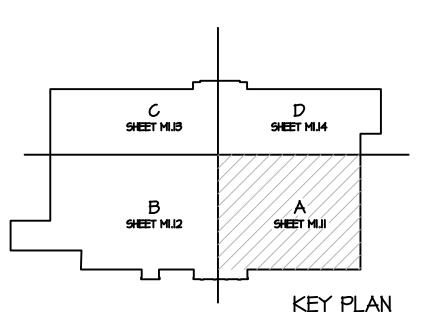
- 1. DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS. MAINTAIN ALL
- CODE REQUIRED CLEARANCES. COORDINATE ALL ROOF, WALL, AND FLOOR PENETRATIONS WITH GENERAL CONTRACTOR. SEAL PENETRATIONS OF EXTERIOR ENVELOPE WATERTIGHT.
- FIRE CAULK AROUND ALL PENETRATIONS THROUGH FIRE RATED WALLS. COORDINATE LOCATION OF DIFFUSERS, REGISTERS, AND GRILLES WITH
- 4. UNLESS OTHERWISE NOTED, ALL SUPPLY / RETURN AIR RUNOUTS SHALL MATCH RESPECTIVE NECK SIZE. ALL RUNOUTS SHALL HAVE VOLUME DAMPERS. INSTALL ALL VOLUME DAMPERS ABOVE ACCESSIBLE CEILINGS
- OR IN OTHER ACCESSIBLE LOCATIONS. CONTRACTOR SHALL COORDINATE ALL DUCT ROUTING WITH ALL OTHER TRADES. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION AND AVOID
- MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AROUND ALL MECHANICAL EQUIPMENT TO ALLOW PROPER OPERATION AND EASY MAINTENANCE ACCESS.
- 7. UNLESS NOTED OTHERWISE, LOCATE ALL DUCT AS HIGH AS POSSIBLE. UTILIZE JOIST SPACE AND OPEN WEBBING OF JOISTS WHEN POSSIBLE. LOCATE AIR OUTLETS SYMMETRICAL WITH ARCHITECTURAL / LIGHTING
- 8. SEE DUCT FITTINGS DETAIL 5, SHEET M3.11.
- PROVIDE RETURN AIR BOOTS PER DETAIL 3, SHEET M3.12 FOR ALL GRILLES MARKED <u>G-1</u> AND <u>G-2</u>.
- 10. S REPRESENTS A TEMPERATURE SENSOR WITHOUT ADJUSTMENTS © REPRESENTS A COMBINATION TEMPERATURE AND CO2 SENSOR T REPRESENTS A THERMOSTAT WITH ADJUSTMENTS (PROVIDE COMBINATION TEMPERATURE / HUMIDITY SENSOR WHEN POSSIBLE)
- ROUGH-INS FOR THERMOSTATS / TEMPERATURE SENSORS BY ELECTRICAL CONTRACTOR - SEE ELECTRICAL PLANS.
- 12. THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS ARE SHOWN FOR CLARITY. LOCATE TEMPERATURE SENSORS ADJACENT TO DOORS, ELECTRICAL DEVICES, AND OTHER BUILDING COMPONENTS. DO NOT LOCATE SENSORS IN MIDDLE OF WALLS OR BEHIND DOOR SWINGS.
- ————— SOLID LINE INDICATES SHEET METAL DUCTWORK — · — — DASHED LINE INDICATES FABRIC DUCTWORK
- 14. SEE ARCHITECTURAL SPECIFICATION SECTION 01 5000 "TEMPORARY FACILITIES AND CONTROLS" FOR FILTRATION REQUIREMENTS DURING TEMPORARY USE OF HVAC SYSTEMS PRIOR TO BUILDING TURNOVER.

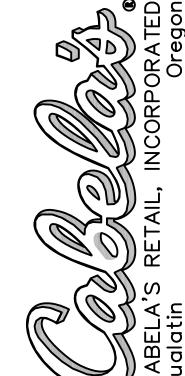
FLAG NOTES

- NOTE: FLAG NOTES ARE COMMON TO SHEETS M1.11, M1.12, M1.13, & M1.14. NOT ALL FLAG NOTES MAY BE USED ON EACH SHEET.
- 1 DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- 2 LOCATE DIFFUSER AS HIGH AS POSSIBLE IN GUN STORAGE. ROUTE ASSOCIATED S.A. RUNOUT THROUGH CEILING STRUCTURE. PROVIDE FIRE
- 3 ROUTE R.A. DUCTWORK THROUGH GUN STORAGE CEILING STRUCTURE. TERMINATE DUCT APPROXIMATELY 2" BELOW BOTTOM OF STRUCTURE. PROVIDE 1/2" MESH TO PROTECT DUCT OPENING. COORDINATE EXACT LOCATION WITH STRUCTURE. SEE SHEET M1.23 FOR CONTINUATION.
- 4 S.A. & R.A. MAINS UP, SEE SHEET M1.22 FOR CONTINUATION.
- 5 ELECTRIC UNIT HEATER, LOCATION SHOWN FOR CLARITY SEE ELECTRICAL
- PLANS FOR EQUIPMENT SPECIFICATIONS AND EXACT LOCATION. 6 GAS FIREPLACE FLUE AND ROOF TERMINATION MATERIAL FURNISHED WITH FIREPLACE - SEE ARCHITECTURAL PLANS AND SPECIFICATIONS. FLUE AND ROOF TERMINATION INSTALLED BY MECHANICAL CONTRACTOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS, APPLICABLE CODE REQUIREMENTS, AND AUTHORITY HAVING JURISDICTION.
- > ROUTE FABRIC DUCTWORK IN JOIST SPACE. COORDINATE EXACT LOCATION WITH STRUCTURE. FABRIC DUCT AIR DISTRIBUTION SHALL BE DESIGNED BY DUCT MANUFACTURER (DUCT SOX). CENTER LINE OF DUCT LOCATED APPROXIMATELY 10'-9" ABOVE FINISHED FLOOR. EVENLY DISTRIBUTE AIRFLOW TO OCCUPIED SPACES ON BOTH SIDES OF DUCTWORK. GENERAL DUCT CONFIGURATION SHALL MATCH CONFIGURATION INDICATED ON PLAN. INSTALL FABRIC DUCT SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY SUPPORTS, FITTINGS, AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM. SEE DETAILS 8 AND 9, SHEET M3.12.
- 8 INSTALL DUCT HEATER PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN CODE REQUIRED CLEARANCE IN FRONT OF CONTROL PANEL. SEE DETAIL 2, SHEET M3.12.
- 9 CENTER EXHAUST GRILLE IN COFFER SPACE. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR DIMENSIONS.
- 10 LOCATE SENSOR ON COLUMN SEE COLUMN DETAILS ON SHEET A7.05 FOR LOCATION / ELEVATION REQUIREMENTS.
- 16/10 E.A. WITH 14" x 14" SCREENED OPENING ON TOP. LOCATE DUCTWORK AS HIGH AS POSSIBLE IN ARCHERY RANGE 124 - BOTTOM OF
- DUCT AT APPROXIMATELY 9'-7" A.F.F. BALANCE TO 650 CFM.
- 12 PROVIDE HEAVY DUTY, LOCKABLE PLASTIC THERMOSTAT COVER.
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- WITH GENERAL CONTRACTOR. 18 ROUTE DUCT THROUGH EXTERIOR WALL INTO ATTIC SPACE ABOVE EXIT VESTIBULE. TRANSITION DOWN INTO CEILING SPACE ABOVE VESTIBULE.
- 19 PROVIDE INSULATED MOUNTING PLATE AND HEAVY DUTY, LOCKABLE PLASTIC THERMOSTAT COVER.
- 20 SUPPORT INLINE EXHAUST FANS FROM STRUCTURAL STEEL, SEE DETAIL 11, M3.11. MAINTAIN ALL MANUFACTURER'S RECOMMENDED
- 21 INSTALL LOUVER IN CANOPY CEILING. CENTER IN COFFER SPACE.
- 22 SUPPORT FCU-1 FROM STRUCTURAL STEEL, SEE DETAIL 10, M3.12. MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES.
- COORDINATE INSTALLATION WITH AQUARIUM CONTRACTOR. 23 ROUTE REFRIGERANT PIPING TO FCU-1 AND WATER FEATURE EVAPORATOR UNITS. FIELD VERIFY LOCATION OF WATER FEATURE
- EVAPORATOR UNITS. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY REFRIGERANT SPECIALTIES AS RECOMMENDED BY THE MANUFACTURER. PROVIDE TRANSFER GRILLE IN MOUNTAIN SHELL TO ALLOW AIR TRANSFER FROM THE SALES FLOOR INTO EQUIPMENT ROOM 129A.

SEISMIC DESIGN REQ'TS

1. SEE SHEET M1.14 FOR COMPLETE NOTES.





bela's



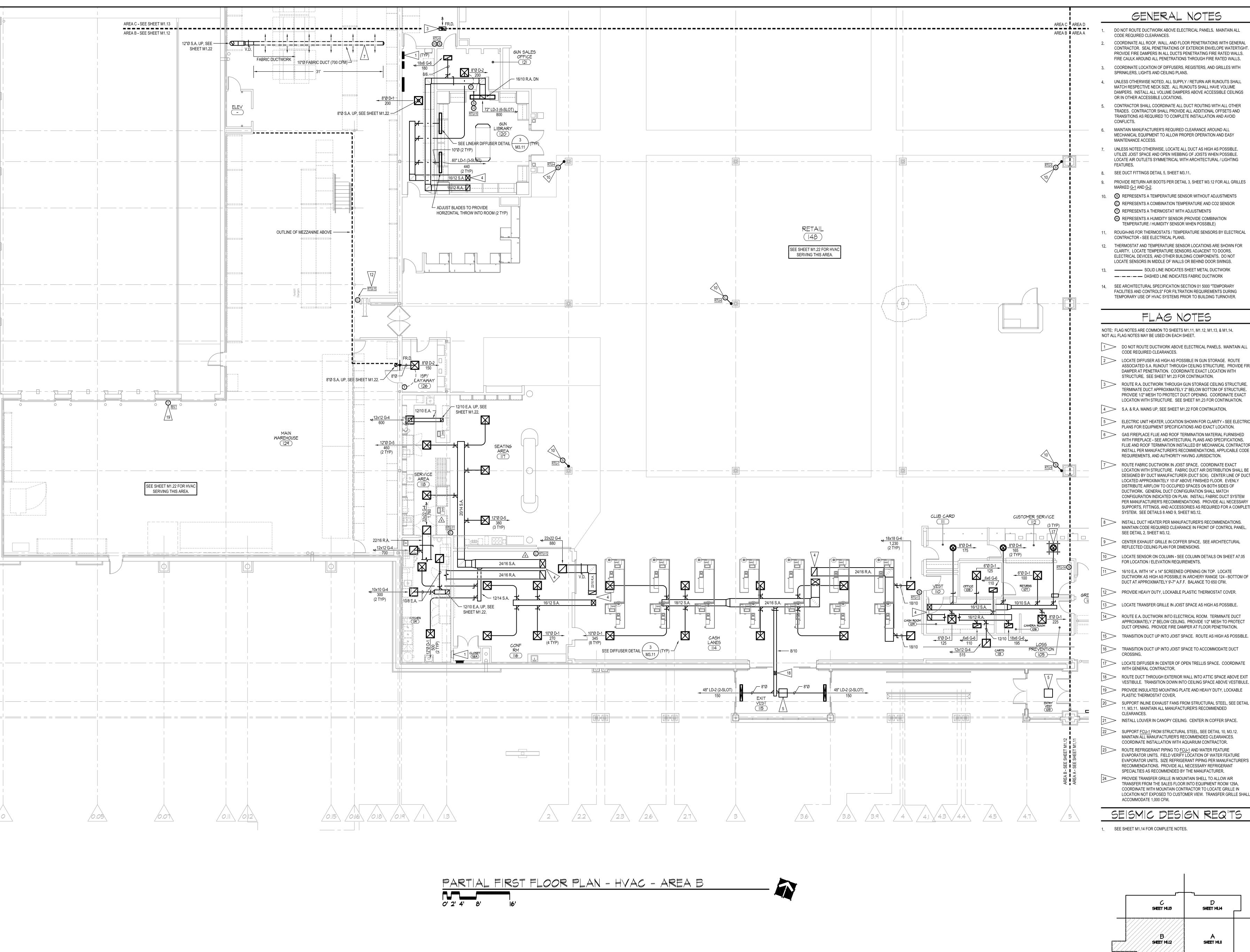
Revisions: Permit Issue 10-03-13

Rev 4, CCD 2

Drawing Name: PARTIAL FIRST FLOOR PLAN -

HVAC - AREA A Drawn By:

Date: 06 February 2014 Sheet Number:



DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS. MAINTAIN ALL

COORDINATE ALL ROOF, WALL, AND FLOOR PENETRATIONS WITH GENERAL

PROVIDE FIRE DAMPERS IN ALL DUCTS PENETRATING FIRE RATED WALLS. FIRE CAULK AROUND ALL PENETRATIONS THROUGH FIRE RATED WALLS. COORDINATE LOCATION OF DIFFUSERS, REGISTERS, AND GRILLES WITH

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TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION AND AVOID MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AROUND ALL

MECHANICAL EQUIPMENT TO ALLOW PROPER OPERATION AND EASY

UNLESS NOTED OTHERWISE, LOCATE ALL DUCT AS HIGH AS POSSIBLE UTILIZE JOIST SPACE AND OPEN WEBBING OF JOISTS WHEN POSSIBLE. LOCATE AIR OUTLETS SYMMETRICAL WITH ARCHITECTURAL / LIGHTING

SEE DUCT FITTINGS DETAIL 5, SHEET M3.11.

PROVIDE RETURN AIR BOOTS PER DETAIL 3, SHEET M3.12 FOR ALL GRILLES

S REPRESENTS A TEMPERATURE SENSOR WITHOUT ADJUSTMENTS © REPRESENTS A COMBINATION TEMPERATURE AND CO2 SENSOR T REPRESENTS A THERMOSTAT WITH ADJUSTMENTS

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12. THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS ARE SHOWN FOR CLARITY. LOCATE TEMPERATURE SENSORS ADJACENT TO DOORS. ELECTRICAL DEVICES, AND OTHER BUILDING COMPONENTS. DO NOT LOCATE SENSORS IN MIDDLE OF WALLS OR BEHIND DOOR SWINGS.

— · — — DASHED LINE INDICATES FABRIC DUCTWORK

FACILITIES AND CONTROLS" FOR FILTRATION REQUIREMENTS DURING TEMPORARY USE OF HVAC SYSTEMS PRIOR TO BUILDING TURNOVER.

FLAG NOTES

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S.A. & R.A. MAINS UP, SEE SHEET M1.22 FOR CONTINUATION.

5 ELECTRIC UNIT HEATER, LOCATION SHOWN FOR CLARITY - SEE ELECTRICAL PLANS FOR EQUIPMENT SPECIFICATIONS AND EXACT LOCATION. 6 GAS FIREPLACE FLUE AND ROOF TERMINATION MATERIAL FURNISHED

WITH FIREPLACE - SEE ARCHITECTURAL PLANS AND SPECIFICATIONS. FLUE AND ROOF TERMINATION INSTALLED BY MECHANICAL CONTRACTOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS, APPLICABLE CODE REQUIREMENTS, AND AUTHORITY HAVING JURISDICTION.

LOCATION WITH STRUCTURE. FABRIC DUCT AIR DISTRIBUTION SHALL BE DESIGNED BY DUCT MANUFACTURER (DUCT SOX). CENTER LINE OF DUCT DISTRIBUTE AIRFLOW TO OCCUPIED SPACES ON BOTH SIDES OF DUCTWORK. GENERAL DUCT CONFIGURATION SHALL MATCH CONFIGURATION INDICATED ON PLAN. INSTALL FABRIC DUCT SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY SUPPORTS, FITTINGS, AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM. SEE DETAILS 8 AND 9, SHEET M3.12.

INSTALL DUCT HEATER PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN CODE REQUIRED CLEARANCE IN FRONT OF CONTROL PANEL.

9 CENTER EXHAUST GRILLE IN COFFER SPACE. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR DIMENSIONS.

LOCATE SENSOR ON COLUMN - SEE COLUMN DETAILS ON SHEET A7.05

16/10 E.A. WITH 14" x 14" SCREENED OPENING ON TOP. LOCATE DUCTWORK AS HIGH AS POSSIBLE IN ARCHERY RANGE 124 - BOTTOM OF

12 PROVIDE HEAVY DUTY, LOCKABLE PLASTIC THERMOSTAT COVER.

LOCATE TRANSFER GRILLE IN JOIST SPACE AS HIGH AS POSSIBLE.

ROUTE E.A. DUCTWORK INTO ELECTRICAL ROOM. TERMINATE DUCT APPROXIMATELY 2" BELOW CEILING. PROVIDE 1/2" MESH TO PROTECT DUCT OPENING. PROVIDE FIRE DAMPER AT FLOOR PENETRATION.

16 TRANSITION DUCT UP INTO JOIST SPACE TO ACCOMMODATE DUCT

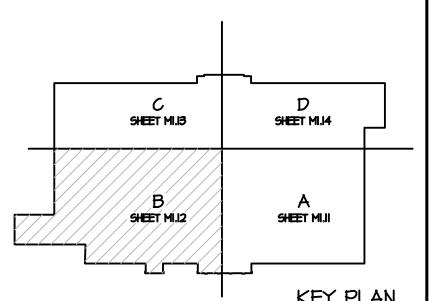
17 LOCATE DIFFUSER IN CENTER OF OPEN TRELLIS SPACE. COORDINATE

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SUPPORT INLINE EXHAUST FANS FROM STRUCTURAL STEEL, SEE DETAIL 11, M3.11. MAINTAIN ALL MANUFACTURER'S RECOMMENDED

22 SUPPORT <u>FCU-1</u> FROM STRUCTURAL STEEL, SEE DETAIL 10, M3.12. MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES. COORDINATE INSTALLATION WITH AQUARIUM CONTRACTOR.

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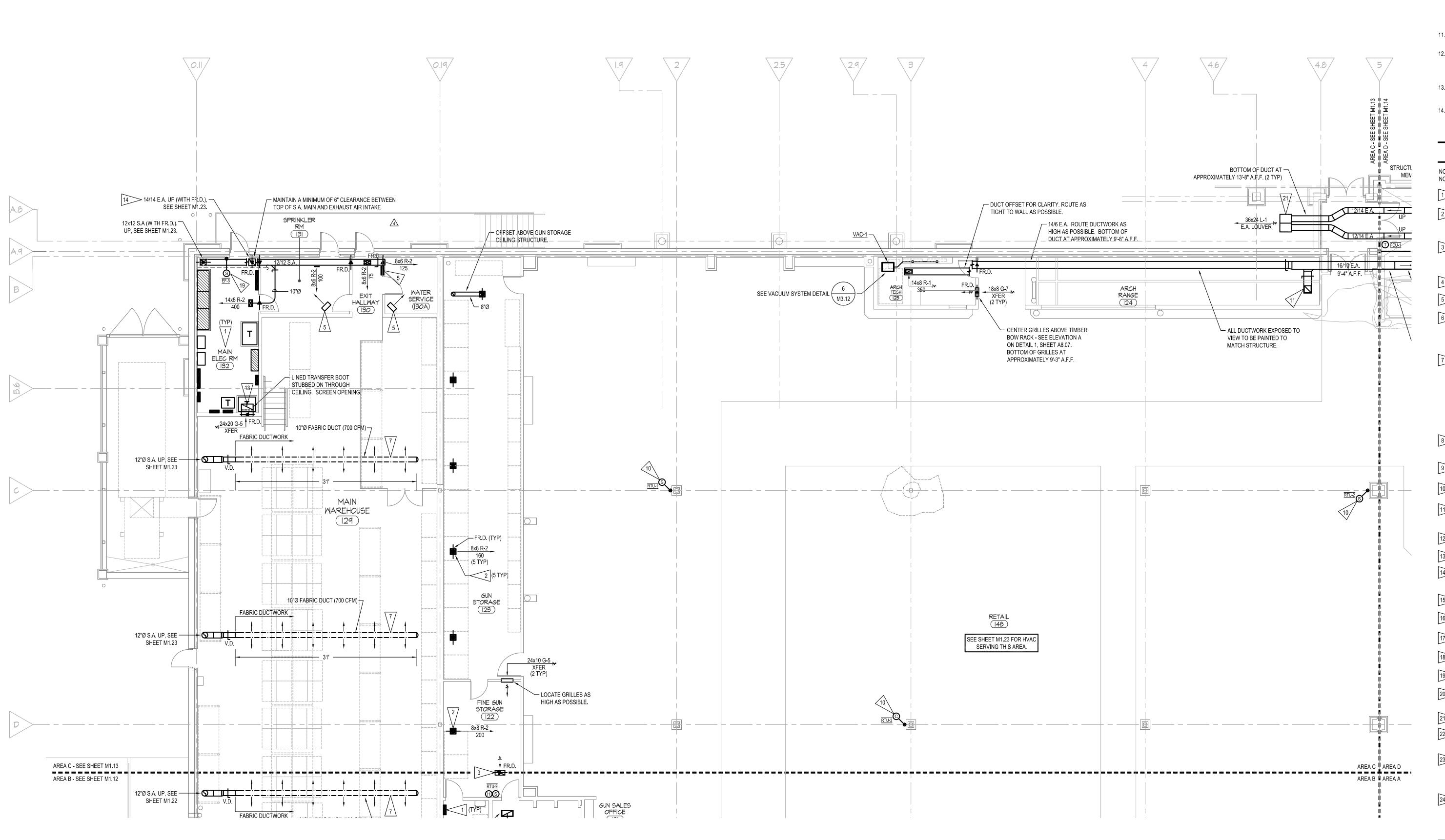
abela's

Permit Issue

Rev 4, CCD 2

Drawing Name: PARTIAL FIRST FLOOR PLAN -HVAC - AREA B

Date: 06 February 2014



PARTIAL FIRST FLOOR PLAN - HVAC - AREA C

GENERAL NOTES

- 1. DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
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- FIRE CAULK AROUND ALL PENETRATIONS THROUGH FIRE RATED WALLS. 3. COORDINATE LOCATION OF DIFFUSERS, REGISTERS, AND GRILLES WITH
- SPRINKLERS, LIGHTS AND CEILING PLANS. 4. UNLESS OTHERWISE NOTED, ALL SUPPLY / RETURN AIR RUNOUTS SHALL MATCH RESPECTIVE NECK SIZE. ALL RUNOUTS SHALL HAVE VOLUME
- DAMPERS. INSTALL ALL VOLUME DAMPERS ABOVE ACCESSIBLE CEILINGS OR IN OTHER ACCESSIBLE LOCATIONS. 5. CONTRACTOR SHALL COORDINATE ALL DUCT ROUTING WITH ALL OTHER TRADES. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION AND AVOID
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- 8. SEE DUCT FITTINGS DETAIL 5, SHEET M3.11.
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- 10. S REPRESENTS A TEMPERATURE SENSOR WITHOUT ADJUSTMENTS © REPRESENTS A COMBINATION TEMPERATURE AND CO2 SENSOR T REPRESENTS A THERMOSTAT WITH ADJUSTMENTS (PROVIDE COMBINATION
- 11. ROUGH-INS FOR THERMOSTATS / TEMPERATURE SENSORS BY ELECTRICAL CONTRACTOR - SEE ELECTRICAL PLANS.
- 12. THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS ARE SHOWN FOR CLARITY. LOCATE TEMPERATURE SENSORS ADJACENT TO DOORS, ELECTRICAL DEVICES, AND OTHER BUILDING COMPONENTS. DO NOT LOCATE SENSORS IN MIDDLE OF WALLS OR BEHIND DOOR SWINGS.

TEMPERATURE / HUMIDITY SENSOR WHEN POSSIBLE)

- 13. ———— SOLID LINE INDICATES SHEET METAL DUCTWORK — · — — DASHED LINE INDICATES FABRIC DUCTWORK
- 14. SEE ARCHITECTURAL SPECIFICATION SECTION 01 5000 "TEMPORARY FACILITIES AND CONTROLS" FOR FILTRATION REQUIREMENTS DURING TEMPORARY USE OF HVAC SYSTEMS PRIOR TO BUILDING TURNOVER.

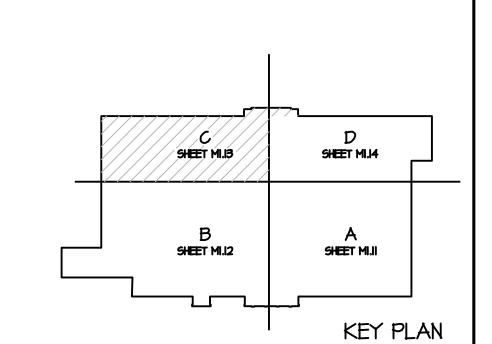
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- ROUTE R.A. DUCTWORK THROUGH GUN STORAGE CEILING STRUCTURE. TERMINATE DUCT APPROXIMATELY 2" BELOW BOTTOM OF STRUCTURE. PROVIDE 1/2" MESH TO PROTECT DUCT OPENING. COORDINATE EXACT LOCATION WITH STRUCTURE. SEE SHEET M1.23 FOR CONTINUATION. S.A. & R.A. MAINS UP, SEE SHEET M1.22 FOR CONTINUATION.
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- INSTALL DUCT HEATER PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN CODE REQUIRED CLEARANCE IN FRONT OF CONTROL PANEL. SEE DETAIL 2, SHEET M3.12.
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- 10 LOCATE SENSOR ON COLUMN SEE COLUMN DETAILS ON SHEET A7.05 FOR LOCATION / ELEVATION REQUIREMENTS.
- 16/10 E.A. WITH 14" x 14" SCREENED OPENING ON TOP. LOCATE DUCTWORK AS HIGH AS POSSIBLE IN ARCHERY RANGE 124 - BOTTOM OF DUCT AT APPROXIMATELY 9'-7" A.F.F. BALANCE TO 650 CFM.
- 12 PROVIDE HEAVY DUTY, LOCKABLE PLASTIC THERMOSTAT COVER.
- 13 LOCATE TRANSFER GRILLE IN JOIST SPACE AS HIGH AS POSSIBLE.
- 14 ROUTE E.A. DUCTWORK INTO ELECTRICAL ROOM. TERMINATE DUCT APPROXIMATELY 2" BELOW CEILING. PROVIDE 1/2" MESH TO PROTECT
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 - LOCATE DIFFUSER IN CENTER OF OPEN TRELLIS SPACE. COORDINATE
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- INSTALL LOUVER IN CANOPY CEILING. CENTER IN COFFER SPACE.
- 22 SUPPORT FCU-1 FROM STRUCTURAL STEEL, SEE DETAIL 10, M3.12. MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES. COORDINATE INSTALLATION WITH AQUARIUM CONTRACTOR. 23 ROUTE REFRIGERANT PIPING TO FCU-1 AND WATER FEATURE EVAPORATOR UNITS. FIELD VERIFY LOCATION OF WATER FEATURE EVAPORATOR UNITS. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY REFRIGERANT
- SPECIALTIES AS RECOMMENDED BY THE MANUFACTURER. PROVIDE TRANSFER GRILLE IN MOUNTAIN SHELL TO ALLOW AIR TRANSFER FROM THE SALES FLOOR INTO EQUIPMENT ROOM 129A. COORDINATE WITH MOUNTAIN CONTRACTOR TO LOCATE GRILLE IN LOCATION NOT EXPOSED TO CUSTOMER VIEW. TRANSFER GRILLE SHALL ACCOMMODATE 1,000 CFM.

SEISMIC DESIGN REQ'TS

1. SEE SHEET M1.14 FOR COMPLETE NOTES.





ela's



Revisions: Permit Issue

Rev 4, CCD 2

Drawing Name: PARTIAL FIRST FLOOR PLAN -HVAC - AREA C

Date: 06 February 2014

ASCE 7-10, 13.1.3 - COMPONENT IMPORTANCE FACTOR: ALL COMPONENTS

SEISMIC DESIGN REQUIREMENTS

ASCE 7-10, 13.1.4 - EXEMPTIONS: THE FOLLOWING NONSTRUCTURAL

- 1. DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
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STRUCTURE. SEE SHEET M1.23 FOR CONTINUATION.

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 - ELECTRIC UNIT HEATER, LOCATION SHOWN FOR CLARITY SEE ELECTRICAL PLANS FOR EQUIPMENT SPECIFICATIONS AND EXACT LOCATION.
- GAS FIREPLACE FLUE AND ROOF TERMINATION MATERIAL FURNISHED WITH FIREPLACE - SEE ARCHITECTURAL PLANS AND SPECIFICATIONS. FLUE AND ROOF TERMINATION INSTALLED BY MECHANICAL CONTRACTOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS, APPLICABLE CODE REQUIREMENTS, AND AUTHORITY HAVING JURISDICTION.
- ROUTE FABRIC DUCTWORK IN JOIST SPACE. COORDINATE EXACT LOCATION WITH STRUCTURE. FABRIC DUCT AIR DISTRIBUTION SHALL BE DESIGNED BY DUCT MANUFACTURER (DUCT SOX). CENTER LINE OF DUCT LOCATED APPROXIMATELY 10'-9" ABOVE FINISHED FLOOR. EVENLY DISTRIBUTE AIRFLOW TO OCCUPIED SPACES ON BOTH SIDES OF DUCTWORK. GENERAL DUCT CONFIGURATION SHALL MATCH CONFIGURATION INDICATED ON PLAN. INSTALL FABRIC DUCT SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY SUPPORTS, FITTINGS, AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM. SEE DETAILS 8 AND 9, SHEET M3.12.
- INSTALL DUCT HEATER PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN CODE REQUIRED CLEARANCE IN FRONT OF CONTROL PANEL. SEE DETAIL 2, SHEET M3.12.
- 9 CENTER EXHAUST GRILLE IN COFFER SPACE. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR DIMENSIONS.
- 10 LOCATE SENSOR ON COLUMN SEE COLUMN DETAILS ON SHEET A7.05 FOR LOCATION / ELEVATION REQUIREMENTS.
- 16/10 E.A. WITH 14" x 14" SCREENED OPENING ON TOP. LOCATE DUCTWORK AS HIGH AS POSSIBLE IN ARCHERY RANGE 124 - BOTTOM OF
- PROVIDE HEAVY DUTY, LOCKABLE PLASTIC THERMOSTAT COVER.

DUCT AT APPROXIMATELY 9'-7" A.F.F. BALANCE TO 650 CFM.

- LOCATE TRANSFER GRILLE IN JOIST SPACE AS HIGH AS POSSIBLE.
- 14 ROUTE E.A. DUCTWORK INTO ELECTRICAL ROOM. TERMINATE DUCT APPROXIMATELY 2" BELOW CEILING. PROVIDE 1/2" MESH TO PROTECT DUCT OPENING. PROVIDE FIRE DAMPER AT FLOOR PENETRATION.
- 15 TRANSITION DUCT UP INTO JOIST SPACE. ROUTE AS HIGH AS POSSIBLE. TRANSITION DUCT UP INTO JOIST SPACE TO ACCOMMODATE DUCT
- 18 ROUTE DUCT THROUGH EXTERIOR WALL INTO ATTIC SPACE ABOVE EXIT VESTIBULE. TRANSITION DOWN INTO CEILING SPACE ABOVE VESTIBULE.

WITH GENERAL CONTRACTOR.

19 PROVIDE INSULATED MOUNTING PLATE AND HEAVY DUTY, LOCKABLE PLASTIC THERMOSTAT COVER.

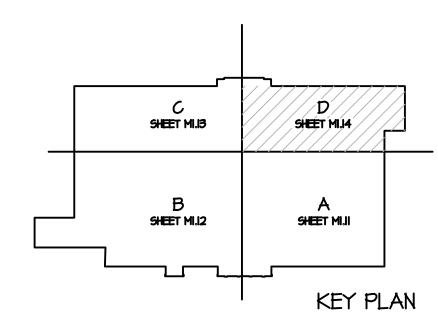
INSTALL LOUVER IN CANOPY CEILING. CENTER IN COFFER SPACE.

- 20 SUPPORT INLINE EXHAUST FANS FROM STRUCTURAL STEEL, SEE DETAIL 11, M3.11. MAINTAIN ALL MANUFACTURER'S RECOMMENDED
- SUPPORT FCU-1 FROM STRUCTURAL STEEL, SEE DETAIL 10, M3.12.
- MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES. COORDINATE INSTALLATION WITH AQUARIUM CONTRACTOR. ROUTE REFRIGERANT PIPING TO FCU-1 AND WATER FEATURE EVAPORATOR UNITS. FIELD VERIFY LOCATION OF WATER FEATURE EVAPORATOR UNITS. SIZE REFRIGERANT PIPING PER MANUFACTURER'S

RECOMMENDATIONS. PROVIDE ALL NECESSARY REFRIGERANT

SPECIALTIES AS RECOMMENDED BY THE MANUFACTURER. PROVIDE TRANSFER GRILLE IN MOUNTAIN SHELL TO ALLOW AIR TRANSFER FROM THE SALES FLOOR INTO EQUIPMENT ROOM 129A. COORDINATE WITH MOUNTAIN CONTRACTOR TO LOCATE GRILLE IN LOCATION NOT EXPOSED TO CUSTOMER VIEW. TRANSFER GRILLE SHALL ACCOMMODATE 1,000 CFM.

1. SEE SHEET M1.14 FOR COMPLETE NOTES



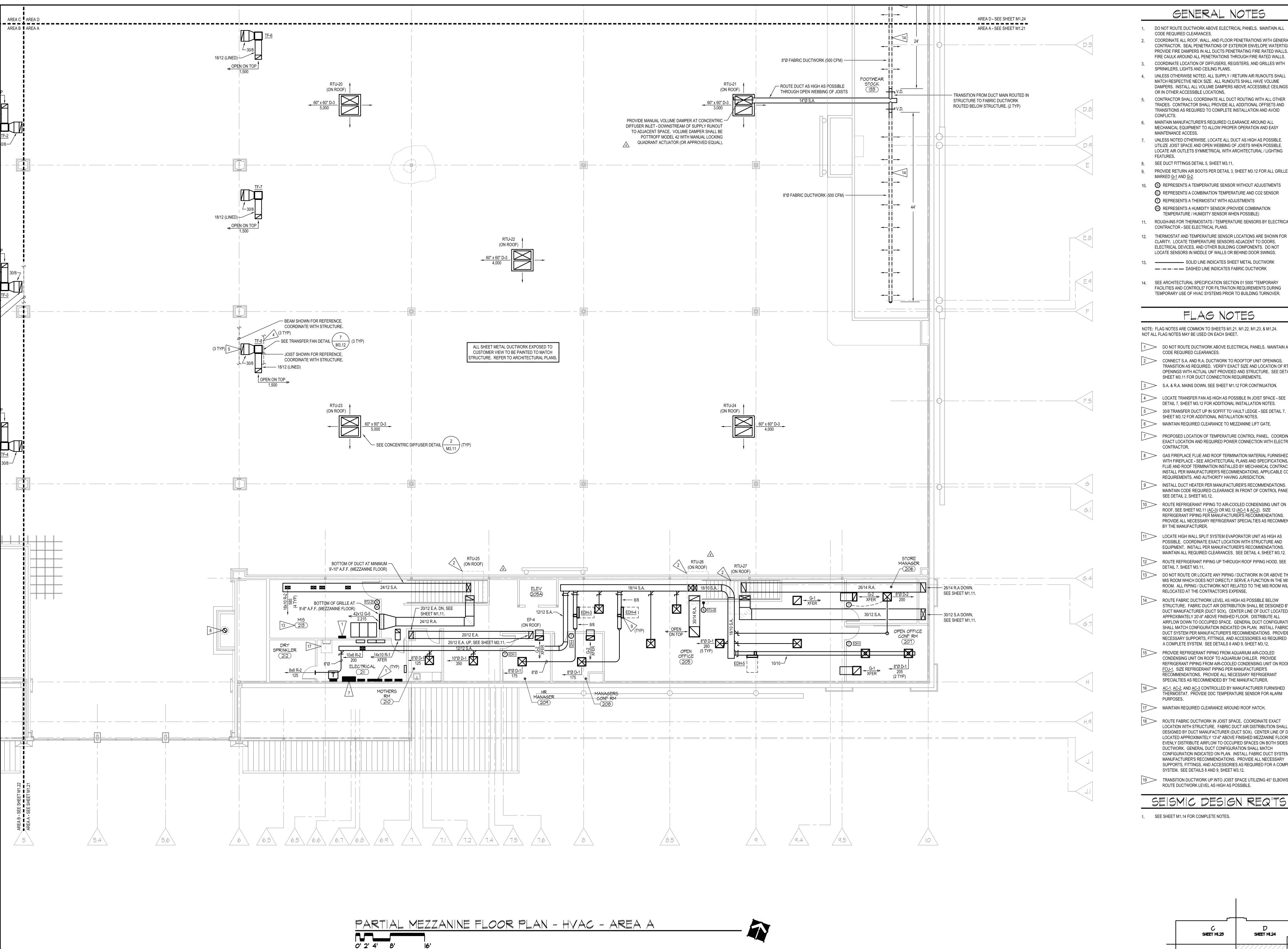
Permit Issue

Rev 4, CCD 2

Drawing Name:

PARTIAL FIRST FLOOR PLAN -HVAC - AREA D

Date: 06 February 2014



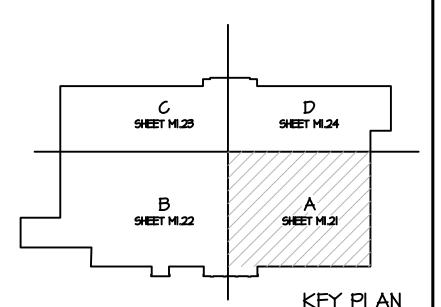
- 1. DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- COORDINATE ALL ROOF, WALL, AND FLOOR PENETRATIONS WITH GENERAL CONTRACTOR. SEAL PENETRATIONS OF EXTERIOR ENVELOPE WATERTIGHT. PROVIDE FIRE DAMPERS IN ALL DUCTS PENETRATING FIRE RATED WALLS.
- FIRE CAULK AROUND ALL PENETRATIONS THROUGH FIRE RATED WALLS. COORDINATE LOCATION OF DIFFUSERS, REGISTERS, AND GRILLES WITH
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- TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION AND AVOID MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AROUND ALL MECHANICAL EQUIPMENT TO ALLOW PROPER OPERATION AND EASY
- 7. UNLESS NOTED OTHERWISE, LOCATE ALL DUCT AS HIGH AS POSSIBLE. UTILIZE JOIST SPACE AND OPEN WEBBING OF JOISTS WHEN POSSIBLE. LOCATE AIR OUTLETS SYMMETRICAL WITH ARCHITECTURAL / LIGHTING
- 9. PROVIDE RETURN AIR BOOTS PER DETAIL 3, SHEET M3.12 FOR ALL GRILLES
- 10. S REPRESENTS A TEMPERATURE SENSOR WITHOUT ADJUSTMENTS © REPRESENTS A COMBINATION TEMPERATURE AND CO2 SENSOR TREPRESENTS A THERMOSTAT WITH ADJUSTMENTS H REPRESENTS A HUMIDITY SENSOR (PROVIDE COMBINATION
- TEMPERATURE / HUMIDITY SENSOR WHEN POSSIBLE) 11. ROUGH-INS FOR THERMOSTATS / TEMPERATURE SENSORS BY ELECTRICAL CONTRACTOR - SEE ELECTRICAL PLANS.
- THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS ARE SHOWN FOR CLARITY. LOCATE TEMPERATURE SENSORS ADJACENT TO DOORS, ELECTRICAL DEVICES, AND OTHER BUILDING COMPONENTS. DO NOT LOCATE SENSORS IN MIDDLE OF WALLS OR BEHIND DOOR SWINGS.
- 13. SOLID LINE INDICATES SHEET METAL DUCTWORK — · — · — DASHED LINE INDICATES FABRIC DUCTWORK
- 14. SEE ARCHITECTURAL SPECIFICATION SECTION 01 5000 "TEMPORARY FACILITIES AND CONTROLS" FOR FILTRATION REQUIREMENTS DURING TEMPORARY USE OF HVAC SYSTEMS PRIOR TO BUILDING TURNOVER.

FLAG NOTES

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- DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- 2 CONNECT S.A. AND R.A. DUCTWORK TO ROOFTOP UNIT OPENINGS. TRANSITION AS REQUIRED. VERIFY EXACT SIZE AND LOCATION OF RTU OPENINGS WITH ACTUAL UNIT PROVIDED AND STRUCTURE. SEE DETAIL 1, SHEET M3.11 FOR DUCT CONNECTION REQUIREMENTS.
- 3 S.A. & R.A. MAINS DOWN, SEE SHEET M1.12 FOR CONTINUATION.
- > LOCATE TRANSFER FAN AS HIGH AS POSSIBLE IN JOIST SPACE SEE DETAIL 7, SHEET M3.12 FOR ADDITIONAL INSTALLATION NOTES.
- 30/8 TRANSFER DUCT UP IN SOFFIT TO VAULT LEDGE SEE DETAIL 7, SHEET M3.12 FOR ADDITIONAL INSTALLATION NOTES.
- 6 MAINTAIN REQUIRED CLEARANCE TO MEZZANINE LIFT GATE.
- 7 PROPOSED LOCATION OF TEMPERATURE CONTROL PANEL. COORDINATE
- EXACT LOCATION AND REQUIRED POWER CONNECTION WITH ELECTRICAL CONTRACTOR. 8 GAS FIREPLACE FLUE AND ROOF TERMINATION MATERIAL FURNISHED
- WITH FIREPLACE SEE ARCHITECTURAL PLANS AND SPECIFICATIONS. FLUE AND ROOF TERMINATION INSTALLED BY MECHANICAL CONTRACTOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS, APPLICABLE CODE REQUIREMENTS, AND AUTHORITY HAVING JURISDICTION.
- MAINTAIN CODE REQUIRED CLEARANCE IN FRONT OF CONTROL PANEL. SEE DETAIL 2, SHEET M3.12. 10 ROUTE REFRIGERANT PIPING TO AIR-COOLED CONDENSING UNIT ON ROOF, SEE SHEET M2.11 (AC-3) OR M2.12 (AC-1 & AC-2). SIZE
- REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY REFRIGERANT SPECIALTIES AS RECOMMENDED BY THE MANUFACTURER.
- 11 LOCATE HIGH WALL SPLIT SYSTEM EVAPORATOR UNIT AS HIGH AS POSSIBLE. COORDINATE EXACT LOCATION WITH STRUCTURE AND EQUIPMENT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN ALL REQUIRED CLEARANCES. SEE DETAIL 4, SHEET M3.12.
- 12 ROUTE REFRIGERANT PIPING UP THROUGH ROOF PIPING HOOD, SEE DETAIL 7, SHEET M3.11.
- DO NOT ROUTE OR LOCATE ANY PIPING / DUCTWORK IN OR ABOVE THE MIS ROOM WHICH DOES NOT DIRECTLY SERVE A FUNCTION IN THE MIS ROOM. ALL PIPING / DUCTWORK NOT RELATED TO THE MIS ROOM WILL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
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- 15 PROVIDE REFRIGERANT PIPING FROM AQUARIUM AIR-COOLED CONDENSING UNIT ON ROOF TO AQUARIUM CHILLER. PROVIDE REFRIGERANT PIPING FROM AIR-COOLED CONDENSING UNIT ON ROOF TO FCU-1. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY REFRIGERANT
- SPECIALTIES AS RECOMMENDED BY THE MANUFACTURER. 16 <u>AC-1, AC-2, AND AC-3</u> CONTROLLED BY MANUFACTURER FURNISHED THERMOSTAT. PROVIDE DDC TEMPERATURE SENSOR FOR ALARM
- 17 MAINTAIN REQUIRED CLEARANCE AROUND ROOF HATCH.
- 18 ROUTE FABRIC DUCTWORK IN JOIST SPACE. COORDINATE EXACT LOCATION WITH STRUCTURE. FABRIC DUCT AIR DISTRIBUTION SHALL BE DESIGNED BY DUCT MANUFACTURER (DUCT SOX). CENTER LINE OF DUCT LOCATED APPROXIMATELY 13'-6" ABOVE FINISHED MEZZANINE FLOOR. EVENLY DISTRIBUTE AIRFLOW TO OCCUPIED SPACES ON BOTH SIDES OF DUCTWORK. GENERAL DUCT CONFIGURATION SHALL MATCH CONFIGURATION INDICATED ON PLAN. INSTALL FABRIC DUCT SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY SUPPORTS, FITTINGS, AND ACCESSORIES AS REQUIRED FOR A COMPLETE
- 19 TRANSITION DUCTWORK UP INTO JOIST SPACE UTILIZING 45° ELBOWS. ROUTE DUCTWORK LEVEL AS HIGH AS POSSIBLE.

1. SEE SHEET M1.14 FOR COMPLETE NOTES.



Drawing Name: PARTIAL MEZZANINE FLOOR PLAN -HVAC - AREA A

Date: 06 February 2014

Sheet Number:

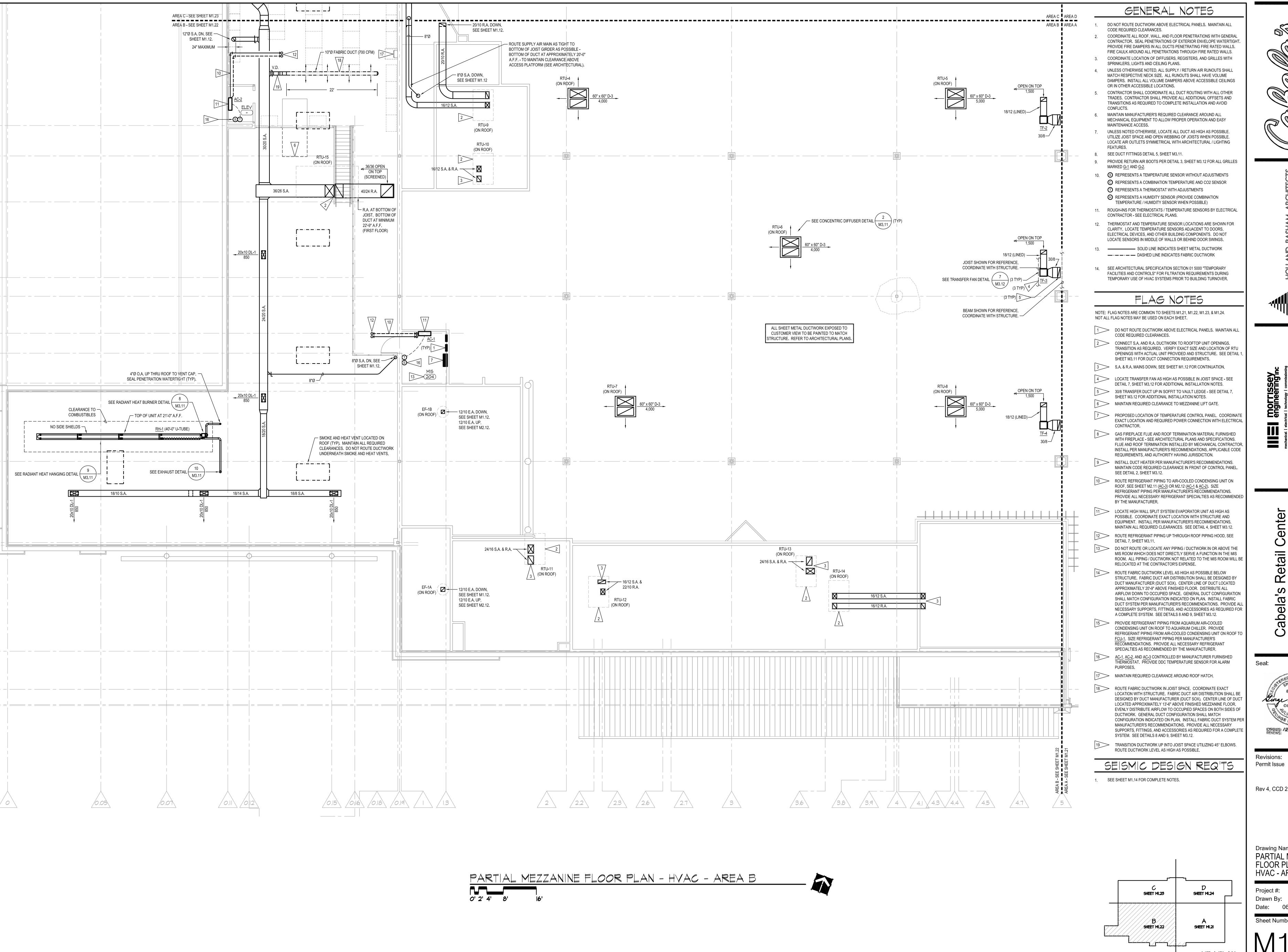
etail ela's



Permit Issue

Rev 4, CCD 2

Drawn By:



Retail bela's



Rev 4, CCD 2

Drawing Name: PARTIAL MEZZANINE FLOOR PLAN -

HVAC - AREA B

Date: 06 February 2014

PARTIAL MEZZANINE FLOOR PLAN - HVAC - AREA C

0' 2' 4' 8'

GENERAL NOTES

- 1. DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS. MAINTAIN ALL
- CODE REQUIRED CLEARANCES. 2. COORDINATE ALL ROOF, WALL, AND FLOOR PENETRATIONS WITH GENERAL CONTRACTOR. SEAL PENETRATIONS OF EXTERIOR ENVELOPE WATERTIGHT.
- PROVIDE FIRE DAMPERS IN ALL DUCTS PENETRATING FIRE RATED WALLS. FIRE CAULK AROUND ALL PENETRATIONS THROUGH FIRE RATED WALLS. 3. COORDINATE LOCATION OF DIFFUSERS, REGISTERS, AND GRILLES WITH SPRINKLERS, LIGHTS AND CEILING PLANS. 4. UNLESS OTHERWISE NOTED, ALL SUPPLY / RETURN AIR RUNOUTS SHALL
 - MATCH RESPECTIVE NECK SIZE. ALL RUNOUTS SHALL HAVE VOLUME DAMPERS. INSTALL ALL VOLUME DAMPERS ABOVE ACCESSIBLE CEILINGS OR IN OTHER ACCESSIBLE LOCATIONS.
- 5. CONTRACTOR SHALL COORDINATE ALL DUCT ROUTING WITH ALL OTHER TRADES. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION AND AVOID CONFLICTS.
- MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AROUND ALL MECHANICAL EQUIPMENT TO ALLOW PROPER OPERATION AND EASY MAINTENANCE ACCESS.
- 7. UNLESS NOTED OTHERWISE, LOCATE ALL DUCT AS HIGH AS POSSIBLE. UTILIZE JOIST SPACE AND OPEN WEBBING OF JOISTS WHEN POSSIBLE. LOCATE AIR OUTLETS SYMMETRICAL WITH ARCHITECTURAL / LIGHTING FEATURES.
- 8. SEE DUCT FITTINGS DETAIL 5, SHEET M3.11. PROVIDE RETURN AIR BOOTS PER DETAIL 3, SHEET M3.12 FOR ALL GRILLES
- MARKED <u>G-1</u> AND <u>G-2</u>. 10. S REPRESENTS A TEMPERATURE SENSOR WITHOUT ADJUSTMENTS © REPRESENTS A COMBINATION TEMPERATURE AND CO2 SENSOR T REPRESENTS A THERMOSTAT WITH ADJUSTMENTS (H) REPRESENTS A HUMIDITY SENSOR (PROVIDE COMBINATION
- TEMPERATURE / HUMIDITY SENSOR WHEN POSSIBLE) 11. ROUGH-INS FOR THERMOSTATS / TEMPERATURE SENSORS BY ELECTRICAL CONTRACTOR - SEE ELECTRICAL PLANS.
- 12. THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS ARE SHOWN FOR CLARITY. LOCATE TEMPERATURE SENSORS ADJACENT TO DOORS, ELECTRICAL DEVICES, AND OTHER BUILDING COMPONENTS. DO NOT

LOCATE SENSORS IN MIDDLE OF WALLS OR BEHIND DOOR SWINGS.

- ————— SOLID LINE INDICATES SHEET METAL DUCTWORK — · — · — DASHED LINE INDICATES FABRIC DUCTWORK
- 14. SEE ARCHITECTURAL SPECIFICATION SECTION 01 5000 "TEMPORARY FACILITIES AND CONTROLS" FOR FILTRATION REQUIREMENTS DURING TEMPORARY USE OF HVAC SYSTEMS PRIOR TO BUILDING TURNOVER.

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- 3 S.A. & R.A. MAINS DOWN, SEE SHEET M1.12 FOR CONTINUATION.
- > LOCATE TRANSFER FAN AS HIGH AS POSSIBLE IN JOIST SPACE SEE DETAIL 7, SHEET M3.12 FOR ADDITIONAL INSTALLATION NOTES.
- 30/8 TRANSFER DUCT UP IN SOFFIT TO VAULT LEDGE SEE DETAIL 7, SHEET M3.12 FOR ADDITIONAL INSTALLATION NOTES.
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- EXACT LOCATION AND REQUIRED POWER CONNECTION WITH ELECTRICAL GAS FIREPLACE FLUE AND ROOF TERMINATION MATERIAL FURNISHED WITH FIREPLACE - SEE ARCHITECTURAL PLANS AND SPECIFICATIONS. FLUE AND ROOF TERMINATION INSTALLED BY MECHANICAL CONTRACTOR.

INSTALL PER MANUFACTURER'S RECOMMENDATIONS, APPLICABLE CODE

- REQUIREMENTS, AND AUTHORITY HAVING JURISDICTION. 9 INSTALL DUCT HEATER PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN CODE REQUIRED CLEARANCE IN FRONT OF CONTROL PANEL. SEE DETAIL 2, SHEET M3.12.
- 10 ROUTE REFRIGERANT PIPING TO AIR-COOLED CONDENSING UNIT ON ROOF, SEE SHEET M2.11 (AC-3) OR M2.12 (AC-1 & AC-2). SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY REFRIGERANT SPECIALTIES AS RECOMMENDED BY THE MANUFACTURER.
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- 14 ROUTE FABRIC DUCTWORK LEVEL AS HIGH AS POSSIBLE BELOW STRUCTURE. FABRIC DUCT AIR DISTRIBUTION SHALL BE DESIGNED BY DUCT MANUFACTURER (DUCT SOX). CENTER LINE OF DUCT LOCATED APPROXIMATELY 20'-9" ABOVE FINISHED FLOOR. DISTRIBUTE ALL AIRFLOW DOWN TO OCCUPIED SPACE. GENERAL DUCT CONFIGURATION SHALL MATCH CONFIGURATION INDICATED ON PLAN. INSTALL FABRIC DUCT SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE AL NECESSARY SUPPORTS, FITTINGS, AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM. SEE DETAILS 8 AND 9, SHEET M3.12.
- 15 PROVIDE REFRIGERANT PIPING FROM AQUARIUM AIR-COOLED CONDENSING UNIT ON ROOF TO AQUARIUM CHILLER. PROVIDE REFRIGERANT PIPING FROM AIR-COOLED CONDENSING UNIT ON ROOF TO FCU-1. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY REFRIGERANT SPECIALTIES AS RECOMMENDED BY THE MANUFACTURER.
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1. SEE SHEET M1.14 FOR COMPLETE NOTES.

SHEET MI.23 SHEET MI.22



Retail ela's

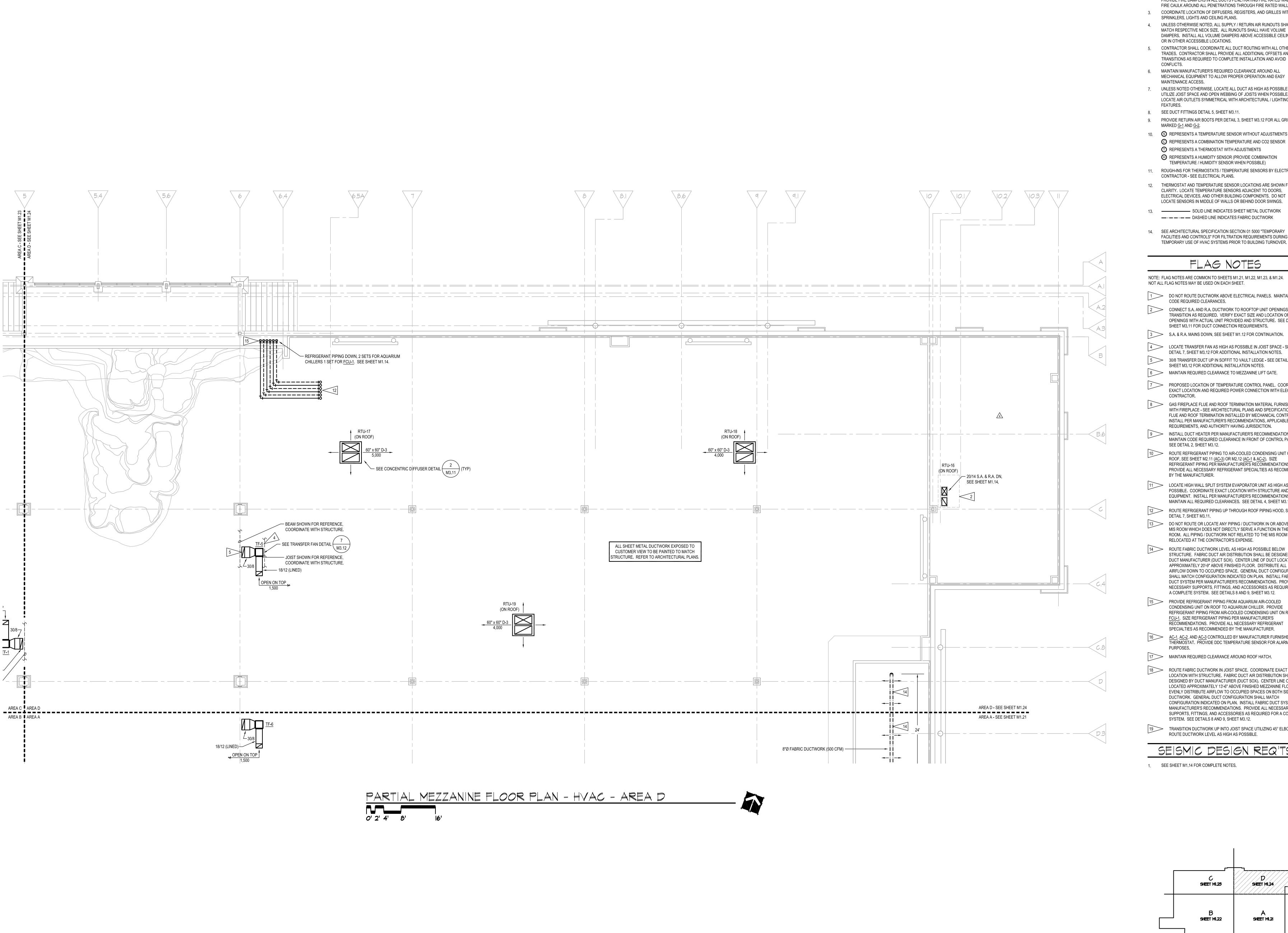


Revisions: Permit Issue

Rev 4, CCD 2

Drawing Name: PARTIAL MEZZANINE FLOOR PLAN -HVAC - AREA C

Drawn By: Date: 06 February 2014



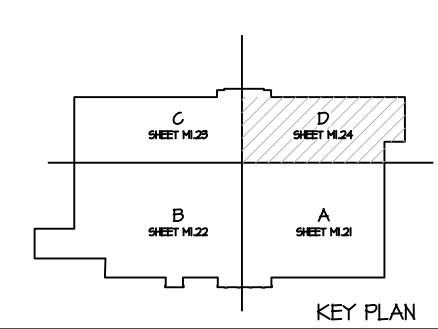
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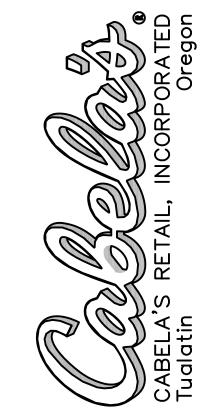
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- 13 DO NOT ROUTE OR LOCATE ANY PIPING / DUCTWORK IN OR ABOVE THE MIS ROOM WHICH DOES NOT DIRECTLY SERVE A FUNCTION IN THE MIS ROOM. ALL PIPING / DUCTWORK NOT RELATED TO THE MIS ROOM WILL BE
- 14 ROUTE FABRIC DUCTWORK LEVEL AS HIGH AS POSSIBLE BELOW STRUCTURE. FABRIC DUCT AIR DISTRIBUTION SHALL BE DESIGNED BY DUCT MANUFACTURER (DUCT SOX). CENTER LINE OF DUCT LOCATED APPROXIMATELY 20'-9" ABOVE FINISHED FLOOR. DISTRIBUTE ALL AIRFLOW DOWN TO OCCUPIED SPACE. GENERAL DUCT CONFIGURATION SHALL MATCH CONFIGURATION INDICATED ON PLAN. INSTALL FABRIC DUCT SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY SUPPORTS, FITTINGS, AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM. SEE DETAILS 8 AND 9, SHEET M3.12.
- PROVIDE REFRIGERANT PIPING FROM AQUARIUM AIR-COOLED CONDENSING UNIT ON ROOF TO AQUARIUM CHILLER. PROVIDE REFRIGERANT PIPING FROM AIR-COOLED CONDENSING UNIT ON ROOF TO FCU-1. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY REFRIGERANT
- SPECIALTIES AS RECOMMENDED BY THE MANUFACTURER. AC-1, AC-2, AND AC-3 CONTROLLED BY MANUFACTURER FURNISHED THERMOSTAT. PROVIDE DDC TEMPERATURE SENSOR FOR ALARM
- MAINTAIN REQUIRED CLEARANCE AROUND ROOF HATCH.
- ROUTE FABRIC DUCTWORK IN JOIST SPACE. COORDINATE EXACT LOCATION WITH STRUCTURE. FABRIC DUCT AIR DISTRIBUTION SHALL BE DESIGNED BY DUCT MANUFACTURER (DUCT SOX). CENTER LINE OF DUCT LOCATED APPROXIMATELY 13'-6" ABOVE FINISHED MEZZANINE FLOOR. EVENLY DISTRIBUTE AIRFLOW TO OCCUPIED SPACES ON BOTH SIDES OF DUCTWORK. GENERAL DUCT CONFIGURATION SHALL MATCH CONFIGURATION INDICATED ON PLAN. INSTALL FABRIC DUCT SYSTEM PE MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY SUPPORTS, FITTINGS, AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM. SEE DETAILS 8 AND 9, SHEET M3.12.
- 19 TRANSITION DUCTWORK UP INTO JOIST SPACE UTILIZING 45° ELBOWS. ROUTE DUCTWORK LEVEL AS HIGH AS POSSIBLE.

1. SEE SHEET M1.14 FOR COMPLETE NOTES.





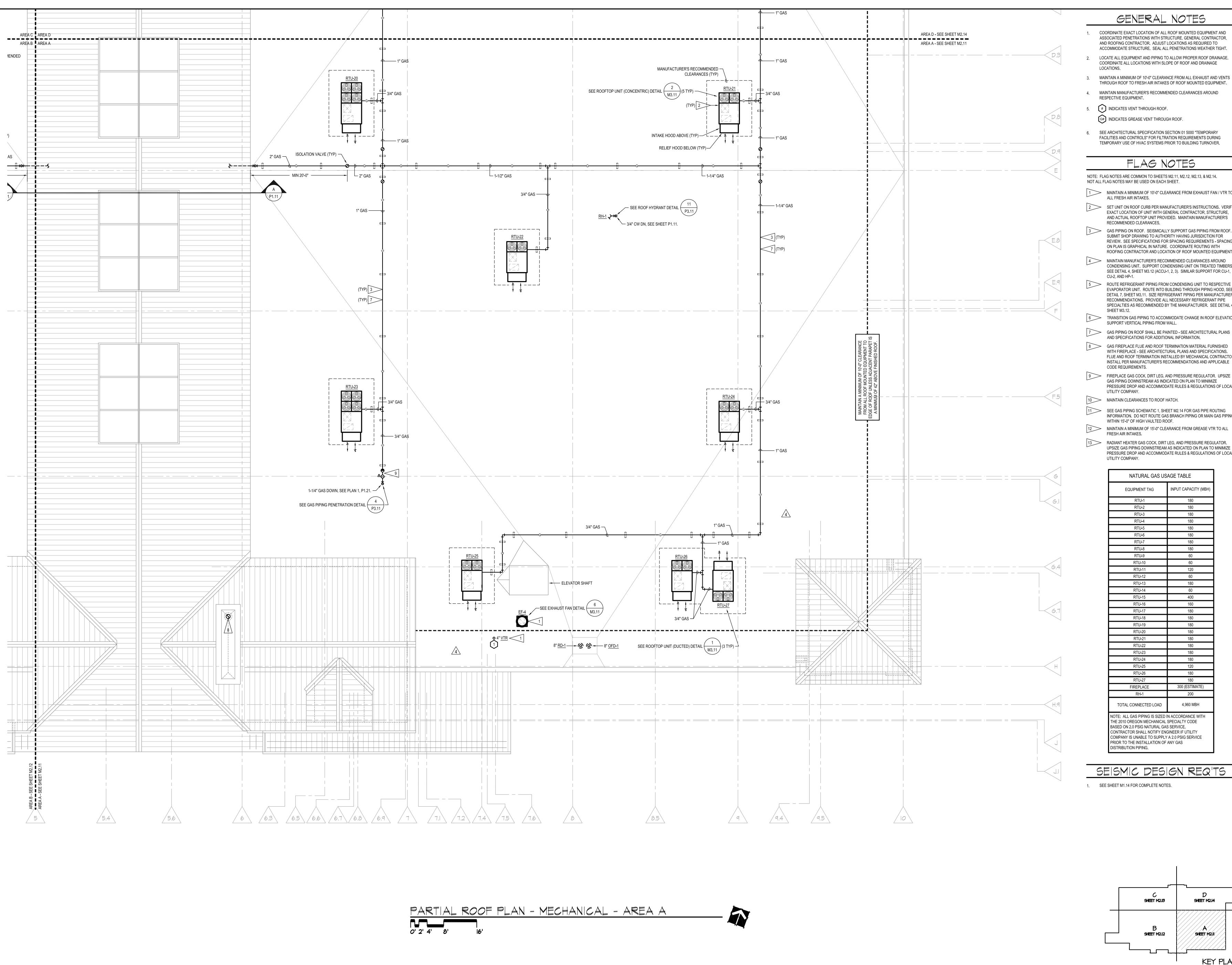
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Permit Issue

Rev 4, CCD 2

Drawing Name: PARTIAL MEZZANINE FLOOR PLAN -HVAC - AREA D

Date: 06 February 2014



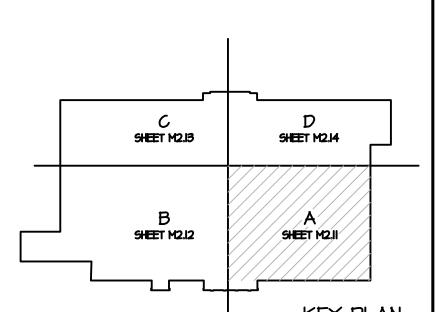
- COORDINATE EXACT LOCATION OF ALL ROOF MOUNTED EQUIPMENT AND ASSOCIATED PENETRATIONS WITH STRUCTURE, GENERAL CONTRACTOR, AND ROOFING CONTRACTOR. ADJUST LOCATIONS AS REQUIRED TO ACCOMMODATE STRUCTURE. SEAL ALL PENETRATIONS WEATHER TIGHT.
- LOCATE ALL EQUIPMENT AND PIPING TO ALLOW PROPER ROOF DRAINAGE. COORDINATE ALL LOCATIONS WITH SLOPE OF ROOF AND DRAINAGE

 - THROUGH ROOF TO FRESH AIR INTAKES OF ROOF MOUNTED EQUIPMENT.
- 4. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AROUND
- 5. # INDICATES VENT THROUGH ROOF.
- SEE ARCHITECTURAL SPECIFICATION SECTION 01 5000 "TEMPORARY FACILITIES AND CONTROLS" FOR FILTRATION REQUIREMENTS DURING TEMPORARY USE OF HVAC SYSTEMS PRIOR TO BUILDING TURNOVER.

NOT ALL FLAG NOTES MAY BE USED ON EACH SHEET.

- 1 MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM EXHAUST FAN / VTR TO
- 2 SET UNIT ON ROOF CURB PER MANUFACTURER'S INSTRUCTIONS. VERIFY
- AND ACTUAL ROOFTOP UNIT PROVIDED. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. GAS PIPING ON ROOF. SEISMICALLY SUPPORT GAS PIPING FROM ROOF.
- SUBMIT SHOP DRAWING TO AUTHORITY HAVING JURISDICTION FOR REVIEW. SEE SPECIFICATIONS FOR SPACING REQUIREMENTS - SPACING ON PLAN IS GRAPHICAL IN NATURE. COORDINATE ROUTING WITH ROOFING CONTRACTOR AND LOCATION OF ROOF MOUNTED EQUIPMENT.
- 4 MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AROUND CONDENSING UNIT. SUPPORT CONDENSING UNIT ON TREATED TIMBERS. SEE DETAIL 4, SHEET M3.12 (ACCU-1, 2, 3). SIMILAR SUPPORT FOR CU-1,
- 5 ROUTE REFRIGERANT PIPING FROM CONDENSING UNIT TO RESPECTIVE EVAPORATOR UNIT. ROUTE INTO BUILDING THROUGH PIPING HOOD, SEE DETAIL 7, SHEET M3.11. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY REFRIGERANT PIPE SPECIALTIES AS RECOMMENDED BY THE MANUFACTURER. SEE DETAIL 4,
- TRANSITION GAS PIPING TO ACCOMMODATE CHANGE IN ROOF ELEVATION. SUPPORT VERTICAL PIPING FROM WALL.
- 7 GAS PIPING ON ROOF SHALL BE PAINTED SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- WITH FIREPLACE SEE ARCHITECTURAL PLANS AND SPECIFICATIONS. FLUE AND ROOF TERMINATION INSTALLED BY MECHANICAL CONTRACTOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE
- 9 FIREPLACE GAS COCK, DIRT LEG, AND PRESSURE REGULATOR. UPSIZE GAS PIPING DOWNSTREAM AS INDICATED ON PLAN TO MINIMIZE PRESSURE DROP AND ACCOMMODATE RULES & REGULATIONS OF LOCAL
- 10 MAINTAIN CLEARANCES TO ROOF HATCH.
- SEE GAS PIPING SCHEMATIC 1, SHEET M2.14 FOR GAS PIPE ROUTING INFORMATION. DO NOT ROUTE GAS BRANCH PIPING OR MAIN GAS PIPING
- WITHIN 15'-0" OF HIGH VAULTED ROOF. 12 MAINTAIN A MINIMUM OF 15'-0" CLEARANCE FROM GREASE VTR TO ALL
- 13 RADIANT HEATER GAS COCK, DIRT LEG, AND PRESSURE REGULATOR. UPSIZE GAS PIPING DOWNSTREAM AS INDICATED ON PLAN TO MINIMIZE PRESSURE DROP AND ACCOMMODATE RULES & REGULATIONS OF LOCAL

NATURAL GAS US	AGE TABLE
EQUIPMENT TAG	INPUT CAPACITY (ME
RTU-1	180
RTU-2	180
RTU-3	180
RTU-4	180
RTU-5	180
RTU-6	180
RTU-7	180
RTU-8	180
RTU-9	60
RTU-10	60
RTU-11	120
RTU-12	60
RTU-13	180
RTU-14	60
RTU-15	400
RTU-16	160
RTU-17	180
RTU-18	180
RTU-19	180
RTU-20	180
RTU-21	180
RTU-22	180
RTU-23	180
RTU-24	180
RTU-25	120
RTU-26	180
RTU-27	180
FIREPLACE	300 (ESTIMATE)
RH-1	200
TOTAL CONNECTED LOAD	4,960 MBH
NOTE: ALL GAS PIPING IS SIZED THE 2010 OREGON MECHANICAL BASED ON 2.0 PSIG NATURAL GA CONTRACTOR SHALL NOTIFY EN	SPECIALTY CODE S SERVICE.

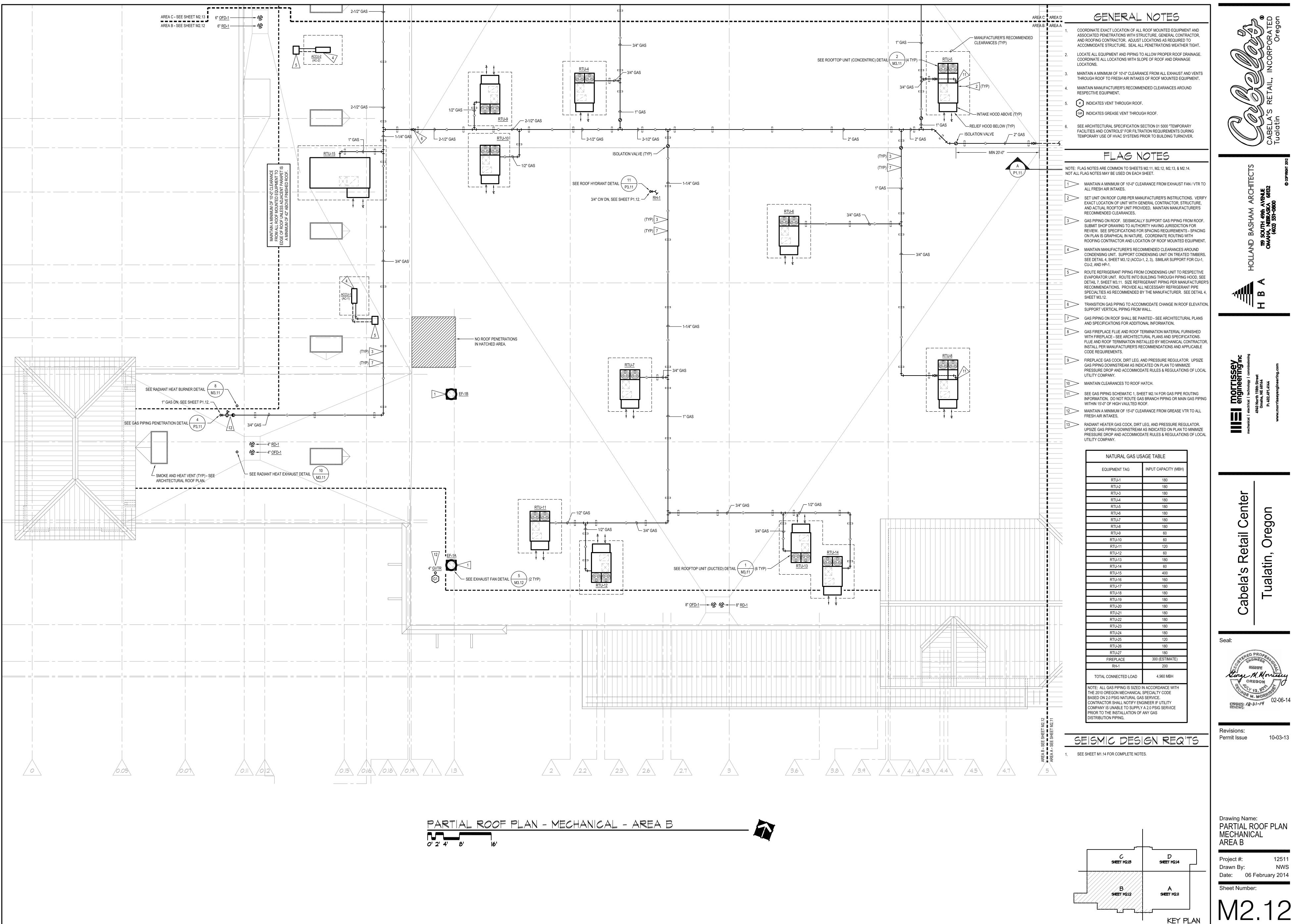




Rev 4, CCD 2

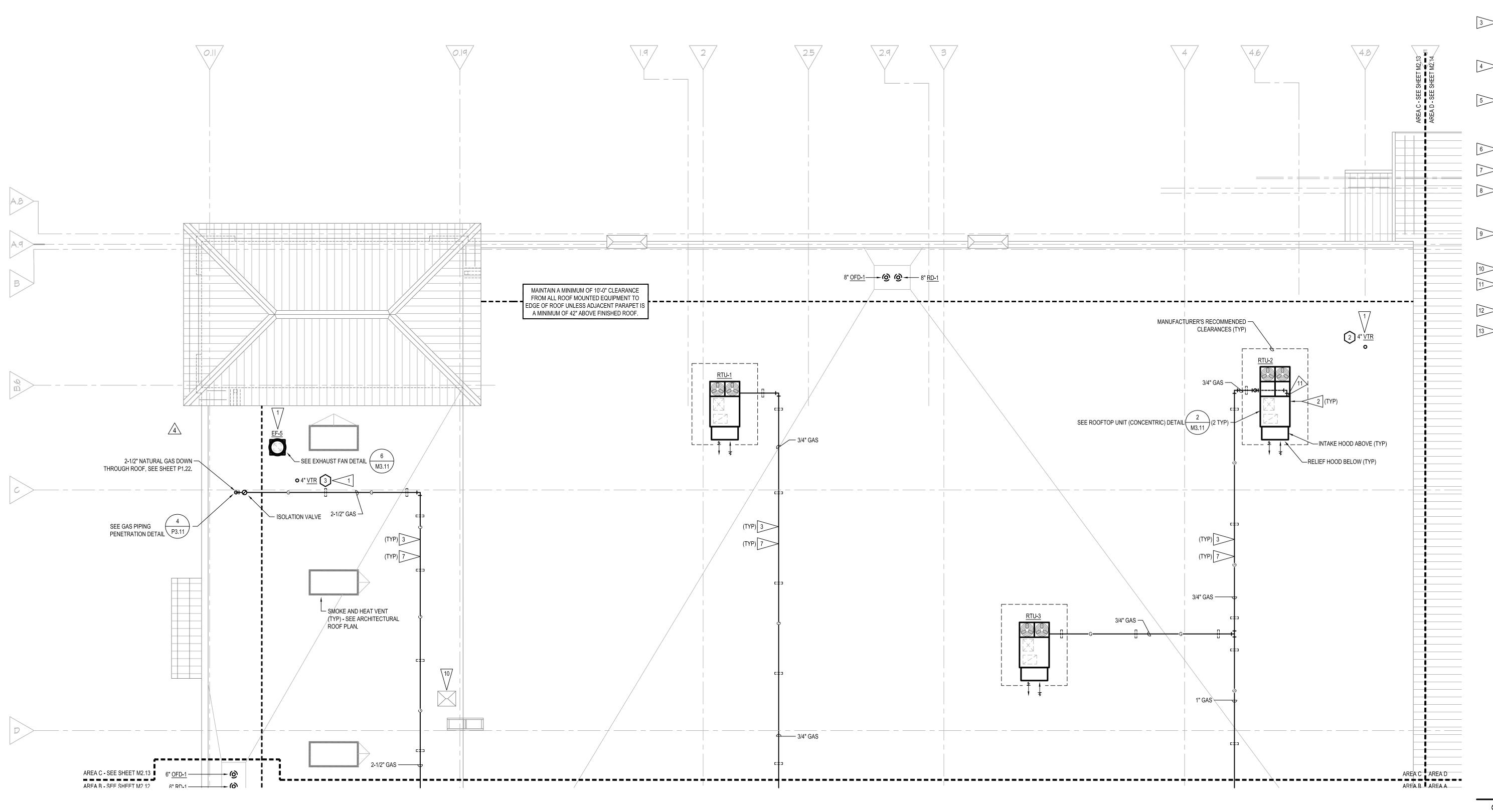
Drawing Name: PARTIAL ROOF PLAN MECHANICAL AREA A

Date: 06 February 2014





Drawing Name: PARTIAL ROOF PLAN MECHANICAL



PARTIAL ROOF PLAN - MECHANICAL - AREA C

0' 2' 4' 8'

GENERAL NOTES

- COORDINATE EXACT LOCATION OF ALL ROOF MOUNTED EQUIPMENT AND ASSOCIATED PENETRATIONS WITH STRUCTURE, GENERAL CONTRACTOR, AND ROOFING CONTRACTOR. ADJUST LOCATIONS AS REQUIRED TO ACCOMMODATE STRUCTURE. SEAL ALL PENETRATIONS WEATHER TIGHT.
- 2. LOCATE ALL EQUIPMENT AND PIPING TO ALLOW PROPER ROOF DRAINAGE. COORDINATE ALL LOCATIONS WITH SLOPE OF ROOF AND DRAINAGE LOCATIONS.
- LOCATIONS.

 3. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM ALL EXHAUST AND VENTS
- THROUGH ROOF TO FRESH AIR INTAKES OF ROOF MOUNTED EQUIPMENT.

 4. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AROUND
- RESPECTIVE EQUIPMENT.
- 5. # INDICATES VENT THROUGH ROOF.

 G# INDICATES GREASE VENT THROUGH ROOF.
- 6. SEE ARCHITECTURAL SPECIFICATION SECTION 01 5000 "TEMPORARY FACILITIES AND CONTROLS" FOR FILTRATION REQUIREMENTS DURING

FLAG NOTES

TEMPORARY USE OF HVAC SYSTEMS PRIOR TO BUILDING TURNOVER.

1 MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM EXHAUST FAN / VTR TO

NOTE: FLAG NOTES ARE COMMON TO SHEETS M2.11, M2.12, M2.13, & M2.14.

- NOT ALL FLAG NOTES MAY BE USED ON EACH SHEET.
- ALL FRESH AIR INTAKES.

 2 SET UNIT ON ROOF CURB PER MANUFACTURER'S INSTRUCTIONS. VERIFY EXACT LOCATION OF UNIT WITH GENERAL CONTRACTOR, STRUCTURE, AND ACTUAL ROOFTOP UNIT PROVIDED. MAINTAIN MANUFACTURER'S
- RECOMMENDED CLEARANCES.

 GAS PIPING ON ROOF. SEISMICALLY SUPPORT GAS PIPING FROM ROOF. SUBMIT SHOP DRAWING TO AUTHORITY HAVING JURISDICTION FOR REVIEW. SEE SPECIFICATIONS FOR SPACING REQUIREMENTS SPACING ON PLAN IS GRAPHICAL IN NATURE. COORDINATE ROUTING WITH ROOFING CONTRACTOR AND LOCATION OF ROOF MOUNTED EQUIPMENT.
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 UPSIZE GAS PIPING DOWNSTREAM AS INDICATED ON PLAN TO MINIMIZE

 PRESSURE DROP AND ACCOMMODATE RULES & REGULATIONS OF LOCAL

 UTILITY COMPANY.

NATURAL GAS U	JSAGE TABLE
EQUIPMENT TAG	INPUT CAPACITY (MBH)
RTU-1	180
RTU-2	180
RTU-3	180
RTU-4	180
RTU-5	180
RTU-6	180
RTU-7	180
RTU-8	180
RTU-9	60
RTU-10	60
RTU-11	120
RTU-12	60
RTU-13	180
RTU-14	60
RTU-15	400
RTU-16	160
RTU-17	180
RTU-18	180
RTU-19	180
RTU-20	180
RTU-21	180
RTU-22	180
RTU-23	180
RTU-24	180
RTU-25	120
RTU-26	180
RTU-27	180
FIREPLACE	300 (ESTIMATE)
RH-1	200
TOTAL CONNECTED LOAD	4,960 MBH
NOTE: ALL GAS PIPING IS SIZE THE 2010 OREGON MECHANICA BASED ON 2.0 PSIG NATURAL G CONTRACTOR SHALL NOTIFY E	AL SPECIALTY CODE GAS SERVICE. ENGINEER IF UTILITY

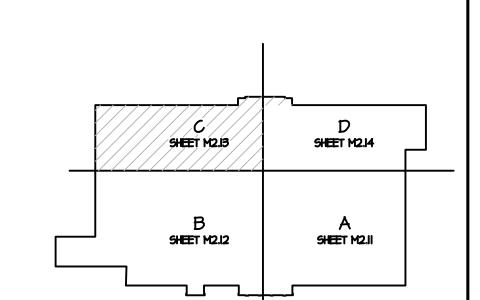
SEISMIC DESIGN REQ'TS

COMPANY IS UNABLE TO SUPPLY A 2.0 PSIG SERVICE

PRIOR TO THE INSTALLATION OF ANY GAS

1. SEE SHEET M1.14 FOR COMPLETE NOTES.

DISTRIBUTION PIPING.



Drawing Name:
PARTIAL ROOF PLAN
MECHANICAL

AREA C

Project #: 12511

Drawn By: NWS

Date: 06 February 2014

Sheet Number:

AVENUE
A 68132
CABELA'S RETAIL
Tualatin

HOLLAND B A HOLLAND

ectrical | technology | commissioning sctrical | technology | commissioning 40 North 118th Street Omaha, NE 68164 P: 402.491.4144

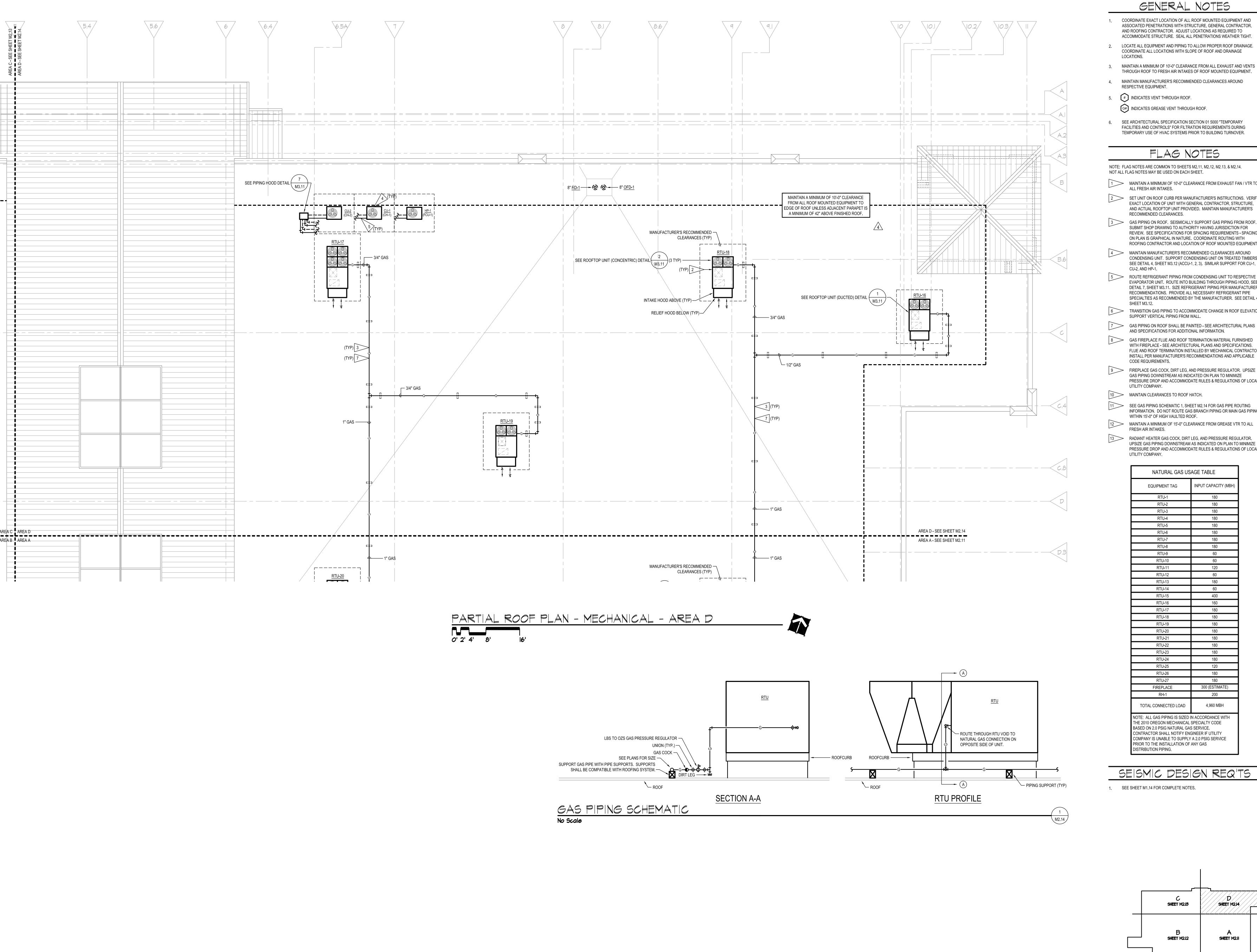
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Permit Issue

Rev 4, CCD 2





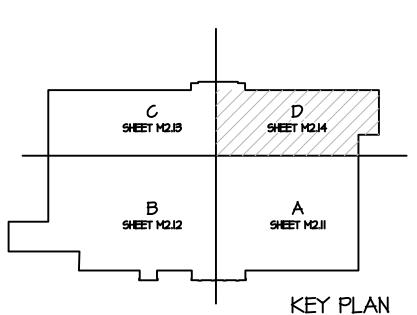
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- 3. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM ALL EXHAUST AND VENTS THROUGH ROOF TO FRESH AIR INTAKES OF ROOF MOUNTED EQUIPMENT.
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- ROOFING CONTRACTOR AND LOCATION OF ROOF MOUNTED EQUIPMENT. 4 MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AROUND CONDENSING UNIT. SUPPORT CONDENSING UNIT ON TREATED TIMBERS. SEE DETAIL 4, SHEET M3.12 (ACCU-1, 2, 3). SIMILAR SUPPORT FOR CU-1,
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NATURAL GAS US	AGE TABLE
EQUIPMENT TAG	INPUT CAPACITY (MBI
RTU-1	180
RTU-2	180
RTU-3	180
RTU-4	180
RTU-5	180
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RTU-8	180
RTU-9	60
RTU-10	60
RTU-11	120
RTU-12	60
RTU-13	180
RTU-14	60
RTU-15	400
RTU-16	160
RTU-17	180
RTU-18	180
RTU-19	180
RTU-20	180
RTU-21	180
RTU-22	180
RTU-23	180
RTU-24	180
RTU-25	120
RTU-26	180
RTU-27	180
FIREPLACE	300 (ESTIMATE)
RH-1	200
TOTAL CONNECTED LOAD	4,960 MBH
NOTE: ALL GAS PIPING IS SIZED I THE 2010 OREGON MECHANICAL BASED ON 2.0 PSIG NATURAL GAS	SPECIALTY CODE S SERVICE.

SEISMIC DESIGN REQ'TS





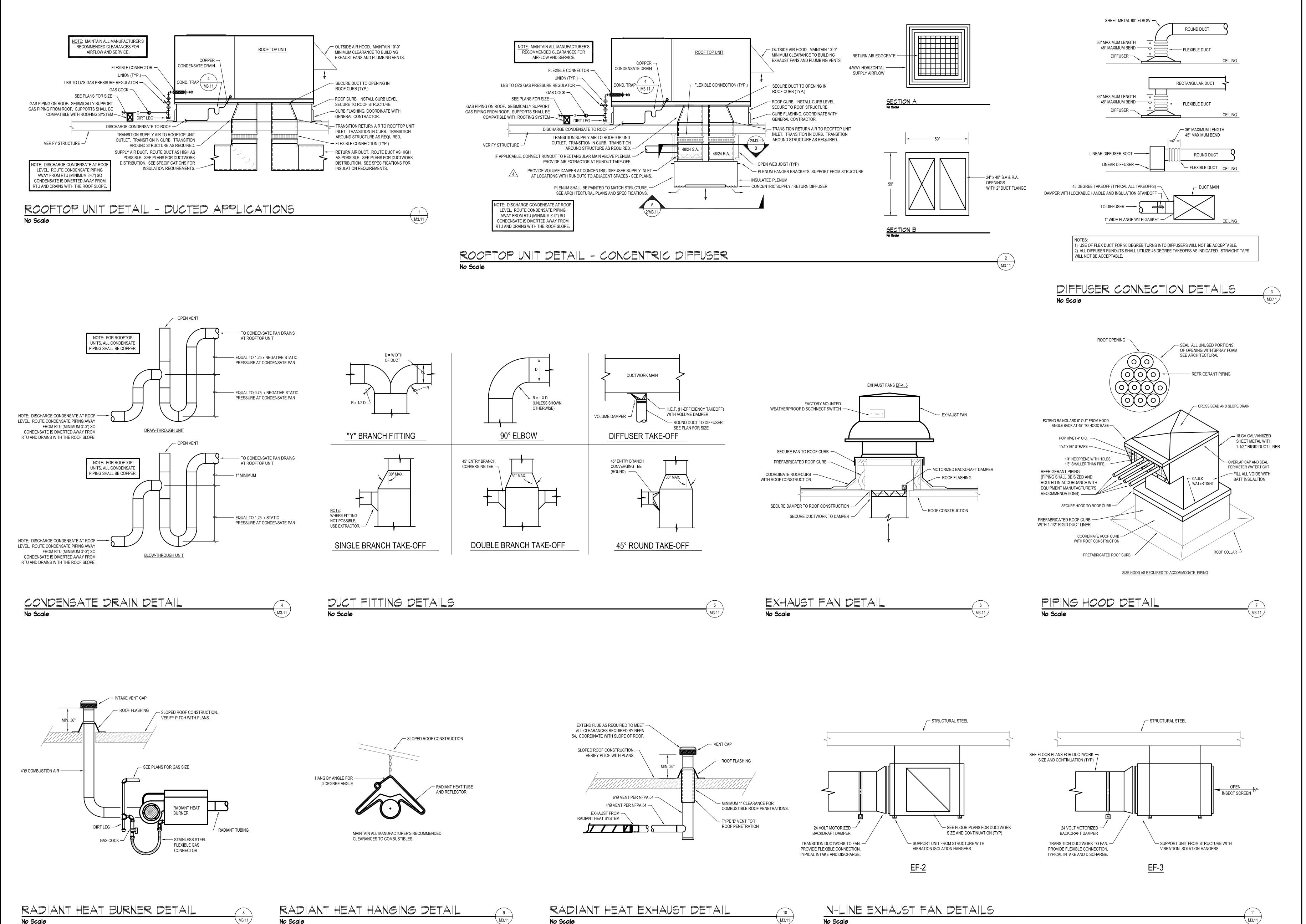
Retail

Revisions: Permit Issue

Rev 4, CCD 2

Drawing Name: PARTIAL ROOF PLAN - MECHANICAL AREA D

Date: 06 February 2014



No Scale

No Scale

No Scale

No Scale

Center Oregon Retail abela's

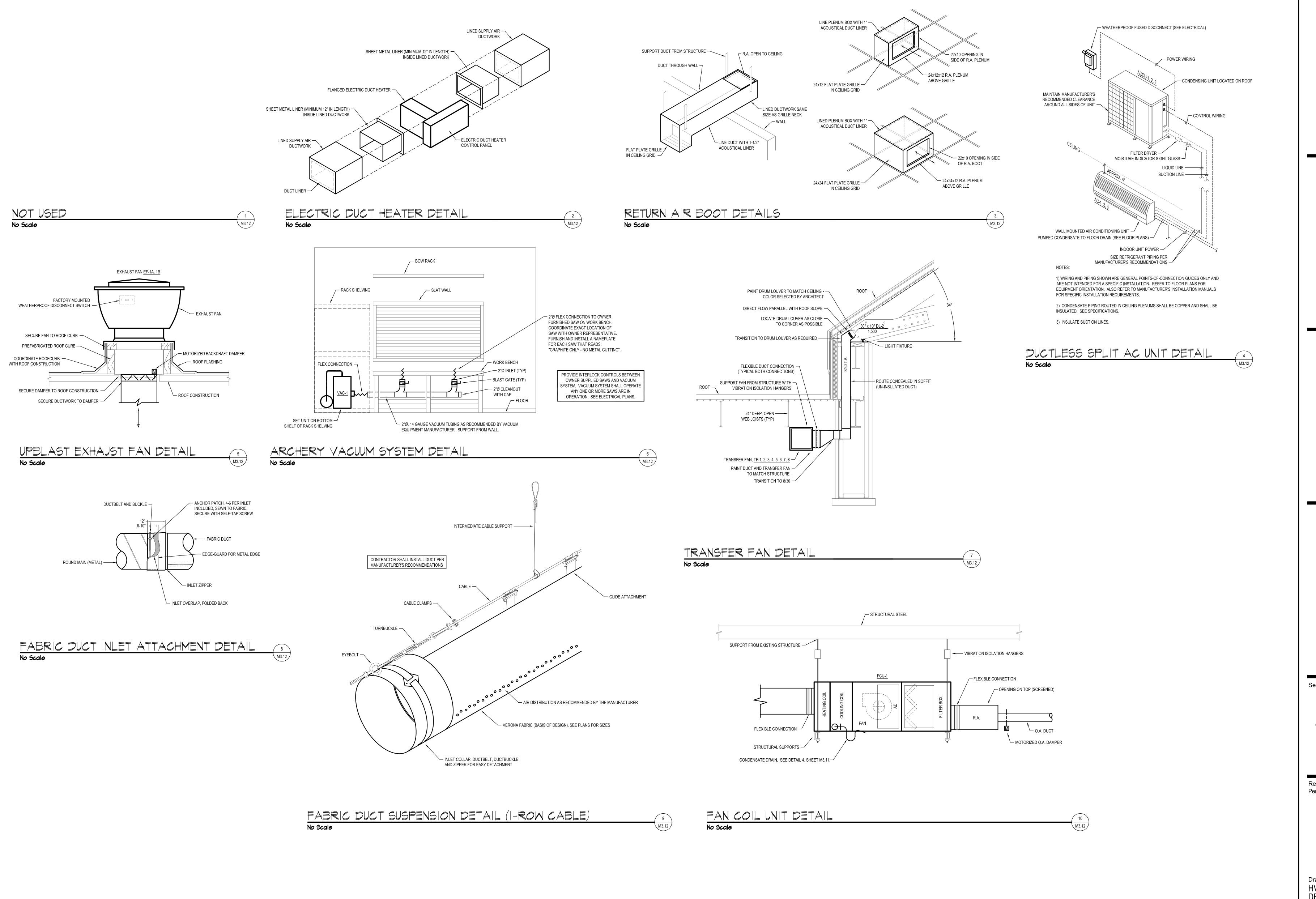


Revisions: 10-03-13 Permit Issue

Rev 4, CCD 2

Drawing Name: DETAILS

Project # Drawn By: Date: 06 February 2014



CABELA'S RETAIL, INCORPORATED Tualatin

HOLLAND BASHAM ARCHITECTS

119 SOUTH 49th AVENUE
OMAHA, NERASKA 68132
(402) 551-0800

Plant morrissey
echanical | engineeringinc
echanical | electrical | technology | commissioning
6940 North 118th Street
Omaha, NE 68164
P: 402.491.4144

Sabela's Retail Center Tualatin, Oregon

Seal:



Revisions:
Permit Issue 10-03

Orawing Name: HVAC DETAILS

Project #: 12511
Drawn By: DCP
Date: 06 February 2014

Sheet Number:

neet Namber.

M3.12

RESPECTIVE FAN MOTOR POWER), AND ELECTRICAL DISCONNECT.

(4) ROOF MOUNTED, BELT-DRIVEN, CENTRIFUGAL UPBLAST EXHAUSTER.

(3) DDC SYSTEM - SEE TEMPERATURE CONTROL SPECIFICATIONS.

(6) CENTRIFUGAL INLINE DIRECT DRIVE FAN.

	MECHANI	CAL 31	MIDOLO
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	Т	YPICAL PIPING	
ф. ф	PIPE TEE / PIPE ELBOW	— —	UNION
⊕ ⊕	ELBOW DN / ELBOW UP	-	STRAINER WITH BLOWDOWN
- ⊘-	ISOLATION VALVE (BALL OR BUTTERFLY)	-V-	CHECK VALVE (ARROW INDICATES FLOW)
—Ф—	BALANCING VALVE	-発	AUTOMATIC CONTROL VALVE TWO-WAY / THREE WAY
-₩-	GATE VALVE		PRESSURE REGULATING VALVE (PRV)
-><\-	GLOBE VALVE	φ	PRESSURE GAUGE
<u></u>	PRESSURE/TEMPERATURE TEST PORT	1	THERMOMETER •
		ONIC HVAC PIPIN	G
-HWS-	HOT WATER SUPPLY PIPING	—HPLS—	HEAT PUMP LOOP PIPING SUPPLY PIPING
—HWR—	HOT WATER RETURN PIPING	—HPLR—	HEAT PUMP LOOP RETURN PIPING
-cws-	CHILLED WATER SUPPLY PIPING	—gws—	GLYCOL WATER SUPPLY PIPING
—CWR—	CHILLED WATER RETURN PIPING	—GWR—	GLYCOL WATER RETURN PIPING
— cs —	CONDENSER WATER SUPPLY PIPING	0	AIR VENT
— CR —	CONDENSER WATER RETURN PIPING	— CD—	COIL CONDENSATE DRAIN (SLOPE TO DRAIN)
	REFR	GERATION PIPIN	G
— RL —	REFRIGERANT LIQUID LINE	—ð—	SOLENOID VALVE
— RS —	REFRIGERANT SUCTION LINE	—————	THERMOSTATIC EXPANSION VALVE (TXV)
— RD —	REFRIGERANT HOT GAS DISCHARGE LINE	— • —	SIGHT GLASS
		HVAC	
6x6 R-1 100	SIDEWALL SUPPLY REGISTER OR GRILLE NECK SIZE (IN), TAG	S	SENSOR
100	AIRFLOW (CFM)	(T)	THERMOSTAT
6x6 R-1	SIDEWALL RETURN OR EXHAUST REGISTER OR GRILLE NECK SIZE (IN), TAG	Ю	HUMIDISTAT
100	AIRFLOW (CFM)	M— - —	MOTORIZED CONTROL DAMPER WITH ACTUATOR
6"Ø D-1	SUPPLY AIR REGISTER NECK SIZE (IN), TAG AIRFLOW (OFM)	— B.D.D.	BACKDRAFT DAMPER
100	AIRFLOW (CFM)	V.D.	VOLUME DAMPER
	SUPPLY AIR, OUTSIDE AIR OR MIXED AIR DUCT END OR RISER UP / RISER DN	— FR.D.	FIRE DAMPER WITH SLEEVE AND ACCESS DOOR
	SOLI EL AIR, GOLGIDE AIR OR WINED AIR DOOL END OR RIGER DIV	M S.D.	SMOKE DAMPER WITH SLEEVE AND ACCESS DOOR
	RETURN AIR. EXHAUST AIR OR RELIEF AIR DUCT END OR RISER UP / RISER DN	M F.S.D.	FIRE/SMOKE DAMPER WITH SLEEVE AND ACCESS DOOR
	RETORNAIN, EXTROST AIR OR RELIEF AIR BOOT END OR RISER OF TRISER BR	S.A.	SUPPLY AIR
- 12/8 -	RECTANGULAR DUCTWORK (WIDTH/DEPTH)(IN) (FIRST NUMBER IS SIDE SHOWN)	R.A.	RETURN AIR
7 12/0	THE TARGOLAN DOCTOROUN (WIDTH/DEFTH)/III) (FINOT NOMBER 10 SIDE SHOWN)	E.A.	EXHAUST AIR
\(\) 12"Ø\(\)	ROUND DUCTWORK (DIAMETER)(IN) (SPIRAL DUCT IN EXPOSED AREAS)	RLF.A.	RELIEF AIR
0 12 10	TOOMS DOOTHON'S (DININETER/(III) (OF IIVAL DOOT III ENFOOLD AREAS)	O.A.	OUTSIDE AIR
[در]	TURNING VANES	M.A.	MIXED AIR

	PLAN TAG	EF-1A	EF-1B	EF-2	EF-3	EF-4	EF-5	TF-1 THRU 8		
	MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK		
	MODEL NUMBER	CUBE-101HP	CUBE-101HP	SQ-120-VG	SQ-120-VG	GB-131	GB-121	SQ-130-VG		
GENERAL	SERVES	KITCHEN 119	SERVICE 118	ARCHERY	MOUNTAIN	RESTROOMS	ELECTRICAL 132	VAULT		
	TYPE	(4)	(4)	(6)	(6)	(1)	(1)	(6)		
	MAXIMUM WEIGHT (LBS)	100	100	100	100	100	100	100		
	ROOF/WALL OPENING SIZE	14-1/2" x 14-1/2"	14-1/2" x 14-1/2"	-	-	14-1/2" x 14-1/2"	14-1/2" x 14-1/2"	-		
	ACCESSORIES	(2)	(2)	(5)	(5)	(2)	(2)	(5)		
	AIRFLOW (CFM)	600	600	1,000	1,000	1,675	1,200	1,500		
	TOTAL SP (IN. W.C.)	0.75"	0.75"	0.75"	0.75"	1.0"	0.75"	0.75"		
	CLASS	-	-	-	-	-	-	-		
F A N I	WHEEL TYPE	B.I.	B.I.	B.I.	B.I.	B.I.	B.I.	B.I.		
FAN	MINIMUM WHEEL DIA.	10.1"	10.1"	-	-	13.1"	12.1"	-		
	MAXIMUM SONES	10.9	10.9	7.8	7.8	13.5	11.6	10.7		
	MAXIMUM FAN RPM	1,883	1,883	1,373	1,373	1,560	1,387	1,468		
	MAXIMUM FAN BHP	0.23	0.23	0.23	0.23	0.48	0.29	0.39		
	RPM	1,725	1,725	1,725	1,725	1,725	1,725	1,725		
	HP	1/2	1/2	1/2	1/2	3/4	3/4	3/4		
	VOLTS	115	115	115	115	115	115	115		
MOTOR	PHASE	1	1	1	1	1	1	1		
	TYPE	O.D.P.	O.D.P.	ECM	ECM	O.D.P.	O.D.P.	ECM		
	CONTROL DEVICE	(3)	(3)	(3)	(3)	(3)	(3)	(3)		
	REMARKS	-	-	-	-	-	-	-		

(5) HANGING NEOPRENE ISOLATORS, MOTOR COVER (INSULATED), 1" INSULATED HOUSING WITH SIDE ACCESS PANELS, AND DISCONNECT SWITCH.

	PLAN TAG	EF-1A	EF-1B	EF-2	EF-3	EF-4	EF-5	TF-1 THRU 8	 	
	MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK		
	MODEL NUMBER	CUBE-101HP	CUBE-101HP	SQ-120-VG	SQ-120-VG	GB-131	GB-121	SQ-130-VG		
GENERAL	SERVES	KITCHEN 119	SERVICE 118	ARCHERY	MOUNTAIN	RESTROOMS	ELECTRICAL 132	VAULT		
	TYPE	(4)	(4)	(6)	(6)	(1)	(1)	(6)		
	MAXIMUM WEIGHT (LBS)	100	100	100	100	100	100	100		
	ROOF/WALL OPENING SIZE	14-1/2" x 14-1/2"	14-1/2" x 14-1/2"	-	-	14-1/2" x 14-1/2"	14-1/2" x 14-1/2"	-		
	ACCESSORIES	(2)	(2)	(5)	(5)	(2)	(2)	(5)		
	AIRFLOW (CFM)	600	600	1,000	1,000	1,675	1,200	1,500		
	TOTAL SP (IN. W.C.)	0.75"	0.75"	0.75"	0.75"	1.0"	0.75"	0.75"		
	CLASS	-	-	-	-	-	-	-		
FANI	WHEEL TYPE	B.I.	B.I.	B.I.	B.I.	B.I.	B.I.	B.I.		
	MINIMUM WHEEL DIA.	10.1"	10.1"	-	-	13.1"	12.1"	=		
	MAXIMUM SONES	10.9	10.9	7.8	7.8	13.5	11.6	10.7		
	MAXIMUM FAN RPM	1,883	1,883	1,373	1,373	1,560	1,387	1,468		
	MAXIMUM FAN BHP	0.23	0.23	0.23	0.23	0.48	0.29	0.39		
	RPM	1,725	1,725	1,725	1,725	1,725	1,725	1,725		
	HP	1/2	1/2	1/2	1/2	3/4	3/4	3/4		
	VOLTS	115	115	115	115	115	115	115		
	PHASE	1	1	1	1	1	1	1		
	TYPE	O.D.P.	O.D.P.	ECM	ECM	O.D.P.	O.D.P.	ECM		
	CONTROL DEVICE	(3)	(3)	(3)	(3)	(3)	(3)	(3)		
	REMARKS	-	-	-	-	-	-	-		

PLAN TAG	D-1	D-2	D-3	D-4	D - 5	DL-1	LD-1	LD-2	LD-3	LD-4	G-1	G-2	G-3	G-4	G-5	G-6	G-7	G-8	R-1	R-2	L-1	
IANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	RUSKIN	
MODEL NUMBER	OMNI	T3SQ-2	CSR-P	TMRA	OMNI	DL-SV	ML-38	FL-10	MLR-38	FL-10	PAR	PAR	PAR	PAR	301RL HD	PAR	301RL HD	PAR	301RL	300RL	ELF15J	
FUNCTION	SUPPLY	SUPPLY	SUPPLY / RETURN	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	RETURN	SUPPLY	RETURN	RETURN	EXHAUST	RETURN	XFER	RETURN	XFER	EXHAUST	EXHAUST	SUPPLY	EXHAUST / O.A.	
DESCRIPTION	FLAT PLATE	(3)	(4)	ROUND	FLAT PLATE	(6)	(11)	(10)	(12)	(13)	PERF. GRILLE	PERF. GRILLE	PERF. GRILLE	PERF. GRILLE	HVY DUTY	PERF. GRILLE	HVY DUTY	PERF. GRILLE	REGISTER	REGISTER	(8)	
DEFLECTION	360°	360°	4-WAY	360°	360°	ADJUSTABLE	ADJUSTABLE	ADJUSTABLE	ADJUSTABLE	ADJUSTABLE	-	-		-	SINGLE	-	SINGLE	-	SINGLE	DOUBLE	45°	
MAXIMUM STATIC PRESSURE (IN W.G.)	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	0.1"	
CONSTRUCTION MATERIAL	STEEL	STEEL	ALUMINUM	STEEL	STEEL	ALUMINUM	ALUMINUM	ALUMINIUM	ALUMINUM	ALUMINUM	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	ALUMINUM	
FINISH	WHITE	WHITE	(7)	WHITE	(9)	ALUMINUM	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	(9)	WHITE	WHITE	WHITE	(7)	
IECK SIZE (IN)	SEE PLANS	SEE PLANS	SEE 2 / M3.11	8"Ø	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	22" x 22"	22" x 10"	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	-	
ACE SIZE (IN)	24" x 24"	24" x 24"	60" x 60"	18"Ø	24" x 24"	VARIES	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	24" x 24"	24" x 12"	16" x 16"	24" x 24"	NECK + 1-3/4"	24" x 12"	NECK + 1-3/4"	12" x 12"	NECK + 1-3/4"	NECK + 1-3/4"	SEE PLANS	
ACCESSORIES		(5)	-	-	-	O.B.D.	-	-	-	-	-	-	-	-	-	<u>-</u>	-	-	O.B.D.	O.B.D.	(14)	
REMARKS	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	-	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	

	(2) NOISE CRITERIA (NC) SHALL BE LESS THAN 25 ON DIFFUSERS, REGISTERS, AND GRILLES LOCATED IN OCCUPIED SPACES.
DEMARKS	(3) ELECTRONIC VARIABLE VOLUME DIFFUSER - HEATING / COOLING.

CONCENTRIC SUPPLY / RETURN DIFFUSER WITH INSULATED PLENUM.

5) PROVIDE 120 / 24 VAC TRANSFORMER, THERMOSTAT, AND 24 VAC RJ-12 CONTROL CABLE.

6) SPLIT VANE DRUM LOUVER

ROOFTOP UNIT SCHEDULE

MANUFACTURER

MODEL NUMBER

CONFIGURATION

REMARKS

ELECTRICAL MAXIMUM FUSE SIZE (AMPS)

MAXIMUM SIZE (LxW)(IN)

MAXIMUM WEIGHT (LBS.)

TOTAL AIRFLOW (CFM)

XTERNAL SP (IN. W.C.)

EXHAUST FAN AIRFLOW (CFM)

MINIMUM OUTSIDE AIRFLOW (CFM)

MINIMUM CIRCUIT AMPACITY (MCA)

AMBIENT AIR TEMPERATURE (F)

MINIMUN NET EER / SEER (ARI)

MIN. NET TOTAL COOLING (MBH)

MIN. NET SENSIBLE COOLING (MBH)

MINIMUM STEPS OF UNLOADING

NOMINAL CAPACITY (TONS)

NO. OF COMPRESSORS

ECONOMIZER OUTSIDE AIRFLOW (CFM)

TOTAL SP (IN. W.C.)

GENERAL

AIRFLOW

COOLING

CONDENSE

SUPPLY

EXHAUST

HEATING

EFFICIENCY

REMARKS

ROOF CURB

ECONOMZER

THERMOSTAT

CONTROLS

REMARKS

REMARKS (10) R-410A REFRIGERANT.

) UNIT WEIGHT - DOES NOT INCLUDE ROOF CURB.

) PROVIDE 5 YEAR COMPRESSOR WARRANTY.

RTU-1, 3, 4, 6, 7 RTU-2, 5, 8

89" x 59" x 51" (3) 120" x 59" x 51" (

YORK (1)

ZJ-120 (21)

SALES FLOOR

DOWNFLOW (2)

1,600 (4)

4,000

(5)

0.5"

(6)

300 / 1,000 (19)

4,000

460

35

27.8

(7) (8)

100°F

12.0 / -

10

121.1 (9)

102.8 (9)

2 SCROLL

(10) (11)

PROP

2 @ 24"Ø

3/4 EACH

CENTRIFUGAL

15" x 15"

PROP

180

144

80%

(12)

(13)

(16) (17)

(18)

3) STANDARD UNIT DIMENSIONS. ADDITIONAL SPACE REQUIRED FOR ROOF CURB, INTAKE HOOD, AND OTHER UNIT ACCESSORIES.

8) PROVIDE INTEGRAL NON-POWERED CONVENIENCE OUTLET. REQUIRES SEPARATE 120 VOLT CONNECTION BY ELECTRICAL.

20) CONSTANT VOLUME HIGH EFFICIENCY ROOFTOP UNIT WITH DX COOLING, NATURAL GAS-FIRED HEAT, AND HOT GAS REHEAT.

21) BASE BID: PROVIDE FACTORY INSTALLED VARIABLE FREQUENCY DRIVE FOR VARIABLE AIR VOLUME CONTROL.

2) CONSTANT VOLUME HIGH EFFICIENCY ROOFTOP UNIT WITH DX COOLING AND NATURAL GAS-FIRED HEAT.

MID-LIFE FILTER, INTERNAL UNIT PRESSURE DROP AND EXTERNAL STATIC PRESSURE INDICATED.

S) PROVIDE POWER EXHAUST. INCLUDE BAROMETRIC RELIEF DAMPER AS REQUIRED.) SINGLE POINT ELECTRICAL CONNECTION. PROVIDE INTEGRAL DISCONNECT SWITCH.

2) TWO STAGE - FIRST STAGE 60% CAPACITY, SECOND STAGE 100% CAPACITY.

) INTEGRATED SOLID STATE CONTROLS WITH BLOWER AND LIMIT CONTROLS.

14) 2" PLEATED. FILTERS SHALL HAVE MINIMUM EFFICIENCY OF MERV 7. 15) SINGLE ENTHALPY CONTROLLED 100% OUTSIDE AIR ECONOMIZER.

NATURAL GAS NATURAL GAS

YORK (1)

ZJ-150 (21)

SALES FLOOR

DOWNFLOW (2)

1,800 (4)

5,000

(5)

0.5"

(6)

5,000

460

50

40.5

(7)(8)

100°F

12.0 / -

12.5

157.4 (9)

128.7 (9)

2 SCROLL

(10) (11)

PROP

4 @ 24"Ø

1/3 EACH

CENTRIFUGAL

15" x 15"

PROP

180

144

80%

(12)

(13)

(16) (17)

(18)

300 / 1,200 (19)

RTU-9

YORK (1)

ZR-037

GUN STORAGE

1,200 (4)

1,200

1.0"

150

1,200

460

15

11.8

(7)(8)

100°F

12.2 / 15

28.6 (9)

24.3 (9)

1 RECIP

(10) (11)

PROP

1 @ 24"Ø

CENTRIFUGAL

12" x 9"

1-1/2

PROP

49

80%

(12)

(13)

(16)

(18)

9) INDICATED CAPACITIES ARE BASED ON 100°F AMBIENT CONDENSING TEMPERATURE AND MAXIMUM ANTICIPATED MIXED AIR CONDITIONS. OUTSIDE AIR @ 92°F DB AND 71°F WB. RETURN AIR @ 75°F AND 50% RH.

(16) (17)

BASE BID: YORK, CONTACT JOE RAY @ (405) 419-6613 OR JOHNY.J.RAY@JCI.COM. ALTERNATE BID: LENNOX, CONTACT CODY JACKSON @ (801) 736-8904 OR CODY.JACKSON@LENNOXIND.COM.

DOWNFLOW (20) DOWNFLOW (20)

89" x 59" x 42" (3) 89" x 59" x 42" (3)

RTU-10

YORK (1)

ZR-037

GUN LIBRARY

1,200 (4)

1,080

(5)

1.0"

(6)

100

1,080

460

15

11.8

(7) (8)

100°F

12.2 / 15

30.3 (9)

24.9 (9)

1 RECIP

(10) (11)

PROP

1 @ 24"Ø

1/3

CENTRIFUGAL

12" x 9"

1-1/2

PROP

3/4

60

49

80%

(12)

(13)

(16) (17)

(18)

13) MANUFACTURER'S 24" HIGH STANDARD INSULATED ROOF CURB. CURB TO BE COMPATIBLE WITH ROOF PITCH. HEIGHT TO MAINTAIN OPENINGS A MINIMUM OF 20" ABOVE FINISHED ROOF - COORDINATE WITH ROOF INSULATION THICKNESS.

19) PROVIDE ROOFTOP UNIT CAPABLE OF DEMAND CONTROLLED VENTILATION. FIRST NUMBER IS "TRUE MINIMUM", SECOND NUMBER IS "CODE REQUIRED MINIMUM". SEE TEMPERATURE CONTROL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NATURAL GAS NATURAL GAS

YORK (1)

ZJ-102

TCHEN/SEATING

DOWNFLOW (2)

1,600 (4)

3,060

1.0"

300 / 600 (19)

3,060

460

23.3

(7)(8)

100°F

12.0 / -

8.5

91.7 (9)

72.7 (9)

2 RECIP

(10) (11)

PROP

2 @ 24"Ø

3/4 EACH

CENTRIFUGAL

15" x 15"

PROP

NATURAL GAS

80%

(12)

(13)

(16) (17)

(18)

YORK (1)

ZJ-037

CONFERENCE

DOWNFLOW (2)

89" x 59" x 51" (3) 89" x 59" x 42" (3) 89" x 59" x 51" (3)

1,200 (4)

1,080

1.0"

1,080

11.8

(7)(8)

100°F

12.2 / 15

29.0 (9)

27.2 (9)

1 RECIP

(10) (11)

PROP

1 @ 24"Ø

CENTRIFUGAL

12" x 9"

1-1/2

PROP

80%

(12)

(13)

4 @ 24x20x2 (14) 4 @ 24x20x2 (14) 4 @ 24x16x2 (14) 4 @ 24x16x2 (14) 4 @ 24x16x2 (14) 4 @ 24x16x2 (14) 4 @ 24x20x2 (14)

(16) (17)

(18)

VERIFY TOTAL STATIC PRESSURE WITH MANUFACTURER'S COMPONENTS. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE FILTER, COOLING COIL, AND OTHER RTU ACCESSORIES. OVERALL ROOFTOP UNIT STATIC PRESSURE RATING SHALL ACCOMMODATE PRESSURE DROP VALUES OF A WET COIL,

16) PROVIDE SIMPLICITY INTELLI-COMFORT II CONTROLLER (MODBUS RTU PROTOCAL) - PRECONFIGURED FOR SPACE SENSOR CONTROL. SEE RTU SPECIFICATION FOR INFORMATION ON TEMPERATURE CONTROLS. SEE TEMPERATURE CONTROL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

18) PROVIDE COIL HAIL GUARDS, HINGED TOOL-LESS ACCESS PANELS, ASHRAE STD 62.1 COMPLIANT COMPOSITE DRAIN PAN (3-TON THROUGH 12.5-TON), ASHRAE STD 62.1 COMPLAINT STAINLESS STEEL DRAIN PAN (15-TON THROUGH 25-TON). SMOKE DETECTORS PROVIDE BY ELECTRICAL.

100 / 200 (19)

YORK (1)

ZJ-102 /

CHECK-OUT

DOWNFLOW (2

1,600 (4)

3,060

3,060

460

23.3

(7)(8)

100°F

12.0 / -

91.7 (9)

72.7 (9)

2 RECIP

(10) (11)

PROP

2 @ 24"Ø

3/4 EACH

CENTRIFUGAL

15" x 15"

PROP

144

80%

(12)

(13)

(16)

(16) (17)

(18)

NATURAL GAS NATURAL GAS

RTU-14

YORK (1)

ZJ-037

CUST. SERVICE

DOWNFLOW (2)

1,200 (4)

1,080

(5)

1.0"

(6)

150

1,080

460

15

11.8

(7)(8)

100°F

12.2 / 15

29.4 (9)

26.3 (9)

1 RECIP

(10) (11)

PROP

1 @ 24"Ø

1/3

CENTRIFUGAL

12" x 9"

1-1/2

PROP

3/4

60

49

80%

(12)

(13)

(15)

(16)

(16) (17)

(18)

NATURAL GAS NATURAL GAS

89" x 59" x 42" (3) 181" x 92" x 53" (3)

RTU-15

YORK (1)

ZJ-300 (21)

WAREHOUSE

DOWNFLOW (2)

4,000 (4)

10,000

(5)

1.50"

(6)

10,000

460

90

74.1

(7)(8)

100°F

10.5 / -

25

282.8 (9)

234.6 (9)

4 SCROLL

(10) (11)

PROP

4 @ 30"Ø

1/3 EACH

CENTRIFUGAL

18" x 15"

PROP

3/4

400

320

80%

(12)

(13)

(16) (17)

(18)

500 / 1,000 (19)

RTU-16 RTU-17, 20, 23

BARGAIN CAVE SALES FLOOR

DOWNFLOW (2) DOWNFLOW (

100 / 425 (19) 300 / 1,200 (19)

89" x 59" x 42" (3) 120" x 59" x 51

YORK (1)

ZJ-150 (21)

1,800 (4)

5,000

0.5"

5,000

460

50

40.5

(7) (8)

100°F

12.0 / -

12.5

157.4 (9)

128.7 (9)

2 SCROLL

(10) (11)

PROP

4 @ 24"Ø

1/3 EACH

CENTRIFUGAL

15" x 15"

PROP

3/4

180

144

80%

(12)

(13)

(16)

(16) (17)

(18)

NATURAL GAS NATURAL GAS

YORK (1)

ZJ-061

1,200 (4)

2,000

(5)

1.0"

(6)

2,000

460

20

16.8

(7) (8)

100°F

12.2 / 15

56.3 (9)

47.4 (9)

1 RECIP

(10) (11)

PROP

2 @ 24"Ø

1/3 EACH

CENTRIFUGAL

12" x 9"

PROP

160

129

80%

(12)

(13)

(16)

(16) (17)

(18)

RTU-18, 19, 21, 22, 24

YORK (1)

ZJ-120 (21)

SALES FLOOR

DOWNFLOW (2)

89" x 59" x 51" (3)

1,600 (4)

4,000

0.5"

300 / 1,000 (19)

4,000

460

27.8

(7)(8)

100°F

12.0 / -

10

121.1 (9)

102.8 (9)

(10) (11)

PROP

2 @ 24"Ø

3/4 EACH

CENTRIFUGAL

15" x 15"

PROP

3/4

NATURAL GAS

180

144

80%

(12)

(13)

(16) (17)

(18)

2 SCROLL

RTU-25

YORK (1)

ZR-078

MIS ROOM

DOWNFLOW (20)

1,600 (4)

2,340

(5)

1.0"

125

2,340

208

60

47.1

(7)(8)

100°F

11.2 / 12.3

6.5

70.9 (9)

58.7 (9)

2 SCROLL

(10) (11)

PROP

2 @ 24"Ø

1/3 EACH

CENTRIFUGAL

12" x 12"

PROP

120

96

80%

(12)

(13)

(16) (17)

(18)

89" x 59" x 42" (3) 89" x 59" x 51" (

RTU-26

YORK (1)

ZJ-102

ADMIN. 2ND FLR

DOWNFLOW (2)

1,600 (4)

3,060

1.0"

450

3,060

23.3

(7)(8)

100°F

12.0 / -

8.5

90.3 (9)

70.9 (9)

2 RECIP

(10) (11)

PROP

2 @ 24"Ø

3/4 EACH

CENTRIFUGAL

15" x 15"

PROP

144

80%

(12)

(16) (17)

NATURAL GAS NATURAL GAS

RTU-27

YORK (1)

ZJ-090

ADMIN. 1ST FLF

DOWNFLOW (2

89" x 59" x 51" (3

1,600 (4)

3,060

1.25"

300 / 450 (19)

3,060

460

25

21.9

(7) (8)

100°F

12.0 / -

7.5

82.1 (9)

76.1 (9)

2 RECIP

(10) (11)

PROP

2 @ 24"Ø

3/4 EACH

CENTRIFUGAL

15" x 15"

PROP

NATURAL GAS

180

144

80%

(12)

(13)

(16)

(16) (17)

(18)

7) PRIME COAT SUITABLE FOR FIELD PAINTING. SEE ARCHITECTURAL FOR PAINT SPECIFICATIONS. 8) THIN LINE STATIONARY LOUVER - INSTALLED IN THE HORIZONTAL POSITION.

9) STANDARD COLOR SELECTED BY ARCHITECT. (10) FLOWBAR ARCHITECTURAL CEILING DIFFUSER, (2) 1" SLOTS, JET THROW PATTERN CONTROLLER, INSULATED PLENUM, AND BORDER TYPE 22 (TAPED-IN TO GYPSUM CEILING).

1) MODULINEAR ARCHITECTURAL CEILING DIFFUSER, (3) 3/4" SLOTS, WITH PATTERN CONTROLLERS, INSULATED PLENUM, AND BORDER TYPE 22 (TAPED-IN TO GYPSUM CEILING). 12) MODULINEAR ARCHITECTURAL CEILING DIFFUSER, (6) 3/4" SLOTS, INSULATED PLENUM, AND BORDER TYPE 22 (TAPED-IN TO GYPSUM CEILING).

13) FLOWBAR ARCHITECTURAL CEILING DIFFUSER, (2) 1" SLOTS, JET THROW PATTERN CONTROLLER, INSULATED PLENUM, AND LAY-IN-TILE CEILING BORDER TYPE. (14) PROVIDE ALUMINUM INSECT SCREEN AND REAR SECURITY BARS.

ESCRIPTION AREA (SF) CLASSIFICATION PERSON SQ FT REQ'D PROVIDED RTU-1 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-2 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-3 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-4 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-6 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-7 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-7 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-8 4,775 RETAIL SALES 7.5 0.12 1995 1,000 RTU-9 900 STORAGE - 0.12 135 150 RTU-9 900 STORAGE - 0.12 135 150 RTU-10 675		i	NICAL SPECIALTY C				1
RTU-2 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-3 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-4 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-5 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-6 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-7 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-8 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-9 900 STORAGE - 0.12 135 150 RTU-10 675 RETAIL SALES 7.5 0.12 100 100 RTU-11 1,450 KITCH./SEATING -/7.5 -/0.18 539 600 RTU-13 2,600 RETAIL SALES 7.5 0.12 572 600 RTU-14 1	EQUIPMENT DESCRIPTION	APPROX. AREA (SF)	OCCUPANCY CLASSIFICATION	CFM PER PERSON	CFM PER SQ FT	CFM REQ'D	MIN. CFM PROVIDED
RTU-3 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-4 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-5 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-6 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-7 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-8 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-9 900 STORAGE - 0.12 135 150 RTU-10 675 RETAIL SALES 7.5 0.12 100 100 RTU-11 1,450 KITCH./ SEATING -/7.5 -/0.18 539 600 RTU-12 750 CONFERENCE 5 0.06 195 200 RTU-13 2,600 RETAIL SALES 7.5 0.12 572 600 RTU-14 1,100 <td>RTU-1</td> <td>4,775</td> <td>RETAIL SALES</td> <td>7.5</td> <td>0.12</td> <td>995</td> <td>1,000</td>	RTU-1	4,775	RETAIL SALES	7.5	0.12	995	1,000
RTU-4 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-5 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-6 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-7 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-8 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-9 900 STORAGE - 0.12 135 150 RTU-10 675 RETAIL SALES 7.5 0.12 100 100 RTU-11 1,450 KITCH./ SEATING -/7.5 -/0.18 539 600 RTU-12 750 CONFERENCE 5 0.06 195 200 RTU-13 2,600 RETAIL SALES 7.5 0.12 572 600 RTU-14 1,100 CUST. SERVICE 5 0.06 128 150 RTU-15 14,250	RTU-2	4,775	RETAIL SALES	7.5	0.12	1,194	1,200
RTU-5 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-6 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-7 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-8 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-9 900 STORAGE - 0.12 135 150 RTU-10 675 RETAIL SALES 7.5 0.12 100 100 RTU-11 1,450 KITCH./ SEATING -/7.5 -/0.18 539 600 RTU-12 750 CONFERENCE 5 0.06 195 200 RTU-13 2,600 RETAIL SALES 7.5 0.12 572 600 RTU-14 1,100 CUST. SERVICE 5 0.06 195 200 RTU-15 14,250 WAREHOUSE - 0.06 967 1,000 RTU-16 1,650	RTU-3	4,775	RETAIL SALES	7.5	0.12	995	1,000
RTU-6 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-7 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-8 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-9 900 STORAGE - 0.12 135 150 RTU-10 675 RETAIL SALES 7.5 0.12 100 100 RTU-11 1,450 KITCH./ SEATING -/7.5 -/0.18 539 600 RTU-12 750 CONFERENCE 5 0.06 195 200 RTU-13 2,600 RETAIL SALES 7.5 0.12 572 600 RTU-14 1,100 CUST. SERVICE 5 0.06 128 150 RTU-15 14,250 WAREHOUSE - 0.06 967 1,000 RTU-16 1,650 RETAIL SALES 7.5 0.12 413 425 RTU-17 4,775	RTU-4	4,775	RETAIL SALES	7.5	0.12	995	1,000
RTU-7 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-8 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-9 900 STORAGE - 0.12 135 150 RTU-10 675 RETAIL SALES 7.5 0.12 100 100 RTU-11 1,450 KITCH./ SEATING -/7.5 -/0.18 539 600 RTU-12 750 CONFERENCE 5 0.06 195 200 RTU-13 2,600 RETAIL SALES 7.5 0.12 572 600 RTU-14 1,100 CUST. SERVICE 5 0.06 128 150 RTU-15 14,250 WAREHOUSE - 0.06 967 1,000 RTU-16 1,650 RETAIL SALES 7.5 0.12 413 425 RTU-17 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-18 4,775	RTU-5	4,775	RETAIL SALES	7.5	0.12	1,194	1,200
RTU-8 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-9 900 STORAGE - 0.12 135 150 RTU-10 675 RETAIL SALES 7.5 0.12 100 100 RTU-11 1,450 KITCH. / SEATING - / 7.5 - / 0.18 539 600 RTU-12 750 CONFERENCE 5 0.06 195 200 RTU-13 2,600 RETAIL SALES 7.5 0.12 572 600 RTU-14 1,100 CUST. SERVICE 5 0.06 128 150 RTU-15 14,250 WAREHOUSE - 0.06 967 1,000 RTU-16 1,650 RETAIL SALES 7.5 0.12 413 425 RTU-17 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-18 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-20 4,775 <td>RTU-6</td> <td>4,775</td> <td>RETAIL SALES</td> <td>7.5</td> <td>0.12</td> <td>995</td> <td>1,000</td>	RTU-6	4,775	RETAIL SALES	7.5	0.12	995	1,000
RTU-9 900 STORAGE - 0.12 135 150 RTU-10 675 RETAIL SALES 7.5 0.12 100 100 RTU-11 1,450 KITCH./ SEATING -/7.5 -/0.18 539 600 RTU-12 750 CONFERENCE 5 0.06 195 200 RTU-13 2,600 RETAIL SALES 7.5 0.12 572 600 RTU-14 1,100 CUST. SERVICE 5 0.06 128 150 RTU-15 14,250 WAREHOUSE - 0.06 967 1,000 RTU-16 1,650 RETAIL SALES 7.5 0.12 413 425 RTU-17 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-18 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-20 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-21 4,775	RTU-7	4,775	RETAIL SALES	7.5	0.12	995	1,000
RTU-10 675 RETAIL SALES 7.5 0.12 100 100 RTU-11 1,450 KITCH. / SEATING - / 7.5 - / 0.18 539 600 RTU-12 750 CONFERENCE 5 0.06 195 200 RTU-13 2,600 RETAIL SALES 7.5 0.12 572 600 RTU-14 1,100 CUST. SERVICE 5 0.06 128 150 RTU-15 14,250 WAREHOUSE - 0.06 967 1,000 RTU-16 1,650 RETAIL SALES 7.5 0.12 413 425 RTU-17 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-18 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-20 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-21 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-22	RTU-8	4,775	RETAIL SALES	7.5	0.12	1,194	1,200
RTU-11 1,450 KITCH. / SEATING - / 7.5 - / 0.18 539 600 RTU-12 750 CONFERENCE 5 0.06 195 200 RTU-13 2,600 RETAIL SALES 7.5 0.12 572 600 RTU-14 1,100 CUST. SERVICE 5 0.06 128 150 RTU-15 14,250 WAREHOUSE - 0.06 967 1,000 RTU-16 1,650 RETAIL SALES 7.5 0.12 413 425 RTU-17 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-18 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-19 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-20 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-21 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-23	RTU-9	900	STORAGE	-	0.12	135	150
RTU-12 750 CONFERENCE 5 0.06 195 200 RTU-13 2,600 RETAIL SALES 7.5 0.12 572 600 RTU-14 1,100 CUST. SERVICE 5 0.06 128 150 RTU-15 14,250 WAREHOUSE - 0.06 967 1,000 RTU-16 1,650 RETAIL SALES 7.5 0.12 413 425 RTU-17 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-18 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-19 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-20 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-21 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-22 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-23 4	RTU-10	675	RETAIL SALES	7.5	0.12	100	100
RTU-13 2,600 RETAIL SALES 7.5 0.12 572 600 RTU-14 1,100 CUST. SERVICE 5 0.06 128 150 RTU-15 14,250 WAREHOUSE - 0.06 967 1,000 RTU-16 1,650 RETAIL SALES 7.5 0.12 413 425 RTU-17 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-18 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-19 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-20 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-21 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-22 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-23 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-24	RTU-11	1,450	KITCH. / SEATING	- / 7.5	- / 0.18	539	600
RTU-14 1,100 CUST. SERVICE 5 0.06 128 150 RTU-15 14,250 WAREHOUSE - 0.06 967 1,000 RTU-16 1,650 RETAIL SALES 7.5 0.12 413 425 RTU-17 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-18 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-19 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-20 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-21 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-22 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-23 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-24 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-25	RTU-12	750	CONFERENCE	5	0.06	195	200
RTU-15 14,250 WAREHOUSE - 0.06 967 1,000 RTU-16 1,650 RETAIL SALES 7.5 0.12 413 425 RTU-17 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-18 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-19 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-20 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-21 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-22 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-23 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-24 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-25 350 TELECOMM. - 0.06 100 125 RTU-26 3,100 OFFICES 5 0.06 432 450	RTU-13	2,600	RETAIL SALES	7.5	0.12	572	600
RTU-16 1,650 RETAIL SALES 7.5 0.12 413 425 RTU-17 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-18 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-19 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-20 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-21 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-22 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-23 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-24 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-25 350 TELECOMM. - 0.06 100 125 RTU-26 3,100 OFFICES 5 0.06 432 450	RTU-14	1,100	CUST. SERVICE	5	0.06	128	150
RTU-17 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-18 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-19 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-20 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-21 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-22 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-23 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-24 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-25 350 TELECOMM. - 0.06 100 125 RTU-26 3,100 OFFICES 5 0.06 432 450	RTU-15	14,250	WAREHOUSE	-	0.06	967	1,000
RTU-18 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-19 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-20 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-21 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-22 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-23 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-24 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-25 350 TELECOMM. - 0.06 100 125 RTU-26 3,100 OFFICES 5 0.06 432 450	RTU-16	1,650	RETAIL SALES	7.5	0.12	413	425
RTU-19 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-20 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-21 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-22 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-23 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-24 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-25 350 TELECOMM. - 0.06 100 125 RTU-26 3,100 OFFICES 5 0.06 432 450	RTU-17	4,775	RETAIL SALES	7.5	0.12	1,194	1,200
RTU-20 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-21 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-22 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-23 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-24 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-25 350 TELECOMM. - 0.06 100 125 RTU-26 3,100 OFFICES 5 0.06 432 450	RTU-18	4,775	RETAIL SALES	7.5	0.12	995	1,000
RTU-21 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-22 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-23 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-24 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-25 350 TELECOMM. - 0.06 100 125 RTU-26 3,100 OFFICES 5 0.06 432 450	RTU-19	4,775	RETAIL SALES	7.5	0.12	995	1,000
RTU-22 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-23 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-24 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-25 350 TELECOMM. - 0.06 100 125 RTU-26 3,100 OFFICES 5 0.06 432 450	RTU-20	4,775	RETAIL SALES	7.5	0.12	1,194	1,200
RTU-23 4,775 RETAIL SALES 7.5 0.12 995 1,000 RTU-24 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-25 350 TELECOMM. - 0.06 100 125 RTU-26 3,100 OFFICES 5 0.06 432 450	RTU-21	4,775	RETAIL SALES	7.5	0.12	995	1,000
RTU-24 4,775 RETAIL SALES 7.5 0.12 1,194 1,200 RTU-25 350 TELECOMM. - 0.06 100 125 RTU-26 3,100 OFFICES 5 0.06 432 450	RTU-22	4,775	RETAIL SALES	7.5	0.12	995	1,000
RTU-25 350 TELECOMM. - 0.06 100 125 RTU-26 3,100 OFFICES 5 0.06 432 450	RTU-23	4,775	RETAIL SALES	7.5	0.12	995	1,000
RTU-26 3,100 OFFICES 5 0.06 432 450	RTU-24	4,775	RETAIL SALES	7.5	0.12	1,194	1,200
	RTU-25	350	TELECOMM.	-	0.06	100	125
RTIL-27 3.125 OFFICES 5 0.06 402 450	RTU-26	3,100	OFFICES	5	0.06	432	450
1(10-2) 0,120 01110L0 3 0.00 402 400	RTU-27	3,125	OFFICES	5	0.06	402	450





Permit Issue

Rev 4, CCD 2

Drawing Name:

Drawn By: Date: 06 February 2014

AIR-T	O-AIR HEAT PUMP SO	CHEDULE	
	PLAN TAG	HP-1	
	MANUFACTURER	YORK	<u> </u>
	MODEL NUMBER	YHJD36-S44S4	ļ
GENERAL	SERVES	FCU-1	ļ
OLIVEIVAL	CONFIGURATION	(1)	
	MAXIMUM SIZE (LxW)(IN)	34" x 34" x 40"	
	MAXIMUM WEIGHT (LBS.)	250	
	REMARKS	(3) (4) (6)	
	VOLTS	460	
	PHASE	3	
	MAXIMUM UNIT KW	3.12	
ELECTRICAL	MAXIMUM FUSE SIZE (AMPS)	15	
	MINIMUM CIRCUIT AMPACITY (MCA)	6.4	
	REMARKS	(5)	
	AMBIENT AIR TEMPERATURE (F)	95°F	
	MINIMUM NET EER (ARI)	11.0	
COOLING	NOMINAL CAPACITY (TONS)	3	
	TOTAL COOLING (MBH)	35.5	
	SENSIBLE COOLING (MBH)	25.7	
	AMBIENT AIR TEMPERATURE (F)	47°F	
HEATING	MINIMUM NET EER (ARI)	-	
	MINIMUM HEATING CAPACITY (MBH)	32.5	
	TYPE	R-410A	
REFRIGERANT	MIN. NUMBER OF CIRCUITS	1	1
	REMARKS	-	
	TYPE	RECIP	
COMPRES- SORS	QUANITY/SIZE	1	1
00110	HP	3 TONS	
	REMARKS	(2)	
	TYPE	-	
CONDENSER	QUANITY/SIZE	-	
FANS	HP	-	1
	REMARKS	1 -	
REMARKS	 (1) REMOTE OUTDOOR SPLIT SYSTEM A (2) PROVIDE 5 YEAR COMPRESSOR WAR (3) LOW AMBIENT CONTROLS ALLOWING (4) CRANKCASE HEATER. 	RRANTY	

(5) DISCONNECT BY ELECTRICAL.

(6) HAIL GUARDS.

	PLAN TAG	FCU-1		
	MANUFACTURER	YORK		
	MODEL NUMBER	MA16CN41 (1)		
OFNEDAL	SERVES	EQUIP RM 129A		
GENERAL	CONFIGURATION	HORIZONTAL (6)		
	MAXIMUM SIZE (LxWxD)(IN)	22" x 21" x 25" (10)		
	MAXIMUM WEIGHT	250		
	OUTSIDE AIRFLOW (CFM)	300		
	REMARKS	(1)		
	AIRFLOW (CFM)	1,200		
FAN	EXTERNAL STATIC PRESSURE (IN. W.C.)	0.75"		
	MAXIMUM FAN BHP	-		
	RPM	-		
	HP	-		
	VOLTS	460		
MOTOR	PHASE	3		
	TYPE	(9)		
	CONTROL DEVICE	-		
	REMARKS	-		
	ENTERING AIR TEMP (°F)	60		
HEATING	LEAVING AIR TEMP (°F)	94.9		
	TOTAL CAPACITY (BTUH)	45.2		
	REMARKS	(7)		
	ENTERING DB (°F)	80°F		
	ENTERING WB (°F)	67°F		
COOLING	LEAVING DB (°F)	60.2°F		
COOLING	LEAVING WB (°F)	57.7°F		
	TOTAL CAPACITY (MBH)	35.5		
	SENSIBLE CAPACITY (MBH)	25.7		
	REMARKS	-		
	VOLTAGE/PHASE	460 / 3		
	SIZE (KW)	15		
ELECTRIC	NUMBER OF STAGES	2		
	KW PER STAGE	7.5		
	REMARKS	(7) (8)		
DIRECT	REFRIGERANT TYPE	R-410A		
EXPANSION	SATURATED SUCTION TEMP (°F)	-		
	REMARKS	(2)		
	FILTERS	(3)		
ACCESS.	HUMIDIFIER	-		
	CONTROLS	(4)		
	REMARKS	(5)		
REMARKS	 (1) MODULAR AIR HANDLING UNIT WITH D (2) COOLING COIL AND AIR-TO-AIR HEAT I (3) 2" PLEATED DISPOSABLE FILTER OF M (4) DDC SYSTEM - SEE TEMPERATURE COTTERMINAL STRIP. 	PUMP TO MATCH AIF ERV 8 MINIMUM.	R HANDLING UNIT.	ONTROL

(6) MULTI-POSITION MODULAR AIR HANDLER INSTALLED IN A HORIZONTAL CONFIGURATION.

(8) FACTORY INSTALLED ELECTRIC HEAT WITH SINGLE POINT ELECTRICAL CONNECTION. DISCONNECT PROVIDED BY ELECTRICAL. 24.9 MCA, 25 AMP MOCP AT 460 VOLT / 3 PHASE.

(10) DIMENSIONS ARE FOR MODULAR AIR HANDLER UNIT ONLY. ADDITIONAL SPACE

REQUIRED FOR DX COOLING AND ELECTRIC HEATING COILS.

TERMINAL STRIP. (5) HARD START KIT.

(7) ELECTRIC HEAT NOMINAL CAPACITY OF 15 KW.

FAN COIL UNIT (ELECTRIC HEAT) SCHEDULE

	PLAN TAG	EDH-1	EDH-2	EDH-3	EDH-4	EDH-5	
	MANUFACTURER	INDEECO	INDEECO	INDEECO	INDEECO	INDEECO	
	MODEL NUMBER	QUZ	QUZ	QUZ	QUZ	QUZ	
GENERAL	SERVES	CONFERENCE 135	SECURITY 137	OFFICE 209	CONFERENCE 208	CONFERENCE 207	
	APPROXIMATE SIZE (LxW)(IN)	(3)	(3)	(3)	(3)	(3)	
	TYPE	OPEN COIL	OPEN COIL	OPEN COIL	OPEN COIL	OPEN COIL	
	MAX. FINS PER INCH		-	-	-	-	
	REMARKS	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	
	AIRFLOW (CFM)	225	225	175	175	410	
	FACE VELOCITY	(4)	(4)	(4)	(4)	(4)	
	MAX. AIR PRESSURE DROP (IN. WG)	0.1"	0.1"	0.1"	0.1"	0.1"	
AIR	ENTERING AIR TEMP (°F)	70°F	70°F	70°F	70°F	70°F	
	LEAVING AIR TEMP (°F)	98°F	98°F	97°F	97°F	97°F	
	TOTAL CAPACITY (MBH)	6.8	6.8	5.1	5.1	11.9	
	REMARKS	-	-	-	-	-	
	VOLTAGE/PHASE	277 / 1	277 / 1	277 / 1	277 / 1	277 / 1	
	CAPACITY (KW)	2.0	2.0	1.5	1.5	3.5	
ELECTRIC	NUMBER OF STAGES	SCR	SCR	SCR	SCR	SCR	
	KW PER STAGE	-	-	-	-	-	
	REMARKS	(2)	(2)	(2)	(2)	(2)	

(3) SEE PLANS FOR DUCT SIZES. MAINTAIN MANUFACTURER'S RECOMMENDED MINIMUM SPACING INSIDE DUCT TO MINIMIZE AIR BYPASS.

(4) MAINTAIN MINIMUM REQUIRED AIRFLOW VELOCITY ACCORDING TO MANUFACTURER'S RECOMMENDATION.

<u>VAC-1</u>	The state of the s	DESCRIPTION: CONTINUOUS DUTY REGENERATIVE VACUUM PRODUCER, TEFC 3,600 R HIGH EFFICIENCY MOTOR, HEAVY DUTY CLOTH FILTER, CAST ALUMINUM BLOWER AND IMPELLER, DISCHARGE FILTER SILENCER, POWDER COAT FINISH PAINT, AND 4 GALLON STORAGE TANK. MOTOR: 1 HP @ 115 VOLT, 1 PHASE PERFORMANCE: 98 CFM MAXIMUM, 50" S.P. MAXIMUM VACUUM DIMENSIONS: 24" (L) x 18" (W) x 28" (H) @ 145 LBS.			
	MODEL: AMERICAN VACUUM COMPANY - ARCO 1000-S				
CH-1 / CU-1 & CH-2 / CU-2		DESCRIPTION: AIR-COOLED WATER CHILLER WITH REMOTE EVAPORATOR BUNDLE PERFORMANCE: MINIMUM WATER FLOW = 100 GPM, MAXIMUM WATER FLOW = 160 GPM, A OUTPUT = 5,670 CFM, 7.5 HP MOTOR, R-410a ELECTRICAL: 460 VOLT, 3 PHASE, 19.7 MCA, 25 MOCP DIMENSIONS: AIR-COOLED CONDENSING UNIT (TRANE TTA090D4) = 42" x 36" x 40" EVAPORATOR BUNDLE = 34" x 20" x 60"			

(1) PICTURES OF EQUIPMENT MAY NOT INDICATE ACTUAL EQUIPMENT SPECIFIED. PICTURES ARE GRAPHICAL IN NATURE. SEE DESCRIPTION

FOR ACTUAL EQUIPMENT MODEL.

GENERAL	PLAN TAG	AC-1 / ACCU-1	AC-2 / ACCU-2	
	MANUFACTURER	CARRIER	CARRIER	
	MODEL NUMBER	40-MVC-012	40-MVC-009	
	SERVES	MIS 204	ELEV EQUIP RM	
	CONFIGURATION	(1)	(1)	
	MAXIMUM SIZE (LxWxH)(IN)	36" x 10" x 12"	32" x 8" x 11"	
	ACCESSORIES	-	-	
	REMARKS	(4) (6) (10)	(4) (6) (10)	
AIDELOW	AIRFLOW (CFM)	365	325	
AIRFLOW	MOTOR HP	-	-	
	VOLTS	115	115	
	PHASE	1	1	
ELECTRICAL	OVERCURRENT PROTECTION	25	20	
	MINIMUM CIRCURIT AMPACITY	15	12	
	REMARKS	(8)	(9)	
	HEAT PUMP (MBH)	-	- 1	
LIFATING	ELECTRIC COIL (KW)	-	- 1	
HEATING	TOTAL CAPACITY (MBH)	-	-	
	REMARKS	-	-	
	AMBIENT AIR DB (°F)	100°F	100°F	
	ENTERING AIR DB/WB (°F)	80°F / 67°F	80°F / 67°F	
	TOTAL CAPACITY (MBH)	12	9	
COOLING	SENSIBLE CAPACITY (MBH)	-	-	
	REFRIGERANT TYPE	R-410A	R-410A	
	MINIMUM SEER	13	13	

(2) NOT USED.

(3) CONDENSING UNIT LOCATED ON ROOF. PROVIDE ALL ADDITIONAL REFRIGERANT PIPING ACCESSORIES AS REQUIRED TO ACCOMMODATE REFRIGERANT LINE LENGTH AND CONDENSING UNIT ELEVATION (SEE PLANS).

(4) PROVIDE MANUFACTURER'S REMOTE WALL MOUNTED WIRELESS THERMOSTAT.

(5) PROVIDE COMPRESSOR WITH 5-YEAR WARRANTY. (6) PROVIDE WITH MANUFACTURER'S WASHABLE FILTERS.

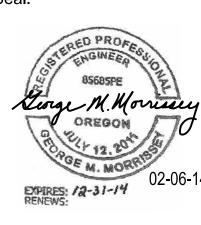
(7) PROVIDE LOW AMBIENT KIT TO ALLOW COOLING DOWN TO -20°F.

(8) PROVIDE MANUFACTURER'S OUTDOOR CONDENSING UNIT MODEL 38-MVC-012. POWER

FOR INDOOR UNIT TO COME OFF OF OUTDOOR UNIT. (9) PROVIDE MANUFACTURER'S OUTDOOR CONDENSING UNIT MODEL 38-MVC-009. POWER

FOR INDOOR UNIT TO COME OFF OF OUTDOOR UNIT. (10) PROVIDE WITH CONDENSATE PUMP CAPABLE OF A MINIMUM OF 6 FOOT OF HEAD. PUMP RESERVE SHALL HAVE HIGH LEVEL ALARM.

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Drawn By: DCP
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