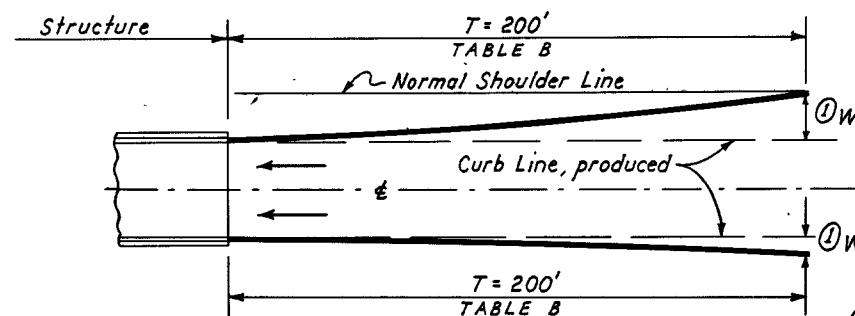
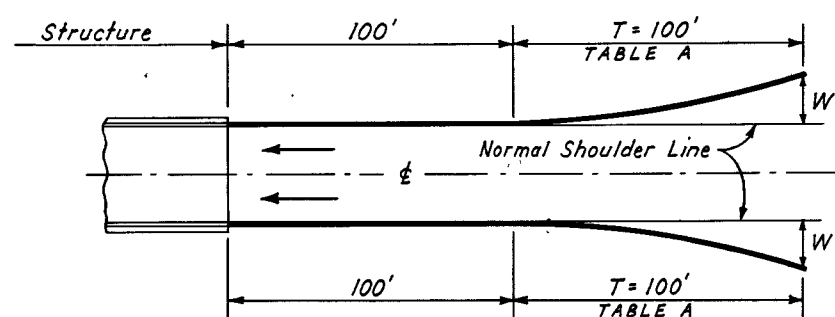
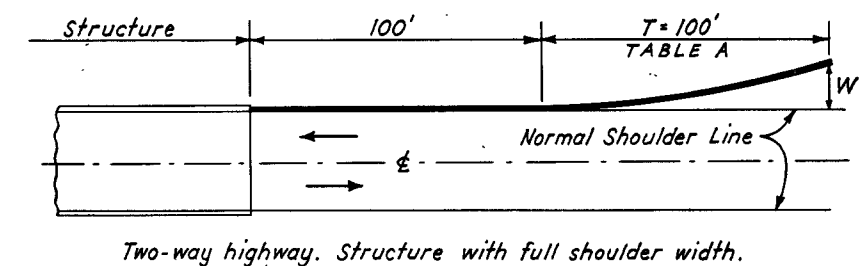
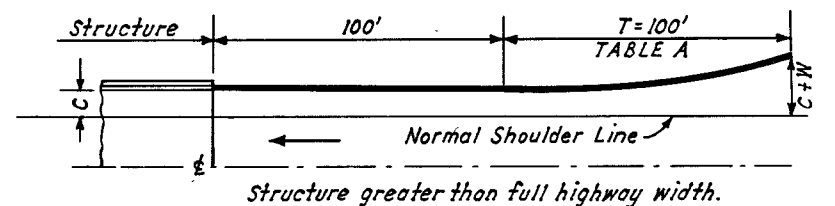
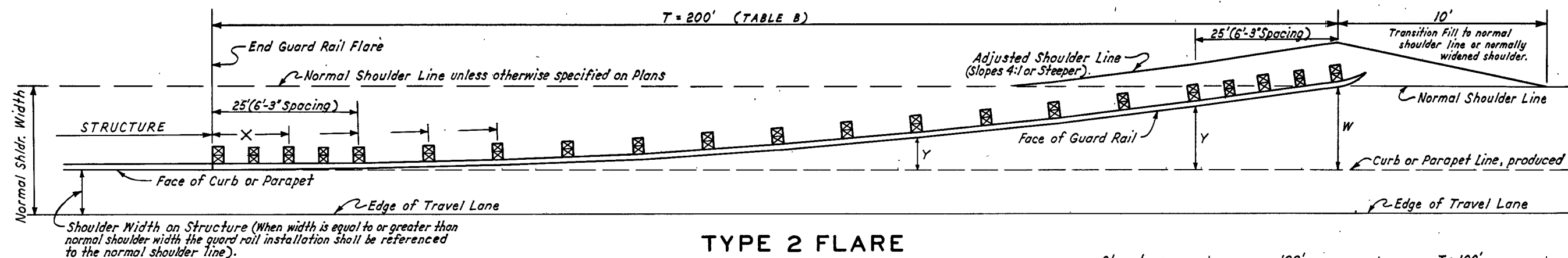
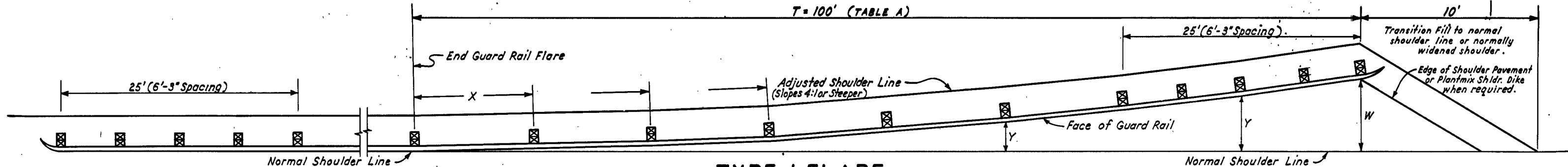


$\textcircled{W} = 4'$ or width to normal shoulder, whichever is greater.

TYPICAL INSTALLATIONS

TABLE A

W in Feet	X in Feet								T
	12 $\frac{1}{2}$	25	37 $\frac{1}{2}$	50	62 $\frac{1}{2}$	75	87 $\frac{1}{2}$	100	
	Y in Feet								
3	.05	.19	.42	.75	1.17	1.69	2.30	3.00	
4	.06	.25	.56	1.00	1.56	2.25	3.06	4.00	
6	.09	.38	.84	1.50	2.34	3.38	4.59	6.00	
8	.12	.50	1.12	2.00	3.12	4.50	6.12	8.00	
10	.16	.63	1.41	2.50	3.91	5.63	7.66	10.00	

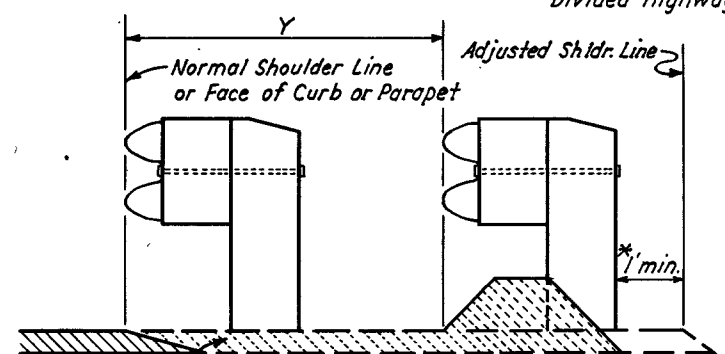
W=3' unless otherwise specified on the plans. When W exceeds 10' use Type 2 Flare with the

TABLE B

W in Feet	X in Feet																T
	12 $\frac{1}{2}$	25	37 $\frac{1}{2}$	50	62 $\frac{1}{2}$	75	87 $\frac{1}{2}$	100	112 $\frac{1}{2}$	125	137 $\frac{1}{2}$	150	162 $\frac{1}{2}$	175	187 $\frac{1}{2}$	200	
	Y in Feet																
2	.01	.03	.07	.13	.20	.28	.38	.50	.63	.78	.95	1.13	1.32	1.53	1.76	2.00	
3	.01	.05	.11	.19	.29	.42	.57	.75	.95	1.17	1.42	1.69	1.98	2.30	2.64	3.00	
4	.02	.06	.14	.25	.39	.56	.77	1.00	1.27	1.56	1.89	2.25	2.64	3.06	3.52	4.00	
6	.02	.09	.21	.38	.59	.84	1.15	1.50	1.90	2.34	2.84	3.38	3.96	4.59	5.27	6.00	
8	.03	.12	.28	.50	.78	1.12	1.53	2.00	2.53	3.12	3.78	4.50	5.28	6.12	7.03	8.00	
10	.04	.16	.35	.62	.98	1.41	1.91	2.50	3.16	3.91	4.73	5.62	6.60	7.66	8.79	10.00	

Where: Y = Offset distance from shoulder line or face of curb to face of guard rail.
W = Offset distance at the beginning of guard rail flare.
X = Distance from end of guard rail flare.
Standard guard rail lengths to be used.
T = Total length of guard rail flare.

$$Y = W \frac{X^2}{T^2}$$



59335

STATE OF NEVADA
DEPARTMENT OF HIGHWAYS

10733834 STANDARD 161
GUARD RAIL INSTALLATION

APPROVED: 6-14-65 *Orin W. Walker*