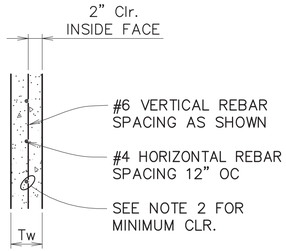
PROJECT NO.	SHEET



STANDARD WALL DETAIL

SCALE: N.T.S.

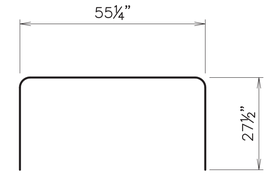
WALL DIMENSIONS

WALL HEIGHT (FT)	"Tw" WALL THICKNESS (IN)	VERT. REBAR SPACING (IN)
0'–4'	6.0"	12"
4'–8'	6.0"	9"
8'–10'	7.0"	9"
10'–12'	7.0"	6"
12'–16'	8.0"	6"
16'–20'	9.0"	6"

PAVEMENT SLAB DIMENSIONS

"A" INSIDE LENGTH (FT)	"B" INSIDE WIDTH (FT)	"TP" SLAB THICKNESS (IN)	REBAR REQ'D *	INTERMEDIATE SUPPORT BEAM REQ'D (Y OR N)
≤10'	≤ 4'	7.0"	#5	N
≤10'	4'–6'	8.0"	#5	N
≤10'	6'–8'	10.0"	#6	N
6'–8'	6'–8'	7.0"	#5	Y
8'–10'	8'–10'	8.0"	#5	Y

* 9" OC, EW, TB



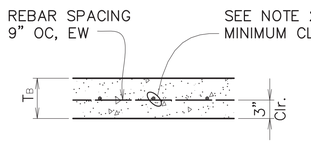
#5 BAR A

SCALE: N.T.S.
2 REQ'D PER FRAME

#5 BAR B

SCALE: N.T.S.
1 REQ'D PER FRAME

ABBREVIATIONS:
OC – ON CENTER
EW – EACH WAY
TB – TOP & BOTTOM



BOTTOM SLAB DETAIL

SCALE: N.T.S.

BOTTOM SLAB DIMENSIONS

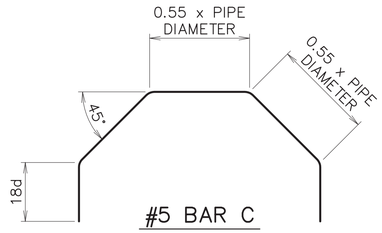
"TB" SLAB THICKNESS (IN)	"A" OR "B" MAXIMUM WIDTH OF OPENING INSIDE STRUCTURE (FT)	MAXIMUM DEPTH STRUCTURE (FT)	REBAR REQ'D
6.0"	4'	8'	#4
7.0"	6'	12'	#5
8.0"	8'	16'	#5
9.0"	10'	20'	#6

BOTTOM SLAB THICKNESS TO MEET MINIMUM CRITERIA SHOWN FOR OPENING WIDTH AND STRUCTURE DEPTH.

REBAR MINIMUM LAP AND DEVELOPMENT LENGTHS

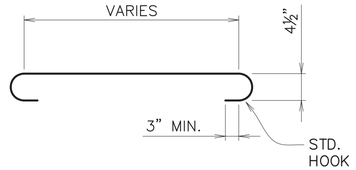
REBAR SIZE	LAP LENGTH (IN)	DEVELOPMENT LENGTH (IN)
#4	16"	12"
#5	20"	16"
#6	24"	19"

SHOP DRAWING DETAILING REQ'D TO PROVIDE MINIMUM LENGTHS OR ELSE USE STANDARD HOOKS



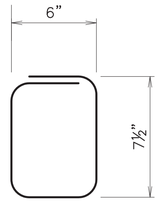
#5 BAR C

SCALE: N.T.S.
1 REQ'D PER PIPE ENTRANCE ≥ 36"ø



#5 BAR D

SCALE: N.T.S.
2 REQ'D PER EACH INTERMEDIATE BEAM



#3 BAR J

SCALE: N.T.S.
REQ'D STIRRUPS @ 4" OC

NOTE:

1. ALL REINFORCING STEEL TO BE DEFORMED GRADE 60 MINIMUM REBAR. STEEL BAR SIZE & SPACING MAY BE ADJUSTED AS LONG AS AREA OF STEEL IS MAINTAINED PER FOOT.
2. MINIMUM CONCRETE COVER FOR REBAR STEEL IS TO BE 3" FOR CONCRETE FACES CAST AGAINST EARTH, 2.5" FOR FACES PERMANENTLY EXPOSED TO EARTH AND 2" FOR ALL OTHERS.
3. CONCRETE COMPRESSIVE STRENGTH FOR CAST–IN–PLACE STRUCTURES TO BE 4000 PSI AT 28 DAYS MINIMUM.
4. SEE SHEET 702–99 FOR FRAME AND COVER DETAILS.
5. SLABS MAY BE PRECAST AND DOWELED INTO WALL SECTIONS. (SEE STD. PLAN 702–97)

A=LENGTH INSIDE OPENING MEASURED PARALLEL TO CURB
B=WIDTH INSIDE OPENING MEASURED PERPENDICULAR TO CURB

TOP SLAB DIMENSIONS

"A" INSIDE LENGTH (FT)	"B" INSIDE WIDTH (FT)	"TT" SLAB THICKNESS (IN)	* REBAR REQ'D
≤ 4'	≤ 4'	6.0"	#4
4'–6'	4'–6'	6.0"	#5
6'–8'	6'–8'	6.0"	#6
8'–20'	8'–10'	7.0"	#6

* 9" OC, EW, SET 2" CLR. FROM SLAB BOTTOM

MIDDLE SLAB UNDER PAVEMENT DIMENSIONS

"A" INSIDE LENGTH (FT)	"B" INSIDE WIDTH (FT)	"TMP" SLAB THICKNESS (IN)	* REBAR REQ'D
≤20'	≤ 4'	7.0"	#4
≤20'	4'–6'	7.0"	#5
≤20'	6'–8'	8.5"	#6
≤20'	8'–10'	10.0"	#6

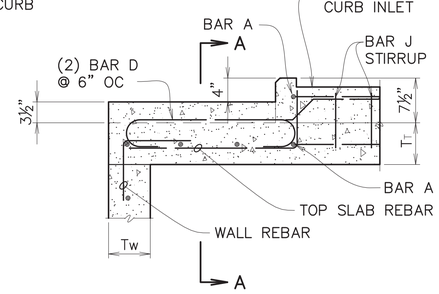
* 9" OC, EW, SET 2" CLR. FROM SLAB BOTTOM

MIDDLE SLAB OUTSIDE PAVEMENT DIMENSIONS

"A" INSIDE LENGTH (FT)	"B" INSIDE WIDTH (FT)	"TM" SLAB THICKNESS (IN)	* REBAR REQ'D
≤20'	≤ 4'	7.0"	#4
≤20'	4'–6'	7.0"	#5
≤20'	6'–8'	7.0"	#6
≤20'	8'–10'	8.0"	#6

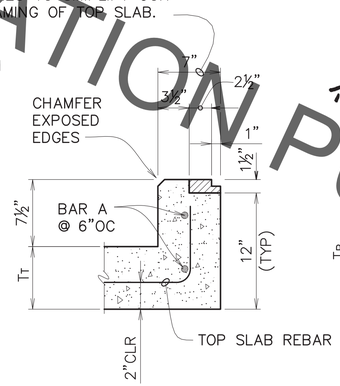
* 9" OC, EW, SET 2" CLR. FROM SLAB BOTTOM

LEDGE WIDTH MAY BE EXTENDED TO MAXIMUM WIDTH OF 1'–2" FOR SMALLER PIPE STRUCTURES TO SIMPLIFY CONSTRUCTION FRAMING OF TOP SLAB.



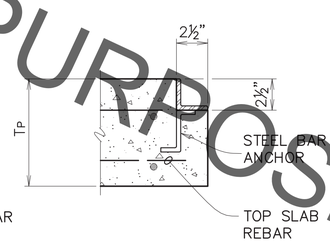
TOP SLAB INTERMEDIATE SUPPORT BEAM FOR DOUBLE CURB INLET

SCALE: N.T.S.



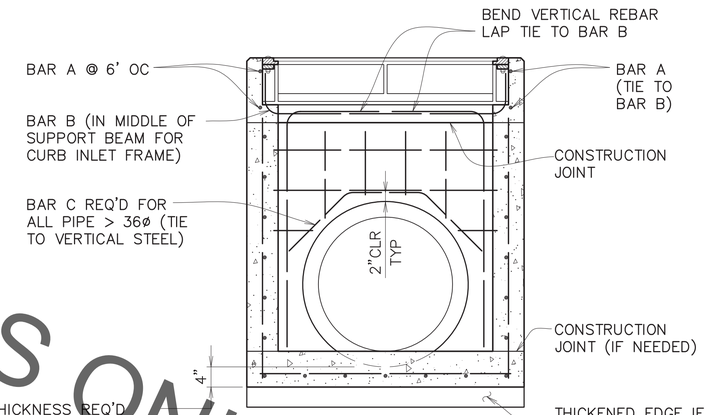
TYPE 1 FRAME SUPPORT DETAIL

SCALE: N.T.S.



TYPE 2 FRAME IN PAVEMENT SUPPORT DETAIL

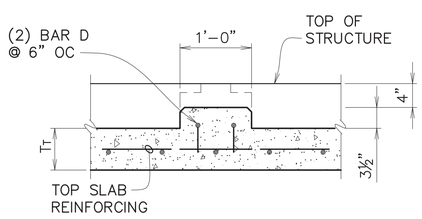
SCALE: N.T.S.



TYPICAL PIPE AND FRAME REINFORCEMENT

SCALE: N.T.S.

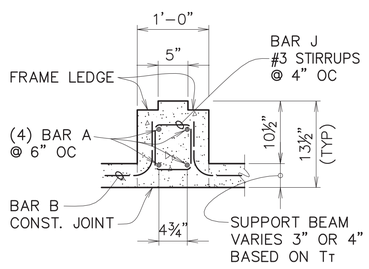
4" MIN. THICKNESS REQ'D IN BOTTOM SLAB BELOW PIPE OUTSIDE WALL. IF "TB" DOES NOT MEET MIN. THICKNESS REQ'D FOR PIPE O.D., PROVIDE THICKENED EDGE WITH MIN. WIDTH OF 2xTw. REINFORCE AS REQ'D. FOR BASE SLAB.



SECTION A–A

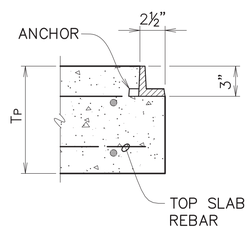
TOP SLAB INTERMEDIATE SUPPORT BEAM FOR DOUBLE CURB INLET

SCALE: N.T.S.



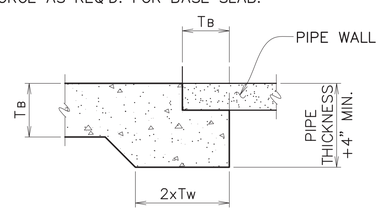
TYPICAL SUPPORT BEAM BETWEEN DOUBLE CURB INLETS

SCALE: N.T.S.



TYPE 3 FRAME IN PAVEMENT SUPPORT DETAIL

SCALE: N.T.S.



THICKENED EDGE FOR PIPE SUPPORT

SCALE: N.T.S.

DATE	DESCRIPTION REVISION	BY

STANDARD PLAN No.	DATED	SHT. No.
702–96	DEC. 6, 2010	1 OF 1

CAST–IN–PLACE DRAINAGE STRUCTURES (STRUCTURAL DETAILS)

ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE

DESIGNED	DRAWN	CHECKED	APPROVED
GLP	GLP	GLP	T. STEPHENS

FOR INFORMATION PURPOSES ONLY

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Thomas A. Stephens 3/16/2018