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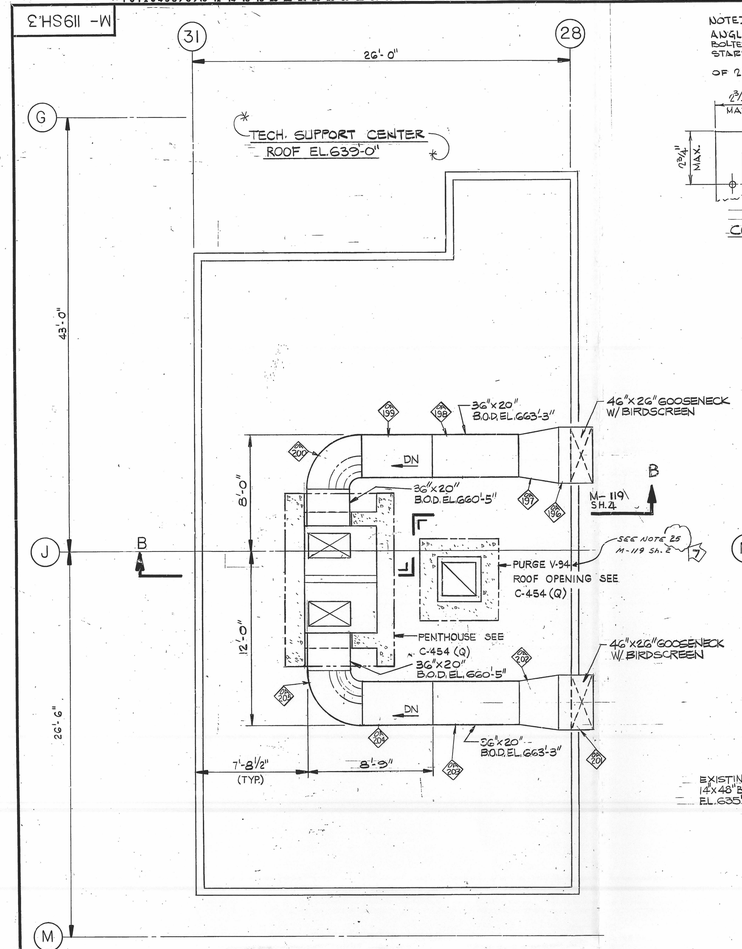
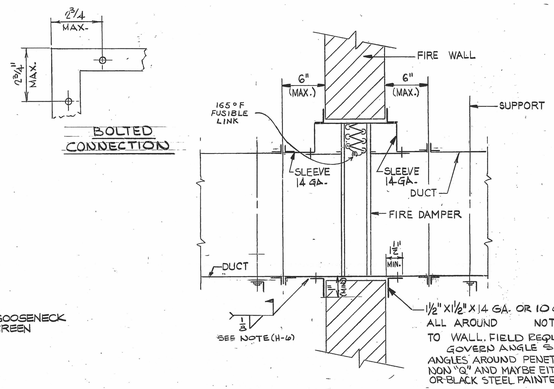
M-119SH.3

NOTE:
ANGLES BOLTED OR WELDED TO DUCTWORK.
BOLTED CONNECTIONS 1/4" NUTS & BOLTS, MAX. 7" O.C. STARTING A MAX. OF 2 3/4" FROM AN EDGE. WELDED CONNECTIONS 1/8" FILLET, MAX. 7" O.C., 1 1/2" LONG; STARTING A MAX. OF 2 3/4" FROM AN EDGE.

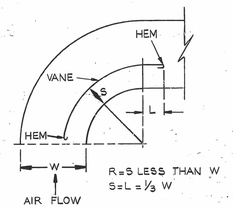


PARTIAL ROOF PLAN
EL.659'-2"
SCALE: 1/4" = 1'-0"



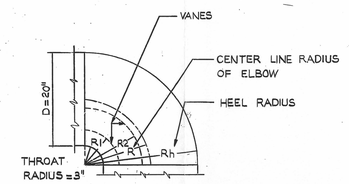
BOLTED CONNECTION

SECTION VIEW FOR FIRE DAMPER
SCALE: NONE



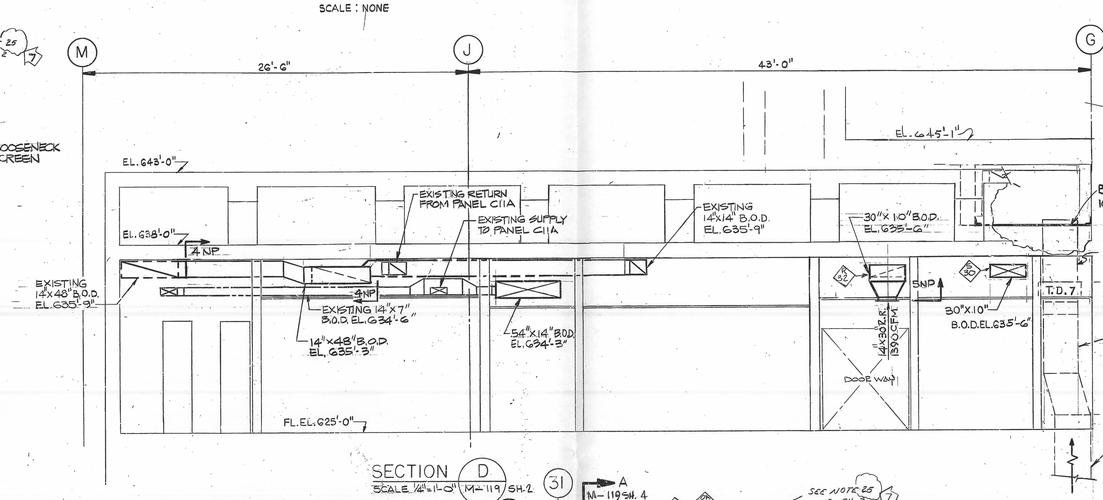
90° SHORT RADIUS ELBOW
(SINGLE VANE)

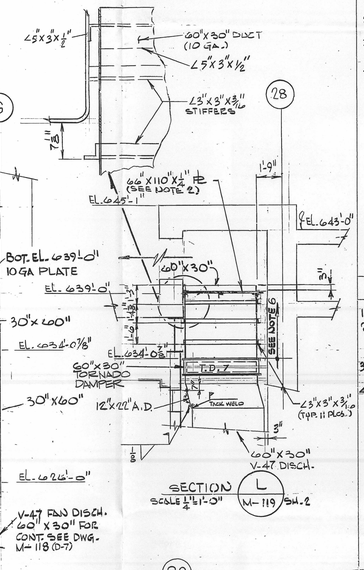
FOR LOCATION OF VANES IN SHORT RADIUS ELBOWS IN NEW DUCT SEE PEABODY & WIND DUCTWORK CONSTRUCTION MANUAL M-181(Q)-7.



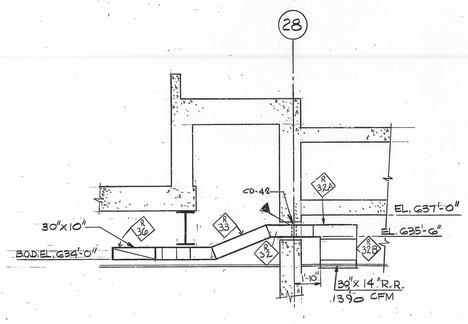
90° RECTANGULAR ELBOW VANE LOCATION
(MULTIPLE VANE)

3" THROAT RADIUS MINIMUM DIMENSION TO A MAXIMUM OF 10" FOR A 20" EXAMPLE. 1/2 D IS RECOMMENDED, THEN WILL REQUIRE ONLY ONE VANE. REFER TO PEABODY AND WIND DUCKWORK CONSTRUCTION MANUAL.

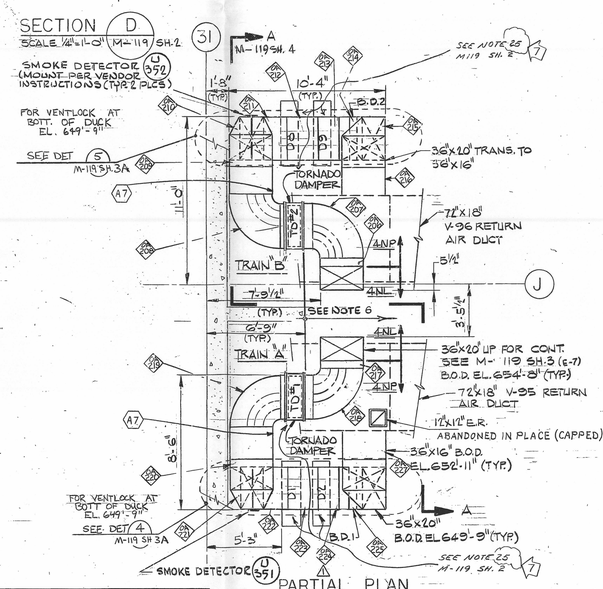




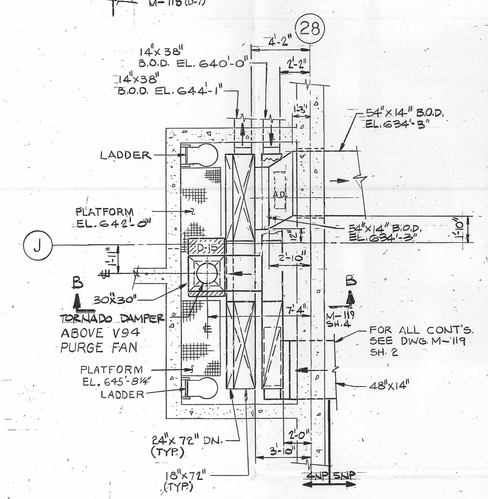
SECTION L
SCALE 1/4" = 1'-0" M-119 SH.2



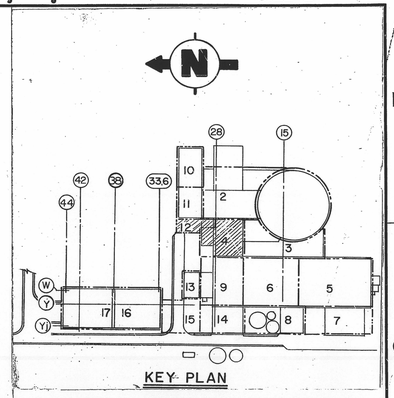
SECTION H
SCALE: 1/4" = 1'-0" M-119 SH.2



PARTIAL PLAN
EL.654'-8"
SCALE 1/4" = 1'-0"



PARTIAL PLAN
EL.643'-9"
SCALE 1/4" = 1'-0"



KEY PLAN

NOTES

1. FOR GENERAL NOTES SEE M-119 SH. 2 (Q).
2. FOR DETAILS OF STIFFNESS AND WELDING REQUIREMENT SEE DRAWING 12.4.47-C-930 (Q)
3. INSTALLATION OF HVAC DUCTWORK ON THE MECHANICAL EQUIPMENT ROOM ROOF IS NON-"Q".
4. DELETED
5. DELETED
6. ALL DUCTWORK IN DIRECTION INDICATED IS OF 10 GAGE MATERIAL.

REFERENCE DRAWINGS

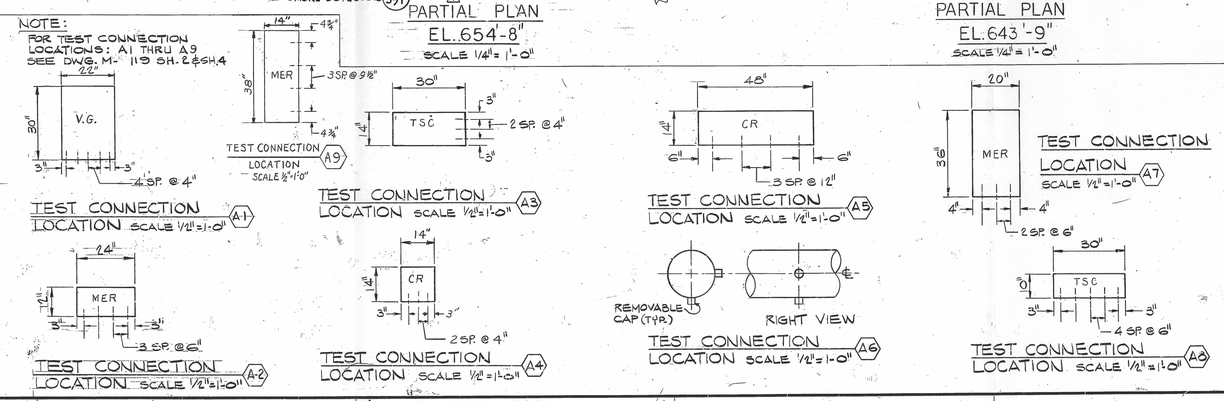
1. M-218 SH.6 (Q), 6A	PIPE & INSTRUMENT DIAGRAM
2. M-119 SH. 2 (Q)	HEATING & VENTILATION CONTROL ROOM & MECH. ROOM PLAN EL. 625'-0" & 629'-2".
3. C-454 (Q)	CONCRETE ROOF PLAN EL. 659'-2" & DETAILS.
4. A-244	ARCH. FLOOR & ROOF PLANS.

LEGEND

S.R.	SUPPLY REGISTER
E.R.	EXHAUST OR RETURN REGISTER
T.A.	TRANSFER AIR (NON DUCTED)
B.O.G.	BOTTOM OF GRILLE ELEVATION
B.O.D	BOTTOM OF DUCT ELEVATION
EL.	ELEVATION
DIA.	DIAMETER
CFM.	CUBIC FEET PER MINUTE
DN.	DOWN
TRANS.	TRANSITION
S.D.	SPLITTER DAMPER
B.D.	BALANCING DAMPER
C.D.	CEILING DIFFUSER
O.A.	OUTDOOR AIR
GR.	GRILLE
A.D.	ACCESS DOOR
S.S.	STAINLESS STEEL
M.D.	MOTORIZED DAMPER
N.D.	NECK DIAMETER
T.D.	TORNADO DAMPER

FIRE DAMPER - VERTICAL INSTALLATION.
FIRE DAMPER HORIZONTAL INSTALLATION.
OPPOSED BLADE VOLUME DAMPER LOCKING QUADRANT (B.D.)
FLEXIBLE CONNECTION
SUPPLY DUCT
EXHAUST DUCT
PROPORTIONAL BRANCH TAKE-OFF WHEN (BRANCH CFM IS GREATER THAN 25% OF MAIN DUCT. CFM SUPPLY SYSTEM ONLY)
BRANCH TAKE-OFF (WHEN CFM IS LESS THAN 25% OF MAIN SUPPLY AND EXHAUST SYSTEM) NO S.D. ON RETURN OR EXHAUST DUCT
OPPOSED BLADE DAMPER SECTION VIEW
OPPOSED BLADE DAMPER PLAN VIEW

NOTE:
FOR TEST CONNECTION LOCATIONS: A1 THRU A9 SEE DWG. M-119 SH. 2 & SH. 4



TEST CONNECTION LOCATION SCALE 1/2" = 1'-0" A1
TEST CONNECTION LOCATION SCALE 1/2" = 1'-0" A2
TEST CONNECTION LOCATION SCALE 1/2" = 1'-0" A3
TEST CONNECTION LOCATION SCALE 1/2" = 1'-0" A4
TEST CONNECTION LOCATION SCALE 1/2" = 1'-0" A5
TEST CONNECTION LOCATION SCALE 1/2" = 1'-0" A6
TEST CONNECTION LOCATION SCALE 1/2" = 1'-0" A7
TEST CONNECTION LOCATION SCALE 1/2" = 1'-0" A8
TEST CONNECTION LOCATION SCALE 1/2" = 1'-0" A9

No.	DATE	REVISIONS	BY	CHK	GRO SUPV.	ENG.	PROJ. ENGR	MICROFILM DATE
7	4-24-96	CHANGED NOTE 13 (REF) TO 25 PER DCR 96-170						
6	4-19-95	ADDED DETAIL 4 & 5 TO VENTLOCK AT BOTT OF DUCT SC-93-0342 & DCR 95-156						
5	8-4-86	ADDED 84" TO NOTE 18-TO V-95 DR. 5" TO 12" ADDED SEC. SC-86-0205	WPD					FC-571
4	10/26/84	CORRECTED HEATING & VENTILATING EQUIPMENT PER GWO 8721						
3	9/11/84	REVISE 1390 CFM WAS 1900 CFM (E-4 & E-7) ISSUED FOR RECORD						
2	9/7/84	REVISE NOTE 4 (F-3) ADDED NOTE 5 (B-2) ADD PROPOSED BOP PACKAGE						
1	8/17/84	REVISED PER A-130-A1 DELETED W/13 ADD TO A-130-A1 DELETED W/13 ADD TO A-130-A2 DELETED W/13 ADD TO A-130-B2 DELETED W/13						
0	7/16/84	ISSUED FOR RECORD	BL					

SCALE AS NOTED DESIGNED M. UNAL DRAWN M. UNAL

BECHTEL
ANN ARBOR, MICHIGAN

PALISADES PLANT
CONSUMERS POWER COMPANY
GWO 8721

HEATING AND VENTILATING
MECHANICAL ROOM ROOF PLAN
SECTIONS AND DETAILS

JOB No.	DRAWING No.	REV.
12447-054	M-119 SH.3	7

34 X 44

D-16