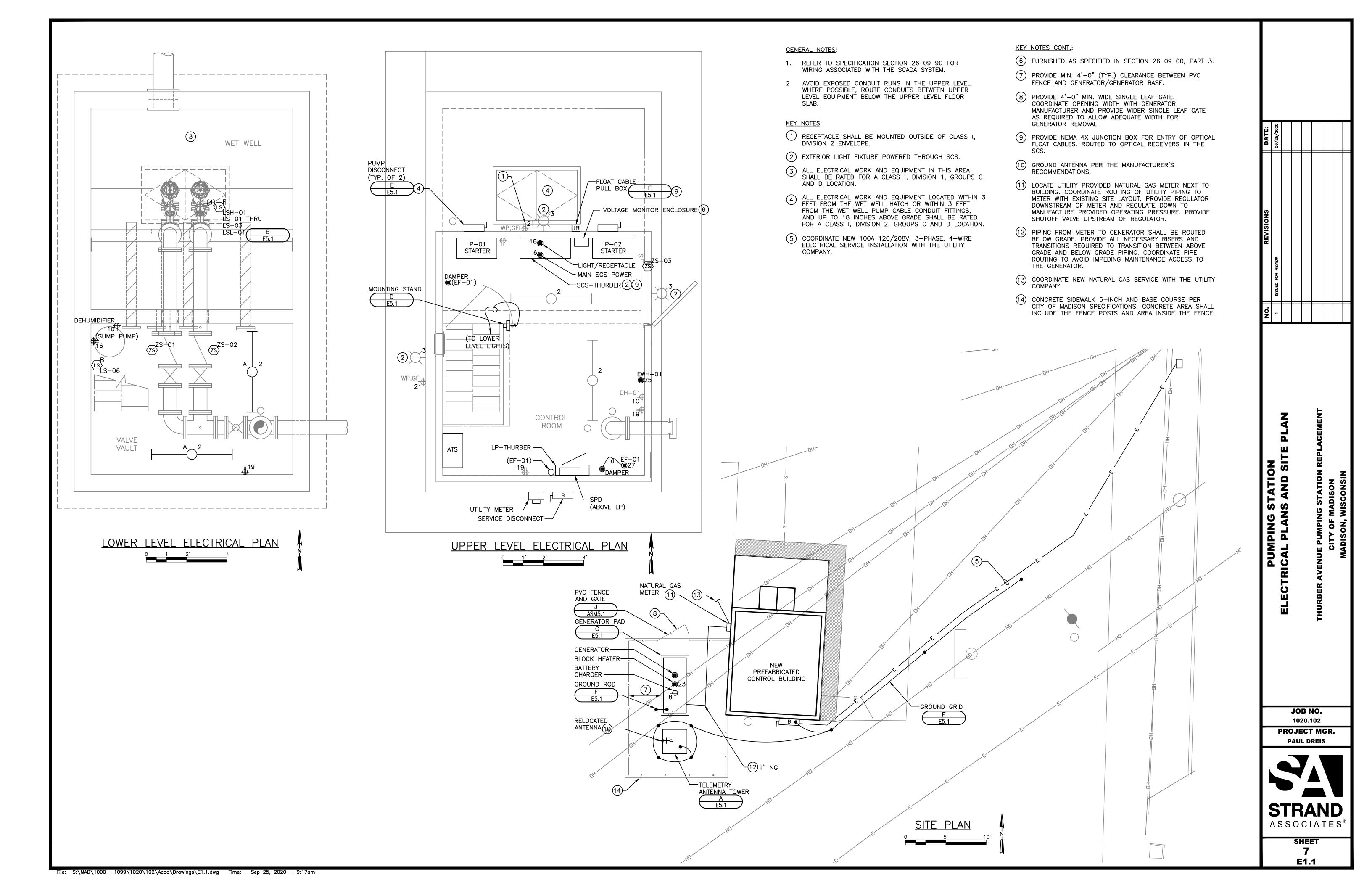


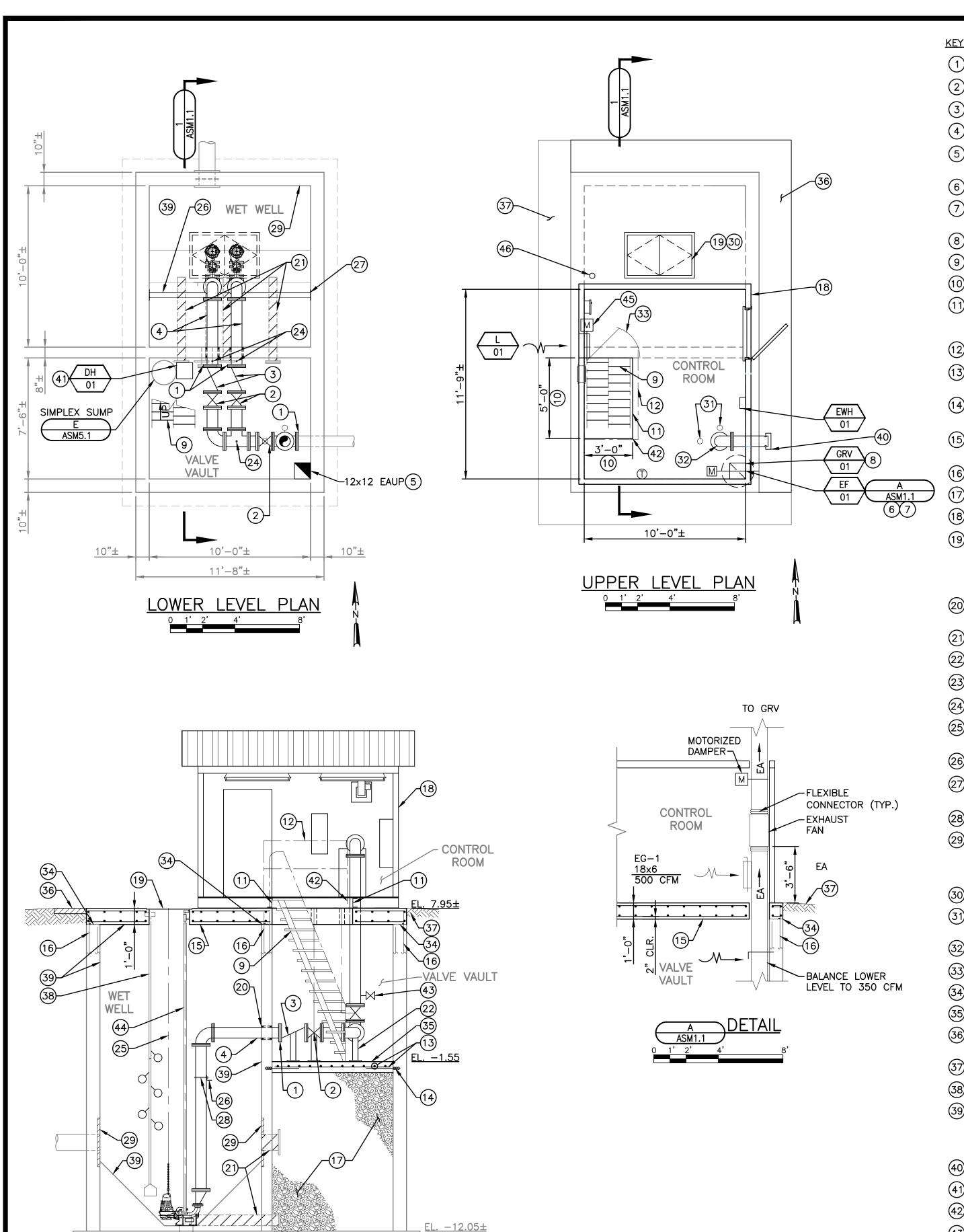
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City of Madison, WI - GIS/Mapping data

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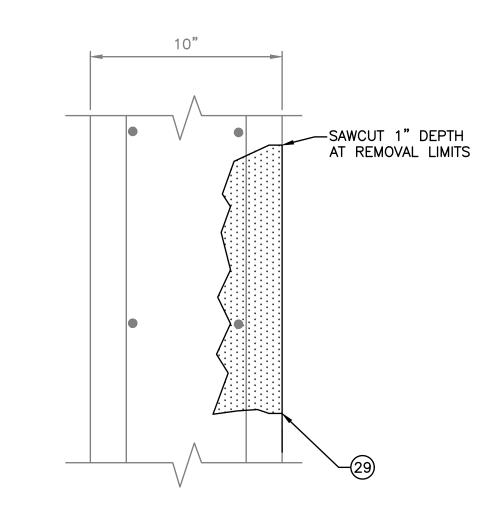


KEY NOTES:

- (1) MEGA FLANGE OR EQUAL.
- (2) 8" PLUG VALVE.
- (3) 8" CHECK VALVE.
- (4) FLANGE BY PLAIN END PIPE.
- (5) ROUTE DUCT DOWN TO 12" ABOVE FINISHED FLOOR IN VALVE VAULT. PROVIDE SCREENED INLET.
- (6) ROUTE 12x12 DUCT DOWN TO LOWER CHAMBER.
- (7) COORDINATE MOUNTING OF FAN TO AVOID INTERFERENCE WITH ELECTRICAL AND OTHER BUILDING COMPONENTS.
- (8) PROVIDE SLOPED ROOF CURB AS REQUIRED.
- (9) ALTERNATING TREAD STAIR.
- (10) COORDINATE STAIR OPENING DIMENSIONS WITH STAIR MANUFACTURER.
- (11) PROVIDE CLOSURE CHANNELS AROUND STAIR OPENING TO CLOSE OFF VOID BETWEEN EXISTING FLOOR SLAB AND NEW BUILDING FLOOR, (TYP. ALL SIDES). COORDINATE CHANNEL HEIGHT WITH CONTROL BUILDING SUPPLIER.
- 12 ALUMINUM RAILING WITH TOEBOARD ASM5.1
- 13 NEW 8" THICK CONCRETE FLOOR SLAB REINFORCED WITH #4@8" EACH WAY. CENTER REINFORCING IN SLAB.
- #4@8"x2'-0" LONG DRILLED ADHESIVE ANCHOR DOWELS AROUND PERIMETER OF NEW FLOOR SLAB. EMBED 4" INTO EXISTING WALL AND LAP WITH SLAB REINFORCING.
- 15) NEW 12-INCH ELEVATED FLOOR SLAB. REINFORCE WITH #6@12" EACH WAY EACH FACE, TOP AND BOTTOM.
- (16) INCORPORATE EXISTING VERTICAL WALL REINFORCING INTO NEW ELEVATED SLAB.
- (17) BACKFILL WITH COMPACTED CLEAR CRUSHED STONE.
- (18) PRE-FABRICATIED CONTROL BUILDING.
- (19) 4'-0"x2'-6" DOUBLE LEAF FLOOR DOOR WITH SAFETY GRATING CONFORMING TO ASTM C-478, REINFORCED FOR H-20 LOADING. EXACT DIMENSIONS AND POSITION OF PUMP ACCESS HOLE AND DOOR IN TOP SLAB SHALL BE AS RECOMMENDED BY THE PUMP MANUFACTURER TO ALLOW PROPER POSITIONING OF GUIDE RAILS AND UNRESTRICTED REMOVAL OF PUMPS.
- CORE NEW HOLE FOR NEW 8" PIPE. INSTALL LINKSEAL IN EXISTING WALL TYP. OF 2 LOCATIONS.
- (21) PLUG EXISTING PIPE WATER TIGHT WITH HYDRAULIC CEMENT.
- (22) PIPE SUPPORTS AS SPECIFIED, (TYP.).
- (23) ANCHOR BOLTS PER MANUFACTURER'S RECOMMENDATIONS.
- (24) PROVIDE 1/2" TAPS, BALL VALVES AND REMOVABLE PIPE END CAPS.
- 25 STAINLESS STEEL CABLE SHALL BE FASTENED TO THE WET WELL LID PER SPECIFICATIONS.
- (27) (26) 4"x4"x3/8" S.S. ANGLE WELDED TO AT EACH END.
- (27) WELD 8"x8"x1/4" S.S. PLATE TO 4"x4"x3/8" ANGLE AT EACH END. ANCHOR PLATE TO WALL W/2-1/2" S.S. EXP. BOLTS, 4" MIN. EMBED, SHIM AND GROUT AS REQUIRED.
- (28) 1/2" DIA. SS U-BOLTS.
- 29 WALL VERTICAL SURFACE REPAIR. REMOVE LOOSE AND DETERIORATED CONCRETE ON VERTICAL WALL SURFACES TO SOUND CONCRETE. REMOVE MINIMUM 3/4" BEHIND REINFORCING BARS. SALVAGE EXISTING REINFORCING STEEL. PATCH WITH REPAIR MORTAR. USE ALLOWANCE AS SPECIFIED. TYP. FOUR WALLS. SEE DETAIL
- (30) PROVIDE WARNING SIGN. SEE DETAIL
- 31) PROVIDE HOLES FOR VALVE STEMS. COORDINATE SIZE AND LOCATION WITH EQUIPMENT MANUFACTURER.
- (32) NEW HOLE FOR 8" PIPE. PROVIDE LINKSEAL FLUSH WITH TOP OF FLOOR.
- (33) SELF-CLOSING GATE (
- (34) ROUGHENED CONSTRUCTION JOINT WITH HYDROPHILIC WATERSTOP.
- (35) PROVIDE CURE-SEAL HARDENER ON NEW FLOOR SLAB.
- 36 NEW CONCRETE SIDEWALK 5-INCH AND BASE COURSE PER CITY OF MADISON SPECIFICATIONS.
- (37) RESTORE PER SPECIFICATIONS.
- (38) REMOVEABLE FLOAT SUPPORT (SS CABLE AND PVC COATED WEIGHT). SEE DETAIL
- (39) COAT WET WELL WALLS, CEILING, AND BASE WITH LINING SYSTEM PER SPECIFICATIONS AFTER CONCRETE SURFACE REPAIRS AND NEW TOP SLAB CONSTRUCTION HAVE BEEN COMPLETED. ALLOW ADEQUATE CURE TIME FOR CONCRETE SURFACE REPAIRS AND TOP SLAB PRIOR TO APPLICATION OF LINING SYSTEM.
- (40) PROVIDE 8" QUICK CONNECT WITH COVER.
- (41) DEHUMIDIFIER SHALL DRAIN TO OPEN GRATING ON SUMP.
- (42) MOUNT RAILING TO FACE OF CONCRETE SLAB (ASM5.1
- (43) PROVIDE 1/2 INCH TAP, PIPE, BALL VALVE, AND CAP.
- (44) 2" SS PIPE GUIDE BARS.
- (45) DAMPER SHALL NOT INTERFERE WITH GATE.
- 4" INVERTED "J" DUCTILE IRON VENT WITH INSECT SCREEN. VENT OPENING SHALL BE AT LEAST 12 INCHES ABOVE THE CONCRETE SLAB.

GENERAL NOTES:

- DRAWINGS OF PUMPING STATION PIPING, PUMPS AND COVERS ARE DETAILED USING FLYGT EQUIPMENT.
- STATION PIPING, FITTINGS, AND VALVES SHALL BE AWWA C151 DUCTILE IRON, SPECIAL THICKNESS CLASS 53, CONFORMING TO SPECIFICATIONS.
- CONTRACTOR INSTALLING PUMPS SHALL CHECK ALIGNMENT OF PUMPS AND GUIDE BARS WITH CASTING BEFORE ASSEMBLY TO ALLOW PROPER REMOVAL OF PUMPS.
- CONTRACTOR SHALL FURNISH ALL PIPING AND FITTINGS REQUIRED TO COMPLETE THE INSTALLATION.
- SEE SPECIFICATIONS FOR CONDUIT, FITTINGS, AND INSTALLATION REQUIREMENTS OF ELECTRICAL WORK BETWEEN WET WELL AND MOTOR CONTROL PANEL. ALL ELECTRICAL WORK AND EQUIPMENT IN WETWELL SHALL BE RATED FOR A CLASS 1, DIVISION1, GROUP C AND D LOCATION. ALL ELECTRICAL WORK AND EQUIPMENT WITHIN A 3 FOOT RADIUS OF THE WETWELL VENT SHALL BE RATED FOR CLASS 1, DIVISION 1, GROUP C AND D LOCATION. ALL ELECTRICAL WORK AND EQUIPMENT WITHIN 3 FOOT TO 5 FOOT RADIUS OF THE WETWELL VENT AND 3 FEET FROM THE ACCESS HATCH (ALL SIDES) TO 1.5 FEET ABOVE GRADE SHALL BE RATED FOR A CLASS 1, DIVISION 2, GROUP C AND D LOCATION.
- EXISTING STRUCTURE FOUNDATION DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSION OBTAINED FROM EXISTING BUILDING PLANS. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND LOCATIONS OF EXISTING APPURTENANCES AND OPENINGS.
- PROVIDE ADDITIONAL REINFORCING AT ALL FLOOR SLAB OPENINGS. SEE DETAIL (



CONCRETE SURFACE REPAIR

PUMPING STATION ELEVATIO	NS
DESCRIPTION	ELEVATION
FLOOR ELEV. OF MANHOLE (WETWELL)	-11.40
INVERT ELEV. OF SEWER(S)	-7.05
CROWN ELEV. OF FORCE MAIN	0.38
ELEV. OF TOP OF SLAB	7.95
ELEV. OF TOP OF CASTING	7.95
ELEV. OF FINISHED GRADE AT P.S.	7.95
COMMON PUMPS OFF	-9.50
LEAD PUMP ON	-7.55
LAG PUMP ON	-7.25
HIGH WATER LEVEL	-7.05
LOW WATER LEVEL	-9.75
FLOOR ELEV. OF VALVE VAULT	-1.05
FORCE MAIN DIAMETER (INCHES)	8-IN
DIMENSION & TO & OF PUMPS	18-IN
DIMENSION & TO & OF VALVES	18-IN

CONSTRUCTION SEQUENCE FOR TRANSITION:

- 1. SET UP BYPASS PUMPS FOR THE PROJECT. PUMP BYPASS SYSTEM MUST BE ABLE TO CONVEY FIRM CAPACITY (2 PUMPS WITH A CAPACITY OF 350 GPM EACH). IF ELECTRIC PUMPS ARE USED, SUPPLY 2 GENERATORS. IN ALL BYPASS PUMPING SITUATIONS, THERE MUST BE SOMEONE ON-SITE AT ALL TIMES DURING BYPASSING TO ENSURE PUMPS ARE OPERATING.
- 2. INSTALL CONNECTION TO EXISTING FORCE MAIN, INCLUDING 8"X8" TEE, BOTH 8" PLUG VALVES ADJACENT TO THE TEE, AND RECONNECT TO EXISTING PIPING. RETURN THE FORCE MAIN TO SERVICE.
- 3. INSTALL VERTICAL 8" PIPING OFF THE TEE WITH QUICK CONNECT TO USE FOR BYPASS PUMPING.
- 4. CONNECT BYPASS PUMPS TO NEW QUICK DISCONNECT AND BYPASS AROUND STATION INTO EXISTING FORCE MAIN AND CONSTRUCT REMAINING PUMPING STATION REHABILITATION.

ISSUED FOR REVIEW O9/25/2020						
ISSUED FOR REVIEW	DATE:	09/25/2020				
	REVISIONS	ISSUED FOR REVIEW				
0 -	NO.	1				

SECTION POM

JOB NO.

1020.102

PROJECT MGR.

PAUL DREIS



SHEET **ASM1.1**