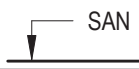
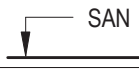
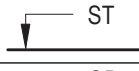
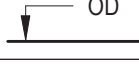
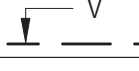
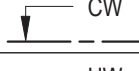
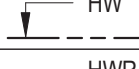
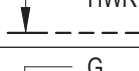
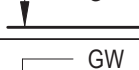
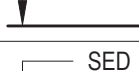
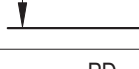
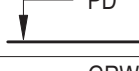
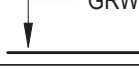



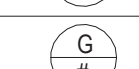
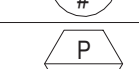



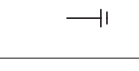



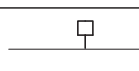


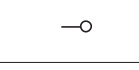
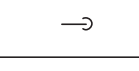
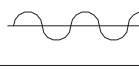
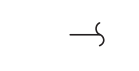
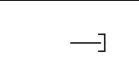
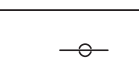
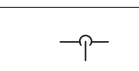

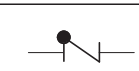








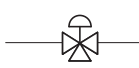
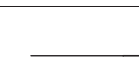
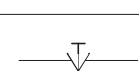
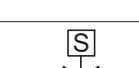
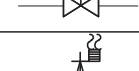



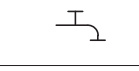
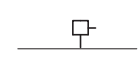

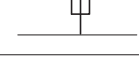

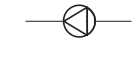



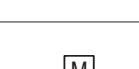





ABBREVIATIONS			
AD	AREA DRAIN	IW	INDIRECT WASTE
BFP	BACKFLOW PREVENTOR	JS	JANITOR SINK
CI	CAST IRON	L	LEADER
CL	CENTER LINE	LAV	LAVATORY
CLG	CEILING	MAX	MAXIMUM
CO	CLEANOUT	MIN	MINIMUM
CODP	CLEANOUT DECK PLATE	MS	MOP SINK
COWP	CLEAN OUT WALL PLATE	NFWH	NON-FREEZE WALL HYDRANT
COL	COLUMN	NIC	NOT IN CONTRACT
CP	CONTROL PANEL	NTS	NOT TO SCALE
CW	COLD WATER	OD	OVERFLOW DRAIN
DCV	DOUBLE CHECK VALVE	OS&Y	OUTSIDE SCREW & YOKE
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	PG	PRESSURE GAUGE
DFU	DRAINAGE FIXTURE UNIT	PLMB	PLUMBING
DIA	DIAMETER	PO	PLUGGED OUTLET
DN	PIPE DOWN THRU FLOOR	POE	POINT OF ENTRY
DR	DRAIN	PS	PANTRY SINK
DWG	DRAWING	RD	ROOF DRAIN
EL	ELEVATION	RPZ	REDUCED PRESSURE ZONE
ELEC	ELECTRIC	RM	ROOM
EWH	ELECTRIC WATER HEATER	S	SOIL
F	FIRE SERVICE	SA	SHOCK OBSORBER
FAI	FRESH AIR INTAKE	SS, SAN	SANITARY
FD	FLOOR DRAIN	ST	STORM DRAIN
FFD	FUNNEL FLOOR DRAIN	SE	SEWAGE EJECTOR
FL	FLOOR	SP	SUMP PUMP
FU	FIXTURE UNIT	SPEC	SPECIFICATIONS
FS	FLOOR SINK	SQ. FT.	SQUARE FEET
GAL	GALLON	TD	TRENCH DRAIN
GC	GENERAL CONTRACTOR	TMV	THERMOSTATIC MIXING VALVE
GI	GREASE INTERCEPTOR	TR	TRAP
GM	GAS METER	TYP	TYPICAL
GV	GATE VALVE	V	VENT
GW	GRAY WASTE	VTR	VENT THROUGH ROOF
HB	HOSE BIB	VB	VACUUM BREAKER
HC	HANDICAPPED	W	WASTE
HVAC	HEATING, VENTILATION & AIR CONDITIONING	WC	WATER CLOSET
HW	HOT WATER	WH	WALL HUNG
HWH	HOT WATER HEATER	WHA	WATER HAMMER ARRESTER
HWR	HOT WATER RETURN	WSFU	WATER SUPPLY FIXTURE UNIT
IE	INVERT ELEVATION		

PLUMBING SYMBOLS		
SYMBOL	DESCRIPTION	
	SANITARY PIPING BELOW GRADE	
	SANITARY WASTE (S OR W)	
	STORM DRAINAGE (ST)	
	OVERFLOW STORM DRAINAGE	
	VENT	
	DOMESTIC COLD WATER	
	DOMESTIC HOT WATER	
	DOMESTIC HOT WATER RETURN	
	NATURAL GAS	
	RAINWATER REUSE	
	SEWAGE EJECTOR DISCHARGE	
	PUMP DISCHARGE PIPING	
	GRAY WATER (LA ONLY)	
	SECTION SHEET No. SECTION NUMBER	
	SYSTEM DESCRIPTION RISER NUMBER	PLUMBING RISER
	SYSTEM DESCRIPTION RISER NUMBER	STORM RISER
	SYSTEM DESCRIPTION RISER NUMBER	GAS RISER
	EQUIPMENT DESCRIPTION EQUIPMENT NUMBER	EQUIPMENT REFERENCE
	CONNECT NEW TO EXISTING	
	HOT WATER BALANCING ASSEMBLY	
	CLEANOUT	
	CLEANOUT DECK PLATE	
	DRAIN	
	P-TRAP	
	SHOCK ABSORBER	
	TRAP PRIMER	
	ARROW INDICATES DIRECTION OF FLOW	
	ELBOW UP OR RISE	
	ELBOW DN OR DROP	
	PIPING WITH ELECTRIC TRACE HEATING	
	PIPING INTERRUPTED OR TO BE CONTINUED	
	CAP OR END OF PIPE	
	BOTTOM CONNECTION	
	TOP CONNECTION	
	VALVE ON PIPE RISE	

PLUMBING SYMBOLS	
SYMBOL	DESCRIPTION
	BACK FLOW PREVENTER
	CHECK VALVE
	GATE VALVE
	BALL VALVE
	GAS VALVE
	GLOBE VALVE
	PRESSURE REDUCING VALVE
	TEMPERATURE & PRESSURE RELIEF VALVE
	PRESSURE REGULATING VALVE
	THERMOSTATIC MIXING VALVE
	VALVED CAPPED OUTET
	CURB VALVE
	SOLENOID VALVE
	OUTSIDE STEM AND YOKE VALVE W/ TAMPER SWITCH
	STRAINER
	PRESSURE GAUGE
	HOSE BIB
	VACUUM BREAKER
	THERMOMETER
	PUMP
	CIRCULATOR PUMP
	SCHEMATIC PUMP
	FLOOR SINK
	VENT THRU ROOF
	METER
	FILTER
	FAI
	VENT INCREASER
	PIPE SLEEVE
	WATERPROOF PIPE SLEEVE
	NON FREEZE WALL HYDRANT

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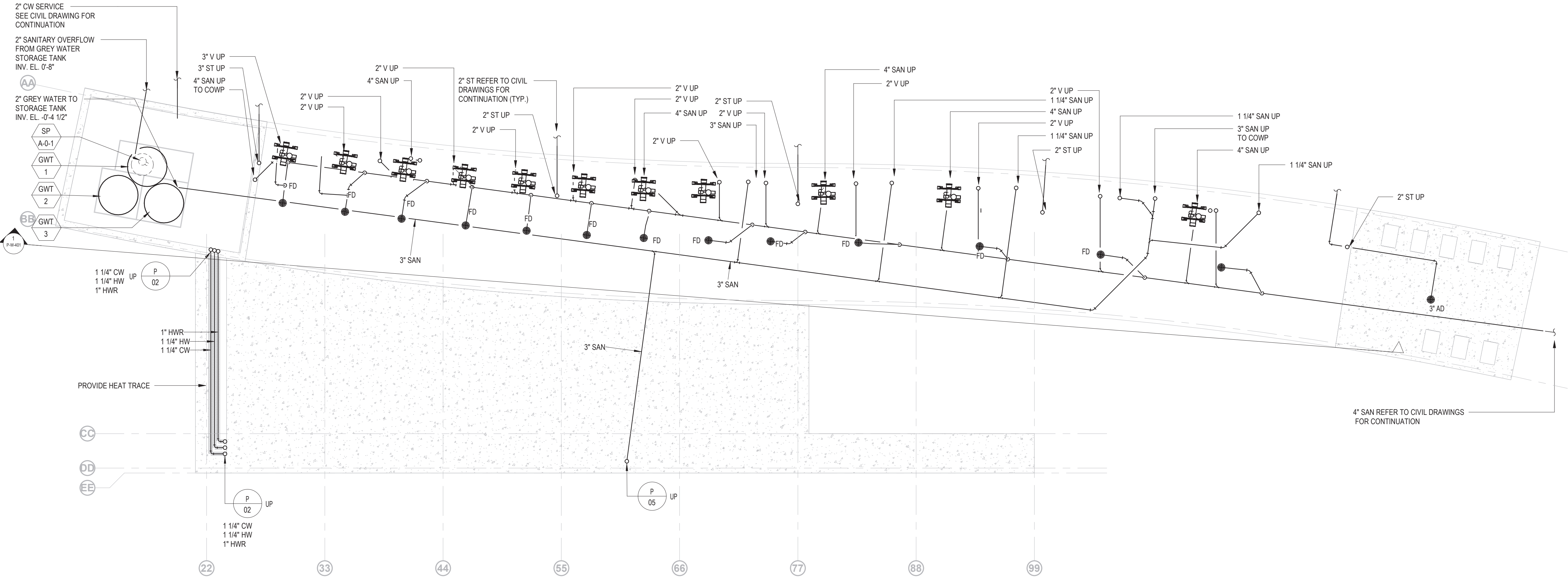
Storm King
Art Center
Welcome
Pavilions

Seal

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Drawing Title
Abbreviations,
Symbols, and
Legends

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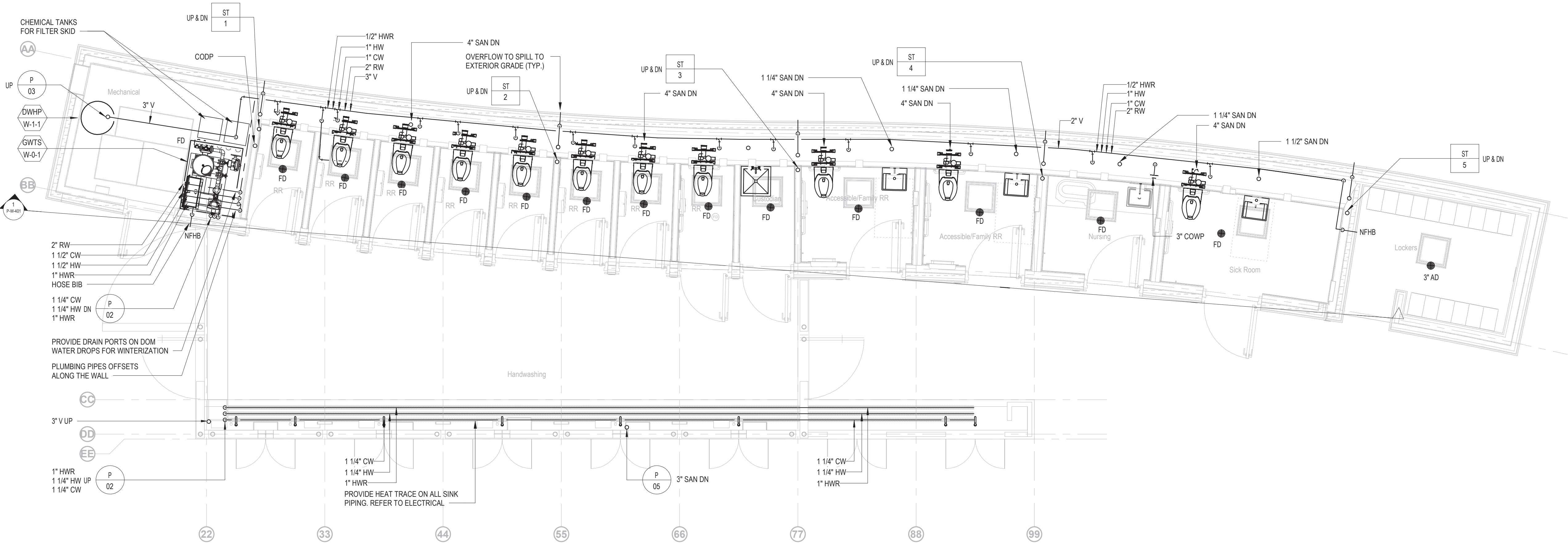
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Storm King Art Center Welcome Pavilions

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Drawing Title
Restroom - Piping -
Underslab

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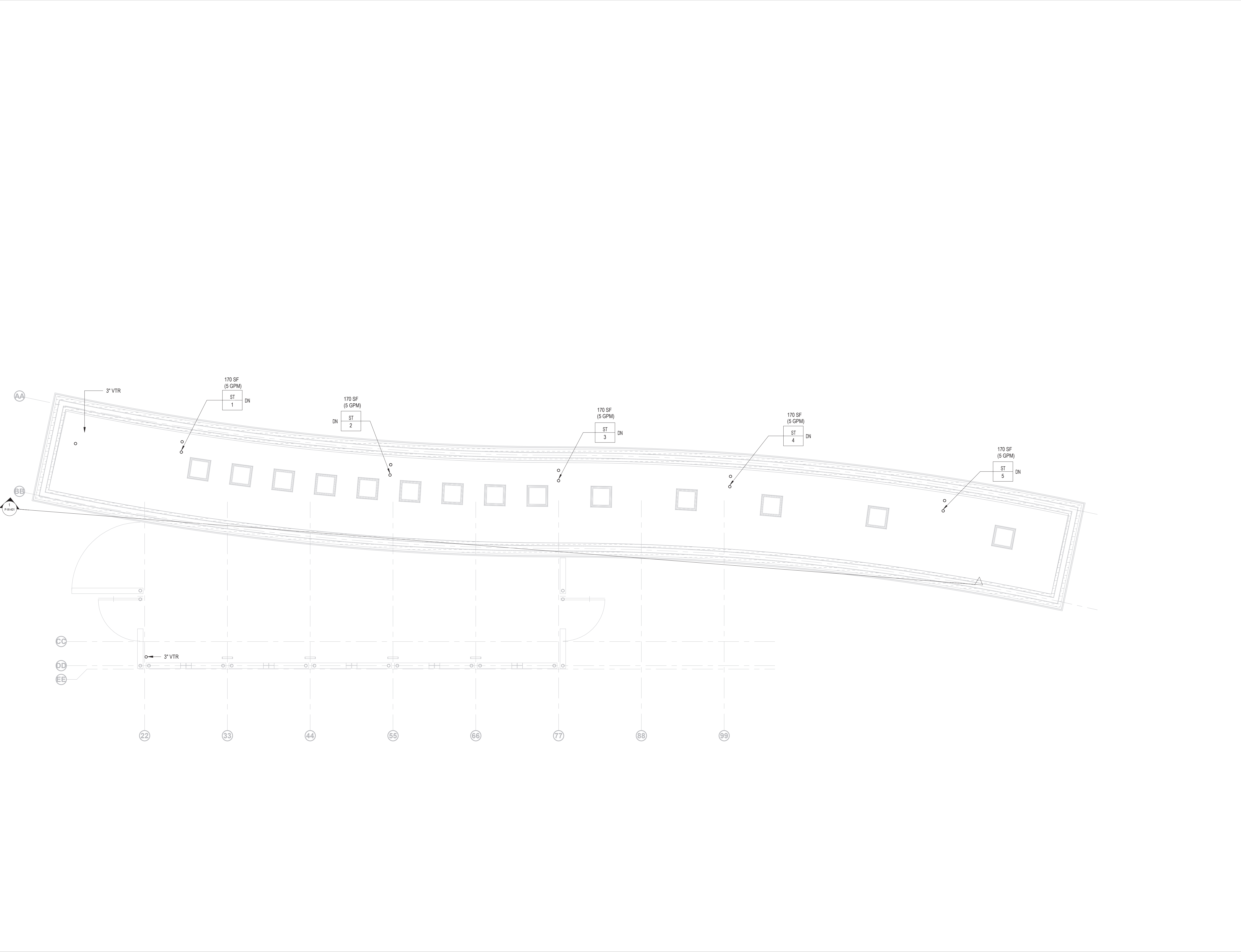
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Key Plan	
Description	Date
Filing Set	06/17/22

Project	
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Welcome Pavilions	
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Drawing Title
Restroom - Piping
Plan - Ground Level

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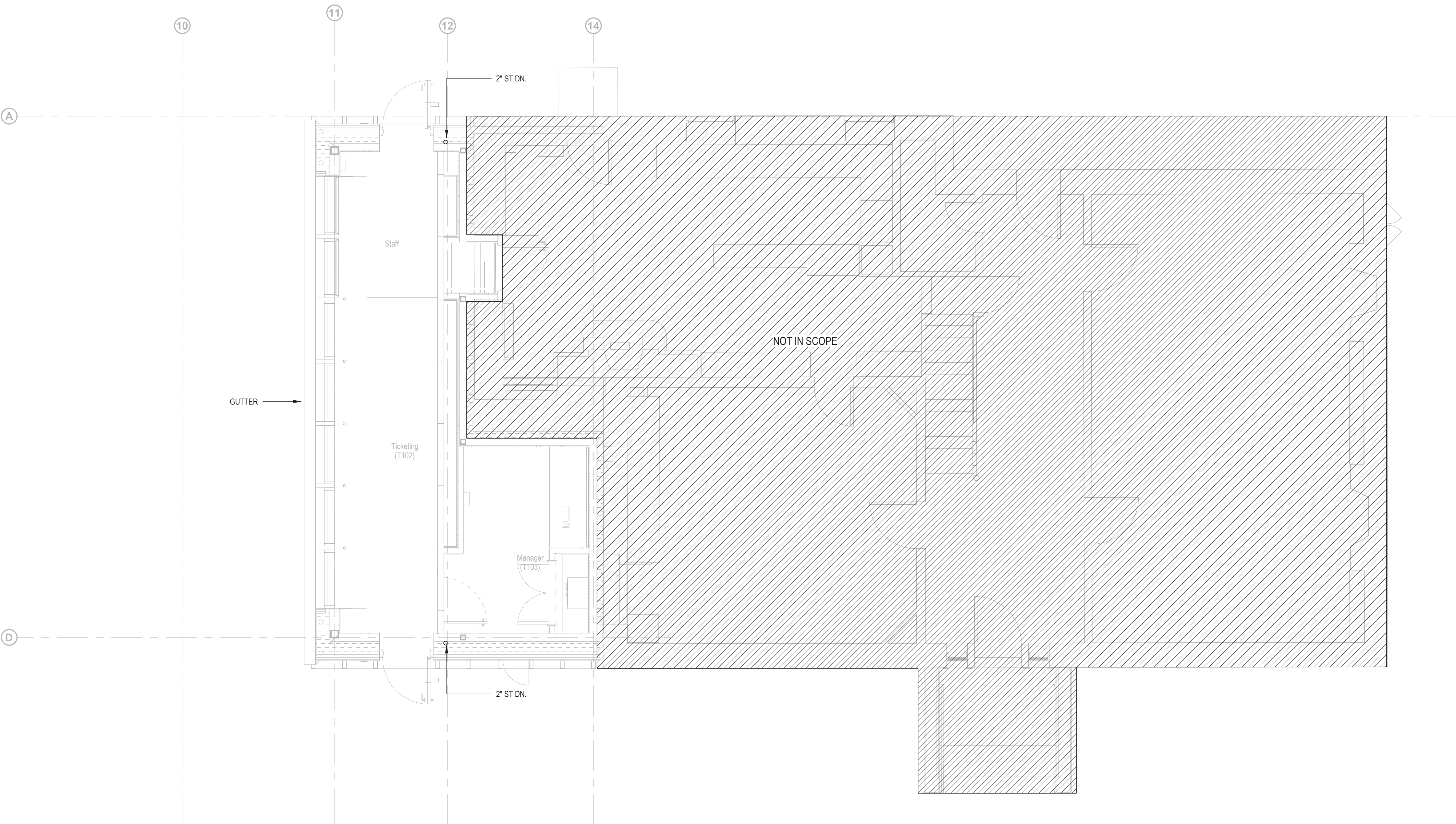
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Pavilions

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Drawing Title
Restroom - Piping
Plan - Roof Level

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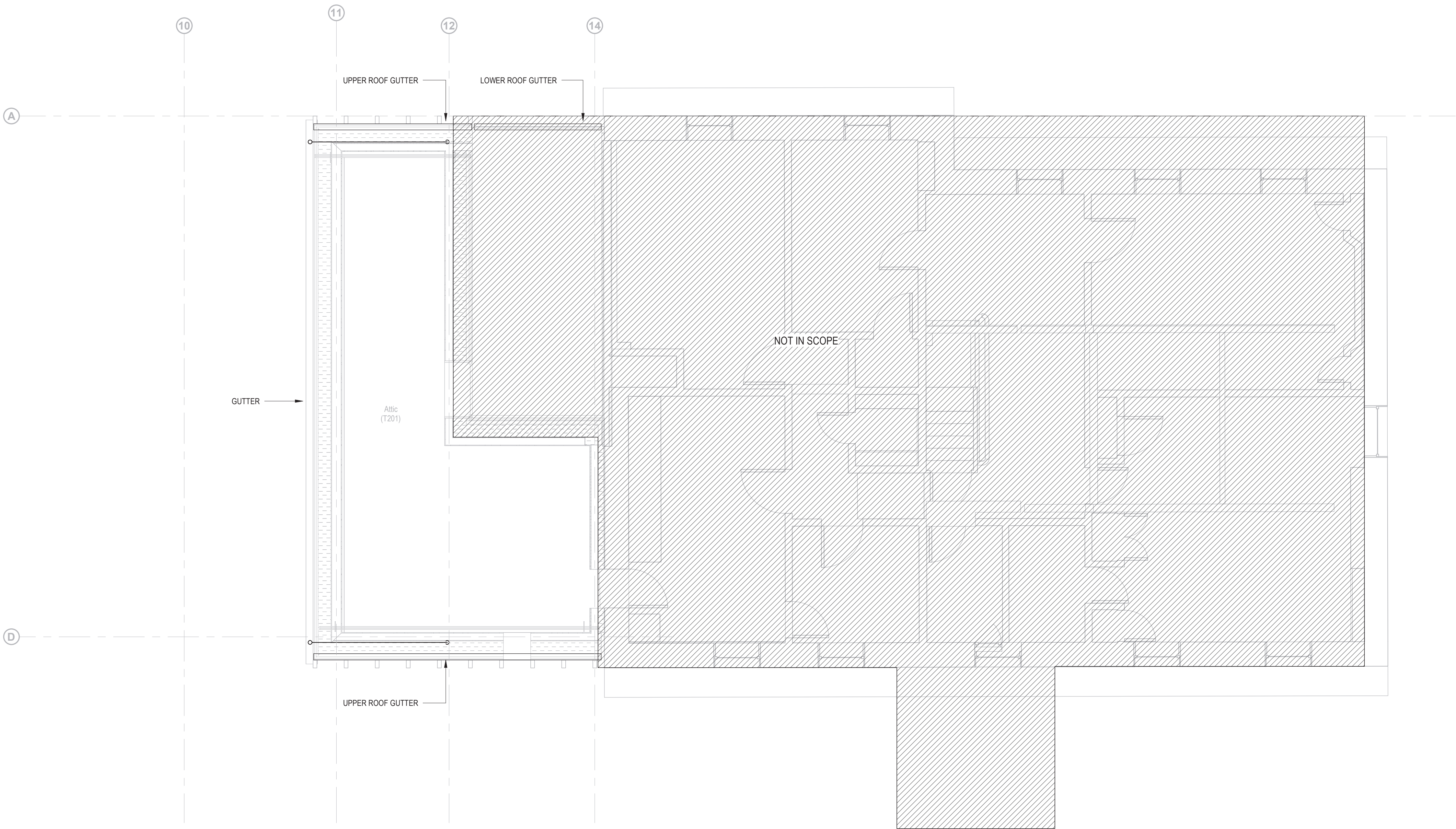
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Storm King Art Center Welcome Pavilions

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Drawing Title
Ticketing - Pipe Plan
- Ground Level

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Storm King Art Center Welcome Pavilions

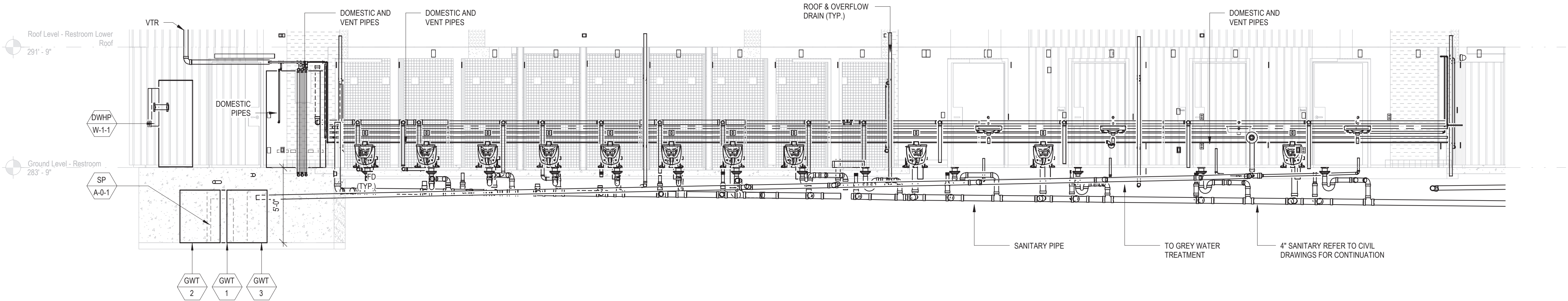
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Ticketing - Pipe Plan - Roof Level

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1 RESTROOM SECTION - PLUMBING
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Key Plan

Description	Date
Filing Set	06/17/22

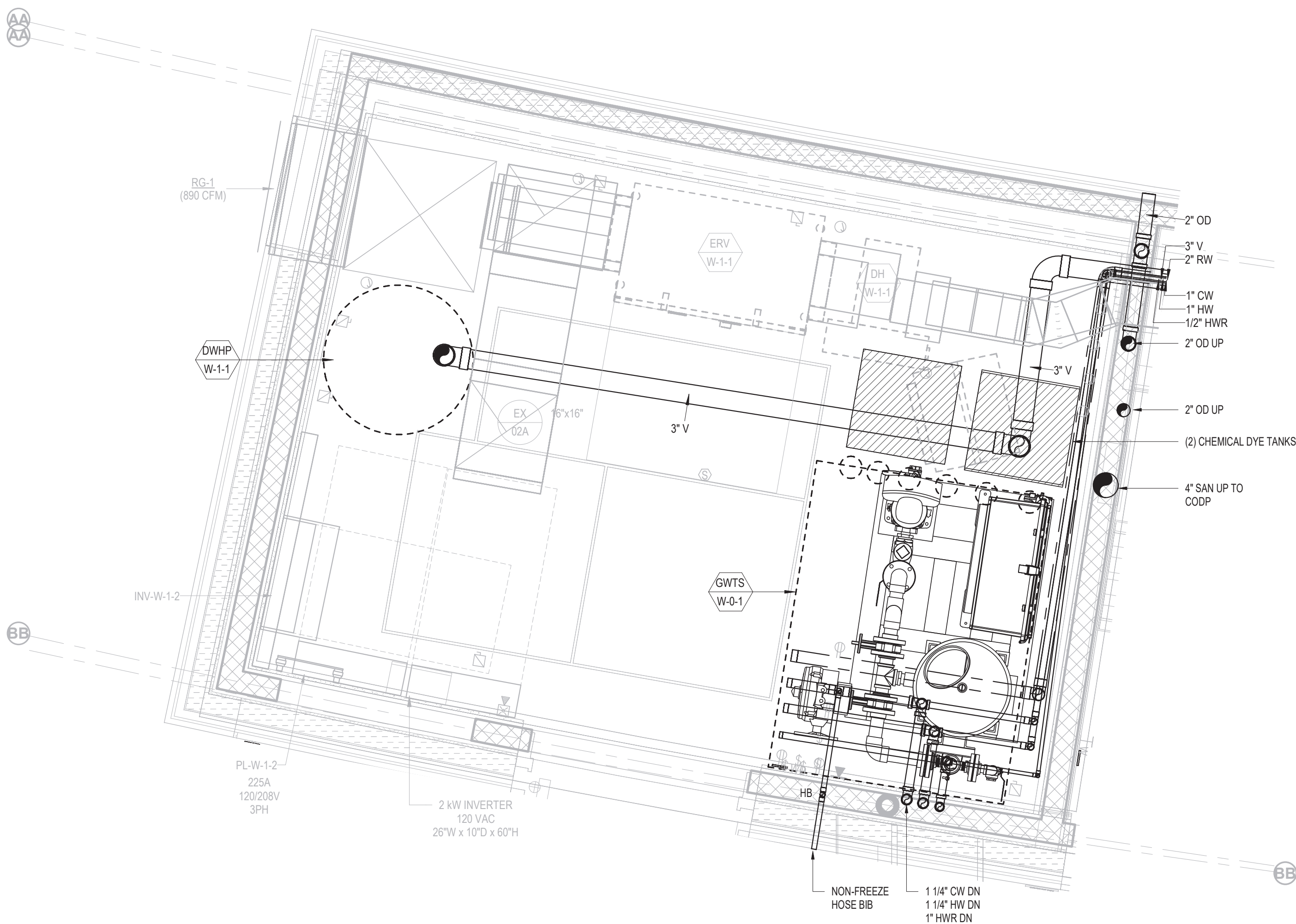
Project

Storm King
Art Center
Welcome
Pavilions

Seal

NOT FOR CONSTRUCTION
Drawing Title
Plumbing Sections

Date	06/17/22
Scale	1/4" = 1'-0"
Drawing Number	P-W-401
Sheet Size	ARCH D



1 RESTROOM LEVEL 1 - PLUMBING - MEP ROOM
SCALE 3/4" = 1'-0"

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Key Plan

Description	Date
Filing Set	06/17/22

Project

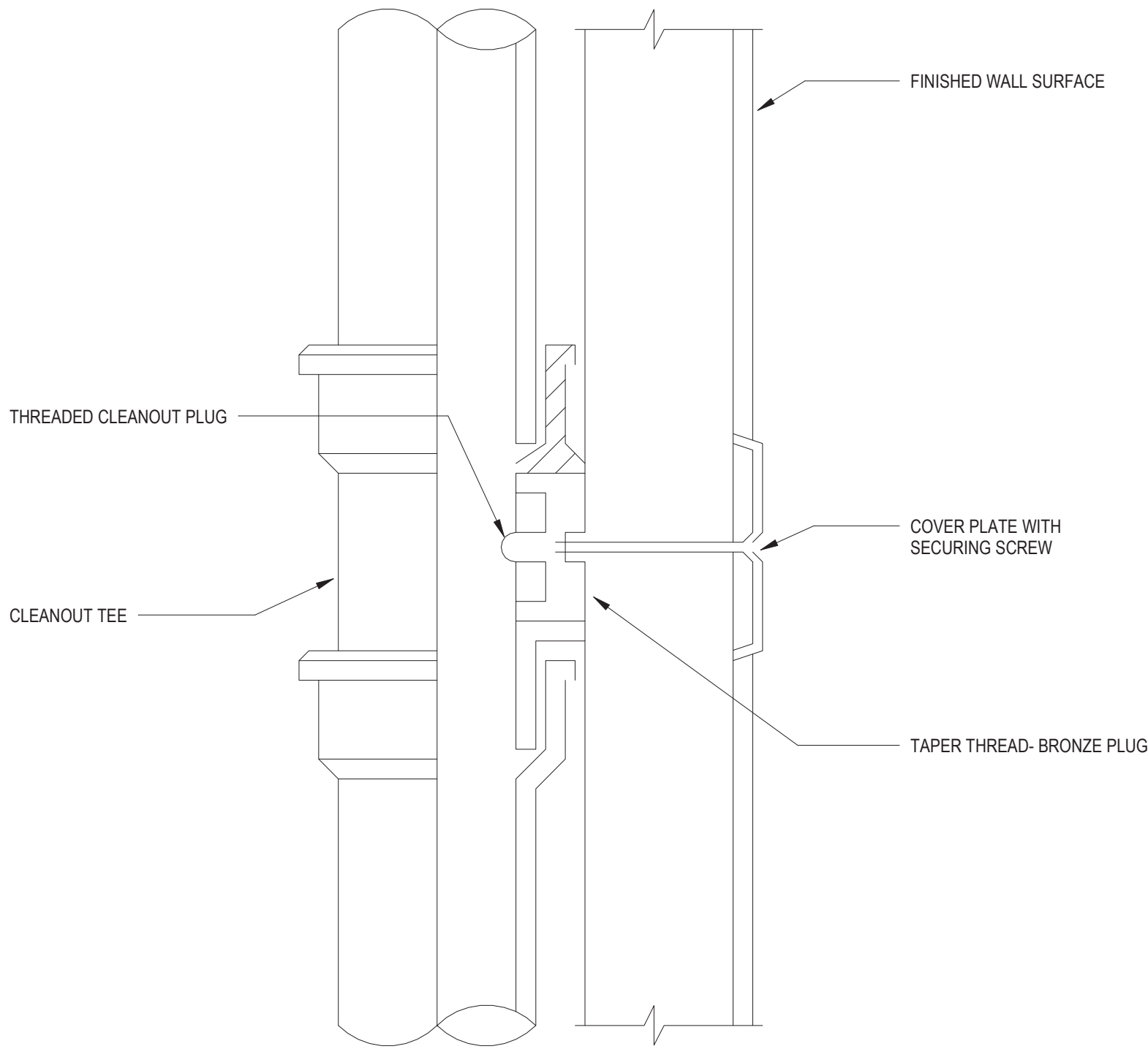
Storm King
Art Center

**Welcome
Pavilions**

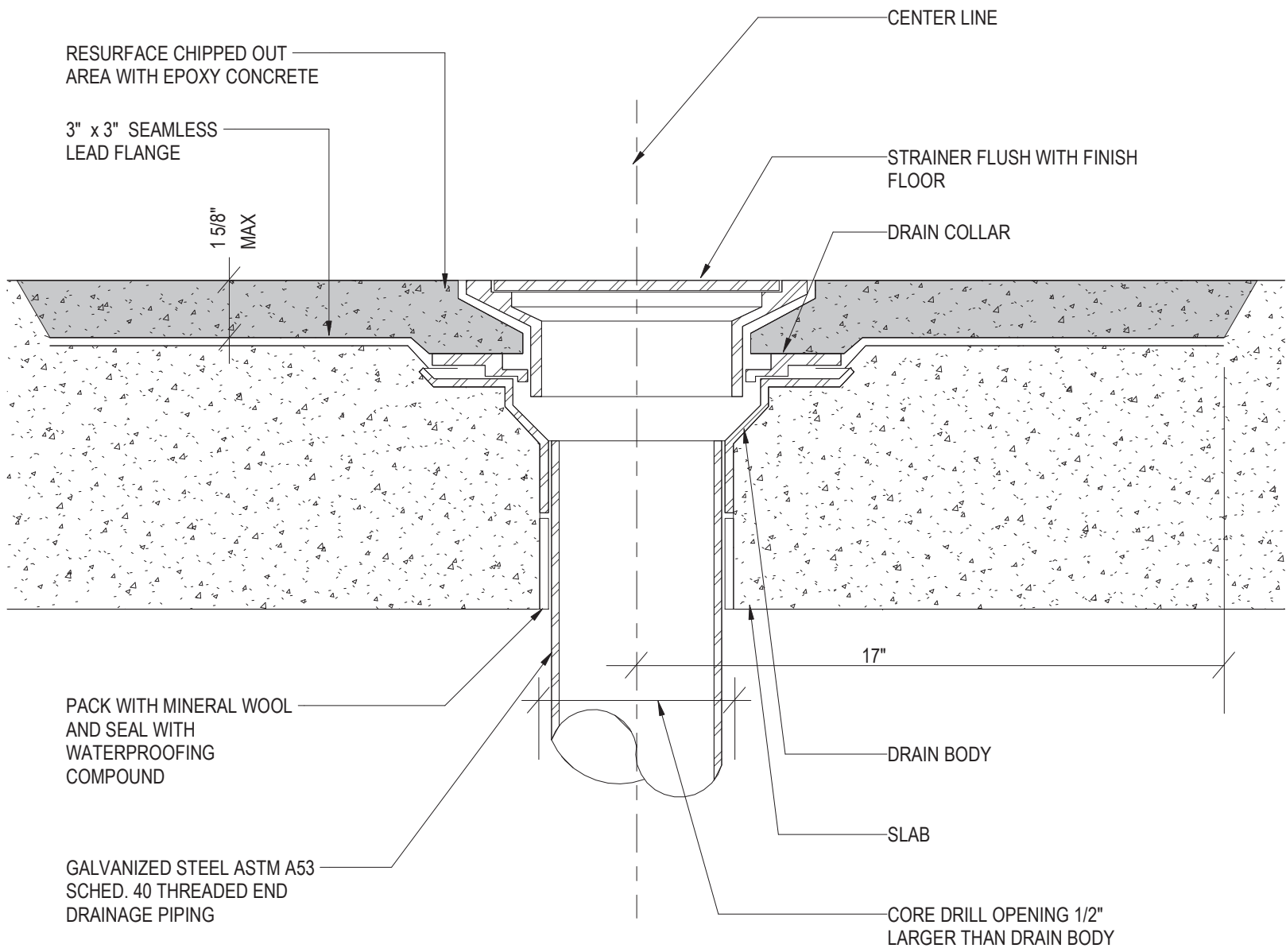
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Drawing Title
Plumbing Enlarged
Plans

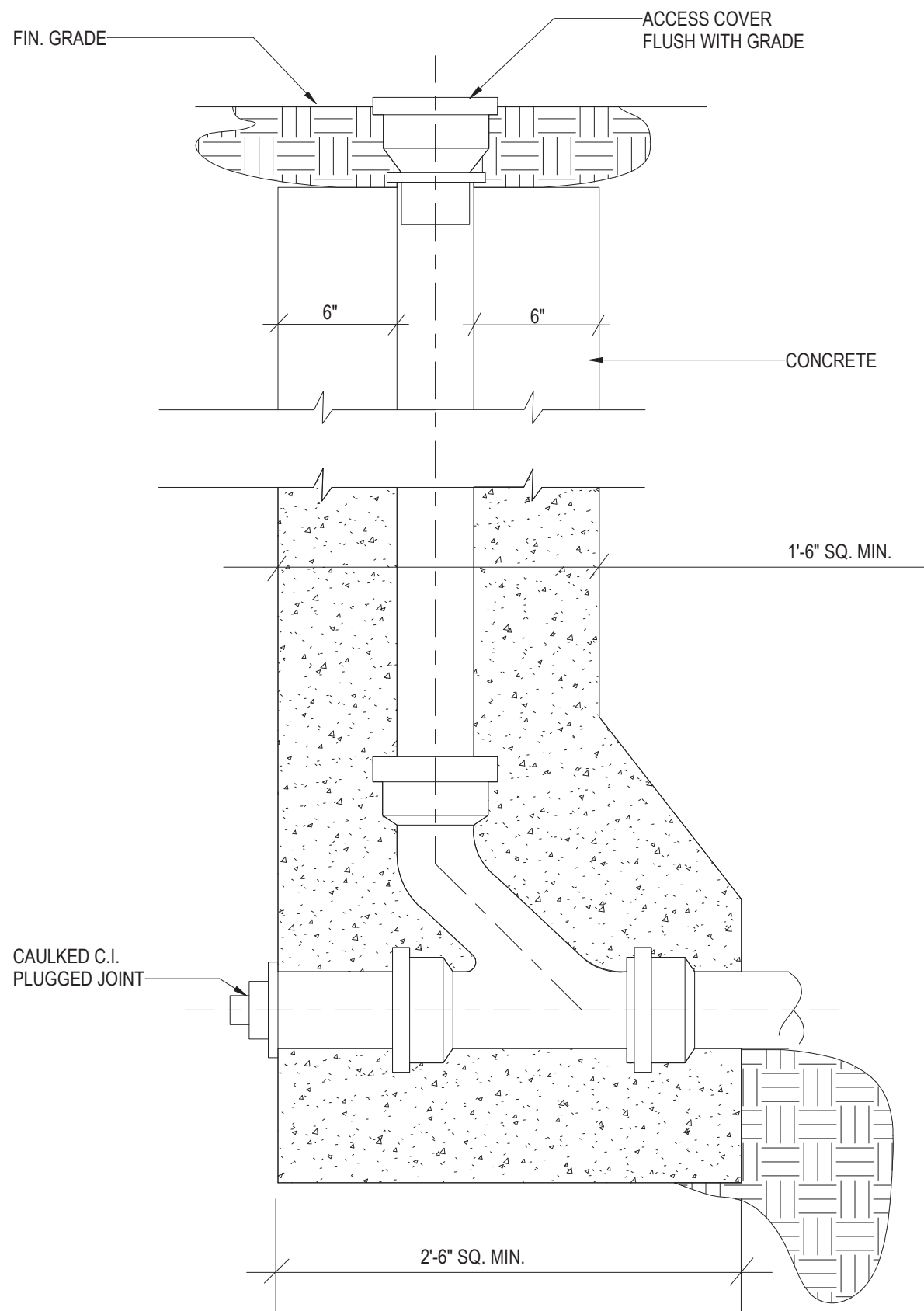
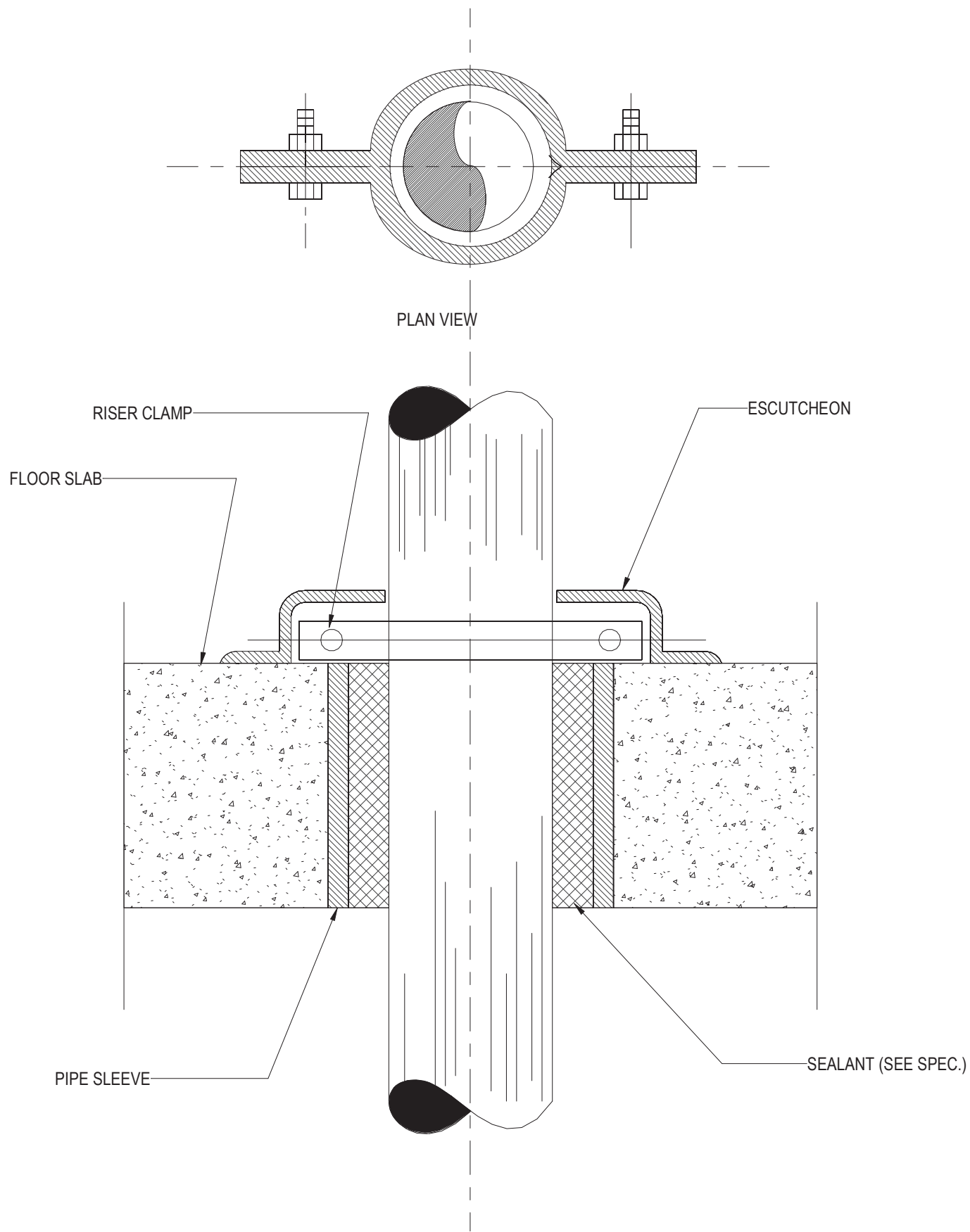
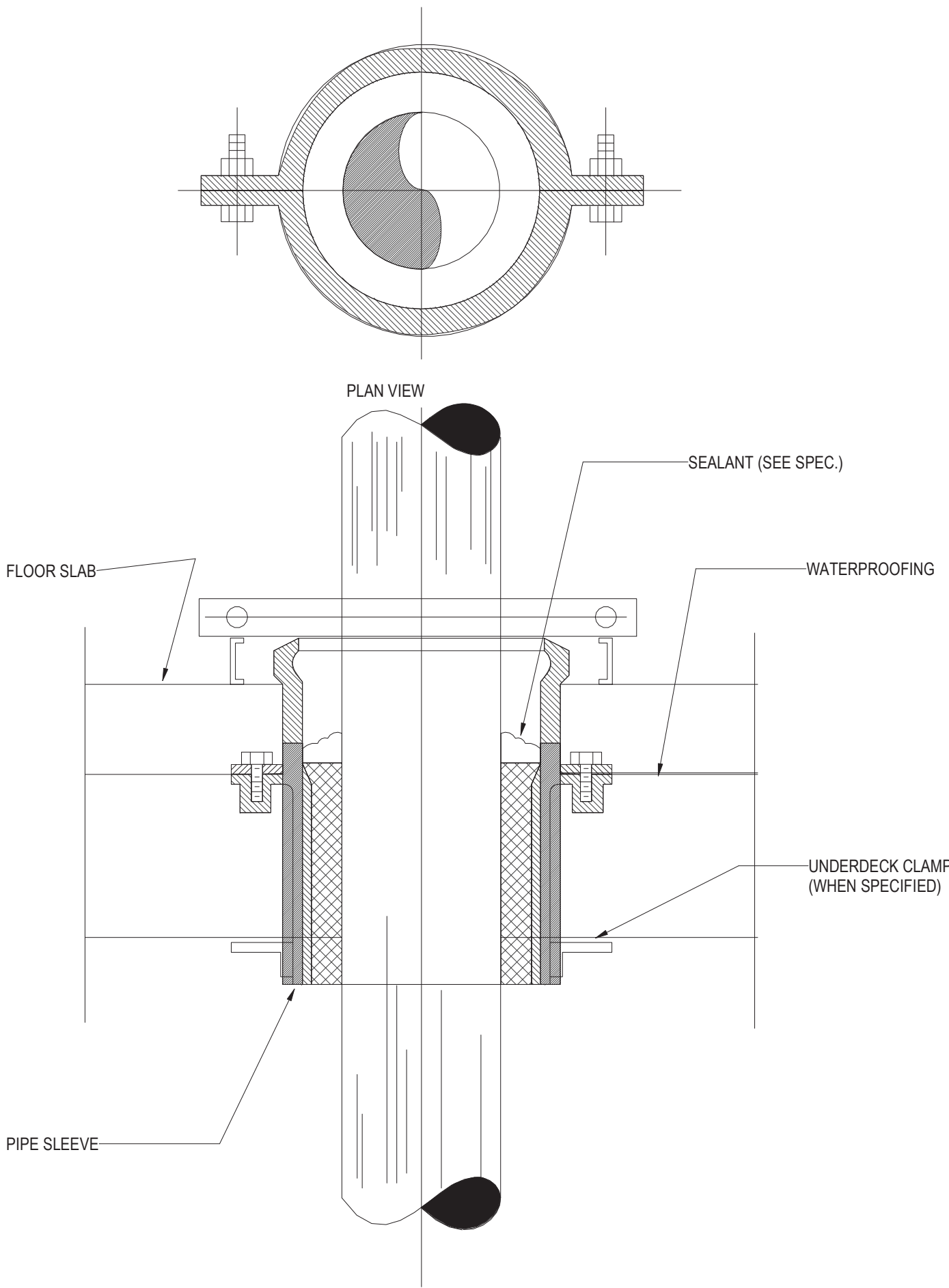
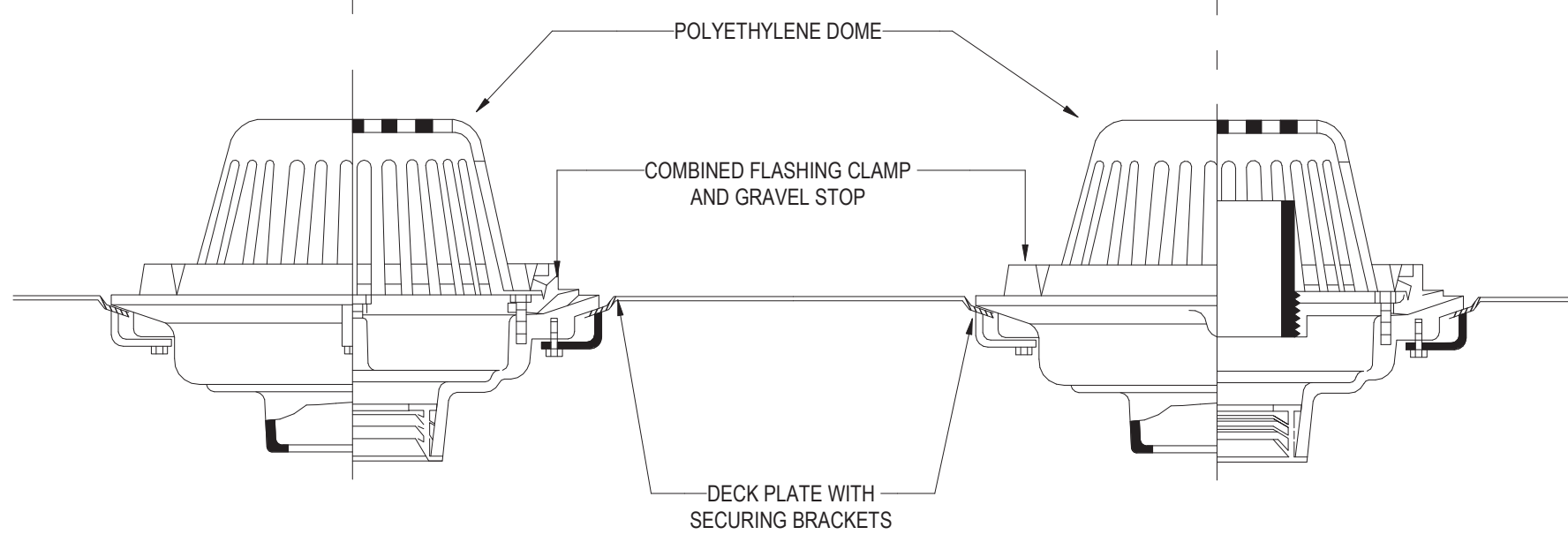
Date	06/17/22
Scale	3/4" = 1'-0"
Drawing Number	P-W-410
Sheet Size	ARCH D



NOTE:
ACCESS PANELS SHALL BE PROVIDED ON ALL VERTICAL FOUL DRAINAGE STACKS AT 4' (1200MM) ABOVE EACH FINISHED FLOOR LEVEL, TO THE CENTERLINE OF THE CLEANOUT.



NOTES:
1. WATERPROOF EXISTING FLOOR OF ROOM WHERE FLOOR DRAIN IS TO BE LOCATED USING THOROSEAL SEALANT OR APPROVED EQUAL.



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Key Plan

Description	Date
Filing Set	06/17/22

Project

Storm King
Art Center
Welcome
Pavilions

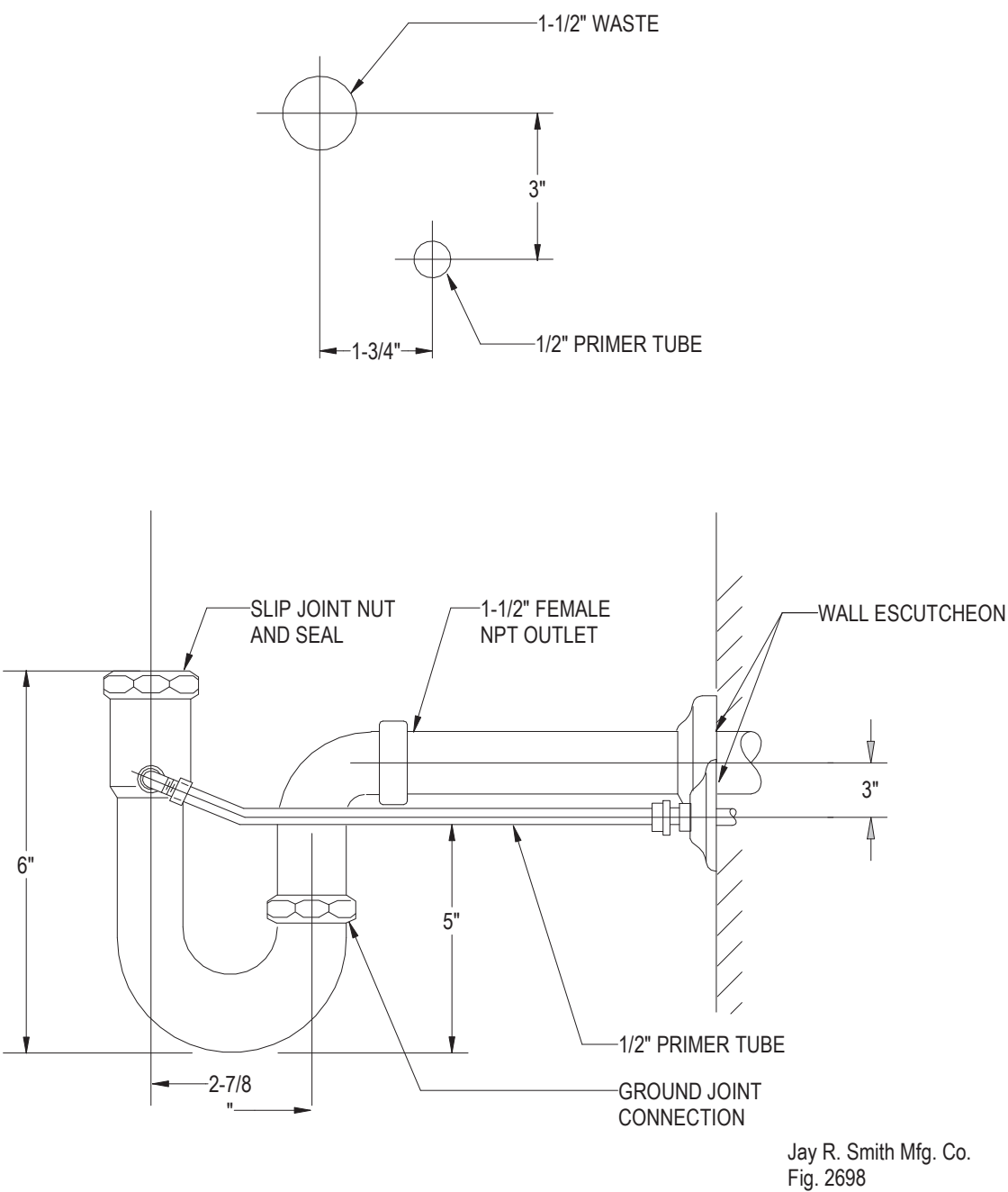
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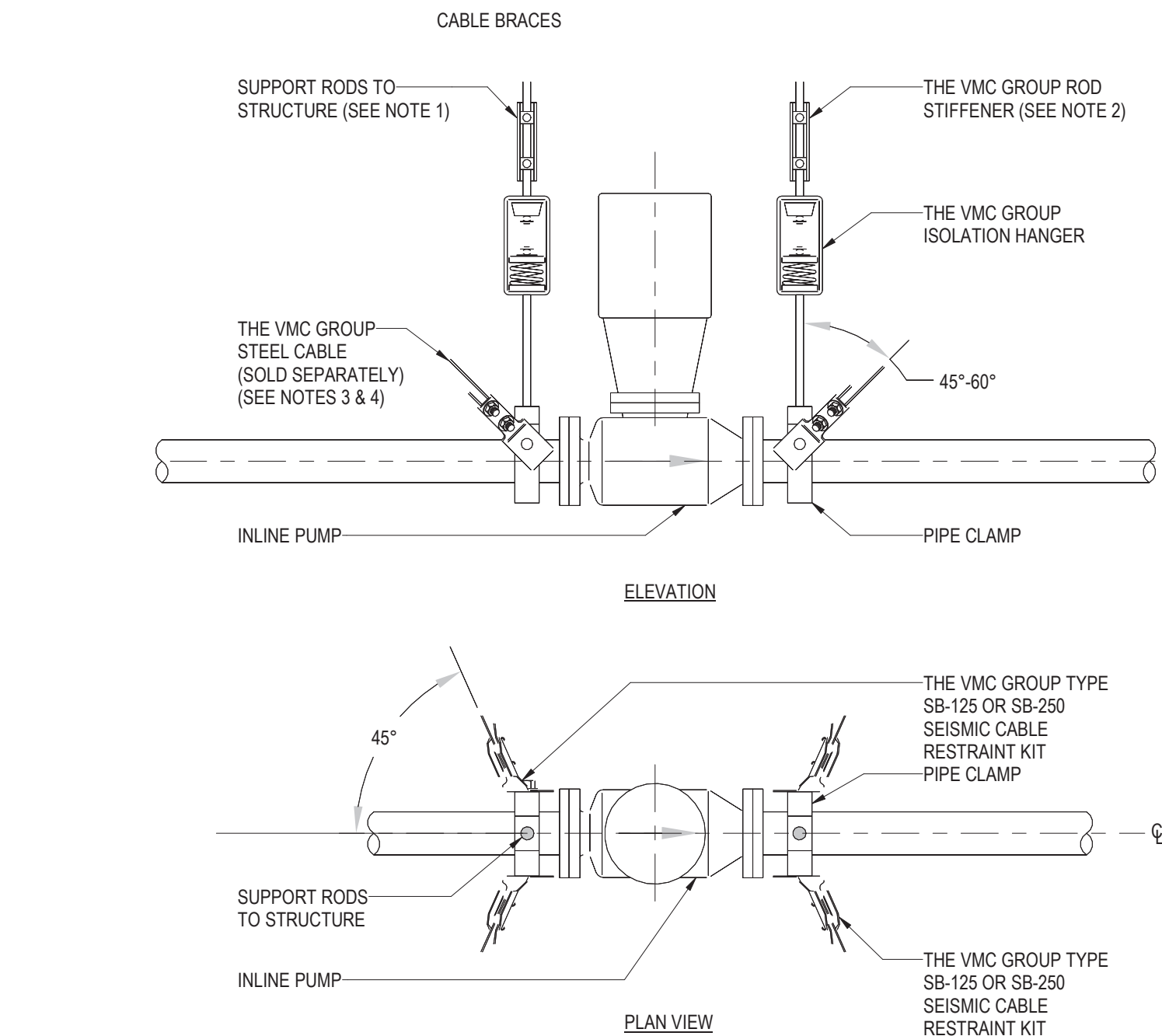
Drawing Title

Plumbing Details

Date	06/17/22
Scale	Not to Scale
Drawing Number	P-W-502
Sheet Size	ARCH D

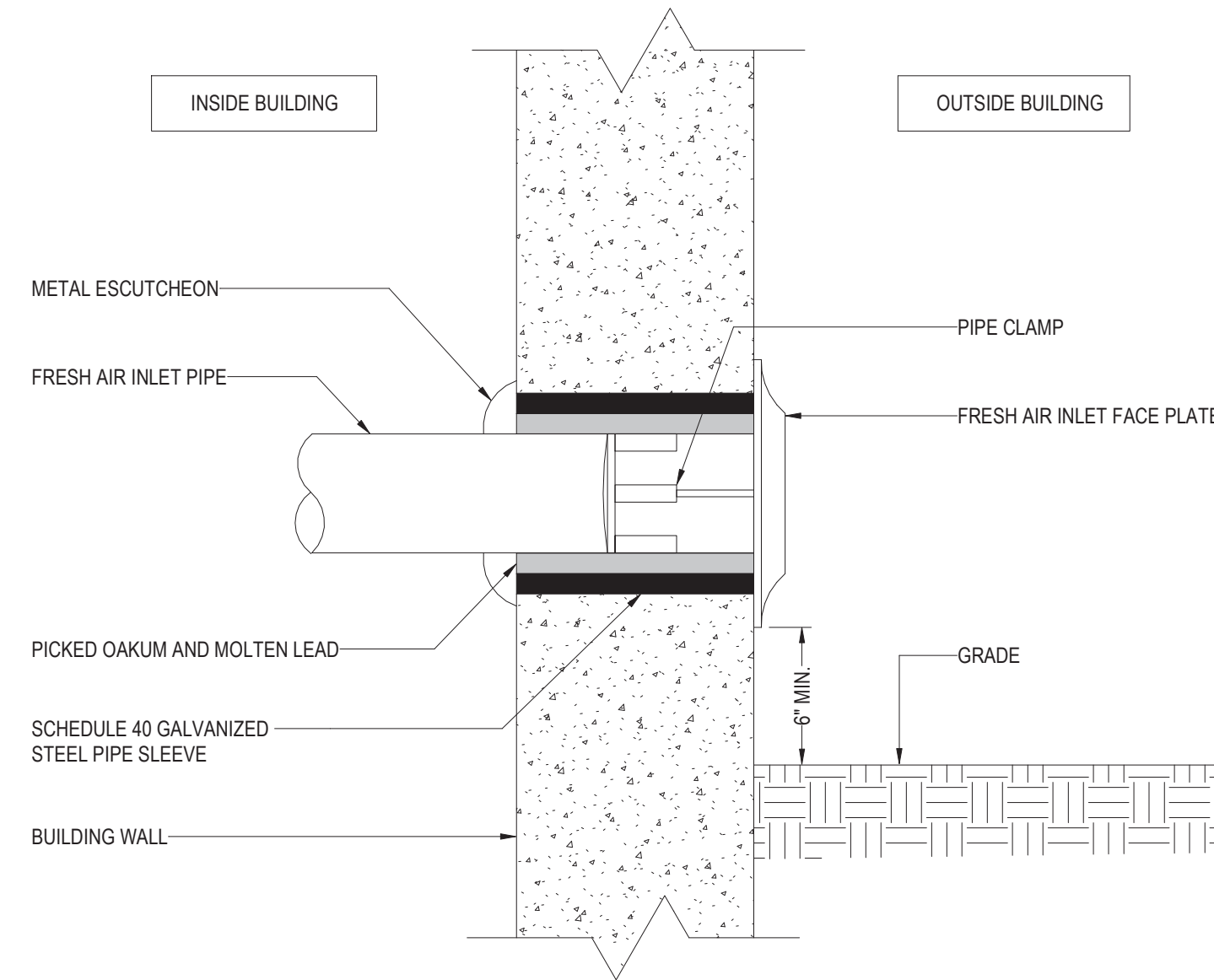


Jay R. Smith Mfg. Co.
Fig. 2698



NOTES:

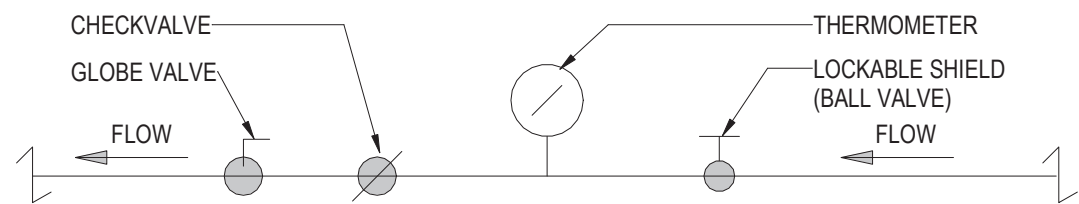
1. DOUBLE-SIDED BEAM CLAMP ATTACHMENTS AT SEISMIC RESTRAINT LOCATIONS.
2. FOR APPLICABILITY OF THE VMC GROUP SRBC (SEISMIC ROD BRACING CLAMP REFER TO SGMEC-190).
3. SLACK CABLE 1/2" IN CENTER IF DUCT IS ISOLATED.
4. FOR DETAILS OF CONNECTION, REFER TO SGMEC-191 OR -193
5. APPLICATION USED WITH 1/8" & 1/4" CABLE ONLY.



1 PRIM-EZE WATER SAVER
NOT TO SCALE

2 INLINE PUMPS
NOT TO SCALE

3 FAI
NOT TO SCALE



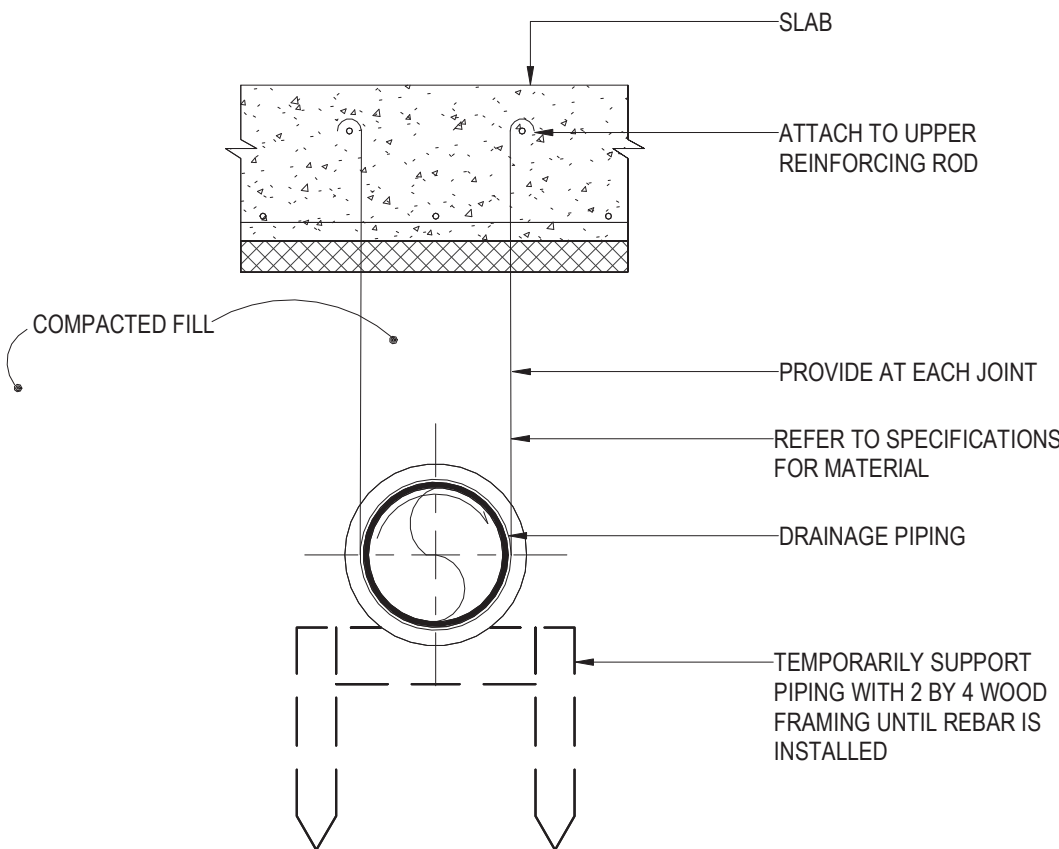
PROCEDURE FOR BALANCING HOT WATER RETURN PIPING

1. IN ORDER TO BALANCE HOT WATER RETURN TEMPERATURES IN THE RETURN PIPING THIS IS THE PROCEDURE TO BE FOLLOWED:

BEFORE A RETURN CIRCULATION SYSTEM IS PUT INTO SERVICE, IT SHOULD BE ADJUSTED FOR RETURN LINE TEMPERATURE BALANCE UNDER CONDITIONS WHEREBY NO WATER IS DRAWN AT FIXTURE OUTLETS. THE ADJUSTMENT PROCEDURE IS SIMPLE AND MAY BE ACCURATELY DONE USING THERMOMETERS. FIRST, CLOSE ALL BALANCING VALVES SO THAT ALL CIRCULATION GOES THROUGH BRANCH 1. THEN, OPEN THE BALANCING VALVE ON BRANCH 2 TO THE DEGREE NECESSARY SO THAT IT RETURNS WATER CONSTANTLY AT THE SAME TEMPERATURE AS BRANCH 1. SIMILARLY, ADJUSTMENT MAY BE MADE WITH BALANCING VALVE ON ANY OTHER RISERS OR BRANCHES SO THAT ALL RETURN WATER IS AT THE SAME TEMPERATURE.

- 2.

CONTRACTOR, AT THE END OF THE PROJECT, TO SUBMIT A REPORT FOR RECORD TO THE ENGINEER THAT THE HOT WATER RETURN CIRCULATION SYSTEM HAS BEEN BALANCED PROPERLY.

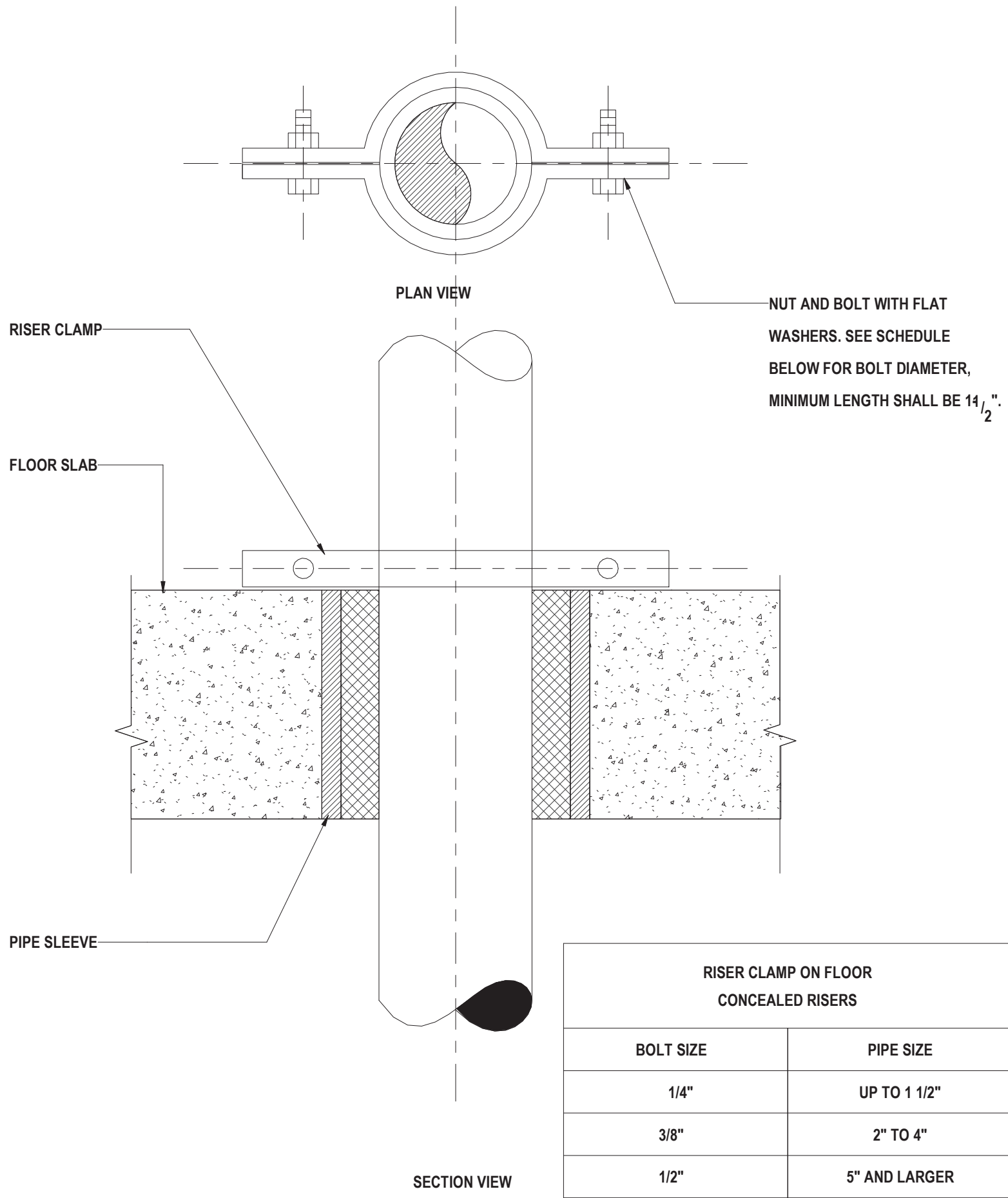


PIPE DIAMETER	ROD DIAMETER
UP TO 2IN.	3/8 IN.
2-1/2" - 4IN.	1/2 IN.
5 AND 6IN.	5/8 IN.

4 HW BALANCING VALVE
NOT TO SCALE

5 UNDERGROUND BELOW SLAB
NOT TO SCALE

6 RISER SUPPORT DETAIL
NOT TO SCALE



RISER CLAMP ON FLOOR CONCEALED RISERS	
BOLT SIZE	PIPE SIZE
1/4"	UP TO 1 1/2"
3/8"	2" TO 4"
1/2"	5" AND LARGER

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Key Plan

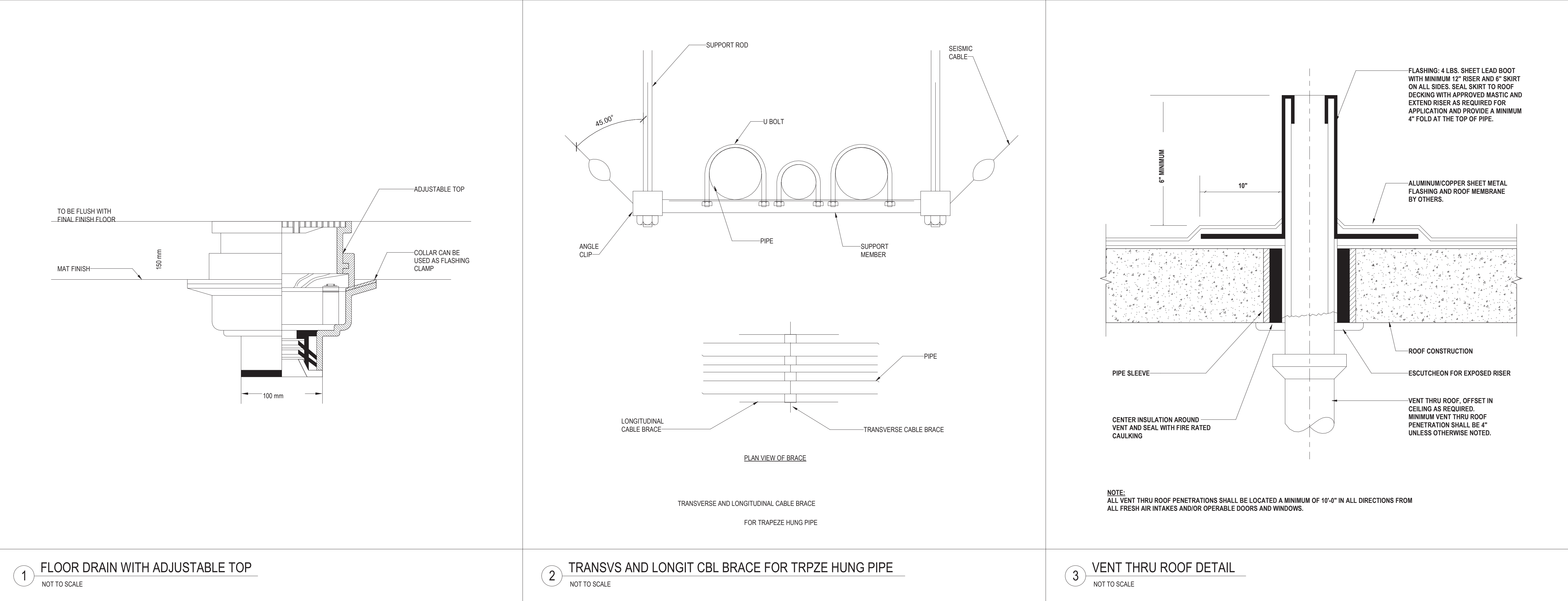
Description	Date
Filing Set	06/17/22

Project
Storm King
Art Center
Welcome
Pavilions

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Drawing Title
Plumbing Details

Date	06/17/22
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Drawing Number	P-W-503
Sheet Size	ARCH D



1 FLOOR DRAIN WITH ADJUSTABLE TOP
NOT TO SCALE

2 TRANSVS AND LONGIT CBL BRACE FOR TRPZE HUNG PIPE
NOT TO SCALE

3 VENT THRU ROOF DETAIL
NOT TO SCALE

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Drawing Title

Plumbing Details

Date	06/17/22
Scale	Not to Scale
Drawing Number	P-W-504
Sheet Size	ARCH D

Description	Date
Filing Set	06/17/22

P - ELECTRIC HEAT PUMP WATER HEATER SCHEDULE												
DESIGNATION	LOCATION	SERVICE	VOLUME (GAL)	DIMENSIONS		ELECTRICAL			WEIGHT (LB)	MANUFACTURER	MODEL NUMBER	REMARKS
				DIAMETER	HEIGHT	VOLTAGE	FREQUENCY	PHASE				
DWHP - W-1-1	LEVEL 01	RESTROOM	80	2' 3"	5' 9"	208 V	60 Hz	1	307	AO SMITH	HPTU-80N	

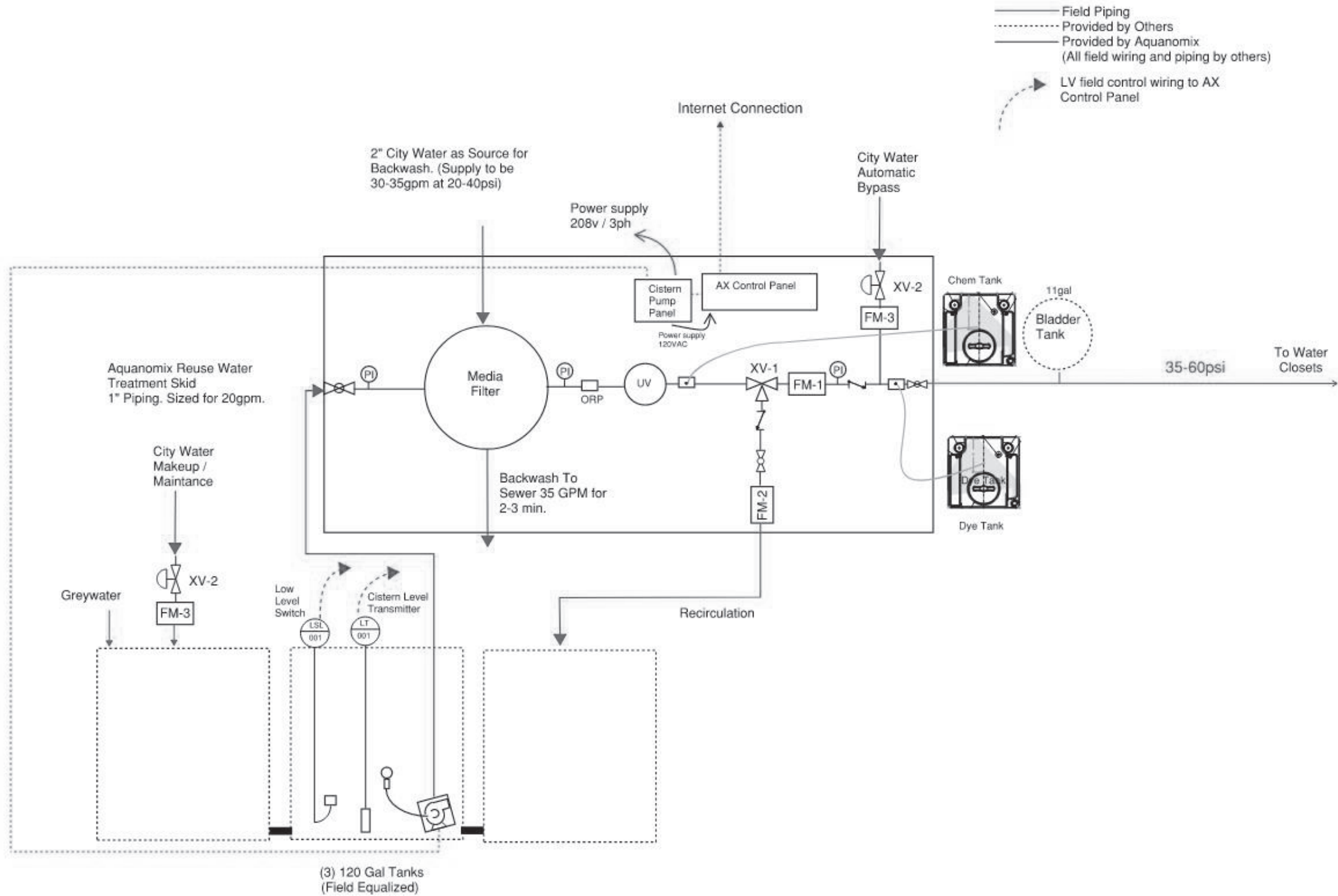
P - GREYWATER CISTERN TANK SCHEDULE						
DESIGNATION	LOCATION	SERVICE	DIAMETER	HEIGHT	REMARKS	
GWT - 1	UNDERSLAB - MECHANICAL ROOM	GREYWATER REUSE	32"	42"	120 GAL TANKS WITH FIELD INSTALLED EQUALIZATION LINES. PROVIDE WITH SUBMERSIBLE PUMP.	
GWT - 2	UNDERSLAB - MECHANICAL ROOM	GREYWATER REUSE	32"	42"	120 GAL TANKS WITH FIELD INSTALLED EQUALIZATION LINES.	
GWT - 3	UNDERSLAB - MECHANICAL ROOM	GREYWATER REUSE	32"	42"	120 GAL TANKS WITH FIELD INSTALLED EQUALIZATION LINES.	

P - GREYWATER TREATMENT PACKAGE SCHEDULE							
DESIGNATION	LOCATION	SERVICE	MICRON	LENGTH	WIDTH	HEIGHT	REMARKS
GWTS - W-0-1	MECHANICAL ROOM	GREYWATER REUSE	40	4'-8"	3'-7"	6'-5"	SINGLE POINT OF CONNECTION FOR ALL FILTERS, VALVES, SENSORS, AND CISTERN PUMP (208V, 3ph)

DESIGNATION	LOCATION	QUANTITY	FLOW (GPM)	T.D.H. (FT)	CAPACITY	PHASE	HP	VOLTAGE	FLA	LENGTH	WIDTH	DIAMETER	HEIGHT	REMARKS
CHEMICAL/DYE CONTAINERS	MECHANICAL ROOM	2	0	0	70 GAL	0	0	0	-	2'-0	2'-0	-	3'-3"	GEMINI SQUARE TANKS MOUNTED IN CEILING. EACH CONNECTS WITH POLY TUBING TO INJECTION PORTS ON SKID.
RECIRCULATION VALVE	GREY WATER TREATMENT SKID	1	20	0	-	0	0	0	-	-	-	-	-	AQUANOMIX AX3WV THREE-WAY VALVE.
EXTENDED SHELL MEDIA FILTER	GREY WATER TREATMENT SKID	1	20 (35GPM BACKWASH)	0	-	0	0	0	-	-	-	-	-	STAINLESS STEEL. GLASS MEDIA FILTERS TO 5 MICRON.
UV SYSTEM	GREY WATER TREATMENT SKID	1	20	0	-	0	0	120	-	-	-	-	-	AQUANOMIX AXUVV6 - 100PSI, 230W, 30MJ/cm2 TREATMENT.
ORP SENSOR	GREY WATER TREATMENT SKID	1	0	0	-	0	0	0	-	-	-	-	-	AQUANOMIX AXP ORP. ± 2000mV RANGE.
DIAPHRAGM TANK	GREY WATER TREATMENT SKID	1	0	0	11 GAL	0	0	0	-	-	-	1'-3"	2'-0"	15"DIA. x 24" 8-9 GAL DRAWDOWN.

SKID SYSTEM TO ALSO INCLUDE:
LEVEL SENSOR LEVEL SWITCH, PRESSURE INDICATORS, SYSTEM PRESSURE SENSOR, FLOW METER, CHECK VALVE, DOMESTIC WATER BACKUP CONNECTION, DOMESTIC WATER METER.
REFER TO GREYWATER SPECIFICATION SECTION FOR MORE INFORMATION.

P - CISTERN SUBMERSIBLE PUMP SCHEDULE												
DESIGNATION	TYPE	QUANTITY	LOCATION	FLOW RATE (GPM) PER PUMP	T.D.H. (FT)	SPEED (RPM)	ELECTRICAL			MANUFACTURER	MODEL NUMBER	REMARKS
							POWER	VOLTAGE	PHASE			
SP	SUBMERSIBLE GREYWATER TANK PUMP	1	UNDERSLAB - MECHANICAL ROOM	20 GPM	150	-	1.50 hp	220 V	1	AQUANOMIX	MXS206S22	8A, 40lbs, 21" HEIGHT, 5"DIA.



1 GREYWATER TREATMENT SCHEMATIC
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Key Plan

Description	Date
Filing Set	06/17/22

Project
Storm King
Art Center
**Welcome
Pavilions**
Seal

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Drawing Title
Welcome - Plumbing
Schedules

Date	06/17/22
Scale	Not to Scale
Drawing Number	P-W-601
Sheet Size	ARCH D

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Project

Seal

Drawing Title

Date 06/17/22

Scale Not to Scale

Drawing Number P-W-701

Sheet Size ARCH D



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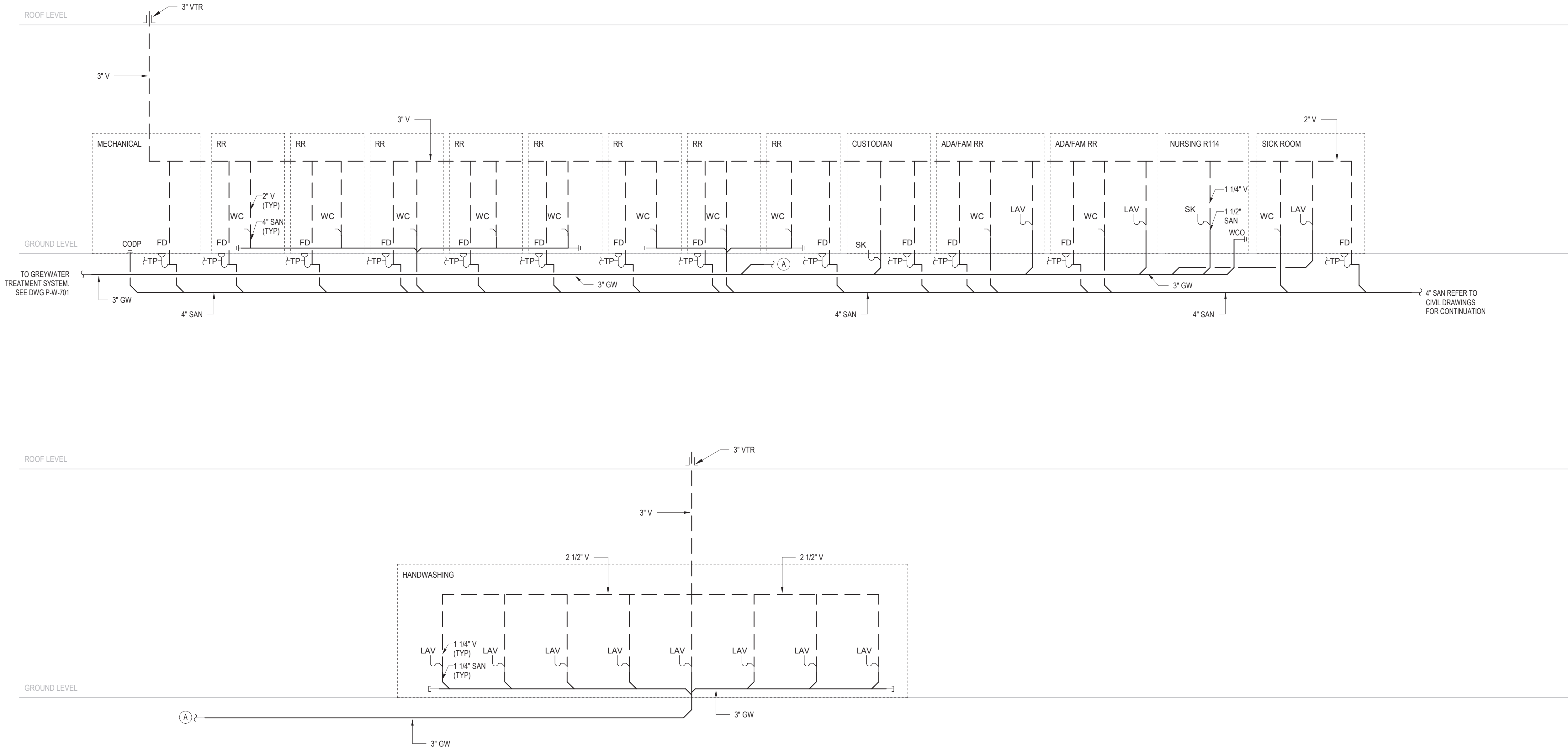
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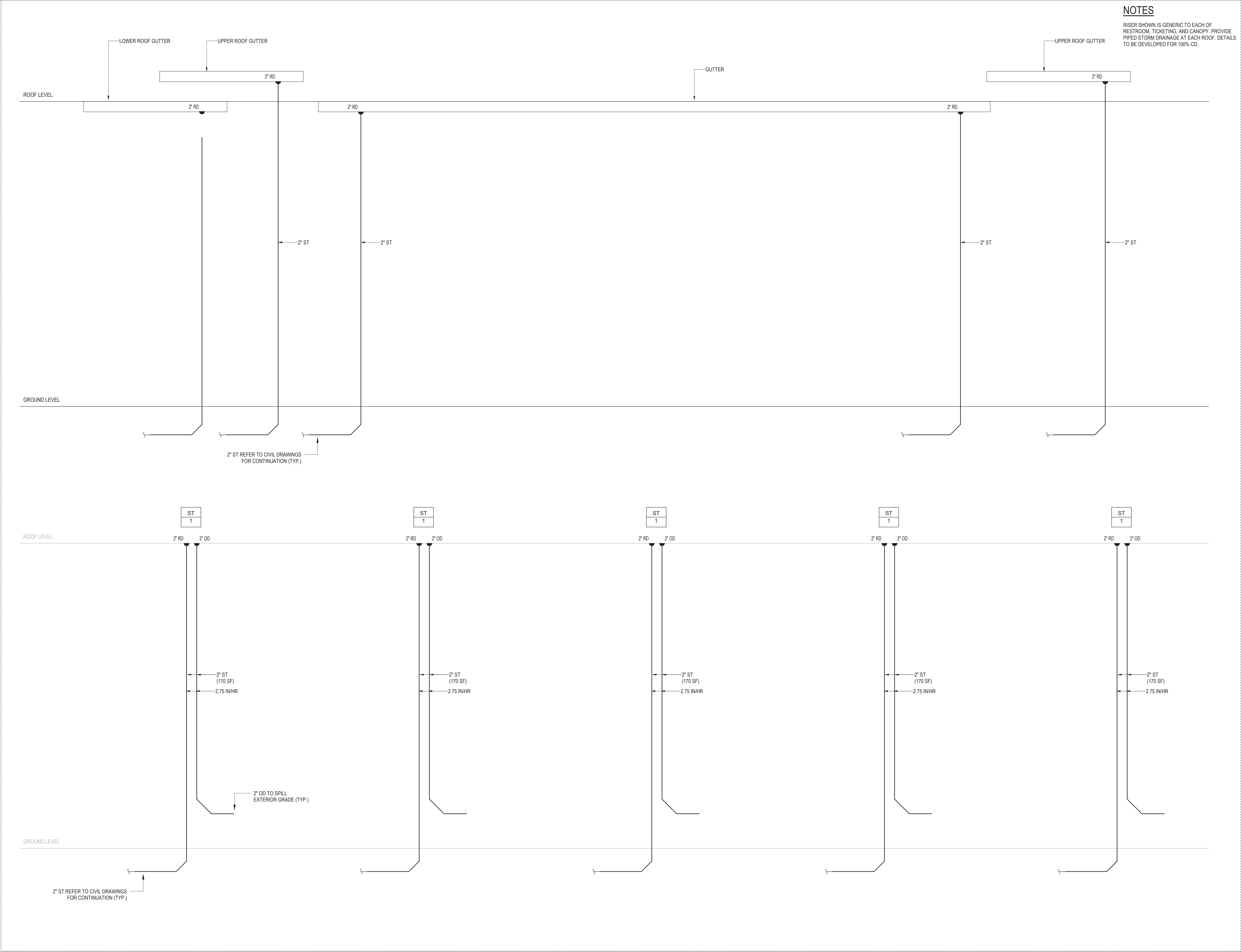
Storm King Art Center Welcome Pavilions

Seal

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Drawing Title
Welcome - Drain &
Vent Riser

Date	06/17/22
Scale	Not to Scale
Drawing Number	P-W-711
Sheet Size	ARCH D





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Key Plan

Description	Date
Filing Set	06/17/22

Project

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Seal

NOT FOR CONSTRUCTION

Drawing Title

Welcome - Storm
Riser

Date	06/17/22
Scale	Not to Scale
Drawing Number	P-W-721
Sheet Size	ARCH D