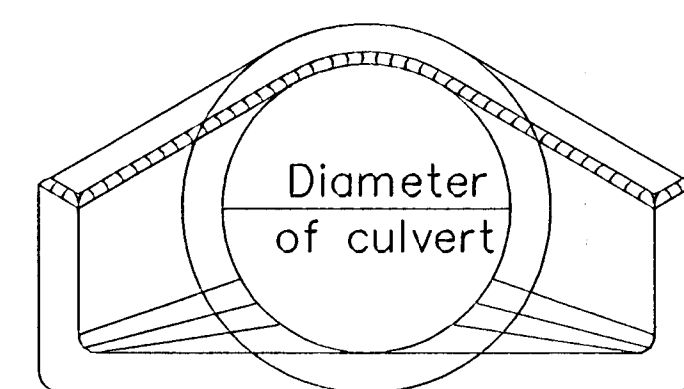
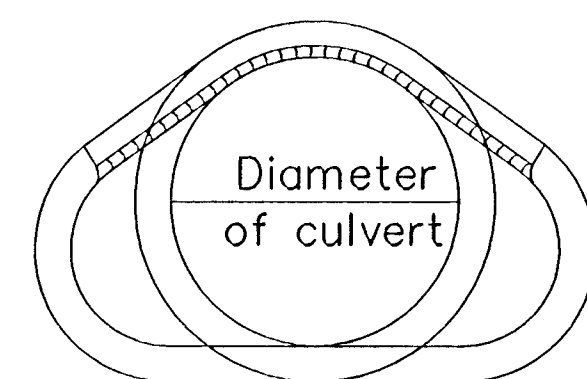
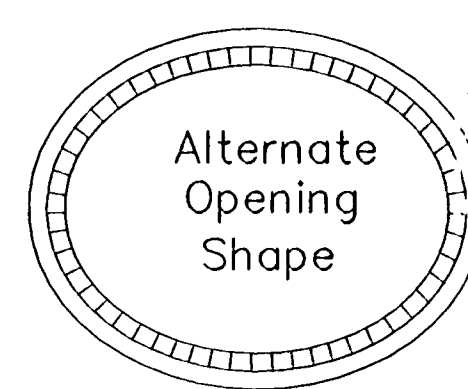


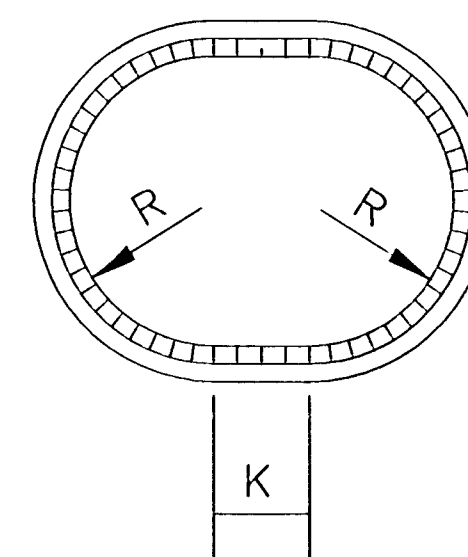
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	CED PROJECT NO.: 20051279	2006	11	17



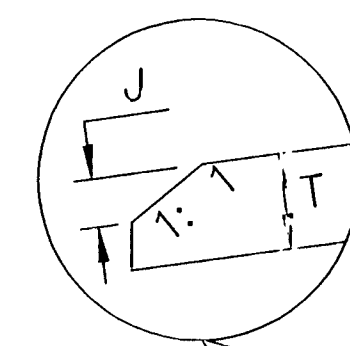
END ELEVATION (TYPE I)



SECTION A-A
Showing rounding of inside edge
of end section.



END ELEVATION
(TYPE III)

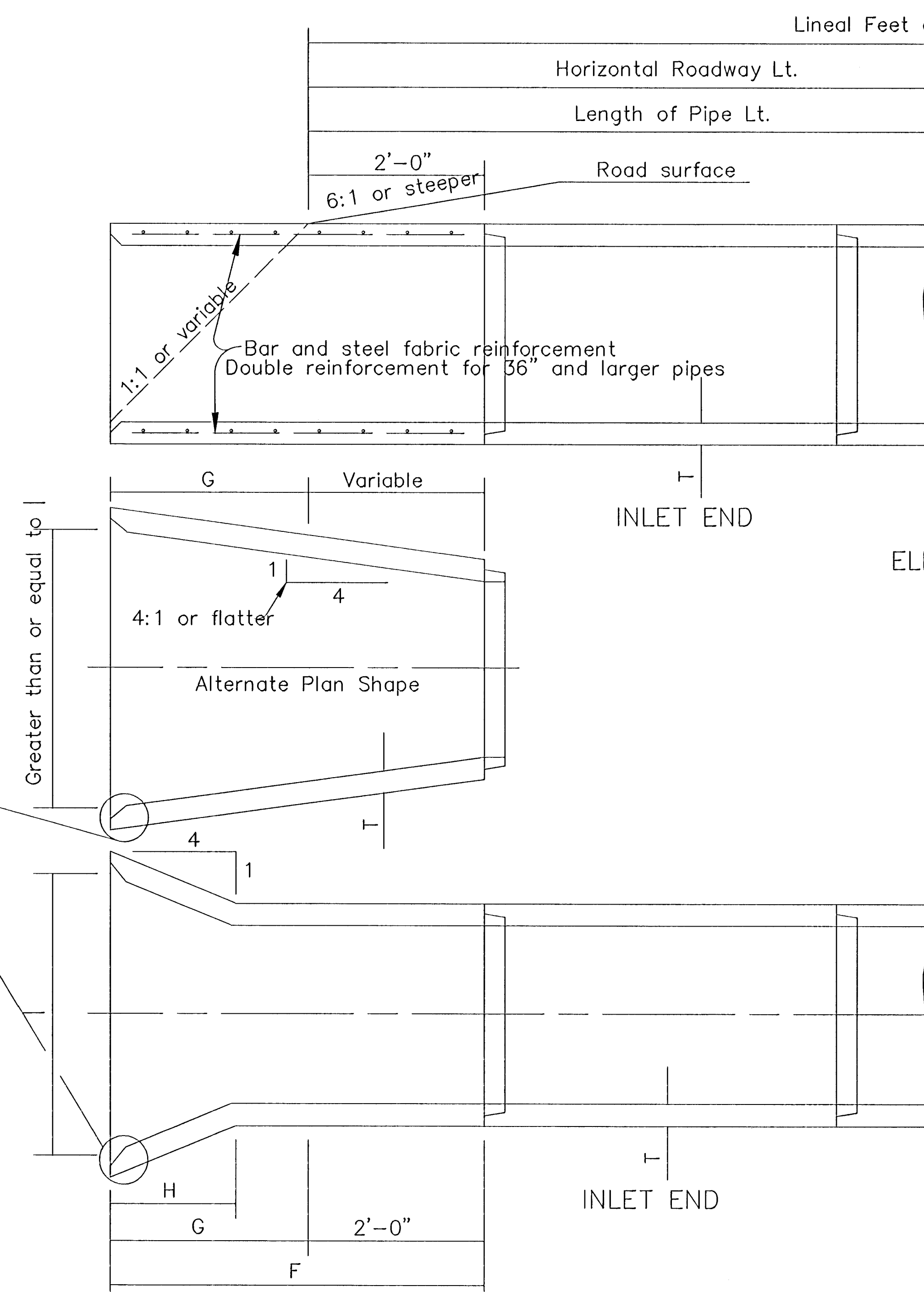


Ø Transition to round pipe.
Paid for as separate item of End Section, except when structures shall bid as alternates. In that case End Sections shall be subsidiary to bid item. Drainage Structure No. _____
Included in pay length of pipe.
Minimum roadway area is calculated at the inside of the bevel.

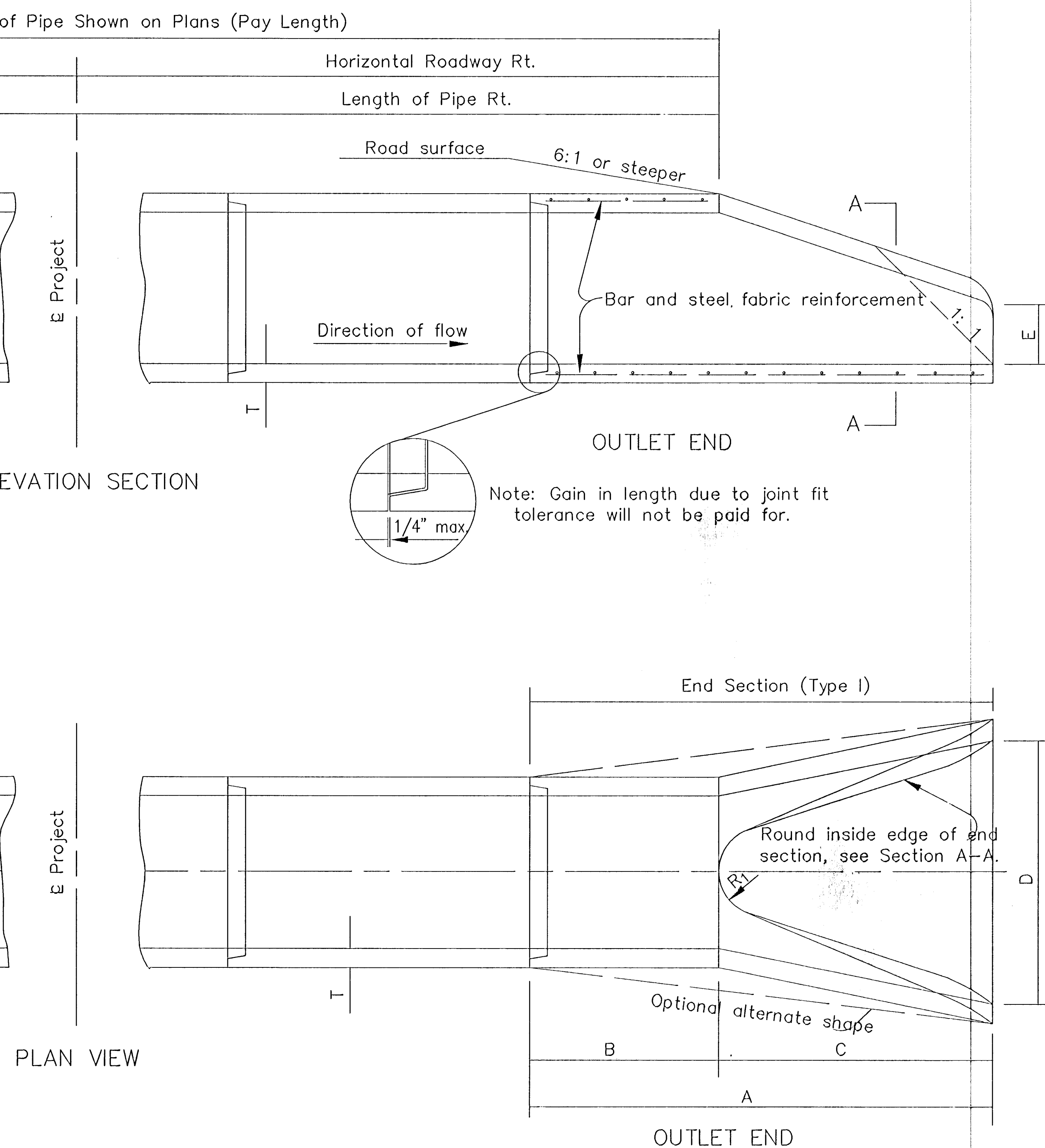
END SECTION (TYPE I) NOMINAL DIMENSIONS								
Diam.	A	B	C	D	E	R ₁	Slope	T
12"	6'-0 $\frac{7}{8}$ "	4'-0 $\frac{7}{8}$ "	2'-0"	2'-0"	4"	9	3: 1	2"
15"	6'-1"	3'-10"	2'-3"	2'-6"	6"	11	3: 1	2 $\frac{1}{4}$ "
18"	6'-1"	3'-10"	2'-3"	3'-0"	9"	12	3: 1	2 $\frac{1}{2}$ "
24"	6'-1 $\frac{1}{2}$ "	2'-6"	3'-7 $\frac{1}{2}$ "	4'-0"	9 $\frac{1}{2}$ "	14	3: 1	3"
30"	6'-1 $\frac{3}{4}$ "	1'-7 $\frac{3}{4}$ "	4'-6"	5'-0"	1'-0"	15	3: 1	3 $\frac{1}{2}$ "
36"	8'-1 $\frac{3}{4}$ "	2'-10 $\frac{3}{4}$ "	5'-3"	6'-0"	1'-3"	20	3: 1	4"
42"	8'-2"	2'-11"	5'-3"	6'-6"	1'-9"	22	3: 1	4 $\frac{1}{2}$ "
48"	8'-2"	2'-2"	6'-0"	7'-0"	2'-0"	22	3: 1	5"
54"	8'-2 $\frac{1}{4}$ "	2'-9 $\frac{1}{4}$ "	5'-5"	7'-6"	2'-3"	24	2.4 :	15 $\frac{1}{2}$ "
60"	8'-3"	3'-3"	5'-0"	8'-0"	2'-11"	24	2 :	6"
72"	8'-3"	1'-9"	6'-6"	9'-0"	3'-0"	24	1.86 :	1 7"
84"	9'-3 $\frac{1}{2}$ "	1'-9"	7'-6 $\frac{1}{2}$ "	10'-0"	3'-0"	24	1.6 :	1 8"

SIDE TAPERED INLET SECTION (TYPE III)—NOMINAL DIMENSIONS									
Diam.	Min. W.W. Area Sq.Ft.	F	G	H	I	J	K	R	T
24"	4.5	4'-3"	2'-3"	1'-5 $\frac{1}{8}$ "	2'-8"	1 $\frac{1}{2}$ "	8"	1'-0"	3"
30"	7.0	4'-9 $\frac{1}{2}$ "	2'-9 $\frac{1}{2}$ "	1'-9 $\frac{1}{2}$ "	3'-4"	2"	10"	1'-3"	3 $\frac{1}{2}$ "
36"	10.1	5'-4"	3'-4"	2'-1 $\frac{1}{2}$ "	4'-0"	2"	1'-0"	1'-6"	4"
42"	13.7	5'-10 $\frac{1}{2}$ "	3'-10 $\frac{1}{2}$ "	2'-5 $\frac{1}{8}$ "	4'-8"	2 $\frac{1}{2}$ "	1'-2"	1'-9"	4 $\frac{1}{2}$ "
48"	17.9	6'-5"	4'-5"	2'-10 $\frac{3}{8}$ "	5'-4"	3"	1'-4"	2'-0"	5"
54"	22.7	6'-11 $\frac{1}{2}$ "	4'-11 $\frac{1}{2}$ "	3'-2 $\frac{1}{2}$ "	6'-0"	3 $\frac{1}{2}$ "	1'-6"	2'-3"	5 $\frac{1}{2}$ "
60"	28.0	7'-6"	5'-6"	3'-6 $\frac{1}{8}$ "	6'-8"	4"	1'-8"	2'-6"	6"
72"	40.3	8'-7"	6'-7"	4'-3 $\frac{3}{8}$ "	8'-0"	5"	2'-0"	3'-0"	7"
84"	54.8	9'-8"	7'-8"	5'-0 $\frac{3}{8}$ "	9'-4"	6"	2'-4"	3'-6"	8"

Dimensions for alternate shapes shall be equal to or greater than those shown in the table, unless otherwise shown.



ELEVATION SECTION



PLAN VIEW

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

[illegible]

NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION CONCRETE END SECTIONS FOR CONCRETE PIPES TYPE I & SIDE TAPERED INLET SECTION (TYPE III)				
RD662				
FHWA APPROVAL	1- 8-92	APP'D.	James O. Brewer	
DESIGNED	DETAILED	QUANTITIES	TRACED BOWSER	
DESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK. SEITZ	