



Roof Recover/ Replacement for Bartlett Freshman Academy

4734 Shadowlawn Rd, Arlington, TN 38002



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ETFC PROJECT NO: 22442

DATE: 03 March, 2025

ver: bcooper

Drawing File Name

Bartlett City Schools

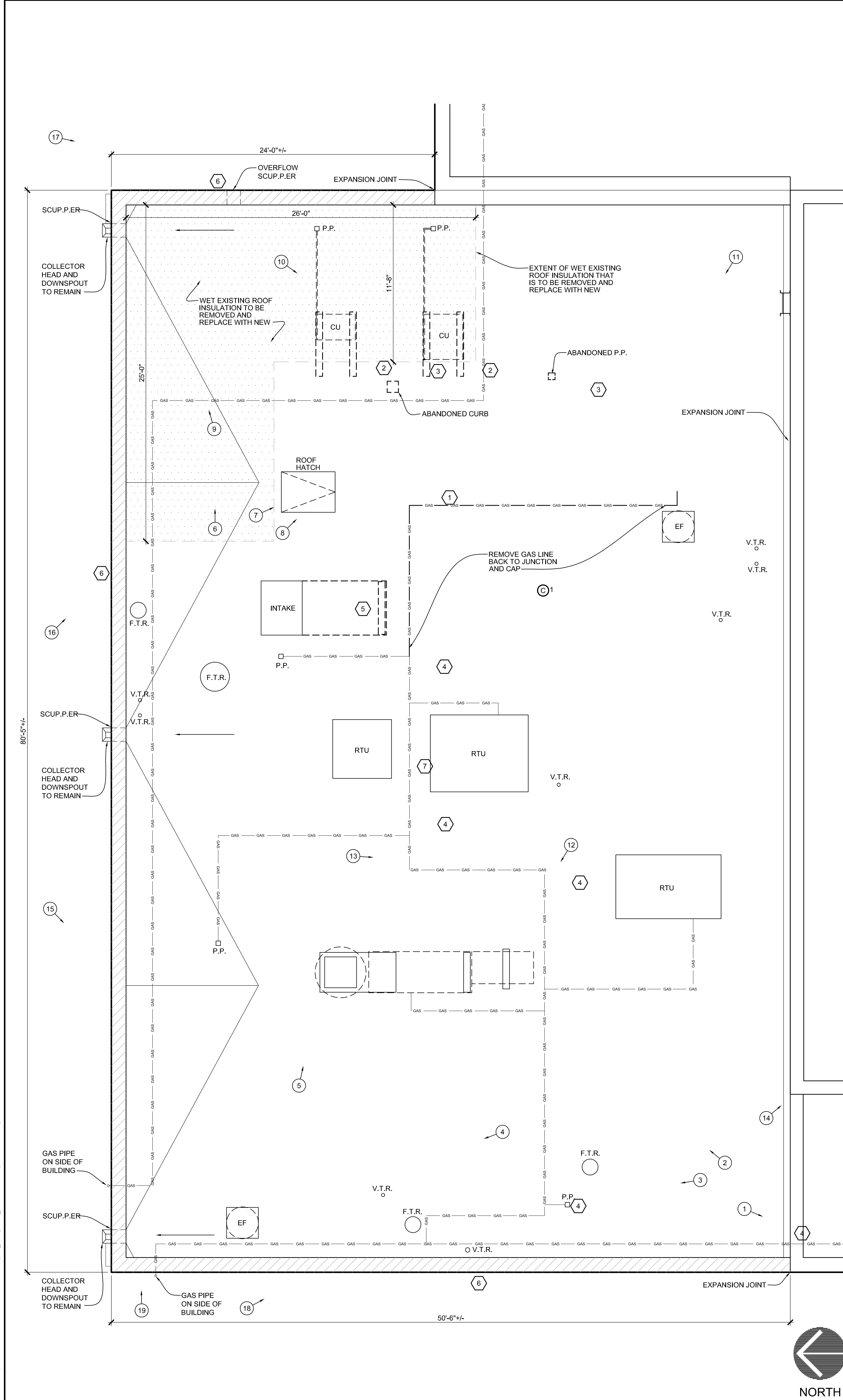


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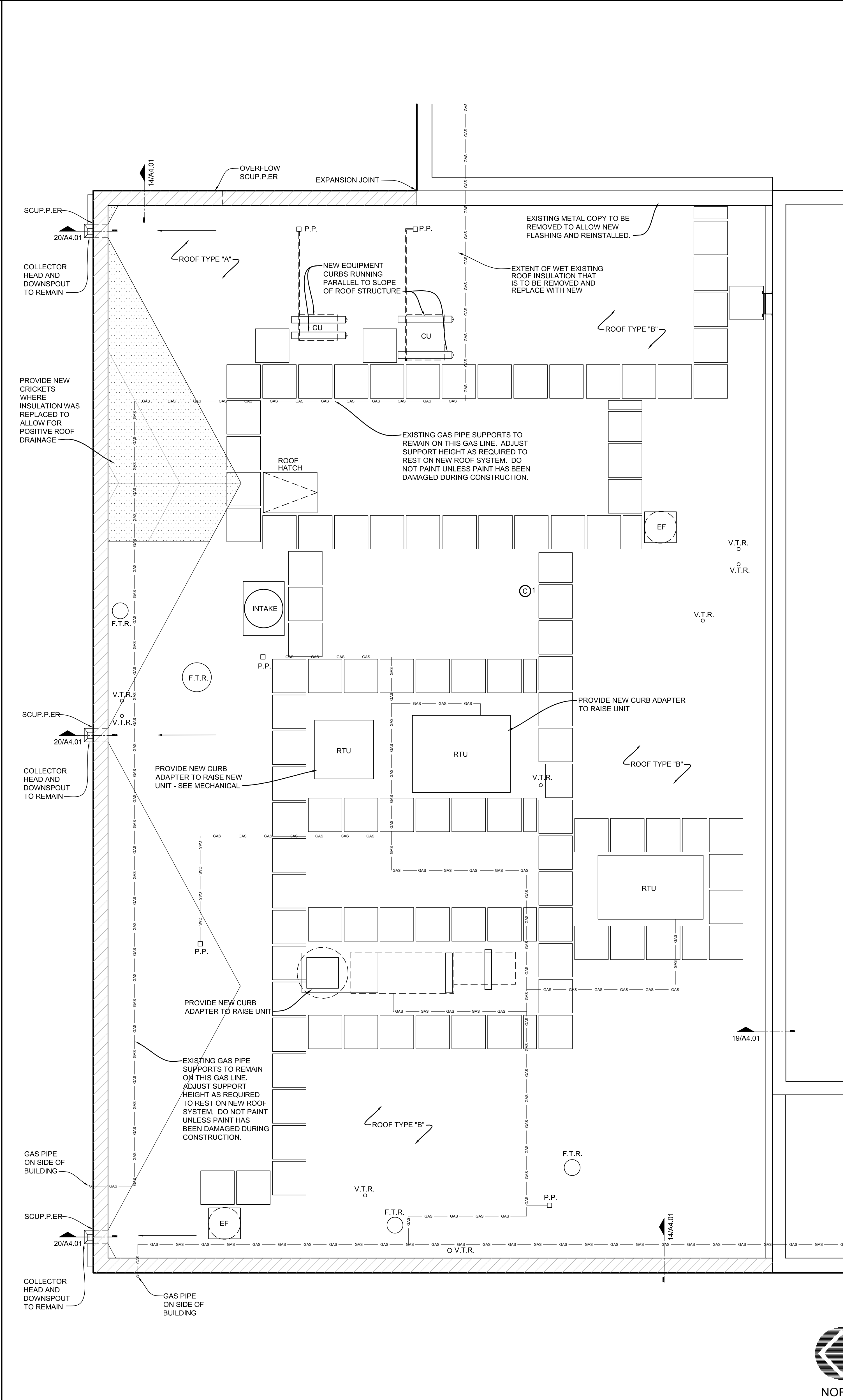
Drawing Number:

Date:	Project Number:
3 March 2025	22422

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1	EXISTING/DEMO KITCHEN ROOF PLAN
1/4" = 1'-0"	



2	PROPOSED KITCHEN ROOF PLAN
1/4" = 1'-0"	

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, QUANTITIES AND INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS AND REPORT ALL DISCREPANCIES OR CONFLICTS TO THE DESIGNER.
- METAL COPING AND WOOD BLOCKING TO ALL BE REPLACED WHERE SHOWN WITH NEW AND TO HAVE EXPANSION JOINTS / CONTROL JOINTS AS REQUIRED BY MANUFACTURER AND RECOMMENDED BY THE CURRENT SMACNA MANUAL.
- NO FACE NAILING ALLOWED AT CAP FLASHING.
- ALL EXISTING ROOF VENTS, EXHAUST CAPS, EXPOSED PIPING AND OTHER ROOF PENETRATIONS TO BE PAINTED TO MATCH ROOF COLOR. VERIFY COLOR WITH DESIGNER.
- SEE DETAIL 7/A4.01 FOR TYPICAL LAYOUT OF ROOF WALKWAY PADS.
- INSTALL WALKWAY PROTECTION PADS UNDER ANY OBJECT THAT WILL REST ON THE ROOF INCLUDING BUT NOT LIMITED TO PIPE STANDS, CONDUIT STANDS, CONDUIT, HVAC SUPPORTS, EQUIPMENT PADS ETC.
- REPLACE ALL PIPE SUPPORTS WITH NEW PIPE SUPPORTS EXCEPT WHERE NOTED OTHERWISE. DETAIL 8/A4.01
- ALL GAS PIPING ARE TO BE PAINTED EXCEPT WHERE NOTED OTHERWISE. CLEAN & PRIME AS REQUIRED FOR PAINT.
- RESTORE ALL LAWNS AND LANDSCAPING TO ORIGINAL CONDITION. ANY AREAS OF LAWN NOT SUPPORTING A STAND OF GRASS AT SUBSTANTIAL COMPLETION WILL BE SOODED AT NO ADDITIONAL COST TO THE OWNER.
- ALL ROOF PENETRATIONS SHALL BE FLUSHED/SEALED AS PER ROOFING MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. CONTRACTOR VERIFY AND COORDINATE.

ROOF TYPE "A":
AREAS IDENTIFIED AS HAVING WET INSULATION. EXISTING CONSTRUCTION (2 PLY MODIFIED BITUMEN MOPPED OVER 1/2" WOOD FIBER ROOF INSULATION, 2.5" ISO ROOF INSULATION, 1" PERLITE ROOF INSULATION) OVER SLOPING STRUCTURAL METAL ROOF DECK SUBSTRATE:

- REMOVE EXISTING ROOFING MEMBRANE AND FLASHING SYSTEM, DOWN TO THE EXISTING STRUCTURAL METAL ROOF DECK.
- PROVIDE NEW BASE POLYISOCYANURATE RIGID INSULATION BOARD OVER EXISTING STRUCTURAL METAL ROOF DECK. THICKNESSES AS SHOWN ON THE DRAWINGS. WHERE THICKNESSES EXCEED 4 INCHES, USE TWO LAYERS, MECHANICALLY ATTACH TO METAL DECK.
- PROVIDE NEW 1/2 INCH THICK FIBERGLASS-MAT FACE GYPSUM ROOF COVER BOARD FULLY ADHERED OVER NEW BASE LAYER POLYISOCYANURATE INSULATION USING TWO-PART URETHANE ADHESIVE.
- PROVIDE NEW 2 PLY FULLY ADHERED MODIFIED BITUMEN ROOF MEMBRANE
- PROVIDE NEW MODIFIED BITUMEN ROOFING WALK PADS (COLOR BY ARCHITECT) OVER MEMBRANE WITH COLD APPLIED ADHESIVE. REFER TO DRAWINGS FOR LOCATIONS.

ROOF TYPE "B":
EXISTING CONSTRUCTION (2 PLY MODIFIED BITUMEN MOPPED OVER 1/2" WOOD FIBER ROOF INSULATION, 2.5" ISO ROOF INSULATION, 1" PERLITE ROOF INSULATION) OVER SLOPING STRUCTURAL METAL ROOF DECK SUBSTRATE:

- PROVIDE NEW 1/2 INCH THICK FIBERGLASS-MAT FACE GYPSUM ROOF COVER BOARD FULLY ADHERED OVER EXISTING ROOF SYSTEM.
- PROVIDE NEW 2 PLY FULLY ADHERED MODIFIED BITUMEN ROOF MEMBRANE
- PROVIDE NEW MODIFIED BITUMEN ROOFING WALK PADS (COLOR BY ARCHITECT) OVER MEMBRANE WITH COLD APPLIED ADHESIVE. REFER TO DRAWINGS FOR LOCATIONS.

7	GENERAL NOTES
NO SCALE	

ROOF CORES
ROOF CORES LISTED FOR REFERENCE.
CORE #1 - 4.5" TOTAL, 2 PLY MODIFIED BITUMEN MOPPED, 1/2" WOOD FIBER ROOF INSULATION, 2.5" ISO ROOF INSULATION, 1" PERLITE ROOF INSULATION, SLOPING METAL DECK

6	ROOF CORE INFORMATION
NO SCALE	

LEGEND	
	30' x 30' ROOF WALKWAY PADS. SPACE PADS 2' APART, TYPICAL. SEE DETAIL 7/A4.01
	TAPERED ROOF INSULATION TO ALLOW DRAINAGE TO ROOF DRAINS. REFER TO DRAWING FOR AMOUNT OF SLOPE
	INDICATES TOTAL THICKNESS OF ROOF INSULATION, BOTH TAPERED AND BASE
	ROOFTOP EXHAUST FAN SEE 2/A4.01
	VENT THRU ROOF SEE 11/A4.01
	ROOF DRAIN SEE 10/A4.01
	GAS LINES SEE 8/A4.01
	DASHED LINES INDICATE ITEMS ABOVE ROOF SURFACE (CONDENSATE LINES, PIPING, DUCTING, ETC.) SEE 5/A4.01
	CONDUIT THRU ROOF 16/A4.01
	RTU ROOF TOP UNIT SEE 2/A4.01
	PP PENETRATION POCKET
	FTR FLUE THRU ROOF SEE 12/A4.01
	DS EXISTING DOWNSPOUT
	10 PHOTOGRAPHS. SEE A3 SHEETS
	C LOCATION OF CORE SAMPLE.

5	LEGEND
NO SCALE	

DEMOLITION KEYNOTES	
1 REMOVE EXISTING GAS LINE AS INDICATED	5 REMOVE EXISTING FRESH AIR HOOD AND REPLACE WITH NEW - SEE MECHANICAL.
2 REMOVE EXISTING EQUIPMENT CURBS DOWN TO STRUCTURE - REFER TO PROPOSED FOR NEW CURBS AND ORIENTATION.	6 HATCH INDICATES EXTENTS OF COPING AND BLOCKING TO BE REPLACED.
3 REMOVE ABANDONED PENETRATIONS DOWN TO ROOF DECK	7 RTU TO BE REPLACED (SEE MECH.) NEW CURB ADAPTER TO BE INSTALLED TO RAISE NEW UNIT.
4 REPLACE ALL SUPPORTS ON GAS LINES CONNECTED TO THIS PIPE ON THE KITCHEN ROOF.	

4	EXISTING ROOF PLAN DEMOLITION KEYNOTES
NO SCALE	

- REMOVE ALL EXISTING PREFINISHED METAL COPING AND ASSOCIATED WOOD BLOCKING COMPLETELY. REMOVE EXISTING PITCH POCKETS AND VENT BOOTS.
- EXISTING ROOFTOP MECHANICAL UNITS AND / OR EQUIPMENT AND THEIR ASSOCIATED CURBS AND METAL FLASHINGS ARE TO REMAIN UNLESS OTHERWISE NOTED. REMOVE EXISTING SINGLE-PLY FLASHING SYSTEMS INCLUDING EXPANSION JOINTS AND REFLASH AS REQUIRED WITH NEW SYSTEMS AS SPECIFIED.
- PROVIDE TEMPORARY DRAINAGE OF ANY EXISTING CONDENSATE LINES OR ANY OTHER EQUIPMENT THAT MAY BE DRAINED TO THE ROOF DURING NORMAL OPERATION DURING DEMOLITION AND NEW ROOF CONSTRUCTION.
- PROTECT ALL ROOFTOP EQUIPMENT WIRING, CABLES, CONDUIT, GAS PIPING, ETC. DURING DEMOLITION AND NEW CONSTRUCTION UNLESS NOTED OTHERWISE.
- REMOVE ALL EXISTING DEBRIS AND DISCARDED ROOFING MATERIALS FROM ROOF.
- WHERE LOCATED, EXISTING PIPE SUPPORTS TO BE REPLACED WITH NEW PIPE SUPPORTS WITH A ROOF PROTECTION PAD INSTALLED UNDER EACH. EXISTING PIPE SUPPORTS AS INDICATED TO REMAIN AND A ROOF PROTECTION PAD INSTALLED UNDER EACH. PAINT ALL GAS LINES ON KITCHEN ROOF UNLESS NOTED OTHERWISE.
- DURING ROOF DEMOLITION CONTRACTOR IS TO EXAMINE & VERIFY THAT ALL VENT THRU ROOF (VTR) ARE IN GOOD CONDITION AND NOT DAMAGED BELOW ROOF LEVEL. ANY VTR THAT IS DAMAGED IS TO BE REPAIRED.
- WHERE OCCURS, REMOVE EXISTING ABANDONED MECHANICAL EQUIPMENT CURB AND SHEET METAL COVER DOWN TO EXISTING STRUCTURAL METAL ROOF DECK COMPLETELY. PROVIDE NEW ROOF DECK TO COVER OPENING 6" LARGER THAN OPENING MINIMUM. 1/4" SELF TAPING FASTENERS AT 12" O.C. AND SEAL FULL PERIMETER.
- PROTECT ALL ROOFTOP EQUIPMENT WIRING, CABLES, CONDUIT, GAS PIPING, ETC. DURING DEMOLITION AND NEW CONSTRUCTION.
- AT ALL ROOF OPENINGS, OPENINGS ARE TO BE PROTECTED DURING CONSTRUCTION. ALL OPENINGS ARE TO BE SECURELY CLOSED AT THE END OF EACH WORK DAY AND ARE TO BE WEATHER TIGHT. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES.

3	EXISTING ROOF PLAN DEMOLITION NOTES
NO SCALE	

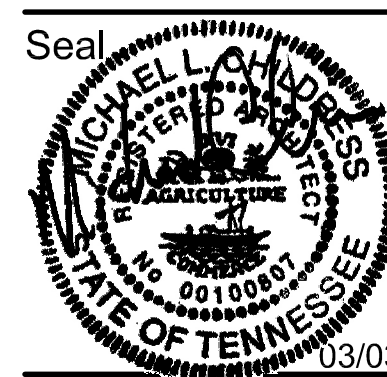
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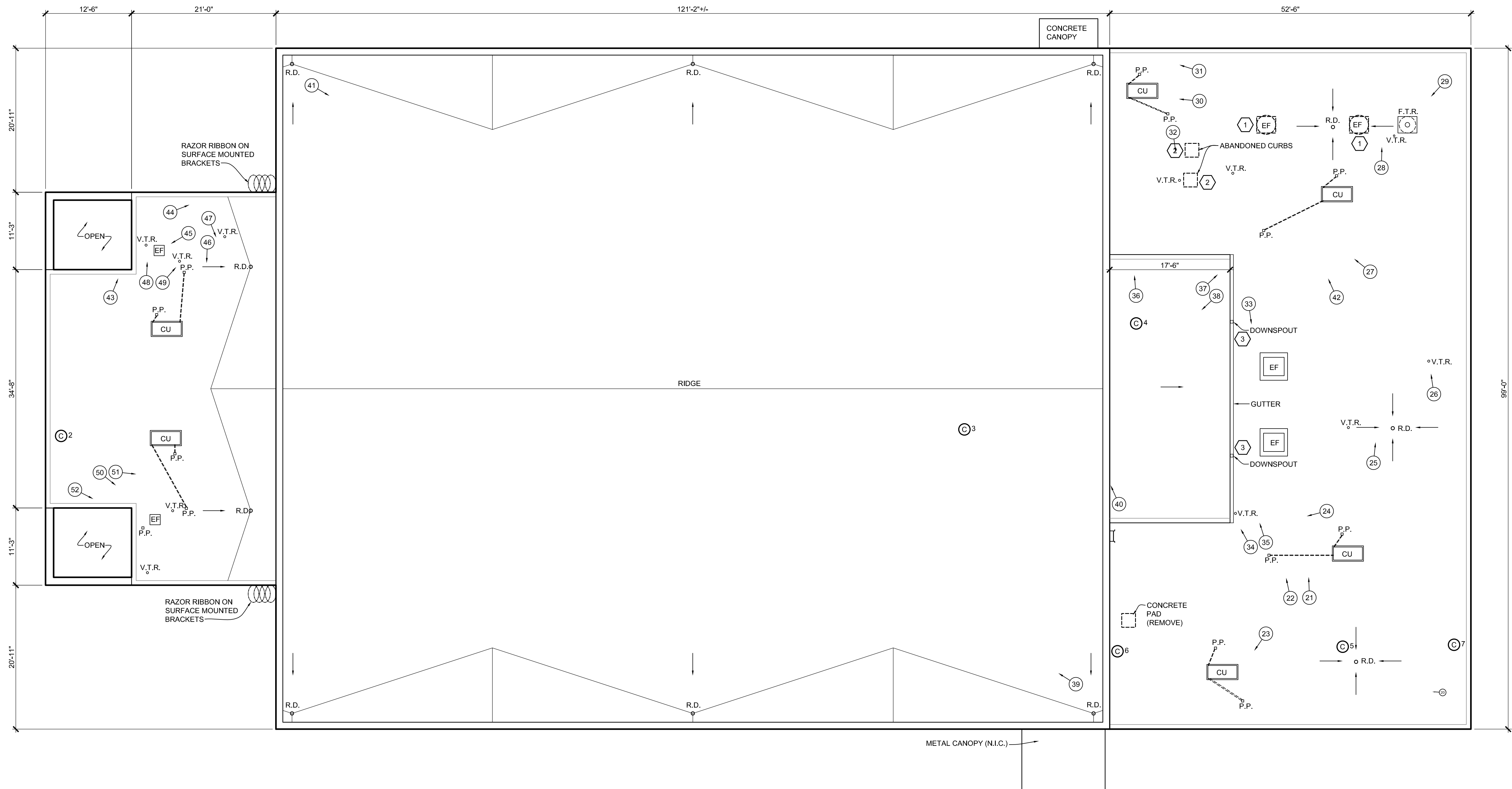
Kitchen Roof Plans
- Architectural

Drawing Number:

A1.1

Date: 3 March 2025
Project Number: 22422

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ROOF CORES
ROOF CORES LISTED FOR REFERENCE.
CORE #2 - 5.5' TOTAL (THICKNESS VARIES ON THIS ROOF), 2 PLY MODIFIED BITUMEN MOPPED, TAPERED PERLITE ROOF INSULATION OVER STRUCTURAL CONCRETE DECK
CORE #3 - 2' TOTAL, 2 PLY MODIFIED BITUMEN, 1/2" PERLITE INSULATION MOPPED, 1" ISO INSULATION MOPPED, 28# FIBERGLASS BASESHEET OVER CEMENT/CLAY WOOD FIBER DECK
CORE #4 - 5' TOTAL (THICKNESS VARIES ON THIS ROOF), 2 PLY MODIFIED BITUMEN MOPPED, 1 1/2" PERLITE INSULATION MOPPED, 3 1/2" TAPERED LIGHTWEIGHT INSULATED CONCRETE OVER STRUCTURAL CONCRETE DECK
CORE #5 - 3' TOTAL, 2 PLY MODIFIED BITUMEN MOPPED, 1" PERLITE INSULATION MOPPED, 28# FIBERGLASS BASE SHEET, 1 1/2" TAPERED LIGHTWEIGHT INSULATED CONCRETE OVER STRUCTURAL CONCRETE DECK
CORE #6 - 5 1/2" TOTAL, 2 PLY MODIFIED BITUMEN MOPPED, 1" PERLITE INSULATION MOPPED, 28# FIBERGLASS BASE SHEET, 4" TAPERED LIGHTWEIGHT INSULATED CONCRETE OVER STRUCTURAL CONCRETE DECK
CORE #7 - 5' TOTAL, 2 PLY MODIFIED BITUMEN MOPPED, 1" PERLITE INSULATION MOPPED, 28# FIBERGLASS BASE SHEET, 3 1/2" TAPERED LIGHTWEIGHT INSULATED CONCRETE OVER STRUCTURAL CONCRETE DECK

6	ROOF CORE INFORMATION
NO SCALE	-
LEGEND	
	CONDUIT THRU ROOF 16/A4.01
	RTU ROOF TOP UNIT SEE 2/A4.01
	CU CONDENSING UNIT SEE 2/A4.01
	PP PENETRATION POCKET SEE 21/A4.01
	FTR FLUE THRU ROOF SEE 12/A4.01
	DS EXISTING DOWNSPOUT
	10 PHOTOGRAPHS. SEE A3 SHEETS
	C LOCATION OF CORE SAMPLE.

5	LEGEND
NO SCALE	-
DEMOLITION KEYNOTES	
1	REMOVE EXISTING EXHAUST FANS AND COVER EXISTING HOLES PER DEMOLITION NOTE 8 BELOW.
2	REMOVE ABANDONED PENETRATIONS DOWN TO ROOF DECK
3	GUTTERS AND DOWNSPOUTS TO BE REMOVED. NEW 5x5 GUTTERS AND DOWNSPOUTS TO BE INSTALLED.

4	EXISTING ROOF PLAN DEMOLITION KEYNOTES
NO SCALE	-
EXISTING ROOF PLAN DEMOLITION KEYNOTES	
1.	REMOVE ALL EXISTING PREFINISHED METAL COPING AND ASSOCIATED WOOD BLOCKING COMPLETELY. REMOVE EXISTING PITCH POCKETS AND VENT BOOTS.
2.	EXISTING ROOFTOP MECHANICAL UNITS AND / OR EQUIPMENT AND THEIR ASSOCIATED CURBS AND METAL FLASHINGS ARE TO REMAIN UNLESS OTHERWISE NOTED. REMOVE EXISTING SINGLE-PLY FLASHING SYSTEMS INCLUDING EXPANSION JOINTS AND REFLASH AS REQUIRED WITH NEW SYSTEMS AS SPECIFIED.
3.	PROVIDE TEMPORARY DRAINAGE OF ANY EXISTING CONDENSATE LINES OR ANY OTHER EQUIPMENT THAT MAY BE DRAINING TO THE ROOF DURING NORMAL OPERATION DURING DEMOLITION AND NEW ROOF CONSTRUCTION.
4.	PROTECT ALL ROOFTOP EQUIPMENT WIRING, CABLES, CONDUIT, GAS PIPING, ETC. DURING DEMOLITION AND NEW CONSTRUCTION UNLESS NOTED OTHERWISE.
5.	REMOVE ALL EXISTING DEBRIS AND DISCARDED ROOFING MATERIALS FROM ROOF.
6.	WHERE LOCATED, EXISTING PIPE SUPPORTS TO BE REPLACED WITH NEW PIPE SUPPORTS WITH A ROOF PROTECTION PAD UNDER EACH. PAINT ALL GAS LINES ON ROOF.
7.	DURING ROOF DEMOLITION CONTRACTOR IS TO EXAMINE & VERIFY THAT ALL VENT THRU ROOF (VTR) ARE IN GOOD CONDITION AND NOT DAMAGED BELOW ROOF LEVEL. ANY VTR THAT IS DAMAGED IS TO BE REPAIRED.
8.	WHERE OCCURS, REMOVE EXISTING ABANDONED MECHANICAL EQUIPMENT CURB AND SHEET METAL COVER DOWN TO EXISTING STRUCTURAL CONCRETE ROOF DECK COMPLETELY. PROVIDE NEW 36" STEEL PLATE OVER TOP OF EXISTING OPENING IN ROOF DECK. PLATE TO BE 6" LARGER THAN OPENING ON EACH SIDE. ANCHOR PLATE TO EXISTING STRUCTURAL CONCRETE ROOF DECK WITH 1/4" EXPANSION BOLTS AT 12" O.C. AND SEAL FULL PERIMETER.
9.	PROTECT ALL ROOFTOP EQUIPMENT WIRING, CABLES, CONDUIT, GAS PIPING, ETC. DURING DEMOLITION AND NEW CONSTRUCTION.
10.	AT ALL ROOF OPENINGS, OPENINGS ARE TO BE PROTECTED DURING CONSTRUCTION. ALL OPENINGS ARE TO BE SECURELY CLOSED AT THE END OF EACH WORK DAY AND ARE TO BE WEATHER TIGHT. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES.

3	EXISTING ROOF PLAN DEMOLITION NOTES
NO SCALE	-

1	EXISTING/DEMO GYM ROOF PLAN
1/8" = 1'-0"	-

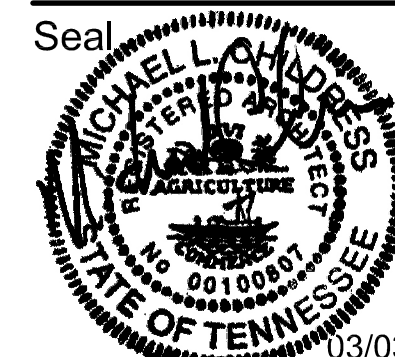
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Revisions

Consultants

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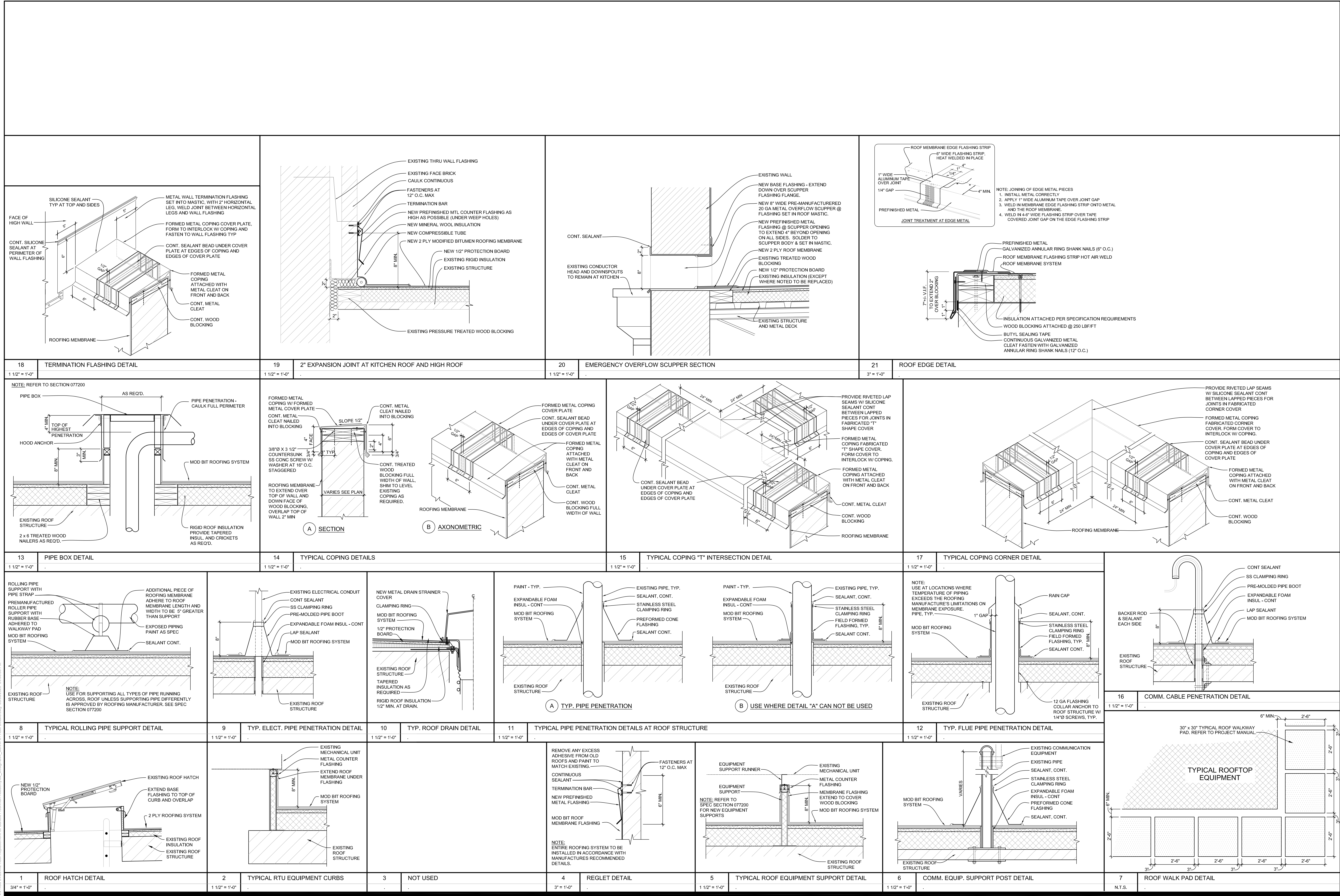


Existing Gym Roof Plan
- Architectural

Drawing Number:

A1.2

Date: 3 March 2025
Project Number: 22422



PACKAGED ROOFTOP UNIT SCHEDULE																		
MARK	SUPPLY AIR-CFM	OSA CFM	NOMINAL TONNAGE	IEER	SEER	EXT. S.P.W.G	VOLTS /PHAS E	MCA	SUPPLY & RETURN SMOKE DETECTOR	REFRIGERAN T	DX COOLING COIL			GAS HEATING SECTION			REMARKS	
											ENT. AIR db°F	SENSIBL E wb°F	TOTAL BTU/HR	ENT. AIR TEMP °F	LVG AIR TEMP °F	INPUT BTU/HR		
RTU-1	1,600	320	4	-	15	0.75	208/3	26	NO	R-454B	80	67	33,460	48,320	60	115	80,000	1

1. RTU TO BE TRANE YHC OR EQUAL FROM JCI WITH DISCONNECT, ECONOMIZER, HINGED ACCESS DOORS, STAGE STAINLESS STEEL HEAT EXCHANGER, 14" ROOF CURB, POWERED CONVENIENCE OUTLET AND PROGRAMMABLE THERMOSTAT WITH REMOTE RA SENSOR. PROVIDE WATER DETECTION SYSTEM PER IMC 307.2.3. PROVIDE FACTORY INSTALLED REFRIGERANT MONITORING PER CODE

MECHANICAL GENERAL NOTES

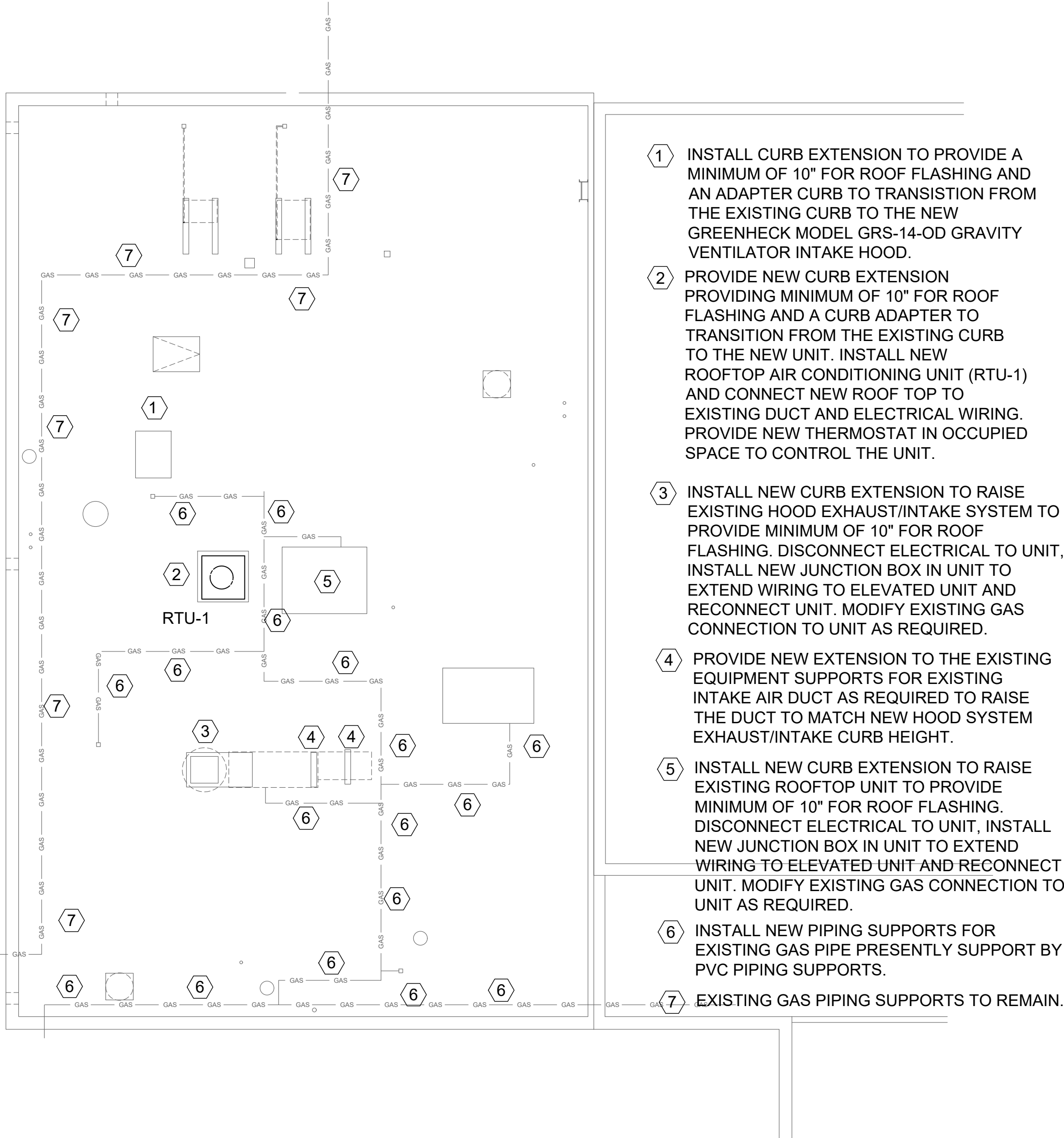
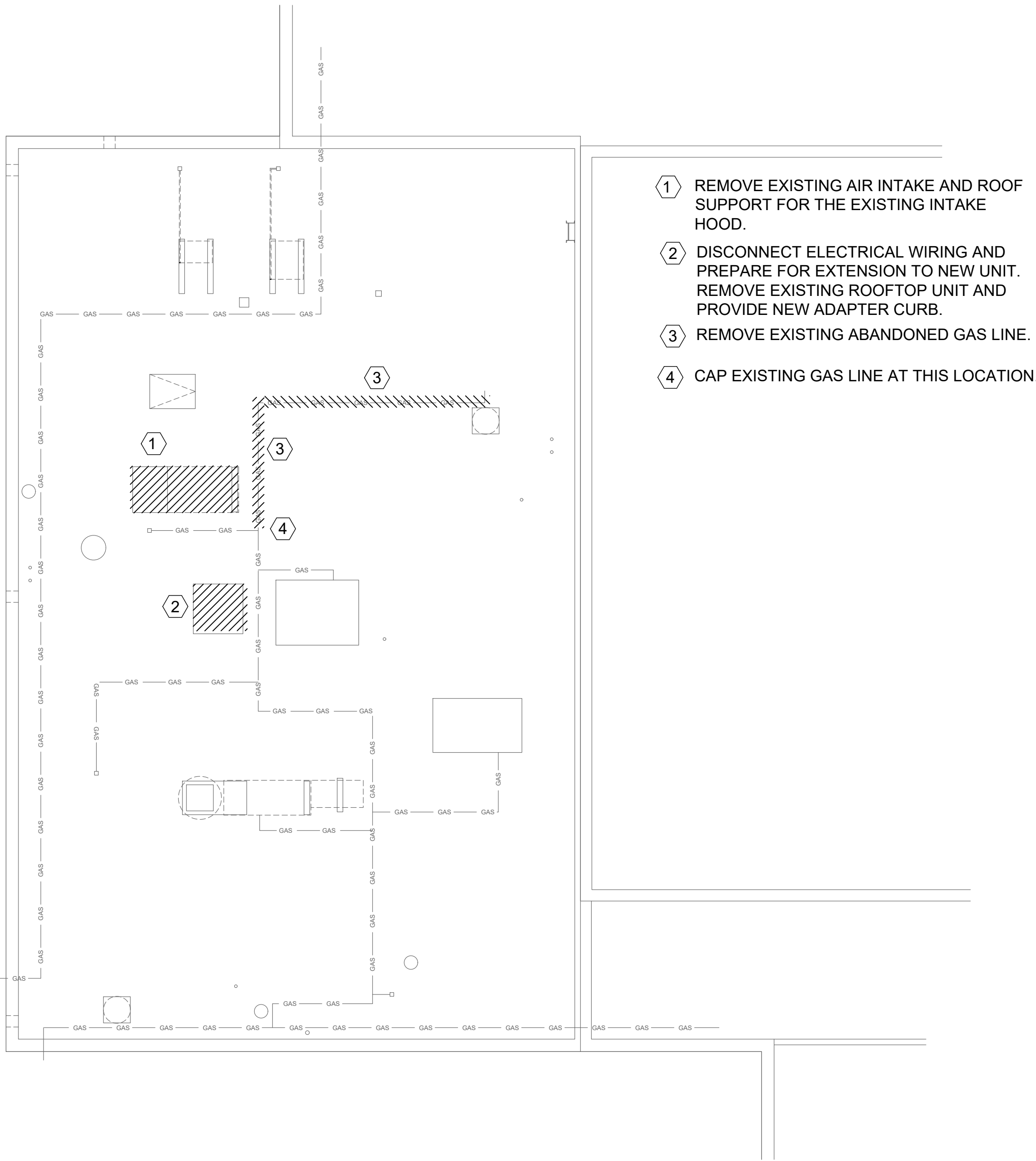
1. ROOF CURB EXTENSION SHALL BE SIMILAR TO GREENHECK MODEL GPEX 18-GAUGE GALVANIZED STEEL FORMED BODY WITH WELDED CONSTRUCTION.
2. CURB ADAPTERS FOR THE NEW ROOF GRAVITY VENTILATOR SHALL BE SIMILAR TO GREENHECK REDUCER CONSTRUCTED OF 18-GAUGE GALVANIZED STEEL FORMED BODY WITH WELDED CONSTRUCTION.
3. CURB ADAPTERS FOR RTU SHALL BE SIMILAR TO "CURBCO RTU CURB ADAPTORS". THE UNIT TRANSITION THE DUCT CONNECTIONS OF THE NEW RTU TO MATCH THE EXISTING DUCTS TO AVOID MODIFICATION TO THE EXISTING DUCT. ADAPTERS WILL BE OF WELDED CONSTRUCTION OF 16 GAUGE G90 GALVANIZED STEEL.
4. THE NEW ROOF GRAVITY VENTILATOR SHALL BE SIMILAR TO GREENHECK MODEL GRS-15-QD SPUN ALUMINUM VENTILATOR. BASE SHALL HAVE PRE-PUNCHED MOUNTING HOLES. PROVIDE FACTORY INSTALLED BIRDSSCREEN.

GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY EXACT CONDITIONS PRIOR TO BEGINNING WORK.
2. CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES INVOLVED TO AVOID ANY PIPE ROUTING PROBLEMS. IN THE EVENT CONFLICTS ARE ENCOUNTERED WHICH CANNOT BE RESOLVED BY THE TRADES INVOLVED, THE ARCHITECT SHALL BE CONSULTED AND HIS DECISION SHALL GOVERN.
3. IF ANY DISRUPTION OF SERVICES IS EXPECTED, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE A MINIMUM OF 72 HOURS AHEAD OF DISRUPTION.
4. CONTRACTOR SHALL ESTABLISH A SEQUENCE OF INSTALLATION WITH OTHER TRADES WORKING ON THE PROJECT. CONTRACTOR SHALL THOROUGHLY COORDINATE ALL SYSTEMS WITH OTHER TRADES.
5. CATHODIC PROTECTION, IF REQUIRED, IS THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL PROTECT ALL UNDERGROUND METALLIC PIPING FROM CORROSION. REFER TO SOILS REPORT. UNDERGROUND PIPING MAY ALSO BE PROTECTED WITH POLYETHYLENE ENCASEMENT CONFORMING TO ANSI/AWWA REQUIREMENTS. ALL PIPING SHALL BE WRAPPED COMPLETELY WITH ENCASEMENT TO A POINT AT LEAST 12 A.F.G OR FIN. FLOOR. ENCASEMENT SHALL BE FREE OF TEARS WITH ALL JOINTS COMPLETELY SEALED. NO PORTION OF THE PIPE SHALL BE LEFT EXPOSED TO CORROSIVE SOIL.
6. USE DIELECTRIC FITTINGS AND UNIONS ON UNSIMILAR MATERIALS.

ELECTRICAL GENERAL NOTES

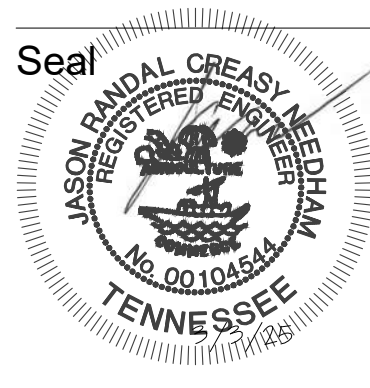
1. ALL ELECTRICAL WORK AND MATERIALS SHALL COMPLY WITH THE NEC (NATIONAL ELECTRICAL CODE) AND THE REQUIREMENTS OF ANY STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
2. MINIMUM CONDUIT SIZE SHALL BE 3/4" AND MINIMUM WIRING SIZE SHALL BE #12AWG.
3. ALL CIRCUIT WIRING SHALL BE THHN TYPE WIRING. .
4. ALL BRANCH CIRCUIT SHALL BE INSTALLED USING EMT CONDUIT WITH COMPRESSION FITTINGS.
5. ALL 208/120 VOLT WIRING SHALL ADHERE TO A "BLACK-RED-BLUE" COLOR CODE.
6. ALL CIRCUIT DESIGNATIONS SHALL BE MARKED ON JUNCTION BOXES WHERE THEY SPLICE OR PASS THROUGH.
7. THE NUMBER OF CONDUCTORS IN A JUNCTION BOX SHALL BE SUBJECT TO THE PROVISIONS OF NEC ARTICLE 314.16.
8. BOXES SHALL BE INSTALLED SO THE WIRING CONTAINED WITHIN IS ACCESSIBLE.



1 ROOF PLAN - MECHANICAL, PLUMBING, ELECTRICAL DEMOLITION

2 ROOF PLAN - MECHANICAL, PLUMBING, ELECTRICAL

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Roof Plan
- MEP
Drawing Number:

MEP1.1

Date: 3 March 2025 Project Number: 22422

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Revisions

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