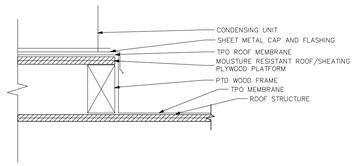
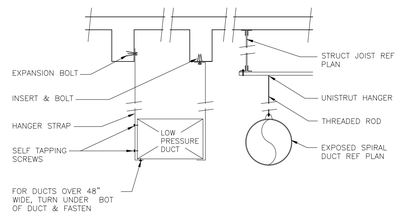
DRGLS & SOUTHWEST ARCH/PPE 4480 - 09/13/2013



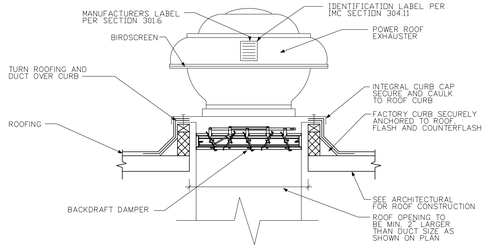
A12 ROOF PLATFORM



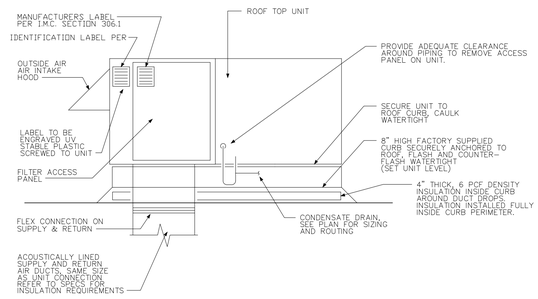
* FOR DUCTS 18" OR MORE BELOW STRUCTURE, PROVIDE SEISMIC CROSS BRACING.

DUCT SIZE	HANGER SIZE	MAX. SPACING
UP THRU 2 SQ.FT.	1" x 1/16"	8'-0"
2 THRU 4 SQ.FT.	1" x 1/8"	8'-0"
4 THRU 10 SQ.FT.	1" x 1/8"	6'-0"
OVER 10 SQ.FT.	1" x 1/8"	4'-0"

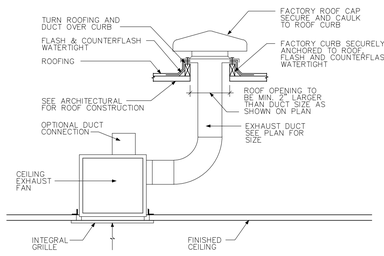
A9 DUCT SUPPORT



A5 POWER ROOF EXHAUSTER DETAIL

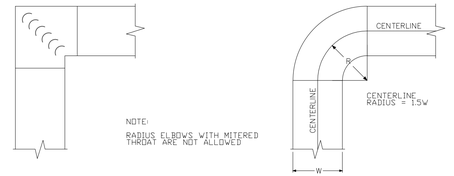


A1 ROOF-TOP PACKAGE UNIT DETAIL

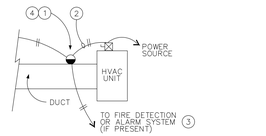


NOTE: INSTALL EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS

A10 CEILING EXHAUST FAN DETAIL



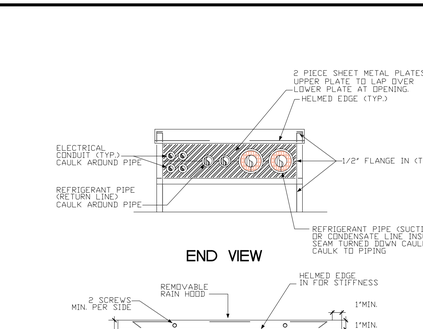
A6 DUCT ELBOW DETAILS



NOTES:

1. "LOW FLOW" TYPE DUCT SMOKE DETECTOR MOUNTED ON THE SUPPLY AIR DUCT WHERE SHOWN. FURNISHED, INSTALLED, AND CONTROL WIRING BY MECHANICAL CONTRACTOR. POWER WIRING BY ELECTRICAL/FIRE ALARM CONTRACTOR. SEE PLANS FOR ALL LOCATIONS. PROVIDE REMOTE VISIBLE AND AN AUDIBLE SIGNAL ALONG WITH LED BELOW CEILING AS REQUIRED PER 2009 IMC, SECTION 606.4.1 AND NFPA.
2. MECHANICAL CONTRACTOR SHALL FURNISH, INSTALL, AND PROVIDE WIRING TO HVAC UNIT TO SHUT DOWN UNIT UPON DETECTION OF SMOKE. MECHANICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY RELAYS, CONTACTORS, POWER MODULES, ETC. AS NECESSARY TO PROVIDE A COMPLETE OPERATIONAL SYSTEM. COORDINATE WITH ELECTRICAL/FIRE ALARM CONTRACTOR TO VERIFY VOLTAGE REQUIREMENTS, LOCATIONS, ETC..
3. ELECTRICAL/FIRE ALARM CONTRACTOR SHALL PROVIDE WIRING IF FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, THE SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS.
4. SMOKE DETECTORS REQUIRED BY 2009 IMC SECTION 606.3 SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72. DUCT SMOKE DETECTORS REQUIRE A REMOTE LED INDICATOR THRU THE CEILING LEVEL. NFPA 72 3-8.3. DUCT SMOKE DETECTORS SHALL ACTIVATE A VISIBLE AND AUDIBLE SIGNAL AT A NORMALLY OCCUPIED LOCATION AND SHALL BE MONITORED BY THE FACP AND REPORT AS A SUPERVISORY SIGNAL PER NFPA 72 AND THE IMC. DUCT SMOKE DETECTORS TO PROVIDE SHUTDOWN IN 30 SECONDS OR LESS.

A2 DUCT SMOKE DETECTOR CONNECTION DETAIL

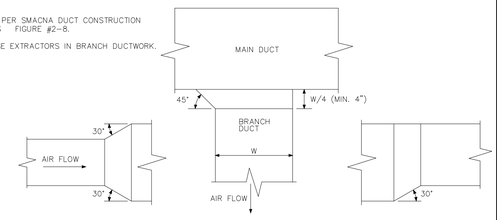


A11 PIPING RAIN HOOD DETAIL

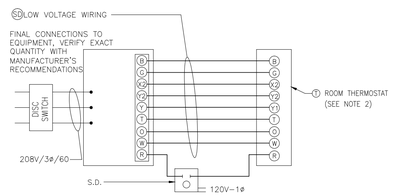
NOTE:

FABRICATE PER SMACNA DUCT CONSTRUCTION STANDARDS FIGURE #2-8.

DO NOT USE EXTRACTORS IN BRANCH DUCTWORK.



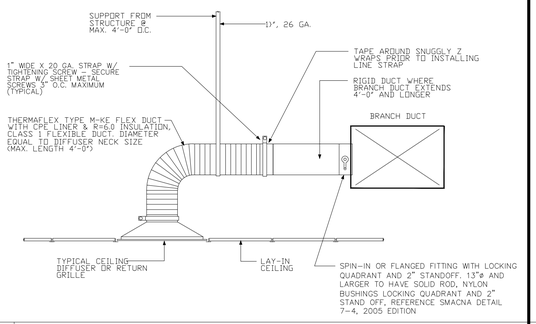
A7 DUCT CONNECTION



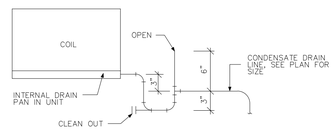
WIRING DIAGRAM NOTES

1. DUCT SMOKE DETECTOR WILL BE FURNISHED AND WIRED INSIDE SUPPLY DUCT. INTERLOCK WIRING WILL BE PROVIDED BY CONTRACTOR.
2. INSTALL ROOM THERMOSTAT CARRIER "DEBONAIR" MODEL 33CS250-FS W/COVER 5-1-1 PROGRAMABLE & HOLIDAYS , 4-HOUR OVERRIDE, OR EQUAL BY HONEYWELL COMPLETE WITH MOUNTING BASE AND KEYS. FIELD INSTALL JUMPER TO FAN SWITCH TERMINALS TO DISABLE THE "FAN AUTO" FUNCTION (FAN WILL RUN CONTINUOUSLY WHENEVER THE SYSTEM SWITCH IS IN THE "ON" POSITION). MOUNT THERMOSTAT AT +4'-0" A.F.F.

A3 TYPICAL A/C WIRING DIAGRAM



A8 DIFFUSER/GRILLE CONNECTION DETAIL



NOTES:

1. CONDENSATE DRAIN LINES SHALL BE GRADED CONTINUOUSLY AND UNIFORMLY TO POINT OF DISCHARGE, MINIMUM OF 1/8" PER FOOT.
2. CONDENSATE DRAINS SHALL BE TYPE "M" HARD DRAWN COPPER TUBING ASTM B-88
3. INSTALL CONDENSATE DRAINS PER MANUFACTURER'S REQUIREMENTS.
4. INSULATE PRIMARY COIL CONDENSATE INSIDE BUILDING IN ACCORDANCE WITH SHEET SPECIFICATIONS

A4 CONDENSATE DRAIN TRAP DETAIL

FOR BID ONLY

Drawing Name: P:\2013\20130780\CAD\Mechanical Construction Documents.dwt MC\Detail and Accessory Connections Sheet\Produced\20130780-M1.1-CS.dwg Last Modified: Jan 19, 2015 - 9:57am Plotted on: Jan 19, 2015 - 1:08pm by alodair

GreenbergFarrow

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
01/19/15	PERMIT SET

PROFESSIONAL SEAL

COLORADO LICENSED PROFESSIONAL ENGINEER
PE 0042633
Signed: 01/19/15

PROFESSIONAL IN CHARGE
ERIC WOLF

PROJECT MANAGER
ALEX ADAIR

QUALITY CONTROL
DARCY HASBERRY

DRAWN BY
ALEX ADAIR

PROJECT NAME

CIRCLE K STORES, INC.

COLORADO SPRINGS COLORADO

E. FOUNTAIN BLVD & ACADEMY PARK LOOP

CIRCLE K STORES INC.

PROJECT NUMBER
20130780

SHEET TITLE
DETAILS

SHEET NUMBER
M1.1-CS