

APPENDIX E

Exercise 12

p. 12-5

p. 12-8 - 12-11

p. 12-12 - 12-17

Exercise 12 p 12-5:

Transition Length, L:

$L = W \times S$ (for $S \geq 45$ mph)

$S = 60$

$W = 24 - 6 = 18$

$L = 18 \times 60 = 1080$

1100' is used

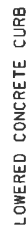


☒ MINOR REVISION -- FHWA
APPROVAL NOT REQUIRED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD VERTICAL
(NONMOUNTABLE)
CONCRETE CURBS AND
CONCRETE CURBS AND
GUTTERS

10-25-91
RP-NMC-10



6" DETACHED CONCRETE CURBS

6" CONCRETE COMBINED CURB AND GUTTER

6" CONCRETE COMBINED CURB AND GUTTER TABLE				
TYPE	TOTAL WIDTH (W) IN INCHES	WIDTH OF GUTTER (WG) IN INCHES	VERTICAL DROP (T) IN INCHES	VERTICAL DEPTH (V) OF GUTTER AT FLOW LINE
6-30	30	23½	2	1 - 2.53"
6-36	36	29½	7½	1 - 1.91"
6-42	42	35½	5	2 - 2.29"

QUANTITIES FOR DETACHED CURB		
HEIGHT OF CURB	CUBIC YARD PER LINEAR FOOT	
	TYPE "A"	TYPE "B"
LOWEST CURB	0.0254	0.0381
CURB	0.02850	0.03973

LOWERED CONCRETE CURB NOTES

① TO BE BUILT AS COMBINED CURB AND CUTTER, DETACHED CURB OR INTEGRAL CURB AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

② FOR DETACHED CURB, OMIT RADIUS AT FLOW LINE.

③ TO BE USED FOR PROPOSED RAMP OPENINGS.

QUANTITIES FOR COMBINED CURB AND GUTTER									
HEIGHT OF CURB	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT
LOWERED CURB	6	30	0.05711	9	30	0.06463	10	30	0.07254
	8	36	0.07295	9	42	0.08011	10	42	0.08934
	10	42	0.08621	9	48	0.10371	10	48	0.11791
6"	6	30	0.06402	9	30	0.07181	10	30	0.07953
	8	36	0.08760	9	36	0.09706	10	36	0.10558
	10	42	0.07780	9	42	0.10708	10	42	0.11609

GENERAL NOTES

- | | | | | | | | |
|---|--|-----------------|------------------------------|-----------------|--------------------------------|-----------------|--|
| <p>④ FOR SPECIFICATIONS SEE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THESE SPECIFICATIONS REQUIRE THAT THE CURB AND GUTTER SECTION FOR 24" BENT CONCRETE CURBS, GUTTER AND COMBINED CURB AND GUTTER, THE FRONT FACE OF THE CONCRETE CURBS FOR ALL DEGREES OF CURVATURE SHALL CONFORM TO THE CONTOUR OF THE CURVE AND NO CHORD SECTIONS WILL BE PERMITTED.</p> <p>⑤ CONCRETE EXPANSION JOINT MATERIAL IS TO BE W-1 PREMOULDED FIBER IN ACCORDANCE WITH SECTION 905 - JOINT MATERIALS OF THE STANDARD SPECIFICATIONS.</p> <p>⑥ EXPANSION JOINTS ARE TO BE PLACED AS FOLLOWS:</p> <ol style="list-style-type: none"> ① AT TANGENT POINTS OF CIRCULAR CURBS ② BETWEEN CURBS AND ABUTTING RIGID OBJECTS ③ AT OTHER PLACES WHERE STRESSES MAY DEVELOP ④ SO AS TO LINE UP WITH PAVEMENT JOINTS WHERE THE ADJACENT PAVEMENT IS CONCRETE ⑤ MAXIMUM SPACING IS TO BE 100 FEET | <p>⑦ CONTRACTION JOINTS ARE TO BE SPACED AT 15 FEET. THE SPACING OF 10 FEET MAY BE REDUCED FOR CLOSURES, BUT NOT LESS THAN 6 FEET.</p> <p>⑧ EDGES OF JOINTS SHALL BE FINISHED ON ONE-QUARTER INCH RADIUS.</p> <p>⑨ ALL COST OF JOINTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS.</p> <p>⑩ THE UNIT PRICE BID FOR CONCRETE CURBS, CONCRETE CURBS AND GUTTER AND CONCRETE PAVEMENT WILL INCLUDE ANY CIRCULAR CURB SECTION. REQUIRED TO BE BUILT CONFORMING TO SECTIONS SHOWN ON THIS SHEET.</p> <p>⑪ PAYMENT WILL BE AS FOLLOWS:</p> <table border="0"> <tr> <td>ITEM NO. 702-01</td> <td>CONCRETE CURB PER CUBIC YARD</td> </tr> <tr> <td>ITEM NO. 702-09</td> <td>CONCRETE GUTTER PER CUBIC YARD</td> </tr> <tr> <td>ITEM NO. 702-63</td> <td>CONCRETE COMBINED CURB AND GUTTER PER CUBIC YARD</td> </tr> </table> | ITEM NO. 702-01 | CONCRETE CURB PER CUBIC YARD | ITEM NO. 702-09 | CONCRETE GUTTER PER CUBIC YARD | ITEM NO. 702-63 | CONCRETE COMBINED CURB AND GUTTER PER CUBIC YARD |
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LEGEND

- D- VERTICAL DEPTH OF GUTTER
T- VERTICAL DROP IN GUTTER FROM FRONT EDGE
TO FACE OF CURB
W- TOTAL WIDTH OF COMBINED CURB AND GUTTER
WC- WIDTH OF GUTTER

REV. 11-3-74, MODIFIED
PAY LENGTH FOR TYPE 38
END TERMINAL.

GATING SECTION

EARTH PAD
SEE S-GRT-2P

3/4" DIA. CABLE X 6'-6" W/
SWAGE FITTINGS

GROUND STRUT

NO BLOCKOUT

GUARDRAIL EXIT SLOT AWAY
FROM TRAFFIC

TRAFFIC

1,000' ** GUARDRAIL
EXTRUDER/IMPACT HEAD

0.875'

0.750'

SEE NOTE (E)

0.625'

0.500'

0.375'

0.250'

0.125'

3'-1/4"

6'-3"

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STANDARD LINE POSTS
ITEM NO. 705-02, 02

0.125'

0.250'

0.375'

0.500'

0.625'

0.750'

0.875'

1,000'

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