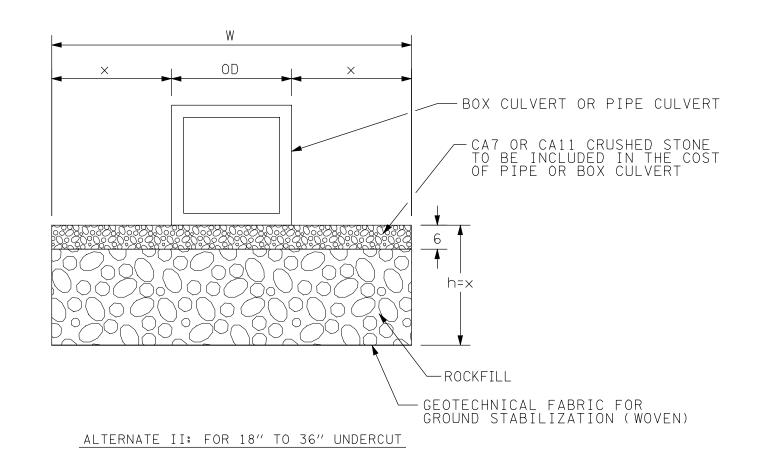
SECTIONS. CROSS NO AND CHECK WITH THE DISTRICT GEOTECHNICAL ENGINEER OR SHOWN IN PROJECT SOILS REPORT.
ASSURE TREATMENT AREAS ARE SHOWN IN PLANS AN INCLUDE SOIL BORINGS FOR TREATED AREAS. 1. 3.5.

OD -BOX CULVERT OR PIPE CULVERT -CA7 OR CA11 CRUSHED STONE TO BE INCLUDED IN THE COST OF PIPE OR BOX CULVERT 6

ALTERNATE I: FOR 12" TO 18" UNDERCUT

	_						
	UNDERCUT						
CULVERT LOCATION	DEPTH	WIDTH					
	h	×	OD	W			
FAP 407 (IL 336)							
608+00	2'	2′	6′	10′			
659+10	4′	4′	11'	18'-6''			
665+90	5′	3′	6′	12′			
679+00	8′	7′-11′′	9'-2''	25′			
827+60	3′	3′	9′	15′			
CH 14 (1350N)							
2019+75	8′	1'-111/2''	6′-7′′	10'-6''			



GENERAL NOTES:

- 1. Undercut if the Dynamic Cone Penetrometer tests indicate soil strength is less than 1 ton/sq ft.
- 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.

				(millimeters)
unless	otherw	ise no	ted.	

FILE NAME =	USER NAME = Jdeen	DESIGNED - JRB	REVISED -		FAP 407 (IL RTE 336)	F.A.P. SECTION	COUNTY TOTAL SHEET NO.
V:\Transportation\2891\Grading Plans	\2891d001.dgn	DRAWN - JMO	REVISED -	STATE OF ILLINOIS	UNSUITABLE EXCAVATION TREATMENT FOR CULVERTS	407 (55-3)A	McDONOUGH 671 304
	PLOT SCALE = 100.0000 '/ IN.	CHECKED - AWM	REVISED -	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 68A42
	PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -		SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. TO STA.	ILLI	NOIS FED. AID PROJECT