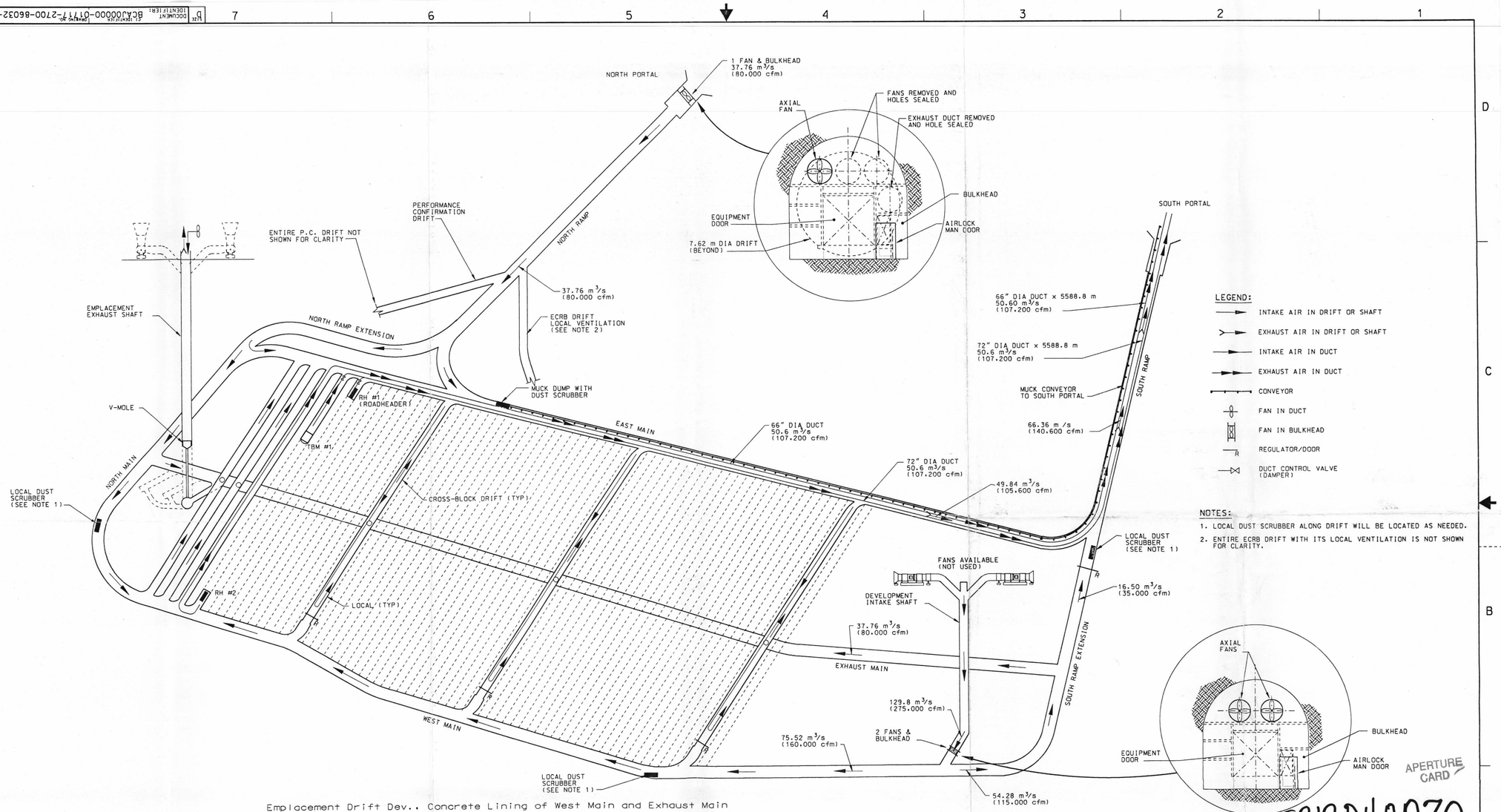

LEGEND:

- INTAKE AIR IN DRIFT OR SHAFT
- EXHAUST AIR IN DRIFT OR SHAFT
- INTAKE AIR IN DUCT
- EXHAUST AIR IN DUCT
- CONVEYOR
- FAN IN DUCT
- FAN IN BULKHEAD
- REGULATOR/DOOR
- DUCT CONTROL VALVE (DAMPER)

NOTES:

1. LOCAL DUST SCRUBBER ALONG DRIFT WILL BE LOCATED AS NEEDED.
2. ENTIRE ECRB DRIFT WITH ITS LOCAL VENTILATION IS NOT SHOWN FOR CLARITY.

APERTURE CARD

9812D40070

Emplacement Drift Dev.. Concrete Lining of West Main and Exhaust Main

Intake	Air Qty ft³/min q	Air Qty m³/sec	Airway Dia.inches d	Length L(m)	Length L (ft)	Total BHP @ 70% Eff	Fan Unit cfm@ Fan Press. in-wg/ Motor BHP	No of Fan Unit in Line	Space bet. Fans m
NORTH RAMP	80.000	37.76	300	5.100.4	16.734	2	80.000@7"/250	1	Main Fan Load
DEV SHAFT/EXHAUST MAIN	80.000	37.76	300	4.909.6	16.108	2			Main Fan Load
DEV SHAFT/SOUTH RAMP EXTENSION	35.000	16.52	300	883.9	2.900	0			Main Fan Load
DEV SHAFT/WEST MAIN	160.000	75.52	300	4.424.9	14.517	12	137.500@7"/250	2	Main Fan Load
TOTAL	355.000	167.56				15		3	

Exhaust									
SOUTH RAMP. 66". DUCT 1	107.200	50.60	66	5.588.8	18.336	2.520	107.200@11"/300	9	621
SOUTH RAMP. 72". DUCT 2	107.200	50.60	72	5.588.8	18.336	1.631	107.200@11"/300	6	931
SOUTH RAMP	140.600	66.36	300	2.335.7	7.663	4			Main Fan Load
TOTAL	355.000	167.56				4.156		15	

Total BHP 4.171 Total Fan Units 18 (with 3 Main Fan loads)

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

DESIGN INPUTS
SEE DRAWING INPUTS LIST

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

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

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

REPOSITORY DESIGN
SUBSURFACE VENTILATION
DUCTED EXHAUST ARRANGEMENT
CONSTRUCTION CONDITION 3

SIZE D | DOCUMENT IDENTIFIER: BCAJ00000-01717-2700-86032 | REV 00
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RECORD DESIGNATOR QA:N/A

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