

SECTION 00 9112 - ADDENDUM NUMBER 2

PARTICULARS

1.01 DATE: NOVEMBER 30, 2017

1.02 PROJECT: USC BARRINGER HOUSE MECHANICAL RENOVATION

1.03 OWNER'S PROJECT NUMBER: H27-Z335

1.04 OWNER : THE UNIVERSITY OF SOUTH CAROLINA

1.05 ARCHITECT: GMK ASSOCIATES, INC.

TO: PROSPECTIVE BIDDERS :

2.01 THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND MODIFIES THE ORIGINAL PROCUREMENT DOCUMENTS DATED OCTOBER 25, 2017, AND ADDENDUM NUMBER 1 ISSUED NOVEMBER 28, 2017 , WITH AMENDMENTS AND ADDITIONS NOTED BELOW.

2.02 ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED IN THE BID FORM . FAILURE TO DO SO MAY DISQUALIFY THE BIDDER.

2.03 THIS ADDENDUM CONSISTS OF 2 PAGES AND THE FOLLOWING ATTACHMENTS:

- A. Drawing A6.0
- B. Drawing A8.0
- C. Drawing P0.0
- D. Drawing P1.0.1
- E. Drawing P2.0.1
- F. Drawing P3.0.1
- G. Drawing M1.0
- H. Drawing M1.1
- I. Drawing M1.2
- J. Drawing M2.0
- K. Drawing M2.1
- L. Drawing M2.2
- M. Drawing M7.1

CHANGES TO THE DRAWINGS/PROJECT MANUAL:

3.01 DRAWING A6.0 - ENLARGED PLANS AND INTERIOR ELEVATIONS

- A. Replace the existing drawing A6.0 in its entirety with the revised attached drawing A6.0.
 - 1. Doors were revised to match the door schedule.

3.02 DRAWING A8.0 - DOOR SCHEDULE, DOOR AND FRAME TYPES

- A. Replace the existing drawing A8.0 in its entirety with the revised attached drawing A8.0.
 - 1. Door sizes were revised.

3.03 DRAWING P0.0 - PLUMBING DETAILS, GENERAL NOTES, PLUMBING LEGEND & ABBREVIATIONS

- A. Replace the existing drawing P0.0 in its entirety with the revised attached drawing P0.0.
 - 1. The Owner will construct the domestic water line to within 5'-0" of the building foundation wall. The Contractor is to connect to the Owner supplied domestic water line at 5'-0" outside of the building as indicated.

3.04 DRAWING P1.0.1 - PLUMBING DEMOLITION BELOW BASEMENT FLOOR PLAN

- A. Replace the existing drawing P1.0.1 in its entirety with the revised attached drawing P1.0.1.

1. The Owner will construct the domestic water line to within 5'-0" of the building foundation wall. The Contractor is to connect to the Owner supplied domestic water line at 5'-0" outside of the building as indicated.

3.05 DRAWING P2.0.1 - PLUMBING WASTE & VENT PIPING BELOW BASEMENT FLOOR PLAN

- A. Replace the existing drawing P2.0.1 in its entirety with the revised attached drawing P2.0.1.
 1. The Owner will construct the domestic water line to within 5'-0" of the building foundation wall. The Contractor is to connect to the Owner supplied domestic water line at 5'-0" outside of the building as indicated.

3.06 DRAWING P3.0.1 - PLUMBING DOMESTIC WATER PIPING BELOW BASEMENT FLOOR PLAN

- A. Replace the existing drawing P3.0.1 in its entirety with the revised attached drawing P3.0.1.
 1. The Owner will construct the domestic water line to within 5'-0" of the building foundation wall. The Contractor is to connect to the Owner supplied domestic water line at 5'-0" outside of the building as indicated.

3.07 DRAWING M1.0 - HVAC DEMOLITION BASEMENT PLAN

- A. Replace the existing drawing M1.0 in its entirety with the revised attached drawing M1.0.
 1. Revisions to the demolition, ductwork and diffusers are indicated.

3.08 DRAWING M1.1 - HVAC DEMOLITION FIRST FLOOR PLAN

- A. Replace the existing drawing M1.1 in its entirety with the revised attached drawing M1.1.
 1. Revisions to the demolition, ductwork and diffusers are indicated.

3.09 DRAWING M1.2 - HVAC DEMOLITION SECOND FLOOR PLAN

- A. Replace the existing drawing M1.2 in its entirety with the revised attached drawing M1.2.
 1. Revisions to the demolition, ductwork and diffusers are indicated.

3.10 DRAWING M2.0 - HVAC RENOVATION BASEMENT PLAN

- A. Replace the existing drawing M2.0 in its entirety with the revised attached drawing M2.0.
 1. Revisions to the demolition, ductwork and diffusers are indicated.

3.11 DRAWING M2.1 - HVAC RENOVATION FIRST FLOOR PLAN

- A. Replace the existing drawing M2.1 in its entirety with the revised attached drawing M2.1.
 1. Revisions to the demolition, ductwork and diffusers are indicated.

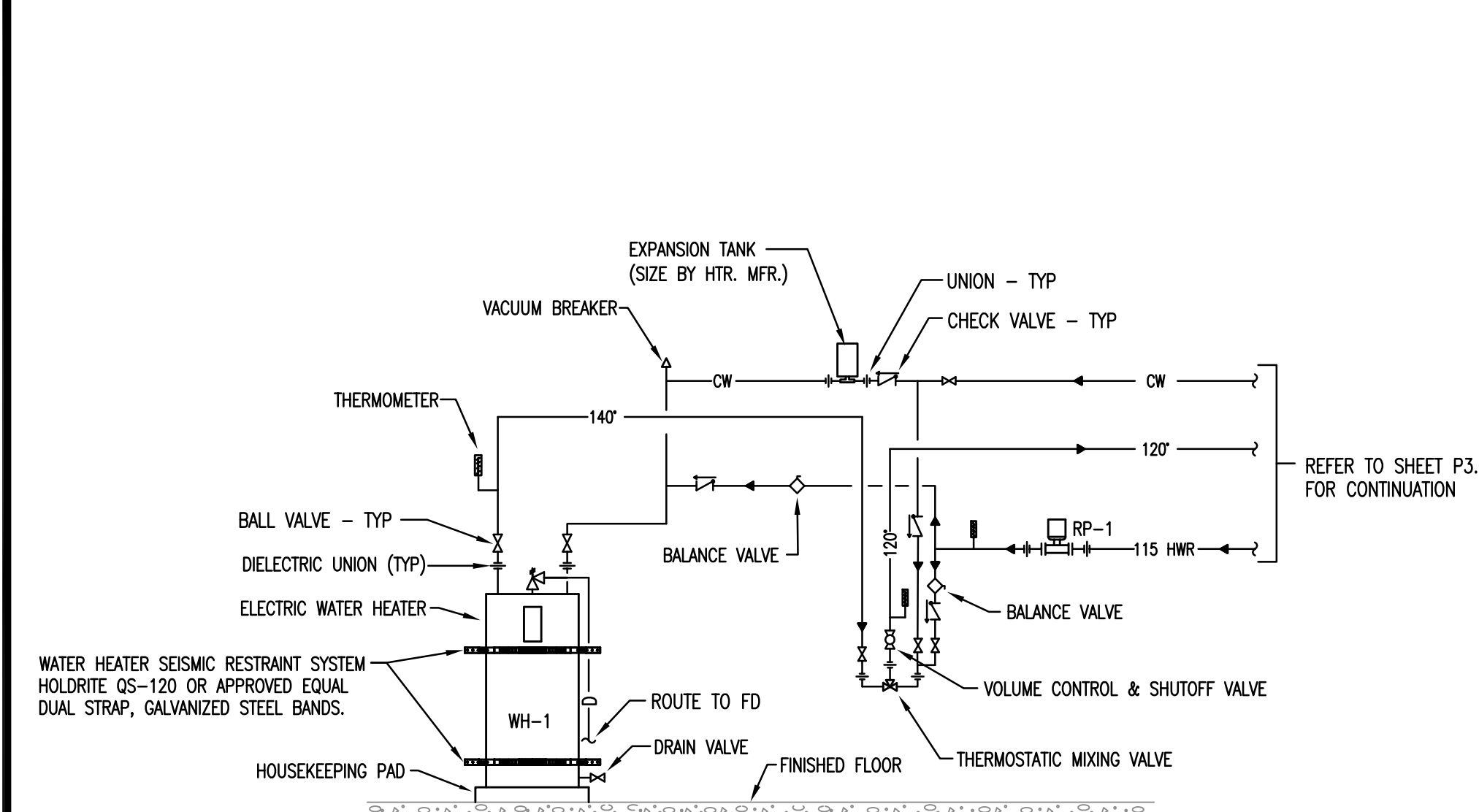
3.12 DRAWING M2.2 - HVAC RENOVATION SECOND FLOOR PLAN

- A. Replace the existing drawing M2.2 in its entirety with the revised attached drawing M2.2.
 1. Revisions to the demolition, ductwork and diffusers are indicated.

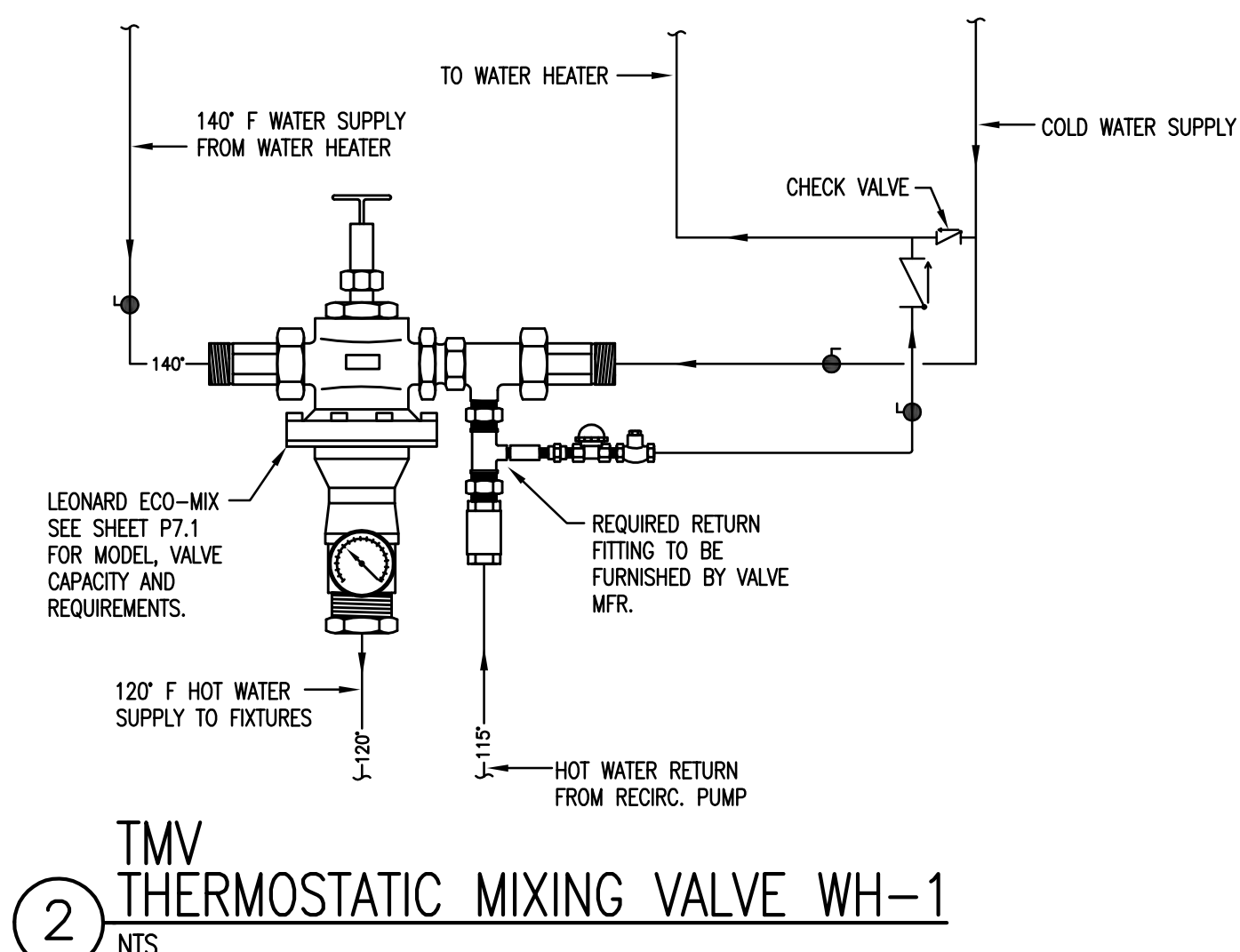
3.13 DRAWING M7.1 - HVAC NOTES & SCHEDULES

- A. Replace the existing drawing M7.1 in its entirety with the revised attached drawing M7.1.
 1. Revisions to the demolition, ductwork and diffusers are indicated.

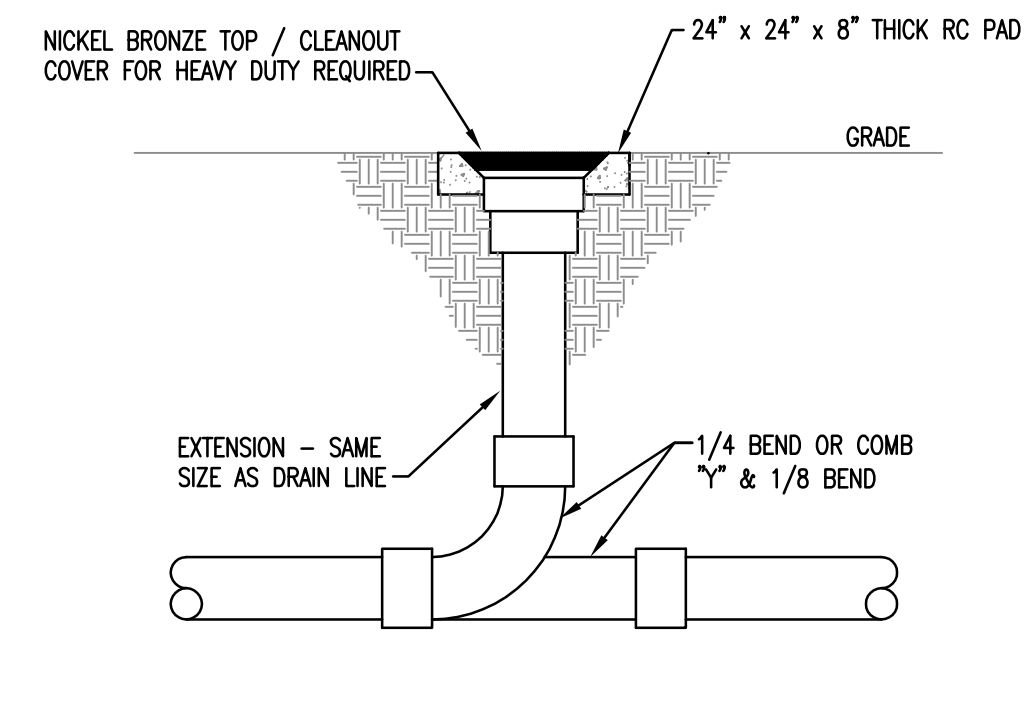
END OF ADDENDUM NUMBER 2



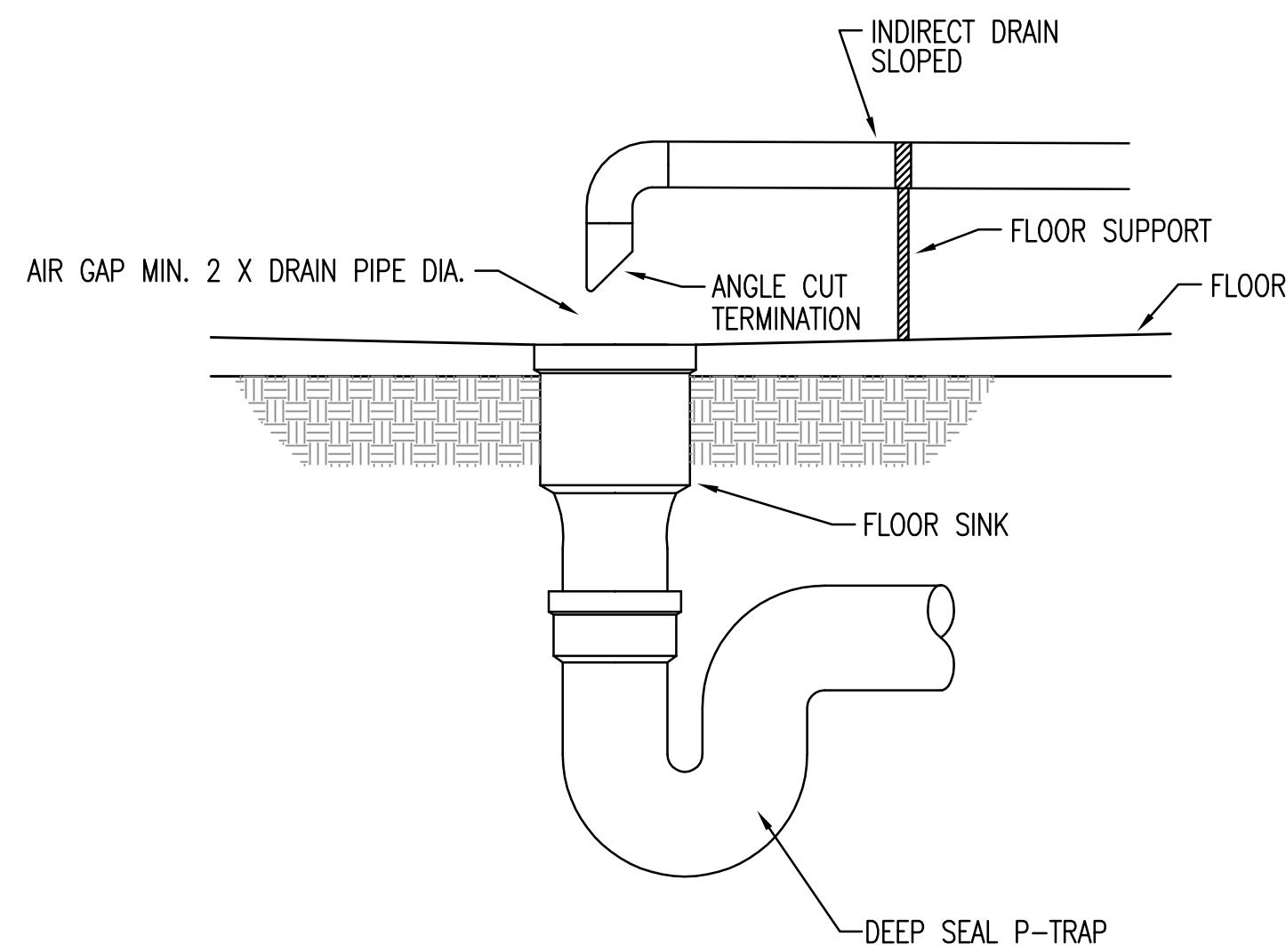
1 ELECTRIC WATER HEATER DETAIL
NTS
NOTE: INSTALL MIXING VALVE AS PER MFR'S INSTRUCTIONS.



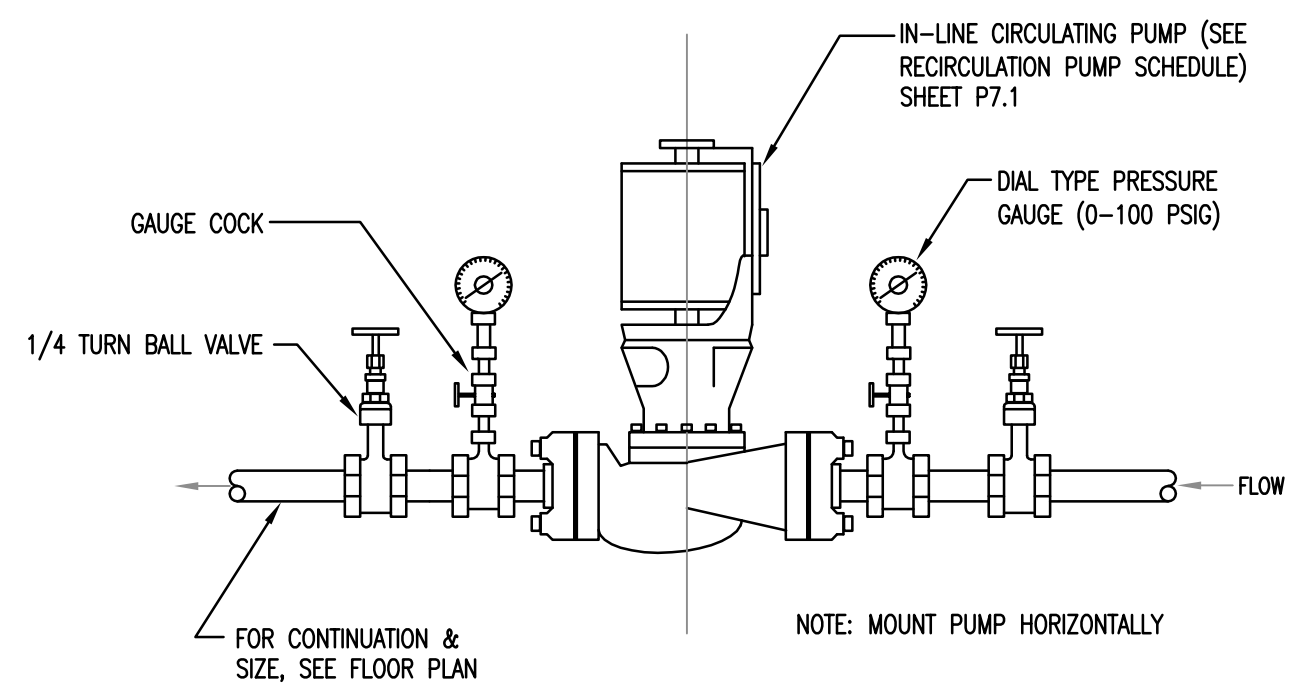
2 TMV THERMOSTATIC MIXING VALVE WH-1
NTS



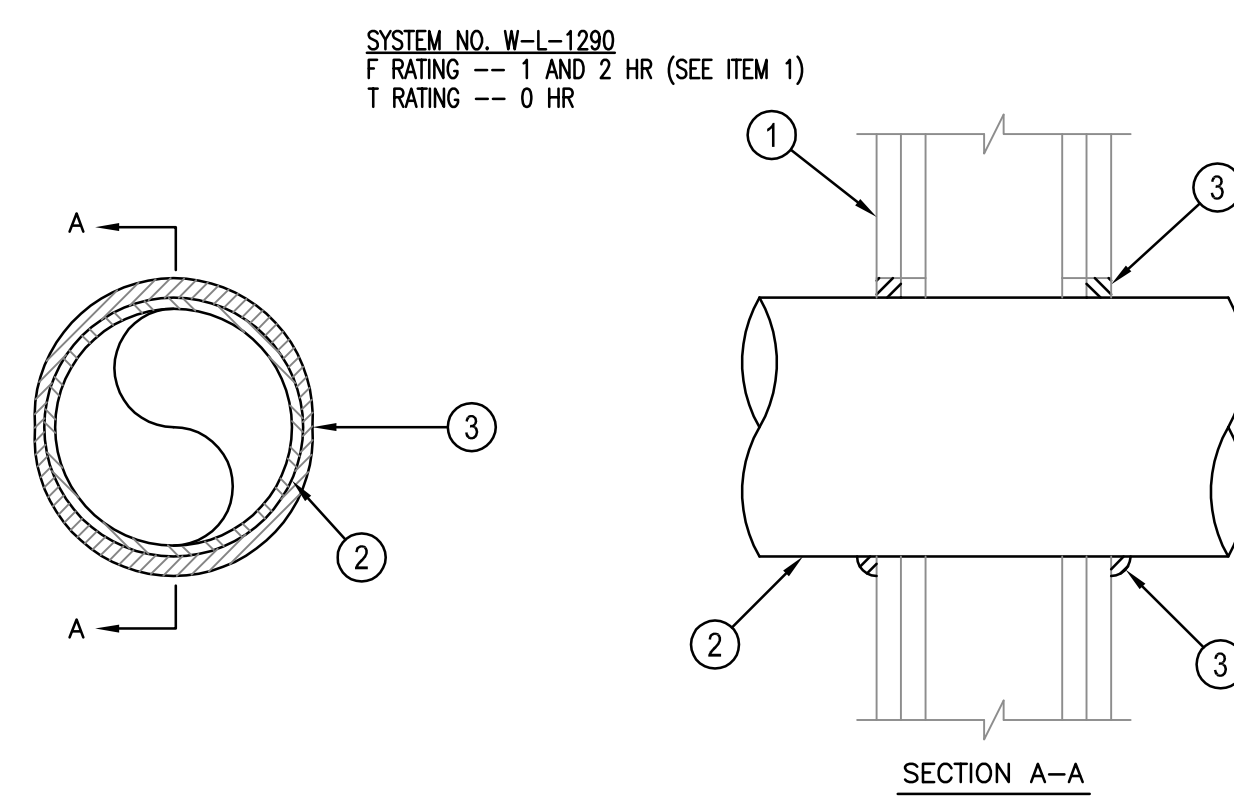
3 CLEANOUT TO GRADE DETAIL
NTS



5 INDIRECT DRAIN AIR GAP DETAIL
NTS

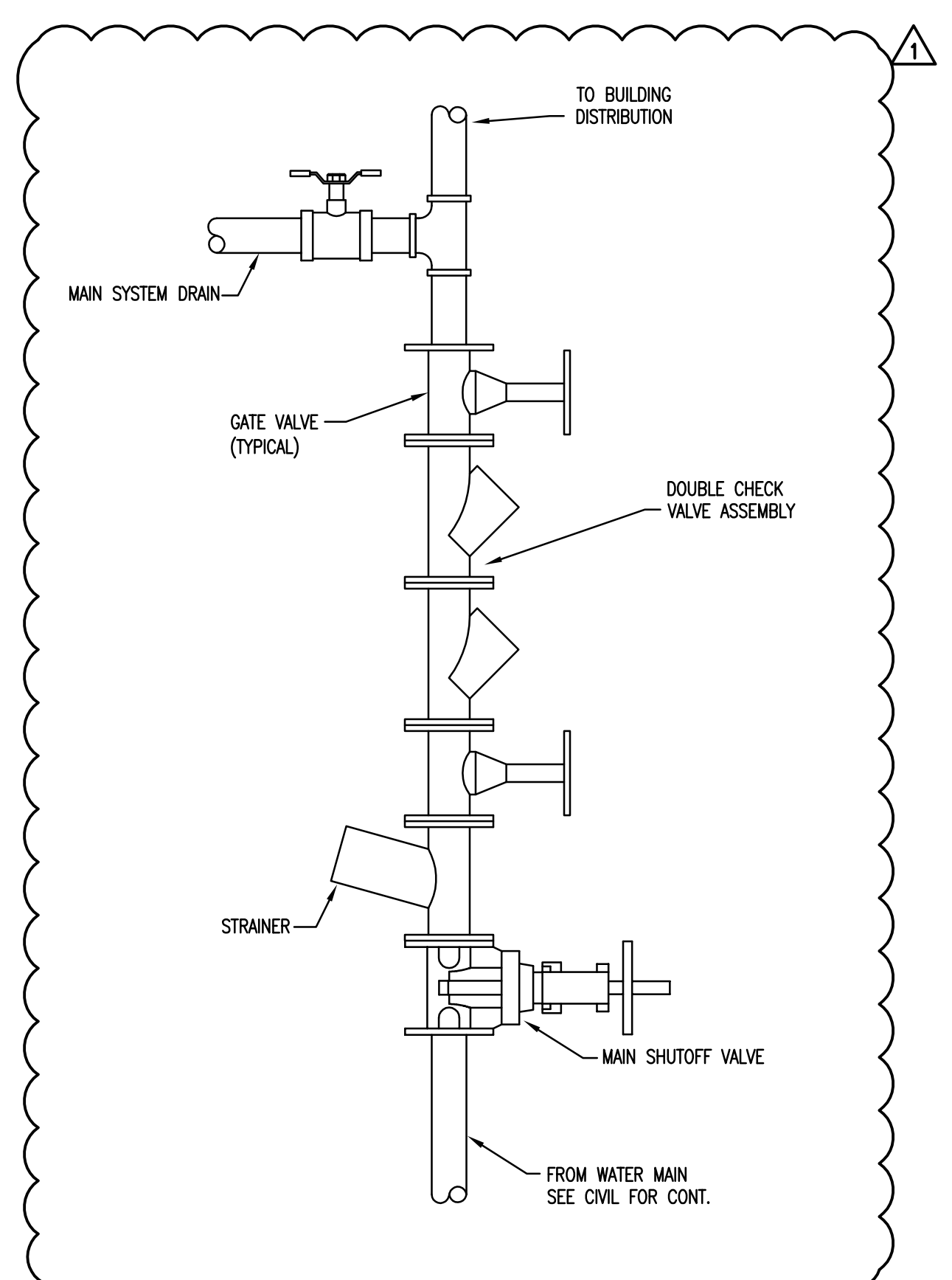


4 RECIRCULATING PUMP DETAIL
NTS

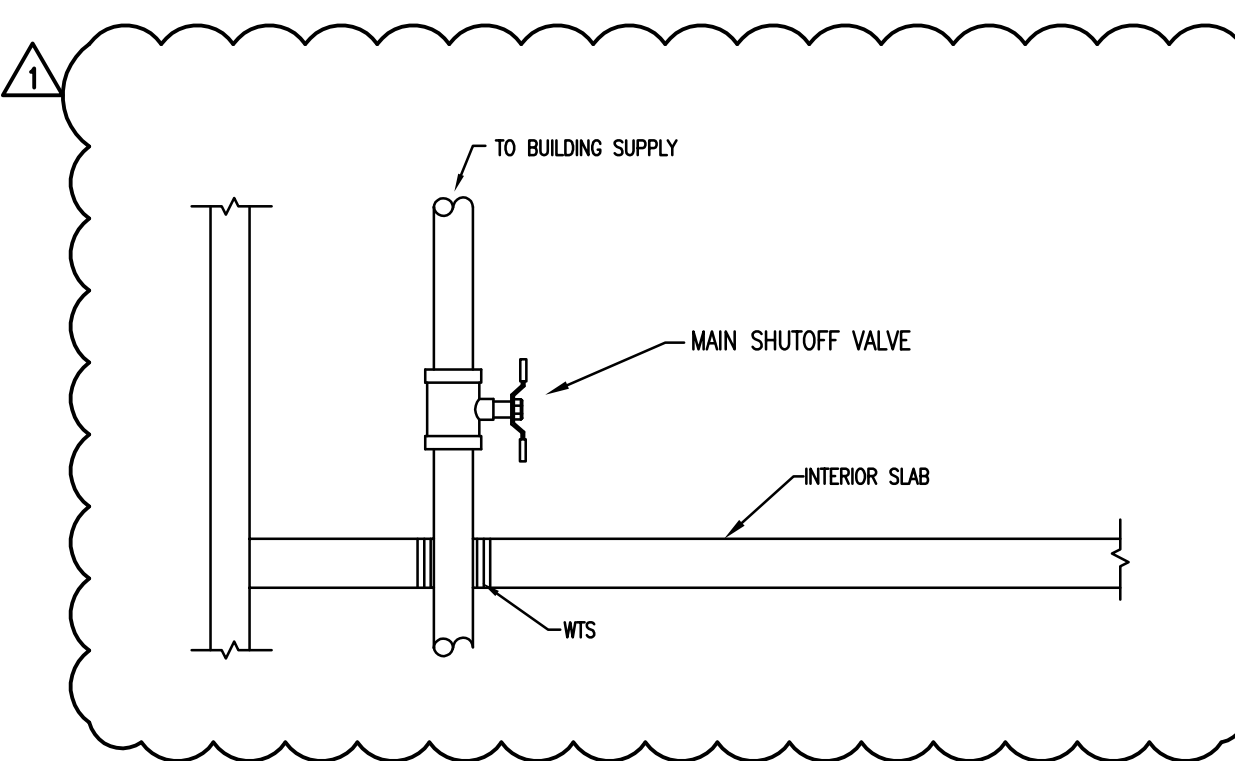


- WALL ASSEMBLY --- THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES.
 - STUDS --- REFER TO ARCH DETAILS FOR TYPE & CONSTRUCTION.
 - GYPSUM BOARD --- REFER TO ARCH DETAILS FOR TYPE & CONSTRUCTION. MAX DIAM OF OPENING IS 5 IN. (THE HOURLY F & T RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.)
- THROUGH PENETRANT --- ONE METALLIC PIPE OR TUBING INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM, PIPE OR TUBING MUST BE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGREES FROM PERPENDICULAR. PIPE OR TUBE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE ANNULAR SPACE BETWEEN THE PIPE OR TUBE & PERIPHERY OF THE OPENING SHALL BE MIN 0 IN (POINT CONTACT) TO MAX 1/2 IN. THE FOLLOWING TYPES & SIZES OF METALLIC PIPES MAY BE USED.
 - IRON PIPE --- NOM 4 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 - COPPER PIPE --- SHALL FOLLOW WL-1243 SYSTEM.
- FILL VOID OR CAVITY MATERIAL --- SEALANT --- MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS. FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE & WALL, A MIN 3/8 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE/WALL INTERFACE. *BEARING THE UL CLASSIFICATION MARK

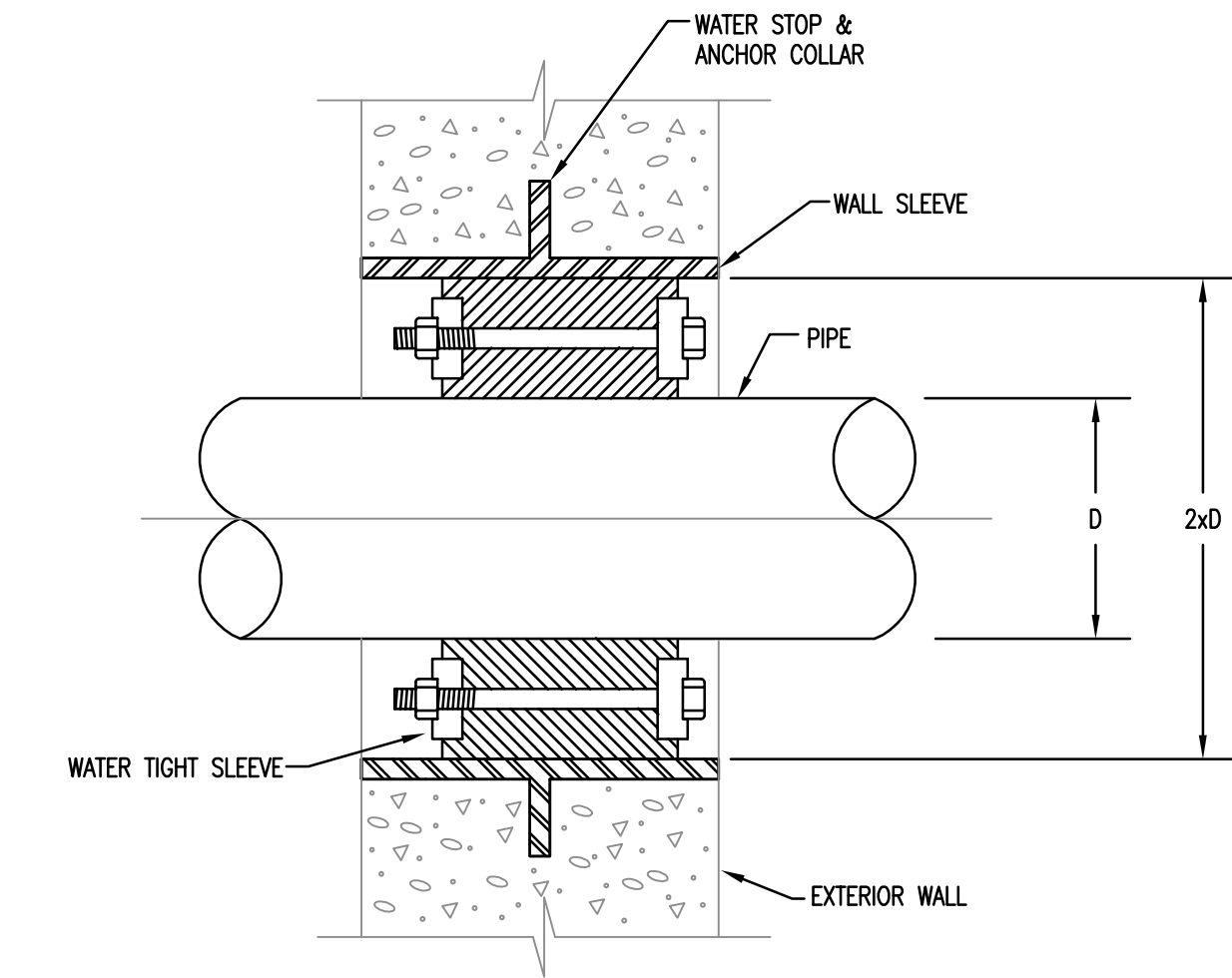
6 FIRE STOPPING DETAIL - METALLIC PIPE
NTS



7 DOUBLE CHECK VALVE BACKFLOW PREVENTER DETAIL
NTS



8 DOMESTIC WATER ENTRANCE DETAIL
NTS



9 EXTERIOR PIPE PENETRATION DETAIL
NTS

PLUMBING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
---	COLD WATER LINE - NEW (CW)	↘/↙	PIPE DOWN OR DROP (DN OR DROP)
---CW---	COLD WATER LINE - EXISTING (CW)	○	PIPE UP
---CW---	COLD WATER LINE - DEMO (CW)	↔	PIPE BREAK OR CONTINUATION
---HW---	HOT WATER LINE - NEW (HW)	⊚	P-TRAP
---HW---	HOT WATER LINE - EXISTING (HW)	⊔	END CAP
---HW---	HOT WATER LINE - DEMO (HW)	--- ---	UNION
---HWR---	HOT WATER RECIRCULATING LINE - NEW (HWR)	CO ---	IN-LINE CLEANOUT
---SAN---	SANITARY WASTE LINE - NEW (W)	⌉ SA-A	SHOCK ABSORBER & TYPE
---SAN---	SANITARY WASTE LINE - EXISTING (W)	○	BALL VALVE
---SAN---	SANITARY WASTE LINE - DEMO (W)	⊕	POINT OF CONNECTION - NEW TO EXISTING
---SANV---	SANITARY VENT LINE - NEW (V)		AREA TO BE DEMOLISHED
---SANV---	SANITARY VENT LINE - EXISTING (V)		
---SANV---	SANITARY VENT LINE - DEMO (V)		

ABBREVIATIONS *

ABV	Above	NC	Normally Closed
AD	Access Door	NIC	Not in Contract
AFF	Above Finished Floor	NO	Normally Open
BFP	Backflow Preventer	NPT	National Pipe Thread
CA	Compressed Air	NTS	Not To Scale
CI	Cast Iron	OFST	Over Flow Storm Drain
COL	Column Line	Ox	Oxygen
CONN	Connection	P-#	Pump - No.
OW	Cold Water	PRV	Pressure Reducing Valve
DI	Drain	PSI	Pounds Per Square Inch
DN	Down	RD	Roof Drain
ELEV	Elevation	SA	Shock Absorber
ET	Expansion Tank	SH-#	Shower
EW-C-#	Electric Water Cooler	SK-#	Sink
FD	Floor Drain	SS	Stainless Steel
FL	Floor	ST	Storm Drain
FT	Feet	STD	Standard
GPH	Gallons Per Hour	TEMP	Temperature
GPM	Gallons Per Minute	TOS	Top of Steel
HW	Hot Water	TYP	Typical
HWR	Hot Water Return	U-#	Urinal
I-E	Invert Elevation	VAC	Vacuum
L-#	Laboratory	VB	Vacuum Breaker
MA	Medical Air	V	Sanitary Vent
MAX	Maximum	VR	Vent Thru Roof
MIN	Minimum	W	Sanitary Waste
MFT	Male Pipe Thread	WB-#	Wall Box
MSB-#	Map Sink Basin	WC-#	Water Closet
N/A	Not Applicable		

* Not All Abbreviations Used

PLUMBING GENERAL NOTES

- VERIFY EXACT LOCATION OF ALL PLUMBING FIXTURES IN OR ATTACHED TO CASEWORK WITH THE ARCHITECT AND THE MILLWORK SHOP DRAWINGS. COORDINATE PRIOR TO INSTALLATION.
- CONFIRM OR VERIFY EXACT LOCATION AND ACTUAL INVERT OF SANITARY LINES PRIOR TO INSTALLATION.
- DUE TO THE LARGE QUANTITY OF PIPING, DUCTWORK, CONDUIT, ETC. OVERHEAD, COORDINATION WITH OTHER DISCIPLINES IS MANDATORY.
- LOCATE SHUT-OFF VALVES ABOVE CEILINGS AND IN LOCATIONS ACCESSIBLE FOR SERVICE. LOCATION SHALL COMPLY WITH THE REQUIREMENTS OF ALL CODES REFERENCED HEREIN. PROVIDE CEILING MARKERS FOR LOCATION IDENTIFICATION.
- ALL SANITARY DRAINAGE PIPING 3" AND LARGER SHALL SLOPE 1/8" PER FOOT UNLESS NOTED OTHERWISE. ALL SANITARY DRAINAGE PIPING 2-1/2" AND SMALLER SHALL SLOPE 1/4" PER FOOT UNLESS NOTED OTHERWISE.
- REFERENCE PLUMBING FIXTURE CONNECTION SCHEDULE ON SHEET P7.1 FOR LINE SIZES NOT SHOWN TO FIXTURES/EQUIPMENT.
- ALL CLEANOUTS AND FLOOR DRAINS SHALL BE INSTALLED PLUMB AND LEVEL WITH FINISHED FLOOR ELEVATION.
- CONTRACTOR SHALL PROVIDE HANGERS AND SUPPORTS FOR SEISMIC RESTRAINT PER THE INTERNATIONAL BUILDING CODE. SEISMIC REPORT REQUIRED BY SEISMIC ENGINEER.
- ALL DRAINAGE PIPING AND PRESSURE SYSTEM PIPING SHALL BE RUN AS HIGH AS POSSIBLE TO BOTTOM OF STRUCTURE, UNLESS NOTED OTHERWISE. COORDINATE PIPE ROUTING WITH ALL OTHER TRADES.
- THE FOLLOWING PLUMBING SYSTEMS SHALL BE INSULATED: COLD WATER, HOT WATER, HOT WATER RECIRCULATION, P-TRAPS AND HORIZONTAL PIPING RECEIVING CONDENSATE ABOVE CEILINGS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE.
- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT SHOW EXACT LOCATIONS OF FIXTURES AND EQUIPMENT. ALL OFFSETS AND FITTINGS FOR COMPLETE INSTALLATION MAY NOT BE DEFINED ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT DIMENSIONS AT THE BUILDING AND ANY NECESSARY CHANGES MADE IN ACCORDANCE WITH STRUCTURAL CONDITIONS. EQUIPMENT TO BE INSTALLED AND COORDINATION WITH OTHER SYSTEMS. IF CONFLICTS CANNOT BE RESOLVED THEY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER.
- CONTRACTOR SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS INsofar AS THEY APPLY: NFPA 99, 2015 IBC, PLUMBING AND MECHANICAL CODES.
- CONTRACTOR SHALL SECURE ALL PERMITS, INSPECTIONS, LICENSES AND TESTS REQUIRED FOR THIS WORK AND PAY ALL FEES IN CONNECTION THEREWITH.
- ALL MATERIALS SHALL BEAR THE MANUFACTURER'S NAME, TRADE NAME AND BE U.L. LABELED IF REQUIRED BY CODE. UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. ALL EQUIPMENT OF A SIMILAR TYPE SHALL BE OF THE SAME MANUFACTURER.
- CONTRACTOR SHALL LOCATE AND SIZE ALL OPENINGS REQUIRED FOR PLUMBING EQUIPMENT AND PIPING, AND PROVIDE THIS INFORMATION TO THE GENERAL CONTRACTOR IN TIME NOT TO DELAY BUILDING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE AND LOCATE SLEEVES AND INSERTS BEFORE THE FLOOR AND WALLS ARE BUILT OR SHALL BE RESPONSIBLE FOR THE COST OF CUTTING AND PATCHING REQUIRED FOR PIPES WHERE SLEEVES AND INSERTS WERE NOT INSTALLED OR WHERE THEY WERE INCORRECTLY LOCATED.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR OR OF THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF THE CONTRACTOR. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR TO PERFORM THE CONSTRUCTION WORK IN ACCORDANCE WITH THE DRAWINGS.
- ALL WALL HUNG FIXTURES AND FLOOR MOUNTED MOP SINKS SHALL BE SEALED BETWEEN WALL AND FIXTURES WITH WHITE SILICONE CAULKING.
- ALL COUNTER MOUNTED FIXTURE RIMS SHALL BE SEALED WITH SILICONE CAULKING.
- LOCATE FLOOR CLEANOUTS PAST LIMITS OF THE CASEWORK.
- CONTRACTOR SHALL MAKE PROVISIONS FOR EXPANSION LOOPS WHERE NECESSARY WHETHER OR NOT SHOWN ON DRAWINGS.
- OFFSET PLUMBING VENTS AND WATER PIPING AS NECESSARY TO AVOID CONFLICTS WITH DUCTWORK. SEE HVAC PLANS.
- IT IS THE INTENT AND MEANING OF THE DRAWINGS TO PROVIDE COMPLETE AND OPERABLE PLUMBING AND DRAINAGE SYSTEMS.
- ALL PLUMBING LINE SIZE REDUCTIONS SHALL BE MADE WITH REDUCERS AND/OR REDUCING FITTINGS.
- NO DOUBLE WYE FITTINGS OR CONNECTIONS PERMITTED. MAKE ALL SANITARY CONNECTIONS WITH OFFSET FITTINGS.

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743 GREENE STREET
COLUMBIA, SOUTH CAROLINA 29208

project name
BARRINGER HOUSE MECHANICAL RENOVATION

State project number
PROJECT # H27Z335
G.M.K. project number
PROJECT # 16070.02

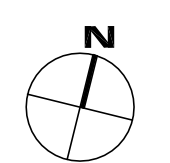
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CONSTRUCTION DOCUMENTS

date
10/25/2017

number	item	date
Δ	ADDENDUM NUMBER 2	11/29/17

key plan

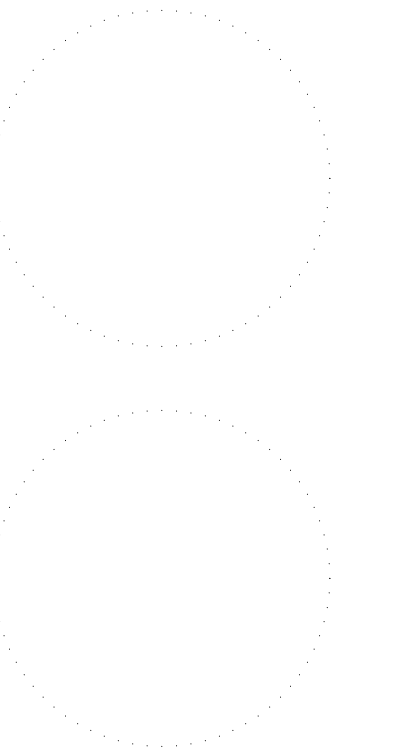


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PLUMBING DETAILS, GENERAL NOTES,
PLUMBING LEGEND & ABBREVIATIONS

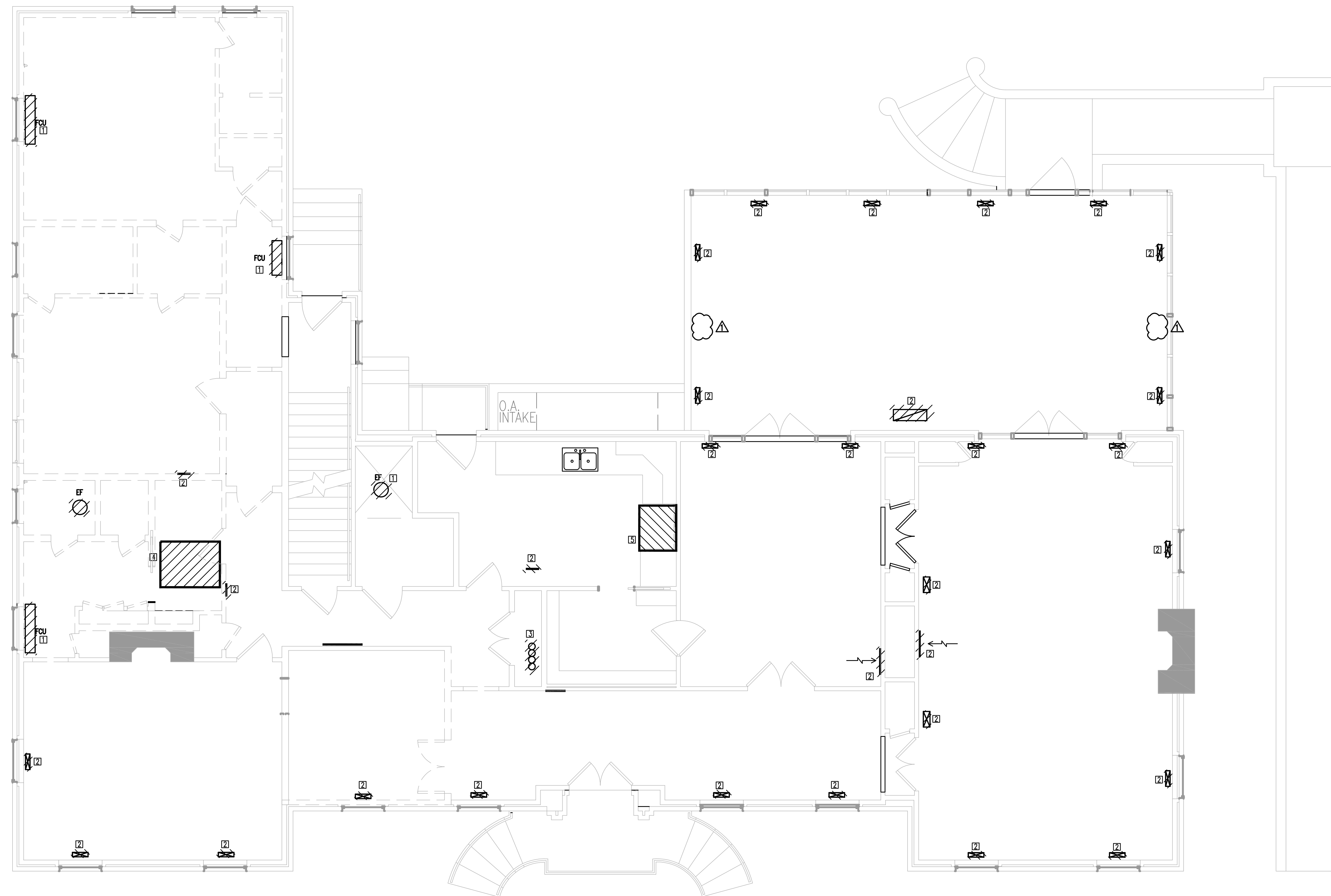
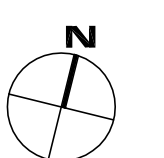
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P0.0

drawn by JOK
checked by JWB



number	item	date
△	ADDENDUM NUMBER 2	11/30/17



1 FIRST FLOOR LEVEL – HVAC DEMOLITION
1/4"=1'-0"

- DEMOLITION KEYNOTES:**
- 1 REMOVE EXISTING EQUIP., DUCTWORK AND PIPING. CONTRACTOR SHALL FIELD VERIFY EXTENT OF DEMOLITION PRIOR TO BIDDING.
 - 2 REMOVE EXISTING FLOOR OR WALL GRILLE
 - 3 REMOVE EXISTING PIPING IN CHASE FROM BASEMENT TO ATTIC AND PATCH OPENINGS. COORDINATE WITH ARCH.
 - 4 REMOVE VENTILATION FAN AND ALL APPURTENANCES LOCATED IN ATTIC.
 - 5 REMOVE KITCHEN HOOD, EXHAUST FAN AND ALL ASSOCIATED DUCTWORK. CAP AT TERMINATION TO OUTDOORS.

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743 GREENE STREET
COLUMBIA, SOUTH CAROLINA 29208

project name

**BARRINGER HOUSE MECHANICAL
RENOVATION**

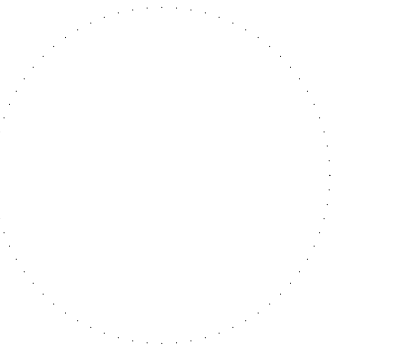
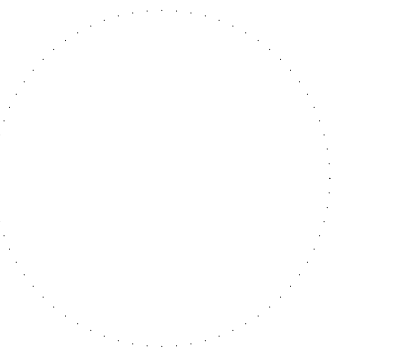
State project number

PROJECT # H27Z335

GMK project number

PROJECT # 16070.02

seals/signature

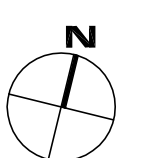


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date
10/25/2017

number	item	date
▲	ADDENDUM #1	11/30/17

key plan

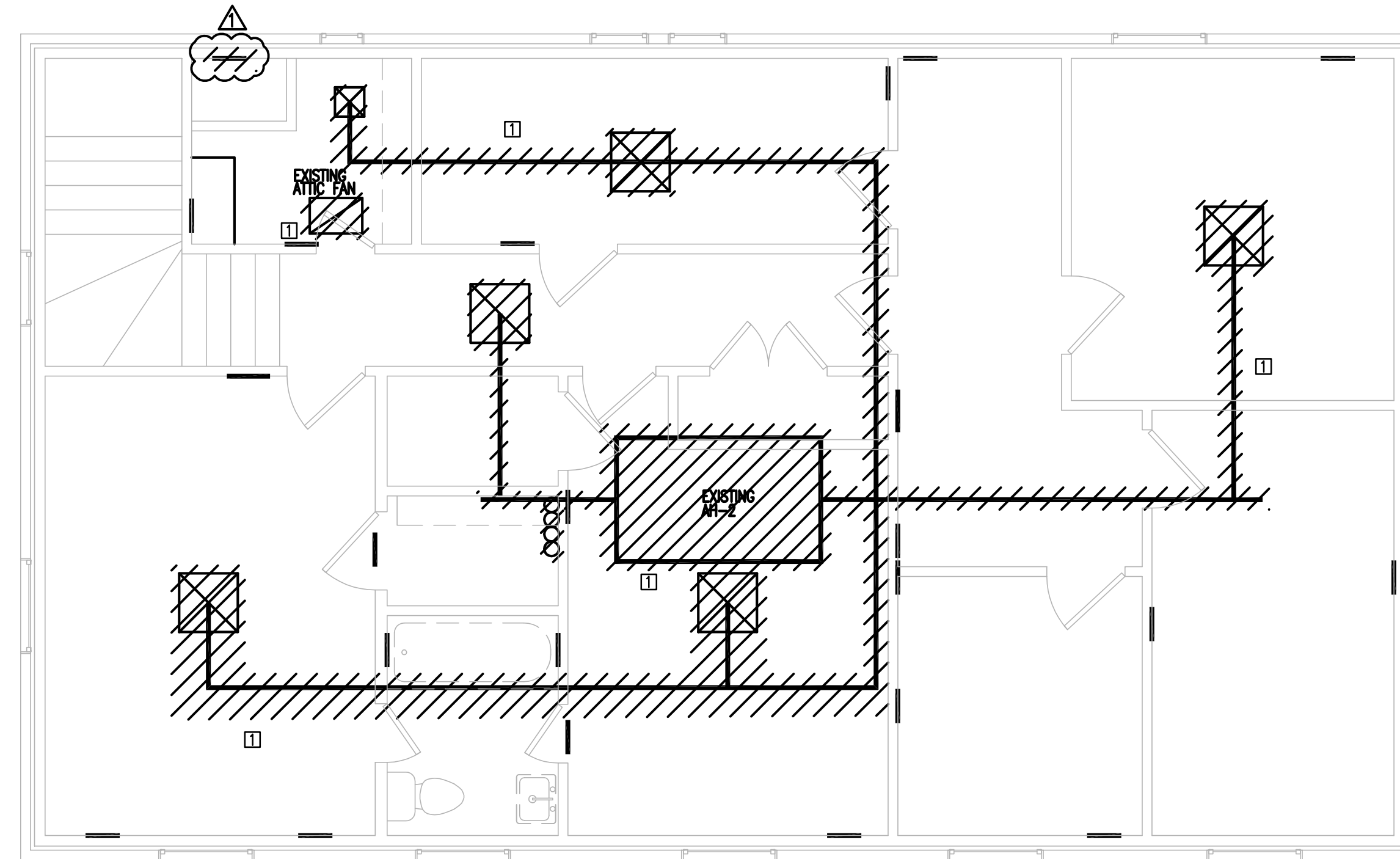


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**HVAC
DEMOLITION
SECOND FLOOR PLAN**

sheet number

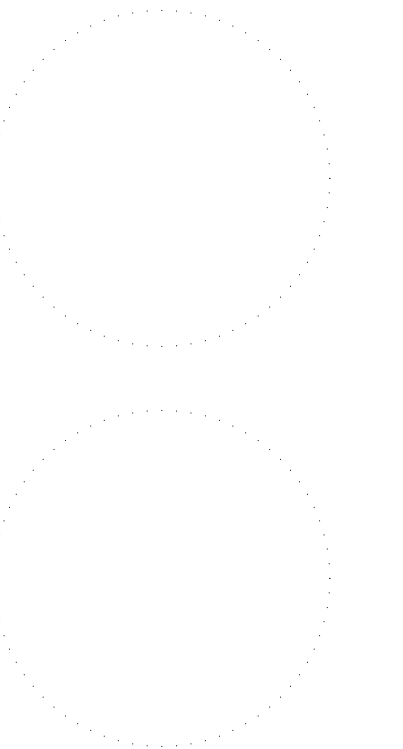
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drawn by **xxx**
checked by **xxx**

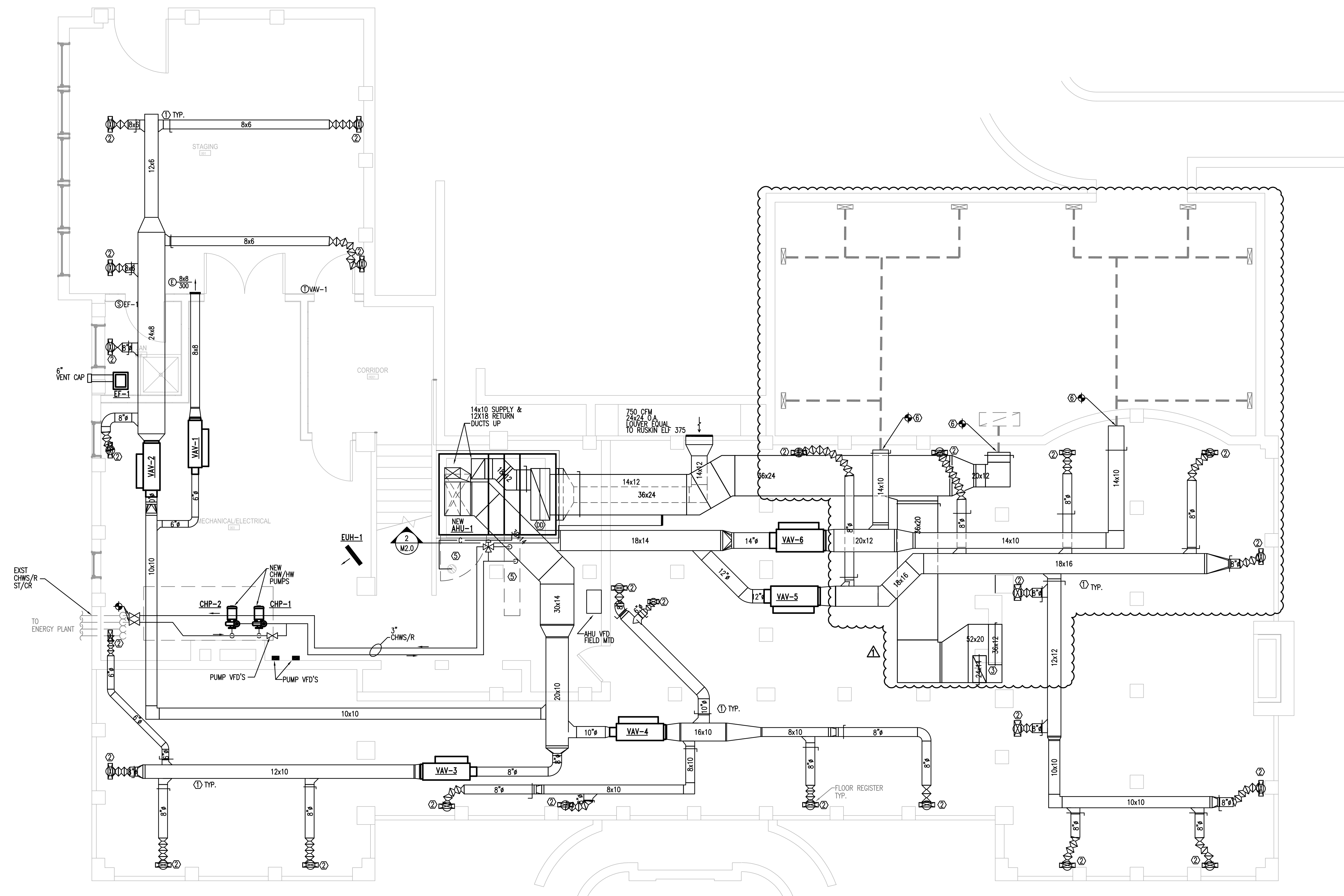


① SECOND FLOOR PLAN – HVAC DEMOLITION
1/4"=1'-0"

DEMOLITION KEYNOTES:
□ REMOVE ALL EXISTING EQUIP, DUCTWORK AND PIPING. CONTRACTOR SHALL FIELD VERIFY EXTENT OF DEMOLITION PRIOR TO BIDDING.

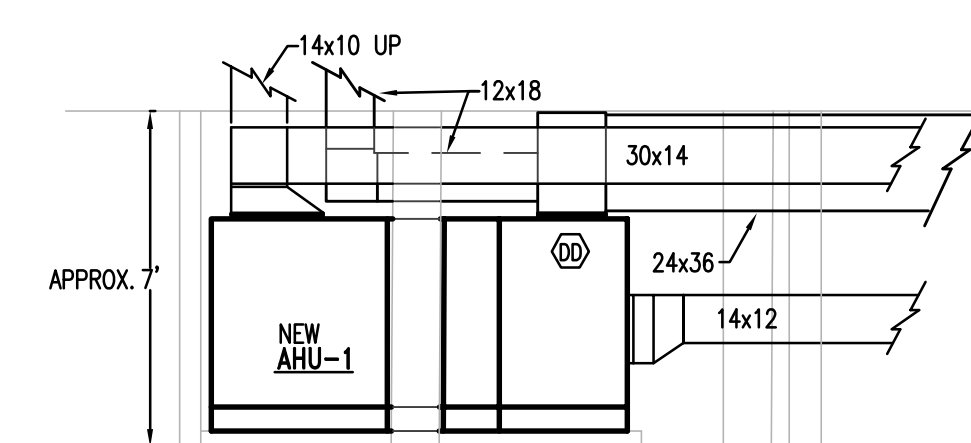


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▲	ADDENDUM #2	11/30/17

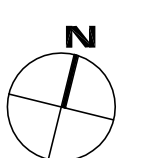


1 BASEMENT FLOOR LEVEL – HVAC RENOVATION
1/4"=1'-0"

- RENOVATION KEYNOTES:
- ① INSTALL ALL DUCTWORK AND EQUIPMENT AS HIGH AS POSSIBLE AND TIGHT TO THE FLOOR JOISTS.
 - ② DUCT UP TO FLOOR GRILLE ABOVE. PROVIDE FLEX DUCT AND TRANSITION AS REQUIRED FOR INSTALLATION.
 - ③ CONNECT RETURN DUCT UP TO 36x12 & 24x14 RETURN AIR RISERS.
 - ④ CONNECT RETURN DUCT UP TO RETURN GRILLE.
 - ⑤ INSTALL UNIT WITH ADEQUATE CLEARANCE FOR ACCESS DOORS AND COIL PULL.
 - ⑥ CONNECT TO EXISTING DUCT, TRANSITION AS REQUIRED.



2 AHU-1 SECTION VIEW
1/4"=1'-0"



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USC CAMPUS PLANNING AND
CONSTRUCTION
743 GREENE STREET
COLUMBIA, SOUTH CAROLINA 29208

project name

**BARRINGER HOUSE MECHANICAL
RENOVATION**

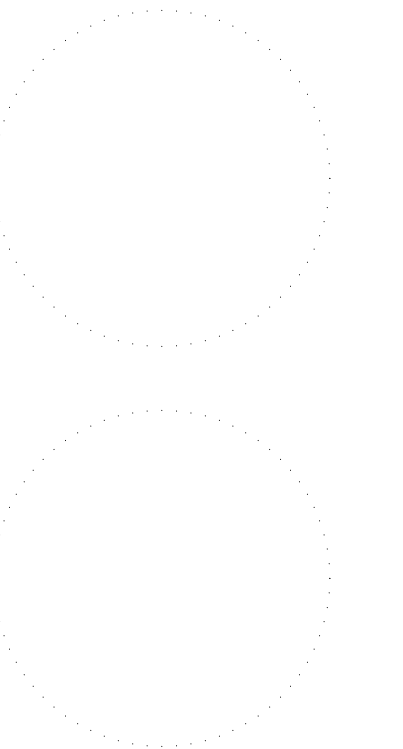
State project number

PROJECT # H27Z335

GMK project number

PROJECT # 16070.02

seals/signature

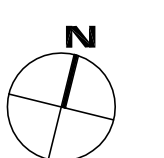


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CONSTRUCTION DOCUMENTS

date
10/25/2017

number	item	date
△	ADDENDUM #2	11/30/17

key plan

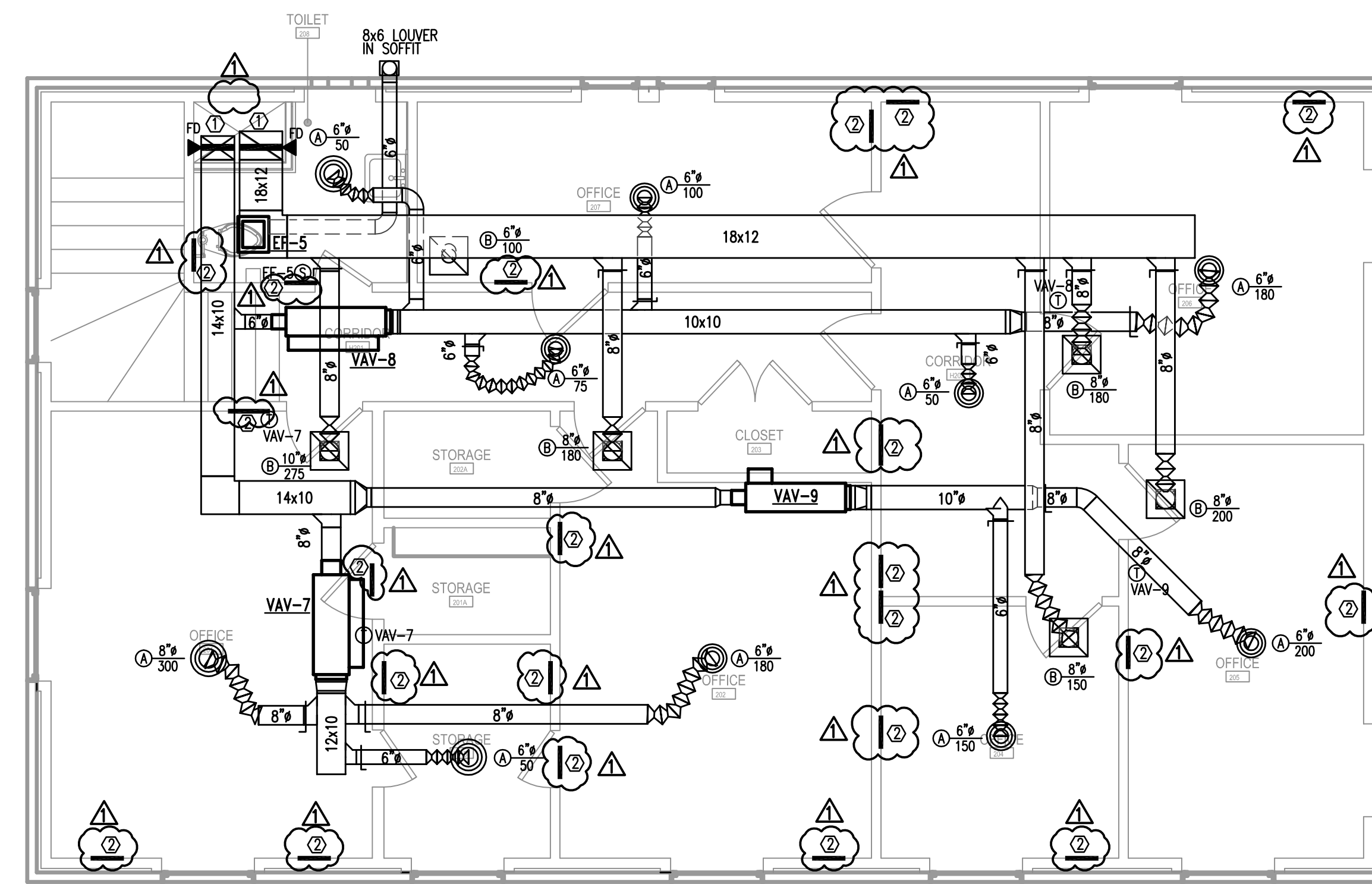


sheet title
**HVAC
RENOVATION
SECOND FLOOR PLAN**

sheet number

M2.2

drawn by **xxx**
checked by **xxx**



1 SECOND FLOOR LEVEL - HVAC RENOVATION
1/4"=1'-0"

RENOVATION KEYNOTES:
① NEW DUCT UP FROM BELOW. INSTALL FIRE DAMPER
WHERE DUCTS LEAVE CHASE IN AREA.
② EXISTING GRILLE TO BE ABANDONED IN PLACE. CONTRACTOR SHALL CAP DUCT AS NEAR AS POSSIBLE TO GRILLE. IF DUCT IS CAPPED DIRECTLY BEHIND GRILLE FACE, SHEET METAL CAP MUST BE PAINTED BLACK SO AS NOT TO BE VISIBLE.

