

PLUMBING LEGEND	
-----	COLD WATER PIPING (CW)
-----	HOT WATER PIPING (HW)
-----	HOT WATER RETURN PIPING (HWR)
---140'---	HOT WATER PIPING (HW), 140' F.
---140'---	HOT WATER RETURN PIPING (HWR), 140' F.
-----	SANITARY PIPING (SAN)
-----	VENT PIPING (V)
-----GW-----	GREASE WASTE PIPING (GW)
-----G-----	NATURAL GAS PIPING (G)
---ST---	PRIMARY STORM PIPING (ST)
---EST---	SECONDARY (EMERGENCY) STORM PIPING (EST)
---OR---	BALL VALVE
---OR---	PIPE DOWN
---OR---	PIPE UP
---FH---	FREEZELESS WALL HYDRANT (FWH)
---HB---	HOSE BIBB (HB)
---CV---	CHECK VALVE
---CAP---	CAP
---BFP---	BACKFLOW PREVENTER (BFP)
---PG---	PRESSURE GAUGE
---PRV---	PRESSURE REDUCING VALVE (PRV)
---STR---	STRAINER
---TRV---	T&P RELIEF VALVE
---THERM---	THERMOMETER
---UNION---	UNION
---WHA---	WATER HAMMER ARRESTER (WHA)
---ABV---	AUTOMATIC BALANCING VALVE
---FDIR---	FLOW DIRECTION
---FCO---	FLOOR CLEANOUT (FCO)
---WCO---	WALL CLEANOUT (WCO)
---GCO---	GRADE CLEANOUT (GCO)
---FD---	FLOOR DRAIN (FD)
---FS---	FLOOR SINK (FS)
---RD---	ROOF DRAIN (RD)
---GC---	GAS COCK
---WSR---	WATER SUPPLY RISER DIAGRAM
---SWR---	SANITARY WASTE RISER DIAGRAM
AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
A/C	ABOVE CEILING
AD	AREA DRAIN
AF	ABOVE FINISHED FLOOR
AHAP	AS HIGH AS POSSIBLE
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BLW	BELOW
B/S	BELOW SLAB
CLG	CEILING
CO	CLEANOUT
CONN	CONNECT OR CONNECTION
CONT	CONTINUATION
DEMO	DEMOLITION
DN	DOWN
DS	DOWNSPOUT
DSB	DOWNSPOUT BOOT
DSN	DOWNSPOUT NOZZLE
E.C.	ELECTRICAL CONTRACTOR
ETR	EXISTING TO REMAIN
EX, EXIST, (E)	EXISTING
FFE	FINISHED FLOOR ELEVATION
FLR	FLOOR
G.C.	GENERAL CONTRACTOR
HD	HUB DRAIN
IE, IE, INV ELEV	INVERT ELEVATION
M.C.	MECHANICAL CONTRACTOR
MTD	MOUNTED
OH	OVERHEAD
ORD	OVERFLOW ROOF DRAIN
P.C.	PLUMBING CONTRACTOR
PRV	PRESSURE REDUCING VALVE
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RWC	RAINWATER CONDUCTOR
SF, SQ FT	SQUARE FOOT
T&P	TEMPERATURE AND PRESSURE
TP	TRAP PRIMER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VTR	VENT THROUGH ROOF
W	WASTE
W	WASTE STACK VENT

PLUMBING GENERAL NOTES	
GENERAL REQUIREMENTS:	
1. SCOPE: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK.	9. PROVIDE CHECK VALVES IN THE HOT AND COLD WATER SUPPLY PIPING TO ALL FAUCETS TO WHICH HOSES MAY BE CONNECTED (MOP BASINS, CAN WASHES, SERVICE SINKS, ETC.), AND TO ALL SPRAY FAUCETS (PRE-RINSE, BED PAN CLEANERS, ETC.), UNLESS FAUCET HAS INTEGRAL CHECK VALVES.
2. CODE COMPLIANCE: ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION, BUILDING DEPARTMENTS, AND DEPARTMENT OF HEALTH. APPLICABLE NATIONAL, STATE, AND LOCAL CODES, LAWS, AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK SHALL BE INCORPORATED INTO AND MADE A PART OF THESE CONTRACT DOCUMENTS AND SPECIFICATIONS. THE CONTRACTOR IS TO NOTIFY THE ARCHITECT/ENGINEER OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE CODES, LAWS, OR REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH A VIOLATION SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE AND AT NO EXPENSE TO THE OWNER.	10. PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR RED BRASS SLEEVES. WHERE COPPER PIPING IS CARRIED ON IRON TRAPEZE HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH OTHER METALS.
3. PERMITS: APPLY FOR AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION.	11. PROTECT COPPER PIPING AGAINST CONTACT WITH ALL MASONRY. WHERE COPPER PIPING IS SLEEVED THROUGH MASONRY, PROVIDE COPPER OR RED BRASS SLEEVES. WHERE COPPER PIPING IS CONCEALED IN OR AGAINST MASONRY PARTITIONS, PROVIDE A HEAVY COATING OF ASPHALTIC ENAMEL ON THE COPPER PIPING AND 15# ASPHALT-SATURATED FELT BETWEEN THE PIPING AND THE MASONRY PARTITION.
4. WARRANTY: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT UNDER THIS SECTION OF THE SPECIFICATIONS WITH A ONE YEAR WARRANTY FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER.	12. INSTALL DOMESTIC WATER PIPING IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION.
5. RECORD DRAWINGS: CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF ALL AS-BUILT CONDITIONS DURING CONSTRUCTION AND TURN OVER ONE COPY EACH TO THE OWNER AND THE ARCHITECT AFTER COMPLETION.	13. NON POTABLE WATER PIPING AND VALVES SHALL BE LABELED "NON POTABLE WATER/NOT FOR DOMESTIC USE".
6. OPERATING MANUALS: CONTRACTOR SHALL FURNISH TO THE OWNER PDF FILES OF OPERATION AND MAINTENANCE MANUALS FOR ALL FIXTURES AND EQUIPMENT.	SANITARY WASTE AND VENT PIPING:
7. COORDINATION: VERIFY ALL ROUGH-IN LOCATIONS AND COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS. CONTRACTOR MUST COORDINATE WITH OTHER TRADES FOR ALL STRUCTURES, PIPING, CONDUIT, DUCTWORK, LIGHTING, ETC TO PROPERLY BE INSTALLED. ANY CONFLICTS SHALL BE RESOLVED AT NO EXPENSE TO THE OWNER. COORDINATE INSTALLATION OF ALL PLUMBING PIPING AT CMU WALLS SO THAT THE PIPING IS PLACED IN WALL DURING CMU WALL CONSTRUCTION. CUTTING AND PATCHING OF CMU WALLS IN PLACE WILL NOT BE PERMITTED.	1. FURNISH AND INSTALL COMPLETE SYSTEMS OF SANITARY WASTE AND VENT PIPING FROM ALL PLUMBING FIXTURES AND/OR EQUIPMENT REQUIRING WASTE AND VENT CONNECTIONS. ALL WASTE AND VENT PIPING SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION WHERE POSSIBLE.
8. SCALE: DO NOT SCALE PLANS. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, FIXTURES, WALLS, WALL DIMENSIONS, ETC.	2. SANITARY WASTE AND VENT PIPING BELOW GROUND:
9. FIELD VERIFICATION: FIELD VERIFY EXISTING CONDITIONS BEFORE BIDDING PROJECT AND BEFORE STARTING CONSTRUCTION AND NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS, AND/OR ANY POTENTIAL PROBLEMS OBSERVED, BEFORE CONTINUING WORK IN THE AFFECTED AREAS.	2.1. ASTM A 74, SERVICE WEIGHT, HUB AND SPIGOT, CAST IRON SOIL PIPE AND FITTINGS; AND GASKETED JOINTS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
10. PROVIDE CONCRETE HOUSE KEEPING PADS FOR ALL PLUMBING EQUIPMENT SET ON FLOORS, UNLESS OTHERWISE NOTED. PADS SHALL BE A MINIMUM OF 4" HIGH AND A MINIMUM OF 6" LARGER THAN EQUIPMENT BASES ON ALL SIDES. CHAMFER ALL EDGES.	2.2. IF PERMITTED BY LOCAL CODES, ASTM D 2665 SCHEDULE 40 SOLID WALL PVC PIPE WITH ASTM D 2665 SCHEDULE 40 SOCKET-TYPE FITTINGS MAY BE USED. FOAM/CELLULAR CORE PVC PIPE IS NOT APPROVED.
11. LABEL ALL PLUMBING PIPING WITH ADHESIVE PIPE LABELS INDICATING SERVICE AND DIRECTION OF FLOW. PIPE LABELS SHALL BE LOCATED NEAR ALL BRANCH CONNECTIONS, NEAR ALL FLOOR AND WALL PENETRATIONS, AND AT MAXIMUM INTERVALS OF 25' ALONG EACH RUN.	3. SANITARY WASTE AND VENT PIPING ABOVE GROUND:
12. PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO:	3.1. ASTM A 888 AND CISPI 301, HUBLESS, CAST IRON SOIL PIPE AND FITTINGS; AND HEAVY DUTY SHIELDED, STAINLESS STEEL COUPLINGS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
-PLUMBING FIXTURES AND EQUIPMENT	3.2. IF PERMITTED BY LOCAL CODES, ASTM D 2665 SCHEDULE 40 SOLID WALL PVC PIPE WITH ASTM D 2665 SCHEDULE 40 SOCKET-TYPE FITTINGS MAY BE USED.
-DOMESTIC WATER SYSTEM	4. PUMPED DISCHARGE PIPING:
-SANITARY WASTE AND VENT SYSTEM	4.1. SCHEDULE 40 GALVANIZED STEEL PIPE CONFORMING TO ASTM A-53 WITH GALVANIZED CAST IRON THREADED DRAINAGE FITTINGS.
-FUEL GAS SYSTEM	4.2. IF PERMITTED BY LOCAL CODES, CPVC PIPE AND FITTINGS CONFORMING TO ASTM D 2846 MAY BE USED.
-STORM DRAIN SYSTEM	4.3. IF PERMITTED BY LOCAL CODES, ASTM D 1785 SCHEDULE 40 SOLID WALL PVC PIPE WITH ASTM D 2464 SCHEDULE 40 SOCKET-TYPE FITTINGS MAY BE USED.
-INSULATION	5. INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE SANITARY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. SLOPE SANITARY PIPING 2-1/2" AND SMALLER AT 1/4" PER FOOT MINIMUM, AND SLOPE SANITARY PIPING 3" AND LARGER AT 1/8" PER FOOT MINIMUM.
-HEAT TRACE	6. THE MINIMUM SIZE FOR SANITARY AND VENT PIPING BELOW GROUND SHALL BE 2".
-FIRE STOPPING	7. WHERE SANITARY PIPING IS EXPOSED IN TOILET ROOMS, PROVIDE CHROME-PLATED BRASS PIPING WITH MATCHING ESCUTCHEONS. PROVIDE REMOVABLE TRAPS WITH INTEGRAL CLEANOUT PLUG FOR ALL LAVATORIES AND SINKS.
FIXTURES:	
1. PROVIDE COMPLETE FIXTURES AND INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAILPIECES, ESCUTCHEONS, ETC. EXPOSED COPPER OR BRASS MATERIALS SHALL BE CHROME PLATED.	8. INSTALL CLEANOUTS IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS. PROVIDE CLEANOUTS IN HORIZONTAL PIPING NOT MORE THAN 100 FEET APART, AND FOR EVERY FOUR 45° CHANGES LOCATED IN SERIES (A LONG SWEEP IS EQUIVALENT TO TWO 45° BENDS).
2. SEAL ALL EDGES OF PLUMBING FIXTURES IN CONTACT WITH FLOORS, WALLS, OR COUNTERTOPS USING SANITARY-TYPE, ONE-PART, MILDEW RESISTANT SILICONE SEALANT. MATCH SEALANT COLOR TO FIXTURE COLOR.	9. DO NOT CONNECT HORIZONTAL BRANCHES WITHIN 10 PIPE DIAMETERS DOWNSTREAM OF THE BASE OF ANY SANITARY STACK.
3. PROVIDE PERMANENTLY ATTACHED VACUUM BREAKERS FOR ALL FIXTURES/FAUCETS TO WHICH HOSES MAY BE CONNECTED.	10. ALL INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP INTO AN APPROVED WASTE RECEPTOR. THE AIR GAP BETWEEN THE INDIRECT WASTE PIPE AND THE FLOOD LEVEL RIM OF THE WASTE RECEPTOR SHALL BE A MINIMUM OF TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES.	11. PROVIDE AUTOMATIC TRAP PRIMER ON ALL TRAPS WITH TRAP SEAL SUBJECT TO LOSS BY EVAPORATION. IF ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION, A TRAP SEAL MAINTENANCE DEVICE MAY BE USED IN LIEU OF A TRAP PRIMER WHERE TRAP SEAL IS SUBJECT TO LOSS BY EVAPORATION.
5. OFFSET CLOSET FLANGES FOR CONNECTING WATER CLOSETS ARE NOT APPROVED WITHOUT WRITTEN CONSENT FROM ENGINEER.	12. ON SLOPED ROOFS, PAINT SANITARY VENT PIPING ABOVE ROOF TO MATCH ROOF COLOR.
DOMESTIC WATER PIPING:	
1. FURNISH AND INSTALL A COMPLETE SYSTEM OF DOMESTIC HOT AND COLD WATER FROM WATER SERVICE PIPE TO ALL FIXTURES AND/OR EQUIPMENT REQUIRING DOMESTIC WATER SUPPLIES. VERIFY LOCATION OF BEGINNING POINTS.	13. MODIFY PIPING AS REQUIRED SO THAT SANITARY VENT TERMINALS ARE A MINIMUM OF 10' FROM ANY BUILDING FRESH AIR INLET OR AS OTHERWISE REQUIRED BY LOCAL AUTHORITIES.
2. DOMESTIC WATER PIPING BELOW GROUND:	STORM DRAIN PIPING:
2.1. AWWA C151 CEMENT-LINED DUCTILE IRON PIPE AND FITTINGS FOR PIPING 4" AND LARGER; ASTM B 88 TYPE "K" SOFT COPPER TUBE WITH WROT COPPER FITTINGS, AND BRAZED OR PRESSURE-SEALED JOINTS FOR PIPING 3" AND SMALLER.	1. WORK INCLUDES ROOF DRAINS AND PIPING TO A POINT 5'-0" OUTSIDE OF THE BUILDING, AND OVERFLOW DRAINS AND PIPING TO WALL MOUNTED DISCHARGE NOZZLES. ALL PIPING SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION WHERE POSSIBLE.
2.2. IF PERMITTED BY LOCAL CODES, CPVC PIPE AND FITTINGS CONFORMING TO ASTM D 2846 MAY BE USED.	2. INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE STORM PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. SLOPE STORM PIPING AT 1/8" PER FOOT MINIMUM.
2.3. IF PERMITTED BY LOCAL CODES, PEX PLASTIC PIPE, TUBING AND FITTINGS CONFORMING TO ASTM F876 OR ASTM F877 MAY BE USED.	3. STORM DRAIN PIPING BELOW GROUND:
3. DOMESTIC WATER PIPING ABOVE GROUND:	3.1. ASTM A 74, SERVICE WEIGHT, HUB AND SPIGOT, CAST IRON SOIL PIPE AND FITTINGS; AND GASKETED JOINTS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
3.1. ASTM B 88 TYPE "L" HARD COPPER TUBE WITH WROUGHT COPPER FITTINGS, AND SOLDERED OR PRESSURE-SEALED JOINTS.	3.2. IF PERMITTED BY LOCAL CODES, ASTM D 2665 SCHEDULE 40 SOLID WALL PVC PIPE WITH ASTM D 2665 SCHEDULE 40 SOCKET-TYPE FITTINGS MAY BE USED.
2.2. IF PERMITTED BY LOCAL CODES, CPVC PIPE AND FITTINGS CONFORMING TO ASTM D 2846 MAY BE USED.	4. STORM DRAIN PIPING ABOVE GROUND:
2.3. IF PERMITTED BY LOCAL CODES, ASTM F876 CROSSLINKED POLYETHYLENE PEX-A TUBING, AND ASTM F1960 PEX-A COLD EXPANSION FITTINGS MAY BE USED. DO NOT INSTALL PEX TUBING IN RETURN AIR PLENUMS, EXCEPT UPONOR PEX-A MAY BE INSTALLED IN RETURN AIR PLENUMS IF THE REQUIREMENTS OF TABLE 3-3 OF THE UPONOR PLUMBING DESIGN ASSISTANCE MANUAL ARE MET.	4.1. ASTM A 888 AND CISPI 301, HUBLESS, CAST IRON SOIL PIPE AND FITTINGS; AND HEAVY DUTY SHIELDED, STAINLESS STEEL COUPLINGS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
3. STERILIZE DOMESTIC WATER PIPING IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.	4.2. IF PERMITTED BY LOCAL CODES, ASTM D 2665 SCHEDULE 40 SOLID WALL PVC PIPE WITH ASTM D 2665 SCHEDULE 40 SOCKET-TYPE FITTINGS MAY BE USED.
4. SHUT-OFF VALVES SHALL BE NIBCO TWO-PIECE, BRONZE, FULL PORT, BALL TYPE. PROVIDE SHUT-OFF VALVES ON ALL BRANCH PIPING SERVING TWO OR MORE FIXTURES, AND WHERE INDICATED ON THE DRAWINGS. INSTALL VALVES IN A LOCATION THAT PERMITS ACCESS FOR SERVICE AND OPERATION WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. PROVIDE ACCESS DOORS IF REQUIRED.	5. INSTALL CLEANOUTS IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS. PROVIDE CLEANOUTS IN HORIZONTAL PIPING NOT MORE THAN 100 FEET APART, AT THE BASE OF ALL RAINWATER CONDUCTORS, AND FOR EVERY FOUR 45° CHANGES LOCATED IN SERIES (A LONG SWEEP IS EQUIVALENT TO TWO 45° BENDS).
5. PROVIDE AN ASSE 1070 TEMPERATURE LIMITING DEVICE SET AT 110 DEGREES FAHRENHEIT FOR ALL PUBLIC HAND WASHING LAVATORIES, PUBLIC GROUP WASH FIXTURES, AND HAND SINKS.	FUEL GAS PIPING:
6. PROVIDE DRAIN VALVES IN THE DOMESTIC HOT AND COLD WATER PIPING AT ALL LOW POINTS TO ALLOW FOR COMPLETE DRAINAGE OF THE SYSTEMS.	1. WORK TO INCLUDE PIPING FROM GAS METER TO ALL GAS-FIRED EQUIPMENT SERVING BUILDING, INCLUDING FINAL CONNECTIONS TO EQUIPMENT.
7. PROVIDE A PRESSURE REDUCING VALVE WITH STRAINER AT THE SERVICE ENTRANCE TO THE BUILDING IF THE INCOMING WATER PRESSURE EXCEEDS 80 PSI.	
8. PROVIDE EXPANSION COMPENSATION AS REQUIRED TO ABSORB THERMAL EXPANSION IN PIPE RUNS 100' AND LONGER.	

- ALL WORK SHALL BE IN ACCORDANCE WITH THE STATE ADOPTED FUEL GAS CODE, ALL APPLICABLE LOCAL CODE REQUIREMENTS, AND THE REGULATIONS OF THE GAS COMPANY PROVIDING SERVICE.
- FUEL GAS PIPING UNDER GROUND:
 - SCHEDULE 40 BLACK STEEL PIPE, ASTM A53 WITH POLYETHYLENE JACKET; WELDED JOINTS AND STANDARD WEIGHT BLACK STEEL BUTT WELD OR SOCKET WELD FITTINGS, ASTM A243; OR PRESS CONNECT FITTINGS COMPLYING WITH ANSI LC-4.
 - POLYETHYLENE PIPE, ASTM D2513, WITH HEAT FUSION JOINTS AND FITTINGS.
- FUEL GAS PIPING ABOVE GROUND:
 - ASTM A 53 SCHEDULE 40 SEAMLESS BLACK STEEL PIPE WITH MALLEABLE FITTINGS AND THREADED JOINTS OR PRESS CONNECT FITTINGS COMPLYING WITH ANSI LC-4.
 - COPPER TUBING AS PERMITTED BY GAS CODE AND LOCAL AUTHORITIES.
- VALVES SHALL BE FULL PORT BALL VALVES APPROVED FOR USE IN FUEL GAS PIPING SYSTEMS.
- ALL GAS PIPING LOCATED UNDER THE FLOOR SLAB SHALL BE INSTALLED IN CONDUIT VENTED TO THE OUTDOORS OR AS REQUIRED BY CODE.
- PROVIDE SHUT-OFF VALVE, UNION, VENT LIMITING GAS REGULATOR, DRIP LEG, AND TEST CONNECTION AT EACH PIECE OF GAS-FIRED EQUIPMENT TO PROVIDE PRESSURE TO EQUIPMENT AS REQUIRED BY MANUFACTURER.
- ALL GAS PIPING LOCATED ON ROOFS SHALL BE INSTALLED ON MANUFACTURED PIPE SUPPORTS SIMILAR TO ERICO CADDY PYRAMID 50. WOOD BLOCKING WILL NOT BE PERMITTED.
- ALL PIPING EXPOSED TO THE OUTDOORS, RUN IN UNCONDITIONED SPACES, OR EXPOSED IN FINISHED SPACES SHALL BE PAINTED WITH TWO COATS OF ENAMEL. COLOR TO BE YELLOW, AS SELECTED BY ARCHITECT, OR AS REQUIRED BY GAS COMPANY.
- PROVIDE EMERGENCY SHUT-OFF VALVE FOR COOKING EQUIPMENT TO SHUT-OFF FUEL SUPPLY UPON ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM. VALVE SHALL HAVE A MANUAL RESET AND MAY BE MECHANICAL OR ELECTRIC SOLENOID. COORDINATE EXACT TYPE WITH HOOD INSTALLER, AND EXACT LOCATION WITH OWNER.
- CORRUGATED STAINLESS STEEL TUBING SHALL NOT BE USED WITHOUT WRITTEN APPROVAL, EXCEPT FOR CONNECTIONS AT EQUIPMENT.
- BEFORE INSTALLING ANY FUEL GAS PIPING, VERIFY THAT GAS IS AVAILABLE AT THE PRESSURE INDICATED ON THE DRAWINGS. IF THE AVAILABLE PRESSURE IS DIFFERENT THAN THE DESIGN PRESSURE, IMMEDIATELY SEEK CLARIFICATION THROUGH ARCHITECT TO DETERMINE IF PIPE SIZES NEED TO BE REVISED.

INSULATION:

- INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS, AND ADHESIVES SHALL NOT EXCEED A FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING OF 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
- ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, AND PARTITIONS.
- DOMESTIC WATER PIPING:
 - INSULATE METALLIC AND AUTOMATIC CIRCULATING HOT WATER SYSTEM WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH 1" ELASTOMERIC FOAM INSULATION, OR 1" FIBERGLASS PIPE INSULATION WITH FACTORY-APPLIED ALL SERVICE JACKETING. 1/2" INSULATION MAY BE USED FOR METALLIC PIPING 1" AND LESS.
- INSULATE NON-METALLIC PIPING INSTALLED IN RETURN AIR PLENUMS WITH FIRE BARRIER PLENUM WRAP LISTED FOR THE PIPE MATERIALS AND PIPE SIZE, IF THE PIPE AND FITTINGS ARE NOT LISTED FOR INSTALLATION IN RETURN AIR PLENUMS.

- SANITARY WASTE AND VENT PIPING:
 - INSULATE PVC PIPING INSTALLED IN RETURN AIR PLENUMS WITH 3M FIRE BARRIER PLENUM WRAP 5A+, OR SIMILAR PRODUCT.
 - INSULATE ALL ABOVE SLAB WASTE PIPING FROM ELECTRIC WATER COOLERS, AND FROM DRAINS SERVING ICE MACHINES, UP TO AND INCLUDING 10'-0" FROM FIXTURE OR DRAIN.
- STORM PIPING:
 - INSULATE STORM PIPING ABOVE GRADE AND ROOF DRAIN BODIES WITH 1" ELASTOMERIC FOAM INSULATION, OR 1" FIBERGLASS PIPE INSULATION WITH FACTORY-APPLIED ALL SERVICE JACKETING. THIS INCLUDES THE PRIMARY AND SECONDARY STORM DRAIN SYSTEMS.

FIRE STOPPING:

- FIRE STOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS, AND PARTITIONS. PROVIDE DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814 AND INSTALL IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE DEVICE(S) OR SYSTEM(S) WITH AN 'F' RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED.

HEAT TRACE:

- DOMESTIC WATER PIPING:
 - IN AREAS SUBJECT TO FREEZING TEMPERATURES, WRAP WITH HEAT TRACE AND INSULATION INSTALLED PER MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN TEMPERATURE AT 40°F OR ABOVE.
- SANITARY WASTE AND VENT PIPING:
 - FOR P-TRAPS INSTALLED IN AREAS SUBJECT TO FREEZING TEMPERATURES, WRAP WITH HEAT TRACE AND INSULATION INSTALLED PER MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN TEMPERATURE AT 40°F OR ABOVE.

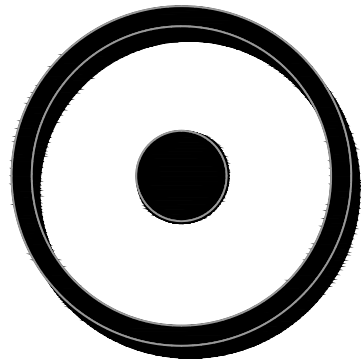
WATER HAMMER ARRESTER REQUIREMENTS:

- PROVIDE WATER HAMMER ARRESTERS CONFORMING TO PDH-WH201 OR ASSE 1010, INSTALLED PER MANUFACTURER'S SPECIFICATIONS, WHERE QUICK CLOSING VALVES ARE UTILIZED. A QUICK CLOSING VALVE IS A VALVE OR FAUCET THAT CLOSSES AUTOMATICALLY WHEN RELEASED, OR THAT IS CONTROLLED BY MECHANICAL MEANS FOR FAST-ACTION CLOSING. REFER TO WATER HAMMER ARRESTER SCHEDULE.
- AS A MINIMUM, PROVIDE ONE WATER HAMMER ARRESTER FOR EACH BRANCH LINE TO EACH TOILET ROOM LESS THAN 20' IN LENGTH, LOCATED BETWEEN THE LAST TWO FIXTURES SERVED. FOR BRANCH LINES GREATER THAN 20' IN LENGTH, A SECOND WATER HAMMER ARRESTER IS REQUIRED.

SEISMIC REQUIREMENTS:

- PROPERLY SUPPORT AND BRACE VERTICALLY AND HORIZONTALLY ALL PIPING, APPARATUS, EQUIPMENT, ETC IN ACCORDANCE WITH APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.

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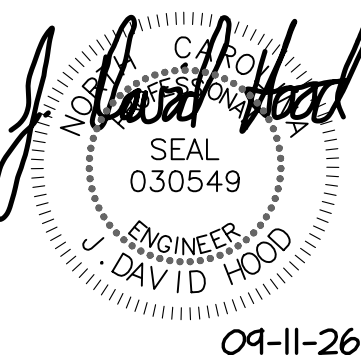


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FOR CONSTRUCTION

HAMPTON INN & SUITES by HILTON

**OLD WATERFORD WAY
LELAND, NC 28451**

issue date:

ISSUE	NAME	DATE
1	CONSTRUCTION	09/11/2026

revisions:

Revision	Date	Description
1	04/18/2026	Final Comments
2	07/14/2026	Site Utility Coord.
3	09/11/2026	Coordination

drawn by:

JDH

checked by:

CED

project no:

25-104

PLUMBING NOTES
AND LEGEND

P010

PLUMBING EQUIPMENT SCHEDULE			
MARK	EQUIPMENT	MANUFACTURER & MODEL NO.	SPECIFICATION
ED-1	FLOOR DRAIN	ZURN Z415-CP	CAST IRON BODY, MEMBRANE CLAMP, ADJUSTABLE COLLAR, 6" SQUARE CHROME PLATED TOP, 1/2" TRAP PRIMER CONNECTION.
ED-2	FLOOR DRAIN	ZURN Z1731	9" DIAMETER HEAVY DUTY FLOOR DRAIN, TYPE 304 STAINLESS STEEL BODY WITH INTEGRAL ANCHOR FLANGE, TYPE 304 STAINLESS STEEL NON-TILT GRATE.
ED-3	FLOOR DRAIN	SIOUX CHIEF 860 SERIES	PVC BODY, ANCHOR FLANGE, PVC STRAINER (MEDIUM DUTY), ABS DEBRIS BUCKET, TRAP PRIMER PORT
ES-1	FLOOR SINK	ZURN ZN1901-KC-2	12"x12"x8" DEEP CAST IRON BODY WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR, ANCHOR FLANGE WITH SEEPAGE HOLES AND CLAMP COLLAR, NICKEL BRONZE FRAME WITH 1/2 GRATE.
RD	MAIN ROOF DRAIN	ZURN Z4100	15" DIAMETER, DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, ALUMINUM DOME.
ORD	OVERFLOW ROOF DRAIN	ZURN Z4100-W2	15" DIAMETER, DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, ALUMINUM DOME, 2" HIGH INTERNAL WATER DAM.
DSN	DOWNSPOUT NOZZLE FOR OVERFLOW ROOF DRAINS	ZURN ZANB199-SS	NICKEL BRONZE BODY WITH REMOVABLE STAINLESS SCREEN.
ECO	FLOOR CLEAN OUT	ZURN ZN1400-BP	ADJUSTABLE, COATED CAST IRON BODY, ROUND SCORIATED NICKEL BRONZE TOP, BRONZE PLUG.
WCO	WALL CLEAN OUT	ZURN Z1446-BP	CAST IRON NO-HUB CLEANOUT TEE, WITH ROUND STAINLESS STEEL WALL ACCESS COVER, BRONZE PLUG, SECURING SCREW.
GCO	GRADE CLEAN OUT	ZURN Z1400-BP-VP	ADJUSTABLE, COATED CAST IRON BODY, ROUND CAST IRON TOP, BRONZE PLUG, VANDAL-PROOF SCREWS, SET IN 18" X 18" X 6" DEEP CONCRETE SLAB.
BFP-1	BACKFLOW PREVENTER	WATTS SERIES LF9090T-S	BRONZE REDUCED PRESSURE ZONE ASSEMBLY, WITH QUARTER-TURN BALL VALVES AND STRAINER. INCLUDE SERIES 909AG AIR GAP FITTING.
BFP-2	BACKFLOW PREVENTER	WATTS SERIES LF7	ASSE 1024 BRONZE DUAL CHECK VALVE, LEAD FREE, WITH UNION.
BFP-3	BACKFLOW PREVENTER	WATTS SERIES SD-3	ASSE 1022 DUAL CHECK VALVE FOR CARBONATED BEVERAGE MACHINES, 316 STAINLESS STEEL BODY, WITH ATMOSPHERIC VENT, WYE PATTERN STRAINER.
HB-1	HOSE BIBB	PRIER MODEL C-15SNP.75	ANTI-SIPHON ANGLE SILL FAUCET, CAST BRASS, SATIN NICKEL PLATED, 3/4" FLANGED THREADED INLET, 3/4" HOSE THREAD OUTLET, METAL WHEEL HANDLE, VACUUM BREAKER BACKFLOW CHECK VALVE.
HB-2	HOSE BIBB	PRIER MODEL C-255CP.50	ANTI-SIPHON ANGLE SILL FAUCET, CAST BRASS, POUISHED CHROME PLATED, 1/2" FLANGED THREADED INLET, 3/4" HOSE THREAD OUTLET, LOOSE KEY OPERATION, VACUUM BREAKER BACKFLOW CHECK VALVE.
FWH	FREEZELESS WALL HYDRANT	PRIER MODEL C-634N	ENCASED, ANTI-SIPHON, CAST BRASS HYDRANT, SATIN NICKEL FINSH, 3/4" INLET, 3/4" HOSE THREAD OUTLET, LOOSE KEY OPERATION, SELF DRAINING, WITH INTEGRAL VACUUM BREAKER/BACKFLOW PREVENTER. INCLUDE PRIER MODEL C-634BK1 SATIN NICKEL HYDRANT BOX, WITH HINGED COVER AND OPERATING KEY LOCK.
FRH	FREEZELESS ROOF HYDRANT	MAPA PRODUCTS MODEL MPH-24FP.24/9	FREEZE PROOF PEDESTAL HYDRANT ASSEMBLY, SELF DRAINING, ANTI-SIPHON, 3/4" INLET, 3/4" HOSE THREAD OUTLET, GRADE 304 STAINLESS STEEL SHROUD WITH WELDED STAINLESS STEEL FLANGE, BLACK POWDER COATED CAST ALUMINUM WEATHER GUARD DOME HANDLE, QUICK DISCONNECT WITH BUILT-IN VACUUM BREAKER, BLACK POWDER COATED UNDER-DECK SUPPORT FLANGE, STAINLESS STEEL RESERVOIR.
FGH	FREEZELESS GROUND HYDRANT	PRIER MODEL P-260-3	ANTI-SIPHON, SELF-DRAINING, LOCKABLE, CAST IRON HEAD AND LEVER HANDLE, HEAVY DUTY GALVANIZED STEEL PIPE, 3" BURY DEPTH, 3/4" INLET, 3/4" BRASS HOSE THREAD OUTLET, BUILT IN BACKFLOW PREVENTER, INCLUDE ASSE 1052 VACUUM BREAKER.
WMO	WASHING MACHINE OUTLET BOX	OATEY WASHING MACHINE OUTLET BOX NO. 38957	RECESSED PLASTIC BOX, WITH 2" OFFSET DRAIN, 1/4 TURN BRASS BALL VALVES WITH WATER HAMMER ARRESTERS, 4 SUPPORT BRACKETS, SNAP-ON FACEPLATE.
IMB	ICE MAKER OUTLET BOX	OATEY ICE MAKER OUTLET BOX NO. 38608	RECESSED PLASTIC BOX, 1/4 TURN BRASS BALL VALVE WITH WATER HAMMER ARRESTER, 2 SUPPORT BRACKETS, SNAP-ON FACEPLATE.
TMV	THERMOSTATIC MIXING VALVE	SYMMONS MAXLINE 7-225-OK-MS	0.5 GPM MINIMUM FLOW, THERMOSTATIC WATER TEMPERATURE LIMITING VALVE WITH INTEGRAL CHECKS, BRASS BODY, BRASS AND STAINLESS STEEL INTERNAL COMPONENTS, DUAL STAINLESS STEEL STRAINERS, VANDAL-RESISTANT CAP/ TEMPERATURE ADJUSTMENT HANDLE, 1/2" MALE NPT CONNECTIONS. SET MIXING VALVE OUTLET TEMPERATURE TO 110° F.
ESP	ELEVATOR SUMP PUMP NOTE: ELEVATOR IS NOT HYDRAULIC	LIBERTY LE41A	4/10 HP SUBMERSIBLE SEWAGE PUMP, 115 V, PIGGY-BACK FLOAT SWITCH, 50 GPM AT 15' OF HEAD, ROUTE DISCHARGE TO HUB DRAIN
TD-1	TROUGH DRAIN	HIGH MARK MANUFACTURING	12" TALL X 18" WIDE X 5'-0" LONG ABS DRAIN TROUGH WITH LINT SCREEN
TD-2	TROUGH DRAIN	IMC/TEDDY FWR-36-SG-BH	4" TALL X 7.5" WIDE X 3'-0" LONG 16GA TYPE 304 STAINLESS STEEL FLOOR TROUGH WITH BEEHIVE STRAINER
EXP-1	THERMAL EXPANSION TANK	AMTROL ST-60VC	25 GALLON TANK VOLUME, 0.44 MIN ACCEPTANCE FACTOR
WH-1	GAS WATER HEATER	AO SMITH MODEL BTH-199	COMMERCIAL GAS-FIRED, CONDENSING, DIRECT VENT, 100 GALLON CAPACITY, 199 MBH INPUT, 261 GPH AT 90° TEMPERATURE RISE, GLASS-LINED STEEL TANK, WITH FACTORY INSTALLED T&P RELIEF VALVE AND DRAIN VALVE.
MMV	MASTER MIXING VALVE	LEONARD TM-1520B-LF-DT-IT	HIGH/LOW THERMOSTATIC MIXING VALVE, 1 GPM MINIMUM FLOW, 80 GPM AT 15 PSI PRESSURE DROP, LARGE TYPE TM THERMOSTATIC WATER MIXING VALVE, ADJUSTABLE HIGH TEMPERATURE LIMIT STOP, INLET CHECKSTOPS, WALL SUPPORT, OUTLET BALL VALVE, SMALL TYPE TM THERMOSTATIC WATER MIXING VALVE, ADJUSTABLE HIGH TEMPERATURE LIMIT STOP*, INLET CHECKSTOPS, OUTLET BALL VALVE; FACTORY ASSEMBLED AND TESTED
BV-1	BALANCING VALVE ASSEMBLY	CIRCUIT SOLVER FOR 124 DEG. SYSTEM	CSUA-115-CV1-03 THERMOSTATIC VALVE WITH INTEGRATED CHECK VALVE AND BALL VALVES, SIZE PER CONNECTED LINE.
BV-2	BALANCING VALVE ASSEMBLY	CIRCUIT SOLVER FOR 140 DEG. SYSTEM	CSUA-130-CV1-03 THERMOSTATIC VALVE WITH INTEGRATED CHECK VALVE AND BALL VALVES, SIZE PER CONNECTED LINE.
LI-1	LINT INTERCEPTOR	ZURN Z1185-3	ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL LINT INTERCEPTOR, NON-SKID SECURED COVER, ALUMINUM LINT INTERCEPTING SECONDARY SCREEN ASSEMBLY, AND PERMANENT PRIMARY STRAINING BAFFLE WITH 3/8" DIAMETER PERFORATED HOLES, 30 GPM FLOW RATE
WF-1	WATER FILTER	OPTIPURE MODEL QT1-1	SINGLE-CARTRIDGE WATER TREATMENT SYSTEM, WITH 2.25 GPM FLOW RATE FOR 22,500-GALLONS, BUILT-IN PRESSURE GAUGE, AND INLET SHUT-OFF VALVE. APPLICATIONS INCLUDE 2.25 GPM FOR ICE MACHINES UP TO 1,000 LBS, FLAKERS UP TO 1,500 LBS, COFFEE MACHINES UP TO 2.25 GPM, AND STEAM AND COMBI OVENS.
NOTE: CODE COMPLIANT SUBSTITUTIONS ARRANGED BETWEEN OWNER AND CONTRACTOR ARE ACCEPTABLE.			

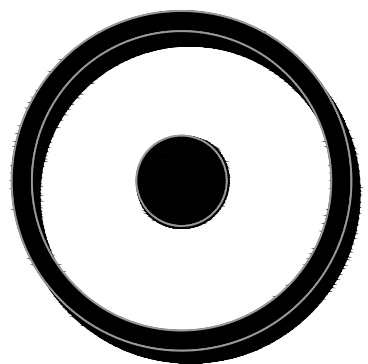
WATER HAMMER ARRESTER SCHEDULE

PDI SIZE	FIXTURE UNITS	MODEL
A	1 – 11	SIOUX CHIEF 652-AS
B	12 – 32	SIOUX CHIEF 653-BS
C	33 – 60	SIOUX CHIEF 654-CS
D	61 – 113	SIOUX CHIEF 655-DS
E	114 – 154	SIOUX CHIEF 656-ES
F	155 – 330	SIOUX CHIEF 657-FS
WATER HAMMER ARRESTERS SHALL BE SEAMLESS, PISTON-TYPE, SIZED AND INSTALLED IN ACCORDANCE WITH PDI-WH201. INSTALL WATER HAMMER ARRESTER IN STANDARD TEE, SAME SIZE AS CONNECTED PIPING. AIR CHAMBERS WILL NOT BE PERMITTED.		

PLUMBING FIXTURE SPECIFICATIONS AND CONNECTION SCHEDULE - GUEST ROOMS								
MARK	FIXTURE	TYPE	MATERIAL	PIPE SIZES				SPECIFICATION
				SAN	VENT	CW	HW	
WC-1	WATER CLOSET	FLOOR MOUNTED FLUSH TANK ADA HEIGHT	VITREOUS CHINA	3"	1-1/2"	1/2"	-	FIXTURE: TOTO DRAKE MW7764726CEF(A) WASHLET+ S7 TWO-PIECE TOILET - 1.28 GPF FAUCET: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE CLOSET SUPPLY KIT, WITH WHEEL HANDLE ANGLE STOP. SEAT: BEMIS MODEL AFFINITY 1200E4CT 000 HEAVY DUTY, SOLID PLASTIC, CLOSED FRONT, WITH COVER, WHISPER CLOSE EASY CLEAN HINGE, STA-TITE FASTENING SYSTEM.
WC-2	WATER CLOSET	FLOOR MOUNTED FLUSH TANK ADA HEIGHT	VITREOUS CHINA	3"	1-1/2"	1/2"	-	FIXTURE: SIMILAR TO WC-1, PROVIDE WITH TRIP LEVER ON APPROACH SIDE OF TOILET TANK. SUPPLY: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE CLOSET SUPPLY KIT, WITH WHEEL HANDLE ANGLE STOP. SEAT: BEMIS MODEL AFFINITY 1200E4CT 000 HEAVY DUTY, SOLID PLASTIC, CLOSED FRONT, WITH COVER, WHISPER CLOSE EASY CLEAN HINGE, STA-TITE FASTENING SYSTEM.
L-1	LAVATORY	UNDERMOUNT ADA COMPLIANT	VITREOUS CHINA	1-1/2"	1-1/2"	1/2"	1/2"	FIXTURE: APOGEE MODEL UB903W, SINGLE BOWL, UNDERMOUNT, DEPTH 6" WITH INSIDE BOWL DIMENSIONS 17-1/4" X12-3/8" AND OVER ALL 20" X 16" FAUCET: MOEN 6190BN, LEVEL STYLE HANDLE, SINGLE HOLE MOUNT, BRUSHED NICKEL FINISH, LEVER OPERATED POP-UP WASTE ASSEMBLY TRAP: McGUIRE 1-1/4" X 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG. SUPPLIES: 1/2" X 3/8" CHROME-PLATED CAST BRASS ANGLE STOPS WITH WHEEL HANDLES, BRAIDED STAINLESS STEEL SUPPLY TUBES. INCLUDE TRUEBRO LAV GUARD 2 MODEL #103 E-Z UNDERSINK PIPING COVERS, WITH P-TRAP COVER AND TWO ANGLE VALVE AND SUPPLY COVERS FOR ADA GUESTROOMS AND FOR PUBLIC RESTROOMS.
SH-1	SHOWER	SHOWER RECEPTOR	VIKRELL	2"	2"	1/2"	1/2"	FIXTURE: MINCEY MARBLE MANUFACTURING, SP-3460-C-SF, 60"x34" CENTER DRAIN TRIM: MOEN T2192BN SERIES SINGLE HANDLE SHOWER TRIM KIT WITH BRUSHED NICKEL FINISH, MOEN 3638EPBN 4 FUNCTION SHOWERHEAD, BRUSHED NICKEL FINISH, 1.75 GPM MAX FLOW RATE. DRAIN: KOHLER MODEL K-9132-BN BRASS DRAIN WITH PERFORATED STRAINER, 2" CONNECTION, BRUSHED NICKEL FINISH. PROVIDE 2" P-TRAP. MOUNTING HEIGHT: ROUGH-IN FOR FIXED SHOWER HEAD SHALL BE 6'-10" TO 7'-0" AFF
SH-2	SHOWER	ADA COMPLIANT SHOWER RECEPTOR	MARBLE	2"	2"	1/2"	1/2"	FIXTURE: SHOWER BASE: MINCEY MARBLE MANUFACTURING, SP-3162-C/SF, CAST MARBLE ROLL-IN SHOWER BASE WITH INTEGRAL FIBERGLASS FLANGES, W/ SLIP-RESISTANT FINISH, CENTER DRAIN 62" (60" CLEAR) X 31" X 1-1/2" WITH #2250 SOLID WHITE MATTE FINISH, CAULKING COLOR TO MATCH SURROUND. VALVE: KOHLER RITE-TEMP MODEL K-8304-KS-NA PRESSURE-BALANCING VALVE WITH SCREWDRIIVER STOPS, UNIVERSAL INLETS; KOHLER MASTERSHOWER MODEL K-728-K THREE-WAY/TWO-WAY TRANSFER VALVE. TRIM: KOHLER FORTE MODEL K-110277-4-BN BRUSHED NICKEL VALVE TRIM WITH LEVER HANDLE, MODEL K-10290-4-BN BRUSHED NICKEL TRANSFER VALVE TRIM WITH LEVER HANDLE, MODEL K-7397-BN BRUSHED NICKEL 7-1/2" SHOWER ARM AND FLANGE, FORTE MODEL K-10240-BN BRUSHED NICKEL 1.75 GPM MULTI-FUNCTION SHOWERHEAD, FORTE MODEL K-10298-BN BRUSHED NICKEL 1.75 GPM MULTI-FUNCTION HANDSHOWER, MODEL K-9516-BN BRUSHED NICKEL SHOWER SLIDE BAR, MODEL K-9513-BN BRUSHED NICKEL WALL SUPPLY ELBOW, MODEL K-8593-BN BRUSHED NICKEL SHOWER SLIDE BAR, MODEL K-9513-BN BRUSHED NICKEL 72" METAL SHOWER HOSE. DRAIN: KOHLER MODEL K-9132-BN BRASS DRAIN WITH PERFORATED STRAINER, 2" CONNECTION, BRUSHED NICKEL FINISH. PROVIDE 2" P-TRAP. MOUNTING HEIGHT: ROUGH-IN FOR FIXED SHOWER HEAD SHALL BE 6'-10" TO 7'-0" AFF; FOR HANDSHOWER BOTTOM OF THE SHOWER HEAD MUST BE AT LEAST 6'-6" AFF.
BT-1	BATHTUB	ADA COMPLIANT BATH/SHOWER	VIKRELL	1-1/2"	1-1/2"	1/2"	1/2"	FIXTURE: KOHLER VILLAGER K-716 60"x30-1/4" TUB, K-7115 (LEFT HAND DRAIN) OR K-716 (RIGHT HAND DRAIN), ENAMELED CAST IRON VALVE: KOHLER RITE-TEMP MODEL K-8304-KS-NA PRESSURE-BALANCING VALVE WITH SCREWDRIIVER STOPS, UNIVERSAL INLETS; KOHLER MASTERSHOWER MODEL K-728-K THREE-WAY/TWO-WAY TRANSFER VALVE. TRIM: KOHLER FORTE MODEL K-110277-4-BN BRUSHED NICKEL VALVE TRIM WITH LEVER HANDLE, MODEL K-10290-4-BN BRUSHED NICKEL TRANSFER VALVE TRIM WITH LEVER HANDLE, FORTE MODEL K-10281-4-BN BRUSHED NICKEL DIVERTER BATH SPOUT WITH SCULPTED HANDLE, MODEL K-7397-BN BRUSHED NICKEL 7-1/2" SHOWER ARM AND FLANGE, FORTE MODEL K-10240-BN BRUSHED NICKEL 1.75 GPM MULTI-FUNCTION SHOWERHEAD, FORTE MODEL K-10298-BN BRUSHED NICKEL 1.75 GPM MULTI-FUNCTION HANDSHOWER, MODEL K-9516-BN BRUSHED NICKEL SHOWER SLIDE BAR, MODEL K-9513-BN BRUSHED NICKEL 72" METAL SHOWER HOSE. DRAIN: KOHLER MODEL K-7271 BRASS POP-UP DRAIN, BRUSHED NICKEL FINISH. PROVIDE 1-1/2" P-TRAP. MOUNTING HEIGHT: ROUGH-IN FOR FIXED SHOWER HEAD SHALL BE 6'-10" TO 7'-0" AFF; FOR HANDSHOWER BOTTOM OF THE SHOWER HEAD MUST BE AT LEAST 6'-6" AFF.
BT-2	BATHTUB	BATH/SHOWER	VIKRELL	1-1/2"	1-1/2"	1/2"	1/2"	FIXTURE: KOHLER VILLAGER K-716 60"x30-1/4" TUB, K-7115 (LEFT HAND DRAIN) OR K-716 (RIGHT HAND DRAIN), ENAMELED CAST IRON VALVE: KOHLER RITE-TEMP MODEL K-8304-KS-NA PRESSURE-BALANCING VALVE WITH SCREWDRIIVER STOPS, UNIVERSAL INLETS; TRIM: KOHLER FORTE MODEL K-110277-4-BN BRUSHED NICKEL VALVE TRIM WITH LEVER HANDLE, FORTE MODEL K-10281-4-BN BRUSHED NICKEL DIVERTER BATH SPOUT WITH SCULPTED HANDLE, MODEL K-7397-BN BRUSHED NICKEL 7-1/2" SHOWER ARM AND FLANGE, FORTE MODEL K-10240-BN BRUSHED NICKEL 1.75 GPM MULTI-FUNCTION SHOWERHEAD, DRAIN: KOHLER MODEL K-7271 BRASS POP-UP DRAIN, BRUSHED NICKEL FINISH. PROVIDE 1-1/2" P-TRAP. MOUNTING HEIGHT: ROUGH-IN FOR FIXED SHOWER HEAD SHALL BE 6'-10" TO 7'-0" AFF;
S-1	SINK	COUNTERTOP SINGLE BOWL ADA COMPLIANT	STAINLESS STEEL	1-1/2"	1-1/2"	1/2"	1/2"	FIXTURE: KOHLER TOCCATA MODEL K-3349-1, 15" X 15" X 7" DEEP, 19 GAUGE STAINLESS STEEL, SELF-RIMMING, WITH SOUND-ABSORPTION SYSTEM, SINGLE FAUCET HOLE, CENTERED DRAIN. FAUCET: KOHLER ESSEX MODEL K-8761-G BAR SINK FAUCET, POUISHED CHROME-PLATED CAST BRASS, SINGLE HOLE MOUNT, WITH WRIST BLADE HANDLES, 5-1/2" GOOSENECK SWING SPOUT. TRAP: KOHLER MODEL K-8813 STAINLESS STEEL DRAIN WITH BASKET STRAINER AND CHROME-PLATED BRASS TAILPIECE, McGUIRE 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG. SUPPLIES: 1/2" X 3/8" CHROME-PLATED CAST BRASS ANGLE STOPS WITH WHEEL HANDLES, BRADED STAINLESS STEEL SUPPLY TUBES. INCLUDE TRUEBRO LAV GUARD 2 MODEL #103 E-Z UNDERSINK PIPING COVERS, WITH P-TRAP COVER AND TWO ANGLE VALVE AND SUPPLY COVERS.
NOTE: CODE COMPLIANT FIXTURE AND TRIM SUBSTITUTIONS APPROVED BY OWNER AND HOTEL BRAND ARE ACCEPTABLE.								

PLUMBING FIXTURE SPECIFICATIONS AND CONNECTION SCHEDULE - NON GUEST ROOMS								
MARK	FIXTURE	TYPE	MATERIAL	PIPE SIZES				SPECIFICATION
				SAN	VENT	CW	HW	
WC-3	WATER CLOSET	FLOOR MOUNTED FLUSH VALVE ADA HEIGHT	VITREOUS CHINA	3"	1-1/2"	1"	-	FIXTURE: KOHLER HIGHCUTLIF ULTRA K-PR96057-T3DS-NA, 1.6 GPF, ELONGATED RIM, SIPHON JET FLUSH ACTION, 1-1/2" TOP SPUD. FLUSH VALVE: BATTERY POWERED TOUCHLESS FLUSH VALVE INCLUDED. SEAT: BEMIS MODEL 3155SSCT EXTRA HEAVY WEIGHT, SOLID PLASTIC, OPEN FRONT, LESS COVER, STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, STA-TITE FASTENING SYSTEM, ANTIMICROBIAL.
WC-4	WATER CLOSET	FLOOR MOUNTED FLUSH VALVE ADA HEIGHT	VITREOUS CHINA	3"	1-1/2"	1"	-	FIXTURE: KOHLER HIGHCUTLIF ULTRA K-PR96057-T3DS-NA, 1.6 GPF, ELONGATED RIM, SIPHON JET FLUSH ACTION, 1-1/2" TOP SPUD. FLUSH VALVE: BATTERY POWERED TOUCHLESS FLUSH VALVE INCLUDED. SEAT: BEMIS MODEL 3155SSCT EXTRA HEAVY WEIGHT, SOLID PLASTIC, OPEN FRONT, LESS COVER, STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, STA-TITE FASTENING SYSTEM, ANTIMICROBIAL.
U-1	URINAL	WALL HUNG FLUSH VALVE	VITREOUS CHINA	2"	1-1/2"	3/4"	-	FIXTURE: KOHLER DEXTER K-5016-ETSS-0 SIPHON-JET WALL-MOUNT 0.5 OR 1.0 GPF URINAL WITH TOP SPUD, ANTIMICROBIAL FLUSH VALVE: SLOAN G2 OPTIMA PLUS MODEL 8186-0.5-LH, BATTERY POWERED SENSOR OPERATED, EXPOSED DIAPHRAGM TYPE, 0.5 GALLONS PER FLUSH, WITH OVERRIDE, LESS HANDLE OPENING. CARRIER: ZURN Z1222 SERIES WALL URINAL SUPPORT SYSTEM WITH TOP AND BOTTOM SUPPORT PLATES. MOUNTING HEIGHT: REFER TO ARCHITECTURAL PLANS
L-2	LAVATORY	WALL HUNG ADA HEIGHT	VITREOUS CHINA	1-1/2"	1-1/2"	1/2"	1/2"	FIXTURE: TOTO LH242(G) PROMINENCE WALL-MOUNT LAVATORY, VITREOUS CHINA LOWER SHROUD, SINGLE FAUCET HOLE. FAUCET: KOHLER FORTE MODEL K-10215-4, BRUSHED NICKEL FINISH, CAST BRASS, SINGLE CONTROL, SINGLE HOLE MOUNTING, METAL POP-UP DRAIN AND TAILPIECE. TRAP: McGUIRE 1-1/4" X 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG. SUPPLIES: 1/2" X 3/8" CHROME-PLATED CAST BRASS ANGLE STOPS WITH WHEEL HANDLES, BRADED STAINLESS STEEL SUPPLY TUBES. INCLUDE TRUEBRO LAV GUARD 2 MODEL #103 E-Z UNDERSINK PIPING COVERS, WITH P-TRAP COVER AND TWO ANGLE VALVE AND SUPPLY COVERS. MIXING VALVE: TMV-1.
L-3	LAVATORY	UNDERMOUNT ACCESSIBLE	VITREOUS CHINA	1-1/2"	1-1/2"	1/2"	1/2"	FIXTURE: TOTO RENDEZVOUS LT579G 17" UNDERMOUNT BATHROOM SINK WITH OVERFLOW AND CEFIONTECT CERAMIC GLAZE. FAUCET: KOHLER FORTE MODEL K-10215-4, BRUSHED NICKEL FINISH, CAST BRASS, SINGLE CONTROL, SINGLE HOLE MOUNTING, METAL POP-UP DRAIN AND TAILPIECE. TRAP: McGUIRE 1-1/4" X 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG. SUPPLIES: 1/2" X 3/8" CHROME-PLATED CAST BRASS ANGLE STOPS WITH WHEEL HANDLES, BRAIDED STAINLESS STEEL SUPPLY TUBES. INCLUDE TRUEBRO LAV GUARD 2 MODEL #103 E-Z UNDERSINK PIPING COVERS, WITH P-TRAP COVER AND TWO ANGLE VALVE AND SUPPLY COVERS. MIXING VALVE: TMV-1.
L-4	LAVATORY	WALL HUNG ADA HEIGHT	VITREOUS CHINA	1-1/2"	1-1/2"	1/2"	1/2"	FIXTURE: AMERICAN STANDARD LUCERNE NO. 0355.012, 20" X 18", FRONT OVERFLOW, SELF-DRAINING DECK WITH SPLASH SHIELDS, FAUCET LEDGE WITH FAUCET HOLES ON 4" CENTERS. FAUCET: AMERICAN STANDARD COLONY PRO NO. 7075.054.002, POLISHED CHROME-PLATED CAST BRASS, SINGLE CONTROL CENTERSET, WITH 0.5 GPM VANDAL-RESISTANT AERATOR. MIXING VALVE: LEONARD LF-170 ASSE 1070 MIXING VALVE SET AT 105 DEG. F. TRAP: McGUIRE 155WC STRAINER WITH 1-1/4" OFFSET TAILPIECE, McGUIRE 1-1/4" X 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG. SUPPLIES: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE LAVATORY SUPPLY KITS, WITH WHEEL HANDLE ANGLE STOPS. CARRIER: ZURN Z1231 SERIES CONCEALED ARM SYSTEM FOR WALL LAVATORIES. INCLUDE TRUEBRO LAV GUARD 2 MODEL #103 E-Z UNDERSINK PIPING COVERS, WITH P-TRAP COVER, TWO ANGLE VALVE AND SUPPLY COVERS, AND OFFSET TAILPIECE COVER.
LT-1	LAUNDRY TUB	FLOOR MOUNTED DOUBLE BOWL	MOLDED STONE	1-1/2"	1-1/2"	1/2"	1/2"	FIXTURE: FIAT MODEL FLTD II TWIN TUB FLOOR MOUNTED SERV-A-SINK, 40" X 24" X 13-7/8" DEEP, WITH INTEGRAL DRAIN AND PLUG, WHITE BAKED ENAMEL STEEL ANGLE LEGS WITH LEVELING DEVICES. FAUCET: AMERICAN STANDARD LAUNDRY FAUCET MODEL 7573.240.002, POLISHED CHROME-PLATED CAST BRASS, 4" CENTERSET, SWIVEL SPOUT, LEVER HANDLES, 2.2 GPM AERATOR. TRAP: 1-1/2" CHROME-PLATED BRASS TAILPIECES, McGUIRE 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS CONTINUOUS WASTE AND P-TRAP WITH CLEANOUT PLUG. SUPPLIES: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE SUPPLY KITS, WITH WHEEL HANDLE ANGLE STOPS.
S-2	SINK	COUNTERTOP SINGLE BOWL ADA COMPLIANT	STAINLESS STEEL	1-1/2"	1-1/2"	1/2"	1/2"	FIXTURE: KOHLER TOCCATA MODEL K-3349-1, 15" X 15" X 7" DEEP, 19 GAUGE STAINLESS STEEL, SELF-RIMMING, WITH SOUND-ABSORPTION SYSTEM, SINGLE FAUCET HOLE, CENTERED DRAIN. FAUCET: KOHLER ESSEX MODEL K-8761-G BAR SINK FAUCET, POLISHED CHROME-PLATED CAST BRASS, SINGLE HOLE MOUNT, WITH WRIST BLADE HANDLES, 5-1/2" GOOSENECK SWING SPOUT. TRAP: KOHLER MODEL K-8813 STAINLESS STEEL DRAIN WITH BASKET STRAINER AND CHROME-PLATED BRASS TAILPIECE, McGUIRE 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG. SUPPLIES: 1/2" X 3/8" CHROME-PLATED CAST BRASS ANGLE STOPS WITH WHEEL HANDLES, BRADED STAINLESS STEEL SUPPLY TUBES.
EEW-1	EMERGENCY EYE/FACE WASH	WALL MOUNTED	ABS	1-1/2"	1-1/2"	1/2"	1/2"	FIXTURE: HAWS MODEL 7360BT-7460BT, EYE/FACE WASH HEAD WITH DUST COVER, STAINLESS STEEL BOWL, CHROME PLATED BRASS STAY-OPEN EYEWASH VALVE WITH PUSH HANDLE, CAST ALUMINUM WALL BRACKET, 1-1/2" CHROME PLATED BRASS TAILPIECE AND P-TRAP. MIXING VALVE: HAWS MODEL 9201EFE THERMOSTATIC MIXING VALVE FOR EMERGENCY EYEWASH EQUIPMENT, WITH MODEL 9200REC RECESSED STAINLESS STEEL CABINET.
MB-1	MOP BASIN	24" X 24"		3"	2"	1/2"	1/2"	FIXTURE: BUILT ON SITE BY GC. FAUCET: AMERICAN STANDARD EXPOSED YOKE WALL-MOUNT UTILITY FAUCET NO. 8354.112.004, ROUGH CHROME-PLATED CAST BRASS, ADJUSTABLE CENTERS, INTEGRAL SUPPLY STOPS, OFFSET SHANKS WITH INTEGRAL CHECK VALVES, CAST BRASS SPOUT WITH VACUUM BREAKER, HOSE THREAD OUTLET, PAIL HOOK, AND TOP RACEL. ADDITIONAL EQUIPMENT: PROVIDE FIAT 889CC MOP BRACKET, 832AA HOSE AND BRACKET, MSG2424 STAINLESS STEEL WALL GUARD PANELS.
EW-1	ELECTRIC WATER COOLER / BOTTLE FILLER	WALL MOUNTED DUAL HEIGHT	STAINLESS STEEL	1-1/2"	1-1/2"	1/2"	-	FIXTURE: ELKAY MODEL LZSTLBWSLP, BARRIER-FREE, SELF CONTAINED, 8.0 GPH, PUSH BUTTON CONTROLS, STAINLESS STEEL CONSTRUCTION, SAFETY BUBBLERS, WITH ELECTRONIC BOTTLE FILLER. TRAP: McGUIRE 1-1/2" 17 GAUGE P-TRAP. SUPPLY: McGUIRE 1/2" X 3/8" CAST BRASS STOP WITH WHEEL HANDLE, OR 1/2" FULL PORT BALL VALVE.
EW-2	BOTTLE FILLING STATION	WALL MOUNTED ADA COMPLIANT	STAINLESS STEEL	1 1/4"	1 1/4"	1 1/2"	-	FIXTURE: HAWS MODEL 2000S BRITA HYDRATION STATION WITH LIFECYCLE CONTROL, RECESSED MOUNT, SELF-CONTAINED, 0.5 GPM BOTTLE FILL RATE, INTEGRAL DRAIN, MOUNT AT ADA HEIGHT. TRAP: McGUIRE 1-1/4" 17 GAUGE P-TRAP. SUPPLY: McGUIRE 1/2" X 3/8" CAST BRASS STOP WITH WHEEL HANDLE, OR 1/2" FULL PORT BALL VALVE.
EW-3	ELECTRIC WATER COOLER / BOTTLE FILLER	WALL MOUNTED DUAL HEIGHT	STAINLESS STEEL	1-1/2"	1-1/2"	1/2"	-	FIXTURE: ELKAY MODEL VRCTLBWSK (LOWER UNIT ON RIGHT) OR VRCTLBWSK (LOWER UNIT ON LEFT), BARRIER-FREE, SELF CONTAINED, 8.0 GPH, PUSH BUTTON CONTROLS, STAINLESS STEEL CONSTRUCTION, VANDAL-RESISTANT, ONE PIECE VANDAL-RESISTANT BUBBLERS, FOR INDOOR/OUTDOOR USE, WITH ELECTRONIC BOTTLE FILLER. TRAP: McGUIRE 1-1/2" 17 GAUGE P-TRAP. SUPPLY: McGUIRE 1/2" X 3/8" CAST BRASS STOP WITH WHEEL HANDLE, OR 1/2" FULL PORT BALL VALVE.
NOTE: CODE COMPLIANT FIXTURE AND TRIM SUBSTITUTIONS APPROVED BY OWNER AND HOTEL BRAND ARE ACCEPTABLE.								

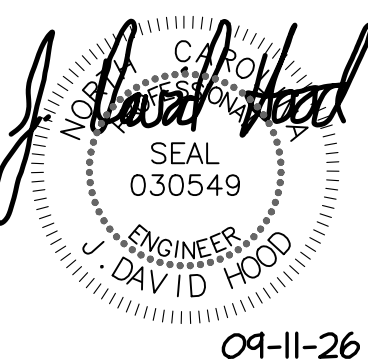
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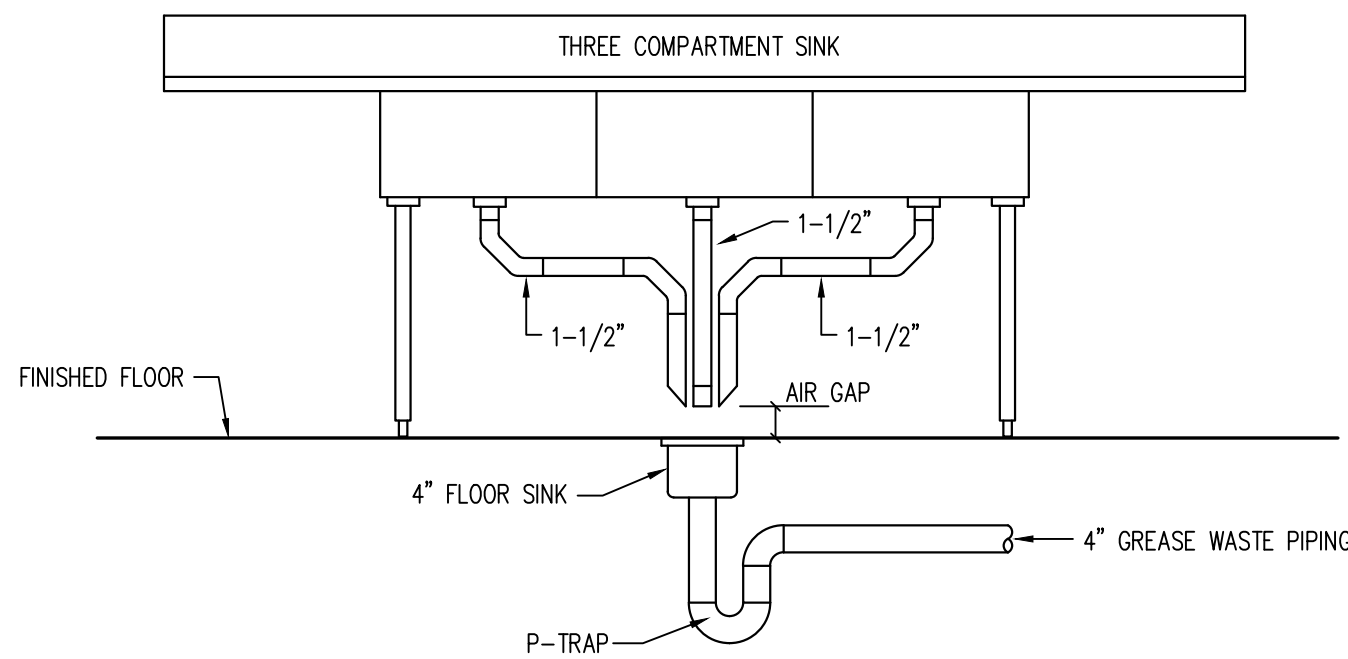
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3	09/11/2026	Coordination

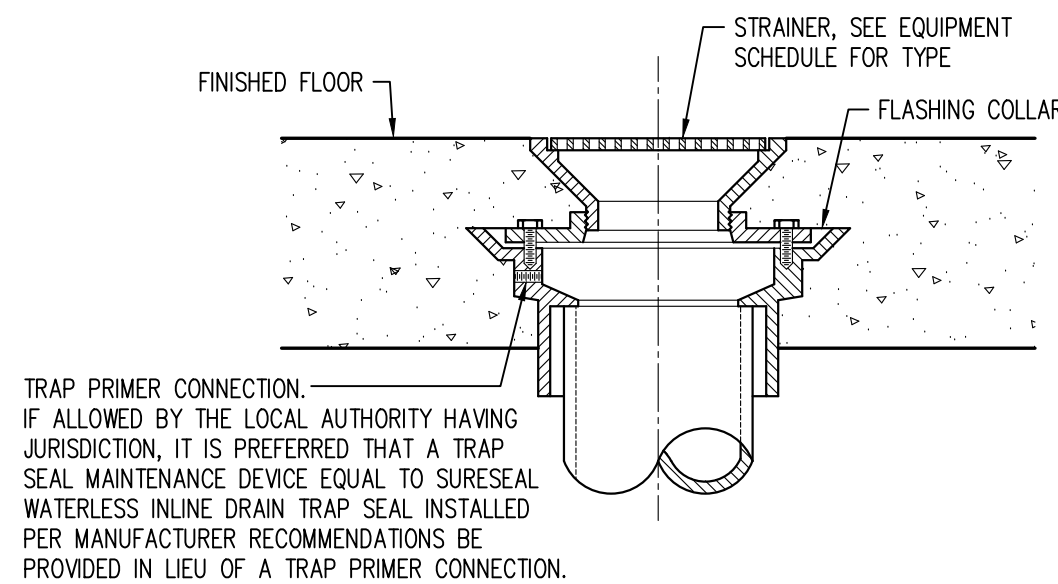
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JDH
checked by:
CED
project no:
25-104

PLUMBING
SCHEDULES

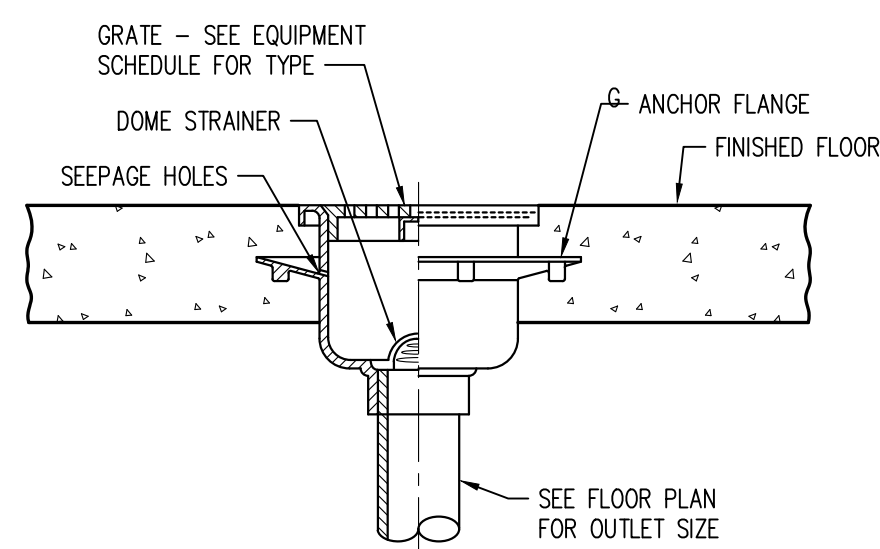
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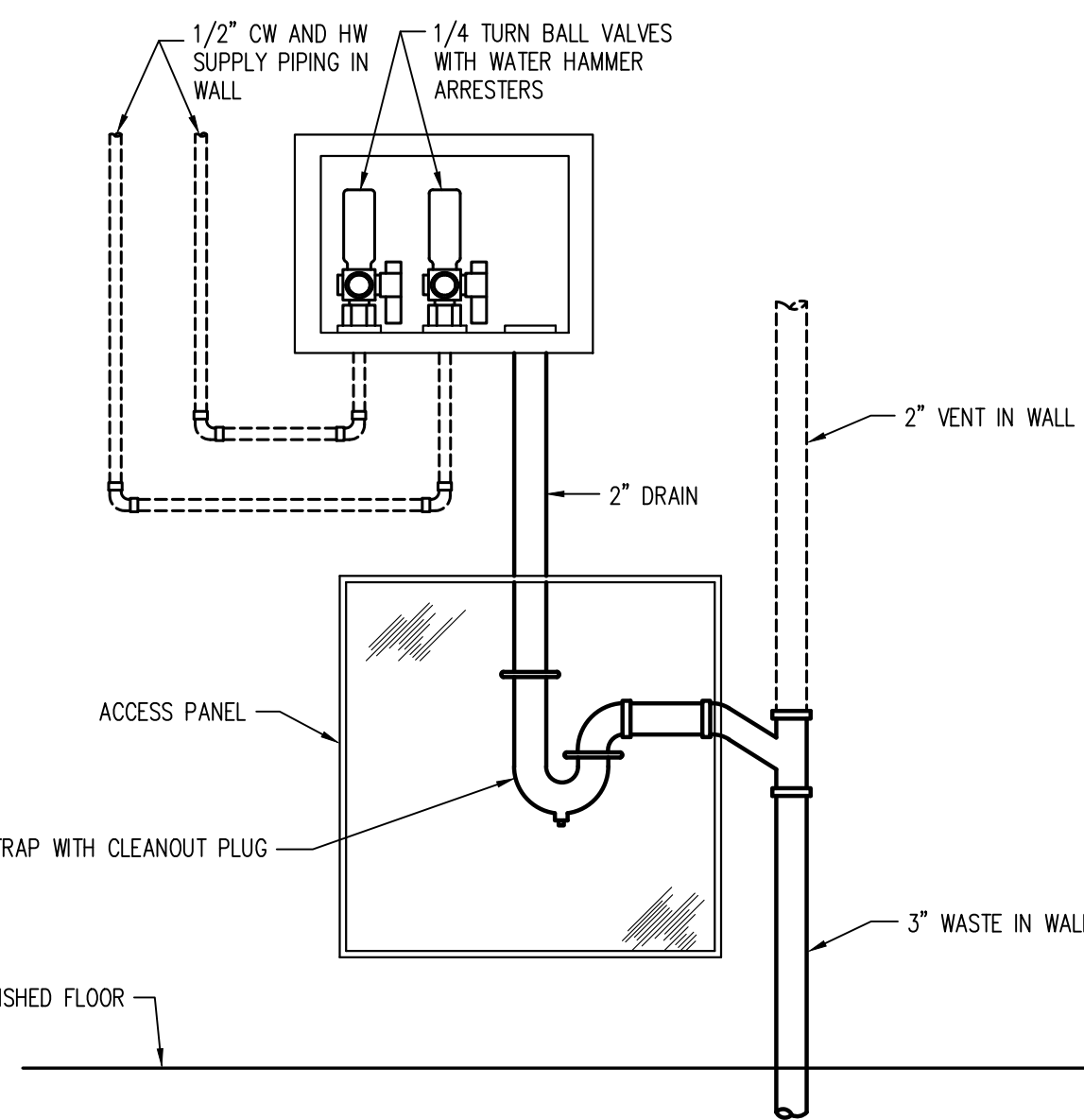
1 **THREE COMPARTMENT SINK DETAIL**
P030 NOT TO SCALE



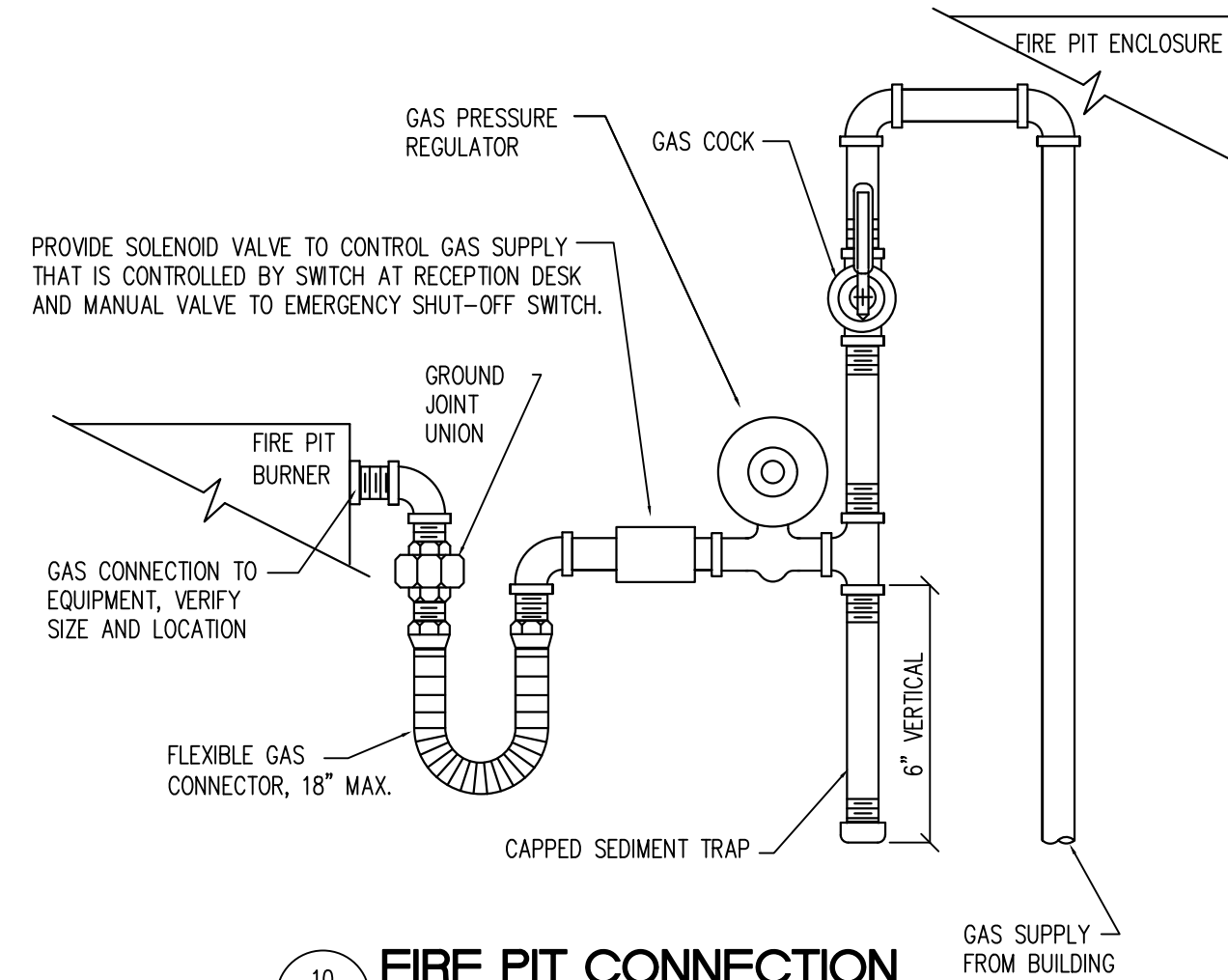
3 **FLOOR DRAIN DETAIL**
P030 NOT TO SCALE



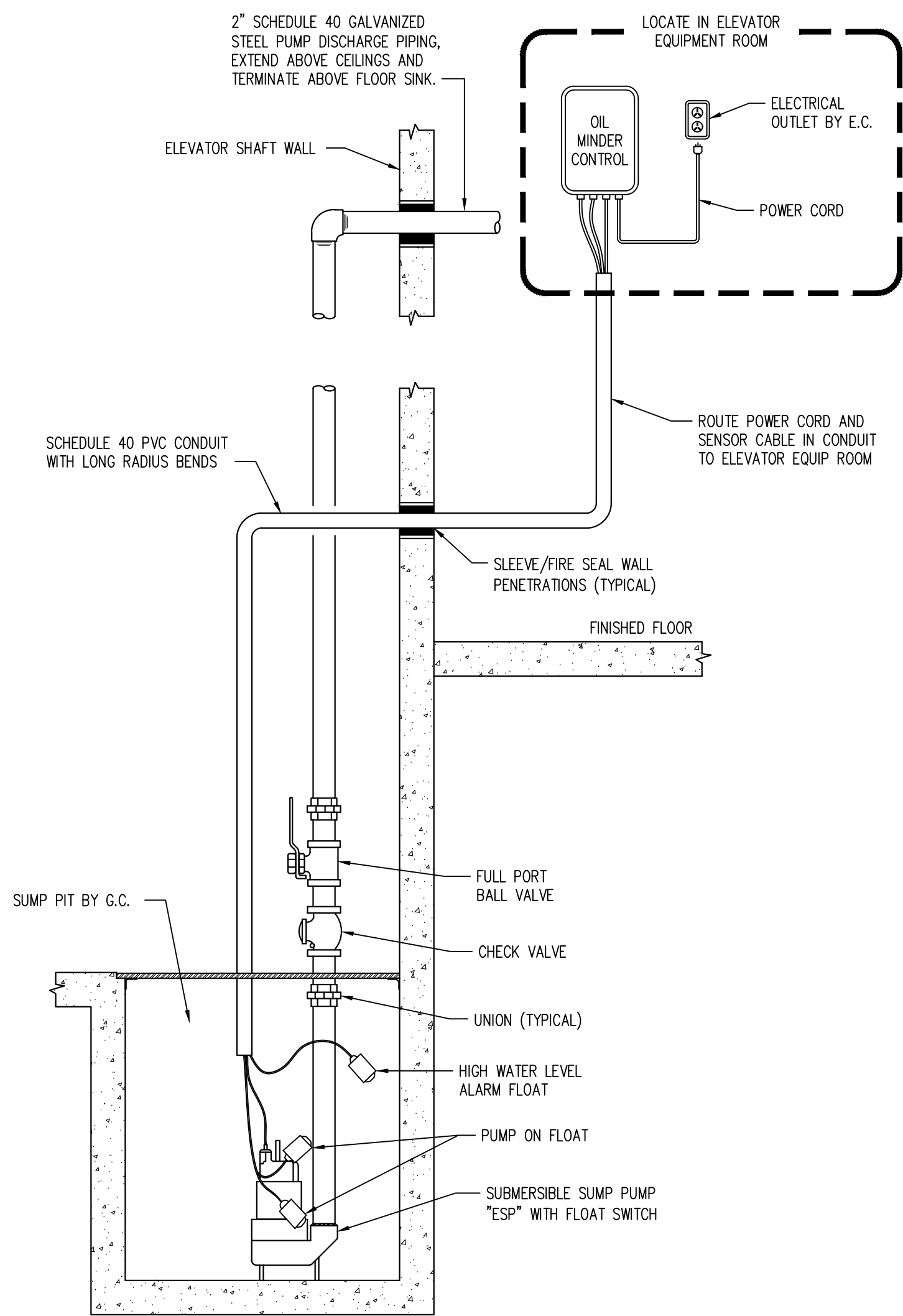
4 **FLOOR SINK DETAIL**
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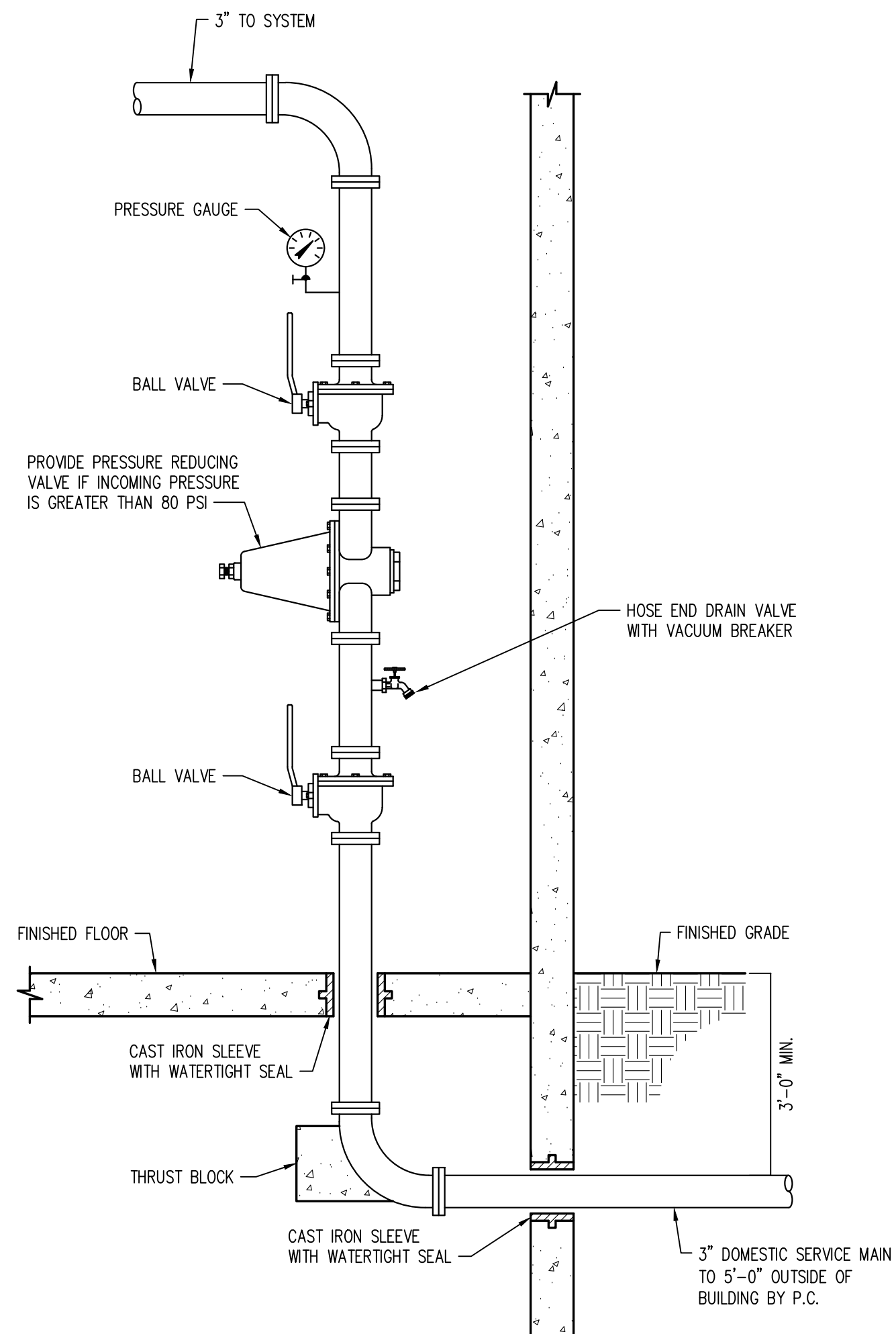
2 **WASHING MACHINE OUTLET BOX DETAIL**
P030 NOT TO SCALE



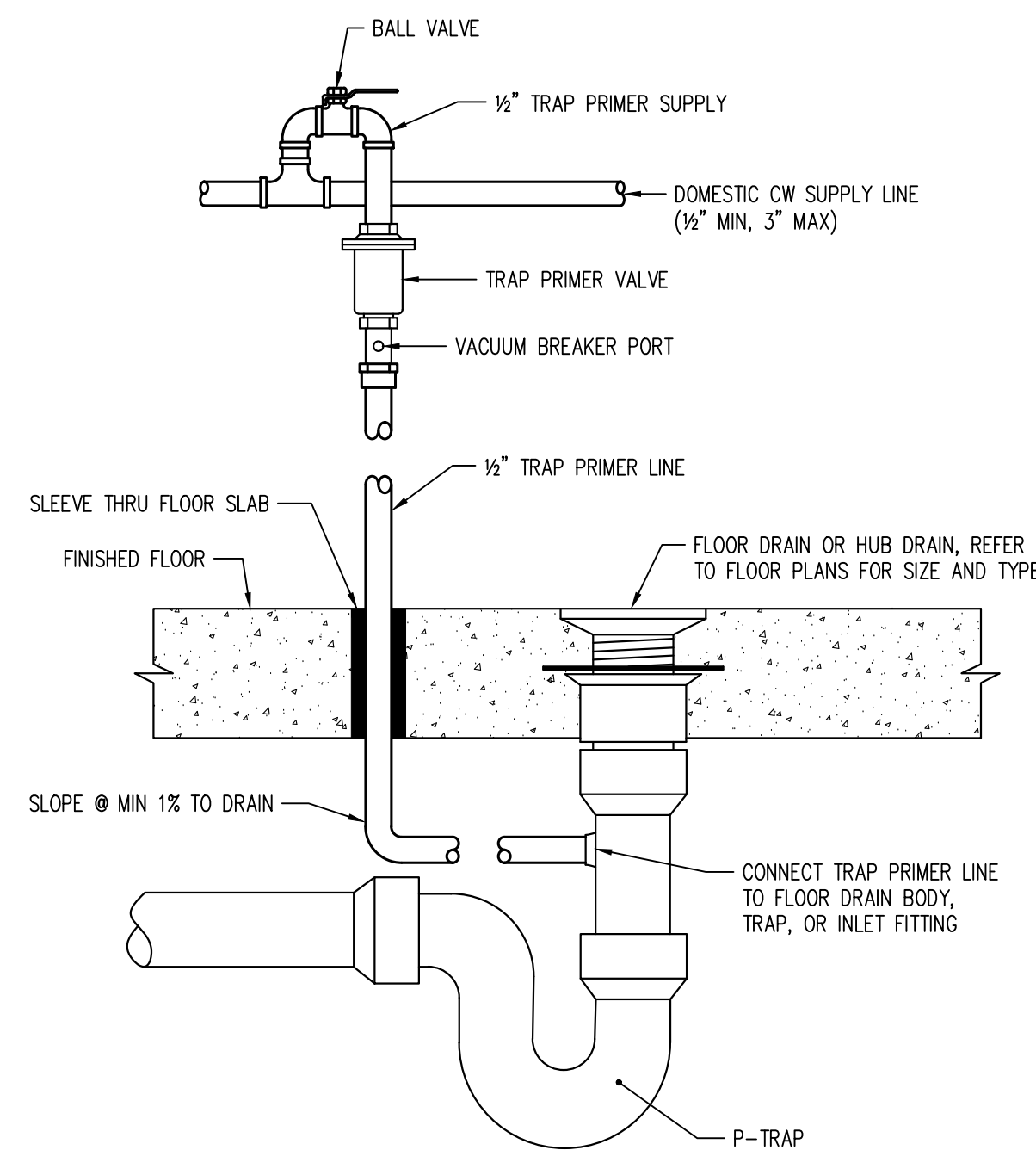
10 **FIRE PIT CONNECTION**
P030 NOT TO SCALE



5 **ELEVATOR SUMP PUMP DETAIL**
P030 NOT TO SCALE

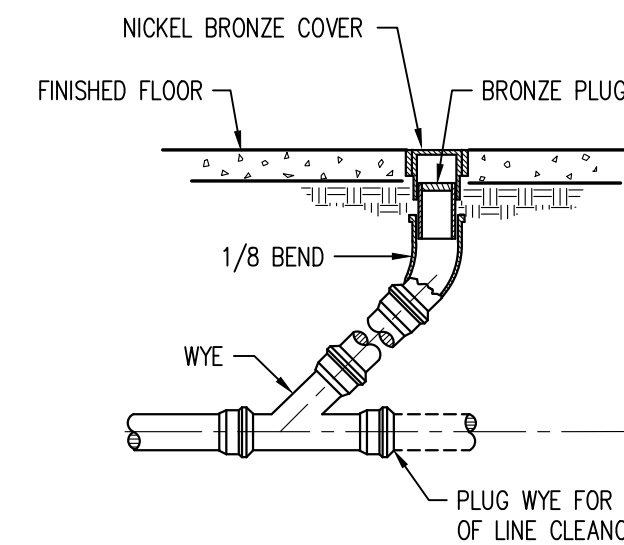


6 **DOMESTIC SERVICE RISER DETAIL**
P030 NOT TO SCALE

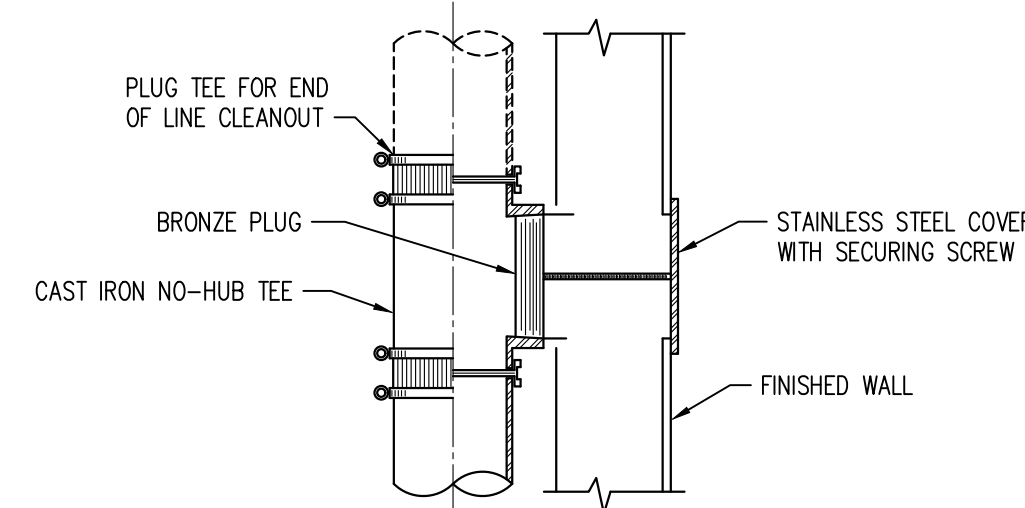


- TRAP PRIMER NOTES:
1. PROVIDE TRAP PRIMER VALVES FOR ALL FLOOR DRAINS AND HUB DRAINS, EXCEPT SHOWER DRAINS.
 2. TRAP PRIMER VALVES SHALL BE SIOUX CHIEF PRIME PERFECT SERIES 695, OR EQUAL.
 3. CONNECT TRAP PRIMER VALVE TO CW LINE: 1/2" MIN. ~ 3" MAX.
 4. PROVIDE SIOUX CHIEF WYE SPLITTER AND/OR DISTRIBUTOR FOR TRAP PRIMER VALVES SERVING MORE THAN ONE FLOOR DRAIN.
 5. MAXIMUM OF EIGHT FLOOR DRAINS MAY BE SERVED BY ONE TRAP PRIMER VALVE.

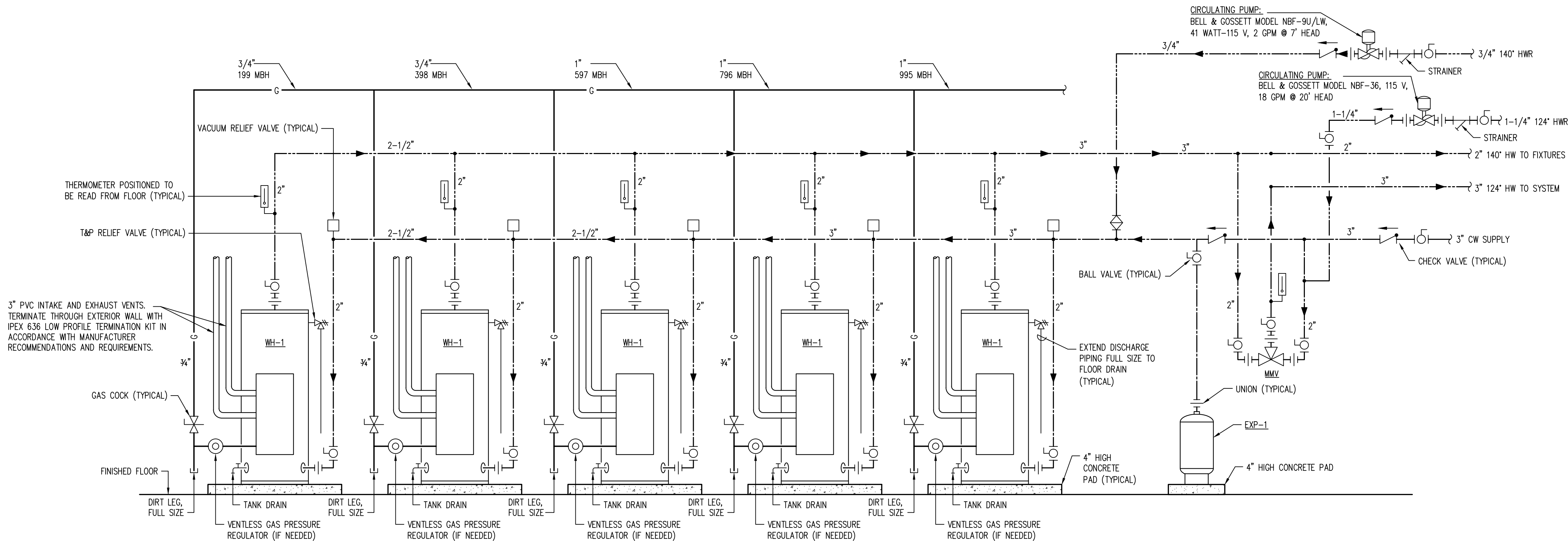
7 **TRAP PRIMER DETAIL**
P030 NOT TO SCALE



9 **FLOOR CLEANOUT DETAIL**
P030 NOT TO SCALE



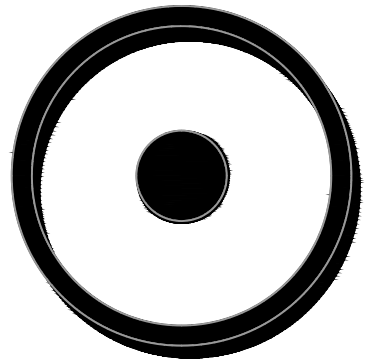
8 **WALL CLEANOUT DETAIL**
P030 NOT TO SCALE



- NOTES:
1. PROVIDE HEAT TRAPS AS REQUIRED PER LOCAL CODE, UNLESS WATER HEATER HAS INTEGRAL HEAT TRAPS.
 2. WATER HEATER AND RELATED COMPONENTS SHALL BE INSTALLED PER CODE AND MANUFACTURER'S INSTRUCTIONS.
 3. PROVIDE NEUTRALIZATION KIT EQUAL TO AXIOM MODEL NC-1.
 4. MIXING VALVE PIPING SCHEMATIC IS BASED ON A GENERIC MIXING VALVE. MODIFY AS REQUIRED PER MANUFACTURER RECOMMENDATIONS FOR PROVIDED VALVE.

1 WATER HEATER DETAIL
P040 NOT TO SCALE

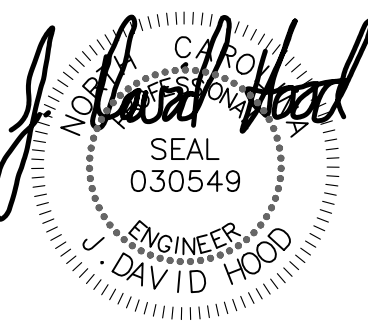
DOMESTIC WATER PRESSURE BOOSTER SYSTEM																
EQUIP. NO.	SERVICE LOCATION	NO. OF PUMPS	GPM/EA PUMP	SYSTEM PRESSURE VALUES				MOTOR DATA AND VALUES			CONTROL PANEL				REMARKS	DESIGN BASIS MODEL
				TDH [Feet]	SUCTION [PSI]	BOOST [PSI]	SET [PSI]	RPM	HP	kWh PER YR.	VOLTAGE	PHASE	FULL LOAD	MAX. SCCR		
BP-1	STOR. 137	2	84	49.83	57.00	21.57	73.57	3,450	3	6682.5	230	Single Phase	33.46	100KAIC	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	QUANTUMFLO-48342: WISPERFLO DUPLEX VQSG_85S/2(4")
1. NET BOOST PRESSURE IS CALCULATED BY SYSTEM SET PRESSURE MINUS SUCTION PRESSURE LESS SYSTEM LOSSES OF 5 PSI 2. SYSTEM SUBMITTALS SHALL INCLUDE CERTIFICATE NUMBER FOR NSF61 CERTIFICATION, UL508A AND QCZJ 3RD PARTY COMPLIANCE. 3. SYSTEM MUST BE MANUFACTURED AND ASSEMBLED IN AN ISO 9001 AND ISO 45001 CERTIFIED FACILITY 4. SYSTEM CONTROLS MUST COMPLY WITH AND PROVIDE FOR EITHER CONTROL LOGIC OR REMOTE SENSOR IN ACCORDANCE WITH ANSI/ASHRAE/IES STANDARD 90.1 ENERGY STANDARD 5. PROVIDE 5-YEAR WARRANTY ON COMPLETE SYSTEM AND INCLUDE WARRANTY CERTIFICATE WITH DETAILS IN SUBMITTALS 6. SYSTEM SHALL BE PRE-SET TO SYSTEM SITE CONDITIONS BY SIMULATING SUCTION PRESSURE. HYDROSTATIC-ONLY TESTING IS NOT ACCEPTABLE. 7. THE INDUSTRIAL CONTROLLER SHALL BE IN COMPLIANCE WITH CURRENT NEC, SECTION 409.110 HAVING A MAXIMUM 100K AVAILABLE FAULT CURRENT. 8. SCCR RATINGS MUST BE INCLUSIVE OF ALL COMPONENTS WITHIN THE ENCLOSURE WITHOUT THE NEED TO PROVIDE ADDITIONAL UPSTREAM PROTECTION. 9. EQUAL SYSTEMS MUST SHOW MATHEMATICAL ANALYSIS PROVING THAT THE ALTERNATE SUPPLIER MEETS OR EXCEEDS THE KW CAPACITY LISTED. 10. PROVIDE THE FOLLOWING OPTIONS: GENERAL ALARM DRY CONTACT RELAY; MONITORS: SENSOR FAIL, LOW SUCTION/LEVEL & HIGH SYSTEM AND VFD FAULTS, 4" 316SS NSF61 FLEX CONNECTOR, GROOVED (INCLUDES COUPLING), 4" 11. REPRESENTATIVE: OTTO SALES. PHONE: (804) 798-2600 12. BASED ON PROJECT: 25165 HAMPTON INN AND SUITES LELAND (048342)																



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09-11-26

FOR CONSTRUCTION

HAMPTON INN & SUITES by HILTON

OLD WATERFORD WAY
LELAND, NC 28451

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1	04/16/2026	Hilton Comments
2	07/14/2026	Site Liaison Coord.
3	09/11/2026	Coordination

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JDH

checked by:
CED

project no:
25-104

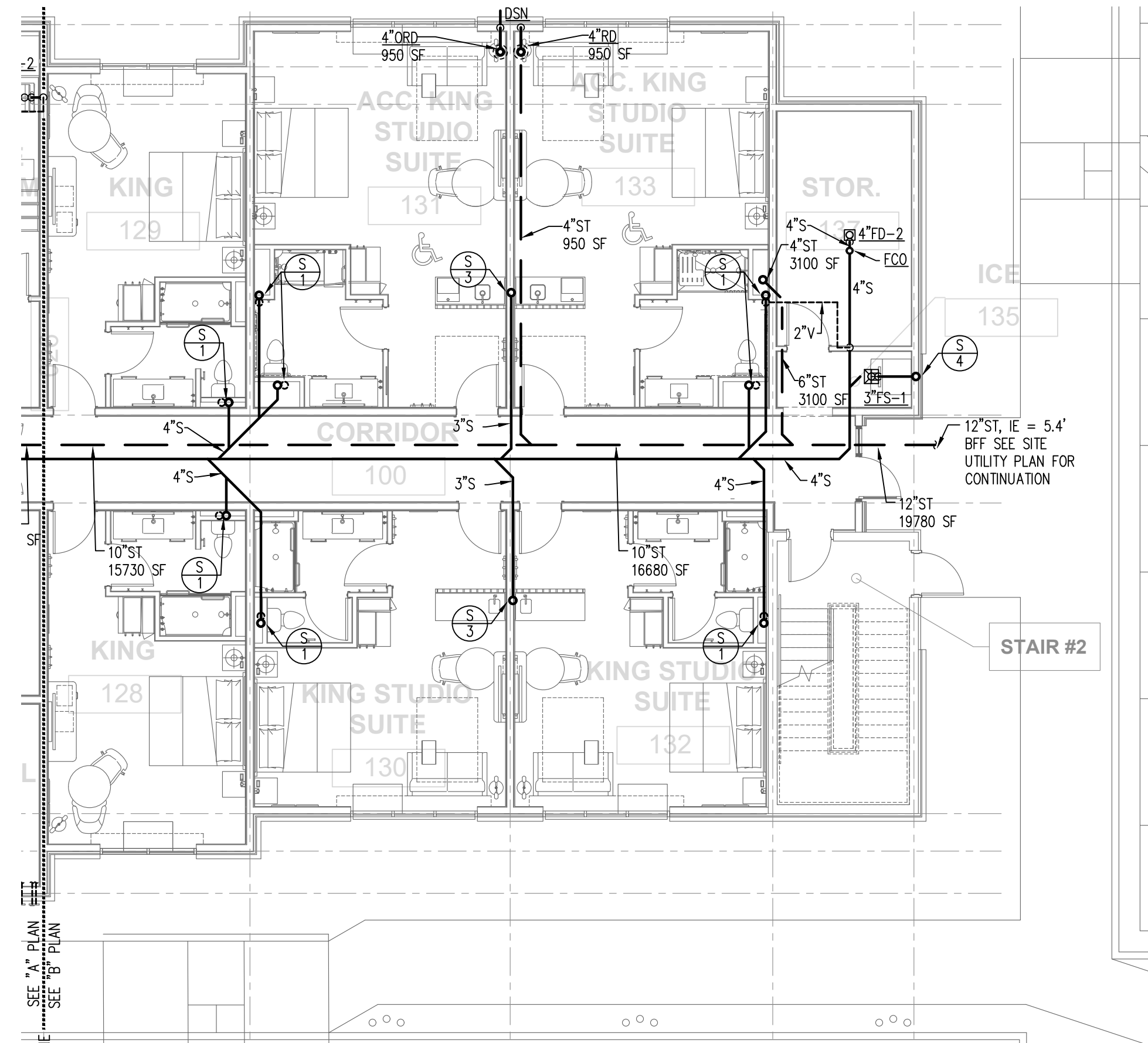
PLUMBING DETAILS

P040

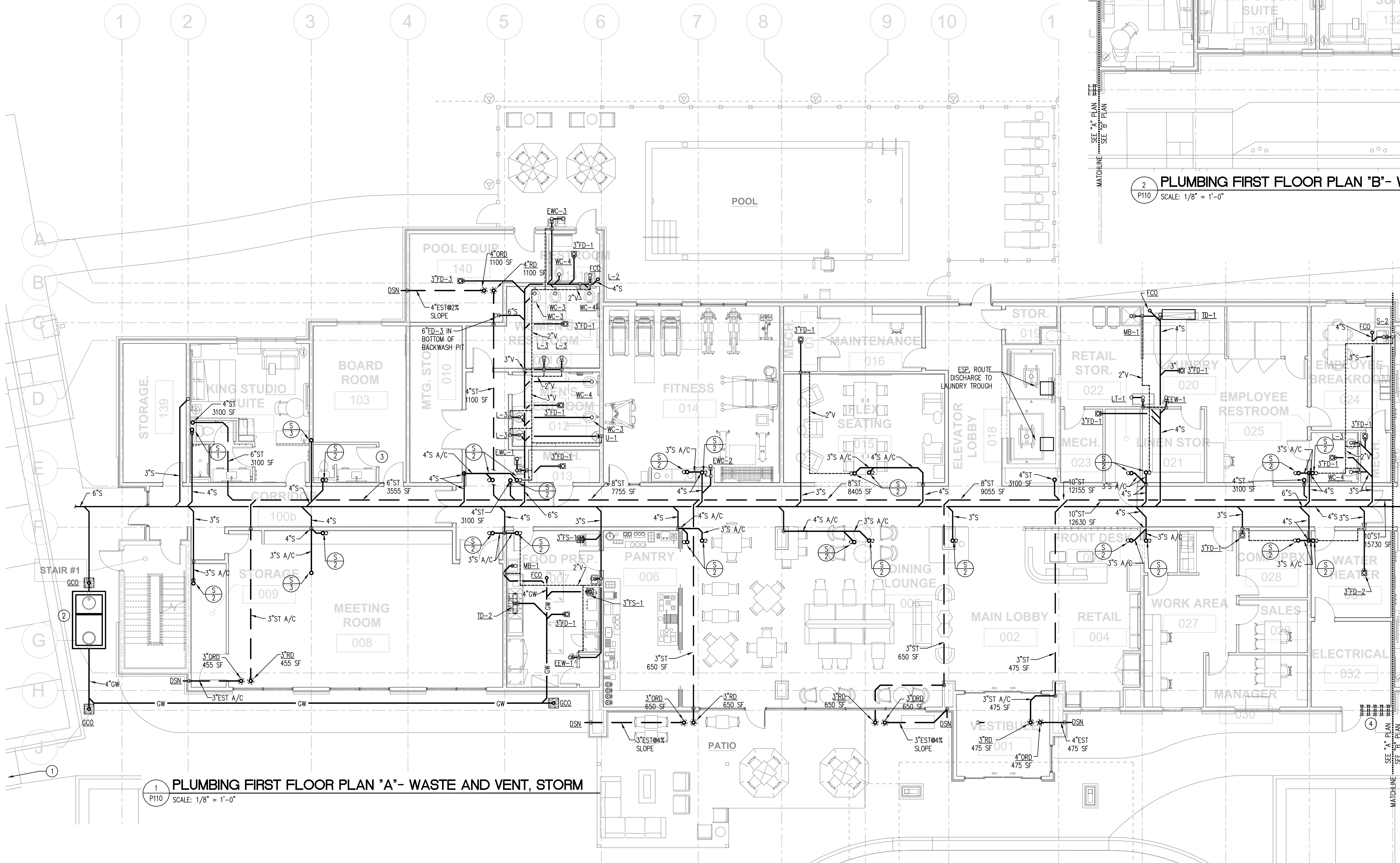
KEYED NOTES THIS SHEET

- 1 PROVIDE DRAIN FOR DUMPSTER ENCLOSURE, ROUTE TO STORM, COORDINATE REQUIREMENTS WITH CIVIL PLANS
- 2 PROVIDE 1000 GALLON PRECAST GREASE INTERCEPTOR INSTALLED IN COMPLIANCE WITH LOCAL REQUIREMENTS
- 3 BOARD ROOM 103 IS SIMILAR TO A KING ROOM, MINUS THE SHOWER, FROM A PLUMBING ASPECT.
- 4 PROVIDE IPGX 636 LOW PROFILE CONCENTRIC VENT TERMINATION KIT, INSTALL PER MFR RECOMMENDATIONS. (TYP OF 5), ROUTE TWO 3" PVC FROM EACH KIT TO A WATER HEATER IN WATER HEATER 031.

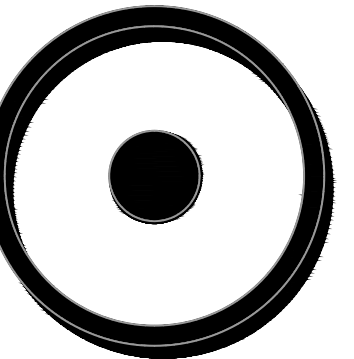
STORM DRAINAGE ADDED FOR FIVE LOW ROOF AREAS NOT OVER THE VESTIBULE, CLOUDING NOT SHOWN FOR CLARITY. THE SIZE OF THE BUILDING STORM DRAIN DID NOT CHANGE



2 PLUMBING FIRST FLOOR PLAN "B"- WASTE AND VENT, STORM
SCALE: 1/8" = 1'-0"



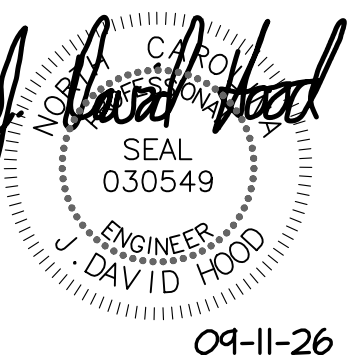
1 PLUMBING FIRST FLOOR PLAN "A"- WASTE AND VENT, STORM
SCALE: 1/8" = 1'-0"



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04-11-26

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2	07/14/2026	Site Layout Coord.
3	09/11/2026	Coordination

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JDH

checked by:

CED

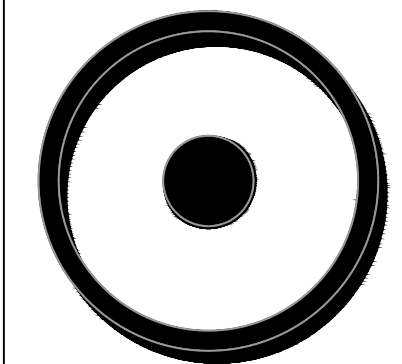
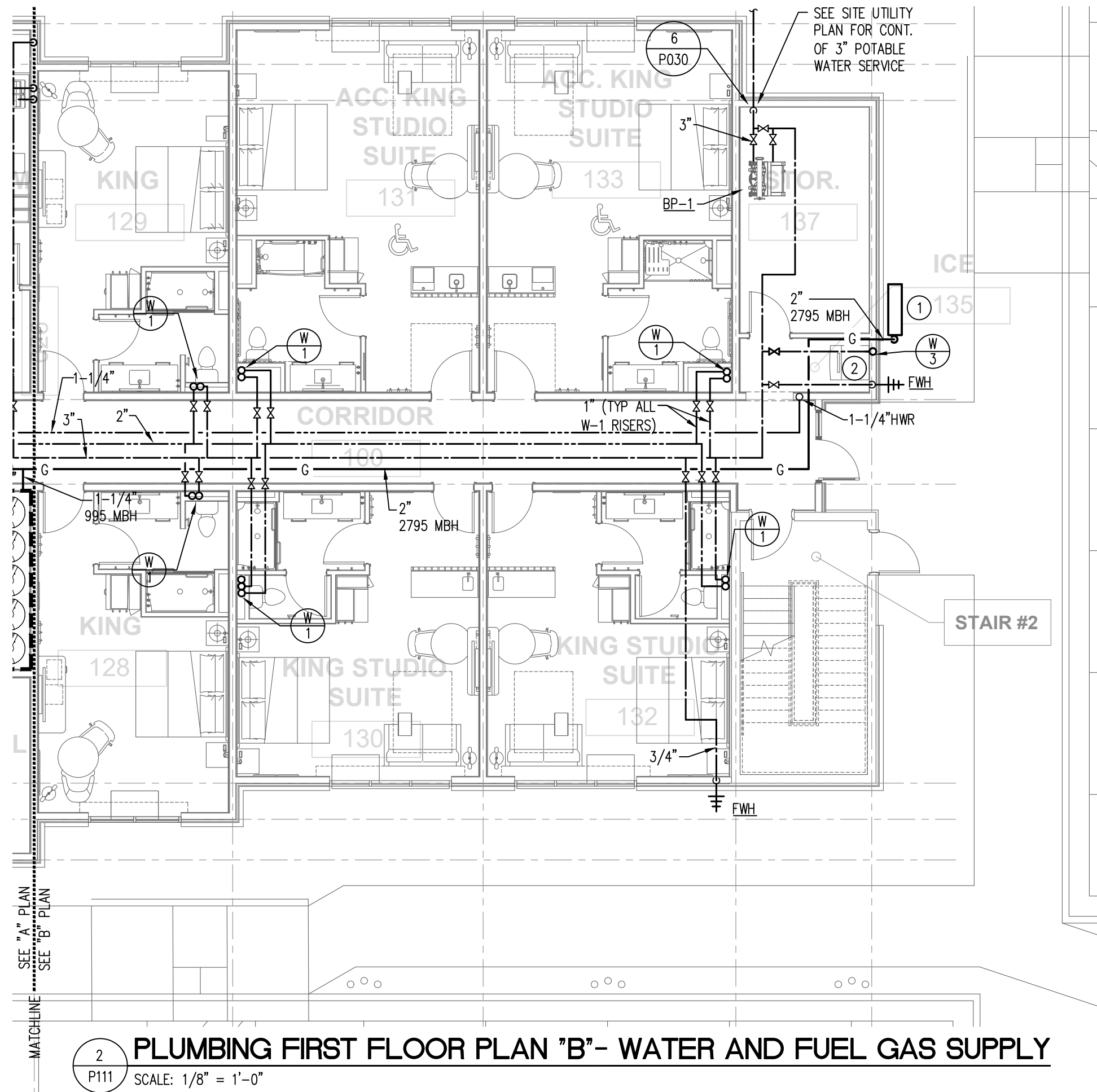
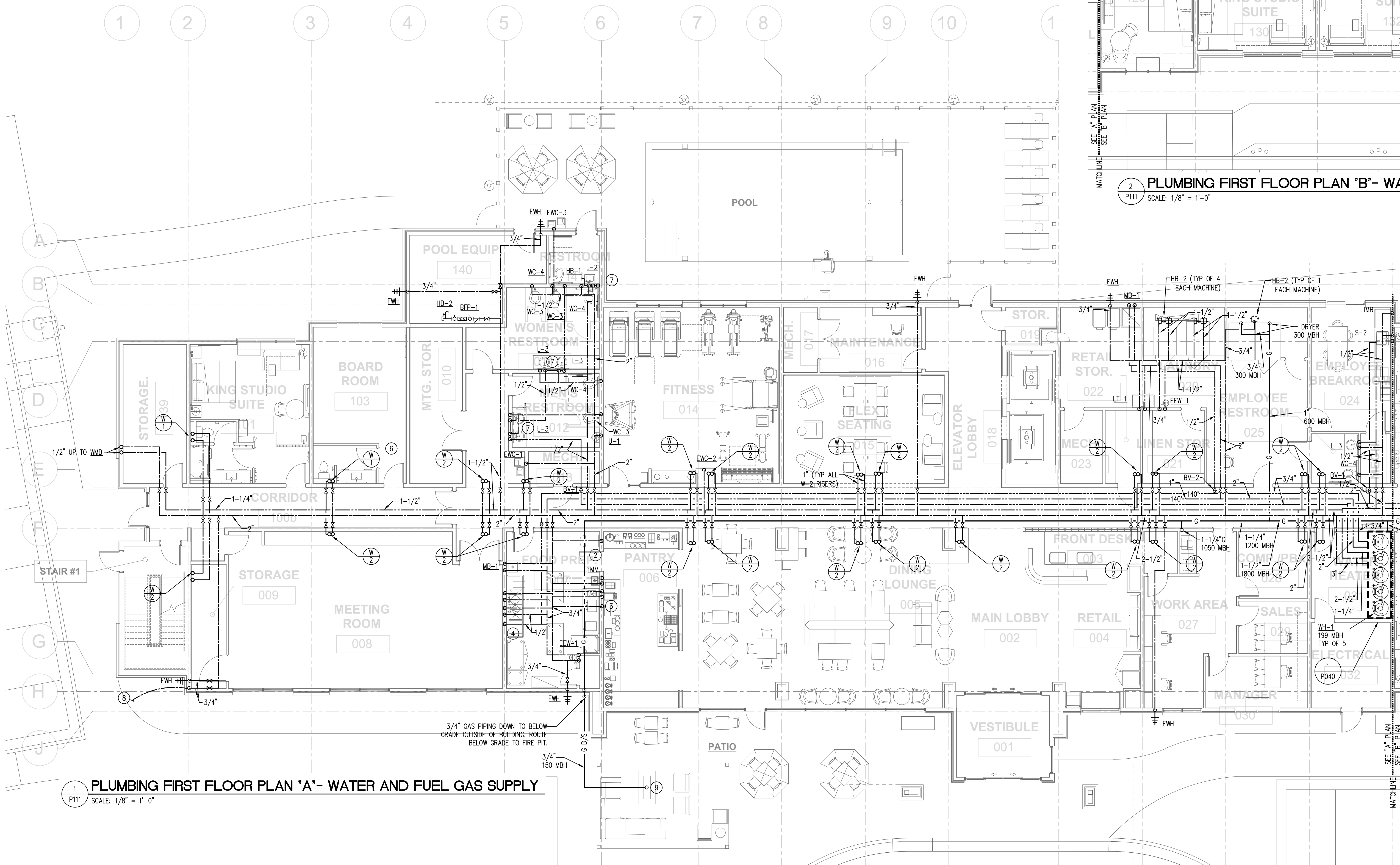
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PLUMBING FIRST
FLOOR PLAN -
WASTE, VENT AND
STORM

P110

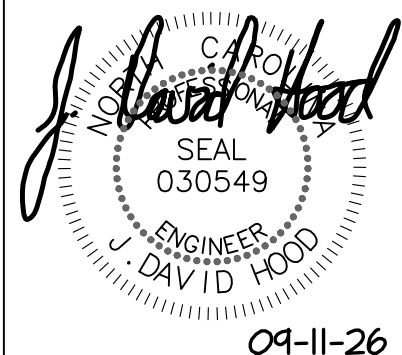
- KEYED NOTES THIS SHEET
- 1 PROPOSED GAS SERVICE LOCATION. COORDINATE GAS SERVICE WITH LOCAL GAS COMPANY. TOTAL CONNECTED LOAD = 2795 MBH. SYSTEM DEVELOPED LENGTH = 400'. PIPING IS SIZED BASED ON A SYSTEM PRESSURE OF 2 PSI WITH A 1 PSI PRESSURE DROP PER 2018 MFGC TABLE 402.4(5).
 - 2 1/2" CW TO CONNECTION ON ICE MACHINE. PROVIDE BALL VALVE, WF-1, AND AND BFP-2 AT CONNECTION.
 - 3 CONNECT 1/2" CW TO COFFEE MACHINE WITH BALL VALVE, WF-1, AND BFP-2. VERIFY SIZE AND LOCATION OF CONNECTION WITH EQUIPMENT SUPPLIER.
 - 4 1/2" HW TO CONNECTION ON DISHWASHER. PROVIDE BALL VALVE AND BFP-2 AT CONNECTION, UNLESS DISHWASHER HAS INTEGRAL CHECK VALVE.
 - 5 CONNECT 1/2" CW TO JUICE MACHINE WITH BALL VALVE, WF-1, AND BFP-1. VERIFY SIZE AND LOCATION OF CONNECTION WITH EQUIPMENT SUPPLIER.
 - 6 BOARD ROOM 103 IS SIMILAR TO A KING ROOM, MINUS THE SHOWER, FROM A PLUMBING ASPECT.
 - 7 DROP HW LOOP TO BEHIND FIXTURE AT ROUGH-IN HEIGHT.
 - 8 EXTEND 3/4" CW PIPING BELOW GRADE TO DUMPSTER ENCLOSURE. PROVIDE EGH OUTSIDE OF ENCLOSURE, REFER TO ARCHITECTURAL OR CIVIL SITE PLAN FOR DUMPSTER PAD LOCATION. PROVIDE PERMANENT SIGN AT HYDRANT THAT STATES "CAUTION, NONPOTABLE WATER, DO NOT DRINK"
 - 9 CONNECT GAS PIPING TO FIRE PIT, 150 MBH. PROVIDE SOLENOID VALVE TO CONTROL GAS SUPPLY THAT IS CONTROLLED BY SWITCH AT RECEPTION DESK



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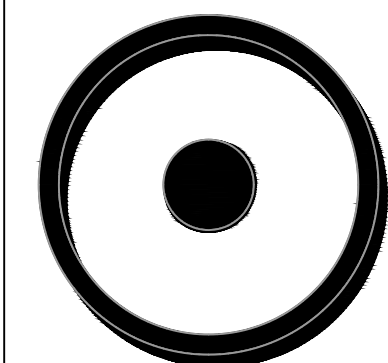
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JDH
checked by:
CED
project no:
25-104

PLUMBING FIRST
FLOOR PLAN -
WASTE, VENT AND
STORM

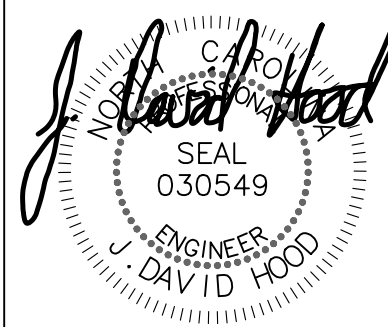
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04-11-26

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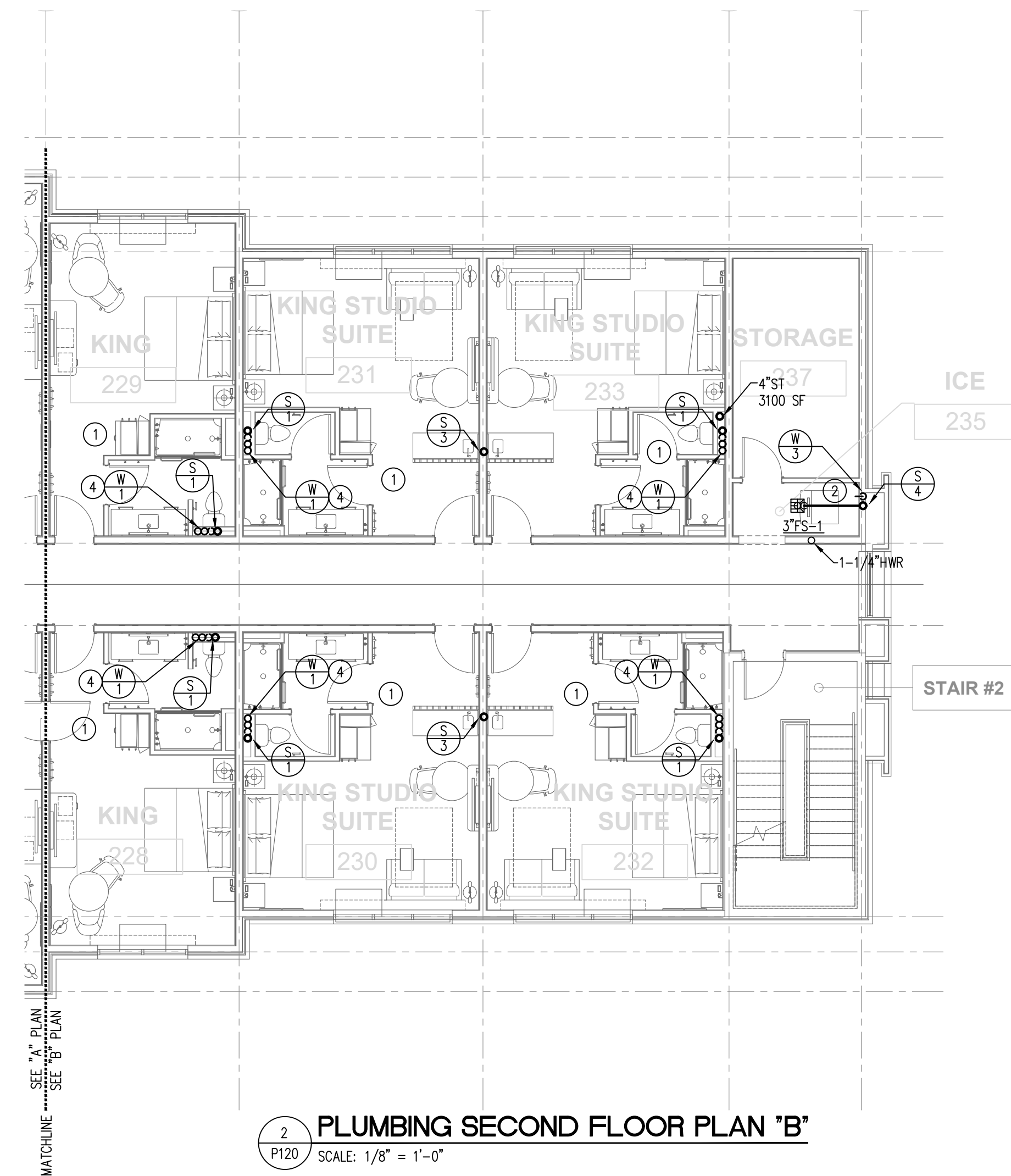
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PLUMBING SECOND
FLOOR PLAN

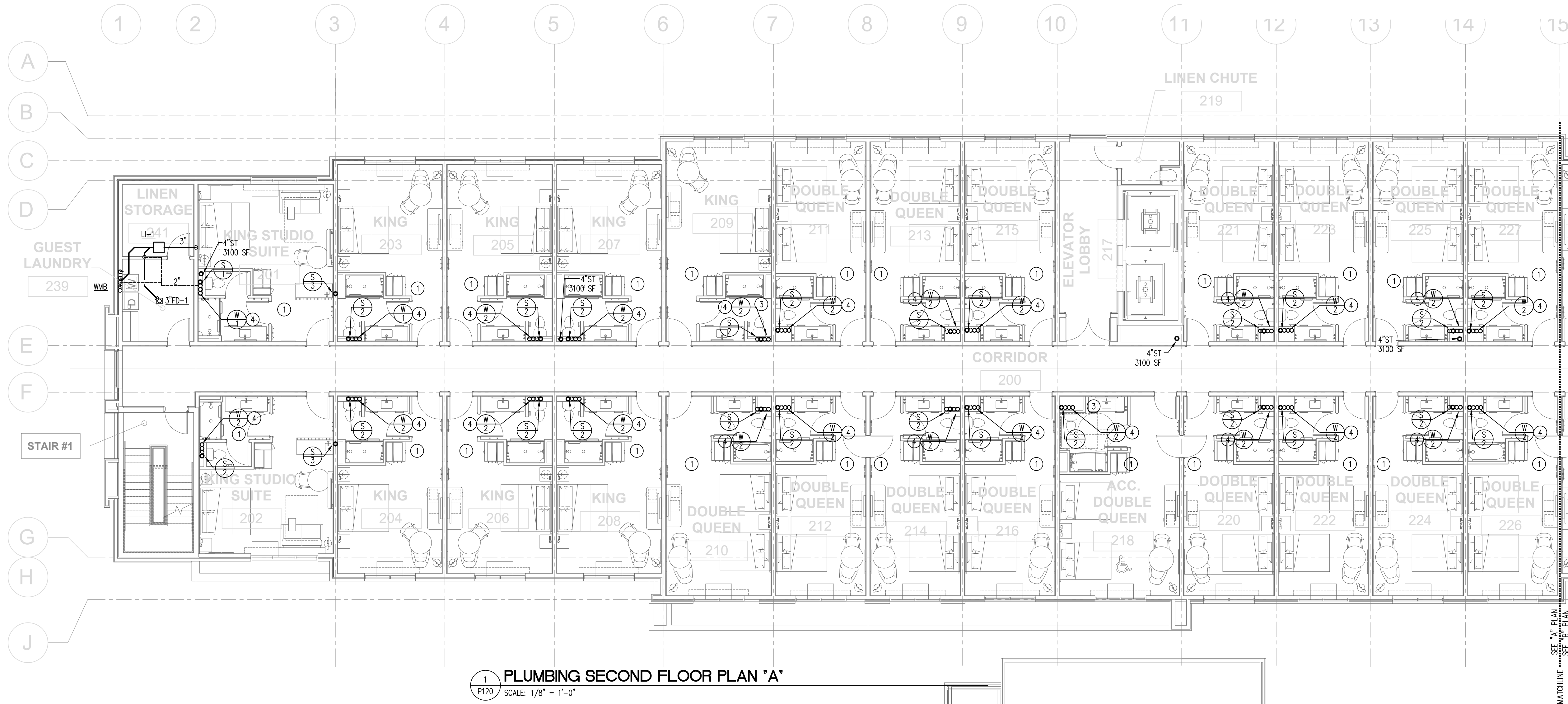
P120

KEYED NOTES THIS SHEET

- 1 REFER TO GUEST ROOM PLANS ON P210 FOR PIPING IN GUESTROOMS.
- 2 1/2" CW TO CONNECTION ON ICE MACHINE. PROVIDE BALL VALVE, WE-1, AND AND BFP-1 AT CONNECTION.
- 3 TRANSITION IF REQUIRED TO OFFSET WATER AND WASTE RISERS.
- 4 ROUTE WATER RISERS WITHIN CAVITY ALONG SAME PATH AS SAN. SOME RISERS MAY SHOW ON PLAN OUTSIDE OF THE CAVITY BUT THE INTENT IS TO ROUTE THEM IN THE CAVITY.

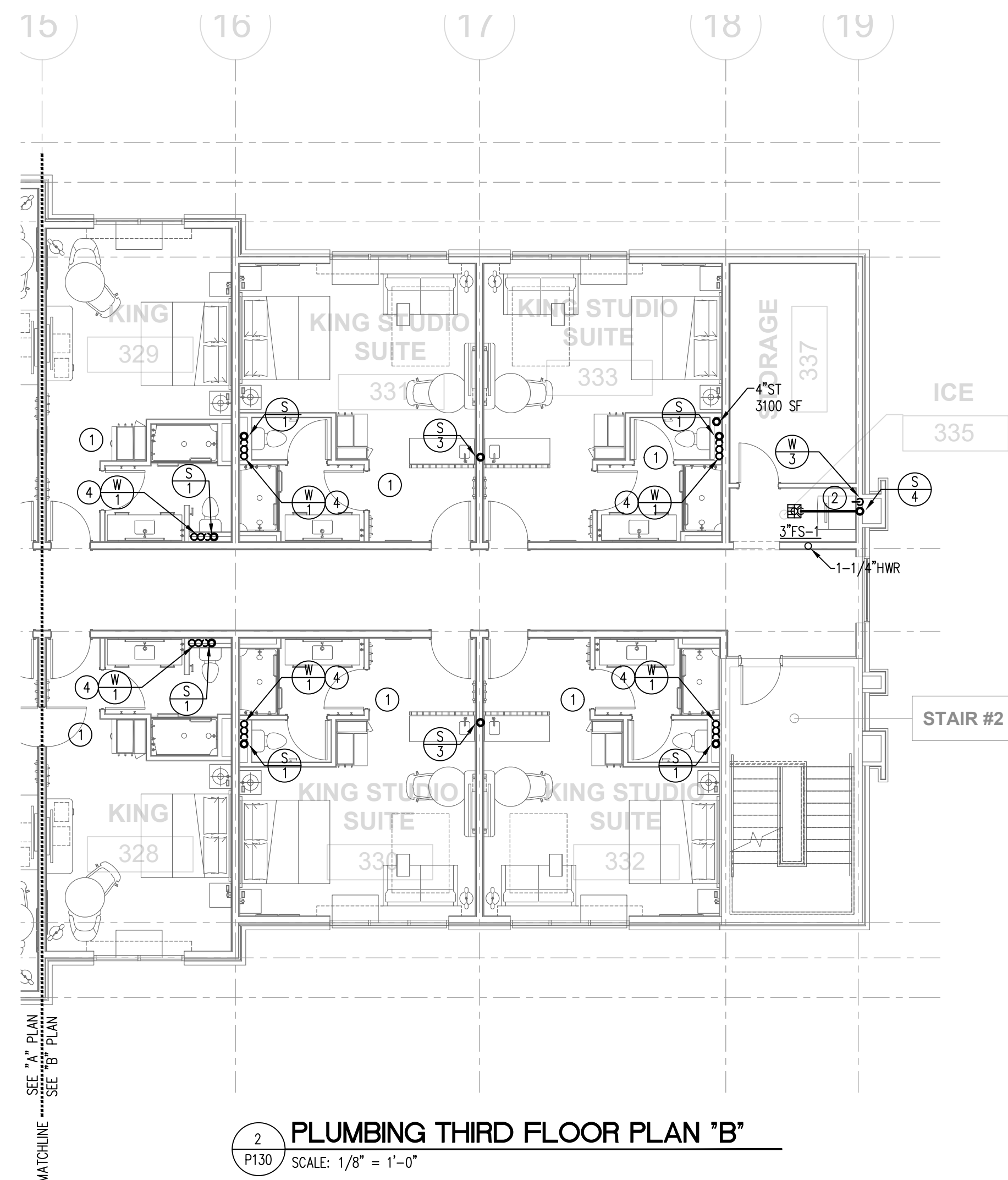


2 PLUMBING SECOND FLOOR PLAN "B"
P120 SCALE: 1/8" = 1'-0"

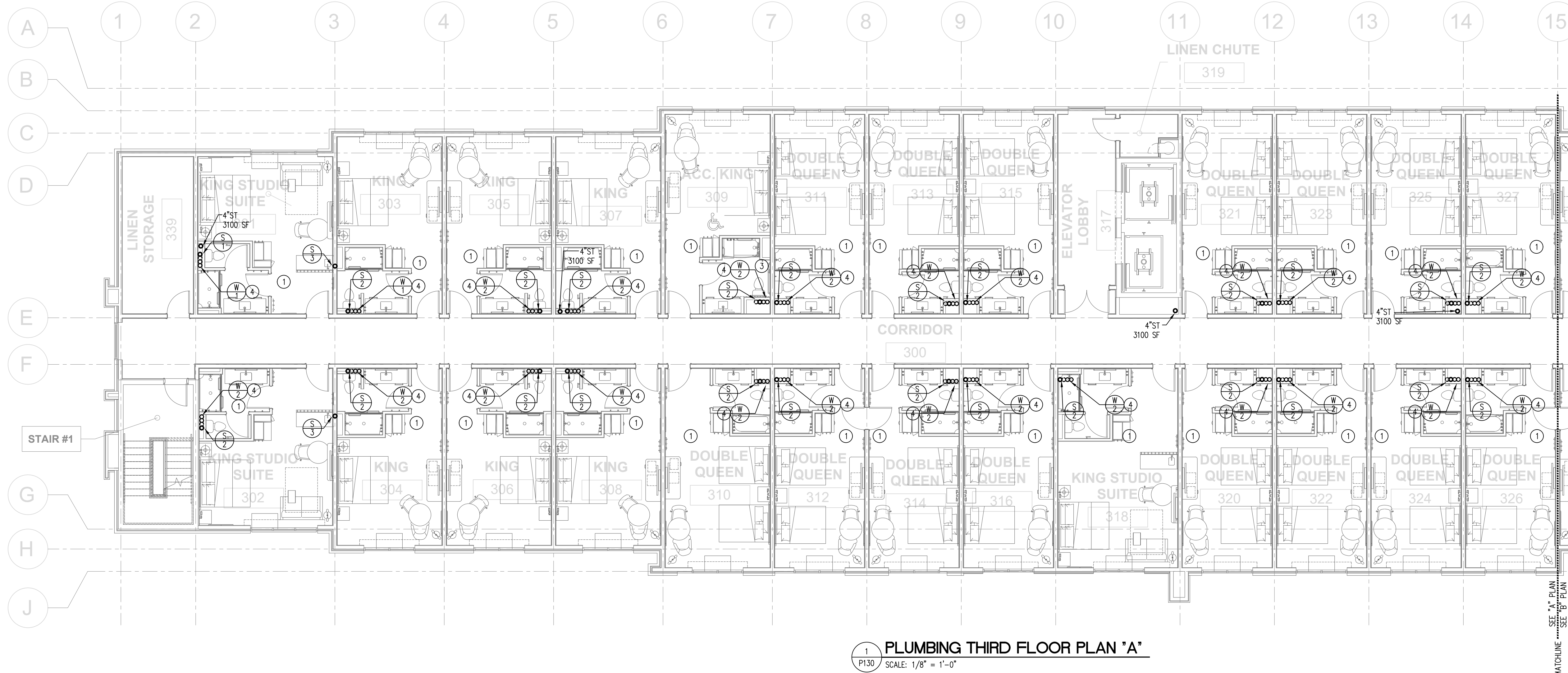


1 PLUMBING SECOND FLOOR PLAN "A"
P120 SCALE: 1/8" = 1'-0"

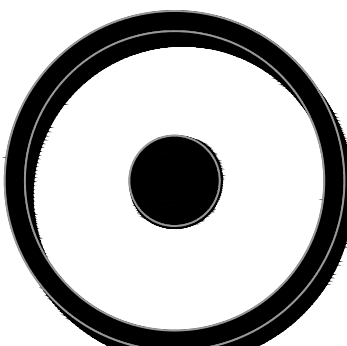
- KEYED NOTES THIS SHEET
- 1 REFER TO GUEST ROOM PLANS ON P210 FOR PIPING IN GUESTROOMS.
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2 PLUMBING THIRD FLOOR PLAN "B"
P130 SCALE: 1/8" = 1'-0"



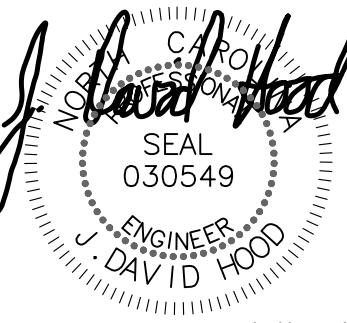
1 PLUMBING THIRD FLOOR PLAN "A"
P130 SCALE: 1/8" = 1'-0"



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J. David Hood
SEAL
030549
ENGINEER
J. DAV ID HOOD
09-11-26

FOR CONSTRUCTION

HAMPTON INN & SUITES by HILTON

OLD WATERFORD WAY
LELAND, NC 28451

issue date:

ISSUE	NAME	DATE
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revisions:

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2	09/14/2026	Site Layouts Coord.
3	09/11/2026	Coordination

drawn by: JDH

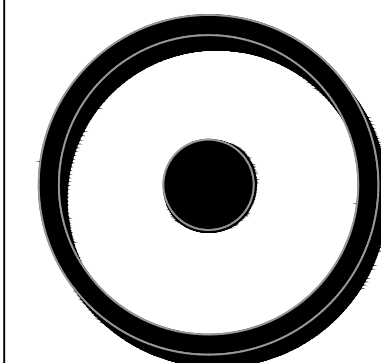
checked by: CED

project no: 25-104

PLUMBING THIRD FLOOR PLAN

P130

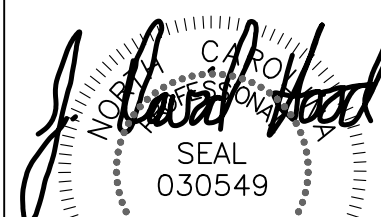
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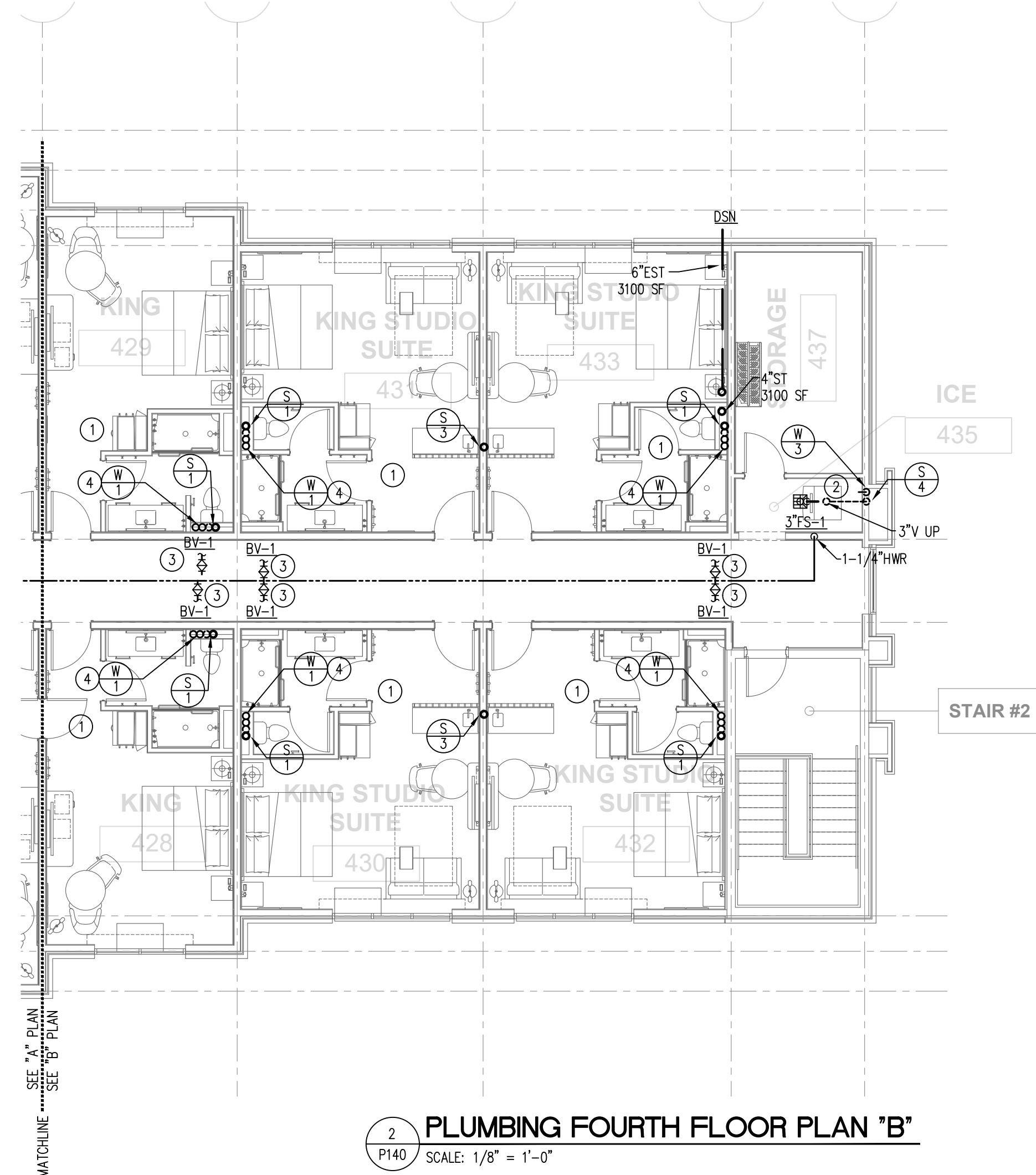
project no:

25-104

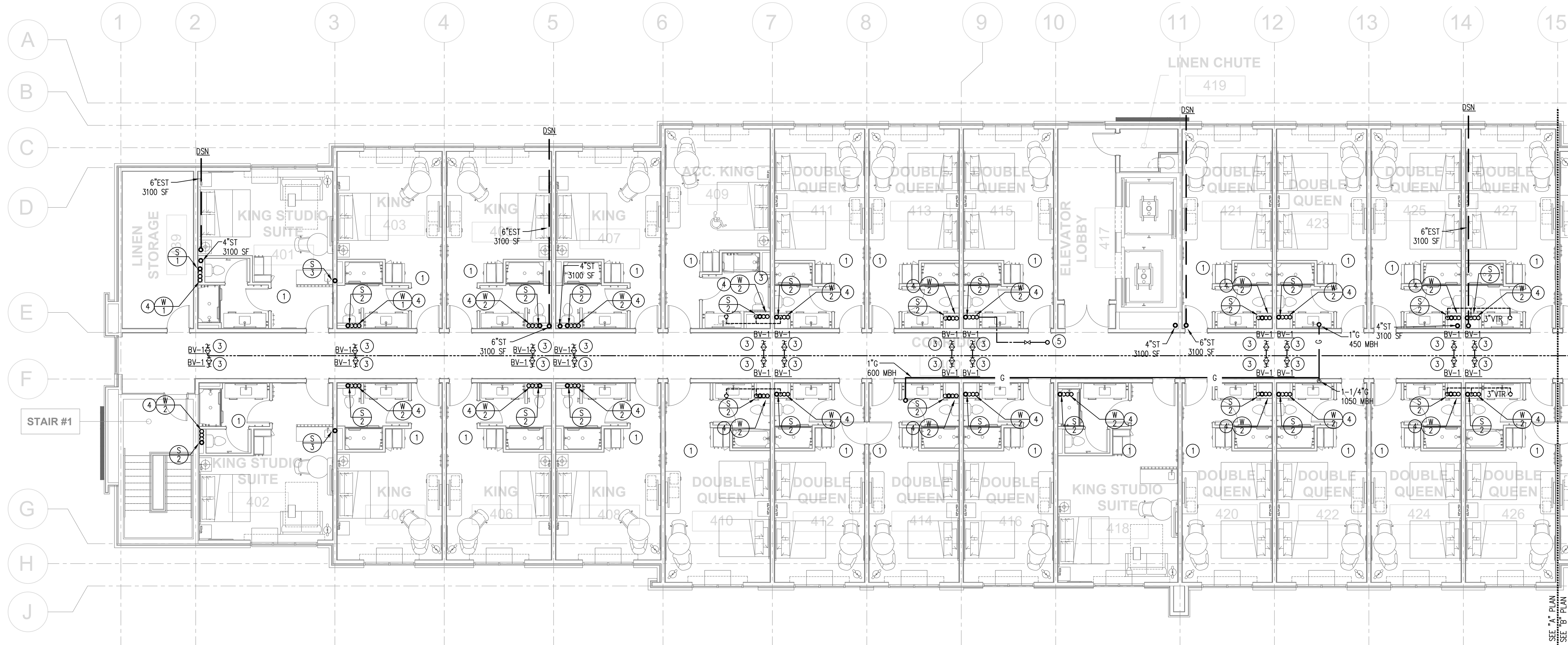
PLUMBING FOURTH FLOOR PLAN

P140

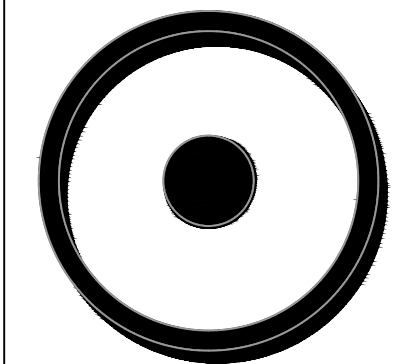
- KEYED NOTES THIS SHEET**
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2 PLUMBING FOURTH FLOOR PLAN "B"
P140 SCALE: 1/8" = 1'-0"



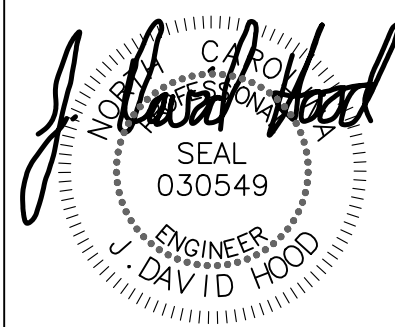
1 PLUMBING FOURTH FLOOR PLAN "A"
P140 SCALE: 1/8" = 1'-0"



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checked by:
CED
project no:
25-104

PLUMBING ROOF
PLAN

P150

NOTE:
STORM DRAINAGE IS SIZED
BASED ON A PRIMARY
RAINFALL RATE OF
4.25"/HR AND A
SECONDARY RAINFALL
RATE OF 7.4"/HR.

STORM DRAINAGE CALCULATION FOR UPPER ROOF
AREA = 14642 SF
VERT AREA = 813 SF
TOTAL = 15,455 SF
5 DRAINS
AREA PER DRAIN = 15455/5 = 3090 SF
ROUND UP TO 3100 SF FOR SIMPLICITY
SEE SHEET P120 FOR LOWER ROOF AREAS

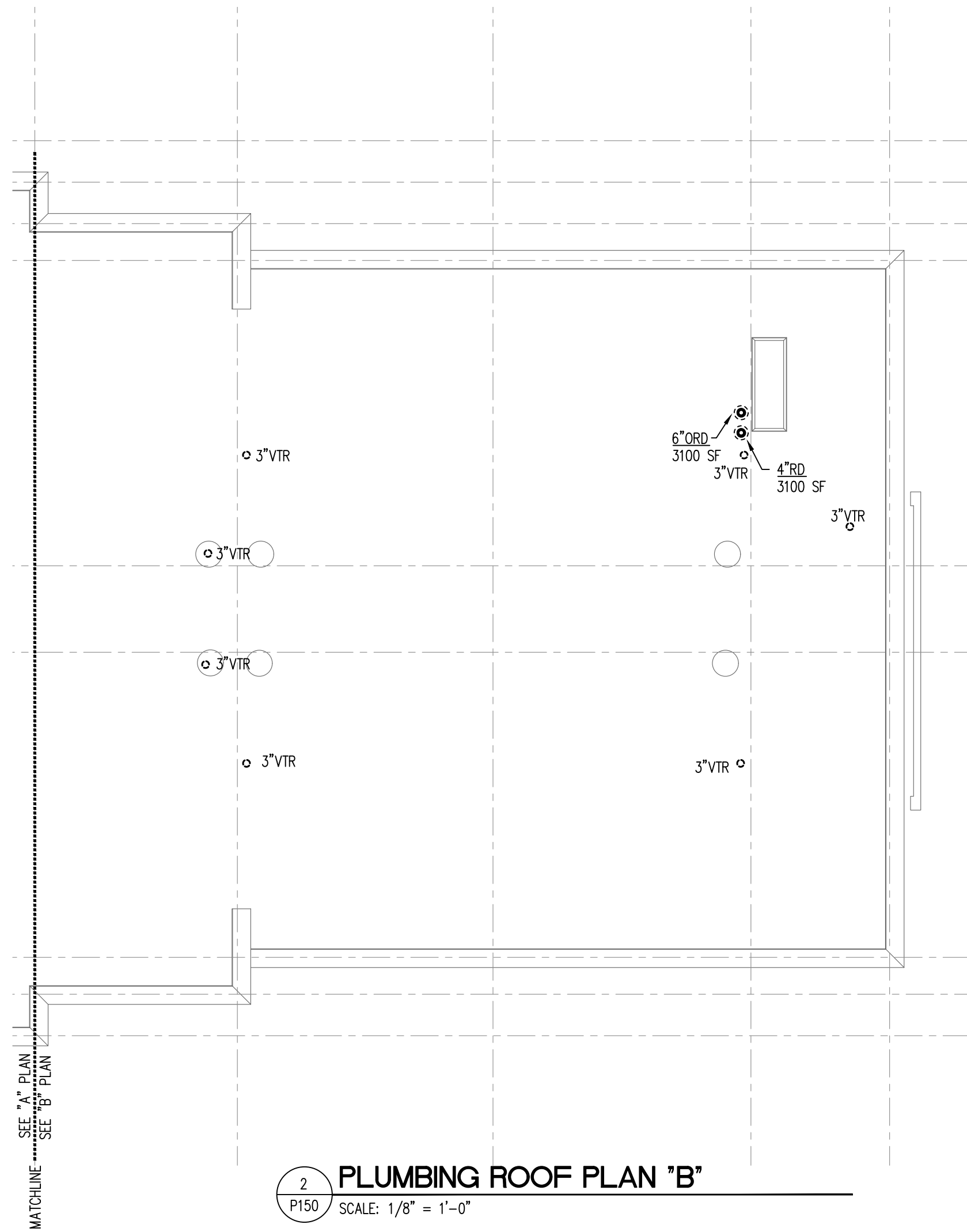
Table 1106.2 FOR 4.25" RAINFALL RATE Size of Vertical Conductors and Leaders	
Size of Leader or Conductor (In.)	Max. Projected Roof Area SQ. FT
2	678
3	2,071
4	4,329
5	8,141
6	12,706
8	27,294

Table 1106.2 FOR 7.4"/HR RAINFALL RATE Size of Vertical Conductors and Leaders	
Size of Leader or Conductor (In.)	Max. Projected Roof Area SQ. FT
2	389
3	1,189
4	2,486
5	4,676
6	7,297
8	15,676

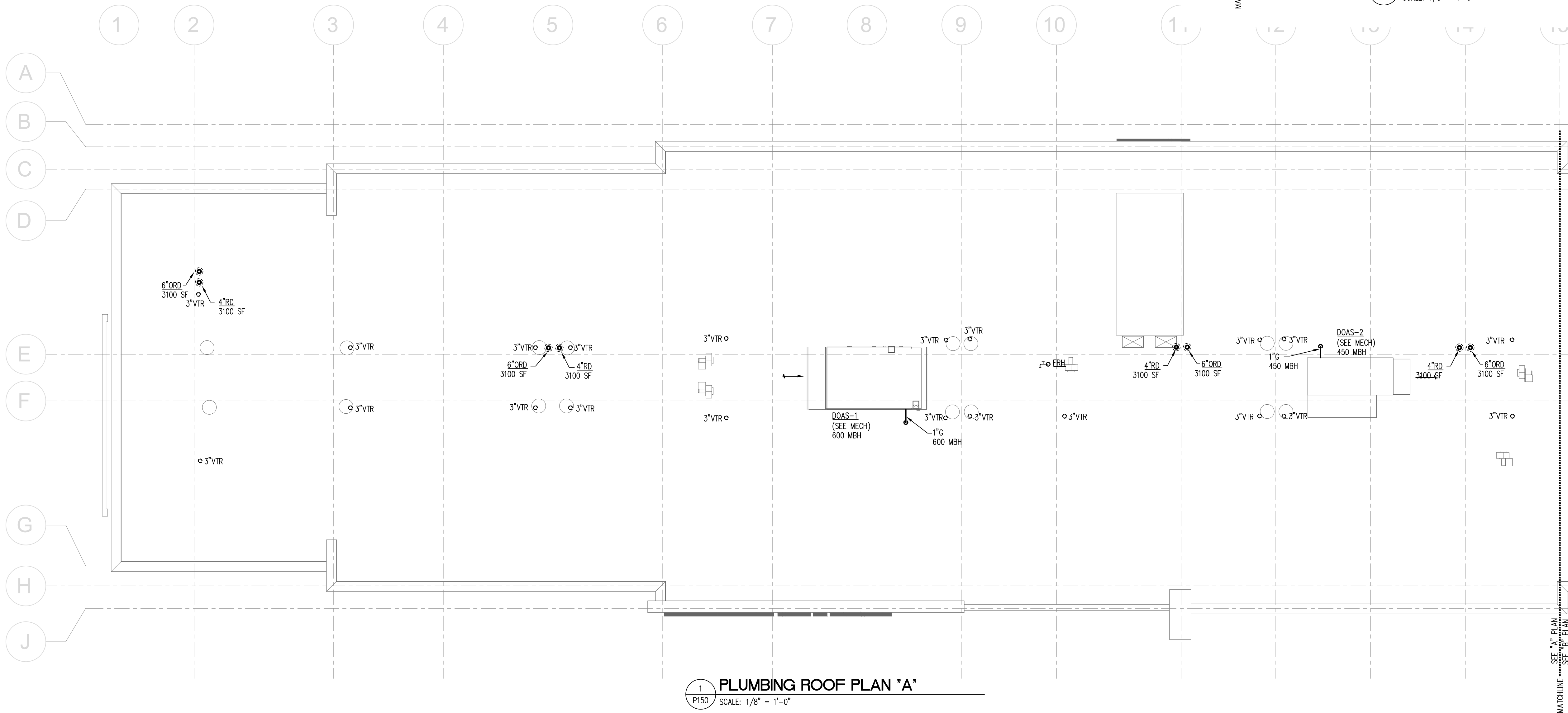
Table 1106.3 FOR 4.25" RAINFALL RATE Size of Horizontal Storm Drains			
Diameter of Drain (In.)	Maximum Projected Roof Area for Drains of Various Slopes (sq. ft)		
	1/8 In Slope SQ. FT	1/4 In Slope SQ. FT	1/2 In Slope SQ. FT
3	774	1,092	1,547
4	1,769	2,494	3,539
5	3,144	4,442	6,287
6	5,035	7,106	10,071
8	10,824	15,341	21,647
10	19,482	27,482	40,376
12	31,341	44,424	62,682
15	56,000	79,059	112,000

Table 1106.3 FOR 7.4" RAINFALL RATE Size of Horizontal Storm Drains			
Diameter of Drain (In.)	Maximum Projected Roof Area for Drains of Various Slopes (sq. ft)		
	1/8 In Slope SQ. FT	1/4 In Slope SQ. FT	1/2 In Slope SQ. FT
3	444	627	889
4	1,016	1,432	2,032
5	1,805	2,551	3,611
6	2,892	4,081	5,784
8	6,216	8,811	12,432
10	11,189	15,784	23,189
12	18,000	25,514	36,000
15	32,162	45,405	64,324

3 STORM SIZING TABLES
P150 NOT TO SCALE



2 PLUMBING ROOF PLAN "B"
P150 SCALE: 1/8" = 1'-0"



1 PLUMBING ROOF PLAN "A"
P150 SCALE: 1/8" = 1'-0"

ALL WATER PIPING SHOWN ON THIS SHEET SHALL BE RUN ABOVE CEILINGS IN AREAS WITH CEILINGS AND SHALL BE RUN AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS, UNLESS OTHERWISE NOTED.

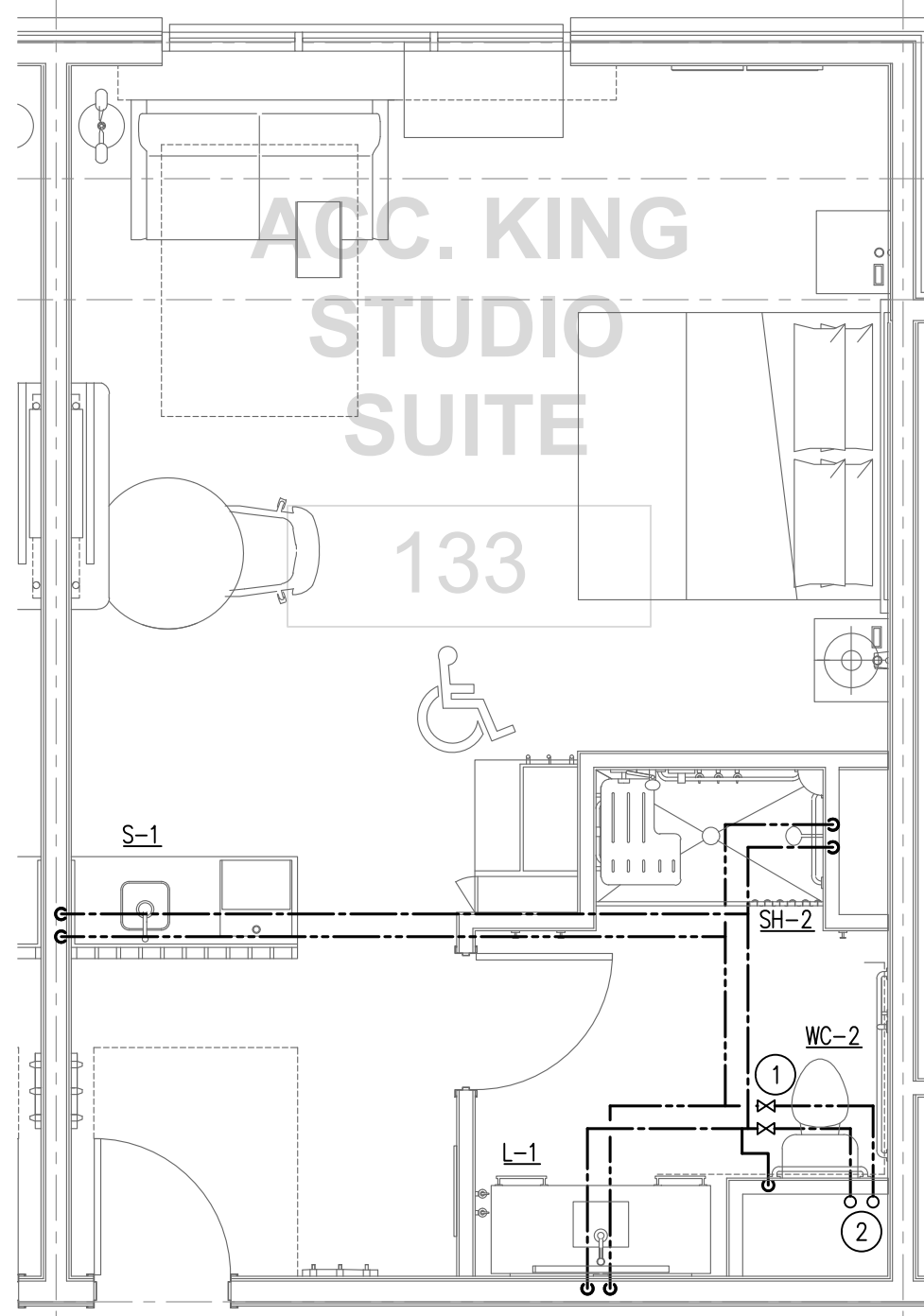
ALL WATER PIPING SHOWN ON THIS SHEET IS 1/2" UNLESS OTHERWISE NOTED ON THIS SHEET OR RISER DIAGRAMS.

GUEST ROOM PIPING LAYOUTS ARE TYPICAL FOR EACH TYPE OF GUEST ROOM INDICATED. SEE FLOOR PLANS FOR ROOM LOCATIONS AND ADDITIONAL INFORMATION.

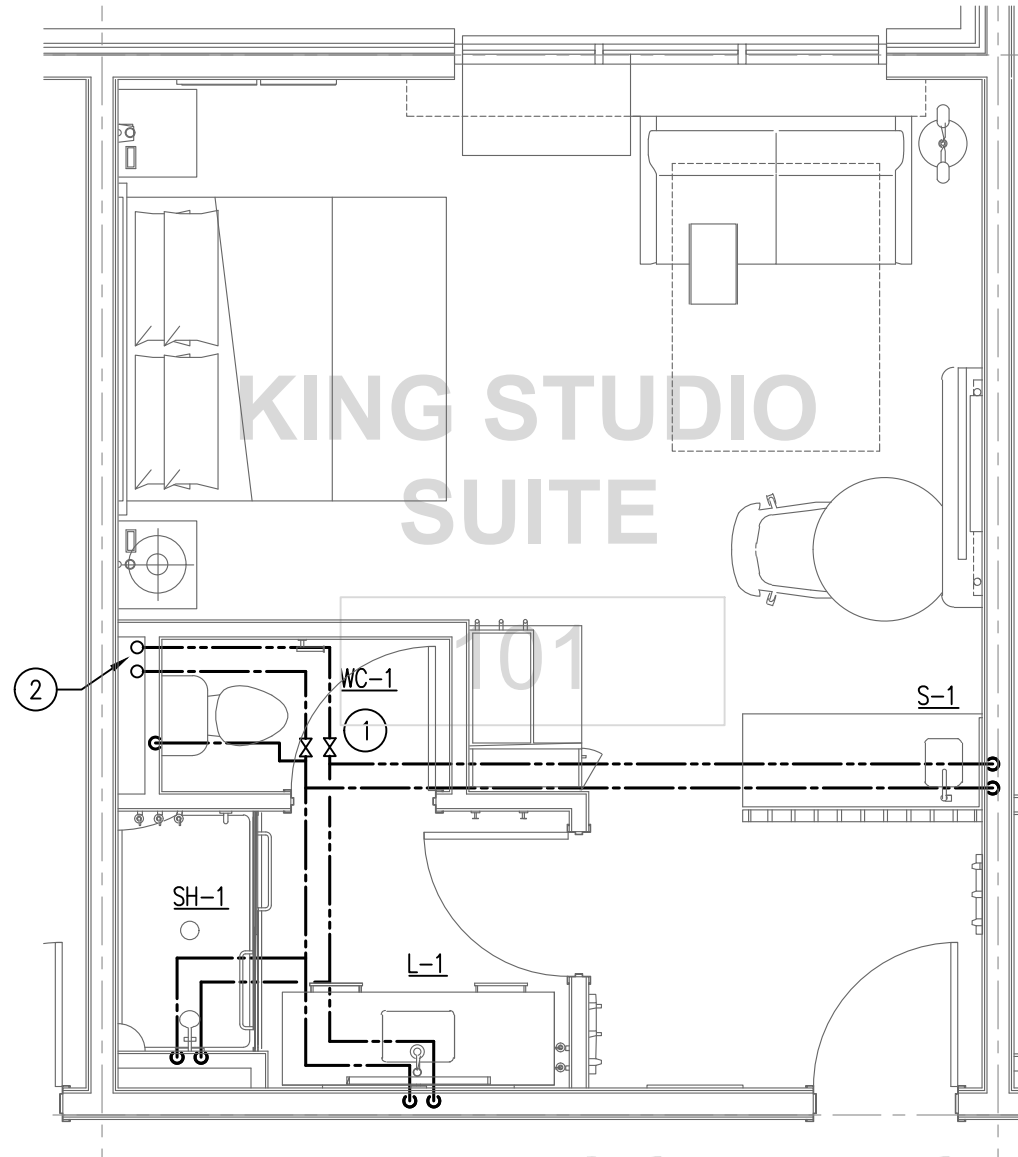
SEE FIXTURE SCHEDULE ON SHEET P020 FOR SIZES OF WATER SUPPLY CONNECTIONS TO INDIVIDUAL FIXTURES.

KEYED NOTES THIS SHEET

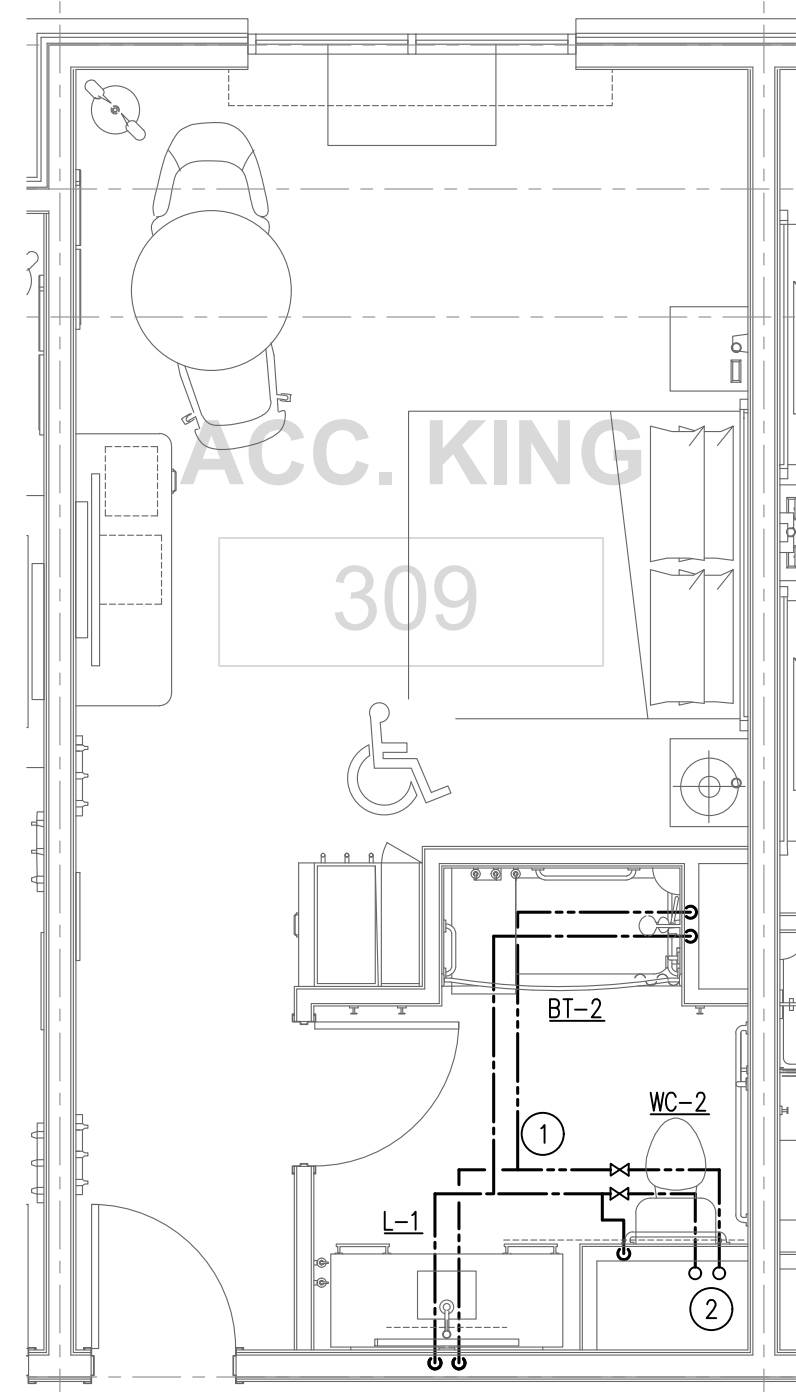
- 1 PROVIDE SHUT-OFF FOR GUESTROOM WITH ACCESS PANEL. COORDINATE EXACT ACCESS PANEL LOCATION WITH OWNER.
- 2 WATER RISER LOCATION, SEE FLOOR PLANS AND RISER DIAGRAMS ON SHEET P310 FOR MORE INFORMATION.



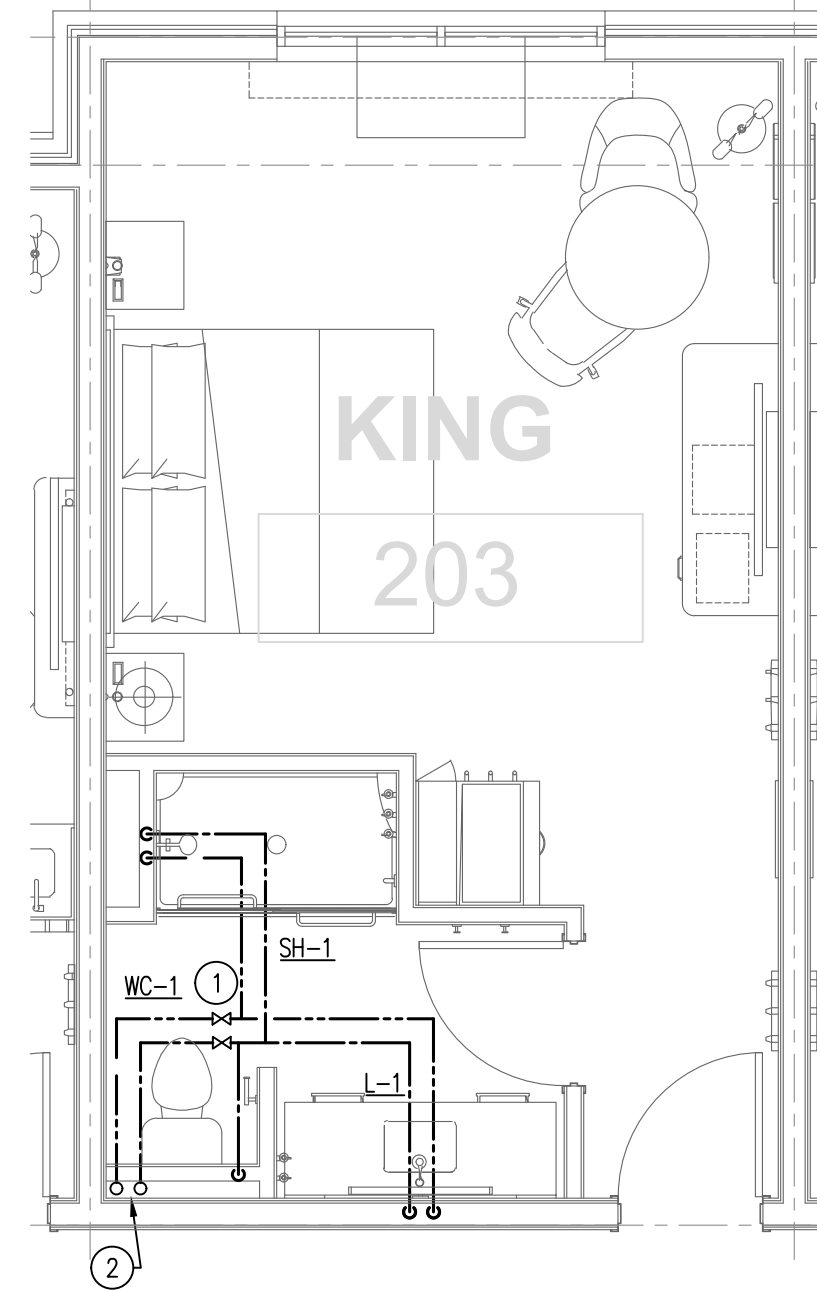
7 WATER SUPPLY ACCESSIBLE KING STUDIO SUITE
P210 SCALE: 1/4" = 1'-0"



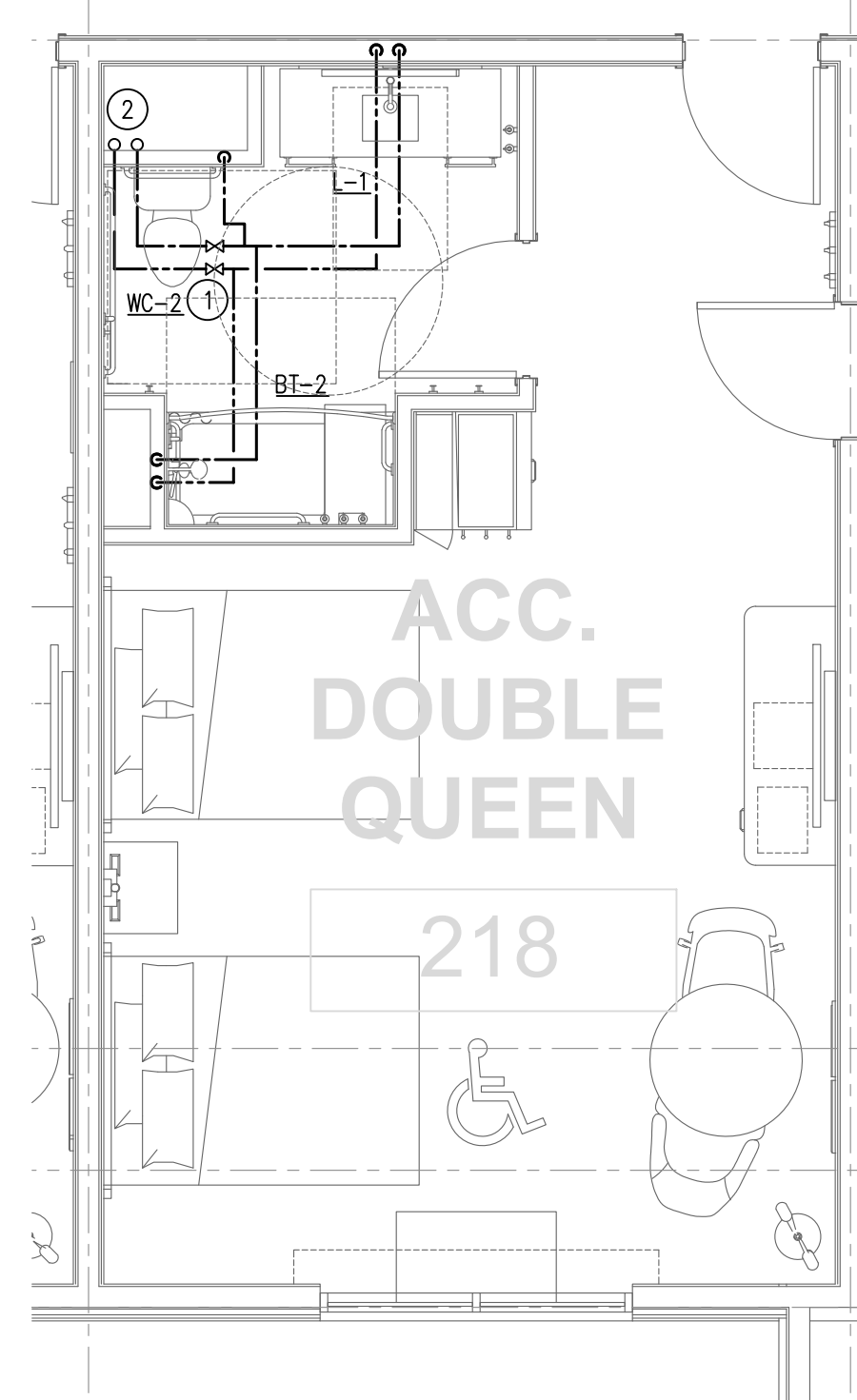
8 WATER SUPPLY KING STUDIO SUITE
P210 SCALE: 1/4" = 1'-0"



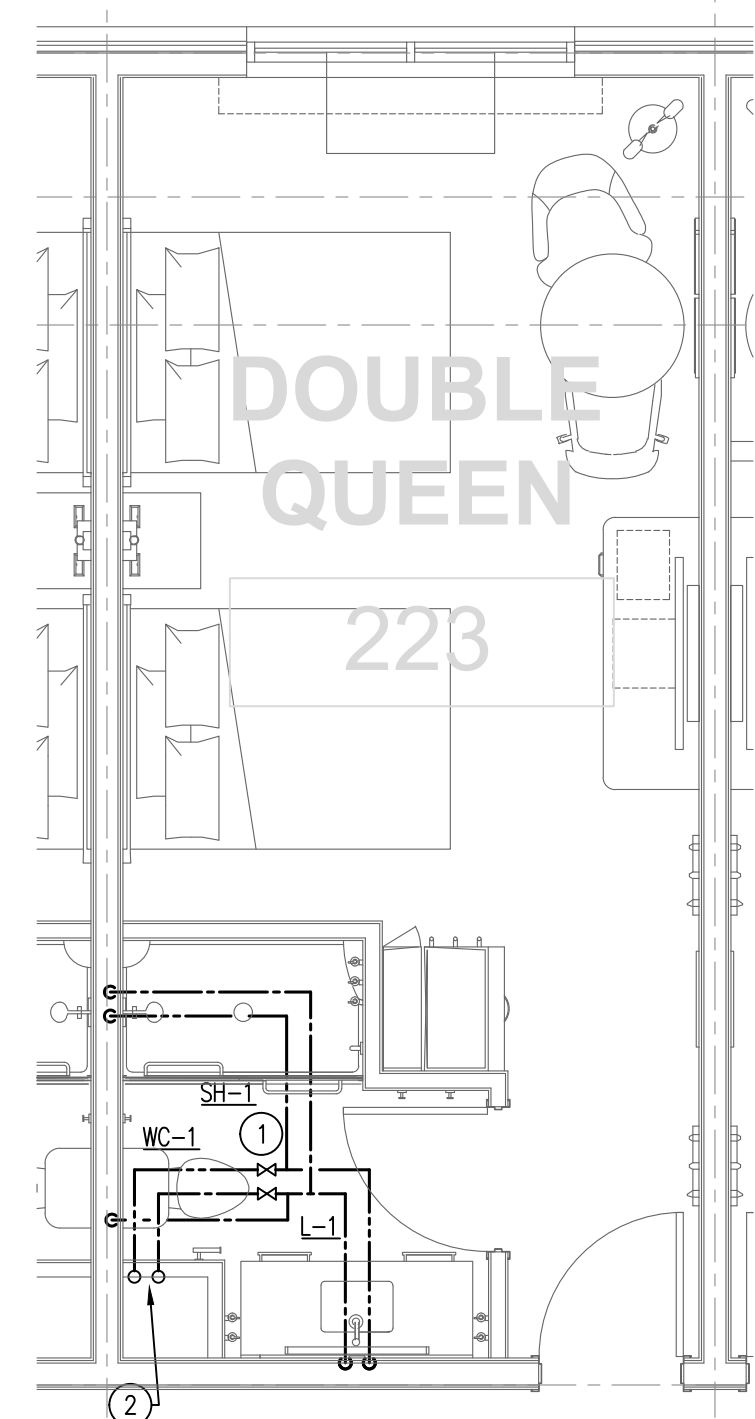
9 WATER SUPPLY ACCESSIBLE KING
P210 SCALE: 1/4" = 1'-0"



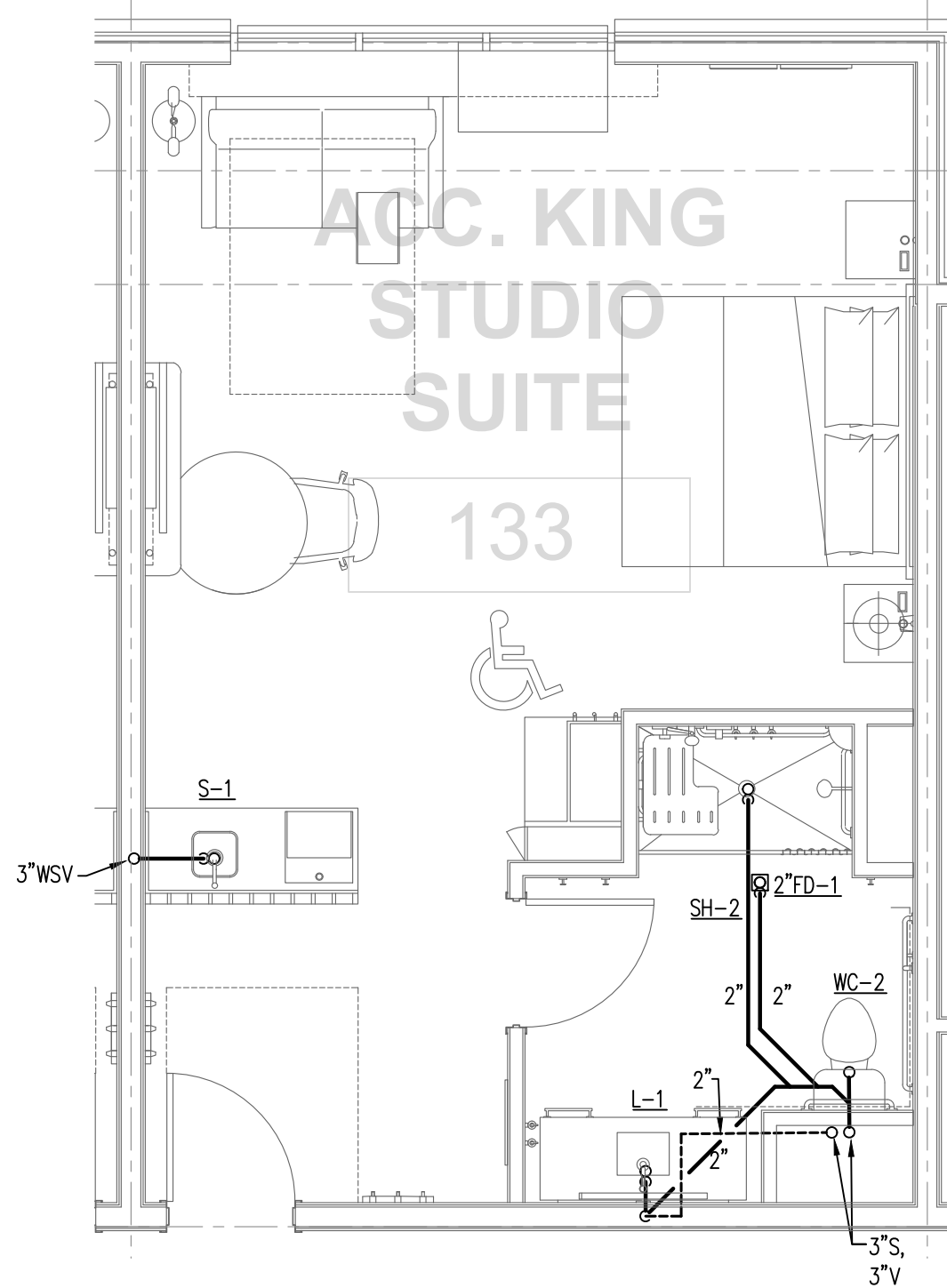
10 WATER SUPPLY KING
P210 SCALE: 1/4" = 1'-0"



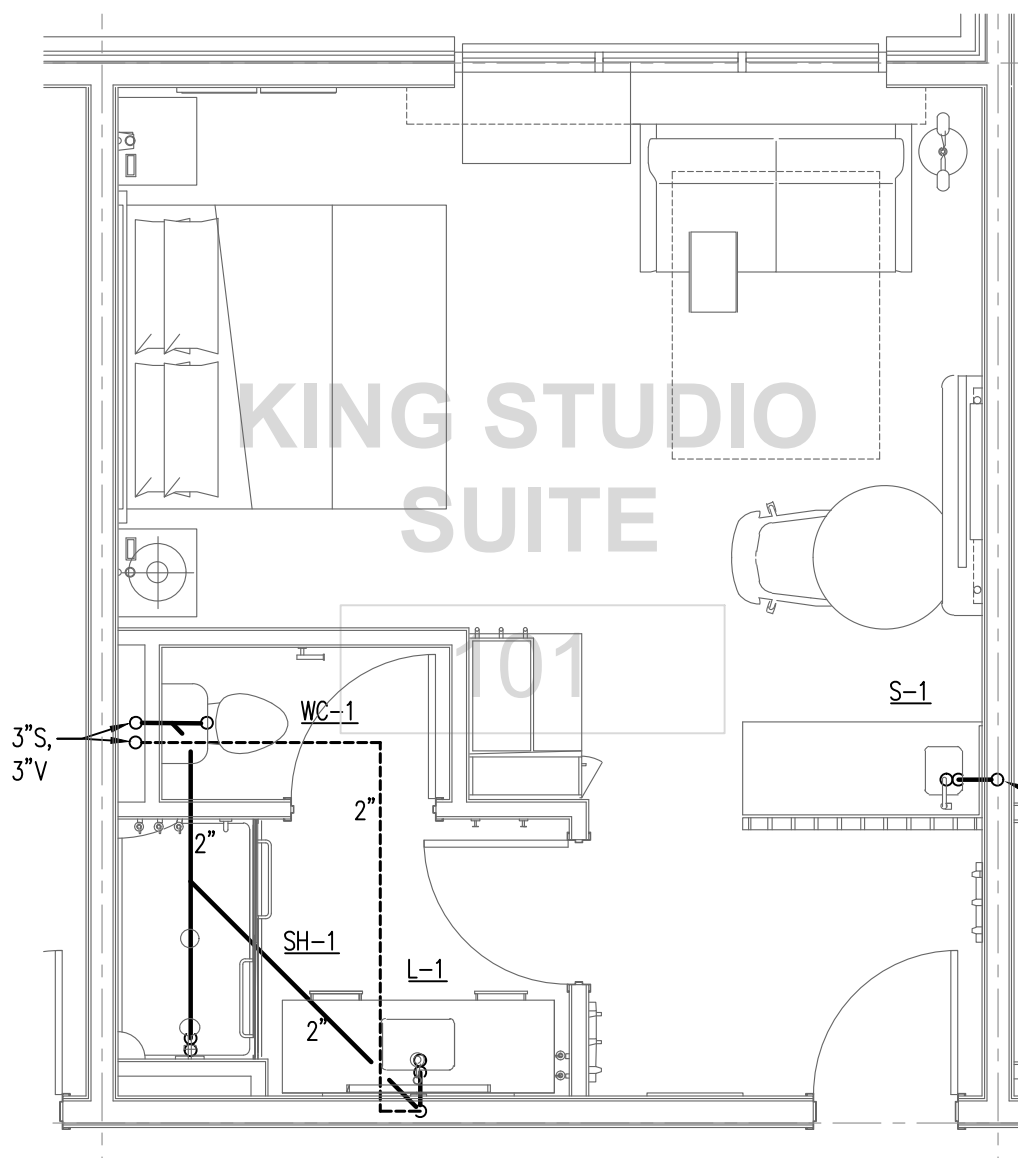
11 WATER SUPPLY ACCESSIBLE DOUBLE QUEEN
P210 SCALE: 1/4" = 1'-0"



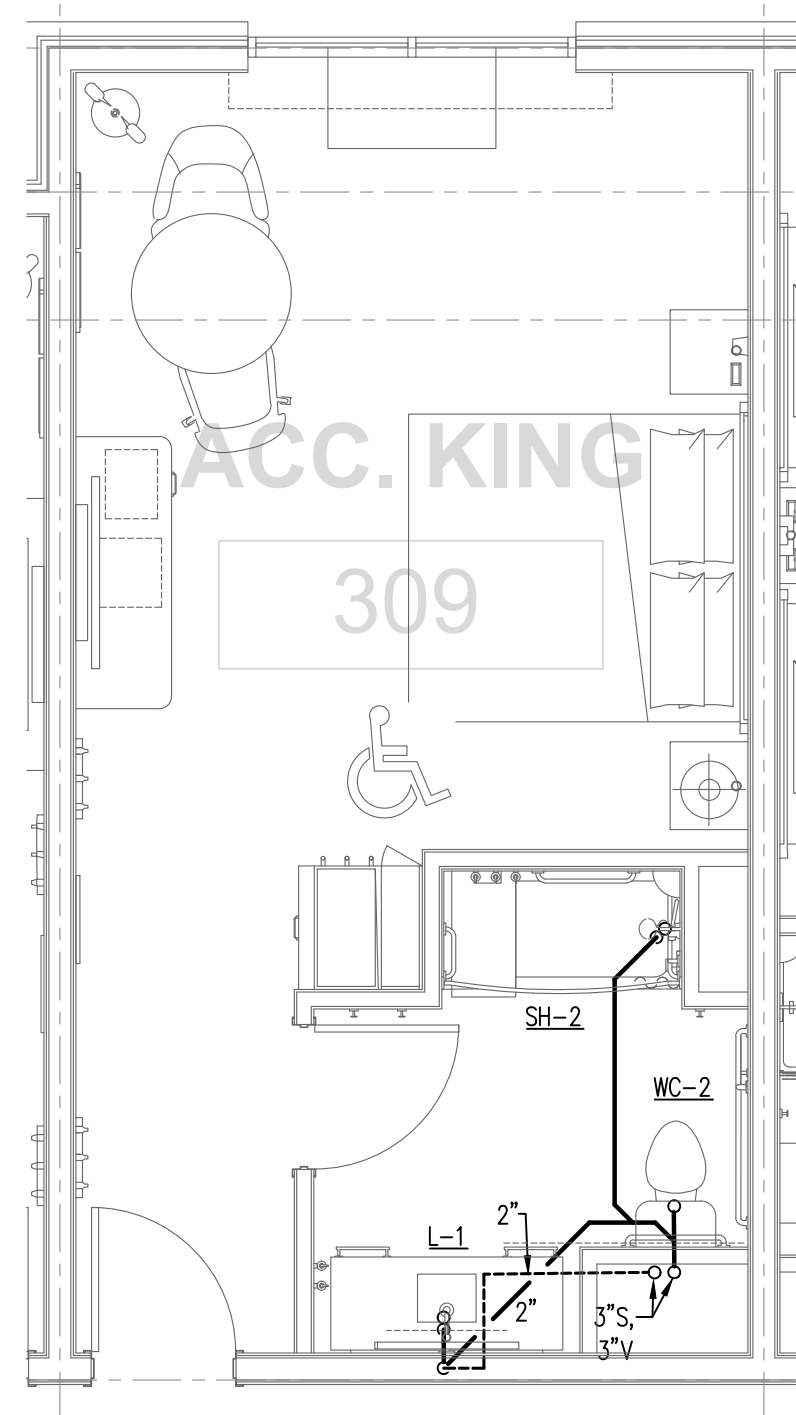
12 WATER SUPPLY DOUBLE QUEEN
P210 SCALE: 1/4" = 1'-0"



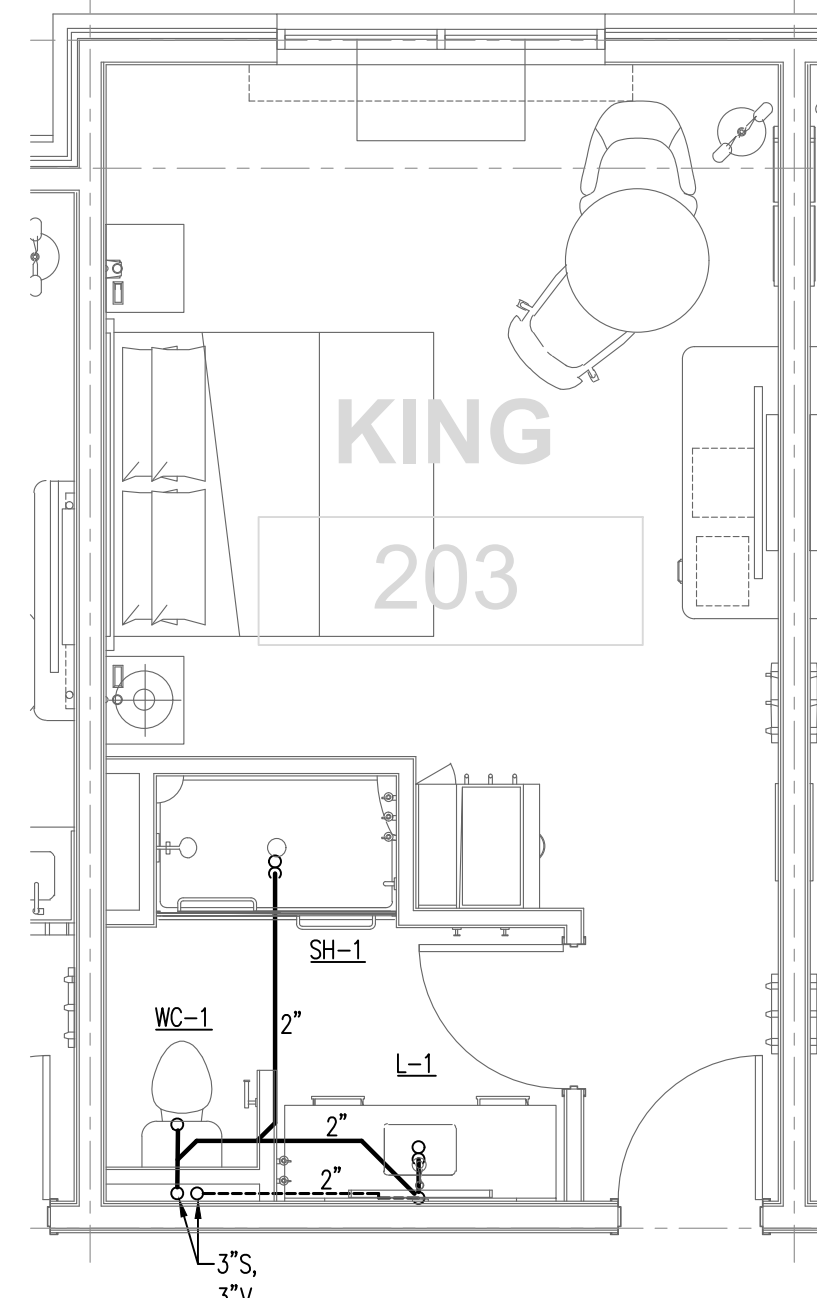
1 WASTE AND VENT ACCESSIBLE KING STUDIO SUITE
P210 SCALE: 1/4" = 1'-0"



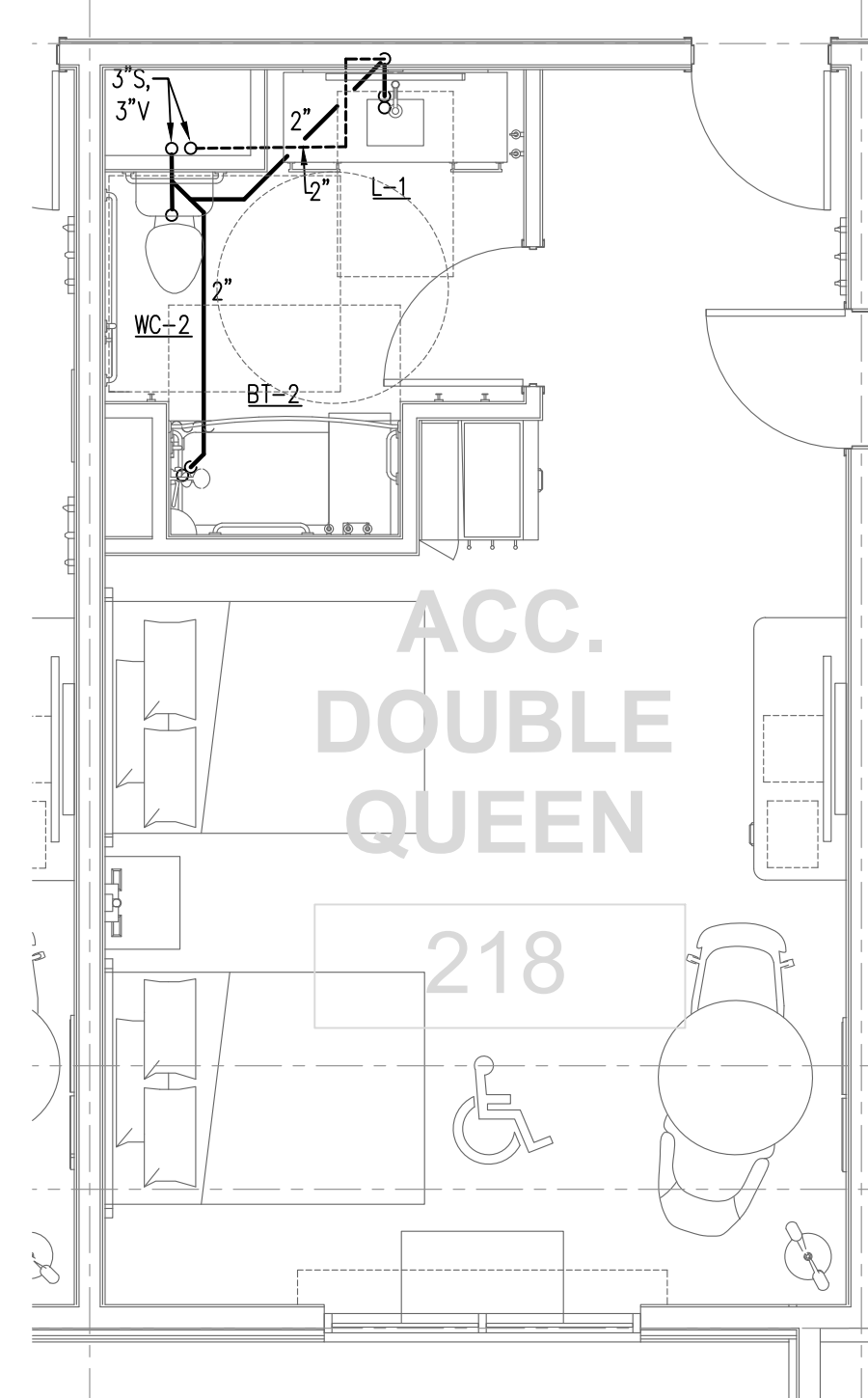
2 WASTE AND VENT KING STUDIO SUITE
P210 SCALE: 1/4" = 1'-0"



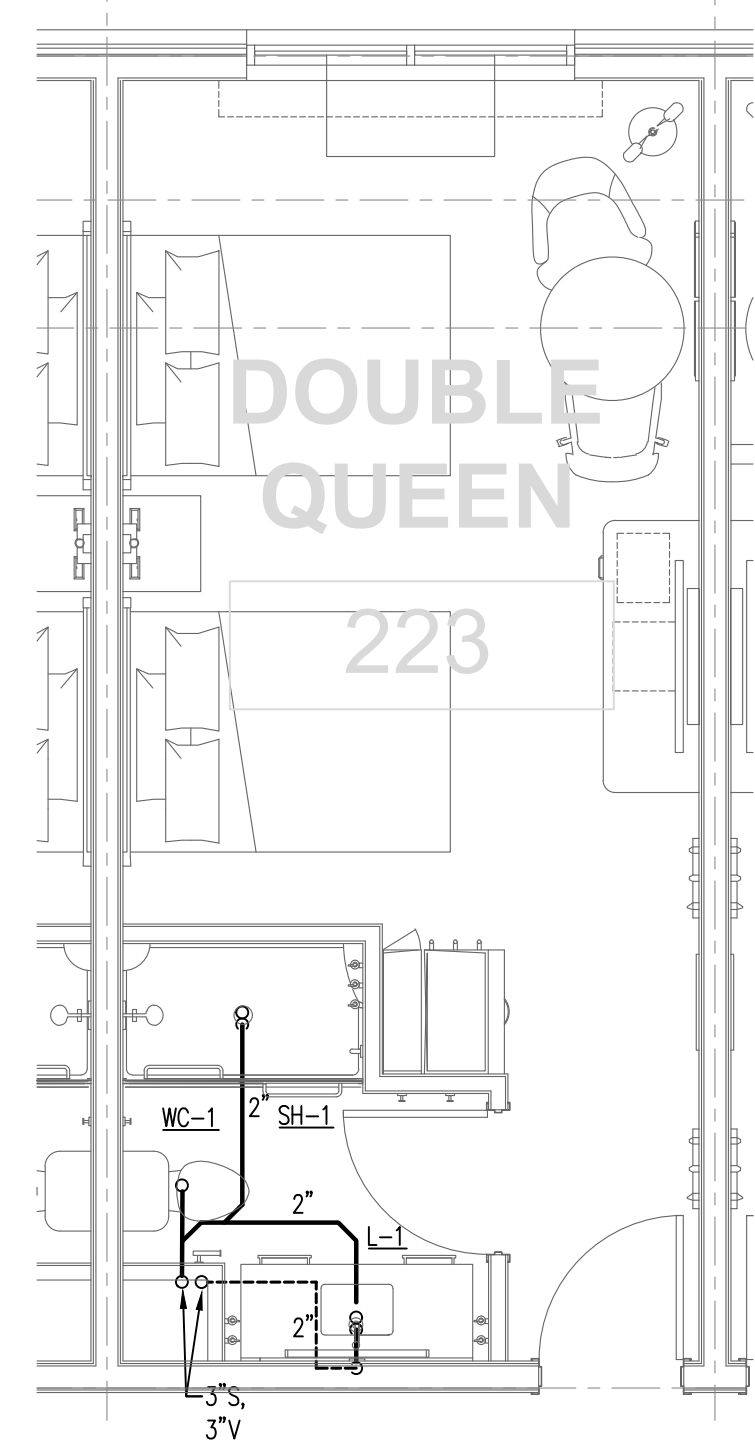
3 WASTE AND VENT ACCESSIBLE KING
P210 SCALE: 1/4" = 1'-0"



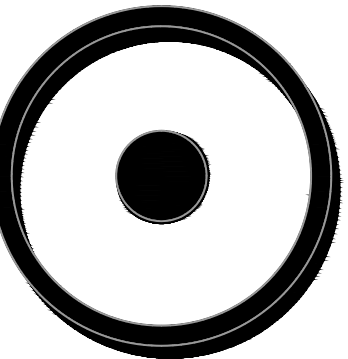
4 WASTE AND VENT KING
P210 SCALE: 1/4" = 1'-0"



5 WASTE AND VENT ACCESSIBLE DOUBLE QUEEN
P210 SCALE: 1/4" = 1'-0"



6 WASTE AND VENT DOUBLE QUEEN
P210 SCALE: 1/4" = 1'-0"

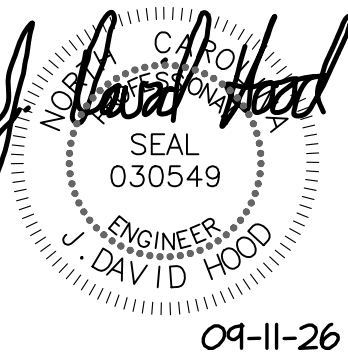


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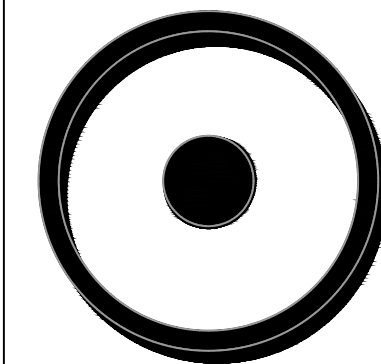
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drawn by:
JDH
checked by:
CED
project no:
25-104

PLUMBING
GUESTROOM PLANS

P210

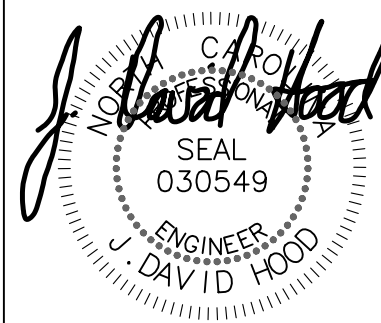


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PLUMBING RISER
DIAGRAMS

P310

