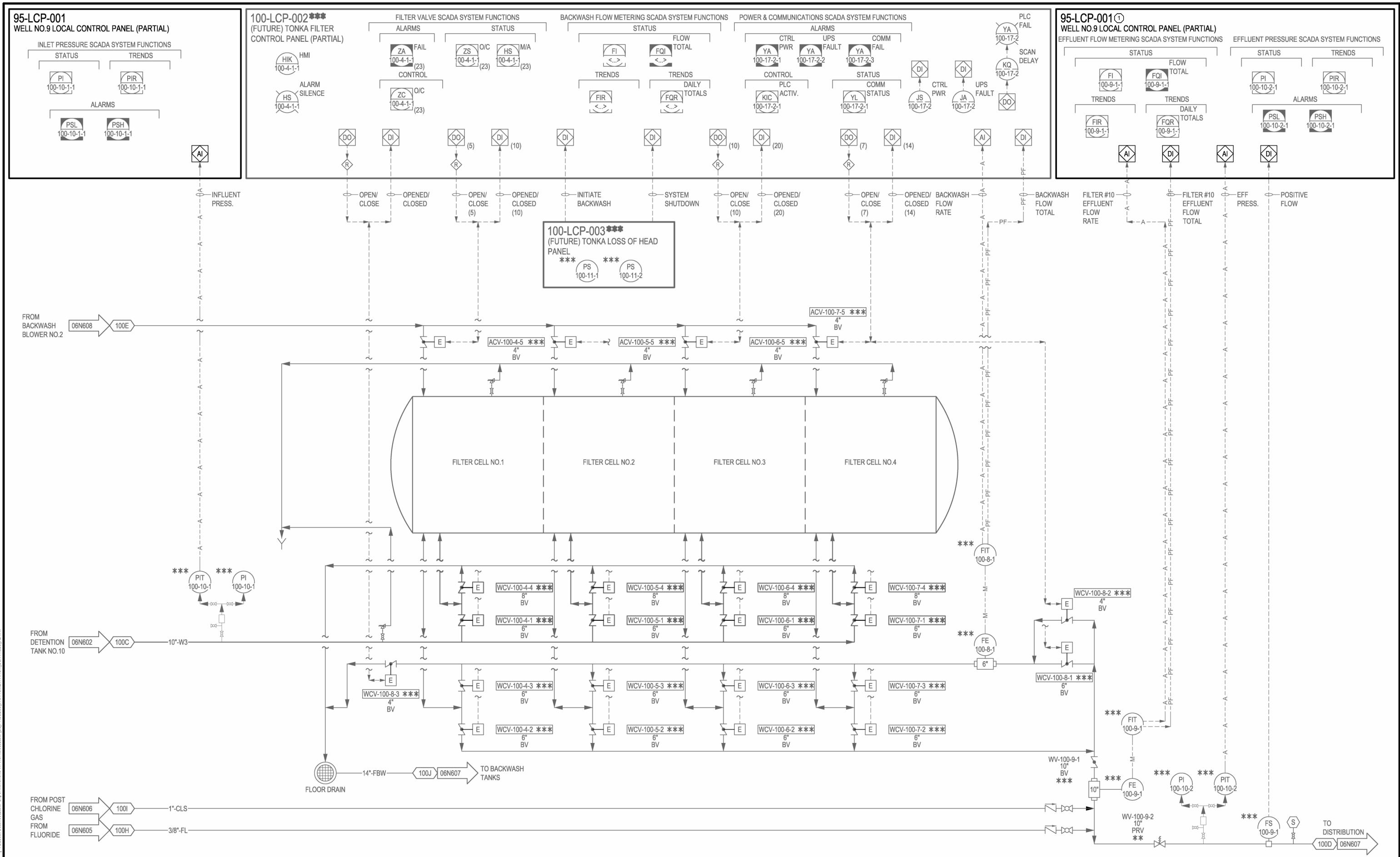


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PROCESS, INSTRUMENTATION, AND CONTROLS WELL #9 FILTER SYSTEM

PROJECT NO.
05323007.1
SHEET
06N603



			No	DATE	REVISIONS
PROJECT DATE:	DEC 23, 2025	DRAWN BY:	CJC		
		DESIGNED BY:	CJC		
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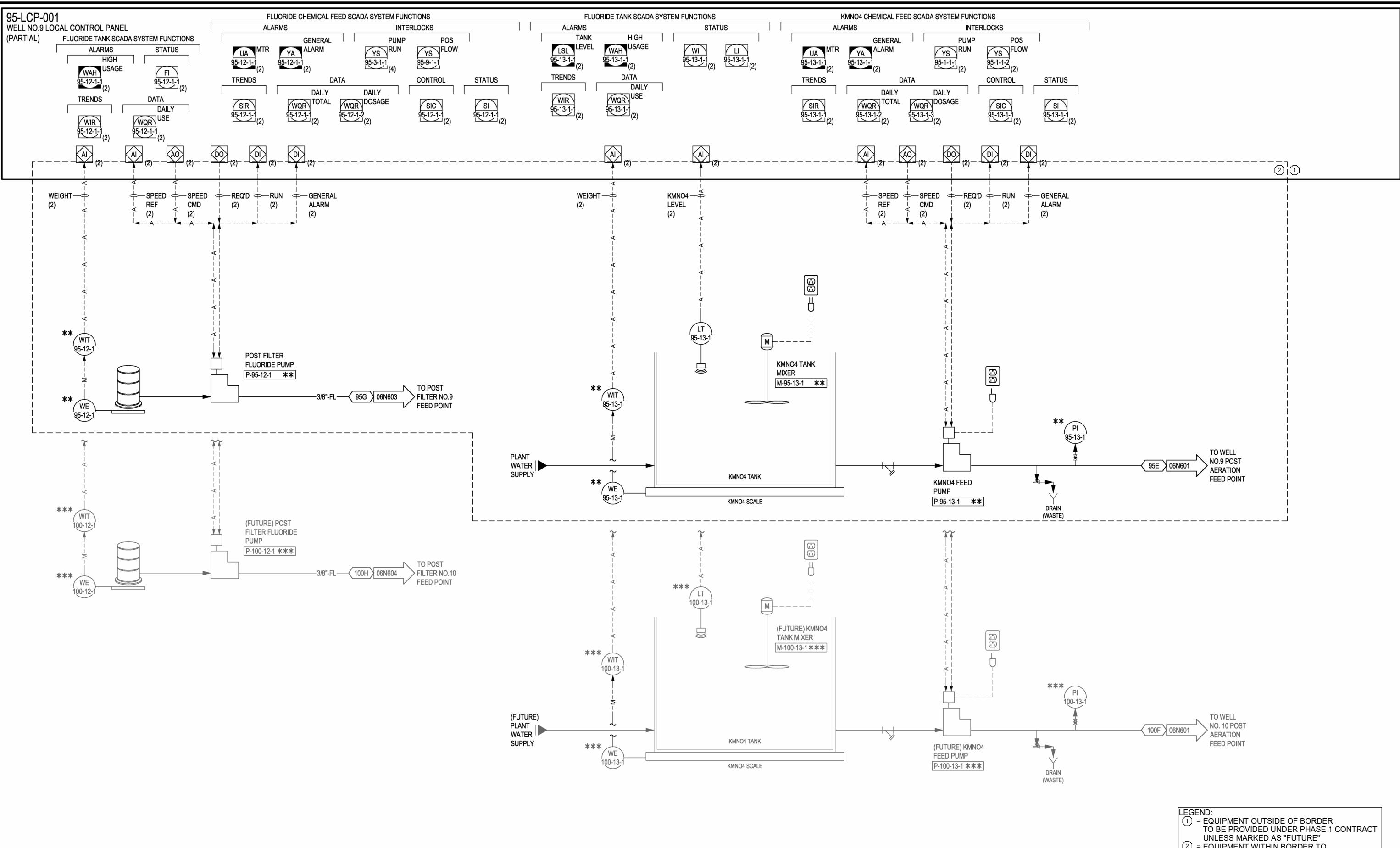
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CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

PROCESS, INSTRUMENTATION, AND CONTROLS WELL #10 FILTER SYSTEM

PROJECT NO.
05323007.1

SHEET
06N604



END:
= EQUIPMENT OUTSIDE OF BORDER
TO BE PROVIDED UNDER PHASE 1 CONTRACT
UNLESS MARKED AS "FUTURE"
= EQUIPMENT WITHIN BORDER TO
BE PROVIDED UNDER PHASE 2 CONTRACT



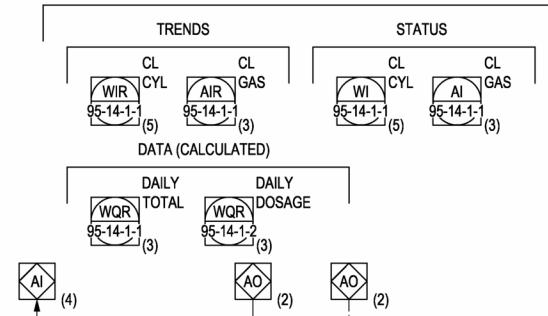
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CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

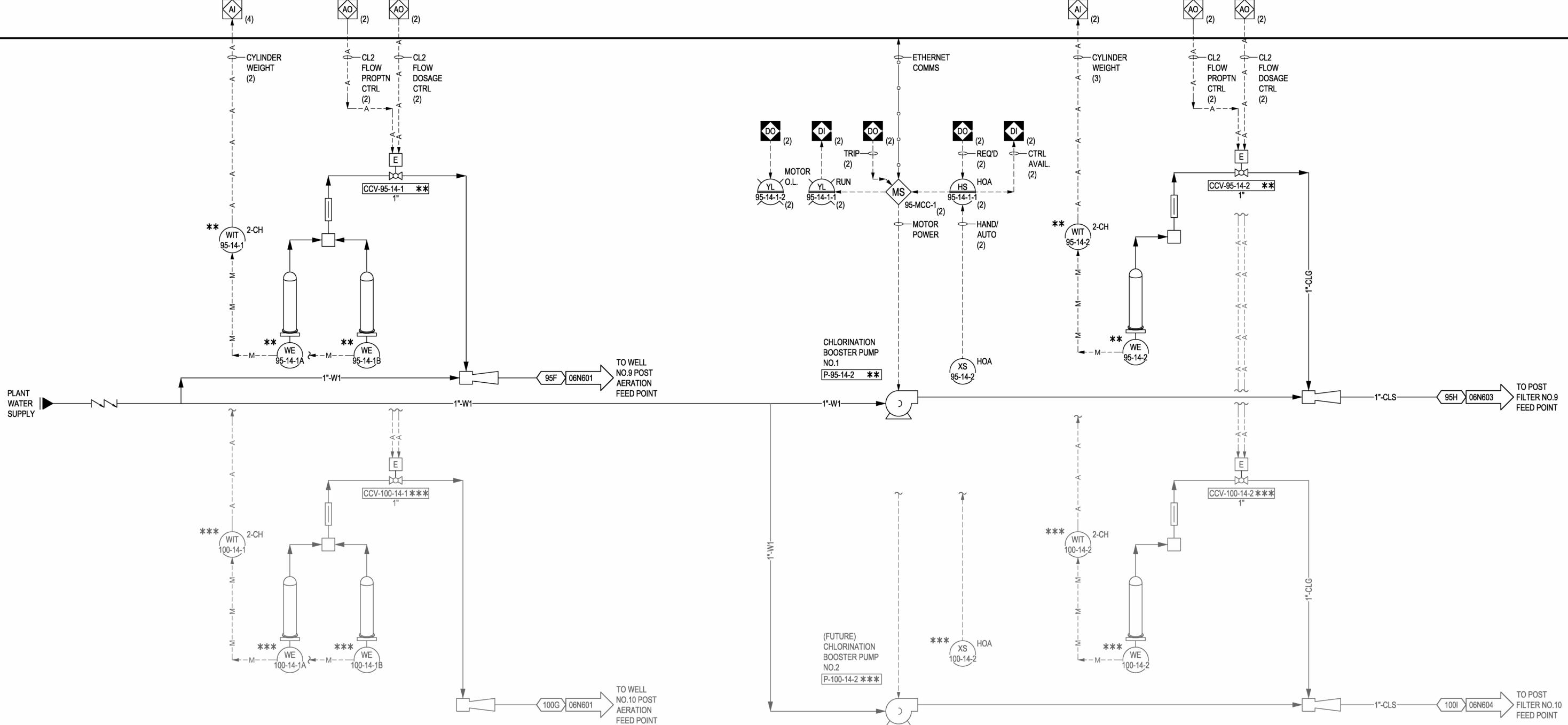
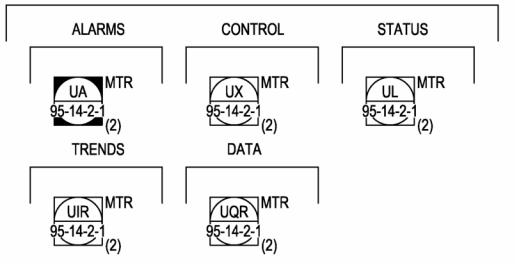
PROCESS, INSTRUMENTATION, AND CONTROLS FLUORIDE & PERMAGANATE CHEM FEED

PROJECT NO.
05323007.1
SHEET
06N605

CHLORINE GAS SYSTEM SCADA SYSTEM FUNCTIONS

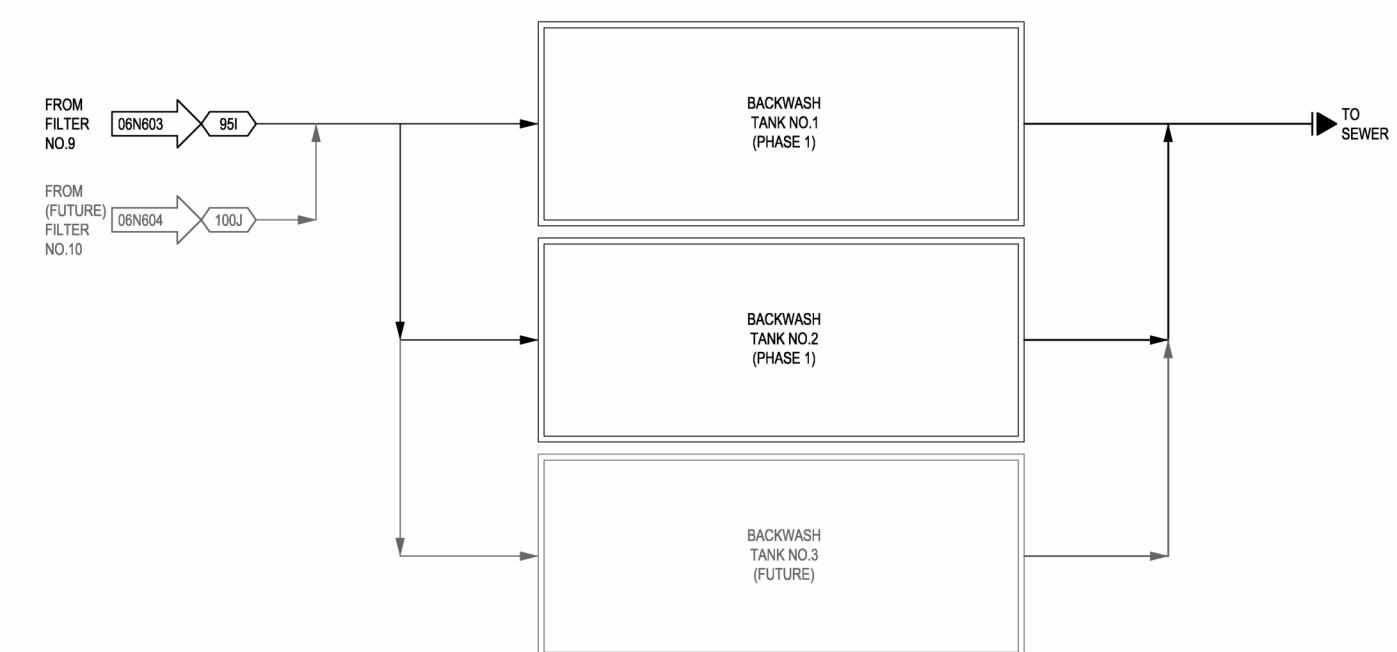
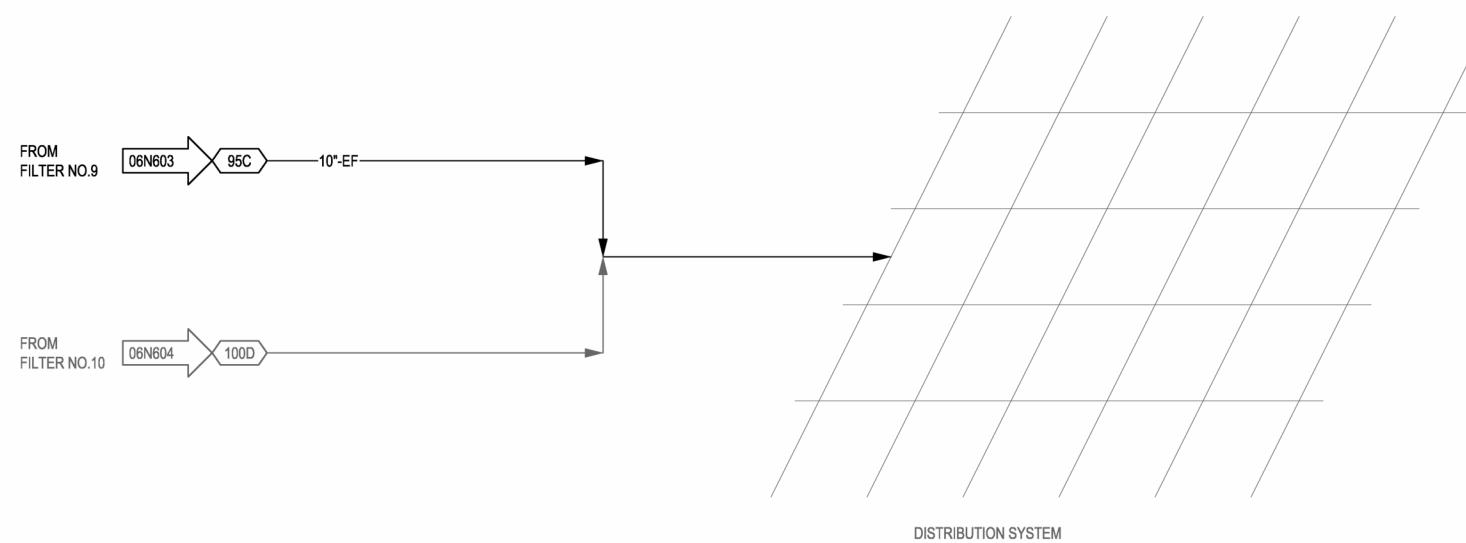
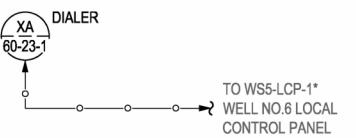


CHLORINE BOOSTER PUMPING SCADA SYSTEM FUNCTIONS



95-LCP-001
WELL NO.9 LOCAL CONTROL PANEL
(PARTIAL)

STR-60*
WELL NO.6
ALARM DIALER
PANEL



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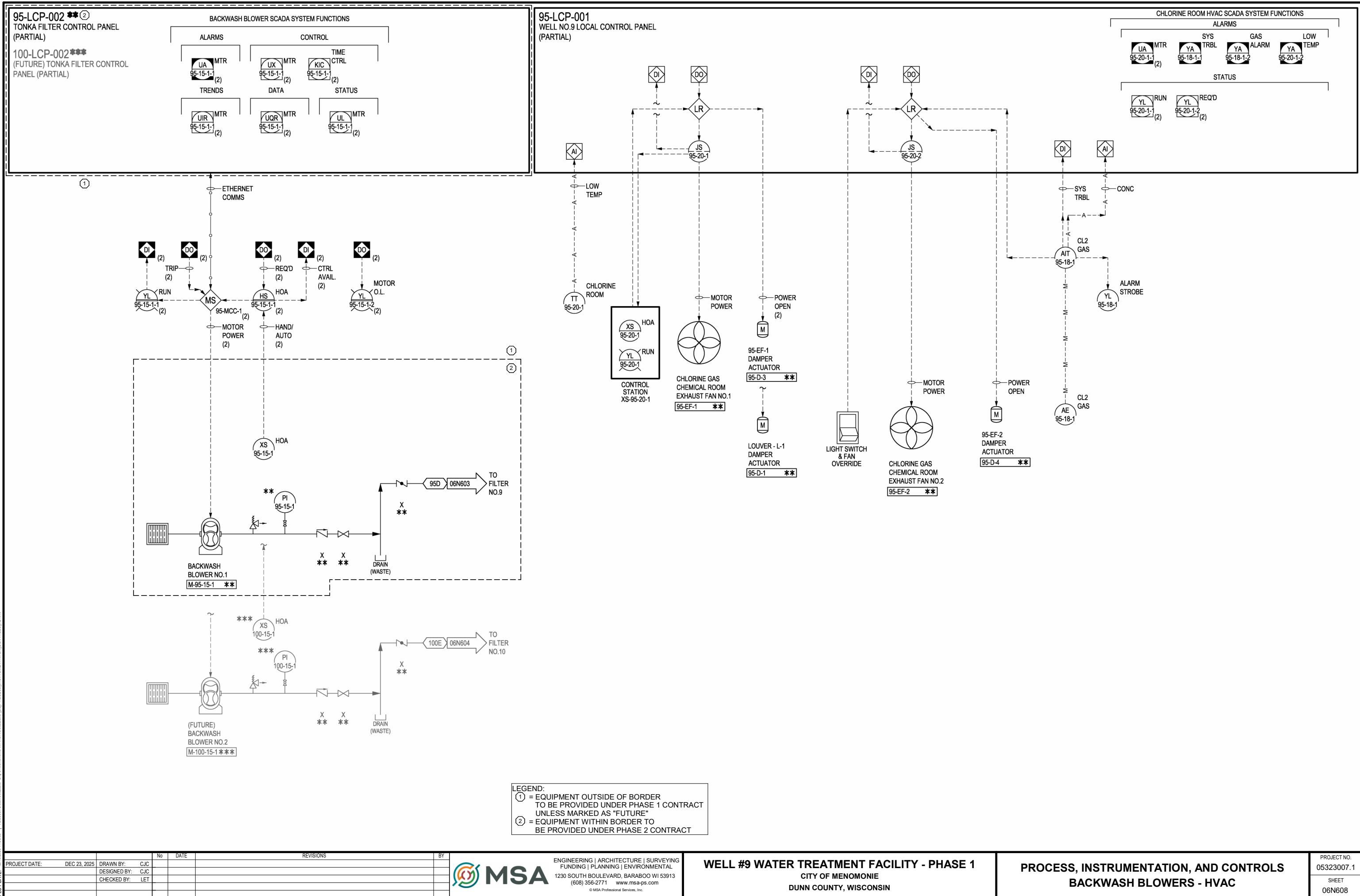


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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

PROCESS, INSTRUMENTATION, AND CONTROLS
DISTRIBUTION - BACKWASH TANKS

PROJECT NO.
05323007.1
SHEET
06N607



EQUIPMENT OUTSIDE OF BORDER
TO BE PROVIDED UNDER PHASE 1 CONTRACT
UNLESS MARKED AS "FUTURE"
EQUIPMENT WITHIN BORDER TO
BE PROVIDED UNDER PHASE 2 CONTRACT

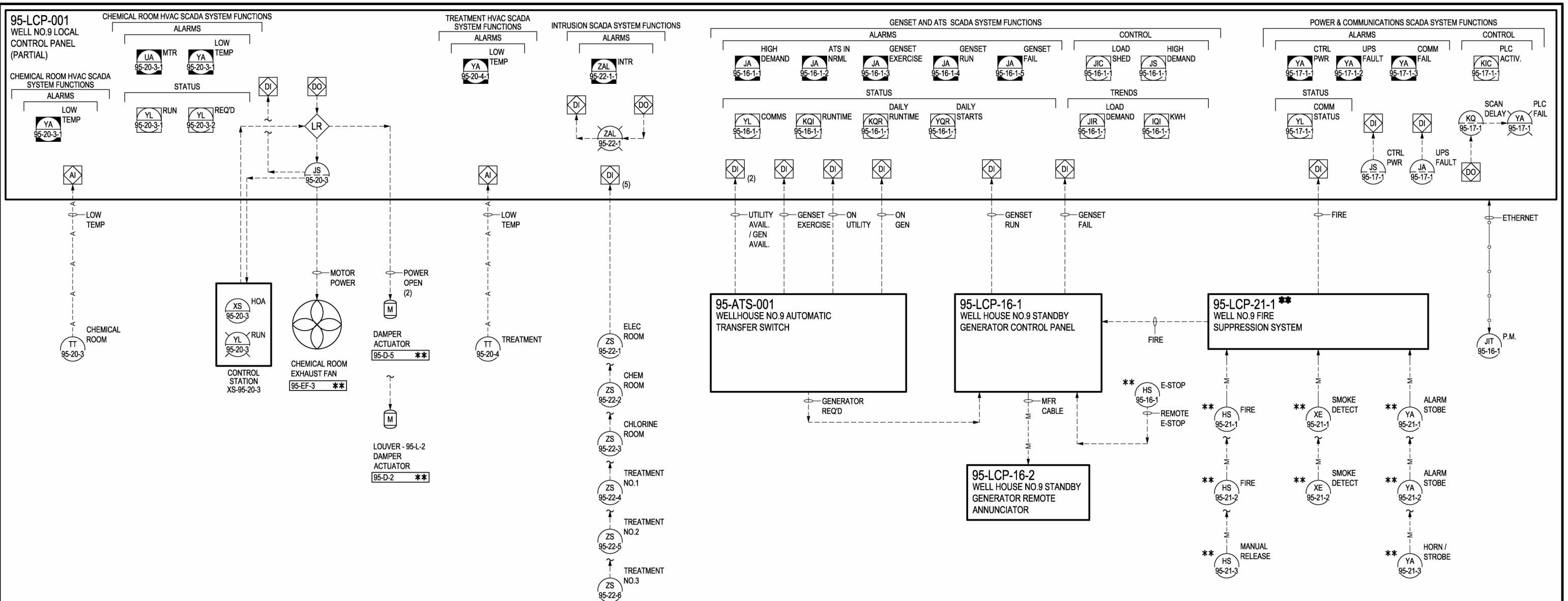
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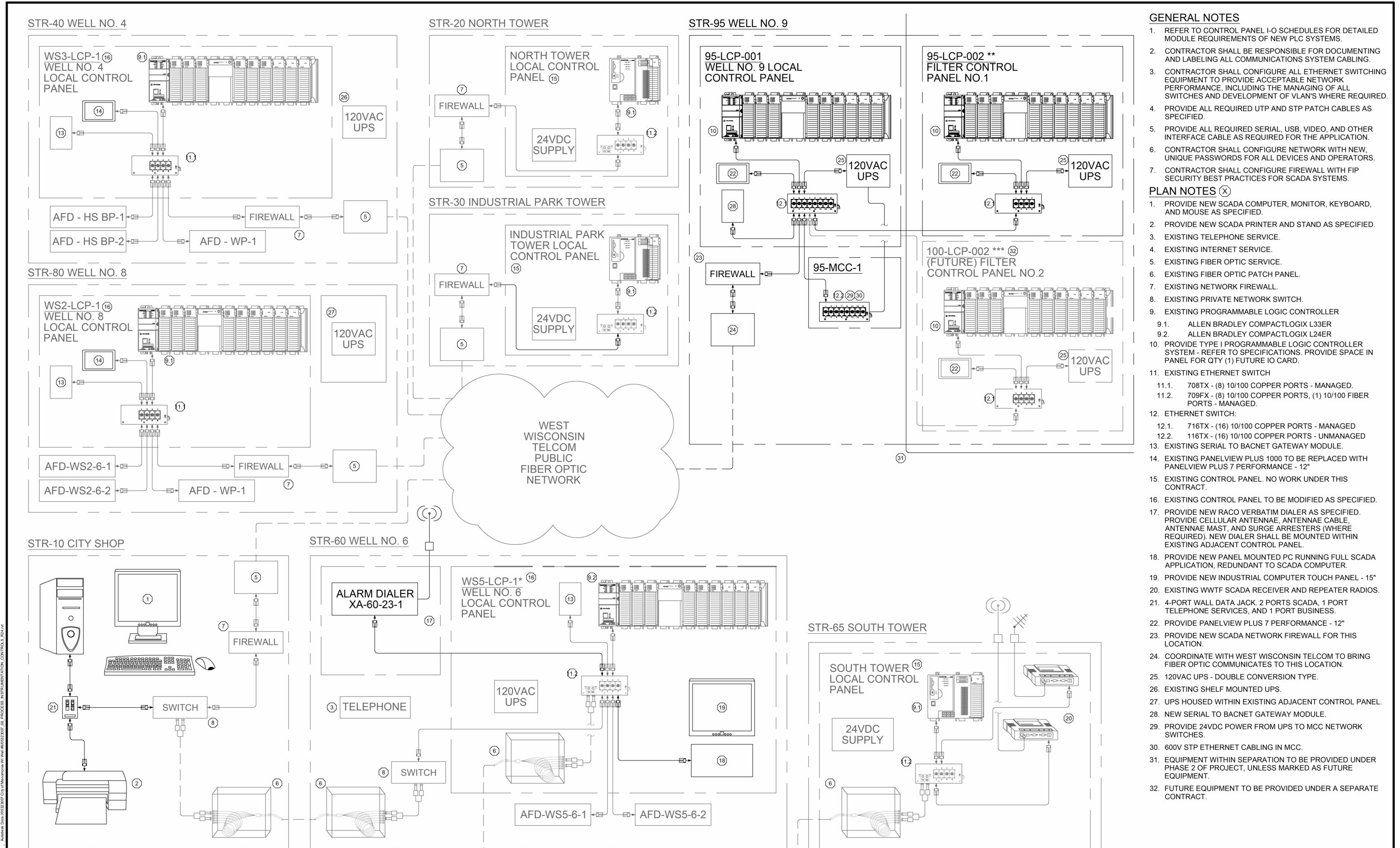
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CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

PROCESS, INSTRUMENTATION, AND CONTROLS

BACKWASH BLOWERS - HVAC

PROJECT NO.
05323007.1
SHEET
06N608





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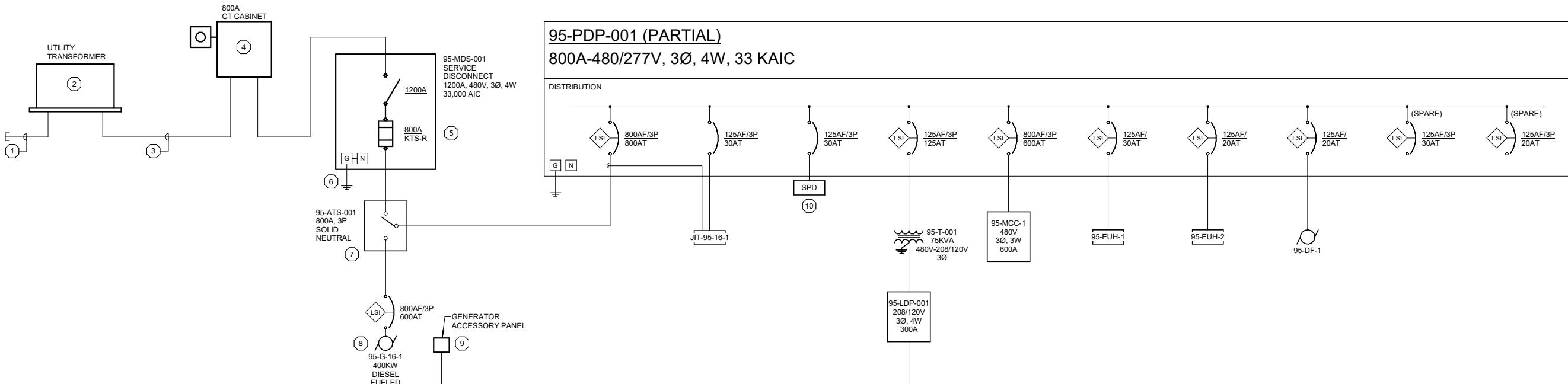


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CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

PROCESS, INSTRUMENTATION, AND CONTROLS
SCADA NETWORK DIAGRAM

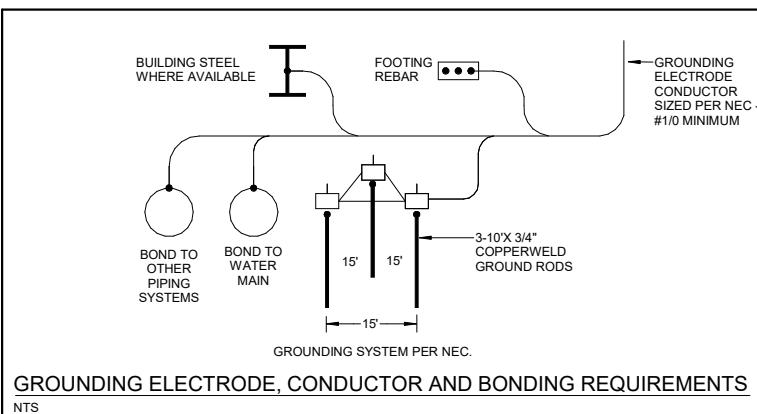
PROJECT NO.	05323007.1
SHEET	06N610



OVERALL ONE-LINE DIAGRAM
NTS

GENERAL NOTES:

1. LINE TYPE / LINE WEIGHT LEGEND:
 - A. **—** NEW EQUIPMENT
 - B. **—** NEW WIRING
 - C. **—** FUTURE EQUIPMENT
 - D. **—** FUTURE EQUIPMENT
2. CIRCUIT BREAKER / ELECTRONIC TRIP UNITS SHALL BE PROVIDED WITH THE FOLLOWING FUNCTIONS WHERE SO INDICATED:
 - A. "LSIG" INDICATES ELECTRONIC TRIP WITH ADJUSTABLE LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND FAULT SETTINGS.
 - B. "LSI" INDICATES ELECTRONIC TRIP WITH ADJUSTABLE LONG, SHORT, AND INSTANTANEOUS SETTINGS.
 - C. "I" INDICATES ADJUSTABLE INSTANTANEOUS (MAGNETIC) TRIP
 - D. "P.M." INDICATES POWER QUALITY METER IS REQUIRED FOR MONITORING OF CIRCUIT, REFER TO SPECIFICATIONS.
 - E. "ZSI" INDICATES ZONE SELECTIVE INTERLOCKING CIRCUIT BREAKER INTERLOCKED WITH MAIN, TIE, AND GENERATOR CIRCUIT BREAKERS IN SWITCHBOARD.
 - F. "MTZ" INDICATES MOTOR OPERATED CIRCUIT BREAKER CONTROLLED BY STAND-BY POWER CONTROL SYSTEM, REFER TO SPECIFICATIONS.
3. LOAD CIRCUIT BREAKER ELECTRONIC TRIP UNITS SHALL BE CAPABLE OF COMMUNICATING VOLTAGE, CURRENT, OPENED/CLOSED/TRIPPED STATUS, REFER TO P&IDS, NETWORK DRAWINGS, AND SPECIFICATIONS.
4. SEE "OVERALL ONE-LINE WIRING REQUIREMENTS" ON THIS DRAWING FOR NEW FEEDER AND BRANCH CIRCUIT WIRING REQUIREMENTS.
5. FEEDER SCHEDULE WIRING NOTATION IS SHOWN AS PHASE CONDUCTORS, NEUTRAL CONDUCTOR (WHERE REQUIRED), AND GROUND CONDUCTOR. WHERE MULTIPLE RUNS OF CONDUCTORS ARE INDICATED PROVIDE CONDUIT FOR EACH RUN.
6. FAULT CURRENTS INDICATED ARE ESTIMATED MAXIMUM AVAILABLE CURRENTS BASED ON DESIGN CONDITIONS. ACTUAL RATINGS SHALL BE DETERMINED BY THE SPECIFIED SYSTEM ANALYSIS STUDY.
7. THE PRIMARY OVERCURRENT PROTECTIVE DEVICES AND ASSOCIATED FEEDER CONDUCTORS FOR DRY TYPE TRANSFORMERS SHOWN ON THIS DRAWING ARE SIZED FOR 125% OF THE TRANSFORMER NAMEPLATE PRIMARY CURRENT. IF THE CONTRACTOR ELECTS TO SUPPLY TRANSFORMERS THAT REQUIRE HIGHER RATED PRIMARY OVERCURRENT PROTECTIVE DEVICES TO ACCOUNT FOR HIGHER INRUSH CHARACTERISTICS, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING OVERCURRENT PROTECTIVE DEVICES AND FEEDERS THAT COMPLY WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO SPECIFICATIONS.
8. REFER TO DRAWING 99-E601 FOR PANEL SCHEDULES.



KEY NOTES (x)

- 1 PROVIDE 2-6°C FOR UTILITY PRIMARY CONDUCTORS PER XCEL ENERGY "STANDARD FOR ELECTRIC INSTALLATION AND USE". PRIMARY CONDUCTORS PROVIDED BY UTILITY.
- 2 PAD-MOUNTED TRANSFORMER PROVIDED BY UTILITY. ELECTRICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE Poured-in-Place CONCRETE PAD PER XCEL ENERGY "STANDARD FOR ELECTRIC INSTALLATION AND USE".
- 3 CONDUCTORS FROM TRANSFORMER TO SECONDARY CONNECTION CABINET PROVIDED BY UTILITY.
- 4 SECONDARY CONNECTION CABINET AND METER SOCKET PER XCEL ENERGY "STANDARD FOR ELECTRIC INSTALLATION AND USE". METER BY UTILITY.
- 5 SERVICE ENTRANCE RATED NEMA 3R FUSED DISCONNECT SWITCH.
- 6 GROUNDING ELECTRODE, CONDUCTOR, AND BONDING PER DETAIL THIS SHEET.
- 7 800AMP NEMA 1 AUTOMATIC TRANSFER SWITCH WITH SOLID NEUTRAL.
- 8 STAND-BY GENERATOR PROVIDED AS PART OF THE STAND-BY POWER SYSTEM. REFER TO SPECIFICATIONS.
- 9 STAND-BY GENERATOR HOUSING ACCESSORY POWER PANEL PROVIDED AS PART OF THE STAND-BY POWER SYSTEM. REFER TO SPECIFICATIONS.
- 10 EXTERNALLY MOUNTED SURGE PROTECTIVE DEVICE (SPD). REFER TO SPECIFICATIONS. SPD MUST BE WITHIN 3FT OF PANEL OR USE HPI CABLE.

OVERALL ONE-LINE DIAGRAM WIRING REQUIREMENTS

LOAD	SOURCE	FEEDER CIRCUIT		WIRE SIZE	CONDUIT SIZE	CONDUCTOR MATERIAL	NOTES
		VOLTAGE	RATING				
95-G-1	95-ATS-001 (EMERGENCY)	480 V	600 A / 3 P	2 runs of 3#500, 1#500, 1#2/0	4"	Aluminum Conductor w/Neutral	
95-G-16-1-APP	95-LDP-001	208 V	80 A / 3 P	3-#4, 1-#4, 1-#8	2"	Copper Conductor w/Neutral	
95-ATS-001 (NORMAL)	UTILITY	480 V	800 A / 3 P	3 runs of 3#400, 1#400, 1#3/0	4"	Aluminum Conductor w/Neutral	1
95-PDP-001	95-ATS-001 (LOAD)	480 V	800 A / 3 P	3 runs of 3#400, 1#400, 1#3/0	4"	Aluminum Conductor w/Neutral	
95-MCC-1	95-PDP-001	480 V	600 A / 3 P	2 runs of 3#500, 1#2/0	4"	Aluminum Conductor w/o Neutral	
95-T-001	95-PDP-001	480 V	125 A / 3 P	3-#1, 1-#1, 1-#6	2"	Copper Conductor w/o Neutral	
95-LDP-001	95-T-001	208 V	300 A / 3 P	3#350, 1#350, 1#4	4"	Copper Conductor w/Neutral	

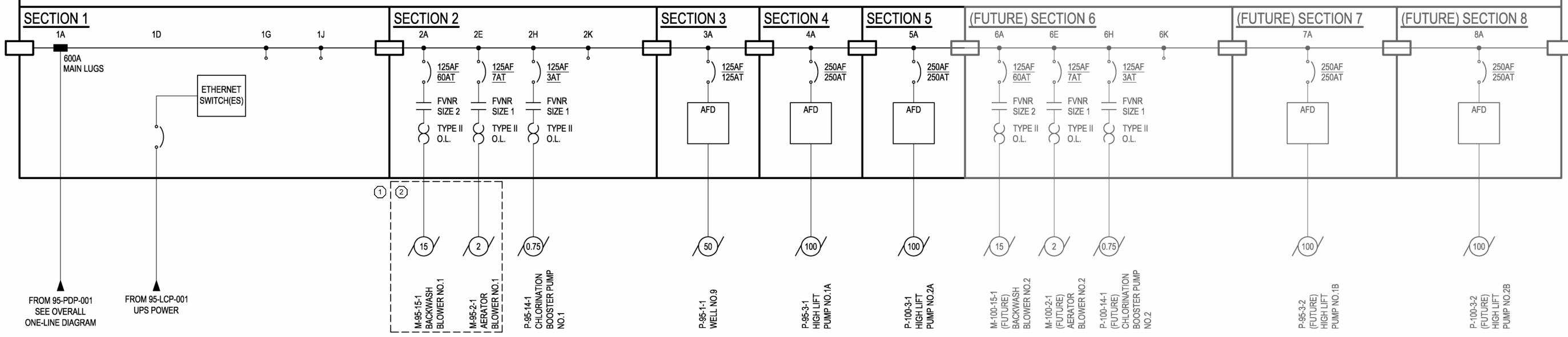
ONE-LINE SCHEDULE NOTES:

1. SERVICE ENTRANCE FROM CONTRACTOR PROVIDED, UTILITY APPROVED CT CABINET. PROVIDE 1-4" C SPARE.

PROJECT DATE:	DEC 23, 2025	DRAWN BY:	CJC	No.	DATE	REVISIONS	BY
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CHECKED BY:	LET						



95-MCC-1, WELLHOUSE NO.9
600A, 480V, 3Ø, 3W, 42,000 AIC



GENERAL NOTES:

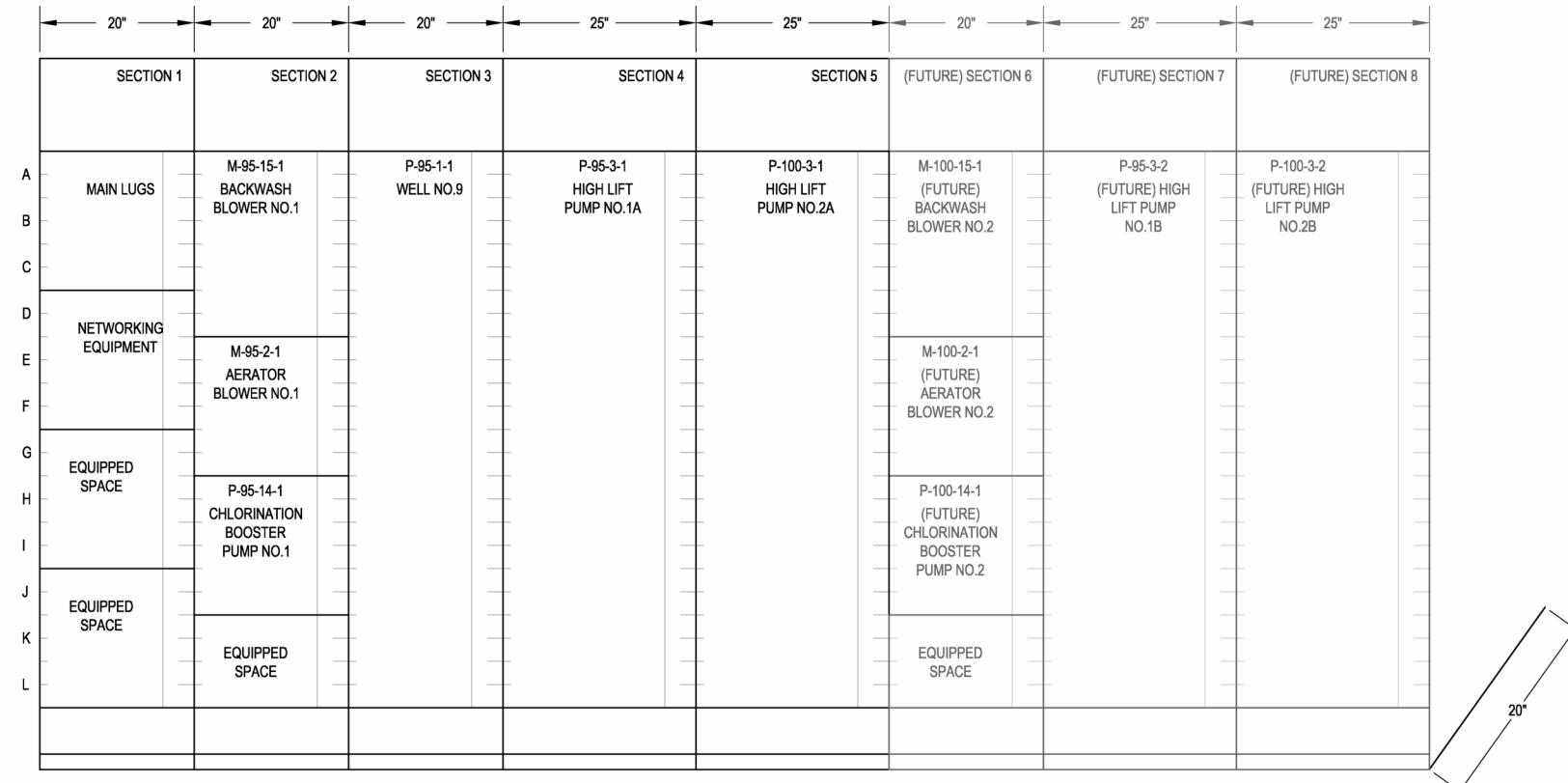
1. MOTOR BRANCH CIRCUIT WIRING REQUIREMENTS ARE IDENTIFIED IN THE MOTOR CONTROL CENTER SCHEDULE. ALL BRANCH CIRCUIT CONDUCTORS SHOWN ON THIS SCHEDULE SHALL BE COPPER UNLESS NOTED OTHERWISE. CONDUCTOR SIZE IS ADJUSTED FOR VOLTAGE DROP BASED ON ASSUMED ROUTING. CONTRACTOR SHALL ADJUST WIRE SIZES BASED ON THE VOLTAGE DROP CALCULATED FOR THE INSTALLED CABLE LENGTHS.
2. WHERE CIRCUIT CONDUCTORS ARE COMBINED IN SINGLE RACEWAY WITH THE CONDUCTORS OF ANOTHER CIRCUIT, CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTION OF CONDUCTOR SIZING BASED ON NEC REQUIREMENTS FOR AMPACITY DERATING WHEN MORE THAN THREE CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A SINGLE RACEWAY. SITE DUCT BANK SYSTEM DRAWINGS IDENTIFY RACEWAYS THAT ARE INTENDED TO CONTAIN MULTIPLE CIRCUITS. OTHER CASES MAY ARISE WHERE THE CONTRACTOR ELECTS TO COMBINE CIRCUITS WITHIN STRUCTURES.
3. MOTOR CONTROLLERS, OVERLOAD PROTECTION, AND OVERCURRENT PROTECTIVE DEVICES HAVE BEEN SELECTED BASED DESIGN DATA AND NOMINAL RATINGS REQUIRED BY THE NEC. CONTRACTOR SHALL ADJUST ANY EQUIPMENT RATINGS AS NECESSARY TO ACCOMMODATE THE FULL LOAD CURRENT REQUIREMENTS OF THE ACTUAL EQUIPMENT PROVIDED.
4. INPUT AND OUTPUT AFD APPURTENANCES ARE IDENTIFIED AS "X" IN THE VARIOUS MOTOR CONTROL CENTER SCHEDULE COLUMNS FOR EACH MOTOR WHERE REQUIRED. THESE APPURTENANCES ARE INTENDED TO BE INSTALLED WITHIN THE MOTOR CONTROL CENTER STRUCTURE BY THE EQUIPMENT SUPPLIER. IF THE SUPPLIER ELECTS TO INSTALL ANY OF THESE DEVICES REMOTE FROM THE MCC STRUCTURE, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING THE DEVICES.
5. REFER TO OVERALL ONE-LINE DIAGRAM FOR WIRING REQUIREMENTS ASSOCIATED WITH FEEDER CIRCUIT BREAKERS AND TRANSFORMERS NOTED ON THIS DRAWING.

95-MCC-1 MOTOR CONTROL CENTER SCHEDULE

TAG NUMBER	DESCRIPTION	STRUCTURE DATA				ELECTRICAL DATA					MOTOR CONTROLLER DATA			MOTOR CONTROLLER INPUT APPURTENANCES (MCC MOUNTED)			MOTOR CONTROLLER OUTPUT APPURTENANCES (MCC MOUNTED)				
		NUMBER	NAME	LEVEL	ROOM	VOLTAGE	PHASE	HP	VA RATING	WIRING	CONDUIT	TYPE	DUTY RATING	AFD HP RATING	AFD CURRENT RATING	REACTOR REQUIRED	PASSIVE FILTER REQUIRED	ACTIVE FILTER REQUIRED	REACTOR REQUIRED	DV/DT FILTER REQUIRED	SINEWAVE FILTER REQUIRED
P-95-1-1	WELL NO.9	STR-95	WELL #9	GROUND LEVEL	95-106 TREATMENT	480 V	3	50	54040 VA	3-#2, 1-#6	1"	AFD	H.D.	60	77	X					1.2
M-95-2-1	AERATOR BLOWER NO.1	STR-95	WELL #9	GROUND LEVEL	95-106 TREATMENT	480 V	3	2	2827 VA	3-#12, 1-#12	3/4"	MS	N.D.								3
M-100-2-1	(FUTURE) AERATOR BLOWER NO.2	STR-95	WELL #9	GROUND LEVEL	95-106 TREATMENT	480 V	3	2	2827 VA	3-#12, 1-#12	3/4"	MS	N.D.								4
P-95-3-2	(FUTURE) HIGH LIFT PUMP NO.1B	STR-95	WELL #9	GROUND LEVEL	95-106 TREATMENT	480 V	3	100	103092 VA	3-#4/0, 1-#44	2"	AFD	H.D.	125	156						4
P-95-3-1	HIGH LIFT PUMP NO.1A	STR-95	WELL #9	GROUND LEVEL	95-106 TREATMENT	480 V	3	100	103092 VA	3-#4/0, 1-#44	2"	AFD	H.D.	125	156	X					1.2
P-100-3-1	HIGH LIFT PUMP NO.2A	STR-95	WELL #9	GROUND LEVEL	95-106 TREATMENT	480 V	3	100	103092 VA	3-#4/0, 1-#44	2"	AFD	H.D.	125	156	X					1.2
P-100-3-2	(FUTURE) HIGH LIFT PUMP NO.2B	STR-95	WELL #9	GROUND LEVEL	95-106 TREATMENT	480 V	3	100	103092 VA	3-#4/0, 1-#44	2"	AFD	H.D.	125	156	X					4
P-95-14-2	CHLORINATION BOOSTER PUMP NO.1	STR-95	WELL #9	GROUND LEVEL	95-106 TREATMENT	480 V	3	0.75	1330 VA	3-#12, 1-#12	3/4"	MS	N.D.								3
P-100-14-1	(FUTURE) CHLORINATION BOOSTER PUMP NO.2	STR-95	WELL #9	GROUND LEVEL	95-106 TREATMENT	480 V	3	0.75	1330 VA	3-#12, 1-#12	3/4"	MS	N.D.								4
M-95-15-1	BACKWASH BLOWER NO.1	STR-95	WELL #9	GROUND LEVEL	95-106 TREATMENT	480 V	3	15	17459 VA	3-#10, 1-#10	3/4"	MS	N.D.								3
M-100-15-1	(FUTURE) BACKWASH BLOWER NO.2	STR-95	WELL #9	GROUND LEVEL	95-106 TREATMENT	480 V	3	15	17459 VA	3-#10, 1-#10	3/4"	MS	N.D.								4

MOTOR CONTROL CENTER SCHEDULE NOTES:

1. MINIMUM SIZE CONDUCTORS AND CONDUIT ARE IDENTIFIED IN THE SCHEDULE FOR THIS MOTOR. CONTRACTOR SHALL PROVIDE SHIELDED DRIVE CABLE (THREE CONDUCTORS AND GROUND) FOR THIS MOTOR AND SHALL ADJUST CONDUIT SIZE TO ACCOMODATE THE CABLE. FOR BIDDING PURPOSES ASSUME CONDUIT SIZE WILL INCREASE ONE STANDARD TRADE SIZE.
2. UPSIZE CONDUCTORS PER NEC FOR H.D. DRIVE REQUIREMENTS.
3. EQUIPMENT FURNISHED AND INSTALLED UNDER ANOTHER DIVISION OF THE SPECIFICATIONS. CONDUIT AND CONDUCTORS TO BE PROVIDED UNDER PHASE 2 CONTRACT.
4. FUTURE EQUIPMENT TO BE PROVIDED UNDER A LATER CONTRACT.



95-MCC-1, WELLHOUSE NO.9
MOTOR CONTROL CENTER FRONT ELEVATION
NTS

PROJECT DATE:	DEC 23, 2025	DRAWN BY:	CJC	No.	DATE	REVISIONS	BY
		DESIGNED BY:	CJC				
		CHECKED BY:	LET				



GENERAL NOTES AND FOUNDATION NOTES

- A. SEE GENERAL NOTES ON ARCHITECTURAL AS THEY APPLY TO THIS WORK.
- B. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
- C. ALL DIMENSIONING IS TO FACE CONCRETE OR PRECAST PANELS OR PLANK, UNO.
- D. OPENINGS FOR PROCESS MECHANICAL, PLUMBING, HVAC, AND ELECTRICAL WORK IN WALLS, FLOORS, ROOF, ETC, SHALL BE PROVIDED BY BUILDING SUPPLIER. LOCATION AND SIZE OF THESE OPENINGS SHALL BE THE RESPONSIBILITY OF THE ASSOCIATED CONTRACTOR.
- E. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS.
- F. CONTRACTOR TO COORDINATE STRUCTURAL, ARCHITECTURAL, PLUMBING, HVAC, PROCESS MECHANICAL, AND ELECTRICAL DRAWINGS FOR DETAILS, DIMENSIONS, ELEVATIONS, AND OPENINGS.
- G. NOTIFY ARCHITECT AND ENGINEER OF RECORD OF ANY VARIANCE BEFORE COMMENCING CONSTRUCTION. IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY ENGINEER.
- H. SIMILAR PORTIONS OF THE BUILDING SHALL HAVE SIMILAR DETAILING, UNLESS NOTED OTHERWISE.
- I. FOOTINGS SHALL BE CENTERED ABOUT THE WALLS, UNLESS NOTED OTHERWISE.
- J. FOR THE BUILDING FOUNDATION, ALL FOUNDATION WALL FORM TIES SHALL BE KNOCKED OFF FLUSH w/ FACE OF THE WALL (INTERIOR AND EXTERIOR). AT TIES BELOW FINISHED FLOOR AND/ OR FINISHED GRADE, INSTALL (1) LAYER OF DAMP-PROOFING PRODUCT OVER THE AREA OF THE REMOVED TIE, TYP.
- K. SEE SPECIFICATION FOR TIE REQUIREMENTS AT WATER-RETAINING STRUCTURES.
- L. ALL JOINTS IN RETAINING LIQUID STRUCTURES SHALL BE PROVIDED w/ WATERSTOP AT THE SLAB/WALL JOINT AND AT ALL CONSTRUCTION JOINTS. SEE DETAIL 3/99S501 FOR TYPICAL WALL/SLAB JOINT DETAIL.
- M. BACKFILL AND COMPACT ENGINEERED FILL ON BOTH SIDES OF FOUNDATION WALLS SIMULTANEOUSLY TO AVOID OFFSET LATERAL LOADING CONDITIONS.
- N. REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS AND RECOMMENDATIONS FOR REMOVAL OF UNDESIRABLE SOILS, SITE SOIL AND SUBGRADE PREPARATION. STRUCTURAL BACKFILL, EXISTING SOIL BASE AND COMPACTION OF GRANULAR FILL LAYERS SHALL BE MONITORED BY A QUALIFIED GEOTECHNICAL ENGINEER.
- O. SEE ARCHITECTURAL DRAWINGS FOR BOARD INSULATION REQUIREMENTS AT THE BUILDING FOUNDATION PERIMETER AND FOR UNDER THE SLAB-ON-GRADE.
- P. SLEEVES, PIPES, AND WALL PIPES SHALL BE CAST INTO FOUNDATIONS AND SLABS AS REQUIRED FOR OTHER WORK. ITEMS TO BE CAST IN SHALL BE PROVIDED BY THE RESPONSIBLE CONTRACTOR. THE LOCATION OF ITEMS SHALL BE THE RESPONSIBILITY OF THE ASSOCIATED CONTRACTOR.
- Q. CONTRACTOR SHALL REFER TO SOIL REPORT FOR EXISTING SOIL INFORMATION, EXPECTED GROUNDWATER CONTROLS, AND BACKFILL RECOMMENDATIONS.
- R. PROVIDE MINIMUM 12" THICK LAYER OF COARSE CRUSHED STONE WRAPPED IN A GEOTEXTILE FABRIC BENEATH MAT SLAB. EXTEND 12" BEYOND SLAB AND ENCASE LAYER WITH SAS FABRIC. ADDITIONAL COMPACTED STRUCTURAL FILL MAY BE REQUIRED IN AREAS OF UNSUITABLE OR SOFT SOILS BELOW AND STRUCTURAL FOUNDATIONS OR FOOTINGS.
- S. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF ALL TEMPORARY BRACING AND CONSTRUCTION SUPPORTS FOR STRUCTURES AS NECESSARY TO COMPLETE THE PROJECT. NO PORTION OF THE PROJECT, WHILE UNDER CONSTRUCTION IS INTENDED TO BE STABLE IN THE ABSENCE OF THE CONTRACTOR'S TEMPORARY BRACES AND SUPPORTS. CONTRACTOR SHALL RETAIN A STRUCTURAL ENGINEER LICENSED IN THE STATE OF PROJECT LOCATION TO DESIGN ALL TEMPORARY BRACING AND CONSTRUCTION SUPPORT.

CONCRETE AND REINFORCING NOTES

1. ALL LAPS SHALL BE CLASS 'B' PER ACI 318, CURRENT EDITIONS, UNLESS NOTED OTHERWISE ON THE DESIGN DRAWINGS.
2. LAP LENGTH SHALL BE SPECIFICALLY NOTED BY DETAILER ON PLACING DRAWINGS WHEN MORE THAN ONE BAR MAKES UP A CONTINUOUS STRING. DETAILER SHALL PROVIDE STAGGERED LAPS FOR CONTINUOUS BAR RUNS. TOP BAR LAP LENGTHS SHALL BE USED FOR ALL HORIZONTAL WALL BARS AND FOR BARS IN SLABS WITH MORE THAN 12" OF CONCRETE BELOW THE LAP.
3. BAR PLACEMENT TOLERANCES SHALL BE AS SPECIFIED IN THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) MANUAL OF STANDARD PRACTICE, CURRENT EDITION.
4. ALL REINFORCING BAR DIMENSIONS ARE FROM OUT-TO-OUT OF BAR. ALL BEND ANGLES ARE AT 45° AND 90° UNLESS NOTED OTHERWISE.
5. PROVIDE ADDITIONAL DIAGONAL REINFORCING AROUND ALL OPENINGS AND PENETRATIONS THROUGH WALLS AND SLABS. - SEE DETAIL 4/95S501.
6. DIAGONAL REINFORCING SHALL BE PROVIDED AT RE-ENTRANT CORNERS IN SLABS-ON-GRADE (DO NOT CROSS CONTROL JOINTS). - SEE DETAIL 4/95S501
7. DOWEL BAR HOOKS SHALL BE PLACED AT THE SAME HORIZONTAL LEVEL AS BOTTOM LAYER STEEL REINFORCING, UNO.

DESIGN LOADS AND CRITERIA					
BUILDING CODE... WISCONSIN COMMERCIAL BUILDING CODE, REFERS TO IBC 2021 BUILDING RISK CATEGORY.....III					
WIND LOADS*					
BASIC WIND SPEED.....115 MPH					
WIND IMPORTANCE FACTOR, Iw.....1.0					
WIND EXPOSURE.....C					
PER ASCE 7-16, CHAPTER 28 (ENVELOPE PROCEDURE)					
MAIN WIND FORCE RESISTING SYSTEM					
WALLS (LATERAL) ZONE A.....+21.0 PSF					
ZONE C.....+13.9 PSF					
ROOF (LATERAL) ZONE B/D.....-10.9 PSF					
ROOF (UPLIFT) ZONE E.....-25.2 PSF					
ZONE F.....-14.3 PSF					
OVERHANG MAX.....-35.3 PSF					
COMPONENTS AND CLADDING (C&C)					
ASSUMED EFFECTIVE WIND AREA.....10 SF					
ROOF C&C, VERTICAL PRESSURES:					
TYPICAL POS. PRESSURE.....+10.0 PSF					
INT ZONE 1 NEG. PRESSURE.....-33.4 PSF					
EDGE ZONE 2 NEG. PRESSURE.....-44.0 PSF					
CORNER ZONE 3 NEG. PRESSURE.....-60.0 PSF					
WALL C&C HORIZONTAL PRESSURES:					
POS. PRESSURE.....+21.0 PSF					
NEG. PRESSURE.....-28.1 PSF					
OVERHANG TYP.....-56.8 PSF					
* PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.					
ADDITIONAL LOADS					
PRECAST SUPERIMPOSED DEAD LOAD.....20 PSF					
PRECAST ROOF PANEL WEIGHT (TO BE CONFIRMED BY MFR).....80 PSF					
PC PLANK DEFLECTION, MAX.....L/360					
SEISMIC DESIGN DATA					
SEISMIC IMPORTANCE FACTOR, Ie.....1.5					
SEISMIC DESIGN CATEGORY.....A					
SEISMIC SITE CLASS.....C					
ANALYSIS PROCEDURE.....EQUIVALENT LATERAL FORCE					
MAPPED SPECTRAL RESPONSE ACCELERATIONS					
Ss.....0.045					
S1.....0.032					
SPECTRAL RESPONSE COEFFICIENTS					
Sds.....0.039					
Sd1.....0.032					
SEISMIC FORCE-RESISTING SYSTEM.....ORDINARY REINFORCED MASONRY SHEAR WALLS					
SEISMIC RESPONSE COEFFICIENT, Cs.....0.010					
RESPONSE MODIFICATION FACTOR, R.....2.0					
SEISMIC BASE SHEAR, V.....7.2 KIPS					
LIVE LOADS					
ROOF LIVE LOAD (MINIMUM).....20 PSF					
FLOOR LIVE LOAD AND DETENTION TANK LID.....100 PSF					
EQUIPMENT FLOOR LIVE LOAD (PRESSURE FILTER).....1100 PSF OR 35000 LBS					
MEZZANINE FLOOR LIVE LOAD.....125 PSF					
SNOW LOADS					
GROUND SNOW LOAD, Pg.....50 PSF					
FLAT-ROOF SNOW LOAD, Pf.....35 PSF					
SNOW EXPOSURE FACTOR, Ce.....1.0					
SNOW IMPORTANCE FACTOR, Is.....1.10					
THERMAL FACTOR, Ct.....1.0					
SLOPED ROOF SNOW LOAD, Ps.....35 PSF					
MINIMUM SNOW LOAD, Pm.....22 PSF					
DESIGN SNOW LOAD.....35 PSF					
ROOF SLOPE FACTOR, Cs.....1.0					
SNOW DRIFT.....NOT REQUIRED					

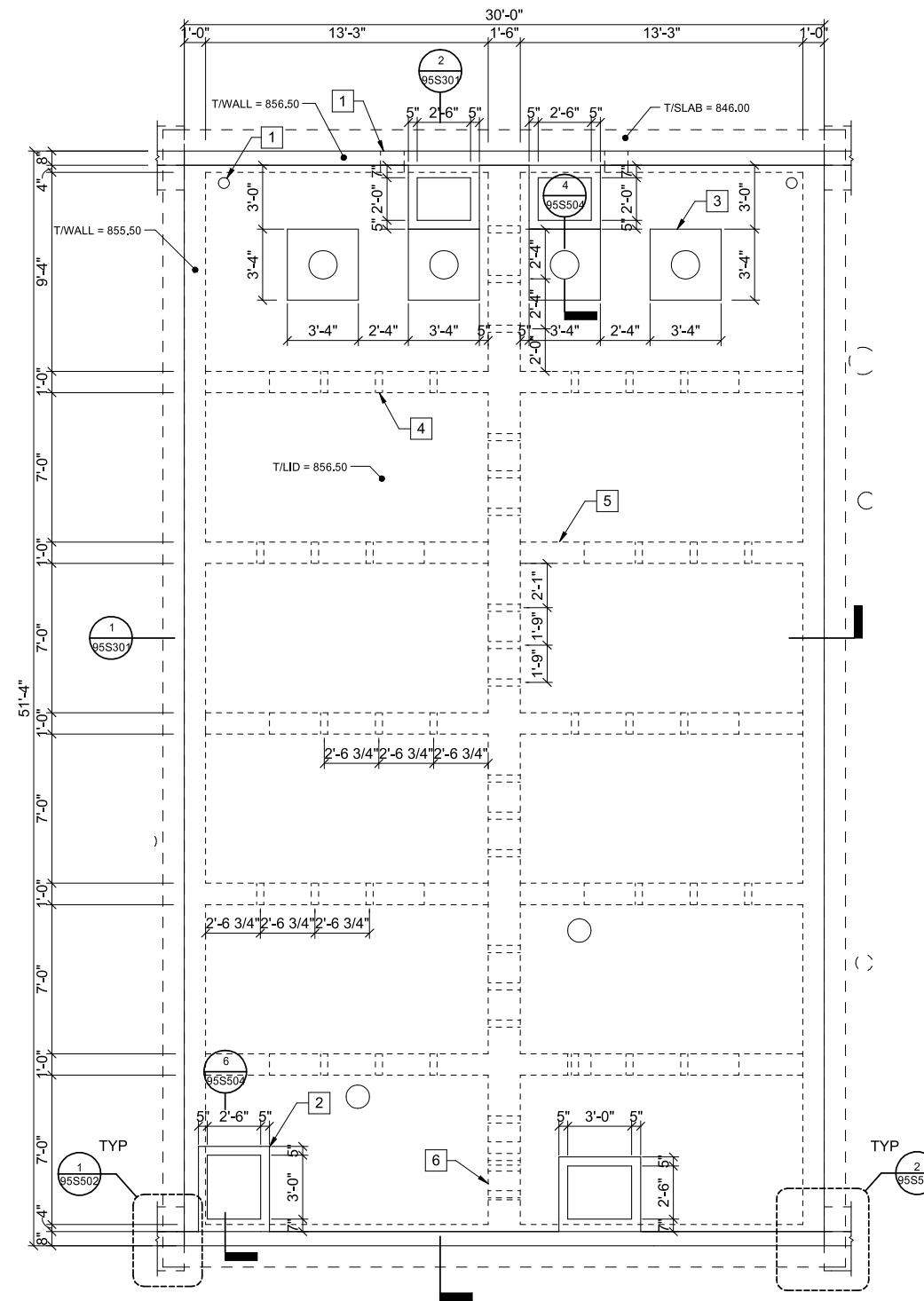
DESIGN STRESSES					
GEOTECHNICAL INFORMATION					
NET ALLOWABLE SOIL BEARING PRESSURE.....q = 4000 PSF					
GEOTECHNICAL REPORT No. 25712.25.WIL PREPARED BY: CHOSEN VALLEY TESTING					
DATED: 06/21/2025					
REINFORCING STEEL					
REINFORCING.....fy = 60 KSI					
CAST-IN-PLACE CONCRETE					
FOOTINGS.....fc = 4000 PSI					
WALLS.....fc = 4000 PSI					
SLAB-ON-GRADE & EQUIPMENT PADS.....fc = 5000 PSI					
LIQUID RETAINING & CONTAINMENT AREAS.....fc = 5000 PSI					
OTHER.....fc = 3500 PSI					
MASONRY					
COMPRESSIVE STRENGTH.....fm = 2500 PSI					
STRUCTURAL WOOD SHEATHING					
WALL SHEATHING: APA-RATED SHEATHING, EXP 1, 15/32", 32/16 SPAN RATING, 8d COMMON NAILS AT 6" OC AT PANEL EDGES, 12" OC AT INTERMEDIATE SUPPORTS, BLOCKED AT PANEL EDGES.					
LUMBER					

KEYNOTES

1. PIPE PENETRATION, TYP - SEE PROCESS MECHANICAL FOR SIZE AND LOCATION.
2. FLOOR HATCH CONCRETE CURB, TYP - FINAL LOCATION AND SIZE TO BE COORDINATED WITH ARCHITECTURAL AND PROCESS MECHANICAL
3. ISOLATION CONCRETE PAD, TYP - FINAL OPENING LOCATION AND SIZE TO BE COORDINATED WITH PROCESS MECHANICAL
4. AIR VENT OPENING, TYP - FINAL OPENING LOCATION AND SIZE TO BE COORDINATED WITH PROCESS MECHANICAL
5. BAFFLE OPENING, TYP - FINAL LOCATION AND SIZE TO BE COORDINATED WITH PROCESS MECHANICAL
6. SLIDE GATE OPENING - FINAL OPENING LOCATION AND SIZE TO BE COORDINATED WITH PROCESS MECHANICAL

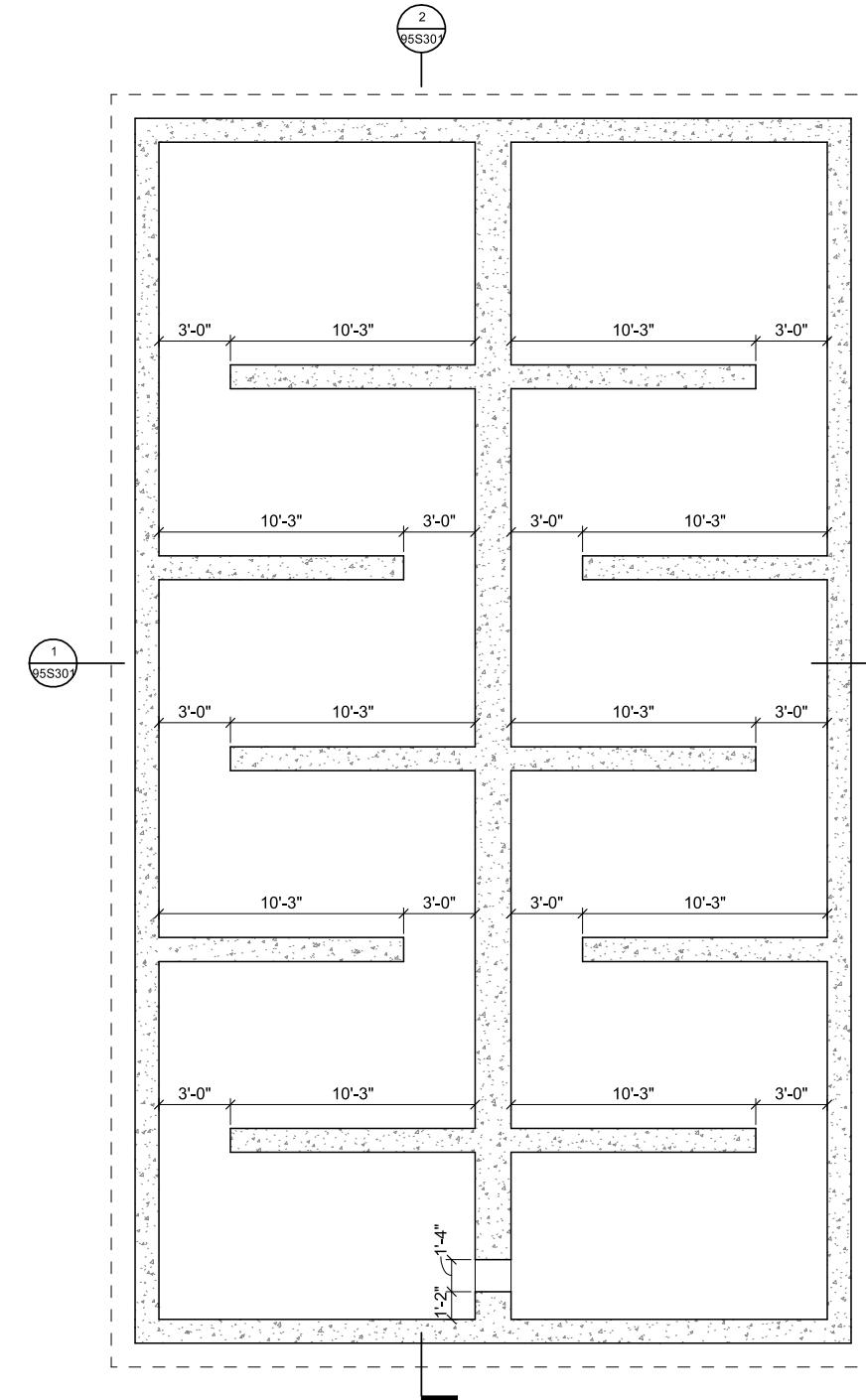
GENERAL NOTES

- A. SEE GENERAL FOUNDATION NOTES ON SHEET 95S001
- B. SEE CONCRETE & REINFORCING NOTES ON SHEET 95S001
- C. SEE DESIGN STRESSES TABLES ON SHEET 95S001



TANK LID PLAN

1/4" = 1'-0" (22" x 34") 0 2 4 8
1/8" = 1'-0" (11" x 17")



TANK FOUNDATION PLAN

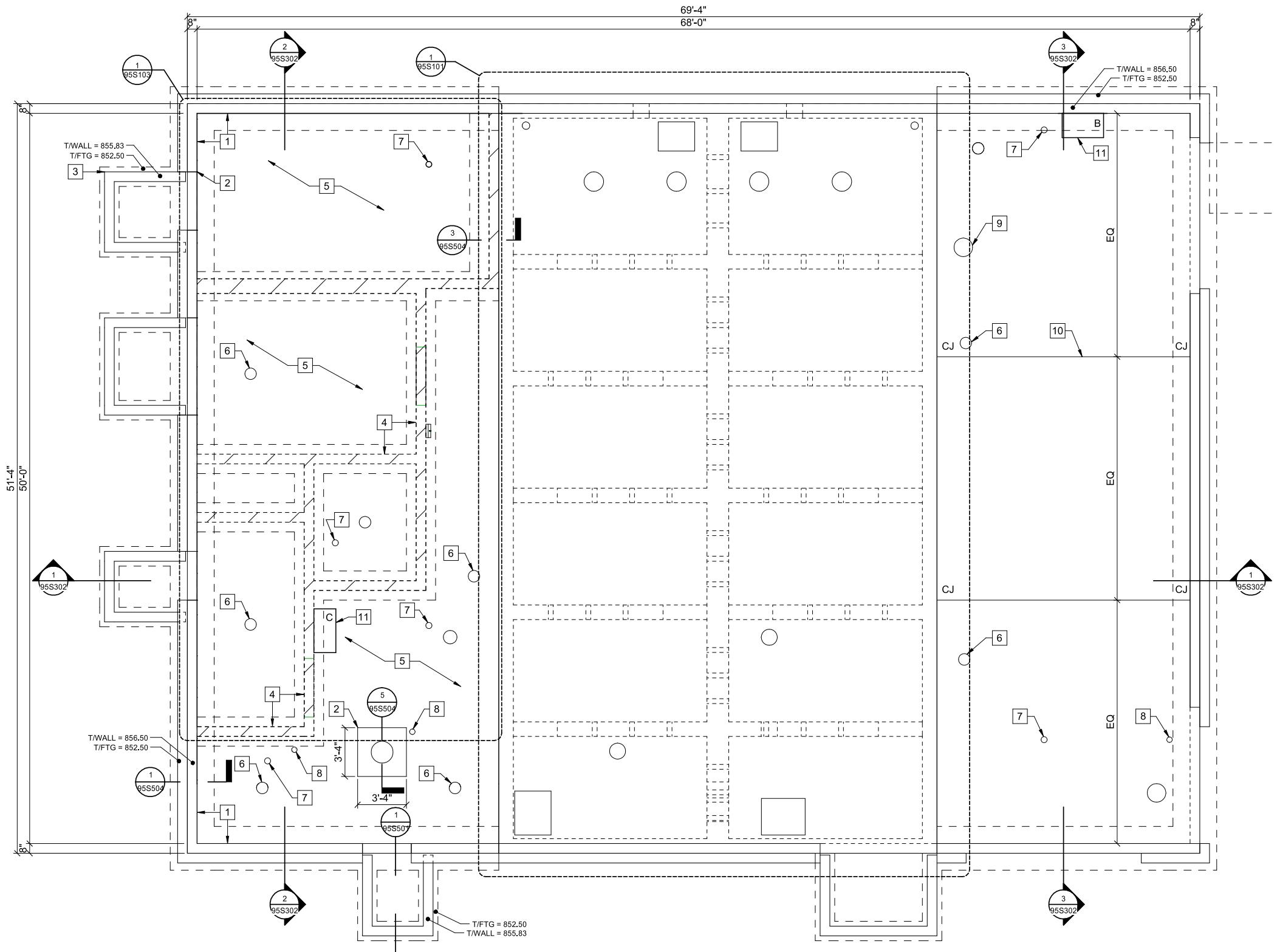
1/4" = 1'-0" (22" x 34") 0 2 4 8
1/8" = 1'-0" (11" x 17")

KEYNOTES

- 1/2" RIGID INSULATION w/ REMOVABLE CAP AND SELF-LEVELING SEALANT AT PERIMETER OF SLAB-FOUNDATION WALL JOINT, TYPICAL.
- (1) #5 x 18" LONG CORNER BAR IN CENTER OF FLOOR SLAB AT RE-ENTRANT CORNER (DOOR OPENINGS, PADS THROUGH SLAB, ETC.) AS SHOWN, TYP - SEE DETAIL 4/95S501. DO NOT RUN THROUGH CJS.
- ALIGN OUTSIDE EDGE OF STOOP FOUNDATION WALL WITH DOOR OPENING - SEE ARCHITECTURAL FOR LOCATION.
- DASHED LINE INDICATES CMU WALL ABOVE LOCATED ON SLAB-ON-GRADE, TYP. REINFORCE w/ (1) #5 VERTICAL BAR AT 48" OC AND TYPICAL CONT BOND BEAM w/ (2) #5 CONT HORIZ BARS AT TOP, GROUT ALL CELLS SOLID AT REINFORCEMENT.
- 6" THICK CONCRETE SLAB w/ #5 AT 18" OC, EACH WAY, OVER VAPOR BARRIER, 6" COMPACTED GRANULAR FILL - SEE DETAIL 3/95S501.
- FLOOR DRAIN - SEE ARCHITECTURAL AND PLUMBING SHEETS FOR FLOOR DRAIN LOCATIONS AND REQUIRED FLOOR SLOPES
- PLUMBING CLEANOUT - SEE PLUMBING SHEETS FOR LOCATION
- HUB DRAIN - SEE PLUMBING SHEETS FOR LOCATION
- PIPE PENETRATION, TYP - SEE PROCESS MECHANICAL FOR SIZE AND LOCATION.
- SLAB-ON-GRADE CONTROL OR CONSTRUCTION JOIN (CJ) - SEE DETAIL CONCRETE EQUIPMENT PAD. SEE SCHEDULE ON 95S001

GENERAL NOTES

- SEE GENERAL FOUNDATION NOTES ON SHEET 95S001
- SEE CONCRETE & REINFORCING NOTES ON SHEET 95S001
- SEE DESIGN STRESSES TABLES ON SHEET 95S001



FOUNDATION PLAN

1/4" = 1'-0" (22" x 34") 0 2 4 8
1/8" = 1'-0" (11" x 17")

PROJECT DATE:	DEC 23, 2025	DRAWN BY:	JRG	REVISIONS	BY
DESIGNED BY:	JRG				
CHECKED BY:	DMG				



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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

WELL AND BUILDING
FOUNDATION PLAN

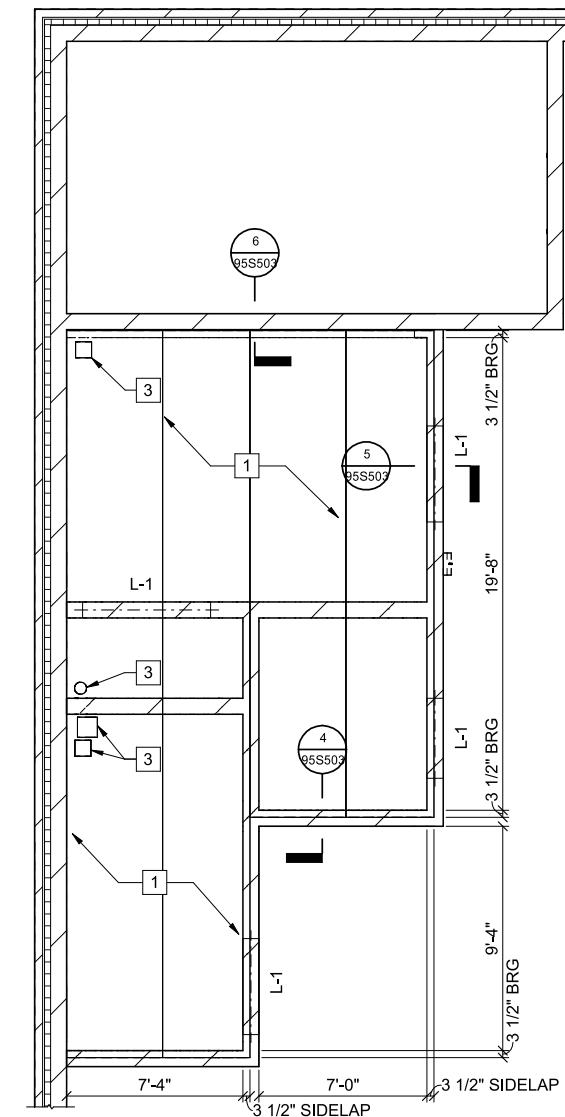
PROJECT NO.
05323007.1
SHEET
95S102

KEYNOTES #

1. TYPE 'B' PLANK - SEE PRECAST CONCRETE PLANK SCHEDULE ON SHEET 95S001. SEE DETAIL 7/95S503 FOR KEYWAY DETAILING
2. 8" CMU BEARING WALL w/ (1) #5 AT 48" OC, TYP VERTICAL WALL REINFORCEMENT
3. OPENING IN PRECAST FOR DUCT. SEE HVAC FOR SIZE AND LOCATION. GROUT CORES SOLID MIN 8" FROM OPEN END

GENERAL FRAMING NOTES

- SEE SHEET 95S001 FOR DESIGN LOADINGS, DESIGN STRESSES, AND SCHEDULES
- PROVIDE #5 VERTICAL REINFORCEMENT AS INDICATED AT CMU EXTERIOR BEARING WALLS, UNO. GROUT ALL CELLS SOLID AT REINFORCEMENT. THESE WALLS SHALL BE CONSIDERED THE LATERAL FORCE RESISTING SYSTEM.
- CORNER AND JAMB REINFORCING: (1) #5 BAR GROUTED SOLID FULL HEIGHT IN CENTER OF CORE, TYP.
- DOOR AND WINDOW WALL OPENING REINFORCING: (1) #5 BAR GROUTED SOLID TO BOTTOM OF LINTEL IN CENTER OF CORE ADJACENT TO WALL OPENING, AND (1) #5 BAR GROUTED SOLID FULL HEIGHT IN CENTER OF ADJACENT CORE, TYP.
- CONTROL JOINT REINFORCING: (1) #5 BAR GROUTED SOLID FULL HEIGHT IN CENTER OF CORE ON EACH SIDE OF CMU WALL CONTROL JOINT, TYP.
- SEE DETAIL 6/95S501 FOR CMU BOND BEAM AT CONTROL JOINT DETAILING.
- EXTEND ALL VERTICAL REINFORCEMENT BARS 6" INTO TOP OF WALL BOND BEAM.
- AT INTERIOR CMU PARTITION WALLS PROVIDE TYPICAL TOP OF WALL REINFORCED BOND BEAMS AND WALL REINFORCEMENT AT WALL OPENINGS, LINTELS, WALL CORNERS, AND CONTROL JOINTS.
- SEE LINTEL SCHEDULE ON 95S001 FOR LINTELS FOR WALL OPENINGS NOT DEPICTED ON PLAN

**MEZZANINE FRAMING PLAN**

1/4" = 1'-0" (22" x 34") 0 2 4 8
1/8" = 1'-0" (11" x 17")

PROJECT DATE:	DEC 23, 2025	DRAWN BY:	JRG	No	DATE	REVISIONS	BY
				DESIGNED BY:	DMG	CHECKED BY:	DMG
PILOT DATE:	12/19/2025	4:01:36	Autodesk DocID: 05323007 City of Menomonie Well #9 Well #9/5323007 Menomonie Well STRUCTURE R24.vdt				



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**WELL AND BUILDING
FRAMING PLAN**

PROJECT NO.
05323007.1
SHEET
95S103

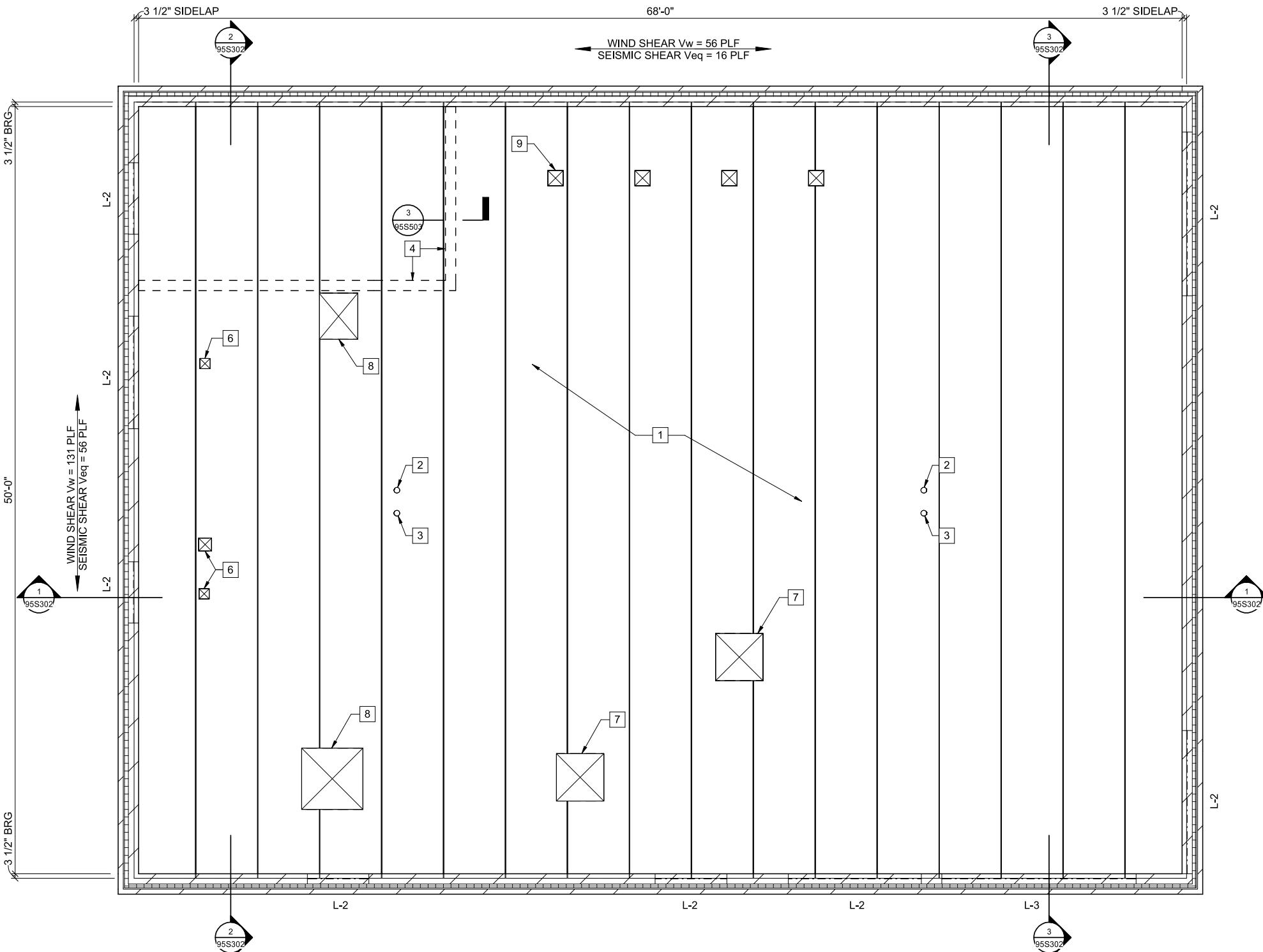
KEYNOTES

1. TYPE 'A' PLANK - SEE PRECAST CONCRETE PLANK SCHEDULE ON SHEET 95S001.
2. ROOF DRAIN - SEE ARCHITECTURAL ROOF PLAN AND PLUMBING FOR LOCATION AND SIZE
3. OVERFLOW ROOF DRAIN - SEE ARCHITECTURAL ROOF PLAN AND PLUMBING FOR LOCATION AND SIZE
4. DASHED LINE INDICATES 8" CMU WALL BELOW
5. 8" CMU BEARING WALL w/ (1) #5 AT 48" OC, TYP VERTICAL WALL REINFORCEMENT
6. OPENING IN PRECAST FOR DUCT. SEE HVAC FOR SIZE AND LOCATION, GROUT CORES SOLID MIN 8" FROM OPEN END
7. OPENING IN PRECAST FOR VENT. SEE PROCESS MECHANICAL FOR SIZE AND LOCATION. GROUT CORES SOLID MIN 8" FROM OPEN END
8. ROOF HATCH - SEE ARCHITECTURAL
9. LIFTING HOOK, TYP. SEE DETAIL 8/95S503. SEE PROCESS MECHANICAL FOR LOCATION.
10. IN-PLANE SHEAR DESIGN LOADS ON PRECAST CONCRETE PLANKS AT CMU WALLS. PRECAST PLANK MANUFACTURER TO DESIGN PLANKS FOR INDICATED LOADS.

V_w = UNFACTORED WIND SHEAR
V_{eq} = UNFACTORED SEISMIC SHEAR

GENERAL FRAMING NOTES

- A. SEE SHEET S001 FOR DESIGN LOADINGS, DESIGN STRESSES, AND SCHEDULES
- B. PROVIDE #5 VERTICAL REINFORCEMENT AS INDICATED AT CMU EXTERIOR BEARING WALLS, UNO. GROUT ALL CELLS SOLID AT REINFORCEMENT. THESE WALLS SHALL BE CONSIDERED THE LATERAL FORCE RESISTING SYSTEM.
- C. CORNER REINFORCING: (1) #5 BAR GROUTED SOLID FULL HEIGHT IN CENTER OF CORE, TYP.
- D. DOOR AND WINDOW WALL OPENING REINFORCING: (1) #5 BAR GROUTED SOLID TO BOTTOM OF LINTEL IN CENTER OF CORE ADJACENT TO WALL OPENING, AND (1) #5 BAR GROUTED SOLID FULL HEIGHT IN CENTER OF ADJACENT CORE, TYP.
- E. CONTROL JOINT REINFORCING: (1) #5 BAR GROUTED SOLID FULL HEIGHT IN CENTER OF CORE ON EACH SIDE OF CMU WALL CONTROL JOINT, TYP.
- F. SEE DETAIL 6/95S501 FOR CMU BOND BEAM AT CONTROL JOINT DETAILING.
- G. EXTEND ALL VERTICAL REINFORCEMENT BARS 6" INTO TOP OF WALL BOND BEAM.
- H. AT INTERIOR CMU PARTITION WALLS PROVIDE TYPICAL TOP OF WALL REINFORCED BOND BEAMS AND WALL REINFORCEMENT AT WALL OPENINGS, LINTELS, WALL CORNERS, AND CONTROL JOINTS.
- I. SEE LINTEL SCHEDULE ON 95S001 FOR LINTELS FOR WALL OPENINGS NOT DEPICTED ON PLAN



FRAMING PLAN

1/4" = 1'-0" (22" x 34") 0 2 4 8
1/8" = 1'-0" (11" x 17")

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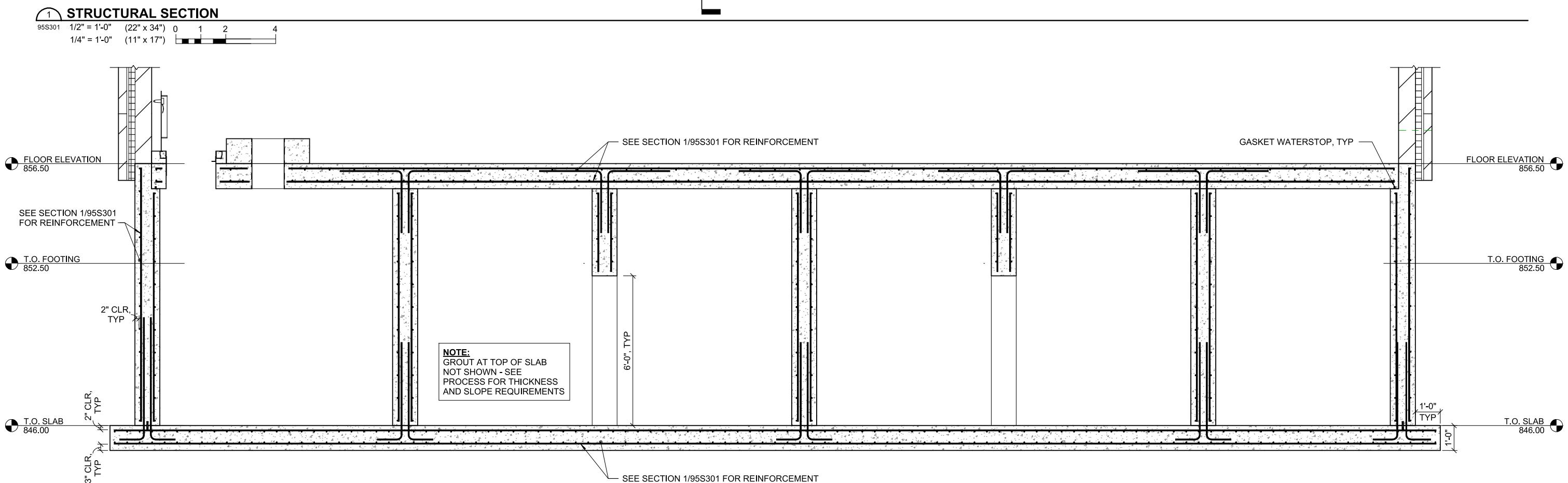
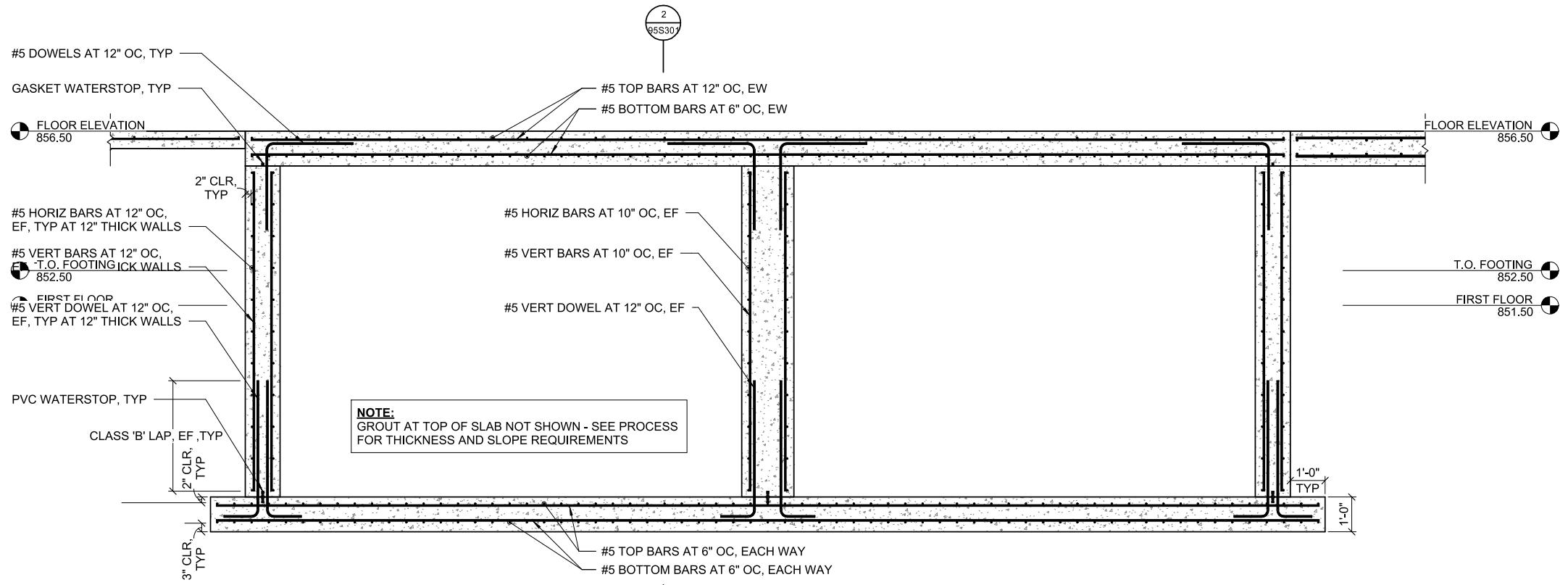


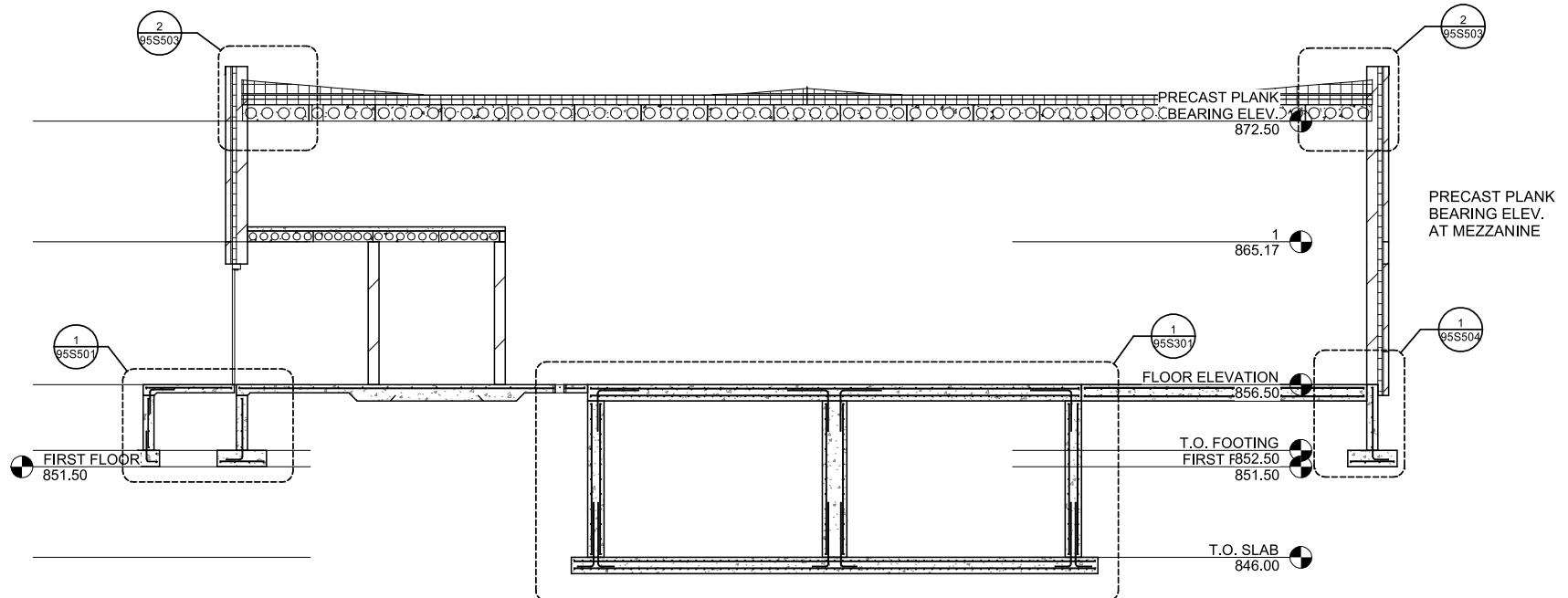
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WELL AND BUILDING
FRAMING PLAN

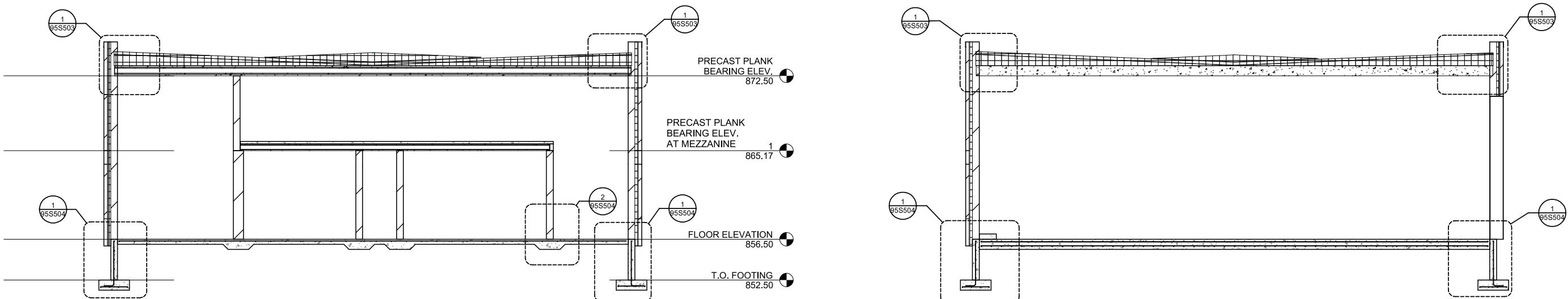
PROJECT NO.
05323007.1
SHEET
95S104





1 STRUCTURAL BUILDING SECTION

95S302 3/16" = 1'-0" (22" x 34") 0 2 4 8 12
3/32" = 1'-0" (11" x 17")



2 STRUCTURAL BUILDING SECTION

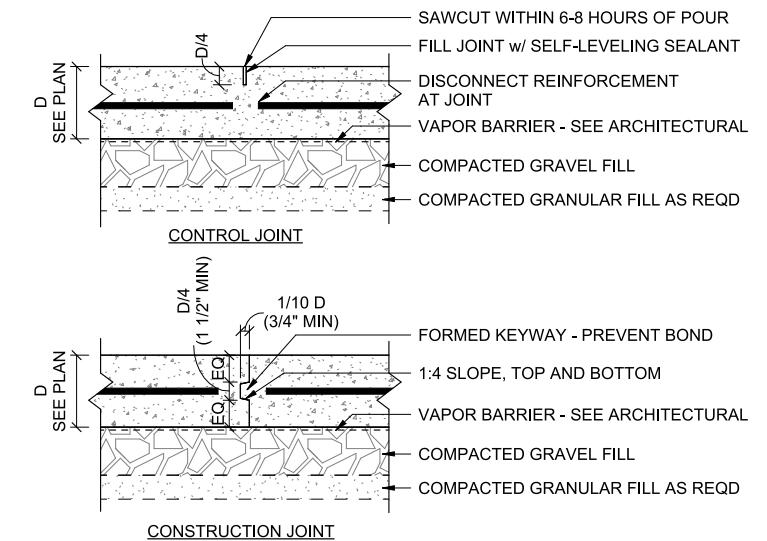
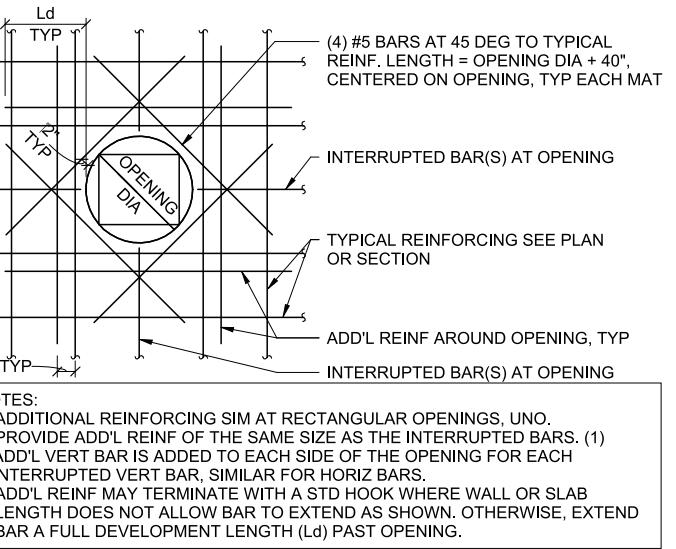
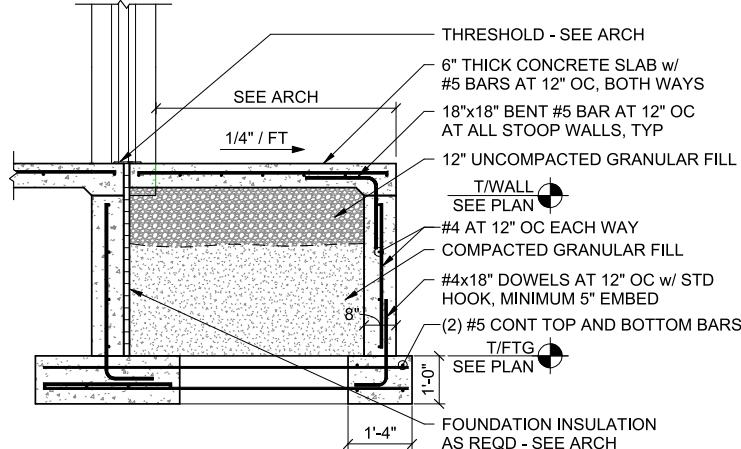
95S302 3/16" = 1'-0" (22" x 34") 0 2 4 8 12
3/32" = 1'-0" (11" x 17")

3 STRUCTURAL BUILDING SECTION

95S302 3/16" = 1'-0" (22" x 34") 0 2 4 8 12
3/32" = 1'-0" (11" x 17")

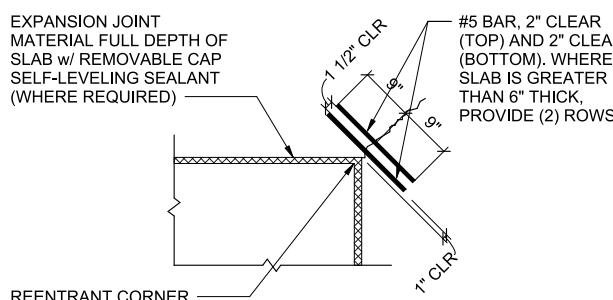
PROJECT DATE:	DEC 23, 2025	DRAWN BY:	JRG	No	DATE	REVISIONS	BY
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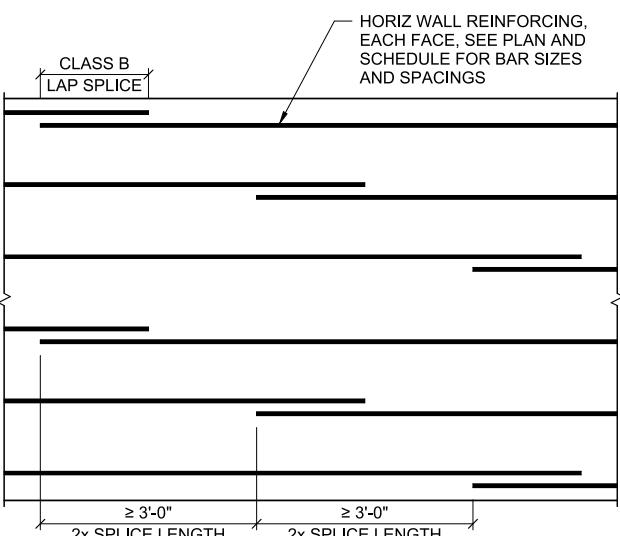
1 STOOP DETAIL

95S501	1/2" = 1'-0" (22" x 34")	0	1	2	4
	1/4" = 1'-0" (11" x 17")				



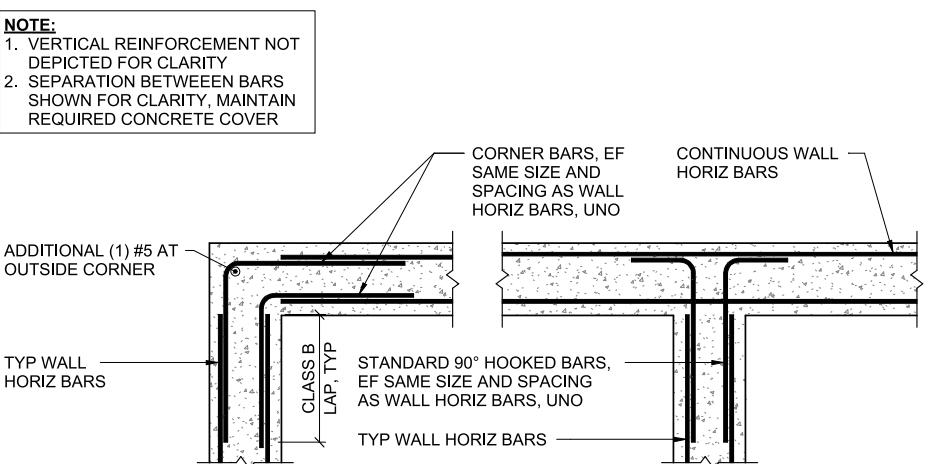
2 ADDITIONAL REINFORCING

95S501 NOT TO SCALE



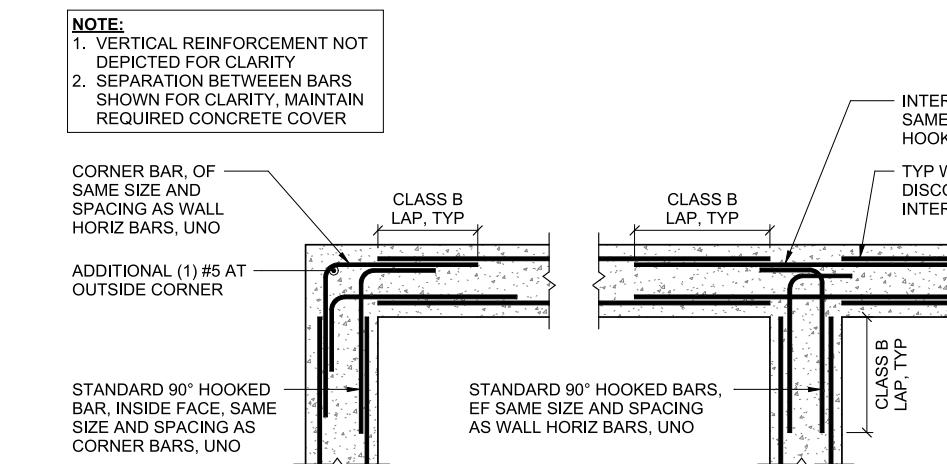
4 TYPICAL SLAB REINF AT REENTRANT CORNER

95S501 NOT TO SCALE



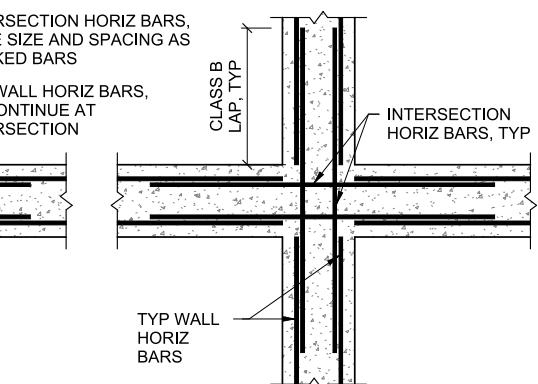
5 TYPICAL HORIZ SPLICE DETAIL

95S501 NOT TO SCALE



6 CONTROL JOINT THROUGH BOND BEAM

95S501 NOT TO SCALE



7 TYP CORNER BAR DETAIL

95S501 NOT TO SCALE

8 TYP CORNER BAR DETAIL - LIQUID RETAINING STRUCTURE

95S501 NOT TO SCALE

REVISIONS			
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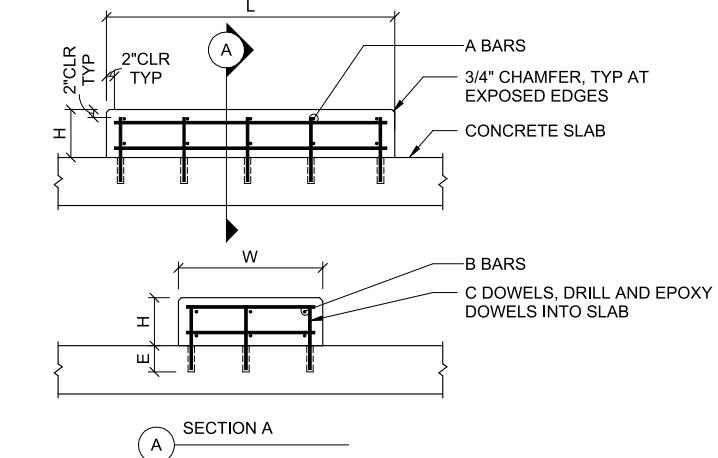
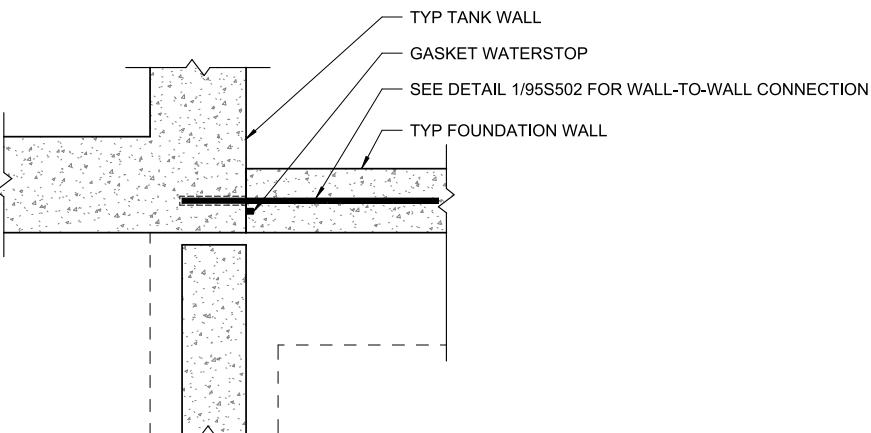
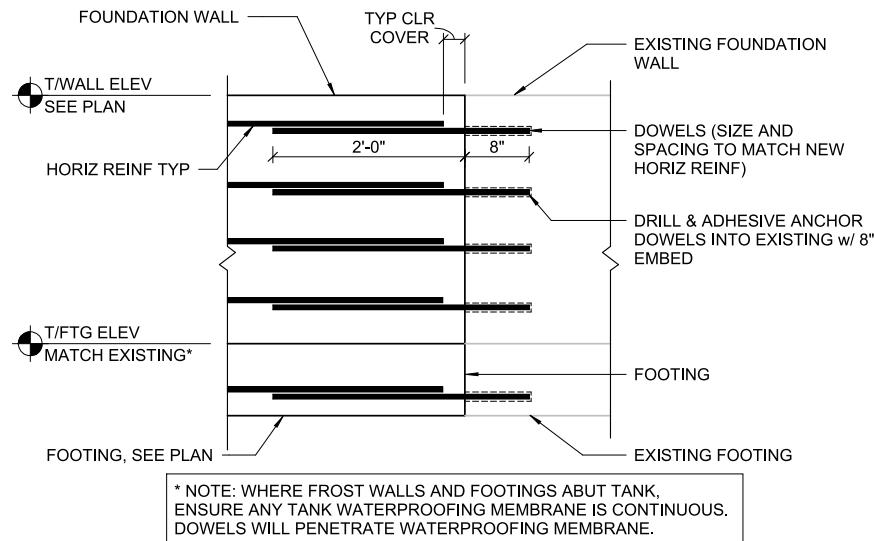
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WELL AND BUILDING STRUCTURAL DETAILS

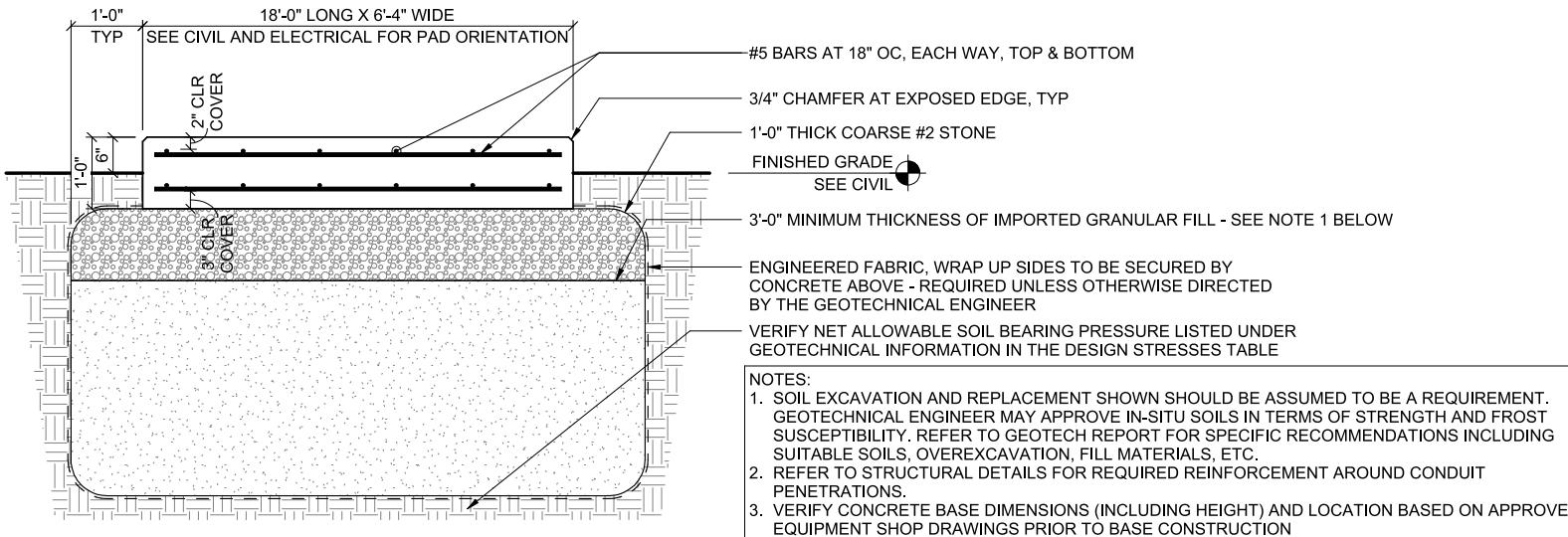
PROJECT NO.
05323007.1

SHEET
95S501



1 CONNECTION TO PREVIOUSLY POURED CONCRETE DETAIL

95S502 NOT TO SCALE

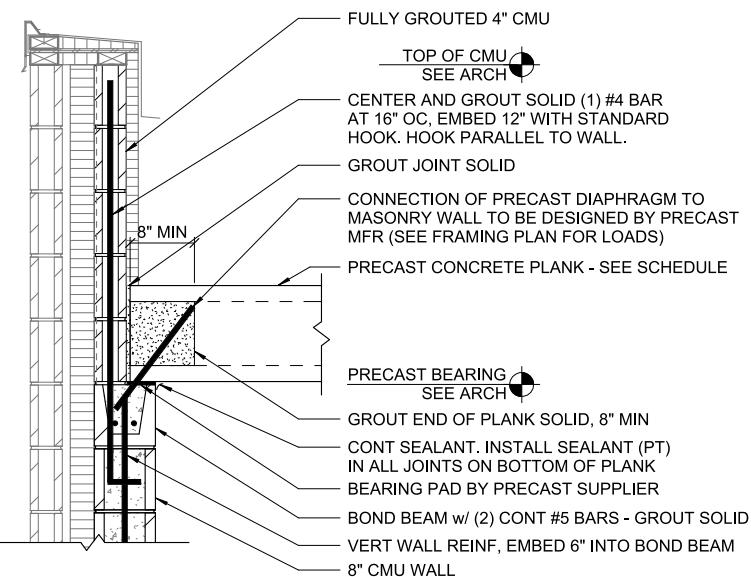


2 FROST WALL TO TANK WALL GASKET DETAIL

95S502 1" = 1'-0" (22" x 34") 0 6" 1' 2"
1/2" = 1'-0" (11" x 17")

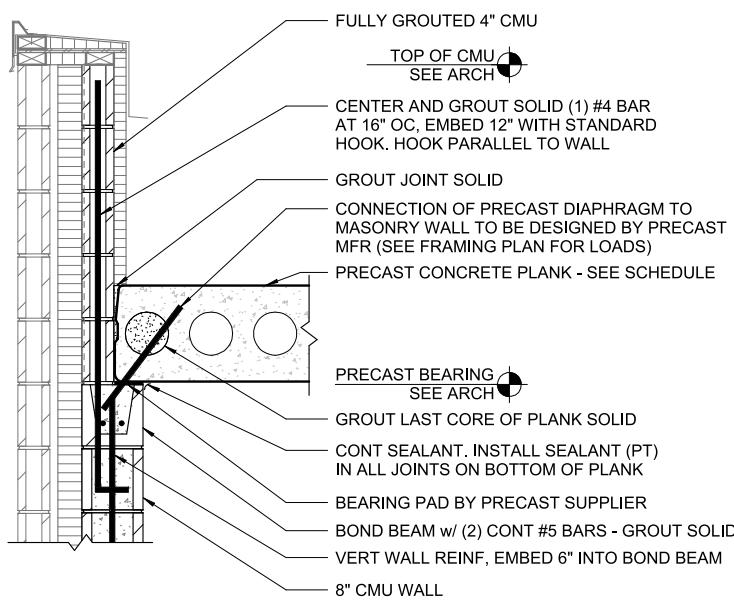
4 GENERATOR PAD DETAIL

95S502 3/4" = 1'-0" (22" x 34") 0 6" 1' 2' 3'
3/8" = 1'-0" (11" x 17")



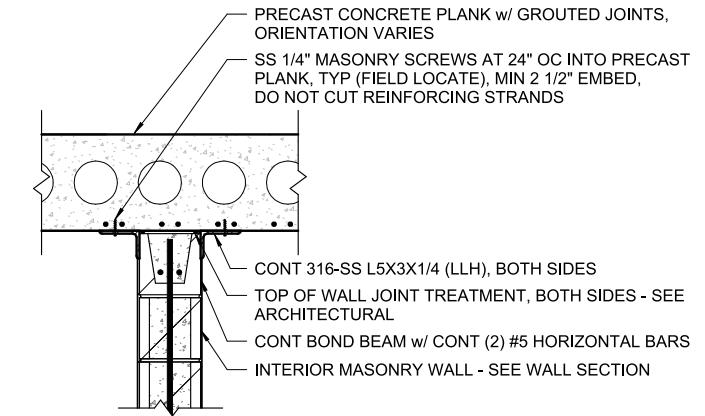
1 PRECAST ROOF PLANK - LOAD BEARING CMU WALL

95S503 1" = 1'-0" (22" x 34") 0 6" 1' 2'
1/2" = 1'-0" (11" x 17")



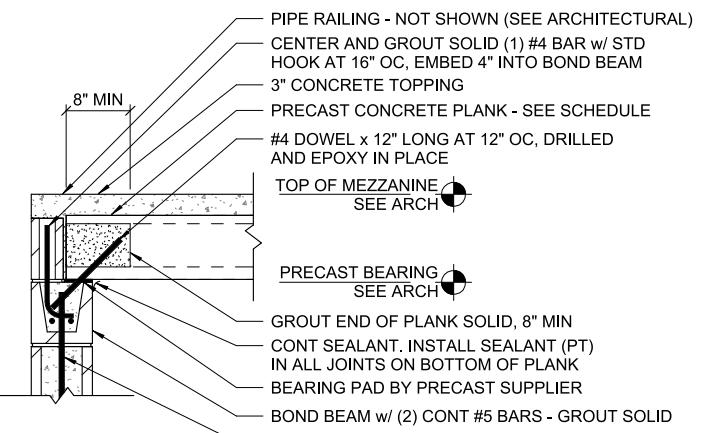
2 PRECAST ROOF PLANK - NON-LOAD BEARING CMU WALL

95S503 1" = 1'-0" (22" x 34") 0 6" 1' 2'
1/2" = 1'-0" (11" x 17")



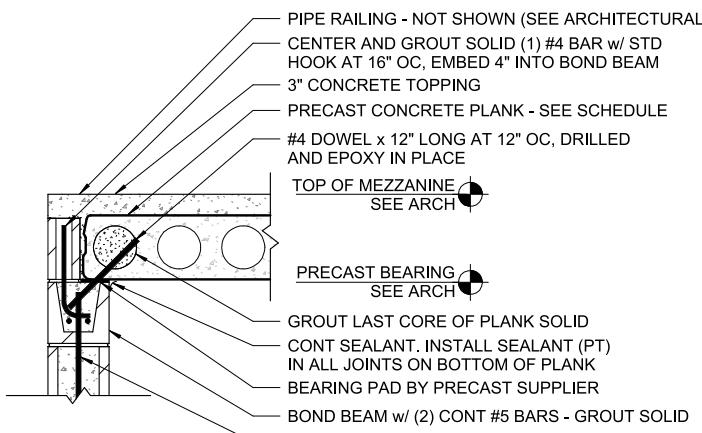
3 TOP OF INTERIOR MASONRY WALL DETAIL

95S503 1" = 1'-0" (22" x 34") 0 6" 1' 2'
1/2" = 1'-0" (11" x 17")



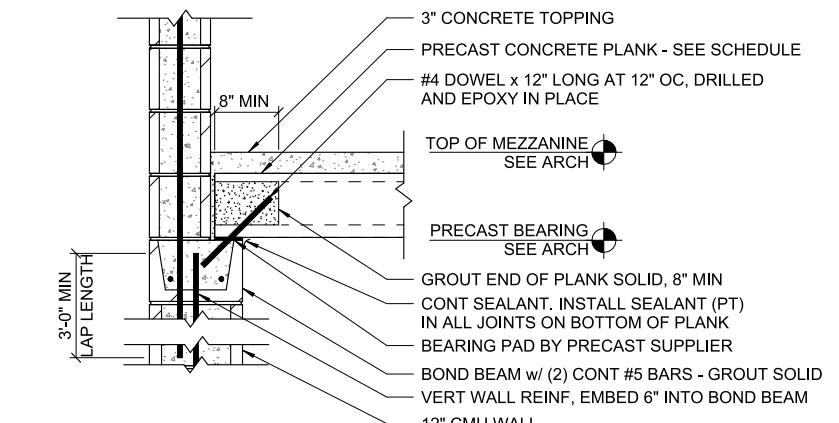
4 PRECAST PLANK - MEZZANINE LOAD BEARING CMU WALL

95S503 1" = 1'-0" (22" x 34") 0 6" 1' 2'
1/2" = 1'-0" (11" x 17")



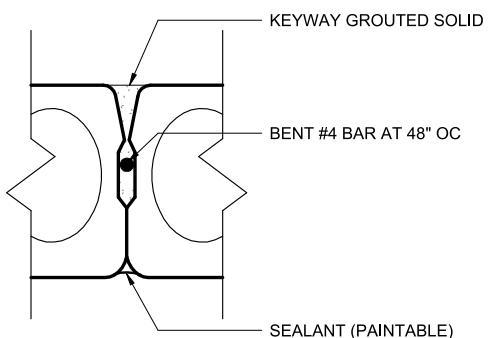
5 PRECAST PLANK - MEZZANINE NON-LOAD BEARING CMU WALL

95S503 1" = 1'-0" (22" x 34") 0 6" 1' 2'
1/2" = 1'-0" (11" x 17")



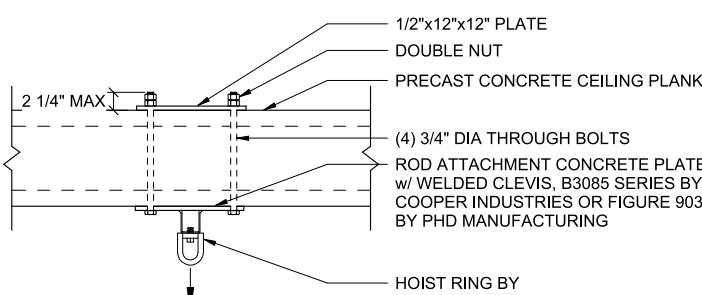
6 PRECAST PLANK - MEZZANINE LOAD BEARING CMU WALL

95S503 1" = 1'-0" (22" x 34") 0 6" 1' 2'
1/2" = 1'-0" (11" x 17")



7 PRECAST PLANK KEYWAY DETAIL

95S503 NOT TO SCALE



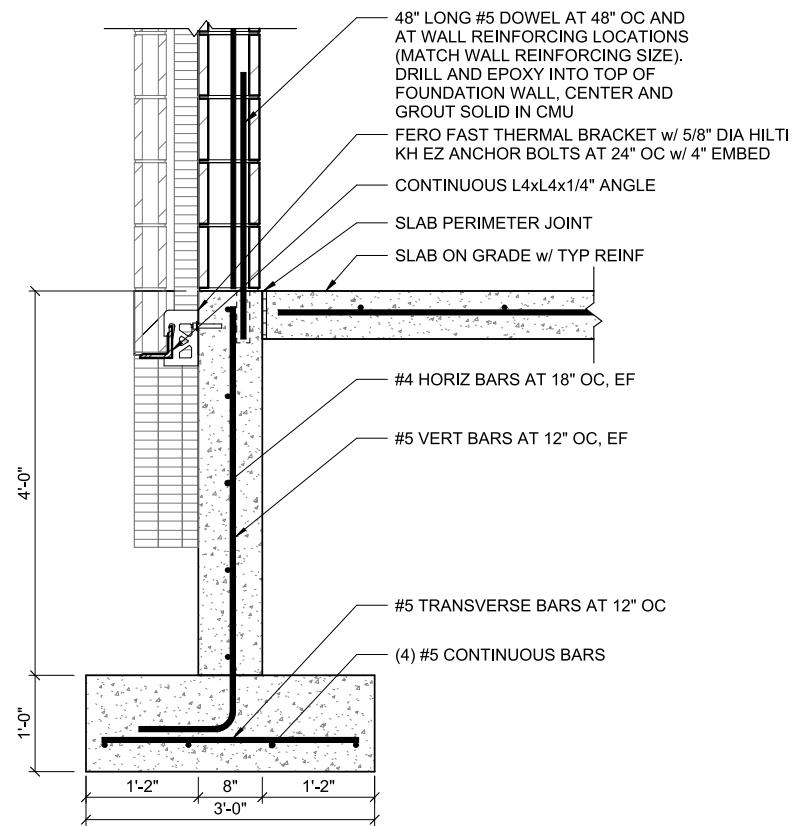
NOTE:
ALL COMPONENTS TO BE TYPE 316 STAINLESS STEEL.
PAINT ASSEMBLY (EXCEPT HOIST RING) AFTER INSTALLATION.

8 LIFTING HOOK DETAIL

95S503 NOT TO SCALE

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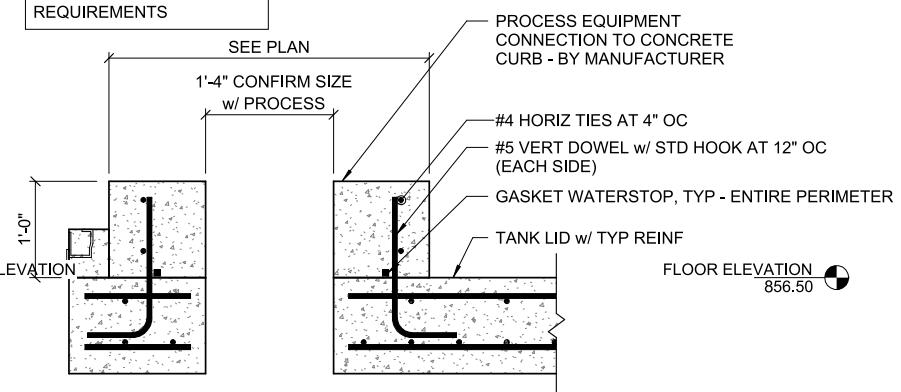




1 FOUNDATION WALL DETAIL

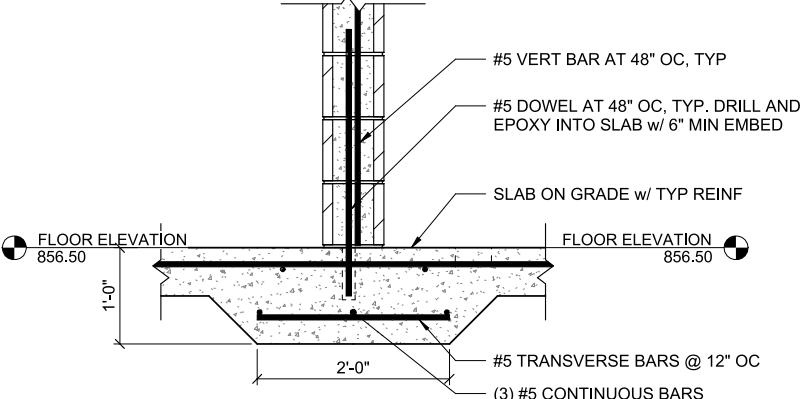
95S504 1" = 1'-0" (22" x 34") 0 6" 1' 2'
1/2" = 1'-0" (11" x 17")

NOTE:
PROCESS EQUIPMENT NOT SHOWN - SEE PROCESS FOR EQUIPMENT INFO AND REQUIREMENTS



4 CONCRETE ISOLATION PAD

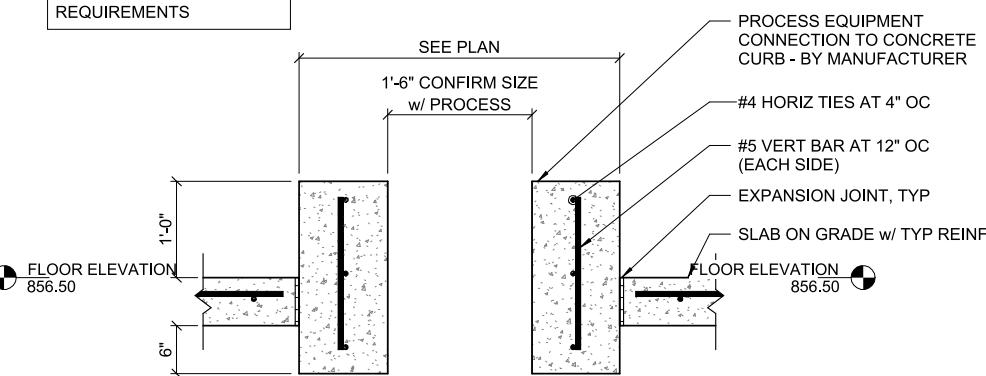
95S504 1" = 1'-0" (22" x 34") 0 6" 1' 2'
1/2" = 1'-0" (11" x 17")



2 THICKENED SLAB AT INTERIOR CMU WALL

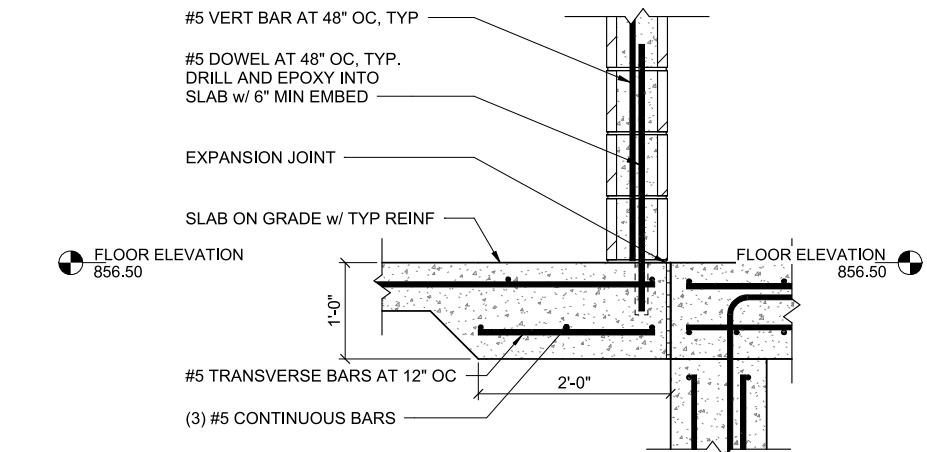
95S504 1" = 1'-0" (22" x 34") 0 6" 1' 2'
1/2" = 1'-0" (11" x 17")

NOTE:
PROCESS EQUIPMENT NOT SHOWN - SEE PROCESS FOR EQUIPMENT INFO AND REQUIREMENTS



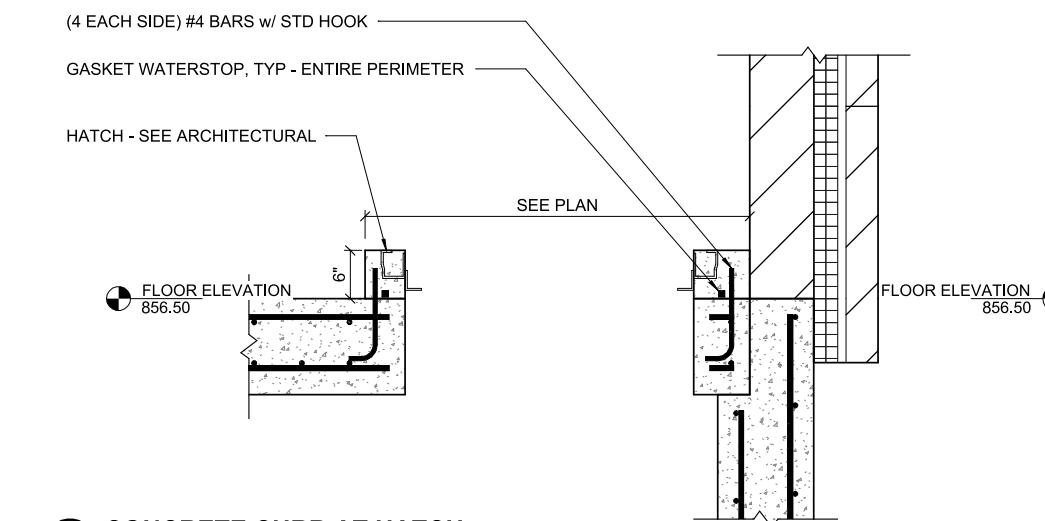
5 CONCRETE ISOLATION PAD

95S504 1" = 1'-0" (22" x 34") 0 6" 1' 2'
1/2" = 1'-0" (11" x 17")



3 THICKENED SLAB AT INTERIOR CMU WALL

95S504 1" = 1'-0" (22" x 34") 0 6" 1' 2'
1/2" = 1'-0" (11" x 17")



6 CONCRETE CURB AT HATCH

95S504 1" = 1'-0" (22" x 34") 0 6" 1' 2'
1/2" = 1'-0" (11" x 17")

CODE DATA AND INFORMATION (2025 WCBC)

BUILDING OCCUPANCY

MAJOR OCCUPANCY: LOW-HAZARD FACTORY INDUSTRIAL F-2

SEPARATED OCCUPANCY: HIGH-HAZARD GROUP H-3

SEPARATED OCCUPANCY: HIGH-HAZARD GROUP H-4

PROJECT CODE BREAKDOWN

TYPE OF CONSTRUCTION: VB

VOLUME > 50,000 CF

	ACTUAL	CODE VALUE	IBC SECTION REFERENCE
BUILDING AREA:	3,722	5,500	506.2
BUILDING HEIGHT:	17'-0"	40'-0"	504.3
NUMBER OF STORIES:	1	2	504.4
OCCUPANT LOAD:			1004.5
INDUSTRIAL AREAS (100):	3*	38	1004.5
SPRINKLER:			903.2
F-2:	NO	NO	903.2.4
H-3:	YES	YES	903.2.5
H-4:	YES	YES	903.2.5
FIRE ALARM***:	YES	YES	907.2.1
FIRE EXTINGUISHER:	<75'-0"		906.3(1)
EXIT SIGN:	YES	YES	1013
COMMON PATH OF EGRESS:		75'-0"	1006.2.1
EXIT ACCESS TRAVEL DISTANCE:		175'-0"	1017.2
PLUMBING FIXTURES:			2902
UNISEX:*			
WATER CLOSET	1	1	2902.1
LAVATORY	1	1	2902.1
DRINKING FOUNTAINS:	0**	1	2902.1
SERVICE SINKS:	1	1	2902.1

REMARKS:

* NO MORE THAN 3 OCCUPANTS AT A TIME

** CUP DISPENSER PROVIDED IN LIEU OF DRINKING FOUNTAIN

***MANUAL PULL STATION

NOTES:
THERE ARE NO WORK AREAS IN THIS BUILDING.
TOILET ROOM HAS BEEN PROVIDED FOR OWNER CONVENIENCE. THE BUILDING IS NOT REQUIRED TO BE ACCESSIBLE.

KEY NOTES

- 1 TANK ACCESS ONLY, TYP.
- 2 MANUAL PULL ALARM STATION W/ PROTECTIVE COVER SURFACE MOUNTED 43" ABOVE FINISHED FLOOR

HAZARDOUS MATERIALS

DEFINITIONS (IBC CHAPTER 2):

TOXIC

- 50 mg/kg < LD50 (ORAL, RAT) < 500 mg/kg
- 200 mg/kg < LD50 (DERMAL, RABBIT) < 1000 mg/kg
- 200 PPM (2 mg/l) < LC50 (INHALE, RAT) < 2000 PPM (20 mg/l)

HIGHLY TOXIC

- LD50 (ORAL, RAT) < 50 mg/kg
- LD50 (DERMAL, RABBIT) < 200 mg/kg
- LC50 (INHALE, RAT) < 200 PPM (2 mg/l)

CORROSIVE

- REQUIRES PERMANENT AND IRREVERSIBLE DAMAGE TO OCCUR PER TEST METHOD DOTn 49 CFR, PART 173. 137:
- DOT "ACUTE DERMAL TOXICITY." LD50 < 1000 mg/kg

CHEMICAL 1 - CHLORINE

NAME: CHLORINE

STATUS: CLOSED SYSTEM

MATERIAL STATE: GAS

AMOUNT IN USE: 900 LB

AMOUNT STORED: 600 LB

TOXICOLOGICAL INFORMATION:

SKIN CORROSION - CATEGORY 1

LC50 INHALATION GAS: 293 PPM

CLASSIFICATION: TOXIC

CHEMICAL 2 - FLUORIDE

NAME: HYDROFLUOSILICIC ACID, 23% SOLUTION

STATUS: CLOSED SYSTEM

MATERIAL STATE: LIQUID

AMOUNT IN USE: 200 GALLONS (2,048 LB)

TOXICOLOGICAL INFORMATION

ARTmix

ORAL: 387.99 mg/kg

DERMAL: 375.00 mg/kg

INHALATION - DUST/MIST: 3.76 mg/l

CLASSIFICATION: TOXIC

CHEMICAL 3 - POTASSIUM PERMANGANATE

NAME: POTASSIUM PERMANGANATE

STATUS: CLOSED SYSTEM

MATERIAL STATE: POWDER, SOLUTION (2%)

AMOUNT STORED: 330 LB (POWDER)

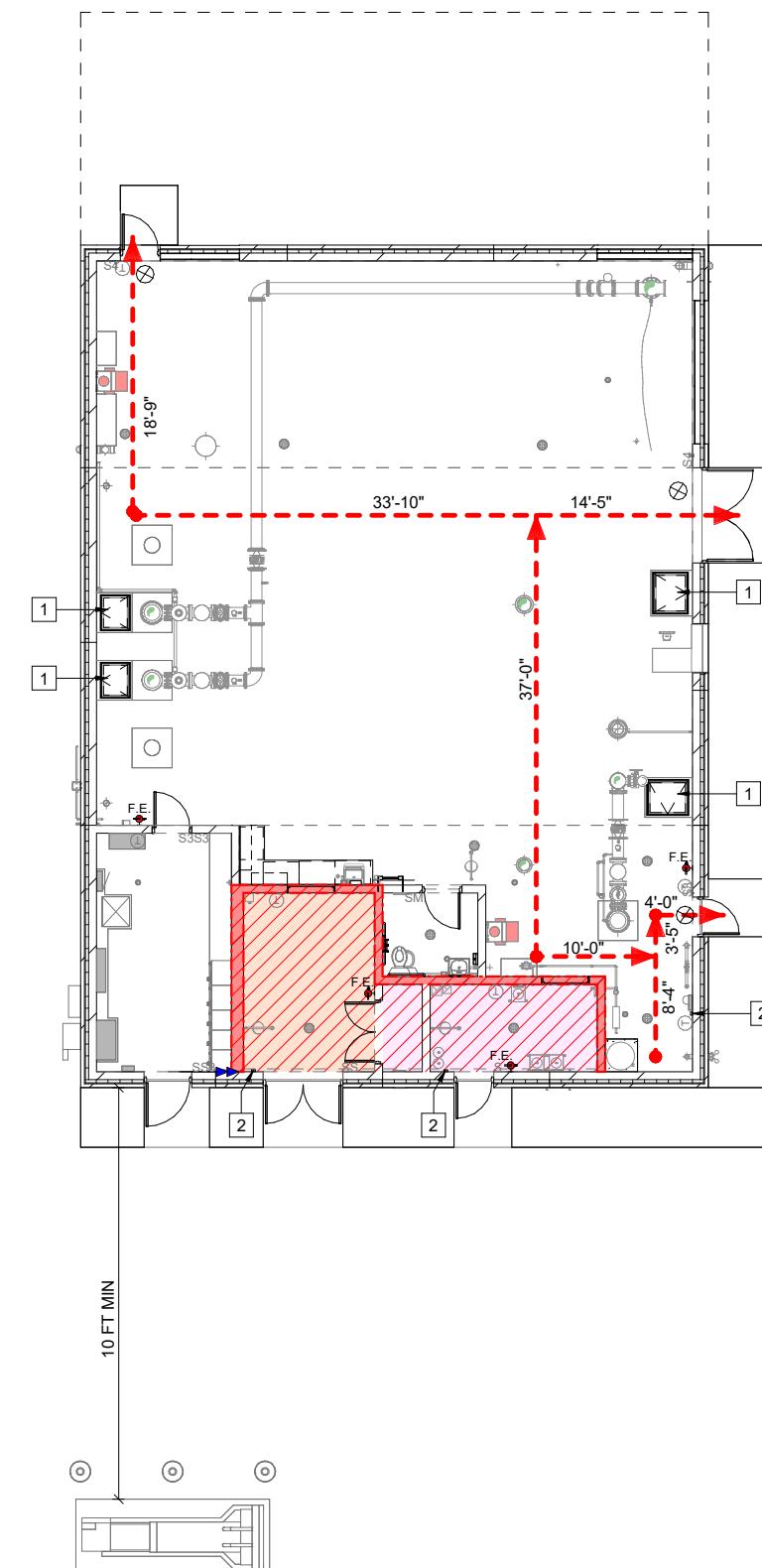
AMOUNT IN USE: 350 LB (SOLUTION)

TOXICOLOGICAL INFORMATION

LD50 DERMAL: 2000 mg/kg

LD50 ORAL: 2000 mg/kg

CLASSIFICATION: CORROSIVE

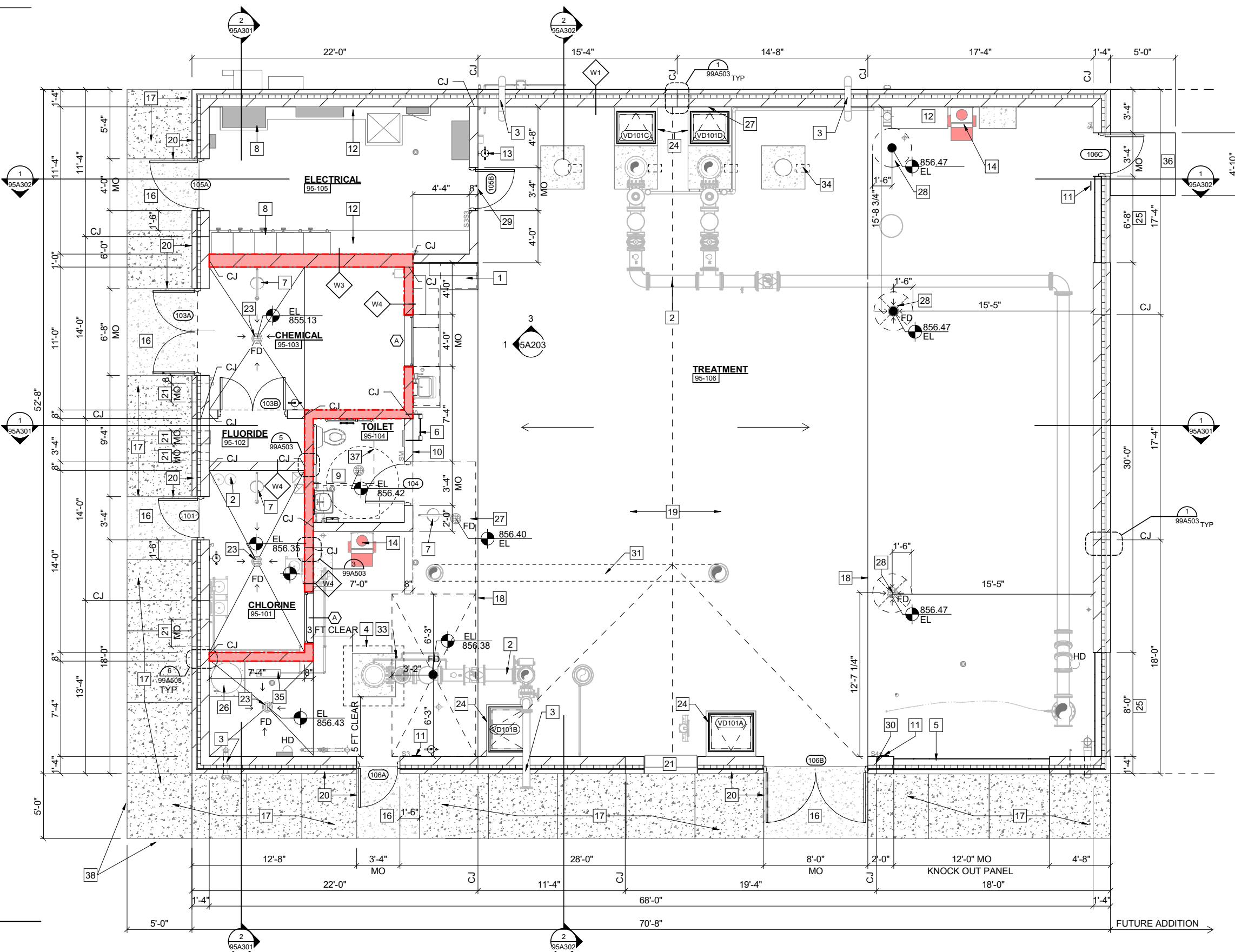


LIFE SAFETY PLAN

1/8" = 1'-0" (22"x34") 0 4 8 16
1/16" = 1'-0" (11"x17")

KEY NOTES

- 1 WORK COUNTER WITH BASE CABINET AND UPPER CABINET - SEE INTERIOR ELEVATIONS
- 2 PROCESS EQUIPMENT OR PIPING, TYP - SEE PROCESS MECHANICAL
- 3 PIPE PENETRATION, TYP - SEE DETAIL 4/99A502 AND 12/99A502
- 4 DASHED LINE INDICATES OPENING ABOVE
- 5 KNOCK OUT PANEL. SEE DETAILS 3/99A505, 4/99A505, & 6/99A505.
- 6 FLOOR/WALL MOUNTED ALUMINUM LADDER - SEE SHEET 95A102
- 7 SAFETY STATION (EMERGENCY DRENCH SHOWER WITH EYE/FACE WASH) - SEE PLUMBING
- 8 ELECTRICAL PANELS TYP - SEE ELECTRICAL
- 9 TOILET STALL - SEE 4/95A203 AND 5/95A203
- 10 WALL MOUNTED ACCESSIBLE TOILET ROOM SIGN - SEE 00A101 GENERAL ACCESSIBILITY GUIDELINE
- 11 WALL MOUNTED TACTILE EXIT SIGN - SEE 00A101 GENERAL ACCESSIBILITY GUIDELINE
- 12 3 1/2" HIGH CONCRETE HOUSEKEEPING PAD BY GC FOR ELECTRICAL EQUIPMENT. PROVIDE 6x6-W2.9xW2.9 WVM AND CHAMFER EXPOSED EDGES. PAD TO EXTEND MAX 4" BEYOND FACE AND EXPOSED END OF ELECTRICAL EQUIPMENT, UNO. VERIFY FINAL SIZE REQUIRED w/ EQUIPMENT MANUFACTURER'S APPROVED SHOP DRAWINGS.
- 13 FIRE EXTINGUISHER ON WALL BRACKET, TYP
- 14 DEHUMIDIFIER - SEE HVAC
- 15 6" HIGH CONCRETE HOUSEKEEPING PAD BY GC FOR PROCESS EQUIPMENT. PROVIDE 6x6-W2.9xW2.9 WVM AND CHAMFER EXPOSED EDGES. PAD TO EXTEND MAX 4" BEYOND FACE AND EXPOSED END OF ELECTRICAL EQUIPMENT, UNO. VERIFY FINAL SIZE REQUIRED w/ EQUIPMENT MANUFACTURER'S APPROVED SHOP DRAWINGS.
- 16 CONCRETE STOOP - SEE FOUNDATION PLAN
- 17 6" THICK CONCRETE SIDEWALK ON MIN 6" COMPACTED GRAVEL BASE AND COMPACTED GRANULAR FILL w/ BROOM FINISH AND TOOLED CONTROL JOINTS AS SHOWN. SLOPE AWAY FROM BUILDING OR EQUIPMENT PAD, CROSS SLOPE MAX 1:50, RUNNING SLOPE MAX 1:20. SEE DETAIL 6/99A504
- 18 FLOOR EXPANSION JOINT COVER FOR JOINT BETWEEN EDGE OF TANK LID AND FLOOR SLAB.
- 19 CAST-IN-PLACE CONCRETE TANKS BELOW FLOOR IN THIS AREA. TOP OF TANK SHALL SLOPE AT 1/4" PER 1'. TOP OF SLAB SHALL BE FLUSH w/ SLAB AT NORTH AND SOUTH EDGES
- 20 1/2" EXPANSION JOINT MATERIAL w/ REMOVABLE CAP AND SELF-LEVELING SEALANT BETWEEN EDGE OF SIDEWALK AND BUILDING OR STOOP FOUNDATION, TYP
- 21 WALL OPENING ABOVE FOR LOUVER, TYP - SEE DETAIL 7/99A502, 11/99A502 & HVAC
- 22 FLOOR DRAIN, TYP - SEE PLUMBING. SLOPE FLOOR IN AREA SHOWN TOWARD FLOOR DRAIN.
- 23 RAISED FLOOR HATCH ON CONCRETE CURB FOR TANK ACCESS - SEE ACCESS HATCH SCHEDULE
- 24 FUTURE OPENING - SEE DETAILS 7/99A505, 8/99A505 & 9/99A505.
- 25 PROVIDE A 3 1/2" HIGH CONCRETE HOUSEKEEPING PAD. EXPANSION JOINT AND SEALANT BETWEEN PAD AND WALL. FINAL SIZE TO BE COORDINATED WITH PLUMBING. WATER HEATER W/ 3 1/2" HIGH CONCRETE HOUSEKEEPING PAD BY GC. - SEE PLUMBING
- 26 SLOPE FLOOR IN 6'-0" WIDE AREA. CENTER FLOOR DRAIN IN THE AREA AND SLOPE FOUR SIDES TO DRAIN.
- 27 SLOPE FLOOR IN 3'-0" AREA TOWARD FLOOR DRAIN. SEE FLOOR PLAN FOR DRAIN ELEVATION.
- 28 COORDINATE DOOR INSTALLATION WITH EXPANSION JOINT COVER LOCATION
- 29 MASONRY WALL CONTROL JOINT ABOVE - SEE EXTERIOR ELEVATIONS AND DETAIL 4/99A503
- 30 FUTURE PROCESS PIPING.
- 31 NOT USED
- 32 HUB DRAIN FOR AIR RELEASE VALVE, COORDINATE LOCATION WITH PROCESS AND PLUMBING
- 33 LOAD CAPACITY SIGN MOUNTED TO CEILING NEAR LIFTING HOOK, TYP - SEE STRUCTURAL FOR LOAD CAPACITY.
- 34 SPRINKLER SYSTEM LOCATION.
- 35 FLOATING STOOP SLAB, SEE DETAIL 4/99A501
- 36 DASHED AREAS SHOWING ACCESSIBILITY CLEARANCE - FOR GRAPHIC PURPOSES ONLY, SEE GENERAL ACCESSIBILITY GUIDELINES
- 37 PAVEMENT SHALL BE FLUSH W/ TOP OF CONCRETE SIDEWALKS AND STOOPS, TYP

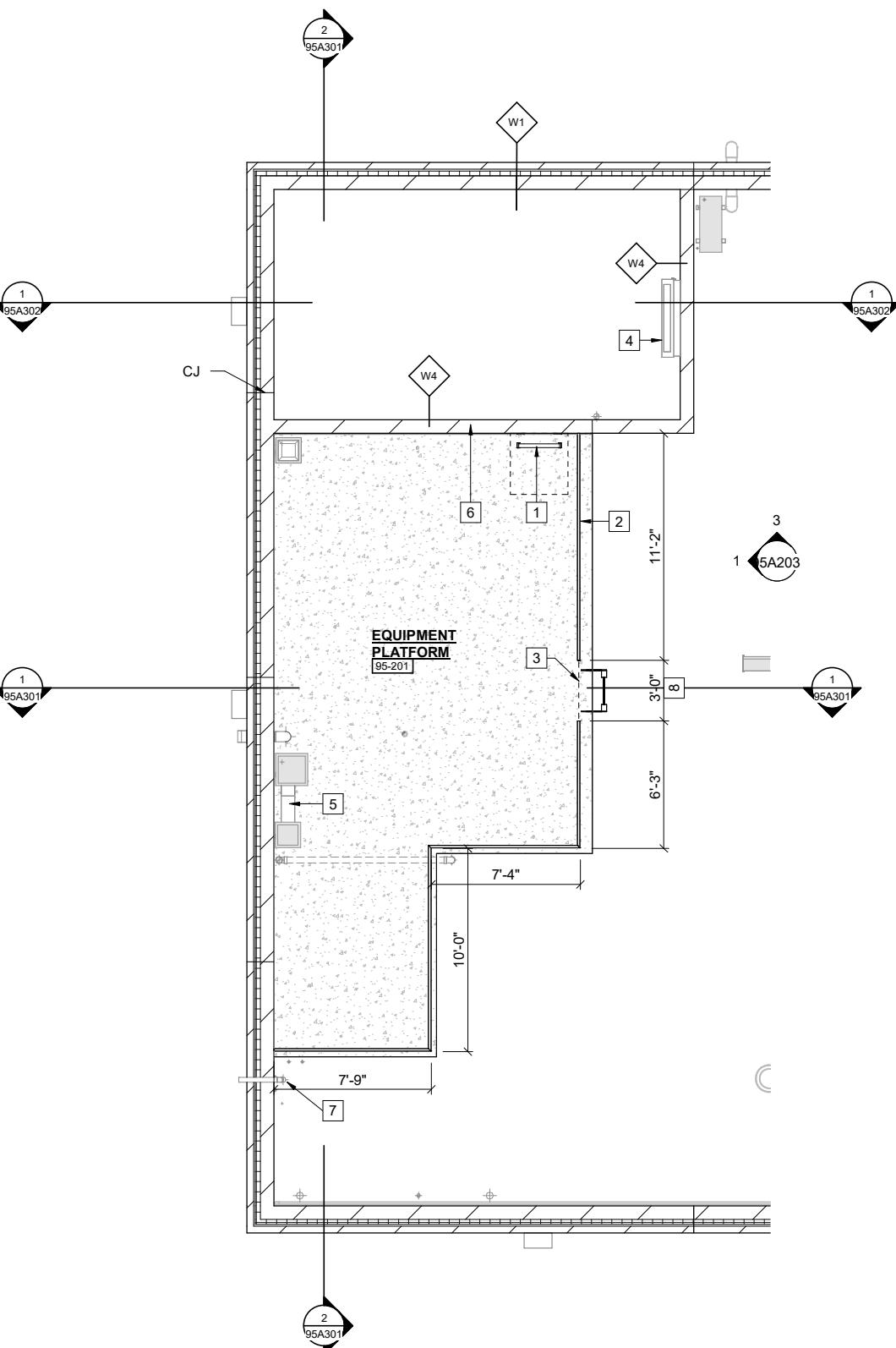


GENERAL NOTES

- A. REFER TO SHEET 00A101 FOR ARCHITECTURAL GENERAL NOTES.
- B. FOR ALL INTERIOR PIPE PENETRATIONS, SEE DETAIL 8/99A502

KEY NOTES

- 1 FLOOR/WALL MOUNTED ALUMINUM LADDER BELOW ROOF HATCH. PROVIDE SAFETY POST AT TOP. SEE DETAILS 7/99A504, 5/99A505. DASHED LINE INDICATES LOCATION OF THE HATCH OPENING ABOVE.
- 2 FLOOR MOUNTED ALUMINUM GUARDRAIL ENTIRE EXTERIOR PERIMETER OF PLATFORM. AT BOTH ENDS OF THE RAILING, GAP BETWEEN RAILING AND WALL SHALL BE 4" MAX. , TYP - SEE INTERIOR ELEVATIONS SHEET 1/95A203
- 3 REMOVABLE SAFETY CHAIN ACROSS TOP OF LADDER. SEE DETAIL 5/99A501
- 4 ROOM AIR CONDITIONING UNIT - SEE HVAC
- 5 DUCTWORK, TYP - SEE HVAC
- 6 PROVIDE AN EQUIPMENT PLATFORM LOAD CAPACITY SIGN WHERE SIGN WILL NOT BE CONCEALED, MOUNT AT 4'-0" AFF. CONFIRM LOAD CAPACITY w/ STRUCTURAL.
- 7 PIPE PENETRATION,TYP - SEE DETAIL 4/99A502 AND 12/99A502
- 8 FLOOR/WALL MOUNTED ALUMINUM LADDER , CENTER LADDER ON OPENING - SEE DETAIL 8/99A504



EQUIPMENT PLATFORM

1/4" = 1'-0" (22"x34") 0 2 4 8
1/8" = 1'-0" (11"x17")

PROJECT DATE:	DRAWN BY:		No	DATE	REVISIONS		BY			
	DESIGNED BY:									
	CHECKED BY:									
12/22/2025	DEC 23, 2025	CKW								
		XL								
		CJW								



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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WI

**WELL AND BUILDING
FLOOR PLAN - EQUIPMENT PLATFORM**

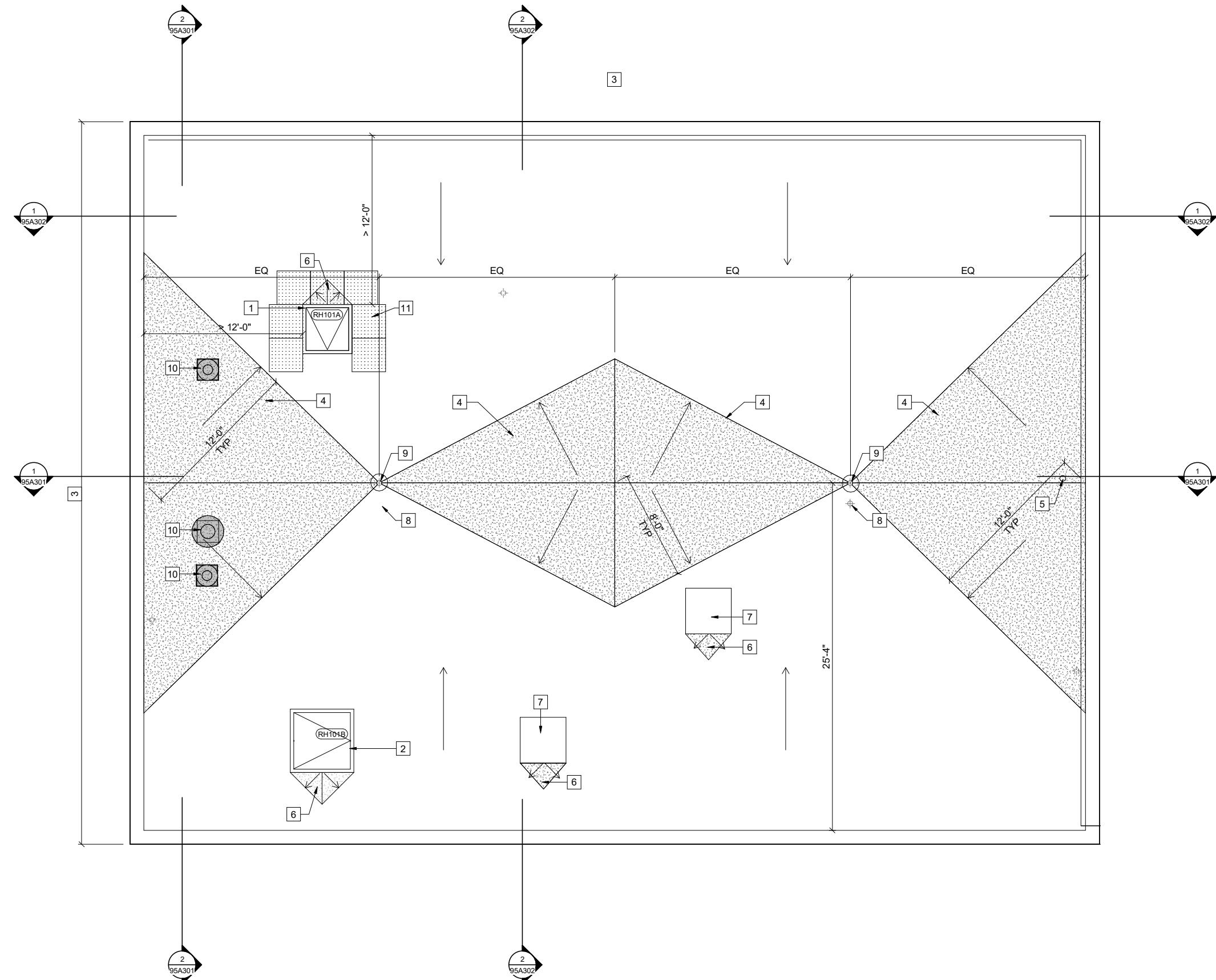
PROJECT NO.
05323007.1
SHEET
95A102

KEY NOTES

- PREFABRICATED ROOF ACCESS HATCH W/ INTEGRAL CURB. SEE DETAIL 1/99A504.
- PREFABRICATED ROOF ACCESS HATCH W/ INTEGRAL CURB, FOR REMOVAL OF WELLHEAD AND MOTOR BELOW. CENTERED ABOVE THE WELLHEAD, CONTRACTOR NEEDS TO COORDINATE THIS OPENING W/ PROCESS MECHANICAL. SEE DETAIL 1/99A504.
- PREFINISHED ROOF EDGE/FASCIA AROUND ENTIRE ROOF EDGE
- ROOF SADDLE.
- PLUMBING VENT TERMINAL, TYP - SEE PLUMBING. PREFABRICATED BOOT FLASHING w/ SS BANDING CLAMP AND MASTIC AT TOP PERIMETER BY ROOFING CONTRACTOR. AT LEAST 12" CLEAR FROM THE WALL FOR THE FLASHING. SEE DETAIL 5/99A504
- CRICKET BY ROOFING CONTRACTOR
- INSULATED CURB FOR FUTURE VENT HOOD - SEE HVAC AND DETAIL 1/99A504. SEAL AND INSULATE TOP OF CURB AND PROVIDE ALUMINUM COVER. CURB AND COVER SHALL BE PROVIDED BY HVAC CONTRACTOR, AND INSTALLED BY ROOF CONTRACTOR.
- OVERFLOW ROOF DRAIN W/ MIN 2" HIGH INTERNAL WATER DAM BY PLUMBING CONTRACTOR. SEE PLUMBING AND DETAIL 7/99A503 SIM.
- ROOF DRAIN - BY PLUMBING CONTRACTOR - SEE PLUMBING AND DETAIL 7/99A503.
- PREFINISHED METAL HOOD (REQUIRES NO MAINTENANCE) BY HVAC CONTRACTOR. FABRICATED, INSULATED UNFINISHED CURB FURNISHED BY HVAC CONTRACTOR, INSTALLED BY ROOF CONTRACTOR. - SEE DETAIL 2/99A504(SIM)
- WALKWAY PADS

ROOFING DESCRIPTION

- PRECAST ROOF CONCRETE HOLLOW CORE PLANK W/ GROUTED JOINTS - SEE STRUCTURAL
- FULLY ADHERED MEMBRANE ROOFING SYSTEM
 - (1) LAYER OF 2" THICK FLAT ROOF BOARD INSULATION (R-12) STAGGER JOINTS BETWEEN LAYERS.
 - (1) LAYER OF TAPERED ROOF BOARD INSULATION @ 1/2"/1'-0" W/ MINIMUM 1/2" EDGE THICKNESS (AVERAGE R-29.25). STAGGER JOINTS FROM LAYER BELOW.
 - SADDLES WHERE SHOWN. (2) LAYERS OF TAPERED BOARD INSULATION @ 1/2"/1'-0" FOR A TOTAL SLOPE OF 1"/1'-0" (BOTTOM LAYER SHALL HAVE 0" EDGE THICKNESS).



ROOF PLAN

1/4" = 1'-0" (22" x 34") 0 2 4 8
1/8" = 1'-0" (11" x 17")

PROJECT DATE:	DEC 23, 2025	DRAWN BY:	CKW	No	DATE	REVISIONS	BY
DESIGNED BY:	XL						
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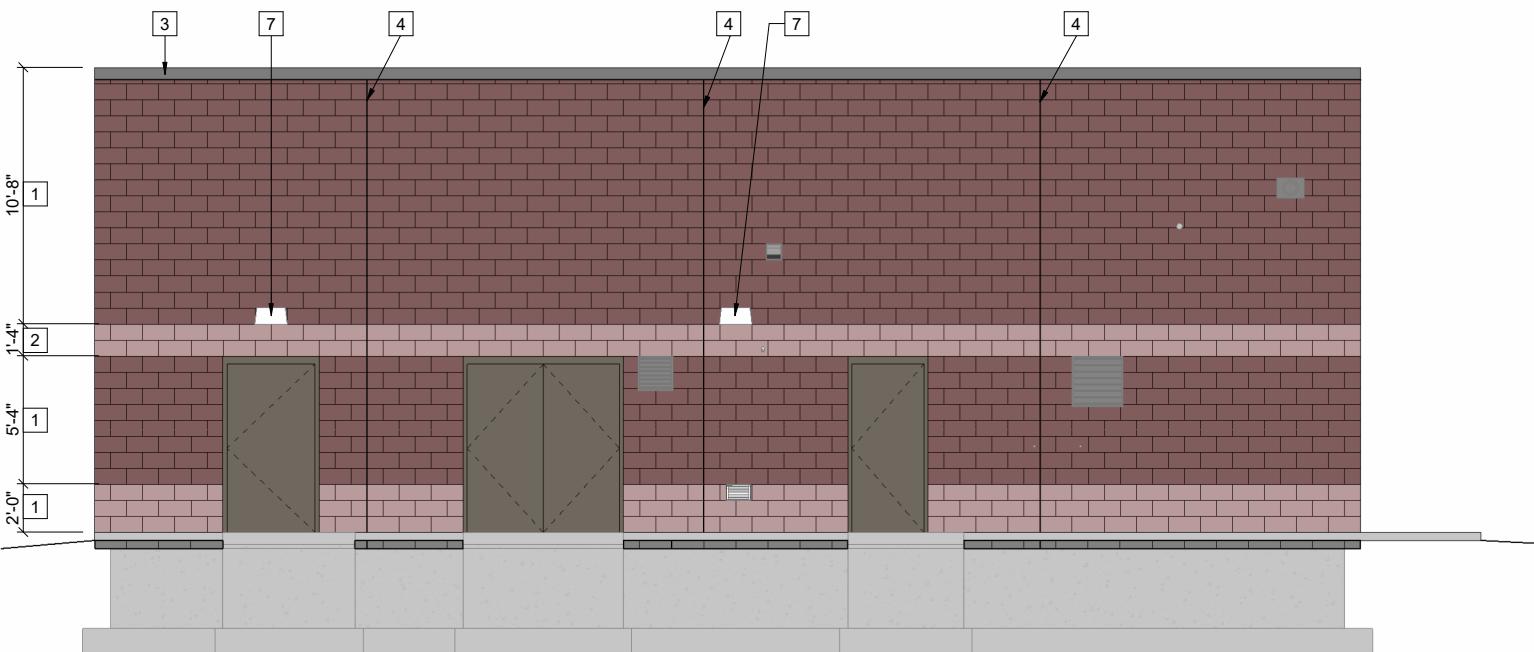
WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WI

**WELL AND BUILDING
ROOF PLAN**

PROJECT NO.
05323007.1
SHEET
95A103

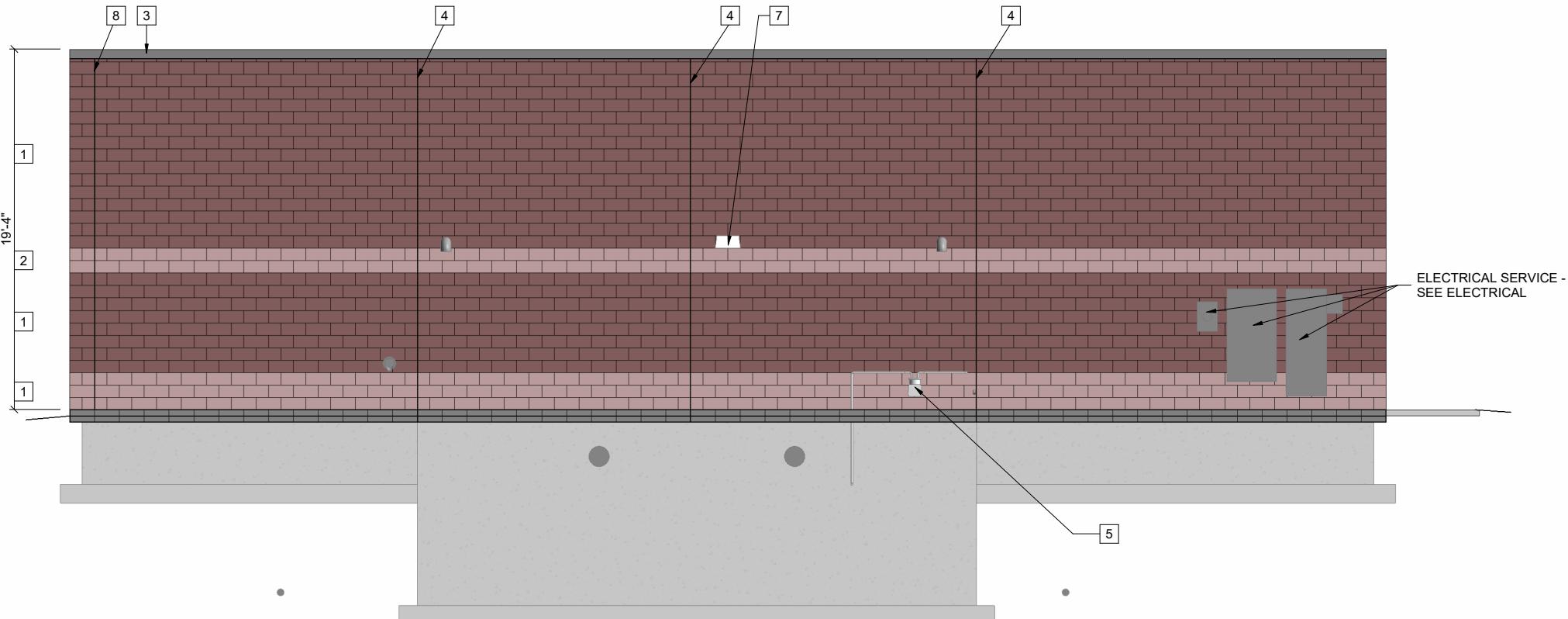
KEY NOTES #

- 1 DECORATIVE CMU TYPE 1
- 2 DECORATIVE CMU TYPE 2
- 3 PREFINISHED ALUMINUM FASCIA
- 4 MASONRY WALL CONTROL JOINT FULL HEIGHT, UNO
- 5 GAS SERVICE - SEE PLUMBING. EXTERIOR PIPE TO BE PAINTED.
- 6 PREFINISHED LOUVER - SEE MECHANICAL
- 7 PREFINISHED LIGHT FIXTURE, TYP
- 8 VENEER CONTROL JOINT - SEE SHEET 95A101



1 SOUTH EXTERIOR BUILDING ELEVATION

95A201 1/4" = 1'-0" (22"x34") 0 2 4 8
1/8" = 1'-0" (11"x17")

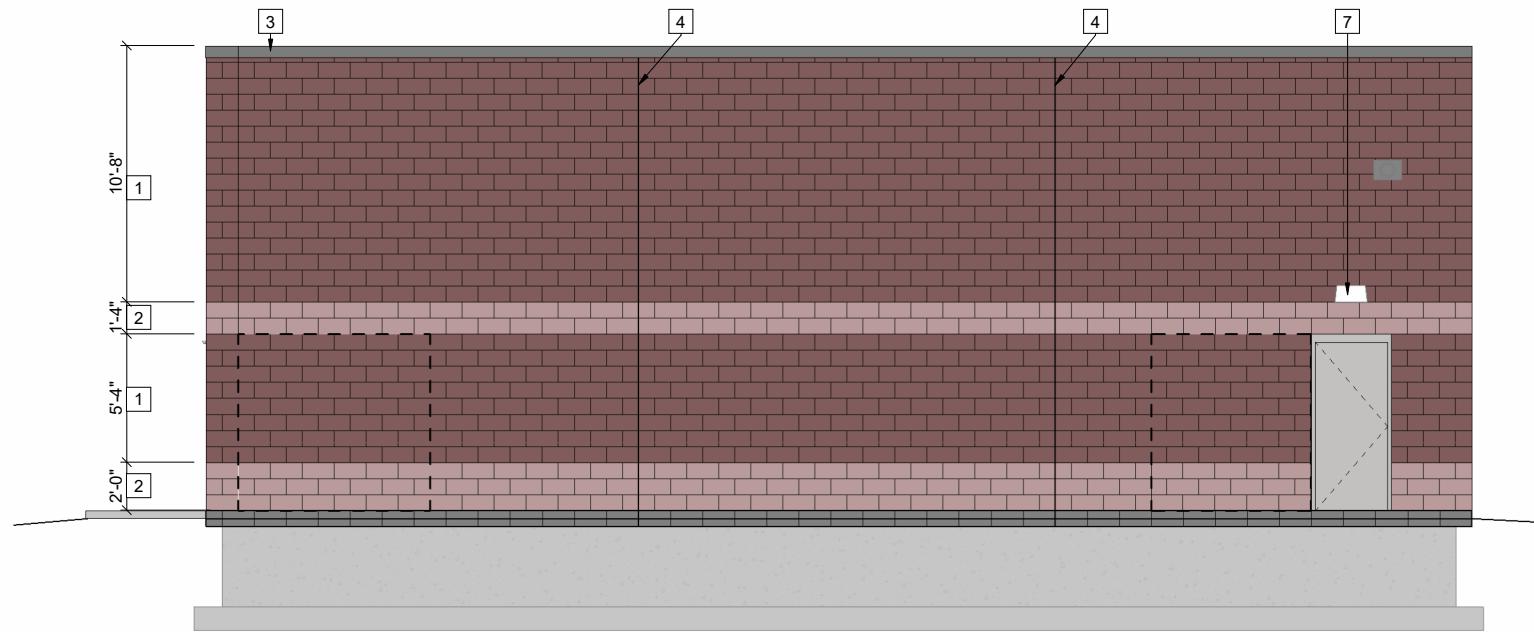


2 WEST EXTERIOR BUILDING ELEVATION

95A201 1/4" = 1'-0" (22"x34") 0 2 4 8
1/8" = 1'-0" (11"x17")

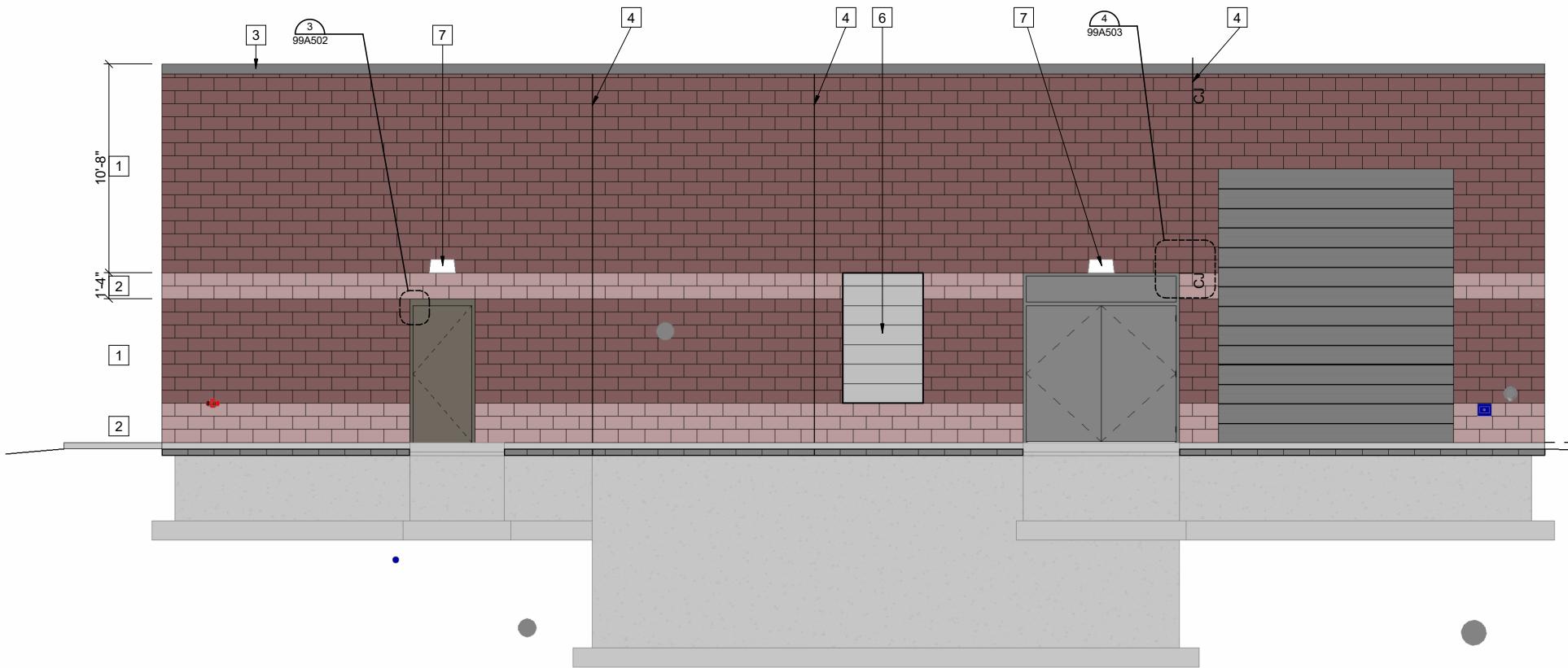
KEY NOTES #

- 1 DECORATIVE CMU TYPE 1
- 2 DECORATIVE CMU TYPE 2
- 3 PREFINISHED ALUMINUM FASCIA
- 4 MASONRY WALL CONTROL JOINT FULL HEIGHT, UNO
- 5 GAS SERVICE - SEE PLUMBING. EXTERIOR PIPE TO BE PAINTED.
- 6 PREFINISHED LOUVER - SEE MECHANICAL
- 7 PREFINISHED LIGHT FIXTURE, TYP
- 8 VENEER CONTROL JOINT - SEE SHEET 95A101



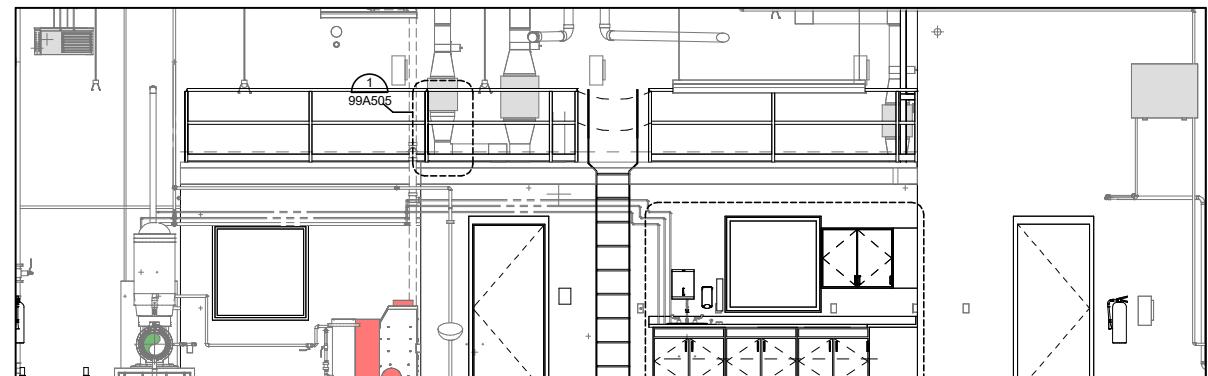
NORTH EXTERIOR BUILDING ELEVATION

95A202 1/4" = 1'-0" (22"x34") 0 2 4 8
1/8" = 1'-0" (11"x17")



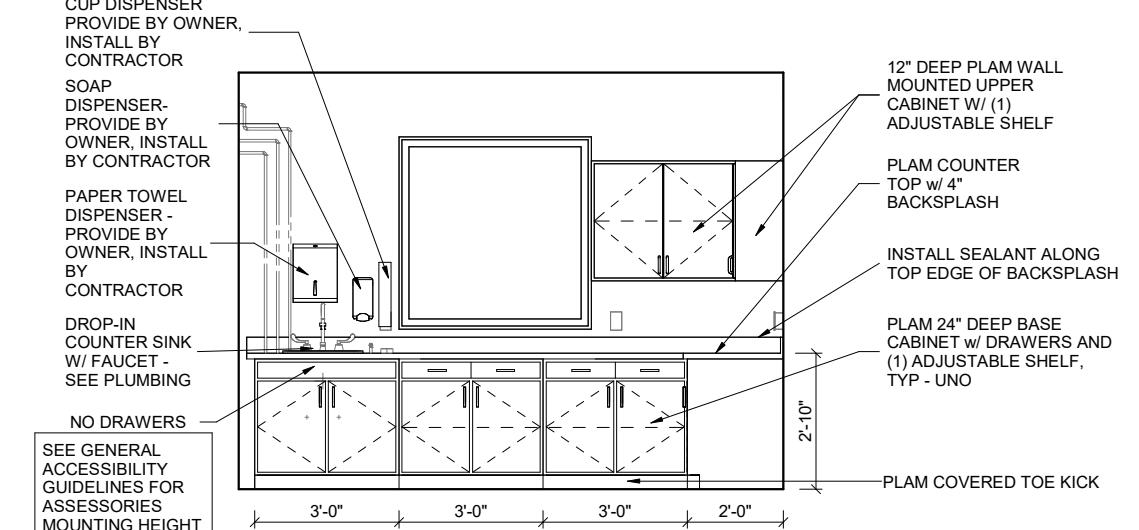
EAST EXTERIOR BUILDING ELEVATION

95A202 1/4" = 1'-0" (22"x34") 0 2 4 8
1/8" = 1'-0" (11"x17")



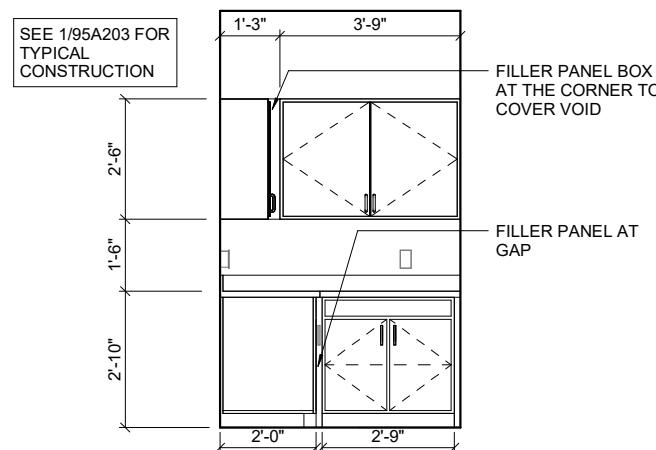
1 INTERIOR ELEVATION LOOKING SOUTH

95A203 1/4" = 1'-0" (22"x34") 0 2 4 8
1/8" = 1'-0" (11"x17")



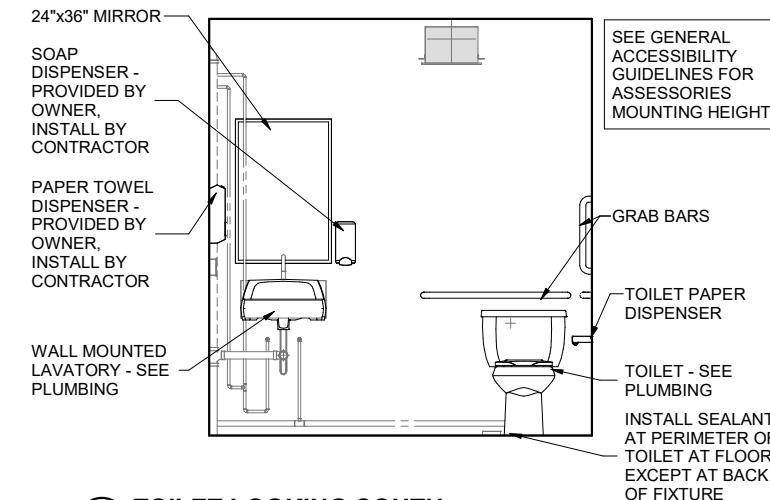
2 TREATMENT WORK STATION LOOKING SOUTH

95A203 1/2" = 1'-0" (22"x34") 0 1 2 4
1/4" = 1'-0" (11"x17")



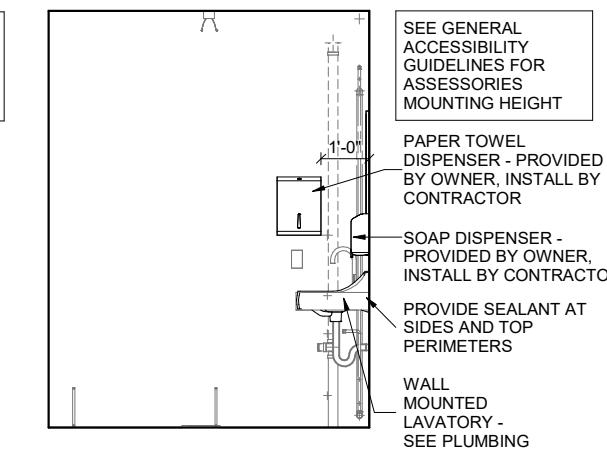
3 TREATMENT WORK STATION LOOKING WEST

95A203 1/2" = 1'-0" (22"x34") 0 1 2 4
1/4" = 1'-0" (11"x17")



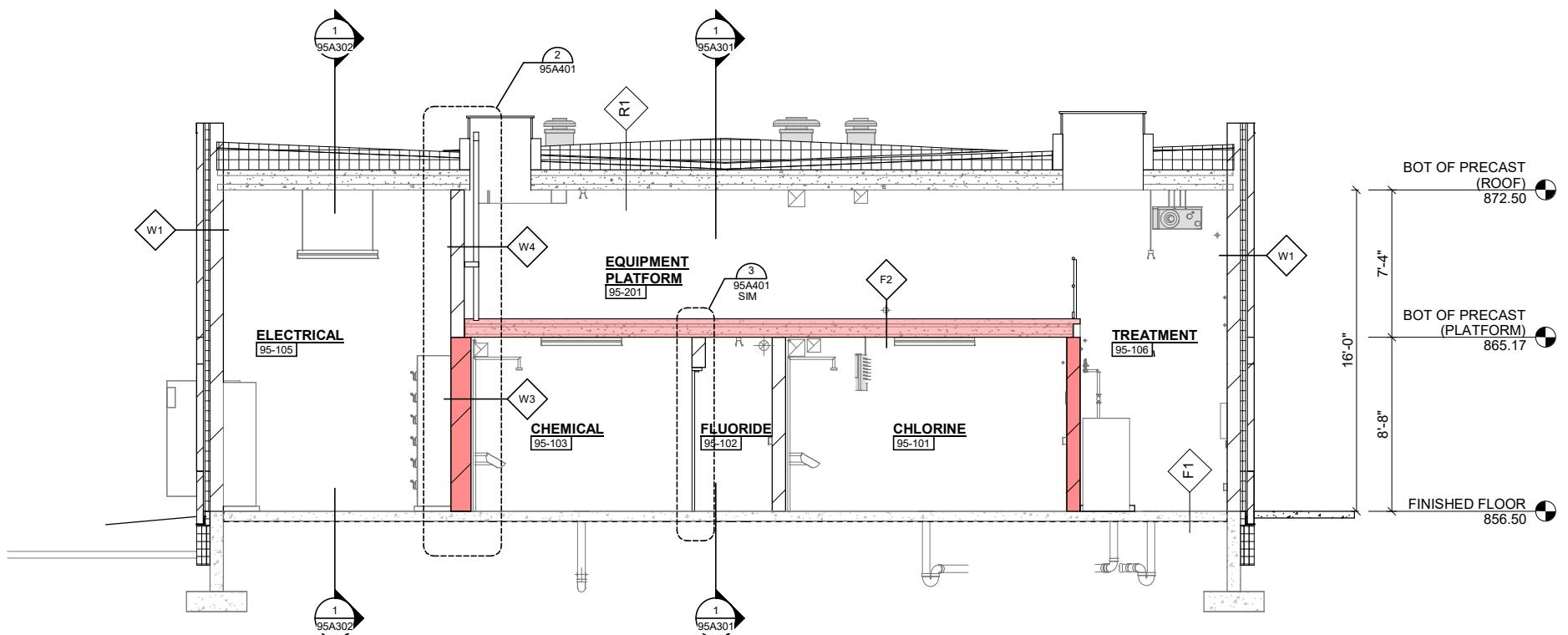
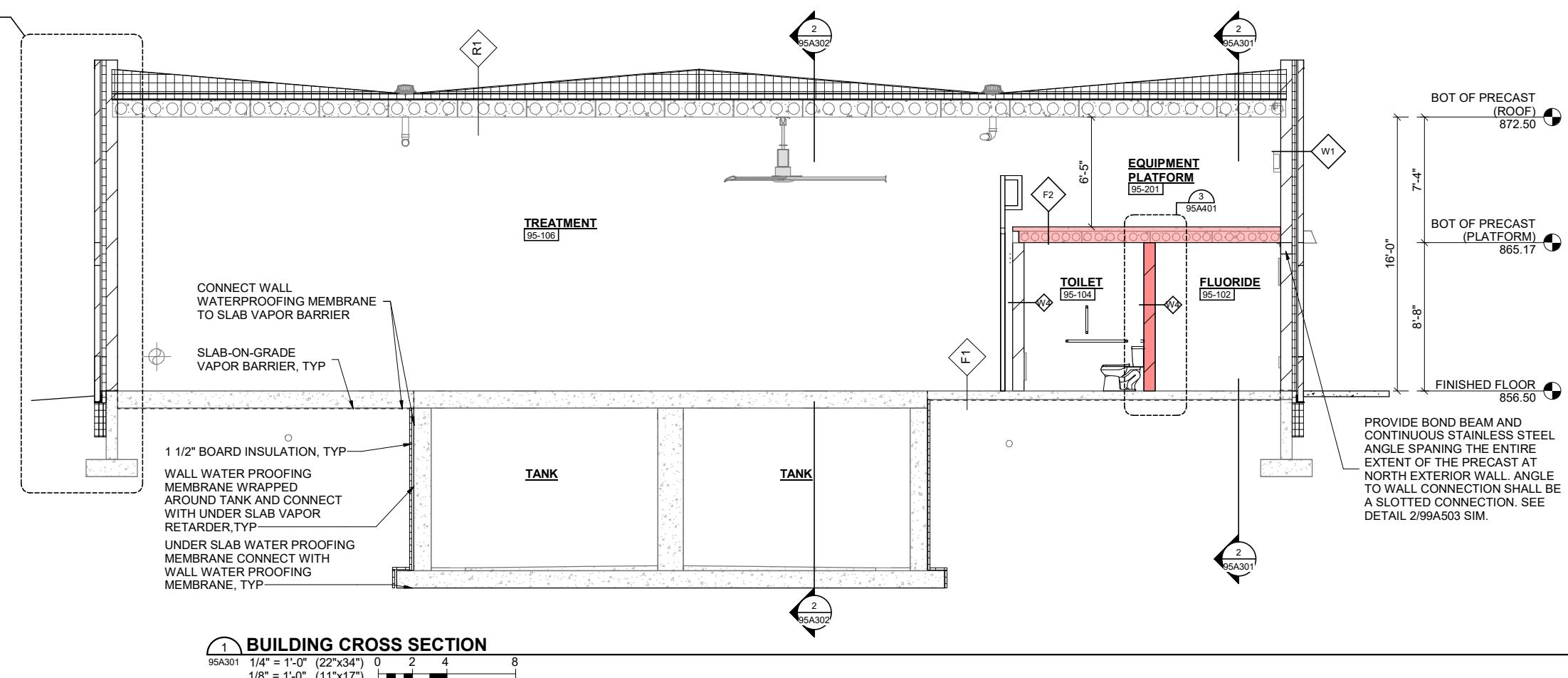
4 TOILET LOOKING SOUTH

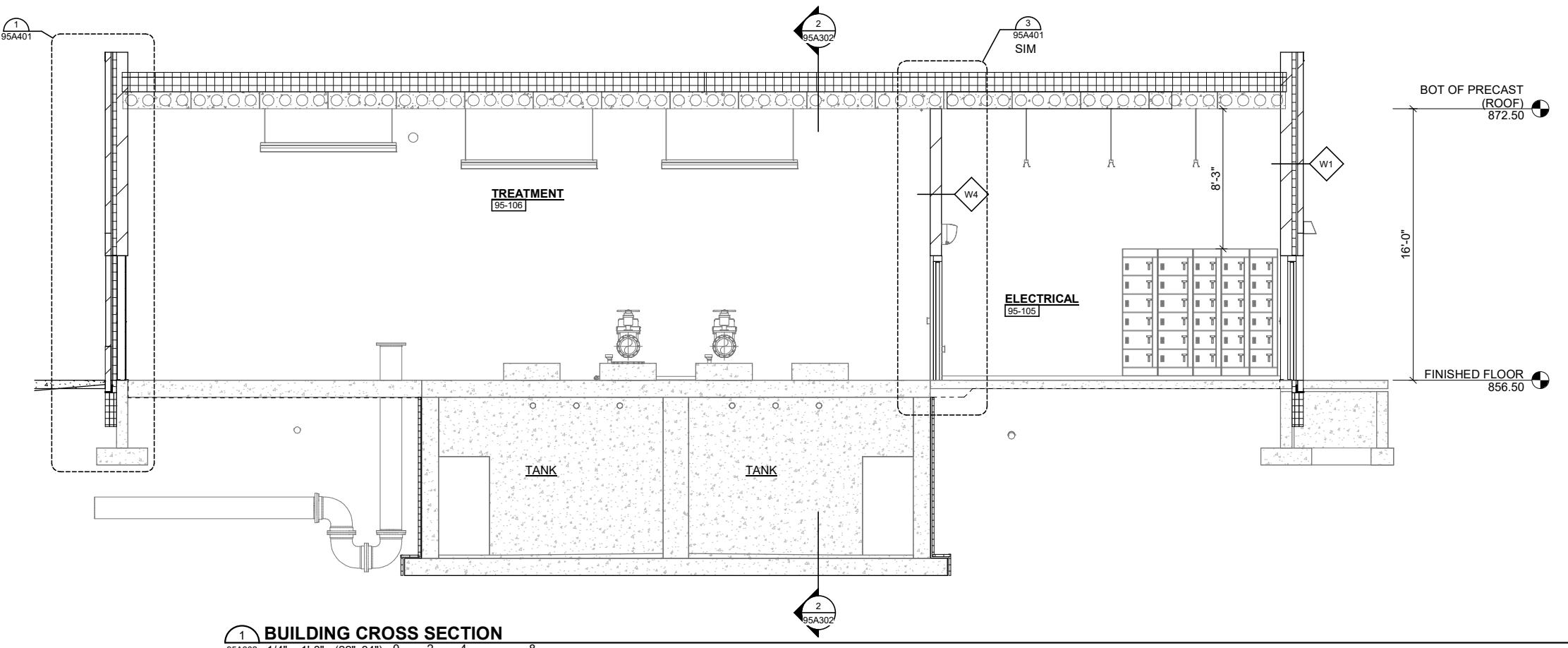
95A203 1/2" = 1'-0" (22"x34") 0 1 2 4
1/4" = 1'-0" (11"x17")



5 TOILET LOOKING EAST

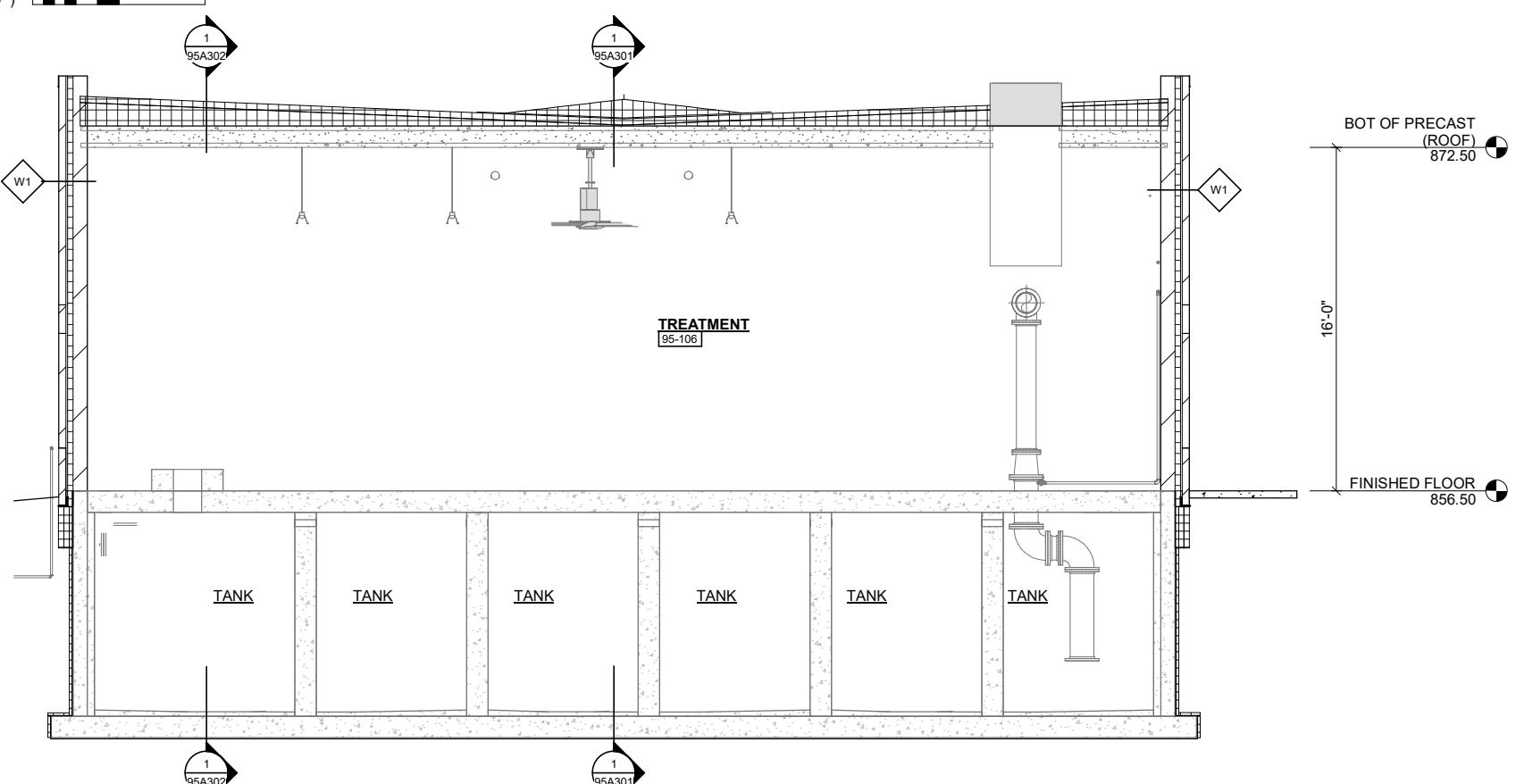
95A203 1/2" = 1'-0" (22"x34") 0 1 2 4
1/4" = 1'-0" (11"x17")





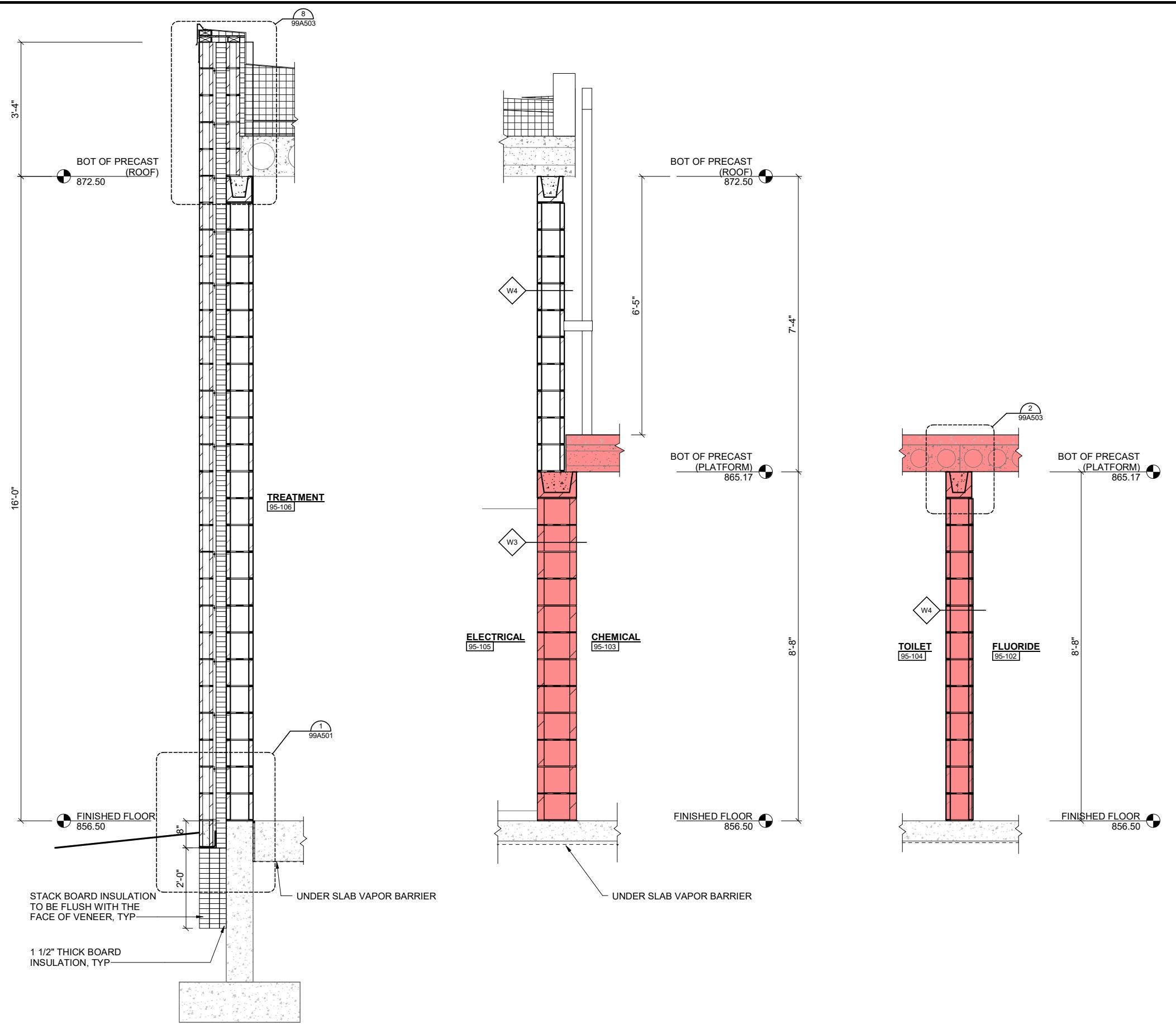
1 BUILDING CROSS SECTION

95A302 1/4" = 1'-0" (22"x34") 0 2 4 8
1/8" = 1'-0" (11"x17")



2 BUILDING CROSS SECTION

95A302 1/4" = 1'-0" (22"x34") 0 2 4 8
1/8" = 1'-0" (11"x17")



PROJECT DATE:	DEC 23, 2025	DRAWN BY:	CKW	REVISIONS	BY
		DESIGNED BY:	XL		
		CHECKED BY:	CJW		



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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WI

WELL AND BUILDING
WALL SECTIONS

PROJECT NO.	05323007.1
SHEET	95A401

KEYNOTES

1 10'-0" DIA X 32'-0" LONG, 4 CELL HORIZONTAL PRESSURE FILTER BY MANUFACTURER AND MECH
2 PIPING. TO BE INSTALLED IN PHASE 2

3 POTASSIUM PERMANGANATE CHEMICAL TANK, SCALE, MIXER, AND CONTAINMNET BASIN. TO BE
4 INSTALLED IN PHASE 2

5 150-LB GAS CHLORINE CHEMICAL CYLINDER. SECURE TO WALL WITH CHAIN (TYP)

6 DUAL CYLINDER SCALE WITH SOLO DIGITAL INDICATOR FOR PRE GAS CHLORINE SYSTEM

7 VERTICAL TURBINE PUMP MOTOR

8 AIRWASH BLOWER SYSTEM TO BE INSTALLED IN PHASE 2. SEE STRUCTURAL FOR EQUIPMENT
9 PAD INSTALLED IN PHASE 1

10 10" FLANGED FLEX CHECK VALVE W/ POSITION INDICATOR

11 10-INCH FLGXFLG BI-DIRECTIONAL MAG METER W/ ZERO UPSTREAM/DOWNSTREAM LAY LENGTH

12 12-INCH DETENTION TANK OVERFLOW PIPING. SEE SITE/CIVIL FOR DAYLIGHT

13 PRESSURE GAUGE, 1/2-INCH TAP, SS PIPE, & ISOLATION VALVE

14 2" WELL SERVICE AIR VALVE, INCLUDING 2" RISER AND ISOLATION VALVE, AND 2" DISCHARGE
15 PIPING TERMINATING 24" ABOVE FLOOR WITH 24-MESH SCREEN, ROUTE TO HUB DRAIN

16 AIR INTAKE HOOD. TO BE INSTALLED IN PHASE 2

17 FLUORIDE CHEMICAL TANK, SCALE, AND CONTAINMENT BASIN. TO BE INSTALLED IN PHASE 2

18 FLOW SWITCH - SEE DIV 26

19 10-INCH STUB FOR FUTURE WELL #10 RAW WATER. TERMINATE 3-FT ABOVE FF W/ BLIND FLANGE

20 12-INCH STUB FOR FUTURE WELL #10 AERATOR DISCHARGE. EXTEND APPROX 3-FT ABOVE FF
21 AND CAP

22 HIGH LIFT PUMP ISOLATION PAD (TYP). SEE DETAIL 6/95M503

23 POST-CHLORINE INJECTION TAP. SEE DETAIL 1/95M503

24 PRELUBE ASSEMBLY. SEE DETAIL 9/95M503

25 ROUTE 3-INCH 90-DEG BEND AND PIPE THROUGH DETENTION TANK WALL AND UP THROUGH
26 FLOOR, TERMINATE 3-INCH ABOVE FF WITH MECHANICAL CAP, HAVE 24-MESH SCREEN ON
27 90-DEG BEND TERMINATING DOWNWARD IN DETENTION TANK

28 PIPE SUPPORT

29 1-1/2-INCH PIPE SLEEVE FOR 1-INCH WATER SERVICE TO CHLORINE ROOM, PIPE PENETRATION
30 SHALL BE PROTECTED USING UL 3-HR OR ABOVE RATED ASSEMBLY

31 POST-CHLORINE BOOSTER PUMP AND ASSEMBLY, SEE DETAIL 1/95M502. SEE STRUCTURAL FOR
32 EQUIPMENT PAD

33 1-INCH SCH 80 PVC CHEMICAL CONDUIT PIPING FOR CHLORINE SYSTEMS, RUN ALONG WALL,
34 SECURE W/ BRACKETS & HANGERS, PIPE PENETRATIONS SHALL BE PROTECTED USING UL 3-HR
35 OR ABOVE RATED ASSEMBLY

36 WATER SERVICE AND WATER INLET ASSEMBLY FOR PRE-CHLORINATION SYSTEM, SEE DETAIL
37 1/95M501

38 3/4-INCH PVC SCH 80 VENT PIPE - CONNECT TO REGULATOR WITH TUBING, TERMINATE WITH
39 DOWNWARD 90 DEG BEND AND 24-MESH CORROSION RESISTANT SCREEN (TYP) (2 REQ'D, 1 FOR
40 PRE CHLORINE SYSTEM, 1 FOR POST CHLORINE SYSTEM)

41 ROUTE 1-INCH CHEMICAL TANK VENT CONDUIT THROUGH WALL, TERMINATE WITH DOWNWARD
42 90 DEG BEND AND 24-MESH CORROSION RESISTANT SCREEN A MIN. OF 5-FEET ABOVE GRADE

43 SOLO CYLINDER SCALE WITH SOLO DIGITAL INDICATOR FOR POST CHLORINE SYSTEM

44 1-INCH WELL SERVICE AIR VALVE, INCLUDING 1" RISER AND ISOLATION VALVE, AND 1"
45 DISCHARGE PIPING, ROUTE TO FLOOR DRAIN AND SECURE ALONG PUMP PAD AND WEST WALL

46 1/2-INCH SMOOTH END SAMPLE TAP

47 6'-0" X 6'-0" SQUARE FORCED DRAFT AERATOR, BLOWER, & AIR INTAKE HOOD, BY
48 MANUFACTURER. TO BE INSTALLED IN PHASE 2

49 10-INCH RESTRAINED FLANGE ADAPTER (MEGA FLANGE OR EQUAL)

50 6-INCH FLANGE TO 4.5-INCH NH CONNECTION W/LOCKABLE CAP

51 PIPE SLEEVE AND PENETRATION FOR FUTURE CHEMICAL, CAP ONE END, PIPE PENETRATION
52 SHALL BE PROTECTED USING UL 3-HR OR ABOVE RATED ASSEMBLY

53 2-INCH SCH 80 PVC WITH 2-INCH X 4-INCH ECCENTRIC REDUCER, BRACE VERTICAL TO
54 UNI-STRUT, ROUTE ALONG FF, PUMP ISOLATION PAD, ACCESS HATCH CURB, AND WEST WALL TO
55 NEAREST FLOOR DRAIN. SHIM ALONG LENGTH OF HORIZONTAL PIPE TO MAINTAIN 2% SLOPE
56 TOWARDS FLOOR DRAIN.

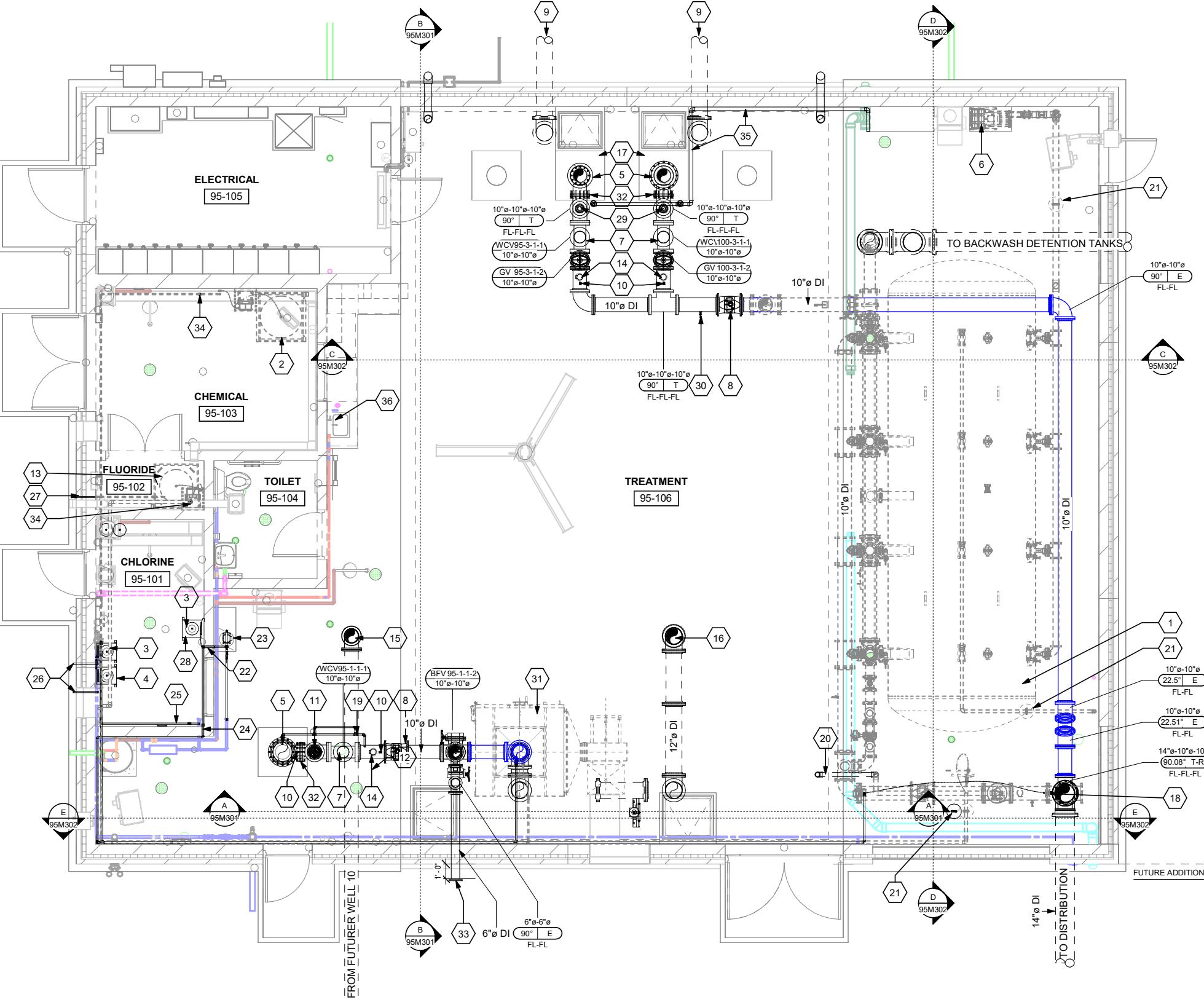
57 SMOOTH END SAMPLE TAP AT SINK BY DIV 22

LEGEND

— PERMANENT PROCESS EQUIPMENT TO BE INSTALLED IN PHASE 1
- - - - - PERMANENT BELOW-SLAB PROCESS EQUIPMENT TO BE INSTALLED IN PHASE 1
— PERIODIC PROCESS EQUIPMENT TO BE INSTALLED IN PHASE 1
- - - - - PROCESS EQUIPMENT TO BE INSTALLED IN PHASE 2

GENERAL NOTES

A. NOTE ALL OTHER COLORED LINWORK ON PROCESS SHEETS IS APPLICABLE TO OTHER DIVISIONS AND NOT SPECIFICALLY RELATED TO PROCESS MECHANICAL



FLOOR PLAN

" = 1'-0" (22"x34") 0 2 4 8
 " = 1' 0" (11"x17")

KEYNOTES

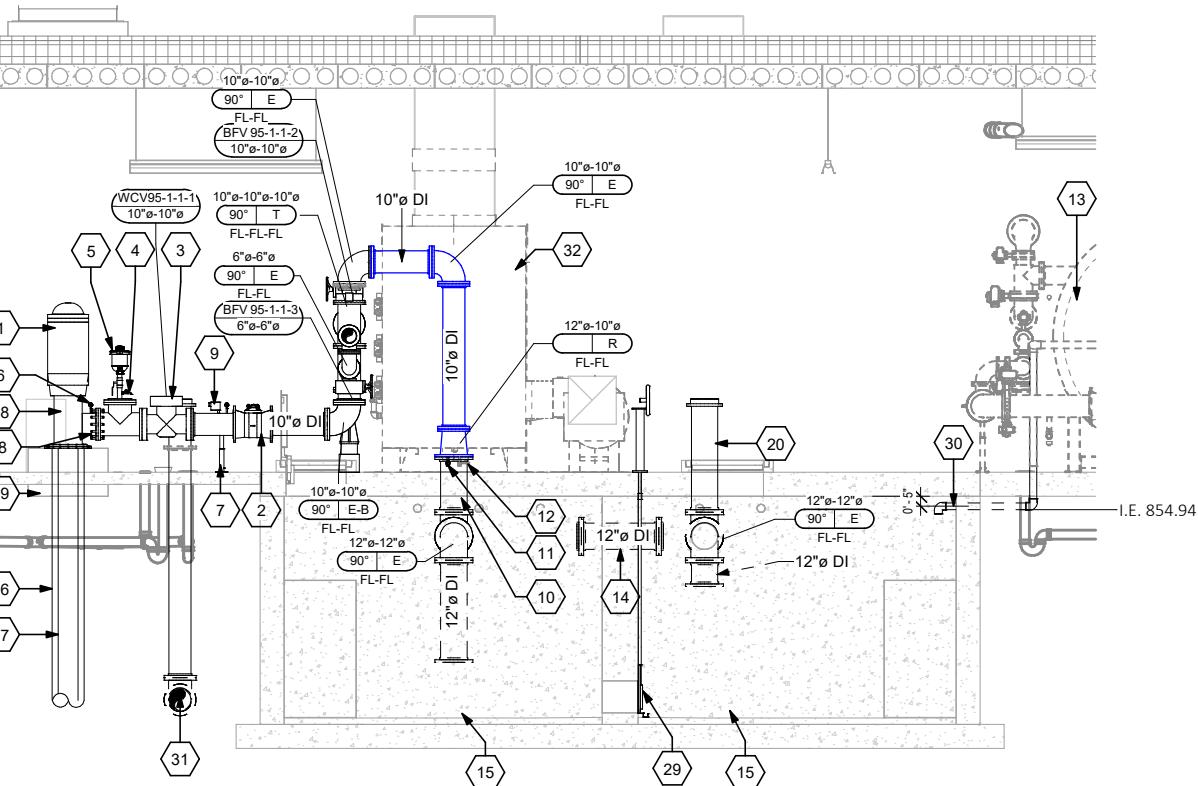
1 VERTICAL TURBINE PUMP MOTOR
 2 10-INCH FLGXFLG BI-DIRECTIONAL MAG METER W/ ZERO UPSTREAM/DOWNSTREAM LAY LENGTH
 3 10" FLANGED FLEX CHECK VALVE W/ POSITION INDICATOR
 4 1/2-INCH SMOOTH END SAMPLE TAP (RAW WATER). INSTALL ON VERTICAL PIPING TO WELL SERVICE VACUUM RELIEF/AIR SERVICE.
 INSTALL BELOW ISOLATION VALVE.
 5 2" WELL SERVICE AIR VALVE, INCLUDING 2" RISER AND ISOLATION VALVE, AND 2" DISCHARGE PIPING TERMINATING 24" ABOVE FLOOR
 WITH 24-MESH SCREEN, ROUTE TO HUB DRAIN
 6 PRESSURE GAUGE, 1/2-INCH TAP, SS PIPE, & ISOLATION VALVE
 7 PIPE SUPPORT
 8 PUMP DISCHARGE HEAD WITH BASE PLATE
 9 FLOW SWITCH - SEE DIV 26
 10 12-INCH DI PIPE PENETRATION INTO BELOW-SLAB DETENTION TANK
 11 PRE-CHLORINE INJECTION TAP, INSTALL IN 12-INCH PIPE THROUGH FLOOR, SEE DETAIL 1/95M503
 12 POTASSIUM PERMANGANATE INJECTION TAP. TO BE INSTALLED IN PHASE 2
 13 10'-0" DIA X 32'-0" LONG, 4 CELL HORIZONTAL PRESSURE FILTER BY MANUFACTURER AND MECH PIPING. TO BE INSTALLED IN PHASE 2
 14 12-INCH PIPE PENETRATION THROUGH DETENTION TANK DIVIDER WALL FLANGED WITH 12-INCH BLIND FLANGE EACH END
 15 GROUT FILL FOR DETENTION TANK FLOOR SLOPE. 1-1/2-INCH DROP BY GROUT FILL TO SUMP
 16 18-INCH WELL CASING
 17 12-INCH WELL COLUMN PIPING
 18 PUMP DISCHARGE HEAD WITH BASE PLATE, 10-INCH FE OUTLET AND NPT PENETRATIONS FOR AIR LINE, LEVEL TRANSDUCER AND
 PRE-LUBE
 19 WELL PUMP ISOLATION PAD. SEE DETAIL 5/95M503
 20 12-INCH STUB FOR FUTURE WELL #10 AERATOR DISCHARGE. EXTEND APPROX 3-FT ABOVE FF AND CAP
 21 10-INCH BLIND FLANGE
 22 2-INCH DEEP X 2-FT WIDE X 2-FT LONG SUMP DOWN TO CONCRETE BASE. FILL GROUT AROUND SUMP FOR FLOOR SLOPE
 23 12-INCH DETENTION TANK OVERFLOW PIPING. SEE SITE/CIVIL FOR DAYLIGHT
 24 1-INCH WELL SERVICE AIR VALVE, INCLUDING 1" RISER AND ISOLATION VALVE, AND 1" DISCHARGE PIPING, ROUTE TO FLOOR DRAIN AND
 SECURE ALONG PUMP PAD AND WEST WALL
 25 PUMP DISCHARGE HEAD WITH BASE PLATE, 10-INCH FE OUTLET
 26 6-INCH SS VENT THROUGH DETENTION TANK ROOF AND OUT WEST EXTERIOR WALL W/ DOWNWARD TURNED ELBOW AND 24-MESH
 CORROSION RESISTANT SCREEN. SEE PENETRATION DETAIL 4/95M503
 27 SEE ARCH FOR EXTERIOR WALL PENETRATION DETAIL
 28 PROCESS MECH PIPING TO BE INSTALLED IN PHASE 2
 29 16" X 16" SLIDE GATE BOLTED TO CONCRETE DIVIDER WALL WITH NON-RISING STEM AND MECHANICAL HAND WHEEL
 30 ROUTE 3-INCH 90-DEG BEND AND PIPE THROUGH DETENTION TANK WALL AND UP THROUGH FLOOR, TERMINATE 3-INCH ABOVE FF WITH
 MECHANICAL CAP. HAVE 24-MESH SCREEN ON 90-DEG BEND TERMINATING DOWNWARD IN DETENTION TANK
 31 10-INCH DI STUB FOR RAW WATER TRANSMISSION MAIN FROM FUTURE WELL 10, TERMINATE 3-FEET ABOVE FF W/ BLIND FLANGE. SEE
 SITE/CIVIL
 32 6'-0" X 6'-0" SQUARE FORCED DRAFT AERATOR, BLOWER, & AIR INTAKE HOOD, BY MANUFACTURER. TO BE INSTALLED IN PHASE 2
 33 6-INCH FLANGE TO 4.5-INCH NH CONNECTION W/LOCKABLE CAP

LEGEND

- PERMANENT PROCESS EQUIPMENT TO BE INSTALLED IN PHASE 1
- - - PERMANENT BELOW-SLAB PROCESS EQUIPMENT TO BE INSTALLED IN PHASE 1
- TEMPORARY PROCESS EQUIPMENT TO BE INSTALLED IN PHASE 1
- - - PROCESS EQUIPMENT TO BE INSTALLED IN PHASE 2

GENERAL NOTES

A. NOTE ALL OTHER COLORED LINERWORK ON PROCESS SHEETS IS APPLICABLE TO OTHER DIVISIONS AND NOT SPECIFICALLY RELATED TO PROCESS MECHANICAL



KEYNOTES

1 6-INCH SS VENT THROUGH DETENTION TANK ROOF AND OUT WEST EXTERIOR WALL W/ DOWNWARD TURNED ELBOW AND 24-MESH CORROSION RESISTANT SCREEN. SEE PENETRATION DETAIL 4/95M503

2 PIPE SUPPORT

3 10-INCH FLGXFLG BI-DIRECTIONAL MAG METER W/ ZERO UPSTREAM/DOWNSTREAM LAY LENGTH

4 10' 0" DIA X 32' 0" LONG, 4 CELL HORIZONTAL PRESSURE FILTER BY MANUFACTURER AND MECH PIPING. TO BE INSTALLED IN PHASE 2

5 PROCESS MECH PIPING TO BE INSTALLED IN PHASE 2

6 HIGH LIFT PUMP ISOLATION PAD (TYP). SEE DETAIL 6/95M503

7 GROUT FILL FOR DETENTION TANK FLOOR SLOPE. 1-1/2-INCH DROP BY GROUT FILL TO SUMP

8 AIRWASH BLOWER SYSTEM TO BE INSTALLED IN PHASE 2. SEE STRUCTURAL FOR EQUIPMENT PAD INSTALLED IN PHASE 1

9 POST-CHLORINE INJECTION TAP. SEE DETAIL 1/95M503

10 1-INCH SCH 80 PVC CHEMICAL CONDUIT PIPING FOR CHLORINE SYSTEMS, RUN ALONG WALL, SECURE W/ BRACKETS & HANGERS, PIPE PENETRATIONS SHALL BE PROTECTED USING UL 3-HR OR ABOVE RATED ASSEMBLY

11 CHEMICAL CONDUIT TO BE INSTALLED IN PHASE 2

12 16" X 16" SLIDE GATE BOLTED TO CONCRETE DIVIDER WALL WITH NON-RISING STEM AND MECHANICAL HAND WHEEL

13 TEMPORARY PIPE SUPPORT, TO BE REMOVED IN PHASE 2

14 VERTICAL TURBINE PUMP MOTOR FOR HIGH LIFT PUMPS

15 1/2-INCH SMOOTH END SAMPLE TAP

16 14-INCH RESTRAINED FLANGE ADAPTER (MEGA FLANGE OR EQUAL)

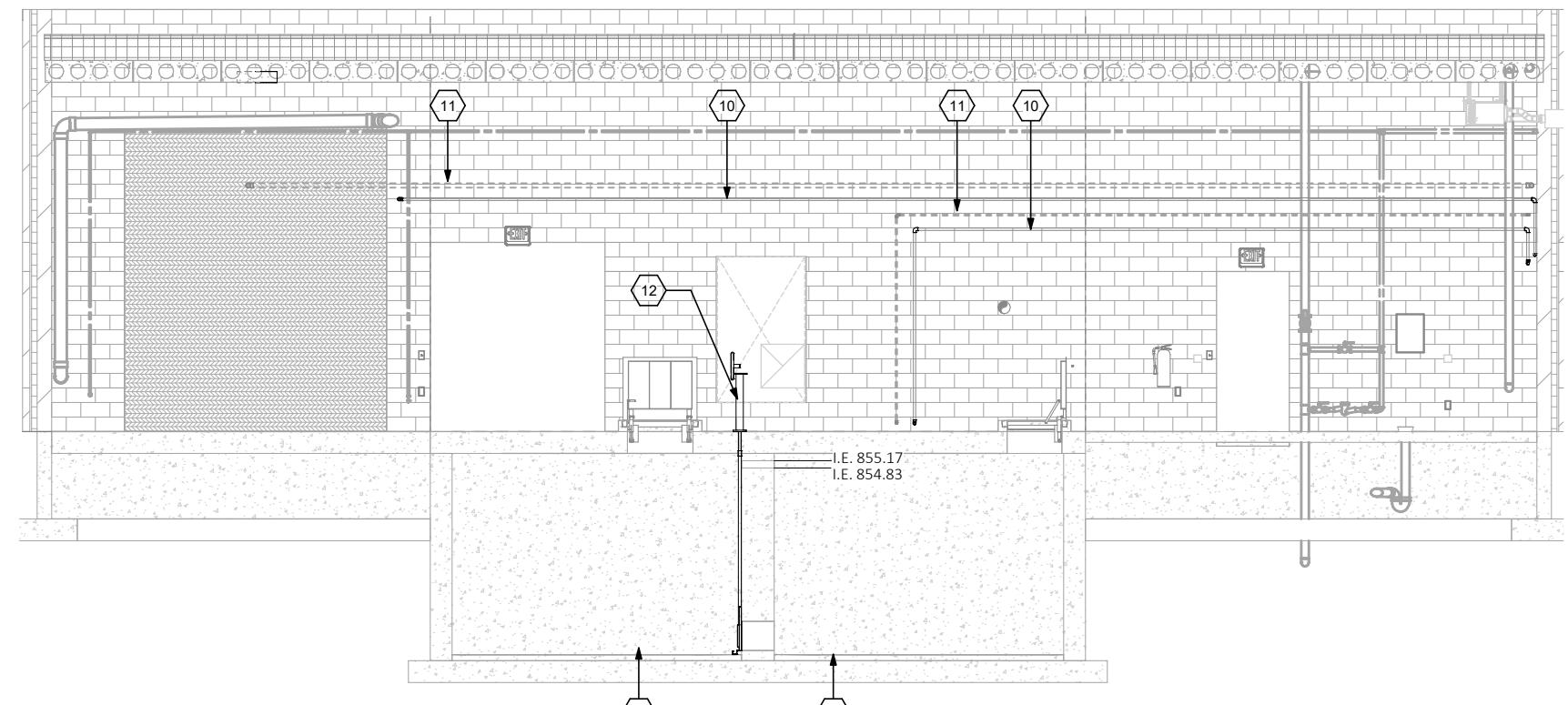
17 2-INCH SCH 80 PVC WITH 2-INCH X 4-INCH ECCENTRIC REDUCER, BRACE VERTICAL TO UNI-STRUT, ROUTE ALONG FF, PUMP ISOLATION PAD, ACCESS HATCH CURB, AND WEST WALL TO NEAREST FLOOR DRAIN. SHIM ALONG LENGTH OF HORIZONTAL PIPE TO MAINTAIN 2% SLOPE TOWARDS FLOOR DRAIN.

LEGEND

- PERMANENT PROCESS EQUIPMENT TO BE INSTALLED IN PHASE 1
- - - PERMANENT BELOW-SLAB PROCESS EQUIPMENT TO BE INSTALLED IN PHASE 1
- PERMANENT PROCESS EQUIPMENT TO BE INSTALLED IN PHASE 1
- - - PROCESS EQUIPMENT TO BE INSTALLED IN PHASE 2

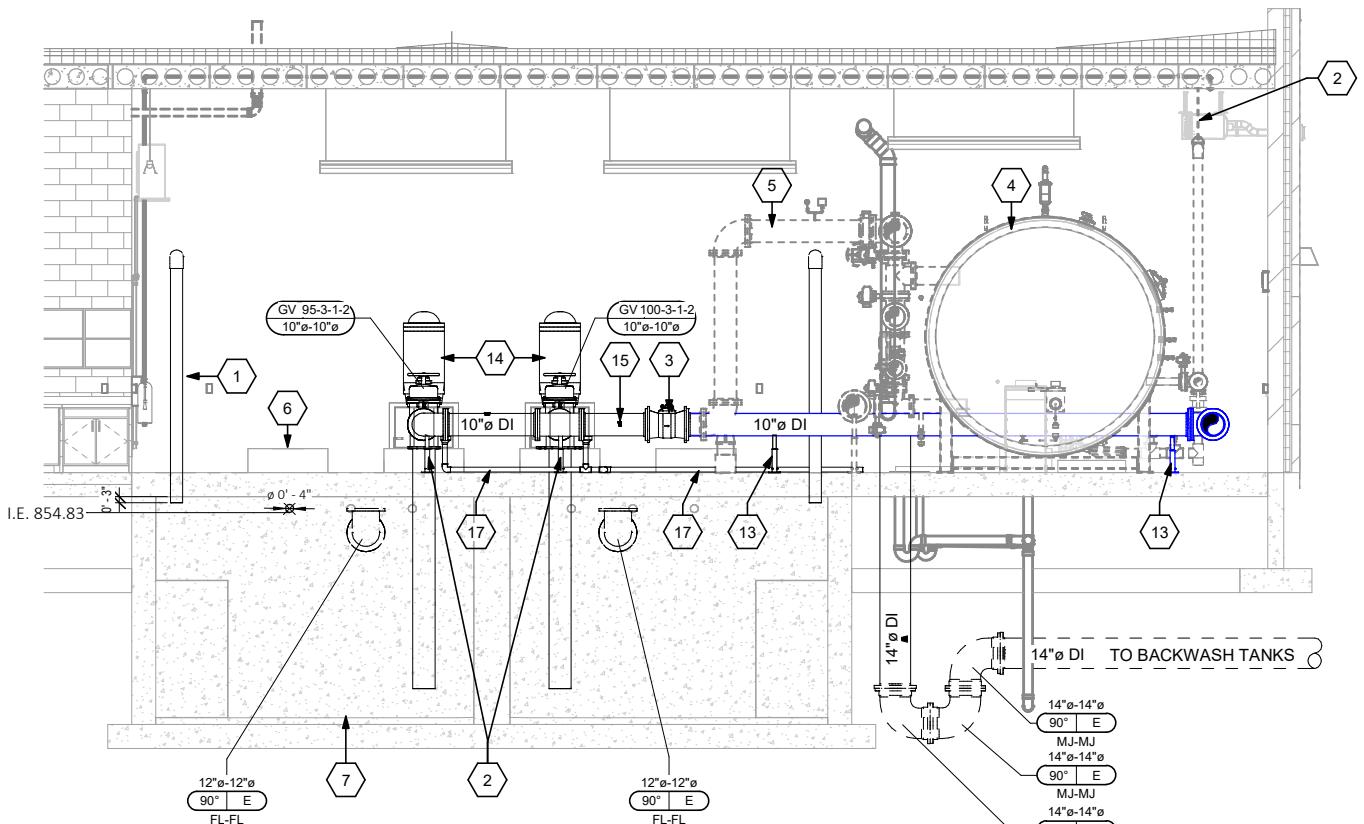
GENERAL NOTES

A. NOTE ALL OTHER COLORED LINWORK ON PROCESS SHEETS IS APPLICABLE TO OTHER DIVISIONS AND NOT SPECIFICALLY RELATED TO PROCESS MECHANICAL



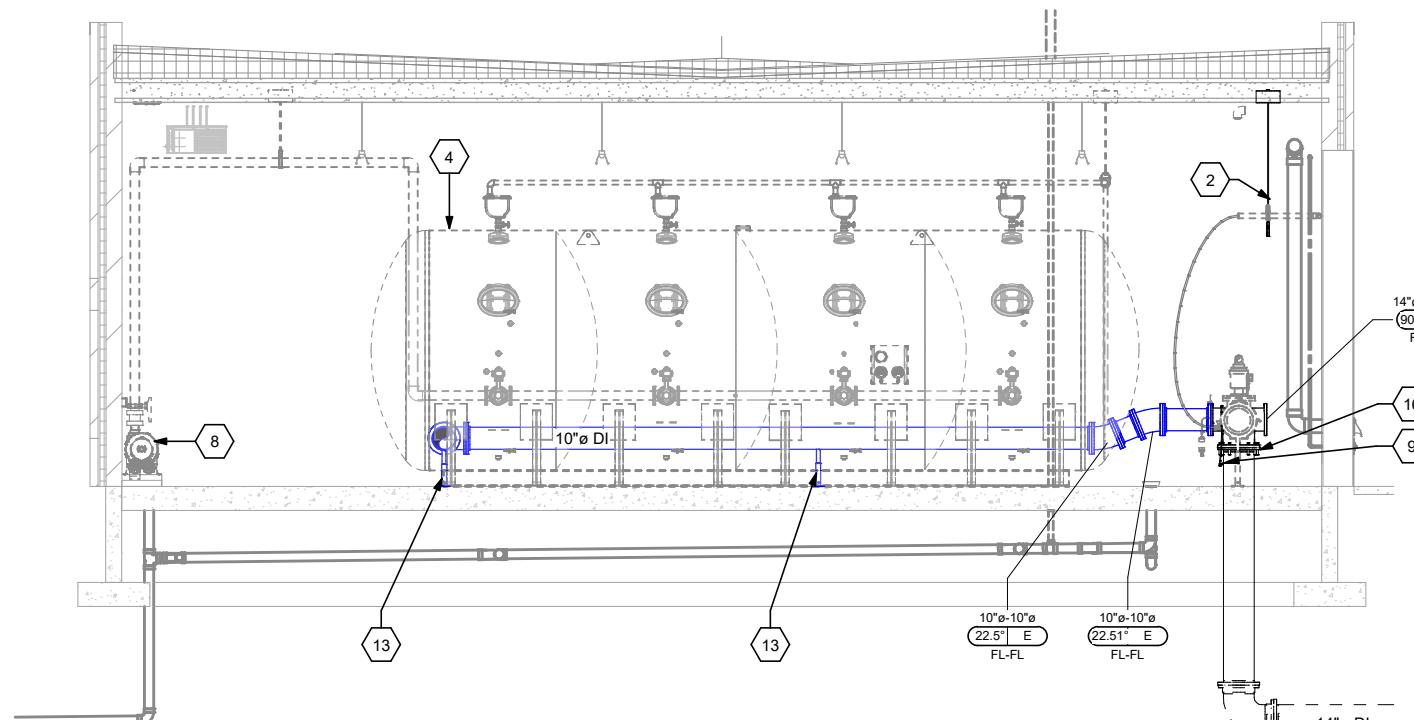
E EAST INTERIOR WALL

95M302 1/4" = 1'-0" (22"x34") 0 2 4 8
1/8" = 1'-0" (11"x17")



C HIGH LIFT PUMPS & TEMPORARY PIPING - LOOKING WEST

95M302 1/4" = 1'-0" (22"x34") 0 2 4 8
1/8" = 1'-0" (11"x17")



D TEMPORARY PIPING - LOOKING NORTH

95M302 1/4" = 1'-0" (22"x34") 0 2 4 8
1/8" = 1'-0" (11"x17")

GENERAL NOTES:

A. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM ENGINEER.

B. CONTRACTOR TO COORDINATE STRUCTURAL, ARCHITECTURAL, PLUMBING, HVAC, PROCESS MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILS, DIMENSIONS, ELEVATIONS, OPENINGS, ETC. NOTIFY ENGINEER OF ANY VARIANCE BEFORE COMMENCING CONSTRUCTION.

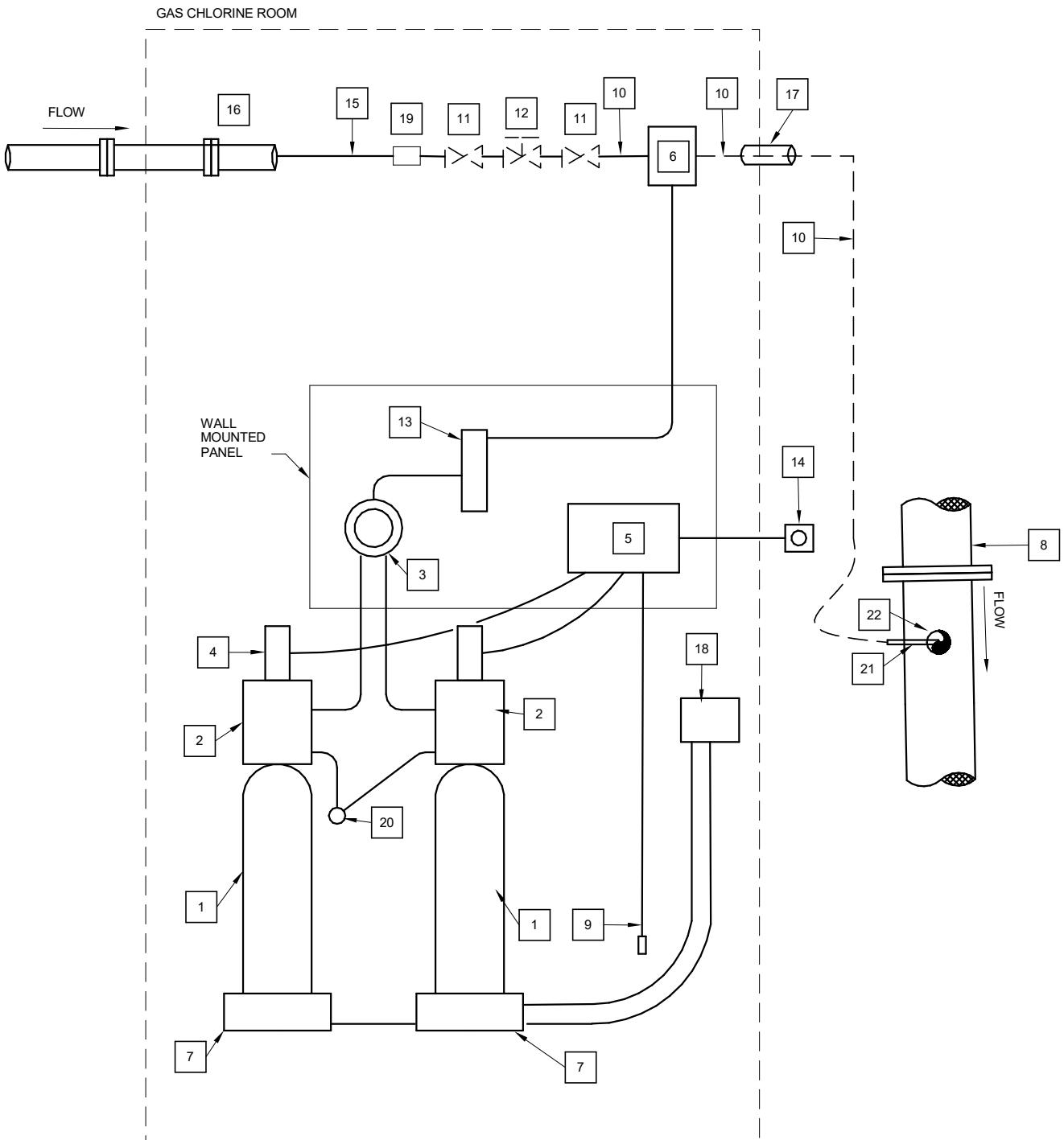
C. PROVIDE STEEL REINFORCEMENT FOR ALL OPENINGS THROUGH THE FLOOR SLAB ACCORDING TO THE ARCHITECTURAL PLANS/DETAILS.

D. ALL PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE WATER TIGHT.

E. SEE PROJECT MANUAL FOR PAINTING/COATING REQUIREMENTS.

BOX NOTES:

1. 150 LB. CHLORINE GAS CONTAINER
2. CYLINDER MOUNTED REGULATOR
3. AUTOMATIC SWITCH-OVER SPLITTER
4. EMERGENCY AUTOMATIC SHUTDOWN VALVE
5. EMERGENCY AUTOMATIC VALVE CONTROLLER
6. SOLENOID (EJECTOR)
7. ELECTRONIC SCALE
8. PROCESS PIPING - SEE SHEET 95M301
9. CHLORINE LEAK DETECTOR
10. 1" SCH 80 PVC PIPING
11. BALL VALVE
12. NIPPLE VALVE
13. RATE METER
14. KILL BUTTON (IN PUMP ROOM)
15. WATER SERVICE TO CHLORINE ROOM - SEE DIV 22
16. PLUMBING PIPE
17. PVC SLEEVE THROUGH WALL. SEAL AIR TIGHT. SEE ARCHITECTURAL FOR WALL PENETRATION DETAIL
18. SCALE DIGITAL INDICATOR , VISIBLE FROM INSPECTION WINDOW
19. FLOW METER
20. VENT LINE TO OUTSIDE
21. 1" CORPORATION AND PVC CHECK VALVE
22. 1" NPT TAP



1 PRE GAS CHLORINATION SCHEMATIC
95M501 NOT TO SCALE

PROJECT DATE:	DEC 23, 2025	DRAWN BY:	JMS	No.	DATE	REVISIONS	BY
PILOT DATE:		DESIGNED BY:	BJS				
		CHECKED BY:	EEO				

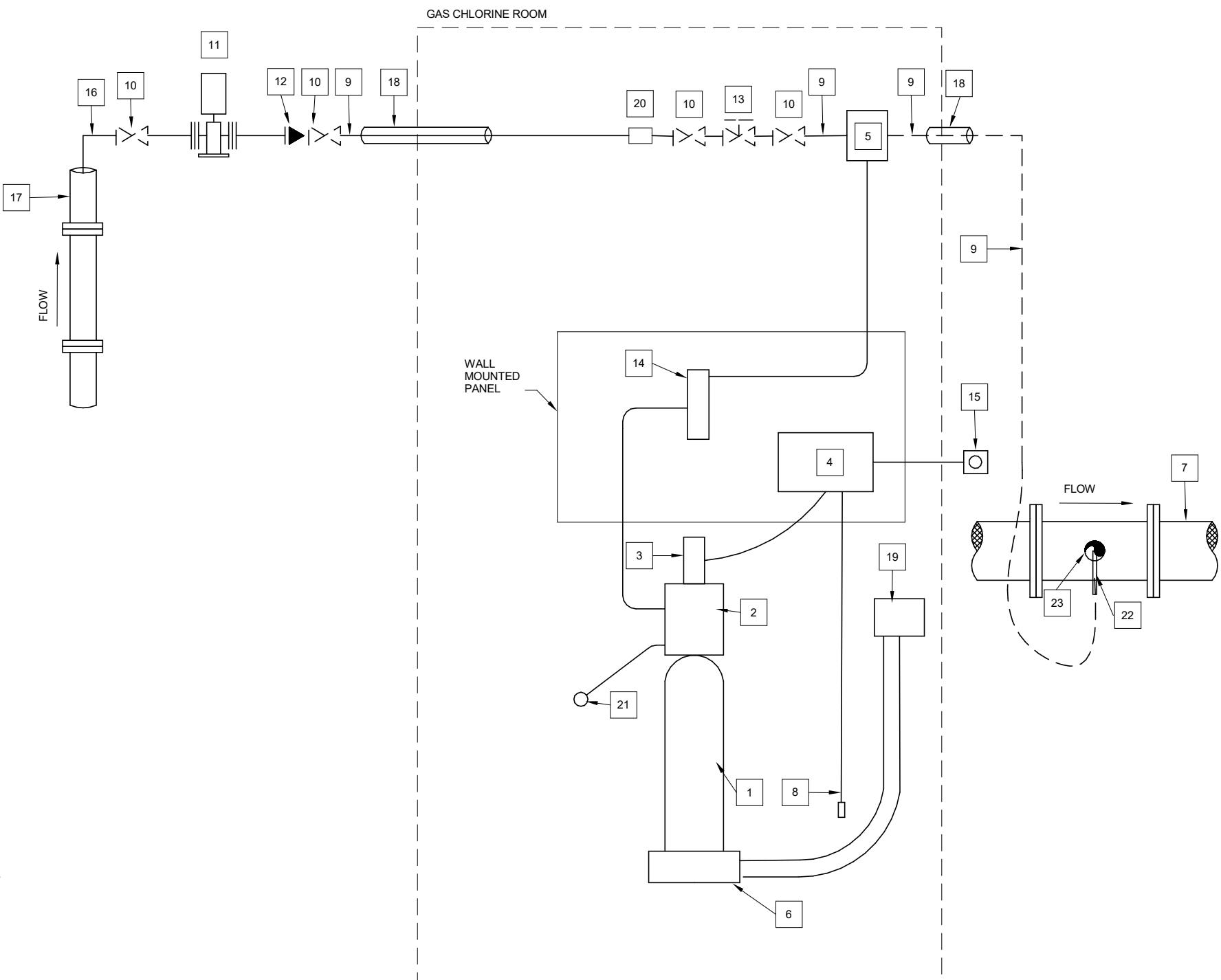


GENERAL NOTES:

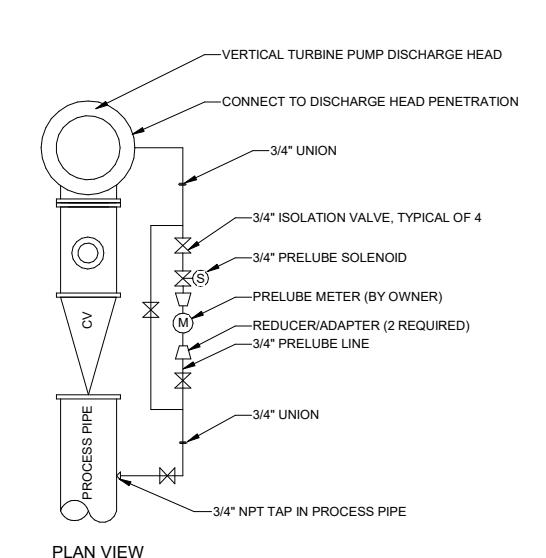
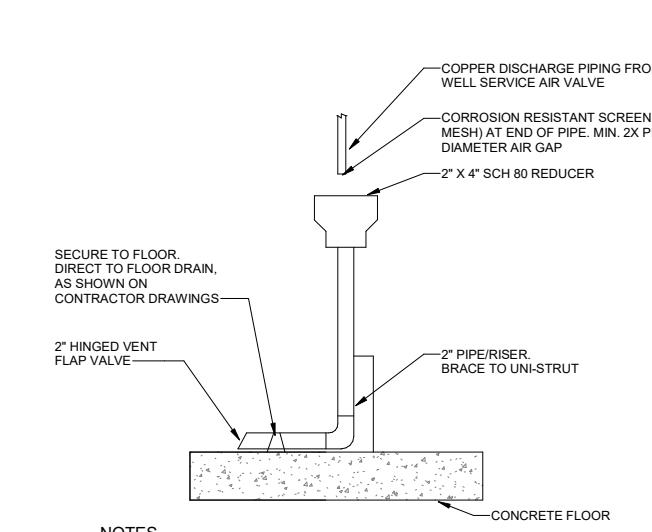
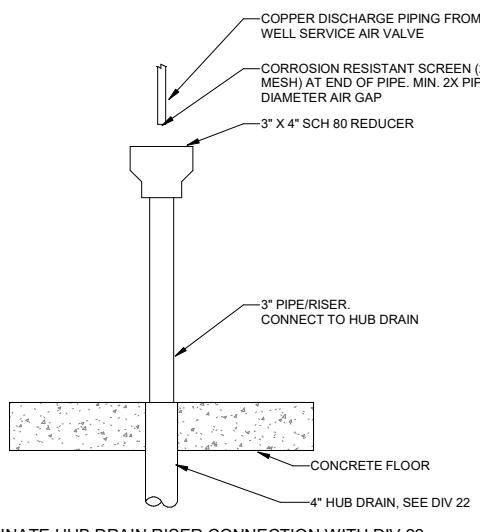
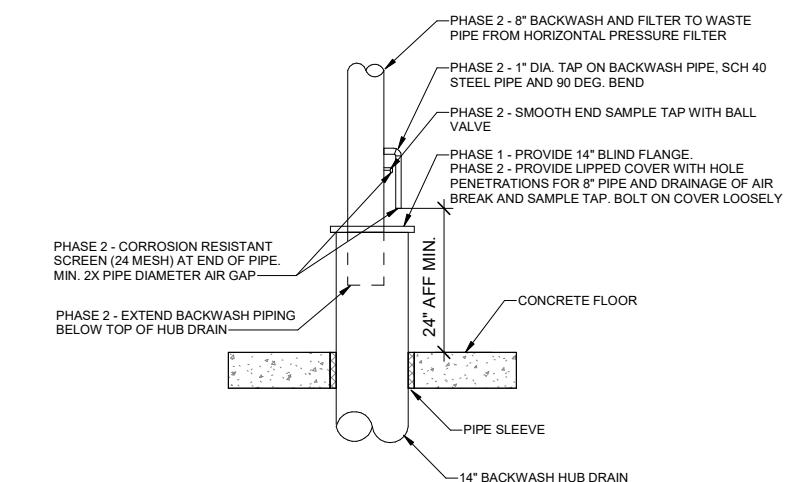
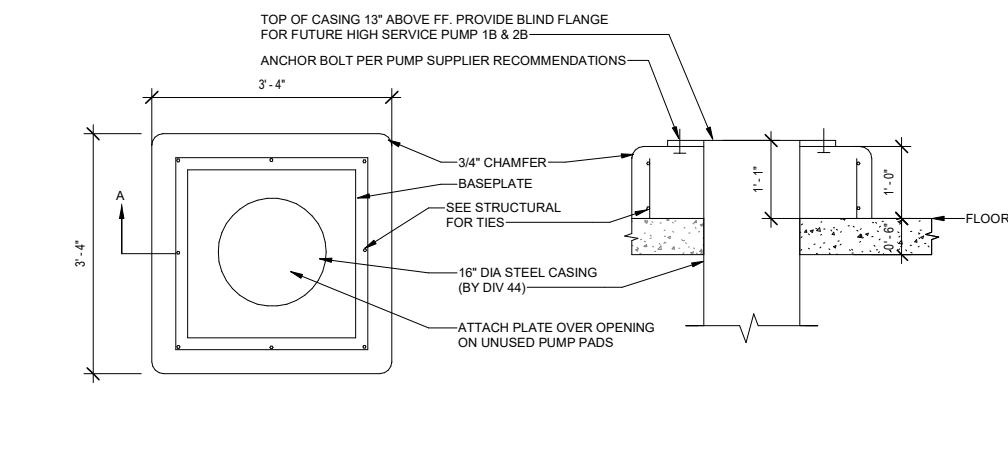
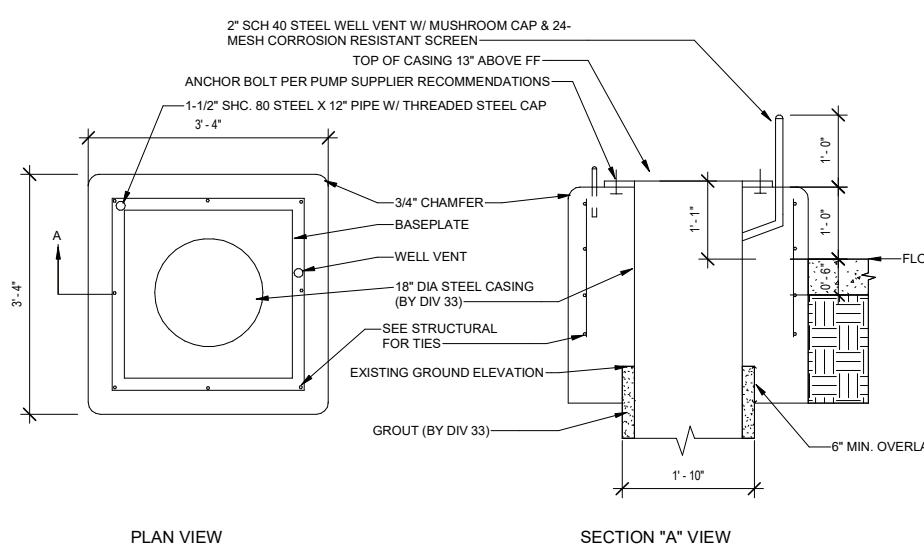
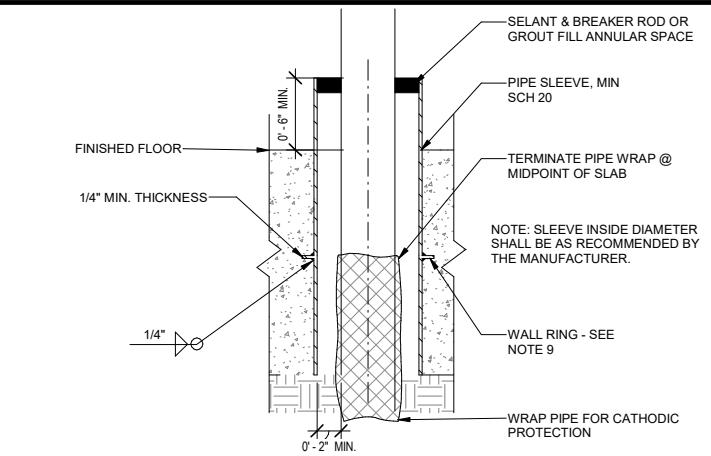
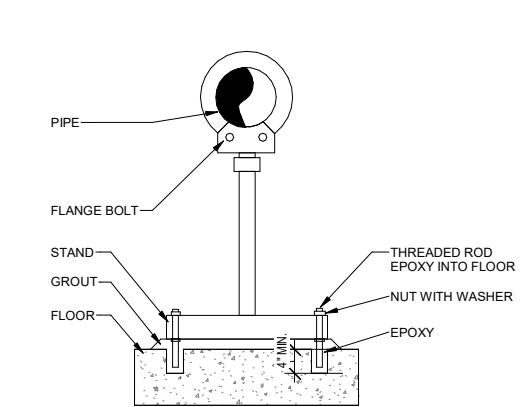
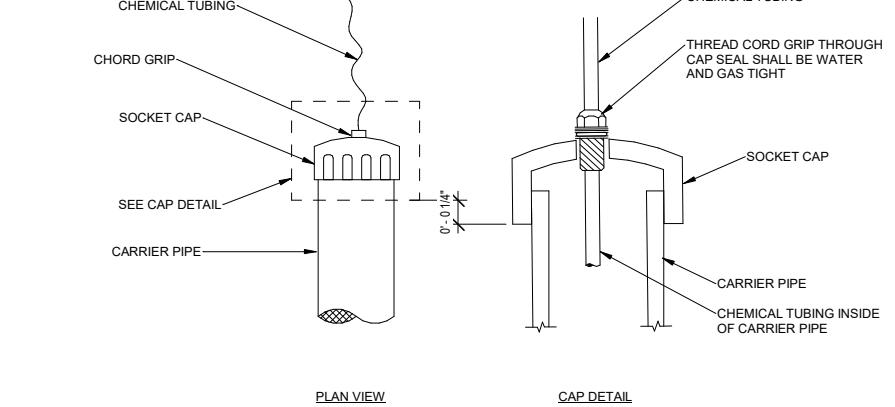
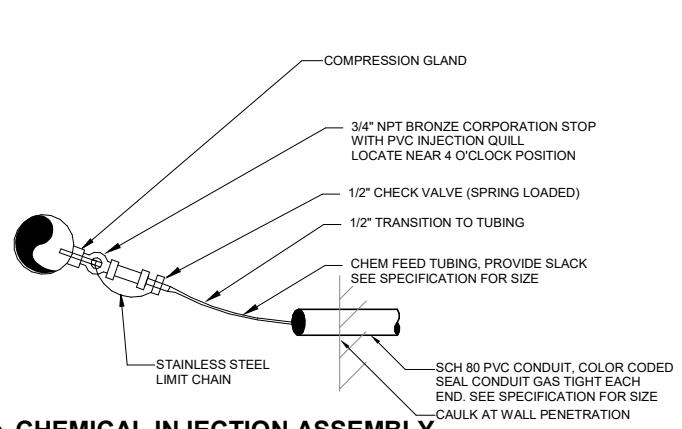
- A. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM ENGINEER.
- B. CONTRACTOR TO COORDINATE STRUCTURAL, ARCHITECTURAL, PLUMBING, HVAC, PROCESS MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILS, DIMENSIONS, ELEVATIONS OPENINGS, ETC. NOTIFY ENGINEER OF ANY VARIANCE BEFORE COMMENCING CONSTRUCTION.
- C. PROVIDE STEEL REINFORCEMENT FOR ALL OPENINGS THROUGH THE FLOOR SLAB ACCORDING TO THE ARCHITECTURAL PLANS/DETAILS.
- D. ALL PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE WATER TIGHT.
- E. SEE PROJECT MANUAL FOR PAINTING/COATING REQUIREMENTS.

BOX NOTES:

1. 150 LB. CHLORINE GAS CONTAINER
2. CYLINDER MOUNTED REGULATOR
3. EMERGENCY AUTOMATIC SHUTDOWN VALVE
4. EMERGENCY AUTOMATIC VALVE CONTROLLER
5. SOLENOID (EJECTOR)
6. ELECTRONIC SCALE
7. PROCESS PIPING - SEE SHEET 95M301
8. CHLORINE LEAK DETECTOR
9. 1" SCH 80 PVC PIPING
10. BALL VALVE
11. CHLORINE BOOSTER PUMP
12. CHECK VALVE
13. NIPPLE VALVE
14. RATE METER
15. KILL BUTTON (IN PUMP ROOM)
16. WATER SERVICE TO CHLORINE ROOM - SEE DIV 22
17. PLUMBING PIPE
18. PVC SLEEVE THROUGH WALL. SEAL AIR TIGHT. SEE ARCHITECTURAL FOR WALL PENETRATION DETAIL
19. SCALE DIGITAL INDICATOR , VISIBLE FROM INSPECTION WINDOW
20. FLOW METER
21. VENT LINE TO OUTSIDE
22. 1" CORPORATION AND PVC CHECK VALVE
23. 1" NPT TAP

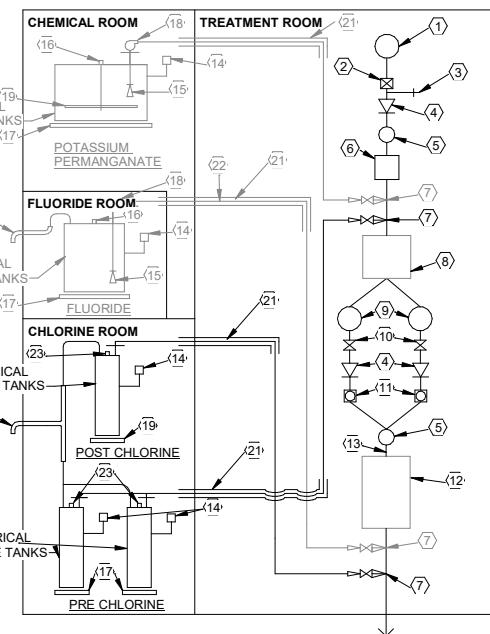


1 POST GAS CHLORINATION SCHEMATIC



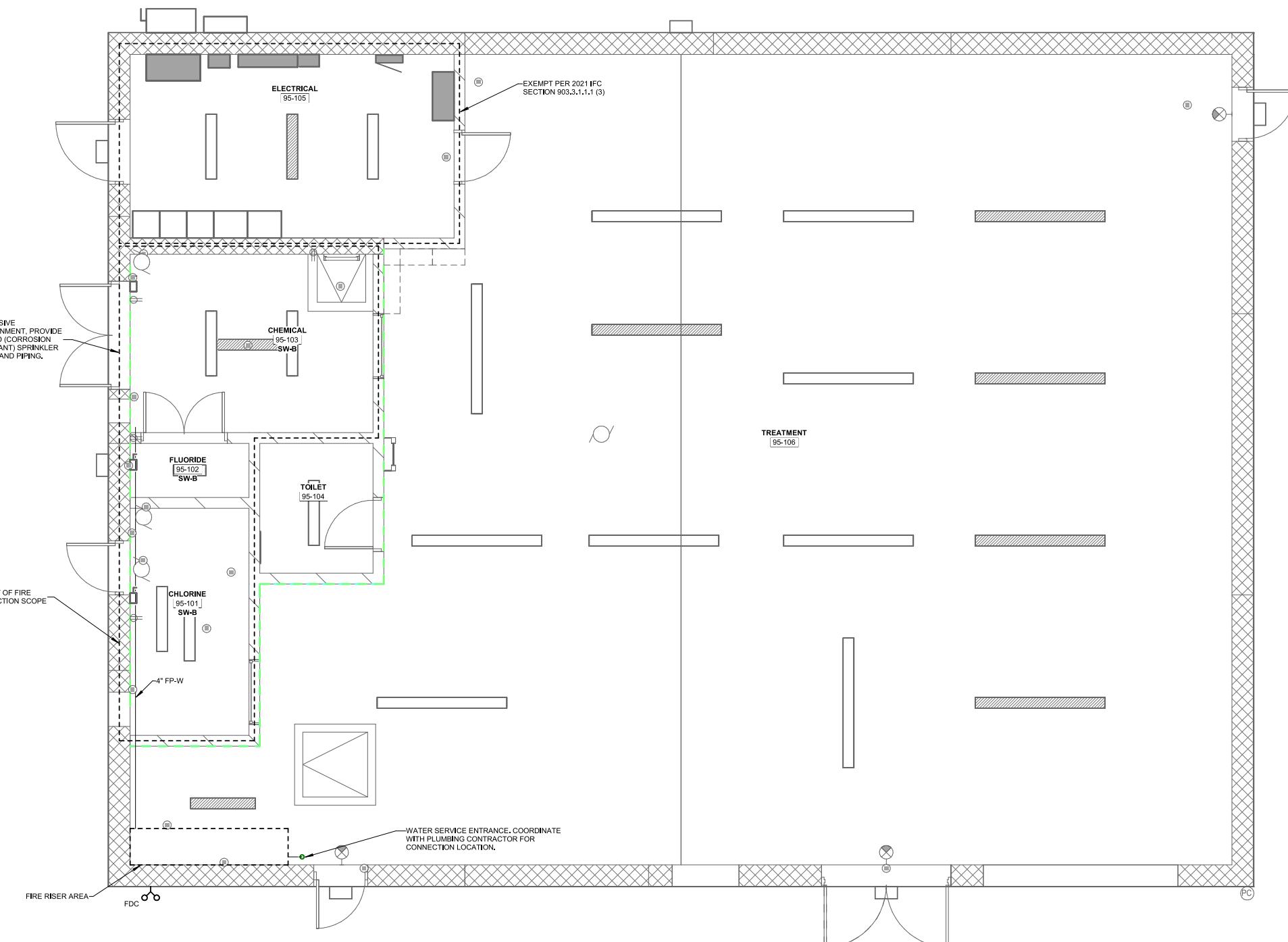
NOTES:
 1. WELLHEAD
 2. WELL SERVICE AIR VALVE
 3. SAMPLE TAP
 4. FLEX CHECK VALVE
 5. METER
 6. AERATOR
 7. CHEMICAL INJECTION ASSEMBLY, SEE DETAIL 1/95M503
 8. DETENTION TANK
 9. HIGH LIFT PUMP
 10. BALL VALVE
 11. GATE VALVE
 12. HORIZONTAL PRESSURE FILTER
 13. PROCESS PIPING
 14. ELECTRICAL SCALE DIGITAL READOUT
 15. FOOT VALVE & STRAINER
 16. BULK FILL CONNECTION
 17. ELECTRIC SCALE
 18. CHEMICAL FEED PUMP
 19. MIXER
 20. VENT PIPE
 21. SCH 80 PVC CONDUIT
 22. 3/8" FLEXIBLE POLYETHYLENE CHEM FEED TUBING
 23. VACUUM REGULATOR

LEGEND
 — Installed in Phase 1
 — Installed in Phase 2



GENERAL INSTALLATION NOTES

- SEE THE FIRE SUPPRESSION SPECIFICATION FOR MORE INFORMATION.
- THE AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED PER NFPA, BUILDING CODE, FIRE CODE, AND THE LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR TO PREPARE ALL FINAL DRAWINGS, CALCULATIONS, AND SUBMITTALS TO THE AUTHORITY HAVING JURISDICTION.
- PROVIDE AUTOMATIC FIRE SPRINKLER SYSTEM ZONES AND COVERAGE REQUIREMENTS (DENSITIES AND HAZARDS) PER NFPA.
- THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE THE BASE REQUIREMENTS THAT ARE SHOWN IN THE DRAWINGS, FOR ITEMS NOT SHOWN ON THE DRAWINGS, PROVIDE THE MINIMUM REQUIREMENTS PER NFPA.
- ALL PIPING SHALL BE CONCEALED WHEN INSTALLED OUTSIDE OF THE MECHANICAL ROOM AND STORAGE AREAS, IF THE BUILDING'S CONSTRUCTION DOES NOT PERMIT THE CONCEALING OF THE PIPING, LOCATIONS AND ROUTING OF THE PIPING SHALL BE APPROVED BY ARCHITECT/OWNER PRIOR TO ANY INSTALLATION.
- ROUTE PIPING IN STRUCTURAL WEBBING OF FLOOR/CEILING JOIST IN AREAS WHERE PIPING IS EXPOSED.
- VERIFY THE LOCATION OF ALL OTHER TRADES FIXTURES, EQUIPMENT, ELECTRICAL PANELS, DUCT, EXHAUST HOODS WITH PLUMBING, HVAC AND ELECTRICAL PLANS, ROUTE PIPING AS REQUIRED PER NFPA.
- VERIFY LOCATION OF ALL SPACES, SUCH AS ATTICS, CLOSETS, CONCEALED SPACES, TUNNELS, MECHANICAL ROOMS, STORAGE AREAS, SKYLIGHTS, CLOUD CEILINGS, COOLERS / FREEZERS, CORROSIVE ENVIRONMENTS, CANOPIES AND OVERHEAD DOORS WITH ARCHITECTURAL PLANS, PROVIDE SPRINKLER COVERAGE (DENSITIES AND HAZARDS) AT THESE LOCATIONS PER NFPA. IF A DRY SYSTEM IS REQUIRED, THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE ANY ELECTRICAL REQUIREMENT WITH THE ARCHITECT/ENGINEER.
- PROVIDE FIRE SPRINKLER COVERAGE FOR AN ELEVATOR HOIST-WAY AND MACHINE EQUIPMENT ROOM AS REQUIRED PER THE ELEVATOR'S SHOP DRAWING AND NFPA.
- PROVIDE CLOSELY SPACED FIRE SPRINKLERS NEAR THE DRAFT STOPS FOR ALL VERTICAL OPENINGS PER NFPA.
- PROVIDE STANDPIPE HOSE CONNECTIONS FOR EXIT STAIRS AND HORIZONTAL EXITS AS REQUIRED PER THE LOCAL FIRE MARSHAL AND NFPA.
- ZONE RISER ISOLATION VALVES, TAMPER SWITCH, FLOW SWITCHES, PRESSURE GAUGE AND DRAIN VALVES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION AND CONCEALED FROM BUILDING OCCUPANT'S VIEW WHEN LOCATED OUTSIDE OF MECHANICAL ROOMS OR STORAGE AREAS.
- PROVIDE DRAIN DOWN VALVES AT LOW POINTS OF THE FIRE SPRINKLER SYSTEMS AND LOCATE THE INSPECTOR TEST AS AT THE MOST REMOTE END OF FIRE SPRINKLER SYSTEM ZONES PER NFPA.
- FIRE SPRINKLER HEADS LOCATED IN A PAINTED SOFFIT, WOOD SOFFIT, OR CEILING, SHALL HAVE ITS CONCEALED COVER PLATED COLOR MATCH WITH THAT OF THE ADJACENT SURFACE. THE SPRINKLER HEADS CONCEAL COVER PLATE COLOR SHALL BE FACTORY PAINTED, ALL FIRE SPRINKLER HEADS CONCEALED COVER PLATE COLORS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO ORDERING AND INSTALLATION.
- PROVIDE FIRE SPRINKLER COVERAGE IN AREAS OF THE EXISTING BUILDING WHERE NEW FIRE SPRINKLER MAIN SUPPLY PIPING IS ROUTED THROUGH PER NFPA.
- PROVIDE FIRE SPRINKLER COVERAGE INSIDE EXHAUST DUCTS THAT ARE 10 INCHES AND GREATER CONVEYING COMBUSTIBLE MATERIALS IN THE TECHNICAL EDUCATION AREA AS REQUIRED PER IBC, EBC, AND NFPA STANDARDS, STAINLESS STEEL FLEXIBLE BRAIDED SUPPLY AND PENDANT FIRE SPRINKLER HEADS ARE ACCEPTABLE, PROVIDE DRY BARREL TYPE FIRE SPRINKLER HEADS OR DRY SYSTEM FOR EXHAUST DUCT THAT IS EXPOSED TO FREEZING TEMPERATURES.
- PROVIDE EXTERIOR DUST COLLECTOR WITH A DRY FIRE SPRINKLER PIPE CONNECTION, PROVIDE GALVANIZED PIPE AND FITTINGS OUTSIDE OF THE BUILDING, COORDINATE FINAL LOCATION, SIZE AND FITTING TYPE WITH HVAC CONTRACTOR.
- PROVIDE A WATER DELUGE SYSTEM FOR 2 HOUR PROSCENIUM OPENING, FIRE SPRINKLER HEADS SHALL BE OPEN-HEAD TYPE WITH ELECTRIC HEAT DETECTION SYSTEM, COORDINATE PIPE ROUTING IN AREAS WITH THEATER LIGHTS AND RIGGING EQUIPMENT PRIOR TO DESIGN AND INSTALLATION, THE WATER DELUGE SYSTEM ZONE RISER SHALL BE A DRY TYPE VALVE AND WITH AIR COMPRESSOR.
- PROVIDE PERFORMANCE STAGES WITH ORDINARY HAZARD GROUP 2 DESIGN CRITERIA FIRE SPRINKLER COVERAGE, THE FIRE SPRINKLER HEADS SHALL BE PLACED BELOW ALL PLATFORMS AND CATWALKS, THE FIRE SPRINKLERS PIPING SHALL BE BLACK STEEL AND FIRE SPRINKLERS HEADS SHALL BE HIGH TEMPERATURE UPRIGHT OR PENDANT WITH A BRASS FINISH, COORDINATE ALL PIPE ROUTING IN AREAS WITH THEATER LIGHTS AND RIGGING EQUIPMENT PRIOR TO DESIGN AND INSTALLATION, PROVIDE CLASS II FIRE HOSE CONNECTION AND HOSE CABINET ON EACH SIDE OF THE STAGE OPENING PER NFPA.



FIRE PROTECTION PLAN

1/4" = 1'-0" (22" x 34") 0 2 4 8
1/8" = 1'-0" (11" x 17")

PROJECT DATE:	DEC 23, 2025	DRAWN BY:	BL	REVISIONS	BY
		DESIGNED BY:	AE		
		CHECKED BY:	AE		



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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

**WELL AND BUILDING
FLOOR PLAN - FIRE PROTECTION**

PROJECT NO.
05323007.1
SHEET
95FP101

GENERAL PLUMBING NOTES

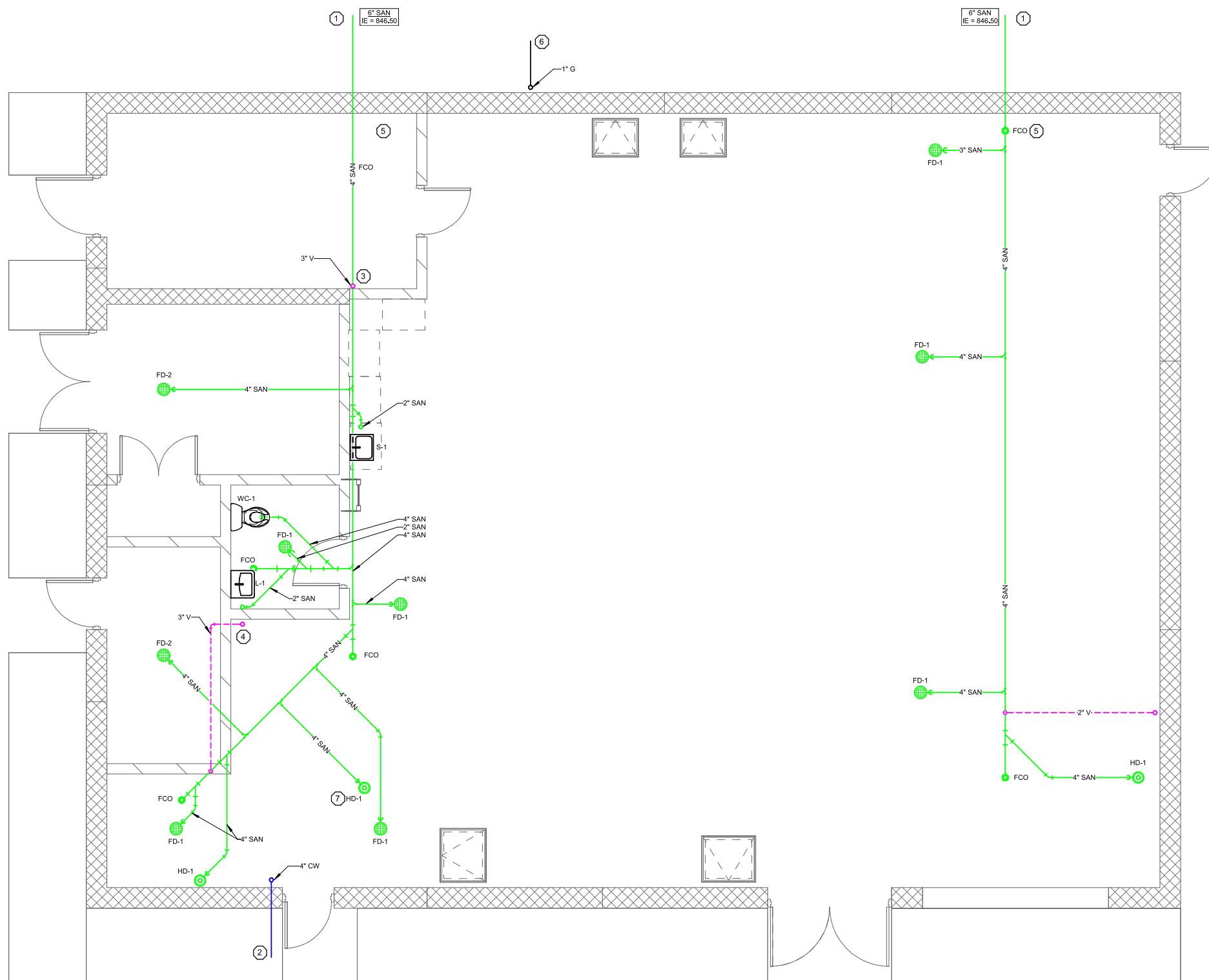
A. SEE GENERAL NOTES ON SHEET 95P001.
 B. SEE SHEET 95P700 FOR EQUIPMENT SCHEDULES.

LEGEND

CO	CLEAN OUT
—	SANITARY DRAIN
- - -	SANITARY VENT
- - - -	DOMESTIC (POTABLE W1) WATER, COLD
- - - -	DOMESTIC (POTABLE W1) WATER, HOT
- - - -	DOMESTIC (NON-POTABLE W2) WATER
- - - -	DOMESTIC WATER, TEMPERED
— G —	NATURAL GAS
2"(3.0)	PIPE SIZE (Fixture Units)
2" BI (100 @ 2 PSI)	PIPE SIZE, MATERIAL (CFH/MBH @ PRESSURE)
△	VALVE
VTR	VENT ROOF TERMINAL
CO	CLEANOUT

KEY NOTES

1. RUN SANITARY BUILDING DRAIN BELOW FOOTING OUT TO LOCATION SHOWN OUTSIDE BUILDING. SITE UTILITY CONTRACTOR TO CONNECT AT THIS LOCATION AND EXTEND DRAIN TO DISCHARGE LOCATION - SEE SITE PLAN.
2. SITE UTILITY CONTRACTOR TO EXTEND DOMESTIC WATER SERVICE FROM MUNICIPAL MAIN TO LOCATION SHOWN. PLUMBING CONTRACTOR TO CONNECT AND EXTEND FROM LOCATION SHOWN, UNDER FOOTING TO INSIDE BUILDING.
3. RELIEF VENT. CONNECT TO TOP OF HORIZONTAL DRAIN PIPE. RUN UNDERGROUND TO LOCATION SHOWN. ROUTE ABOVE FLOOR AND TIE IN WITH VENT STACK.
4. CIRCUIT VENT. CONNECT TO TOP OF HORIZONTAL DRAIN PIPE. RUN UNDERGROUND TO LOCATION SHOWN. ROUTE ABOVE FLOOR AND TIE IN WITH VENT STACK.
5. BUILDING CLEANOUT. PROVIDE VERTICAL DROP IN BUILDING DRAIN AT THIS LOCATION TO RUN UNDER FOOTING.
6. BELOW GRADE NATURAL GAS. ROUTE UNDERGROUND TO LOCATION SHOWN.
7. COORDINATE FINAL LOCATION OF HUB DRAIN WITH PROCESS CONTRACTOR.



UNDERGROUND FLOOR PLAN

1/4" = 1'-0" (22" x 34") 0 2 4 8
 1/8" = 1'-0" (11" x 17")

PROJECT DATE:	DEC 23, 2025	DRAWN BY:	BL	REVISIONS	BY
		DESIGNED BY:	AE		
		CHECKED BY:	AE		



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WELL #9 WATER TREATMENT FACILITY - PHASE 1
 CITY OF MENOMONIE
 DUNN COUNTY, WISCONSIN

WELL AND BUILDING
 UNDERGROUND FLOOR PLAN

PROJECT NO.
 05323007.1
 SHEET
 95P101

GENERAL PLUMBING NOTES

A. SEE GENERAL NOTES ON SHEET 95P001.

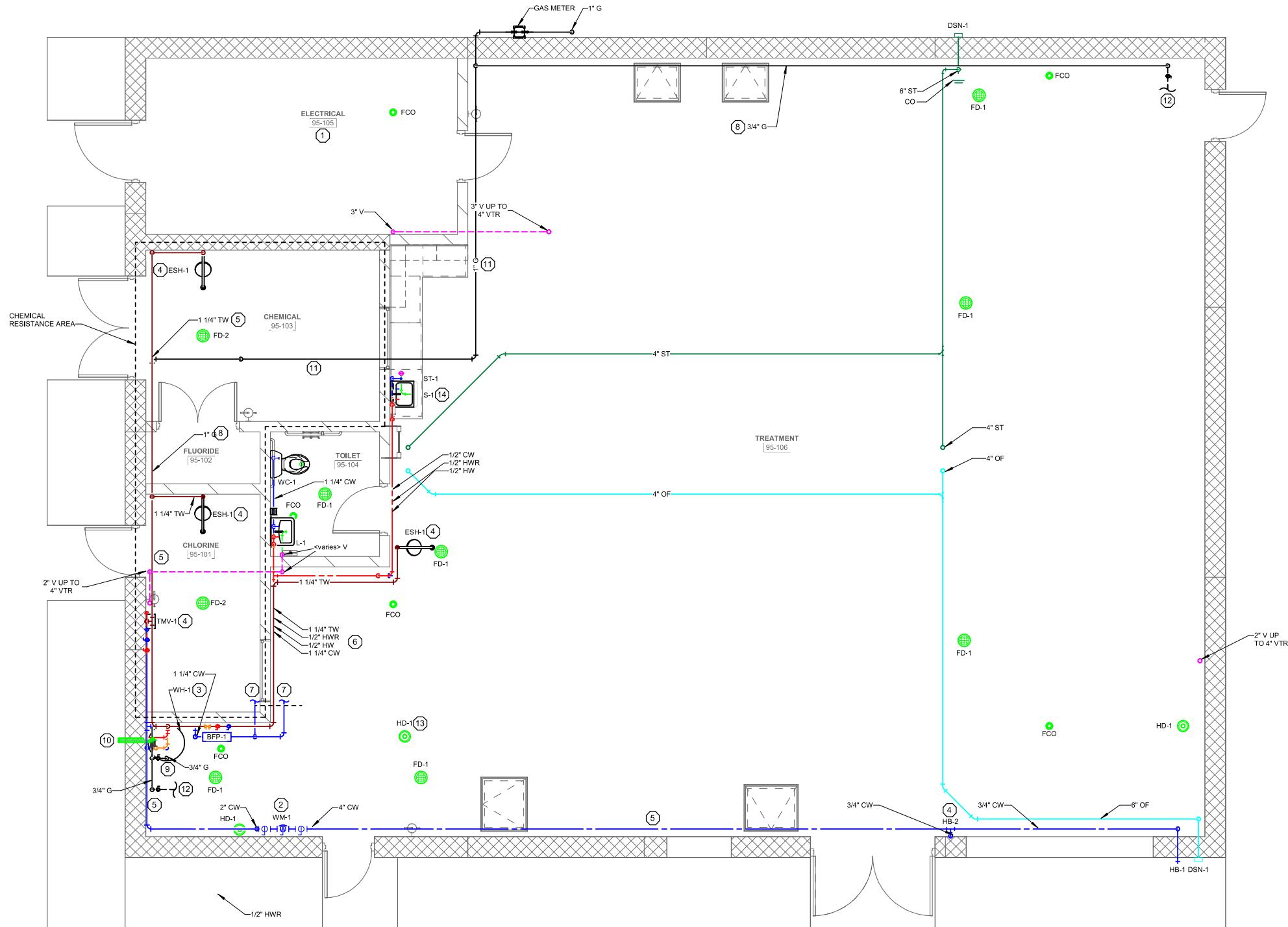
B. SEE SHEET 95P700 FOR EQUIPMENT SCHEDULES.

LEGEND

CO	CLEAN OUT
—	SANITARY DRAIN
---	SANITARY VENT
---	DOMESTIC (POTABLE W1) WATER, COLD
— -	DOMESTIC (POTABLE W1) WATER, HOT
---	DOMESTIC (NON-POTABLE W2) WATER
---	DOMESTIC WATER, TEMPERED
— G —	NATURAL GAS
2" (3.0)	PIPE SIZE (Fixture Units)
2" BI (100 @ 2 PSI)	PIPE SIZE, MATERIAL (CFH/MBH @ PRESSURE)
▷	VALVE
VTR	VENT ROOF TERMINAL
CO	CLEANOUT

KEY NOTES

1. ELECTRICAL EQUIPMENT/PANELS, TYP - SEE ELECTRICAL. DO NOT RUN PIPES ABOVE PANELS.
2. WATER METER w/ SHUT-OFF AND BY-PASS VALVES (PROVDE LOCK-OUT TYPE VALVES).
3. INSTALL WATER HEATER ON 3" THICK FABRICATED EQUIPMENT PAD.
4. ROUTE PIPING DOWN WALL SURFACE TO FIXTURE.
5. ROUTE PIPING AT 16'9" AFF AND SUPPORT FROM WALL.
6. WATER PIPING TO BE RUN STACKED AND SUPPORTED ON WALL. SEE ISOMETRIC FOR ADDITIONAL DETAIL.
7. PROCESS EQUIPMENT CONNECTION - VERIFY FINAL CONNECTION SIZE AND LOCATION WITH PROCESS MECHANICAL CONTRACTOR. PROVIDE SHUT-OFF VALVE AND 18" LONG FLEXIBLE CONNECTOR AT CONNECTION. PIPE SHALL NOT BE SUPPORTED FROM EQUIPMENT. PROVIDE SUPPORTS AS REQUIRED, INCLUDING FROM WALL/ROOF TO FLOOR.
8. ROUTE PIPING AT 16'6" AFF AND SUPPORT FROM WALL.
9. ROUTE GAS LINE DOWN WALL SURFACE TO WATER HEATER CONNECTION. PROVIDE PRESSURE REGULATING VALVE AFTER SHUT-OFF VALVE. VERIFY FINAL SIZE AND LOCATION w/ EQUIPMENT MANUFACTURER.
10. ROUTE INTAKE AIR AND COMBUSTION FLUE VENT UP WALL AND OUT THRU WALL AT MINIMUM 12'-8" AFF. PROVIDE CONCENTRIC VENT KIT NEAR WALL PENETRATION. TERMINATE VENT w/ HOOD.
11. SUPPORT PIPING FROM ROOF.
12. GAS HEATER CONNECTION - VERIFY FINAL CONNECTION SIZE AND LOCATION WITH HVAC CONTRACTOR. PROVIDE SHUT-OFF VALVE AND 18" LONG FLEXIBLE CONNECTOR AT CONNECTION. PIPE SHALL NOT BE SUPPORTED FROM EQUIPMENT. PROVIDE SUPPORTS AS REQUIRED, INCLUDING FROM WALL/ROOF TO FLOOR.
13. COORDINATE FINAL LOCATION OF HUB DRAIN WITH PROCESS CONTRACTOR.
14. AIR ADMITTANCE VALVE TO BE INSTALLED AT SANITARY CONNECTION OF SINK.



FLOOR PLAN

GENERAL PLUMBING NOTES

A. SEE GENERAL NOTES ON SHEET 95P001.

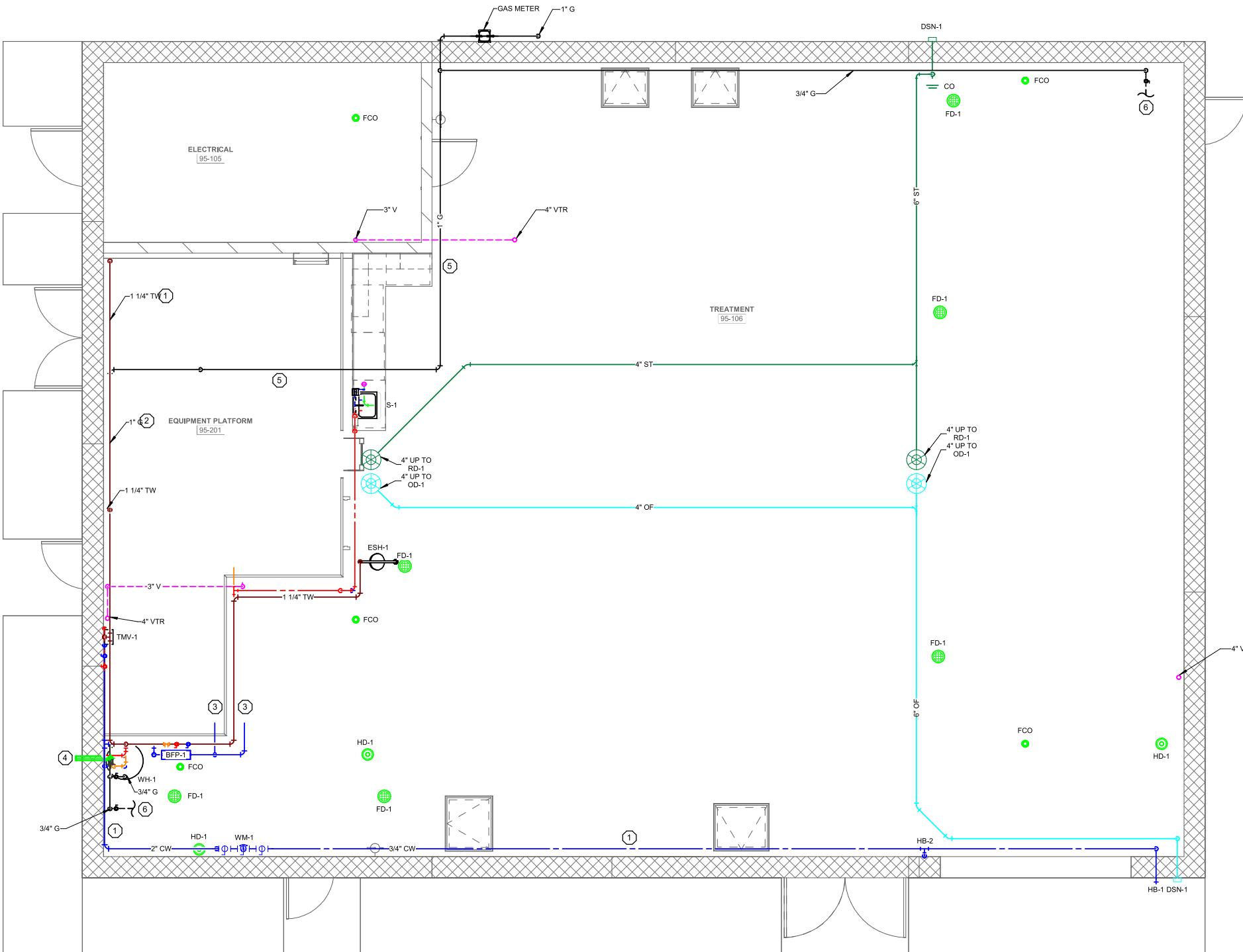
B. SEE SHEET 95P700 FOR EQUIPMENT SCHEDULES.

LEGEND

CO	CLEAN OUT
	SANITARY DRAIN
-----	SANITARY VENT
-----	DOMESTIC (POTABLE W1) WATER, COLD
-----	DOMESTIC (POTABLE W1) WATER, HOT
-----	DOMESTIC (NON-POTABLE W2) WATER
-----	DOMESTIC WATER, TEMPERED
G	NATURAL GAS
2"(3.0)	PIPE SIZE (Fixture Units)
2" BI (100 @ 2 PSI)	PIPE SIZE, MATERIAL (CFH/MBH @ PRESSURE)
▷	VALVE
VTR	VENT ROOF TERMINAL
CO	CLEANOUT

KEY NOTES

1. ROUTE PIPING AT 16'9" AFF AND SUPPORT FROM WALL.
2. ROUTE PIPING AT 16'6" AFF AND SUPPORT FROM WALL.
3. PROCESS EQUIPMENT CONNECTION - VERIFY FINAL CONNECTION SIZE AND LOCATION WITH PROCESS MECHANICAL CONTRACTOR. PROVIDE SHUT-OFF VALVE AND 18" LONG FLEXIBLE CONNECTOR AT CONNECTION. PIPE SHALL NOT BE SUPPORTED FROM EQUIPMENT. PROVIDE SUPPORTS AS REQUIRED, INCLUDING FROM WALL/ROOF TO FLOOR.
4. ROUTE INTAKE AIR AND COMBUSTION FLUE VENT UP WALL AND OUT THRU WALL AT MINIMUM 12'-8" AFF. PROVIDE CONCENTRIC VENT KIT NEAR WALL PENETRATION. TERMINATE VENT w/ HOOD.
5. SUPPORT PIPING FROM ROOF.
6. GAS HEATER CONNECTION - VERIFY FINAL CONNECTION SIZE AND LOCATION WITH HVAC CONTRACTOR. PROVIDE SHUT-OFF VALVE AND 18" LONG FLEXIBLE CONNECTOR AT CONNECTION. PIPE SHALL NOT BE SUPPORTED FROM EQUIPMENT. PROVIDE SUPPORTS AS REQUIRED, INCLUDING FROM WALL/ROOF TO FLOOR.



MEZZANINE FLOOR PLAN

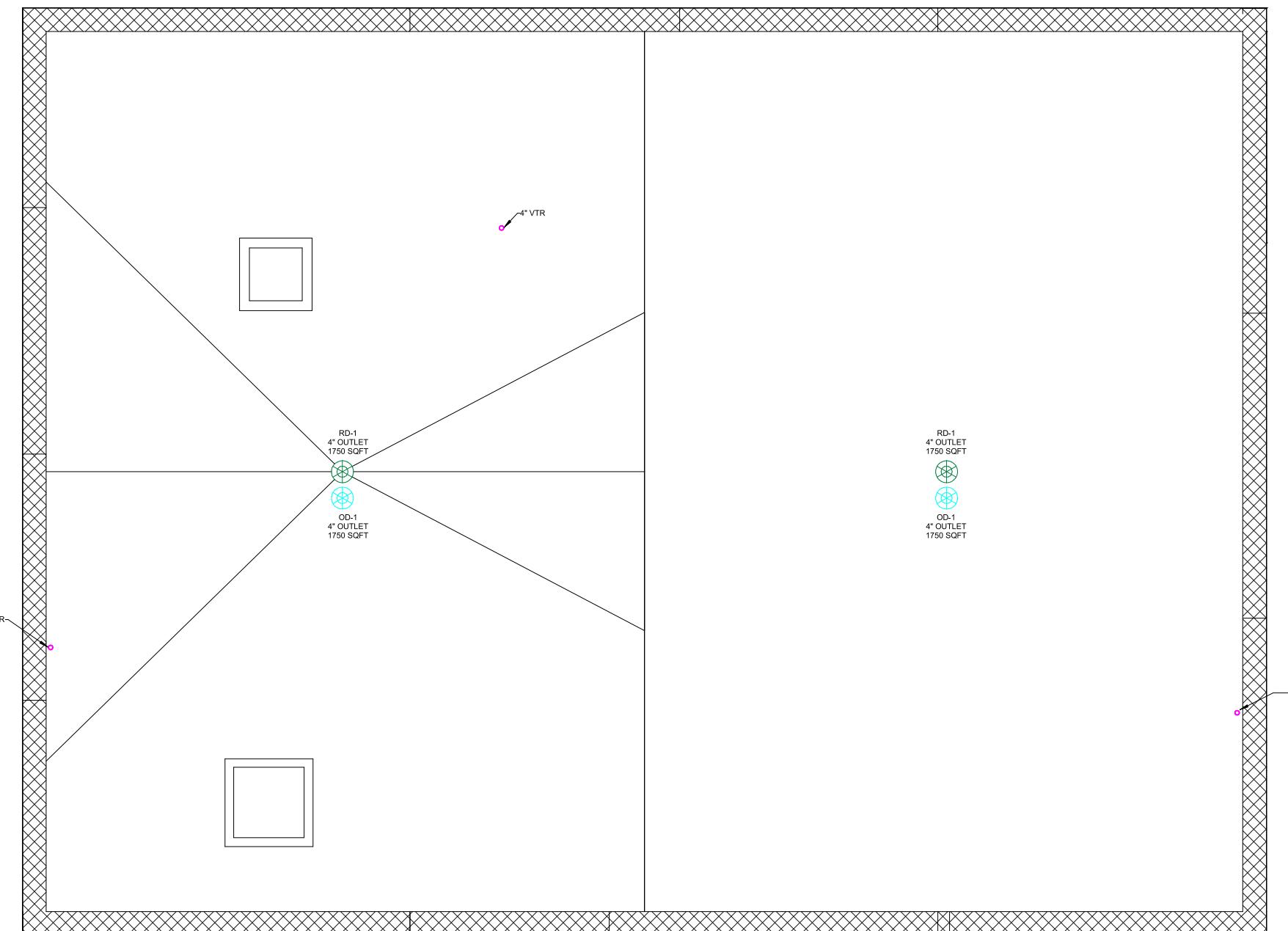
GENERAL PLUMBING NOTES

A. SEE GENERAL NOTES ON SHEET 95P001.

B. SEE SHEET 95P700 FOR EQUIPMENT SCHEDULES.

LEGEND

CO	CLEAN OUT
—	SANITARY DRAIN
- - - - -	SANITARY VENT
- - - - -	DOMESTIC (POTABLE W1) WATER, COLD
— - - - -	DOMESTIC (POTABLE W1) WATER, HOT
- - - - -	DOMESTIC (NON-POTABLE W2) WATER
— - - - -	DOMESTIC WATER, TEMPERED
— G —	NATURAL GAS
2"(3.0)	PIPE SIZE (Fixture Units)
2" BI (100 @ 2 PSI)	PIPE SIZE, MATERIAL (CFH/MBH @ PRESSURE)
❖	VALVE
VTR	VENT ROOF TERMINAL
CO	CLEANOUT



ROOF PLAN

1/4" = 1'-0" (22"x34") 0 2 4 8
1/8" = 1'-0" (11"x17")

PROJECT DATE:	DEC 23, 2025	DRAWN BY:	BL	No.	DATE	REVISIONS	BY
		DESIGNED BY:	AE				
		CHECKED BY:	AE				

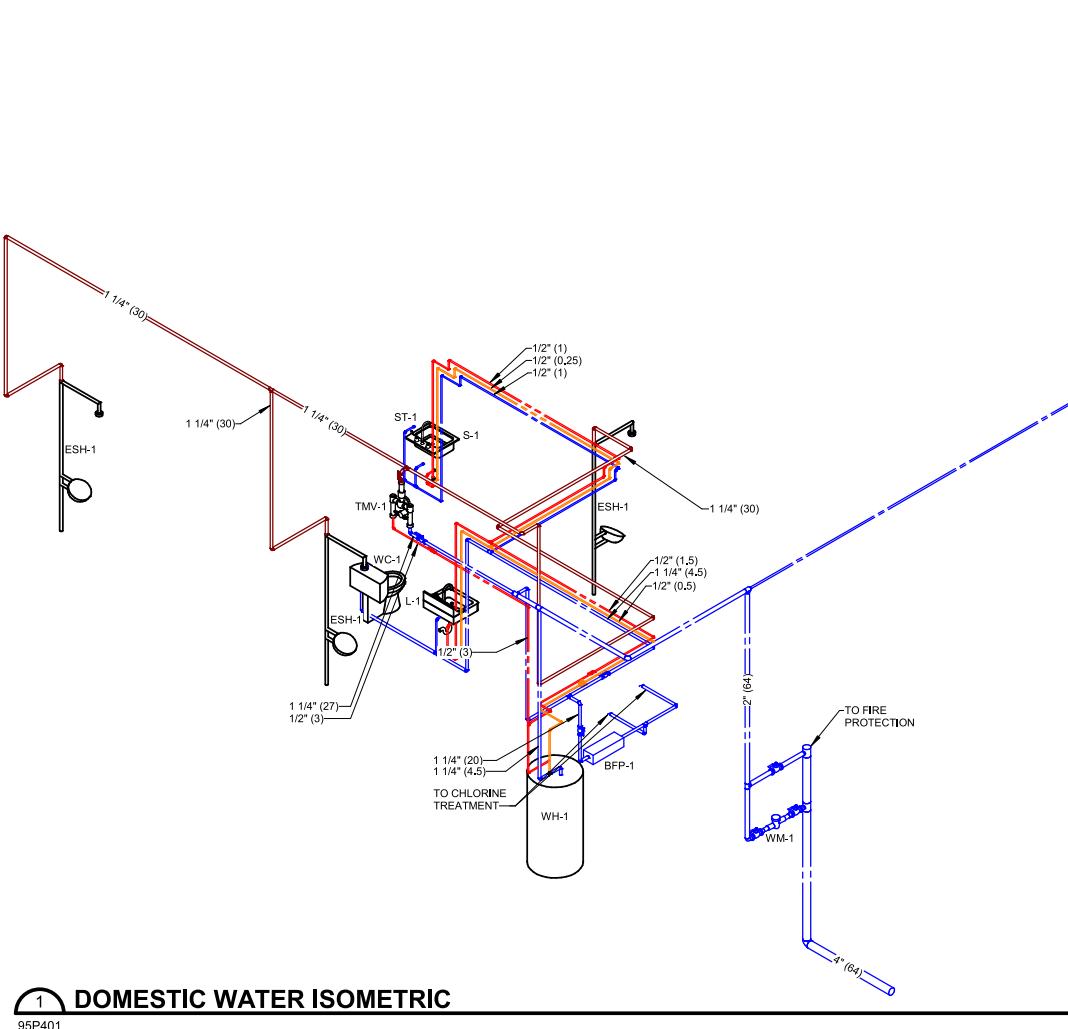


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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

WELL AND BUILDING
ROOF PLAN

PROJECT NO.
05323007-1
SHEET
95P301



1 DOMESTIC WATER ISOMETRIC
95P401

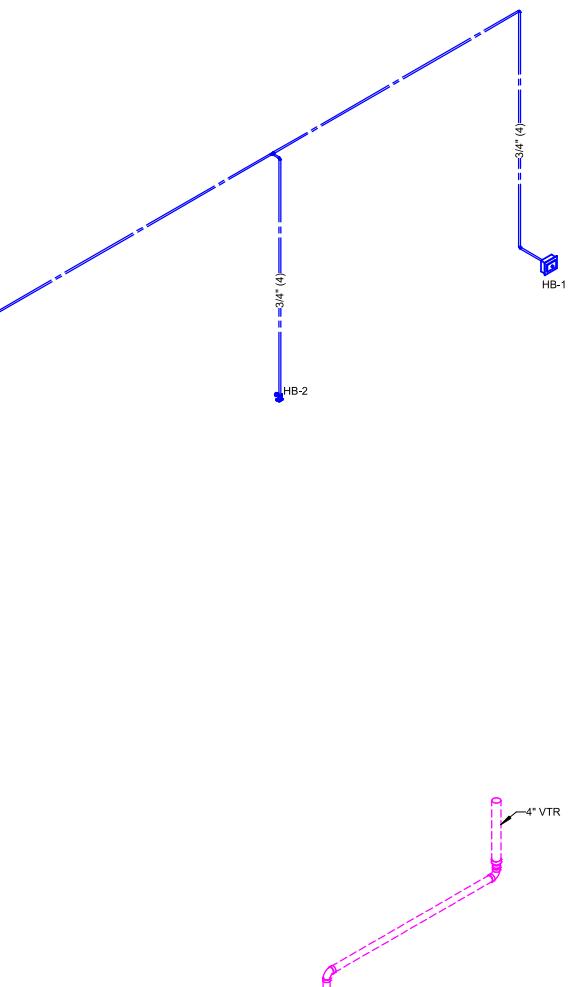
Autodesk DocID: 05323007 Menomonie Well #9 Water Treatment Facility

PROJECT DATE:	DEC 23, 2025	DRAWN BY:	BL	No.	DATE	REVISIONS	BY
PLOT DATE:	12/19/2025 12:00:33	DESIGNED BY:	AE				
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2 STORM ISOMETRIC
95P401



DOMESTIC WATER ISOMETRIC NOTES
SEE FOUNDATION / FLOOR PLANS AND PLUMBING CONNECTION SCHEDULE ON THE GENERAL NOTES SHEET FOR WATER BRANCH PIPE SIZE TO FIXTURE.
ALL VENT PIPING SERVING INDIVIDUAL WATER CLOSETS WITH CARRIERS SHALL BE 2" UNLESS OTHERWISE NOTED.
PROVIDE WATER HAMMER ARRESTORS ON ALL INDIVIDUAL FLUSH VALVES, OR BANK OF FLUSH VALVES, AND QUICK CLOSING VALVES.
HOT AND COLD WATER SUPPLY UNIT VALUES ARE SHOWN AS WATER FIXTURE UNITS.
HOT WATER RETURN UNIT VALUES ARE SHOWN AS GPM.

SANITARY ISOMETRIC NOTES
SEE FOUNDATION / FLOOR PLANS AND PLUMBING CONNECTION SCHEDULE ON THE GENERAL NOTES SHEET FOR DRAIN / WASTE BRANCH PIPE SIZE TO FIXTURE.
ALL VENT PIPING SERVING INDIVIDUAL WATER CLOSETS WITH CARRIERS SHALL BE 2" UNLESS OTHERWISE NOTED.
ALL VENT PIPING SERVING INDIVIDUAL FIXTURES, OTHER THAN WATER CLOSETS WITH CARRIERS, SHALL BE 1-1/2" UNLESS OTHERWISE NOTED.
SANITARY DRAIN AND VENT UNIT VALUES ARE SHOWN AS DRAINAGE FIXTURE UNITS.

STORM & CLEAR WATER ISOMETRIC NOTES
UNIT VALUES ARE SHOWN AS GALLON PER MINUTE.

3 SANITARY AND VENT ISOMETRIC
95P401

WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

WELL AND BUILDING PLUMBING ISOMETRIC

PROJECT NO.
05323007.1
SHEET
95P401

GENERAL NOTES

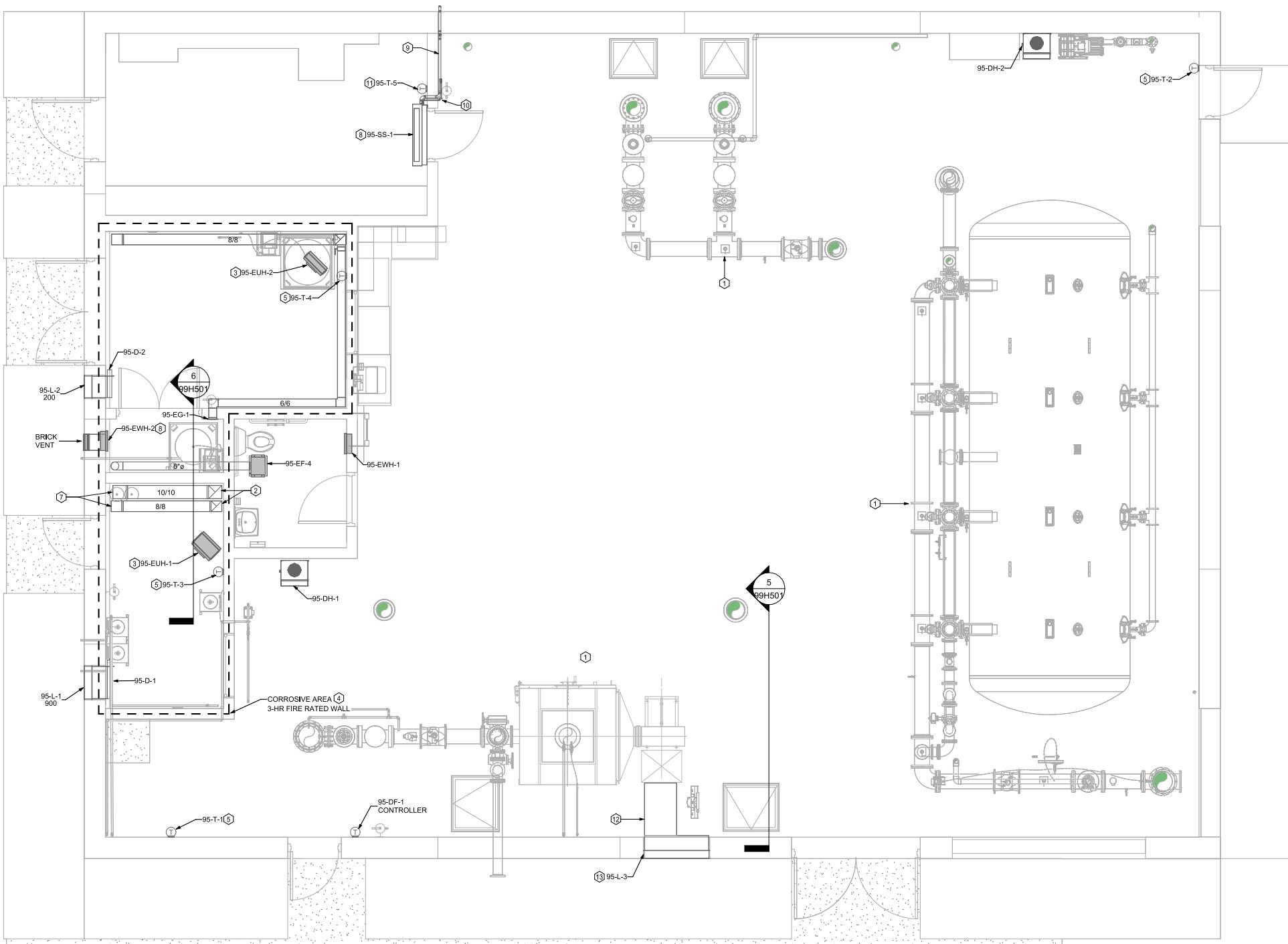
A. SEE GENERAL NOTES ON SHEET 99H501.
 B. SEE SHEET 99H601 FOR EQUIPMENT SCHEDULES.

KEY NOTES

1. PROCESS EQUIPMENT/PIPING, TYP - SEE PROCESS MECHANICAL.
2. ROUTE DUCT DOWN TO 12-INCHES AFF. TERMINATE WITH ALUMINUM SCREEN. RUN DUCT TIGHT ALONG WALL AND CEILING.
3. BOTTOM OF ELECTRIC UNIT HEATER SHALL BE MOUNTED 6'-0" A.F.F.
4. ALL EQUIPMENT, ACCESSORIES, AND WORK IN THIS AREA SHALL BE SUITABLE FOR A CORROSIVE (NEMA 4X) ENVIRONMENT.
5. INSTALL CONTROL DEVICE AT 3'-6" A.F.F.
6. BOTTOM OF ELECTRIC WALL HEATER SHALL BE MOUNTED 6'-2" A.F.F.
7. ROUTE DUCTWORK UP THROUGH FLOOR TO MEZZANINE. SEE CONTINUATION ON SHEET 95H102.
8. BOTTOM OF SPIT SYSTEM UNIT SHALL BE MOUNTED 8'-0" A.F.F.
9. ROUTE CONDENSATE WITH LOOP SEAL FROM INDOOR UNIT TO EXTERIOR WALL. ROUTE DOWN WALL AND PENETRATE WALL 12-INCHES ABOVE FLOOR. TERMINATE WITH DOWNTURNED ELBOW.
10. ROUTE REFRIGERANT LINESET BETWEEN UNITS PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SILICONE SEAL AT WALL PENETRATION.
11. SPLIT SYSTEM WIRED THERMOSTAT MOUNTED BELOW UNIT. MOUNT AT 3'-6" A.F.F.
12. INSTALL DUCTWORK FROM LOUVER TO INLET FLANGE ON AERATOR FAN. FIELD COORDINATE FINAL SIZE AND LOCATION. PROVIDE SHEET METAL COVERING ON REMAINING PORTION OF LOUVER. SEAL WEATHER TIGHT.
13. TOP OF LOUVER AT 8'-8". SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAIL.

LEGEND

	DAMPER, ACTUATED
	DAMPER, MANUAL BALANCE
	RETURN/EXHAUST DUCT (UPWARD FLOW)
	RETURN/EXHAUST DUCT (DOWNWARD FLOW)
	RETURN/EXHAUST DUCT - SINGLE LINE
	SUPPLY/OUTSIDE AIR DUCT (UPWARD FLOW)
	SUPPLY/OUTSIDE AIR DUCT (DOWNWARD FLOW)
	SUPPLY/OUTSIDE DUCT - SINGLE LINE
8/8(80)	DUCT SIZE (WIDTH x DEPTH) AND AIRFLOW RATE (CFM)
	SWITCH/SENSOR
	THERMOSTAT



FIRST FLOOR PLAN

1/4" = 1'-0" (22" x 34") 0 2 4 8
 1/8" = 1'-0" (11" x 17")

PROJECT DATE:	DEC 23, 2025	DRAWN BY:	ATW	No	DATE	REVISIONS	BY
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WELL #9 WATER TREATMENT FACILITY - PHASE 1
 CITY OF MENOMONIE
 DUNN COUNTY, WISCONSIN

**WELL AND BUILDING
 HVAC - FIRST FLOOR PLAN**

PROJECT NO.
 05323007.1
 SHEET
 95H101

GENERAL NOTES

A. SEE GENERAL NOTES ON SHEET 99H501.

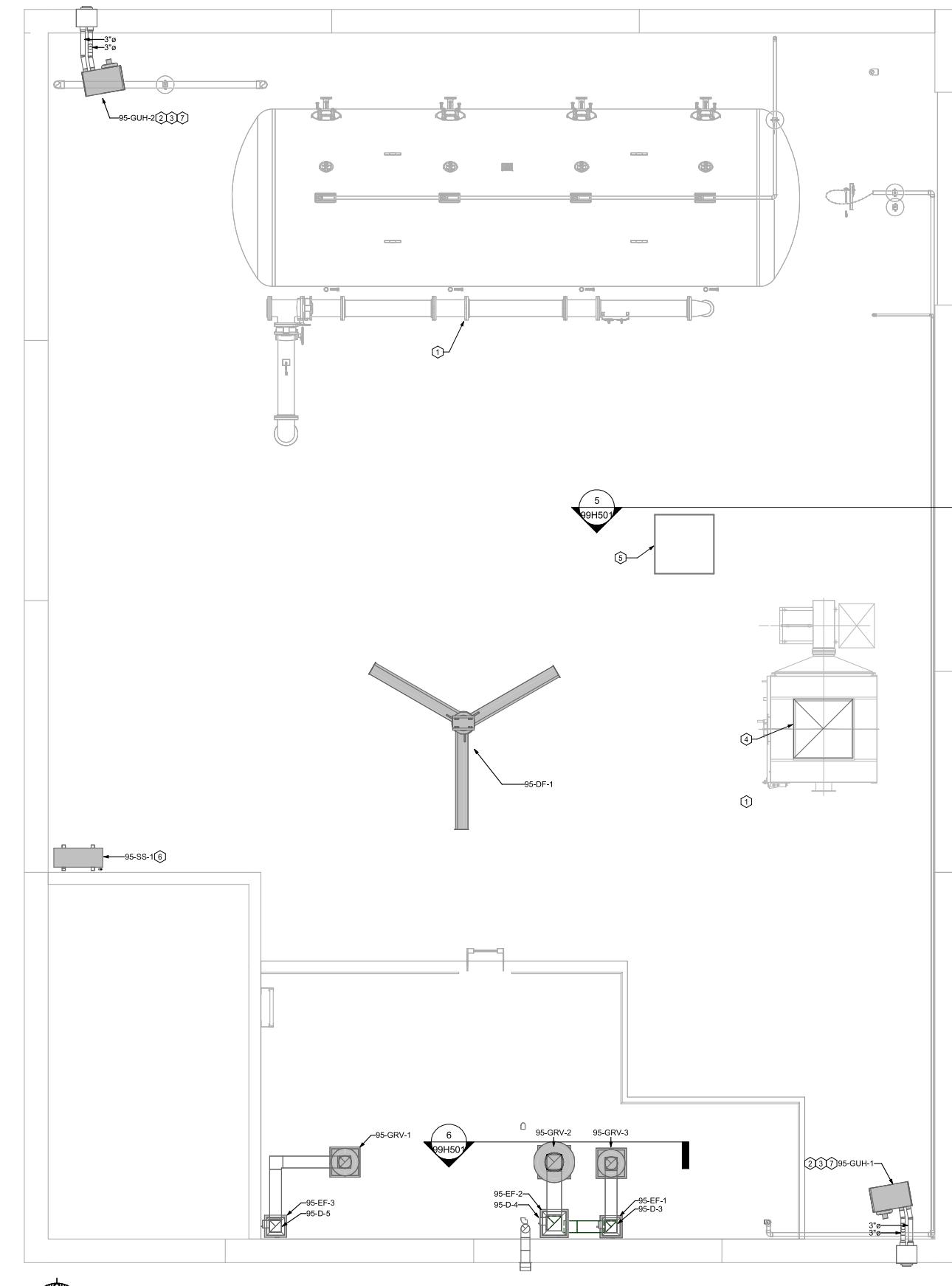
B. SEE SHEET 99H601 FOR EQUIPMENT SCHEDULES.

KEY NOTES

1. PROCESS EQUIPMENT/PIPING, TYP - SEE PROCESS MECHANICAL.
2. RUN COMBUSTION AIR AND FLUE VENT PIPING AS SHOWN. PROVIDE CONCENTRIC VENT KIT AS CLOSE TO EXTERIOR WALL AS POSSIBLE. RUN SINGLE VENT THROUGH WALL AND TERMINATE PER MFR INSTRUCTIONS. PROVIDE WEATHER AND VAPOR TIGHT SEAL AT WALL PENETRATION. ROUTE AS HIGH AS POSSIBLE.
3. CONNECT GAS TO NEW HVAC EQUIPMENT. PROVIDE DIRT LEG, SHUTOFF VALVE, AND REGULATOR. REGULATE DOWN TO MANUFACTURER RECOMMENDED OPERATING PRESSURE. SEE DETAIL 3/99H501.
4. INSTALL DUCTWORK FROM OUTLET FLANGE ON FORCED DRAFT AERATOR UP TO ROOF CURB. FIELD COORDINATE FINAL ROOF CURB SIZE AND LOCATION.
5. FIELD COORDINATE ROOF CURB SIZE AND LOCATION. PROVIDE INSULATED CURB CAP.
6. SPLIT SYSTEM CONDENSER SHOWN IN APPROXIMATE LOCATION. FIELD COORDINATE FINAL LOCATION OF EQUIPMENT. PROVIDE WALL SUPPORT STAND FOR UNIT.
7. MOUNT GAS FIRED UNIT HEATERS 14'-0" A.F.F.
8. FANS AND DUCTWORK SHALL BE SUPPORTED FROM THE WALL.

LEGEND

	DAMPER, ACTUATED
	DAMPER, MANUAL BALANCE
	RETURN/EXHAUST DUCT (UPWARD FLOW)
	RETURN/EXHAUST DUCT (DOWNWARD FLOW)
	RETURN/EXHAUST DUCT - SINGLE LINE
	SUPPLY/OUTSIDE AIR DUCT (UPWARD FLOW)
	SUPPLY/OUTSIDE AIR DUCT (DOWNWARD FLOW)
	SUPPLY/OUTSIDE DUCT - SINGLE LINE
8/8(80)	DUCT SIZE (WIDTH x DEPTH) AND AIRFLOW RATE (CFM)
	SWITCH/SENSOR
	THERMOSTAT



MEZZANINE PLAN

1/4" = 1'-0" (22"x34")	0	2	4	8
1/8" = 1'-0" (11"x17")				



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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

WELL AND BUILDING HVAC - MEZZANINE PLAN

PROJECT NO.
05323007.1
SHEET
95H102

GENERAL NOTES

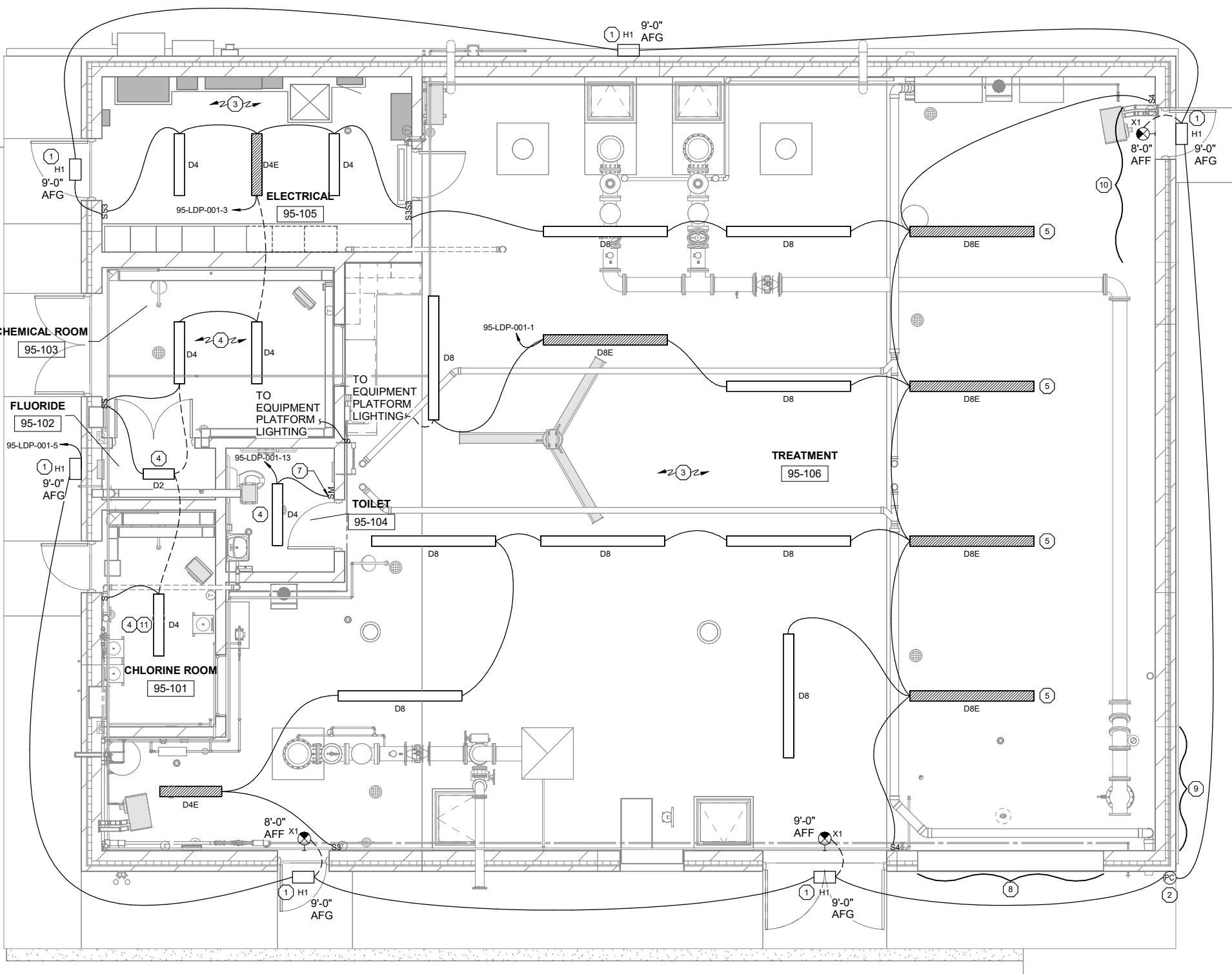
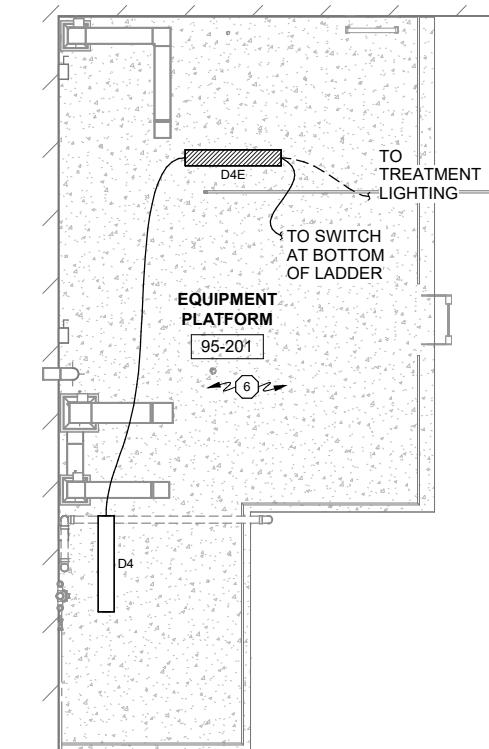
- A. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM ENGINEER PRIOR BEFORE CONTINUING WITH CONSTRUCTION.
- B. 120V HOMERUN WIRING SHALL BE A MINIMUM OF (2) #12 & #12G OR AS NOTED OTHERWISE. SIZE FOR VOLTAGE DROP.
- C. CONDUITS SHALL BE 3/4" MINIMUM OR AS NOTED OTHERWISE.
- D. MOUNT LIGHT SWITCHES AT 42" ABOVE FINISHED FLOOR TO CENTERLINE. ALL SWITCHES IN CLASSIFIED LOCATIONS SHALL BE EXPLOSION PROOF.
- E. SHADED FIXTURE (■■■) OR FIXTURE TAG SUFFIXED WITH "E" INDICATES EMERGENCY FIXTURE. REFER TO FIXTURE SCHEDULE.
- F. REFER TO SECTION 26 05 00 FOR CONDUIT, BOX, AND HARDWARE USAGE REQUIREMENTS FOR THE ENVIRONMENT CLASSIFICATION SCHEDULED FOR EACH SPACE. REFER TO SPECIFICATIONS REGARDING CLASSIFICATIONS FOR EXTERIOR AND ANY UNLISTED SPACES.

ENVIRONMENT CLASSIFICATIONS

SPACE NUMBER	SPACE NAME / DESCRIPTION	ENVIRONMENT CLASSIFICATIONS
95-101	CHLORINE ROOM	NEW CONSTRUCTION - CORROSIVE
95-102	FLUORIDE	NEW CONSTRUCTION - CORROSIVE
95-103	CHEMICAL ROOM	NEW CONSTRUCTION - CORROSIVE
95-104	TOILET	NEW CONSTRUCTION - DAMP
95-105	ELECTRICAL	NEW CONSTRUCTION - DRY
95-106	TREATMENT	NEW CONSTRUCTION - DAMP
95-201	EQUIPMENT PLATFORM	NEW CONSTRUCTION - DAMP

KEY NOTES

- 1 EXTERIOR FIXTURE SHALL BE CONTROLLED BY SWITCH AND PHOTOCELL. WIRE SWITCH AND PHOTOCELL IN SERIES SUCH THAT PHOTOCELL OPERATES FIXTURES WHEN SWITCH IS ON.
- 2 PROVIDE PHOTOCELL, TORK MODEL #2001, OR EQUAL, TO CONTROL EXTERIOR WALL PACK FIXTURES.
- 3 PROVIDE PENDANT MOUNT FOR FIXTURES IN THIS ROOM. COORDINATE LENGTH OF PENDANT TO INSTALL LIGHTS 13'AFF AND BELOW HVAC DUCTS AND OTHER OBSTACLES ON CEILING.
- 4 MOUNT FIXTURES IN THIS ROOM TIGHT TO CEILING.
- 5 PROVIDE PENDANT MOUNT FOR FIXTURES LOCATED ABOVE FILTER. COORDINATE LENGTH OF PENDANT TO INSTALL LIGHTS 14'AFF AND BELOW HVAC DUCTS AND OTHER OBSTACLES ON CEILING.
- 6 MOUNT FIXTURES ABOVE EQUIPMENT PLATFORM TIGHT TO THE CEILING.
- 7 PIR OCCUPANCY SENSOR SWITCH FOR CONTROL OF RESTROOM LIGHTING AND EXHAUST FAN, LEVITON ODS10-IDT OR EQUAL, CONFIGURE FOR AUTO-ON/AUTO-OFF OR MANUAL-ON/AUTO-OFF PER OWNER REQUIREMENTS.
- 8 12'-0" AREA OF BREAKOUT WALL, REFER TO ARCHITECTURAL DRAWINGS. NO CONDUIT MAY BE INSTALLED WITHIN THE BREAKOUT AREA OR WITHIN 6-INCHES OF EDGE.
- 9 8'-0" AREA OF FUTURE OPENING, REFER TO ARCHITECTURAL DRAWINGS. NO CONDUIT MAY BE INSTALLED WITHIN THE BREAKOUT AREA OR WITHIN 6-INCHES OF EDGE.
- 10 10'-0" AREA OF FUTURE OPENING, REFER TO ARCHITECTURAL DRAWINGS. ROUTE CONDUIT TO MINIMIZE THE AMOUNT WITHIN THE BREAKOUT AREA AND EXTENDING 6-INCHES FROM ALL EDGES.
- 11 COORDINATE SMOKE DETECTOR MOUNTING LOCATION WITH LIGHTING PLAN. MOUNT PER MANUFACTURER'S REQUIREMENTS. REFER TO SHEET 95E105.



95 - GROUND LEVEL - LIGHTING PLAN

1/4" = 1'-0" (22" x 34") 0 2 4 8
1/8" = 1'-0" (11" x 17")

95 - MEZZANINE - LIGHTING PLAN

1/4" = 1'-0" (22" x 34") 0 2 4 8
1/8" = 1'-0" (11" x 17")



PROJECT DATE:	DEC 23, 2025	DRAWN BY:	CJC	REVISIONS	BY
DESIGNED BY:	CJC				
CHECKED BY:	LET				

PROJECT DATE:	DEC 23, 2025	DRAWN BY:	CJC	REVISIONS	BY
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GENERAL NOTES:

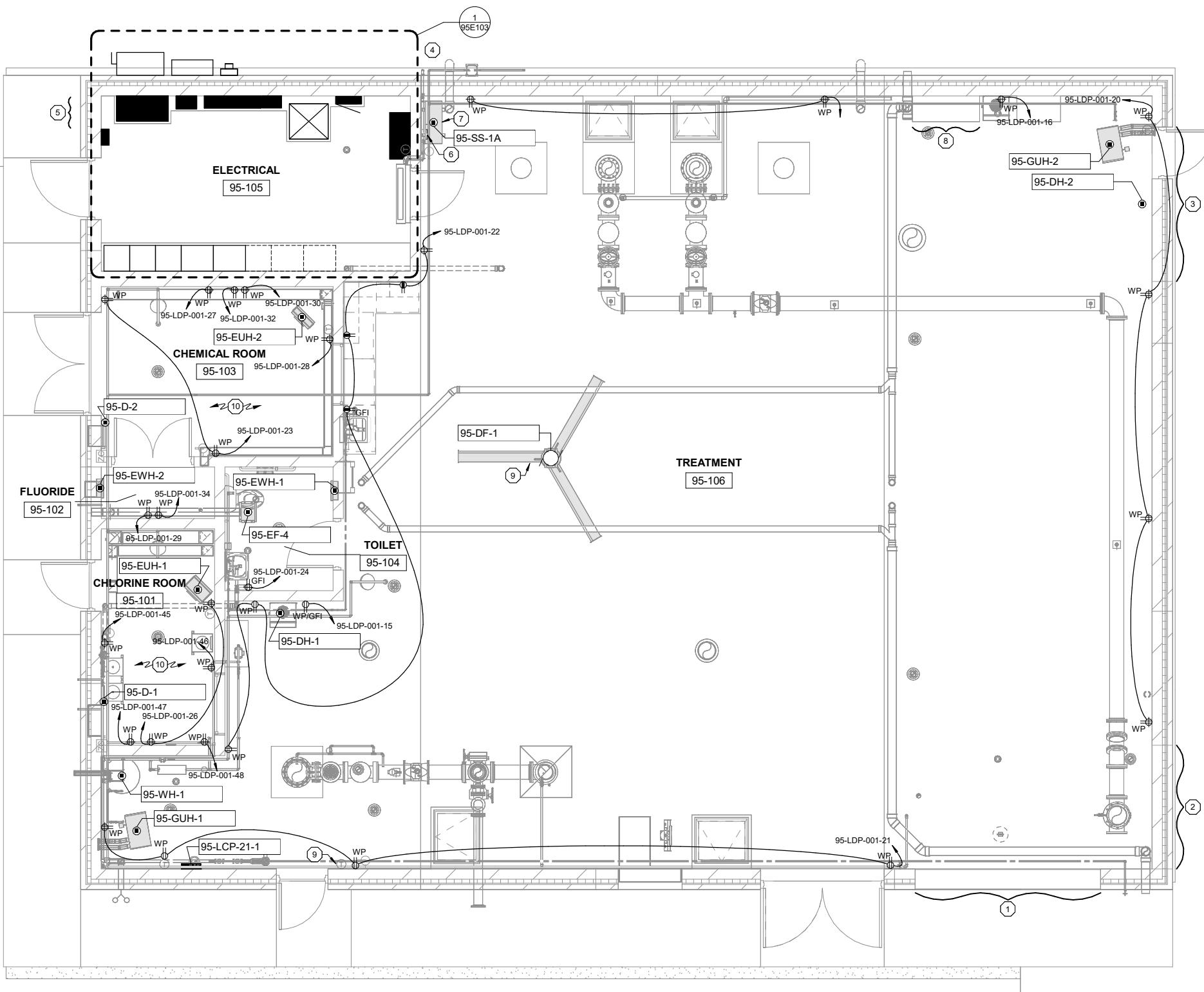
- A. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ENGINEER BEFORE CONTINUING WITH CONSTRUCTION.
- B. 120V HOMERUN WIRING SHALL BE MINIMUM OF (2) #12 & #12G IN 3/4" C UNLESS OTHERWISE NOTED. SIZE FOR VOLTAGE DROP.
- C. SEE ONE-LINE DIAGRAMS, PANEL SCHEDULES, AND FIELD DEVICES WIRING SCHEDULES FOR WIRING OF ALL PROCESS AND INSTRUMENTATION EQUIPMENT.
- D. INSTALL FIELD INSTRUMENTS PER DETAIL REFERENCED IN FIELD DEVICE WIRING SCHEDULE.
- E. REFER TO SECTION 26 05 00 FOR CONDUIT, BOX AND HARDWARE USAGE REQUIREMENTS FOR THE ENVIRONMENT CLASSIFICATION SCHEDULED FOR EACH SPACE. "EXISTING CONSTRUCTION - WET" CLASSIFICATION SHALL APPLY TO ANY UNLISTED SPACE AND TO ALL SPACES DEPICTED WHERE NO ENVIRONMENT CLASSIFICATION SCHEDULE IS PRESENT ON THIS PLAN.

ENVIRONMENT CLASSIFICATIONS

SPACE NUMBER	SPACE NAME / DESCRIPTION	ENVIRONMENT CLASSIFICATIONS
95-101	CHLORINE ROOM	NEW CONSTRUCTION - CORROSIVE
95-102	FLUORIDE	NEW CONSTRUCTION - CORROSIVE
95-103	CHEMICAL ROOM	NEW CONSTRUCTION - CORROSIVE
95-104	TOILET	NEW CONSTRUCTION - DAMP
95-105	ELECTRICAL	NEW CONSTRUCTION - DRY
95-106	TREATMENT	NEW CONSTRUCTION - DAMP

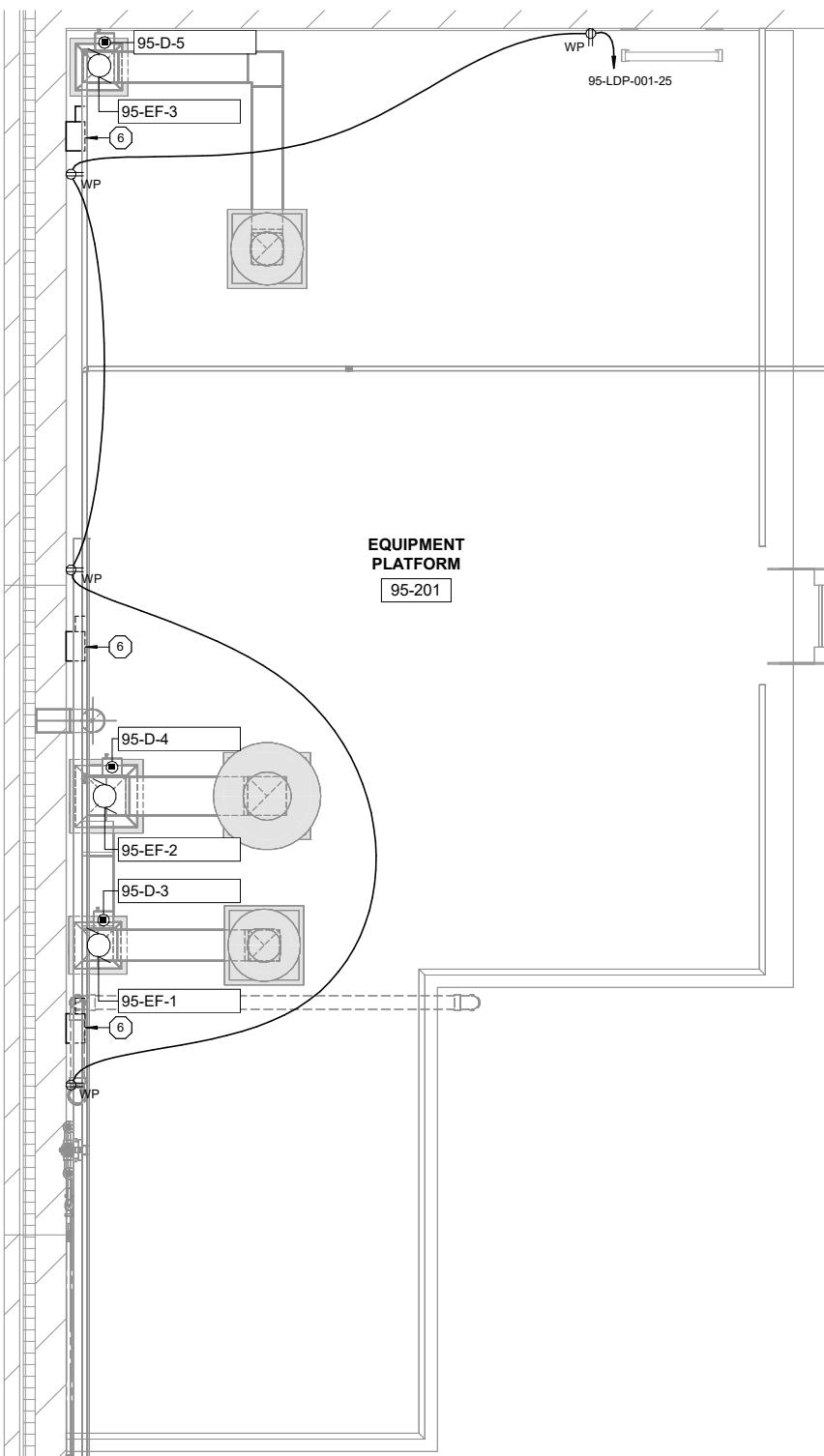
KEY NOTES (X)

- 1 12'-0" AREA OF BREAKOUT WALL, REFER TO ARCHITECTURAL DRAWINGS. NO CONDUIT MAY BE INSTALLED WITHIN THE BREAKOUT AREA OR WITHIN 6-INCHES OF EDGE.
- 2 8'-0" AREA OF FUTURE OPENING, REFER TO ARCHITECTURAL DRAWINGS. NO CONDUIT MAY BE INSTALLED WITHIN THE BREAKOUT AREA OR WITHIN 6-INCHES OF EDGE.
- 3 10'-0" AREA OF FUTURE OPENING, REFER TO ARCHITECTURAL DRAWINGS. ROUTE CONDUIT TO MINIMIZE THE AMOUNT WITHIN THE BREAKOUT AREA AND EXTENDING 6-INCHES FROM ALL EDGES.
- 4 REFER TO DRAWING 95E103 FOR WORK IN THIS AREA. FIELD CONFIRM ALL DIMENSIONS AND ADJUST THE WORK AS NECESSARY.
- 5 PROVIDE NEMA 3R STAINLESS STEEL JUNCTION BOXES AS NEEDED FOR TRANSITION OF EXPOSED CONDUITS TO DIRECT BURIED CONDUITS. MAINTAIN SEPARATION OF CIRCUIT TYPES PER SPECIFICATION REQUIREMENTS. SIZES SHOWN AS APPROXIMATE.
- 6 INSTALL WP DISCONNECT FURNISHED BY HVAC CONTRACTOR.
- 7 POWER TREATMENT ROOM UNIT FROM DISCONNECT. ELECTRICAL ROOM UNIT TO BE POWERED BY TREATMENT ROOM UNIT. REFER TO HVAC SHEETS.
- 8 SPACE RESERVED FOR VENDOR CONTROL PANEL FURNISHED DURING PHASE 2 OF PROJECT. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE 3" CONCRETE HOUSEKEEPING PAD, SEE ARCHITECTURAL/STRUCTURAL DETAILS FOR REQUIREMENTS. COORDINATE WITH VENDOR OF PHASE 2 EQUIPMENT FOR FINAL PANEL DIMENSIONS.
- 9 DESTRATIFICATION FANS SHALL BE PROVIDED WITH SPEED CONTROL AND SWITCHES BY DIV 23 MANUFACTURE. PROVIDE CONDUIT AND WALL BOX FOR SWITCHES.
- 10 COORDINATE RECEPTACLE LOCATIONS FOR EQUIPMENT IN CHEMICAL ROOMS WITH OWNER AND ENGINEER PRIOR TO INSTALLATION.



95 - GROUND LEVEL - ELECTRICAL PLAN

1/4" = 1'-0" (22" x 34") 0 2 4 8
1/8" = 1'-0" (11" x 17")



PLOT DATE: 12/19/2025 14:10:35 Appendix Doc 05/13/2007 City of Menomonie WI Well #05323007 07 ELECTRICAL OVERALL MODEL_E24.vt



95 - EQUIPMENT PLATFORM - ELECTRICAL PLAN

1/2" = 1'-0" (22" x 34") 0 1 2 4
1/4" = 1'-0" (11" x 17")



95 - ELECTRICAL ROOM - ENLARGED ELECTRICAL PLAN

1/2" = 1'-0" (22" x 34") 0 1 2 4
1/4" = 1'-0" (11" x 17")

GENERAL NOTES:

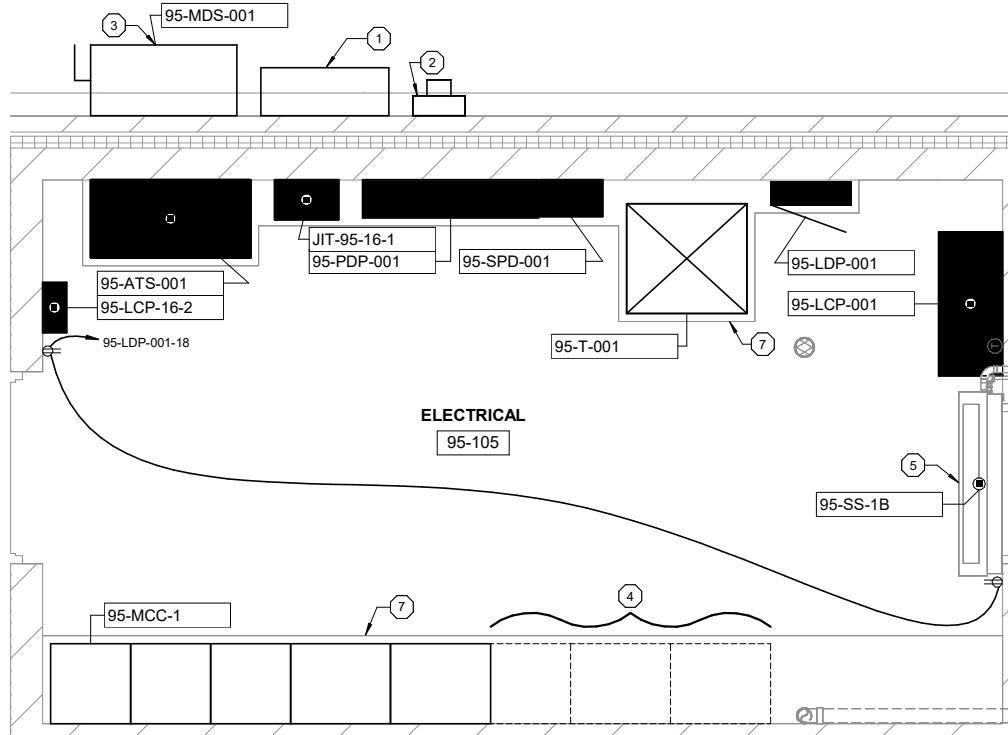
- A. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ENGINEER BEFORE CONTINUING WITH CONSTRUCTION.
- B. 120V HOMERUN WIRING SHALL BE MINIMUM OF (2) #12 & #12G IN 3/4"C UNLESS OTHERWISE NOTED. SIZE FOR VOLTAGE DROP.
- C. SEE ONE-LINE DIAGRAMS, PANEL SCHEDULES, AND FIELD DEVICES WIRING SCHEDULES FOR WIRING OF ALL PROCESS AND INSTRUMENTATION EQUIPMENT.
- D. INSTALL FIELD INSTRUMENTS PER DETAIL REFERENCED IN FIELD DEVICE WIRING SCHEDULE.
- E. REFER TO SECTION 26 05 00 FOR CONDUIT, BOX AND HARDWARE USAGE REQUIREMENTS FOR THE ENVIRONMENT CLASSIFICATION SCHEDULED FOR EACH SPACE. "EXISTING CONSTRUCTION - WET" CLASSIFICATION SHALL APPLY TO ANY UNLISTED SPACE AND TO ALL SPACES DEPICTED WHERE NO ENVIRONMENT CLASSIFICATION SCHEDULE IS PRESENT ON THIS PLAN.

ENVIRONMENT CLASSIFICATIONS

SPACE NUMBER	SPACE NAME / DESCRIPTION	ENVIRONMENT CLASSIFICATIONS
95-105	ELECTRICAL	NEW CONSTRUCTION - DRY
95-201	EQUIPMENT PLATFORM	NEW CONSTRUCTION - DAMP

KEY NOTES

- 1 UTILITY-APPROVED EXTERIOR CT CABINET.
- 2 UTILITY-APPROVED EXTERIOR METER SOCKET.
- 3 WALL-MOUNTED FUSED MAIN DISCONNECT SWITCH.
- 4 SPACE RESERVED FOR "FUTURE" MCC SECTIONS.
- 5 ELECTRICAL ROOM UNIT TO BE POWERED BY TREATMENT ROOM UNIT. REFER TO HVAC SHEETS.
- 6 INSTALL WP DISCONNECT FURNISHED BY HVAC CONTRACTOR.
- 7 PROVIDE 3" CONCRETE HOUSEKEEPING PAD, SEE ARCHITECTURAL/STRUCTURAL DETAILS FOR REQUIREMENTS.



PROJECT DATE: DEC 23, 2025 DRAWN BY: CJC

DESIGNED BY: CJC

CHECKED BY: LET

REVISIONS BY:



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WELL #9 WATER TREATMENT FACILITY - PHASE 1
CITY OF MENOMONIE
DUNN COUNTY, WISCONSIN

WELL AND BUILDING
ELECTRICAL PLAN

PROJECT NO.
05323007-1
SHEET
95E103