

PLOT DATE = 8/25/2011

DATE

REVISED

## GENERAL NOTES

Build tops of headwalls paral

All construction joints shall be bonded according to Article 503.09 of the Standard

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. (IL Modified). See Special Provisions.

The 6" Porous Granular Material required per Art. 540.06 of the Standard Specifications shall also extend beneath the Box Culvert End Sections and shall be considered included in the cost of Precast Concrete Box Culverts and Box Culvert End Sections.

When lapping sheets of welded wire fabric, the overlap measured between the outermost cross wires of each fabric sheet shall not be less than 8".

End Sections will be paid for at the contract unit price per each for BOX CULVERT END SECTIONS, as outlined in Section 540 of the Standard Specifications.

Class SI Concrete shall be used throughout.

Concrete, Rebar, and Welded Wire Fabric quantities and lengths calculated for the cast-in-place End Sections may vary based on the precast box culverts supplied.

Drain holes shall be provided in accordance with Article 503.11 of the Standard

The design reinforcement areas shall conform to those found in Table 1 of AASHTO M273 for a 12'x4' box section except the extension of the As1 bars into the top slab shall be equal to (23 inches + 2 longitudinal wire spaces).

The box culvert end section may be built in the field or using precast construction methods. If the contractor elects to use precast construction methods, shop drawings and a proposed construction sequence shall be submitted to the Engineer for approval. See Special Provisions.

The ends of the precast box sections adjacent to the end section shall be formed without the male and female shapes specified in Article 8.1 of AASHTO M273. See Sections B-B. D-D and E-E on Sheet 2.

The design fill height for this box is less than 2 feet. The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M 273.

The joints between precast box sections shall be sealed and all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.

The Contractor is advised that a Temporary Soil Retention System (TSRS) may be necessary dependent upon their construction sequence. If required, the Contractor shall be responsible for all aspects (design, furnishing, installing, removal). As a TSRS is not specified in the Contract, the cost of a TSRS shall be considered as included in the contract unit price of the work specified.

All dimensions are in FEET (') - INCHES (") unless otherwise noted.

Drawings not to scale

SCALE.

SHEET NO.1 OF 4 SHEETS

## TOTAL BILL OF MATERIAL

Item	Unit	Total
Removal of Existing Structures No. 1	Each	1
Precast Concrete Box Culvert 12'x4' (M273)	Foot	38.0
Box Culvert End Sections, Culvert No. 1	Each	2
Name Plates	Each	1
Permanent Bench Marks	Each	1
Porous Granular Embankment	Cu.Yd.	55
Stone Riprap, Class A1	Ton	26

## GENERAL PLAN AND ELEVATION SINGLE 12'x4' PRECAST BOX CULVERT F.A.P. ROUTE 749 - SECTION 14BR.14CR.123CR STATION 126+55.00 S.N. 023-8064

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ID ELEVATION . 1 – S.N. 023–8064		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		14BR,14CR,123CR	EDGAR	115	19	
			CONTRACT NO. 70618			
STA. TO STA.	ILLINOIS FED. AID PROJECT					