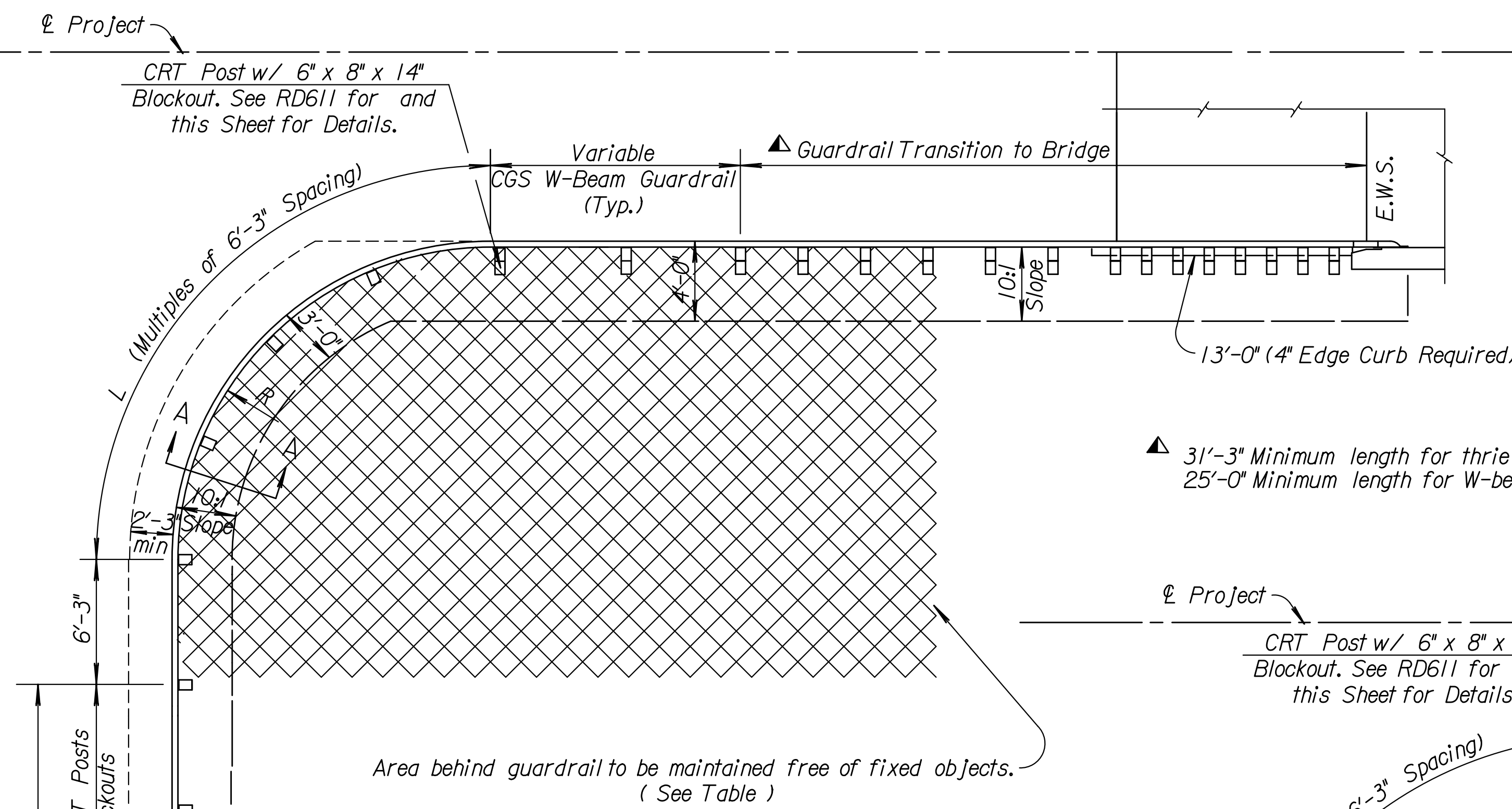


STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS				

**GENERAL NOTES**

The curved rail element is 12 ga, and shop bent.  
 See Standard Drawing RD611 and RD613 for guardrail details not shown on this sheet.  
 See Standard Drawing RD618 for details of Type II End Terminal.  
 Use wood Breakaway Posts through curved section of guardrail, all other posts may be either wood (shown) or steel with no mixing of types.  
 Use Type II Terminal at entrances or locations where end-on impacts with the terminal are not considered likely to occur.  
 Use a crashworthy end terminal at sideroad and ramp locations and appropriate length of guardrail to satisfy length of need requirements.

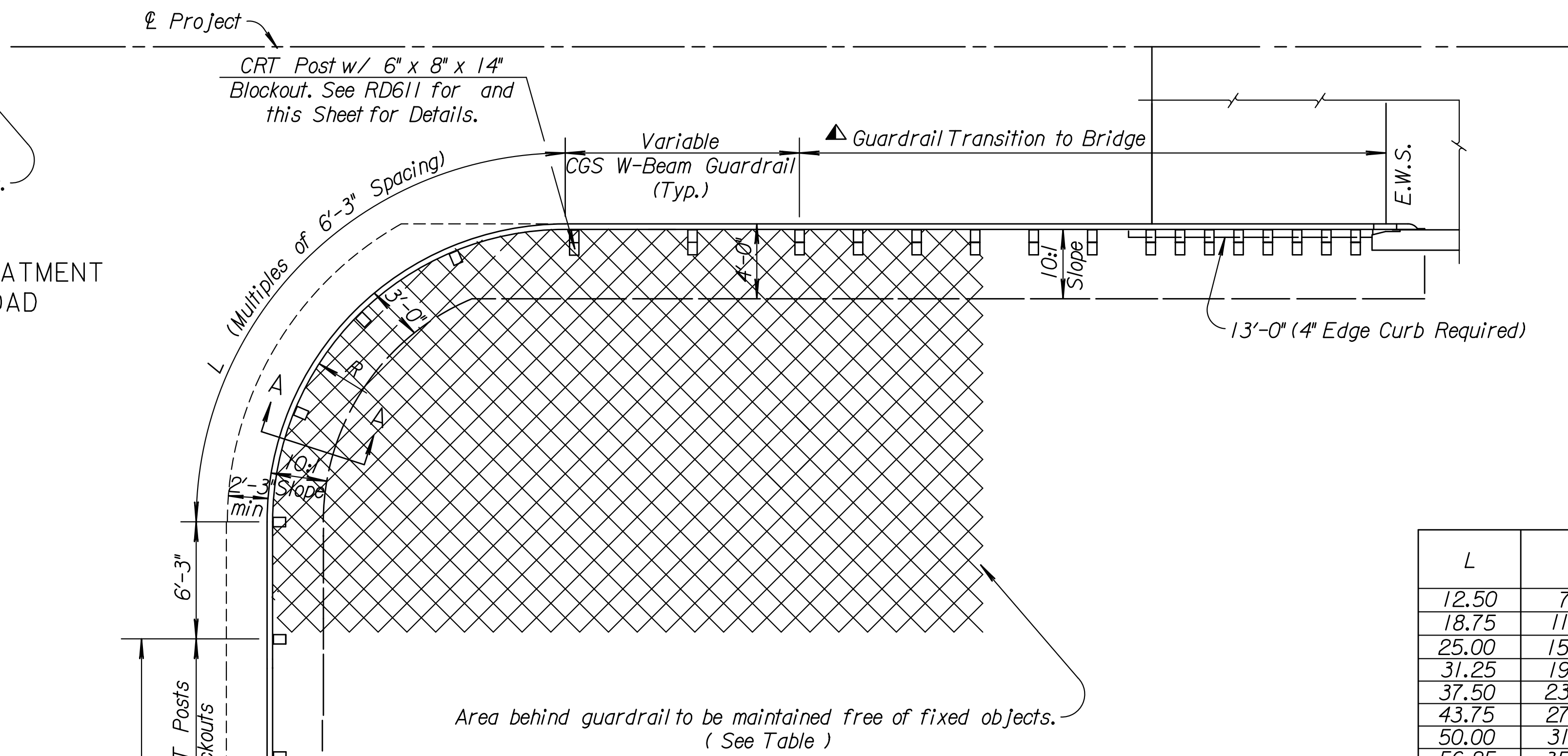
▲ 31'-3" Minimum length for three beam transition. See Standard Drawing RD613.  
 25'-0" Minimum length for W-beam with rubrail transition. See Standard Drawing RD615.



Area behind guardrail to be maintained free of fixed objects. (See Table)

**TERMINAL TREATMENT AT SIDEROAD**

- ⊗ Crashworthy guardrail end terminal shown. See the guardrail layout sheets and appropriate End Terminal Standard Drawing for additional details.
- ∅ Variable length must be in multiple of 6'-3". Length required is based on length of need for approach sideroad traffic. See guardrail layout for details.

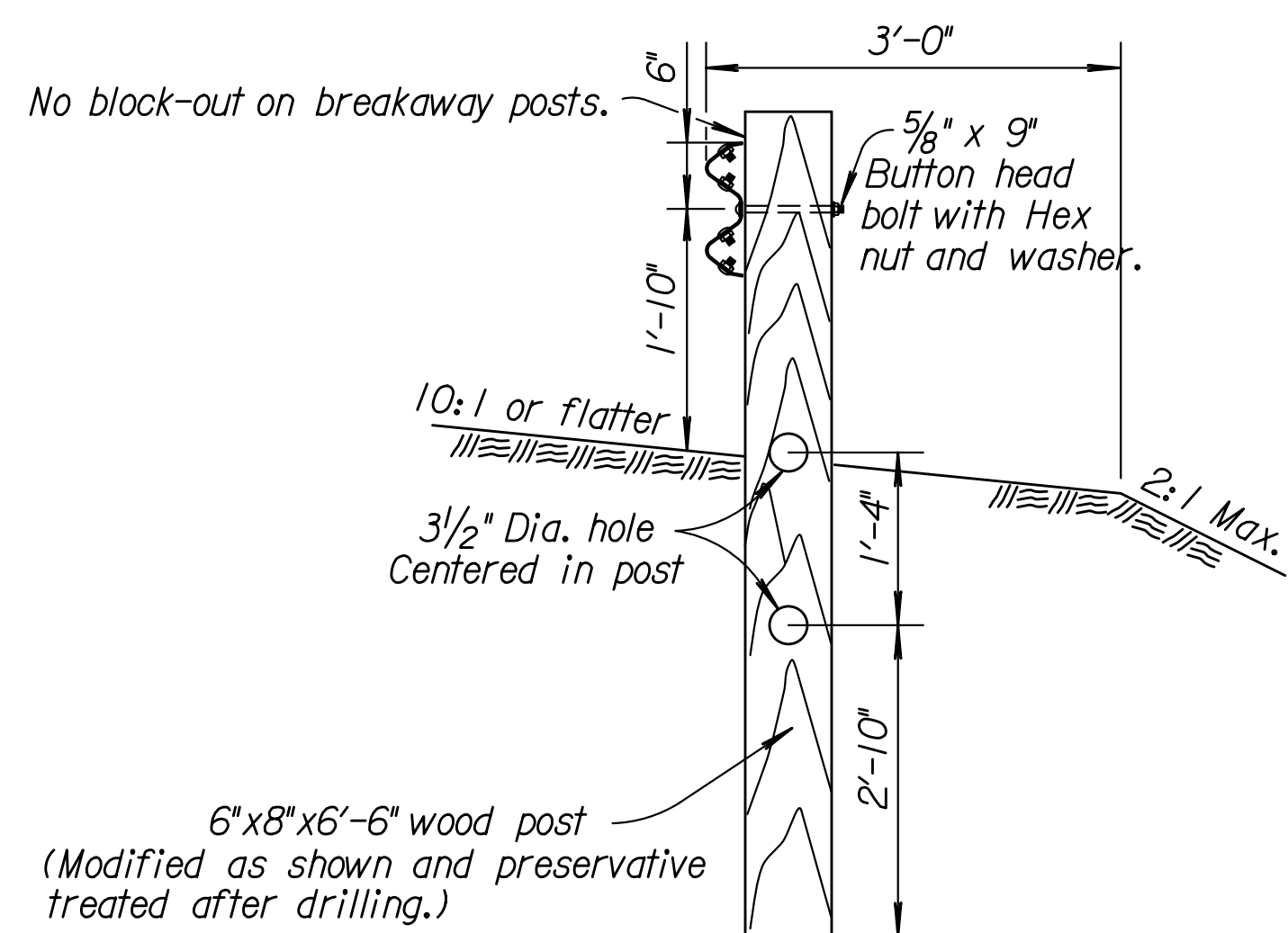


Area behind guardrail to be maintained free of fixed objects. (See Table)

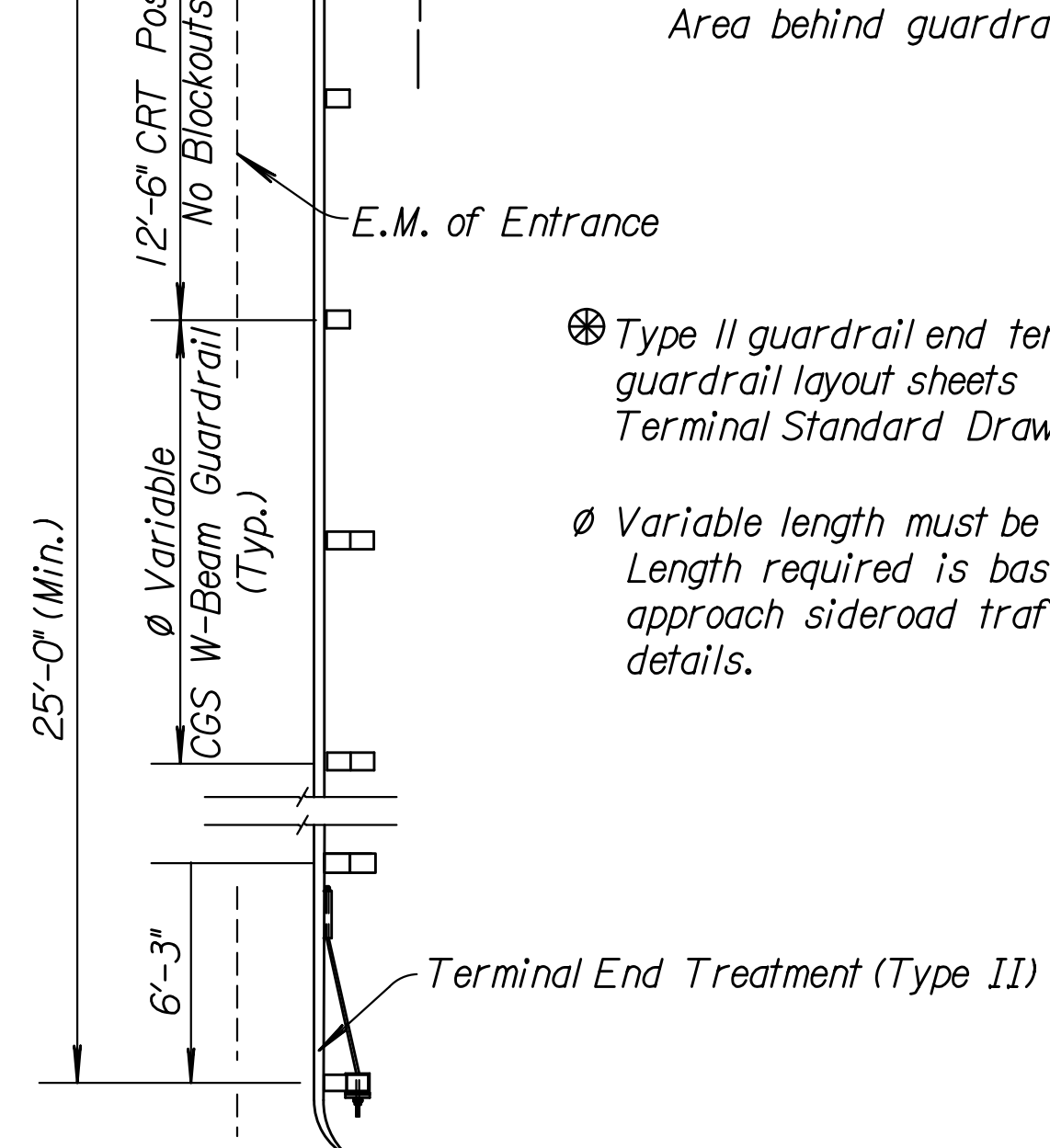
**TERMINAL TREATMENT AT ENTRANCE**

- ⊗ Type II guardrail end terminal shown. See the guardrail layout sheets and appropriate End Terminal Standard Drawing for additional details.
- ∅ Variable length must be in multiple of 6'-3". Length required is based on length of need for approach sideroad traffic. See guardrail layout for details.

L	R	Required Area Free of Fixed Objects
12.50	7.96	25 X 15
18.75	11.94	25 X 15
25.00	15.92	30 X 15
31.25	19.89	30 X 15
37.50	23.87	40 X 20
43.75	27.85	40 X 20
50.00	31.83	40 X 20
56.25	35.81	50 X 20
62.50	39.79	50 X 20



**SECTION A-A (CRT POST)**  
 (Typical through curved portion of guardrail.)



25'-0" (Min.)

NO.	DATE	REVISIONS	BY	APP'D
8	9-24-15	Revised Layouts	T.T.R.	S.W.K.
7	12-14-10	Rev. notes, details & 28' rail height	S.W.K.	J.O.B.
6	7-20-04	Rev. layout, notes, gd.fc. to guardrail	R.J.S.	J.O.B.
5	3-05-01	Add sideroad detail	R.J.S.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

**DETAILS FOR GUARDRAIL AT INTERSECTING ROADWAY**

RD619

DESIGNED	QUANTITIES	APP'D. James O. Brewer	TRACED
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK. King