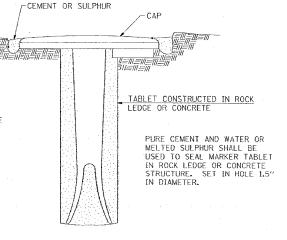


NOTES

- 1. ACTUAL LOCATIONS TO BE DETERMINED BY THE ENGINEER AND A REPRESENTATIVE FROM THE BUREAU OF DESIGN AFTER GRADING IS COMPLETE AND SIGHT DISTANCE FROM THE BUREAU OF DESIGN AFTER GRADING IS COMPLETE AND SIGHT DISTANCE CAN BE DETERMINED BETWEEN SURVEY MARKER LOCATIONS.
- 2. THE MARKERS SHALL BE PRECAST AND SHALL BE INSTALLED IN A WORKMANLIKE MANNER IN ORDER THAT THERE BE NO FUTURE SETTLEMENT OR HORIZONTAL SHIFTING. THE MONUMENT SHALL BE PLACED IN A WAY THAT THE SURVEY POINT WILL FALL WITHIN THE PORTION OF THE PLAQUE PROVIDED FOR THAT PURPOSE. A REPRESENTATIVE FROM THE BUREAU OF PROGRAM DEVELOPMENT WILL LOCATE AND ETCH THE SURVEY
- 3. THE CONTRACT UNIT PRICE FOR PERMANENT SURVEY MARKERS WILL BE PAYMENT IN FULL FOR FURNISHING AND INSTALLING THE MARKER.

TOTAL QUANTITY FOR PERMANENT SURVEY MARKERS=

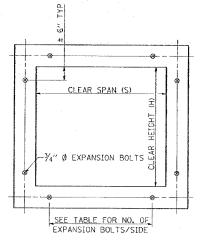
DESIGN NOTE: 2000' SPACING DESIRABLE FOR RURAL 1000' SPACING DESIRABLE FOR URBAN



EXPANSION BOLTS REQUIRED FOR CULVERT **EXTENSIONS**

CONTRACT NO. 98950 SECTION COUNTY TOTAL SHEET NO. WILLIAMSON 917 827 TO STA. FED. ROAD DIST. NO. JULINOIS FED. AID PROJECT

* I-57, & OLD IL 13 (FAU 9629) * (X1-6-2)VB-2,(X1-6)HBK-2



EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" Ø HOOKED BOLTS, HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE.

MINIMUM CERTIFIED PROOF LOAD=7500 LBS.

BOLTS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR EXPANSION BOLTS, ¾ INCH.

	NO. E	XPANSION E	OLTS	REQ'D/SIDI
H OR S	EXTENSION≤15'		EXTENSION >15'	
H UK 3	NO.	SPACING	NO.	SPACING
2.0	*	*	*	*
2.5	2	18"	2	18′′
3.0	2	24"	2	24"
4.0	3	18′′	3	18"
5.0	4	16"	3	24''
6.0	5	15"	4	20"
7.0	5	18"	4	24''
8.0	6	17''	5	21"
9.0	6	19"	5	24"
10.0	7	18"	6	21"
11.0	8	17''	6	24"
12.0	8	19"	7	22"
W NOTE, USE MINIMUM OF 1 EVENISTON				

BOLT AT EACH CORNER.

EXAMPLE:

6' X 4' BOX CULVERT TO BE EXTENDED 18' AT ONE END ONLY.

FROM TABLE FIND:

6' SIDE REQUIRES (4)-¾" ∅ EXPANSION BOLTS AT 20" CENTERS

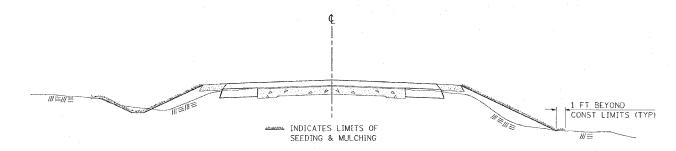
4' SIDE REQUIRES (3)-3/4" ∅ EXPANSION BOLTS AT 18" CENTERS

TOTAL NO. REQUIRED $(4+3)2 = (14) - \frac{3}{4}$ " Ø EXPAN. BOLTS

CROSS SECTION THRU BARREL

FOR ANCHOR BOLT REQUIREMENTS. SEE ARTICLE 1006.09 OF THE STANDARD SPECIFICATIONS.

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIME-STONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

· r-	REVISIONS				
	NAME NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION DETAILS:		
			PERMANENT SURVEY MA BOLTS REQUIRED FOR C SEEDING AND MULCHING	ULVERT EXTENSIONS;	
			SCALE: VERT. NO SCALE	DRAWN BY	

CHECKED BY