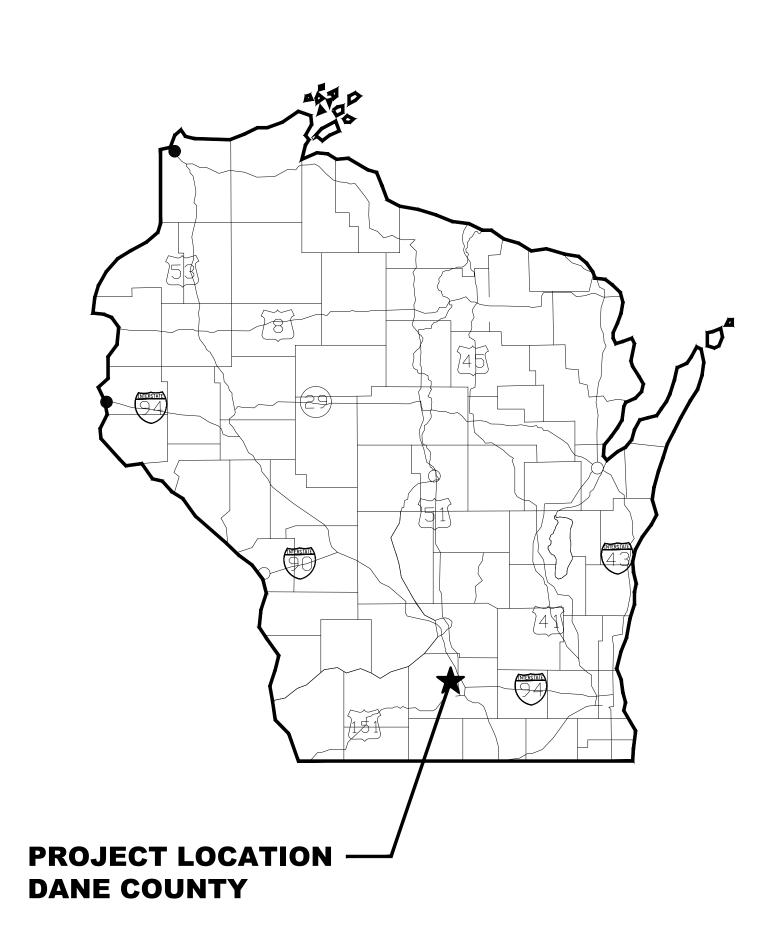
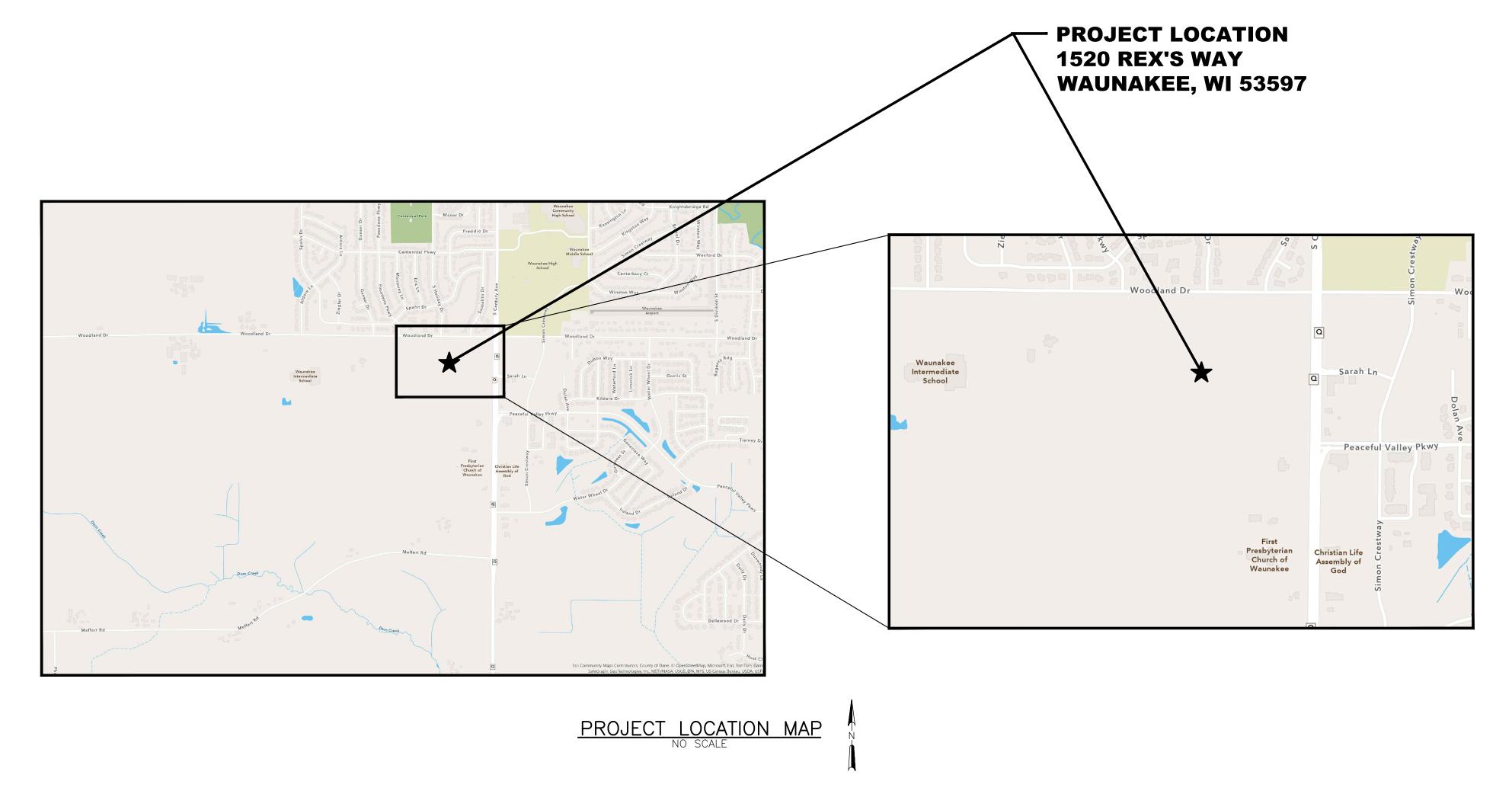
# WELL NO. 6 WELL FACILITY

**FOR THE** 

# WAUNAKEE UTILITIES WAUNAKEE, WISCONSIN





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

**CONTRACT 4-2025** 



**ISSUED FOR BID 10/24/2025** 

SHEET 1 G0.1

#### LIST OF DRAWINGS

SHEET NO.	DRAWING NO.	DRAWING TITLE
1	G0.1	TITLE SHEET, LOCATION MAP, AND LIST OF DRAWINGS
2	G0.2	DRAWING LIST
3	G0.3	STANDARD SYMBOLS - 1
4	G0.4	STANDARD SYMBOLS - 2
5	G0.5	ACCESSIBILITY GUIDELINES
6	P0.1	PLUMBING SYMBOLS AND ABBREVIATIONS
7	FP0.1	FIRE PROTECTION SYMBOLS AND ABBREVIATIONS
8	H0.1	HVAC SYMBOLS AND ABBREVIATIONS
9	G0.9	ABBREVIATIONS
10	G1.1	LIFE SAFETY PLAN AND CODE SUMMARY
11	C1.1	SITE PLAN
12	C1.2	EROSION CONTROL PLAN
13	C1.3	LANDSCAPE PLAN
14	CE1.1	ELECTRICAL SITE PLAN
15	C5.1	SITE DETAILS
16	ASM1.1	FOUNDATION PLAN
17	ASM1.2	FLOOR PLAN
18	ASM1.3	PRECAST PLANK AND ROOF FRAMING PLAN
19	ASM1.4	ROOF PLAN
20	ASM2.1	BUILDING ELEVATIONS
21	ASM3.1	BUILDING SECTIONS
22	ASM3.2	WALL SECTIONS
23	ASM4.1	ENLARGED PLANS AND ELEVATIONS
24	ASM5.1	DETAILS - 1
25	ASM5.2	DETAILS - 2
26	ASM5.3	DETAILS - 3
27	ASM6.1	ARCHITECTURAL AND STRUCTURAL SCHEDULES
28	ASM6.2	ARCHITECTURAL SCHEDULES
29	P1.1	PLUMBING PLANS
30	P5.1	PLUMBING DETAILS
31	P6.1	PLUMBING SCHEDULES
32	P7.1	PLUMBING SCHEMATICS
33	FP1.1	FIRE PROTECTION FLOOR PLAN
34	H1.1	HVAC FLOOR PLAN
35	H5.1	HVAC DETAILS
36	H6.1	HVAC SCHEDULES
37	E1.1	ELECTRICAL POWER AND SYSTEMS PLAN
38	E1.2	ELECTRICAL LIGHTING PLAN
39	E5.1	ELECTRICAL DETAILS
40	E6.1	ONE-LINE DIAGRAM AND SCADA RISER DIAGRAM
41	E6.4	MCC-6 SCHEDULE AND ELEVATION AND VFD SCHEDULE
42	E6.5	ELECTRICAL SCHEDULES

NO.

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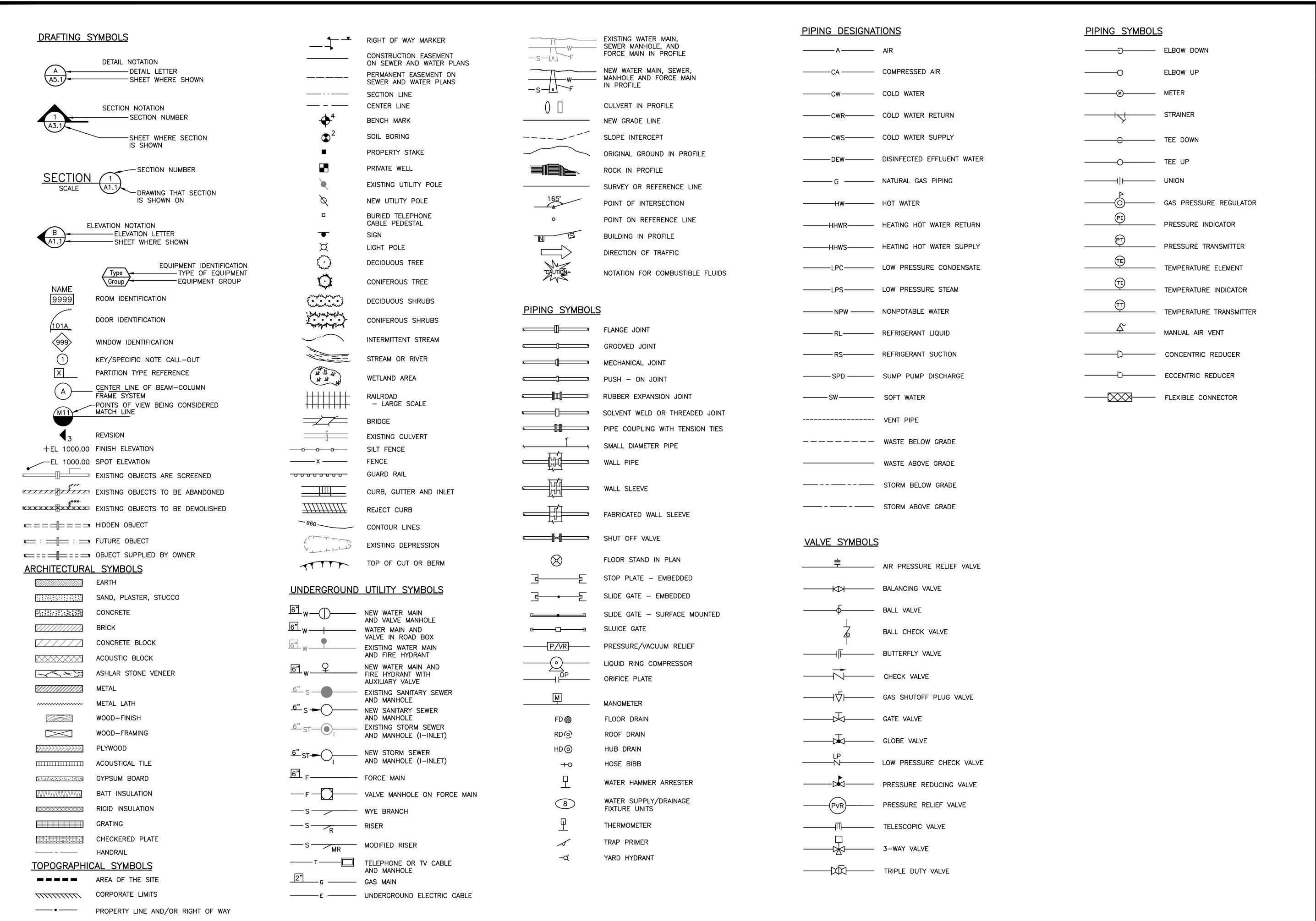
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JOB NO. 1602.175

PROJECT MGR. MIKE FORSLUND



SHEET 2 G0.2



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DATE:

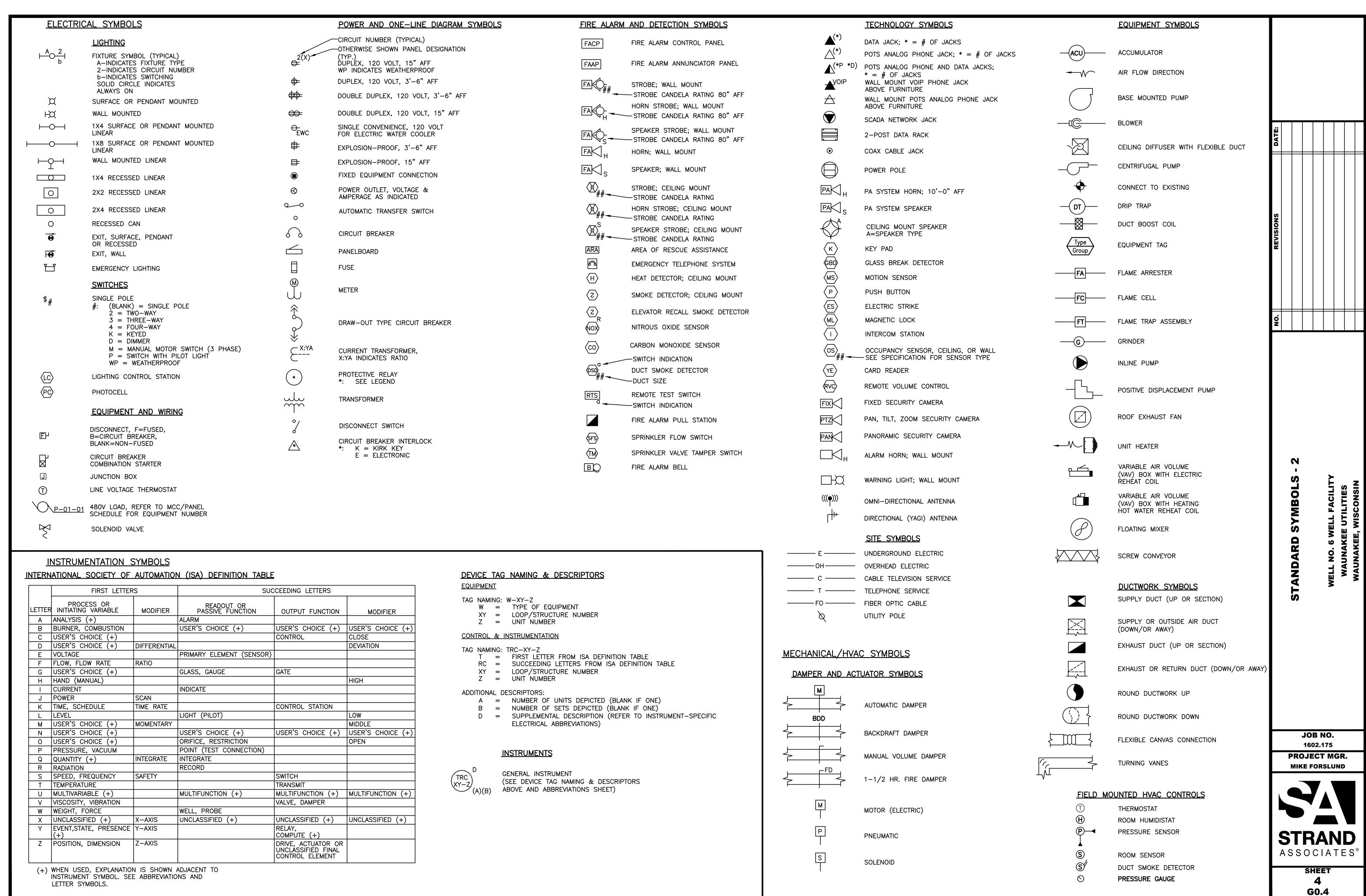
STANDARD SYMBOL

JOB NO. 1602.175

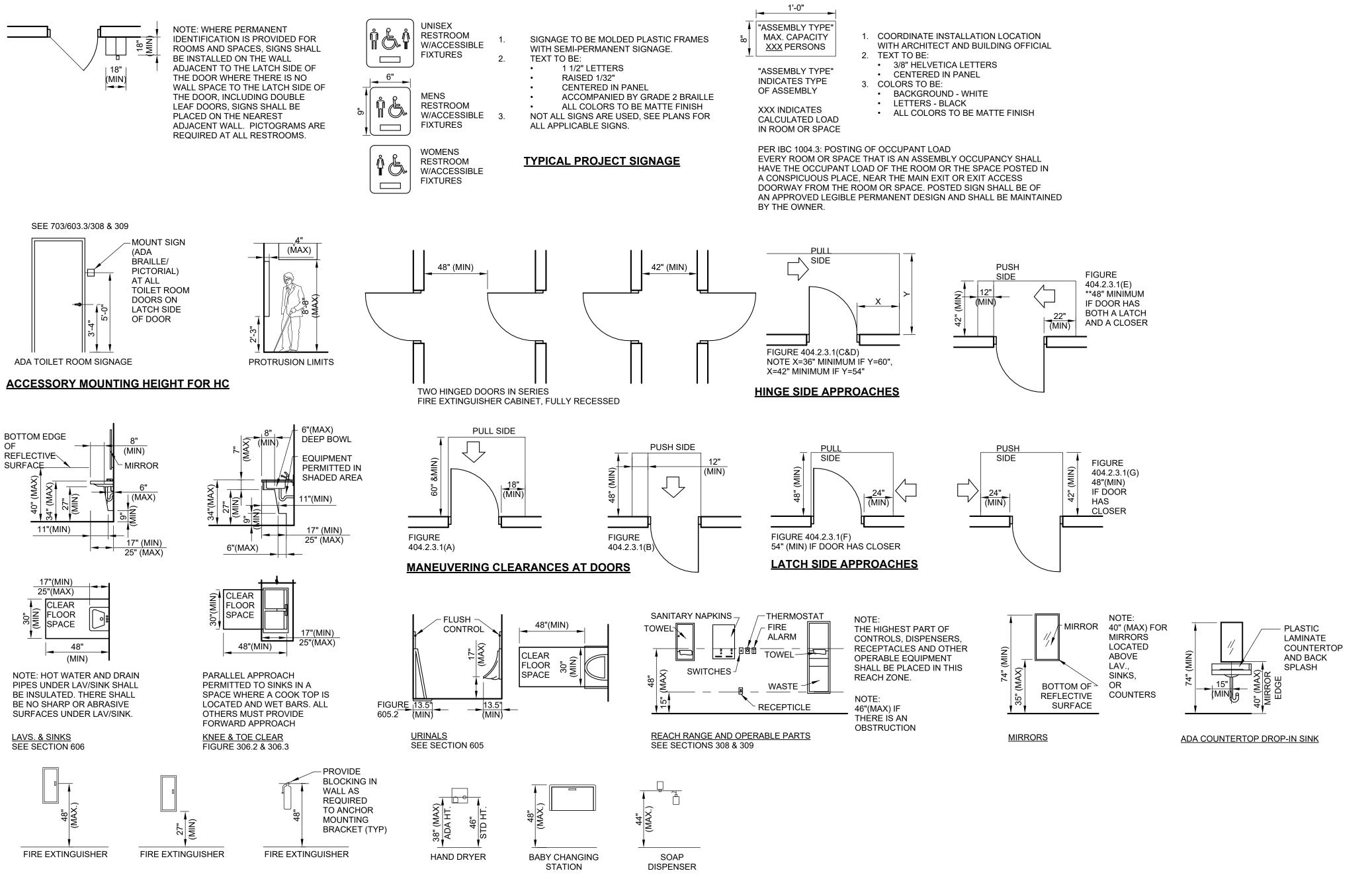
PROJECT MGR.
MIKE FORSLUND



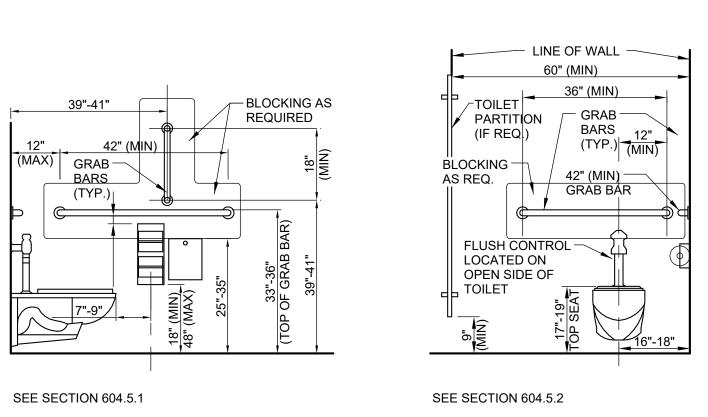
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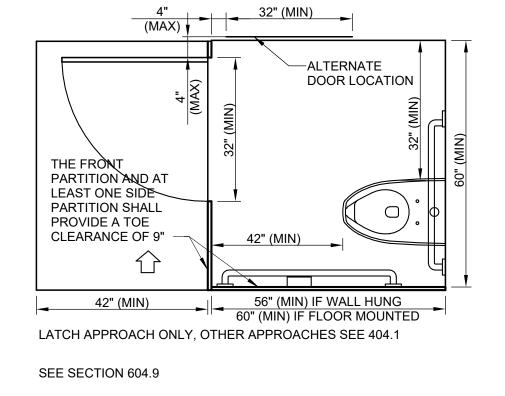


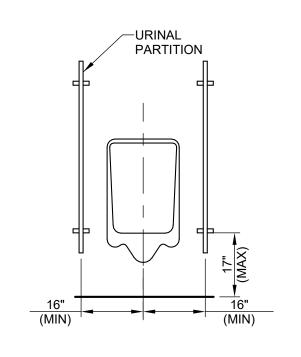
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#### TYP. TOILET ROOM A.D.A. ACCESSORY ELEVATIONS





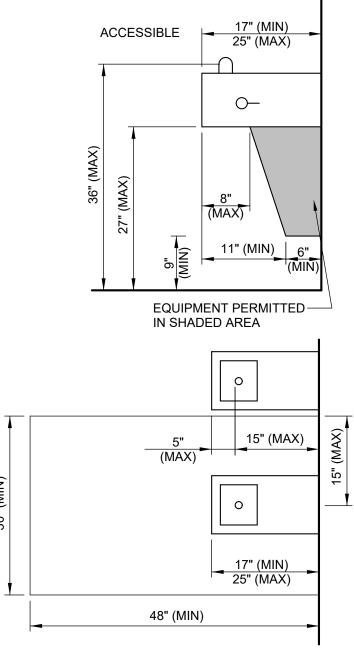


#### **GENERAL NOTES**

- THIS DRAWING IS INTENDED TO BE USED AS A GUIDE FOR CONSTRUCTABILITY PURPOSES ONLY. REFER TO ICC/ANSI A117.1-2009.
- 2. THESE DRAWINGS AND DETAILS IDENTIFY SOME BUT NOT ALL OF THE REQUIREMENTS OF THE ADAAG. EACH DETAIL MAY BE USED FOR THE GENERAL LAYOUT OF THE STRUCTURAL AND ARCHITECTURAL ENTITIES OF THE DESIGN BUT THE ACTUAL ARCHITECTURAL DIMENSIONS, LAYOUT, MECHANICAL AND ACCESSORIES LAYOUT IN THIS SET OF DOCUMENTS TAKES PRECEDENCE.

#### STANDARD MOUNTING HEIGHT NOTES

- ALL SIGNAGE SHALL MEET THE REQUIREMENTS OF ADA AND ANSI A117.1 SECTION 703.
- 2. ADA TOILET ROOM SIGNAGE SHALL BE MOUNTED WHERE INDICATED. WHERE THERE IS NO WALL SPACE ADJACENT TO LATCH SIDE OF DOOR, SIGN SHALL BE MOUNTED ON NEAREST ADJACENT WALL.
- MOUNTING LOCATION FOR SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF THE DOOR.
- 4. STANDARD MOUNTING HEIGHTS APPLY TO DRAWINGS UNLESS INDICATED OTHERWISE.
- 5. GRAB BARS SHALL BE INSTALLED PLUMB OR LEVEL.
- 6. ALL DIMENSIONS SHOWN HERE ARE TYPICAL UNLESS NOTED OTHERWISE.
- ALL FIXTURES AND ACCESSORIES AT ACCESSIBLE ROOMS ARE TO MEET THE MOST CURRENT ACCESSIBLE CODE REQUIREMENTS.
- 8. SEE ELECTRICAL AND PLUMBING DRAWINGS FOR FURTHER MOUNTING HEIGHT INFORMATION
- 9. SEE ENLARGED TOILET ROOM PLANS FOR A.D.A. ACCESSIBLE TOILET FIXTURES CLEAR SPACE REQUIREMENTS.



SEE SECTION 602

**DRINKING FOUNTAIN** 

JOB NO. 1602.175 PROJECT MGR. MIKE FORSLUND

C



SHEET 5 G0.5

A.D.A. WATER CLOSETS AND TOILET COMPARTMENTS

Users\robs\Documents\Waunakee Well 6-1602.175-AS\_R24\_Rob.Spiering.rvt

#### **TAGS GENERAL NOTES: PLUMBING ABBREVIATIONS** (APPLICABLE TO ALL PLUMBING DRAWINGS): KEY/SPECIFIC NOTE CALL-OUT COORDINATE WITH OTHER TRADES TO ELIMINATE ANY **BLIND FLANGE** CONFLICTS BETWEEN PIPING, DUCTWORK, ELECTRICAL WORK, REVISION NUMBER CALL-OUT CATCH BASIN COMPRESSED AIR CA FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPES SIZES NOT CD CONDENSATE DRAIN WATER SUPPLY/DRAINAGE SHOWN ON FLOOR PLANS, REFER TO DETAILS, ISOMETRICS AND CENTERLINE CL FIXTURE UNITS SCHEDULES. CI CAST IRON CKV CHECK VALVE 3. PIPE ROUTING IS SHOWN IN APPROXIMATE LOCATIONS. CO CLEAN OUT PLUMBING CONTRACTOR SHALL COORDINATE WITH CONDENSATE COND MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS FOR CHLORINATED POLYVINYL CHLORIDE VERTICAL CHASE AND WALL REQUIREMENTS. CIRCUIT SETTER **PLUMBING SYSMBOLS** CW COLD WATER PIPE VERIFY PLUMBING EQUIPMENT CONNECTION REQUIREMENTS. FD Ø FLOOR DRAIN DRAIN PLUMBING CONTRACTOR SHALL PROVIDE ACCESSIBILITY TO ALL DOUBLE CHECK BACKFLOW PREVENTER VALVES AND CONTROL DEVICES. FURNISH ACCESS PANELS RD ROOF DRAIN WHERE SHOWN OR REQUIRED FOR ACCESS TO ALL CONCEALED DRINKING FOUNTAIN VALVES OR OTHER EQUIPMENT FURNISHED UNDER THIS DRAINAGE FIXTURE UNIT HD O HUB DRAIN CONTRACT WHERE NO OTHER MEANS IS PROVIDED. DUCTILE IRON DOWN SPOUT FCO FLOOR CLEANOUT 7. PLUMBING CONTRACTOR TO SEE ARCHITECTURAL PLANS FOR CHANGES IN CEILING HEIGHTS. EEWS EMERGENCY EYEWASH AND SHOWER CB (/////) CATCH BASIN EW EYEWASH 8. DRAWING INTENT IS TO INDICATE GENERAL ARRANGEMENT, ELECTRIC WATER COOLER DESIGN AND INTENT OF WORK, AND IS PARTIALLY EQUIPMENT CONNECTION DIAGRAMMATIC. DRAWING SHALL NOT BE SCALED. CHECK VALVE CONTRACTOR SHALL PROVIDE EQUIPMENT AND INSTALLATION FLOOR CLEAN OUT →○ HOSE BIBB TO MEET APPLICABLE CODE REQUIREMENTS IN CONJUNCTION FLOOR DRAIN WITH THESE DRAWING DOCUMENTS AND ASSOCIATED SPECIFICATIONS. GARBAGE DISPOSAL THERMOMETER 10. PROVIDE A MINIMUM OF 1" CLEAR BETWEEN PIPING AND WALL TO HOSE BIBB ALLOW FOR CLEANING. **HUB DRAIN** HIGH DENSITY POLYETHYLENE 11. SEE SCHEDULES FOR FIXTURE INFORMATION. HOSE REEL 12. SEE SCHEMATICS FOR PIPING DRAIN FIXTURE UNITS. HIGH WATER LEVEL HOT WATER PIPE 13. EQUIPMENT SHOWN DASHED IN BACKGROUNDS IS FUTURE HOT WATER RETURN EQUIPMENT WHICH WILL NOT BE INSTALLED AS PART OF THIS PROJECT. INVERT ELEVATION INDIRECT WASTE PIPE 14. PROVIDE ISOLATION VALVES AT ALL BRANCH TAKEOFFS FROM LAVATORY LAUNDRY TRAY 15. UNLESS OTHERWISE INDICATED, SLOPE ALL DRAIN, WASTE, AND VENT PIPING AS FOLLOWS: MOP SERVICE BASIN 3" AND SMALLER: MINIMUM 1/4" PER FOOT. LARGER THAN 3": MINIMUM 1/8" PER FOOT. MANHOLE 16. VENT PIPING IN FINISHED AREAS SHOULD BE CONCEALED AND PUMP NOT EXPOSED. POINT OF CONNECTION PRESSURE REDUCING VALVE PRV PVC POLYVINYL CHLORIDE QUICK CONNECT **ROOF DRAIN** RO CONCENTRATE REDUCED ZONE BACKFLOW PREVENTER RZBP SD SHOWER DRAIN SEWAGE EJECTOR SHOWER SUMP PUMP SERVICE SINK SS STAINLESS STEEL SV SOLENOID VALVE TD TRENCH DRAIN TEMPERED MIXING VALVE TOP TOP OF PIPE URINAL VENT VACUUM BREAKER VITRIFIED CLAY PIPE

MBOLS AND ABBREVIATIONS

JOB NO. 1602.175 PROJECT MGR. MIKE FORSLUND

PLUMBING

VENT THRU ROOF

WASTE PIPE WALL CLEANOUT

WATER CLOSET

WD WASH DOWN STATION
WH WATER HEATER
WS WATER SOFTENER
WSFU WATER SUPPLY FIXTURE UNIT

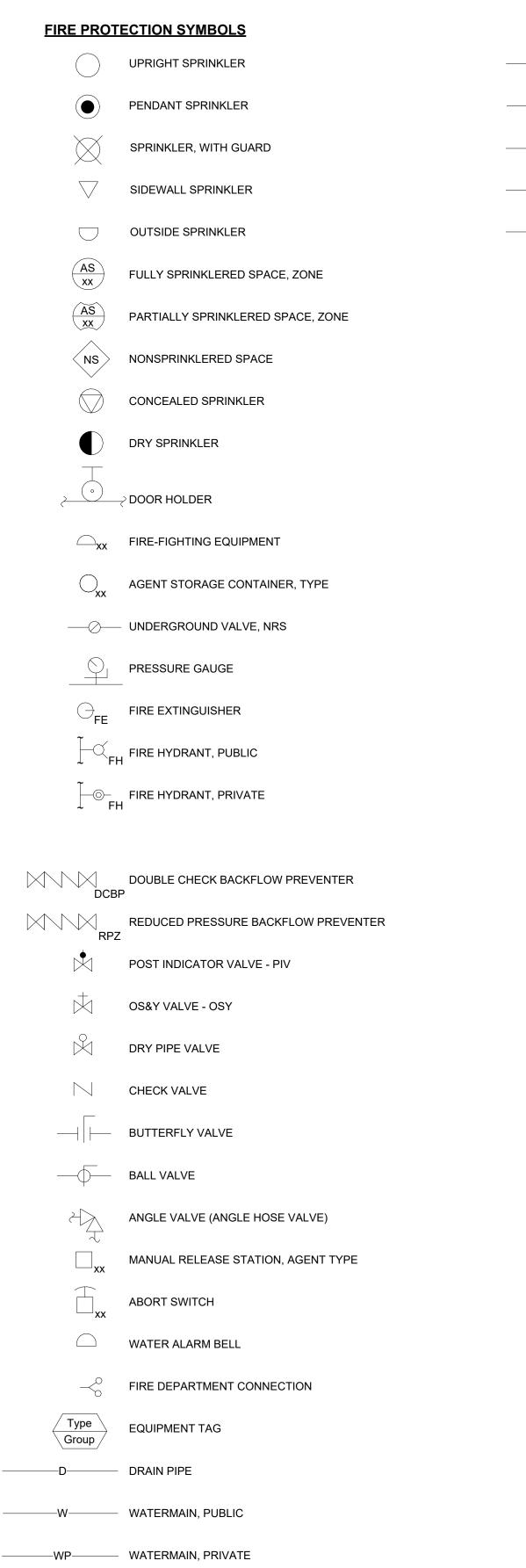
VTR

WCO

WC



SHEET 6



F/SP——FIRE SPRINKLER PIPING

—D——— DRAIN PIPE WATERMAIN, PUBLIC -WP----- WATERMAIN, PRIVATE — FIRE SPRINKLER PIPING ———DP——— DRY SPRINKLER PIPING TEE DOWN ——— TEE UP ELBOW DOWN CONCENTRIC REDUCER ECCENTRIC REDUCER **BRANCH DOWN** PRESSURE SWITCH (FS) FLOW SWITCH VALVE WITH TAMPER SWITCH WALL FIRE PUMP TEST HEADER → DISCHARGE NOZZLE, CEILING, AGENT TYPE → O → DISCHARGE NOZZLE, BELOW FLOOR, AGENT TYPE PREDISCHARGE WARNING BELL, SYSTEM TYPE FIRE VALVE CABINET FIRE DEPARTMENT VALVE FIRE HYDRANT WITH AUXILIARY VALVE

FIRE DEPARTMENT CONNECTION

FIRE PROTECTION GENERAL NOTES (APPLICABLE TO ALL PLUMBING DRAWINGS):

- 1. COORDINATE WITH OTHER TRADES TO ELIMINATE ANY CONFLICTS BETWEEN PIPING, DUCTWORK, ELECTRICAL WORK, ETC.
- 2. FIRE PROTECTION CONTRACTOR SHALL PROVIDE AN AUTOMATIC SPRINKLER SYSTEM TO PROTECT ALL AREAS OUTLINED ON THE
- 3. ALL WORK SHALL BE COORDINATED AMONG ALL INDIVIDUAL CONTRACTORS BEFORE ANY WORK IS PERFORMED.
- 4. VERIFY ALL CEILING HEIGHTS AT SITE PRIOR TO INSTALLATION.
- 5. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CEILINGS AND CEILING TYPES
- 6. PIPE ROUTING IS SHOWN IN APPROXIMATE LOCATIONS.
- 7. SPRINKLER CONTRACTOR SHALL PERFORM WATER FLOW TEST AT FIRE HYDRANT PRIOR TO FINAL SPRINKLER DESIGN.
- 8. FIRE PROTECTION HYDRAULIC CALCULATIONS FOR AUTOMATIC SPRINKLER SYSTEM SHALL INCORPORATE MINIMUM 10 PSI SAFETY FACTOR. SIZE PIPING IN ACCORDANCE WITH NFPA 13.
- PRESSURE TEST OF THE AUTOMATIC SPRINKLER SYSTEM SHALL BE WITNESSED BY THE FIRE DEPARTMENT AND OWNERS INSURANCE AGENCY UNLESS SPECIFICALLY WAIVED. TWO (2) WEEKS WRITTEN ADVANCE NOTICE OF TEST SHALL BE GIVEN.
- 10. ALL LEAKAGE EVIDENCED BY TESTING SHALL BE REPAIRED BY TIGHTENING OR REPLACING FITTING OR EQUIPMENT ONLY.
- 11. ALL REPAIRS SHALL BE AT THE CONTRACTORS EXPENSE. CAULKING, WRAPPING OR OTHER MEANS OF REPAIR SHALL NOT BE PERMITTED.
- 12. ALL DRAIN LINES INCLUDING THE DRAIN FOR THE AUTOMATIC SPRINKLER SYSTEM INSPECTORS TEST VALVE AND THE AUTOMATIC SPRINKLER SYSTEM MAIN DRAIN SHALL BE GALVANIZED STEEL.
- 13. SPRINKLER COVERAGE SHALL INCLUDE AREAS BELOW ALL OBSTRUCTIONS OVER 4'-0" WIDE (I.E. DUCTWORK, STAIRS, MEZZANINES, TANKS, ETC.).
- 14. ALL PIPE PENETRATIONS THROUGH FLOORS OR WALL SHALL BE SLEEVED AND SEALED TO MAKE WATERTIGHT AND MAINTAIN FIRE RATING.
- 15. DRAWING INTENT IS TO INDICATE GENERAL ARRANGEMENT, DESIGN AND INTENT OF WORK, AND IS PARTIALLY DIAGRAMMATIC. DRAWING SHALL NOT BE SCALED.
- 16. ALL VALVE SUPERVISORY SWITCHES AND WATER FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.
- 17. THE COMPLETE INSTALLATION AND TESTING OF THE AUTOMATIC SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA.
- 18. CONTRACTOR SHALL PROVIDE ACCESSIBILITY TO ALL VALVES AND CONTROL DEVICES. FURNISH ACCESS PANELS WHERE SHOWN OR REQUIRED FOR ACCESS TO ALL CONCEALED VALVES OR OTHER EQUIPMENT FURNISHED UNDER THIS CONTRACT WHERE NO OTHER MEANS IS PROVIDED.
- 19. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL REQUIRED PIPING OFFSETS FOR COMPLETE SYSTEM INSTALLATION.
- 20. SEE SPECIFICATION SECTION 21 00 00 FOR MORE INFORMATION.

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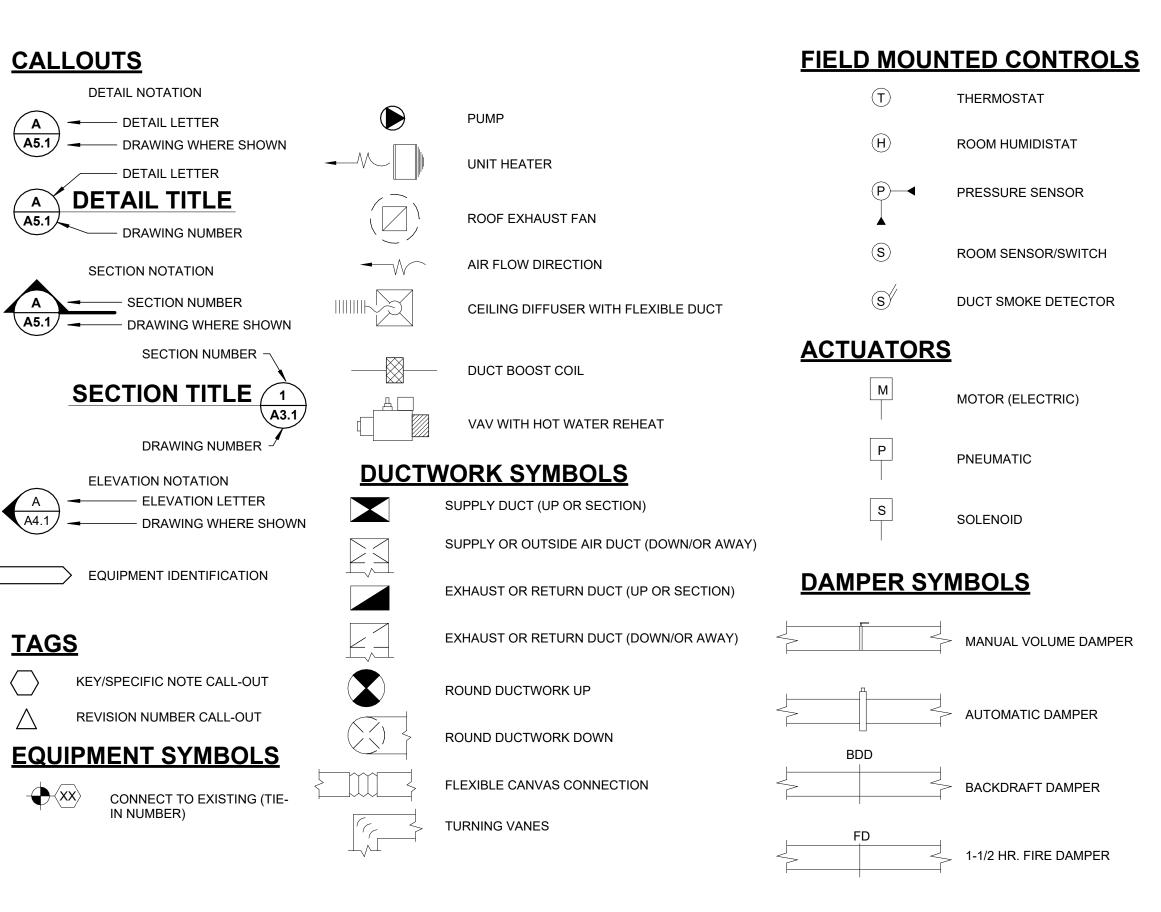
TECTION SYMBOLS AND ABBREVIA
WELL NO. 6 WELL FACILITY

JOB NO. 1602.175 PROJECT MG

PROJECT MGR. MIKE FORSLUND



SHEET 7 FP0.1



- CONTRACT DOCUMENT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- 2. ALL WORK SHALL BE COMPATIBLE WITH BUILDING CONSTRUCTION CLASS AND OCCUPANCY.
- 3. COORDINATE WITH OTHER TRADES TO ELIMINATE CONFLICTS BETWEEN PIPING, DUCTWORK, ELECTRICAL WORK, ETC.
- 4. LOCATE ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES IN ACCESSIBLE LOCATIONS.
- 5. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
- 6. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- 7. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED SHOP DRAWINGS.
- 8. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES AND OTHER INSTRUMENTS IN ACCESSIBLE LOCATIONS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CEILINGS AND CEILING TYPES.
- 10. ALL PIPE LOCATIONS AND ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPE ROUTING AND ELEVATIONS PRIOR TO FABRICATION AND INSTALLATION.
- 11. CONTRACTOR SHALL COORDINATE ROOFING AND FLASHING REQUIREMENTS FOR ALL ROOF AND IMP CEILING PENETRATIONS WITH GENERAL CONTRACTOR.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DUCTWORK AND PIPING OFFSETS REQUIRED FOR COMPLETE SYSTEM INSTALLATION.
- 13. COORDINATE AND PROVIDE ALL DUCTWORK TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS. FIELD VERIFY AND COORDINATE ALL DUCTWORK AND PIPING DIMENSIONS PRIOR TO FABRICATION.
- 4. DUCT AND EQUIPMENT PENETRATIONS SHALL BE COORDINATED AS TO NOT INTERFERE WITH ROOF STRUCTURE. ALL PENETRATIONS SHALL BE FIELD COORDINATED WITH GENERAL CONTRACTOR.

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WELL NO. 6 WELL FACILITY

EVIATIONS

JOB NO. 1602.175 PROJECT MGR.

MIKE FORSLUND

STRAND ASSOCIATES

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GENERAL	EQUIPMENT ABBREVIATIONS	RDT	ROTARY DRUM THICKENER	SB	SODIUM BISULFITE	VB	VACUUM BREAKER	GUH	GAS UNIT HEATER	GRS	GALVANIZED RIGID STEEL	WD	HIGH PRESSURE WASH DOWN
AC	AIR COMPRESSOR	RDTP	ROTARY DRUM THICKENER FEED PUMP	SCM	SCUM	VCP	VITRIFIED CLAY PIPE	HC	HEATING COIL	HACR	HEATING AND AIR CONDITIONING RATED	WL	WET LOCATION
										HP	HORSEPOWER	WP	WEATHERPROOF
ACU	ACCUMULATOR	RM	RAPID MIXER	SCMD	SCUM DECANT	VTR	VENT THRU ROOF	НР	HEAT PUMP			•••	
ADT	AUTOMATIC DRIP TRAP	SA	SAMPLER	SE	SECONDARY EFFLUENT	wco	WALL CLEANOUT	HRP	HEAT RECOVERY PUMP	HV	HIGH VOLTAGE	XFMR	TRANSFORMER
AFT	AUTOMATIC FILTER	SBFP	SODIUM BISULFITE FEED PUMP	SH	SODIUM HYPOCHLORITE	WC	WATER CLOSET	HU	HUMIDIFIER	HVAC	HEATING, VENTILATING, & AIR CONDITIONING	XP	EXPLOSION PROOF
AOV	AIR OPERATED VALVE	SBST	SODIUM BISULFITE STORAGE TANK	SL	SLUDGE	WH	WATER HEATER	HUH	HOT WATER UNIT HEATER	HZ	HERTZ	Υ	WYE
AM	ANOXIC MIXER	SCMP	SCUM PUMP	SPD	SUMP PUMP DISCHARGE	ws	WATER SOFTENER	HWP	HOT WATER PUMP	IG	ISOLATED GROUND		
AST	AUTOMATIC STRAINER	scw	SCREENINGS WASHER	SSM	SECONDARY SCUM	WSFU	WATER SERVICE FIXTURE UNIT	нтх	HEAT EXCHANGER	IMC	INTERMEDIATE METAL CONDUIT	INSTRU	MENT-SPECIFIC ELECTRICAL ABBREVIATIONS
BSLP	BLENDED SLUDGE PUMP	SEJ	SEWAGE EJECTOR	ST	STORM SEWER			ICF	INDUSTRIAL CEILING FAN	JB	JUNCTION BOX	Α	AIR FLOW
В	BLOWER	SG	SLIDE GATE	STC	STRUVITE CHEMICAL	GENER#	L/HVAC ABBREVIATIONS	IR	INFRARED HEATER	KCMIL	ONE THOUSAND CIRCULAR MILS	ALT	ALTERNATOR
ВС	BRIDGE CRANE	SHFP	SODIUM HYPOCHLORITE FEED PUMP	SW	SERVICE WATER	ACH	AIR CHANGES PER HOUR		LOUVER	ко	KNOCKOUT	BF	BUILDING FLOODING
										KVA	KILOVOLT AMPERES	БГ	
BFP	BELT FILTER PRESS	SHST	SODIUM HYPOCHLORITE STORAGE TANK	SWS	SEAL WATER SUPPLY	AFF	ABOVE FINISHED FLOOR	MAU -	MAKE-UP AIR UNIT	KVAR			CAPACITANCE
BFPFP	BFP FEED PUMP	SLG	SLUICE GATE	TE	TERTIARY EFFLUENT	ALT	ALTERNATE	Р	PUMP		KILOVOLT AMPERES REACTIVE	CA	CHLORINE ANALYZER
BFV	BUTTERFLY VALVE	SP	SUMP PUMP	TFR	THERMAL FLUID RETURN	AP	ACCESS PANEL	PWP	PROCESS WATER PUMP	KW	KILOWATT	CH4	METHANE
BLP	BIOSOLIDS LOADING PUMP	SRT	SILOXANE REMOVAL TANK	TFS	THERMAL FLUID SUPPLY	BTU	BRITISH THERMAL UNIT	RF	RETURN FAN	LP	LIGHTING PANEL	CON	CONDUCTANCE
BLR	BOILER	SSC	SCREENINGS SCREW CONVEYOR	TSL	THICKENED SLUDGE	втин	BRITISH THERMAL UNIT PER HOUR	RG	RETURN GRILLE	LTG	LIGHTING	CS-1	CONSTANT (SINGLE) SPEED
ВР	BOOSTER PUMP	STCP	STRUVITE CHEMICAL PUMP	TWAS	THICKENED WASTE ACTIVATED SLUDGE	CFM	CUBIC FEET PER MINUTE	RR	REGISTER	LV	LOW VOLTAGE	CS-2	CONSTANT (TWO) SPEED
BSLMP	BLENDED SLUDGE MIXING PUMP	STG	STOP GATE	v	VENT	CLG	CEILING	RTU	ROOFTOP UNIT	MATV	MASTER ANTENNA TELEVISION	D	DENSITY
BSLP	BLENDED SLUDGE PUMP	STR	STRAINER	w	POTABLE WATER	COND	CONDENSATE	SD	SUCTION DIFFUSER	мс	METAL CLAD	DISC	DISCONNECT SWITCH
BSTM	BIOSOLIDS STORAGE MIXER	sv	SOLENOID VALVE	WAS	WASTE ACTIVATED SLUDGE	DAT	DISCHARGE AIR TEMPERATURE	SF	SUPPLY FAN	MCC	MOTOR CONTROL CENTER		DISSOLVED OXYGEN
				_				O.		МСВ	MAIN CIRCUIT BREAKER	DO	
ВТР	BIOSOLIDS TRANSFER PUMP	SWP	SCREENINGS WASHER/PRESS	WML	WASTE MIXED LIQUOR	DB	DRY BULB TEMPERATURE	SG	SUPPLY GRILLE			DOU	DOWN-OFF-UP SELECTOR SWITCH
BWP	BACKWASH PUMP	TV	TELESCOPING VALVE	W3	DISINFECTED EFFLUENT WATER	DDC	DIRECT DIGITAL CONTROL	SR	SUPPLY REGISTER	MCCB	MOLDED CASE CIRCUIT BREAKER	DP	DIFFERENTIAL PRESSURE
CENT	CENTRIFUGE	TWASP	TWAS PUMP			DG	DOOR GRILLE	ST	STEAM TRAP	MCM	THOUSAND CIRCULAR MILS	ESPB	EMERGENCY STOP PUSHBUTTON
CNTP	CENTRATE PUMP	UV	ULTRAVIOLET DISINFECTION	PLUME	ING ABBREVIATIONS	DX	DIRECT EXPANSION	SUH	STEAM UNIT HEATER	MCP	MOTOR CIRCUIT PROTECTOR	ESPC	EMERGENCY STOP PULLCORD
CENTP	CENTRIFUGE FEED PUMP	WASP	WAS PUMP	AEW	APRON END WALL	EA	EXHAUST AIR	TCP	TEMPERATURE CONTROL PANEL	MDP	MAIN DISTRIBUTION PANELBOARD	ETM	ELAPSED TIME METER
СР	CHEMICAL PUMP			BF	BLIND FLANGE	EAT	ENTERING AIR TEMPERATURE	TG	TRANSFER GRILLE	MISC	MISCELLANEOUS	F	BALL FLOAT
СОМР	COMPRESSOR	FLUID A	ABBREVIATIONS	CA	COMPRESSED AIR	EL	ELEVATION	UH	UNIT HEATER	MLO	MAIN LUGS ONLY	FL	FLANGE-MOUNTED
CON	CONVEYOR	Λ	AIR	СВ	CATCH BASIN	ESP	EXTERNAL STATIC PRESSURE	UV	UNIT VENTILATOR	MO	MOTOR OPERATED	FS	FAST-SLOW SELECTOR SWITCH
		A BOY								MTD	MOUNTED		
DBC	DEWATERED BIOSOLIDS CONVEYOR	вох	BIOXIDE	CD	CONDENSATE DRAIN	EWT	ENTERING WATER TEMPERATURE	VAV	VARIABLE AIR VOLUME BOX			FOR	FORWARD-OFF-REVERSE SELECTOR SWITCH
DCP	DECANT PUMP	BSL	BLENDED SLUDGE	CI	CAST IRON	FC	FAIL CLOSED	VD	VOLUME DAMPER	MTG	MOUNTING	GD	GAS DETECTION
DEWP	DISINFECTED EFFLUENT PUMP	BWW	BACKWASH WATER	со	CLEAN OUT	FLA	FULL LOAD AMPS	VFD	VARIABLE FREQUENCY DRIVE	MTS	MANUAL TRANSFER SWITCH	н	HORN
DP	DRAINAGE PUMP	CA	COMPRESSED AIR	COND	CONDENSATE	FO	FAIL OPEN	WSHP	WATER SOURCE HEAT PUMP	MV	MEDIUM VOLTAGE	H2S	HYDROGEN SULFIDE
DRLP	DIGESTER RECIRCULATION PUMP	CNT	CENTRATE	CPVC	CHLORINATED POLYVINYL CHLORIDE	FPI	FINS PER INCH	хт	EXPANSION TANK	MW	MICROWAVE OR MEGAWATT	HLOA	HIGH-LOW-OFF-AUTO SELECTOR SWITCH
DSLMP	DIGESTER MIXING PUMP	CDG	COMPRESSED DIGESTER GAS	CW	COLD WATER	FPM	FEET PER MINUTE			N	NEUTRAL	HLOR	HIGH-LOW-OFF-REVERSE SELECTOR SWITCH
DSLMP	DIGESTER MIXING FUMP		CHLORINE SOLUTION	D	DRAIN	FT	FEET	ELFCTR	ICAL ABBREVIATIONS	NA.	NOT APPLICABLE	HOA	HAND-OFF-AUTO SELECTOR SWITCH
		CLS		J				<u></u>				nuA	
DT	DRIP TRAP	CNT	CENTRATE	DCBP	DOUBLE CHECK BACKFLOW PREVENTER	GA	GAUGE	<b>A</b>	AMPERE	NC	NORMALLY CLOSED	L	LIMIT
DOW	DOWNWARD OPENING WEIR GATE	CW	COLD WATER	DCW	DOMESTIC COLD WATER	GPM	GALLONS PER MINUTE	AF	AMPERE FRAME	NAC	NOTIFICATION APPLIANCE CIRCUIT PANEL	LOR	LOCAL-OFF-REMOTE SELECTOR SWITCH
EFC	EXCESS FLOW CLARIFIER	CWR	CHILLED WATER RETURN	DHW	DOMESTIC HOT WATER	LAT	LEAVING AIR TEMPERATURE	AFD	ADJUSTABLE FREQUENCY DRIVE	NEC	NATIONAL ELECTRIC CODE	LOS	LOCKOUT STOP
EFP	EXCESS FLOW PUMP	cws	CHILLED WATER SUPPLY	DF	DRINKING FOUNTAIN	LWT	LEAVING WATER TEMPERATURE	AFF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT	М	MAGNETIC
EFSP	EXCESS FLOW SOLIDS PUMP	D	DRAIN	DFU	DRAINAGE FIXTURE UNIT	МВН	THOUSANDS OF BTU PER HOUR	AFG	ABOVE FINISHED GRADE	NL	NIGHT LIGHT	MST	MOISTURE
EP	EFFLUENT PUMP	DEW	DISINFECTED EFFLUENT WATER	DI	DUCTILE IRON	МС	MECHANICAL CONTRACTOR	AHJ	AUTHORITY HAVING JURISDICTION	NM	NONMETALLIC	MY	MOTOR PROTECTION RELAY
								AHU	AIR HANDLING UNIT	NO	NORMALLY OPEN		
FC	FINAL CLARIFIER	DG	DIGESTER GAS	EEWS	EMERGENCY EYEWASH SHOWER	NA	NOT APPLICABLE					O/C	OVERCURRENT
FCD	FINAL CLARIFIER DRIVE	DIV	DIVERSION	EW	EYEWASH	NC	NORMALLY CLOSED	AIC	AMPERE INTERRUPTING CAPACITY	NSF	NATIONAL SANITARY FOUNDATION	O/L	OVERLOAD
FEP	FINAL EFFLUENT PUMP	DRL	DIGESTER RECIRCULATION	EWC	ELECTRIC WATER COOLER	NO	NORMALLY OPEN	AL	ALUMINUM	NTS	NOT TO SCALE	O/T	OVERTEMPERATURE
FILT	FILTER	DS	DIGESTER SUPERNATANT	FCO	FLOOR CLEAN OUT	NPT	NATIONAL PIPE THREAD	AT	AMPERE TRIP	ОСВ	OIL CIRCUIT BREAKER	ос	OPEN-CLOSE SELECTOR SWITCH
FM	FLOW METER	DSL	DIGESTED SLUDGE	FD	FLOOR DRAIN	NTS	NOT TO SCALE	ATS	AUTOMATIC TRANSFER SWITCH	OL	OVERLOAD	OCA	OPEN-CLOSE-AUTO SELECTOR SWITCH
FO	FERMENTER OVERFLOW	DSL ME	DIGESTER SLUDGE MIXER DISCHARGE	FOR	FUEL OIL RETURN	OA	OUTSIDE AIR	A/V	AUDIO VISUAL	OIP	OPERATOR INTERFACE PANEL	00	ON-OFF SELECTOR SWITCH
						OC	ON CENTER	AWG	AMERICAN WIRE GAUGE	ОТ	OVERTEMP	OP	
FRS	FERMENTED SLUDGE	DSL MS		FOS	FUEL OIL SUPPLY					•			OXYGEN PURITY
FT	FLAME TRAP	DWB	DEWATERED BIOSOLIDS	НВ	HOSE BIBB	OV	OUTLET VELOCITY	BLDG	BUILDING	PR -	PAIR	ORP	OXIDATION REDUCTION POTENTIAL
GBT	GRAVITY BELT THICKENER	EF	EXCESS FLOW	HD	HUB DRAIN	PD	PRESSURE DROP	С	CONDUIT	Р	POLE	Р	PADDLE
GC	GRIT CLASSIFIER	FC	FERRIC CHLORIDE	HDPE	HIGH DENSITY POLYETHYLENE	PSI	POUNDS PER SQUARE INCH	CAT	CATALOG	PB	PULL BOX	рН	рН
GFM	GAS FLOW METER	EFS	EXCESS FLOW SOLIDS	HHGR	HEATING HOT GLYCOL RETURN	PSIG	POUNDS PER SQUARE INCH GAUGE	CATV	CABLE TELEVISION	PC	PULL CORD	PO4	ORTHOPHOSPHATE
GCS	GAS COMPRESSOR SKID	FE	FINAL EFFLUENT	HHGS	HEATING HOT GLYCOL SUPPLY	RA	RETURN AIR	СВ	CIRCUIT BREAKER	PH	PH SENSOR	РОТ	POTENTIOMETER
GP	GRIT PUMP	F	FORCE MAIN	HR	HOSE REEL	RPM	REVOLUTIONS PER MINUTE	ссту	CLOSED CIRCUIT TELEVISION	ø	PHASE	PR	PROXIMITY
GRN	GRINDER	G	NATURAL GAS	HWL	HIGH WATER LEVEL	SA	SUPPLY AIR	СКТ	CIRCUIT	PNL	PANELBOARD	D.	RADAR
		000						CL	CENTERLINE	PP	POWER PANEL	n DOE	
GT	GRIT TRAP	GR	GRIT	HW	HOT WATER	SP	STATIC PRESSURE					ROF	REVERSE-OFF-FORWARD SELECTOR SWITCH
GUH	GAS UNIT HEATER	GTS	GRAVITY THICKENER SUPERNATANT	HWR	HOT WATER RETURN			CLG	CEILING	PRI	PRIMARY	RST	RESET PUSHBUTTON
GW	GRIT WASHER	HHGR	HEATING HOT GLYCOL RETURN	IE	INVERT ELEVATION	HVAC E	QUIPMENT ABBREVIATIONS	COL	COLUMN	PT	POTENTIAL TRANSFORMER	RTD	RESISTANCE TEMPERATURE DETECTOR
Н	HOIST	HHGS	HEATING HOT GLYCOL SUPPLY	IWP	INDIRECT WASTE PIPE	ACCU	AIR COOLED CONDENSING UNIT	СТ	CURRENT TRANSFORMER	PTZ	PAN, TILT, ZOOM CAMERA	s	SUBMERSIBLE
нвт	HYDROPNEUMATIC BOOSTER TANK	HOCL	HYPOCHLORITE	L	LAVATORY	AFR	ARCHITECTURAL FINE TUBE RADIATION	CTE	CONNECT TO EXISTING	PVC	POLYVINYL CHLORIDE	SF	SEAL FAIL
нтх	HEAT EXCHANGER	HW	HOT WATER	MB	MOP BASIN	AHU	AIR HANDLING UNIT	CU	COPPER	PWR	POWER	SIL	SILENCE
IP	INFLUENT PUMP	HWR	HOT WATER RETURN	MH	MANHOLE	AS	AIR SEPARATOR	СПН	CABINET UNIT HEATER	RSC	RIGID GALVANIZED STEEL CONDUIT	SS	START-STOP SELECTOR SWITCH
MA	MOTORIZED ACTUATOR	HWS	HOT WATER RETURN HOT WATER SUPPLY	MV	MUD VALVE		BOILER	ח	DEDICATED	RTS	REMOTE TEST SWITCH	et.	START PUSHBUTTON
						BLR		DC	DIRECT CURRENT	RVNR	REDUCED VOLTAGE NON-REVERSING	OT-	
MBV	MOTORIZED BALL VALVE	ML	MIXED LIQUOR	PHW	PROCESS HOT WATER	ВВ	BASEBOARD					STP -	STOP PUSHBUTTON
MFS	MECHANICAL FINE SCREEN	MLW	MILL WASTE	Р	PUMP	С	CONVECTOR	DISC	DISCONNECT	RVSS	REDUCED VOLTAGE SOLID STATE	Т	THERMAL
MIX	MIXER	MTW	METRO WASTE	PLW	PLANT WATER	CD	CEILING DIFFUSER	DWG	DRAWING	SC	SHORT CIRCUIT	TAB	TRANSDUCER-AUTO-BACKUP FLOATS SELECTOR SWITCH
MOV	MOTOR OPERATED VALVE	NAOH	SODIUM HYDROXIDE	POC	POINT OF CONNECTION	CHILL	CHILLER	E	EMERGENCY	SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION	TH	THERMOCOUPLE
MP	MIXING PUMP	NPW	NONPOTABLE WATER	PRV	PRESSURE REDUCING VALVE	СТ	COOLING TOWER	EC	ELECTRICAL CONTRACTOR	scc	SUPERVISORY CONTROL CENTER	TM	THERMAL MASS
MPE	MISCELLANEOUS PROCESS EQUIPMENT	OF	OVERFLOW	PV	PLUG VALVE	син	CABINET UNIT HEATER	EDH	ELECTRIC DUCT HEATER	SE	SERVICE ENTRANCE	TRB	TURBIDITY
MST	MANUAL STRAINER	ос	ODOR CONTROL	PVC	POLYVINYL CHLORIDE	CWP	CHILLED WATER PUMP	EF	EXHAUST FAN	SEC	SECONDARY	TSS	TOTAL SUSPENDED SOLIDS
MT	MICROTURBINE	PD	PLANT DRAIN	PVR	PRESSURE VACUUM RELIEF ASSEMBLY	DC	DRY COOLER	ЕНН	ELECTRICAL HANDHOLE	SH	SHIELDED	U	ULTRASONIC
NRP	NITRATE RECYCLE PUMP	PDP	PERFORATED DRAIN PIPE	QC	QUICK CONNECT	DH	DEHUMIDIFIER	EMT	ELECTRICAL METALLIC TUBING	SPD	SURGE PROTECTION DEVICE	V	VIBRATING FORK
								EOL	END OF LINE DEVICE	SS	STAINLESS STEEL	v VFD	VARIABLE FREQUENCY DRIVE
OCD	OVERHEAD COILING DOOR	PE	PLANT EFFLUENT	RCP	REINFORCED CONCRETE PIPE	DL	DRUM LOUVER		ELECTRIC WATER COOLER		SOLID STATE REDUCED VOLTAGE		
OCE	ODOR CONTROL EQUIPMENT	PEC	POLYELECTROLYTE CHEMICAL	RD	ROOF DRAIN	EBB	ELECTRIC BASEBOARD	EWC		SSRV		VM	VENTILATION MONITORING
ODE	OXIDATION DITCH EQUIPMENT	PER	PLANT EFFLUENT REUSE	RL	REFRIGERANT LIQUID	EDH	ELECTRIC DUCT HEATER	EX	EXISTING	STP	SHIELDED TWISTED PAIR	VS	VARIABLE SPEED
_	DDCCDECCING CAVIEW DUMB	PI	PLANT INFLUENT	RS	REFRIGERANT SUCTION	EF	EXHAUST FAN	FAAP	FIRE ALARM ANNUNCIATOR PANEL	sv	SOLENOID VALVE	YW	LEAKAGE SENSOR
PC	PROGRESSING CAVITY PUMP	PRC	PHOSPHORUS REMOVAL CHEMICAL	RZBP	REDUCED ZONE BACKFLOW PREVENTER	EG	EXHAUST GRILLE	FACP	FIRE ALARM CONTROL PANEL	sw	SWITCH		
PC PCD	PROGRESSING CAVITY PUMP PRIMARY CLARIFIER DRIVE		PRIMARY EFFLUENT	s	SINK	EJ	EXPANSION JOINT	FCU	FAN COIL UNIT	SWBD	SWITCHBOARD		
		PRE	-			EL	EXPANSION LOOP	FLA	FULL LOAD AMPERES	TEL	TELEPHONE		
PCD	PRIMARY CLARIFIER DRIVE	PRE PRF	PROCESS RETURN FLOW	SD	SHOWER DRAIN		<del></del>	FPCP	FIRE PUMP CONTROL PANEL				
PCD PCFD PF	PRIMARY CLARIFIER DRIVE PRIMARY CLARIFIER FLOCCULATOR DRIVE POLYMER FEEDER	PRF	PROCESS RETURN FLOW			ER	EXHAUST REGISTER	FFGF		TS2W	TWO SPEED TWO WINDING		
PCD PCFD PF PFP	PRIMARY CLARIFIER DRIVE PRIMARY CLARIFIER FLOCCULATOR DRIVE POLYMER FEEDER POLYMER FEED PUMP	PRF PRI	PROCESS RETURN FLOW PRIMARY INFLUENT	SEJ	SEWAGE EJECTOR		EXHAUST REGISTER						
PCD PCFD PF PFP PLWP	PRIMARY CLARIFIER DRIVE PRIMARY CLARIFIER FLOCCULATOR DRIVE POLYMER FEEDER POLYMER FEED PUMP PLANT WATER PUMP	PRF PRI PRS	PROCESS RETURN FLOW PRIMARY INFLUENT PRIMARY SLUDGE		SEWAGE EJECTOR SHOWER	ERC	ELECTRIC REHEAT COIL	FR	FIRE RETARDANT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR		
PCD PCFD PF PFP PLWP PRCP	PRIMARY CLARIFIER DRIVE PRIMARY CLARIFIER FLOCCULATOR DRIVE POLYMER FEEDER POLYMER FEED PUMP PLANT WATER PUMP PHOSPHORUS REMOVAL CHEMICAL PUMP	PRF PRI PRS PSS	PROCESS RETURN FLOW PRIMARY INFLUENT PRIMARY SLUDGE PLANT SANITARY SEWER	SEJ	SEWAGE EJECTOR SHOWER SUMP PUMP		ELECTRIC REHEAT COIL ENERGY RECOVERY UNIT	FR FT	FIRE RETARDANT FEET	TVSS TYP	TRANSIENT VOLTAGE SURGE SUPPRESSOR TYPICAL		
PCD PCFD PF PFP PLWP PRCP	PRIMARY CLARIFIER DRIVE PRIMARY CLARIFIER FLOCCULATOR DRIVE POLYMER FEEDER POLYMER FEED PUMP PLANT WATER PUMP	PRF PRI PRS	PROCESS RETURN FLOW PRIMARY INFLUENT PRIMARY SLUDGE	SEJ	SEWAGE EJECTOR SHOWER	ERC	ELECTRIC REHEAT COIL	FR	FIRE RETARDANT FEET FOOD AND DRUG ADMINISTRATION	TVSS TYP UG	TRANSIENT VOLTAGE SURGE SUPPRESSOR TYPICAL UNDERGROUND		
PCD PCFD PF PFP PLWP PRCP	PRIMARY CLARIFIER DRIVE PRIMARY CLARIFIER FLOCCULATOR DRIVE POLYMER FEEDER POLYMER FEED PUMP PLANT WATER PUMP PHOSPHORUS REMOVAL CHEMICAL PUMP	PRF PRI PRS PSS	PROCESS RETURN FLOW PRIMARY INFLUENT PRIMARY SLUDGE PLANT SANITARY SEWER	SEJ SHR SP	SEWAGE EJECTOR SHOWER SUMP PUMP	ERC ERU	ELECTRIC REHEAT COIL ENERGY RECOVERY UNIT	FR FT	FIRE RETARDANT FEET	TVSS TYP	TRANSIENT VOLTAGE SURGE SUPPRESSOR TYPICAL		
PCD PCFD PF PFP PLWP PRCP PRCT	PRIMARY CLARIFIER DRIVE PRIMARY CLARIFIER FLOCCULATOR DRIVE POLYMER FEEDER POLYMER FEED PUMP PLANT WATER PUMP PHOSPHORUS REMOVAL CHEMICAL PUMP PHOSPHORUS REMOVAL CHEMICAL TANK	PRF PRI PRS PSS PW	PROCESS RETURN FLOW PRIMARY INFLUENT PRIMARY SLUDGE PLANT SANITARY SEWER POTABLE WATER	SEJ SHR SP SS	SEWAGE EJECTOR SHOWER SUMP PUMP STAINLESS STEEL	ERC ERU	ELECTRIC REHEAT COIL ENERGY RECOVERY UNIT ELECTRIC UNIT HEATER	FR FT FDA	FIRE RETARDANT FEET FOOD AND DRUG ADMINISTRATION	TVSS TYP UG	TRANSIENT VOLTAGE SURGE SUPPRESSOR TYPICAL UNDERGROUND		
PCD PCFD PF PFP PLWP PRCP PRCT PREP	PRIMARY CLARIFIER DRIVE PRIMARY CLARIFIER FLOCCULATOR DRIVE POLYMER FEEDER POLYMER FEED PUMP PLANT WATER PUMP PHOSPHORUS REMOVAL CHEMICAL PUMP PHOSPHORUS REMOVAL CHEMICAL TANK PRIMARY EFFLUENT PUMP	PRF PRI PRS PSS PW PWR	PROCESS RETURN FLOW PRIMARY INFLUENT PRIMARY SLUDGE PLANT SANITARY SEWER POTABLE WATER PROCESS WATER RETURN	SEJ SHR SP SS SV	SEWAGE EJECTOR SHOWER SUMP PUMP STAINLESS STEEL SOLENOID VALVE	ERC ERU EUH EWH	ELECTRIC REHEAT COIL ENERGY RECOVERY UNIT ELECTRIC UNIT HEATER ELECTRIC WALL HEATER	FR FT FDA FVNR	FIRE RETARDANT FEET FOOD AND DRUG ADMINISTRATION FULL VOLTAGE NON-REVERSING	TVSS TYP UG UH	TRANSIENT VOLTAGE SURGE SUPPRESSOR TYPICAL UNDERGROUND UNIT HEATER		
PCD PCFD PF PFP PLWP PRCP PRCT PREP	PRIMARY CLARIFIER DRIVE PRIMARY CLARIFIER FLOCCULATOR DRIVE POLYMER FEEDER POLYMER FEED PUMP PLANT WATER PUMP PHOSPHORUS REMOVAL CHEMICAL PUMP PHOSPHORUS REMOVAL CHEMICAL TANK PRIMARY EFFLUENT PUMP PROCESS RETURN FLOW PUMP	PRF PRI PRS PSS PW PWR PWS	PROCESS RETURN FLOW PRIMARY INFLUENT PRIMARY SLUDGE PLANT SANITARY SEWER POTABLE WATER PROCESS WATER RETURN PROCESS WATER SUPPLY	SEJ SHR SP SS SV	SEWAGE EJECTOR SHOWER SUMP PUMP STAINLESS STEEL SOLENOID VALVE SERVICE SINK TANK	ERC ERU EUH EWH FCU	ELECTRIC REHEAT COIL ENERGY RECOVERY UNIT ELECTRIC UNIT HEATER ELECTRIC WALL HEATER FAN COIL UNIT	FR FT FDA FVNR FVR	FIRE RETARDANT FEET FOOD AND DRUG ADMINISTRATION FULL VOLTAGE NON-REVERSING FULL VOLTAGE REVERSING	TVSS TYP UG UH UPS	TRANSIENT VOLTAGE SURGE SUPPRESSOR TYPICAL UNDERGROUND UNIT HEATER UNINTERRUPTIBLE POWER SUPPLY		
PCD PCFD PF PFP PLWP PRCP PRCT PREP PRFP PRSP	PRIMARY CLARIFIER DRIVE PRIMARY CLARIFIER FLOCCULATOR DRIVE POLYMER FEEDER POLYMER FEED PUMP PLANT WATER PUMP PHOSPHORUS REMOVAL CHEMICAL PUMP PHOSPHORUS REMOVAL CHEMICAL TANK PRIMARY EFFLUENT PUMP PROCESS RETURN FLOW PUMP PRIMARY SLUDGE PUMP POLYMER TRANSFER PUMP	PRF PRI PRS PSS PW PWR PWS RAS RW	PROCESS RETURN FLOW PRIMARY INFLUENT PRIMARY SLUDGE PLANT SANITARY SEWER POTABLE WATER PROCESS WATER RETURN PROCESS WATER SUPPLY RETURN ACTIVATED SLUDGE RAW WASTEWATER	SEJ SHR SP SS SV SVS	SEWAGE EJECTOR SHOWER SUMP PUMP STAINLESS STEEL SOLENOID VALVE SERVICE SINK TANK TRENCH DRAIN	ERC ERU EUH EWH FCU FD	ELECTRIC REHEAT COIL ENERGY RECOVERY UNIT ELECTRIC UNIT HEATER ELECTRIC WALL HEATER FAN COIL UNIT FIRE DAMPER FINNED TUBE RADIATION	FR FT FDA FVNR FVR G	FIRE RETARDANT FEET FOOD AND DRUG ADMINISTRATION FULL VOLTAGE NON-REVERSING FULL VOLTAGE REVERSING GROUND GENERAL CONTRACTOR	TVSS TYP UG UH UPS	TRANSIENT VOLTAGE SURGE SUPPRESSOR TYPICAL UNDERGROUND UNIT HEATER UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR VOLTS		
PCD PCFD PF PFP PLWP PRCP PRCT PREP PRFP PRSP PTP RAD	PRIMARY CLARIFIER DRIVE PRIMARY CLARIFIER FLOCCULATOR DRIVE POLYMER FEEDER POLYMER FEED PUMP PLANT WATER PUMP PHOSPHORUS REMOVAL CHEMICAL PUMP PHOSPHORUS REMOVAL CHEMICAL TANK PRIMARY EFFLUENT PUMP PROCESS RETURN FLOW PUMP PRIMARY SLUDGE PUMP POLYMER TRANSFER PUMP REFRIGERATED AIR DRYER	PRF PRI PRS PSS PW PWR PWS RAS RW SAM	PROCESS RETURN FLOW PRIMARY INFLUENT PRIMARY SLUDGE PLANT SANITARY SEWER POTABLE WATER PROCESS WATER RETURN PROCESS WATER SUPPLY RETURN ACTIVATED SLUDGE RAW WASTEWATER SAMPLE	SEJ SHR SP SS SV SVS	SEWAGE EJECTOR SHOWER SUMP PUMP STAINLESS STEEL SOLENOID VALVE SERVICE SINK TANK TRENCH DRAIN URINAL	ERC ERU EUH EWH FCU FD FR FUR	ELECTRIC REHEAT COIL ENERGY RECOVERY UNIT ELECTRIC UNIT HEATER ELECTRIC WALL HEATER FAN COIL UNIT FIRE DAMPER FINNED TUBE RADIATION FURNACE	FR FT FDA FVNR FVR G GC GFI	FIRE RETARDANT FEET FOOD AND DRUG ADMINISTRATION FULL VOLTAGE NON-REVERSING FULL VOLTAGE REVERSING GROUND GENERAL CONTRACTOR GROUND FAULT INTERRUPTER	TVSS TYP UG UH UPS UTP V	TRANSIENT VOLTAGE SURGE SUPPRESSOR TYPICAL UNDERGROUND UNIT HEATER UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR VOLTS VARIABLE FREQUENCY DRIVE		
PCD PCFD PF PFP PLWP PRCP PRCT PREP PRSP PTP RAD RASP	PRIMARY CLARIFIER DRIVE PRIMARY CLARIFIER FLOCCULATOR DRIVE POLYMER FEEDER POLYMER FEED PUMP PLANT WATER PUMP PHOSPHORUS REMOVAL CHEMICAL PUMP PHOSPHORUS REMOVAL CHEMICAL TANK PRIMARY EFFLUENT PUMP PROCESS RETURN FLOW PUMP PRIMARY SLUDGE PUMP POLYMER TRANSFER PUMP REFRIGERATED AIR DRYER RETURN ACTIVATED SLUDGE PUMP	PRF PRI PRS PSS PW PWR PWS RAS RW SAM	PROCESS RETURN FLOW PRIMARY INFLUENT PRIMARY SLUDGE PLANT SANITARY SEWER POTABLE WATER PROCESS WATER RETURN PROCESS WATER SUPPLY RETURN ACTIVATED SLUDGE RAW WASTEWATER SAMPLE SANITARY SEWER	SEJ SHR SP SS SV T TD U	SEWAGE EJECTOR SHOWER SUMP PUMP STAINLESS STEEL SOLENOID VALVE SERVICE SINK TANK TRENCH DRAIN URINAL VENT	ERC ERU EUH EWH FCU FD FR FUR GDF	ELECTRIC REHEAT COIL ENERGY RECOVERY UNIT ELECTRIC UNIT HEATER ELECTRIC WALL HEATER FAN COIL UNIT FIRE DAMPER FINNED TUBE RADIATION FURNACE GAS DUCT FURNACE	FR FT FDA FVNR FVR G GC GFI	FIRE RETARDANT FEET FOOD AND DRUG ADMINISTRATION FULL VOLTAGE NON-REVERSING FULL VOLTAGE REVERSING GROUND GENERAL CONTRACTOR GROUND FAULT INTERRUPTER GROUND FAULT PROTECTION (EQUIPMENT)	TVSS TYP UG UH UPS UTP V VFD	TRANSIENT VOLTAGE SURGE SUPPRESSOR  TYPICAL  UNDERGROUND  UNIT HEATER  UNINTERRUPTIBLE POWER SUPPLY  UNSHIELDED TWISTED PAIR  VOLTS  VARIABLE FREQUENCY DRIVE  WIRE OR WATT		
PCD PCFD PF PFP PLWP PRCP PRCT PREP PRFP PRSP PTP RAD	PRIMARY CLARIFIER DRIVE PRIMARY CLARIFIER FLOCCULATOR DRIVE POLYMER FEEDER POLYMER FEED PUMP PLANT WATER PUMP PHOSPHORUS REMOVAL CHEMICAL PUMP PHOSPHORUS REMOVAL CHEMICAL TANK PRIMARY EFFLUENT PUMP PROCESS RETURN FLOW PUMP PRIMARY SLUDGE PUMP POLYMER TRANSFER PUMP REFRIGERATED AIR DRYER	PRF PRI PRS PSS PW PWR PWS RAS RW SAM	PROCESS RETURN FLOW PRIMARY INFLUENT PRIMARY SLUDGE PLANT SANITARY SEWER POTABLE WATER PROCESS WATER RETURN PROCESS WATER SUPPLY RETURN ACTIVATED SLUDGE RAW WASTEWATER SAMPLE	SEJ SHR SP SS SV SVS	SEWAGE EJECTOR SHOWER SUMP PUMP STAINLESS STEEL SOLENOID VALVE SERVICE SINK TANK TRENCH DRAIN URINAL	ERC ERU EUH EWH FCU FD FR FUR	ELECTRIC REHEAT COIL ENERGY RECOVERY UNIT ELECTRIC UNIT HEATER ELECTRIC WALL HEATER FAN COIL UNIT FIRE DAMPER FINNED TUBE RADIATION FURNACE	FR FT FDA FVNR FVR G GC GFI	FIRE RETARDANT FEET FOOD AND DRUG ADMINISTRATION FULL VOLTAGE NON-REVERSING FULL VOLTAGE REVERSING GROUND GENERAL CONTRACTOR GROUND FAULT INTERRUPTER	TVSS TYP UG UH UPS UTP V	TRANSIENT VOLTAGE SURGE SUPPRESSOR TYPICAL UNDERGROUND UNIT HEATER UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR VOLTS VARIABLE FREQUENCY DRIVE		

ABBREVIATI

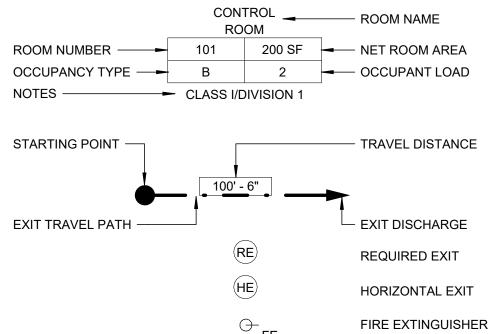
**JOB NO.** 1602.175

PROJECT MGR.
MIKE FORSLUND



SHEET 9 G0.9

### <u>LIFE SAFETY LEGEND</u>



#### **FIRE-RATING LEGEND**

FIRE WALLS	
1-FW	1-HOUR FIRE WALL
2-FW	2-HOUR FIRE WALL
3-FW	•
4-FW	3-HOUR FIRE WALL
	4-HOUR FIRE WALL
FIRE BARRIERS	
1-FB	1-HOUR FIRE BARRIER
2-FB	2-HOUR FIRE BARRIER
3-FB	3-HOUR FIRE BARRIER
4-FB	4-HOUR FIRE BARRIER
	T-HOURT INC DARMEN

BUILDING CODE	2015 INTERNATIONAL BUILDIN	G CODE (SPS 362)	
		CONSERVATION CODE (SPS 36	63)
	2015 INTERNATIONAL MECHAN		
	2015 INTERNATIONAL FUEL GA	,	
	2015 INTERNATIONAL FIRE CO		
	WISCONSIN PLUMBING CODE	` ,	
	2017 NATIONAL ELECTRIC COL	DE (SPS 316)	
SCOPE OF WORK:			
CONSTRUCTION OF NEW 1-S	TORY ± 1,310 SF WELL BUILDING		
OCCUPANCY TYPE	NON-SEPARATED USE		
USE GROUPS	F-1 MODERATE-HAZARD FACT	ORY INDUSTRIAL	
	H-4 HIGH-HAZARD (ACCESSOF	RY USE)	
HAZARDOUS MATERIALS	,	,	
		MAX. ALLOWABLE QUANT.	
MATERIAL	MATERIAL CLASSIFICATION	PER CONTROL AREA <sup>b</sup>	ACTUAL QUANTITY <sup>a</sup>
SODIUM HYPOCHLORITE	CORROSIVE	500 GALLONS	100 GALLONS
FLUOROSILICIC ACID	CORROSIVE	500 GALLONS	70 GALLONS
NOTES:	TOXIC	50 GALLONS	
CONSTRUCTION TYPE	TYPE 5B		
CONSTRUCTION TYPE OCCUPANCY	/ SEPARATION	FIRE-RESISTA	NCE RATING
OCCUPANCY	1	FIRE-RESISTA 2 HO	
OCCUPANCY	/ SEPARATION 1:H-4		
OCCUPANCY F-	/ SEPARATION 1:H-4		
OCCUPANCY F-	/ SEPARATION 1:H-4 ATION		DUR
OCCUPANC) F-' GENERAL BUILDING INFORMA	/ SEPARATION 1:H-4 ATION ALLOWABLE		OUR ACTUAL
OCCUPANCY F-' GENERAL BUILDING INFORMA NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL	Y SEPARATION 1:H-4 ATION ALLOWABLE 1 STORY		ACTUAL 1 STORY ± 20'-6"
OCCUPANCY F GENERAL BUILDING INFORMA  NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL F-1	/ SEPARATION 1:H-4 ATION ALLOWABLE 1 STORY 40 FEET 8,500 SF		ACTUAL 1 STORY ± 20'-6"
OCCUPANCY F-' GENERAL BUILDING INFORMA  NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL F-1 H-4 (ACCESSORY USE)	ATION ALLOWABLE 1 STORY 40 FEET		ACTUAL 1 STORY ± 20'-6"
OCCUPANCY F GENERAL BUILDING INFORMA  NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL F-1	/ SEPARATION 1:H-4 ATION ALLOWABLE 1 STORY 40 FEET 8,500 SF		ACTUAL 1 STORY ± 20'-6" 1,132 S 121 S
OCCUPANCY F-' GENERAL BUILDING INFORMA  NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL F-1 H-4 (ACCESSORY USE) TOTAL ALLOWABLE AREA	### SEPARATION 1:H-4  ATION  ALLOWABLE 1 STORY 40 FEET   ### 8,500 SF 125 SF 15,500 SF ± 1,300 SF	TOTAL ACTUAL AREA	ACTUAL 1 STORY ± 20'-6"
OCCUPANCY F GENERAL BUILDING INFORMA  NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL F-1 H-4 (ACCESSORY USE) TOTAL ALLOWABLE AREA PER FLOOR LEVEL PROJECT AREA PUBLIC WAYS OR YARDS	### SEPARATION 1:H-4  ATION  ALLOWABLE 1 STORY 40 FEET  ### 8,500 SF 125 SF 15,500 SF  ± 1,300 SF  ACCESSIBLE FROM 4 SIDES, M	TOTAL ACTUAL AREA	ACTUAL 1 STORY ± 20'-6" 1,132 S 121 S
OCCUPANCY F-' GENERAL BUILDING INFORMA  NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL F-1 H-4 (ACCESSORY USE) TOTAL ALLOWABLE AREA PER FLOOR LEVEL PROJECT AREA	### SEPARATION 1:H-4  ATION  ALLOWABLE 1 STORY 40 FEET  ### 8,500 SF 125 SF 15,500 SF  ± 1,300 SF  ACCESSIBLE FROM 4 SIDES, M	TOTAL ACTUAL AREA	ACTUAL 1 STORY ± 20'-6" 1,132 S 121 S
OCCUPANCY F-' GENERAL BUILDING INFORMA  NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL F-1 H-4 (ACCESSORY USE) TOTAL ALLOWABLE AREA PER FLOOR LEVEL PROJECT AREA PUBLIC WAYS OR YARDS FIRE SUPPRESSION SYSTEMS AUTOMATIC SPRINKLER SYSTEMS	### SEPARATION 1:H-4  ATION  ALLOWABLE 1 STORY 40 FEET  ### 8,500 SF 125 SF 15,500 SF  ± 1,300 SF  ACCESSIBLE FROM 4 SIDES, M	TOTAL ACTUAL AREA  MIN. 30-FOOT ACCESS WIDTH  RIDE ROOM AND CHLORINE RO	ACTUAL 1 STORY ± 20'-6" 1,132 S 121 S 1,253 S
OCCUPANCY F-' GENERAL BUILDING INFORMA  NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL F-1 H-4 (ACCESSORY USE) TOTAL ALLOWABLE AREA PER FLOOR LEVEL PROJECT AREA PUBLIC WAYS OR YARDS FIRE SUPPRESSION SYSTEMS AUTOMATIC SPRINKLER SYSTEMS	/ SEPARATION 1:H-4 ATION ALLOWABLE 1 STORY 40 FEET  8,500 SF 125 SF 15,500 SF ± 1,300 SF ACCESSIBLE FROM 4 SIDES, MS FEM - ORDINARY HAZARD (FLUO	TOTAL ACTUAL AREA  MIN. 30-FOOT ACCESS WIDTH  RIDE ROOM AND CHLORINE RO	ACTUAL 1 STORY ± 20'-6" 1,132 S 121 S 1,253 S
OCCUPANCY F GENERAL BUILDING INFORMA  NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL F-1 H-4 (ACCESSORY USE) TOTAL ALLOWABLE AREA PER FLOOR LEVEL PROJECT AREA PUBLIC WAYS OR YARDS FIRE SUPPRESSION SYSTEMS AUTOMATIC SPRINKLER SYSTEMS PORTABLE FIRE EXTINGUISH	/ SEPARATION 1:H-4 ATION ALLOWABLE 1 STORY 40 FEET  8,500 SF 125 SF 15,500 SF ± 1,300 SF ACCESSIBLE FROM 4 SIDES, MS FEM - ORDINARY HAZARD (FLUO	TOTAL ACTUAL AREA  IIN. 30-FOOT ACCESS WIDTH  RIDE ROOM AND CHLORINE ROUND CAPACITY.	ACTUAL 1 STORY ± 20'-6" 1,132 S 121 S 1,253 S
OCCUPANCY F-' GENERAL BUILDING INFORMA  NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL F-1 H-4 (ACCESSORY USE) TOTAL ALLOWABLE AREA PER FLOOR LEVEL PROJECT AREA PUBLIC WAYS OR YARDS FIRE SUPPRESSION SYSTEMS AUTOMATIC SPRINKLER SYSTEMS PORTABLE FIRE EXTINGUISH  NUMBER OF OCCUPANTS	/ SEPARATION 1:H-4 ATION ALLOWABLE 1 STORY 40 FEET  8,500 SF 125 SF 15,500 SF ± 1,300 SF ACCESSIBLE FROM 4 SIDES, MS FEM - ORDINARY HAZARD (FLUO) ERS, RATED CLASS A,B,C; 10-PO	TOTAL ACTUAL AREA  IIN. 30-FOOT ACCESS WIDTH  RIDE ROOM AND CHLORINE ROUND CAPACITY.	ACTUAL 1 STORY ± 20'-6" 1,132 S 121 S 1,253 S
OCCUPANCY F GENERAL BUILDING INFORMA  NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL F-1 H-4 (ACCESSORY USE) TOTAL ALLOWABLE AREA PER FLOOR LEVEL PROJECT AREA PUBLIC WAYS OR YARDS FIRE SUPPRESSION SYSTEMS AUTOMATIC SPRINKLER SYST PORTABLE FIRE EXTINGUISH  NUMBER OF OCCUPANTS OCCUPANT LOAD FACTOR	/ SEPARATION 1:H-4 ATION ALLOWABLE 1 STORY 40 FEET  8,500 SF 125 SF 15,500 SF ± 1,300 SF ACCESSIBLE FROM 4 SIDES, MS FEM - ORDINARY HAZARD (FLUOERS, RATED CLASS A,B,C; 10-PO  INDUSTRIAL AREAS - 100 GROSEE PLAN	TOTAL ACTUAL AREA  IIN. 30-FOOT ACCESS WIDTH  RIDE ROOM AND CHLORINE ROUND CAPACITY.	ACTUAL 1 STORY ± 20'-6"  1,132 S 121 S 1,253 S  OM ONLY) 1
OCCUPANCY F-' GENERAL BUILDING INFORMA  NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL F-1 H-4 (ACCESSORY USE) TOTAL ALLOWABLE AREA PER FLOOR LEVEL PROJECT AREA PUBLIC WAYS OR YARDS FIRE SUPPRESSION SYSTEMS AUTOMATIC SPRINKLER SYSTEM SAUTOMATIC SPRINKLER SYS	/ SEPARATION 1:H-4 ATION ALLOWABLE 1 STORY 40 FEET  8,500 SF 125 SF 15,500 SF ± 1,300 SF ACCESSIBLE FROM 4 SIDES, MS FEM - ORDINARY HAZARD (FLUOERS, RATED CLASS A,B,C; 10-PO  INDUSTRIAL AREAS - 100 GROSEE PLAN	TOTAL ACTUAL AREA  IIN. 30-FOOT ACCESS WIDTH  RIDE ROOM AND CHLORINE ROUND CAPACITY.	ACTUAL 1 STORY ± 20'-6"  1,132 S 121 S 1,253 S  OM ONLY) 1
OCCUPANCY F GENERAL BUILDING INFORMA  NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL F-1 H-4 (ACCESSORY USE) TOTAL ALLOWABLE AREA PER FLOOR LEVEL PROJECT AREA PUBLIC WAYS OR YARDS FIRE SUPPRESSION SYSTEMS AUTOMATIC SPRINKLER SYSTEMS AUTOMATIC SPRINKLER SYSTEMS AUTOMATIC SPRINKLER SYSTEMS AUTOMATIC SPRINKLER SYSTEMS OCCUPANT LOAD FACTOR OCCUPANT CALCULATION ACTUAL NUMBER OF OCCUPANTS	ATION  ALLOWABLE  1 STORY  40 FEET  8,500 SF  125 SF  15,500 SF  ± 1,300 SF  ACCESSIBLE FROM 4 SIDES, MS  FEM - ORDINARY HAZARD (FLUOERS, RATED CLASS A,B,C; 10-PO  INDUSTRIAL AREAS - 100 GROSEE PLAN  ZERO PERMANENT OCCUPANT	TOTAL ACTUAL AREA  MIN. 30-FOOT ACCESS WIDTH  RIDE ROOM AND CHLORINE ROUND CAPACITY.  SS  TS, ONLY PRESENT FOR MAINTE	ACTUAL 1 STORY ± 20'-6"  1,132 S 121 S 1,253 S  OM ONLY) 1
OCCUPANCY F GENERAL BUILDING INFORMA  NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL F-1 H-4 (ACCESSORY USE) TOTAL ALLOWABLE AREA PER FLOOR LEVEL PROJECT AREA PUBLIC WAYS OR YARDS FIRE SUPPRESSION SYSTEMS AUTOMATIC SPRINKLER SYSTEMS AUTOMATIC SPRINKLER SYSTEMS AUTOMATIC SPRINKLER SYSTEMS AUTOMATIC SPRINKLER SYSTEMS OCCUPANT LOAD FACTOR OCCUPANT CALCULATION ACTUAL NUMBER OF OCCUPANTS	ATION  ALLOWABLE  1 STORY  40 FEET  8,500 SF  125 SF  15,500 SF  ± 1,300 SF  ACCESSIBLE FROM 4 SIDES, MS  FEM - ORDINARY HAZARD (FLUOERS, RATED CLASS A,B,C; 10-PO  INDUSTRIAL AREAS - 100 GROSEE PLAN  ZERO PERMANENT OCCUPANT	TOTAL ACTUAL AREA  IIN. 30-FOOT ACCESS WIDTH  RIDE ROOM AND CHLORINE ROUND CAPACITY.  SS  TS, ONLY PRESENT FOR MAINTE	ACTUAL 1 STORY ± 20'-6"  1,132 S 121 S 1,253 S  OM ONLY) 1  ENANCE AND OPERATION.  COMMON PATH
OCCUPANCY F GENERAL BUILDING INFORMA  NO. OF STORIES HEIGHT AREA PER FLOOR LEVEL F-1 H-4 (ACCESSORY USE) TOTAL ALLOWABLE AREA PER FLOOR LEVEL PROJECT AREA PUBLIC WAYS OR YARDS FIRE SUPPRESSION SYSTEMS AUTOMATIC SPRINKLER SYSTEMS AUTOMATIC SPRINKLER SYSTEMS AUTOMATIC SPRINKLER SYSTEMS AUTOMATIC SPRINKLER SYSTEMS OCCUPANT LOAD FACTOR OCCUPANT CALCULATION ACTUAL NUMBER OF OCCUPANTS	ATION  ALLOWABLE  1 STORY  40 FEET  8,500 SF  125 SF  15,500 SF  ± 1,300 SF  ACCESSIBLE FROM 4 SIDES, MS  FEM - ORDINARY HAZARD (FLUOERS, RATED CLASS A,B,C; 10-PO  INDUSTRIAL AREAS - 100 GROSEE PLAN  ZERO PERMANENT OCCUPANT  OCCUPANCY  F-1	TOTAL ACTUAL AREA  MIN. 30-FOOT ACCESS WIDTH  RIDE ROOM AND CHLORINE ROUND CAPACITY.  SS  TS, ONLY PRESENT FOR MAINTE  EXIT ACCESS  200 FEET  175 FEET	ACTUAL 1 STORY ± 20'-6"  1,132 S 121 S 1,253 S  OM ONLY) 1  ENANCE AND OPERATION.  COMMON PATH 75 FEET

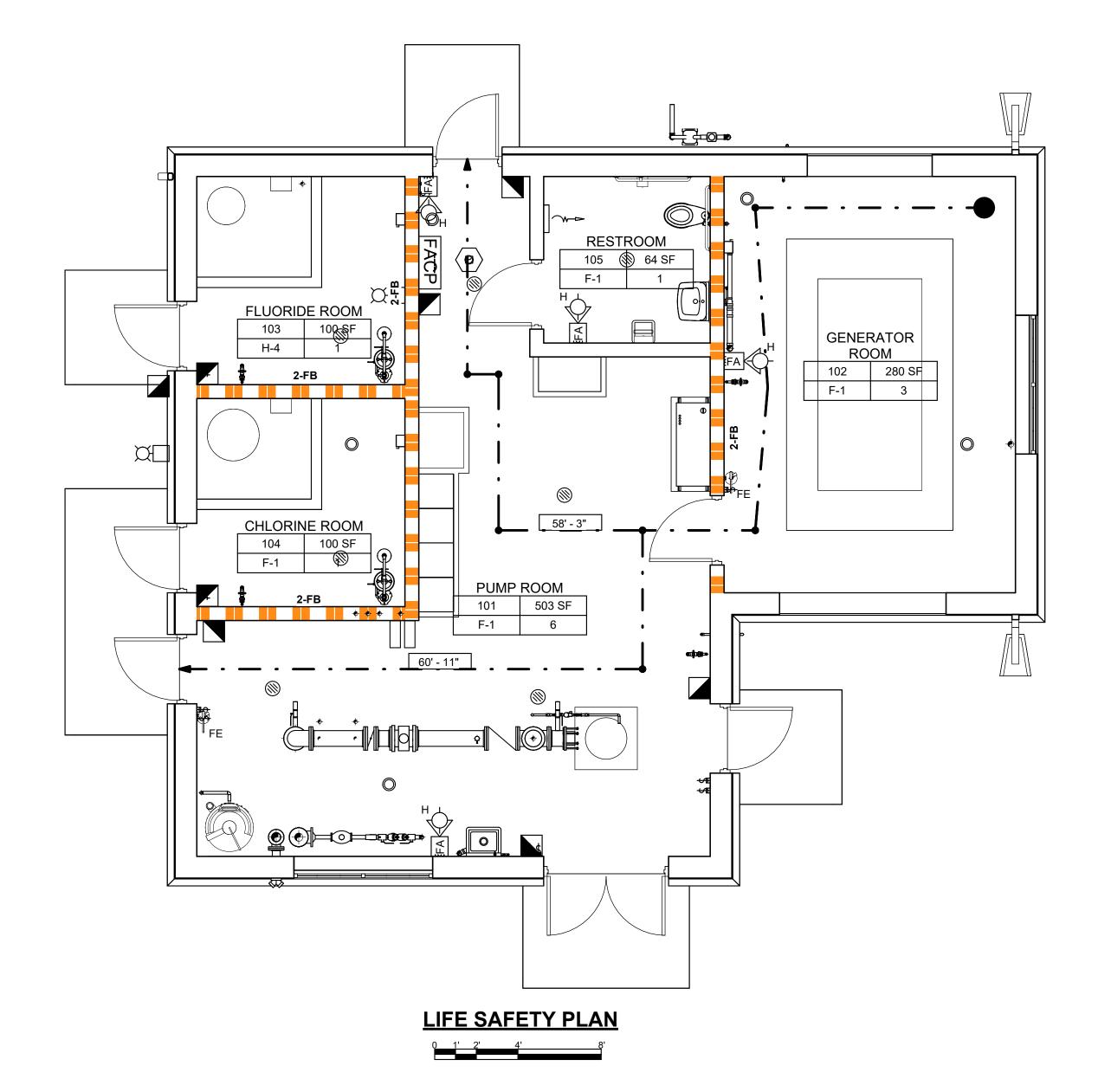
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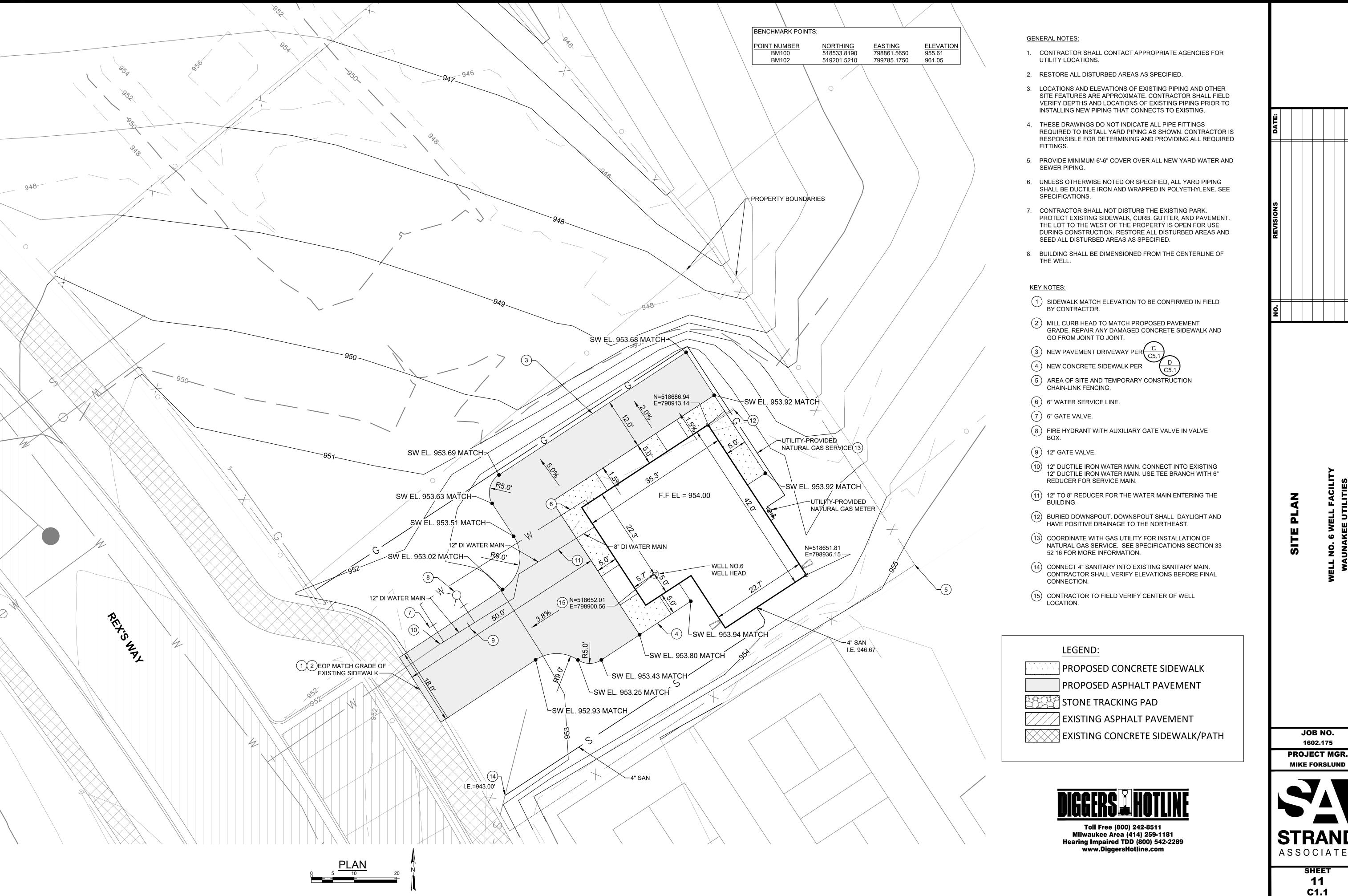
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SHEET 10 G1.1





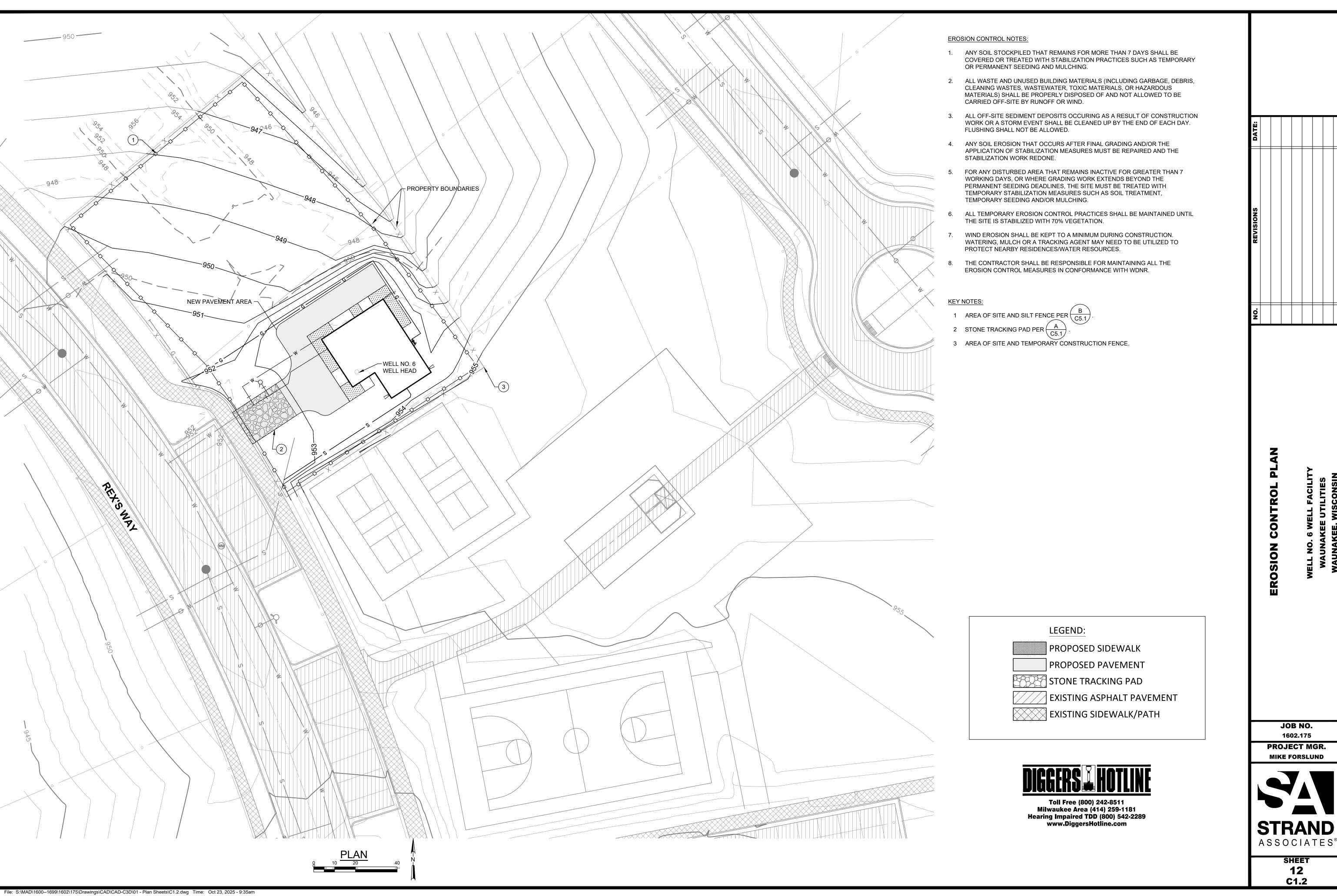
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SHEET 11

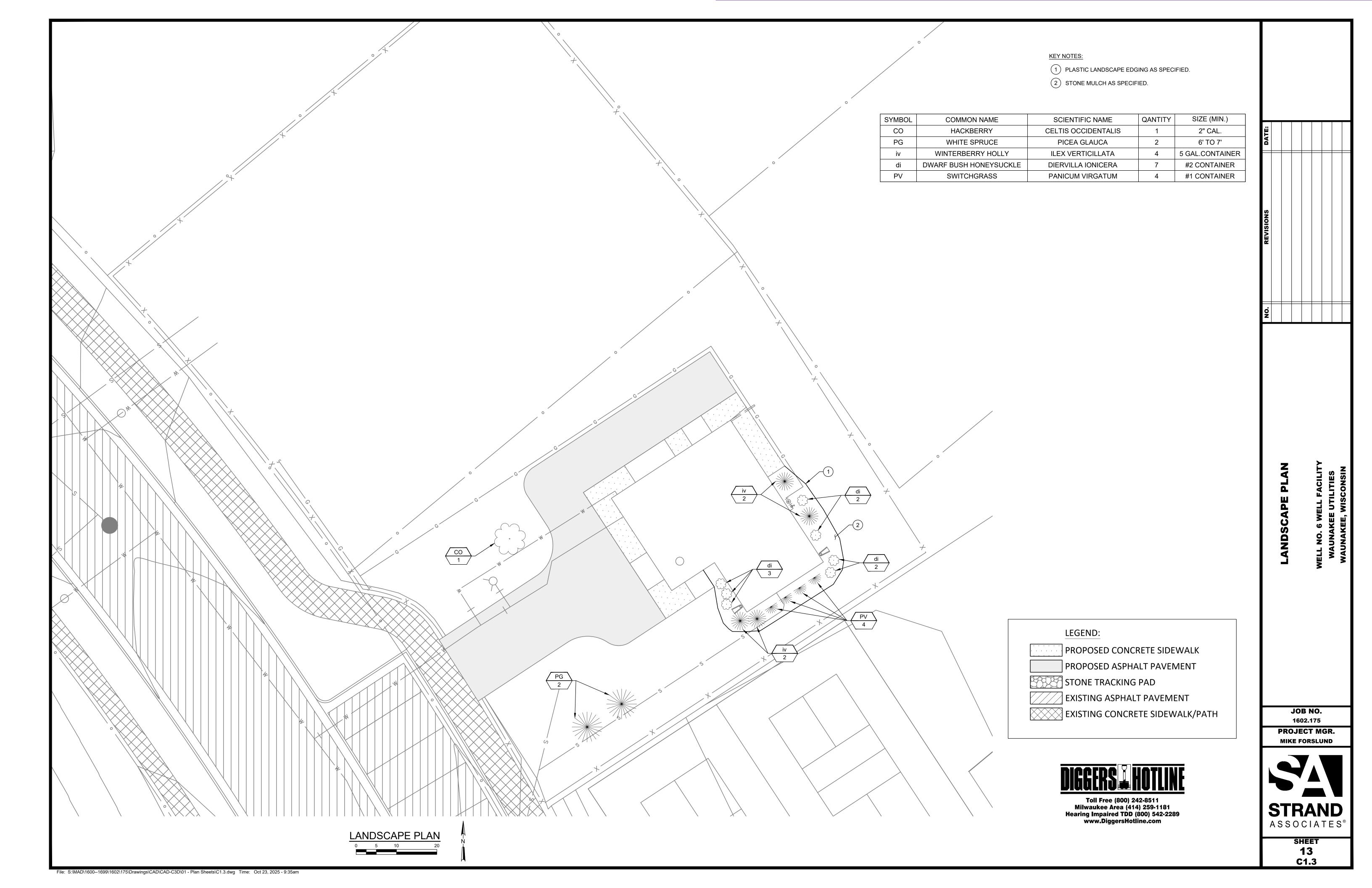


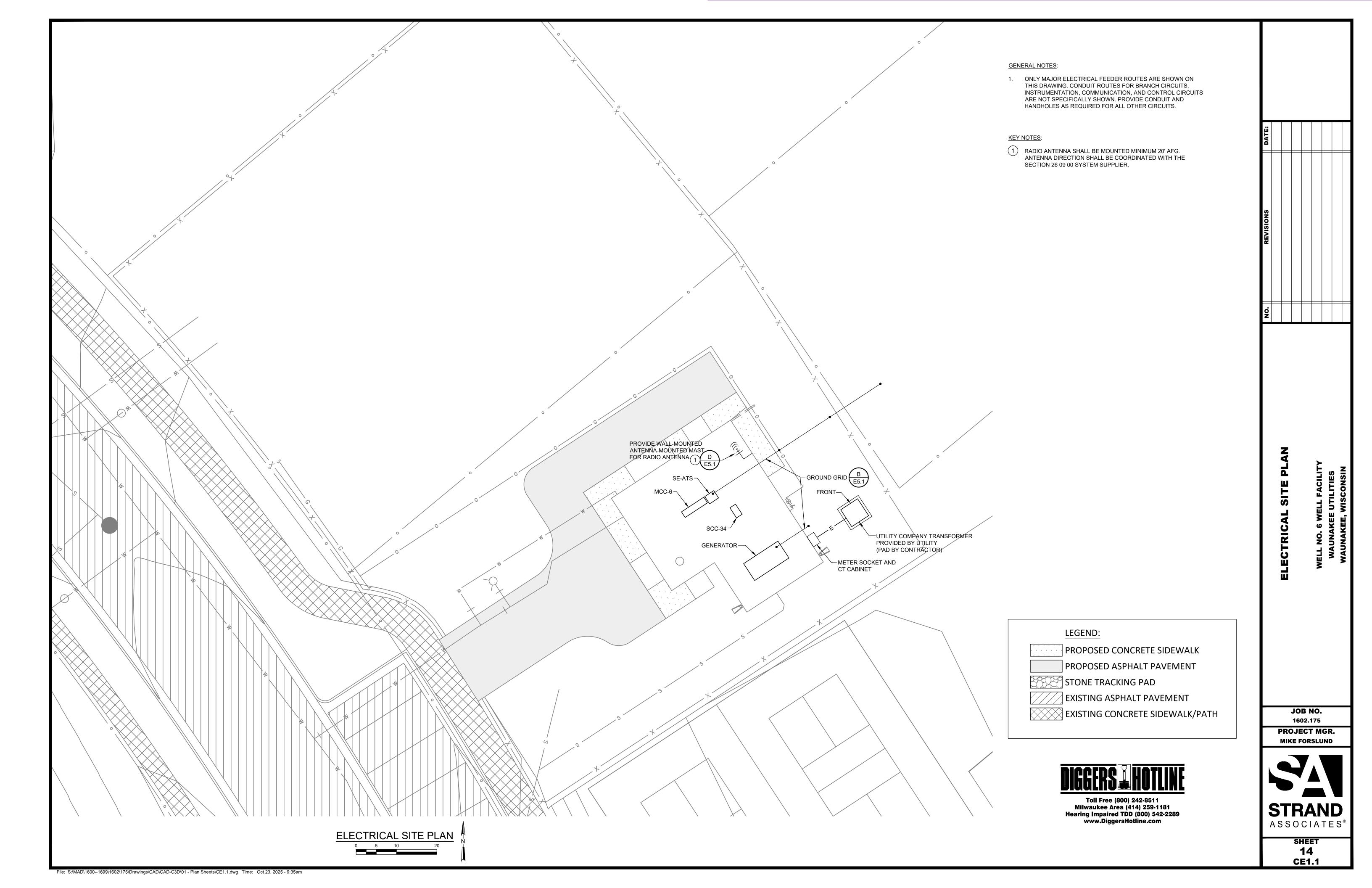
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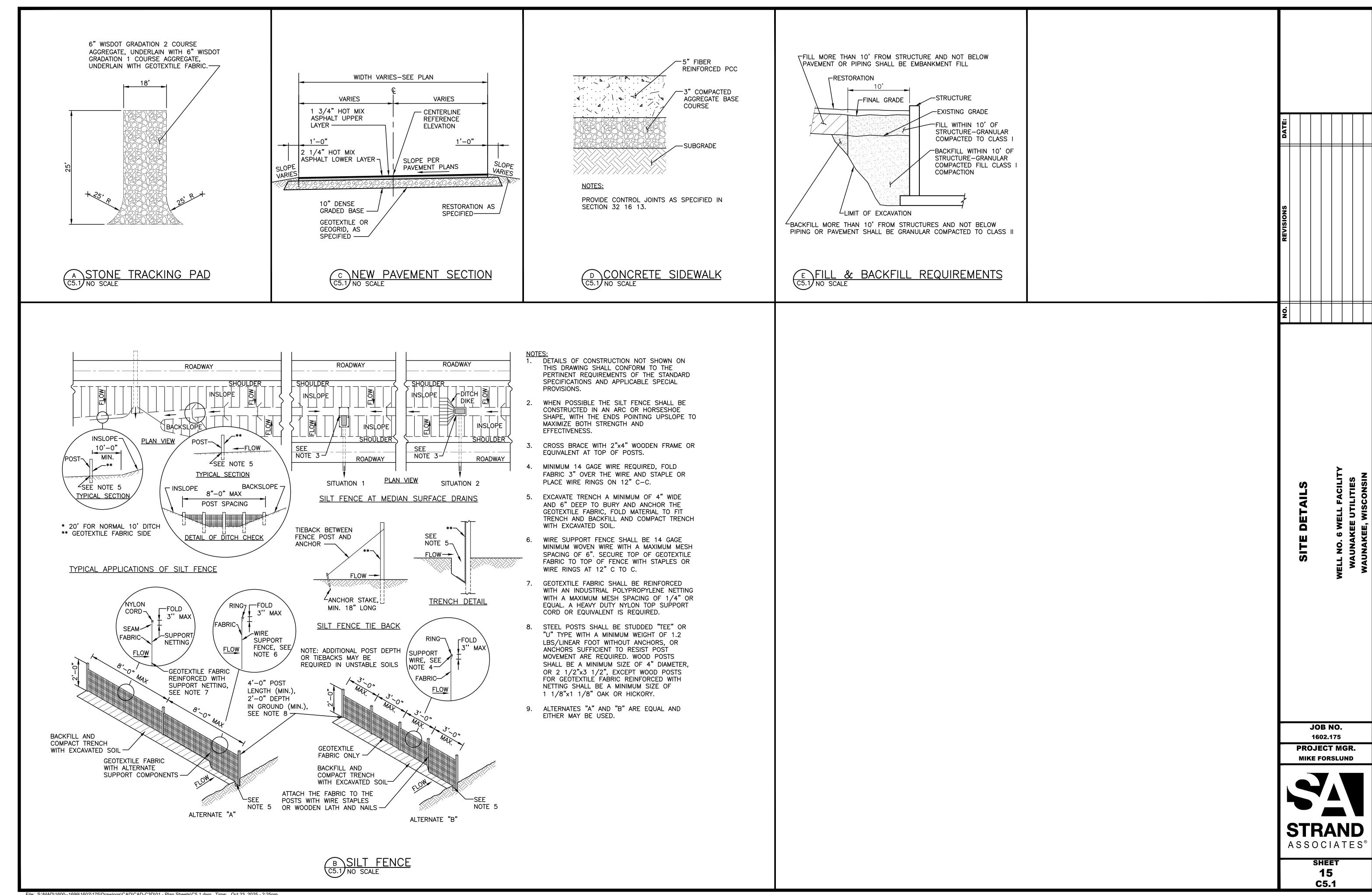
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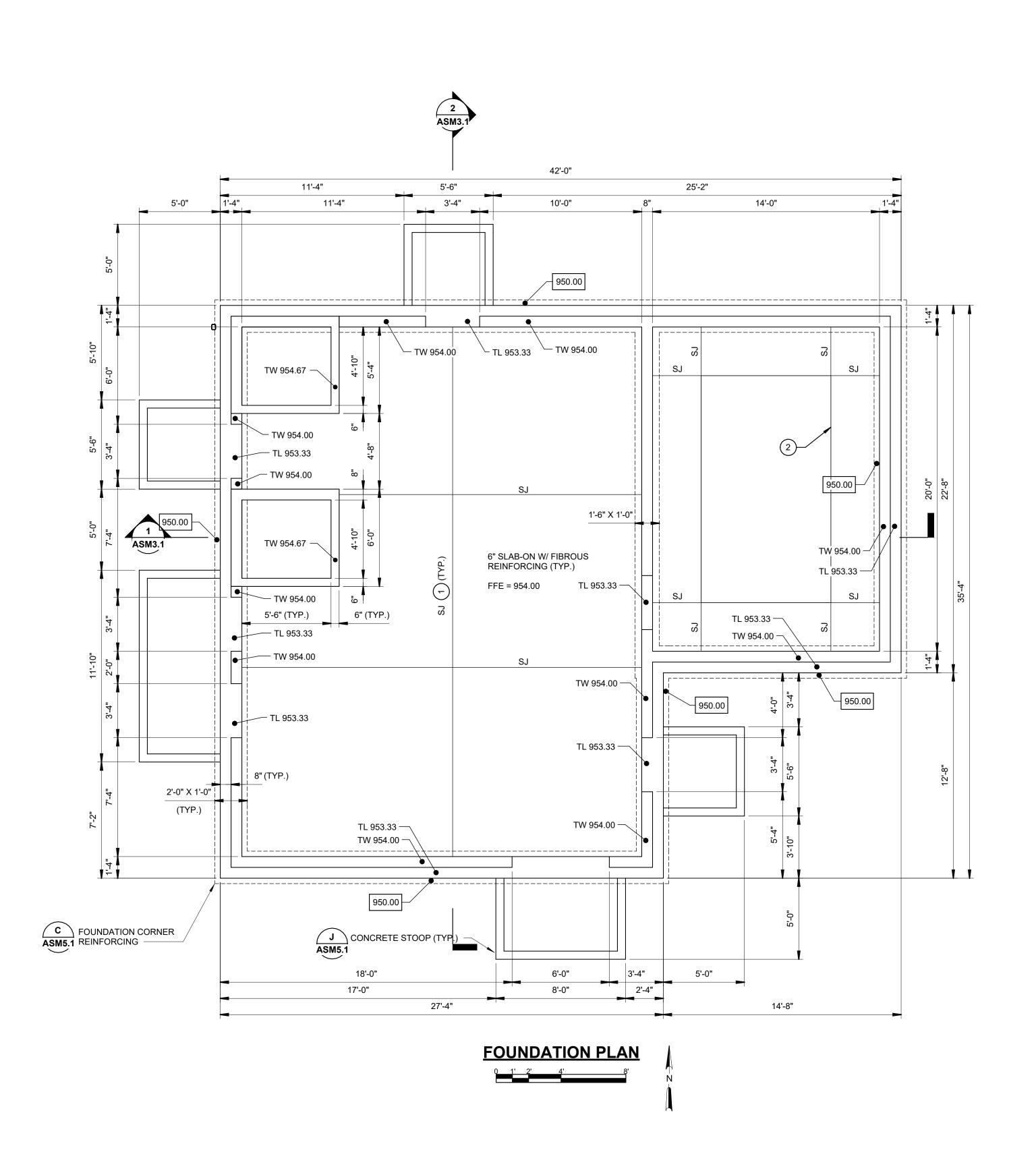


SHEET **12** 









1. FOR FOUNDATION LEGEND SEE ASM5.1

2. FFE = 954.00, LOCALLY DISH FLOOR SLAB TO FLOOR DRAINS. FFE = 953.96 AT FLOOR DRAINS.

**KEY NOTES**:

SAWN JOINT(SJ) ASM

GENERATOR BASE. 12" SLAB ON GRADE W/ #5@12" E.W. T&B. PROVIDE EXPANSION MATERIAL BETWEEN BASE AND FLOOR SLAB FULL PERIMETER. HOLD DOWN EXP. MATERIAL 1/2" AND CAULK JOINT.

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IDATION PLAN

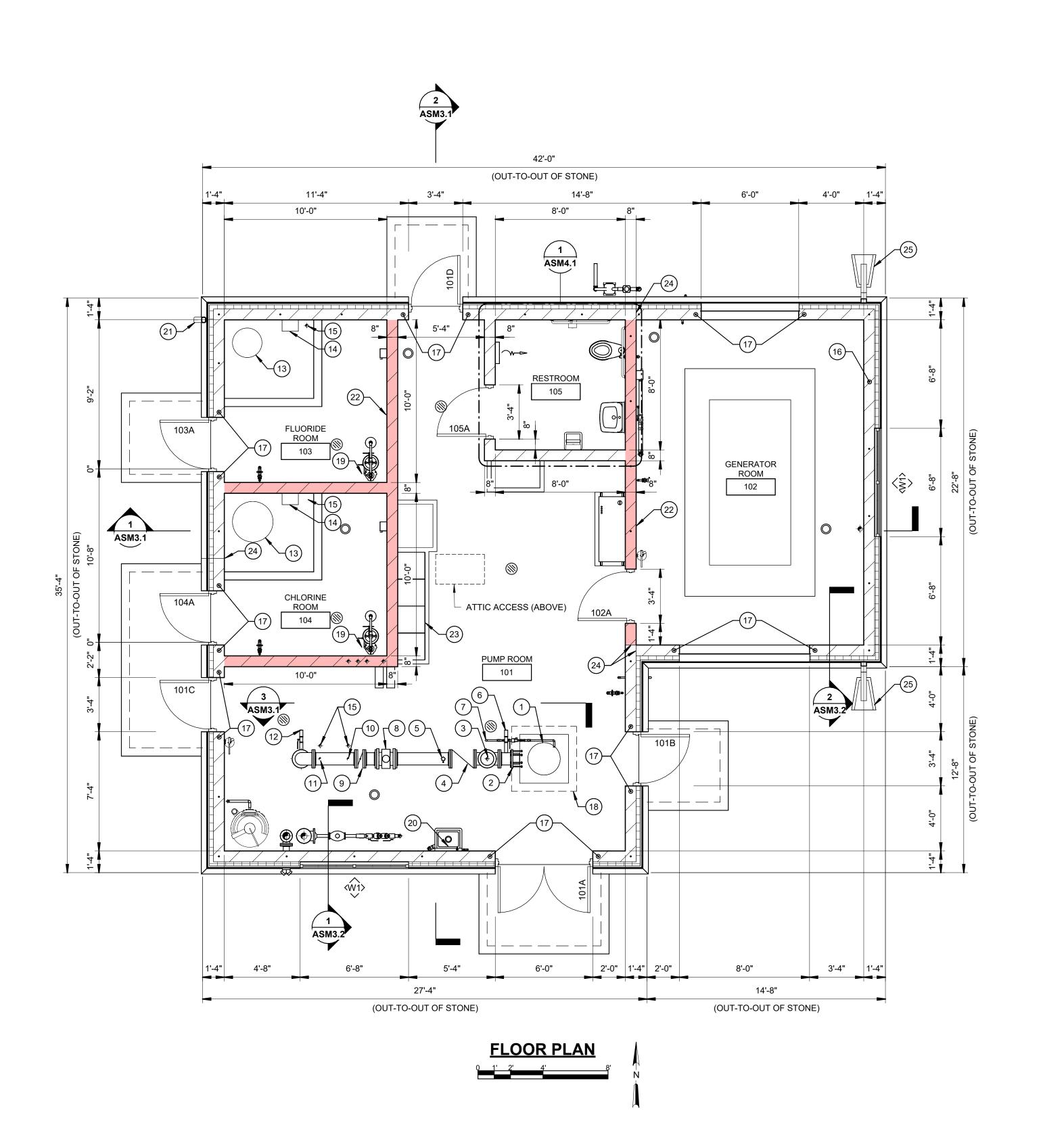
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JOB NO. 1602.175

PROJECT MGR. MIKE FORSLUND



SHEET 16 ASM1.1



- 1. SEE DRAWINGS ASM6.1 AND ASM6.2 FOR ARCHITECTURAL AND STRUCTURAL GENERAL NOTES AND SCHEDULES.
- 2. CHEMICAL ROOMS SHALL BE NEMA 4X RATED.
- 3. FFE = 954.00 FEET. LOCALLY DISH FLOORS TO FLOOR DRAINS. FLOOR DRAIN ELEVATION 953.96 TYP.

**KEY NOTES:** 

WELL HEAD PER . PROVIDE PUMP PRELUBE SYSTEM PER SPECIFICATIONS. COORDINATE CONNECTION LOCATION IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. SEE A FOR DETAIL.

- 2) 8-INCH COUPLING. CONTRACTOR TO COORDINATE FINAL PIPE ELEVATION WITH DIMENSIONS OF WELL DISCHARGE HEAD.
- 8-INCH UP-TURNED TEE BRANCH WITH A BLIND FLANGE AND TAP FOR A 2-INCH COMBINATION AIR RELEASE AND VACUUM RELIEF VALVE. PROVIDE ISOLATION VALVE UPSTREAM OF AIR RELEASE VALVE, ROUTE DISCHARGE 24 INCHES ABOVE FINISHED FLOOR AND ABOVE HUB DRAIN WITH 24 STAINLESS STEEL MESH SCREEN
- 4) 8-INCH SWING CHECK VALVE AND LIMIT SWITCH.
- 5 PRESSURE TRANSDUCER AND PRESSURE GAUGE. PROVIDE ISOLATION VALVE UPSTREAM OF PRESSURE GAUGE AND PRESSURE TRANSDUCER.
- RAW WATER SAMPLE TAP.
- PROVIDE PVC CARRIER PIPE FOR WATER SUPPLY PIPING UNDER GROUND TO PERMIT REMOVAL OF UNDERGROUND WATER SUPPLY. PROVIDE LONG SWEEP 90° ELBOWS.
- 8-INCH MAGNETIC FLOW METER.
- 9 8-INCH BUTTERFLY VALVE.
- (10) 3/4-INCH CHLORINE INJECTION TAP. PIPED FROM CHEMICAL FEED SYSTEM. TAP IN LOWER QUADRANT OF PIPE. C
  - 3/4-INCH FLUORIDE INJECTION TAP. PIPED FROM CHEMICAL FEED SYSTEM. TAP IN LOWER QUADRANT OF PIPE. C
- 12) FINISHED WATER SAMPLE TAP IN THE VERTICAL PIPING BENEATH THE ELBOW.
- (13) CHEMICAL STORAGE TANK. SEE DETAIL **ASM5.3**.
- CHEMICAL FEED PUMP AND WALL MOUNTED CHEMICAL FEED PUMP STAND.
- 2-INCH PVC CONDUIT TO CONVEY CHEMICAL TUBING.
- (16) #4@48" VERTICAL MASONRY REINFORCING, (TYP.)
- PROVIDE (1)#5 VERTICAL MASONRY REINFORCING BAR AT CORE ADJACENT TO OPENING.
- (18) SKYLIGHT ABOVE PUMP BASE. SEE DETAIL. ASM5.1
- 19 EMERGENCY CHEMICAL EYEWASH SHOWER STATION. ASM5.3
- (20) FINISHED WATER SAMPLE FAUCET ABOVE SERVICE SINK.
- 4"X3" DOWNSPOUT TO DRAIN INTO STORM DRAIN PIPE, SEE SITE PLAN.
- (22) GROUT FULL ALL CMU CORES AT RATED WALLS.
- MCC/SCC PAD

  (K)

  E5.1
- 24) MCJ-2 **ASM5.1**
- DOWNSPOUT W/ SPLASH PAD.

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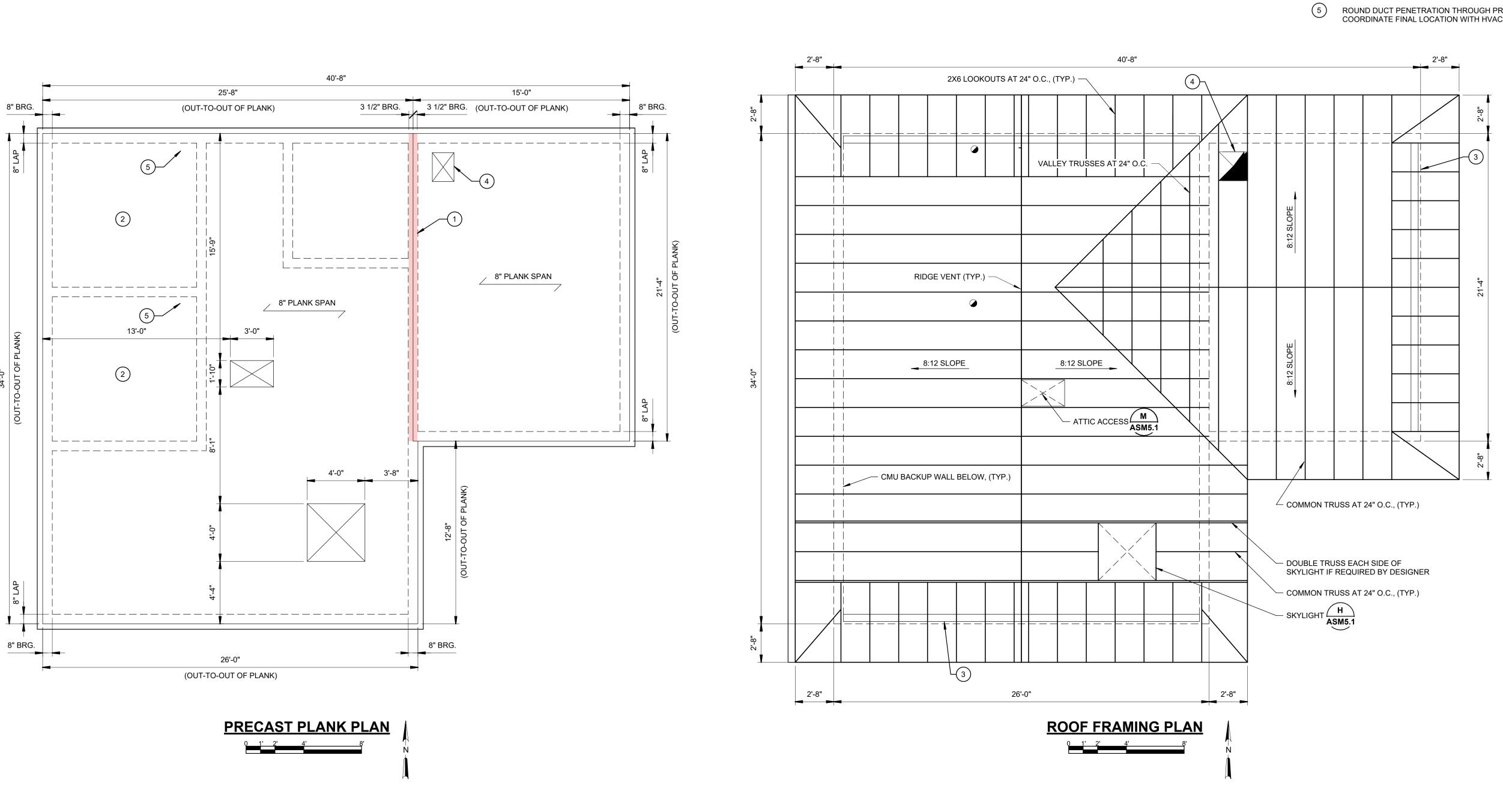
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SHEET 17 **ASM1.2** 

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- ROOF LOADS Lr = 20 PSF S = 25.4 PSF D= 10 PSF
- PLANK LOADS L = 20 PSF D = 5 PSF (COLLATERAL)

**KEY NOTES:** 

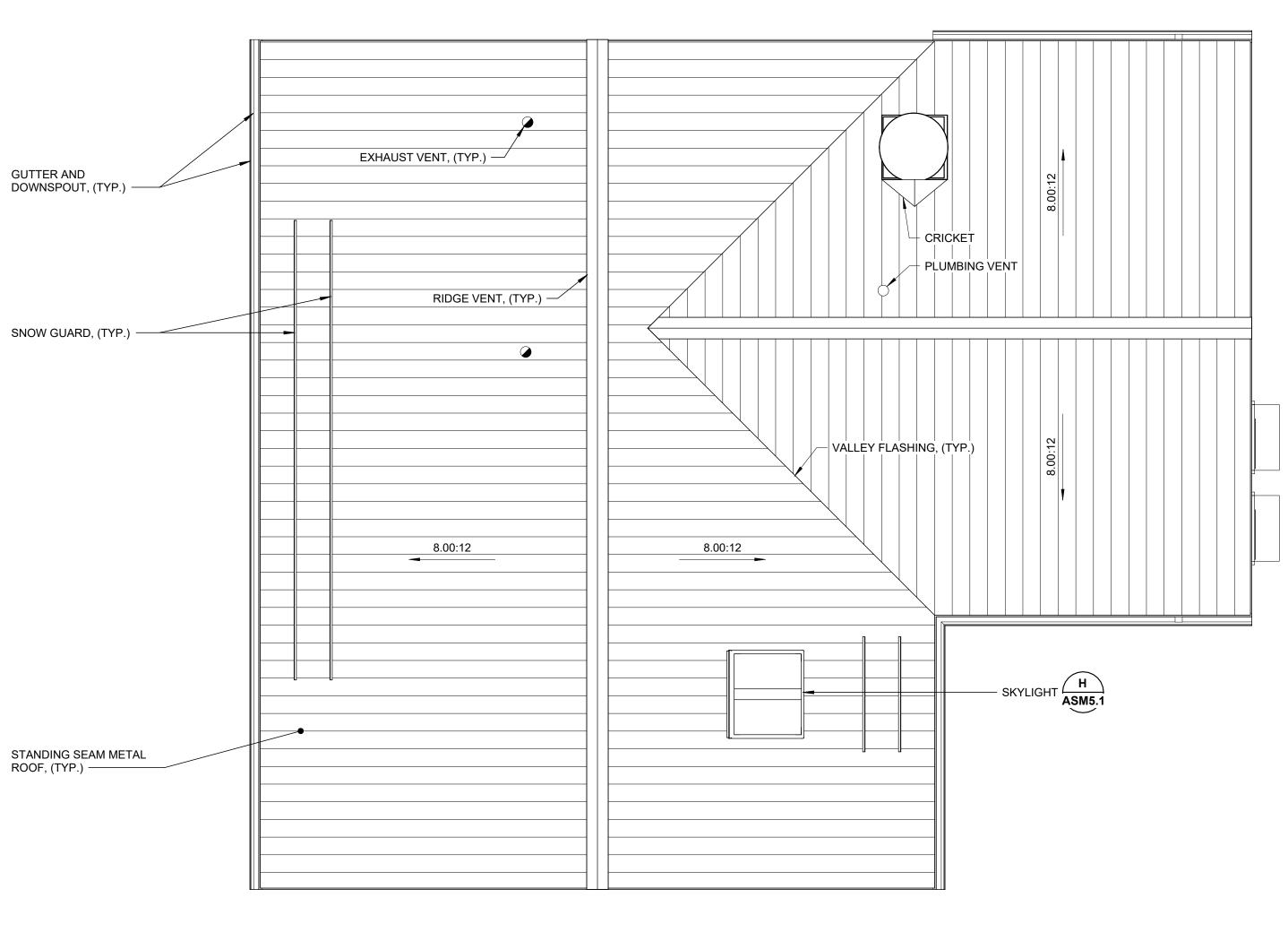
- 2X10 ROOF TRUSS BEARING. D+S = 554 PLF
- PLANK ABOVE FLOURIDE ROOM SHALL BE 2-HOUR FIRE-RATED.
- 2X6 STUD WALL ABOVE CMU BACKUP WALL.
- OPENING FOR HVAC EQUIPMENT. COORDINATE WITH MANUFACTURER AND LOCATION OF TRUSSES.
- ROUND DUCT PENETRATION THROUGH PRECAST PLANK. COORDINATE FINAL LOCATION WITH HVAC DRAWINGS.

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**MIKE FORSLUND** 



SHEET 18 **ASM1.3** 



ROOF PLAN

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ROOF PLAN

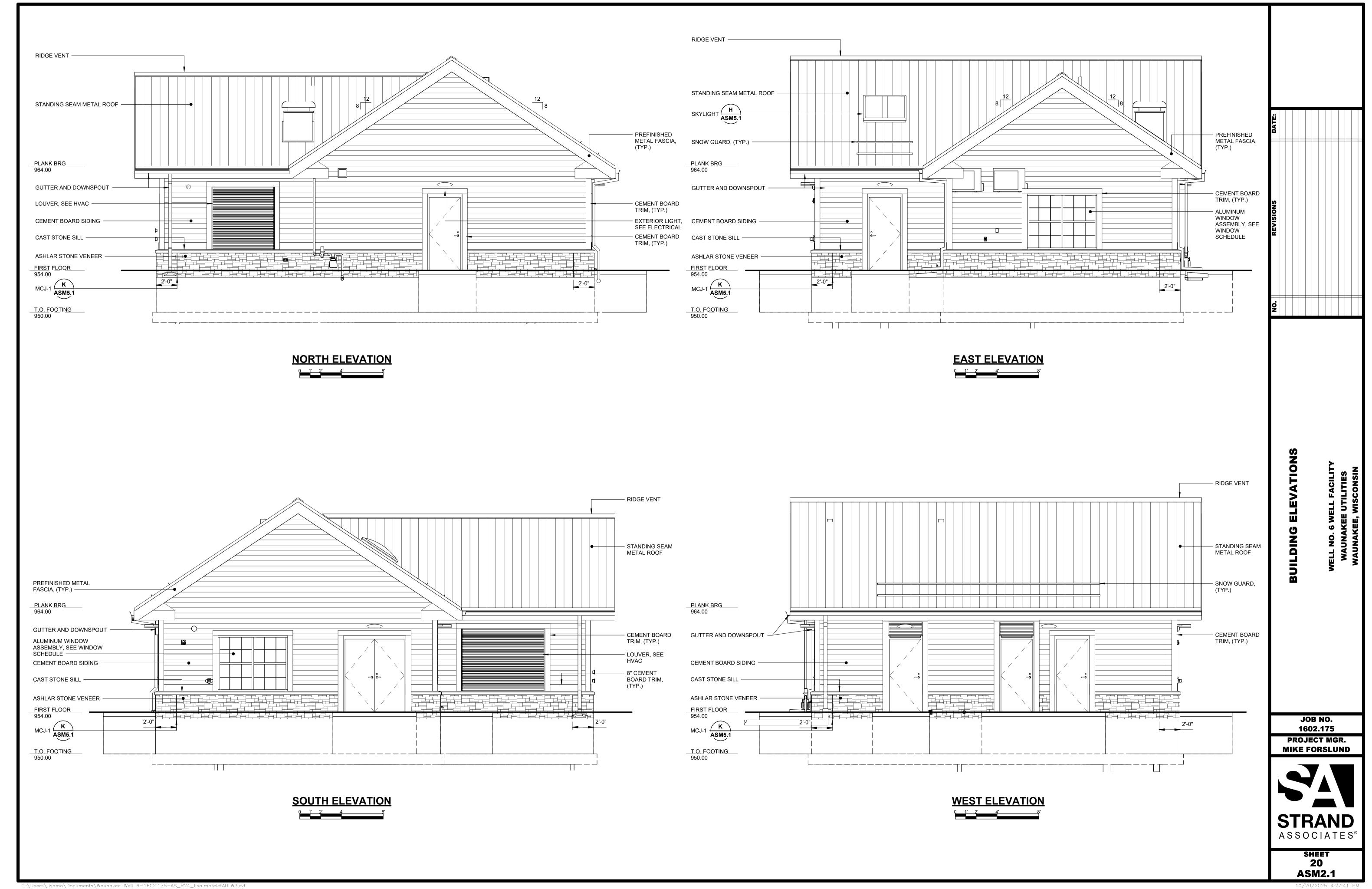
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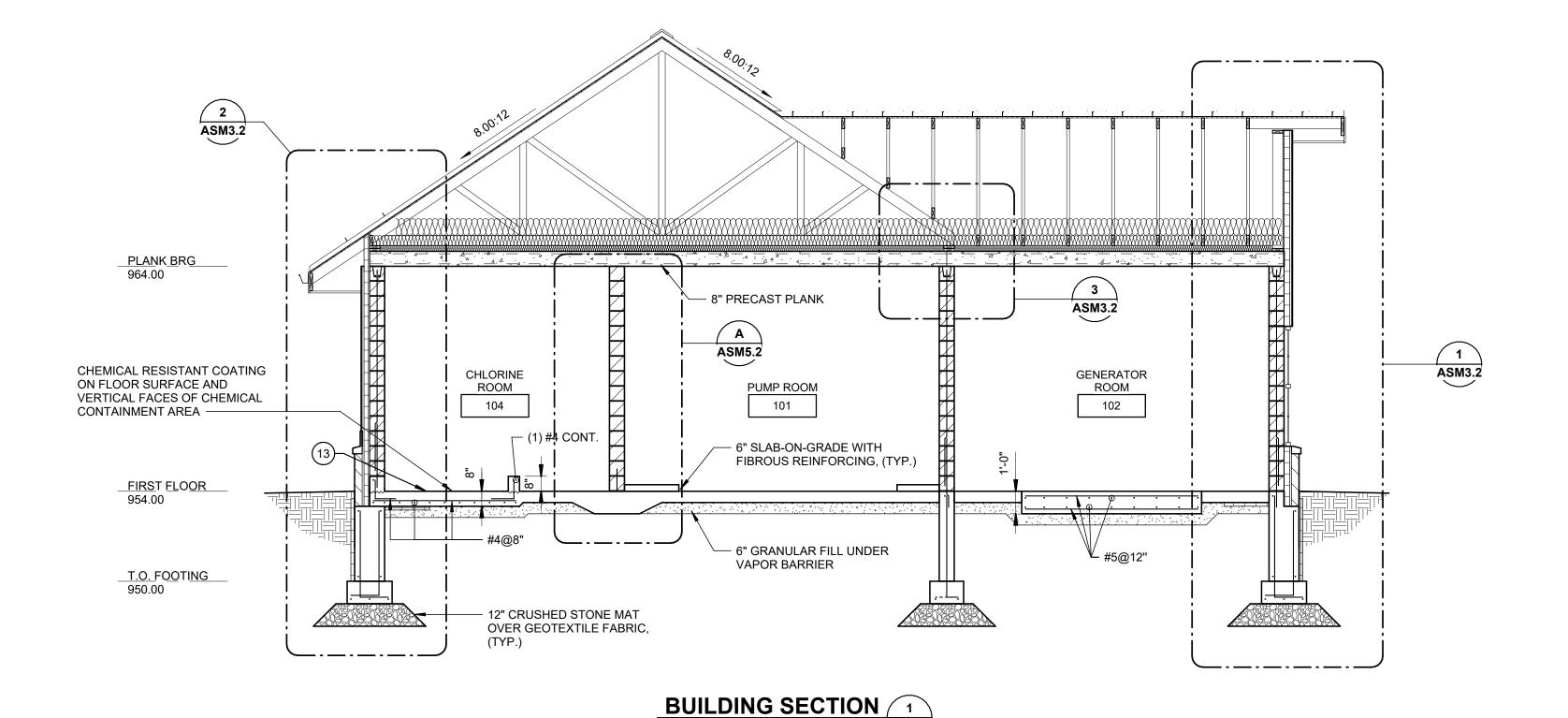
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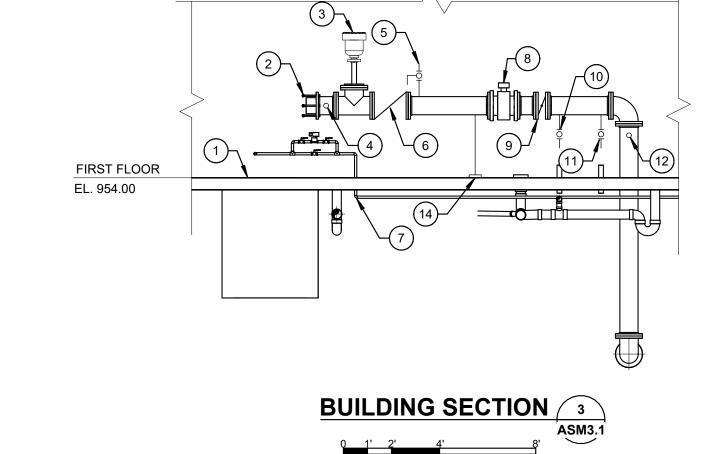
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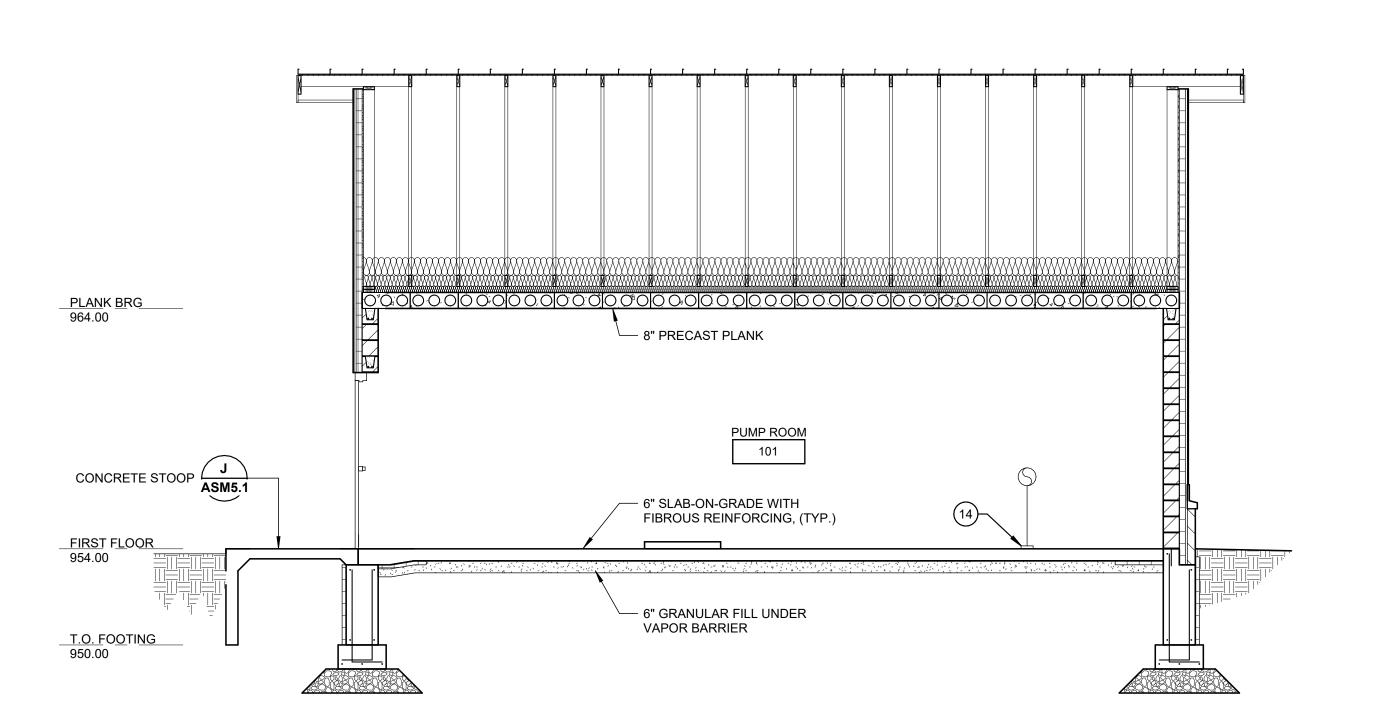


SHEET 19 ASM1.4









BUILDING SECTION 2

2 8-INCH COUPLING.

2-INCH COMBINATION AIR RELEASE AND VACUUM RELIEF VALVE. PROVIDE ISOLATION VALVE UPSTREAM OF AIR RELEASE VALVE, ROUTE DISCHARGE 24 INCHES ABOVE FINISHED FLOOR AND ABOVE HUB DRAIN WITH 24 STAINLESS STEEL MESH SCREEN.

4 RAW WATER SAMPLE TAP.

5 PRESSURE TRANSDUCER AND PRESSURE GAUGE. PROVIDE ISOLATION VALVE UPSTREAM OF PRESSURE GAUGE AND PRESSURE TRANSDUCER.

(1) WELL HEAD PER ASM5.1. PROVIDE PUMP PRELUBE SYSTEM

PER SPECIFICATIONS. COORDINATE CONNECTION LOCATION IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

6 8-INCH SWING CHECK VALVE.

PROVIDE PVC CARRIER PIPE FOR WATER SUPPLY PIPING UNDER GROUND TO PERMIT REMOVAL OF UNDERGROUND WATER SUPPLY. PROVIDE LONG SWEEP 90° ELBOWS.

8 8-INCH MAGNETIC FLOW METER.

8-INCH BUTTERFLY VALVE.

SEE A FOR DETAIL.

**KEY NOTES** 

1/2-INCH CHLORINE INJECTION TAP. PIPED FROM CHEMICAL FEED SYSTEM. TAP IN LOWER QUADRANT OF PIPE. C

1/2-INCH FLUORIDE INJECTION TAP. PIPED FROM CHEMICAL FEED SYSTEM. TAP IN LOWER QUADRANT OF PIPE. C

12) FINISHED WATER SAMPLE TAP.

PROVIDE SIMILAR REINFORCING AT BOTH CHEMICAL CONTAINMENT AREAS.

14) PIPE SUPPORT EVERY 8 FEET AS SPECIFIED.

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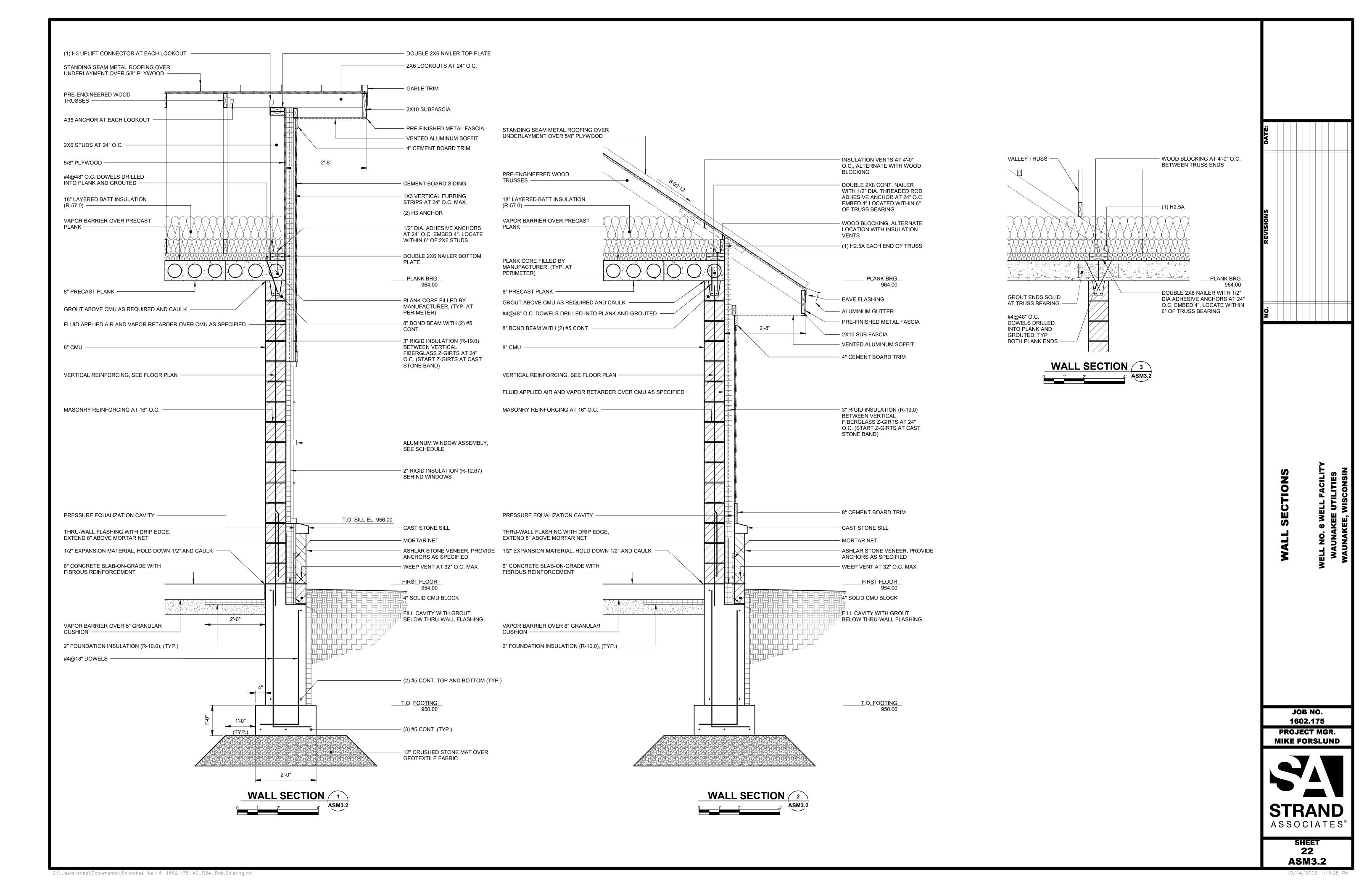
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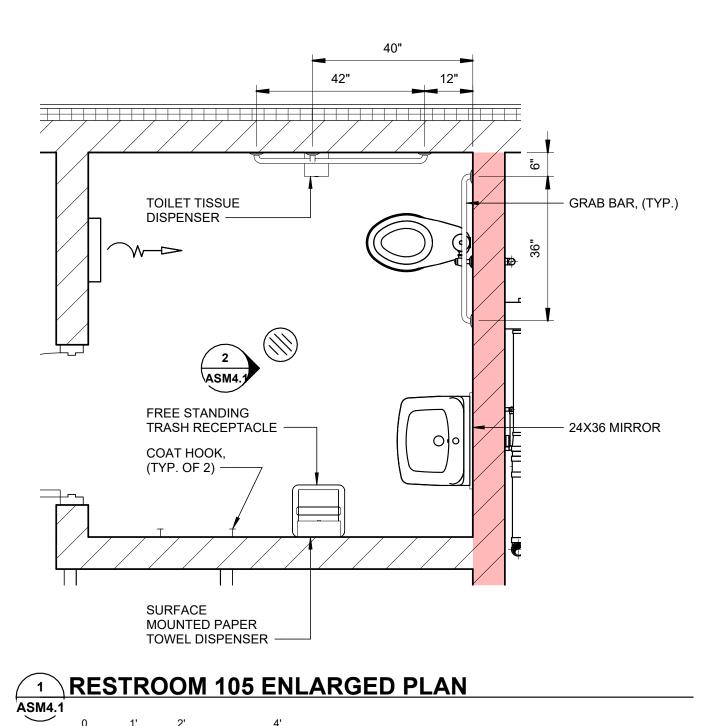
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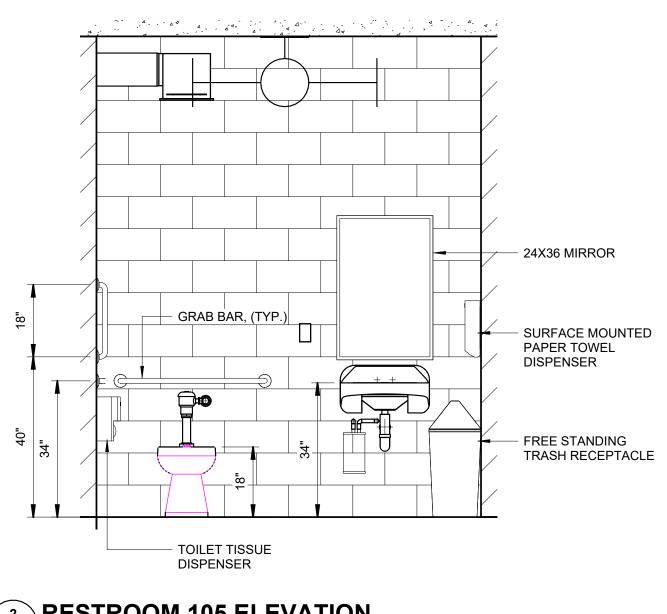
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MIKE FORSLUND



SHEET 21 ASM3.1







RESTROOM 105 ELEVATION

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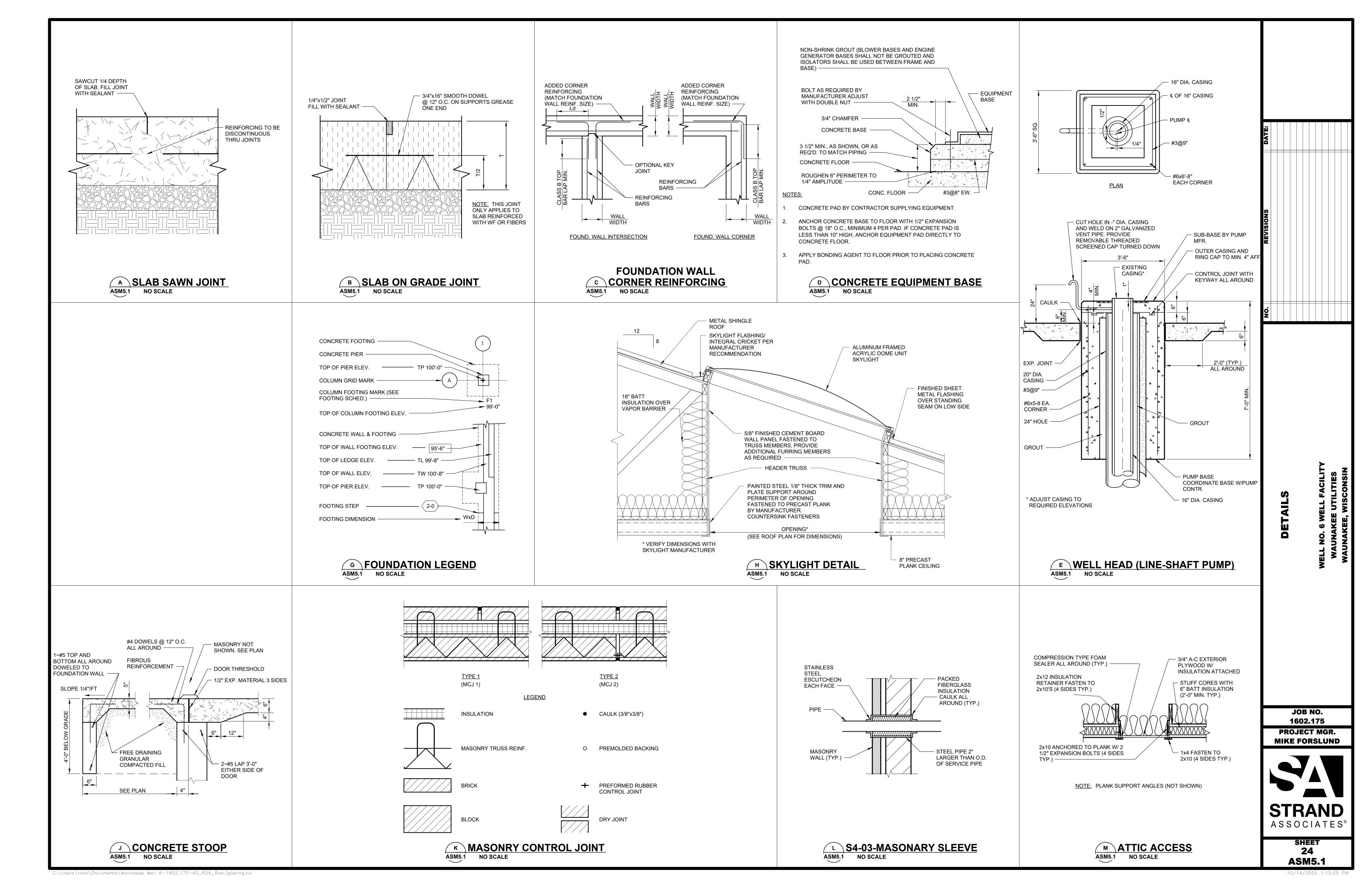
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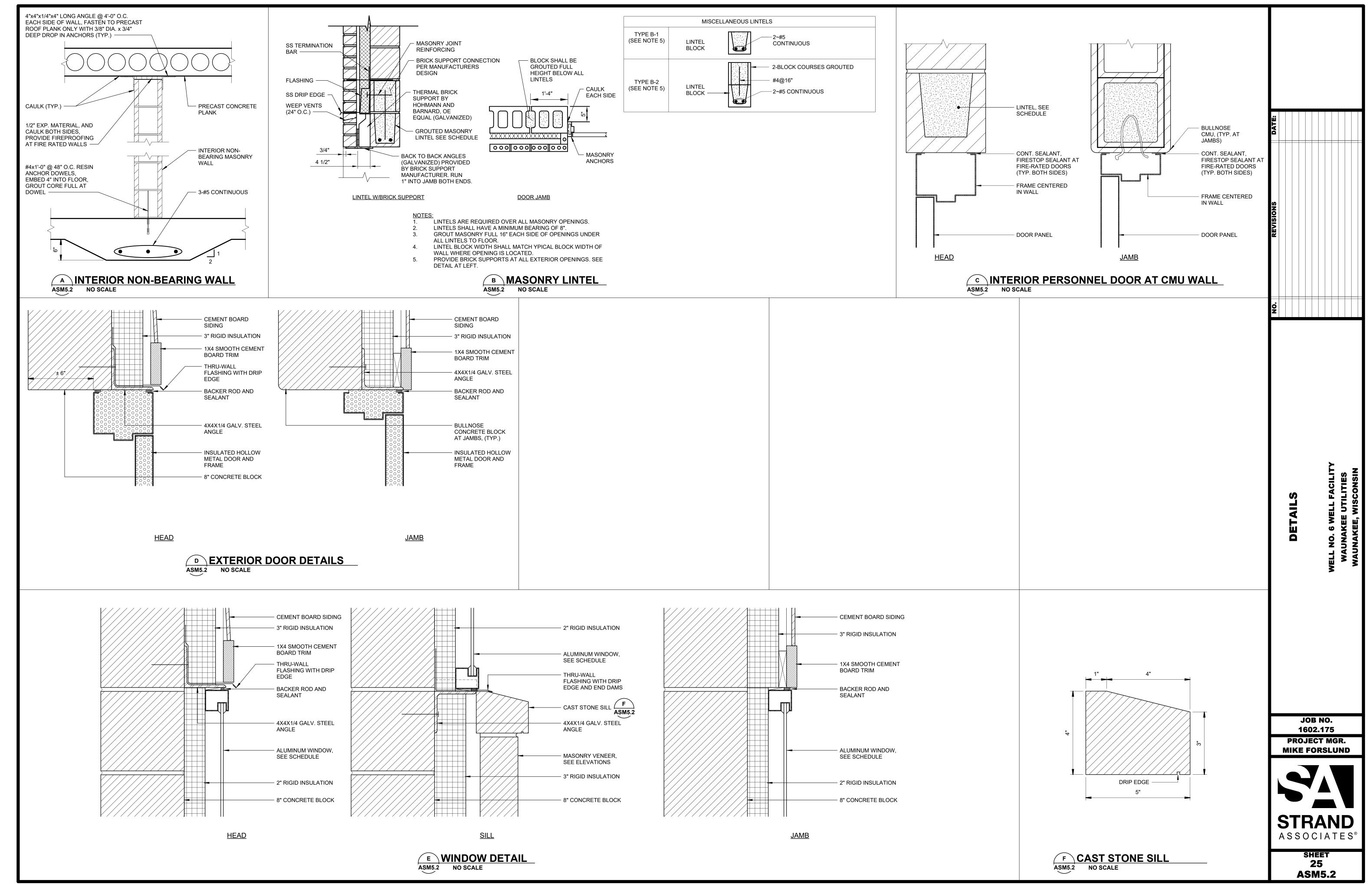
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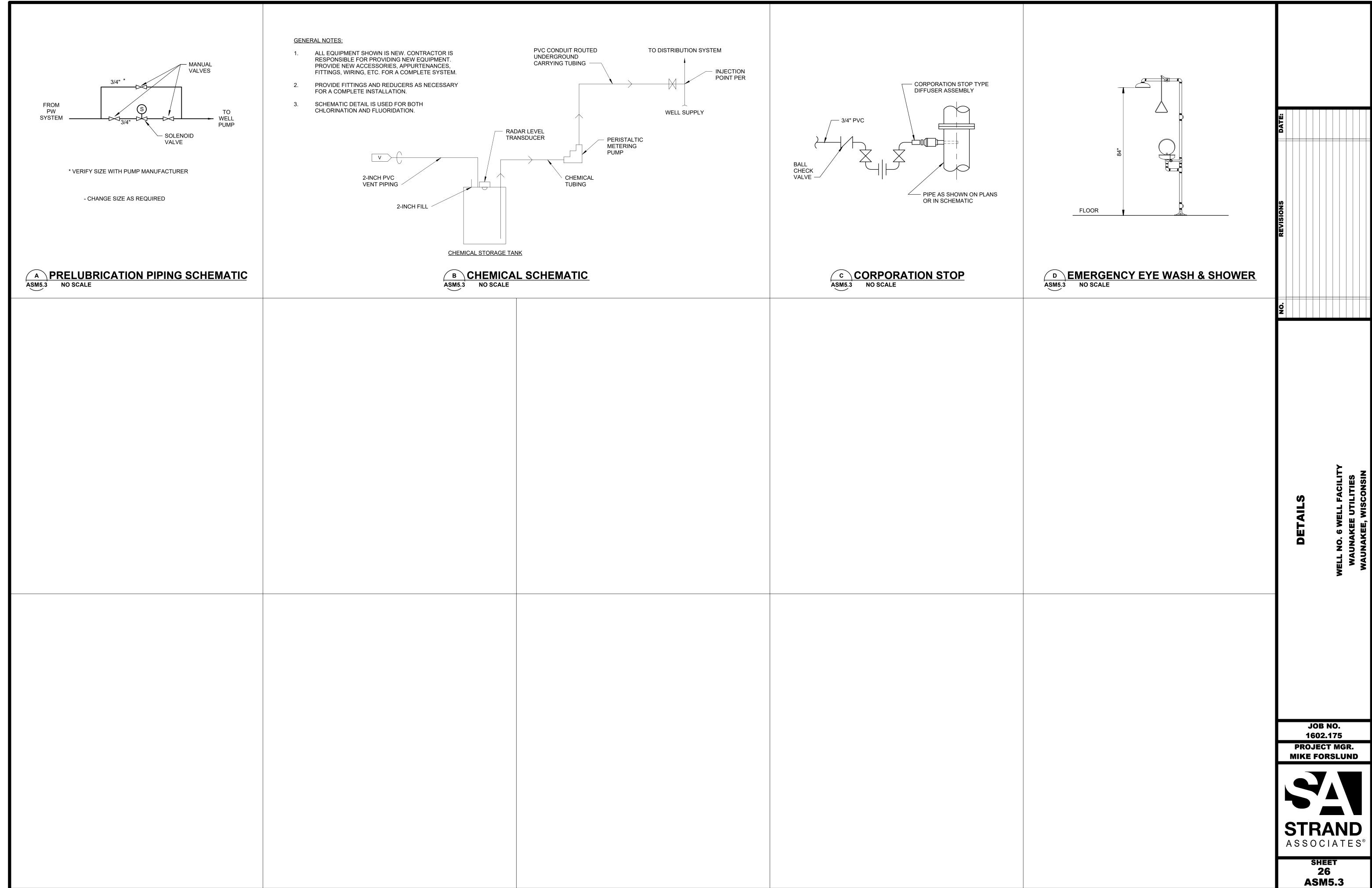
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SHEET 23 ASM4.1







	STRUCTURAL I	DESIGN CRITERIA	
_	BUILDING CODE		2015 IBC
DESIGN	CONCRETE DESIGN CODE		ACI 318-14
ESI	MASONRY DESIGN CODE		ACI 350-13
<u>□</u> 0	OCCUPANCY CATEGORY		III
	UNIFORMLY DISTRIBUTED (PSF)		100
FLOOR LIVE LOAD	CONCENTRATED (LBS)		EQUIPMENT OPERATING WEIGHTS VARY
OOR L	IMPACT		FROM EQUIP. MFR.
FLC	REDUCTION		PER IBC CODE
	MINIMUM ROOF LIVE LOAD (PSF)		20
AD	GROUND SNOW LOAD (Pg) (PSF)		30
ROOF LIVE LOAD	FLAT ROOF SNOW LOAD (Pf)		N/A
Д >	SLOPED ROOF SNOW LOAD		25.4
<u> </u>	SNOW EXPOSURE FACTOR (Ce)		1.0
<u>P</u>	SNOW LOAD IMPORTANCE FACTOR (Is)		1.1
RO	THERMAL FACTOR (Ct) -	1.0	
	DRIFT LOADS		PER IBC CODE
	BASIC 3-SECOND GUST WIND SPEED (MPH	4)	120
9	WIND IMPORTANCE FACTOR (IW)	•,	1
ð.	WIND EXPOSURE	C	
<b>D</b> L	INTERNAL PRESSURE COEFFICIENT ( GCpi	0.18	
WIND LOAD	COMPONENTS AND CLADDING DESIGN WII	•	PER IBC CODE
	SEISMIC IMPORTANCE FACTOR ( IE)	ND FRESSORE (FSF)	1.25
	SITE CLASS		D
	SITE CEASS	SDS	0.064
_	SPECTRAL RESPONSE COEFFICIENTS	SD1	
Ě	SEISMIC DESIGN CATEGORY	אַטוּ	0.05 C
EARTHQUAKE DESIGN DATA	BASIC SEISMIC FORCE RESISTING SYSTEM	M (ALL CONCRETE BLOCK BUILDINGS)	ORDINARY REINFORCED MASONRY SHEAR WALLS
g	RESPONSE MODIFICATION COEFFICIENT (I	2	
Ä	DESIGN BASE SHEAR		.04W
EA	ANALYSIS PROCEDURE		EQUIVALENT LATERAL FORCE ANALYSIS
OTHER LOADS	LATERAL FARTH PRESSURE (PARTICLE)	DRY - ACTIVE PRESSURE	37
ÆR L	LATERAL EARTH PRESSURE (PCF EQUIV. FLUID)	DRY - AT-REST PRESSURE	56
Ť0		BELOW WATER TABLE	80

#### GENERAL STRUCTURAL NOTES

- FOR DOOR, WINDOW, LINTEL, AND ROOM FINISH SCHEDULES SEE THIS SHEET
- 2. PROVIDE LINTELS AS PER DOOR AND WINDOW SCHEDULES AND PER LINTEL SCHEDULES ON THIS SHEET
- 3. SEE (E/C5.1) FOR FILL AND BACKFILL REQUIREMENTS
- 4. PROVIDE MINIMUM LAP LENGTHS AS SHOWN ON LAP LENGTH SCHEDULE ON THIS SHEET
- 5. PROVIDE MINIMUM CLEAR COVER OVER REINFORCING STEEL PER THE TABLE ON THIS
- SEE (G/ASM5.1) FOR FOUNDATION LEGEND
- 7. HORIZONTAL REINFORCING BARS IN WALLS SHALL BE PLACED OUTSIDE OF VERTICAL BARS UNLESS SHOWN OTHERWISE
- 8. FOR HORIZONTAL REINFORCING AT FOUNDATION WALL CORNERS, SEE (C/ASM5.1)
- O. UNLESS NOTED OTHERWISE, PROVIDE #4@48"
  VERTICAL REINFORCING FULL HEIGHT CENTERED IN
  CMU WALLS. LAP BARS 2'-0". PROVIDE #4@48"x2'-6"
  LONG DRILLED ADHESIVE DOWELS EMBEDDED 6"
  INTO SLAB OR FOUNDATION WALL. EXTEND BARS 6"
  INTO BOND BEAM AT TOP OF WALL.
- 10. UNLESS NOTED OTHERWISE, PROVIDE VERTICAL REINFORCING BARS FULL HEIGHT CENTERED IN CMU CORES ON EACH SIDE OF OPENINGS 3'-0" AND GREATER IN WIDTH. LAP BARS 2'-0"/ PROVIDE DRILLED ADHESIVE DOWELS EMBEDDED 6" INTO SLAB OR FOUNDATION WALL. EXTEND BARS 6" INTO BOND BEAM AT TOP OF WALL. REINFORCING SIZE PER PLAN.
- 11. WHERE ADHESIVE ANCHOR DOWELS ARE CALLED OUT ON DRAWINGS, ROUGHEN JOINT SURFACE TO 1/4" AMPLITUDE MINIMUM, PROVIDE BONDING AGENT AND HYDROPHILIC WATERSTOP AND EMBED DOWELS 6" MIN INTO EXISTING CONCRETE UNLESS NOTED OTHERWISE.
- 12. WHERE PIPING PASSES THROUGH MASONRY WALLS, PROVIDE SLEEVE PER (L/ASM5.1)
- 13. WHERE PIPING PASSES BENEATH FOUNDATION WALLS, ENCASE PER (F/ASM5.1)

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MASONR	Y LAP LENG	GTHS FOR

BAR SIZE	8" CMU	12" CMU
#3	1'-3"	1'-3"
#4	1'-3"	1'-3"
#5	1'-3"	1'-3"
#6	2'-3"	2'-3"
#7	3'-3"	2'-3"

#### NOTES:

- 1. USE LAP LENGTHS IN THIS TABLE UNLESS NOTED...
- 2. TABLE DOES NOT APPLY FOR COLUMNS.
- 3. TABLE DOES NOT APPLY FOR MULTIPLE BARS PER CELL.
- 4. LAP LENGTHS FOR CMU ARE BASED ON f'm = 2500 PSI.

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

5000 PSF

ITEM	MINIMUM CLEAF COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH, LIQUID, OR WEATHER	2"
SLABS, WALLS, OR JOISTS NOT EXPOSED TO WEATHER, LIQUID, OR IN CONTACT WITH GROUND	1"
BEAMS AND COLUMNS NOT EXPOSED TO WEATHER, LIQUID, OR IN CONTACT WITH GROUND	1 1/2"

**ALLOWABLE SOIL BEARING (NET):** 

- 1. CLEAR COVER IS MEASURED FROM MEMBER FACE TO NEAREST EDGE OF REINFORCING BAR
- 2. CLEAR COVER FOR BEAMS AND COLUMNS IS MEASURED TO NEAREST EDGE OF STIRRUPS.
- 3. FOR WALLS AND SLABS WITH SINGLE MAT OF REINFORCING, PLACE REBAR WHERE SHOWN ON THE DRWGS. WHERE COVER IS NOT INDICATED, CENTER SINGLE MAT OF REINFORCING IN WALL OR SLAB.

MIN	NIMUM LAP	LENGTHS FO	OR REINFOR	CING BARS
	VERT. BARS	HORIZ. BARS	TOP MAT BARS	BOTTOM MAT BARS
#4	1'-6"	1'-10"	1'-10"	1'-6"
#5	1'-9"	2'-2"	2'-2"	1'-9"
#6	2'-0"	2'-7"	2'-7"	2'-0"
#7	2'-11"	3'-8"	3'-8"	2'-11"
#8	3'-3"	4'-2"	4'-2"	3'-3"
#9	4'-0"	5'-2"	5'-2"	4'-0"
#10	4'-11"	6'-4"	6'-4"	4'-11"
#11	5'-10"	7'-8"	7'-8"	5'-10"
NOTES:				

1. WHERE TWO BARS OF DIFFERENT SIZE ARE LAPPED, USE LAP LENGTH FOR SMALLER...

LINTEL SCHEDULE				
OPENING TYPE	OPENING CLEAR WIDTH(S)	LINTEL TYPE		
LOUVER	6'-0"	B-2		
LOUVER	8'-0"	B-2		
	OPENING TYPE  LOUVER	OPENING TYPE OPENING CLEAR WIDTH(S)  LOUVER 6'-0"		

#### NOTES.

1. SEE DOOR SCHEDULE FOR LINTELS AT DOOR OPENINGS

2. SEE (B/ASM5.2) FOR LINTEL DETAIL

REVISIONS DATE:					
NO.					

AND STRUCTURAL SCHEDUI

WELL NO. 6 WEI WAUNAKEE I

JOB NO. 1602.175 PROJECT MGR.



SHEET 27 ASM6.1

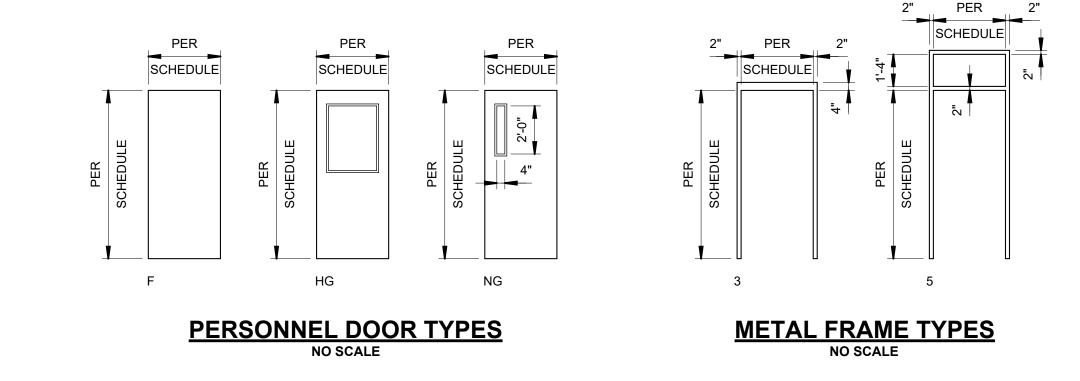
							PERSONN	EL DOOR	SCHEDULE							
				DOOR			FRA	ME		HARDWA	RE GROUP			DETAILS		
DOOR NUMBER	SIZE (W x H)	MATERIAL	TY	/PE	SW	/ING	MATERIAL	TYPE	FIRE RATING	ACTIVE	INACTIVE	LINTEL TYPE	HEAD	JAMB	SILL	NOTES
NOWBER		WATERIAL	ACTIVE	INACTIVE	ACTIVE	INACTIVE	IVIATERIAL	ITPE		ACTIVE	INACTIVE		ПЕАО	JAIVID	SILL	
101A	(2)2'-10"x7'-0"	IHM	F	F	LHR	RHR	IHM	3		1	3	B-2	D/ASM5.2	D/ASM5.2	J/ASM5.1	
101B	(1)3'-0"x7'-0"	HM	F		RHR		HM	3		1		B-2	D/ASM5.2	D/ASM5.2	J/ASM5.1	
101C	(1)3'-0"x7'-0"	IHM	F		LHR		IHM	3		1		B-2	D/ASM5.2	D/ASM5.2	J/ASM5.1	
101D	(1)3'-0"x7'-0"	IHM	F		LHR		IHM	3		1		B-2	D/ASM5.2	D/ASM5.2	J/ASM5.1	
102A	(1)3'-0"x7'-0"	НМ	F		RHR		HM	3		4		B-2	C/ASM5.2	C/ASM5.2		
103A	(1)3'-0"x7'-0"	FRP	F		LHR		FRP	5		2		B-2	D/ASM5.2	D/ASM5.2	J/ASM5.1	2
104A	(1)3'-0"x7'-0"	FRP	F		LHR		FRP	5		2		B-2	D/ASM5.2	D/ASM5.2	J/ASM5.1	2
105A	(1)3'-0"x7'-0"	НМ	F		RHR		HM	3		5		B-1	C/ASM5.2	C/ASM5.2		1
LEGEND:																
		MATERI	AL					DOOR TYPE			DOOR SWING					

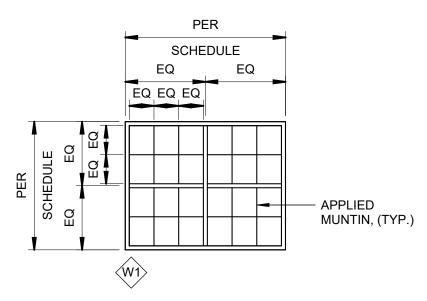
PROVIDE 1" UNDERCUT ON DOOR.
 PROVIDE LOUVER IN TRANSOM ABOVE DOOR. COORDINATE WITH HVAC.

I LEGEND.					
	MATERIAL		DOOR TYPE		DOOR SWING
НМ	HOLLOW METAL	F	FLUSH	LH	LEFT HAND
IHM	INSULATED HOLLOW METAL	HG	HALF GLASS	RH	RIGHT HAND
FRP	FIBERGLASS	NG	NARROW GLASS	LHR	LEFT HAND REVERSE
WD	WOOD	SG	SQUARE GLASS	RHR	RIGHT HAND REVERSE
		FG	FULL GLASS		
NOTEO					

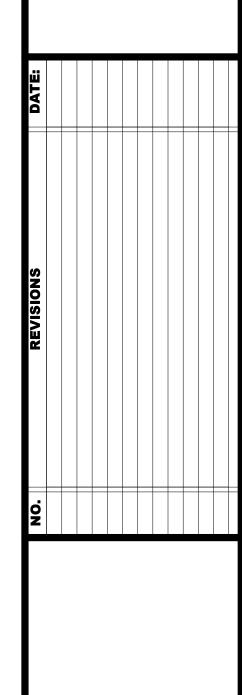
WINDOW SCHEDULE													
NUMBER	SIZE (WxH)	SILL	WINDOW	FRAME	GLAZING	FIRE RATING	LINTEL TYPE		DETAILS		NOTES		
NOMBLIX	SIZE (VVXI I)	ELEVATION	TYPE	MATERIAL	TYPE	TINETOTING		HEAD	SILL	JAMB	NOTES		
W1	6'-8"x5'-4"	956'-0"	FIXED	AL	SPAN			E/ASM5.2	E/ASM5.2	E/ASM5.2			
LEGEND:													
		MATE	ERIAL					GLAZIN	G TYPE				
AL	ALUMINUM					SPAN	SPANDREL GLA	ASS					
NOTES:													
1. XXX.													

ROOM	DOOM NAME	FLOOD	DACE		V	VALL		CE	ILING	NOTE
NUMBER	ROOM NAME	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	TYPE	HEIGHT	NOTES
101	PUMP ROOM	F1	B1	W1	W1	W1	W1	C1	10'-0"	
102	GENERATOR ROOM	F1	B1	W2	W2	W2	W2	C1	10'-0"	
103	FLUORIDE ROOM	F1	B1	W1	W1	W1	W1	C1	10'-0"	1
104	CHLORINE ROOM	F1	B1	W1	W1	W1	W1	C1	10'-0"	1
105	RESTROOM	F1	B1	W1	W1	W1	W1	C1	10'-0"	
2005	FLOOR	2225	BASE	DIDTION	2005	WALL	IDTION	2005	CEILING	IDTION
CODE	DESCRIPTION	CODE		RIPTION	CODE	DESCR		CODE	DESCR	IPTION
F1	SEALED CONCRETE	B1	NONE		W1	PAINT CONCRE	ETE BLOCK	C1	PAINT PRECAS	ST PLANK
					W2	PAINT CONCRE ABSORBTIVE B				
					W2					





WINDOW TYPES
NO SCALE



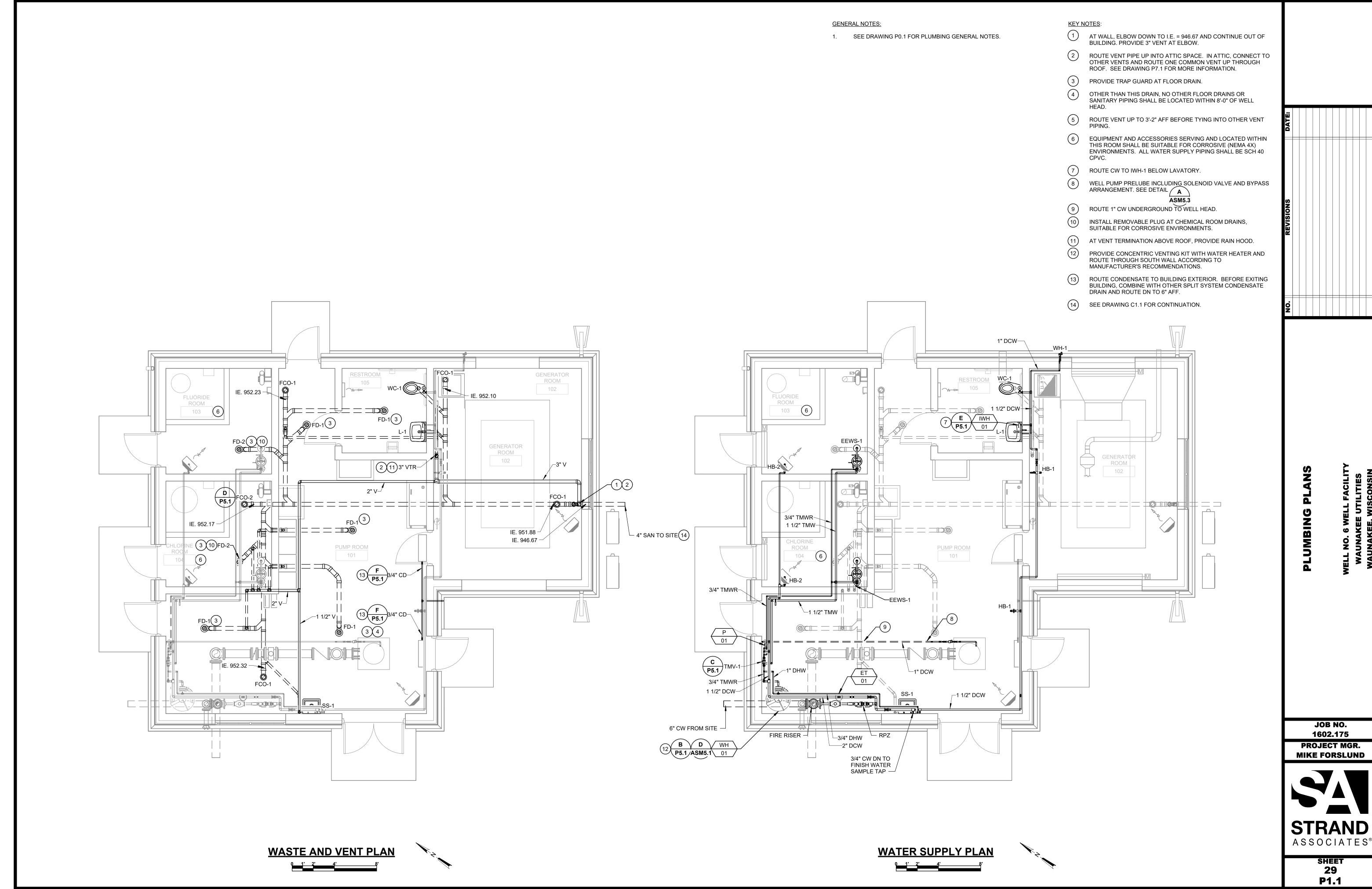
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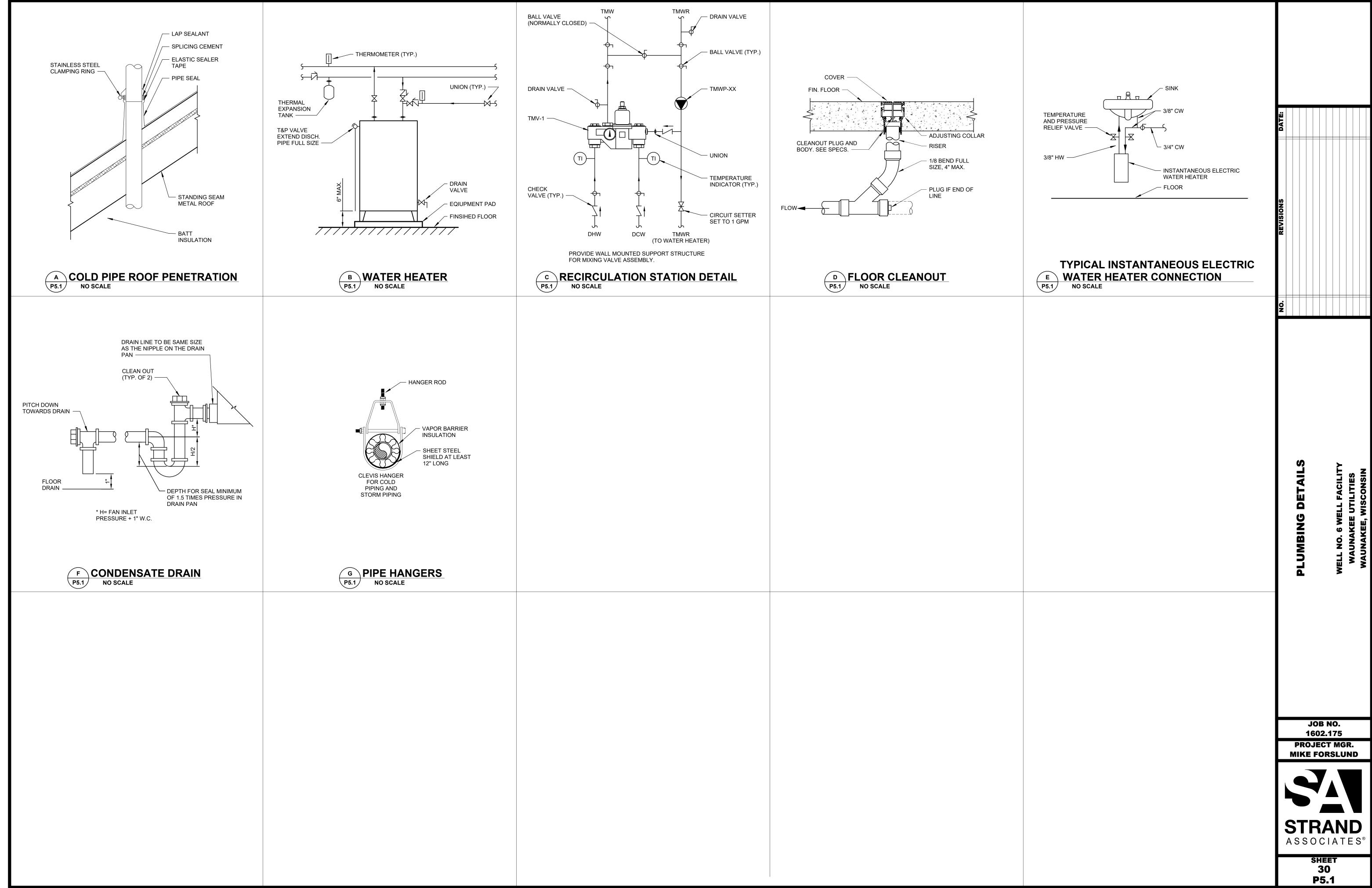
PROJECT MGR. MIKE FORSLUND



SHEET 28 ASM6.2



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							F	PUMP SC	HEDU	LE							
	BELL & MOTOR DISCHARGE ELECTRICAL																
					GOSSETT	FLOW RATE	TOTAL HEAD	MOTOR SIZE	SPEED	SUCTION SIZE	SIZE				STARTER	DISCONNECT	
UNIT	NO.	LOCATION	SERVICE	TYPE	MODEL NO.	(GPM)	(FT. OF WATER)	(HP)	(RPM)	(IN.)	(IN.)	VOLTAGE	PHASE	STARTER BY	TYPE	BY	REMARKS
P-0	)1	PUMP ROOM	TMW RECIRC	INLINE	E <sup>3</sup> -4	1	4.5	FRAC.	VARIABLE	1/2"	1/2"	115	1	MANUFACTURER	ECM	DIV. 26	

				DOME	ESTIC W	ATER I	HEATER S	SCHEDU	LE				
						FLUE	TEMPERATURE	RECOVERY	TANK	Е			
		A.O. SMITH	INPUT	OUTPUT	AIR INTAKE	EXHAUST	RISE	CAPACITY	CAPACITY				1
UNIT NO.	LOCATION	MODEL NO.	(MBH)	(MBH)	(IN.)	(IN.)	(°F)	(GPH)	(GAL.)	VOLTAGE	PHASE	FLA	REMARKS
WH-01	PUMP ROOM	BTH-300(A)	300	291	4	4	90	384	119	120	1	5	

INSTANTANEOUS WATER HEATER SCHEDULE													
						TEMPERATURE	ELEC	TRICAL SEC	CTION				
				INPUT	FLOW	RISE				WEIGHT			
UNIT NO.	LOCATION	MANUFACTURER	MODEL	(KW)	(GPM)	(°F)	VOLTAGE	PHASE	FLA	(LBS.)	REMARKS		
IWH-01	RESTROOM	EEMAX	SPEX4208T	4.1	0.5	56	208	1	20	4			

Pl	LUMBING EX	KPANSIC	N TANK	SCHEDU	LE
				TANK VOLUME	
UNIT NO.	MANUFACTURER	MODEL	SERVICE	(GAL.)	REMARKS
ET-01	BELL & GOSSET	PT-5	COLD WATER	2	

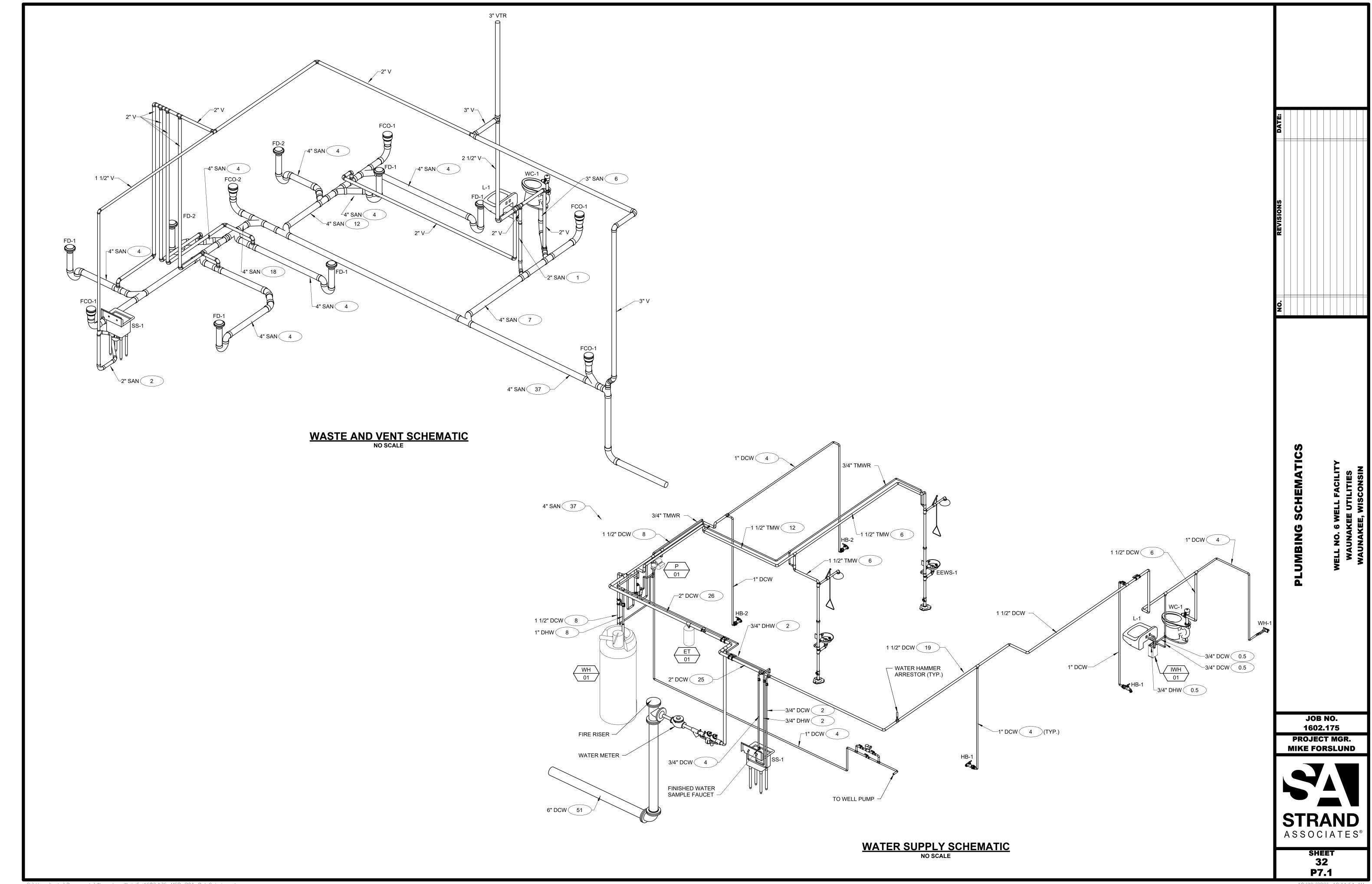
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WELL NO. 6
WAUNAK

JOB NO. 1602.175 PROJECT MGR. MIKE FORSLUND



SHEET 31 **P6.1** 



# **GENERAL NOTES:** 1. SEE DRAWING FP0.1 FOR PLUMBING GENERAL NOTES. KEY NOTES: ALL FIRE PROTECTION PIPING, HEADS, AND DEVICES IN THIS ROOM SHALL BE SUITABLE FOR CORROSIVE ENVIRONMENTS. PIPING SHALL BE SCH 80 CPVC. SPRINKLERS SHALL BE SIDEWALL STYLE.

OVERHEAD SYSTEM

WATER FLOW SWITCH(ES) —

SYSTEM GAUGES —

MAIN DRAIN VALVE -

TAMPER SWITCH -

TO DOMESTIC WATER SYSTEMS, SEE

PLUMBING DRAWINGS —

— PROVIDE BALL DRIP BEFORE WALL PENETRATION.

- TEST DRAIN TO

INSTALLATION

DOUBLE CHECK
 ASSEMBLY APPROVED
 FOR VERTICAL

GRADE

/ WATER SUPPLY

NOTE: SUPPORT PIPING AS NECESSARY FROM FLOOR OR WALL

FP1.1 FIRE RISER
NO SCALE

FINISHED FLOOR

— FULL SIZE BYPASS WITH VALVE AND TAMPER SWITCH

— CHECK VALVE AND PIPING TO F.D.C.

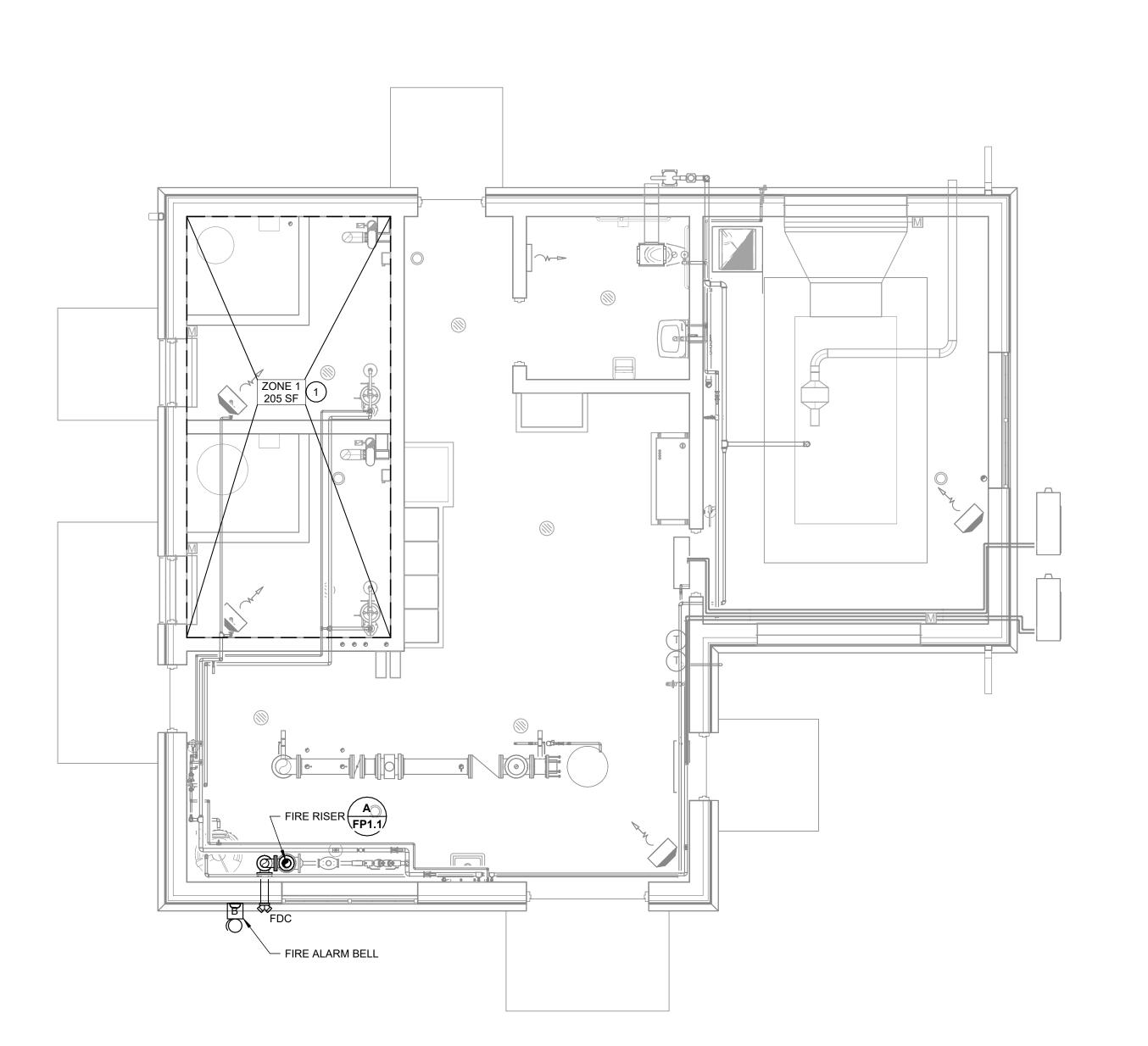
PROTECTION

JOB NO.

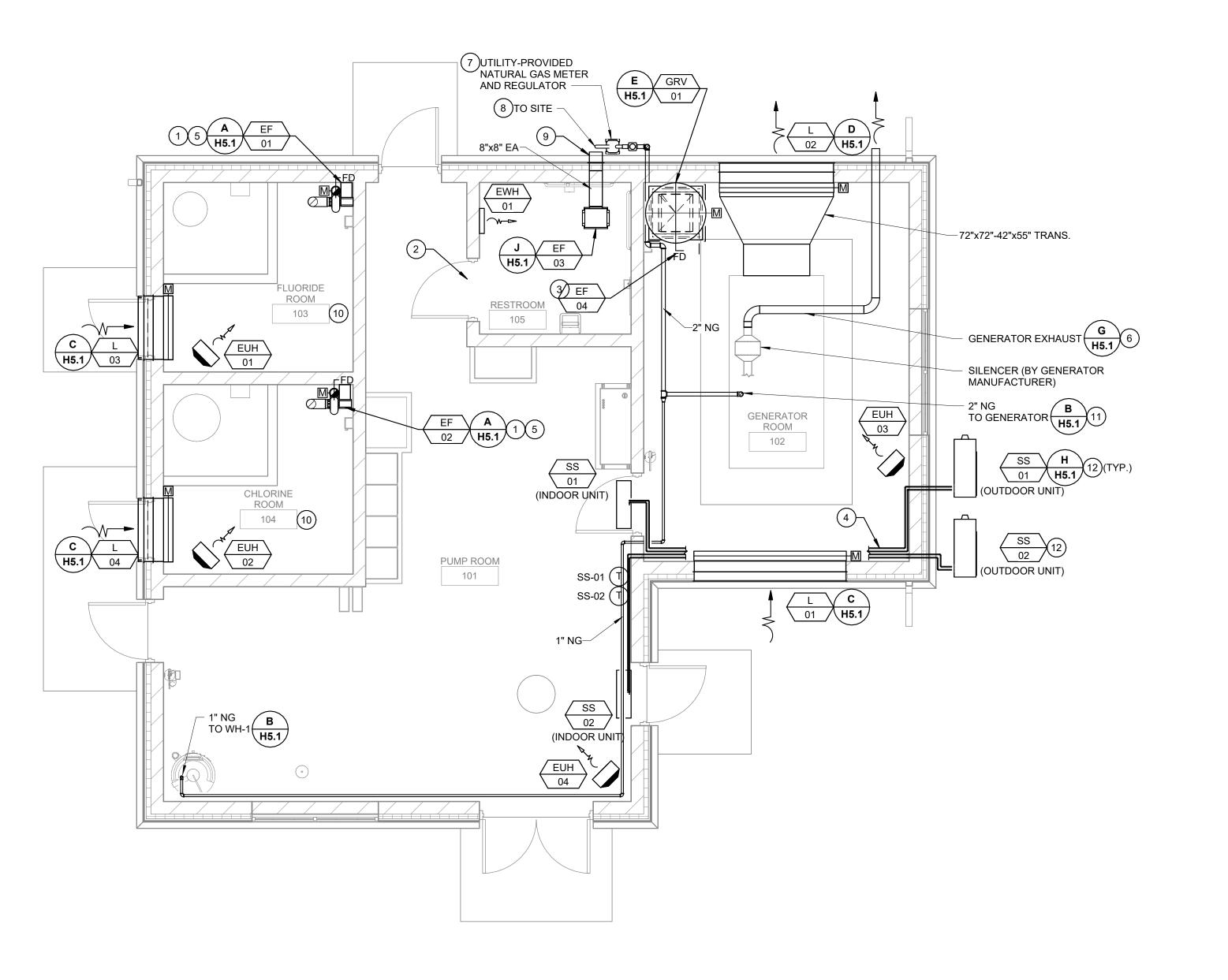
1602.175 PROJECT MGR. **MIKE FORSLUND** 



SHEET **33** FP1.1







1. SEE DRAWING H0.1 FOR HVAC GENERAL NOTES.

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l ⊐/1	1101

- 1) ROUTE 5" PVC DUCT FROM BLOWER INLET DN TO 12" AFF AND PROVIDE SCREEN.
- (2) UNDERCUT THE DOOR BY 3/4".
- MOUNT INLINE EXHAUST FAN SUCH THAT OUTLET POINTS UPWARD, AT BOTTOM ELEVATION = 6'-6" AFF. PROVIDE SCREEN AT FAN INLET. AT FAN OUTLET, MOUNT ACTUATED DAMPER IN 22X24 DUCT. AFTER DAMPER, TRANSITION FROM 22X24 TO 18X24. AT CEILING, PROVIDE FIRE DAMPER, AND CONTINUE UP THROUGH ROOF TO GRV. WITHIN ROOF CURB, TRANSITION FROM 18X24 TO GRV DUCT CONNECTION SIZE.
- (4) ROUTE RL AND RS BETWEEN INDOOR AND OUTDOOR UNITS.
- ROUTE 5" PVC DUCT FROM BLOWER OUTLET UP THROUGH ROOF. BEFORE ENTERING ATTIC, MOUNT CPVC CONTROL DAMPER AND ACTUATOR IN 6"Ø DUCT. AT CEILING, PROVIDE FIRE DAMPER IN DUCTWORK. ABOVE ROOF, PROVIDE ELBOW AND ANGLED OUTLET TO PREVENT RAIN INFILTRATION. PROVIDE SCREEN AT OUTLET.
- 6 ROUTE 5" GENERATOR EXHAUST FROM SILENCER OUTLET TO BUILDING EXTERIOR, TIGHT TO CEILING.
- 7 REGULATOR SHALL BE ADJUSTED TO 11" WC ON THE CUSTOMER SIDE OF THE METER.
- 8 REFER TO DRAWING C1.1 FOR CONTINUATION.
- 9 PROVIDE WALL CAP AT EXHAUST AIR OUTLET, GREENHECK MODEL WC-8X8 OR EQUAL.
- EQUIPMENT AND ACCESSORIES SERVING AND LOCATED WITHIN THIS ROOM SHALL BE SUITABLE FOR CORROSIVE (NEMA 4X) ENVIRONMENTS. ALL DUCTWORK SHALL BE CPVC.
- COORDINATE FINAL CONNECTION WITH GENERATOR MANUFACTURER.
- MOUNT OUTDOOR UNIT SUCH THAT BOTTOM OF UNIT IS 7'-6" ABOVE GRADE.

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REVISIONS
DATE:

FLOOR PLAN

WELL NO. 6

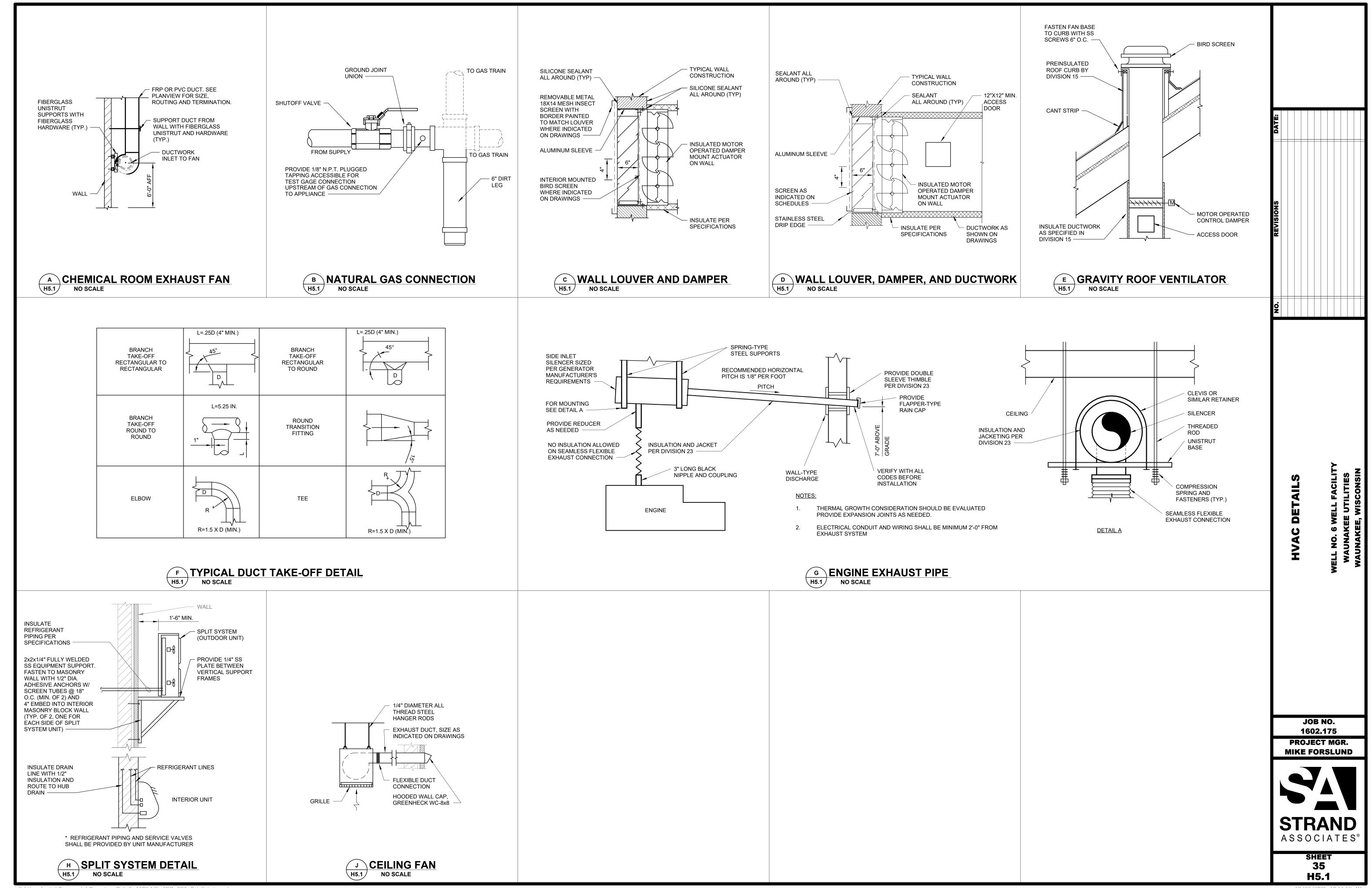
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PROJECT MGR. MIKE FORSLUND



SHEET 34 H1.1

HVAC FLOOR PLAN



							FAN SCH	EDULE									
											SOUND		EL	ECTRICAL			
					AIRFLOW	EXT. S.P.	MOTOR SIZE		MOTOR		POWER					WEIGHT	1
UNIT NO.	LOCATION	SERVICE	MANUFACTURER	MODEL	(CFM)	(IN. W.C.)	(HP)	FAN TYPE	TYPE	DRIVE	(SONES)	VOLTAGE	PHASE	STARTER BY	BY	(LBS.)	REMARKS
EF-01	FLUORIDE ROOM	FLUORIDE ROOM	PLASTEC	P15XS4P033	108	0.58	1/4	BLOWER	EXP	DIRECT	6.8	115	1	DIV. 26	DIV. 26	19	1
EF-02	CHLORINE ROOM	CHLORINE ROOM	PLASTEC	P15XS4P033	108	0.58	1/4	BLOWER	EXP	DIRECT	6.8	115	1	DIV. 26	DIV. 26	19	1
EF-03	RESTROOM	RESTROOM	GREENHECK	SP-A250	91	0.734	FRAC.	CABINET	ODP	DIRECT	5.0	115	1	DIV. 26	DIV. 26	24	
EF-04	GENERATOR ROOM	GENERATOR ROOM	GREENHECK	SQ-18-VG	4,500	0.972	2	INLINE	TEFC	DIRECT	18.2	480	3	MFR.	DIV. 26	156	2

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

FAN SHALL BE CONFIGURED TO HAVE SIDE DISCHARGE.

						SPLIT	SYSTEM	SCHED	ULE							
	MODEL NO. FAN SECTION COOLING SECTION ELECTRICAL OPERATING															
İ							SENSIBLE	TOTAL							WEIGHT	
						SUPPLY AIR	CAPACITY	CAPACITY	EAT DB/WB				BREAKER	DISCONNECT	(INDOOR/OUTDOOR)	
UNIT NO.	MANUFACTURER	LOCATION	SERVICE	(INDOOR)	(OUTDOOR)	(CFM)	(BTU/HR)	(BTU/HR)	(°F)	VOLTAGE	PHASE	MCA	SIZE	BY	(LBS.)	REMARKS
SS-01	DAIKIN	PUMP ROOM	PUMP ROOM	FTKF24AXVJU	RKF24AXVJU	605	16.36	22.4	80/67	208	1	14.23	20	DIV. 26	30.5/101	
SS-02	DAIKIN															

				,	WALL	LOU	VER S	SCHED	ULE						
							BLADE		PRESSURE	FACE		SCR	EEN		
					WIDTH	HEIGHT	DEPTH	AIRFLOW	DROP	VELOCITY	FREE AREA		SCREEN	TOP	
UNIT NO.	LOCATION	SERVICE	MANUFACTURER	MODEL	(IN)	(IN)	(IN)	(CFM)	(IN W.C.)	(FPM)	(SF)	SCREEN TYPE	LOCATION	ELEVATION	REMARKS
L-01	GENERATOR ROOM	GENERATOR INTAKE	GREENHECK	ESD-635	96	72	6	23,000	0.086	758	30.36	BIRDSCREEN	EXTERIOR	959.50	
L-02	GENERATOR ROOM	GENERATOR EXHAUST	GREENHECK	ESD-635	72	72	6	18,000	0.096	803	22.42	BIRDSCREEN	EXTERIOR	959.50	
L-03	FLUORIDE ROOM	FLUORIDE ROOM	GREENHECK	ESD-635	40	16	6	100	0.001	62	1.6	BIRDSCREEN	EXTERIOR	960.17	
L-04	CHLORINE ROOM	CHLORINE ROOM	GREENHECK	ESD-635	40	16	6	100	0.001	62	1.6	BIRDSCREEN	EXTERIOR	960.17	

			GRA	VITY RO	OOF VEN	TILATOF	R SCHED	ULE				
UNIT NO.	LOCATION	SERVICE	MANUFACTURER	MODEL	THROAT WIDTH (IN.)	THROAT HEIGHT (IN.)	AIRFLOW (CFM)	STATIC PRESSURE (IN. W.C.)	THROAT VELOCITY (FPM)	THROAT AREA (SQ. FT.)	OVERALL HEIGHT (IN.)	REMARKS
GRV-01	GENERATOR ROOM	EF-4	GREENHECK	GRSR-24	24.5	4	4,500	0.23	( 111)	3.24	12.75	

		ELEC1	TRIC HEA	ATER S	CHEDU	LE			
						ELEC.	TRICAL		
				CAPACITY				DISCONNECT	
UNIT NO.	LOCATION	MANUFACTURER	MODEL	(WATTS)	VOLTAGE	PHASE	FLA	BY	REMARKS
EUH-04	FLUORIDE ROOM	Q-MARK	QWD07432	7,500	480	3	9	MFR.	1
EUH-02	CHLORINE ROOM	Q-MARK	QWD07432	7,500	480	3	9	MFR.	1
EUH-01	GENERATOR ROOM	Q-MARK	MUH03-41	3,000	480	3	3.6	MFR.	
EUH-03	PUMP ROOM	Q-MARK	MUH03-41	3,000	480	3	3.6	MFR.	
EWH-01	RESTROOM	Q-MARK	CWH1101DSF	500	120	1	4.2	MFR.	2

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

<sup>2</sup> HEATER SHALL BE FIELD-CONVERTED TO HALF WATTAGE TO MEET SCHEDULED PERFORMANCE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

	DESIG	N CONDITION	NS	
	BUILDING CODE: NAL BUILDING CODE	SUMMER EXTERIOR: WINTER EXTE		
SPACE TYPE	VENTILATION RATE	SUMMER INTERIOR (DB/WB)	WINTER INTERIOR (DB)	REMARKS
RESTROOMS	75 CFM PER FIXTURE	80/67	65	
CHEMICAL ROOM	1 CFM/SF CONTINUOUS	AMBIENT	60	
PUMP ROOM	EQUIPMENT COOLING	104	60	
GENERATOR ROOM	EQUIPMENT COOLING	104	60	

	NATUR	AL GAS	SCHED	ULE	
		EQUIP	MENT REQUIRE	EMENTS	
		NATURAL	MIN. INLET	MAX. INLET	
		GAS LOAD	PRESSURE	PRESSURE	
UNIT NO.	DESCRIPTION	(MBH)	(IN. W.C.)	(IN. W.C.)	REMARKS
WH-01	WATER HEATER	300	4.8	14	
GEN-01	GENERATOR	2,115	7	11	

NOTE: NATURAL GAS DISTRIBUTION IS 2 PSI.

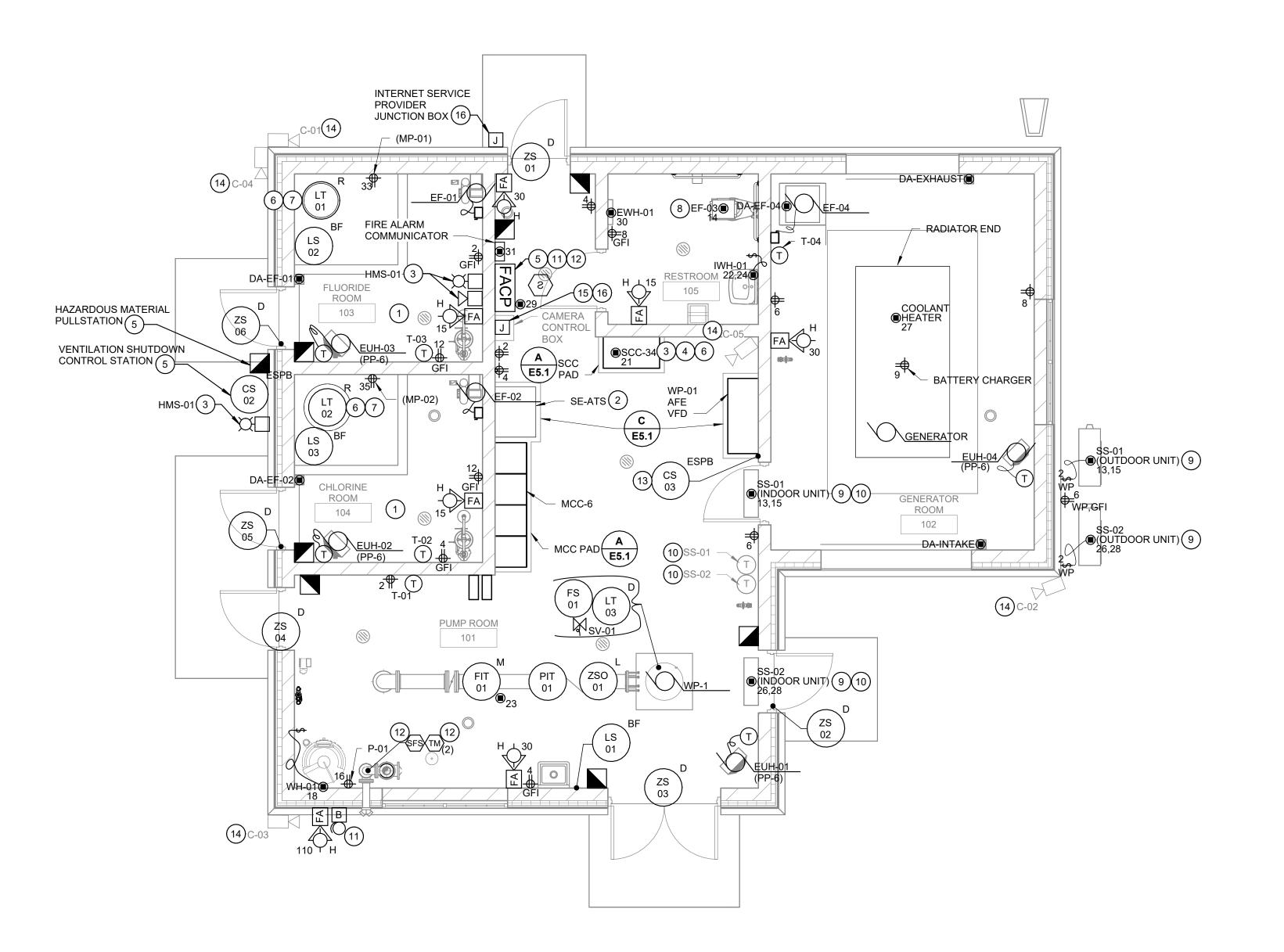
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WELL NO. 6 W WAUNAKE

JOB NO. 1602.175 PROJECT MGR. MIKE FORSLUND



SHEET 36



- 1. ALL 120/208V EQUIPMENT ON THIS SHEET SHALL BE POWERED FROM LP-6, UNLESS OTHERWISE NOTED.
- 2. ALL 480V EQUIPMENT ON THIS SHEET SHALL BE POWERED FROM MCC-6, UNLESS OTHERWISE NOTED.
- 3. REFER TO SPECIFICATION SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE SCADA SYSTEM.
- DAMPERS WITHOUT A CIRCUIT NUMBER SHALL BE POWERED FROM A CONTROL POWER TRANSFORMER IN THE ASSOCIATED MCC BUCKET.
- 5. REFER TO DRAWINGS G1.1 AND ASM1.3 FOR LOCATIONS OF FIRE-RATED WALLS AND CEILINGS.

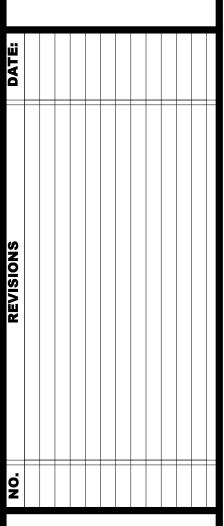
#### **KEY NOTES:**

- 1) ALL ELECTRICAL WORK AND EQUIPMENT IN THIS AREA SHALL BE RATED NEMA 4X, PVC, OR FRP.
- 2) INCOMING POWER FEED TO SERVICE ENTRANCE RATED ATS SHALL BE ROUTED BENEATH FLOOR SLAB.
- 3) PROVIDE 2~#14 AND #14 GROUND IN 3/4" CONDUIT FROM
- PROVIDE 4~#14 AND #14 GROUND IN 3/4" CONDUIT FROM

ALARM HORN TO SCC-34.

- MULTI-COLOR WARNING LIGHT TO SCC-34.

  THE HAZARDOUS MATERIAL PULL STATION AND
- VENTILATION SHUTDOWN CONTROL STATION SHALL BE WIRED TO THE FACP BY DIVISION 28. PROVIDE REQUIRED ADDRESSABLE CONTROL MODULES AND SUPERVISORY RELAYS TO MONITOR EACH DEVICE AT THE FACP.
- 6 PROVIDE MANUFACTURER-FURNISHED CABLE IN 3/4" CONDUIT FROM LEVEL TRANSMITTER TO SCC-34.
- 7 LEVEL TRANSMITTER SHALL BE MOUNTED ABOVE CHEMICAL TANK AND MEASURE LEVEL THROUGH TOP OF TANK.
- ONE POLE OF OCCUPANCY SENSOR SHALL CONTROL LIGHTING AND ONE POLE SHALL CONTROL LIGHTING AND ONE POLE SHALL CONTROL EXHAUSTT FAN. EXHAUST FAN SHALL RUN WHEN THE OCCUPANCY SENSOR IS ENERGIZED.
- 9 PROVIDE 3~#14 AND #14 GROUND IN 3/4" CONDUIT FROM OUTDOOR UNIT TO INDOOR UNIT FOR POWER AND CONTROL.
- PROVIDE OUTLET BOX AND 3/4" CONDUIT FROM BOX TO SPLIT SYSTEM INDOOR UNIT FOR DIVISION 23-PROVIDED THERMOSTAT AND LOW VOLTAGE WIRING.
- (11) FIRE SUPPRESSION SYSTEM ALARM BELL FURNISHED BY DIVISION 21 AND INSTALLED AND WIRED BY DIVISION 28. ALARM BELL SHALL BE POWERED FROM THE FACP.
- 12) FIRE SUPPRESSION SYSTEM FLOW AND TAMPER SWITHCES PROVIDED BY DIVISION 21 AND WIRED TO THE FACP BY DIVISION 28. PROVIDE REQUIRED ADDRESSABLE CONTROL MODULES AND SUPERVISORY RELAYS TO MONITOR EACH DEVICE AT THE FACP.
- DEVICE SHALL BE FURNISHED AS SPECIFIED IN SPECIFICATION SECTION 26 32 13.
- PROVIDE RECESSED BOX FOR INSTALLATION OF OWNER PROVIDED CAMERA. COORDINATE FINAL LOCATION WITH
- PROVIDE JUNCTION BOX SIZE AS REQUIRED. PROVIDE CBG FITTING FOR EACH CAMERA CABLE AND UTILITY FIBER OPTIC CABLING (6 TOTAL). CABLES BETWEEN JUNCTION BOX AND ASSOCIATED CAMERA CONTROL BOX OR MODEM SHALL BE RUN FREE AIR. REFER TO THE SCADA RISER ON DRAWING E6.1 FOR ADDITIONAL INFORMATION. COORDINATE MOUNTING HEIGHT AND LOCATION OF JUNCTION BOX WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE 3/4" CONDUIT FROM INTERNET SERVICE PROVIDER JUNCTION BOX TO CAMERA CONTROL JUNCTION BOX.



OWER AND SYSTEMS PLAI

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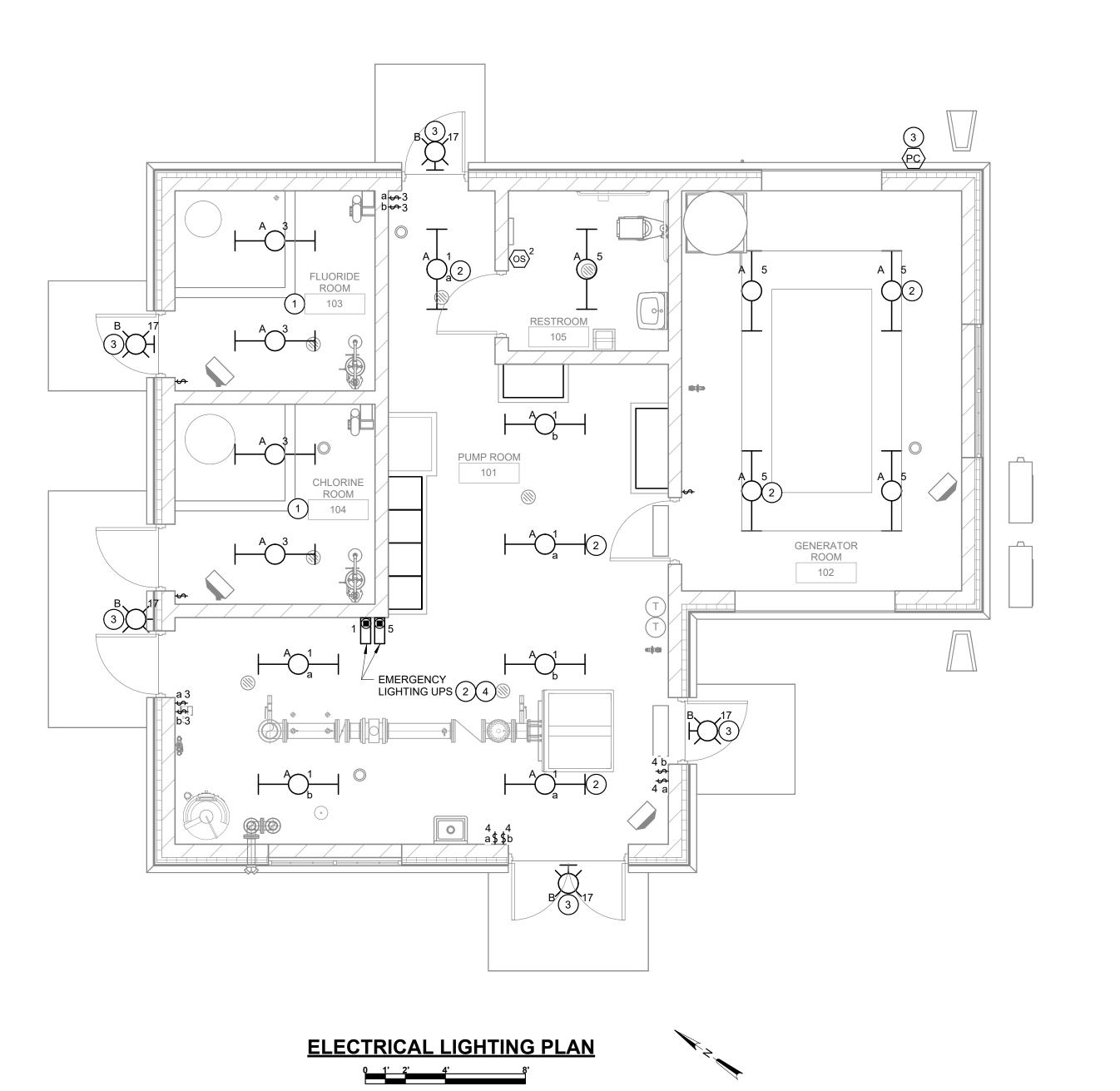
JOB NO. 1602.175

PROJECT MGR.
MIKE FORSLUND



SHEET 37 E1.1

**ELECTRICAL POWER AND SYSTEMS PLAN** 



 ALL 120/208V EQUIPMENT ON THIS SHEET SHALL BE POWERED FROM LP-6, UNLESS OTHERWISE NOTED.

#### **KEY NOTES:**

- 1 ALL ELECTRICAL WORK AND EQUIPMENT IN THIS AREA SHALL BE RATED NEMA 4X, PVC, OR FRP.
- FIXTURE SHALL BE POWERED THROUGH THE EMERGENCY LIGHTING UPS IN PUMP ROOM 101. THE FIXTURE SHALL BE SWITCHED AS NOTED.
- 3 EXTERIOR LIGHTING CIRCUIT SHAL BE WIRED THROUGH PHOTOCELL.
- EMERGENCY LIGHTING UPSs SHALL BE SURFACE MOUNTED ON THE WALL STACKED ABOVE EACH OTHER. ASSOCIATED FIXTURES SHALL BE WIRED IN SERIES THROUGH THE UPS FROM THE LOAD SIDE OF THE CONTROL DEVICE. EMERGENCY CIRCUITS SHALL BE INSTALLED WITHIN DEDICATED CONDUIT AND BOXES. PROVIDE SEPARATE REFERENCE VOLTAGE CIRCUIT TO POWER THE UPS FROM THE LINE SIDE OF THE CONTROL DEVICE.

NO.
REVISIONS
DATE:

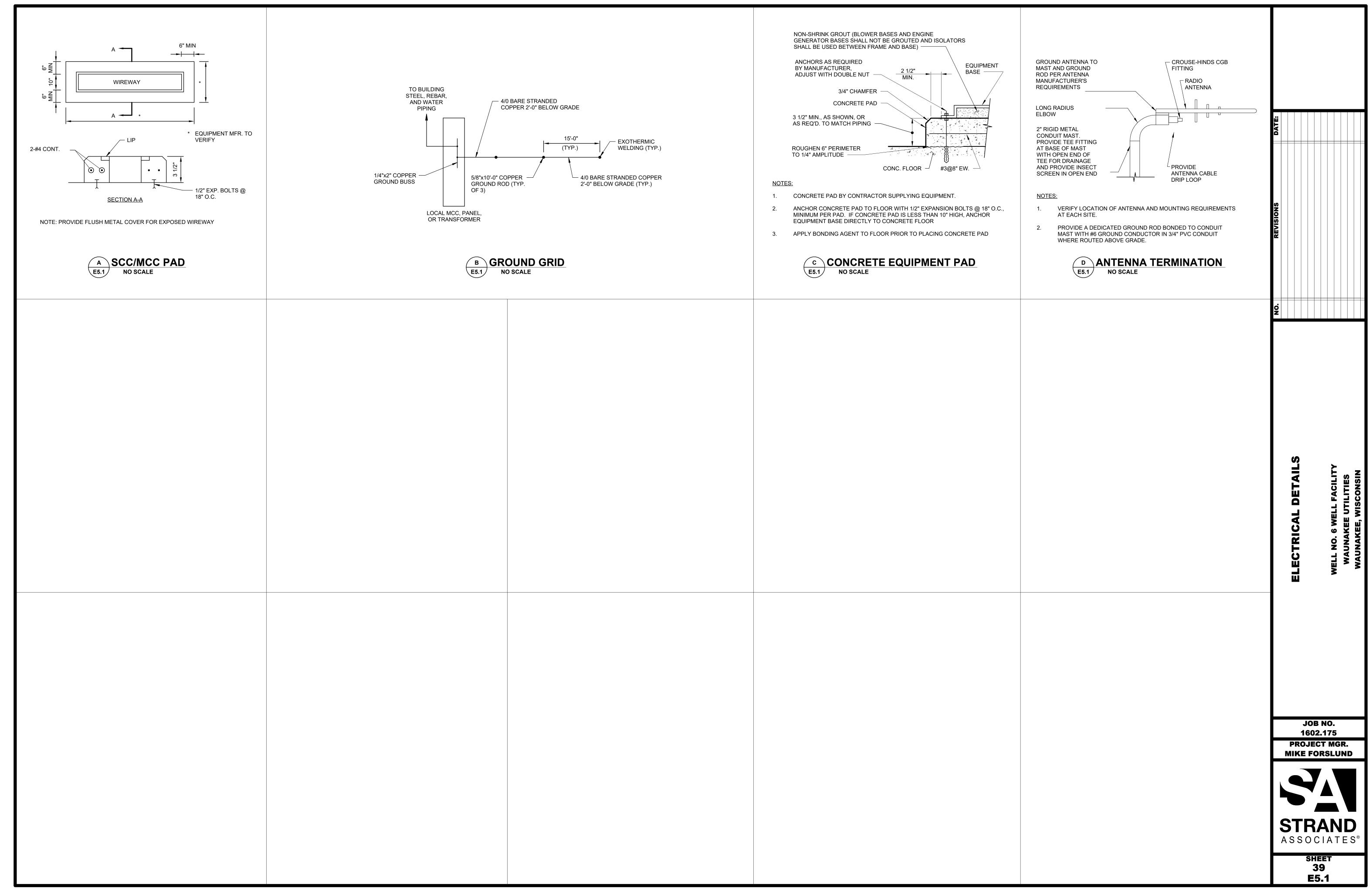
WELL NO. 6 WELL FA WAUNAKEE UTILI

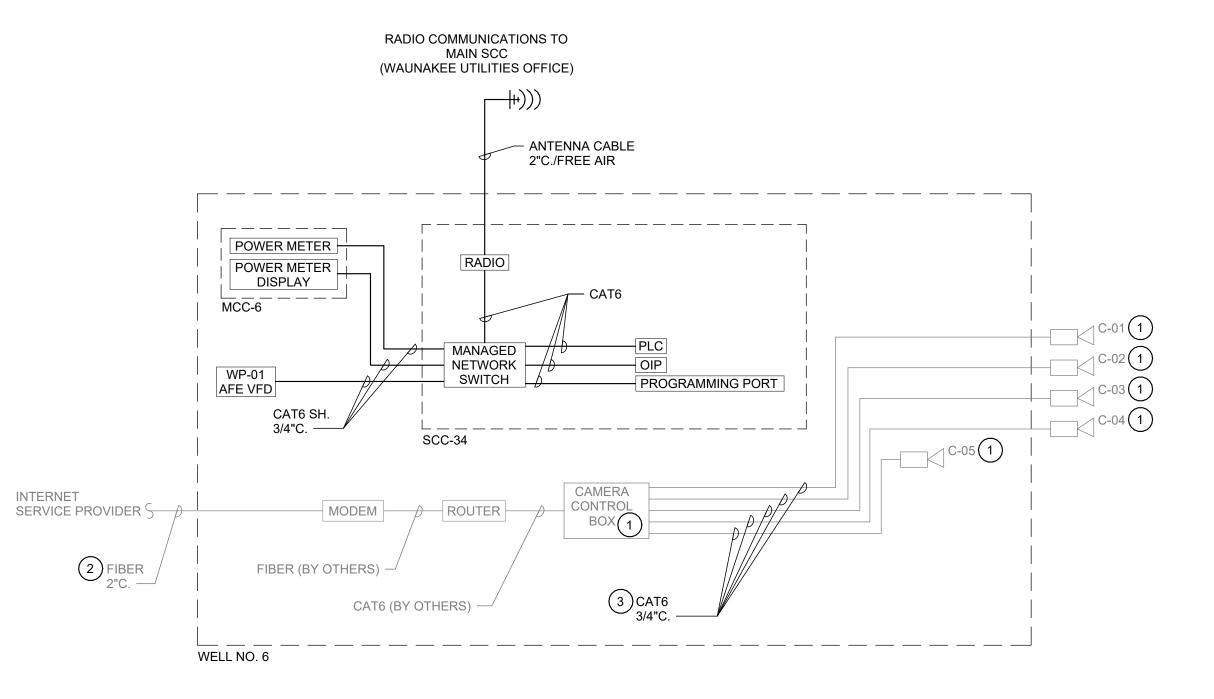
JOB NO. 1602.175

PROJECT MGR. MIKE FORSLUND

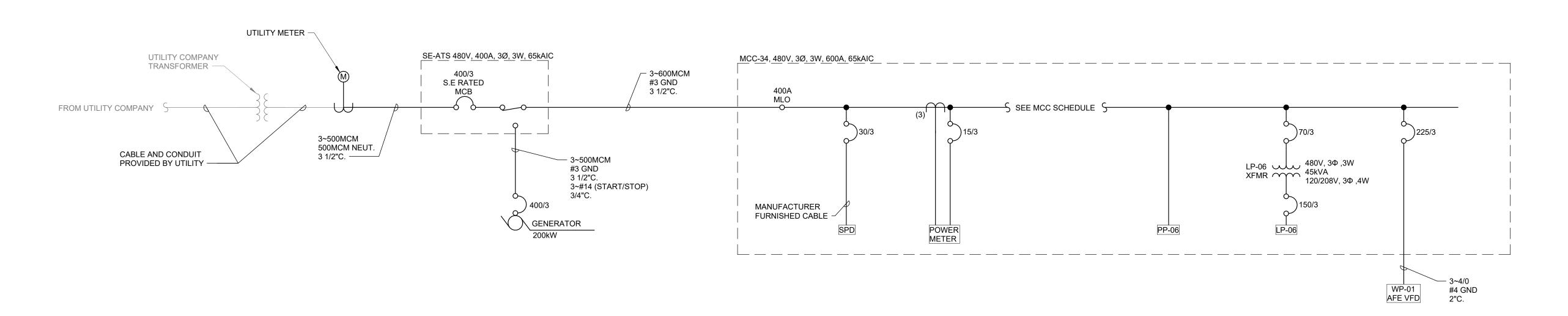


38 E1.2





SCADA RISER DIAGRAM
NO SCALE



ONE LINE ELECTRICAL DIAGRAM
NO SCALE

KEY NOTES:

- EQUIPMENT PROVIDED BY OWNER.
- FIBER FURNISHED AND INSTALLED BY OTHERS IN DIVISION 26 PROVIDED CONDUIT.
- 3 CAT6 CABLE PROVIDED BY OWNER IN DIVISION 26 PROVIDED CONDUIT.

NO.
REVISIONS
DATE:

ONE-LINE DIAGRAM AND SCADA RISER DIAGRA

WELL NO. 6 WEL

JOB NO. 1602.175

PROJECT MGR.
MIKE FORSLUND



SHEET 40 **E6.1** 

	EQUIPMENT AND NAMEPLA	TE TITLES			МОТО	R INFORM	MOITA		MO <sup>-</sup>	FOR STAI	RTER INFO	RMATION	CONTROLS AND INTERLOCKS			
EQUIPMENT NUMBER	FIRST LINE SECOND LINE WHEN EQUIPMENT NUMBER IS INDICATED	SECOND LINE THIRD LINE WHEN EQUIPMENT NUMBER IS INDICATED	EQUIPMENT LOCATION	PANEL/MCC	HP (OR KW)	VOLTS	F.L.A.	SIZE	TYPE	DISCO	AMPS	CONTROL DEVICES	DESCRIPTION	CONDUIT AND WIRE ** 1ST ROW(S)=CONTROL* LAST ROW=POWER	REMARKS ***	
EF-01	FLUORIDE ROOM	EXHAUST FAN	FLUORIDE ROOM	MCC-6	0.5	480	1.1	1	FVNR	М	15	O-O,R,R,G,ETM	DAMPER (DA-EF-01), CS-02	4~#14, 3/4"C. 3~#12, 3/4"C.	SEE NOTE A R=STARTER OVERLOAD, R=E-STOP ACTIVATED	
EF-02	CHLORINE ROOM	EXHAUST FAN	CHLORINE ROOM	MCC-6	0.5	480	1.1	1	FVNR	M	15	O-O,R,G,ETM	DAMPER (DA-EF-02)	2~#14, 3/4"C. 3~#12, 3/4"C.	SEE NOTE B	
EF-04	GENERATOR ROOM	EXHAUST FAN	GENERATOR ROOM	MCC-6	2	480	3.2	-	-	ТМ	15	HOA,R,G,ETM	DAMPERS (DA-EF-04,DA-INTAKE,DA-EXHAUST), T-04, DISCONNECT, GENERATOR RUNNING, (START/STOP, RUNNING, VFD FAULT) @ VFD IN FAN HOUSING	12~#14, 3/4"C. 6~#14 3~#12, 3/4"C.	SEE NOTE C	

FE VFD SC	CHEDULE
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	EQUIPMENT AND NAMEPLA	TE TITLES			MOTOR INFO	RMATION	MOTOR STARTER INFORMATION CONTROLS AND INTERLOCKS		
EQUIPMENT NUMBER	FIRST LINE SECOND LINE WHEN EQUIPMENT NUMBER IS INDICATED	SECOND LINE THIRD LINE WHEN EQUIPMENT NUMBER IS INDICATED	EQUIPMENT LOCATION	PANEL/MCC	HP VOLT	ΓS F.L.A.	DEVICES	CONDUIT AND WIRE ** 1ST ROW(S)=CONTROL* LAST ROW=POWER	REMARKS ***
WP-01	WELL PUMP	NO. 1	WET WELL	MCC-6	125 480	156	- VFD AFE (ND) TM 225 HOA,R,R,R,R,G,W,RST, ETM FS-01,ZSO-01,SV-01,LS-01,MOTOR T-STATS		SEE NOTE A R=VFD FAULT, R=MOTOR OVERTEMP, R=FLOW FAIL ALARM, R=PRE-LUBE FAIL, W=BACKSPIN TIMER ACTIVE

SPACE WP-01 AFE VFD FCB LP-06 POWER METER PP-06 EF-01 EF-02 LP-06 MCB SPD AND PHASE MONITOR XFMR-LP-06 BREAKER EF-04 SPACE LP-06 XFMR SPACE 400A MLO

## MCC-6 ELEVATION NO SCALE

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

\* IF APPLICABLE

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

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

SCHEDULE

JOB NO. 1602.175 PROJECT MGR. MIKE FORSLUND

STRAND ASSOCIATES®

SHEET 41

					_IGH1	ING I	PANE	L LP-(	5						
Service: 120/208V, Main Breaker: 225A I Location: Pump Ro	MLO					Enclosure	: NEMA 1G						Mounting: Main Bus: SCIC:	Сор	CC-6 pper kAIC
Room Number/Description	Amps	Poles	Ckt.#	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt.#	Poles	Amps	Room Number/De	scription	n
PUMP ROOM LIGHTING	20	1	1	238			540			2	1	20	PUMP + FLOURIDE RMS	RECEP	TACLE
FLUORIDE + CHLORINE RM LGHTNG	20	1	3		136			720		4	1	20	PUMP + CHORINE RMS	RECEPT	ACLES
RESTROOM + GENERATOR RM LIGHTNG	20	1	5			170			540	6	1	20	PUMP + GENERATOR RI RECEPTACLES	MS	
SPARE	20	1	7	0			720			8	1	20	RESTROOM + GENERAT EXTERIOR RECEPTACLI		3 +
GENERATOR BATTERY CHARGER	20	1	9		1334			0		10	1	20	SPARE		
SPARE	20	1	11			0			360	12	1	20	FLOURIDE + CHLORINE RECEPTACLES	RMS	
			13	1645			267			14	1	20	RESTROOM EXHAUST F	AN (EF-	-03)
SPLIT SYSTEM NO. 1 (SS-01)	20	2	15		1645			180		16	1	20	RECIRCULATION PUMP (P-01)	RECEPT	ACLE
EXTERIOR LIGHTING	20	1	17			228			667	18	1	20	DOMESTIC WATER HEA	TER (WH	H-01)
SPARE	20	1	19	0			0			20	1	20	SPARE		
SCC-34	20	1	21		500			2312		22	2	30	INSTANTANEOUS WATE	R HEATE	ER
FIT-01	20	1	23			200			2312	24			(10011-01)		
SPARE	20	1	25	0			1625			26	2	20	SPLIT SYSTEM NO. 2 (SS	S-02)	
GENERATOR COOLANT HEATER	30	1	27		2778			1625		28			(		
FIRE ALARM CONTROL PANEL (FACP) *	20	1	29			500			560	30	1	20	ELECTRIC WALL HEATE	R (EWH-	·01)
FIRE ALARM COMMUNICATOR	20	1	31	56			0			32	1	20	SPARE		
FLOURIDE CHEMICAL PUMP RECEPTACLE	20	1	33		180			0		34	1	20	SPARE		
CHLORINE CHEMICAL PUMP RECEPTACLE	20	1	35			180			0	36	1	20	SPARE		
SPARE	20	1	37	0			0			38	1	20	SPARE		
SPARE	20	1	39		0			0		40	1	20	SPARE		
SPARE	20	1	41			0			0	42	1	20	SPARE		
Total Load per Phase per Side (VA)				1939	6573	1278	3152	4837	4439						
Total Load Phase A (VA)		5091	VA				RED IN CO		1	Total Co	onnected	d Load		62	Α
Total Load Phase B (VA)		11410	VA			ELED FACI		_0			onnected		25%	77	A
Total Load Phase C (VA)		5717	VA	-						Spare 2				19	Α
Total Connected Load (VA)		22218	VA	1						Feeder				96	Α

Service: 480\	V, 3Ø, 3W					Enclosure	: NEMA 1G						Mounting:	In M	ICC-6
Main Breaker: 22	5A MCB												Main Bus:	Co	pper
Location: Pump	Room 101												SCIC:	35	kAIC
Room Number/Description	Amps	Poles	Ckt.#	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt.#	Poles	Amps	Room Numb	er/Descriptio	n
			1	1111			1111			2				,	
ELECTRIC UNIT HEATER (EUH-01)	15	3	3		1111			1111		4	3	15	ELECTRIC UNIT HE	EATER (EUH-C	03)
			5			1111			1111	6					
			7	1111			1111			8					
ELECTRIC UNIT HEATER (EUH-02)	15	3	9		1111			1111		10	3	15	ELECTRIC UNIT HE	EATER (EUH-C	)4)
			11			1111			1111	12					
			13	0			0			14					
SPARE	15	3	15		0			0		16	3	15	SPARE		
			17			0			0	18					
			19	0			0			20					
SPACE	-	3	21		0			0		22	3	-	SPACE		
			23			0			0	24					
			25	0			0			26					
SPACE	-	3	27		0			0		28	3	-	SPACE		
			29			0			0	30					
Total Load per Phase per Side (VA)				2222	2222	2222	2222	2222	2222						
Total Load Phase A (VA)	,	4444	VA								onnected			16	/
Total Load Phase B (VA)		4444	VA							Total Co	onnected	Load +	25%	20	/
Total Load Phase C (VA)		4444	VA							Spare 2				5	/
Total Connected Load (VA)		13332	VA							Feeder	Load			25	/

DATE:							
REVISIONS							
ON.							

ECTRICAL SCHEDULES

JOB NO. 1602.175

PROJECT MGR.
MIKE FORSLUND

STRAND
ASSOCIATES®

SHEET 42 **E6.**5

FIXTURE SCHEDULE				
Fixture Type	Manufacturer(s)	Model Number	Mounting	Remarks
Α	METALUX	4VT2-LD5-4-FR50-W-UNV-L840-CD1-WL	SURFACE	
В	RAB	SLIM22-S-60	SURFACE	ADJUST FIXTURE MOUNTING TO BE 15° PARALLEL FROM THE GROUND. ADJUST CCT TO BE 4000K.