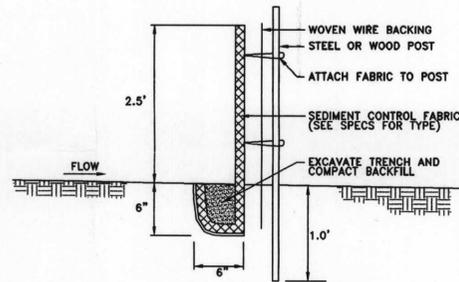
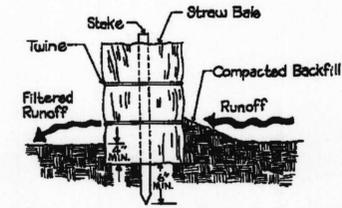
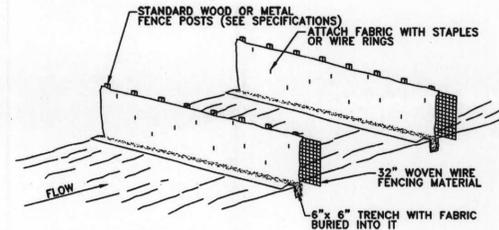


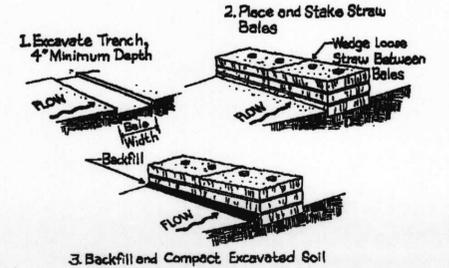
TYPICAL BERM CROSS SECTION
NOT TO SCALE



SEDIMENT CONTROL FENCE DETAIL
NOT TO SCALE



CROSS-SECTION VIEW



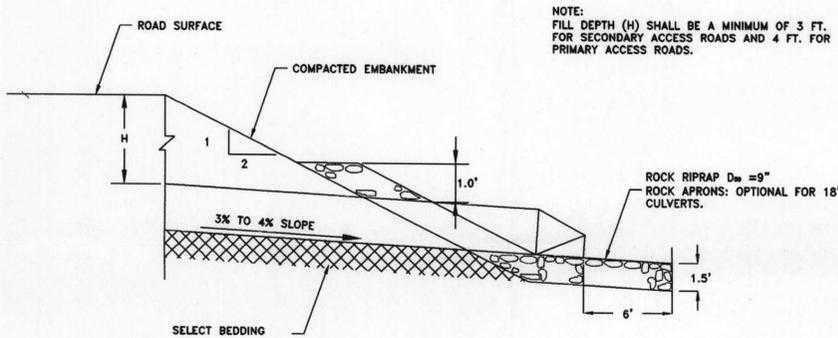
General Notes:
1. When used as a continuous perimeter filter barrier the maximum tributary area is limited to 0.25 acres per 100 feet of barrier.
2. Inspect, repair, and replace (if necessary) the filters after each storm event.

TYPICAL STRAW BALE DIKE
NOT TO SCALE

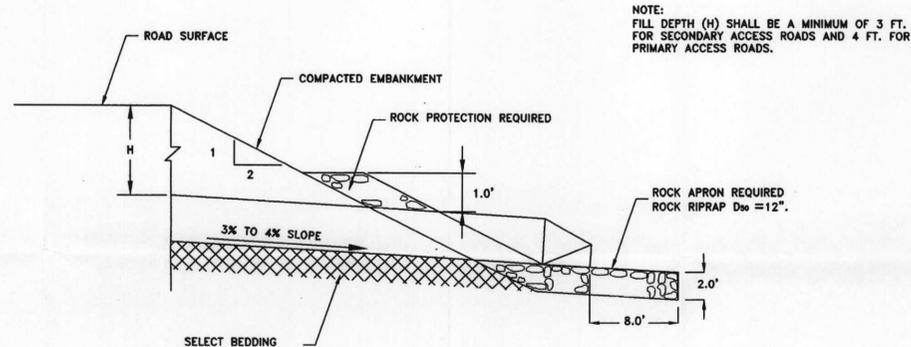
18" TO 30" DIA. CULVERT DETAILS

36" TO 48" DIA. CULVERT DETAILS

NOTES



CULVERT OUTLET PROFILE DETAIL
NOT TO SCALE



CULVERT OUTLET PROFILE DETAIL
NOT TO SCALE

- GENERAL CONSTRUCTION REQUIREMENTS:
- ALL EXCAVATION CUT SURFACES, EMBANKMENTS, AND TRENCH BACKFILL MATERIALS SHALL BE COMPACTED TO 90% STANDARD PROCTOR DENSITY.
 - SELECT BEDDING MATERIAL SHALL BE COMPACTED TO 90% OF STANDARD PROCTOR DENSITY.
 - SELECT BEDDING MATERIAL SHALL CONSIST OF SELECTIVELY HANDLED SANDS AND GRAVELS OR AN EQUIVALENT SOIL MATERIAL WITH NO PARTICLES GREATER THAN 1-INCH, AT OPTIMUM MOISTURE CONTENT FOR COMPACTION.
 - WHERE WET AND UNSTABLE SOIL INCAPABLE OF SUPPORTING THE CULVERT IS ENCOUNTERED, SUCH MATERIAL SHALL BE REMOVED, AND REPLACED WITH SELECT BEDDING MATERIAL.
 - TRENCH BACKFILL SHALL CONSIST OF SELECTED EXCAVATION OR BORROW MATERIALS WITH NO LARGE ROCKS, AND AT OPTIMUM MOISTURE CONTENT FOR COMPACTION.
 - TRENCH BACKFILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 6" IN COMPACTED DEPTH, AND BROUGHT UP EVENLY ON BOTH SIDES OF THE CULVERT FOR ITS FULL LENGTH.
 - ROCK PROTECTION AND ROCK APRONS SHALL CONSIST OF WELL-GRADED DURABLE MATERIALS WITH A D₆₀ DIAMETER OF 9" OR 12" AS SHOWN ON THE PLANS.
 - METAL OR PLASTIC CULVERT END SECTIONS, CONSISTING OF THE SAME MATERIAL TYPE AS THE ATTACHED CULVERT, WILL BE INSTALLED ON THE CULVERT INLETS AND OUTLETS.

CORRUGATED STEEL PIPE AND END SECTIONS SHALL MEET THE FOLLOWING SPECIFICATIONS:

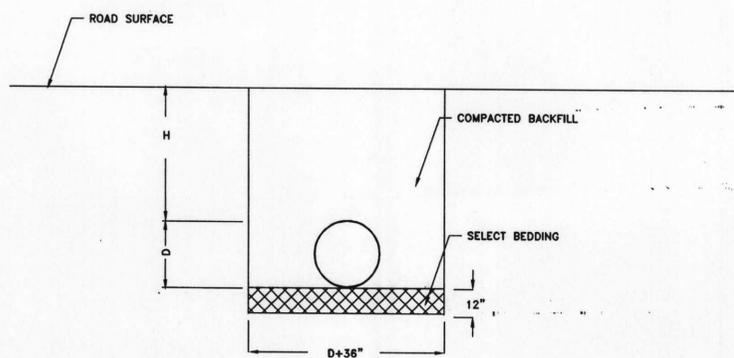
- CONFORM TO THE APPLICABLE SECTIONS OF AASHTO M 36 AND EITHER AASHTO M 218 OR AASHTO M 274 FOR THE SPECIFIED SECTIONAL DIMENSIONS AND THICKNESS.
- THE SHEET THICKNESS OF THE STEEL PIPE SHALL BE A MINIMUM OF 14 GAGE.
- CORRUGATED STEEL PIPE MAY BE USED FOR ALL SIZES OF CULVERTS.

CORRUGATED POLYETHYLENE PIPE AND END SECTIONS SHALL MEET THE FOLLOWING SPECIFICATIONS:

- CONFORM TO THE APPLICABLE SECTIONS OF AASHTO M 294-92 FOR THE SPECIFIED SECTIONAL DIMENSIONS AND THICKNESS.
- CORRUGATED POLYETHYLENE PIPE MAY BE USED FOR CULVERT SIZES 18", 24", AND 36" ONLY. FOR CULVERTS GREATER THAN 36", STEEL SHALL BE USED.

CULVERT SIZING TABLE

CULVERT DIAMETER (IN.)	MINIMUM FILL (FT.)	CULVERT CAPACITY (IN.)
PRIMARY ACCESS ROADS		
18	4	18
24	4	35
30	4	60
36	4	92
42	4	130
48	4	176
SECONDARY ACCESS ROADS		
18	3	16
24	3	32
30	3	55
36	3	82



CULVERT TYPICAL CROSS SECTION
NOT TO SCALE

APERTURE
CARD

D-04

NO.	REVISION	DATE BY	ISSUED FOR	DATE BY
POWER RESOURCES, INC.				
SCALE: NOT TO SCALE	DATE	DWG. NO.	REV.	
DRAWN BY: PAB	03/27/1997	PLATE 3-4		
CHECKED:				
APPROVED:				
GAS HILLS PROJECT TYPICAL CULVERT INSTALLATION FREMONT AND NATRONA COUNTIES, WY				
REVISION DATE: 3/98 LAST PLOT DATE: NONE CAD FILENAME: NRCPL3-4				