

PLUMBING NOTES:

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND SHALL REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS THAT WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK.
- IN THE EVENT OF ANY DISCREPANCY BETWEEN THE DEMOLITION PLAN AND THE CONSTRUCTION PLANS, CONSTRUCTION PLANS AND INTENT SHALL GOVERN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING WITH BUILDING MANAGEMENT FOR HANDLING MATERIALS, AS WELL AS FOR ALLOWABLE WORKING HOURS AND DELIVERIES.
- PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH RESPECT TO OTHER TRADES, STRUCTURE AND CEILING HEIGHTS. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL LAYOUTS, INCLUDING CEILING HEIGHTS.
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AND MANUFACTURERS' CUTS AND SAMPLES TO ARCHITECT PRIOR TO COMMENCEMENT OF SUCH WORK.
- DRAWINGS ARE NOT TO BE SCALED.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL BUILDING DEPARTMENT REGULATORY AGENCIES, BUILDING STANDARDS AND NEW YORK CODE REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS OF ALL TRADES.
- CONTRACTOR SHALL CARRY AND DOCUMENT LIABILITY, ACCIDENT AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY COOPERATIVE CORPORATION AND OBSERVE THEIR PERMITTED HOURS FOR WORK.
- CONTRACTOR SHALL EXERCISE EXTREME CARE IN PROTECTING AREAS ADJACENT TO CONSTRUCTION AREAS, SHALL FULLY PROTECT THEM FROM ANY DAMAGE RESULTING FROM CONTRACTOR'S WORKMEN, SUBCONTRACTORS OR AGENTS, AND SHALL BE RESPONSIBLE FOR REPAIRING, CLEANING OR REPLACING ANY SUCH DAMAGE.
- ALL DIMENSIONS GIVEN ARE FINISH DIMENSIONS UNLESS OTHERWISE STATED.
- UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, APPURTENANCES, EQUIPMENT AND SERVICES TO COMPLETE ALL WORK AS INDICATED ON DRAWINGS AND/OR SPECIFIED ON NOTES.
- UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FOLLOW MANUFACTURERS' DIRECTIONS, INSTRUCTIONS AND RECOMMENDATIONS FOR ALL MATERIALS AND PROCESSES USED IN THIS CONTRACT.
- UPON COMPLETION OF THE WORK, CONTRACTOR SHALL COMPLETELY CLEAN THE CONSTRUCTION AREA SUITABLE FOR THE OWNER'S USE.
- BUILDING DEPARTMENT APPROVED PLANS SHALL BE TURNED OVER TO OWNER AT THE COMPLETION OF THE JOB.
- AT THE FINAL COMPLETION OF THE JOB, CONTRACTOR SHALL SUBMIT TO THE OWNER AND TO ENGINEER A NOTARIZED AFFIDAVIT STATING COMPLIANCE WITH ALL PROVISIONS OF THIS CONTRACT, INCLUDING ALL NOTES, EXCEPT FOR THOSE CHANGES SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT.
- VACUUM BREAKER AND RELATED PIPING SHALL BE INSTALLED BEHIND WALL; PROVIDE AN ACCESS PANEL TO THE VACUUM BREAKER. ALL EXPOSED PIPING AT THE PANTRY SHALL BE STEEL WITH CHROME PLATED FINISH.
- CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT FOR ONE YEAR, STARTING FROM DATE OF FINAL COMPLETION OF ALL WORK.
- PROVIDE CLEANOUTS FOR CHANGES IN DIRECTION FOR ALL SANITARY PIPING.
- PLUMBING CONTRACTOR SHALL COORDINATE ALL FLOOR CORING SLEEVES AND FLOOR OPENINGS WITH STRUCTURAL DRAWINGS.
- ALL EXPOSED PIPING PENETRATIONS THROUGH WALLS OR CEILINGS SHALL BE PROVIDED WITH APPROPRIATE FIRE RETARDANT SEALANT AND ESCUTCHEONS.
- THE CONTRACTOR MUST MAKE ALLOWANCE FOR NECESSARY MODIFICATIONS TO EXISTING CONDITIONS TO PERFORM WORK.
- THE CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL EXISTING MAIN STACKS AND RISERS AND CONNECTIONS FROM EXISTING FIXTURES.
- THE EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
- COORDINATE THE NEW WATER, VENT AND SANITARY DRAINAGE PIPING CONNECTION TO THE EXISTING. THE CONTRACTOR SHALL MAKE THE NECESSARY PIPING MODIFICATIONS REQUIRED TO ACCOMMODATE THE CONNECTIONS.

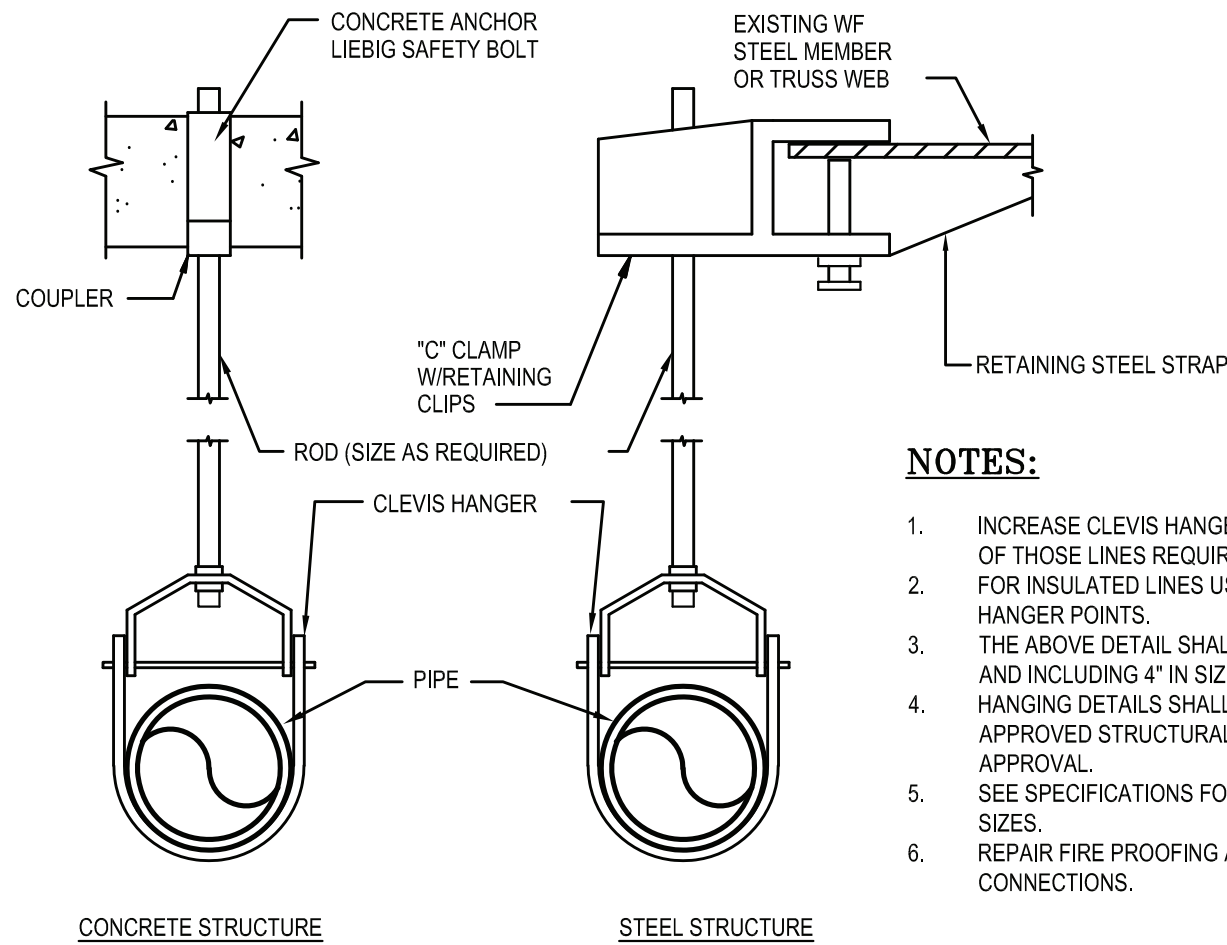
REMOVAL NOTES

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT.
- VERIFY ALL GOVERNING DIMENSIONS, PIPE SIZES AND LOCATION OF THE PIPING AND EQUIPMENT TO BE REMOVED.
- NOTIFY COLUMBIA UNIVERSITY AT LEAST 48 HOURS BEFORE DEMOLITION WORK OR BEFORE SHUT DOWN OF EXISTING SERVICES. RISER SHUT DOWNS SHALL BE PERFORMED AT DESIGNATED TIMES UNDER COLUMBIA UNIVERSITY'S SUPERVISION AND ONLY WITH APPROVAL.
- ALL FIXTURES, EQUIPMENT, PIPING, ETC. TO BE REMOVED, SHALL BE DISPOSED OF, RELOCATED, TURNED OVER TO THE TENANT OR SALVAGED AS DIRECTED BY THE ARCHITECT.
- UPON COMPLETION OF ALL NEW WORK NO ABANDONED PIPING SHALL REMAIN.
- THE EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
- LOCATIONS AND SIZES OF EXISTING PIPING ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED AT THE SITE.
- NO REMOVED EXISTING PIPING FITTINGS, VALVES, FIXTURES, ETC. SHALL BE REUSED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL CEILING HEIGHTS.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL FROM THE PREMISES OF ALL DEBRIS RESULTING FROM PLUMBING WORK.

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P-201.00	PLUMBING PLANS

PLUMBING SYMBOLS & ABBREVIATIONS			
CLG.	CEILING	----	EXISTING COLD WATER PIPING TO REMAIN
CW	COLD WATER	----	EXISTING HOT WATER PIPING TO REMAIN
DN	DOWN	----	EXISTING HOT WATER RETURN PIPING TO REMAIN
DR	DRAIN	----	EXISTING VENT PIPING TO REMAIN
FD	FLOOR DRAIN	----	EXISTING DRAINAGE PIPING TO REMAIN (W, L OR S)
FT	FOOT, FEET	////	EXISTING PIPING TO BE REMOVED
FU	FIXTURE UNIT	----	COLD WATER PIPING (CW)
HW	HOT WATER	----	HOT WATER PIPING (HW)
IW	INDIRECT WASTE	----	HOT WATER RETURN PIPING (HWR)
LAV	LAVATORY	----	DRAINAGE PIPING ABOVE GROUND
MS	MOP SINK	----	SANITARY (SAN)
NTS	NOT TO SCALE	----	VENT PIPING (V)
PG	PRESSURE GAUGE	----	HEAT TRACED PIPING
PLBG	PLUMBING	----	DIRECTION OF FLOW
PS	PANTRY SINK	----	PIPE-UP UNLESS OTHERWISE NOTED
S	SOIL	----	PIPE DROP UNLESS OTHERWISE NOTED
SA	SHOCK ABSORBER	----	DROP OR RISE
SAN	SANITARY	----	TOP CONNECTION
SF	SQUARE FOOT (FEET)	----	BOTTOM CONNECTION
SH	SHOWER	----	VALVED CAPPED OUTLET
SPECS.	SPECIFICATIONS	----	NEW CONNECTION
SQ.FT.	SQUARE FOOT (FEET)	----	
SS	SERVICE SINK	----	
STD	STANDARD	----	SANITARY/WATER RISER DESIGNATION
TEMP	TEMPERATURE	----	
TYP	TYPICAL	----	POINT OF NEW CONNECTION
V	VENT	----	
W	WASTE	----	POINT OF DISCONNECTION
WC	WATER CLOSET	----	
WD	WATER DISPENSER	----	CLEANOUT (CO)
CM	COFFE MAKER	----	CLEANOUT DECK PLATE (CODP)
VA	VACUUM	----	TRAP
		----	GATE VALVE (GV)
		----	BALL VALVE (BV)
		----	CHECK VALVE
		----	O.S.&Y. VALVE
		----	EXISTING BALL VALVE
		----	VACUUM BREAKER (VB)
		----	WATER HAMMER ARRESTOR
		----	CONCENTRIC REDUCER
		----	TEMPERATURE & PRESSURE RELIEF VALVE (TP)
		----	PRESSURE GAUGE (PG)
		----	PIPE SLEEVE

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED ARE NECESSARILY WITHIN THE SCOPE OF WORK.

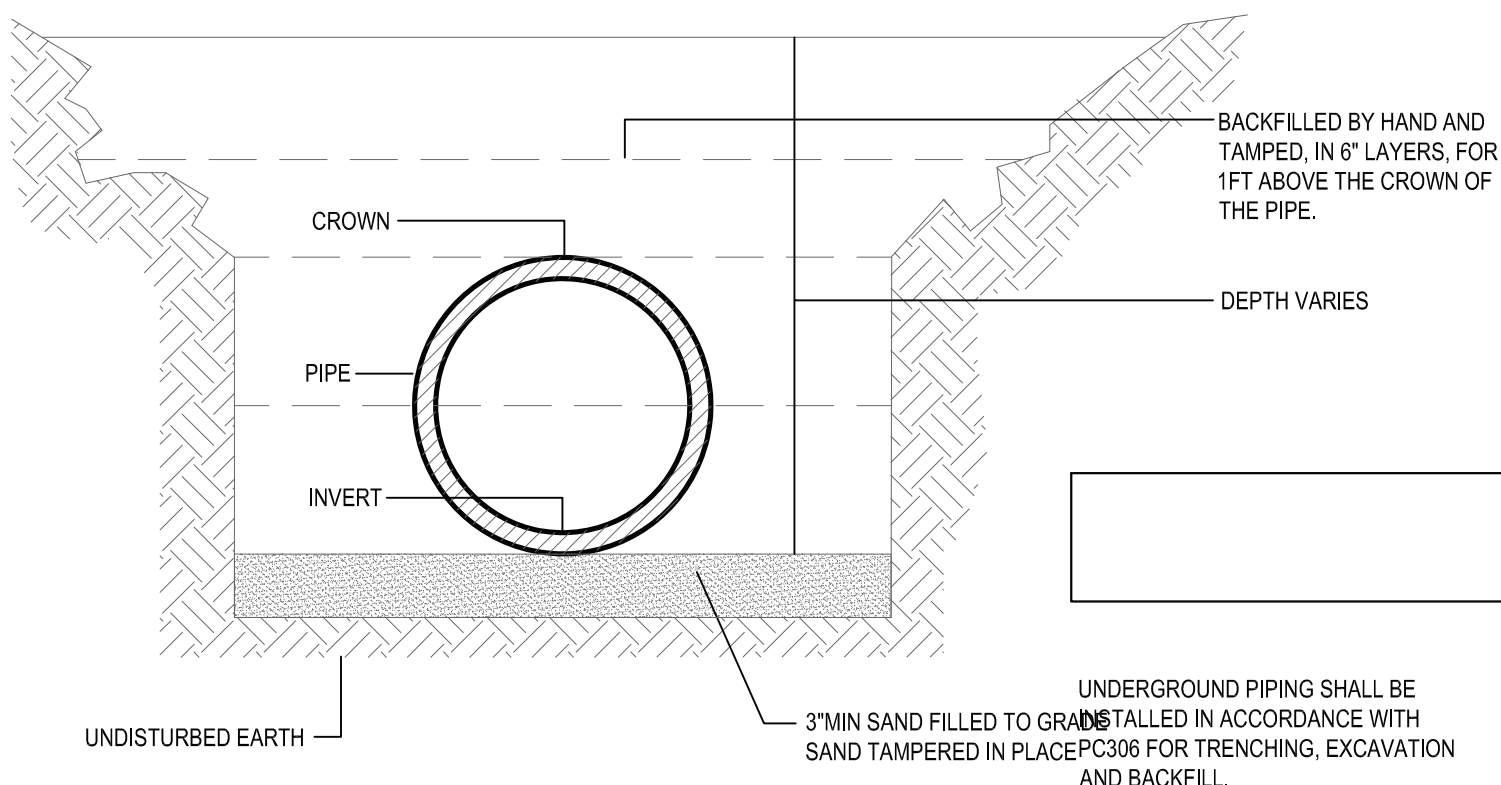


NOTES:

- INCREASE CLEVIS HANGER SIZE TO ALLOW FOR INSULATION OF THOSE LINES REQUIRING INSULATION.
- FOR INSULATED LINES USE STEEL PIPE SHIELDS AT HANGER POINTS.
- THE ABOVE DETAIL SHALL BE USED ONLY FOR LINES UP TO AND INCLUDING 4" IN SIZE.
- HANGING DETAILS SHALL BE SUBMITTED TO BUILDING APPROVED STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.
- SEE SPECIFICATIONS FOR HANGER SPACING AND ROD SIZES.
- REPAIR FIRE PROOFING AT REMOVED AND NEW SUPPORT CONNECTIONS.

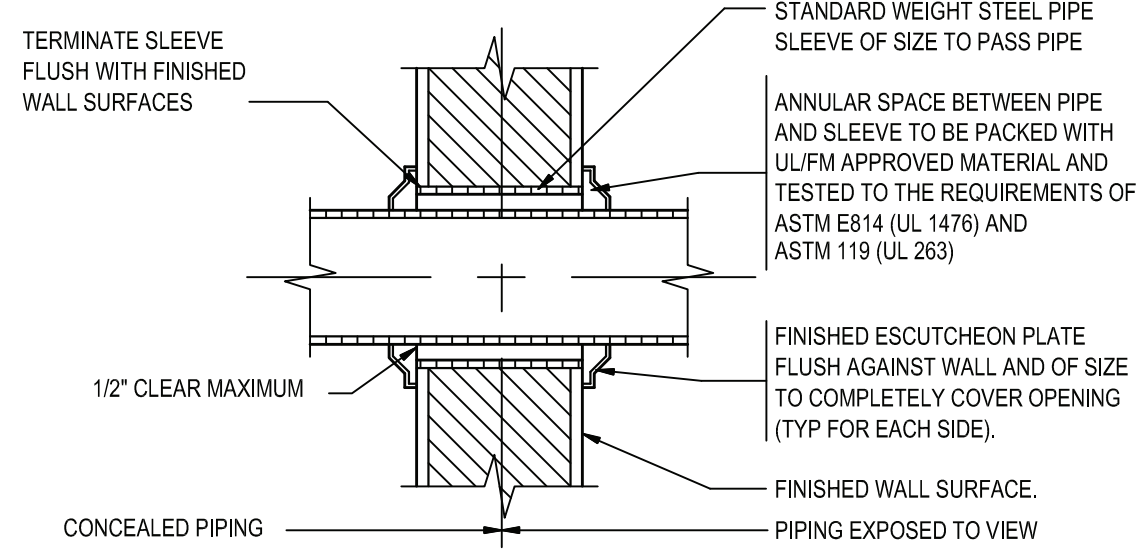
TYPICAL HANGER DETAILS

NOT TO SCALE



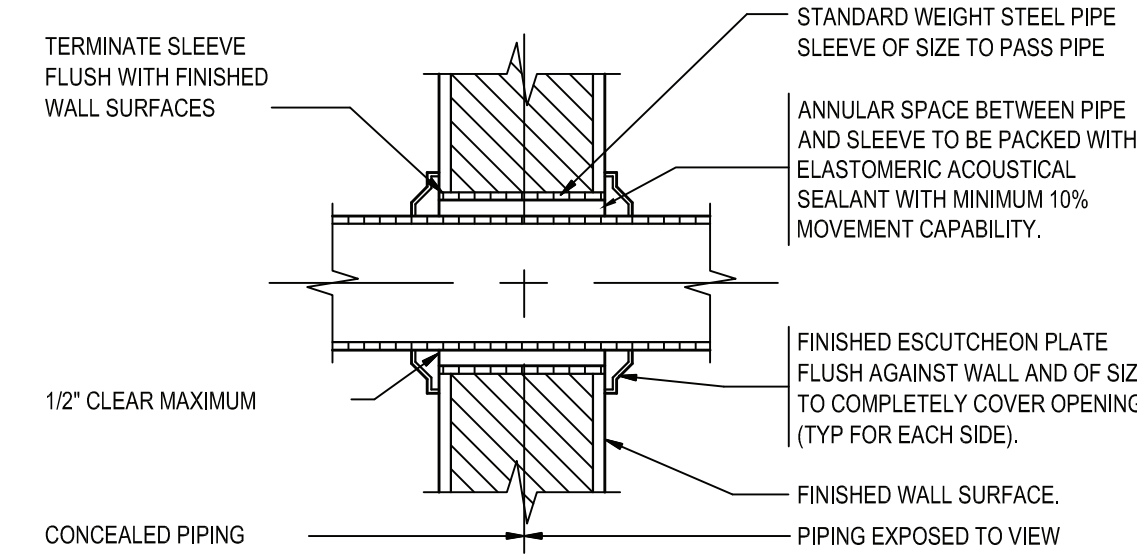
TRENCHING, EXCAVATION AND BACKFILL

NOT TO SCALE



DETAIL OF PIPE PENETRATING THRU FIRE RATED WALL AND FLOOR

NOT TO SCALE



DETAIL OF PIPE PENETRATING THRU NON FIRE RATED WALL

NOT TO SCALE

GENERAL NOTES

KEY NOTES

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Seal / Signature

Project Name

INTERVENTIONAL
RADIOLOGY - TARRYTOWN

Project Number

12491.000

Description

PLUMBING
NOTES, SCHEDULE, DETAILS
& RISER DIAGRAMS

Scale

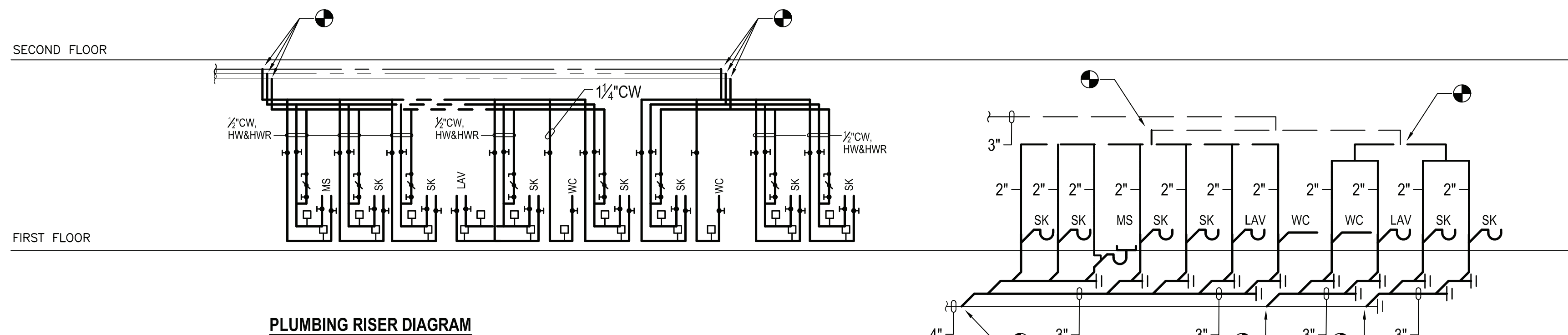
AS NOTED

P-001.00

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PLUMBING FIXTURE CONNECTION SCHEDULE						
CODE	DESCRIPTION	W	V	CW	HW	REMARKS
P-1	WATER CLOSET	4"	2"	1-1/4"	-	REFERT TO ARCHITECTURAL DRAWINGS FOR FAUCET AND SINK MODEL NUMBER
P-2	LAVATORY	2"	2"	3/4"	3/4"	REFERT TO ARCHITECTURAL DRAWINGS FOR FAUCET AND SINK MODEL NUMBER
P-3	LAB SINK UNDERCOUNTER	2"	2"	3/4"	3/4"	REFERT TO ARCHITECTURAL DRAWINGS FOR FAUCET AND SINK MODEL NUMBER
FD-1	FLOOR DRAIN	3"	2"	-	-	JR SMITH MODEL# 2210
NOTE: SEE PLUMBING SPECIFICATION FOR MORE FIXTURE & EQUIPMENT INFORMATION.						

MISCELLANEOUS EQUIPMENT SCHEDULE						
NO.	EQUIPMENT	NO. REQUIRED	LOCATION	CAPACITIES	MODEL NO.	REMARKS
TMV-1	THERMOSTATIC MIXING VALVE	2	-	3 GPM MAXIMUM 0.25 GPM MINIMUM 1 PSIG DROP	SIMILAR TO POWERS MODEL NO. LFE480	LEAD FREE



PLUMBING RISER DIAGRAM

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

DOB NOW JOB#