

PLAN

SECTION LENGTH

LOCATION OF LIFTING HOLES MAY BE VARIED AS NEEDED TO CLEAR REINFORCEMENT.

WHEN EXTENDING AN

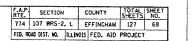
THIS END AGAINST THE EXISTING HEADWALL.

EXISTING BOX, PLACE

ELEVATION

DETAIL OF PRECAST CONCRETE BOX CULVERT M273

(WITH LESS THAN 2 FEET OF COVER) AASHO DESIGNATION M273 (ASTM DESIGNATION C-850) DESIGN LOADING = HS20-44



CONTRACT NO. 74130

CULVERT SIZE (FEET)	DIMENSIONS (INCHES)		
SPAN x RISE (FOOT)	Т,	τ _θ	<i>T</i> ₅
3x2 3x3	7	6 6	4
4x2 4x3 4x4	7 1/2 7 1/2 7 1/2	6 6 6	5 5 5
5x3 5x4 5x5	8 8 8	7 7 7	6 6
6x3 6x4 6x5 6x6	8 8 8 8	7 7 7 7	7 7 7 7
7x4 7x5 7x6 7x7	8 8 8	8 8 8	8 8 8
8×4 8×5 8×6 8×7 8×8	8 8 8 8 8	8 8 8 8 8	8 8 8 8
9x5 9x6 9x7 9x8 9x9	9 9 9 9	9 9 9 9	9 9 9
10x5 10x6 10x7 10x8 10x9 10x10	10 10 10 10 10	10 10 10 10 10	10 10 10 10 10
11x4 11x6 11x8 11x10 11x11	11 11 11 11	11 11 11 11	11 11 11 11
12x4 12x6 12x8 12x10 12x12	12 12 12 12 12	12 12 12 12 12	12 12 12 12 12

├-- 1 1/2" MIN. - CLASS SI CONCRETE MULTIPLE UNIT PLACEMENT

CROSS SECTION * THE HAUNCH DIMENSION, H. IS EQUAL TO THE WALL THICKNESS. Ts.

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04(a) OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED IN ACCORDANCE WITH ARTICLE 542,04(d) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE TERMS A_{Sh} A_{Sh} ETC. DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN ASSHTO M273.

REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO ASSHTO M55. LONGITUDINAL DISTRIBUTION REINFORCEMENT MAY CONSIST OF WELDED WIRE FABRIC OR DEFORMED BARS CONFORMING TO ASSHTO M31, M42, OR M53, GRADE 60.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE BOX SECTIONS ARE IN PLACE.

DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.12 OF THE STANDARD SPECIFICATIONS, LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.

THE P.C.C. PAVEMENT PATCH REINFORCED WITH PAVEMENT FABRIC (STANDARD 42070) WILL BE CONSTRUCTED OVER THE CULVERT. THE PATCH SHALL BE FULL PAVEMENT WIDTH, AND THE LEWGTH SHALL EXTEND 24" BEYOND EACH SIDE OF THE CULVERT.

REVISIO		ILLINOIS DEPARTMENT OF TRANSPORTATION		
NAME	DATE	TEETHOIS DEFARTMENT OF	TRANSPORTATION	
		PRECAST CONCRETE BOX CULVERT DETAILS SHEET 1 OF 3		
			DRAWN BY DIST. 7	
		DATE REVISED: 05/28/99	CHECKED BY BWC	

EFFINGHAM COUNTY

BLANK, WESSELINK, COOK & ASSOCIATES

ENGINEERS - CONSULTANTS DECATUR. ILLINOIS