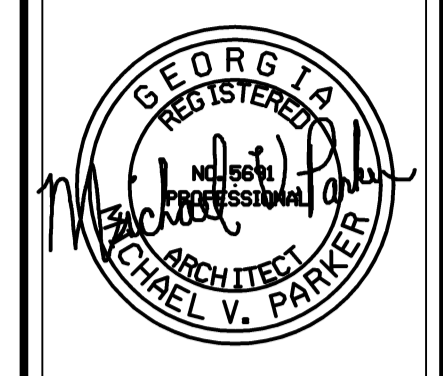




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HVAC RENOVATIONS
TO
INGRAM-PYE ELEMENTARY
FOR THE BIBB COUNTY BOARD OF EDUCATION
BIBB COUNTY GEORGIA

LOCAL FUNDS ONLY
BIBB BOE BID # 17-27

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T1	TITLE SHEET
A1.1	FLOOR PLAN - DEMOLITION AND NEW
A2.1	ROOF PLAN AND ARCHITECTURAL DETAILS
M001	MECHANICAL LEGEND, SCHEDULES AND NOTES
M002	MECHANICAL DETAILS
M101	FLOOR PLAN - MECHANICAL DEMOLITION
M201	FLOOR PLAN BUILDING 2030 - MECHANICAL RENOVATION
M202	ROOF PLAN BUILDING 2030 - MECHANICAL RENOVATION
E1.1	ELECTRICAL FLOOR PLAN, NOTES, RISER AND SCHEDULES

HVAC RENOVATIONS
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BIBB COUNTY GEORGIA

PROJECT NO.
17-006

SHEET TITLE
TITLE SHEET

DATE
APRIL 18, 2017

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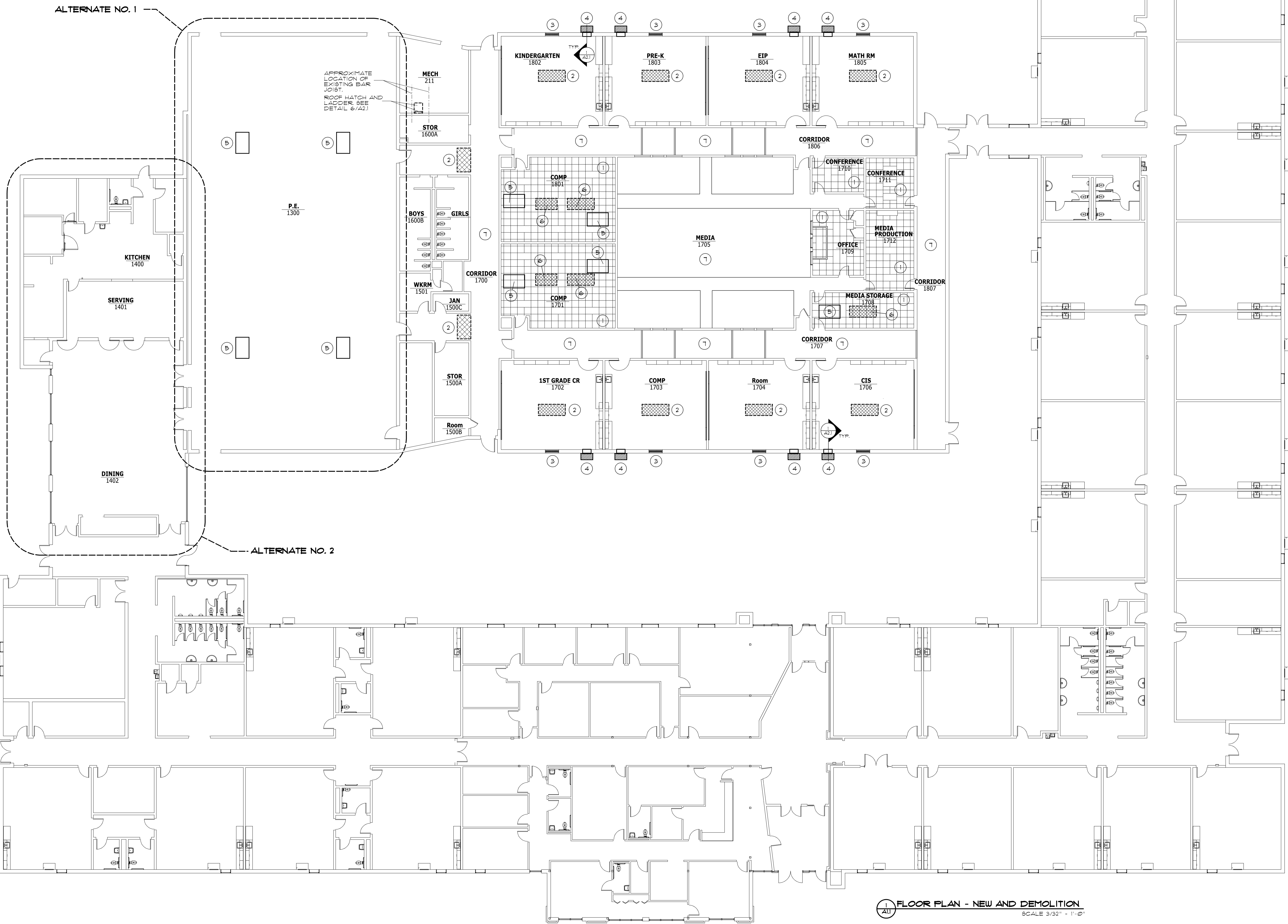
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NOTES

1. RECORD EXISTING CEILING GRID LAYOUT AND CONFIGURATION. REMOVE EXISTING ACOUSTICAL TILE CEILING AND GRID. SUPPORT EXISTING LIGHTS DURING CONSTRUCTION. PROVIDE NEW 2' X 2' ACOUSTICAL TILE CEILING AND GRID. REINSTALL LIGHTS IN NEW GRID.
2. REMOVE ALL UNIT VENTILATORS FROM CEILING. REPLACE/REPAIR VOIDS WITH NEW CEILING GRID AND TILE TO MATCH EXISTING.
3. EXISTING LOUVER TO REMAIN. SEPARATE LOUVER FROM DUCT AND CAP THE LOUVER WITH SHEET METAL. PROVIDE 2" RIGID INSULATION BOARD IN WALL OPENING SNUG FIT TO WALL AND BEAM ABOVE. PROVIDE STUD FRAMING WITHIN WALL OPENING. FILL STUD FRAMING WITH BATT INSULATION AND CLOSE THE OPENING WITH 1/2" GYPSUMBOARD. CAULK ALL AROUND.
4. WALL HUNG HEAT PUMP. LOCATE TO AVOID CONFLICT WITH STRUCTURAL COLUMNS AND BUILT IN CASEWORK. IF NECESSARY, TRIM TACKBOARDS TO ALLOW CLEARANCE FOR HEAT PUMP. SUPPLY AND RETURN WALL GRILLES/DIFFUSERS. FIELD VERIFY EXACT LOCATION OF UNITS WITH ENGINEER PRIOR TO DEMOLITION.
5. NEW HVAC ROOF TOP UNIT. SEE DETAIL 2/A2.1
6. REMOVE ALL UNIT VENTILATORS FROM CEILING. REPLACE CEILING GRID AND TILE AS STATED IN NOTE 1 ABOVE.
7. REMOVE/REPAIR/REPLACE EXISTING 2' X 2' GRID AND TILE CEILING AS REQUIRED FOR INSTALLATION OF NEW DUCT. SEE MECHANICAL.



FLOOR PLAN - NEW AND DEMOLITION
SCALE 3/32" = 1'-0"



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SHEET TITLE FLOOR PLAN DEMOLITION AND NEW
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A1.1



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17-006

SHEET TITLE
ROOF PLAN
NOTES AND DETAILS

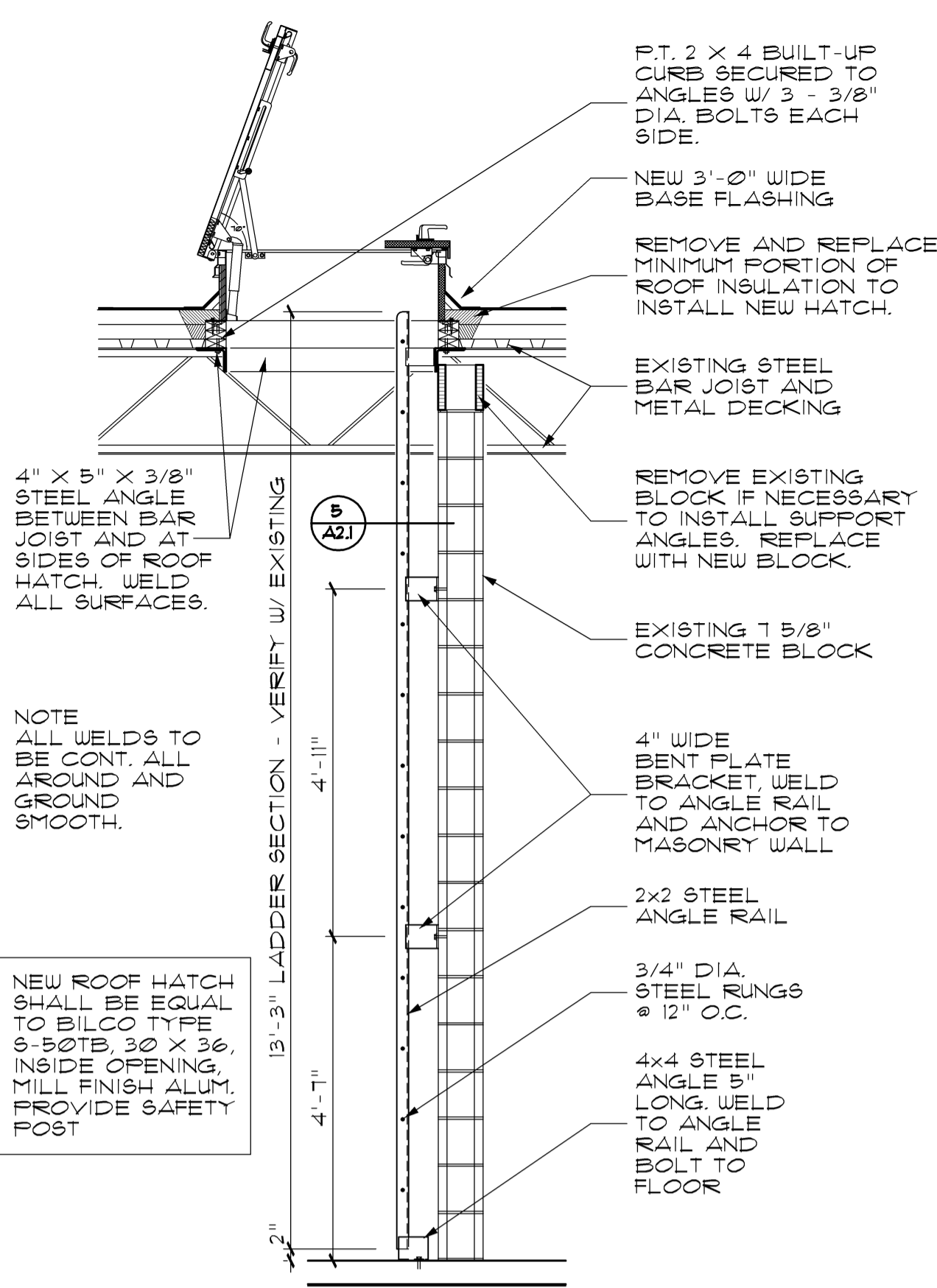
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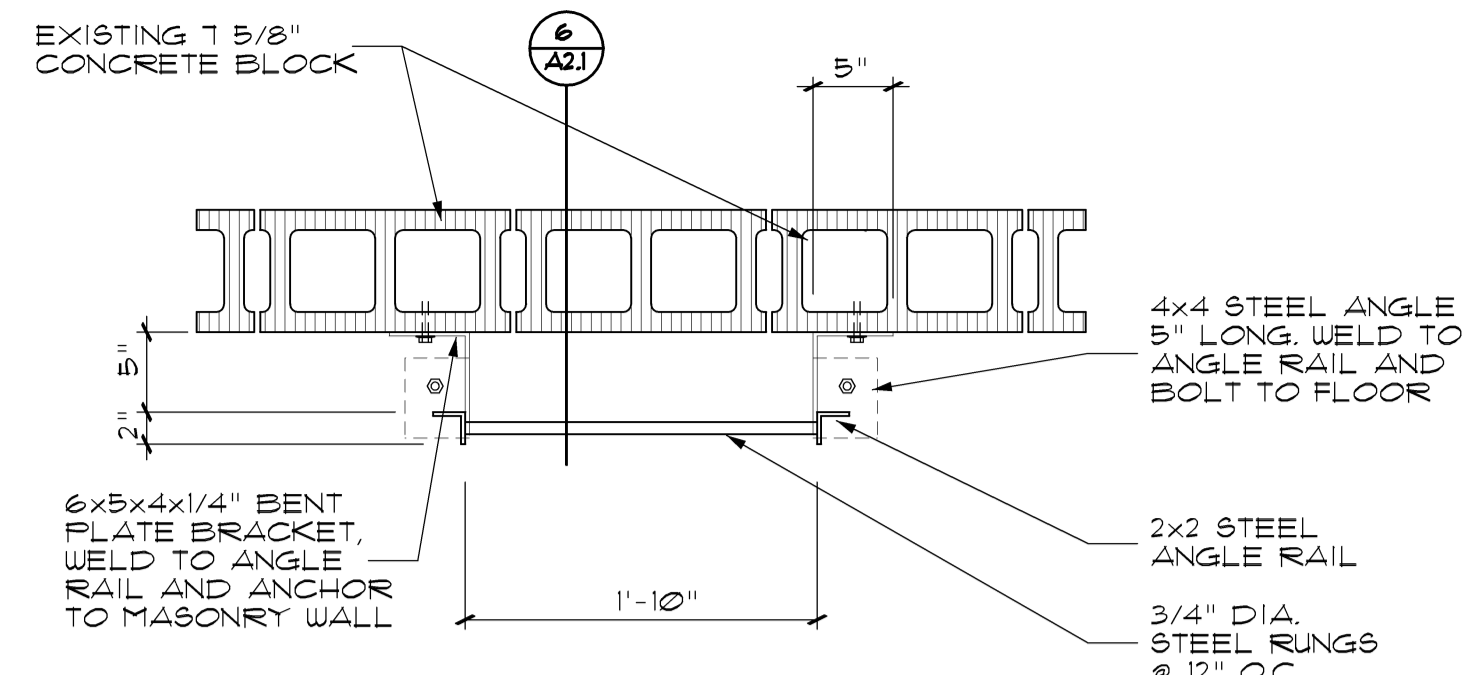
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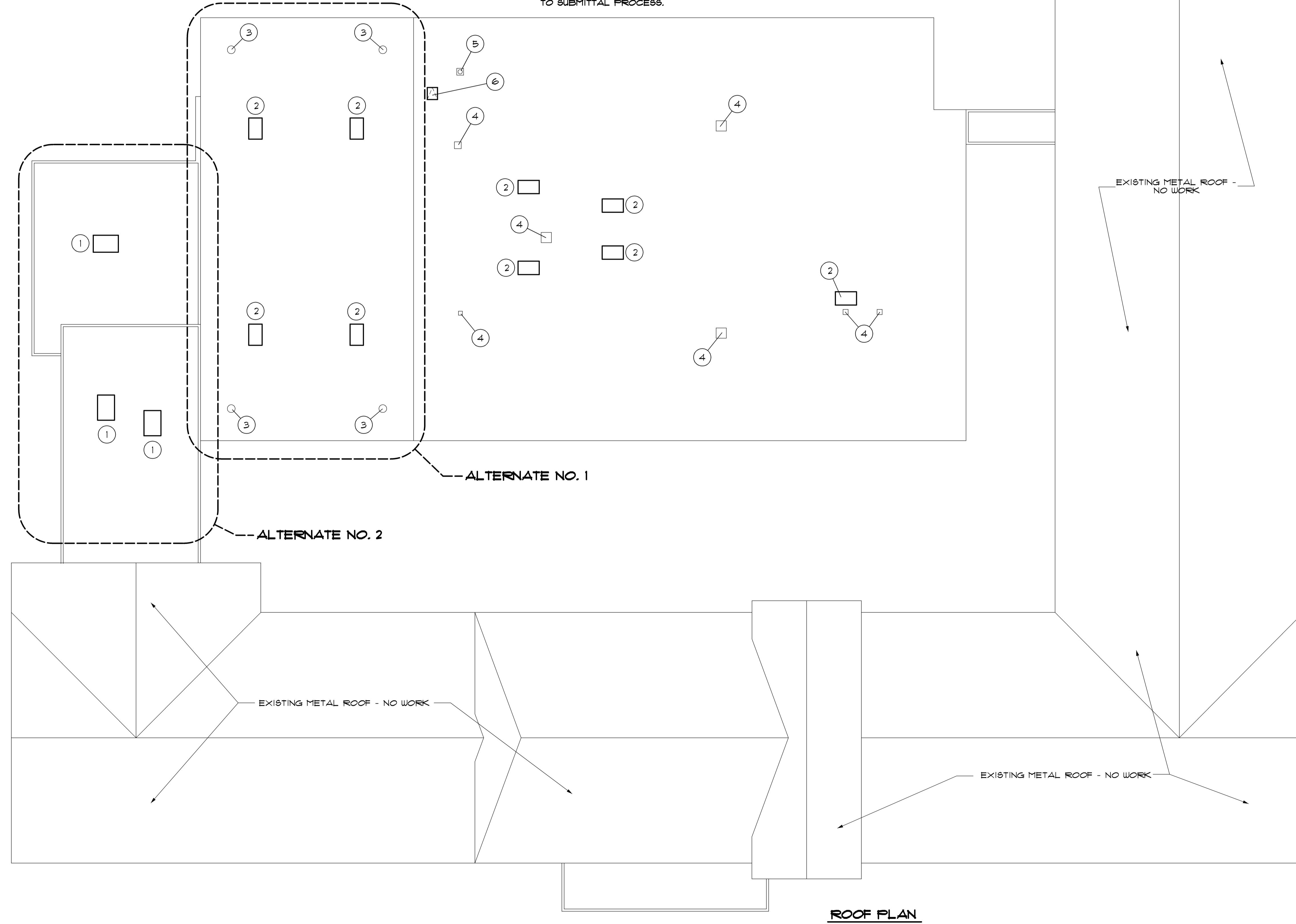
6 SECTION AT NEW LADDER AND ROOF HATCH
SCALE 1/2" = 1'-0"



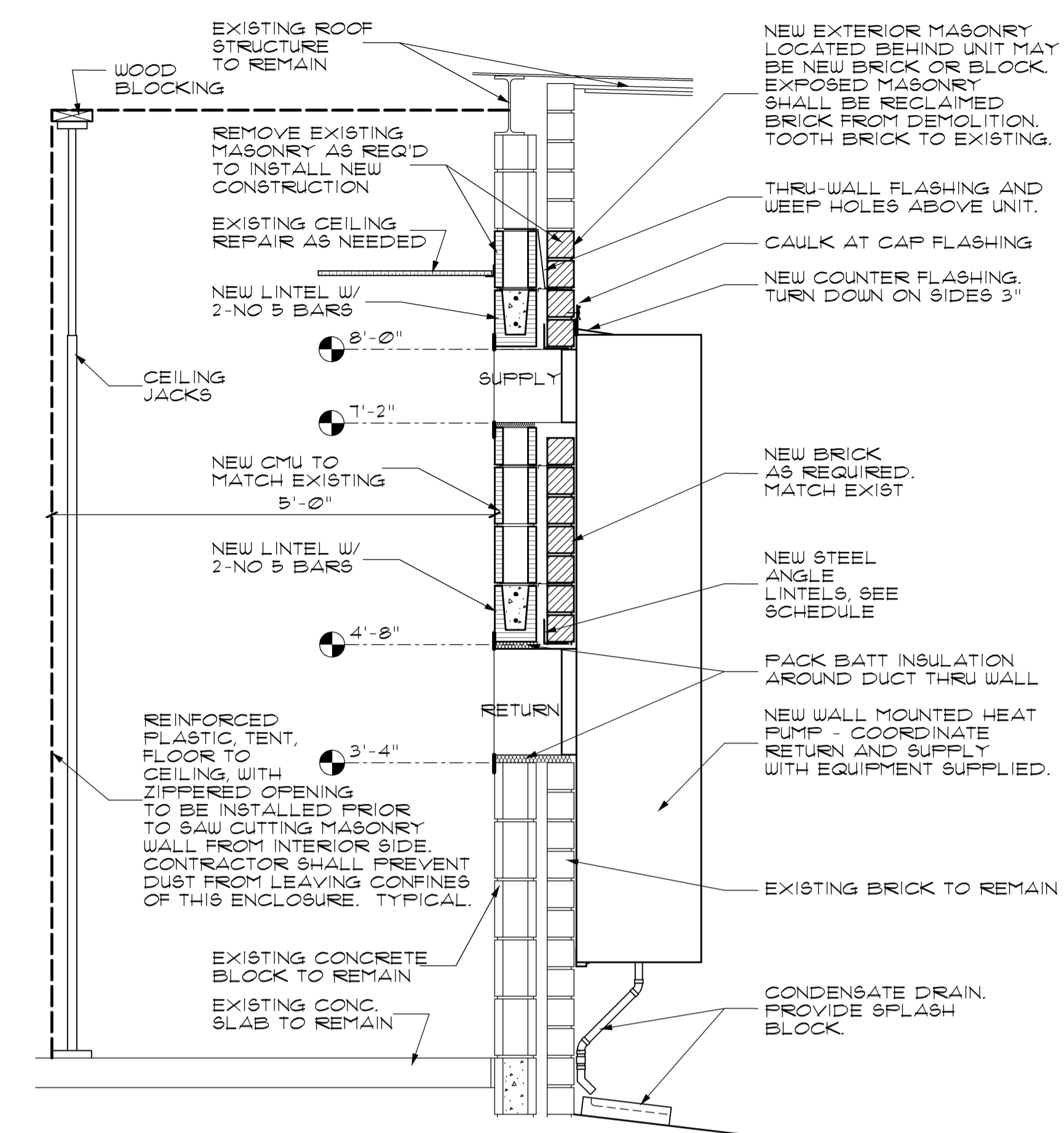
5 LARGE SCALE PLAN AT NEW LADDER
SCALE 1" = 1'-0"

ROOF PLAN NOTES

- NEW ROOF TOP UNIT TO BE INSTALLED ON EXISTING ROOF CURB. SEE MECHANICAL DRAWINGS. PROVIDE COUNTER FLASHING AT TOP OF CURB AS MAY BE NECESSARY.
- APPROXIMATE LOCATION OF NEW ROOF TOP UNIT. SEE MECHANICAL. PROVIDE NEW ANGLE FRAMING WELDED TO EXISTING BAR JOIST. REMOVE MINIMUM PORTION OF EXISTING ROOF TO INSTALL THE NEW ROOF CURB. REPAIR ROOF INSULATION AND REINSTALL ROOF. PROVIDE ADDITIONAL 36" WIDE BASE FLASHING AROUND UNIT. SEE DETAIL 2/A2.1
- EXISTING UNIT HEATER FLUES TO BE REMOVED IN THEIR ENTIRETY. REMOVE PIPE THROUGH ROOF AND MINIMUM PORTION OF ROOFING TO PATCH OPENING. PROVIDE 16 GA. METAL CLOSURE PLATE SECURED TO METAL DECK. INSTALL RIGID INSULATION TO MATCH EXISTING - APPROX. 5" DEPTH. CAP WITH MODIFIED BITUMEN, SINGLE-PLY ROOFING TO MATCH EXISTING.
- EXISTING PENTHOUSE TO REMAIN. SEE DETAIL 4/A2.1.
- EXISTING BOILER FLUE TO BE REMOVED IN ITS ENTIRETY. REMOVE FLUE CURB AND MINIMUM PORTION OF ROOFING TO PATCH OPENING. PROVIDE 16 GA. METAL DECK TO MATCH EXISTING. SECURE TO EXISTING METAL DECK. INSTALL RIGID INSULATION TO MATCH EXISTING - APPROX. 5" DEPTH. CAP WITH MODIFIED BITUMEN, SINGLE-PLY ROOFING TO MATCH EXISTING.
- PROVIDE NEW ROOF HATCH AND LADDER IN EXISTING ROOF AS SHOWN ON DETAILS 5/A2.1 AND 6/A2.1. VERIFY LOCATION WITH ENGINEER PRIOR TO SUBMITTAL PROCESS.

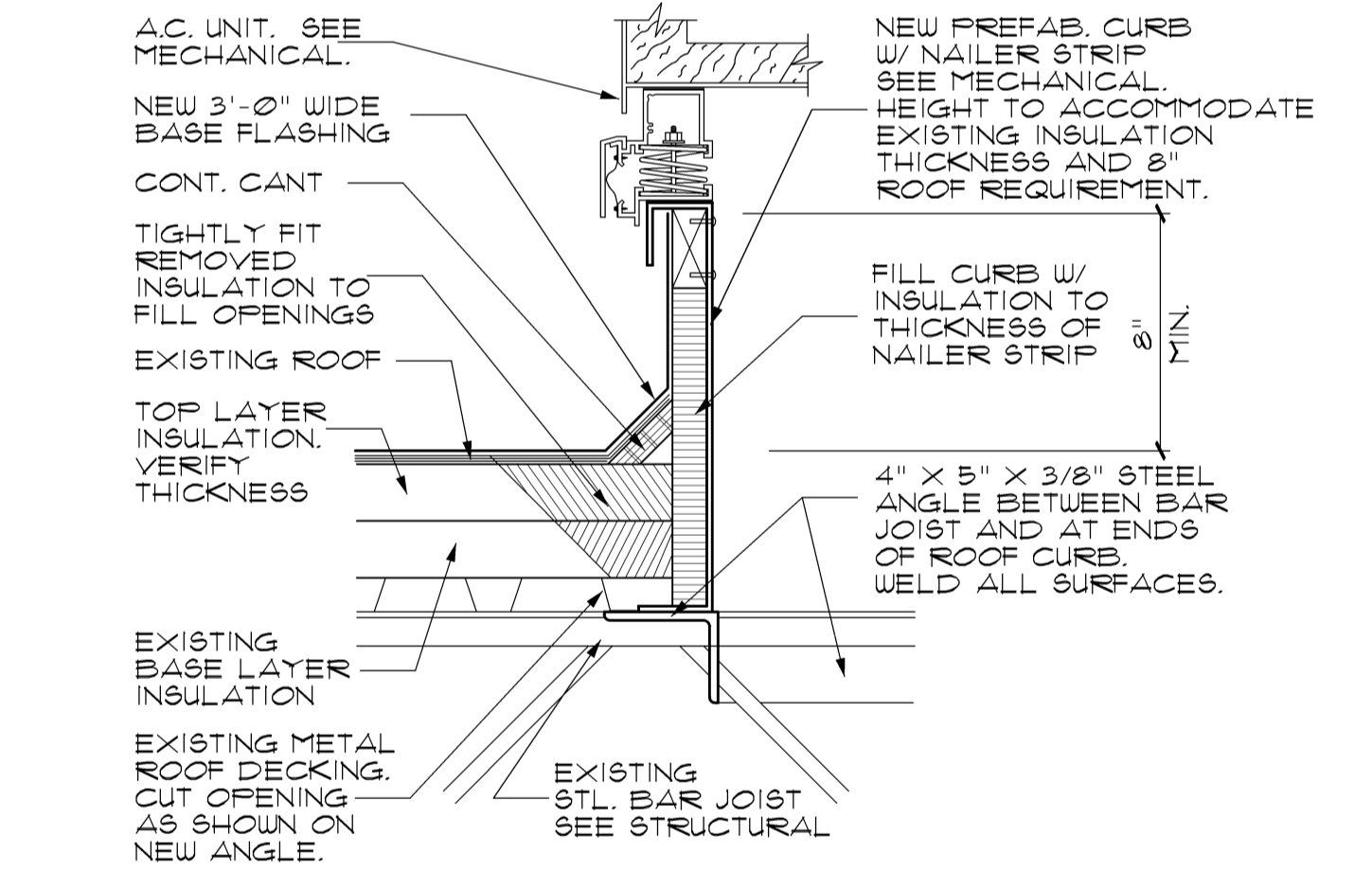


ROOF PLAN
SCALE 1/2" = 1'-0"



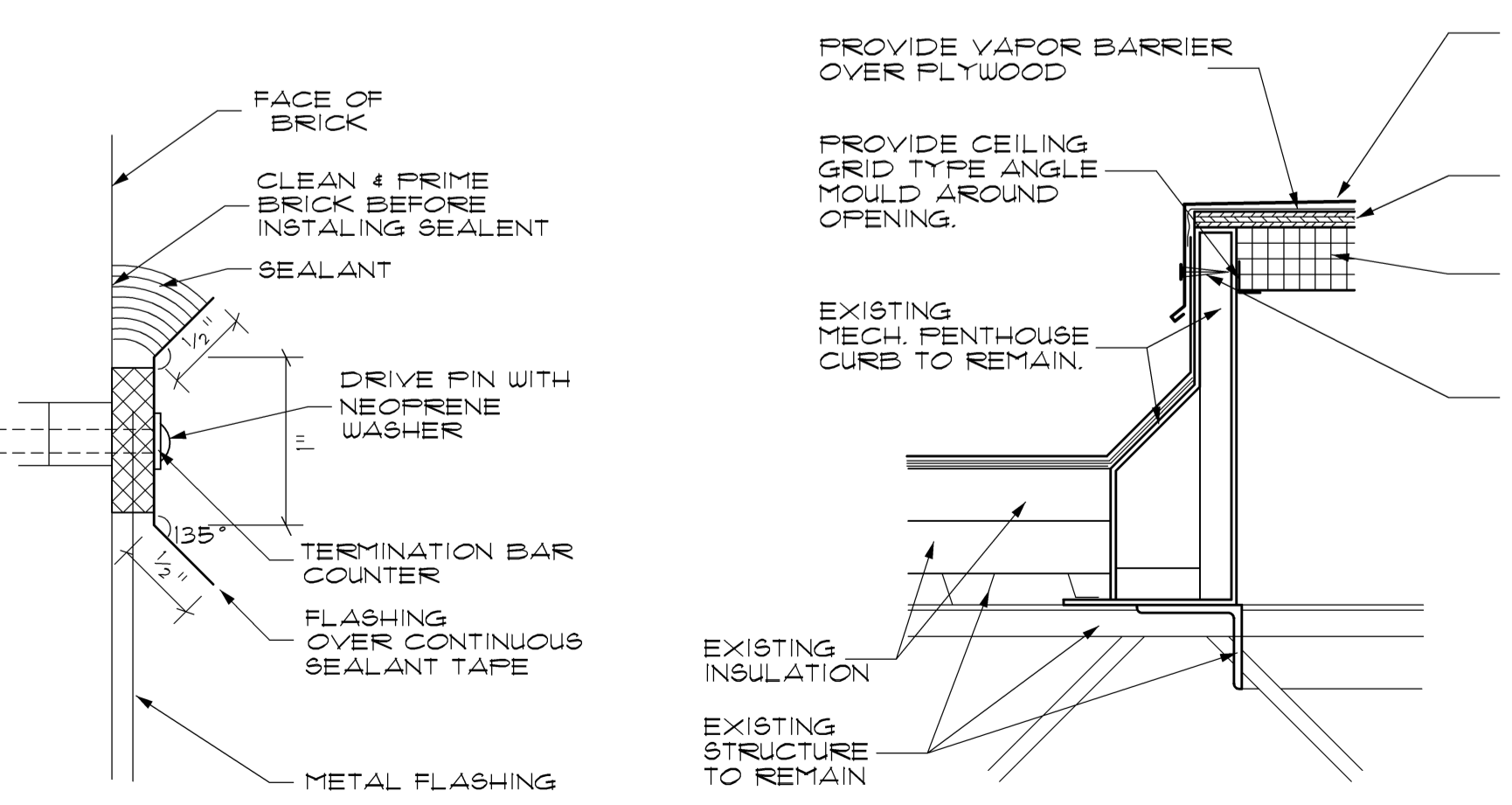
NOTE THAT THE WALL HUNG HEAT PUMP SHOWN MAY OR MAY NOT REFLECT THE EXACT CONFIGURATION OF THE HEAT PUMP PROVIDED ON THE JOB. DUE TO DIFFERENT SIZE UNITS AND DIFFERENT MANUFACTURERS THE EXACT CONFIGURATION OF SUPPLY AND RETURN IS UNKNOWN. THE DESIGN INTENT OF THE TYPICAL WHHP IS TO LOCATE THE TOP OF THE SUPPLY AT 8'-0". OTHER DIMENSIONS MAY VARY. VERIFY ALL LOCATIONS WITH THE ENGINEER PRIOR TO DEMOLITION.

1 WHHP SECTION IN EXISTING WALL
SCALE 3/4" = 1'-0"

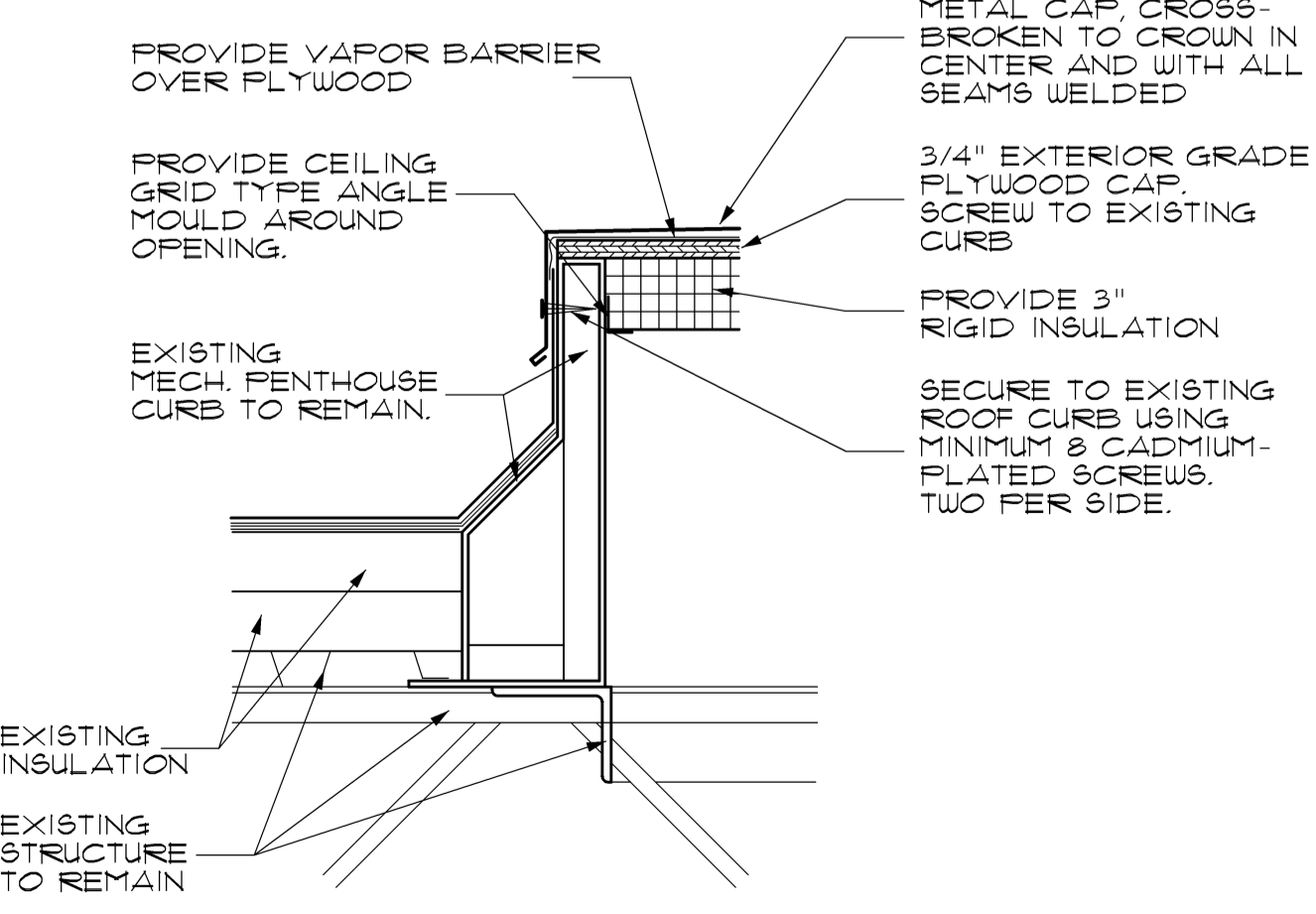


- INSTALL SUPPORT ANGLES TO THE EXISTING BAR JOIST FROM BELOW.
- REMOVE MINIMUM PORTION OF MODIFIED ROOF MEMBRANE AND INSULATION TO EXPOSE THE EXISTING METAL DECK.
- CUT THE OPENING IN THE METAL DECK TO ACCOMMODATE THE INSTALLATION OF THE NEW MECHANICAL ROOF CURB.
- INSTALL THE ROOF CURB ON THE NEW SUPPORT ANGLES.
- REPLACE THE REMOVED INSULATION TO FILL THE OPENINGS.
- RESECURE THE EXISTING ROOF MEMBRANES.
- PROVIDE NEW 3'-0" WIDE BASE FLASHING ON CURB, OVER THE CANT AND ONTO THE EXISTING ROOF SURFACE. ALL FOUR SIDES. VERIFY ROOF TYPE WITH ENGINEER PRIOR TO BEGINNING WORK.

2 NEW A.C. UNIT CURB SECTION
SCALE 1/2" = 1'-0"



3 CAP FLASHING
SCALE 1/2" = 1'-0"



4 CAP AT EXISTING ROOF CURB
SCALE 1/2" = 1'-0"

MECHANICAL LEGEND	
LINE WEIGHTS	
---	EXISTING TO REMAIN
----	TO BE DEMOLISHED
---	NEW WORK
SYMBOLS	
D	CONDENSATE DRAIN PIPING
R	REFRIGERANT PIPING
○	DROPPING OR RISING PIPE
○	PIPE TO OR FROM ABOVE
24x12	RECTANGULAR DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
○	SPIRAL ROUND DOUBLE WALL DUCT
○	ROUND DUCTWORK OR FLUE PIPING
○	RECTANGULAR TO ROUND DUCT TRANSITION
○	FLEXIBLE ROUND DUCT
○	FLEXIBLE DUCT CONNECTION
○	ADJUSTABLE DEFLECTOR VANES AT BRANCH DUCT
○	SQUARE DUCT ELBOW WITH TURNING VANES
MVD	MANUAL VOLUME DAMPER
FD	FIRE DAMPER IN DUCT THROUGH WALL
FSD	FIRE/SMOKE DAMPER IN DUCT THROUGH WALL
AVD	AUTOMATIC (MOTORIZED) CONTROL DAMPER
AVD	ONE INCH THICK DUCT LINER
I	SPLITTER DAMPER WITH SPLIT DIMENSIONS SHOWN
↑	VERTICAL OFFSET: ARROW INDICATES RISE
FD	FIRE DAMPER IN DUCT THROUGH FLOOR SLAB
RFD	RADIANT FIRE DAMPER AT CEILING
○	EQUIPMENT ON ROOF ABOVE
○	WALL MOUNTED THERMOSTAT OR TEMPERATURE SENSOR
○	WALL MOUNTED HUMIDISTAT OR HUMIDITY SENSOR
○	WALL MOUNTED FAN SWITCH
○	WALL MOUNTED TIME CLOCK
○	DOOR GRILLE
U.C.	UNDERCUT DOOR 3/4"
○	CONCRETE PAD
○	POINT OF CONNECTION OR LIMIT OF SCOPE OF WORK
CFM	CUBIC FEET PER MINUTE AIRFLOW
ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATE
BAS	BUILDING AUTOMATION SYSTEM
CFM	CUBIC FEET PER MINUTE
DA	DIAMETER
db	DRY BULB
DUAL TEMP	DUAL TEMPERATURE
DX	DIRECT EXPANSION
EER	ENERGY EFFICIENCY RATING
EAT	ENTERING AIR TEMPERATURE
Edb	ENTERING DRY BULB
ESP	EXTERNAL STATIC PRESSURE
EVAP	EVAPORATOR
Ewb	ENTERING WET BULB
FPM	FEET PER MINUTE
FT	FEET
H	HEIGHT
HP	HORSE POWER
IN	INCHES
IN. WG	INCHES WATER GAUGE
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
Ldb	LEAVING DRY BULB
Lwb	LEAVING WET BULB
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MIN	MINIMUM
OA	OUTDOOR AIR
PD	PRESSURE DROP
PSIG	POUNDS PER SQUARE INCH GAUGE
RPM	REVOLUTIONS PER MINUTE
SEER	SEASONAL ENERGY EFFICIENCY RATING
SQ. FT.	SQUARE FEET
TEMP	TEMPERATURE
TYP	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE
W	WIDTH
wb	WET BULB
°F	DEGREES FAHRENHEIT
ΔT	TEMPERATURE DIFFERENCE

ROOFTOP AIR CONDITIONING UNIT SCHEDULE												
MARK	CARRIER MODEL No.	SUPPLY CFM	OA CFM	TOTAL COOLING MBH	SENSIBLE COOLING MBH	APPROX. ESP IN WG	SUPPLY FAN HP	GAS HEAT MBH INPUT	ELECT. HEAT KW@460V	MIN SEEREER	NOTES	
RTU-1	48TC-06	2000	135	62.3	46.7	0.50	1.0	90	---	14.0 SEER	1.2,3,4,5,6,7,8,9,10,11,12,13,15	
RTU-2	48TC-06	2000	135	62.3	46.7	0.50	1.0	90	---	14.0 SEER	1.2,3,4,5,6,7,8,9,10,11,12,13,15	
RTU-3	48TC-07	2400	200	75.2	58.1	0.60	1.5	90	---	14.0 SEER	1.2,3,4,5,6,7,8,9,10,11,12,13,15	
RTU-4	48TC-07	2400	200	75.2	58.1	0.60	1.5	90	---	14.0 SEER	1.2,3,4,5,6,7,8,9,10,11,12,13,15	
RTU-5	48TC-05	1600	150	47.0	32.9	0.50	1.0	90	---	14.0 SEER	1.2,3,4,5,6,7,8,9,10,11,12,13,15	
RTU-6	48TC-05	1600	135	47.0	32.9	0.50	1.0	90	---	14.0 SEER	1.2,3,4,5,6,7,8,9,10,11,12,13,15	
RTU-7	48TC-05	1600	135	47.0	32.9	0.50	1.0	90	---	14.0 SEER	1.2,3,4,5,6,7,8,9,10,11,12,13,15	
RTU-8	48TC-05	1600	135	47.0	32.9	0.50	1.0	90	---	14.0 SEER	1.2,3,4,5,6,7,8,9,10,11,12,13,15	
RTU-9	48TC-05	1600	135	47.0	32.9	0.50	1.0	90	---	14.0 SEER	1.2,3,4,5,6,7,8,9,10,11,12,13,15	
RTU-10	48TC-12	4000	400	124.1	96.2	0.60	3.0	180	---	11.0 EER	1.2,3,4,5,6,8,9,10,11,12,14,15	
RTU-11	48TC-14	5000	500	150.8	105.8	0.60	5.0	180	---	11.0 EER	1.2,3,4,5,6,8,9,10,11,12,14,15	
RTU-12	48TC-14	5000	500	150.8	105.8	0.60	5.0	180	---	11.0 EER	1.2,3,4,5,6,8,9,10,11,12,14,15	

1. COOLING CAPACITIES BASED ON AIR ENTERING EVAPORATOR AT 80° Fdb, 67° Fwb AND 95° F AMBIENT AIR TEMPERATURE
2. DOWN FLOW UNIT. PROVIDE FULL PERIMETER ROOF CURB. SEE DETAIL 1M002.
3. PROVIDE WITH HINGED ACCESS PANELS
4. PROVIDE WITH HOT GAS REHEAT DEHUMIDIFICATION CYCLE
5. PROVIDE WITH CONDENSER HALL GUARDS
6. ROUTE CONDENSATE DRAIN TO NEAREST ROOF DRAIN OR GUTTER. SEE DETAIL MM002.
7. PROVIDE FOR THROUGH-CURB GAS PIPING
8. PROVIDE FOR THROUGH-CURB ELECTRICAL WIRING
9. PROVIDE 120V ELECTRICAL CONVENIENCE OUTLET
10. PROVIDE FACTORY INSTALLED DISCONNECT OR CIRCUIT BREAKER
11. ROOF SLOPE COMPENSATION TO BE ACHIEVED THROUGH ROOF CURB SLOPE. DO NOT SHIM ROOF CURB
12. PROVIDE CARRIER I/VU CONTROLS COMPATIBLE WITH SCHOOL'S EMS
13. PROVIDE RTU-6 THRU RTU-9 AS ADDITIVE ALTERNATE #1
14. PROVIDE RTU-10 THRU RTU-12 AS ADDITIVE ALTERNATE #2
15. PROVIDE GLOBAL PLASMA SOLUTIONS AIR PURIFICATION UNIT

WALL HUNG HEAT PUMP SCHEDULE								
MARK	BARID MODEL No.	SUPPLY CFM	OA CFM FROM ERV	TOTAL COOLING MBH	SENSIBLE COOLING MBH	HEAT OUTPUT MBH	ELEC HEAT KW	NOTES
WHHP-1	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1.2,3,4,5,6,7,8,9
WHHP-2	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1.2,3,4,5,6,7,8,9
WHHP-3	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1.2,3,4,5,6,7,8,9
WHHP-4	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1.2,3,4,5,6,7,8,9
WHHP-5	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1.2,3,4,5,6,7,8,9
WHHP-6	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1.2,3,4,5,6,7,8,9
WHHP-7	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1.2,3,4,5,6,7,8,9
WHHP-8	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1.2,3,4,5,6,7,8,9

1. COOLING CAPACITIES BASED ON AIR ENTERING EVAPORATOR AT 80° Fdb, 67° Fwb AND 95° F AMBIENT AIR TEMPERATURE
2. HEAT PUMP HEATING CAPACITY AT 47° F
3. PROVIDE HOT GAS REHEAT DEHUMIDIFICATION
4. PROVIDE AUXILIARY ELECTRIC HEATER OF CAPACITY SCHEDULED
5. PROVIDE REMOTE WALL MOUNTED THERMOSTAT
6. PROVIDE ENERGY RECOVER VENTILATOR WITH ROTARY CASSETTE
7. PROVIDE CARRIER I/VU CONTROLS COMPATIBLE WITH SCHOOL'S EXISTING EMS
8. INTEGRAL CIRCUIT BREAKER OR DISCONNECT
9. PROVIDE GLOBAL PLASMA SOLUTIONS AIR PURIFICATION UNIT

GRILLE SCHEDULE						
MARK	TITUS MODEL No.	FACE SIZE	NECK SIZE	SERVICE	FINISH	NOTES
(A)	TDC-AA	24x24	8"Ø	SUPPLY	WHITE	1.2,3,4
(B)	TDC-AA	24x24	10"Ø	SUPPLY	WHITE	1.2,3,4
(C)	TDC-AA	24x24	12"Ø	SUPPLY	WHITE	1.2,3,4
(D)	50"	24x24	---	RETURN	WHITE	7,8
(E)	300RS	16x12	---	SUPPLY	WHITE	3,5,6
(F)	300RS	24x14	---	SUPPLY	WHITE	3,5,6
(G)	355FL	38x16	---	RETURN	WHITE	6,10
(H)	350RS	24x22	22x40	RETURN	WHITE	3,5,6
(J)	TDC-AA	24x24	6"Ø	SUPPLY	WHITE	1.2,3,4
(K)	50"	24x48	---	RETURN	WHITE	7,8
(X)	EXISTING					9


1. LOUVER FACE SUPPLY DIFFUSER
2. IN 24x24 PANEL FOR LAY-IN T-BAR CEILING
3. PROVIDE STEEL OPPOSED BLADE BALANCING DAMPER
4. ROUND NECK
5. RECTANGULAR NECK
6. FRONT BLADES PARALLEL TO THE SHORT DIMENSION
7. 1/2"x1/2"x1/2" ALUMINUM EGG-CRATE CEILING REGISTER
8. OPEN TO RETURN AIR PLENUM
9. BALANCE TO CFM SHOWN
10. 3/4" SPACING, 0" DEFLECTION

EXHAUST FAN SCHEDULE							
MARK	GREENHECK MODEL No.	CFM	APPROX. ESP IN WG	FAN RPM	MOTOR HP	MAX SONES	NOTES
EF-1	G-123-VG	1300	0.375	1395	1/4	12	1.2,3,4
EF-4	G-098-VG	650	0.20	1490	1/8	10	1.2,3,4
EF-5	G-098-VG	650	0.20	1490	1/8	10	1.2,3,4

1. DIRECT DRIVE. SPEED CONTROLLER
2. PROVIDE DISCONNECT SWITCH
3. PROVIDE BACKDRAFT DAMPER
4. ROOF CURB OR CURB ADAPTER REQUIRED

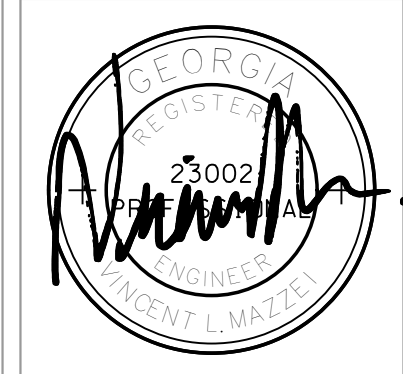
- ### GENERAL DEMOLITION NOTES:
- FIELD VERIFY EXISTING CONDITIONS. LOCATION OF EXISTING EQUIPMENT, DUCT AND PIPE ROUTES MAY DEVIATE SLIGHTLY FROM WHAT IS SHOWN ON THE DRAWINGS.
 - WHERE EQUIPMENT, DUCTS AND PIPES, CONTROL DEVICES, CONDUITS, CABLES AND WIRING ARE DISCONNECTED FOR THE REMOVAL OF EQUIPMENT, THEY SHALL BE RECONNECTED, TESTED AND MADE OPERATIONAL.
 - UNLESS OTHERWISE NOTED, ALL MATERIALS & EQUIPMENT SHOWN OR SPECIFIED TO BE REMOVED SHALL BE THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE.
 - DO ANY AND ALL CUTTING AND PATCHING REQUIRED FOR THIS SCOPE OF WORK, RESTORING ALL SURFACES TO THEIR ORIGINAL CONDITION TO MATCH SURROUNDING FINISHES. ALTERATIONS TO ANY STRUCTURAL MEMBER, EITHER STEEL OR CONCRETE, SHALL REQUIRE THE APPROVAL OF THE OWNER.
 - REMOVE ALL SUPPORTING FACILITIES NO LONGER NEEDED OR MADE OBSOLETE BY THE NEW EQUIPMENT AND MATERIALS FURNISHED UNDER THIS CONTRACT. SUCH REMOVAL INCLUDES, BUT IS NOT LIMITED TO, SUPPORT BRACKETS AND ATTACHMENTS, ABANDONED PIPING SUPPORT BRACKETS AND ATTACHMENTS. REMOVAL OF PIPING SHALL INCLUDE ASSOCIATED VALVES. WELDED SUPPORTS SHALL BE REMOVED FLUSH WITH SURFACE. SURFACE SHALL BE GROUND SMOOTH, CLEANED PRIMED AND PAINTED TO MATCH SURROUNDING FINISH.
 - AFTER EXISTING PIPING AND DUCTWORK ARE REMOVED, PATCH THE EXISTING FLOOR OR WALL OPENINGS TO MATCH SURROUNDING SURFACES AND MAINTAIN THE FIRE RATING.
 - WHERE EQUIPMENT IS SHOWN TO BE REMOVED IT SHALL BE REMOVED COMPLETE WITH ASSOCIATED PIPING, CONTROLS AND ASSOCIATED CONDUITS AND WIRING.
 - "VERIFY" SHALL MEAN CHECK EXISTING AS-INSTALLED CONDITIONS AGAINST DRAWINGS AND SPECIFICATION AND ADJUST NEW WORK TO MATCH EXISTING. OBTAIN RULING FROM THE OWNER CONTRACTING OFFICER ON ANY ITEMS REQUIRING CLARIFICATION.
 - BEFORE REMOVAL OF ANY SERVICES SUCH AS PIPING, LABEL EACH EXISTING PIPE AT THE POINT OF RECONNECTION BETWEEN EXISTING AND NEW SERVICES TO ENSURE PROPER RECONNECTION WITHOUT CROSSOVERS.

- ### GENERAL NOTES:
- VERIFY ALL SIZES, MATERIALS, TEMPERATURES AND PRESSURES BEFORE ORDERING OR FABRICATION OF ANY MATERIALS.
 - MECHANICAL DRAWINGS DO NOT SPECIFY VOLTAGES OF MECHANICAL EQUIPMENT. REFER TO THE ELECTRICAL DRAWINGS FOR VOLTAGES AND MECHANICAL EQUIPMENT ELECTRICAL LOADS. VERIFY ELECTRICAL CHARACTERISTICS OF ALL MECHANICAL EQUIPMENT BEFORE ORDERING EQUIPMENT.
 - REFER TO EACH DRAWING FOR NOTES SPECIFIC TO THAT DRAWING SHEET.
 - ALL PENETRATIONS THROUGH EXISTING FIRE RATED WALLS, PARTITIONS AND FLOOR SLABS SHALL BE FIRE STOPPED TO MAINTAIN THE FIRE RATING OF THE EXISTING WALL, PARTITION OR FLOOR SLAB.
 - ALL FRESH AIR INTAKES SHALL BE MINIMUM 10 FT AWAY FROM ANY BUILDING GENERAL EXHAUST AND PLUMBING VENTS, AND MINIMUM 15 FT AWAY FROM FLUES AND GREASE EXHAUST.
 - WHEN ROOF MOUNTED MECHANICAL EQUIPMENT DEVIATES FROM THE BASIS OF DESIGN, COORDINATE ORIENTATION AND LOCATION OF THE OUTDOOR AIR INTAKE OF THE EQUIPMENT WITH EXHAUST FANS, PLUMBING VENTS AND GAS VENTS. ALLOW CLEARANCES AS INDICATED ABOVE.




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SBE Project No. 17004



LOCAL FUNDS ONLY
BIBB BOE BID # 17-27

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HVAC RENOVATIONS
INGRAM-PYE ELEMENTARY
FOR THE BIBB COUNTY BOARD OF EDUCATION
BIBB COUNTY GEORGIA

PROJECT NO.
17-006

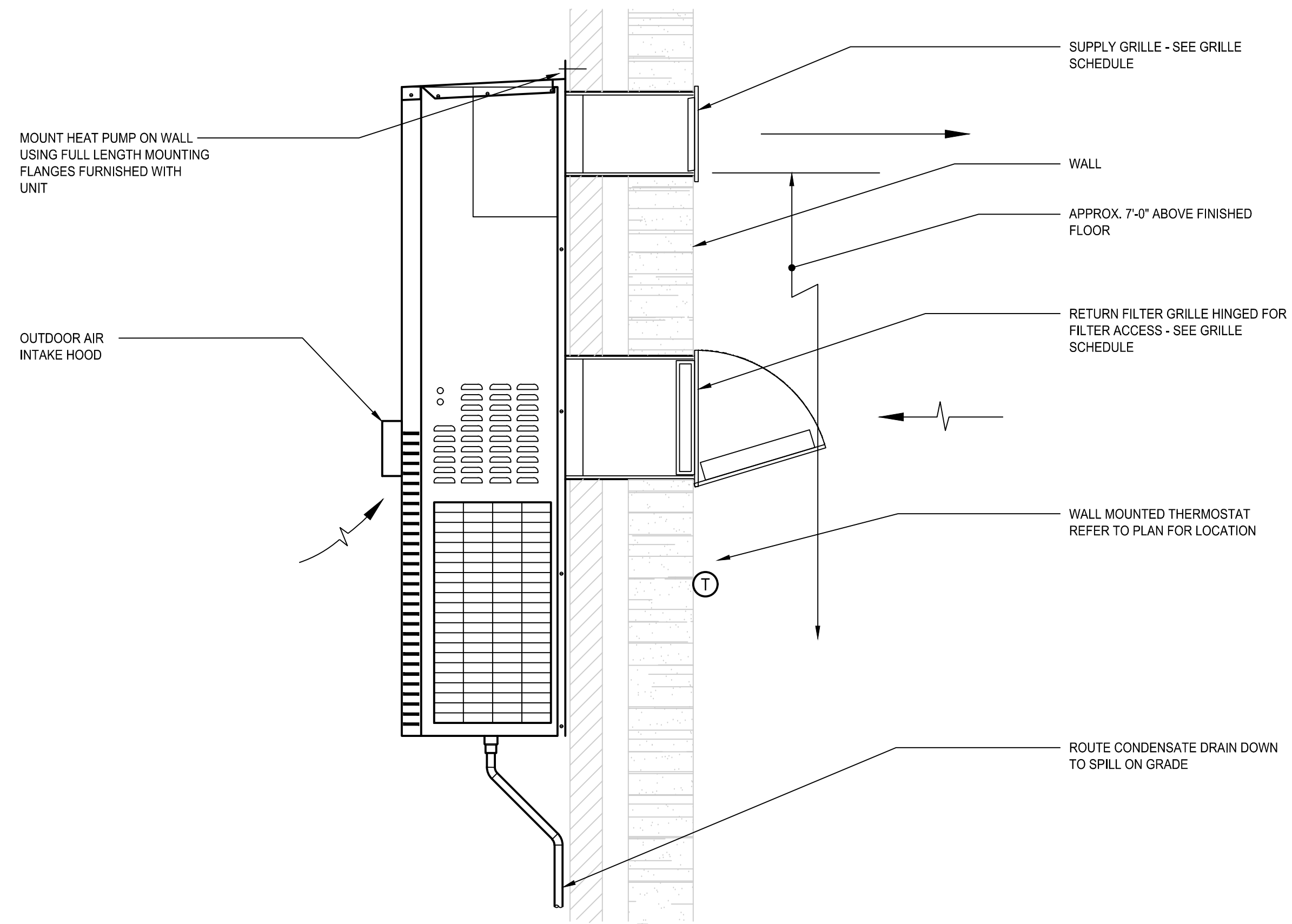
SHEET TITLE
MECHANICAL
LEGEND, NOTES AND
SCHEDULES

DATE
APRIL 18, 2017

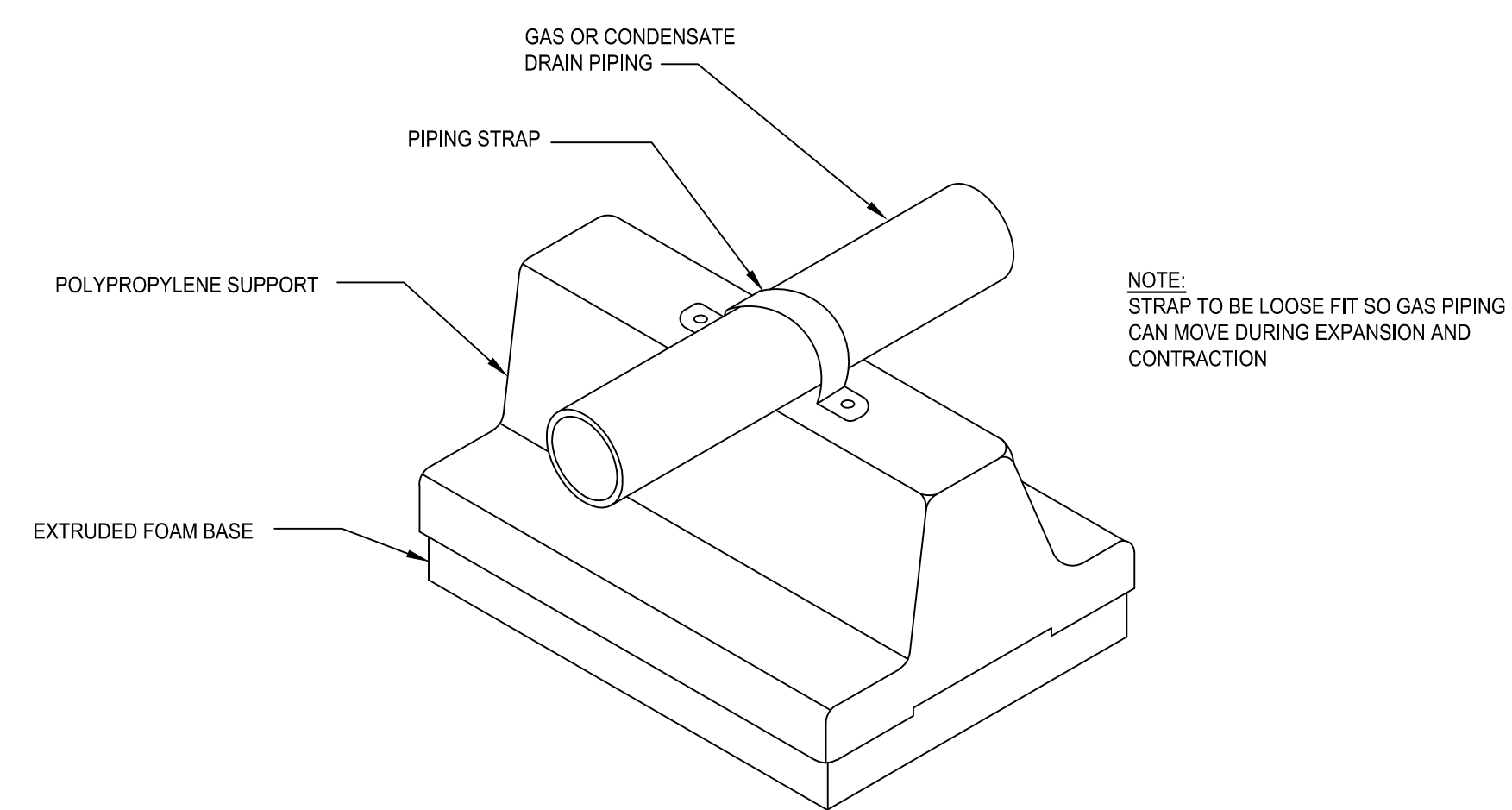
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M001

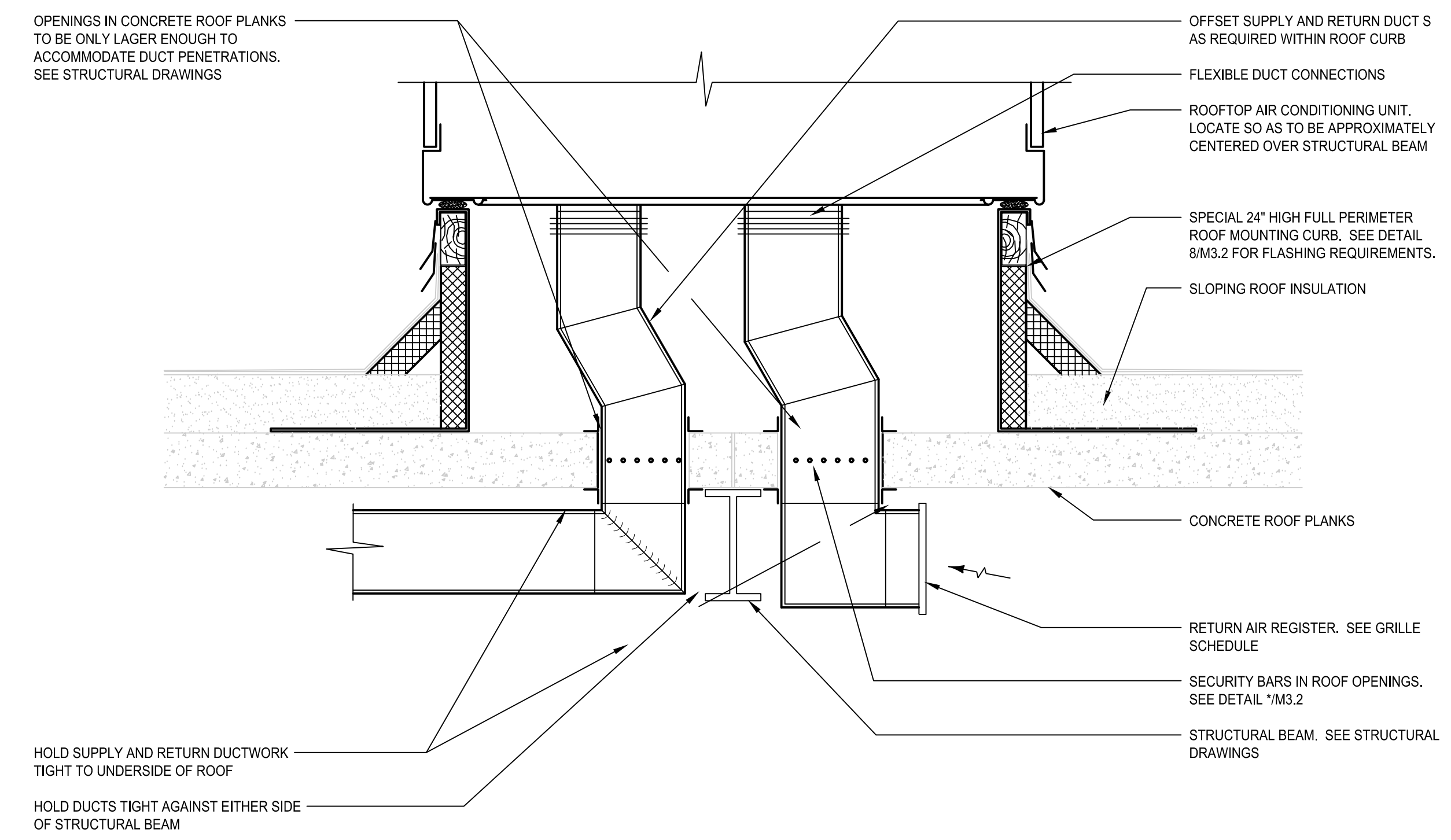


2 WALL MOUNT HEAT PUMP DETAIL
SCALE: NO SCALE

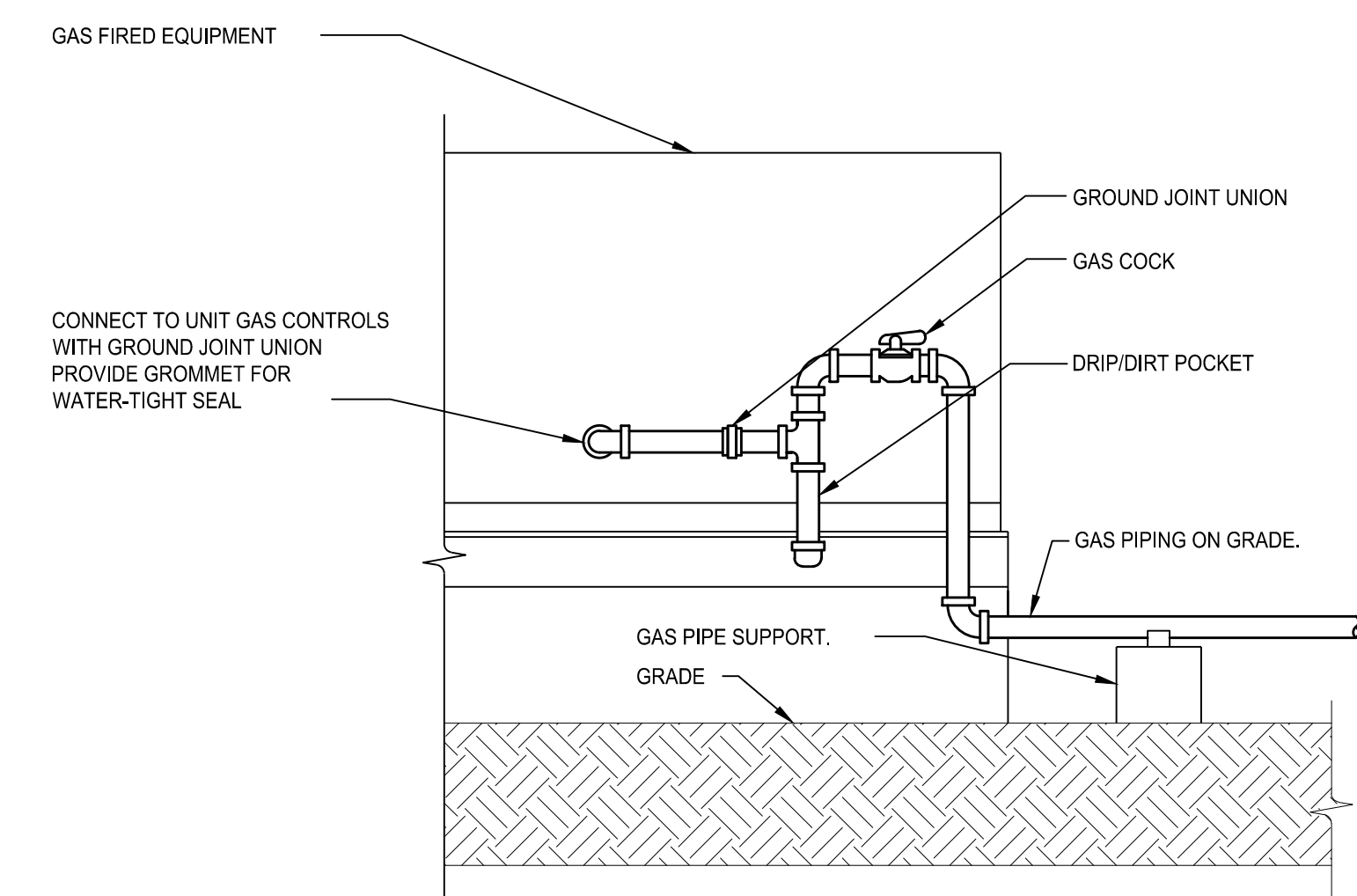


4 ROOF GAS PIPING SUPPORT DETAIL
SCALE: NO SCALE

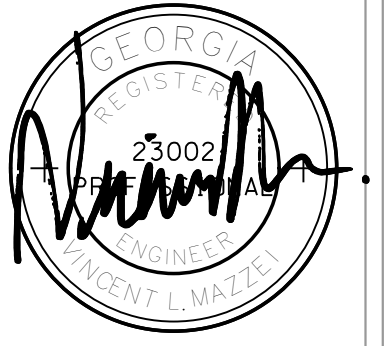
REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SPACING REQUIREMENTS AND STRAPPING FOR ELEVATION CHANGES. MANUFACTURED BY A BETTER IDEA INC. OR APPROVED EQUAL.



1 RTU MOUNTING DETAIL 10/001
SCALE: NO SCALE



3 TYPICAL GAS CONNECTION DETAIL
SCALE: NO SCALE



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HVAC RENOVATIONS
TO
INGRAM-PYE ELEMENTARY
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MECHANICAL DETAILS

DATE
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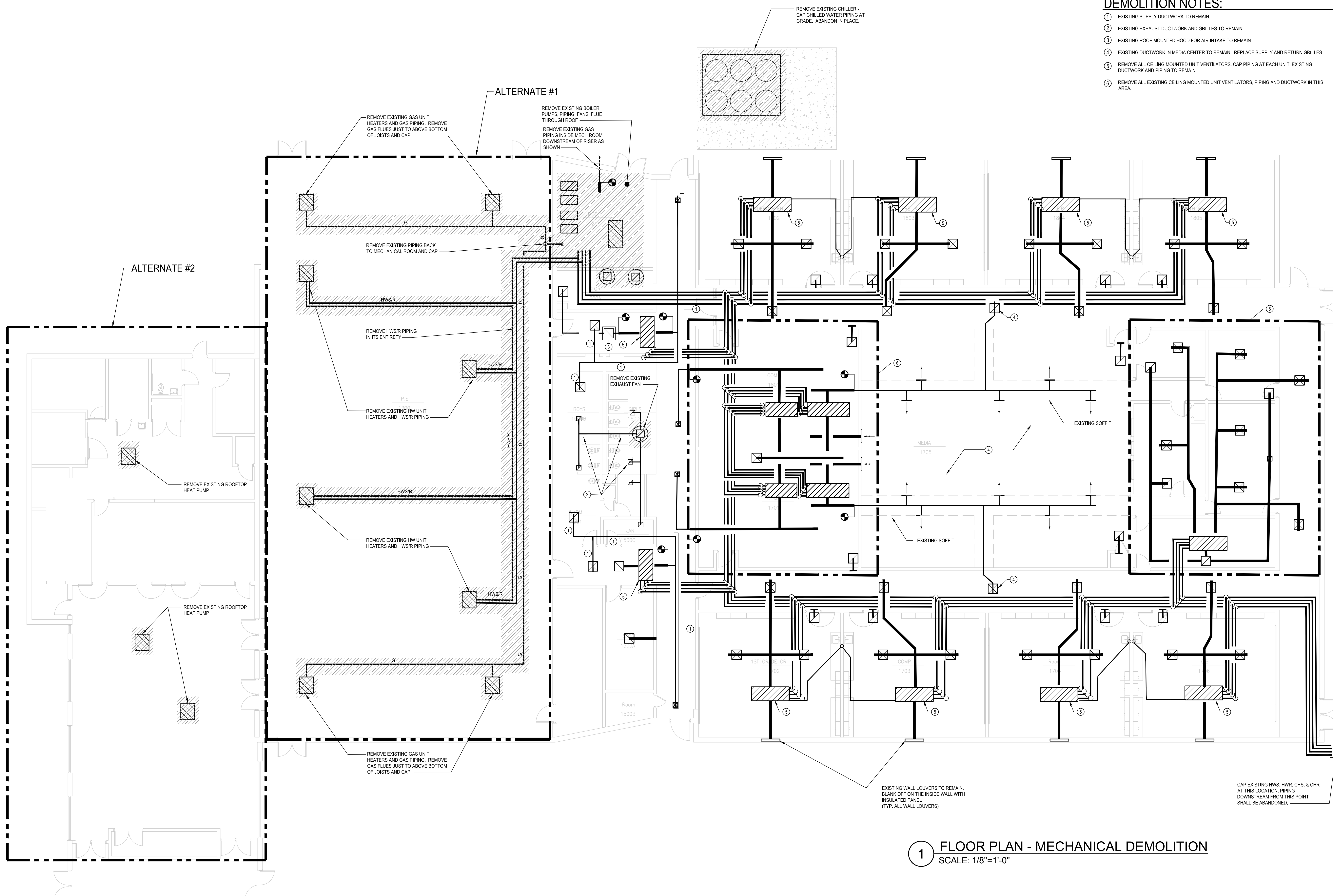
SHEET NUMBER
M002

NOTES:


BIBB COUNTY PERSONNEL WILL RECOVER REFRIGERANT R-22 PRIOR TO CONSTRUCTION. COORDINATE TIMING OF START OF CONSTRUCTION.

DEMOLITION NOTES:

- ① EXISTING SUPPLY DUCTWORK TO REMAIN.
- ② EXISTING EXHAUST DUCTWORK AND GRILLES TO REMAIN.
- ③ EXISTING ROOF MOUNTED HOOD FOR AIR INTAKE TO REMAIN.
- ④ EXISTING DUCTWORK IN MEDIA CENTER TO REMAIN. REPLACE SUPPLY AND RETURN GRILLES.
- ⑤ REMOVE ALL CEILING MOUNTED UNIT VENTILATORS. CAP PIPING AT EACH UNIT. EXISTING DUCTWORK AND PIPING TO REMAIN.
- ⑥ REMOVE ALL EXISTING CEILING MOUNTED UNIT VENTILATORS, PIPING AND DUCTWORK IN THIS AREA.

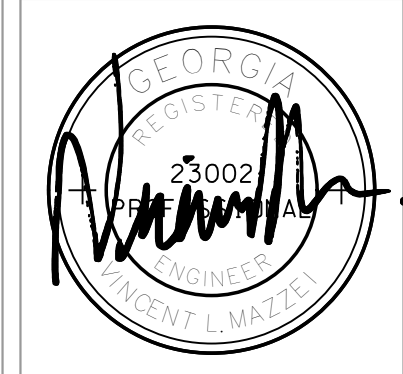


1 FLOOR PLAN - MECHANICAL DEMOLITION
SCALE: 1/8"=1'-0"




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HVAC RENOVATIONS TO
INGRAM-PYE ELEMENTARY
FOR THE BIBB COUNTY BOARD OF EDUCATION
BIBB COUNTY GEORGIA

PROJECT NO.
17-006

SHEET TITLE
INGRAM PYE
FLOOR PLAN -
MECHANICAL DEMOLITION

DATE
APRIL 18, 2017

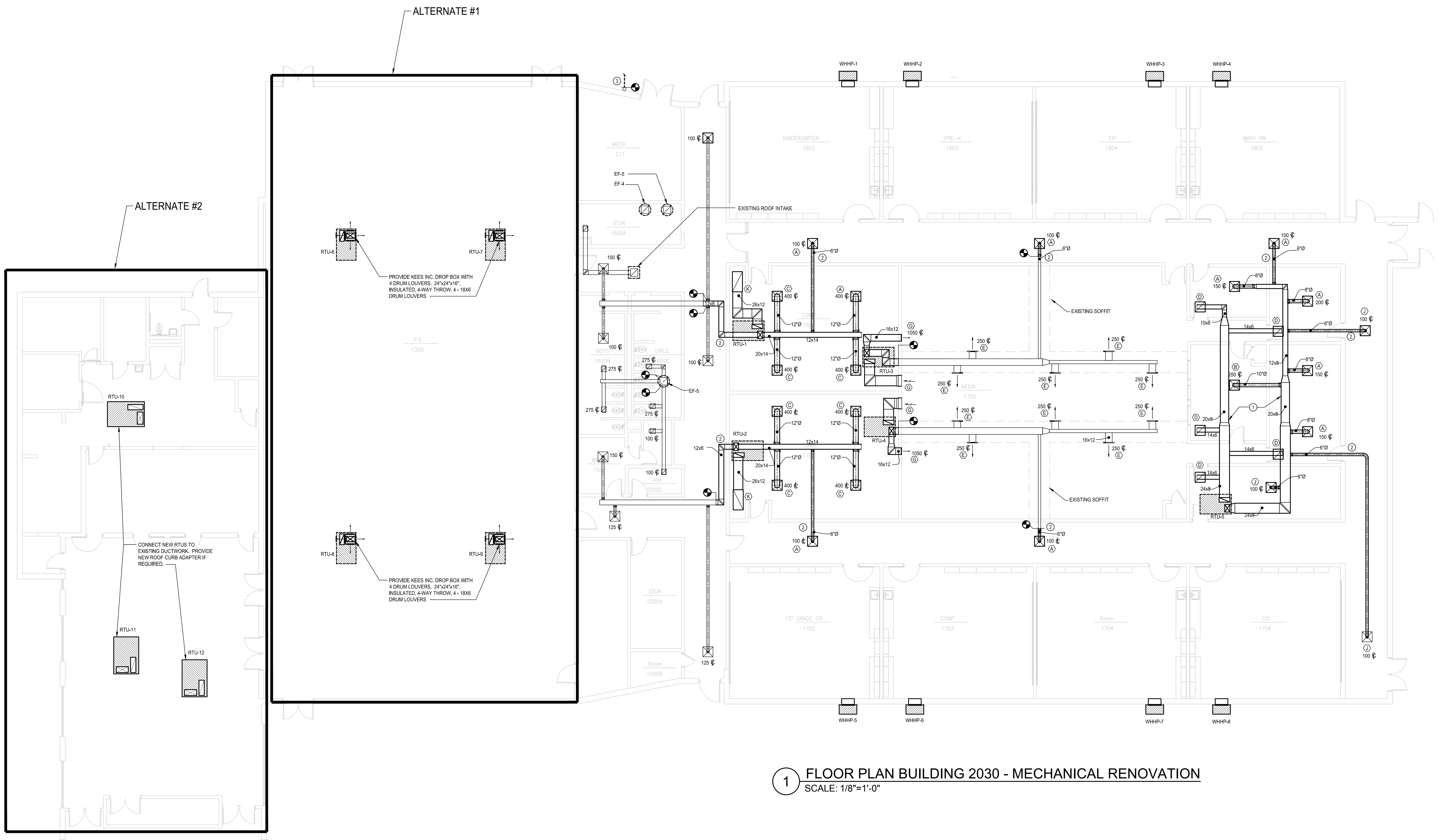
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SHEET NUMBER
M101

KEY NOTES:

- ① COORDINATE EXACT ROUTING OF SUPPLY AND RETURN DUCT FOR RTU-5.
- ② ALL DUCTWORK PENETRATING EXISTING CORRIDOR WALLS MUST BE SEALED TO MAINTAIN WALL RATING INTEGRITY.
- ③ 3" GAS PIPE UP ON EXTERIOR WALL. CONNECT TO EXISTING GAS PIPING AT THIS LOCATION.




1 FLOOR PLAN BUILDING 2030 - MECHANICAL RENOVATION
SCALE: 1/8"=1'-0"




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HVAC RENOVATIONS TO INGRAM-PYE ELEMENTARY
FOR THE BIBB COUNTY BOARD OF EDUCATION
BIBB COUNTY GEORGIA

PROJECT NO. 17-006
SHEET TITLE INGRAM-PYE FLOOR PLAN MECHANICAL RENOVATION
DATE APRIL 18, 2017
DRAWN BY SPJ
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SHEET NUMBER **M201**



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HVAC RENOVATIONS
TO
INGRAM-PYE ELEMENTARY
FOR THE BIBB COUNTY BOARD OF EDUCATION
BIBB COUNTY GEORGIA

PROJECT NO.
17-006

SHEET TITLE
INGRAM-PYE
ROOF PLAN MECHANICAL
RENOVATION

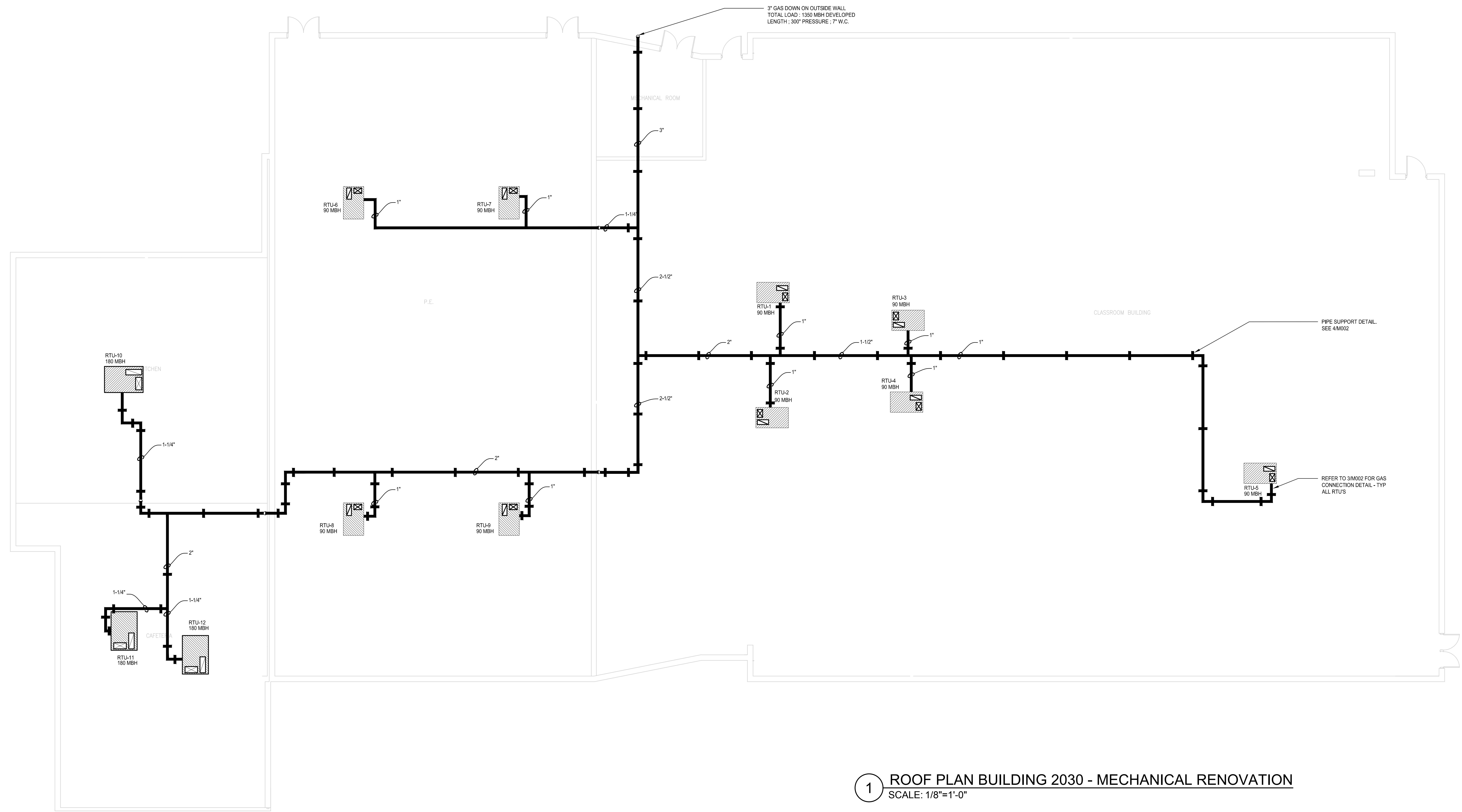
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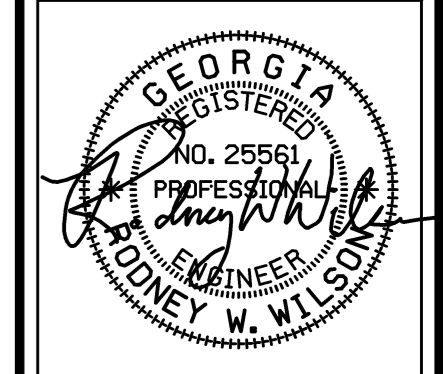
M202



1 ROOF PLAN BUILDING 2030 - MECHANICAL RENOVATION
SCALE: 1/8"=1'-0"

FLOOR PLAN NOTES:

- ① GAS PIPING: PROVIDE SUPPORTS MAX 12' APART AND WITHIN 3' FROM EACH ELBOW.
- ② CONDENSATE DRAIN: PROVIDE 1" PVC, TRAPPED CONDENSATE DRAIN PIPING FROM ROOFTOP UNIT TO CLOSET ROOF DRAIN OR GUTTER. PROVIDE PIPE SUPPORTS AT EVERY 6' AND WITHIN 2' FROM EACH ELBOW. REFER TO 4M002 FOR PIPE SUPPORT DETAIL.



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HVAC RENOVATIONS
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BIBB COUNTY GEORGIA

PROJECT NO.
17-006

SHEET TITLE

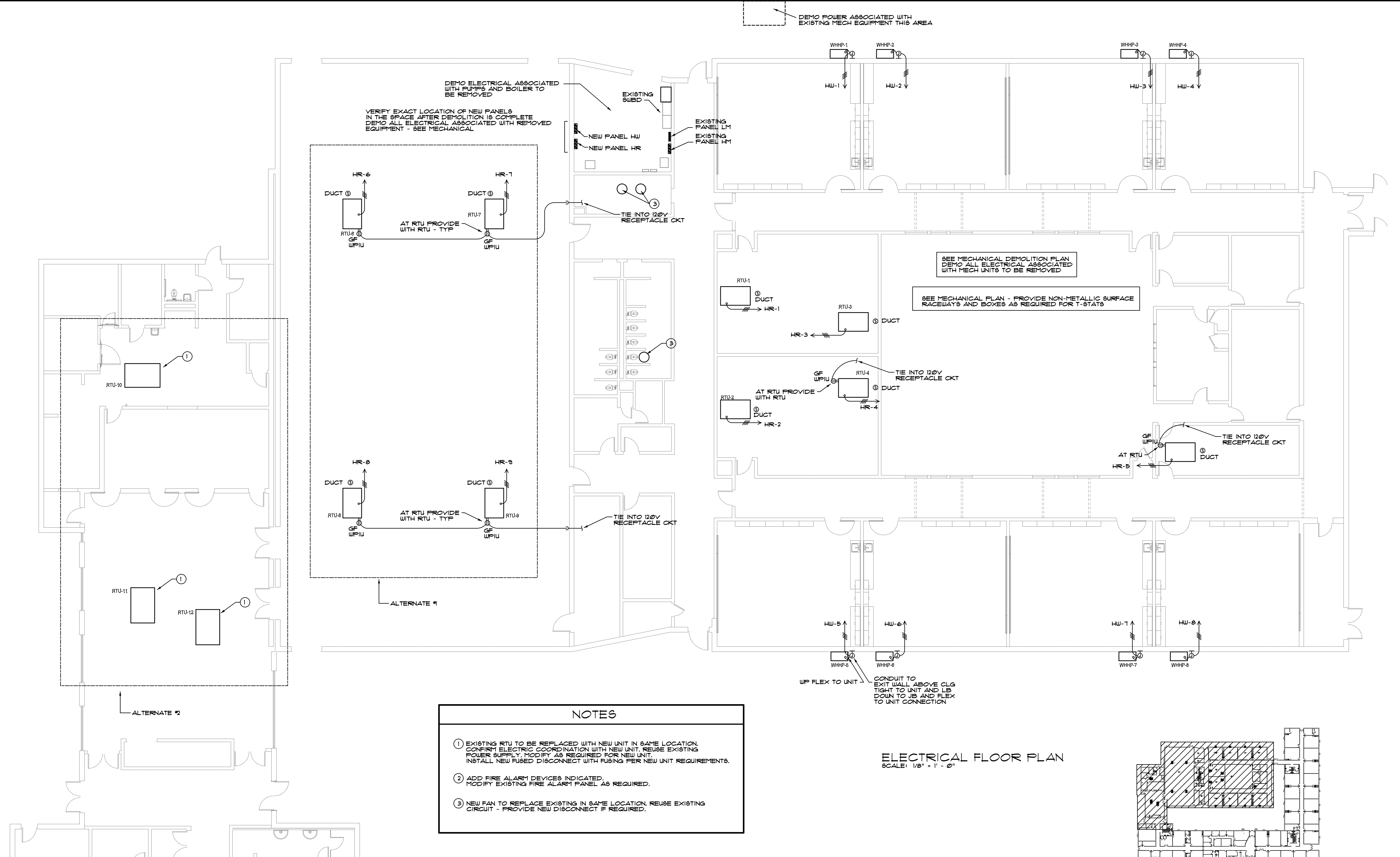
DATE
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SHEET NUMBER

E1.1



- NOTES**
- EXISTING RTU TO BE REPLACED WITH NEW UNIT IN SAME LOCATION. CONFIRM ELECTRIC COORDINATION WITH NEW UNIT. REUSE EXISTING POWER SUPPLY, MODIFY AS REQUIRED FOR NEW UNIT. INSTALL NEW FUSED DISCONNECT WITH FUSING PER NEW UNIT REQUIREMENTS.
 - ADD FIRE ALARM DEVICES INDICATED. MODIFY EXISTING FIRE ALARM PANEL AS REQUIRED.
 - NEW FAN TO REPLACE EXISTING IN SAME LOCATION. REUSE EXISTING CIRCUIT - PROVIDE NEW DISCONNECT IF REQUIRED.

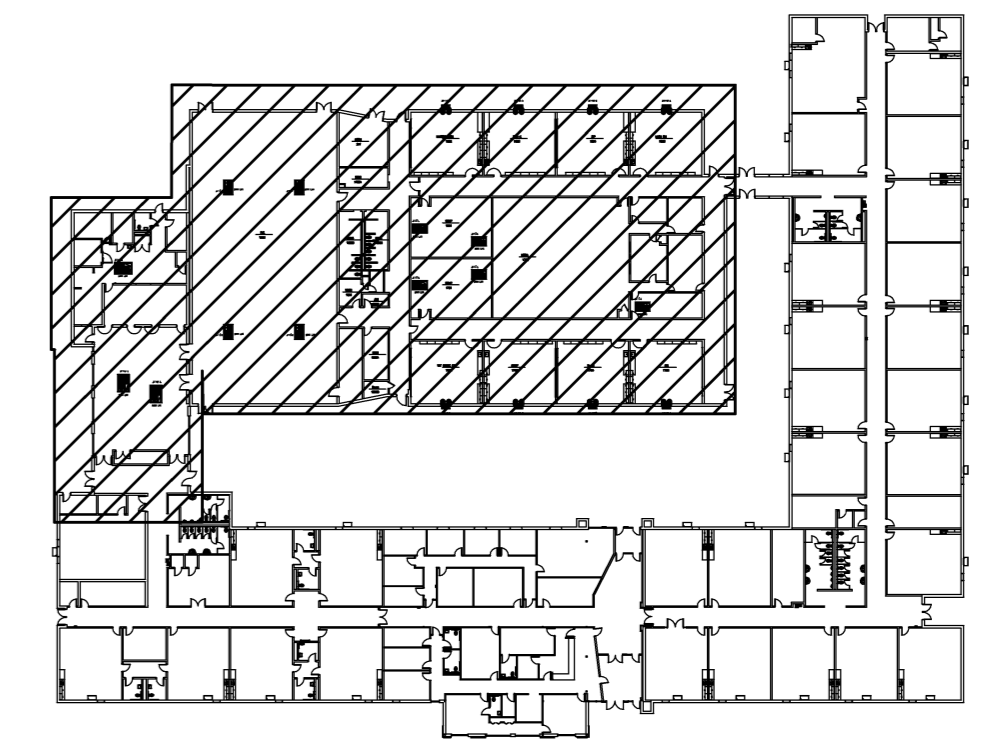
PANELBOARD SCHEDULE

PANEL	CKT #	CIRCUIT BREAKER	SERVICE	KW	WIRE	COND'T
HW 480Y/277V 3P, 4W 225A MLO SURFACE NEMA 1 14KAIC	1-8	20A/3P	WHHP 1 THRU 8	56.0	10	1/2
	9-16	20A/1P	SPARES	-	-	-
	17-25	--A/1P	SPACES ONLY	-	-	-

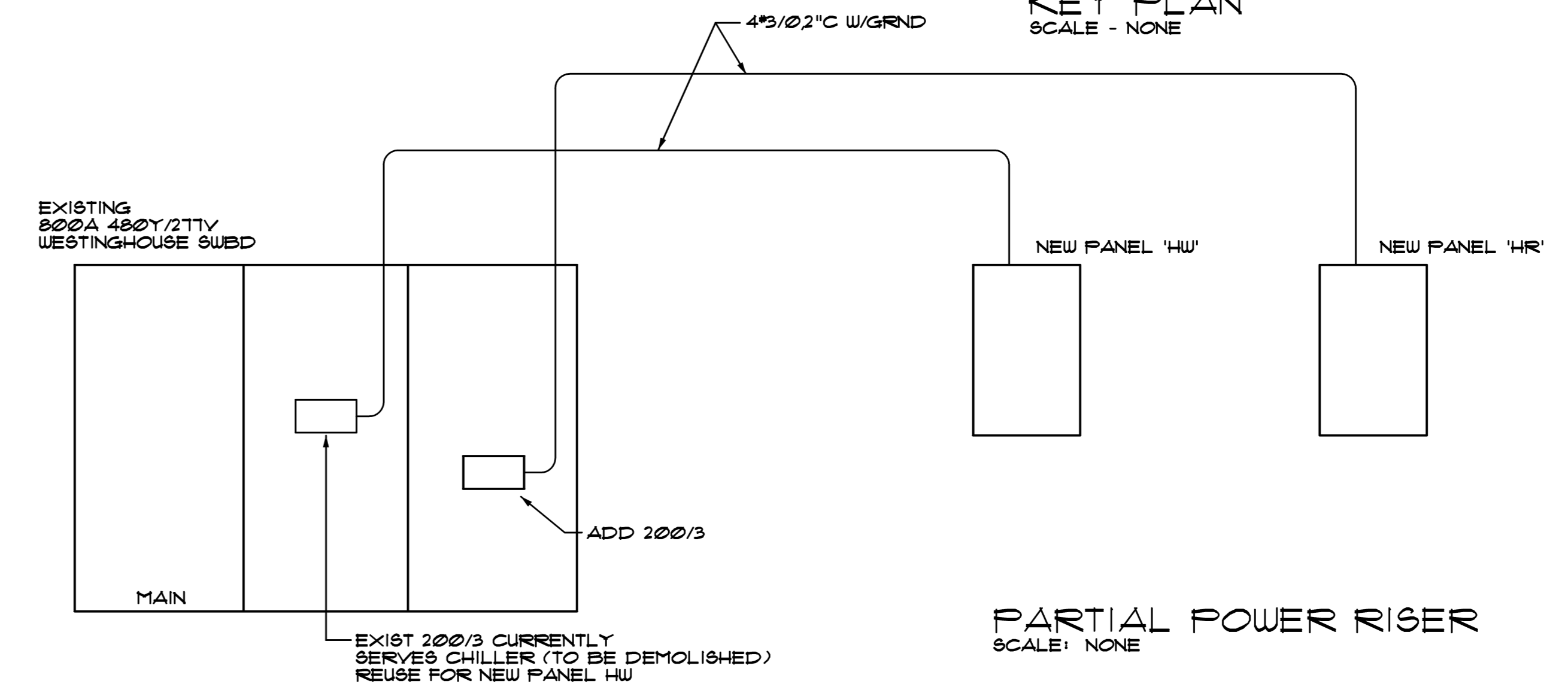
PANELBOARD SCHEDULE

PANEL	CKT #	CIRCUIT BREAKER	SERVICE	KW	WIRE	COND'T
HR 480Y/277V 3P, 4W 225A MLO SURFACE NEMA 1 14KAIC	12	20A/3P	RTU- 1, RTU-2	29.0	12	1/2
	3,4	25A/3P	RTU-3, RTU-4	25.0	12	1/2
	5	15A/3P	RTU-5	10.0	12	1/2
	6-9	20A/3P	RTU-6,7,8,9	40.0	12	1/2
	10-24	20A/1P	SPARES	--	--	--

ELECTRICAL FLOOR PLAN
SCALE: 1/8" = 1' - 0"



KEY PLAN
SCALE - NONE



PARTIAL POWER RISER
SCALE: NONE