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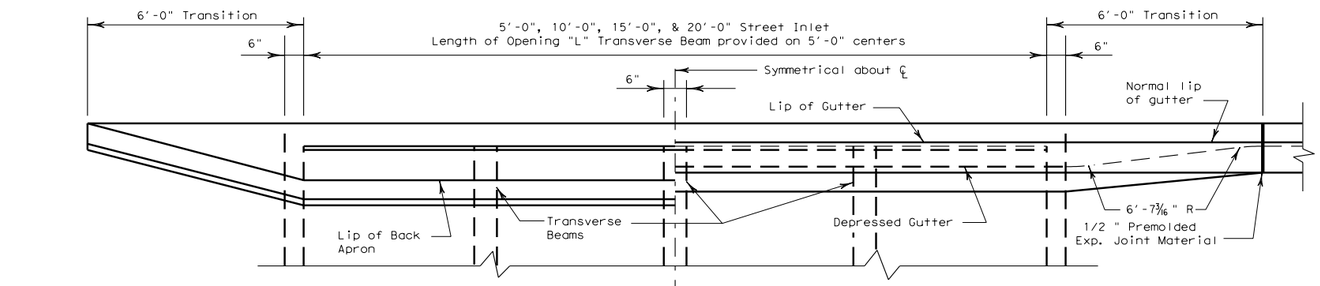
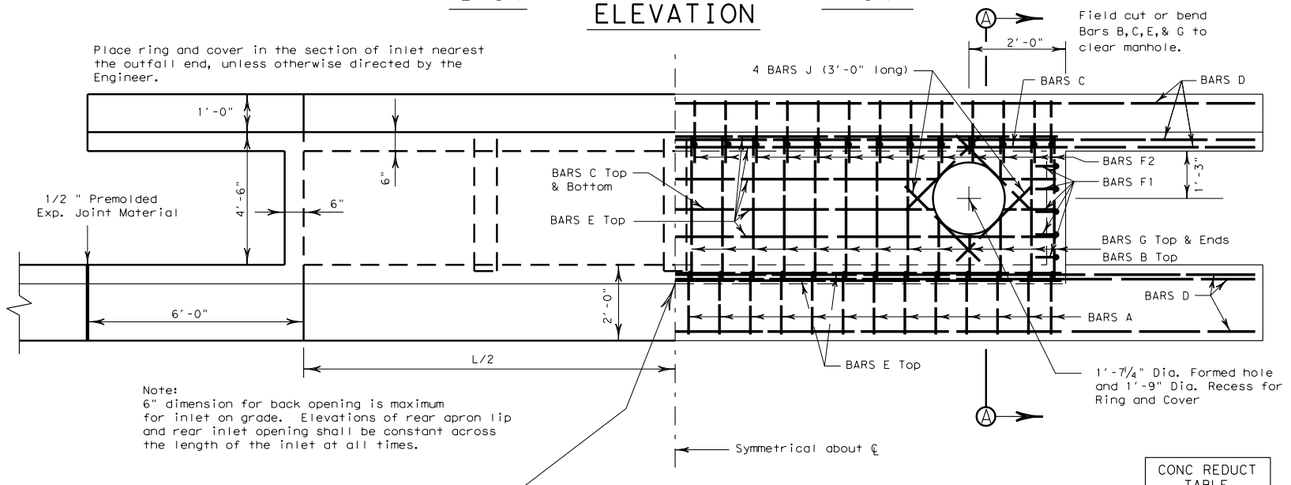
http://www.dot.state.tx.us/ftw/specinfo/standard.htm ci4ob02bcfw.dgn

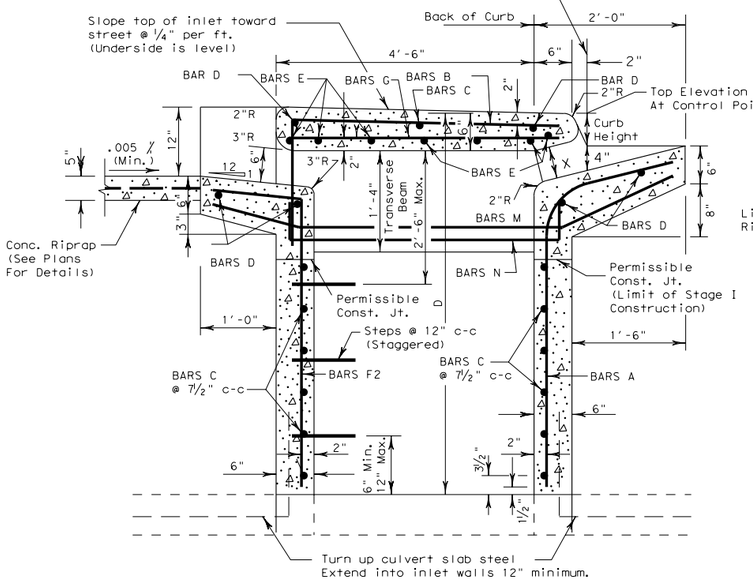
LEVELS DISPLAYED 1





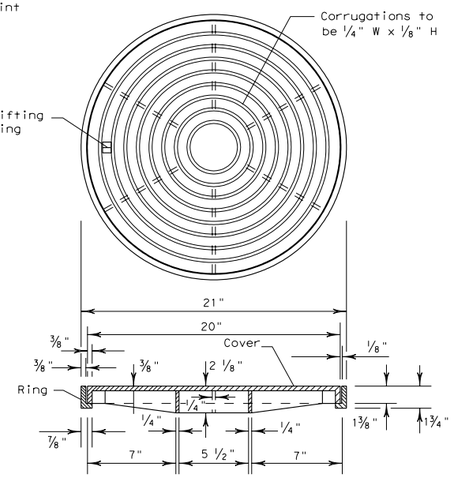
CONC REDUCT TABLE	
Dia.	C.Y.
18"	0.05
24"	0.09
30"	0.14
36"	0.20
42"	0.26
48"	0.36

Note:
Front & rear aprons, curbs, and top to be constructed during Stage II.



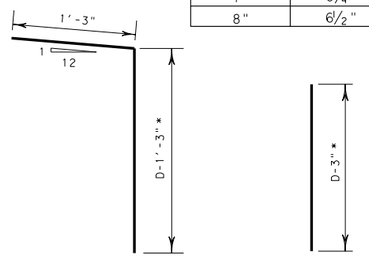
NOTE: Bars "B" Form Grate For Back Opening

SECTION A-A

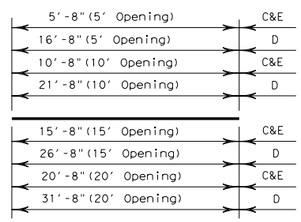


CAST IRON RING & COVER DETAIL

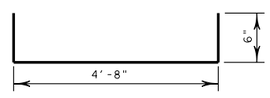
FRONT THROAT DIMENSION X	
CURB HEIGHT	X
5"	5"
6"	5 7/8"
7"	6 1/4"
8"	6 1/2"



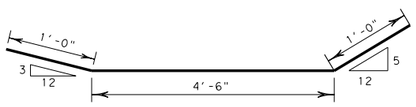
BARS F2 BARS F1



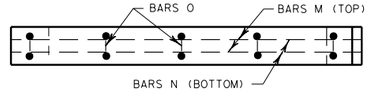
BARS C, D, &E



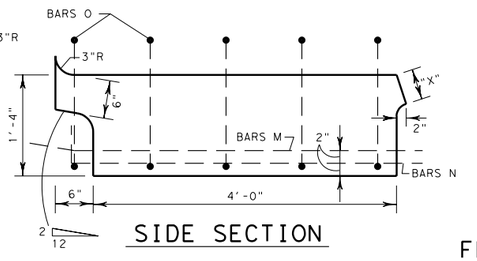
BARS N



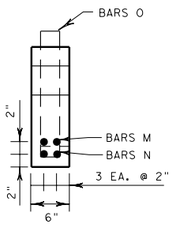
BARS M



TOP VIEW



SIDE SECTION



FRONT VIEW

TRANSVERSE BEAM DETAIL
(Beams Provided On 5'-0" Centers)

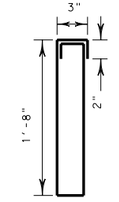
20' Street Inlet 'D'=4.00' (Includes 3 Transverse Beams)												
Bars	M	N	O	A*	B	C	D	E	F1*	F2*	G	J
Number	6	6	15	34	34	9	6	7	16	34	46	4
Size	#4	#4	#4	#4	#4	#4	#4	#6	#4	#4	#4	#4
Spacing	-	-	12"	7 1/2"	7 1/2"	-	-	-	7 1/2"	7 1/2"	7 1/2"	-
Length	6'-6"	5'-6"	4'-5"	4'-5"	6'-4"	20'-8"	31'-8"	20'-8"	3'-9"	4'-0"	4'-8"	3'-0"
Weight	26	22	44	100	144	124	127	217	40	91	143	8
				Totals		Steel=1086 Lbs.			Conc.=9.25 C.Y.			
For Depth over 4'	Steel=1086 Lbs. +110.3 Lbs/LF					Conc.=9.21 C.Y. +0.926 CY/LF						

15' Street Inlet 'D'=4.00' (Includes 2 Transverse Beams)												
Bars	M	N	O	A*	B	C	D	E	F1*	F2*	G	J
Number	4	4	10	26	26	9	6	7	16	26	38	4
Size	#4	#4	#4	#4	#4	#4	#4	#6	#4	#4	#4	#4
Spacing	-	-	12"	7 1/2"	7 1/2"	-	-	-	7 1/2"	7 1/2"	7 1/2"	-
Length	6'-6"	5'-6"	4'-5"	4'-5"	6'-4"	15'-8"	26'-8"	15'-8"	3'-9"	4'-0"	4'-8"	3'-0"
Weight	17	15	30	77	110	94	107	165	40	69	119	8
				Totals		Steel= 851 Lbs.			Conc.=7.38 C.Y.			
For Depth over 4'	Steel= 851 Lbs. +93.9 Lbs/LF					Conc.=7.38 C.Y. +0.741 CY/LF						

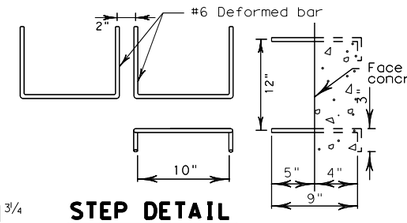
10' Street Inlet 'D'=4.00' (Includes 1 Transverse Beam)												
Bars	M	N	O	A*	B	C	D	E	F1*	F2*	G	J
Number	2	2	5	18	18	9	6	7	16	18	30	4
Size	#4	#4	#4	#4	#4	#4	#4	#6	#4	#4	#4	#4
Spacing	-	-	12"	7 1/2"	7 1/2"	-	-	-	7 1/2"	7 1/2"	7 1/2"	-
Length	6'-6"	5'-6"	4'-5"	4-5"	6'-4"	10'-8"	21'-8"	10'-8"	3'-9"	4'-0"	4'-8"	3'-0"
Weight	9	7	15	53	76	64	87	112	40	48	94	8
				Totals		Steel= 613 Lbs.			Conc.=5.55 C.Y.			
For Depth over 4'	Steel= 613 Lbs. +67. Lbs/LF					Conc.=5.55 C.Y. +0.556 CY/LF						

5' Street Inlet 'D'=4.00'								
Bars	A*	B	C	D	E	F1*	F2*	G	J
Number	10	10	9	6	7	16	10	25	4
Size	#4	#4	#4	#4	#6	#4	#4	#4	#4
Spacing	7 1/2"	7 1/2"	-	-	-	7 1/2"	7 1/2"	7 1/2"	-
Length	4'-5"	6'-4"	5'-8"	16'-8"	5'-8"	3'-9"	4'-0"	4'-8"	3'-0"
Weight	30	34	45	67	60	40	27	90	8
			Totals			Steel= 398 Lbs.		Conc.=3.72 C.Y.	
For Depth Over 4'	Steel= 398 Lbs. +46.2 Lbs./LF					Conc.=3.72 C.Y. +0.370 CY/LF			

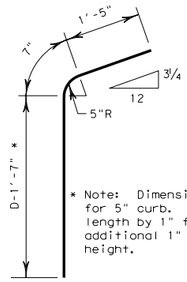
Note: Maximum Depth of Inlet Shall Be 10'.



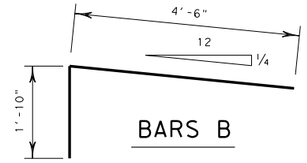
BARS O



STEP DETAIL



* Note: Dimension shown for 5" curb. Increase length by 1" for each additional 1" of curb height.



BARS B

BARS A

GENERAL NOTES

1. All concrete shall be Class "A".
2. Chamfer all exposed corners 3/4" except where otherwise noted.
3. Dimensions related to reinforcing steel are to the centers of bars.
4. Field cut and bend bars as necessary to accommodate storm drain pipe.
5. Cast iron ring and cover shall conform to Item 471.
6. During Stage I construction, inlets will not be constructed above subgrade elevation unless permission is granted by the Engineer.
7. A temporary wood cover shall be installed after Stage 1 is completed, and will remain in place until Stage 2 begins.
8. The location of inlet as shown in the plans refers to the control point at the face of curb and mid-point of the inlet.
9. A sealed 1/2" expansion joint shall be placed along all vertical faces abutting concrete pavement. Class 3, 4, 5, or 7 joint sealant shall be used to seal joint.

Texas Department of Transportation
FORT WORTH DISTRICT
TYPE 4-C CURB INLET
6" OPEN BACK INLET ON BOX CULVERT
FOR USE W/ 5" TO 8" BARRIER CURB
5',10',15' & 20' OPENINGS
CI(4)(OB)-02-BC(FW)

FED.RD. DIV.NO.	PROJECT NO.		SHEET NO.
6			
STATE	DIST.	COUNTY	
TEXAS	FW		
CONT.	SECT.	JOB	HIGHWAY NO.

New August 2002

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