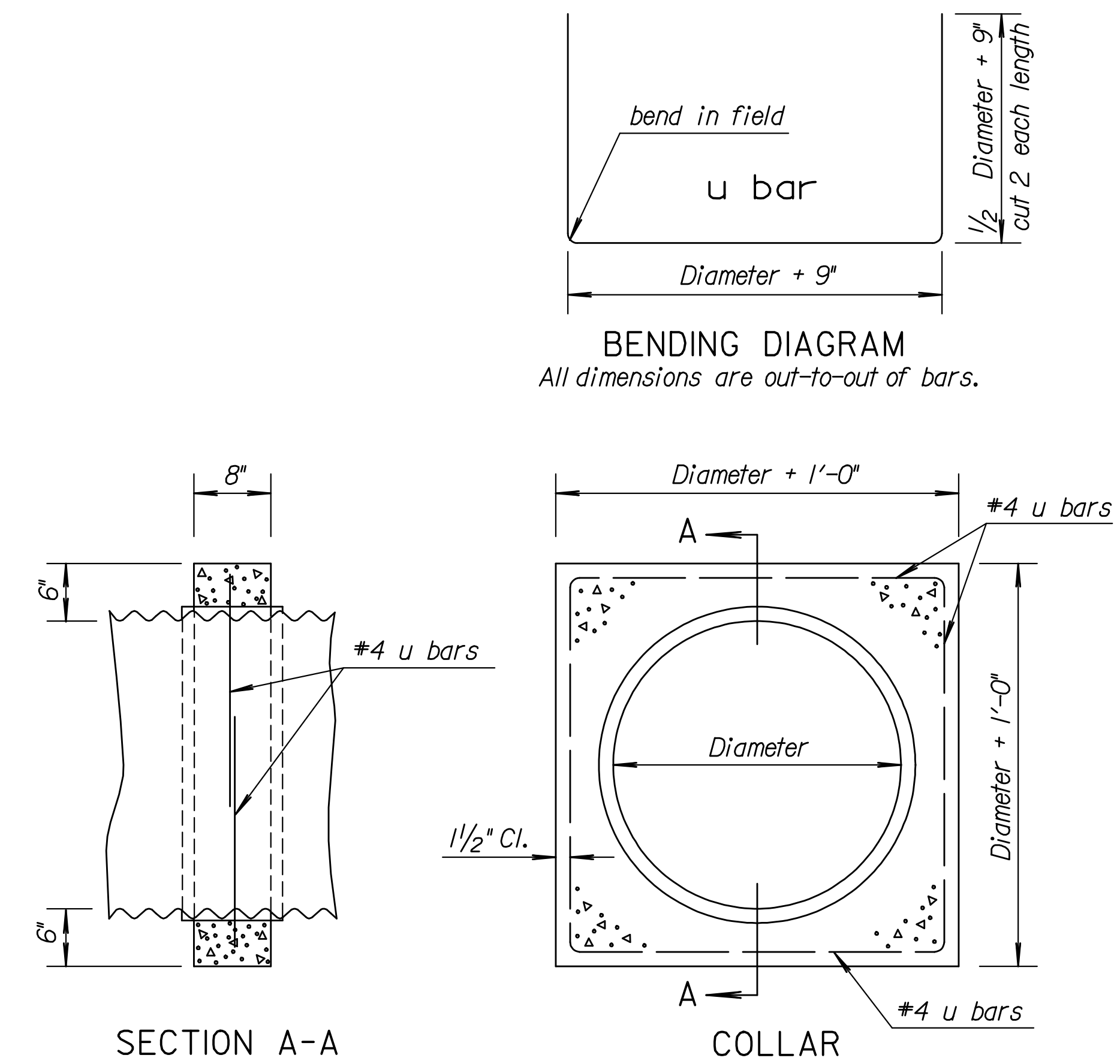
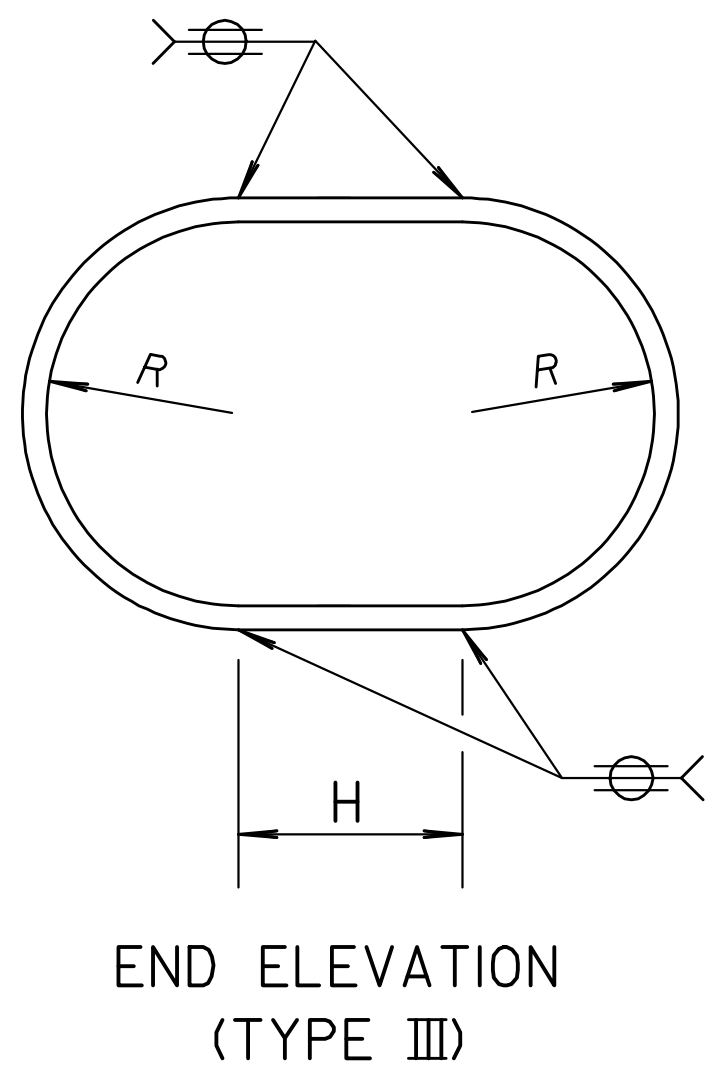
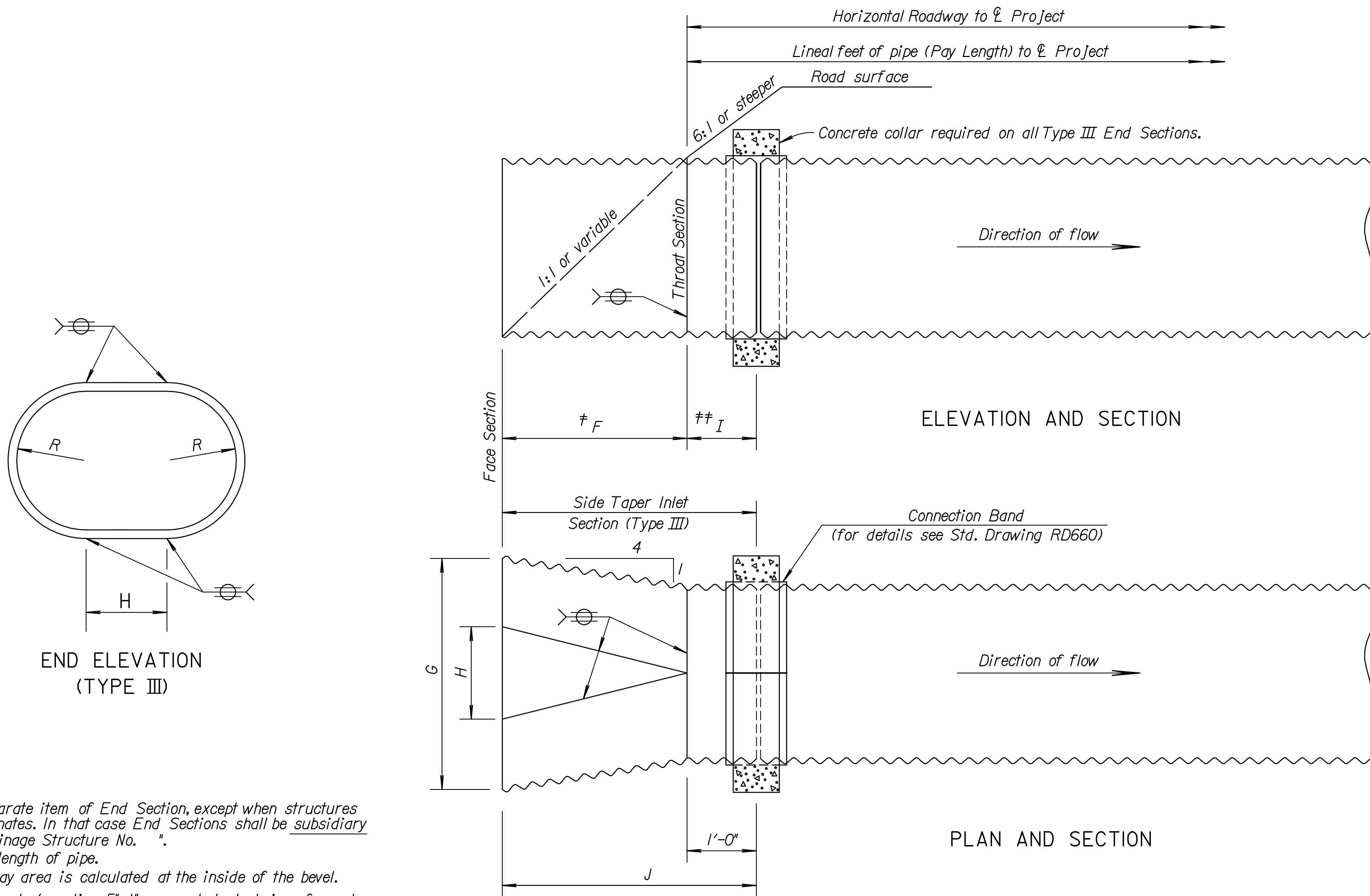


STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS				



NOTE: Seam welds to be cleaned and regalvanized or painted with a zinc-rich paint conforming to Kansas Department of Transportation Specification. Other methods of fabrication which meet requirements of face area and side taper slope will be acceptable, if approved by the Engineer.

Concrete Grade 2.5 may be used throughout. See bending diagrams and views above for reinforcing steel. All concrete and reinforcing steel will be subsidiary to the bid item "Cross Road Pipe" or "Drainage Structure No. ". For other details of corrugated metal pipe and Type I Metal End Section, see Standard Drawing RD660.

The culverts listed on this sheet may or may not indicate that the culvert installed will be reinforced concrete, steel, or aluminum.

Gain in pipe length due to fit of pipe at connecting band shall not be paid for.

‡ Paid for as separate item of End Section, except when structures are bid as alternates. In that case End Sections shall be subsidiary to bid item "Drainage Structure No. ".

‡‡ Included in pay length of pipe.

* Minimum waterway area is calculated at the inside of the bevel.

▲ Note: At the Contractor's option, 5"x1" corrugated steel pipe of equal gauge may be substituted for the 3"x1" corrugated steel pipe listed in the table with the following restrictions:

1. Fill height over top of pipe shall be less than 25 ft.
2. Pipe shall be fabricated with helical corrugations and lock seams or continuous welded seams.

SIDE TAPERED INLET SECTION (TYPE III)-NOMINAL DIMENSIONS											
Diam.	Min. W.W. Area X Sq.Ft.	R	F	G	H	I	J	GAUGE OF TYPE III E.S.			
								2 2/3" x 1/2" Corr.	3" x 1" Corr. ▲	6" x 2" Corr.	
24"	5.8	1'-0"	2'-0"	3'-4"	1'-4"	1'-8"	3'-8"		16		
30"	9.1	1'-3"	2'-6"	4'-2"	1'-8"	1'-10"	4'-4"		14		
36"	13.1	1'-6"	3'-0"	5'-0"	2'-0"	2'-0"	5'-0"		14	16	
42"	17.8	1'-9"	3'-6"	5'-10"	2'-4"	2'-2"	5'-8"		12	14	
48"	23.2	2'-0"	4'-0"	6'-8"	2'-8"	2'-4"	6'-4"		12	14	
54"	28.7	2'-3"	4'-6"	7'-4"	2'-10"	2'-2"	6'-8"		10	14	
60"	35.5	2'-6"	5'-0"	8'-2"	3'-2"	2'-4"	7'-4"		10	12	12
72"	51.3	3'-0"	6'-0"	9'-10"	3'-10"	2'-8"	8'-8"		8	12	12
84"	70.0	3'-6"	7'-0"	11'-6"	4'-6"	3'-0"	10'-0"		8	12	12
96"	91.6	4'-0"	8'-0"	13'-2"	5'-2"	3'-4"	11'-4"			10	10

PIPE CULVERT SUMMARY																				
Station	Location	Type	Size	Crown Grade Elev.	Flow Inlet		Horizontal Roadway		Degree of Rotation	Length of Pipe		Lin.Ft. of Pipe	End Sects.							
					LT.	RT.	LT.	RT.		LT.	RT.		Type I	Type III	LT.	RT.				

NO.	DATE	REVISIONS	BY	APP'D
2	1-28-05	Changed Class to Grade concrete	S.W.K.	J.O.B.
1	4-27-98	Added pipe corrugation option note	R.J.S.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

**METAL END SECT. FOR METAL PIPE
SIDE TAPERED INLET SECTION
(TYPE III) & PIPE GAUGE TABLE**

RD661

DESIGNED	6-10-05	APP'D. James O. Brewer
DESIGN CK.	DETAIL CK.	QUAN. CK.
		TRACE CK. Seitz

Drawn By : bert
 File : rd661.dgn (rd661)
 Plotted : 05-JUN-2006 06:39