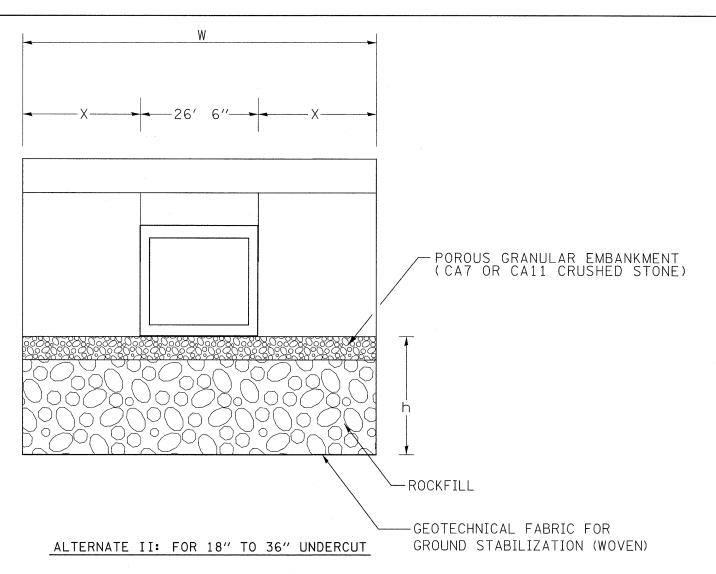


ALTERNATE I: FOR 12" TO 18" UNDERCUT

	UNDERCUT							
CULVERT LOCATION	DEPTH	WIDTH						
	h	×	OD	W				
STA. 9+39	*							

* TO BE DETERMINED DURING CONSTRUCTION. SEE NOTE 1.



GENERAL NOTES:

- 1. Undercut any soil encountered below the box culvert to bedrock. At the Engineer's discression, fill the undercut area(s) with:
 - a) Concrete per Article 502.05 of the Standard Specifications
 - b) Porous Granular Embankment and Rockfill as shown in Alternates I and II.
- 2. DEFINITIONS:

OD = Outside Diameter or outside width of box culvert

h = Depth of undercut (for precast box culverts, the upper 6" is included in the cost of culvert).

x = h or min. width specified in Sec. 542.04, which ever is greater for pipe culverts.

x = h or minimum 2 feet, which ever is greater for box culverts. W = Width of undercut = 2x + 0D

3. For undercuts greater than 36", use Alternate II with undercut

treatments as directed by the District Geotechnical Engineer.

All dimensions are in inches (millimeters) unless otherwise noted.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -		DETAIL:			F.A.P.	SECTION	COUNTY	TOTAL SHEET		
\$FIL5L\$		DRAWN -	REVISED -	STATE OF ILLINOIS	UNSUITABLE EXCAVATION TREATMENT					522	(6G-WPSO)BR	HANCOCK	41 33
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	FOR CULVERTS			322	100 111 30/011		T NO. 68214		
	PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE: N/A	SHEET NO. OF	SHEETS	STA. N/A	TO STA. N/A	FED. ROAD	DIST. NO. ILLINOIS FED. /		1 1101 00214