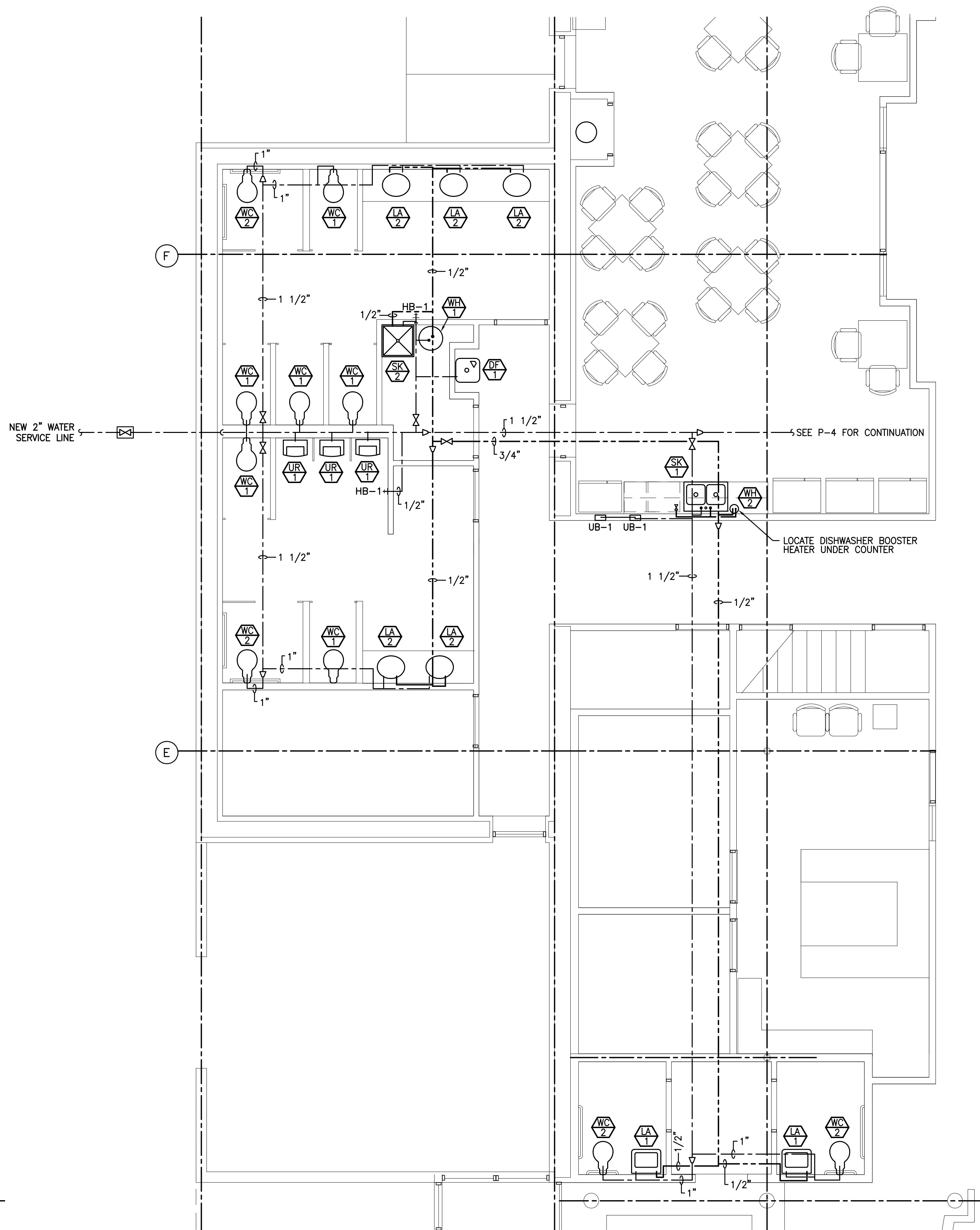
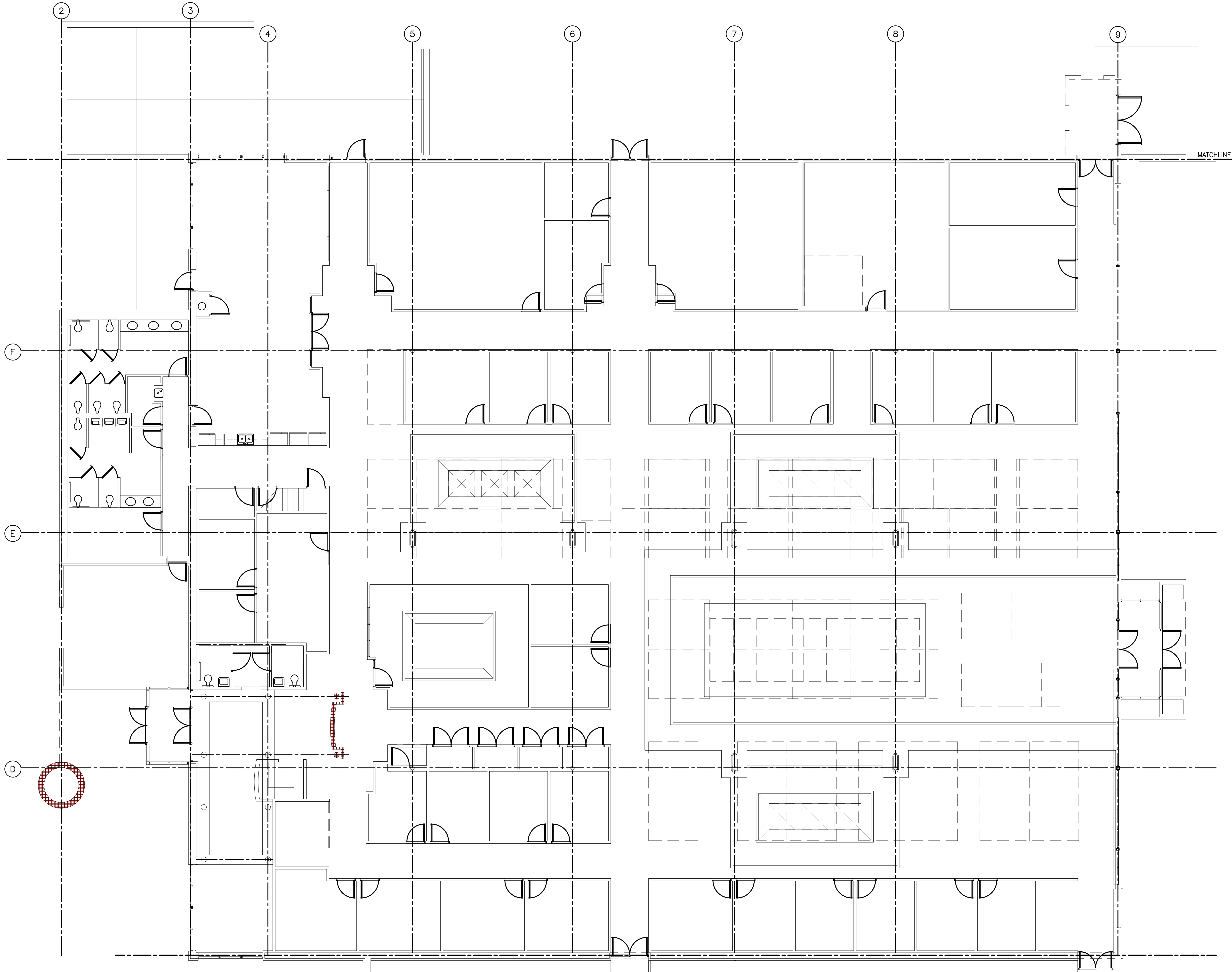


PLUMBING PLAN
DRAIN, WASTE & VENT PIPING LAYOUT
SCALE: 1/4"=1'-0"



PLUMBING PLAN
COLD & HOT WATER PIPING LAYOUT
SCALE: 1/4"=1'-0"



PLUMBING PLAN

WATER & STORM DRAINAGE PIPING LAYOUT

SCALE: 1/8"=1'-0"

DRAWING TITLE

PLUMBING PLAN
WATER & STORM DRAINAGE

PROJECT/LOCATION
DIMON INTERNATIONAL, OFFICE RENOVATION
FARMVILLE, NORTH CAROLINA

SCALE
1/8"=1'-0"

SHEET NO.

P2.1

OF 4

REV.

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PROJECT NO.
97038

DRAWN BY
C. MELTON

PROJECT MGR.
R. BROWN
DATE
9/23/97

REV/DATE

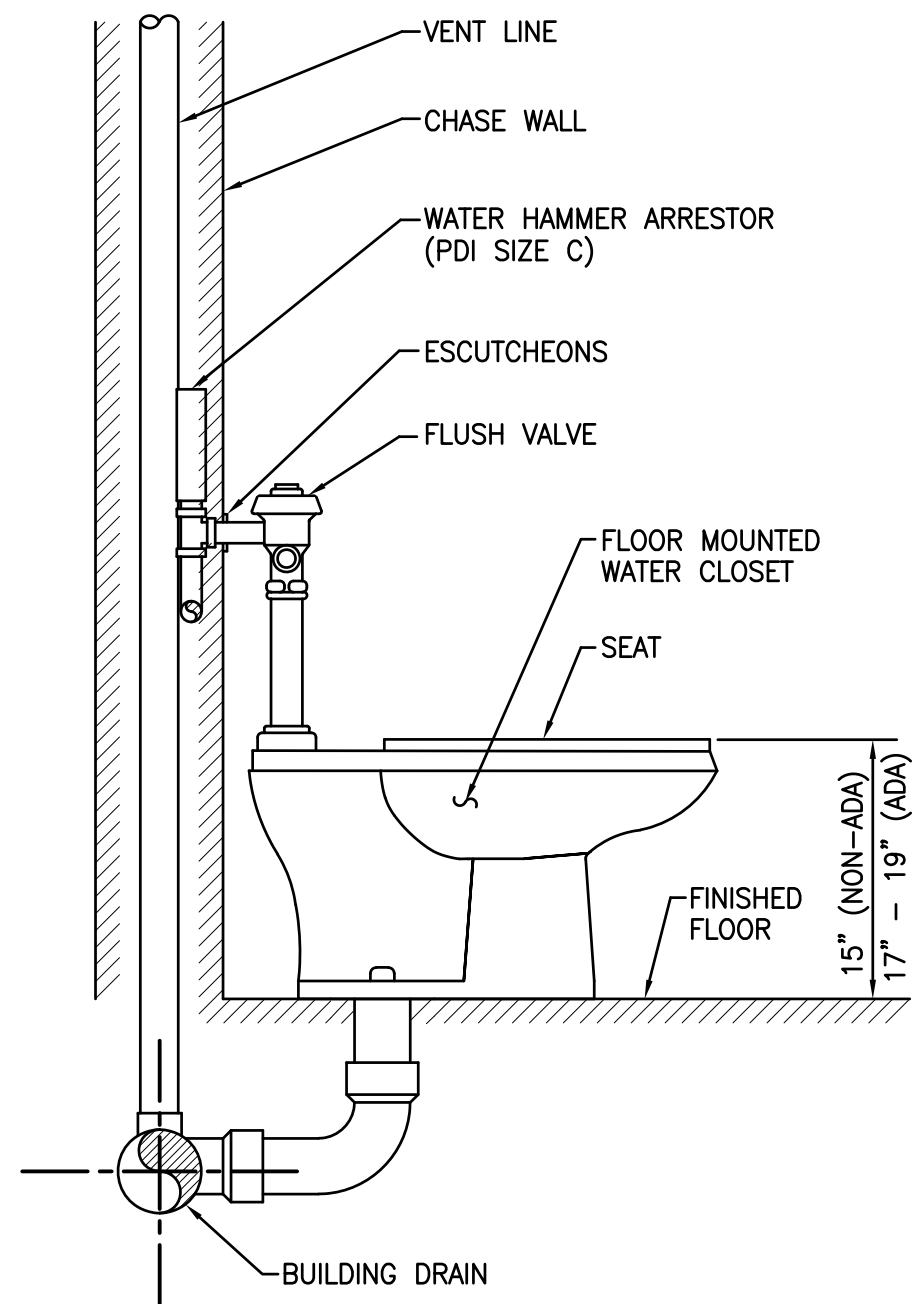
DESCRIPTION

SEAL

DESIGNED BY:

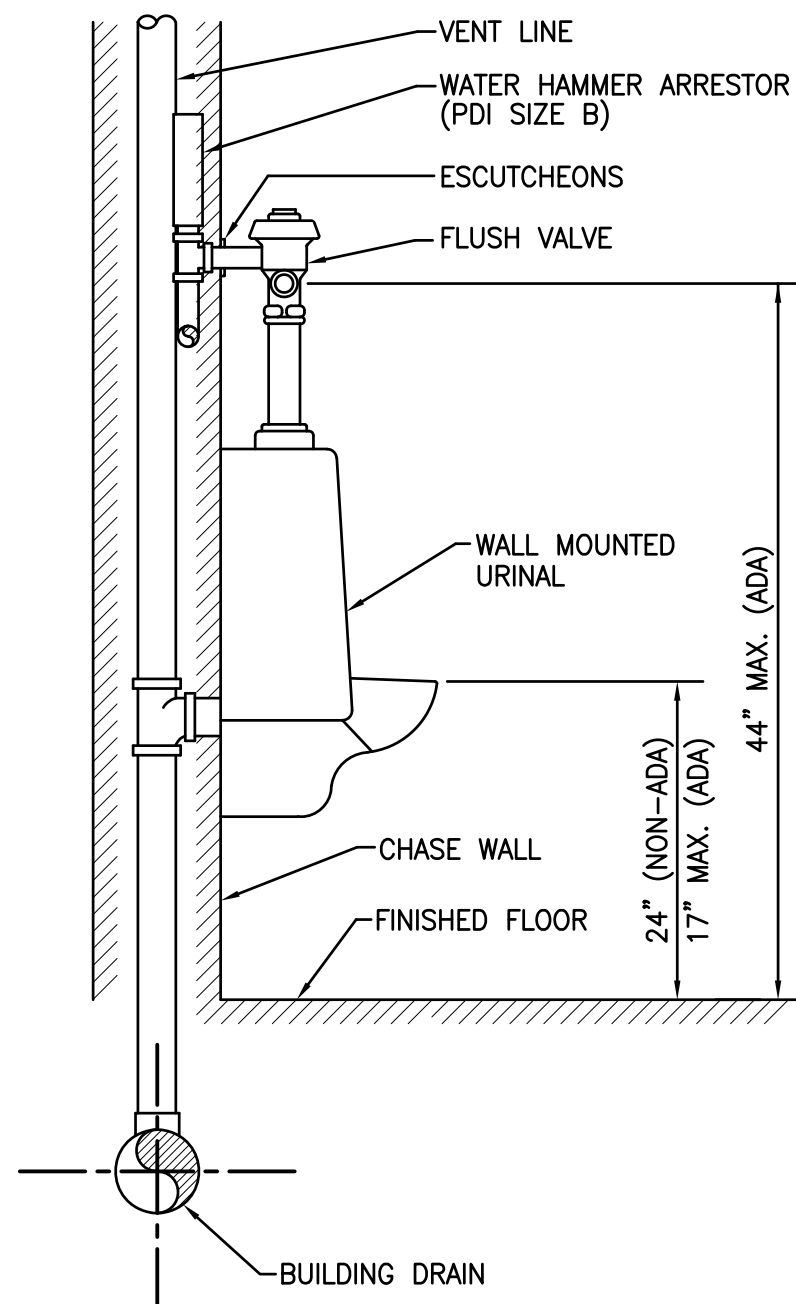
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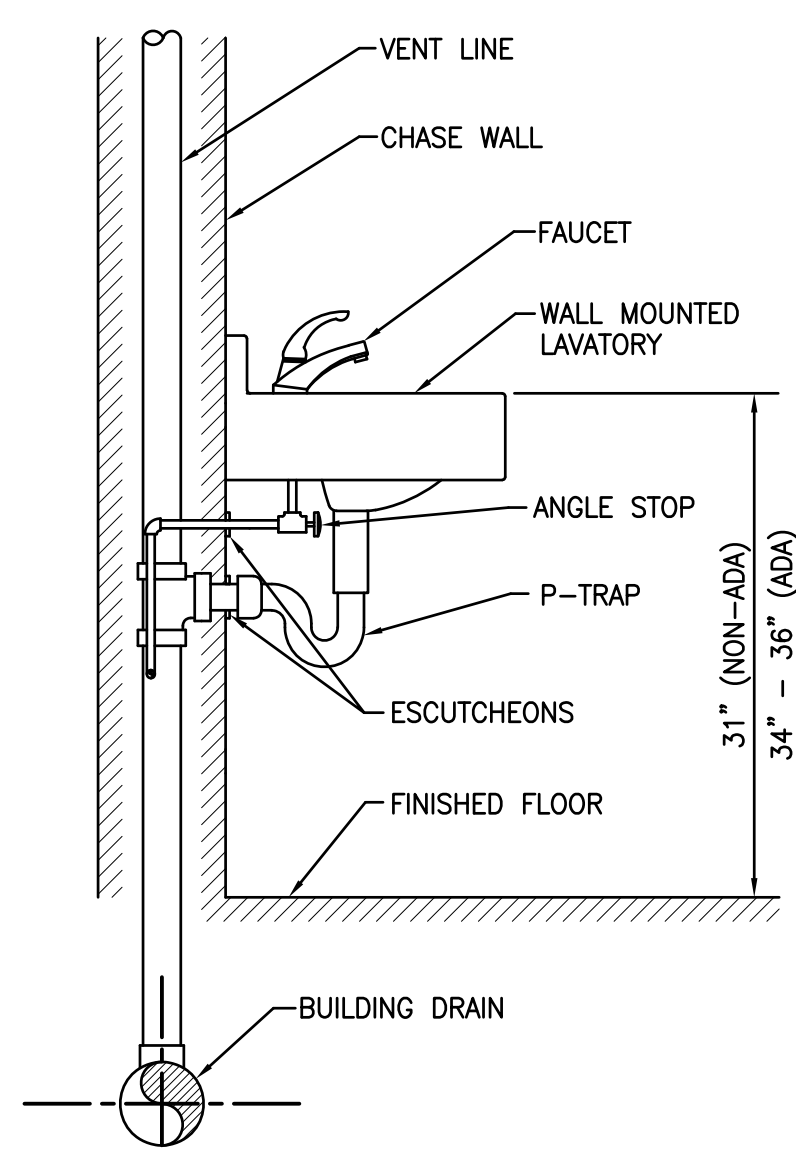
DETAIL NO. 1

FLOOR MOUNTED WATER CLOSET WITH FLUSH VALVE
SCALE: NTS



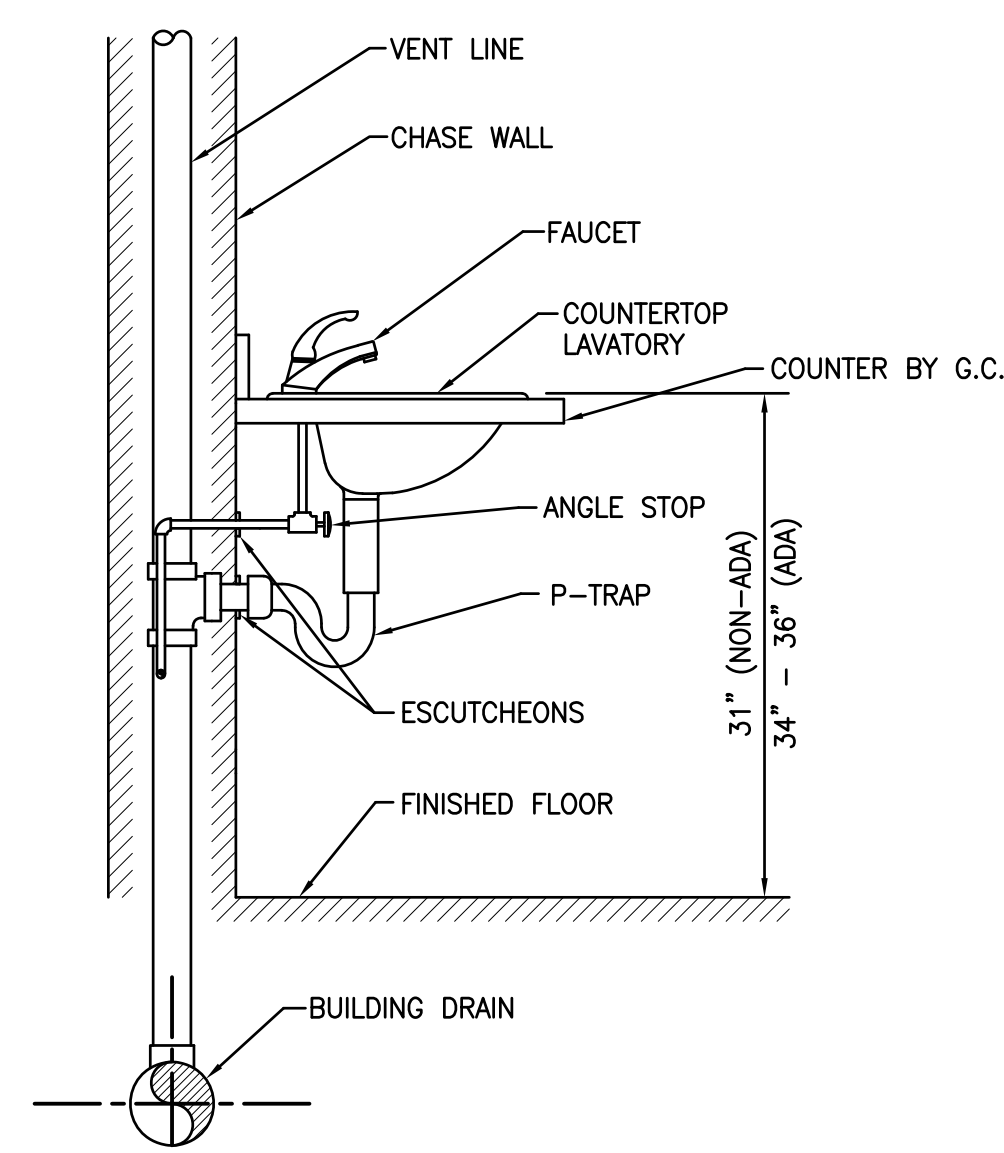
DETAIL NO. 2

WALL MOUNTED URINAL
SCALE: NTS



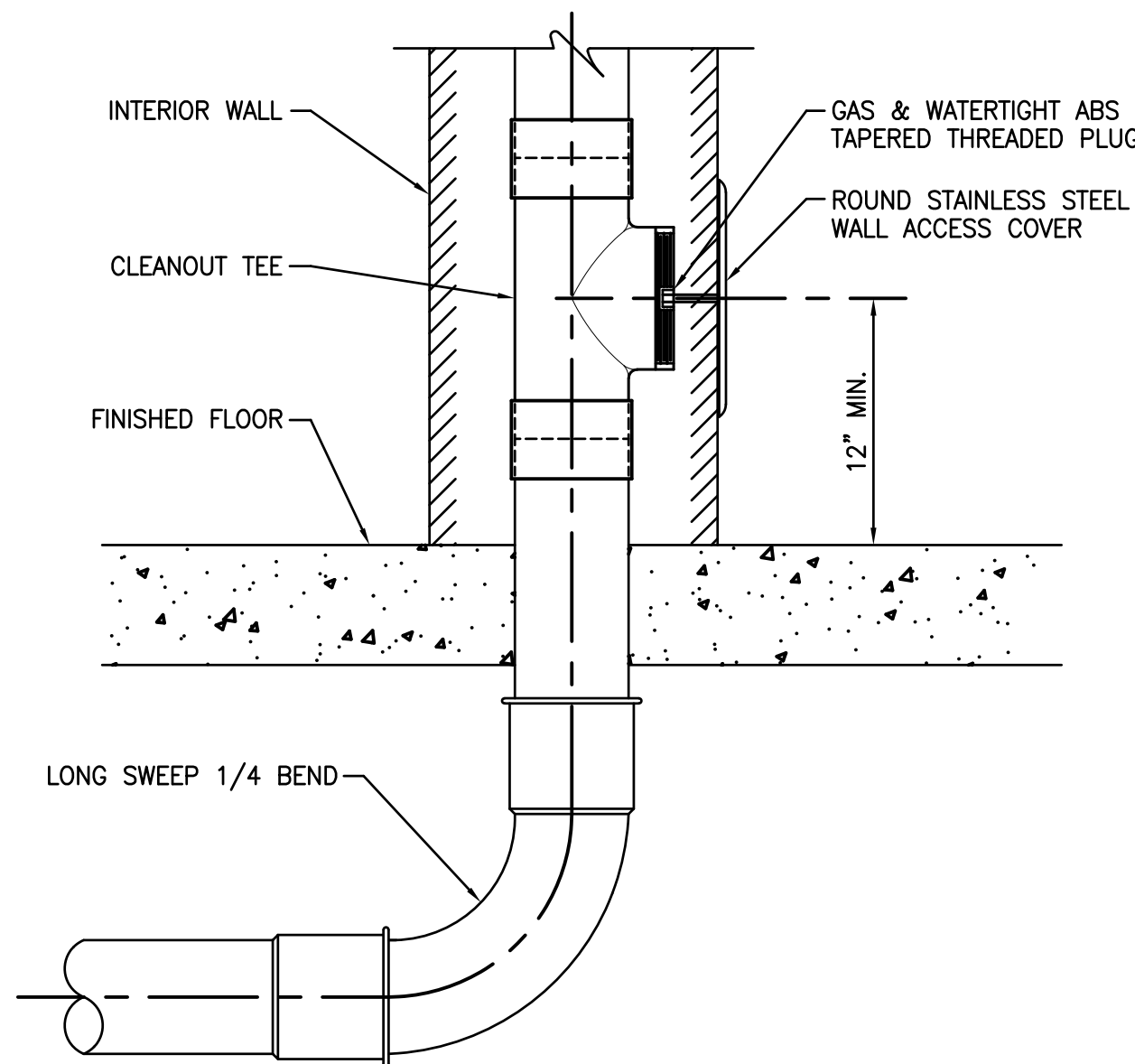
DETAIL NO. 3

WALL MOUNTED LAVATORY
SCALE: NTS



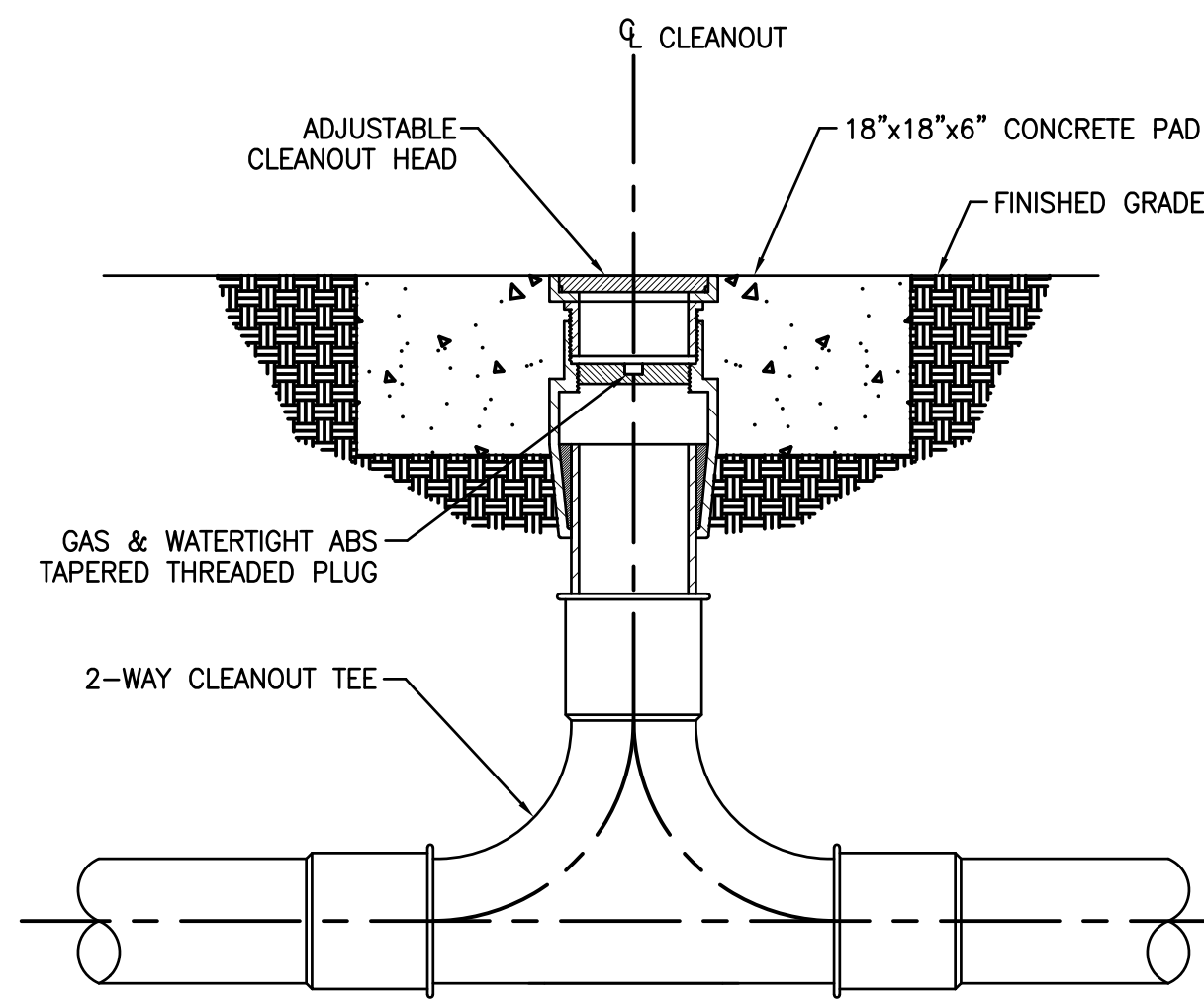
DETAIL NO. 4

COUNTERTOP MOUNTED LAVATORY
SCALE: NTS



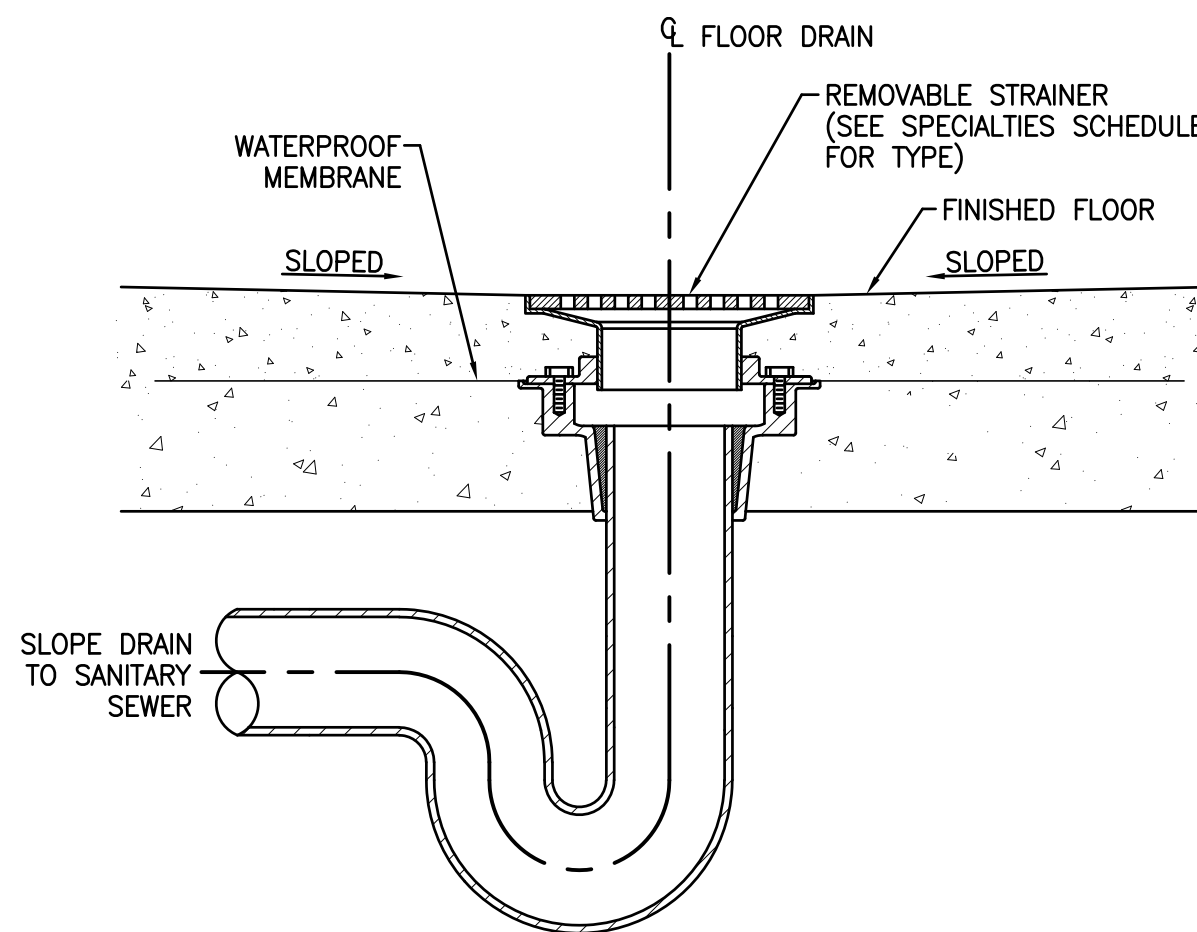
DETAIL NO. 5

WALL CLEANOUT WITH LONG SWEEP BEND
SCALE: NTS



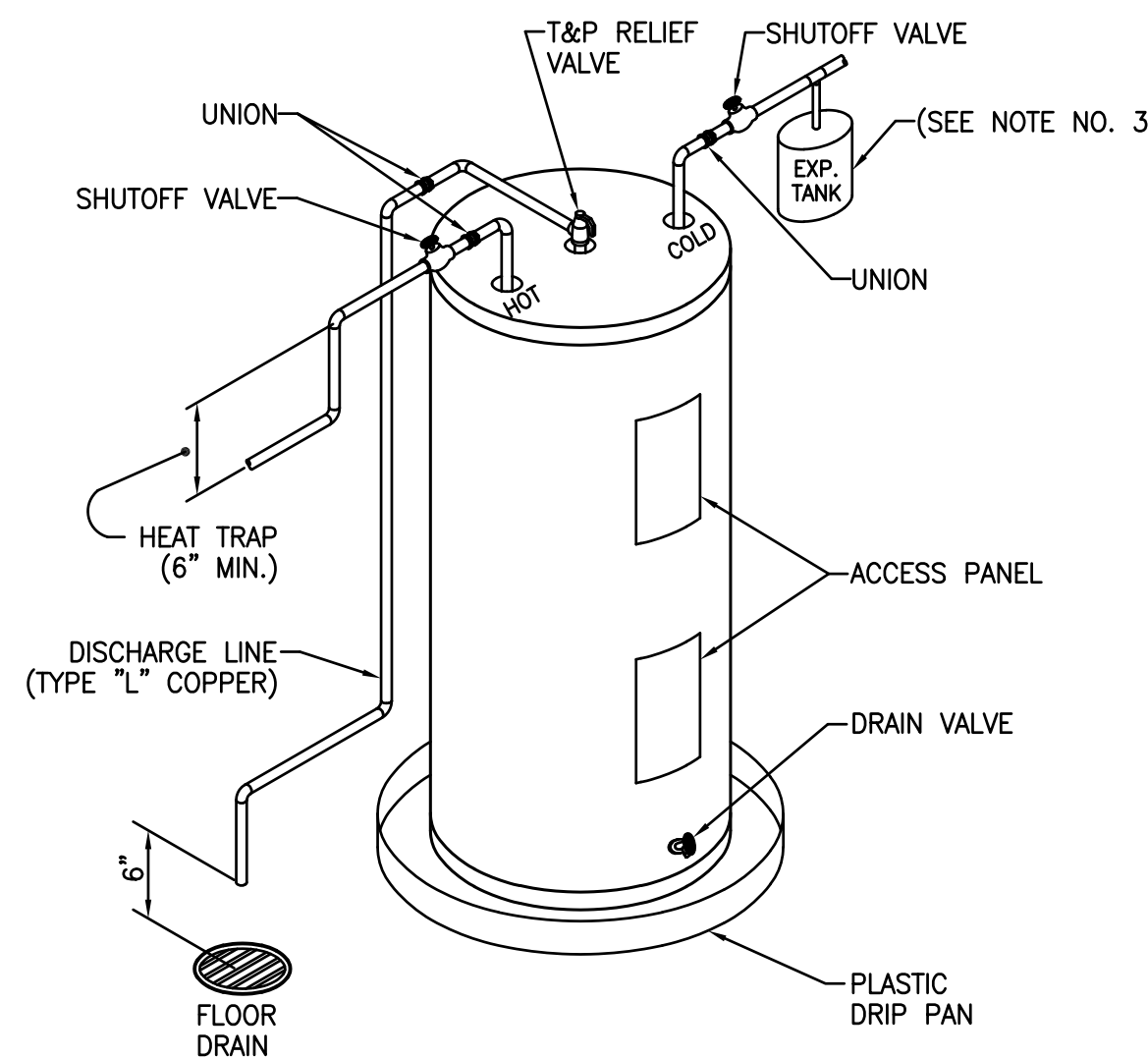
DETAIL NO. 6

CLEANOUT ON GRADE WITH 2-WAY TEE
SCALE: NTS



DETAIL NO. 7

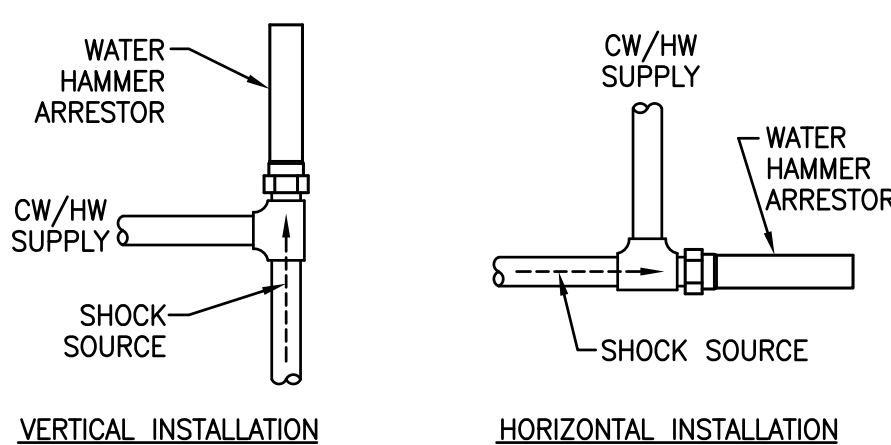
FLOOR DRAIN WITH TRAP PRIMER
SCALE: NTS



DETAIL NO. 8

FLOOR MOUNTED ELECTRIC WATER HEATER
SCALE: NTS

- NOTES:**
- DISCHARGE LINE FROM RELIEF VALVE SHALL BE PIPED FULL-SIZE TO OUTSIDE OF BUILDING OR FLOOR DRAIN AND TERMINATE 6 INCHES ABOVE GRADE.
 - PROVIDE VACUUM BREAKER WITH BOTTOM INLET TANKS OR TANKS NOT EQUIPPED WITH ANTI-SIPHON TUBES.
 - PROVIDE PRECHARGED DIAPHRAGM EXPANSION TANK ON SYSTEMS HAVING CHECK VALVES OR BACKFLOW PREVENTERS ON SUPPLY WATER LINE. TANK SHALL BE 3 GALLON CAPACITY U.N.O. AND APPROVED FOR POTABLE WATER SYSTEMS.



WATER HAMMER SIZING TABLE		
SIZE	FIXTURE UNITS	*PDI UNITS
1/2"	1-11	A
3/4"	12-32	B
1"	33-60	C
1 1/4"	61-113	D
1 1/2"	114-134	E
2"	135-330	F

*PLUMBING & DRAINAGE INSTITUTE STANDARD PDI-WH201.

NOTE: SEE PLANS FOR LOCATIONS OF WATER HAMMER ARRESTORS.

DETAIL NO. 9

WATER HAMMER ARRESTOR
SCALE: NTS

SEAL

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PROJECT NO. 97038

PROJECT MGR. R. BROWN

DRAWN BY C. MELTON

DATE 9/23/97

REV/DATE DESCRIPTION

DRAWING TITLE

PLUMBING DETAILS

PROJECT/LOCATION

DIMON INTERNATIONAL, INC. OFFICE RENOVATION
FARMVILLE, NORTH CAROLINA

SCALE

NONE

SHEET NO.

P2.1

OF 4

REV.

PLUMBING FIXTURE SCHEDULE							
FIX NO	DESCRIPTION	CW	HW	WASTE	REFERENCE MODEL NO.		
WC-1	WATER CLOSET FLUSHVALVE	1/2"	-	3"	AMERICAN STANDARD 2234.015 MADERA EL 1.6 FLUSH VALVE: SLOAN ROYAL #111 SEAT: CHURCH #9500C COLOR: WHITE		
WC-2	WATER CLOSET FLUSHVALVE ADA	1/2"	-	3"	AMERICAN STANDARD 2305.100 MADERA ADA EL 1.6 FLUSH VALVE: SLOAN ROYAL #111 SEAT: CHURCH #9500C COLOR: WHITE		
UR-1	URINAL ADA	3/4"	-	2"	AMERICAN STANDARD 6501.010 WASHBROOK FLUSH VALVE: SLOAN 186-1 STRAINER: 047068-0070A COLOR: WHITE		
LA-1	LAVATORY WALL HUNG ADA	3/8"	3/8"	1 1/4"	AMERICAN STANDARD 0355.012 LUCERNE FAUCET: MOEN MODEL 8400 STRAINER: MCGUIRE MODEL 155A COLOR: WHITE		
LA-2	LAVATORY COUNTERTOP ADA	3/8"	3/8"	1 1/4"	AMERICAN STANDARD 0476.028 AQUALYN FAUCET: MOEN MODEL 8400 STRAINER: MCGUIRE MODEL 155A COLOR: WHITE		
SK-1	KITCHEN SINK DOUBLE BOWL 21"x37"	1/2"	1/2"	1 1/2"	JUST DL-2143-A-GR FAUCET: MOEN MODEL 8799 STRAINER: MCGUIRE MODEL 151A		
SK-2	MOP SINK	1/2"	1/2"	3"	FIAT MSB 2424 W/MOP BRACKET 889-CC, HOSE & HOSE BRACKET 832-AA FAUCET: 830-AA		
DF-1	DRINKING FOUNTAIN ADA	3/8"	-	1 1/4"	OASIS PBAM 380W 120V/1ø 4.6 FLA		

PLUMBING SPECIALTIES SCHEDULE			
MARK	DESCRIPTION	MANF.	MODEL NO.
COG	CLEANOUT ON GRADE	ZURN	Z-1449
WCO	WALL CLEANOUT	ZURN	Z-1468
WA	WATER HAMMER ARRESTOR	PPP	PPP-SWA (PDI SIZE)
HB-1	WALL HYDRANT W/TEE KEY	WOODFORD	74 SERIES
FHB-1	FREEZELESS WALL HYDRANT W/TEE KEY	WOODFORD	65 SERIES
FD-1	FLOOR DRAIN	ZURN	ZN-415-3"-W/TYPE "B" STRAINER-6"
FD-2	FUNNEL DRAIN	ZURN	Z-326-2"
UB-1	UTILITY BOX - ICE MAKER	OATEY	3811 WITH 3/8" VALVE

NOTES:

1. PLUMBER MAY SUBSTITUTE EQUAL BY JOSAM, PLASTIC ODDITIES, PPP OR CHARLOTTE.

ELECTRIC WATER HEATER SCHEDULE											
MARK	SIZE	GPH	TEMP. RISE	KW	VOLT/PH	FLA	CW CONN.	HW CONN.	MANF.	MODEL	WEIGHT
WH-1	17 GAL	23.0	60°F	4.5	208/1ø	19.0	3/4"	3/4"	STATE	PV-17-10MS-E	213 LBS
WH-1	4 GAL	16.0	60°F	3.8	208/1ø	16.0	1/2"	1/2"	STATE	SCI-4-1SUS4-E	60 LBS

NOTES:

1. SET OUTLET WATER TEMPERATURE OF WH-1 AT 120°F.
2. SET OUTLET WATER TEMPERATURE OF WH-2 AT 180°F.
3. PROVIDE WITH 5-YEAR TANK WARRANTY AND 1-YEAR PARTS WARRANTY.

PLUMBING LEGEND		
SYMBOL	ABBR	DESCRIPTION
----	CW	COLD WATER
----	HW	HOT WATER
----	W	WASTE
----	V	VENT
RL	RL	ROOF LEADER
⌋	VTR	VENT THRU ROOF
⌋	WCO	WALL CLEANOUT
⊗	FCO	FLOOR CLEANOUT
⊗	COG	CLEANOUT ON GRADE
⊗	FD	ROUND FLOOR DRAIN
+	HB	HOSE BIBB
+	FHB	FROSTPROOF HOSE BIBB
⌋	GV	GATE VALVE
⌋	BV	BALL VALVE
⌋	BFP	BACKFLOW PREVENTER
⌋	WA	WATER ARRESTOR
⌋	UN	UNION
⌋	CD	CONCENTRIC REDUCER
—	—	FLOW DIRECTION ARROW
—	—	FIXTURE MARK (SEE SCHEDULE)
—	—	NEW/EXISTING CONNECTION

PLUMBING NOTES:

- PLUMBING PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE PLUMBING SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT.
- DESIGN COORDINATION OF BUILDING COMPONENTS & OTHER TRADES HAS BEEN PERFORMED. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATING & SEQUENCING OF INSTALLATION OF PLUMBING EQUIPMENT & MATERIALS WITH BUILDING COMPONENTS & OTHER TRADES.
- COORDINATE CONNECTION OF PLUMBING SYSTEMS WITH EXTERIOR UTILITIES AND SERVICES.
- COORDINATE ROOF VENT LOCATIONS WITH OUTSIDE AIR INTAKES OF HVAC UNITS TO MAINTAIN A MINIMUM CLEARANCE OF 10 FEET.
- ALL WORK SHALL COMPLY WITH LOCAL & STATE CODES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
- DRAIN, WASTE & VENT (DWV) PIPING AND STORM DRAINS SHALL BE NO-HUB CAST IRON WITH NEOPRENE SEALING SLEEVES AND 300 SERIES SS SHIELD AND CLAMP ASSEMBLY. AT CONTRACTORS OPTION UNDERGROUND PIPING AND PIPING OUTSIDE RETURN PLENUMS MAY BE SCH. 40 PVC WITH SOCKET TYPE SOLVENT WELDED JOINTS.
- ABOVE GRADE WATER PIPING SHALL BE TYPE L COPPER WITH SOLDERED OR BRAZED CONNECTIONS.
- BELOW GRADE WATER PIPING (INSIDE OF BUILDING) SHALL BE TYPE K COPPER WITH SOLDERED OR BRAZED CONNECTIONS.
- WATER SERVICE PIPING SHALL BE SCHEDULE 40 PVC WITH PVC FITTINGS AND SOLVENT-CEMENTED JOINTS.
- PROVIDE PIPE & FITTINGS AND LEAD FREE SOLDER & FLUX IN ACCORDANCE WITH NC STATE BUILDING CODE VOLUME II, TABLES 303 & 603.
- INDIVIDUAL SUPPLY AND DRAIN CONNECTIONS SIZES ARE NOT INDICATED ON PLANS FOR CLARITY. SIZE EACH TO SUIT RESPECTIVE FIXTURE.
- WATER PIPING INSTALLED IN UNCONDITIONED SPACE SHALL BE INSULATED WITH FIBERGLASS INSULATION WITH A MINIMUM R VALUE OF 6.5.
- INSULATE HOT WATER MAIN DISTRIBUTION PIPING WITH 1 INCH THICK AND ALL RUNOUTS WITH 1/2 INCH THICK FIBERGLASS OR CLOSED CELL FOAM.
- WATER PIPING ON OUTSIDE WALLS AND IN ATTIC SHALL BE LOCATED BETWEEN BUILDING INSULATION AND CONDITIONED SPACE.
- GATE OR BALL VALVES SHALL BE USED FOR SHUT-OFF DUTY AND GLOBE OR BALL VALVES SHALL BE USED FOR THROTTLING DUTY. VALVES SHALL BE CLASS 125 WITH BRONZE BODY & BONNET.
- INSTALL PIPE SLEEVES WITH MECHANICAL SLEEVE SEALS AT PENETRATIONS THROUGH FOUNDATION WALLS REQUIRING WATERTIGHT INSTALLATION.
- INSTALL PIPE SLEEVES WITH FIRE SEAL AT PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS AND CEILINGS.
- PROVIDE MECHANICAL WATER HAMMER ARRESTORS AS SHOWN ON PLANS.
- PROVIDE INSULATION EQUAL TO MCGUIRE PROWRAP ON P-TRAP ASSEMBLIES AND HOT WATER PIPING FOR LAVATORIES WITH EXPOSED PIPING.
- VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
- INSTALL PLUMBING FIXTURES AND EQUIPMENT LEVEL & PLUMB. ROUTE PIPING PARALLEL & PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS.
- INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE & REPAIR IN ACCORDANCE WITH MFGS. WRITTEN INSTALLATION INSTRUCTIONS AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS.
- ALL FIXTURES & EXPOSED SURFACES SHALL BE WASHED & CLEANED AND PAINTED SURFACES SHALL BE TOUCHED UP TO MATCH FACTORY APPLIED FINISHES.
- PLUMBING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NC STATE BUILDING CODE VOLUME II, SECTION 311.
- GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1 YEAR AFTER DATE OF ACCEPTANCE.

SEAL

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PROJECT NO.

97038

PROJECT MGR.

R. BROWN

DRAWN BY

C. MELTON

DATE

9/23/97

REV/DAT

DESCRIPTION

DRAWING TITLE

PLUMBING SCHEDULES,
NOTES & LEGEND

PROJECT/LOCATION

DIMON INTERNATIONAL, INC. OFFICE RENOVATION
FARMVILLE, NORTH CAROLINA

SCALE

NONE

SHEET NO.

P3.1

OF 4

REV. Δ