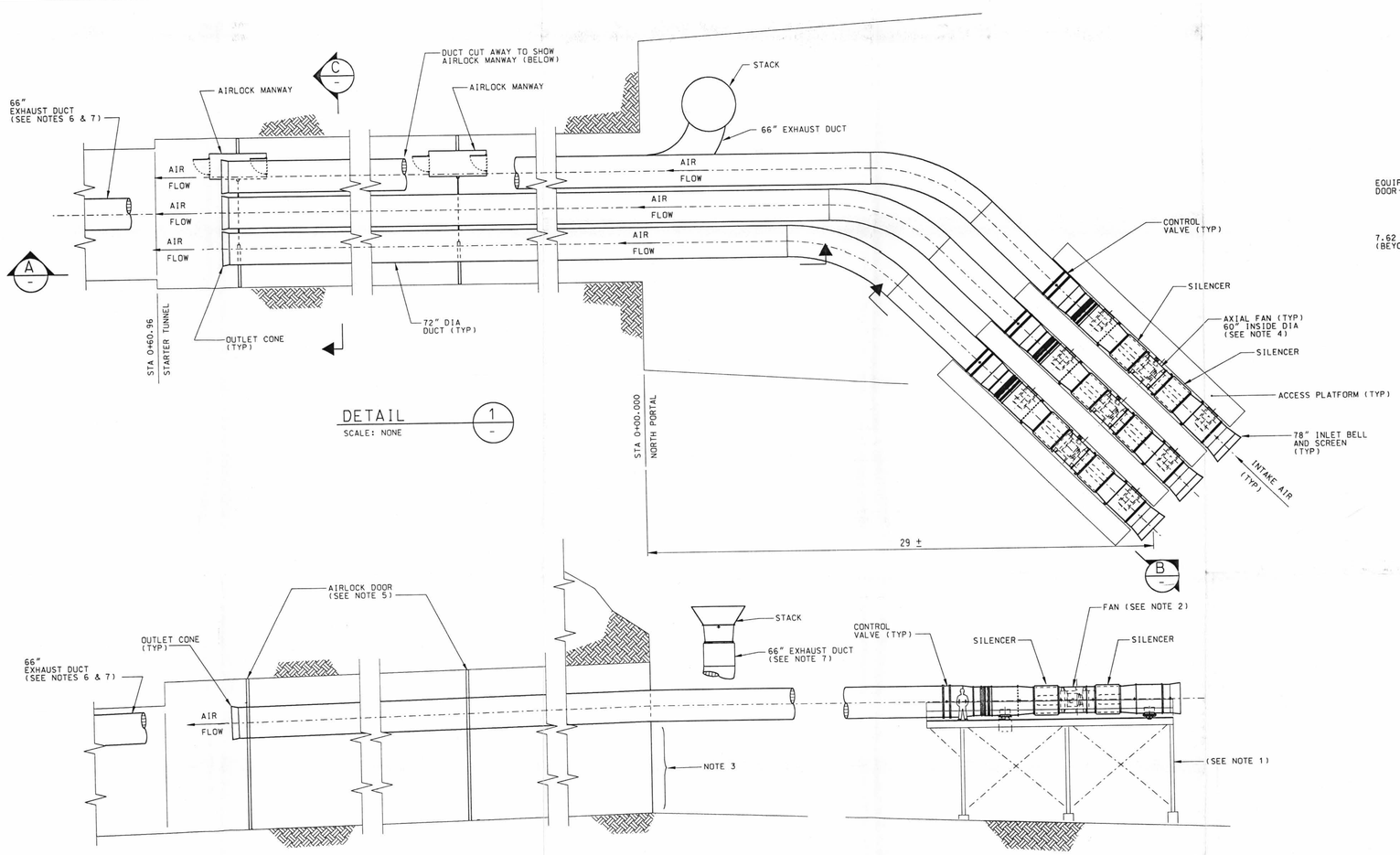
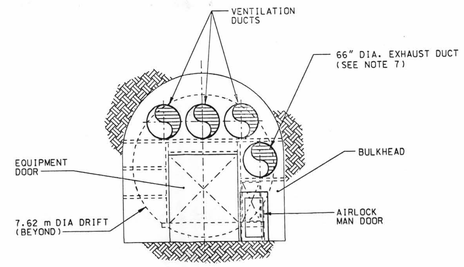


DETAIL 1
SCALE: NONE



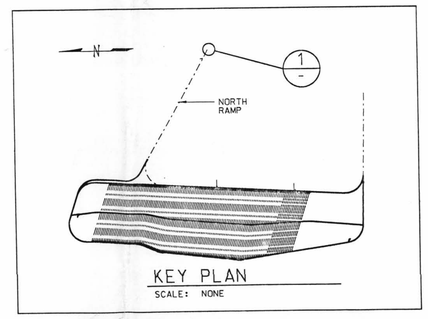
SECTION C
SCALE: NONE

NOTES:

1. CONCEPTUAL STRUCTURAL SUPPORTS ONLY SHOWN FOR FANS. STRUCTURAL SUPPORTS FOR DUCTS NOT SHOWN FOR CLARITY.
2. CURRENTLY USED ESF AXIAL FANS MODEL 60-30-1180/250 HP. DESIGN PERFORMANCE OF EACH FAN: 66.1 m^3/s (140,000 cfm) AT 1.7 KPa (6.8 IN WG). NOMINAL PERFORMANCE: 188.8 m^3/S (400,000 cfm) TOTAL INTAKE AIR QUANTITY WHEN OPERATING THREE FANS SIMULTANEOUSLY.
3. PROVIDED WITH ENOUGH SPACE AND HEIGHT FOR EQUIPMENT AND PERSONNEL PASSAGE.
4. ALL FANS, DUCTS, AND ACCESSORIES SHOWN IN THIS DRAWING ARE TEMPORARY AND WILL BE REMOVED AFTER THE SHAFTS ARE COMMISSIONED FOR VENTILATION.
5. LOCATION OF AIRLOCK DOORS AND BULKHEADS ARE TBD.
6. EXHAUST DUCT EXTENSION TO NORTH PORTAL IS NOT SHOWN FOR CLARITY. THE EXISTING 66" EXHAUST DUCT AND THE FAN SYSTEM OF THE ESF MAY BE USED AND MODIFIED FOR THIS APPLICATION.
7. THIS DESIGN WAS ORIGINALLY PRESENTED USING A FLOW-THROUGH VENTILATION SYSTEM: SEE BCAJ00000-01717-2700-86001 REV. 00. THE DETAILS DEPICTING THE USE OF AN EXHAUSTING DUCT VENTILATION SYSTEM ARE EXPLAINED IN THE DESIGN ANALYSIS "VENTILATION NEEDS DURING CONSTRUCTION - BCAJ00000-01717-0200-00001 REV. 00". REFER TO DRAWING ND. 86030.

VIEW A
SCALE: NONE

VIEW B
SCALE: NONE



KEY PLAN
SCALE: NONE

9812040057

THIS DRAWING IS PRELIMINARY AND NOT INTENDED FOR CONSTRUCTION, PROCUREMENT OR FABRICATION.

DESIGN INPUTS
SEE DRAWING INPUTS LIST

APPROVALS	INITIAL/DATE
DRAWN: J OLSEN	7/29/98
ORIGINATOR: R JURANI	RSJ 7/29/98
CHECKED: J BEESLEY	JB 7-29-98
VERIFICATION: N/A	
LEAD DESIGN ENGINEER: R SAUNDERS	RSS 7/29/98
QUALITY ASSURANCE: N/A	
DEPARTMENT MANAGER: K BHATTACHARYYA	7/29/98

REV	DESCRIPTION	DATE	DRN	ORG	CHK	VER	L.O.E.	Q.A.	D.M.
00	INITIAL ISSUE	7/29/98	JO	RSJ	JB	N/A	RSS	N/A	

U.S. DEPARTMENT OF ENERGY
Yucca Mountain Site Characterization Project
M&O Civilian Radioactive Waste Management System MANAGEMENT & OPERATING CONTRACTOR

REPOSITORY DESIGN
SUBSURFACE VENTILATION
NORTH PORTAL
DUCTED EXHAUST ARRANGEMENT

SIZE D | DOCUMENT IDENTIFIER: BCAJ00000-01717-2700-86026- | REV 00
SCALE: NONE | QA CLASSIFICATION: N/A | W.B.S.: 1.2.4 | CAD FILE: R1HVACSS:86026
CAGE CODE:

RECORD DESIGNATOR QA:N/A

sld /rep1/repss/hvac/dgn/86026.dgn

29-JUL-1998 12:42

9812040057