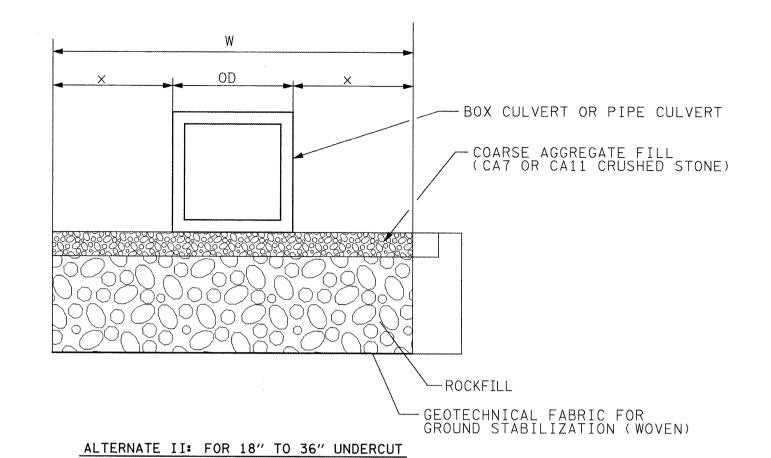


ALTERNATE I: FOR 12" TO 18" UNDERCUT

| | UNDERCUT | | | | | | | | |
|--------------------|----------|------|------|-------|--|--|--|--|--|
| CULVERT LOCATION | DEPTH | | | | | | | | |
| | h | × | OD | W | | | | | |
| LT. STA. 418+16.23 | 2.5′ | 2.5′ | 7.0′ | 12.0′ | | | | | |
| LT. STA. 534+26.26 | 1.5′ | 2.0′ | 6.0′ | 10.0′ | | | | | |
| | | | | | | | | | |



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.

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

| FILE NAME = | USER NAME = mendezpj | DESIGNED - | REVISED - | | | | | | | | F.A.P | SECTION | COUNTY | TOTAL S | SHEET |
|-----------------|------------------------------|------------|-----------|------------------------------|--------|--|-----|-------|---------|---------------------------------|-------|-------------|----------------|--------------|-------|
| sht-landscp.dgn | | DRAWN - | REVISED - | STATE OF ILLINOIS | | UNSUITABLE EXCAVATION TREATMENT FOR CULVERTS | | | | | | 02011011 | 000111 | SHEETS | NO. |
| İ | PLOT SCALE ≈ 100.0000 '/ IN. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | 685 | ** | CONTRA | - 329 169 CONTRACT NO. 68599 | | | | | |
| | PLOT DATE = 3/25/2011 | DATE - | REVISED - | | SCALE: | SHEET NO. | 0F | SHEET | TS STA. | TO STA. | | ILL INDIS F | D. AID PROJECT | C1 NO* 00233 | |