

1 2 3 4 5 6 7 8 9 \$\$\$DATE\$\$\$
 10 11 12 13 14 15 16 17 18 *DGN-SPEC*
 19 20 21 22 23 24 25 26 27 *DGN-SPEC*
 28 29 30 31 32 33 34 35 36 MMO REV: MMO
 37 38 39 40 41 42 43 44 45
 46 47 48 49 50 51 52 53 54
 55 56 57 58 59 60 61 62 63

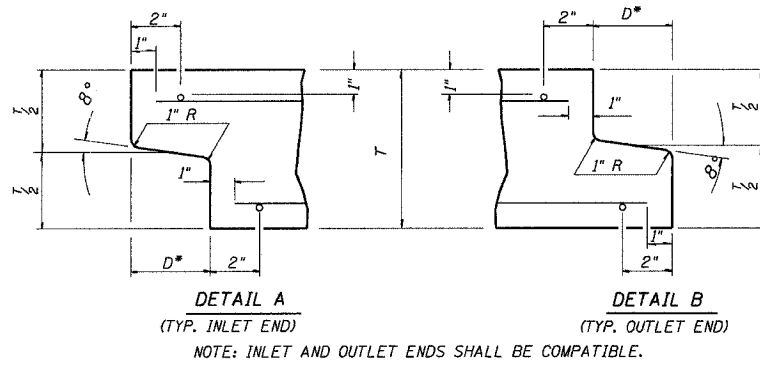
EC789

DETAIL OF PRECAST CONCRETE BOX CULVERT M259

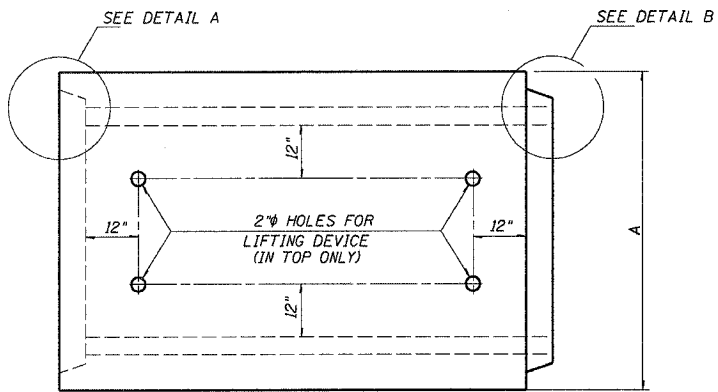
(WITH EQUAL TO OR GREATER
 THAN 2 FEET OF COVER)

AASHTO DESIGNATION M259
 (ASTM DESIGNATION C-789)
 DESIGN LOADING = HS20-44

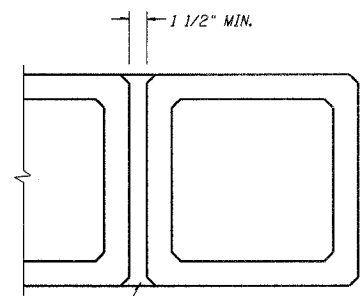
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
774		EFFINGHAM	344	137
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* 107WRS-1, 107BY, 107BY-1 & 107B-2				
CONTRACT NO. 94827				



* THE D DIMENSION SHALL CONFORM TO THE
 MANUFACTURER'S STANDARDS.



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



CLASS S1 CONCRETE
 MULTIPLE UNIT PLACEMENT

GENERAL NOTES

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

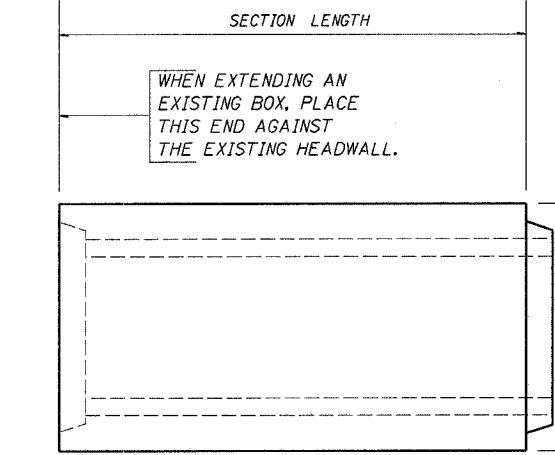
MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

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.

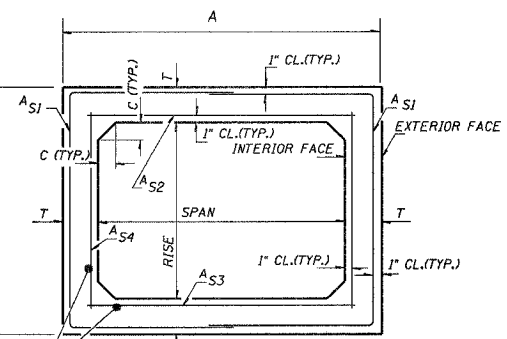
THE TERMS A_{S1} , A_{S2} , AND A_{S4} DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN ASSHTO M259. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO ASSHTO M55.

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.



WHEN EXTENDING AN EXISTING BOX, PLACE THIS END AGAINST THE EXISTING HEADWALL.



LONGITUDINAL REINFORCEMENT
 CROSS SECTION

CULVERT SIZE	DIMENSIONS			
	T (INCHES)	A FT-IN	B FT-IN	C (INCHES)
SPANxRISE (FOOT)				
2x2	4	2-8	2-8	4
3x2	4	3-8	2-8	4
3x3	4	3-8	3-8	4
4x2	5	4-10	2-10	5
4x3	5	4-10	3-10	5
4x4	5	4-10	4-10	5
5x2	6	6-0	3-0	6
5x3	6	6-0	4-0	6
5x4	6	6-0	5-0	6
5x5	6	6-0	6-0	6
6x2	7	7-2	3-2	7
6x3	7	7-2	4-2	7
6x4	7	7-2	5-2	7
6x5	7	7-2	6-2	7
6x6	7	7-2	7-2	7
7x4	8	8-4	5-4	8
7x5	8	8-4	6-4	8
7x6	8	8-4	7-4	8
7x7	8	8-4	8-4	8
8x4	8	9-4	5-4	8
8x5	8	9-4	6-4	8
8x6	8	9-4	7-4	8
8x7	8	9-4	8-4	8
8x8	8	9-4	9-4	8
9x5	9	10-6	6-6	9
9x6	9	10-6	7-6	9
9x7	9	10-6	8-6	9
9x8	9	10-6	9-6	9
9x9	9	10-6	10-6	9
10x5	10	11-8	6-8	10
10x6	10	11-8	7-8	10
10x7	10	11-8	8-8	10
10x8	10	11-8	9-8	10
10x9	10	11-8	10-8	10
10x10	10	11-8	11-8	10
11x4	11	12-10	5-10	11
11x6	11	12-10	7-10	11
11x8	11	12-10	9-10	11
11x10	11	12-10	11-10	11
11x11	11	12-10	12-10	11
12x4	12	14-0	6-0	12
12x6	12	14-0	8-0	12
12x8	12	14-0	10-0	12
12x10	12	14-0	12-0	12
12x12	12	14-0	14-0	12

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PRECAST CONCRETE
 BOX CULVERT DETAILS
 SHEET 2 OF 3
 DATE REVISED: 05/28/99
 DRAWN BY DIST. 7
 CHECKED BY BWC