

EXHAUST FAN SCHEDULE								
NO.	SERVICE	LOCATION	TYPE	CFM	SP IN WG	AMPS	WATTS	REMARKS
EF-1	TOILET EXHAUST	CEILING	CABINET IN-LINE	75	0.5	1.14	80	GREENHECK SP-B NOTES: 1,4,7,10,13

NOTES: 1) BIRDSCREENS, 2) PREFAB CURB, 3) DIRECT DRIVE, 4) DISCONNECT, 5) BACKDRAFT DAMPER, 6) MOTORIZED DAMPER, 7) INLET GRILLE 8) SOLID STATE VARIABLE SPEED SWITCH, 9) THERMOSTAT CONTROLLED, 10) CONTROLLED W/ LIGHT SWITCH, 11) ROOF VENT CAP (GREENHECK RDSP) 12) INTERLOCKED W/ RTU'S 13) WALL DISCHARGE LOUVER

SUPPLY DIFFUSER SCHEDULE				
DESIGNATES LABEL FOR DIFFUSER TYPE				ALL DIFFUSERS ARE TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.
DESIGNATES CFM QUANTITY FOR DIFFUSER				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS OMNI - WHITE (PRIMED & PAINTED TO MATCH CEILING)	6"	0 - 125	1, 2, 3, 4, 5, 6
B	TITUS OMNI - WHITE (PRIMED & PAINTED TO MATCH CEILING)	6"	0 - 125	1, 2, 3, 4, 5, 6
C	TITUS OMNI - WHITE (PRIMED & PAINTED TO MATCH CEILING)	8"	130 - 200	1, 2, 3, 4, 5, 6
D	TITUS OMNI - WHITE (PRIMED & PAINTED TO MATCH CEILING)	10"	205 - 355	1, 2, 3, 4, 5, 6
E	TITUS OMNI - WHITE (PRIMED & PAINTED TO MATCH CEILING)	12"	360 - 650	1, 2, 3, 4, 5, 6

- REMARKS:
- PROVIDE MANUAL VOLUME DAMPER AS SHOWN ON PLAN.
  - FIELD ADJUST AIR PATTERN AS SHOWN ON PLAN.
  - GRILLE SHALL BE INSTALLED WITH 35 DEGREE BLADE DEFLECTION FACING UP, TO PREVENT VIEW THRU DEVICE
  - FURNISH & INSTALL T-BARS ON ALL FOUR (4) SIDES OF AIR DEVICE AT LAY-IN AREAS
  - FIELD PRIME & PAINT TO MATCH CEILING COLOR
  - SEE HVAC PLANS FOR ADDITIONAL INFORMATION.

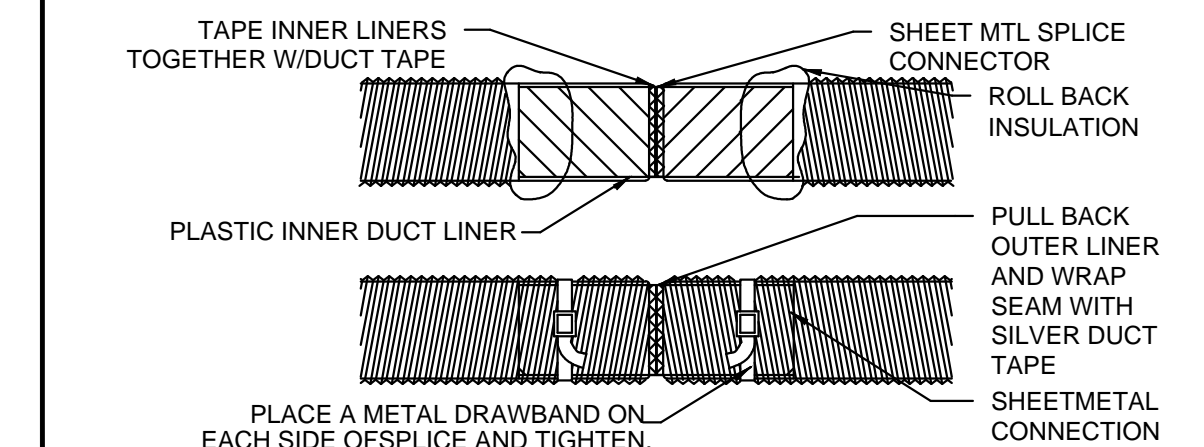
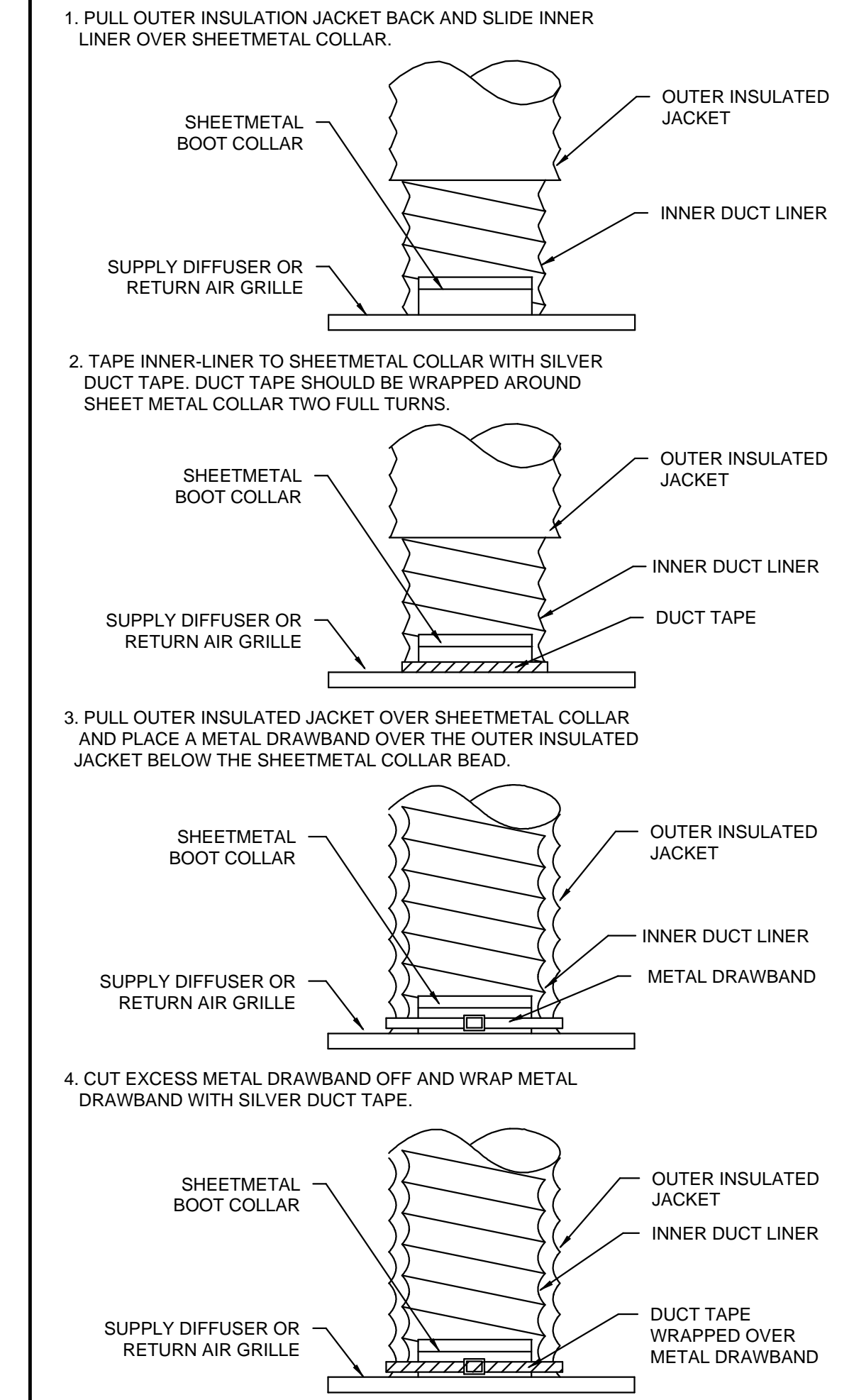
RETURN GRILLE SCHEDULE				
DESIGNATES LABEL FOR DIFFUSER TYPE				DESIGNATES CFM QUANTITY FOR DIFFUSER
DESIGNATES CFM QUANTITY FOR DIFFUSER				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 350RL - WHITE (PRIMED & PAINTED TO MATCH CEILING)	6"	0 - 125	1, 2, 3
2	TITUS 350RL - WHITE (PRIMED & PAINTED TO MATCH CEILING)	6"	0 - 125	1, 2, 3
3	TITUS 350RL - WHITE (PRIMED & PAINTED TO MATCH CEILING)	8"	130 - 220	1, 2, 3
4	TITUS 350RL - WHITE (PRIMED & PAINTED TO MATCH CEILING)	10"	225 - 360	1, 2, 3
5	TITUS 350RL - WHITE (PRIMED & PAINTED TO MATCH CEILING)	12"	365 - 600	1, 2, 3
6	TITUS 350RL - WHITE (PRIMED & PAINTED TO MATCH CEILING)	14"	605 - 850	1, 2, 3
7	TITUS 350RL - WHITE (PRIMED & PAINTED TO MATCH CEILING)	16"	855 - 1395	1, 2, 3
8	TITUS 350RL - WHITE (PRIMED & PAINTED TO MATCH CEILING)	16"x16"	1400 - 2000	1, 2, 3

- REMARKS:
- FURNISH & INSTALL T-BARS ON ALL FOUR (4) SIDES OF AIR DEVICE AT LAY-IN AREAS
  - FIELD PRIME & PAINT TO MATCH CEILING COLOR
  - SEE HVAC PLANS FOR ADDITIONAL INFORMATION.

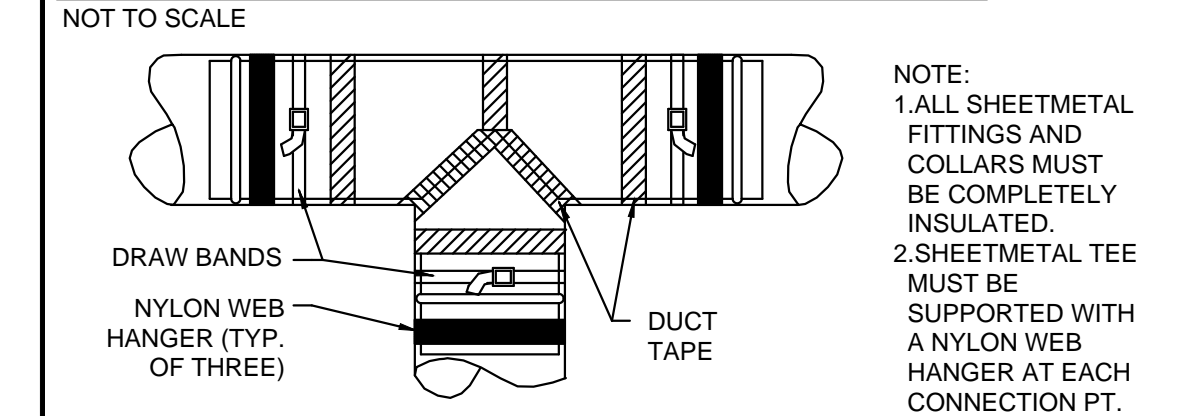
### GENERAL MECHANICAL NOTES

- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, THE APPLICABLE BUILDING CODE (2012 IRC & 2012 VEC) AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS: SMACNA, ASHRAE, NFPA 90A, 90B, 91 & ANSI B-9.1. MECHANICAL REFRIGERATION: ALL DUCTWORK SHALL BE FABRICATED, INSTALLED AND SUPPORTED AS PER SMACNA STANDARDS.
- THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES, TO INSURE AN ORDERLY PROGRESS OF THIS WORK.
- THE CONTRACTOR SHALL SUPPLY THE ARCHITECT WITH "AS-BUILT" DRAWINGS UPON COMPLETION OF THIS PROJECT.
- CONTRACTOR SHALL SUBMIT FIVE (5) COPIES OF MANUFACTURER'S DRAWINGS FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT.
- ALL MATERIAL SHALL BE NEW AND OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY SKILLED WORKMEN.
- ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE EXTERNALLY INSULATED GALVANIZED SHEET STEEL. INSULATION SHALL BE A MINIMUM OF 2" THICK PROVIDING A R-6 VALUE OR HIGHER.
- ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS.
- DUCT SIZES SHOWN ARE INSIDE DIMENSIONS (FREE AREA). THE CONTRACTOR MAY, AT HIS OPTION, USE ALTERNATE SHAPED DUCT OF EQUIVALENT SIZE (FREE AREA) WITH CONSTRUCTION OF SAME PER LATEST SMACNA DUCT CONSTRUCTION STANDARDS. ALL FLEXIBLE DUCT SHALL BE LIMITED TO 8 FEET IN LENGTH AND USED ONLY FOR RUNOUTS TO DIFFUSERS. FLEX DUCT SHALL BE UL-181 LISTED.
- ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE AS SPECIFIED. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS. DIFFUSERS, REGISTERS AND GRILLES LOCATED IN FIRE RATED WALLS AND/OR CEILINGS SHALL BE STEEL CONSTRUCTION.
- THERMOSTAT SHALL BE 7 DAY PROGRAMMABLE TYPE, WITH SYSTEM 'COOL-AUTO-HEAT-OFF' AND FAN 'ON-AUTO' SELECTOR SWITCHES. PROVIDE HONEYWELL OR EQUAL.
- ALL BRANCH TAKE-OFFS TO BE PROVIDED W/MANUAL VOLUME DAMPERS. ALL ELBOWS AND TEES MUST BE FURNISHED W/TURNING VANES. PROVIDE 45 DEGREE BRANCH TAKE-OFF AS PER BRANCH DUCT TAKE-OFF DETAIL.
- PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE STARTING THEM. REPLACE THEM PRIOR TO FINAL ACCEPTANCE BY OWNER.
- PROVIDE SMOKE DETECTORS WITH ACCESS DOORS IN ALL RETURN AIR DUCTS FOR FANS AND AHUS SERVING A COMMON PLENUM OF 2000 CFM OR ABOVE. ALL SMOKE DETECTORS SHALL BE BY ONE MANUFACTURER, COORDINATE VOLTAGE ETC. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING. UPON DETECTION, SMOKE DETECTORS SHUT DOWN ASSOCIATED AIR MOVING EQUIPMENT AND ALL AIR MOVING EQUIPMENT SERVING THAT COMMON PLENUM.
- PROVIDE TYPE "B" FIRE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING FIRE RATED WALLS, MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, TENANT SEPARATION PARTITIONS, FLOOR OR ROOF SLABS AND AT O/A INTAKES. PROVIDE RADIATION DAMPERS IN RATED CEILINGS FOR ALL CEILING OPENINGS, CEILING FANS, DIFFUSERS OR GRILLES RATED FOR USE IN THE CEILING ASSEMBLY.
- HVAC CONTRACTOR SHALL PROVIDE A TEST AND BALANCE REPORT, FOR ALL MECHANICAL EQUIPMENT, AIR DEVICES, DAMPERS, AHUS AND FANS. THE T & B SHALL BE IN ACCORDANCE WITH THE AIR BALANCE COUNCIL STANDARDS, AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLES, RETURN GRILLES AND EXHAUST GRILLES, AND THE LEAVING AND ENTERING AIR TEMPERATURE (W) FROM SUPPLY GRILLES AND EVAPORATORS.
- THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ARCHITECT BEFORE INSTALLATION.
- ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50.
- MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCH. PLUMBING, ELECTRICAL AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- NO COMBUSTIBLE MATERIALS ARE ALLOWED IN RETURN AIR PLENUMS OR ABOVE CEILINGS USED AS RETURN AIR PLENUM. IF SPACE WITH RETURN AIR PLENUM HAS ANY DECK, TO DECK PARTITIONS, AIR TRANSFER DUCTS MUST BE INSTALLED.
- REFER TO PLUMBING PLANS FOR ALL CONDENSATE PIPING.
- CONTRACTOR SHALL INSTALL ALL OUTDOOR EQUIPMENT TO WITHSTAND SUSTAINED WIND LOADING FORCES AS REQUIRED BY LOCAL CODES.
- PROVIDE ALL NECESSARY CONTRACTORS, RELAYS, ETC., FOR A COMPLETE OPERATING A/C UNIT.
- THROUGHOUT THE COURSE OF THE WORK, MINOR CHANGES AND ADJUSTMENTS TO THE PLANS AND SPECIFICATIONS MAY BE REQUESTED BY THE TENANT. THE CONTRACTOR SHALL MAKE SUCH ADJUSTMENTS WITHOUT ADDITIONAL COST TO THE TENANT, WHERE SUCH ADJUSTMENTS ARE NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE SYSTEMS, AND WITHIN THE INTENT OF THE CONTRACT DOCUMENTS.
- IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO FORM A GUIDE FOR A COMPLETE INSTALLATION. EVERYTHING NECESSARY FOR THE COMPLETION AND SUCCESSFUL OPERATION OF THE WORK, WHETHER OR NOT HEREBY SPECIFIED OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED AS WELL AS AS FASTIDIOUSLY AS IF SO SPECIFIED OR INDICATED WITHOUT ADDITIONAL COST TO THE TENANT. THE MECHANICAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LENGTHS PRIOR TO INSTALLATION.
- NOTWITHSTANDING ANY OTHER PROVISIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR BEARS ULTIMATE RESPONSIBILITY FOR COMPLIANCE OF THE INSTALLATION WITH THE REQUIREMENTS OF THE LANDLORD AND OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- IF ANY ERRORS, DISCREPANCIES OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH ERROR OR OMISSION. IN THE EVENT OF THE CONTRACTOR FAILING TO GIVE SUCH NOTICE BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK, HE WILL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS, DISCREPANCIES OR OMISSIONS AND THE COST OF RECTIFYING SAME.

### FLEX DUCT CONNECTION TO DIFFUSER, GRILLES AND SHEETMETAL PLENUM COLLARS



### FLEXIBLE DUCT SPLICING DETAIL



### SHEETMETAL TEE INSULATION DETAIL

NOT TO SCALE



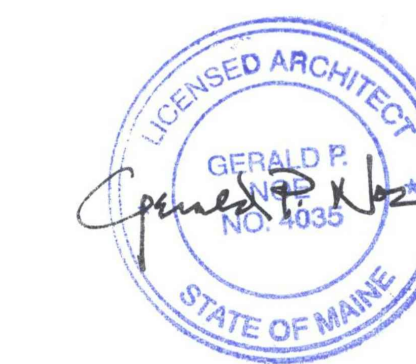
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DATE: 2017-09-21

### REVISIONS:

NO. DATE DESCRIPTION BY

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### PROJECT NAME:



### INTERIOR UP-FIT

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477 FORE STREET - SUITE 128  
PORTLAND, MAINE 04101

### SHEET TITLE:

# MECHANICAL NOTES & DETAILS

PROJECT NUMBER: 17-A094

DATE: 2017-09-21

SHEET NO.

# AM-2

SHEET 3 OF 3

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