

e -		USER NAME = atiemann	DESIGNED - KJH	REVISED -		CULVERT ASSEM		
AME	Bowman St S. Wacker Drive, Suite 1950 Chicago, Minole 60606 312-614-0380		DRAWN - AHT	REVISED -	STATE OF ILLINOIS			
z C	ONSULTING www.bowmanconsulting.com	PLOT SCALE = 2:0.0000 ':" / in.	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION	CULVERT - STRUCTURE		
FIL		PLOT DATE = 3/10/2021	DATE - 3/11/2021	REVISED -		SCALE:	SHEET CUL-06 OF CUL-10 SHEETS	

GENERAL NOTES

Box Culvert End Sections will be cast in place and using "Concrete Box Culvert" pay item.

Typical box section dimensions and materials shall be according to the requirements of ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Number of segments shown in Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor. See roadway plans for embankment slope (V:H).

1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications.

All components of the culvert tie detail shall be galvanized

according to the requirements of AASHTO M 111 or M 232 as applicable. $2\frac{1}{4}$ " x $\frac{5}{16}$ " plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

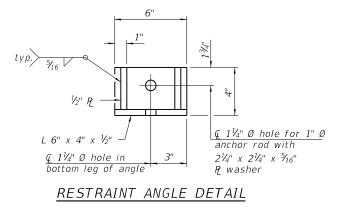
The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd. The 3" nominal space between adjacent end sections shall be filled with Class SI concrete in accordance with Article 540.06 of the Standard

Specifications. Cost included with Concrete Box Culverts used for Box Culvert End Sections.

Details for triple cell box culvert shown. Details for other multi-cell box culverts similar.



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1BLY SHEET Re No. 022-8300			F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
			344	2020-196-T			DUPAGE	122	61
						CONTRACT NO. 62M69			
TS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		