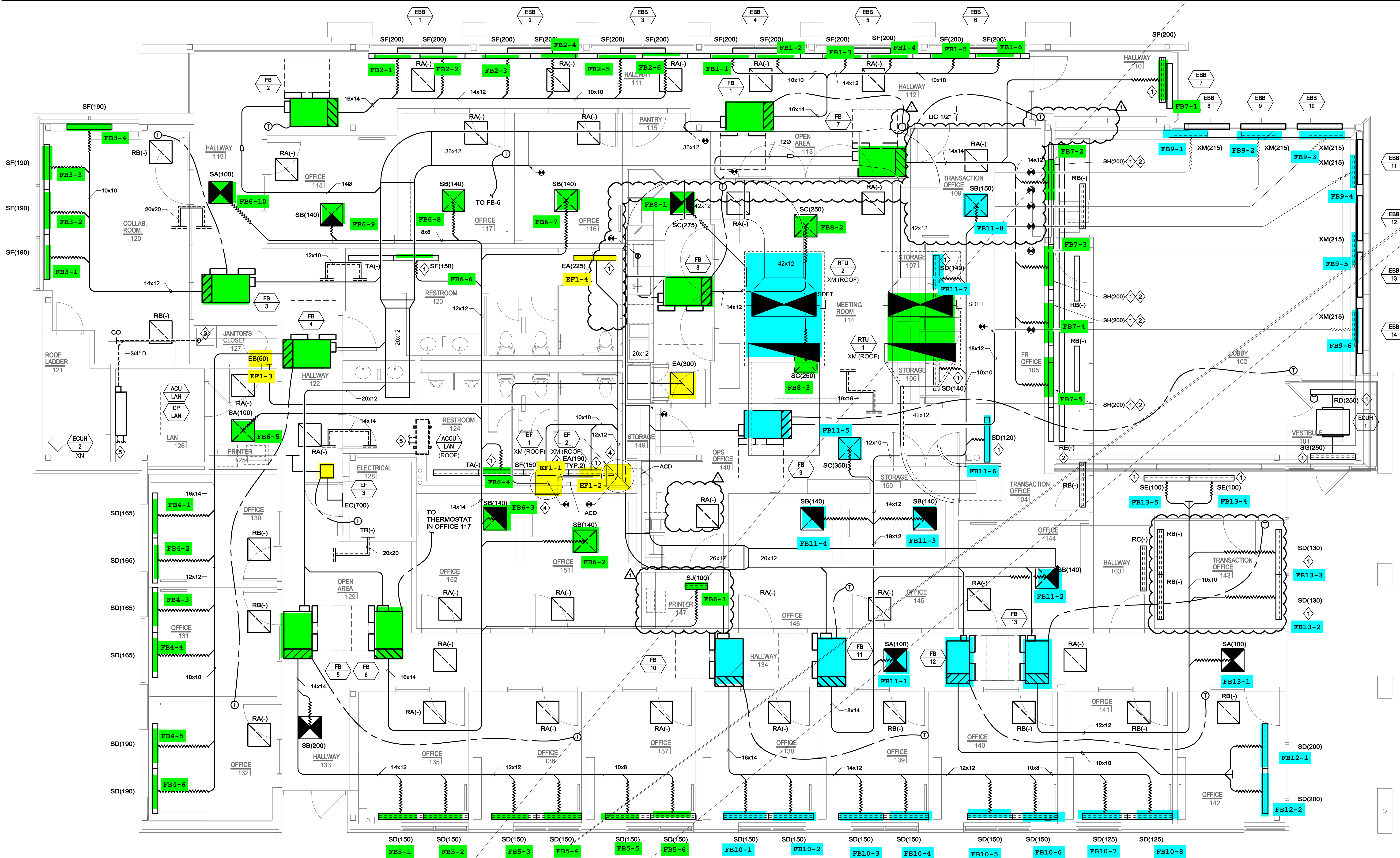


INDIANAPOLIS - 305 - FLOOR 01
 8480 KEYSTONE CROSSING
 INDIANAPOLIS, IN 46240-2437 USA

Scenario: Current
 Wed May 29 16:02:47 EDT 2024



KEYNOTES	
	PROVIDE REMOTELY ADJUSTABLE BALANCING DAMPER PER DETAIL.
	INSTALL LINEAR SLOT DIFFUSER IN VERTICAL WALL. COORDINATE WITH ARCHITECTURAL PLANS FOR MOUNTING ELEVATION. LINEAR SLOT SHALL BE CONTINUOUS ALONG LENGTH OF WALL.
	3/4" CONDENSATE DRAIN PIPING DOWN TO JANITORS SINK.
	RE-BALANCE EXISTING TO REMAIN FAN TO SUM OF CONNECTED AIRFLOWS.
	REFRIGERANT LINES BETWEEN ACU-LAN IN LAN ROOM AND ACCU-LAN ON ROOF. CONTRACTOR SHALL CONFIRM FINAL ROUTING AND SIZING WITH MANUFACTURER'S RECOMMENDATIONS BEFORE INSTALLATION. COORDINATE WITH MANUFACTURER AS REQUIRED.

- SHEET NOTES:**
- REFER TO SHEET H-000 FOR HVAC LEGEND, SYMBOLS AND ABBREVIATIONS.
 - CONTRACTOR TO COORDINATE ALL BUILDING SHUTDOWNS WITH BUILDING MANAGEMENT.
 - ALL EXISTING DUCTWORK AND PIPING WHICH IS TO BE REUSED SHALL BE CLEANED, REINFORCED, INSULATED, LINED, SEALED AND BRACED AS PER SPECIFICATIONS.
 - CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DUCT AND PIPE SIZES AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL INFORM ENGINEER OF ANY DISCREPANCIES ON DRAWINGS.
 - CONTRACTOR SHALL ENSURE ALL EXISTING EQUIPMENT IS OPERATING PROPERLY PRIOR TO REUSE AND SHALL REPAIR/REPLACE EQUIPMENT NOT OPERATING PROPERLY.
 - PROVIDE VOLUME DAMPERS AT EACH DIFFUSER, REGISTER AND GRILLE (AIR DEVICE). ALL VOLUME DAMPERS SHALL BE ACCESSIBLE. VOLUME DAMPERS LOCATED IN INACCESSIBLE LOCATIONS SHALL BE PROVIDED WITH REMOTELY ADJUSTABLE BALANCING DAMPER.
 - THERMOSTATS SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION WITH THE ARCHITECT. THERMOSTATS MOUNTED ON PERIMETER WALLS SHALL BE PROVIDED WITH AN INSULATED BACK PLATE.
 - CONTRACTOR TO ENSURE A RETURN AIR PATH IS AVAILABLE FROM ALL ROOMS AND SPACES BACK TO THE MAIN RETURN AIR DUCT INLETS. CONTRACTOR SHALL PROVIDE TRANSFER DUCTS AT ALL FULL HEIGHT PARTITIONS. ALL TRANSFER DUCTS SHALL BE LINED AND CONSTRUCTED ACCORDING TO DETAIL. TRANSFER DUCTS SHALL BE SIZED AT A MAXIMUM VELOCITY OF 300 FPM.

- PROVIDE CLEANOUTS AT ALL CHANGES IN DIRECTION FOR ALL CONDENSATE DRAIN PIPING.
- PROVIDE RETURN AIR TRANSFER BOOT FOR ALL RETURN GRILLES PER DETAIL.
- HVAC CONTRACTOR SHALL INCLUDE AS PART OF PROJECT SCOPE (1) 8 HOUR DAY FOR HVAC TECHNICIAN, BALANCING CONTRACTOR AND CONTROLS CONTRACTOR TO INTERFACE WITH THE HVAC DESIGN ENGINEER AFTER THE REQUIRED START UP AND BALANCING HAS BEEN COMPLETED TO VERIFY PROPER OPERATION OF ALL MECHANICAL SYSTEMS BEFORE THE SPACE IS TURNED OVER TO FIDELITY INVESTMENTS. DURING THIS MEETING, THE CONTRACTORS SHALL HAVE WITH THEM ALL NECESSARY EQUIPMENT TO VERIFY OPERATION OF EQUIPMENT AND TO VERIFY AIRFLOWS (DIFFUSER AND TRAVERSE). ANY DEFICIENCIES FOUND DURING THIS WALK THROUGH SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL DUCT RUNOUTS TO DIFFUSERS SHALL MATCH SCHEDULED DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED.
- ALL DUCT RUNOUTS TO TERMINAL EQUIPMENT SHALL MATCH SCHEDULED INLET SIZE, UNLESS OTHERWISE NOTED.
- ROOFTOP UNIT AND ROOF MOUNTED EXHAUST FAN CONTROL SEQUENCES ARE EXISTING TO REMAIN. REFER TO EQUIPMENT OPERATION SCHEDULE ON H-600 FOR HOURS OF OPERATION.
- ROOFTOP UNIT AND ROOF MOUNTED EXHAUST FAN AIRFLOWS SHALL BE BALANCED TO THE NEW TOTAL AIRFLOWS.

Seals:

General Notes:

Project Title:

Number	Description	Date

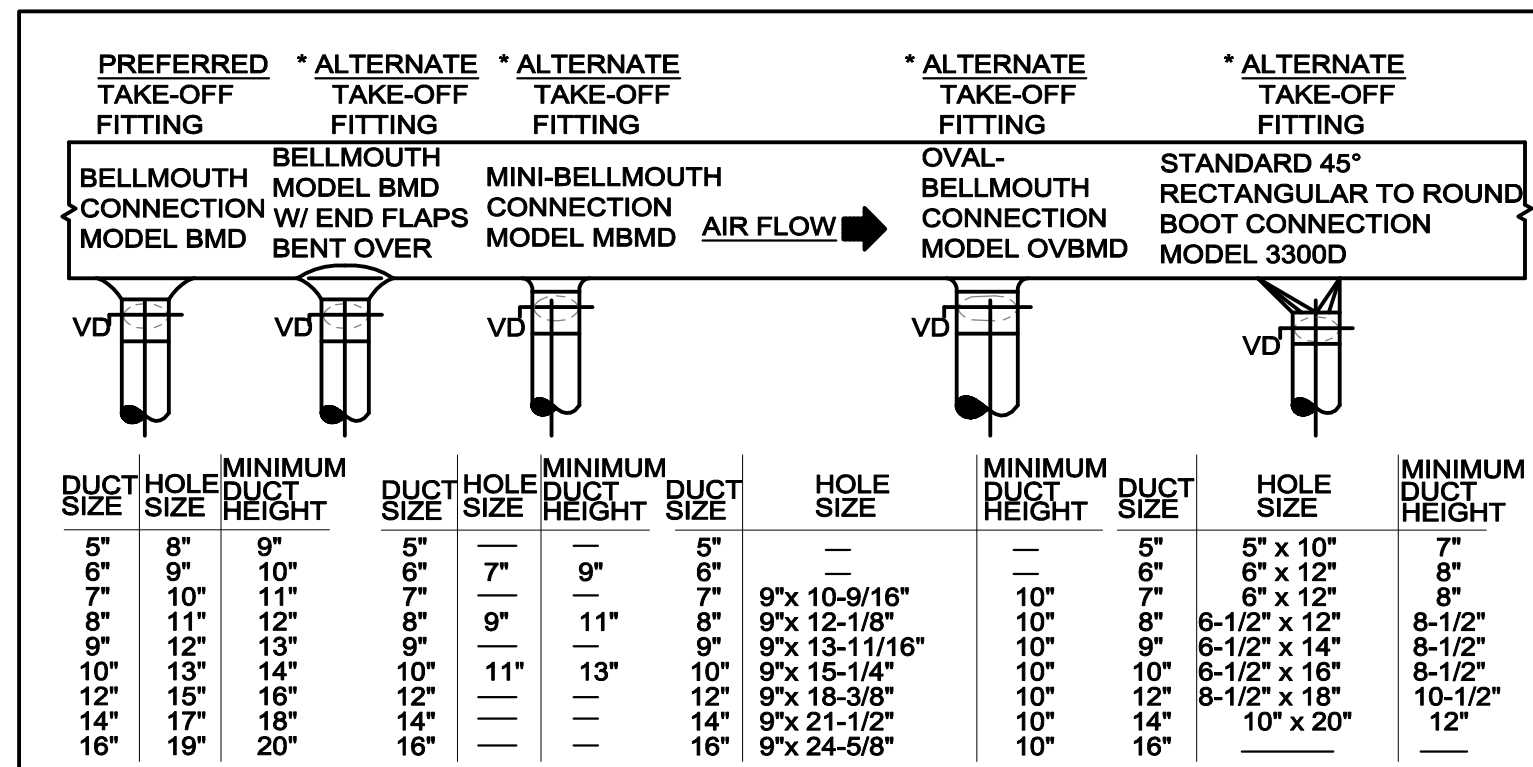
Key Plan: Project North

CAD File:
Project No.:
Copyright:

Drawing Sheet Title:

Drawing Sheet Number:

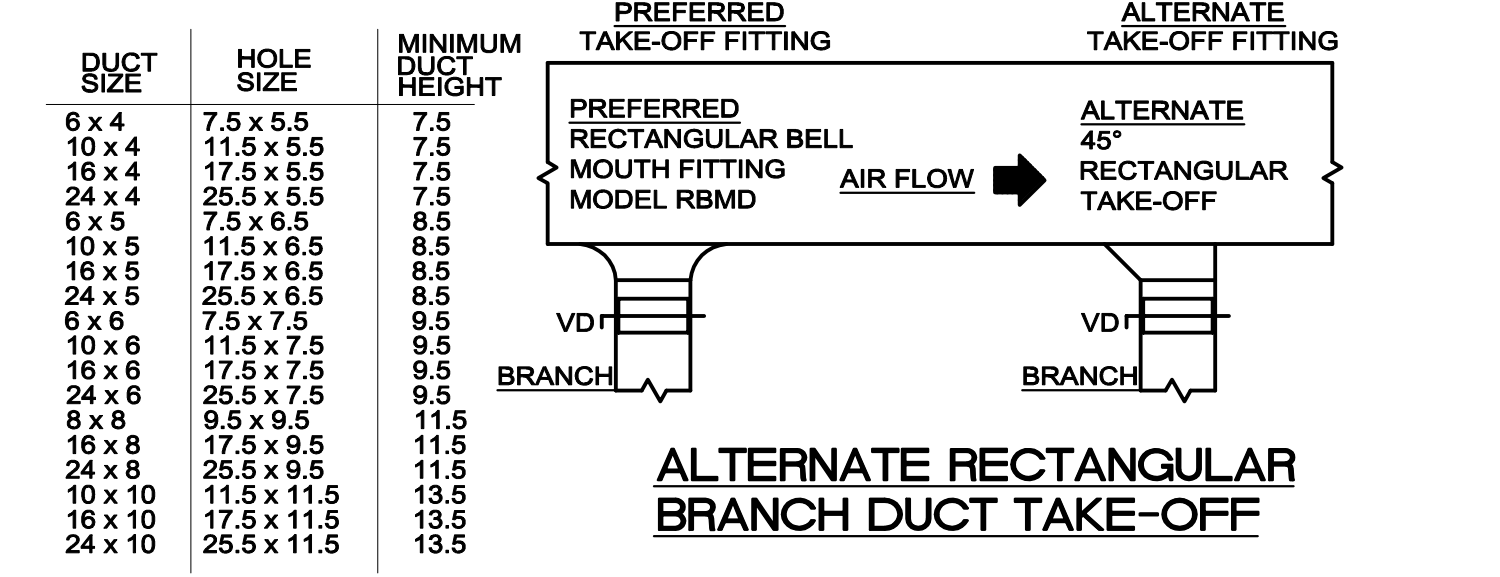
Owner's Drawing Sheet No.:



DUCT SIZE	HOLE SIZE	MINIMUM DUCT HEIGHT	DUCT SIZE	HOLE SIZE	MINIMUM DUCT HEIGHT	DUCT SIZE	HOLE SIZE	MINIMUM DUCT HEIGHT	DUCT SIZE	HOLE SIZE	MINIMUM DUCT HEIGHT
5"	8"	7"	5"	7"	6"	5"	7"	6"	5"	7"	6"
6"	9"	8"	6"	8"	7"	6"	8"	7"	6"	8"	7"
7"	10"	9"	7"	9"	8"	7"	9"	8"	7"	9"	8"
8"	11"	10"	8"	10"	9"	8"	10"	9"	8"	10"	9"
9"	12"	11"	9"	11"	10"	9"	11"	10"	9"	11"	10"
10"	13"	12"	10"	12"	11"	10"	12"	11"	10"	12"	11"
11"	14"	13"	11"	13"	12"	11"	13"	12"	11"	13"	12"
12"	15"	14"	12"	14"	13"	12"	14"	13"	12"	14"	13"
14"	17"	16"	14"	16"	15"	14"	16"	15"	14"	16"	15"
16"	19"	18"	16"	18"	17"	16"	18"	17"	16"	18"	17"

ALTERNATE ROUND BRANCH DUCT TAKE-OFFS

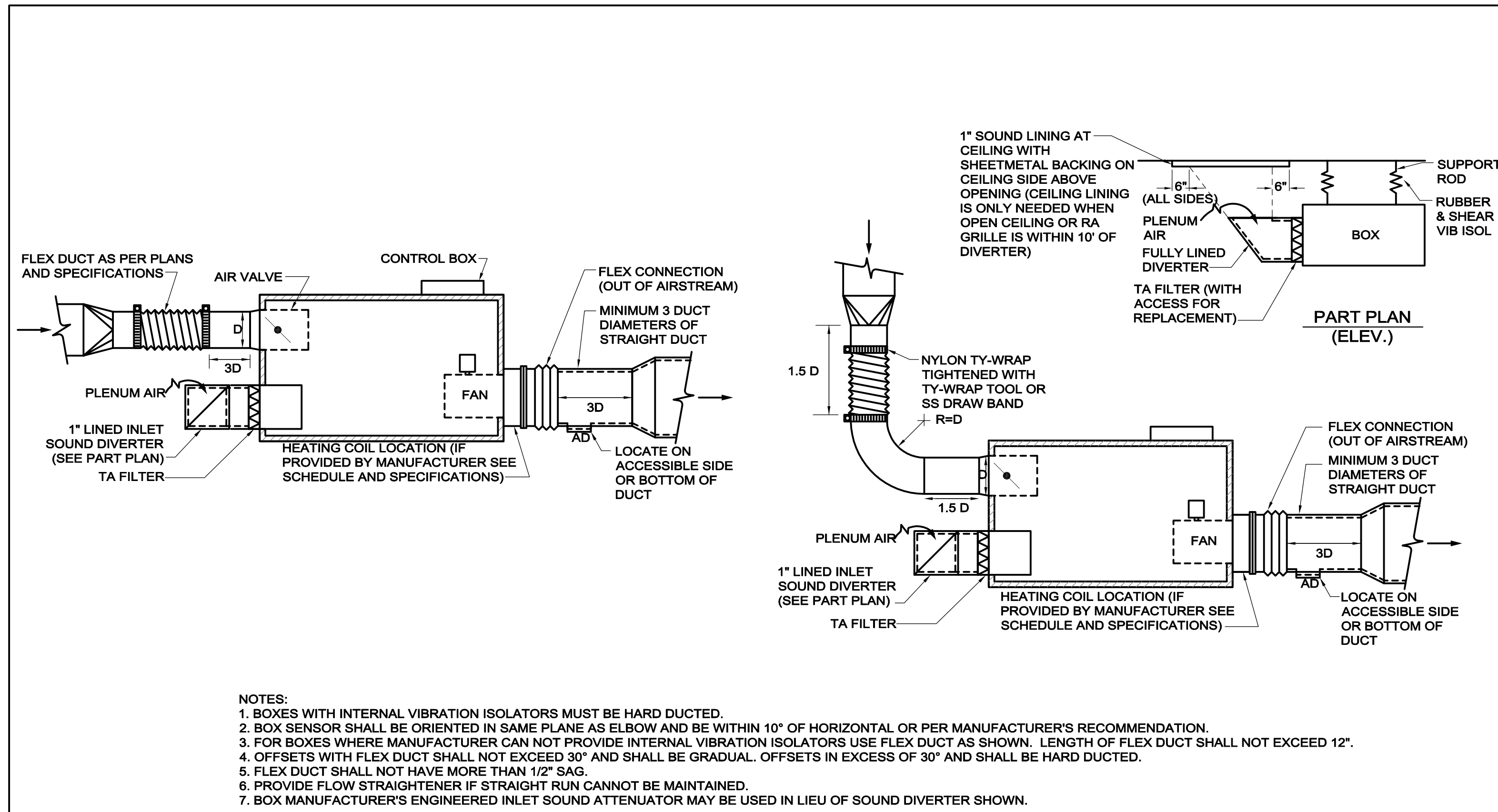
* ALTERNATE FITTINGS TO BE USED WHEN DUCT HEIGHT DOES NOT PERMIT THE USE OF THE FULL SIZE BELLMOUTH



ALTERNATE RECTANGULAR BRANCH DUCT TAKE-OFF

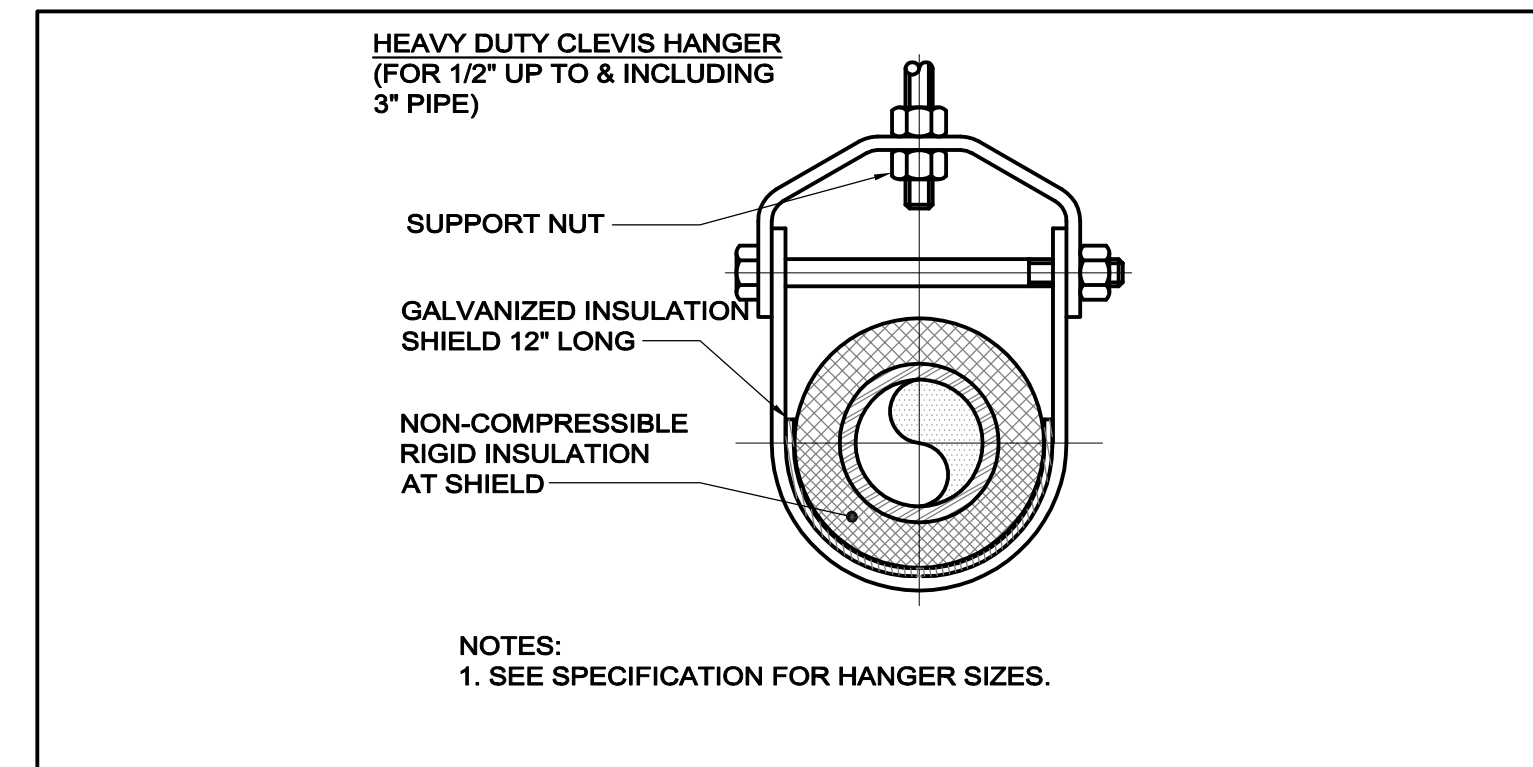
NOTES:
ALL ROUND AND RECTANGULAR BELLMOUTH FITTINGS SHALL BE INCLUDED WITH THE FOLLOWING STANDARD FEATURES:
1. NEOPRENE GASKET TO MINIMIZE AIR LEAKAGE.
2. PRE-DRILLED HOLES FOR QUICK MOUNTING.
3. CONSTRUCTED OF HEAVY GALVANIZED STEEL.
4. 26 GAUGE GALV. QUADRANT VOLUME DAMPER W/ TIGHT FITTING GASKETING TO MINIMIZE LEAKAGE AT DAMPER PIVOT POINTS. (FOR LOW PRESSURE DUCTWORK)

NV5 TYPICAL DUCT TAKE-OFF H1521



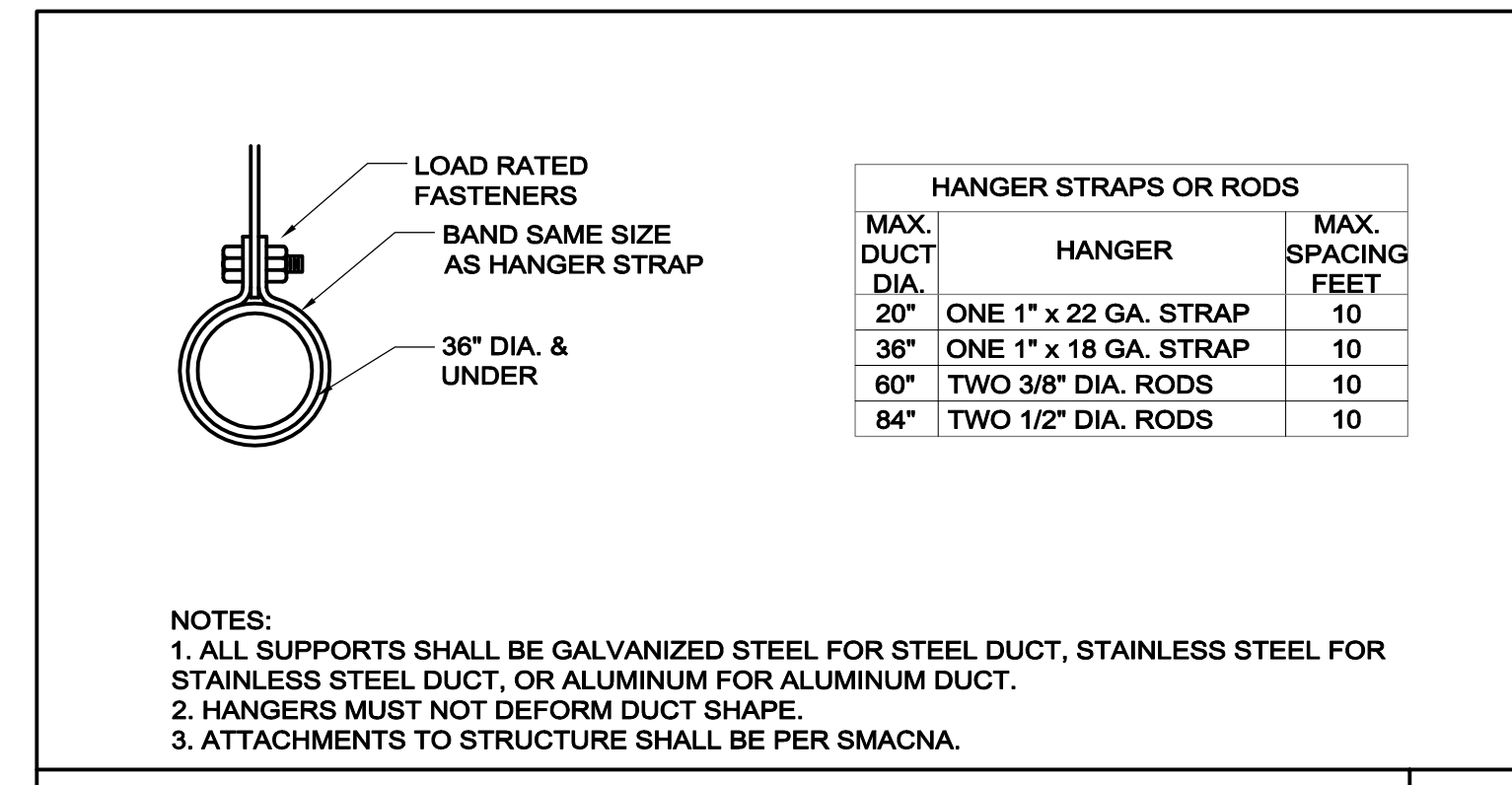
- NOTES:
1. BOXES WITH INTERNAL VIBRATION ISOLATORS MUST BE HARD DUCTED.
2. BOX SENSOR SHALL BE ORIENTED IN SAME PLANE AS ELBOW AND BE WITHIN 10" OF HORIZONTAL OR PER MANUFACTURER'S RECOMMENDATION.
3. FOR BOXES WHERE MANUFACTURER CAN NOT PROVIDE INTERNAL VIBRATION ISOLATORS USE FLEX DUCT AS SHOWN. LENGTH OF FLEX DUCT SHALL NOT EXCEED 12".
4. OFFSETS WITH FLEX DUCT SHALL NOT EXCEED 30" AND SHALL BE GRADUAL. OFFSETS IN EXCESS OF 30" AND SHALL BE HARD DUCTED.
5. FLEX DUCT SHALL NOT HAVE MORE THAN 1/2" SAG.
6. PROVIDE FLOW STRAIGHTENER IF STRAIGHT RUN CANNOT BE MAINTAINED.
7. BOX MANUFACTURER'S ENGINEERED INLET SOUND ATTENUATOR MAY BE USED IN LIEU OF SOUND DIVERTER SHOWN.

NV5 FAN BOX CONNECTIONS (SERIES) H203



NOTES:
1. SEE SPECIFICATION FOR HANGER SIZES.

NV5 PIPE HANGER SUPPORT H001

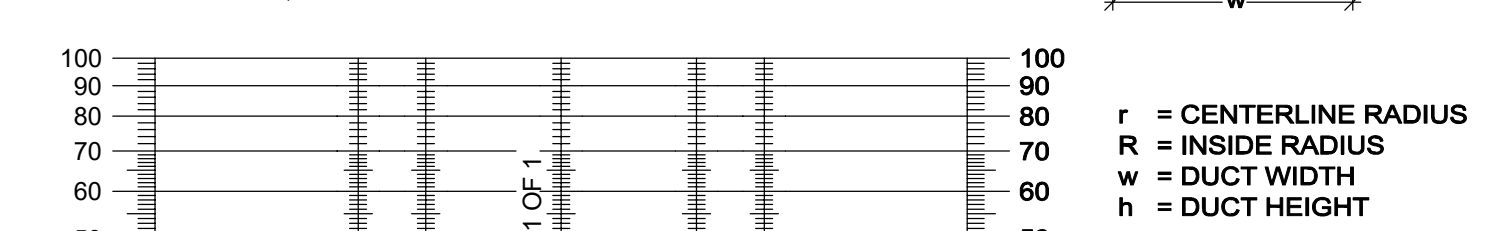


MAX. DUCT DIA.	HANGER	MAX. SPACING FEET
20"	ONE 1" x 22 GA. STRAP	10
36"	ONE 1" x 18 GA. STRAP	10
60"	TWO 3/8" DIA. RODS	10
84"	TWO 1/2" DIA. RODS	10

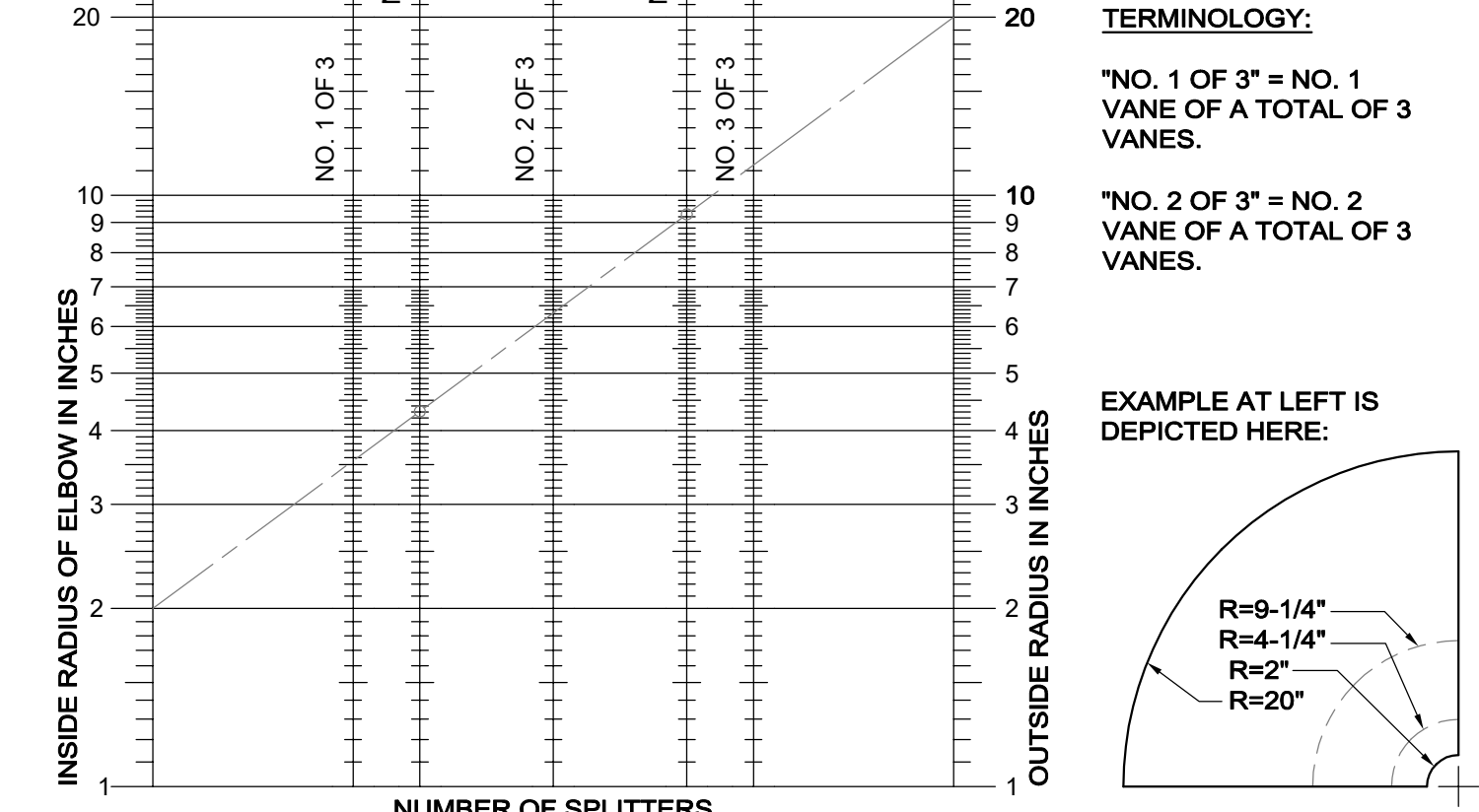
NV5 ROUND METAL DUCT HANGERS H008

RADIUS ELBOW AND SPLITTER VANE REQUIREMENTS

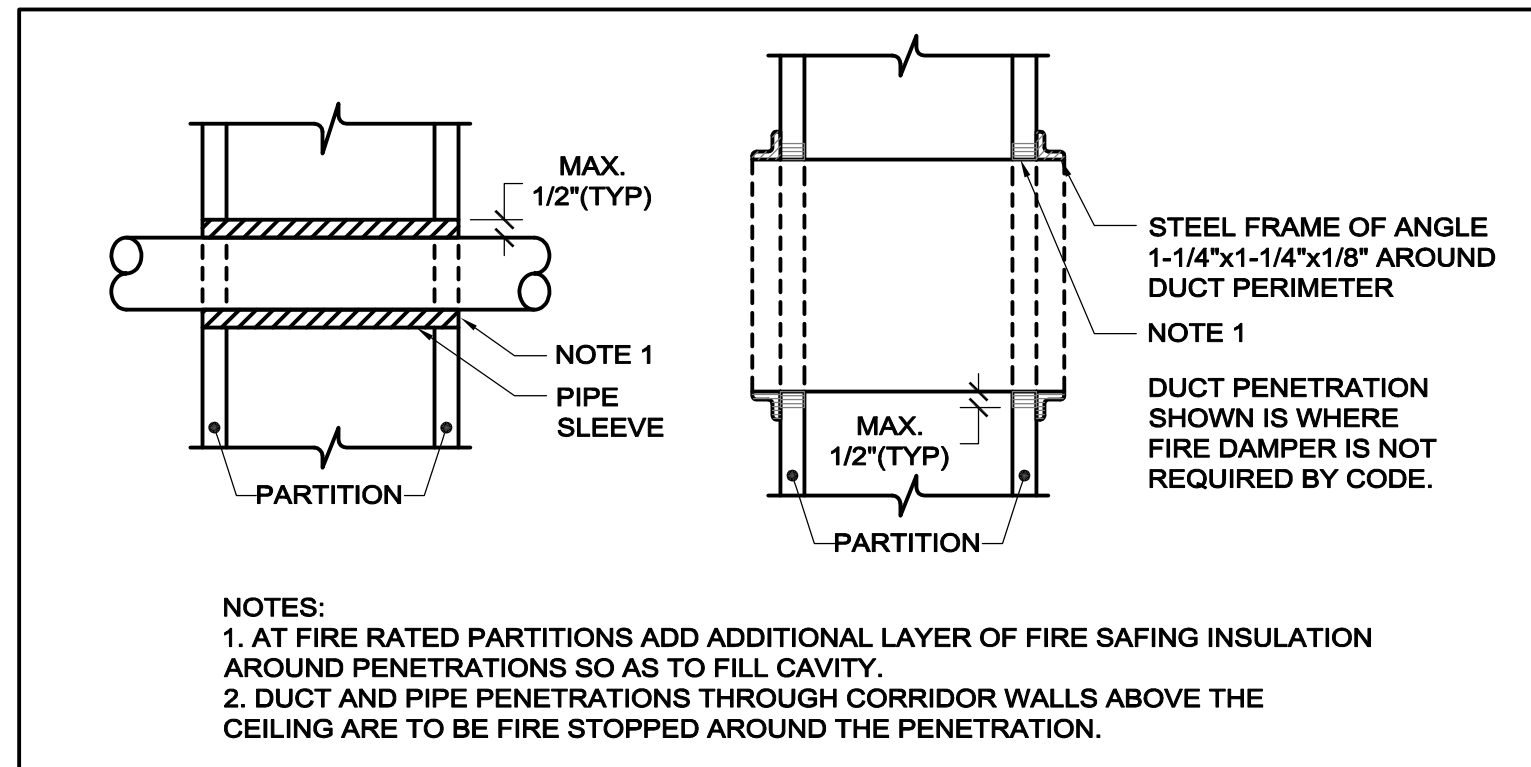
r/w RATIO:	NO. OF VANES FOR 1 ELBOW:	NO. OF VANES WHEN 2 ELBOWS ARE WITHIN 2 EQUIV. DIA.:
r/w ≥ 1.50	0	1
1.5 > r/w ≥ 0.70	1	2
0.7 > r/w ≥ 0.60	2	3
0.6 > r/w ≥ 0.55	3	3



NOTE: r/w = 0.5 IS A SQUARE THROAT ELBOW! HOWEVER, MINIMUM INSIDE RADIUS R SHOULD BE 2".

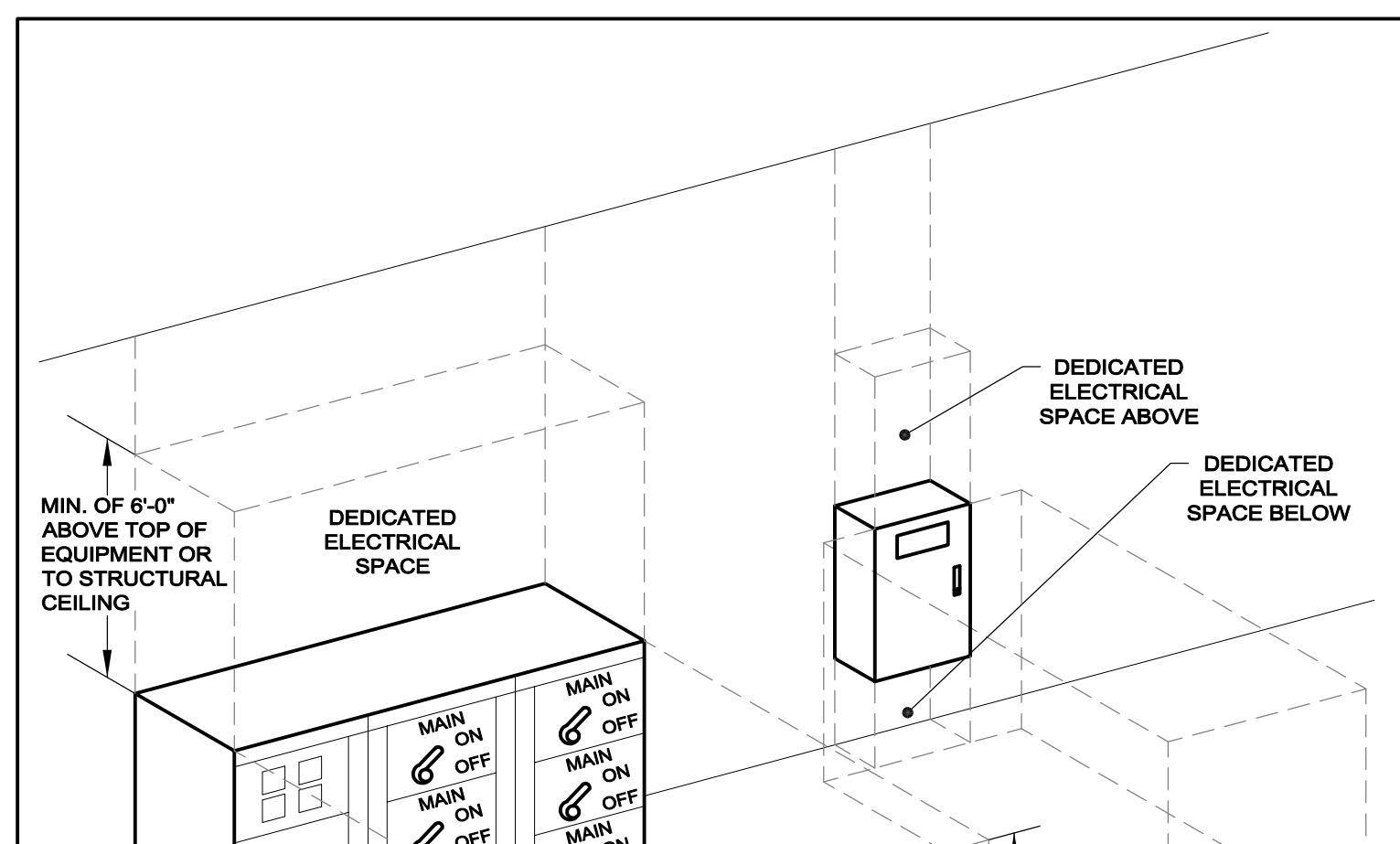


NV5 NUMBERING & SPACING OF DUCT SPLITTER VANES H1520



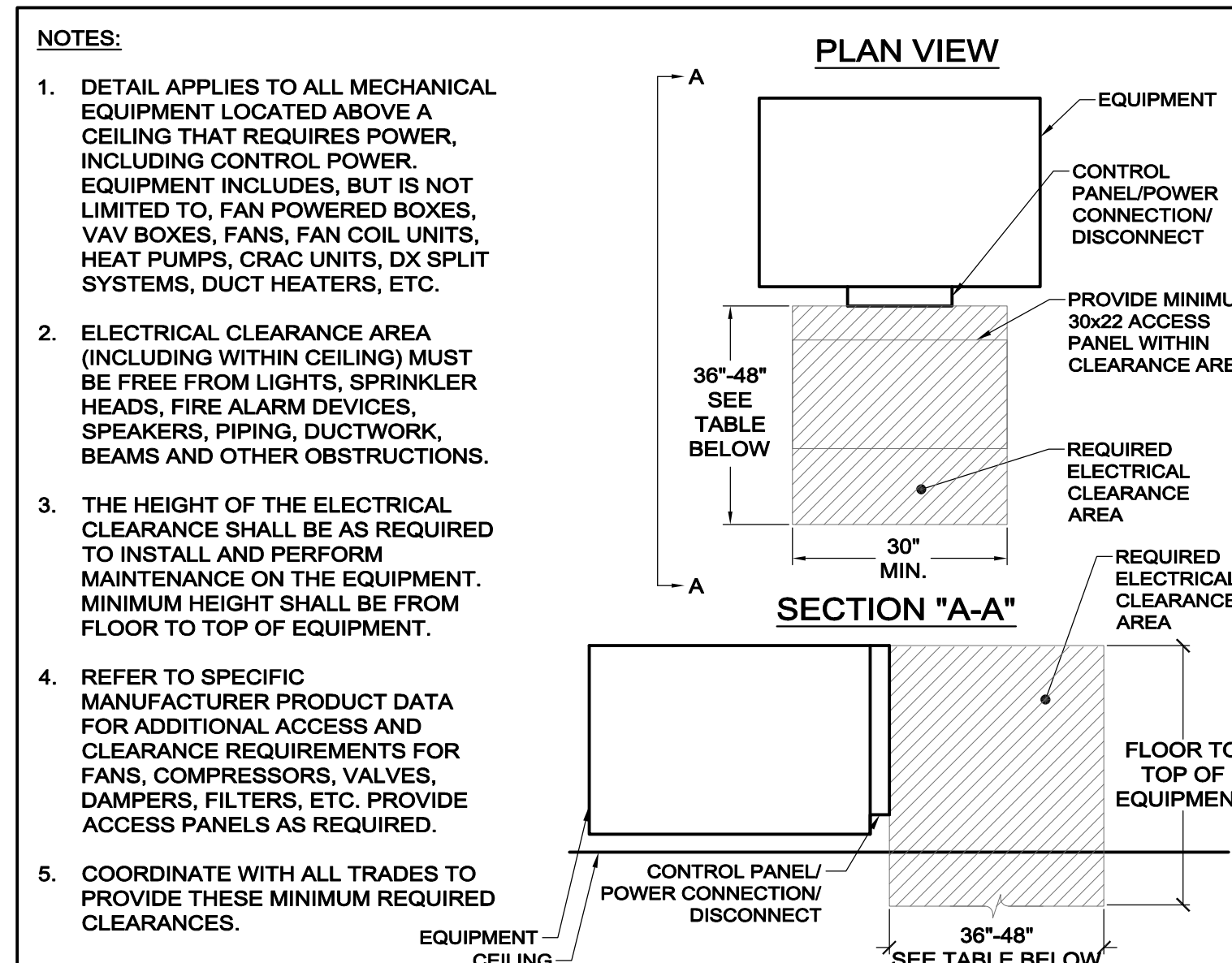
- NOTES:
1. AT FIRE RATED PARTITIONS ADD ADDITIONAL LAYER OF FIRE SAFING INSULATION AROUND PENETRATIONS SO AS TO FILL CAVITY.
2. DUCT AND PIPE PENETRATIONS THROUGH CORRIDOR WALLS ABOVE THE CEILING ARE TO BE FIRE STOPPED AROUND THE PENETRATION.

NV5 DUCT & PIPE PENETRATIONS H901



- NOTES:
1. NO EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION (PIPING, DUCTS, ETC.) SHALL ENTER THE DEDICATED SPACE ABOVE OR BELOW ELECTRICAL POWER EQUIPMENT INCLUDING SWITCHGEAR, SWITCHBOARDS, PANELBOARDS, & MOTOR CONTROL CENTERS.
2. PIPING SYSTEMS INSTALLED ABOVE THE DEDICATED ELECTRICAL SPACE SHALL BE ALLOWED WHERE DRIP PANS ARE INSTALLED TO CAPTURE LEAKS, RUPTURES OR CONDENSATION DRIPS. THE PIPING AND DRIP PANS SHALL BOTH BE OUTSIDE THE DEDICATED SPACE ENVELOPE.
3. WORK SPACE SHALL BE PROVIDED AT ALL EQUIPMENT UNDER 600V REQUIRING ACCESS INCLUDING BUT NOT LIMITED TO PANELS, DISCONNECTS, STARTERS, CONTROL PANELS INTEGRATED INTO HVAC/PLUMBING/FPF EQUIPMENT, ETC.
4. NO EQUIPMENT SHALL PROTRUDE INTO THE WORK SPACE.
5. WORK SPACE DEPTH BASED UPON NEC TABLE 110.28(A)(1) CONDITION 2 150V TO GROUND.

NV5 ELECTRICAL WORK AND DEDICATED SPACE H101

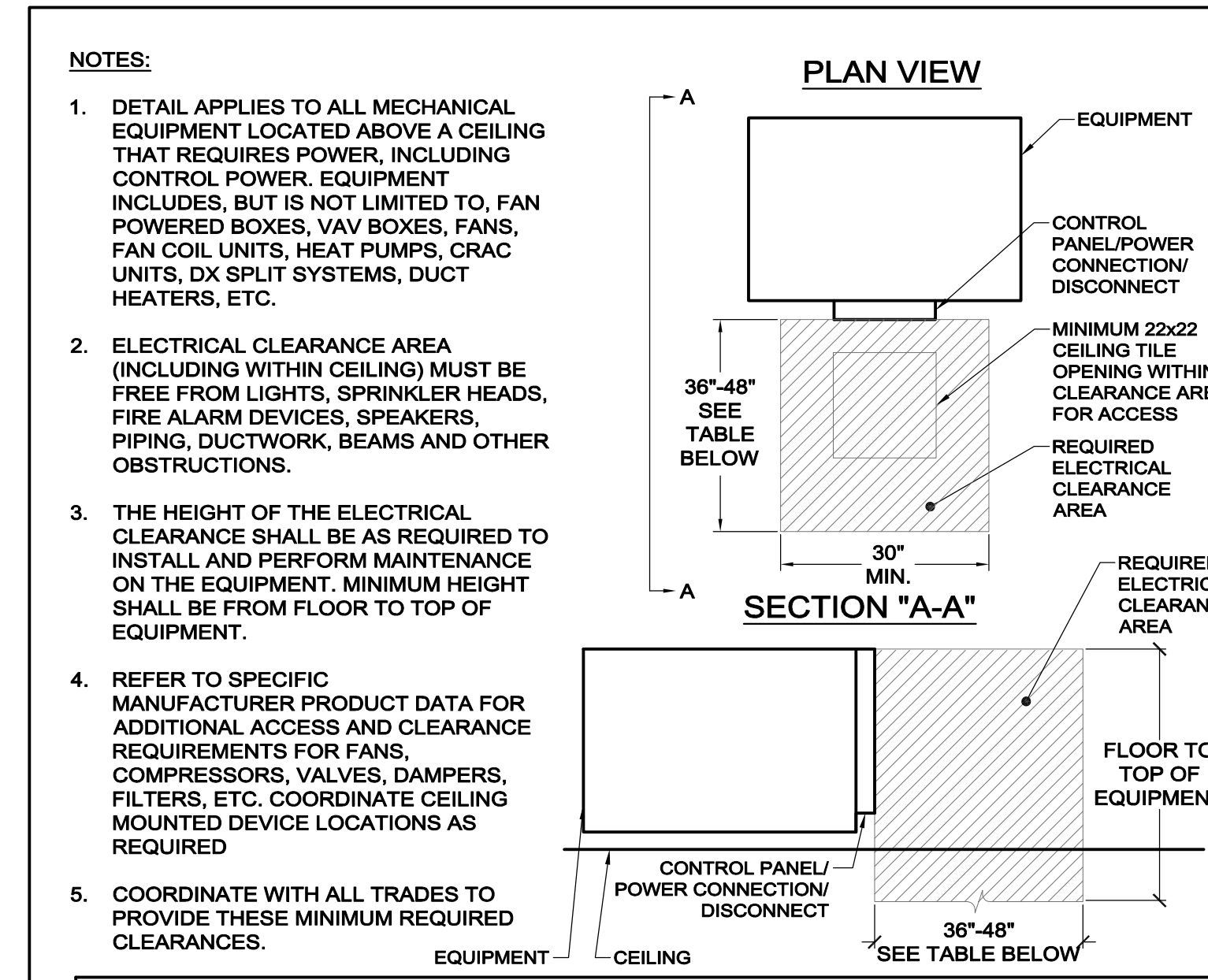


MINIMUM ELECTRICAL CLEARANCES (NEC 2017 COMPLIANCE)

VOLTAGE TO GROUND (SINGLE PHASE VOLTAGE)	CONDITION 1	CONDITION 2	CONDITION 3
0-150	36"	36"	36"
151-600	36"	42"	48"

CONDITION 1 - EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE THAT ARE EFFECTIVELY GUARDED BY INSULATING MATERIALS.
CONDITION 2 - EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. CONCRETE, BRICK, OR TILE WALLS SHALL BE CONSIDERED AS GROUNDED.
CONDITION 3 - EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE
NOTE: CLEARANCE WIDTH SHALL BE 30" OR THE WIDTH OF THE CONTROL PANEL/POWER CONNECTION, WHICHEVER IS GREATER

NV5 ELECTRICAL CLEARANCE MECHANICAL EQUIPMENT GWB CEILING H102

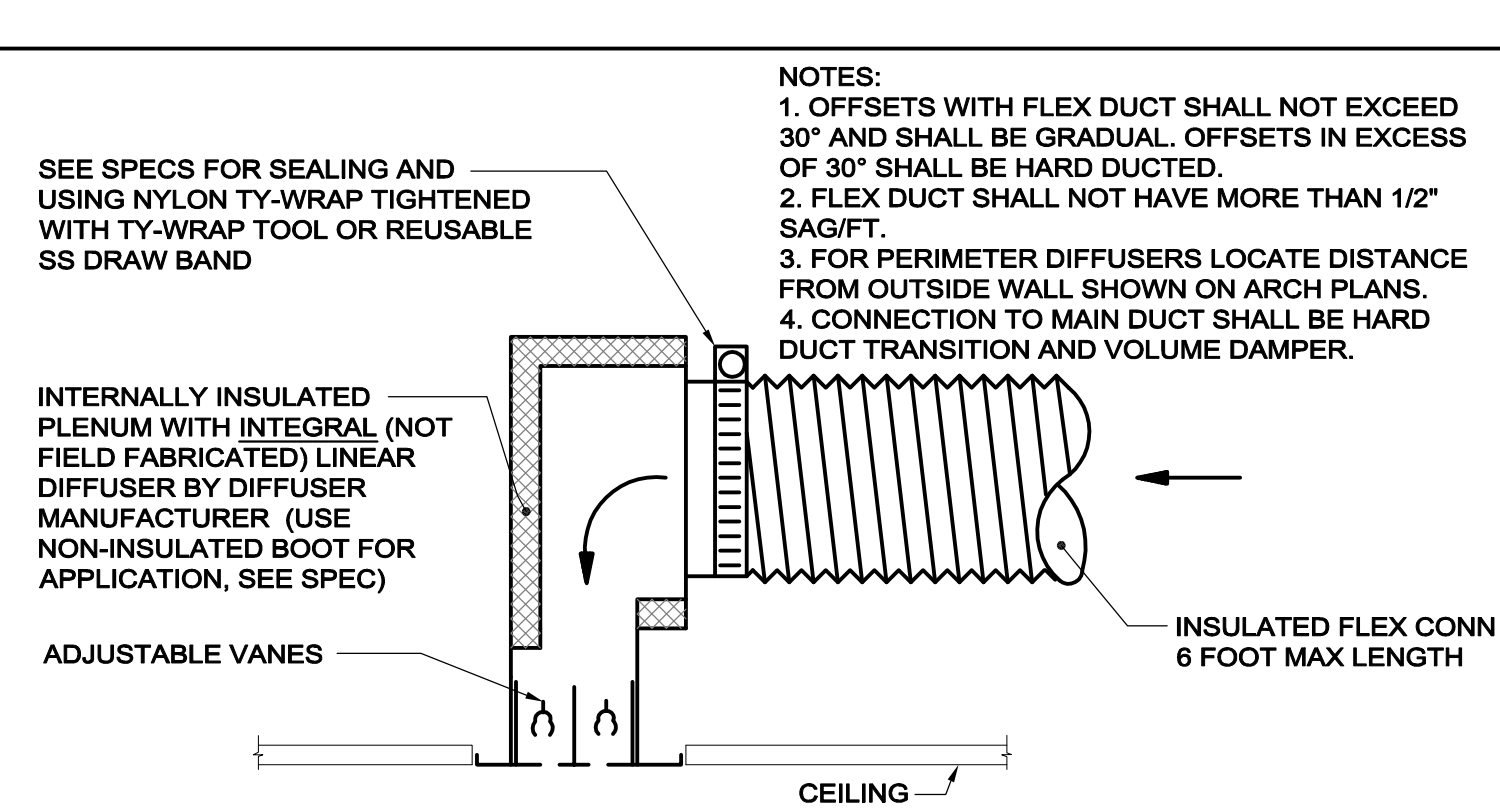


MINIMUM ELECTRICAL CLEARANCES (NEC 2017 COMPLIANCE)

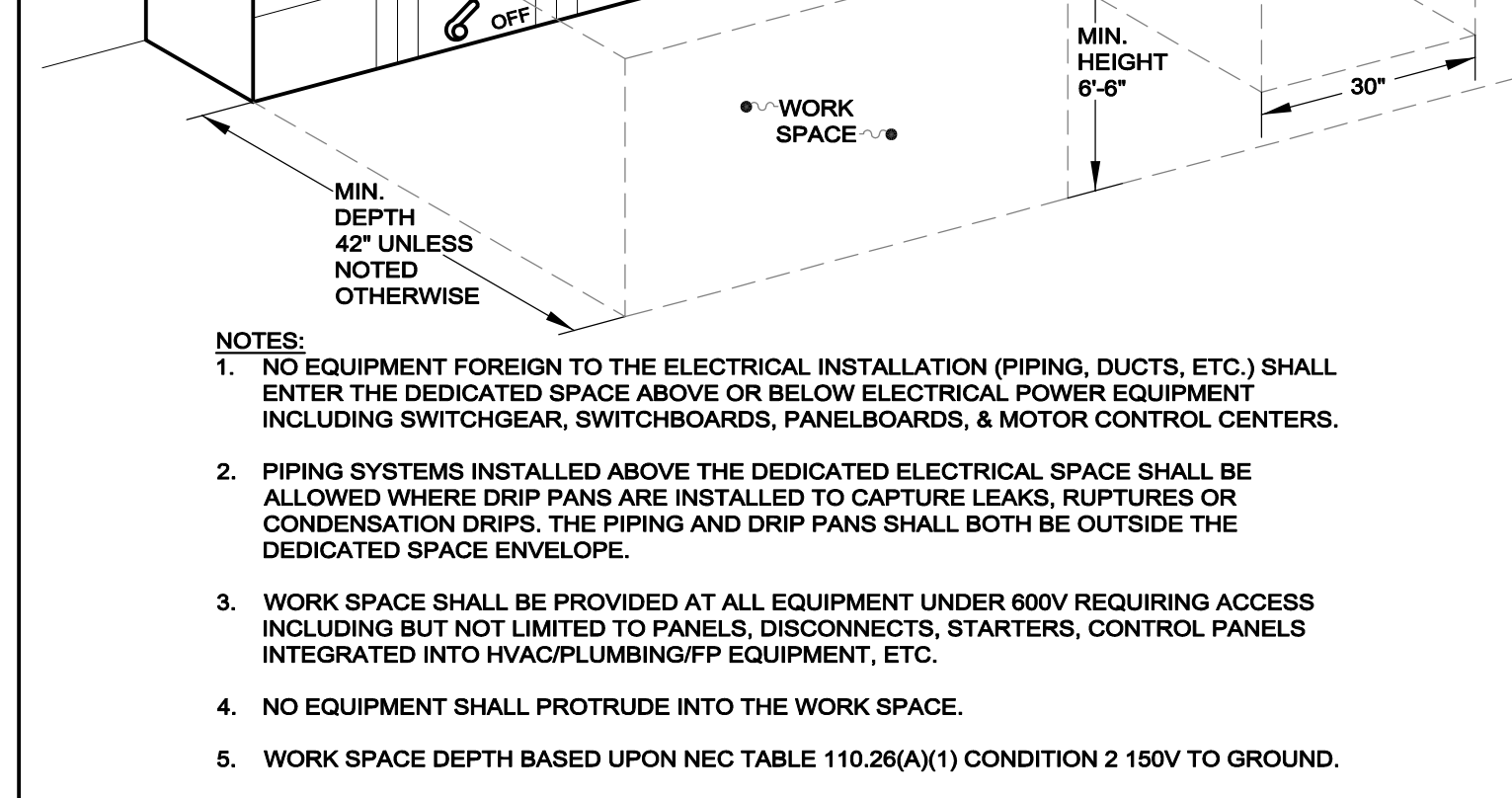
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NOTE: CLEARANCE WIDTH SHALL BE 30" OR THE WIDTH OF THE CONTROL PANEL/POWER CONNECTION, WHICHEVER IS GREATER

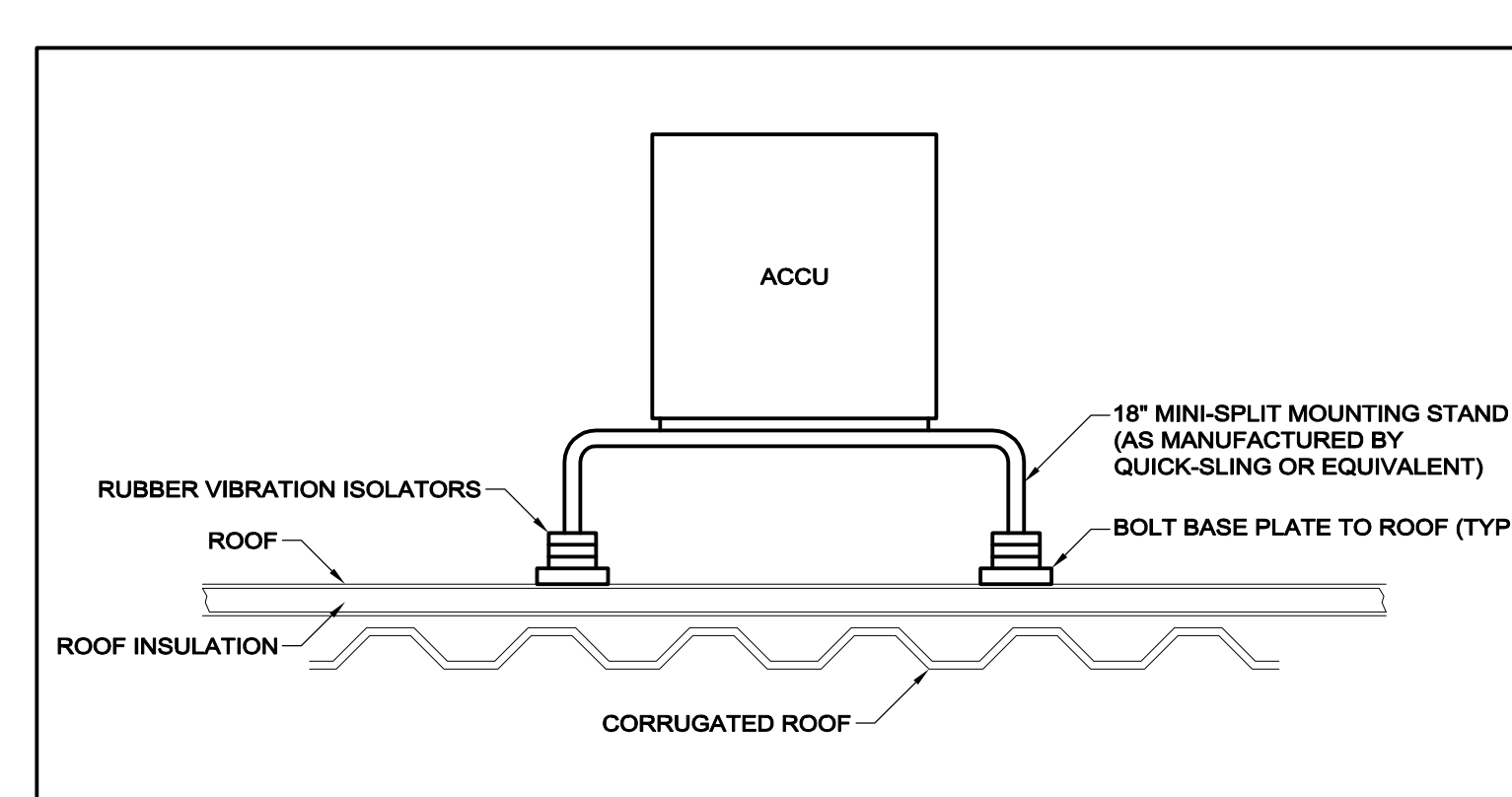
NV5 ELECTRICAL CLEARANCE MECHANICAL EQUIPMENT ATC CEILING H103



NV5 LINEAR DIFFUSER CONNECTION H1516

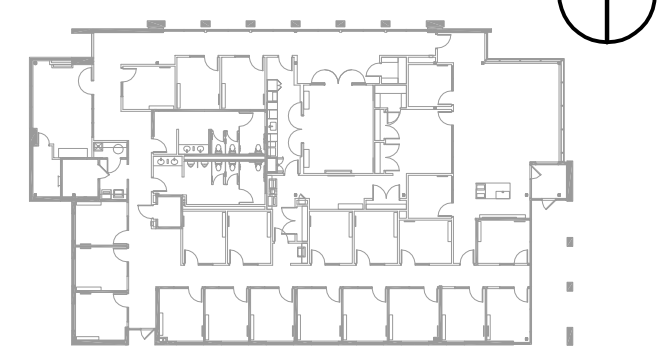


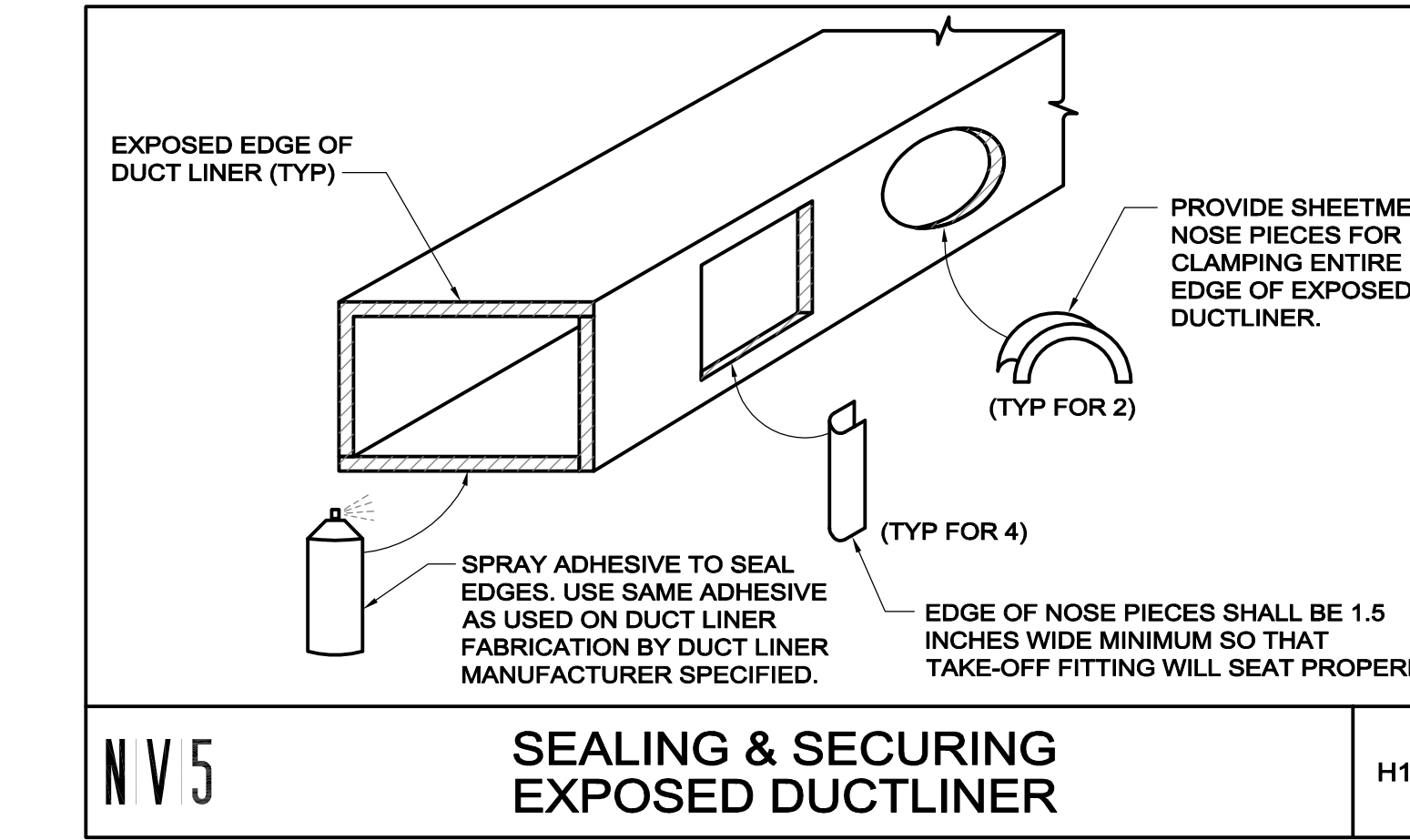
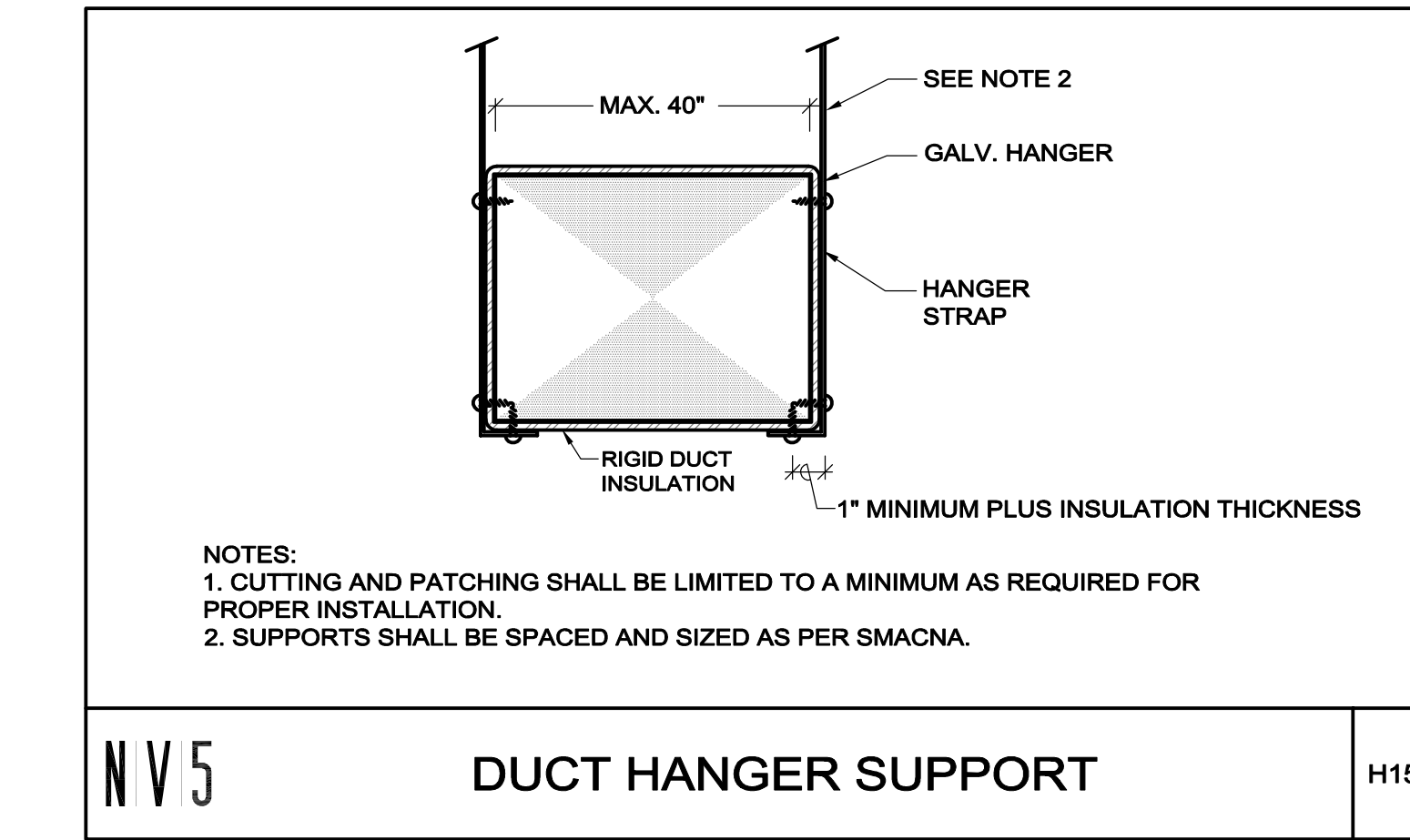
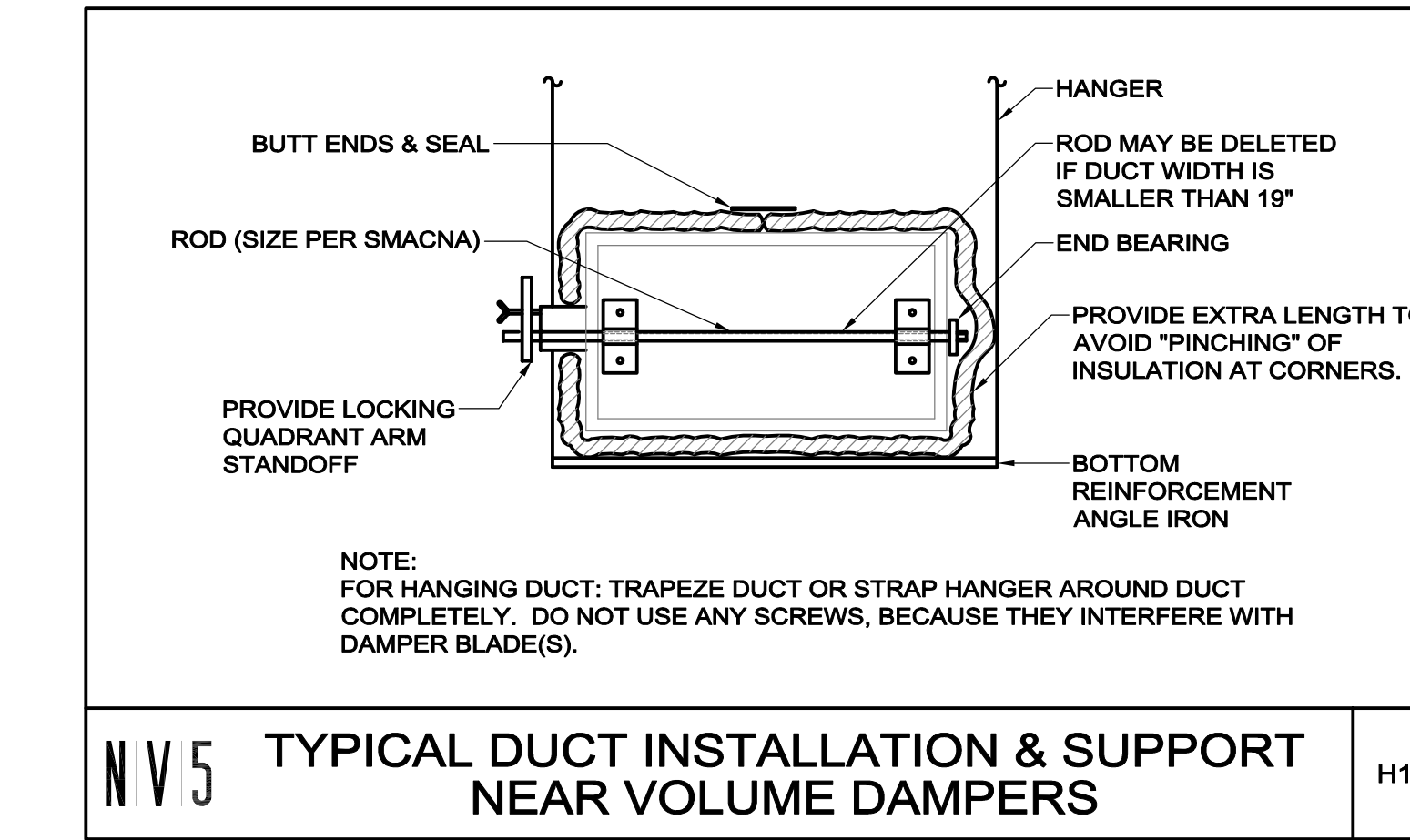
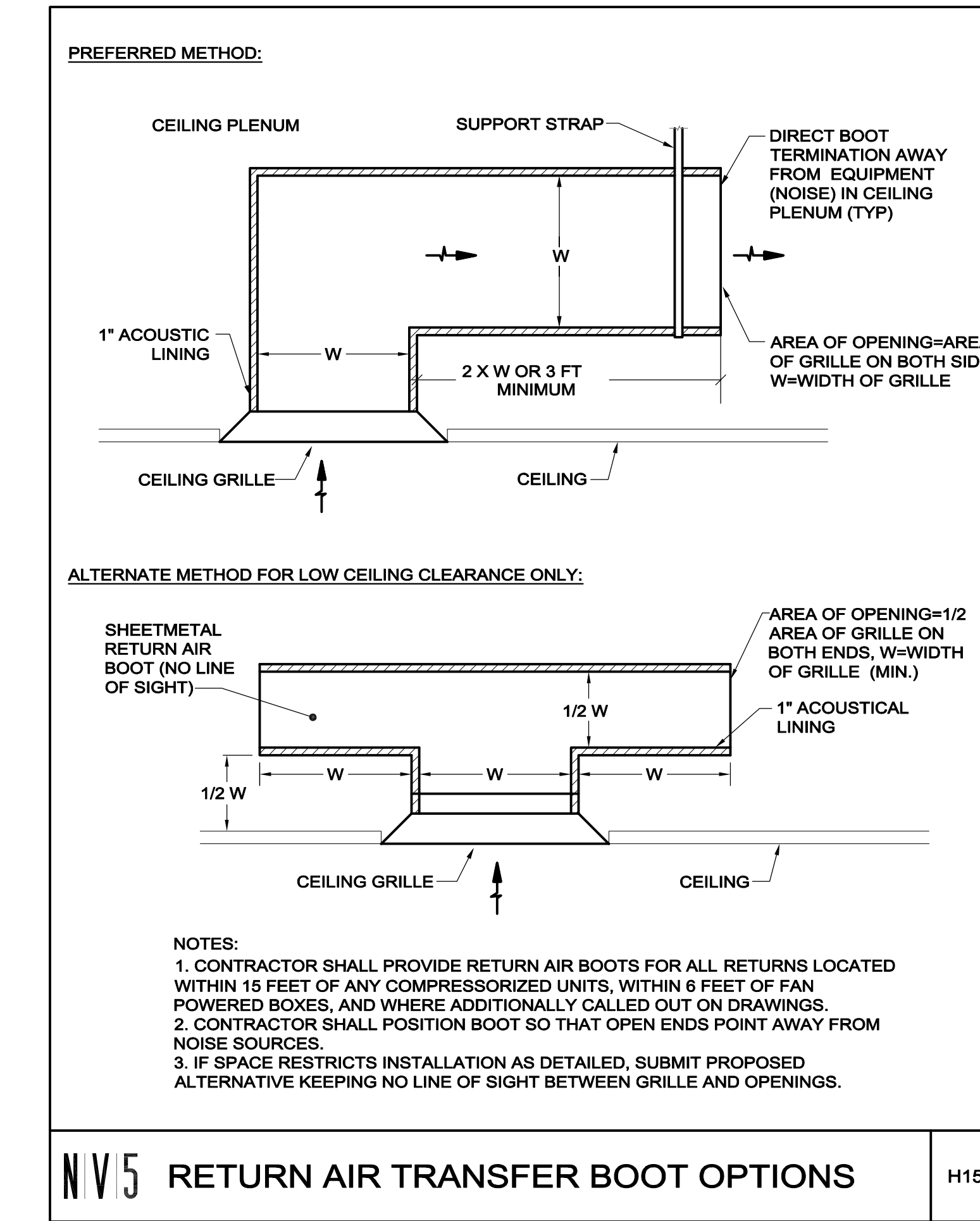
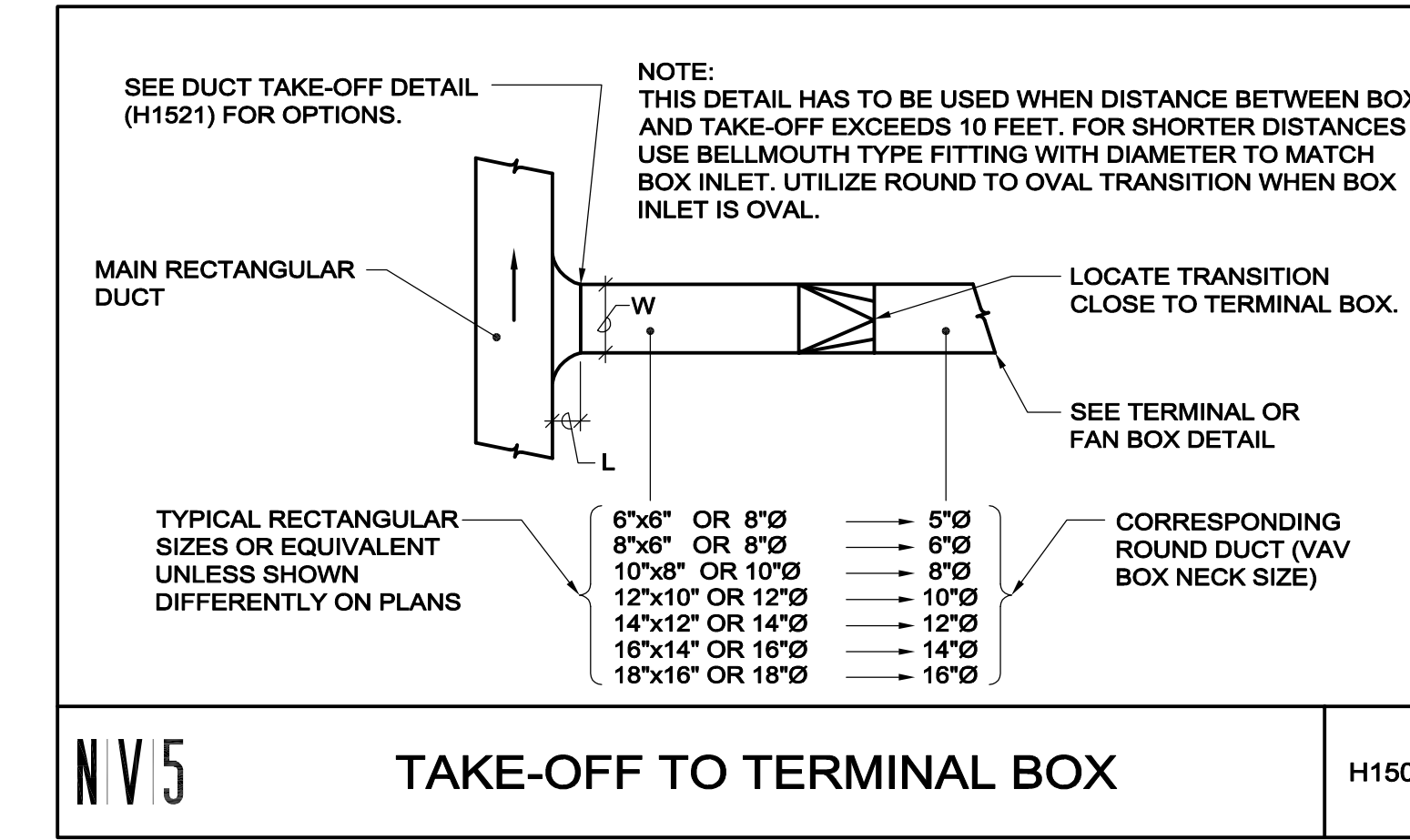
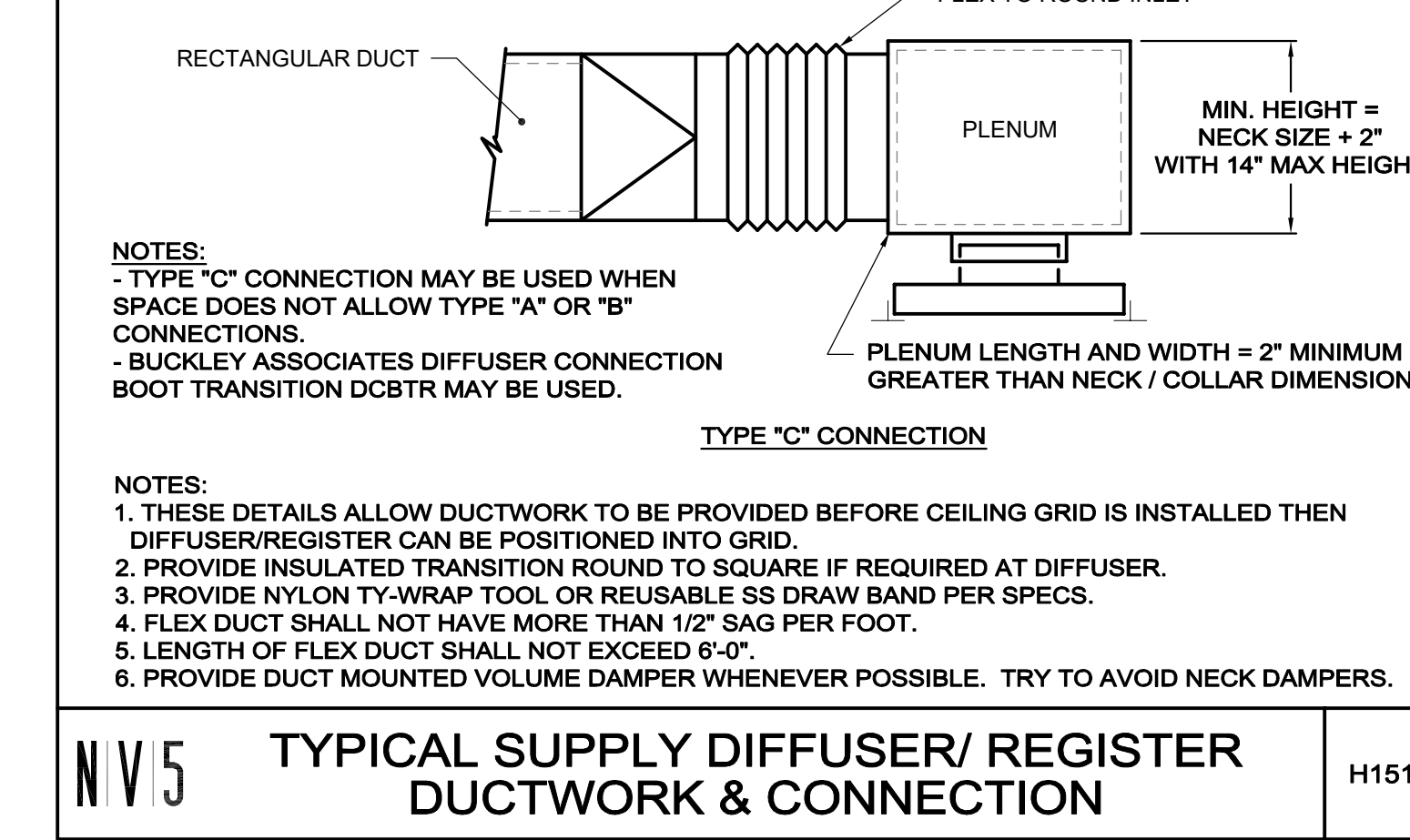
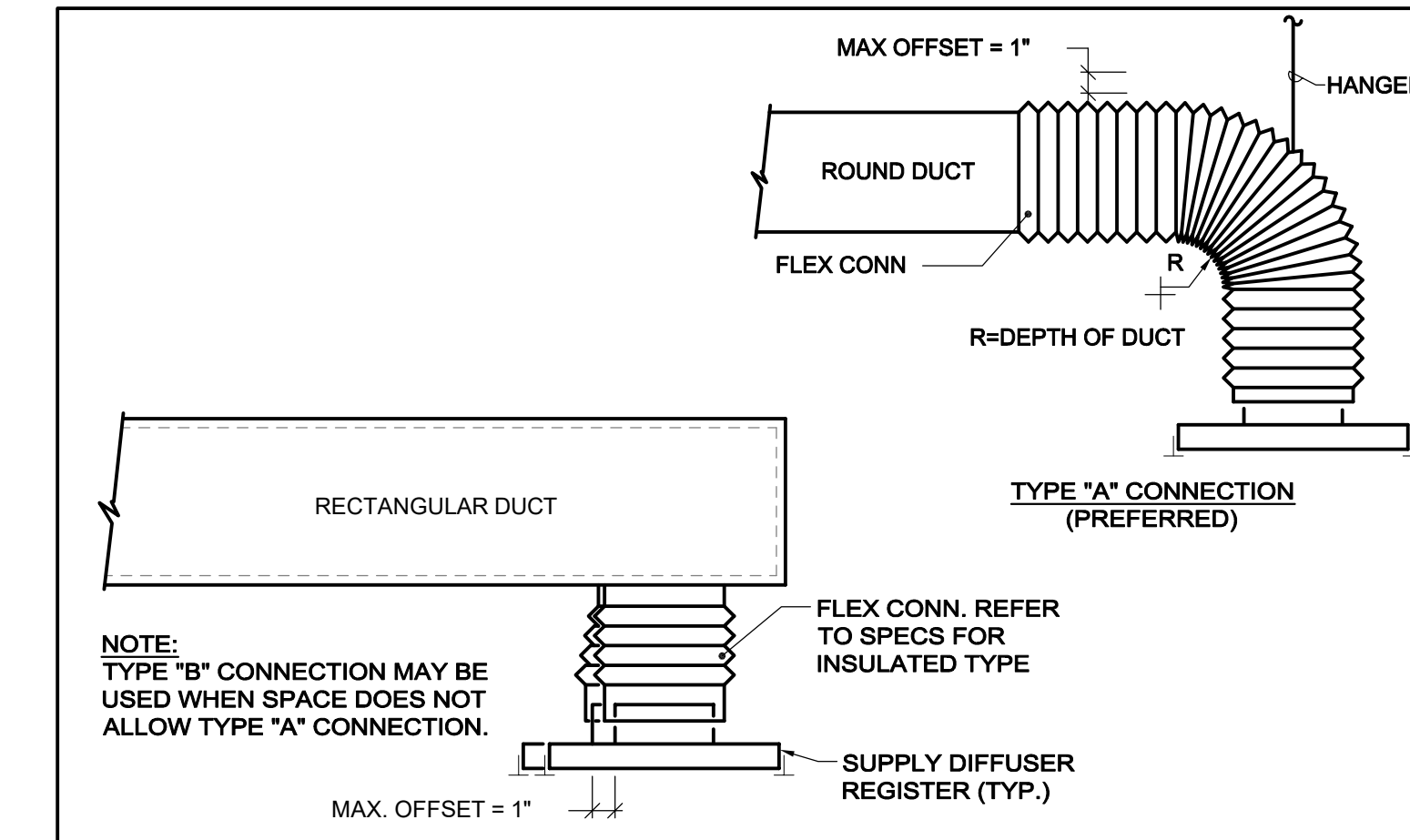
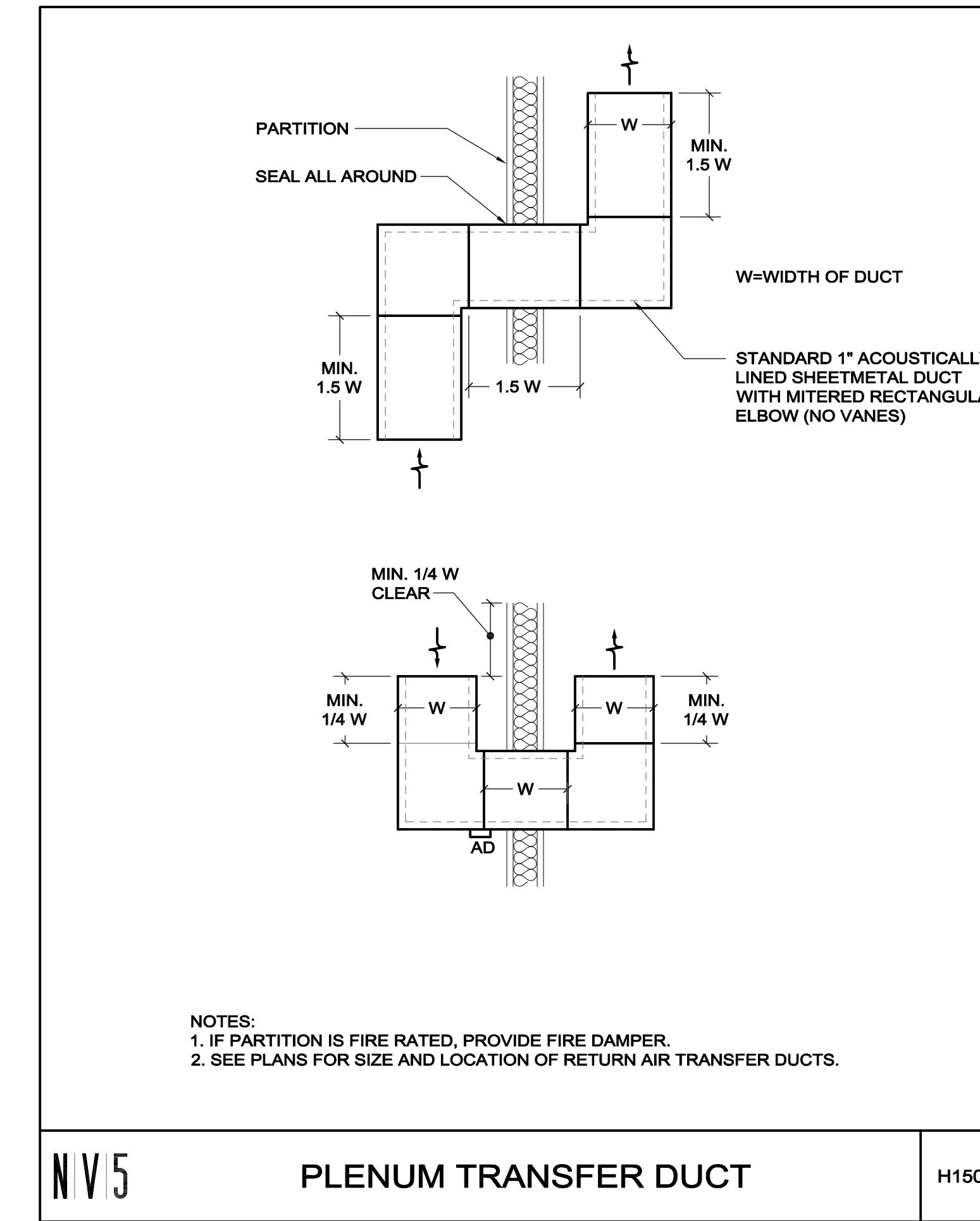
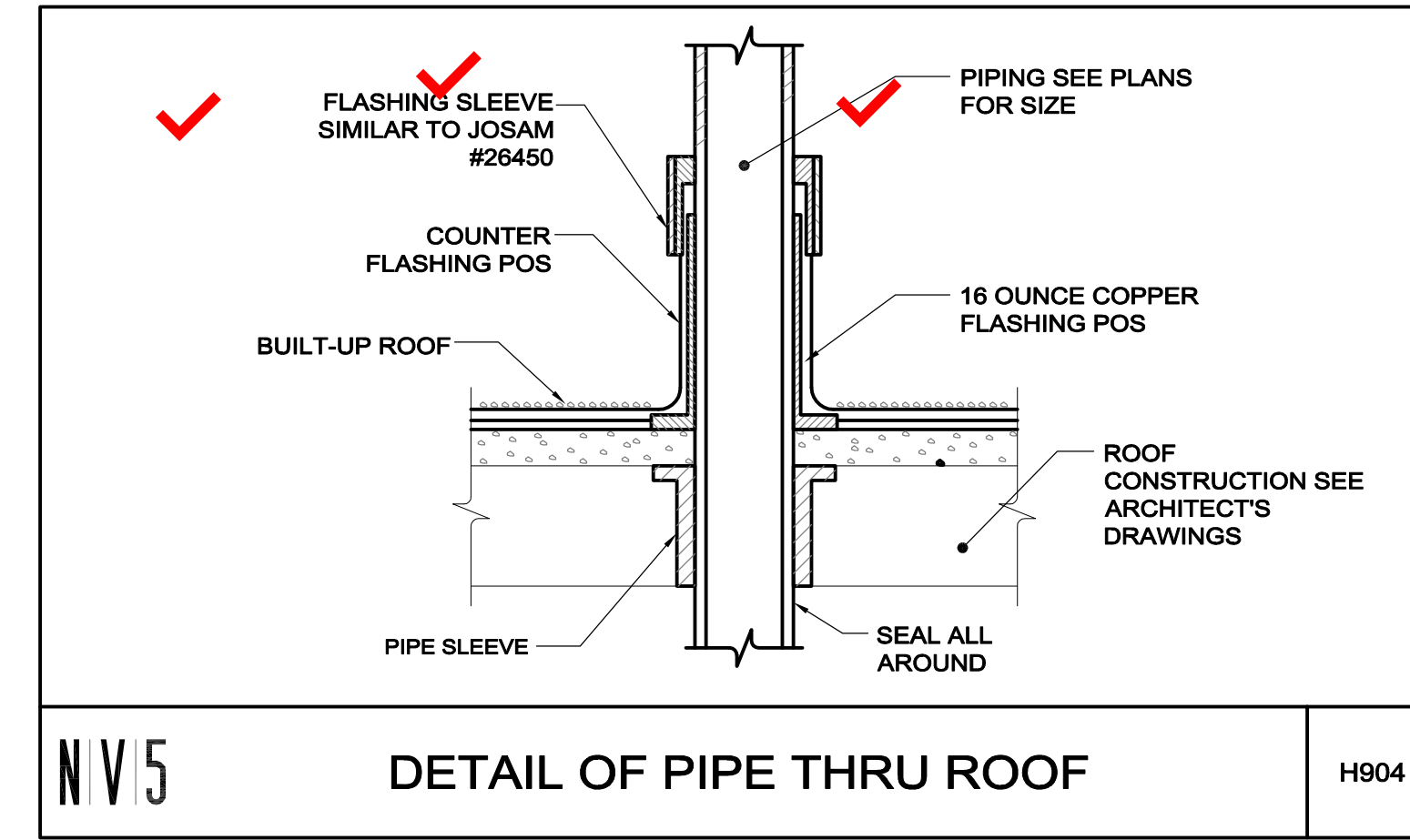
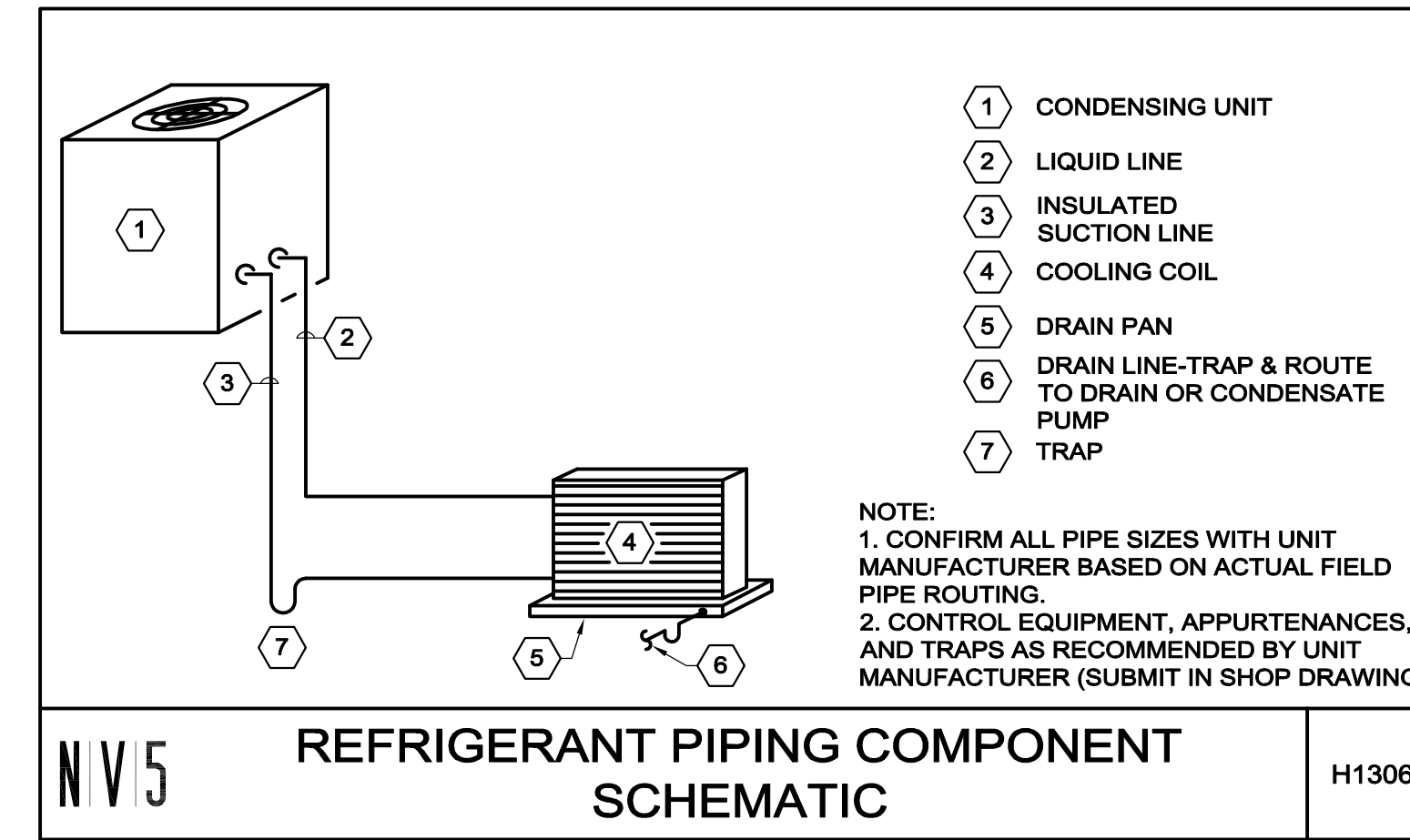
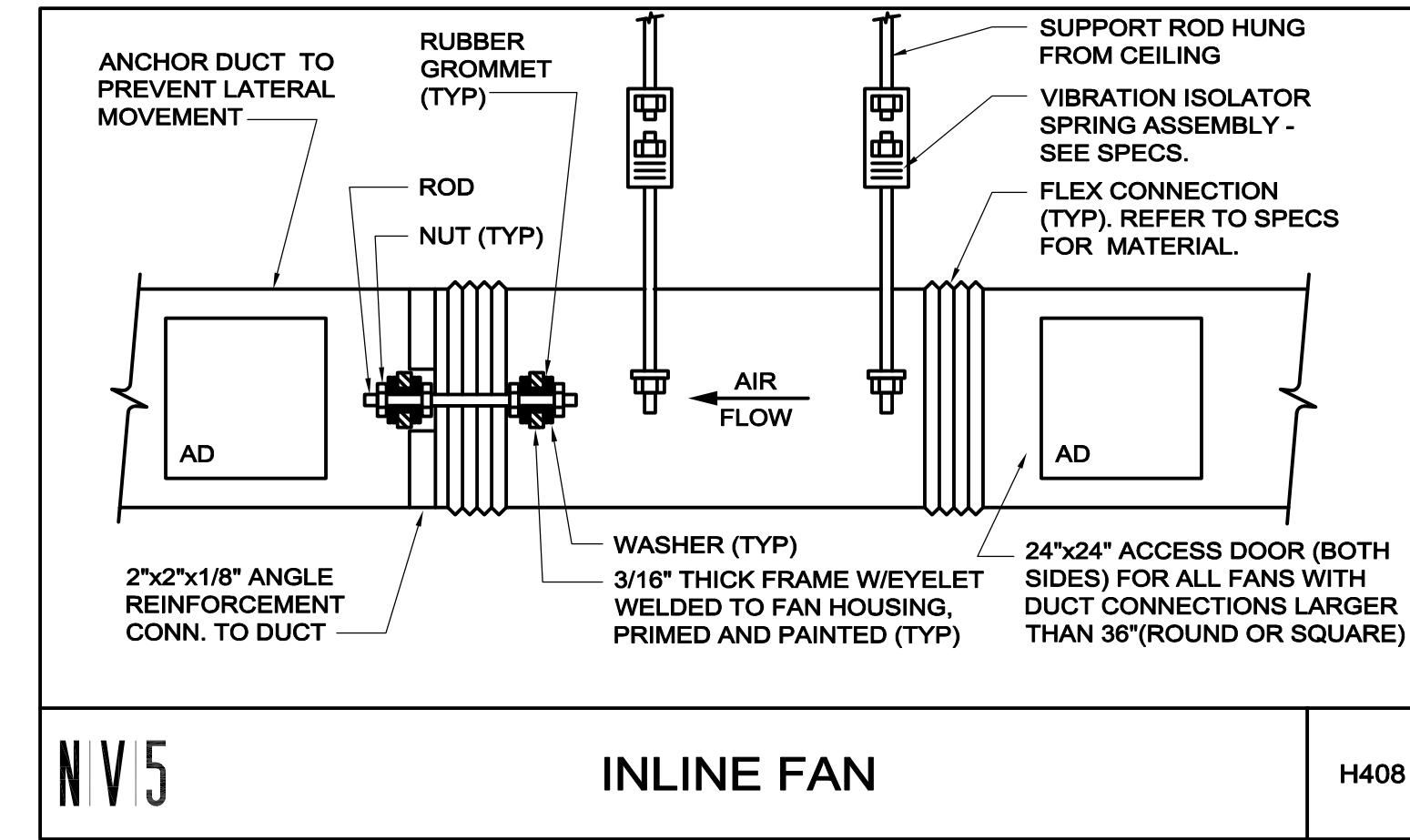
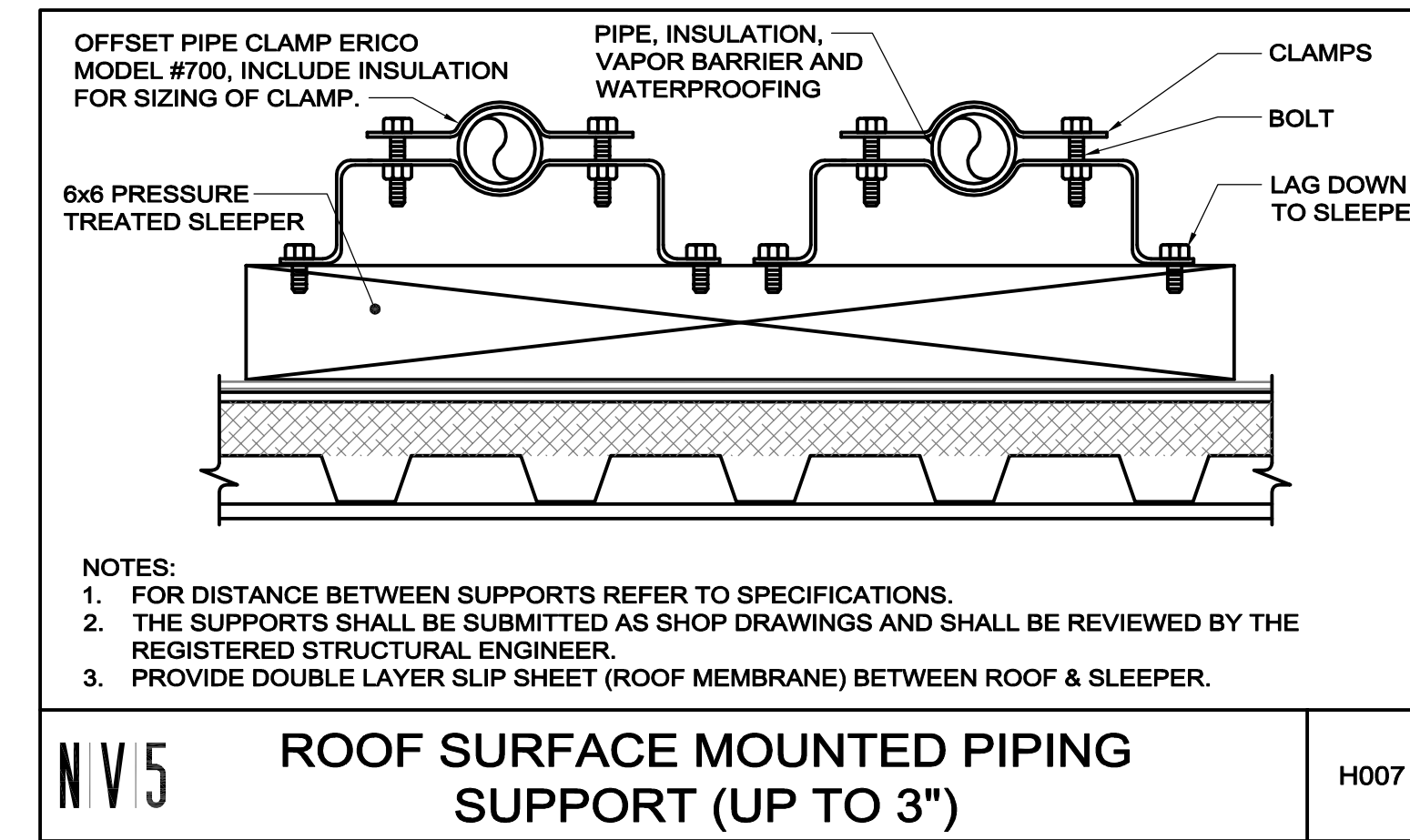
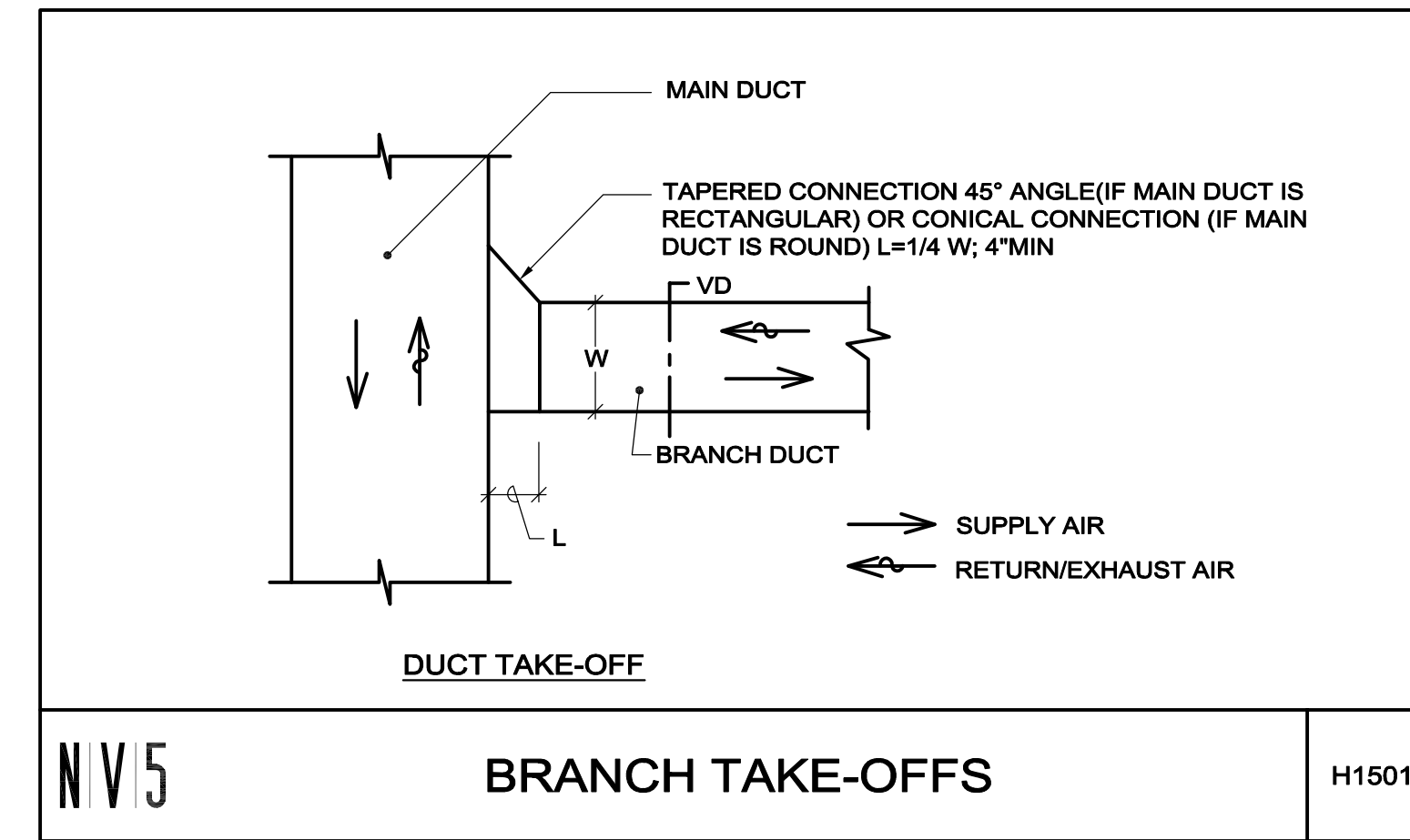
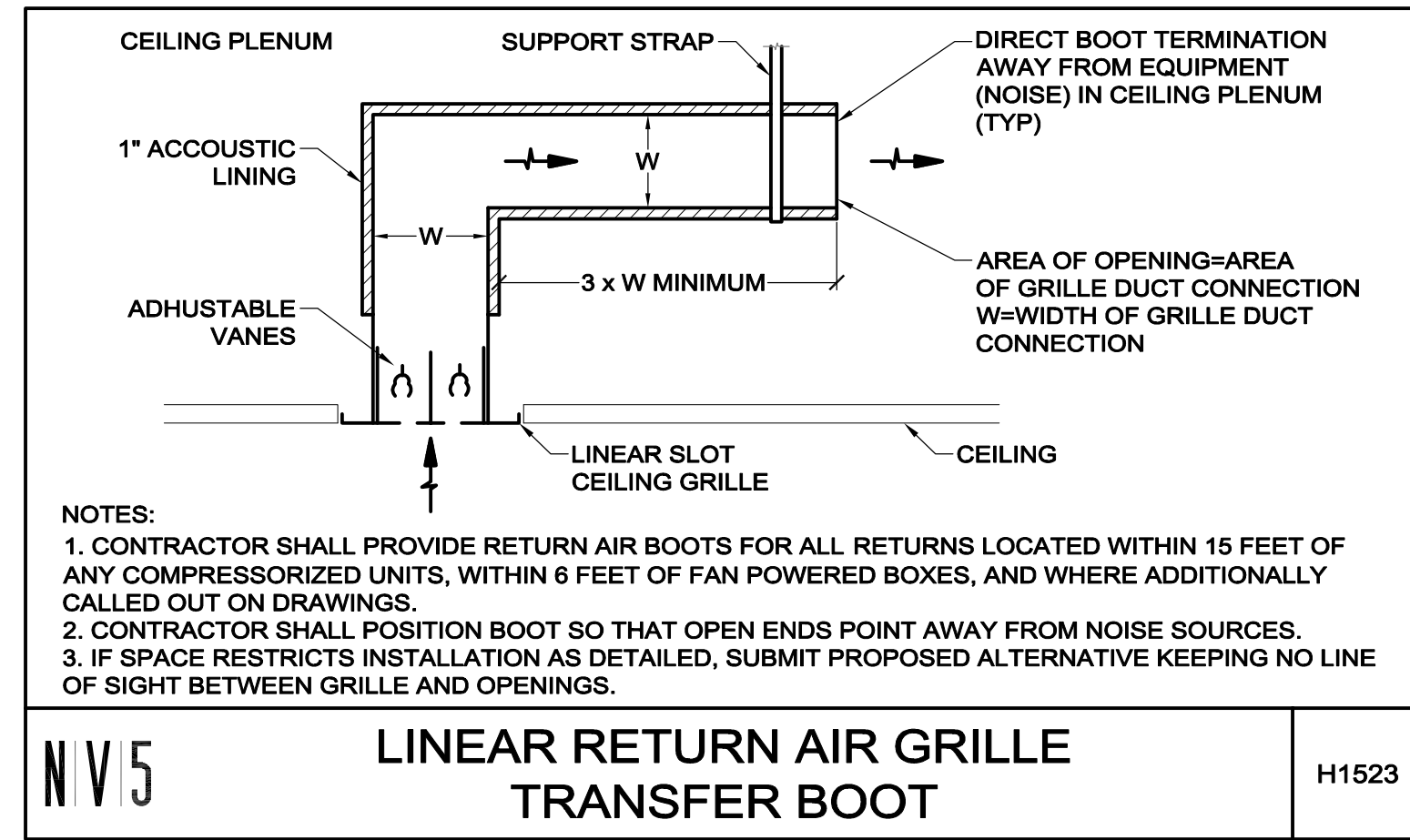
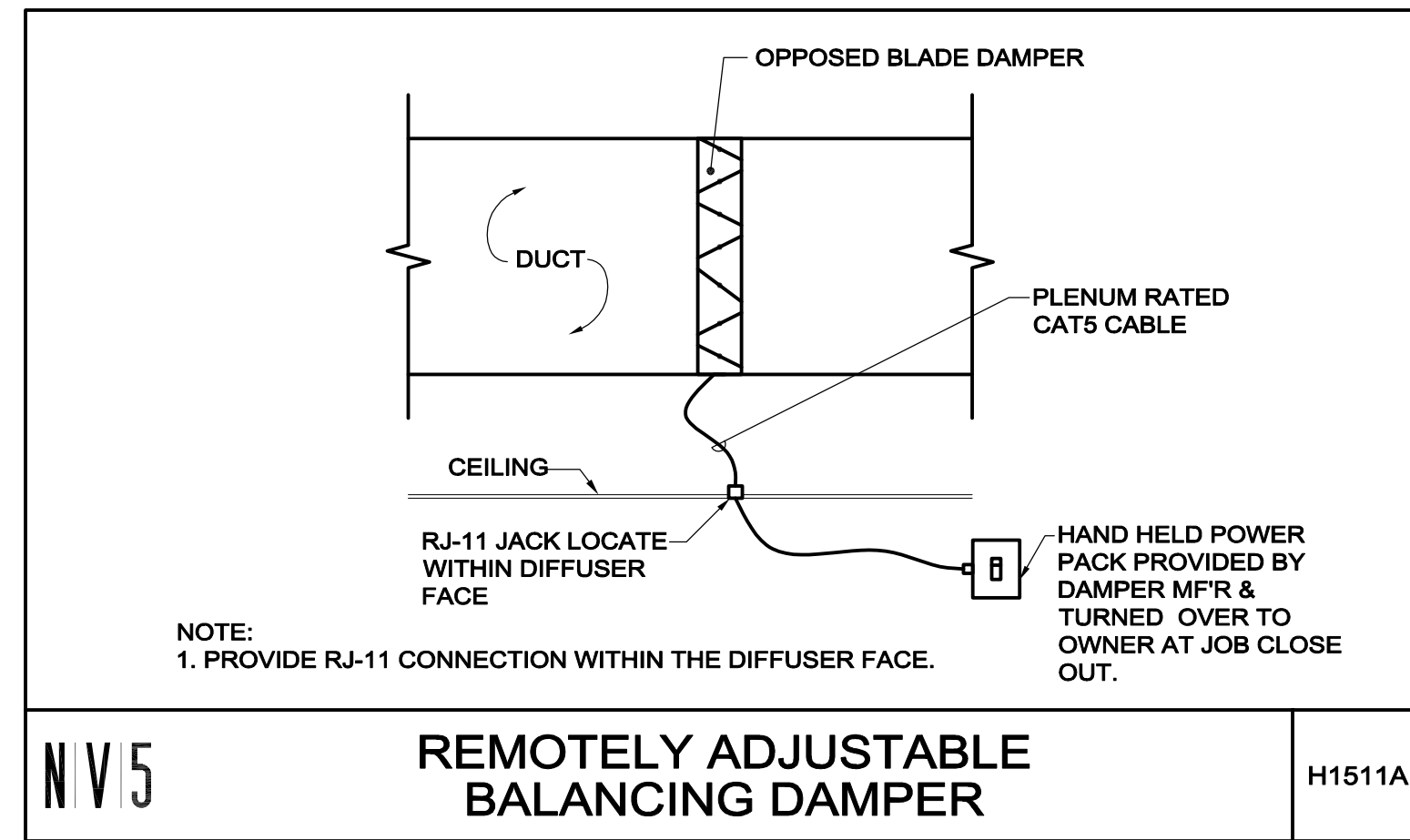
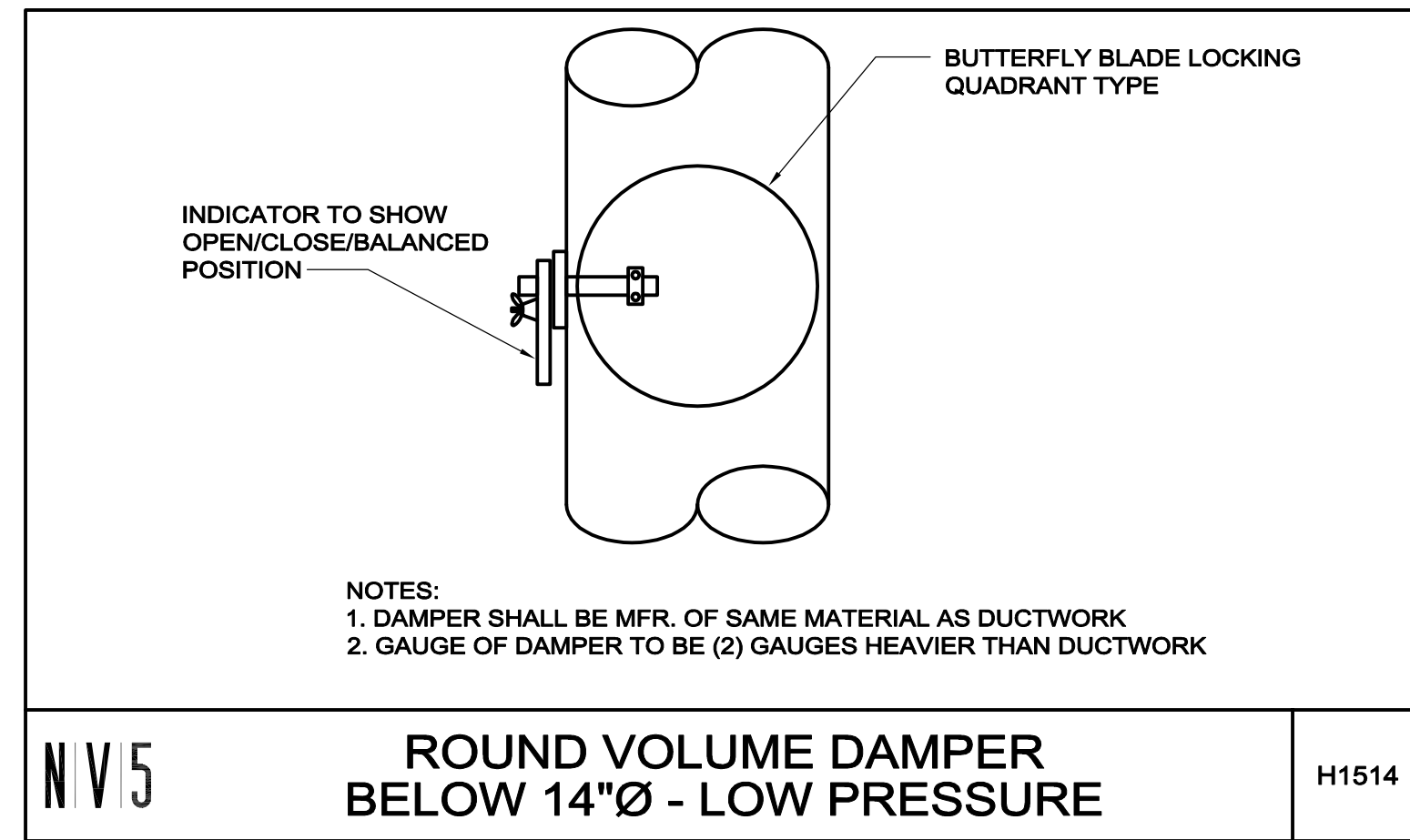
NV5 WALL HUNG MINI SPLIT ACU MOUNTING DETAIL H235



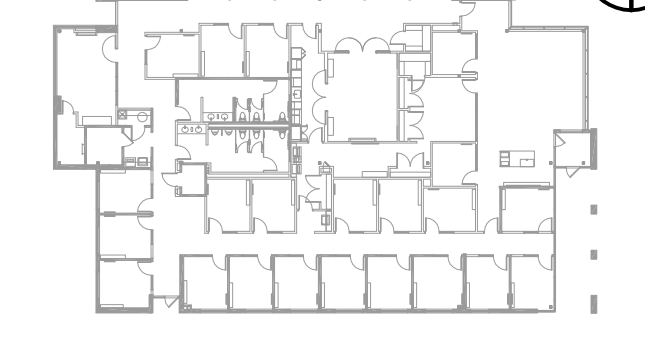
NV5 ACCU ON SNOW STAND DETAIL H1307

Number	Description	Date
	ISSUED FOR PERMIT & CONST.	31 JUL 19





Number	Description	Date
1	ISSUED FOR PERMIT & CONST.	31 JUL 19



DUCTLESS SPLIT AIR-CONDITIONING UNIT SCHEDULE																		
INDOOR UNIT							OUTDOOR CONDENSING UNIT											
TAG	LOCATION	MANUFACTURER AND MODEL NUMBER (AS STANDARD)	COOLING CAPACITY (BTU)		FAN DATA (CFM)	REFRIGERANT TYPE	TAG	LOCATION	SOUND PRESSURE DB(A)	DESIGN AMBIENT TEMP (°F)		MANUFACTURER AND MODEL NUMBER (AS STANDARD)	ELECTRICAL DATA			EFFICIENCY SEER	REMARKS	
			TOTAL	SENSIBLE	TOTAL					SUMMER	WINTER		V	PH	HZ			MCCP
ACU-LAN	LAN ROOM	MITSUBISHI PKA-A24KA	24,000	18,000	775	R410A	ACCU-LAN	ROOF	48	95	-5	MITSUBISHI PUY-A24NHA	208	1	60	30	17	SEE NOTES

NOTES:
1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
2. DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR.
3. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
4. INDOOR UNIT - PROVIDE WIRELESS REMOTE THERMOSTAT.
5. REFRIGERANT PIPE SIZES AND REQUIRED ACCESSORIES SHALL BE PER MANUFACTURERS RECOMMENDATIONS.
6. LOCATE AIR COOLED CONDENSING UNIT ON ROOF.
7. PROVIDE WITH SNOW STAND AND WIND BAFFLE. PROVIDE ANY ACCESSORIES REQUIRED FOR COOLING DOWN TO -5°F AMBIENT TEMPERATURE.

CONDENSATE PUMP SCHEDULE													
TAG	SERVICE	LOCATION	REC. CAP. GAL.	FLUID TEMP. (°F)	DISCHARGE PRESS. (FT)	PUMP CAP. (GPM)	ELECTRICAL				MANUFACTURER AND MODEL NUMBER (AS STANDARD)	REMARKS	
							HP	V	PH	AMPS			
CP-LAN	WSHP-LAN	WALL	1	55	12	4	1/10	120	1	3.1		HARTELL A2X-1965	SEE NOTES

NOTES:
1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
2. CONDENSATE PUMP SHALL BE HARD WIRED AND PLENUM RATED

DUCTWORK PRESSURE CLASS AND SEAL CLASS					
PRESSURE CLASS	STATIC PRESSURE CLASS	SMACNA SEAL CLASS	SMACNA LEAKAGE CLASS		DESIGN VELOCITY LIMITS
			RECTANGULAR	ROUND	
4"	4" POS. OR NEG.	A	6	3	3000 FPM OR LESS
2"	2" POS. OR NEG.	A	6	3	2000 FPM OR LESS

UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE DRAWINGS, USE THE FOLLOWING PRESSURE CLASSIFICATIONS FOR THE TYPES OF DUCTWORK LISTED BELOW

4" (POS) CLASS: ALL SUPPLY DUCTWORK BETWEEN THE DISCHARGE OF AIR SUPPLY UNITS TO THE INLETS OF SUPPLY TERMINAL VOLUME BOXES.
2" CLASS: ALL OTHER DUCTWORK.

NOTES:
1. CONTRACTOR SHALL LEAK TEST (SUBMIT REPORT) A MINIMUM OF 25% OF THE SURFACE AREA FOR ALL DUCTWORK ABOVE PRESSURE CLASS 3" AND 100% OF ALL DUCTWORK LOCATED OUTDOORS.
2. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.

MINIMUM DUCT INSULATION R-VALUES (IECC - 2009 AND ASHRAE 90.1-2013 COMPLIANCE)					
LOCATION	SUPPLY	RETURN	RAW OUTDOOR AIR	EXHAUST	
				WITH ENERGY RECOVERY	WITHOUT ENERGY RECOVERY
RETURN AIR PLENUM	R-4	-0-	R-4	-0-	-0-

DUCT LINING SCOPE: ACOUSTIC DUCT LINING OF THE TYPE AND THICKNESS SPECIFIED SHALL BE INSTALLED ON ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK WITHIN 20 FEET OF ALL TYPES OF AIR HANDLING UNITS (INCLUDING RTU AND ALL BRANCHES WITHIN 20') (INCLUDING BRANCHES, ALL LOW PRESSURE DUCTWORK UPSTREAM AND DOWNSTREAM OF FAN POWERED BOXES, FANS, HEAT PUMPS, AND ALL TRANSFER DUCTS) AND WHERE DETAILED OR SHOWN ON DRAWINGS.

NOTES: (SEE SPECIFICATIONS FOR R-VALUES OF VARIOUS DUCT INSULATION AND LINERS).

1. R-VALUES SHOWN MAY BE OBTAINED BY ADDING THE R-VALUES OF BOTH THE LINING (WHERE SHOWN OR USED) AND EXTERNAL DUCT INSULATION.
2. R-VALUES SHOWN ARE AS INSTALLED. USE R-VALUES FOR 25% COMPRESSION FOR NON-RIGID INSULATION.
3. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.

PIPE INSULATION (IECC - 2009 AND ASHRAE 90.1 -2013 COMPLIANCE)						
MINIMUM INSULATION THICKNESS IN INCHES FOR INDOOR PIPE SIZES (SEE NOTES BELOW)						
PIPING SYSTEM TYPES	FLUID TEMP. RANGE (°F)	PIPE SIZE				
		< 1"	1" & 1 1/4"	1 1/2" - 3"	4" - 6"	8" & UP
REFRIGERANT OR CONDENSATE DRAIN	≤ 60	0.5	1	1	1	1.5

NOTES:
1. FOR MINIMUM THICKNESS OF ALTERNATIVE INSULATION TYPES OUTSIDE THE STATED CONDUCTIVITY RANGE, SEE TEST METHOD FOR STEADY STATE HEAT TRANSFER PROPERTIES OF HORIZONTAL PIPE INSULATIONS, ASTM C 335-95, AND THE STATE ENERGY CODE.
2. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.

VENTILATION SCHEDULE									
UNIT	ROOM USE	PER AREA			PER PERSON			UNCORRECTED TOTAL CFM	TOTAL REQUIRED CFM
		AREA (SF)	CFM/SF	CFM	PEOPLE	CFM/PERSON	CFM		
FB-1	OFFICE	280	0.06	17	0	5	0	17	21
FB-2	OFFICE	280	0.06	17	0	5	0	17	21
FB-3	OFFICE	272	0.06	16	8	5	40	56	70
FB-4	OFFICE	338	0.06	20	3	5	15	35	44
FB-5	OFFICE	397	0.06	24	3	5	15	39	48
FB-6	OFFICE	609	0.06	36	4	5	20	56	70
FB-7	OFFICE	400	0.06	24	1	5	5	29	36
FB-8	OFFICE	449	0.06	27	14	5	70	100	121
FB-9	OFFICE	500	0.06	30	1	5	5	35	44
FB-10	OFFICE	467	0.06	28	4	5	20	48	60
FB-11	OFFICE	950	0.06	57	8	5	40	97	121
FB-12	OFFICE	110	0.06	7	1	5	5	12	15
FB-13	OFFICE	110	0.06	7	1	5	5	12	15

OUTDOOR AIR DESIGN TEMPERATURES		
	DRY BULB (°F)	WET BULB (°F)
SUMMER	91	75
WINTER	-3	-4

NOTE: FOR AIR SUPPLIED TO THE BUILDING ONLY.

SERIES FAN BOX SCHEDULE WITH ELECTRIC HEATING COIL																				
TAG	PRIMARY CFM RANGE		PRIMARY INLET SIZE (IN.)	MAX. BOX S.P. DROP	AIRBORNE N.C.		FAN DATA						ELECTRIC COIL				MANUFACTURER AND MODEL NUMBER (AS STANDARD)	REMARKS		
	MIN	MAX			FULL SPEED FAN @ 100% PRIMARY @ 1.0 IN. S.P.	EXT. S.P.	MOTOR						EAT (°F)		LAT (°F)					
	HP	V			PH	AMPS	HP	V	PH	FLA	KW	STEPS	EAT (°F)	LAT (°F)	V	PH			HZ	
FB-1	300	1200	12	0.5	30	0.3	3/4	277	1	60	5.5	8.0	SCR	65	86	480	3	60	ENVIRO-TEC CFR1221	SEE NOTES
FB-2	300	1200	12	0.5	30	0.3	3/4	277	1	60	5.5	8.0	SCR	65	86	480	3	60	ENVIRO-TEC CFR1221	SEE NOTES
FB-3	190	760	10	0.5	30	0.3	1/2	277	1	60	4.1	5.0	SCR	65	86	480	3	60	ENVIRO-TEC CFR1018	SEE NOTES
FB-4	260	1040	10	0.5	30	0.3	1/2	277	1	60	4.1	7.0	SCR	65	86	480	3	60	ENVIRO-TEC CFR1018	SEE NOTES
FB-5	275	1100	10	0.5	30	0.3	1/2	277	1	60	4.1	7.0	SCR	65	85	480	3	60	ENVIRO-TEC CFR1018	SEE NOTES
FB-6	325	1300	12	0.5	30	0.3	3/4	277	1	60	5.5	9.0	SCR	65	87	480	3	60	ENVIRO-TEC CFR1221	SEE NOTES
FB-7	250	1000	10	0.5	30	0.3	1/2	277	1	60	4.1	7.0	SCR	65	87	480	3	60	ENVIRO-TEC CFR1018	SEE NOTES
FB-8	195	775	10	0.5	30	0.3	1/2	277	1	60	4.1	5.0	SCR	65	85	480	3	60	ENVIRO-TEC CFR1018	SEE NOTES
FB-9	325	1290	12	0.5	30	0.3	3/4	277	1	60	5.5	9.0	SCR	65	87	480	3	60	ENVIRO-TEC CFR1221	SEE NOTES
FB-10	290	1150	12	0.5	30	0.3	3/4	277	1	60	5.5	8.0	SCR	65	87	480	3	60	ENVIRO-TEC CFR1221	SEE NOTES
FB-11	355	1420	12	0.5	30	0.3	3/4	277	1	60	5.5	9.0	SCR	65	85	480	3	60	ENVIRO-TEC CFR1221	SEE NOTES
FB-12	100	400	6	0.5	30	0.3	1/3	277	1	60	2.6	3.0	SCR	65	89	480	3	60	ENVIRO-TEC CFR0811	SEE NOTES
FB-13	140	560	8	0.5	30	0.3	1/3	277	1	60	2.6	4.0	SCR	65	88	480	3	60	ENVIRO-TEC CFR0811	SEE NOTES

NOTES:
1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
2. MOTORS SHALL BE ECM TYPE.
3. PROVIDE WITH INSULATED HOUSING, VIBRATION ISOLATION, HANGER BRACKET, AND THREE SETS OF FILTERS.
4. CONFIRM COIL AND CONTROL HAND WITH COORDINATED HVAC PLANS.
5. DISCONNECT SWITCH SHALL BE PROVIDED BY ELECTRICAL.

FAN SCHEDULE													
TAG	SERVICE	LOCATION	CFM	FAN TYPE	E.S.P. (IN.WG)	WHEEL		MOTOR			MANUFACTURER AND MODEL NUMBER (AS STANDARD)	REMARKS	
						TYPE	DRIVE	RPM	HP	V			PH
EF-3	ELECTRIC ROOM EXHAUST	PLENUM	700	INLINE	0.25	BI	DIRECT	1064	1/4	120	1	GREENHECK SQ-100-VG	SEE NOTES

NOTES:
1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
2. PROVIDE WITH VARI-GREEN ECM MOTOR, NEOPRENE HANGING VIBRATION ISOLATION, INSULATED HOUSING, AND UNIT MOUNTED SPEED CONTROLLER.
3. UNIT MOUNTED DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.

ELECTRIC CABINET UNIT HEATER SCHEDULE														
TAG	LOCATION	TYPE	MOUNTING	INPUT (KW)	OUTPUT (MBH)	AIR		ELECTRIC SERVICE				MANUFACTURER AND MODEL NUMBER (AS STANDARD)	REMARKS	
						CFM	LAT (°F)	TOTALA MPS	V	PH	HZ			
ECU-1	VESTIBULE	HORIZ	HUNG	3.0	10.2	250	55	93	4.0	480	3	60	QMARK CU935	SEE NOTES

NOTES:
1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
2. PROVIDE WITH INTEGRAL TWO STAGE T-STAT.
3. UNIT MOUNTED DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.
4. PROVIDE BOTTOM INLET TOP OUTLET AIRFLOW PATTERN WITH DUCT COLLARS.

ELECTRIC BASEBOARD SCHEDULE										
TAG	LENGTH	WATTS PER FOOT	TOTAL WATTS	OUTPUT (MBH)	ELECTRIC SERVICE				MANUFACTURER AND MODEL NUMBER (AS STANDARD)	REMARKS
					AMPS	V	PH			
EBB-1	4'-0"	250	1000	3412	3.6	277	1		QMARK CSH07A	SEE NOTES
EBB-2	4'-0"	250	1000	3412	3.6	277	1		QMARK CSH07A	SEE NOTES
EBB-3	4'-0"	250	1000	3412	3.6	277	1		QMARK CSH07A	SEE NOTES
EBB-4	4'-0"	250	1000	3412	3.6	277	1		QMARK CSH07A	SEE NOTES
EBB-5	4'-0"	250	1000	3412	3.6	277	1		QMARK CSH07A	SEE NOTES
EBB-6	4'-0"	250	1000	3412	3.6	277	1		QMARK CSH07A	SEE NOTES
EBB-7	4'-0"	250	1000	3412	3.6	277	1		QMARK CSH07A	SEE NOTES
EBB-8	4'-0"	250	1000	3412	3.6	277	1		QMARK CSH07A	SEE NOTES
EBB-9	4'-0"	250	1000	3412	3.6	277	1		QMARK CSH07A	SEE NOTES
EBB-10	4'-0"	250	1000	3412	3.6	277	1		QMARK CSH07A	SEE NOTES
EBB-11	4'-0"	250	1000	3412	3.6	277	1		QMARK CSH07A	SEE NOTES
EBB-12	4'-0"	250	1000	3412	3.6	277	1		QMARK CSH07A	SEE NOTES
EBB-13	4'-0"	250	1000	3412	3.6	277	1		QMARK CSH07A	SEE NOTES
EBB-14	4'-0"	250	1000	3412	3.6	277	1		QMARK CSH07A	SEE NOTES

NOTES:
1. REFER TO SPECIFICATIONS AND CONTROL DIAGRAMS FOR ADDITIONAL INFORMATION.
2. PROVIDE WITH INTEGRAL CONCEALED DISCONNECT PREWIRED TO THE UNIT. DISCONNECTING MEANS SHALL BE NEMA RATED AND SUITABLE FOR LOCKING IN THE OFF POSITION.
3. CONFIRM EQUIPMENT FINISH WITH THE ARCHITECT.
4. PROVIDE THE THERMOSTAT PREWIRED TO THE CONTROLLER INTEGRAL TO THE UNIT.

DIFFUSER, GRILLE & REGISTER SCHEDULE									
TAG	SELECTION RANGE (CFM)	NECK SIZE (IN.)	OVERALL SIZE (IN.)	SERVICE	MOUNTING	ACCESSORIES	MANUFACTURER AND MODEL NUMBER (AS STANDARD)	MAX NC	REMARKS
SB	105-210	80	24x24	SUPPLY	LAY-IN	-	TITUS OMNI	30	SEE NOTES
SC	215-350	100	24x24	SUPPLY	LAY-IN	-	TITUS OMNI	30	SEE NOTES
SD	0-210	80	48" x (1) 1" SLOT	SUPPLY	LAY-IN	INS. PLENUM	TITUS FL10-HT	30	SEE NOTES
SE	0-100	60	48" x (1) 1" SLOT	SUPPLY	BORDER 22	INS. PLENUM	TITUS FL10-HT	30	SEE NOTES
SF	105-210	80	48" x (1) 1" SLOT	SUPPLY	BORDER 22	INS. PLENUM	TITUS FL10-HT	30	SEE NOTES
SG	0-250	100	48" x (1) 1" SLOT	SUPPLY	BORDER 22	INS. PLENUM	TITUS FL10-HT	30	SEE NOTES
SH	105-210	80	48" x (1) 1" SLOT	SUPPLY	BORDER 22	INS. PLENUM	TITUS FL10-JT	30	SEE NOTES
SI	0-100	60	12x12	SUPPLY	SURFACE	-	TITUS OMNI	30	SEE NOTES
SJ	0-100	60	24" x (1) 1" SLOT	SUPPLY	LAY-IN	INS. PLENUM	TITUS FL10-HT	30	SEE NOTES
RA	0-500	150	24x24	RETURN	LAY-IN	-	TITUS OMNI	30	SEE NOTES
RB	0-250	-	48" x (1) 1" SLOT	RETURN	LAY-IN	-	TITUS-FL10-HT	30	SEE NOTES
RC	0-250	-	48" x (1) 1" SLOT	RETURN	BORDER 22	-	TITUS-FL10-HT	30	SEE NOTES
RD	0-250	120	48" x (1) 1" SLOT	RETURN	BORDER 22	INS. PLENUM	TITUS-FL10-HT	30	SEE NOTES
RE	0-95LF	-	(1) 2" SLOT	RETURN	BORDER 22	-	TITUS FL20-JT	30	SEE NOTES
EA	0-150	80	48" x (1) 1" SLOT	EXHAUST	BORDER 22	INS. PLENUM	TITUS FL10-HT	30	SEE NOTES
EB	0-50	6x6	8x8	EXHAUST	SIDE WALL	-	TITUS 350 RL	30	SEE NOTES
EC	0-700	12x12	14x14	EXHAUST	SIDE WALL	-	TITUS 350 RL	30	SEE NOTES
ED	0-100	60	12x12	EXHAUST	SURFACE	-	TITUS OMNI	30	SEE NOTES
TA	0-250	120	48" x (1) 1" SLOT	TRANSFER	BORDER 22	-	TITUS-FL10-HT	30	SEE NOTES
TB	0-700	20x20	22x22	TRANSFER	SIDE WALL	-	TITUS 350 RL	30	SEE NOTES

NOTES:
1. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
2. SEE PLANS FOR LOCATIONS AND QUANTITIES FOR EACH AIR DEVICE.
3. SEE PLANS FOR BLOW PATTERNS FOR EACH AIR DEVICE.
4. AIR DEVICE FINISHES SHALL