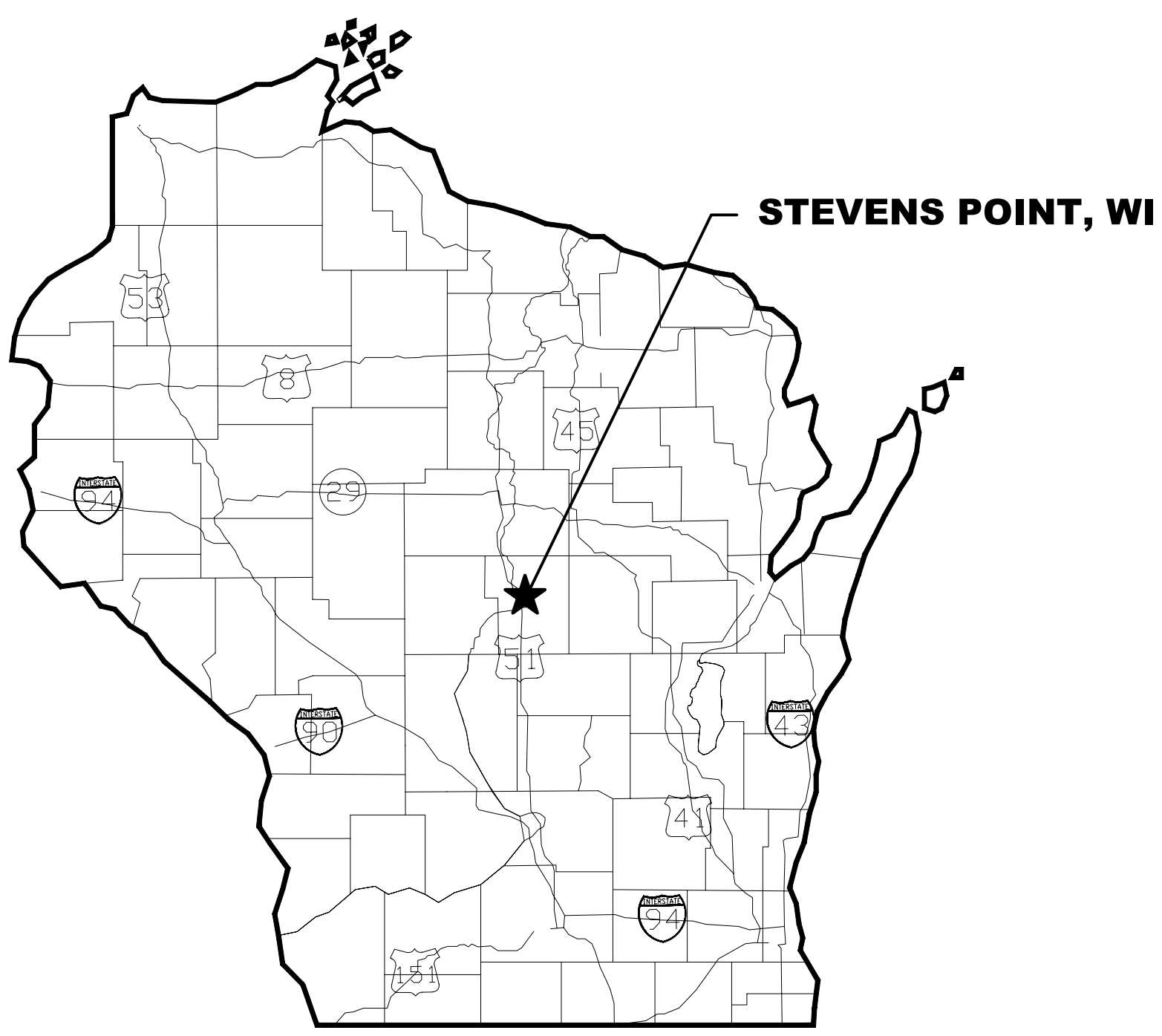
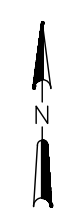


WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS FOR THE CITY OF STEVENS POINT PORTAGE COUNTY, WISCONSIN



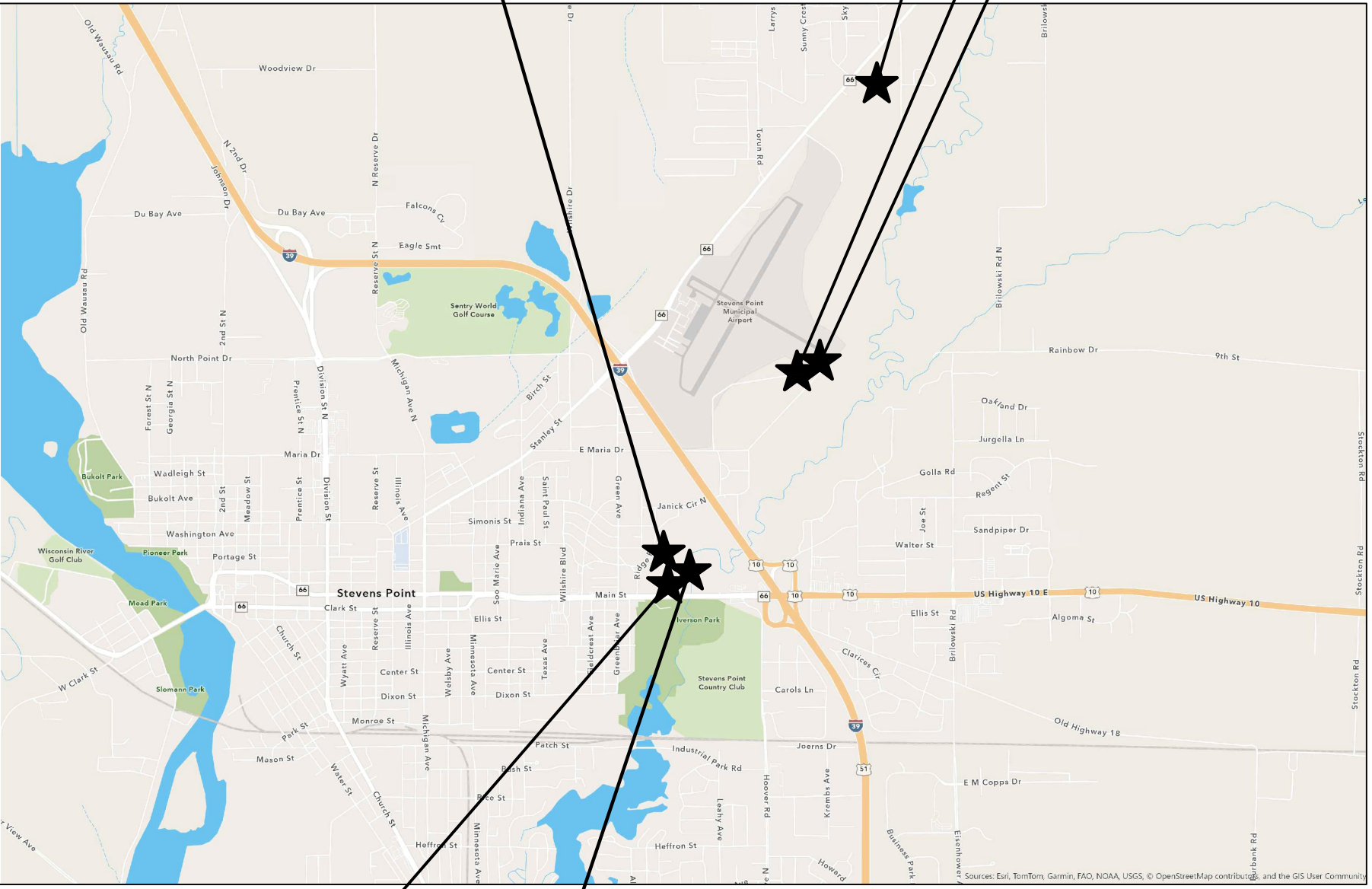
PROJECT LOCATION MAP
NO SCALE



910 West Wingra Drive
Madison, WI 53715
608-251-4843
608-251-8655 fax
www.strand.com

CONTRACT 26-202

**WELL NO. 12 WELL HOUSE
4216 RIDGE COURT
STEVENS POINT, WI**



**WATER TREATMENT PLANT
4400 MAIN STREET
STEVENS POINT, WI**

WELL #4

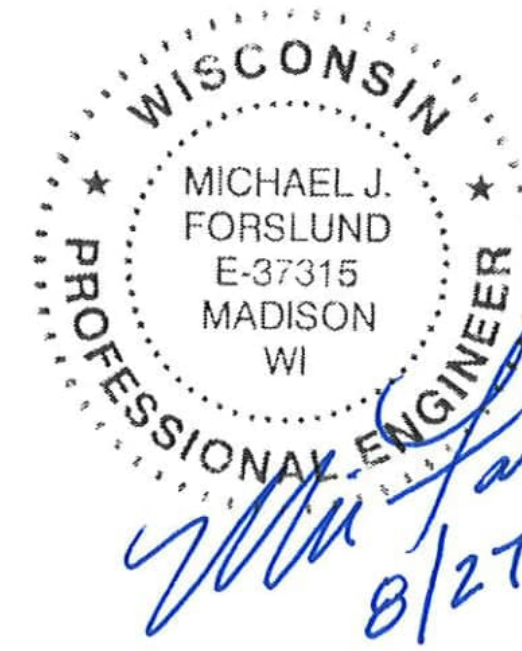
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**WELL #11 AND WATER
TREATMENT STATION
5431 STATE HIGHWAY 66
STEVENS POINT, WI**

WELL #7

WELL #8



ISSUED FOR BID 8/27/2026

SHEET
1
00-G0.1

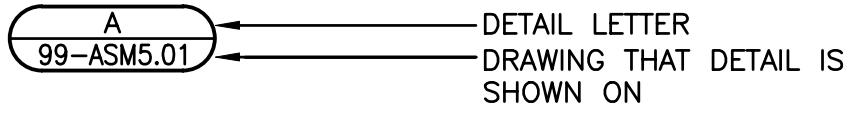
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SHEET NO.		DRAWING NO.		DRAWING TITLE					
00-GENERAL									
1		00-G0.1		TITLE SHEET AND LOCATION MAPS					
2		00-G0.2		DRAWING LIST					
3		00-G0.3		STANDARD SYMBOLS - 1					
4		00-G0.4		STANDARD SYMBOLS - 2					
5		00-G0.5		ABBREVIATIONS					
05-SITE									
6		05-CE1.0		OVERALL SITE PLAN - EXISTING CONDITIONS					
7		05-CE1.1		WELL HOUSE - SITE PLAN					
8		05-CE1.2		WELL HOUSE - SITE PLAN ENLARGED					
9		05-CE1.3		WATER TREATMENT PLANT - SITE PLAN					
10		05-CE1.4		WATER TREATMENT PLANT - SITE PLAN ENLARGED					
11		05-CE1.5		EXISTING PRIVATE DRIVEWAY - SITE PLAN					
12		05-CE1.6		WELL NO. 7 AND WELL NO. 8 - SITE PLAN					
13		05-C3.1		RAW WATER MAIN PLAN AND PROFILE - 1					
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15		05-C5.1		SITE DETAILS					
10-WELL NO. 12 WELL HOUSE									
16		10-ASM1.0		LIFE SAFETY PLAN AND CODE SUMMARY					
17		10-ASM1.1		FOUNDATION AND FLOOR PLAN					
18		10-ASM1.2		PRECAST PLANK, ROOF, AND ROOF FRAMING PLAN					
19		10-ASM2.1		ELEVATIONS					
20		10-ASM3.1		SECTIONS					
21		10-ASM3.2		WALL SECTIONS					
22		10-P1.1		PLUMBING - UNDERGROUND, ABOVE GROUND PLANS, AND ISOMETRICS					
23		10-H1.1		HVAC PLAN					
24		10-E1.1		ELECTRICAL PLAN					
20-WATER TREATMENT PLANT									
25		20-D1.1		DEMOLITION PLAN - 1					
26		20-D1.2		DEMOLITION PLAN - 2					
27		20-D1.3		DEMOLITION ROOF PLAN					
28		20-D3.1		DEMOLITION SECTIONS					
29		20-ASM1.0		LIFE SAFETY PLAN AND CODE SUMMARY					
30		20-ASM1.1		FLOOR PLAN - SOUTH					
31		20-ASM1.2		FLOOR PLAN - NORTH					
32		20-ASM1.3		ROOF PLAN					
33		20-FP1.1		FIRE PROTECTION PLAN					
34		20-P1.1		PLUMBING PLAN					
35		20-P7.1		PLUMBING SCHEMATIC					
36		20-H1.1		HVAC PLAN - SOUTH					
37		20-H1.2		HVAC PLAN - NORTH					
38		20-M3.1		CHLORINATION P&ID					
39		20-E1.1		ELECTRICAL PLAN - SOUTH					
40		20-E1.2		ELECTRICAL PLAN - NORTH					
41		20-E1.3		LIGHTING PLAN - SOUTH					
42		20-E1.4		LIGHTING PLAN - NORTH					
30-WELL NO. 11									
43		30-D1.1		DEMOLITION PLAN					
40-WELL NO. 7 AND NO. 8									
44		40-E1.1		DEMOLITION AND ELECTRICAL PLANS					
99-SCHEDULES AND DETAILS									
45		99-ASM5.1		ARCHITECTURAL/STRUCTURAL/MECHANICAL DETAILS - 1					
46		99-ASM5.2		ARCHITECTURAL/STRUCTURAL/MECHANICAL DETAILS - 2					
47		99-ASM5.3		ARCHITECTURAL/STRUCTURAL/MECHANICAL DETAILS - 3					
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50		99-P5.1		PLUMBING DETAILS					
51		99-P6.1		PLUMBING SCHEDULES					
52		99-H5.1		HVAC DETAILS					
53		99-H6.1		HVAC SCHEDULES					
54		99-H7.1		HVAC AIRFLOW SCHEMATIC					
55		99-E5.1		ELECTRICAL DETAILS					
56		99-E6.1		HMP10181-MCC SCHEDULE, DEMOLITION AND PROPOSED ELEVATIONS					
57		99-E6.2		MCC-12 SCHEDULE AND ELEVATION					
58		99-E6.3		MCC-07 AND MCC-08 SCHEDULES AND ELEVATIONS					
59		99-E6.4		SCHEDULES					
60		99-E6.5		DIAGRAMS					
61		99-E6.6		WELL NO 7 AND WELL NO 8 WELL ONE-LINE DIAGRAMS					

GENERAL DRAWING LIST									
WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS CITY OF STEVENS POINT PORTAGE COUNTY, WISCONSIN									
JOB NO. 1038.015									
PROJECT MGR. MIKE FORSLUND									
									
SHEET 2 00-G0.2									

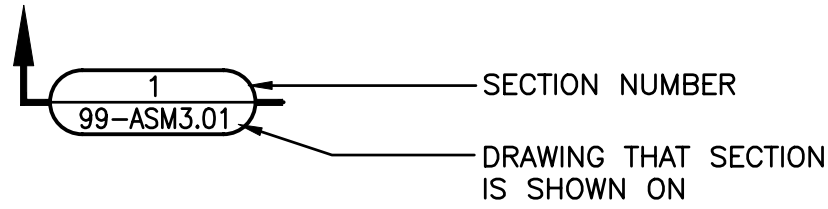


DRAFTING SYMBOLS

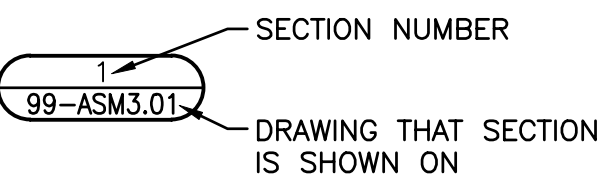
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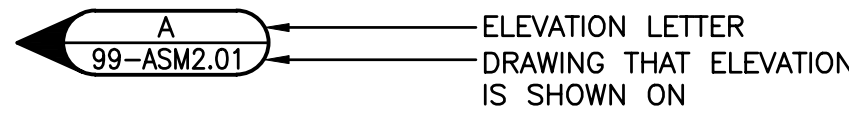
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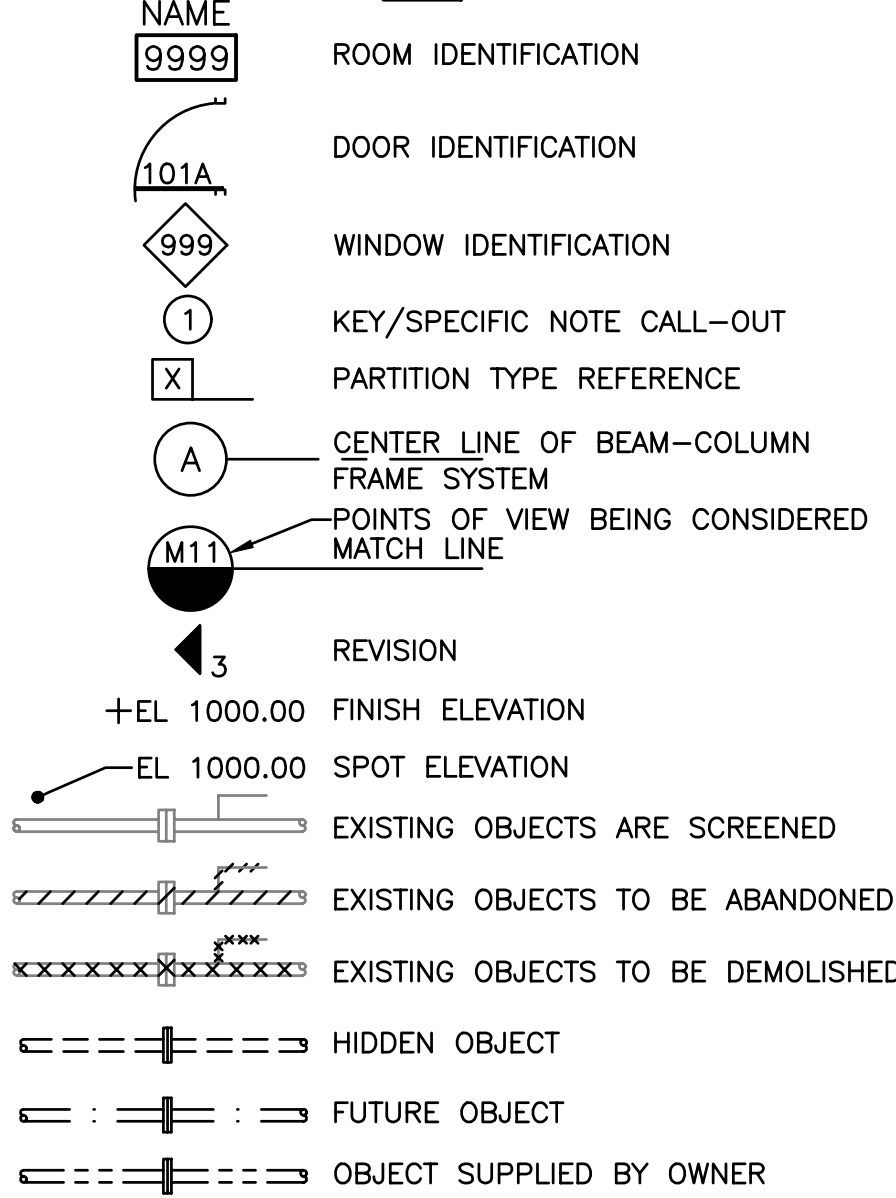
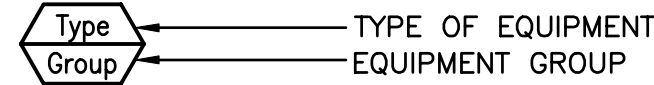
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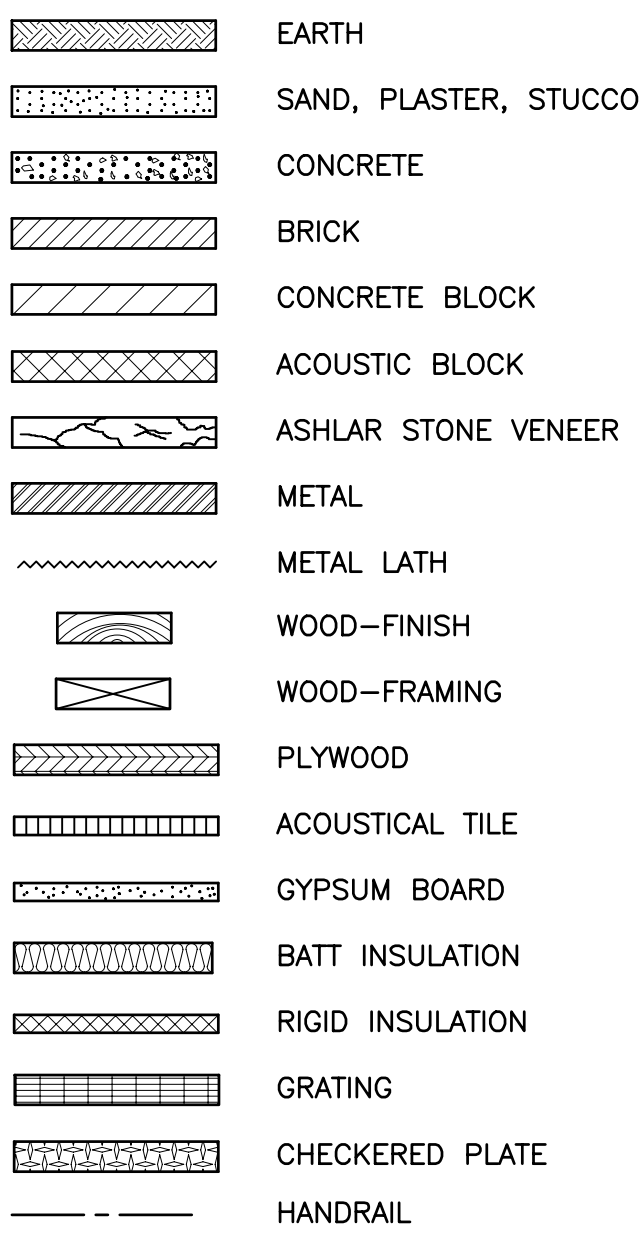
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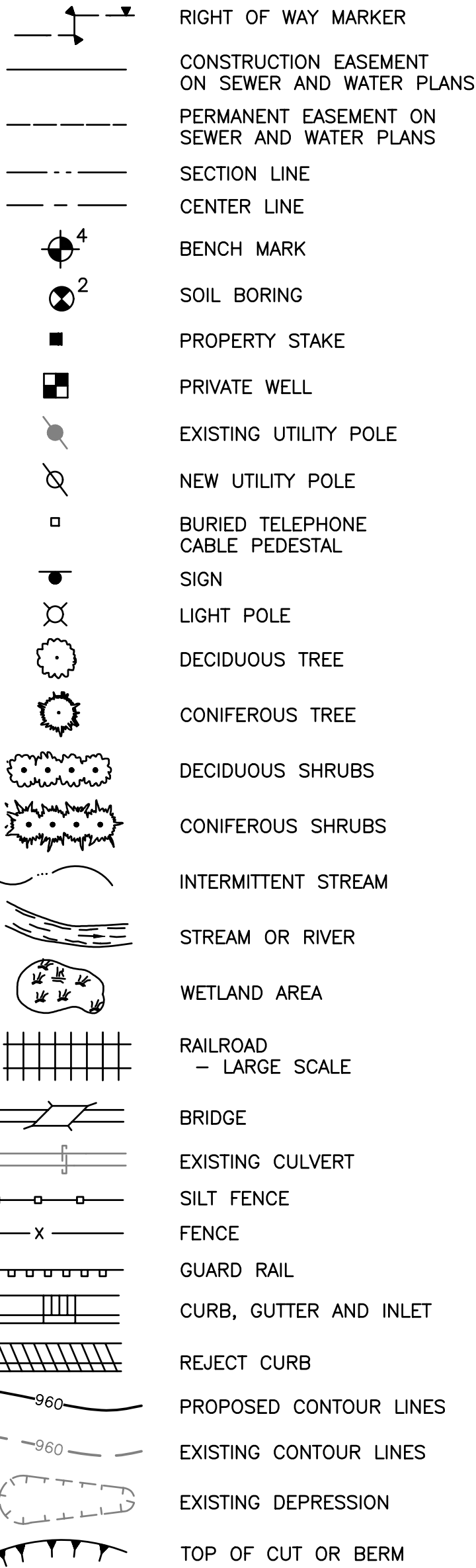
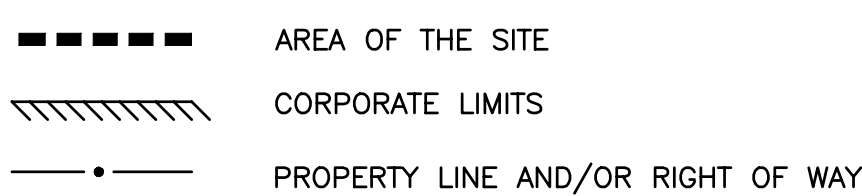
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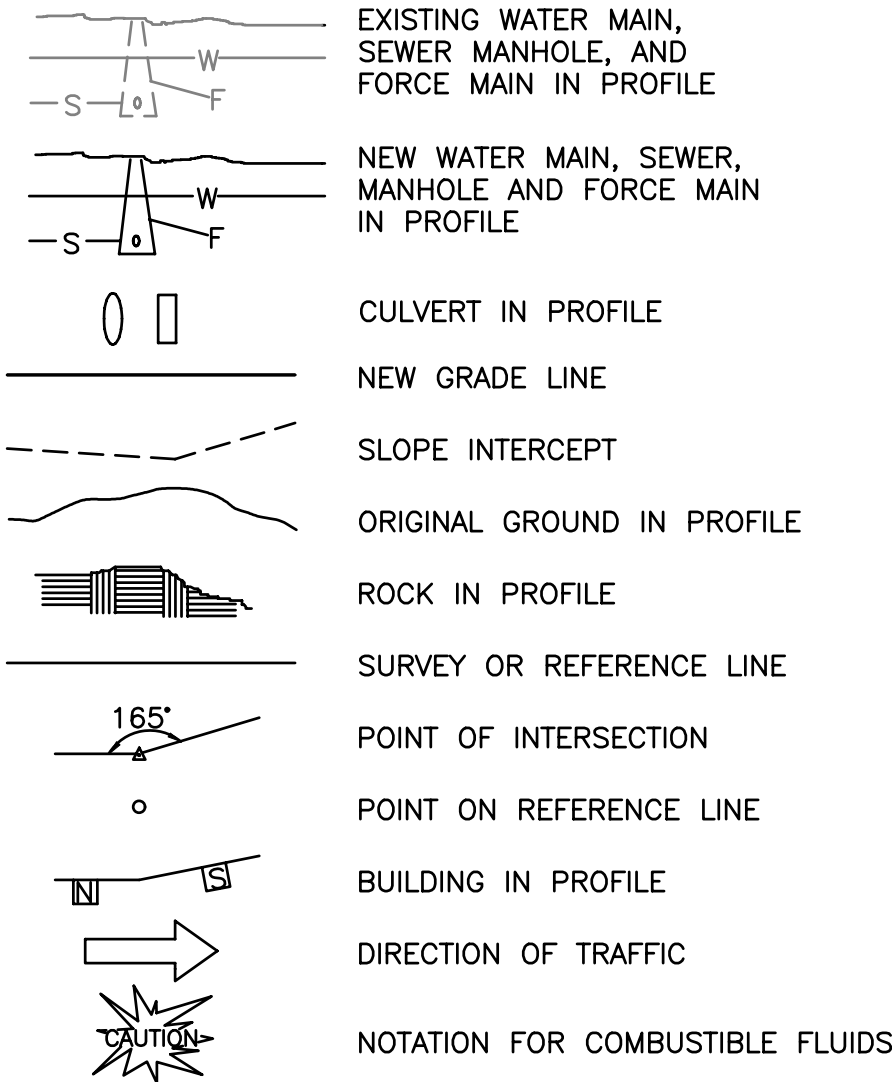
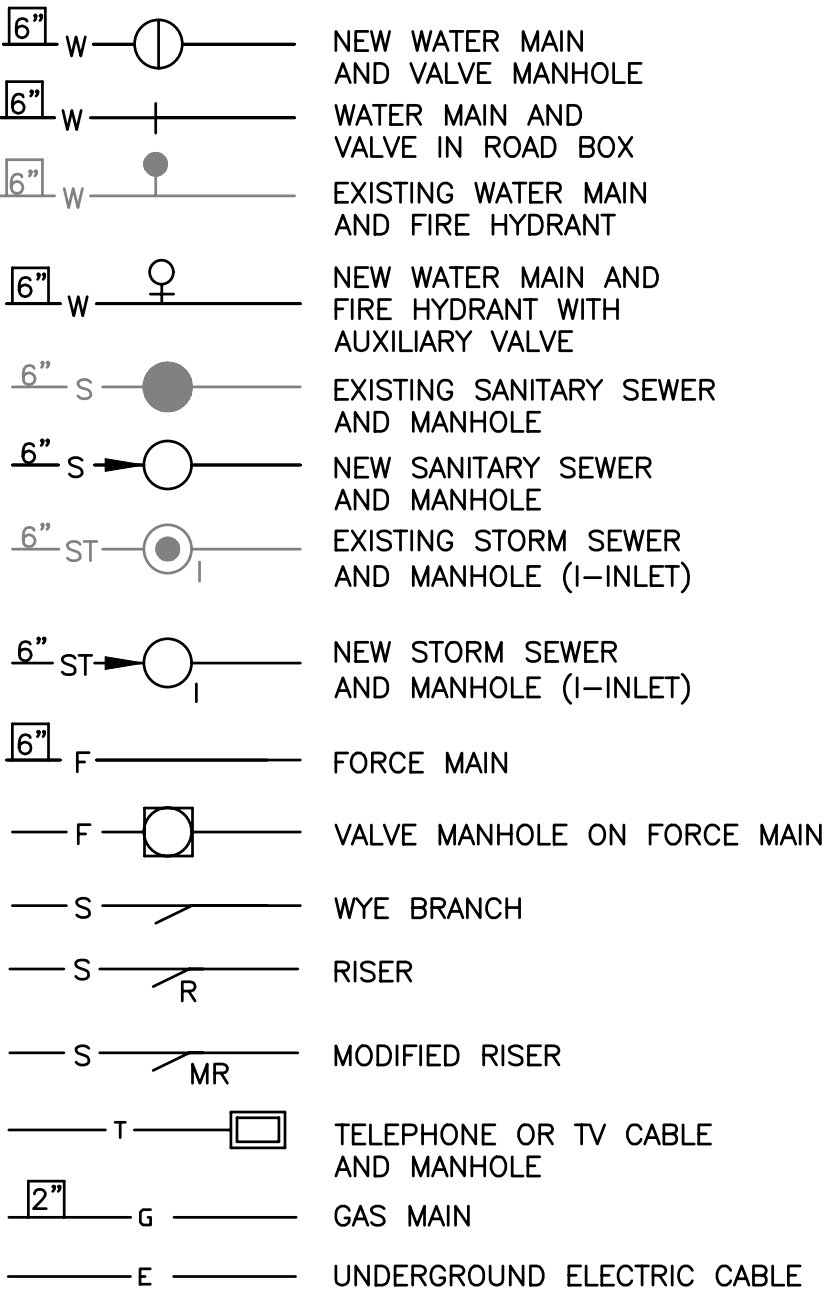
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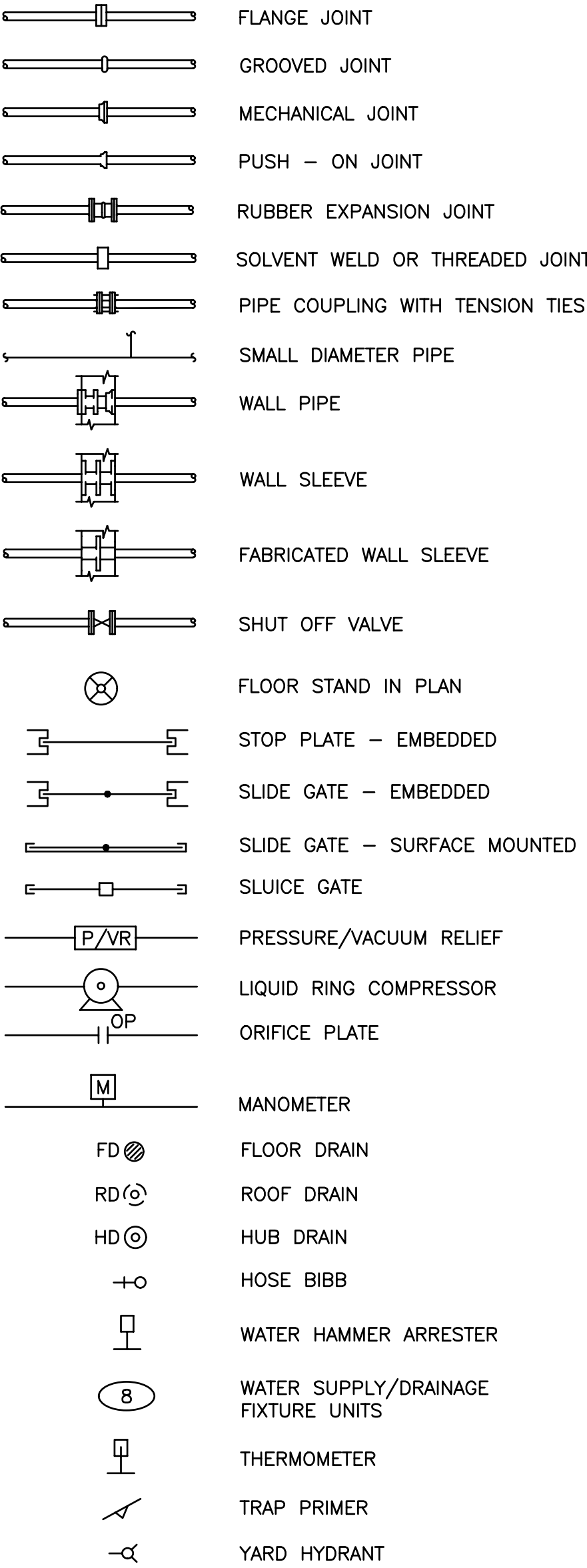
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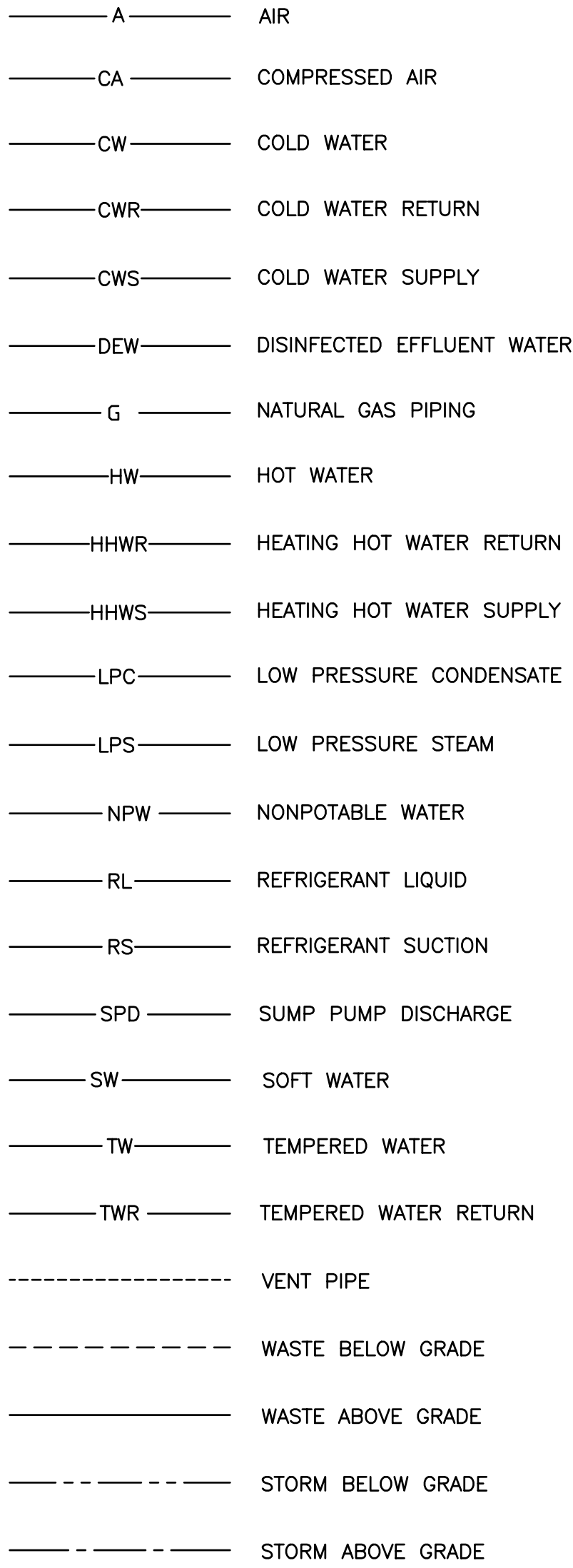
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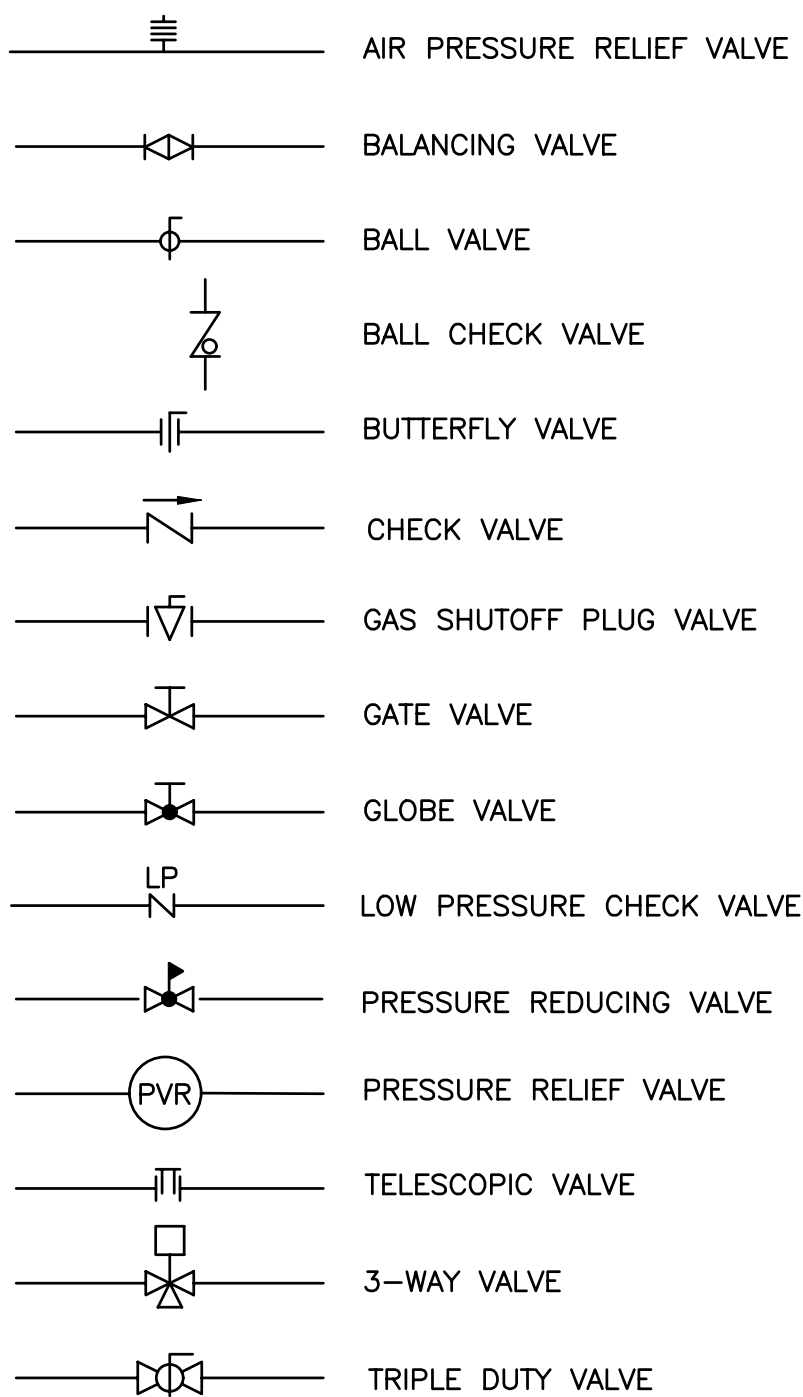
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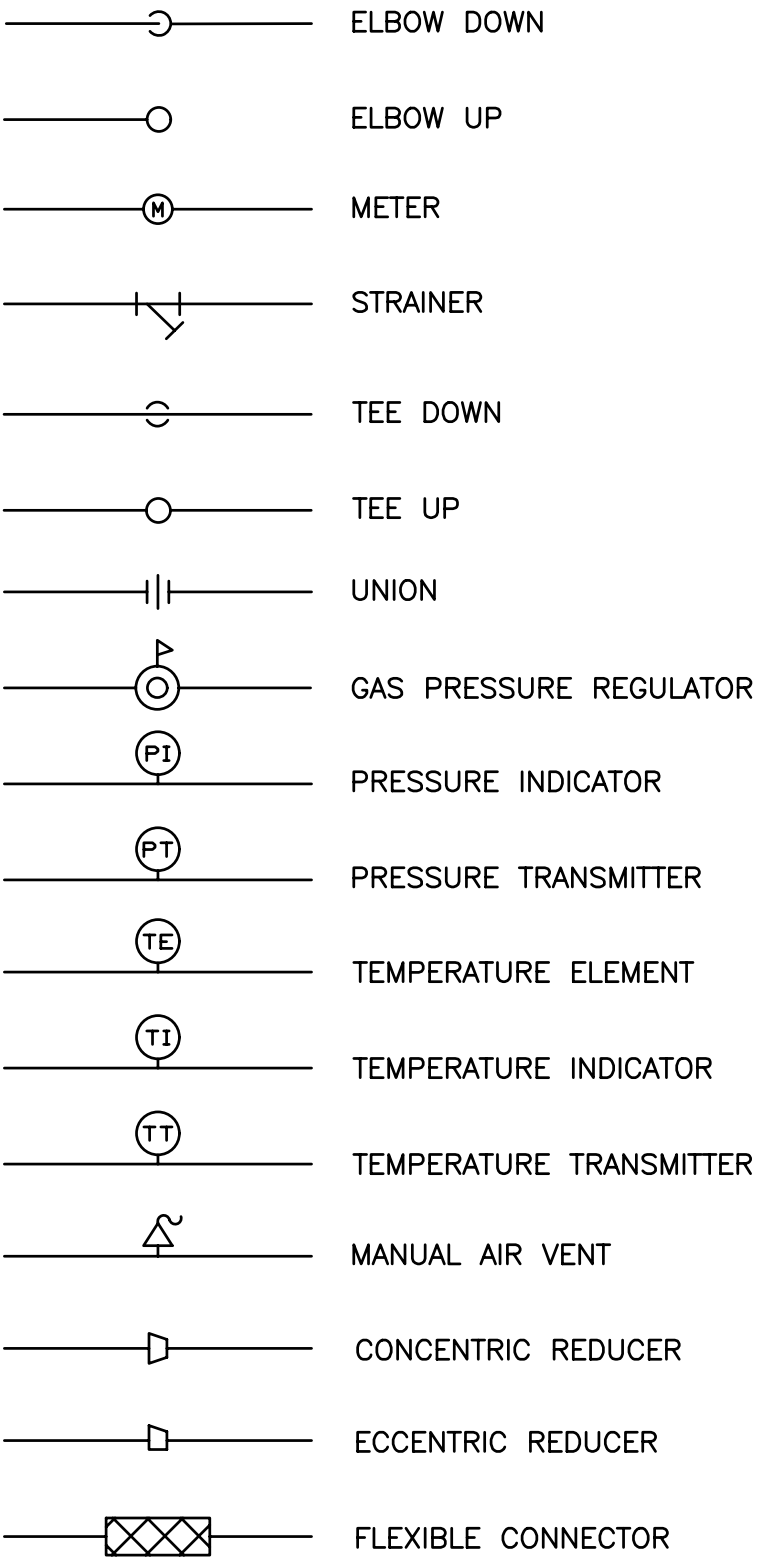
PIPING DESIGNATIONS



VALVE SYMBOLS



PIPING SYMBOLS



GENERAL STANDARD SYMBOLS - 1

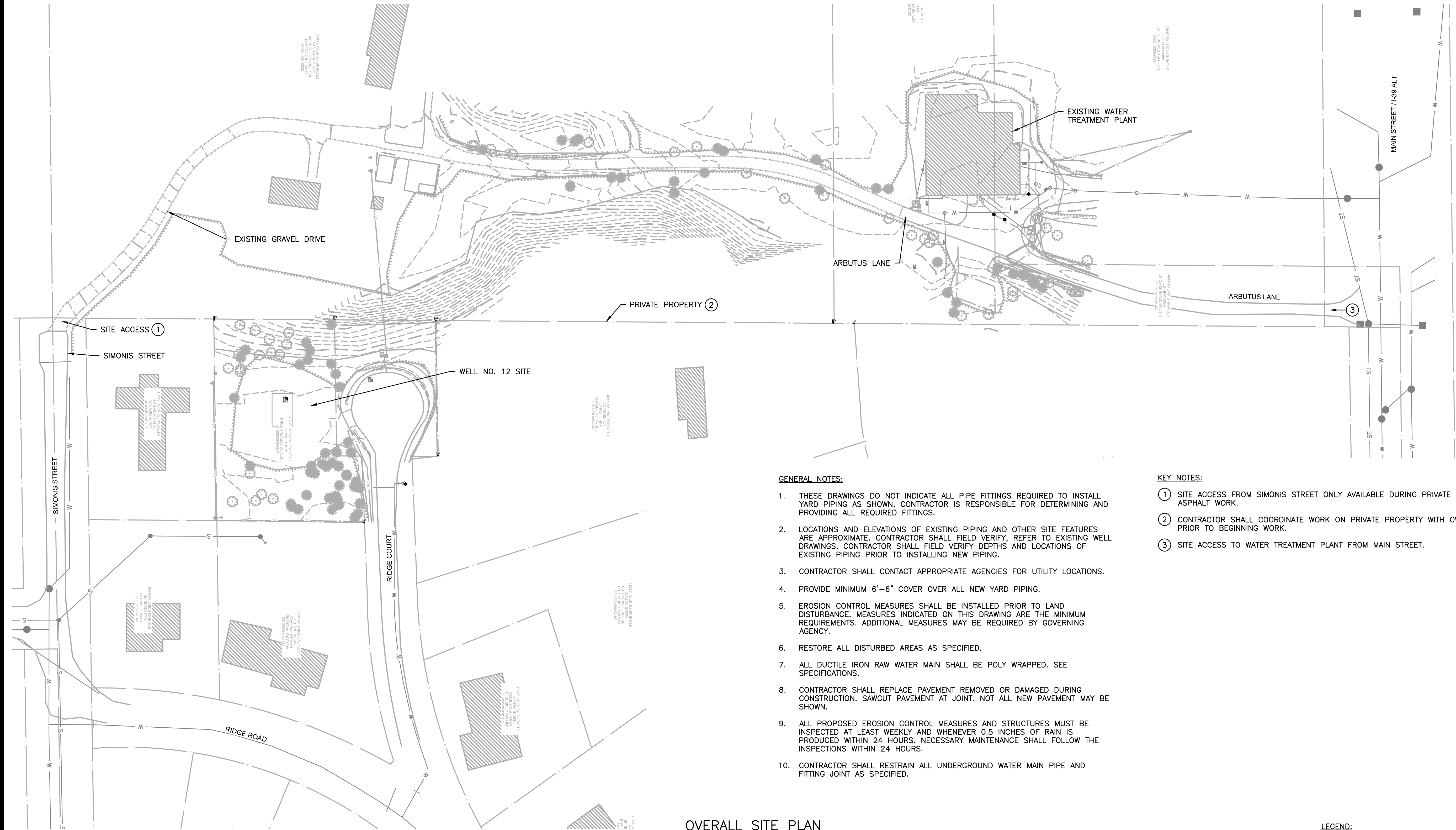
WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015
PROJECT MGR.
MIKE FORSLUND



SHEET
3
00-G0.2

DATE:	9/27/2026								
REVISIONS	ISSUED FOR BID								
NO.	1								



GENERAL NOTES:

1. THESE DRAWINGS DO NOT INDICATE ALL PIPE FITTINGS REQUIRED TO INSTALL YARD PIPING AS SHOWN. CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND PROVIDING ALL REQUIRED FITTINGS.
2. LOCATIONS AND ELEVATIONS OF EXISTING PIPING AND OTHER SITE FEATURES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY, REFER TO EXISTING WELL DRAWINGS. CONTRACTOR SHALL FIELD VERIFY DEPTHS AND LOCATIONS OF EXISTING PIPING PRIOR TO INSTALLING NEW PIPING.
3. CONTRACTOR SHALL CONTACT APPROPRIATE AGENCIES FOR UTILITY LOCATIONS.
4. PROVIDE MINIMUM 6'-6" COVER OVER ALL NEW YARD PIPING.
5. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE. MEASURES INDICATED ON THIS DRAWING ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED BY GOVERNING AGENCY.
6. RESTORE ALL DISTURBED AREAS AS SPECIFIED.
7. ALL DUCTILE IRON RAW WATER MAIN SHALL BE POLY WRAPPED. SEE SPECIFICATIONS.
8. CONTRACTOR SHALL REPLACE PAVEMENT REMOVED OR DAMAGED DURING CONSTRUCTION. SAWCUT PAVEMENT AT JOINT. NOT ALL NEW PAVEMENT MAY BE SHOWN.
9. ALL PROPOSED EROSION CONTROL MEASURES AND STRUCTURES MUST BE INSPECTED AT LEAST WEEKLY AND WHENEVER 0.5 INCHES OF RAIN IS PRODUCED WITHIN 24 HOURS. NECESSARY MAINTENANCE SHALL FOLLOW THE INSPECTIONS WITHIN 24 HOURS.
10. CONTRACTOR SHALL RESTRAIN ALL UNDERGROUND WATER MAIN PIPE AND FITTING JOINT AS SPECIFIED.

KEY NOTES:

- ① SITE ACCESS FROM SIMONIS STREET ONLY AVAILABLE DURING PRIVATE DRIVE ASPHALT WORK.
- ② CONTRACTOR SHALL COORDINATE WORK ON PRIVATE PROPERTY WITH OWNER PRIOR TO BEGINNING WORK.
- ③ SITE ACCESS TO WATER TREATMENT PLANT FROM MAIN STREET.

LEGEND:

NEW ASPHALT PAVEMENT

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	8/27/2026

OVERALL SITE PLAN - EXISTING CONDITIONS

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS

CITY OF STEVENS POINT

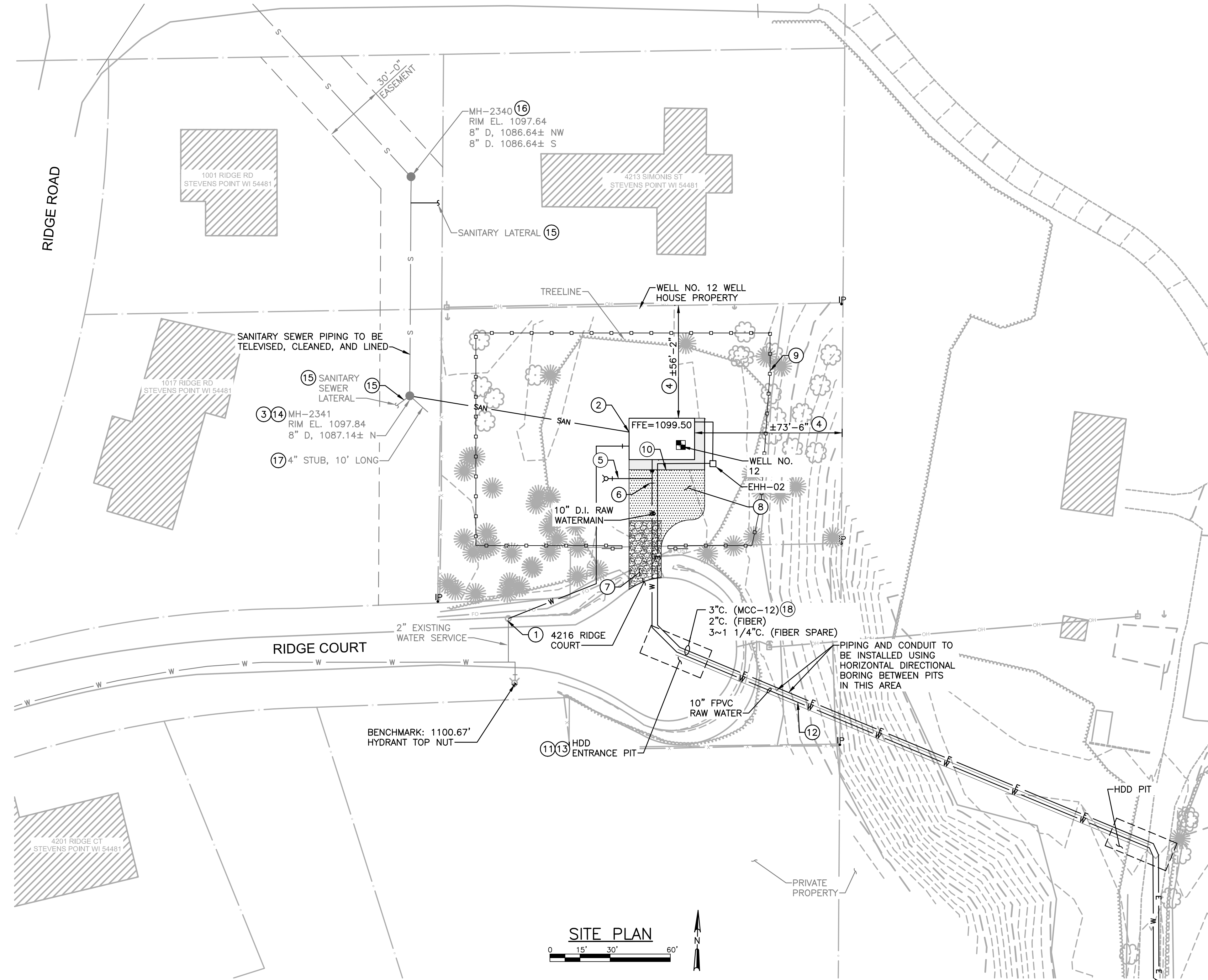
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015

PROJECT MGR.
MIKE FORSLUND



SHEET
6
05-CE1.0



- GENERAL NOTES:
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 - LOCATIONS AND ELEVATIONS OF EXISTING PIPING AND OTHER SITE FEATURES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY, REFER TO EXISTING WELL DRAWINGS. CONTRACTOR SHALL FIELD VERIFY DEPTHS AND LOCATIONS OF EXISTING PIPING PRIOR TO INSTALLING NEW PIPING.
 - CONTRACTOR SHALL CONTACT APPROPRIATE AGENCIES FOR UTILITY LOCATIONS.
 - PROVIDE MINIMUM 6'-6" COVER OVER ALL NEW YARD PIPING.
 - GRADE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING. DRIVEWAY SHALL BE GRADED SUCH THAT THE DRAINAGE SLOPES AWAY FROM THE BUILDING.
 - EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE. MEASURES INDICATED ON THIS DRAWING ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED BY GOVERNING AGENCY.
 - RESTORE ALL DISTURBED AREAS AS SPECIFIED.
 - ALL DUCTILE IRON RAW WATER MAIN SHALL BE POLY WRAPPED. SEE SPECIFICATIONS.
 - CONTRACTOR SHALL REPLACE PAVEMENT REMOVED OR DAMAGED DURING CONSTRUCTION. SAWCUT PAVEMENT AT JOINT. NOT ALL NEW PAVEMENT MAY BE SHOWN.
 - ALL PROPOSED EROSION CONTROL MEASURES AND STRUCTURES MUST BE INSPECTED AT LEAST WEEKLY AND WHENEVER 0.5 INCHES OF RAIN IS PRODUCED WITHIN 24 HOURS. NECESSARY MAINTENANCE SHALL FOLLOW THE INSPECTIONS WITHIN 24 HOURS.
 - CONTRACTOR SHALL RESTRAIN ALL UNDERGROUND WATER MAIN PIPE AND FITTING JOINT AS SPECIFIED.

- KEY NOTES:
- CONTRACTOR SHALL CONNECT NEW 2" TYPE K COPPER WATER SERVICE TO EXISTING SERVICE.
 - PROVIDE 4" PVC SANITARY SEWER MAIN. REFER TO SHEET 10--P1.1 FOR CONTINUATION AND INVERT ELEVATION.
 - EXISTING MANHOLE SHALL BE CORED TO CONNECT SANITARY SEWER MAIN TO MANHOLE. WATERTIGHT FLEXIBLE COUPLING SHALL BE PROVIDED FOR CONNECTION BETWEEN PIPE AND MANHOLE. ACCESS TO THE EASEMENT SHALL BE COORDINATED WITH OWNER.
 - SITE DIMENSIONS TO BUILDING ARE APPROXIMATE. LOCATE BUILDING BASED ON DIMENSIONS FROM WELL NO. 12 AS SHOWN ON 10--ASM1.1. SOUTH WALL SHALL BE PARALLEL TO THE SOUTH PROPERTY LINE.
 - PROVIDE 6" PIPING, REDUCER, PERMANENT YARD HYDRANT, SHUT-OFF VALVE, AND FITTINGS. PROVIDE TEMPORARY CONNECTIONS FOR PUMP TO WASTE AND SAMPLING. PAINT HYDRANT WHITE AND PROVIDE A HYDRANT MARKER LABELED "FLUSHING ONLY - NOT FIRE FLOW".
 - 10" GATE VALVE AND VALVE BOX, TYPICAL.
 - TEMPORARY STONE TRACKING PAD FOR USE DURING CONSTRUCTION. PAD SHALL BE REMOVED PRIOR TO PAVING.
 - BITUMINOUS ASPHALT PER 05-C5.1
 - HERP EXCLUSION FENCING PER 05-C5.1
 - CONCRETE SIDEWALK PER 05-C5.1
 - SAW CUT ASPHALT PAVEMENT FOR DIRECTIONAL HORIZONTAL DRILLING ENTRANCE PIT AND PATCH ASPHALT TO MATCH EXISTING.
 - RAW WATER MAIN TO BE DIRECTIONALLY DRILLED SHALL BE 10" FPVC RAW WATER MAIN. OWNER HAS OBTAINED PERMISSION TO CROSS PROPERTY FOR RAW WATER MAIN INSTALLATION. CONTRACTOR SHALL COORDINATE ACCESS TO PRIVATE PROPERTY WITH OWNER (CITY) PRIOR TO BEGINNING WORK.
 - COVER OVER PIPING IN PIT SHALL BE A MINIMUM OF 6'-6".
 - UPSTREAM SANITARY SEWER MANHOLE LINING ACCESS POINT.
 - CONTRACTOR SHALL BYPASS SEWAGE FROM LATERAL AROUND MANHOLE AND CIPP SEWER SECTION AS REQUIRED TO COMPLETE THE WORK.
 - DOWNSIDE SANITARY SEWER MANHOLE LINING ACCESS POINT.
 - REMOVE STUB AND PROVIDE WATER TIGHT PLUG.
 - UNDERGROUND ELECTRICAL WORK SHALL BE TRENCHED AND OFFSET A MINIMUM OF 3' FROM THE NEW WATER MAIN CENTERLINE.

LEGEND:

NEW ASPHALT PAVEMENT

CONCRETE SIDEWALK

SITE PLAN

WELL HOUSE - SITE PLAN

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS

CITY OF STEVENS POINT

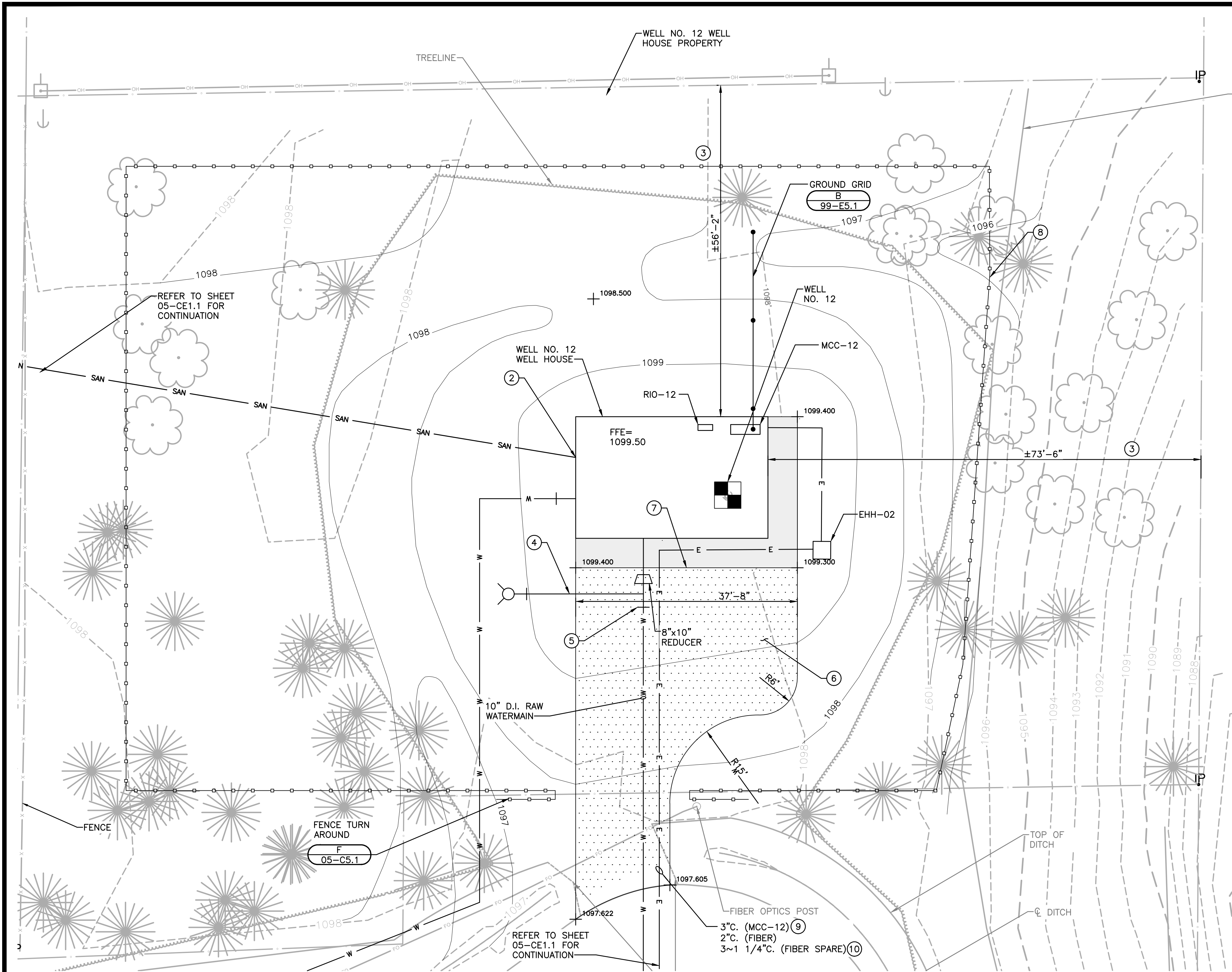
PORTAGE COUNTY, WISCONSIN

JOB NO. 1038.015

PROJECT MGR. MIKE FORSLUND

STRAND ASSOCIATES

SHEET 7 05-CE1.1

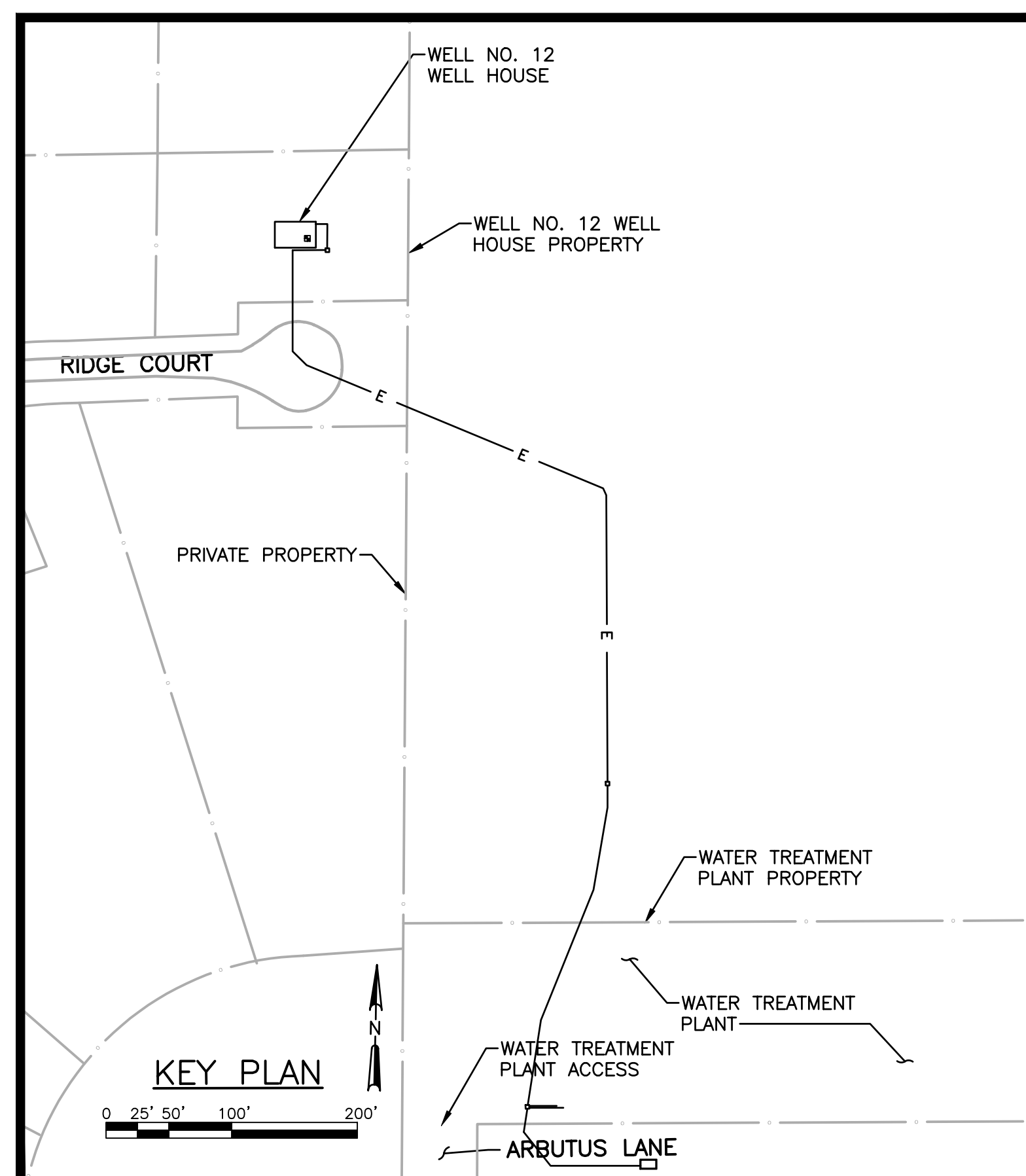
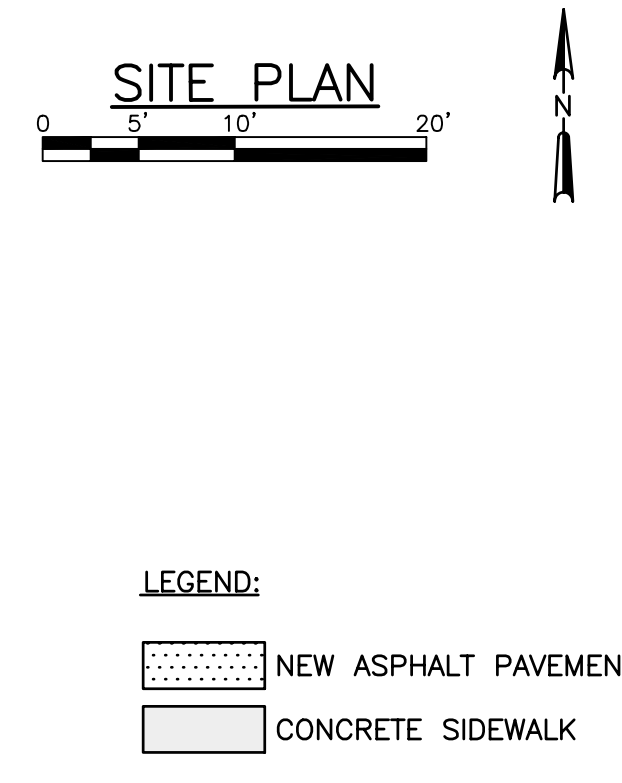


- KEY NOTES:**
- 1 EXCAVATE ROADWAY AND RIGHT OF WAY AS REQUIRED TO CONNECT NEW 2" INSULATED TYPE K COPPER WATER SERVICE TO EXISTING SERVICE.
 - 2 PROVIDE 4" PVC SANITARY SEWER MAIN. REFER TO SHEET 10-P1.1 FOR CONTINUATION AND INVERT ELEVATION.
 - 3 SITE DIMENSIONS TO BUILDING ARE APPROXIMATE. LOCATE BUILDING BASED ON DIMENSIONS FROM WELL NO. 12 AS SHOWN ON 10-ASM1.1. SOUTH WALL SHALL BE PARALLEL TO THE SOUTH PROPERTY LINE.
 - 4 PROVIDE 6" PIPING, REDUCER, PERMANENT YARD HYDRANT, SHUT-OFF VALVE, AND FITTINGS. PROVIDE TEMPORARY CONNECTIONS FOR PUMP TO WASTE AND SAMPLING.
 - 5 10" GATE VALVE AND VALVE BOX, TYPICAL.
 - 6 BITUMINOUS ASPHALT PER

C
05-C5.1
 - 7 CONCRETE SIDEWALK PER

D
09-C5.1
 - 8 SILT FENCE.
 - 9 UNDERGROUND ELECTRICAL WORK SHALL BE TRENCHED AND OFFSET A MINIMUM OF 3' FROM THE NEW WATER MAIN CENTERLINE.
 - 10 SPARE FIBER CONDUITS SHALL BE STUBBED INTO WELL HOUSE AND CAPPED FOR FUTURE USE.

- GENERAL NOTES:**
- 1. THESE DRAWINGS DO NOT INDICATE ALL PIPE FITTINGS REQUIRED TO INSTALL YARD PIPING AS SHOWN. CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND PROVIDING ALL REQUIRED FITTINGS.
 - 2. LOCATIONS AND ELEVATIONS OF EXISTING PIPING AND OTHER SITE FEATURES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY, REFER TO EXISTING WELL DRAWINGS. CONTRACTOR SHALL FIELD VERIFY DEPTHS AND LOCATIONS OF EXISTING PIPING PRIOR TO INSTALLING NEW PIPING.
 - 3. CONTRACTOR SHALL CONTACT APPROPRIATE AGENCIES FOR UTILITY LOCATIONS.
 - 4. PROVIDE MINIMUM 6'-6" COVER OVER ALL NEW YARD PIPING.
 - 5. GRADE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING. DRIVEWAY SHALL BE GRADED SUCH THAT THE DRAINAGE SLOPES AWAY FROM THE BUILDING.
 - 6. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE. MEASURES INDICATED ON THIS DRAWING ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED BY GOVERNING AGENCY.
 - 7. RESTORE ALL DISTURBED AREAS AS SPECIFIED.
 - 8. ALL DUCTILE IRON RAW WATER MAIN SHALL BE POLY WRAPPED. SEE SPECIFICATIONS.
 - 9. CONTRACTOR SHALL REPLACE PAVEMENT REMOVED OR DAMAGED DURING CONSTRUCTION. SAWCUT PAVEMENT AT JOINT. NOT ALL NEW PAVEMENT MAY BE SHOWN.
 - 10. ALL PROPOSED EROSION CONTROL MEASURES AND STRUCTURES MUST BE INSPECTED AT LEAST WEEKLY AND WHENEVER 0.5 INCHES OF RAIN IS PRODUCED WITHIN 24 HOURS. NECESSARY MAINTENANCE SHALL FOLLOW THE INSPECTIONS WITHIN 24 HOURS.
 - 11. CONTRACTOR SHALL RESTRAIN ALL UNDERGROUND WATER MAIN PIPE AND FITTING JOINT AS SPECIFIED.



DATE:	
8/27/2026	

REVISIONS	
ISSUED FOR BID	

NO.
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SITE

WELL HOUSE - SITE PLAN ENLARGED

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

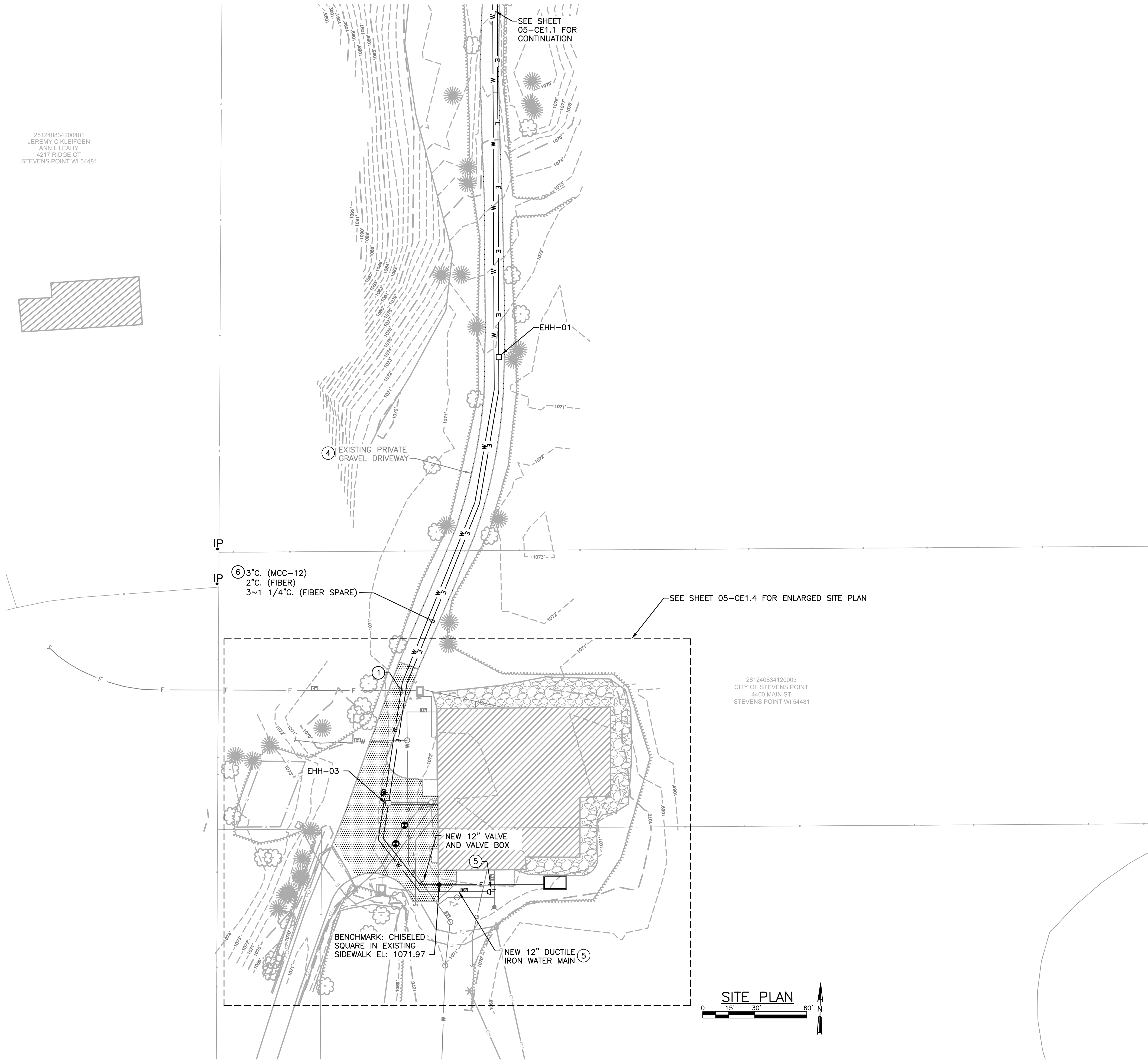
JOB NO.
1038.015

PROJECT MGR.
MIKE FORSLUND

STRAND ASSOCIATES®

SHEET
8
05-CE1.2

281240834200401
JEREMY C KLEIFGEN
ANN L LEAHY
4217 RIDGE CT
STEVENS POINT WI 54481



- GENERAL NOTES:
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 - CONTRACTOR SHALL RESTRAIN ALL UNDERGROUND WATER MAIN PIPE AND FITTING JOINT AS SPECIFIED.

- KEY NOTES:
- RAW WATER MAIN CROSSING SANITARY SEWER SHALL MEET VERTICAL SEPARATION CODE REQUIREMENTS.
 - NOT USED.
 - NOT USED.
 - DRIVEWAY SHALL BE ASPHALT PAVEMENT PER $\text{C}_{05-CE1.1}$.
 - VERIFY DOWNSTREAM VALVES ARE CLOSED, LOCATE EXISTING RAW WATER MAIN AND CONNECT NEW 8" DUCTILE IRON WATER MAIN TO EXISTING 12" WATER MAIN WITH 12" X 8" REDUCER. CONTRACTOR SHALL FIELD VERIFY EXISTING WATER MAIN SIZE AND LOCATION PRIOR TO INSTALLING NEW WATER MAIN.
 - UNDERGROUND ELECTRICAL WORK SHALL BE TRENCHED AND OFFSET A MINIMUM OF 3' FROM THE NEW WATER MAIN CENTERLINE.

- LEGEND:
- NEW ASPHALT PAVEMENT
 - EXISTING LANDSCAPING ROCK BED

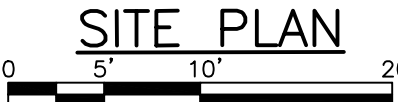
SITE
SITE PLAN - WATER TREATMENT PLANT
WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015
PROJECT MGR.
MIKE FORSLUND



SHEET
9
05-CE1.3

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	8/27/2026



 NEW ASPHALT PAVEMENT
 EXISTING LANDSCAPING ROCK BED
 DEMOLITION

- ① RAW WATER MAIN CROSSING SANITARY SEWER SHALL MEET VERTICAL SEPARATION CODE REQUIREMENTS.
- ② SILT FENCE WITH HERP EXCLUSION FENCING EACH END. SEE DETAIL F
05-C5.1
- ③ SAW CUT ASPHALT PAVEMENT FOR DIRECTIONAL HORIZONTAL DRILLING ENTRANCE PIT AND INSTALLATION OF ELECTRICAL CONDUITS AND PATCH ASPHALT TO MATCH EXISTING.
- ④ DEMOLISH AND DISPOSE OF 12" DUCTILE IRON WATER MAIN, VALVE, AND CONCRETE VALVE VAULT TO EXTENTS SHOWN. CAP EXISTING TEES ON EACH END OF DEMOLITION.
- ⑤ VERIFY DOWNSTREAM VALVES ARE CLOSED, LOCATE EXISTING RAW WATER MAIN AND CONNECT NEW 10" DUCTILE IRON WATER MAIN TO EXISTING 12" WATER MAIN WITH 12" x 10" REDUCER, 12" x 12" TEE, AND 12" GATE VALVE IN BOX TO NORTH OF TEE. CONTRACTOR SHALL FIELD VERIFY EXISTING WATER MAIN SIZE AND LOCATION PRIOR TO INSTALLING NEW WATER MAIN.
- ⑥ CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES.
- ⑦ BENCHMARK: CHISELED SQUARE IN EXISTING SIDEWALK. ELEVATION = 1071.97.
- ⑧ SITE ACCESS VIA ENTRANCE OFF OF HWY 10.
- ⑨ PROTECT EXISTING 3/4" WATER SERVICE LINE.
- ⑩ ROUTE NEW 10-INCH DUCTILE IRON WATER MAIN UNDER EXISTING 12-INCH MAIN. PROVIDE FITTINGS NEEDED FOR COMPLETE INSTALLATION.
- ⑪ UNDERGROUND ELECTRICAL WORK SHALL BE TRENCHED AND OFFSET A MINIMUM OF 3' FROM THE NEW WATER MAIN CENTERLINE.
- ⑫ PROVIDE EXISTING SINGLE-MODE FIBER, CURRENTLY COILED IN FIBER MANHOLE, IN 2" CONDUIT FROM FIBER MANHOLE TO NEW FIBER PATCH PANEL IN CITY PROVIDED NETWORK CABINET.
- ⑬ SAWCUT EXISTING ASPHALT/CONCRETE AS REQUIRED FOR INSTALLATION OF UNDERGROUND ELECTRICAL WORK. ASPHALT/CONCRETE SHALL BE CUT ON NEAT, PARALLEL LINES AND SHALL NOT BE DAMAGED BEYOND THE LIMITS OF CONSTRUCTION. PROVIDE BASE COURSE AND REPLACE ASPHALT/CONCRETE TO MATCH EXISTING.
- ⑭ PROVIDE 3/4" CONDUIT FROM FUTURE CAMERA LOCATION TO OWNER PROVIDED NETWORK CABINET LOCATED IN ELECTRICAL ROOM.
- ⑮ PROVIDE THREE 1 1/4" CONDUITS FROM EXISTING FIBER MANHOLE TO WELL NO. 12 FOR FUTURE FIBER.
- ⑯ REMOVE EXISTING SERVICE ENTRANCE CONDUCTORS FROM UTILITY COMPANY TRANSFORMER TO HMP-10181-MCC. INTERCEPT TWO EXISTING 3" CONDUITS AT EXTERIOR OF BUILDING AND EXTEND TO NEW SE-ATS. PLUG ABANDONED CONDUITS TO HMP-10181-MCC. PROVIDE NEW CONDUCTORS AS SHOWN ON THE ONE-LINE DIAGRAM ON SHEET 99-E6.5.

[illegible]

SITE SITE PLAN ENLARGED - WATER TREATMENT PLANT

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KE FORSLUND



SHEET
10
05-CE1.4



- KEY NOTES:
- ① SITE ACCESS FROM SIMONIS STREET ONLY AVAILABLE DURING PRIVATE DRIVE ASPHALT WORK.
 - ② CONTRACTOR SHALL COORDINATE WORK ON PRIVATE PROPERTY WITH OWNER (CITY OF STEVENS POINT) PRIOR TO BEGINNING WORK.
 - ③ CONTRACTOR SHALL UNDERCUT A MINIMUM ONE FOOT AND PROVIDE COMPACTED BASE COURSE AS SPECIFIED. DRIVEWAY ELEVATIONS SHALL MATCH EXISTING.
 - ④ BITUMINOUS ASPHALT PER C
05-C5.1.

LEGEND:

NEW ASPHALT PAVEMENT

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EXISTING PRIVATE DRIVEWAY - SITE PLAN

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS

CITY OF STEVENS POINT

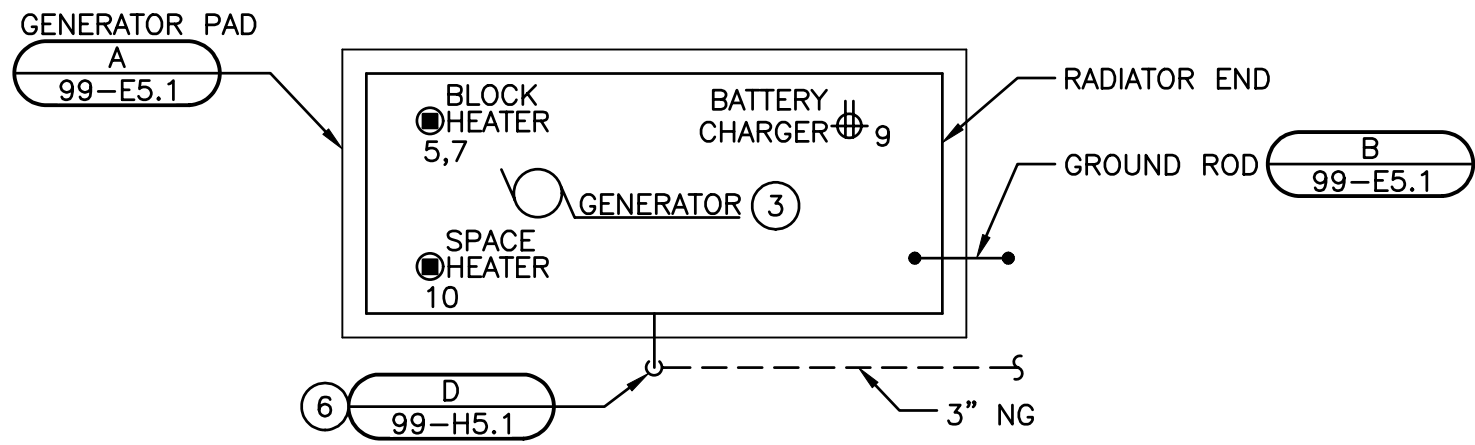
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015

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MIKE FORSLUND



SHEET
11
05-CE1.5



ENLARGED GENERATOR PLAN
NO SCALE

GENERAL NOTES:

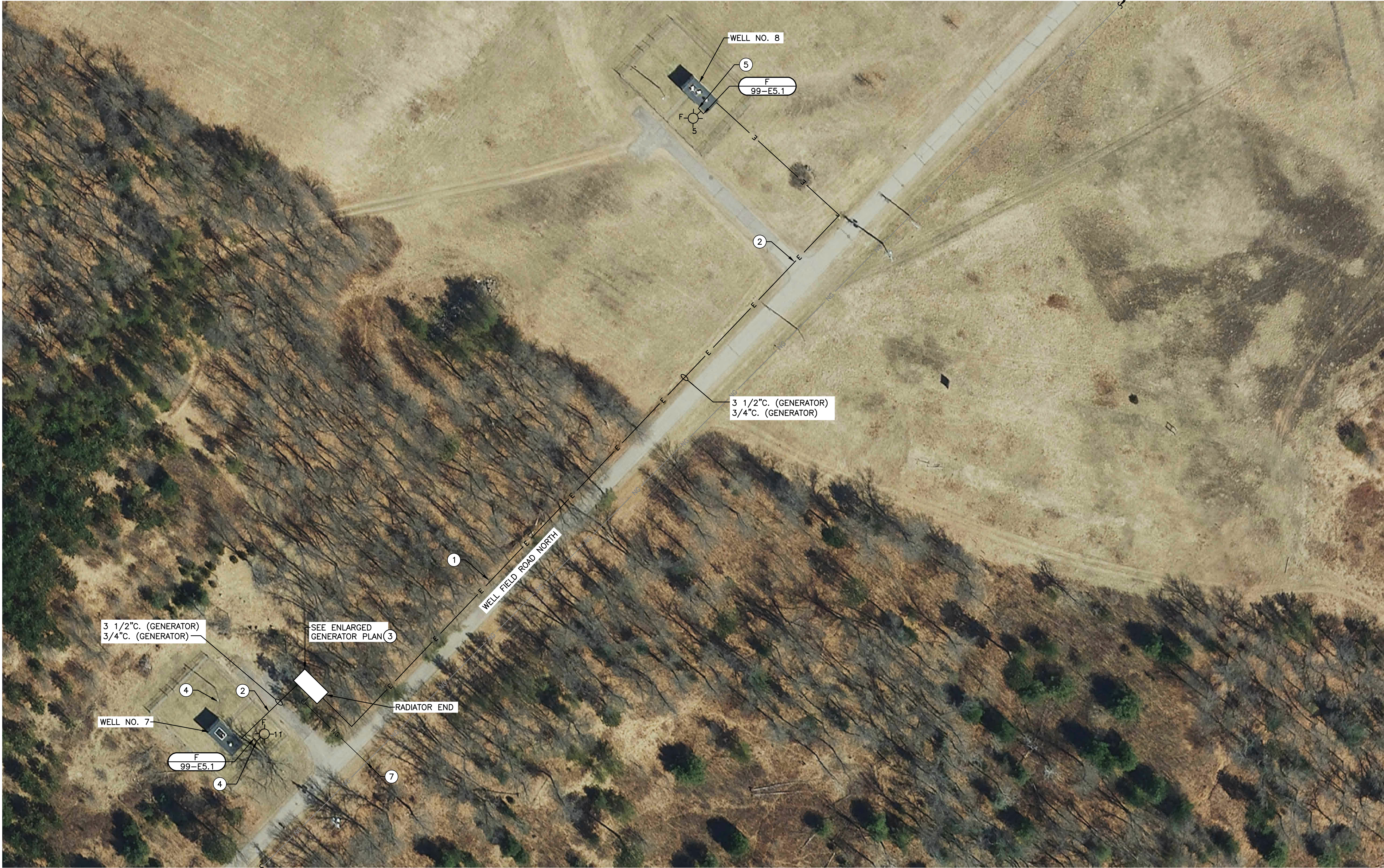
1. ONLY MAJOR ELECTRICAL FEEDER ROUTES ARE SHOWN ON THIS DRAWING. CONDUIT ROUTES FOR BRANCH CIRCUITS, INSTRUMENTATION, COMMUNICATION, AND CONTROL CIRCUITS ARE NOT SPECIFICALLY SHOWN. PROVIDE CONDUIT AND HANDHOLES AS REQUIRED FOR ALL OTHER CIRCUITS.

KEY NOTES:

1. REMOVE TREES AND VEGETATION AS NECESSARY FOR INSTALLATION OF GENERATOR CONDUCTORS AND CONDUITS.
2. SAWCUT EXISTING ASPHALT AS REQUIRED FOR INSTALLATION OF UNDERGROUND ELECTRICAL WORK. ASPHALT SHALL BE CUT ON NEAT, PARALLEL LINES AND SHALL NOT BE DAMAGED BEYOND THE LIMITS OF CONSTRUCTION. PROVIDE BASE COURSE AND REPLACE ASPHALT TO MATCH EXISTING.
3. RELOCATE EXISTING GENERATOR FROM WELL 11 AS SHOWN ON SHEET 30-D1.1. ADJUST GENERATOR CONTROLS AS NECESSARY FOR SINGLE USE. COORDINATE ENCLOSURE INSTALLATION WITH ENCLOSURE MANUFACTURER. GENERATOR AUXILIARY CIRCUITS SHALL BE FED FROM LP-07.
4. REMOVE EXISTING LIGHT FIXTURE AND POLE. COORDINATE WITH UTILITY COMPANY FOR REMOVAL OF EXISTING POWER FEED. NEW POLE SHALL BE LOCATED APPROXIMATELY 10 FEET NORTH-EAST OF THE NORTH-EAST CORNER OF WELL NO. 7, WITH THE NEW FIXTURE FACING NORTH-EAST TOWARDS THE GENERATOR. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION. NEW FIXTURE SHALL BE POWERED FROM LP-07.

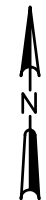
KEY NOTES:

5. REMOVE EXISTING LIGHT FIXTURE. COORDINATE WITH UTILITY COMPANY FOR REMOVAL OF EXISTING POWER FEED. NEW POLE SHALL BE INSTALLED ON SOUTH-WEST SIDE OF THE WELL NO. 8, WITH THE NEW FIXTURE FACING SOUTH-WEST. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION. NEW FIXTURE SHALL BE POWERED FROM LP-08.
6. COORDINATE NATURAL GAS CONNECTION SIZE AND LOCATION WITH EXISTING GENERATOR THAT IS BEING RELOCATED. PROVIDE SHUTOFF VALVE AND PRESSURE REGULATOR PRIOR TO UNIT CONNECTION.
7. EXISTING NATURAL GAS MAIN SERVING WELL FIELD. GAS METER IS LOCATED NEAR THE NORTH SIDE OF WELL NO. 9 WHERE GAS IS DISTRIBUTED AT 10 PSIG. GAS MAIN EXTENDS FROM WELL NO. 9 TO WELL NO. 6 AND THEN TO WELL NO. 10. PROVIDE TIE IN AS SHOWN ON PLAN TO SERVE GENERATOR AT WELL NO. 7. EXISTING GAS MAIN PIPE SIZE IS UNKNOWN. CONTRACTOR SHALL BEGIN EXCAVATION AND NOTIFY ENGINEER IF EXISTING GAS MAIN PIPE SIZE IS UNDER 3".



SITE PLAN

0 10' 20' 40' 80'



WELL NO. 7 AND WELL NO. 8 - SITE PLAN

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
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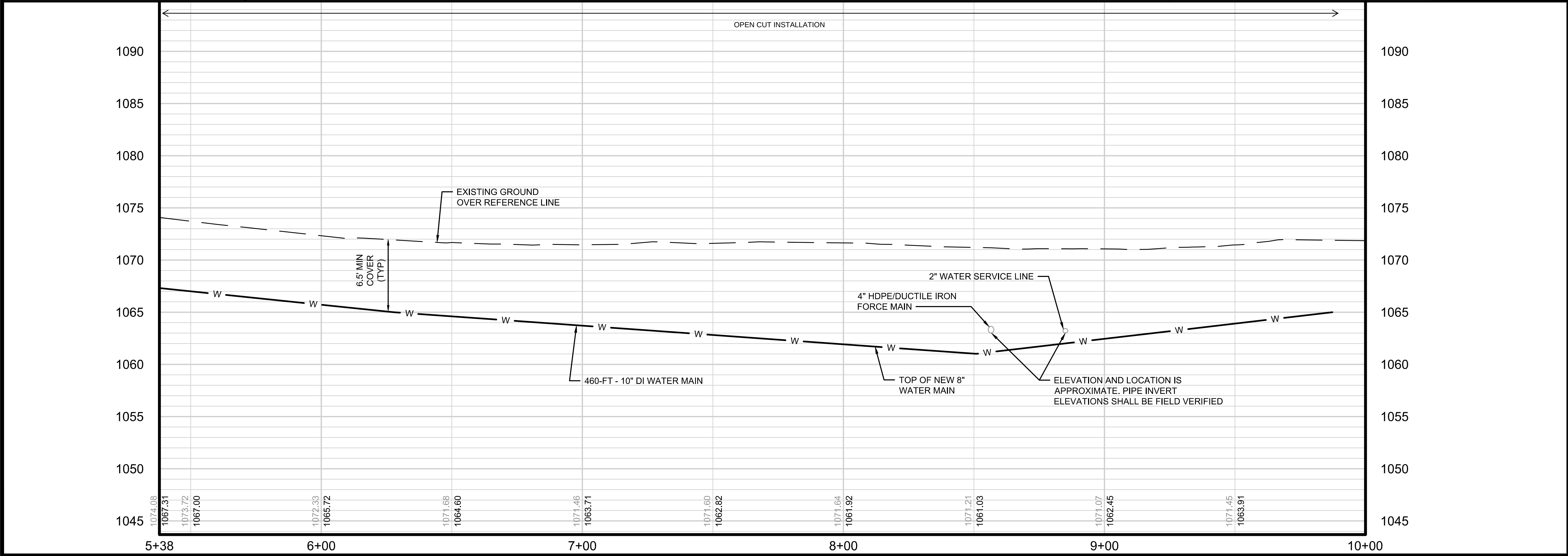
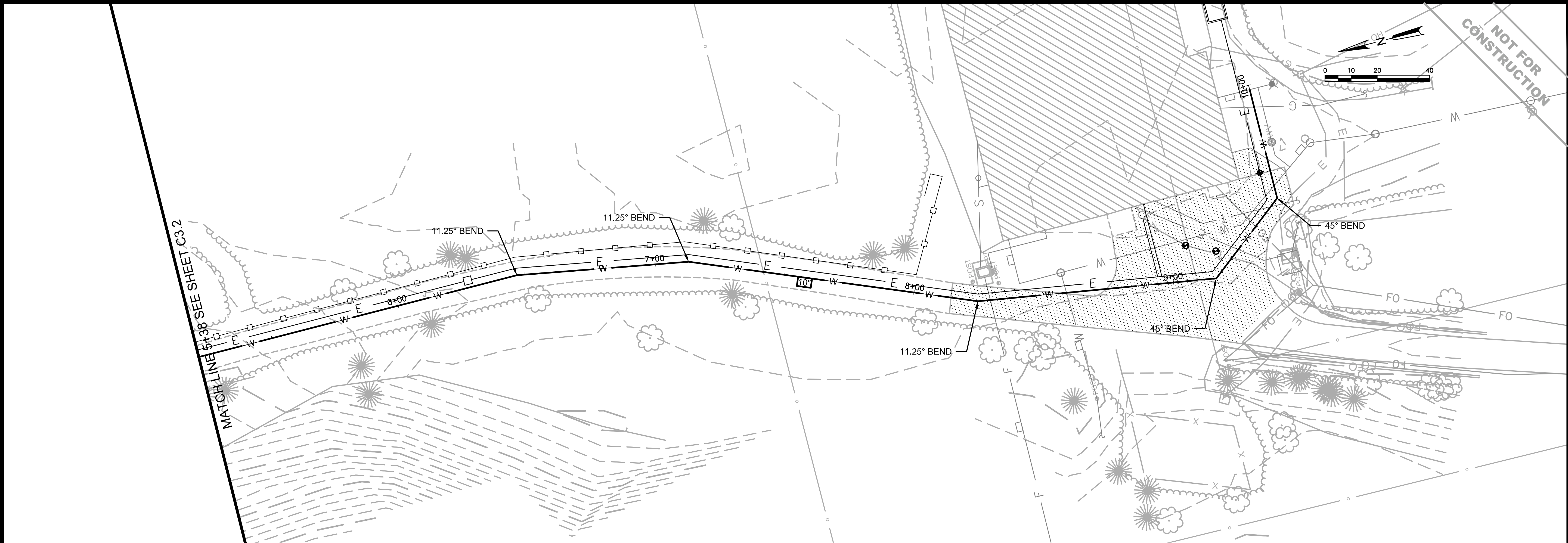
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SHEET
12
05-CE1.6

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	8/27/2026



DATE:		REVISIONS	
8/27/2026		ISSUED FOR BID	
NO.	1		

RAW WATER MAIN PLAN AND PROFILE - 2

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS

CITY OF STEVENS POINT

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SHEET
14
05-C3.2



- NOTES:

- F
05-C5.1

SITE DETAILS

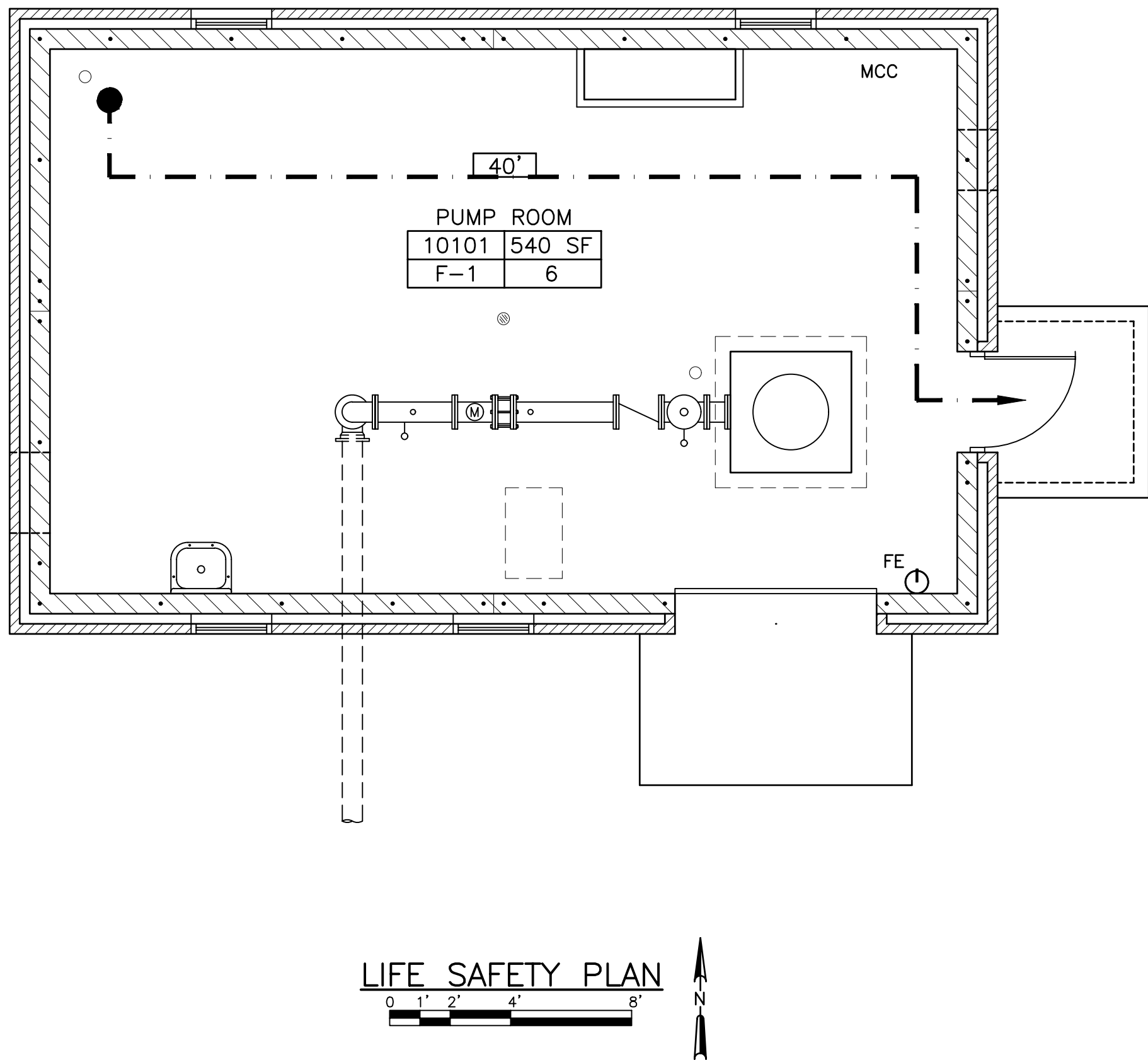
**WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
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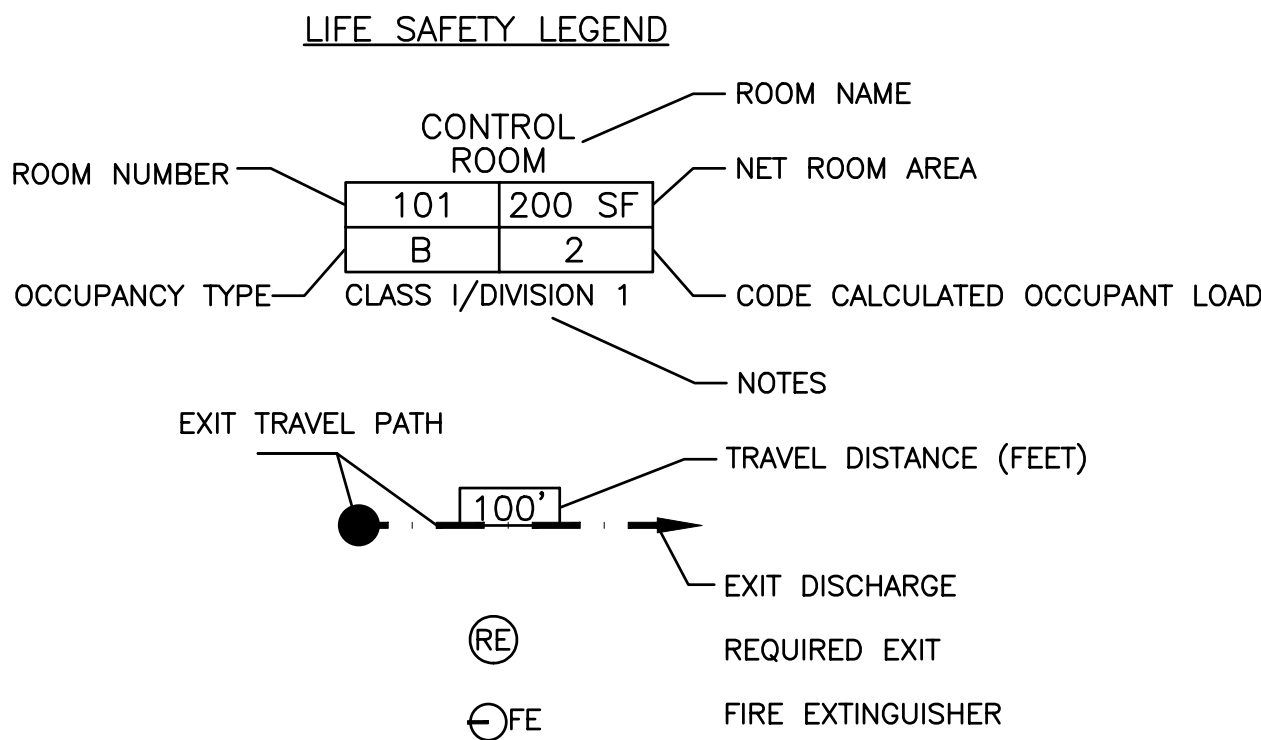
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SHEET
15
05-C5.1



BUILDING CODE INFORMATION			
BUILDING CODE	2021 INTERNATIONAL BUILDING CODE (SPS 362)		
	2021 INTERNATIONAL MECHANICAL CODE (SPS 364)		
	2021 INTERNATIONAL FIRE CODE		
	2021 INTERNATIONAL FUEL GAS CODE (SPS 365)		
	2017 NATIONAL ELECTRICAL CODE (SPS 316)		
	2021 INTERNATIONAL ENERGY CONSERVATION CODE (SPS 363)		
	WISCONSIN PLUMBING CODE (SPS 382)		
SCOPE OF WORK: NEW CONSTRUCTION OF MASONRY SINGLE STORY WELL HOUSE BUILDING WITH FIBER CEMENT SIDING AND WOOD TRUSS ROOF CONSTRUCTION.			
OCCUPANCY TYPE	NON-SEPARATED USE		
USE GROUPS	GROUP F-1: MODERATE-HAZARD FACTORY INDUSTRIAL		
OCCUPANCY TYPE	V-B		
HAZARDOUS MATERIALS:	NONE PRESENT		
OCCUPANCY SEPARATION - NONE REQUIRED			
GENERAL BUILDING INFORMATION			
	ALLOWABLE		ACTUAL
NO. OF STORIES	1 STORY		1 STORY
HEIGHT	40'-0" FEET		10'-0" (EAVE) ; 17'-0" (RIDGE)
PROJECT AREA (NET SF)			
F-1: 540 SF			
TOTAL ALLOWABLE AREA PER FLOOR LEVEL	8,500 SF	TOTAL ACTUAL AREA (GROSS SF)	676 SF
PUBLIC WAYS OR YARDS	ACCESSIBLE FROM 4 SIDES, MIN. 30-FOOT ACCESS WIDTH		
FIRE SUPPRESSION SYSTEM			
AUTOMATIC FIRE SUPPRESSION SYSTEM - NOT PROVIDED			
PORTABLE FIRE EXTINGUISHERS, RATED CLASS A, B, C; 10-POUND CAPACITY.			
NUMBER OF OCCUPANTS			
OCCUPANT LOAD FACTOR	INDUSTRIAL AREAS: 100 GROSS		
OCCUPANT CALCULATION - SEE PLANS			
ACTUAL NUMBER OF OCCUPANTS	ZERO PERMANENT OCCUPANTS, ONLY PRESENT DURING MAINTENANCE AND OPERATION.		
EXIT ACCESS TRAVEL DISTANCE	EXIT ACCESS	COMMON PATH	
	F-1	200 FEET	75 FEET
EXITS: ALL SPACES/OCCUPANCIES REQUIRE 1 EXIT.			
NOTES: 1			



WELL NO. 12 WELL HOUSE
LIFE SAFETY PLAN AND CODE SUMMARY

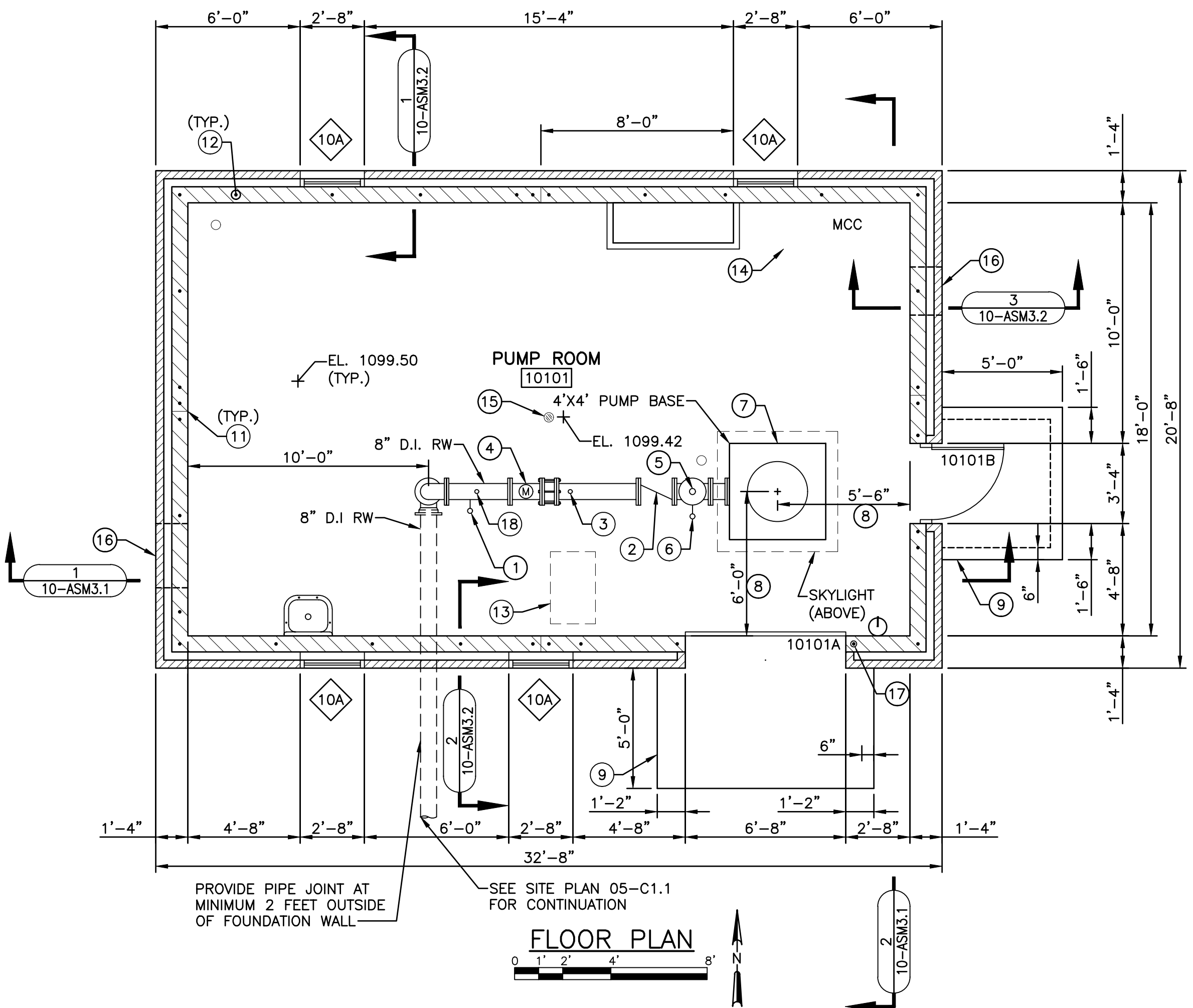
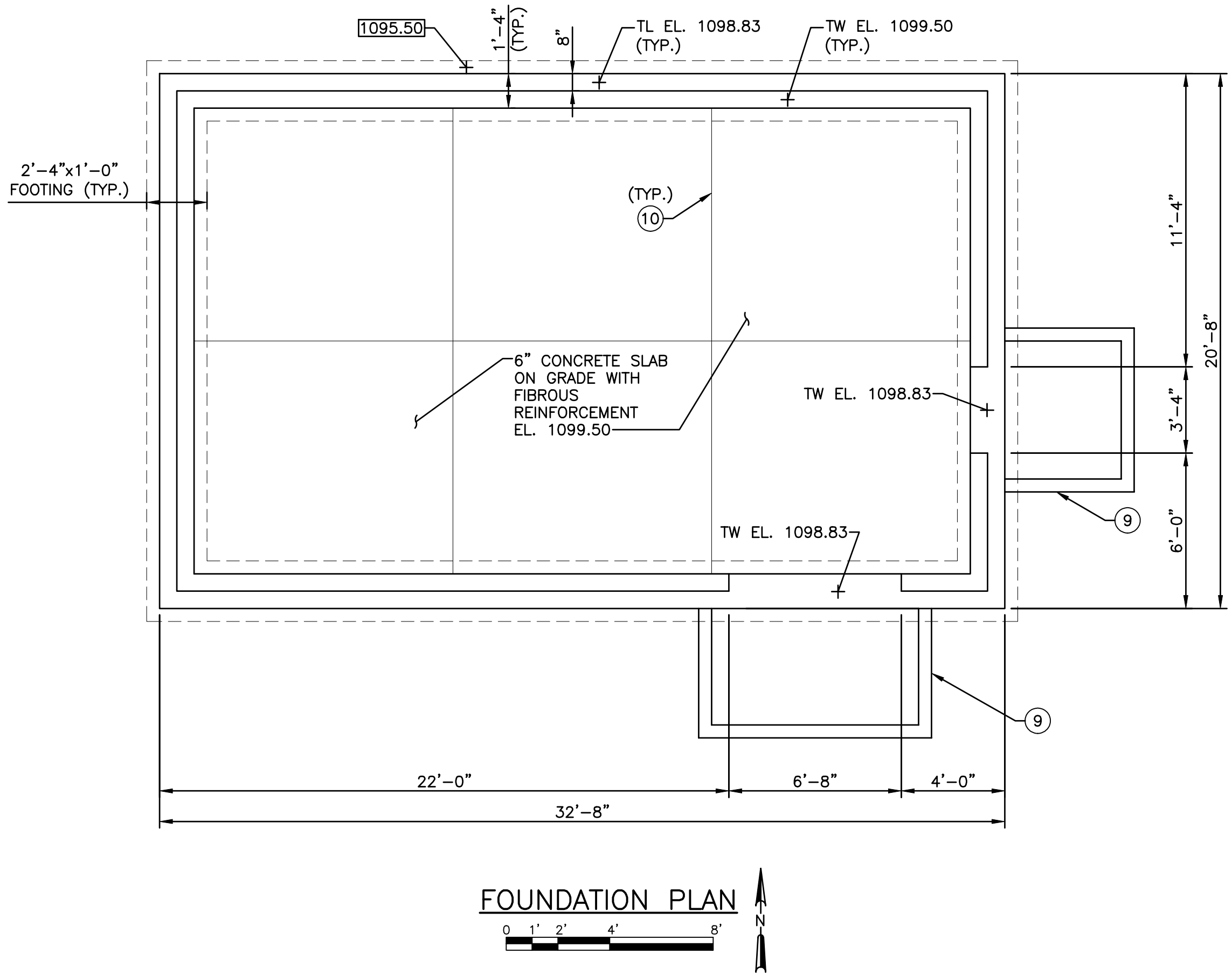
WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
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SHEET
16
10-ASM1.0



- GENERAL NOTES:
1. REFER TO DRAWING 99-ASM6.2 FOR GENERAL STRUCTURAL/ARCHITECTURAL NOTES.

- KEY NOTES:
- 1 1" THREADED TAP AND PLUG FOR FUTURE CHEMICAL FEED.
 - 2 8" SWING ARM CHECK VALVE WITH LIMIT SWITCH.
 - 3 1/2-INCH PIPE TAP, PRESSURE GAUGE AND PRESSURE TRANSDUCER. ISOLATION VALVE UPSTREAM OF TRANSDUCER.
 - 4 CONTRACTOR SHALL INSTALL OWNER FURNISHED 8" MAGNETIC FLOW METER.
 - 5 2" WELL SERVICE AIR RELEASE AND VACUUM RELIEF VALVE. PROVIDE ISOLATION VALVES UPSTREAM OF VALVES AND ROUTE 2" PIPE TO 24" ABOVE HUB DRAIN W/ NO. 24 MESH SS SCREEN.
 - 6 RAW WATER SAMPLE TAP.
 - 7 WELL HEAD PER 99-ASM5.2 PROVIDE PUMP PRELUDE SYSTEM PER SPECIFICATIONS.
 - 8 BUILDING SHALL BE LOCATED BASED ON DIMENSIONS FROM WELL NO. 12.
 - 9 CONCRETE STOOP 99-ASM5.1.
 - 10 PROVIDE SAWN JOINTS PER 99-ASM5.1.
 - 11 MASONRY CONTROL JOINT TYPE 2 99-ASM5.1.
 - 12 #4@48" FULL HEIGHT CENTERED ON 8" CMU WALL. REFER TO GENERAL STRUCTURAL NOTES FOR MORE INFORMATION.
 - 13 ATTIC ACCESS ABOVE 99-ASM5.1.
 - 14 MCC PAD 99-E5.1.
 - 15 LOCALLY SLOPE FLOOR SLAB AT FLOOR DRAIN.
 - 16 PROVIDE LINTEL ABOVE HVAC OPENING IN MASONRY WALL. SEE LINTEL SCHEDULE ON DRAWING 99-ASM6.2. SEE DRAWING 10-H1.1 FOR LOCATION.
 - 17 1~#4 EACH SIDE OF DOOR OPENINGS (TYP.).
 - 18 2-INCH TAP WITH THREADED PLUG IN TOP OF PIPE FOR FUTURE METER CALIBRATION.

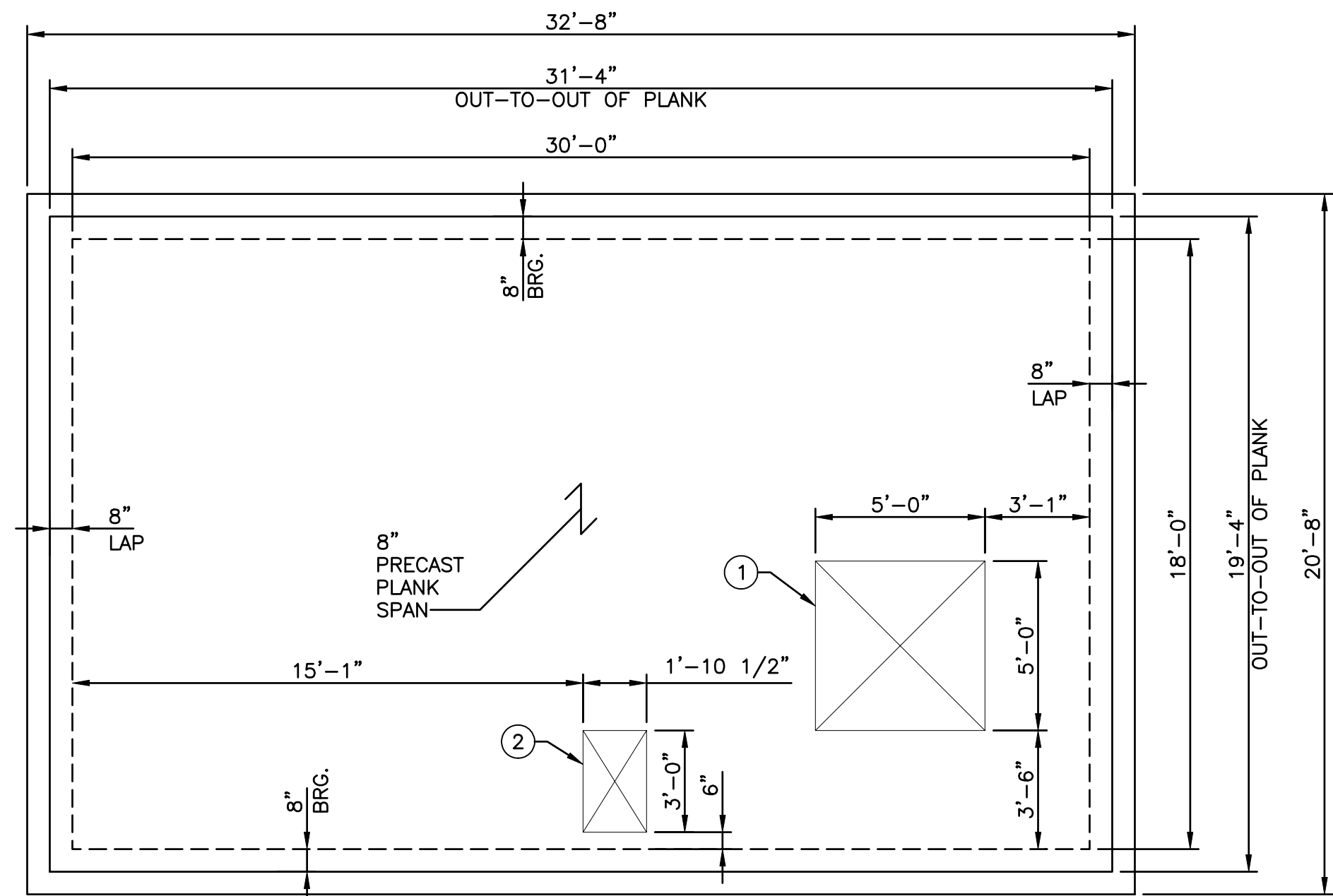
WELL NO. 12 WELL HOUSE
FOUNDATION AND FLOOR PLAN

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

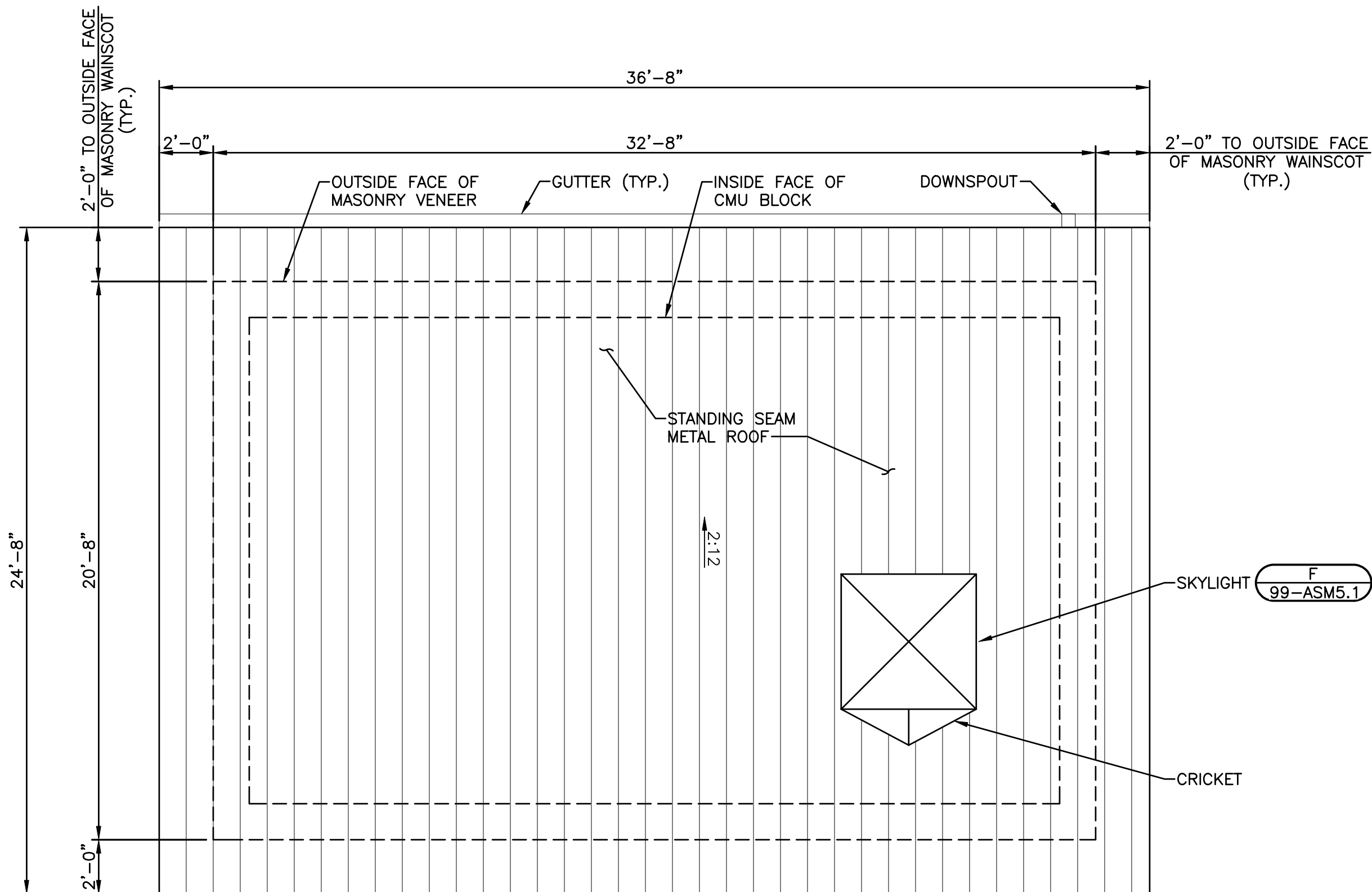
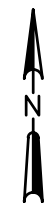
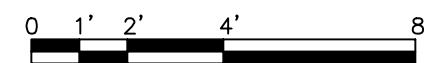
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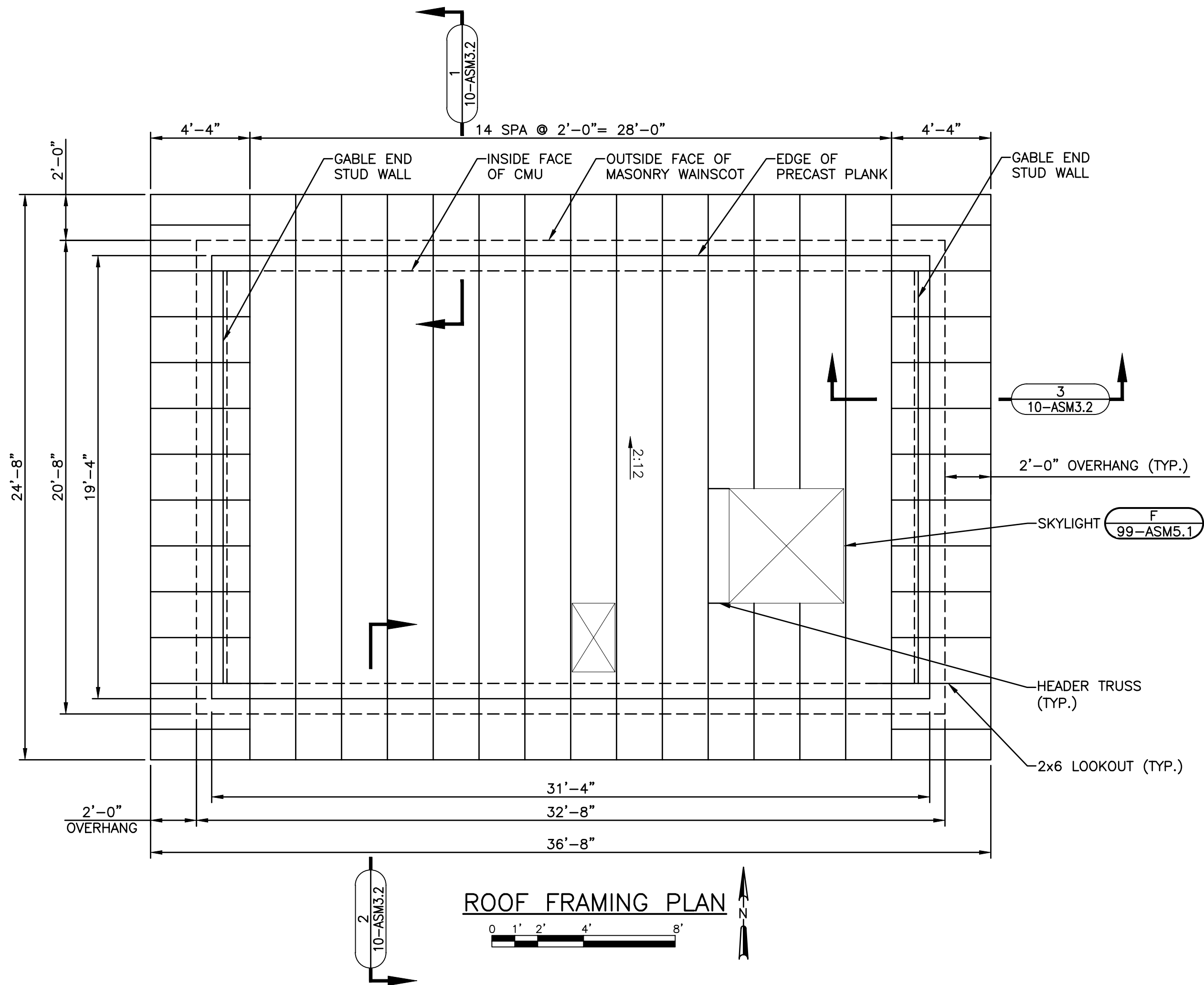
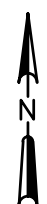
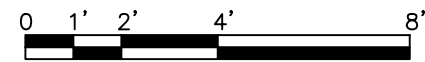
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10-ASM1.1



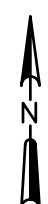
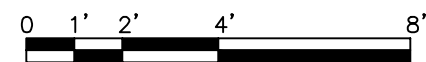
PRECAST PLANK PLAN



ROOF PLAN



ROOF FRAMING PLAN



GENERAL NOTES:

- REFER TO DRAWING 10-ASM1.01 FOR GENERAL NOTES.
- SUPERIMPOSED DESIGN LOADS AT PRECAST PLANK:
DEAD LOAD: 10 PSF
ATTIC LIVE LOAD: 20 PSF

KEY NOTES:

- OPENING IN PRECAST PLANK FOR SKYLIGHT F 99-ASM5.1.
- ATTIC ACCESS OPENING A 99-ASM5.1. COORDINATE LOCATION LAYOUT W/ TRUSS LAYOUT.

WELL NO. 12 WELL HOUSE
PRECAST PLANK, ROOF, AND ROOF FRAMING PLAN

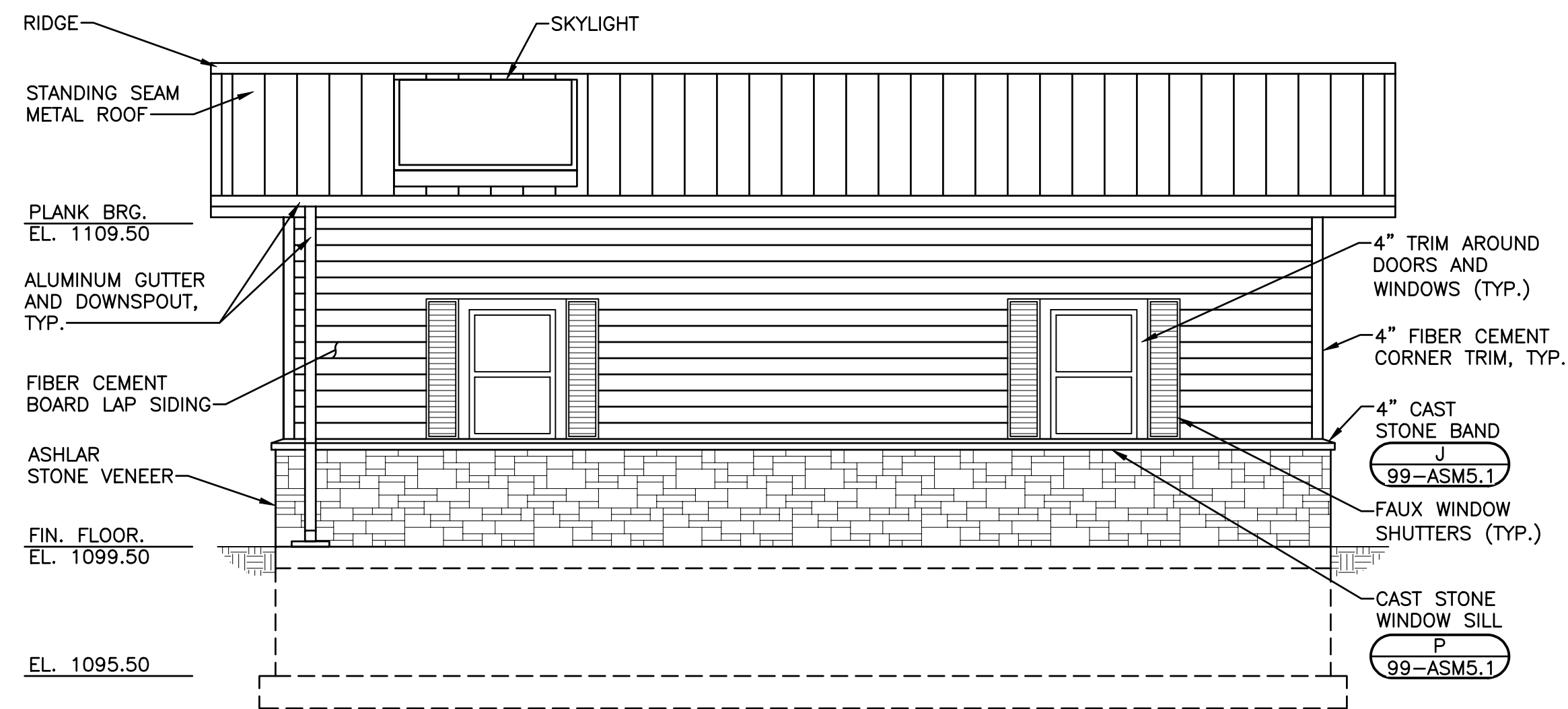
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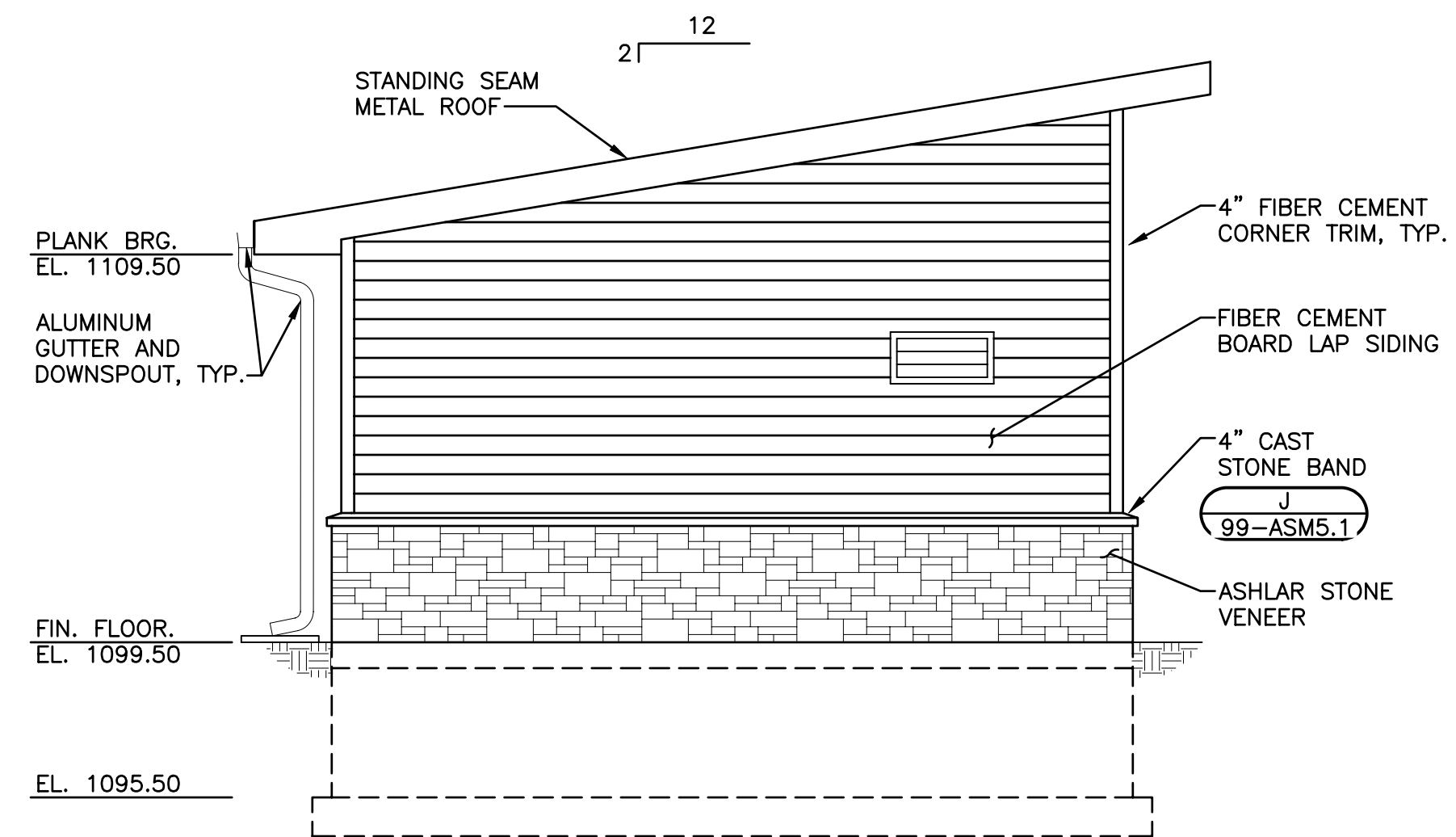
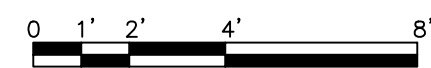


SHEET
18
10-ASM1.2

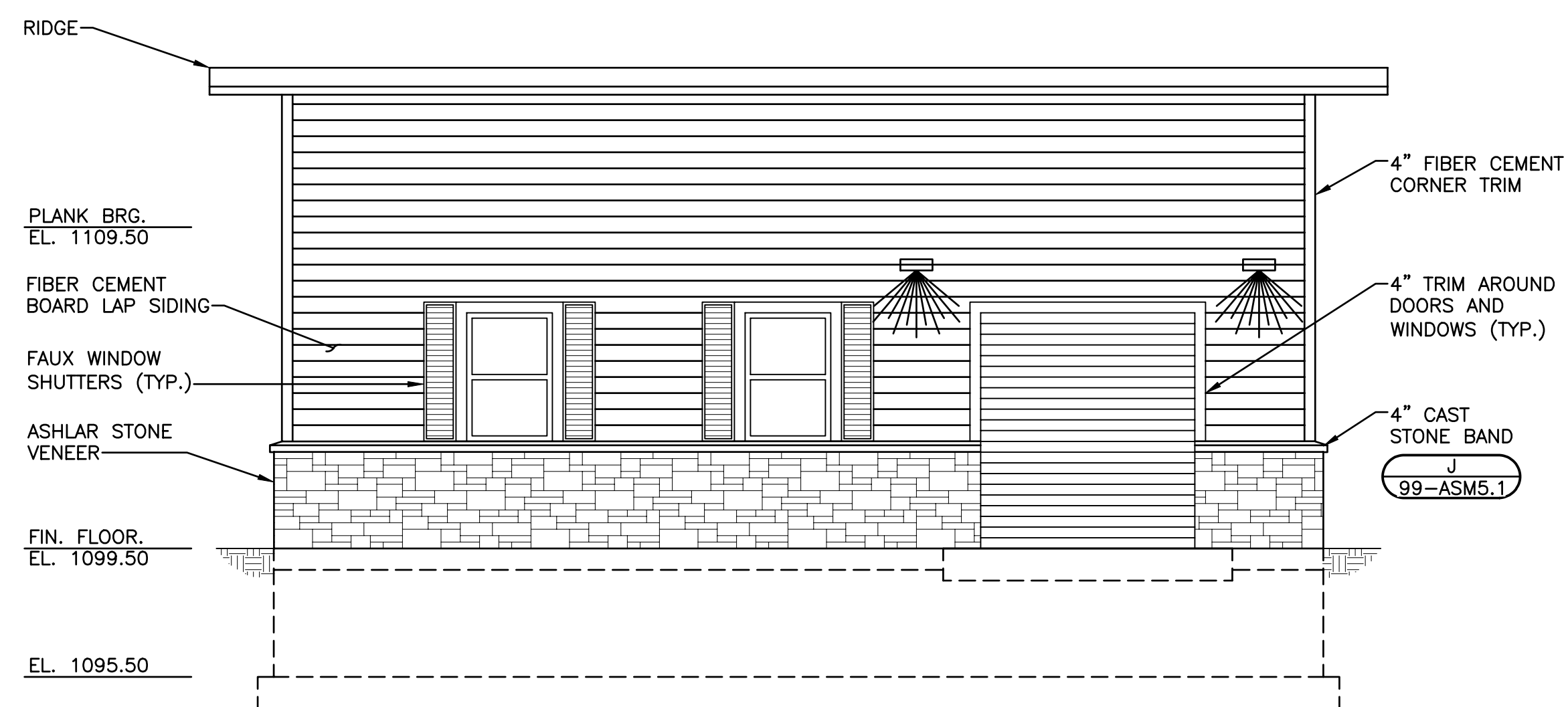
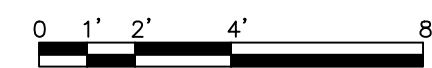
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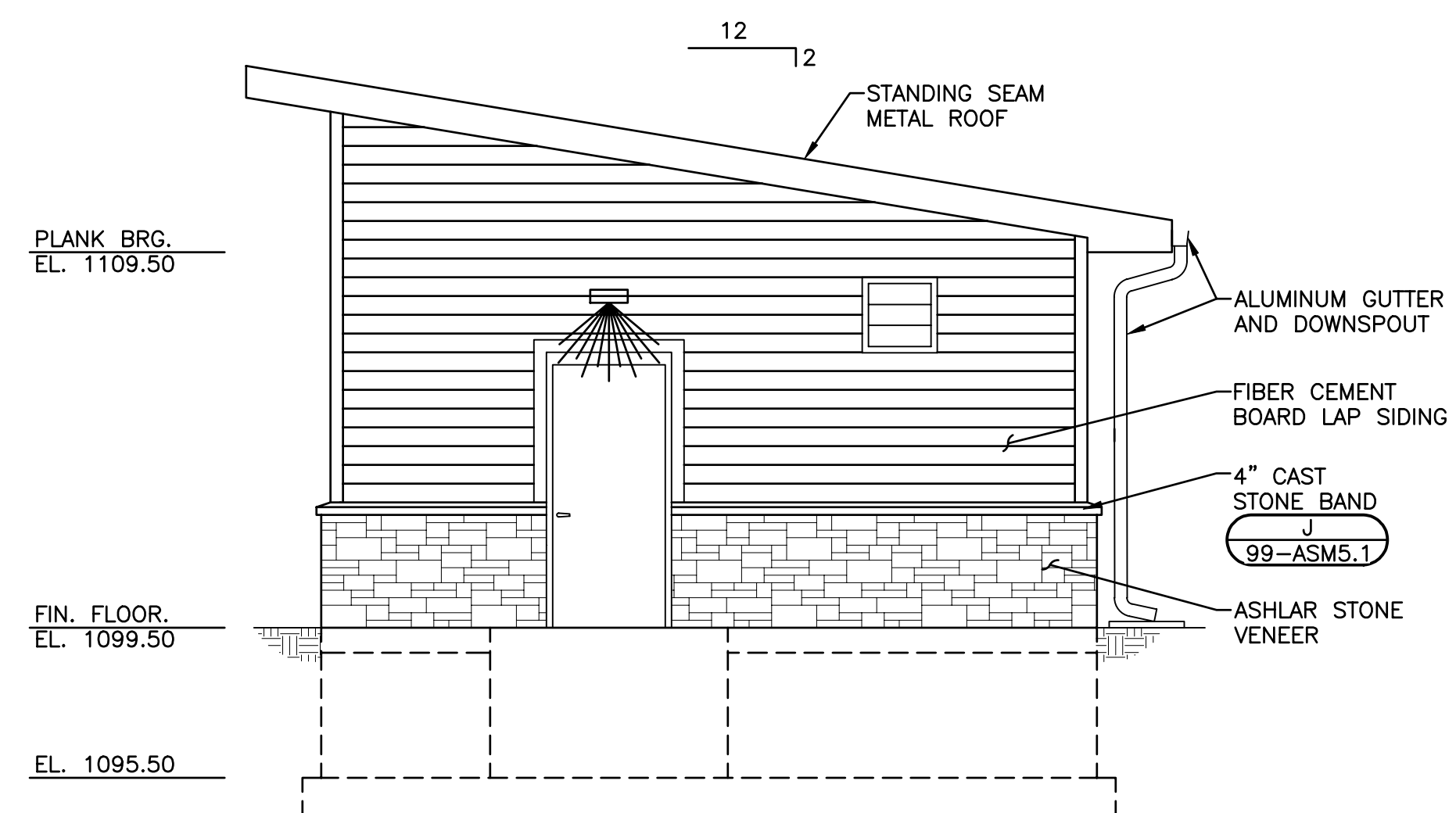
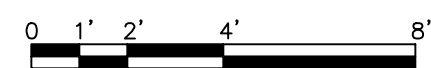
NORTH ELEVATION



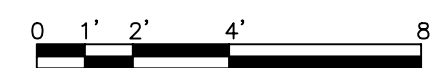
WEST ELEVATION



SOUTH ELEVATION



EAST ELEVATION



NO.	ISSUED FOR BID	ALLOTMENT	DATE
1			9/27/2008

**WELL NO. 12 WELL HOUSE
ELEVATIONS**

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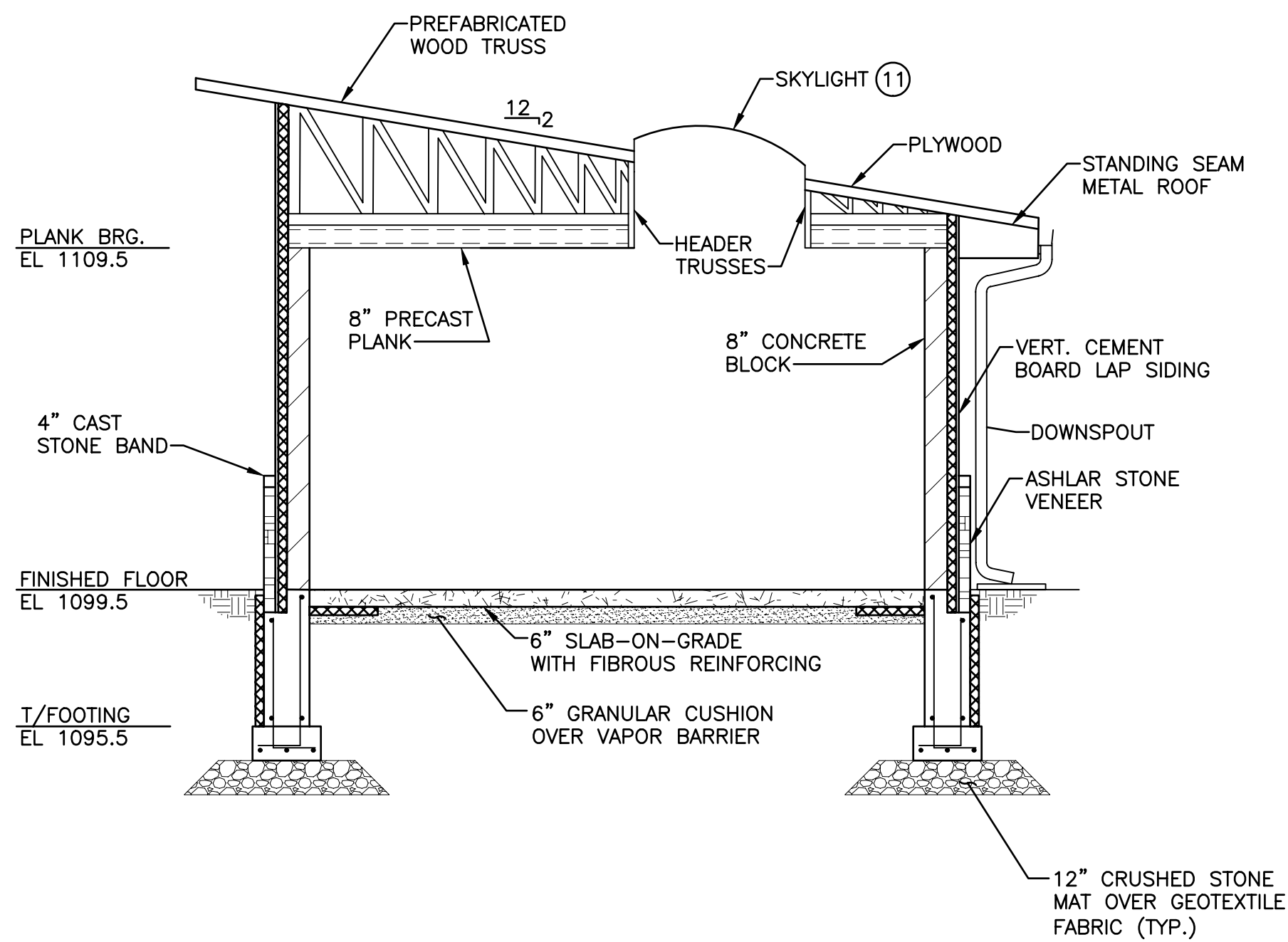
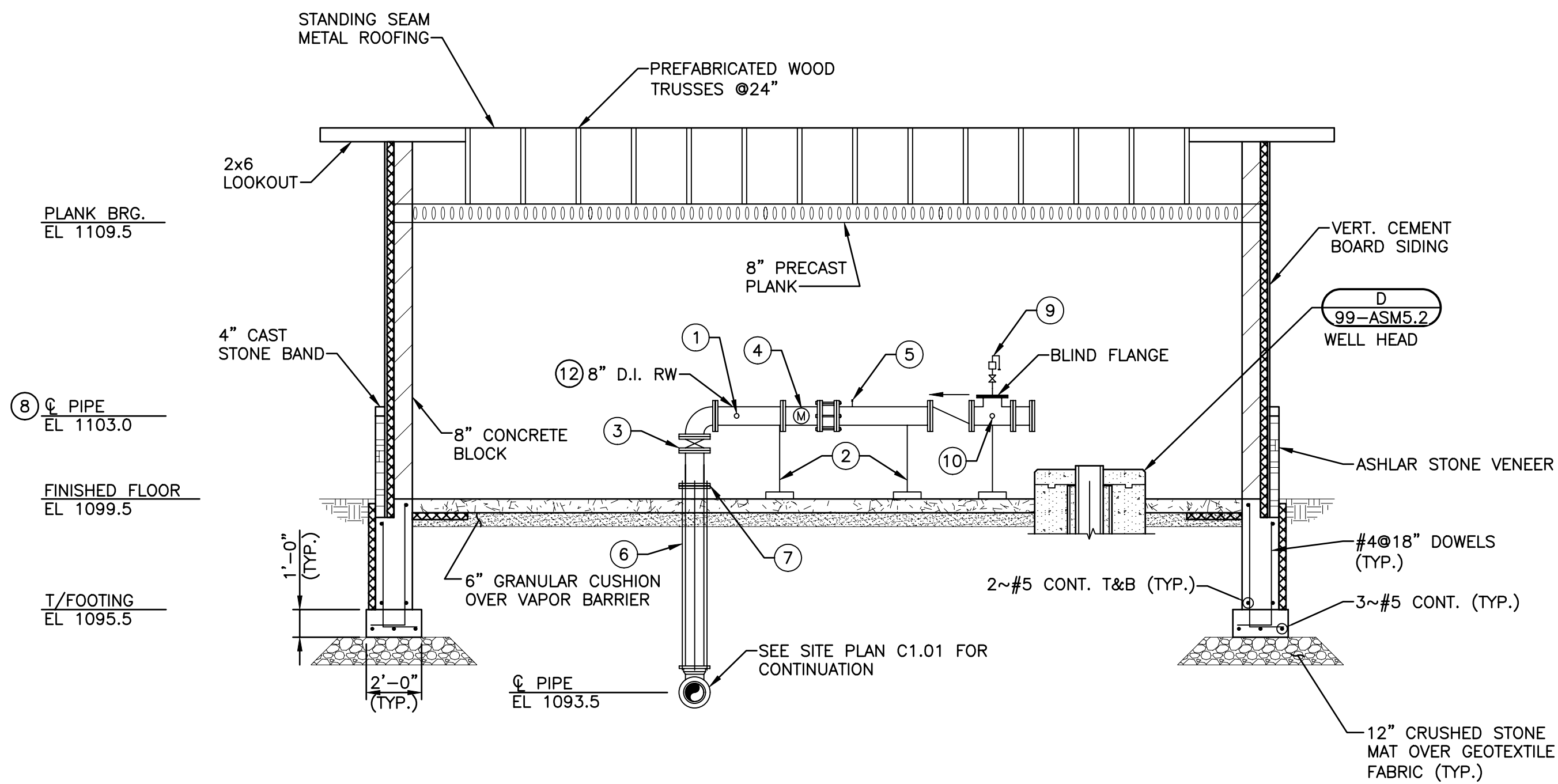
PROJECT MGR.
MIKE FORSLUND



SHEET
19
0-ASM2.1

- KEY NOTES:
- 1 1" THREADED TAP AND PLUG FOR FUTURE CHEMICAL FEED.
 - 2 PROVIDE AT A MINIMUM 3 PIPE SUPPORTS AND PIPE SUPPORTS AT A MINIMUM EVERY 8 FEET.
 - 3 8" BUTTERFLY VALVE.
 - 4 MAGNETIC FLOW METER.
 - 5 TAP FOR PRESSURE GAUGE AND PRESSURE TRANSDUCER.
 - 6 THREADED TIE RODS BOLTED TO FLANGE.
 - 7 RESTRAIN PIPE TO BELOW GRADE ELBOW WITH THREADED TIE RODS.
 - 8 FINAL PIPE C ELEVATION BASED ON WELL PUMP BASE AND DISCHARGE HEAD DIMENSIONS.
 - 9 3" WELL SERVICE AIR RELEASE AND VACUUM RELIEF VALVE. PROVIDE ISOLATION VALVES UPSTREAM OF VALVES AND ROUTE 2" VENT SURGE PIPE TO FLOOR DRAIN. TERMINATE VENT DISCHARGE 24" AFF W/ NO. 24 MESH SS SCREEN.
 - 10 RAW WATER SAMPLE TAP.
 - 11 CENTER SKYLIGHT DIRECTLY ABOVE WELL HEAD.
 - 12 CONTRACTOR TO COORDINATE HEIGHT OF WELL DISCHARGE PIPING WITH DIMENSIONS OF WELL DISCHARGE HEAD AND ESTABLISH ELEVATION OF DISCHARGE PIPING ACCORDINGLY.

DATE:	8/27/2026								
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WELL NO. 12 WELL HOUSE
SECTIONS

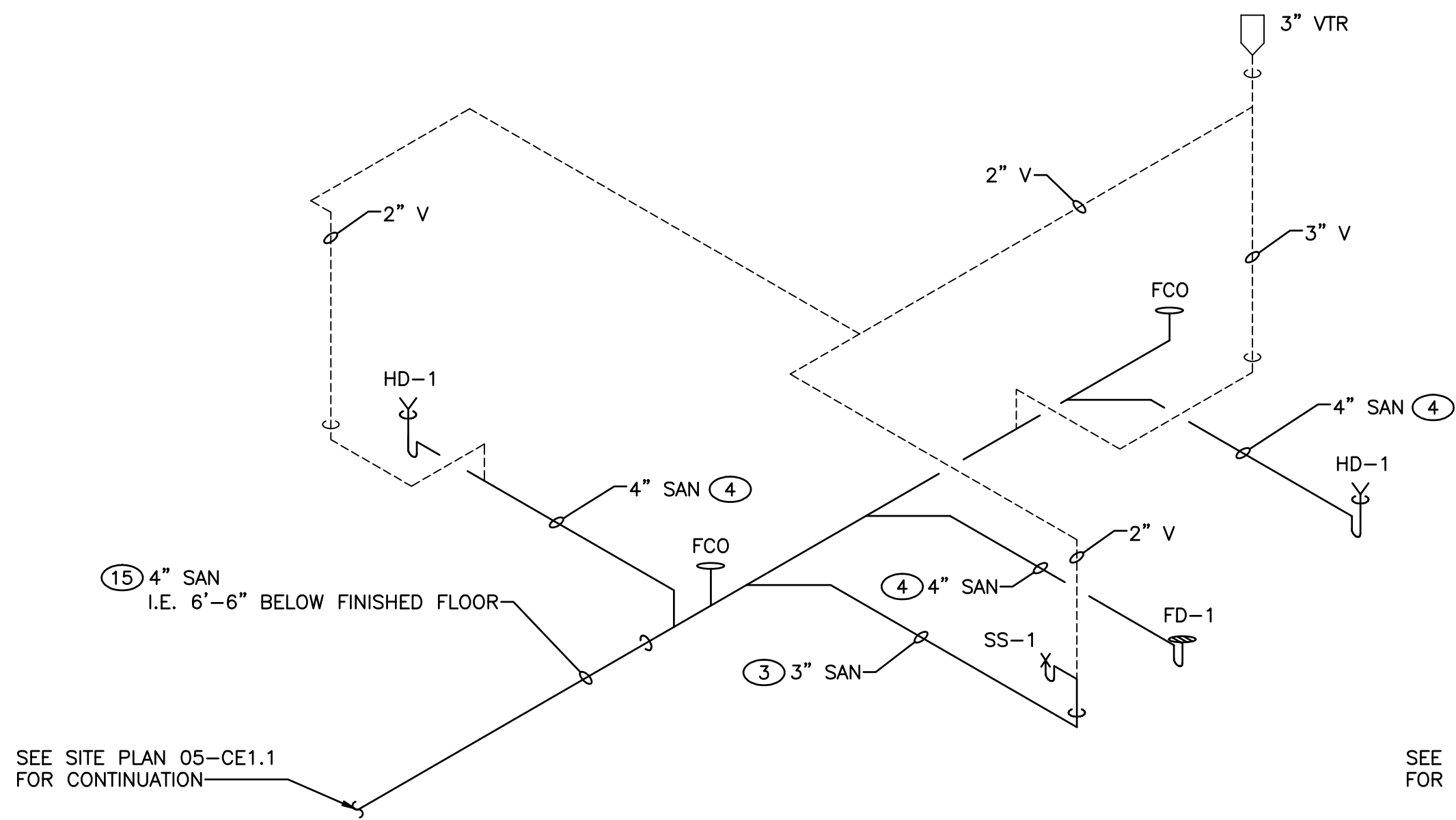
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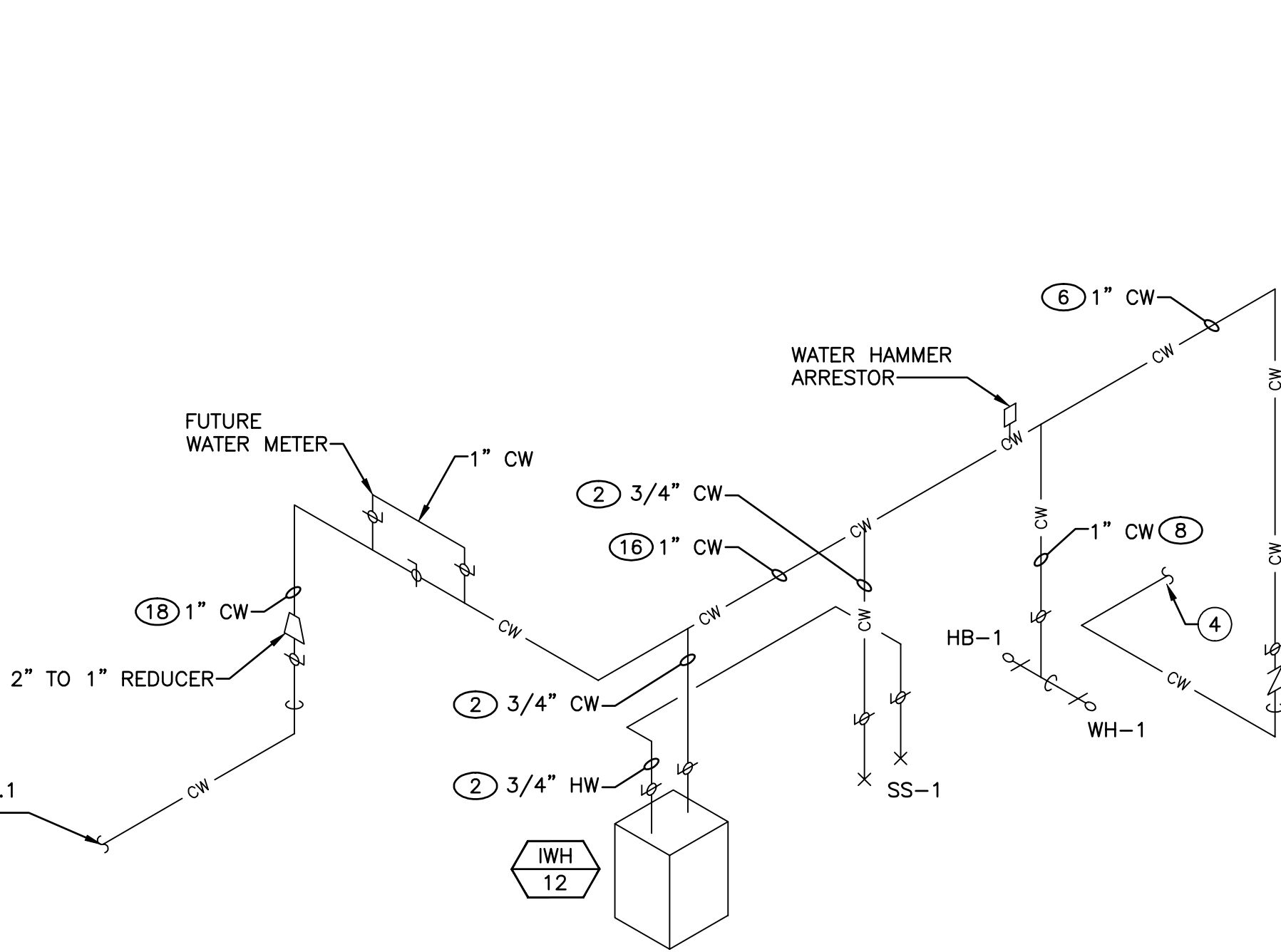
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SHEET
20
10-ASM3.1



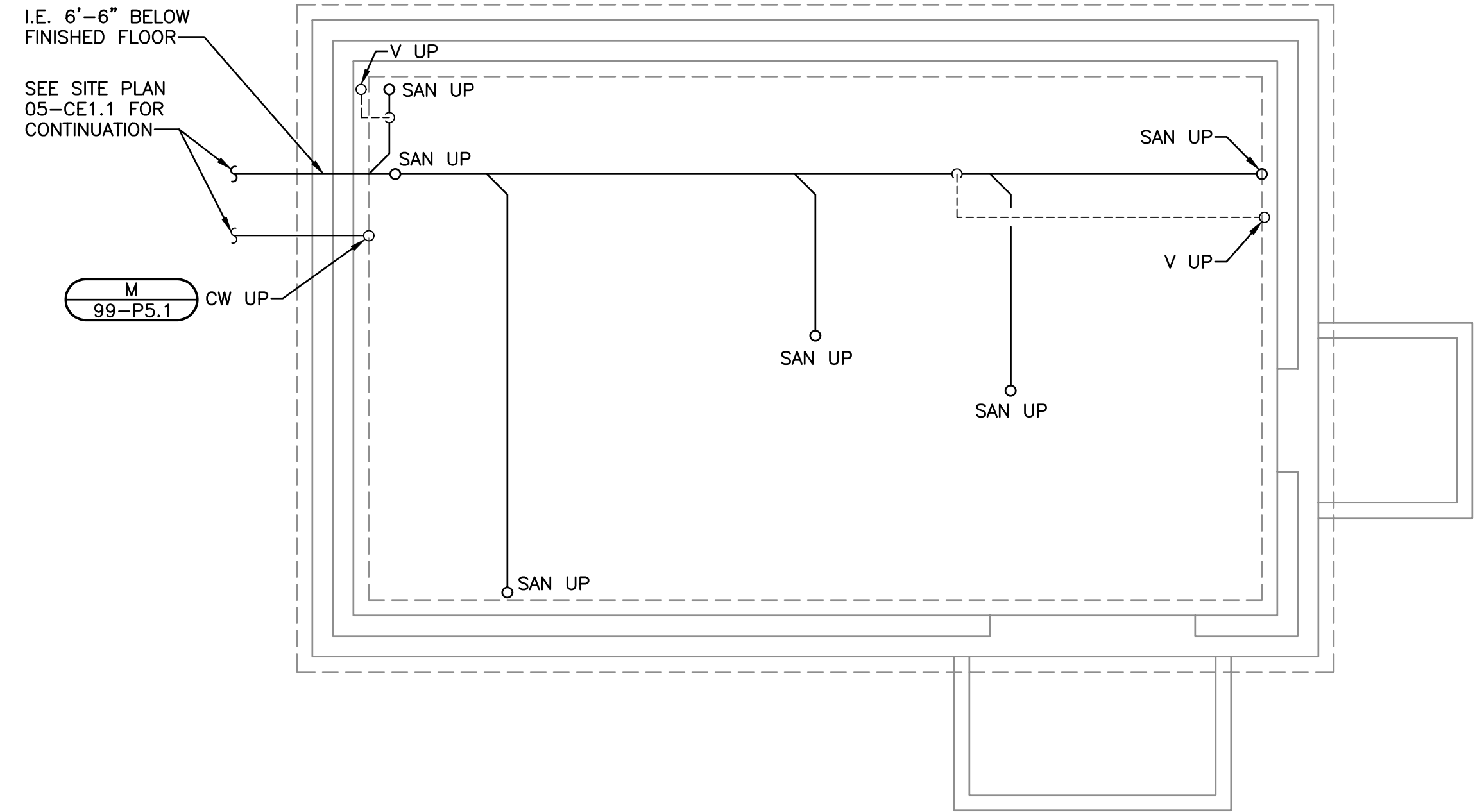
SANITARY AND VENT ISOMETRIC
NO SCALE



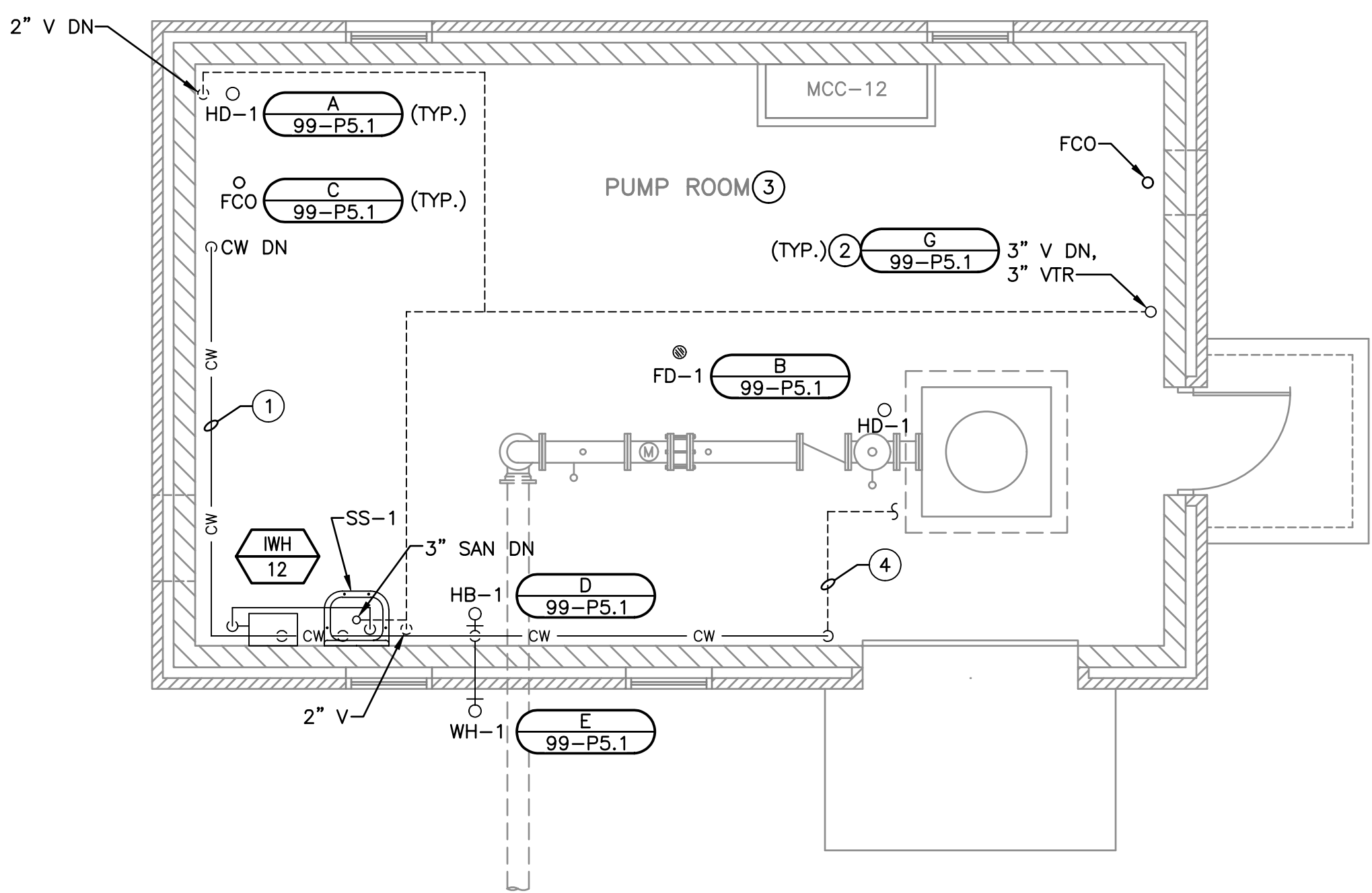
WATER SUPPLY ISOMETRIC
NO SCALE

- GENERAL NOTES:
- COORDINATE WITH OTHER TRADES TO ELIMINATE CONFLICTS BETWEEN PIPING, DUCTWORK, ELECTRICAL WORK, ETC.
 - CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CERTIFIED SHOP DRAWINGS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
 - ALL PIPE LOCATIONS AND ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND NEW PIPE ROUTING AND ELEVATIONS PRIOR TO FABRICATION AND INSTALLATION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PIPING OFFSETS REQUIRED FOR COMPLETE SYSTEM INSTALLATION.
 - PIPE AND EQUIPMENT PENETRATIONS SHALL BE COORDINATED AS TO NOT INTERFERE WITH ROOF STRUCTURE. ALL PENETRATIONS SHALL BE FIELD COORDINATED WITH GENERAL CONTRACTOR.
 - COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED SHOP DRAWINGS.
 - MAINTAIN FIRE RATINGS OF PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLANS FOR FIRE RATED ASSEMBLY LOCATIONS AND RATINGS. ALL PENETRATIONS THROUGH WALLS SHALL BE SLEEVED AND SEALED TO MAKE WATERTIGHT.
 - TEMPORARILY PATCH ALL ROOF OPENINGS WATERTIGHT UNTIL FINAL CLOSURE CAN BE MADE.
 - FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPES SIZES NOT SHOWN ON FLOOR PLANS, REFER TO DETAILS, ISOMETRICS AND SCHEDULES.

- KEY NOTES:
- BOTTOM OF PIPE INSULATION SHALL BE 7'-0" AFF.
 - PROVIDE TRAP GUARDS IN ALL FLOOR DRAINS AND HUB DRAINS IN THIS SPACE.
 - ALL PIPE ROUTES SHALL NOT INTERFERE WITH ATTIC ACCESS DOOR.
 - ROUTE 1" COLD WATER PIPE BELOW SLAB TO WELL PUMP WATER CONNECTION. COORDINATE CONNECTION SIZE, LOCATION, AND ELEVATION WITH PROCESS EQUIPMENT MANUFACTURER.



UNDERGROUND PLUMBING PLAN



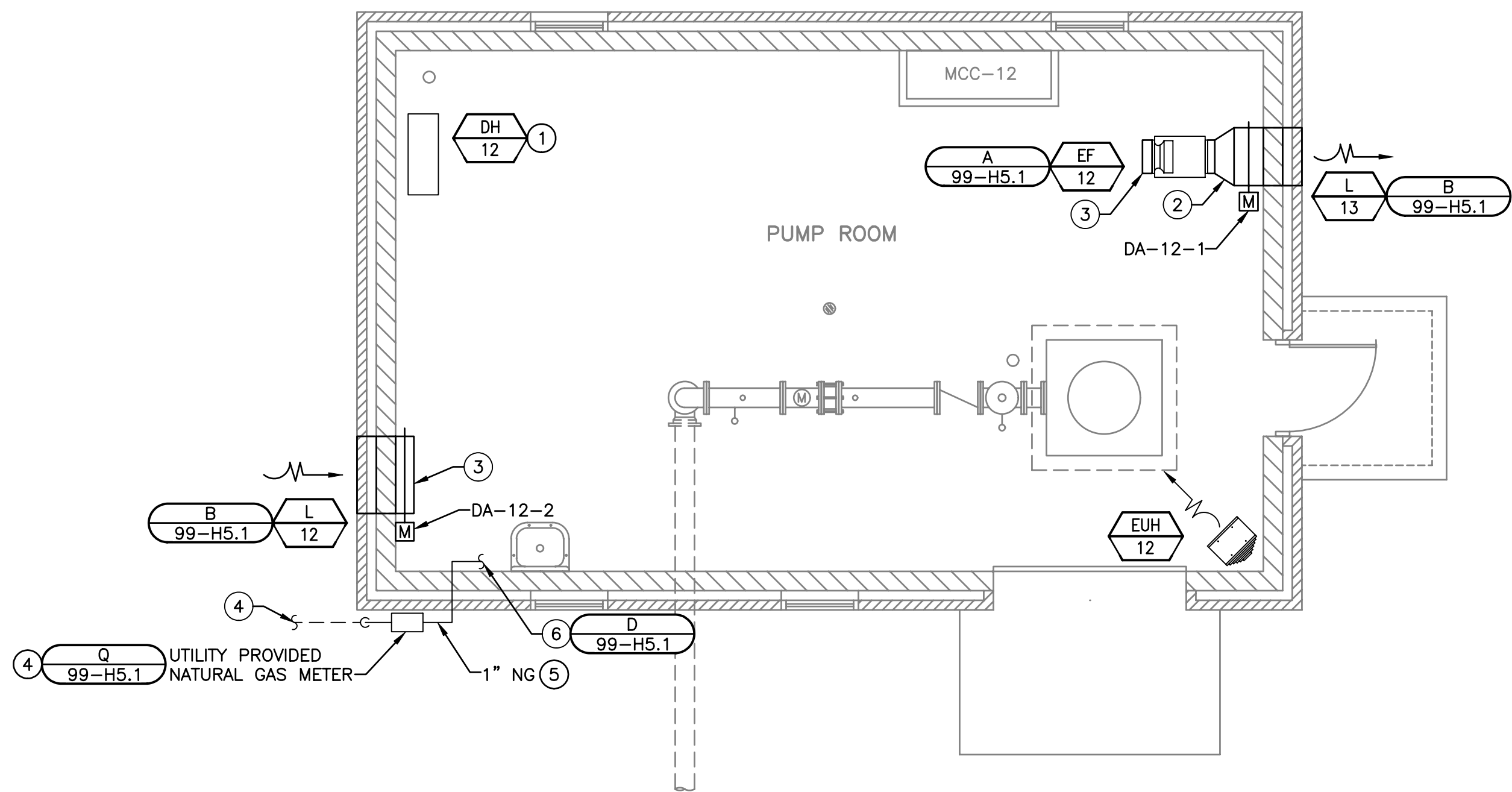
ABOVE GROUND PLUMBING PLAN

WELL NO. 12 WELL HOUSE
PLUMBING
UNDERGROUND, ABOVE GROUND PLANS, AND ISOMETRICS
WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015
PROJECT MGR.
MIKE FORSLUND



SHEET
22
10-P1.1



HVAC PLAN

GENERAL NOTES:

- COORDINATE WITH OTHER TRADES TO ELIMINATE CONFLICTS BETWEEN PIPING, DUCTWORK, ELECTRICAL WORK, ETC.
- CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CERTIFIED SHOP DRAWINGS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DUCTWORK TRANSITIONS AND OFFSETS REQUIRED FOR COMPLETE SYSTEM INSTALLATION.
- DUCT AND EQUIPMENT PENETRATIONS SHALL BE COORDINATED AS TO NOT INTERFERE WITH ROOF STRUCTURE. ALL PENETRATIONS SHALL BE FIELD COORDINATED WITH GENERAL CONTRACTOR.
- EXISTING INFORMATION SHOWN ON DRAWINGS WAS TAKEN FROM EXISTING PLANS AND IS APPROXIMATE. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY CONTRACTOR.
- ALL DUCT LOCATIONS AND ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND NEW DUCT ROUTING AND ELEVATIONS PRIOR TO FABRICATION AND INSTALLATION.
- COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED SHOP DRAWINGS.
- MAINTAIN FIRE RATINGS OF PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLANS FOR FIRE RATED ASSEMBLY LOCATIONS AND RATINGS. ALL PENETRATIONS THROUGH WALLS SHALL BE SLEEVED AND SEALED TO MAKE WATERTIGHT.
- TEMPORARILY PATCH ALL ROOF OPENINGS WATERTIGHT UNTIL FINAL CLOSURE CAN BE MADE.
- ALL LOW VOLTAGE (<100 VOLTS) WIRING ASSOCIATED WITH HVAC EQUIPMENT SHALL BE PROVIDED BY DIVISION 23. ALL LINE VOLTAGE ELECTRICAL CONTROLS AND WIRING SHALL BE PROVIDED BY DIVISION 26. ALL CONDUIT SHALL BE PROVIDED BY DIVISION 26. WHERE CONTROLS ARE TO BE FURNISHED WITH EQUIPMENT, ELECTRICAL CONTROLS AND WIRING SHALL BE IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS.

KEY NOTES:

- ROUTE DEHUMIDIFIER CONDENSATE DRAIN TO NEARBY HUB DRAIN.
- TRANSITION FROM LOUVER CONNECTION SIZE TO FAN CONNECTION SIZE.
- PROVIDE DUCTWORK FOR SCREENED INLET. DUCTWORK SIZE AND SCREENED INLET SIZE SHALL MATCH EQUIPMENT CONNECTION SIZE.
- COORDINATE WITH UTILITY FOR NATURAL GAS PIPE CONNECTION TO NEARBY GAS MAIN. UTILITY SHALL BE RESPONSIBLE FOR DESIGN AND INSTALLATION OF PIPING NETWORK. UTILITY SHALL PROVIDE AND INSTALL METER ADJACENT TO BUILDING.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTION TO GAS METER AND PIPING FROM METER TO BUILDING EQUIPMENT. SEAL BUILDING PIPE PENETRATIONS AIRTIGHT.
- ROUTE NATURAL GAS TO INSTANTANEOUS WATER HEATER. COORDINATE UNIT CONNECTION SIZE WITH MANUFACTURER CERTIFIED SHOP DRAWINGS. PROVIDE SHUTOFF VALVE AND PRESSURE REDUCING VALVE PRIOR TO UNIT CONNECTION. REGULATE PRESSURE DOWN TO MANUFACTURER'S RECOMMENDED OPERATING PRESSURE.

WELL NO. 12 WELL HOUSE
HVAC PLAN

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

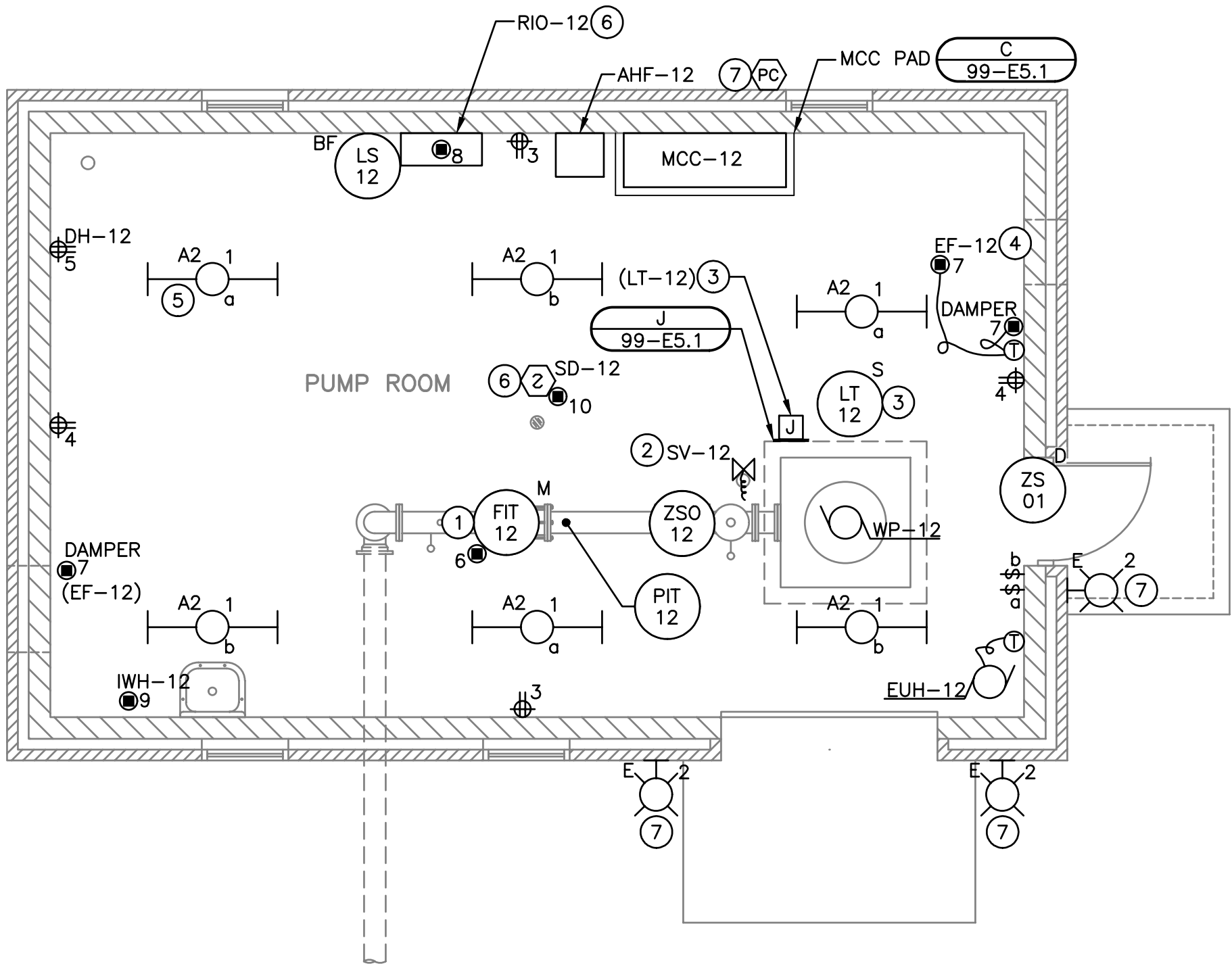
JOB NO.
1038.015

PROJECT MGR.
MIKE FORSLUND



SHEET
23
10-H1.1

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	8/27/2026



ELECTRICAL PLAN

GENERAL NOTES:

1. REFER TO SPECIFICATION SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE SCADA SYSTEM.
2. THERMOSTATS ON EXTERIOR WALLS SHALL HAVE INSULATED BASES.

KEY NOTES:

- ① FLOW METER PROVIDED BY OTHERS AND WIRED BY DIVISION 26.
- ② SOLENOID VALVE FOR PUMP PRELUBE SYSTEM SHALL BE POWERED FROM MCC-12.
- ③ WELL DEPTH IS APPROXIMATELY 52'. PROVIDE NEMA 4X, STAINLESS STEEL JUNCTION BOX FOR TERMINATION OF MANUFACTURER-FURNISHED LEVEL TRANSMITTER CABLE. JUNCTION BOX SHALL BE FURNISHED BY THE 26 09 00 SYSTEM SUPPLIER. PROVIDE MANUFACTURER-FURNISHED CABLE IN 3/4" CONDUIT FROM LEVEL TRANSMITTER TO JUNCTION BOX.
- ④ THE MOTOR SHALL START AND RUN WHEN THE ROOM TEMPERATURE RISES ABOVE THE TEMPERATURE SET ON THE ASSOCIATED THERMOSTAT. THE MOTOR SHALL SHUT DOWN WHEN THE ROOM TEMPERATURE FALLS BELOW THE TEMPERATURE SET ON THE ASSOCIATED THERMOSTAT. THE ASSOCIATED DAMPERS SHALL OPEN WHEN THE MOTOR IS RUNNING.
- ⑤ COORDINATE LIGHT FIXTURE LOCATION SUCH THAT ATTIC ACCESS HATCH IS NOT BLOCKED.
- ⑥ SMOKE DETECTOR SHALL BE FURNISHED BY THE SECTION 26 09 00 SYSTEM SUPPLIER AND INSTALLED AND WIRED BY DIVISION 26. PROVIDE 2~#12 AND #12 GROUND IN 3/4" CONDUIT FROM RIO-12 TO SMOKE DETECTOR FOR 120V POWER.
- ⑦ EXTERIOR LIGHTING CIRCUIT SHALL BE WIRED THROUGH PHOTOCELL.

WELL NO. 12 WELL HOUSE
ELECTRICAL PLAN

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015

PROJECT MGR.
MIKE FORSLUND



SHEET
24
10-E1.1

GENERAL NOTES:

- EXISTING INFORMATION SHOWN ON DRAWINGS IS BASED ON RECORD DRAWINGS OF THE STRUCTURES PROVIDED BY OWNER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING INFORMATION AS REQUIRED FOR BIDDING AND CONSTRUCTION.
- REFER TO SPECIFICATION SECTION 02 41 00 AND 01 11 00 FOR ADDITIONAL DEMOLITION AND CONSTRUCTION SEQUENCE INFORMATION.
- DISPOSE OF ALL MATERIALS REMOVED EXCEPT THOSE SPECIFIED TO BE SALVAGED. REFER TO SPECIFICATION SECTION 02 41 00.
- CONTRACTOR SHALL COVER AND PROTECT ALL EXISTING EQUIPMENT TO REMAIN FROM DUST AND DEBRIS DURING CONSTRUCTION.

DEMOLITION GENERAL NOTES:

- REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIALS ASSOCIATED WITH THE ITEMS BEING REMOVED AS SHOWN ON THIS DRAWING, AS WELL AS ALL EXISTING ELECTRICAL DEVICES, MATERIALS, EQUIPMENT, WIRING, AND EXPOSED CONDUITS NOT BEING REUSED. CONCEALED CONDUITS NOT BEING REUSED SHALL BE CAPPED AND ABANDONED IN PLACE.
- PATCH ALL STRUCTURE HOLES AND DEFORMATIONS RESULTING FROM DEMOLITION TO MATCH EXISTING. MOLD PATCHES TO GROUT LINES FOR REPAIRS ON BRICK AND BLOCK WALLS.
- HATCHING FOR SOME ITEMS BEING REMOVED NOT SHOWN FOR CLARITY.
- WHERE EXISTING CONCRETE BASE IS REMOVED, REMOVE CONCRETE 1" BELOW FINISHED FLOOR AND PATCH FLOOR WITH CONCRETE REPAIR TOPPING.

DEMOLITION KEY NOTES:

- [A] REMOVE TANK, SCALE, SCALE DIGITAL DISPLAY AND ASSOCIATED APPURTENANCES. EXISTING WEIGHT INDICATOR SIGNAL CONDUIT AND WIRING TO SCP-4 AND POWER CONDUIT AND WIRING TO LP-1 SHALL REMAIN FOR REUSE WITH NEW/REUSED WEIGHT INDICATORS. SALVAGE EXISTING CHLORINE WEIGHT INDICATOR FOR USE WITH NEW CHLORINE SCALES.
- [B] REMOVE CHEMICAL FEED PUMPS, CHEMICAL FEED PUMP SKIDS, AND APPURTENANCES. CHEMICAL FEED PUMPS AND PUMP SKIDS SHALL BE TURNED OVER TO OWNER. ALL FLEXIBLE TUBING FROM PUMPS TO INJECTION POINT SHALL BE REMOVED ALONG WITH CORPORATION STOP. ASSOCIATED RECEPTACLE AND CONDUIT AND WIRING SHALL REMAIN FOR REUSE.

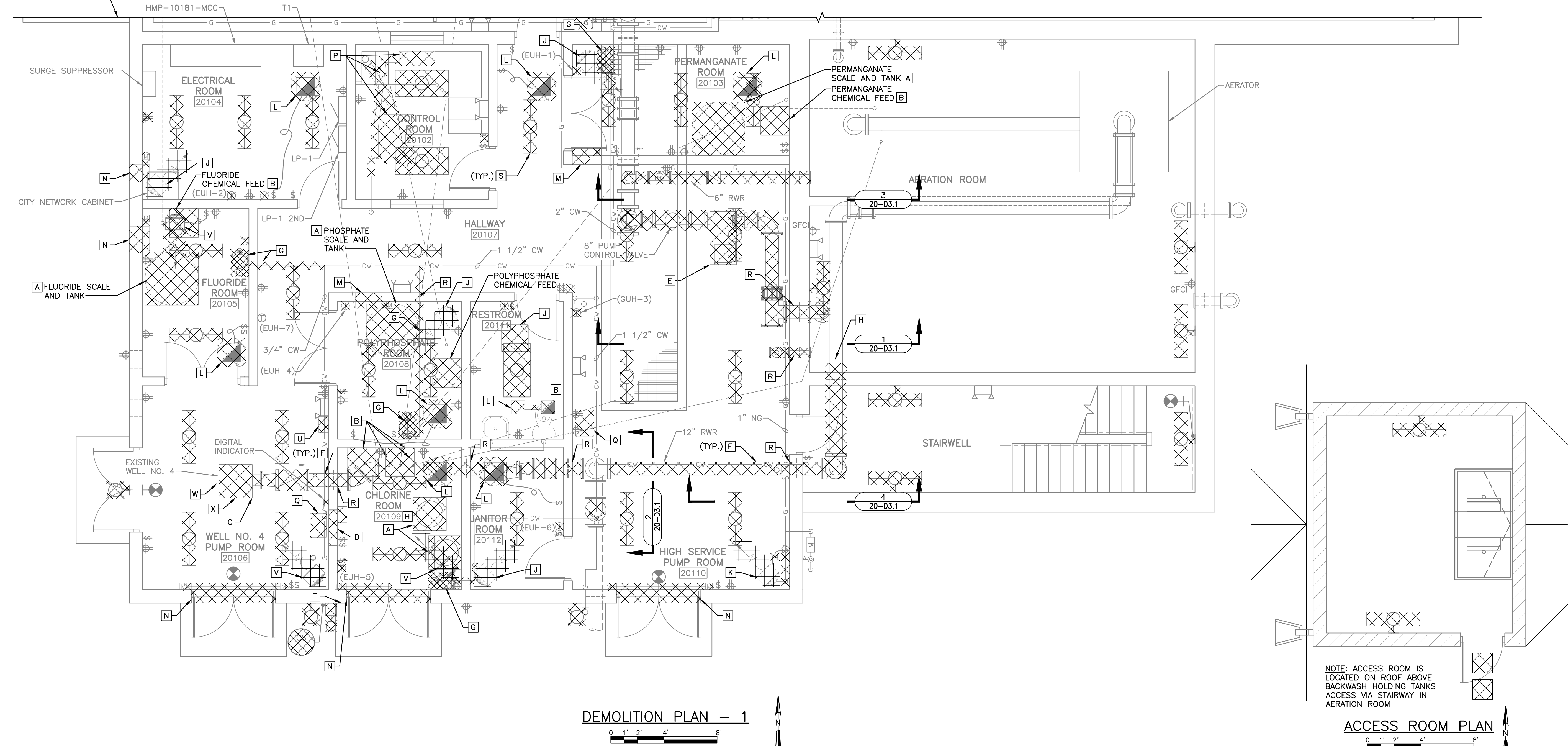
DEMOLITION KEY NOTES:

- [C] REMOVE WELL PUMP CONCRETE BASE AND INTERNAL STEEL CASING TO 1-INCH BELOW FINISHED FLOOR AND PROVIDE SMOOTH, LEVEL SURFACE IN CONCRETE SLAB. SEE GENERAL NOTE.
- [D] SAWCUT AND REMOVE PORTION OF MASONRY WALL AS REQUIRED FOR WINDOW OPENING. SEE FLOOR PLAN AND WINDOW SCHEDULE FOR NEW OPENING INFORMATION AND LOCATION.
- [E] REMOVE BOOSTER PUMP AND APPURTENANCES, BOOSTER PUMP CONCRETE BASE, AND PROVIDE SMOOTH, LEVEL SURFACE IN CONCRETE SLAB. SEE GENERAL NOTE.
- [F] REMOVE PROCESS PIPE, FITTINGS, VALVES, AND PIPE SUPPORTS.
- [G] REMOVE EMERGENCY EYE WASH STATION. REMOVE COLD WATER PIPE BACK TO MAIN AND CAP.
- [H] REMOVE PIPE BACK TO NEAREST PIPE SUPPORT.
- [J] REMOVE UNIT HEATER AND ALL ASSOCIATED CONTROLS, SUPPORTS, AND ACCESSORIES. EXISTING CONDUIT AND WIRING TO REMAIN FOR NEW UNIT HEATER AND THERMOSTAT.
- [K] REMOVE GAS UNIT HEATER AND ALL ASSOCIATED CONTROLS, SUPPORTS, AND ACCESSORIES. REMOVE NATURAL GAS PIPING TO EXTENT SHOWN ON DRAWINGS AND PREPARE FOR RECONNECTION.
- [L] REMOVE EXHAUST FAN AND ALL ASSOCIATED DUCTWORK, CONTROLS, SUPPORTS, AND ACCESSORIES. PREPARE OPENING FOR REUSE. MAINTAIN EXISTING CONDUIT AND WIRING FOR NEW EXHAUST FAN.
- [M] REMOVE DAMPER AND ACTUATOR. LOUVER AND FRAME SHALL REMAIN.
- [N] REMOVE LOUVER, DAMPER(S), AND ACTUATOR(S). PREPARE WALL OPENING FOR NEW LOUVER.

DEMOLITION KEY NOTES:

- [P] REMOVE INDOOR AND OUTDOOR SPLIT SYSTEM AND ALL ASSOCIATED DAMPERS, REFRIGERANT PIPING, CONTROLS, SUPPORTS, AND ACCESSORIES. COOLING COIL CONDENSATE DRAIN PIPING SHALL REMAIN AND BE PREPARED FOR RECONNECTION. INTERIOR DUCTWORK SHALL BE REMOVED BACK TO ROOF PENETRATION. DUCTWORK ON ROOF SHALL REMAIN.
- [Q] REMOVE DEHUMIDIFIER. COORDINATE WITH OWNER FOR SALVAGING.
- [R] PATCH PIPE PENETRATION AIRTIGHT WITH NON-SHRINK GROUT.
- [S] REMOVE EXISTING LIGHTING FIXTURES. MAINTAIN EXISTING CONDUIT, WIRING, AND SWITCHES FOR NEW FIXTURES, EXCEPT WHERE SHOWN.
- [T] REMOVE EXISTING CONTROL STATION AND ALARM LIGHT.
- [U] REMOVE EXISTING FLOW TRANSMITTER.
- [V] REMOVE EXISTING UNIT HEATER AND ALL EXISTING CONTROLS, SUPPORT AND ACCESSORIES.
- [W] CUTOFF CONDUIT 1-INCH BELOW FLOOR AND PATCH FLOOR WITH CONCRETE REPAIR TOPPING.
- [X] REMOVE EXPOSED ABANDONED CONDUIT FROM HMP-10181-MCC TO WELL PUMP. ABANDON REMAINING CONDUIT RUN IN PLACE.

SEE FLOOR
PLAN-NORTH 20-D1.2
FOR CONTINUATION



WATER TREATMENT PLANT
DEMOLITION PLAN - 1

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015

PROJECT MGR.
MIKE FORSLUND



SHEET
25
20-D1.1

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	8/27/2026

GENERAL NOTES:

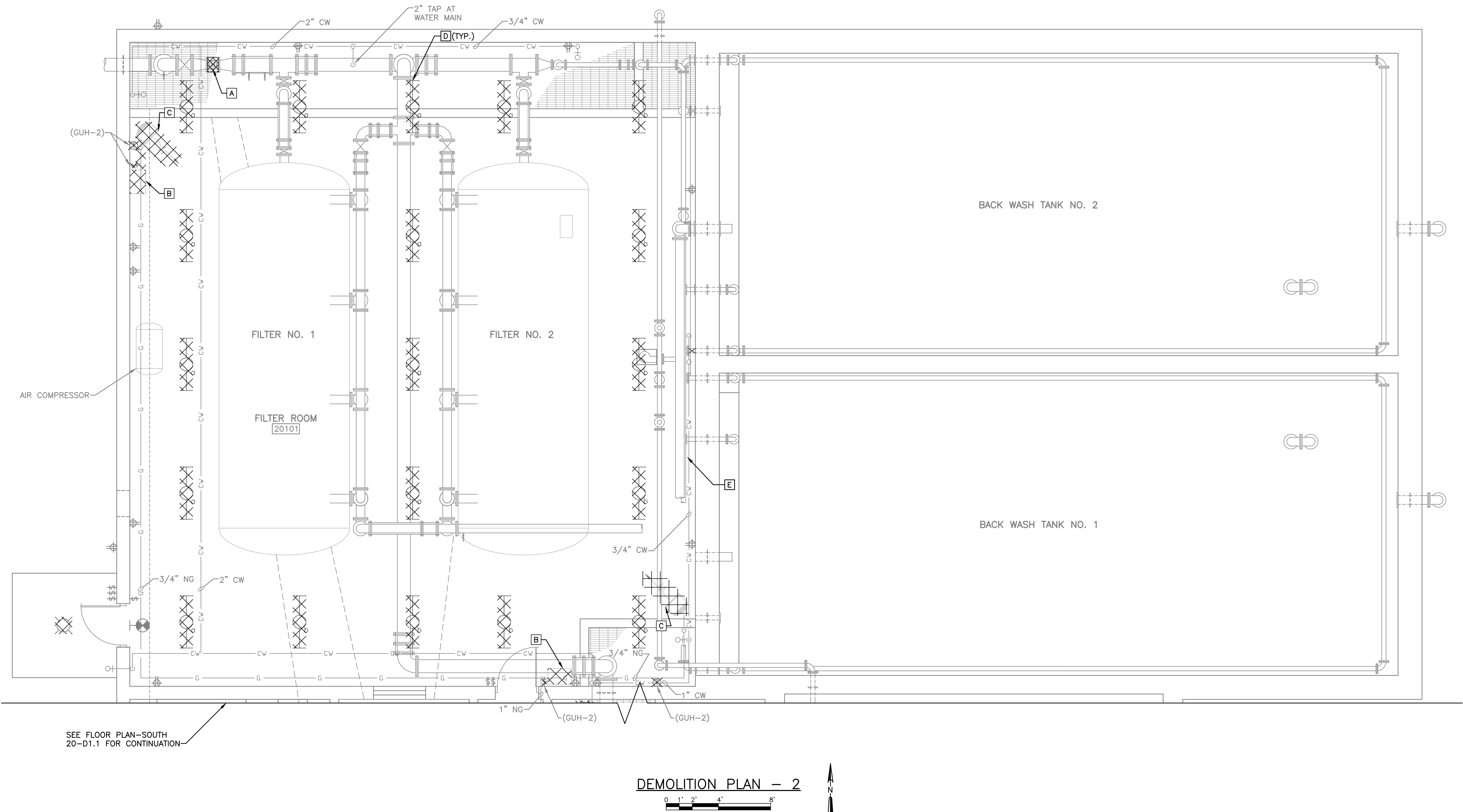
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- REFER TO SPECIFICATION SECTION 02 41 00 AND 01 11 00 FOR ADDITIONAL DEMOLITION AND CONSTRUCTION SEQUENCE INFORMATION.
- DISPOSE OF ALL MATERIALS REMOVED EXCEPT THOSE SPECIFIED TO BE SALVAGED. REFER TO SPECIFICATION SECTION 02 41 00.
- CONTRACTOR SHALL COVER AND PROTECT ALL EXISTING EQUIPMENT TO REMAIN FROM DUST AND DEBRIS DURING CONSTRUCTION.

DEMOLITION GENERAL NOTES:

- REMOVE ALL EXISTING EQUIPMENT AND MATERIALS ASSOCIATED WITH THE ITEMS BEING REMOVED AS SHOWN ON THIS DRAWING, AS WELL AS ALL EXISTING ELECTRICAL DEVICES, MATERIALS, EQUIPMENT, WIRING, AND EXPOSED CONDUITS NOT BEING REUSED. CONCEALED CONDUITS NOT BEING REUSED SHALL BE CAPPED AND ABANDONED IN PLACE.
- PATCH ALL STRUCTURE HOLES AND DEFORMATIONS RESULTING FROM DEMOLITION TO MATCH EXISTING. MOLD PATCHES TO GROUT LINES FOR REPAIRS ON BRICK AND BLOCK WALLS.
- HATCHING FOR SOME ELECTRICAL DEVICES BEING REMOVED NOT SHOWN FOR CLARITY.
- WHERE EXISTING CONCRETE BASE IS REMOVED, REMOVE CONCRETE 1" BELOW FINISHED FLOOR AND PATCH FLOOR WITH CONCRETE REPAIR TOPPING.

DEMOLITION KEY NOTES:

- [A] 8" MAGNETIC METER.
- [B] REMOVE DEHUMIDIFIER. COORDINATE WITH OWNER FOR SALVAGING.
- [C] REMOVE GAS UNIT HEATER AND ALL ASSOCIATED CONTROLS, SUPPORTS, AND ACCESSORIES. REMOVE NATURAL GAS PIPING TO EXTENT SHOWN ON DRAWINGS AND PREPARE FOR RECONNECTION.
- [D] REMOVE EXISTING LIGHTING FIXTURES. MAINTAIN EXISTING CONDUIT AND WIRING FOR NEW FIXTURES.
- [E] CLOSE EXISTING 4-INCH VALVE ON BACKWASH RECYCLE LINE. REMOVE 12-INCH LONG SECTION OF PIPE EAST OF VALVE. INSTALL PVC CAPS ON PIPE TO EAST AND WEST OF REMOVED SECTION.



WATER TREATMENT PLANT
DEMOLITION PLAN - 2

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015

PROJECT MGR.
MIKE FORSLUND



SHEET
26
20-D1.2

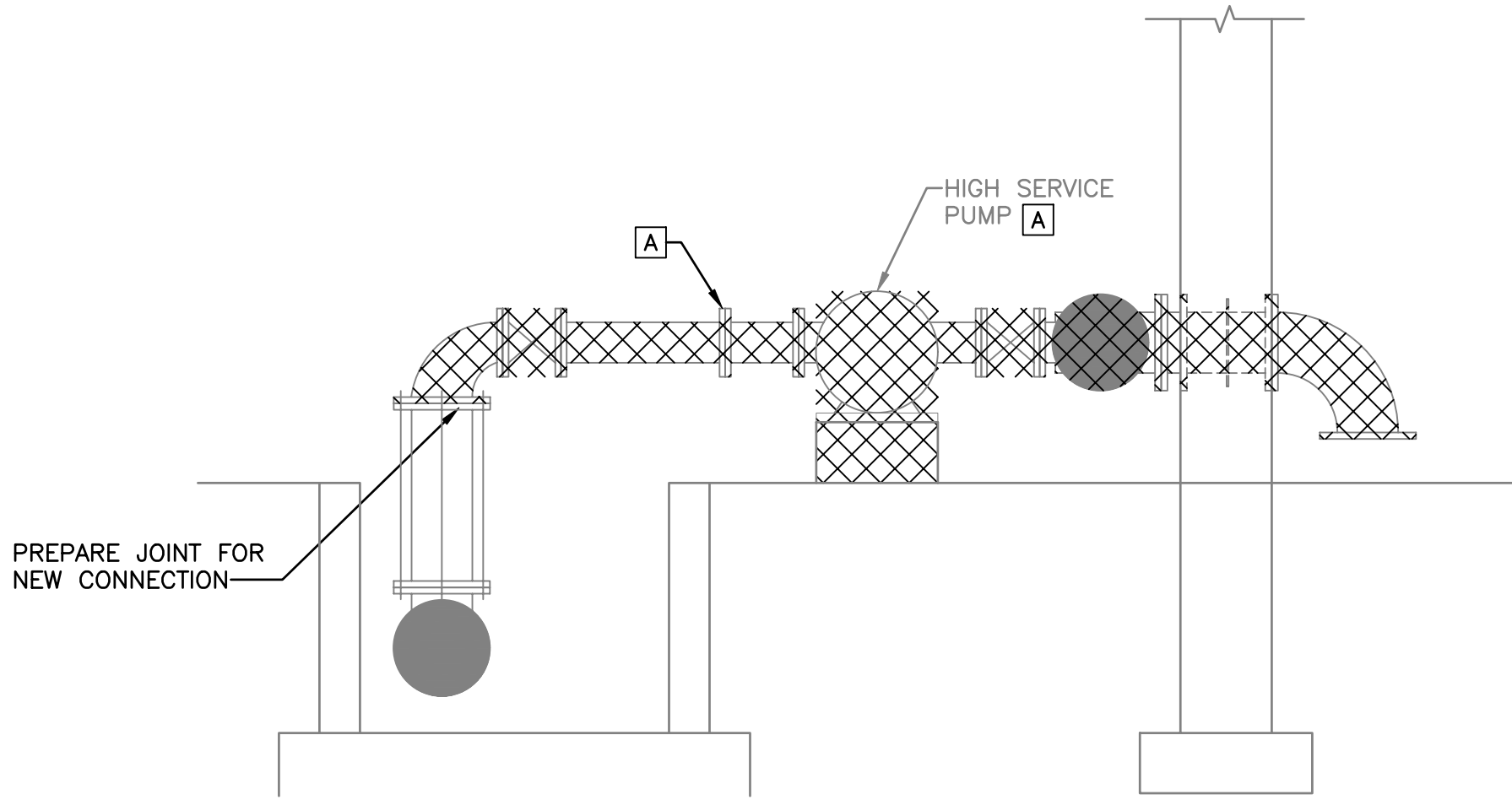
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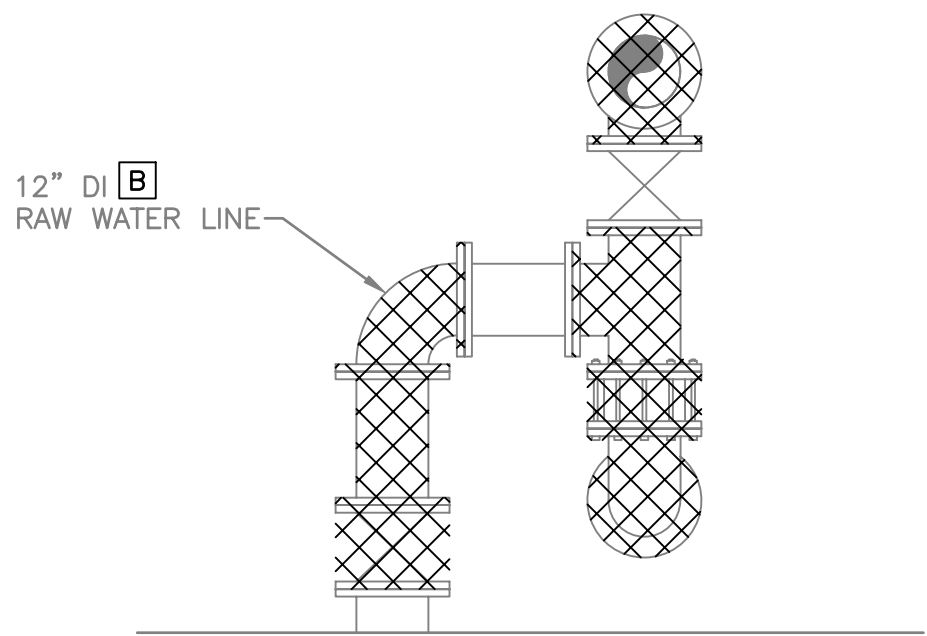
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20-D1.3

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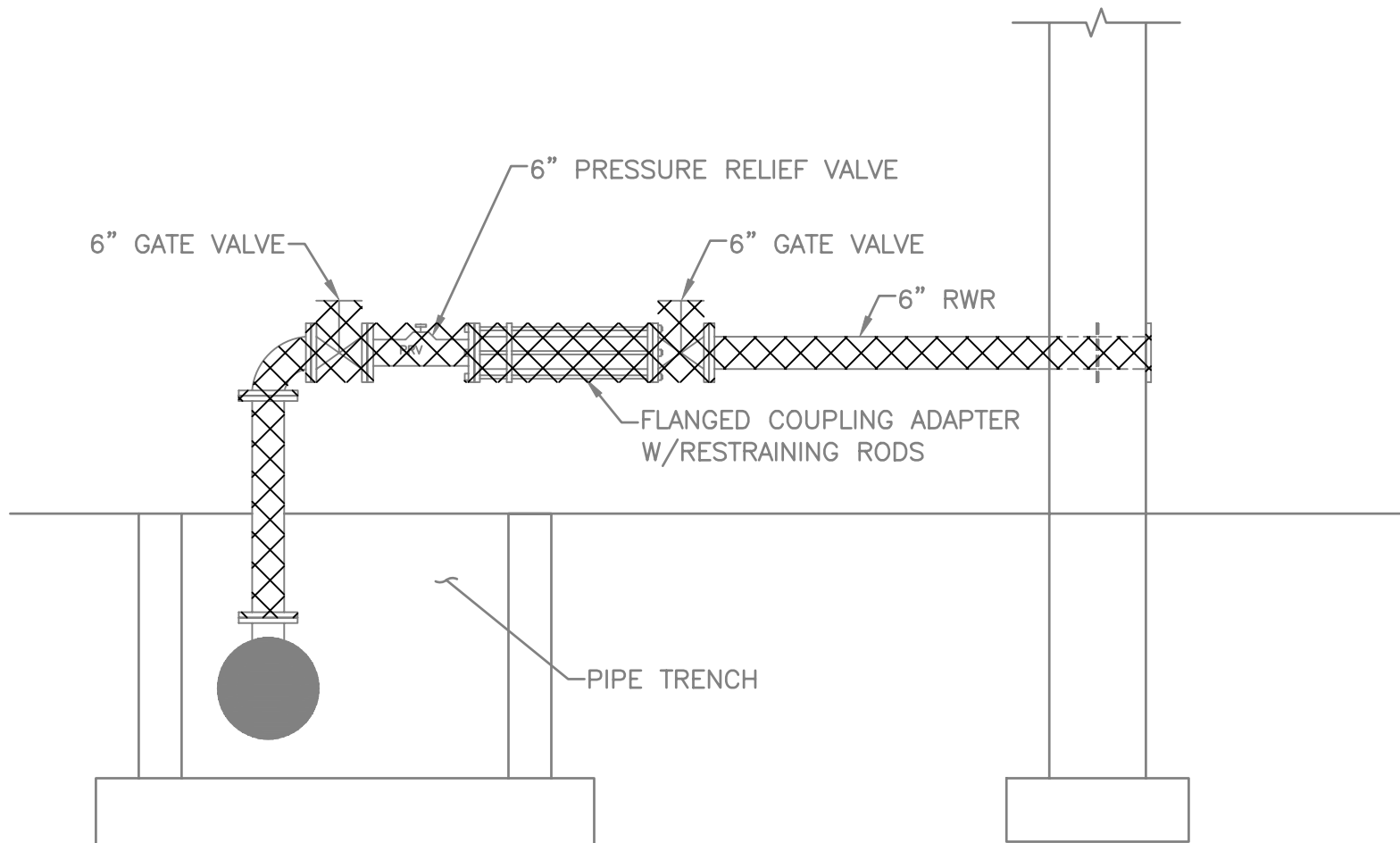
- A** REMOVE WALKWAY PAVERS.
- B** REMOVE AND SALVAGE DOWNSPOUT SPLASH PADS FOR REINSTALLATION.
- C** REMOVE ROOF CURB ASSOCIATED WITH EXHAUST FAN. PREPARE ROOF OPENING FOR REUSE.
- D** CORE HOLE IN PRECAST ROOF PLANK FOR NEW HVAC OPENING.
- E** REMOVE EXISTING ROOF SYSTEM.
- F** EXISTING PITCHED METAL ROOF ABOVE AREA SHALL REMAIN.
- G** REMOVE ROOF DRAIN AND PREPARE PIPE FOR NEW DRAIN.



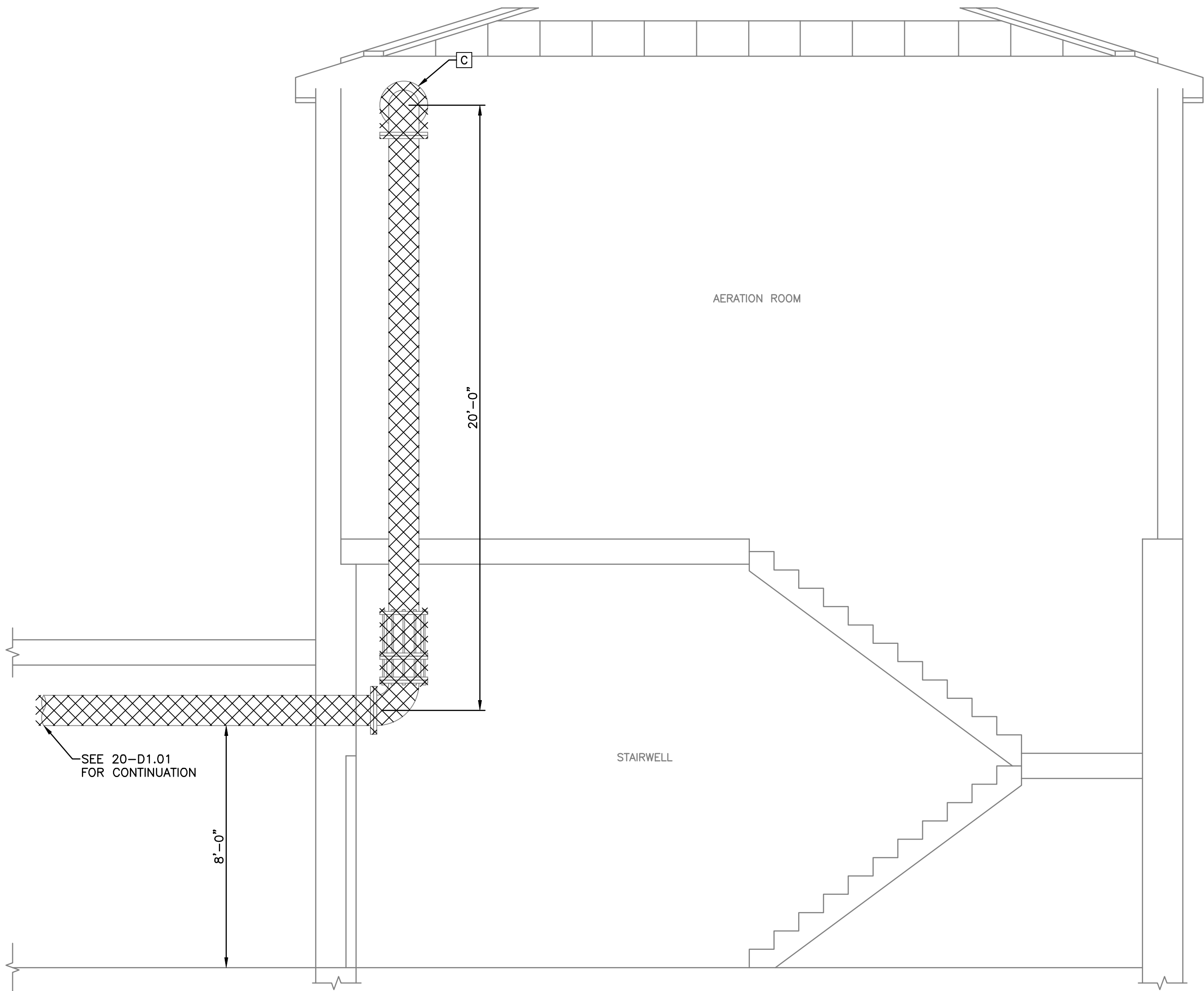
SECTION 1
NO SCALE 20-D3.1



SECTION 2
NO SCALE 20-D3.1



SECTION 3
NO SCALE 20-D3.1



SECTION 4
NO SCALE 20-D3.1

- GENERAL DEMOLITION NOTES:
- EXISTING INFORMATION SHOWN ON DRAWINGS IS BASED ON RECORD DRAWINGS OF THE STRUCTURES PROVIDED BY OWNER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING INFORMATION AS REQUIRED FOR BIDDING AND CONSTRUCTION.
 - REFER TO SPECIFICATION SECTION 02 41 00 AND 01 11 00 FOR ADDITIONAL DEMOLITION AND CONSTRUCTION SEQUENCE INFORMATION.
 - DISPOSE OF ALL MATERIALS REMOVED EXCEPT THOSE SPECIFIED TO BE SALVAGED. REFER TO SPECIFICATION SECTION 02 41 00.
 - CONTRACTOR SHALL COVER AND PROTECT ALL EXISTING EQUIPMENT TO REMAIN FROM DUST AND DEBRIS DURING CONSTRUCTION.

- DEMOLITION KEY NOTES:
- [A] REMOVE EXISTING DISCHARGE PIPING AND HIGH SERVICE PUMP. HIGH SERVICE PUMP CONCRETE BASE SHALL BE REMOVED TO +/- 1-INCH BELOW FLOOR SURFACE ON NEAT, PARALLEL LINES AND PATCH FLOOR WITH FLOOR REPAIR TOPPING TO MATCH ADJACENT FLOOR.
 - [B] 12" DUCTILE IRON RAW WATER LINE FITTINGS MAY BE REUSED AT CONTRACTORS OPTION. REUSED FITTINGS SHALL BE SURFACE PREPARED AND PAINTED PER SPECIFICATIONS.
 - [C] REMOVE PIPE ROUTED ALONG AERATION ROOM CEILING TO NEAREST FLOOR PIPE SUPPORT.

WATER TREATMENT PLANT
DEMOLITION SECTIONS

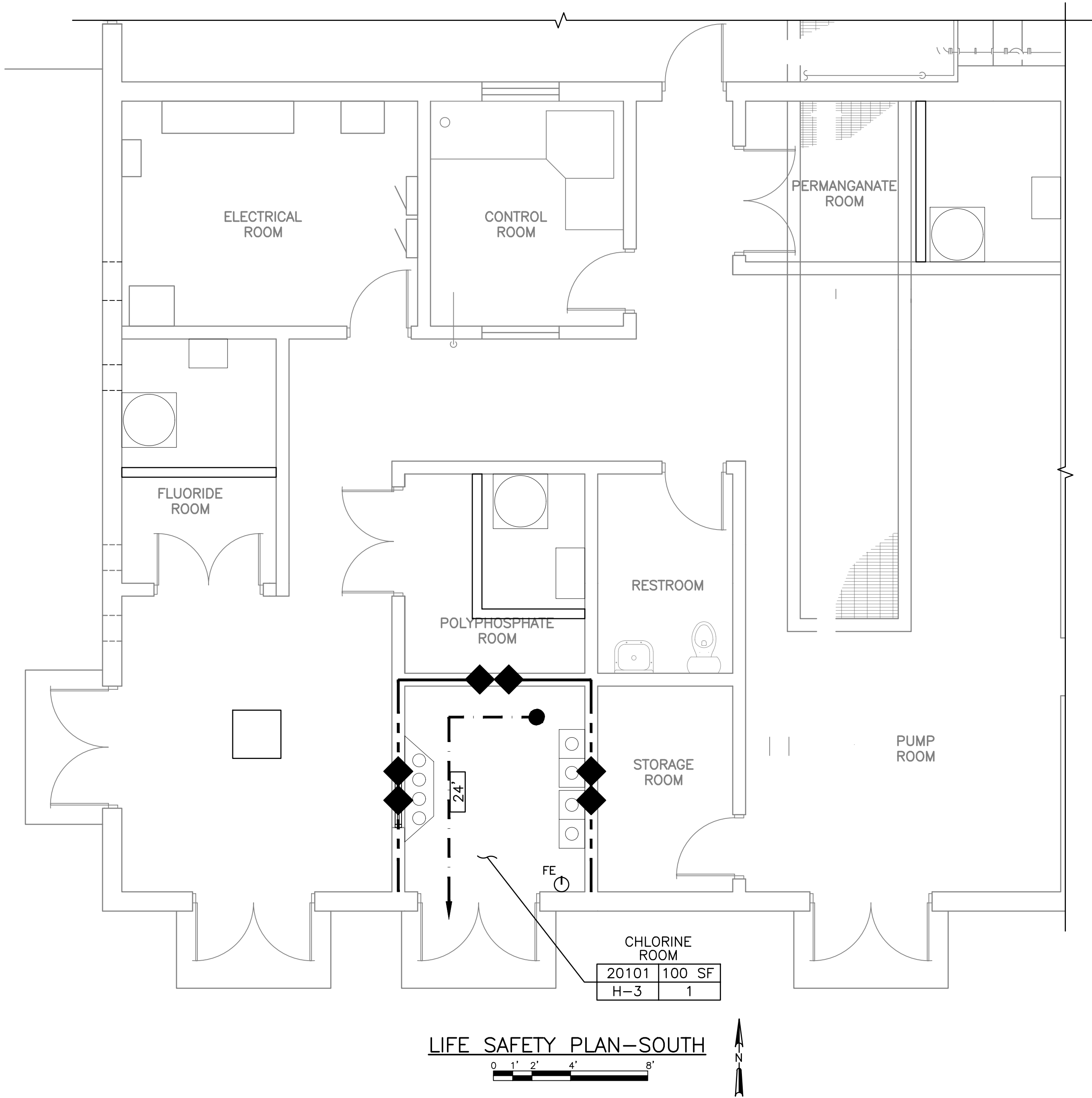
WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015

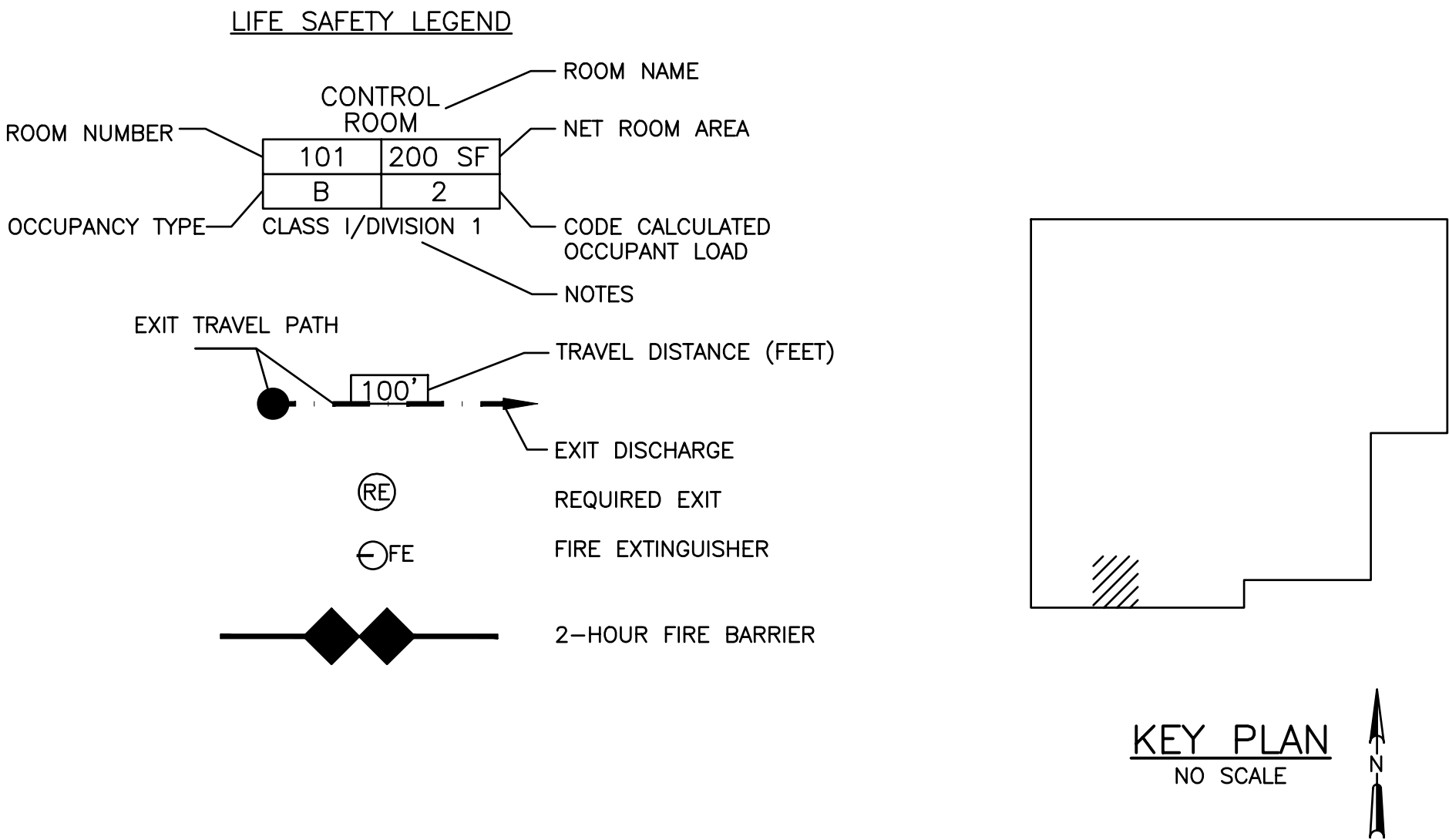
PROJECT MGR.
MIKE FORSLUND



SHEET
28
20-D3.1



STRUCTURE 20 BUILDING CODE INFORMATION			
BUILDING CODE	2021 INTERNATIONAL BUILDING CODE (SPS 362)		
	2021 INTERNATIONAL EXISTING BUILDING CODE (SPS 366)		
	2021 INTERNATIONAL MECHANICAL CODE (SPS 364)		
	2021 INTERNATIONAL FIRE CODE		
	2021 INTERNATIONAL FUEL GAS CODE (SPS 365)		
	2021 INTERNATIONAL ENERGY CONSERVATION CODE (SPS 363)		
	2017 NATIONAL ELECTRICAL CODE (SPS 316)		
	WISCONSIN PLUMBING CODE (SPS 382)		
SCOPE OF WORK:			
CHANGE OF OCCUPANCY OF EXISTING CHLORINE ROOM TO H-3 OCCUPANCY DUE TO CHEMICAL CHANGE FROM LIQUID CHLORINE TO CHLORINE GAS. EXISTING ROOF WILL BE REPLACED WITH NEW SINGLE PLY FULLY ADHERED ROOF SYSTEM. SCOPE OF WORK ALSO INCLUDES CHEMICAL TANK AND EQUIPMENT REPLACEMENT ONLY (LEVEL 1 ALTERATION) IN POLYPHOSPHATE ROOM, FLUORIDE ROOM, AND SODIUM PERMANGANATE ROOM. EXISTING POLYPHOSPHATE, FLUORIDE, AND SODIUM PERMANGANATE CHEMICALS AND CHEMICAL QUANTITIES WILL NOT CHANGE AS PART OF PROJECT.			
OCCUPANCY TYPE	NON-SEPARATED USE		
USE GROUPS	GROUP F-1: MODERATE-HAZARD FACTORY INDUSTRIAL		
	GROUP H-3: HIGH-HAZARD GROUP		
	GROUP H-4: HIGH-HAZARD GROUP (EXISTING)		
OCCUPANCY TYPE	II-B		
HAZARDOUS MATERIALS:	PRESENT		
CHEMICAL	CHEMICAL CLASSIFICATION	MAX. CONTROL AREA QUANTITY ^a	ACTUAL QUANTITY ^a
CHLORINE GAS	OXIDIZER GAS, TOXIC (H-3)	1,500 CU. FT. (150 LBS)	1,200 LBS
ORTHOPOLYPHOSPHATE ^c	CORROSIVE	NOT APPLICABLE ^c	350 GALLONS ^c
FLUOROSILICIC ACID ^c	CORROSIVE	NOT APPLICABLE ^c	350 GALLONS ^c
SODIUM PERMANGANATE ^c	CORROSIVE, OXIDIZER CLASS 2	NOT APPLICABLE ^c	200 GALLONS ^c
NOTES:			
a. ACTUAL QUANTITY IS FOR COMBINED STORAGE AND CLOSED SYSTEMS USE.			
b. CONTROL AREA QUANTITY PER TABLE 307.1(1) / 307.1(2).			
c. CHEMICAL LISTED IS EXISTING AND CHEMICAL QUANTITIES WILL NOT CHANGE AS PART OF PROJECT SCOPE.			
OCCUPANCY SEPARATION		FIRE RATING	
F-1: H-3		2-HOUR	
GENERAL BUILDING INFORMATION			
ALLOWABLE		ACTUAL	
NO. OF STORIES	2 STORIES	2 STORIES	
HEIGHT	55'-0" FEET	12'-0" (LOW ROOF), 20'-0" (HIGH ROOF)	
PROJECT AREA (ALTERATION)			
H-3 (FIRST FLOOR): 100 SF			
TOTAL ALLOWABLE AREA PER FLOOR LEVEL	14,000 SF	TOTAL ACTUAL AREA (GROSS SF)	9,828 SF ¹
PUBLIC WAYS OR YARDS	ACCESSIBLE FROM 4 SIDES, MIN. 30-FOOT ACCESS WIDTH		
FIRE SUPPRESSION SYSTEM			
AUTOMATIC FIRE SUPPRESSION SYSTEM (NFPA 13) - H-3 OCCUPANCY (CHLORINE ROOM) ONLY.			
PORTABLE FIRE EXTINGUISHERS, RATED CLASS A, B, C; 10-POUND CAPACITY.			
NUMBER OF OCCUPANTS			
OCCUPANT LOAD FACTOR	INDUSTRIAL AREAS: 100 GROSS		
OCCUPANT CALCULATION - SEE PLANS			
ACTUAL NUMBER OF OCCUPANTS	ZERO PERMANENT OCCUPANTS. ONLY PRESENT DURING MAINTENANCE AND OPERATION.		
EXIT ACCESS TRAVEL DISTANCE		EXIT ACCESS	COMMON PATH
F-1		200 FEET	75 FEET
H-3 (SPRINKLERED)		150 FEET	25 FEET
EXITS:			
ALL SPACES/OCCUPANCIES REQUIRE 1 EXIT.			
NOTES:			
1. SCOPE OF WORK DOES NOT INCREASE OVERALL BUILDING AREA OR HEIGHT.			



WATER TREATMENT PLANT
LIFE SAFETY PLAN AND CODE SUMMARY

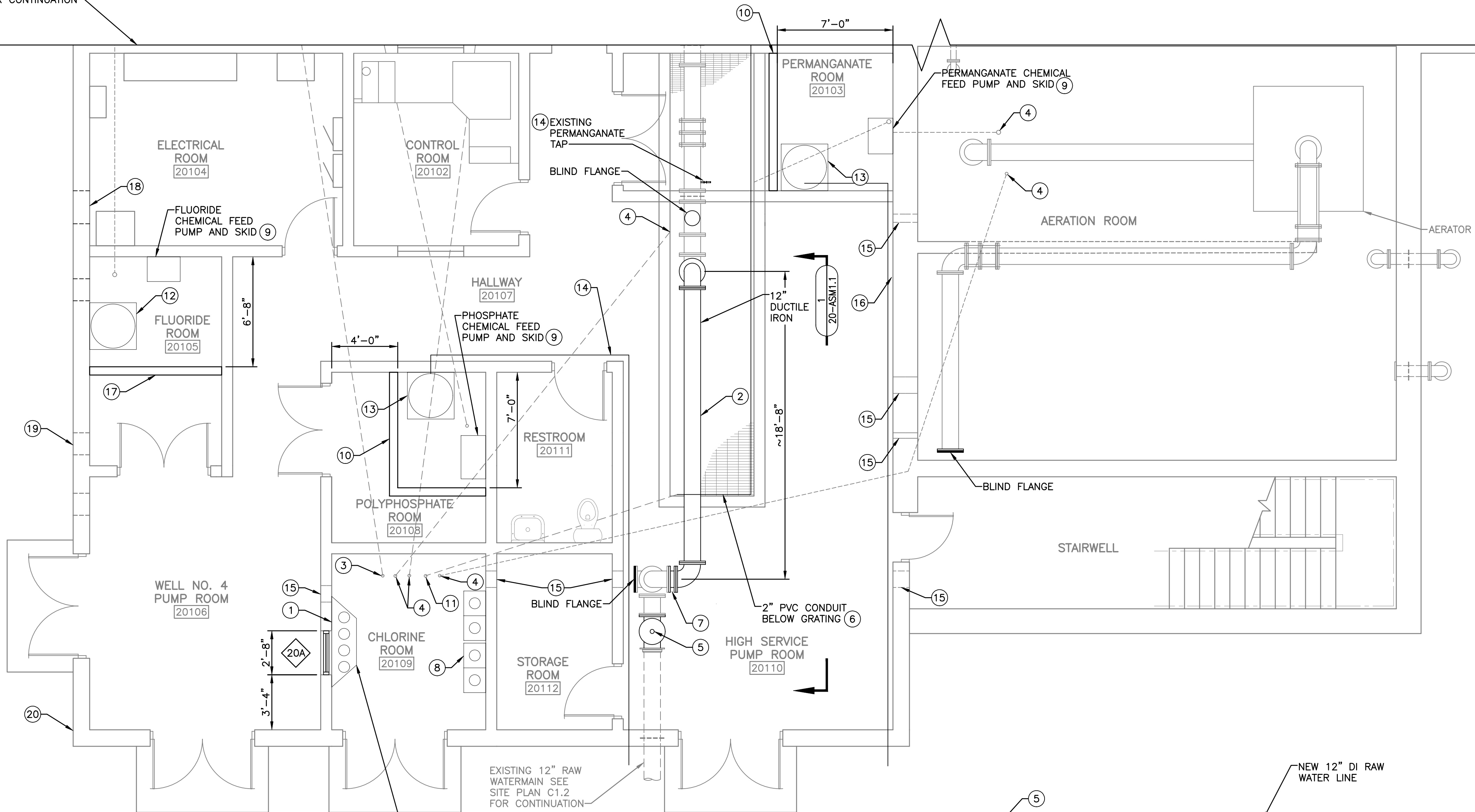
WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015

PROJECT MGR.
MIKE FORSLUND

SHEET
29
20-ASM1.0

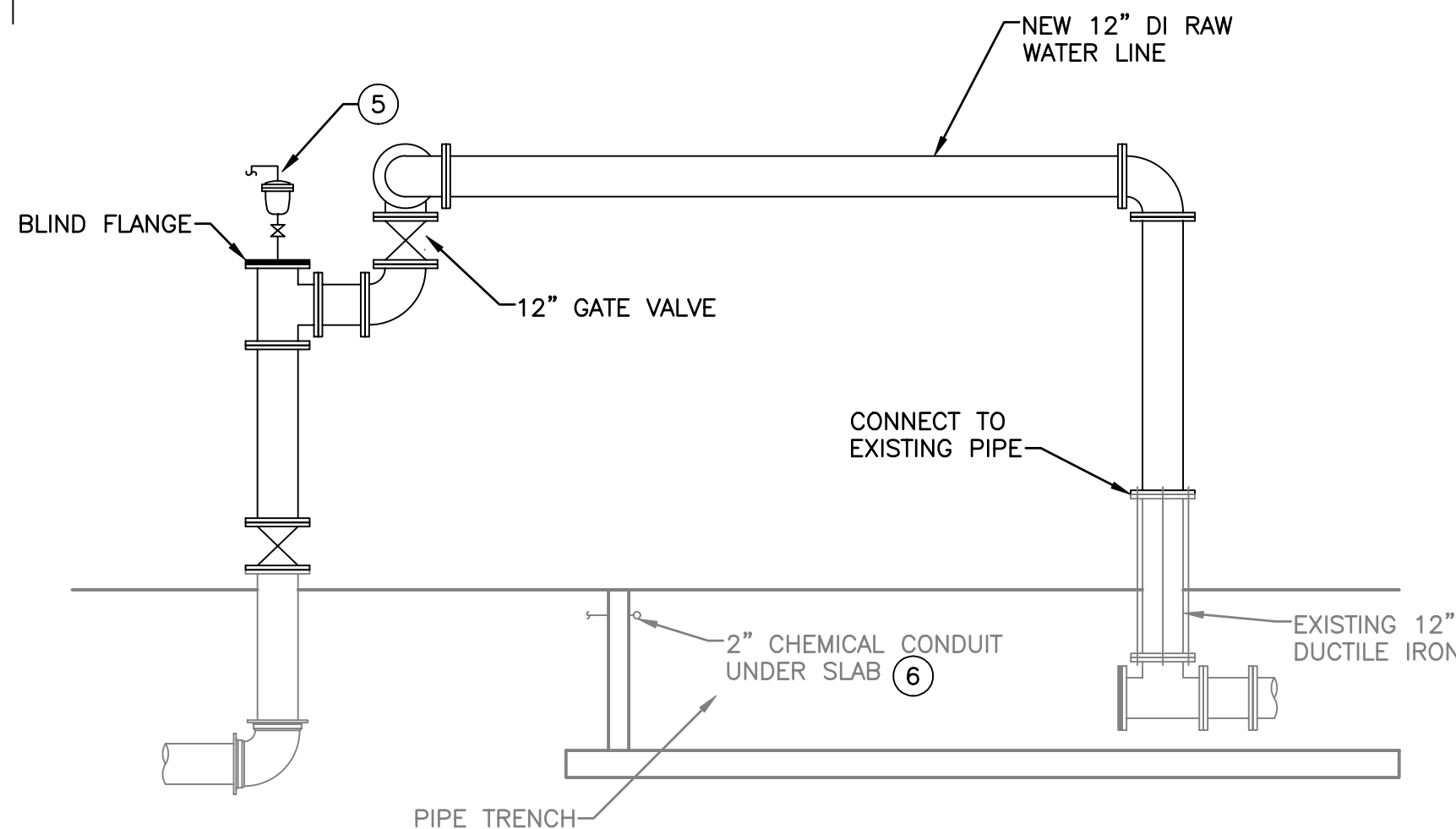
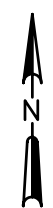
SEE FLOOR PLAN-NORTH
20-ASM1.2 FOR CONTINUATION



CHLORINATION SCHEMATIC
A
20-M3.1

FLOOR PLAN-SOUTH

0 1' 2' 4' 8'



SECTION 1
NO SCALE 20-ASM1.1

GENERAL NOTES:

- EXISTING INFORMATION SHOWN ON DRAWINGS IS BASED ON RECORD DRAWINGS OF THE STRUCTURES PROVIDED BY OWNER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING INFORMATION AS REQUIRED FOR BIDDING AND CONSTRUCTION.
- REFER TO DRAWING 99-ASM6.2 FOR GENERAL STRUCTURAL/ARCHITECTURAL NOTES.

KEY NOTES:

- CYLINDER STORAGE WITH CHAINS.
- NEW OVERHEAD RAW WATER PIPING TO BE SUPPORTED FROM CEILING WHERE NECESSARY.
- ROUTE CHLORINE POST-FILTRATION VACUUM TUBING THROUGH UNDERGROUND 2-INCH PVC CARRIER PIPE. VACUUM TUBING TO BE SIZED BY MANUFACTURER.
- CAP AND SEAL CHEMICAL CARRIER CONDUITS AT EACH END FOR FUTURE USE.
- 2" COMBINATION AND AIR RELEASE VACUUM RELIEF VALVE. DISCHARGE PIPE SHALL BE ROUTED ALONG PUMP ROOM WALL AND ABOVE DOOR AND AND DISCHARGE OUTSIDE BETWEEN 12" AND 24" ABOVE GRADE. VENT PIPE SHALL NOT DISCHARGE ON SIDEWALK. VENT SURGE PIPE SHALL BE STAINLESS STEEL.
- REMOVE EXISTING PVC PIPE AND PROVIDE NEW 2-INCH SCHEDULE 80 PVC CARRIER PIPE BELOW GRATING IN TRENCH FOR CHLORINE GAS VACUUM TUBING.
- PROVIDE SPOOL PIECE/FLANGE FILLER AS REQUIRED TO CONNECT THE NEW RAW WATER LINE TO EXISTING.
- CHLORINE GAS SCALES AND CYLINDERS.
- WALL MOUNTED SKID PER 99-ASM5.2. RELOCATE CONDUIT ALONG WALL AS NECESSARY TO ACCOMMODATE SKID. PROVIDE NEW TUBING AS SPECIFIED TO INJECTION POINT.
- MINIMUM 5" HIGH X 6" WIDE CONCRETE CURB FOR CHEMICAL CONTAINMENT BASIN. PROVIDE 1~#5 CONT. W/CORNER BARS. PROVIDE CHEMICAL RESISTANT COATING TYPE 1 ON BOTTOM OF BASIN AND INSIDE FACES OF CURB AND 5" UP CMU WALL PER DIVISION 09.
- ROUTE CHLORINE PRE-FILTRATION VACUUM TUBING THROUGH 2-INCH UNDERGROUND PVC CARRIER PIPE. VACUUM TUBING TO BE SIZED BY MANUFACTURER.
- PROVIDE DAY TANK AND SCALE AS SPECIFIED. PROVIDE NEW VENT PIPING AND FITTINGS TO MATCH EXISTING FROM CHEMICAL DAY TANK FAN TO DAY TANK.
- PROVIDE DAY TANK AND SCALE AS SPECIFIED.
- REUSE EXISTING PERMANGANATE TAP BELOW GRATING IN TRENCH. PROVIDE NEW CORPORATION STOP, TUBING, AND CARRIER PIPE PER 20-ASM5.1.
- INFILL CONCRETE WALL OPENINGS WITH 4000 PSI CONCRETE WITH PATCHING ADDITIVE. PROVIDE CMU BLOCK AT CMU WALL OPENING, TOOTHED INTO WALL TO MATCH EXISTING.
- 3/4-INCH PVC VENT LINE TO BUILDING EXTERIOR. TERMINATE IN SCREENED DOWN TURNED ELBOW. 9 FEET AFF.
- MINIMUM 5" HIGH X 6" WIDE CONCRETE CURB FOR CHEMICAL CONTAINMENT BASIN. PROVIDE 1~#5 CONT. W/CORNER BARS. PROVIDE CHEMICAL RESISTANT COATING TYPE 2 ON BOTTOM OF BASIN, INSIDE FACES OF CURB AND 5" UP CMU WALL PER DIVISION 09.
- PROVIDE LINTEL ABOVE HVAC OPENING IN MASONRY WALL. SEE LINTEL SCHEDULE ON DRAWING 99-ASM6.2. SEE DRAWING 10-H1.01 FOR LOCATION.
- INFILL MASONRY WALL TO MATCH EXISTING AS REQUIRED AT EXISTING LOUVER OPENING.
- REPAIR LOCAL AREA OF CRACKED MASONRY PER SPECIFICATION DIVISION 04.

WATER TREATMENT PLANT FLOOR PLAN - SOUTH

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015

PROJECT MGR.
MIKE FORSLUND

SA
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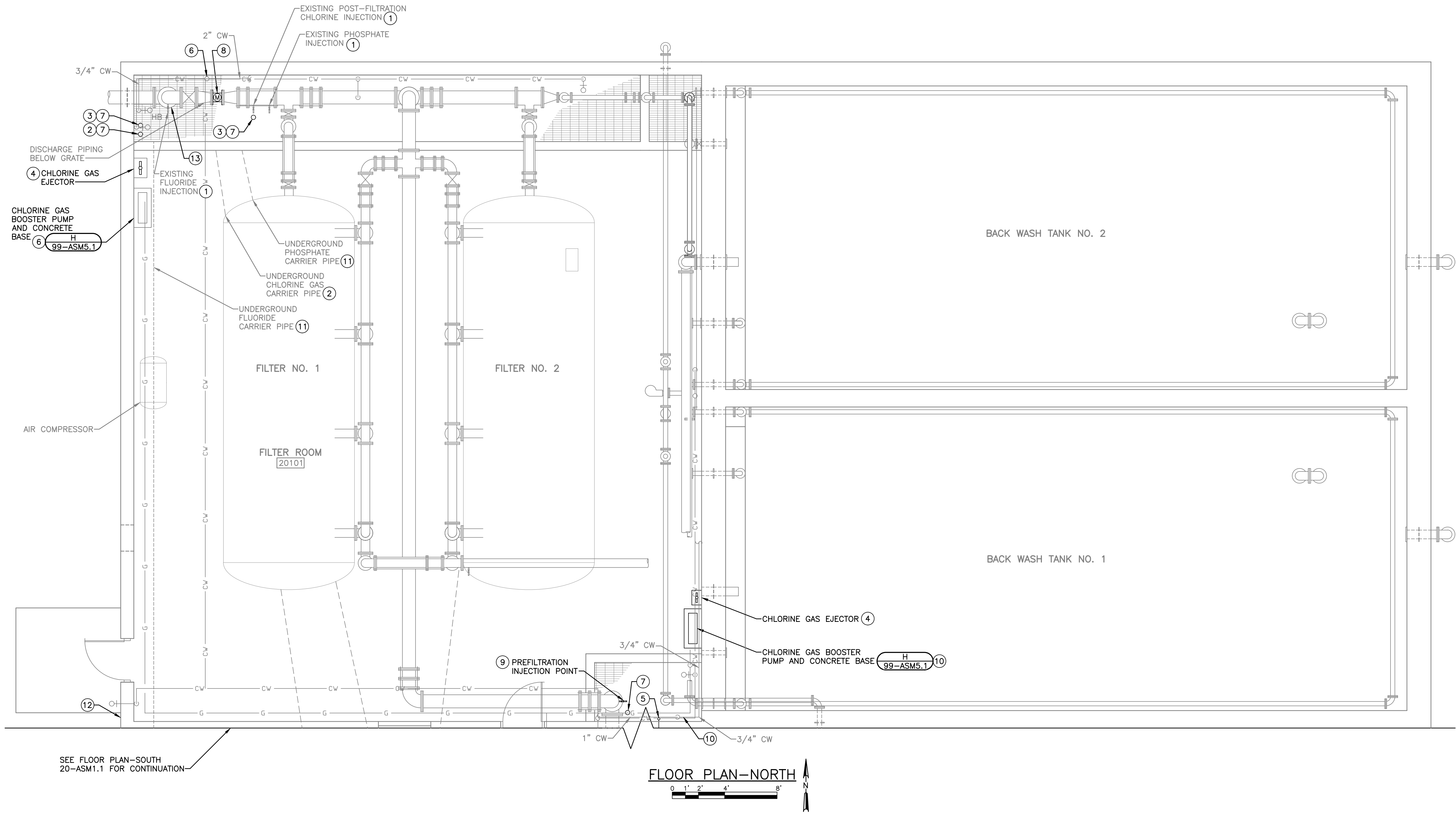
SHEET
30
20-ASM1.1

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	8/27/2026

- GENERAL NOTES:
1. REFER TO DRAWING 20-ASM1.01 FOR GENERAL NOTES.

- KEY NOTES:
- ① DISCONNECT THE EXISTING POLYPHOSPHATE FEED TAP. REMOVE CORPORATION STOP AND INSTALL THREADED PLUG. INSTALL A NEW TAP WHERE SHOWN AND ROUTE FEED PIPING TO NEW TAP. PROVIDE NEW CORPORATION STOP PER 99-ASM5.2.
- ② ROUTE POST FILTRATION VACUUM TUBING THROUGH 2-INCH SCHEDULE 80 PVC CARRIER PIPE BELOW GRADE IN TRENCH AND TO EJECTOR. VACUUM TUBING TO BE SIZED BY MANUFACTURER.
- ③ ROUTE 3/4" SCHEDULE 80 PVC CHLORINE SOLUTION PIPING BELOW GRADE IN TRENCH AND TO EXISTING CHLORINE INJECTION POINT.
- ④ WALL MOUNT EJECTOR. EJECTOR SHALL BE LOCATED OUTSIDE PIPE TRENCH FOOTPRINT.
- ⑤ REMOVE EXISTING PVC PIPE AND PROVIDE NEW 2" SCHEDULE 80 PVC CARRIER PIPE BELOW GRADE IN TRENCH FOR NEW CHLORINE GAS VACUUM TUBING. VACUUM TUBING TO BE SIZED BY MANUFACTURER.
- ⑥ EXTEND 2" COLDWATER LINE FROM TEE TO CHLORINE GAS BOOSTER PUMP. REMOVE 3/4" COLDWATER LINE BETWEEN CHLORINE GAS BOOSTER PUMP AND TEE AND REPLACE WITH 2" COLDWATER LINE AS SPECIFIED. PROVIDE 2" RPZ VALVE AS SHOWN ON SHEET 20-M3.1.

- KEY NOTES CONTINUED:
- ⑦ CUT AND BAND NEW OPENINGS IN EXISTING GRATE.
- ⑧ CONTRACTOR SHALL INSTALL OWNER FURNISHED 8" MAGNETIC FLOW METER.
- ⑨ PROVIDE PRE-FILTRATION CHLORINATION INJECTION TAP AND CORPORATION STOP PER 99-ASM5.2. TAP SHALL BE BETWEEN 12" AND 24" ABOVE FINISHED FLOOR.
- ⑩ EXTEND COLDWATER LINE WITH 1" PIPE AS SPECIFIED TO CHLORINE GAS BOOSTER PUMP. REMOVE 3/4" COLDWATER LINE BACK TO 1" LINE AND PROVIDE NEW 1" COLD WATER PIPE AS SPECIFIED. PROVIDE 1" RPZ VALVE AS SHOWN ON SHEET 20-M3.1.
- ⑪ PROVIDE NEW TUBING THROUGH 2-INCH SCHEDULE 80 PVC CARRIER PIPE TO INJECTION POINT.
- ⑫ REPAIR LOCAL AREA OF CRACKED MASONRY PER SPECIFICATION DIVISION 04.
- ⑬ INSTALL NEW POLYPHOSPHATE FEED TAP IN VERTICAL SECTION OF PIPE IN TRENCH.



WATER TREATMENT PLANT
FLOOR PLAN - NORTH

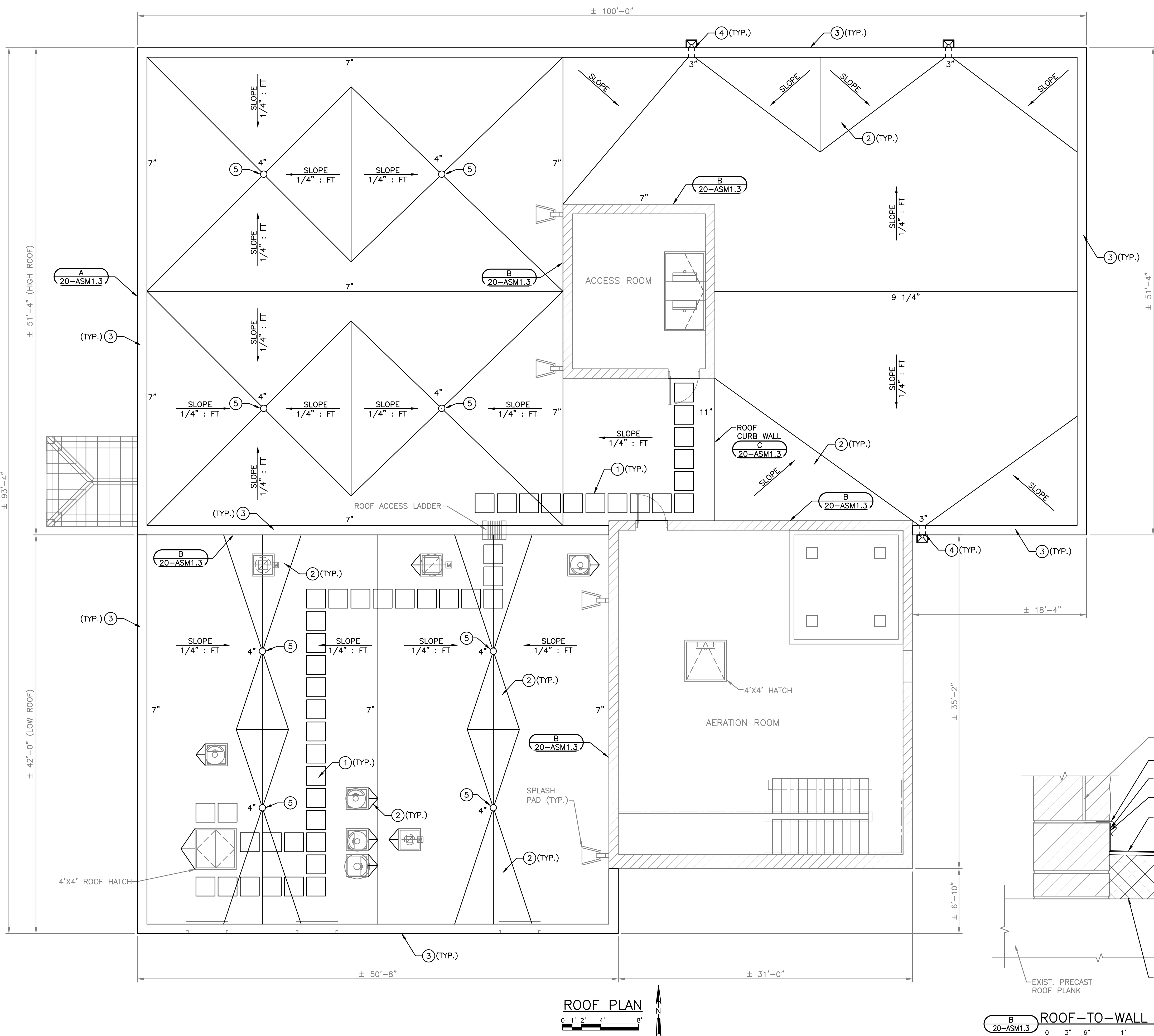
WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015

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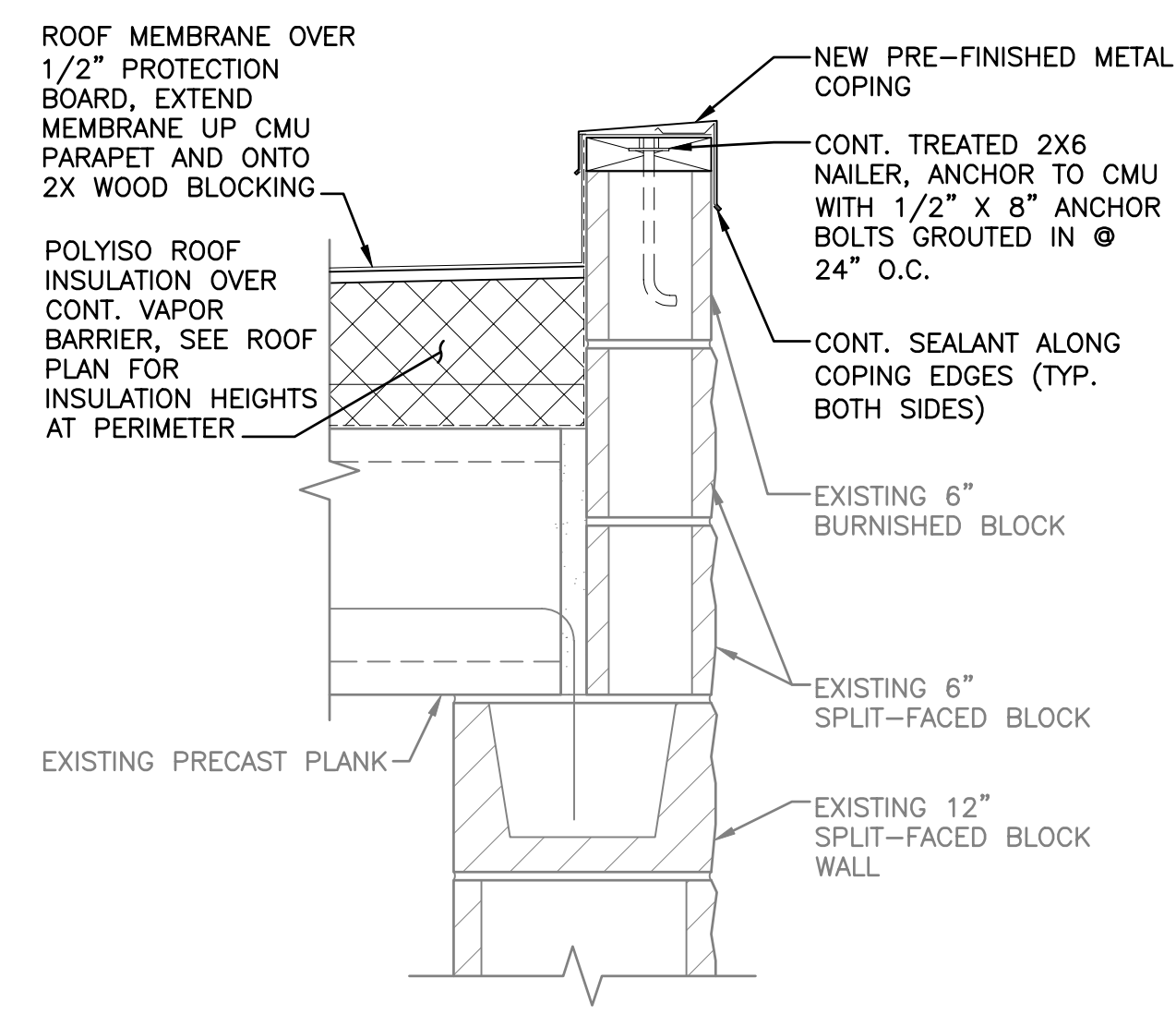


SHEET
31
20-ASM1.2

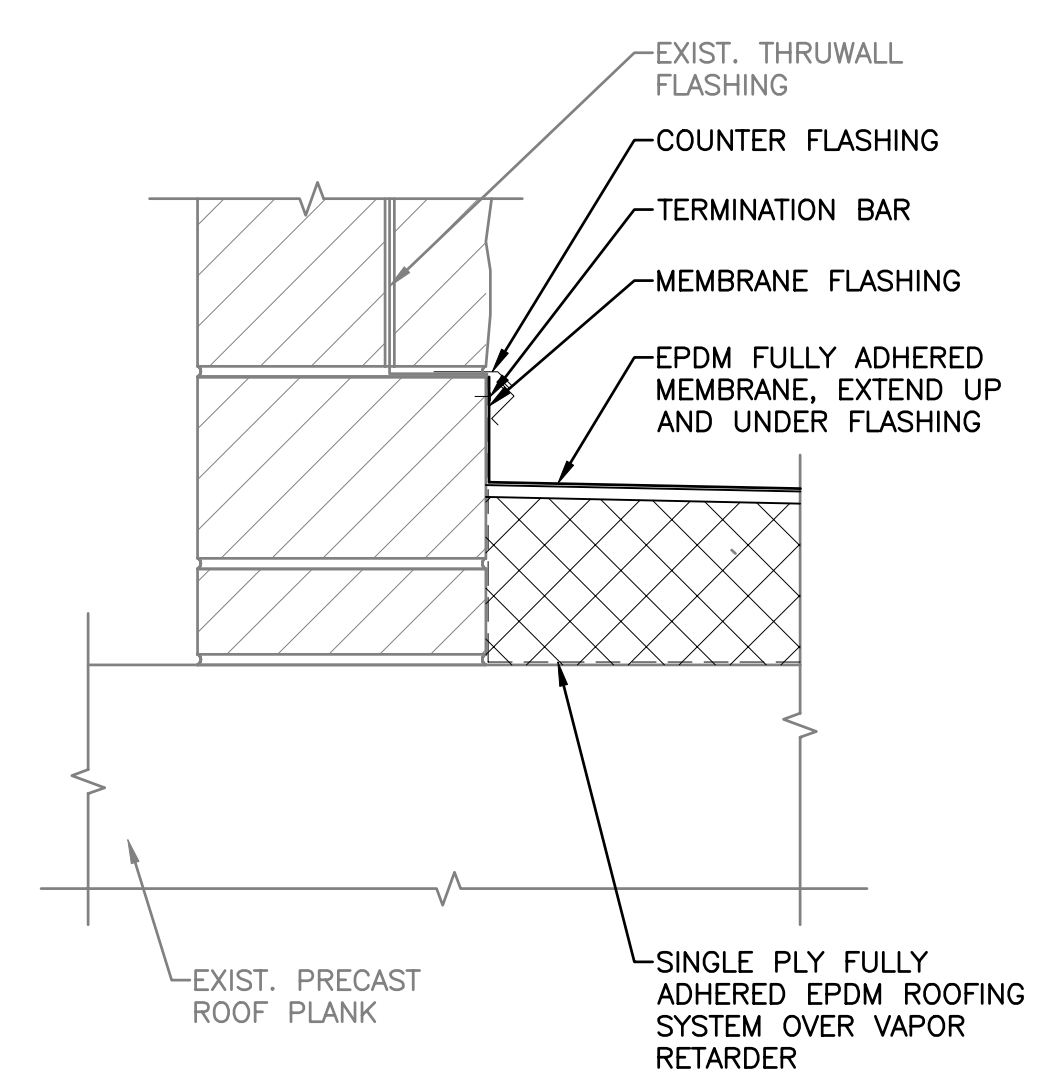


- GENERAL NOTES:**
- NEW ROOF CONSTRUCTION CONSISTS OF SINGLE-PLY FULLY ADHERED EPDM ROOF MEMBRANE OVER 1/2" PROTECTION BOARD OVER TAPERED POLYISOCYANURATE ROOF INSULATION OVER VAPOR RETARDER. ROOF INSULATION SHALL BE SLOPED 1/4" PER FOOT UNLESS NOTED OTHERWISE.
 - ROOF INSULATION THICKNESS AT ROOF DRAINS SHALL BE 4" MINIMUM AND 7" AT ROOF HIGH POINTS, UNLESS NOTED OTHERWISE. AVERAGE ROOF SYSTEM R-VALUE SHALL BE R-30 MINIMUM.
 - EXISTING INFORMATION SHOWN ON DRAWINGS IS BASED ON RECORD DRAWINGS OF THE STRUCTURES PROVIDED BY OWNER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING INFORMATION AND DIMENSIONS AS REQUIRED FOR BIDDING AND CONSTRUCTION.

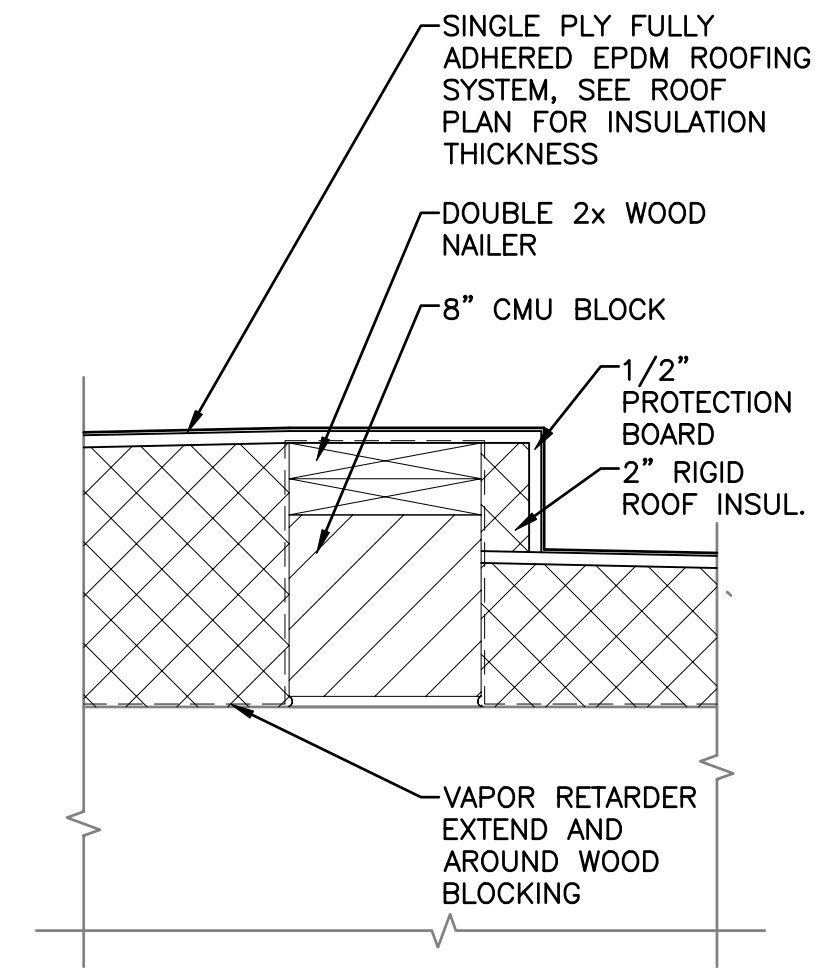
- KEY NOTES:**
- ROOF WALKWAY PADS.
 - INSULATION CRICKET, SLOPE 1/2" PER FOOT MINIMUM.
 - NEW PRE-FINISHED METAL COPING AROUND PERIMETER OF BUILDING.
 - SCUPPER (C 99-ASM5.2). PROVIDE CONDUCTOR HEAD AND DOWNSPOUT DOWN TO SPLASH PAD.
 - PROVIDE NEW ROOF DRAIN (RD-1) IN SAME LOCATION AS EXISTING. COORDINATE ROOF DRAIN OUTLET SIZE WITH EXISTING PIPE SIZE AND CONNECT TO EXISTING PIPING AT ROOF. REFER TO SPECIFICATION 22 13 19 FOR ROOF DRAIN REQUIREMENTS.



PARAPET DETAIL
A 20-ASM1.3



ROOF-TO-WALL FLASHING
B 20-ASM1.3



ROOF CURB WALL
C 20-ASM1.3

**WATER TREATMENT PLANT
ROOF PLAN**

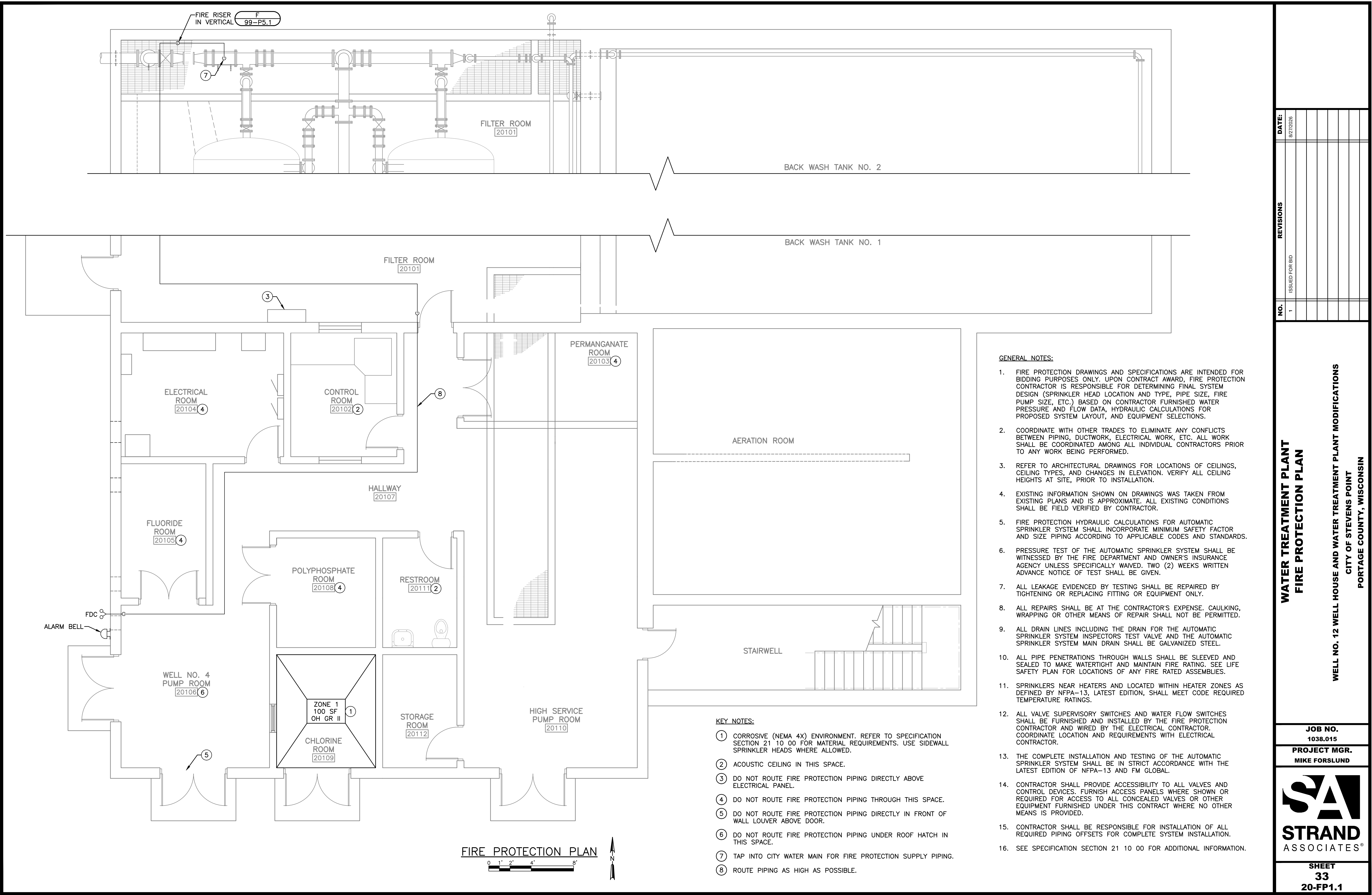
WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

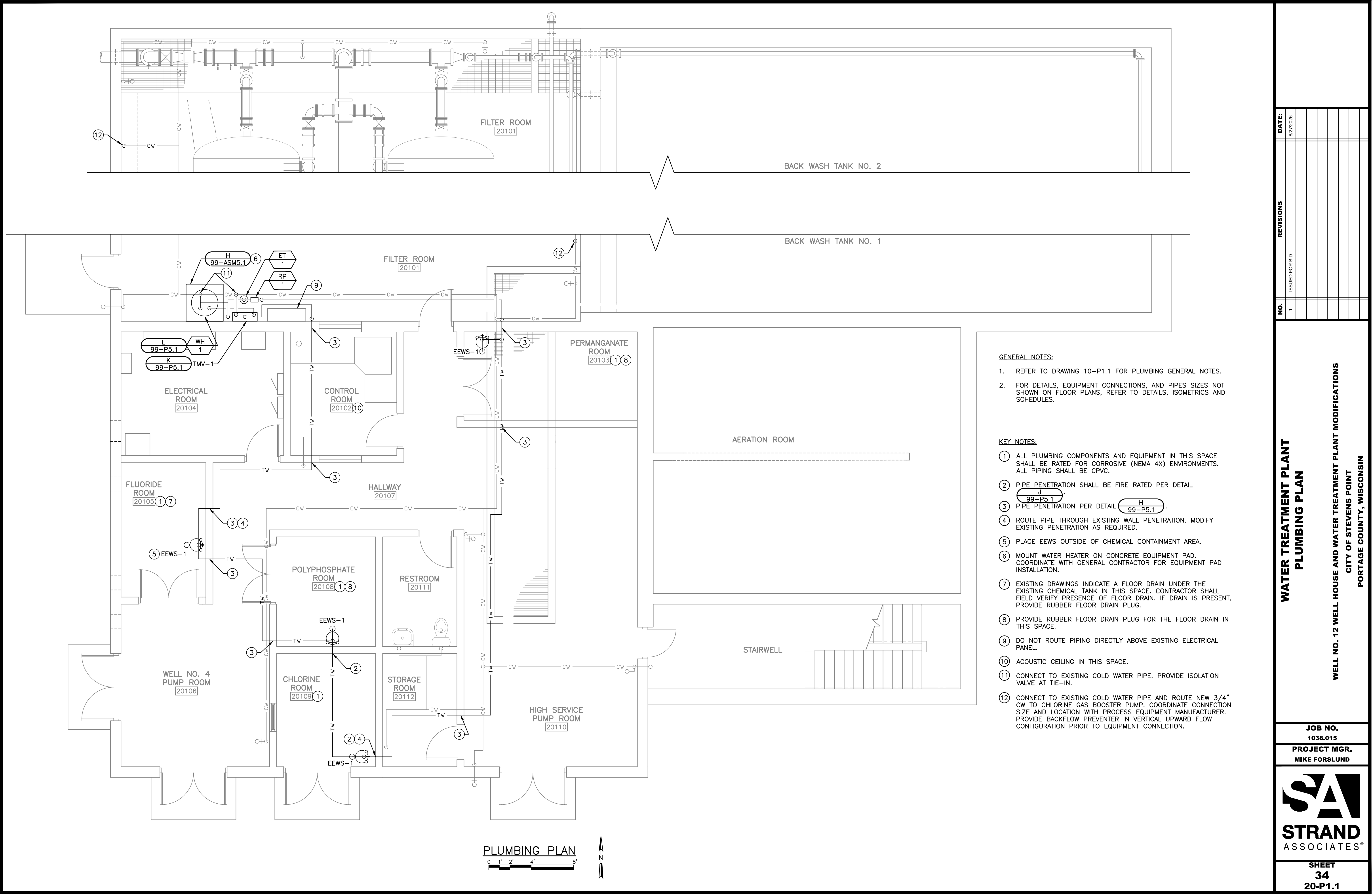
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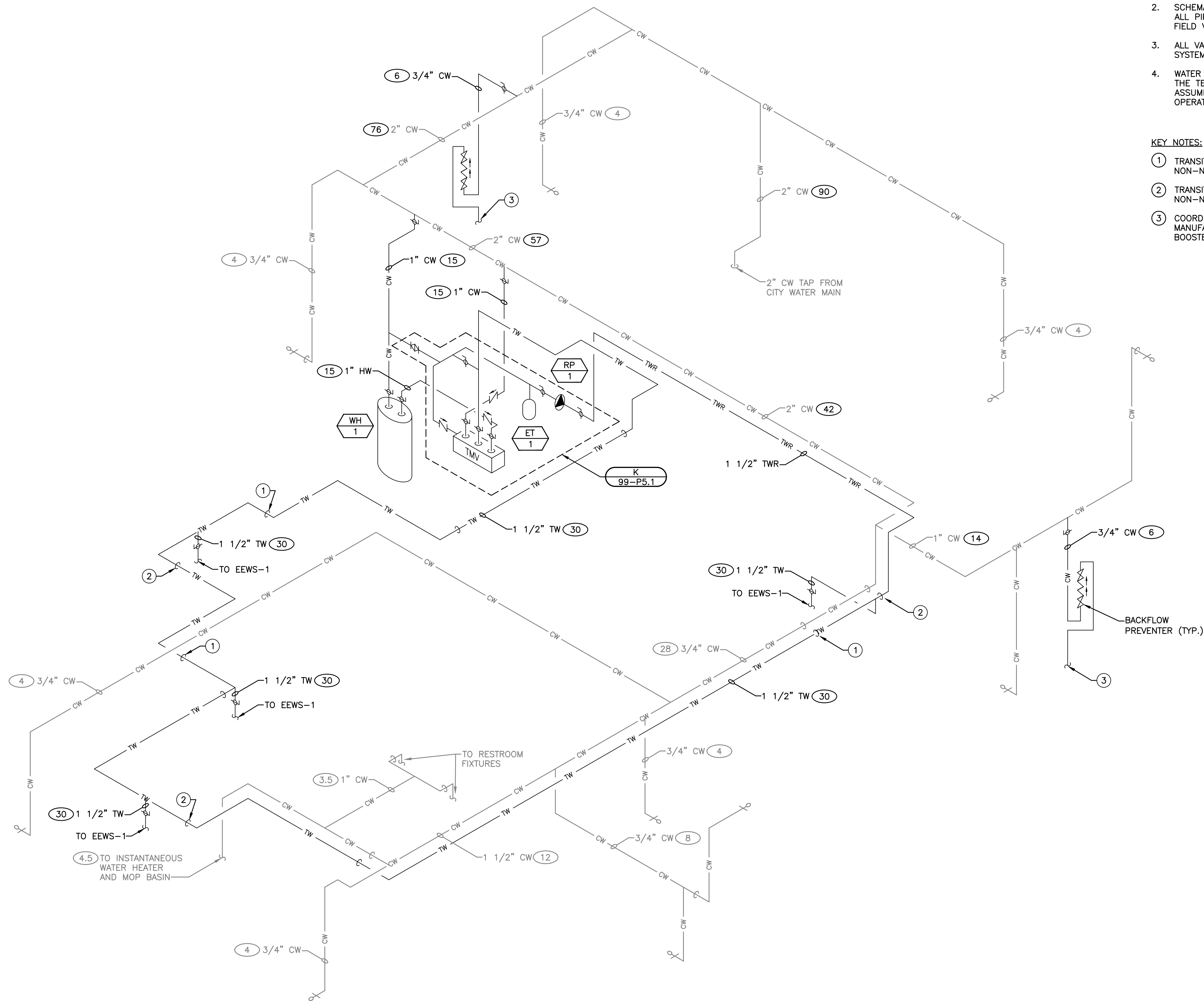
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SHEET
32
20-ASM1.3







WATER SUPPLY SCHEMATIC
NO SCALE

GENERAL NOTES:

1. REFER TO DRAWING 10-P1.1 FOR GENERAL PLUMBING NOTES.
2. SCHEMATICS ARE SHOWN FOR INTENT AND CLARITY. ALL PIPE ROUTES AND CONNECTIONS SHALL BE FIELD VERIFIED.
3. ALL VALVES ASSOCIATED WITH THE TEMPERED WATER SYSTEM SHALL BE LOCKABLE.
4. WATER SUPPLY FIXTURE UNITS WERE ASSIGNED TO THE TEMPERED WATER SYSTEM WITH THE ASSUMPTION THAT ONLY ONE EEWS WILL BE IN OPERATION AT ANY GIVEN TIME.

KEY NOTES:

- ① TRANSITION FROM COPPER PIPE TO CPVC PIPE ON NON-NEMA 4X SIDE OF WALL PENETRATION.
- ② TRANSITION FROM CPVC PIPE TO COPPER PIPE ON NON-NEMA 4X SIDE OF WALL PENETRATION.
- ③ COORDINATE WITH PROCESS EQUIPMENT CONTRACTOR AND MANUFACTURER FOR CONNECTION TO CHLORINE GAS BOOSTER PUMP EQUIPMENT.

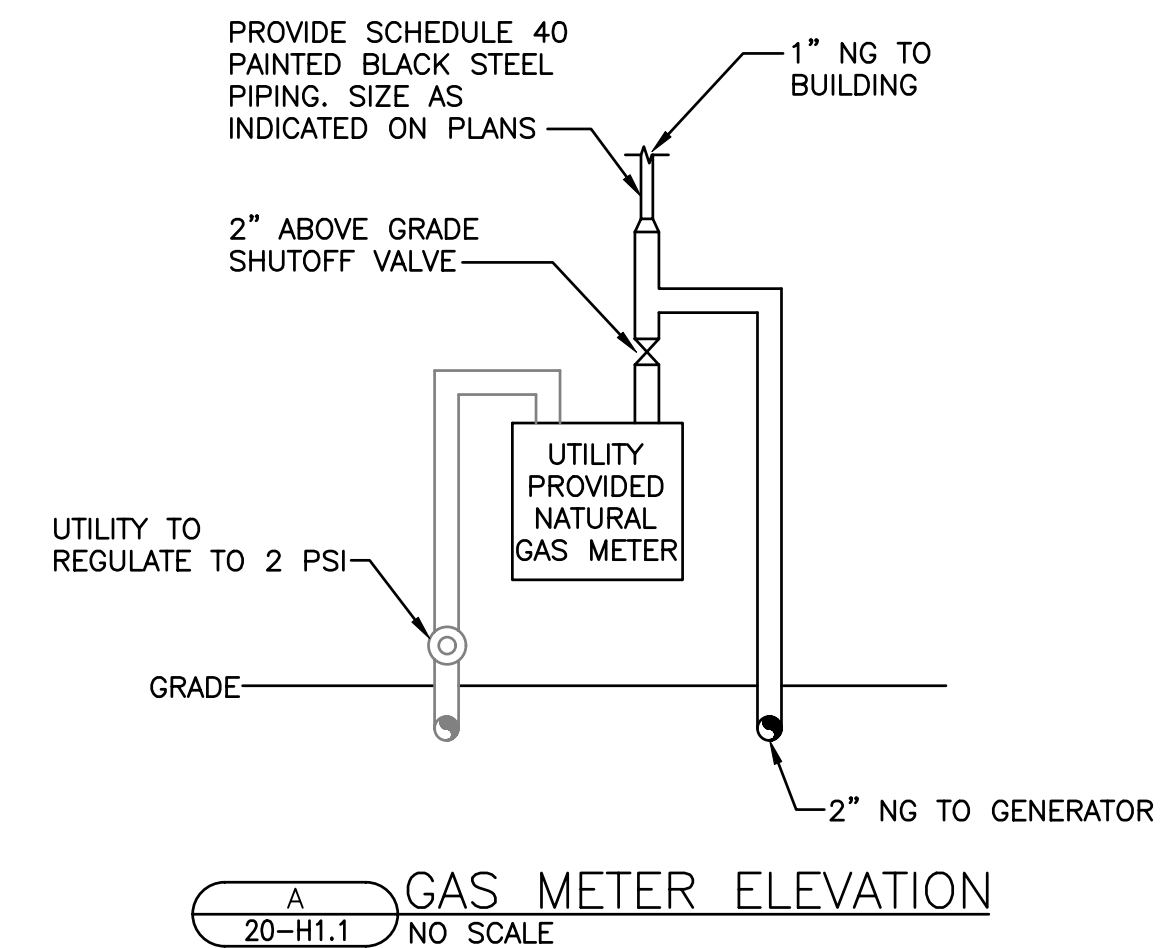
WATER TREATMENT PLANT
PLUMBING
SCHEMATIC
WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015

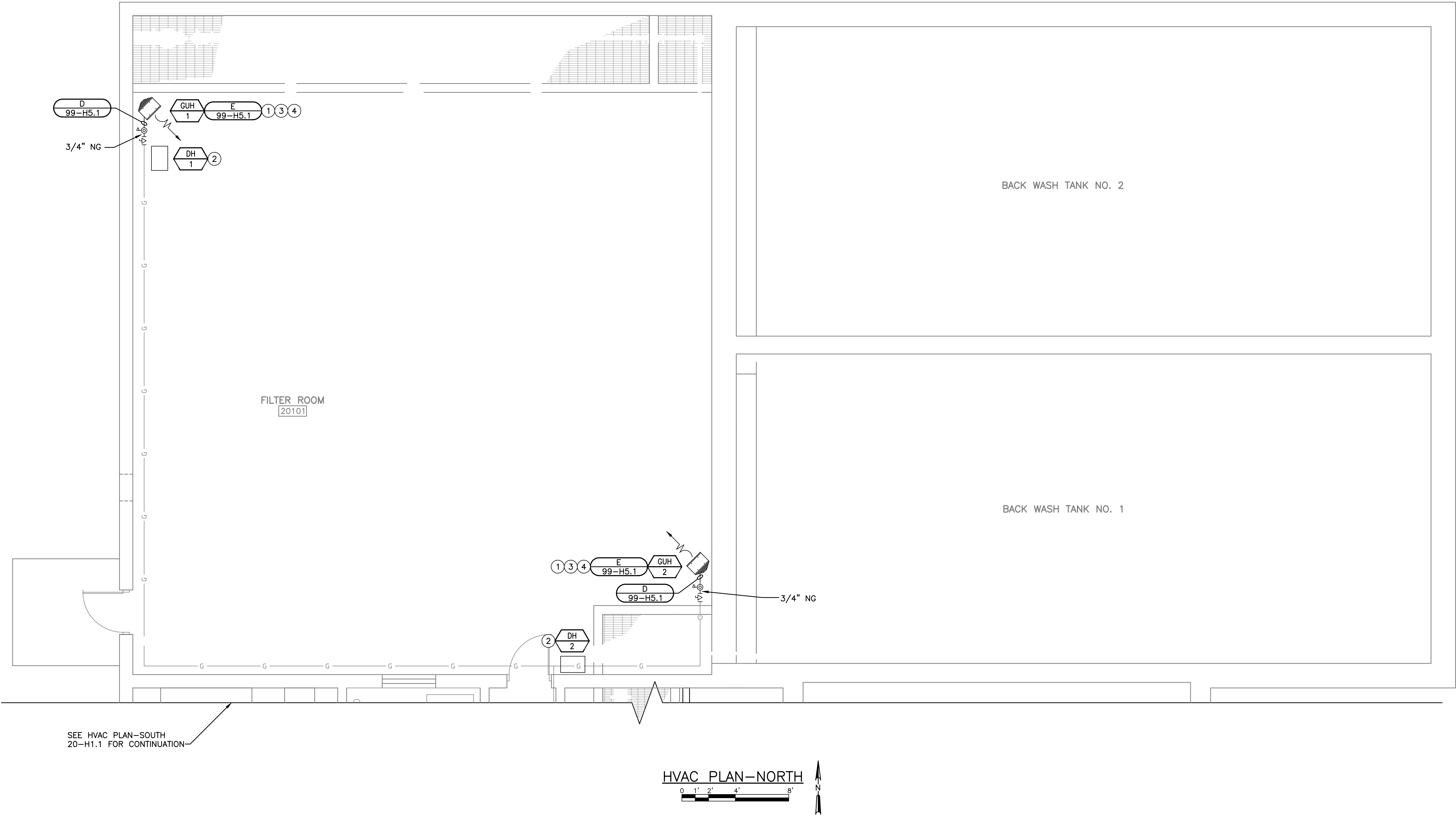
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SHEET
35
20-P7.1



- GENERAL NOTES:
1. REFER TO DRAWING 10-H1.1 FOR GENERAL NOTES.
- KEY NOTES:
- ① CONNECT TO EXISTING NG PIPING. PROVIDE SHUTOFF VALVE AND PRESSURE REDUCING VALVE PRIOR TO UNIT CONNECTION. REGULATE GAS DOWN TO MANUFACTURERS RECOMMENDED OPERATING PRESSURE.
- ② POWER FROM EXISTING OUTLET. ROUTE CONDENSATE DRAIN TO NEARBY FLOOR DRAIN BELOW GRATING.
- ③ UTILIZE EXISTING ROOF PENETRATION FOR GAS UNIT HEATER VENT. MODIFY PENETRATION AS REQUIRED.
- ④ INSTALL GAS UNIT HEATER MANUFACTURER PROVIDED THERMOSTAT IN SAME LOCATION AS REMOVED THERMOSTAT. DIVISION 23 PROVIDED WIRING INSTALLED IN CONDUIT BY DIVISION 26.



WATER TREATMENT PLANT
HVAC PLAN - NORTH

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

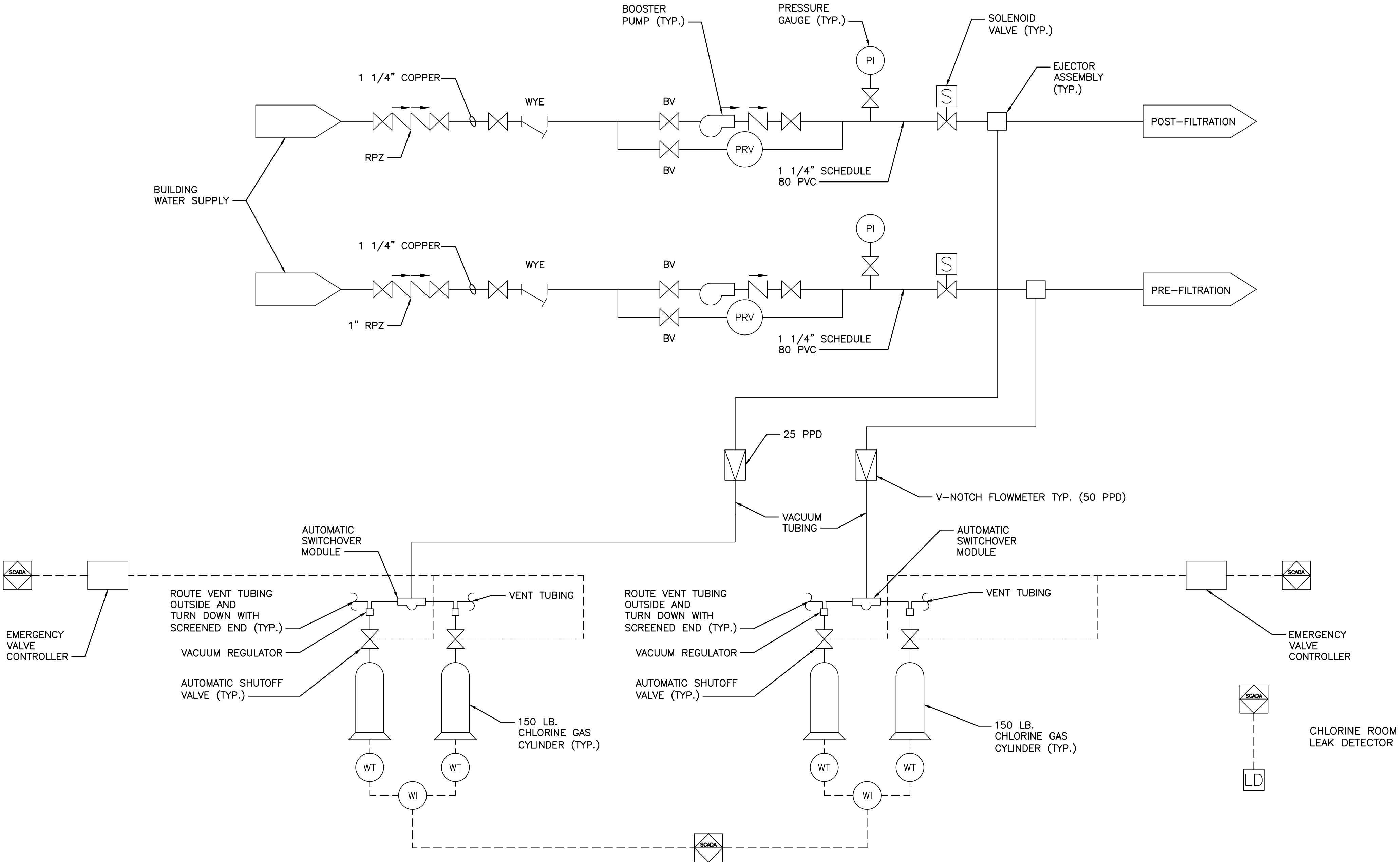
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SHEET
37
20-H1.2

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CHLORINATION PID
NO SCALE

[illegible]

**WATER TREATMENT PLANT
CHLORINATION P&ID**

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS

**CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN**

JOB NO.
1038.015

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SHEET
38
20-M3.1

1. REFER TO SPECIFICATION SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE SCADA SYSTEM.
2. REFER TO SHEET 20-ASM1.0 FOR LOCATION OF FIRE RATED WALLS.
3. THERMOSTATS ON EXTERIOR WALLS SHALL HAVE INSULATED BASES.

- ① ALL ELECTRICAL WORK AND EQUIPMENT IN THIS AREA SHALL BE RATED NEMA 4X, PVC, OR FRP.
- ② DEVICE PROVIDED AS SPECIFIED IN DIVISION 46 AND WIRED BY DIVISION 26.
- ③ PROVIDE MANUFACTURER-FURNISHED CABLE IN 3/4" CONDUIT FROM WEIGHT ELEMENT TO WEIGHT TRANSMITTER. RECONNECT EXISTING WEIGHT INDICATOR SIGNAL CONDUIT AND WIRING TO SCP-4. EXTEND CONDUIT AND WIRING AS REQUIRED.
- ④ PROVIDE 2~#14 IN 3/4" CONDUIT FROM EVC-01 AND 2~#14 IN 3/4" CONDUIT FROM EVC-02 TO CS-03 AND CS-04 FOR EMERGENCY VALVE CLOSE PUSHBUTTONS.
- ⑤ RELOCATE SALVAGED WEIGHT INDICATOR FOR USE WITH NEW SCALES. PROVIDE NEW EQUIPMENT TAG.

- ⑥ PROVIDE OUTLET BOX AND 3/4" CONDUIT FROM BOX TO SPLIT-SYSTEM INDOOR UNIT FOR DIVISION 23—PROVIDED THERMOSTAT AND LOW VOLTAGE WIRING.
- ⑦ DEVICE SHALL BE WIRED TO THE FACP BY DIVISION 28. PROVIDE REQUIRED ADDRESSABLE CONTROL MODULES AND SUPERVISORY RELAYS TO MONITOR THE DEVICE AT THE FACP.
- ⑧ FAN SHALL RUN CONTINUOUSLY AND INTAKE DAMPER SHALL BE OPEN WHEN THE FAN IS RUNNING.
- ⑨ PROVIDE RED, GLASS-BREAK-STYLE, MAINTAINED PUSHBUTTON CONTROL STATION, AS SPECIFIED IN SECTION 26 09 00. CONTROL STATION SHALL BE LABELED "VENTILATION SYSTEM EMERGENCY SHUTOFF."

- (1) THE HAZARDOUS MATERIAL ALARM PULL STATION SHALL BE WIRED TO THE FACP BY DIVISION 28. PROVIDE REQUIRED ADDRESSABLE CONTROL MODULES AND SUPERVISORY RELAYS TO MONITOR THE DEVICE AT THE FACP.
- (11) FIRE SUPPRESSION SYSTEM ALARM BELL FURNISHED BY DIVISION 21 AND INSTALLED AND WIRED BY DIVISION 28. ALARM BELL SHALL BE POWERED FROM THE FACP.
- (12) PROVIDE #6 INSULATED GROUND CONDUCTOR IN 3/4" CONDUIT FROM TELEPHONE SWITCH GROUND BAR TO HMP-10181-MCC GROUND BUS. EXISTING GROUND CONDUCTOR SHALL BE REMOVED.
- (13) PROVIDE NEW 24" X 24" TELEPHONE SWITCH 3/4" PLYWOOD BACKBOARD PERMANENTLY ATTACHED TO THE WALL WITH FLUSH MOUNTING HARDWARE. TREAT THE PLYWOOD WITH A NONCONDUCTIVE, FIRE-RESISTANT COATING. MOUNT THE BACKBOARD 24" ABOVE FINISHED FLOOR. REMOVE AND REINSTALL EXISTING TELEPHONE SWITCH AS REQUIRED.
- (14) PROVIDE OUTLET BOX AND 3/4" CONDUIT FROM BOX TO GAS UNIT HEATER FOR DIVISION 23-PROVIDED THERMOSTAT AND LOW-VOLTAGE WIRING.
- (15) REUSE EXISTING CIRCUIT FROM LP-1. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED.
- (16) REUSE EXISTING CIRCUIT FROM HMP-10181-MCC. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED.
- (17) PROVIDE 2~#12 AND #12 GROUND IN 3/4" CONDUIT FROM SPARE 20/1 BREAKER IN LP-1 TO EF-9 AND ASSOCIATED DAMPERS VIA HMP-10181-MCC.
- (18) PROVIDE 2~#12 AND #12 GROUND IN 3/4" CONDUIT FROM SPARE 20/1 BREAKER IN LP-1 TO EF-5 AND ASSOCIATED DAMPER VIA HMP-10181-MCC.
- (19) ONE POLE OF THE LIGHT SWITCH SHALL BE WIRED TO CONTROL EF-6 AND ASSOCIATED DAMPERS AND SECOND POLE SHALL BE WIRED TO CONTROL THE STORAGE ROOM LIGHTING.
- (20) ONE POLE OF THE OCCUPANCY SENSOR SHALL BE WIRED TO CONTROL EF-8 AND SECOND POLE SHALL BE WIRED TO CONTROL THE RESTROOM LIGHTING.
- (21) RELOCATE EXISTING SURGE SUPPRESSOR NORTH TO MAKE ROOM FOR NEW SE-RATED ATS. MODIFY EXISTING CONDUIT AND WIRING AS NEEDED.
- (22) PROVIDE 2~#14 AND #12 GROUND IN 3/4" CONDUIT FROM SPLIT SYSTEM OUTDOOR UNIT TO INDOOR UNIT FOR CONTROL.
- (23) PROVIDE MANUFACTURER-FURNISHED CABLE IN 3/4" CONDUIT CHLORINE LEAK SENSOR TO TRANSMITTER. MOUNT SENSOR TO CONTROLLER PER MANUFACTURERS RECOMMENDATIONS.
- (24) PROVIDE 2~#14 IN 3/4" CONDUIT FROM AIT-01 TO EVC FOR CHLORINE LEAK ALARM SIGNAL.
- (25) REFER TO SPECIFICATION SECTION 26 09 00 FOR REQUIRED MODIFICATIONS TO SCP-4.
- (26) RELOCATE GENERATOR FROM WELL 11 AS SHOWN ON SHEET 30-D1.1. ADJUST GENERATOR CONTROLS AS NECESSARY FOR NON-PARALLELED USE. COORDINATE ENCLOSURE INSTALLATION WITH ENCLOSURE MANUFACTURER.
- (27) THE MOTOR SHALL START AND RUN WHEN THE ROOM TEMPERATURE RISES ABOVE THE TEMPERATURE SET ON THE ASSOCIATED THERMOSTAT. THE MOTOR SHALL SHUT DOWN WHEN THE ROOM TEMPERATURE FALLS BELOW THE TEMPERATURE SET ON THE ASSOCIATED THERMOSTAT. THE ASSOCIATED DAMPERS SHALL OPEN WHEN THE MOTOR IS RUNNING.
- (28) BRANCH CIRCUIT WIRING TO EF-1, EF-6, AND DAMPER SHALL BE ROUTED THROUGH DAMPER RELAY ENCLOSURE. ENCLOSURE SHALL BE FURNISHED BY THE SECTION 26 09 00 SYSTEM SUPPLIER. BRANCH CIRCUIT WIRING TO EF-3 SHALL NOT BE ROUTED THROUGH ENCLOSURE.
- (29) E-STOP CONTROL STATION FURNISHED AS SPECIFIED IN SECTION 26 32 13 AND INSTALLED BY DIVISION 26. PROVIDE 2~#14 IN 3/4" CONDUIT FROM E-STOP TO GENERATOR CONTROL PANEL.

[illegible]

WATER TREATMENT PLANT ELECTRICAL PLAN-SOUTH

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

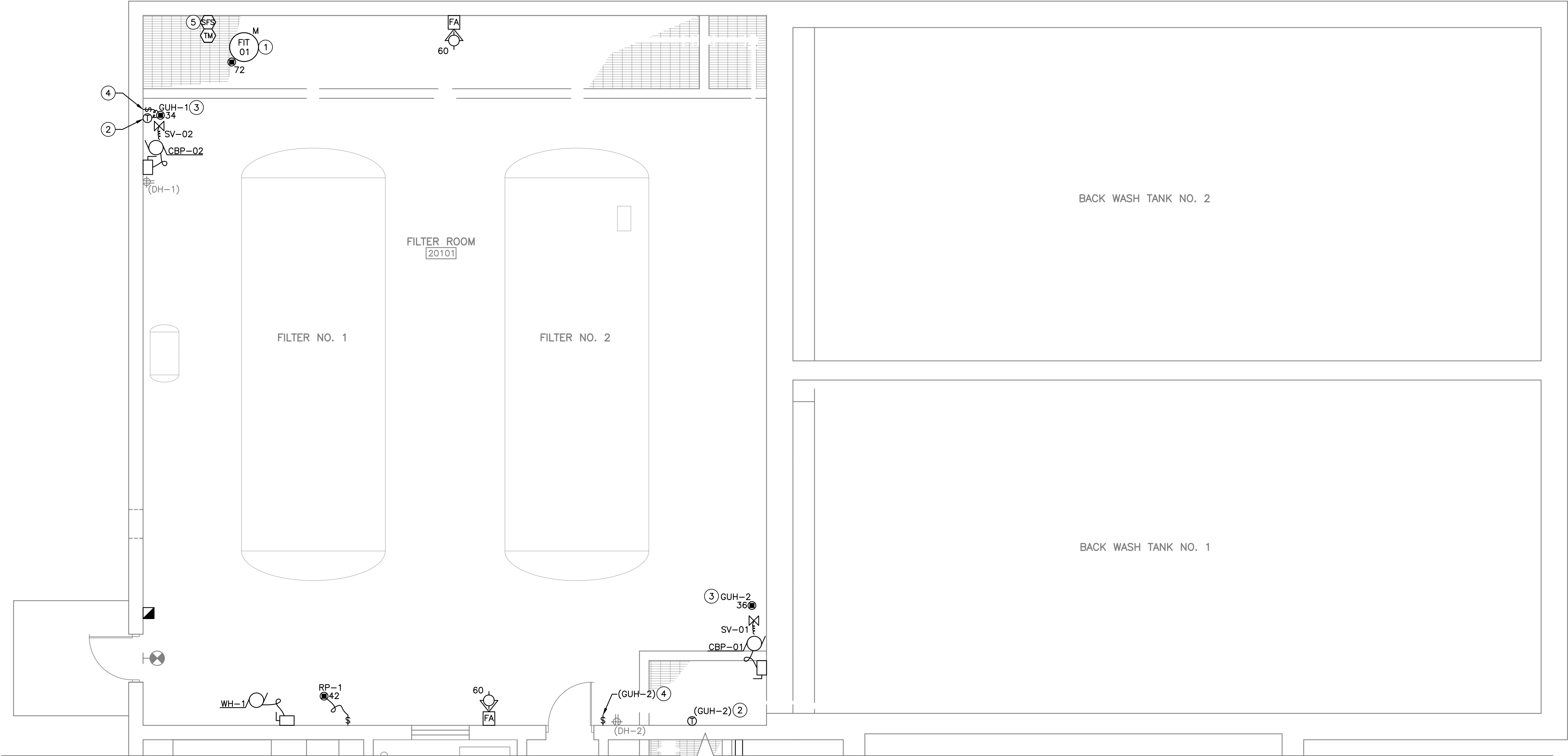
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MIKE FORSLUND



**SHEET
39
20-E1.1**

- GENERAL NOTES:
- REFER TO SPECIFICATION SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE SCADA SYSTEM.
 - THERMOSTATS ON EXTERIOR WALLS SHALL HAVE INSULATED BASES.
- KEY NOTES:
- FLOW METER PROVIDED BY OTHERS AND WIRED BY DIVISION 26.
 - PROVIDE OUTLET BOX AND 3/4" CONDUIT FROM BOX TO GAS UNIT HEATER FOR DIVISION 23--PROVIDED THERMOSTAT AND LOW-VOLTAGE WIRING.
 - REUSE EXISTING CIRCUIT FROM LP-1. EXTEND CONDUIT AND WIRING AS REQUIRED.
 - EXTEND EXISTING CONDUIT AND WIRING TO NEW UNIT AS REQUIRED.
 - FIRE SUPPRESSION SYSTEM FLOW SWITCH AND TAMPER SWITCHES PROVIDED BY DIVISION 21 AND WIRED TO THE FACP BY DIVISION 28. PROVIDE REQUIRED ADDRESSABLE CONTROL MODULES AND SUPERVISORY RELAYS TO MONITOR EACH DEVICE AT THE FACP.



ELECTRICAL PLAN--NORTH

WATER TREATMENT PLANT
ELECTRICAL PLAN - NORTH

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

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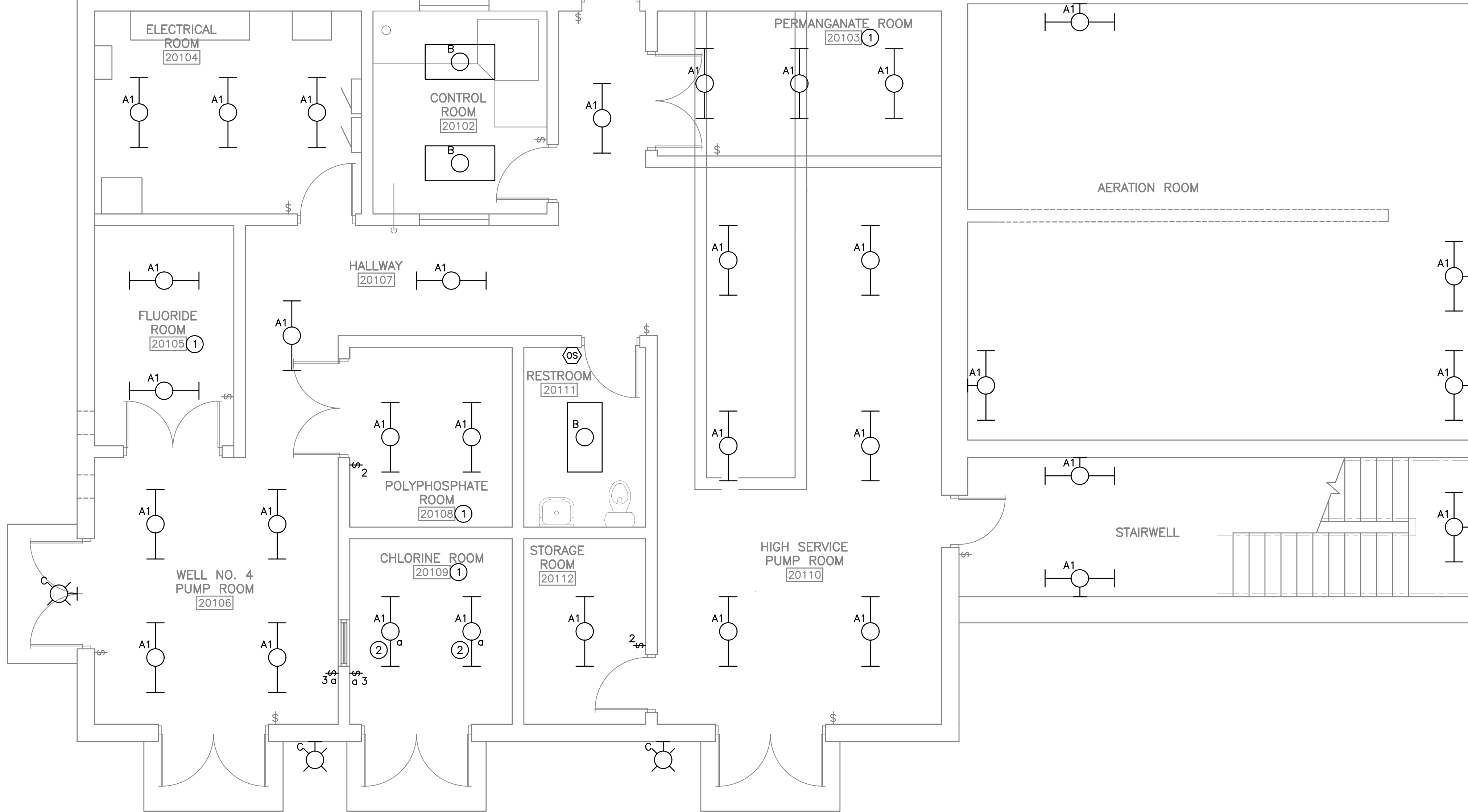
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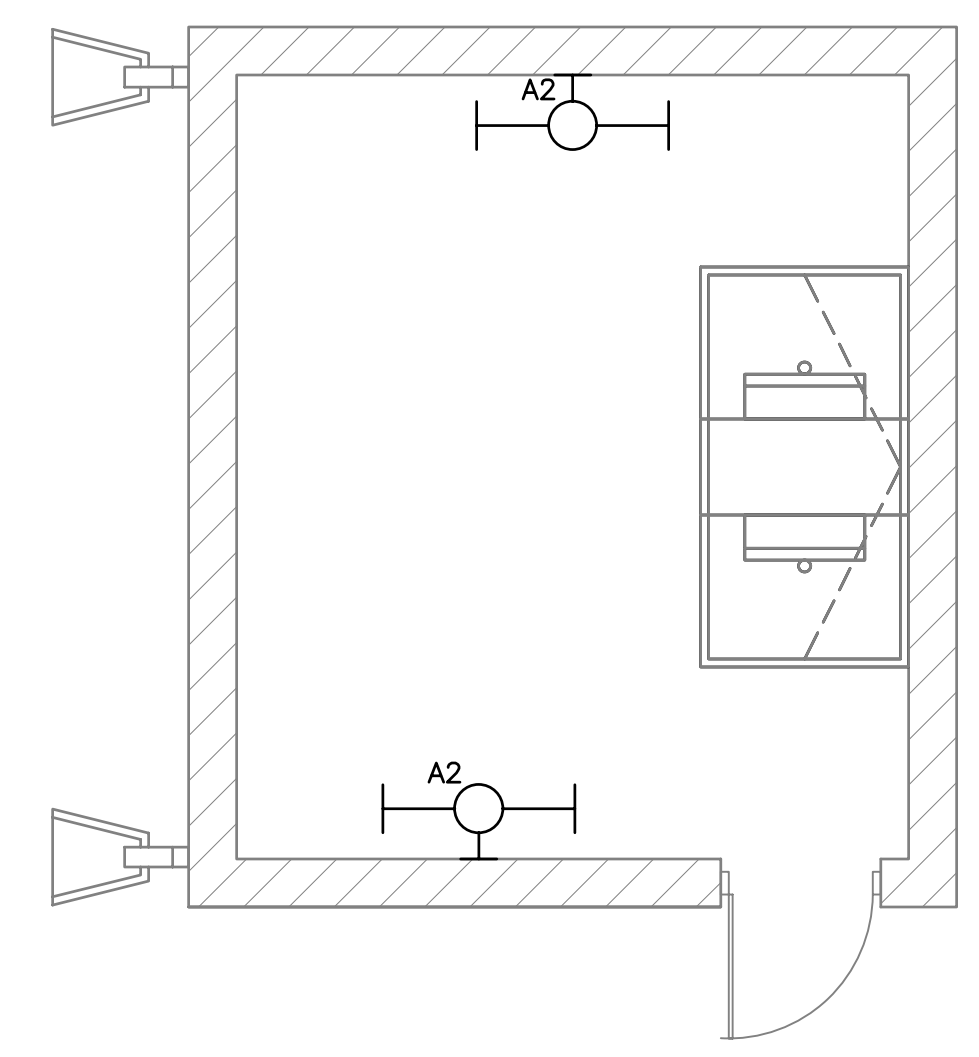
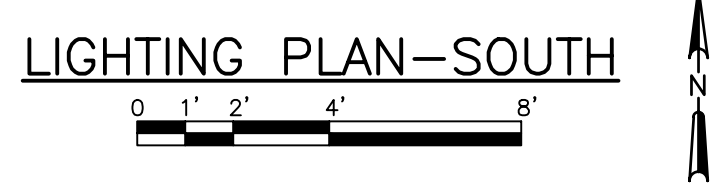
SHEET
40
20-E1.2

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	8/27/2026

SEE LIGHTING PLAN-NORTH
20-E1.4 FOR CONTINUATION



- GENERAL NOTES:**
- REFER TO SHEET 20-ASM1.0 FOR LOCATION OF FIRE RATED WALLS.
 - ALL EXISTING LIGHT SWITCHES TO REMAIN EXCEPT THOSE SHOWN AS NEW ON THIS DRAWING.
 - LOCATION OF NEW LIGHT FIXTURES SHALL BE IN THE SAME LOCATION AS REMOVED FIXTURES UNLESS OTHERWISE NOTED. MODIFY EXISTING CONDUIT AND WIRING AS NECESSARY TO RECONNECT TO NEW LIGHT FIXTURES.
- KEY NOTES:**
- ALL ELECTRICAL WORK AND EQUIPMENT IN THIS AREA SHALL BE RATED NEMA 4X, PVC, OR FRP.
 - MODIFY EXISTING CONDUIT AND WIRING AS REQUIRED TO ACCOMMODATE NEW LIGHT FIXTURE LOCATIONS.



ACCESS ROOM PLAN

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**WATER TREATMENT PLANT
LIGHTING PLAN - SOUTH**

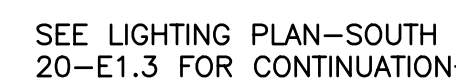
WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015

PROJECT MGR.
MIKE FORSLUND

SHEET
41
20-E1.3

1. LOCATION OF NEW LIGHT FIXTURES SHALL BE IN THE SAME LOCATION AS REMOVED FIXTURES UNLESS OTHERWISE NOTED. MODIFY EXISTING CONDUIT AND WIRING AS NECESSARY TO RECONNECT TO NEW LIGHT FIXTURES.

[illegible]

**WATER TREATMENT PLANT
LIGHTING PLAN - NORTH**

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS

**CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN**

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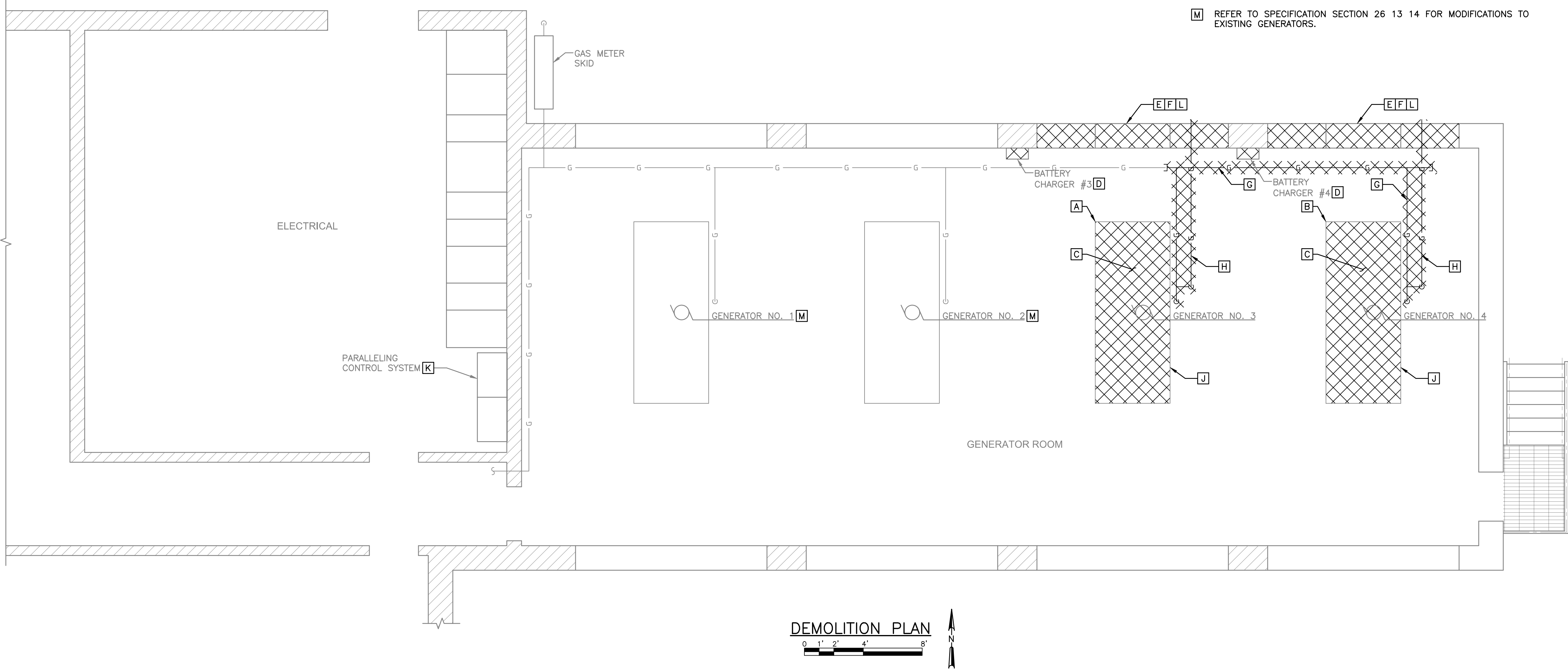
**SHEET
42
20-E1.4**

DEMOLITION GENERAL NOTES:

- 1. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIALS ASSOCIATED WITH THE ITEMS BEING REMOVED AS SHOWN ON THIS DRAWING, AS WELL AS ALL EXISTING ELECTRICAL DEVICES, MATERIALS, EQUIPMENT, WIRING, AND EXPOSED CONDUITS NOT BEING REUSED. CONCEALED CONDUITS NOT BEING REUSED SHALL BE CAPPED AND ABANDONED IN PLACE.
- 2. PATCH ALL STRUCTURE HOLES AND DEFORMATIONS RESULTING FROM DEMOLITION TO MATCH EXISTING. MOLD PATCHES TO GROUT LINES FOR REPAIRS ON BRICK AND BLOCK WALLS.
- 3. HATCHING FOR SOME ELECTRICAL DEVICES BEING REMOVED NOT SHOWN FOR CLARITY.
- 4. WHERE EXISTING EARTHWORK OR ASPHALT/CONCRETE IS DISTURBED BY CONSTRUCTION ACTIVITIES, PROVIDE BASE COURSE AND PATCH AREA TO MATCH EXISTING.

DEMOLITION KEY NOTES:

- [A] REMOVE EXISTING NATURAL GAS GENERATOR AND RELOCATE TO WELL 4 WHERE SHOWN ON SHEET 20-E1.1. REFER TO SPECIFICATION SECTION 26 32 13 - STANDBY POWER SYSTEMS TO BE RELOCATED FOR REQUIRED MODIFICATIONS TO EXISTING GENERATOR. EXISTING ARC FLASH LABEL AND GENERATOR NUMBER LABEL SHALL BE REMOVED.
- [B] REMOVE EXISTING NATURAL GAS GENERATOR AND RELOCATE TO WELL FIELD WHERE SHOWN ON SHEET 05-E1.6. REFER TO SPECIFICATION SECTION 26 32 13 - STANDBY POWER SYSTEMS TO BE RELOCATED FOR REQUIRED MODIFICATIONS TO EXISTING GENERATOR. EXISTING ARC FLASH LABEL AND GENERATOR NUMBER LABEL SHALL BE REMOVED.
- [C] REMOVE EXHAUST SILENCER, CATALYTIC CONVERTER, AND ALL ASSOCIATED EXHAUST PIPING. CONTRACTOR SHALL REMOVE ADDITIONAL GENERATOR COMPONENTS AS REQUIRED TO REMOVE GENERATOR FROM BUILDING VIA EXISTING GENERATOR EXHAUST LOUVER. CATALYTIC CONVERTER SHALL BE SHIPPED WITH GENERATOR FOR REINSTALLATION BY ENCLOSURE MANUFACTURER.
- [D] REMOVE EXISTING BATTERY CHARGER AND TURN OVER TO OWNER. EXISTING BATTERIES SHALL BE REUSED AND RELOCATED TO NEW GENERATOR LOCATION.
- [E] REMOVE EXISTING GENERATOR EXHAUST LOUVER, DUCTWORK AND DAMPERS, DAMPER ACTUATORS, AND MASONRY BELOW LOUVER AS REQUIRED FOR REMOVAL OF GENERATOR. AFTER EQUIPMENT IS REMOVED, RE-INSTALL LOUVER AND INFILL PER DETAIL P
99-H5.01. REINSTALL WALL AND PROVIDE NEW MASONRY AS REQUIRED.
- [F] REMOVE EXISTING GENERATOR EXHAUST THIMBLE AND PATCH BLOCK WALL TO MATCH EXISTING (INTERIOR AND EXTERIOR). PAINT INTERIOR WALL TO MATCH EXISTING.
- [G] REMOVE NATURAL GAS PIPING AND ASSOCIATED VALVES, REGULATOR, SUPPORTS AND APPURTENANCES FROM GENERATOR BACK TO MAIN AND CAP. PAINT TO MATCH EXISTING.
- [H] REMOVE NATURAL GAS PRESSURE RELIEF VENT PIPING AND ASSOCIATED VALVES, SUPPORTS AND APPURTENANCES. PATCH WALL PENETRATION WITH NON SHRINK GROUT AND PAINT TO MATCH EXISTING.
- [J] REMOVE ALL ENGINE OIL AND ANTIFREEZE FROM GENERATOR PRIOR TO REMOVAL OF GENERATOR.
- [K] REFER TO SPECIFICATION SECTION 26 32 15 FOR REQUIRED MODIFICATIONS TO THE EXISTING GENERATORS PARALLELING CONTROL SYSTEM.
- [L] REMOVE ALL EXISTING EXTERIOR GENERATOR EXHAUST PIPING AND ASSOCIATED SUPPORTS. PATCH ALL HOLES AND DEFORMATIONS TO MATCH EXISTING.
- [M] REFER TO SPECIFICATION SECTION 26 13 14 FOR MODIFICATIONS TO EXISTING GENERATORS.



WELL NO. 11 DEMOLITION PLAN

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS

CITY OF STEVENS POINT

PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015

PROJECT MGR.
MIKE FORSLUND

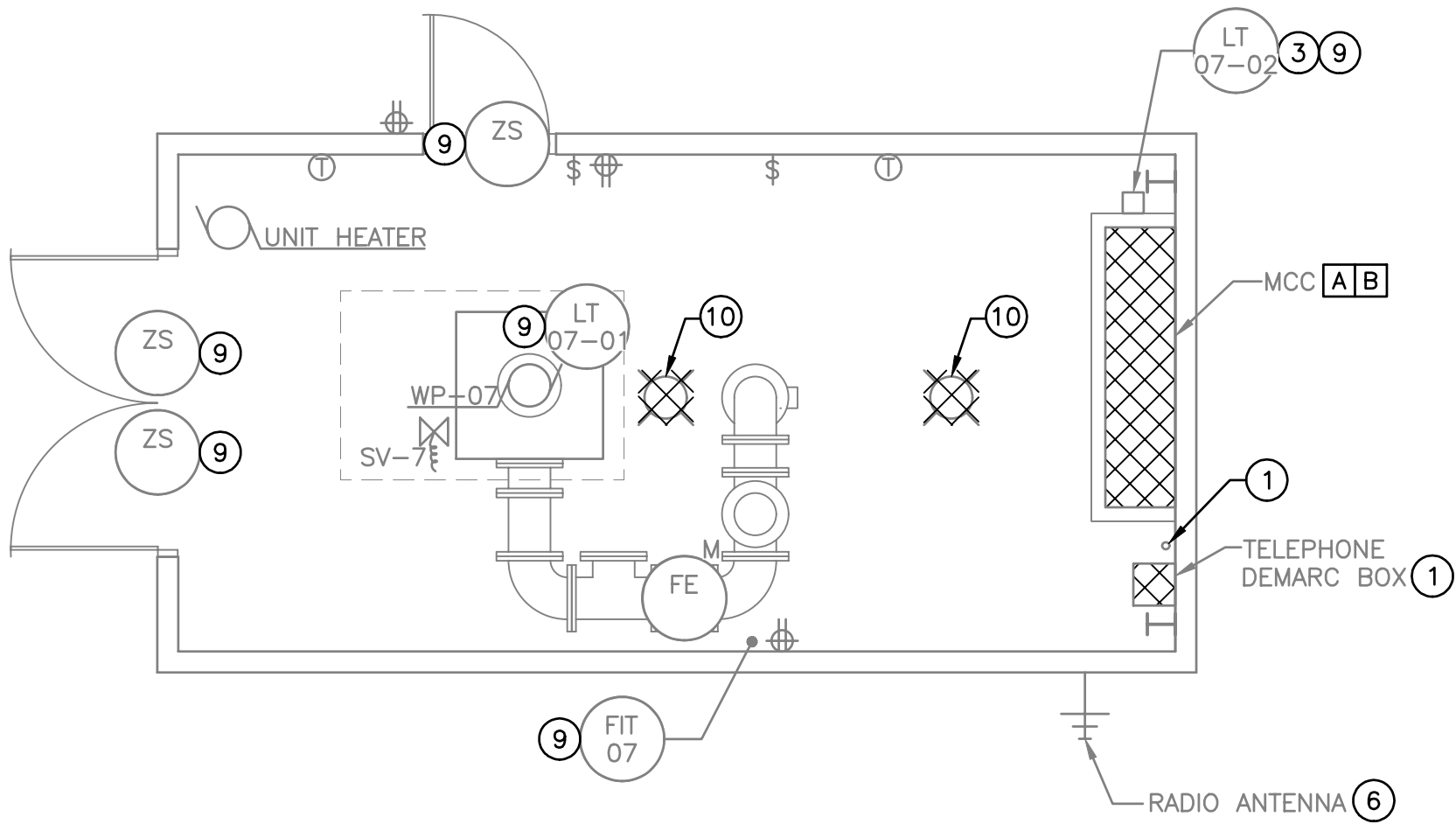


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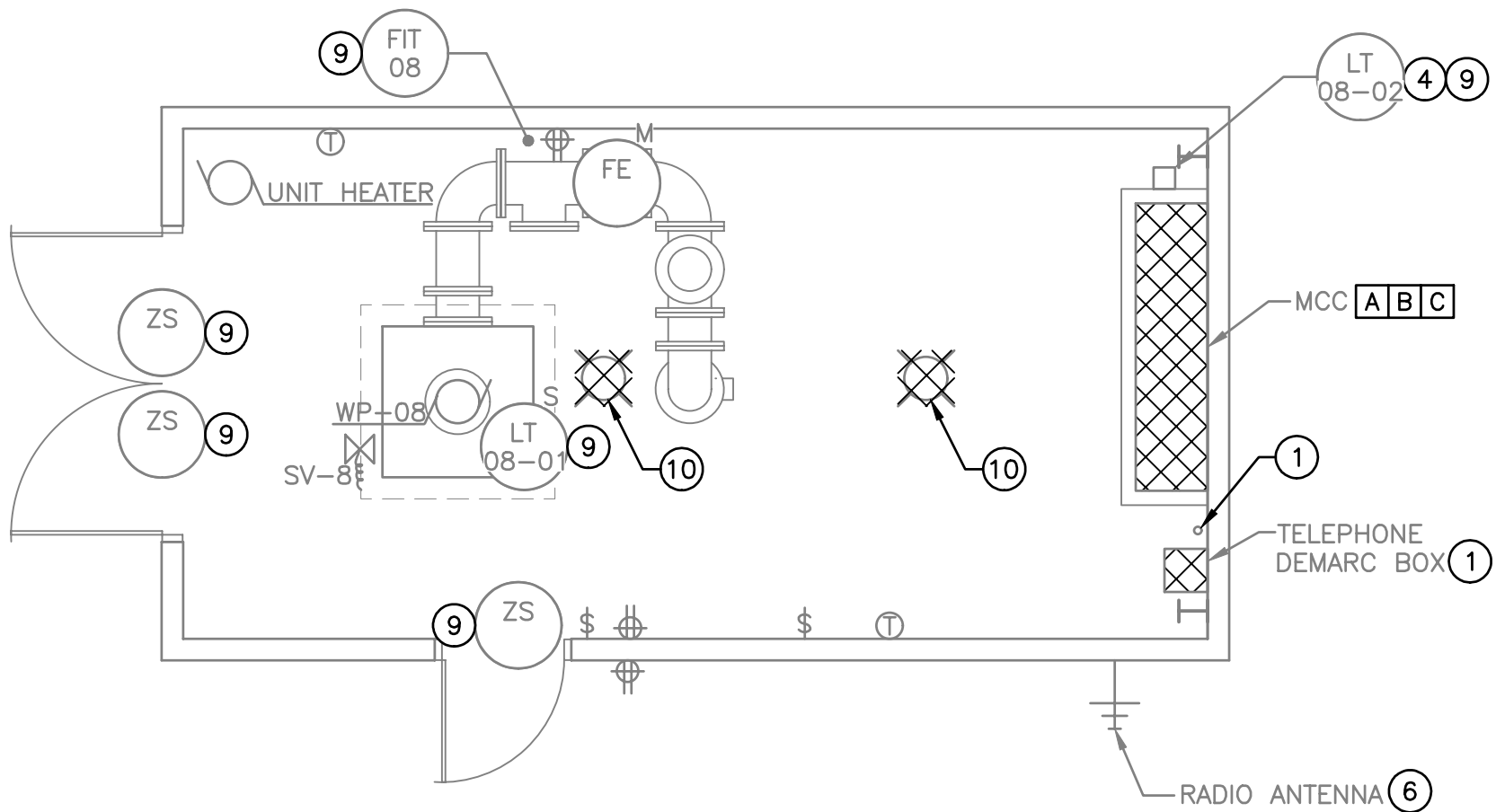
NO.	REVISIONS	DATE:
1	ISSUED FOR BID	8/27/2026

DEMOLITION KEY NOTES:

- [A] REMOVE MCC AND ALL WIRING TO WELL PUMP. EXISTING CONDUIT AND WIRING FOR LIGHTING PANEL CIRCUITS SHALL REMAIN AND BE RECONNECTED TO NEW LIGHTING PANEL IN NEW MCC. MODIFY EXISTING CONDUIT AND WIRING AS REQUIRED.
- [B] THE TELEMETRY PANEL IS LOCATED WITHIN THE EXISTING MCC AND SHALL BE REMOVED WITH THE MCC. THE EXISTING TELEMETRY RADIO AND ASSOCIATED ANTENNA SHALL BE SALVAGED AND REUSED WITH THE NEW TELEMETRY PANEL.
- [C] THE EXISTING WELL PUMP VFD SHALL BE SALVAGED AND REUSED IN THE NEW MCC



WELL HOUSE NO. 7 DEMOLITION PLAN



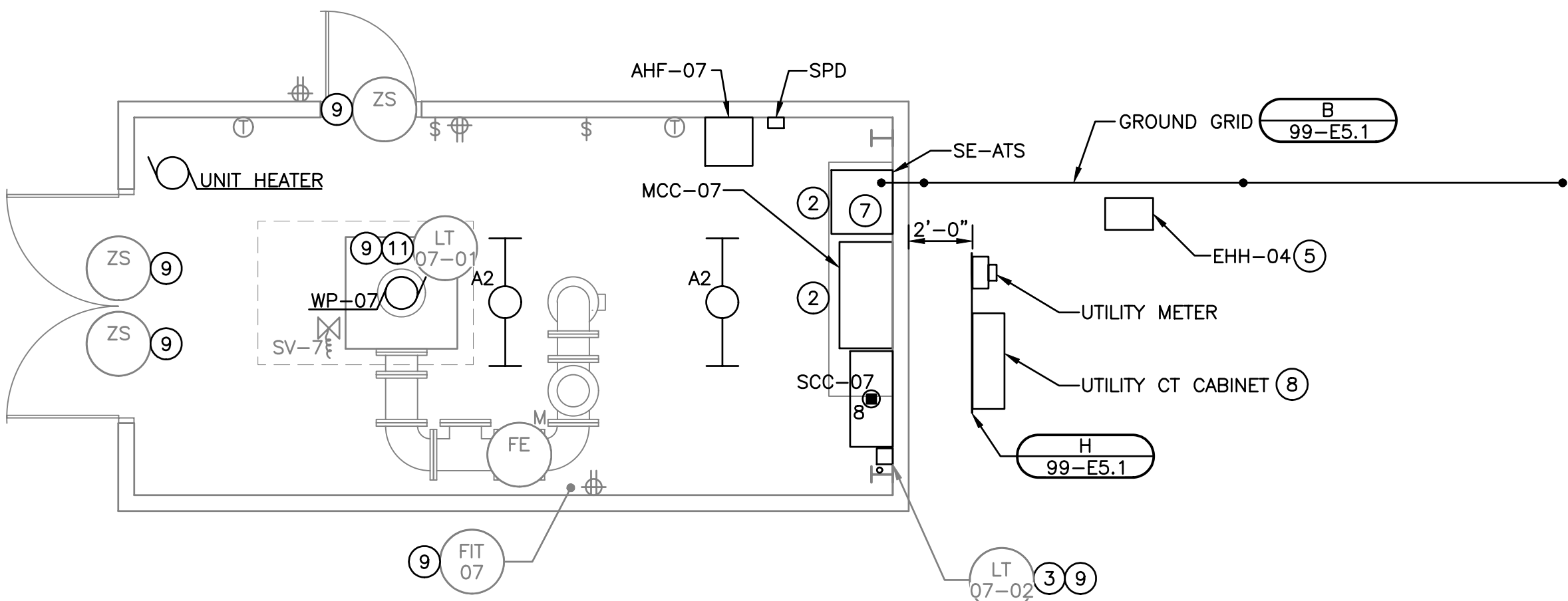
WELL HOUSE NO. 8 DEMOLITION PLAN

GENERAL NOTES:

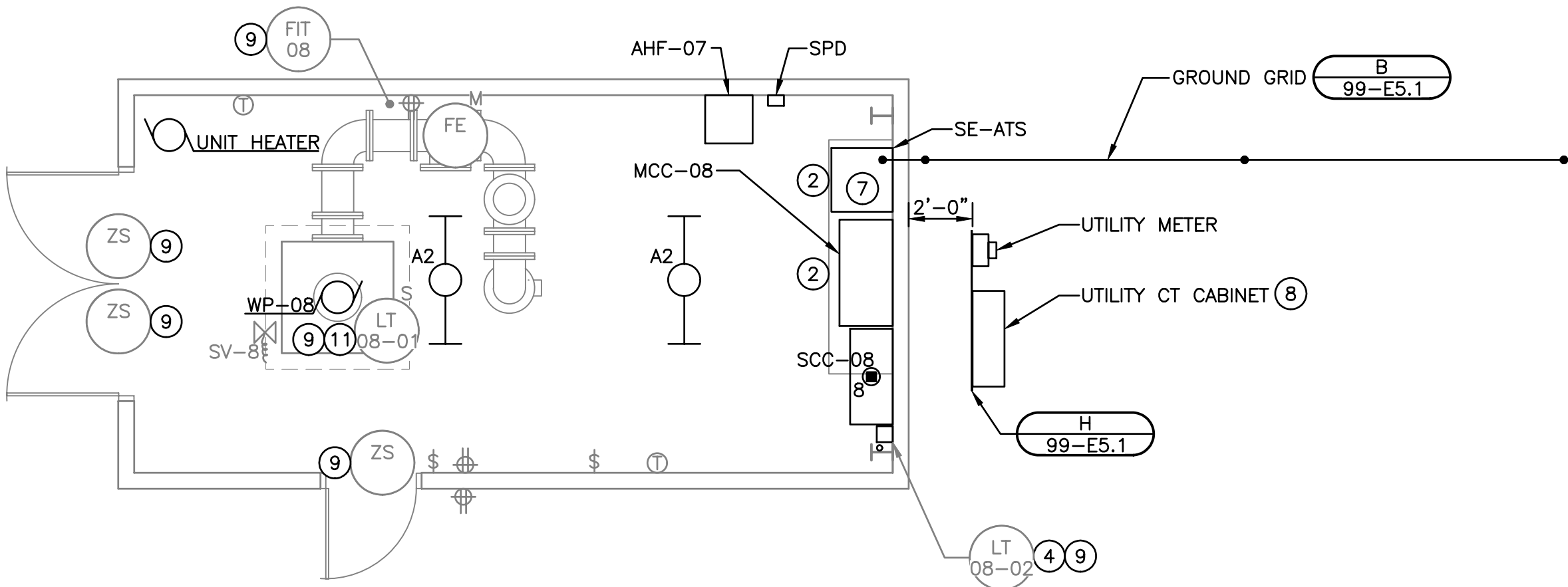
1. NO CONDUIT OR ANY OTHER ITEMS SHALL BE RUN ON EXTERIOR OF BUILDINGS. ANY NEW CONDUITS THAT EXIT BUILDINGS SHALL BE RUN THROUGH FLOOR SLAB. FLOOR SLAB IS SLAB ON GRADE WITH NO FROST WALLS. FILL ALL OPENINGS WITH NON-SHRINK GROUT.
2. REFER TO SPECIFICATION SECTION 01 11 00 FOR INFORMATION ON CONSTRUCTION SEQUENCING.
3. COORDINATE MODIFICATIONS TO EXISTING UTILITY SERVICES WITH UTILITY COMPANY.

KEY NOTES:

- ① REMOVE EXISTING PHONE LINE, DEMARC BOX, AND ALL WIRING. EXISTING 3/4" CONDUIT TO BE REUSED AND MODIFIED AS NEEDED FOR NEW OWNER FURNISHED FIBER CABLE. SEE SCADA RISER DIAGRAM ON SHEET 99-E6.5 FOR ADDITIONAL INFORMATION.
- ② PROVIDE FLOOR MAT AS SPECIFIED IN SECTION 12 48 43 SPANNING ENTIRE LENGTH OF EQUIPMENT.
- ③ RELOCATE EXISTING BUILDING FLOODING FLOAT SWITCH AS SHOWN ON NEW WELL HOUSE PLAN AND REWIRE TO SCC-07.
- ④ RELOCATE EXISTING BUILDING FLOODING FLOAT SWITCH AS SHOWN ON NEW WELL HOUSE PLAN AND REWIRE TO SCC-08.
- ⑤ SPARE 3" SERVICE CONDUIT BELOW CURRENT MCC MAIN BREAKER TERMINATES OUTSIDE OF BUILDING. EXTEND CONDUIT TO NEW HANDHOLE FOR LIGHTING AND GENERATOR CIRCUITS. GENERATOR CIRCUITS SHALL NOT BE RUN THROUGH NEW LIGHT POLE.
- ⑥ RELOCATE EXISTING RADIO ANTENNA TO NEW LIGHT POLE LOCATION AS SHOWN ON SHEET 05-CE1.6. EXISTING ANTENNA MOUNTING HARDWARE SHALL BE REMOVED AND ALL HOLES IN BUILDING PATCHED TO MATCH EXISTING SURFACE. ANTENNA SHALL BE MOUNTED AT TOP OF POLE PER DETAIL G 99-E5.1. PROVIDE MOUNTING HARDWARE AS REQUIRED. ANTENNA CABLE SHALL BE RUN WITHIN POLE.
- ⑦ CONDUIT WITH EXISTING GROUNDING ELECTRODE CONDUCTOR SHALL BE USED FOR NEW GROUNDING ELECTRODE CONDUCTOR. REMOVE EXISTING GROUNDING ELECTRODE CONDUCTOR.
- ⑧ PROVIDE 2~4" CONDUIT FROM CT CABINET TO BELOW GRADE PER UTILITY COMPANY REQUIREMENTS.
- ⑨ DEVICE SHALL BE REWIRED TO NEW SCC. EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED.
- ⑩ MAINTAIN EXISTING CONDUIT AND WIRE FOR NEW LIGHT FIXTURES. EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED TO NEW LIGHTING PANEL.



WELL HOUSE NO. 7 PLAN



WELL HOUSE NO. 8 PLAN

WELL NO. 7 AND NO. 8
DEMOLITION AND ELECTRICAL PLANS

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

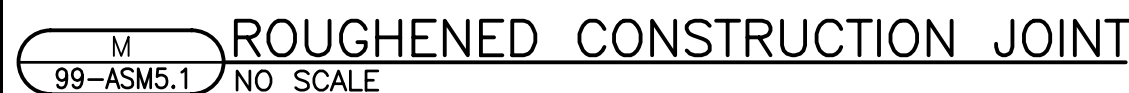
NO.	REVISIONS	DATE:
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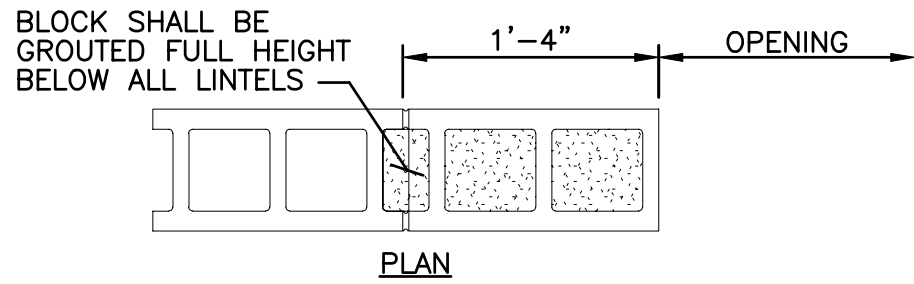
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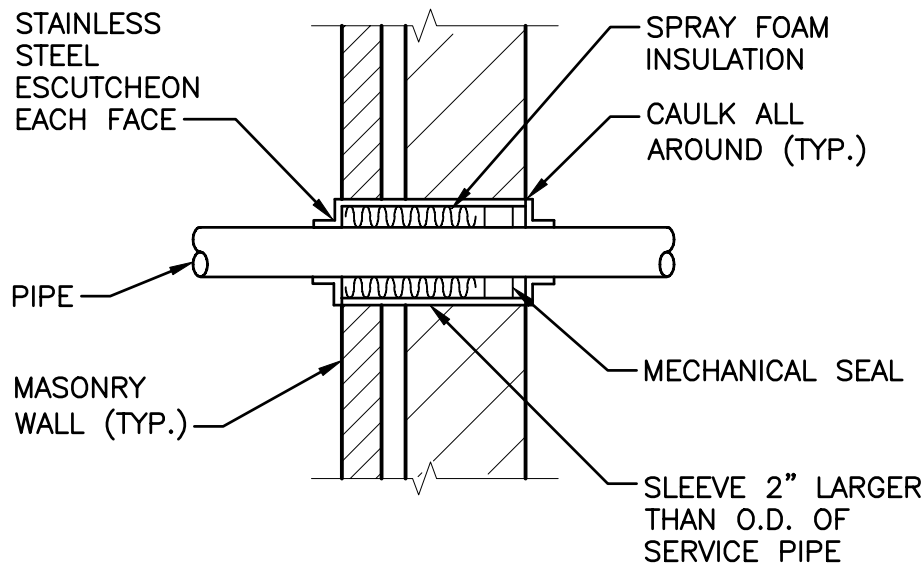
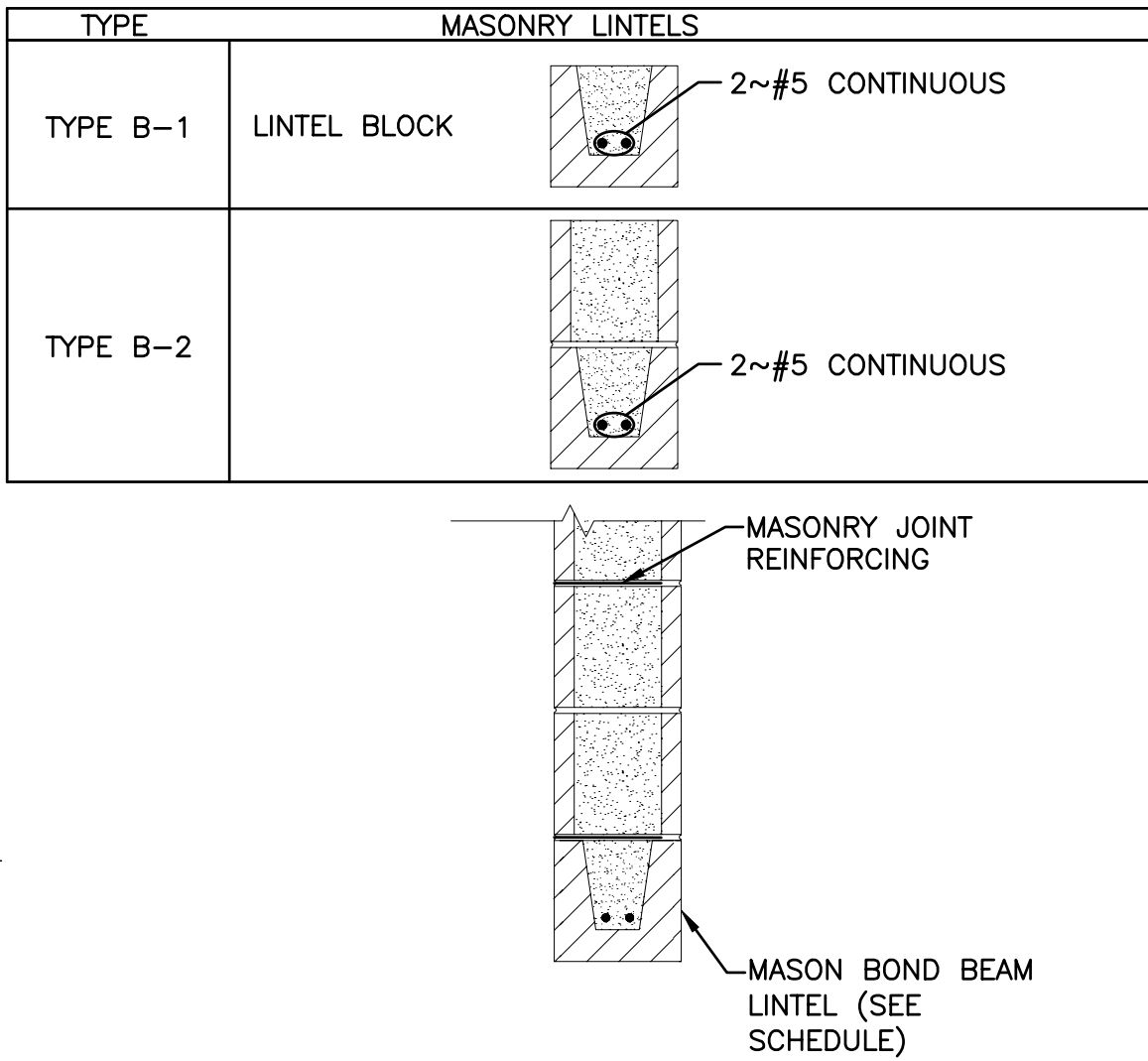
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99-ASM5.1

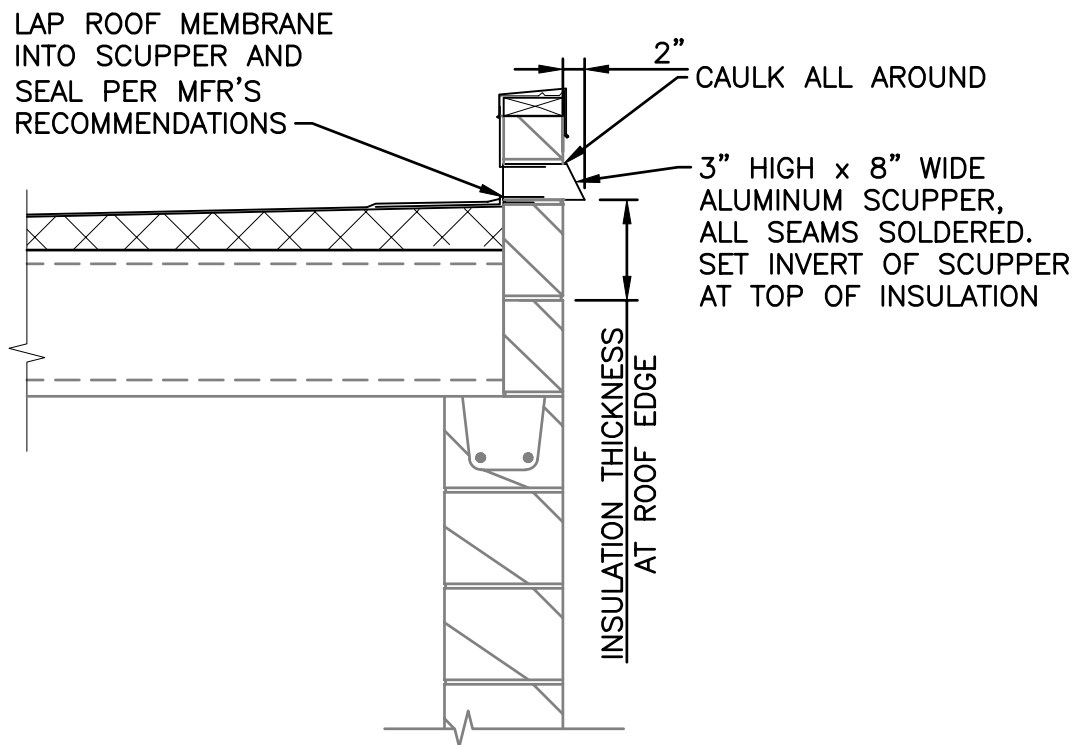
- NOTES:
1. LINTELS ARE REQUIRED OVER ALL MASONRY OPENINGS.
 2. LINTELS SHALL HAVE A MINIMUM BEARING OF 8".
 3. GROUT MASONRY FULL 16" EACH SIDE OF OPENINGS UNDER ALL LINTELS TO FLOOR.
 4. PROVIDE BRICK SUPPORTS AT ALL EXTERIOR OPENINGS.
 5. FOR ARCHITECTURAL DETAILS OF DOOR HEAD, SEE C 99-ASM5.3



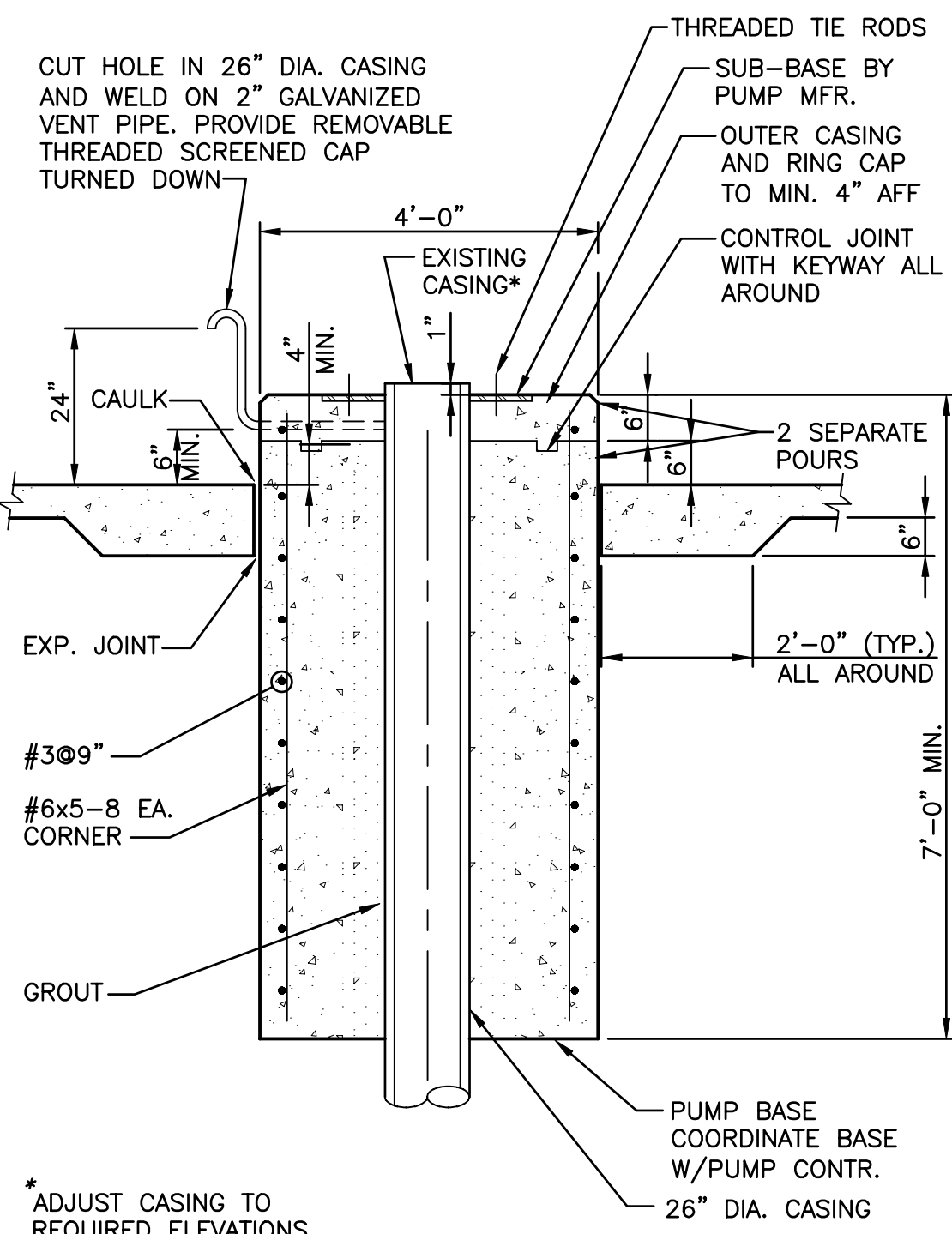
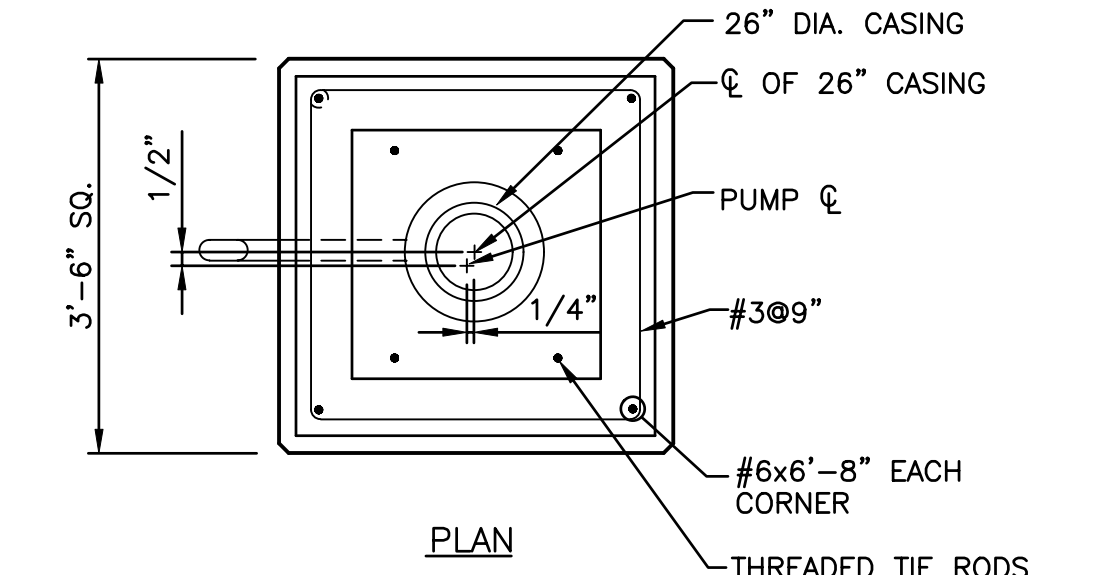
A LINTEL DETAILS
99-ASM5.2 NO SCALE



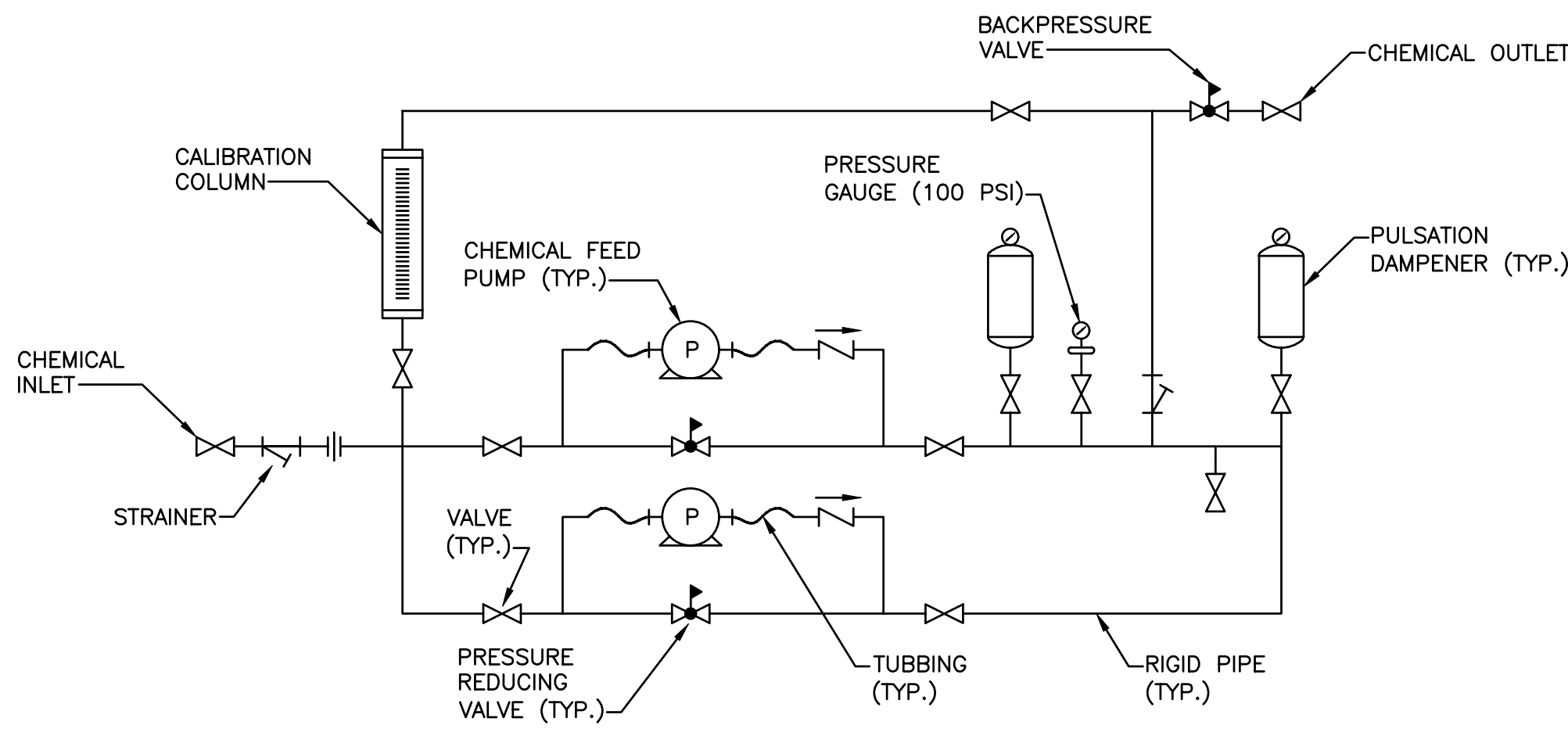
B MASONRY SLEEVE
99-ASM5.2 NO SCALE



C SCUPPER
99-ASM5.2 NO SCALE



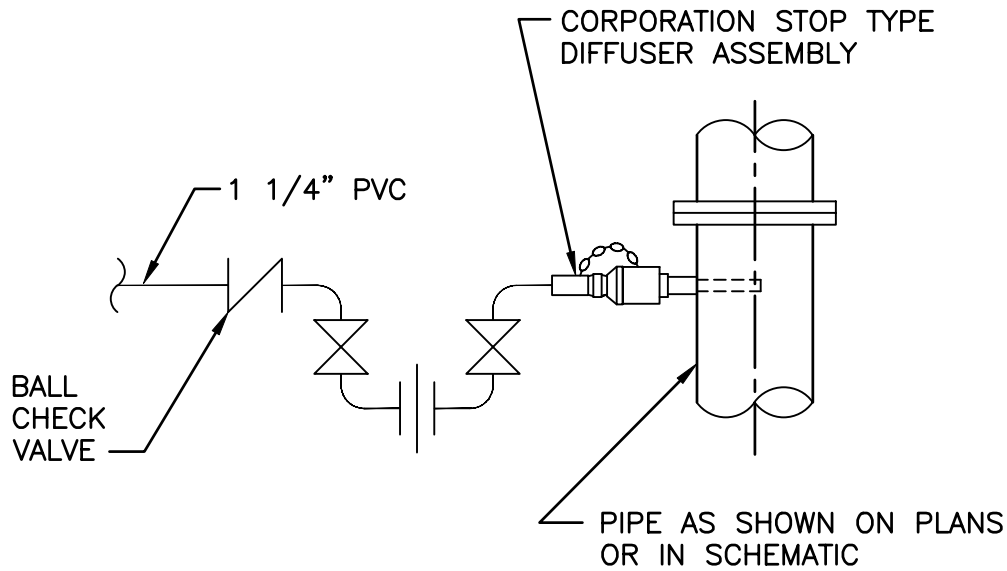
D WELL HEAD (LINE-SHAFT PUMP)
99-ASM5.2 NO SCALE



*PIPING, UNION, SEAL MATERIALS, AND TUBING CONNECTIONS SHALL BE SELECTED BY EQUIPMENT SUPPLIER AND BE COMPATIBLE WITH CHEMICALS USED.

*CALIBRATION COLUMN SHALL BE PVC AND SIZED BY EQUIPMENT SUPPLIER BASED ON ACTUAL FLOW ANTICIPATED.

E CHEMICAL FEED SKID
99-ASM5.2 NO SCALE



F CORPORATION STOP
99-ASM5.2 NO SCALE

SCHEDULES AND DETAILS

ARCHITECTURAL/STRUCTURAL/MECHANICAL

DETAILS-2

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS

CITY OF STEVENS POINT

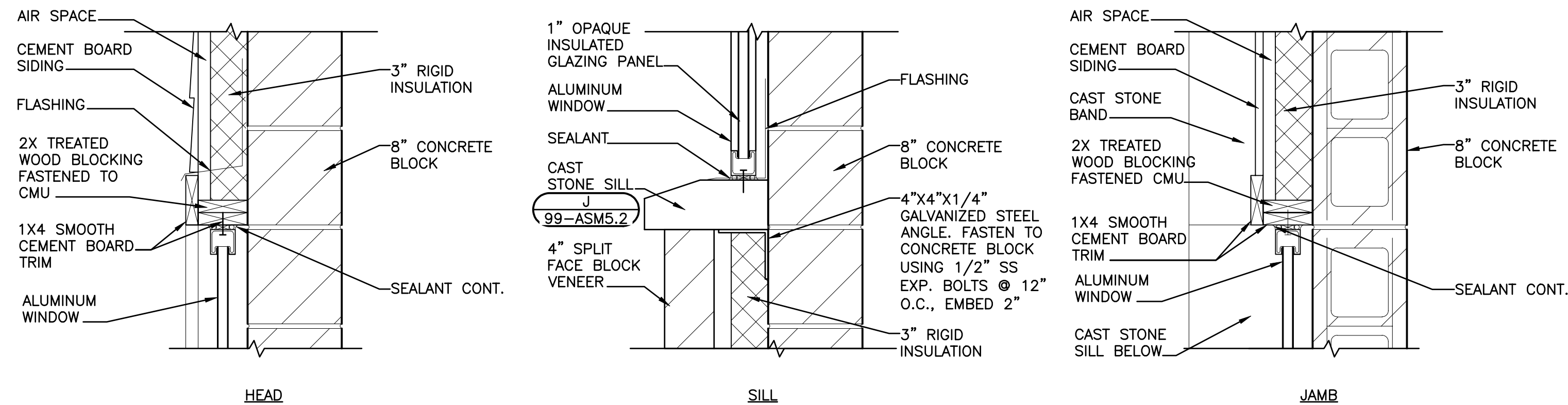
PORTAGE COUNTY, WISCONSIN

JOB NO.
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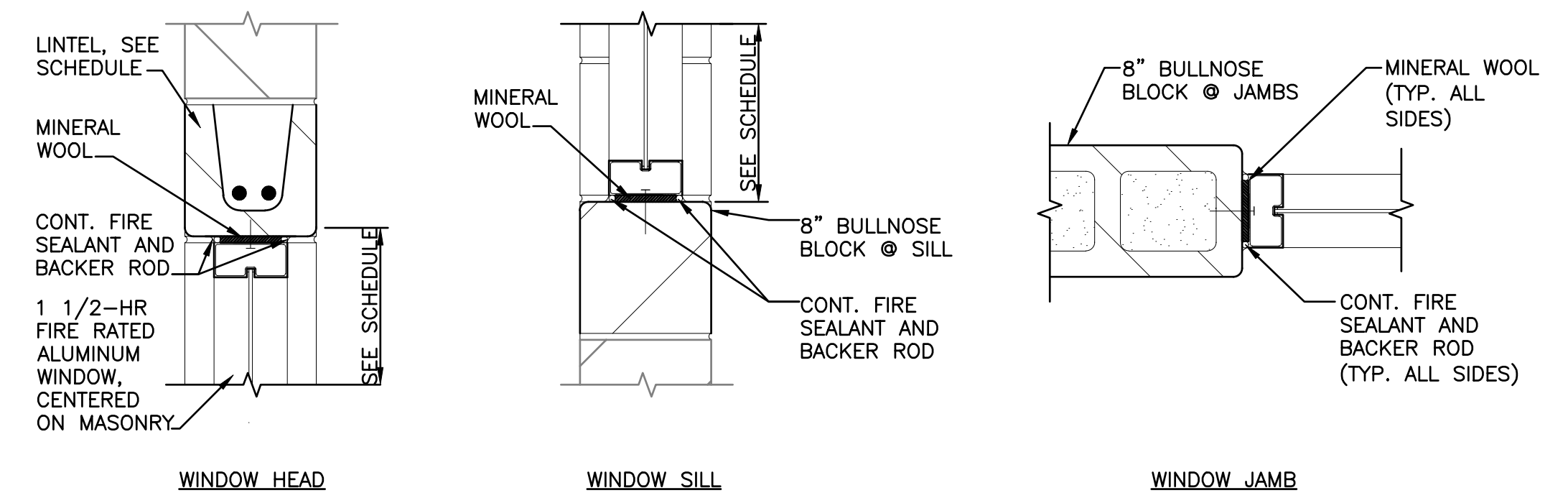
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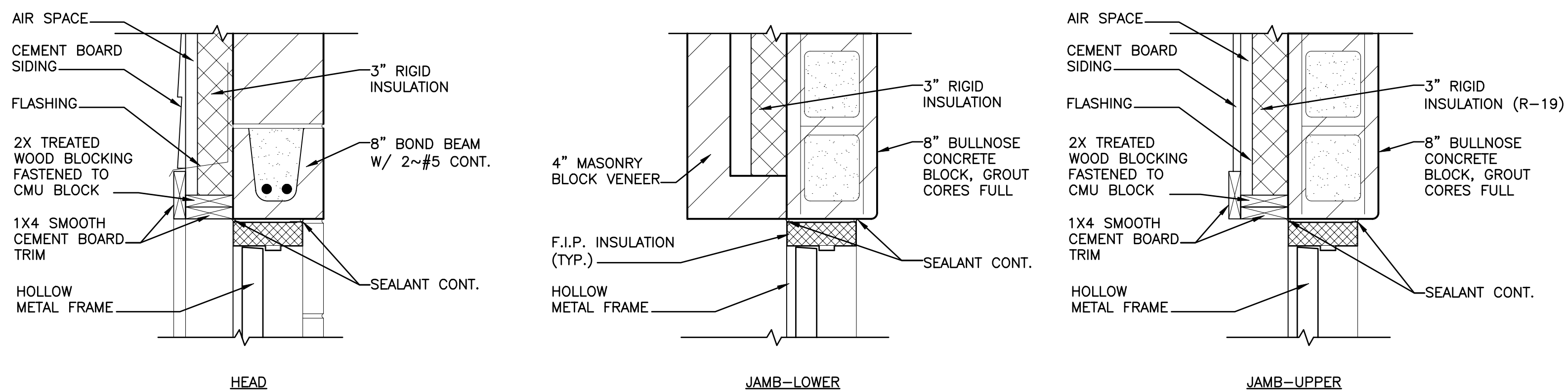
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99-ASM5.2



99-ASM5.3 **EXTERIOR WINDOW DETAILS**



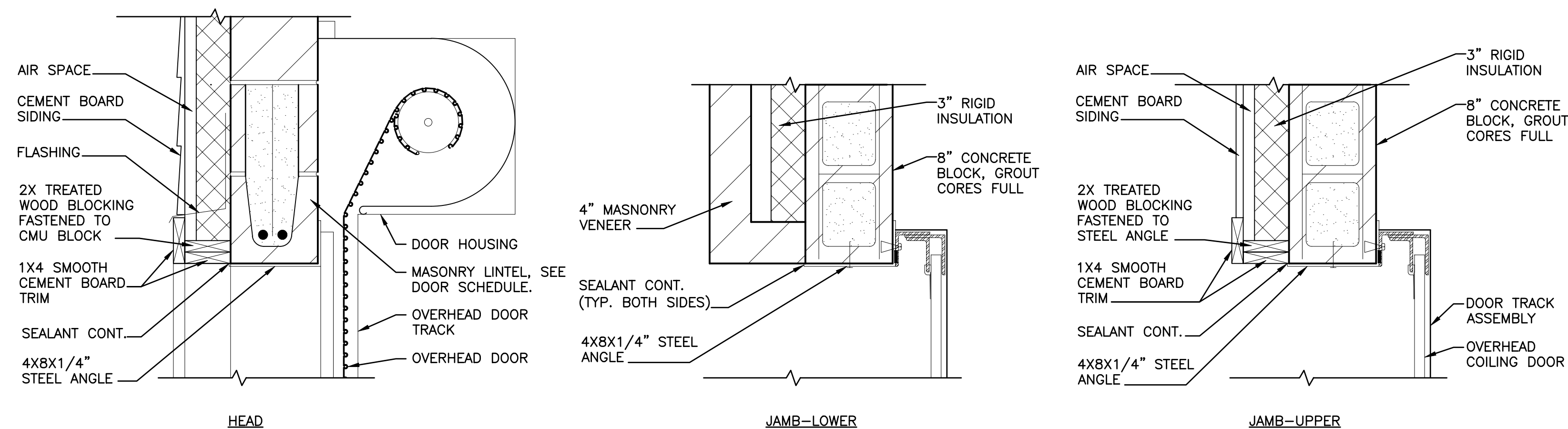
B INTERIOR FIRE RATED WINDOW
99-ASM5.3 1 1/2"=1'-0"



C
99-ASM5.3

EXTERIOR DOOR DETAILS

0 3" 6" 1'



D OVERHEAD DOOR DETAIL
99-ASM5.3

[illegible]

SCHEDULES AND DETAILS
ARCHITECTURAL/STRUCTURAL/MECHANICAL
DETAILS-3

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

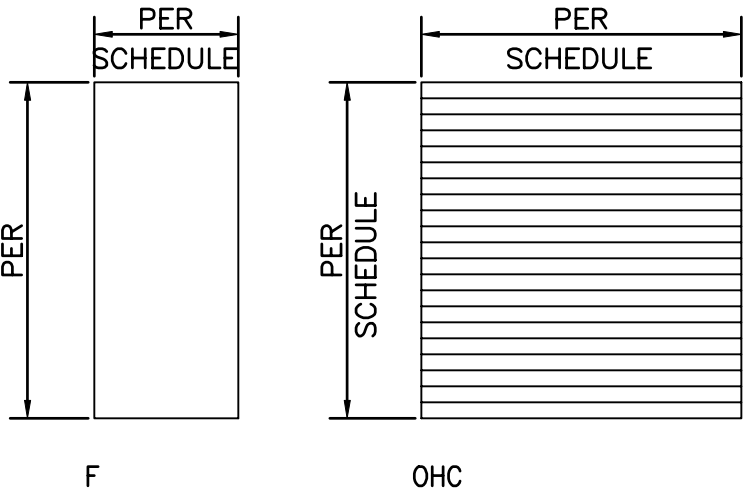
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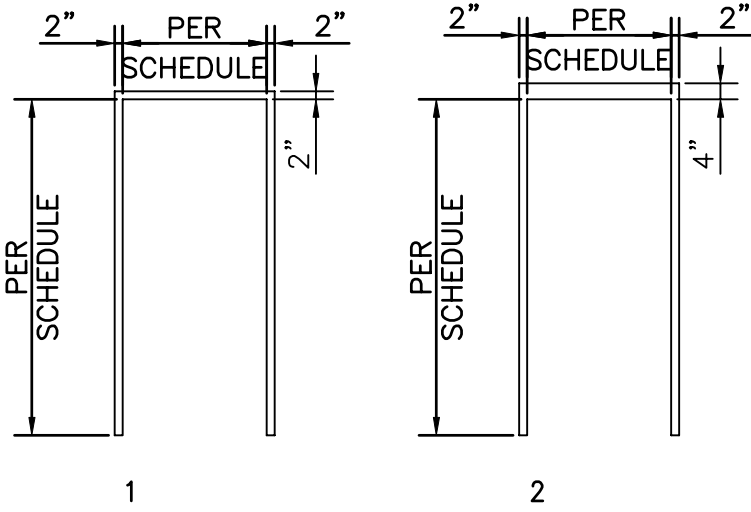


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99-ASM5.3

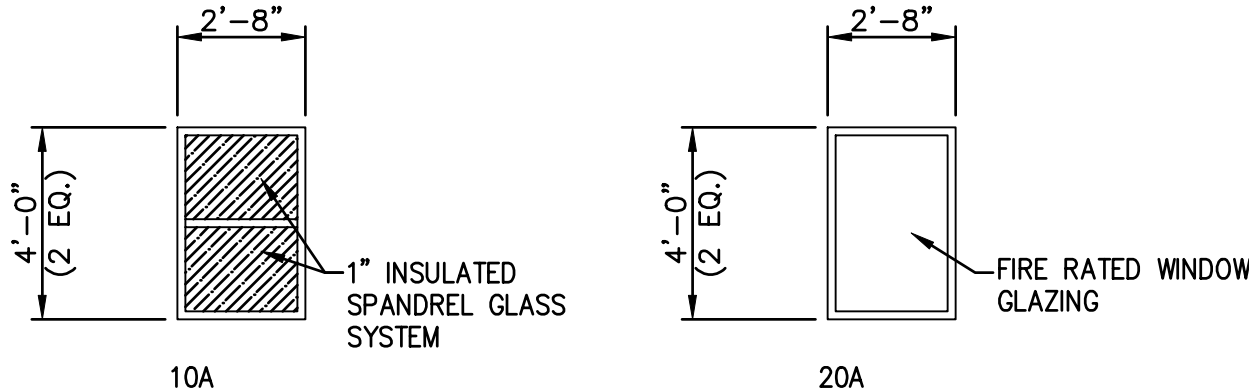
PERSONNEL DOOR SCHEDULE																	
DOOR NUMBER	DOOR						FRAME		LABEL	HARDWARE GROUP		LINTEL	DETAILS			NOTES	
	SIZE	MATERIAL	TYPE		SWING		TYPE	MATERIAL		ACTIVE	INACTIVE	TYPE	HEAD	JAMB	SILL		
			ACTIVE	INACTIVE	ACTIVE	INACTIVE											
10 - WELL HOUSE NO.12 WELL HOUSE																	
10101A	6'-8"x7'-4"	ISTL	OHC		--		--	STL	--	MANUAL		B-2	D/99-ASM5.3	L/99-ASM5.1	--		
10101B	3'-0"x7'-0"	ISTL	F	--	RHR	--	2	STL	--	1	--	B-1	C/99-ASM5.3	L/99-ASM5.1	--		
LEGEND:																	
	MATERIAL				TYPE					SWING							
	ISTL	=	STEEL (INSULATED)		F	=	FLUSH		LH	=	LEFT HAND						
	STL	=	STEEL		HG	=	HALF GLASS		RH	=	RIGHT HAND						
					NG	=	NARROW GLASS		LHR	=	LEFT HAND REVERSE						
									RHR	=	RIGHT HAND REVERSE						
NOTES:																	



DOOR ELEVATIONS
NO SCALE



FRAME TYPES
NO SCALE



WINDOW TYPES
NO SCALE

ROOM FINISH SCHEDULE										
ROOM NO.	ROOM NAME	FLOOR	BASE	N. WALL	E. WALL	S. WALL	W. WALL	CEILING		NOTES
								TYPE	HEIGHT	
10 - WELL NO. 12 WELL HOUSE										
10101	PUMP ROOM	F1	--	W1	W1	W1	W1	C1	10'-0"	
20 - WATER TREATMENT BUILDING										
20101	FILTER ROOM	--	--	W2	W2	W2	W2	C2	18'-0"	
20102	CONTROL ROOM	--	--	W2	W2	W2	W2	C2	10'-0"	
20103	PERMANGANATE ROOM	F2	--	W2	W2	W2	W2	C2	10'-0"	4
20104	ELECTRICAL ROOM	--	--	W2	W2	W2	W2	C2	10'-0"	
20105	FLUORIDE ROOM	F2	--	W2	W2	W2	W2	C2	10'-0"	4
20106	WELL NO.4 PUMP ROOM	--	--	W2	W2	W2	W2	C2	10'-0"	1,2,3
20107	HALLWAY	--	--	W2	W2	W2	W2	C2	10'-0"	
20108	POLYPHOSPHATE ROOM	F2	--	W2	W2	W2	W2	C2	10'-0"	
20109	CHLORINE ROOM	--	--	W2	W2	W2	W2	C2	10'-0"	4
20110	HIGH SERVICE PUMP ROOM	--	--	W2	W2	W2	W2	C2	10'-0"	
20111	RESTROOM	--	--	W2	W2	W2	W2	C2	10'-0"	
20112	JANITOR ROOM	--	--	W2	W2	W2	W2	C2	10'-0"	
20113	STAIR	--	--	W2	W2	W2	W2	C2	30'-8"	
20201	ACCESS ROOM	--	--	W2	W2	W2	W2	C3	10'-4"	
20202	AERATION ROOM	--	--	W2	W2	W2	W2	C3	17'-4"	
LEGEND:										
FLOOR		BASE		WALL		CEILING				
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION			
F1	SEALED CONCRETE			W1	PAINT CONCRETE BLOCK	C1	PAINT PRECAST PLANK			
F2	CHEMICAL RESISTANT COATING			W2	PAINT EXIST. CMU BLOCK	C2	PAINT EXISTING PRECAST PLANK			
						C3	EXISTING METAL SOFFIT PANEL			
NOTES:										
1. TUCK POINT LOCAL AREAS OF CRACKED MASONRY JOINTS.										
2. RECAULK AND SEAL JOINT BETWEEN MASONRY WALL AND PRECAST PLANK CEILING AT PERIMETER OF ROOM.										
3. EPOXY INJECT LOCAL AREAS OF CRACKED CONCRETE FLOOR.										
4. PROVIDE CHEMICAL RESISTANT COATING ON FLOOR SLAB AND INSIDE FACE OR WALL IN CONTAINMENT AREA. REMOVE EXISTING FLOOR COATING AND BASE.										

WINDOW SCHEDULE									
WINDOW DESIGNATION	SIZE (W x H)	SILL ELEVATION	FRAME MATERIAL	GLAZING TYPE	TYPE	LABEL	SILL / JAMB / HEAD DETAILS	LINTEL TYPE	NOTES
10A	2'-8"x4'-0"	3'-4"	AL	1" INSUL. GLASS	FIXED	--	A/99-ASM5.3	--	2
20A	2'-8"x4'-0"	3'-4"	AL	FIRE RATED	FIXED	2-HR	B/99-ASM5.3	B-1	1,3
LEGEND:									
AL = ALUMINUM									
NOTES:									
1. SEE DETAIL A/99-AS5.2 FOR LINTEL DETAIL INFORMATION.									
2. PROVIDE 1" INSULATED SPANDREL GLAZING.									
3. PROVIDE 2-HR. FIRE RATED WINDOW ASSEMBLY AND GLAZING.									

SCHEDULES AND DETAILS
ARCHITECTURAL/STRUCTURAL/MECHANICAL
SCHEDULES-1
WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015

PROJECT MGR.
MIKE FORSLUND


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99-ASM6.1

STRUCTURAL DESIGN CRITERIA		Structure 10 Well No. 12 Well House
DESIGN CODES	BUILDING CODE	IBC 2021
	CONCRETE DESIGN CODE	ACI 318-19
	MASONRY DESIGN CODE	TMS 402/602-16
	OCCUPANCY CATEGORY	IV
FLOOR LIVE LOAD	UNIFORMLY DISTRIBUTED (PSF)	100
	CONCENTRATED (LBS)	EQUIPMENT OPERATING WEIGHTS VARY
	IMPACT	FROM EQUIP. MFR.
	REDUCTION	PER IBC CODE
ROOF LIVE LOAD	MINIMUM ROOF LIVE LOAD (PSF)	20
ROOF SNOW LOAD	GROUND SNOW LOAD (P _g) (PSF)	50
	SNOW EXPOSURE FACTOR (C _e)	1.0
	SNOW LOAD IMPORTANCE FACTOR (I _s)	1.2
	THERMAL FACTOR (C _t) -	1.0
WIND LOAD	UNIFORM ROOF SNOW LOAD	42
	BALANCED (SLOPED) ROOF SNOW LOAD (P _s)	42
	BASIC 3-SECOND GUST WIND SPEED (MPH)	119
	WIND EXPOSURE	C
EARTHQUAKE DESIGN DATA	INTERNAL PRESSURE COEFFICIENT (GC _{pi})	0.18
	COMPONENTS AND CLADDING DESIGN WIND PRESSURE	PER IBC CODE
	SEISMIC IMPORTANCE FACTOR (I _e)	1.50
	SITE CLASS	E
	SPECTRAL RESPONSE	S _{D5} 0.079
	COEFFICIENTS	S _{D1} 0.1
	SEISMIC DESIGN CATEGORY	C
	BASIC SEISMIC FORCE RESISTING SYSTEM	ORDINARY REINFORCED MASONRY SHEAR WALLS
	RESPONSE MODIFICATION COEFFICIENT (R)	2
	DESIGN BASE SHEAR	0.076 W
	ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE ANALYSIS
OTHER LOADS	ALLOWABLE NET SOIL BEARING PRESSURE	2500 PSF

MINIMUM LAP LENGTHS FOR REINFORCING BARS				
BAR SIZE	WALLS		SLABS	
	VERT. BARS	HORIZ. BARS	TOP MAT BARS	BOTTOM MAT BARS
#4	1'-6"	1'-10"	1'-10"	1'-6"
#5	1'-9"	2'-2"	2'-2"	1'-9"
#6	2'-0"	2'-7"	2'-7"	2'-0"
#7	2'-11"	3'-8"	3'-8"	2'-11"
#8	3'-3"	4'-2"	4'-2"	3'-3"
#9	4'-0"	5'-2"	5'-2"	4'-0"
#10	4'-11"	6'-4"	6'-4"	4'-11"
#11	5'-10"	7'-8"	7'-8"	5'-10"
NOTES:				
1. WHERE TWO BARS OF DIFFERENT SIZE ARE LAPPED, USE LAP LENGTH FOR SMALLER BAR.				
2. USE LAP LENGTHS IN THIS TABLE WHERE LAP LENGTH IS NOT SHOWN ON DRAWING.				
3. TABLE DOES NOT APPLY FOR BEAMS AND COLUMNS.				

CLEAR COVER TO REINFORCING BARS	
ITEM	MINIMUM CLEAR COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH, LIQUID, OR WEATHER	2"
SLABS, WALLS, OR JOISTS NOT EXPOSED TO WEATHER, LIQUID, OR IN CONTACT WITH GROUND	1"
BEAMS AND COLUMNS NOT EXPOSED TO WEATHER, LIQUID, OR IN CONTACT WITH GROUND	1 1/2"
NOTES:	
1. CLEAR COVER IS MEASURED FROM MEMBER FACE TO NEAREST EDGE OF REINFORCING BAR	
2. CLEAR COVER FOR BEAMS AND COLUMNS IS MEASURED TO NEAREST EDGE OF STIRRUPS.	
3. FOR WALLS AND SLABS WITH SINGLE MAT OF REINFORCING, PLACE REBAR WHERE SHOWN ON THE DRWGS. WHERE COVER IS NOT INDICATED, CENTER SINGLE MAT OF REINFORCING IN WALL OR SLAB.	

ALLOWABLE STRESSES AND LOADS	
MATERIAL	MATERIAL STRESS, DESIGNATION, OR ALLOWABLE LOAD
CIP CONCRETE	f _c ' = 4000 psi
CONCRETE BLOCK	f _m ' = 2500 psi
REINFORCING STEEL (GRADE 60)	F _y = 60 ksi
STRUCTURAL STEEL	F _y = 36 ksi or 50 ksi
STRUCTURAL ALUMINUM (6061-T6)	F _y = 35 ksi
WELDING ELECTRODES	E70XX
ANCHOR BOLTS	ASTM F1554 GRADE 36
CONNECTION BOLTS	ASTM A325

MASONRY LAP LENGTHS FOR REINFORCING BARS		
BAR SIZE	8" CMU	12" CMU
#3	1'-3"	1'-3"
#4	1'-3"	1'-3"
#5	1'-9"	1'-3"
#6	3'-1"	2'-0"
#7	4'-2"	2'-8"
NOTES:		
1. USE LAP LENGTHS IN THIS TABLE UNLESS NOTED OTHERWISE ON DRAWINGS.		
2. TABLE DOES NOT APPLY FOR COLUMNS.		

LINTEL SCHEDULE			
LOCATION	OPENING TYPE	OPENING CLEAR WIDTH(S)	LINTEL TYPE
STRUCTURE 10 - WELL NO. 12 WELL HOUSE			
Pump Room West Wall	HVAC	2'-8"	B-1
Pump Room East Wall	HVAC	2'-0"	B-1
STRUCTURE 20 - WATER TREATMENT PLANT			
Electrical Room West Wall	HVAC	2'-0"	B-1
NOTES:			
1. SEE DOOR SCHEDULE FOR LINTELS AT DOORS.			
2. PROVIDE LINTELS PER DETAIL F/99-ASM5.02.			

GENERAL NOTES:

- FOR DOOR, WINDOW, AND FINISH SCHEDULES REFER TO DRAWING 99-ASM6.1.
- PROVIDE LINTELS AS PER DOOR AND WINDOW SCHEDULES ON DRAWING 99-ASM6.1.
- SEE

B99-ASM5.1

 FOR FILL AND BACKFILL REQUIREMENTS.
- PROVIDE MINIMUM LAP LENGTHS AS SHOWN ON THE LAP LENGTH SCHEDULE ON THIS DRAWING.
- PROVIDE MINIMUM CLEAR COVER OVER REINFORCING STEEL PER THE TABLE ON THIS DRAWING.
- HORIZONTAL REINFORCING BARS IN WALLS SHALL BE PLACED OUTSIDE OF THE VERTICAL BARS IN WALLS UNLESS SHOWN OTHERWISE.
- RUN MASONRY VERTICAL REINFORCING FULL HEIGHT CENTERED IN CMU WALLS. LAP BARS PER SCHEDULE THIS SHEET. PROVIDE ADHESIVE DOWELS EMBEDDED 6" INTO THE SLAB OR FOUNDATION WALL. EXTEND BARS 6" INTO THE BOND BEAM AT TOP OF WALL. GROUT ALL CELLS WITH REINFORCING STEEL FULL HEIGHT.
- WHERE ADHESIVE ANCHOR DOWELS ARE CALLED OUT ON DRAWINGS, ROUGHEN JOINT SURFACE TO 1/4" AMPLITUDE. PROVIDE BONDING AGENT AND EMBED DOWELS 5" MIN. INTO EXISTING CONCRETE UNLESS NOTED OTHERWISE.
- WHERE PIPING PASSES THROUGH MASONRY WALLS, PROVIDE MASONRY SLEEVE PER DETAIL

B99-ASM5.2

.
- SEE DETAIL

M99-ASM5.1

 FOR TYPICAL CONSTRUCTION JOINT.
- WHERE EXISTING EQUIPMENT OR CONCRETE IS REMOVED, BURN BACK EMBEDDED BOLTS OR REINFORCING STEEL 2" AND PATCH WITH NON-SHRINK GROUT.
- PROVIDE CORNER REINFORCING AT FOUNDATION WALLS PER DETAIL

G99-ASM5.1

.
- WHERE EXISTING MASONRY OPENINGS ARE TO BE PATCHED WITH NEW MASONRY, TOOTH IN NEW UNITS OR USE WIRE TIES @16" O.C. VERTICALLY TO MATCH JOINT REINFORCING. DRILL INTO EXISTING MASONRY W/ ADHESIVE ANCHORS, EMBED 4".
- FOR TYPICAL DOOR HEAD, JAMBS, AND SILL DETAILS, SEE DRAWING 99-ASM5.3.

SCHEDULES AND DETAILS
ARCHITECTURAL/STRUCTURAL/MECHANICAL
SCHEDULES-1
WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015

PROJECT MGR.
MIKE FORSLUND



STRAND
ASSOCIATES®

SHEET
49
99-ASM6.2

DISCHARGE PIPE

REDUCER

AIR GAP = 2 X "d"

4" A.F.F.

FINISHED FLOOR

FLOOR SLAB

A HUB DRAIN (HD-1)

99-P5.1 NO SCALE

STRAINER, FLUSH WITH FLOOR

FINISHED FLOOR (SEE ARCHITECTURAL FOR FLOOR SLOPES)

ADJUSTABLE DRAIN HEAD

DRAIN BODY

INSIDE CAULK

PIPE

DRAIN SUPPORT STRAP

B FLOOR DRAIN - FD #1

99-P5.1 NO SCALE

COVER

FIN. FLOOR

CLEANOUT PLUG AND BODY. SEE SPECS.

ADJUSTING COLLAR

RISER

1/8 BEND FULL SIZE, 4" MAX.

PLUG IF END OF LINE

FLOW

C FLOOR CLEANOUT

99-P5.1 NO SCALE

3/8" TYPE 304 STAINLESS STEEL THREADED ROD AT ALL FOUR CORNERS OF PLATE. ANCHOR TO WALL. PLATE SHALL STAND OFF WALL DISTANCE REQUIRED FOR CONNECTION TO HOSE BIBB. PROVIDE STAINLESS STEEL FASTENERS ON FRONT AND BACK OF PLATE TO SECURE IN PLACE.

COLD WATER PIPE (INSULATE PER SPECIFICATIONS)

PIPE SUPPORT FROM WALL

HOSE BIBB

18" AFF

PROVIDE 1/4" TYPE 304 STAINLESS STEEL PLATE FOR MOUNTING HOSE BIBB. USE STAINLESS STEEL FASTENERS FOR HOSE BIBB INSTALLATION. PLATE SHALL BE 4"x6" MINIMUM.

D INTERIOR HOSE BIBB DETAIL

99-P5.1 NO SCALE

* CONCRETE BLOCK

* BRICK

INSULATED WATER LINE

WALL HYDRANT. ORDER FOR WALL THICKNESS

1'-6"

GRADE

* WALL CONSTRUCTION MAY VARY

E EXTERIOR HOSE BIBB

99-P5.1 NO SCALE

OVERHEAD SYSTEM

WATER FLOW SWITCH(ES)

SYSTEM GAUGES

MAIN DRAIN VALVE

DOUBLE CHECK ASSEMBLY APPROVED FOR VERTICAL INSTALLATION

CHECK VALVE AND PIPING TO F.D.C.

TEST DRAIN TO EXTERIOR

WATER SUPPLY

GRATING

CONNECTS TO WATER MAIN IN TRENCH

NOTE: SUPPORT PIPING AS NECESSARY FROM FLOOR OR WALL.

F WATER/METER/SPRINKLER RISER

99-P5.1 NO SCALE

ALUMINUM FLASHING SLEEVE

SOLDER

ALUMINUM FLASHING NAIL TO PLYWOOD

METAL ROOF

PLYWOOD

NOTE: PENETRATIONS IN METAL ROOF PER MANUFACTURERS' DETAILS

G COLD PIPE ROOF PENETRATION

99-P5.1 NO SCALE

PIPE INSULATION

MASONRY WALL

PIPE INSULATION AS REQ'D.

CAULK (TYPICAL)

STAINLESS STEEL SLEEVE

H INSULATED PIPE PENETRATION DETAIL THRU MASONRY WALL

99-P5.1 NO SCALE

ESCUTCHEONS (TYP.)

UNINTERRUPTED PIPE INSULATION THROUGH WALL

CARRIER PIPE CENTER PIPE THRU SLEEVE

CALCIUM SILICATE INSULATION

CORE HOLE IN EXISTING WALL

POURED CONCRETE WALL

CALCIUM SILICATE GROUT

FIRE RESISTANT CAULK (TYP.)

O.D. OF INSUL + 1 IN. MIN.

STAINLESS STEEL SLEEVE, GROUT IN PLACE

CONCRETE BLOCK WALL

J PIPE FIRE RATED WALL PENETRATION

99-P5.1 NO SCALE

1 1/2" TW

1 1/2" TWR

RP-1

ET-1

BALL VALVE (NORMALLY CLOSED)

DRAIN VALVE

TMV

CHECK VALVE (TYP.)

1" HW

1" CW

1" TWR (TO WATER HEATER)

TEMPERATURE INDICATOR (TYP.)

CIRCUIT SETTER, BALANCE PER MFR RECOMMENDATIONS TO ACHIEVE 80°F TW OUTLET TEMPERATURE

NOTE: PROVIDE WALL MOUNTED SUPPORT STRUCTURE FOR MIXING VALVE ASSEMBLY.

K RECIRCULATION STATION DETAIL

99-P5.1 NO SCALE

BALL VALVE (TYP.)

THERMOMETER (TYP.)

A.S.M.E. APPROVED TEMPERATURE AND PRESSURE RELIEF VALVE

PIPE DISCHARGE TO FLOOR

WATER HEATER

UNION (TYP.)

TWR FROM RECIRCULATION STATION

HOT WATER TO FIXTURES

COLD WATER TO HEATER

L ELECTRIC WATER HEATER

99-P5.1 NO SCALE

SEAL TOP & BOTTOM W/ NONHARDENING SILICONE CONFORMING TO TTS-00230

PACK VOID BETWEEN PIPE & SLEEVE W/ HIGH TEMP. FIBER INSULATION CONFORMING W/HHI-521E TYPE 3 OR HHI-5588 FORM A AND FIRE CLASS E-84

FINISHED FLOOR

SCHEDULE 40 STEEL PIPE OR GALVANIZED SHEET METAL SLEEVE

EXISTING CONC. SLAB

GROUT WATERTIGHT

M PIPE SLAB PENETRATION

99-P5.1 NO SCALE

INSTANTANEOUS WATER HEATER SCHEDULE												
UNIT NO.	LOCATION	MANUFACTURER	MODEL NO.	NATURAL GAS HEATING SECTION			TEMP. RISE/FLOWRATE (F)/GPM	ELECTRICAL			UNIT WEIGHT (LBS.)	REMARKS
				INPUT (MBH)	MINIMUM GAS PRESSURE (in. w.c.)	MAXIMUM GAS PRESSURE (in. w.c.)		VOLTAGE	PHASE	FLA		
IWH-12	PUMP ROOM	RINNAI	CX199i	199	3.5	10.5	90/4.3	120	1	4	55	

HOT WATER RECIRCULATION PUMP SCHEDULE												
UNIT NO.	LOCATION	SERVICE	TYPE	BELL & GOSSETT MODEL NO.	DESIGN FLOWRATE (GPM)	DESIGN HEAD (FT. OF WATER)	MOTOR TYPE	ELECTRICAL				REMARKS
								VOLTS	PHASE	STARTER BY	DISCONNECT BY	
RP-1	FILTER ROOM	TWR	INLINE	E3 ECOCIRC	1	5.5	ECM	120	1	MFR	DIV. 26	

WATER HEATER (ELECTRIC) SCHEDULE										
UNIT NO.	LOCATION	A.O. SMITH MODEL NO.	SERVICE	HEATING CAPACITY (kW)	RECOVERY RATE (GAL/HR)	TEMPERATURE RISE (°F)	TANK CAPACITY (GAL)	ELECTRICAL		REMARKS
								VOLTAGE	PHASE	
WH-1	FILTER ROOM	DEN-120	HOT WATER	3	14	90	120	480	3	

EXPANSION TANK SCHEDULE				
UNIT NO.	SERVICE	BELL AND GOSSETT MODEL NO.	TANK VOLUME	REMARKS
ET-1	TEMPERED WATER LOOP	PT-5	2	

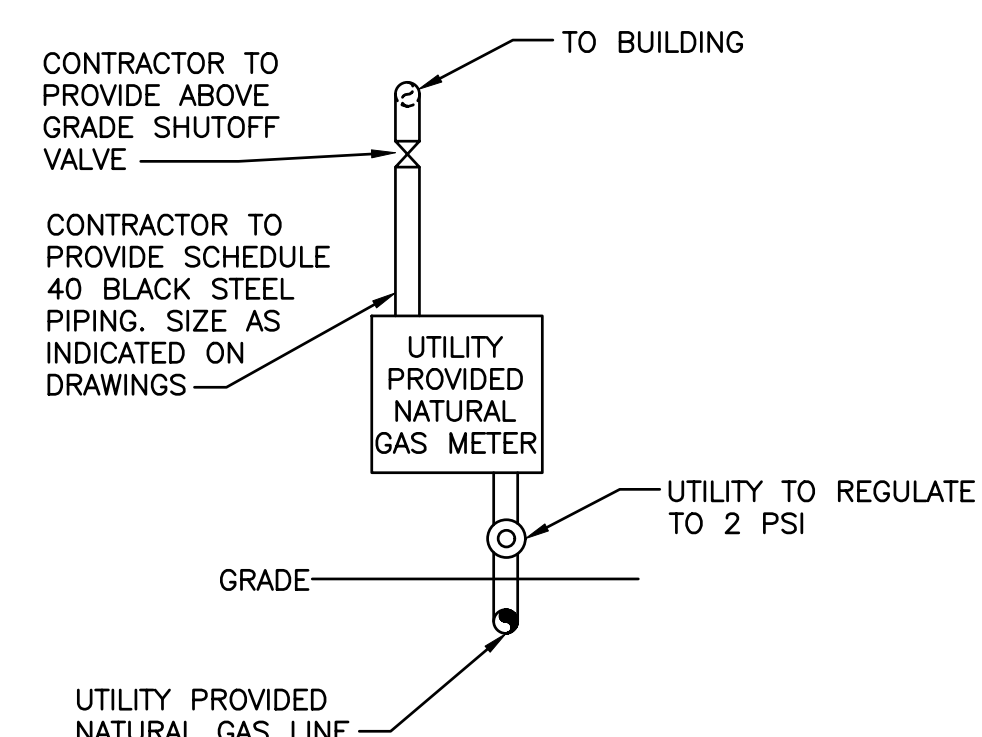
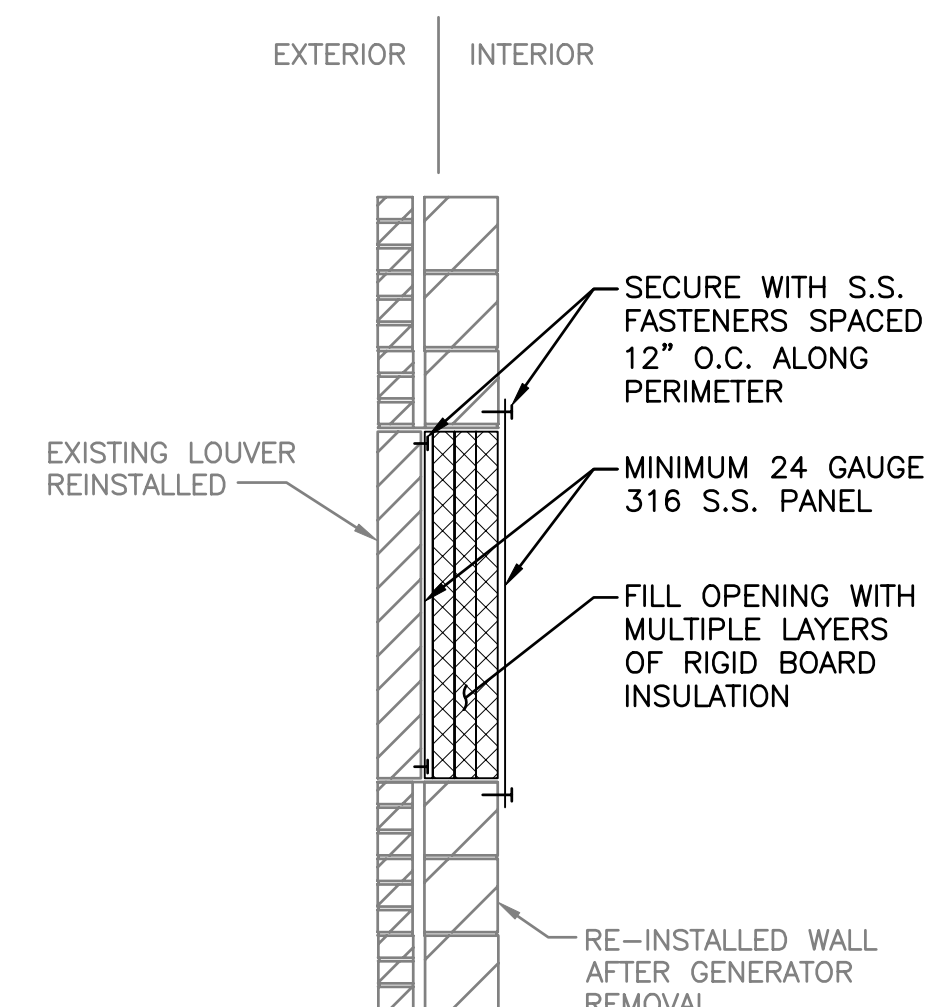
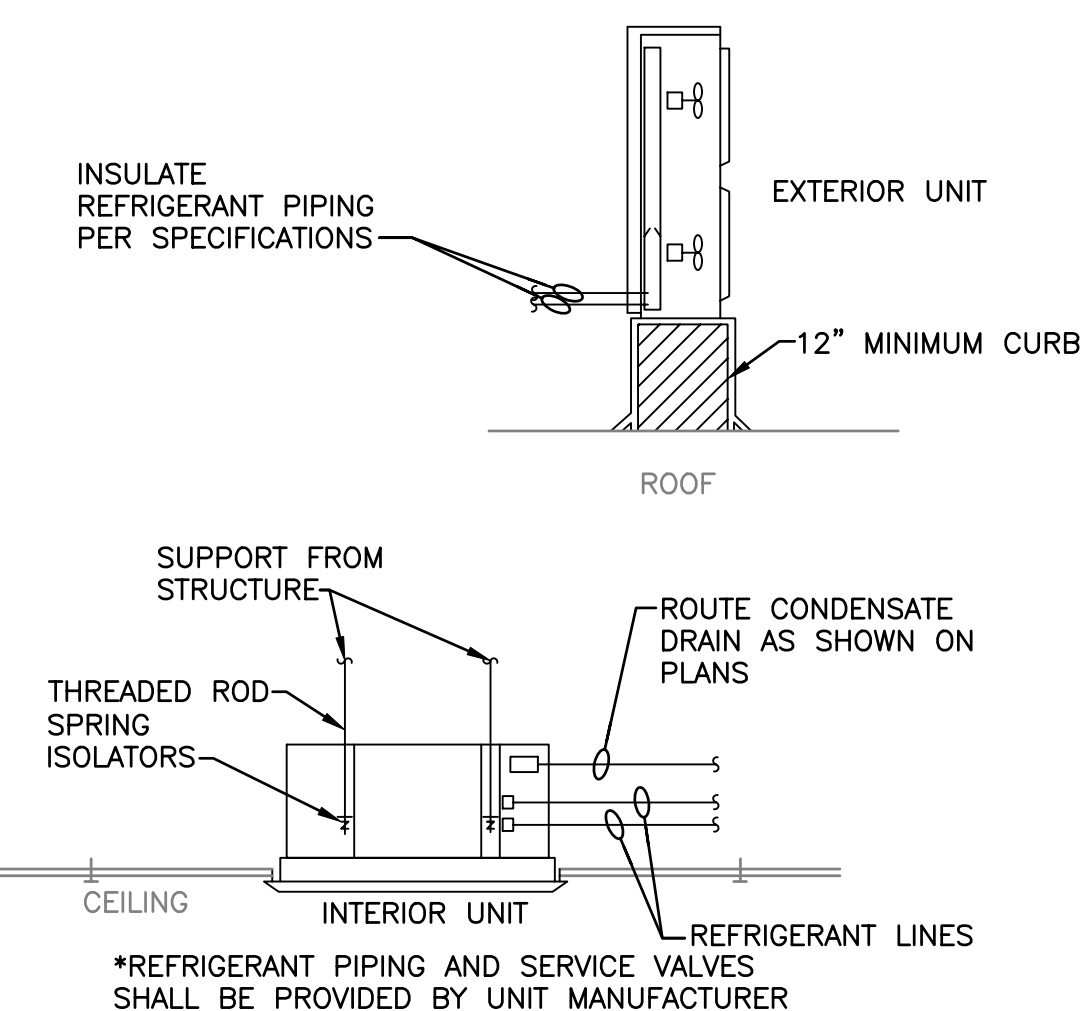
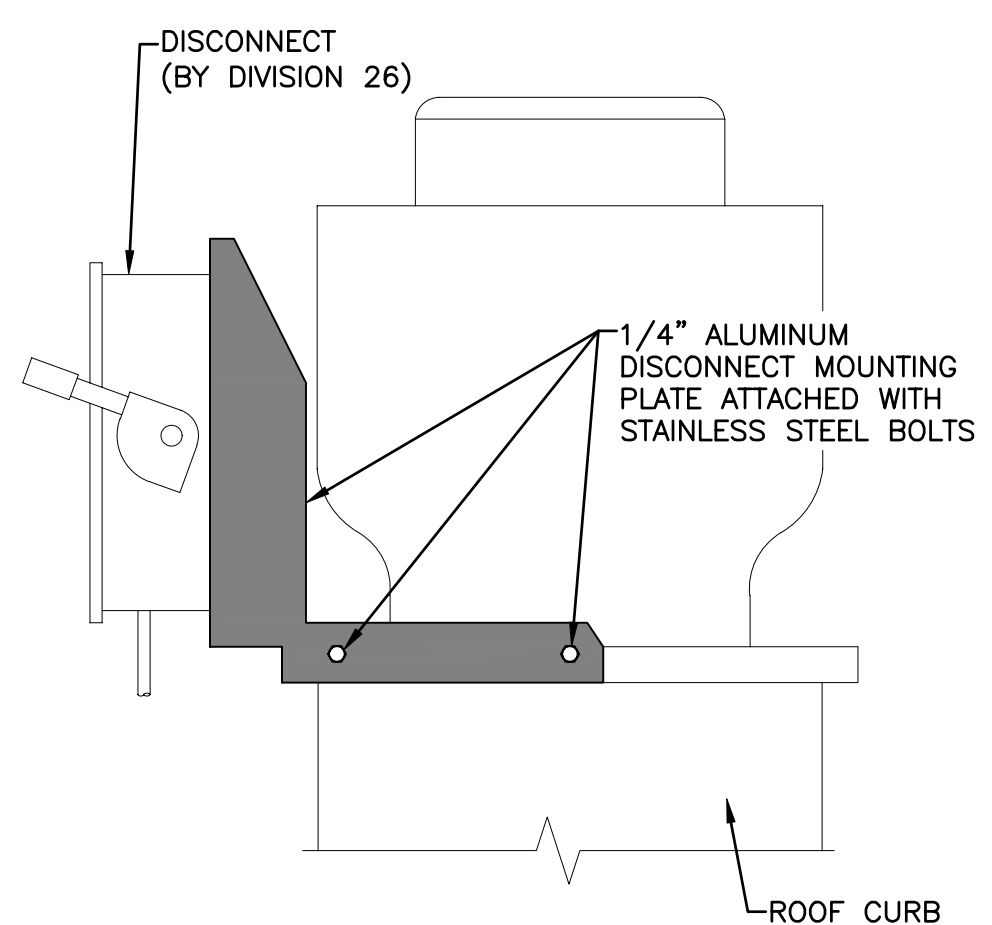
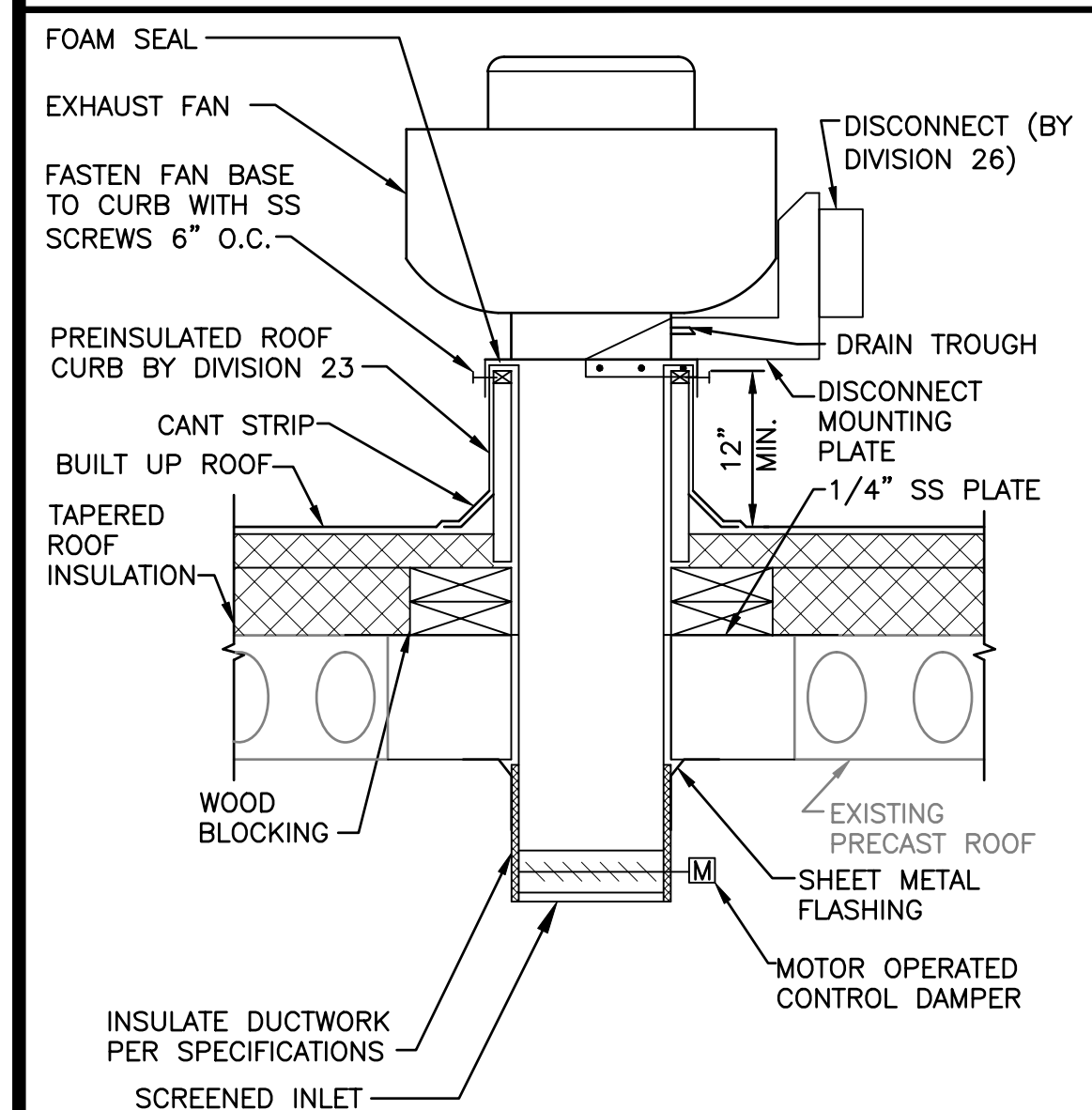
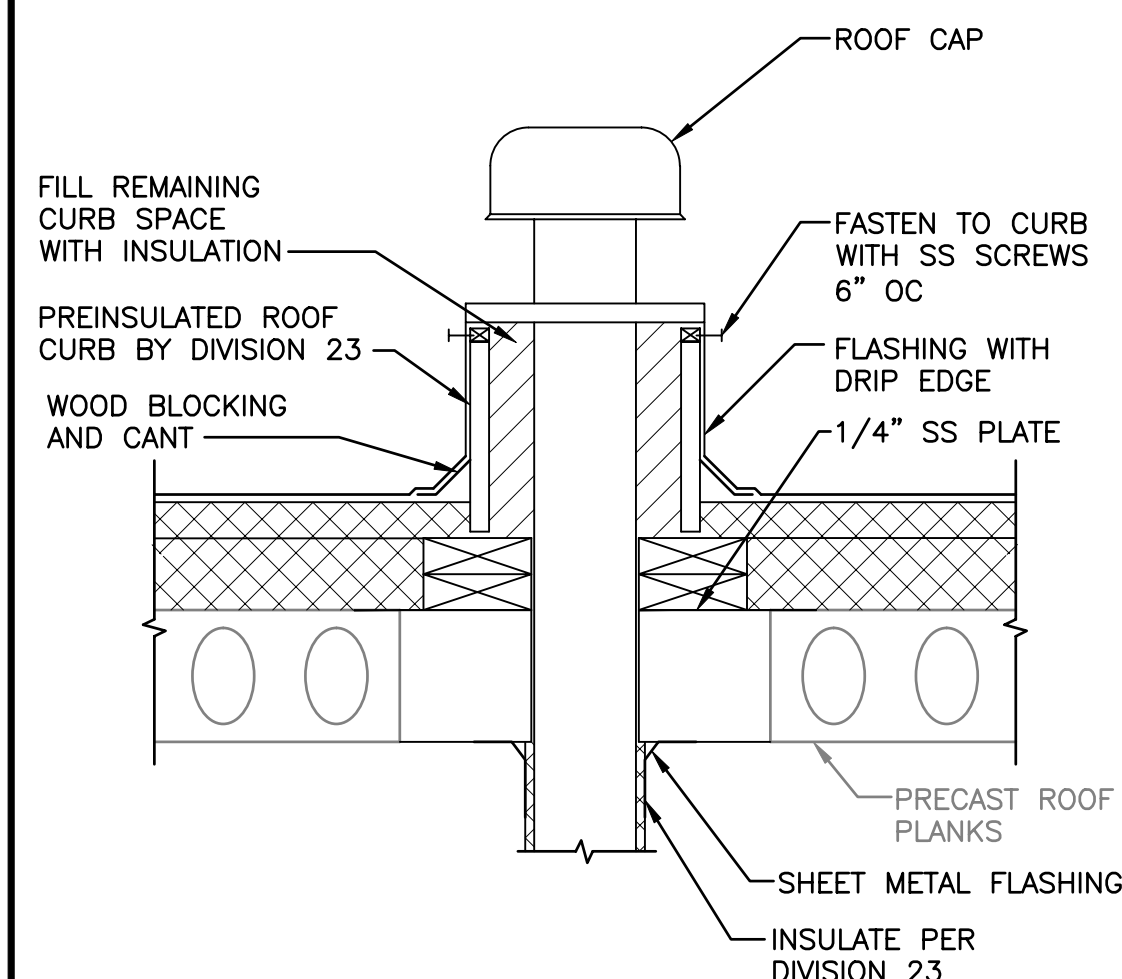
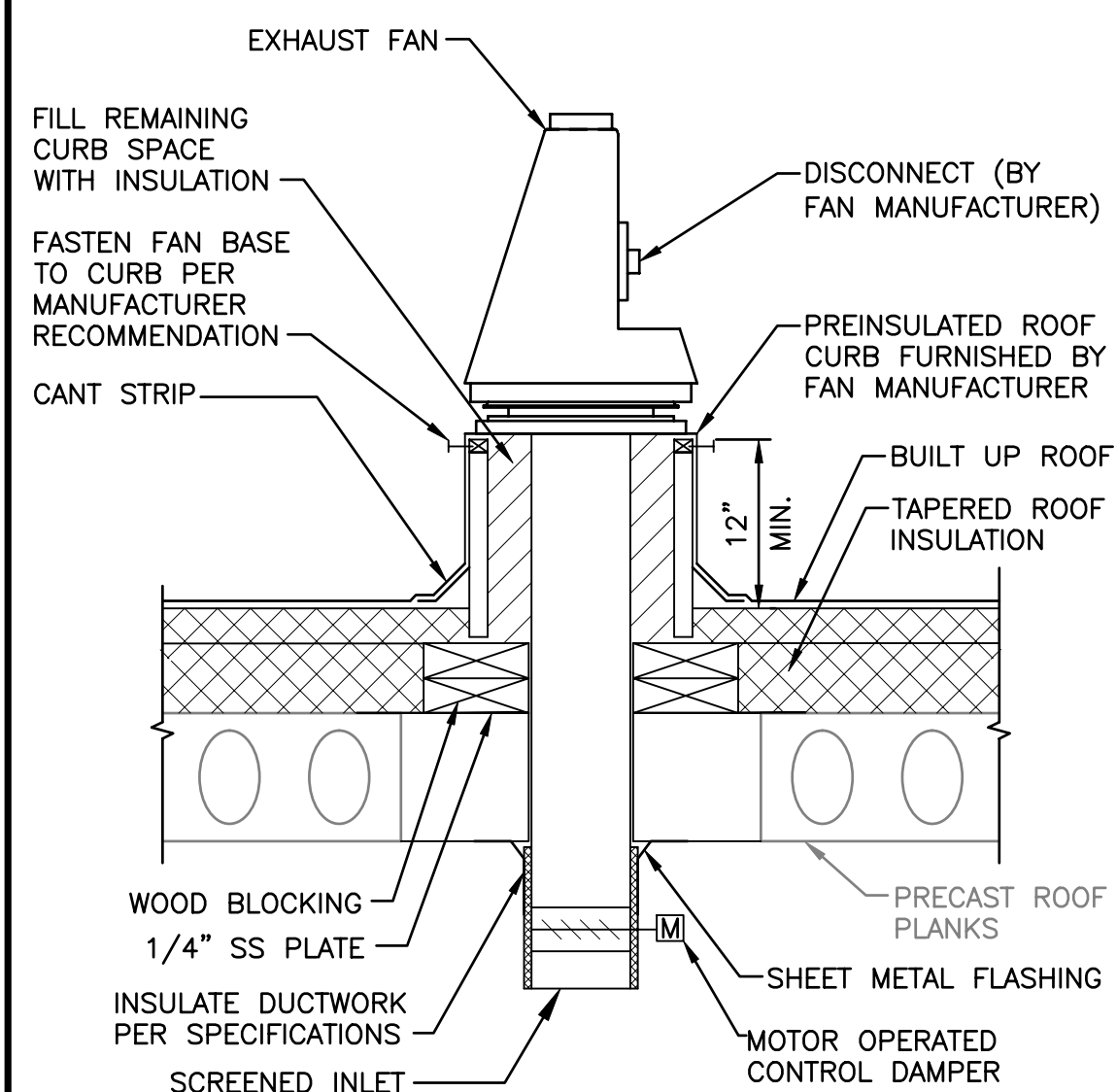
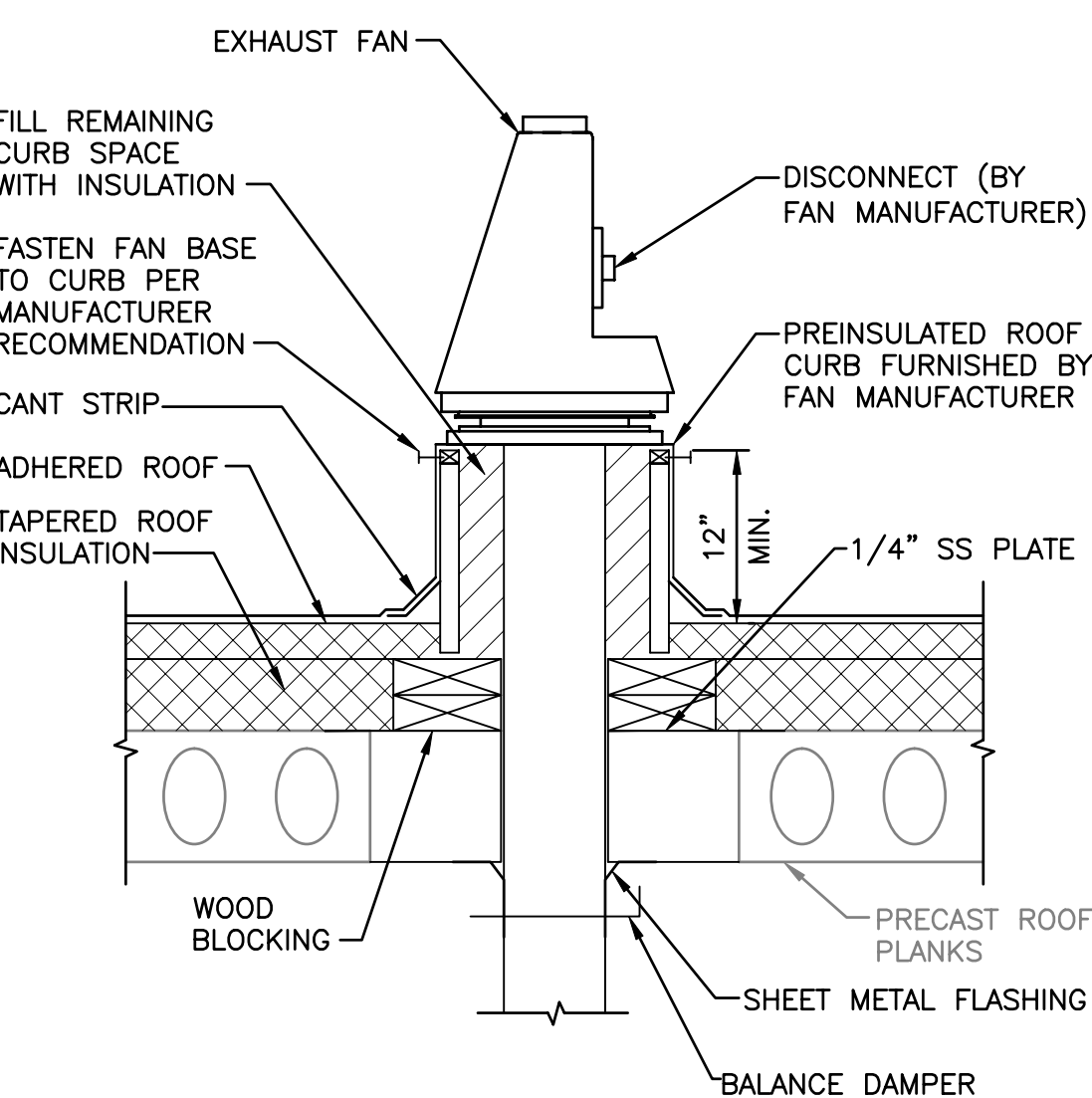
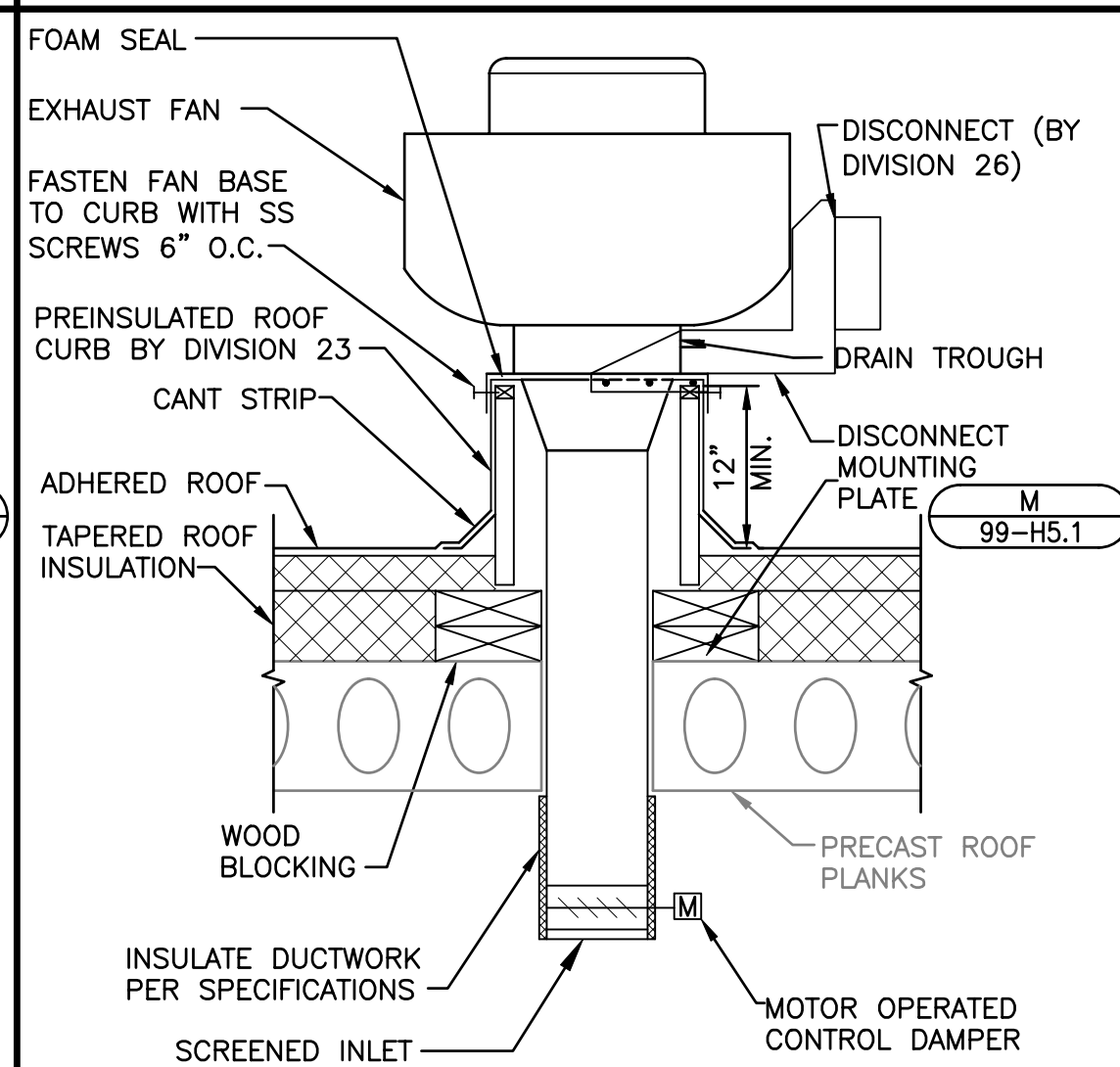
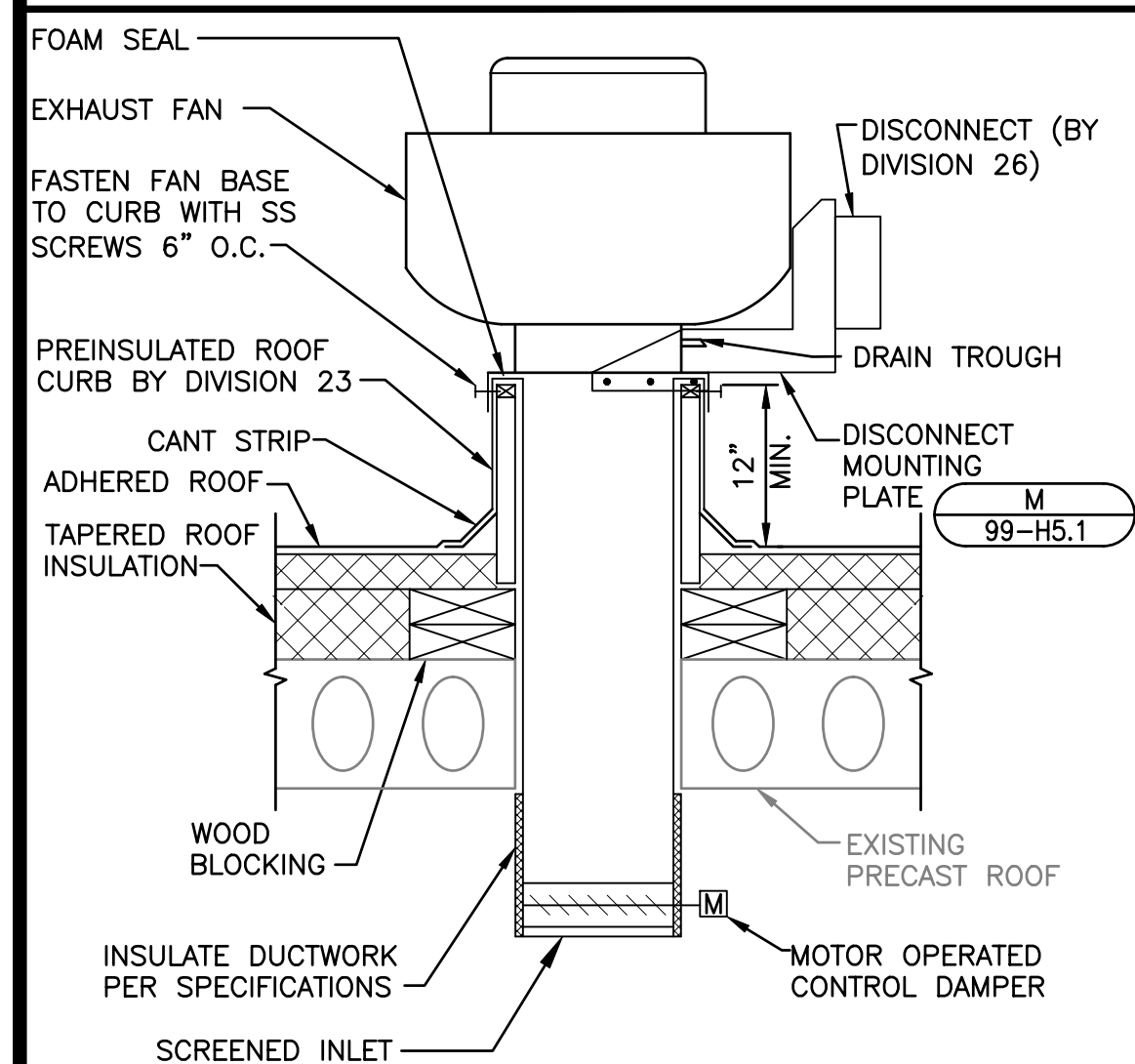
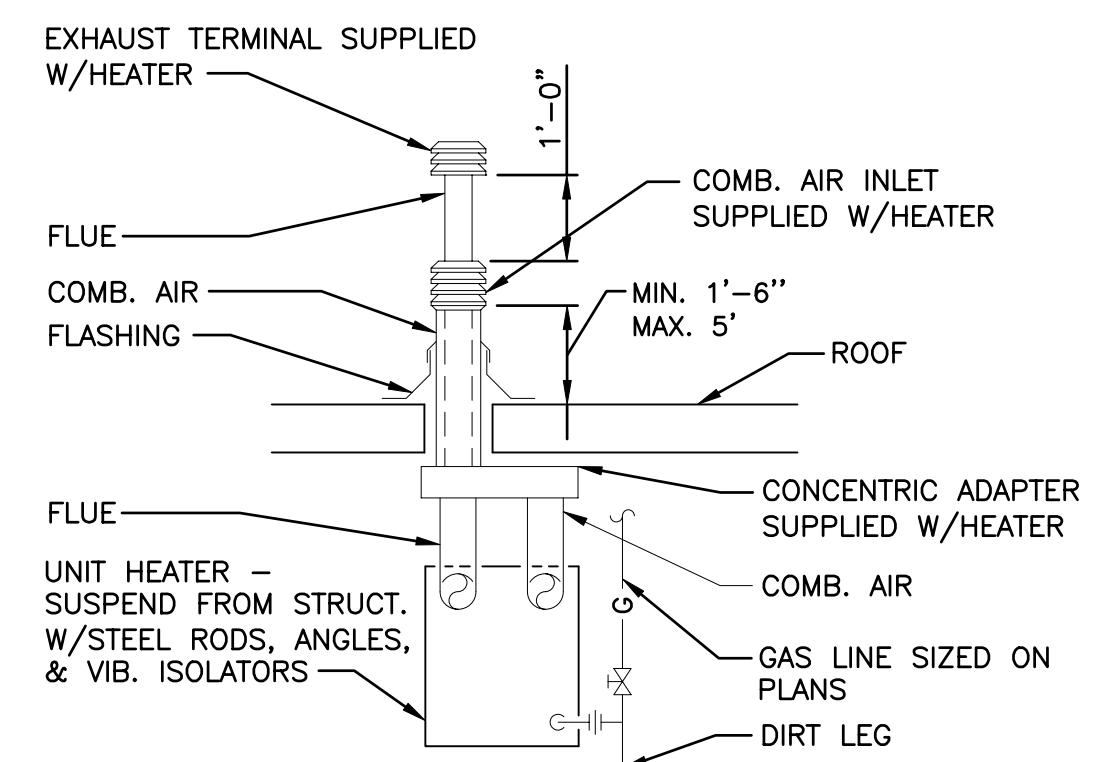
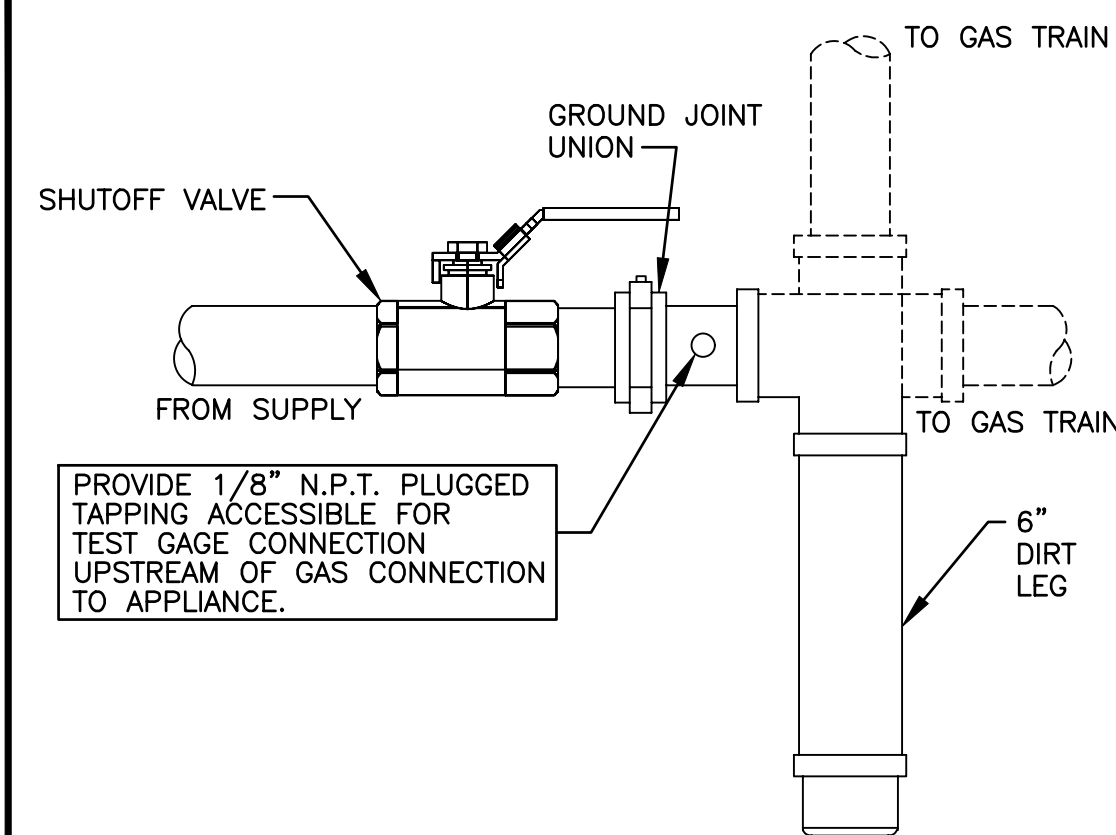
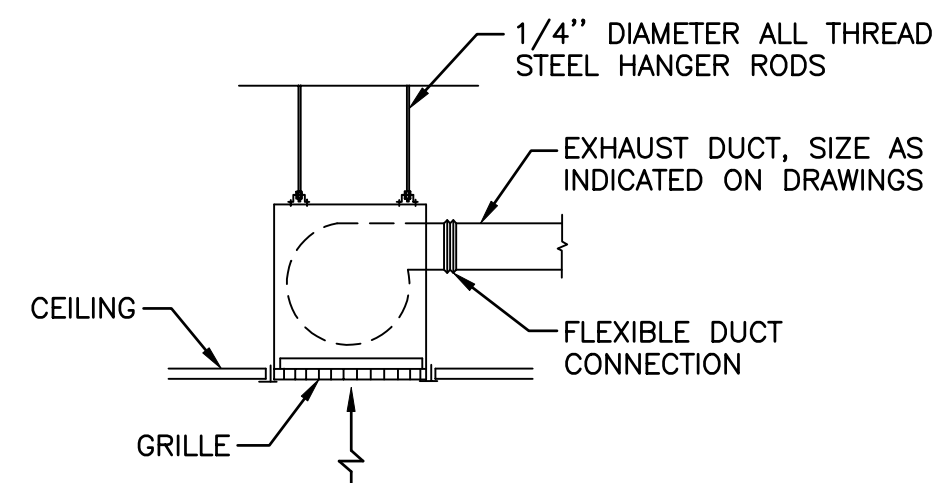
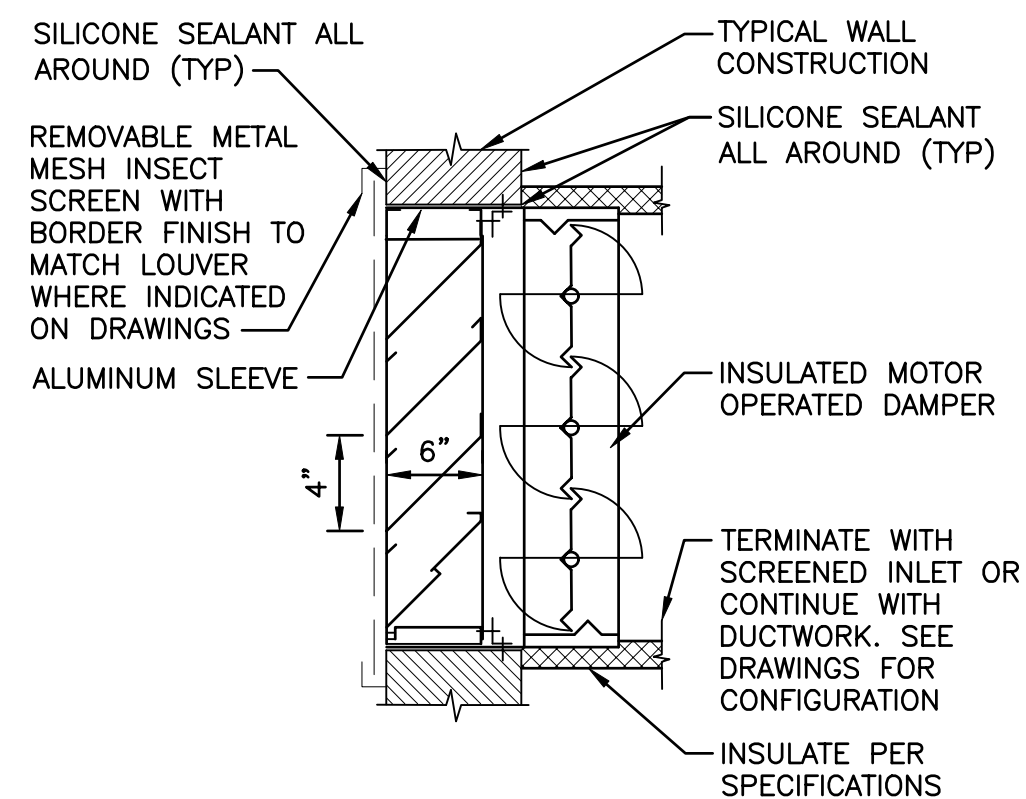
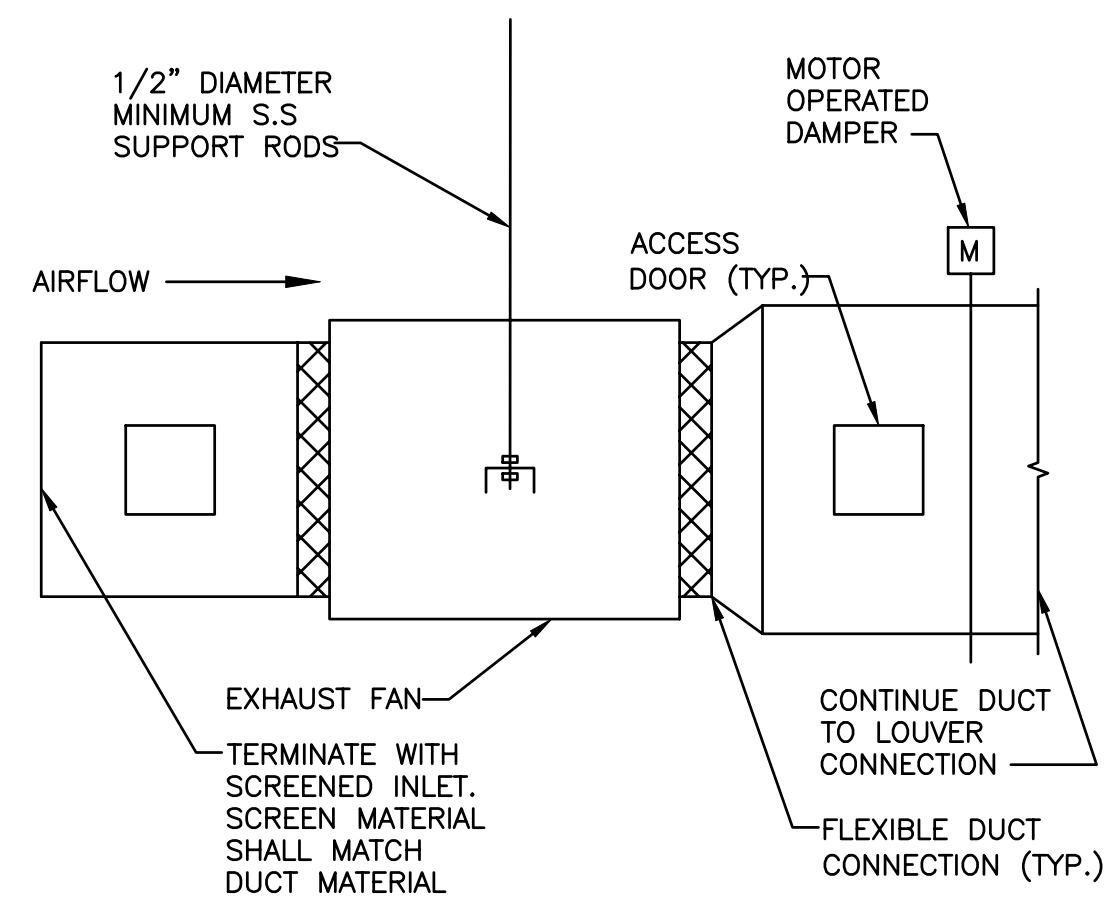
SCHEDULES AND DETAILS
PLUMBING SCHEDULES

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SHEET
51
99-P6.1

[illegible]

SCHEDULES AND DETAILS

HVAC DETAILS

**WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
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MIKE FORSLUND



SHEET
52
99-H5.1

FAN SCHEDULE																	
UNIT NO.	LOCATION	SERVICE	MANUFACTURER	MODEL NO.	AIRFLOW (CFM)	EXT. S.P. (IN. W.C.)	MOTOR SIZE (HP)	FAN TYPE	MOTOR TYPE	DRIVE	SOUND POWER (SONES)	ELECTRICAL				OPERATING WEIGHT (LBS.)	REMARKS
												VOLTAGE	PHASE	STARTER BY	DISCONNECT BY		
EF-1	ROOF	PERMANGANATE ROOM	PLASTEC VENTILATION	J20-6	200	0.5	1/4	BLOWER	TEFC	DIRECT	70.3 dbA	120	1	DIVISION 26	MANUFACTURER	28	①
EF-2	ROOF	ELECTRICAL ROOM	GREENHECK	CUE-140-VG	1,500	0.5	1	UPBLAST	TEFC	DIRECT	10	480	3	MANUFACTURER	DIVISION 26	94	
EF-3	ROOF	FLUORIDE ROOM	PLASTEC VENTILATION	J20-6	150	0.52	1/4	BLOWER	TEFC	DIRECT	70.3 dbA	120	1	DIVISION 26	MANUFACTURER	28	①
EF-4	ROOF	POLYPHOSPHATE ROOM	PLASTEC VENTILATION	J20-6	150	0.52	1/4	BLOWER	TEFC	DIRECT	70.3 dbA	120	1	DIVISION 26	MANUFACTURER	28	①
EF-5	ROOF	CHLORINE ROOM	PLASTEC VENTILATION	J20-6	150	0.52	1/4	BLOWER	TEFC	DIRECT	70.3 dbA	120	1	DIVISION 26	MANUFACTURER	28	①
EF-6	ROOF	STORAGE ROOM	GREENHECK	CUE-070-VG	150	0.25	1/15	UPBLAST	TENV	DIRECT	2.5	120	1	MANUFACTURER	DIVISION 26	25	
EF-7	ROOF	PUMP ROOM(S), HALLWAY	GREENHECK	CUE-140-VG	1,200	0.25	1/4	UPBLAST	TENV	DIRECT	6.7	120	1	MANUFACTURER	DIVISION 26	66	
EF-8	RESTROOM	RESTROOM	GREENHECK	SP-A90	75	0.26	15 WATTS	CEILING	ODP	DIRECT	0.4	120	1	DIVISION 26	DIVISION 26	12	
EF-9	ROOF	CHLORINE ROOM	PLASTEC VENTILATION	J25-4	1,100	0.72	1/2	BLOWER	TEFC	DIRECT	76 dbA	120	1	DIVISION 26	MANUFACTURER	34	①
EF-12	PUMP ROOM	PUMP ROOM	GREENHECK	SQ-100-VG	900	0.25	1/4	INLINE	TENV	DIRECT	7.1	120	1	MANUFACTURER	DIVISION 26	50	

① FAN AND ACCESSORIES SHALL BE SUITABLE FOR CORROSIVE (NEMA 4X) ENVIRONMENTS.

SPLIT SYSTEM SCHEDULE																		
UNIT NO.	LOCATION	SERVICE	DAIKIN MODEL NO.		FAN SECTION	COOLING SECTION				ELECTRICAL						OPERATING WEIGHT INDOOR/ OUTDOOR(LBS.)	REMARKS	
			(INDOOR UNIT)	(OUTDOOR UNIT)		SUPPLY AIR (CFM)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT DB/WB (°F)	REFRIGERANT	VOLTAGE	PHASE	MCA INDOOR/OUTDOOR (A)	MOP INDOOR/OUTDOOR (A)	DISCONNECT BY			SEER
SS-1	CONTROL ROOM	CONTROL ROOM	FCA24AAVJU	RZA24AAVJU	777	24	19.9	80/67	R32	208	1	0.5/19.8	15/20	DIV 26	19.6	51/234		

WALL LOUVER SCHEDULE														
UNIT NO.	LOCATION	SERVICE	GREENHECK MODEL NO.	AIRFLOW (CFM)	WIDTH (IN)	HEIGHT (IN)	BLADE DEPTH (IN)	MAX. APD (IN WG)	MAX. FACE VEL. (FPM)	FREE AREA (SQ. FT.)	SCREEN		TOP ELEVATION	REMARKS
											TYPE	LOCATION		
L-1	HIGH SERVICE PUMP ROOM	STORAGE RM, PERMANGANATE RM, HALLWAY	ESD-635	950	36	24	6	0.004	155	6.15	INSECT	EXTERIOR	MATCH EXISTING	
L-2	ELECTRICAL ROOM	ELECTRICAL ROOM	ESD-635	1,500	24	24	6	0.102	824	1.82	INSECT	EXTERIOR	MATCH EXISTING	
L-3	FLUORIDE ROOM	FLUORIDE ROOM	ESD-635	150	12	12	6	0.083	744	0.20	INSECT	EXTERIOR	MATCH EXISTING	
L-4	WELL NO. 4 PUMP ROOM	POLYPHOSPHATE RM, HALLWAY	ESD-635	750	76	24	6	0.002	122	6.15	INSECT	EXTERIOR	MATCH EXISTING	
L-5	CHLORINE ROOM	CHLORINE ROOM	ESD-635	1,250	76	24	6	0.006	203	6.15	INSECT	EXTERIOR	MATCH EXISTING	
L-12	PUMP ROOM	PUMP ROOM	ESD-635	900	32	16	6	0.076	714	1.26	INSECT	EXTERIOR	8'-0"	
L-13	PUMP ROOM	PUMP ROOM	ESD-635	900	24	24	6	0.033	494	1.82	INSECT	EXTERIOR	9'-4"	

GAS FIRED UNIT HEATER SCHEDULE																
UNIT NO.	LOCATION	MANUFACTURER	MODEL NO.	UNIT TYPE	FAN SECTION		NATURAL GAS HEATING SECTION				VENTING TYPE	ELECTRICAL				REMARKS
					SUPPLY AIR (CFM)	FAN (HP)	MAX. PRESSURE (IN. W.C.)	MIN. PRESSURE (IN. W.C.)	INPUT (MBH)	OUTPUT (MBH)		VOLTAGE	PHASE	FLA	DISCONNECT BY	
GUH-1	FILTER ROOM	MODINE	HDS-60	SEP COMB	990	1/12	14	5	60	49.2	TYPE B	120	1	3.3	DIV. 26	
GUH-2	FILTER ROOM	MODINE	HDS-60	SEP COMB	990	1/12	14	5	60	49.2	TYPE B	120	1	3.3	DIV. 26	
GUH-3	HIGH SERVICE PUMP ROOM	MODINE	HDS-60	SEP COMB	990	1/12	14	5	60	49.2	TYPE B	120	1	3.3	DIV. 26	

ELECTRIC HEATER SCHEDULE									
UNIT NO.	LOCATION	Q-MARK MODEL NO.	CAPACITY (WATTS)	CAPACITY (BTU)	ELECTRICAL				REMARKS
					VOLTAGE	PHASE	FLA	DISCONNECT BY	
EUH-1	PERMANGANATE ROOM	QWD03432	3,000	10,200	480	3	3.6	MANUFACTURER	①
EUH-2	ELECTRICAL ROOM	MUH03-41	3,000	10,200	480	3	3.6	MANUFACTURER	
EUH-3	FLUORIDE ROOM	QWD05432	5,000	17,000	480	3	6	MANUFACTURER	①
EUH-4	POLYPHOSPHATE ROOM	QWD03432	3,000	10,200	480	3	3.6	MANUFACTURER	①
EUH-5	CHLORINE ROOM	QWD07432	7,500	25,600	480	3	9	MANUFACTURER	①
EUH-6	STORAGE ROOM	MUH03-41	3,000	10,200	480	3	3.6	MANUFACTURER	
EUH-7	PUMP ROOM	MUH07-4	7,500	25,600	480	3	9	MANUFACTURER	
EUH-12	PUMP ROOM	MUH05-41	5,000	17,000	480	3	6	MANUFACTURER	
CUH-1	RESTROOM	CDF548RE	2,000	6,800	208	1	9.6	MANUFACTURER	
EWH-1	CONTROL ROOM	CWH1208DSAF	2,000	6,800	208	1	9.6	MANUFACTURER	

① HEATER AND ACCESSORIES SHALL BE SUITABLE FOR CORROSIVE (NEMA 4X) ENVIRONMENTS.

DEHUMIDIFIER SCHEDULE								
UNIT NO.	SERVICE	HI-E-DRY MODEL NO.	CAPACITY (Pints/DAY)	AIRFLOW (CFM)	ELECTRICAL			REMARKS
					VOLTAGE	PHASE	FLA	
DH-1	FILTER ROOM	195	195	610	120	1	13.1	
DH-2	FILTER ROOM	195	195	610	120	1	13.1	
DH-3	PUMP ROOM	195	195	610	120	1	13.1	
DH-4	PUMP ROOM	195	195	610	120	1	13.1	
DH-12	PUMP ROOM	195	195	610	120	1	13.1	

SCHEDULES AND DETAILS
HVAC SCHEDULES

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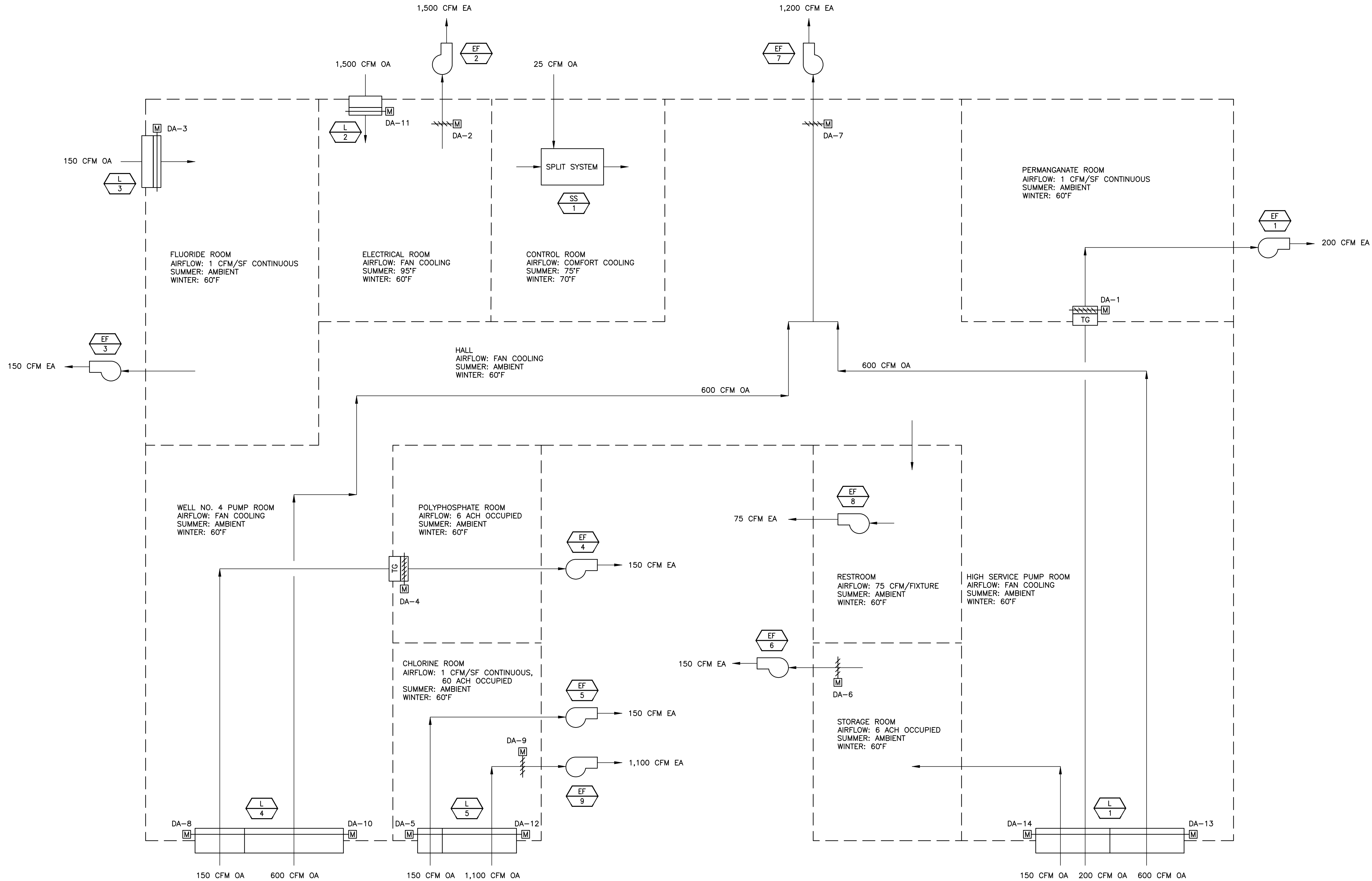
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WATER TREATMENT PLANT AIRFLOW DIAGRAM
NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	8/27/2026

SCHEDULES AND DETAILS
HVAC AIRFLOW SCHEMATIC

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
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99-H7.1

MOTOR AND MOTOR CONTROL CENTER SCHEDULE HMP-10181-MCC															
EQUIPMENT AND NAMEPLATE TITLES			EQUIPMENT LOCATION	PANEL/MCC	MOTOR INFORMATION			MOTOR STARTER INFORMATION				CONTROL & INTERLOCKS		REMARKS***	
EQUIPMENT NUMBER	FIRST LINE SECOND LINE WHEN EQUIPMENT NUMBER IS INDICATED	SECOND LINE THIRD LINE WHEN EQUIPMENT NUMBER IS INDICATED			HP (OR KW)	VOLTS	F.L.A.	SIZE	TYPE	DISCONNECT		CONTROL DEVICES	DESCRIPTION		CONDUIT AND WIRE** 1ST ROW(S)=CONTROL* LAST ROW=POWER
										TYPE	AMPS				
CBP-01	CHLORINE BOOSTER	PUMP NO. 1	FILTER ROOM	HMP-10181-MCC	1.5	480	3	1	FVNR	M	15	HOA,G,R,ETM	SV-01	2~#14 3~#12, 3/4"C.	SEE NOTE B
CBP-02	CHLORINE BOOSTER	PUMP NO. 2	FILTER ROOM	HMP-10181-MCC	1.5	480	3	1	FVNR	M	15	HOA,G,R,ETM	SV-02	2~#14 3~#12, 3/4"C.	SEE NOTE B
EF-5 AND EF-9	CHLORINE ROOM	EXHAUST FANS	CHLORINE ROOM	HMP-10181-MCC	-	-	-	-	-	TM	-	HOA,G,R,ETM,OO,G,ETM	CS-02, OS-01, ZS-01	6~#14, 3/4"C.	SEE NOTE A R=VENTILATION SHUTDOWN ACTIVATED
WH-1	WATER	HEATER	CONTROL ROOM	HMP-10181-MCC	3kW	480	-	-	-	TM	15	-	-	3~#12, 3/4"C.	
EF-2	EXHAUST FAN	NO. 2	ELECTRICAL ROOM	HMP-10181-MCC	1	480	1.8	-	-	TM	15	HOA,G,R,ETM	DAMPER, DAMPER, THERMOSTAT, DISCONNECT	8~#14 3~#12, 3/4"C.	SEE NOTE C
EUH-3	FLUORIDE ROOM	UNIT HEATER	FLUORIDE ROOM	HMP-10181-MCC	5kW	480	6	-	-	TM	15	-	-	3~#12, 3/4"C.	
EUH-5	CHLORINE ROOM	UNIT HEATER	CHLORINE ROOM	HMP-10181-MCC	7.5kW	480	9	-	-	TM	15	-	-	3~#12, 3/4"C.	
EUH-7	PUMP ROOM	UNIT HEATER	PUMP ROOM	HMP-10181-MCC	7.5kW	480	9	-	-	TM	15	-	-	3~#12, 3/4"C.	

20"

POWER MONITOR

WELL PUMP NO. 4
P-1-1-1

SURGE PROTECTOR AND LIGHTING TRANSFORMER DISCONNECTS

MAIN

20"

POWER MONITOR

HIGH LIFT PUMP
P-1-1-5

20"

SPACE

SPACE

20"

AERATION BLOWER
M-1-1-2

EUH-1,2,3,4 DISCONNECT AND
EUH-5,6,7 DISCONNECT

AIR COMPRESSOR DISCONNECT
M-2-3-1 AND
SANITARY LIFT PANEL LCP-2-4 DISCONNECT

RECYCLE PUMP
P-1-1-6

SPACE

SPACE

20"

POWER MONITOR

EF-5 AND EF-9

SURGE PROTECTOR AND LIGHTING TRANSFORMER DISCONNECTS

MAIN

20"

POWER MONITOR

EF-2

WH-1

EUH-3

EUH-5

EUH-7

SPACE

20"

250A WELL 12 FCB

SPACE

20"

AERATION BLOWER
M-1-1-2

EUH-1, 2, 4, AND 6
①

AIR COMPRESSOR DISCONNECT
M-2-3-1 AND
SANITARY LIFT PANEL LCP-2-4 DISCONNECT

RECYCLE PUMP
P-1-1-6

CBP-01

CBP-02

HMP-10181-MCC DEMOLITION ELEVATION

NO SCALE

HMP-10181-MCC PROPOSED ELEVATION

NO SCALE

GENERAL NOTES:

1. MCC MAKE AND MODEL IS CUTLER-HAMMER FREEDOM SERIES 2100, 5676B77G01, AND HAS A SHORT-CIRCUIT RATING OF 42KAIC.

KEY NOTES:

① PROVIDE NEW NAMEPLATE FOR REMAINING UNIT HEATERS.

CONTROL DEVICES		SELECTOR SWITCHES AND AUXILIARY DEVICES		DISCONNECT TYPE	MOTOR STARTER TYPE						
PUSHBUTTONS		INDICATING LIGHTS									
ST	START	R	RED (FAIL)	HOR	HAND-OFF-REMOTE	FR	FORW.-REV.	TM	THERMAL MAG BREAKER	FVNR	FULL VOLTAGE NON REVERSING
STP	STOP	G	GREEN (RUN FWD)	HLOA	HIGH-LOW-OFF-AUTO	OO	ON-OFF	M	MAG ONLY BREAKER	FVR	FULL VOLTAGE REVERSING
ESPB	EMERGENCY STOP	A	AMBER (WARNING)	HOAL	HAND-OFF-AUTO-LOCAL	LR	LOCAL REMOTE	F	FUSED	TS2WR	TWO SPEED TWO WINDING REVERSING
RST	RESET	B	BLUE (RUN REV)	HOA	HAND-OFF-AUTO			NF	NON-FUSED	TS2W	TWO SPEED TWO WINDING
LOS	LOCKOUT STOP	W	WHITE	FOR	FOR.-OFF-REV.					RVSS	REDUCED VOLTAGE SOLID STATE
SIL	SILENCE	C	CLEAR	ETM	ELAPSED TIME METER					VFD	VARIABLE FREQUENCY DRIVE
										ND	NORMAL DUTY
										HD	HEAVY DUTY
										AFE	ACTIVE HARMONIC FRONT END

* IF APPLICABLE

** PROVIDE GROUND WIRE FOR EACH PIECE OF EQUIPMENT SIZED PER THE NEC. PROVIDE A SEPARATE ISOLATED GROUND CONDUCTOR FOR BONDING RACEWAY SYSTEM WHERE SHIELDED VFD CABLE IS PROVIDED.

*** SEE SPECIFICATIONS SECTION 26 09 00-CONTROLS AND INSTRUMENTATION, PART 3 FOR NOTES REFERENCED

SCHEDULES AND DETAILS

HMP-10181-MCC SCHEDULE, DEMOLITION, AND PROPOSED ELEVATIONS

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS

CITY OF STEVENS POINT

PORTAGE COUNTY, WISCONSIN

JOB NO.

1038.015

PROJECT MGR.

MIKE FORSLUND

SA

STRAND

ASSOCIATES®

SHEET

56

99-E6.1

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MOTOR AND MOTOR CONTROL CENTER SCHEDULE MCC-12															
EQUIPMENT AND NAMEPLATE TITLES			EQUIPMENT LOCATION	PANEL/MCC	MOTOR INFORMATION			MOTOR STARTER INFORMATION				CONTROL & INTERLOCKS		CONDUIT AND WIRE** 1ST ROW(S)=CONTROL* LAST ROW=POWER	REMARKS***
EQUIPMENT NUMBER	FIRST LINE SECOND LINE WHEN IS INDICATED	SECOND LINE THIRD LINE WHEN IS INDICATED			HP (OR KW)	VOLTS	F.L.A.	SIZE	TYPE	DISCONNECT		CONTROL DEVICES	DESCRIPTION		
										TYPE	AMPS				
WP-12	WELL PUMP	NO. 12	PUMP ROOM	MCC-12	100	480	124	-	VFD ND	TM	200	HOA,G,R,R,R,W,RST,ETM	MOTOR T-STATS, SV-12, ZSO-12	6~#14, 3/4°C. 3~2/0, 2°C.	SEE NOTE A R=VFD FAULT, R=MOTOR OVERTEMP, R=FLOW FAIL, W=BACKSPIN TIMER ACTIVE
EUH-12	UNIT HEATER		PUMP ROOM	MCC-12	5kW	480	6	-	-	TM	15	-	-	3~#12, 3/4°C.	
AHF-12	WELL NO. 12	HARMONIC FILTER	PUMP ROOM	MCC-12	-	480	100	-	-	TM	125	-	-	3~1/0, 1 1/2°C.	

[illegible]

CONTROL DEVICES		SELECTOR SWITCHES AND AUXILIARY DEVICES		DISCONNECT TYPE	MOTOR STARTER TYPE	
PUSHBUTTONS	INDICATING LIGHTS					
ST START	R RED (FAIL)	HOR HAND-OFF-REMOTE	FR FORW.-REV.	TM THERMAL MAG BREAKER	FVNR FULL VOLTAGE NON REVERSING	* IF APPLICABLE ** PROVIDE GROUND WIRE FOR EACH PIECE OF EQUIPMENT SIZED PER THE NEC. PROVIDE A SEPARATE ISOLATED GROUND CONDUCTOR FOR BONDING RACEWAY SYSTEM WHERE SHIELDED VFD CABLE IS PROVIDED. *** SEE SPECIFICATIONS SECTION 26 09 00-CONTROLS AND INSTRUMENTATION, PART 3 FOR NOTES REFERENCED
STP STOP	G GREEN (RUN FWD)	HLOA HIGH-LOW-OFF-AUTO	OO ON-OFF	M MAG ONLY BREAKER	FVR FULL VOLTAGE REVERSING	
ESPB EMERGENCY STOP	A AMBER (WARNING)	HOAL HAND-OFF-AUTO-LOCAL	LR LOCAL REMOTE	F FUSED	TS2WR TWO SPEED TWO WINDING REVERSING	
RST RESET	B BLUE (RUN REV)	HOA HAND-OFF-AUTO		NF NON-FUSED	TS2W TWO SPEED TWO WINDING	
LOS LOCKOUT STOP	W WHITE	FOR FOR.-OFF-REV.			RVSS REDUCED VOLTAGE SOLID STATE	
SIL SILENCE	C CLEAR	ETM ELAPSED TIME METER			VFD VARIABLE FREQUENCY DRIVE	
					ND NORMAL DUTY	
					HD HEAVY DUTY	
					AFF ACTIVE HARMONIC FRONT END	

MOTOR AND MOTOR CONTROL CENTER SCHEDULE MCC-07															
EQUIPMENT AND NAMEPLATE TITLES			EQUIPMENT LOCATION	PANEL/MCC	MOTOR INFORMATION			MOTOR STARTER INFORMATION				CONTROL & INTERLOCKS		CONDUIT AND WIRE** 1ST ROW(S)=CONTROL* LAST ROW=POWER	REMARKS***
EQUIPMENT NUMBER	FIRST LINE SECOND LINE WHEN EQUIPMENT NUMBER IS INDICATED	SECOND LINE THIRD LINE WHEN EQUIPMENT NUMBER IS INDICATED			HP (OR KW)	VOLTS	F.L.A.	SIZE	TYPE	DISCONNECT		CONTROL DEVICES	DESCRIPTION		
										TYPE	AMPS				
WP-07	WELL PUMP	NO. 7	PUMP ROOM	MCC-07	200	480	232	-	VFD ND	TM	350	HOA,G,R,W,ETM	SV-07	2~#14, 3/4"C. 3~350MCM, 2 1/2"C.	SEE NOTE A W=BACKSPIN TIMER ACTIVE
AHF-07	WELL NO. 7	HARMONIC FILTER	PUMP ROOM	MCC-07	-	480	150	-	-	TM	250	-	-	3~250MCM, 2 1/2"C.	
MOTOR AND MOTOR CONTROL CENTER SCHEDULE MCC-08															
EQUIPMENT AND NAMEPLATE TITLES			EQUIPMENT LOCATION	PANEL/MCC	MOTOR INFORMATION			MOTOR STARTER INFORMATION				CONTROL & INTERLOCKS		CONDUIT AND WIRE** 1ST ROW(S)=CONTROL* LAST ROW=POWER	REMARKS***
EQUIPMENT NUMBER	FIRST LINE SECOND LINE WHEN EQUIPMENT NUMBER IS INDICATED	SECOND LINE THIRD LINE WHEN EQUIPMENT NUMBER IS INDICATED			HP (OR KW)	VOLTS	F.L.A.	SIZE	TYPE	DISCONNECT		CONTROL DEVICES	DESCRIPTION		
										TYPE	AMPS				
WP-08	WELL PUMP	NO. 8	PUMP ROOM	MCC-08	200	480	232	-	VFD ①	TM	350	HOA,G,R,W,ETM	SV-08	2~#14, 3/4"C. 3~350MCM, 2 1/2"C.	SEE NOTE A W=BACKSPIN TIMER ACTIVE
AHF-08	WELL NO. 8	HARMONIC FILTER	PUMP ROOM	MCC-08	-	480	150	-	-	TM	250	-	-	3~250MCM, 2 1/2"C.	
EXISTING WELL NO. 7 MCC ELEVATION NO SCALE NEW WELL NO. 7 MCC ELEVATION NO SCALE EXISTING WELL NO. 8 MCC ELEVATION NO SCALE NEW WELL NO. 8 MCC ELEVATION NO SCALE EXISTING WELL NO. 7 MCC ELEVATION NO SCALE NEW WELL NO. 7 MCC ELEVATION NO SCALE EXISTING WELL NO. 8 MCC ELEVATION NO SCALE NEW WELL NO. 8 MCC ELEVATION NO SCALE EXISTING WELL NO. 7 MCC ELEVATION NO SCALE NEW WELL NO. 7 MCC ELEVATION NO SCALE EXISTING WELL NO. 8 MCC ELEVATION NO SCALE NEW WELL NO. 8 MCC ELEVATION NO SCALE EXISTING WELL NO. 7 MCC ELEVATION NO SCALE NEW WELL NO. 7 MCC ELEVATION NO SCALE EXISTING WELL NO. 8 MCC ELEVATION NO SCALE NEW WELL NO. 8 MCC ELEVATION NO SCALE EXISTING WELL NO. 7 MCC ELEVATION NO SCALE NEW WELL NO. 7 MCC ELEVATION NO SCALE EXISTING WELL NO. 8 MCC ELEVATION NO SCALE NEW WELL NO. 8 MCC ELEVATION NO SCALE EXISTING WELL NO. 7 MCC ELEVATION NO SCALE NEW WELL NO. 7 MCC ELEVATION NO SCALE EXISTING WELL NO. 8 MCC ELEVATION NO SCALE NEW WELL NO. 8 MCC ELEVATION NO SCALE EXISTING WELL NO. 7 MCC 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8/27/2026

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REVISIONS

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SCHEDULES AND DETAILS

MCC-07 AND MCC-08 SCHEDULES AND ELEVATIONS

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015

PROJECT MGR.
MIKE FORSLUND

SA

STRAND ASSOCIATES®

SHEET 58

99-E6.3

LIGHTING PANEL LP-1																					
Service: 120/208V, 3ø, 4W				Enclosure: NEMA 1								Mounting: Wall				Main Breaker: 225A					
Location: Structure												Main Bus: Copper				SCIC: 10 kAIC					
Room Number/Description	Amps	Poles	Ckt. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt. #	Poles	Amps	Room Number/Description	Amps	Poles	Ckt. #	Phase A	Phase B	Phase C		
FILTER ROOM LIGHTING	20	1	1	1100			800			2	1	20	FILTER ROOM RECEPTACLES	20	1	20					
FILTER ROOM LIGHTING	20	1	3		1000			800		4	1	20	FILTER ROOM RECEPTACLES	20	1	20					
CONTROL ROOM LIGHTING	20	1	5			300			1200	6	1	20	CONTROL ROOM RECEPTS	20	1	20					
CHEMICAL ROOM LIGHTING	20	1	7	300			1200			8	1	20	CONTROL ROOM RECEPTS	20	1	20					
ELECTRICAL ROOM LIGHTING	20	1	9		300			600		10	1	20	CHEMICAL ROOM RECEPTS	20	1	20					
FLUORIDE ROOM LIGHTING	20	1	11			200			600	12	1	20	ELECTRICAL RM RECEPTS	20	1	20					
WELL ROOM LIGHTING	20	1	13	400			600			14	1	20	FLUORIDE ROOM RECEPTS	20	1	20					
HALL LIGHTING	20	1	15		300			800		16	1	20	WELL ROOM RECEPTS	20	1	20					
PHOSPHATE ROOM LIGHTING	20	1	17			200			600	18	1	20	HALL RECEPTS	20	1	20					
CHLORINE ROOM LIGHTING	20	1	19	200			400			20	1	20	PHOSPHATE RM RCPTS	20	1	20					
PUMP TOOM LIGHTING	20	1	21		600			400		22	1	20	CHLORINE RM RCPTS	20	1	20					
TOILET ROOM LTG & RCPTS	20	1	23			550			800	24	1	20	PUMP RM RCPTS	20	1	20					
JANITOR ROOM LIGHTING	20	1	25	100			200			26	1	20	SPARE AIT-01	20	1	20					
EXTERIOR ROOM LIGHTING	20	1	27		400			800		28	1	20	EXTERIOR RCPTS	20	1	20					
AERATION ROOM LIGHTING	20	1	29			700			600	30	1	20	ACCESS RN LIGHTS	20	1	20					
AERATION ROOM RCPTS	20	1	31	300			600			32	1	20	ACCESS RM RECEPTS	20	1	20					
INSPECTION LIGHTING	20	1	33		1000			200		34	1	20	GUH-1	20	1	20					
DH-1 RECEPTACLE	20	1	35			1400			200	36	1	20	GUH-2	20	1	20					
DH-2 RECEPTACLE	20	1	37	1400			1400			38	1	20	DH-3 RECEPTACLE	20	1	20					
GUH-3	20	1	39		200			360		40	1	20	EVC-01, EVC-02	20	1	20					
DH-4 RECEPTACLE	20	1	41			800			100	42	1	20	RECIRCULATION PUMP (RP-1)	20	1	20					
CUH-8	20	2	43	1000			1000			44	1	20	EF-1, EF-3, AND DAMPERS	20	1	20					
			45		1000			1000		46	1	20	EF-4, EF-8, AND DAMPERS	20	1	20					
GENERATOR SPACE HEATER	20	1	47			200			120	48	1	20	GENERATOR BATTERY CHARGER	20	1	20					
FIRE ALARM CONTROL PANEL*	20	1	49	500			240			50	1	15	EF-6 AND DAMPERS	20	1	20					
DAMPER RELAY JUNCTION BOX	20	1	51		200			720		52	1	20	EF-5, EF-9, AND DAMPERS	20	1	20					
SS-01 (INDOOR UNIT)	15	2	53			1000			4150	54		50	WATER HEATER TOILET	20	1	20					
			55	1000			4150			56	2			20	1	20					
M-3-2-1	20	1	57		100			4150		58			WATER HEATER JANITOR	20	1	20					
LCP-3-4	20	1	59			1200			4150	60	2	50		20	1	20					
M-3-5-1 RECEPTACLE	20	1	61	1200			1200			62	1	20	AIR DRYER	20	1	20					
M-3-4-1 RECEPTACLE	20	1	63		1200			1200		64	1	20	LCP-3-5	20	1	20					
P-3-4-1	20	1	65			1200			500	66	1	20	LCP-2-1	20	1	20					
P-3-1-1	20	1	67	1200			500			68	1	20	LCP-1-1	20	1	20					
P-3-1-2	20	1	69		1200			200		70	1	20	FIT-2-5-1	20	1	20					
UPS RECEPTACLE	20	1	71			200			200	72	1	20	FIT-1-1-1, FIT-01	20	1	20					
GENERATOR BLOCK HEATER	35	2	73	2000			200			74	1	20	LIT-1-1-1	20	1	20					
			75		2000			240		76	1	15	EF-7 AND DAMPERS	20	1	20					
SS-01 (OUTDOOR UNIT)	20	2	77			1000			1000	78		20	EWH-01	20	1	20					
			79	1000			1000			80	2			20	1	20					
WIT-01, WIT-02, WIT-03, WIT-04, WIT-05	20	1	81		1000			200		82	1	20	AERATOR PUMP	20	1	20					
P-3-5-1 RECEPTACLE	20	1	83			1200			180	84	1	15	JANITOR RM RECEPT	20	1	20					
Total Load per Phase per Side (VA)				11700	10500	10150	13490	11670	14400												
Total Load Phase A (VA)				25190	VA	*REPLACE EXISTING CIRCUIT BREAKER. NEW BREAKER SHALL BE RED AND PERMANENTLY MARKED FIRE ALARM.								Total Connected Load				200	A		
Total Load Phase B (VA)				22170	VA									Total Connected Load + 25%				250	A		
Total Load Phase C (VA)				24550	VA									Spare 25%				62	A		
Total Connected Load (VA)				71910	VA									Feeder Load				312	A		

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LIGHTING PANEL LP-12																	
Service: 120/208V, 3ø, 4W				Enclosure: NEMA 1G								Mounting: In MCC-12					
Main Breaker: 100A MCB												Main Bus: Copper					
Location: Well No. 12												SCIC: 10 kAIC					
Room Number/Description		Amps	Poles	Ckt. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt. #	Poles	Amps	Room Number/Description			
INDOOR LIGHTING		20	1	1	270			300			2	1	20	OUTDOOR LIGHTNING			
RECEPTACLES		20	1	3		360			360		4	1	20	RECEPTACLES			
DH-12		20	1	5			1875				6	1	20	FLOW METER (FIT-12)			
EF-12 AND DAMPERS		15	1	7	240			500			8	1	20	RIO-12			
IWH-12		20	1	9		480					10	1	20	SPARE			
SPARE		20	1	11							12	1	20	SPARE			
SPARE		20	1	13							14	1	20	SPARE			
SPARE		20	1	15							16	1	20	SPARE			
SPARE		20	1	17							18	1	20	SPARE			
Total Load per Phase per Side (VA)					510	840	1875	800	360	14							
Total Load Phase A (VA)			1310	VA								Total Connected Load			12	A	
Total Load Phase B (VA)			1200	VA								Total Connected Load + 25%			15	A	
Total Load Phase C (VA)			1889	VA								Spare 25%			4	A	
Total Connected Load (VA)			4399	VA								Feeder Load			19	A	

FIXTURE SCHEDULE					
Fixture Type	Manufacturer(s)	Model Number	Mounting	Remarks	
A1	METALUX	4VT2-LD5-6-DR-UNV-L840-CD1-WL-U	CEILING/WALL		
A2	METALUX	4VT2-LD5-4-DR-UNV-L840-CD1-WL-U	WALL		
B	METALUX	24EN-LD2-67-UNV-L840-CD-1-U	CEILING		
C	LITHONIA	DSXW1-P4-40K-T3M-120-BBW-PW-DBLXD	WALL		
D	SWOOP	SWP1212-NODIM-25W-40K-MVOLT-CLP-WHT	CEILING		
E	COOPER	9002-W2-RW-LED04080-W-W-BK-L1-UNV-RSM	WALL		
F	COOPER	GALN-SA4A-740-U-T3-QM-BK-OARA 1014	POLE	PROVIDE ROUND ALUMINUM POLE MODEL RSA25C7-4, AS MANUFACTURED BY HAPCO, WHERE SHOWN ON THE DRAWINGS. POLE COLOR SHALL MATCH LIGHT FIXTURE	

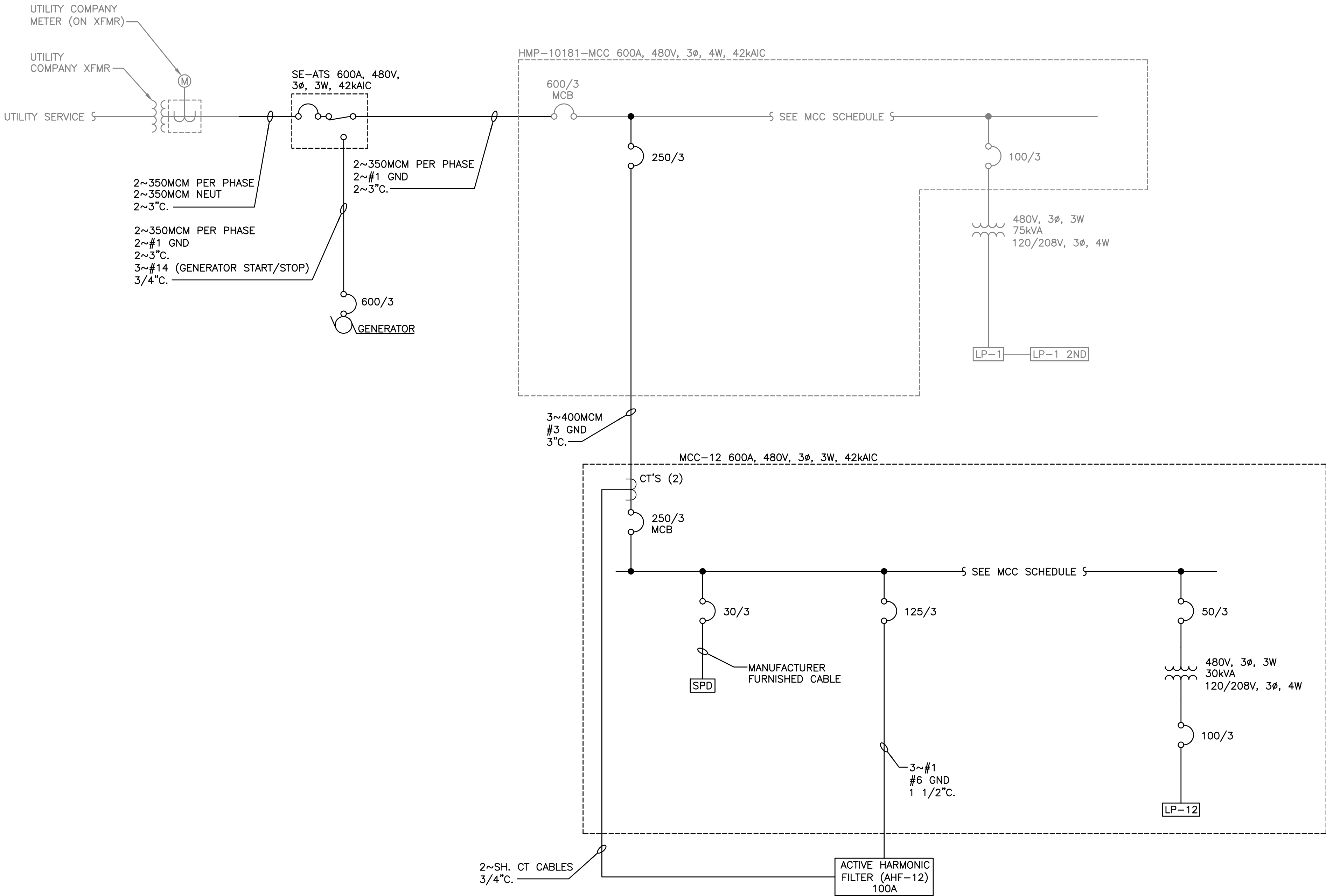
KEY NOTES:

- ① RELOCATE UPS RECEPTACLE FROM CIRCUIT 73 TO EXISTING NOT-IN-USE CIRCUIT 71. REMOVE EXISTING SINGLE POLE BREAKER FROM CIRCUIT 75 AND REPLACE WITH A NEW 35-AMP, 2-POLE BREAKER FOR THE GENERATOR BLOCK HEATER.
- ② REWIRE EF-1 FROM CIRCUIT 40 TO EXISTING CIRCUIT 44 WITH EF-3.
- ③ REWIRE WIT-01 AND WIT-02 FROM CIRCUIT 80 AND WIT-03 AND WIT-04 FROM CIRCUITS 77 AND 79 TO CIRCUIT 81 WITH WIT-05. REMOVE EXISTING SINGLE POLE BREAKER FROM CIRCUIT 79 AND REPLACE WITH A NEW 20-AMP, 2-POLE BREAKER FOR THE SS-01 OUTDOOR UNIT.
- ④ REMOVE EXISTING SINGLE POLE BREAKER FROM CIRCUIT 80 AND REPLACE WITH A NEW 20-AMP, 2-POLE BREAKER FOR EWH-01.
- ⑤ REWIRE EF-5 FROM CIRCUIT 48 TO CIRCUIT 52 WITH EF-9.
- ⑥ REWIRE EF-8 FROM CIRCUIT 52 TO CIRCUIT 46 WITH EF-4.

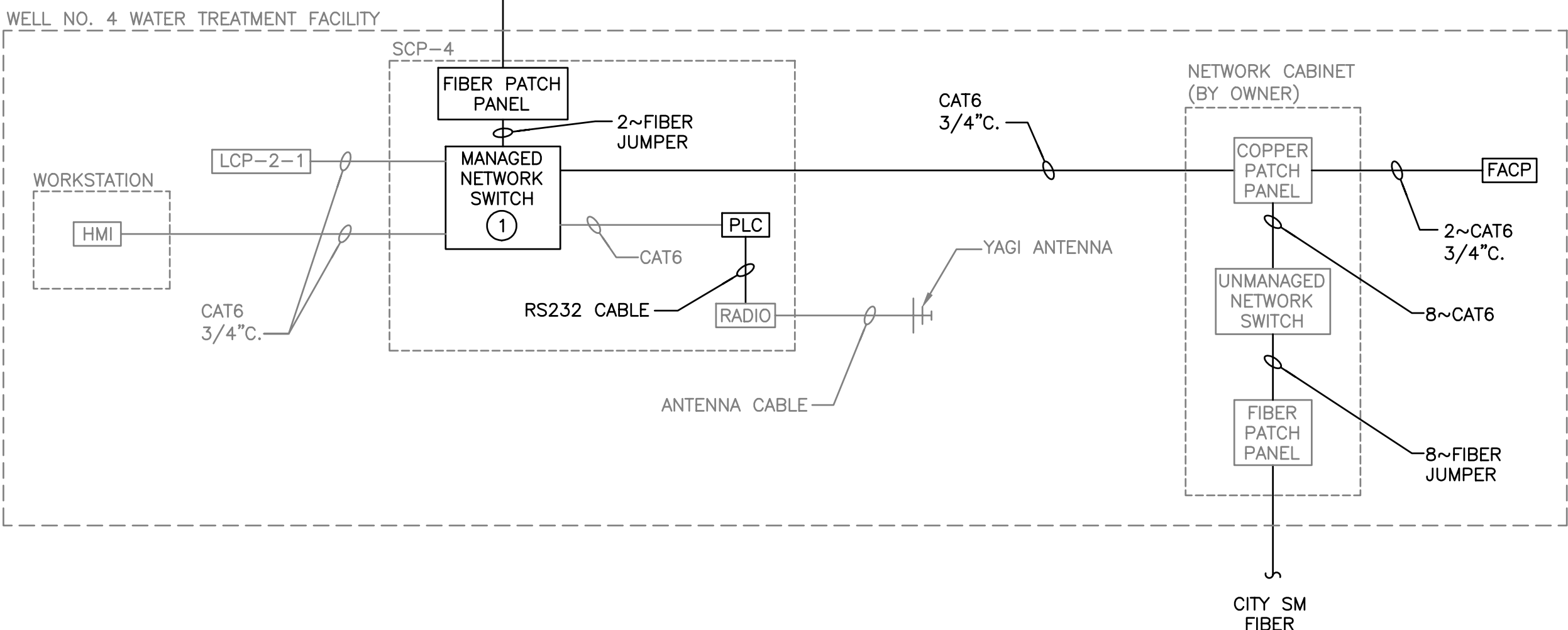
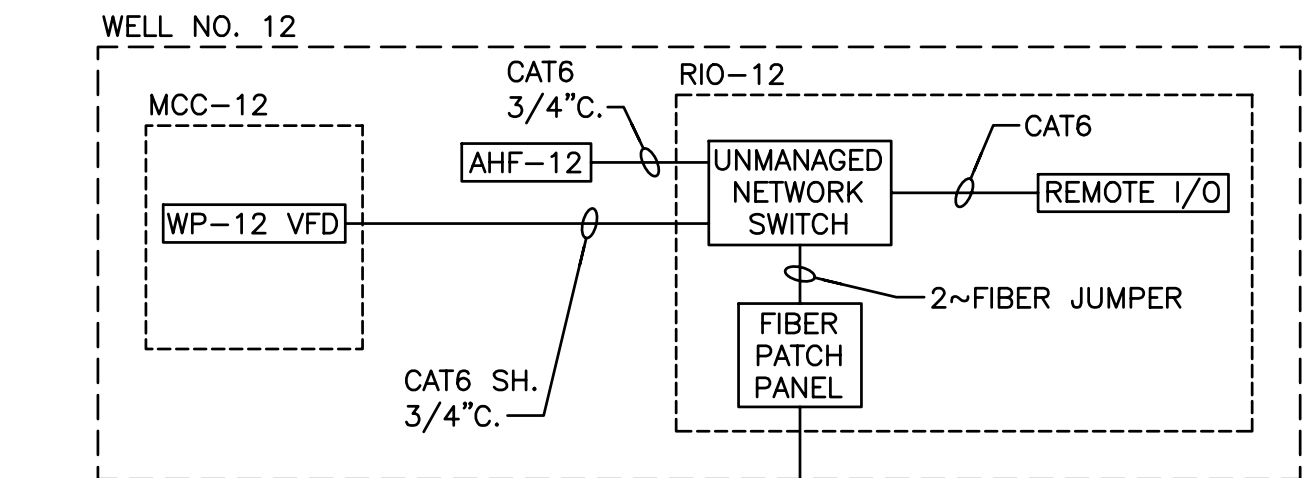
LIGHTING PANEL LP-07																			
Service: 120/208V, 3ø, 4W				Enclosure: NEMA 1G								Mounting: In MCC-07							
Main Breaker: 100A MLO												Main Bus: Copper							
Location: Well No. 7												SCIC: 10 kAIC							
Room Number/Description		Amps	Poles	Ckt. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt. #	Poles	Amps	Room Number/Description					
INDOOR LIGHTING		20	1	1	100			1500			2			ELECTRIC UNIT HEATER					
RECEPTACLES		20	1	3		540			1500		4	3	40						
GENERATOR BLOCK HEATER		35	2	5	2000		2000			1500	6	8	1	20	SCC-07				
				7															
GENERATOR BATTERY CHARGER		20	1	9		120			500		200	10	1	20	GENERATOR SPACE HEATER				
OUTDOOR LIGHTING		20	1	11			55					12	1	20	SPARE				
SPARE		20	1	13								14	1	20	SPARE				
SPARE		20	1	15								16	1	20	SPARE				
SPARE		20	1	17								18	1	20	SPARE				
Total Load per Phase per Side (VA)					2100	660	2055	2000	1700	1500									
Total Load Phase A (VA)			4100	VA							Total Connected Load				28	A			
Total Load Phase B (VA)			2360	VA							Total Connected Load + 25%				35	A			
Total Load Phase C (VA)			3555	VA							Spare 25%				9	A			
Total Connected Load (VA)			10015	VA							Feeder Load				43	A			

KEY NOTES:

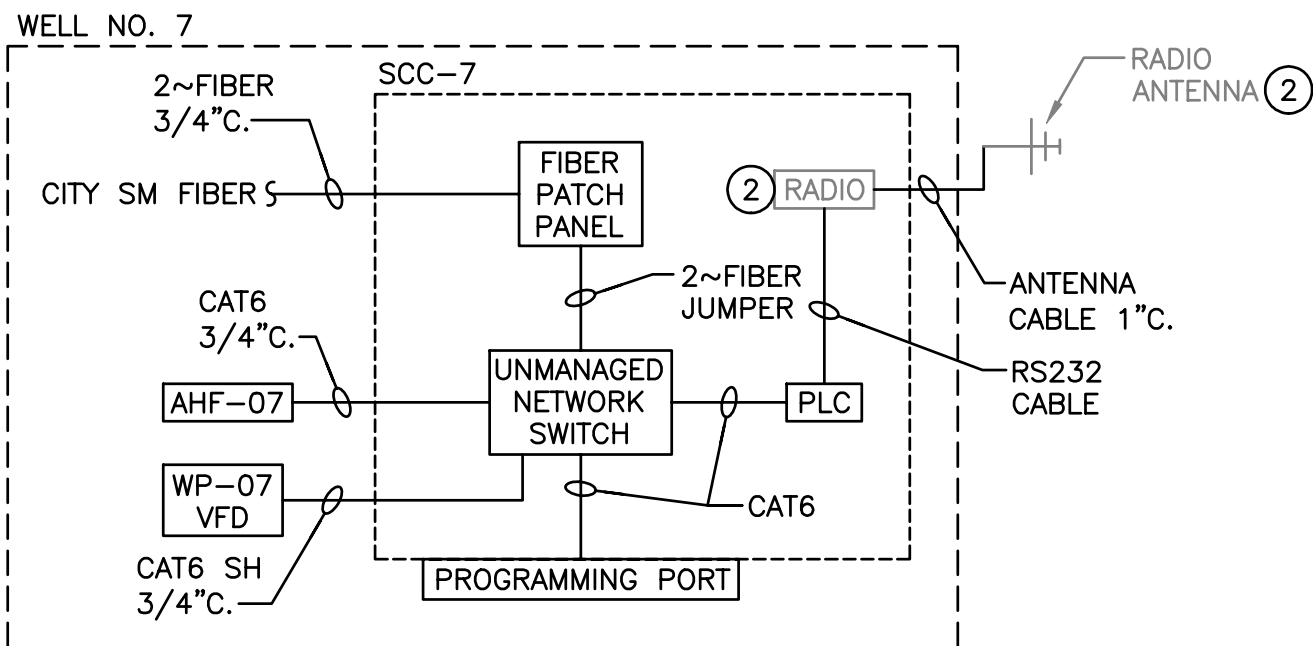
- ① REMOVE EXISTING UNMANAGED NETWORK SWITCH IN SCP-4 AND REPLACE WITH NEW MANAGED NETWORK SWITCH AS SPECIFIED.
- ② RADIO AND RADIO ANTENNA TO BE REINSTALLED AND RECONNECTED TO NEW SCC PANEL.



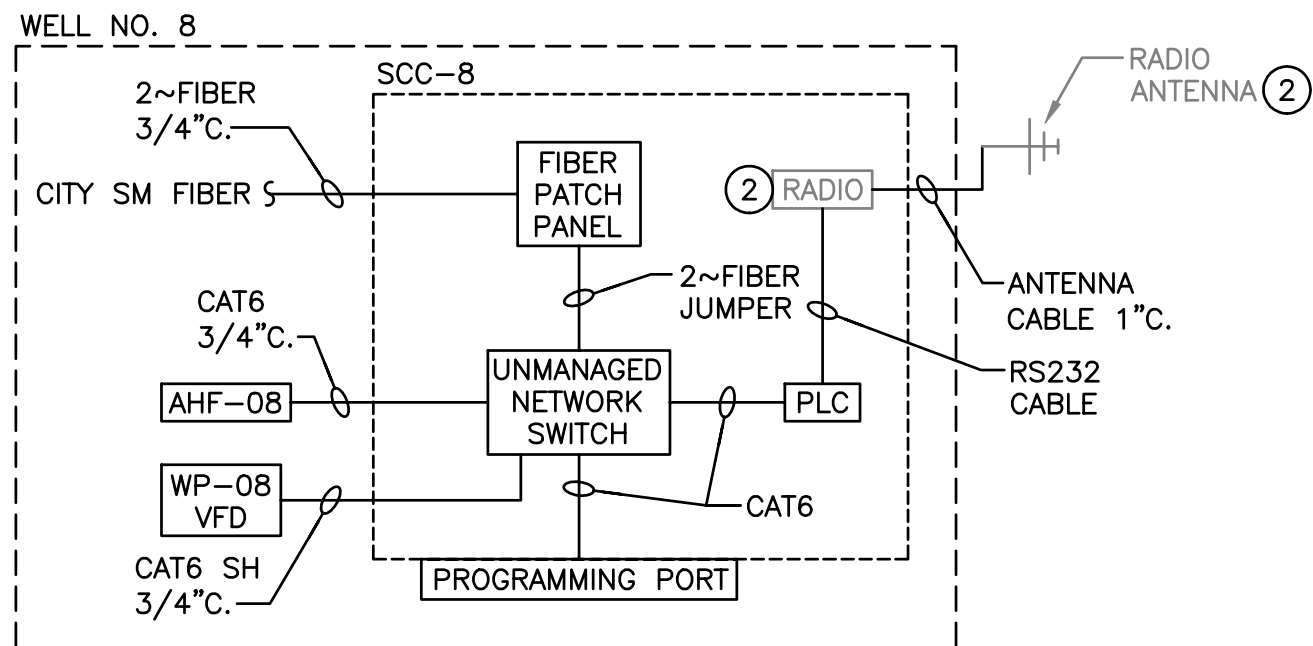
WELL NO. 12 AND WTP ONE-LINE DIAGRAM
NO SCALE



WELL NO. 12 AND WELL NO. 4 SCADA RISER DIAGRAM
NO SCALE



WELL NO. 7 SCADA RISER DIAGRAM
NO SCALE



WELL NO. 8 SCADA RISER DIAGRAM
NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	8/27/2026

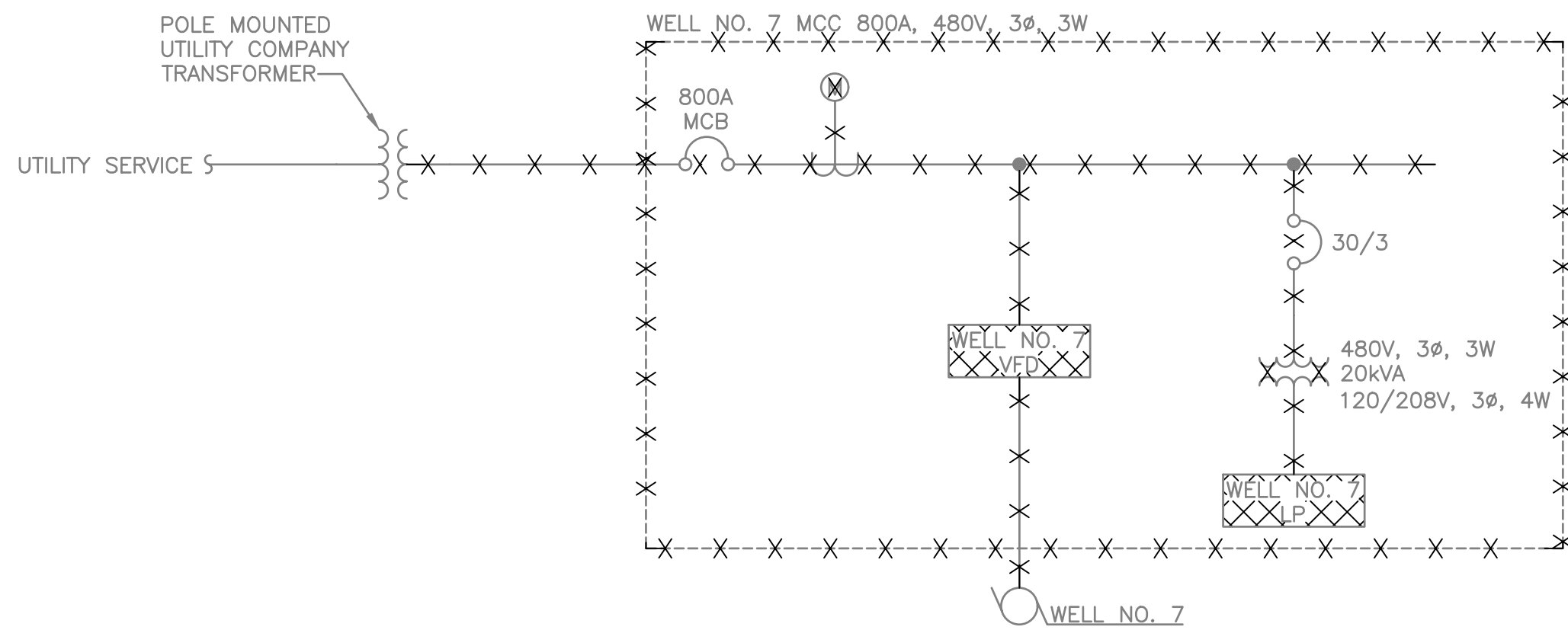
SCHEDULES AND DETAILS
DIAGRAMS

WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

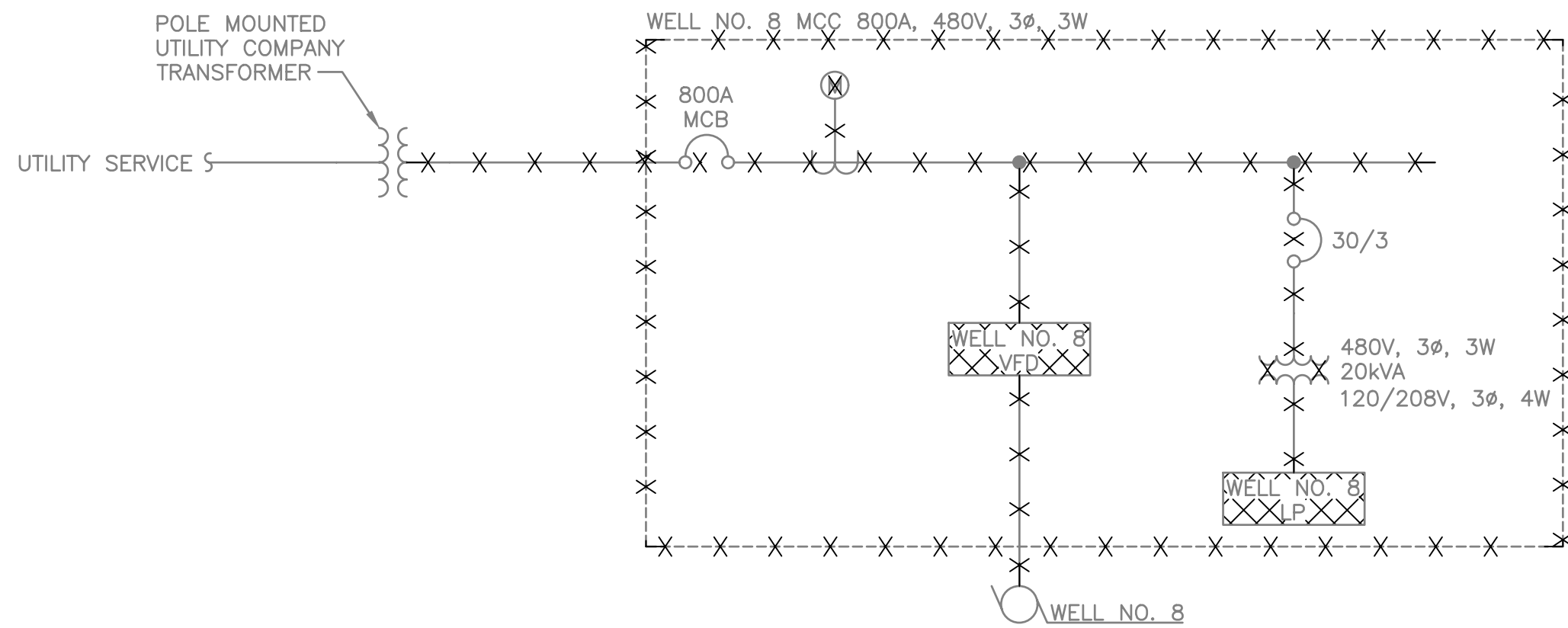
JOB NO.
1038.015
PROJECT MGR.
MIKE FORSLUND



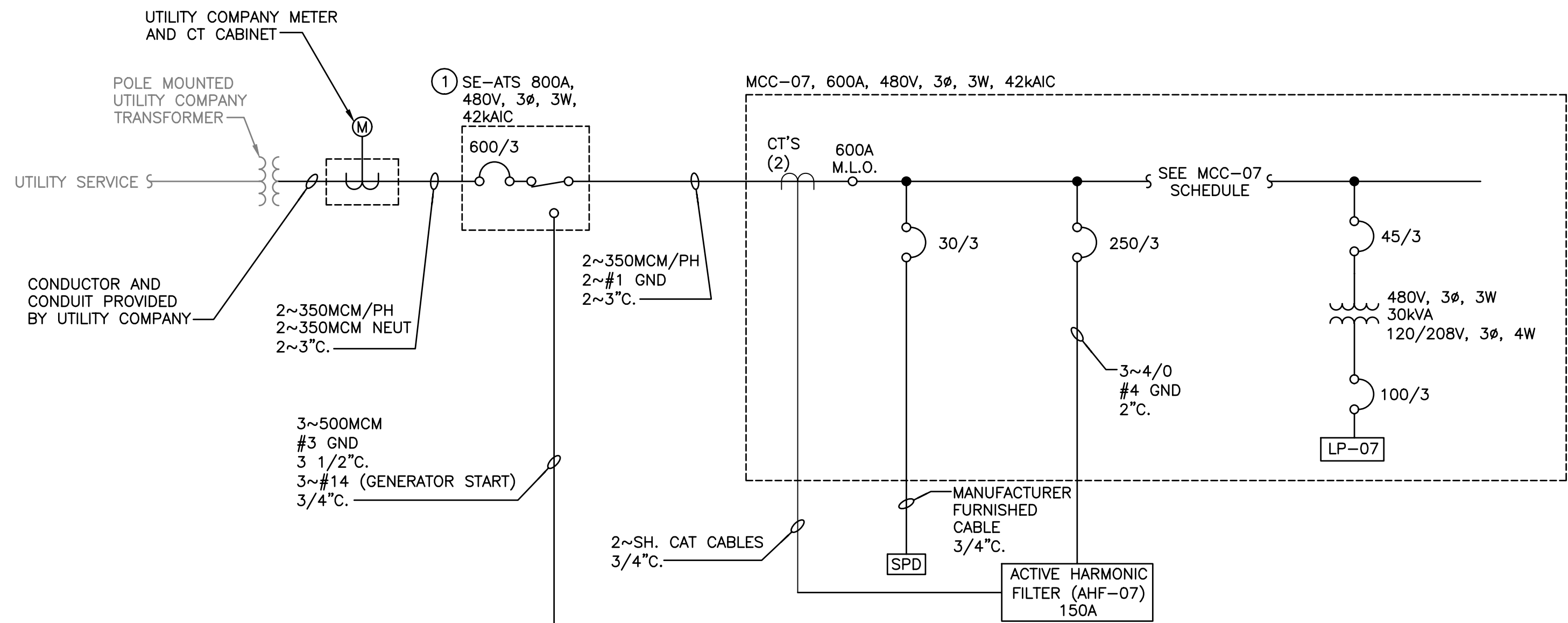
SHEET
60
99-E6.5



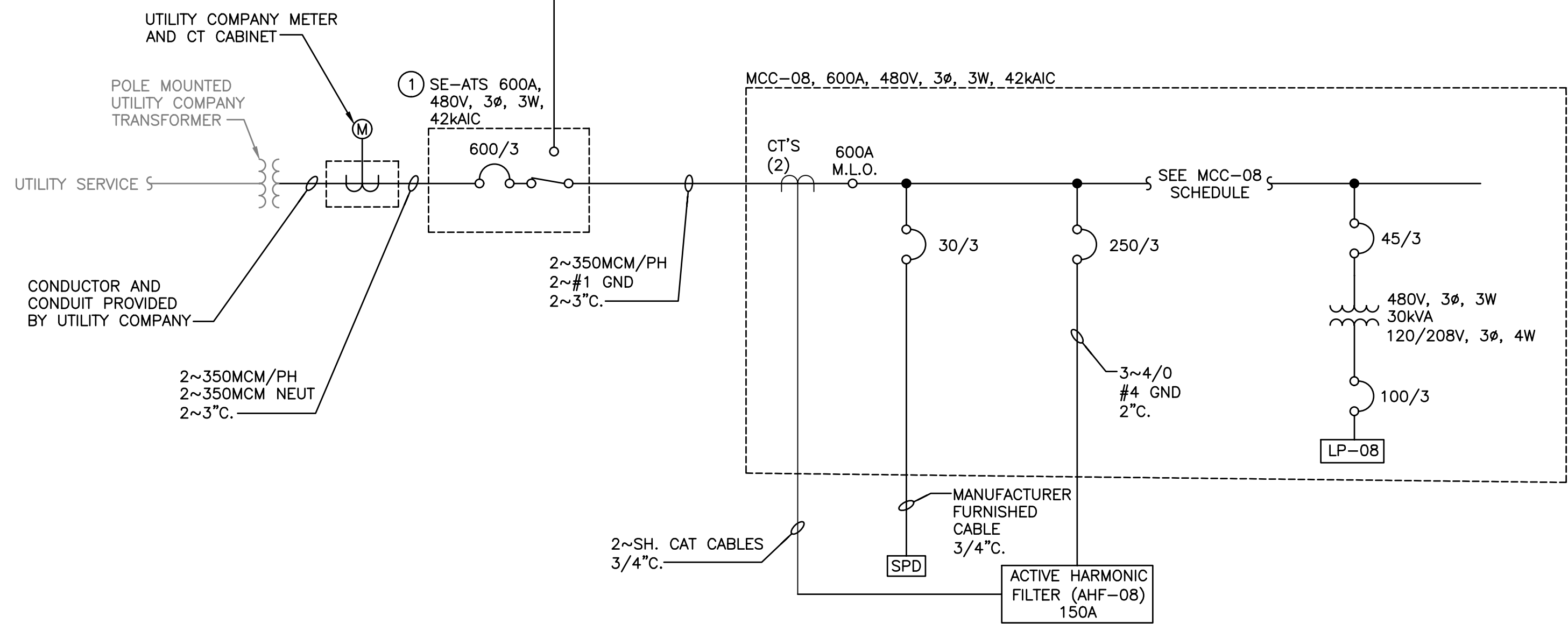
WELL NO. 7 DEMOLITION ONE-LINE DIAGRAM
NO SCALE



WELL NO. 8 DEMOLITION ONE-LINE DIAGRAM
NO SCALE



WELL NO. 7 PROPOSED ONE-LINE DIAGRAM
NO SCALE



WELL NO. 8 PROPOSED ONE-LINE DIAGRAM
NO SCALE

- KEY NOTES:
- 1 PROVIDE 800A FRAME SE-ATS TO ALLOW SPACE FOR ADDITIONAL LUGS. PROVIDE MINIMUM TWO SPARE LINE LUGS PER PHASE, NEUTRAL, AND GROUND, MATCHING LUGS FOR CONDUCTORS SHOWN ON THIS DRAWING WITH NEW SE-ATS FOR OWNER'S FUTURE SOLAR CONNECTION.

SCHEDULES AND DETAILS
WELL NO. 7 AND WELL NO. 8 ONE-LINE DIAGRAMS
WELL NO. 12 WELL HOUSE AND WATER TREATMENT PLANT MODIFICATIONS
CITY OF STEVENS POINT
PORTAGE COUNTY, WISCONSIN

JOB NO.
1038.015
PROJECT MGR.
MIKE FORSLUND
STRAND ASSOCIATES®
SHEET
61
99-E6.6