THURBER LIFT STATION REPLACEMENT

FOR THE

CITY OF MADISON MADISON, WI

AUGUST, 2021



APPROVED BY:

APPROVED

NOVEMBER 17, 2020

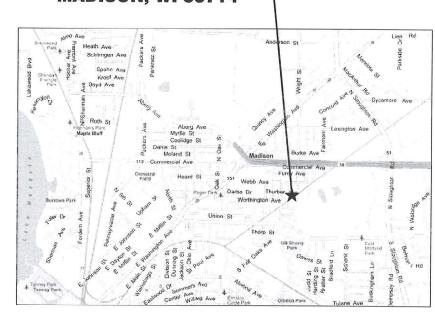
BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN

PUBLIC IMPROVEMENT PROJECT

8/19/21

THURBER AVENUE PUMPING STATION 3325 THURBER AVENUE MADISON, WI 53714



PROJECT LOCATION MAP



SHEET NO. DRAWING NO. TITLE

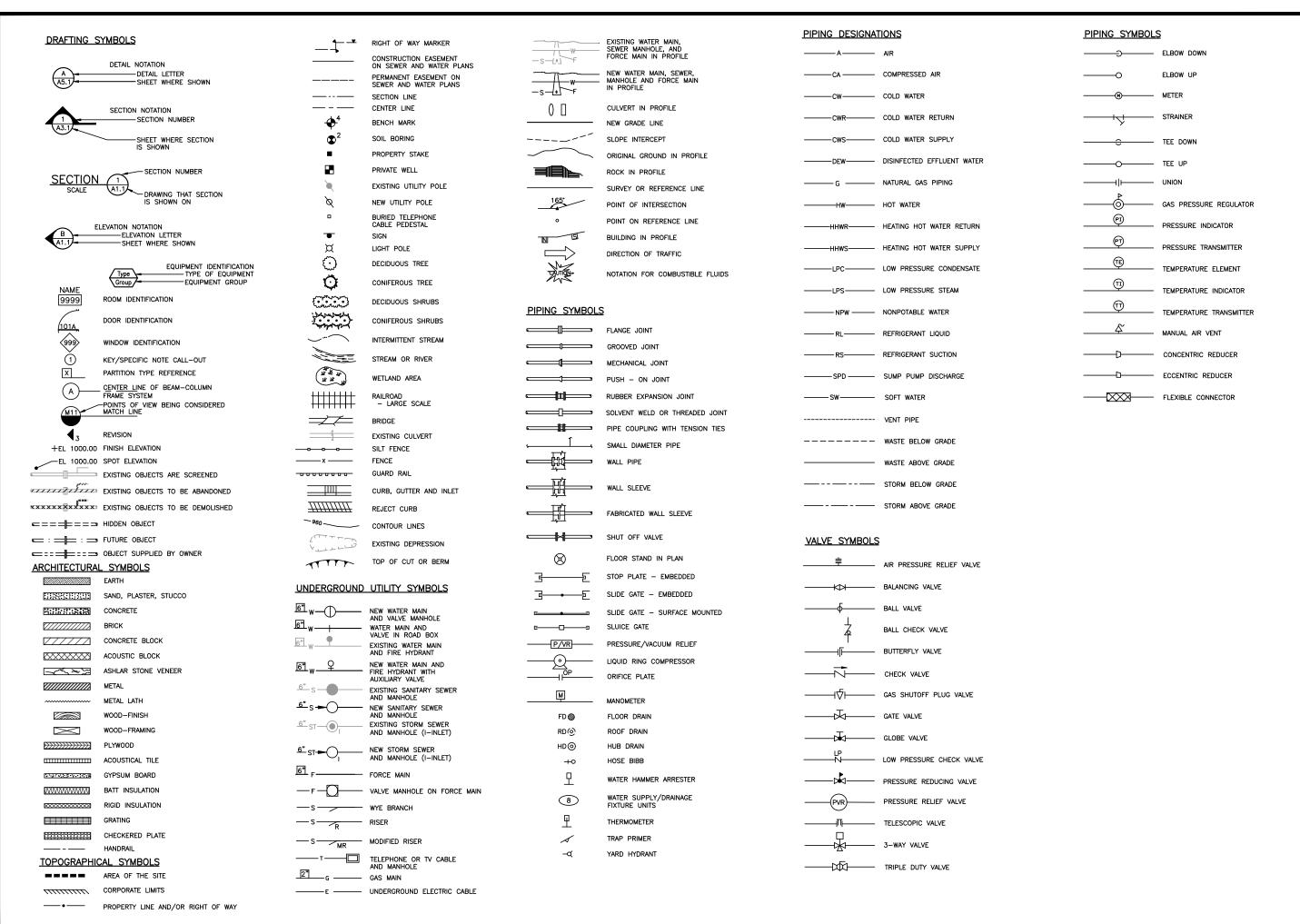
G0.1	GENERAL - TITLE SHEET, PROJECT LOCATION, LIST OF DRAWINGS
G0.2	GENERAL - STANDARD SYMBOLS
G0.3	GENERAL -ABBREVIATIONS
G0.4	GENERAL - ELECTRICAL SYMBOLS
	G0.1 G0.2 G0.3

5	D1.1	PUMPING STATION - DEMOLITION PLANS AND SECTION
6	ASM1.1	PUMPING STATION - PLANS AND SECTION
7	E1.1	PUMPING STATION - ELECTRICAL PLANS AND SITE PLAN
8	ASM5.1	ARCHITECTURAL/STRUCTURAL/MECHANICAL - DETAILS
9	H6.1	HVAC - SCHEDULES
10	E5.1	ELECTRICAL - DETAILS
11	E6.1	ELECTRICAL - SCHEDULES AND DIAGRAMS

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

PROJECT 11672 CONTRACT # 9063





GENERAL
STANDARD SYMBOL
THURBER LIFT STATION REPLACITY OF MADISON
MADISON, WISCONSIN

JOB NO.
1020.102
PROJECT MGR.
ANDREW B. CONSTANT



2 G0.2

GENERAL EQUIPMENT ABBREVIATIONS	SHFP SODIUM HYPOCHLORITE FEED PUMP	PLUMBING ABBREVIATIONS	GENERAL/HVAC ABBREVIATIONS	ICF INDUSTRIAL CEILING FAN	IG ISOLATED GROUND
AC AIR COMPRESSOR	SHST SODIUM HYPOCHLORITE STORAGE TANK	AEW APRON END WALL	ACH AIR CHANGES PER HOUR	IR INFRARED HEATER	IMC INTERMEDIATE METAL CONDUIT
ACU ACCUMULATOR ADT AUTOMATIC DRIP TRAP	SLG SLUICE GATE	BF BLIND FLANGE CA COMPRESSED AIR	AFF ABOVE FINISHED FLOOR ALT ALTERNATE	L LOUVER	JB JUNCTION BOX KCMIL ONE THOUSAND CIRCULAR MILS
AFT AUTOMATIC FILTER	SP SUMP PUMP SRT SILOXANE REMOVAL TANK	CB CATCH BASIN	AP ACCESS PANEL	MAU MAKE-UP AIR UNIT P PUMP	KO KNOCKOUT
AOV AIR OPERATED VALVE	SSC SCREENINGS SCREW CONVEYOR	CD CONDENSATE DRAIN	BTU BRITISH THERMAL UNIT	PWP PROCESS WATER PUMP	KVA KILOVOLT AMPERES
AM ANOXIC MIXER	STCP STRUVITE CHEMICAL PUMP	CI CAST IRON	BTUH BRITISH THERMAL UNIT PER HOUR	RF RETURN FAN	KVAR KILOVOLT AMPERES REACTIVE
AST AUTOMATIC STRAINER	STG STOP GATE	CO CLEAN OUT	CFM CUBIC FEET PER MINUTE	RG RETURN GRILLE	KW KILOWATT
BSLP BLENDED SLUDGE PUMP B BLOWER	STR STRAINER	COND CONDENSATE CPVC CHLORINATED POLYVINYL CHLORIDE	CLG CEILING COND CONDENSATE	RR REGISTER	LP LIGHTING PANEL
BC BRIDGE CRANE	SV SOLENOID VALVE SWP SCREENINGS WASHER/PRESS	CW COLD WATER	DAT DISCHARGE AIR TEMPERATURE	RTU ROOFTOP UNIT SD SUCTION DIFFUSER	LTG LIGHTING LV LOW VOLTAGE
BFP BELT FILTER PRESS	TV TELESCOPING VALVE	D DRAIN	DB DRY BULB TEMPERATURE	SD SUCTION DIFFUSER SF SUPPLY FAN	MATV MASTER ANTENNA TELEVISION
BFPFP BFP FEED PUMP	TWASP TWAS PUMP	DCBP DOUBLE CHECK BACKFLOW PREVENTER	DDC DIRECT DIGITAL CONTROL	SG SUPPLY GRILLE	MC METAL CLAD
BFV BUTTERFLY VALVE	UV ULTRAVIOLET DISINFECTION	DF DRINKING FOUNTAIN	DG DOOR GRILLE	SR SUPPLY REGISTER	MCC MOTOR CONTROL CENTER
BLP BIOSOLIDS LOADING PUMP BLR BOILER	WASP WAS PUMP	DFU DRAINAGE FIXTURE UNIT DI DUCTILE IRON	DX DIRECT EXPANSION EA EXHAUST AIR	ST STEAM TRAP	MCB MAIN CIRCUIT BREAKER
BP BOOSTER PUMP		ESEW EMERGENCY SHOWER EYEWASH	EAT ENTERING AIR TEMPERATURE	SUH STEAM UNIT HEATER TCP TEMPERATURE CONTROL PANEL	MCCB MOLDED CASE CIRCUIT BREAKER MCM THOUSAND CIRCULAR MILS
BSLMP BLENDED SLUDGE MIXING PUMP		EW EYEWASH	EL ELEVATION	TG TRANSFER GRILLE	MCP MOTOR CIRCUIT PROTECTOR
BSLP BLENDED SLUDGE PUMP	FLUID ABBREVIATIONS A AIR	EWC ELECTRIC WATER COOLER	ESP EXTERNAL STATIC PRESSURE	UH UNIT HEATER	MDP MAIN DISTRIBUTION PANELBOARD
BSTM BIOSOLIDS STORAGE MIXER	BSL BLENDED SLUDGE	FCO FLOOR CLEAN OUT	EWT ENTERING WATER TEMPERATURE	UV UNIT VENTILATOR	MISC MISCELLANEOUS
BTP BIOSOLIDS TRANSFER PUMP CENT CENTRIFUGE	CA COMPRESSED AIR	FD FLOOR DRAIN FOR FUEL OIL RETURN	FC FAIL CLOSED FLA FULL LOAD AMPS	VAV VARIABLE AIR VOLUME BOX	MLO MAIN LUGS ONLY
CNTP CENTRIFUGE	CNT CENTRATE	FOS FUEL OIL SUPPLY	FO FAIL OPEN	VD VOLUME DAMPER VFD VARIABLE FREQUENCY DRIVE	MO MOTOR OPERATED MTD MOUNTED
CENTP CENTRIFUGE FEED PUMP	CDG COMPRESSED DIGESTER GAS	HB HOSE BIBB	FPI FINS PER INCH	VFD VARIABLE FREQUENCY DRIVE WSHP WATER SOURCE HEAT PUMP	MTD MOUNTED MTG MOUNTING
CP CHEMICAL PUMP	CLS CHLORINE SOLUTION	HD HUB DRAIN	FPM FEET PER MINUTE	XT EXPANSION TANK	MTS MANUAL TRANSFER SWITCH
COMP COMPRESSOR	CNT CENTRATE CW COLD WATER	HDPE HIGH DENSITY POLYETHYLENE	FT FEET		MV MEDIUM VOLTAGE
CON CONVEYOR	CWR CHILLED WATER RETURN	HHWR HEATING HOT WATER RETURN	GA GAUGE GPM GALLONS PER MINUTE		MW MICROWAVE OR MEGAWATT
DBC DEWATERED BIOSOLIDS CONVEYOR DCP DECANT PUMP	CWS CHILLED WATER SUPPLY	HHWS HEATING HOT WATER SUPPLY HR HOSE REEL	GPM GALLONS PER MINUTE LAT LEAVING AIR TEMPERATURE		N NEUTRAL
DEWP DISINFECTED EFFLUENT PUMP	D DRAIN	HWL HIGH WATER LEVEL	LWT LEAVING WATER TEMPERATURE	ELECTRICAL ABBREVIATIONS	NA NOT APPLICABLE NC NORMALLY CLOSED
DP DRAINAGE PUMP	DEW DISINFECTED EFFLUENT WATER	HW HOT WATER	MBH THOUSANDS OF BTU PER HOUR	A AMPERE	NAC NOTIFICATION APPLIANCE CIRCUIT PANE
DRLP DIGESTER RECIRCULATION PUMP	DG DIGESTER GAS DIV DIVERSION	HWR HOT WATER RETURN	MC MECHANICAL CONTRACTOR	AF AMPERE FRAME	NEC NATIONAL ELECTRIC CODE
DSLMP DIGESTER MIXING PUMP	DRL DIGESTER RECIRCULATION	IE INVERT ELEVATION	NA NOT APPLICABLE	AFF ABOVE FINISHED FLOOR	NIC NOT IN CONTRACT
DSLTP DIGESTED SLUDGE TRANSFER PUMP	DS DIGESTER SUPERNATANT	IWP INDIRECT WASTE PIPE	NC NORMALLY CLOSED NO NORMALLY OPEN	AFG ABOVE FINISHED GRADE	NL NIGHT LIGHT
DT DRIP TRAP DOW DOWNWARD OPENING WEIR GATE	DSL DIGESTED SLUDGE	L LAVATORY MB MOP BASIN	NPT NATIONAL PIPE THREAD	AHJ AUTHORITY HAVING JURISDICTION	NM NONMETALLIC
EFC EXCESS FLOW CLARIFIER	DSL MD DIGESTER SLUDGE MIXER DISCHARGE	MH MANHOLE	NTS NOT TO SCALE	AHU AIR HANDLING UNIT AIC AMPERE INTERRUPTING CAPACITY	NO NORMALLY OPEN NSF NATIONAL SANITARY FOUNDATION
EFP EXCESS FLOW PUMP	DSL MS DIGESTER SLUDGE MIXER SUCTION	MV MUD VALVE	OA OUTSIDE AIR	AL ALUMINUM	NTS NOT TO SCALE
EFSP EXCESS FLOW SOLIDS PUMP	EF EXCESS FLOW EFS EXCESS FLOW SOLIDS	PHW PROCESS HOT WATER	OC ON CENTER	AT AMPERE TRIP	OCB OIL CIRCUIT BREAKER
EP EFFLUENT PUMP	FE FINAL EFFLUENT	P PUMP	OV OUTLET VELOCITY PD PRESSURE DROP	ATS AUTOMATIC TRANSFER SWITCH	OL OVERLOAD
FC FINAL CLARIFIER FCD FINAL CLARIFIER DRIVE	F FORCE MAIN	POC POINT OF CONNECTION PRV PRESSURE REDUCING VALVE	PSI POUNDS PER SQUARE INCH	A/V AUDIO VISUAL	OT OVERTEMP
FEP FINAL EFFLUENT PUMP	G NATURAL GAS	PV PLUG VALVE	PSIG POUNDS PER SQUARE INCH GAUGE	AWG AMERICAN WIRE GAUGE BLDG BUILDING	PR PAIR P POLF
FILT FILTER	GR GRIT	PVC POLYVINYL CHLORIDE	RA RETURN AIR	C CONDUIT	P POLE PB PULL BOX
FM FLOW METER	GTS GRAVITY THICKENER SUPERNATANT HOCL HYPOCHLORITE	PVR PRESSURE VACUUM RELIEF ASSEMBLY	RPM REVOLUTIONS PER MINUTE	CAT CATALOG	PC PULL CORD
FT FLAME TRAP	HW HOT WATER	QC QUICK CONNECT	SA SUPPLY AIR SP STATIC PRESSURE	CATV CABLE TELEVISION	PH PH SENSOR
GBT GRAVITY BELT THICKENER GC GRIT CLASSIFIER	HWR HOT WATER RETURN	RCP REINFORCED CONCRETE PIPE RD ROOF DRAIN	SP STATIC PRESSURE	CB CIRCUIT BREAKER	ø PHASE
GFM GAS FLOW METER	HWS HOT WATER SUPPLY	RZBP REDUCED ZONE BACKFLOW PREVENTER		CCTV CLOSED CIRCUIT TELEVISION CKT CIRCUIT	PNL PANELBOARD PRI PRIMARY
GCS GAS COMPRESSOR SKID	ML MIXED LIQUOR	S SINK	HVAC EQUIPMENT ABBREVIATIONS	CKT CIRCUIT CL CENTERLINE	PT POTENTIAL TRANSFORMER
GP GRIT PUMP	NAOH SODIUM HYDROXIDE				11 TOTENTIAL TRANSPORTER
GI GIATTOM		SD SHOWER DRAIN	ACCU AIR COOLED CONDENSING UNIT	CLG CEILING	PTZ PAN, TILT, ZOOM CAMERA
GRN GRINDER	NPW NONPOTABLE WATER	SEJ SEWAGE EJECTOR		CLG CEILING COL COLUMN	PTZ PAN, TILT, ZOOM CAMERA PVC POLYVINYL CHLORIDE
GRN GRINDER GT GRIT TRAP	NPW NONPOTABLE WATER OF OVERFLOW	SEJ SEWAGE EJECTOR SHR SHOWER	ACCU AIR COOLED CONDENSING UNIT AFR ARCHITECTURAL FINE TUBE RADIATION AHU AIR HANDLING UNIT	COL COLUMN CT CURRENT TRANSFORMER	PVC POLYVINYL CHLORIDE PWR POWER
GRN GRINDER GT GRIT TRAP GUH GAS UNIT HEATER	NPW NONPOTABLE WATER	SEJ SEWAGE EJECTOR SHR SHOWER SP SUMP PUMP	ACCU AIR COOLED CONDENSING UNIT AFR ARCHITECTURAL FINE TUBE RADIATION AHU AIR HANDLING UNIT AS AIR SEPARATOR	COL COLUMN CT CURRENT TRANSFORMER CTE CONNECT TO EXISTING	PVC POLYVINYL CHLORIDE PWR POWER RSC RIGID GALVANIZED STEEL CONDUIT
GRN GRINDER GT GRIT TRAP	NPW NONPOTABLE WATER OF OVERFLOW OC ODOR CONTROL PDP PERFORATED DRAIN PIPE PE PLANT EFFLUENT	SEJ SEWAGE EJECTOR SHR SHOWER SP SUMP PUMP SS STAINLESS STEEL	ACCU AIR COOLED CONDENSING UNIT AFR ARCHITECTURAL FINE TUBE RADIATION AHU AIR HANDLING UNIT AS AIR SEPARATOR BLR BOILER	COL COLUMN CT CURRENT TRANSFORMER CTE CONNECT TO EXISTING CU COPPER	PVC POLYVINYL CHLORIDE PWR POWER RSC RIGID GALVANIZED STEEL CONDUIT RTS REMOTE TEST SWITCH
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GRN GRINDER GT GRIT TRAP GUH GAS UNIT HEATER GW GRIT WASHER H HOIST HBT HYDROPNEUMATIC BOOSTER TANK HTX HEAT EXCHANGER	NPW NONPOTABLE WATER OF OVERFLOW OC ODOR CONTROL PDP PERFORATED DRAIN PIPE PE PLANT EFFLUENT PEC POLYELECTROLYTE CHEMICAL PI PLANT INFLUENT	SEJ SEWAGE EJECTOR SHR SHOWER SP SUMP PUMP SS STAINLESS STEEL SV SOLENOID VALVE SVS SERVICE SINK T TANK	ACCU AIR COOLED CONDENSING UNIT AFR ARCHITECTURAL FINE TUBE RADIATION AHU AIR HANDLING UNIT AS AIR SEPARATOR BLR BOILER	COL COLUMN CT CURRENT TRANSFORMER CTE CONNECT TO EXISTING CU COPPER CUH CABINET UNIT HEATER	PVC POLYVINYL CHLORIDE PWR POWER RSC RIGID GALVANIZED STEEL CONDUIT RTS REMOTE TEST SWITCH
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THURBER LIFT STATION REPLACEI CITY OF MADISON MADISON, WISCONSIN

GENERAL ABBREVIATIONS

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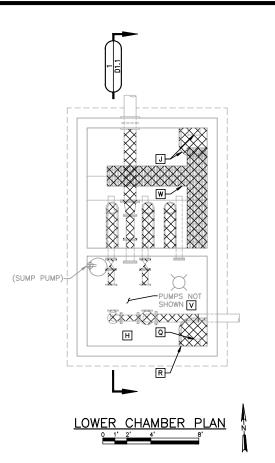
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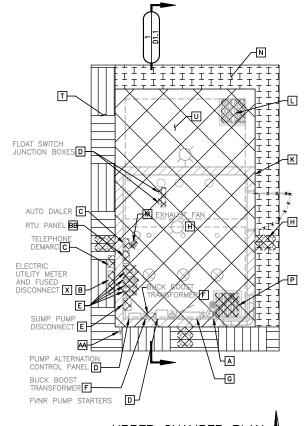


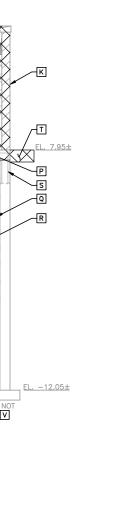
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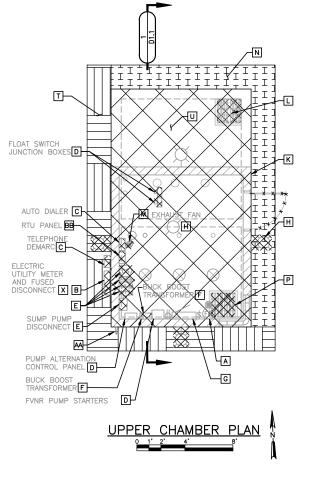
ELECTRIC	AL SYMBOLS		POWER SYMBOLS		MENTATION EQUIPMENT	TECHNO ▲(*)	LOGY SYMBOLS	<u>ACTUATORS</u>			
	LIGHTING		-CIRCUIT NUMBER (TYPICAL) -OTHERWISE SHOWN PANEL DESIGNATION	(AE)	ANALYSIS ELEMENT		DATA JACK PHONE JACK	M	MOTOR (FLECTRIC)		
<u> </u>	FIXTURE SYMBOL (TYPICAL)	⊕ ^{2(X)}	(TYP.) DUPLEX, 125 VOLT, WP	⟨AIT⟩*	ANALYSIS INDICATING TRANSMITTER, *: DO=DISSOLVED OXYGEN, PH=PH, TRB=TURBID) POTS ANALOG PHONE AND DATA JACKS	Т	MOTOR (ELECTRIC)		
ь	A-INDICATES FIXTURE TYPE 2-INDICATES CIRCUIT NUMBER	♣-	INDICATES WEATHERPROOF DUPLEX, 125 VOLT, ABOVE FURNITURE		TSS=TOTAL SUSPENDED SOLIDS, GD=GAS DETECT CA=CHLORINE ANALYZER, OP=OXYGEN PURITY, LEL=LOWER EXPLOSIVE LIMIT, PR=PROXIMITY,	VOIP	* = # OF JACKS WALL MOUNT VOIP PHONE JACK	P	PNEUMATIC		
	b-indicates switching solid circle indicates always on	Ψ 44			MST=MOISTURE	$\stackrel{lack}{\simeq}$	54" AFF WALL MOUNT POTS ANALOG PHONE			VTE:	
¤	INCANDESCENT, LED, HID, SURFACE	\$\$ -	DOUBLE DUPLEX, 125 VOLT, ABOVE FURNITURE	(cs) _{1,2}	CONTROL SWITCH DEVICE TYPE	$\overline{\bigcirc}$	JACK 54" AFF SCADA NETWORK JACK	<u>s</u>	SOLENOID	O8/1	
	OR PENDANT INCANDESCENT, LED, HID, WALL		DOUBLE DUPLEX, 125 VOLT	(DE)	(SEE MCC SCHEDULE) DENSITY ELEMENT		DATA RACK	·			
ΗX		⊖ _{EWC}	SINGLE CONVENIENCE, 125 VOLT FOR ELECTRIC WATER COOLER	(DIT)	DENSITY INDICATING TRANSMITTER	• • • • • • • • • • • • • • • • • • •	COAX CABLE	EQUIPMENT S	SYMBOLS		
$\vdash \!$	1X4 FLUORESCENT, SURFACE OR PENDANT	#	EXPLOSION-PROOF, ABOVE FURNITURE		FLOW ELEMENT		POWER POLE				
\longmapsto	1X8 FLUORESCENT, SURFACE OR PENDANT	₽	EXPLOSION-PROOF	⟨FE ⟩				— <u>ACU</u> ——	ACCUMULATOR		
$\vdash \Diamond \vdash$	FLUORESCENT, WALL		FIXED EQUIPMENT CONNECTION	FIT*	FLOW INDICATING TRANSMITTER, *: M=MAGNETIC, TM= THERMAL MASS DD_DIFFERENTIAL DESCRIPE LIGHT TRASCANIC	•••	PA SYSTEM HORN SPEAKER; 10'-0" AFF	•	AIR FLOW DIRECTION	<u> </u>	
	1X4 FLUORESCENT, RECESSED	8	POWER OUTLET, VOLTAGE &	⟨FS⟩*	DP=DIFFERENTIAL PRESSURE, U=ULTRASONIC FLOW SWITCH	PA	PA SYSTEM SPEAKER				
	1X4 FLOORESCENT, RECESSED	Ğ	AMPERAGE AS INDICATED	(13)	*: P=PADDLE, T=THERMAL, C=CAPACITANCE, A=AIR FLOW	\Diamond^{A}	SPEAKER; CEILING MOUNT A=SPEAKER TYPE	()	BASE MOUNTED PUMP		
0	2X2 FLUORESCENT, RECESSED	0-0	AUTOMATIC TRANSFER SWITCH	(HS)*	HAND SWITCH	⟨ĸ⟩	KEY PAD	-	DI OWED	8	
	2X4 FLUORESCENT, RECESSED	°	(ONE-LINE DIAGRAM)	(IE) OR (EE)	*: SS=SAFETY SWITCH POWER ELEMENT	(BD)	GLASS BREAK DETECTOR	——	BLOWER	6. 8.	
0	CAN, FLUORESCENT, LED, OR HID	6 b M)	CIRCUIT BREAKER (ONE-LINE DIAGRAM)		(CURRENT XFMR, POTENTIAL XFMR)	MS	MOTION SENSOR	->	CEILING DIFFUSER WITH FLEXIBLE DUCT	ISSUE	
	EXIT, SURFACE, PENDANT	W	METER (ONE-LINE DIAGRAM)	(IS)	CURRENT SWITCH	P	PUSH BUTTON	<u>~</u> V		<u>o</u> _	
•	OR RECESSED	\cup		(JIT)	POWER INDICATING TRANSMITTER	(ES)	ELECTRIC STRIKE	-	CENTRIFUGAL PUMP	z	
₩ 	EXIT, WALL		PANELBOARD	KS	TIME SWITCH	(ML)	MAGNETIC LOCK				
	EMERGENCY LIGHTING			(LE)	LEVEL ELEMENT	$\langle \overline{1} \rangle$	INTERCOM STATION	•	CONNECT TO EXISTING		
	SWITCHES			— — *	LEVEL INDICATING TRANSMITTER,	(S) ##-	OCCUPANCY SENSOR		DDID TDAD		
\$ \$-	SINGLE POLE TWO POLE	FIRE ALAR	M AND DETECTION SYMBOLS	(шт)	*: S=SUBMERSIBLE, U=ULTRASONIC, R=RADAR, TL=TANK LEVEL/RING PRESSURE TYPE, F=FLANG	;E	SEE SPECIFICATION FOR SENSOR TYPE	— II ——	DRIP TRAP		
Ψ2 \$-7	THREE WAY	FACP	FIRE ALARM CONTROL PANEL	⟨LS⟩*	MOUNTED) LEVEL SWITCH.	YE YE	CARD READER		DUCT BOOST COIL		
* 3	FOUR WAY			(13)	*: C=CONDUCTANCE, F=BALL FLOAT, V=VIBRATING FORK, B=BUILDING FLOODING	(RVC)	REMOTE VOLUME CONTROL	EX.			
[₽] 4 \$ _K	KEYED	FAAP	FIRE ANNUNCIATOR CONTROL PANEL	(LT)*	LEVEL TRANSDUCER		ORK SYMBOLS	Type Group	EQUIPMENT TAG		
\$ _D	DIMMER	$\Box \diamondsuit_{\bar{\imath}_{\bar{i}}}$	STROBE; WALL MOUNT - ADA RATED		S=SUBMERSIBLE		SUPPLY DUCT (UP OR SECTION)	Согодру			<u></u>
\$ _M	MANUAL MOTOR SWITCH (3 PHASE)	_	- STROBE CANDELA RATING 80" AFF	PDIT	DIFFERENTIAL PRESSURE INDICATING TRANSMITTER	[X]	SUPPLY OR OUTSIDE AIR DUCT	—FA	FLAME ARRESTER		V BE
* _{WP}	WEATHER PROOF	H 🗘 ## 👡	HORN STROBE; WALL MOUNT — ADA RATED —STROBE CANDELA RATING 80" AFF	(PE)	PRESSURE ELEMENT	\boxtimes	(DOWN/OR AWAY)		5.445.05U		
\$ _P	SWITCH WITH PILOT LIGHT	[S]	SPEAKER STROBE; WALL MOUNT - ADA RATED	PIT	PRESSURE INDICATING TRANSMITTER		EXHAUST DUCT (UP OR SECTION)	—FC	FLAME CELL		
	LIGHTING CONTROL STATION	Ľ\ # # →	SPEAKER STROBE; WALL MOUNT – ADA RATED —STROBE CANDELA RATING 80" AFF	_			EXHAUST OR RETURN DUCT (DOWN/OR AWAY)	— Fī —	FLAME TRAP ASSEMBLY	RAL	AL STIMI TION REPI MADISON WISCONSI
© ® ® ©	LOCKOUT STOP SWITCH	FAK H	HORN; WALL MOUNT — ADA RATED	PS	PRESSURE SWITCH	EH.	ζ=,,	_ (2)	GRINDER	ш.	J ÷ ₹ ₹
(DP)	DOOR POSITION SWITCH PHOTOCELL	FAC S	SPEAKER; WALL MOUNT — ADA RATED	(SS)	SPEED SWITCH		ROUND DUCTWORK UP	— <u>G</u> —	GNINDER	1 5	TAT OF I
4.0		-F _{##}	STROBE; CEILING MOUNT — ADA RATED	₹ *	TEMPERATURE CONTROLLER TEMPERATURE ELEMENT		ROUND DUCTWORK DOWN		INLINE PUMP	GE	
.i	EQUIPMENT AND WIRING	₩#	— STROBE CANDELA RATING HORN STROBE; CEILING MOUNT – ADA RATED	(TE)	TEMPERATURE ELEMENT, *: R=RTD, T=THERMOCOUPLE		ROUND DOCIMORK DOWN	П			
⊩	GROUND CONNECTION (ONE-LINE DIAGRAM)	_	-STROBE CANDELA RATING	⟨TIT⟩	TEMPERATURE INDICATING TRANSMITTER		FLEXIBLE CANVAS CONNECTION	-[POSITIVE DISPLACEMENT PUMP		
***	TRANSFORMER	Ø## <u></u>	SPEAKER STROBE; CEILING MOUNT — ADA RATED —STROBE CANDELA RATING	⟨TK⟩	TEMPERATURE CONTROL STATION	. —	TUDINIO VIVIE		DOOF EVILABLET FAN	'	ᄪ
	DISCONNECT, F=FUSED, B=CIRCUIT BREAKER,	ARA	AREA OF RESCUE ASSISTANCE	⟨TS⟩	TEMPERATURE SWITCH		TURNING VANES		ROOF EXHAUST FAN	1	F
⊠	BLANK=NON-FUSED MOTOR STARTER MAGNETIC		EMERGENCY TELEPHONE SYSTEM	$\overline{\Box}$	TEMPERATURE TRANSMITTER	DAMPE	R SYMBOLS	- ~□	LINIT LIFATED	1	
	CIRCUIT BREAKER	⟨H⟩	HEAT DETECTOR; CEILING MOUNT	⟨VE⟩	VIBRATION ELEMENT	M		, ,	UNIT HEATER	1	
□	COMBINATION STARTER	< ②	SMOKE DETECTOR; CEILING MOUNT	⟨VIT ⟩	VIBRATION INDICATING TRANSMITTER		AUTOMATIC DAMPER		VARIABLE AIR VOLUME	1	
(T)	JUNCTION BOX LINE VOLTAGE THERMOSTAT	(Z)	ELEVATOR RECALL SMOKE DETECTOR	(WE)	WEIGHT ELEMENT	BDD			(VAV) BOX WITH ELECTRIC REHEAT COIL		
① ① —	LINE VOLTAGE THERMOSTAT	R NOX	NITROUS OXIDE SENSOR	(ws)	TORQUE SWITCH	*	BACKDRAFT DAMPER				
	W/REMOTE BULB		CARBON MONOXIDE SENSOR	₩T>	WEIGHT TRANSMITTER (SCALE)	<u> </u>		ra ⁴	VARIABLE AIR VOLUME		
<u> </u>	480V LOAD, REFER TO MCC SCHEDULE FOR EQUIPMENT NUMBER	©	—SWITCH INDICATION	∑ ⟨YS⟩	PRESENCE/ABSENCE DETECTOR	7 1	MANUAL VOLUME DAMPER	4_ =	(VAV) BOX WITH HEATING HOT WATER REHEAT COIL		
VFD	VARIABLE FREQUENCY DRIVE	(DSD)	DUCT SMOKE DETECTOR	ZS*	POSITION SWITCH,	₹ FD	1-1/2 HR. FIRE DAMPER				OB NO.
	SITE SYMBOLS		—DUCT SIZE		*: D=DOOR, L=LIMIT, P=PROXIMITY		MOLINTED CONTROLS	(\mathcal{F})	FLOATING MIXER		020.102
=	SITE SYMBOLS	RTS	REMOTE TEST SWITCH	\nearrow	SOLENOID VALVE	FIELD T	MOUNTED CONTROLS THERMOSTAT				JECT MGR. / B. CONSTANT
	UNDERGROUND ELECTRIC OVERHEAD ELECTRIC		—SWITCH INDICATION FIRE ALARM PULL STATION	ĒX	FIXED SECURITY CAMERA	-	HENWOOD	}	SCREW CONVEYOR		
	CABLE TELEVISION SERVICE				PAN, TILT, ZOOM SECURITY CAMERA	$oldsymbol{\Theta}$	ROOM HUMIDISTAT				J, T
	TELEPHONE SERVICE	(SFS)	SPRINKLER FLOW SWITCH		GAS DETECTION SYSTEM HORN; WALL MOUNT	₽ ⊸	PRESSURE SENSOR				
	FIBER OPTIC CABLE	₩ E	SPRINKLER VALVE TAMPER SWITCH		GAS DETECTION SYSTEM STROBE; WALL MOUNT	I					
Ø	UTILITY POLE	BQ	FIRE ALARM BELL	_~		S	ROOM SENSOR			IST	RAND
						s /	DUCT SMOKE DETECTOR				CIATES
						0	PRESSURE GAUGE			<u> </u>	HEET
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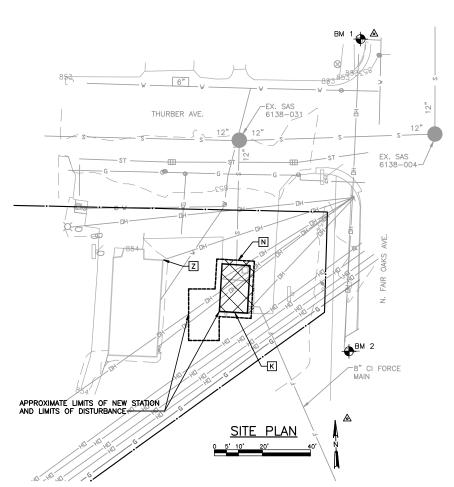
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GENERAL NOTES:

BENCHMARK TABLE DESCRIPTION

BM 2 CHISELED "X" IN POST BASE 855.00 *MMSD ELEVATION CONVERSION = (-845.60)

856.10

BM 1 TOP NUT FIRE HYDRAN

- REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIALS ASSOCIATED WITH THE ITEMS BEING REMOVED AND SHOWN ON THIS DRAWING, AS WELL AS ALL EXISTING ELECTRICAL DEVICES, MATERIALS, AND EQUIPMENT NOT BEING REUSED.
- ALL EXISTING ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE REMOVED. SOME EQUIPMENT NOT SHOWN WITH HATCHING FOR CLARITY.
- CONCRETE REMOVAL REQUIRED FOR WALL VERTICAL SURFACE REPAIRS. SEE DRAWING ASM1.1 FOR LOCATIONS AND DETAILS.

DEMOLITION NOTES:

- REMOVE EXISTING FLOW TRANSMITTER AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- B COORDINATE REMOVAL OF EXISTING ELECTRICAL UTILITY SERVICE WITH THE UTILITY COMPANY. REMOVE METER SOCKET AND FUSED DISCONNECT AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- C COORDINATE REMOVAL OF EXISTING TELEPHONE SERVICE WITH THE TELEPHONE UTILITY COMPANY, REMOVE EXISTING AUTO DIALER AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. COORDINATE REMOVAL WITH OWNER
- REMOVE EXISTING PUMP STARTERS, PUMP CONTROL PANEL, FLOAT SWITCHES AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- [E] REMOVE EXISTING MANUAL MOTOR SWITCHES, CONTROL STATION, SUMP PUMP DISCONNECT AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- F REMOVE EXISTING BUCK-BOOST TRANSFORMERS AND ALL ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
- G REMOVE EXISTING LOAD CENTER AND ALL ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
- H REMOVE EXISTING LIGHT FIXTURES, LIGHTING CONTROLS, RECEPTACLES, AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- J REMOVE EXISTING LADDER AND CAGE. BURN BACK/REMOVE ANCHORS AND FILL HOLES WITH NON-SHRINK GROUT.
- REMOVE EXISTING BRICK MASONRY BUILDING AND WOOD FRAMED ROOF.
- L REMOVE EXISTING FLOOR DOOR AND EMBEDDED FRAME.
- REMOVE EXISTING EXHAUST FAN AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- N REMOVE 2'-0" MIN. BAND OF ASPHALT AND BASE MATERIAL ON NORTH AND EAST SIDE OF BUILDING FOR SLAB REMOVAL AND CONSTRUCTION. SAWCUT PERIMETER.
- P REMOVE EXISTING GRATING AND EMBEDDED FRAME.
- Q REMOVE EXISTING EMBEDDED STEEL LADDER RUNGS. BURN BACK EMBEDDED RUNGS 1" AND FILL WITH NON-SHRINK GROUT.
- R REMOVE EXISTING STEEL CAGE.
- S SALVAGE EXISTING VERTICAL WALL REINFORCING. CUT HORIZONTAL BAR TAILS AND LEAVE REMAINING VERTICAL BAR INTACT.
- EXCAVATE 12" MIN. SOIL ON WEST AND SOUTH SIDE OF BUILDING FOR SLAB REMOVAL AND CONSTRUCTION.
- REMOVE EXISTING 8" CONCRETE FLOOR SLAB AND TOP 4-INCHES OF WALLS. SEE NOTE 5.
- REMOVE ALL PUMPS, SUPPORTS, PIPING, AND ALL CONDUIT AND WIRING BACK TO SOURCE.
- W REMOVE EXISTING ALUMINUM GRATING, ANCHOR BOLTS, AND SUPPORTS.
- BAKELITE IN 3 ELECTRICAL BOXES KNOWN TO CONTAIN ASBESTOS. ALL ASBESTOS NEEDS TO BE REMOVED AND DISPOSED OF WITH APPROPRIATE PAPERWORK COMPLETED (WDNR 4500-113).
- Y WHITE CAULKING AROUND DOOR FRAME KNOWN TO HAVE ASBESTOS. ALL ASBESTOS NEEDS TO BE REMOVED AND DISPOSED OF WITH APPROPRIATE PAPERWORK COMPLETED (WDNR 4500-113).
- Z PROTECT WAUNONA S.D. BUILDING THROUGHOUT DEMOLITION AND CONSTRUCTION.
- RELOCATE EXISTING ANTENNA TO THE NEW ANTENNA TOWER WHERE SHOWN ON DRAWING E1.1. REMOVE ASSOCIATED MOUNTING HARDWARE AND ANTENNA CABLE BACK TO RTU PANEL.
- BB REMOVE RTU PANEL AND ALL ASSOCIATED CONDUIT AND WIRING. RADIO SHALL BE RETAINED AND RELOCATED TO NEW SCS ENCLOSURE.

PUMPING STATION
DEMOLITION PLANS AND SECTION T STATION REPLACEMEI TY OF MADISON SON, WISCONSIN RBER LIFT

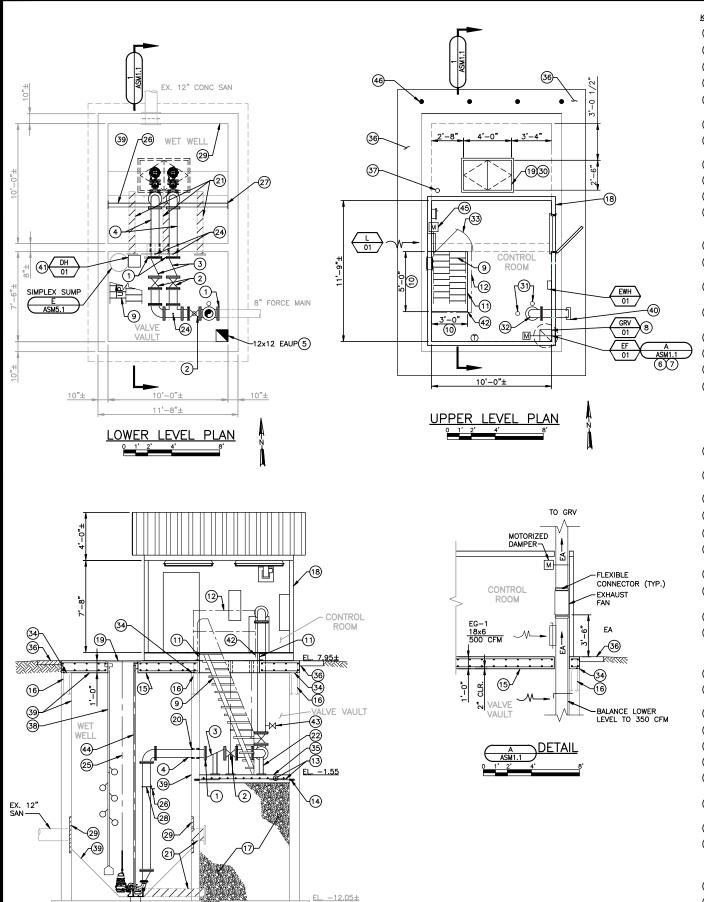
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PROJECT MGR. ANDREW B. CONSTANT



5 D1.1

N-S-



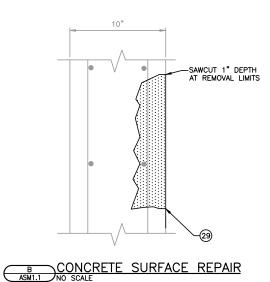
KEY NOTES:

- 1 MEGA FLANGE OR EQUAL.
- (2) 8" PLUG VALVE.
- (3) 8" CHECK VALVE.
- (4) FLANGE BY PLAIN END PIPE.
- $\begin{picture}(5)\put(0.05){\odot} \end{picture}$ 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
- (1) 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
- $\ensuremath{\textcircled{3}}$ New 8" Thick concrete floor slab reinforced with #408" each way. Center reinforcing in slab.
- (4) #408"x2'-0" LONG DRILLED ADHESIVE ANCHOR DOWELS AROUND PERIMETER OF NEW FLOOR SLAB. EMBED 4" INTO EXISTING WALL AND LAP WITH SLAB REINFORCING.
- (5) 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.
- (8) 10'-0"W x 11'-9"L x 7'-8"H CLEAR DIMENSION PRE-FABRICATED CONTROL BUILDING. SEE SPECIFICATIONS.
- 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. CONTRACTOR SHALL CONFIRM LOCATION OF ACCESS DOOR PRIOR TO POURING CONCRETE TOP SLAB.
- 20) CORE NEW HOLE FOR NEW 8" PIPE. INSTALL LINKSEAL IN EXISTING WALL TYP. OF 2
- $\begin{picture}(2)\put(0.000)($
- (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.
- (2) STAINLESS STEEL CABLE SHALL BE FASTENED TO THE WET WELL LID PER SPECIFICATIONS.
- (26) 4"x4"x3/8" S.S. ANGLE WELDED TO (27) 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 ASM5.1
- (3) 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 H ASM5.1
- 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
- $\ensuremath{\mathfrak{J}}$ 4" inverted "J" ductile iron vent with insect screen, vent opening shall be at least 12 inches above the concrete slab.
- 38) REMOVEABLE FLOAT SUPPORT (SS CABLE AND PVC COATED WEIGHT). SEE DETAIL $\left(\frac{B}{5.1}\right)$
- (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 LOCKABLE COVER.
- (41) DEHUMIDIFIER SHALL DRAIN TO OPEN GRATING ON SUMP.
- (42) MOUNT RAILING TO FACE OF CONCRETE SLAB
- 43) PROVIDE 1/2 INCH TAP, PIPE, BALL VALVE, AND CAP.
- (44) 2" SS PIPE GUIDE BARS.
- (45) DAMPER SHALL NOT INTERFERE WITH GATE.
- (46) PROVIDE BOLLARDS SPACED 4 FEET APART. SEE DETAIL (FASM5.1



GENERAL NOTES:

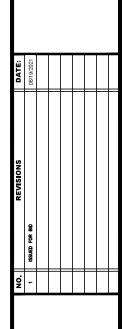
- DRAWINGS OF PUMPING STATION PIPING, PUMPS AND COVERS ARE DETAILED USING FLYGT EQUIPMENT.
- STATION PIPING, FITTINGS, AND VALVES SHALL BE AWWA C151 DUCTILE IRON, SPECIAL THICKNESS CLASS 53, CONFORMING TO SPECIFICATIONS.
- CONTRACTOR INSTALLING PUMPS SHALL CHECK ALIGNMENT OF PUMPS AND GUIDE BARS WITH 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. SHALL BE RAIED 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
- PROVIDE ADDITIONAL REINFORCING AT ALL FLOOR SLAB OPENINGS. SEE DETAIL C ASM5.1



PUMPING STATION ELEVATION	S
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:

- 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 88" 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
- 4. CONNECT BYPASS PUMPS TO NEW QUICK DISCONNECT AND BYPASS AROUND STATION INTO EXISTING FORCE MAIN AND CONSTRUCT REMAINING PUMPING STATION REHABILITATION.



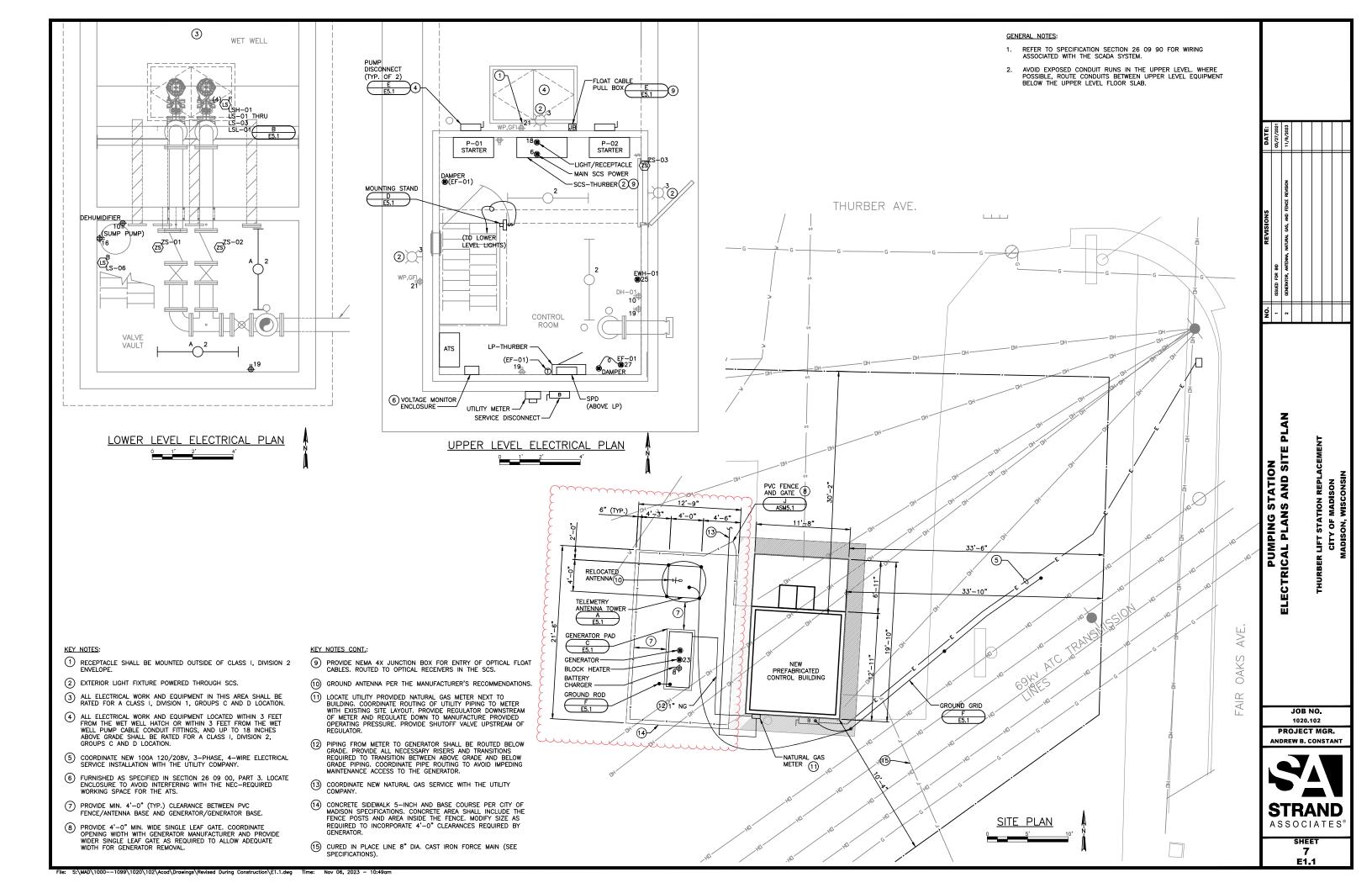
r Station Replacem Y of Madison Son, Wisconsin PUMPING STATION PLANS AND SECTION ER LIFT

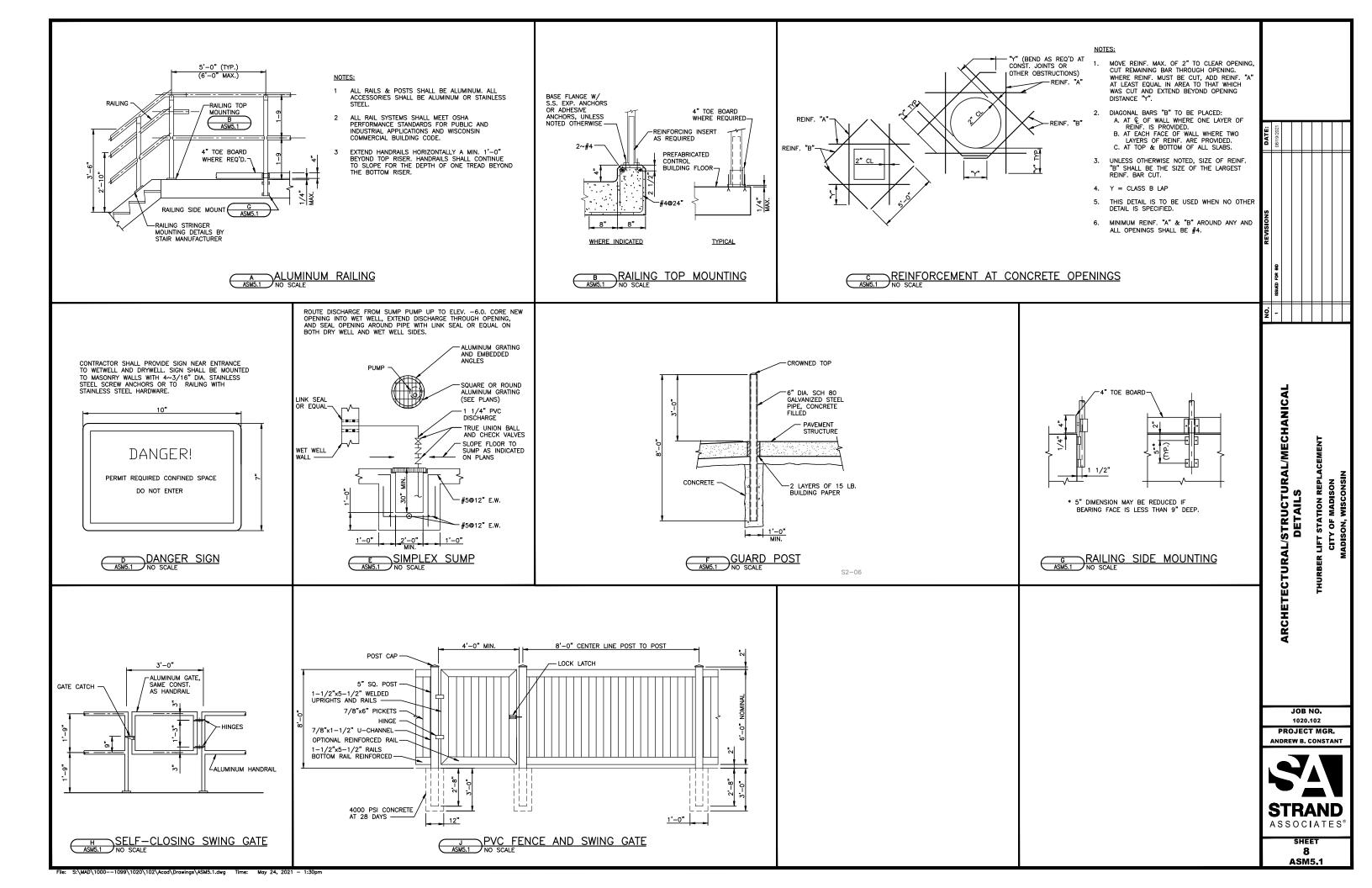
1020.102

PROJECT MGR. ANDREW B. CONSTAN



ASM1.1





							FANS	SCHED	ULE							
UNIT NO.			GREENHECK	AIRFLOW	EXT. S.P.	MOTOR SIZE				SOUND POWER			ELECTRICAL		OPERATING WEIGHT	
EF-	LOCATION	SERVICE	MODEL NO.	(CFM)	(IN. W.C.)	(HP)	FAN TYPE	MOTOR TYPE	DRIVE	(SONES)	VOLTAGE	PHASE	STARTER BY	DISCONNECT BY	(LBS.)	REMARKS
01	UPPER CHAMBER	STATION	SQ-99-VG	850	0.5	3/4	INLINE	ЕСМ	DIRECT	15.2	115	1	DIV 16	DIV 16	58	

							<u> </u>							
					VVA	ALL L	OUVER	SCH	EDUL	=				
UNIT NO.			GREENHECK	AIRFLOW	WIDTH	HEIGHT	BLADE DEPTH	MAX. APD	MAX. FACE	FREE AREA	SCR	EEN	TOP	
L-	LOCATION	SERVICE	MODEL NO.	(CFM)	(IN)	(IN)	(IN)	(IN WG)	VEL. (FPM)	(SQ. FT.)	TYPE	LOCATION	ELEVATION	REMARKS
01	UPPER CHAMBER	STATION	ESD-435	850	18	30	4	0.04	496	1.71	INSECT	INTERIOR	3'-6" AFF	

			Gl	RAVIT	Y ROOF	VEN	ITILATOR	SCHEDU	JLE		
UNIT NO.			GREENHECK	THROAT	THROAT	AIRFLOW	STATIC PRESSURE	THROAT VELOCITY	THROAT AREA	OVERALL HEIGHT	
GRV-	LOCATION	SERVICE	MODEL NO.	WIDTH (IN.)	LENGTH (IN.)	(CFM)	(IN. W.C.)	(FPM)	(SQ. FT)	(IN.)	REMARKS
01	CONTROL ROOM	EF-01	GRSR	12	12	850	0.13	1037	0.82	11.5	

	ELECTRIC HEATER SCHEDULE												
	ELECTRICAL ELECTRICAL												
UNIT NO.		Q-MARK	CAPACITY	CAPACITY									
EWH-	LOCATION	MODEL NO.	(WATTS)	(BTU)	VOLTAGE	PHASE	DISCONNECT BY	REMARKS					
01	UPPER CHAMBER	CWH3150F	1500	5115	115	1	MANUFACTURER						

	DEF	HUMIDI	FIER S	SCHEE	ULE			
					ELI	CTRICAL		
UNIT NO.	050,405	HI-E DRY	CAPACITY	AIRFLOW	VOLT405	DUAGE		DEMARKS
DH-	SERVICE	MODEL NO.	(LBS/DAY)	(CFM)	VOLTAGE	PHASE	FLA	REMARKS
1	UPPER CHAMBER	100	106	255	120	1	6.6	

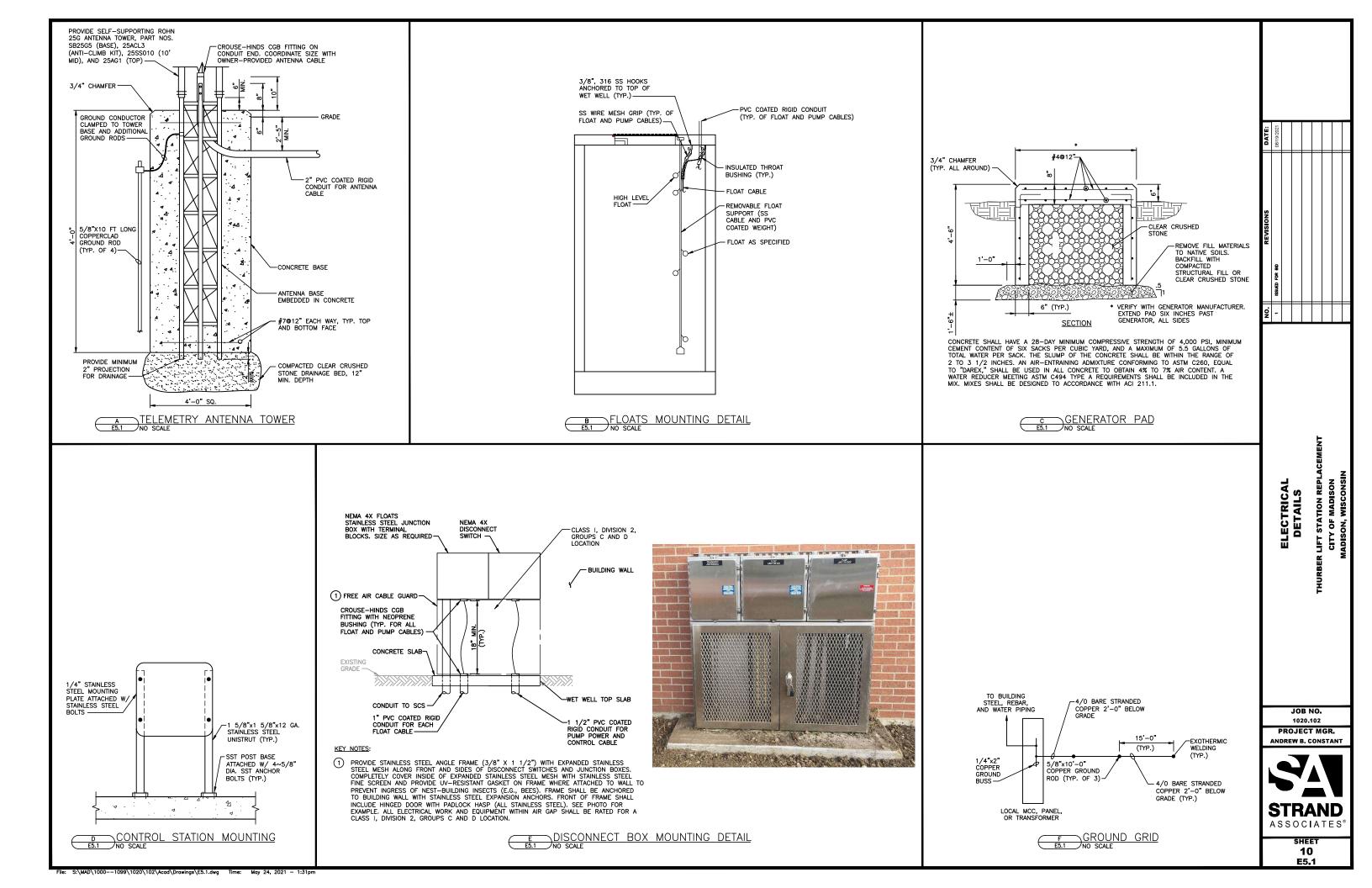
DESIGN CONDITIONS										
	BLE BUILDING CODE: NATIONAL BUILDING CODE	SUMMER EXTERIOR: 86°F DB / 75°F WB WINTER EXTERIOR: -15°F DB								
OCCUPANCY TYPE	VENTILATION	SUMMER INTERIOR (DB/WB)	WINTER INTERIOR (DB)	REMARKS						
DRY WELL	30 ACH INTERMITTENT	AMBIENT	60							

HVAC
SCHEDULES
THURBER LIFT STATION REPLACEMENT
CITY OF MADISON
MADISON, WISCONSIN

JOB NO. 1020.102 PROJECT MGR. ANDREW B. CONSTANT

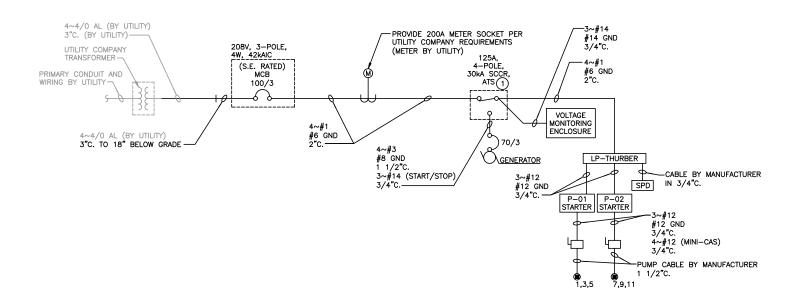


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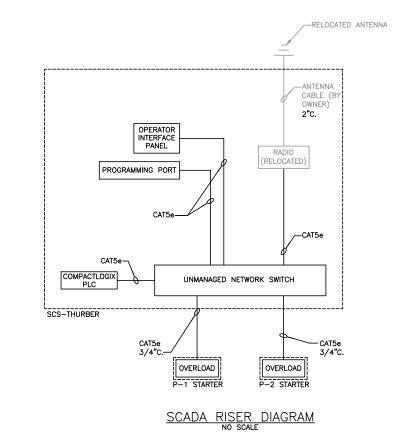


KEY NOTES:

1 PROVIDE FUSE BLOCKS IN ATS FOR WIRING TO VOLTAGE MONITORING ENCLOSURE.



ONE-LINE DIAGRAM
NO SCALE



Service: 120/208V.	2 Dh	4 colore				Englosus	: NEMA 1							C	face
	3-Phase, 4	+ wire				Enclosure	S. NEWA I						Mounting: Main Bus:		
															per
TO THE PERSON AND THE PERSON AS A PARTY OF T	tion Upper												SCIC:		(AIC
Room Number/Description	Amps	Poles	Cct. #		Phase B	Phase C		Phase B	Phase C		Poles			escriptio	on
		_	1	445			152			2	1	20	Interior Lighting		
Pump P-1	20	3	3		445			126		4	1		Exterior Lighting		
			5			445			300	6	1	20	SCS Main Power		
			7	445			500			8	1	20	Generator Battery Charge	er	
Pump P-2	20	3	9		445			759		10	1	20	Dehumidifier		
			11			445			528	12	1	20	Spare		
			13	0			528			14	1	20	Spare		
SPD	30	3	16		0			1176		16	1	20	Sump Pump		
			17			0			250	18	1	20	SCS Light/Receptable		
Interior Receptacles	20	1	19	540			100			20	- 1	20	Spare		
Exterior Receptacles	20	1	21		360			0		22	1	20	Spare		
Generator Coolant Heater	20	1	23			1500			0	24	1	20	Spare		
Electric Wall Heater	20	1	25	1438			0			26	1	-	Space		
Exhaust Fan	20	1	27		1587			0		28	1	-	Space		
Space	.=	1	29			0			0	30	1	-	Space		
Space	-	1	31	0			0			32	1		Space		
Space	-	1	33		0			0		34	1	-	Space		
Space	- 1	1	35			0			0	36	1	-	Space		
Space	-	1	37	0			0			38	-1		Space		
Space	-	1	39		0			0		40	1	-	Space		
Space	-	1	41						0	42	1	-	Space		
lotal Load per Phase per Side (VA)				2868	2837	2390	1280	2061	1078						
Total Load Phase A (VA)		4148	VA							Total Co	nnected	Load (A	4)	35	Α
Total Load Phase B (VA)		4898	VA	i						Total Co	nnected	Load +	25%	43	Α
Total Load Phase C (VA)		3468	VA	1						Spare 2	5%			11	A
Total Connected Load (VA)		12514	VA	1						Feeder	Load			54	F

FIXTURE SCHEDULE												
Fixture Type	Manufacturer(s)	Model Number	Lamp Type	Mounting	Remarks							
A	Metalux	4VT2-LD4-4-DR-UNV-L840-CD1-WL-SSL	38W LED	Ceiling								

DATE:	08/19/2021				
REVISIONS	ISSUED FOR BID				
ON	-				

ELECTRICAL
SCHEDULES AND DIAGRAMS
THURBER LIFT STATION REPLACEMENT
CITY OF MADISON
MADISON, WISCONSIN

JOB NO. 1020.102 PROJECT MGR. ANDREW B. CONSTANT

STRAND ASSOCIATES*

> SHEET 11 E6.1