DISCLAIMER:
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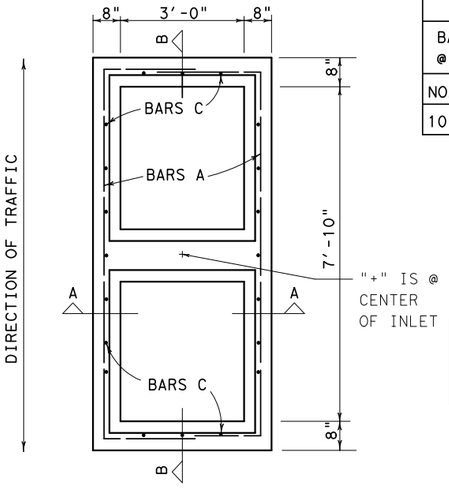
http://www.dot.state.tx.us/ftw/specinfo/standard.htm gi502fw.dgn

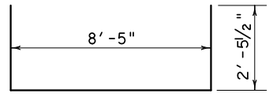
LEVELS DISPLAYED

TABLE OF QUANTITIES TYPE 5 INLET 'D' = 4'-0"															
BARS A @ 12"±		BARS B-1 @ 12"±		BARS B-2 @ 12"±		BARS C @ 12"±		BARS R		BARS Q @ 9" ±		STEPS @12"(#6)	
NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.
10	13'-4"	7	6'-6"	3	11'-4"	20	3'-9½"	4	5'-6"	4	3'-8"	3	2'-10"

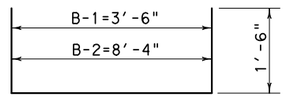
TOTAL STEEL	230.65 LBS.
TOTAL CONC.	3.47 C.Y.
ADDITIONAL STEEL P.L.F.	35.43 LBS.
ADDITIONAL CONC. P.L.F.	0.601 C.Y.



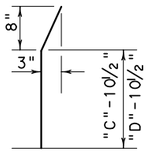
PLAN



BARS A



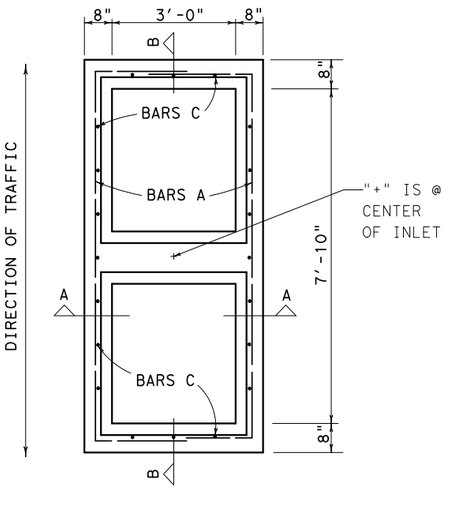
BARS B-1 & B-2



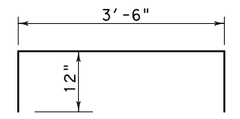
BARS C

TABLE OF QUANTITIES TYPE 5-C INLET 'C' = 1'-6"									
BARS A @ 12"±		BARS C @ 12"±		BARS R		BARS Q @ 9" ±		STEPS @12"(#6)	
NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.
6	13'-4"	20	1'-3½"	4	5'-6"	4	3'-8"	1	2'-10"

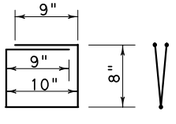
TOTAL STEEL	100.00 LBS.
TOTAL CONC.	1.00 C.Y.
ADDITIONAL STEEL P.L.F.	35.43 LBS.
ADDITIONAL CONC. P.L.F.	0.601 C.Y.



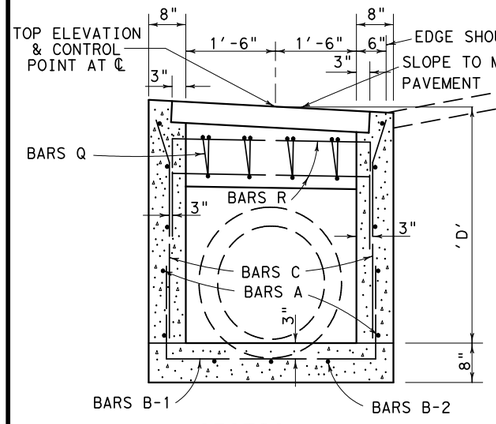
PLAN



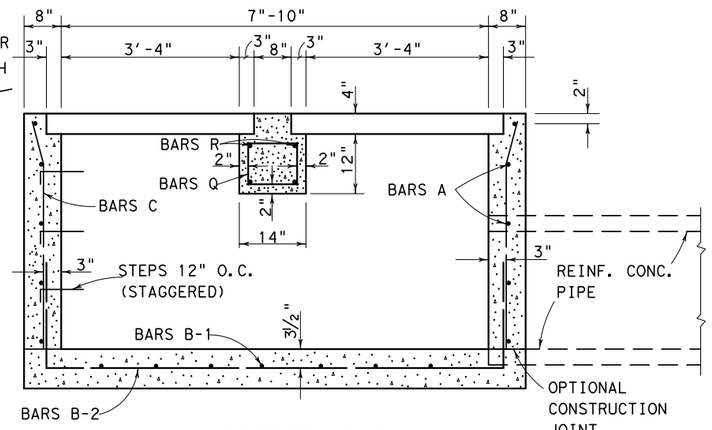
BARS R



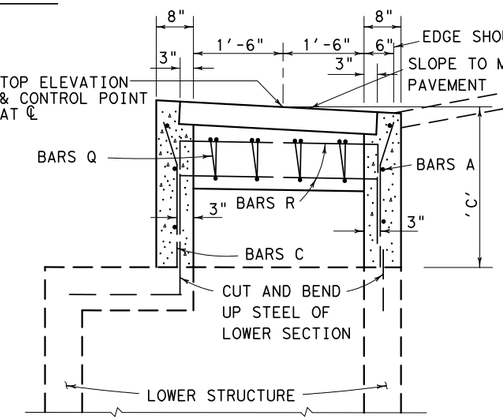
BARS Q



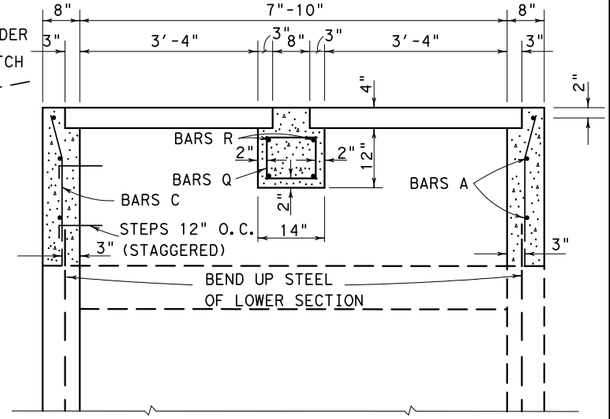
SECTION A-A



SECTION B-B

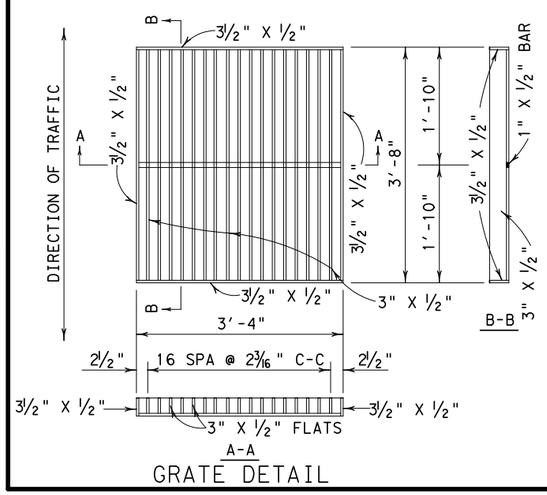


SECTION A-A

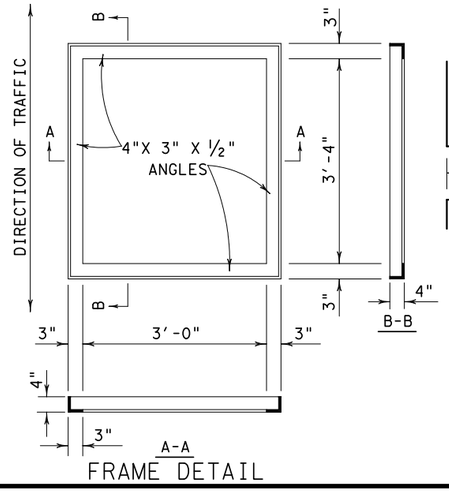


SECTION B-B

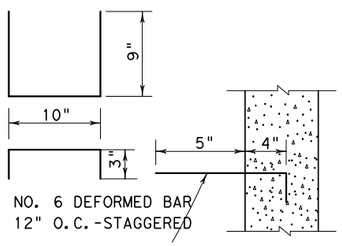
TYPE 5 STRUCTURE



GRATE DETAIL



FRAME DETAIL



STEPS

CONC. REDUCTION

PIPE DIA.	C.Y. CONC. ONE PIPE
18"	0.07
21"	0.10
24"	0.12
27"	0.15
30"	0.18
33"	0.22
36"	0.26
42"	0.35
48"	0.45
54"	0.57
60"	0.70

TYPE 5-C STRUCTURE

GENERAL NOTES:

1. ALL CONCRETE SHALL BE CLASS "A".
2. LOCATION GIVEN IN PLANS IS TO CENTROID OF TOP STRUCTURE. BOTTOM STRUCTURE MAY BE POSITIONED AS REQUIRED TO ALIGN WITH TOP STRUCTURE, STORM DRAIN PIPES AND OTHER ADJACENT STRUCTURES.
3. ALL REINFORCING STEEL SHALL BE NO. 4 BARS. STEPS ARE TO BE NO.6 BARS. DIMENSIONS RELATING TO STEEL ARE TO CENTERS OF BARS. FIELD CUT AND BEND BARS AS REQUIRED TO ACCOMMODATE TIES TO LOWER STRUCTURE AND TO CLEAR PIPES.
4. REDUCE CONCRETE QUANTITIES IN TABLES FOR AREA OF EACH PIPE IN STRUCTURE.
5. GRATE AND FRAME SHALL CONFORM TO ITEM 471.
6. INLET TOP MAY BE CAST MONOLITHICALLY WITH CONCRETE PAVEMENT. IF NOT PLACED MONLOLITHICALLY, A SEALED ½" EXPANSION JOINT SHALL BE PLACED AROUND THE TOP OF THE INLET STRUCTURE, TO THE DEPTH OF CONCRETE PAVEMENT. CLASS 3,4,5 OR 7 JOINT SEALANT SHALL BE USED TO SEAL JOINT.

Revisions:
10/09-Revised order of notes

Texas Department of Transportation
FORT WORTH DISTRICT

GRATED INLET DETAILS
TYPES 5 AND 5-C

GI-5-02 (FW)

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

Original Aug. 2002

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