

PRELIMINARY
NOT FOR FINAL
CONSTRUCTION

MECHANICAL GENERAL NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.

2. ALL DUCTS TO BE SEALED WITH DUCT SEALANT.

3. ALL SUPPLY AND RETURN DUCT INSIDE BUILDING INSULATION ENVELOPE SHALL BE INSULATED WITH 2" THICK, .75# DENSITY FIBERGLASS WITH VAPOR BARRIER, MINIMUM R5.0.

4. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE MC SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC) AND OTHER TRADES.

5. THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS.

6. EACH RUN-OUT TO A SUPPLY DEVICE SHALL HAVE A BALANCING DAMPER. AXIS OF BALANCING DAMPER SHALL BE PARALLEL WITH THE MAIN DUCT. PROVIDE EXPANDED THROAT 45° TAKEOFFS WHERE SHOWN. PROVIDE BALANCE DAMPERS IN THE RETURN DUCT WHERE SHOWN.

6. BALANCE THE AIR FLOW AS INDICATED. PERFORM THE TESTING AND BALANCING WITH ALL INTERIOR DOORS OPEN, AND OUTSIDE AIR CLOSED AND EXHAUST OFF. AFTER SUPPLY AND RETURN ADJUSTMENTS ARE MADE. OPEN OUTSIDE AIR AND TURN EXHAUST ON. TEST AND BALANCE THE OUTSIDE AIR.

7. THE MC SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS INTERLOCKS, CONTROL WIRING CONDUIT AND POWER WIRING FROM DISCONNECTS TO HIS EQUIPMENT, USING A LICENSED ELECTRICIAN.

8. MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONABLE NOISE AND VIBRATION.

9. ALL SQUARE ELBOWS IN RECTANGULAR DUCT SHALL HAVE SINGLE THICKNESS TURNING VANES WITH TRAILING EDGES. FULL RADIUS ELBOWS MAY BE USED IN PLACE OF SQUARE ELBOWS AND VISA VERSA. ON FULL RADIUS ELBOWS CENTERLINE RADIUS SHALL EQUAL 15% OF DUCT WIDTH.

10. DUCT DIMENSIONS ARE SHOWN INSIDE CLEARANCE. ALL DUCT WORK SHALL BE 24 GA. MIN. STEEL.

11. THE MC SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE ALL EXPOSED EQUIPMENT IN HIS CONTRACT.

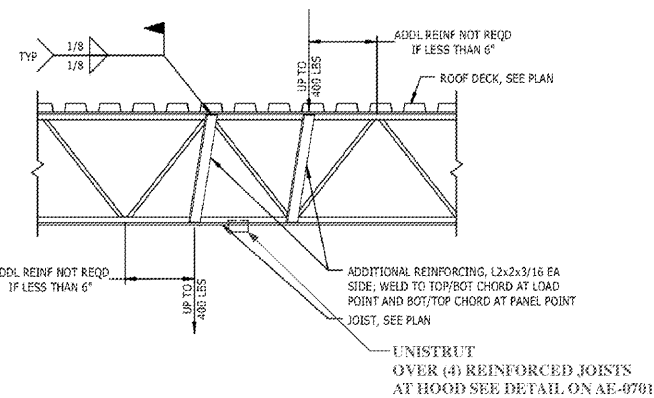
12. THE M.C. SHALL COORDINATE WITH E.C. PROVIDING SPEC. SHEETS TO THE GENERAL AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT. MANUFACTURER'S DOCUMENTATION WILL BE LEFT ON SITE.

13. PROPERLY SUPPORT ALL DUCT WORK. PROVIDE ALL STRUCTURAL SUPPORTS FOR THE LOADS.

14. THE LAST 15' OF A DIFFUSER/RETURN RUN-OUT MAY BE FLEXIBLE DUCT. DO NOT MAKE TURNS WITH FLEXIBLE DUCT USE RIGID (ADJUSTABLE) ELBOWS.

15. DUCT SMOKE DETECTORS SHALL BE MOUNTED IN ALL MAIN RETURN LINES UPSTREAM OF THE OUTSIDE AIR CONNECTION. ACTIVATION OF THE SMOKE DETECTOR SHALL SHUT DOWN TECH AIR DISTRIBUTION SYSTEM AND ACTIVATE A VISUAL AND AUDIBLE ALARM. LOCATE AS SHOWN OR DIRECTED. SMOKE DETECTOR TROUBLE CONDITIONS SHALL ACTIVATE A VISUAL OR AUDIBLE SIGNAL IDENTIFIED AS AIR DUCT DETECTOR TROUBLE. LOCATED AS SHOWN OR DIRECTED.

16. PROVIDE 7 DAY PROGRAMMABLE THERMOSTATS FOR EACH HVAC UNIT. EACH THERMOSTAT SHALL INCLUDE NIGHT SET BACK FOR HEATING. -- IN THE HEATING MODE THE THERMOSTAT SHALL NOT ENERGIZE THE AUXILIARY ELECTRIC HEAT IF TECH HEAT PUMP MODE CAN MEET THE DEMAND. SUCH AS WARM UP GOING FROM NIGHT SET BACK TO OCCUPIED MODE. AN ADJUSTABLE OUTDOOR THERMOSTAT MAY BE USED TO LOCK OUT RESISTANCE HEAT ABOVE SET POINT. INITIALLY SET @ 35°F. THERMOSTAT SHALL HAVE TEMPORARY OVER-RIDE. --INDOOR FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE AND SHALL CYCLE WITH DEMAND DURING NIGHT SETBACK. -- LOCATE AS SHOWN.

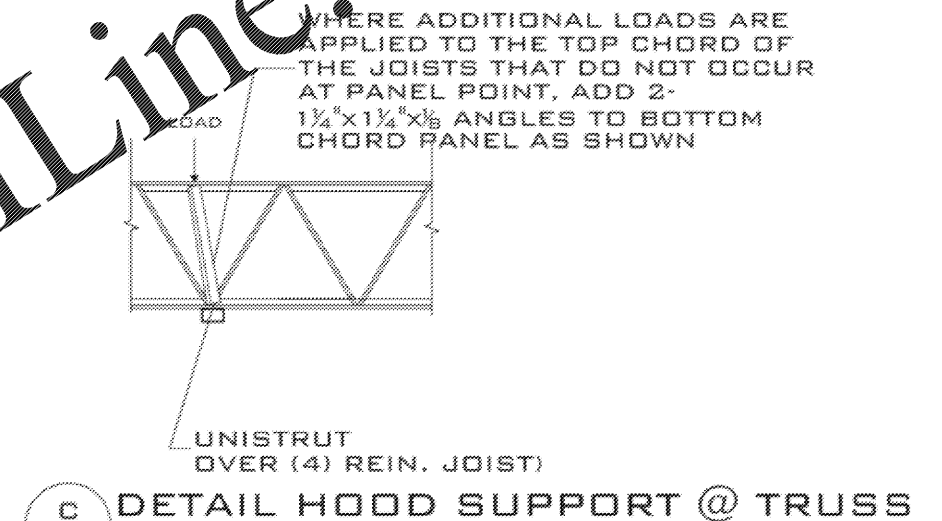


A DETAIL
TYPICAL REINFORCING FOR CONCENTRATED LOADS ON STEEL JOISTS

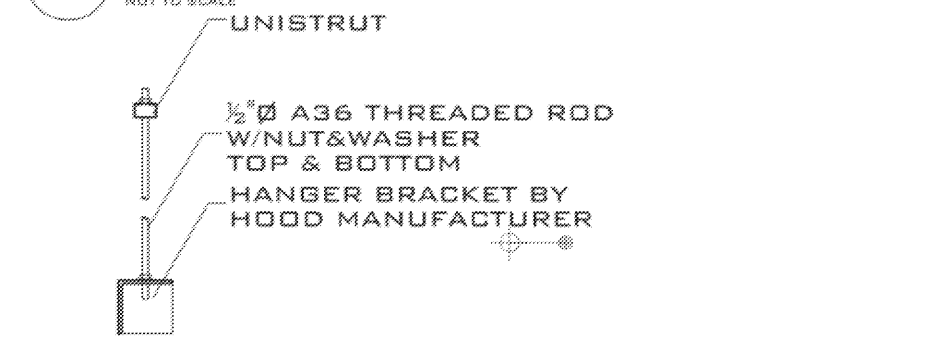
- NOTES:
- WHERE POSSIBLE, ALL LOADS ARE TO BE SUPPORTED FROM PANEL POINTS. WHERE NOT POSSIBLE, PROVIDE REINFORCEMENT AS DETAILED.
 - LOADS LESS THAN 150 LBS REQUIRE NO ADDITIONAL REINFORCING. LOADS LARGER THAN 400 LBS PER JOIST REQUIRE SPECIAL SUPPORT CONDITIONS TO BE APPROVED BY THE ENGINEER OF RECORD.
 - BOTTOM CHORDS EXTENDING UNSUPPORTED PAST THE FIRST BOTTOM PANEL POINT TOWARD JOIST BEARING LOCATION ARE NOT TO BE USED TO SUPPORT ANY LOAD WITHOUT WRITTEN PERMISSION FROM THE ENGINEER OF RECORD.

STRUCTURAL MODIFICATION OF EXISTING DECK
TO ACCOMMODATE HOOD OPENINGS
FINAL DESIGN TO BE REVIEWED AND APPROVED
BY LANDLORD'S STRUCTURAL ENGINEER

Hood is hung with 12g unistrut and 1/2" threaded rod
Hood details will have weights on them for each component of the hood
The hood without a plenum weighs 589 lbs.
The exhaust fan with curb weighs 125 lbs
The hood will be hung with 1/2" threaded rods
attached to 12 gauge heavy duty unistrut hangers.
The exhaust curb will be screwed into the roof deck as prescribed by
exhaust fan provider and the fan will sit on top of it.
There will need to be structural framing under the deck as shown above
to support the exhaust fan and curb.



C DETAIL
DETAIL HOOD SUPPORT @ TRUSS



D DETAIL
DETAIL HOOD SUPPORT