



ROADHEADER FACE VENTILATION
SCALE: NONE

ROADHEADER INITIAL CUTTING AND DUST CONTROL BYPASS - ALONG MAINS (TYP)
SCALE: NONE
SEE NOTE 7

TYPICAL RELATIONSHIP OF AIRFLOW AND ROADHEADER ADVANCE-PLAN
SCALE: NONE

- NOTES:
1. SLIDING TROMBONE EXTENDS AS CLOSE AS FEASIBLE TO THE FACE. DUST BACKFLOW FROM ROADHEADER CUTTING HEAD WILL EXHAUST INTO DUCT AND INTO DUST SCRUBBER WITHOUT PASSING THROUGH PERSONNEL BREATHING AREA NEAR FACE.
 2. MOBILE AIR CURTAIN MOUNTED ON FLAT CAR TO MOVE IN POSITION NOT TO DISTURB ROADHEADER ACTIVITY.
 3. RIGID CURTAIN WALL WITH EXTENSIBLE HEIGHT AND LENGTH TO FIT NEEDS OF BLOCKING HIGH VELOCITY AIR INTO ROADHEADER ACTIVITY. CURTAIN HAS GRIPPERS TO STABILIZE POSITION.
 4. LOCAL DUST SCRUBBER INSTALLED ALONG DRIFT AS NEEDED.
 5. ROADHEADER CUTTING WITH WATER SPRAY ARRANGEMENT WILL BE INCLUDED IN ROADHEADER SPECIFICATION.
 6. AIR QUANTITY DELIVERY INSIDE DUCT IS DESIGNED TO PRODUCE NOMINAL 0.6 m/s (118 fpm) OF AIR VELOCITY ALONG DRIFT.
 7. ROTATE IMAGE AS NEEDED FOR SPECIFIC ROADHEADER FACE VENTILATION ARRANGEMENT.
 8. THIS DESIGN WAS ORIGINALLY PRESENTED USING A FLOW-THROUGH VENTILATION SYSTEM. SEE BCAJ00000-01717-2700-86003 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."
 9. A FACE HOOD WILL BE DESIGNED TO CAPTURE MOST DUST INTO THE FIRST DUST SCRUBBER.

APERTURE CARD
9812040064

REV	DESCRIPTION	DATE	BY	CHK	APP	VER	DATE	BY	CHK	APP
00	INITIAL ISSUE	7/24/98	RST	JB	N/A	RSS	N/A			

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

DESIGN INPUTS SEE DRAWING INPUTS LIST
U.S. DEPARTMENT OF ENERGY Yucca Mountain Site Characterization Project Civilian Radioactive Waste Management System MANAGEMENT & OPERATING CONTRACTOR REPOSITORY DESIGN SUBSURFACE VENTILATION ROADHEADER DUCTED EXHAUST ARRANGEMENT
DRAWN: D. TRUJILLO DATE: 7/29/98 CHECKED: R. JURANI DATE: 8/12/98 ENGINEER: J. BEESLEY DATE: 7-29-98 VERIFICATION: N/A LEAD DESIGN ENGINEER: R. SAUNDERS DATE: 7-29-98 QUALITY ASSURANCE: N/A DEPARTMENT MANAGER: K. BHATTACHARYYA DATE: 7/14/98
SIZE: DOCUMENT IDENTIFIER: BCAJ00000-01717-2700-86028-00 SCALE: NONE OR CLASSIFICATION: N/A OR FILE: 1.2.4 CASE CODE: R1HVACSS86028