

PUMPHOUSE NO. 3 & CONNECTING WATERMAIN VILLAGE OF FAIRCHILD, WISCONSIN

GENERAL STANDARDS SHEETS

SHEET NUMBER	DESCRIPTION
G1	COVER & INDEX OF SHEETS
G2	PROJECT LOCATION MAP
G3	GENERAL NOTES, ABBREVIATIONS, & DETAILS
G4	PROCESS SCHEMATIC & DESIGN DATA
G10	PUMPHOUSE NO. 3 GENERAL SITE PLAN
G51	PUMPHOUSE NO. 1 DEMOLITION PLAN
G52	PUMPHOUSE NO. 1 DEMOLITION DETAILS - 1
G53	PUMPHOUSE NO. 1 DEMOLITION DETAILS - 2

MECHANICAL SHEETS

SHEET NUMBER	DESCRIPTION
M1	MECH. CONTRACTOR WATERMAIN DETAILS
M2	MECH. CONTRACTOR TRACER WIRE DETAILS
M3	MECHANICAL DETAILS
M101	MECHANICAL PLAN & SECTIONS
M102	MECHANICAL SECTIONS
M103	PLUMBING & VENTILATION PLAN & SCHEMATICS
M104	CHEMICAL FEED SCHEMATICS

CIVIL SHEETS

SHEET NUMBER	DESCRIPTION
C1	CIVIL SITEWORK DETAILS
C10	PUMPHOUSE NO. 3 SITE GRADING PLAN
C11	SITE GRADING CROSS SECTIONS

WELL/PUMP SHEETS

SHEET NUMBER	DESCRIPTION
W101	WELL #3 PROFILE, TURBINE PUMP SECTIONS & DETAILS
W102	WELL PUMP BASE & WELL #1 PROFILE

ARCHITECTURAL SHEETS

SHEET NUMBER	DESCRIPTION
A1	SCHEDULES & DETAILS
A2	ARCHITECTURAL DETAILS - 1
A3	ARCHITECTURAL DETAILS - 2
A101	BUILDING ELEVATIONS
A102	BUILDING PLAN & SECTIONS
A103	BUILDING SECTION & DETAILS

INSTRUMENTATION SHEETS

SHEET NUMBER	DESCRIPTION
I1	INSTRUMENTATION SYMBOLS, ABBREVIATIONS & DETAILS
I10	SCADA SYSTEM CTU/ RTU LOCATIONS
I101	SCADA & RTU SYSTEM SCHEMATIC

PIPELINE SHEETS

SHEET NUMBER	DESCRIPTION
P1	TRAFFIC CONTROL PLAN
P2	TYPICAL SECTION FOR WATERMAIN RESTORATION
P3	EROSION CONTROL DETAILS
P4	PIPELINE CONTRACTOR - TRACER WIRE DETAILS
P5	PIPELINE CONTRACTOR - WATERMAIN DETAILS
P100	CAMP RD. PLAN & PROFILE - 1
P101	CAMP RD. PLAN & PROFILE - 2
P200	CAMP RD. CROSS SECTION - 1
P201	CAMP RD. CROSS SECTION - 2
P202	CAMP RD. CROSS SECTION - 3

STRUCTURAL SHEETS

SHEET NUMBER	DESCRIPTION
S1	GENERAL STRUCTURAL NOTES & DETAILS
S2	STRUCTURAL DETAILS
S101	FOUNDATION & FLOOR PLANS
S102	STRUCTURAL SECTIONS - 1
S103	STRUCTURAL SECTIONS - 2
S110	TRUSS PLAN & DETAILS
S111	TRUSS DETAILS
S112	ROOF FRAMING SECTIONS & DETAILS

ELECTRICAL SHEETS

SHEET NUMBER	DESCRIPTION
E1	ELECTRICAL SYMBOLS & ABBREVIATIONS
E2	ONE LINE DIAGRAM & MCC DETAILS
E3	VENTILATION & CONTROL DIAGRAMS
E101	ELECTRICAL PLANS



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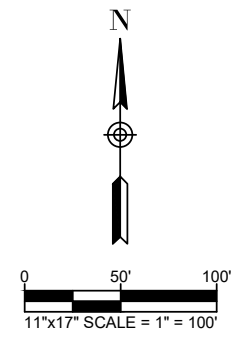
Shawn S. Welte

PROJECT NO. 1188-081.021

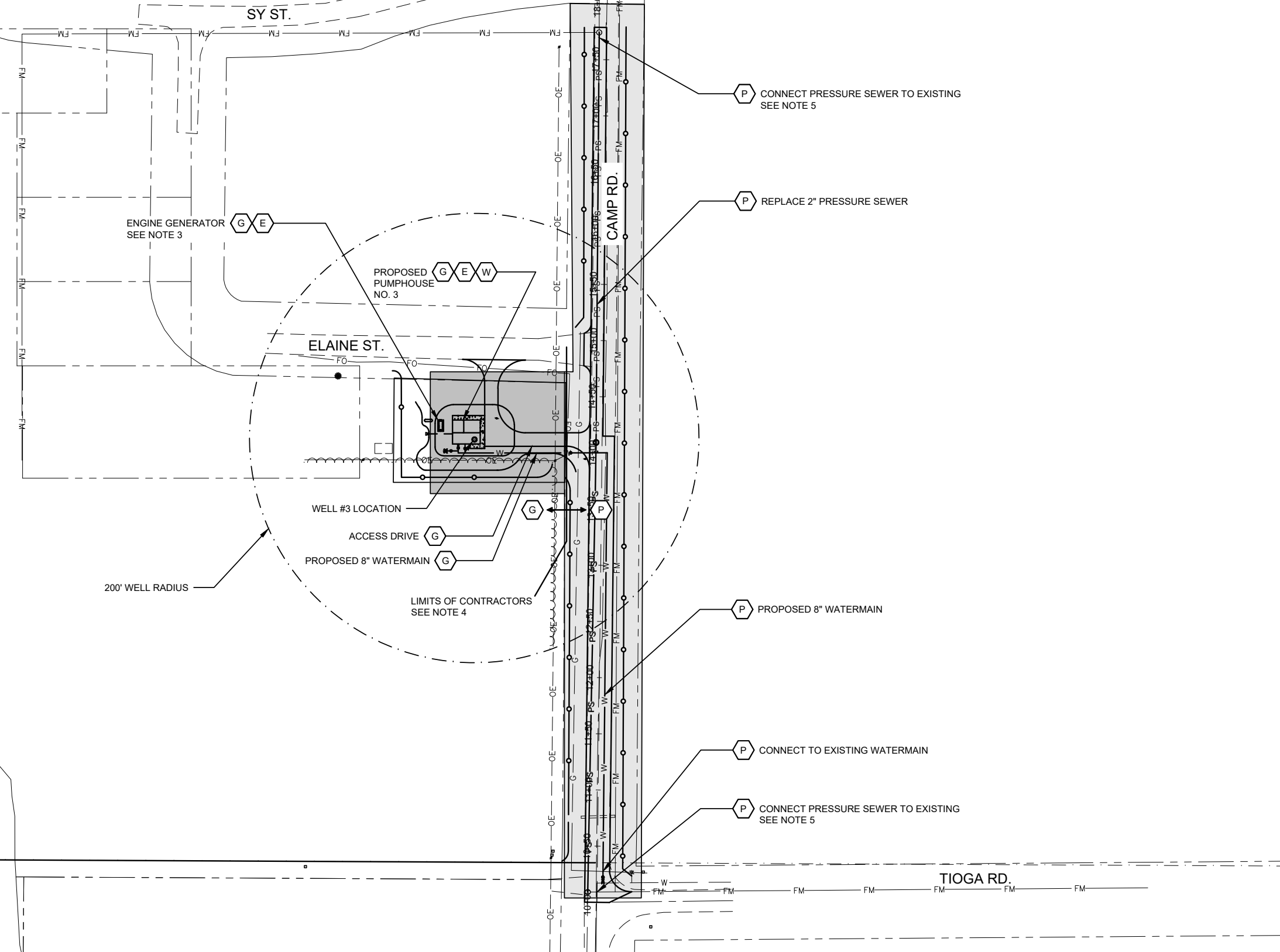
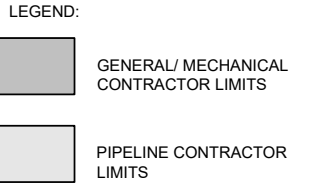
MAY 2026

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FAIRCHILD POND



- NOTES:
- WORK ITEMS INDICATED AS:
 - G** GENERAL/ MECHANICAL CONTRACTOR
 - P** PIPELINE CONTRACTOR
 - W** WELL PUMP CONTRACTOR
 - E** ELECTRICAL CONTRACTOR
 - MINIMUM 7'-0" DEPTH OF BURY FOR WATERMAIN.
 - GENERAL CONTRACTOR TO PROVIDE CONCRETE EQUIPMENT BASE FOR ENGINE GENERATOR BY ELECTRICAL CONTRACTOR. SEE ENGINE GENERATOR SUPPORT DETAIL.
 - WHEN A PIPELINE CONNECTION IS REQUIRED BETWEEN TWO CONTRACTORS, THE CONTRACTOR INSTALLING THE PIPELINE LAST SHALL MAKE AND TEST THE FINAL CONNECTION EXCEPT AS NOTED OTHERWISE. THE FIRST CONTRACTOR SHALL PROVIDE A TEMPORARY CAP OR PLUG.
 - PROVIDE PVC/ HDPE TRANSITION FITTING.



REVISION DATE	REMARKS

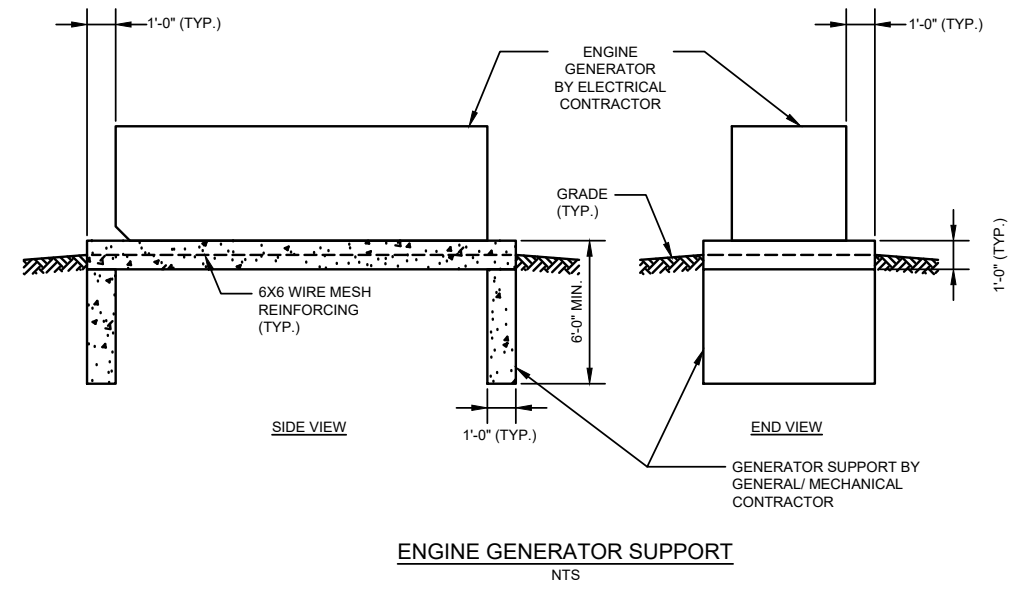
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LA CROSSE, WISCONSIN

PROJECT LOCATION MAP
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:	PROJECT NUMBER
SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
CHECKED: SSW, RAJ	G2
DATE: 05/13/2026	

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TOPOGRAPHIC FEATURES	ABBREVIATIONS	MECHANICAL SYMBOLS
<ul style="list-style-type: none"> —UE— EXISTING UNDERGROUND ELECTRIC CABLE —UT— EXISTING UNDERGROUND TELEPHONE CABLE —OE— EXISTING OVERHEAD ELECTRIC CABLE EXISTING FIBER OPTIC —W— EXISTING WATERMAIN LINE —G— EXISTING UNDERGROUND GAS LINE VEGETATION LINE RAILROAD TRACKS NATURAL WATER FEATURE EXISTING STORM SEWER LINE EXISTING SANITARY SEWER APPROXIMATE RIGHT-OF-WAY LINE RAILROAD RIGHT OF WAY EXISTING PROFILE GRADE - - - - - FENCE —x—x—x— GUARDRAIL PAVED / UNPAVED ROADWAY EXISTING CURB & GUTTER EXISTING ROAD CENTER LINE HOUSE #41 BUILDING W/HOUSE NUMBER HORIZONTAL CONTROL POINT EXISTING GAS VALVE EXISTING UTILITY MANHOLE EXISTING GUY WIRE EXISTING ELECTRIC BOX EXISTING TELEPED EXISTING LIGHT POLE EXISTING POWER POLE EXISTING POLE WITH LIGHT VALVE (V) FIRE HYDRANT WATER SHUT OFF VALVE WELL EXISTING WATERMAIN REDUCER EXISTING CURB INLET EXISTING INLET EXISTING STORM MANHOLE (MH) EXISTING SANITARY MANHOLE (MH) LIFT STATION SOIL BORING LOCATION & NUMBER SIGN MAILBOX 	<ul style="list-style-type: none"> BRUSH TREES STUMP FLAGPOLE EXISTING BOLLARD PROPOSED SANITARY SEWER LINE PROPOSED STORM SEWER LINE PROPOSED WATERMAIN LINE PROPOSED CURB INLET PROPOSED CATCH BASIN PROPOSED STORM MANHOLE (MH) PROPOSED SANITARY MANHOLE (MH) PROPOSED VALVE (V) PROPOSED FIRE HYDRANT PROPOSED WATER SHUT OFF VALVE PROPOSED WATERMAIN REDUCER PROPOSED PAVED ROADWAY REMOVE ITEM OR STRUCTURE TO BE ABANDONED-IN-PLACE HVAC SUPPLY FAN EXHAUST FAN UNIT HEATER WALL LOUVER SUPPLY DUCT INTAKE, RETURN OR EXHAUST DUCT AIR TURNING VANES IN DUCT OPPOSED BLADE DAMPER FIRST DIMENSION, DUCT SIDE SHOWN SECOND DIMENSION, SIDE NOT SHOWN 	<ul style="list-style-type: none"> CENTER LINE PROPERTY LINE DIAMETER ANGLE AT BENCH MARK FLOOR DRAIN FIELD VERIFY REINFORCED CONCRETE PIPE CORRUGATED METAL PIPE CONCRETE CYLINDER PIPE DUCTILE IRON PIPE CENTERS TYPICAL MOTOR CONTROL CENTER MAXIMUM MINIMUM ELEVATION HEATER INVERT DIAMETER CONCRETE SIDEWALK STAINLESS STEEL LINEAL FEET RIGHT-OF-WAY EACH FACE EACH WAY WATERMAIN POTABLE WATER NOT TO SCALE GATE VALVE CONTROL POINT LIGHT POLE POWER POLE SEWAGE FORCEMAIN EROSION CONTROL SYMBOLS SILT FENCE STRAW BALES EROSION MAT TRACKING PAD FLOW DIRECTION PRESSURE GAUGE BALL VALVE FLOWMETER BUTTERFLY VALVE GATE VALVE SWING CHECK VALVE REDUCER FLEXIBLE RUBBER COUPLING FLANGE COUPLING ADAPTER PLUG VALVE BALL CHECK VALVE CENTER GUIDED CHECK VALVE INSULATED PIPE FLANGED JOINT MECHANICAL JOINT MECHANICAL PIPE COUPLING WELDED STEEL PIPE NEEDLE VALVE VALVE WITH ACTUATOR S - SOLENOID P - PNEUMATIC M - MOTOR T - THERMOSTATIC HYDRAULICALLY ACTUATED VALVE RELIEF VALVE ANGLE VALVE, HOSE BIB STRAINER GAUGE P - PRESSURE T - TEMPERATURE SWITCH PS - PRESSURE TS - TEMPERATURE FL - FLOW UNION 3 - WAY VALVE FLOOR DRAIN CLEAN OUT SANITARY TRAP



GENERAL PROJECT NOTES:

- DRAWINGS ARE SUBDIVIDED AND GIVEN THE FOLLOWING PREFIXES TO THEIR NUMBER THAT CORRELATES WITH THE WORK TO BE PERFORMED:

G - GENERAL	M - MECHANICAL
C - CIVIL	E - ELECTRICAL
A - ARCHITECTURAL	P - PIPELINE
S - STRUCTURAL	W - WELL PUMP
I - INSTRUMENTATION	
- DRAWINGS FOR THE PROJECT ARE NUMBERED AS FOLLOWS:

1 - 99 - GENERAL INFORMATION
100 - 199 - PUMPHOUSE NO. 3

UNDERGROUND UTILITIES

THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE PLAN HAVE BEEN OBTAINED BY FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. WHILE IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, DAVY ENGINEERING COMPANY DOES NOT GUARANTEE THEIR ACCURACY NOR THEIR COMPLETENESS. THE CONTRACTOR SHALL VERIFY LOCATIONS WITH UTILITY COMPANIES BEFORE MAKING ANY EXCAVATIONS.

REVISION DATE	REMARKS

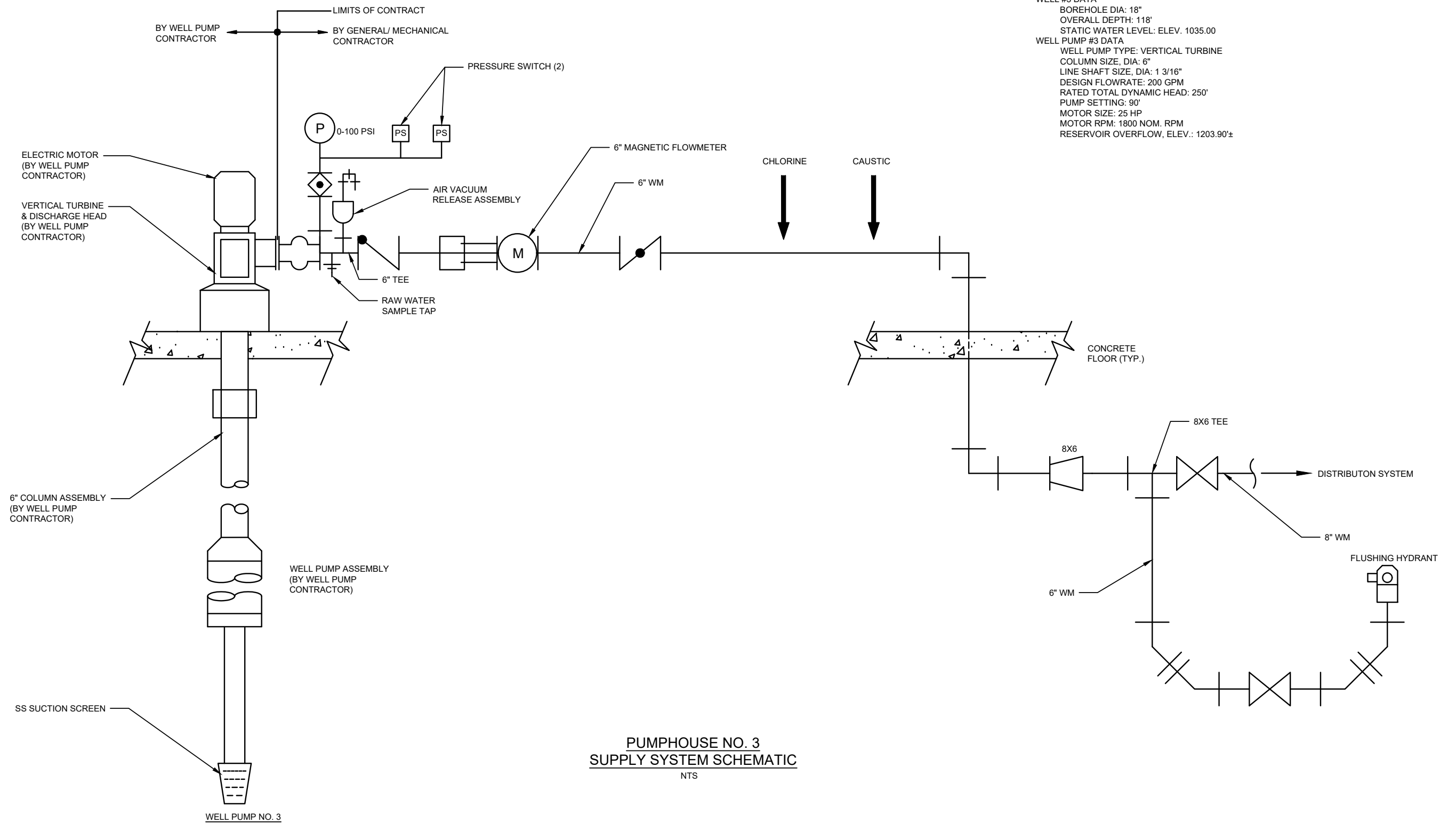
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LA CROSSE, WISCONSIN

GENERAL NOTES, ABBREVIATIONS, & DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

PROJECT NUMBER	1188-081
SHEET NO.	G3
FIELDBOOK:	
SCALE: AS SHOWN	
DRAWN: ETE	
CHECKED: SSW, RAJ	
DATE: 05/13/2026	

WELL & WELL PUMP NO. 3 DATA (BY WELL PUMP CONTRACTOR)

WELL #3 DATA
 BOREHOLE DIA: 18"
 OVERALL DEPTH: 118'
 STATIC WATER LEVEL: ELEV. 1035.00
 WELL PUMP #3 DATA
 WELL PUMP TYPE: VERTICAL TURBINE
 COLUMN SIZE, DIA: 6"
 LINE SHAFT SIZE, DIA: 1 3/16"
 DESIGN FLOWRATE: 200 GPM
 RATED TOTAL DYNAMIC HEAD: 250'
 PUMP SETTING: 90'
 MOTOR SIZE: 25 HP
 MOTOR RPM: 1800 NOM. RPM
 RESERVOIR OVERFLOW, ELEV.: 1203.90±



**PUMPHOUSE NO. 3
 SUPPLY SYSTEM SCHEMATIC**
 NTS

REVISION DATE	REMARKS



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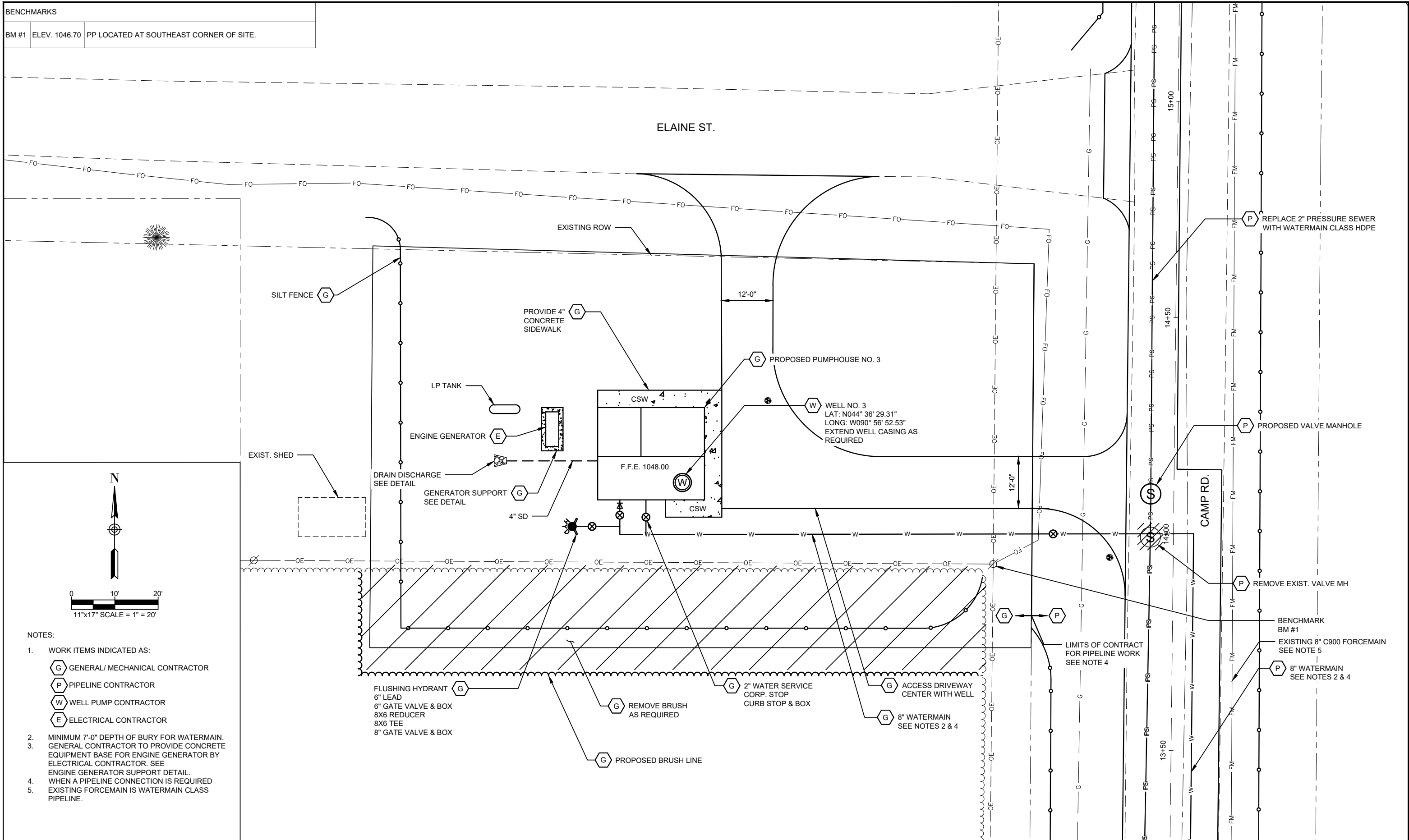
**PROCESS SCHEMATIC & DESIGN DATA
 PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
 VILLAGE OF FAIRCHILD, WISCONSIN**

FIELDBOOK:
 SCALE: AS SHOWN
 DRAWN: ETE
 CHECKED: SSW, RAJ
 DATE: 05/13/2026

PROJECT NUMBER
 1188-081
 SHEET NO.
G4

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BENCHMARKS		
BM #1	ELEV. 1046.70	PP LOCATED AT SOUTHEAST CORNER OF SITE.



- NOTES:
- WORK ITEMS INDICATED AS:
 - G** GENERAL/ MECHANICAL CONTRACTOR
 - P** PIPELINE CONTRACTOR
 - W** WELL PUMP CONTRACTOR
 - E** ELECTRICAL CONTRACTOR
 - MINIMUM 7'-0" DEPTH OF BURY FOR WATERMAIN.
 - GENERAL CONTRACTOR TO PROVIDE CONCRETE EQUIPMENT BASE FOR ENGINE GENERATOR BY ELECTRICAL CONTRACTOR. SEE ENGINE GENERATOR SUPPORT DETAIL.
 - WHEN A PIPELINE CONNECTION IS REQUIRED EXISTING FORCEMAIN IS WATERMAIN CLASS PIPELINE.

REVISION DATE	REMARKS

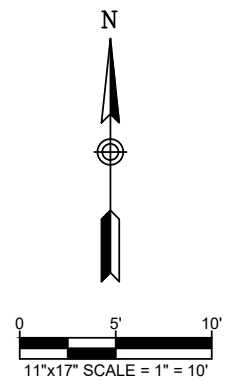
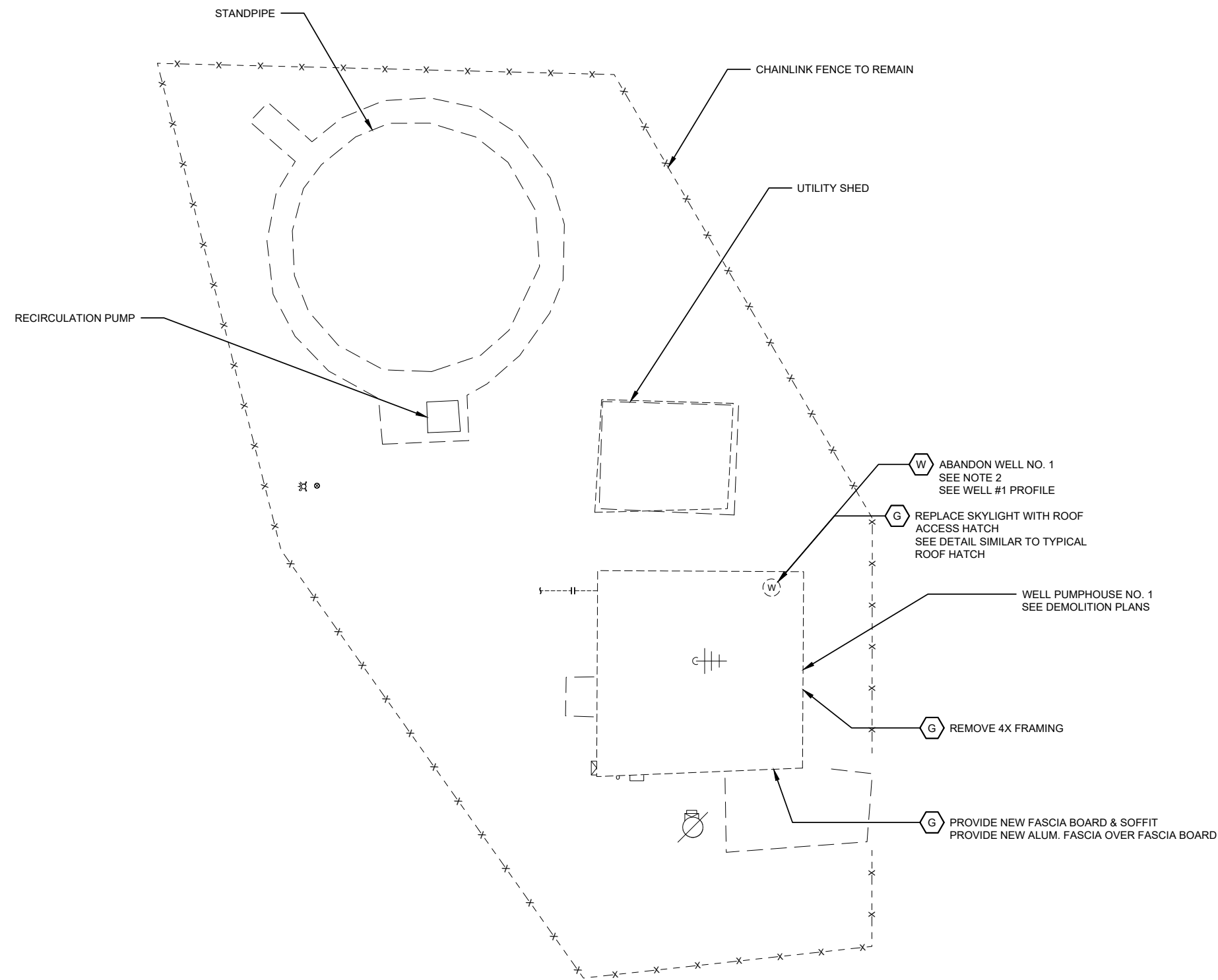
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**GENERAL SITE PLAN
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN**

PROJECT NUMBER	1188-081
SHEET NO.	G10
FIELDBOOK:	SCALE: AS SHOWN
DRAWN: ETE	CHECKED: SSW, RAJ
DATE: 05/13/2026	

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- NOTES:
- WORK ITEMS ARE INDICATED AS:
 - G GENERAL/ MECHANICAL CONTRACTOR
 - E ELECTRICAL CONTRACTOR
 - W WELL & WELL PUMP CONTRACTOR
 - COORDINATE WELL ABANDONMENT WITH BUILDING DEMOLITION. BY GENERAL/ MECHANICAL CONTRACTOR.

REVISION DATE	REMARKS

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**PUMPHOUSE NO. 1 WORK & WELL ABANDONMENT PLAN
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN**

FIELDBOOK:	PROJECT NUMBER
SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
CHECKED: SSW, RAJ	G51
DATE: 05/13/2026	

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- SALVAGE CHEMICAL METERING PUMPS (G)
- SALVAGE CHEMICAL STORAGE TANKS (G)
- PROVIDE BLIND FLANGE (G)
- REMOVE EXPOSED PIPING, VALVES, FLOWMETER, & APPURTENANCES. (G)

- REMOVE WELL PUMP MOTOR (W)
- REMOVE DISCHARGE HEAD ABANDON WELL (W)



- NOTES:
1. WORK ITEMS ARE INDICATED AS:
 - (G) GENERAL CONTRACTOR
 - (E) ELECTRICAL CONTRACTOR
 - (W) WELL & WELL PUMP CONTRACTOR
 2. OWNER TO DISPOSE OF UNUSED CHEMICAL.



- REMOVE CONDUIT & CONDUCTORS TO WELL PUMP MOTOR (E)

- RTU PANEL TO BE MODIFIED (E)



- SALVAGE CHEMICAL METERING PUMPS (G)
- SALVAGE CHEMICAL STORAGE TANKS (G)
- SALVAGE EYEWASH & SHOWER (G)

REVISION DATE	REMARKS

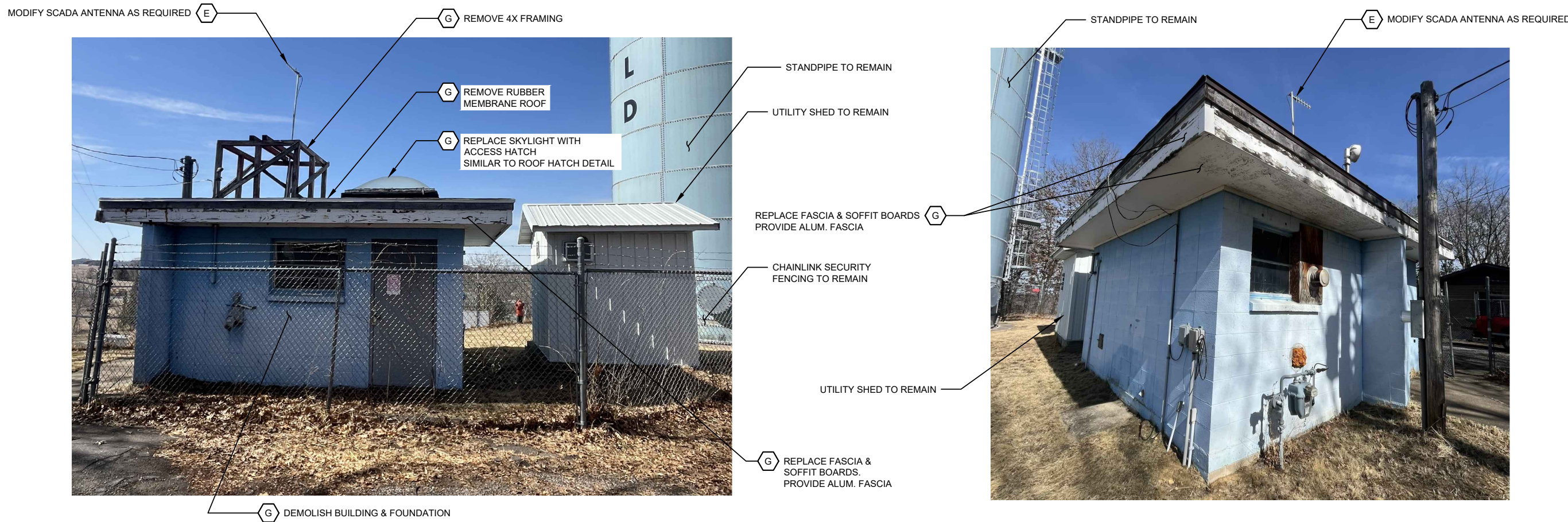


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PUMPHOUSE NO. 1 DEMOLITION DETAILS - 1
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:	PROJECT NUMBER
SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
CHECKED: SSW, RAJ	G52
DATE: 05/13/2026	

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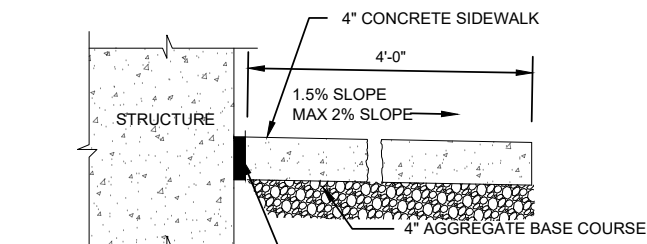
- NOTES:
- WORK ITEMS ARE INDICATED AS:
 - G GENERAL CONTRACTOR
 - E ELECTRICAL CONTRACTOR
 - W WELL & WELL PUMP CONTRACTOR
 - COORDINATE WELL ABANDONMENT WITH GENERAL & ELECTRICAL CONTRACTOR.

REVISION DATE	REMARKS

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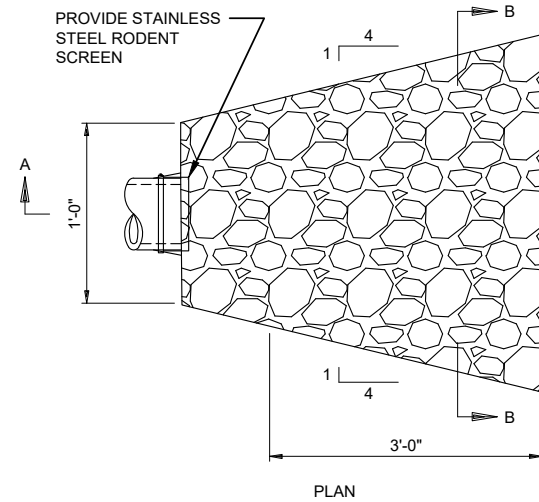
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PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
 VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:	PROJECT NUMBER
SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
CHECKED: SSW, RAJ	G53
DATE: 05/13/2026	

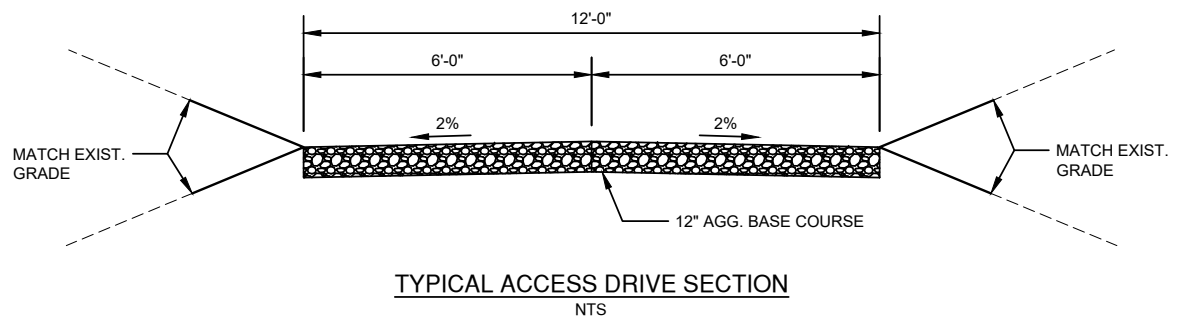
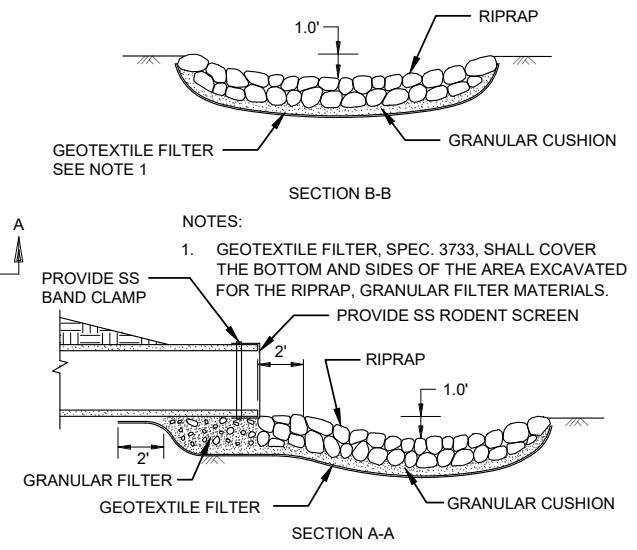


- NOTE:
1. LOCATE 1/2" EXPANSION JOINTS @ 18' MAX SPACING & CHANGES IN DIRECTION.
 2. SLOPE AWAY FROM STRUCTURE @ 1/4" PER FOOT.

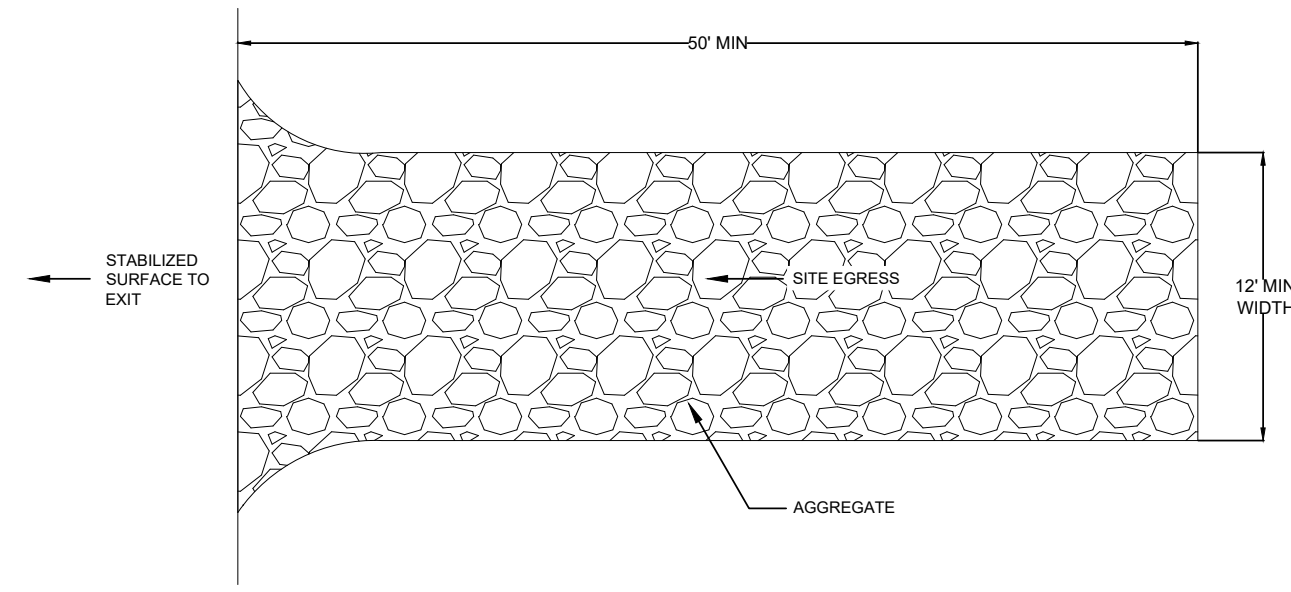
STANDARD SIDEWALK DETAIL
NTS



RIPRAP AT DRAIN OUTLETS
NTS

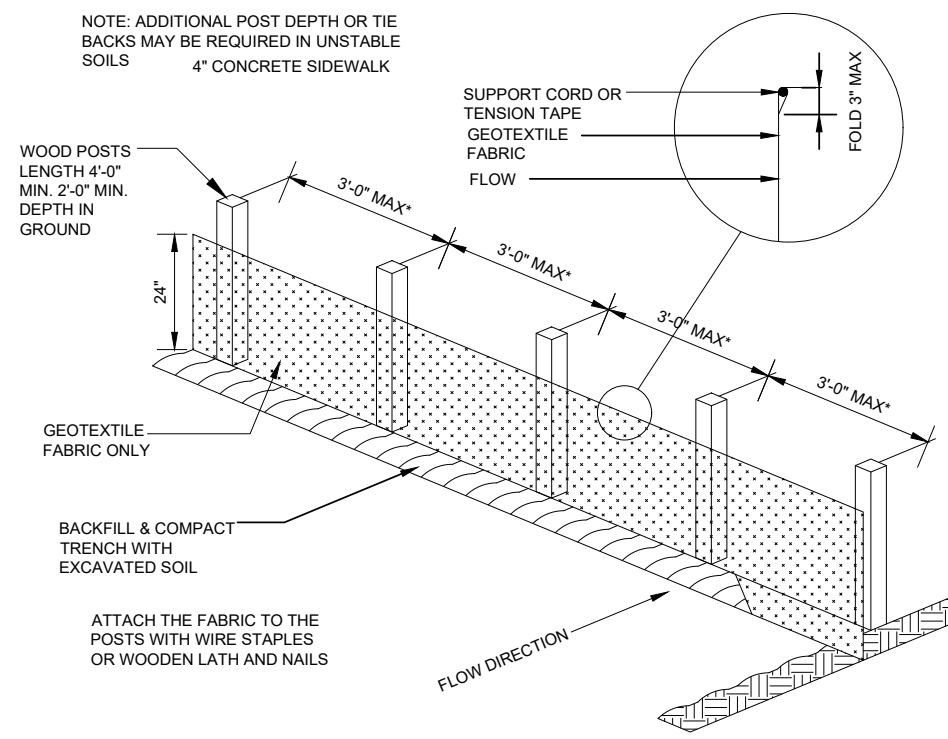


TYPICAL ACCESS DRIVE SECTION
NTS

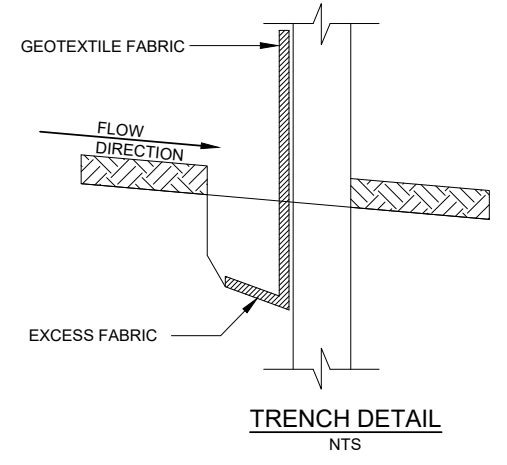


- NOTES:
1. USE HARD, DURABLE, ANGULAR STONE OR RECYCLED CONCRETE MEETING THE GRADATION IN TABLE 1. WHERE THIS GRADATION IS NOT AVAILABLE, MEET THE GRADATION IN WISCONSIN DEPARTMENT OF TRANSPORTATION (DOT) 2018 STANDARD SPECIFICATION, SECTION 312. SELECT CRUSHED MATERIAL.
 2. SLOPE THE STONE TRACKING PAD IN A MANNER TO DIRECT RUNOFF TO AN APPROVED TREATMENT PRACTICE.
 3. SELECT FABRIC TYPE BASED ON SOIL CONDITIONS AND VEHICLES LOADING.
 4. INSTALL TRACKING PAD ACROSS FULL WIDTH OF THE ACCESS POINT, OR RESTRICT EXISTING TRAFFIC TO A DEDICATED EGRESS LANE AT LEAST 12' WIDE ACROSS THE TOP OF THE PAD.
 5. IF A 50' PAD LENGTH IS NOT POSSIBLE DUE TO SITE GEOMETRY, INSTALL THE MAXIMUM LENGTH PRACTICABLE AND SUPPLEMENT WITH ADDITIONAL PRACTICES AS NEEDED.

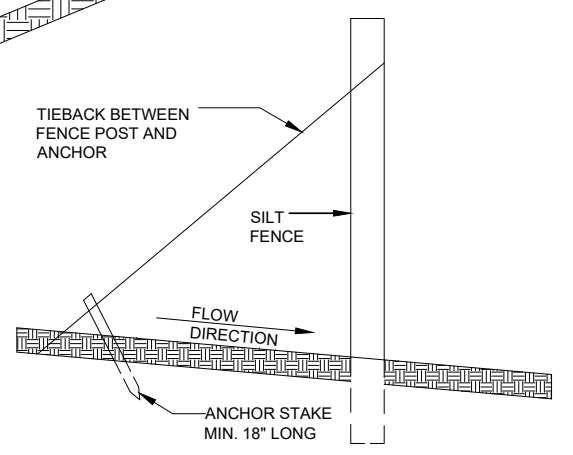
STONE TRACKING PAD DETAIL
NTS



SILT FENCE
NTS



TRENCH DETAIL
NTS



SILT FENCE TIE BACK
(WHEN REQUIRED BY ENGINEER)

REVISION DATE	REMARKS



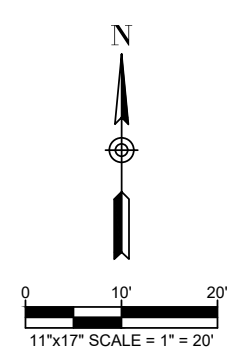
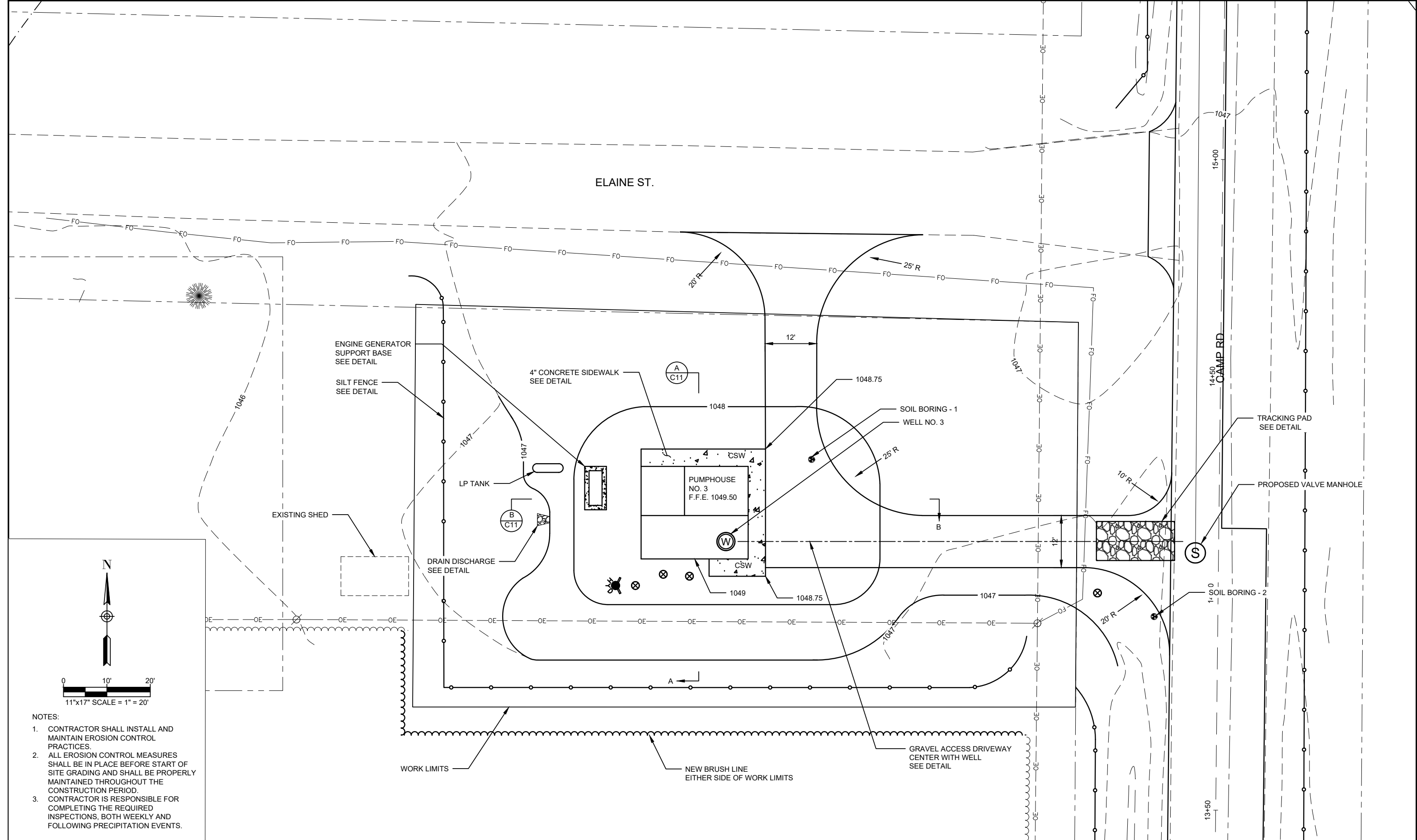
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LA CROSSE, WISCONSIN

CIVIL SITEWORK DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

PROJECT NUMBER	1188-081
SHEET NO.	C1
FIELDBOOK:	SCALE: AS SHOWN
DRAWN: ETE	CHECKED: SSW, RAJ
DATE: 05/13/2026	

H:\AutoCad Drawings\2020\Fairchild\1188-081 CIVIL SITEWORK DETAILS.dwg, 5/13/2026 9:45:00 AM, AutoCAD PDF (General Documentation).pc3

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- NOTES:
1. CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL PRACTICES.
 2. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE START OF SITE GRADING AND SHALL BE PROPERLY MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
 3. CONTRACTOR IS RESPONSIBLE FOR COMPLETING THE REQUIRED INSPECTIONS, BOTH WEEKLY AND FOLLOWING PRECIPITATION EVENTS.

REVISION DATE	REMARKS

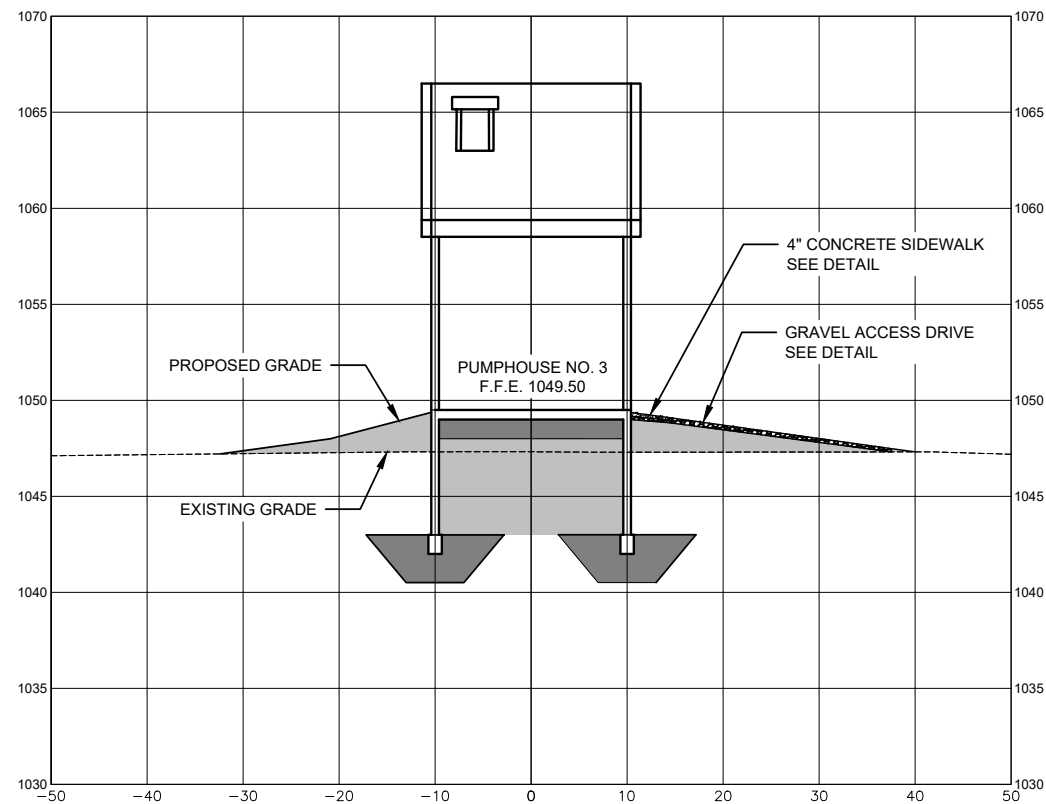


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PUMPHOUSE NO. 3 SITE GRADING PLAN
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

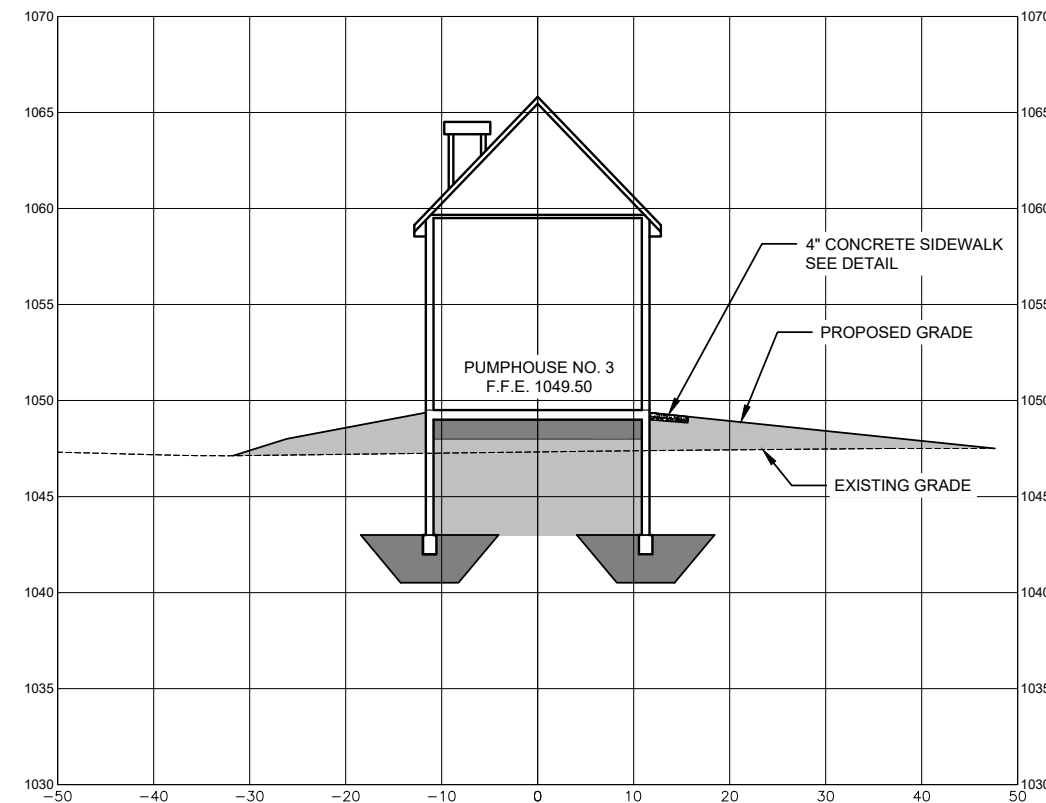
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SCALE: AS SHOWN
DRAWN: ETE
CHECKED: SSW, RAJ
DATE: 05/13/2026

PROJECT NUMBER
1188-081
SHEET NO.
C10



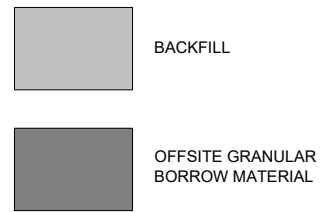
SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 10'

SECTION A-A



SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 10'

SECTION B-B



- NOTES:
1. STRUCTURAL BACKFILL BELOW FOUNDATION SLAB SHALL BE MINIMUM THICKNESS OF 1'-0"

REVISION DATE	REMARKS



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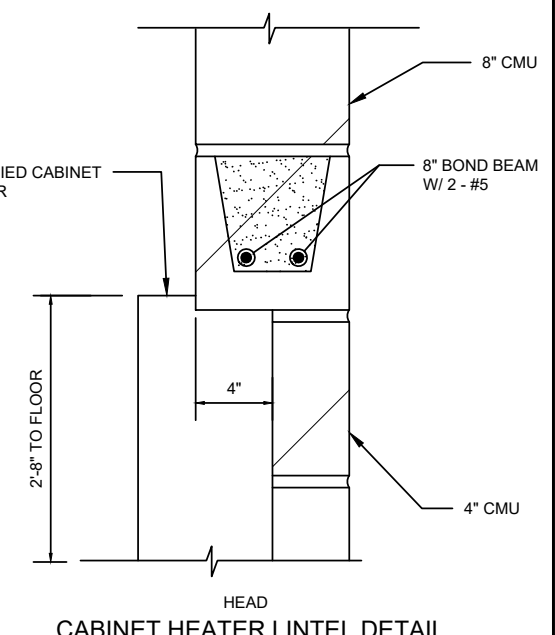
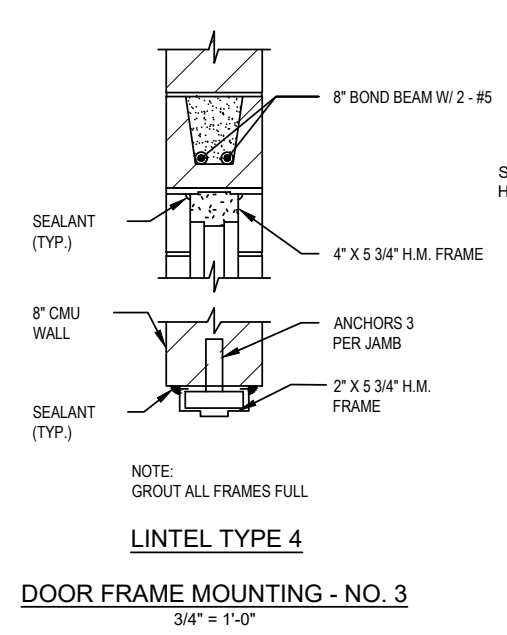
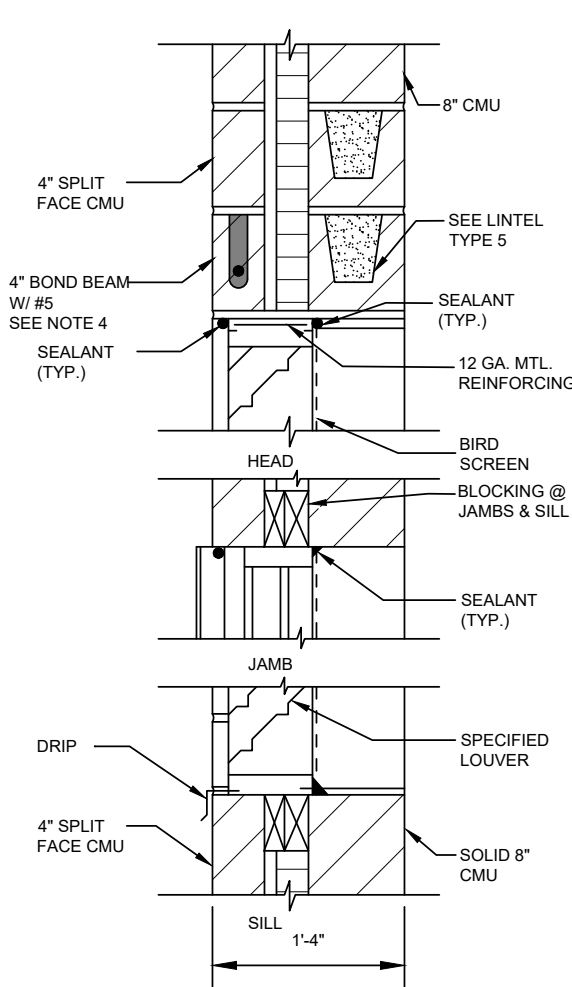
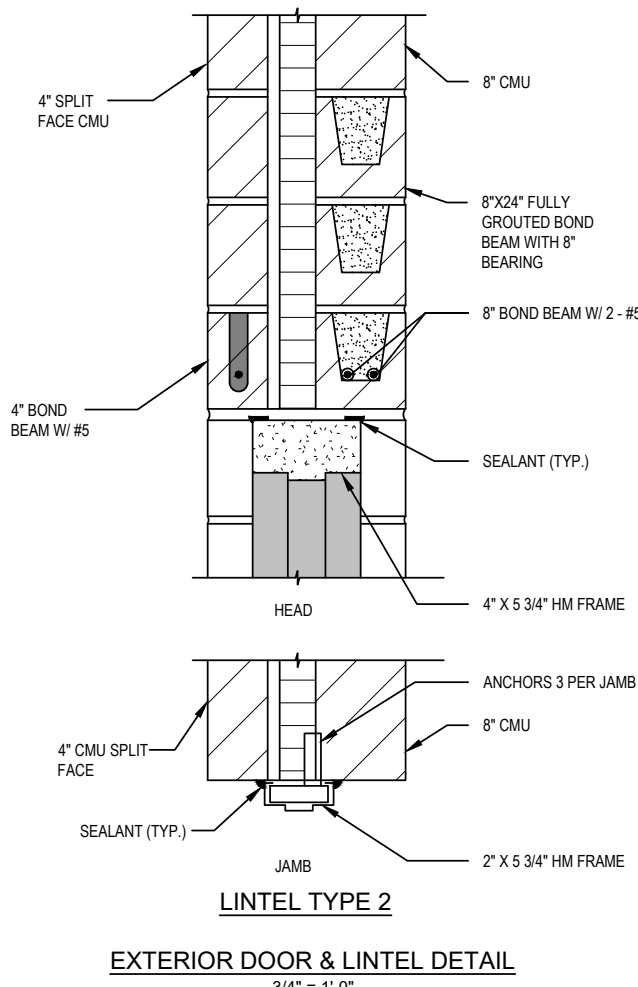
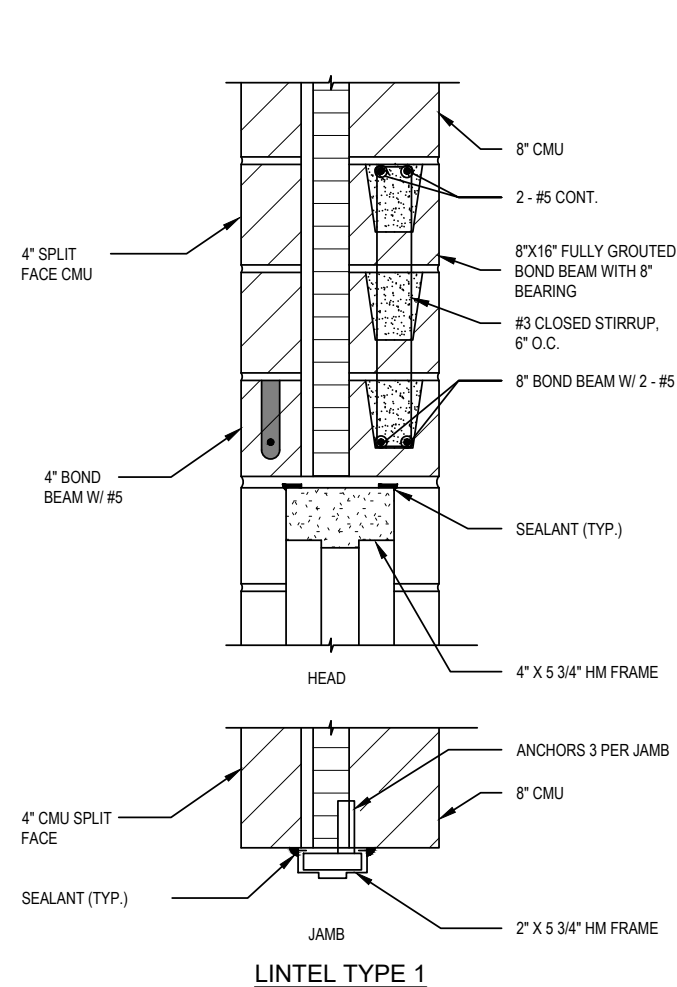
SITE GRADING CROSS SECTIONS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:	PROJECT NUMBER
SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
CHECKED: SSW, RAJ	C11
DATE: 05/13/2026	

PROJECT NUMBER
1188-081
SHEET NO.
C11

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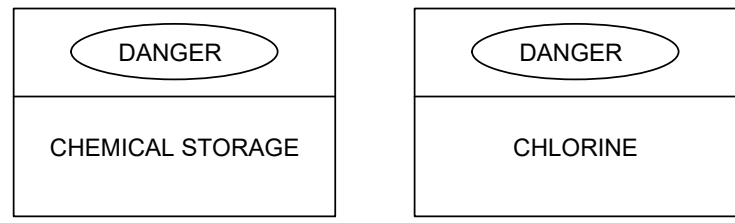
- NOTES:
- SIGNS SHALL BE BRADY ID 131826, 70240, 72408, OR EQUAL.
 - ACID AND CHEMICAL STORAGE SIGNS SHALL BE PLACED ON FLUORIDE ROOM.
 - CHEMICAL STORAGE (CHLORINE AND CAUSTIC) SIGNS SHALL BE PLACED ON CHLORINE BUILDING.
 - REINFORCED MASONRY OR CONCRETE LINTEL BY BLOCK MANUFACTURER. SUBMIT FOR ENGINEER REVIEW. MATCH 4" SPLIT FACE CMU WALL FINISH.

ROOM SCHEDULE

ROOM NO.	ROOM	FLOOR	WALL	CEILING	HEIGHT	REMARKS
1	PUMP ROOM	CONCRETE	MASONRY	DRYWALL (PAINTED)	10'-0"	HARDENED FLOOR
2	ELECTRICAL ROOM	CONCRETE	MASONRY	DRYWALL (PAINTED)	10'-0"	HARDENED FLOOR
3	CHLORINE ROOM	CONCRETE	MASONRY	DRYWALL (PAINTED)	10'-0"	HARDENED FLOOR

DOOR SCHEDULE

DOOR NO.	WIDTH	HEIGHT	DOOR THICKNESS	DOOR & FRAME MATERIAL	FIRE RATING	LINTEL TYPE	REMARKS
1	5'-0"	7'-0"	1 3/4"	INSULATED HOLLOW METAL		2	DOUBLE DOOR
2	3'-0"	7'-0"	1 3/4"	INSULATED HOLLOW METAL		1	
3	3'-0"	7'-0"	1 3/4"	INSULATED HOLLOW METAL		4	
4	3'-0"	7'-0"	1 3/4"	INSULATED HOLLOW METAL		1	
5	3'-0"	7'-0"	1 3/4"	INSULATED HOLLOW METAL		1	SEE SAFETY SIGN DETAIL



SAFETY SIGN
NTS

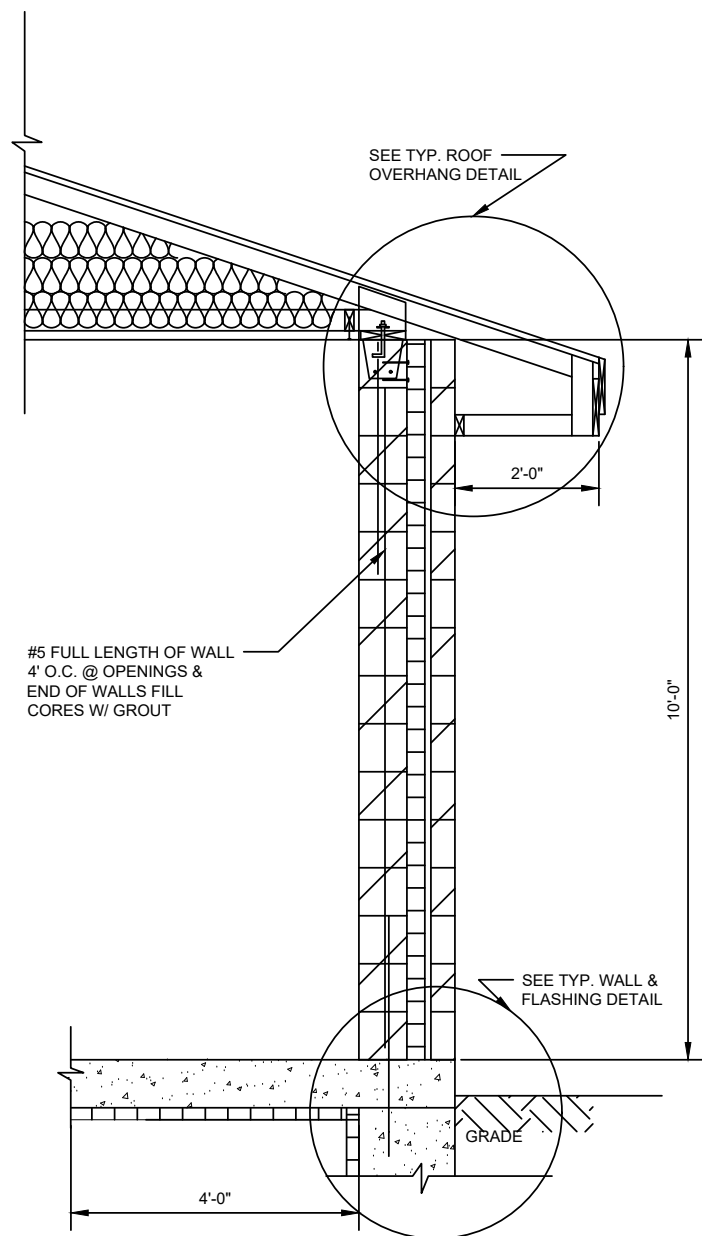
REVISION DATE	REMARKS

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LA CROSSE, WISCONSIN

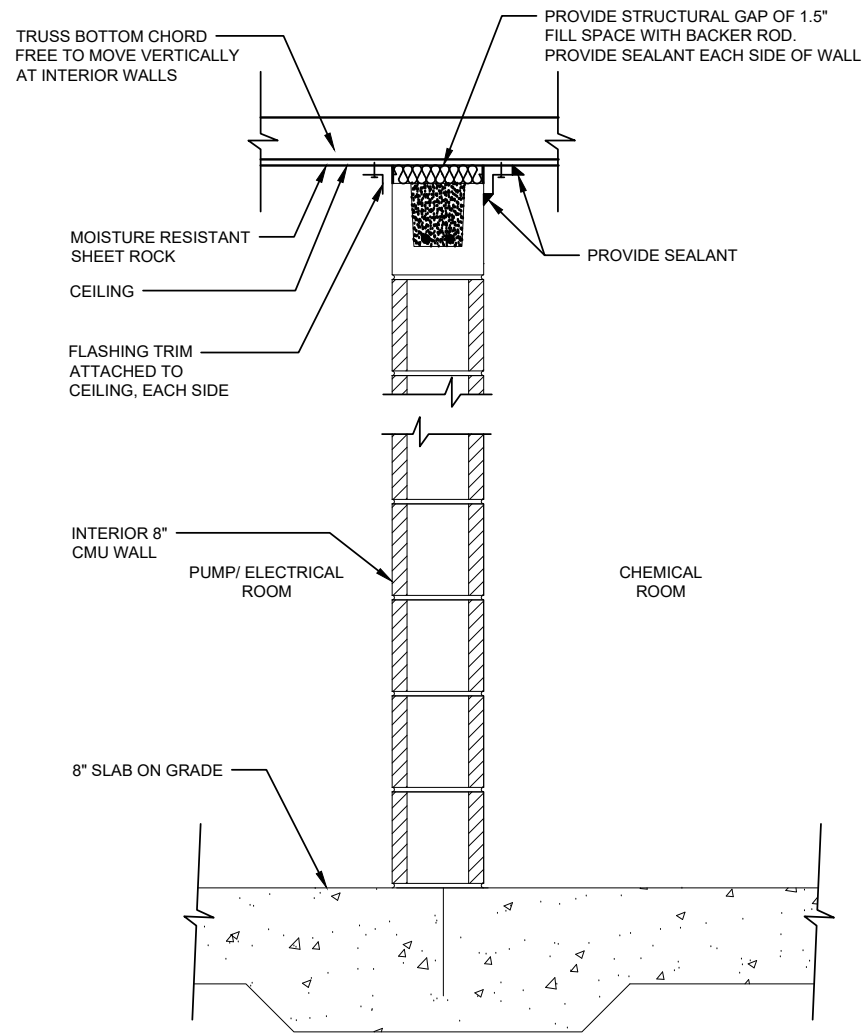
SCHEDULES & DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

PROJECT NUMBER	1188-081
SHEET NO.	A1
FIELDBOOK:	SCALE: AS SHOWN
DRAWN: ETE	CHECKED: SSW, LLN
DATE: 05/13/2026	

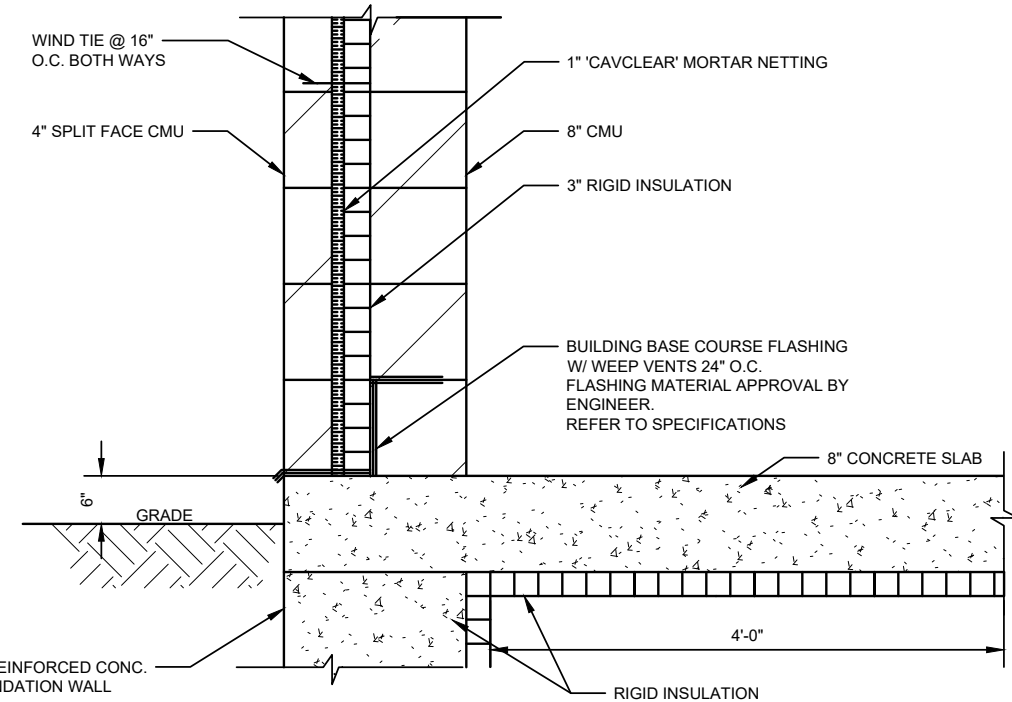
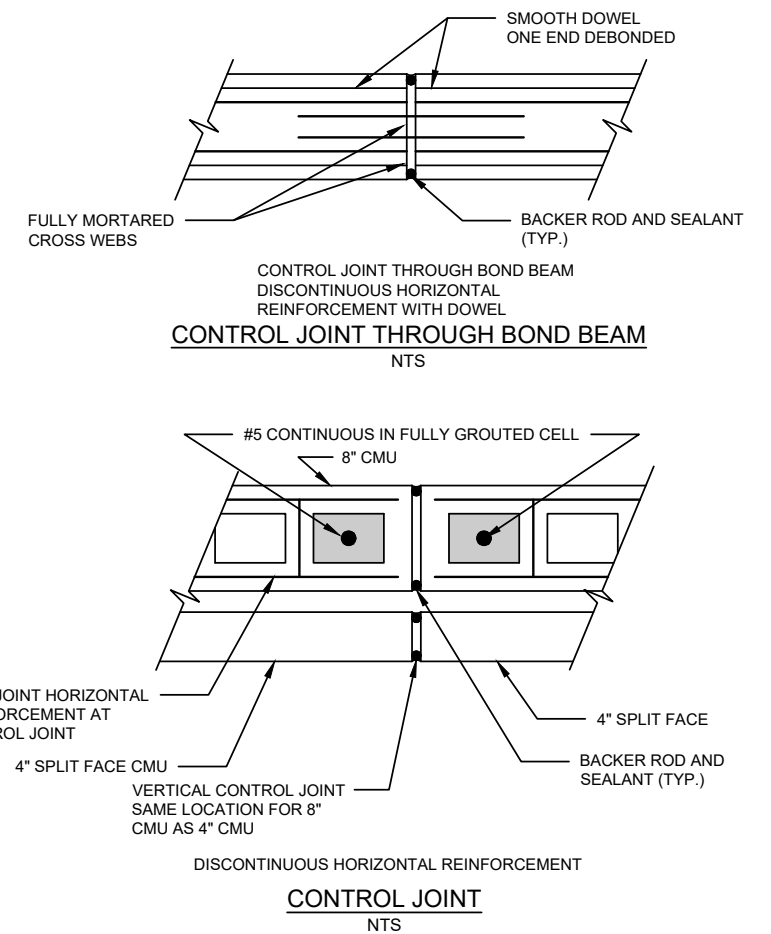
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TYPICAL WALL REINFORCING DETAIL
3/8" = 1'-0"



INTERIOR CMU WALL DETAIL
3/4" = 1'-0"



TYPICAL FOUNDATION WALL & FLASHING DETAIL
3/4" = 1'-0"

REVISION DATE	REMARKS

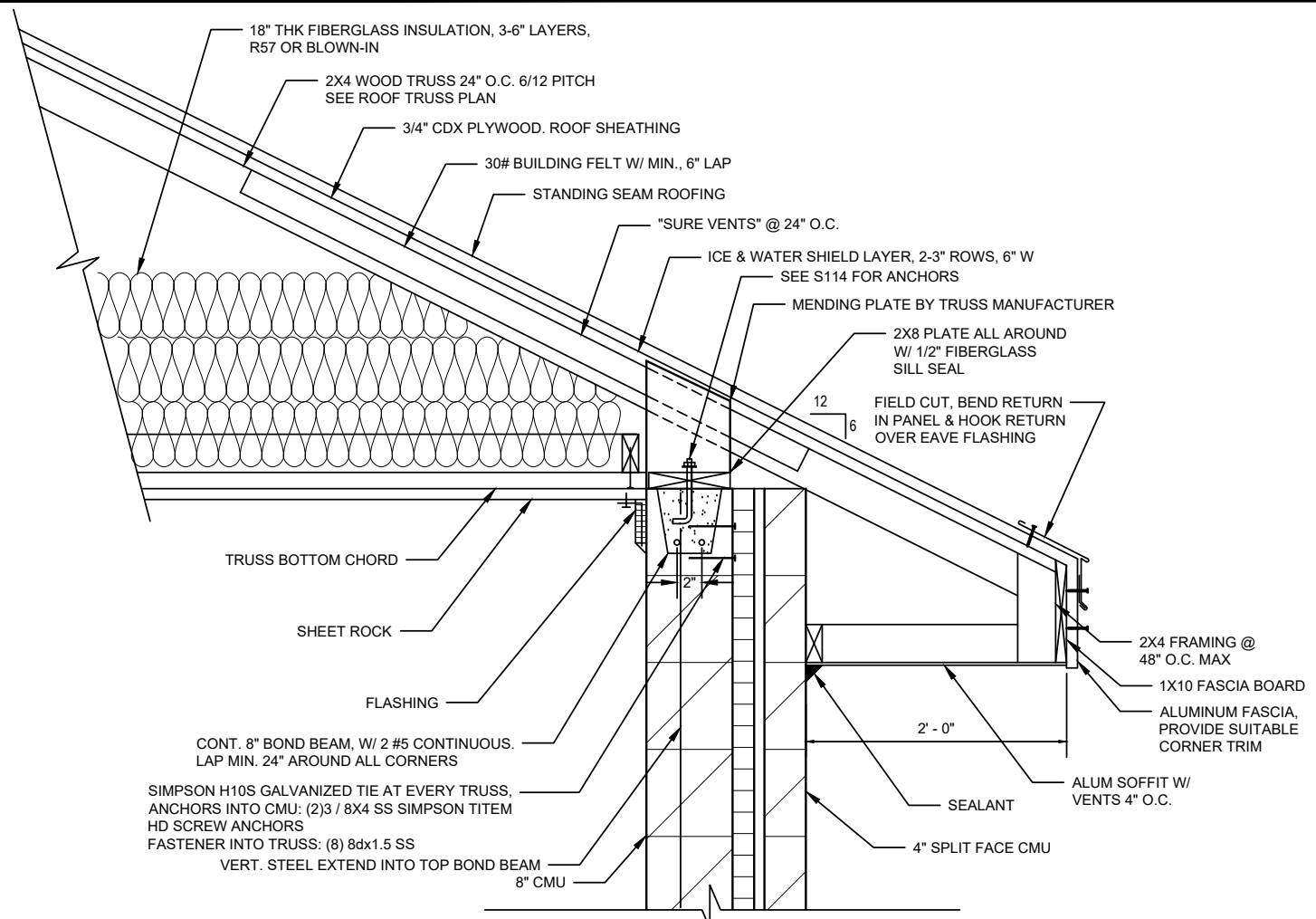


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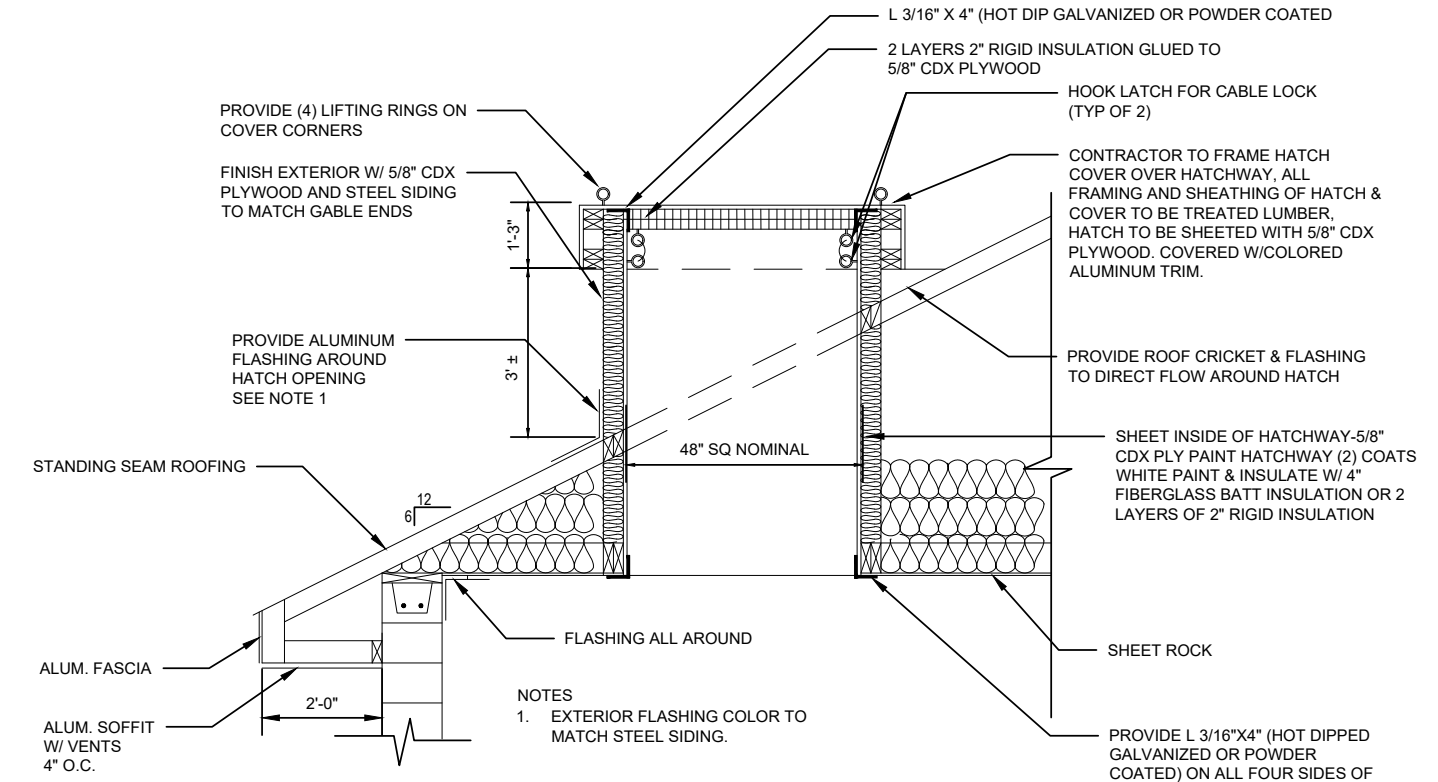
ARCHITECTURAL DETAILS - 1
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:
SCALE: AS SHOWN
DRAWN: ETE
CHECKED: SSW, LLN
DATE: 05/13/2026

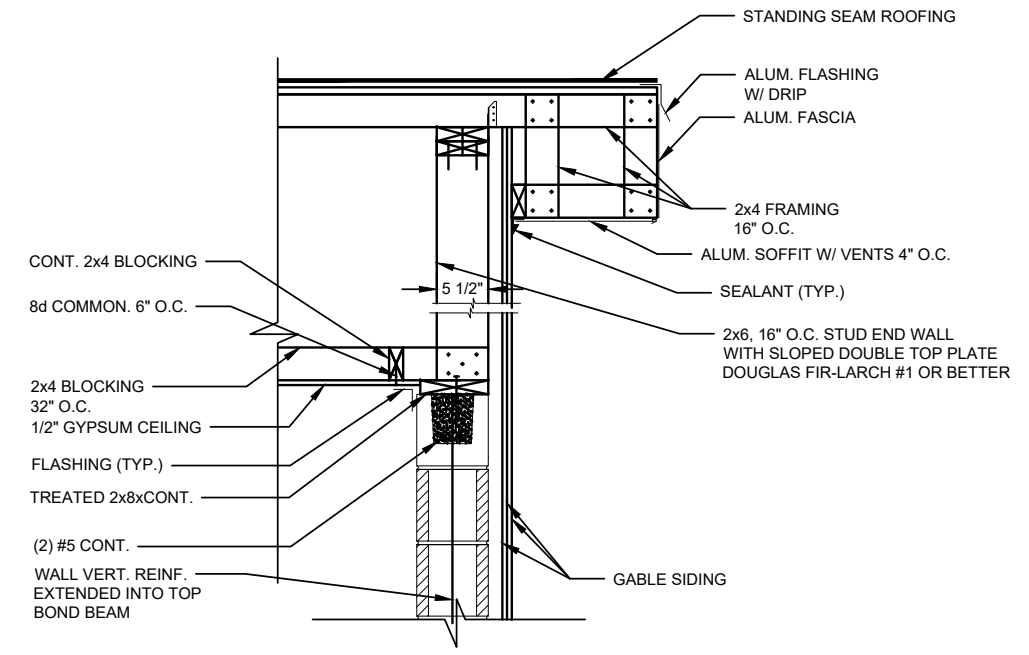
PROJECT NUMBER
1188-081
SHEET NO.
A2



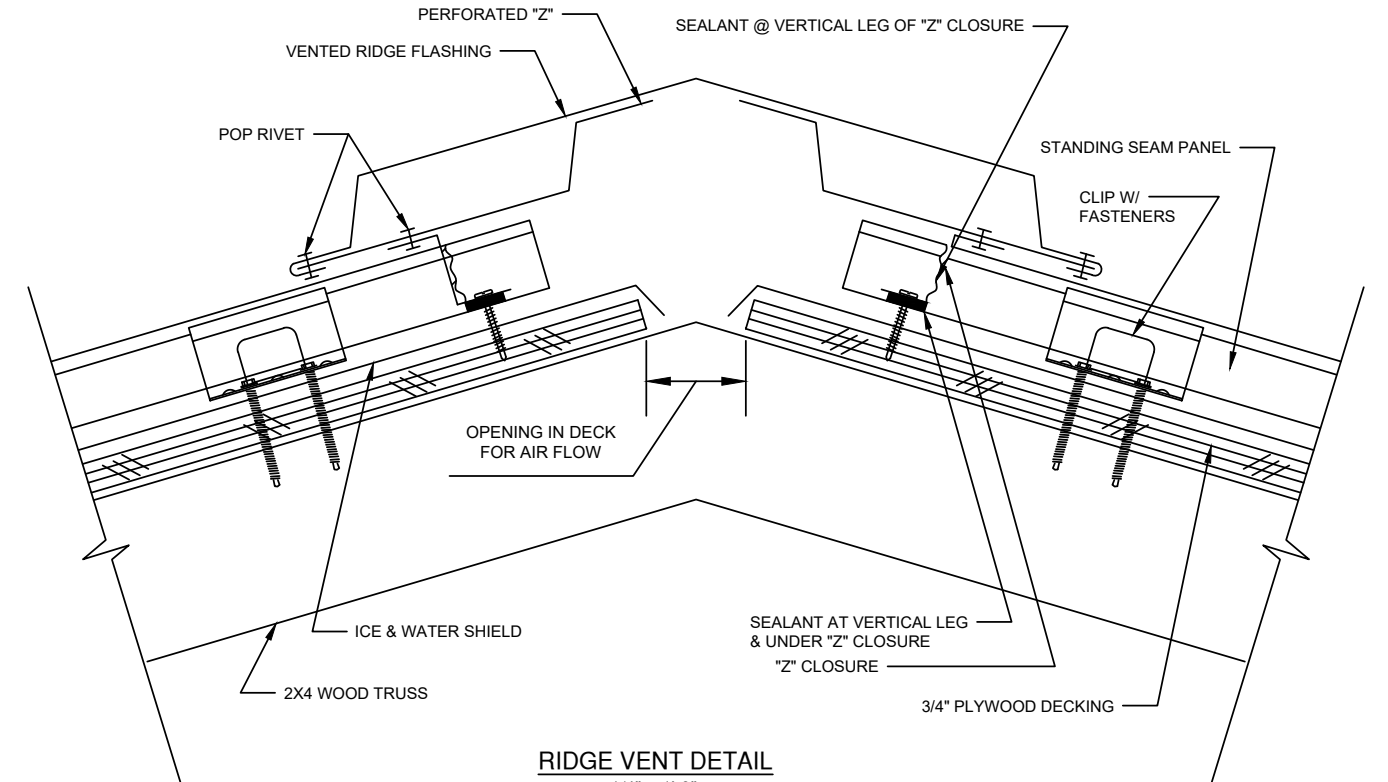
TYPICAL ROOF OVERHANG DETAIL
3/4" = 1'-0"



TYPICAL ROOF HATCH DETAIL
1/8" = 1'-0"



GABLE END OVERHANG DETAIL
NTS



RIDGE VENT DETAIL
1/4" = 1'-0"

REVISION DATE	REMARKS



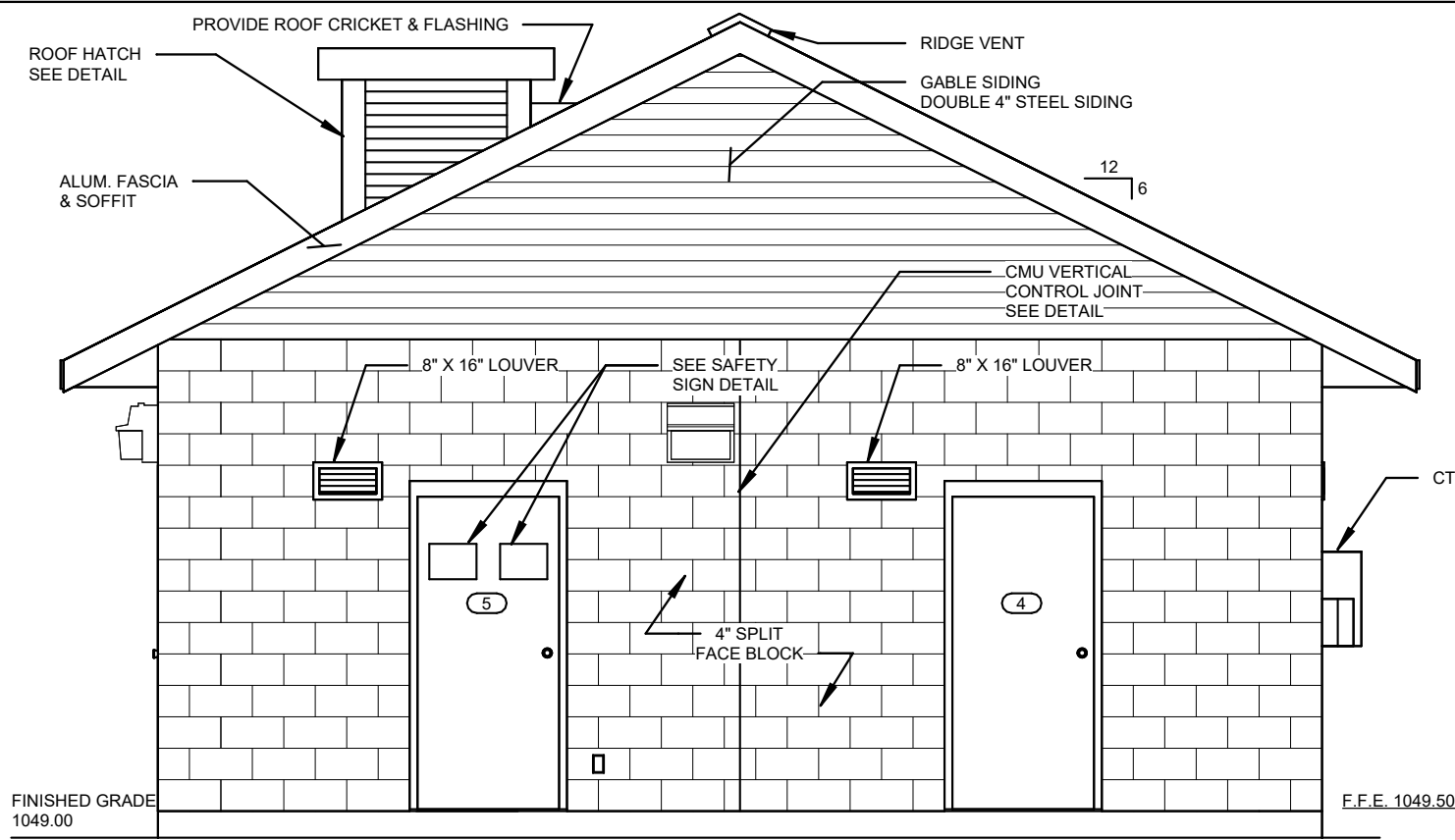
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LA CROSSE, WISCONSIN

ARCHITECTURAL DETAILS - 2
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

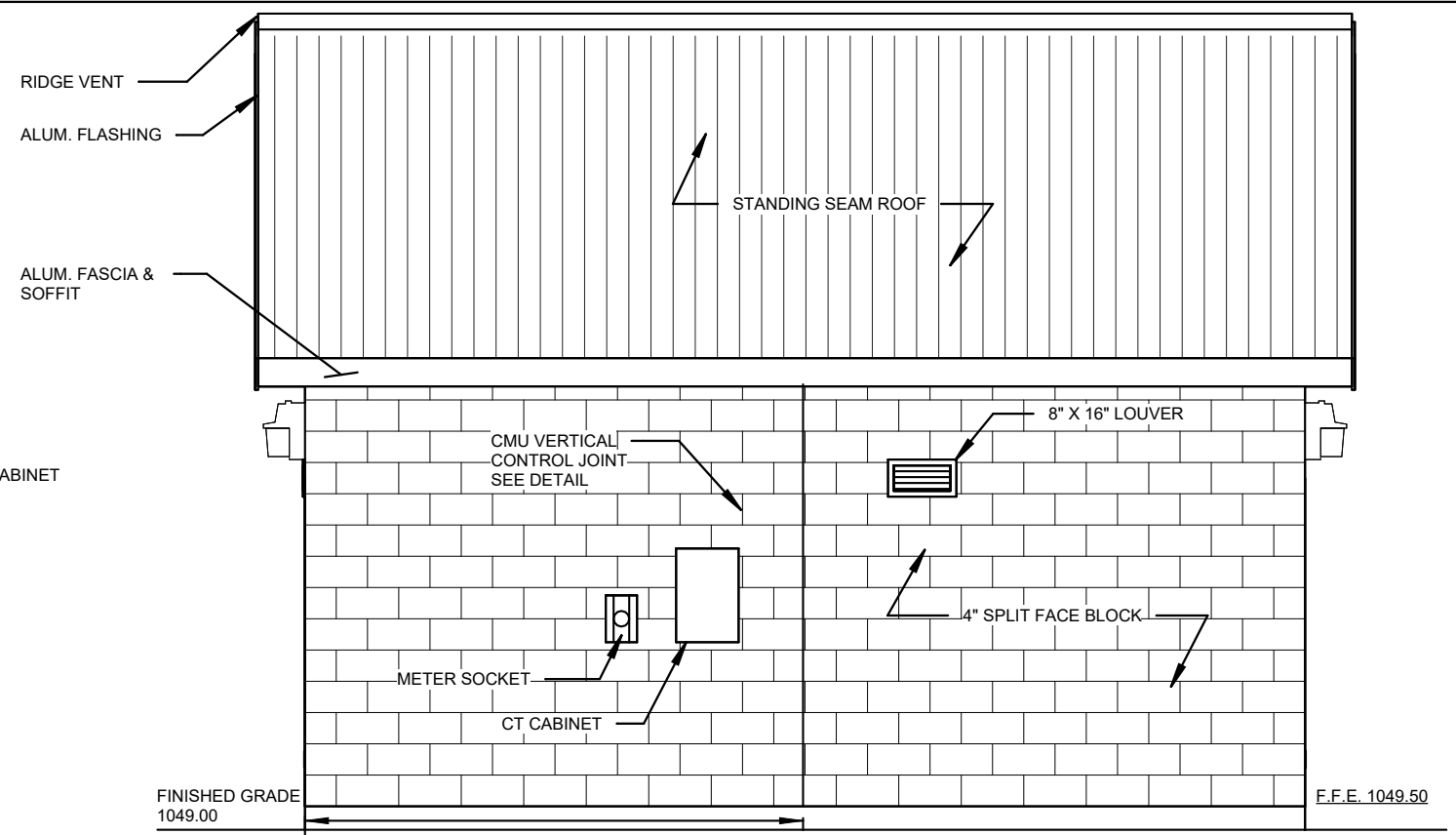
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CHECKED: SSW, LLN
DATE: 05/13/2026

PROJECT NUMBER
1188-081
SHEET NO.
A3

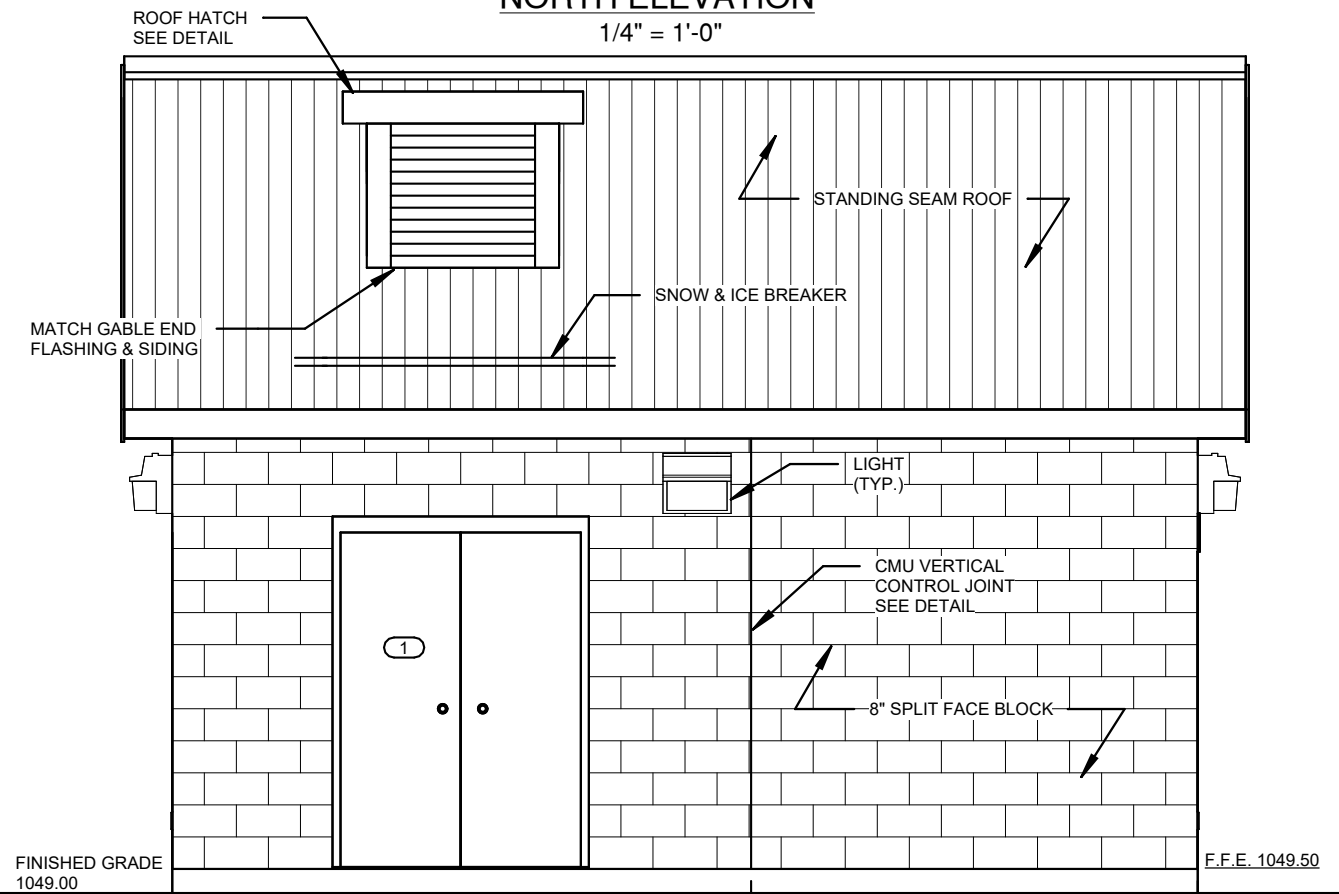
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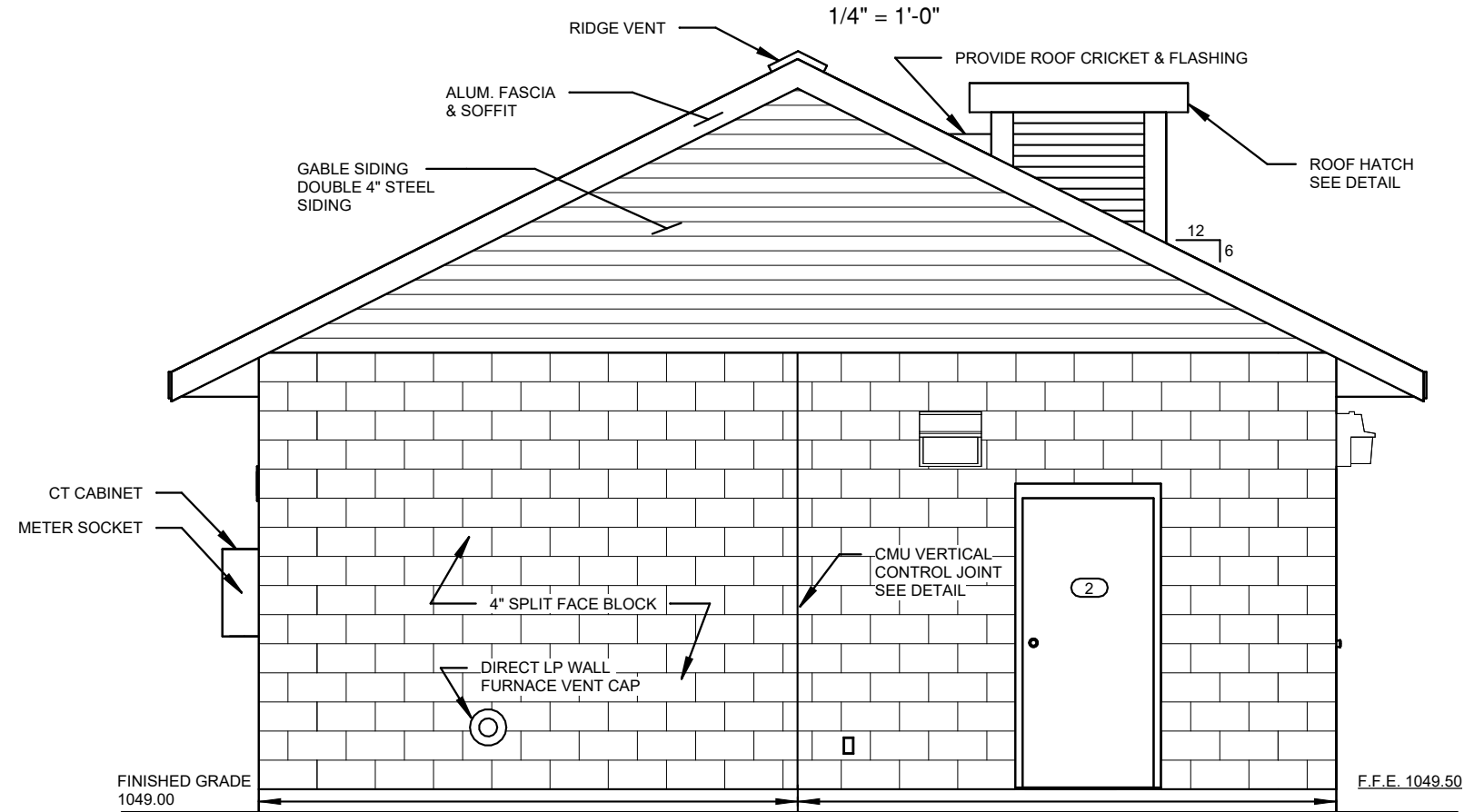
NORTH ELEVATION
1/4" = 1'-0"



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



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



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

REVISION DATE	REMARKS

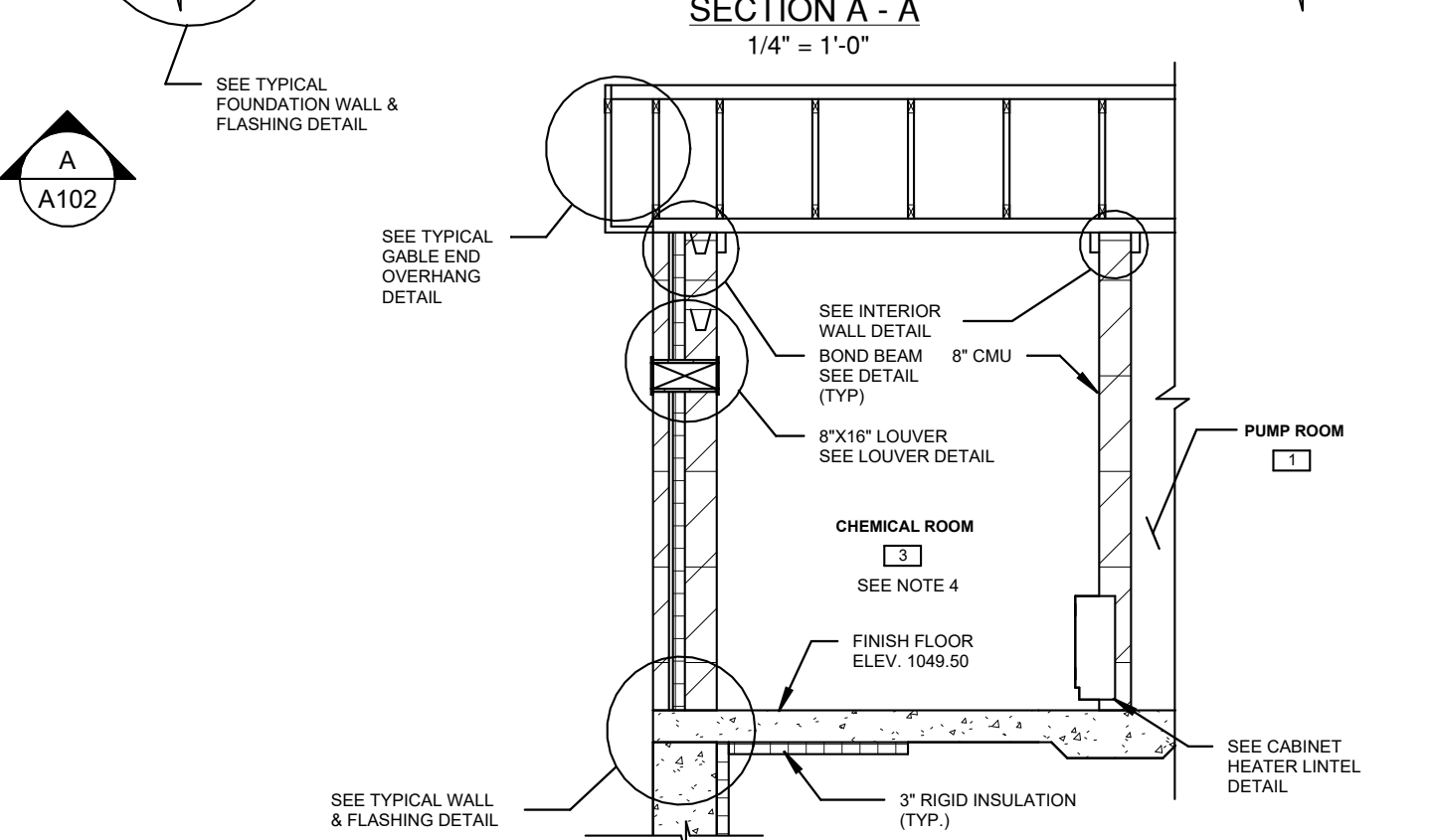
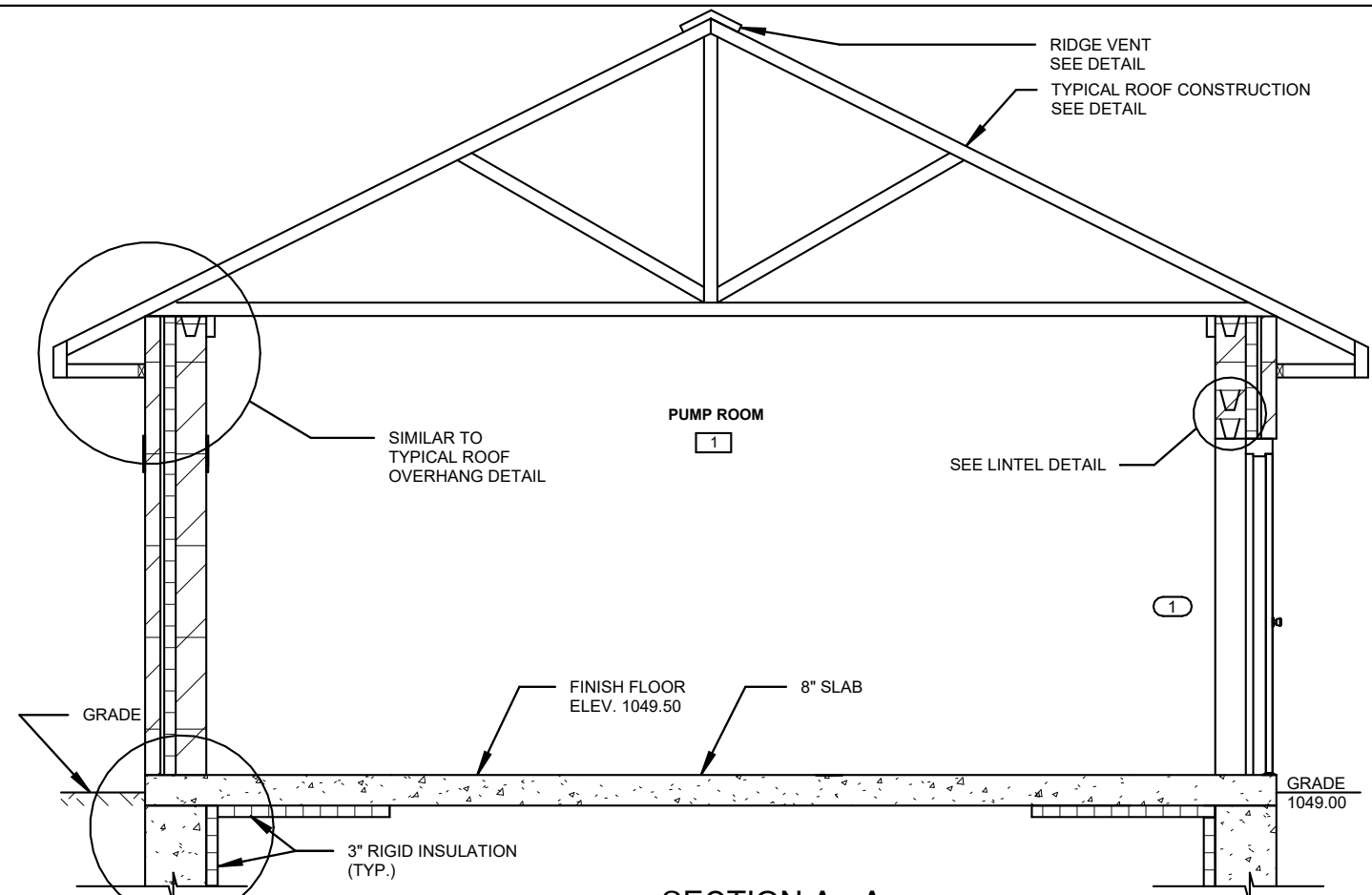
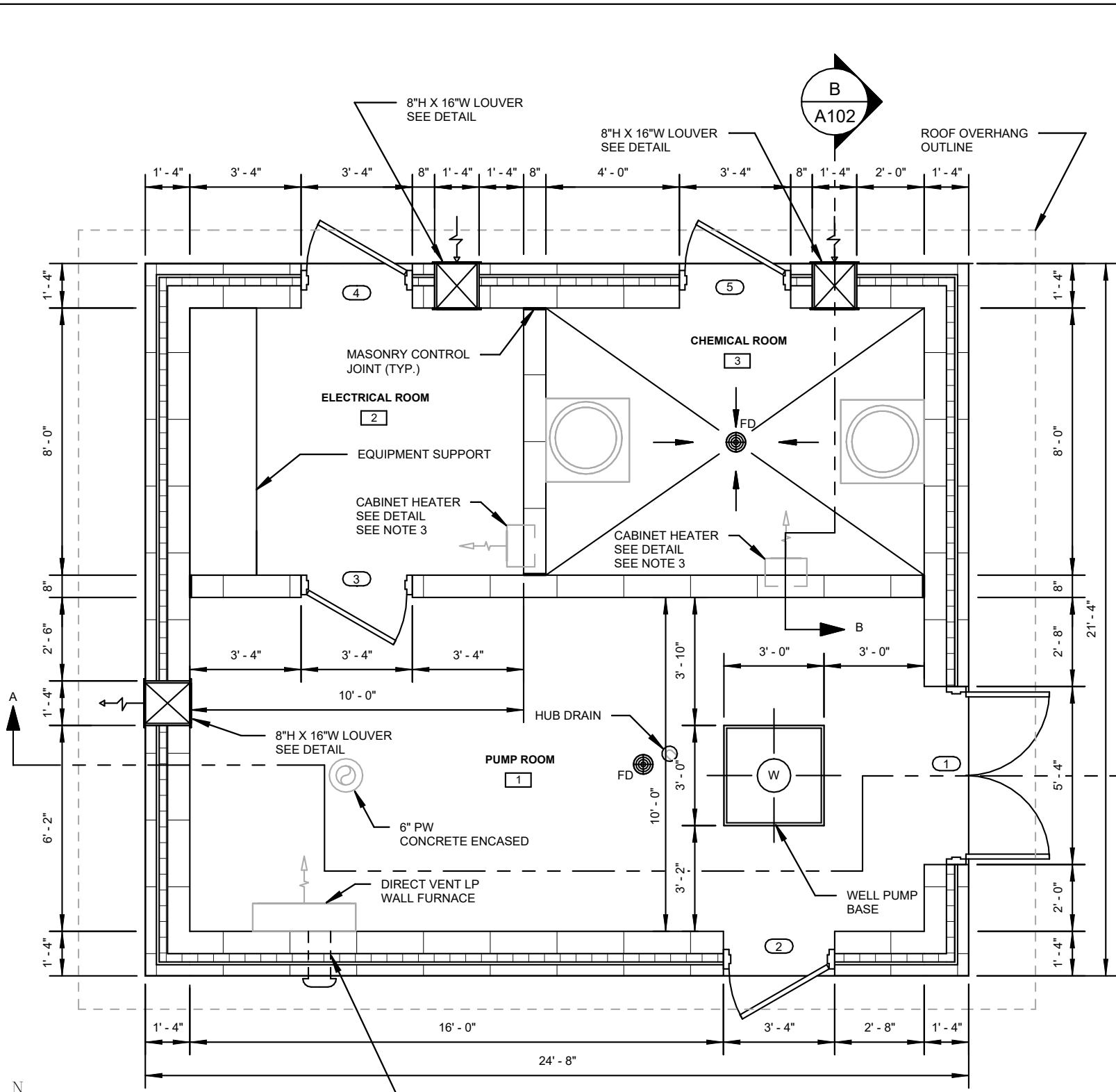


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BUILDING ELEVATIONS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:
SCALE: AS SHOWN
DRAWN: ETE
CHECKED: SSW, LLN
DATE: 05/13/2026

PROJECT NUMBER
1188-081
SHEET NO.
A101



- NOTES:
1. SLOPE FLOOR 1/4" PER FOOT TO FLOOR DRAINS IN CHEMICAL ROOM.
 2. SLOPE FLOOR 1/8" PER FOOT TO FLOOR DRAIN IN PUMP ROOM
 3. CABINET HEATER BY ELECTRICAL CONTRACTOR RECESSED INTO MASONRY WALL BY GENERAL CONTRACTOR.
 4. CHEMICAL ROOM SHALL BE SEALED GAS TIGHT FROM ALL OTHER ROOMS.

FLOOR PLAN
1/4" = 1'-0"

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

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

REVISION DATE	REMARKS



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LA CROSSE, WISCONSIN

BUILDING PLAN & SECTIONS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:
SCALE: AS SHOWN
DRAWN: ETE
CHECKED: SSW, LLN
DATE: 05/13/2026

PROJECT NUMBER
1188-081
SHEET NO.
A102

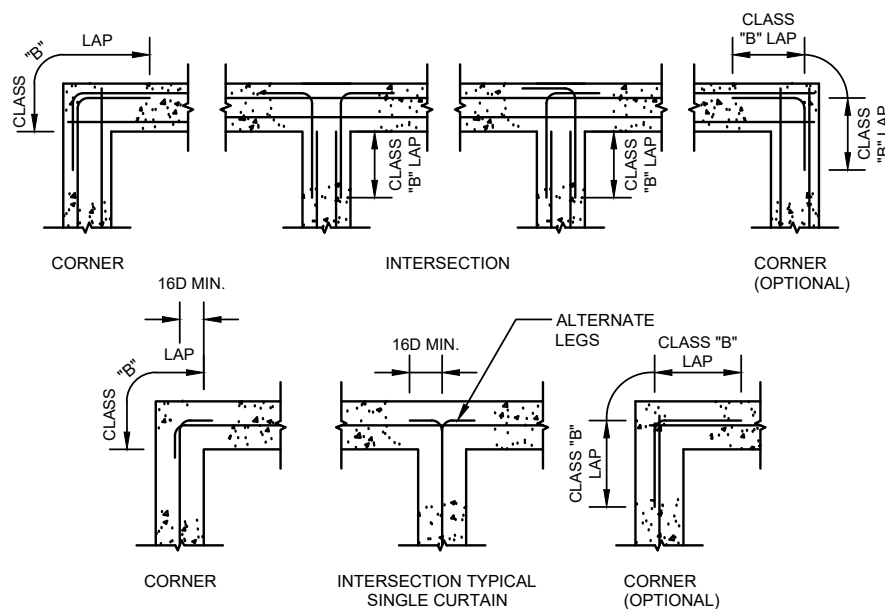
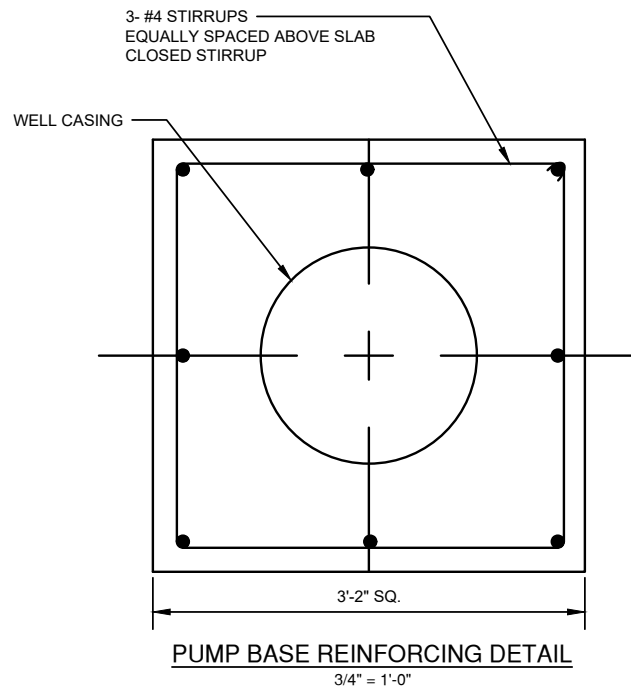
GENERAL STRUCTURAL NOTES

- 1. APPLICABLE CODES:**
 WISCONSIN SPS 361-366
 2021 INTERNATIONAL BUILDING CODE (IBC)
- 2. BUILDING CLASSIFICATION:**
 USE AND OCCUPANCY.....GROUP F-2
 CONSTRUCTION.....TYPE VB
 AREA (ALL CONSTRUCTION TYPES).....484 S.F.
- 3. DESIGN DATA:**
LIVE LOADS
 ROOF ATTIC.....10 PSF
 ROOM CEILING.....N/A (0 PSF)
 GROUND LEVEL ROOMS.....250 PSF+
EQUIPMENT LOADS
 WELL PUMP BASE.....11,000 LBS (SERVICE)
 WATERMAIN LATERAL THRUST.....2,800 LBS (SERVICE)

SNOW LOADING PARAMETERS ASCE 7-16
 GROUND SNOW LOAD (pg).....50 PSF
 EXPOSURE.....PARTIALLY EXPOSED
 RISK CATEGORY.....IV
 SNOW IMPORTANCE FACTOR (Is).....1.2
 EXPOSURE FACTOR (Ce).....1.0
 THERMAL FACTOR (Ct).....1.2
 SLOPED BALANCED ROOF LOAD (ps).....51 PSF
 UNBALANCED SNOW LOADS AND DRIFT.....SEE DETAILS

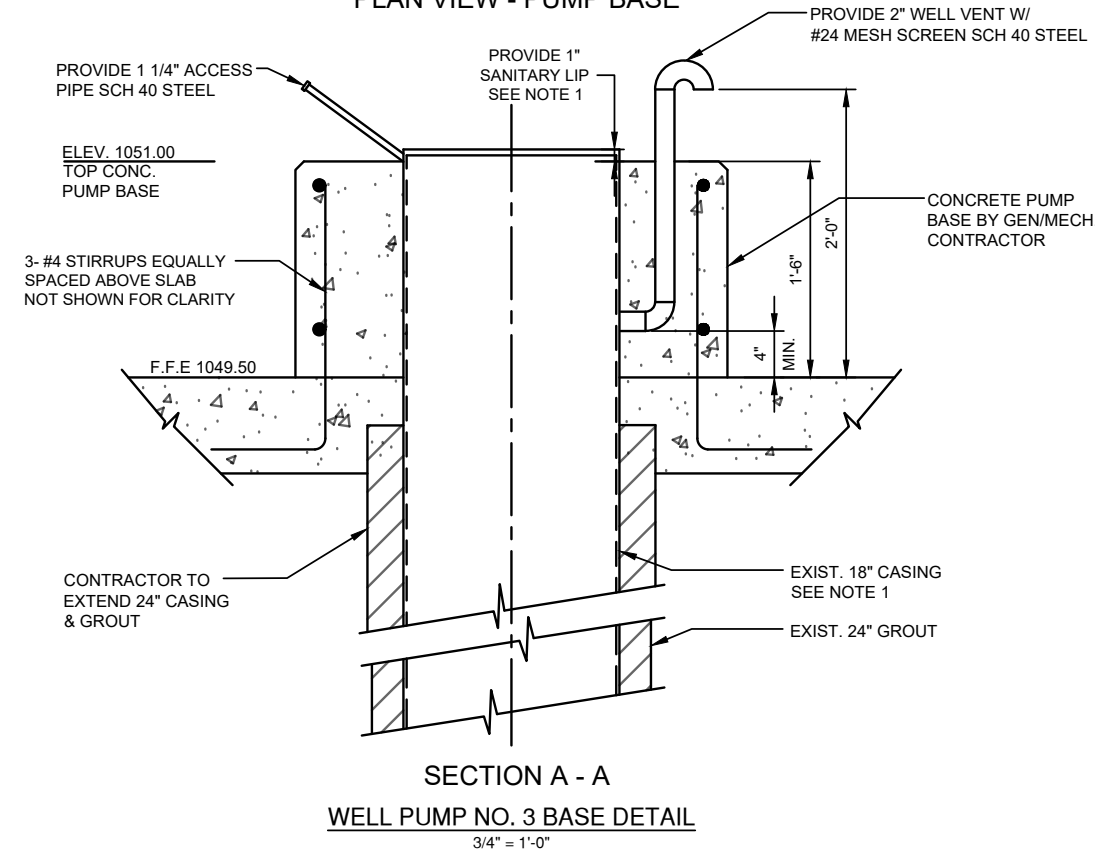
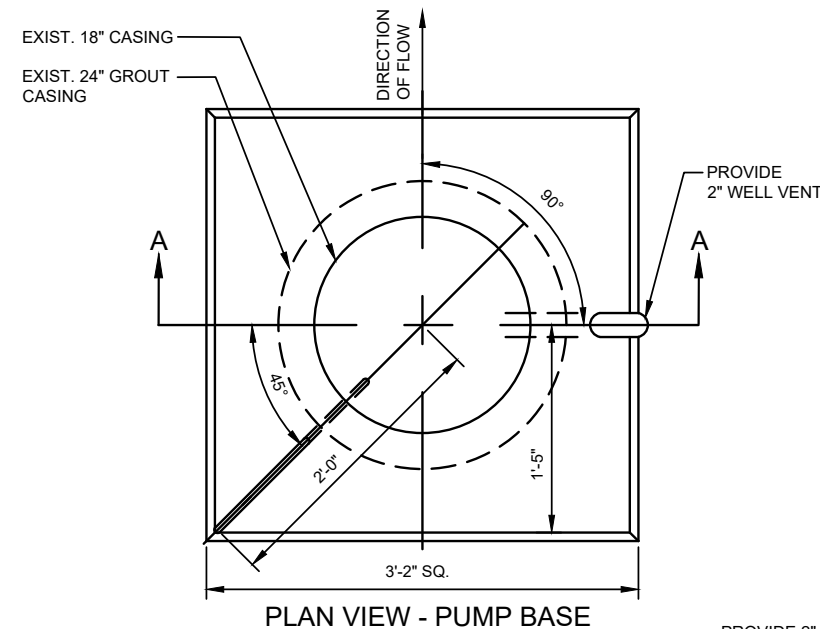
WIND LOADING PARAMETERS ASCE 7-16
 EXPOSURE.....C
 RISK CATEGORY.....IV
 ULTIMATE DESIGN WIND SPEED (V).....119 MPH
 TOPOGRAPHIC FACTOR (Kzt).....1.0
 WIND PRESSURE (ANY DIRECTION).....SEE DETAILS

EARTHQUAKE DESIGN DATA ASCE 7-16
 RISK CATEGORY.....IV
 IMPORTANCE FACTOR (Ie).....1.5
 Ss.....0.047
 S1.....0.034
 SDS.....0.050
 SD1.....0.054
 SITE CLASS.....D
 SEISMIC DESIGN CATEGORY.....A
 BASIC SEISMIC FORCE RESISING SYSTEMS.....NA
 DESIGN LATERAL FORCE (Fx).....0.01(Wx)
 RESPONSE MODIFICATION COEFF. (R).....NA
 ANALYSIS PROCEDURE.....ASCE SEC. 1.4
- 4. CONCRETE COVER:**
COVER FOR REINFORCING BARS SHALL BE AS FOLLOW:
 A. FOOTING & FOUNDATION MATS CAST ON GROUND.....3"
 B. CONCRETE EXPOSTED TO GROUND, WEATHER, OR WATER.....2"
- 5. CONCRETE:**
 A. COMPRESSIVE STRENGTH, ALL OTHER LOCATIONS.....3,500 PSI
 B. WATER/CEMENT RATIO.....0.55
 C. NORMAL WEIGHT AIR - ENTRAINED AIR CONTENT.....6%±1.0%
- 6. MASONRY:**
 GROUT, ASTM C476; COMPRESSIVE STRENGTH.....3,000 PSI
 ABOVE GRADE MORTAR, ASTM 270, TYPE 'S';
 COMPRESSIVE STRENGTH.....2,000 PSI
 STRUCTURAL BLOCK, ASTM C90, GRADE N;
 COMPRESSIVE STRENGTH.....2,000 PSI
- 7. STEEL:**
 REINFORCING STEEL, ASTM A615, YIELD STRENGTH.....60 KSI
 WELDED WIRE REINFORCEMENT, ASTM A185, GRADE 65,
 YIELD STRENGTH.....65 KSI
- 8. REBAR SPLICE & DEVELOPMENT**
 A. SEE SPECIFICATIONS
 B. #4 BAR : 21" MIN. IN CONCRETE
 C. #5 BAR : 26" MIN IN CONCRETE
 D. #5 BAR : 21" MIN IN CMU GROUT
- 9. SOIL:**
 ALLOWABLE SOIL BEARING CAPACITY: 4,000 PSF



- NOTES:**
- D = BAR DIAMETER
 - ALL 90° STANDARD HOOK BENDS & EMBEDMENT LENGTHS SHALL BE AS SHOWN & IN ACCORDANCE WITH ACI 315 UNLESS OTHERWISE INDICATED ON DESIGN DRAWINGS.

MINIMUM REINFORCING STEEL AT WALL INTERSECTIONS AWAY FROM TANK
 NTS



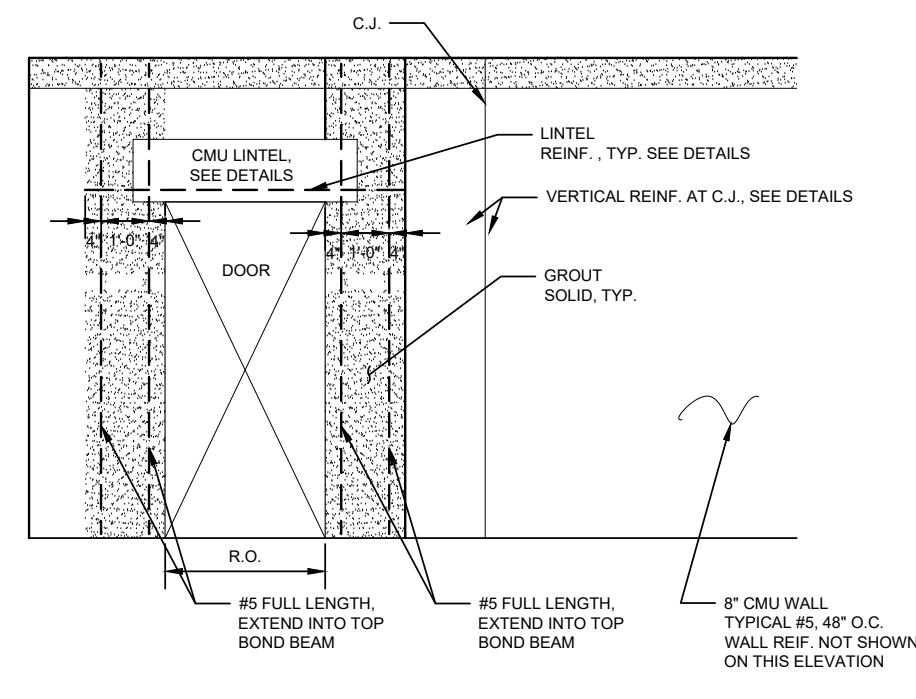
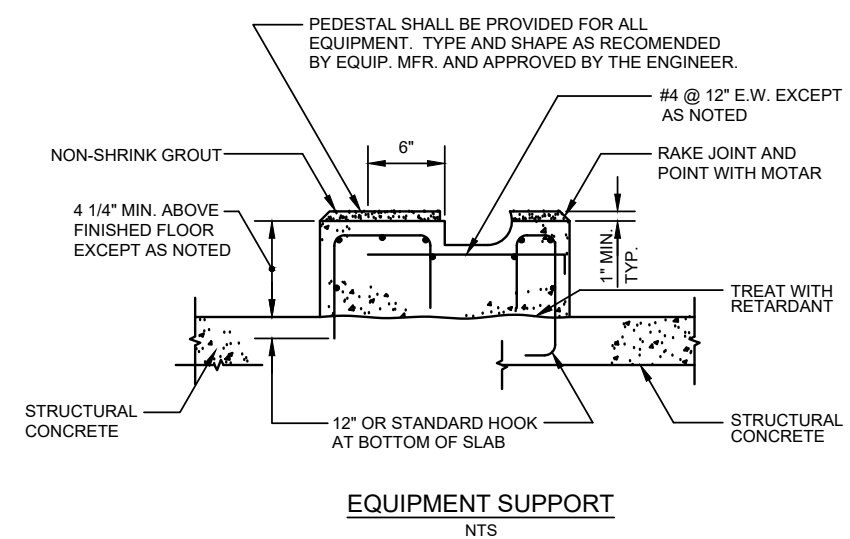
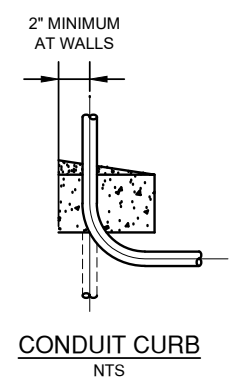
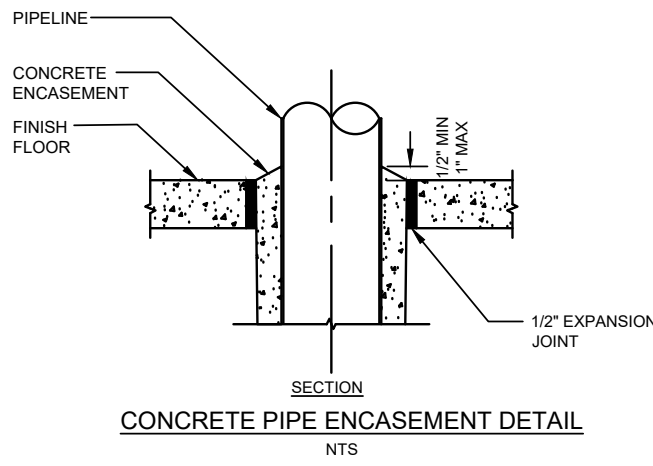
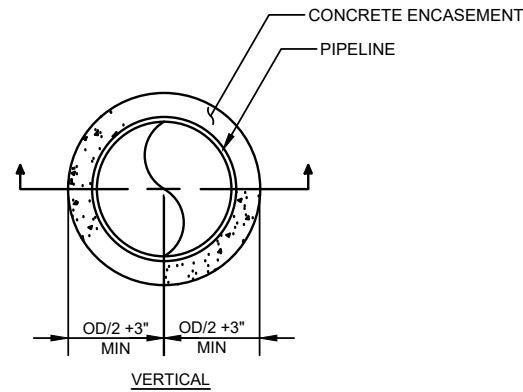
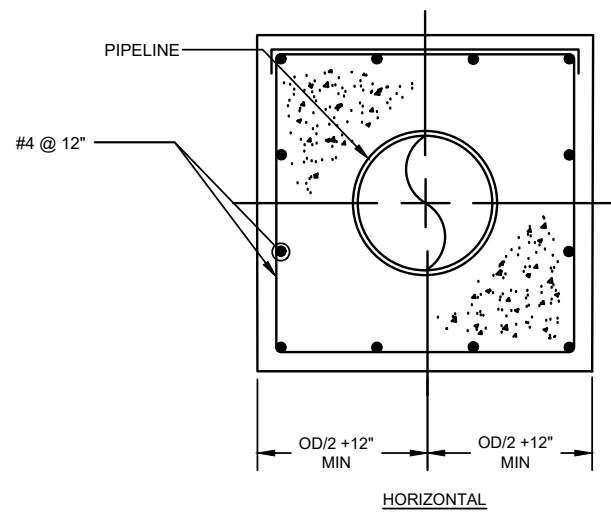
REVISION DATE	REMARKS



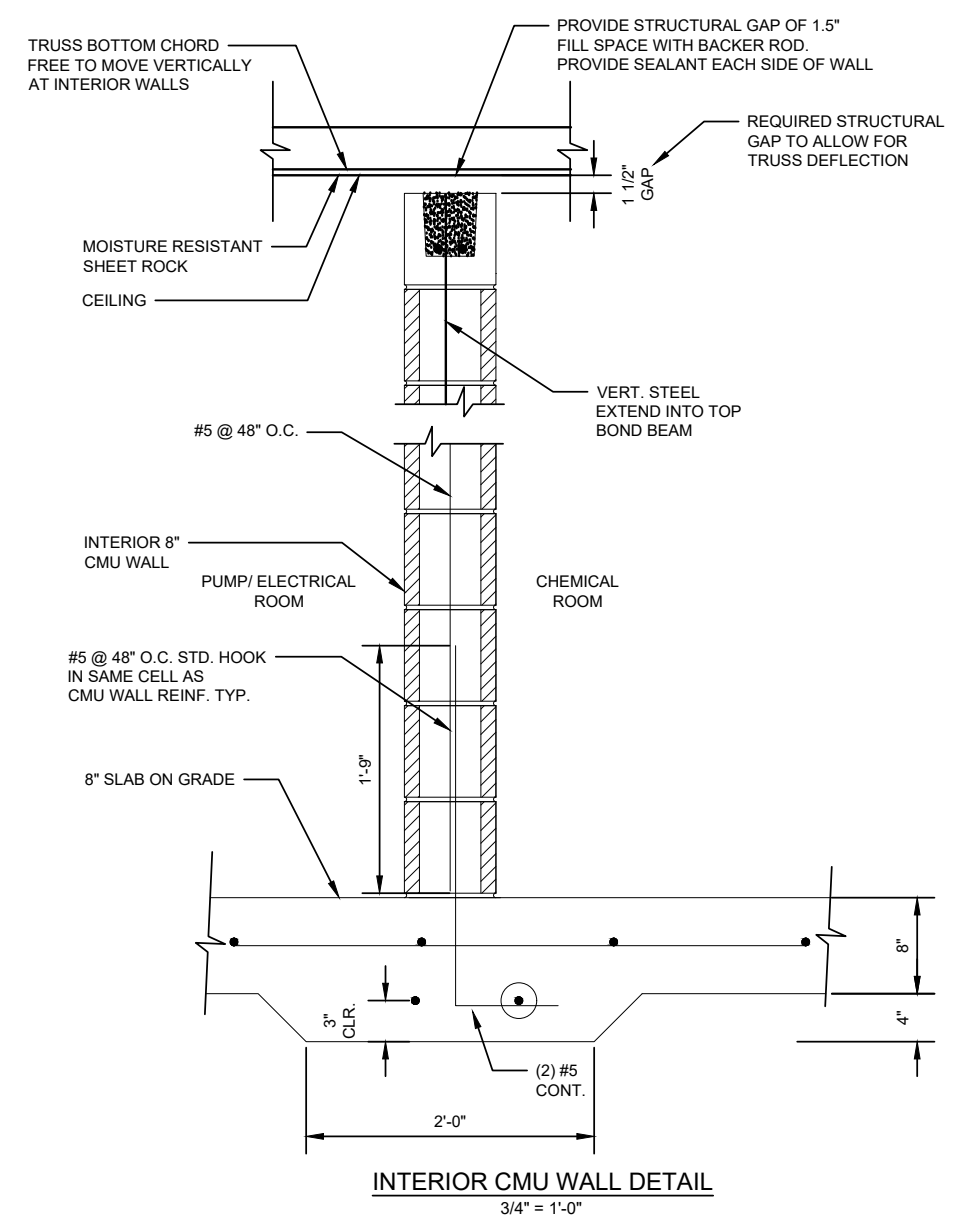
DAVY ENGINEERING CO.
 LA CROSSE, WISCONSIN

GENERAL STRUCTURAL NOTES & DETAILS
 PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
 VILLAGE OF FAIRCHILD, WISCONSIN

PROJECT NUMBER	1188-081
SHEET NO.	S1
FIELDBOOK:	SCALE: AS SHOWN
DRAWN: ETE	CHECKED: SSW, LLN
DATE: 05/13/2026	



8" CMU REINF. AROUND ALL OPENINGS
SCALE: 1/4" = 1'-0"



REVISION DATE	REMARKS



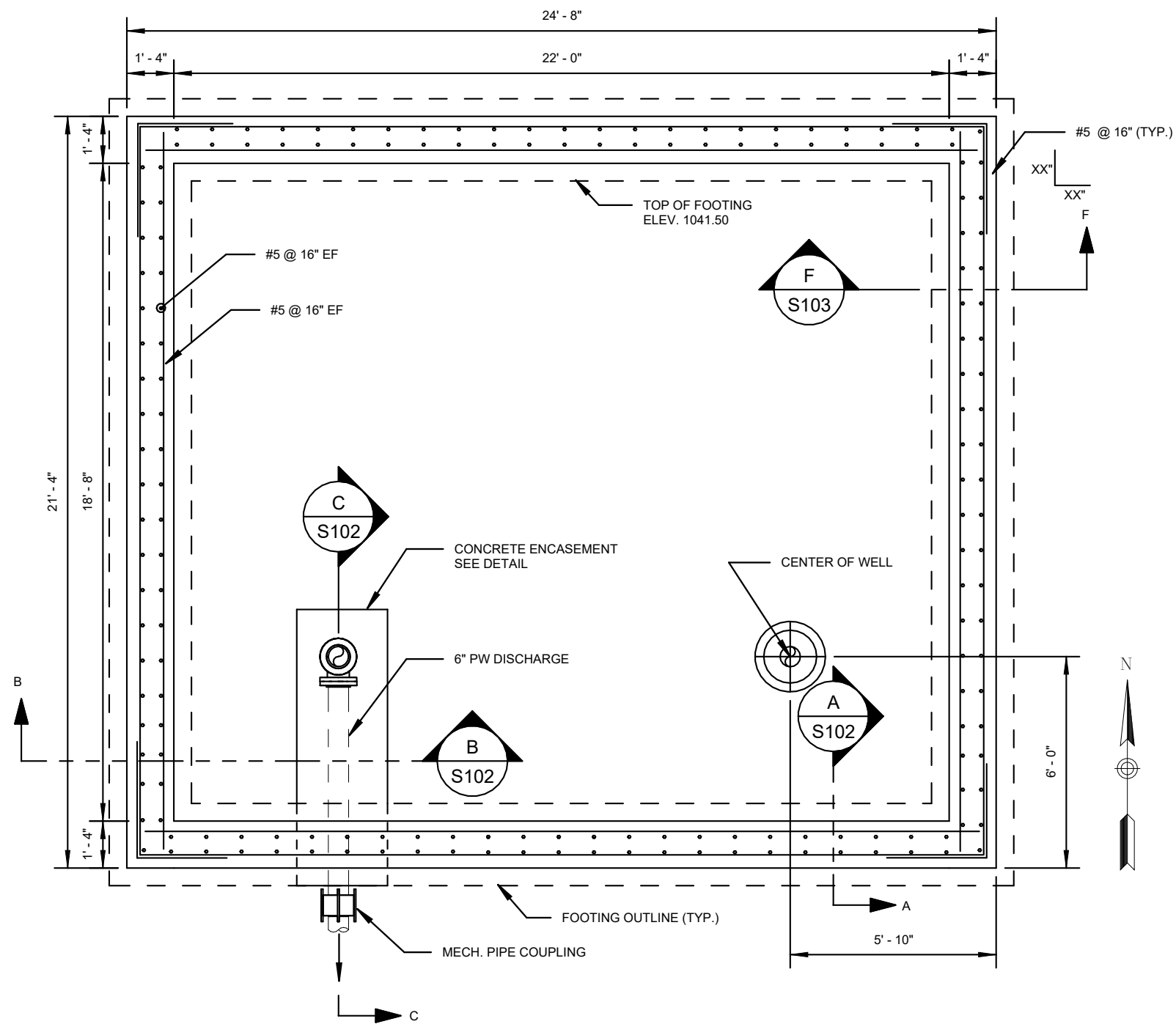
DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

STRUCTURAL DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

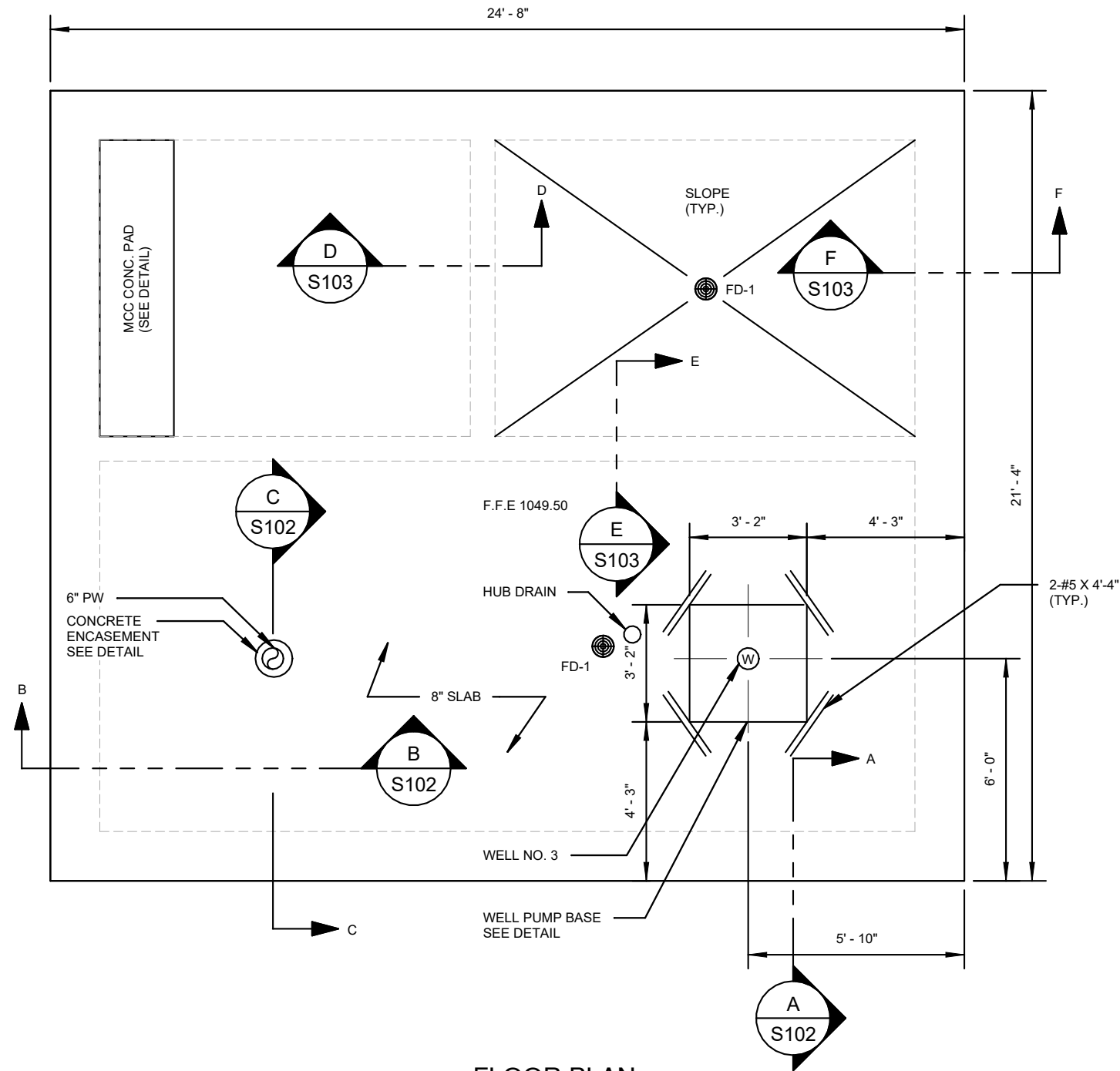
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CHECKED: SSW, LLN
DATE: 05/13/2026

PROJECT NUMBER
1188-081
SHEET NO.
S2

H:\AutoCad Drawings\2020\Fairchild\1188-081 WELL 3\CAD Drawings\Civil\Deliverables\1188-081 STRUCTURAL NOTES & DETAILS.dwg, 5/13/2026 10:27:19 AM, AutoCAD PDF (General Documentation).pc3



FOUNDATION PLAN
1/4" = 1'-0"



FLOOR PLAN
1/4" = 1'-0"

REVISION DATE	REMARKS

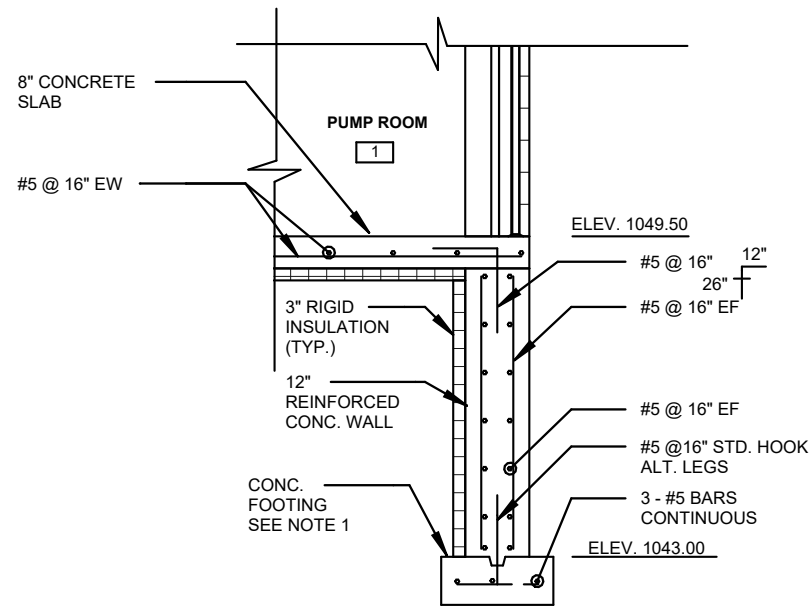


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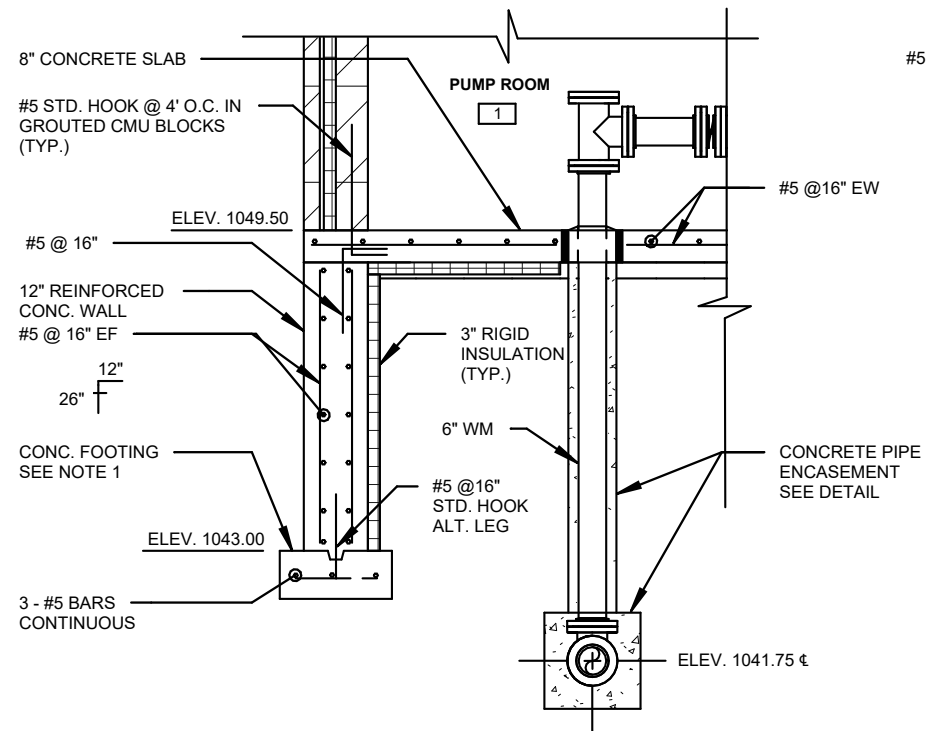
FOUNDATION & FLOOR PLANS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:
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CHECKED: SSW, LLN
DATE: 05/13/2026

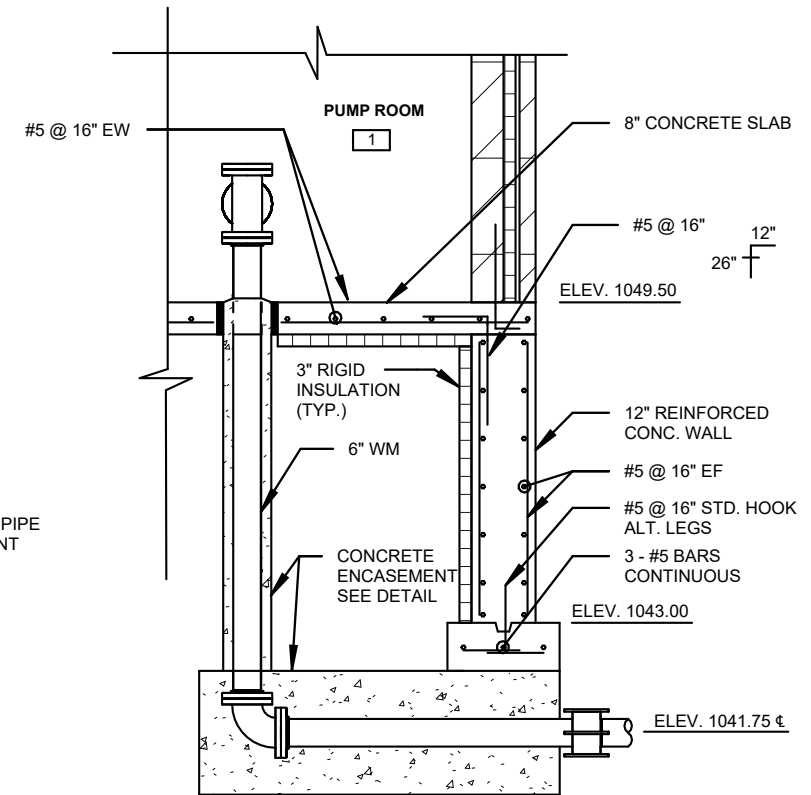
PROJECT NUMBER
1188-081
SHEET NO.
S101



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



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



SECTION C - C
1/4" = 1'-0"

NOTES:
1. FOOTING PLACED ON 12" COMPACTED AGGREGATE BASE COURSE.

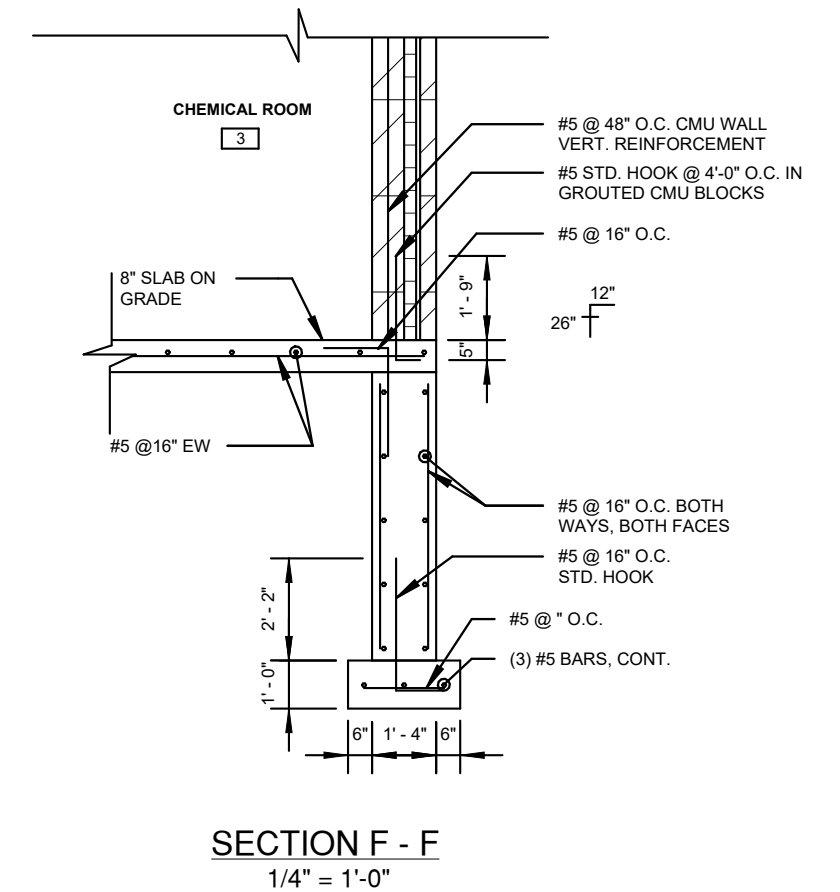
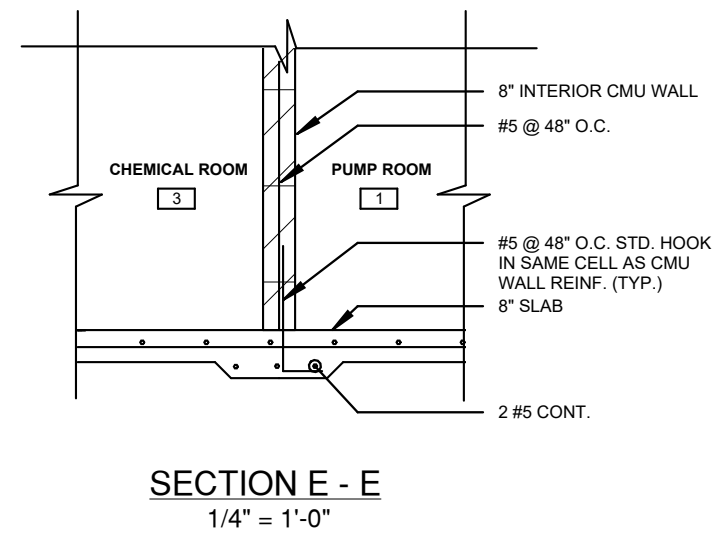
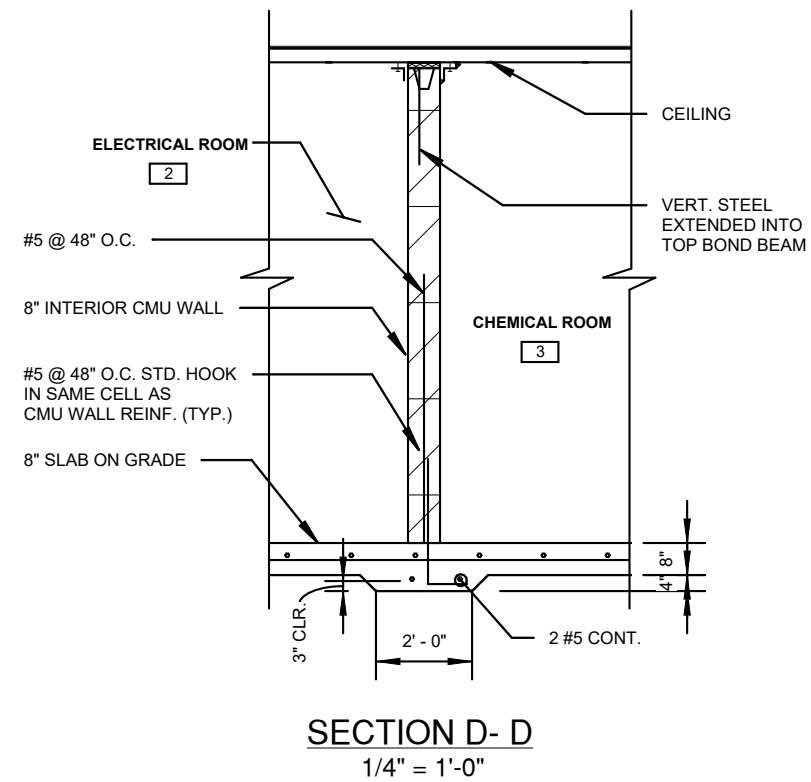
REVISION DATE	REMARKS



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STRUCTURAL SECTIONS - 1
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:	PROJECT NUMBER
SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
CHECKED: SSW, LLN	S102
DATE: 05/13/2026	



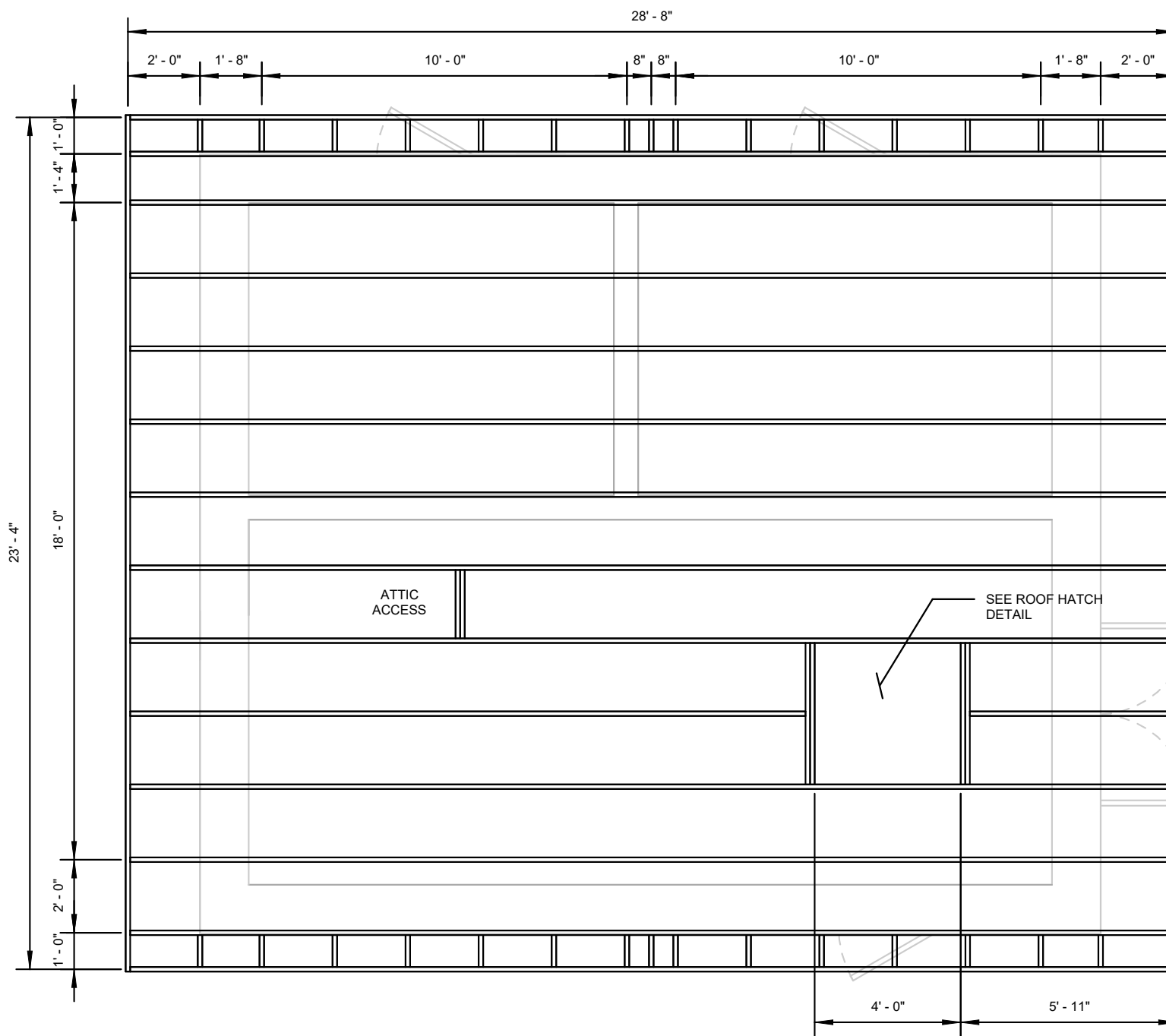
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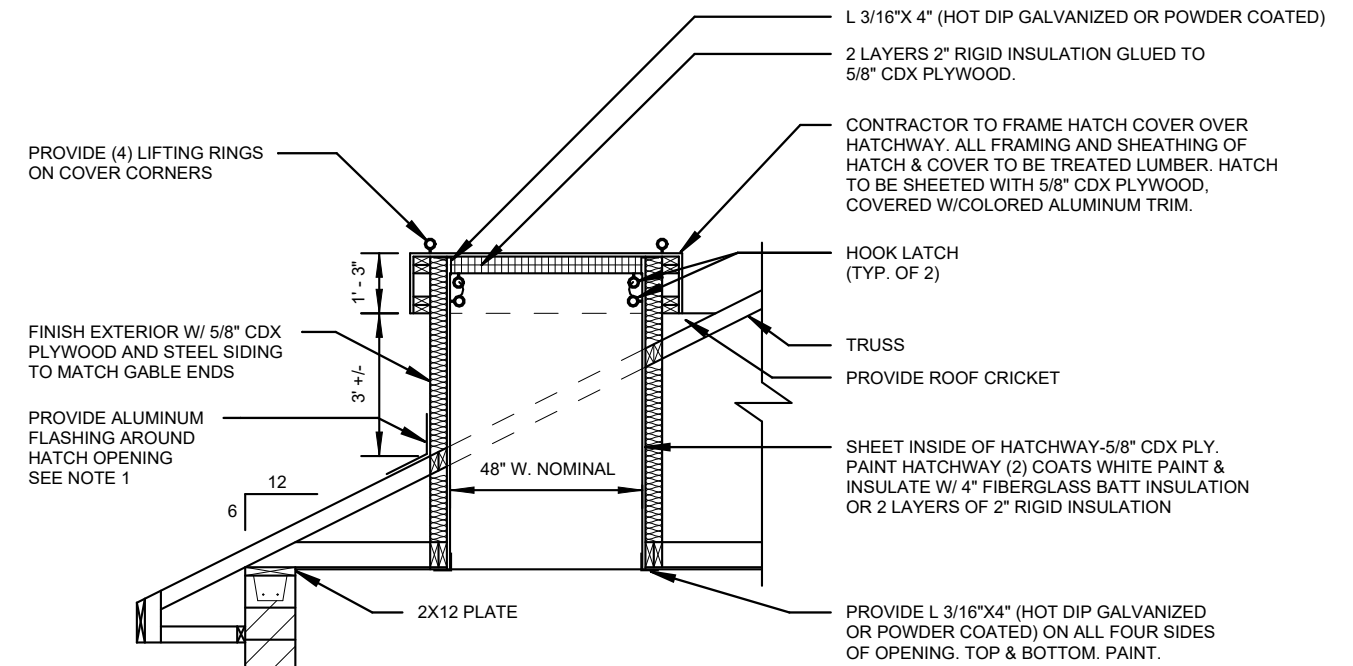
DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

STRUCTURAL SECTIONS - 2
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:	PROJECT NUMBER
SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
CHECKED: SSW, LLN	S103
DATE: 05/13/2026	

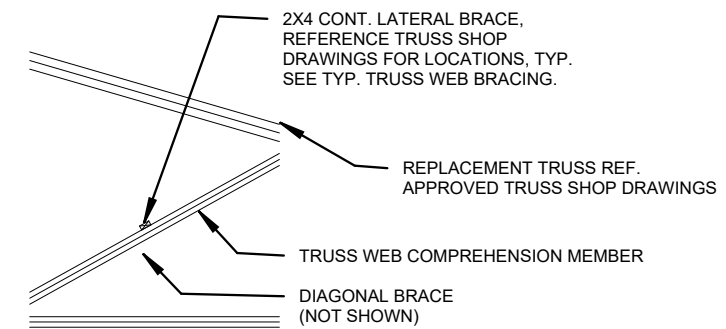


TRUSS PLAN
1/4" = 1'-0"



NOTES:
1. FLASHING COLOR TO MATCH STEEL SIDING.

TYPICAL ROOF HATCH DETAIL
1/4" = 1'-0"



TRUSS BRACING DETAIL
3/16" = 1'-0"

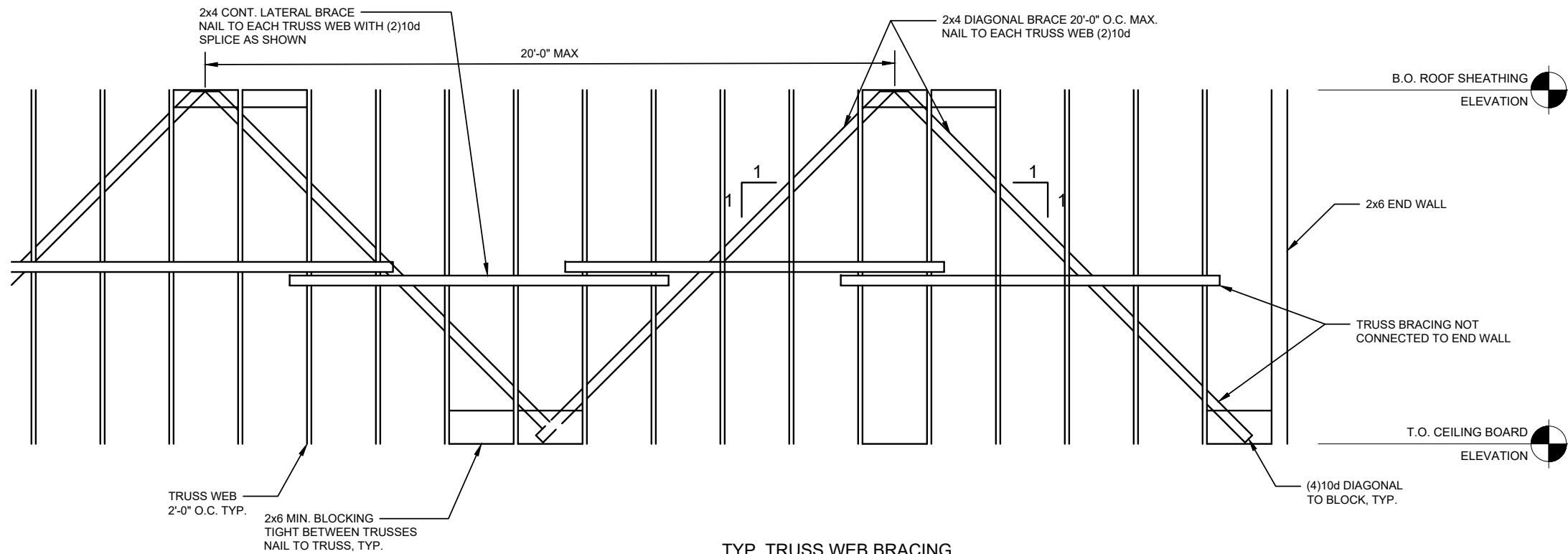
REVISION DATE	REMARKS



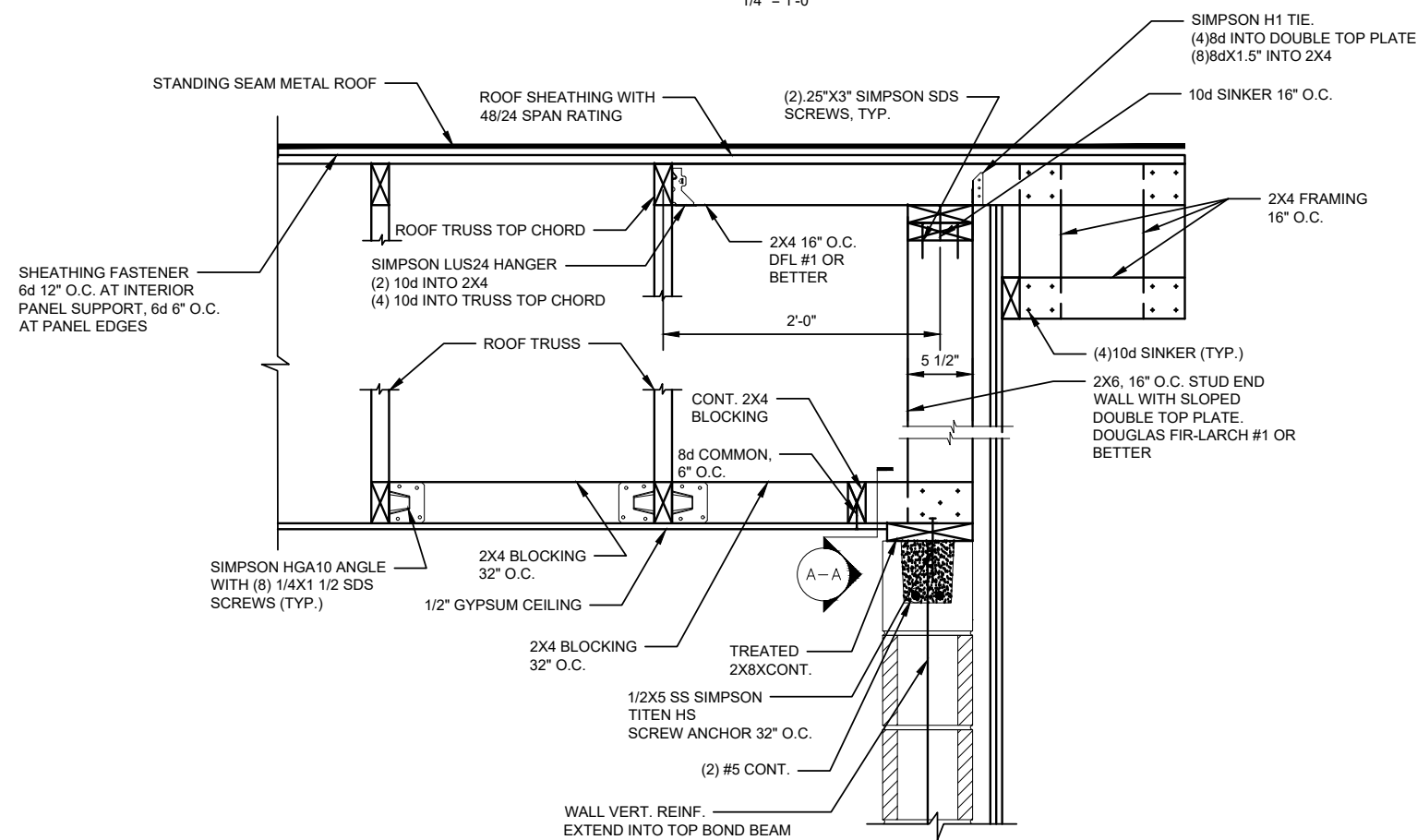
DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

TRUSS PLAN & DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

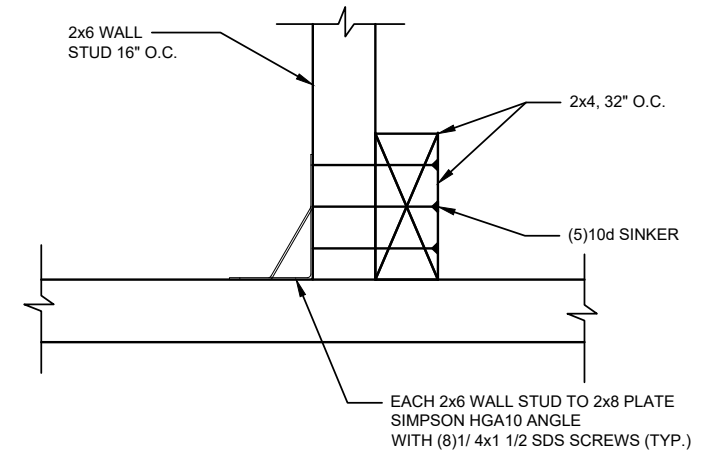
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SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
CHECKED: SSW, LLN	S110
DATE: 05/13/2026	



TYP. TRUSS WEB BRACING
1/4" = 1'-0"



GABLE END OVERHANG DETAIL
NTS



DETAIL A - A
NTS

REVISION DATE	REMARKS



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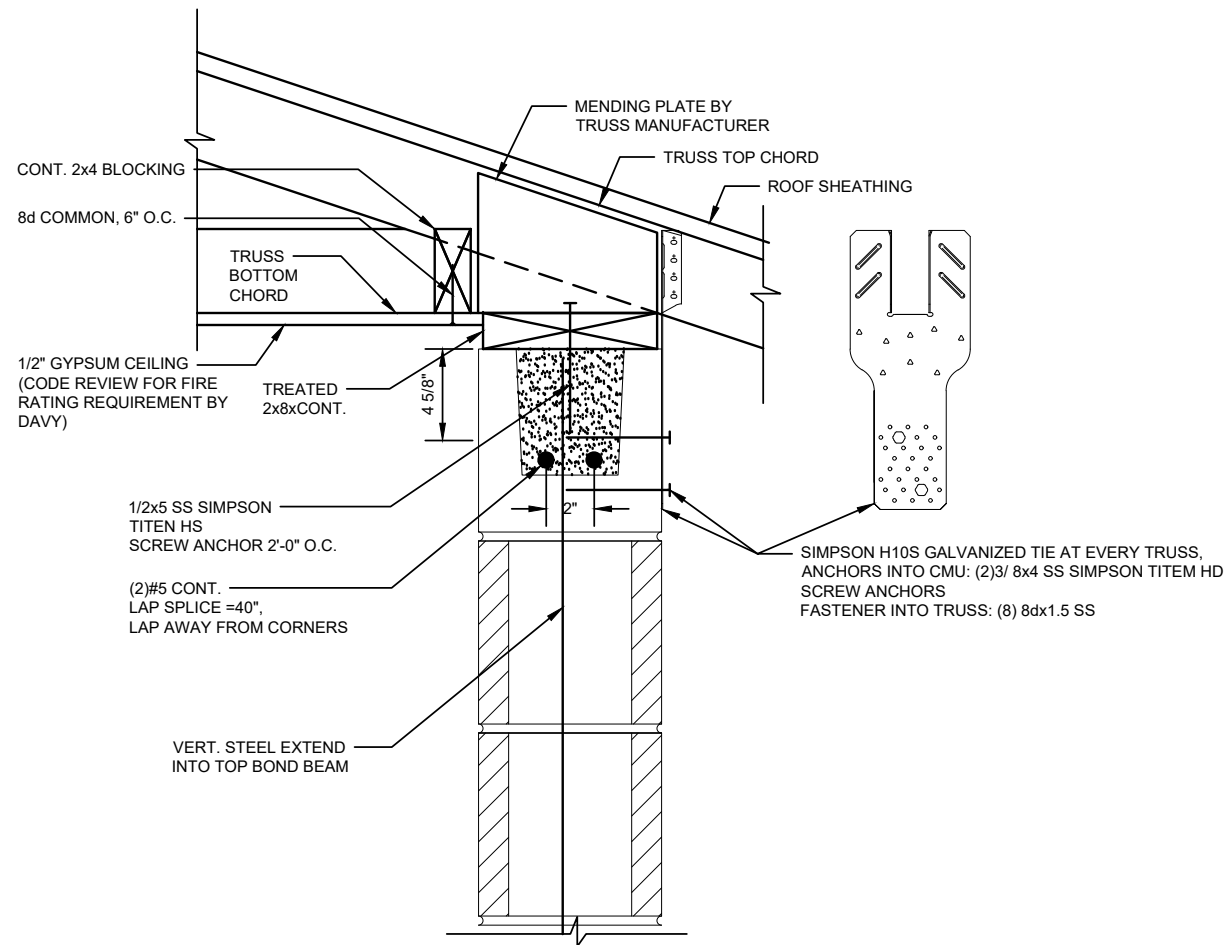
TRUSS DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:	PROJECT NUMBER
SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
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DATE: 05/13/2026	

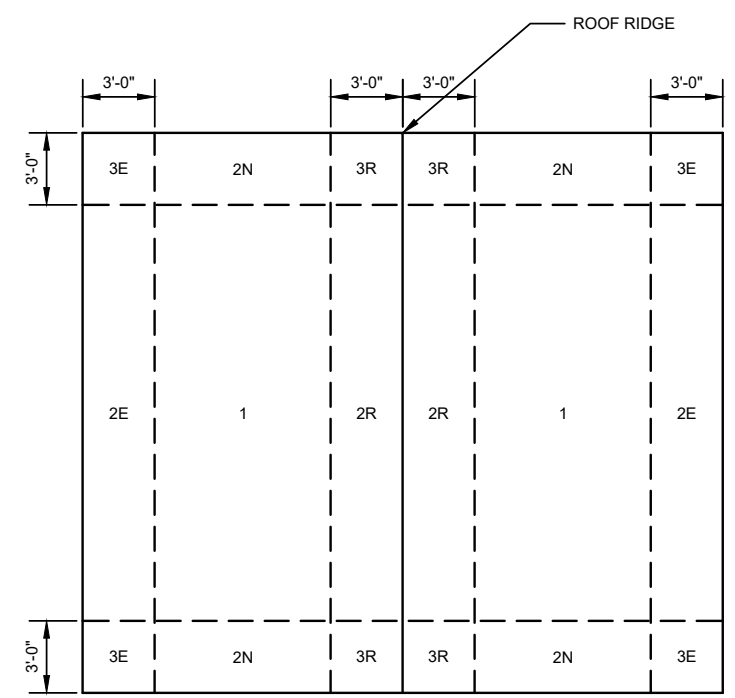
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1188-081
SHEET NO.
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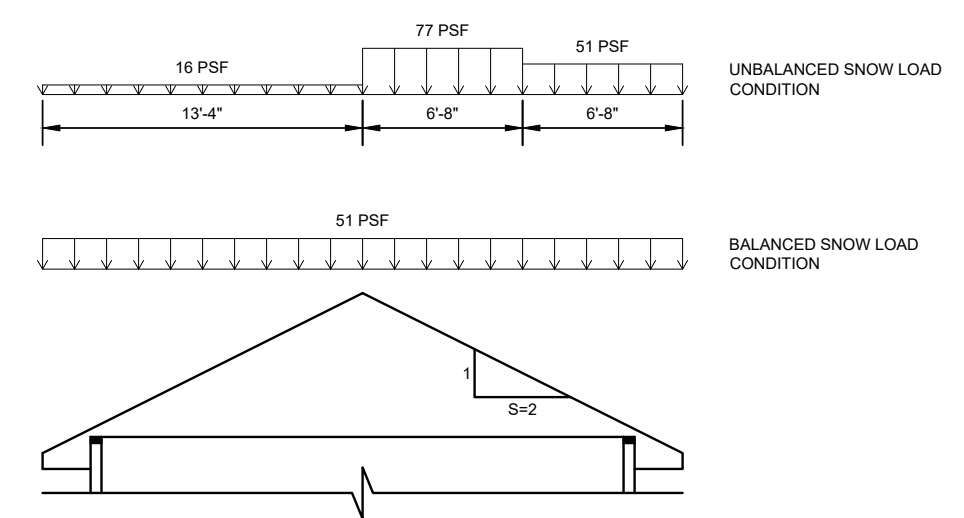
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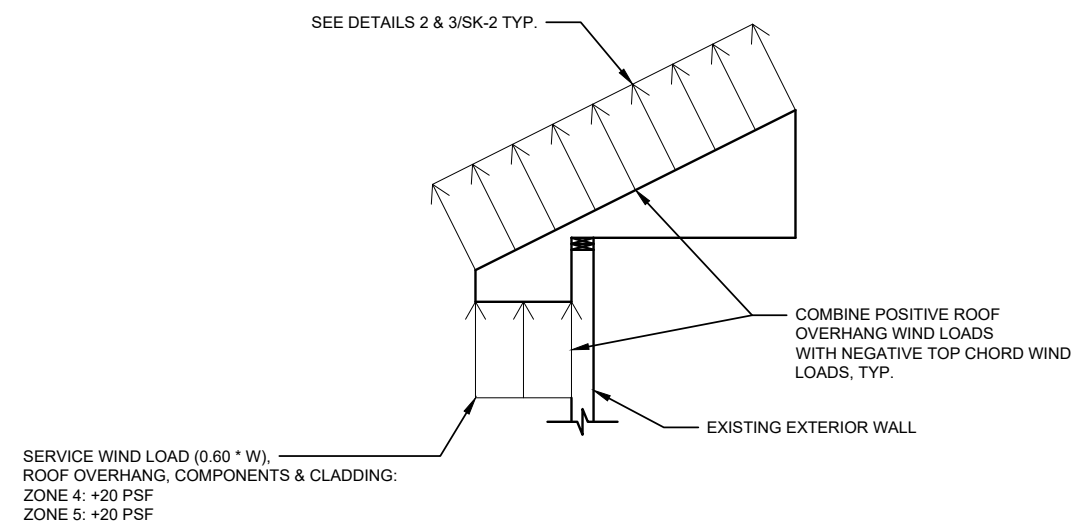
DETAIL
SCALE: 6" = 1'-0"



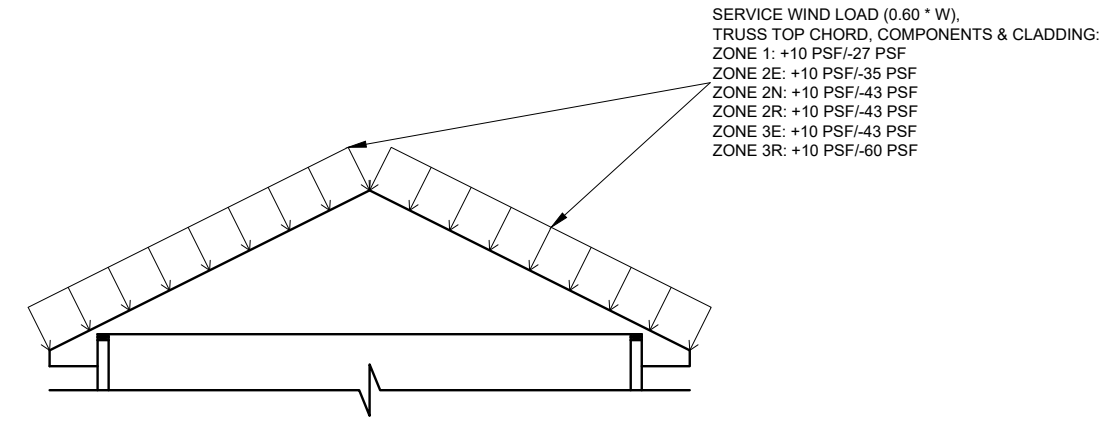
BUILDING ROOF PLAN: ROOF WIND ZONES
SCALE: 1/8" = 1'-0"



ROOF TRUSS SNOW LOAD DIAGRAM
SCALE: 1/8" = 1'-0"



ROOF TRUSS OVERHANG WIND LOAD DIAGRAM
SCALE: 1/4" = 1'-0"



ROOF TRUSS WIND LOAD DIAGRAM
SCALE: 1/8" = 1'-0"

REVISION DATE	REMARKS

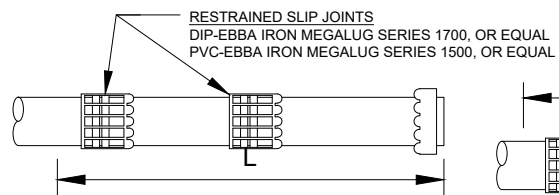


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ROOF FRAMING SECTIONS & DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

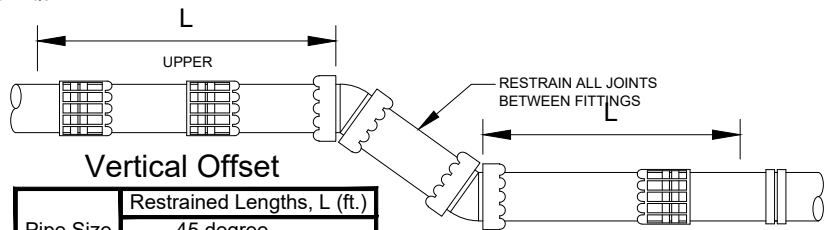
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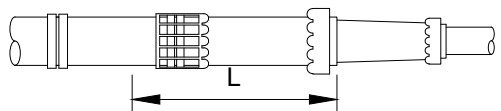
Dead End

Pipe Size	Restrained Lengths, L (ft.)	
	PVC	DIP
4	23	29
6	33	41
8	43	53
10	52	64
12	62	76



Vertical Offset

Pipe Size	Restrained Lengths, L (ft.)	
	45 degree	
	PVC	DIP
4	10	12
6	14	17
8	18	22
10	22	27
12	26	32



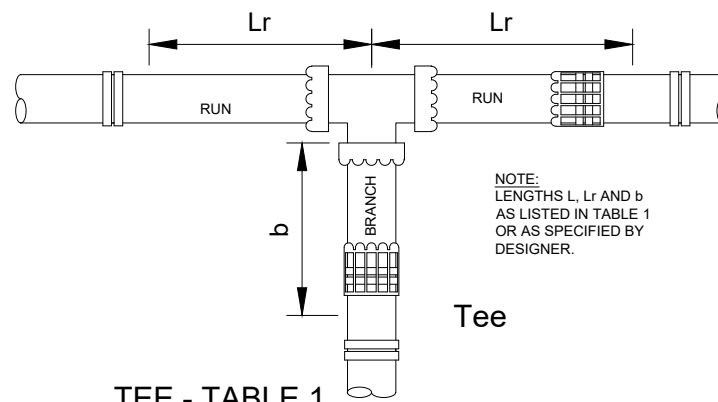
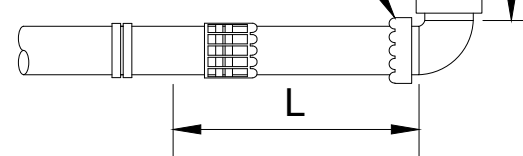
Reducer

Pipe Size	Restrained Lengths, L (ft.)	
	Large	Small
6	4	17
8	4	31
8	6	18
10	6	32
10	8	18
12	8	33
12	10	18

Horizontal Bend

Pipe Size	Restrained Lengths, L (ft.)	
	90 degree	
	PVC	DIP
6	11	12
8	15	16
10	18	19
12	21	22

RESTRAINED MECHANICAL JOINTS
DIP-EBBA IRON MEGALUG SERIES 1100, OR EQUAL
PVC-EBBA IRON MEGALUG SERIES 2000, OR EQUAL



NOTE:
LENGTHS L, Lr AND b
AS LISTED IN TABLE 1
OR AS SPECIFIED BY
DESIGNER.

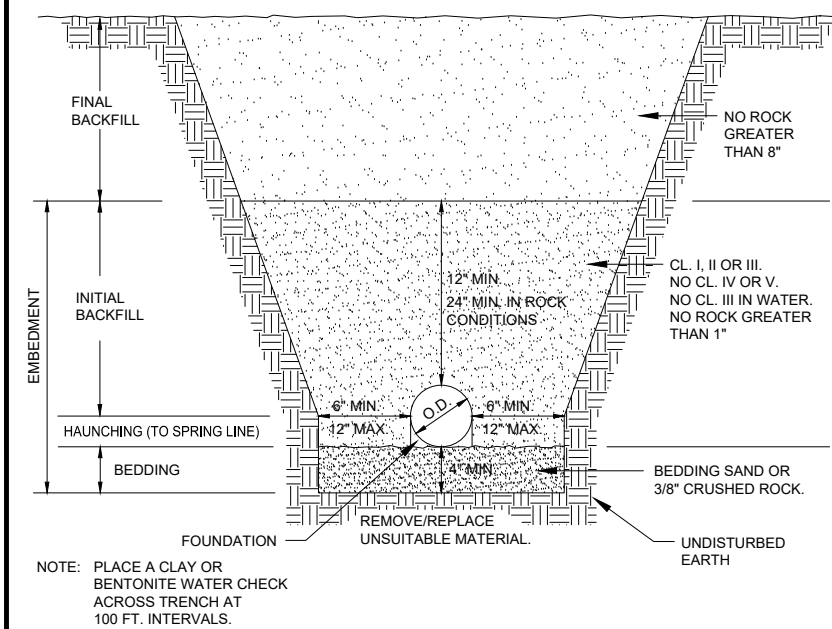
Tee

TEE - TABLE 1

Pipe Size	Restrained Lengths				
	PVC		DIP		
Run	Branch	Lr (ft.)	b (ft.)	Lr (ft.)	b (ft.)
4	4	4	1	4	1
6	4	4	1	4	1
6	6	5	3	5	4
8	4	4	1	4	1
8	6	4	2	4	2
8	8	6	7	6	9
10	4	4	1	4	1
10	6	4	1	4	1
10	8	5	6	5	7
10	10	7	10	7	12
12	6	4	1	4	1
12	8	5	1	5	1
12	10	7	1	7	2
12	12	9	7	9	9

- NOTES ABOUT TABLES:
THESE TABLES ARE BASED UPON PRODUCT SOFTWARE DEVELOPED BY EBBA IRON, INC. AND ARE CALCULATED BASED ON THE FOLLOWING ASSUMPTIONS:
1. THE SOIL TYPES ARE SILTY LOAM (ML) OR BETTER. INORGANIC SILTS, FINE SANDS, CLAYS (NATIVE SOILS).
 2. SAFETY FACTOR, 1.5:1
 3. TRENCH TYPE 4.
 4. DEPTH OF BURY, 7 FEET OF COVER.
 5. INTERNAL PRESSURE, 150 PSI TEST PRESSURE.
- FOR OTHER PIPE SIZES OR CONDITIONS, CONTACT THE ENGINEER FOR RESTRAINED LENGTHS REQUIRED.
- CONSTRUCTION NOTES:
1. IF LESS THAN FULL LENGTH PIPE ADJACENT TO FITTING, RESTRAIN ALL JOINTS.
 2. ALL FITTINGS SHALL BE RODDED OR CONNECTED TO THE PIPE WITH AN APPROVED JOINT RESTRAINT. RODS SHALL BE STAINLESS STEEL AND A MINIMUM OF 3/4" IN DIAMETER.
 3. ALL JOINT RESTRAINTS, DIP PIPE & FITTINGS SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE.

TABLE 1 Minimum Restrained Lengths For Fittings (L)
NO SCALE



STANDARD PIPE BEDDING DETAIL
NO SCALE

SOIL CLASSIFICATION CHART

COARSE-GRAINED SOILS			
		Gravels	
GW	Well-graded gravel	More than 50% of coarse fraction retained on #4 sieve	Clean gravels < 5% fines
GP	Poorly graded gravel		Gravel with fines >12% fines
GM	Silty gravel		
GC	Clayey gravel		
SANDS			
SW	Well-graded sand	50% or more of coarse fraction passes #4 sieve	Clean sands <5% fines
SP	Poorly graded sand		Sand with fines >12% fines
SM	Silty sand		
SC	Clayey sand		
FINE-GRAINED SOILS			
		Silts and Clays	
CL	Lean clay	Liquid limit <50	Inorganic
ML	Silt		Organic
OL	Organic clay/silt		
CH	Fat clay	Liquid limit >50	Inorganic
MH	Elastic silt		Organic
OH	Organic clay/silt		
PT	Peat		

Soil Classes

Soil Class	SW, SP, GW, GP	GM, GC, SM, SC	CL, ML	MH, CH, CL, CH, PT	Class
Crushed rock					Class I
Clean coarse grained			<12% passing #200		Class II
Coarse grained with fines			>12% passing #200		Class III
Silty Clay			>30% retained #200		Class III
Fine grained			<30% retained #200		Class IV
					Class V

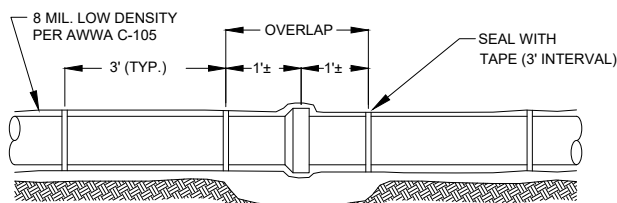
Use of Soil Classes for Foundation, Embedment and Backfill

Foundation	Embedment	Backfill
Foundation	4" minimum in rock excavation	
Foundation - no water	Class I, II or III or subcut and use Class I or II	
Foundation - with water	Class I or II or subcut and use Class I or II	
Bedding	4" minimum Bedding Sand (3.24.2) or 3/8" Crushed Rock (3.24.1)	
Embedment - no water	Class I, II or III or replace with Class I, II or III	
Embedment - with water	Class I or II or replace with Class I or II	
Foundation and embedment	No rock > 1", No Class IV or V	
Final Backfill	No rock > 8"	

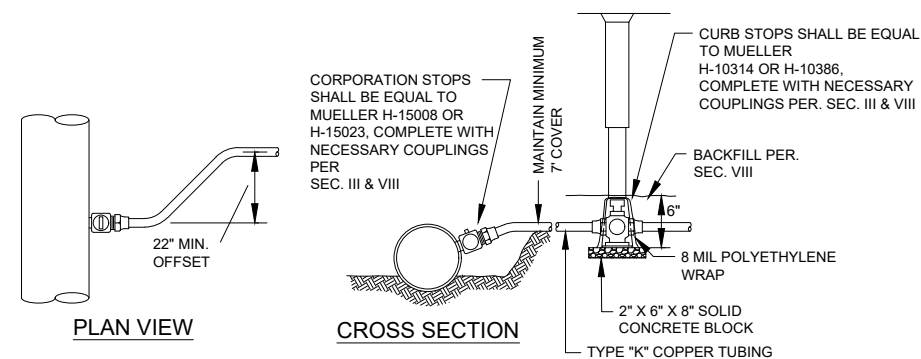
Compaction for Foundation, Embedment and Backfill

Foundation	Embedment	Backfill
Foundation	90% Modified Proctor	
Bedding	90% Modified Proctor	
Haunching	90% Modified Proctor	
Initial Backfill	90% Modified Proctor	
Final Backfill	90% - 95% Modified Proctor	

SOIL CLASSIFICATION CHARTS

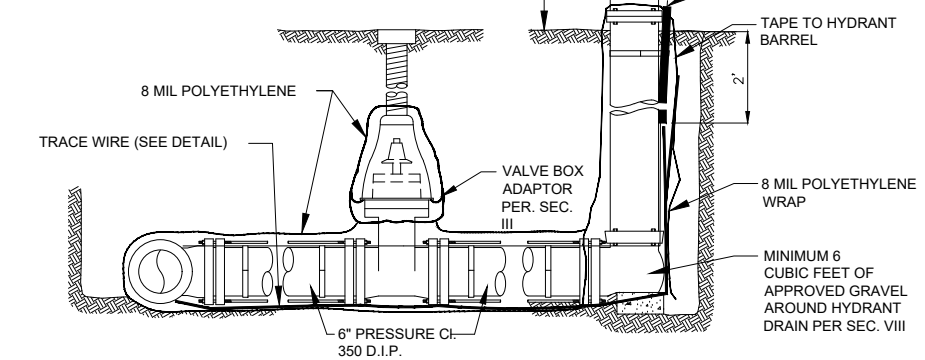


POLYETHYLENE PIPE WRAP FOR DIP
NO SCALE



COPPER WATER SERVICE CONNECTION
NO SCALE

TABLE 1 Hydrant to Watermain Connection w/Tracer Wire
NO SCALE



HYDRANT TO WATERMAIN CONNECTION W/TRACER WIRE
NO SCALE

REVISION DATE	REMARKS

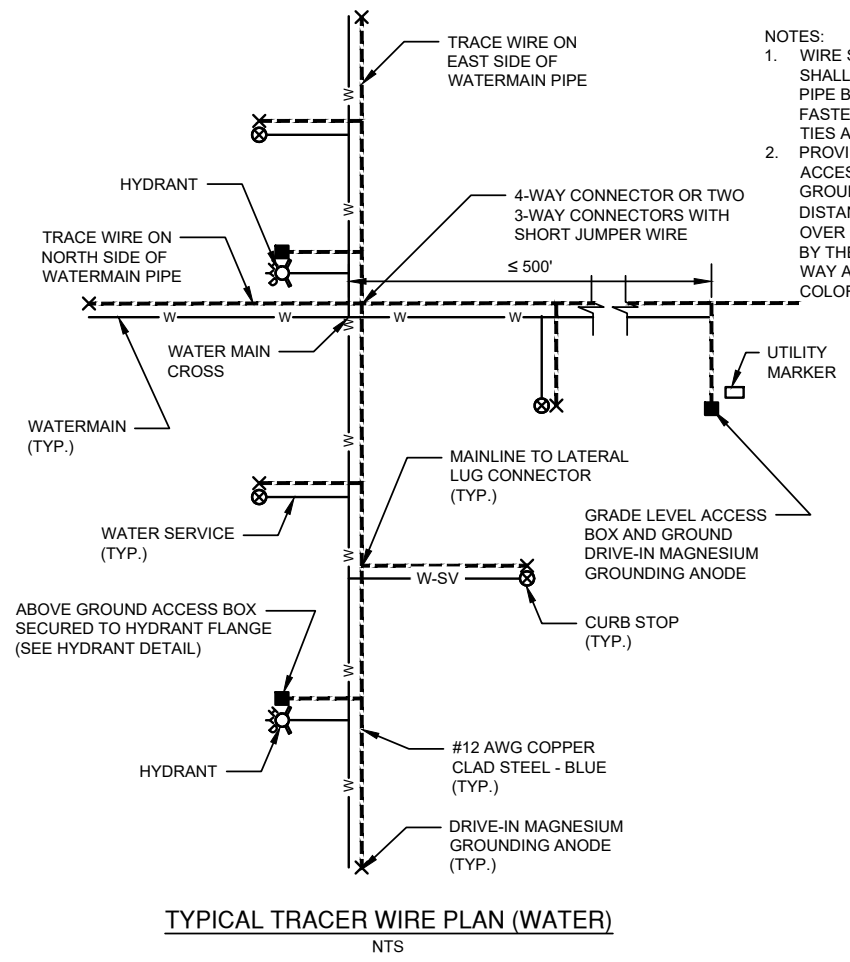


DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

MECH. CONTRACTOR WATERMAIN DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

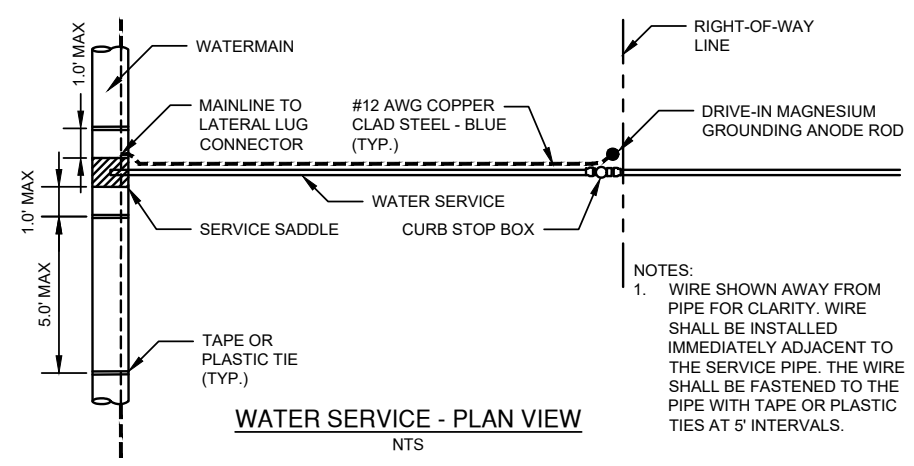
PROJECT NUMBER	SHEET NO.
1188-081	M1

FIELDBOOK:
SCALE: AS SHOWN
DRAWN: ETE
CHECKED: SSW, RAJ
DATE: 05/13/2026



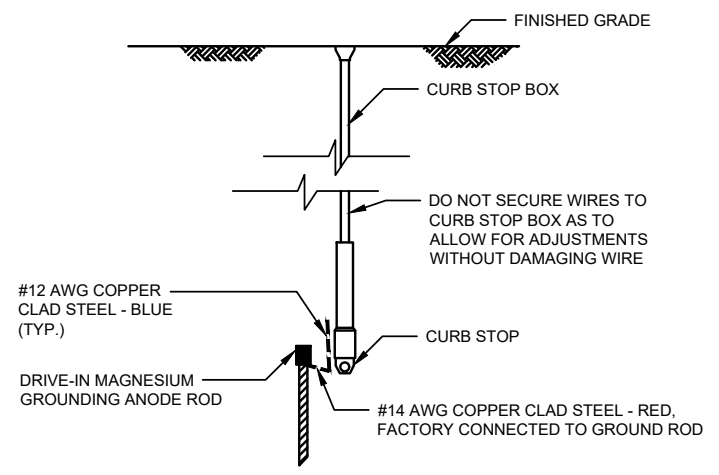
TYPICAL TRACER WIRE PLAN (WATER)
NTS

- NOTES:
1. WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE BOTTOM SIDE OF THE PIPE BELOW THE SPRING LINE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS.
 2. PROVIDE GRADE LEVEL (IN GROUND) TRACE WIRE ACCESS BOX AND DRIVE-IN MAGNESIUM GROUNDING ANODE AT EACH HYDRANT OR AT DISTANCES OF ≤ 500 FT. FOR HYDRANT SPACING OVER 500', INSTALL ACCESS BOXES AS DIRECTED BY THE ENGINEER AT THE EDGE OF THE RIGHT OF WAY AND MARK WITH A MINIMUM 48" MARKER POST COLOR CODED FOR THE UTILITY BEING MARKED.

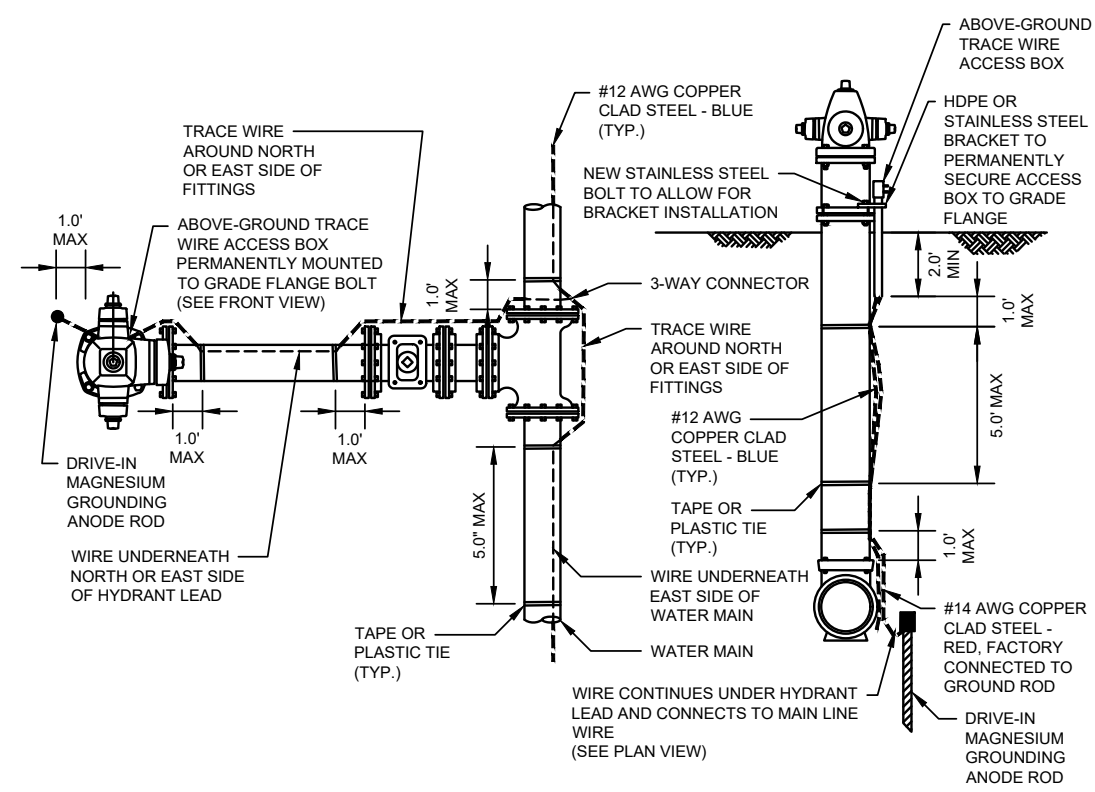


WATER SERVICE - PLAN VIEW
NTS

- NOTES:
1. WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED IMMEDIATELY ADJACENT TO THE SERVICE PIPE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS.



WATER SERVICE - SECTION VIEW
NTS



HYDRANT - PLAN VIEW
NTS

HYDRANT - SECTION VIEW
NTS

REVISION DATE	REMARKS



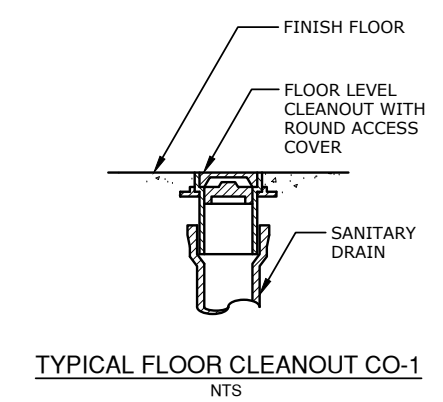
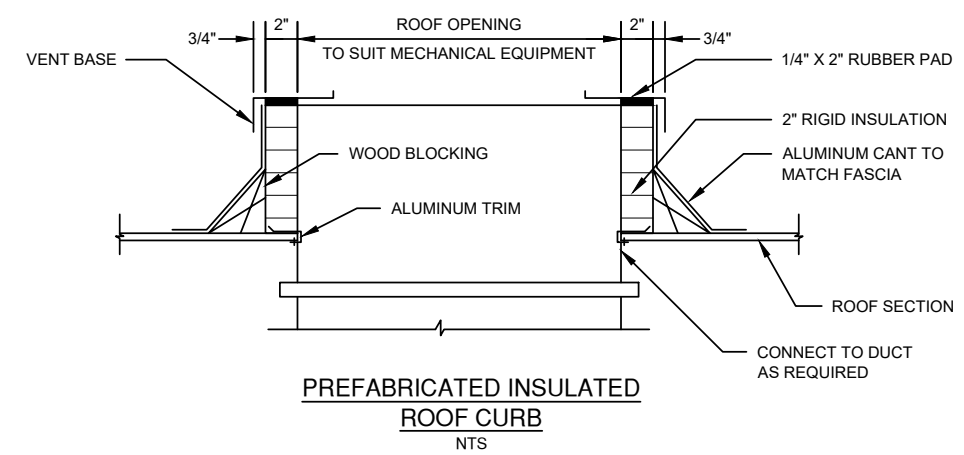
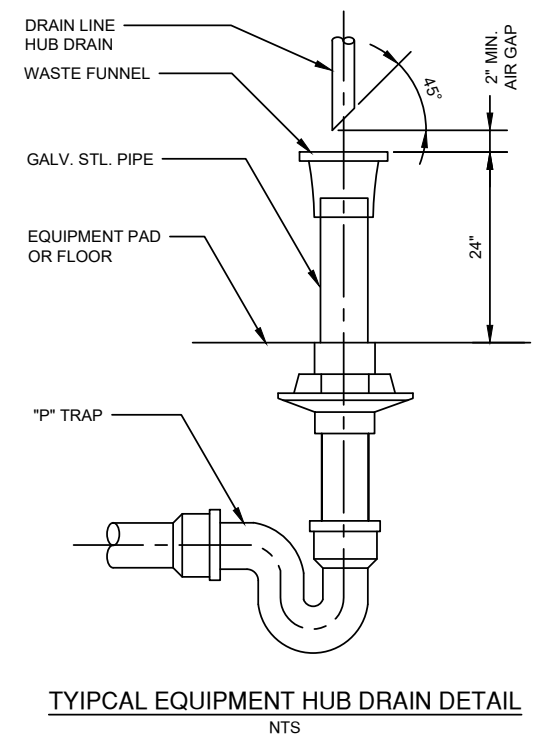
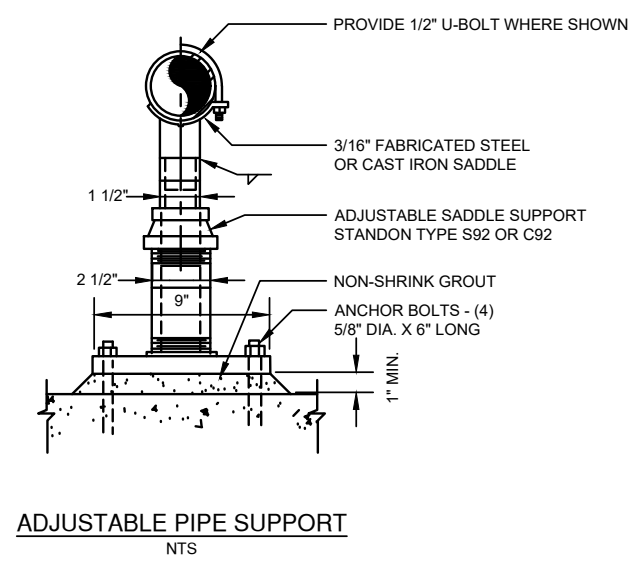
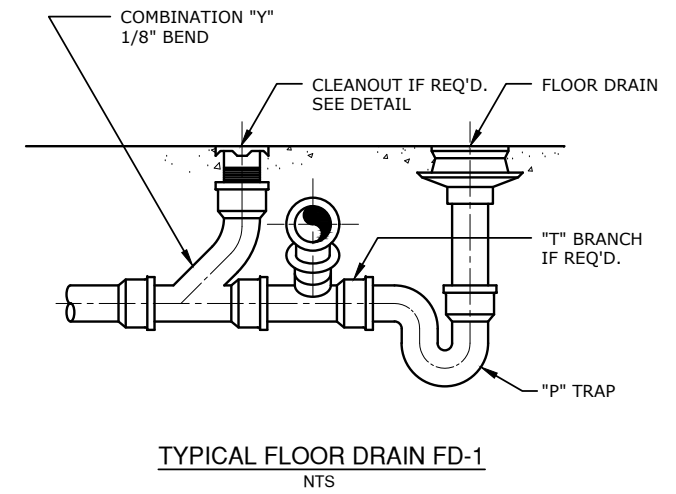
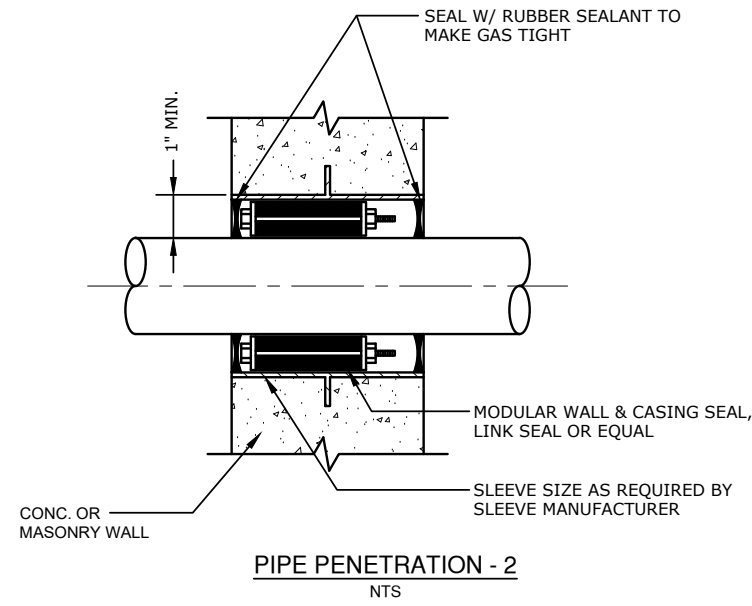
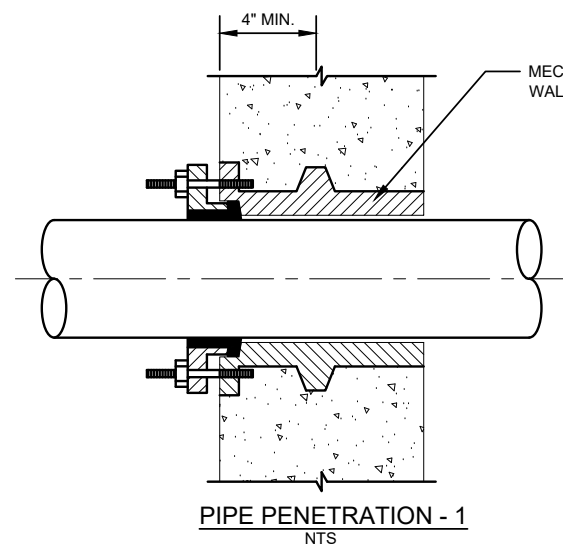
DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

MECHANICAL CONTRACTOR TRACER WIRE DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:	PROJECT NUMBER
SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
CHECKED: SSW, RAJ	M2
DATE: 05/13/2026	

PROJECT NUMBER
1188-081
SHEET NO.
M2

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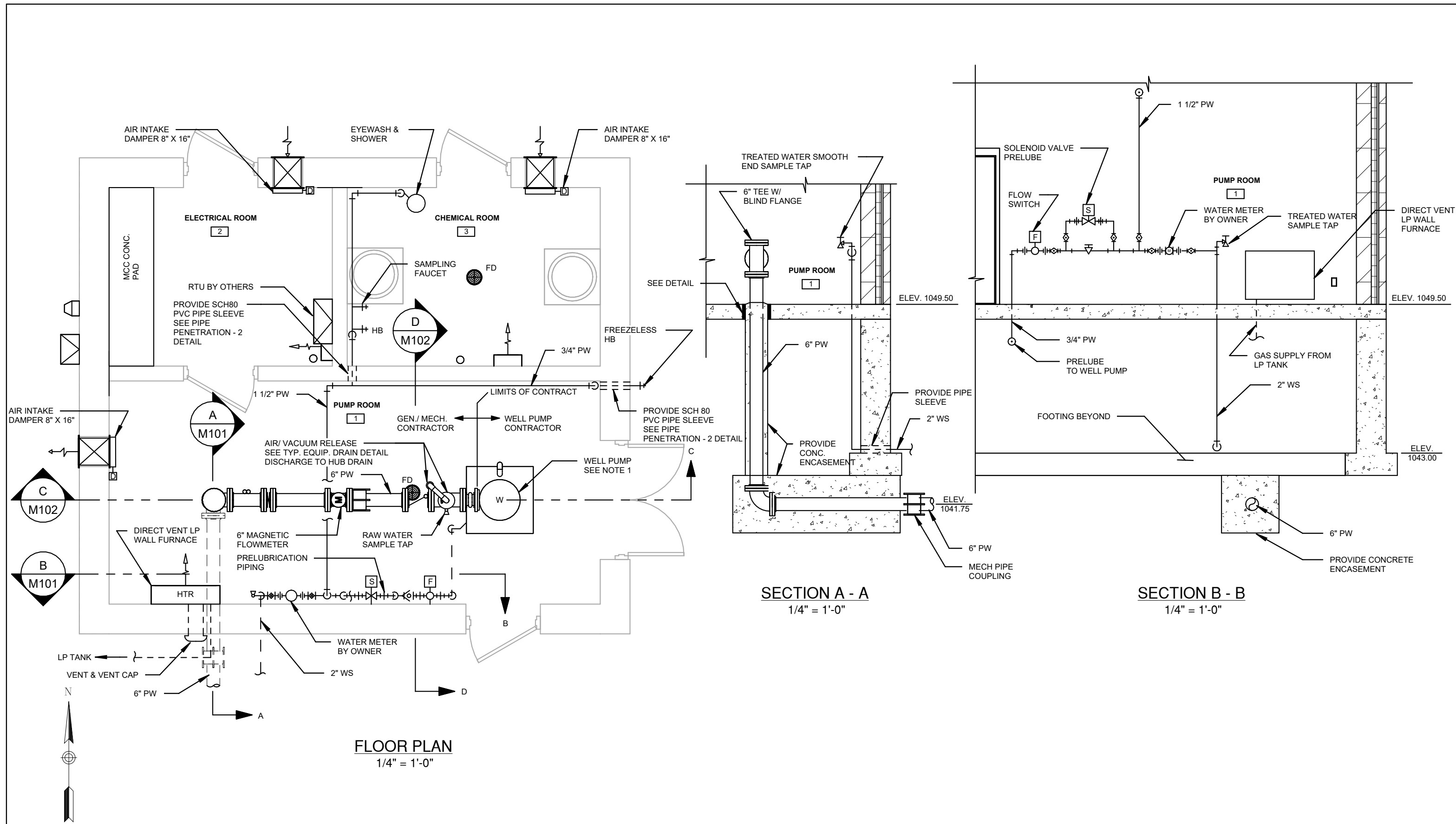
DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

MECHANICAL DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:
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PROJECT NUMBER
1188-081
SHEET NO.
M3

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NOTES:
1. WORK BY WELL & WELL PUMP CONTRACTOR.

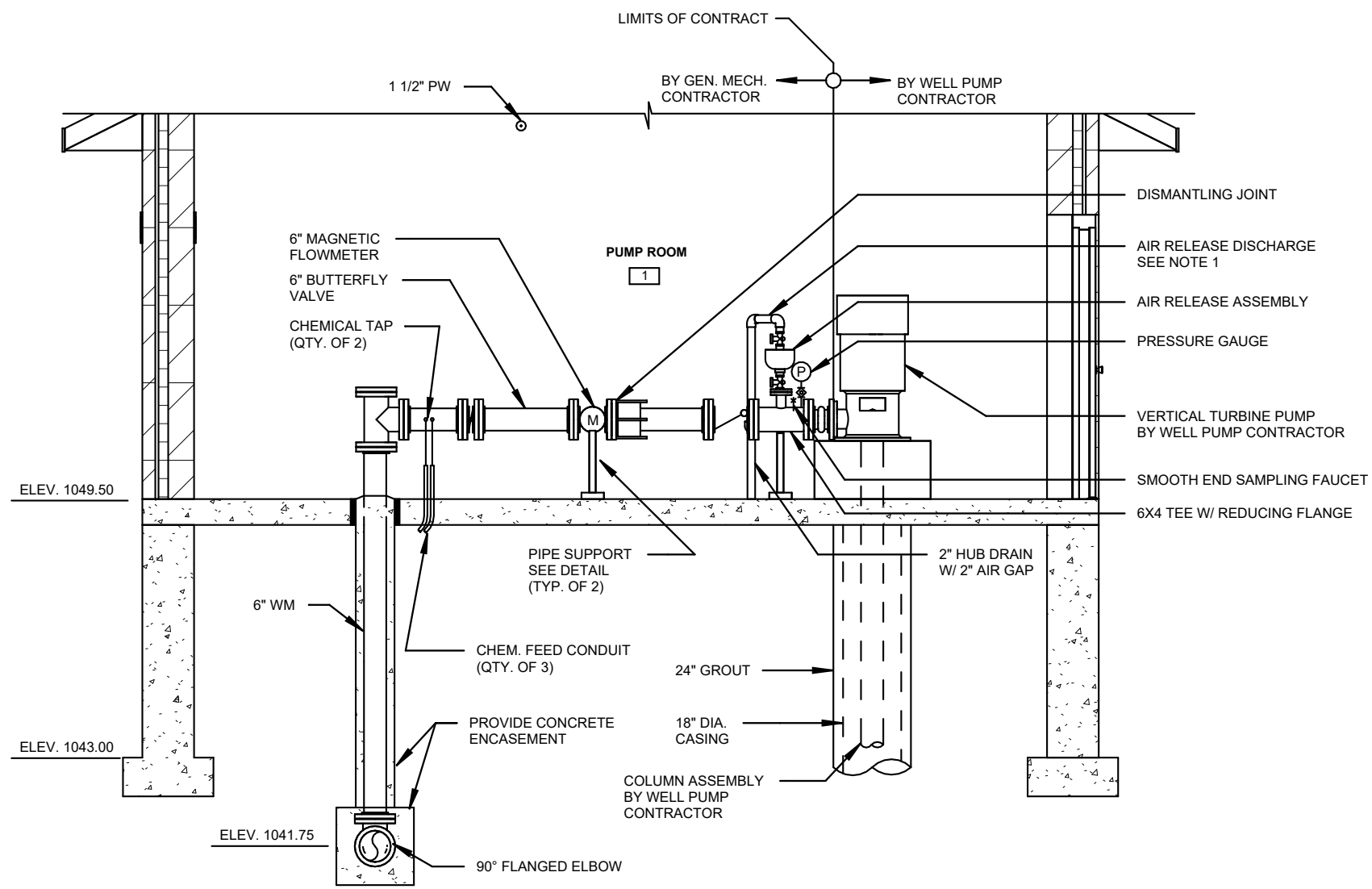
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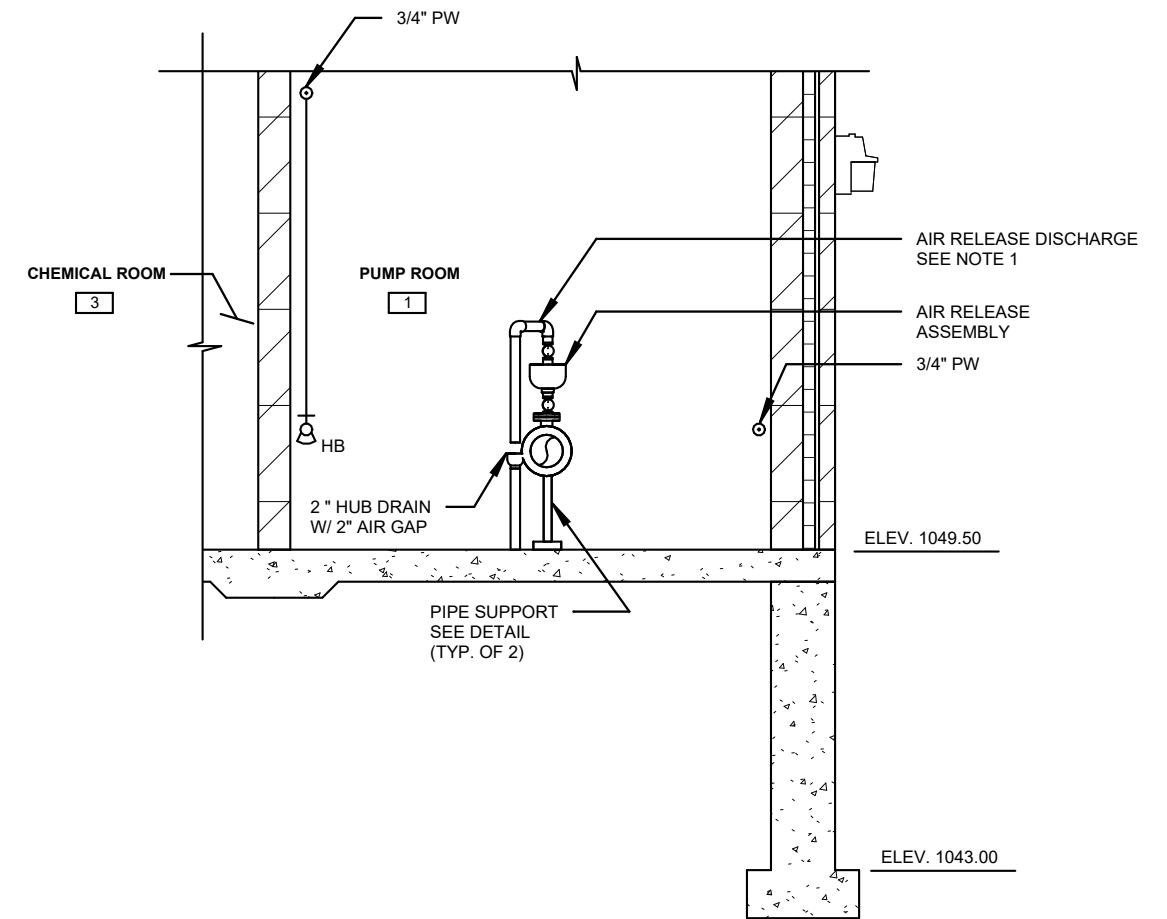
DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

MECHANICAL PLAN & SECTIONS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:	PROJECT NUMBER
SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
CHECKED: SSW, RAJ	M101
DATE: 05/13/2026	



SECTION C - C
1/4" = 1'-0"



SECTION D - D
1/4" = 1'-0"

NOTES:
1. PROVIDE 4 - TO 24 - MESH STAINLESS STEEL SCREEN OVER DISCHARGE.

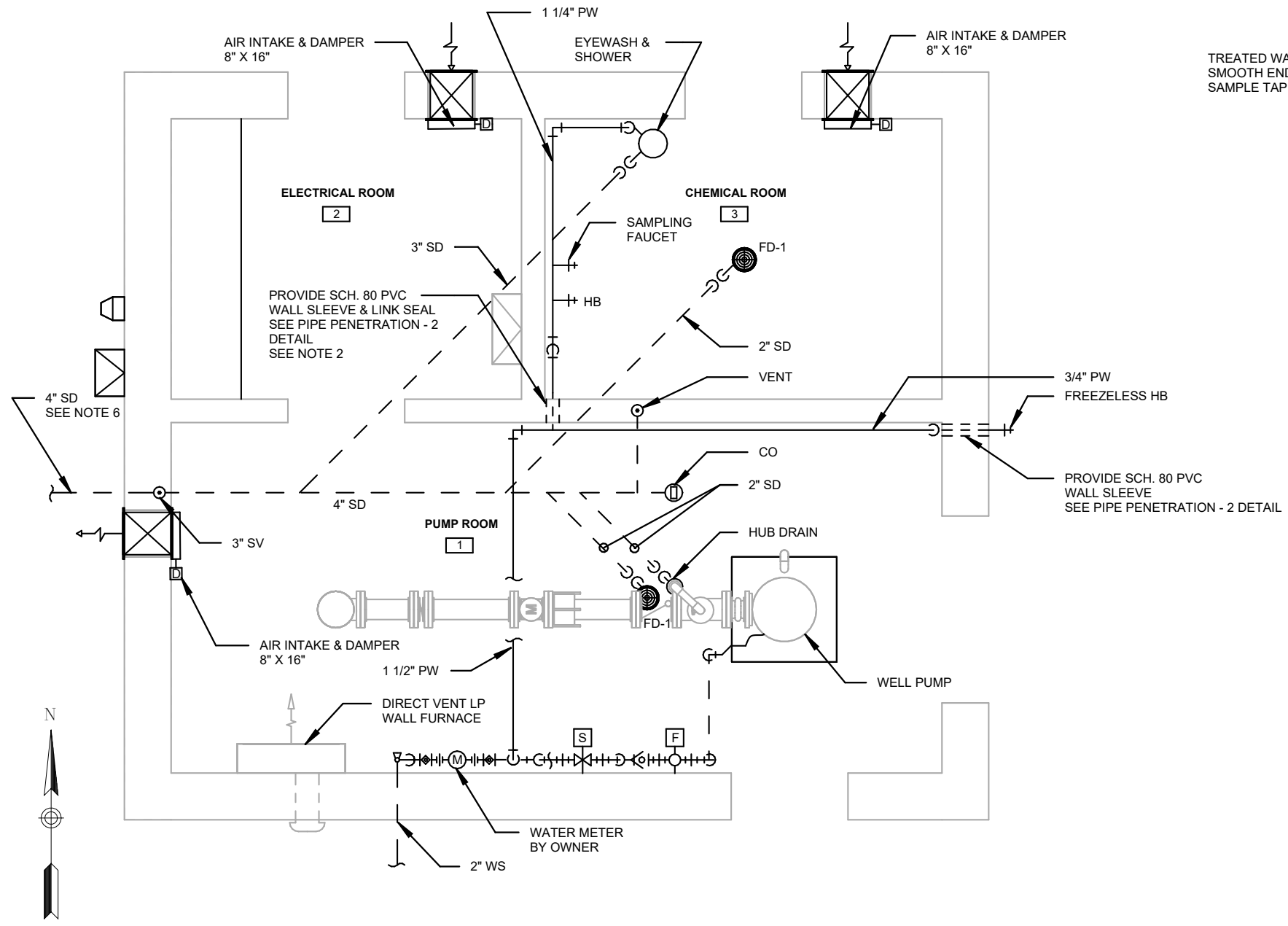
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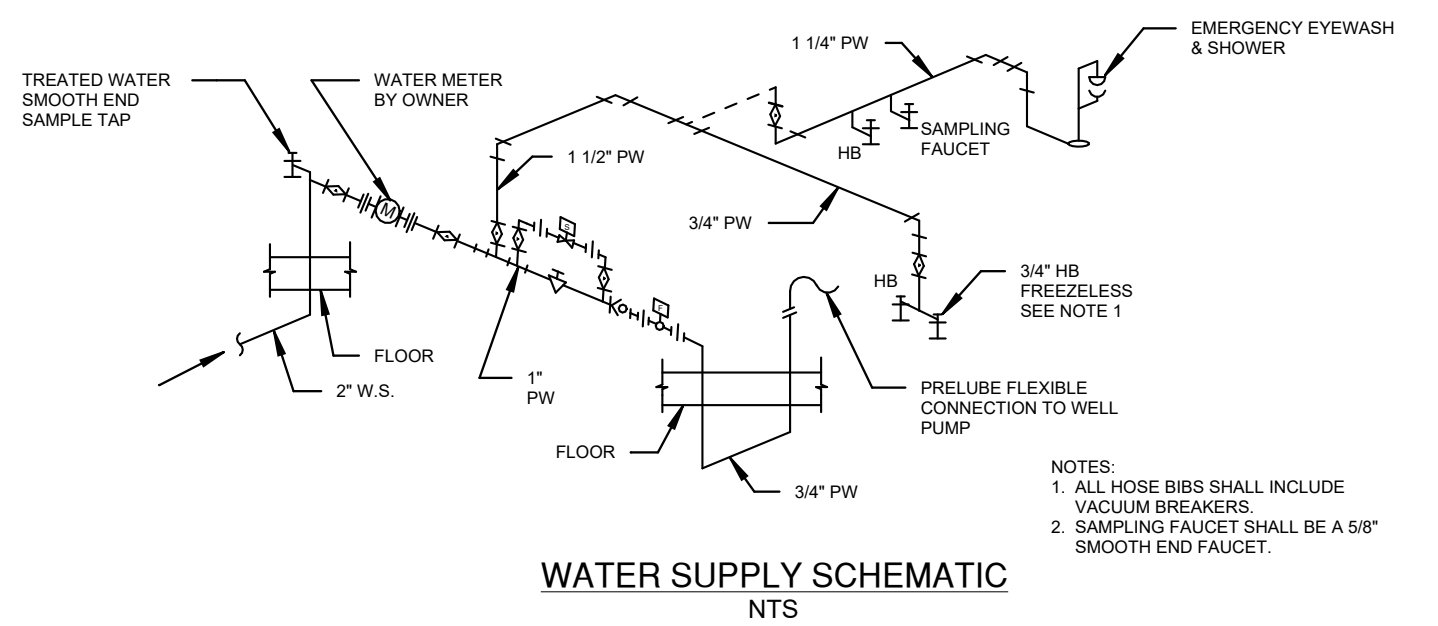
MECHANICAL SECTIONS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

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CHECKED: SSW, RAJ	M102
DATE: 05/13/2026	



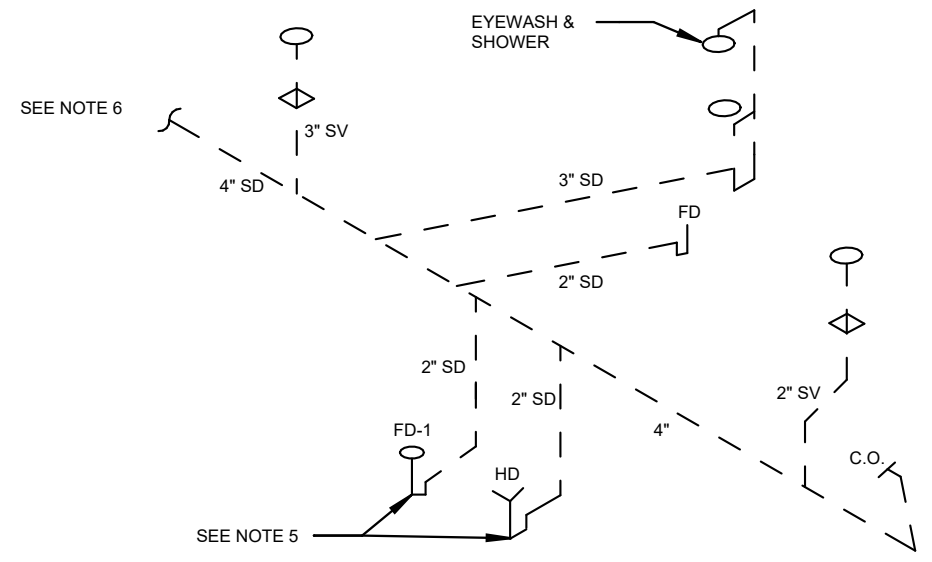
VENTILATION & PLUMBING PLAN
1/4" = 1'-0"

- NOTES:
1. TERMINATE PIPE WITH STAINLESS STEEL SCREEN BANDED TO PIPE.
 2. CHEMICAL ROOM SHALL BE SEALED GAS TIGHT FROM ALL OTHER ROOMS.
 3. SLOPE FLOOR 1/4" PER FOOT TO FLOOR DRAINS IN CHEMICAL ROOM.
 4. SLOPE FLOOR 1/8" PER FOOT TO FLOOR DRAIN IN PUMP ROOM.
 5. FLOOR DRAINS AND HUB DRAINS SHALL BE LOCATED NO CLOSER THAT 2 FEET TO THE OUTER CASING.
 6. FLOOR DRAIN DISCHARGE SHALL BE MIN. OF 25 FT. FROM PUMPHOUSE AND PROVIDED WITH A SECURED SS SCREEN BANDED TO PIPE TO PREVENT RODENTS FROM ENTERING THE DRAIN.



WATER SUPPLY SCHEMATIC
NTS

- NOTES:
1. ALL HOSE BIBS SHALL INCLUDE VACUUM BREAKERS.
 2. SAMPLING FAUCET SHALL BE A 5/8" SMOOTH END FAUCET.



DRAIN & VENT SCHEMATIC
NTS

REVISION DATE	REMARKS



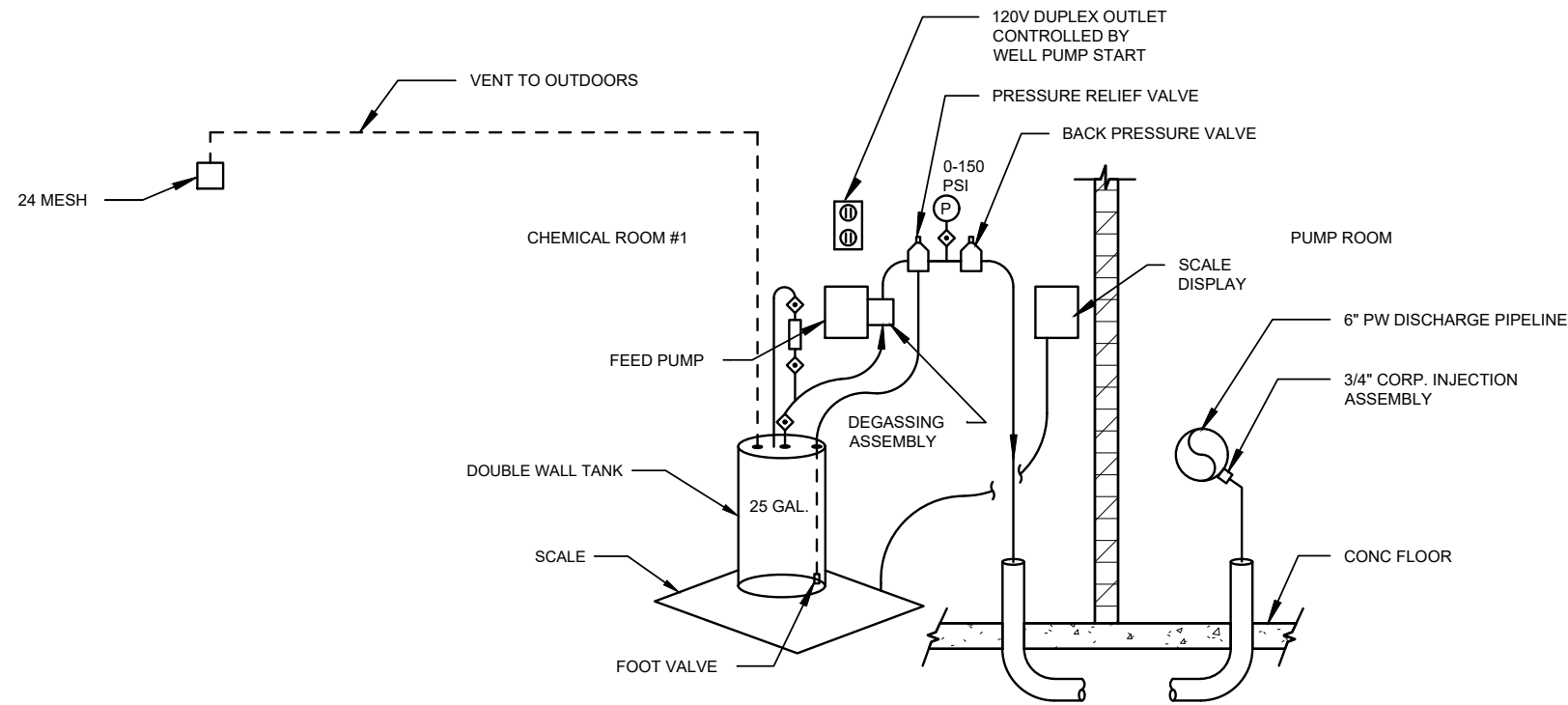
DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

PLUMBING & VENTILATION PLAN & SCHEMATICS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

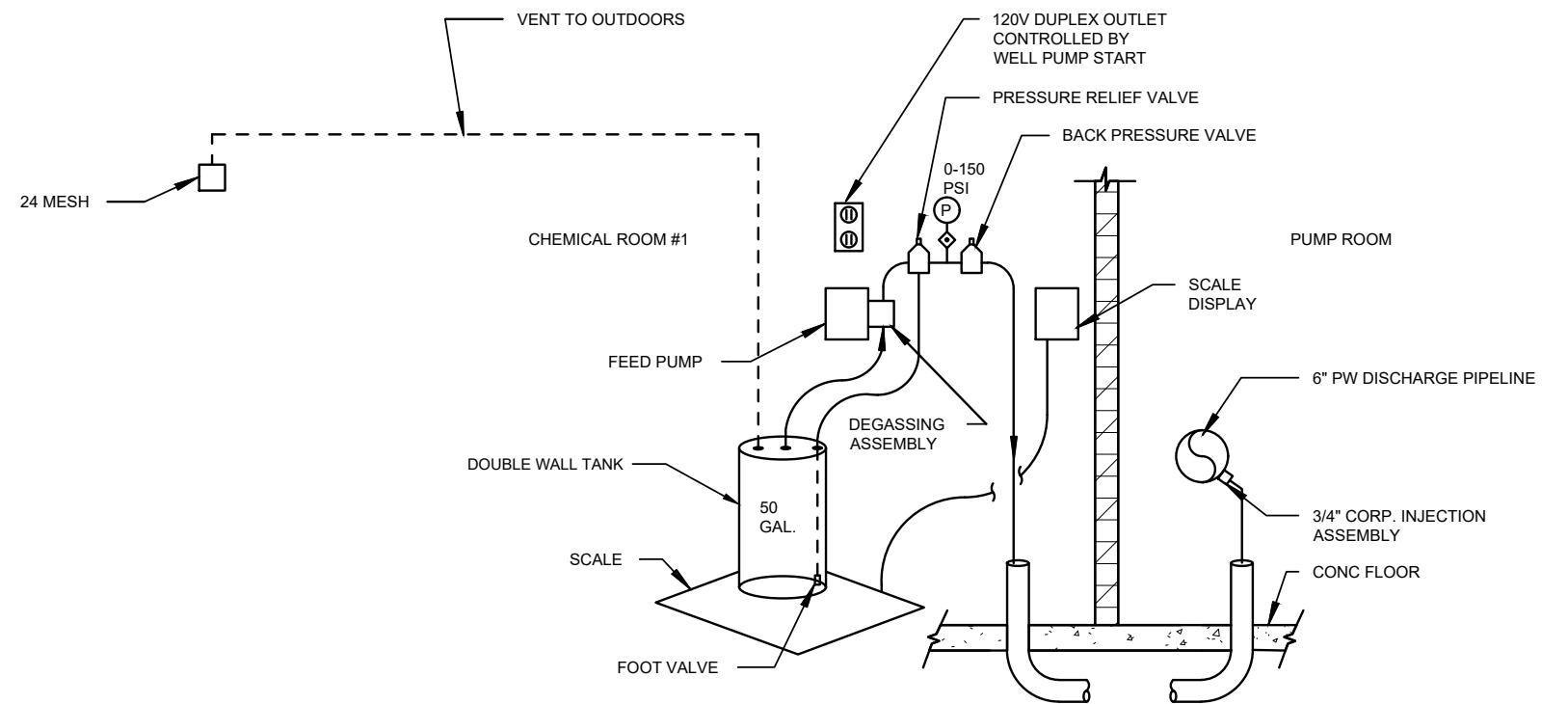
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PROJECT NUMBER
1188-081
SHEET NO.
M103

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CHLORINATION SYSTEM (SODIUM HYPOCHLORITE)
NTS



CAUSTIC SYSTEM (SODIUM HYDROXIDE)
NTS

REVISION DATE	REMARKS



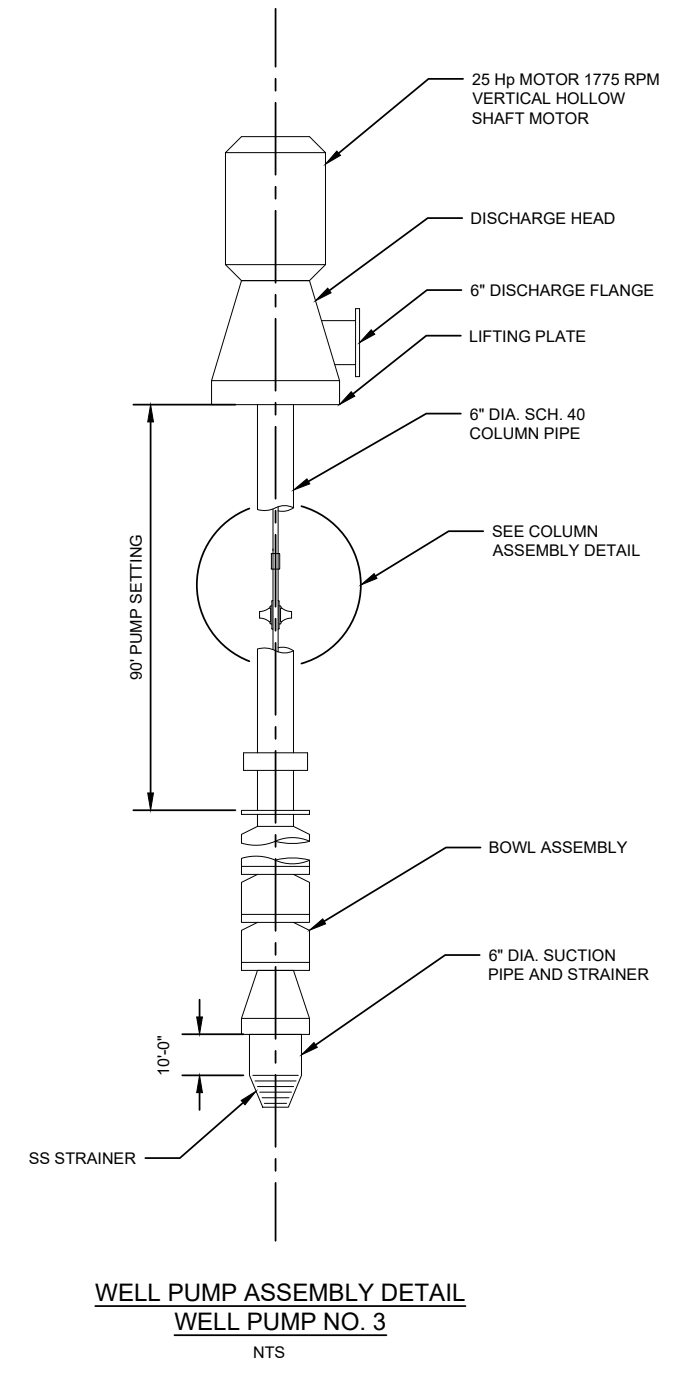
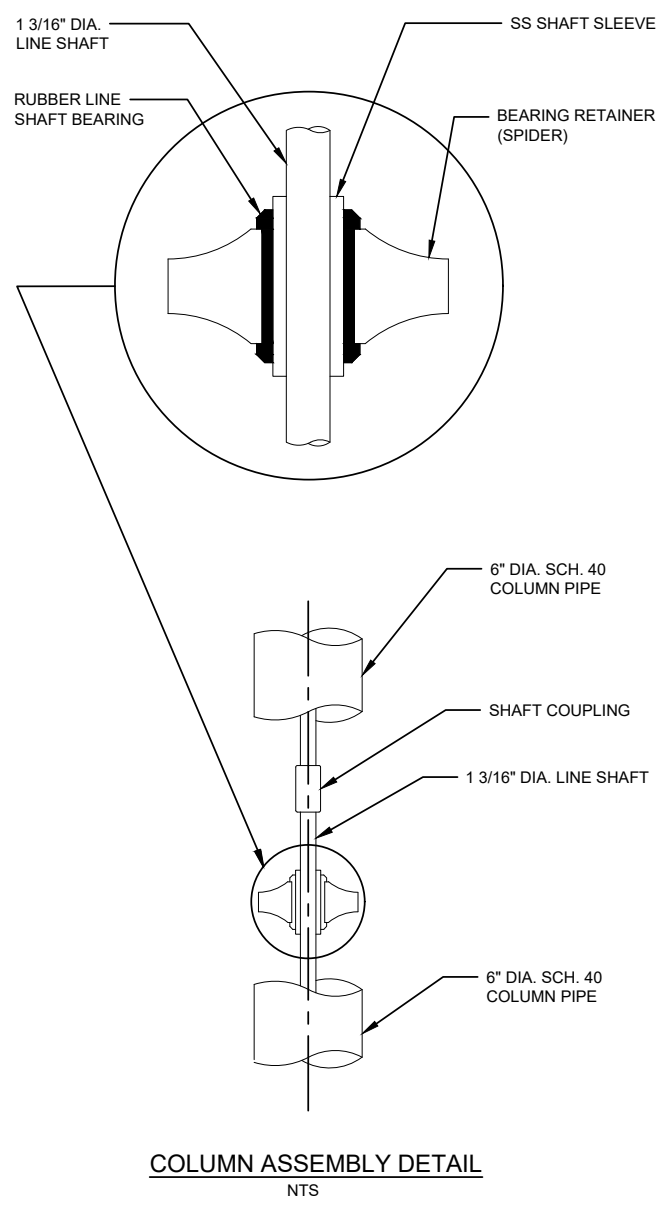
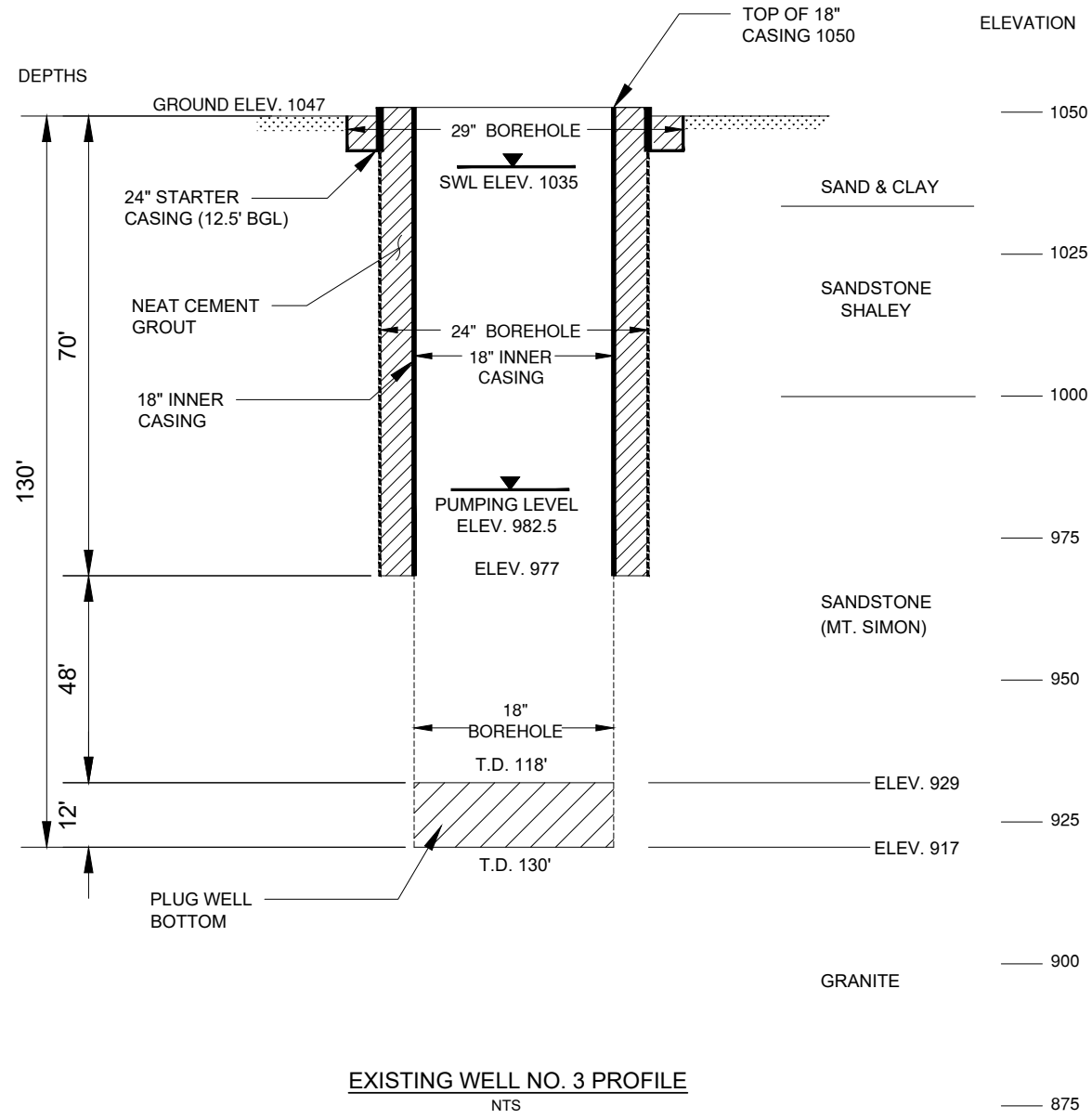
DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

CHEMICAL FEED SCHEMATICS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:	
SCALE: AS SHOWN	
DRAWN: ETE	
CHECKED: SSW, RAJ	
DATE: 05/13/2026	

PROJECT NUMBER	1188-081
SHEET NO.	M104

H:\AutoCad Drawings\2020\Fairchild\1188-081 TURBINE PUMP SECTIONS & DETAILS - 1.dwg, 5/13/2026 10:39:39 AM, AutoCAD PDF (General Documentation).pc3



- NOTES:
- ADJUST CASING FOR CENTERLINE OF NEW DISCHARGE PIPING SEE DETAIL
 - FINISH FLOOR ELEV. = 1049.50
 - TOP OF PUMP BASE ELEV. = 1051.00

WELL NO. 3 DATA

DRILL DATE: 2026
 DRILLED BY: NELSON PLUMBING & ELECTRIC
 DRILLING EQUIPMENT: MUD DRILLING AND AIR ROTARY
 SPECIFIC CAPACITY: 5.5 GPM/FT

REVISION DATE	REMARKS

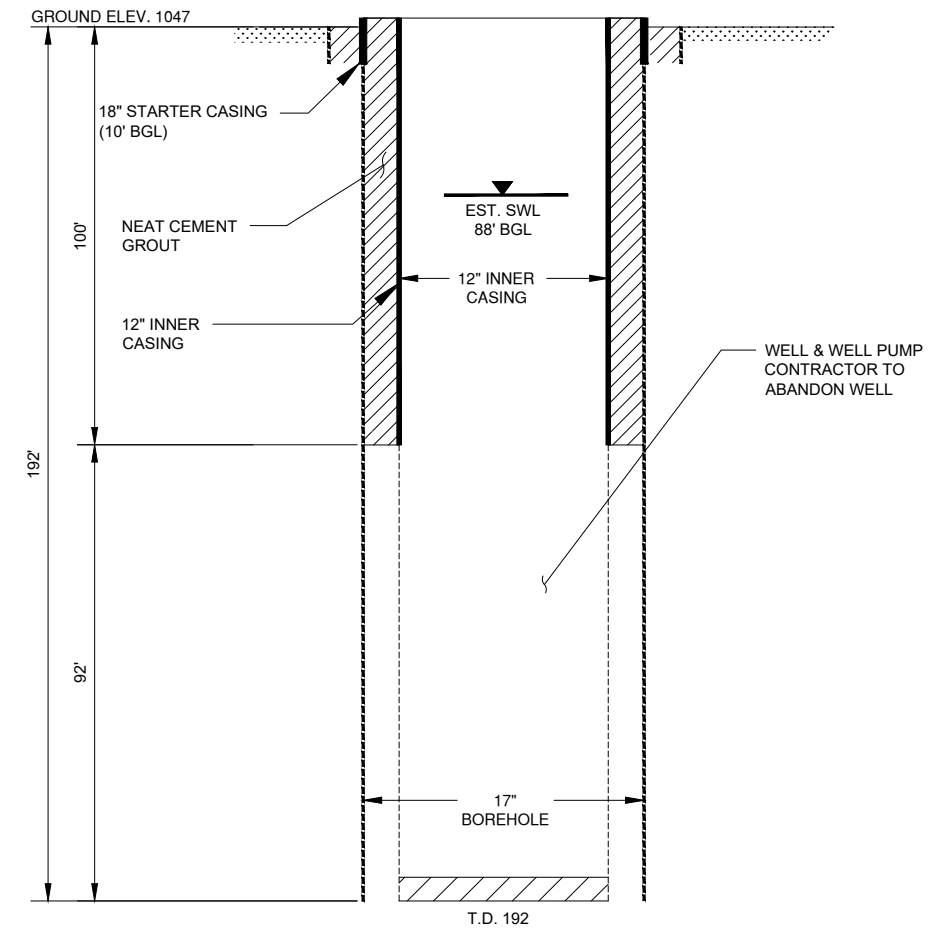
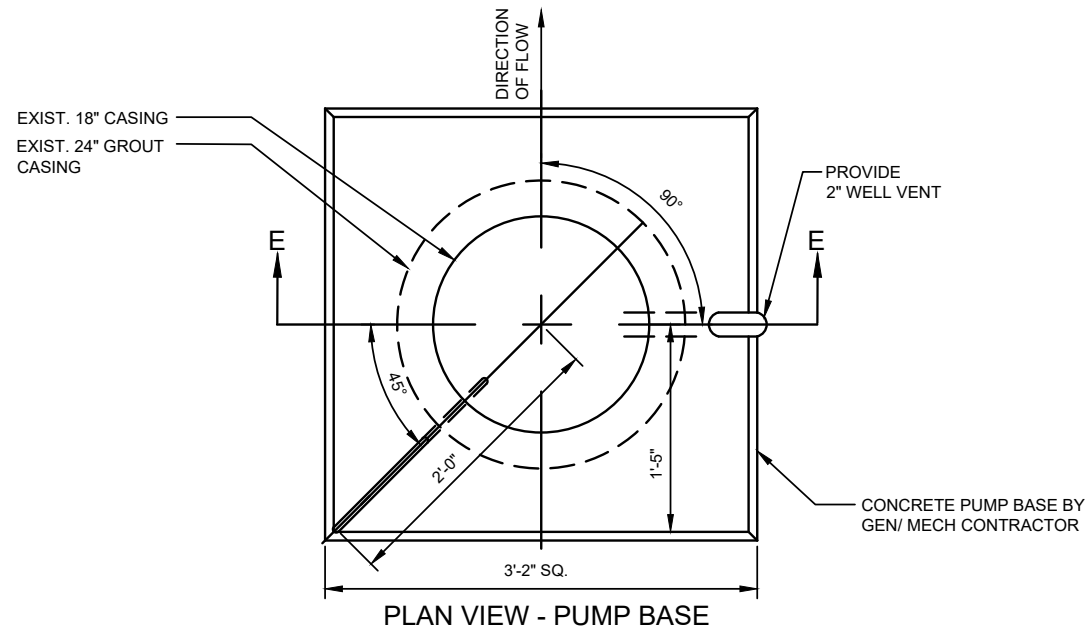


DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

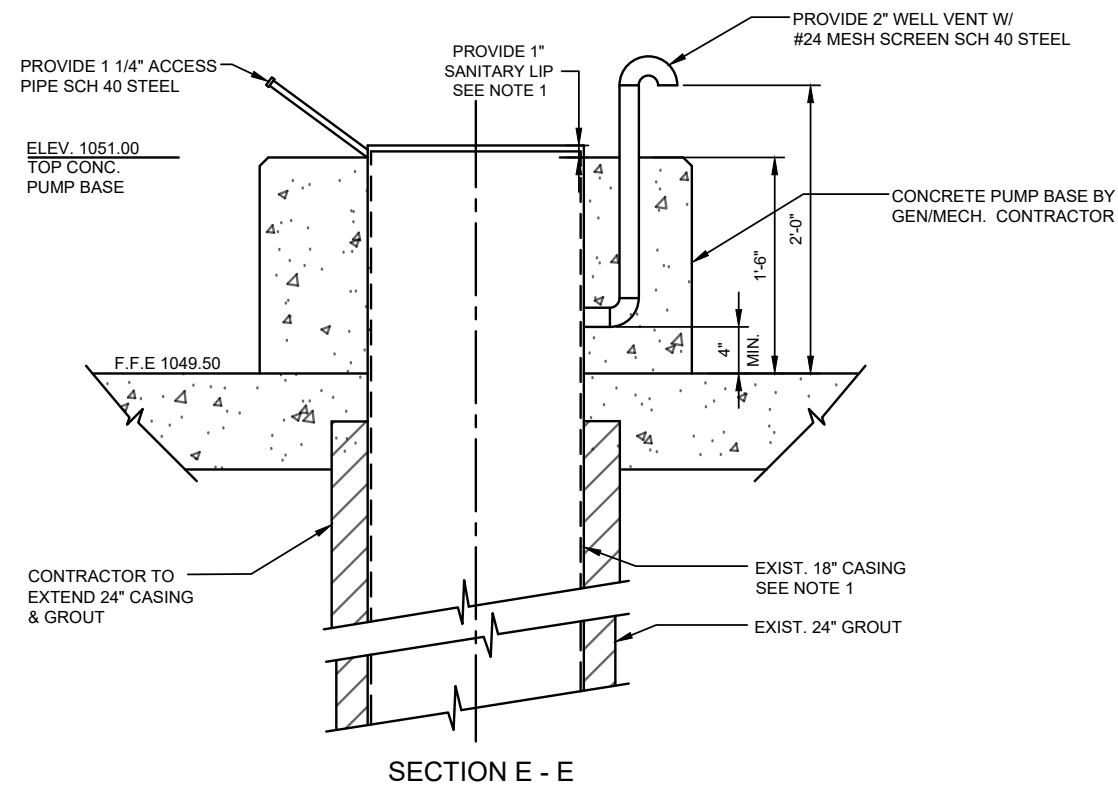
WELL #3 PROFILE, TURBINE PUMP SECTIONS & DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:
SCALE: AS SHOWN
DRAWN: ETE
CHECKED: SSW, RAJ
DATE: 05/13/2026

PROJECT NUMBER
1188-081
SHEET NO.
W101



EXISTING WELL NO. 1 - PROFILE
NTS



WELL PUMP NO. 3 BASE DETAIL
3/4" = 1'-0"

REVISION DATE	REMARKS



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LA CROSSE, WISCONSIN

WELL PUMP BASE & WELL #1 PROFILE
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

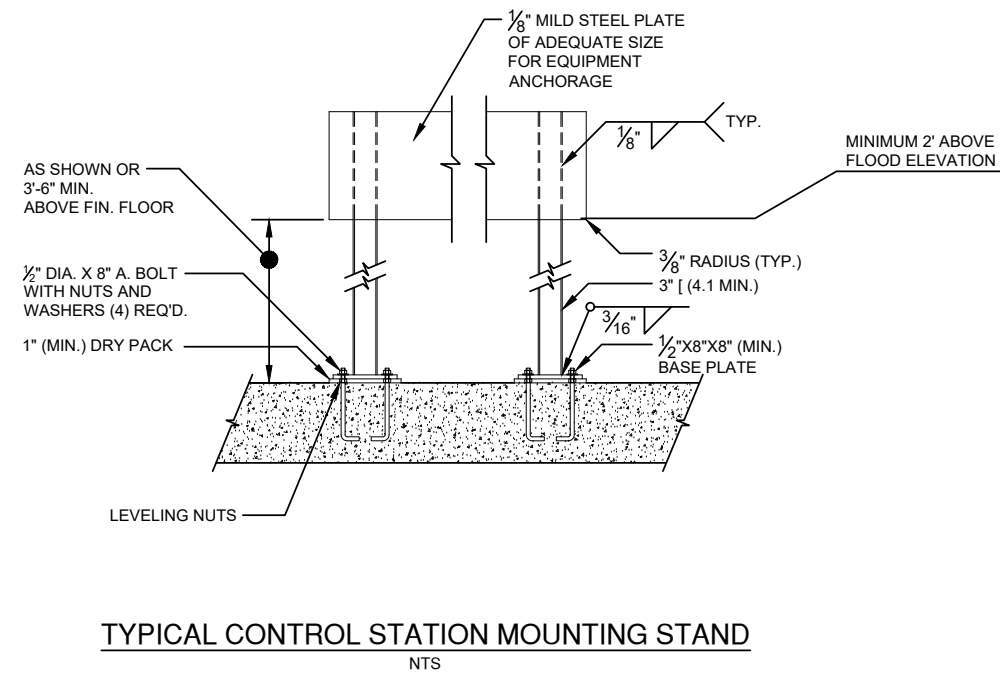
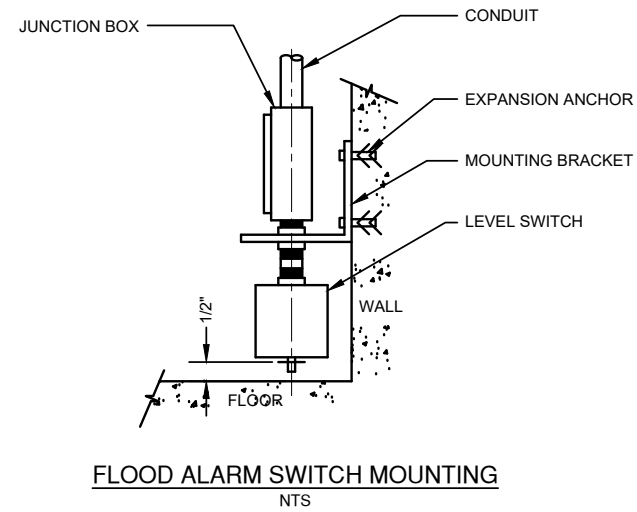
PROJECT NUMBER	1188-081
SHEET NO.	W102
FIELDBOOK:	
SCALE:	AS SHOWN
DRAWN:	ETE
CHECKED:	SSW, RAJ
DATE:	05/13/2026

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H:\AutoCad Drawings\2020\Fairchild\1188-081 INSTRUMENTATION ABBR.& SYMBOLS.dwg, 5/13/2026 10:41:03 AM, AutoCAD PDF (General Documentation).pc3

ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	MOTOR
	DISCONNECT
	SWITCH
	OUTLET
	DUPLEX SPECIAL PURPOSE OUTLET
	LIGHT - LED WRAP AROUND 4' LIGHT FIXTURE
	LIGHT - LED WRAP AROUND 8' LIGHT FIXTURE
	LIGHT - WALL MOUNTED LIGHT FIXTURE
	LIGHT, LETTER IN SYMBOL DESIGNATES FIXTURE TYPE
	ANTENNA
	PLUG CONNECTION
	PANEL
	JUNCTION BOX
	GROUND
	EXPOSED CONDUIT
	CONCEALED CONDUIT, FLOOR OR WALL
	CONCEALED CONDUIT, CEILING
	TEMPERATURE SWITCH
	UNDERGROUND ELECTRIC
	EXIT LIGHT
	EMERGENCY LIGHT
	PHOTO-ELECTRIC (EYE) SENSOR
	SPECIAL PURPOSE OUTLET
	OFF/NORM TEST

INSTRUMENTATION ABBREVIATIONS & SYMBOLS	
	INSTRUMENT
	FIELD MOUNTED INSTRUMENT
	ITEM IDENTIFICATION FACE MOUNTED PANEL INSTRUMENT CONTROL BOARD SYMBOL
	ITEM IDENTIFICATION INTERIOR MOUNTED PANEL INSTRUMENT CONTROL BOARD SYMBOL
	PROCESS FLOW LINE
	MILLIAMPERE SIGNAL
	ULTRASONIC SIGNAL
	120V AC SUPPLY
	FLUME
	FLOW INDICATOR TRANSMITTER
	FLOW TOTALIZER



RTU PANEL SCHEDULE			
LOCATION	DESCRIPTION	NEMA ENCLOSURE TYPE	REMARKS
STANDPIPE	EXISTING PANEL TO BE MODIFIED	12	RELOCATE TO ADJACENT SERVICE BUILDING
WELL PUMPHOUSE NO.2	EXISTING PANEL TO BE MODIFIED	12	
WELL PUMPHOUSE NO. 3	PROPOSED	12	ELECTRICAL ROOM
SEWAGE LIFT STATION NO. 1	FUTURE PANEL	---	
SEWAGE LIFT STATION NO. 2	FUTURE PANEL	---	
SEWAGE LIFT STATION NO. 3	FUTURE PANEL	---	
SEWAGE LIFT STATION NO. 4	FUTURE PANEL	---	
SEWAGE LIFT STATION NO. 5	FUTURE PANEL	---	
SEWAGE LIFT STATION NO. 6	FUTURE PANEL	---	
SEWAGE FLOW METERING STATION	FUTURE PANEL	---	

REVISION DATE	REMARKS



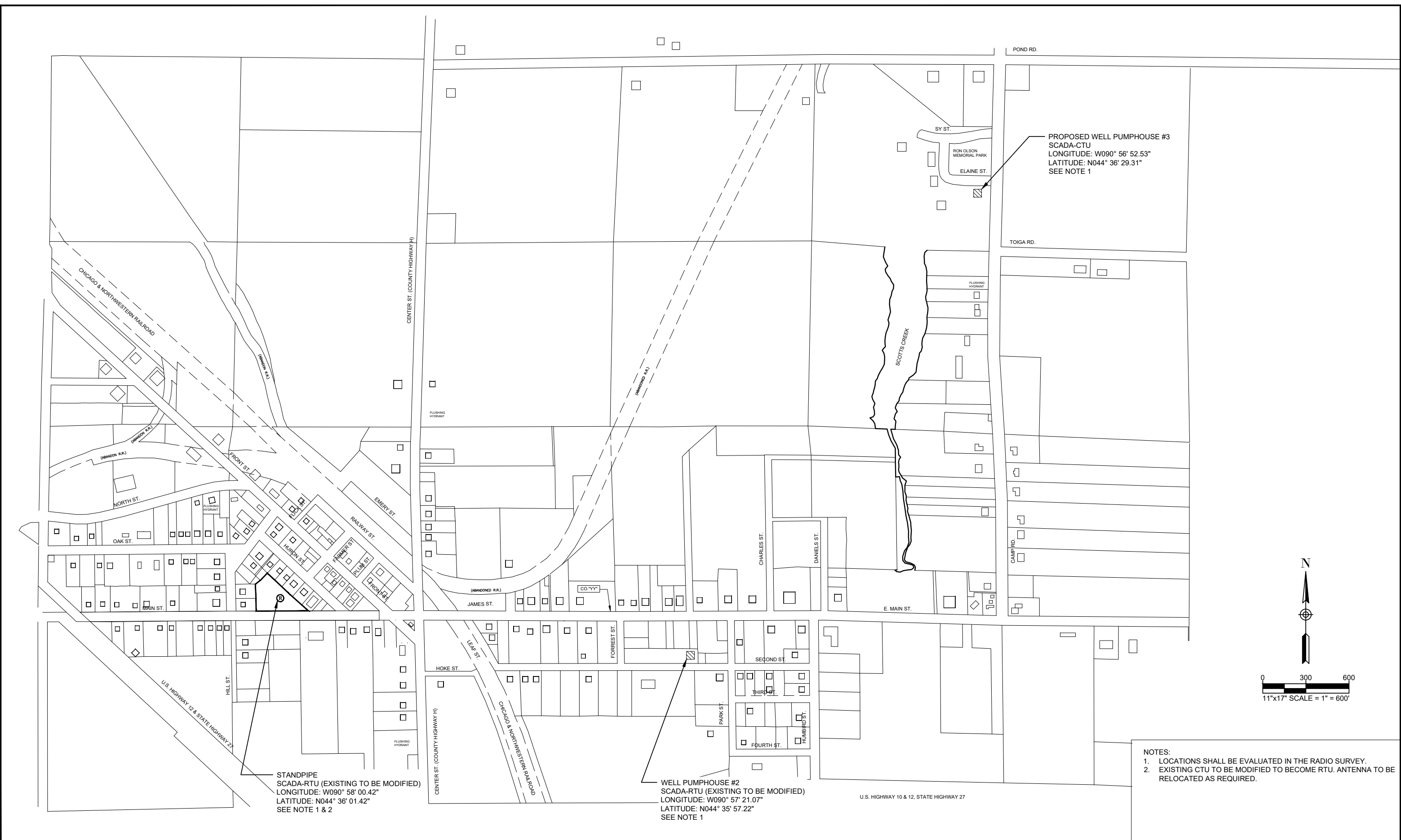
DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

INSTRUMENTATION SYMBOLS, ABBREV. & DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:
SCALE: AS SHOWN
DRAWN: ETE
CHECKED: SSW, RAJ
DATE: 05/13/2026

PROJECT NUMBER
1188-081
SHEET NO.
11

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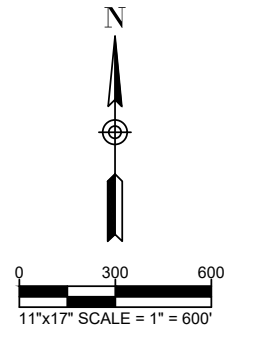


PROPOSED WELL PUMPHOUSE #3
 SCADA-CTU
 LONGITUDE: W090° 56' 52.53"
 LATITUDE: N044° 36' 29.31"
 SEE NOTE 1

STANDPIPE
 SCADA-RTU (EXISTING TO BE MODIFIED)
 LONGITUDE: W090° 58' 00.42"
 LATITUDE: N044° 36' 01.42"
 SEE NOTE 1 & 2

WELL PUMPHOUSE #2
 SCADA-RTU (EXISTING TO BE MODIFIED)
 LONGITUDE: W090° 57' 21.07"
 LATITUDE: N044° 35' 57.22"
 SEE NOTE 1

NOTES:
 1. LOCATIONS SHALL BE EVALUATED IN THE RADIO SURVEY.
 2. EXISTING CTU TO BE MODIFIED TO BECOME RTU. ANTENNA TO BE RELOCATED AS REQUIRED.



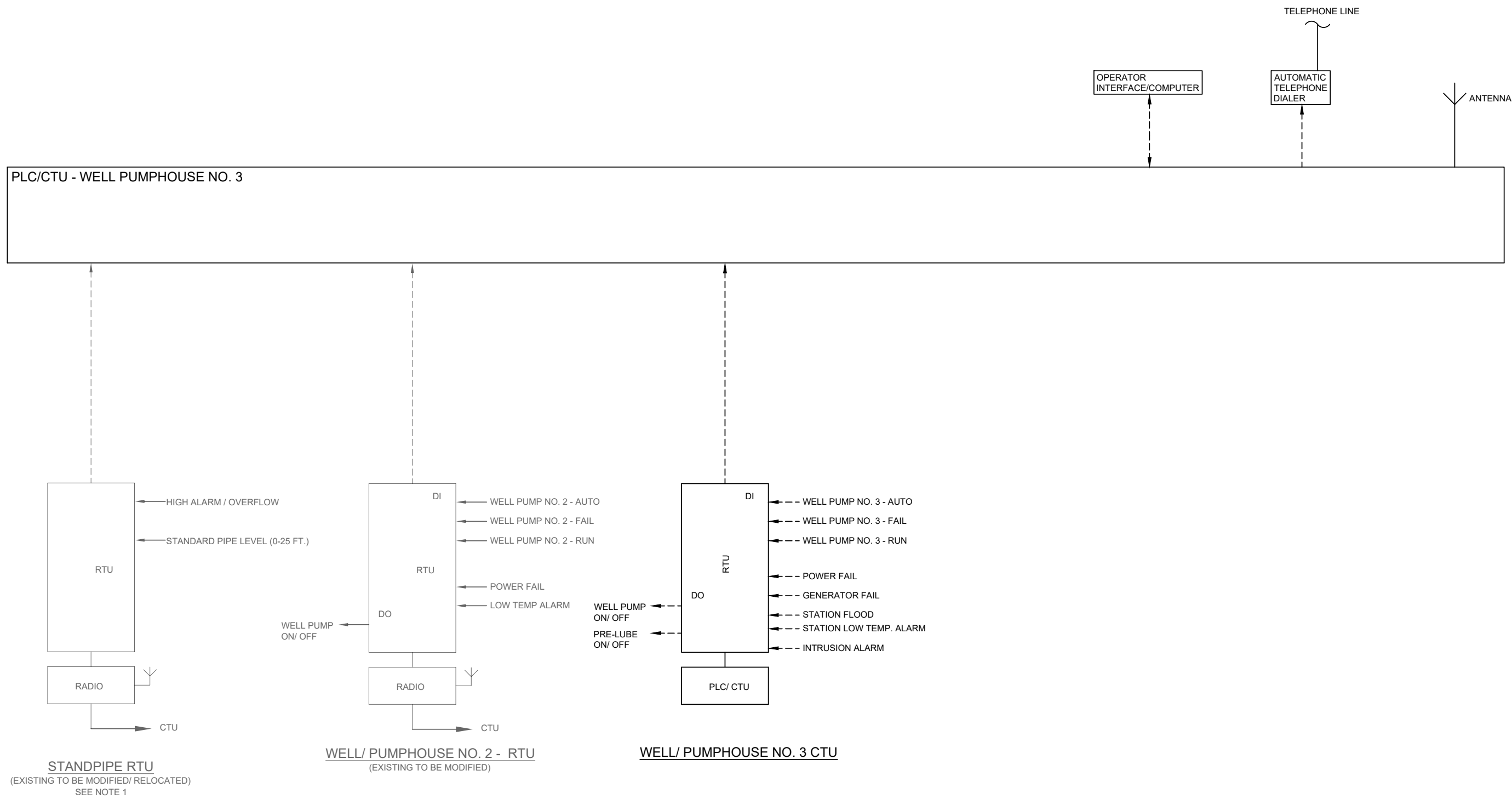
REVISION DATE	REMARKS

DAVY ENGINEERING CO.
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SCADA SYSTEM CTU/ RTU LOCATIONS
 PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
 VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:	PROJECT NUMBER
SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
CHECKED: SSW, RAJ	110
DATE: 05/13/2026	

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- NOTES:
- EXISTING CTU TO BE CONVERTED TO A RTU. RELOCATE PANEL FROM PUMPHOUSE NO. 1 WHICH IS BEING DEMOLISHED TO THE UTILITY BUILDING ADJACENT STANDPIPE.
 - PROVIDE EXPANDABILITY IN FUTURE FOR SEWAGE LIFT STATION NO. 1-6 AND SEWAGE FLOW METERING STATION.

REVISION DATE	REMARKS

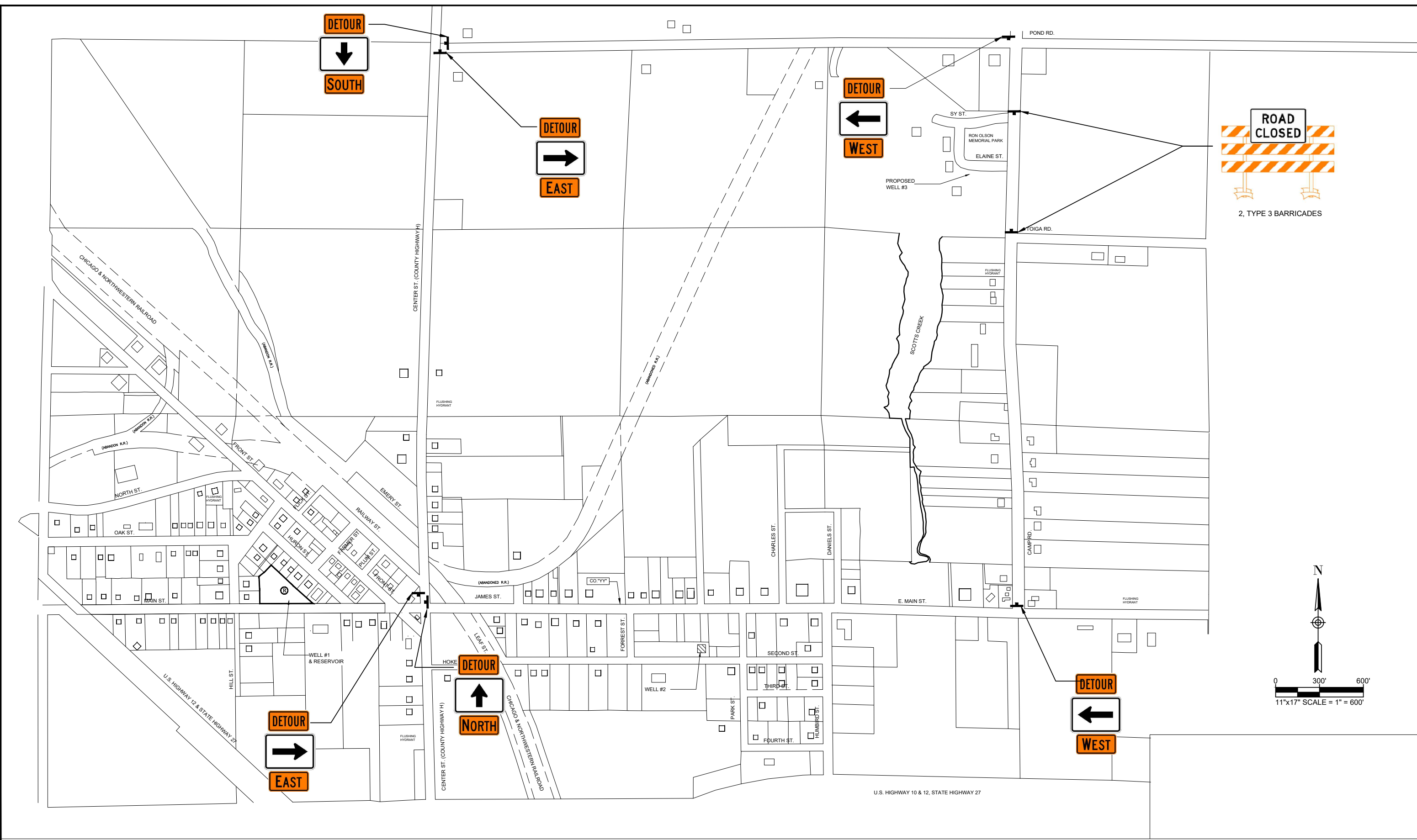


DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

SCADA & RTU SYSTEM SCHEMATIC
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:	PROJECT NUMBER
SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
CHECKED: SSW, RAJ	1101
DATE: 05/13/2026	

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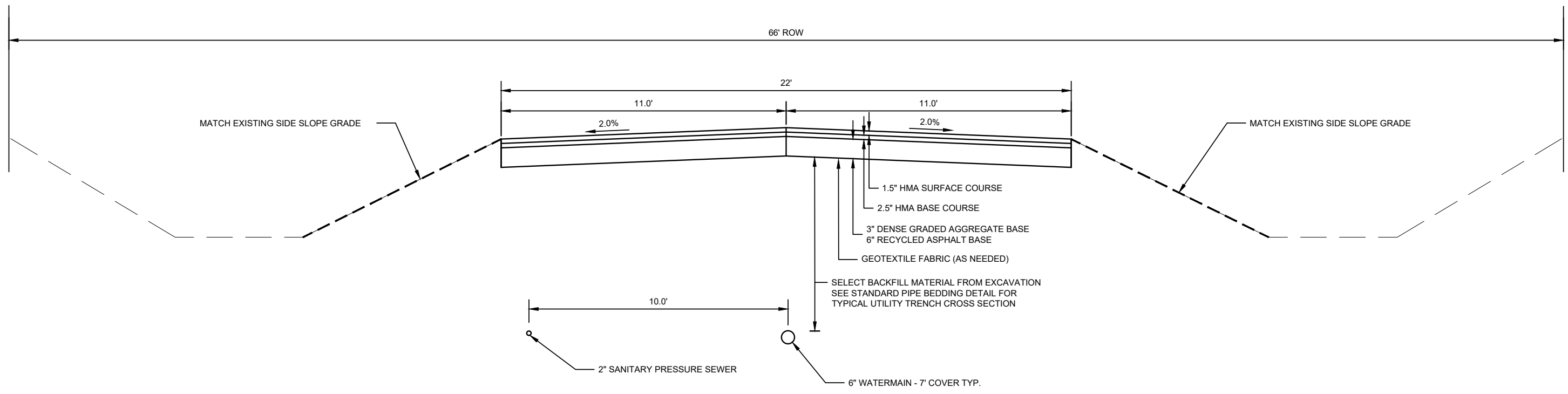
REVISION DATE	REMARKS

DAVY ENGINEERING
DAVY ENGINEERING CO.
 LA CROSSE, WISCONSIN

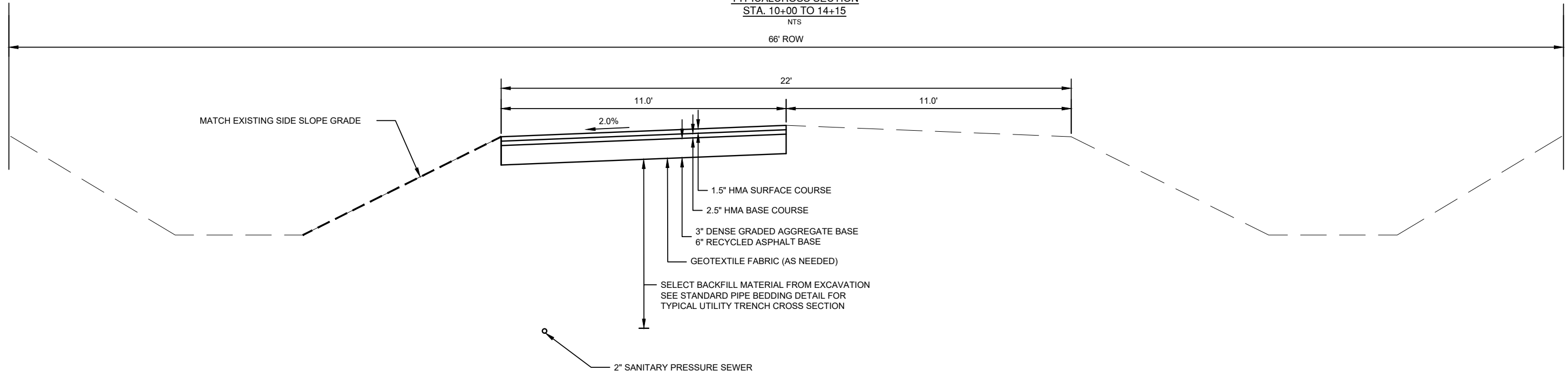
TRAFFIC CONTROL PLAN
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:	PROJECT NUMBER
SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
CHECKED: SSW, RAJ	P1
DATE: 05/13/2026	

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TYPICAL CROSS SECTION
STA. 10+00 TO 14+15
NTS



TYPICAL CROSS SECTION
STA. 14+15 TO 18+00
NTS

REVISION DATE	REMARKS

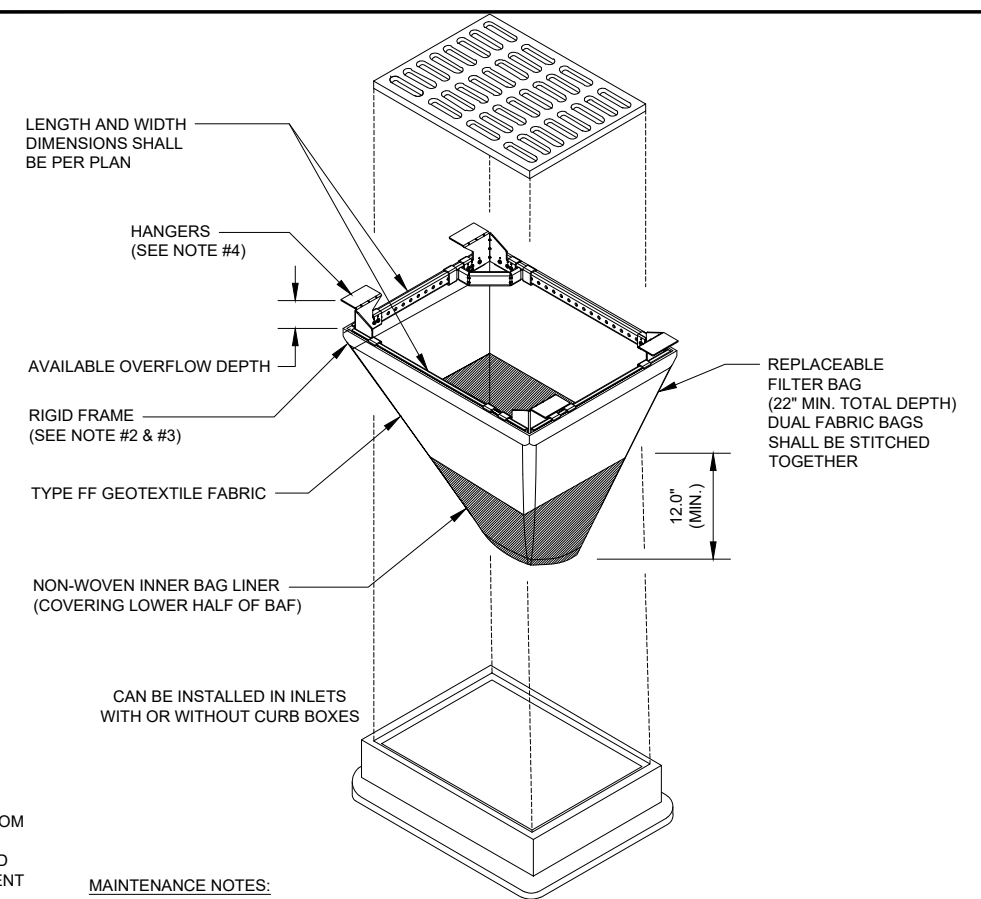
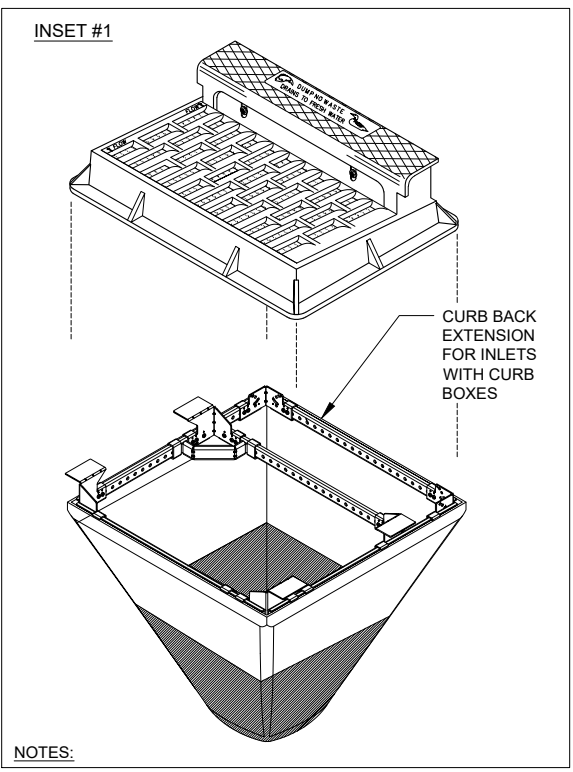


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LA CROSSE, WISCONSIN

TYPICAL SECTION FOR WATERMAIN RESTORATION
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

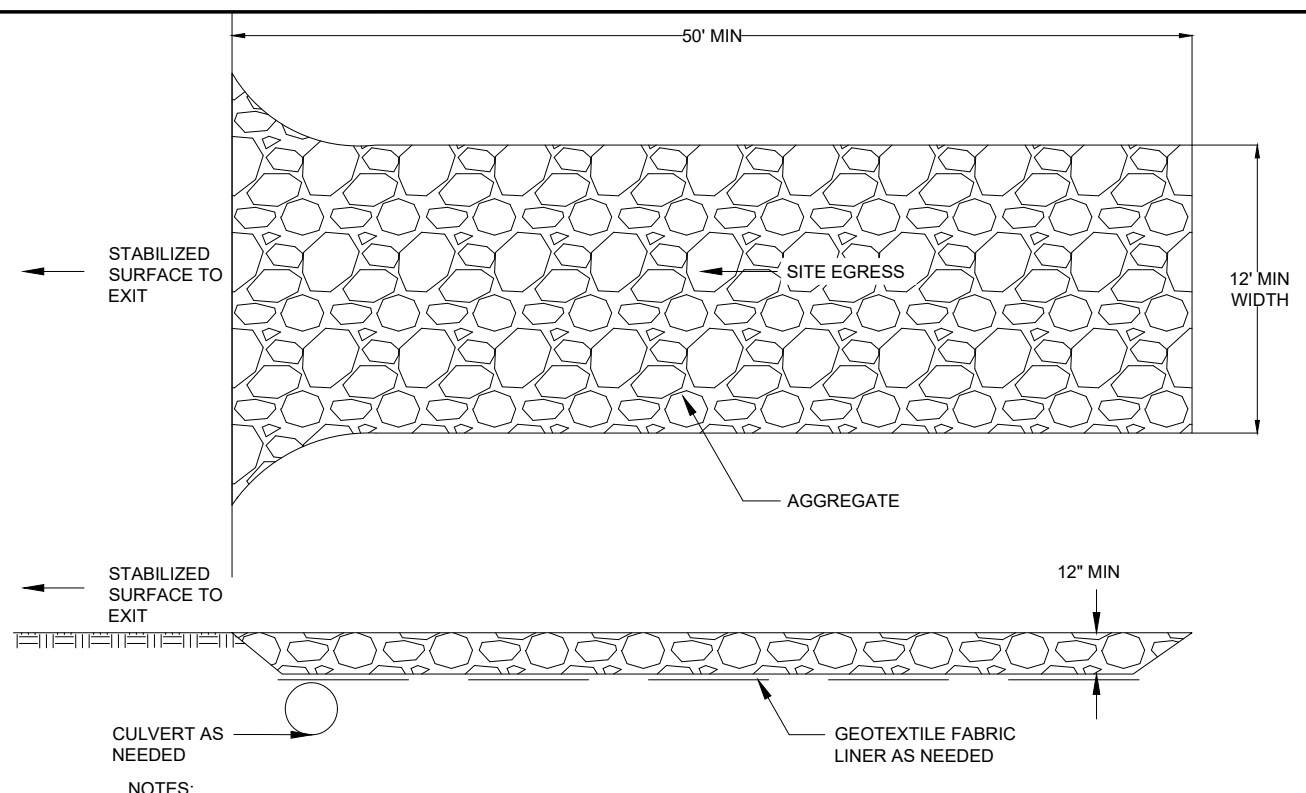
FIELDBOOK:	PROJECT NUMBER
SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
CHECKED: SSW, RAJ	P2
DATE: 05/13/2026	

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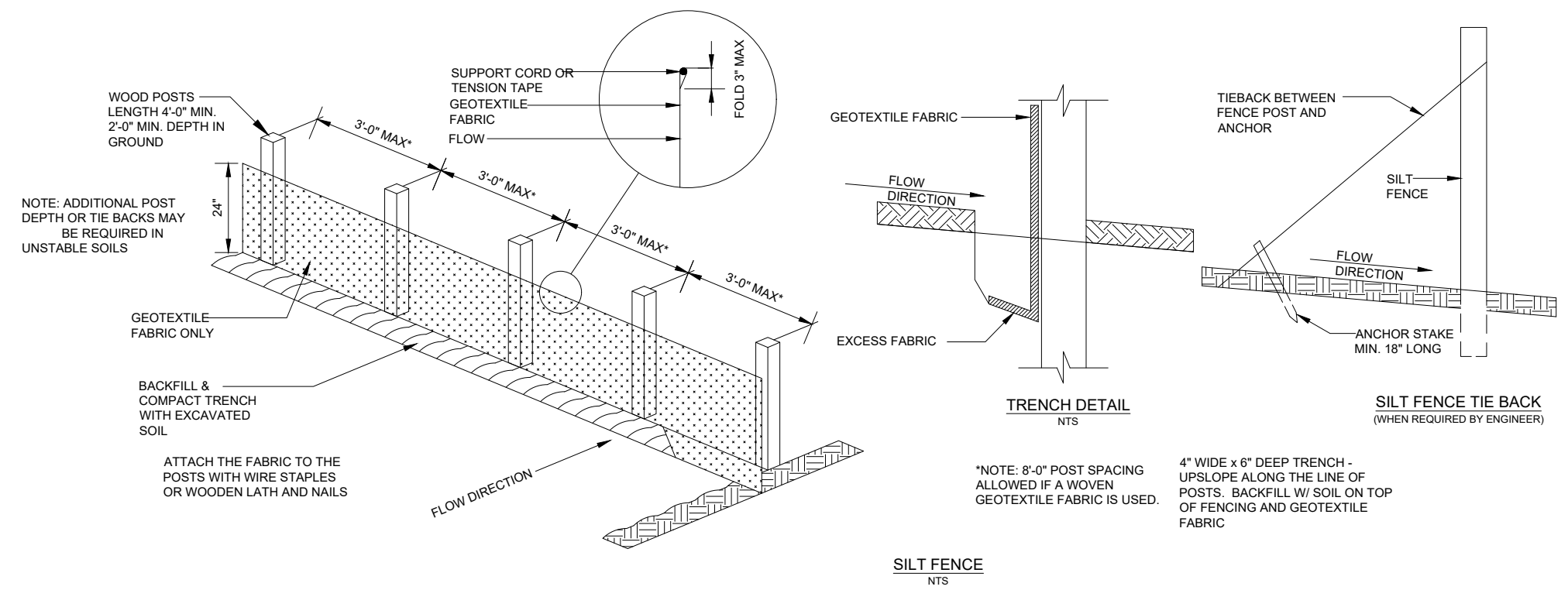
- NOTES:**
1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCH OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
 2. THE RIGID FRAME SHALL BE CONSTRUCTED OF GALVANIZED STEEL AND HAVE ADEQUATE STRENGTH TO SUPPORT THE WEIGHT OF THE SEDIMENT BAG WHEN COMPLETELY FULL.
 3. THE RIGID FRAME SHALL NOT INTERFERE WITH OR ELEVATE THE GRATE MORE THAN 1/8".
 4. DROP THE INLET FILTER THROUGH THE CLEAR OPENING SUCH THAT THE HANGERS REST FIRMLY ON THE LIP OF THE STRUCTURE.

- MAINTENANCE NOTES:**
1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE STRUCTURE SHALL BE IMMEDIATELY REMOVED.

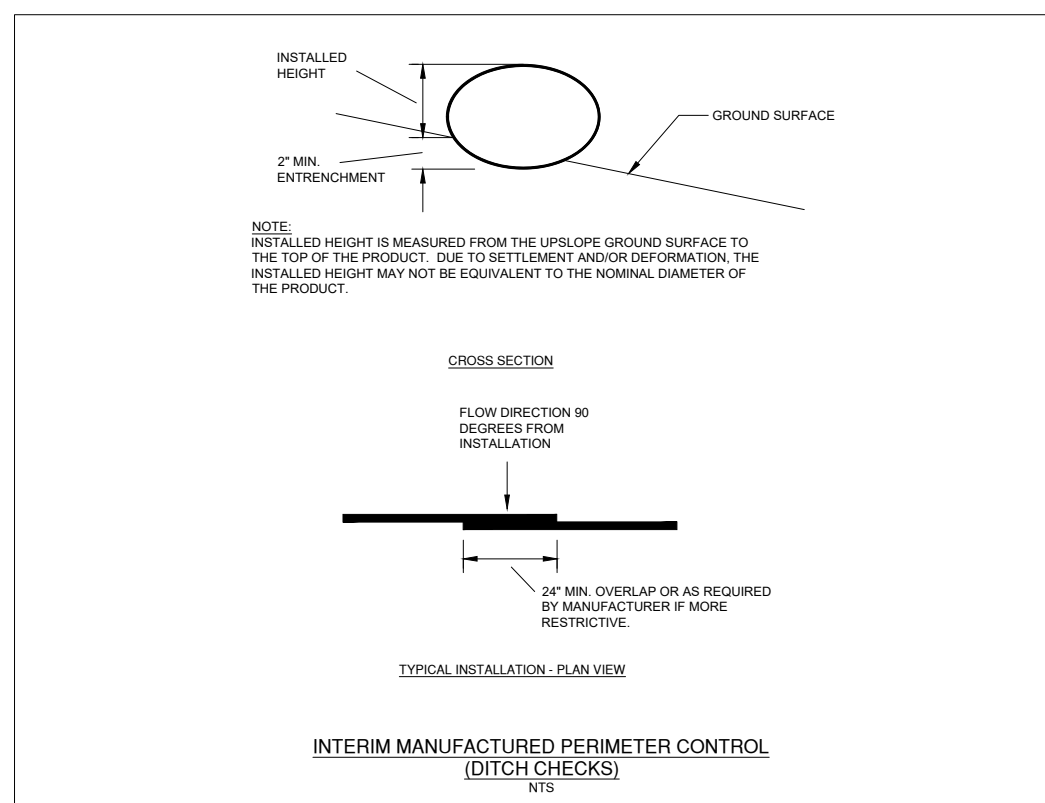


- NOTES:**
1. USE HARD, DURABLE, ANGULAR STONE OR RECYCLED CONCRETE MEETING THE GRADATION IN TABLE 1. WHERE THIS GRADATION IS NOT AVAILABLE, MEET THE GRADATION IN WISCONSIN DEPARTMENT OF TRANSPORTATION (DOT) 2018 STANDARD SPECIFICATION, SECTION 312, SELECT CRUSHED MATERIAL.
 2. SLOPE THE STONE TRACKING PAD IN A MANNER TO DIRECT RUNOFF TO AN APPROVED TREATMENT PRACTICE.
 3. SELECT FABRIC TYPE BASED ON SOIL CONDITIONS AND VEHICLES LOADING.
 4. INSTALL TRACKING PAD ACROSS FULL WIDTH OF THE ACCESS POINT, OR RESTRICT EXISTING TRAFFIC TO A DEDICATED EGRESS LANE AT LEAST 12' WIDE ACROSS THE TOP OF THE PAD.
 5. IF A 50' PAD LENGTH IS NOT POSSIBLE DUE TO SITE GEOMETRY, INSTALL THE MAXIMUM LENGTH PRACTICABLE AND SUPPLEMENT WITH ADDITIONAL PRACTICES AS NEEDED.

INLET PROTECTION DETAIL, TYPE D-RF



STONE TRACKING PAD DETAIL

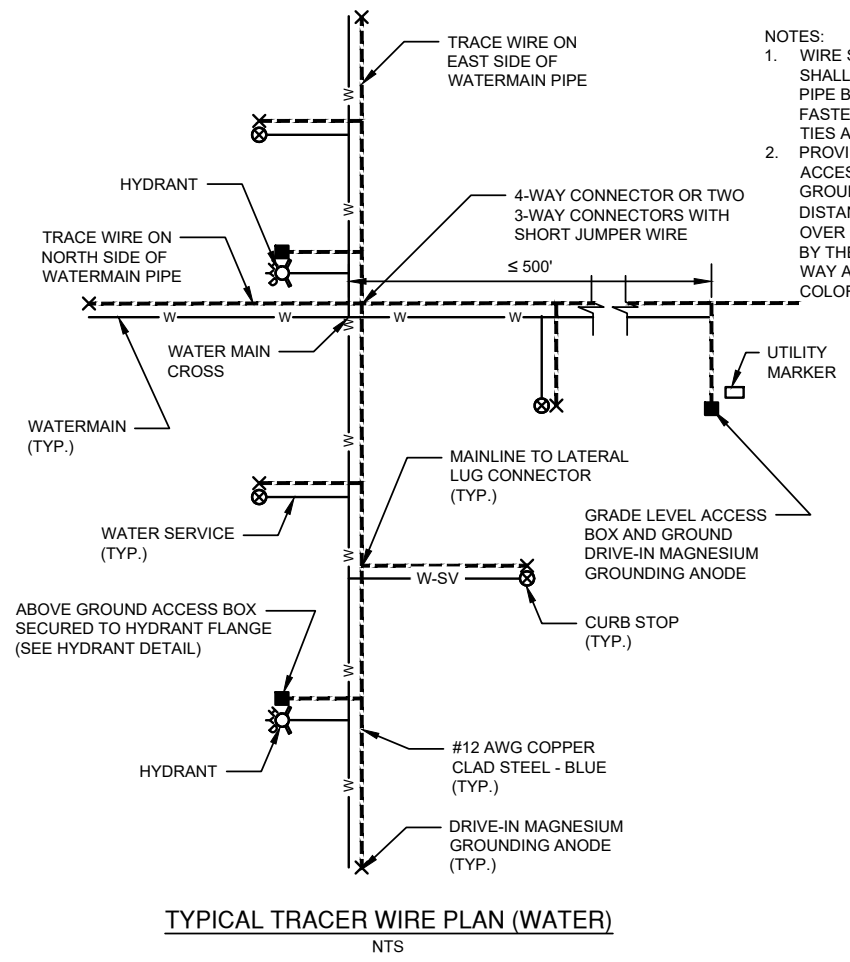


REVISION DATE	REMARKS

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LA CROSSE, WISCONSIN

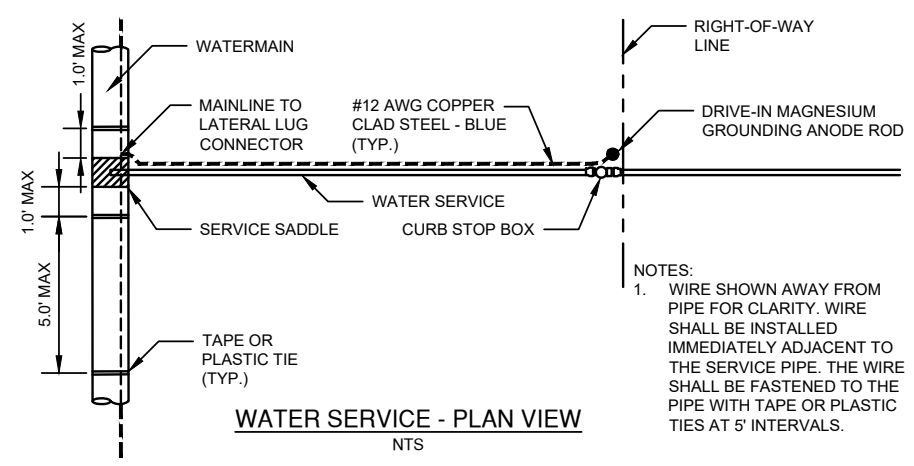
EROSION CONTROL DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

PROJECT NUMBER	1188-081
SHEET NO.	P3
FIELDBOOK:	
SCALE: AS SHOWN	
DRAWN: ETE	
CHECKED: SSW, RAJ	
DATE: 05/13/2026	



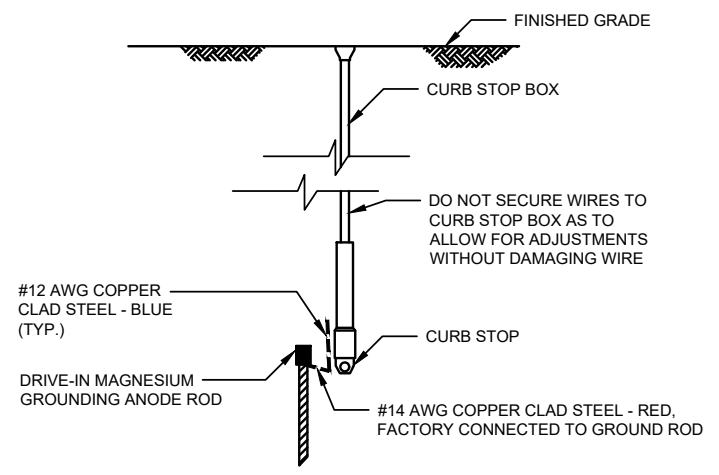
TYPICAL TRACER WIRE PLAN (WATER)
NTS

- NOTES:
1. WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE BOTTOM SIDE OF THE PIPE BELOW THE SPRING LINE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS.
 2. PROVIDE GRADE LEVEL (IN GROUND) TRACE WIRE ACCESS BOX AND DRIVE-IN MAGNESIUM GROUNDING ANODE AT EACH HYDRANT OR AT DISTANCES OF ≤ 500 FT. FOR HYDRANT SPACING OVER 500', INSTALL ACCESS BOXES AS DIRECTED BY THE ENGINEER AT THE EDGE OF THE RIGHT OF WAY AND MARK WITH A MINIMUM 48" MARKER POST COLOR CODED FOR THE UTILITY BEING MARKED.

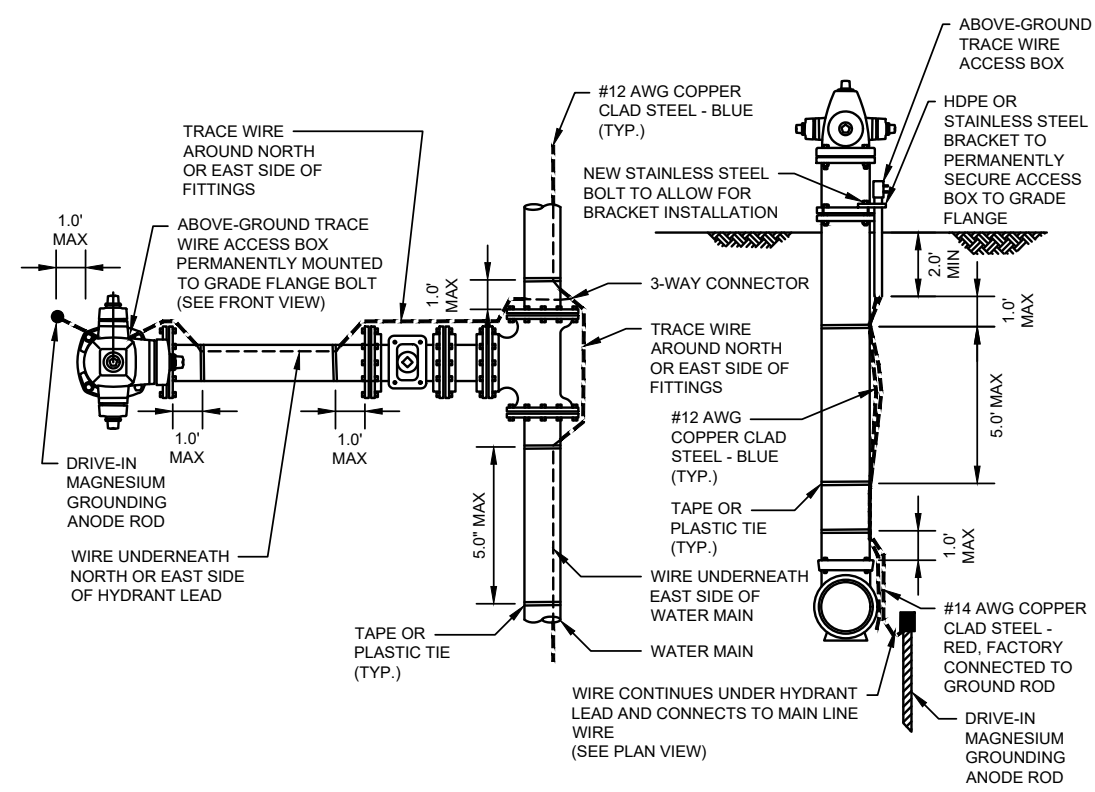


WATER SERVICE - PLAN VIEW
NTS

- NOTES:
1. WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED IMMEDIATELY ADJACENT TO THE SERVICE PIPE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS.



WATER SERVICE - SECTION VIEW
NTS



HYDRANT - PLAN VIEW
NTS

HYDRANT - SECTION VIEW
NTS

REVISION DATE	REMARKS

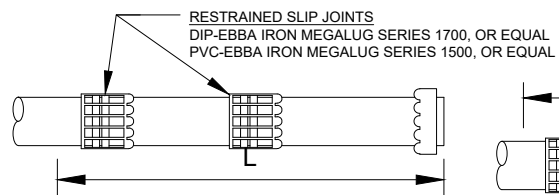
DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

PIPELINE CONTRACTOR - TRACER WIRE DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:	PROJECT NUMBER
SCALE: AS SHOWN	1188-081
DRAWN: ETE	SHEET NO.
CHECKED: SSW, RAJ	P4
DATE: 05/13/2026	

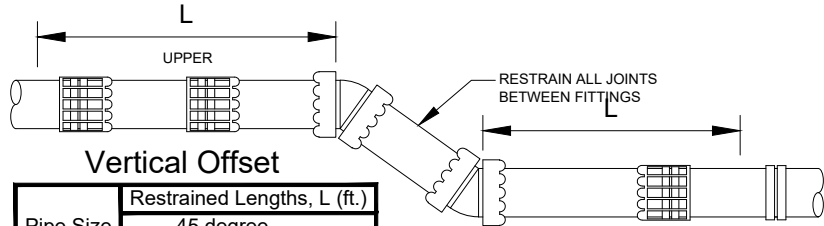
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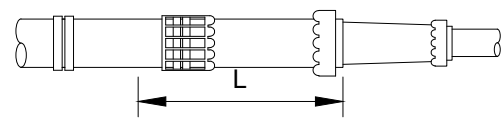
Dead End

Pipe Size	Restrained Lengths, L (ft.)	
	PVC	DIP
4	23	29
6	33	41
8	43	53
10	52	64
12	62	76



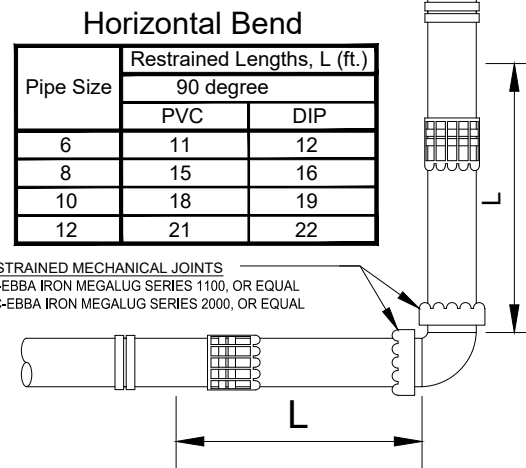
Vertical Offset

Pipe Size	Restrained Lengths, L (ft.)	
	45 degree	DIP
4	10	12
6	14	17
8	18	22
10	22	27
12	26	32



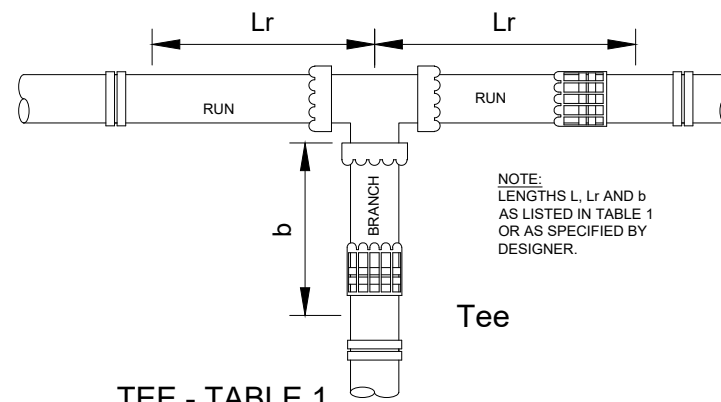
Reducer

Pipe Size	Restrained Lengths, L (ft.)		
Large	Small	PVC	DIP
6	4	17	21
8	4	31	38
8	6	18	23
10	6	32	40
10	8	18	22
12	8	33	41
12	10	18	23



Horizontal Bend

Pipe Size	Restrained Lengths, L (ft.)	
	90 degree	DIP
6	11	12
8	15	16
10	18	19
12	21	22



TEE - TABLE 1

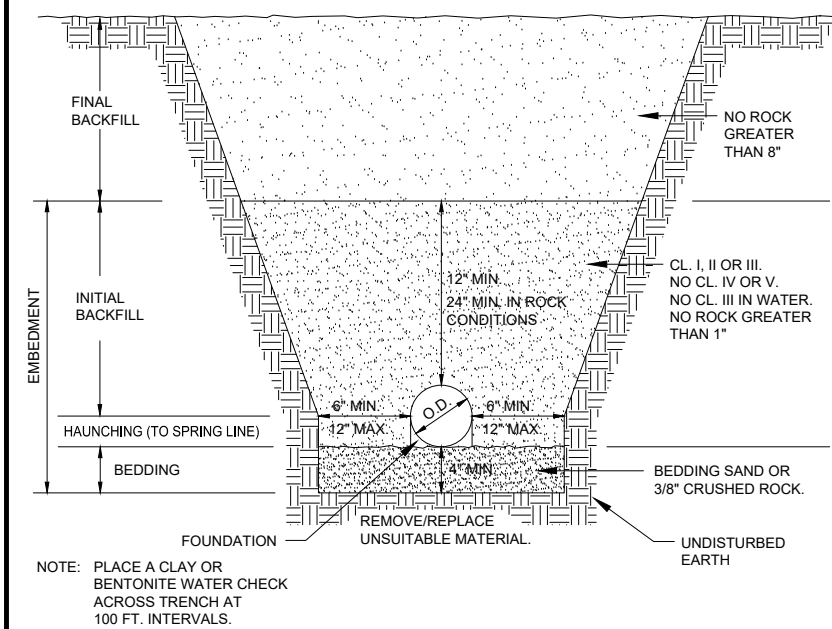
Pipe Size	Run	Branch	Restrained Lengths			
			PVC		DIP	
			Lr (ft.)	b (ft.)	Lr (ft.)	b (ft.)
4	4	4	4	1	4	1
6	4	4	4	1	4	1
6	6	6	5	3	5	4
8	4	4	4	1	4	1
8	6	4	4	2	4	2
8	8	8	6	7	6	9
10	4	4	4	1	4	1
10	6	4	4	1	4	1
10	8	5	6	6	5	7
10	10	7	10	7	12	12
12	6	4	4	1	4	1
12	8	5	5	1	5	1
12	10	7	7	1	7	2
12	12	9	9	7	9	9

- NOTES ABOUT TABLES:**
 THESE TABLES ARE BASED UPON PRODUCT SOFTWARE DEVELOPED BY EBBA IRON, INC. AND ARE CALCULATED BASED ON THE FOLLOWING ASSUMPTIONS:
 1. THE SOIL TYPES ARE SILTY LOAM (ML) OR BETTER. INORGANIC SILTS, FINE SANDS, CLAYS (NATIVE SOILS).
 2. SAFETY FACTOR, 1.5:1
 3. TRENCH TYPE 4.
 4. DEPTH OF BURY, 7 FEET OF COVER.
 5. INTERNAL PRESSURE, 150 PSI TEST PRESSURE.

FOR OTHER PIPE SIZES OR CONDITIONS, CONTACT THE ENGINEER FOR RESTRAINED LENGTHS REQUIRED.

- CONSTRUCTION NOTES:**
 1. IF LESS THAN FULL LENGTH PIPE ADJACENT TO FITTING, RESTRAIN ALL JOINTS.
 2. ALL FITTINGS SHALL BE RODDED OR CONNECTED TO THE PIPE WITH AN APPROVED JOINT RESTRAINT. RODS SHALL BE STAINLESS STEEL AND A MINIMUM OF 3/4" IN DIAMETER.
 3. ALL JOINT RESTRAINTS, DIP PIPE & FITTINGS SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE.

TABLE 1 Minimum Restrained Lengths For Fittings (L)
NO SCALE



STANDARD PIPE BEDDING DETAIL
NO SCALE

SOIL CLASSIFICATION CHART

COARSE-GRAINED SOILS			
		Gravels	
GW	Well-graded gravel	More than 50% of coarse fraction retained on #4 sieve	Clean gravels < 5% fines
GP	Poorly graded gravel		Gravel with fines > 12% fines
GM	Silty gravel		
GC	Clayey gravel		
SANDS			
SW	Well-graded sand	50% or more of coarse fraction passes #4 sieve	Clean sands < 5% fines
SP	Poorly graded sand		Sand with fines > 12% fines
SM	Silty sand		
SC	Clayey sand		
FINE-GRAINED SOILS			
		Silts and Clays	
CL	Lean clay	Liquid limit < 50	Inorganic
ML	Silt		Organic
OL	Organic clay/silt		
CH	Fat clay	Liquid limit > 50	Inorganic
MH	Elastic silt		Organic
OH	Organic clay/silt		
PT	Peat		

Soil Classes

Soil Class	SW, SP, GW, GP	GM, GC, SM, SC	CL, ML	CH, CL, CH, PT	Class
Crushed rock					Class I
Clean coarse grained			<12% passing #200		Class II
Coarse grained with fines			>12% passing #200		Class III
Silty Clay			>30% retained #200		Class III
Fine grained			<30% retained #200		Class IV
					Class V

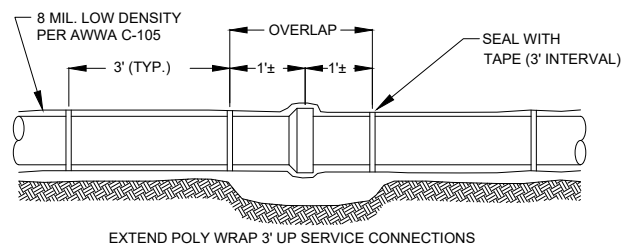
Use of Soil Classes for Foundation, Embedment and Backfill

Foundation	Embedment	Backfill
Foundation	4" minimum in rock excavation	
Foundation - no water	Class I, II or III or subcut and use Class I or II	
Foundation - with water	Class I or II or subcut and use Class I or II	
Bedding	4" minimum Bedding Sand (3.24.2) or 3/8" Crushed Rock (3.24.1)	
Embedment - no water	Class I, II or III or replace with Class I, II or III	
Embedment - with water	Class I or II or replace with Class I or II	
Foundation and embedment	No rock > 1", No Class IV or V	
Final Backfill	No rock > 8"	

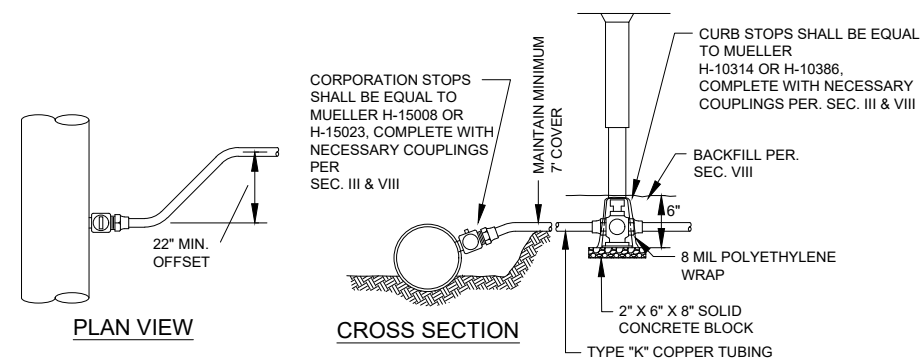
Compaction for Foundation, Embedment and Backfill

Foundation	Embedment	Backfill
Foundation	90% Modified Proctor	
Bedding	90% Modified Proctor	
Haunching	90% Modified Proctor	
Initial Backfill	90% Modified Proctor	
Final Backfill	90% - 95% Modified Proctor	

SOIL CLASSIFICATION CHARTS

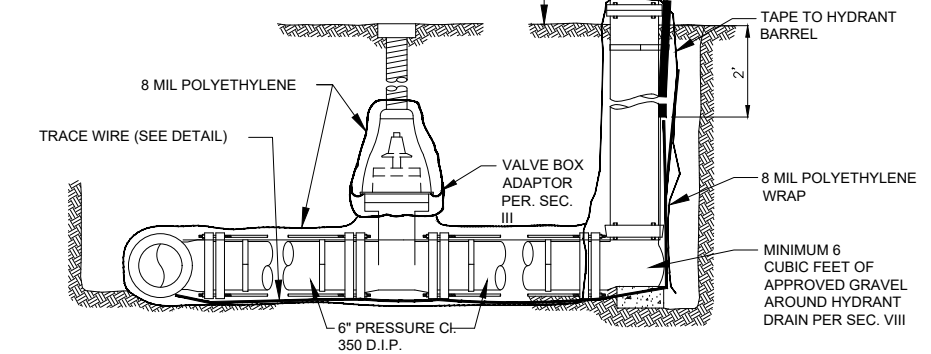


POLYETHYLENE PIPE WRAP FOR DIP
NO SCALE



COPPER WATER SERVICE CONNECTION
NO SCALE

TABLE 1 Minimum Restrained Lengths For Fittings (L)
NO SCALE



HYDRANT TO WATERMAIN CONNECTION W/TRACER WIRE
NO SCALE

REVISION DATE	REMARKS



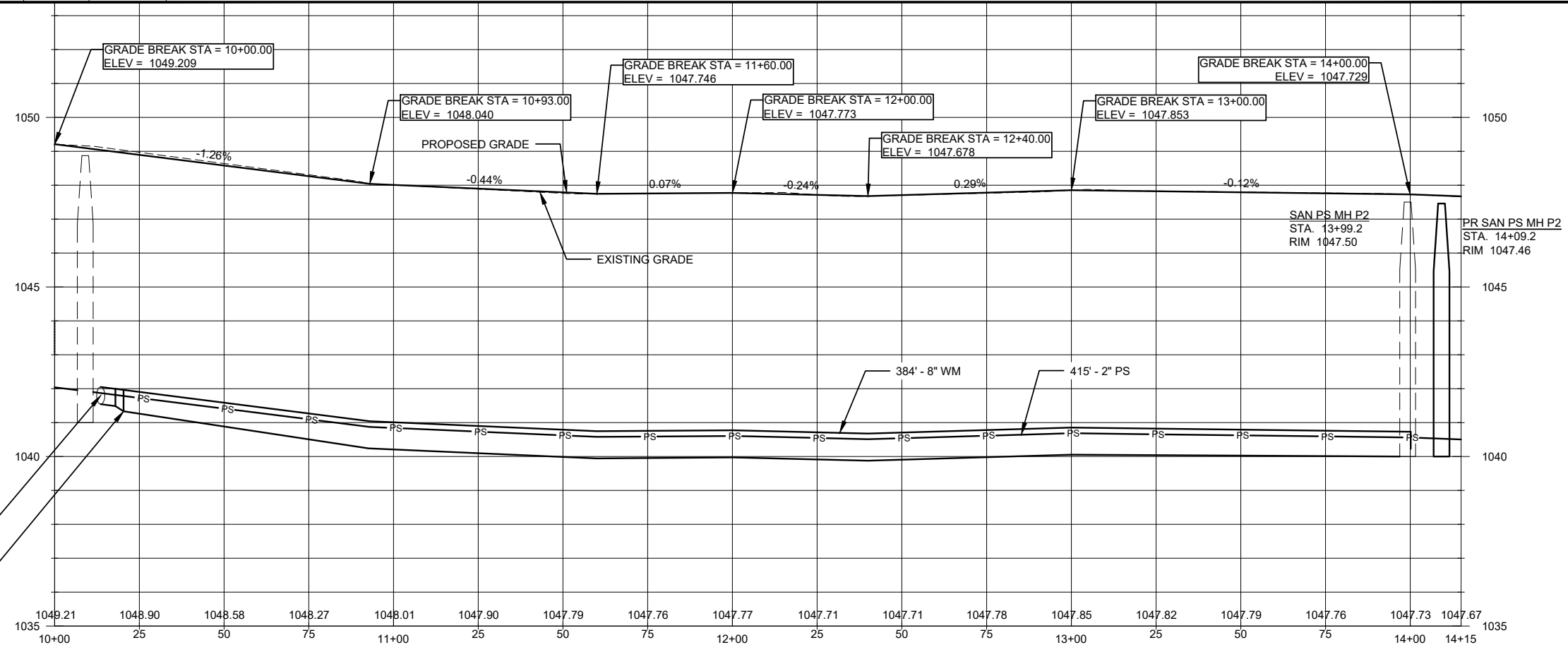
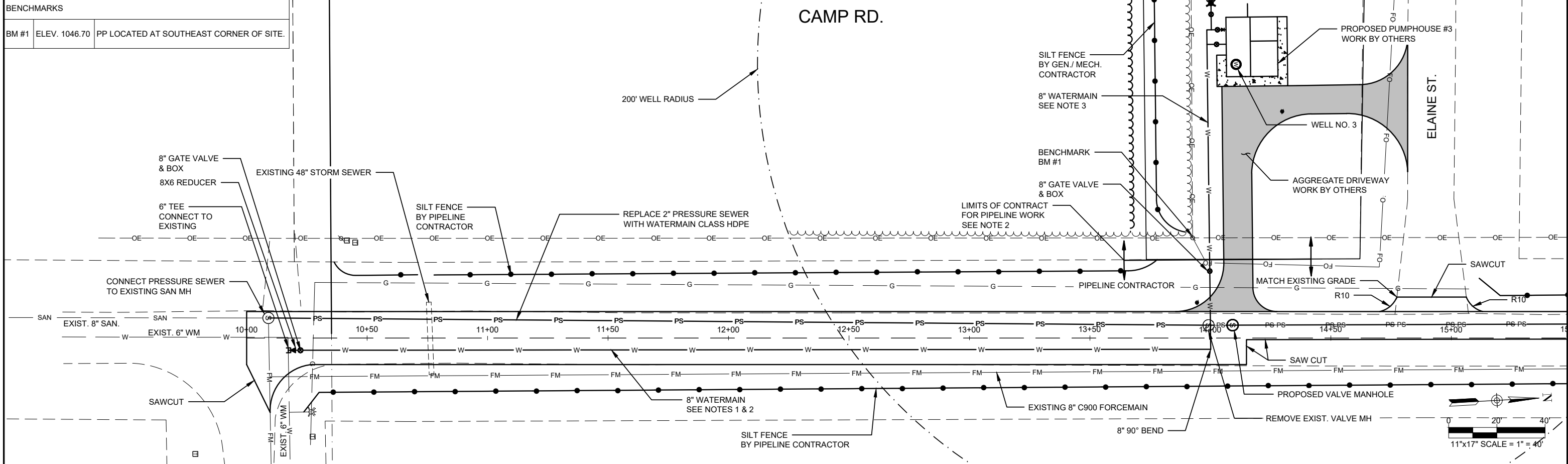
DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

PIPELINE CONTRACTOR - WATERMAIN DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

PROJECT NUMBER	SHEET NO.
1188-081	P5

FIELDBOOK: AS SHOWN
 DRAWN: ETE
 CHECKED: SSW, RAJ
 DATE: 05/13/2026

BENCHMARKS		
BM #1	ELEV. 1046.70	PP LOCATED AT SOUTHEAST CORNER OF SITE.



- NOTES:
- MINIMUM 7'-0" DEPTH OF BURY FOR WATERMAIN & PRESSURE SEWER.
 - WHEN A PIPELINE CONNECTION IS REQUIRED BETWEEN TWO CONTRACTORS, THE CONTRACTOR INSTALLING THE PIPELINE LAST SHALL MAKE AND TEST THE FINAL CONNECTION EXCEPT AS NOTED OTHERWISE. THE FIRST CONTRACTOR SHALL PROVIDE A TEMPORARY CAP OR PLUG.
 - WORK BY PUMPHOUSE #3 GENERAL/ MECHANICAL CONTRACTOR.

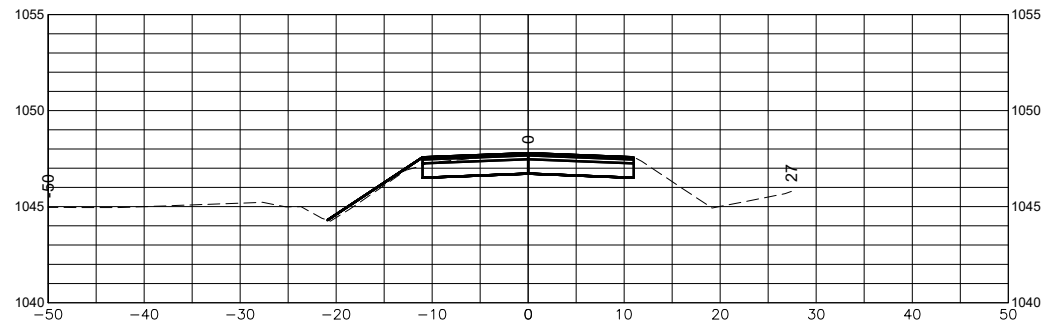
REVISION DATE	REMARKS

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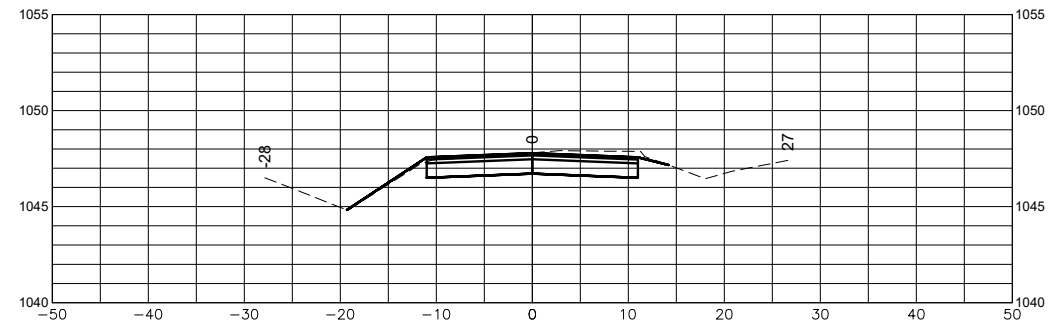
CAMP ROAD PLAN & PROFILE - 1
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

PROJECT NUMBER	1188-081
SHEET NO.	P100
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DRAWN: ETE	
CHECKED: SSW, RAJ	
DATE: 05/13/2026	

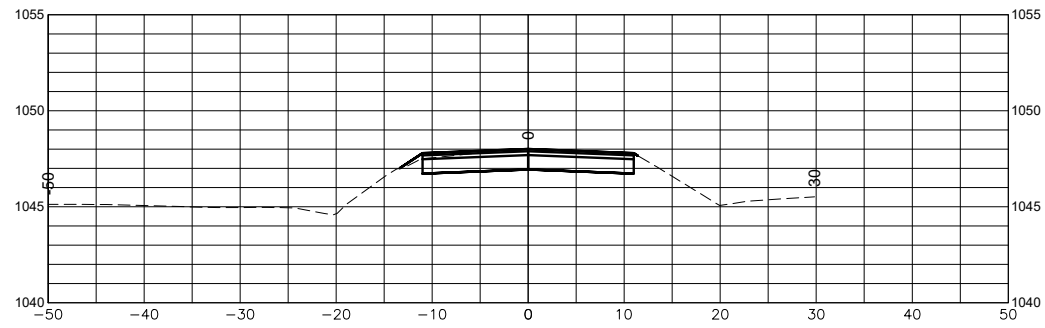
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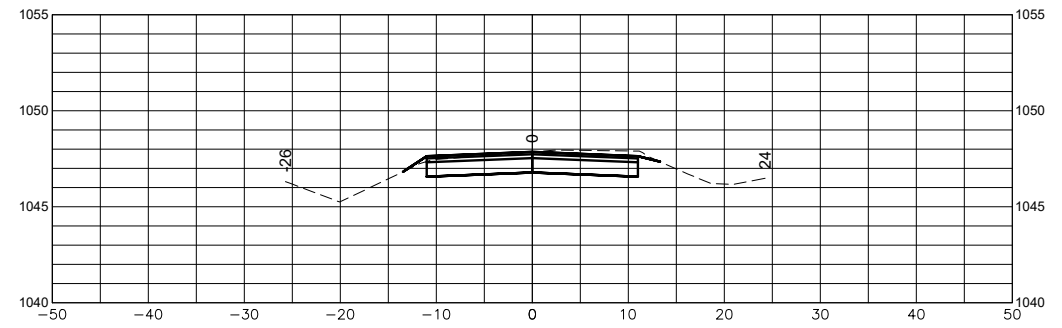
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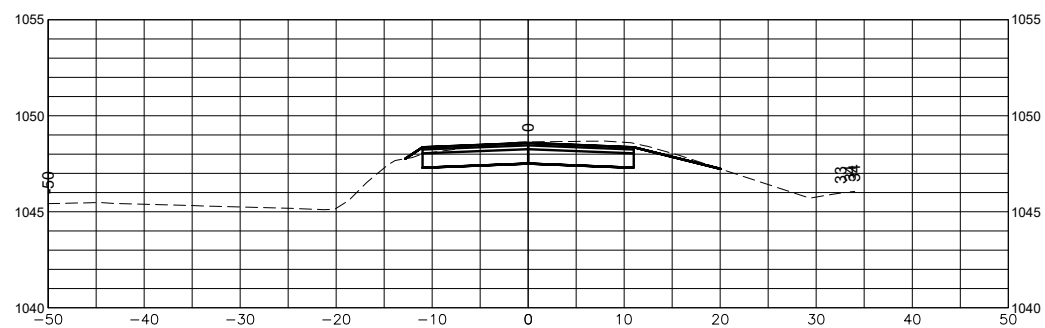
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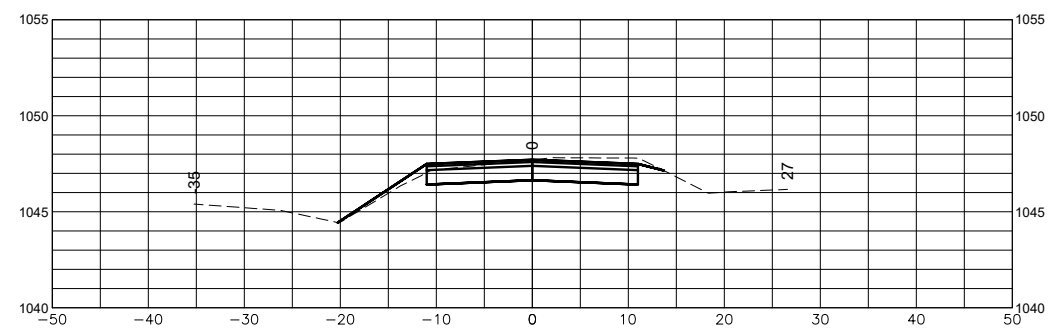
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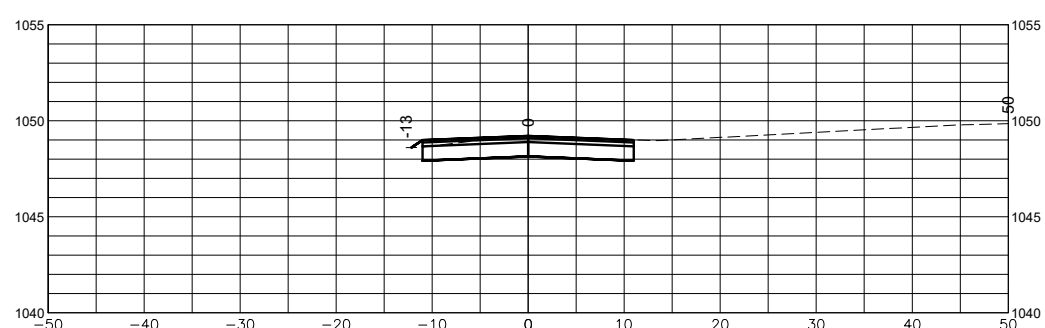
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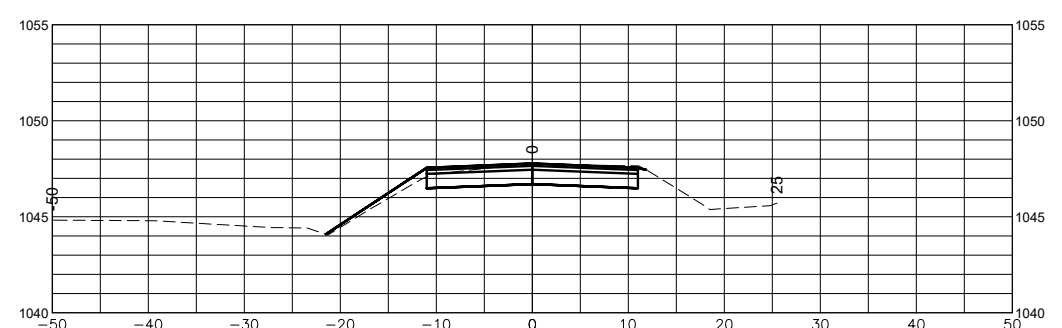
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12+50



10+00



12+00

REVISION DATE	REMARKS



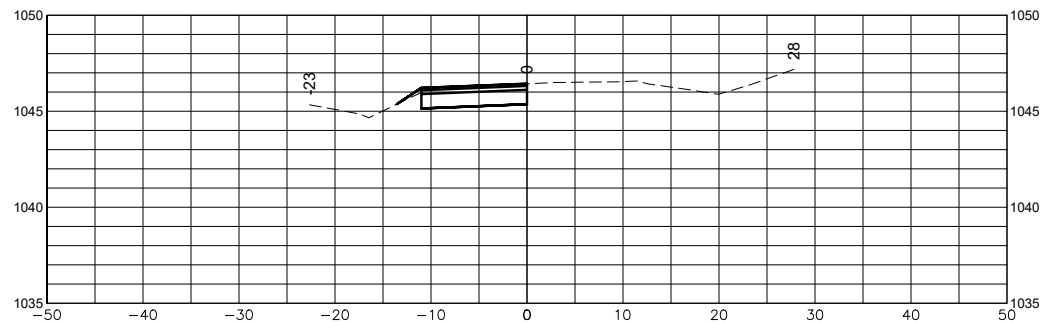
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CAMP RD. - CROSS SECTION - 1
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

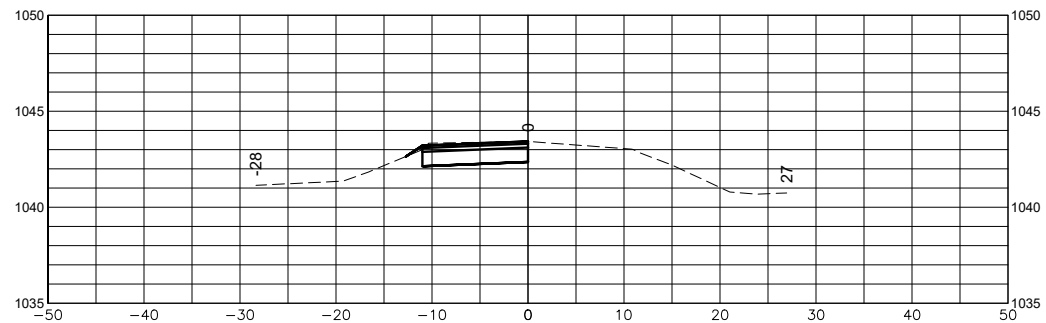
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DATE: 05/13/2026

PROJECT NUMBER
1188-081
SHEET NO.
P200

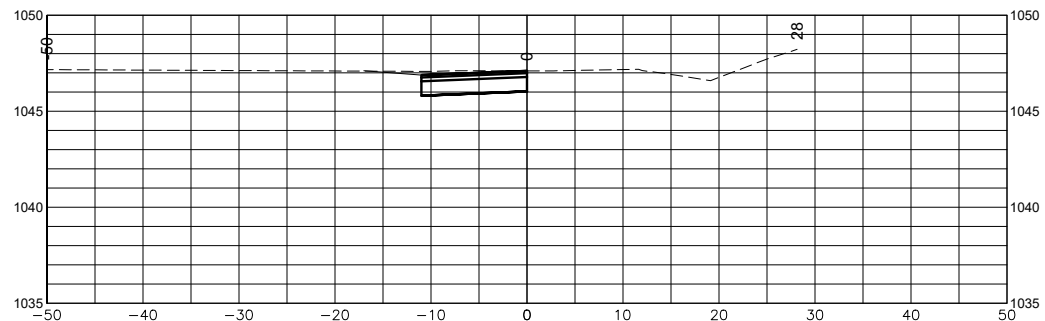
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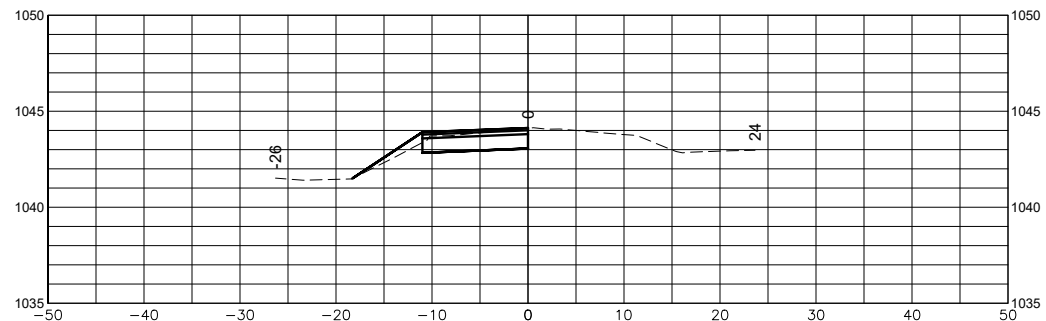
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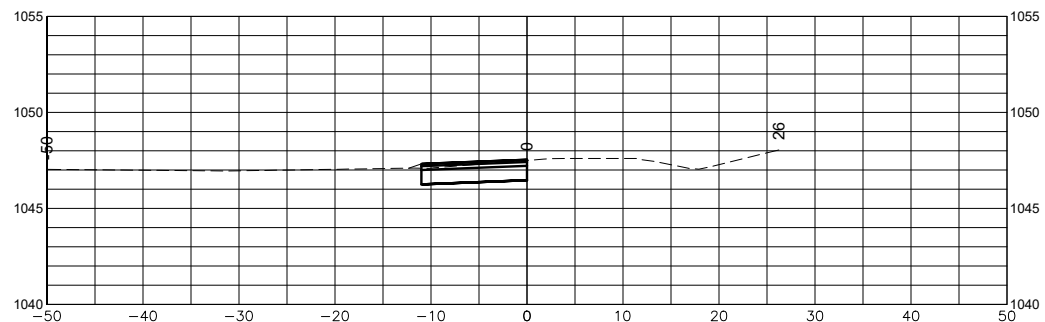
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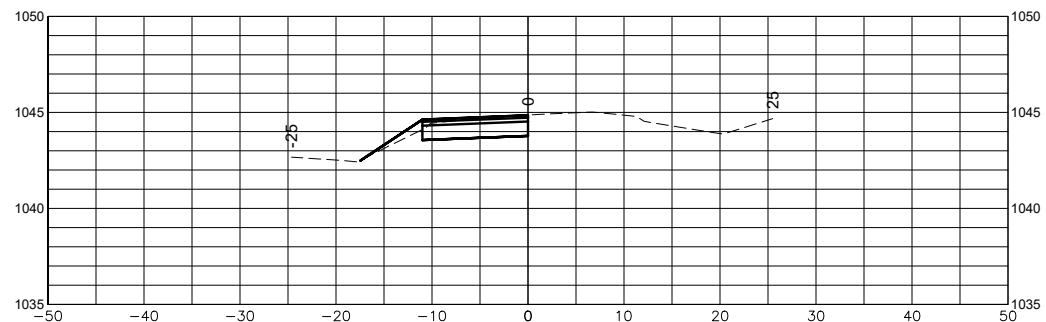
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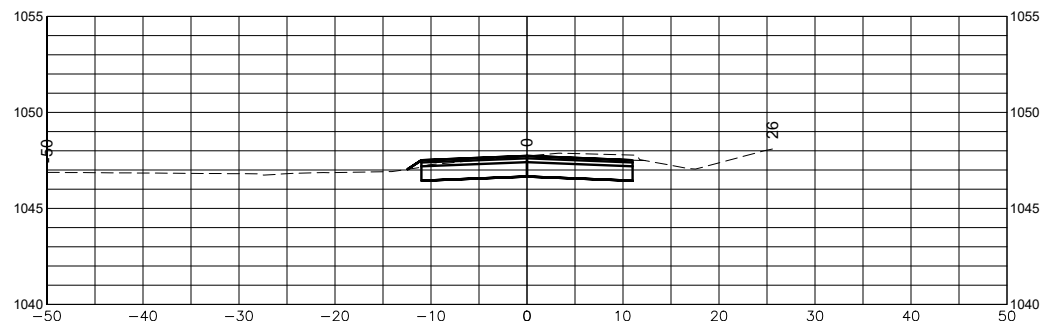
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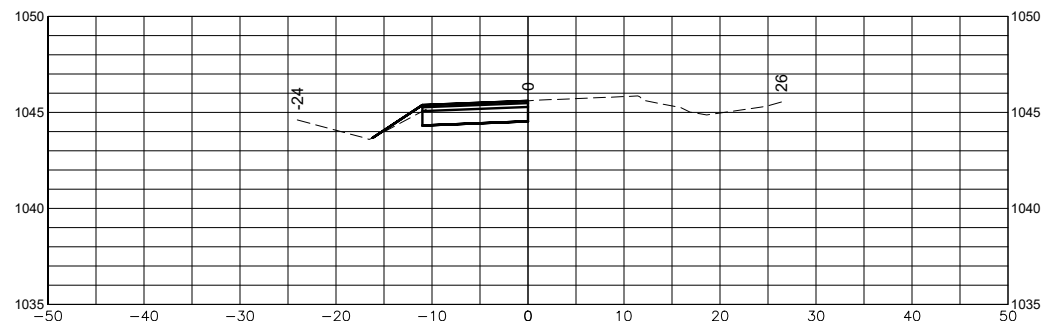
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14+00



16+00

REVISION DATE	REMARKS



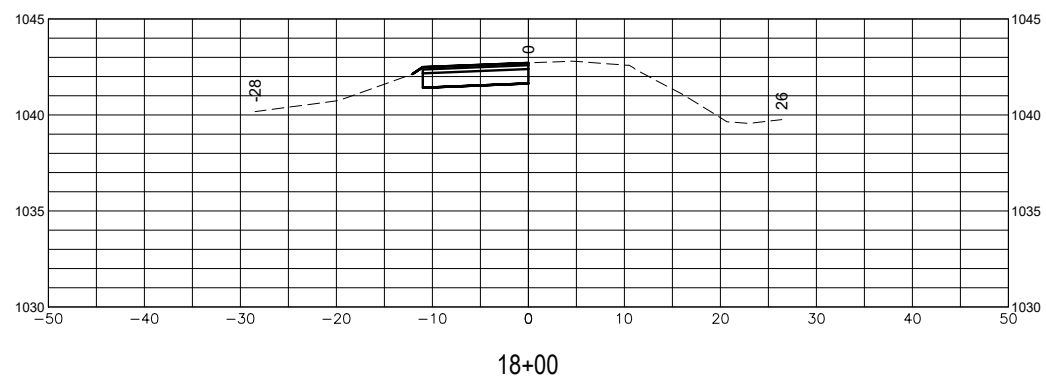
DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

CAMP RD. - CROSS SECTION - 2
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

FIELDBOOK:
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PROJECT NUMBER
1188-081
SHEET NO.
P201

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REVISION DATE	REMARKS



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CROSS SECTION - 3
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

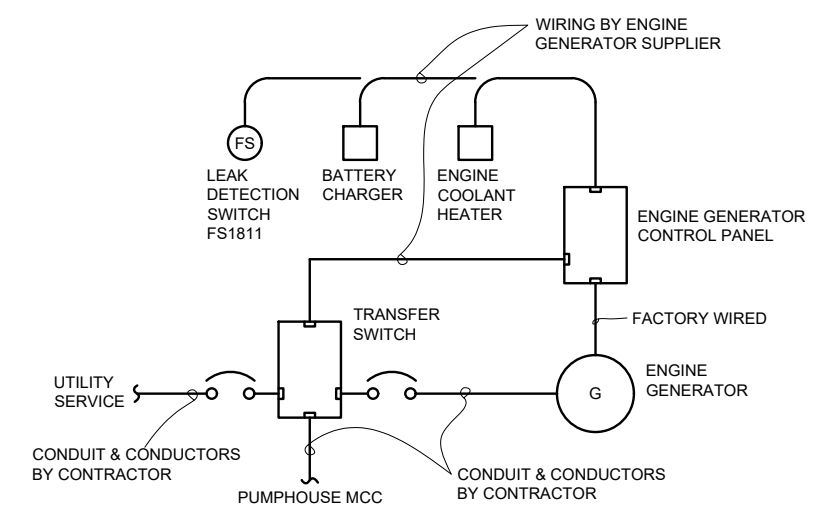
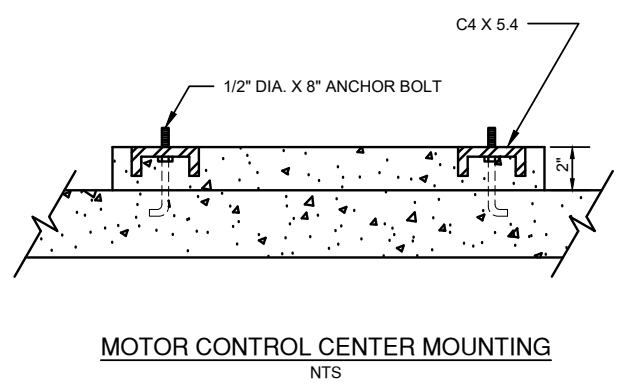
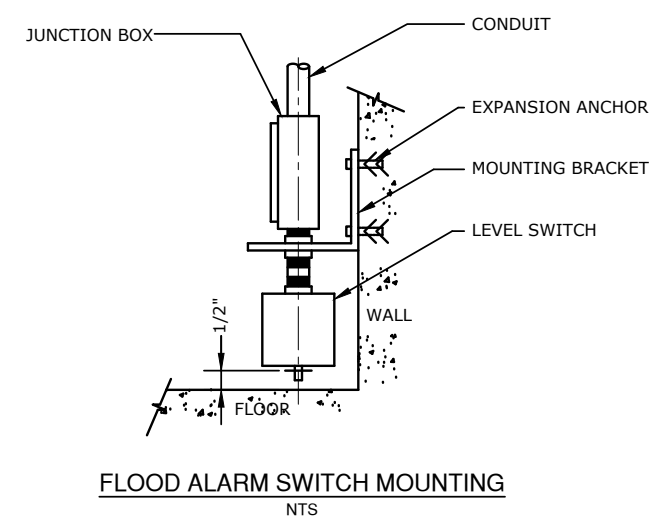
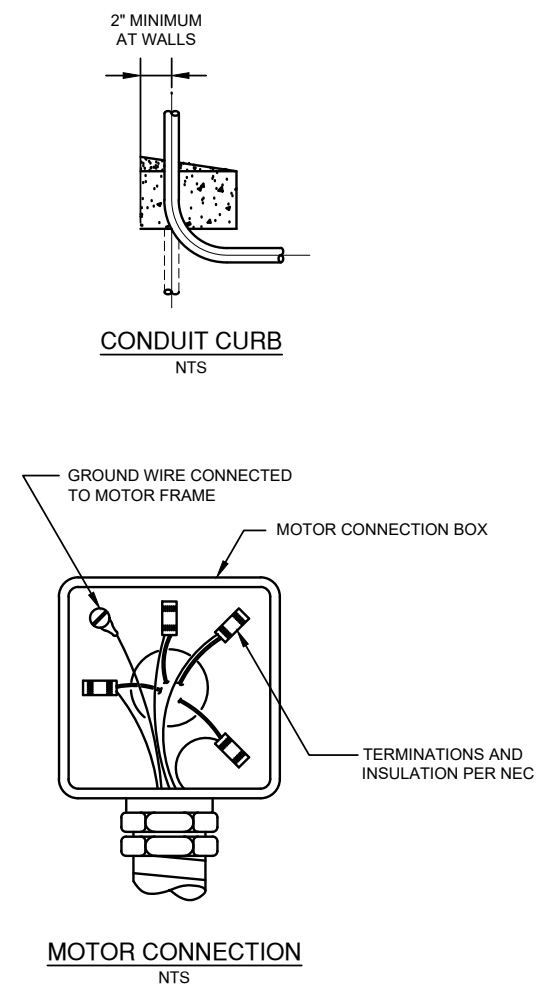
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PROJECT NUMBER
1188-081
SHEET NO.
P202

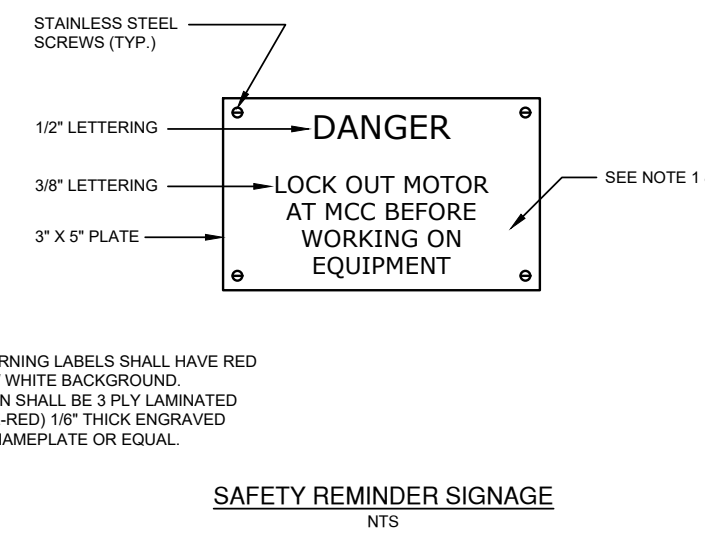
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ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	MOTOR
	DISCONNECT
	SWITCH
	OUTLET
	SPECIAL PURPOSE OUTLET
	LIGHT - LED WRAP AROUND 4' LIGHT FIXTURE
	LIGHT - LED WRAP AROUND 8' LIGHT FIXTURE
	LIGHT - WALL MOUNTED LIGHT FIXTURE
	LIGHT, LETTER IN SYMBOL DESIGNATES FIXTURE TYPE
	ANTENNA
	PLUG CONNECTION
	PANEL
	JUNCTION BOX
	GROUND
	EXPOSED CONDUIT
	CONCEALED CONDUIT, FLOOR OR WALL
	CONCEALED CONDUIT, CEILING
	TEMPERATURE SWITCH
	UNDERGROUND ELECTRIC
	EXIT LIGHT
	EMERGENCY LIGHT
	PHOTO-ELECTRIC (EYE) SENSOR
	OFF/NORM TEST, DOOR SWITCH
	FLOAT SWITCH, LIM IT SWITCH, FLOW SWITCH, SOLENOID VALVE, PRESSURE SWITCH, DEVICE
	FLOAT SWICTH
	PRESSURE SWITCH
	FLOW SWICTH

INSTRUMENTATION ABBREVIATIONS & SYMBOLS	
	INSTRUMENT
	FIELD MOUNTED INSTRUMENT
	ITEM IDENTIFICATION FACE MOUNTED PANEL INSTRUMENT CONTROL BOARD SYMBOL
	ITEM IDENTIFICATION INTERIOR MOUNTED PANEL INSTRUMENT CONTROL BOARD SYMBOL
	PROCESS FLOW LINE
	MILLIAMPERE SIGNAL
	ULTRASONIC SIGNAL
	120V AC SUPPLY
	FLUME
	FLOW INDICATOR TRANSMITTER
	FLOW TOTALIZER



- NOTES:
- ENGINE GENERATOR SUPPLIER SHALL PROVIDE TRANSFER SWITCH AND ENCLOSED CIRCUIT BREAKER.
 - CONTRACTOR SHALL PROVIDE THE POWER WIRING AND CONDUIT FROM THE TRANSFER SWITCH TO THE ENGINE GENERATOR.
 - CONTRACTOR SHALL PROVIDE A 3/4" AND 1" CONDUIT FROM THE TRANSFER SWITCH AND THE ENGINE CONTROL PANEL AND A 3/4" CONDUIT FROM THE MCC TO THE BATTERY CHARGER, THE ENGINE COOLANT HEATER, AND A 3/4" CONDUIT FROM THE ENGINE GENERATOR FUEL TANK TO THE BUILDING EXTERIOR ADJACENT TO THE DIESEL FUEL FILL BOX FRO THE HIGH LEVEL ALARM. THE POWER AND CONTROL WIRING FOR THESE DEVICES SHALL BE PROVIDED BY ENGINE GENERATOR SUPPLIER.



- NOTES:
- SAFETY/WARNING LABELS SHALL HAVE RED LETTERS W/ WHITE BACKGROUND.
 - SAFETY SIGN SHALL BE 3 PLY LAMINATED (RED-WHITE-RED) 1/8" THICK ENGRAVED PHENOLIC NAMEPLATE OR EQUAL.

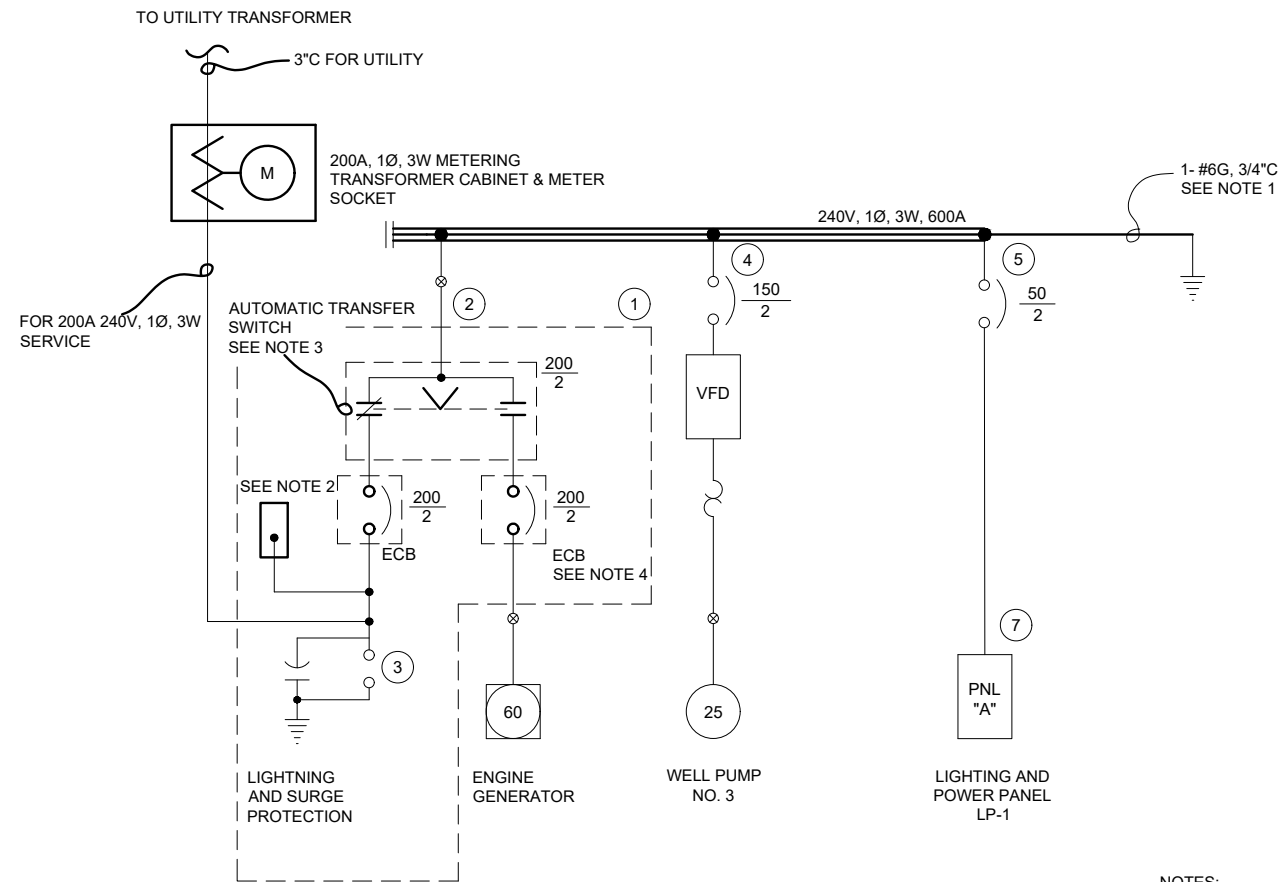
REVISION DATE	REMARKS



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ELECTRICAL SYMBOLS & ABBREVIATIONS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

PROJECT NUMBER	1188-081
SHEET NO.	E1
FIELDBOOK:	
SCALE: AS SHOWN	
DRAWN: ETE	
CHECKED: SSW, RAJ	
DATE: 05/13/2026	

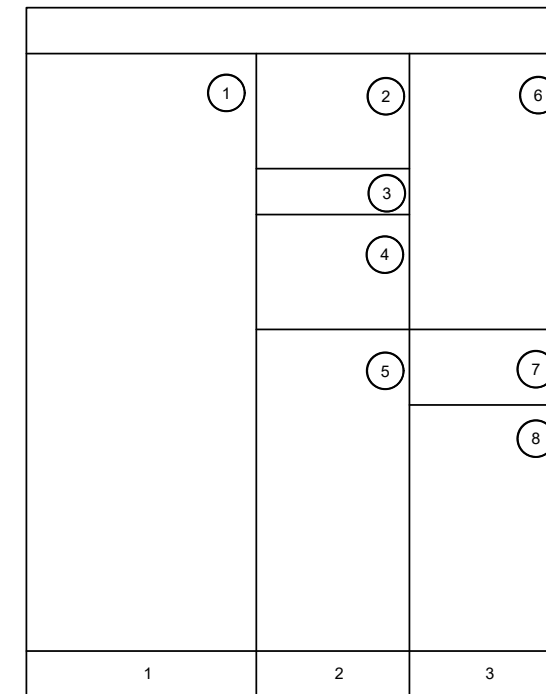


MCC - 3

NOTES:

- GROUND TO WELL CASING, WATER MAIN, AND REINFORCING IN FOOTING.
- BOND NEUTRAL AT THE SERVICE ENTRANCE.
- AUTOMATIC TRANSFER SWITCH TO BE PROVIDED BY ENGINE GENERATOR EQUIPMENT SUPPLIER.
- ENCLOSED CIRCUIT BREAKER PROVIDED BY ENGINE GENERATOR EQUIPMENT SUPPLIER.

ITEM	DESCRIPTION	NAMEPLATE
1.	MCC MAIN CB, ATS, CAPACITOR/ ARRESTOR MAIN LUGS	INCOMING POWER MAIN LUG CENTRAL
2.	30/3	
3.	VARIABLE FREQ. DRIVE	WELL #3 PUMP
4.	24 CKT PNL BOARD	LIGHTING & POWER PANEL LP-1
5.	BREAKER	LP-1 BREAKER



MOTOR CONTROL CENTER MCC - 3

Description	Brk Size	Ckt	Ckt	Brk Size	Description
Chemical Room Heater	20/2	1	2	20/1	Caustic Metering Pump
		3	4	20/1	Pump Room Lights
		5	6	20/1	Exterior Lights (2) - Photocell
Outlets (3) Chemical Room	20/1	7	8	20/1	Entrance Lights (2) - On Switch
	20/1	9	10	20/1	Emergency & Exit Light (1)
Outlets (4) Pump Room	25/1	11	12	20/2	Electrical Room Cabinet Heater
Pump Room Ventilation	20/1	13	14		
Magnetic Flowmeter	20/1	15	16	20/1	Outlets () Electrical Room
Chemical Room Lights & Ventilation	20/1	17	18	20/1	Chlorine Metering Pump
Electrical Room Lights & Ventilation	20/1	19	20	20/1	CTU
Pump Room Heater	20/1	21	22	15/1	Spare
Spare	15/1	23	24	20/1	Spare

REVISION DATE	REMARKS



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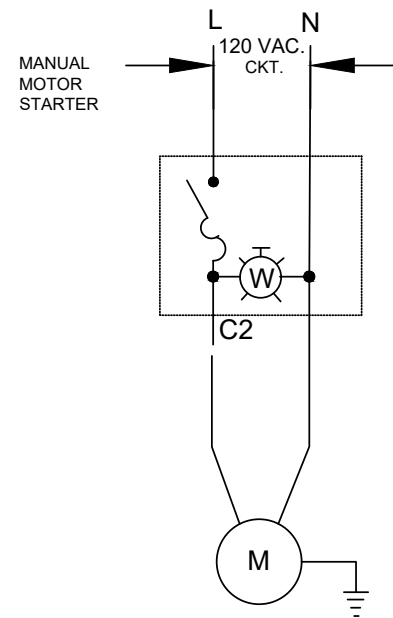
ONE LINE DIAGRAM & MCC DETAILS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

PROJECT NUMBER
1188-081

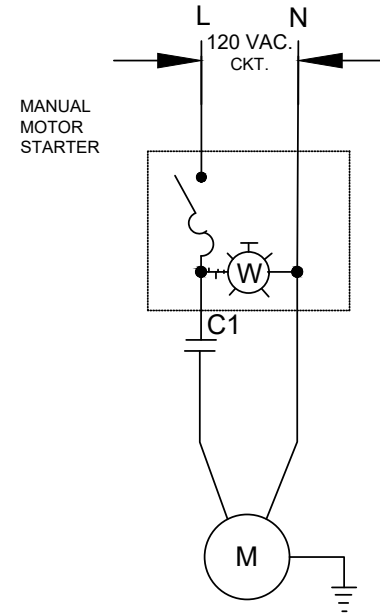
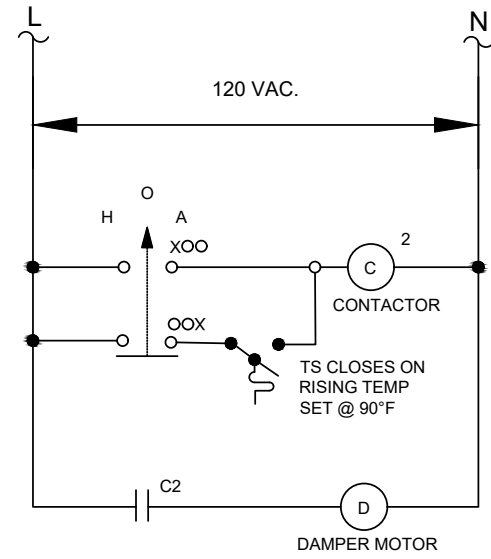
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E2

FIELDBOOK:
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DATE: 05/13/2026

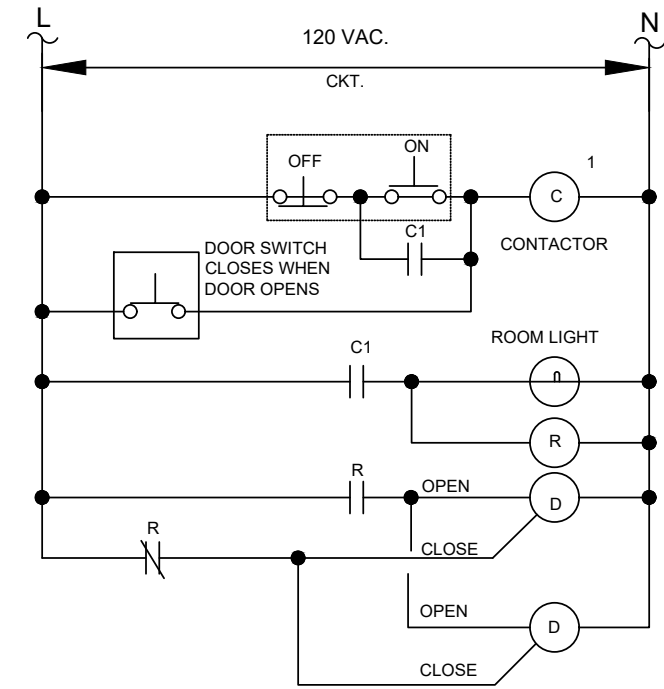
PROJECT NUMBER	1188-081
SHEET NO.	E2



PUMP ROOM VENTILATION
NTS



CHEMICAL ROOM LIGHT & VENTILATION
NTS



REVISION DATE	REMARKS

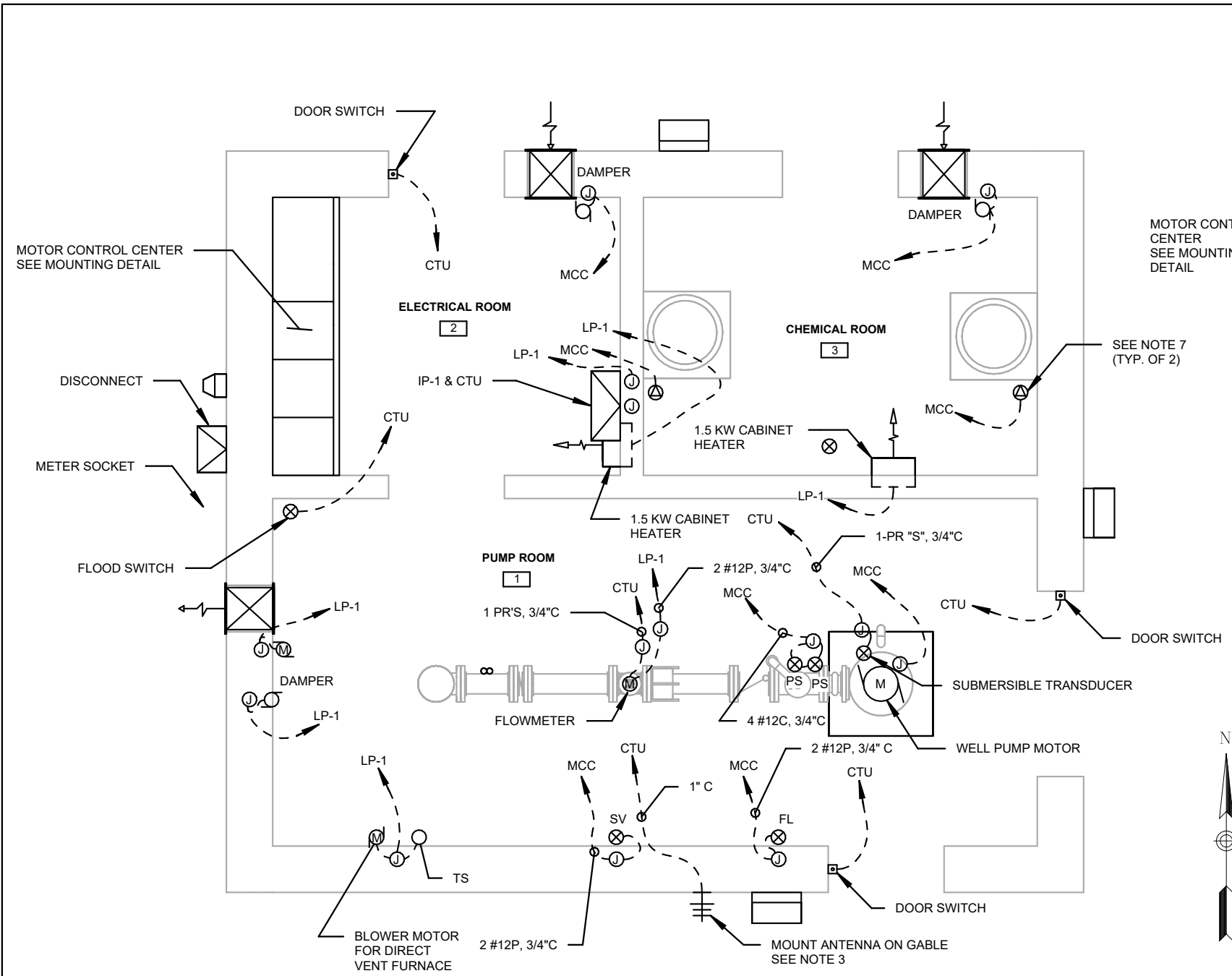


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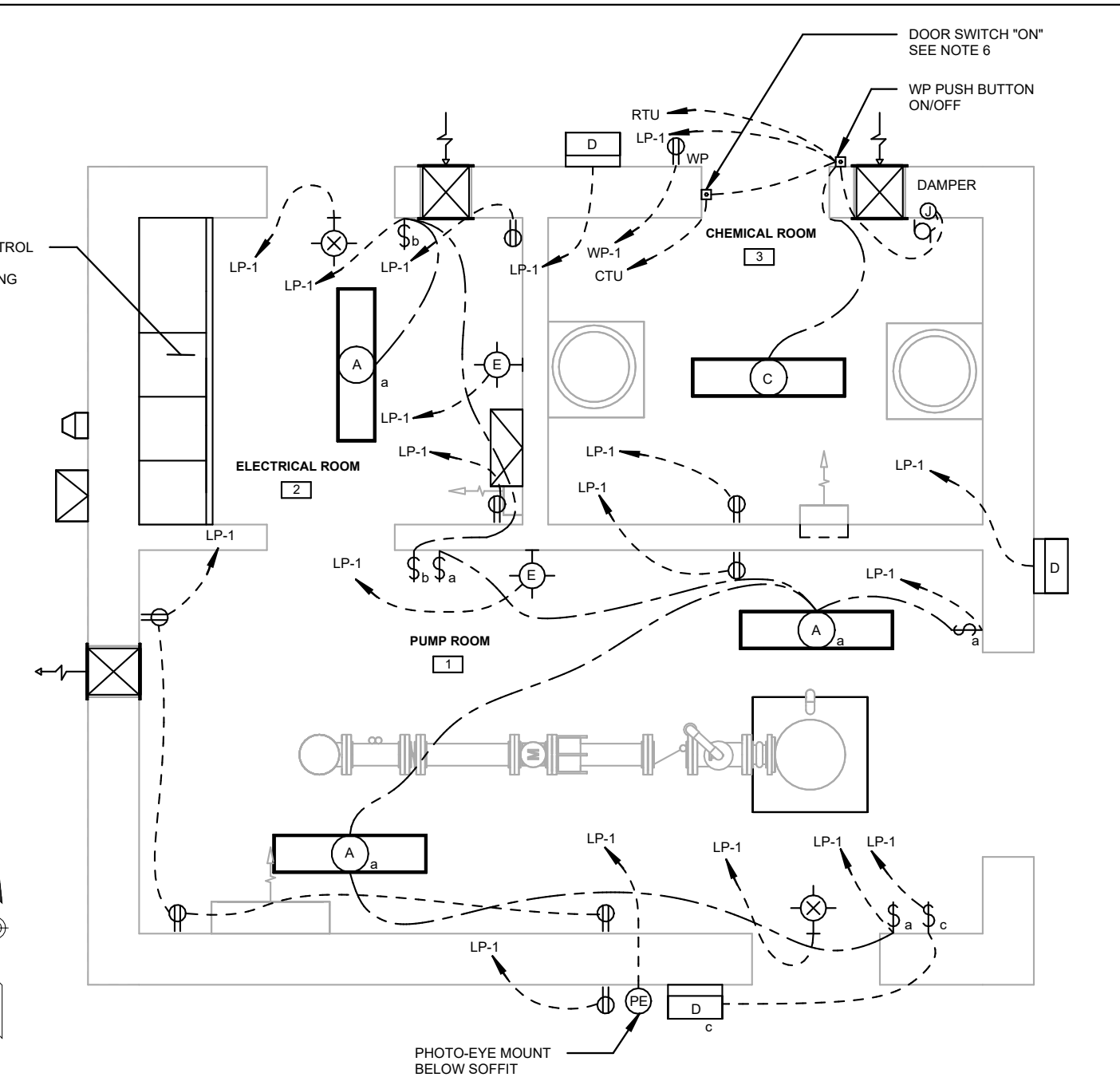
VENTILATION & CONTROL DIAGRAMS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

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DRAWN: ETE	SHEET NO.
CHECKED: SSW, RAJ	E3
DATE: 05/13/2026	

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POWER & CONTROL PLAN
1/4" = 1'-0"



LIGHTING & OUTLET PLAN
1/4" = 1'-0"

- NOTES:
1. UNDERGROUND UTILITY POWER CONTRACTOR TO PROVIDE CONDUIT AS REQUIRED BY XCEL ENERGY.
 2. POWER & CONTROL WIRING SHALL BE IN SEPARATE CONDUITS.
 3. PROVIDE 1" CONDUIT TO THE EXTERIOR OF BUILDING FOR RADIO ANTENNA CABLE.
 4. AUTOMATIC TRANSFER SWITCH TO BE FURNISHED BY ENGINE GENERATOR EQUIPMENT SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR.
 5. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER AND CONTROL WIRING FROM TRANSFER SWITCH TO THE GENERATOR, MCC, AND OTHER ELECTRICAL APPURTENANCES.
 6. DOOR SWITCH MOUNTED IN FRAME. WHEN DOOR OPENS, ROOM LIGHTS AND VENTILATION SHALL TURN ON AUTOMATICALLY, PROVIDE ON/OFF SWITCHES AS SHOWN.
 7. PROVIDE DUPLEX OUTLETS FOR CHEMICAL FEED PUMPS. OUTLETS SHALL ENERGIZE WHEN WELL PUMP NO. 3 IS REQUIRED TO RUN.

ELECTRIC HEATER SCHEDULE

LOCATION	VOLTAGE	MTG.	KW RATING	REMARKS
ELECTRICAL ROOM	208V, 1 PHASE	WALL	1.5	INTEGRAL THERMOSTAT
CHEMICAL ROOM	208V, 1 PHASE	WALL	1.5	INTEGRAL THERMOSTAT

REVISION DATE	REMARKS



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ELECTRICAL PLANS
PUMPHOUSE NO. 3 & CONNECTING WATERMAIN
VILLAGE OF FAIRCHILD, WISCONSIN

PROJECT NUMBER	1188-081
SHEET NO.	E101
FIELDBOOK:	
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DRAWN: ETE	
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DATE: 05/13/2026	