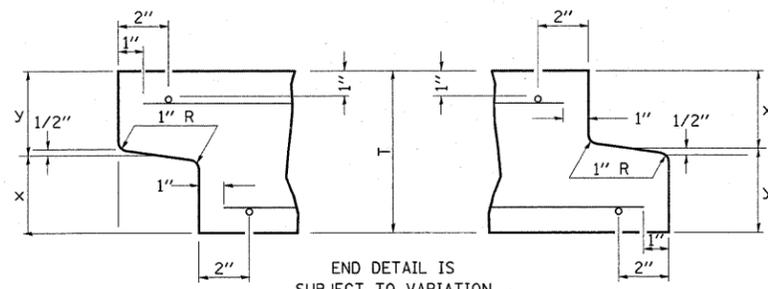


DETAIL OF PRECAST CONCRETE BOX CULVERT M259



END DETAIL IS SUBJECT TO VARIATION BY FABRICATOR
DETAIL A (TYP. INLET END)
DETAIL B (TYP. OUTLET END)
 NOTE: INLET AND OUTLET ENDS SHALL BE COMPATIBLE.

AASHTO DESIGNATION M259 (WITH 2' OR MORE COVER)

DESIGN LOADING:
 TABLE 1 = HS20
 TABLE 2 = INTERSTATE LOADING

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

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 540.06 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 540.06 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE TERMS A_{S1} , A_{S2} , A_{S3} , AND A_{S4} DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M259. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO SPECIFICATIONS M55 OR M221.

LIFTING HOLES SHALL BE FILLED IN ACCORDANCE WITH 540.06 OR PROJECT SPECIAL PROVISIONS.

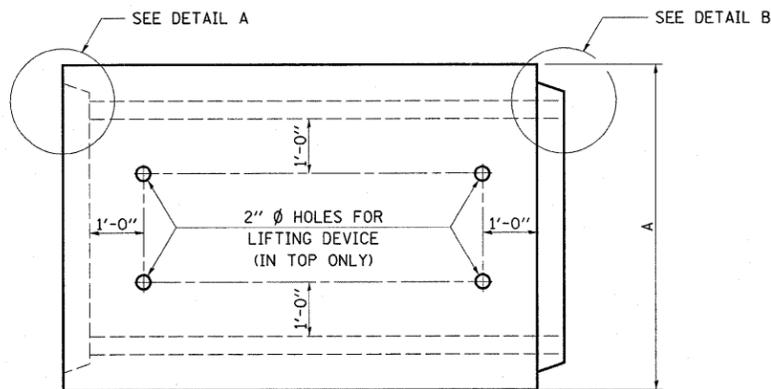
DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS. LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.

DESIGN FILL HEIGHT (F):

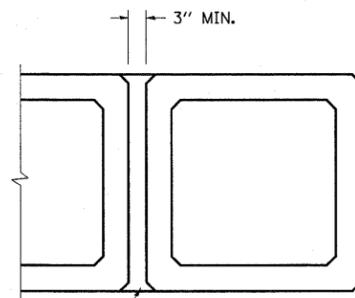
MAXIMUM FILL HEIGHT (f_{max}) AND MINIMUM FILL HEIGHT (f_{min}) ARE MEASURED BETWEEN THE EXTREME EDGES OF SHOULDER.

f_{max}/f_{min} (FT)	F (FT)	AASHTO
$f_{min} < 2'$	$< 2'$	M273
$2' \leq f_{min} < 3'$	2'	M259
$3' \leq f_{min} < 4'$	3'	M259
$f_{min} \geq 4'$	f_{max}	M259

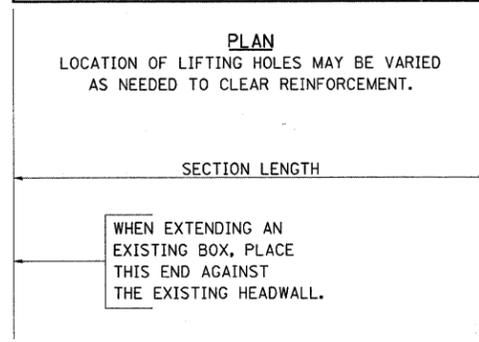
DESIGN FILL HEIGHTS APPLY TO ENTIRE CULVERT, INCLUDING EXTENSIONS AND END SECTIONS.



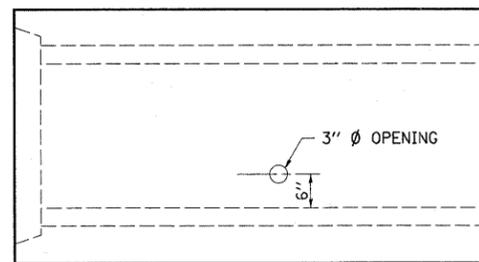
PLAN
 LOCATION OF LIFTING HOLES MAY BE VARIED AS NEEDED TO CLEAR REINFORCEMENT.



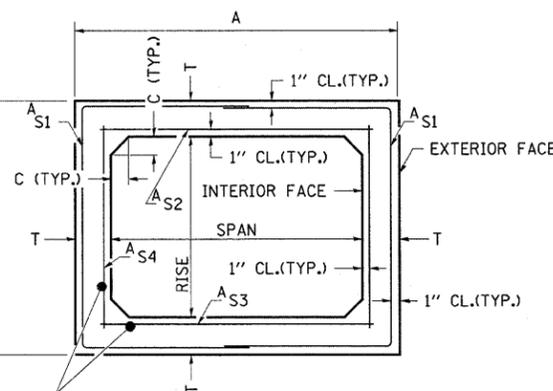
CLASS SI CONCRETE
MULTIPLE UNIT PLACEMENT



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



ELEVATION



CROSS SECTION