

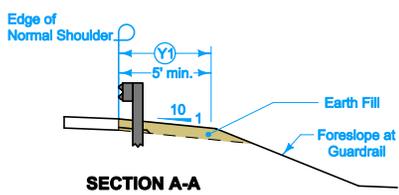
PLAN

Construct earth fill in conformance with requirements for construction of embankments.

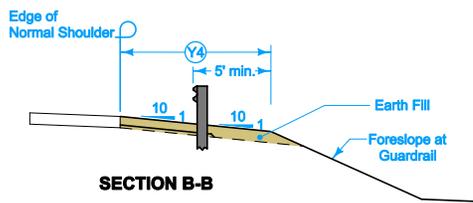
Construct paved shoulder in front of guardrail as shown on Typical 7156.

Guardrail may or may not be attached to face of obstacle.

- (X) Measured from Location Station.
- (Y) Distance from edge of normal shoulder to toe of 10:1 slope



SECTION A-A



SECTION B-B

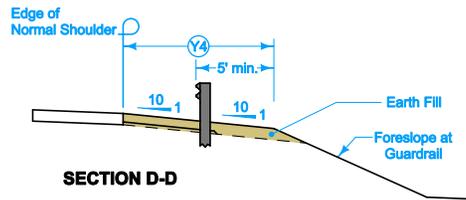
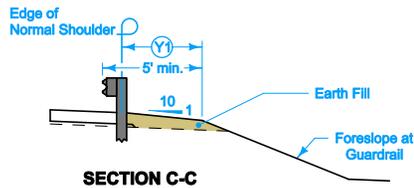
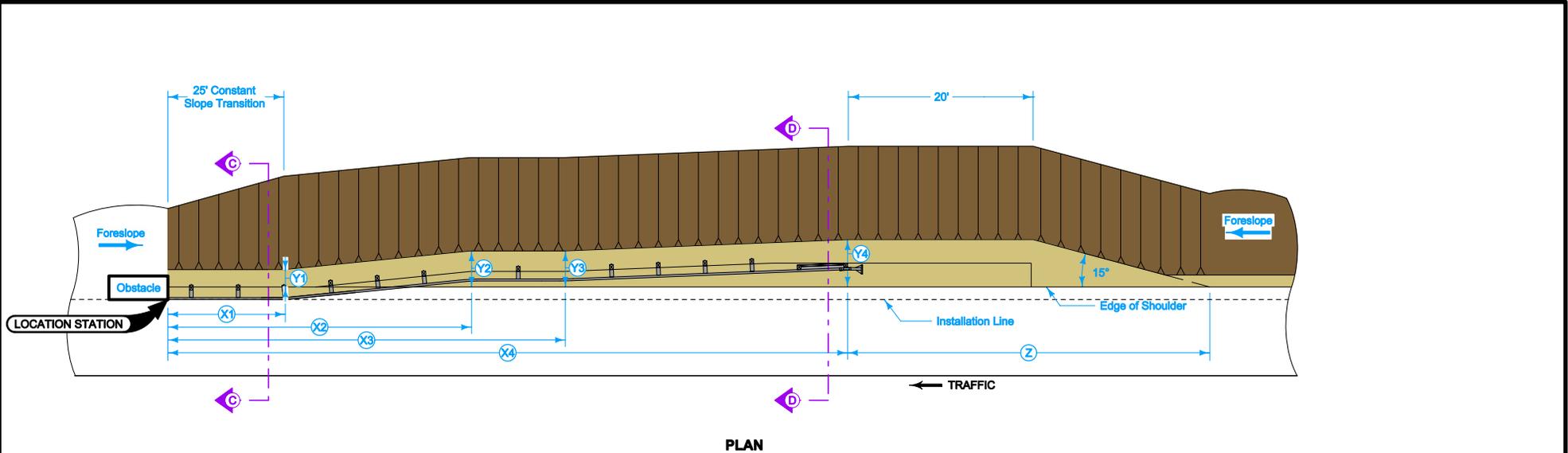
LEGEND	
	Foreslope at Guardrail
	Slope - 10:1

(Y4)	(Z)
feet	feet
5	39
6	43
7	47
8	50
9	54
10	57
11	61
12	65
13	69
14	72
15	76
16	80
17	83
18	87
19	91
20	95

Possible Tabulation:
107-23

GUARDRAIL INSTALLATION LINE AT OR WITHIN 10 FEET OF SHOULDER

 Iowa Department of Transportation	REVISION	
	New	04-19-11
STANDARD ROAD PLAN	EW-301	
SHEET 1 of 5		
REVISIONS: New. Replaces RL-14A.		
 APPROVED BY DESIGN METHODS ENGINEER		
GUARDRAIL GRADING		



- (X) Measured from Location Station.
- (Y) Distance from edge of normal shoulder to toe of 10:1 slope

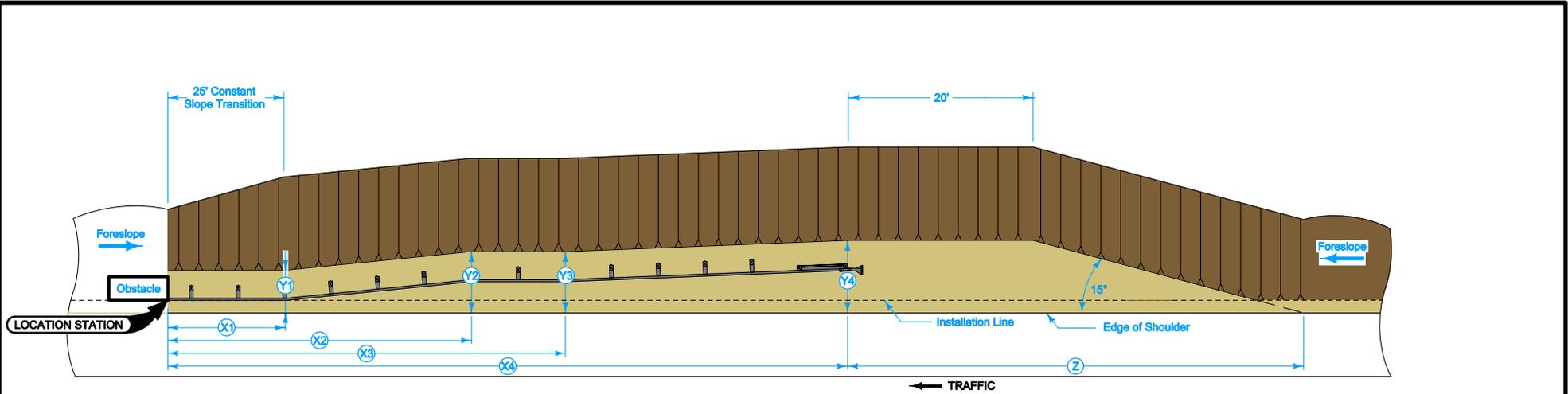
(Y4) feet	(Z) feet
5	39
6	43
7	47
8	50
9	54
10	57
11	61
12	65
13	69
14	72
15	76
16	80
17	83
18	87
19	91
20	95

LEGEND

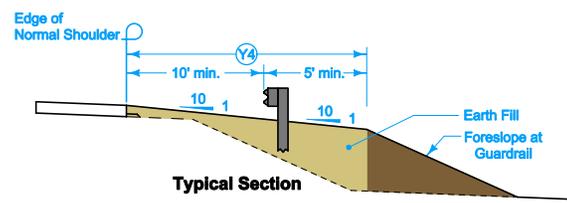
	Foreslope at Guardrail
	Slope - 10:1

GUARDRAIL INSTALLATION LINE WITHIN SHOULDER

 Iowa Department of Transportation	REVISION
	New 04-19-11
STANDARD ROAD PLAN	EW-301
SHEET 2 of 5	
REVISIONS: New. Replaces RL-14A.	
<i>Deanna Maifeld</i> APPROVED BY DESIGN METHODS ENGINEER	
GUARDRAIL GRADING	



PLAN



Typical Section

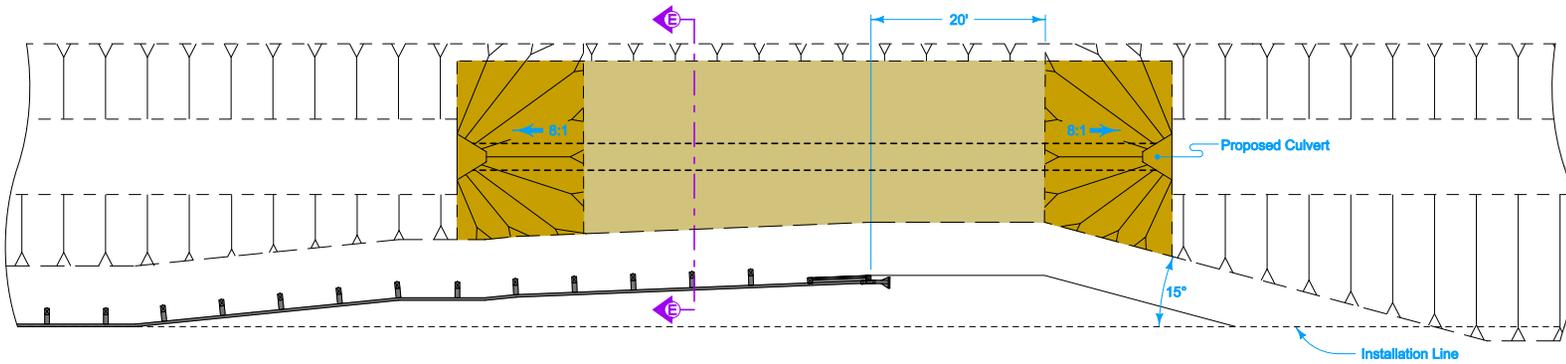
- (X) Measured from Location Station.
- (Y) Distance from edge of normal shoulder to toe of 10:1 slope

(Y4) feet	(Z) feet
5	39
6	43
7	47
8	50
9	54
10	57
11	61
12	65
13	69
14	72
15	76
16	80
17	83
18	87
19	91
20	95

LEGEND	
	Foreslope at Guardrail
	Slope - 10:1

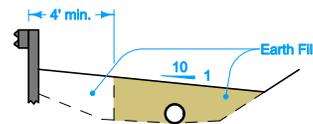
GUARDRAIL INSTALLATION LINE BEYOND 10 FEET FROM SHOULDER

 Iowa Department of Transportation	REVISION
	New 04-19-11
STANDARD ROAD PLAN	EW-301
REVISIONS: New. Replaces RL-14A.	
 <small>APPROVED BY DESIGN METHODS ENGINEER</small>	
GUARDRAIL GRADING	



PLAN

① See sheets 1, 2, or 3 for unshaded areas.



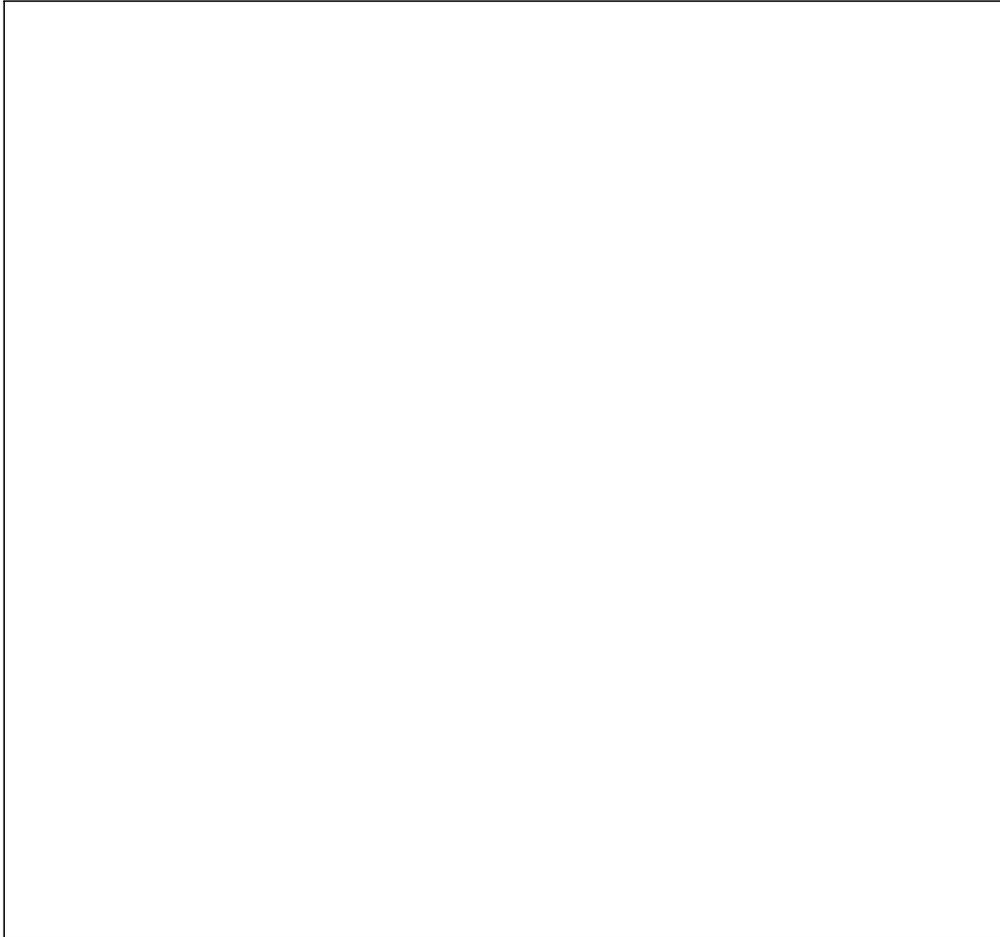
SECTION E-E

LEGEND	
	Slope - 10:1
	Slope - 8:1

FILL OVER PIPE CULVERT ①

	REVISION
	New 04-19-11
STANDARD ROAD PLAN	EW-301
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GUARDRAIL GRADING	

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 Iowa Department of Transportation	REVISION	
	New	04-19-11
STANDARD ROAD PLAN	EW-301	
	SHEET 5 of 5	
REVISIONS: New. Replaces RL-14A.		
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GUARDRAIL GRADING		