

THA ARCHITECTS, LLC

ARCHITECTURE DESIGN PLANNING INTERIOR DESIGN

105 WILLOW BROOK AVENUE STRATHAM, NEW HAMPSHIRE 03885

Tel: (603) 770-2491 Fax: (603) 773-0238 www.thaarc.com

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midtown Portland

Somerset Street Elm Street Portland, ME

Building 2 Plumbing Specifiactions and Legend

Structural Engineer Becker Engineering MEP ENGINEER McCabe Associates FP Engineer McCabe Associates

SCALE: NONE

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Table with 2 columns: Revision number, Description

JOB NO: 15001

SHEET NUMBER

P-0.1

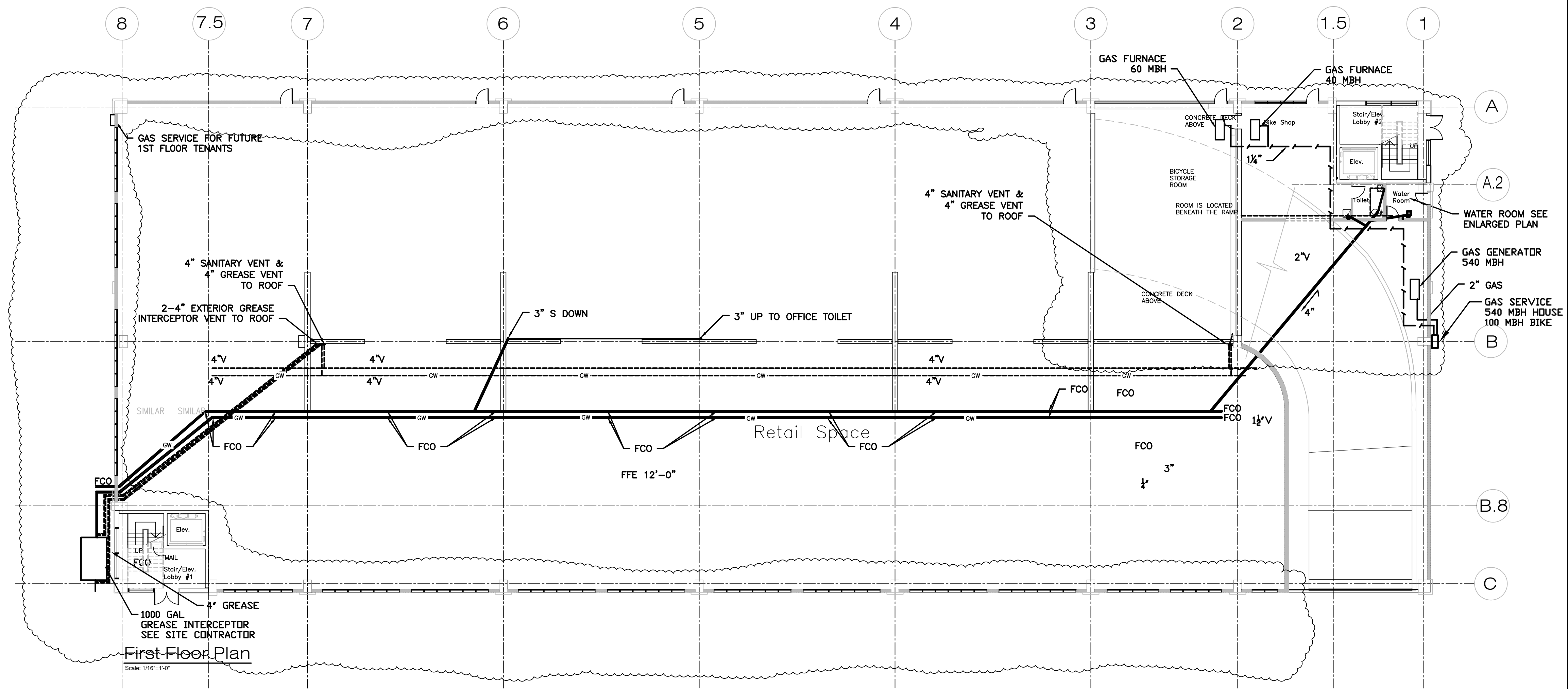
PLUMBING SPECIFICATIONS

- 1. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL PLUMBING EQUIPMENT SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED. EQUIPMENT ITEMS NOT SHOWN OR CALLED FOR SUCH AS FITTINGS, VALVES, VACUUM BREAKERS, HAMMER ARRESTERS, RELIEF VALVES, ETC. SHALL ALSO BE INSTALLED TO MAKE A COMPLETE AND WORKABLE PLUMBING SYSTEM.
2. THE WORK SHALL INCLUDE, BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:
A. SANITARY DRAINAGE SYSTEM.
B. HOT AND COLD WATER PIPING.
C. ROOF DRAINAGE SYSTEM.
D. GAS PIPING SYSTEM.
E. PIPE INSULATION.
F. PLUMBING FIXTURES AND PLUMBING EQUIPMENT.
G. WATER HAMMER ARRESTERS.
H. WATER METER AND BACKFLOW PREVENTER.
I. HOT WATER HEATER.
J. FLOOR DRAINS.
K. FLOOR CLEANOUTS.
L. VENT PIPING.
M. VALVES AND SILL COCKS.
N. SHOP DRAWINGS.
O. NAME TAGS.
3. THE FOLLOWING WORK IS TO BE DONE BY OTHER TRADES:
A. EXCAVATION AND BACKFILL.
B. CONCRETE WORK.
C. PAINTING.
D. ACCESS PANELS.
E. CUTTING AND PATCHING.
F. ELECTRICAL WIRING.
G. BATHROOM ACCESSORIES.
4. OBTAIN AND PAY FOR ALL REQUIRED TEST, PERMITS, INSPECTIONS AND BACK CHARGES.
5. ALL WORK SHOWN ON THE PLANS IS INTENDED TO BE APPROXIMATELY CORRECT TO SCALE. BUT FIGURED DIMENSIONS AND DETAILED DRAWINGS ARE TO BE FOLLOWED IN EVERY CASE. THE DRAWINGS SHALL BE TAKEN IN A SENSE AS DIAGNAMATIC. METHODS OF RUNNING PIPES ARE SHOWN BUT IT IS NOT INTENDED TO SHOW OFFSETS AND FITTINGS, OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED.
6. MATERIAL, INSTALLATIONS AND WORKMANSHIP SHALL BE IN FULL ACCORD WITH THE MOST MODERN PLUMBING CONSTRUCTION REQUIREMENTS. ALL MATERIALS SHALL BE NEW. THIS CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, BOCA AND NATIONAL CODES.
7. THIS CONTRACTOR SHALL INSPECT THE SITE AND SHALL INVESTIGATE ALL CONDITIONS UNDER WHICH HIS WORK WILL BE PERFORMED. HE SHALL COORDINATE HIS WORK SO THAT IT DOES NOT INTERFERE WITH THE WORK OF OTHER TRADES AND THE GENERAL CONTRACTORS BUILDING SCHEDULE.
8. INSULATE ALL HOT AND COLD WATER PIPING WITH OWENS CORNING OR EQUAL FIBERGLASS SECTIONAL PIPE INSULATION TYPE ASI/SSLII OR EQUAL. INSTALL 1/2 INCH THICK INSULATION ON COLD WATER AND 1 INCH THICK INSULATION ON HOT WATER PIPING. FITTINGS TO BE INSULATED WITH "ZESTON" PRE-MOLDED FIBERGLASS FITTING INSULATION.
9. THE CONTRACTOR SHALL GUARANTEE HIS WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. IF ANY DEFECTS IN MATERIALS OR WORKMANSHIP OCCUR WITHIN THIS PERIOD, THEY SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER. MOTORS AND PUMPS SHALL INCLUDE A FIVE YEAR WARRANTY BY THE MANUFACTURER.
10. BEFORE PURCHASING THE FOLLOWING EQUIPMENT, SUBMIT FIVE (5) COMPLETE COPIES OF DESCRIPTIVE EQUIPMENT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE ARCHITECT/ENGINEER THROUGH THE GENERAL CONTRACTOR.
A. PLUMBING FIXTURES AND TRIM.
B. FLOOR CLEANOUTS.
C. FLOOR DRAINS.
D. VALVES AND SILL COCKS.
E. WATER HEATER.
F. PIPE INSULATION.
G. BACKFLOW PREVENTER AND PRESSURE REDUCING VALVE.
H. ROOF DRAINS.
11. ALL SHOP DRAWINGS SHALL BE SUBMITTED AT ONE TIME. ANY EQUIPMENT SUBSTITUTED THAT REQUIRES EXTRA WORK OR COST BY OTHER TRADES SHALL BE COMPENSATED BY THIS CONTRACTOR TO THE APPLICABLE TRADES INVOLVED.
12. SOIL, STORM, WASTE, VENT PIPING AND FITTINGS ABOVE GROUND SHALL BE HUBLESS CAST IRON SOIL PIPE AND FITTINGS.
13. SOIL, STORM, WASTE, VENT PIPING AND FITTINGS UNDERGROUND CAN GROUND SHALL BE PVC SCHEDULE 40 SOIL PIPE AND FITTINGS.
14. WATER PIPING ABOVE GROUND WITHIN BUILDING SHALL BE TYPE "L" HARD SEAMLESS COPPER TUBING WITH CAST BRONZE SOLDER TYPE FITTINGS. EXPOSED PIPING AT FIXTURES SHALL BE CHROME PLATED BRASS. MINIMUM SIZE 1/2" EXCEPT 3/8" AT FIXTURES.
15. FURNISH AND INSTALL PATENTED TYPE DIELECTRIC FITTINGS OR COUPLINGS, EPCO, VALLETT, MAY OR APPROVED EQUAL, IN PIPE SYSTEMS WHEREVER DISSIMILAR METALS ARE JOINTED.
16. GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH THREADED MALLEABLE IRON FITTINGS. ALL GAS PIPING SHALL BE PAINTED YELLOW.
17. GAS COCK SHALL BE WATTS REGULATOR SERIES GBV APPROVED GAS BALL VALVE.
18. EACH ABOVE GROUND PORTION OF THE GAS PIPING SYSTEM UPSTREAM FROM EACH EQUIPMENT SHUTOFF VALVE SHALL BE ELECTRICALLY CONTINUOUS AND BONDED TO ANY GROUNDING ELECTRODES.
19. SHUT-OFF VALVES SHALL BE WATTS REGULATOR NO. B\_ 6001 OR EQUAL BRONZE BALL VALVE WITH SOLDER ENDS.
20. FURNISH TO THE GARAGE CONTRACTOR, FLASHING COLLAR WITH CAULKING RING FOR ALL PIPES PASSING THROUGH DECKS.
21. FURNISH AND INSTALL ALL REQUIRED HANGERS, STRUCTURAL SUPPORTS, RIGGING, SLEEVES, LADDERS, HOIST AND OTHER REQUIREMENTS FOR THE INSTALLATION OF ALL PLUMBING EQUIPMENT.
22. FURNISH AND INSTALL WATER HAMMER ARRESTERS AT ALL LOCATIONS HAVING QUICK CLOSING VALVES.
23. THIS CONTRACTOR SHALL INSTRUCT THE OWNERS REPRESENTATIVE ON THE PROPER OPERATION OF ALL EQUIPMENT AND GIVE ANY LITERATURE FURNISHED BY THE MANUFACTURER, REGARDING PROPER OPERATING AND MAINTENANCE PROCEDURE, TO THE OWNER.
24. WALL HYDRANT (WH) SHALL BE ZURN MODEL Z-1310 OR EQUAL CAST BRONZE, NON-FREEZE WALL HYDRANT WITH 3/4" H.P.T. OUTLET, BACKFLOW PREVENTER AND INTEGRAL VACUUM BREAKER.
25. FLOOR CLEANOUTS SHALL BE ZURN Z\_1400 OR EQUAL CAST IRON BODY FLOOR CLEANOUT WITH NICKEL BRONZE TOP.
26. PARKING GARAGE FLOOR AND ROOF DRAINS SHALL BE ZURN Z\_535\_NB OR EQUAL CAST IRON BODY FLOOR DRAIN WITH NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION.
27. PARKING GARAGE ENTRANCE TRENCH DRAIN SHALL BE ZURN Z-886 OR EQUAL WITH DUCTILE IRON SLOTTED GRATES.
28. WATER ROOM FLOOR DRAIN SHALL BE ZURN Z-FD2350 OR EQUAL.
29. TRAP PRIMER SHALL BE ZURN Z\_1022 OR EQUAL SANI\_GARD AUTOMATIC TRAP PRIMER.
30. WALL MOUNTED LAVATORY SHALL BE KOHLER #K-2005 OR EQUAL WITH #K-15199-F OR EQUAL FAUCET.
31. WATER CLOSETS SHALL BE KOHLER #K-3999-0 OR EQUAL, TWO PIECE, ELONGATED BOWL, ADA.
32. MOP RECEPTOR FOR BIKE SHOP SHALL BE FIAT MSB2424 OR EQUAL WITH #830AA OR EQUAL SERVICE FAUCET WITH WALL BRACE. VACUUM BREAKER AND PAIL HOOK NO. 889-CC MOP HANGER NO. 832-AA HOSE AND HOSE BRACKET.
33. POINT OF USE WATER HEATER SHALL BE BOSCH MODEL US6 OR EQUAL 6000W 277 VOLT (GARAGE OFFICE)
34. TANKLESS WATER HEATER FOR BIKE SHOP SHALL BE HUBBLE MODEL TX24-3T4 OR EQUAL, 24 KW, 480 VOLT, 3 PHASE 90 DEGREE RISE AT 1.5 GPM

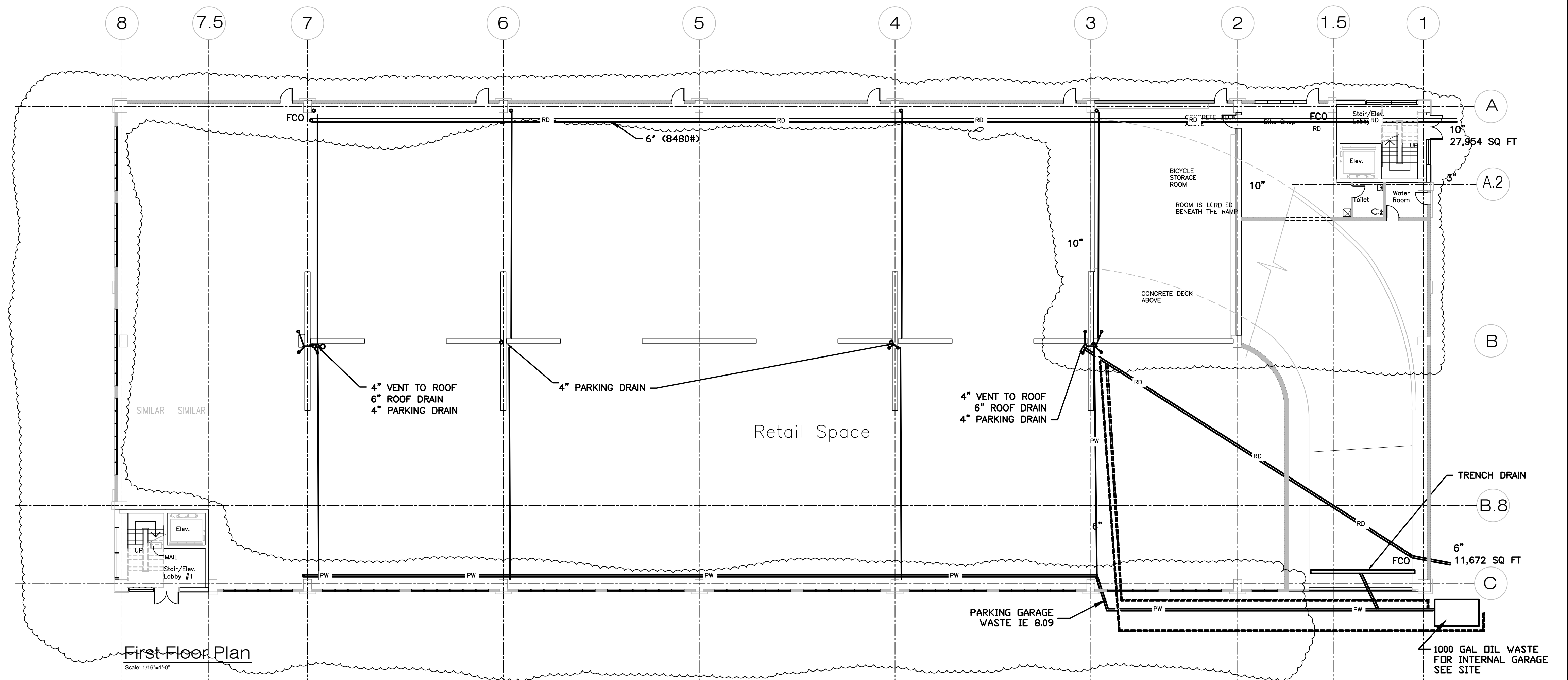
PLUMBNG LEGEND

- ===== SOIL (S.) OR WASTE (W.) UNDER FLOOR SLAB.
===== SOIL (S.) OR WASTE (W.) ABOVE FLOOR.
===== GW ===== GREASE WASTE (GW) UNDER FLOOR SLAB.
===== RD ===== ROOF DRAIN (STORM) UNDER FLOOR SLAB.
----- VENT (V.) ABOVE FLOOR.
===== VENT (V.) BELOW FLOOR.
-----GW----- GREASE VENT (GV.) BELOW FLOOR.
-----GW----- GREASE VENT (GV.) ABOVE FLOOR.
----- COLD WATER (C.W.) PIPING
----- HOT WATER (H.W.) PIPING.
- - - - - GAS (G.) PIPING IN BUILDING.
- - - - - WATER SERVICE PIPING UNDERGROUND, INTO BUILDING.
| | | | SHUT-OFF VALVE.
| | | | GAS COCK PER CODE.
| | | | 'P' TRAP.
| | | | BACKFLOW PREVENTER.
RD [ ] ROOF DRAIN.
FD [ ] FLOOR DRAIN.
CD [ ] CLEANOUT; F.CO., FLOOR CLEANOUT; VTR, VENT STACK THROUGH ROOF; EWH, ELECTRIC WATER HEATER; H.W.C, ADA WATER CLOSET; H.LAV, ADA LAVATORY; WHA, WATER HAMMER ARRESTER; F.D, FLOOR DRAIN; I.E., INVERT ELEVATION; ELEV., ELEVATION; BWV, BACK WATER VALVE; BFP, BACKFLOW PREVENTOR; RD, ROOF DRAIN



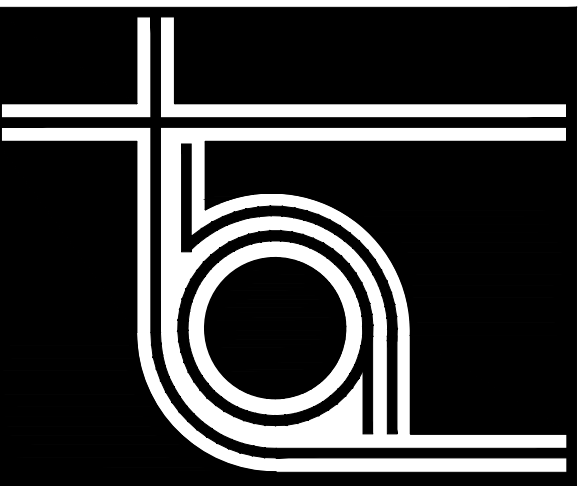


RETAIL/RESTAURANT SANITARY AND GREASE WASTE PIPING



PARKING GARAGE ROOF AND FLOOR DRAIN PIPING

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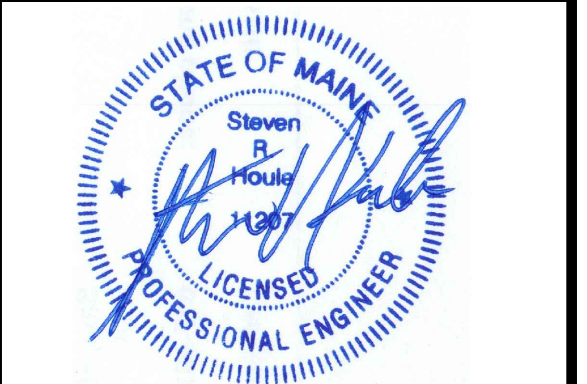
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ARCHITECTURE • DESIGN • PLANNING • INTERIOR DESIGN

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STRATHAM, NEW HAMPSHIRE 03885

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www.thaarc.com

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midtown Portland

Somerset Street  
Elm Street  
Portland, ME

Building 2  
First floor  
SECOND FLOOR  
PLUMBING PLANS

Structural Engineer  
Becker Engineering  
MEP ENGINEER  
McCabe Associates  
FP Engineer  
McCabe Associates

SCALE: 1/16"=1'-0"

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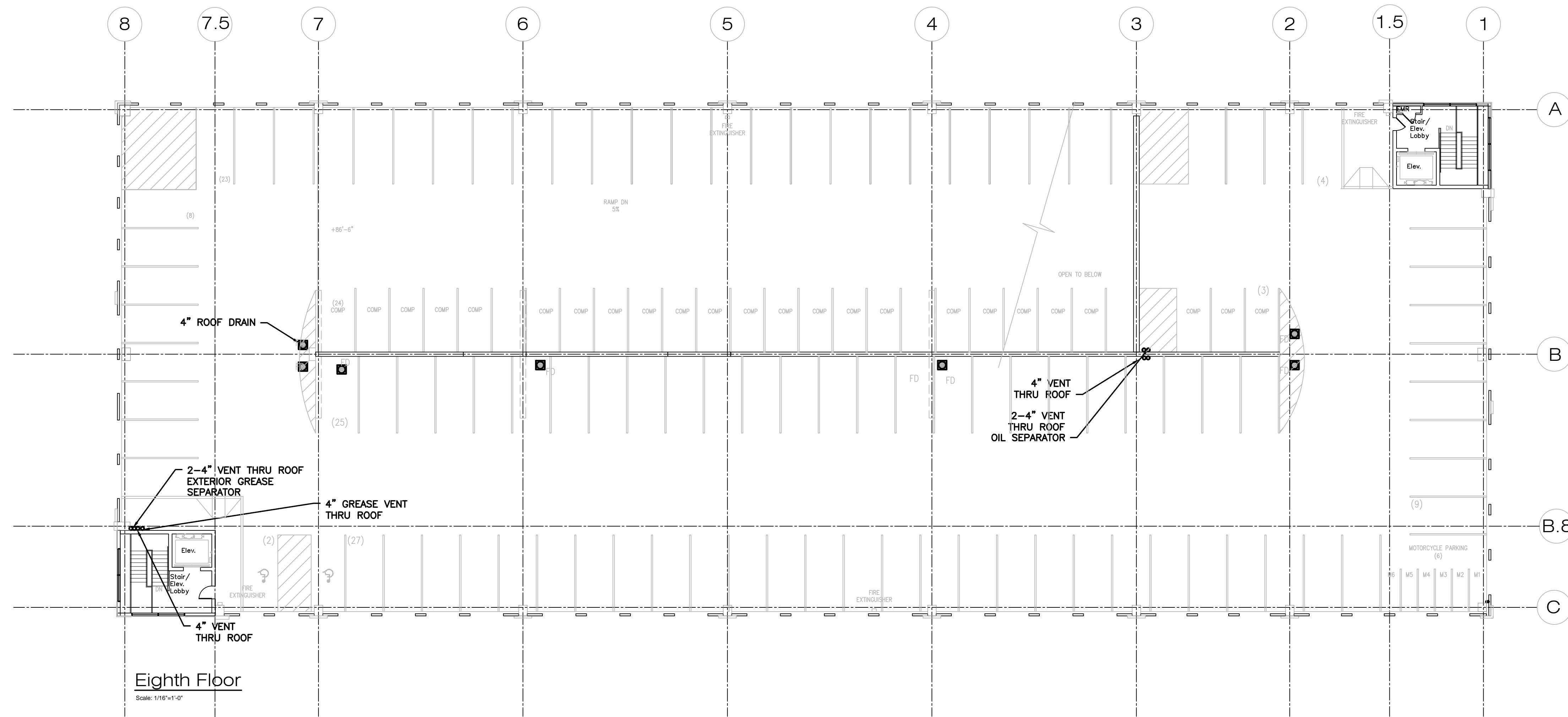
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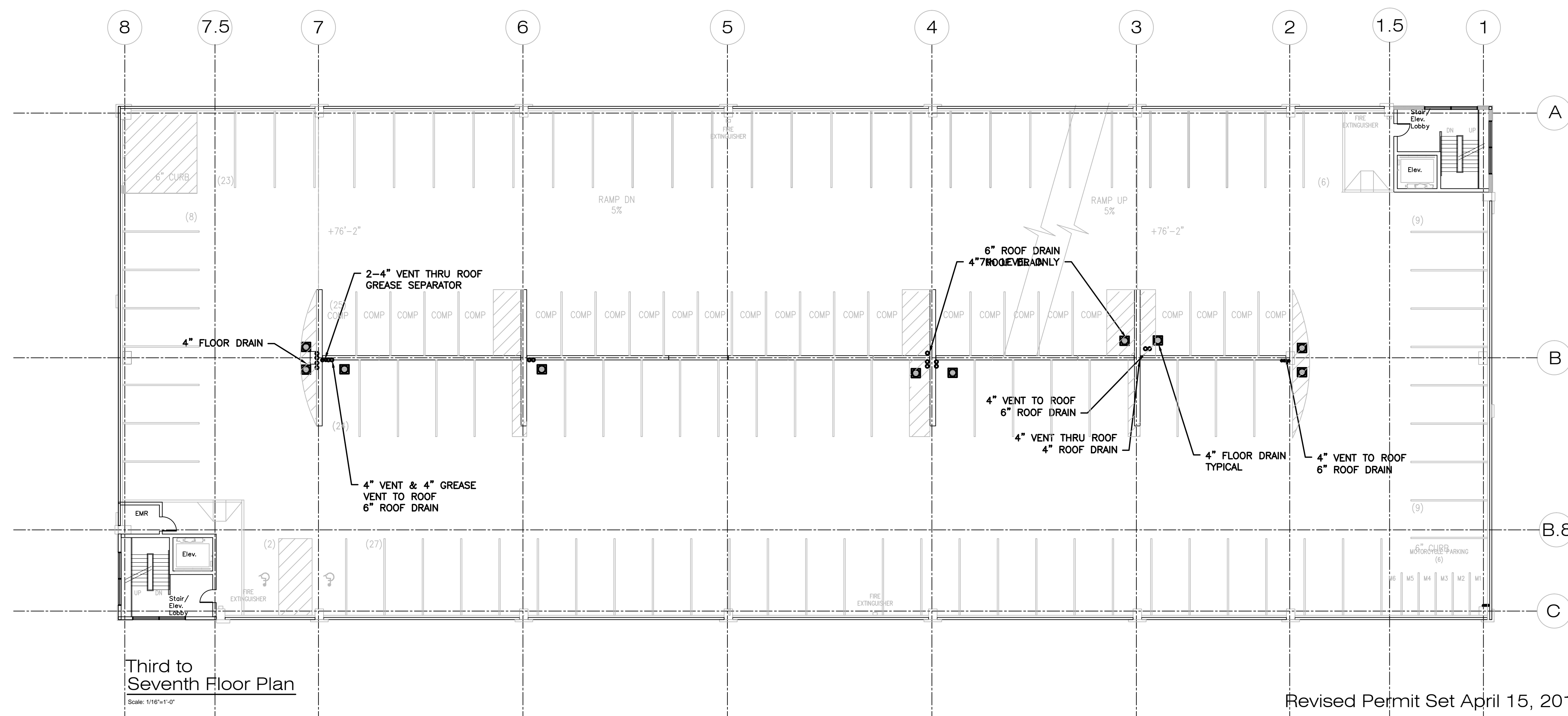
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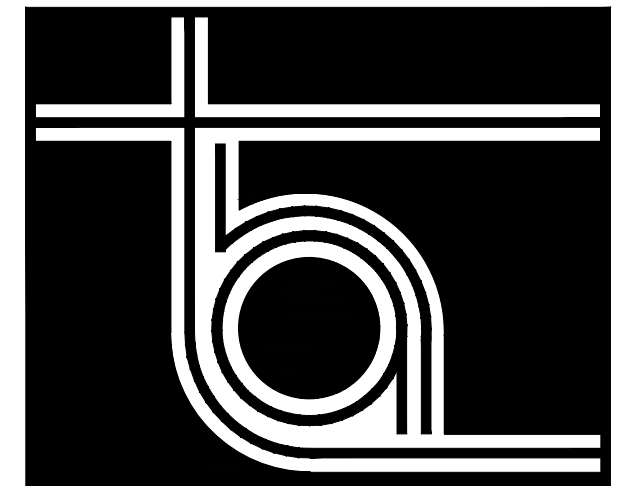


**Eighth Floor**  
Scale: 1/16"=1'-0"



**Third to Seventh Floor Plan**  
Scale: 1/16"=1'-0"

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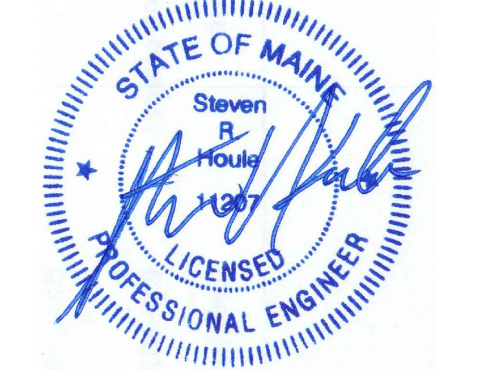


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midtown Portland

Somerset Street  
Elm Street  
Portland, ME

**Building 2  
ROOF & 7TH  
PLUMBING  
PLAN & DETAILS**

Structural Engineer  
Becker Engineering  
MEP ENGINEER  
McCabe Associates  
FP Engineer  
McCabe Associates

SCALE: 1/16"=1'-0"

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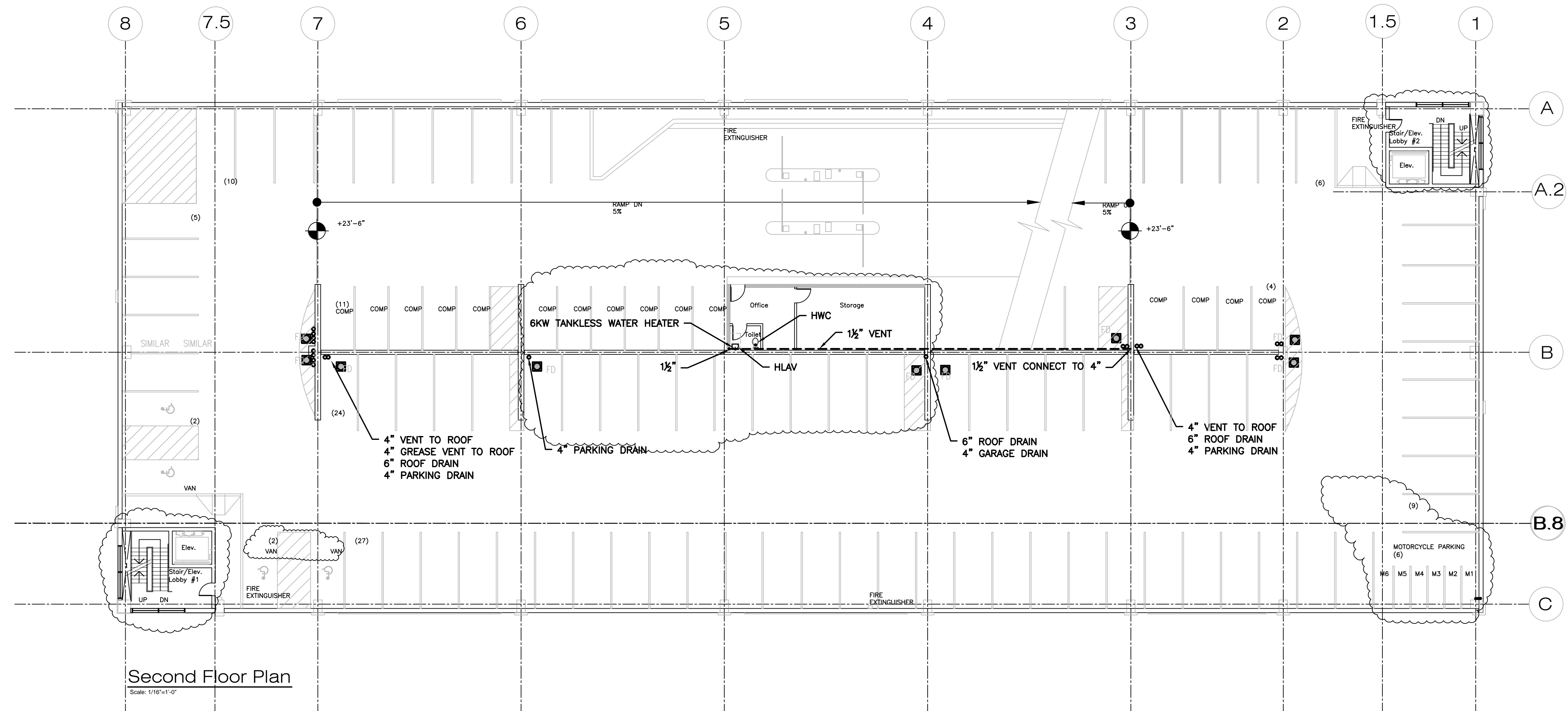
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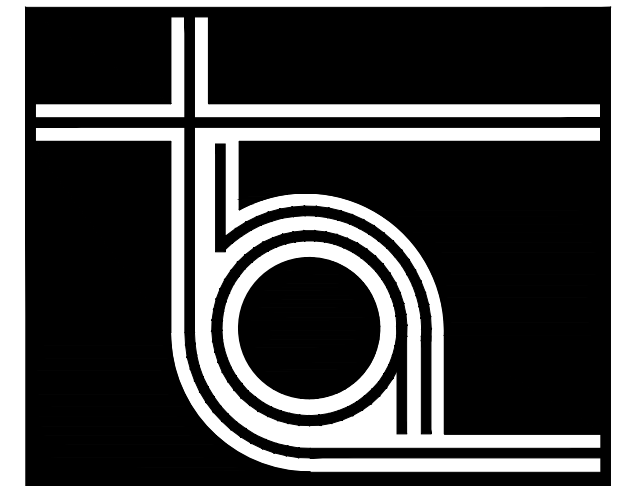
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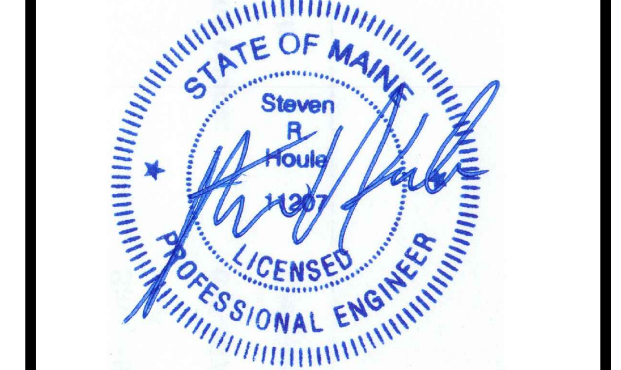
Second Floor Plan  
Scale: 1/16"=1'-0"



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Somerset Street  
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Portland, ME

**Building 2**  
Second Floor  
**PLUMBING**  
PLAN & DETAILS

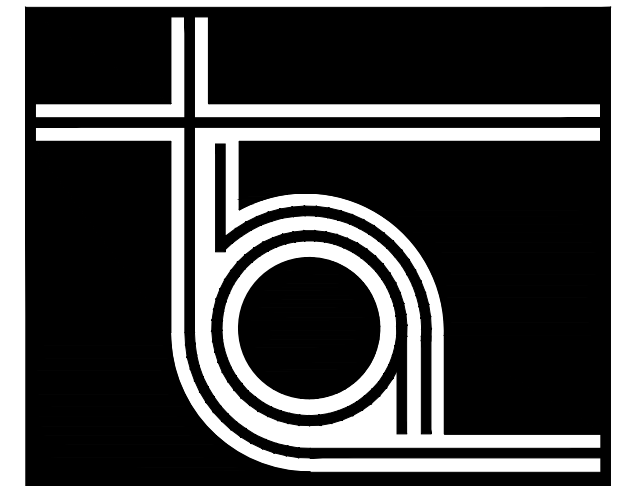
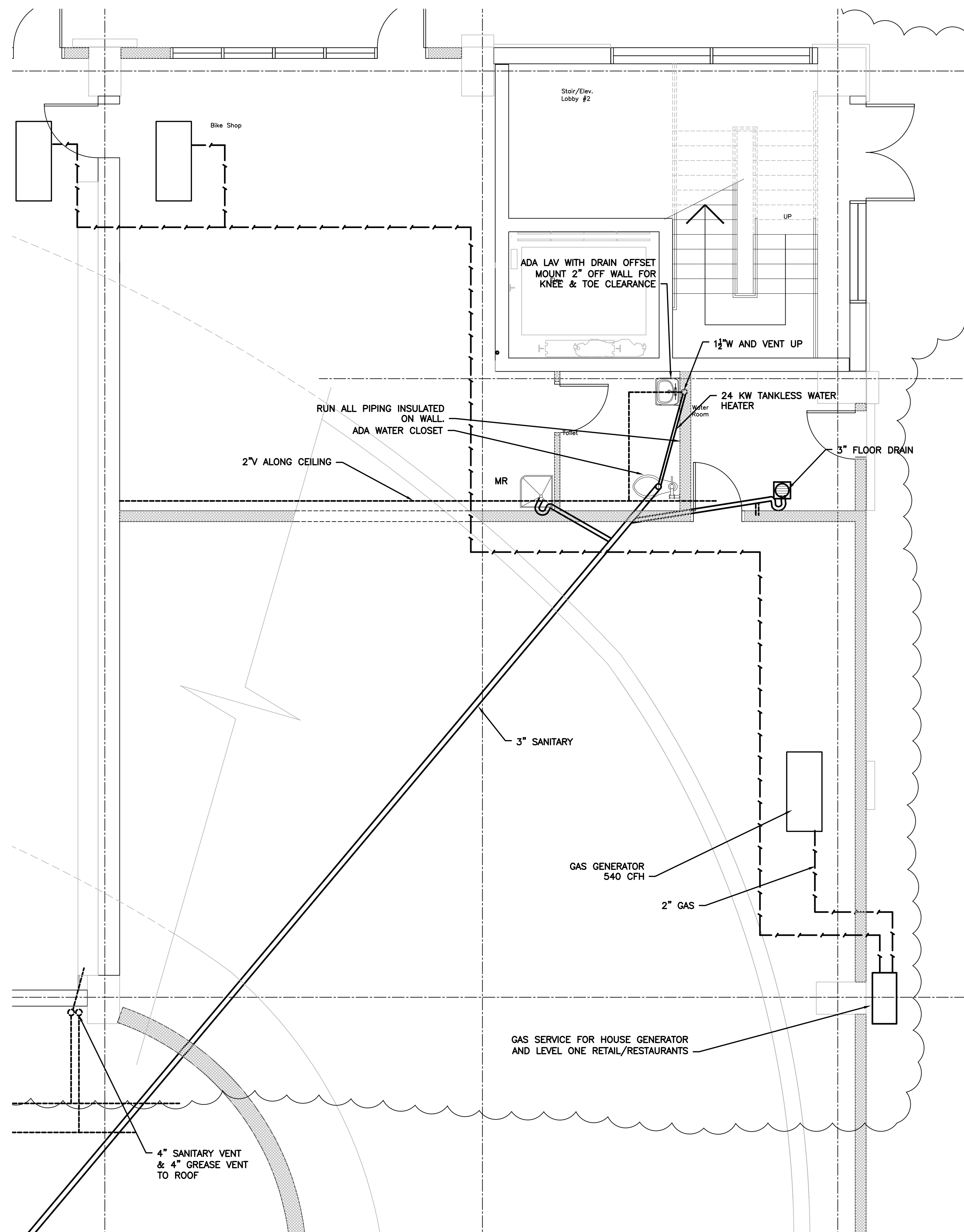
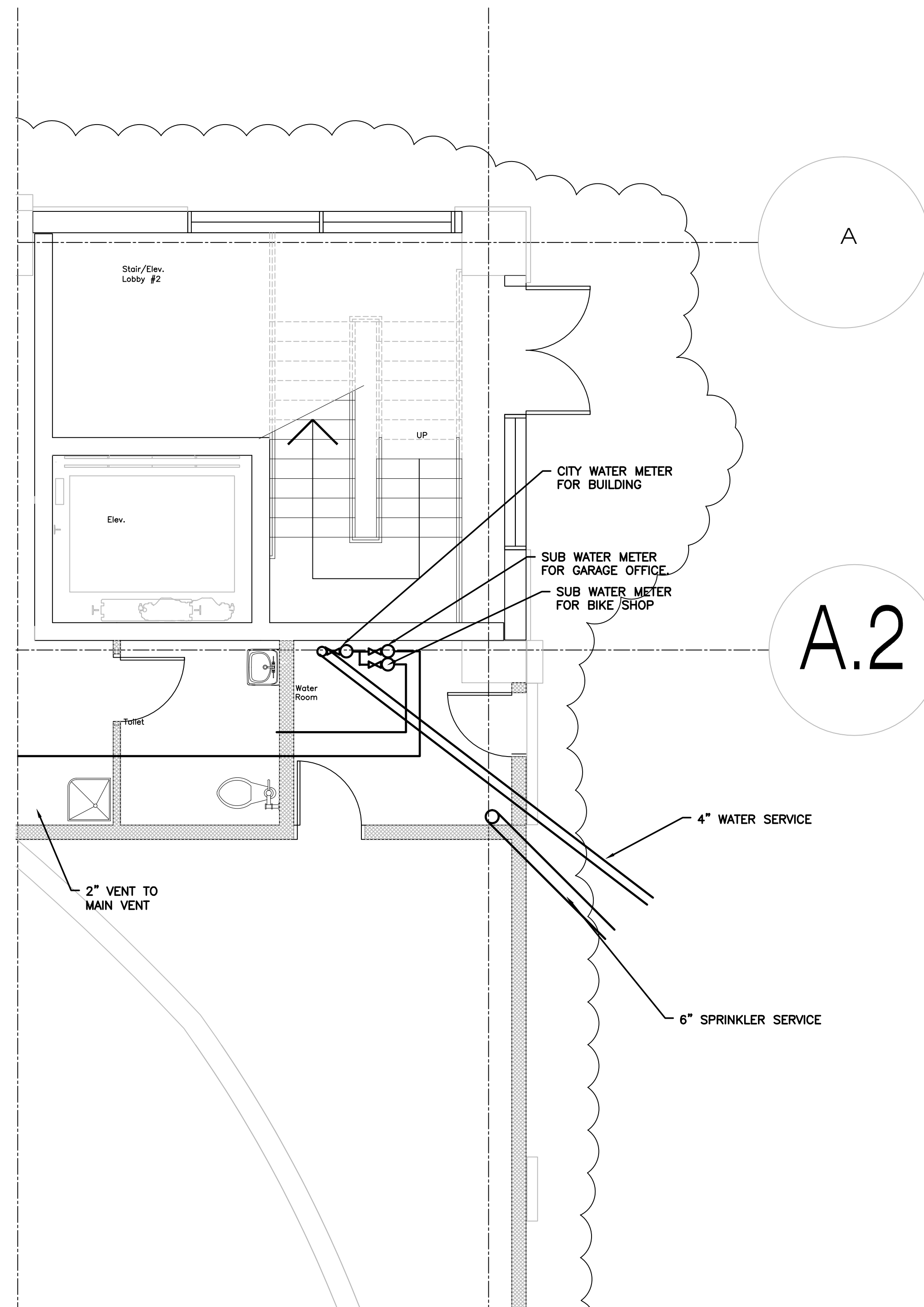
Structural Engineer  
Becker Engineering  
MEP ENGINEER  
McCabe Associates  
FP Engineer  
McCabe Associates

SCALE: 1/16"=1'-0"  
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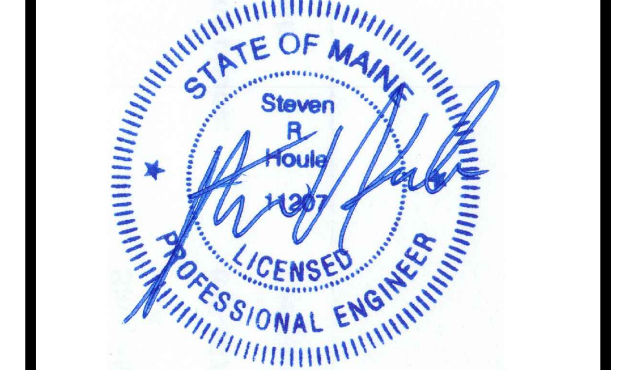
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Somerset Street  
 Elm Street  
 Portland, ME

**Building 2  
 Large Scale  
 Plumbing  
 Plans**

Structural Engineer  
 Becker Engineering  
 MEP ENGINEER  
 McCabe Associates  
 FP Engineer  
 McCabe Associates

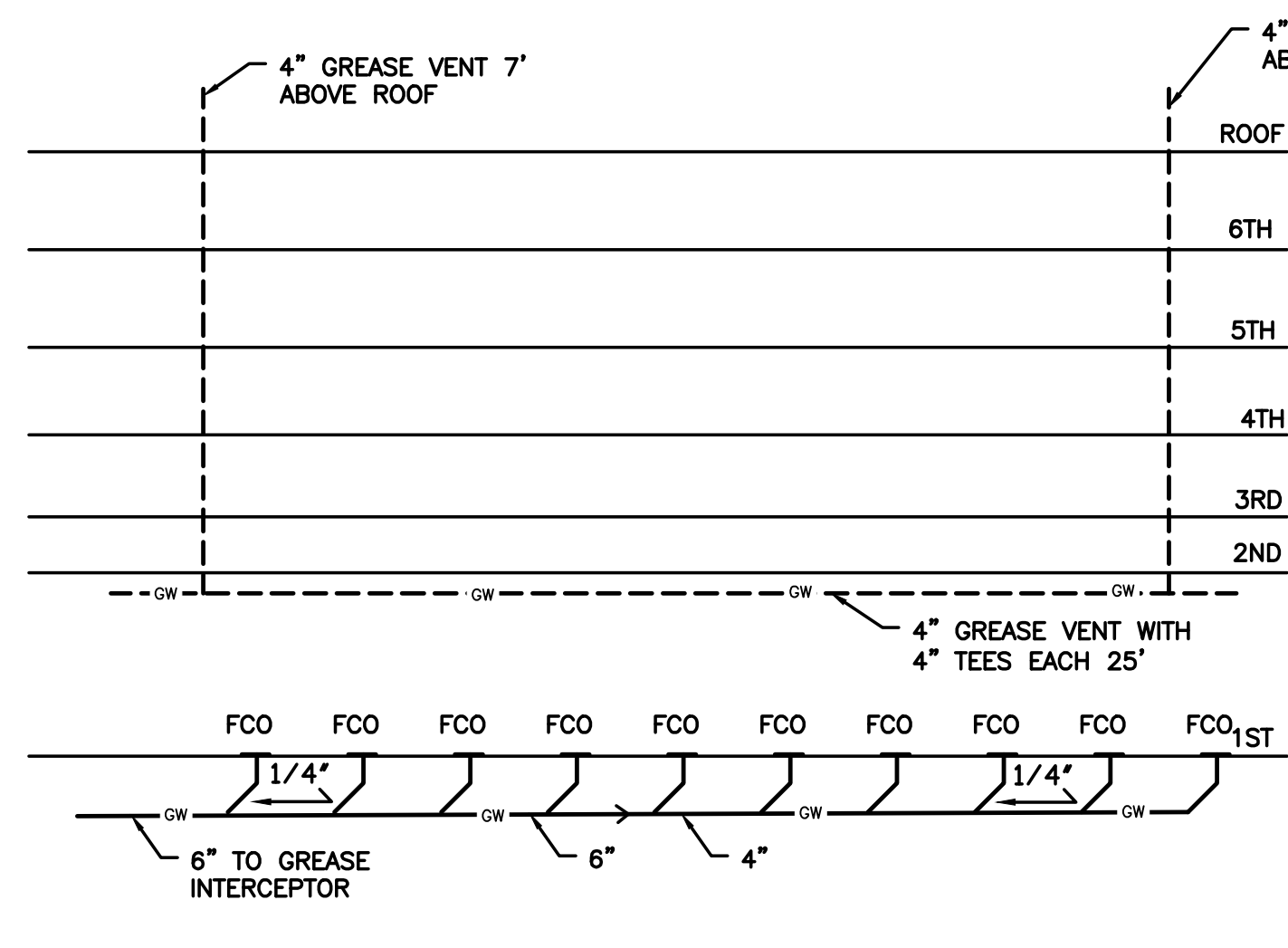
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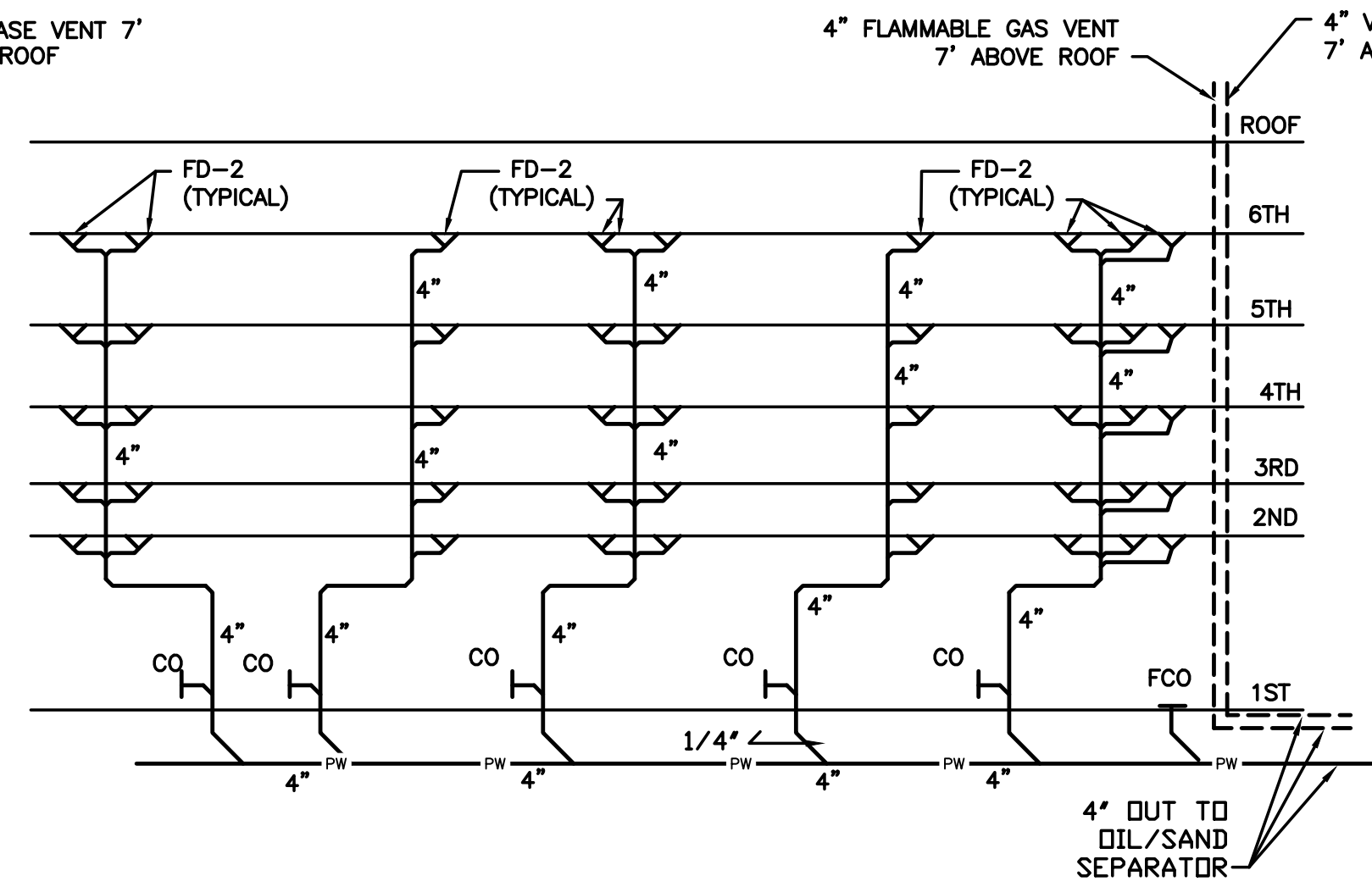
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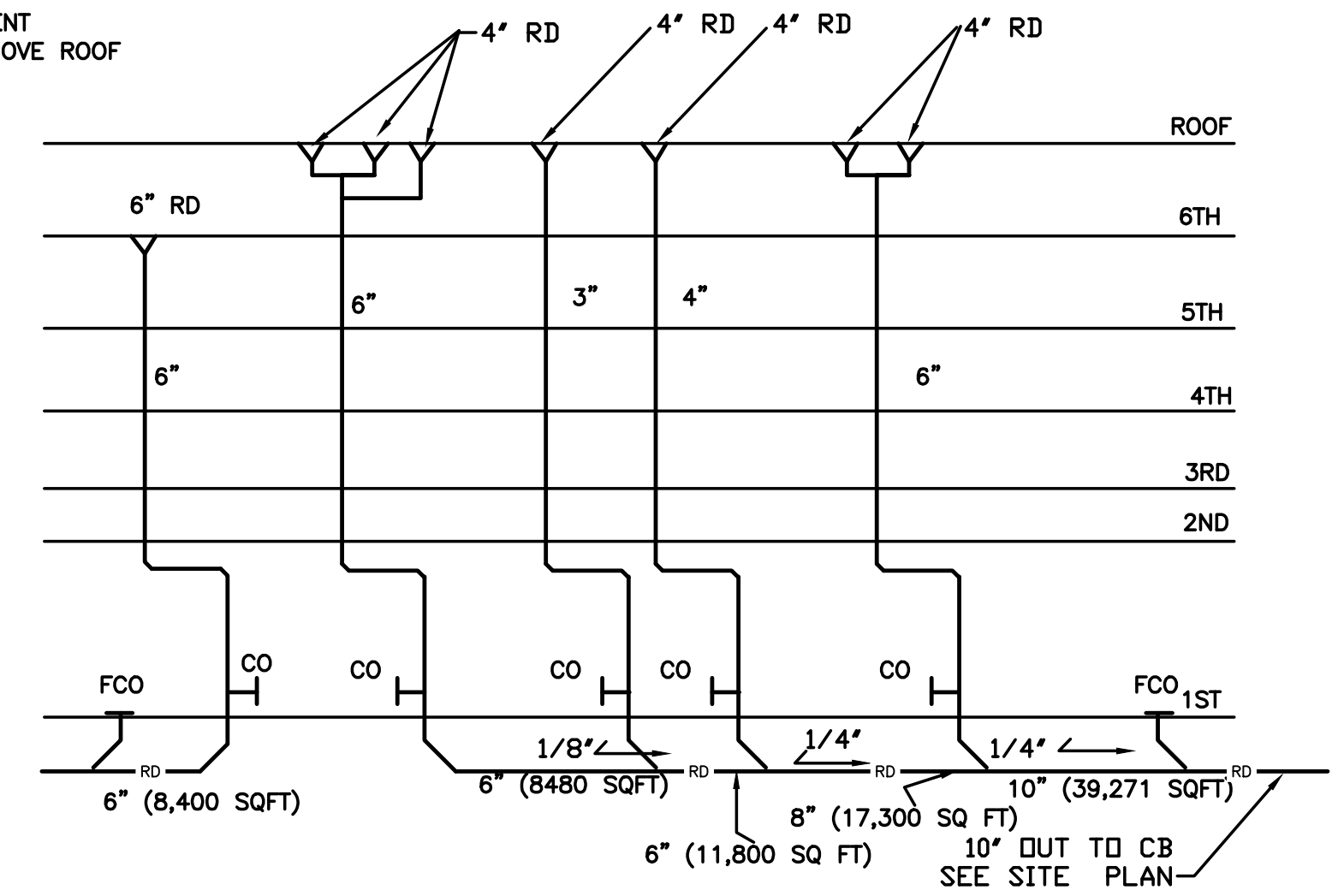




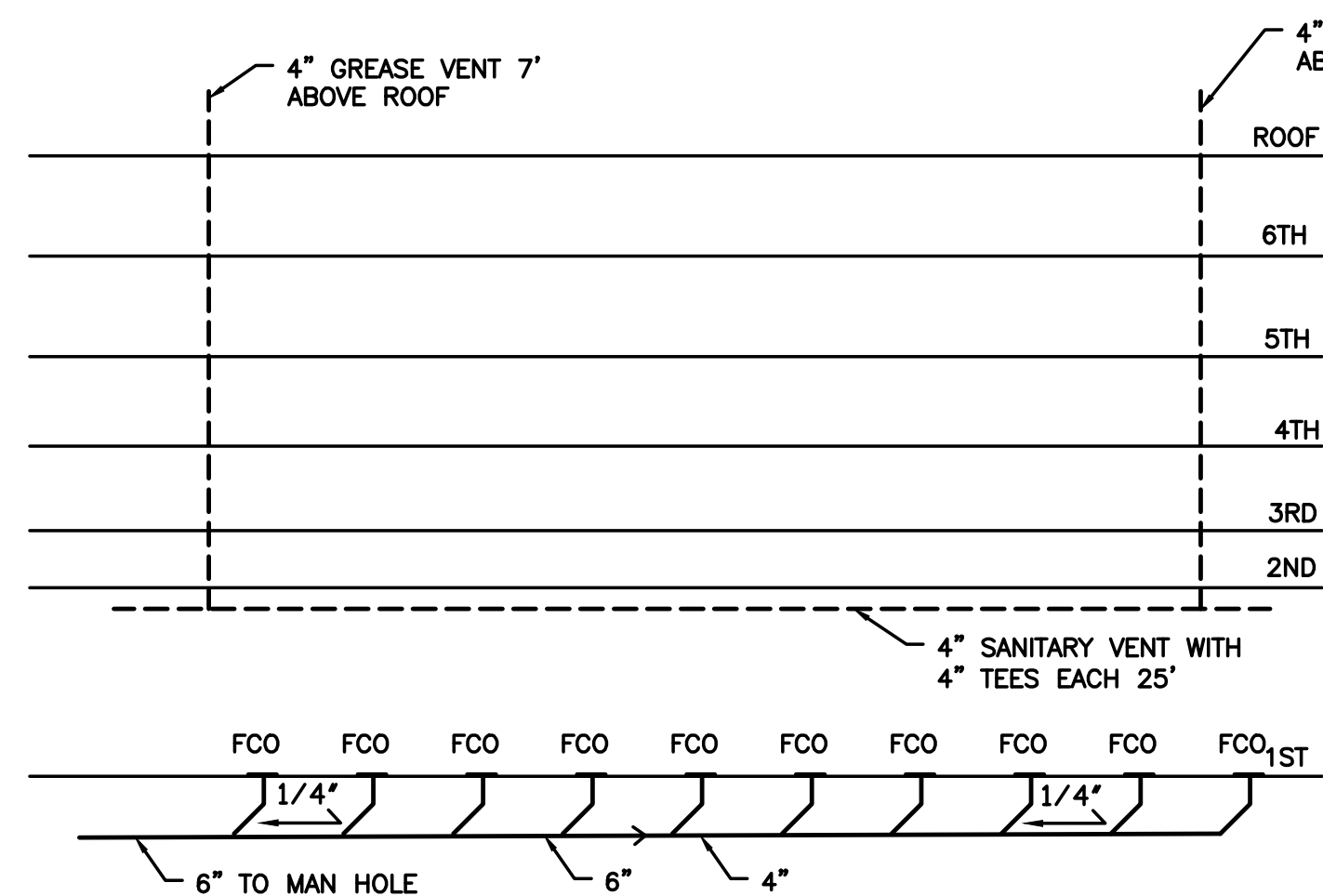
BUILDING 2 1ST LEVEL GREASE WASTE RISER  
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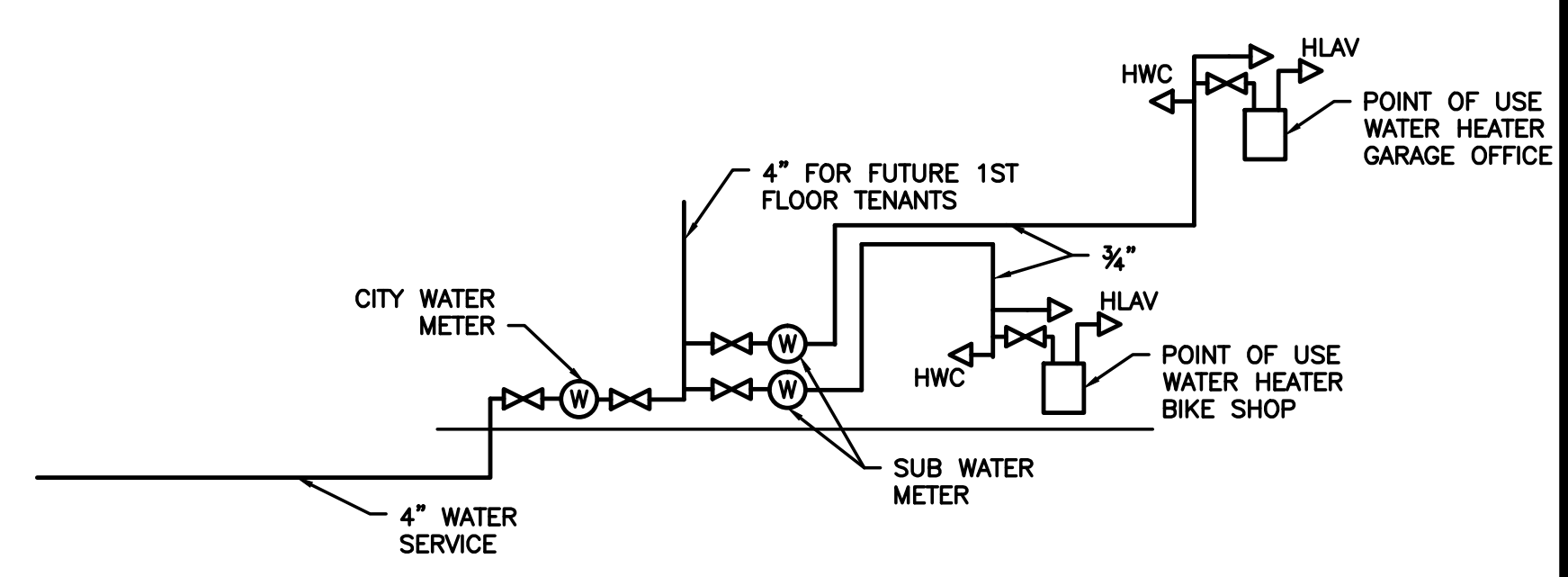
BUILDING 2 INTERIOR GARAGE DRAIN RISER  
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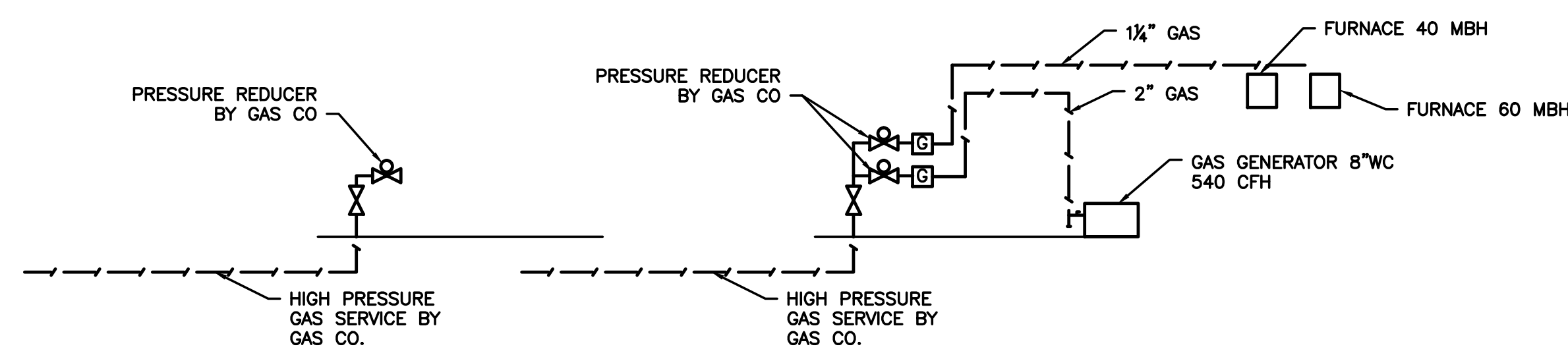
BUILDING 2 ROOF DRAIN RISER  
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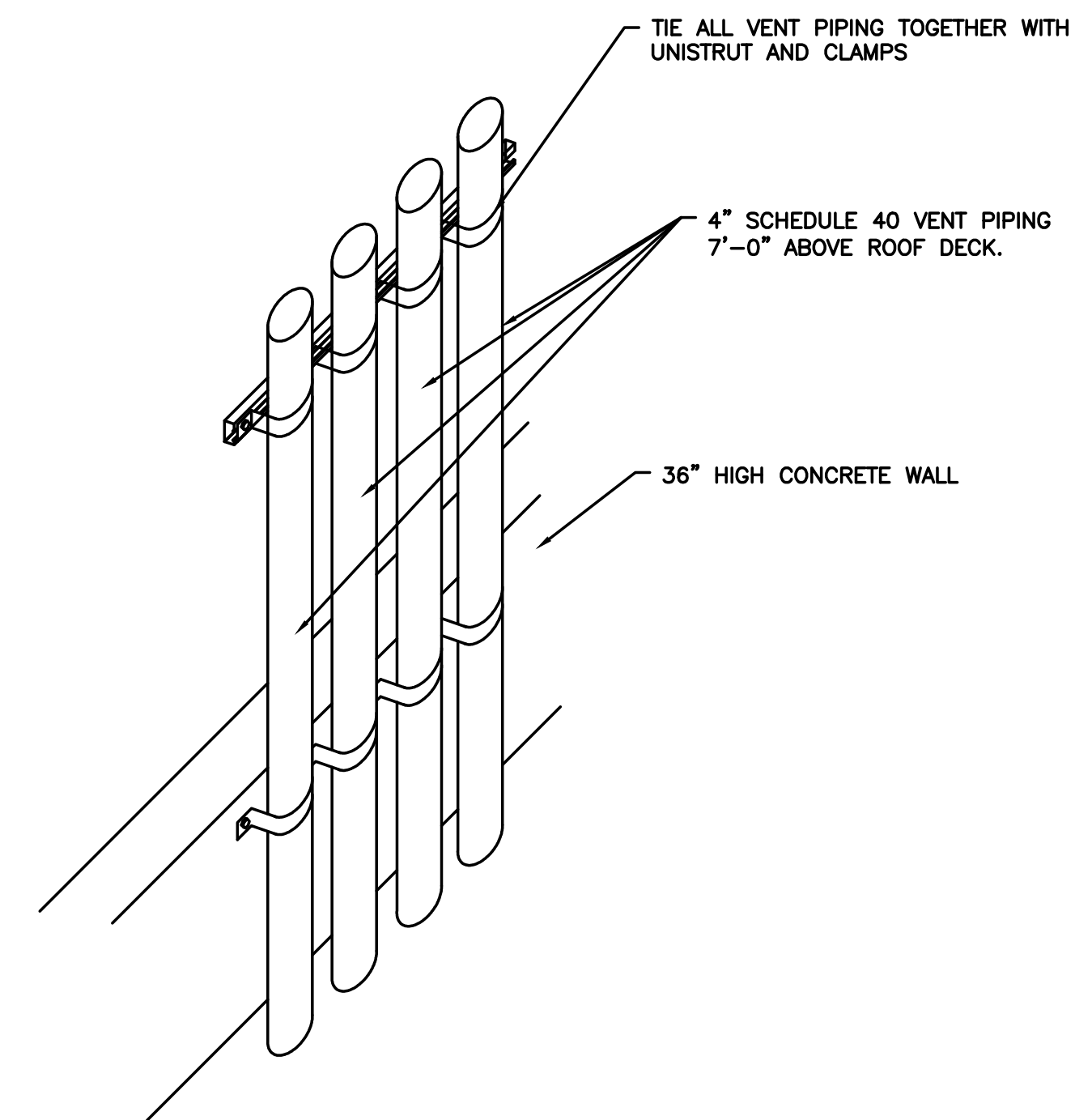
BUILDING 2 1ST LEVEL SANITARY WASTE RISER  
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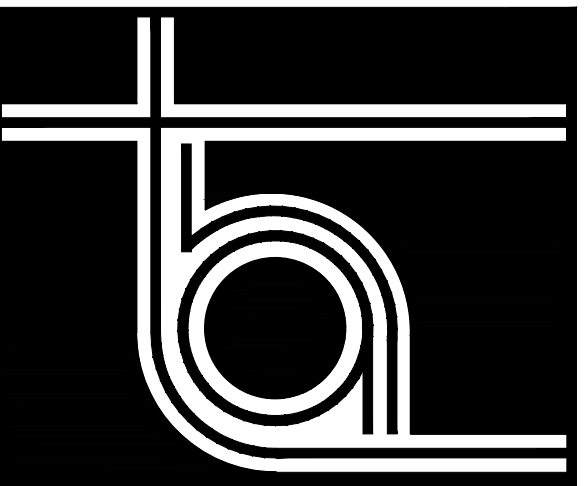
BUILDING 2 WATER PIPING  
N.T.S.



BUILDING 2 GAS PIPING  
N.T.S.



BUILDING 2 ROOF VENT PIPING DETAIL  
N.T.S.



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midtown Portland

Somerset Street  
Elm Street  
Portland, ME

Building 2  
PLUMBING  
RISER DIAGRAM  
& DETAILS

Structural Engineer  
Becker Engineering  
MEP ENGINEER  
McCabe Associates  
FP Engineer  
McCabe Associates

SCALE: 1/16" = 1'-0"

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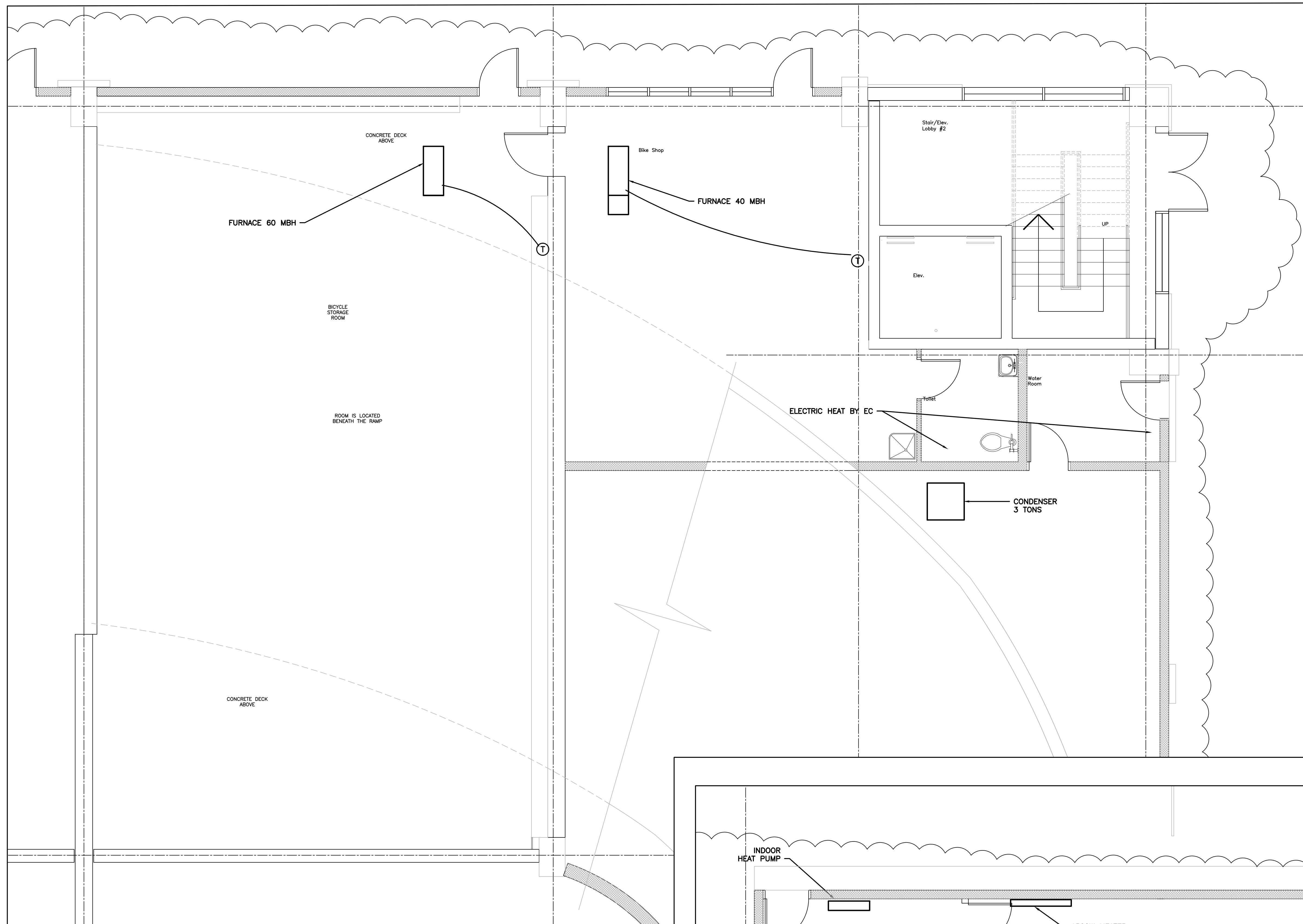
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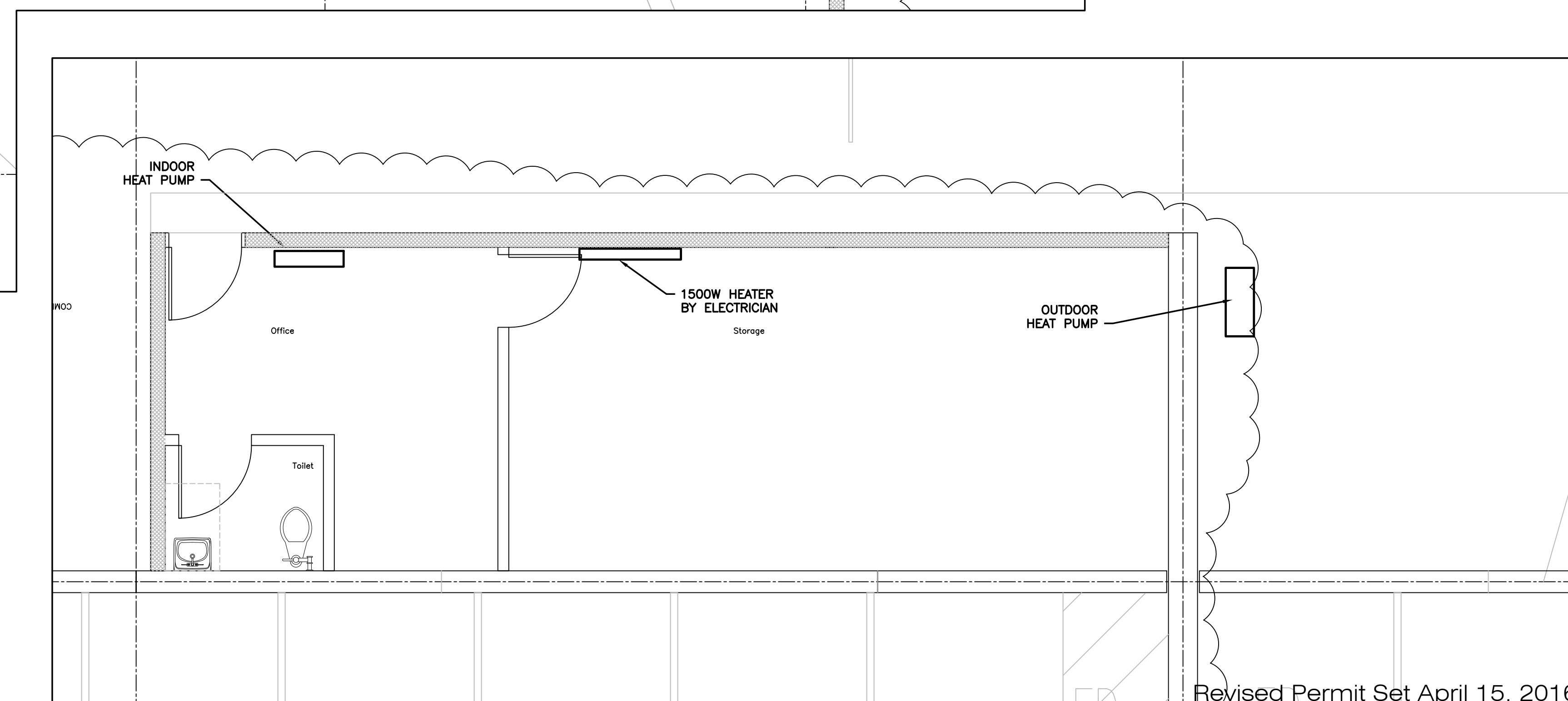
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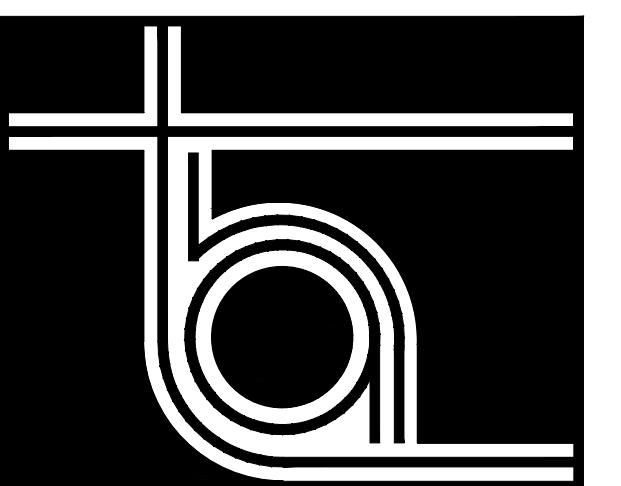
OFFICE PLAN

**HVAC SPECIFICATIONS**

1. THIS CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE OPERATING HEAT PUMP SYSTEM FOR THE OFFICE.
2. THE SYSTEM SHALL BE RATED TO PROVIDE 12,000 BTU OF COOLING AND 13,600 BTU OF HEATING WITH OUTDOOR TEMPERATURE AT 5 DEGREES F.
3. THE INDOOR UNIT SHALL BE HAIER MODEL AW12EH2VHA. MOUNTED ON THE WALL.
4. THE OUTDOOR UNIT SHALL BE HAIER MODEL 1U12EH2VHA MOUNTED IN THE OPEN AREA OUTSIDE THE OFFICE.
5. RUN CONDENSATE OUTSIDE THE BUILDING. PROVIDE PUMP AS REQUIRED.
6. PROVIDE ALL REQUIRED HANGERS AND SUPPORTS.
7. PROVIDE FURNACES FOR BOTH THE BIKE STORAGE AND SHOP AREA. STORAGE SHALL BE MINIMUM 60 MBH GAS HEATING INPUT AND 40 MBH GAS HEATING INPUT FOR BIKE SHOP. FURNACE SHALL BE CONDENSING TYPE WITH PVC VENTING. PROVIDE 80 CFM OF OUTSIDE AIR FOR BIKE SHOP AND 60 CFM FOR BIKE STORAGE.
8. THE BIKE SHOP SHALL HAVE A 3 TON SPLIT SYSTEM TO PROVIDE COOLING.



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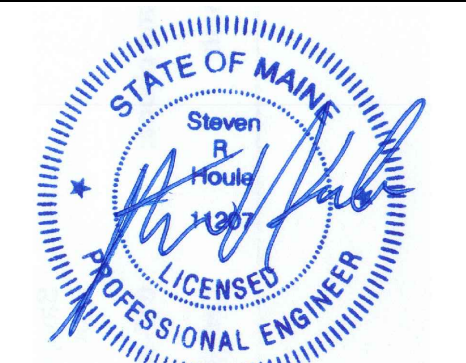
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midtown Portland

Somerset Street  
 Elm Street  
 Portland, ME

**Building 2  
 HVAC  
 Specifications  
 And Plan**

Structural Engineer  
 Becker Engineering  
 MEP ENGINEER  
 McCabe Associates  
 FP Engineer  
 McCabe Associates

SCALE: 1/4"=1'-0"

ISSUED / DRAWN BY \_\_\_\_\_  
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