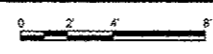


MECHANICAL & ELECTRICAL ROOF PLAN - NEW WORK



NOTE: CONTRACTOR TO LOCATE EMBEDDED UTILITIES IN ROOF DECK PRIOR TO CORING OR CUTTING CONCRETE. REVIEW ANY INTERFERENCE WITH ENGINEER.

VENTILATION KEYED NOTES - NEW WORK

- 1 TWO EQUIPMENT MOUNTING SUPPORTS SHALL BE INSTALLED TO ACCOMMODATE THE REINSTALLATION OF EXISTING DX SPLIT SYSTEM AIR COOLED CONDENSING UNIT. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF EXISTING AIR COOLED CONDENSING UNIT IN ORDER TO PROVIDE EQUIPMENT SUPPORTS OF ADEQUATE DIMENSION. REFER TO SHEET 0011 FOR EQUIPMENT MOUNTING SUPPORT DETAIL.
- 2 EXISTING 5 TON DX SPLIT SYSTEM AIR COOLED CONDENSING UNIT SHALL BE REINSTALLED ON NEW EQUIPMENT MOUNTING SUPPORTS. NEW HARD COPPER REFRIGERANT PIPING FROM AIR COOLED CONDENSING UNIT TO DX SPLIT SYSTEM FAN COIL LOCATED ON SECOND FLOOR OF BUILDING SHALL BE INSTALLED (EST. SIZE OF REFRIG PIPING - 3/8" SUCTION, 1/2" LIQUID). FILTER DRIER AND SITE GLASS SHALL BE INSTALLED IN NEW LIQUID LINE. PROVIDE NEW REFRIGERANT AND START-UP FOR SPLIT SYSTEM.
- 3 CONCRETE ROOF DECK SHALL BE CORE DRILLED TO ACCOMMODATE INSTALLATION OF NEW PIPE CURB AND ROUTING OF NEW REFRIGERANT LINE SET AND LIQUID TIGHT FLEXIBLE CONDUIT TO RELOCATED EXISTING DX SPLIT SYSTEM AIR COOLED CONDENSING UNIT. REFER TO SHEET 0010 FOR PIPE CURB DETAIL.
- 4 NEW GRAVITY INTAKE VENTILATOR SHALL BE INSTALLED IN LOCATION OF GOOSENECK GRAVITY VENTILATOR REMOVED DURING DEMOLITION TO REUSE EXISTING ROOF PENETRATION. CONTRACTOR SHALL ALLOW FOR ADDITIONAL LENGTH OF DUCT AND TRANSITION FITTINGS REQUIRED TO CONNECT EXISTING FRESH AIR DUCT TO NEW GRAVITY INTAKE VENTILATOR. INSULATE NEW FRESH AIR DUCTWORK EXTERNALLY WITH 1-1/2", 1.5 PCF DUCTWRAP.
- 5 NEW RESTROOM EXHAUST FAN SHALL BE INSTALLED IN LOCATION OF EXHAUST FAN REMOVED DURING DEMOLITION TO REUSE EXISTING ROOF PENETRATION. CONTRACTOR SHALL ALLOW FOR ADDITIONAL LENGTH OF DUCT AND TRANSITION FITTINGS REQUIRED TO CONNECT EXISTING EXHAUST DUCT TO NEW RESTROOM EXHAUST FAN. INSTALLATION OF NEW EXHAUST DUCT/FITTINGS SHALL OCCUR AT ROOF LEVEL THEREFORE, DEMOLITION OF RESTROOM CEILING/WALL TO ACCOMMODATE INSTALLATION OF NEW DUCTWORK ON THE INTERIOR OF THE BUILDING IS NOT ALLOWED. CONTRACTOR SHALL COORDINATE HEIGHT OF NEW EXHAUST FAN CURB TO ALLOW FOR CONNECTION WITH EXISTING EXHAUST DUCT. INSULATE NEW EXHAUST DUCTWORK EXTERNALLY WITH 1-1/2", 1.5 PCF DUCTWRAP.
- 6 NEW RTU SHALL BE INSTALLED IN LOCATION SHOWN. SEE DETAILS 4 AND 5 ON SHEET 0011D FOR CUTTING OF CONCRETE ROOF DECK AND INSTALLATION OF SUPPLEMENTAL ROOF DECK SUPPORT STEEL.

ELECTRICAL KEYED NOTES - NEW WORK

- 1 FURNISH AND INSTALL NEW HEAVY DUTY NON-FUSED DISCONNECT SWITCH AND #6, #10g, 1-1/4" RGS CONDUIT TO EXISTING DISCONNECT ON SECOND FLOOR. FURNISH AND INSTALL 1" LIQUIDTIGHT FLEXIBLE METAL CONDUIT AND SAME SIZE WIRE FROM THE LOAD SIDE OF THE DISCONNECT TO THE UNIT.
- 2 RECONNECT EXHAUST FAN TO EXISTING CIRCUIT. UNIT PROVIDED WITH FACTORY MOUNTED PRE-WIRED DISCONNECT.
- 3 FURNISH AND INSTALL A 1-1/4" RGS CONDUIT STUBBED FROM THE FACTORY PROVIDED DISCONNECT THROUGH THE ROOF CURB CUTOUTS INTO THE CEILING OF THE SECOND FLOOR FOR FUTURE POWER CONNECTIONS.
- 4 FURNISH AND INSTALL A 3/4" RGS CONDUIT STUBBED FROM THE FACTORY MOUNTED DUCT SMOKE DETECTOR THROUGH THE ROOF CURB CUTOUTS AND INTO THE CEILING OF THE SECOND FLOOR FOR FUTURE FIRE ALARM CONNECTION.
- 5 FURNISH AND INSTALL WEATHERPROOF GFI RECEPTACLE ON THE OUTSIDE OF THE UNIT. STUB A 3/4" RGSC FROM RECEPTACLE THROUGH THE ROOF CURB CUTOUTS AND INTO THE SECOND FLOOR CEILING SPACE FOR FUTURE CONNECTION.



USER NAME =	DESIGNED - JPD/ATK	REVISED 09/04/12 NEWLY ADDED SHEET
PLOT SCALE =	DRAWN - HWH	REVISED
PLOT DATE =	CHECKED - JPD	REVISED
	APPROVED - ATK	REVISED

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

MECHANICAL & ELECTRICAL ROOF PLAN - NEW WORK
Scale SHEET NO. 11 OF 11 SHEETS Station From Station To

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2012-0451	WILL	11	0011B
CONTRACT NO. 60V37			ILLINOIS FED. AID PROJECT	