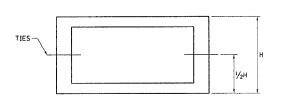
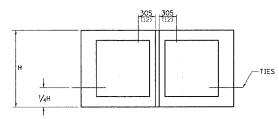
SECTION COUNTY TOTAL SHEETS NO. _573 ___116R-4__ __DEKALB__ _416 267A

CONTRACT NO. 64517

THE CULVERT TIES SHALL BE INCLUDED IN THE COST OF THE CONCRETE PIPE CULVERTS OR THE PRECAST CONCRETE BOX CULVERT. THE MECHANICAL TIES SHALL BE ON THE OUTSIDE OF THE CULVERT. THE NUTS AND WASHERS SHALL BE PLACED ON THE INSIDE OF OF THE CULVERT AND COVERED WITH MASTIC JOINT SEALER CONFORMING TO ARTICLES 1055 OR 1056 IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

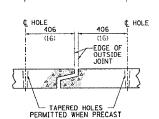




WELD COUPLER TO BOLT --





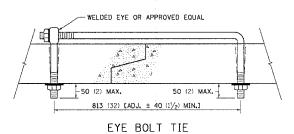


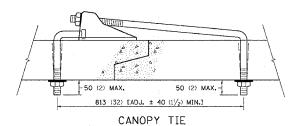
/					
		i (7
	₩_	-50 (2) MAX.	50 (2) MAX.		
		813 (32) [ADJ. ±	40 (1/ ₂) MIN.3		

ADJUSTABLE TIE

TOP VIEW

PLACEMENT OF HOLES						
BOX CULVERT METERS (FEET)	PIPE SIZE THREAD MILLIMETERS DIAMETER					
	300 (12) 380 (15) 450 (18) 530 (21) 600 (24) 680 (27) 16 (5%) ROLLED THREADS (SEE NOTE 4)					
0.9x0.6 (3x2) 0.9x0.9 (3x3) 1.2x0.6 (4x2) 1.2x0.9 (4x3) 1.2x1.2 (4x4) 1.5x0.9 (5x3) 1.5x1.2 (5x4)	760 (30) 830 (33) 910 (36) 1060 (42) 1210 (48) 1370 (54) 1520 (60) 1670 (66)					
1.5x1.5 (5x5) 1.8x • (6x •) 2.1x • (7x •) 2.4x • (6x •) 2.7x • (9x •) 3.0x • (10x •)	1820 (72) 1980 (78) 2130 (84) 2280 (90) 2430 (96) CUT 0R 2590 (102) 2740 (108) 3040 (120) 8041 (120)					
3.4X • (11X *) AND GREATER	3500 (138) 35 (11/4) AND GREATER					







- 1. HOLES SHALL BE CAST-IN OR DRILLED 400 (16) FROM OUTSIDE EDGE OF JOINT.
- 2. NUTS AND WASHERS ARE NOT REQUIRED ON INSIDE OF 675 (27) DIAM. PIPE OR LESS.
- 3. TIES ARE NOT REQUIRED FOR BELL PIPE 600 (24) AND SMALLER. ON OTHER SIZES TIE MAY BE INSERTED FROM INSIDE.
- 4. CUT THREADS MAY BE USED IF WASHER AND NUT
- 5. PIPE SIZE LISTED IS INSIDE DIAM. OF ROUND PIPE OR EQUIVALENT DIAM. OF PIPE ARCH OR ELLIPTICAL.
- 6. GALVANIZING OF TIES IS REQUIRED.
- 7. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

