

PLUMBING SPECIFICATIONS

- 1501 GENERAL
- CODES, REGULATIONS AND STANDARD INSTALLATIONS ARE TO COMPLY WITH THE LATEST EDITION OF THE NORTH CAROLINA BUILDING AND PLUMBING CODES AND ALL OTHER APPLICABLE LOCAL AND NATIONAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE CODE AND THE DRAWINGS AND SPECIFICATIONS OR BETWEEN VARIOUS CODES, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENCE.
 - FEES AND PERMITS: PERMITS, FEES, PERMITS, HEALTH DEPARTMENT FEES, INSURANCE, ETC., REQUIRED FOR EXECUTION OF THIS WORK.
 - THE CONTRACT DRAWINGS ARE SCHEMATIC ONLY AND ARE NOT INTENDED TO SHOW ALL FITTINGS, BOLTS, CONNECTIONS, OFFSETS, ETC., UNLESS SPECIFICALLY DIMENSIONED. THE PLUMBING CONTRACTOR SHALL FOLLOW THE DRAWING AS CLOSELY AS POSSIBLE; HOWEVER, NECESSARY ADJUSTMENTS SHALL BE MADE AS REQUIRED TO CONFORM TO STRUCTURAL CONDITIONS, WORK OF OTHER CONTRACTORS AND THE INTENT OF THE DRAWINGS WITHOUT ADDITIONAL COST TO THE OWNER. THE DRAWINGS SHALL NOT BE SCALED. SECURE DIMENSIONS FROM ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS.
 - THE PLUMBING CONTRACTOR SHALL PROVIDE ALL MATERIALS, PERFORM ALL WORK AND TEST AND PAY ALL FEES NECESSARY TO MAKE THE PLUMBING SYSTEM OPERABLE AND READY FOR USE BY THE OWNER.
 - GUARANTEE: ALL NEW EQUIPMENT, NEW MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD GUARANTEE, IF LONGER.
 - PLUMBING CONTRACTORS SHALL BE RESPONSIBLE FOR HIS OWN CLEAN UP AND REMOVAL OF SCRAP FROM JOB SITE. PLUMBING CONTRACTOR SHALL MAINTAIN A CLEAN AND SAFE WORK AREA.
 - IN CASE OF ANY CONFLICT BETWEEN INFORMATION FOUND IN THE PLANS, OR IN THE SPECIFICATIONS, THE MOST RESTRICTIVE INTERPRETATION SHALL TAKE PRECEDENCE.
 - THE PLUMBING DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE DESIGN FOR ROOF GUTTER SYSTEMS OR ROOF DRAIN SYSTEMS.
 - ALL PLUMBING COMPONENTS SHALL BE INSTALLED, SUPPORTED, AND RESTRAINED IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE REQUIREMENTS FOR SEISMIC DESIGN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETAIN A PROFESSIONAL ENGINEER COMPETENT IN THIS FIELD FOR THIS DESIGN. FOR ONE POSSIBLE SOURCE FOR THIS SERVICE CONTACT SEISMIC CONTROL AND ISOLATIONS, INC. PHONE: 910-799-5204. ALL REQUIRED INSPECTIONS FOR THESE DESIGNS SHALL BE PERFORMED BY APPROVED INSPECTORS AND AGENCIES PROVIDED BY OWNER OR OWNER'S AGENT.
 - ALL ROOF MOUNTED MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE INSTALLED, SUPPORTED, AND RESTRAINED IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE REQUIREMENTS FOR WIND DESIGN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETAIN A PROFESSIONAL ENGINEER COMPETENT IN THIS FIELD FOR THIS DESIGN. FOR ONE POSSIBLE SOURCE FOR THIS SERVICE CONTACT SEISMIC CONTROL AND ISOLATIONS, INC. PHONE: 910-799-5204. ALL REQUIRED INSPECTIONS FOR THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED INSPECTORS AND AGENCIES HIRED BY THE OWNER OR OWNER'S AGENT AS REQUIRED BY THE BUILDING CODE.
 - THE ENGINEER IS NOT RESPONSIBLE FOR JOB SITE SAFETY.

1502 SCOPE

- WORK SHALL INCLUDE BUT IS NOT LIMITED TO:
- PROVIDE FIXTURES AND INSTALL AND CONNECT WASTE AND WATER PIPE AS SHOWN ON DRAWINGS.
 - ROUTE WASTE AND WATER TO THE EXTERIOR WITH 5'-0" OUTSIDE BUILDING.
 - CHLORINATE WATER SYSTEM.
 - PROVIDE ELEVATOR SUMP PUMP, FORCE MAIN, AND OIL/WATER SEPARATOR.

1503 MATERIALS

A. HANGERS:

- SPACING FOR COPPER PIPE SHALL BE AS FOLLOWS:
 - 1" & SMALLER 6'-0" O.C.
 - 1-1/4" & 1-1/2" 8'-0" O.C.
 - 3" & LARGER 10'-0" O.C.
 - SPACING FOR CARBON STEEL AND CAST IRON PIPE SHALL BE AS FOLLOWS:
 - 1" & SMALLER 7'-0" O.C.
 - 1-1/2" & 2" 10'-0" O.C.
 - 2-1/2" & 3" 12'-0" O.C.
 - SPACING FOR PVC PIPE SHALL BE AS FOLLOWS:
 - 1-1/2" & SMALLER 2'-0" O.C.
 - 2" 3'-0" O.C.
 - 2" TO 4" 5'-0" O.C.
 - SPACING FOR CPVC PIPE SHALL BE AS FOLLOWS:
 - 1" & SMALLER 3'-0" O.C.
 - 1-1/4" TO 2" 4'-0" O.C.
 - HANGER FOR HORIZONTAL PIPING SHALL BE THE CLEVIS TYPE.
 - HANGERS FOR BARE COPPER PIPING SHALL BE COPPER PLATED.
 - HANGER FOR INSULATED PIPING SHALL EXTEND AROUND THE INSULATION. PROVIDE 16 GAUGE GALVANIZED STEEL INSULATION PROTECTION SADDLES 12" LONG AT EACH HANGER ON ALL INSULATED LINES AND HARD INSULATION INSERTS AT SADDLES.
 - A HANGER SHALL BE FASTENED BY MEANS OF THREADED RODS TO BUILDING STRUCTURE. ALL HANGERS SHALL PERMIT ADEQUATE ADJUSTMENT AFTER ERECTION WHILE STILL SUPPORTING THE LOAD.
 - A HANGER SHALL BE PROVIDED WITHIN ONE FOOT OF EACH BEND IN HORIZONTAL PIPING.
 - SUPPORT MATERIAL SHALL BE PROPERLY CHOSEN TO AVOID ATMOSPHERIC CORROSION AND TO AVOID GALVANIC CORROSION DUE TO CONTACT OF SUPPORT AND ADJACENT MATERIALS.
- B. HOT AND COLD WATER PIPES BEGINNING 5' FROM BUILDING WALL:
- PIPE SHALL BE TYPE L COPPER TUBING ABOVE GRADE AND TYPE K BELOW GRADE.
 - FITTINGS SHALL BE MADE USING SOLDER AS PER THE N.C. PLUMBING CODE FOR POTABLE WATER.
- C. ACCEPTABLE ALTERNATE:
- HOT AND COLD WATER PIPES BEGINNING 5' FROM BUILDING WALL:
- CPVC IS AN ACCEPTABLE ALTERNATE FOR ALL WATER PIPING. ITEM P UNDER EXECUTION SHALL BE COMPLETELY MET. IN PARTICULAR, THE CONTRACTOR MUST BE CERTIFIED BY THE MANUFACTURER FOR CPVC INSTALLATION.
 - PIPE AND FITTINGS SHALL BE CPVC. FLOWGUARD GOLD OR EQUAL FOR 2" AND BELOW. CORZAN OR EQUAL FOR ABOVE 2".
 - FITTINGS SHALL BE MADE AS PER MANUFACTURER'S INSTRUCTIONS AND AS PER THE N.C. PLUMBING CODE FOR POTABLE WATER.
- D. VENT AND WASTE PIPE - WASTE AND VENT PIPE SHALL BE SCH 40 PVC-DWV AS PER ASTM 2665 D WITH SOLVENT WELD JOINTS EXCEPT AS NOTED BELOW. PVC SHALL NOT BE USED IN A RETURN AIR PLENUM. CAST IRON SHALL BE USED. TRANSITION FROM PVC TO CAST IRON SHALL BE MADE WITH CODE APPROVED TRANSITION FITTINGS DESIGNED EXPRESSLY FOR THAT PURPOSE. ALL FITTINGS SHALL BE SANITARY DRAINAGE PATTERN VALVES.
- WATER GATE VALVES SHALL BE OF BRASS CONSTRUCTION WITH SOLDER JOINT FITTINGS.
 - FORCE MAIN VALVES SHALL BE SOLVENT WELD COPPER BALL OR GATE VALVES.
 - ALL VALVES SHALL BE AS PER PLUMBING CODE.
- F. INSULATION:
- WATER PIPING IN UNCONDITIONED UTILITY ROOM, ATTIC SPACE OR INSTALLED OUTSIDE BUILDING INSULATION SHALL BE INSULATED WITH 2" THICK FIBERGLASS WITH VAPOR BARRIER JACKET. UTILITY ROOM INSULATION SHALL ALSO HAVE A PVC JACKET, STAPLED AND TAPED.
 - EXPOSED HOT AND COLD WATER LINES AND WASTE LINES UNDER HANDICAP LAVATORIES AND SINKS SHALL BE INSULATED WITH FULLY MOLDED, TRUEBERG, HAND-LAV GUARD INSULATION KIT.
 - UNDERGROUND LINES BELOW FROST LINE SHALL NOT BE INSULATED.
 - ALL OTHER WATER PIPING SHALL BE INSULATED AS FOLLOWS:
 - A. COLD WATER PIPING SHALL HAVE 1/2" ARMAFLEX.
 - B. HOT WATER PIPING SHALL HAVE 1" ARMAFLEX ON FIRST 8' OF PIPE FROM WATER HEATER AND 1/2" ARMAFLEX IN ALL OTHER PLACES.
- G. VENTS SHALL PENETRATE ROOF WITH FLEXIBLE BOOTS WITH FLASHING FLANGE.
- H. FORCE MAIN PIPING: FORCE MAIN PIPING SHALL BE SCH 40 PVC PRESSURE PIPE WITH SOLVENT WELD JOINT.

1504 EXECUTION

- ALL HOLES THROUGH WALLS, FLOORS AND CEILINGS ARE TO BE DRILLED, NOT BROKEN. ROUND ALL SHARP EDGES TO DRILLED HOLES.
- LINES ARE NOT TO BE COVERED UNTIL INSPECTED BY THE ARCHITECT.
- WRAP COPPER PIPE WITH DUCT TAPE WHERE IT PENETRATES THE FLOOR.
- DO NOT MAKE A WATER LINE JOINT UNDER THE SLAB.
- A WATER HAMMER ARRESTOR SHALL BE INSTALLED AT FIXTURES THAT HAVE QUICK CLOSING VALVES WHEN METALLIC PIPE IS INSTALLED. WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. WATER HAMMER ARRESTORS SHALL COMPLY WITH ASSE 1010.
- WASTE PIPES PASSING UNDER OR THROUGH FOUNDATIONS OR THROUGH LOAD BEARING SECTIONS OF A WALL SHALL BE ROUTED THROUGH D.I. SLEEVES AT LEAST TWO PIPE SIZES LARGER THAN THE PIPE.
- PROVIDE SUFFICIENT HANGERS, SUPPORTS, CLAMPS, CLIPS, INSERTS AND MAINTAINING DEVICES TO SUPPORT ALL PIPING AS PER GOOD PIPING PRACTICE AND TO MAINTAIN PROPER DRAINAGE.
- INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S INSTRUCTIONS AND PERTINENT RECOMMENDATIONS.
- INSTALL UNDERGROUND PIPE AS PER MANUFACTURER'S INSTRUCTIONS AND PERTINENT RECOMMENDATIONS. TRENCH SHALL BE CLEAR OF ALL ROCKS AND OTHER ABRASIVE MATERIALS. TRENCH BOTTOM SHALL BE COMPACTED AND FULLY SUPPORT PIPE. FILL DIRT TO 6" ABOVE TOP OF PIPE TO BE CLEAN AND FREE OF ABRASIVE MATERIALS. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR PIPE BEDDING GIVEN SOIL CONDITIONS.
- PLUMBING CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO ASSURE THAT ALL PIPE INTERFERENCES (FOUNDATIONS, CABLES, OTHER PIPING, ETC.) ARE AVOIDED BY UNDERGROUND PLUMBING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT PLUMBING WALLS ARE CONSTRUCTED TO ALLOW INSTALLATION OF FIXTURE CARRIERS. PLUMBING CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR PRIOR TO WALL CONSTRUCTION.
- CONTRACTOR SHALL SUPPLY AND INSTALL FIXTURE HANGER AS REQUIRED FOR PROPER INSTALLATION.
- WATER PIPE ROUTING THROUGH STUDS SHALL BE PROTECTED BY METAL STUD GUARDS.
- INSTALL ALL WATER PIPING INSIDE OF BUILDING INSULATION IF POSSIBLE. WATER PIPING INSTALLED IN ATTIC SPACE MUST BE UNDER BATT INSULATION. IF BLOWN INSULATION IS USED IN ATTIC SPACE WATER PIPE SHALL BE INSULATED AS IF IT WERE IN AN UNCONDITIONED SPACE.
- VENT TERMINALS SHALL NOT BE LOCATED WITHIN 10' OF ANY AIR INTAKE OPENING.
- INSTALLATION OF CPVC WATER PIPE SHALL BE STRICTLY AS PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. INSTALLER SHALL HAVE ATTENDED MANUFACTURER'S TRAINING AND BE MANUFACTURER CERTIFIED. ALL PIPE EXPANSION PROVISIONS SHALL BE ADDED TO WATER PIPING LAYOUT AS RECOMMENDED BY MANUFACTURER. (FLOWGUARD AND CORZAN CONTACT: STEVE MANIS, PHONE 305.495.8170.)

1505 ELECTRICAL CONNECTIONS

- ELECTRICAL CONTRACTOR SHALL DIRECT WIRE ALL EQUIPMENT REQUIRING POWER.
- CONTROL WIRING SHALL BE INSTALLED BY THE PLUMBER.

1506 TESTS

- THE HOT AND COLD WATER PIPING SHALL HOLD A HYDROSTATIC TEST PRESSURE OF 100 PSI FOR A PERIOD OF AT LEAST 1-1/2 HOURS. ANY JOINT TO LEAK UNDER TEST SHALL BE BROKEN, REMADE AND RETESTED.
- ALL WASTE PIPING SHALL BE TESTED BY FILLING THE LINES TO OVERFLOWING. ANY JOINT FOUND TO LEAK UNDER TEST SHALL BE BROKEN, REMADE AND RETESTED.

1507 CHLORINATION

WATER PIPE SHALL BE CHLORINATED TO 50 PPM RESIDUAL CHLORINE AFTER TWENTY-FOUR HOURS AND TO THE SATISFACTION OF THE LOCAL HEALTH DEPARTMENT OR BUILDING INSPECTION DEPARTMENT.

1508 SUBSTITUTION

ALL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE SHOWN OR SPECIFIED AND SHALL BE OF THE VERY BEST QUALITY AS SPECIFIED. REQUESTS TO SUBSTITUTE OTHER MATERIALS OR PRODUCTS FOR THOSE SPECIFIED SHALL BE SENT IN WRITING TO THE OWNER. REQUESTS SHALL BE ACCOMPANIED BY ENGINEERING DATA, SPECIFICATION SHEETS, ETC., AS NECESSARY TO FULLY IDENTIFY AND APPRAISE THE PRODUCTS.

APPROVAL OF EQUIPMENT WILL NOT RELIEVE THE CONTRACTOR OF NONCOMPLIANCE WITH THE SPECIFICATIONS EVEN IF SUCH APPROVAL IS MADE IN WRITING, UNLESS THE ENGINEER IS CALLED TO THE NONCONFORMING FEATURES BY LETTER ACCOMPANYING THE SUBMITTAL DATA.

1509 PLACING IN SERVICE

UPON COMPLETION OF THE ENTIRE SYSTEM, THE PLUMBING CONTRACTOR SHALL FLUSH ALL LINES TO INSURE PROPER FLOWS. ALL FIXTURES SHALL BE LEFT CLEAN.

THE PLUMBING CONTRACTOR SHALL DEMONSTRATE THE PROPER FUNCTION OF THE ENTIRE SYSTEM. THE PLUMBING CONTRACTOR SHALL ACQUAINT THE OWNER'S REPRESENTATIVE WITH THE PROPER OPERATION OF THE PLUMBING SYSTEM.

1510 VISIT TO THE SITE

ALL BIDDERS ON THIS WORK SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS BEFORE SUBMITTING THEIR BIDS. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

1511 SHOP DRAWINGS

AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER THE CONTRACT IS SIGNED, THE CONTRACTOR SHALL SUBMIT FIVE (5) COPIES OF THE SHOP DRAWINGS COVERING FIXTURES, AND ANY SPECIAL EQUIPMENT WHICH HE INTENDS TO USE. FOUR (4) COPIES OF THIS DATA WILL BE RETURNED BY THE ENGINEER WHO WILL INDICATE APPROVAL OR OTHERWISE.

1512 FIRE RATED WALLS, FLOORS & CEILINGS

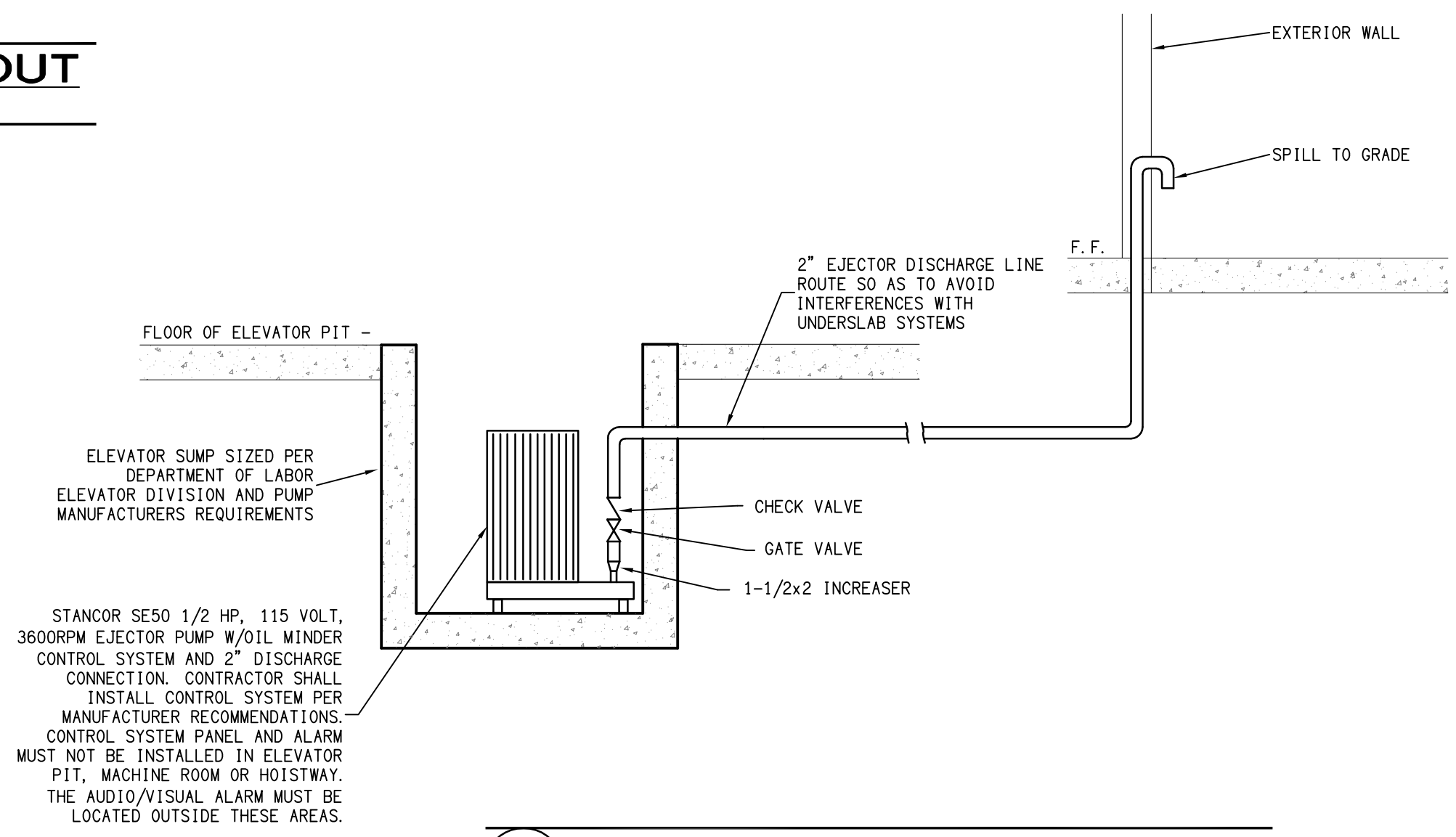
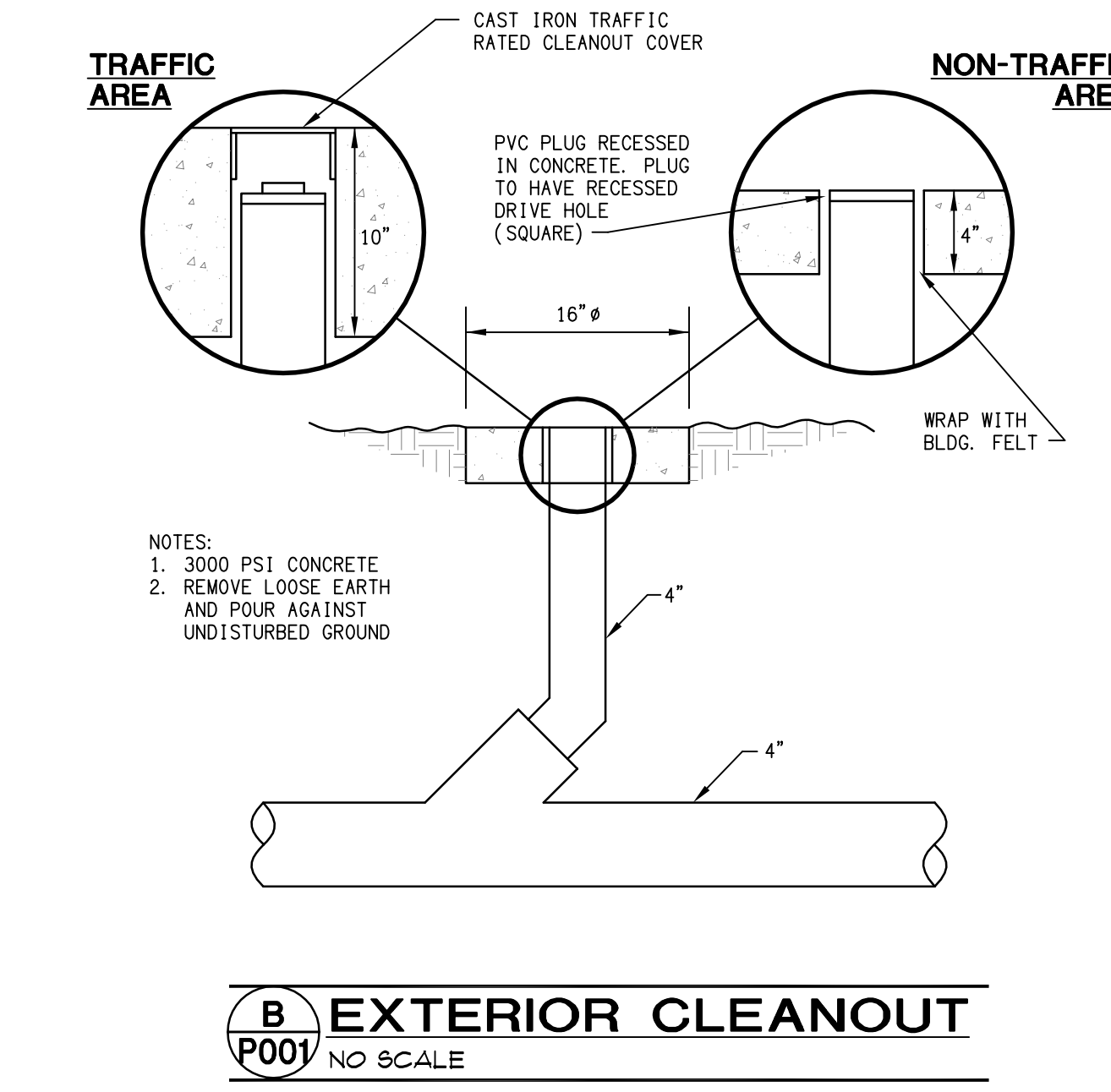
CONTRACTOR SHALL DETERMINE LOCATION OF ALL FIRE AND SMOKE RATED WALLS, FLOORS AND CEILINGS FROM ARCHITECTURAL DRAWINGS. PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE AS REQUIRED BY N.C. BUILDING CODE, WITH APPROVED AND APPROPRIATELY RATED UL FIRESTOP SYSTEMS AT ALL PENETRATIONS. ALL FIRESTOP SYSTEMS SHALL BE APPROVED FOR THEIR APPLICATION BY LOCAL INSPECTION AUTHORITIES PRIOR TO FIELD INSTALLATION.

PLUMBING FIXTURE SCHEDULE -

SYM.	FIXTURE	CW	HW	DRAIN	STOPS & VALVES	MANUF.	MODEL	REMARKS
P-1	WATER CLOSET FLOOR MOUNT FLUSH VALVE HANDICAP	1"	-	3"	FLUSH VALVE	AMERICAN STANDARD	3043.102	INCLUDE SLOAN #111 FLUSH VALVE, CHURCH #295CT OPEN FRONT SEAT W/O COVER. SEE NOTES 1, 2
P-2	WATER CLOSET FLOOR MOUNT FLUSH VALVE	1"	-	3"	FLUSH VALVE	AMERICAN STANDARD	2234.015	INCLUDE SLOAN #111 FLUSH VALVE, CHURCH #295CTJ OPEN FRONT SEAT W/O COVER
P-3	LAVATORY WALL HUNG HANDICAP	1/2"	1/2"	1-1/4"	1/2" x 3/8" ANGLE	AMERICAN STANDARD	0355.012	INCLUDE BRASSCRAFT R19C SUPPLY VALVES W/CHROME PLATED RISERS AND WALL FLANGES. 5502 170 CHROME PLATED FAUCET WITH GRID DRAIN. 4" WRIST OPERATORS 1-1/4X1-1/4 TUBULAR P-TRAP CP. CONCEALED ARM SUPPORTS SEE NOTES 1, 3
P-4	LAVATORY WALL HUNG	1/2"	1/2"	1-1/4"	1/2" x 3/8" ANGLE	AMERICAN STANDARD	0355.012	INCLUDE BRASSCRAFT R19C SUPPLY VALVES W/CHROME PLATED RISERS AND WALL FLANGES. 5502 140 CHROME PLATED FAUCET WITH GRID DRAIN. SHORT BLADE OPERATORS 1-1/4X1-1/4 TUBULAR P-TRAP CP. CONCEALED ARM SUPPORTS SEE NOTE 3
P-5	ELECTRIC WATER COOLER BI-LEVEL	1/2"	-	1-1/4"	-	ELKAY	EZSTL-8-C	COLOR BY ARCHITECT. SEE NOTE 1
P-6	MOP SINK	1/2"	1/2"	3"	-	FIAT	MSB2424	FAUCET: 830AA W/VACUUM BREAKER / HOSE: 832-AA MOP HANGER: 889-CC / STRAINER: E72-DD SEE NOTE 5
P-7	FLOOR DRAIN - PRIMED	-	-	SEE DWG	-	ZURN	ZN-415-SB-P	NIKOLAY TOP DEEP SEAL TRAP, PROVIDE PRIMER TAP. SEE NOTE 4
P-8	WATER HEATER 20 GALLON ELECTRIC	3/4"	3/4"	-	GATE	STATE	ES6 20 SOWS	120 VOLT, 1.65 KW.
P-9	DIAPHRAGM TANK	3/4"	-	-	-	STATE	ETC-2X	PROVIDE PRESSURE CHARGE AS PER MANUFACTURERS INSTRUCTIONS
P-10	FINISHED FLOOR CLEANOUT	-	-	-	-	ZURN	ZN-1400-T	WITH NIKOLAY TOP
P-11	EXTERIOR CLEANOUT	-	-	-	-	ZURN	Z-1400	WITH CAST IRON TOP. SEE (B)
P-12	WALL CLEANOUT COVERPLATE	-	-	-	-	ZURN	Z-1469	STAINLESS STEEL
P-13	HOSE BIBB EXTERIOR	3/4"	-	-	-	WOODFORD	25	PROVIDE VACUUM BREAKER FREEZEPROOF

NOTES:

- MATERIAL AND INSTALLATION SHALL BE PER STATE HANDICAP CODE REQUIREMENTS AND ADA REQUIREMENTS.
- TOILETS SHALL FLUSH ON A MAXIMUM OF 1.6 GALLONS PER FLUSH. THE USE OF OFFSET WATER CLOSET FLANGES IS PROHIBITED. MISALIGNED WATER CLOSET FLANGES MUST BE RE-PIPED.
- LAVATORIES SHALL HAVE 5 GPM FLOW AERATORS.
- FLOOR DRAIN SHALL BE PRIMED WITH 1/2" COPPER LINE FROM NEARBY CLEAR WATER FIXTURE (LAVATORY). TAP CLEAR WATER FIXTURE TAIL PIECE WITH WATER SAVER TRAP PRIMER AND ROUTE COPPER SUPPLY LINE UNDER SLAB TO DRAIN PRIMER CONNECTION. WATER SAVER TRAP PRIMER SHALL BE ACCESSIBLE AND CODE APPROVED. IF A CLEAR WATER FIXTURE SUCH AS A LAVATORY IS NOT AVAILABLE TAP NEARBY COLD WATER LINE AND ROUTE 1/2" PRIMER LINE THROUGH PRIMER VALVE CODE APPROVED FOR WASTE/WATER CROSS CONNECTION. VALVE SHALL BE ACCESSIBLE.
- INSTALL CHECK VALVE ON COLD & HOT SUPPLY LINES SERVING MOP SINK.



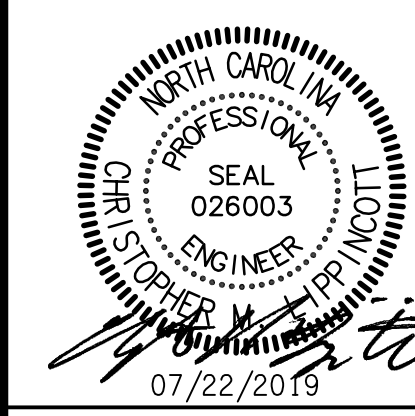
A ELEVATOR EJECTOR SUMP

NO SCALE



ARCHITECTS

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Renovations to:
226 North Front St.
Wilmington, North Carolina 28401

PLUMBING SPECIFICATIONS,
FIXTURE SCHEDULE
AND DETAILS

JOB NUMBER

DRAWN BY

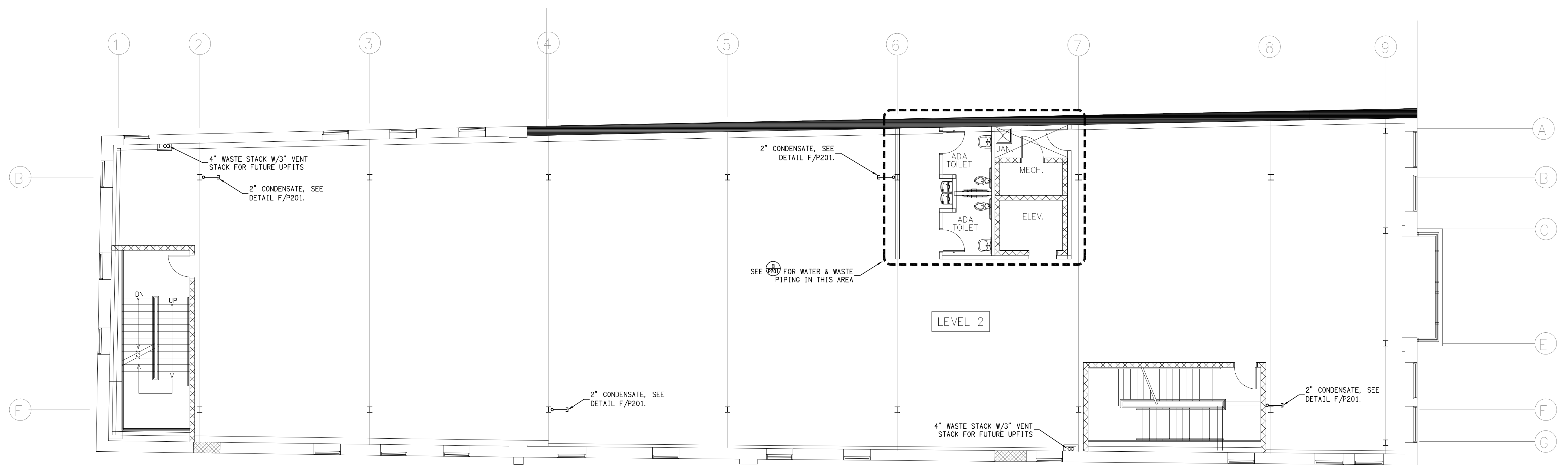
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REVISIONS

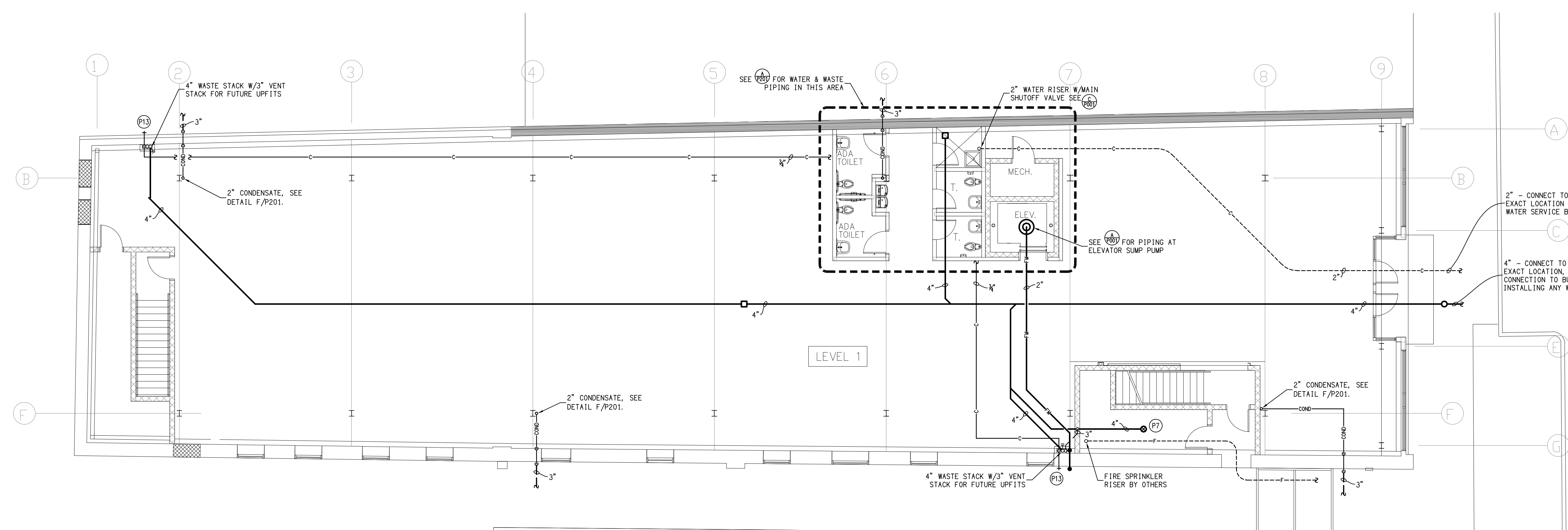
SHEET NUMBER

P-001



LEGEND	
	WASTE PIPE
	VENT PIPE
	COLD WATER PIPE - ABOVE GRADE
	COLD WATER PIPE - BELOW GRADE
	HOT WATER PIPE - ABOVE GRADE - 110° F
	GATE VALVE
	HOSE BIBB
	UNION
	PIPE REDUCTION
	INTERIOR CLEANOUT (P10)
	EXTERIOR CLEANOUT (P11)
	WALL CLEANOUT (P12)
	VTR VENT THROUGH ROOF
	CO CLEANOUT
	REFER TO PLAN OR DETAIL A ON SHEET P1
	RELIEF VALVE
	FLOOR DRAIN
	BACKFLOW PREVENTER

B P101 RENOVATED SECOND FLOOR PLAN
 SCALE: 1/8" = 1'-0"



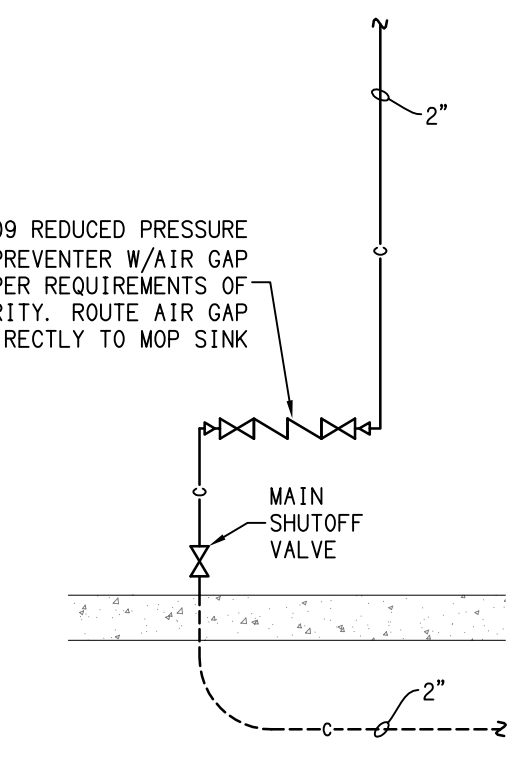
A P101 RENOVATED FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"

WATER DESIGN ASSUMES :
 - 2" TAP AND WATER METER.
 - 100' MAX. OF 2" SITE WATER SUPPLY LINE.

2" - CONNECT TO BUILDING WATER SERVICE. VERIFY EXACT LOCATION AND SIZE OF CONNECTION TO BUILDING WATER SERVICE BEFORE INSTALLING ANY WATER PIPE

4" - CONNECT TO BUILDING SEWER. VERIFY EXACT LOCATION, SIZE AND DEPTH OF CONNECTION TO BUILDING SEWER BEFORE INSTALLING ANY WASTE PIPE

1 1/2" WATTS 909 REDUCED PRESSURE BACKFLOW PREVENTER W/AIR GAP INSTALLED AS PER REQUIREMENTS OF LOCAL AUTHORITY. ROUTE AIR GAP DISCHARGE LINE INDIRECTLY TO MOP SINK



C P101 WATER RISER
 NO SCALE

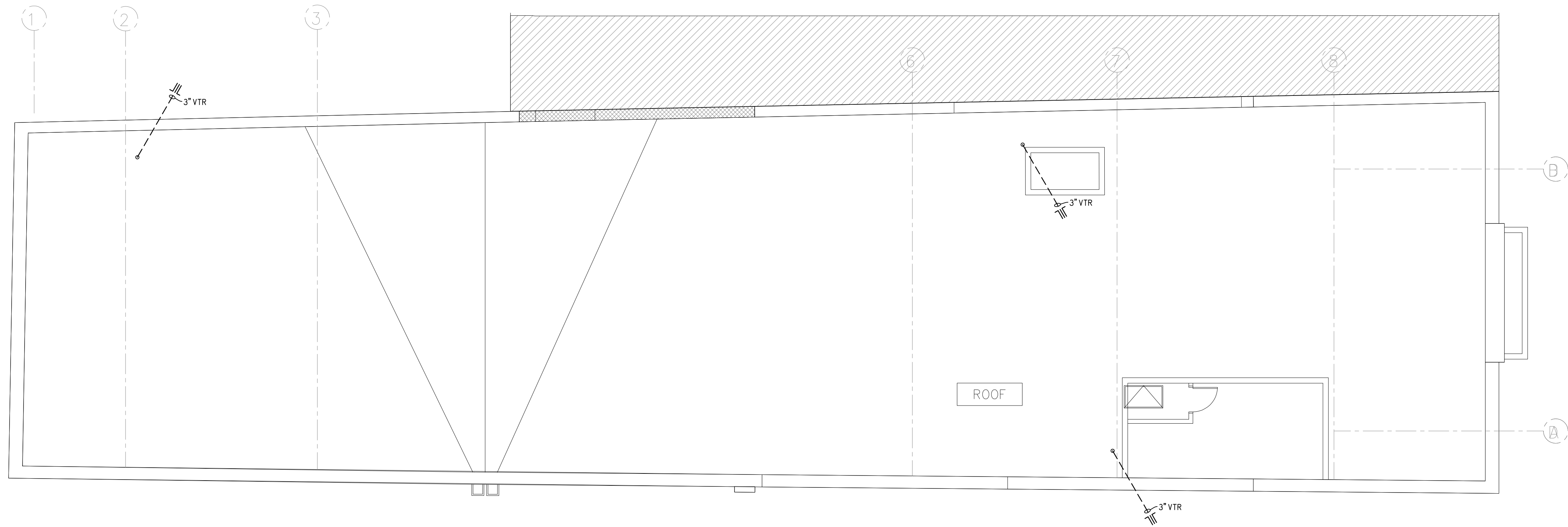
Renovations to:
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 Wilmington, North Carolina 28401

PLUMBING
 FIRST AND
 SECOND
 FLOOR PLANS

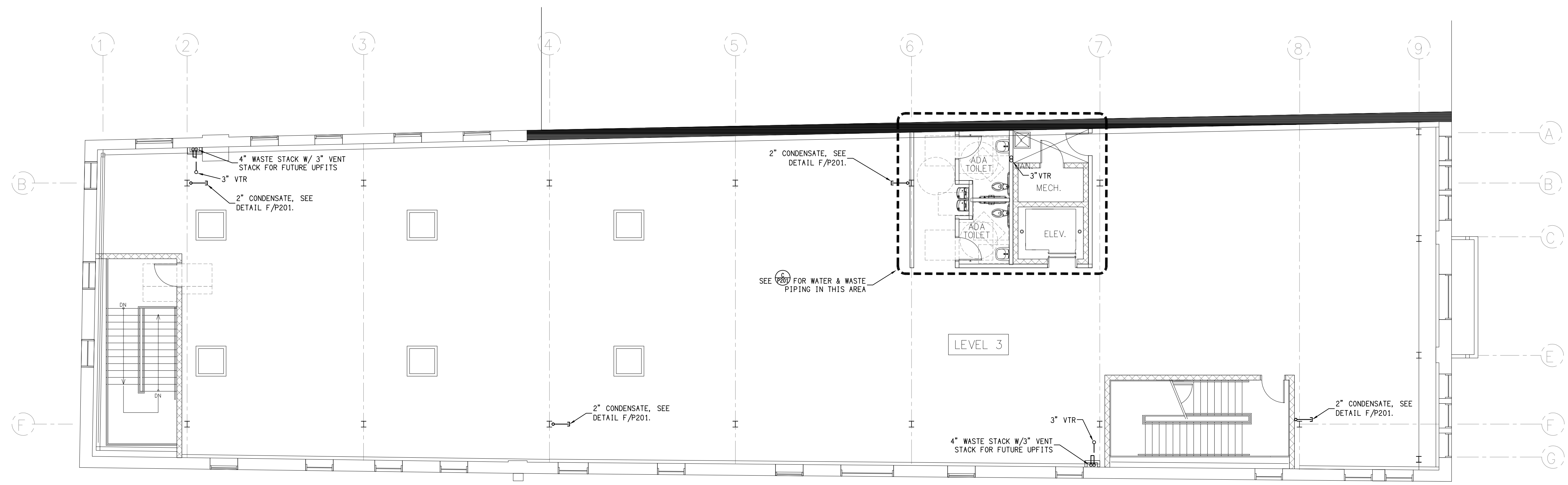
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B RENOVATED ROOF PLUMBING PLAN
 P102 SCALE: 1/8" = 1'-0"



A RENOVATED THIRD FLOOR PLUMBING PLAN
 P102 SCALE: 1/8" = 1'-0"

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PLUMBING
 THIRD FLOOR
 AND ROOF
 PLANS

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P-102

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