PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE TYPE	FLUSH / FAUCET / VALVE	TRIM AND REMARKS	TRAP SIZE	MIN. SIZE CONN. SW	SV	CW	HW
WC-1	WATER CLOSET, ADA, WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, 1-1/2" TOP SPUD, SIPHON JET ACTION, AMERICAN STANDARD 3043-001 OR EQUAL.	1.6 GPF, INTEGRAL VACUUM BREAKER, SCREWDRIVER/CHECK STOP, ZURN Z6000AV OR EQUAL. PROVIDE TRAP PRIMER OPTION WHERE REQUIRED.	SEAT TO BE ELONGATED, OPEN FRONT, SOLID PLASTIC WITH SELF SUSTAINING CHECK HINGES, COLOR WHITE, BEMIS 1955SSC.	INT.	4"	2"	1"	---
WC-2	WATER CLOSET, REGULAR, WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, 12" ROUGH-IN, AMERICAN STANDARD MODEL 2462.016 OR EQUAL.	FLUSH TANK	SEAT TO BE ELONGATED, OPEN FRONT, SOLID PLASTIC WITH SELF SUSTAINING CHECK HINGES, COLOR WHITE, BENEKE 521. RIM HEIGHT TO BE 15"AFF.	INT.	3"	2"	1/2"	---
L-1	LAVATORY, ADA APPROVED, COUNTERTOP, WHITE VITREOUS CHINA, DROP-IN, 19-1/4"x16-1/4", KOHLER K-2906.	CAST BRASS, BLADE HANDLES, 0.5 GPM AERATOR AMERICAN STANDARD MODEL 5502.140-V05 WITH GRID DRAIN.	1-1/4" GRID WITH TAILPIECE, ZURN Z8743-PC. P-TRAP TO BE 1-1/2" BRASS (17 GA. MIN), ZURN ZR361-RB. PROVIDE STOPS, ZURN Z8800 SERIES. PROVIDE TRUBRO "LAV-GUARD INSULATION ON ALL EXPOSED TRIM.	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"
S-1	SINK, 1-COMP, STAINLESS STEEL (TYPE 304, 18 GA.), SELF RIMMING, 1 HOLE DRILLED, DAYTON DSESR12722 OR EQUAL.	POLISHED CHROME, AMERICAN STANDARD 4332.400 OR EQUAL. DRAIN/STRAINER 647003.	PROVIDE APPLICABLE WHEEL HANDLE STOPS AND SUPPLIES, ZURN Z8800 SERIES.	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"
SH-1	TILE SHOWER, REGULAR	SHOWER VALVE, DELTA 1323-WS OR EQUAL. SHOWERHEAD, MOEN 3838 OR EQUAL. SHOWER TRIM, DELTA 1323 (LESS SHOWERHEAD) OR EQUAL.	PROVIDE KOHLER K-7213-CP DRAIN. REFER TO ARCH SERIES FOR MOUNTING HEIGHTS. PROVIDE BLOCKING FOR SUPPORT & INSTALL PER MANUFACTURER RECOMMENDATIONS.	2"	2"	2"	1/2"	1/2"
MB-1	MOP BASIN, GRAY PRECAST TERRAZZO, 12"DEEP, 24"X24", STERN WILLIAMS COMPANY SBC-1700.	SERVICE SINK FAUCET, CHROME PLATED, STERN WILLIAMS T-10-VB.	PROVIDE 3"CAST BRASS CHROME-PLATED STRAINER, STAINLESS STEEL CAP, HOSE AND WALL HOOK, SPLASH CATCHER PANELS, AND MOP HANGER BRACKET. PROVIDE 3" P-TRAP.	3"	3"	2"	3/4"	3/4"
DF-1	DUAL HEIGHT ELECTRIC WATER COOLER, ADA COMPLIANT, WALL HUNG WITH 8.0 GPH CAPACITY OF 50°F DRINKING WATER AT 80°F INLET AND 90°AMBIENT TEMPERATURE, ELKAY EZSTL8WSLK OR EQUAL. SEE ARCH SERIES FOR MOUNTING HEIGHTS.	--	PUSH BARS AND PUSHBAR ATTACHMENT HARDWARE TO BE METAL. FOUNTAIN AND CABINETS TO BE SATIN STAINLESS STEEL. P-TRAP TO BE 1-1/2" BRASS (17 GA. MIN), ZURN ZR365-PC. PROVIDE SUPPLIES AND STOPS. INSTALL CONCEALED FLOOR MOUNTED ARM CARRIER.	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"
NFHB-1	WALL HYDRANT (NON-FREEZE), KEY OPERATED WITH CHROME PLATED FACE, INTEGRAL VACUUM BREAKER, WATTS HY-420.	--	3/4" HOSE CONNECTION, ALL BRONZE HEAD, SEAT CASTING AND INTERNAL WORKING PARTS, GALVANIZED WALL CASING AND HYDRANT KEY.	--	--	--	3/4"	--
IM-1	REFRIGERATOR ICE MAKER BOX CONNECTION. GUY GRAY BIM876.	--	CHROME PLATED WALL ELBOW, DELTA 50560.	--	--	--	1/2"	--

DRAIN & CLEANOUT SCHEDULE

TAG	DESCRIPTION
FD-1	FLOOR DRAIN: (STANDARD) CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL CLAMPING COLLAR, SEEPAGE OPENINGS, ADJUSTABLE 5" DIAMETER NICKEL BRONZE STRAINER WITH VANDAL PROOF SCREW AND 1/2" PLUGGED PRIMER TAP, WADE W-1103STD5-TY. SET TOP OF DRAIN 1/2" BELOW FINISHED FLOOR ELEVATION.
HD-1	HUB DRAIN (STANDARD): CAST-IRON HUB DRAIN. PROVIDE TRAP UNLESS OTHERWISE NOTED. SET TOP OF DRAIN 1/2" AFF.
WCO	WALL ACCESS COVER: ROUND STAINLESS STEEL ACCESS COVER WITH 1/4-20 X 3-1/2" CENTER SCREW TO BE USED WITH COUNTERSINK CLEANOUT PLUG WITH A 1/4"-20 TAPPED HOLE EQUAL TO WADE W-8480R8.
FCO	FLOOR CLEANOUT: CAST IRON CLEANOUT W/ THREADED, ADJUSTABLE HOUSING, FLANGED FERRULE W/ TAPERED BRASS PLUG, ROUND SECURED NICKEL BRONZE SCORIATED TOP. EQUAL TO WADE W-6000-TY.
GCO	GRADE CLEANOUT: CAST IRON CLEANOUT W/ THREADED, ADJUSTABLE HOUSING, FLANGED FERRULE W/ TAPERED BRASS PLUG, ROUND SECURED NICKEL BRONZE VENEER TRACTOR TYPE COVER WITH SECURITY CREWS. EQUAL TO WADE W-6004Z-179-TY.

NOTES:
1. TAP AND TEST "T" SHALL NOT BE USED FOR WALL CLEAN-OUTS.

WATER HEATER SCHEDULE - ELECTRICAL

TAG	QTY.	MANUFACTURER	MODEL	LOCATION	SYSTEM	ELECTRICAL CHARACTERISTICS	RECOVERY (GPH) (80°F RISE)	STORAGE (GALLONS)	REMARKS
WH-1	1	BRADFORD-WHITE	LD-40S3-3	MECH	DOM HW	3.0 KW/208V/1ϕ/60Hz.	15	40	1

1 PROVIDE CONTROL TRANSFORMER AND DISCONNECT. T&P AND DRAIN PAN PIPING TO BE ROUTED TO FLOOR DRAIN.

LEGEND

LINE TYPE	DESCRIPTION
	SANITARY WASTE (SW)
GW	GREASE WASTE (GW)
	SANITARY VENT (SV)
	COLD WATER (CW)
	HOT WATER (HW)
RD	ROOF DRAIN (RD)
OD	OVERFLOW DRAIN (OD)
CD	CONDENSATE DRAIN (CD)

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
CO	CLEANOUT
CONC	CONCRETE
DN	DOWN
DWG	DRAWING
ELEV	ELEVATION
ELEC	ELECTRICAL
FF	FINISHED FLOOR
FCO	FLOOR CLEANOUT
MECH	MECHANICAL
REQD	REQUIRED
SECT	SECTION
STRUCT	STRUCTURAL
TYP	TYPICAL
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTER

SYMBOLS

PIPE TURNED DOWN	
PIPE TURNED UP	
SOLENOID VALVE	S
CAP	E
BALANCING VALVE	
BALL VALVE	
CHECK VALVE	
HOSE FAUCET	
VENT THRU ROOF (VTR)	
CONNECT TO EXIST. PIPING	
KEY NOTE NUMBER	00
ROOM NUMBER	123

PLUMBING NOTES:

1. ONLY KNOWN SERVICES IN THE PROJECT AREA ARE SHOWN IN DRAWING SET. CONTRACTOR TO FIELD VERIFY EXACT CONDITIONS PRIOR TO BEGINNING WORK.

2. CONTRACTOR SHALL COORDINATE THE DISRUPTION OF ANY SERVICE WITH THE LOCAL OWNER'S REPRESENTATIVE A MINIMUM OF 72 HOURS PRIOR TO DISRUPTION.

3. CONTRACTOR SHALL COORDINATE EQUIPMENT CONNECTIONS WITH EQUIPMENT DRAWINGS AND SUPPLIER. CONTRACTOR SHALL INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS FURNISHING CUTOFF VALVES, P-TRAPS, PRESSURE REDUCING VALVES, AND PIPING AS REQUIRED.

4. CONTRACTOR SHALL FURNISH AND INSTALL SHOCK ABSORBERS ON PIPING SERVING FLUSH VALVE FIXTURES AND/OR QUICK CLOSING VALVES (SOLENOID OPERATED, ETC.) IN ACCORDANCE WITH "PLUMBING AND DRAINAGE INSTITUTE" (PDI-WH-201) GUIDELINES.

5. CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES INVOLVED TO AVOID ANY PIPE ROUTING PROBLEMS. IN THE EVENT CONFLICTS ARE ENCOUNTERED WHICH CANNOT BE RESOLVED BY THE TRADES INVOLVED, THE ARCHITECT SHALL BE CONSULTED AND HIS DECISION SHALL GOVERN.

6. ALL VENTS SHALL BE A MINIMUM OF 15'-0" AWAY FROM ALL FRESH AIR INTAKES FOR AIR HANDLING UNITS.

7. WHERE ROOF PENETRATIONS OF VENTS AND WASTE STACKS LESS THAN THREE INCHES (3") ARE PROHIBITED BY CODE. PROVIDE INCREASERS IN PIPE BELOW ROOF SLAB.

8. FURNISH AND INSTALL DEEP SEAL P-TRAPS ON FLOOR DRAINS NOT FED BY AN AUTOMATIC TRAP PRIMER SYSTEM, WHERE REQUIRED BY CODE.

9. ALL FIXTURES, EQUIPMENT AND PIPING SHOWN ON THESE DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.

10. PENETRATIONS THROUGH NEW WALLS AND FLOORS SHALL BE SLEEVED AND/OR PATCHED AS DIRECTED BY THE SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.

11. ALL NEW PIPE PENETRATIONS OF FIRE RATED WALLS, AS SHOWN BY THE LIFE SAFETY PLANS, SHALL HAVE A UL LISTED F RATING EQUAL TO THE WALL FIRE RATING.

12. ALL WORK SHOWN IS PART OF BASE BID EXCEPT WHERE OTHERWISE DESIGNATED.

13. SEISMICALLY BRACE ALL PIPE AS REQUIRED BY LOCAL CODE REQUIREMENTS.

14. PIPING SHALL NOT BE INSTALLED OVER ELECTRICAL EQUIPMENT.

15. CAULK AROUND ALL PLUMBING FIXTURES. CAULK COLOR SHALL MATCH PLUMBING FIXTURE COLOR.

16. EXACT LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR. ALL REQUIRED CONDENSATE PIPING SHALL BE COORDINATED WITH THIS EQUIPMENT.

17. SANITARY SEWER PIPING SHALL BE SLOPED AS FOLLOWS: 4" SANITARY WASTE PIPING AND LARGER SHALL BE ROUTED AT 1/8" PER FOOT MINIMUM. 3" SANITARY WASTE PIPING AND SMALLER SHALL BE ROUTED AT 1/4" PER FOOT MINIMUM.

18. CONTRACTOR TO PROVIDE PROPERLY SIZED ISOLATION VALVES AT ALL DOMESTIC WATER BRANCH PIPING AND ALL DOMESTIC WATER PIPING SERVING INDIVIDUAL FIXTURES OR RESTROOMS. VALVES TO BE INSTALLED IN AN ACCESSIBLE LOCATION ABOVE TILE CEILING.

19. CONTRACTOR TO PROPERLY BALANCE DOMESTIC HOT WATER AND HOT WATER RETURN SYSTEMS. CONTRACTOR TO PROVIDE BALANCING VALVES ON HOT WATER RETURN PIPING AS NECESSARY.

20. WALL CLEANOUTS INSTALLED IN LARGE BACK TO BACK RESTROOMS IN THE BUILDING SHALL BE INSTALLED WITH ACCESS FROM THE BOYS' RESTROOM SIDE.

21. CONTRACTOR SHALL ESTABLISH A SEQUENCE OF INSTALLATION WITH OTHER TRADES WORKING ON THE PROJECT. CONTRACTOR SHALL THOROUGHLY COORDINATE ALL SYSTEMS WITH OTHER TRADES.

22. CATHODIC PROTECTION, IF REQUIRED, IS THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL PROTECT ALL UNDERGROUND METALLIC PIPING FROM CORROSION. REFER TO SOILS REPORT. UNDERGROUND PIPING MAY ALSO BE PROTECTED WITH POLYETHYLENE ENCASEMENT CONFORMING TO ANSI/AWWA REQUIREMENTS. ALL PIPING SHALL BE WRAPPED COMPLETELY WITH ENCASEMENT TO A POINT AT LEAST 12 A.F.G OR FIN. FLOOR. ENCASEMENT SHALL BE FREE OF TEARS WITH ALL JOINTS COMPLETELY SEALED. NO PORTION OF THE PIPE SHALL BE LEFT EXPOSED TO CORROSIVE SOIL.

23. NO PLASTIC PIPING SHALL BE ROUTED IN A RETURN AIR PLENUM.

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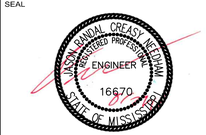

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CONSULTANTS

HNA Engineering, pllc

ISSUES & REVISIONS

NO.	DATE	DESCRIPTION
1	08/11/2015	Review Set
2	08/24/2015	Bid Set

PROJECT NAME:

PROJECT NUMBER:

DRAWING NAME:

LEGEND, NOTES, & SCHEDULE - PLUMBING

DRAWN BY: MDP
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SCALE: AS NOTED

DRAWING NUMBER

P001

SPECIFICATIONS - PLUMBING

A. MATERIALS AND WORKMANSHIP
1. THE PLUMBING PLANS ARE DIAGRAMMATIC AND NOT TO BE SCALED.
2. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS, AND SHALL FIT THE WORK ACCURATELY TO THE BUILDING.

B. PERMITS AND FEES
1. THE CONTRACTOR SHALL MAKE APPLICATION, AND PAY ALL RELATED FEES AND COSTS FOR PERMITS, INSPECTIONS, AND TESTS AS REQUIRED BY THE LOCAL AUTHORITY. INCLUDE COSTS IN CONTRACT PRICE.

D. DRAINAGE SYSTEMS
1. FURNISH AND INSTALL ALL SOIL, WASTE, VENT, AND DRAIN PIPING AS INDICATED.
2. ALL ABOVE GRADE STORM DRAIN, SOIL, WASTE, VENT, AND DRAIN PIPING SHALL BE SERVICE WEIGHT NO-HUB CAST IRON OR DWV SCH. 40 PVC. FIXTURE PIPING EXPOSED IN FINISHED AREAS SHALL BE CHROME PLATED BRASS. FITTINGS SHALL BE DRAINAGE PATTERN AND OF THE SAME MATERIAL AS THE PIPING.
3. INDIRECT WASTE AND CONDENSATE DRAIN PIPING SHALL BE DWV COPPER. ALL FITTINGS SHALL BE DRAINAGE PATTERN AND OF THE SAME MATERIAL AS THE PIPING.
4. SOIL, WASTE, VENT AND DRAIN PIPING SHALL BE SUBJECTED TO A WATER TEST OF NOT LESS THAN TEN FEET OF HYDROSTATIC HEAD FOR A PERIOD OF NOT LESS THAN THIRTY MINUTES PRIOR TO THE CONNECTION TO THE EXISTING SYSTEM.

E. WATER PIPING (DOMESTIC)
1. HOT, HOT RETURN, AND COLD WATER PIPING SHALL BE TYPE 'L' COPPER ABOVE GRADE.
2. FITTINGS SHALL BE WROT COPPER.
3. TEST WATER PIPING AT 125 PSI FOR A PERIOD OF 24 HOURS PRIOR TO THE CONNECTION TO THE EXISTING SYSTEM.

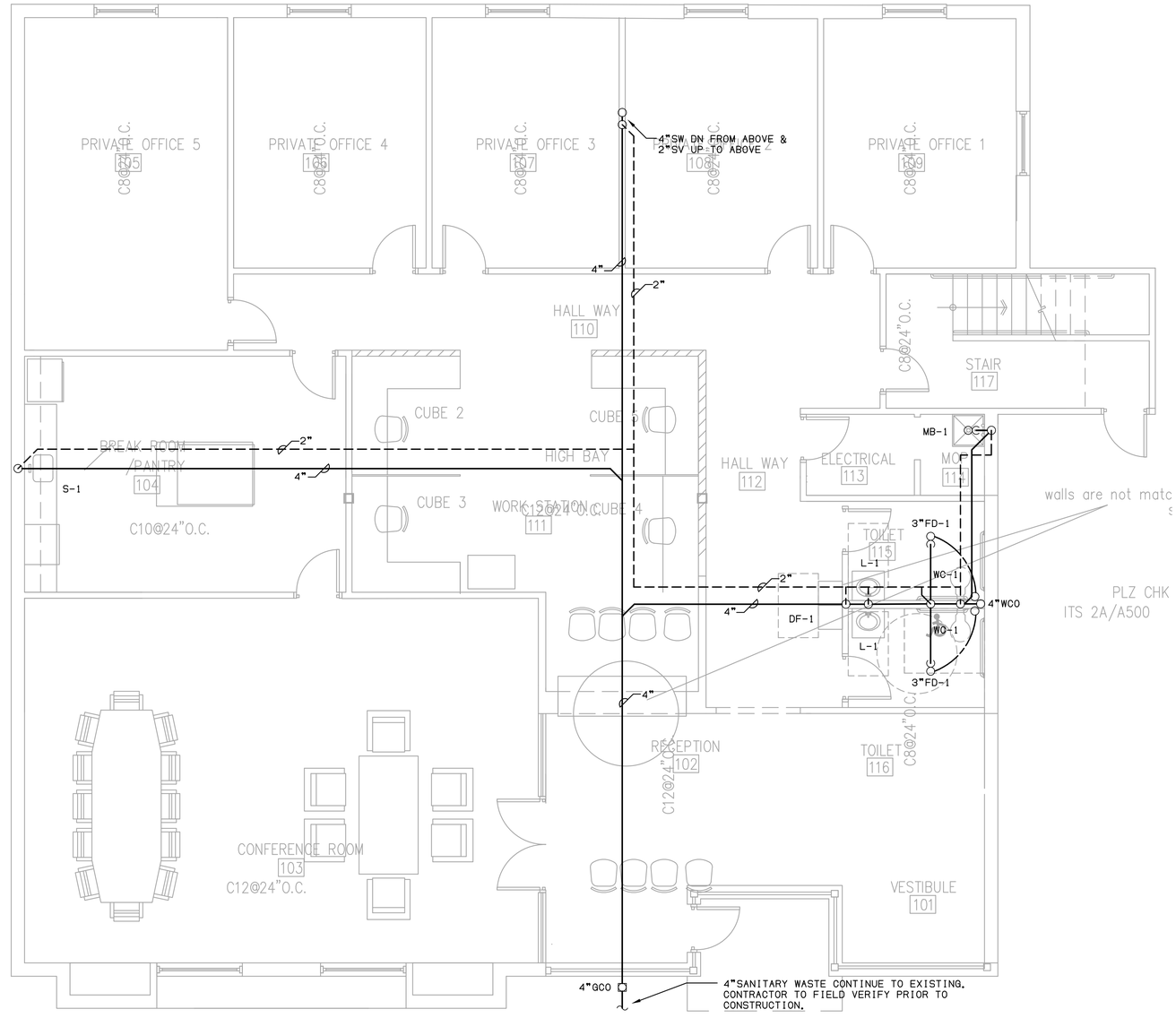
F. PIPE JOINTS
1. JOINTS IN CAST-IRON SOIL, WASTE AND VENT PIPING ABOVE GRADE SHALL BE MADE WITH NO-HUB CLAMPS.
2. JOINTS IN DWV PVC PIPING SHALL BE MADE WITH SOLVENT WELD.
3. JOINTS IN COPPER PIPING ABOVE GRADE SHALL BE SOLDERED JOINTS MADE WITH GRADE 95 TA LEAD-FREE SOLDER WITH A NON-CORROSIVE, PETROLEUM-BASED FLUX AS RECOMMENDED BY THE PIPE MANUFACTURER.
4. JOINTS IN STEEL PIPING SHALL BE THREADED AND MADE WITH STANDARD FITTINGS WITH A WORKING PRESSURE OF 165 PSI.
5. JOINTS BETWEEN PIPING OF DISSIMILAR MATERIALS SHALL BE MADE USING DIELECTRIC UNIONS.

G. BALL VALVES
1. VALVES SHALL BE BRONZE OR BRASS THROUGHOUT.
2. VALVES SHALL BE RATED FOR 125 PSI, AND BE MADE BY NIBCO OR EQUAL.

H. INSULATION
1. COLD WATER AND CONDENSATE DRAIN PIPING ABOVE GRADE SHALL BE COVERED WITH 1/2" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET.
2. HOT WATER SUPPLY AND RETURN PIPING ABOVE GRADE SHALL BE COVERED WITH 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET.

I. HANGERS
1. HANGERS FOR COPPER PIPING SHALL BE CLEVIS OR SPLIT-RING AS MANUFACTURED BY GRINNELL OR EQUAL, AND SHALL BE COPPER-CLAD OR PVC-COATED TO PREVENT GALVANIC CORROSION.
2. HANGERS FOR SOIL, WASTE, VENT AND DRAIN PIPING SHALL BE CLEVIS HANGERS AS MANUFACTURED BY GRINNELL OR EQUAL.

J. CLEAN-UP
1. AFTER ALL FIXTURES HAVE BEEN SET, INSPECTED, AND TESTED THEY SHALL BE THOROUGHLY CLEANED BY THE PLUMBING CONTRACTOR PRIOR TO LEAVING THE SITE.



1 FLOOR PLAN - D.W.V. PLUMBING
1/4" = 1'-0"

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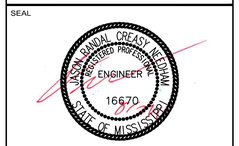

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DRAWING NAME:
SPECIFICATIONS & FLOOR PLAN - PLUMBING

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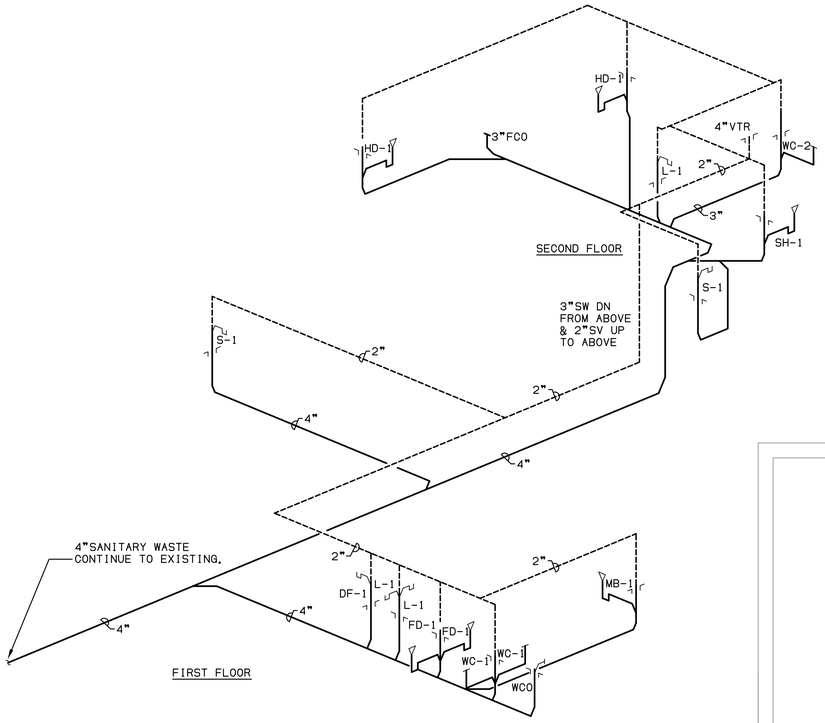
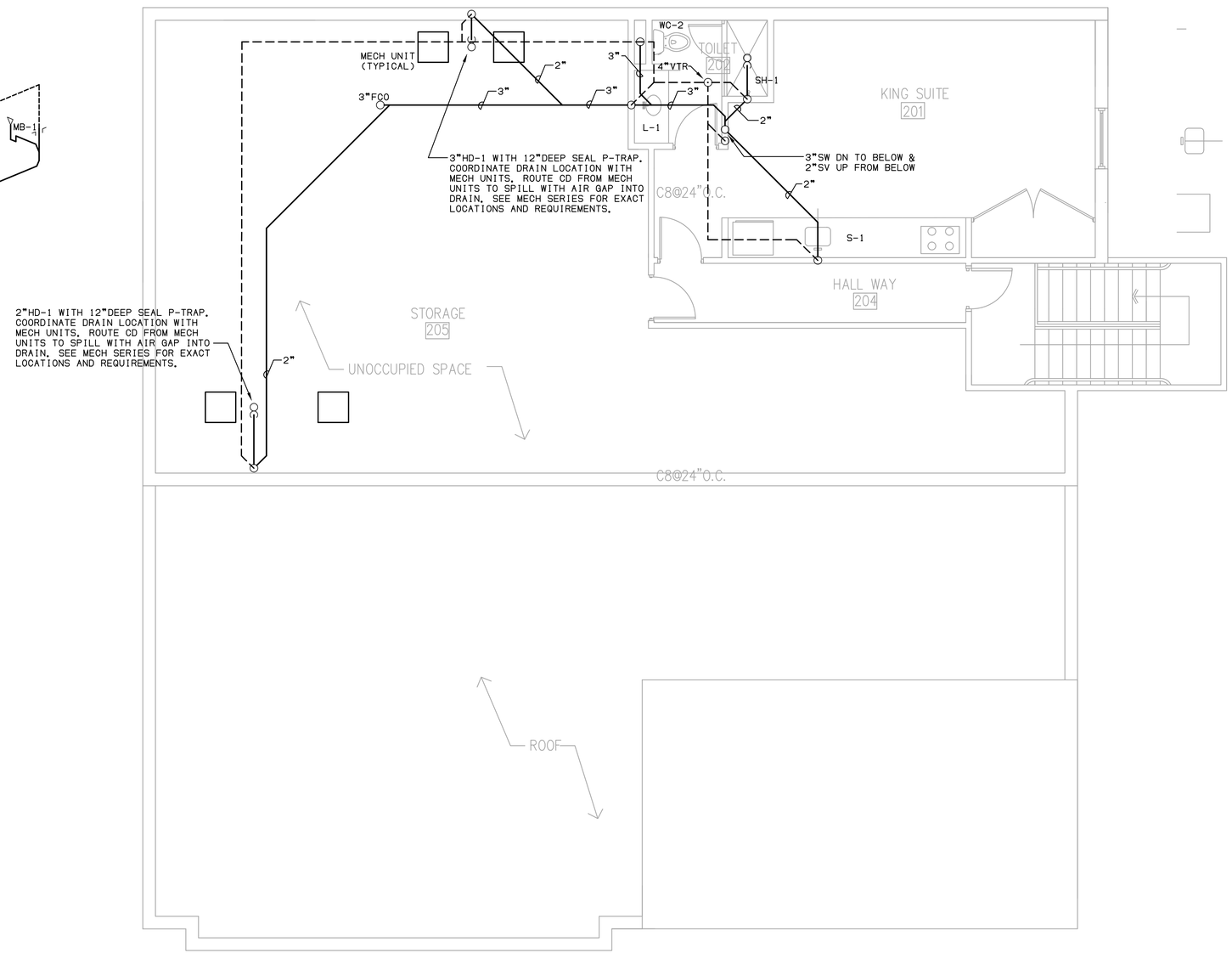
P101



② RISER DIAGRAM - D.W.V. PLUMBING

NOT TO SCALE



① SECOND FLOOR PLAN - D.W.V. PLUMBING

1/4" = 1'-0"

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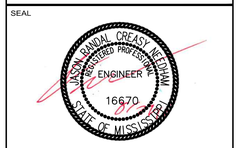

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DRAWING NAME:

RISER DIAGRAM &
FLOOR PLAN -
PLUMBING

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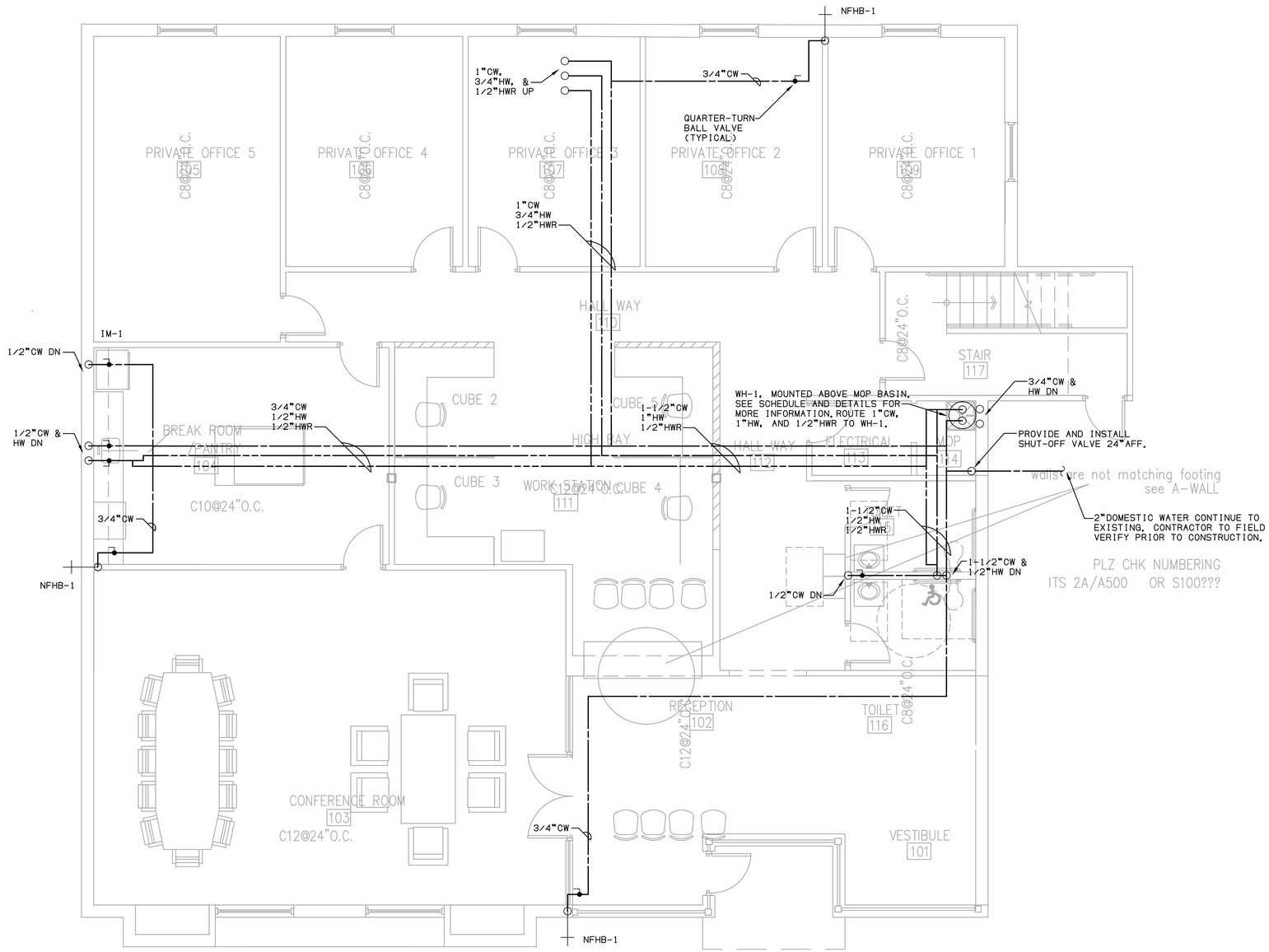

① FIRST FLOOR PLAN - DOMESTIC WATER PLUMBING

1/4" = 1'-0"

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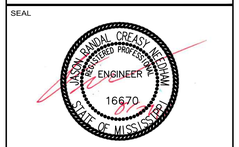

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DRAWING NAME:

FLOOR PLAN - PLUMBING

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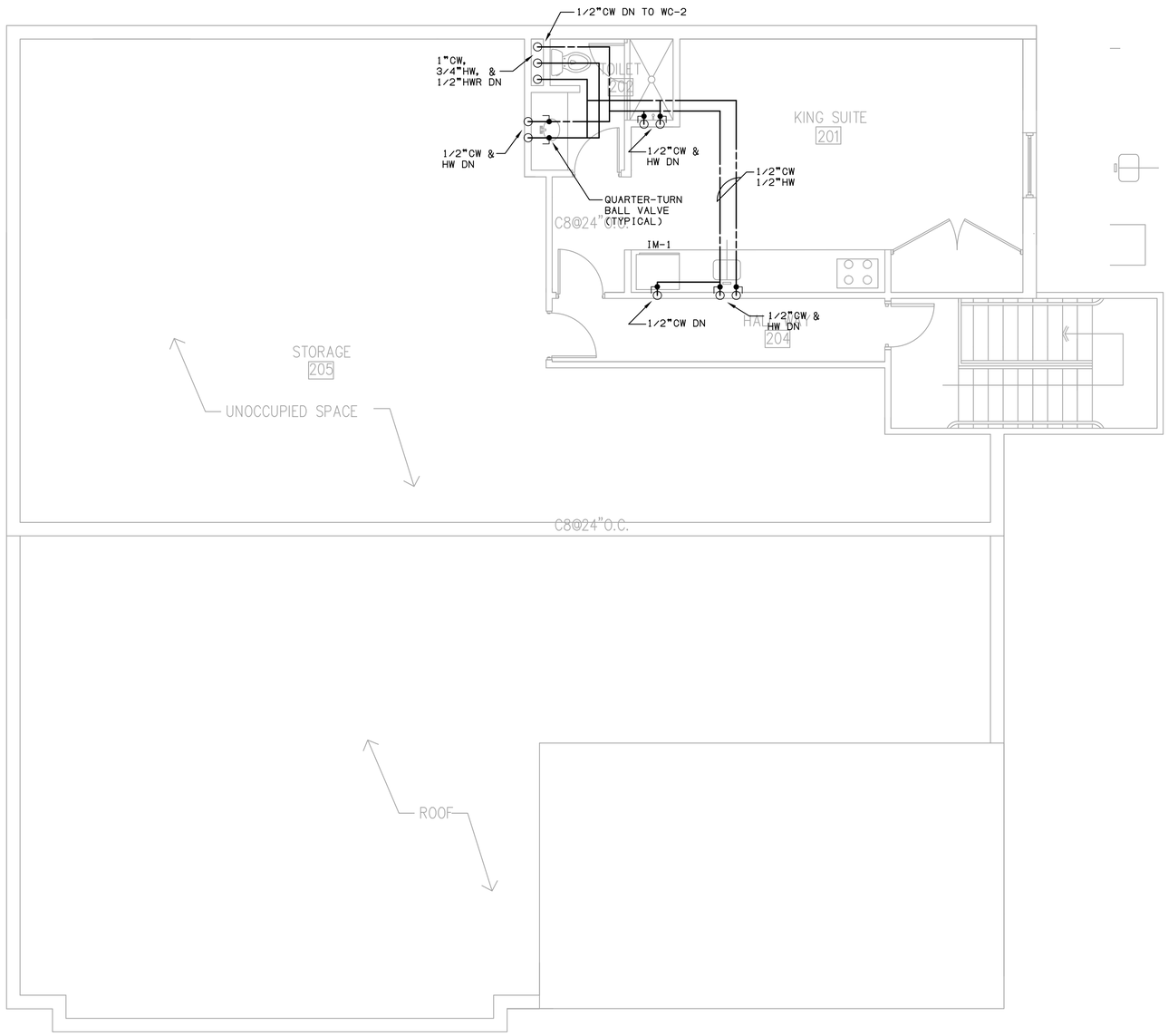

1 SECOND FLOOR PLAN - DOMESTIC WATER PLUMBING

1/4" = 1'-0"

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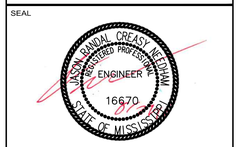

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CONSULTANTS

HNA Engineering, pllc

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NO.	DATE	DESCRIPTION
1	08/11/2015	Review Set
2	08/24/2015	Bid Set

PROJECT NAME:

PROJECT NUMBER:

DRAWING NAME:

FLOOR PLAN - PLUMBING

DRAWN BY: MDP
CHECKED BY: MDP
DATE: 08-24-15
SCALE: AS NOTED

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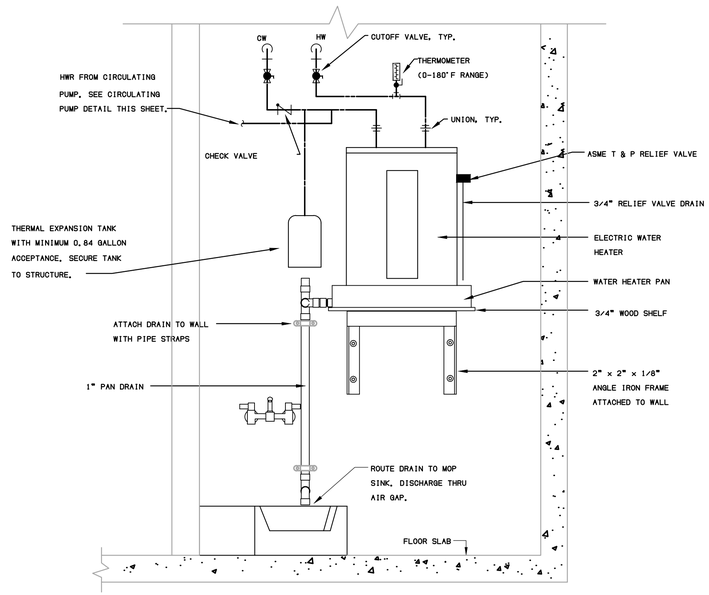
P104



1 WH-1 DETAIL
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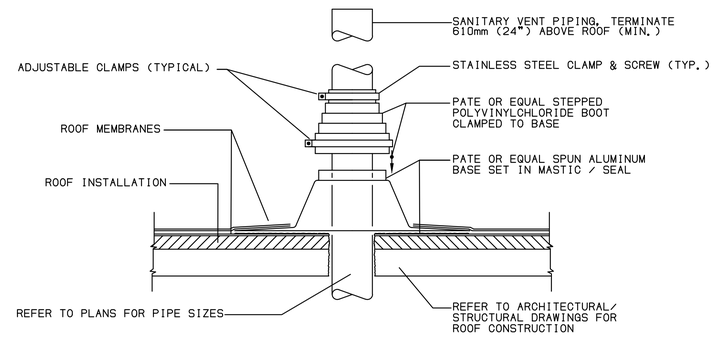

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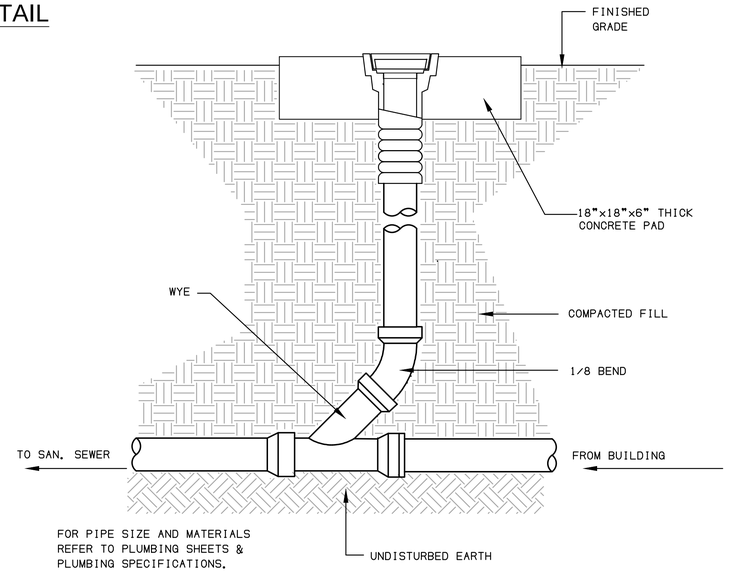

3 GRADE CLEANOUT DETAIL
NOT TO SCALE

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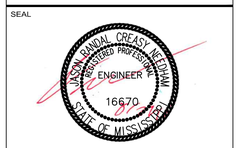

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DETAILS -
PLUMBING

DRAWN BY: MDP
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