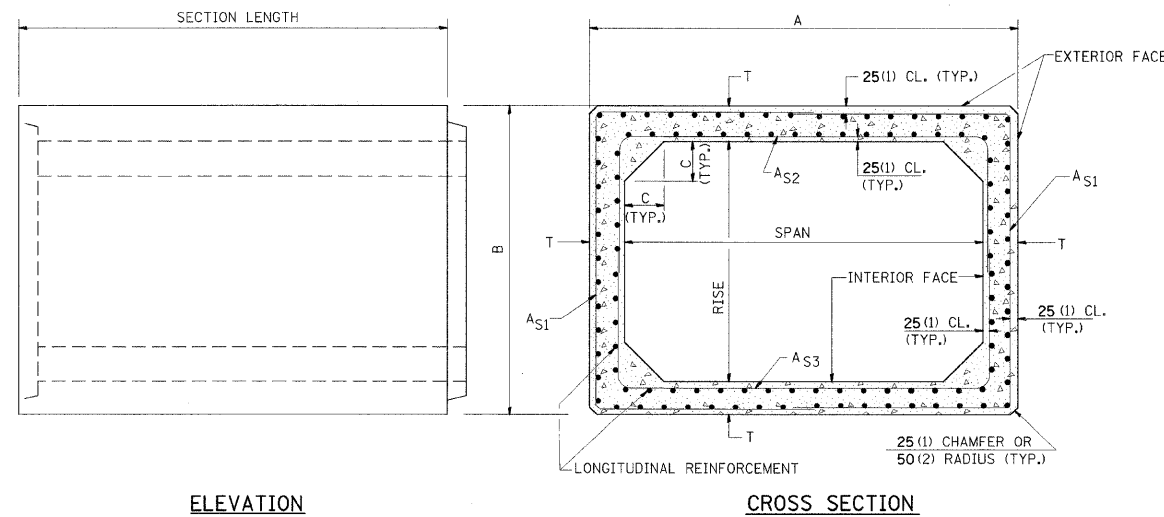
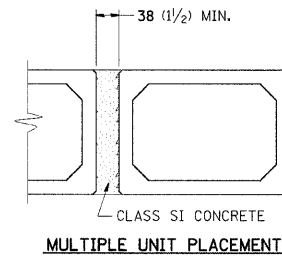
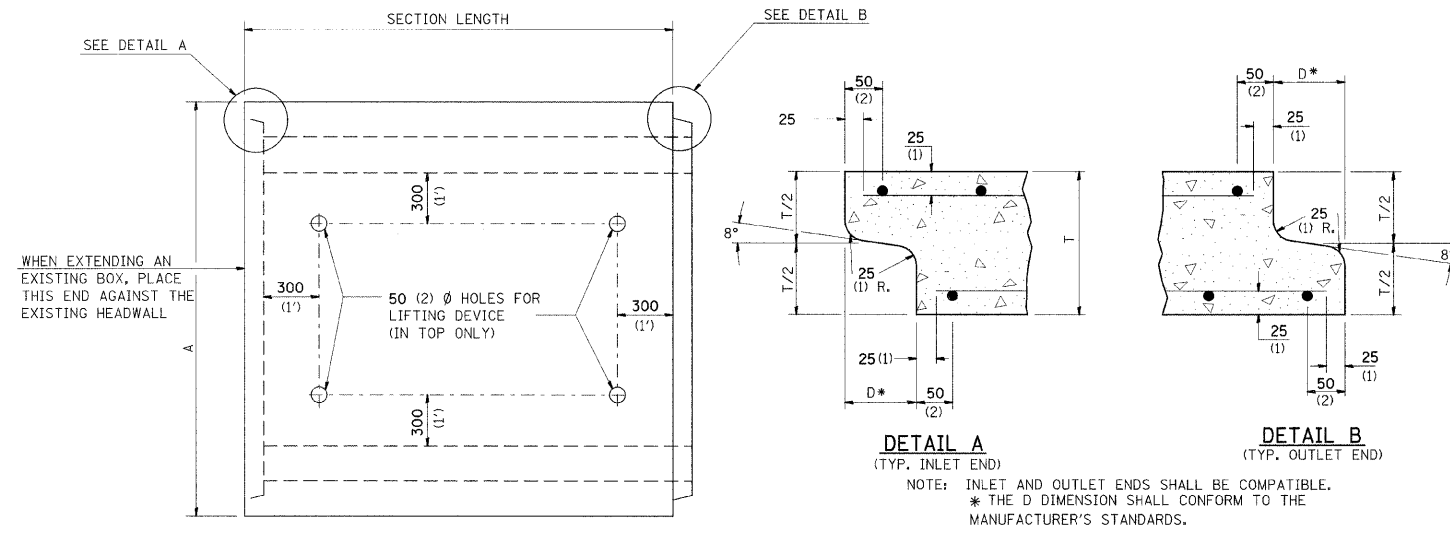


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	78
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

DETAIL OF PRECAST CONCRETE BOX CULVERT SECTION

(WITH COVER 600 (2 FEET) OR GREATER -
AASHTO DESIGNATION M259)
DESIGN LOADING: HS-20-44



GENERAL NOTES

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

MINIMUM CONCRETE STRENGTH SHALL BE 34,500 kPa (5000 PSI) AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 1055.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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

THE TERMS AS1, AS2, & AS3 DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M259. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO M55-81.

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.

DIMENSIONS

SPAN X RISE	T (IN.)	A (FT.-IN.)	B (FT.-IN.)	C (IN.)	SPAN X RISE	T (IN.)	A (FT.-IN.)	B (FT.-IN.)	C (IN.)
600 x 600 (2' X 2')	100 (4)	800 (2-8)	800 (2-8)	100 (4)	2.7 m x 1.5 m (9' X 5')	225 (9)	3.15 m (10-6)	1.95 m (6-6)	225 (9)
900 x 600 (3' X 2')	100 (4)	1.1 m (3-8)	800 (2-8)	100 (4)	2.7 m x 1.8 m (9' X 6')	225 (9)	3.15 m (10-6)	2.25 m (7-6)	225 (9)
900 x 900 (3' X 3')	100 (4)	1.1 m (3-8)	1.1 m (3-8)	100 (4)	2.7 m x 2.1 m (9' X 7')	225 (9)	3.15 m (10-6)	2.55 m (8-6)	225 (9)
1.2 m x 600 (4' X 2')	125 (5)	1.45 m (4-10)	850 (2-10)	125 (5)	2.7 m x 2.4 m (9' X 8')	225 (9)	3.15 m (10-6)	2.85 m (9-6)	225 (9)
1.2 m x 900 (4' X 3')	125 (5)	1.45 m (4-10)	1.15 m (3-10)	125 (5)	2.7 m x 2.7 m (9' X 9')	225 (9)	3.15 m (10-6)	3.15 m (10-6)	225 (9)
1.2 m x 1.2 m (4' X 4')	125 (5)	1.45 m (4-10)	1.45 m (4-10)	125 (5)	3.0 m x 1.5 m (10' X 5')	250 (10)	3.5 m (11-8)	2.0 m (6-8)	250 (10)
1.5 m x 600 (5' X 2')	150 (6)	1.8 m (6-0)	900 (3-0)	150 (6)	3.0 m x 1.8 m (10' X 6')	250 (10)	3.5 m (11-8)	2.3 m (7-8)	250 (10)
1.5 m x 900 (5' X 3')	150 (6)	1.8 m (6-0)	1.2 m (4-0)	150 (6)	3.0 m x 1.8 m (10' X 6')	250 (10)	3.5 m (11-8)	2.3 m (7-8)	250 (10)
1.5 m x 1.2 m (5' X 4')	150 (6)	1.8 m (6-0)	1.5 m (5-0)	150 (6)	3.0 m x 2.1 m (10' X 7')	250 (10)	3.5 m (11-8)	2.6 m (8-8)	250 (10)
1.5 m x 1.5 m (5' X 5')	150 (6)	1.8 m (6-0)	1.8 m (6-0)	150 (6)	3.0 m x 2.4 m (10' X 8')	250 (10)	3.5 m (11-8)	2.9 m (9-8)	250 (10)
1.8 m x 600 (6' X 2')	175 (7)	2.15 m (7-2)	950 (3-2)	175 (7)	3.0 m x 2.7 m (10' X 9')	250 (10)	3.5 m (11-8)	3.2 m (10-8)	250 (10)
1.8 m x 900 (6' X 3')	175 (7)	2.15 m (7-2)	1.25 m (4-2)	175 (7)	3.0 m x 3.0 m (10' X 10')	250 (10)	3.5 m (11-8)	3.5 m (11-8)	250 (10)
1.8 m x 1.2 m (6' X 4')	175 (7)	2.15 m (7-2)	1.55 m (5-2)	175 (7)	3.3 m x 1.2 m (11' X 4')	275 (11)	3.85 m (12-10)	1.75 m (5-10)	275 (11)
1.8 m x 1.5 m (6' X 5')	175 (7)	2.15 m (7-2)	1.85 m (6-2)	175 (7)	3.3 m x 1.8 m (11' X 6')	275 (11)	3.85 m (12-10)	2.35 m (7-10)	275 (11)
1.8 m x 1.8 m (6' X 6')	175 (7)	2.15 m (7-2)	2.15 m (7-2)	175 (7)	3.3 m x 2.4 m (11' X 8')	275 (11)	3.85 m (12-10)	2.95 m (9-10)	275 (11)
2.1 m x 1.2 m (7' X 4')	200 (8)	2.5 m (8-4)	1.6 m (5-4)	200 (8)	3.3 m x 3.0 m (11' X 10')	275 (11)	3.85 m (12-10)	3.55 m (11-10)	275 (11)
2.1 m x 1.5 m (7' X 5')	200 (8)	2.5 m (8-4)	1.9 m (6-4)	200 (8)	3.3 m x 3.3 m (11' X 11')	275 (11)	3.85 m (12-10)	3.85 m (12-10)	275 (11)
2.1 m x 1.8 m (7' X 6')	200 (8)	2.5 m (8-4)	2.2 m (7-4)	200 (8)	3.6 m x 1.2 m (12' X 4')	300 (12)	4.2 m (14-0)	1.8 m (6-0)	300 (12)
2.1 m x 2.1 m (7' X 7')	200 (8)	2.5 m (8-4)	2.5 m (8-4)	200 (8)	3.6 m x 1.8 m (12' X 6')	300 (12)	4.2 m (14-0)	2.4 m (8-0)	300 (12)
2.4 m x 1.2 m (8' X 4')	200 (8)	2.8 m (9-4)	1.6 m (5-4)	200 (8)	3.6 m x 2.4 m (12' X 8')	300 (12)	4.2 m (14-0)	3.0 m (10-0)	300 (12)
2.4 m x 1.5 m (8' X 5')	200 (8)	2.8 m (9-4)	1.9 m (6-4)	200 (8)	3.6 m x 3.0 m (12' X 10')	300 (12)	4.2 m (14-0)	3.6 m (12-0)	300 (12)
2.4 m x 1.8 m (8' X 6')	200 (8)	2.8 m (9-4)	2.2 m (7-4)	200 (8)	3.6 m x 3.6 m (12' X 12')	300 (12)	4.2 m (14-0)	4.2 m (14-0)	300 (12)
2.4 m x 2.1 m (8' X 7')	200 (8)	2.8 m (9-4)	2.5 m (8-4)	200 (8)					
2.4 m x 2.4 m (8' X 8')	200 (8)	2.8 m (9-4)	2.8 m (9-4)	200 (8)					

REVISIONS	
DATE	DESCRIPTION
9-7-89	DRAWN
3-27-90	REVISED
10-21-93	REVISED
8-23-94	REVISED
3-17-97	REVISED
8-9-07	REVISED

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		DETAIL: PRECAST CONCRETE BOX CULVERT SECTION

SCALE: VERT. NONE
HORIZ. DATE

DRAWN BY CNH
CHECKED BY

PLOT DATE = 12/24/2008
 FILE NAME = P:\MDDT\HEADON\unit43642\m259\sup.dgn
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 USER NAME = headon