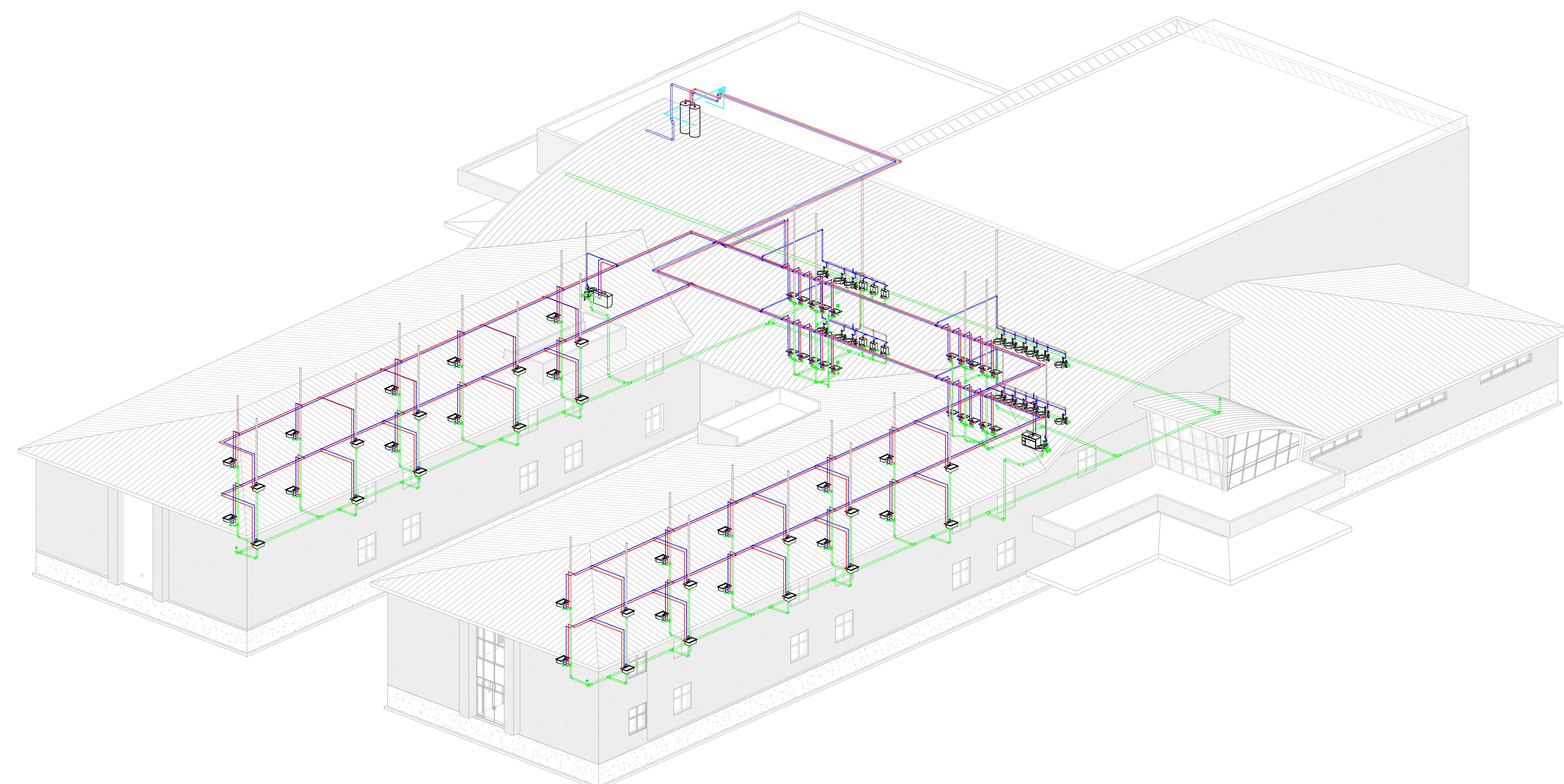


SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
	POC	POINT OF CONNECTION WASTE OR SEWER BELOW SLAB		ABV	ABOVE
	PW	PUMPED SANITARY WASTE WASTE OR SEWER ABOVE SLAB		A/C	ABOVE CEILING
				A.F.F.	ABOVE FINISH FLOOR
				A.F.G.	ABOVE FINISH GRADE
	V	SANITARY VENT		A/G	ABOVE GRADE
	CW	COLD WATER		A.P.	ACCESS PANEL
	HW	HOT WATER		B/F	BELOW FLOOR
	HWR	HOT WATER RETURN		B/G	BELOW GRADE
	G	LOW PRESSURE NATURAL GAS		CFH	CUBIC FEET PER HOUR
	MPG	MEDIUM PRESSURE NATURAL GAS		DWGS.	DRAWINGS
	FD	FOUNDATION DRAIN		EA.	EACH
	PD	PUMPED FOUNDATION DRAIN		EXIST.	EXISTING
	SD	STORM DRAIN		(E)	EXISTING
	GV	GATE VALVE		FT.	FEET OR FOOT
	BV	BALL VALVE		FDC	FIRE DEPARTMENT CONNECTION
	PRV	PRESSURE REDUCING VALVE		F	FIRE RISER
	FS	FLOOR SINK		FLR.	FLOOR
	FD	FLOOR DRAIN		G.P.F.	GALLONS PER FLUSH
	FCO	FLOOR CLEAN-OUT		G.P.H.	GALLONS PER HOUR
	WCO	WALL CLEAN-OUT		G.P.M.	GALLONS PER MINUTE
	GCO	GRADE CLEAN-OUT		I.E.	INVERT ELEVATION
	DN	DOWN OR DROP		KG	KILOGRAMS
	UP	RISE OR RISER		kPq	KILOPASCALS
	HB	HOSE BIBB		L.P.F.	LITERS PER FLUSH
		VALVE ON RISE OR DROP		L/S	LITERS PER SECOND
	U	UNION		MSA	MEDIUM PRESSURE GAS METER
	RV	TEMPERATURE & PRESSURE RELIEF VALVE		mm	MILLIMETER
	F	FIRE SPRINKLER PIPING		NTS	NOT TO SCALE
	CD	CONDENSATE DRAIN PIPING		ORD	OVERFLOW ROOF DRAIN
	FDC	FIRE DEPARTMENT CONNECTION		LB	POUNDS
	CP	CIRCULATING PUMP		PSI	POUNDS PER SQUARE INCH
	CV	CHECK VALVE		RD	ROOF DRAIN
	TP	TRAP PRIMER		SET ASSEMBLY	SET ASSEMBLY
	WHA	WATER HAMMER ARRESTOR		SF	SQUARE FEET
	REG	GAS REGULATOR W/SHUT-OFF VALVE		T.D.H.	TOTAL DEVELOPED HEAD
				V.T.R.	VENT THROUGH ROOF
				W.C.	WATER COLUMN
				WHA	WATER HAMMER ARRESTOR



1 TITLE SHEET IMAGE

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BIM 322 - FINAL

PLUMBING TITLE SHEET

Project Number	Project Number
Date	Issue Date
Drawn By	Author
Checked By	Checker
P-001	
Scale	12" = 1'-0"

P-001

12" = 1'-0"

2/7/2025 3:23:05 AM

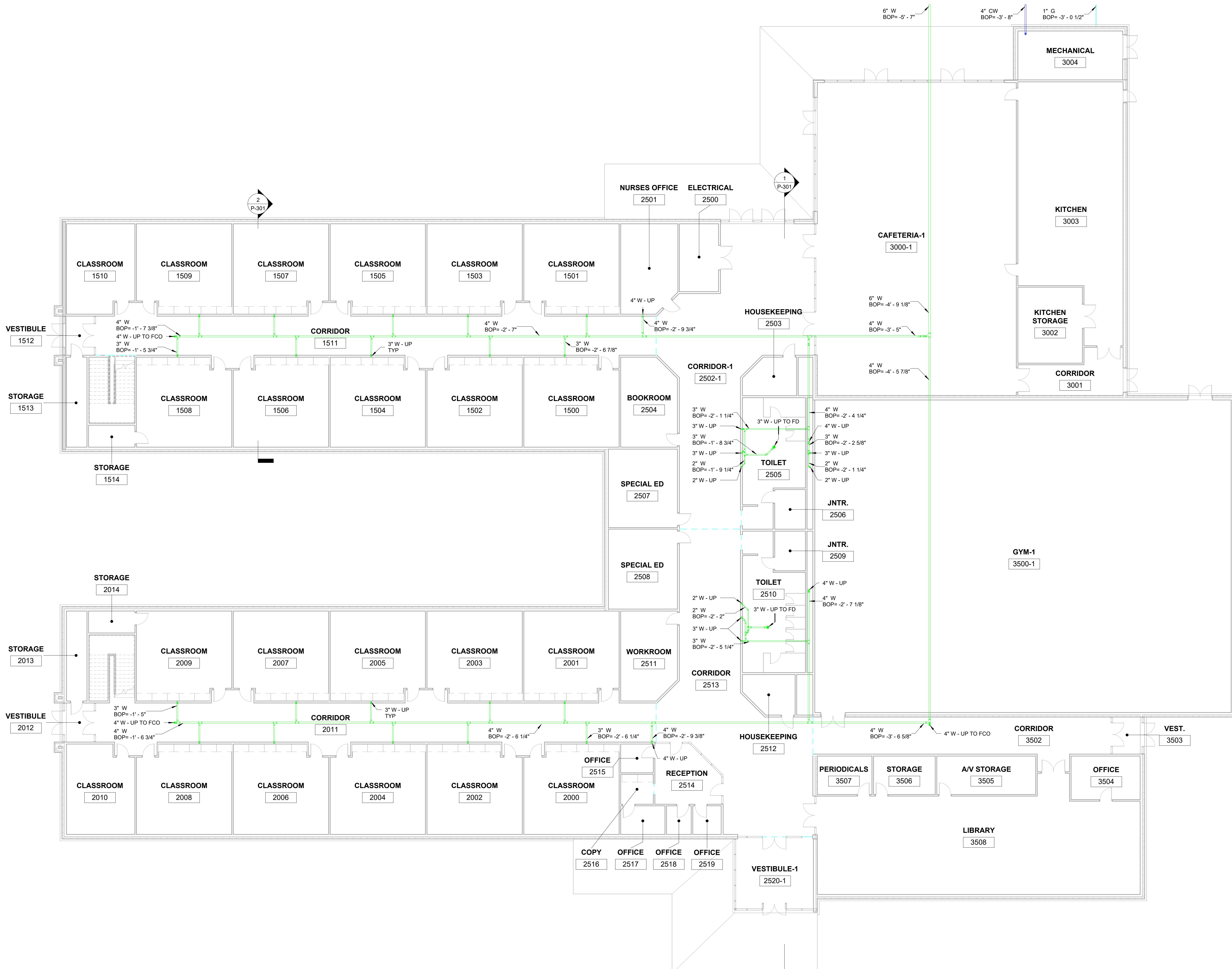
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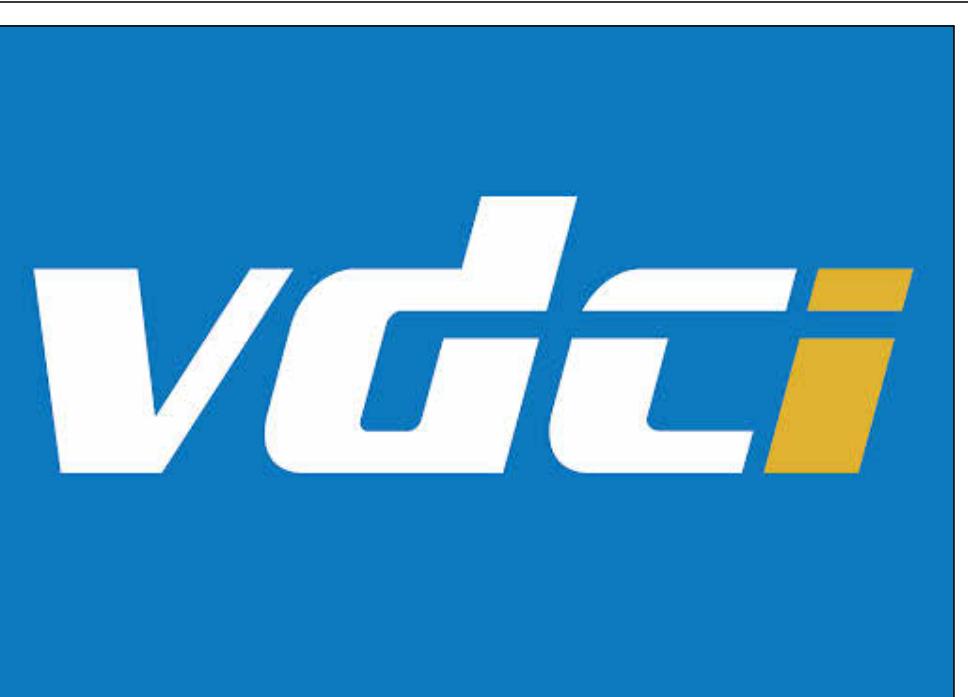
BIM 322 - FINAL

BELOW SLAB PLUMBING

Project Number	Project Number
Date	Issue Date
Drawn By	Author
Checked By	Checker
P-101	
Scale	3/32" = 1'-0"



1 Level 1 - BELOW SLAB PLUMBING
3/32" = 1'-0"



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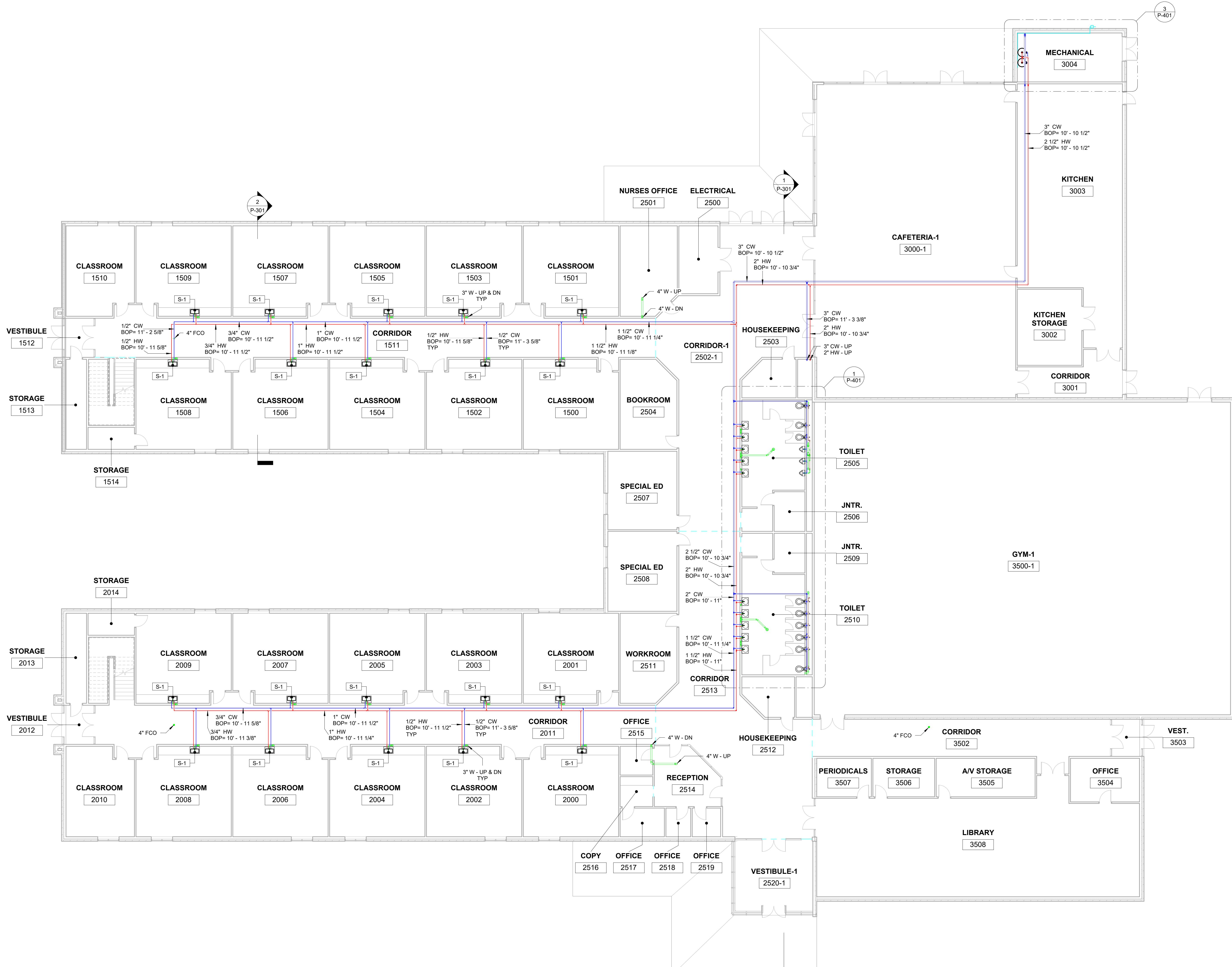
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LEVEL 1 PLUMBING

Project Number	P-102
Issue Date	3/32" = 1'-0"
Author	
Checker	



1 LEVEL 1 PLUMBING
3/32" = 1'-0"

$$3/32" = 1'-0"$$

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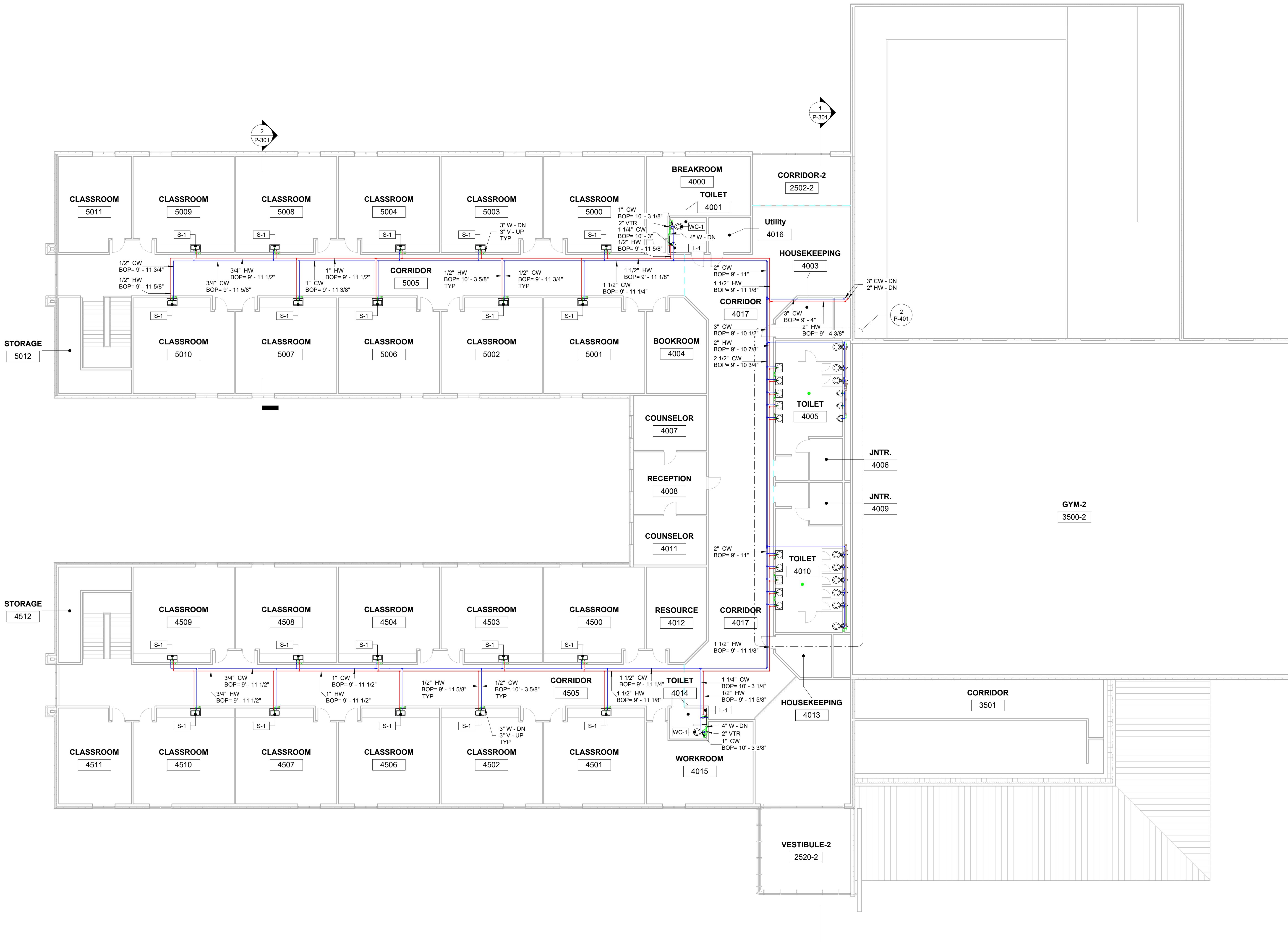
LEVEL 2 PLUMBING

Project Number	Project Number
Date	Issue Date
Drawn By	Author
Checked By	Checker
P-103	
Scale	3/32" = 1'-0"

P-103

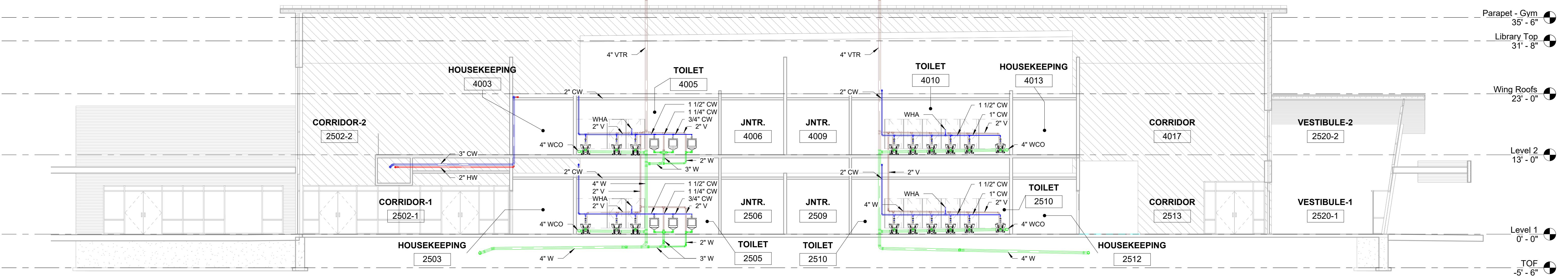
/32" = 1'-0"

1 LEVEL 2 PLUMBING
3/32" = 1'-0"

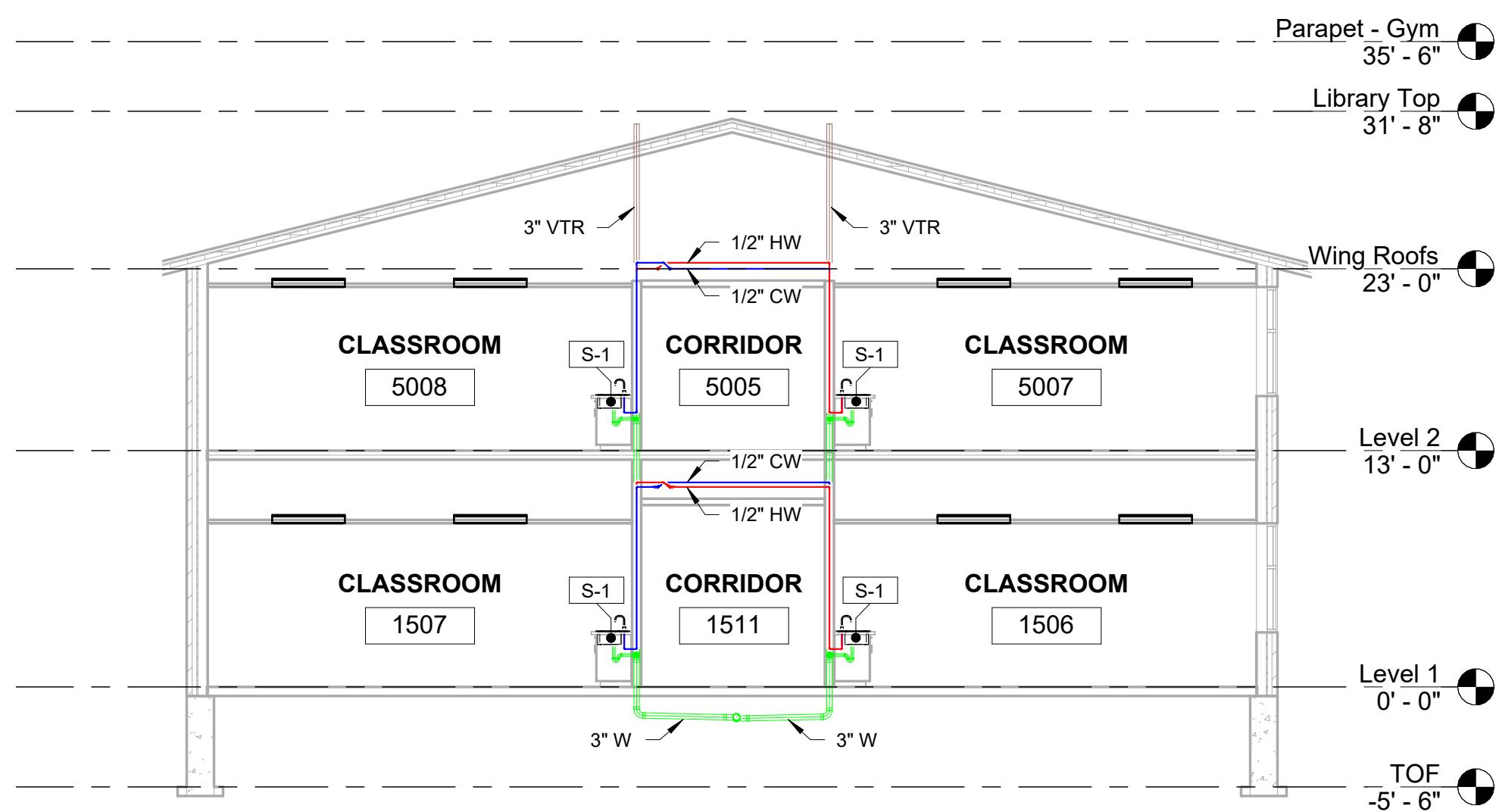




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1 WATER CLOSET PLUMBI(NG
1/8" = 1'-0"



2 TYPICAL CLASSROOM PLUMBING

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BIM 322 - FINAL

PLUMBING SECTIONS

Project Number	Project Number
Date	Issue Date
Drawn By	Author
Checked By	Checker
P-301	
Scale	1/8" = 1'-0"

P-301

$$1/8" = 1'-0"$$

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No.	Description	Date
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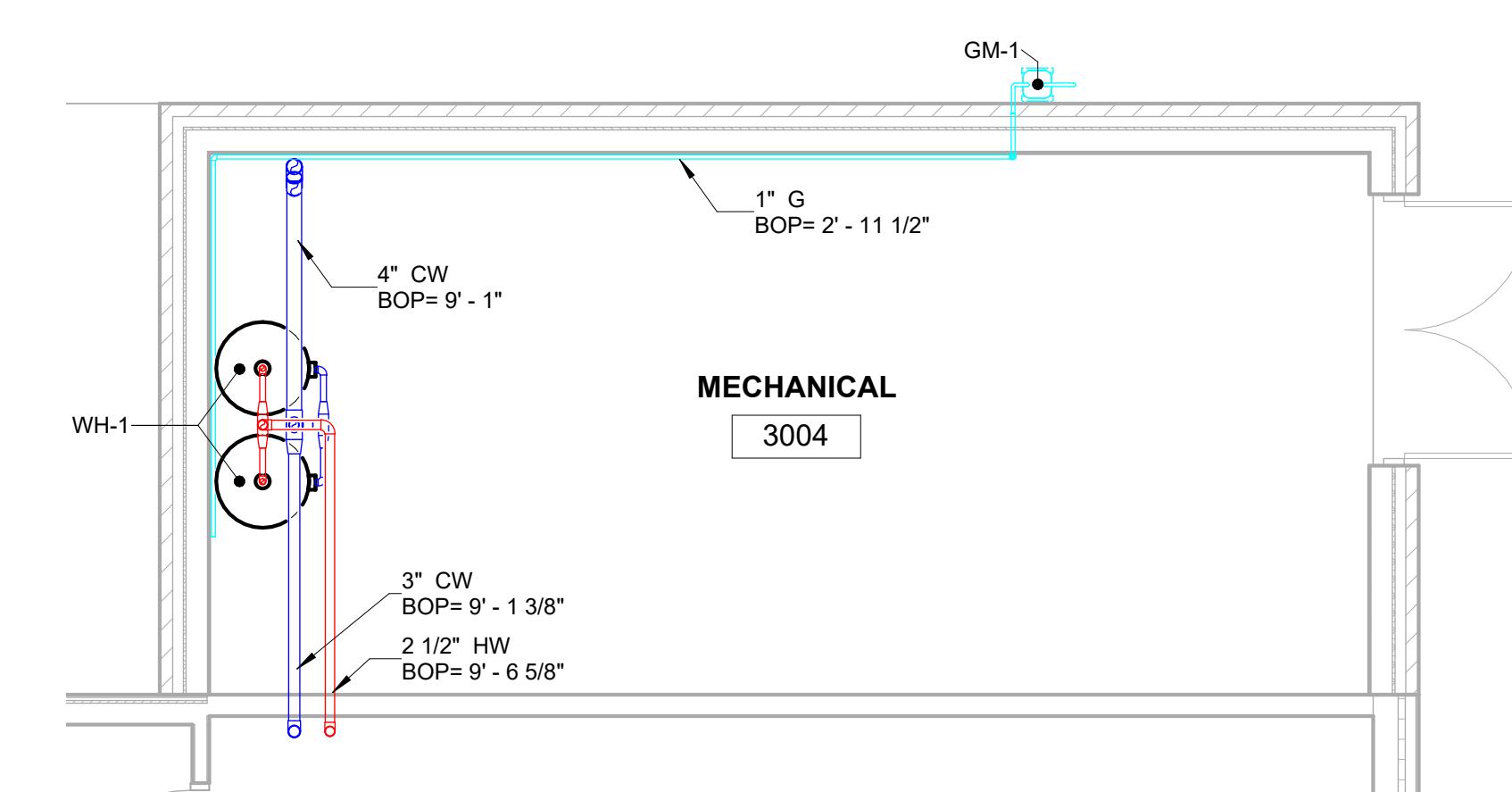
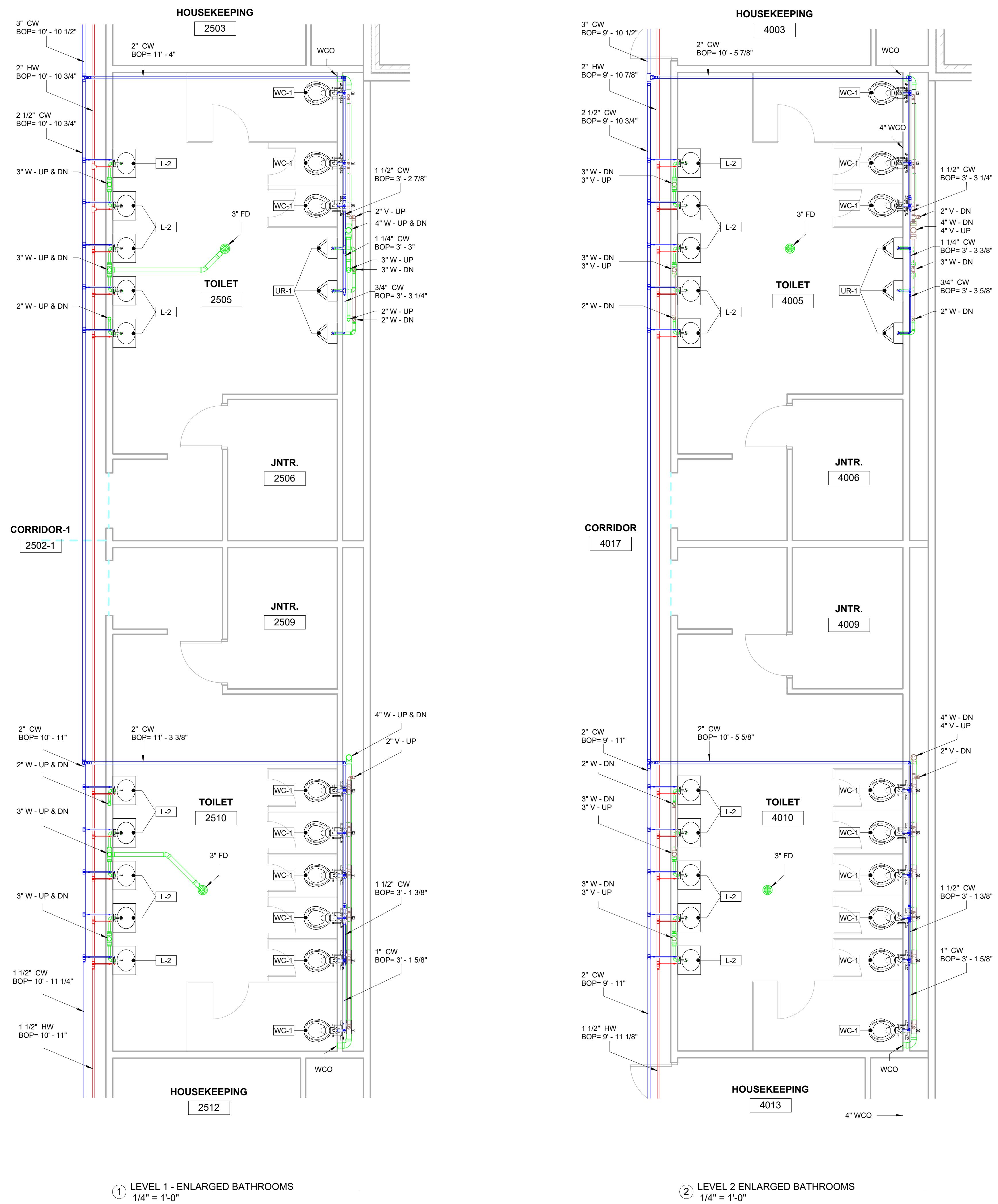
BIM 322 - FINAL

ENLARGED PLUMBING PLANS

Project Number	Project Number
Date	Issue Date
Drawn By	Author
Checked By	Checker
P-401	
Scale	1/4" = 1'-0"

P-401

$$1/4" = 1'-0"$$



1 LEVEL 1 - ENLARGED BATHROOMS
1/4" = 1'-0"

2 LEVEL 2 ENLARGED BATHROOMS
1/4" = 1'-0"

3 ENLARGED MECHANICAL ROOM
1/4" = 1'-0"

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PLUMBING DETAILS

Project Number	Project Number
Date	Issue Date
Drawn By	Author
Checked By	Checker

P-501

12" = 1'-0"

KEYED NOTES:

- 1 CONCENTRIC CONES REQUIRED.
- 2 1" (PREFERRED, 3/4" MIN.) MUELLER, A.Y. McDONALD, OR FORD CORPORATION STOP EACH SIDE OF VALVE MUST BE A COMPRESSION FITTING.
- 3 RESILIENT SEAT GATE VALVE.
- 4 PRECAST MANHOLE SECTIONS WITH A MINIMUM THICKNESS OF 5".
- 5 WATERTIGHT JOINT.
- 6 GASKET-TYPE WATERSTOP COLLAR FOR ALL WATER MAIN CONNECTIONS (TYP).
- 7 CAST IRON MANHOLE FRAME AND COVER SIMILAR TO NEENAH R-1712, OR EQUAL WITH STANDARD DUTY, NON-ROCKING LIDS.

CARRIER PIPE. SEE PLANS FOR SIZES

DIAMETER OF WATER MAIN	D	T
8" AND OVER	5'	5"

NOTES:

1. DES LOA
2. ALL INCL

12" = 1'-0"

8x8 CONCRETE SUPPORT (TYP/2)

This technical diagram illustrates the installation of a trap primer assembly. A horizontal line at the top represents the '1/2" CW TAKE-OFF TOP OF BRANCH MAIN OR SUPPLY'. A vertical line descends from this point to an 'ISOLATION VALVE'. Below the valve is a 'TRAP PRIMER VALVE' with a 'VACUUM BREAKER PORT' on its right side. A vertical line labeled '1/2" TP LINE TO TRAP PRIMER INLET' connects the trap primer valve to a 'FINISH FLOOR'. A 'PROVIDE UNION FOR REMOVAL' is indicated at the base of the trap primer valve. To the left, an 'ACCESS PANEL @ CONCEALED LOCATIONS' is shown. A callout box specifies a 'MOUNTING HEIGHT 1'-0" PER 20 FT OF TP LENGTH'.

WATER HAMMER ARRESTOR SCHEDULE

P.D.I. SIZE	"A"	"B"	"C"	"D"	"E"	"F"
Fixture Units	1-11	12-32	33-60	61-113	114-154	155-330
Connection Size	3/4"	3/4"	1"	1"	1"	1"

3-3/8" DIA.

3-1/2" MIN.

8-1/2" MAX.

WATER HAMMER ARRESTOR

THREADED END CONNECTION

FITTING ADAPTER

ISOLATION VALVE

ACCESS PANEL

3/4" OR 1" RISER

NOTE: INSTALLATION SHALL COMPLY W/P.D.I. STANDARD WH201. UNITS NOT SIZED ON PLAN SHALL BE SIZED PER SCHEDULE ABOVE

2 WATER HAMMER ARRESTOR
ASSEMBLY DETAIL
12" = 1'-0"



PLUMBING FIXTURE SCHEDULE

PLUMBING FIXTURE SCHEDULE					
MARK	DESCRIPTION	SPECIFICATIONS	MANUFACTURER	MODEL	COMMENTS
	Water Closet Support	<varies>	Zurn Water, LLC	Z1201-N	
FCO	Floor Cleanout	CO5-4"-PVC	WATTS	CO5	
FD	Floor Drain	6" Strainer - 3" Drain	WATTS		
L-1	Lavatory - Vanity	48" x 18" - Public	KOHLER		
L-2	Lavatory - Oval	25"x20" - Public	KOHLER		
S-1	Sink - Island - Single	30"x21" - Public	KOHLER		
UR-1	Urinal - Wall Hung	3/4" Flush Valve	TOTO		
WC-1	Water Closet - Flush Valve - Wall Mounted	Public - 1.6 gpf	TOTO		

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MECHANICAL EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
GM-1	GAS METER			N.I.C.
WH-1	WATER HEATER			

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PLUMBING SCHEDULES

Project Number	Project Number
Date	Issue Date
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P-601	
Scale	

P-601



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BIM 322 - FINAL

PLUMBING ISOMETRIC

Project Number	Project Number
Date	Issue Date
Drawn By	Author
Checked By	Checker
P-701	
Scale	

P-701

Scale

1 PLUMBING ISOMETRIC