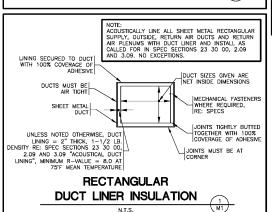


INSULATION HANGER SHIELD



TURNING VANES

HVAC OUTDOOR AIR REQUIREMENTS

MECHANICAL CODE REFERENCE:
FOR REQUIRED OUTDOOR VENTILATION AIR IN RETAIL - "SALES/STORAGE"

SHOWROOM = 3311 SQUARE FEET 2. HARD PARTS = 3803 SQUARE FEET

3311 (SQUARE FEET) ÷ 1000 (SQUARE FEET) = 3.3110 3.3110 x 15 (PERSONS/1000 SQUARE FEET) = 50 PERSONS (CFM/ PERSON x PERSONS) + (CFM/SQUARE FEET x SQUARE FEET) = CFM

 $(7.5 \times 50) + (.12 \times 3311) = 769.81$ CFM OF OUTSIDE AIR REQUIR

769.81 ÷ .8 (EFFECTIVENESS) = 962.26 CFM

HARD PARTS (STORAGE ROOM)

3803 x .12 (CFM/SQUARE FEET) = 456.36 CFM OF OUTSIDE AIR REQUIR

456.36 ÷ .8 (EFFECTIVENESS) = 570.45 CFM

962 CFM + 570 CFM = 1533 TOTAL CFM

TOTAL OUTSIDE AIR MINIMUM REQUIRED BY CODE: OUTSIDE AIR SPECIFIED ON PLAN SHEET M1:

HVAC SYSTEMS TESTING & BALANCING

THE HVAC SYSTEM SHALL BE TESTED AND BALANCED (T&B) BY THE CONTRACTOR PER SPEC SECTION: 23 05 93 AND IN ACCORDANCE WITH THE PROCEDURES OF AABC OR NEBB. CONTRACTOR SHALL SUBMIT WRITTEN T&B REPORTS TO THE OWNER. SINCE THIS O'REILLY STORE IS LESS THAN 50,000 SQ. FT. THEN SYSTEM COMMISSIONING IS NOT REQUIRED PER ASHRAE 90.1.

SEISMIC RESTRAINTS (ONLY REQUIRED FOR SEISMIC **DESIGN CATEGORIES C,D,E,F)**

CONTRACTOR TO REFER TO **ARCHITECTURAL SHEET G1.1** FOR SEISMIC DESIGN CATEGORY.

IF REQUIRED SEE SEISMIC DETAILS SHEET ME1.

HVAC - KEYNOTES

- 12"x12" DUCT WITH ELBOW FROM "R2" TO JUST ABOVE THE
- 2 WALL CAP 500 CFM EXHAUST. ARCHITECTURAL ELEVATIONS SHOW DIMENSIONED LOCATION.

HVAC ROOF BRACING CONFLICTS

CONTRACTOR TO FIELD VERIFY ROOF'S HORIZONTAL ROD BRACING .OCATIONS. IF NECESSARY, SHIFT ROOFTOP UNITS AND DUCTS AS REQUIRED TO AVOID CONFLICT WITH BRACING.

OUTSIDE AIR SETUP:

TRACTOR TO SET DAMPERS AS FOLLO ONOMIZER MODE MAXIMUM CFM PER UNIT 5 TON RTU = 3,000 TON RTU = 2,000

MINIMUM OUTSIDE AIR CFM PER ROOFTOP UNIT (TYPICAL) = 384 DURING OCCUPIED HOURS ONLY.

HVAC GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH THE INTERT OF THE PLANS, WHETHER OR NOT EVERY ELEMENT THEREOF IS SPECIFICALLY CALLED OUT.
- DUCT DIMENSIONS ON PLANS ARE TO BE FINISHED INSID SHEET.
 THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING
 CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO
 EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING
 CONDITIONS

CONDITIONS
ALL ROOF AND WALL PENETRATIONS REQUIRED SHALL BE
COORDINATED WITH THE GENERAL CONTRACTOR. PROVIDE
ALL SLEEVES, FLASHING, CURBS, REINFORCING ANGLES,
SUPPORTING FRAMES, ETC., WHICH ARE REQUIRED UNILES!
THEY ARE, SPECIFICALLY CALLED OUT TO BE FURNISHED.

THEY ARE SPECIFICALLY CALLED OUT TO BE FURNISHED BY OTHERS.
A SUBMITTAL OF ALL MATERIALS AND EQUIPMENT PROPOSED TO BE USED ON THE JOB SHALL BE PREPARED AS SOON AS POSSIBLE AFTER AWARD OF THE CONTRACT. THE SUBMITTAL WILL BE REVIEWED BY THE OWNER FOR EQUAL QUALITY AND PERFORMACE TO THE ITEMS SPECIFIED. ALL CONTROL DEVICES SHALL BE INCLUDED IN THE SUBMITTAL.
THE PROPER PERFORMANCE OF THE CONTROL SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL COPERATE AND COORDINATE HI WORK WITH THE WORK OF OTHER SUBCONTRACTORS OF THE PROJECT.COORDINATION DOES NOT MEAN "I WAS HERE FIRST".

- DUCT DIMÉNSIONS ON PLANS ARE TO BE FINISHED INSIDI DIMENSIONS.

 DUCT MATERIALS SHALL BE AS FOLLOWS:

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 SHOUND SUPPLY AIR DUCT (SPEC 23 30 00)

 RECTANGULAR SUPPLY AND RETURN AIR DUCT WORK —

 (SPEC 23 30 00) INSTALL TURNING VANES IN ALL ELBOWS.

 PUNDUIS 10 DIPFLISERS (SPEC 23 30 00) (SEE DIPFLISER INSTALLATION DETAILS, 20 00)

 TEAMSTIDIOS SHALL CONFORM TO SMACMA STANDARDS.

 INSULATE HAVE CONDENSATE DRAIN PIPING WITH 1/2"

 ARMAFLEX.

 2. ALL WORK IS TO BE GUARANTEED FOR ONE YEAR UPON OCCUPANCY.

- OCCUPANCY.

 NO EQUIPMENT OR FIXTURE SUBSTITUTIONS (THAT ARE NOT CURRENTLY LISTED) WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER.

 JUPON COMPLETION BALANCE SYSTEMS TO AIR FLOWS SHOWN. REPORT THE BALANCING MEASUREMENTS ON THE "AS BUILT" DRAWNES.

 MOUNT CONDENSATE AND REFRIGERANT LINES AS HIGH AS PORSSING
- MOUNT CONDENSATE AND REFRIGERANT LINES A
 AS POSSIBLE.
 CONTROL WIRING BY HVAC CONTRACTOR, FINAL
 CONNECTIONS BY HVAC CONTRACTOR.

- 7. ALL CAULKING ON BUILDING PENETRATIONS SHALL BE ONE—COMPONENT NON—SAG URETHANE ELASTOMERIC SEAJANT. ANY CONTRACTOR WHO USED SILICONE OR ANY OTHER CAULKING WILL BE REQUIRED TO REMOVE AND REPLACE WITH A SPECIFICE SEAJANT (SPEC) OF \$
- 00).
 THE HVAC SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH NFPA 101:7-2 and NFPA 90A "STANDARD FOR THE INSTALLATION OF AIR CONDITIONING
- AND VENTILATION SYSTEMS".

 ALL HVAC SYSTEM FLUES & VENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NFPA 54 (LATEST
- EDITION).

 PROVIDE AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) COVERING OF DUCT OPENINGS AND PROTECTION OF



STORE **PARTS**

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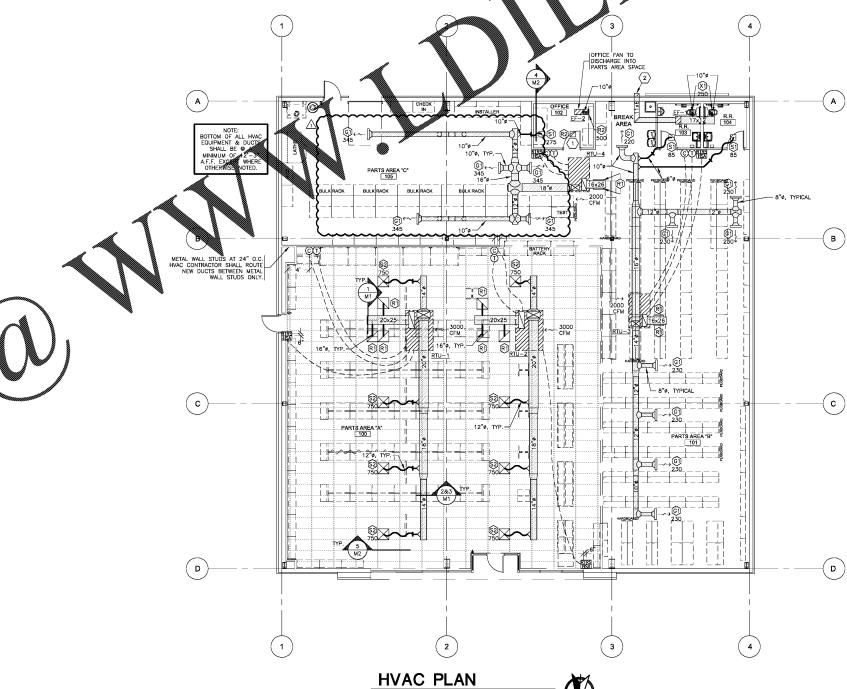
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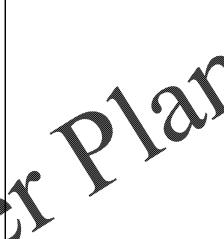
ADD001 10/24/18

YUL

SHEET NUMBER



SCALE: 1/8" = 1'-0"



HVAC LEGEND SUPPLY DIFFUSER (4 WAY) SUPPLY DIFFUSER (1 WAY) RETURN AIR GRILLE EXHAUST REGISTER RECTANGULAR OR ROUND DUCT ROUND DUCT FLEXIBLE DUCT (MAX. LENGTH = 8'-0") NOTE...LOCATION OF FLEX DUCT SHALL BE ONLY AS INDICATED ON PLAN VIEW DRAWIN 1" CONDENSATE PIPING AIR FLOW INDICATOR SADDLE TAP FITTING (WITH DAMPER) COMMUNICATION CABLE