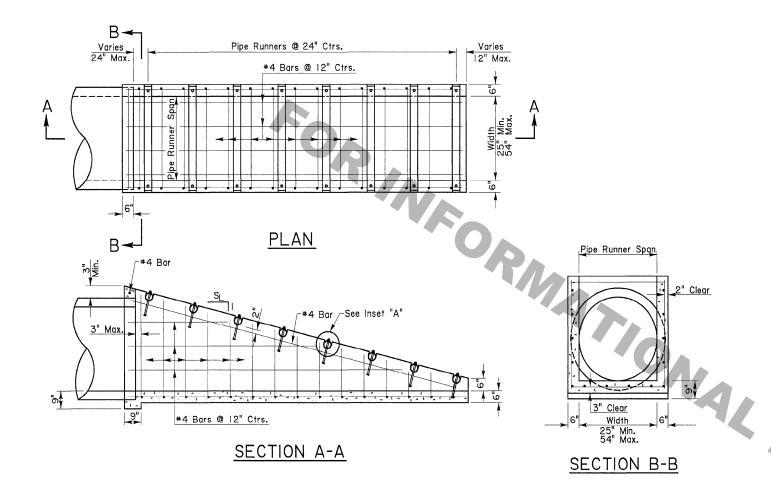
FEDERAL PROJECT | STATE PROJECT SHEET NO PARISH

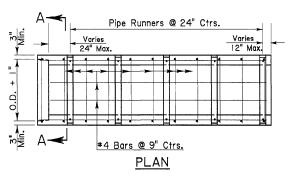
CAST-IN-PLACE ALTERNATE

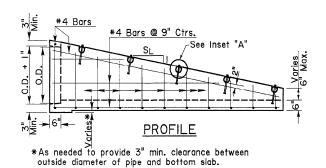


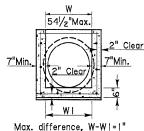
PRECAST ALTERNATE

- 1. Concrete to be 4000 psi & reinforcing steel to be Grade 60.
- 2. RCP bell ends which exceed the normal pipe outside diameter (0.D.) shall be removed.

 3. Pipe connections shall be sealed with flexible gasket material.
- 4. Exposed corners may be chamfered 3/4".







SECTION A-A

3/4" x 1'-0" Bolt, Washer & Hex Nut ASTM A 307 (An alternate Mechanical Anchor Bolt System may be used. See Qualified Products List.)

INSET "A"

General Notes: (Cast-In-Place & Precast)

- While a RCP culvert is detailed, this Safety End shall also be used with RCPA, CMP, CMPA, and RCB culverts. Multiple culverts will require multiple ends.
- Slope of Safety End walls (S_L:1) shall match the required sideslope. If no sideslope is given, a slope of 6:1 shall be required.
- 3) Pipe Runners shall be galvanized steel pipe conforming to ASTM A53, Type E or S, Grade B, 35ksi; or ASTM A501, 36ksi. Required Pipe Runner diameters and strengths for various maximum spans are:

Nominal	Strength/	Maximum * Span	Outside	Wall	Weight
Diameter	Schedule		<u>Diameter</u>	Thickness	Per Foot
3"	Std/40	11'-2"	3.5"	0.216"	7.58 lbs

- *Pipe Runners are designed for a traversing load of 1800 pounds at yield.
- Side Drain Safety Ends may be provided as cast-in-place or precast, and shall be in accordance with Section 702 of the LA DOTD Standard Specifications.



SETSD2

SIDE DRAIN SAFETY END TYPE 2

Pipe Sizes: 30" - 48" RCP

30" - 54" CMP 24" Eq. - 36" Eq. RCPA 24" Eq. - 42" Eq. CMPA

I-16-98 Added Special Detail Name SETSD2		JCM	STATE OF LOUISIANA			
I-24-94 General Revisions		MR	DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT			
6-24-92	24-92 Added Precast Alternate & revised Cast-In-Place					
8-5-91	-91 General Revisions		DESIGNED PAA	DETAILED KAJ	DIR. spdetail/saftyend	
DATE	DESCRIPTION		CHECKED JCM	CHECKED PAA	FILE softysd2.dgn	
REVISIONS			DADD WILLION SECTION			