

WATER HAMMER ARRESTERS

GROUPED FIXTURES

TABLE 1 - FOR GROUPED FIXTURES

P.D.I. UNITS	AA	1	B	C	D	E	F
FIXTURE UNITS	13	1-11	12-32	33-50	51-113	114-154	155-330

RULE 1 - MULTIPLE FIXTURES NOT EXCEEDING 20 FT.

SELECTION METHOD:

USING TABLE 1, SIZE UNIT "X" FOR THE TOTAL FIXTURE UNITS OF BRANCH LINE.

RULE 2 - MULTIPLE FIXTURES EXCEEDING 20 FT.

SELECTION METHOD:

SIZE UNIT "X" AND UNIT "Y" SO THE SUM OF THE RATINGS IS EQUAL TO OR GREATER THAN TOTAL FIXTURE UNITS OF BRANCH LINE.

COMBINATION OF RULE 1 AND RULE 2

SELECTION METHOD:

USING TABLE 1, SIZE UNIT "X" FOR BRANCH 1 BASE ON RULE 1. SIZE UNITS "Y" AND "Z" BASED ON RULE 2.

LONG RUNS

TABLE 2 - WATER PRESSURES UP TO 85 P.S.I.G.

P.D.I. WATER HAMMER ARRESTERS		NOMINAL PIPE DIAMETER						
LENGTH OF PIPE (FT.)	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"		
25	A	A	B	C	D	E		
50	A	B	C	D	E	F		
75	B	C	D	AB	F	EF		
100	C	D	E	F	CF	FF		
125	C	D	F	AF	EF	EFF		
150	D	E	F	FP	FF	FFF		

TABLE 2A - WATER PRESSURES 85 P.S.I.G. TO 165 P.S.I.G.

P.D.I. WATER HAMMER ARRESTERS		NOMINAL PIPE DIAMETER						
LENGTH OF PIPE (FT.)	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"		
25	B	B	B	D	E	F		
50	B	C	C	E	F	CF		
75	C	D	D	F	CF	FF		
100	D	E	E	CF	EF	EFF		
125	D	E	E	DF	FF	EFF		
150	E	F	F	F	EFF	FFFF		

NOTE:

LOCATE WHA AS CLOSE AS POSSIBLE TO POINT OF CLOSURE

SELECTION METHOD:

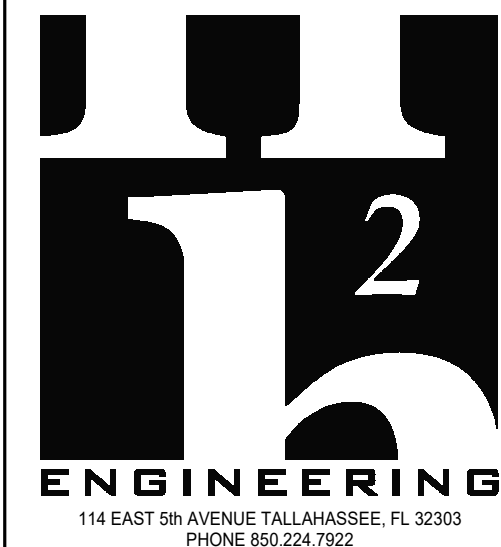
USING EITHER TABLE 2 OR 2A (BASED ON SYSTEM PRESSURE), SIZE UNIT "X" BASED ON SIZE OF PIPE AND LENGTH OF RUN.

GENERAL NOTE:

PROVIDE WATER HAMMER ARRESTERS IN ACCORDANCE WITH STANDARD PDH-WH01

	<p>NOTES:</p> <ol style="list-style-type: none"> 1. UNLESS NOTES OTHERWISE ON PLANS. 2. COMBINATION WASTE AND VENT PIPING SHALL BE RUN AT A MAXIMUM SLOPE OF 1/2" PER FOOT. 3. SEE ROOF DRAINAGE SCHEDULE FOR SLOPE AT EACH ROOF DRAIN. 	
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Submittal				
Phase	Date	Drw	Chk	
DESIGN DEVELOPMENT	02-26-25	SPD	RDR	
50% CD	04-15-25	SPD	RDR	
100% CD	07-18-25	SPD	RDR	
Revision				
#	Description	Date		
CRA Project # 24029				
Phase: CONSTRUCTION DOCUMENTS				
SHEET TITLE				
GENERAL NOTES, LEGENDS & SCHEDULES				
P0.1				



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Revision

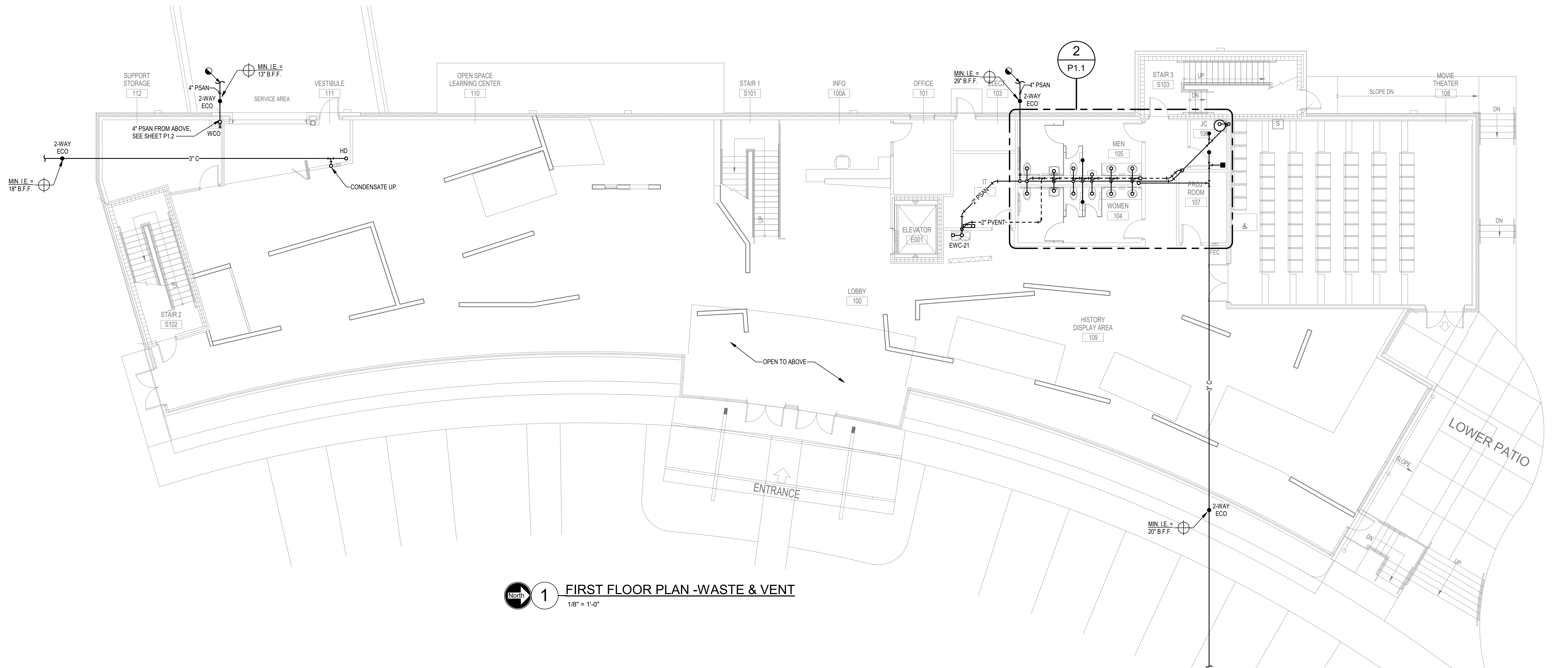
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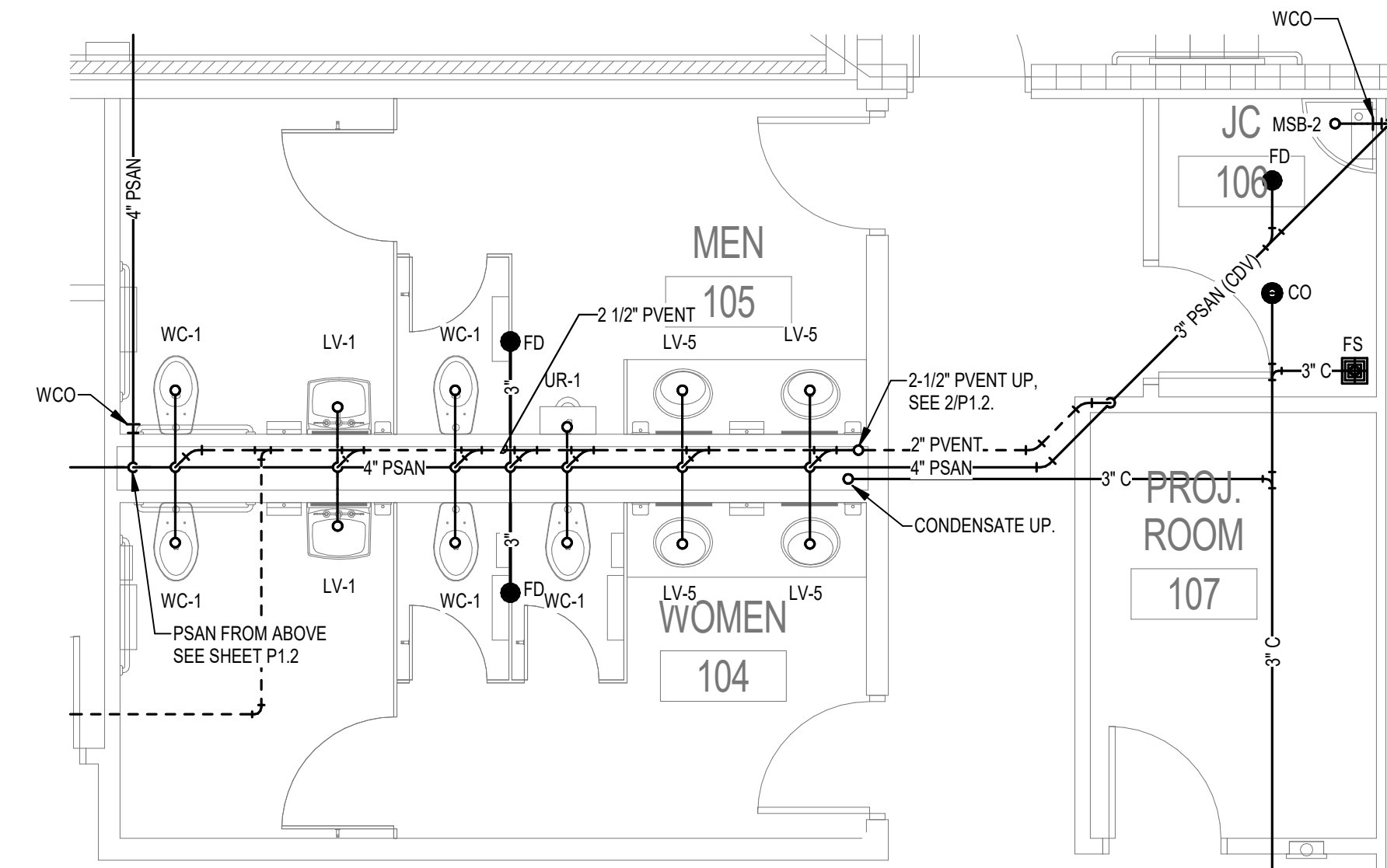
Phase: CONSTRUCTION
DOCUMENTS

SHEET TITLE
YOUTH LEARNING
CENTER - 1ST FLOOR
PLAN - WASTE

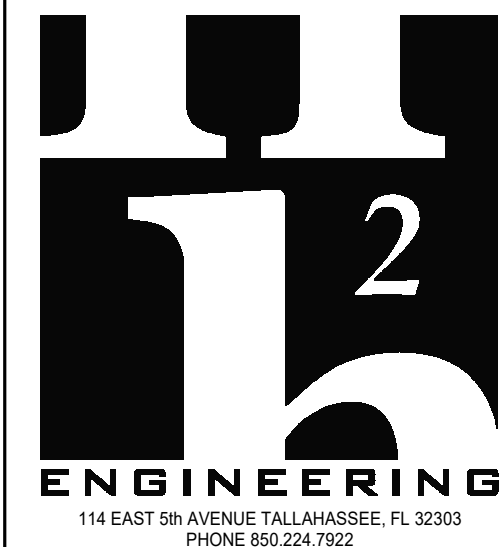
P1.1



1 FIRST FLOOR PLAN -WASTE & VENT
1/8" = 1'-0"



2 ENLARGED FIRST FLOOR PLAN - WASTE & VENT
1/4" = 1'-0"



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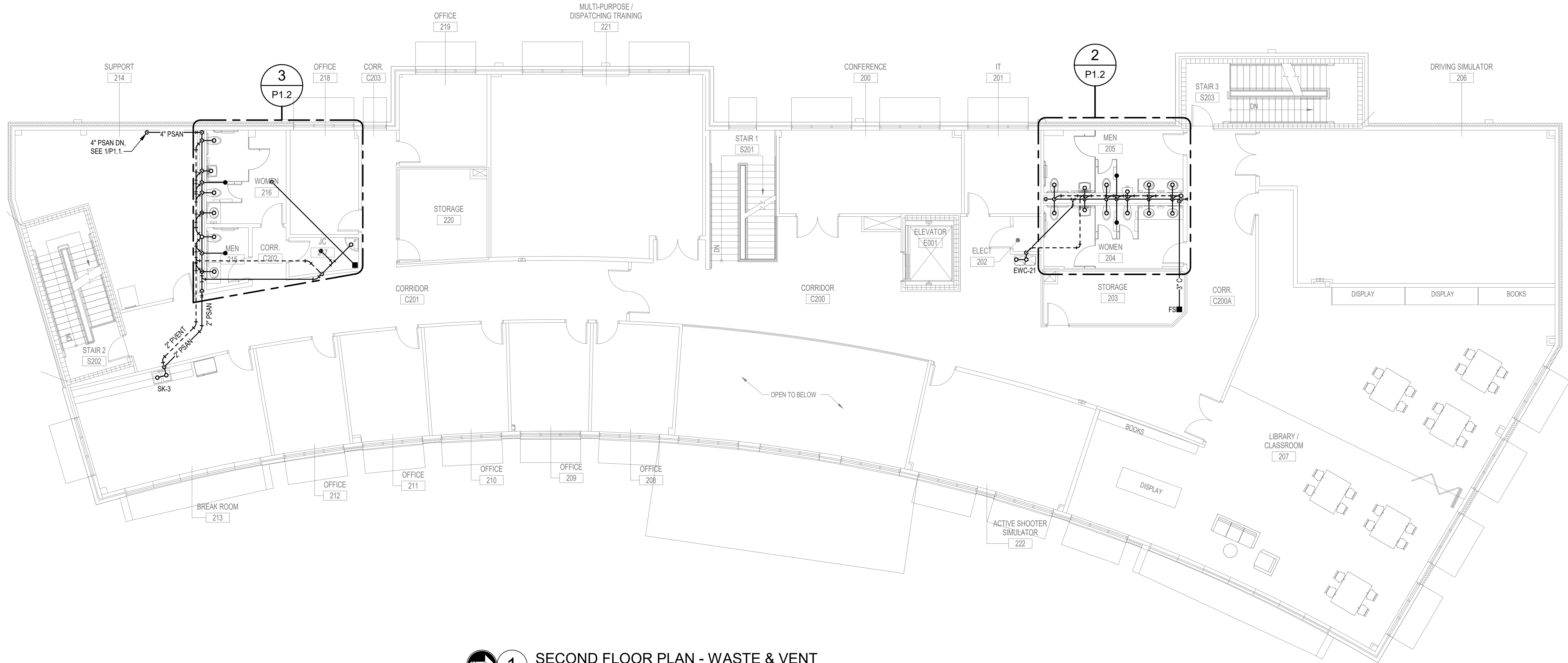
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50% CD	04-15-25	SPD	RDR	
100% CD	07-18-25	SPD	RDR	

Revision		
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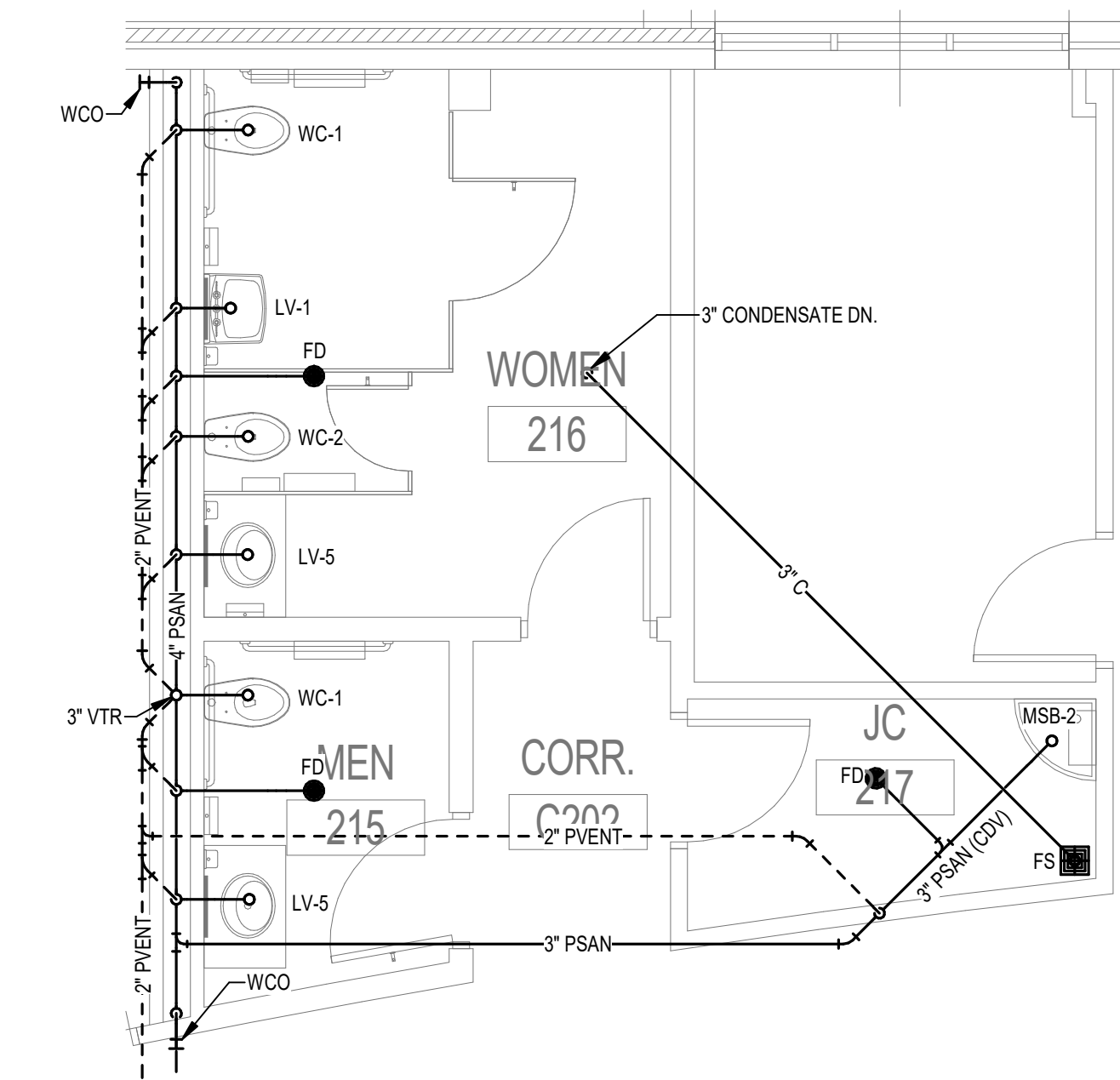
CRA Project # 24029

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DOCUMENTS

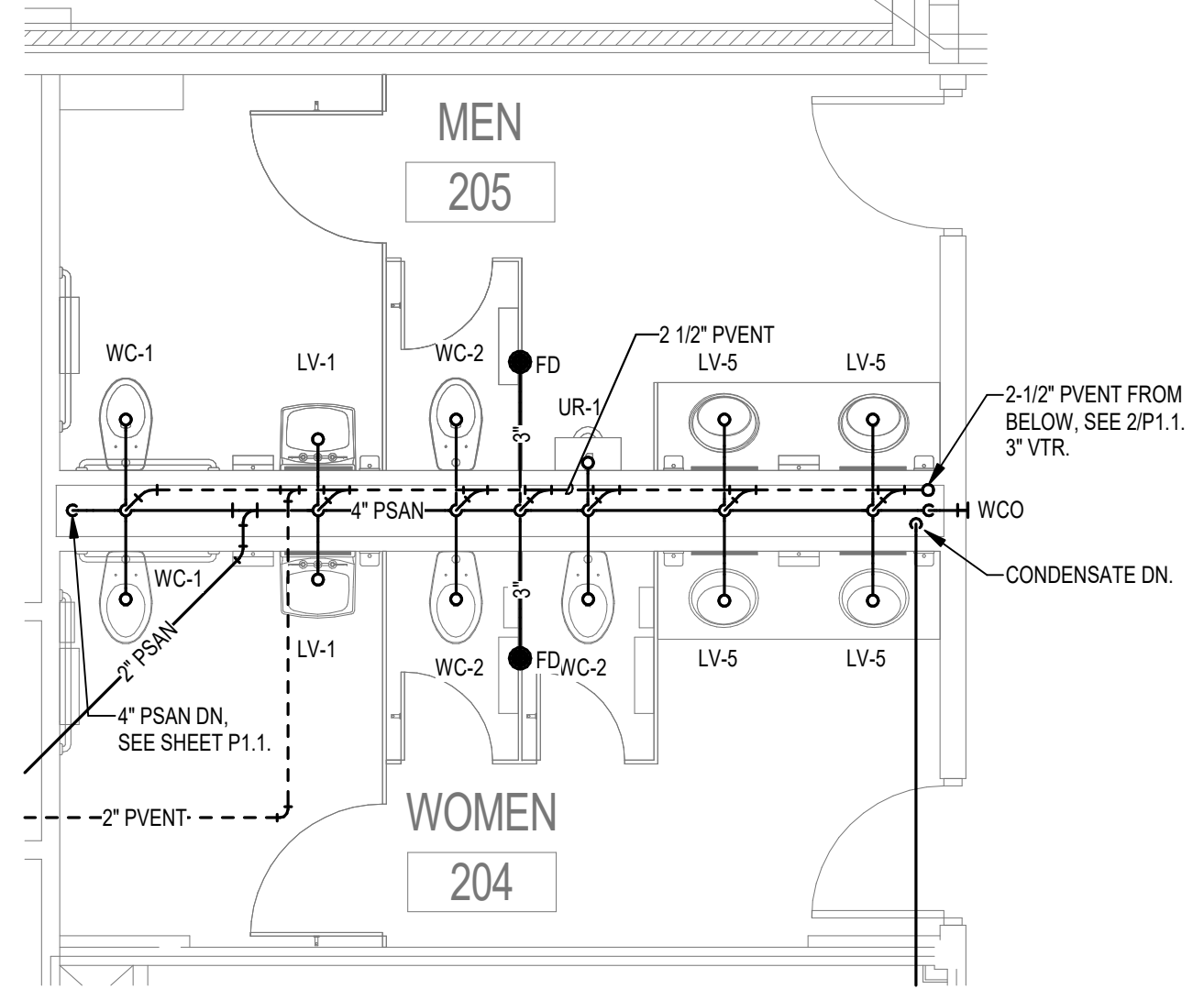
SHEET TITLE
**YOUTH LEARNING
CENTER - 2ND FLOOR
PLAN - WASTE**
P1.2



1 SECOND FLOOR PLAN - WASTE & VENT
1/8" = 1'-0"



3 ENLARGED SECOND FLOOR PLAN - WASTE & VENT
1/4" = 1'-0"



2 ENLARGED SECOND FLOOR PLAN - WASTE & VENT
1/4" = 1'-0"



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100% CD	07-18-25	SPD	RDR

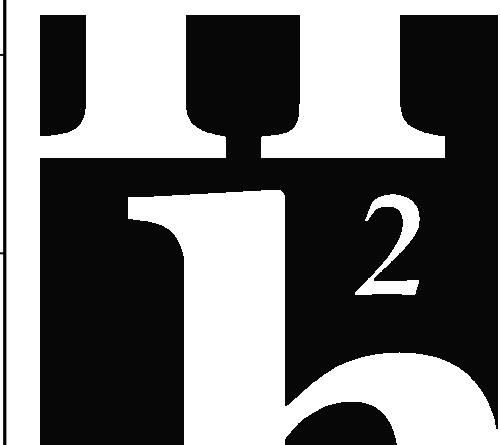
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Phase: **CONSTRUCTION DOCUMENTS**

SHEET TITLE
**YOUTH LEARNING
CENTER - ROOF PLAN**

P1.3





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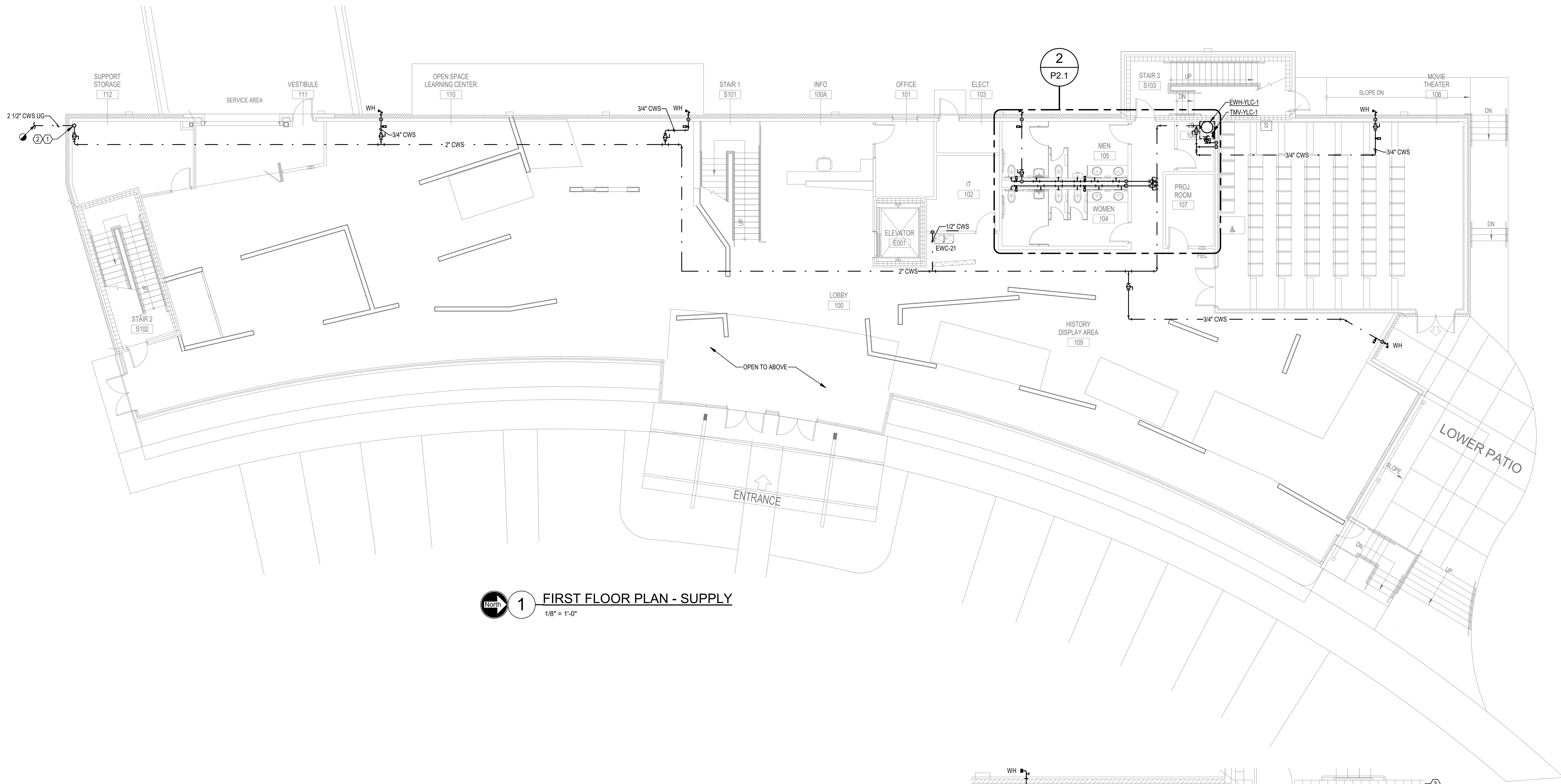
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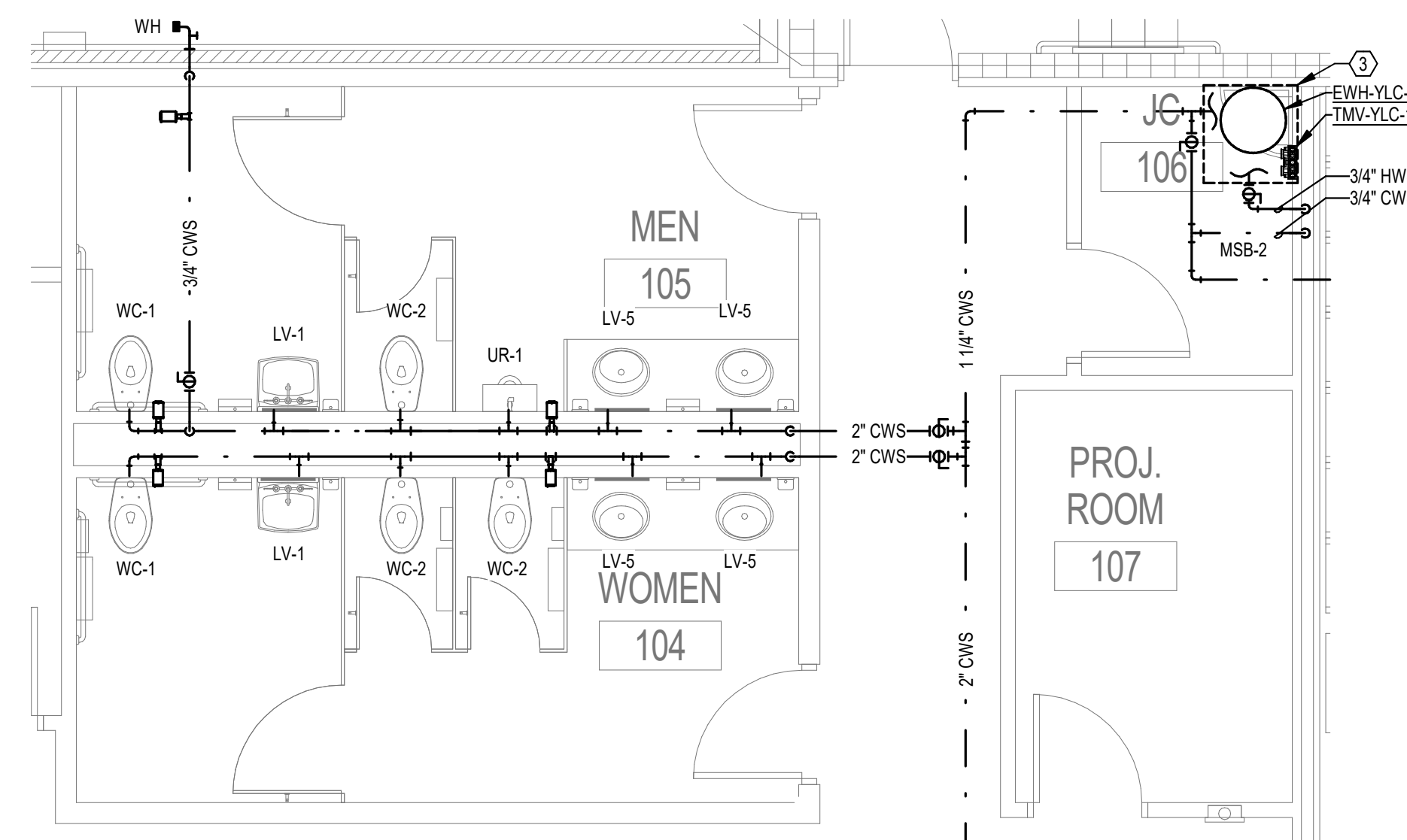
SHEET TITLE
YOUTH LEARNING
CENTER - 1ST FLOOR
PLAN - SUPPLY
P2.1

KEYED NOTES:

- ① WATER SERVICE ENTRANCE. SEE DETAILS B&FP5.1.
- ② 2" CWS UP. SEE 1/P2.2.
- ③ SHELF MOUNT EWH-YLC-1 ABOVE MOP SINK. SEE APS.1 FOR WATER HEATER AND TMV PIPING.

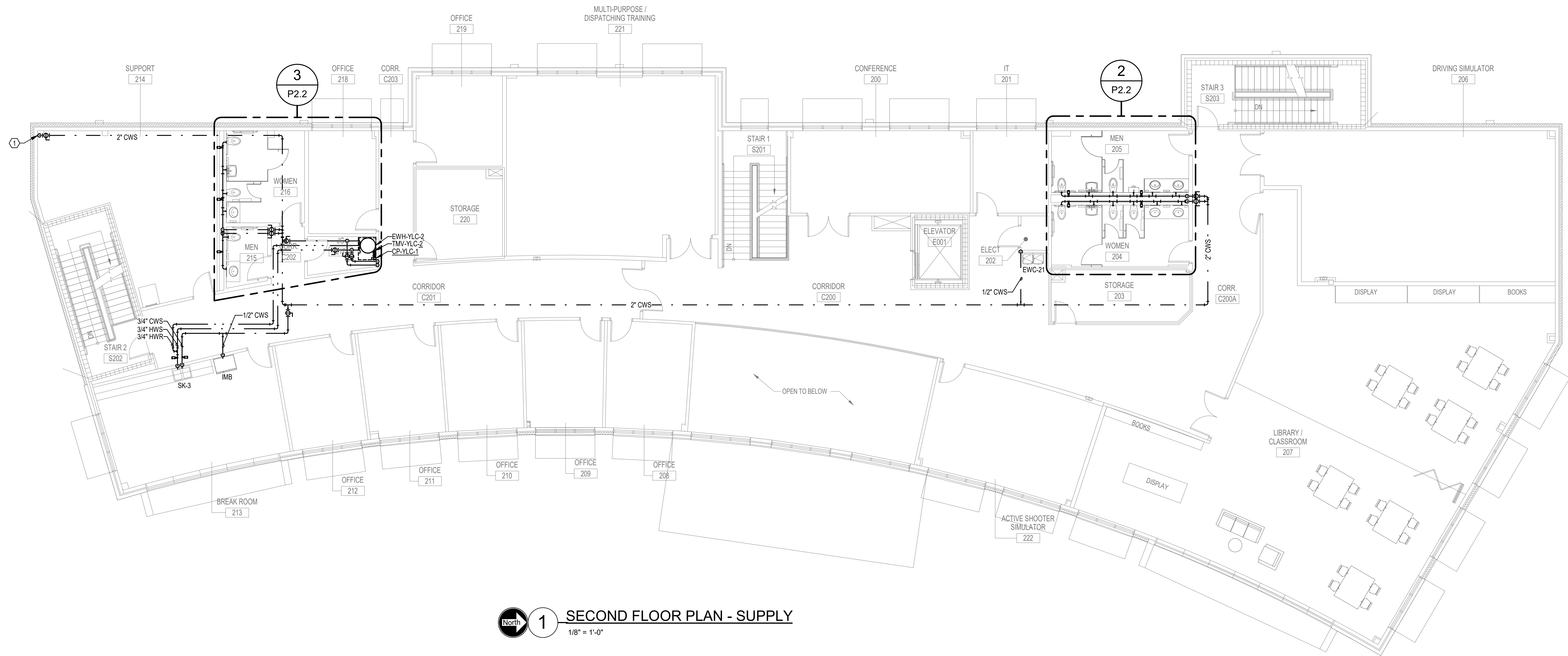


1 FIRST FLOOR PLAN - SUPPLY
1/8" = 1'-0"

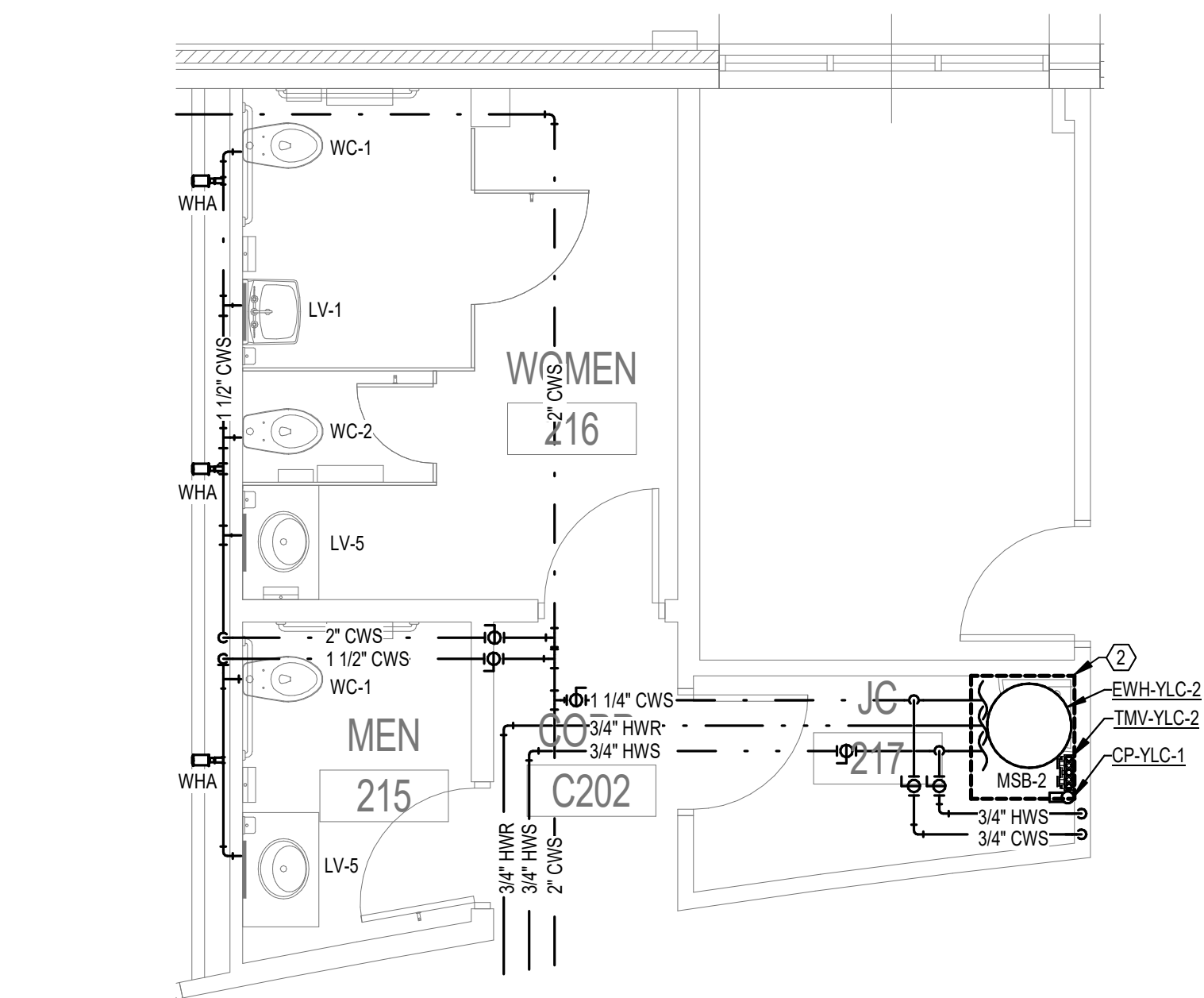


2 ENLARGED FIRST FLOOR PLAN - SUPPLY
1/4" = 1'-0"

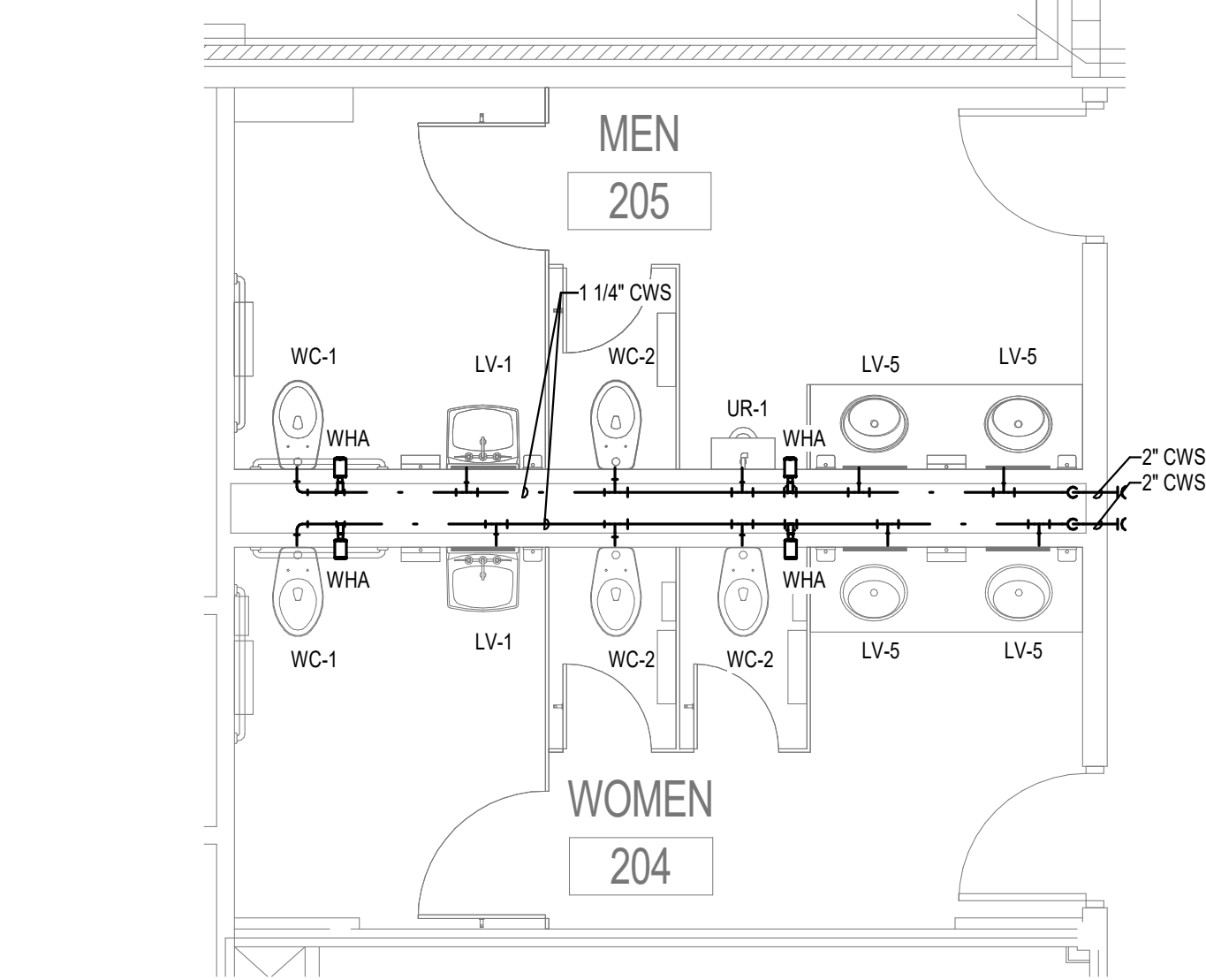
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1 SECOND FLOOR PLAN - SUPPLY
1/8" = 1'-0"



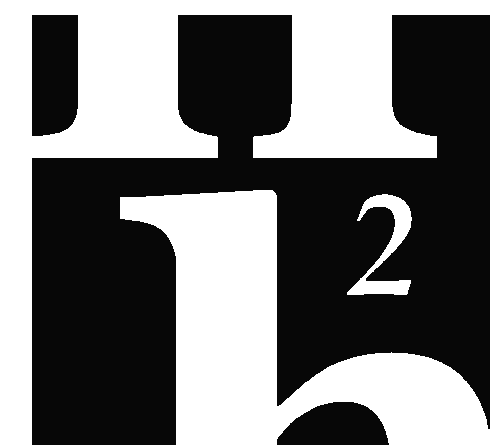
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1/4" = 1'-0"



2 ENLARGED SECOND FLOOR PLAN - SUPPLY
1/4" = 1'-0"

KEYED NOTES:

- ① 2" CWS FROM BELOW, SEE 1/P2.1.
② SHELF MOUNT EWH-YLC-2 ABOVE MOP SINK. SEE A/P5.1 FOR WATER HEATER AND TMV PIPING.



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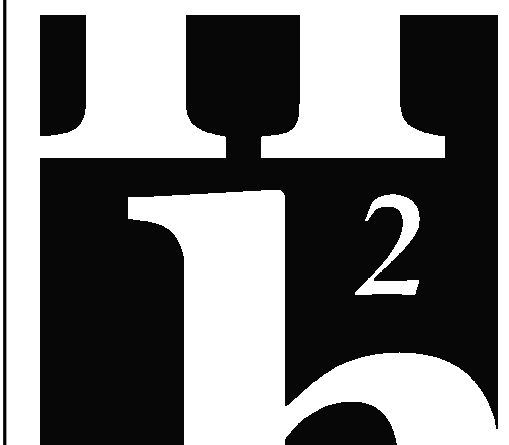
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50% CD	04-15-25	SPD	RDR	
100% CD	07-18-25	SPD	RDR	

Revision		
#	Description	Date

CRA Project # **24029**

Phase: **CONSTRUCTION
DOCUMENTS**

SHEET TITLE
**YOUTH LEARNING
CENTER - 2ND FLOOR
PLAN - SUPPLY
P2.2**



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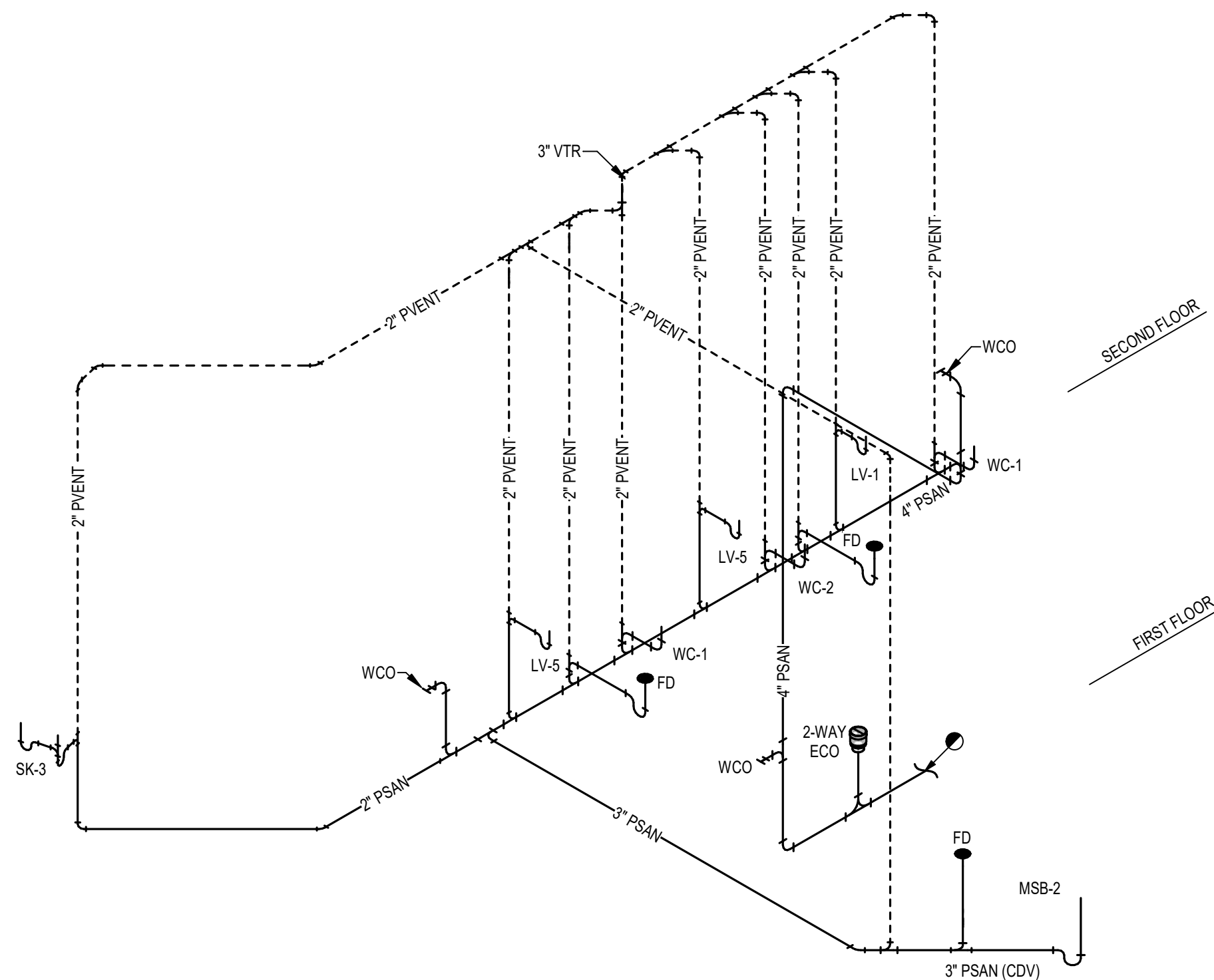
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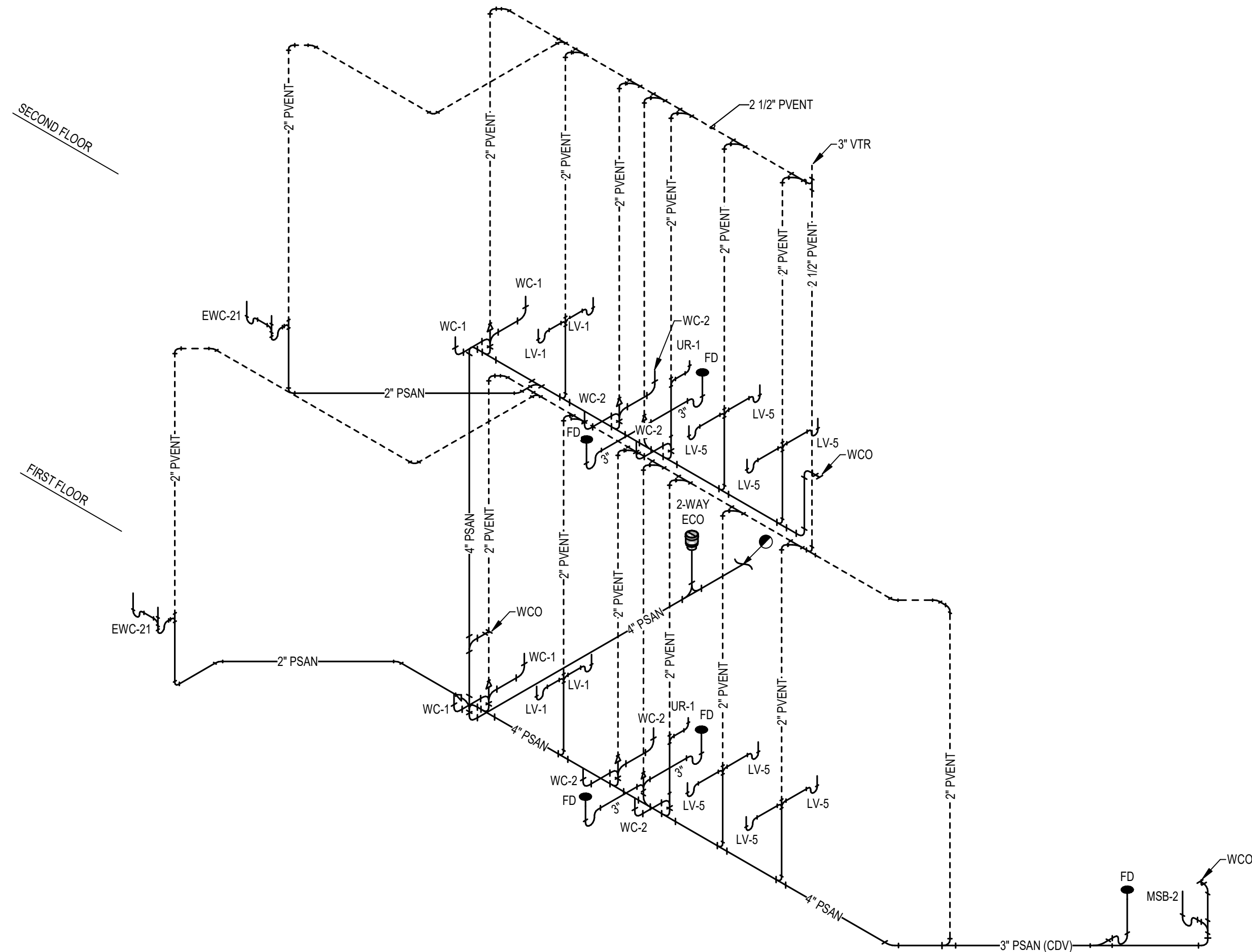
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SHEET TITLE
**YOUTH LEARNING
CENTER - WASTE & VENT
RISERS**

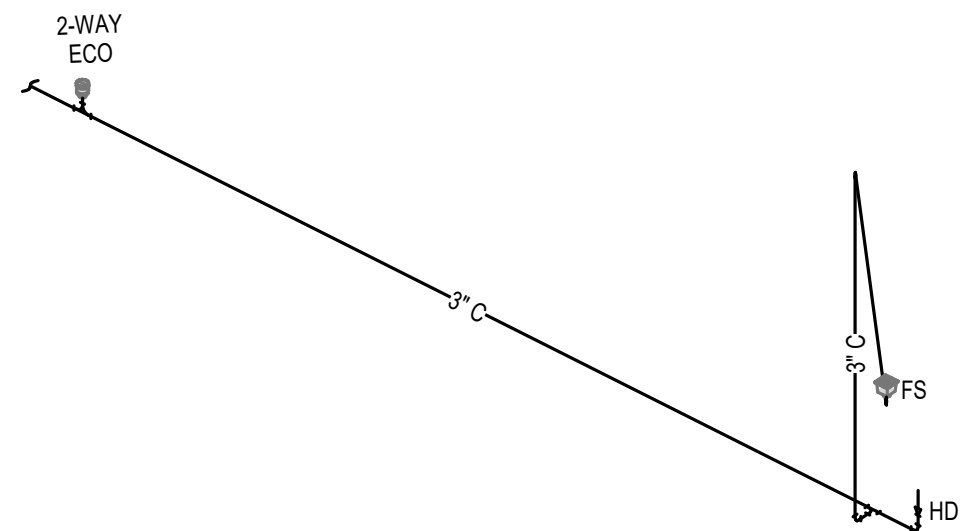
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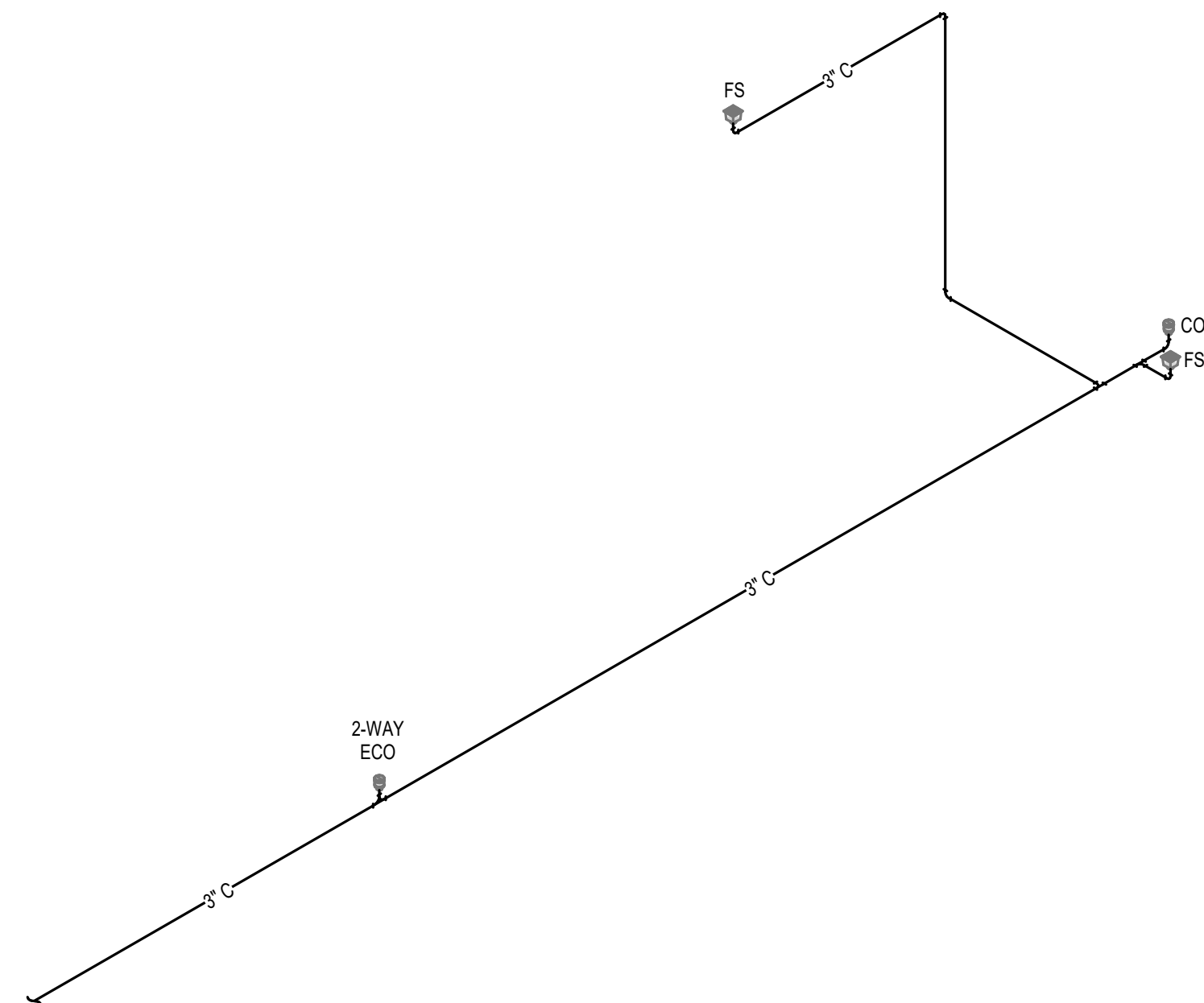
② YOUTH LEARNING CENTER - WASTE & VENT - SOUTH



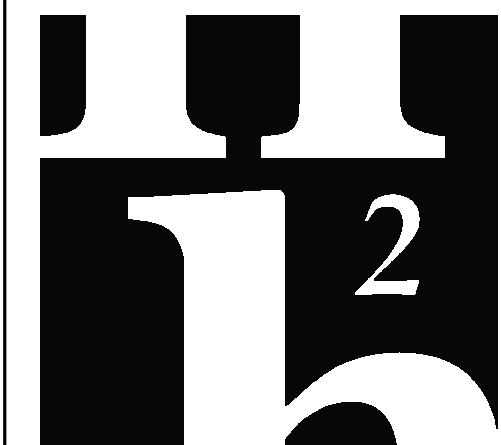
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③ YOUTH LEARNING CENTER - CONDENSATE - SOUTH



④ YOUTH LEARNING CENTER - CONDENSATE - NORTH



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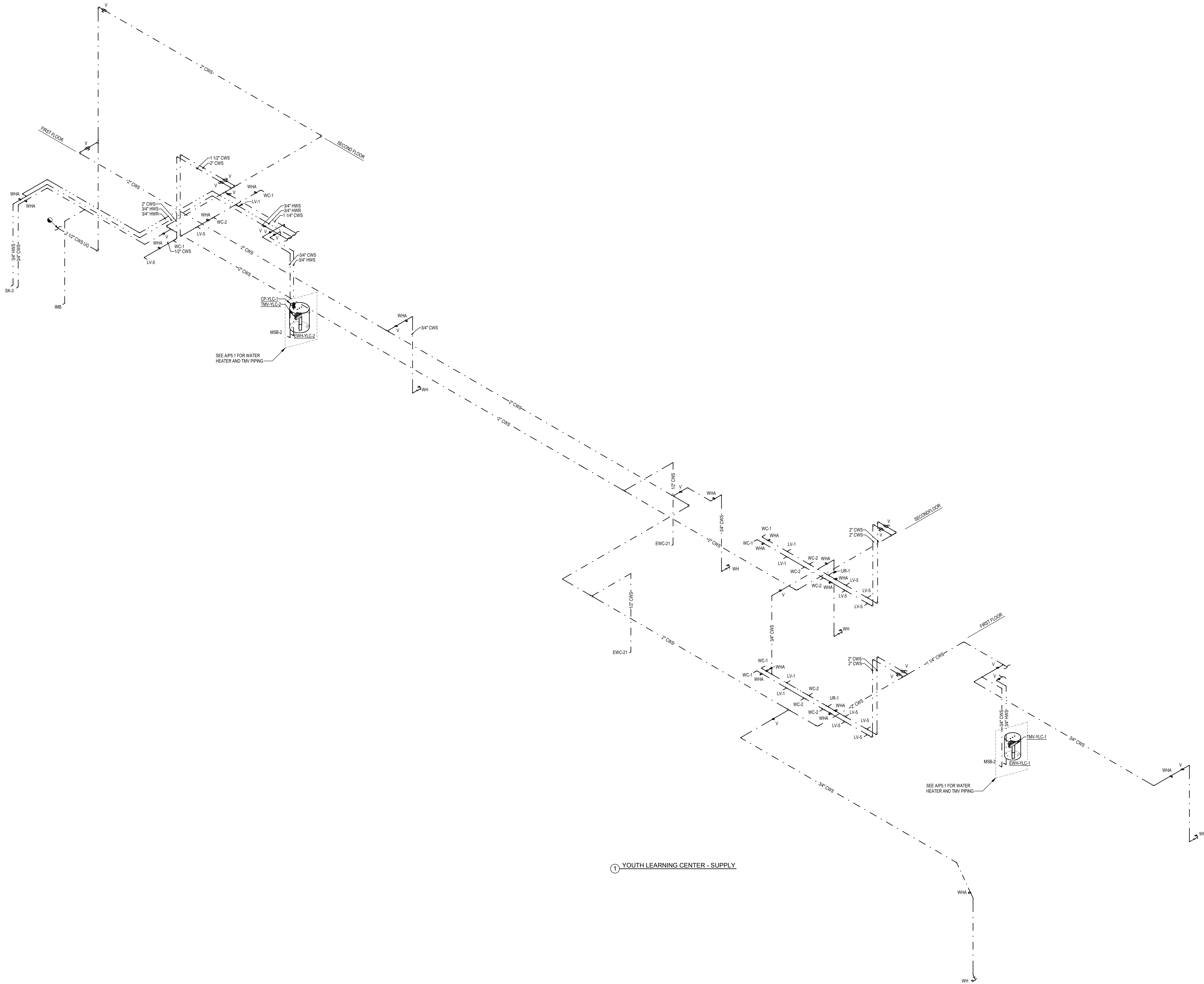
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Phase: **CONSTRUCTION
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SHEET TITLE
**YOUTH LEARNING
CENTER - SUPPLY
RISERS**

P3.3



① YOUTH LEARNING CENTER - SUPPLY

FIXTURE UNIT CALCULATIONS - YOUTH LEARNING CENTER

FIXTURE TYPE		QUANTITY	WASTE		SUPPLY					
			UNIT	TOTAL	COLD		HOT		TOTAL	
					UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL
	DRINKING FOUNTAIN	2	0.5	1	0.25	0.5			0.25	0.5
	LAVATORY (COLD WATER)	15	1	15	2	30			2	30
	SINK	1	2	2	2		2	2	3	3
	MOP SERVICE BASIN	2	2	4	2.25	4.5	2.25	4.5	3	6
	URINAL (3/4" VALVE)	2	4	8	5	10			5	10
	WATER CLOSET (FLUSH VALVE)	13	6	78	10	130			10	130
	HOSE BIBB / WALL HYDRANT	7			4	28			4	28
	FLOOR DRAIN	8	2	16						
	REFRIGERATOR / ICE MAKER	1			1	1			1	1
TOTAL FIXTURE UNITS				124		206		7		209
DOMESTIC WATER DEMAND (GPM)						91.3		5.9		91.9

THERMOSTATIC MIXING VALVES

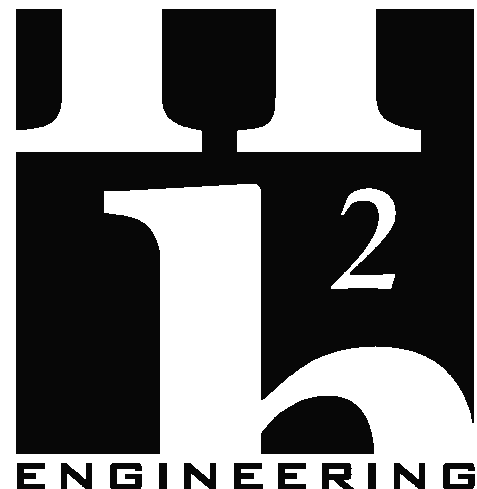
DESIGNATION		TMV-YLC-1	TMV-YLC-2
APPLICATION		MED / LOW	MED / LOW
	SET-POINT	*F	110
	MINIMUM FLOW	GPM	0.5
	MAXIMUM FLOW	GPM	3.5
	PRESSURE DROP @ MAX FLOW	PSI	5
	RECIRCULATED SYSTEM	YES	YES
	ASSE COMPLIANCE	1017	1017
MANUFACTURER		LAWLER	LAWLER
MODEL NUMBER		61-15	61-15
DETAIL REFERENCE		A/PS.1	A/PS.1
NOTES:			
1		PROVIDE ROUGH BRASS FINISH	

CIRCULATOR PUMPS

DESIGNATION		CP-YLC-1
SERVICE		DHW
	CAPACITY	GPM
	TOTAL DYNAMIC HEAD	FT.
	SHUT-OFF HEAD	FT.
	PUMP SEAL	MECHANICAL
	MOTOR SPEED	RPM
	MOTOR HORSEPOWER	HP
	MOTOR WINDING	FULL
	ELECTRICAL CHARACTERISTICS	V / PH
	NOTES	1
	MANUFACTURER	TACO
MODEL NUMBER		009-SF5
DETAIL REFERENCE		A/PS.1
NOTES:		
1		PROVIDE TACO 00 TIMER/AQSTAT WITH 7 DAY DIGITAL PROGRAMMABLE TIMER. SET TIMER FOR ALLOWABLE OPERATION DURING OCCUPIED HOURS AND AQSTAT TO CYCLE PUMP.
2		PLUMBING CONTRACTOR TO COORDINATE INSTALLATION OF TIMER AND AQSTAT WITH ELECTRICAL CONTRACTOR AND INSTALL PER MANUFACTURER INSTRUCTIONS.

ELECTRIC STORAGE WATER HEATERS

DESIGNATION		EWH-YLC-1	EWH-YLC-2
STORAGE		GAL	15
	HEATING ELEMENT INPUT (EACH)	KW	3.0
	NUMBER OF ELEMENTS	#	1
	SIMULTANEOUS OPERATION OF ELEMENTS	NO	NO
	TOTAL HEATING INPUT	KW	3.0
	ENTERING WATER TEMPERATURE	*F	65
	LEAVING WATER TEMPERATURE	*F	140
	TEMPERATURE RISE	*F	75
	RECOVERY RATE	GPH	16
	ELECTRICAL CHARACTERISTICS	V / PH	208 / 1
	MANUFACTURER	A.O. SMITH	A.O. SMITH
MODEL NUMBER		DEL-15	DEL-15
DETAIL REFERENCE		A/PS.1	A/PS.1
NOTES:			
1		PROVIDE LOW WATER CUT-OFF.	



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FLORIDA SHERIFFS YOUTH LEARNING CENTER AND BLACKBURN-HUNT BUILDING

MAHAN DRIVE
TALLAHASSEE, FL.



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Submittal

Phase	Date	Drw	Chk
DESIGN DEVELOPMENT	02-28-25	SPD	RDR
50% CD	04-15-25	SPD	RDR
100% CD	07-18-25	SPD	RDR

Revision

#	Description	Date

CRA Project # 24029

Phase: CONSTRUCTION DOCUMENTS

SHEET TITLE
SCHEDULES

P4.1

PLUMBING FIXTURE ACCESSORY SCHEDULE

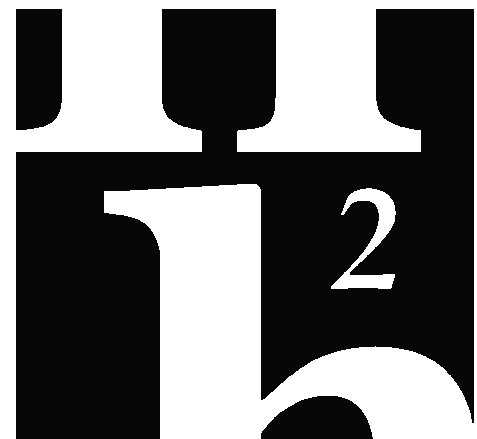
ACCESSORY TAG	ACCESSORY DESCRIPTION	MANUFACTURER AND MODEL NUMBER
DR-LV-C	1-1/4" CHROME PLATED BRASS OFFSET DRAIN WITH TAIL PIECE. PROVIDE A PERFORATED FLAT CHROME BRASS STRAINER.	ELKAY: LKAD174 OR APPROVED EQUAL
DR-SK-STD	TYPE 304 STAINLESS STEEL DRAIN, REMOVABLE CONICAL STRAINER BASKET, 1-1/2" STAINLESS STEEL OFFSET TAILPIECE.	ELKAY: LK35LK33LKAD35 OR APPROVED EQUAL
FCT-LV-0.5-AUTO-B	SINGLE INLET, DECK MOUNTED FAUCET, A.D.A. COMPLIANT, 4" CENTERSET, POLISHED CHROME PLATED BRASS, LEAD FREE, BATTERY POWERED, SENSOR OPERATED, 0.5 GPM AERATOR WITH PRESSURE COMPENSATING FLOW CONTROL.	AMERICAN STANDARD: 605B.205 OR APPROVED EQUAL
FCT-LV-0.5-AUTO-W	SINGLE INLET, DECK MOUNTED FAUCET, A.D.A. COMPLIANT, 4" CENTERSET, POLISHED CHROME PLATED BRASS, LEAD FREE, HARDWIRED, SENSOR OPERATED, 0.5 GPM AERATOR WITH PRESSURE COMPENSATING FLOW CONTROL. PROVIDE 10'-0" EXTENSION CABLE, Y-CONNECTOR, AND ONE TRANSFORMER FOR UP TO 10 FAUCETS OR FLUSH VALVES.	AMERICAN STANDARD: 605B.205 OR APPROVED EQUAL
FCT-MSB	SERVICE SINK FAUCET, POLISHED CHROME PLATED BRASS, BUILT-IN STOPS, VACUUM BREAKER, LEVER HANDLES, WALL BRACE, 3/4" HOSE OUTLET.	T&S BRASS: B-0655-BSTP OR APPROVED EQUAL
FCT-SK-1.5-GEN-SPRAY	SINGLE LEVER DECK MOUNTED FAUCET, POLISHED CHROME PLATED BRASS, 9" SWING SPOUT, 1.5 GPM AT 80 PSI AERATOR, HOSE AND SPRAY, SOFT-CLOSING VALVE WITH INTEGRAL FLOW CONTROL AND ADJUSTABLE STOP TO RESTRICT EXTREME TEMPERATURES. PROVIDE COVER PLATE.	T&S BRASS: B-2730 OR APPROVED EQUAL
FD-SH	FLOOR DRAIN FOR SHOWER, 2" OUTLET	0
FV-0.125-AUTO-B	EXPOSED AUTOMATIC URINAL FLUSH VALVE, A.D.A. COMPLIANT, POLISHED CHROME PLATED, 0.125 GPF, BATTERY POWERED, SENSOR OPERATED, 3/4" SCREWDRIVER ANGLE STOP, VACUUM BREAKER, CAST WALL FLANGE.	AMERICAN STANDARD: 6063.013.002 OR APPROVED EQUAL
FV-1.6-AUTO-B	EXPOSED AUTOMATIC WATER CLOSET FLUSH VALVE, A.D.A. COMPLIANT, POLISHED CHROME PLATED, 1.6 GPF, BATTERY POWERED, SENSOR OPERATED, 1" SCREWDRIVER ANGLE STOP, VACUUM BREAKER, CAST WALL FLANGE.	AMERICAN STANDARD: 6065.161.002 OR APPROVED EQUAL
HGR-MSB	STAINLESS STEEL HANGER, WITH THREE RUBBER TOOL GRIPS.	FIAT: 888CC OR APPROVED EQUAL
HOSE-MSB	HEAVY DUTY, FLEXIBLE HOSE, 5/8" RUBBER, CLOTH REINFORCED, 3/4" BRASS COUPLING, TYPE 302 STAINLESS STEEL BRACKET WITH RUBBER GRIP.	FIAT: 832AA OR APPROVED EQUAL
RMGD-MSB	ALUMINUM RIM GUARD.	FIAT: 1239BB OR APPROVED EQUAL
SEAT-OPN-FRT	EXTRA HEAVY DUTY, OPEN FRONT, ELONGATED SEAT, WITHOUT COVER, SOLID PLASTIC, SELF-SUSTAINING CHECK TYPE HINGE. HINGES SHALL MATCH SEAT COLOR. STAINLESS STEEL POSTS FITTED WITH STAINLESS STEEL WASHERS AND NUTS.	BEMIS: 1655SSCT OR APPROVED EQUAL
TMV-LV-95	EXPOSED ROUGH BRONZE, THERMOSTATIC MIXING VALVE, ADJUSTABLE LIMIT STOP, ASSE 1070, LISTED FOR POINT OF USE APPLICATION. SET OUTLET TEMPERATURE TO 95°F.	LAWLER: 570 OR APPROVED EQUAL
TMV-SK	EXPOSED ROUGH BRONZE, THERMOSTATIC MIXING VALVE, ADJUSTABLE LIMIT STOP, ASSE 1070, LISTED FOR POINT OF USE APPLICATION. SET OUTLET TEMPERATURE TO 110°F.	LAWLER: 570 OR APPROVED EQUAL
TR-LV	CAST BRASS ADJUSTABLE P-TRAP, TUBING OUTLET, 1-1/4" x 1-1/2", CLEANOUT PLUG, POLISHED CHROME PLATED FINISH.	ELKAY: LK530 OR APPROVED EQUAL
TR-SK-STD	CAST BRASS ADJUSTABLE P-TRAP, TUBING OUTLET, 1-1/2" x 1-1/2", CLEANOUT PLUG, POLISHED CHROME PLATED FINISH.	KOHLER: K-9000-CP OR APPROVED EQUAL
TSI-FD	POLYMER INLINE TRAP SEAL INSERT FOR SHOWER DRAIN, 2" OUTLET	JOSAM: 82040 OR APPROVED EQUAL

PLUMBING FIXTURE SCHEDULE

FIXTURE DESIGNATION	FIXTURE DESCRIPTION	A.D.A. COMPLIANT	MOUNTING METHOD	HEIGHT (A.F.F.)	ROUGH-IN PIPE SIZES				MANUFACTURER AND MODEL NUMBER	ACCESSORIES (SEE SCHEDULE)
					COLD WATER SUPPLY	HOT WATER SUPPLY	FIXTURE TRAP	FIXTURE DRAIN		
WC-1	FLUSH VALVE WATER CLOSET, HIGH EFFICIENCY (1.28 - 1.6 GPF) VITREOUS CHINA, SIPHON JET FLUSHING ACTION, ELONGATED RIM, 1-1/2" TOP SPUD, MIN. 2" BALLPASS TRAPWAY, COLOR: WHITE.	YES	FLOOR	RIM: 16-1/2"	1"	N/A	4"	4"	AMERICAN STANDARD: 3043.001 OR APPROVED EQUAL	SEAT-OPN-FRT FV-1.6-AUTO-B
WC-2	FLUSH VALVE WATER CLOSET, HIGH EFFICIENCY (1.28 - 1.6 GPF) VITREOUS CHINA, SIPHON JET FLUSHING ACTION, ELONGATED RIM, 1-1/2" TOP SPUD, MIN. 2" BALLPASS TRAPWAY, COLOR: WHITE.	NO	FLOOR	RIM: 15"	1"	N/A	4"	4"	AMERICAN STANDARD: 2234.001 OR APPROVED EQUAL	SEAT-OPN-FRT FV-1.6-AUTO-B
UR-1	FLUSH VALVE URINAL, ULTRA HIGH EFFICIENCY (0.125 - 1.0 GPF) VITREOUS CHINA, WASHOUT FLUSHING ACTION, 3/4" TOP SPUD, COLOR: WHITE.	YES	WALL	RIM: 17"	3/4"	N/A	2"	2"	AMERICAN STANDARD: 6590.001 OR APPROVED EQUAL	FV-0.125-AUTO-B
LV-1	LAVATORY, 20"x18", VITREOUS CHINA, 3 FAUCET HOLES (ONE CENTERED, TWO 4" OFF CENTER), ANTI-SPLASH RIM AND HIGH BACK. COLOR: WHITE.	YES	WALL	RIM: 34"	1/2"	N/A	1-1/4"	2"	AMERICAN STANDARD: 0355.012 OR APPROVED EQUAL	FCT-LV-0.5-AUTO-B DR-LV-C TR-LV
LV-1.1	LAVATORY, 20"x18", VITREOUS CHINA, 3 FAUCET HOLES (ONE CENTERED, TWO 4" OFF CENTER), ANTI-SPLASH RIM AND HIGH BACK. COLOR: WHITE.	YES	WALL	RIM: 34"	1/2"	1/2"	1-1/4"	2"	AMERICAN STANDARD: 0355.012 OR APPROVED EQUAL	FCT-LV-0.5-AUTO-W DR-LV-C TR-LV TMV-LV-95
LV-5	LAVATORY, 20"x17" OVAL, VITREOUS CHINA, 3 FAUCET HOLES (ONE CENTERED, TWO 4" OFF CENTER), SELF-RIMMING. COLOR: WHITE.	YES	COUNTER TOP	SEE ARCH. PLANS	1/2"	N/A	1-1/4"	2"	AMERICAN STANDARD: 0440.444.EC OR APPROVED EQUAL	FCT-LV-0.5-AUTO-W DR-LV-C TR-LV
LV-5.1	LAVATORY, 20"x17" OVAL, VITREOUS CHINA, 3 FAUCET HOLES (ONE CENTERED, TWO 4" OFF CENTER), SELF-RIMMING. COLOR: WHITE.	YES	COUNTER TOP	SEE ARCH. PLANS	1/2"	1/2"	1-1/4"	2"	AMERICAN STANDARD: 0440.444.EC OR APPROVED EQUAL	FCT-LV-0.5-AUTO-W DR-LV-C TR-LV TMV-LV-95
SK-1	SINGLE COMPARTMENT SINK, SELF-RIMMING, 22"x19-1/2", 18"x14"x5-1/2" DEEP BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 4 FAUCET HOLES (ONE CENTERED, TWO 4" FROM CENTER, ONE 8" FROM CENTER), SOUND DEADENING COATING ON BOTTOM OF SINK.	YES	COUNTER TOP	SEE ARCH. PLANS	1/2"	1/2"	1-1/2"	2"	ELKAY: LRAD221955.4 OR APPROVED EQUAL	FCT-SK-1.5-GEN-SPRAY DR-SK-STD TR-SK-STD TMV-SK
SK-3	DOUBLE COMPARTMENT SINK, SELF-RIMMING, 33"x22", 16"x13-1/2"x5" DEEP BOWL(S), 18 GAUGE TYPE 302 STAINLESS STEEL, SATIN FINISH, 4 FAUCET HOLES (ONE CENTERED, TWO 4" FROM CENTER, ONE 8" FROM CENTER), SOUND DEADENING COATING ON BOTTOM OF SINK.	YES	COUNTER TOP	SEE ARCH. PLANS	1/2"	1/2"	1-1/2"	2"	ELKAY: LRAD332250 OR APPROVED EQUAL	FCT-SK-1.5-GEN-SPRAY DR-SK-STD TR-SK-STD TMV-SK
MSB-2	MCP SERVICE SINK BASIN, 24" x 24"W x 12"H, WITH 2" WIDE SHOULDERS, 1/4" PITCH TOWARD INSIDE, PRECAST TERRAZZO (MINIMUM 3,000 PSI @ 7 DAYS), SURFACE GROUND AND POLISHED WITH ALL HOLES AND PITS GROUTED AND WITH EXCESS REMOVED. COLOR: BLACK & WHITE MARBLE CHIPS IN GRAY PORTLAND CEMENT.	NO	FLOOR	---	1/2"	1/2"	3"	3"	FIAT: TS8-200 OR APPROVED EQUAL	FCT-MSB RMGD-MSB HOSE-MSB HGR-MSB
IMB	ICE MAKER HOOK-UP BOX, 20 GAUGE STEEL, WHITE POWDER COATED, ALL WELDED WATER TIGHT CONSTRUCTION, COLD WATER SUPPLY VALVE WITH 1/2" COPPER SWEAT INLET AND 1/4" COMPRESSION OUTLET AND WATER HAMMER ARRESTER.	N/A	WALL RECESSED	--	1/2"	N/A	N/A	N/A	GIYI GRAY: MB1H4AB OR APPROVED EQUAL	
WH	EXTERIOR WALL HYDRANT, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING, WITH INTEGRAL BACKFLOW PREVENTER, ALL BRONZE INTERIOR PARTS, 3/4" INLET, 3/4" HOSE THREAD OUTLET, STAINLESS STEEL FACE AND OPERATING KEY.	N/A	WALL RECESSED	--	3/4"	N/A	N/A	N/A	0	
EW-C-21	ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION, FILTERED, BARRIER-FREE, TYPE 304 STAINLESS STEEL BASIN, BRUSHED FINISH, VANDAL-RESISTANT BUBBLER, STAINLESS STEEL CABINET AND CANE APRON, LEAD-FREE WATERWAYS, SELF-CONTAINED SYSTEM (R-134A REFRIGERANT) DELIVERS MIN. 8 GPM OF 30°F WATER @ 80°F. INLET WATER AND 90°F AMBIENT AIR, 120V/1PH. BOTTLE FILLING STATION: ELECTRONIC SENSOR ACTIVATED WITH AUTOMATIC 20-SECOND SHUT-OFF TIMER AND BOTTLE COUNTER. DELIVERS MIN. 1 GPM FLOW RATE WITH LAMINAR FLOW. ANTI-MICROBIAL PLASTIC COMPONENTS.	YES	WALL SURFACE	SPOUT: 38" / 32" CHILDREN'S ADA SPOUT: 30"	1/2"	N/A	1-1/4"	2"	ELKAY: LZSTL02WSSK OR APPROVED EQUAL	
SH-1	SHOWER: SINGLE HANDLE PRESSURE BALANCED THERMOSTATIC MIXING VALVE WITH CERAMIC CARTRIDGE, INTEGRAL VOLUME CONTROL, ADJUSTABLE TEMPERATURE LIMIT STOP, TWO SERVICE STOPS/CHECK STOPS, TWO-WAY BRASS DIVERTER VALVE, SHOWER HEAD WITH INTEGRAL 2.5 GPM @ 80 PSI FLOW CONTROL, ADJUSTABLE PATTERN, ARM AND WALL FLANGE, HAND HELD SHOWER WITH 89" FLEXIBLE METAL HOSE, 3/2" MOUNTING SLIDE BAR/WALL CONNECTION, ALL EXPOSED METALLIC TRIM IS POLISHED CHROME PLATED NICKEL.	YES	WALL	VALVE: 38" TO 48" (OPTIONAL)	1/2"	1/2"	3"	3"	DELTA: T11TH155-25 OR APPROVED EQUAL	FD-SH TSI-FD
SH-2	SHOWER: SINGLE HANDLE PRESSURE BALANCED THERMOSTATIC MIXING VALVE WITH CERAMIC CARTRIDGE, INTEGRAL VOLUME CONTROL, ADJUSTABLE TEMPERATURE LIMIT STOP, TWO SERVICE STOPS/CHECK STOPS, BUILT-IN REVERSE CONNECTION, SHOWER HEAD WITH INTEGRAL 1.75 GPM @ 80 PSI FLOW CONTROL, ADJUSTABLE PATTERN, ARM FLANGE, ALL EXPOSED METALLIC TRIM IS POLISHED CHROME PLATED NICKEL.	NO	WALL	VALVE: 38" TO 48" (OPTIONAL)	1/2"	1/2"	3"	3"	DELTA: T11TH125 OR APPROVED EQUAL	FD-SH TSI-FD

NOTES:

- SUPPLY STOPS: CHROME-PLATED-BRASS, ONE-QUARTER TURN, BALL-TYPE OR COMPRESSION VALVE WITH INLET MATCHING SUPPLY PIPING.
- FLEXIBLE CONNECTIONS: ASME A112.18.6 BRAIDED- OR CORRUGATED-STAINLESS STEEL, FLEXIBLE HOSE RISER.
- SUPPORT CARRIERS: ASME A112.6.1M TYPE 1 (URINALS) OR TYPE 2 (CONCEALED ARM FOR LAVATORIES) WITH RECTANGULAR STEEL UPRIGHTS, COUPLING, SEAL, AND MOUNTING HARDWARE.
- A.D.A. LAVATORIES & SINKS: PROTECT DRAIN AND SUPPLY LINES WITH "TRAP WRAP" OR APPROVED EQUAL.
- EXTRA MAINTENANCE MATERIALS: FURNISH TWO (2) FLUSHOMETER-VALVE REPAIR KITS FOR EACH TYPE OF FLUSHOMETER VALVE INSTALLED.



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Submittal				
Phase	Date	Drw	Chk	
DESIGN DEVELOPMENT	02-28-25	SPD	RDR	
50% CD	04-15-25	SPD	RDR	
100% CD	07-18-25	SPD	RDR	

Revision		
#	Description	Date

CRA Project # 24029
Phase: CONSTRUCTION
DOCUMENTS

SHEET TITLE
SCHEDULES

WATER HAMMER ARRESTERS

GROUPED FIXTURES

P.D.I. UNITS	A	B	C	D	E	F
FIXTURE UNITS	1-3	1-11	12-32	33-50	51-113	114-154

RULE 1 - MULTIPLE FIXTURES NOT EXCEEDING 20 FT.

MAIN OR RISER

UP TO 20 FT.

TYPICAL BRANCH LINE

POINT OF RELIEF ①

SELECTION METHOD:
USING TABLE 1, SIZE UNIT "X" FOR THE TOTAL FIXTURE UNITS OF BRANCH LINE.

RULE 2 - MULTIPLE FIXTURES EXCEEDING 20 FT.

POINT OF RELIEF

OVER 20 FT.

TYPICAL BRANCH LINE

MAIN OR RISER

POINT OF RELIEF ①

SELECTION METHOD:
SIZE UNIT "X" AND UNIT "Y" SO THE SUM OF THE RATINGS IS EQUAL TO OR GREATER THAN TOTAL FIXTURE UNITS OF BRANCH LINE.

COMBINATION OF RULE 1 AND RULE 2

UP TO 20 FT.

OVER 20 FT.

POINT OF RELIEF

MAIN OR RISER

POINT OF RELIEF ①

SELECTION METHOD:
USING TABLE 1, SIZE UNIT "X" FOR BRANCH 1 BASE ON RULE 1. SIZE UNITS "Y" AND "Z" BASED ON RULE 2.

LONG RUNS

LENGTH OF PIPE (FT.)	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
25	A	A	B	C	D	E
50	A	B	C	D	E	F
75	B	C	D	AB	F	EF
100	C	D	E	F	CF	FF
125	C	D	F	AF	EF	FFF
150	D	E	F	DF	FF	FFF

TABLE 2A - WATER PRESSURES 65 P.S.I.G. TO 85 P.S.I.G.

P.D.I. WATER HAMMER ARRESTERS	P.D.I. WATER HAMMER ARRESTERS
1-3	1-11
12-32	33-50
51-113	114-154

TABLE 2B - WATER PRESSURES 85 P.S.I.G. TO 105 P.S.I.G.

LENGTH OF PIPE (FT.)	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
25	B	B	B	D	E	F
50	B	C	C	E	F	CF
75	C	D	D	F	CF	FF
100	D	E	E	CF	EF	EFF
125	D	E	E	CF	FF	EFF
150	E	F	F	FF	FF	FFFF

NOTE:
LOCATE WHA AS CLOSE AS POSSIBLE TO POINT OF CLOSURE

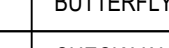
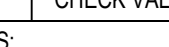
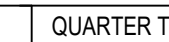





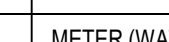





LONG RUN OF PIPING

POINT OF CLOSURE ①

OUTLET

SELECTION METHOD:
USING EITHER TABLE 2 OR 2A (BASED ON SYSTEM PRESSURE), SIZE UNIT "X" BASED ON SIZE OF PIPE AND LENGTH OF RUN.

GENERAL NOTE:
PROVIDE WATER HAMMER ARRESTERS IN ACCORDANCE WITH STANDARD PDH-WH201

VALUES		PERFORMANCE CODES AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION	
	BALL VALVE (WITH QUARTER TURN HANDLE)	1. ASHRAE	
	BUTTERFLY VALVE (WITH QUARTER TURN HANDLE)	a. STANDARD 15	SAFETY STANDARD FOR REFRIGERATION SYSTEMS - 2019
	CHECK VALVE	b. STANDARD 15	THERMAL ENVIRONMENTAL CONDITIONS FOR HUMAN OCCUPANCY - 2017
VALVE ACTUATORS:		c. STANDARD 62.1	VENTILATION STANDARD FOR ACCEPTABLE INDOOR AIR QUALITY - 2019
	QUARTER TURN LEVER	d. STANDARD 90.1	ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS - 2019
MEASUREMENTS AND CONTROLS		e. STANDARD 170	VENTILATION OF HEALTH CARE FACILITIES - 2017
	PRESSURE GAUGE AND ISOLATION VALVE	2. ASME	
	MEMORY STOP FLOW CONTROL VALVE (NUMBER INDICATES FLOW IN GPM)	a. ASME A17.1	SAFETY CODE FOR ELEVATORS AND ESCALATORS - 2019
	THERMOMETER	3. OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (OSHA)	
	METER (WATER OR GAS)	4. NATIONAL FIRE CODES	
MISCELLANEOUS		a. NFPA 1	FIRE CODE - 2021 (FLORIDA EDITION)
	HINGED CEILING ACCESS PANEL	b. NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS - 2019
	MINIMUM INVERT ELEVATION BELOW REFERENCE ELEVATION	c. NFPA 25	STANDARD FOR THE INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS - 2020
	POINT OF CONNECTION, PLUMBING TO CIVIL	d. NFPA 70	NATIONAL ELECTRICAL CODE - 2020
	SMOKE RATED WALL	e. NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE - 2019
	1 HOUR FIRE RATED WALL	f. NFPA 90A	STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS - 2021
	2 HOUR FIRE RATED WALL	g. NFPA 90B	STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS - 2021
		h. NFPA 91	STANDARD FOR THE INSTALLATION OF BLOWER AND EXHAUST SYSTEMS - 2020
		i. NFPA 101	LIFE SAFETY CODE - 2021 (FLORIDA EDITION)
		5. FLORIDA BUILDING CODE - 2023 8th EDITION	
		a. BUILDING CODE	
		b. ENERGY CONSERVATION CODE	
		c. MECHANICAL CODE	
		d. PLUMBING CODE	
		e. ACCESSIBILITY CODE	
		6. FLORIDA STATUTES	
		a. CHAPTER 471	ENGINEERING
		b. CHAPTER 533.90	BUILDING CONSTRUCTION STANDARDS; FLORIDA BUILDING CODE - ENFORCEMENT
		7. FLORIDA ADMINISTRATIVE CODE	
		a. CHAPTER 6A-2	EDUCATIONAL FACILITIES
		b. CHAPTER 61C-6	FLORIDA ELEVATOR SAFETY CODE
		c. CHAPTER 61G-15.34	RESPONSIBILITY RULES OF PROFESSIONAL ENGINEERS CONCERNING THE DESIGN OF MECHANICAL SYSTEMS
		d. CHAPTER 69A-3	FIRE PREVENTION - GENERAL PROVISIONS
		e. CHAPTER 69A-47	UNIFORM FIRE SAFETY STANDARDS FOR ELEVATORS
		f. CHAPTER 69A-60	THE FLORIDA FIRE PREVENTION CODE

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**2**

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**FLORIDA
SHERIFFS YOUTH
LEARNING
CENTER AND
BLACKBURN-HUNT
BUILDING**

MAHAN DRIVE
TALLAHASSEE, FL.



Clemons, Rutherford, &
Associates, Inc.

Architects
Planners
Interior Designers
Construction Managers

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Submittal				
Phase	Date	Drw	Chk	
DESIGN DEVELOPMENT	02-28-25	SPD	RDR	
50% CD	04-15-25	SPD	RDR	
100% CD	07-18-25	SPD	RDR	
Revision				
#	Description	Date		

CRA Project #	24029
---------------	-------

Phase: **CONSTRUCTION DOCUMENTS**

SHEET TITLE
**BLACKBURN-HUNT
BUILDING - WASTE**

P1.4



Florida Registry #2485
Robert D. Richards, P.E. #90048

LAHAN DRIVE
TALLAHASSEE, FL.

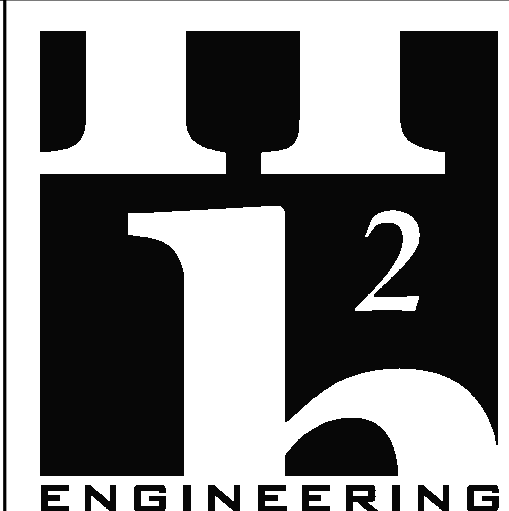


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Revision	
Description	Date

SHEET TITLE
**BLACKBURN-HUNT
BUILDING - 2ND FLOOR
ADD ALT. - WASTE
01.4A**





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BUILDING**

MAHAN DRIVE
TALLAHASSEE, FL.



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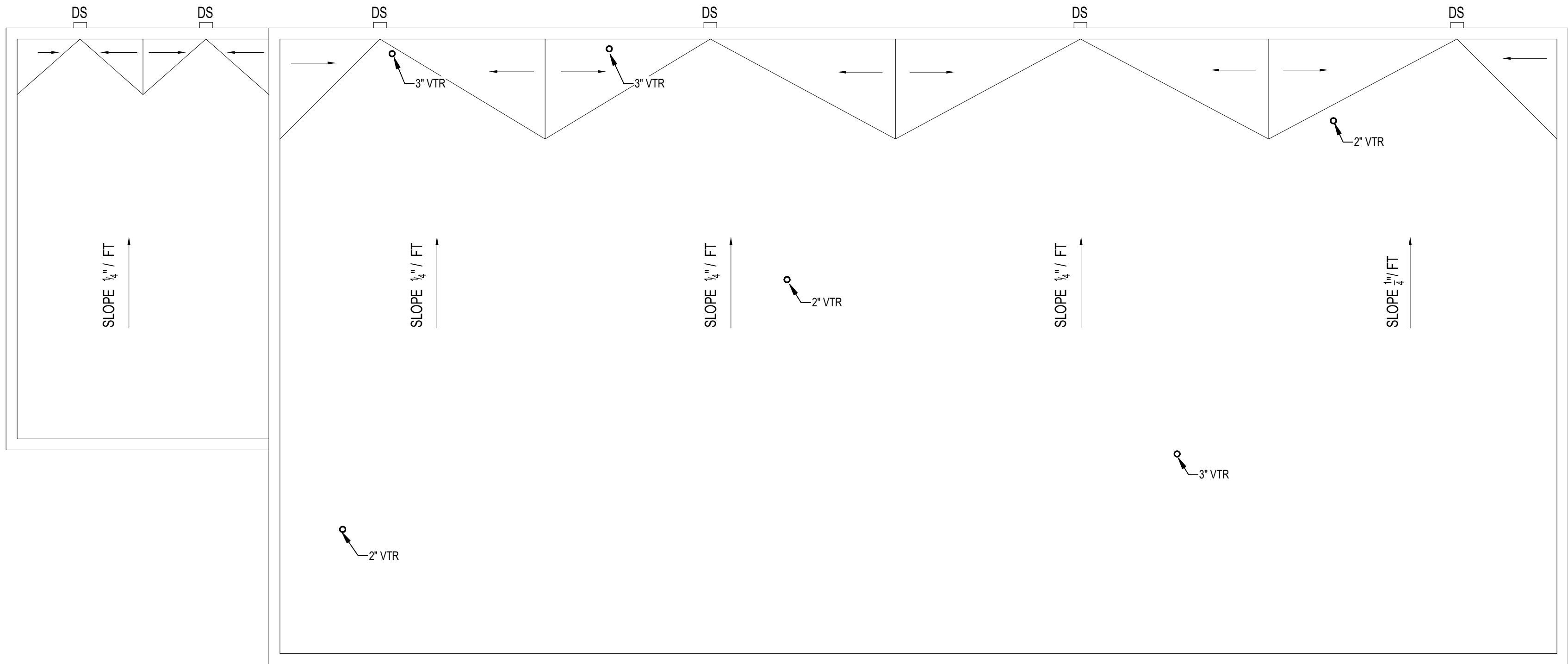
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Phase	Date	Drw	Chk	
DESIGN DEVELOPMENT	02-28-25	SPD	RDR	
50% CD	04-15-25	SPD	RDR	
100% CD	07-18-25	SPD	RDR	

Revision		
#	Description	Date

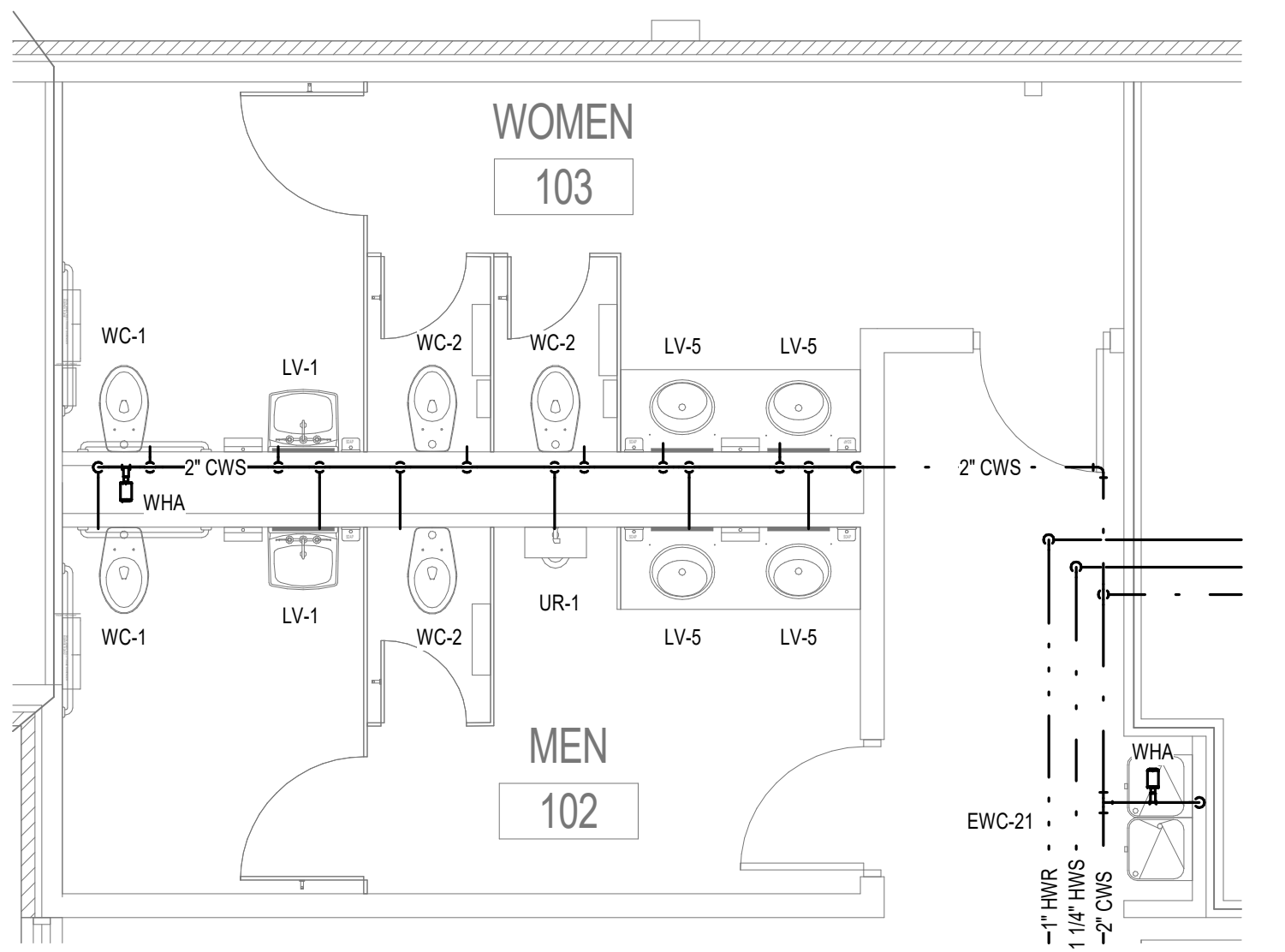
CRA Project # **24029**

Phase: **CONSTRUCTION
DOCUMENTS**

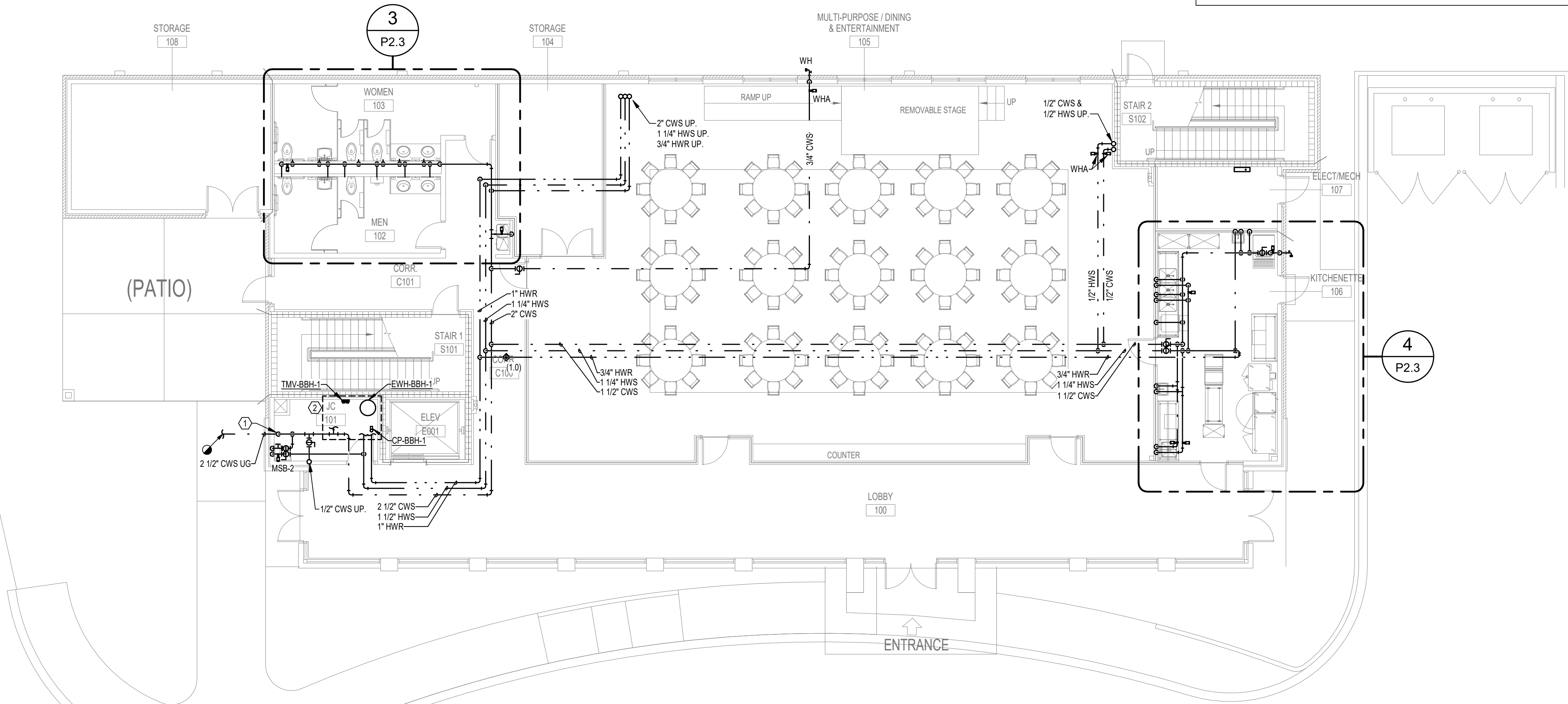
SHEET TITLE
**BLACKBURN-HUNT
BUILDING - ROOF PLAN -
ADD ALT.
P1.5A**



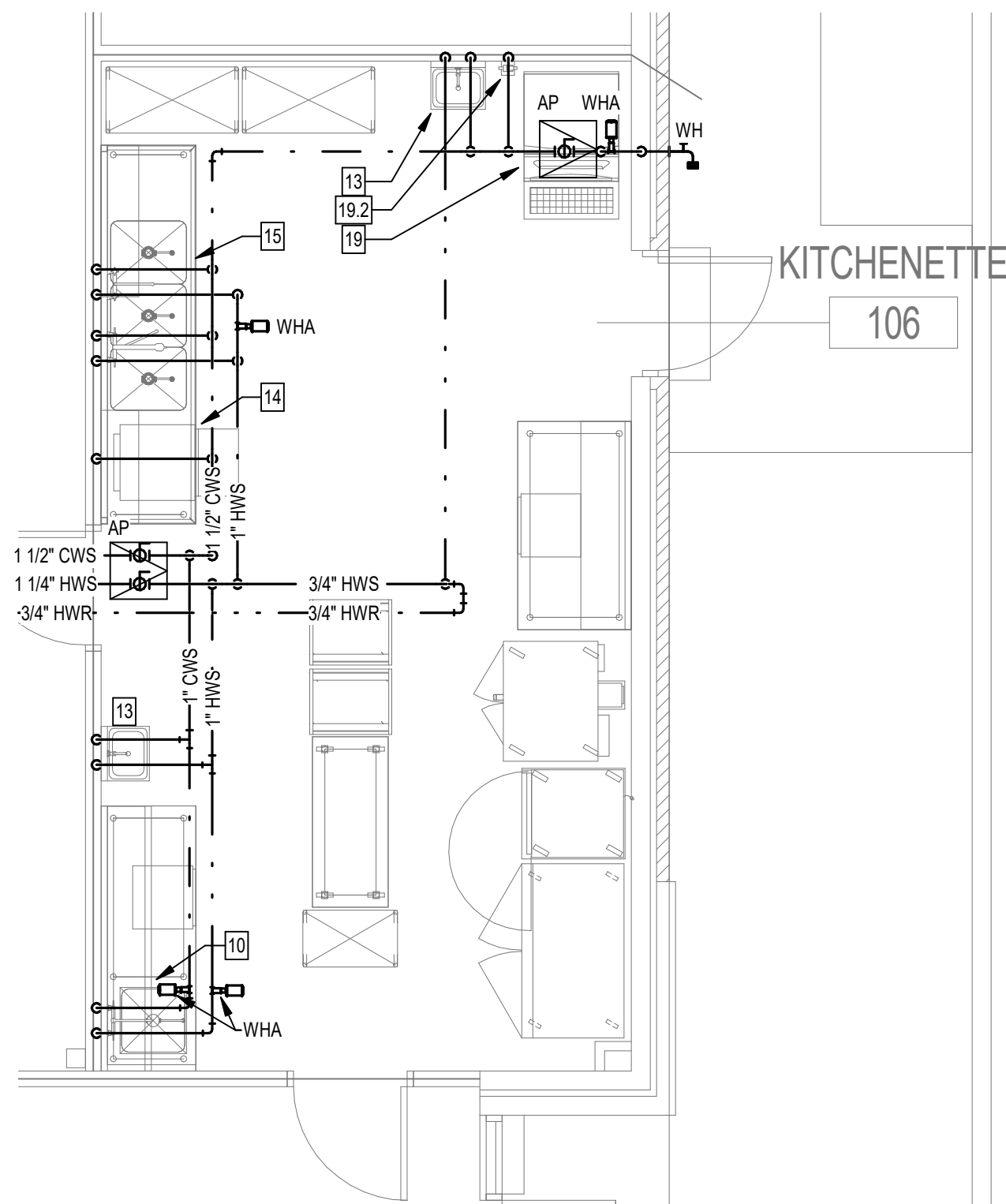
1 **ROOF PLAN - ADD ALTERNATE**
1/8" = 1'-0"



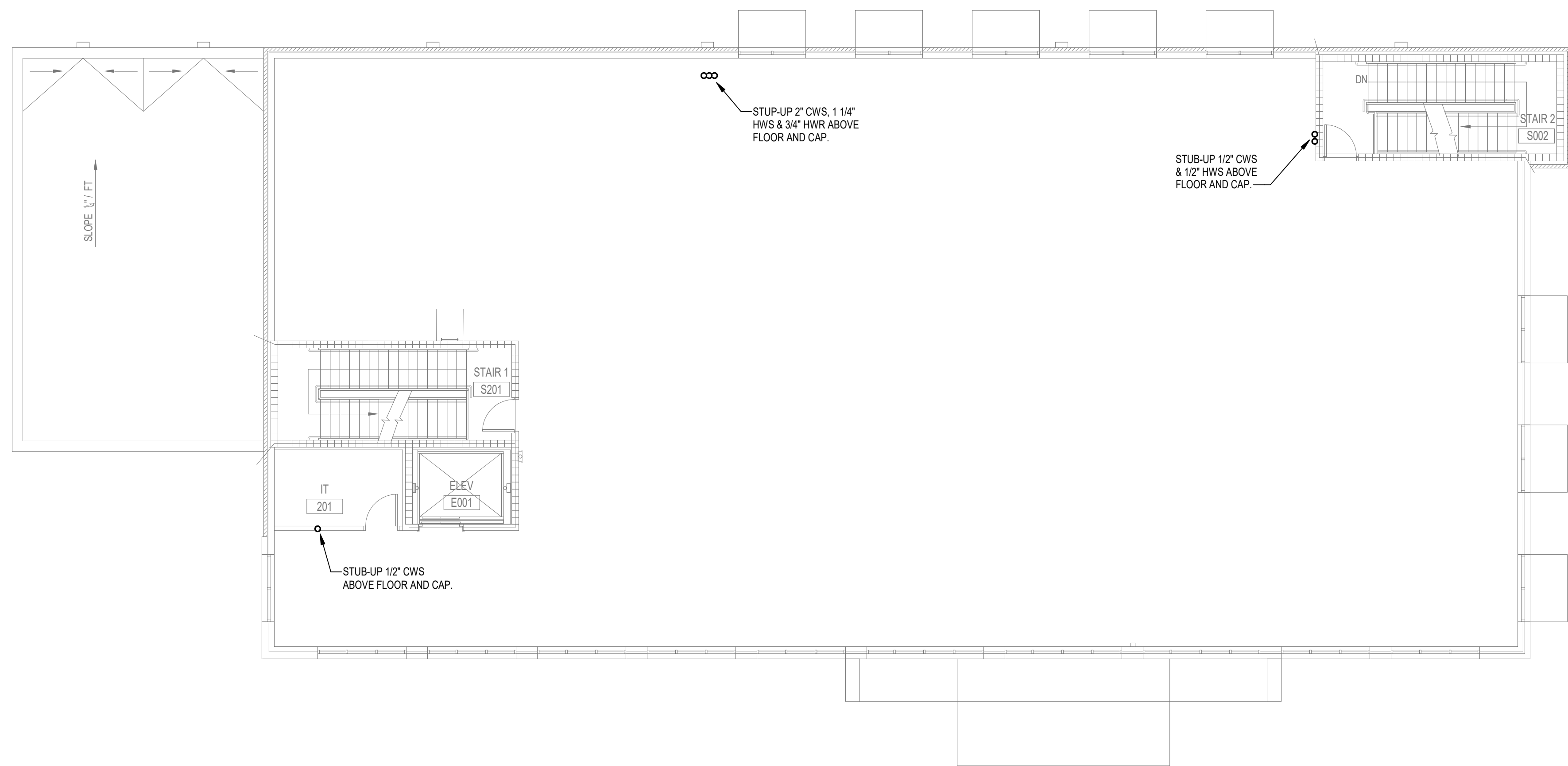
3 ENLARGED FIRST FLOOR PLAN - SUPPLY
1/4" = 1'-0"



1 FIRST FLOOR PLAN - SUPPLY
1/8" = 1'-0"



4 ENLARGED KITCHEN PLAN - SUPPLY
1/4" = 1'-0"



2 SECOND FLOOR PLAN - SUPPLY
1/8" = 1'-0"

FOOD SERVICE EQUIPMENT SCHEDULE

BY DIVISION 11					BY DIVISION 22					REMARKS
EQUIP. TAG	EQUIPMENT (NOTE 1)	QTY.	CWS PIPE SIZE	HWS PIPE SIZE	WASTE PIPE SIZE	WASTE CONNECTION	GAS PIPE SIZE	GAS MBH	ACCESSORIES (NOTE 2)	
10	1 COMPARTMENT PREP TABLE W/SINK	1	1/2"	1/2"	1 1/2"	INDIRECT	-	-		
13	HAND SINK	2	1/2"	1/2"	1 1/2"	DIRECT	-	-		
14	UNDERCOUNTER DISH MACHINE	1	1/2"	-	5/8"	INDIRECT	-	-		
15	3 COMPARTMENT SINK	1	3/4"	3/4"	1 1/2"	INDIRECT	-	-		FUTURE PURCHASE
19	ICE MACHINE	1	1/2"	1/2"	2"	INDIRECT	-	-		
19.2	WATER FILTER	1	3/8"	-	3/4"	-	-	-		

NOTES:
1 SEE FOOD SERVICE DRAWINGS FOR MORE INFORMATION ON FIXTURES AND ACCESSORIES.

KEYED NOTES:

- ① WATER SERVICE ENTRANCE. SEE DETAILS B&F/P5.1.
- ② FLOOR MOUNT EWH-BBH-1. SEE DETAIL AP5.1 FOR WATER HEATER AND TMV PIPING.
- ③ ROUTE HWS DOWN/UP IN WALL TO/FROM WITHIN 2 FEET OF LAVATORY AS INDICATED.
- ④ ROUTE HWR TO/FROM CHASE TO/FROM ABOVE CEILING HWR PIPING AS INDICATED.



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Submittal			
Phase	Date	Drw	Chk
DESIGN DEVELOPMENT	02-28-25	SPD	RDR
50% CD	04-15-25	SPD	RDR
100% CD	07-18-25	SPD	RDR

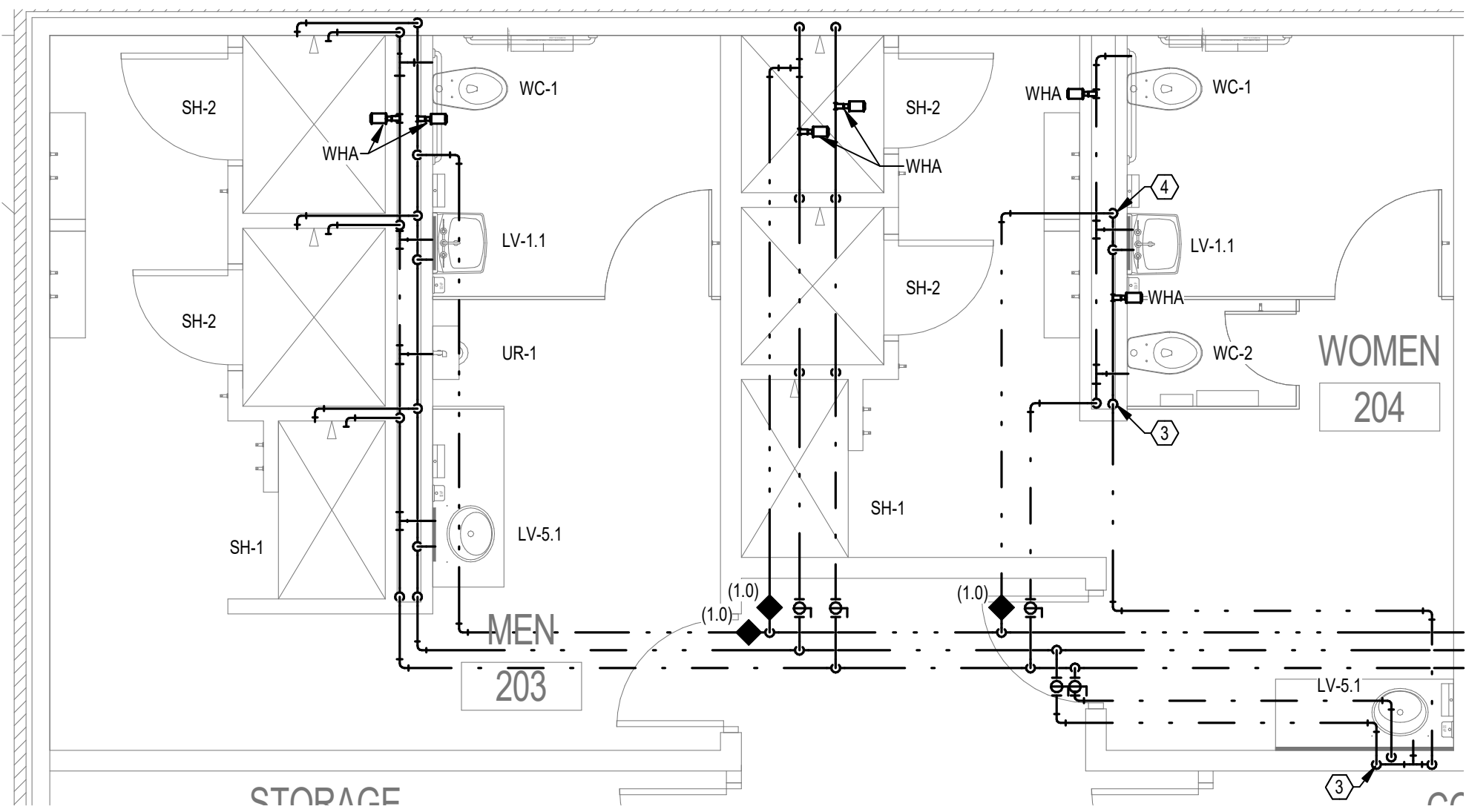
Revision		
#	Description	Date

CRA Project # **24029**

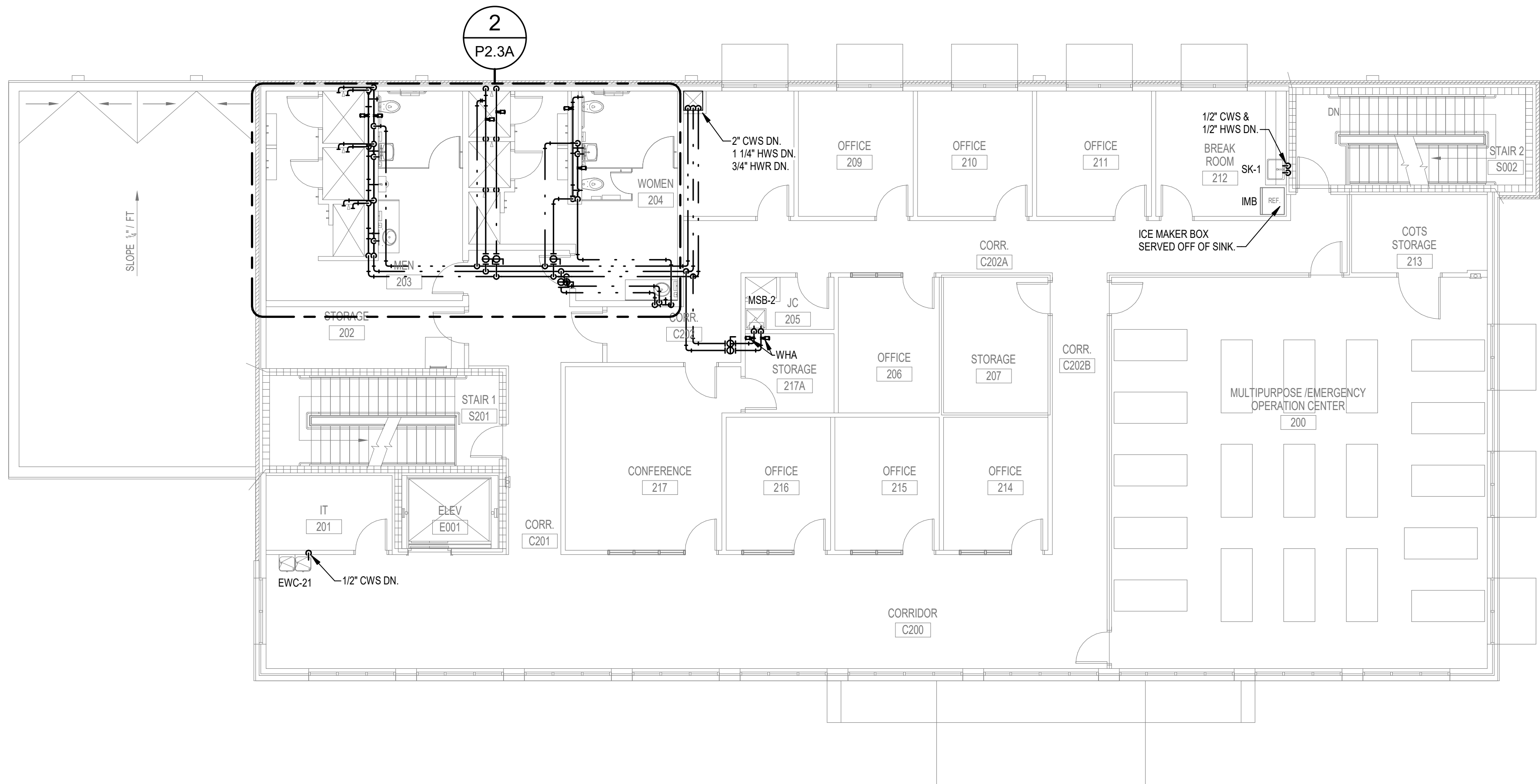
Phase: **CONSTRUCTION DOCUMENTS**

SHEET TITLE
BLACKBURN-HUNT BUILDING - SUPPLY

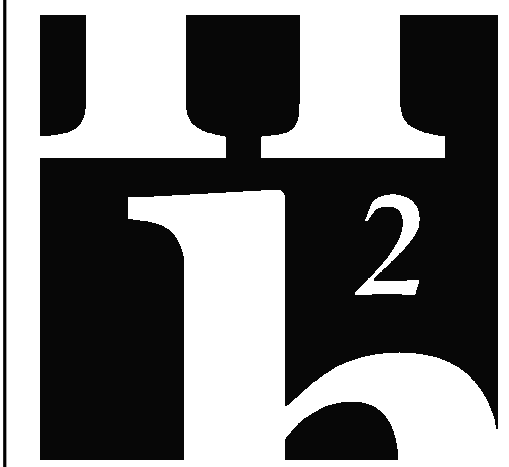
P2.3



 **2** ENLARGED SECOND FLOOR PLAN - ADD ALTERNATE - SUPPLY
1/4" = 1'-0"



 **1** SECOND FLOOR PLAN - ADD ALTERNATE - SUPPLY
1/8" = 1'-0"



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Submittal			
Phase	Date	Drw	Chk
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50% CD	04-15-25	SPD	RDR
100% CD	07-18-25	SPD	RDR

Revision		
#	Description	Date

CRA Project # **24029**

Phase: **CONSTRUCTION
DOCUMENTS**

SHEET TITLE
**BLACKBURN-HUNT
BUILDING - 2ND FLOOR
ADD ALT. - SUPPLY
P2.3A**



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TALLAHASSEE, FL.



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[illegible]Phase: **CONSTRUCTION DOCUMENTS**

P3.2





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[illegible]

Phase: **CONSTRUCTION DOCUMENTS**

P3.4

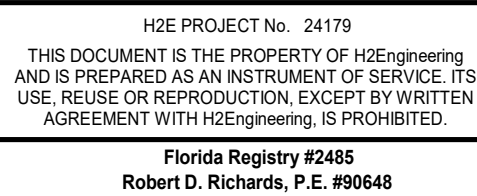


FIXTURE TYPE		QUANTITY	WASTE		SUPPLY						
					COLD		HOT		TOTAL		
			UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	
	DRINKING FOUNTAIN	2	0.5	1	0.25	0.5			0.25	0.5	
	LAVATORY (COLD WATER)	6	1	6	2	12			2	12	
	LAVATORY (HOT WATER)	4	1	4	1.5	6	1.5	6	2	8	
	SINK	1	2	2	2	2	2	2	3	3	
	MOP SERVICE BASIN	2	2	4	2.25	4.5	2.25	4.5	3	6	
	URINAL (3/4" VALVE)	2	4	8	5	10			5	10	
	WATER CLOSET (FLUSH VALVE)	8	6	48	10	80			10	80	
	SHOWER (PER HEAD)	6	2	12	3	18	3	18	4	24	
	HOSE BIBB / WALL HYDRANT	4			4	16			4	16	
	FLOOR DRAIN	11	2	22							
	REFRIGERATOR / ICE MAKER	1			1	1			1	1	
	KITCHEN FIXTURES										
	DISHWASHER	1	15	15			6	6	6	6	
	TRIPLE POT SINK	1	4	4	6	6	6	6	8	8	
	PREP SINK	1	4	4	2.5	2.5	2.5	2.5	3	3	
HAND SINK	2	2	4	2.5	5	2.5	5	3	6		
FLOOR SINK	1	2	2								
TOTAL FIXTURE UNITS				136		164		50		184	
DOMESTIC WATER DEMAND (GPM)						81.8		12.0		86.3	

DESIGNATION			TMV-BBH-1
	APPLICATION		MED / LOW
	SET POINT	"F	110
	MINIMUM FLOW	GPM	0.5
	MAXIMUM FLOW	GPM	3.5
	PRESSURE DROP @ MAX FLOW	PSI	5
	RECIRCULATED SYSTEM		YES
	ASSE COMPLIANCE		1017
MANUFACTURER			LAWLER
MODEL NUMBER			61-15
DETAIL REFERENCE			AP/5.1
NOTES:			
1	PROVIDE ROUGH BRASS FINISH		

DESIGNATION		CP-BBH-1
	SERVICE	DHW
	CAPACITY	4
	TOTAL DYNAMIC HEAD	FT. 27
	SHUT-OFF HEAD	FT. 35
	PUMP SEAL	MECHANICAL
	MOTOR SPEED	RPM 3,250
	MOTOR HORSEPOWER	HP 1/8
	MOTOR WINDING	FULL
	ELECTRICAL CHARACTERISTICS	V / PH 120 / 1
	NOTES	1
MANUFACTURER		TACO
MODEL NUMBER		009-SF5
DETAIL REFERENCE		AP5.1
<u>NOTES:</u>		
1	PROVIDE TACO 00 TIMER/AQUASTAT WITH 7 DAY DIGITAL PROGRAMMABLE TIMER. SET TIMER FOR ALLOWABLE OPERATION DURING OCCUPIED HOURS AND AQUASTAT TO CYCLE PUMP.	
2	PLUMBING CONTRACTOR TO COORDINATE INSTALLATION OF TIMER AND AQUASTAT WITH ELECTRICAL CONTRACTOR AND INSTALL PER MANUFACTURER INSTRUCTIONS.	

DESIGNATION			EVH-BBH-1
	STORAGE	GAL	80
	HEATING ELEMENT INPUT	KW	4.0
	NUMBER OF ELEMENTS	#	6
	SIMULTANEOUS OPERATION OF ELEMENTS		YES
	TOTAL HEATING INPUT	KW	24.0
	ENTERING WATER TEMPERATURE	*F	60
	LEAVING WATER TEMPERATURE	*F	140
	TEMPERATURE RISE	*F	80
	RECOVERY RATE	GPH	123
	ELECTRICAL CHARACTERISTICS	V / PH	208 / 3
	MINIMUM CIRCUIT AMPACITY	AMPS	83
	MAXIMUM OVERCURRENT PROTECTION	AMPS	90
	MANUFACTURER		A.O. SMITH
MODEL NUMBER		DVE-80A-24	
DETAIL REFERENCE		AP/5.1	
NOTES:			
1	PROVIDE LOW WATER CUT-OFF		
2	PROVIDE ASME TANK		



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50% CD	04-15-25	SPD	RDR
100% CD	07-18-25	SPD	RDR

[illegible]

CRA Project # 24029

Phase: **CONSTRUCTION DOCUMENTS**

P4.1

PLUMBING FIXTURE ACCESSORY SCHEDULE

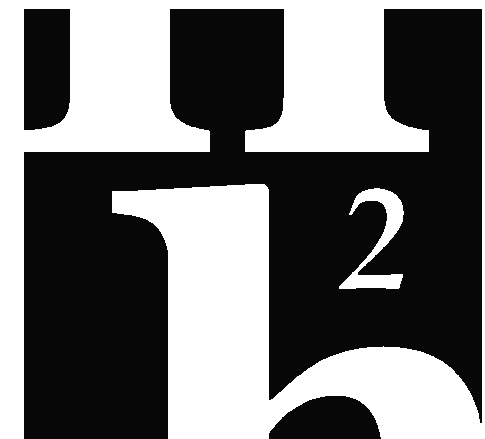
ACCESSORY TAG	ACCESSORY DESCRIPTION	MANUFACTURER AND MODEL NUMBER
DR-LV-C	1-1/4" CHROME PLATED BRASS OFFSET DRAIN WITH TAIL PIECE. PROVIDE A PERFORATED FLAT CHROME BRASS STRAINER.	ELKAY: LKAD174 OR APPROVED EQUAL
DR-SK-STD	TYPE 304 STAINLESS STEEL DRAIN, REMOVABLE CONICAL STRAINER BASKET, 1-1/2" STAINLESS STEEL OFFSET TAILPIECE.	ELKAY: LK35LK33LKAD35 OR APPROVED EQUAL
FCT-LV-0.5-AUTO-B	SINGLE INLET, DECK MOUNTED FAUCET, A.D.A. COMPLIANT, 4" CENTERSET, POLISHED CHROME PLATED BRASS, LEAD FREE, BATTERY POWERED, SENSOR OPERATED, 0.5 GPM AERATOR WITH PRESSURE COMPENSATING FLOW CONTROL.	AMERICAN STANDARD: 605B.205 OR APPROVED EQUAL
FCT-LV-0.5-AUTO-W	SINGLE INLET, DECK MOUNTED FAUCET, A.D.A. COMPLIANT, 4" CENTERSET, POLISHED CHROME PLATED BRASS, LEAD FREE, HARDWIRED, SENSOR OPERATED, 0.5 GPM AERATOR WITH PRESSURE COMPENSATING FLOW CONTROL. PROVIDE 10'-0" EXTENSION CABLE, Y-CONNECTOR, AND ONE TRANSFORMER FOR UP TO 10 FAUCETS OR FLUSH VALVES.	AMERICAN STANDARD: 605B.205 OR APPROVED EQUAL
FCT-MSB	SERVICE SINK FAUCET, POLISHED CHROME PLATED BRASS, BUILT-IN STOPS, VACUUM BREAKER, LEVER HANDLES, WALL BRACE, 3/4" HOSE OUTLET.	T&S BRASS: B-0655-BSTP OR APPROVED EQUAL
FCT-SK-1.5-GEN-SPRAY	SINGLE LEVER DECK MOUNTED FAUCET, POLISHED CHROME PLATED BRASS, 9" SWING SPOUT, 1.5 GPM AT 80 PSI AERATOR, HOSE AND SPRAY, SOFT-CLOSING VALVE WITH INTEGRAL FLOW CONTROL AND ADJUSTABLE STOP TO RESTRICT EXTREME TEMPERATURES. PROVIDE COVER PLATE.	T&S BRASS: B-2730 OR APPROVED EQUAL
FD-SH	FLOOR DRAIN FOR SHOWER, 2" OUTLET	0
FV-0.125-AUTO-B	EXPOSED AUTOMATIC URINAL FLUSH VALVE, A.D.A. COMPLIANT, POLISHED CHROME PLATED, 0.125 GPF, BATTERY POWERED, SENSOR OPERATED, 3/4" SCREWDRIWER ANGLE STOP, VACUUM BREAKER, CAST WALL FLANGE.	AMERICAN STANDARD: 6063.013.002 OR APPROVED EQUAL
FV-1.6-AUTO-B	EXPOSED AUTOMATIC WATER CLOSET FLUSH VALVE, A.D.A. COMPLIANT, POLISHED CHROME PLATED, 1.6 GPF, BATTERY POWERED, SENSOR OPERATED, 1" SCREWDRIWER ANGLE STOP, VACUUM BREAKER, CAST WALL FLANGE.	AMERICAN STANDARD: 6065.161.002 OR APPROVED EQUAL
HGR-MSB	STAINLESS STEEL HANGER, WITH THREE RUBBER TOOL GRIPS.	FIAT: 8880C OR APPROVED EQUAL
HOSE-MSB	HEAVY DUTY, FLEXIBLE HOSE, 5/8" RUBBER, CLOTH REINFORCED, 3/4" BRASS COUPLING, TYPE 302 STAINLESS STEEL BRACKET WITH RUBBER GRIP.	FIAT: 832AA OR APPROVED EQUAL
RMGD-MSB	ALUMINUM RIM GUARD.	FIAT: 1229BB OR APPROVED EQUAL
SEAT-OPN-FRT	EXTRA HEAVY DUTY, OPEN FRONT, ELONGATED SEAT, WITHOUT COVER, SOLID PLASTIC, SELF-SUSTAINING CHECK TYPE HINGE. HINGES SHALL MATCH SEAT COLOR. STAINLESS STEEL POSTS FITTED WITH STAINLESS STEEL WASHERS AND NUTS.	BEMIS: 1655SSCT OR APPROVED EQUAL
TMV-LV-95	EXPOSED ROUGH BRONZE, THERMOSTATIC MIXING VALVE, ADJUSTABLE LIMIT STOP, ASSE 1070, LISTED FOR POINT OF USE APPLICATION. SET OUTLET TEMPERATURE TO 95°F.	LAWLER: 570 OR APPROVED EQUAL
TMV-SK	EXPOSED ROUGH BRONZE, THERMOSTATIC MIXING VALVE, ADJUSTABLE LIMIT STOP, ASSE 1070, LISTED FOR POINT OF USE APPLICATION. SET OUTLET TEMPERATURE TO 110°F.	LAWLER: 570 OR APPROVED EQUAL
TR-LV	CAST BRASS ADJUSTABLE P-TRAP, TUBING OUTLET, 1-1/4" x 1-1/2", CLEANOUT PLUG, POLISHED CHROME PLATED FINISH.	ELKAY: LK530 OR APPROVED EQUAL
TR-SK-STD	CAST BRASS ADJUSTABLE P-TRAP, TUBING OUTLET, 1-1/2" x 1-1/2", CLEANOUT PLUG, POLISHED CHROME PLATED FINISH.	KOHLER: K-9000-CP OR APPROVED EQUAL
TSI-FD	POLYMER INLINE TRAP SEAL INSERT FOR SHOWER DRAIN, 2" OUTLET	JOSAM: 82040 OR APPROVED EQUAL

PLUMBING FIXTURE SCHEDULE

FIXTURE DESIGNATION	FIXTURE DESCRIPTION	A.D.A. COMPLIANT	MOUNTING METHOD	HEIGHT (A.F.F.)	ROUGH-IN PIPE SIZES				MANUFACTURER AND MODEL NUMBER	ACCESSORIES (SEE SCHEDULE)
					COLD WATER SUPPLY	HOT WATER SUPPLY	FIXTURE TRAP	FIXTURE DRAIN		
WC-1	FLUSH VALVE WATER CLOSET, HIGH EFFICIENCY (1.28 - 1.6 GPF) VITREOUS CHINA, SIPHON JET FLUSHING ACTION, ELONGATED RIM, 1-1/2" TOP SPUD, MIN. 2" BALLPASS TRAPWAY, COLOR: WHITE	YES	FLOOR	RIM: 16-1/2"	1"	N/A	4"	4"	AMERICAN STANDARD: 3043.001 OR APPROVED EQUAL	SEAT-OPN-FRT FV-1.6-AUTO-B
WC-2	FLUSH VALVE WATER CLOSET, HIGH EFFICIENCY (1.28 - 1.6 GPF) VITREOUS CHINA, SIPHON JET FLUSHING ACTION, ELONGATED RIM, 1-1/2" TOP SPUD, MIN. 2" BALLPASS TRAPWAY, COLOR: WHITE	NO	FLOOR	RIM: 15"	1"	N/A	4"	4"	AMERICAN STANDARD: 2234.001 OR APPROVED EQUAL	SEAT-OPN-FRT FV-1.6-AUTO-B
UR-1	FLUSH VALVE URINAL, ULTRA HIGH EFFICIENCY (0.125 - 1.0 GPF) VITREOUS CHINA, WASHOUT FLUSHING ACTION, 3/4" TOP SPUD, COLOR: WHITE	YES	WALL	RIM: 17"	3/4"	N/A	2"	2"	AMERICAN STANDARD: 6590.001 OR APPROVED EQUAL	FV-0.125-AUTO-B
LV-1	LAVATORY, 20"x18", VITREOUS CHINA, 3 FAUCET HOLES (ONE CENTERED, TWO 4" OFF CENTER), ANTI-SPLASH RIM AND HIGH BACK. COLOR: WHITE.	YES	WALL	RIM: 34"	1/2"	N/A	1-1/4"	2"	AMERICAN STANDARD: 0355.012 OR APPROVED EQUAL	FCT-LV-0.5-AUTO-B DR-LV-C TR-LV
LV-1.1	LAVATORY, 20"x18", VITREOUS CHINA, 3 FAUCET HOLES (ONE CENTERED, TWO 4" OFF CENTER), ANTI-SPLASH RIM AND HIGH BACK. COLOR: WHITE.	YES	WALL	RIM: 34"	1/2"	1/2"	1-1/4"	2"	AMERICAN STANDARD: 0355.012 OR APPROVED EQUAL	FCT-LV-0.5-AUTO-W DR-LV-C TR-LV TMV-LV-95
LV-5	LAVATORY, 20"x17" OVAL, VITREOUS CHINA, 3 FAUCET HOLES (ONE CENTERED, TWO 4" OFF CENTER), SELF-RIMMING. COLOR: WHITE.	YES	COUNTER TOP	SEE ARCH. PLANS	1/2"	N/A	1-1/4"	2"	AMERICAN STANDARD: 0440.444.EC OR APPROVED EQUAL	FCT-LV-0.5-AUTO-W DR-LV-C TR-LV
LV-5.1	LAVATORY, 20"x17" OVAL, VITREOUS CHINA, 3 FAUCET HOLES (ONE CENTERED, TWO 4" OFF CENTER), SELF-RIMMING. COLOR: WHITE.	YES	COUNTER TOP	SEE ARCH. PLANS	1/2"	1/2"	1-1/4"	2"	AMERICAN STANDARD: 0440.444.EC OR APPROVED EQUAL	FCT-LV-0.5-AUTO-W DR-LV-C TR-LV TMV-LV-95
SK-1	SINGLE COMPARTMENT SINK, SELF-RIMMING, 22"x19-1/2", 18"x14"x5-1/2" DEEP BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 4 FAUCET HOLES (ONE CENTERED, TWO 4" FROM CENTER, ONE 8" FROM CENTER), SOUND DEADENING COATING ON BOTTOM OF SINK.	YES	COUNTER TOP	SEE ARCH. PLANS	1/2"	1/2"	1-1/2"	2"	ELKAY: LRAD221955.4 OR APPROVED EQUAL	FCT-SK-1.5-GEN-SPRAY DR-SK-STD TR-SK-STD TMV-SK
SK-3	DOUBLE COMPARTMENT SINK, SELF-RIMMING, 33"x22", 16"x13-1/2"x5" DEEP BOWL(S), 18 GAUGE TYPE 302 STAINLESS STEEL, SATIN FINISH, 4 FAUCET HOLES (ONE CENTERED, TWO 4" FROM CENTER, ONE 8" FROM CENTER), SOUND DEADENING COATING ON BOTTOM OF SINK.	YES	COUNTER TOP	SEE ARCH. PLANS	1/2"	1/2"	1-1/2"	2"	ELKAY: LRAD332250 OR APPROVED EQUAL	FCT-SK-1.5-GEN-SPRAY DR-SK-STD TR-SK-STD TMV-SK
MSB-2	MCP SERVICE SINK BASIN, 24" x 24"W x 12"H, WITH 2" WIDE SHOULDERS, 1/4" PITCH TOWARD INSIDE, PRECAST TERRAZZO (MINIMUM 3,000 PSI @ 7 DAYS), SURFACE GROUND AND POLISHED WITH ALL HOLES AND PITS GROUTED AND WITH EXCESS REMOVED. COLOR: BLACK & WHITE MARBLE CHIPS IN GRAY PORTLAND CEMENT.	NO	FLOOR	---	1/2"	1/2"	3"	3"	FIAT: TSB-200 OR APPROVED EQUAL	FCT-MSB RMGD-MSB HOSE-MSB HGR-MSB
IMB	ICE MAKER HOOK-UP BOX, 20 GAUGE STEEL, WHITE POWDER COATED, ALL WELDED WATER TIGHT CONSTRUCTION, COLD WATER SUPPLY VALVE WITH 1/2" COPPER SWEAT INLET AND 1/4" COMPRESSION OUTLET AND WATER HAMMER ARRESTER.	N/A	WALL RECESSED	--	1/2"	N/A	N/A	N/A	GIJY GRAY: MB1H4AB OR APPROVED EQUAL	
WH	EXTERIOR WALL HYDRANT, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING, WITH INTEGRAL BACKFLOW PREVENTER, ALL BRONZE INTERIOR PARTS, 3/4" INLET, 3/4" HOSE THREAD OUTLET, STAINLESS STEEL FACE AND OPERATING KEY.	N/A	WALL RECESSED	--	3/4"	N/A	N/A	N/A	0	
EW-C-21	ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION, FILTERED, BARRIER-FREE, TYPE 304 STAINLESS STEEL BASIN, BRUSHED FINISH, VANDAL-RESISTANT BUBBLER, STAINLESS STEEL CABINET AND CANE APRON, LEAD-FREE WATERWAYS, SELF-CONTAINED SYSTEM (R-134A REFRIGERANT) DELIVERS MIN. 8 GPM OF 30°F WATER @ 80°F. INLET WATER AND 90°F AMBIENT AIR, 120V/1PH. BOTTLE FILLING STATION: ELECTRONIC SENSOR ACTIVATED WITH AUTOMATIC 20-SECOND SHUT-OFF TIMER AND BOTTLE COUNTER. DELIVERS MIN. 1 GPM FLOW RATE WITH LAMINAR FLOW. ANTI-MICROBIAL PLASTIC COMPONENTS.	YES	WALL SURFACE	SPOUT: 38" / 32" CHILDREN'S ADA SPOUT: 30"	1/2"	N/A	1-1/4"	2"	ELKAY: LZSTL02WSSK OR APPROVED EQUAL	
SH-1	SHOWER: SINGLE HANDLE PRESSURE BALANCED THERMOSTATIC MIXING VALVE WITH CERAMIC CARTRIDGE, INTEGRAL VOLUME CONTROL, ADJUSTABLE TEMPERATURE LIMIT STOP, TWO SERVICE STOPS/CHECK STOPS, TWO-WAY BRASS DIVERTER VALVE, SHOWER HEAD WITH INTEGRAL 2.5 GPM @ 80 PSI FLOW CONTROL, ADJUSTABLE PATTERN, ARM AND WALL FLANGE, HAND HELD SHOWER WITH 89" FLEXIBLE METAL HOSE, 38" MOUNTING SLIDE BAR/WALL CONNECTION, ALL EXPOSED METALLIC TRIM IS POLISHED CHROME PLATED NICKEL.	YES	WALL	VALVE: 38" TO 48" (OPTIONAL)	1/2"	1/2"	3"	3"	DELTA: T11TH155-25 OR APPROVED EQUAL	FD-SH TSI-FD
SH-2	SHOWER: SINGLE HANDLE PRESSURE BALANCED THERMOSTATIC MIXING VALVE WITH CERAMIC CARTRIDGE, INTEGRAL VOLUME CONTROL, ADJUSTABLE TEMPERATURE LIMIT STOP, TWO SERVICE STOPS/CHECK STOPS, BUILT-IN REVERSE CONNECTION, SHOWER HEAD WITH INTEGRAL 1.75 GPM @ 80 PSI FLOW CONTROL, ADJUSTABLE PATTERN, ARM FLANGE, ALL EXPOSED METALLIC TRIM IS POLISHED CHROME PLATED NICKEL.	NO	WALL	VALVE: 38" TO 48" (OPTIONAL)	1/2"	1/2"	3"	3"	DELTA: T11TH125 OR APPROVED EQUAL	FD-SH TSI-FD

NOTES:

- SUPPLY STOPS: CHROME-PLATED-BRASS, ONE-QUARTER TURN, BALL-TYPE OR COMPRESSION VALVE WITH INLET MATCHING SUPPLY PIPING.
- FLEXIBLE CONNECTIONS: ASME A112.18.6 BRAIDED- OR CORRUGATED-STAINLESS STEEL, FLEXIBLE HOSE RISER.
- SUPPORT CARRIERS: ASME A112.6.1M TYPE 1 (URINALS) OR TYPE 2 (CONCEALED ARM FOR LAVATORIES) WITH RECTANGULAR STEEL UPRIGHTS, COUPLING, SEAL, AND MOUNTING HARDWARE.
- A.D.A. LAVATORIES & SINKS: PROTECT DRAIN AND SUPPLY LINES WITH "TRAP WRAP" OR APPROVED EQUAL.
- EXTRA MAINTENANCE MATERIALS: FURNISH TWO (2) FLUSHOMETER-VALVE REPAIR KITS FOR EACH TYPE OF FLUSHOMETER VALVE INSTALLED.



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CENTER AND
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BUILDING

MAHAN DRIVE
TALLAHASSEE, FL.



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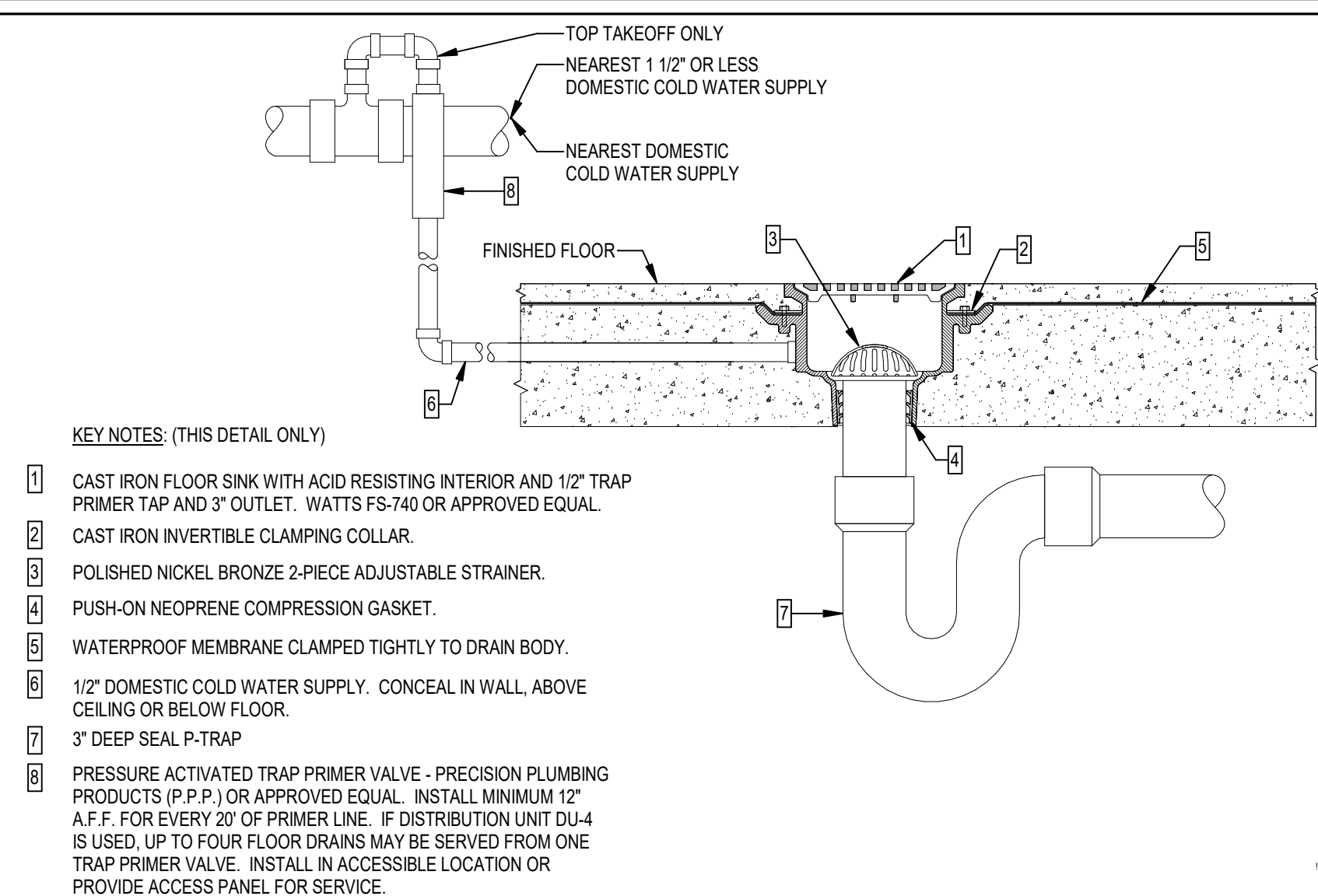
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Submittal				
Phase	Date	Drw	Chk	
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50% CD	04-15-25	SPD	RDR	
100% CD	07-18-25	SPD	RDR	

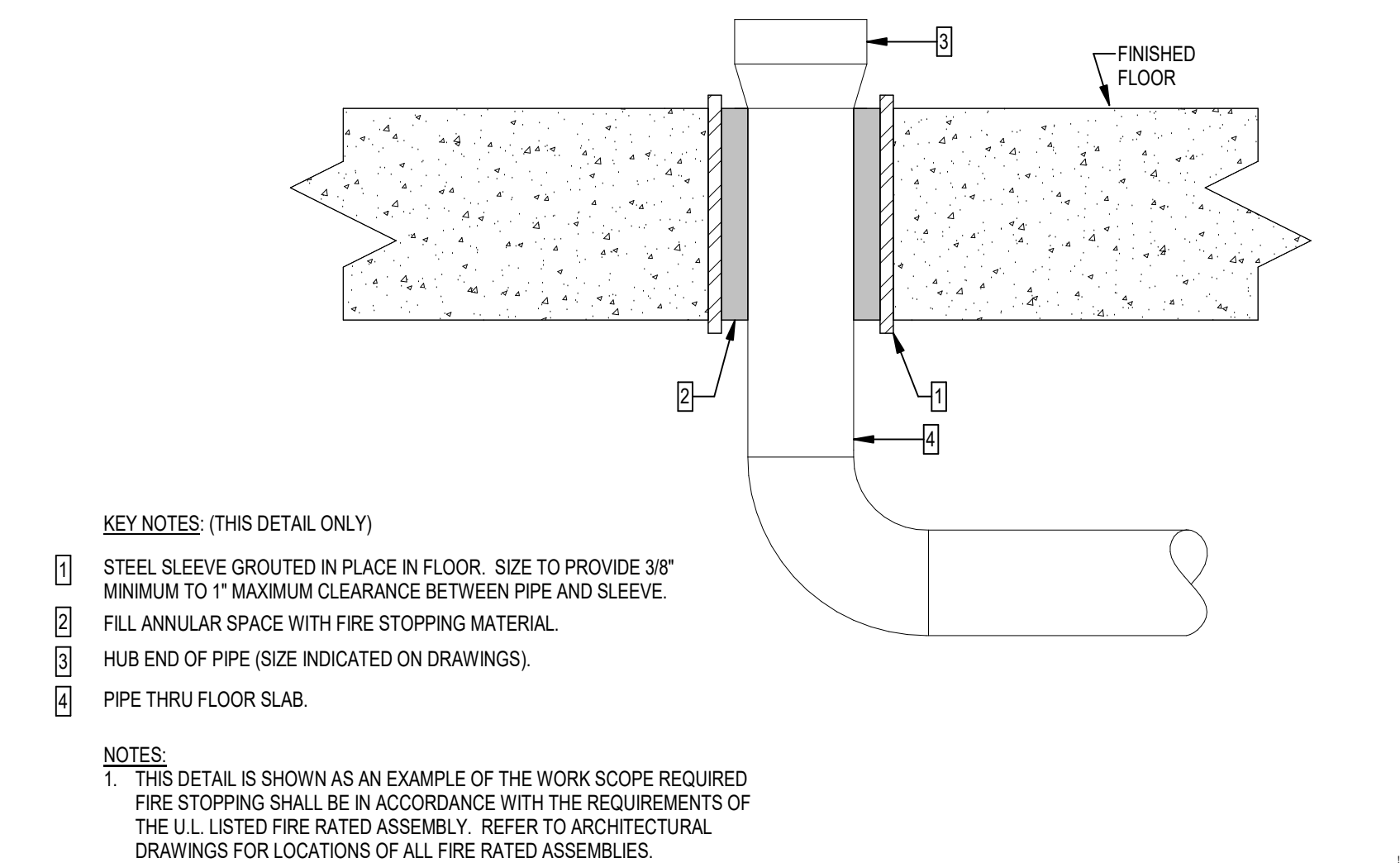
Revision		
#	Description	Date

CRA Project # 24029
Phase: CONSTRUCTION
DOCUMENTS

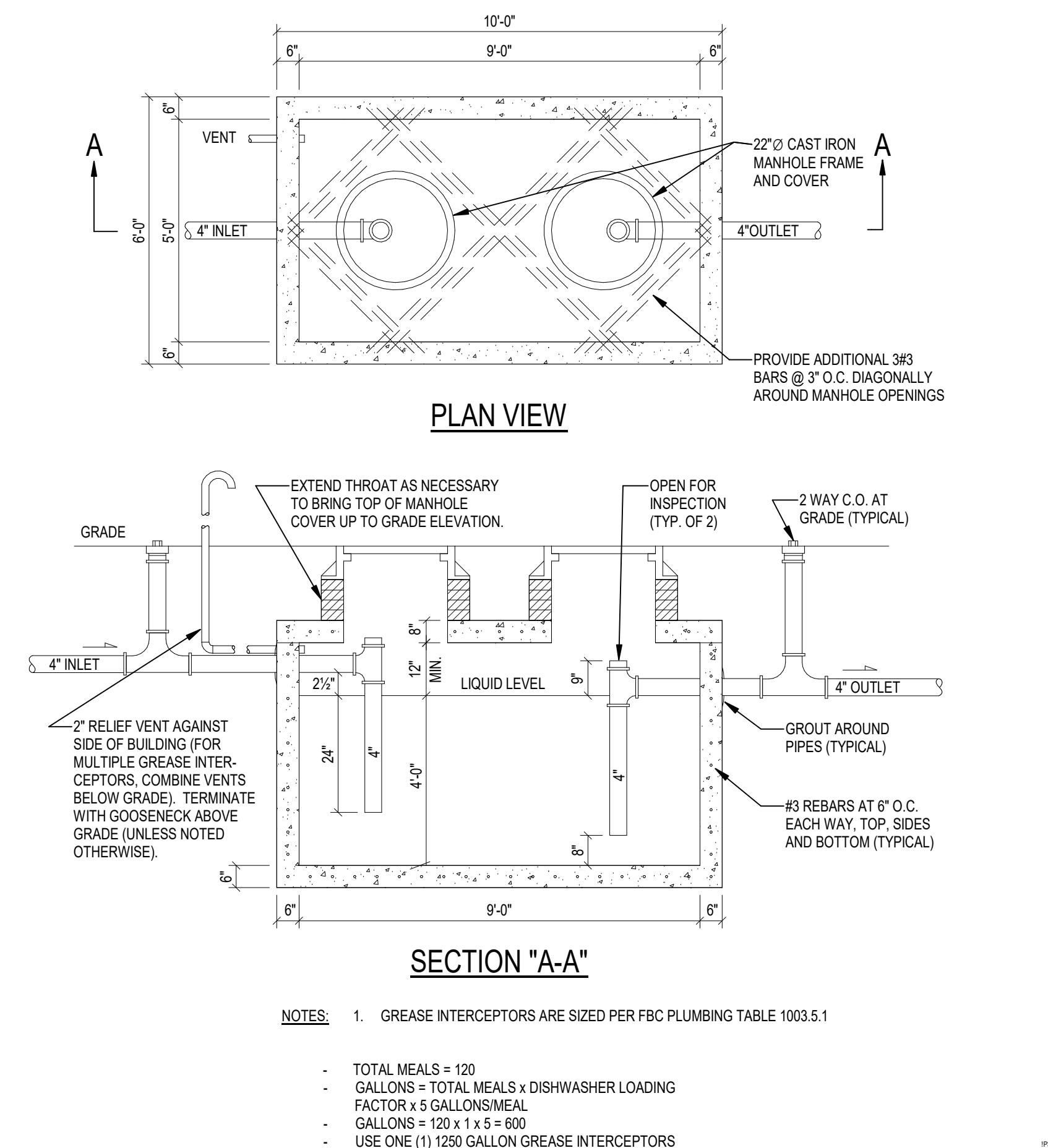
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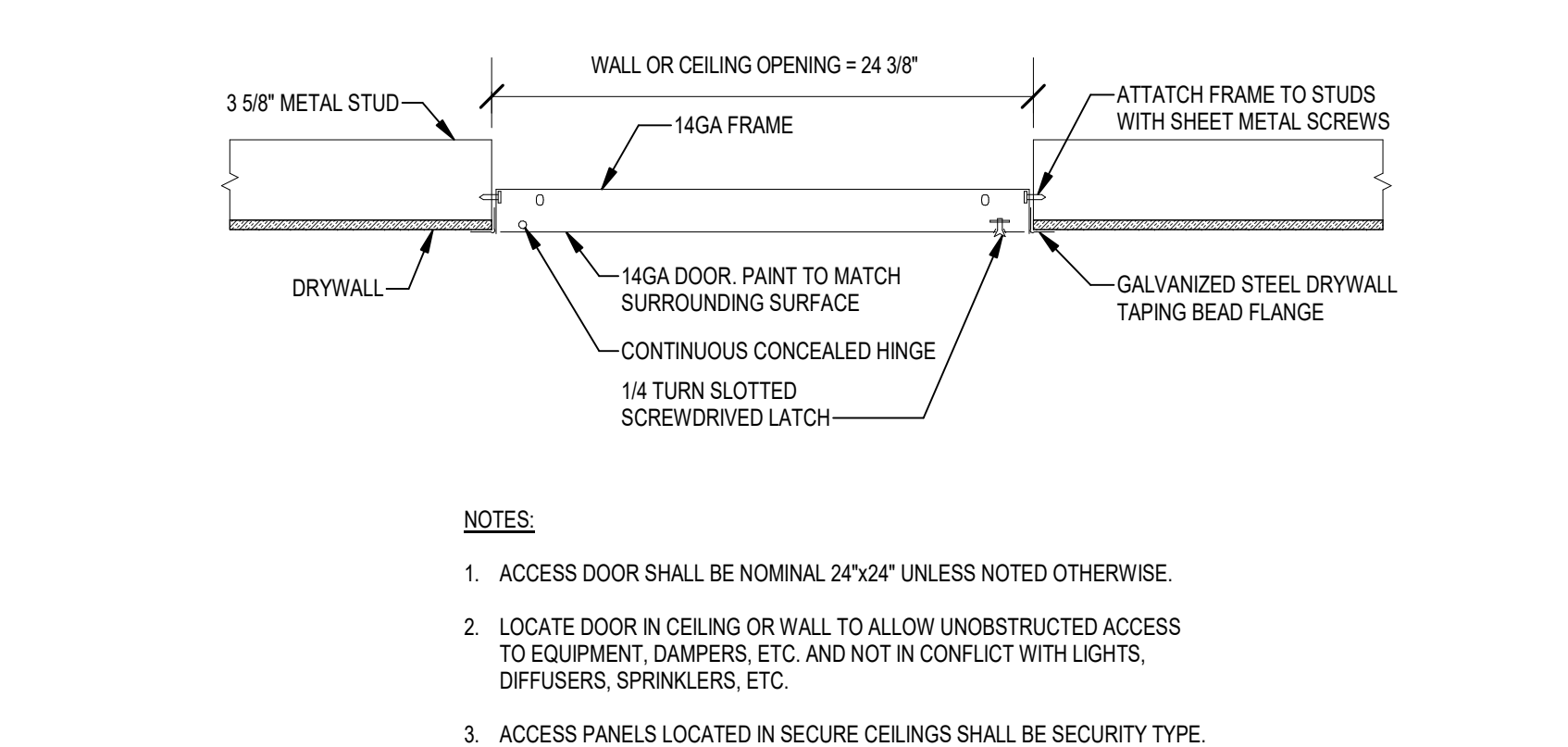
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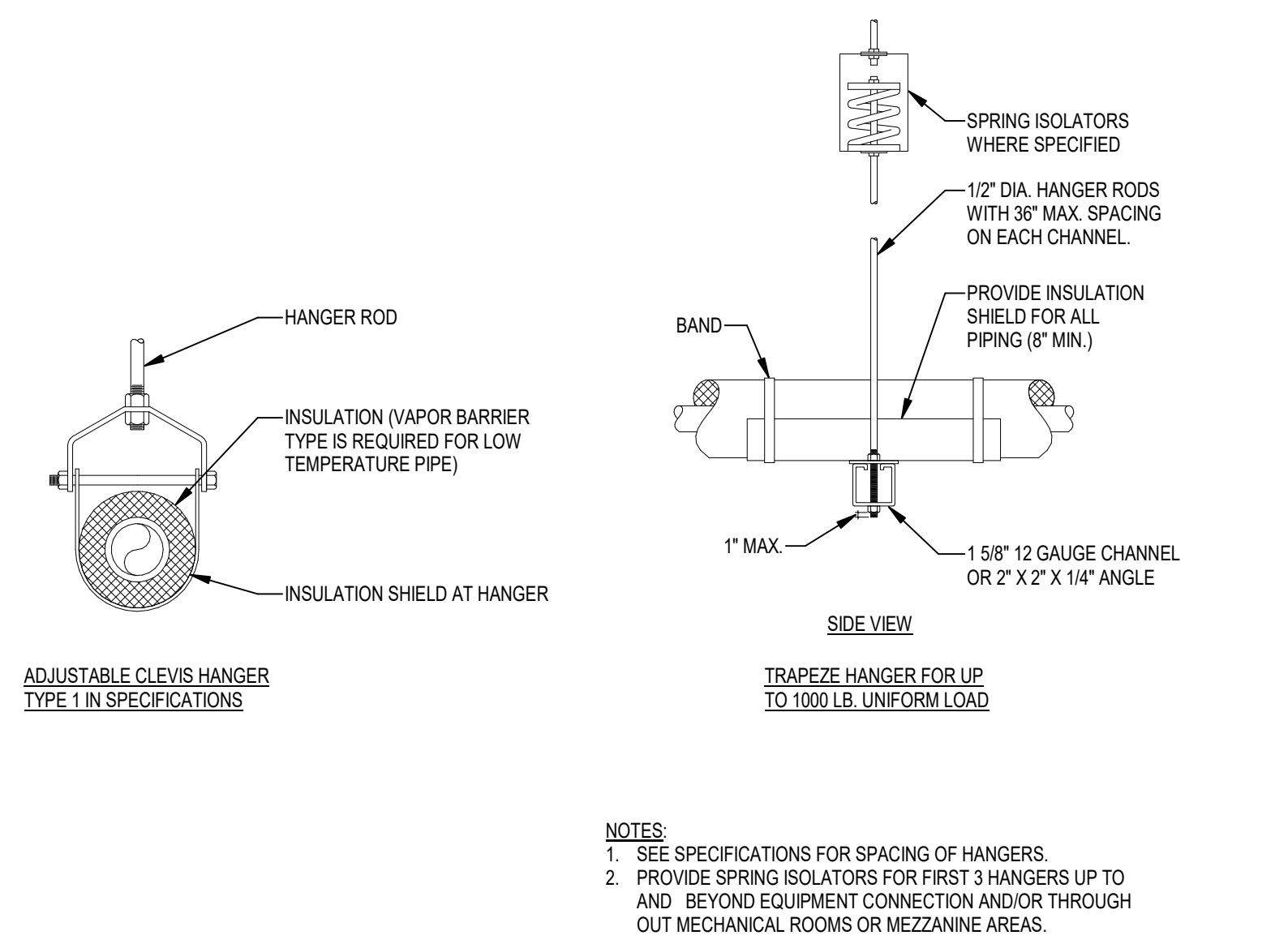
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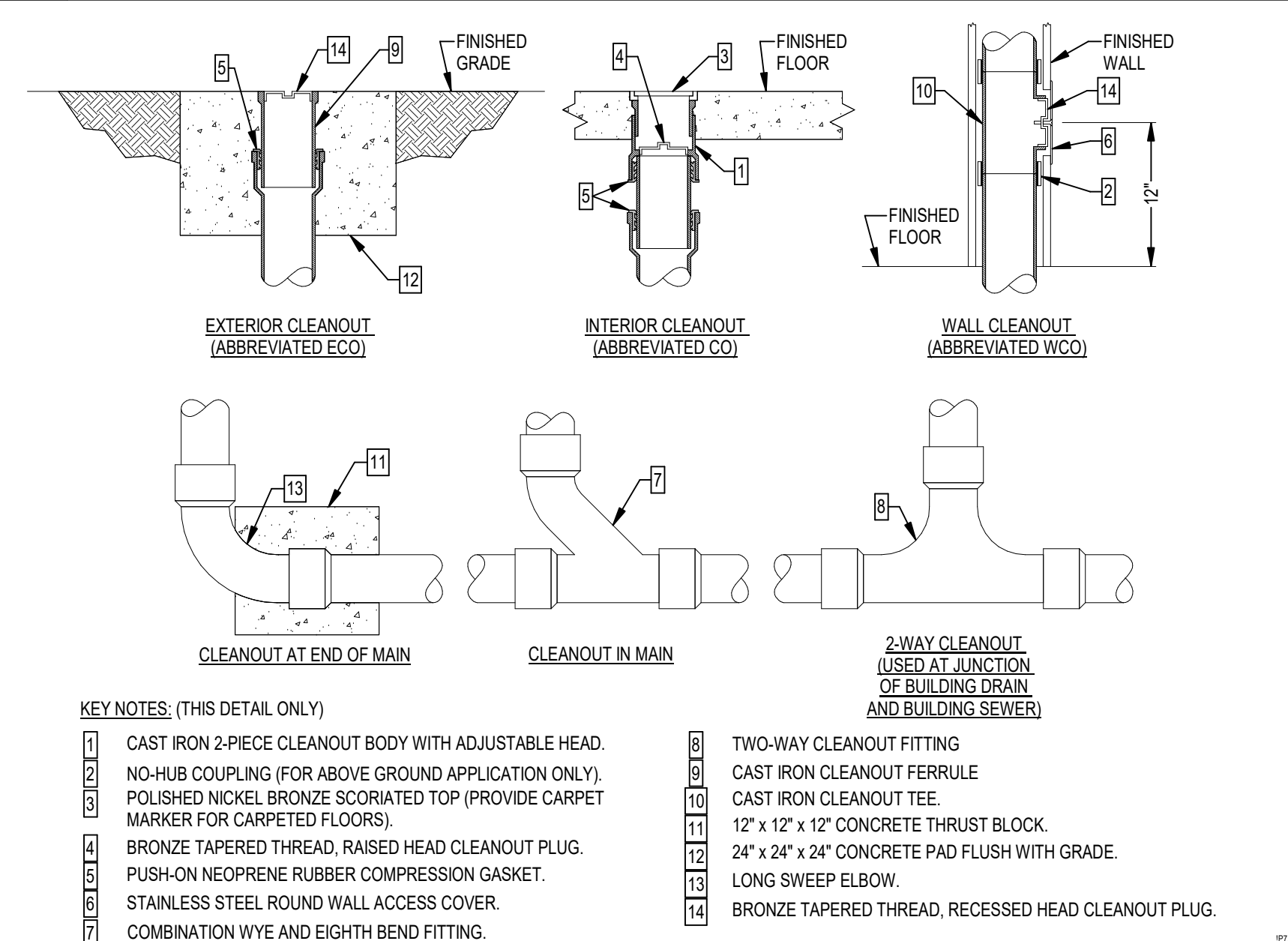
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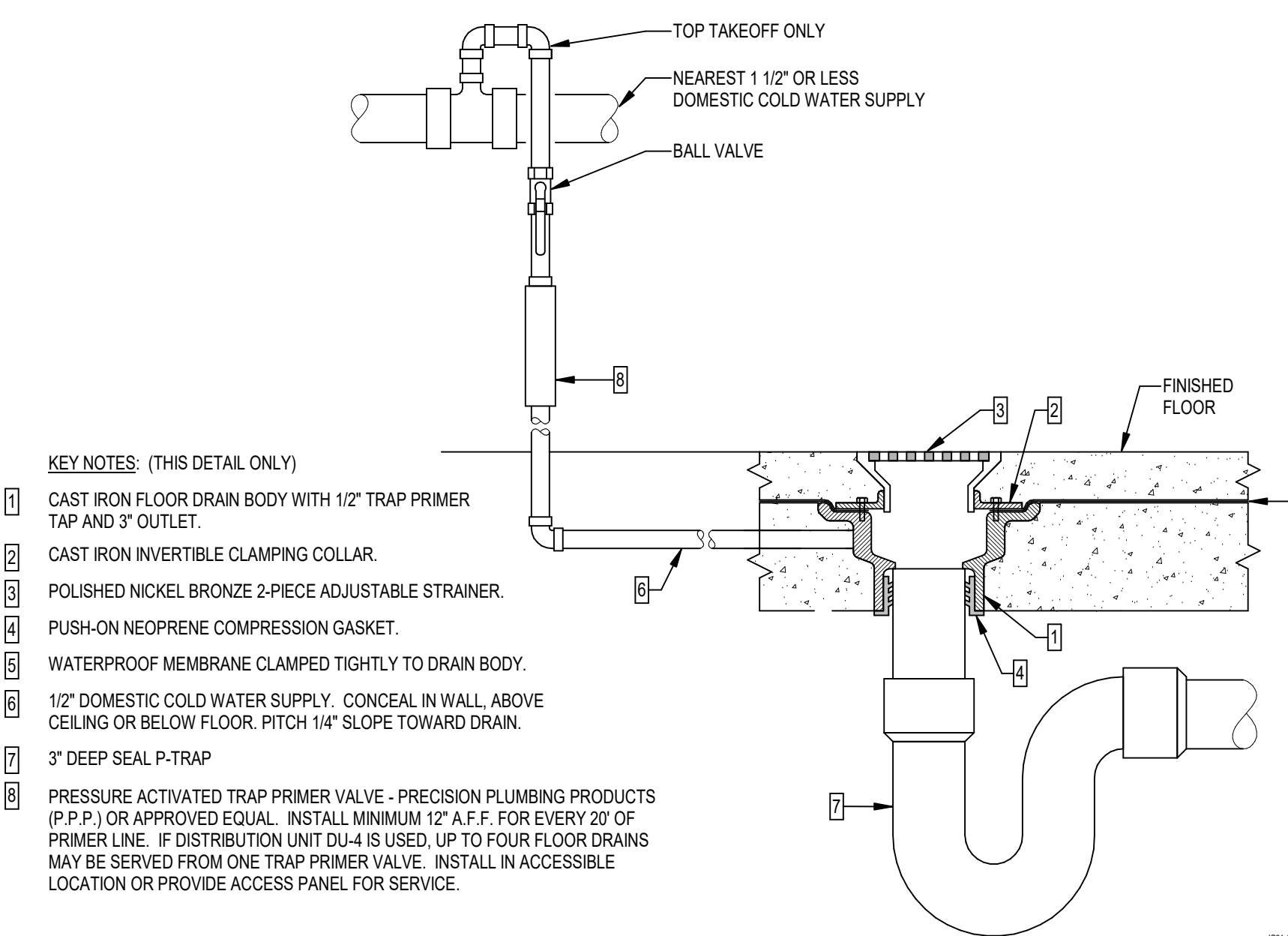
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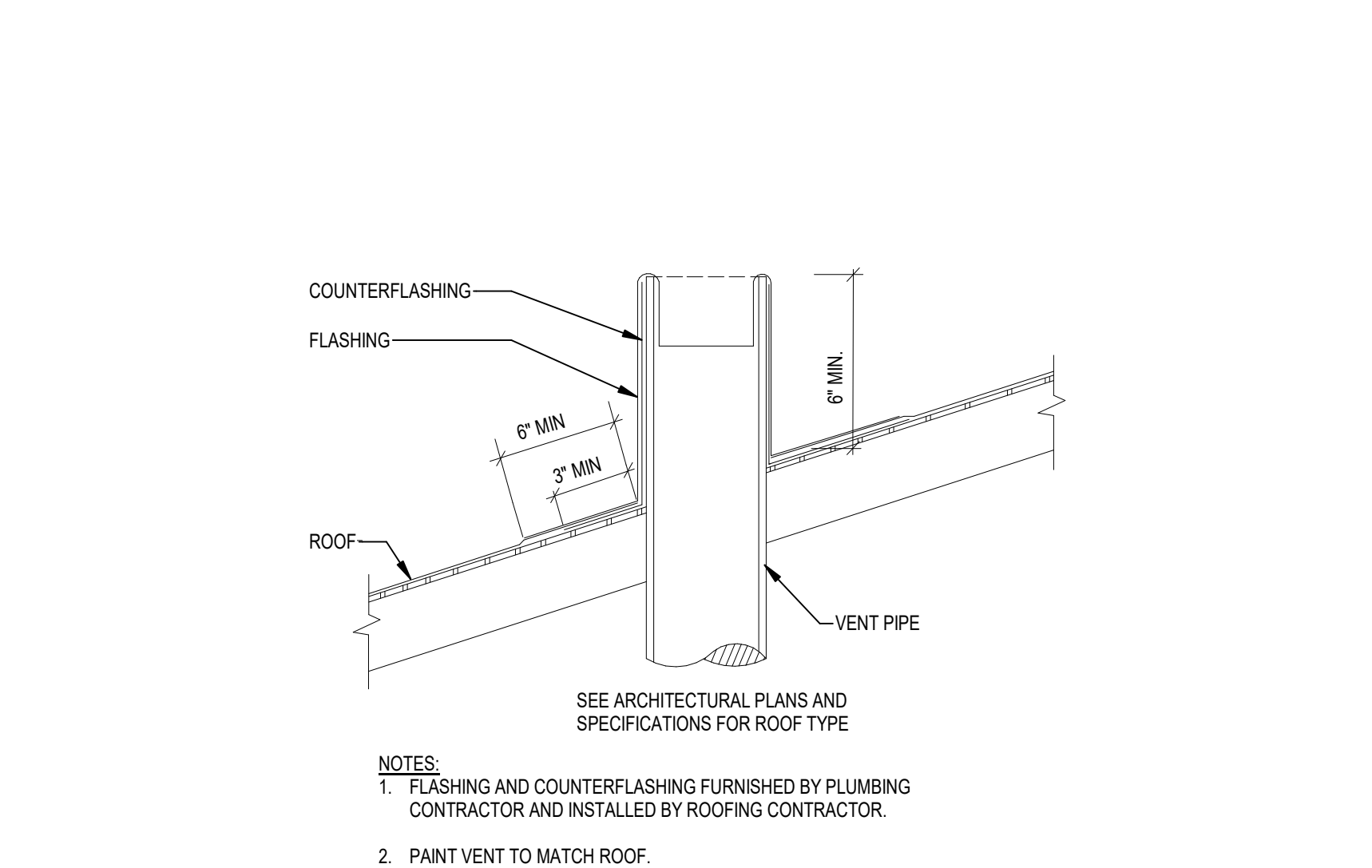
G	TYPICAL PIPE HANGERS
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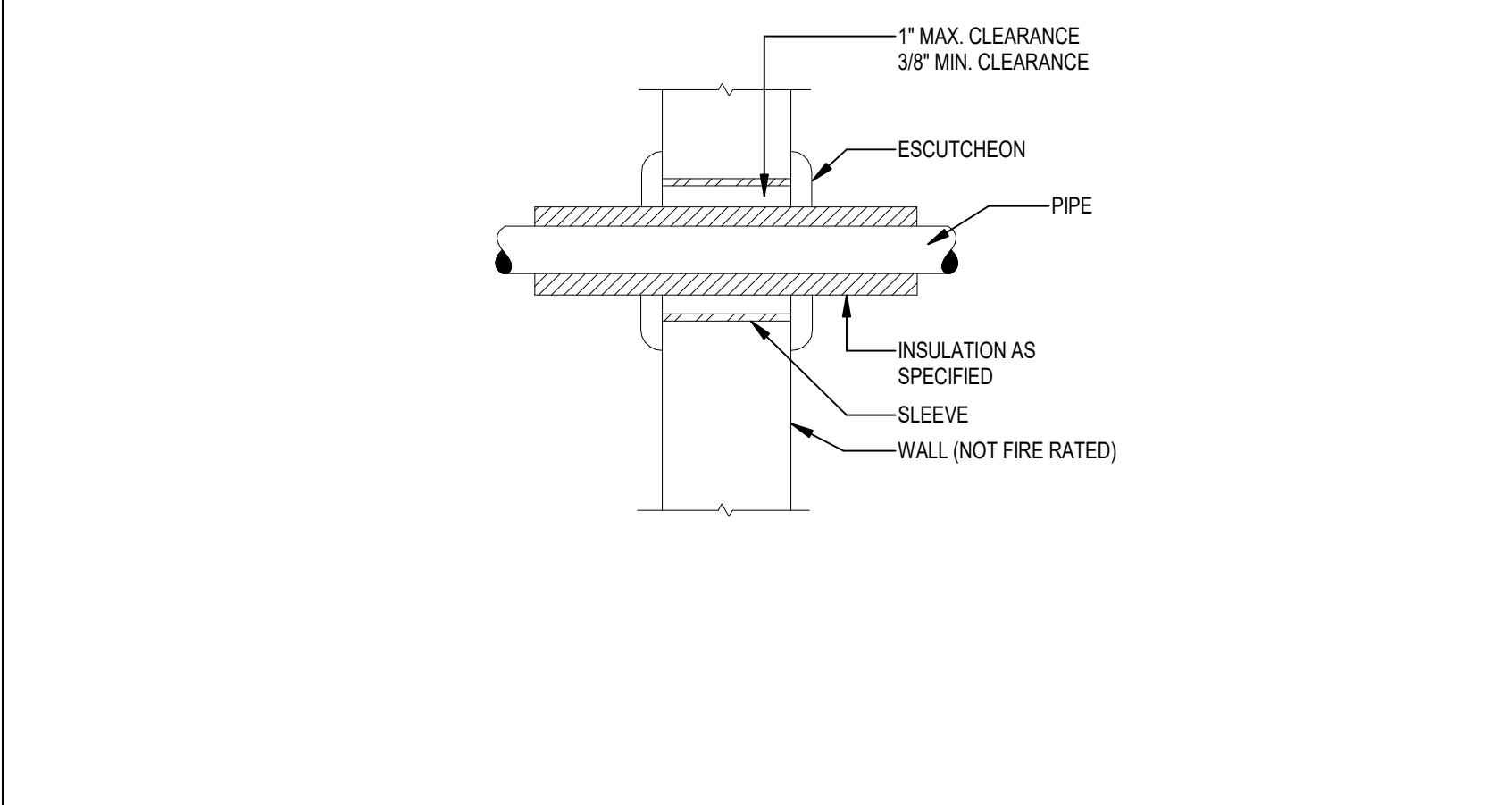
H	CLEANOUTS
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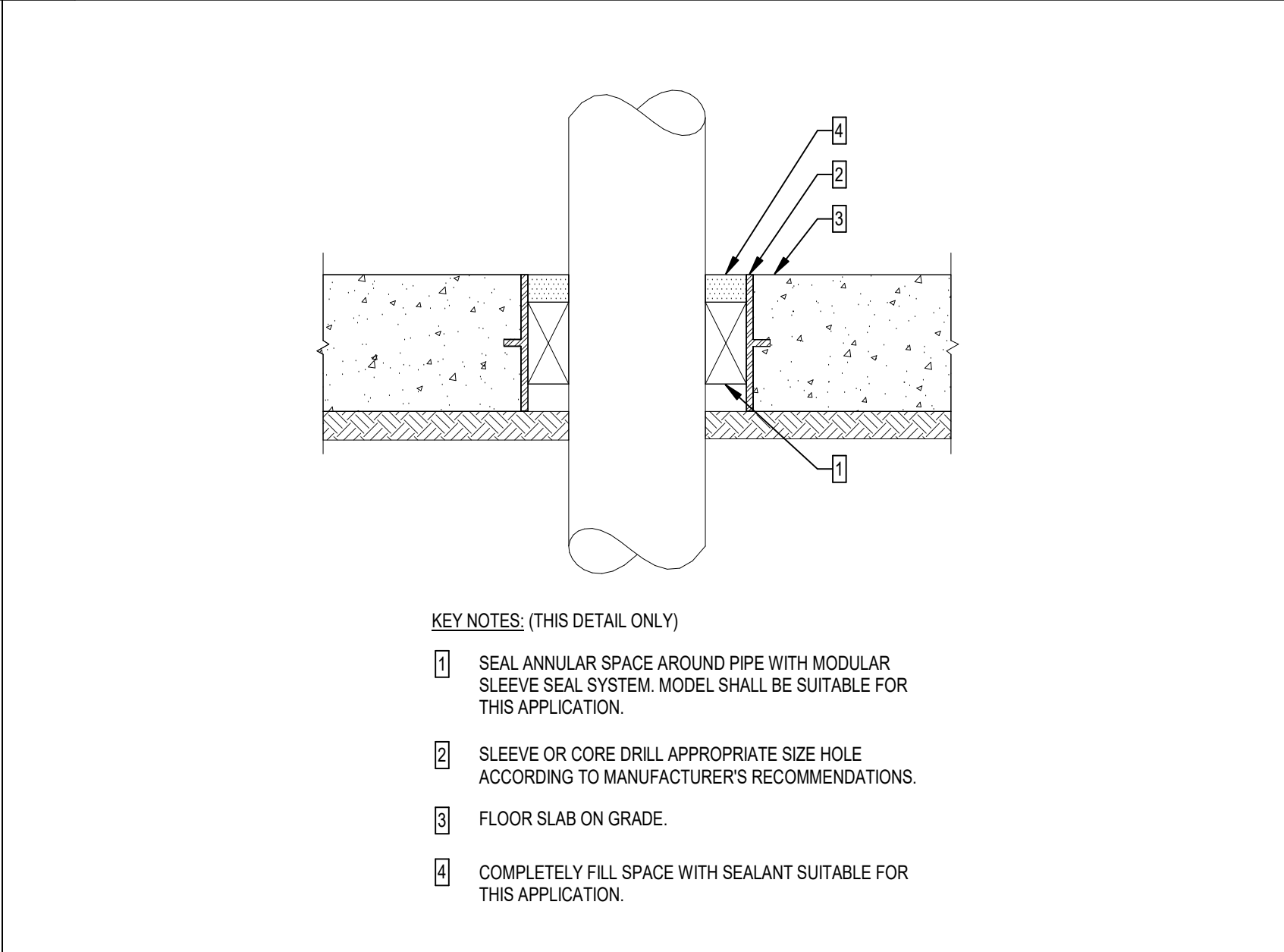
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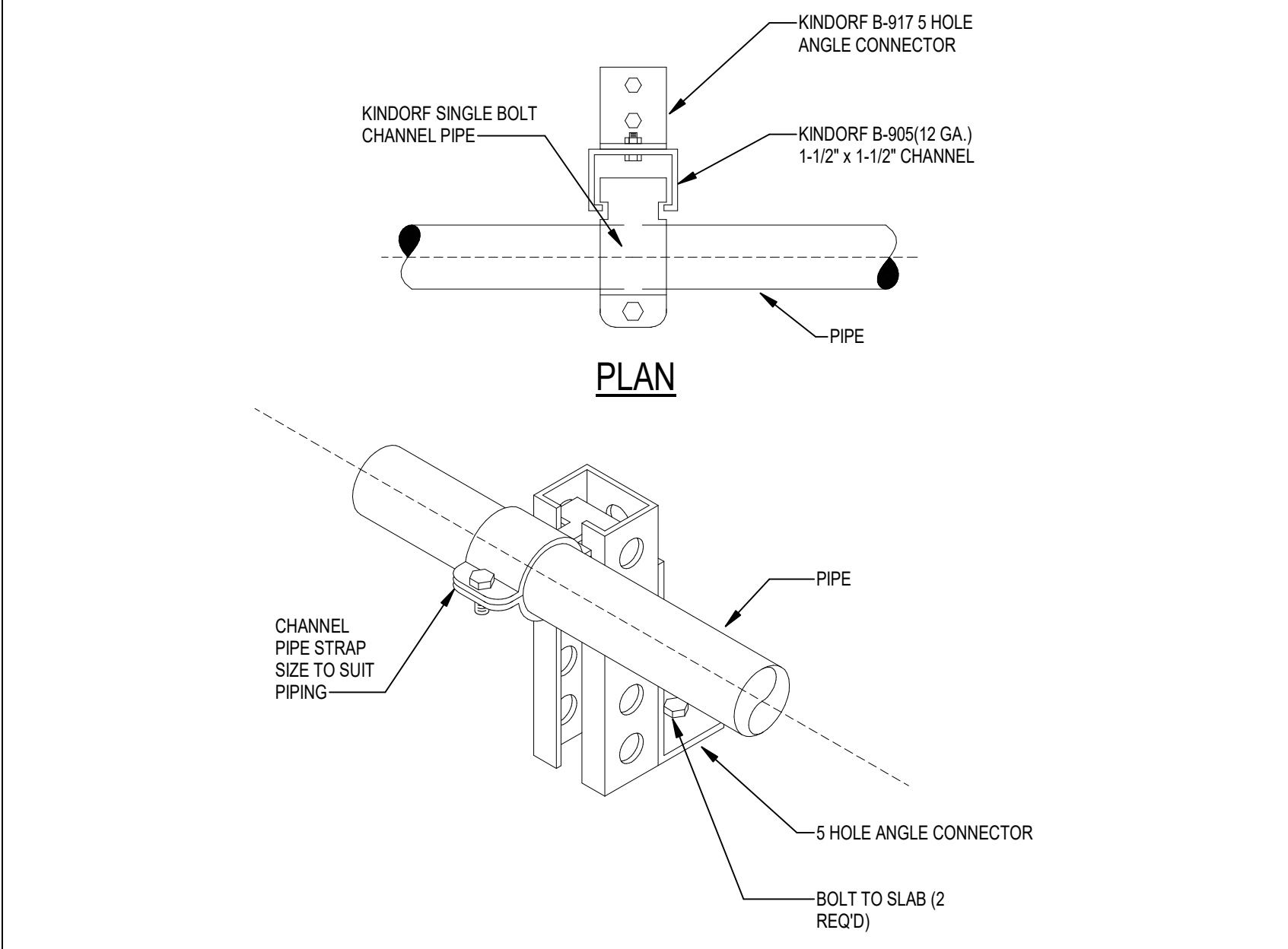
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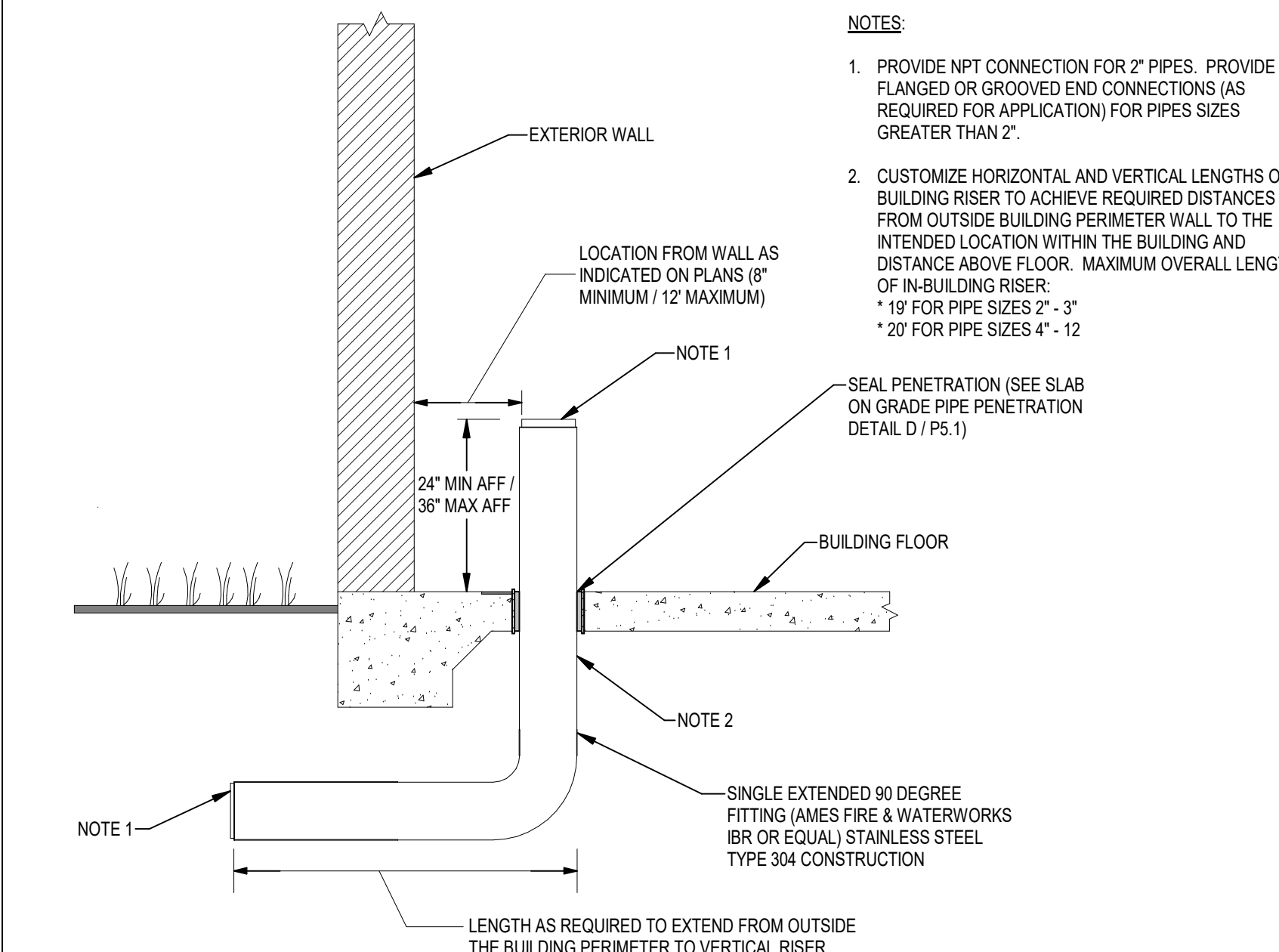
C	PIPE PENETRATION OF NON-FIRE RATED WALL
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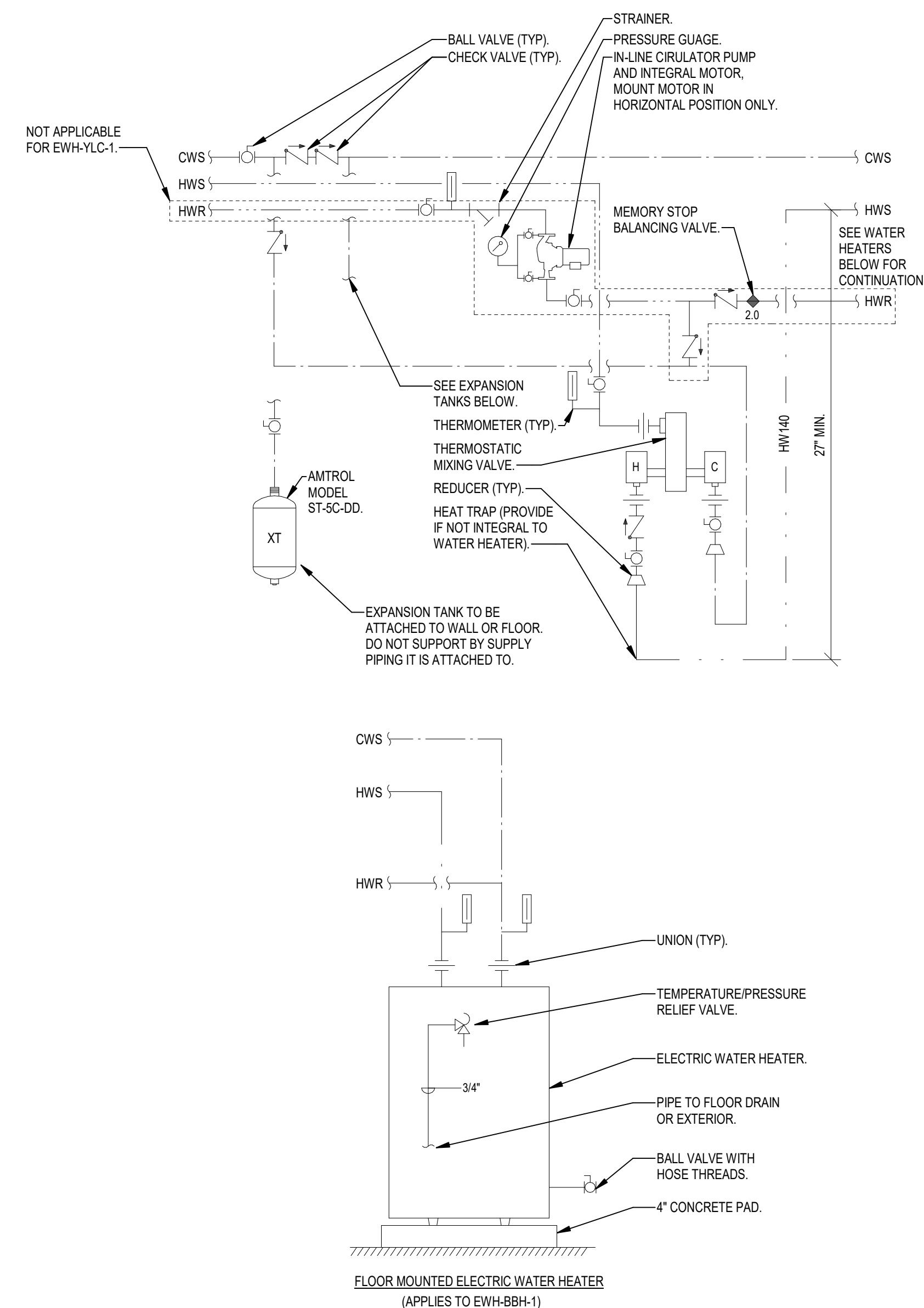
D	SLAB ON GRADE PIPE PENETRATION
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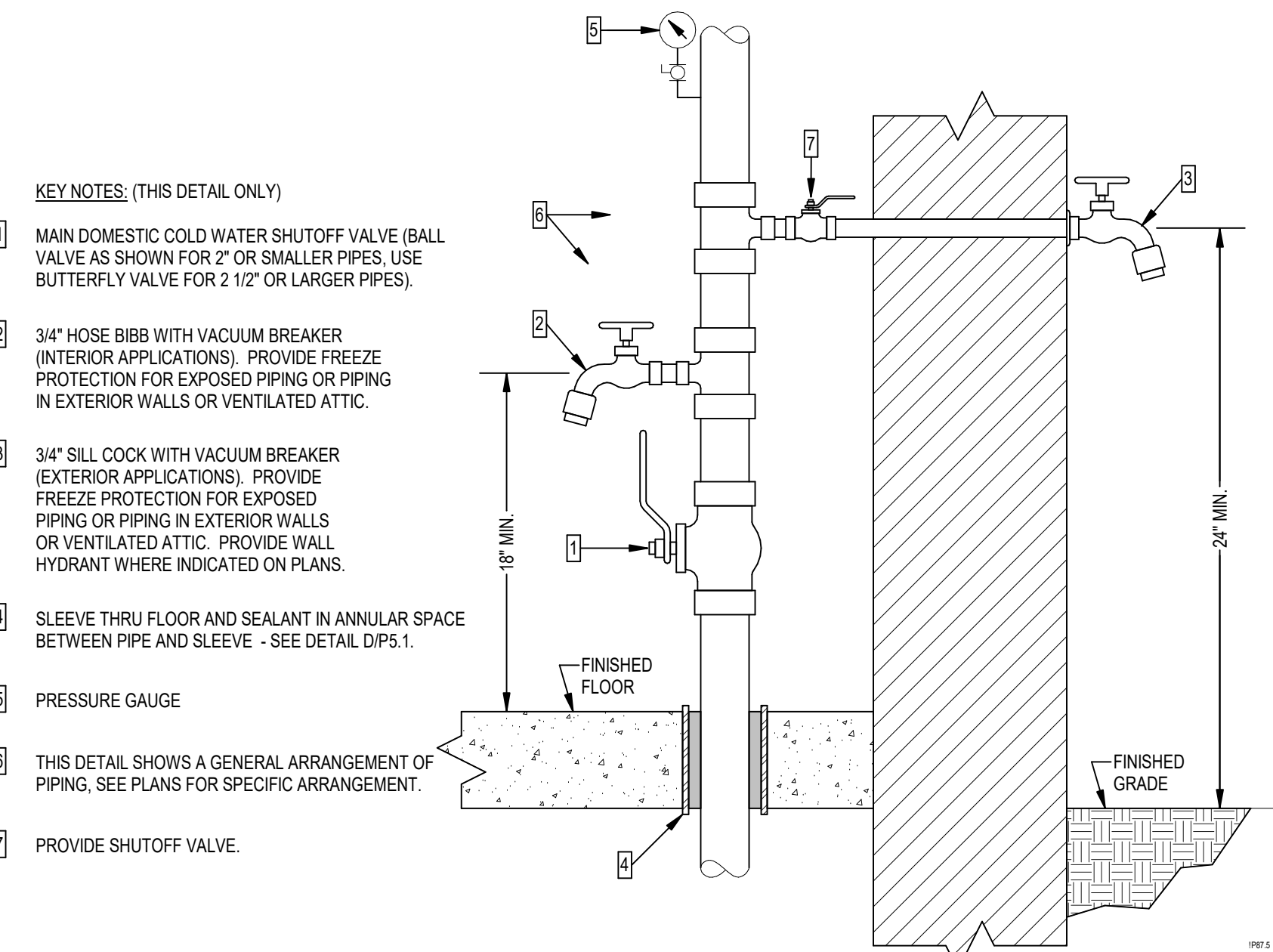
E	WATER PIPE SUPPORT
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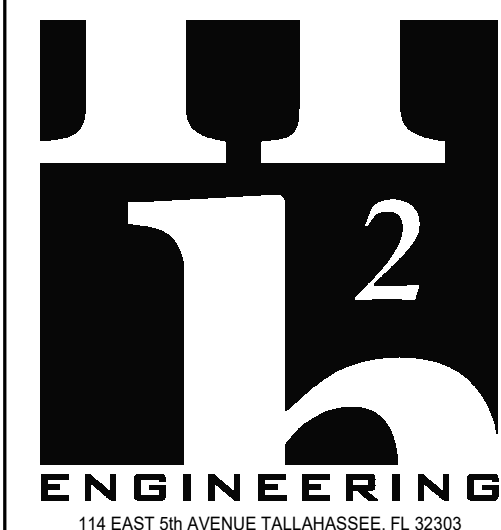
F	SINGLE PIECE IN-BUILDING RISER
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A	DOMESTIC HOT WATER SYSTEM
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3	WATER SERVICE ENTRANCE
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[illegible]CRA Project # 24029

Phase: **CONSTRUCTION DOCUMENTS**

SHEET TITLE
DETAILS

P5.1