

MECHANICAL PLAN

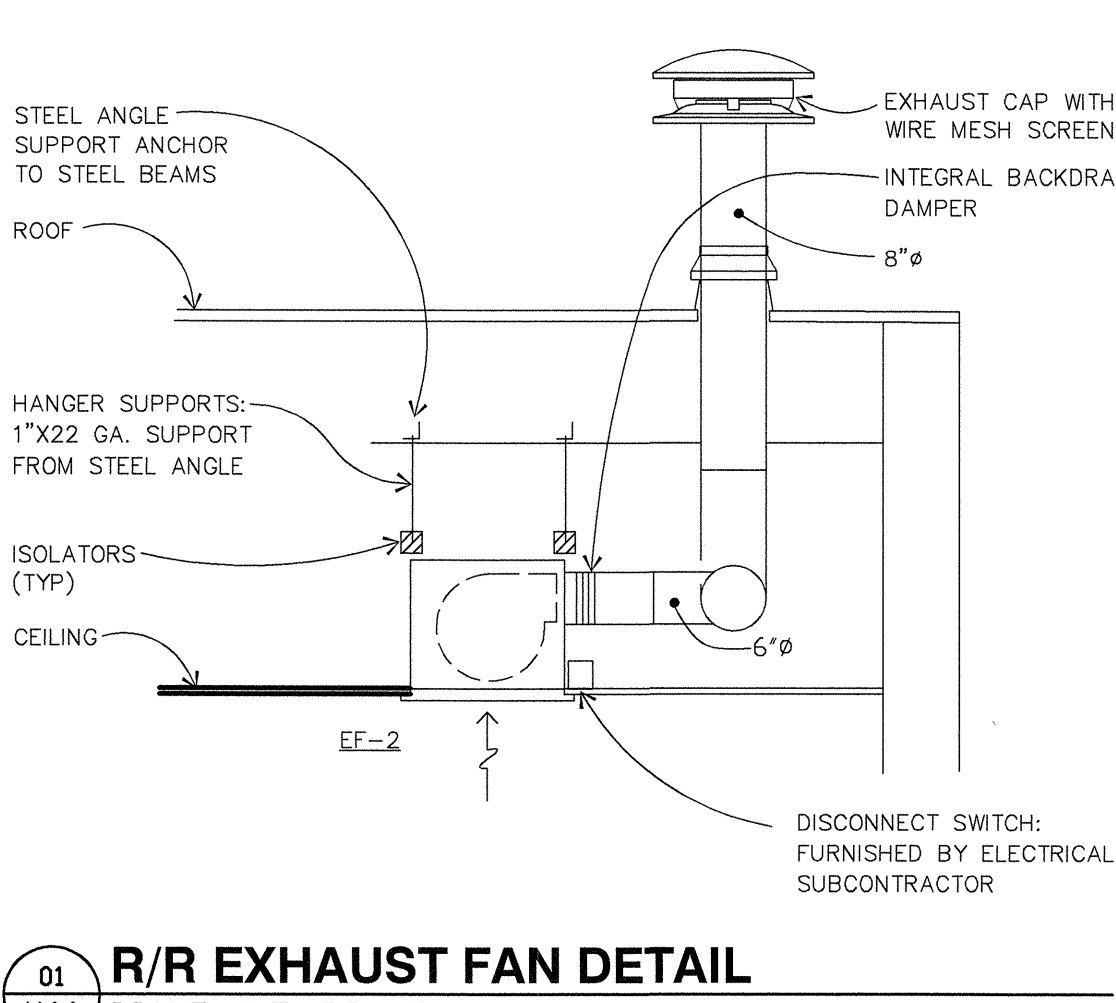


SCALE: 1/4" = 1'

KEYED NOTES:

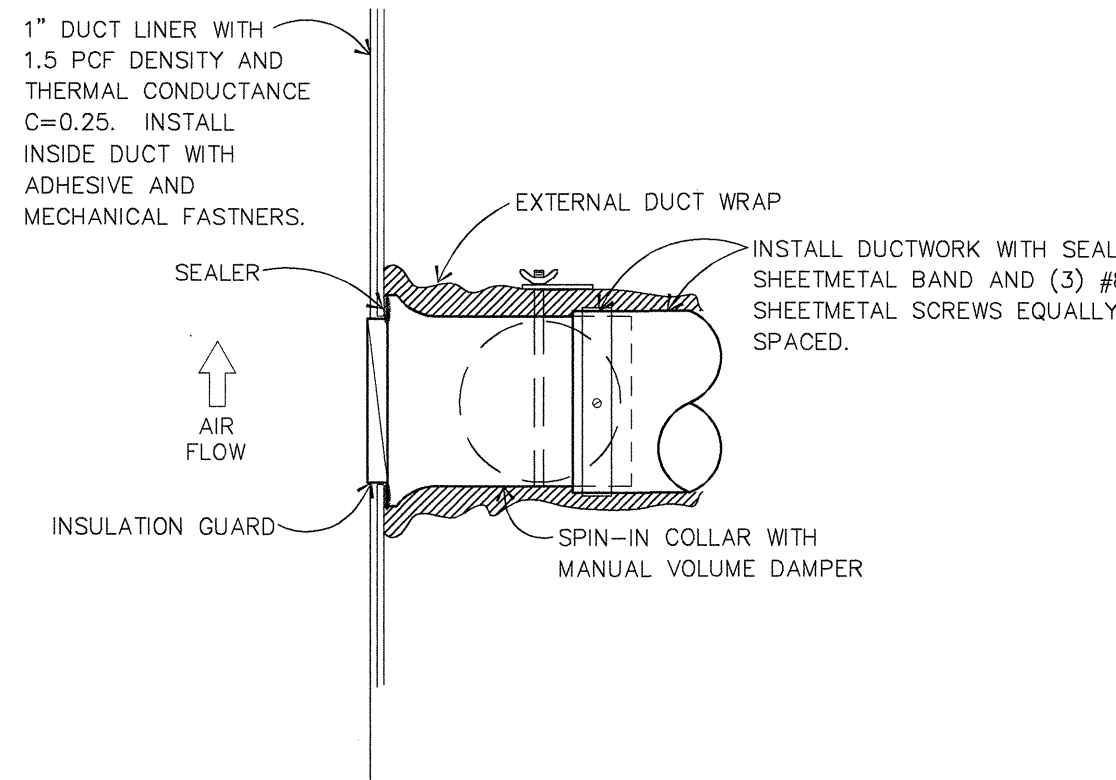
- TURN RETURN DUCTWORK FULLSIZE IN HORIZONTAL TRUSS SPACE. BUILD 22"x46"x10" LINED PLENUM BOX ON RETURN GRILLE. DROP 22"x14" RETURN DUCT FROM MAIN RETURN DUCT TO PLENUM BOX.
- MECHANICAL CONTRACTOR TO TRANSITION 6" DUCTWORK FROM CEILING MOUNTED EXHAUST FANS TO 8" THRU ROOF. REFER TO DETAIL BELOW.
- SMOKE DETECTORS WILL BE PROVIDED WITH CONTROL PACKAGE. MOUNT IN SUPPLY DUCTS. INSTALL INTERLOCK WIRING TO ROOFTOP UNIT TO SHUT DOWN UNIT WHEN SMOKE IS DETECTED.
- PROGRAMMABLE THERMOSTATS IN OFFICE WITH LOCKING COVERS, MOUNT AT +54" A.F.F. VERIFY EXACT LOCATION WITH FIELD REPRESENTATIVE.
- REMOTE SENSOR MOUNTED IN CEILING. WIRE LOW VOLTAGE BACK TO PROGRAMMABLE THERMOSTAT IN OFFICE.
- RETURN AIR DUCT NOT REQUIRED TO BE LINED.
- ROUTE MAIN SUPPLY DUCT TRUNK BETWEEN TRUSSES, COORDINATE WITH ELECTRICAL CONTRACTOR LOCATION AND CLEARANCE REQUIREMENTS FOR LIGHT FIXTURES..
- REMOTE SMOKE DETECTOR ANNUNCIATOR/ALARM STATION TO BE MOUNTED ABOVE T-STAY IN OFFICE.
- BUILD 22"x46"x10" LINED PLENUM BOX ABOVE RETURN GRILLE. DROP 20"x18" ON TOP FROM MAIN.
- MAIN SUPPLY DUCT TO BE INSTALLED WITH 1" LINER.
- PROVIDE DIFFUSER WITH SINGLE SIDE BLANK-OFF FOR 3-WAY DIFFUSER THROW.
- ROUTE DUCT FROM TYPE II HOOD UP THRU ROOF TO FAN. DUCTWORK TO BE GALVANIZED STEEL, 24 GAGE MINIMUM, SEALED LIQUID TIGHT, JOINTS AND SEAMS.
- TYPE II HOOD SHALL BE CONSTRUCTED OF AT LEAST 24 GAGE STEEL AND HOOD SHALL BE SECURED IN PLACE TO RESIST THE LATERAL LOADS FOR SEISMIC ZONE D.

| MECHANICAL OUTSIDE AIR CALCULATIONS TABLE |                 |               |                                |                         |
|---|-----------------|---------------|--------------------------------|-------------------------|
| SPACE                                     | FLOOR AREA (SF) | NO. OCCUPANTS | O.D VENTILATION REQUIRED (CFM) | TOTAL VENTILATION (CFM) |
| RETAIL                                    | 1551            | ---           | .3 CFM / SQUARE FOOT           | 465                     |
| OFFICE                                    | ---             | 1             | 20 CFM / PERSON                | 20                      |
| STORAGE                                   | 42              | ---           | .15 CFM / SQUARE FOOT          | 6.3                     |
|   |                 |               | NET TOTAL                      | 491                     |



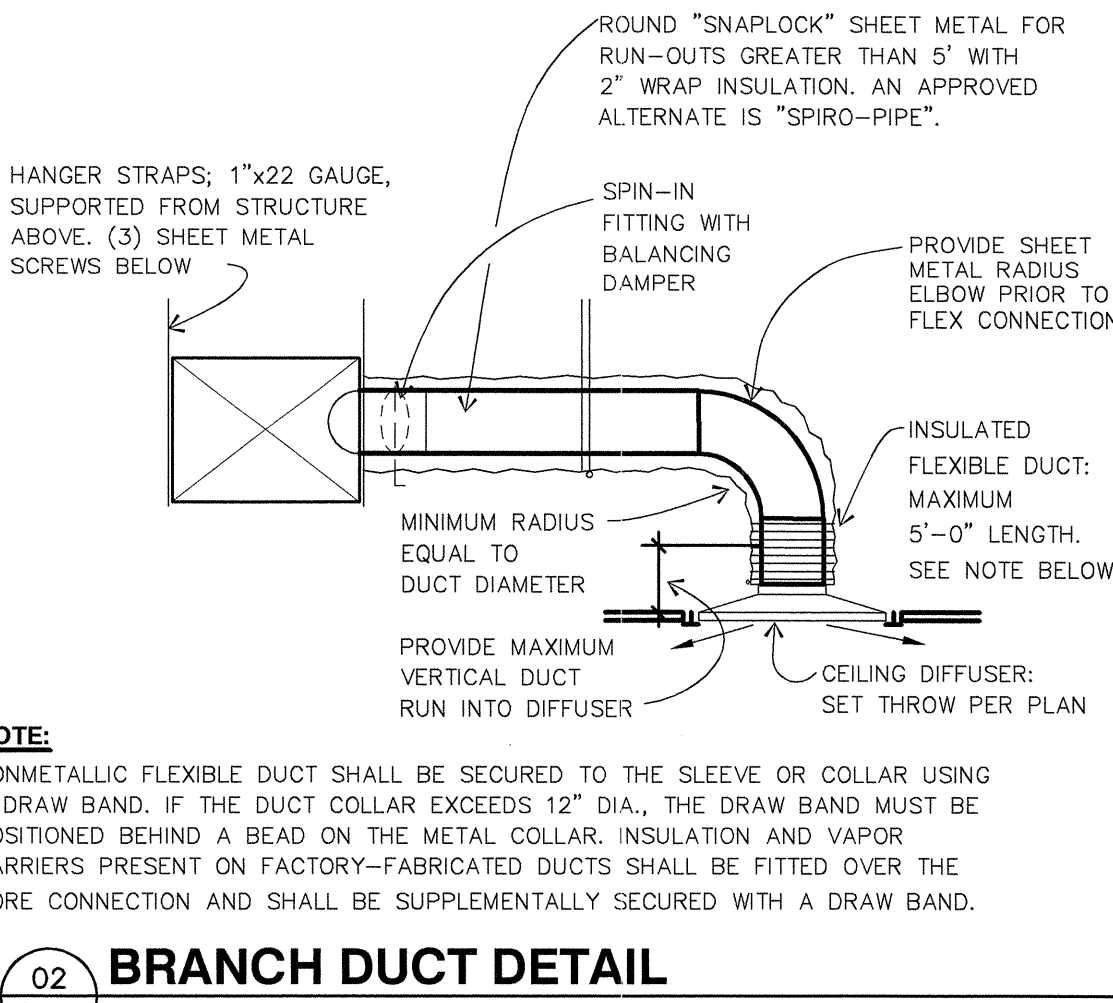
01 R/R EXHAUST FAN DETAIL

M1.1 SCALE: NO SCALE



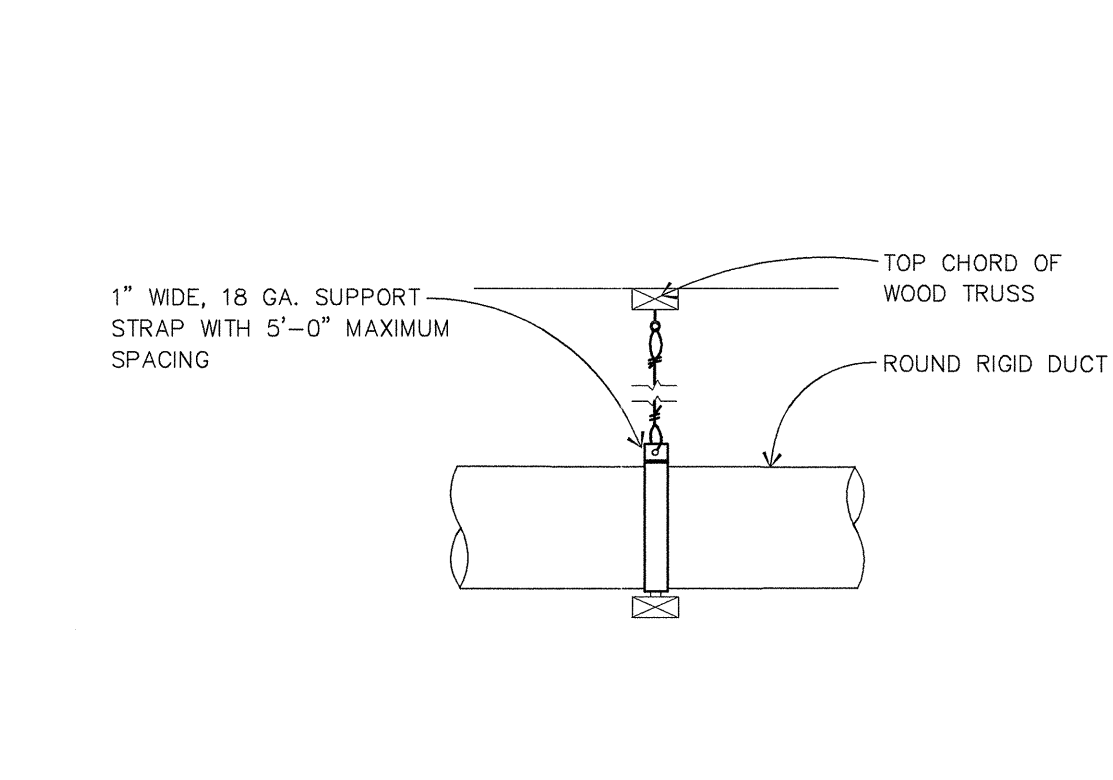
03 FITTING DETAIL

M1.1 SCALE: NO SCALE



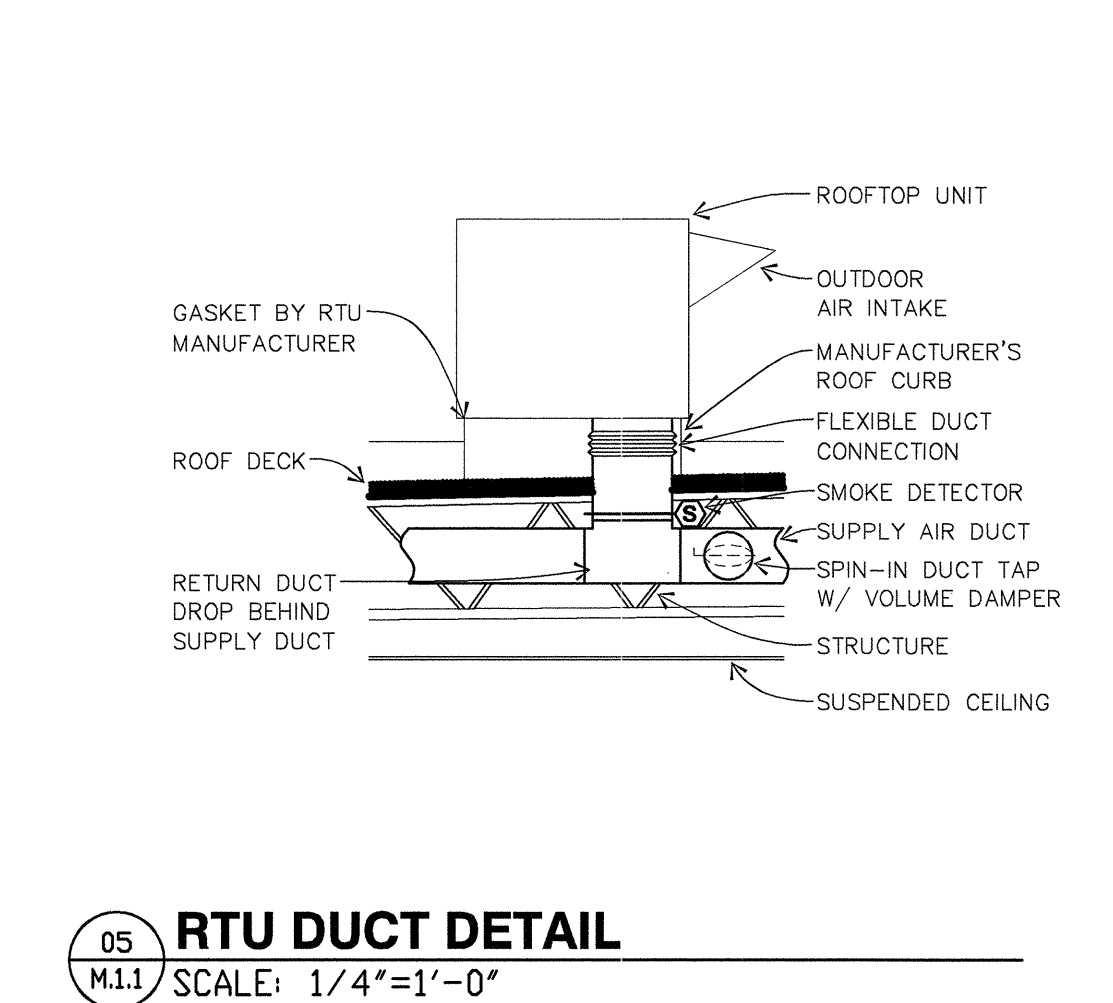
02 BRANCH DUCT DETAIL

M1.1 SCALE: NO SCALE



04 ROUND DUCT SUPPORT DETAIL

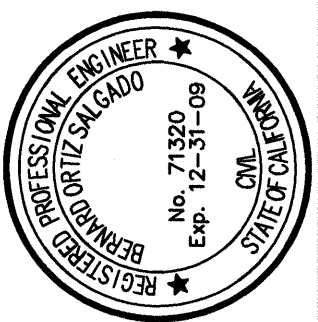
M1.1 SCALE: NO SCALE



05 RTU DUCT DETAIL

M1.1 SCALE: 1/4"=1'-0"

| REV | DATE/DESC |
|-----|-----------|
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|     |           |
|     |           |



THESE PLANS PREPARED UNDER THE DIRECT SUPERVISION OF:  
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Mechanical Plan

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DATE: 03-26-09  
SCALE: AS NOTED  
DRAWN: AA/LJF  
JOB NO: 0734

M-20