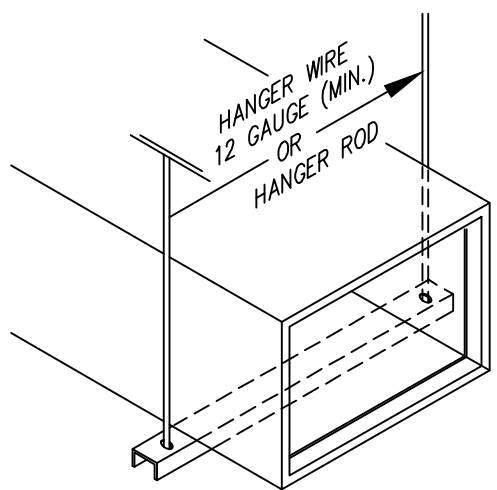## STANDARD 3" WIDE HANGERS

Hanger extension to be the sum of the distances between the hanging wires and the duct size, ID(Smacna).
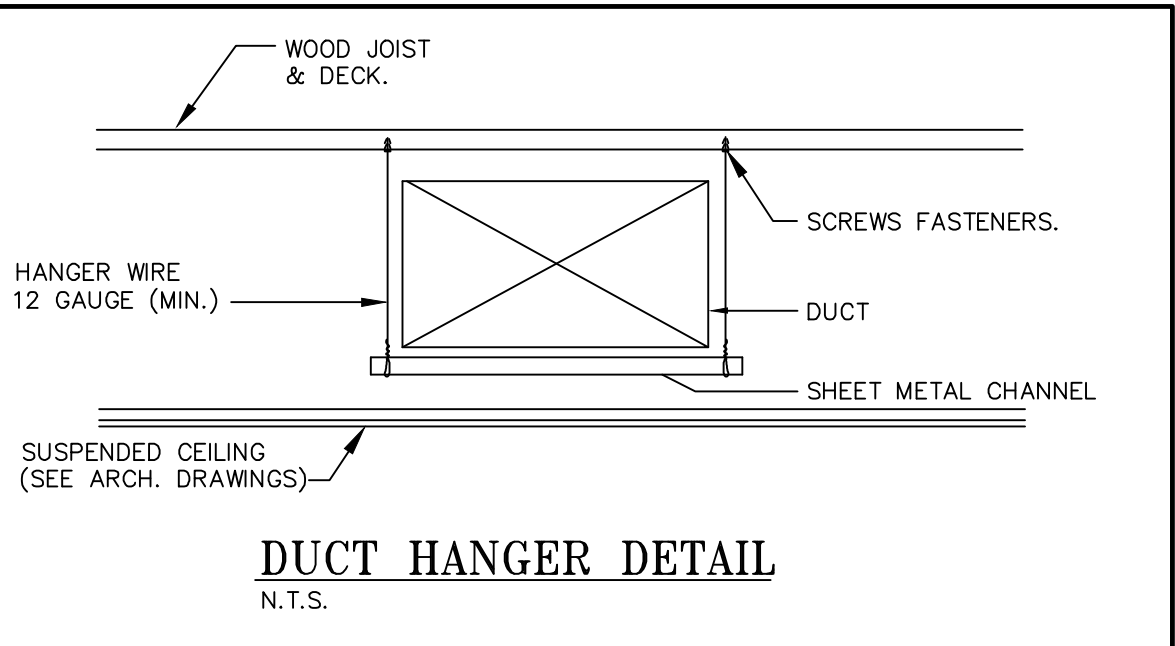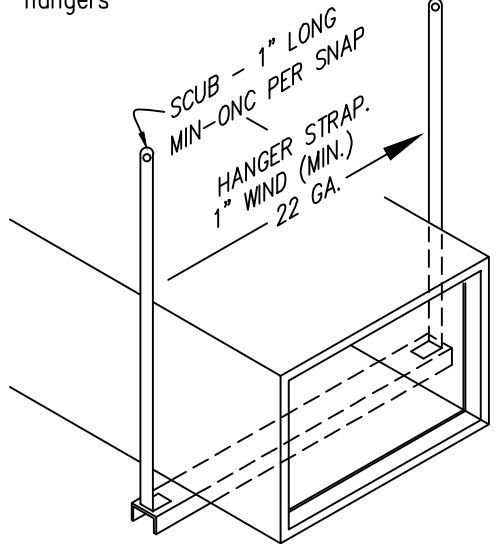
Duct size, inches	Maximum Hanger Spacing
48; Wide or grade	4 ft
Less than 48" wide and less than 48" deep	6 ft
Width between 28" & 48" and greater than 16" deep	6 ft
Less than 29" wide and 16" depth or less	8 ft

CHANNEL SELECTION

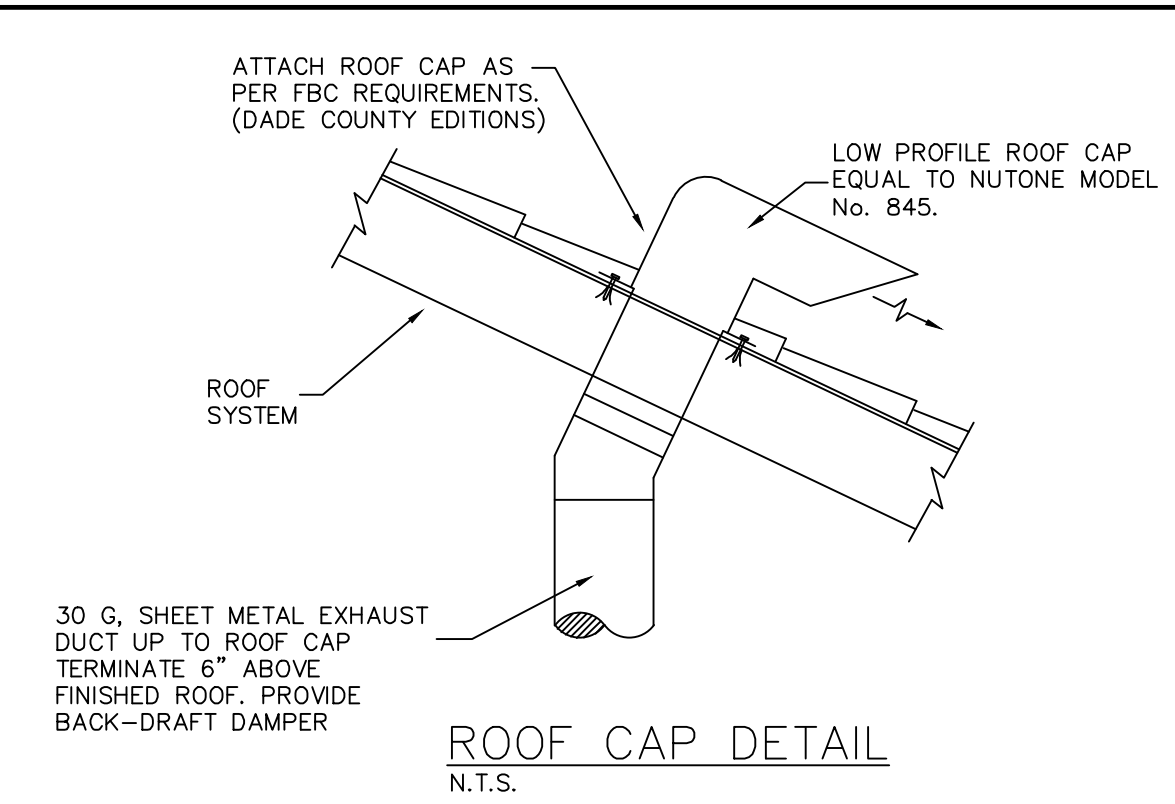| If Total Extension is not greater than:	Minimun Channel Gauge	Minimun Channel Gauge
6"	24	3" X 1.5"
18"	22	3" X 2"
30"	18	3" X 2"

USE OF 2" WIDE

22 gauge 2' x 1.5" hangers may substituted for 3" hangers for ducts with widths not over 48" and depths not over 24" provided that not more than one joint occurs between hangers and the maximum hanger spacing 4ft. Exception: When duct perimeter is 80" or less and does not require reinforcement two joints are permitted between hangers

SCUB - 1" LONG MIN-ONC PER SNAP

HANGER WIRE 12 GAUGE (MIN.) OR HANGER ROD

HANGER STRAP, 1" WIND (MIN.) 22 GA.

DUCT HANGER AND SUPPORTS
NTS

WOOD JOIST & DECK.

SCREWS FASTENERS.

HANGER WIRE 12 GAUGE (MIN.)

DUCT

SHEET METAL CHANNEL

SUSPENDED CEILING (SEE ARCH. DRAWINGS)

DUCT HANGER DETAIL
N.T.S.

ATTACH ROOF CAP AS PER FBC REQUIREMENTS. (DADE COUNTY EDITIONS)

LOW PROFILE ROOF CAP EQUAL TO NUTONE MODEL No. 845.

ROOF SYSTEM

30 G, SHEET METAL EXHAUST DUCT UP TO ROOF CAP TERMINATE 6" ABOVE FINISHED ROOF. PROVIDE BACK-DRAFT DAMPER.
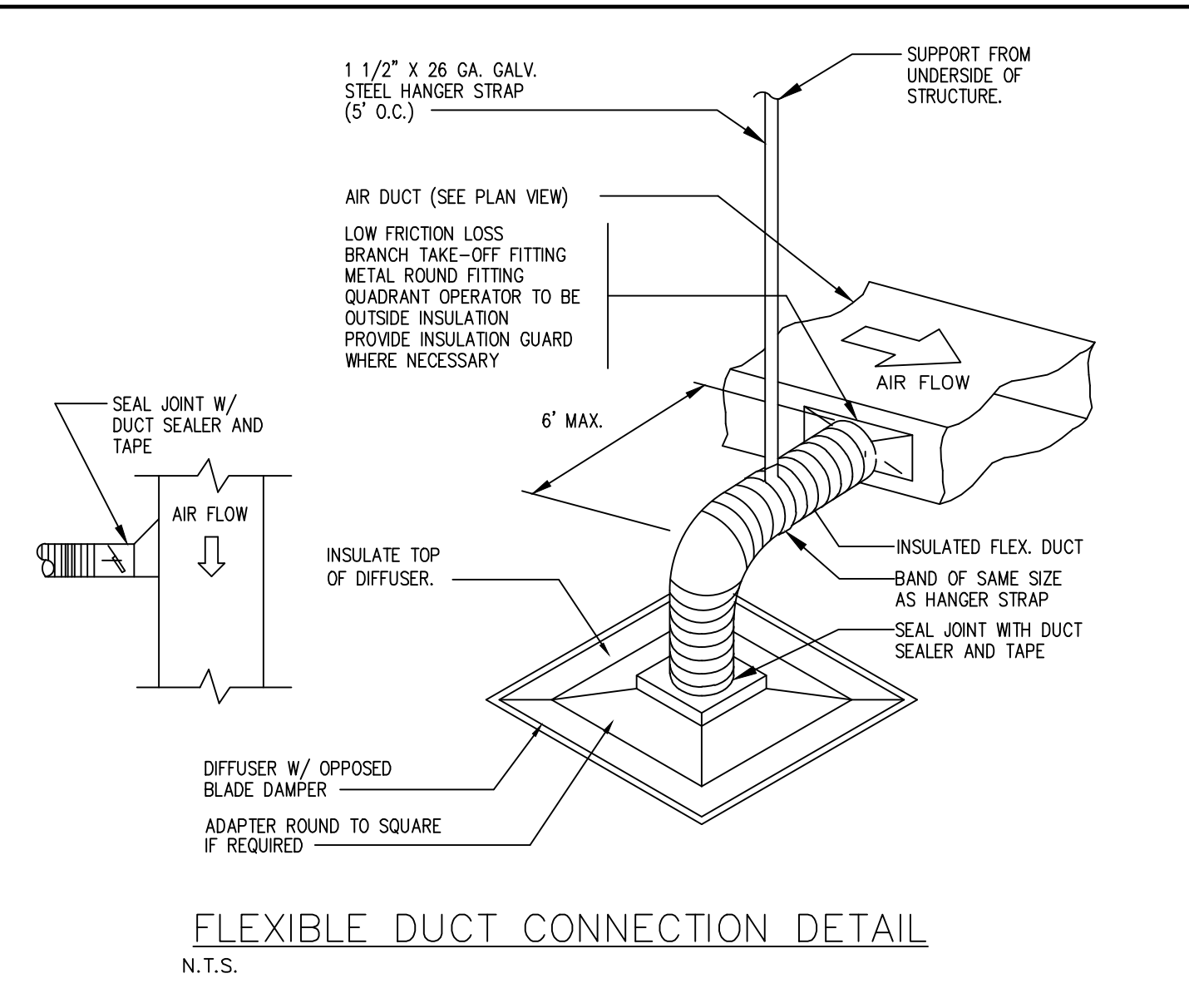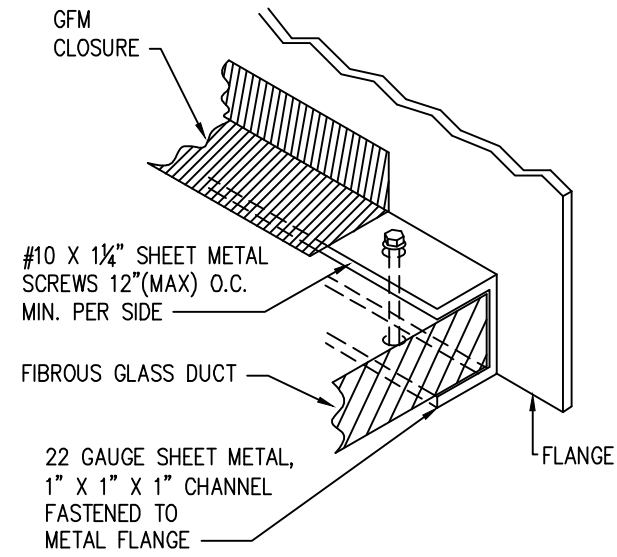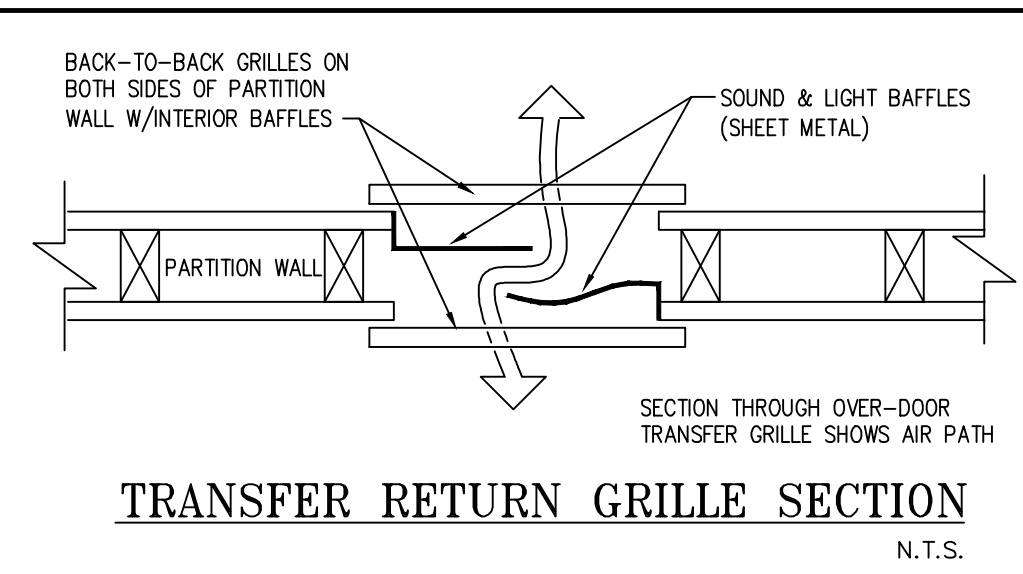
ROOF CAP DETAIL
N.T.S.

FIBER GLASS DUCT CONNECTION TO EQUIPMENT
NTS

NOTE:
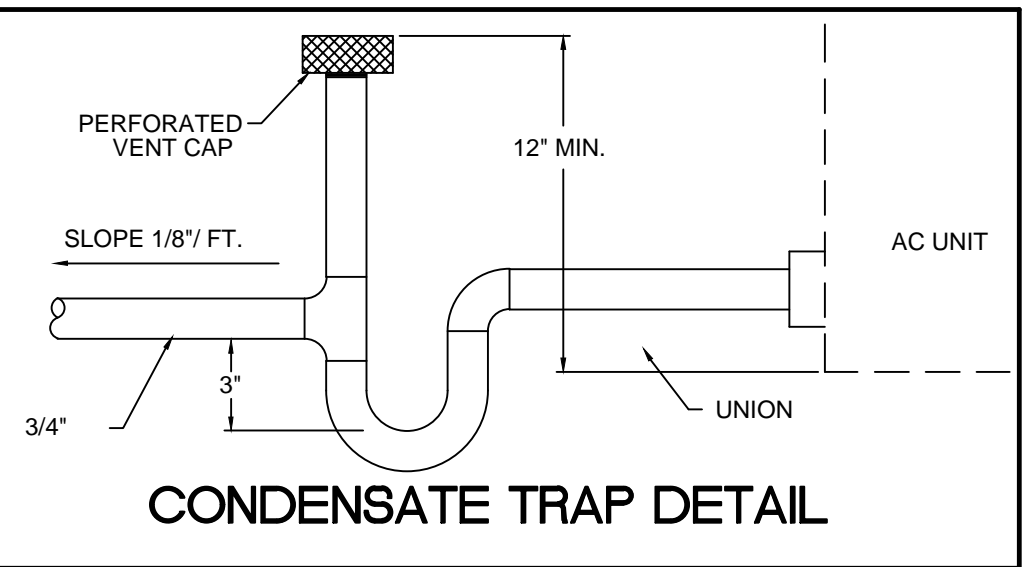Sheet metal connections must be using glass fabric and mastic(GFM)

EXCEPTION:
When construction pressure class is 1"W.G. or less and sheet metal surfaces are cleaned carefully UL listed pressure-sensitive aluminum tape may be used.
All connections of fibrous glass duct to equipment and metal duct must be mechanically attached 12"(max.) on centers.
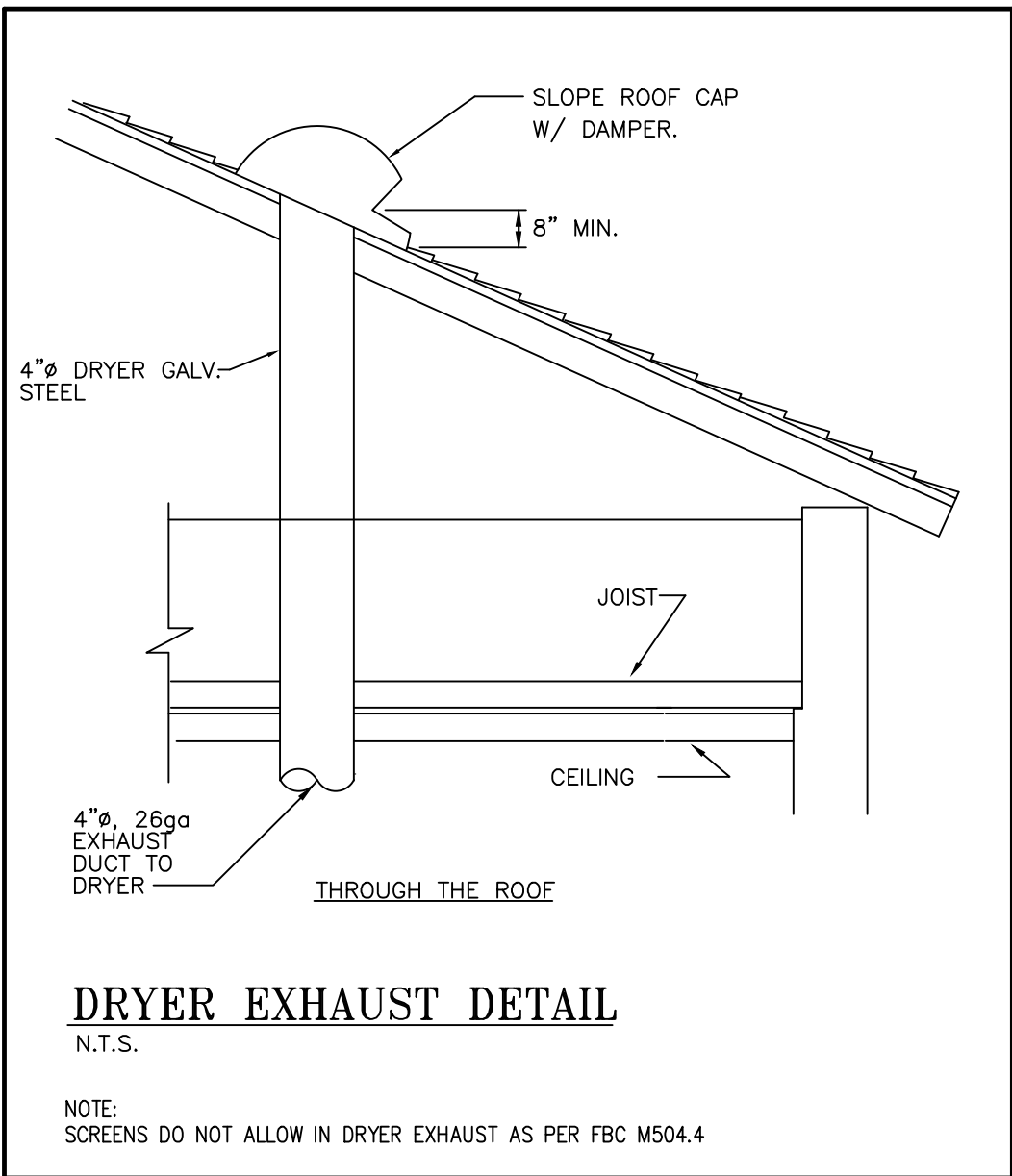
GFM CLOSURE

#10 X 1¼" SHEET METAL SCREWS 12"(MAX) O.C. MIN. PER SIDE

FIBROUS GLASS DUCT

FLANGE

22 GAUGE SHEET METAL, 1" X 1" X 1" CHANNEL FASTENED TO METAL FLANGE

SUPPORT FROM UNDERSIDE OF STRUCTURE.

1 1/2" X 26 GA. GALV. STEEL HANGER STRAP (5' O.C.)

AIR DUCT (SEE PLAN VIEW)

LOW FRICTION LOSS BRANCH TAKE-OFF FITTING METAL ROUND FITTING QUADRANT OPERATOR TO BE OUTSIDE INSULATION PROVIDE INSULATION GUARD WHERE NECESSARY

AIR FLOW

6" MAX.

SEAL JOINT W/ DUCT SEALER AND TAPE

AIR FLOW

INSULATE TOP OF DIFFUSER.

INSULATED FLEX. DUCT

BAND OF SAME SIZE AS HANGER STRAP

SEAL JOINT WITH DUCT SEALER AND TAPE

DIFFUSER W/ OPPOSED BLADE DAMPER

ADAPTER ROUND TO SQUARE IF REQUIRED

FLEXIBLE DUCT CONNECTION DETAIL
N.T.S.

BACK-TO-BACK GRILLES ON BOTH SIDES OF PARTITION WALL W/INTERIOR BAFFLES

SOUND & LIGHT BAFFLES (SHEET METAL)

PARTITION WALL

SECTION THROUGH OVER-DOOR TRANSFER GRILLE SHOWS AIR PATH

TRANSFER RETURN GRILLE SECTION
N.T.S.

PERFORATED VENT CAP

12" MIN.

AC UNIT

SLOPE 1/8"/ FT.

3"

3/4"

UNION

CONDENSATE TRAP DETAIL

NOTE:
SCREENS DO NOT ALLOW IN DRYER EXHAUST AS PER FBC M504.4

SLOPE ROOF CAP W/ DAMPER.

8" MIN.

4"ø DRYER GALV. STEEL

JOIST

CEILING

4"ø, 26ga EXHAUST DUCT TO DRYER

THROUGH THE ROOF

DRYER EXHAUST DETAIL
N.T.S.

FIN. GRADE

2'-0" X 3'-0"

PEA GRAVEL

DRY WELL

DRY-WELL DETAIL
N.T.S.

CONNECTING DUCTWORK

EXHAUST FAN CABINET

CEILING INTAKE GRILLE
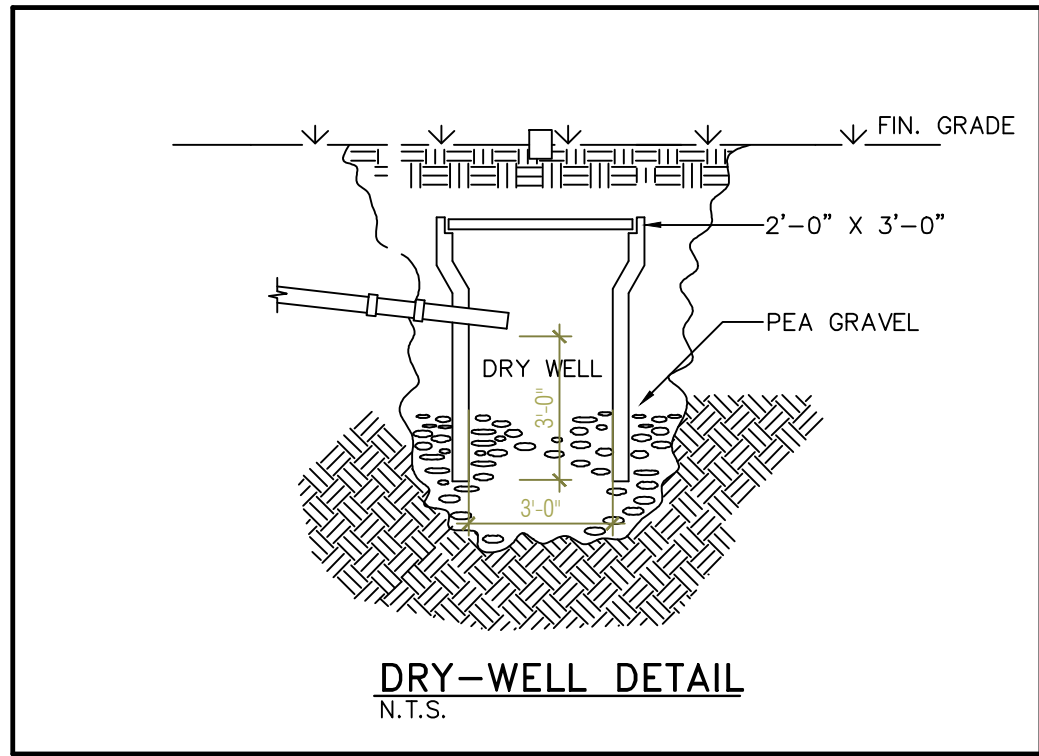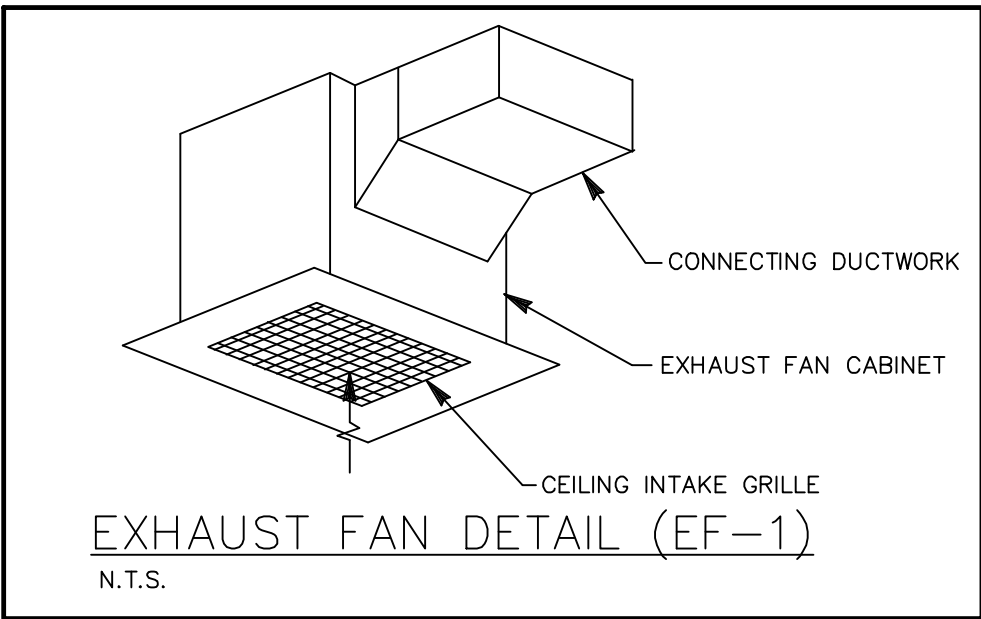
EXHAUST FAN DETAIL (EF-1)
N.T.S.

ROOF STRUCTURE

SCREWS OR POWDER ACTUATED FASTENERS.

DUCT

1"X16 GA. STRAPPING WITH 1" RETURN BEND ON BOTTOM AND SCREWED TO SIDE OF DUCT.

SUSPENDED CEILING (SEE ARCH. DRAWINGS)

DUCT HANGER DETAIL
N.T.S.

DUCT HANGER DETAIL
N.T.S.

HANGER SCREWS

LOAD RATED FASTENERS.

10" DIA. MAX.

50" DIA. MAX.

24" DIA. MAX.

BAND SAME SIZE AS HANGER STRAP

HANGERS MUST NOT DEFORM DUCT SHAPE

No.	Date	Description

Issue

SIGN & SEAL

KAREL VALDES LICENSE No.74576 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET TITLE:

MECHANICAL DETAILS

Drawn by	A.M
Checked by	K.V
Project Number	021123A
Issued for	
Issue date	02/11/23

Sheet #

M-3

Scale SEE DWG.