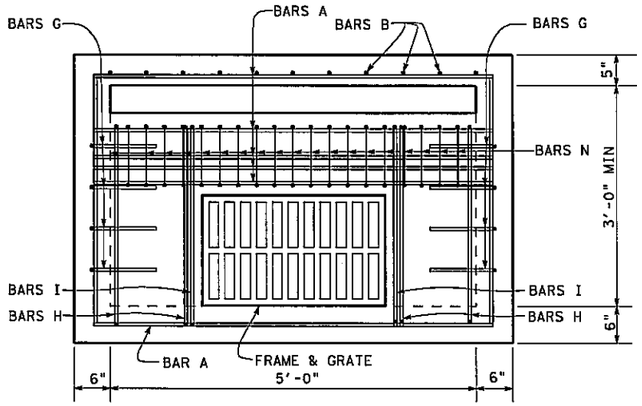
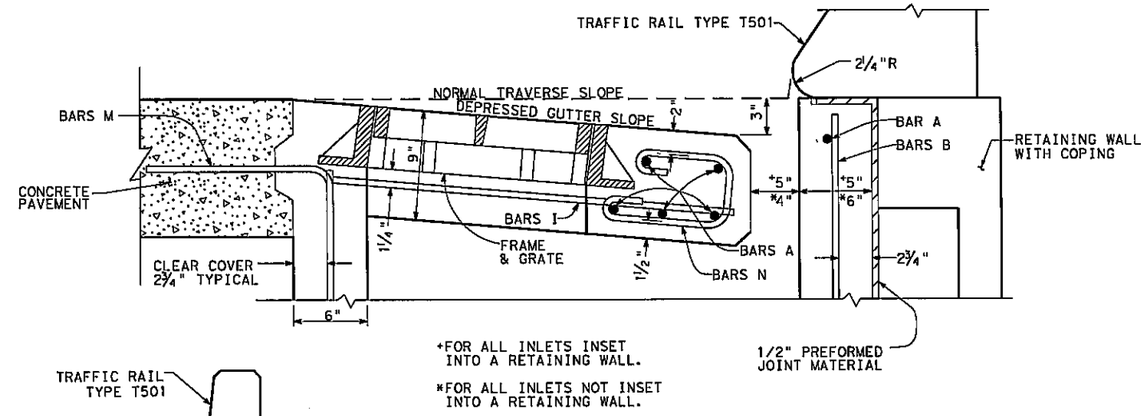
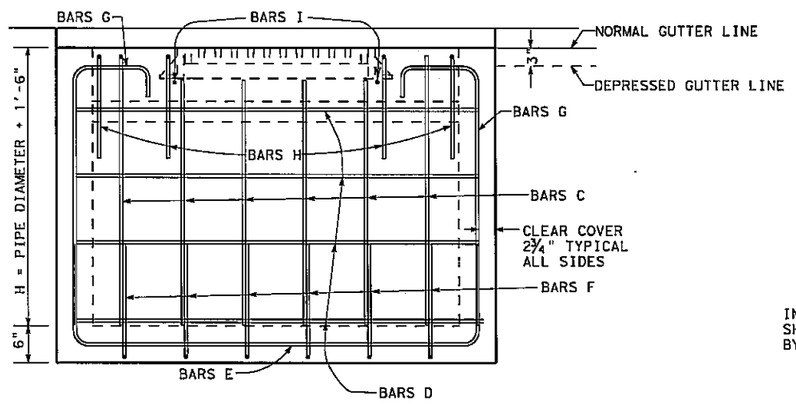


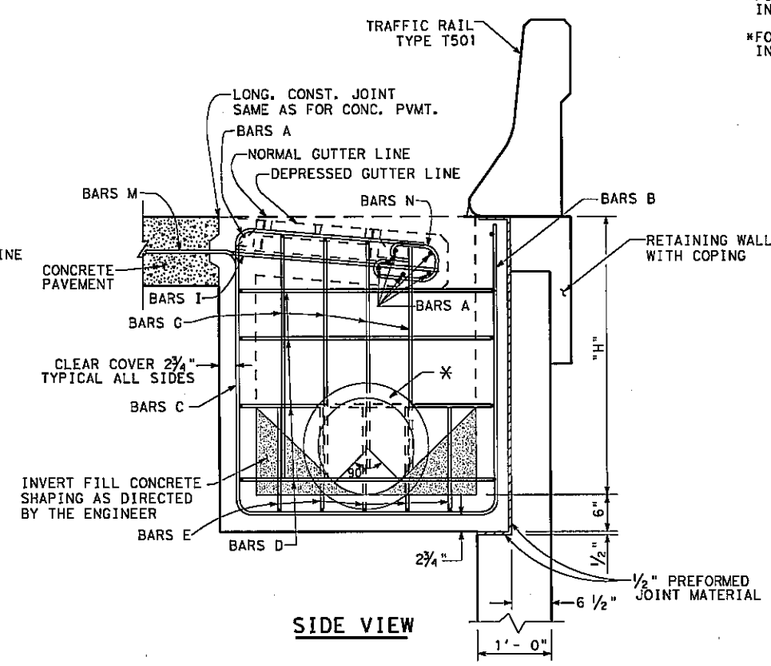
PLAN VIEW



TOP OF INLET DETAIL

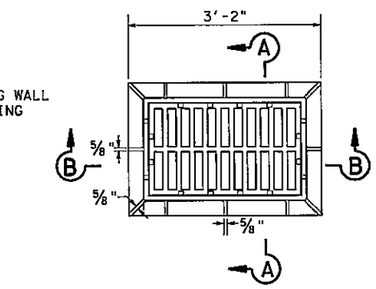


ELEVATION VIEW

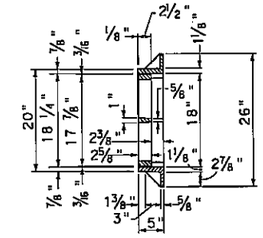


SIDE VIEW

* PIPES PARALLEL TO THE RETAINING WALL ARE NOT PERMITTED WITHIN MSE BACKFILL.

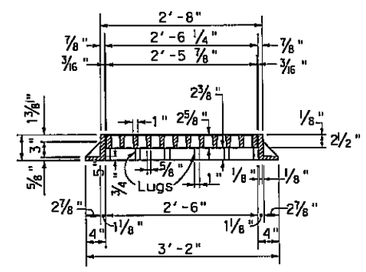


PLAN

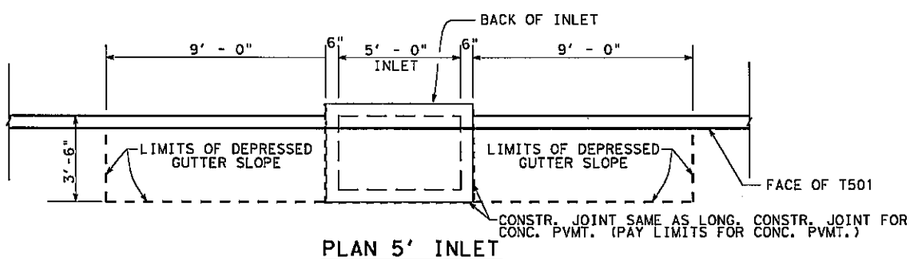


SECTION A-A

FRAME AND GRATE TO BE OF GRAY CAST IRON CONFORMING TO A.S.T.M. SPEC. A-48 FOR CLASS NO. 30 CAST IRON



SECTION B-B



PLAN 5' INLET

NOTE:

FRAME AND GRATE TO BE OF GRAY CAST IRON CONFORMING TO A.S.T.M. SPEC. A-48 FOR CLASS NO. 30 CAST IRON

THIS DETAIL IS FOR A RETAINING WALL INLET ON A CAST-IN-PLACE RETAINING WALL. FOR PRECAST RETAINING WALLS THE CONTRACTOR SHALL PROVIDE RAIL, COPING AND INLET DETAILS FOR APPORVAL BEFORE CONSTRUCTION OF THE INLET

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

LEVELS DISPLAYED

REVISED ON 9/10/08

NOT TO SCALE

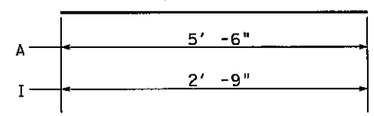
SHEET 1 OF 2

Texas Department of Transportation
Dallas District

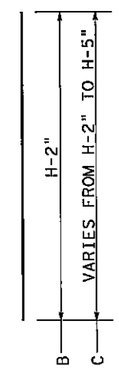
RETAINING WALL INLET TYPE I

RWI(TY I)-08

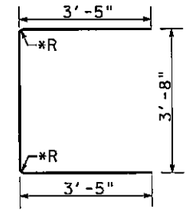
FILE: RWI(TY I)-08	DN: TxDOT	CK: TxDOT	DW:	CK:
©	DISTRICT	FEDERAL AID PROJECT		SHEET
	DAL			
	COUNTY	CONTROL	SECT	JOB	HIGHWAY



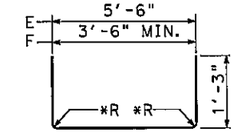
BARS "A"-#6 BARS
BARS "I" & "Q"-#4 BARS



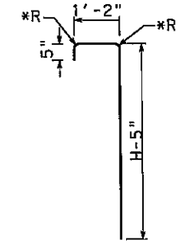
BARS "B" & "C"-#4 BARS



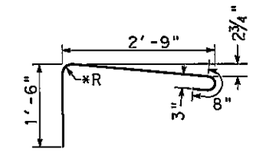
BAR "D"-#4 BARS



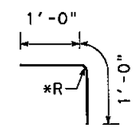
BARS "E" & "F"-#4 BARS



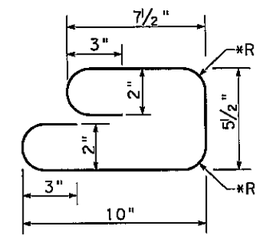
BAR "G"-#4 BARS



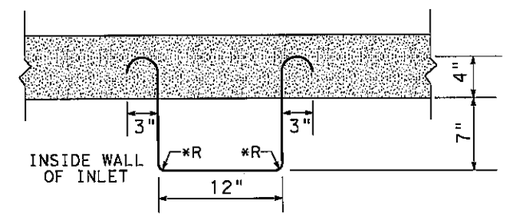
BAR "H"-#4 BARS



BAR "M"-#4 BARS



BAR "N"-#4 BARS



DETAIL OF INLET STEP
INLET STEP SHALL BE NO. 6
GALVANIZED REINFORCING BAR

* MINIMUM INSIDE DIAMETER OF BAR BENDS AS NOTED IN ITEM 440

INLET REINFORCING STEEL AND CONCRETE

INLET SIZE		BAR "A"					BAR "B"					BAR "C" *					BAR "D"					BAR "E"					BAR "F"					BAR "G"					BAR "H"				
HEIGHT FT.	WIDTH FT.	NO.	SZ.	SPACING	LENGTH	WT.	NO.	SZ.	SPACING	LENGTH	WT.	NO.	SZ.	SPACING	LENGTH*	WT.	NO.	SZ.	SPACING	LENGTH	WT.	NO.	SZ.	SPACING	LENGTH	WT.	NO.	SZ.	SPACING	LENGTH	WT.	NO.	SZ.	SPACING	LENGTH	WT.	NO.	SZ.	SPACING	LENGTH	WT.
2.5	3.0	7	6	AS SHN	5'-6"	58	11	4	6"C.C.	2'-4"	17	6	4	10"C.C.	2'-4"	9	4	4	12"C.C.	10'-6"	28	5	4	7"C.C.	8'-0"	27	6	4	10"C.C.	6'-0"	24	8	4	7"C.C.	3'-8"	20	4	4	AS SHN	4'-11"	13
3.0	3.0	7	6	AS SHN	5'-6"	58	11	4	6"C.C.	2'-10"	21	6	4	10"C.C.	2'-10"	11	6	4	12"C.C.	10'-6"	42	5	4	7"C.C.	8'-0"	27	6	4	10"C.C.	6'-0"	24	8	4	7"C.C.	4'-2"	22	4	4	AS SHN	4'-11"	13
3.5	3.0	7	6	AS SHN	5'-6"	58	11	4	6"C.C.	3'-4"	24	6	4	10"C.C.	3'-4"	13	6	4	12"C.C.	10'-6"	42	5	4	7"C.C.	8'-0"	27	6	4	10"C.C.	6'-0"	24	8	4	7"C.C.	4'-8"	25	4	4	AS SHN	4'-11"	13
4.0	3.0	7	6	AS SHN	5'-6"	58	11	4	6"C.C.	3'-10"	28	6	4	10"C.C.	3'-10"	15	8	4	12"C.C.	10'-6"	56	5	4	7"C.C.	8'-0"	27	6	4	10"C.C.	6'-0"	24	8	4	7"C.C.	5'-2"	28	4	4	AS SHN	4'-11"	13
4.5	3.0	7	6	AS SHN	5'-6"	58	11	4	6"C.C.	4'-4"	32	6	4	10"C.C.	4'-4"	17	8	4	12"C.C.	10'-6"	56	5	4	7"C.C.	8'-0"	27	6	4	10"C.C.	6'-0"	24	8	4	7"C.C.	5'-8"	30	4	4	AS SHN	4'-11"	13
5.0	3.0	7	6	AS SHN	5'-6"	58	11	4	6"C.C.	4'-10"	36	6	4	10"C.C.	4'-10"	19	10	4	12"C.C.	10'-6"	70	5	4	7"C.C.	8'-0"	27	6	4	10"C.C.	6'-0"	24	8	4	7"C.C.	6'-2"	33	4	4	AS SHN	4'-11"	13
5.5	3.0	7	6	AS SHN	5'-6"	58	11	4	6"C.C.	5'-4"	39	6	4	10"C.C.	5'-4"	21	10	4	12"C.C.	10'-6"	70	5	4	7"C.C.	8'-0"	27	6	4	10"C.C.	6'-0"	24	8	4	7"C.C.	6'-8"	36	4	4	AS SHN	4'-11"	13
6.0	3.0	7	6	AS SHN	5'-6"	58	11	4	6"C.C.	5'-10"	43	6	4	10"C.C.	5'-10"	23	12	4	12"C.C.	10'-6"	84	5	4	7"C.C.	8'-0"	27	6	4	10"C.C.	6'-0"	24	8	4	7"C.C.	7'-2"	38	4	4	AS SHN	4'-11"	13
7.0	3.0	7	6	AS SHN	5'-6"	58	11	4	6"C.C.	6'-10"	50	6	4	10"C.C.	6'-10"	27	14	4	12"C.C.	10'-6"	98	5	4	7"C.C.	8'-0"	27	6	4	10"C.C.	6'-0"	24	8	4	7"C.C.	8'-2"	44	4	4	AS SHN	4'-11"	13

* REDUCE BAR LENGTH AS
NECESSARY TO PROVIDE
CLEARANCE UNDER GRATE

INLET REINFORCING STEEL AND CONCRETE (CONT.)

INLET SIZE		BAR "I"					BAR "M"					BAR "N"					TOTALS	
HEIGHT FT.	WIDTH FT.	NO.	SZ.	SPACING	LENGTH	WT.	NO.	SZ.	SPACING	LENGTH	WT.	NO.	SZ.	SPACING	LENGTH	WT.	STEEL LBS.	CONC. C.Y.
2.5	3.0	2	4	AS SHN	2'-9"	4	7	4	24"C.C.	2'-0"	9	21	3	3"C.C.	2'-5"	19	227	1.63
3.0	3.0	2	4	AS SHN	2'-9"	4	7	4	24"C.C.	2'-0"	9	21	3	3"C.C.	2'-5"	19	250	1.80
3.5	3.0	2	4	AS SHN	2'-9"	4	7	4	24"C.C.	2'-0"	9	21	3	3"C.C.	2'-5"	19	258	1.96
4.0	3.0	2	4	AS SHN	2'-9"	4	7	4	24"C.C.	2'-0"	9	21	3	3"C.C.	2'-5"	19	281	2.13
4.5	3.0	2	4	AS SHN	2'-9"	4	7	4	24"C.C.	2'-0"	9	21	3	3"C.C.	2'-5"	19	289	2.29
5.0	3.0	2	4	AS SHN	2'-9"	4	7	4	24"C.C.	2'-0"	9	21	3	3"C.C.	2'-5"	19	311	2.46
5.5	3.0	2	4	AS SHN	2'-9"	4	7	4	24"C.C.	2'-0"	9	21	3	3"C.C.	2'-5"	19	320	2.62
6.0	3.0	2	4	AS SHN	2'-9"	4	7	4	24"C.C.	2'-0"	9	21	3	3"C.C.	2'-5"	19	342	2.79
7.0	3.0	2	4	AS SHN	2'-9"	4	7	4	24"C.C.	2'-0"	9	21	3	3"C.C.	2'-5"	19	373	3.12

CONCRETE TO BE DEDUCTED FOR ONE PIPE	
PIPE DIA.	CONC. C.Y.
15"	0.04
18"	0.05
21"	0.07
24"	0.09
27"	0.11
30"	0.14
36"	0.20

GENERAL NOTES:

1. ALL CONCRETE SHALL BE CLASS "A".
2. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
3. INLET STEPS SPACED 14" C.C. AND LOCATED AND DIRECTED BY THE ENGINEER, SHALL BE PROVIDED AND INSTALLED IN ALL INLETS WHERE THE DEPTH EXCEEDS 5'-0".
4. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO THE CENTER OF THE BARS.
5. TOTAL QUANTITIES SHOWN FOR CONCRETE AND REINFORCING STEEL ARE APPROXIMATE AND ARE PLACED HEREON FOR INFORMATIONAL PURPOSES ONLY.

REVISED ON 9/10/08
NOT TO SCALE

SHEET 2 OF 2

Texas Department of Transportation
Dallas District

RETAINING WALL INLET TYPE I

RWI(TY I)-08

FILE: RWI(TY 1)-08	DN: TxDOT	CK: TxDOT	DW:	CK:
©	DISTRICT	FEDERAL AID PROJECT		SHEET
	DAL			
	COUNTY	CONTROL SECT JOB		HIGHWAY

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