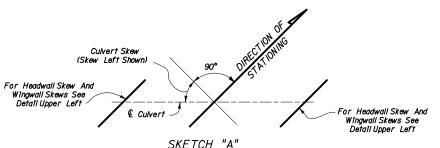


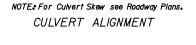
NOTE: Designs for box culverts under this index are to be produced only by computer analysis, utilizing the program named PSTDN55. Designs under this Index are to be limited to the live loads and dimensional restraints shown in the General Notes of this index and to the fill on the barrel(s) as shown in the roadway plans. It is the construction Contractors responsibility to provide for suppporting construction loads that exceed the above loadinas.

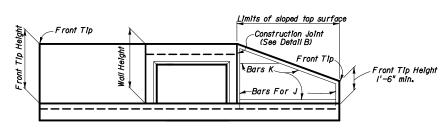


F Within these limits the top surface of the

FF Within these limits the top surface of the Wingwalls shall be sloped.

Winawalls shall be level.





END ELEVATION OF CULVERT

NOTE: Cut the vertical bars Fas required for the longest bar and use the remainder for the shortest bar in the wingwall. The vertical bars J and the horzontal bars K shall be constructed likewise. The lengths shown in the reinforcing steel bar schedule for bars F, J and K require cutting for sloped top wingwalls only.

GENERAL NOTES

DESIGN SPECIFICATIONS: A.A.S.H.T.O. 1996.

LOADING: HS20-44, Modified for Military Loading as Required or HS25, see Structures Design

SURFACE FINISH: The Class Surface finish for all concrete surfaces shall be a general surface finish.

SKEWED CONSTRUCTION JOINTS: Construction joints in barrels of culverts with skewed wingwalls may be placed parallel to the headwalls and the reinforcing steel, in the slabs may be cut provided that the cut reinforcing steel extends beyond the construc-tion Joint enough for splices to be made in accordance with the table (lower right) this sheet. The cost of construction Joints shall be at the expense of the contractor.

CULVERT EXTENTIONS: For cut backs and ties into existing concrete

* REINFORCING BAR SCHEDULE:

Heiaht less than

6 feet.

~ A2

DETAIL "J"

- A. When the depth is less than or equal to 2.0 feet, Bars C2 are utilized in the bottom of the top slab. In all other cases, Bars C2 are replaced with Bars CI spaced at 18 inches on
- B. When the skew angle for a headwall equals O degrees plus or minus II degrees the respective S Bars (S2 or S3) will not be utilized.
- C. When the barrel height is less than 6 Feet, Bars B2 will be
- D. If the span is less than five feet, Bars Al and A2 will be
- E. The portions of Bars "N" that extendthru Construction Joints into wingwalls above footings shall be given one coat of approved zinc rich paint and shall be encased in approved capped plastic (PVC) pipes filled with approved durable lubricant or cut back asphalt. The length and inside diameter of the plastic pipe shall be approximately $\frac{1}{4}$ larger than those of the bar.
- F. For culvert extensions Bar Cl is redesignated Bar C3 in the bottom slab.

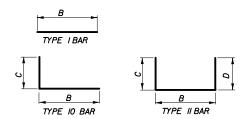


TABLE OF MINIMUM BAR SPLICE LENGTHS

AR SIZE	SPLICE	BAR SIZE	SPLICE
#4	/'-IO"	#8	4'-8"
# 5	2'-4"	#9	5'-3"
#6	2'-9"	#10	5'-l0 "
# 7	4'-0"	#//	6'-6"

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

CONCRETE BOX CULVERT CULVERT DETAILS

	Names	Dates	Approved By		
Designed By			State Drainage Engineer		
Drawn By	GFG	<i>I-8</i> 6	Revision	Sheet No.	Index No.
Checked By	RCB	<i>1−8</i> 6	00	lof 5	290

