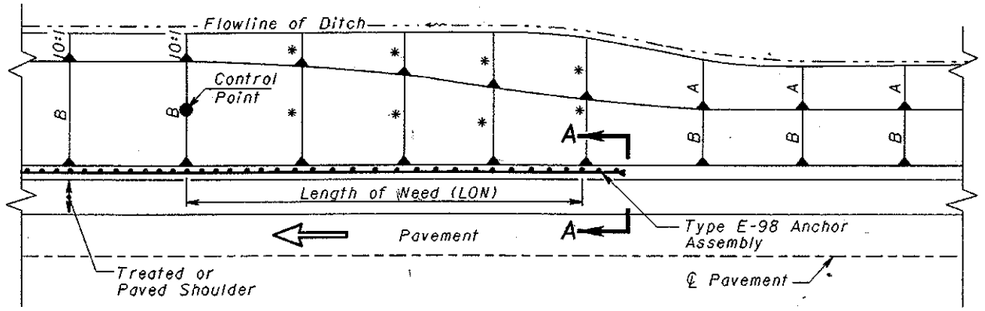
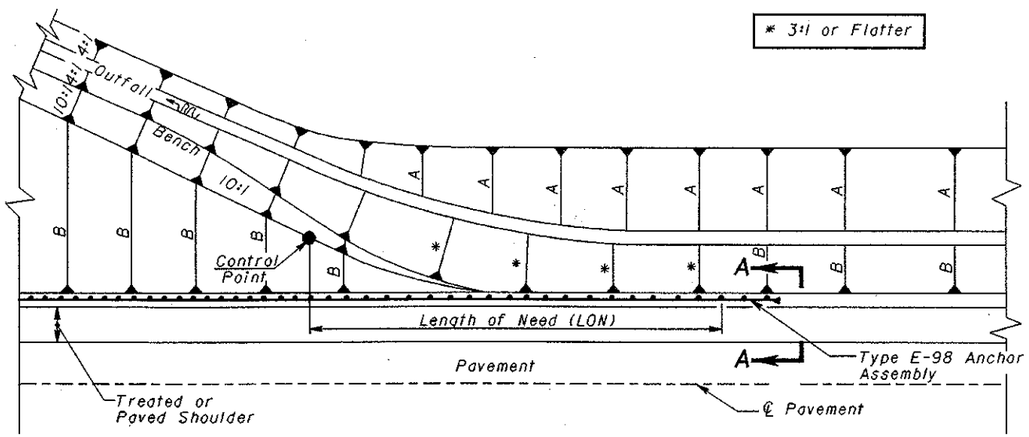


FILL TO FILL



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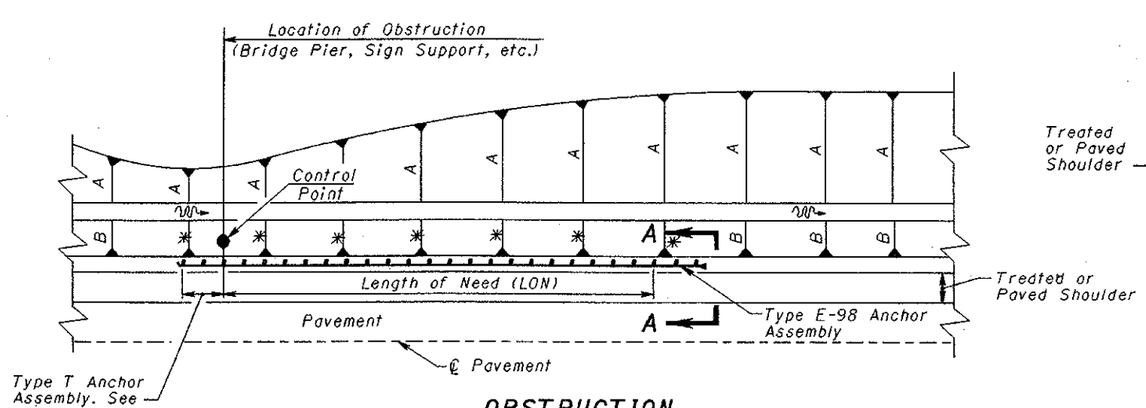
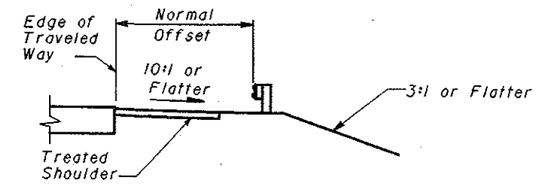


OBSTRUCTION



SECTION A-A

NOTES

APPLICATION: Utilitize details shown here only where approach foreslopes are steeper than 6:1, but not steeper than 3:1.

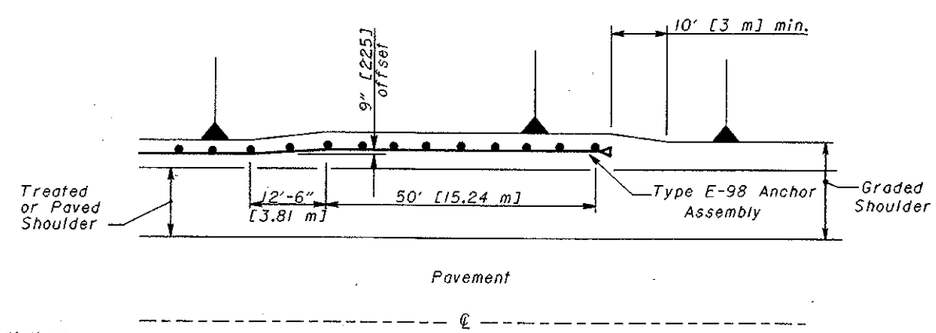
SLOPES: Slopes designated by * shall be 3:1 or flatter. Slopes labeled "A" and "B" shall be constructed as specified in the plans.

"LON" DISTANCE: The Length of Need, LON, represents the distance from the control point to the beginning of the end treatment. The control point shown designates the extent of the hazard being shielded and is shown for design use only. See **Location & Design Manual, Volume I,** Section 602.

GUARDRAIL END TERMINALS: Terminals utilized for the situations shown here shall be Type E-98 Anchor Assemblies unless otherwise specified in the plans.

OBSTRUCTION INSTALLATION: Use this installation for one-directional roadways only.

OFFSET DESIGN: The design shown may be specified on the plans where it is deemed detrimental to lose effective shoulder width due to the dimensions of the Type E-98 Anchor Assembly. The Type E-98 which represents the final 50' [15.24 m] of guardrail is to be offset an additional 9" [225] from the normal guardrail offset by tapering within the 12'-6" [3.81 m] shown below. The graded shoulder width shall be increased 9" [225] and tapered back to the normal width to 10' [3 m] as shown.



OFFSET DESIGN
(Plan View)

THIS DRAWING REPLACES GR-5.3 DATED 4-18-03.

OHIO DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN ENGINEER
1-16-04
DATE

STDS. ENGR.
D. Focke

All metric dimensions in brackets [ ] are in millimeters unless otherwise noted.

ROADWAY ENGINEERING SERVICES

STANDARD ROADWAY CONSTRUCTION DRAWING
INTRODUCTION OF GUARDRAIL RUNS
Foreslope steeper than 6:1

NUMBER
GR-5.3

1/1