

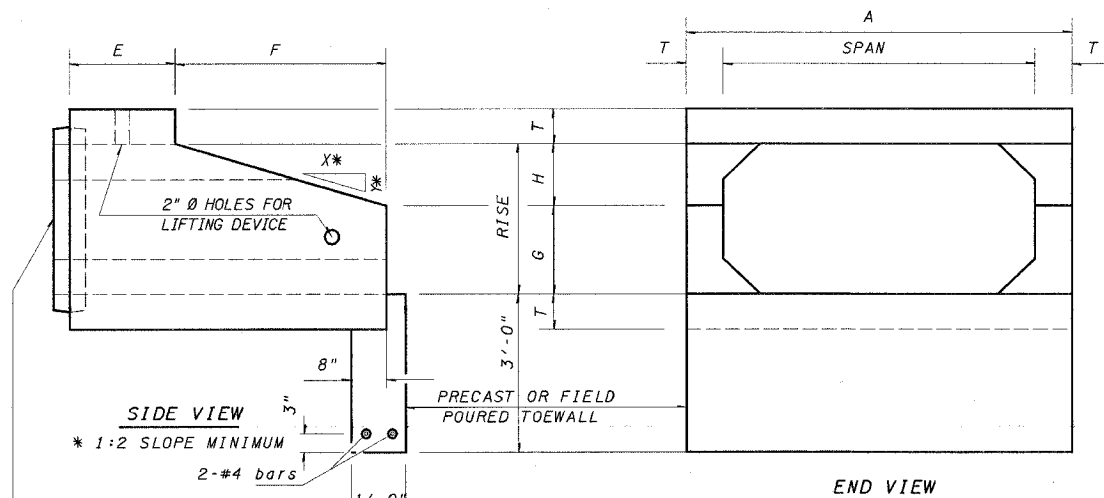
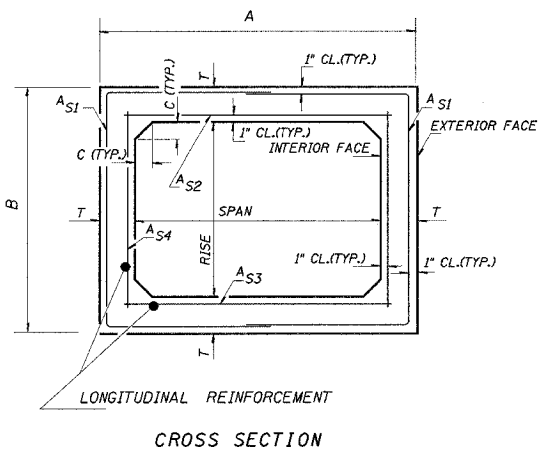
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END

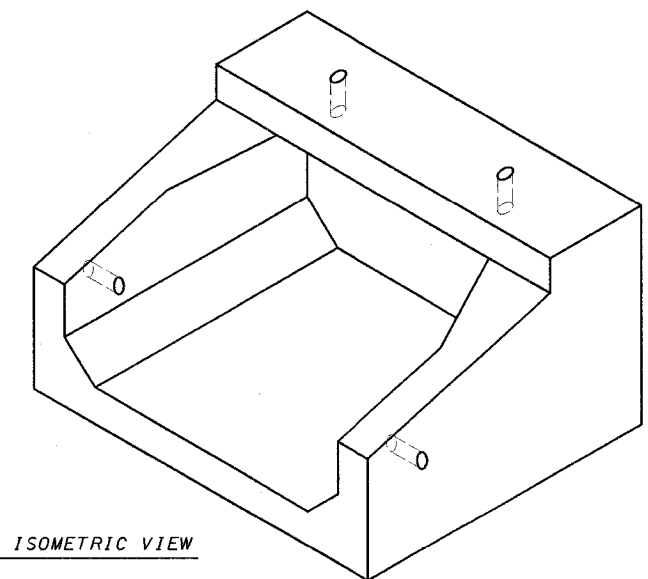
# DETAIL OF PRECAST CONCRETE BOX CULVERT END SECTION

AASHTO DESIGNATION M259M  
 (ASTM DESIGNATION C-789M)  
 DESIGN LOADING = MS18

NOTE: THE DIMENSIONS INDICATED ARE FOR END SECTIONS THAT ARE TO BE USED WITH PRECAST BOX CULVERT SECTIONS DESIGNED FOR 2" OR MORE OF FILL. THE DIMENSIONS MUST BE MODIFIED FOR THE END SECTION TO BE COMPATIBLE WITH PRECAST CULVERT SECTIONS DESIGNED FOR LESS THAN 2" OF FILL.



END CONNECTION TO FIT PRECAST BOX CULVERT (BELL OR SPIGOT MAY BE OMITTED WHEN COLLARING TO AN EXISTING BOX OR HEADWALL).



CULVERT SIZE	DIMENSIONS **									
	SPANxRISE (FOOT)	T	A	B	C	E	F	G	H	SLOPE
		INCH	FT-IN	FT-IN	INCH	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN
2x2	4	2-8	2-8	4	3-0	3-0	1-0	1-0	1-3	
3x2	4	3-8	2-8	4	3-0	3-0	1-0	1-0	1-3	
3x3	4	3-8	3-8	4	2-0	4-0	1-8	1-4	1-3	
4x2	5	4-10	2-10	5	3-0	3-0	1-0	1-0	1-3	
4x3	5	4-10	3-10	5	2-0	4-0	1-8	1-4	1-3	
4x4	5	4-10	4-10	5	2-0	4-0	2-0	2-0	1-2	
4x6	7	5-2	7-2	7	2-0	6-0	3-0	3-0	1-2	
5x2	5	5-10	2-10	6	3-0	3-0	1-0	1-0	1-3	
5x3	6	6-0	4-0	6	2-0	4-0	1-8	1-4	1-3	
5x4	6	6-0	5-0	6	2-0	4-0	2-0	2-0	1-2	
5x5	6	6-0	6-0	6	2-0	4-0	3-0	2-0	1-2	
6x2	7	7-2	3-2	7	3-0	3-0	1-0	1-0	1-3	
6x3	7	7-2	4-2	7	2-0	4-0	1-8	1-4	1-3	
6x4	7	7-2	5-2	7	2-0	4-0	2-0	2-0	1-2	
6x5	7	7-2	6-2	7						
6x6	7	7-2	7-2	7	2-0	6-0	3-0	3-0	1-2	
7x4	8	8-4	5-4	8	2-0	4-0	2-0	2-0	1-2	
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	2-0	4-0	2-0	2-0	1-2	
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						

CULVERTS WITH RISE > 6' REQUIRE CAST-IN-PLACE END SECTIONS

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 WITH ACCORDANCE WITH ARTICLE 542.04(d) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE TERMS AS1, AS2, AS3, AND AS4 DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M259M. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO SPECIFICATIONS M55M.

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

REVISIONS	
NAME	DATE
JEH	06/01
rgw	09/01

FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
750	(114) Y. WRS	FAYETTE	29	74
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT NO.	

CONTRACT NO. 94962

ILLINOIS DEPARTMENT OF TRANSPORTATION

## DETAIL OF PRECAST CONCRETE BOX CULVERT END SECTION

SCALE: VERT. \_\_\_\_\_ HORIZ. \_\_\_\_\_ DATE \_\_\_\_\_ REVISED: 05/28-99 DRAWN BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_

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 teasleyck "r" \_DATE\_