

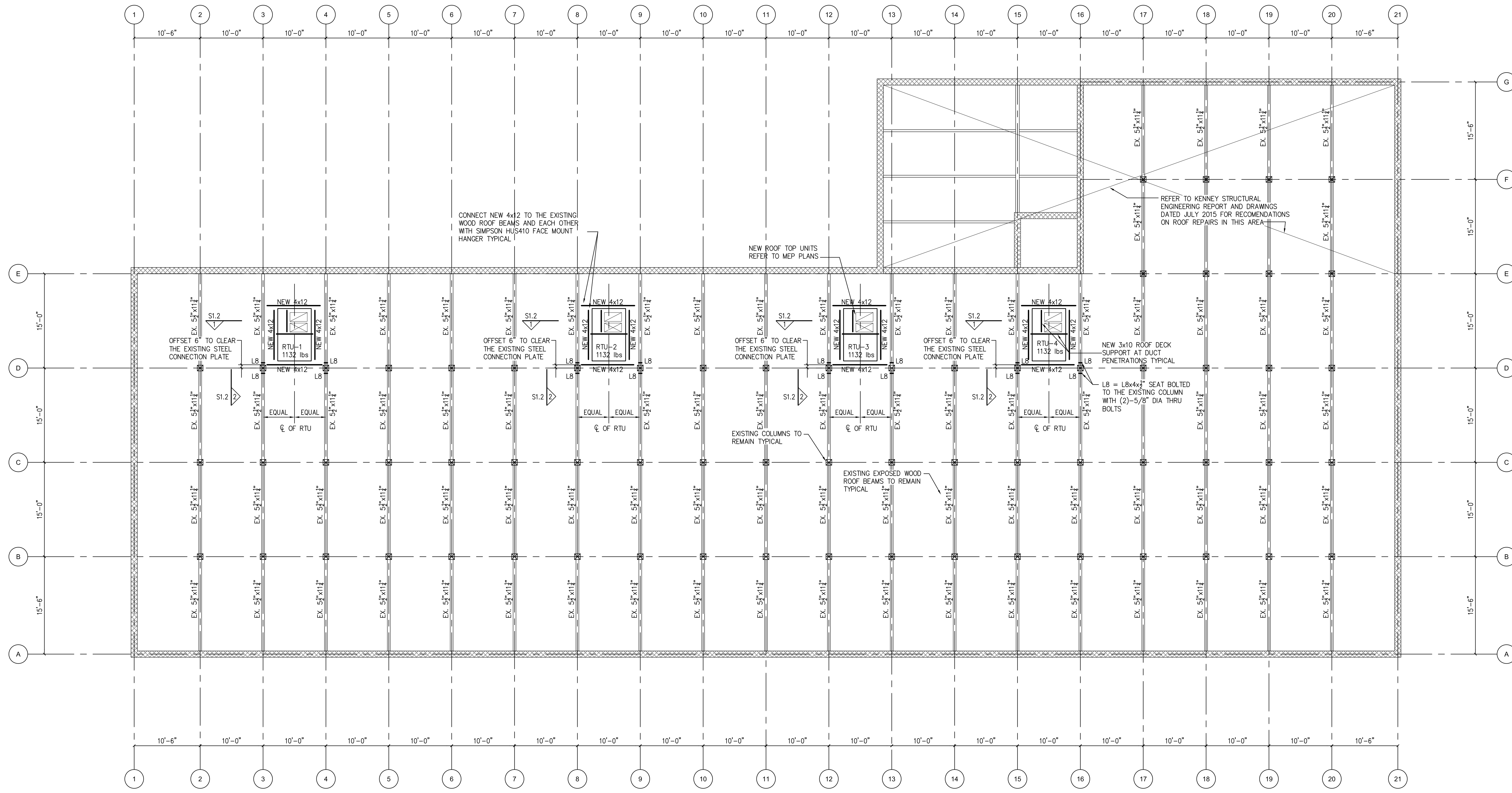
LIST OF DRAWINGS

COVER	
S1.1	ROOF FRAMING PLAN
S1.2	SECTION AND DETAILS
M1.1	SECOND FLOOR HVAC PLAN
M2.0	MECHANICAL SYMBOLS, SCHEDULES AND DETAILS
E1.1	SECOND FLOOR/ROOF - POWER PLAN AND NOTES

NEW ENGLAND CAROUSEL MUSEUM
SECOND FLOOR AIR CONDITIONING

95 RIVERSIDE AVENUE
BRISTOL, CONNECTICUT 06010

M/E/P ENGINEER
BEMIS ASSOCIATES LLC
185 MAIN STREET
FARMINGTON, CONNECTICUT
Phone: 860-667-3233
Fax: 860-321-7070



Toce Structural Engineering LLC
 1755 Meriden Waterbury Turnpike
 Unit 6, P.O. Box 365
 Milldale, CT 06457-0365
 T: 860-863-9978 F: 860-426-3174

Seal

New England Carousel Museum
 Second Floor Air Conditioning
 95 Riverside Avenue
 Bristol CT 06010

TITLE
 Roof Framing Plan

DATE 08/18/16

DWG. NO.

S1.1

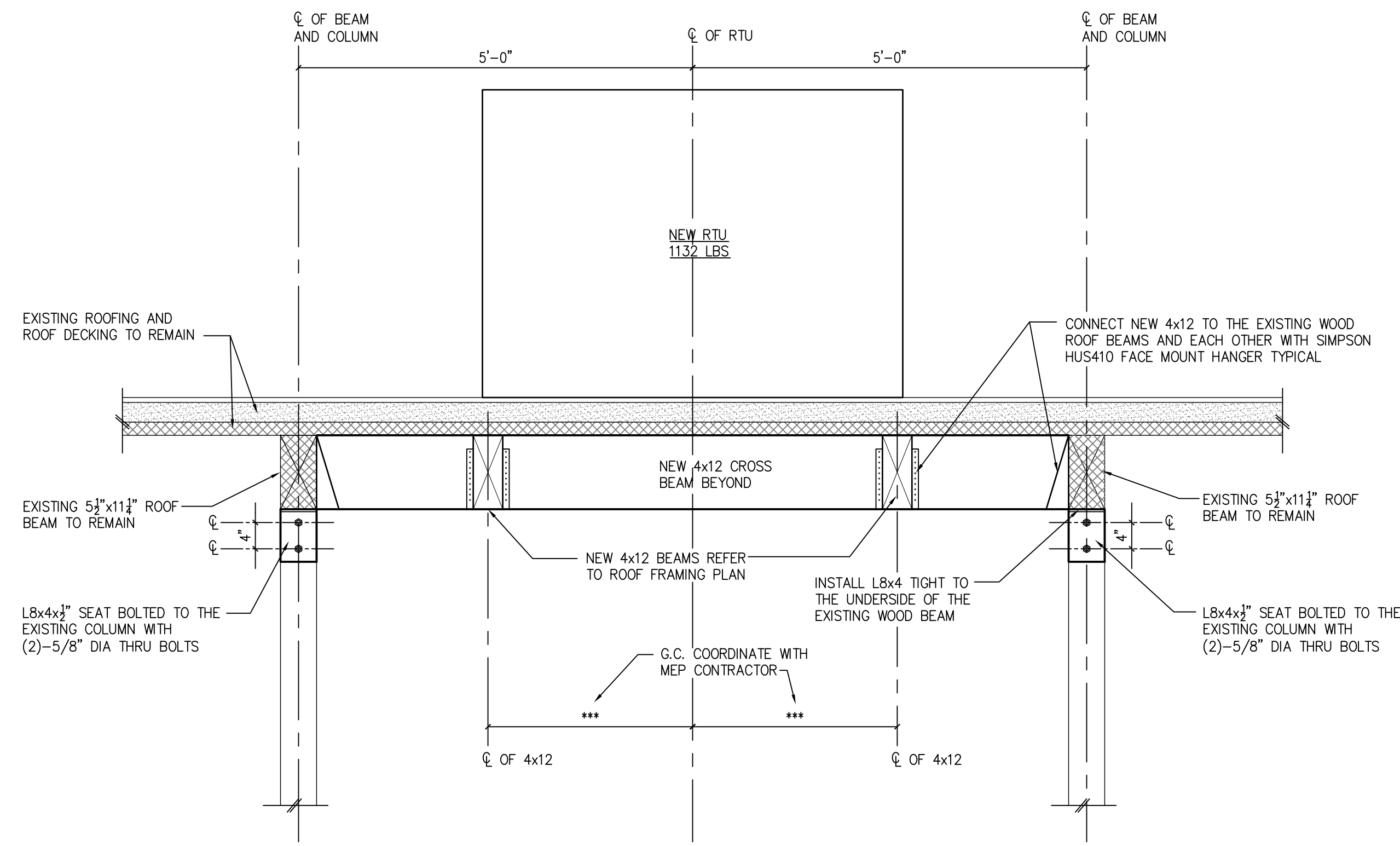
ROOF FRAMING PLAN
 1/8"=1'-0"
 NOTES:
 1. VERIFY ALL EXISTING DIMENSIONS IN THE AREA OF WORK PRIOR TO FABRICATING OR ORDERING ANY NEW MATERIALS.
 2. REFER TO BEMIS ASSOCIATES CONSULTING ENGINEERS MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

WOOD

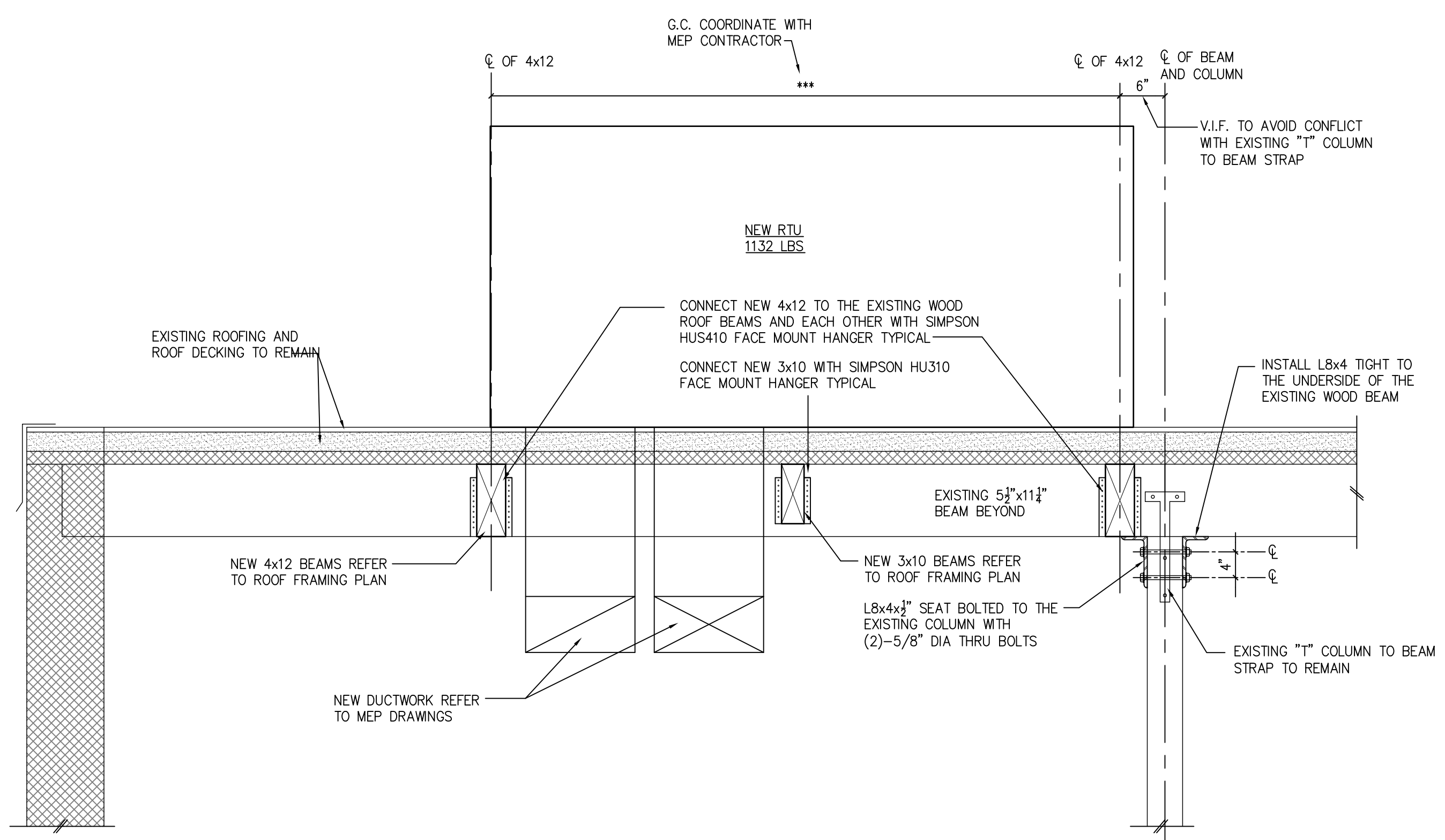
- 3x10 AND 4x12 LUMBER TO BE DOUGLAS FIR LARCH KILN DRIED WITH THE FOLLOWING MATERIAL MINIMUM PROPERTIES
 Fb 1200 PSI, Fv=180 PSI, MODULUS OF ELASTICITY E=1.5*10⁶ PSI.
 THE INTENT IS FOR THE NEW ROOF TOP UNIT SUPPORT BEAMS TO MATCH THE COLOR OF THE EXISTING ROOF FRAMING. THE NEW 3X AND 4X IS TO BE STAINED THE SAME COLOR AS THE EXISTING WOOD FRAMING. G.C. TO PROVIDE A SAMPLE FOR APPROVAL BY THE OWNER PRIOR TO INSTALLING ANY NEW WORK.
 THE SIMPSON JOIST HANGERS ARE TO BE PAINTED A FLAT GRAY THE MATCHING THE COLOR OF THE EXISTING "T" COLUMN TO BEAM STRAPS. PAINT THE SIMPSON JOIST HANGER NAIL HEADS AND TOUCH UP ANY SCRATCHES THAT MIGHT HAVE OCCURRED DURING INSTALLATION.
- PROVIDE PRODUCT SUBMITTALS FOR THE WOOD PRODUCTS THAT WILL BE SUPPLIED ON THE PROJECT. OTHER WOOD PRODUCT MANUFACTURERS CAN BE USED PROVIDED THE MATERIAL AND SECTION PROPERTIES MATCH WHAT IS SPECIFIED ABOVE AND FOR WHAT IS SPECIFIED ON THE FRAMING PLANS AND DETAILS.
- WHERE APPLICABLE PROVIDE FASTENERS, HARDWARE, AND HANGERS THAT ARE RESISTANT TO CORROSION WHEN USED IN CONJUNCTION WITH PRESSURE TREATED LUMBER.

GENERAL NOTES

- SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
- LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO REQUIREMENTS OF OTHER (NON-STRUCTURAL) DISCIPLINES ARE SHOWN FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL OBTAIN FROM THE HEATING AND VENTILATING, ELECTRICAL, PLUMBING AND OTHER SUBCONTRACTORS THE FINAL APPROVED SIZE AND LOCATION OF ALL OPENINGS AND WORK TO BE PROVIDED FOR THEIR TRADE IN ROOFS, FLOORS AND WALLS, WHETHER SHOWN OR NOT ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSMISSION OF REQUIREMENTS, LOCATIONS AND DETAILS TO STRUCTURAL SUBCONTRACTORS. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS ARE NOT TO BE BORNE BY THE OWNER.
- MECHANICAL EQUIPMENT WEIGHTS USED IN DESIGN OF SUPPORTING ELEMENTS HAVE BEEN INDICATED ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO INSTALLATION IF ACTUAL WEIGHT EXCEEDS WEIGHT SHOWN ON DRAWINGS.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- SHOP DRAWINGS ARE TO BE CHECKED BY THE CONTRACTOR AND SUBCONTRACTOR AND BEAR CHECKER'S INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK.
- ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY FOR THE SAME AND SIMILAR SITUATIONS THROUGHOUT THE BUILDING, UNLESS OTHERWISE SPECIFICALLY NOTED.



SECTION 1
3/4"=1'-0" S1.2



SECTION 2
3/4"=1'-0" S1.2

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 1755 Meriden Waterbury Turnpike
 Unit 6, P.O. Box 365
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 T: 860-863-9978 F: 860-426-3174

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 Bristol CT 06010

TITLE
 Sections and Details I

DATE 08/18/16

DWG. NO.

S1.2

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SECOND FLOOR AIR CONDITIONING
95 RIVERSIDE AVENUE BRISTOL, CT 06010

BEMIS ASSOCIATES, L.L.C.
Consulting Engineers

185 Main Street
Farmington, CT 06030
Phone: (860) 667-3333
Fax: (860) 351-2070
www.bemisassociates.com

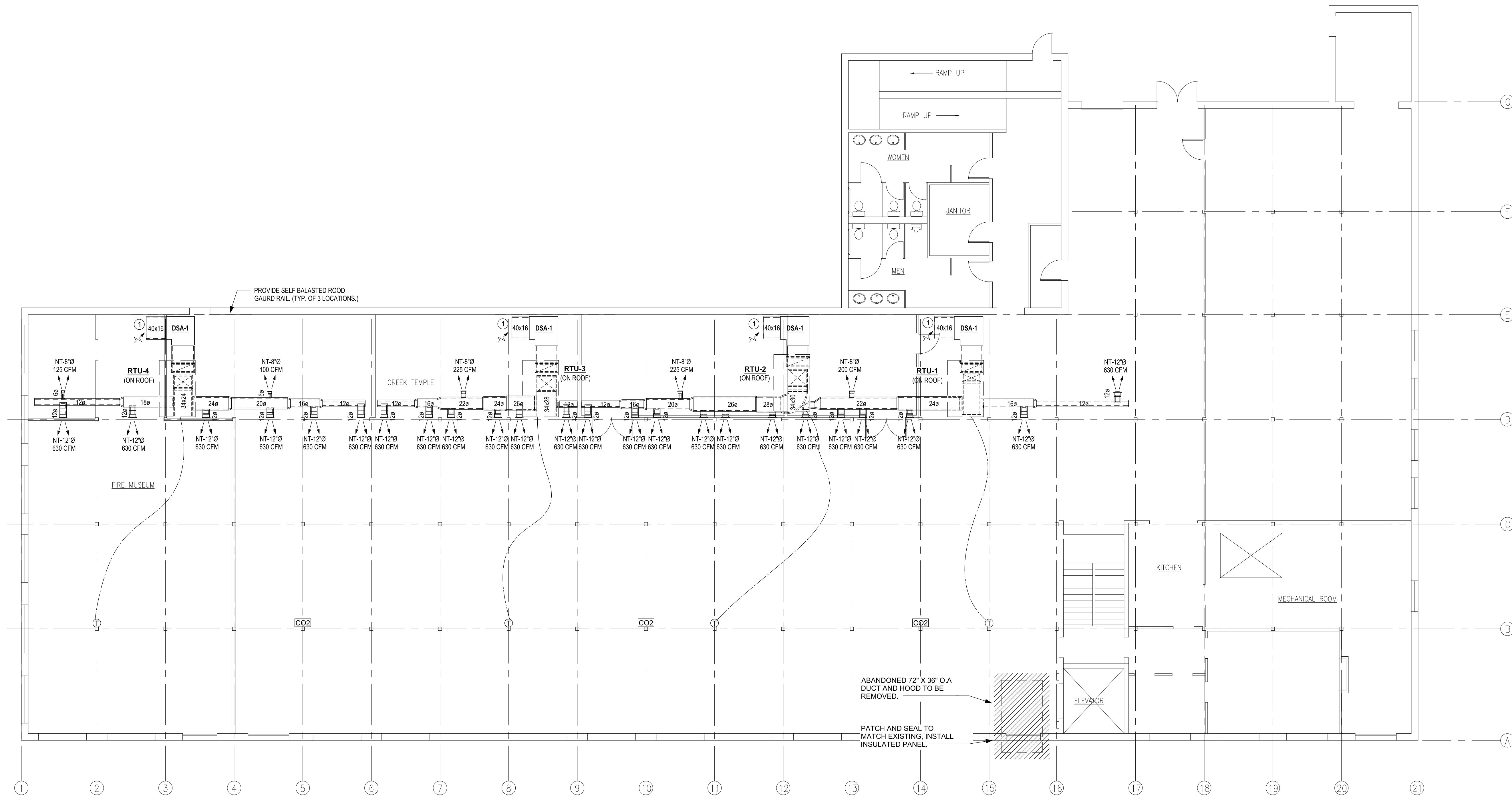
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TITLE
MECHANICAL PLAN

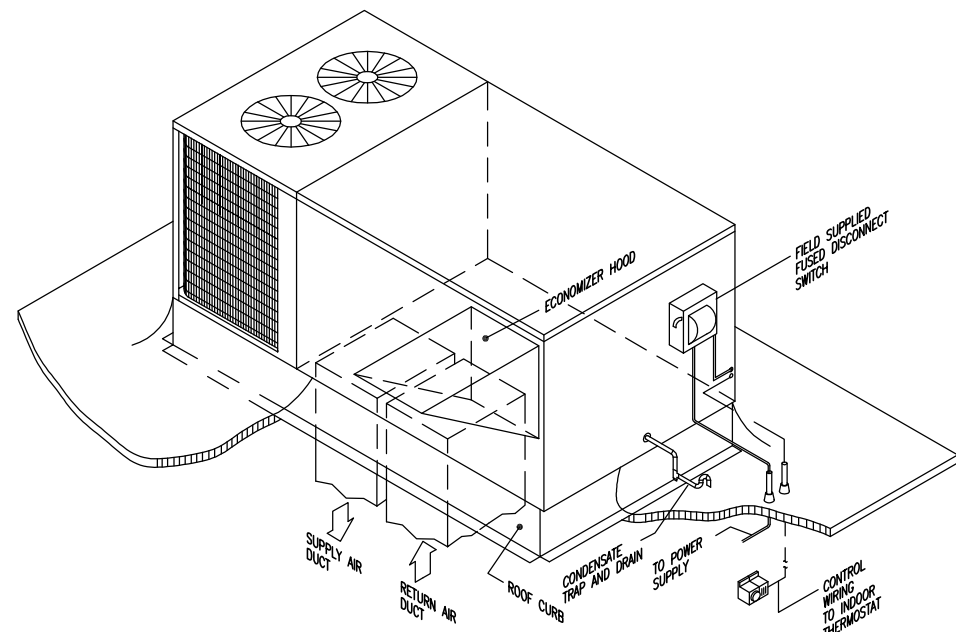
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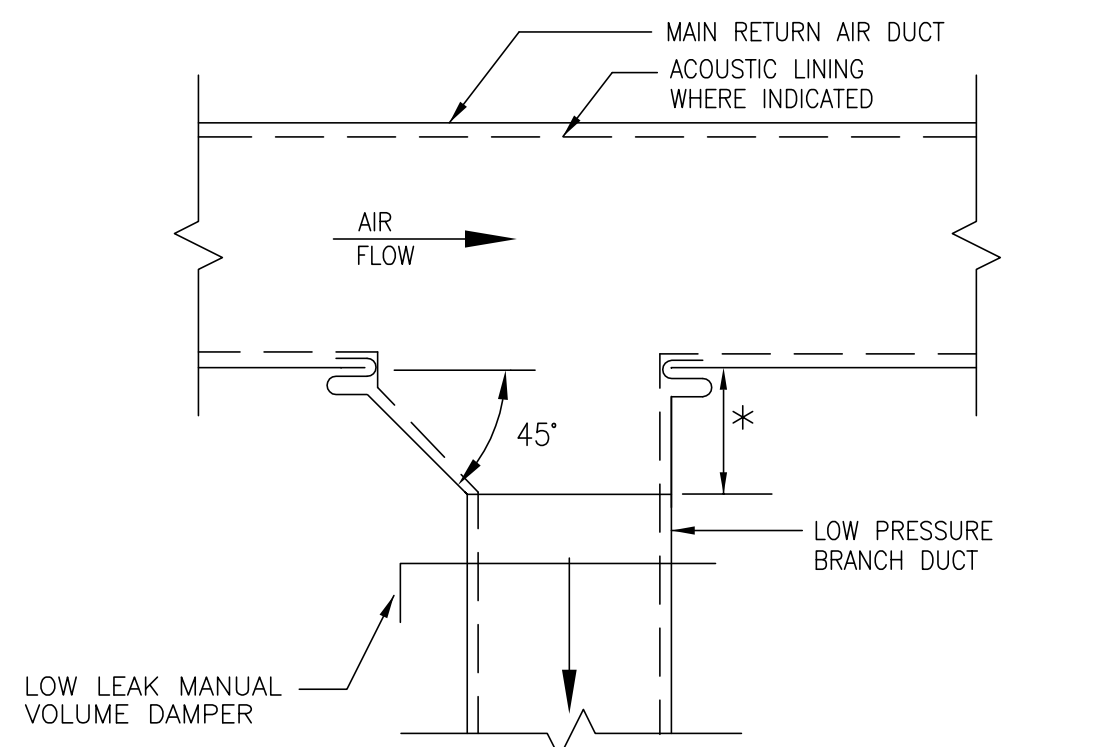
M1.1



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

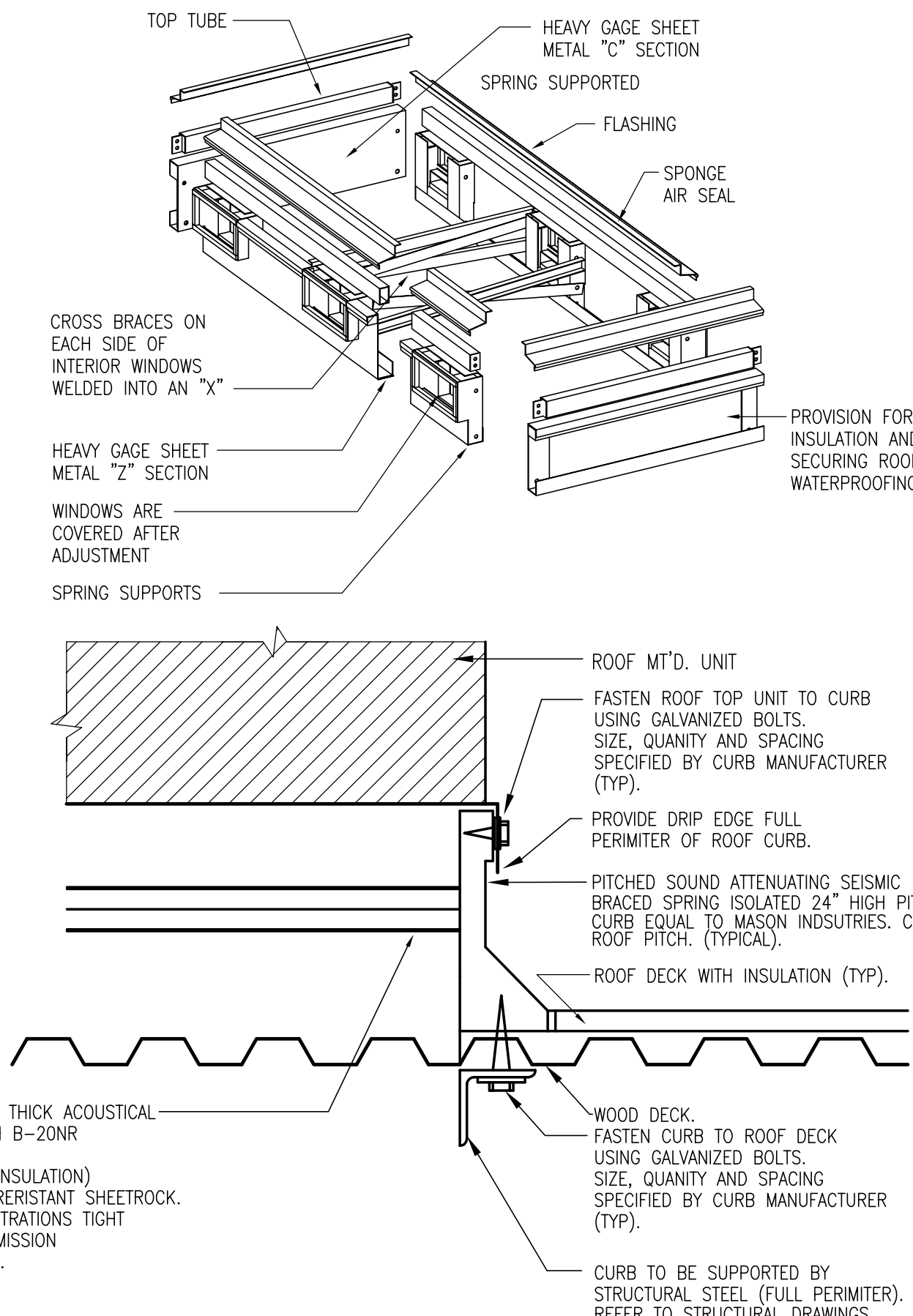


ROOFTOP PACKAGED HVAC UNIT DETAIL
NOT TO SCALE



*=EQUALS WIDTH OF BRANCH DUCT UP TO 12".
MINIMUM 4", MAXIMUM 12" FOR ALL BRANCH DUCTS LARGER THAN 12".

TYPICAL SUPPLY AIR BRANCH DUCT TAKE-OFF
NOT TO SCALE



TYPICAL ROOF TOP UNIT PITCHED SEISMIC SPRING SUPPORT CURB
NO SCALE

Sequence of Operations
RTU-1,2,3,4

Control System Interface:
The Rooftop Packaged Systems shall send the unitary controller Bypass, Pre-Cool, Occupied / Unoccupied and Cool modes signals by way of locally mounted temperature/humidity and CO2 sensors to maintain required setpoints.

Occupied Mode:
During occupied periods, the supply fan shall run continuously and the outside air damper shall open to maintain minimum ventilation requirements. The DX cooling shall stage to maintain the occupied space temperature setpoint. If economizing is enabled the outside air damper shall modulate to maintain the occupied space temperature setpoint.

Unoccupied Mode:
When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan shall start, the outside air damper shall open if economizing is enabled and remain closed if economizing is disabled and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F (adj.) minus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop, the DX cooling shall be disabled and the outside air damper shall close.

Optimal Start:
The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

Pre-Cool Mode:
During optimal start, if the space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the fan and cooling or economizer. The outside air damper shall remain closed, unless economizing. When the space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

Optimal Stop:
The BAS shall monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller shall maintain the space temperature to the space temperature offset setpoint.

Bypass:
The BAS shall monitor the status of the "on" and "cancel" buttons of the space temperature sensor. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

Cooling Mode:
The unit controller shall monitor space temperature and space temperature cooling setpoint to determine when to initiate requests for cooling. When the space temperature rises above the space temperature cooling setpoint, the unit controller shall modulate the economizer or stage the mechanical cooling On or Off as required to maintain the space temperature cooling setpoint. The first compressor shall energize after its minimum 3-minute off time has expired. The supply fan shall modulate above minimum speed to meet zone requirements. If additional cooling capacity is required the next stage of cooling shall be enabled. Once the space temperature falls below the setpoint the compressors shall be deactivated and the fan shall modulate to minimum speed.

Economizer Control / Comparative Enthalpy:
The supply air sensor shall measure the dry bulb temperature of the air leaving the evaporator coil while economizing. When economizing is enabled and the unit is operating in the cooling mode, the economizer damper shall modulate between its minimum position and 100% to maintain the space temperature setpoint. Minimum position shall be calculated based on supply fan speed. If the mixed air temperature starts to fall below 53.0 deg. F, the economizer starts to close, at 50.0 deg. F, the damper shall be at minimum position. Compressors shall be delayed from operating until the economizer has opened to 100% for 5 minutes.

Comparative Enthalpy:
Outside air (OA) enthalpy is compared with Return air (RA) enthalpy point. The economizer shall be enabled when OA enthalpy is less than RA - 3.0 BTU/LB. The economizer shall be disabled when OA enthalpy is greater than RA enthalpy.

Demand Control Ventilation (DCV):
With the supply fan in occupied mode, the Building Design and DCV Minimum Position Targets shall be calculated linearly between the user selected setpoints based on the Bldg. Design ppm and DCV Minimum Position Targets will be used to calculate the Active OA Damper Minimum Position Target based on CO2 levels relative to the active Design and DCV CO2 setpoints. With the fan in operation and the economizer damper in minimum position and upon a signal from the CO2 sensor, that there is an increase in CO2 above the setpoint, the OA Damper Position will modulate open, post minimum setting to maintain a safe CO2 level.

Supply Fan Operation:
The supply fan shall be enabled while in the occupied mode and cycled on during the unoccupied mode to maintain the respective setpoint. The unit controller shall maintain the supply fan operating point to optimize operation of the system during cooling mode. A differential pressure switch shall monitor the differential pressure across the fan, if the switch does not open within 40 seconds after a request for fan operation a fan failure alarm shall be announced, the unit shall stop, requiring a manual reset.

Building Pressure Control:
The power exhaust shall enable when the economizer damper position is equal to or greater than the exhaust fan setpoint.

Filter Status:
A differential pressure switch shall monitor the differential pressure across the filter when the fan is running. If the switch closes for 2 minutes after a request for fan operation a dirty filter alarm shall be announced at the BAS.

PACKAGED ROOFTOP UNIT SCHEDULE																																					
UNIT No.	AREA SERVED	MANUFACTURER	MODEL	Max. O.A. (CFM)	Min. O.A. (CFM)	SUPPLY FAN DATA					RETURN AIR DATA					COOLING COIL DATA					CONDENSING		ELECTRICAL DATA		REMARKS												
						CFM	ESP	TSP	BHP	HP	CFM	ESP	TSP	BHP	HP	PH	VOLTS	#COILS/#ROWS/FPI	FFM	TMBH	SMBH	EAT(db/wb)	LAT(db/wb)	E/LMT		GPM	WPD	APD	COMP	POWER	EER	MCA	VOLTS	PHASE	Hz		
RTU-1	SECOND FLOOR	TRANE	THC120F	4000	1225	4000	1.25	1.51	2.73	3.8	3800	-	-	-	-	3	460	1/4/16	240	113.97	86.4	80	67	60.3	58.4	N/A	N/A	N/A	0.26	2	7.8KW	12.5	24.9	460	3	60	REFER TO NOTES
RTU-2	SECOND FLOOR	TRANE	THC120F	4000	1225	4000	1.25	1.51	2.73	3.8	3800	-	-	-	-	3	460	1/4/16	240	113.97	86.4	80	67	60.3	58.4	N/A	N/A	N/A	0.26	2	7.8KW	12.5	24.9	460	3	60	REFER TO NOTES
RTU-3	SECOND FLOOR	TRANE	THC120F	4000	1225	4000	1.25	1.51	2.73	3.8	3800	-	-	-	-	3	460	1/4/16	240	113.97	86.4	80	67	60.3	58.4	N/A	N/A	N/A	0.26	2	7.8KW	12.5	24.9	460	3	60	REFER TO NOTES
RTU-4	SECOND FLOOR	TRANE	THC120F	4000	1225	4000	1.25	1.51	2.73	3.8	3800	-	-	-	-	3	460	1/4/16	240	113.97	86.4	80	67	60.3	58.4	N/A	N/A	N/A	0.26	2	7.8KW	12.5	24.9	460	3	60	REFER TO NOTES

- NOTES:**
1. PROVIDE WITH PITCHED ROOF CURB ON SEISMIC BASE.
 2. PROVIDE WITH OFI MOUNTED TO UNIT.
 3. PROVIDE WITH INSULATED STAINLESS STEEL DRAIN PAN
 4. PROVIDE (2) SETS OF 30X (MIN) Ø) FILTERS.
 5. PROVIDE WITH UNITARY STAND ALONE CONTROL AND DEMAND CONTROL VENTILATION.
 6. PROVIDE WITH ECONOMIZER AND DIFFERENTIAL ENTHALPY CONTROL.
 7. TSP IS BASED ON MEAN FILTER PRESSURE DROP, COOLING COIL AND RTU CABINET PRESSURE DROP.
 8. POWER WIRING AND RACKWAY BY DIVISION 26. DISCONNECTS AND STARTING RELAYS FURNISHED BY DIVISION 23.
 9. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

DIFFUSER SCHEDULE	
TYPE	DESCRIPTION
TYPE NT	SEMI WALL MOUNTED SUPPLY DIFFUSER MODEL NT, DOUBLE DEFLECTION, ROUND NECK, WITH BORDER FOR WALL MOUNT. PROVIDE IN ALUMINUM CONSTRUCTION. REFER TO DRAWINGS FOR DIFFUSER LOCATIONS, SIZES AND FLOW PATTERN. PROVIDE EACH DIFFUSER W/ MODEL BS (ROUND BUTTERFLY DAMPER). COLOR BY ARCHITECT.
TYPE NR-B	SEMI WALL MOUNTED SUPPLY DIFFUSER MODEL NR-B, DOUBLE DEFLECTION, ROUND NECK, WITH BORDER FOR WALL MOUNT. PROVIDE IN ALUMINUM CONSTRUCTION. REFER TO DRAWINGS FOR DIFFUSER LOCATIONS, SIZES AND FLOW PATTERN. PROVIDE EACH DIFFUSER W/ MODEL BS (ROUND BUTTERFLY DAMPER). COLOR BY ARCHITECT.

- GENERAL NOTES:**
1. CONTRACTOR TO PROVIDE TRANSITION WHEN NECK SIZE IS DIFFERENT FROM DUCT SIZE.
 2. COLOR AS SPECIFIED BY THE ARCHITECT.
 3. CONTRACTOR SHALL PROVIDE A LOW LEAKAGE VOLUME DAMPER AT EACH BRANCH TAKE-OFF.

PERFORMANCE SPECIFICATION SECTION 23 00 00-HEATING, VENTILATING, AIR CONDITIONING

PART 1 - GENERAL REQUIREMENTS

101 SCOPE OF WORK

WORK UNDER THIS SECTION SHALL INCLUDE ALL LABOR, MATERIALS, SERVICES, EQUIPMENT, TRANSPORTATION AND OTHER INCIDENTALS NECESSARY TO FURNISH, INSTALL AND TO CONSTRUCT ALL HVAC SYSTEMS INCLUDING:

- AIR CONDITIONING UNITS
- SHEET METAL WORK

102 SUBMITTALS

ISSUE ELECTRONIC COPIES OF MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS AND SHOP DRAWINGS FOR ALL ITEMS OF THE HVAC EQUIPMENT FOR APPROVAL.

103 CODES

THE FOLLOWING CODES AND STANDARDS SHALL APPLY TO THIS WORK:

NFPA-90A AIR CONDITIONING AND VENTILATING SYSTEM NFPA-91 BLOWER AND EXHAUST SYSTEMS APPLICABLE BOCA MECHANICAL CODE

105 PERMITS AND FEES

THIS SUBCONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED TESTS, PERMITS, CERTIFICATES, NOTARIZATIONS, INSPECTIONS AND LICENSES NECESSARY FOR ALL INCIDENTAL TO THE ACCOMPLISHMENT OF HIS WORK AND THE USE OF SUCH WORK WHEN COMPLETED.

106 COORDINATION

FURNISH ALL SLEEVES, FRAMES, BOXES, TEMPLATES, AND SUPPORTS SO THAT THE GENERAL CONTRACTOR MAY BUILD SAME IN PLACE. CONFER WITH ALL OTHER SUBCONTRACTORS AS TO THE LOCATION OF THEIR WORK BEFORE BEGINNING PLUMBING WORK AND INSTALL PLUMBING WORK IN SUCH A MANNER AS TO AVOID INTERFERENCE WITH THE OTHER TRADES. OBTAIN FROM THESE SUBCONTRACTORS THE NECESSARY INFORMATION RELATIVE TO PLUMBING WORK REQUIRED FOR EQUIPMENT INSTALLED BY THEM.

107 PROTECTION

MATERIALS, FIXTURES, AND FITTINGS SHALL BE PROPERLY PROTECTED.

109 OPERATING INSTRUCTIONS AND MAINTENANCE MANUALS

AT THE COMPLETION OF THE PROJECT TURN OVER TO THE ENGINEER FOUR COMPLETE MANUALS CONTAINING THE FOLLOWING:

- COMPLETE SHOP DRAWINGS OF ALL EQUIPMENT.
- OPERATING DESCRIPTION OF ALL SYSTEMS.
- NAMES, ADDRESSES AND TELEPHONE NUMBERS OF ALL SUPPLIERS OF THE SYSTEM AND SERVICE AGENTS.
- PREVENTIVE MAINTENANCE INSTRUCTIONS FOR ALL SYSTEMS.

PART 3 - EXECUTION

3.01 DUCT INSTALLATION

DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF WORK TO BE INSTALLED. RUN AND ARRANGEMENT DUCTWORK SHALL BE APPROXIMATELY AS INDICATED, SUBJECT TO MODIFICATIONS AS REQUIRED TO SUIT CONDITIONS AT BUILDING, TO AVOID INTERFERENCE WITH WORK OF OTHER TRADES, OR FOR PROPER CONVENIENCE AND ACCESSIBLE LOCATION OF ALL PARTS OF DUCT SYSTEM. DUE TO SMALL SCALE OF DRAWINGS, ALL REQUIRED OFFSETS, ETC. MAY NOT BE INDICATED. REFER TO AND CAREFULLY CHECK EXISTING CONDITIONS, ELECTRICAL AND MECHANICAL DRAWINGS, AND DETAILS, NOTING LOCATIONS WHERE WALLS, PARTITIONS, CEILINGS, BEAMS, COLUMNS, AND OTHER SURFACES ARE FURRED. FURNISHING ALL OFFSETS, FITTINGS, ETC., REQUIRED TO MEET SUCH CONDITIONS.

RUN DUCTS STRAIGHT AND DIRECT AS POSSIBLE, IN GENERAL FORMING RIGHT ANGLES WITH OR PARALLEL WITH WALLS, AND NEATLY SPACED, WITH RISERS ERECTED PLUMB AND TRUE. RUN DUCTS TO ALLOW FOR MAX. HEAD ROOM.

3.02 HANGERS AND SUPPORTS

HANGERS AND SUPPORT DUCTS FROM BUILDING STRUCTURE TO PREVENT VIBRATION SECURE DUCTS IN PLACE, AND PROVIDE FOR EXPANSION AND CONTRACTION. PROVIDE LOCKNUTS ON ALL HANGERS AND SUPPORTS. HANGERS SHALL BE SECURED TO INSERTS WHEREVER PRACTICABLE. HANGERS SHALL BE ADJUSTABLE CLEVIS HANGER TYPE. HANGER RODS SHALL HAVE MACHINE THREADS. HANGERS SHALL BE GRINNEL FIG. 260 FOR FERROUS PIPING AND FIGURE CT-65 FOR COPPER TUBING. GANG HANGERS MAY BE USED.

THIS CONTRACTOR SHALL PROVIDE METAL AND OTHER BASES AND SUPPORTS NOT PART OF THE BUILDING FOR ALL EQUIPMENT AND ERECT ALL STRUCTURAL SUPPORTS OF PROPER SIZE, TYPE AND STRENGTH THROUGHOUT WHEREVER NECESSARY. THE MATERIAL SHALL BE COMPLETE AND MUST BE APPROVED BY THE ARCHITECT.

3.03 PROTECTION

THIS CONTRACTOR SHALL TAKE PARTICULAR CARE TO PROTECT ANY FINISHED WORK FROM INJURY OR DEFACEMENT AND MUST REMEDY AT HIS OWN EXPENSE ANY INJURY CAUSED THERETO BY HIS OPERATIONS OR THE OPERATIONS OF ANY OTHER CONTRACTORS. THIS CONTRACTOR SHALL PROVIDE SUITABLE PROTECTION OF ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT WHILE STORED AT THE JOB SITE AND AFTER INSTALLATION. THIS PROTECTION SHALL BE SUITABLE TO GUARD EQUIPMENT ITEMS AGAINST DAMAGE FROM THE WEATHER OR FROM CONSTRUCTION ACTIVITY. SUCH PROTECTION SHALL NOT BE REMOVED UNTIL DIRECTED BY THE ARCHITECT. THE INTERIOR AND EXTERIOR OF ALL DUCTS, PIPING AND EQUIPMENT, SHALL BE KEPT IN A CLEAN CONDITION, FREE FROM DIRT AND DEBRIS. ALL PIPING, DUCT, AND EQUIPMENT ITEMS SHALL BE THOROUGHLY CLEANED BEFORE THE START-UP OF ANY EQUIPMENT OR SYSTEMS.

INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INSULATION SHALL BE AS MANUFACTURED BY GUSTIN- BACON, OWENS CORNING FIBERGLASS, KNAUF, OR EQUAL.

3.06 SHEET METAL WORK

DUCTWORK SHALL BE FABRICATED AND ERECTED AS REQUIRED TO COMPLETE THE WORK. IF IT IS DEEMED ADVISABLE BY THE CONTRACTOR TO CHANGE THE LOCATION OF ANY DUCT OR DIMENSION THEREOF FROM THAT SHOWN ON THE DRAWINGS, THE CHANGE SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT, AND HIS APPROVAL RECEIVED. SHEET METAL WORK SHALL BE FABRICATED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS AS SET FORTH BY ASHRAE AND SMACNA.

3.07 ACCESS PANELS

FURNISH ACCESS PANELS OF SUFFICIENT SIZE TO FACILITATE SERVICING WHERE DAMPERS, ARE CONCEALED IN NON-ACCESSIBLE SPACE.

PANEL SHALL BE MILCOR STYLE "AT" FOR PANELS IN ACOUSTICAL TILE AREAS, STYLE "AP" FOR PANELS IN PLASTER WALLS AND CEILINGS, AND STYLE "M" FOR PANELS IN MASONRY OR TILE WALLS AS MANUFACTURED BY INLAND STEEL PRODUCTS CO., L.N. WALSH CO., MIAMI CAREY, OR EQUAL. ALL PANELS SHALL BE FURNISHED WITH A SHOP PRIME COAT OF PAINT.

LOCATIONS OF ALL ACCESS PANELS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.

PANELS SHALL BE INSTALLED BY THE CONTRACTOR IN WHOSE SURFACE THE PANELS OCCUR.

3.08 RECORD DRAWINGS

THIS CONTRACTOR SHALL MAINTAIN AND SUBMIT RECORD DRAWINGS, ON WHICH SHALL AT ALL TIMES, CLEARLY AND COMPLETELY SHOW THE ACTUAL INSTALLATION IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SECTION.

WHEREVER THE WORK WAS INSTALLED OTHER THAN AS SHOWN ON THE CONTRACT DRAWINGS, SAID CHANGES SHALL BE INDICATED ON THE "AS-BUILT" PRINTS. ANY ADDENDA SKETCHES AND SUPPLEMENTARY DRAWINGS ISSUED DURING THE COURSE OF CONSTRUCTION SHALL ALSO BE INCORPORATED ON THE "AS-BUILT" PRINTS.

THE "AS-BUILT" DRAWINGS SHALL BE KEPT UP TO DATE AND BE AVAILABLE TO THE ARCHITECT FOR INSPECTION AT ALL TIMES.

UPON RECEIPT OF APPROVAL OF THE "AS-BUILT" DRAWINGS, PHOTO REPRODUCTIONS OF THE ORIGINAL TRACINGS ON MYLAR TRANSPARENCIES SHALL BE REVISED TO INCORPORATE ALL THE CHANGES ON THE "AS-BUILT" DRAWINGS. THESE REPRODUCIBLE TRANSPARENCIES SHALL BE CERTIFIED AS CORRECT AND DELIVERED TO THE ARCHITECT ALONG WITH TWO (2) SETS OF BLACK LINE PRINTS AS "RECORD DRAWINGS".

ALL COSTS RELATIVE TO THESE RECORD DRAWINGS SHALL BE PAID BY THIS CONTRACTOR.

3.09 RUBBISH REMOVAL

AT THE COMPLETION OF EACH DAYS WORK, THIS CONTRACTOR SHALL REMOVE FROM THE PREMISES, ALL RUBBISH OR WASTE MATERIAL BELONGING TO HIM.

3.10 OPERATING INSTRUCTIONS AND MAINTENANCE MANUALS

THIS CONTRACTOR SHALL GIVE DETAILED INSTRUCTIONS PRIOR TO THE COMPLETION OF THE WORK, TO THE RESPONSIBLE PERSONNEL DESIGNATED BY THE OWNER IN THE OPERATION AND MAINTENANCE OF ALL WORK INSTALLED UNDER THIS CONTRACT. A LETTER WITH TWO COPIES CONTAINING THE NAME OF THE PERSON OR PERSONS TO WHOM THE INSTRUCTIONS WERE GIVEN AND THE DATES OF THE INSTRUCTION PERIOD SHALL BE SUBMITTED TO THE OWNER NO LATER THAN THE COMPLETION OF THE PROJECT.

IN ADDITION, THIS CONTRACTOR SHALL PREPARE AND SUBMIT TWO SETS OF MANUFACTURER'S CATALOGS, INSTRUCTIONS AND OTHER SIMILAR DATA, INCLUDING THE NECESSARY PHOTOGRAPHIC CUTS, DIAGRAMS, VALVE CHARTS AND THE LIKE, COVERING ALL MECHANICAL AND MANUALLY OPERATED EQUIPMENT AND DEVICES FURNISHED AND/OR INSTALLED UNDER THE HVAC SUBCONTRACT. THIS MANUAL SHALL CONTAIN ONLY THAT INFORMATION WHICH SPECIFICALLY APPLIED TO THIS PROJECT, AND ALL UNRELATED MATERIALS SHALL BE DELETED. DURING THE INSTRUCTION PERIOD, SPECIFIED ABOVE, THE MANUAL SHALL BE USED AND EXPLAINED. THE MATERIALS SHALL BE BOUND IN BOOK FORM AND INDEXED.

3.11 GUARANTEES

ALL PARTS OF THE INSTALLATION ARE TO BE GUARANTEED IN WRITING BY THIS SUBCONTRACTOR TO BE FREE FROM DEFECTS, MANUFACTURE AND INSTALLATION FOR A PERIOD OF 18 MONTHS FROM THE DATE OF WRITTEN ACCEPTANCE OF THE ENTIRE BUILDING BY THE OWNER. THIS CONTRACTOR SHALL REPLACE, WITHOUT CHARGE TO THE OWNER, ANY PART OR PARTS OF EQUIPMENT, AND ALL LABOR AND MATERIALS REQUIRED, WHICH FAILS DUE TO SUCH CAUSE OR CAUSES DURING THE GUARANTEE PERIOD.

THIS CONTRACTOR AND THE MANUFACTURER SUPPLYING EACH UNIT OF EQUIPMENT SHALL GUARANTEE SAME TO BE OF A CAPACITY AND CAPABLE OF PERFORMANCE AS REPRESENTED BY THE MANUFACTURER.

THE MANUFACTURER'S WRITTEN GUARANTEES, WHERE SUCH GUARANTEES EXTEND BEYOND THE ONE YEAR LIMIT STATED HEREIN SHALL BE DELIVERED TO THE ARCHITECT FOR TRANSMITTAL TO THE OWNER.

SOUND ATTENUATOR SCHEDULE (BASED ON VIBRO-ACOUSTICS)																	
UNIT No.	MODEL	DIMENSIONS			AIRFLOW (CFM)	VELOCITY (ft/min)	SILENCER P.D. IN WG	DYNAMIC INSERTION LOSS (dB/O.B.)								REMARKS	
		W"	H"	L"				63	125	250	500	1000	2000	4000	8000		
DSA-1	RED-HV-F6	40	16	60	3,800	-855	0.11	6	9	17	22	33	33	25	20	20	RTU-1,2,3,4

- NOTES:**
1. SCHEDULED PRESSURE DROPS ARE REPORTED IN ACCORDANCE WITH ASTM E477 TEST METHODS.
 2. THE + / - SYMBOLS DESIGNATES FLOW DIRECTION THROUGH THE TRAP; + FORWARD FLOW, - REVERSE FLOW.
 3. 18 GAUGE GALVANIZED STEEL OUTER WALL.
 4. 20 GAUGE GALVANIZED STEEL INNER WALL.
 5. RMB = RECTANGULAR MESHBOX.
 6. ACOUSTIC MEDIA SHALL BE Vibro-Acoustics MeshBox MEDIA CONTAINING 100% NATURAL COTTON FIBERS TREATED WITH AN EPA REGISTERED, NON-TOXIC BORATE SOLUTION, FLASH DRIED TO PROVIDE RESISTANCE TO MOLD MILDEW AND FUNGI.

MECHANICAL SYMBOL LIST

SYMBOL	ABBREV.	DESCRIPTION
12X8 OR 12"X8"		CLEAR INSIDE DUCTWORK DIMENSIONS (INCH)
14X8		RECTANGULAR DUCTWORK
8ø		ROUND DUCTWORK
	RTU	PACKAGED ROOFTOP UNIT
	ATC/TCC	AIR TEMPERATURE CONTROL/TEMPERATURE CONTROL CONTRACTOR
	DDC	STAND ALONE DIRECT DIGITAL CONTROL SYSTEM
	OA	OUTDOOR AIR
	RA	RETURN AIR
	TYP.	TYPICAL
☒	S	SUPPLY DIFFUSER
☒	R/E	RETURN/EXHAUST DIFFUSER
▨	SA	SOUND ATTENUATOR
▭		LINED DUCTWORK
CO2	CO2	CO2 DETECTOR
OCS	OCS	OCCUPANCY SENSOR BY DIVISION 26
T/H	T/H	TEMPERATURE/HUMIDITY SENSOR
T	T	THERMOSTAT/SENSOR
H	H	RELATIVE HUMIDITY SENSOR
T/CO2		TEMPERATURE/CO2 SENSOR

MECHANICAL - DUCTWORK - GENERAL NOTES

1. ALL DUCT CONNECTIONS TO EQUIPMENT SHALL BE FLEX CONNECTION TYPE.
2. INSTALL UNITS WITH CLEARANCE FOR SERVICE.
3. REFER TO SYMBOL LIST ON THIS SHEET.
4. PROVIDE LOW LEAK VOLUME DAMPERS WITH LOCKING QUADRANTS AT ALL TAKEOFFS AND TO EACH SUPPLY AIR DIFFUSER, DUCTED RETURN AIR DIFFUSER AND EXHAUST AIR DIFFUSER. EACH DAMPERS IN DUCTS 12" AND MORE SHALL BE OPPOSED BLADE TYPE.
5. SHOWN DUCT SIZES ARE CLEAR INSIDE DIMENSION. ALL DUCTS SHALL BE LINED.
6. DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL INTENT OF WORK. NOT EXACT EQUIPMENT LOCATION. ALL CONTRACTORS MUST COORDINATE EQUIPMENT LOCATIONS WITH OTHER TRADES BEFORE WORK BEGINS. DUCT PENETRATIONS AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH STRUCTURAL PLANS.
7. THE SUPPLY AND RETURN AIR SYSTEMS SHALL BE PURGED TO ENSURE ALL FOREIGN PARTICLES ARE REMOVED PRIOR TO THE FINAL CONNECTION TO AIR TERMINAL DEVICES. PROVIDE REPORT FOR THE RECORD.
8. THE LOCATION OF ALL DIFFUSERS, REGISTERS AND GRILLES SHALL BE COORDINATED WITH FIELD LOCATIONS.
9. ALL DUCTWORK ELBOWS ARE TO BE FULL RADIUS OR SQUARED WITH DOUBLE THICKNESS TURNING VANES.
10. PROVIDE SHEET METAL BOX PAINTED BLACK INSIDE FOR ALL RETURN REGISTERS OPENED TO THE PLENUM CEILING.
11. HVAC EQUIPMENT AND DUCTS SHALL NOT BE USED FOR TEMPORARY COOLING OR VENTILATION.
12. PROVIDE FLEXIBLE CONNECTIONS AT ALL LOCATIONS WHERE DUCTS CROSS EXPANSION OR SEISMIC JOINTS. COORDINATE WITH ARCHITECTURAL DRAWINGS.
13. ALL SUSPENDED EQUIPMENT SHALL BE LOCATED 24" MAX. ABOVE CEILING, TO ALLOW EASY ACCESS.

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NEW ENGLAND CAROUSEL MUSEUM
SECOND FLOOR AIR CONDITIONING
95 RIVERSIDE AVENUE BRISTOL, CT 06010

BEMIS ASSOCIATES, L.L.C.
Consulting Engineers
185 Main Street
Farmington, CT 06030
Phone: (860) 666-3233
Fax: (860) 351-2070
www.bemisassociates.com

TITLE
MECHANICAL SYMBOLS, SCHEDULES AND DETAILS

DATE 5/13/2016

DWG. NO.

M2.0

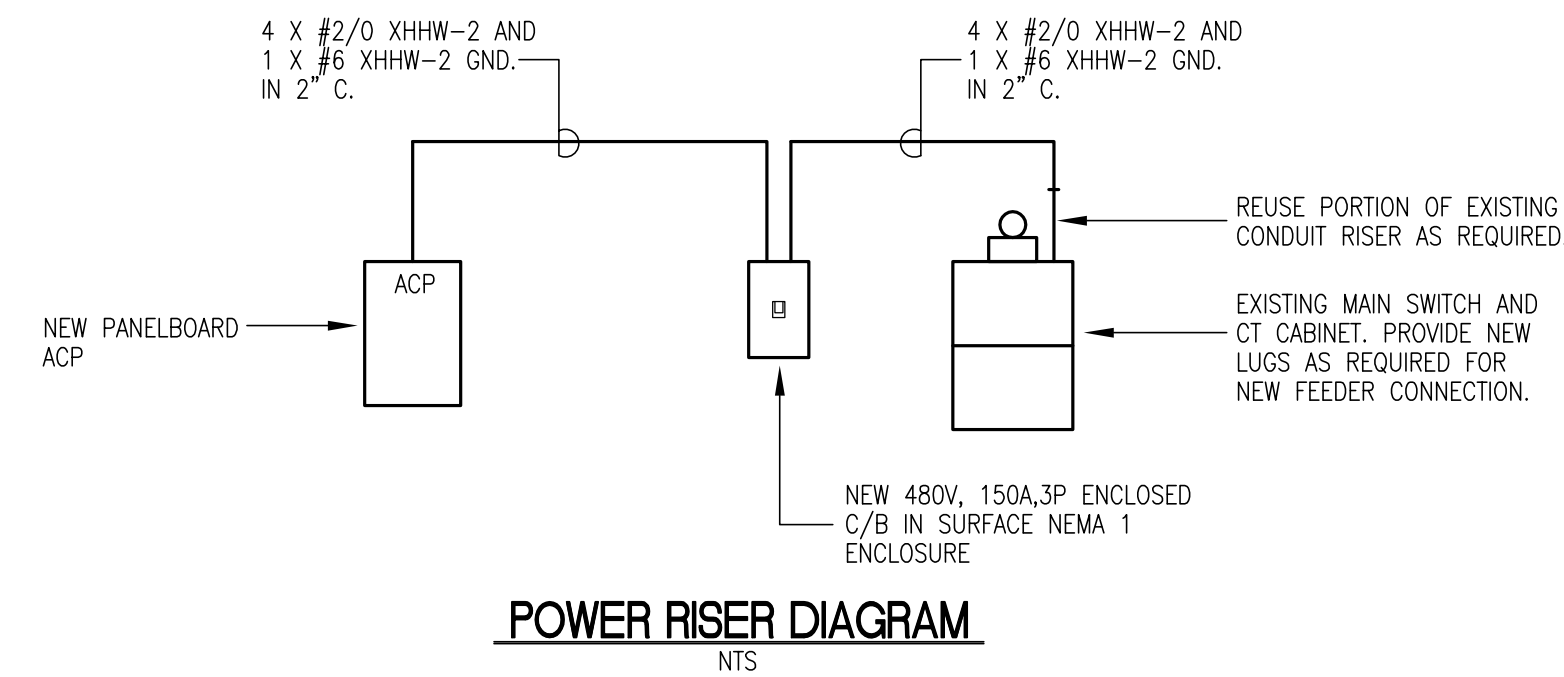
GENERAL SPECIFICATION NOTES - POWER

- THE CONTRACTOR SHALL VERIFY AND OBTAIN ALL NECESSARY DIMENSIONS AT THE BUILDING.
- FINISHED WORK: THE INTENT OF THE SPECIFICATIONS AND DRAWINGS IS TO CALL FOR FINISHED WORK, COMPLETED, TESTED AND READY FOR OPERATION.
- GOOD PRACTICE: IT IS NOT INTENDED THAT THE DRAWINGS SHOW EVERY CONDUIT, JUNCTION BOX, FITTING OR MINOR DETAIL AND IT IS UNDERSTOOD THAT WHILE THE DRAWINGS MUST BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, THE SYSTEMS SHALL BE INSTALLED ACCORDING TO THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS AND IN ACCORDANCE WITH GOOD PRACTICE.
- ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON DRAWINGS BUT MENTIONED IN SPECIFICATIONS OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND PERFECT IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- CODES AND STANDARDS - COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES AND STANDARDS WHEREVER APPLICABLE INCLUDING THE FOLLOWING: 2009 AMENDMENT TO THE 2005 CONNECTICUT STATE BUILDING CODE SUPPLEMENT, 2003 INTERNATIONAL BUILDING CODE, 2005 CONNECTICUT FIRE SAFETY CODE, 2003 INTERNATIONAL FIRE CODE, 2011 NATIONAL ELECTRICAL CODE, ICC/ANSI A117.1-2003 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, ADA, NFPA, UNDERWRITERS LABORATORIES, FACTORY MUTUAL INSURANCE COMPANY, NEMA STANDARDS.
- NOTE THAT THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF THE ELECTRICAL EQUIPMENT AND SYSTEMS, WITHOUT SHOWING EVERY DETAIL AND FITTING.
- RACEWAYS: PROVIDE EMT CONDUIT FOR ALL WIRING, EMT CONNECTORS AND COUPLINGS SHALL BE GALVANIZED STEEL SET-SCREW TYPE. PROVIDE GLAND COMPRESSION CONNECTORS AND COUPLINGS WHERE LOCATED IN DAMP AND WET LOCATIONS. PROVIDE FLEXIBLE STEEL CONDUIT FOR FINAL CONNECTIONS TO MOTOR DRIVEN EQUIPMENT. PROVIDE LIQUIDTIGHT FLEXIBLE STEEL CONDUIT WHERE LOCATED IN DAMP OR WET AREAS.
- BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, RATED 600 VOLTS, 90 DEG.C., COLOR CODED, TYPE XHHW-2.
- WIRE SIZE #8 AWG AND LARGER SHALL BE STRANDED. WIRE OF SIZE SMALLER THAN #8 AWG SHALL BE SOLID.
- MINIMUM SIZE CONDUCTORS FOR POWER AND LIGHTING SHALL BE #12 AWG. PROVIDE MINIMUM #10 AWG SIZE FOR RUNS EXCEEDING 75' IN CONDUCTOR LENGTH, AND #8 AWG SIZE FOR RUNS EXCEEDING 150' IN CONDUCTOR LENGTH. PROVIDE LARGER SIZE CONDUCTORS AS SCHEDULED OR AS NOTED ON THE DRAWINGS.
- THE NUMBER OF WIRES IN A CONDUIT RUN IS INDICATED ON THE DRAWINGS BY CROSS LINES ON THE CONDUIT RUNS. PROVIDE CODE-SIZED CONDUIT FOR THE NUMBER AND SIZE OF WIRES UNLESS A LARGER SIZE IS SHOWN ON THE DRAWINGS. MINIMUM CONDUIT SIZE SHALL BE 3/4".
- RACEWAYS SHALL BE CONCEALED WHEREVER POSSIBLE IN ALL FINISHED AREAS.
- RACEWAYS SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO WALL LINES.
- RACEWAYS SHALL BE SUPPORTED FROM THE STRUCTURE BY STRAP HANGERS, ROD HANGERS, OR RACK MOUNTED, OR OTHER APPROVED ELECTRICAL MOUNTING.
- PROVIDE FIRE STOPPING AT ALL FIRE AND/OR SMOKE RATED WALL OR CEILING PENETRATIONS IN ORDER TO MAINTAIN ITS ORIGINAL INTEGRITY.
- OUTLET BOXES SHALL BE CODE GAUGE GALVANIZED STEEL AND SHALL BE OF SHAPES AND SIZES TO SUIT THEIR RESPECTIVE LOCATIONS AND INSTALLATIONS, AND SHALL BE PROVIDED WITH COVERS TO SUIT THEIR FUNCTION AND INSTALLATION. MINIMUM BOX SIZE SHALL BE 4" SQ. X 2 1/8" DEEP (2-GANG).
- OUTLET BOXES SHALL BE EQUIPPED WITH FIXTURE STUD OR STRAPS WHERE REQUIRED.
- INSTALL BOXES IN ACCESSIBLE LOCATIONS AND AT UNIFORM HEIGHTS.
- SET BOXES AND COVERS SQUARE AND TRUE WITH BUILDING FINISH.
- BRANCH CIRCUIT WIRING AND ARRANGEMENT OF HOME RUNS HAS BEEN DESIGNED FOR MAXIMUM ECONOMY CONSISTENT WITH ADEQUATE SIZING FOR VOLTAGE DROPS, CIRCUIT CAPACITIES, AND OTHER CONSIDERATIONS. INSTALL THE WIRING WITH CIRCUITS ARRANGED AS SHOWN ON THE DRAWINGS, EXCEPT AS APPROVED IN ADVANCE BY THE ARCHITECT AND ENGINEER. DO NOT MAKE CHANGES WITHOUT PRIOR APPROVAL.
- PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH 120V SINGLE PHASE CIRCUIT. DO NOT USE A COMMON NEUTRAL FOR GROUPS OF CIRCUITS. PROVIDE A SEPARATE GROUND WIRE FOR EACH CIRCUIT BACK TO THE RESPECTIVE PANEL GROUND. IF MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE INSTALLED IN ONE CONDUIT THEY SHALL BE DE-RATED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. DO NOT INSTALL MORE THAN THREE 30 AMP SINGLE PHASE OR FOUR 20 AMP SINGLE PHASE CIRCUITS IN THE SAME CONDUIT.

PANEL #ACP - CUTLER-HAMMER TYPE PRL3a, SURFACE, 480Y/277V, 3-PHASE, 4 WIRE, 250 AMP MAIN LUGS, 42K A.I.C. MIN. (FULLY RATED)

CKT	TRIP	POLE	REMARKS	CKT	TRIP	POLE	REMARKS
1	30	3	RTU-1	2	30	3	RTU-2
3	-	-	-	4	-	-	-
5	-	-	-	6	-	-	-
7	30	3	RTU-3	8	30	3	RTU-4
9	-	-	-	10	-	-	-
11	-	-	-	12	-	-	-
13	20	1	SPARE	14	20	1	SPARE
15	-	-	SPACE	16	-	-	SPACE
17	-	-	SPACE	18	-	-	SPACE

- NOTES:
- PROVIDE WITH COPPER BUS BARS AND COPPER GROUND BAR.
 - PROVIDE WITH DOOR-IN-DOOR TRIM.
 - PROVIDE WITH BLACK FACE, WHITE CORE ENGRAVED NAMEPLATE FIXED TO PANEL WITH TWO SCREWS OR RIVETS.
 - PROVIDE WITH METAL FRAME, PLASTIC COVER CIRCUIT DIRECTORY FRAME.
 - PROVIDE WITH TYPE WRITTEN CIRCUIT DIRECTORY REPRESENTING CIRCUITS AS ACTUALLY CONNECTED TO PANEL.
 - CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.

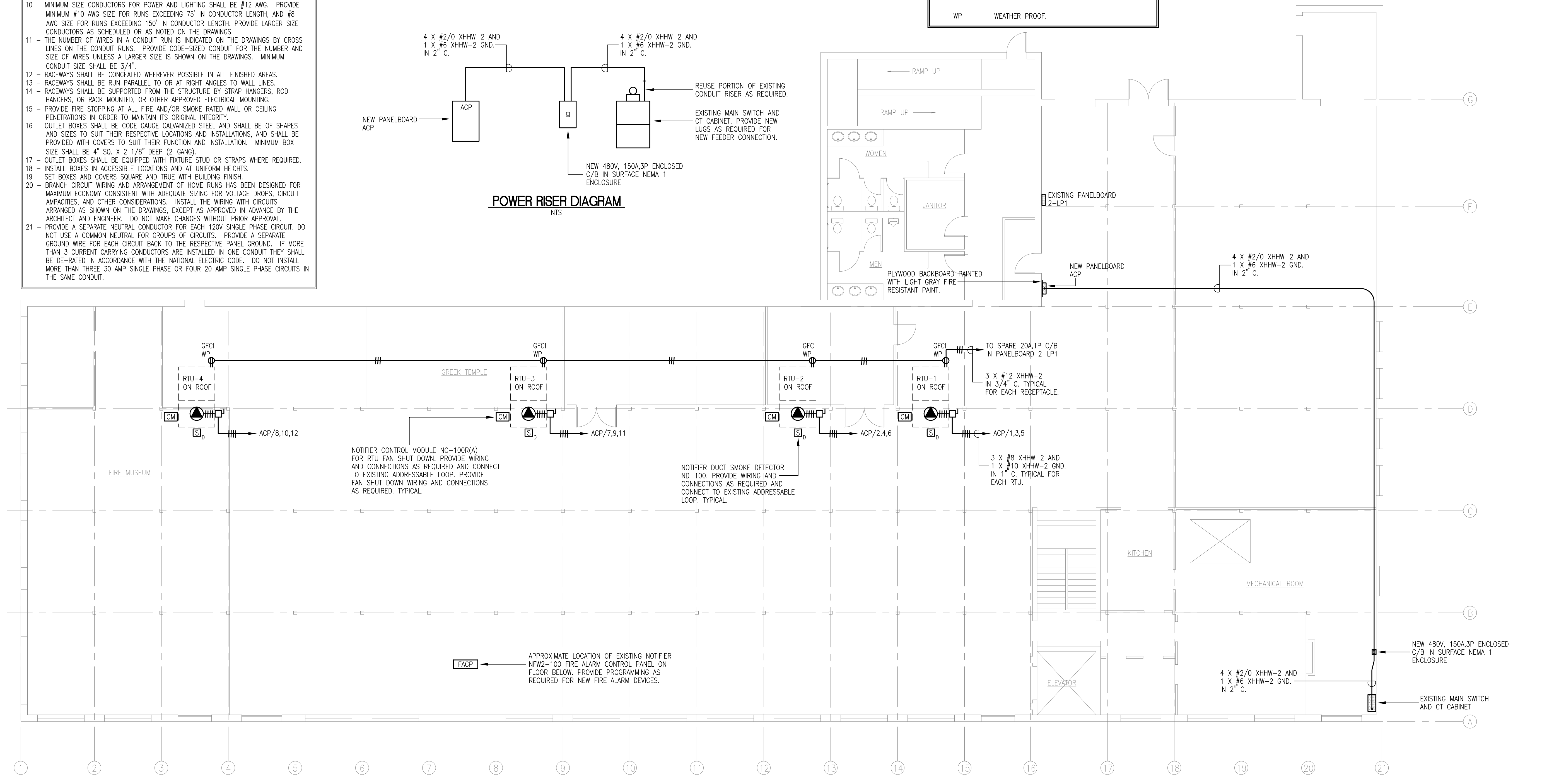


ABBREVIATIONS

A	AMPS.
AWG	AMERICAN WIRE GAUGE.
C	CONDUIT.
C/B	CIRCUIT BREAKER.
GFCI	INDICATES DEVICE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.
GND	GROUND.
KVA	KILOVOLT-AMPS.
KW	KILOWATT.
NTS	NOT TO SCALE.
RTU	ROOF TOP UNIT.
V	VOLTS.
WP	WEATHER PROOF.

ELECTRICAL DRAWING LEGEND SYMBOLS

	DUPLEX RECEPTACLE, 18" AFF UNLESS NOTED DIFFERENTLY.
	PANELBOARD.
	BRANCH CIRCUIT WIRING. CROSS LINES INDICATE NUMBER OF CONDUCTORS.
	BRANCH CIRCUIT HOMERUN IN CONDUIT. CROSS LINES INDICATE NUMBER OF CONDUCTORS.
	DISCONNECT SWITCH.
	SPECIAL EQUIPMENT POWER CONNECTION, EQUIPMENT AS DESIGNATED.



SECOND FLOOR/ROOF - POWER PLAN
SCALE: 1/8"=1'-0"

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SECOND FLOOR AIR CONDITIONING
95 RIVERSIDE AVENUE BRISTOL, CT 06010

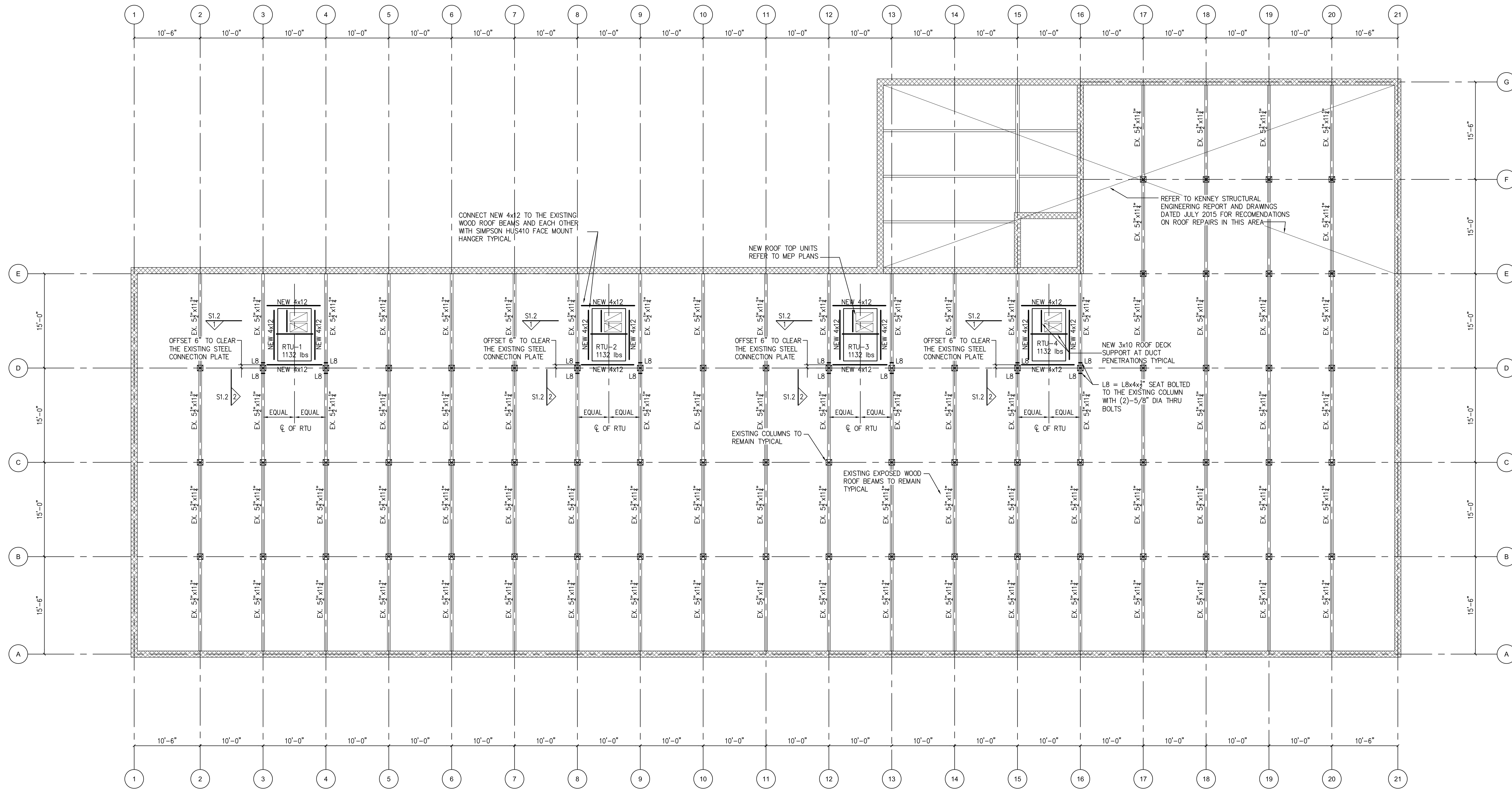
BEMIS ASSOCIATES, L.L.C.
Consulting Engineers
185 Main Street
Farmington, CT 06030
Phone: (860) 667-3233
Fax: (860) 351-7070
www.bemisassociates.com

TITLE
POWER PLAN

DATE 4/01/2016

DWG. NO.

EP1.1



CONNECT NEW 4x12 TO THE EXISTING WOOD ROOF BEAMS AND EACH OTHER WITH SIMPSON HUS410 FACE MOUNT HANGER TYPICAL

NEW ROOF TOP UNITS REFER TO MEP PLANS

REFER TO KENNEY STRUCTURAL ENGINEERING REPORT AND DRAWINGS DATED JULY 2015 FOR RECOMMENDATIONS ON ROOF REPAIRS IN THIS AREA

OFFSET 6" TO CLEAR THE EXISTING STEEL CONNECTION PLATE

OFFSET 6" TO CLEAR THE EXISTING STEEL CONNECTION PLATE

OFFSET 6" TO CLEAR THE EXISTING STEEL CONNECTION PLATE

OFFSET 6" TO CLEAR THE EXISTING STEEL CONNECTION PLATE

OFFSET 6" TO CLEAR THE EXISTING STEEL CONNECTION PLATE

NEW 3x10 ROOF DECK SUPPORT AT DUCT PENETRATIONS TYPICAL

L6 = L6x4x3/8 SEAT BOLTED TO THE EXISTING COLUMN WITH (2)-5/8" DIA THRU BOLTS

EXISTING COLUMNS TO REMAIN TYPICAL

EXISTING EXPOSED WOOD ROOF BEAMS TO REMAIN TYPICAL

ROOF FRAMING PLAN

1/8"=1'-0"

1
S1.1

NOTES:

1. VERIFY ALL EXISTING DIMENSIONS IN THE AREA OF WORK PRIOR TO FABRICATING OR ORDERING ANY NEW MATERIALS.
2. REFER TO BEMIS ASSOCIATES CONSULTING ENGINEERS MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

Toce Structural Engineering LLC
1755 Meriden Waterbury Turnpike
Unit 6, P.O. Box 365
Middletown, CT 06457-0365
T: 860-863-9978 F: 860-426-3174

Seal

New England Carousel Museum
Second Floor Air Conditioning
95 Riverside Avenue
Bristol CT 06010

TITLE
Roof Framing Plan

DATE 08/18/16

DWG. NO.

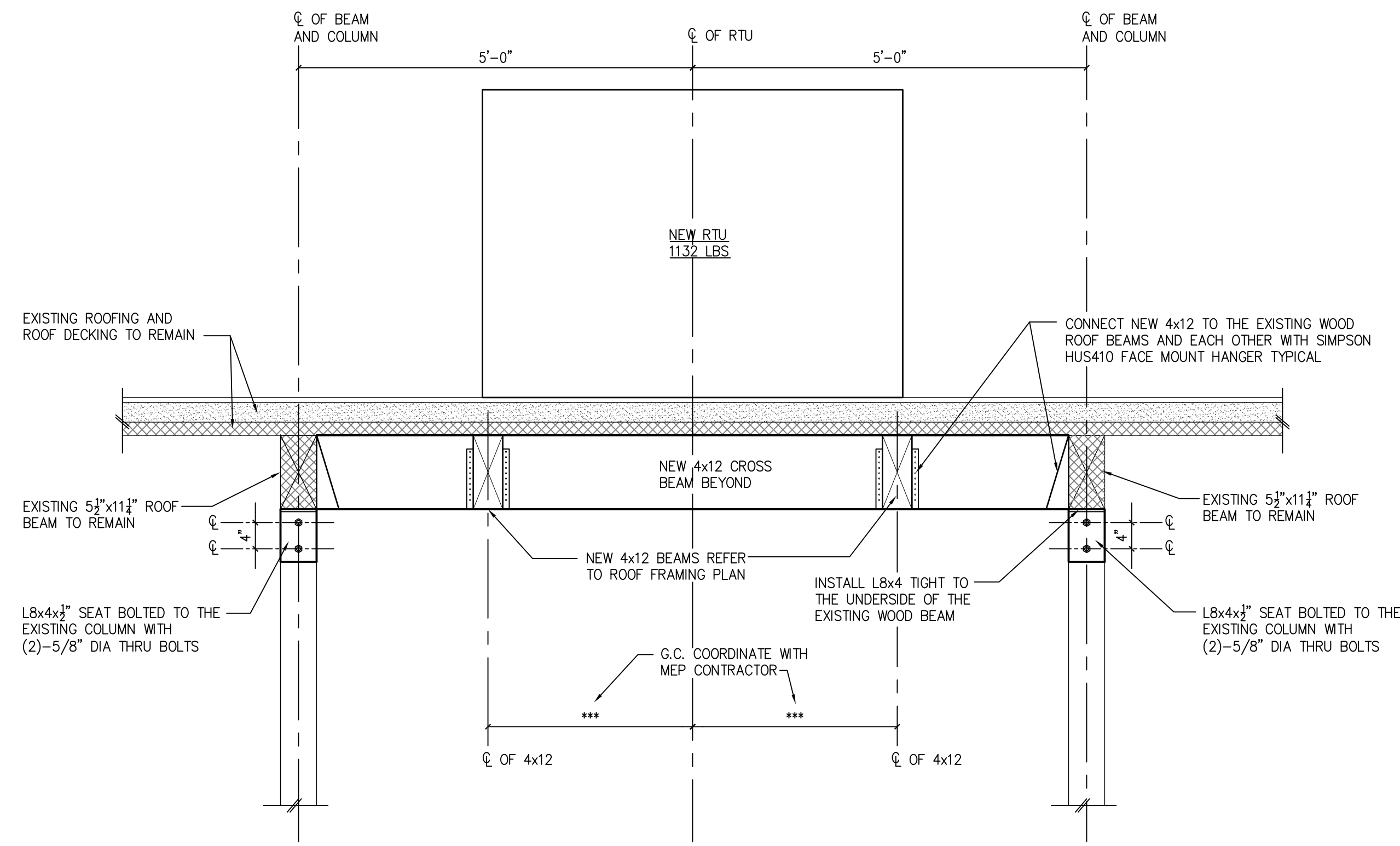
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WOOD

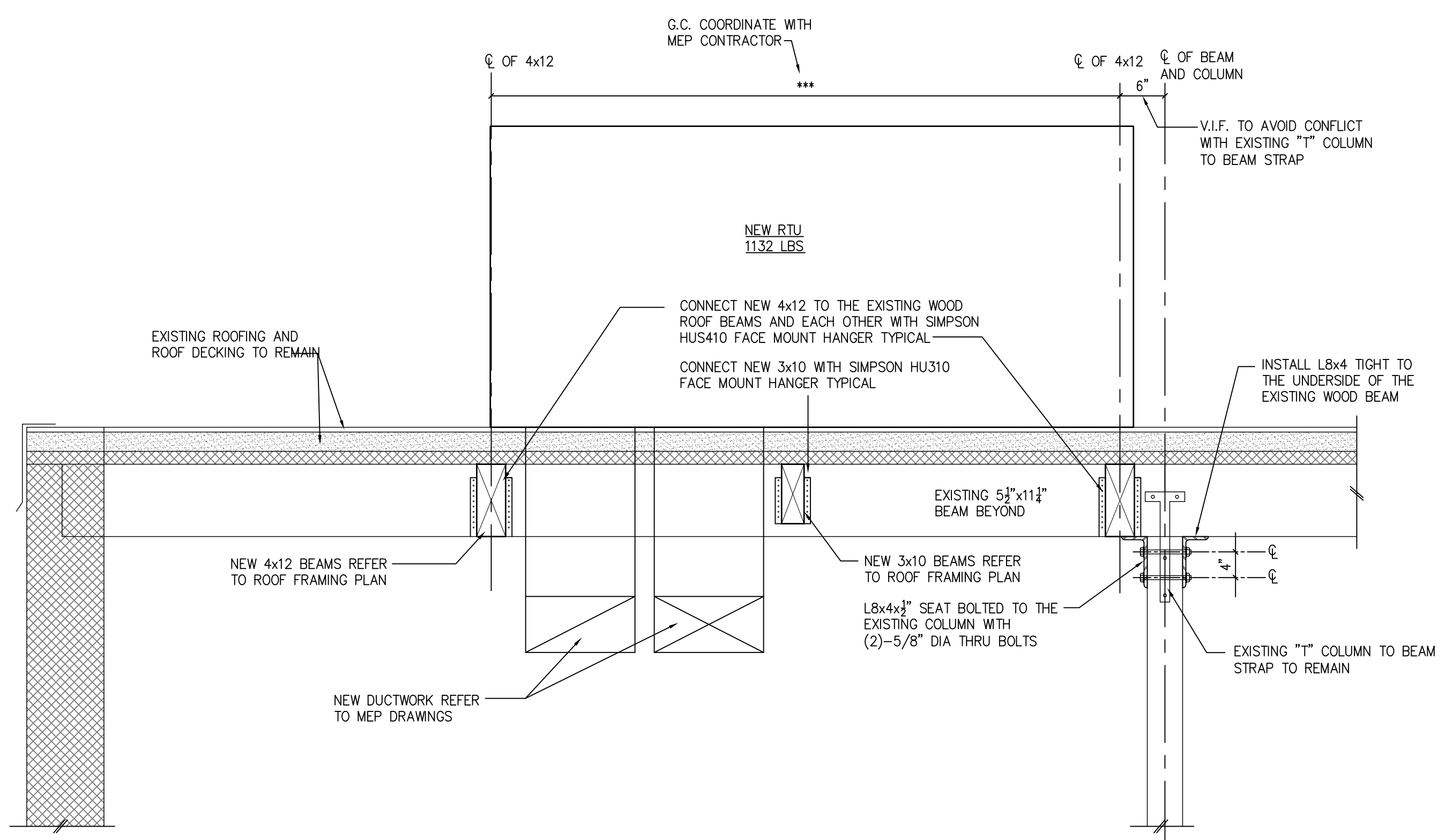
- 3x10 AND 4x12 LUMBER TO BE DOUGLAS FIR LARCH KILN DRIED WITH THE FOLLOWING MATERIAL MINIMUM PROPERTIES
 Fb 1200 PSI, Fv=180 PSI, MODULUS OF ELASTICITY E=1.5*10⁶ PSI.
 THE INTENT IS FOR THE NEW ROOF TOP UNIT SUPPORT BEAMS TO MATCH THE COLOR OF THE EXISTING ROOF FRAMING. THE NEW 3X AND 4X IS TO BE STAINED THE SAME COLOR AS THE EXISTING WOOD FRAMING. G.C. TO PROVIDE A SAMPLE FOR APPROVAL BY THE OWNER PRIOR TO INSTALLING ANY NEW WORK.
 THE SIMPSON JOIST HANGERS ARE TO BE PAINTED A FLAT GRAY THE MATCHING THE COLOR OF THE EXISTING "T" COLUMN TO BEAM STRAPS. PAINT THE SIMPSON JOIST HANGER NAIL HEADS AND TOUCH UP ANY SCRATCHES THAT MIGHT HAVE OCCURRED DURING INSTALLATION.
- PROVIDE PRODUCT SUBMITTALS FOR THE WOOD PRODUCTS THAT WILL BE SUPPLIED ON THE PROJECT. OTHER WOOD PRODUCT MANUFACTURERS CAN BE USED PROVIDED THE MATERIAL AND SECTION PROPERTIES MATCH WHAT IS SPECIFIED ABOVE AND FOR WHAT IS SPECIFIED ON THE FRAMING PLANS AND DETAILS.
- WHERE APPLICABLE PROVIDE FASTENERS, HARDWARE, AND HANGERS THAT ARE RESISTANT TO CORROSION WHEN USED IN CONJUNCTION WITH PRESSURE TREATED LUMBER.

GENERAL NOTES

- SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
- LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO REQUIREMENTS OF OTHER (NON-STRUCTURAL) DISCIPLINES ARE SHOWN FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL OBTAIN FROM THE HEATING AND VENTILATING, ELECTRICAL, PLUMBING AND OTHER SUBCONTRACTORS THE FINAL APPROVED SIZE AND LOCATION OF ALL OPENINGS AND WORK TO BE PROVIDED FOR THEIR TRADE IN ROOFS, FLOORS AND WALLS, WHETHER SHOWN OR NOT ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSMISSION OF REQUIREMENTS, LOCATIONS AND DETAILS TO STRUCTURAL SUBCONTRACTORS. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS ARE NOT TO BE BORNE BY THE OWNER.
- MECHANICAL EQUIPMENT WEIGHTS USED IN DESIGN OF SUPPORTING ELEMENTS HAVE BEEN INDICATED ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO INSTALLATION IF ACTUAL WEIGHT EXCEEDS WEIGHT SHOWN ON DRAWINGS.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- SHOP DRAWINGS ARE TO BE CHECKED BY THE CONTRACTOR AND SUBCONTRACTOR AND BEAR CHECKER'S INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK.
- ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY FOR THE SAME AND SIMILAR SITUATIONS THROUGHOUT THE BUILDING, UNLESS OTHERWISE SPECIFICALLY NOTED.



SECTION 1
3/4"=1'-0"



SECTION 2
3/4"=1'-0"

Toce Structural Engineering LLC
 1755 Meriden Waterbury Turnpike
 Unit 6, P.O. Box 365
 Milldale, CT 06467-0365
 T: 860-863-9978 F: 860-426-3174

Seal

New England Carousel Museum
 Second Floor Air Conditioning
 95 Riverside Avenue
 Bristol CT 06010

TITLE
 Sections and Details I

DATE 08/18/16

DWG. NO.

S1.2