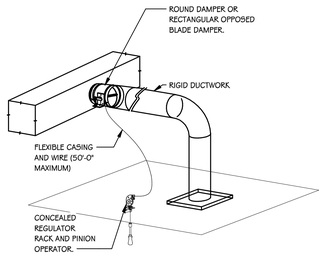
NOTES:

1. THE CABLE CONTROL SYSTEM IS DESIGNED TO BE IMBEDDED FLUSH WITH THE FINISHED SURFACE.
2. CABLE SHALL CONSIST OF 0.054" STAINLESS STEEL CONTROL WIRE ENCAPSULATED IN 1/16" FLEXIBLE GALVANIZED SPIRAL WIRE SHEATH.
3. LOCKING RACK AND PINION GEAR DRIVE SHALL BE CONSTRUCTED OF 14 GAUGE STEEL AND SHALL BE USED TO CONVERT ROTARY MOTION INTO PUSH-PULL MOTION.
4. CONTROL SHAFT SHALL BE "D"-STYLE FLATTENED 1/4" DIAMETER WITH 265° ROTATION PROVIDING 1 1/2" LINEAR TRAVEL CAPABILITY.
5. IF CONTRACTOR CHOOSES TO INSTALL ACCESS DOORS IN LIEU OF CABLE CONTROL, MECHANICAL CONTRACTOR MUST SUBMIT LOCATION AND SIZES OF ACCESS DOORS TO ARCHITECT FOR APPROVAL.

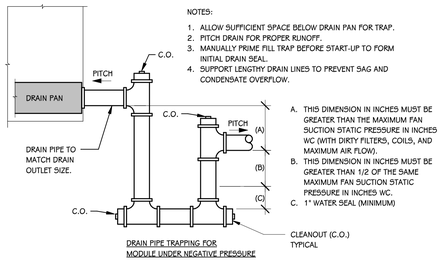


REMOTE CABLE OPERATED DAMPER

SCALE: NONE

NOTES:

1. ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP.
2. PITCH DRAIN FOR PROPER RUNOFF.
3. MANUALLY PRIME P1LL TRAP BEFORE START-UP TO FORM INITIAL DRAIN SEAL.
4. SUPPORT LENGTHY DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.

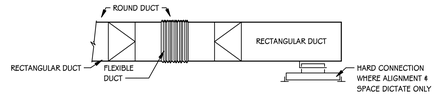


A. THIS DIMENSION IN INCHES MUST BE GREATER THAN THE MAXIMUM FAN SUCTION STATIC PRESSURE IN INCHES WC (WITH DIRTY FILTERS, COILS, AND MAXIMUM AIR FLOW).
B. THIS DIMENSION IN INCHES MUST BE GREATER THAN 1/2 OF THE SAME MAXIMUM FAN SUCTION STATIC PRESSURE IN INCHES WC.
C. 1" WATER SEAL (MINIMUM)

DRAIN PIPE TRAPPING FOR MODULE UNDER NEGATIVE PRESSURE

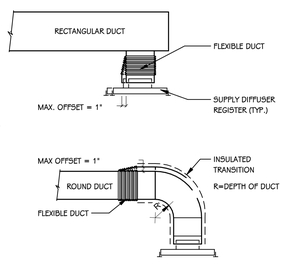
CONDENSATE TRAP DETAIL

SCALE: NONE



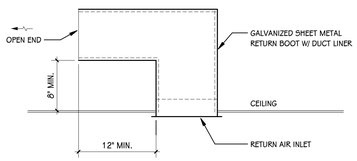
NOTES:

1. THE CEILING SUSPENSION SYSTEM MUST SUPPORT THE DIFFUSER WEIGHT WHEN FLEXIBLE CONNECTIONS ARE USED. ON SURFACE MOUNTED DIFFUSER APPLICATIONS, CUT PROPERLY SIZED HOLE IN THE ACOUSTICAL CEILING PANEL. THE DIFFUSER SHALL NOT SUPPORT THE ACOUSTIC CEILING.
2. PROVIDE INSULATED TRANSITION ROUND TO SQUARE IF REQUIRED AT DIFFUSER.
3. FLEXIBLE DUCTWORK GREATER THAN 10-INCH DIAMETER, INSTALLED IN 1-INCH W.G. OR GREATER SMACNA PRESSURE CLASSIFIED DUCTWORK, SHALL BE ATTACHED TO RIGID GALVANIZED STEEL DUCTWORK WITH STAINLESS STEEL DRAW BANDS. FLEXIBLE DUCTWORK 10-INCH DIAMETER OR LESS, INSTALLED IN 1-INCH W.G. SMACNA PRESSURE CLASSIFIED DUCTWORK, MAY BE ATTACHED TO RIGID GALVANIZED STEEL DUCTWORK WITH NYLON CABLE TIE.
4. FLEX DUCT SHALL NOT HAVE MORE THAN 1/2" SAG PER FOOT
5. LENGTH OF FLEX DUCT SHALL NOT EXCEED 3'-0"
6. PROVIDE DUCT MOUNTED VOLUME DAMPER.
7. FLEXIBLE DUCTWORK SHALL NOT BE INSTALLED ON RETURN OR EXHAUST AIR DUCTWORK SYSTEMS.



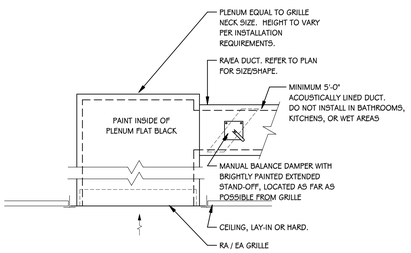
SUPPLY DIFFUSER / REGISTER DUCTWORK AND CONNECTION DETAIL

SCALE: NONE



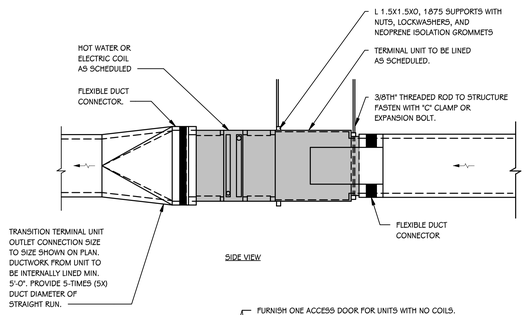
RETURN AIR BOOT DETAIL

SCALE: NONE

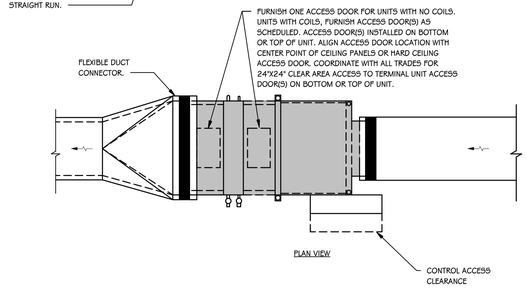


RETURN / EXHAUST AIR GRILLE PLENUM DETAIL

SCALE: NONE



SIDE VIEW



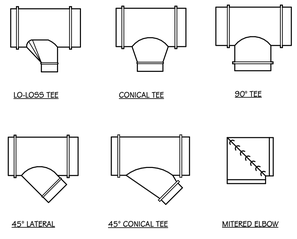
PLAN VIEW

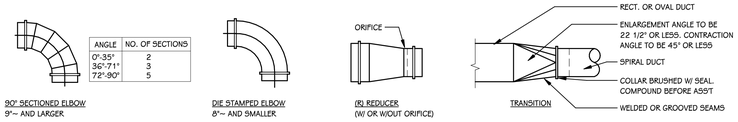
TYPICAL TERMINAL UNIT AND DUCT INSTALLATION

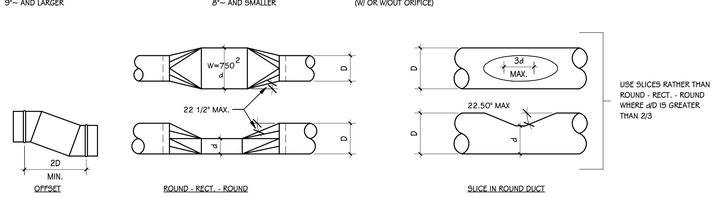
SCALE: NONE

DUCTWORK GENERAL NOTES

1. ALL JOINTS, CORNERS AND SEAMS TO BE FULLY SEALED WITH SMACNA APPROVED DUCTWORK SEALANT.
2. ALL DUCTWORK IS TO BE LEAK TESTED AT PRESSURES SPECIFIED.
3. ALL RADIUS ELBOWS SHALL HAVE MINIMUM 1.5 CENTERLINE RADIUS
4. USE MITERED ELBOW WITH TURNING VANES WHEN CENTERLINE RADIUS IS LESS THAN 1.5.

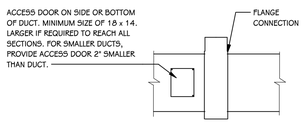


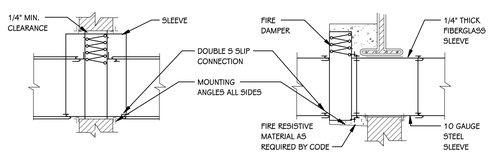




DUCTWORK FITTING DETAILS - ROUND/OVAL

SCALE: NONE



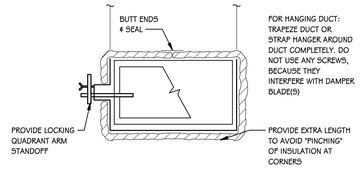


NOTES:

1. INSTALLATION SHOWN AS AN EXAMPLE. SPECIFIC INSTALLATION SHALL CONFORM WITH MANUFACTURER'S UL APPROVED INSTRUCTIONS.
2. COORDINATE INSTALLATION OF FIRE DAMPERS IN OPENINGS TO BE USED FOR OTHER SERVICES (SUCH AS PIPING, CONDUIT, CABLE, ETC.) WITH ALL ASSOCIATED TRADES. FIRE DAMPERS SHALL BE RATED TO MAINTAIN THE RATING OF THE FIRE SEPARATION. THEY SHALL BE BSMA.
3. APPROVED AND LABELED BY UNDERWRITER'S LABORATORIES (U.L.) THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 90A, UL 555 AND THE MANUFACTURER'S RECOMMENDATIONS.
4. ALL DUCT-COLLAR CONNECTIONS SHALL COMPLY WITH UL 555 AND SMACNA.
5. GAUGES FOR COLLAR AND RECTANGULAR DUCT SHALL BE AS FOLLOWS: 1. CONNECTIONS BETWEEN COLLAR AND DUCT WORK SHALL BE BREAKAWAY TYPE SUCH AS "S" SLIP, CRIMP, OR OTHER SLIP TYPE, IN ACCORDANCE WITH SMACNA PLATE 15A, 4TH EDITION AND PLATE 1, SMACNA FIRE DAMPER GUIDE, 1986, UNLESS OTHERWISE REQUIRED BY CODE. B. FIRE DAMPER COLLARS SHALL BE MINIMUM SAME GAUGE AS DUCTWORK AS REQUIRED FOR UL LISTING.
6. PROVIDE STEEL STUD FRAMING IN THE DRY WALL OPENING TO ACCEPT THE FIRE DAMPER ASSEMBLY (INCLUDING SLEEVES, ETC.) AS SHOWN.
7. AFTER THE INSTALLATION OF DAMPERS, THE CONTRACTOR SHALL SEAL ALL JOINTS FOR AIR TIGHTNESS.
8. TO ALLOW FOR EXPANSION, DAMPERS SHALL HAVE A CLEARANCE EQUAL TO 1/8" PER FOOT OF DAMPER HEIGHT. THE SIDE CLEARANCE SHALL BE 1/8" PER FOOT OF DAMPER WIDTH DIVIDED EQUALLY TO THE RIGHT AND TO THE LEFT OF THE COLLAR. THE MAXIMUM CLEARANCE FOR THE TOP AND THE TOTAL OF BOTH SIDES SHALL BE 1/2" EACH. THE RETAINING ANGLES SHALL BE 1-1/2" X 1-1/2" SO THAT THERE WILL BE A MINIMUM OF 1" OVERLAP ON THE FIRE SEPARATION.
9. DAMPER SHALL BE SECURED TO COLLAR ACCORDING TO UL LISTING. RETAINING ANGLES SHALL BE SECURED TO COLLAR ACCORDING TO THE UL LISTING.
10. SHEET METAL SCREWS, 1/4" DIA., NUTS & BOLTS, OR 3/16" STEEL POP RIVETS, ALL 6" ON CENTER.
11. WHERE HUNG CEILING DOES NOT HAVE REMOVABLE TILES, AN ACCESS DOOR (FIRE RATED WHERE REQUIRED) SHALL BE INSTALLED IN CEILING NEAR LOCATION OF DAMPER.
12. ALL RETAINING ANGLES SHALL BE GALVANIZED STEEL.
13. INSTALL FIRE DAMPER IN THIS FASHION SO THE LOCKING DEVICE CAN BE ACCESSED WHEN THE DAMPER IS CLOSED.

FIRE DAMPER (COMBINATION FIRE / SMOKE DAMPERS SHALL BE SIMILAR) DETAIL

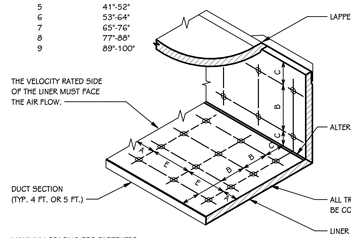
SCALE: NONE



VOLUME DAMPER SUPPORT DETAIL

SCALE: NONE

NO. PINS	LINER INTERIOR WIDTH
0	8" DN
2	9"-16"
3	17"-28"
4	29"-40"
5	41"-52"
6	53"-64"
7	65"-76"
8	77"-88"
9	89"-100"

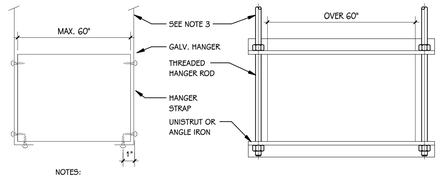


MAXIMUM SPACING FOR FASTENERS. ACTUAL INTERVALS ARE APPROXIMATE.

VELOCITY	DIMENSIONS			
	A	B	C	E
0-2500 FPM	3"	12"	4"	18"
2501-6000 FPM	3"	6"	4"	16"

DUCT LINER INSTALLATION DETAIL

SCALE: NONE

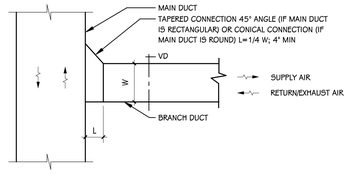


NOTES:

1. ON DUCTS OVER 48" WIDE, BOTTOM SHALL BE BRACE BY ANGLE. FOR CROSS SECTION AREA MORE THAN 8 SQ FT, DUCT SHALL BE BRACED BY ANGLES ON ALL FOUR SIDES.
2. CUTTING AND PATCHING SHALL BE LIMITED TO A MINIMUM AS REQUIRED FOR PROPER INSTALLATION.
3. SUPPORTS SHALL BE SPACED AND SIZED PER SMACNA.

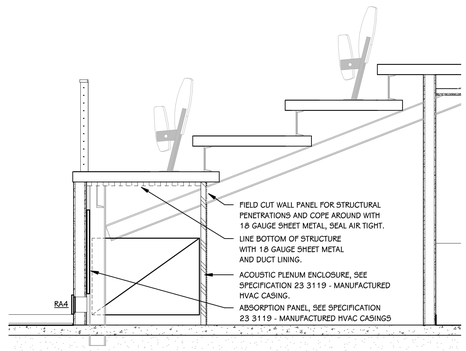
DUCT HANGER SUPPORT DETAIL

SCALE: NONE



BRANCH TAKE OFFS DETAIL

SCALE: NONE



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1/2" = 1'-0"

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NO.	DESCRIPTION	ISSUE DATE
A	ISSUED FOR 100% DD	2026.01.30
B	ISSUED FOR PERMIT	2026.03.23
C	ISSUED FOR 95% CD	2026.04.30

PROJECT NAME
TOWNE SOUTH CHURCH
2224 PEARTREE RD,
ELIZABETH CITY, NC 27909

CURRENT ISSUE
ISSUED FOR 95% CD
2026.04.30

SHEET NAME
MECHANICAL SCHEDULES AND DETAILS

PROJECT NUMBER
25-623

SCALE
NONE

DRAWING NUMBER
M-503

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