

PLUMBING FIXTURE SCHEDULE										
FIXTURE TYPE	DESCRIPTION	MOUNTING HEIGHT	COLD WATER, IN.	HOT OR TEMPERED WATER, IN.	WASTE, IN.	VENT, IN.	FIXTURE		FAUCET / FLUSH VALVE	
							MANUFACTURER	MODEL	MANUFACTURER	MODEL
EW-C-1	BI-LEVEL COOLER WITH BOTTLE FILLING STATION WITH FRONT AND SIDE PUSHBAR ACTIVATION AND SAFETY BUBBLER, HC	33" FLOOR TO LOW UNIT BUBBLE ORIFICE	1/2"		2"	2"	ELKAY	LZSTLBSW5LK		
IMB	RECESS STAINLESS STEEL ICE MAKER BOX	48" FLOOR TO CENTERLINE	1/2"				GUY GRAY	SSIB1AB		
L-1	VITREOUS CHINA, WALL HUNG LAVATORY, CONCEALED ARMS CARRIER, 4" CENTERS, METERING FAUCET, GRID DRAIN	31" FLOOR TO RIM	1/2"	1/2"	2"		AMERICAN STANDARD	0355.012	MOEN	8886
L-2	VITREOUS CHINA, WALL HUNG LAVATORY, CONCEALED ARMS CARRIER, 4" CENTERS, METERING FAUCET, GRID DRAIN	31" FLOOR TO RIM	1/2"	1/2"	2"		AMERICAN STANDARD	0355.012	MOEN	8886
L-3	VITREOUS CHINA, WALL HUNG LAVATORY, CONCEALED ARMS CARRIER, 4" CENTERS, METERING FAUCET, GRID DRAIN	31" FLOOR TO RIM	1/2"	1/2"	2"		AMERICAN STANDARD	0355.012	MOEN	8886
L-4	LAVATORY SYSTEM, CONTINUOUS SOLID SURFACE BOWL, WALL HUNG, 4" CENTERS, ARCHITECT TO SELECT COLORS.	31" FLOOR TO RIM	1/2"	1/2"	2"	2"	BRADLEY	EXD-3N	BRADLEY	S53-341TMA
L-5	VITREOUS CHINA, WALL HUNG LAVATORY, CONCEALED ARMS CARRIER, 4" CENTERS, METERING FAUCET, GRID DRAIN	27" FLOOR TO RIM	1/2"	1/2"	2"		AMERICAN STANDARD	0355.012	MOEN	8886
MB-1	MOLDED STONE, 24"x24"x10", FLOOR MOUNTED MOP SINK, WALL BRACKET FAUCET WITH INTEGRAL VACUUM BREAKER, HOSE, HOSE HOLDER AND MOP HOLDER	FLOOR MOUNTED, FAUCET AT 36" ABOVE FLOOR	3/4"	3/4"	3"	2"	FIAT	MSB2424	FIAT	830-832-AA
S-										
SH-	PRESSURE BALANCING SINGLE LEVER MIXING VALVE WITH HAND HELD SHOWER, 69" METAL HOSE, VACUUM BREAKER, 30" SLIDE BAR, 2.5 GPM	42" TO CENTERLINE OF CONTROL VALVE	1/2"	1/2"	2"	2"	MOEN	8342		
UR-2	VITREOUS CHINA, WALL MOUNTED URINAL, WASHOUT, MANUAL FLUSH, 0.5 GPF, HC	17" FLOOR TO RIM	3/4"		2"		AMERICAN STANDARD	6590.001	SLOAN	186-0.5
WC-	VITREOUS CHINA, FLOOR MOUNTED WATER CLOSET, MANUAL FLUSH VALVE, 1.28 GPF, HC	17" FLOOR TO RIM	1"		4"		AMERICAN STANDARD	3461.001	SLOAN	111
WC-1	VITREOUS CHINA, WALL MTD WATER CLOSET, BATTERY OPERATED AUTOMATIC FLUSH VALVE, 1.28 GPF	15" FLOOR TO SEAT	1"		4"		AMERICAN STANDARD	3351.001	SLOAN	111
WC-2	VITREOUS CHINA, WALL MTD WATER CLOSET, BATTERY OPERATED AUTOMATIC FLUSH VALVE, 1.28 GPF	17" FLOOR TO RIM	1"		4"		AMERICAN STANDARD	3351.001	SLOAN	111
WC-3	VITREOUS CHINA, FLOOR MOUNTED WATER CLOSET, MANUAL FLUSH VALVE, 1.28 GPF	15" FLOOR TO RIM	1"		4"		AMERICAN STANDARD	3451.001	SLOAN	111

GREASE INTERCEPTOR						
MARK	LOCATION	BASIS OF DESIGN	TANK MATERIAL	CAPACITY, GPM	GREASE CAPACITY, LBS	CONNECTIONS

SUMP PUMPS									
MARK	LOCATION	BASIS OF DESIGN	TYPE	CAPACITY, GPM	PUMP HEAD, FT H2O	CONNECTION SIZE	MOTOR DATA		
							HP	VOLTAGE, V	PHASE

DOMESTIC WATER ACCESSORIES				
TYPE	DESCRIPTION	BASIS OF DESIGN	CONNECTION, IN.	MOUNTING HEIGHT

DRAIN SCHEDULE							
TYPE	DRAIN TYPE	MANUFACTURE R	MODEL	BODY TYPE	GRATE SIZE	GRATE FINISH / TYPE	CONNECTIO N SIZE
RD-A	ROOF DRAIN	JOSAM	21500-AE-22	CAST IRON	15" DIA.	C.I. LOCKING DOME	3"

DOMESTIC WATER HEATERS												
MARK	LOCATION	BASIS OF DESIGN	ASME CONSTR.	RECOVERY AT 100°F RISE (GPH)	FUEL DATA				ELECTRICAL DATA		TEMP SETTING, °F	PIPE CONNECTION SIZE
					TYPE	INPUT, MBH	OUTPUT, MBH	GAS PRESSURE, in W.C.	VOLTAGE, V	PHASE		

DOMESTIC HOT WATER CIRCULATING PUMPS											
MARK	LOCATION	SYSTEM	BASIS OF DESIGN	TYPE	CAPACITY, GPM	PUMP HEAD, FT H2O	CONNECTION SIZE	SET POINT TEMPERATURE, °F	MOTOR DATA		
									HP	VOLTAGE, V	PHASE

GENERAL PLUMBING NOTES

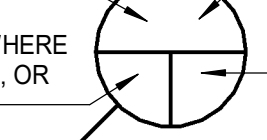
1. REFER TO CIVIL DRAWINGS FOR THE EXTENT OF ALL PIPING ENTERING AND EXITING BUILDING.
2. ALL PIPING AROUND SINKS, SLOPES, AND OTHER SEWER PIPING EXCEPT THE BUILDING SHALL BE CAST IRON OR SCHEDULE 40 PVC TO AT LEAST 5" OUTSIDE THE BUILDING WALL UNLESS OTHERWISE SPECIFIED.
3. MAKE PROPER H & V, HW, VR, V, W, G, ETC. PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL BRANCH MAINS, ELBOWS AND CONNECTIONS ARE ABOVE GROUND.
4. COORDINATE WITH ARCHITECTURAL WORKING DRAWINGS BEFORE ROUGH-IN/IN PLUMBING FIXTURES TO VERIFY LOCATION AND ELEVATION OF SEWERS, MANHOLES, SLOPES AND INVERT ELEVATIONS OF SEWERS, MANHOLES, GREASE INTERCEPTORS, ETC. SHALL BE ESTABLISHED AND VERIFIED BY PLUMBING CONTRACTOR. IF ANY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED AND NECESSARY INVERT ELEVATIONS ESTABLISHED.
5. COORDINATE THE LOCATION OF ALL PIPING WITH LIGHTING FIXTURES, DUCT, GRILLES, HEATING, PIPING, ETC.
6. ALL PIPING CONDUITS SHALL BE 1/2" MIN. TO 3/4" MIN. TO URINALS, 1/2" MIN. TO C/W TO LAVS & SINKS, 1/2" MIN. TO C/W TO 3/4" MIN. TO SINKS.
7. ALL PIPING 1/2" & 3/4" MIN. SHALL HAVE HOLES FOR HOLDING SUPPORTING BOLTS FOR WALL HANGERS ON LAVATORIES AND URINALS. PLATE TO BE INSTALLED IN WALL CONSTRUCTION BETWEEN PIPING AND WALL.
8. ALL FLOOR DRAINS SHALL HAVE STANDARD 3" SEAL, CAST IRON, P-TRAPS IN ACCORDANCE WITH THE PLUMBING CODE. FLOOR DRAIN TRAP SEALS SUBJECT TO LOSSING BY FLOODING. FLOOR DRAIN SHALL BE 1/2" MIN. TO 3/4" MIN. PRIMERS.
9. ALL FLOOR DRAINS SHALL BE PIPED WITH A TRAP PRIMER.
10. ALL CUTOFF VALVES, SHOCK ABSORBERS, ETC. SHALL BE ABOVE GROUND THROUGHOUT THE ENTIRE BUILDING. IF LAY- IN CEILING, PROVIDE ACCESS DOOR WHERE REQUIRED.
11. CONTRACTOR SHALL VERIFY LOCATION OF ALL PIPING, MANHOLES, MANHOLES, ETC. BEFORE ANY PIPING IS INSTALLED.
12. CONTRACTOR SHALL COORDINATE FLUSH VALVE HEIGHTS WITH BARB AND TRAP PRIMER. CONTRACTOR SHALL MAKE MODIFICATIONS TO FLUSH VALVES TO ENSURE THEY FIT WITH GRAB BAR MOUNTING HEIGHTS.
13. ALL PIPING TERMINALS AND TRAP PRIMER SHALL BE A MINIMUM OF 25" AWAY FROM HVAC UNITS, AIR INTAKE, FRESH AIR INTAKE LOUVERS, OUTSIDE EQUIPMENT SCREENS.
14. ALL PIPING SHALL BE CLEANED AND TESTED BEFORE ANY FLOOR CONDUCTORS, SINK, STOKES AND WASTE STACKS.
15. FLUSH VALVE ACTUATORS FOR WC-2 AND WC-3 WATER TOILETS SHALL BE LOCATED OUTSIDE OF THE BUILDING AT THE TOILET COMPARTMENT IN ACCORDANCE WITH ICC/ANSI A117.1, SECTION 604.6 AND 2010 STANDARDS FOR ACCESSIBLE DESIGN.
16. ALL FLOOR DRAINS AND OPEN SIGHT DRAINS SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT PADS IN MECHANICAL ROOMS.
17. NO PIPING OR TRAP PRIMER SHALL BE INSTALLED IN CEILING INSTALL BETWEEN 3 AND 5 FEET ABOVE FINISHED FLOOR.
18. WATER SUPPLIES TO ALL MOP BASINS SHALL BE EQUIPPED WITH A STOP VALVE.
19. SEE ARCHITECTURAL DRAWINGS FOR ALL PHASING DETAILS.
20. CONTRACTOR SHALL COORDINATE ALL FOOTING AND FOUNDATION ELEVATIONS WITH ALL PIPING PRIOR TO UNDERGROUND PIPING LAYOUT.

PLUMBING LEGEND SYMBOLS AND ABBREVIATIONS

TYPICAL PIPING		
BRANCH FROM	TYPICAL PIPING	
TOP OF MAIN		o
BOTTOM OF MAIN		u
SIDE OF MAIN		j
RISER		o
IN PLAN		o
DIAGRAMMATIC		o
COLD WATER		DCW
HOT WATER		DHW
HOT WATER RETURN		DHWR
TEMPERED WATER		DTW
SANITARY SOIL & WASTE		SAN
SANITARY VENT		-----SV-----
STORM SEWER		SD
SECONDARY STORM SEWER		SSD
LOW PRESSURE NATURAL GAS		LPG
MEDIUM PRESSURE NATURAL GAS		MPG
DIRECTION OF SLOPE DOWN		-----SD-----
DIRECTION OF FLOW		-----SD-----
CUTOFF VALVE (IN PLAN)		o
CUTOFF VALVE (IN VERTICAL)		o CV
GLOBE VALVE		o
CHECK VALVE		o
BALANCING COCK		o
GAS COCK		o
BACKFLOW PREVENTER		BFP
TEMPERING VALVE		o
CLEAN-OUT		CO
SHOCK ABSORBER		SA
STRAINER		o
HANDICAPPED ACCESSIBLE FIXTURE		o
CONNECT TO EXISTING		o
EXTENT OF DEMOLITION		o
NEW WORK		o
EXISTING WORK TO REMAIN		o
EXISTING WORK TO BE REMOVED		o

ABV	- ABOVE	HWR	- HOT WATER RETURN
AD	- ACCESS DOOR	IMB	- ICE MAKER BOX
BEL	- BELOW	INV	- INVERT
BFF	- BELOW FINISHED	LV	- LAVATORY
	FLOOR	LO	- LAUNDRY DRAIN
BFG	- BELOW FINISHED	LPQ	- LOW PRESSURE GAS
	GRADE	MPG	- MEDIUM
BFP	- BACKFLOW		PRESSURE GAS
	PREVENTER	MS	- MOP SINK
CI	- CAST IRON	OSD	- OPEN SITE DRAIN
CG	- CEILING	PVC	- POLYVINYL CHLORIDE
CO	- CLEAN-OUT	P&T	- PRESSURE &
CONC	- CONCRETE		TEMPERATURE
CV	- CUTOFF VALVE		RELIEF VALVE
OW	- COLD WATER	RD	- ROOF DRAIN
DFU	- DRAINAGE FIXTURE	SA	- SHOCK ABSORBER
	UNIT	SAN	- SANITARY
DI	- DUCTILE IRON	SD	- STORM SEWER
DISP	- DISPOSER	SF	- SQUARE FEET
DN	- DOWN	SH	- SHOWER
ELEV	- ELEVATION	SI	- SOLIDS INTERCEPTOR
EWIC	- ELECTRIC WATER	SP	- SUMP PUMP
	COOLER	ST	- STORAGE TANK
FD	- FLOOR DRAIN	TET	- THERMAL EXPANSION
FL	- FLOOR		TANK
FM	- FIRE MAIN	TP	- TRAP PRIMER
FS	- FLOOR SINK	TV	- TEMPERING VALVE
G	- GAS	TW	- TEMPERED WATER
GI	- GREASE	UR	- URINAL
	INTERCEPTOR	UNO	- UNLESS NOTED
GM	- GAS-METER		OTHERWISE
GR	- GAS REGULATOR	V	- VENT
GT	- GREASE TRAP	VB	- VACUUM BREAKER
GW	- GREASE WASTE	VTR	- VENT-THRU-ROOF
GWH	- GAS-WATER HEATER	W	- WASTE
HW	- HOSE BIBB	WC	- WATER CLOSOUT
HB	- HOT WATER	WCO	- WALL CLEAN OUT
HWCP	- HOT WATER	WH	- WALL HYDRANT
	CIRCULATION PUMP		

IDENTIFICATION KEY



SECTION, ELEVATION, OR DETAIL SYMBOL

PLUMBING SHEET INDEX	
Sheet Number	Sheet Name
P-001	PLUMBING LEGEND, SCHEDULES, DETAILS AND NOTES
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P-102	PLUMBING FOUNDATION PLAN - FIRST FLOOR AREA B
P-203	PLUMBING FOUNDATION PLAN - SECOND FLOOR AREA A
P-201	PLUMBING SANITARY PLAN - FIRST FLOOR AREA A
P-202	PLUMBING SANITARY PLAN - FIRST FLOOR AREA B
P-203	PLUMBING SANITARY PLAN - SECOND FLOOR AREA A
P-204	PLUMBING ROOF PLAN - AREA A
P-205	PLUMBING ROOF PLAN - AREA B
P-301	PLUMBING DOMESTIC WATER PLAN - FIRST FLOOR AREA A
P-302	PLUMBING DOMESTIC WATER PLAN - FIRST FLOOR AREA B
P-304	PLUMBING DOMESTIC WATER PLAN - SECOND FLOOR AREA A
PD-101	PLUMBING DEMOLITION PLAN - FIRST FLOOR AREA A
PD-102	PLUMBING DEMOLITION PLAN - FIRST FLOOR AREA B
PD-103	PLUMBING DEMOLITION PLAN - SECOND FLOOR AREA A

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$1/32" = 1'-0"$ $1/16" = 1'-0"$ $3/32" = 1'-0"$ $1/8" = 1'-0"$ $1/4" = 1'-0"$ $3/8" = 1'-0"$ $1/2" = 1'-0"$ $3/4" = 1'-0"$ $1" = 1'-0"$ $1 \ 1/2" = 1'-0"$ $3" = 1'-0"$ $6" = 1'-0"$ $12" = 1'-0"$

MARK	DATE	BY	DESCRIPTION


5228 VALLEYPOINTE PKWY, SUITE 4
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D: 23910 C:

DATE	03/22/2024
PROJECT	23125-02
DESIGNED	DRV
DRAWN	DRV
CHECKED	DNL



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PROJECT GLEN COVE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS
ROANOKE COUNTY PUBLIC SCHOOLS
5901 COVE RD
ROANOKE, VA

DRAWING PLUMBING LEGEND, SCHEDULES, DETAILS AND NOTES

SHEET

P-001

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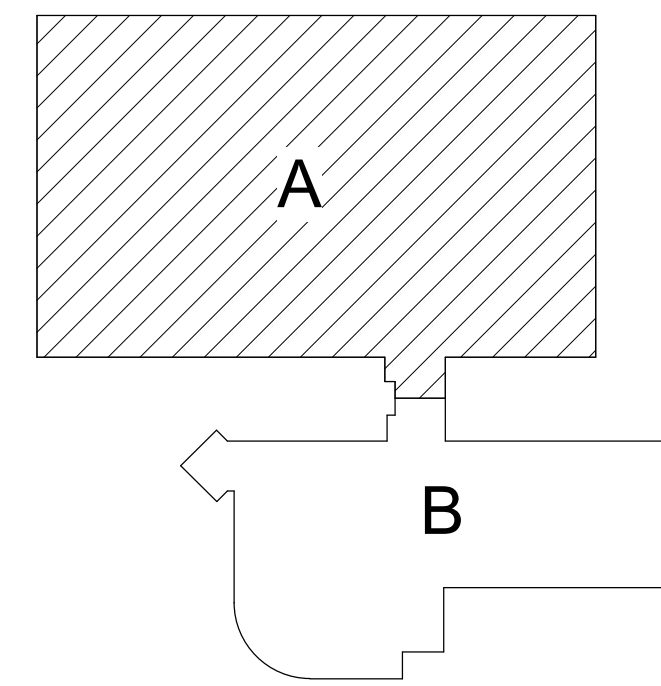
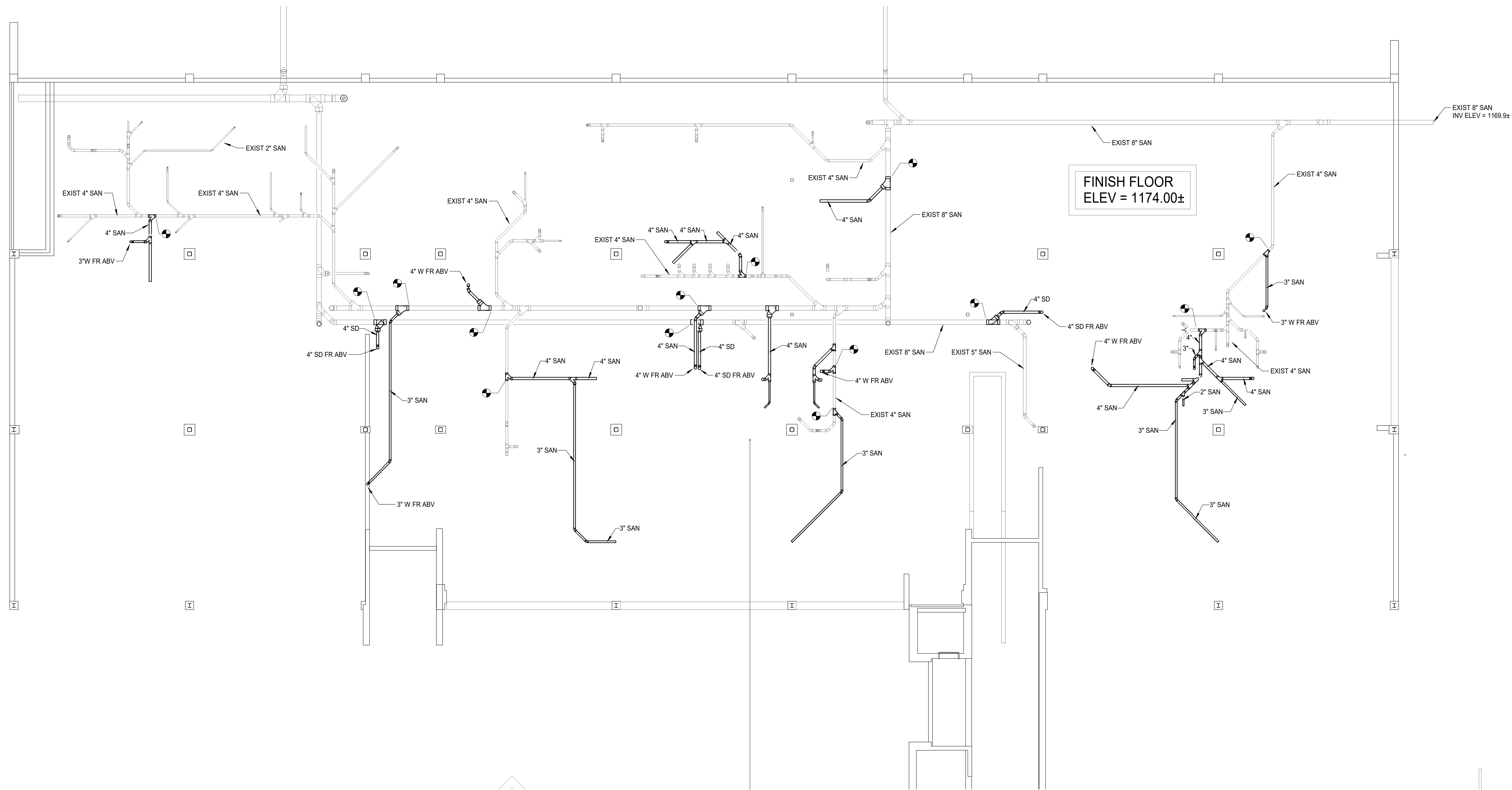
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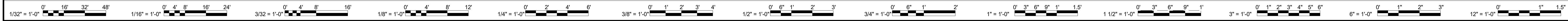


KEY PLAN AREA A
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1 PLUMBING FOUNDATION PLAN - FIRST FLOOR AREA A
P-101 SCALE: 1/8" = 1'-0"



DESCRIPTION
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PROJECT 23125-02
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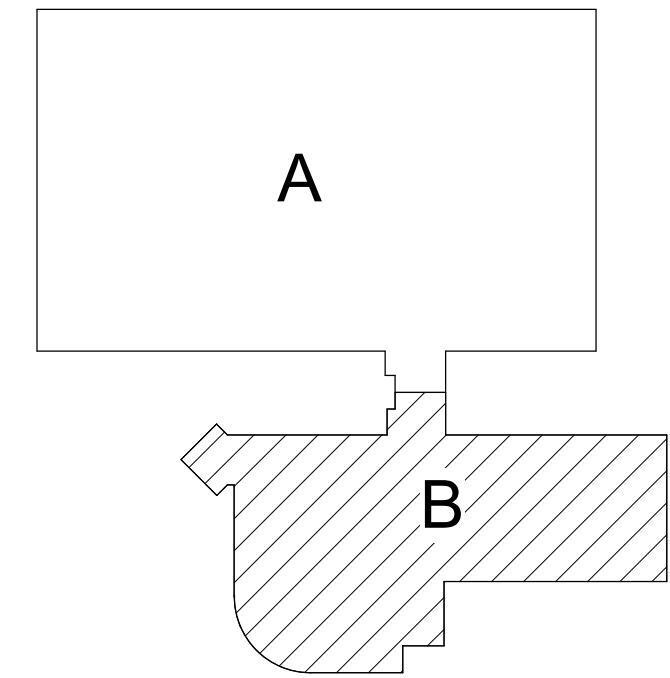
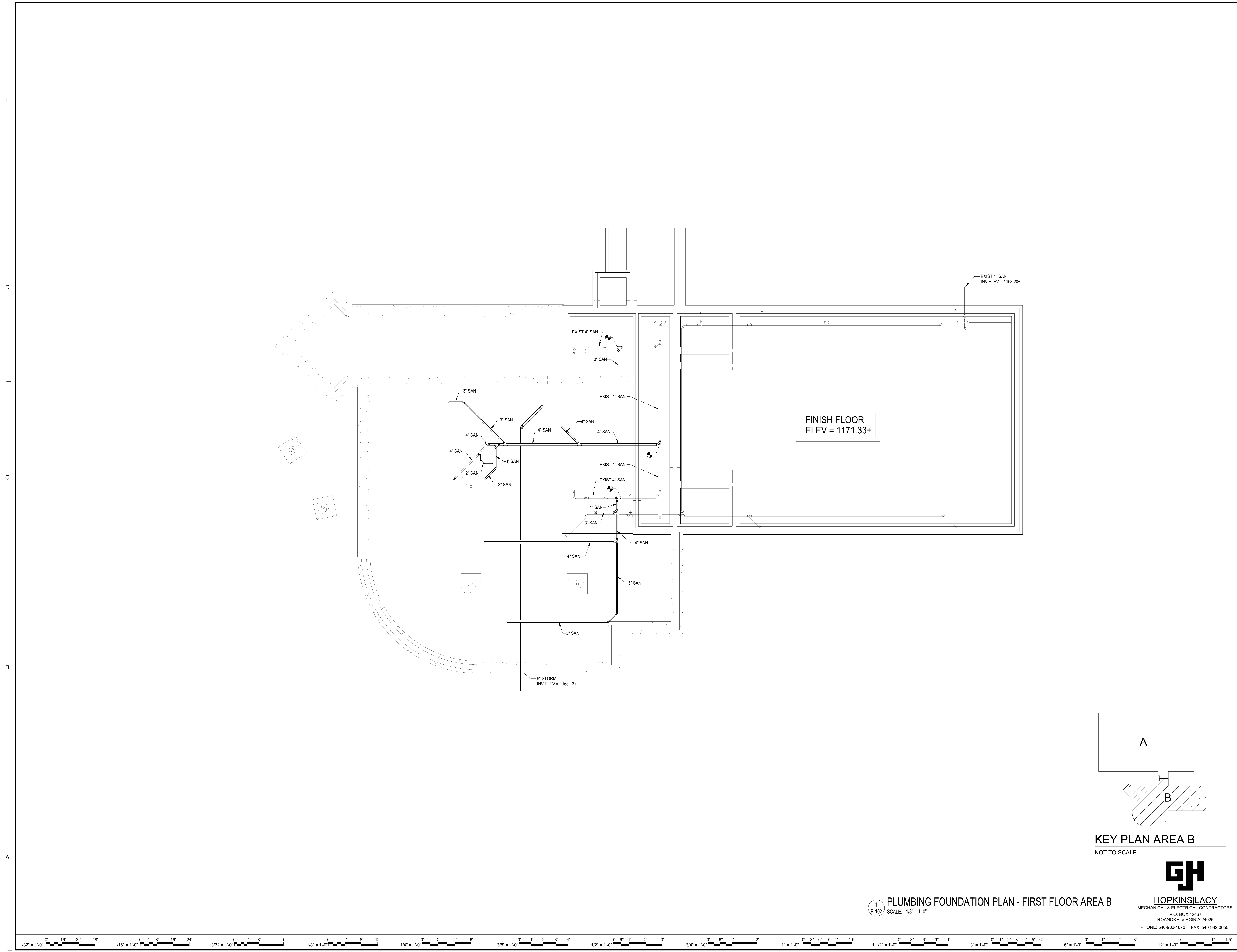
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DRAWING PLUMBING FOUNDATION PLAN - FIRST FLOOR AREA A

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P-101

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PLUMBING FOUNDATION PLAN - FIRST FLOOR AREA B
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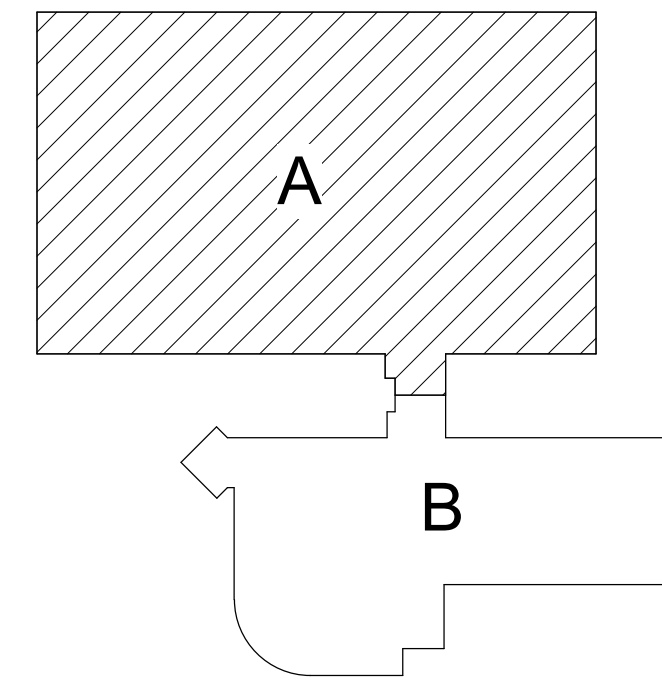
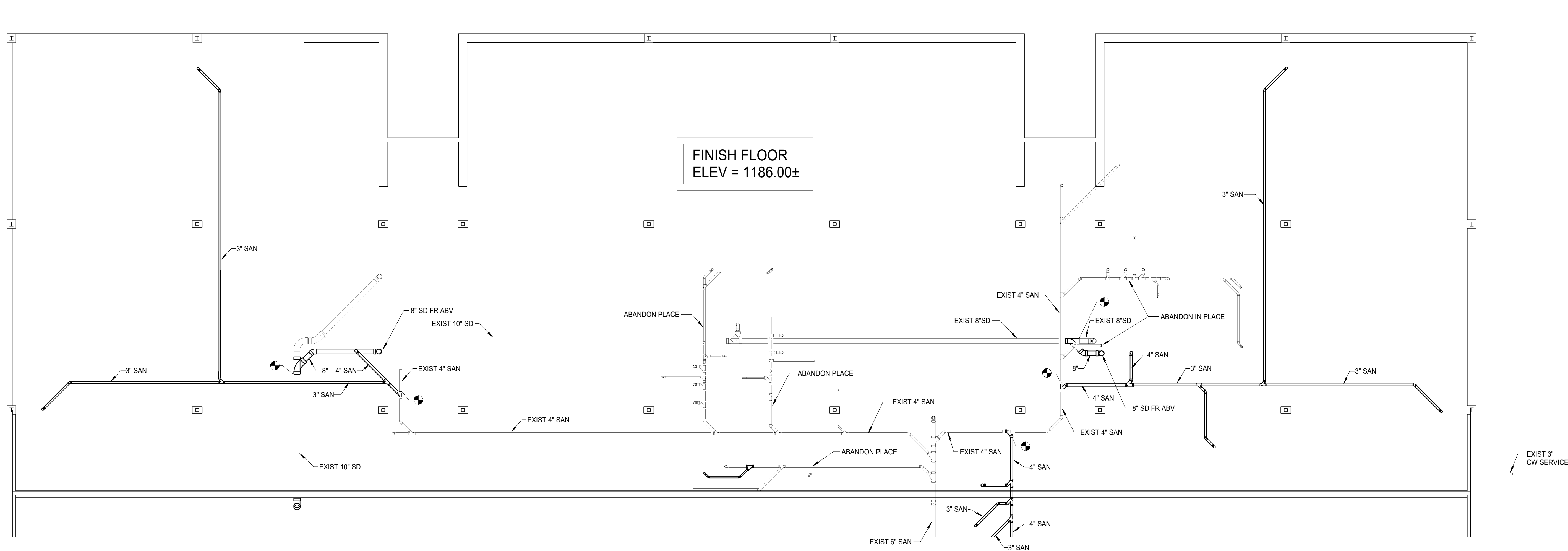
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DRAWING	PLUMBING FOUNDATION PLAN - FIRST FLOOR AREA B

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P-102

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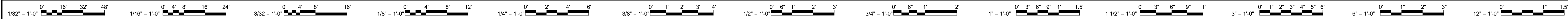


KEY PLAN AREA A
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1 PLUMBING FOUNDATION PLAN - SECOND FLOOR AREA A
P-103 SCALE: 1/8" = 1'-0"

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DRAWING PLUMBING FOUNDATION PLAN - SECOND FLOOR AREA A

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P-103



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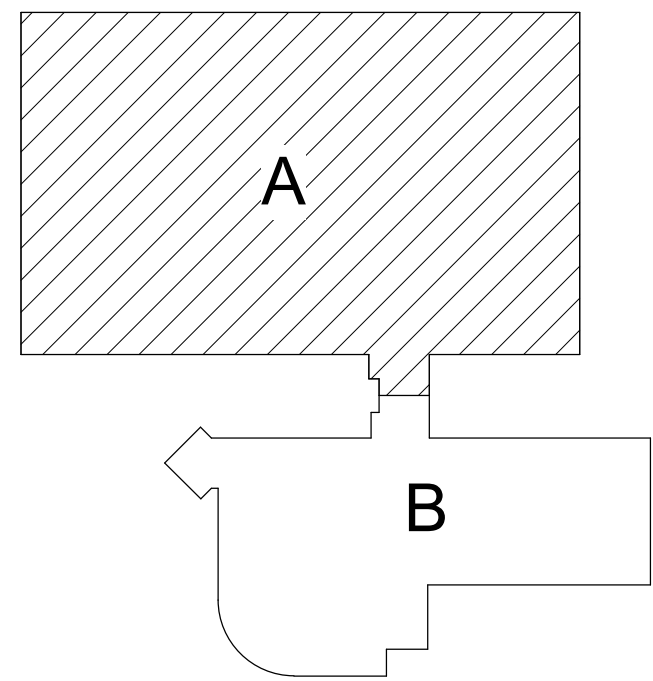
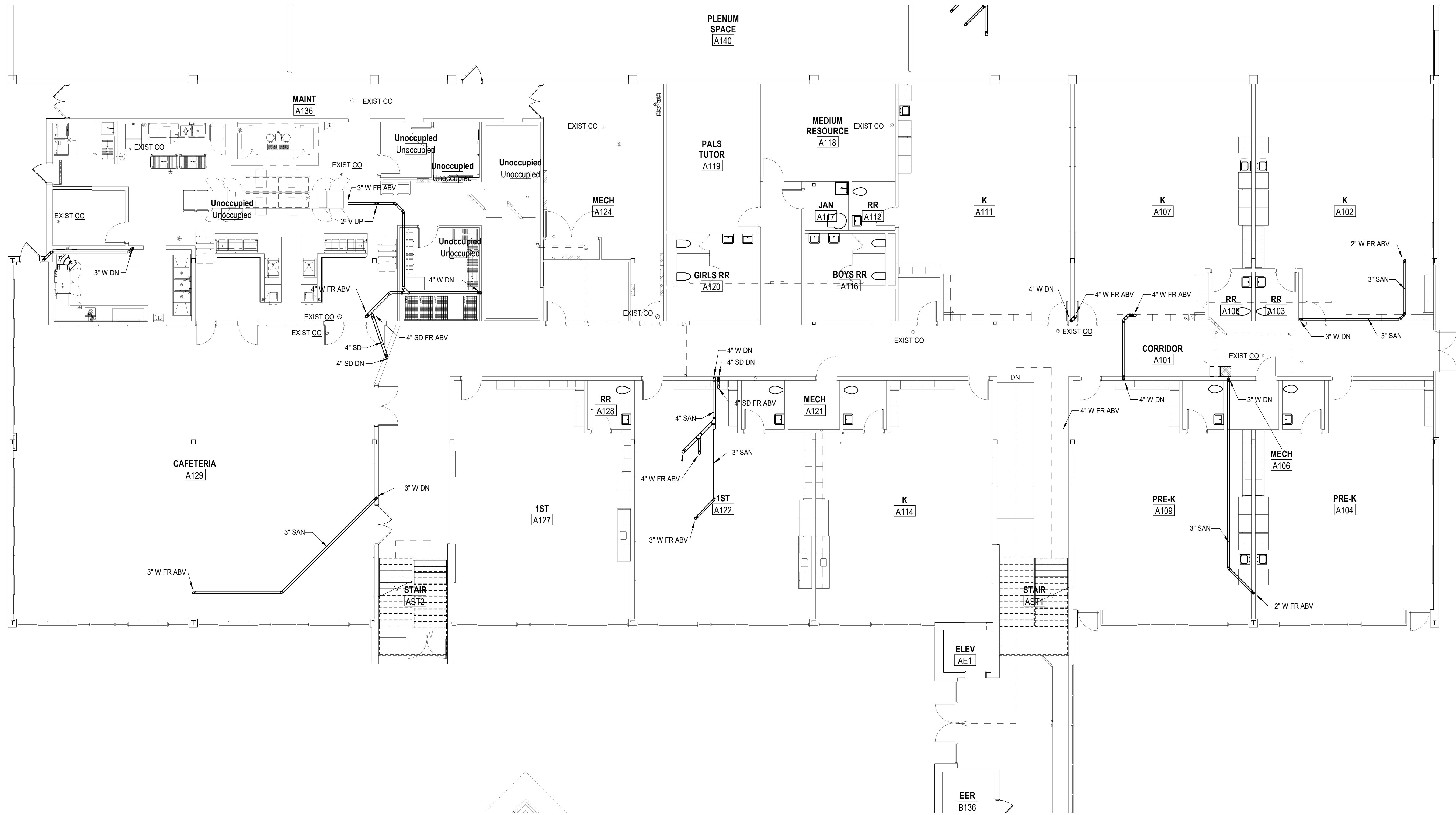
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1 PLUMBING SANITARY PLAN - FIRST FLOOR AREA A
P-201 SCALE: 1/8" = 1'-0"



DESCRIPTION	
BY	
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DATE	PROJECT	DESIGNED	DRY	DNL
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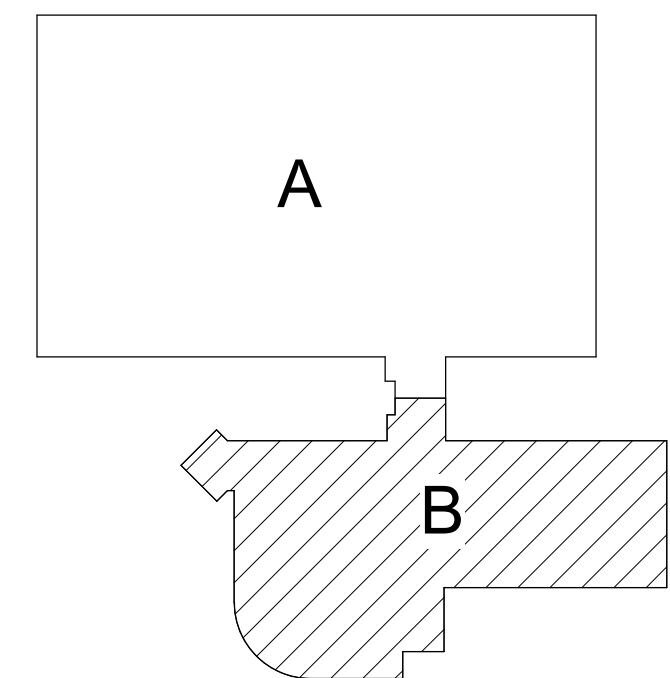
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ROANOKE COUNTY PUBLIC SCHOOLS
5901 COVE RD
ROANOKE, VA

DRAWING PLUMBING SANITARY PLAN - FIRST FLOOR AREA A

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P-201

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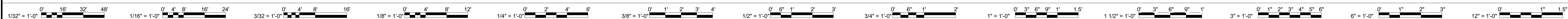


KEY PLAN AREA B
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1 PLUMBING SANITARY PLAN - FIRST FLOOR AREA B
P-202 SCALE: 1/8" = 1'-0"



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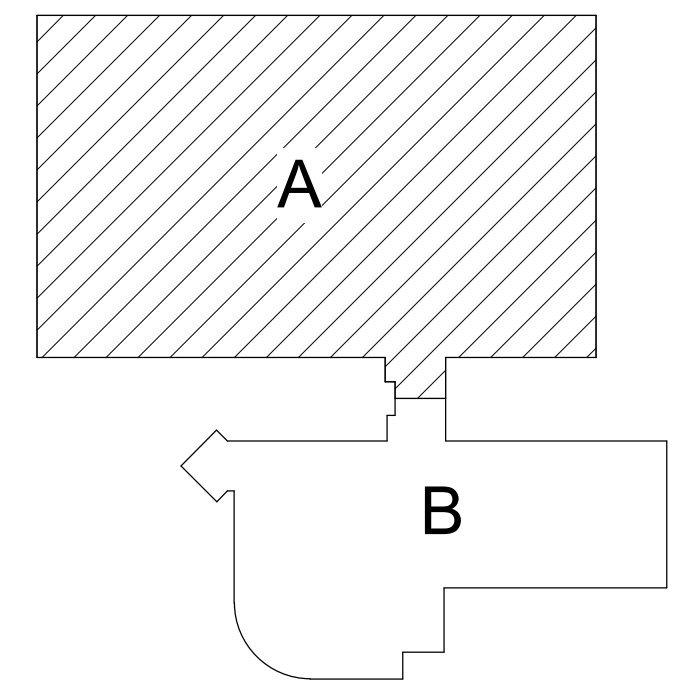
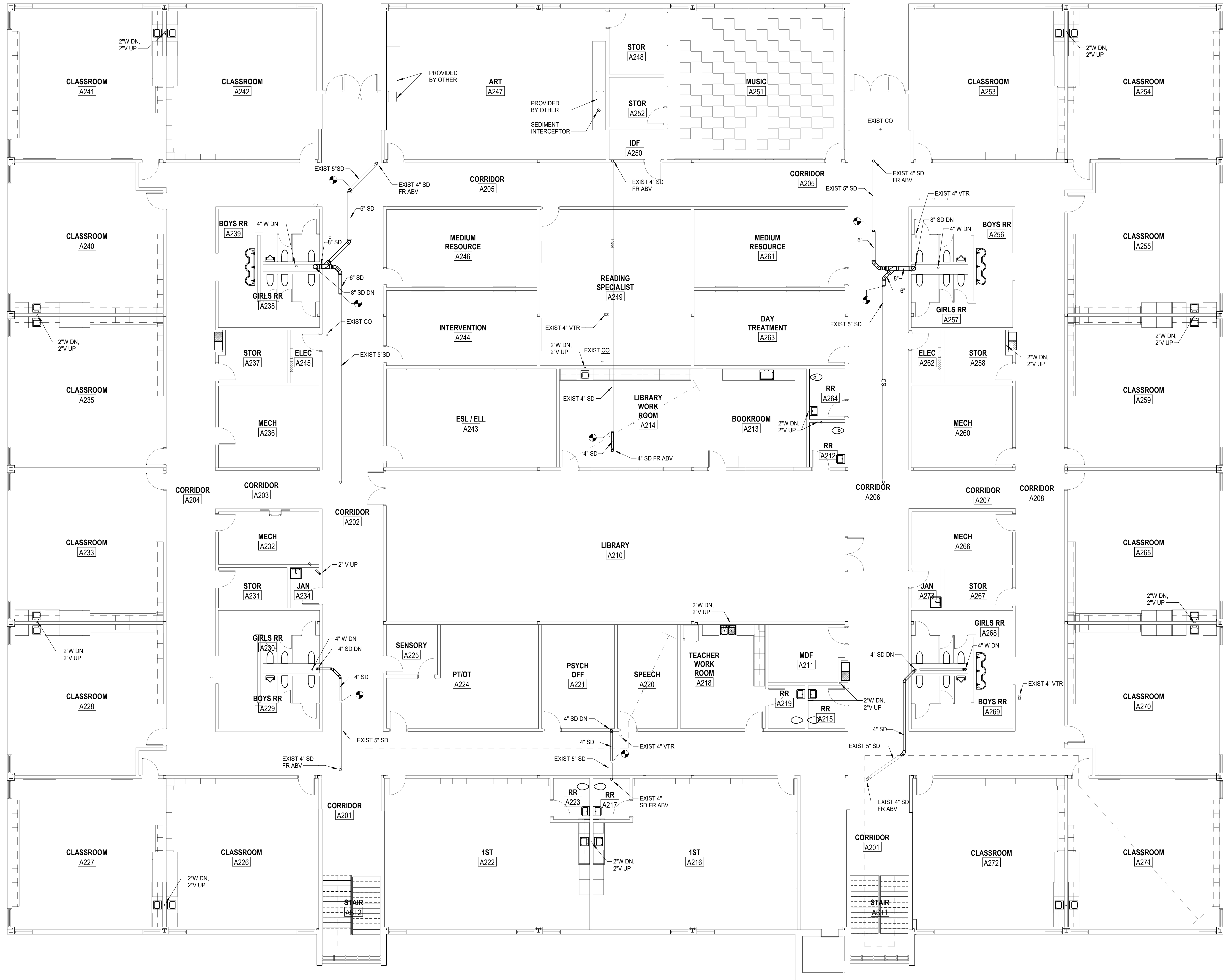
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DRAWING PLUMBING SANITARY PLAN - FIRST FLOOR AREA B

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P-202

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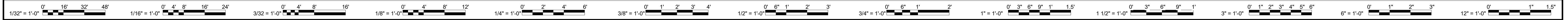


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1 PLUMBING SANITARY PLAN - SECOND FLOOR AREA A
P-203 SCALE: 1/8" = 1'-0"

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PHONE: 540-982-1873 FAX: 540-982-0655



DESCRIPTION	
BY	DATE
REVISIONS	

5228 VALLEYFLORENCE PKWY, SUITE 4
ROANOKE, VIRGINIA 24019
(540) 265-4444
D: 23910 C:

DATE	PROJECT	DESIGNED	DRY	DNL
03/22/2024	23125-02			

28 Church Ave SW
Roanoke, Virginia 24011
(540)344-1212

PROJECT GLEN COVE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS
ROANOKE COUNTY PUBLIC SCHOOLS
5901 COVE RD
ROANOKE, VA

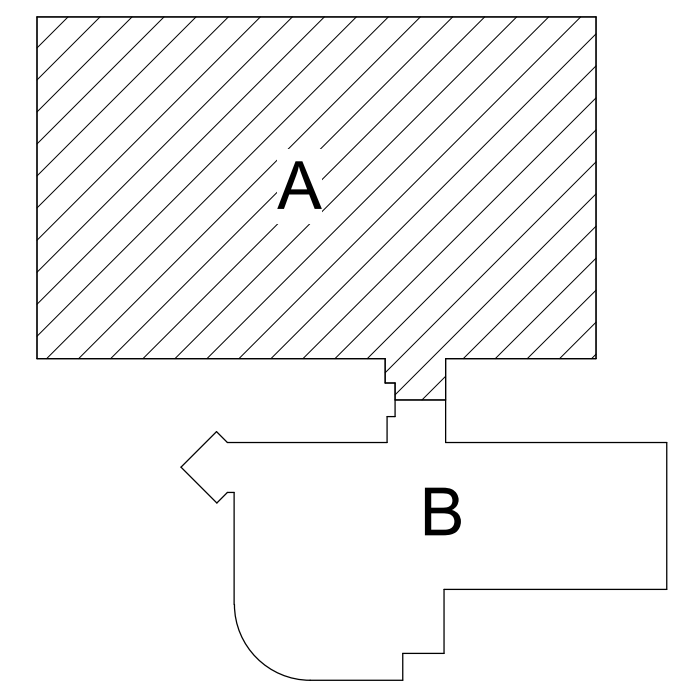
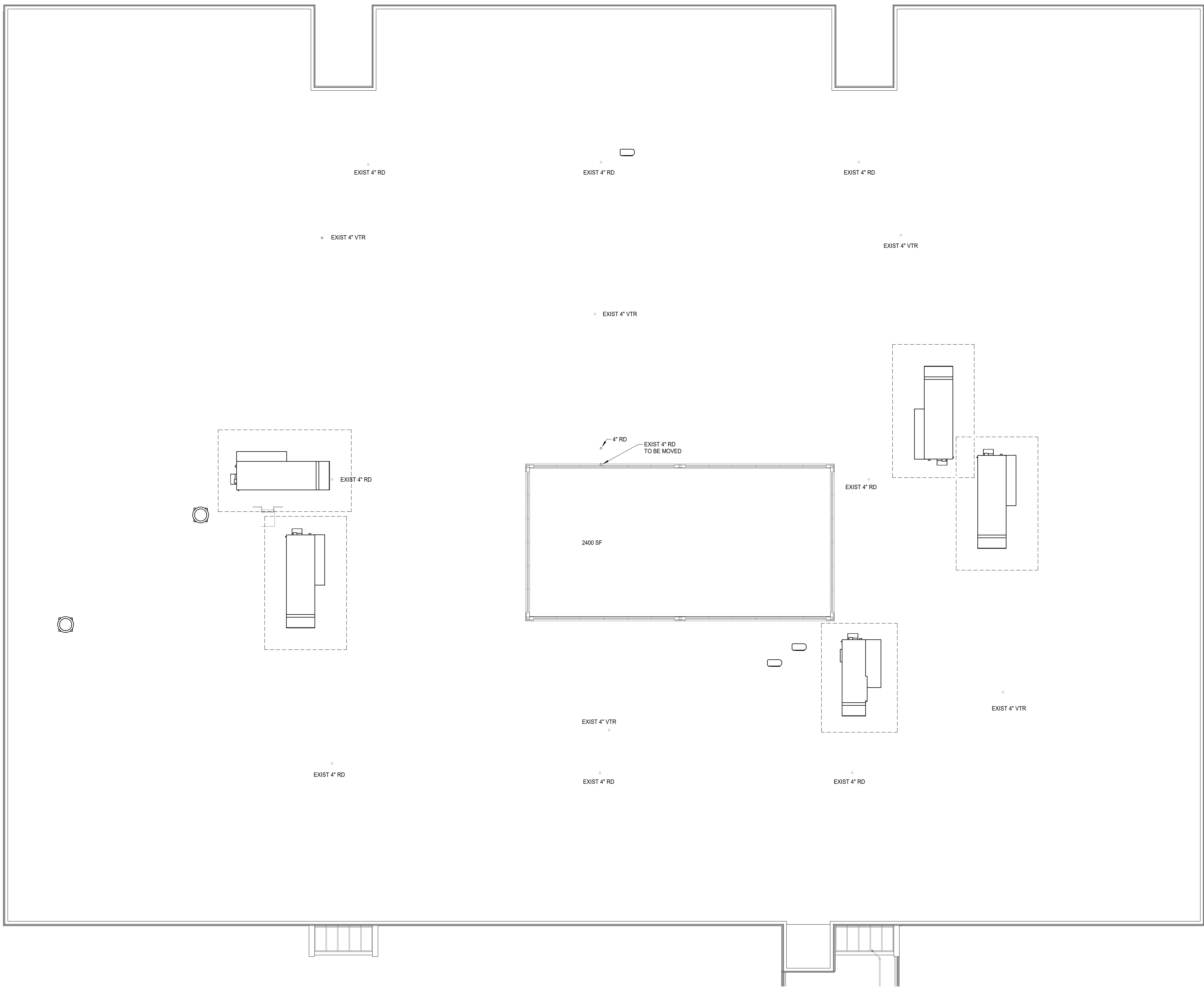
DRAWING PLUMBING SANITARY PLAN - SECOND FLOOR AREA A

SHEET
P-203

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A
B
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1 2 3 4 5 6



KEY PLAN AREA A
NOT TO SCALE



HOPKINS LACY
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PLUMBING ROOF PLAN AREA A
SCALE: 1/8" = 1'-0"



REVISIONS	
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BY	DESCRIPTION

ASCENT
ENGINEERING GROUP
5228 VALLEYFONTE PKWY, SUITE 4
ROANOKE, VIRGINIA 24019
(540) 265-4444
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03/22/2024
DATE
PROJECT
DESIGNED
DRAWN
CHECKED
DRV
DRV
DNL

RRMM
ARCHITECTS, PC
28 Church Ave SW
Roanoke, Virginia 24011
(540) 344-1212

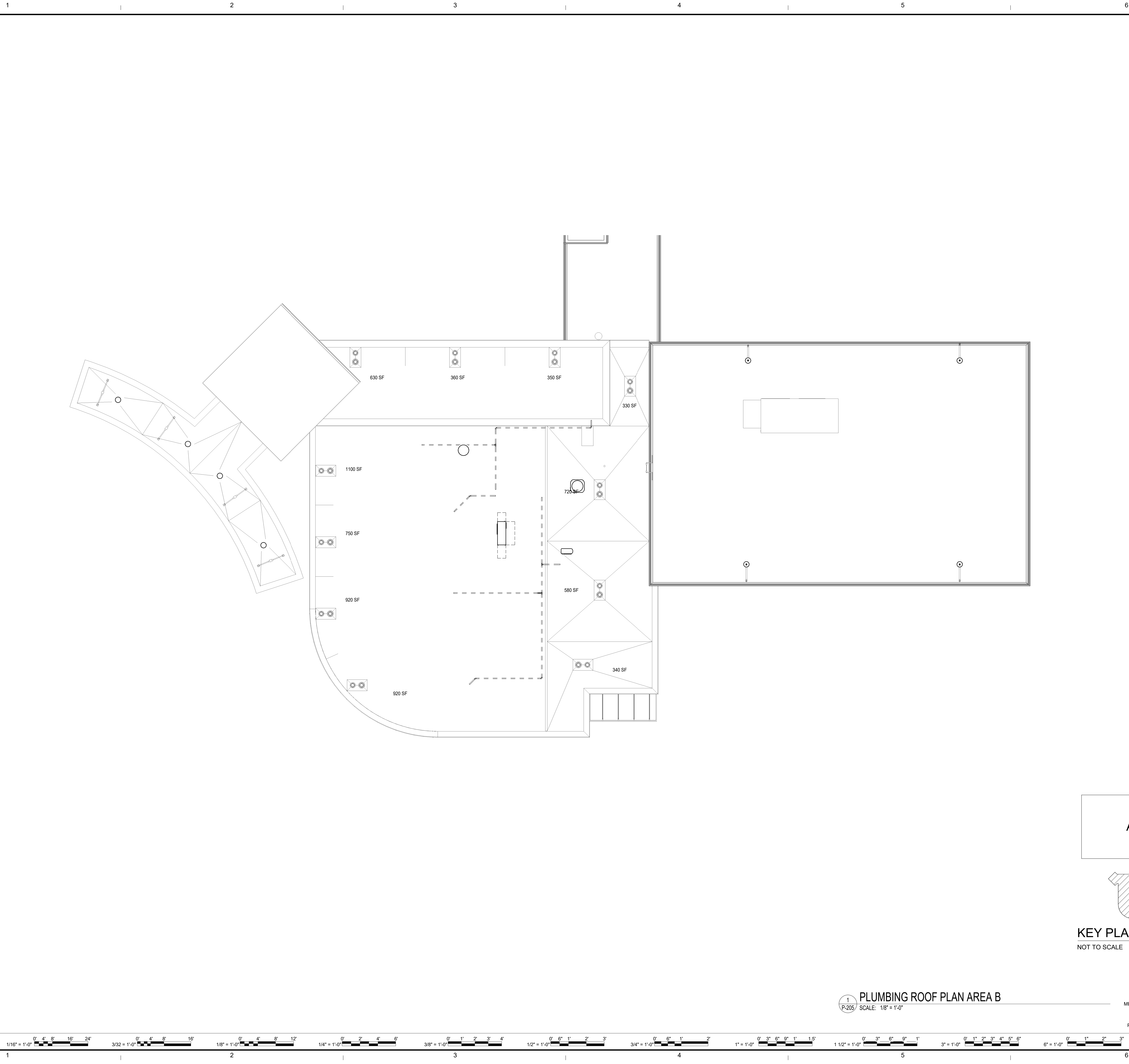
NOT FOR CONSTRUCTION

PROJECT
DRAWING
GLEN COVE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS
ROANOKE COUNTY PUBLIC SCHOOLS
5901 COVE RD
ROANOKE, VA
PLUMBING ROOF PLAN - AREA A

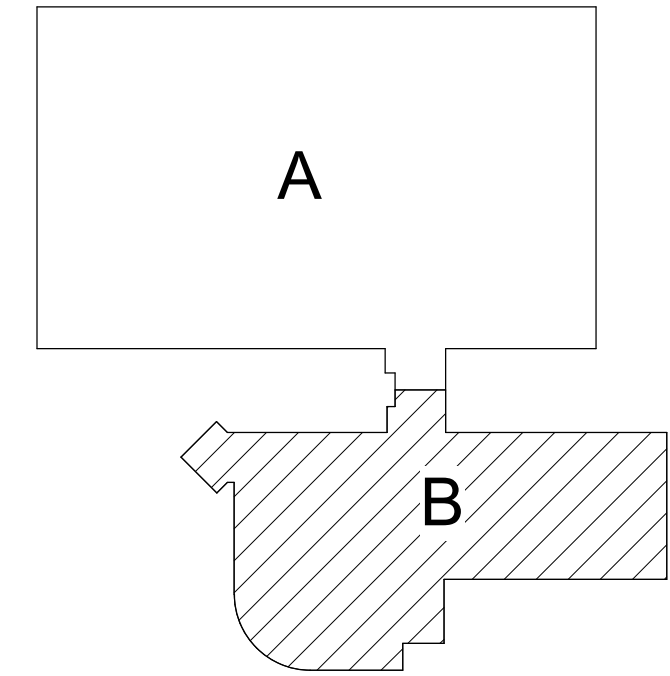
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P-204

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1
P-205
PLUMBING ROOF PLAN AREA B
SCALE: 1/8" = 1'-0"



KEY PLAN AREA B
NOT TO SCALE



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PROJECT GLEN COVE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS
ROANOKE COUNTY PUBLIC SCHOOLS
5901 COVE RD
ROANOKE, VA

DRAWING PLUMBING ROOF PLAN - AREA B

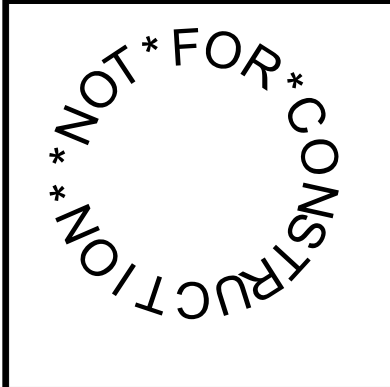
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P-205

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ENGINEERING GROUP
5228 VALLEYFONTE PKWY, SUITE 4
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(540) 265-4444
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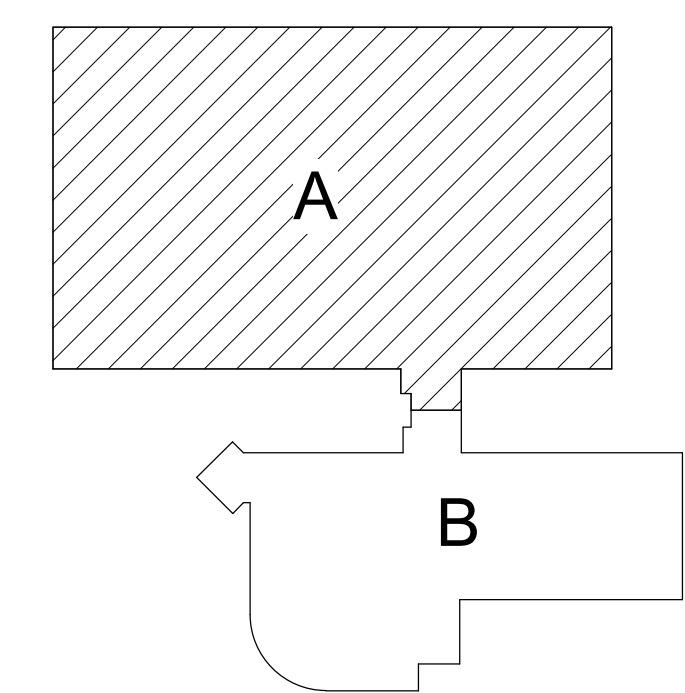
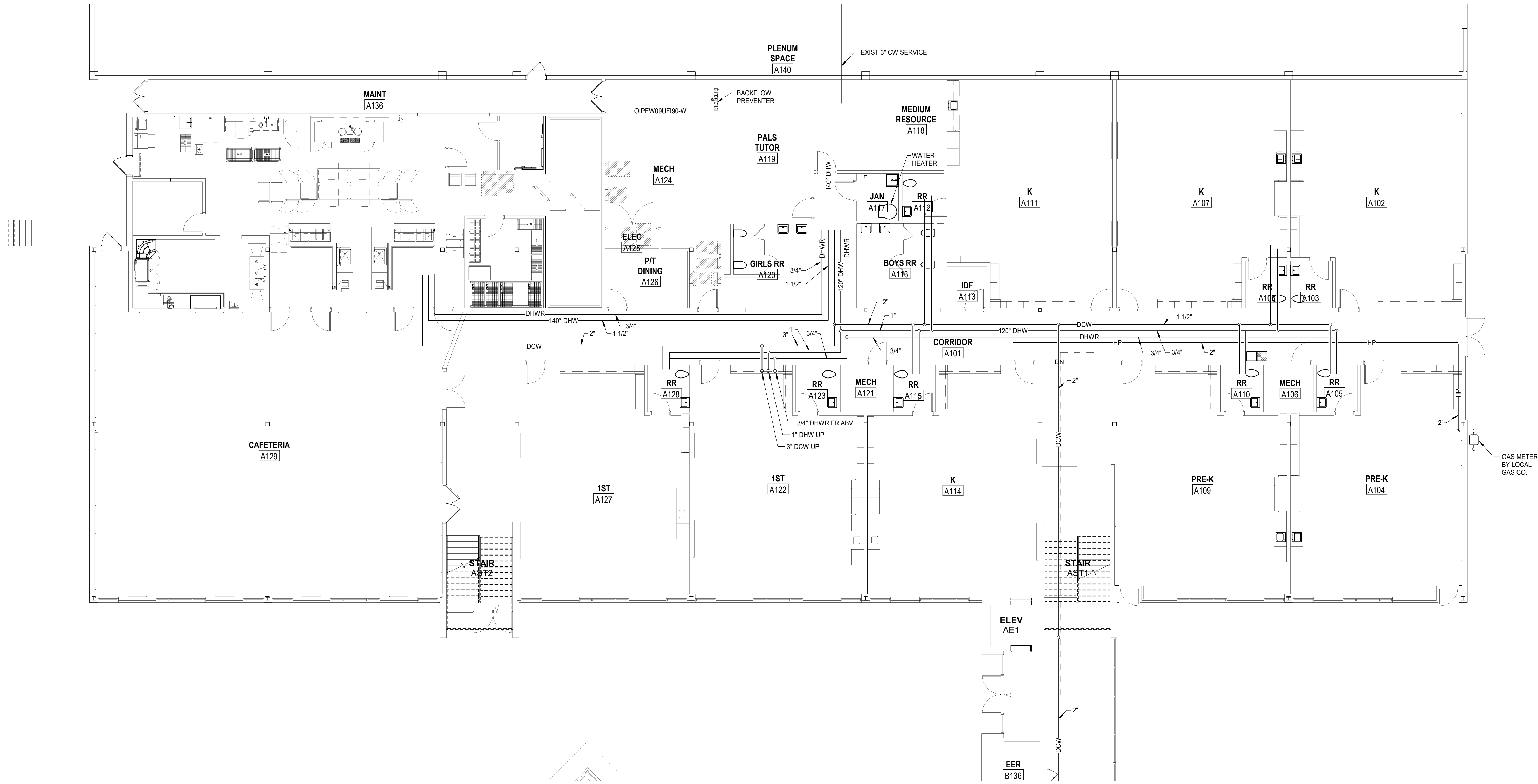
DATE	PROJECT	DESIGNED	DRV	DRV	DNL
03/22/2024	23125-02	23125-02	DRV	DRV	DNL

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KEY PLAN AREA A
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1 PLUMBING DOMESTIC WATER PLAN - FIRST FLOOR AREA A
SCALE: 1/8" = 1'-0"

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PROJECT GLEN COVE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS
ROANOKE COUNTY PUBLIC SCHOOLS
5901 COVE RD
ROANOKE, VA
DRAWING PLUMBING DOMESTIC WATER PLAN - FIRST FLOOR AREA A

SHEET
P-301

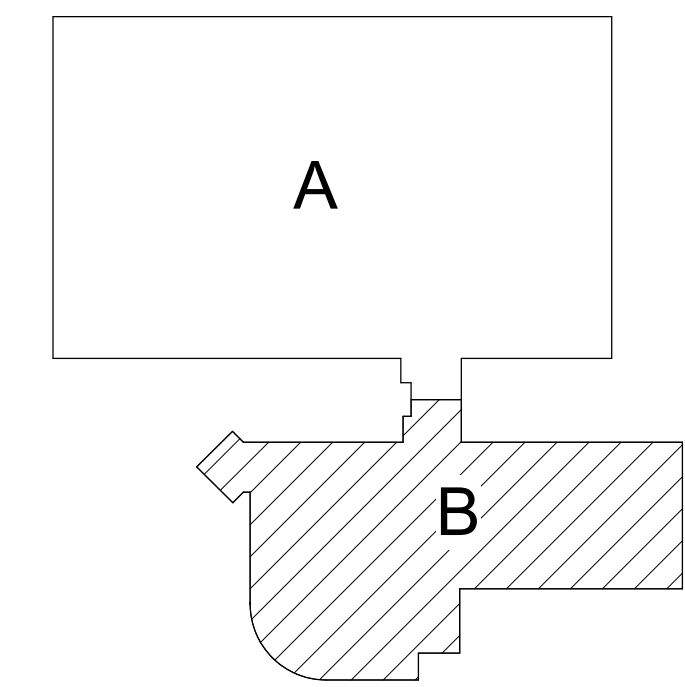
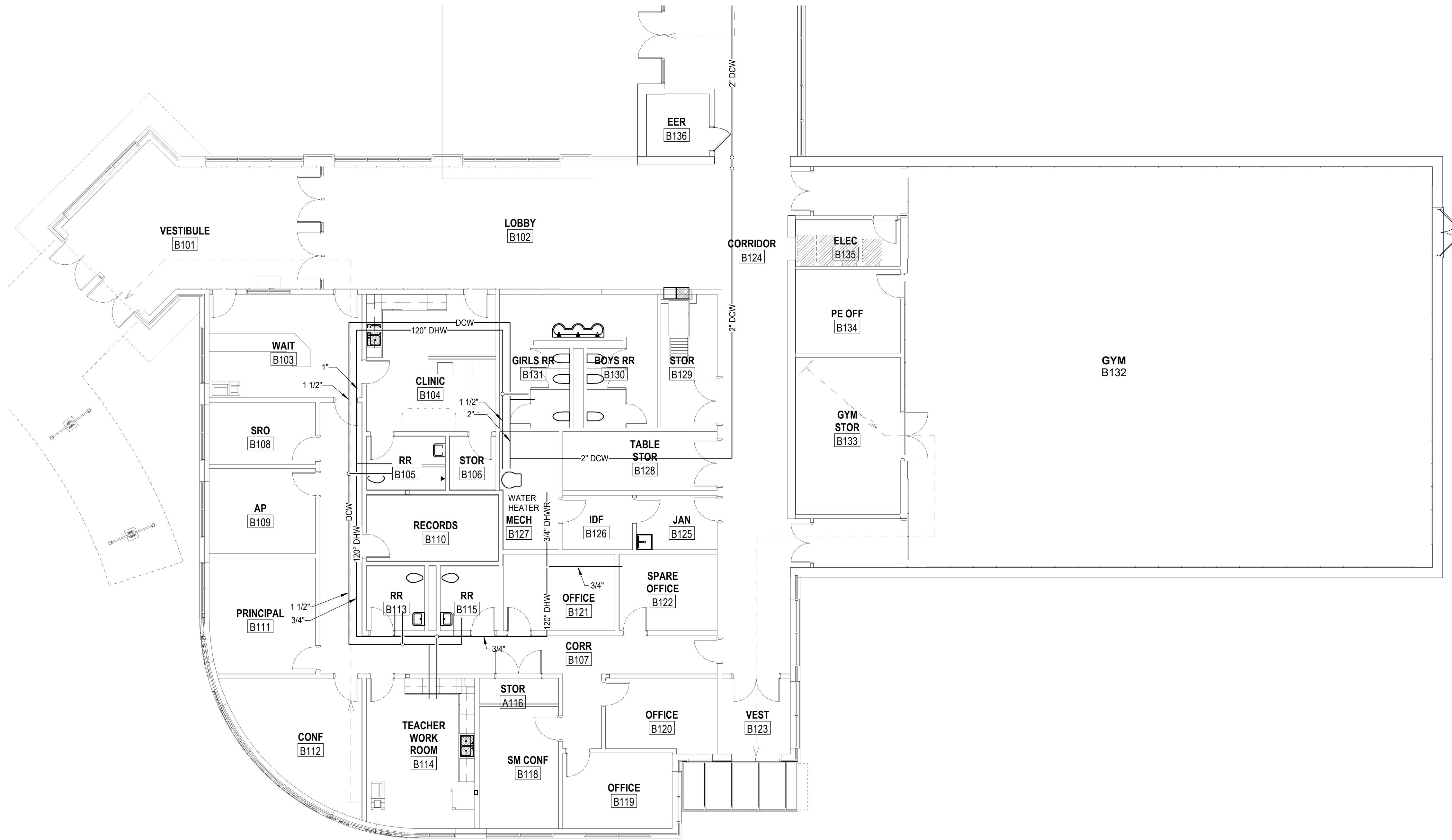
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ARCHITECTS, PC
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DATE	PROJECT	DESIGNED	DRY	DRY	DNL
03/22/2024	23125-02	DRY	DRY	DRY	DNL

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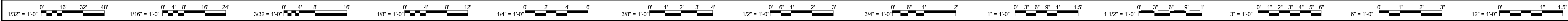


KEY PLAN AREA B
NOT TO SCALE



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PHONE: 540-982-1873 FAX: 540-982-0655

PLUMBING DOMESTIC WATER PLAN - FIRST FLOOR AREA B
SCALE: 1/8" = 1'-0"

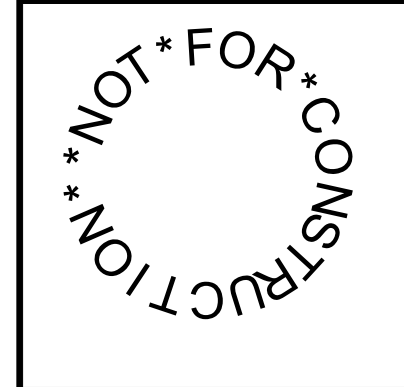


MARK	DATE	BY	DESCRIPTION

ASCENT
ENGINEERING GROUP
5228 VALLEYFONTE PKWY, SUITE 4
ROANOKE, VIRGINIA 24019
(540) 255-4444
D: 23910 C:

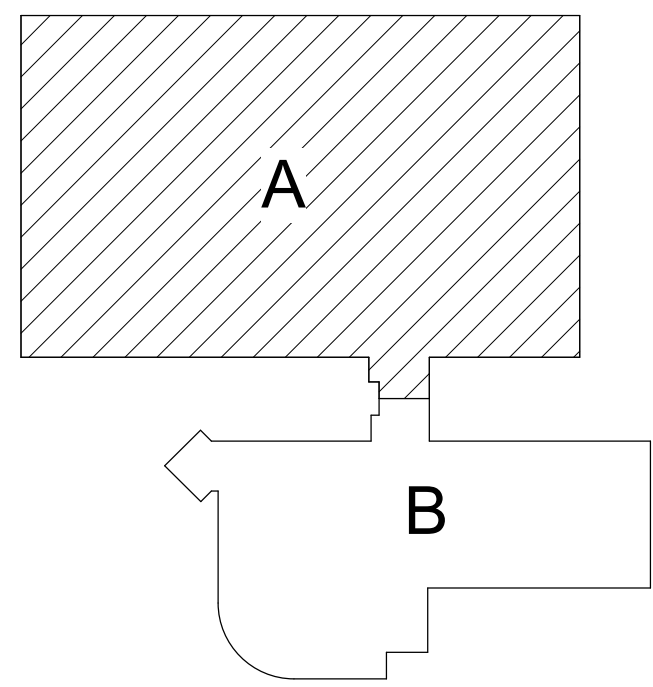
DATE	PROJECT	DESIGNED	DRY	DRY	DNL
03/22/2024	23125-02				

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PROJECT GLEN COVE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS
ROANOKE COUNTY PUBLIC SCHOOLS
5901 COVE RD
ROANOKE, VA
DRAWING PLUMBING DOMESTIC WATER PLAN - FIRST FLOOR AREA B

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SHEET

P-304

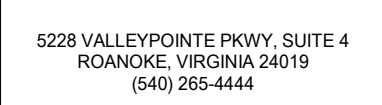
DATE	03/22/2024
PROJECT	23125-02
DESIGNED	DRV
DRAWN	DRV
CHECKED	DNL



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PROJECT
GLEN COVE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS
ROANOKE COUNTY PUBLIC SCHOOLS
5901 COVE RD
ROANOKE, VA

DRAWING
PLUMBING DOMESTIC WATER PLAN - SECOND FLOOR
AREA A

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