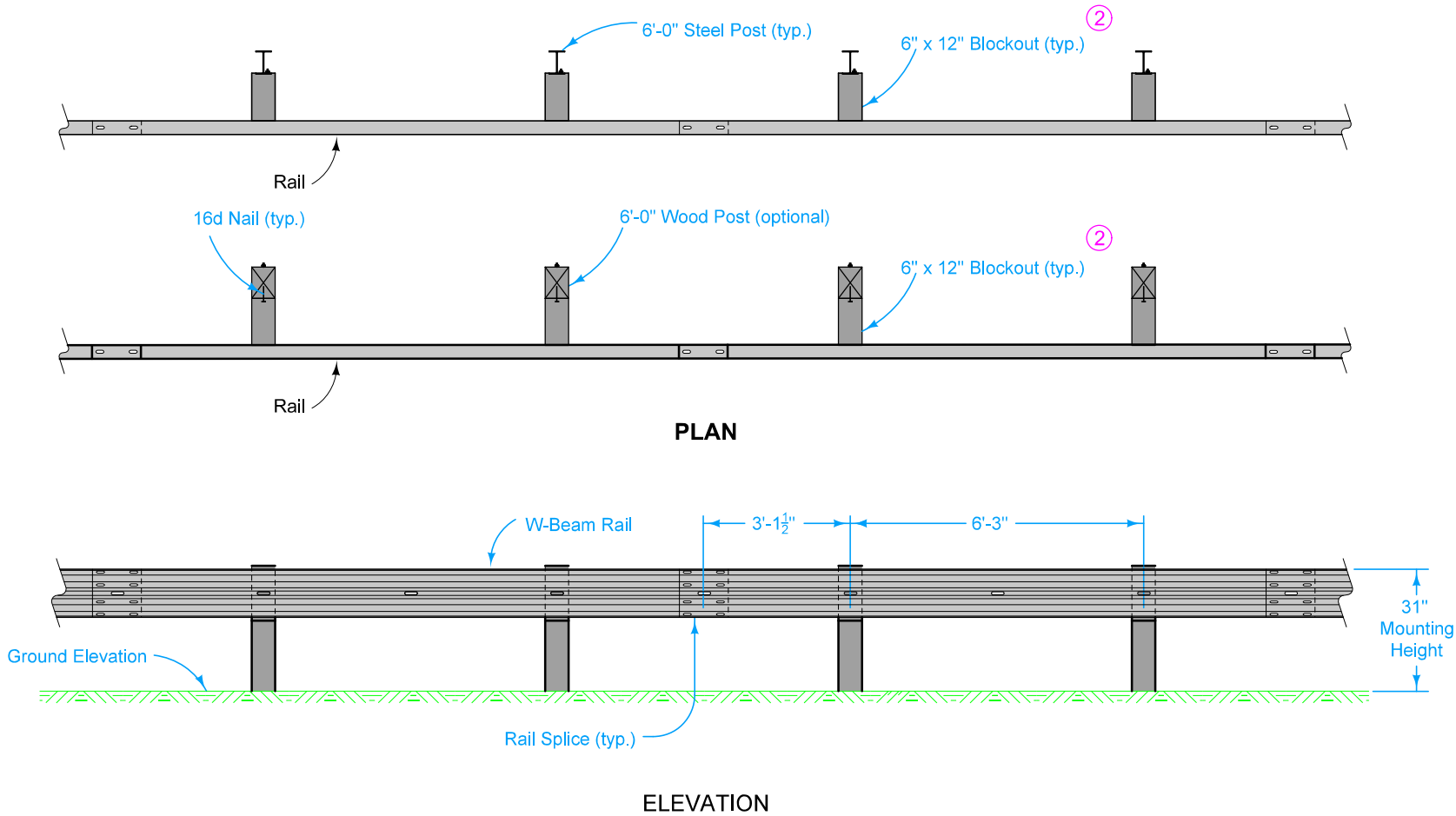
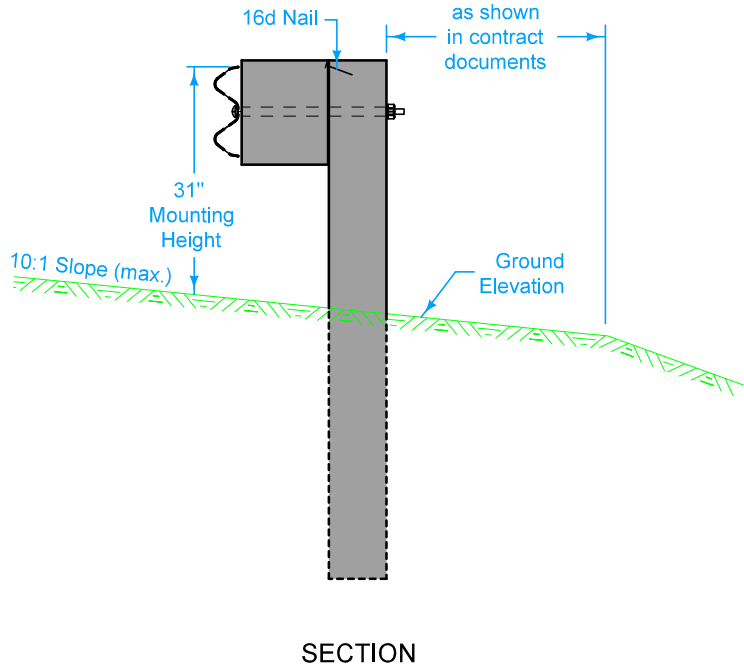
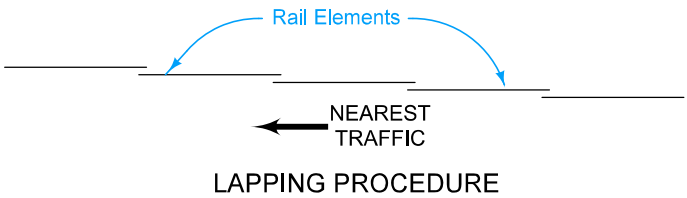


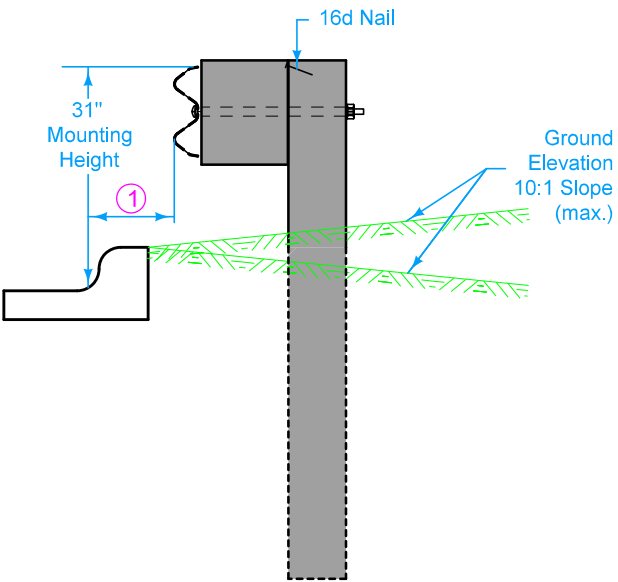


At Bridge End Drains, cut Scour Protection (Transition Mat and Turf Reinforcement Mat) or remove rock as required to place post(s) such that Bridge End Drains abut post(s).

- ① 6" maximum for 6" Standard or 6" Sloped curbs and for non-standard curbs.
- ② Wood or composite only. Steel blockouts will not be allowed.



SECTION



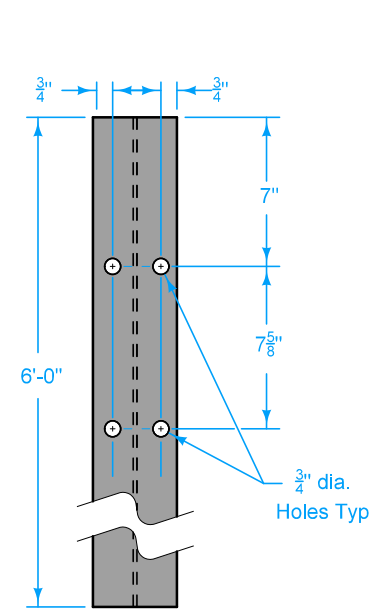
SECTION WITH CURB

W-BEAM INSTALLATION

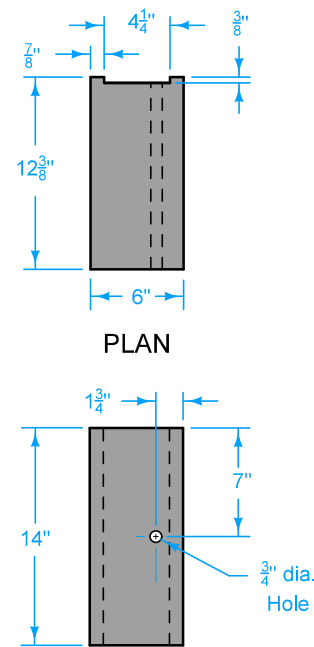
Possible Contract Item:
Steel Beam Guardrail

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STEEL BEAM GUARDRAIL COMPONENTS		

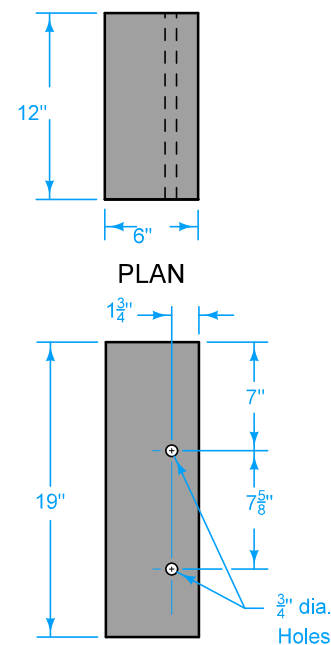
STEEL POST AND BLOCKOUT DETAILS



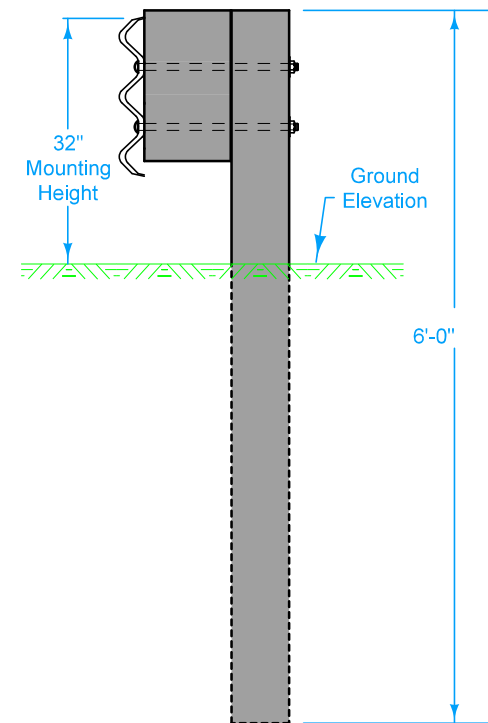
6'-0" STEEL POST
W6x9 or W6x8.5



W-BEAM BLOCKOUT



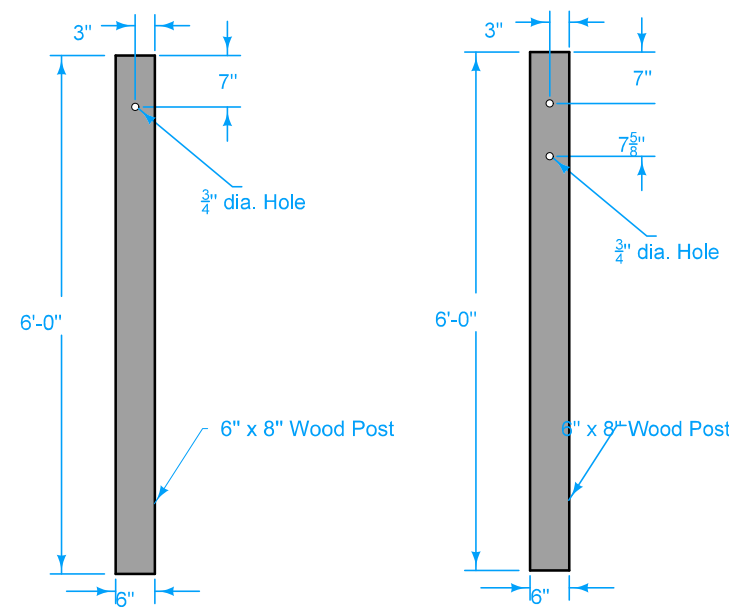
THRIE-BEAM BLOCKOUT



THRIE-BEAM INSTALLATION

- ② Wood or composite only. Steel blockouts will not be allowed.
- ③ Thrie-beam post may be substituted for W-beam post.

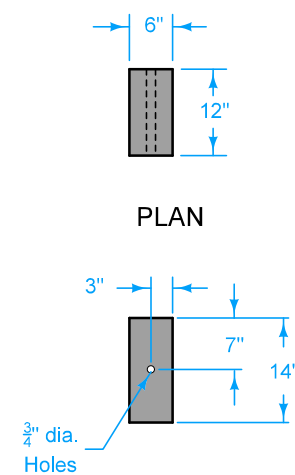
WOOD POST AND BLOCKOUT DETAILS



W-BEAM

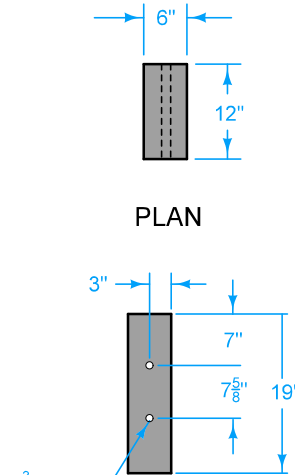
THRIE-BEAM

POSTS



ELEVATION

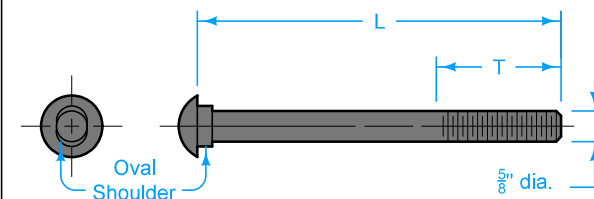
W-BEAM BLOCKOUT



ELEVATION

THRIE-BEAM BLOCKOUT

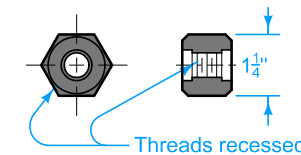
BOLT DETAILS



BOLT

APPLICATION	T	L
Splice Bolt	1 1/16"	1 1/4"
Bolt for Steel Post with 8" Blockout	2 1/2"	10"
Bolt for Steel Post with 12" Blockout	2 1/2"	14"
Bolt for Wood Post with 8" Blockout	2 1/2"	18"
Bolt for Wood Post with 12" Blockout	2 1/2"	22"

T = Min. Thread Length L = Bolt Length



NUT

HARDWARE

IOWA DOT

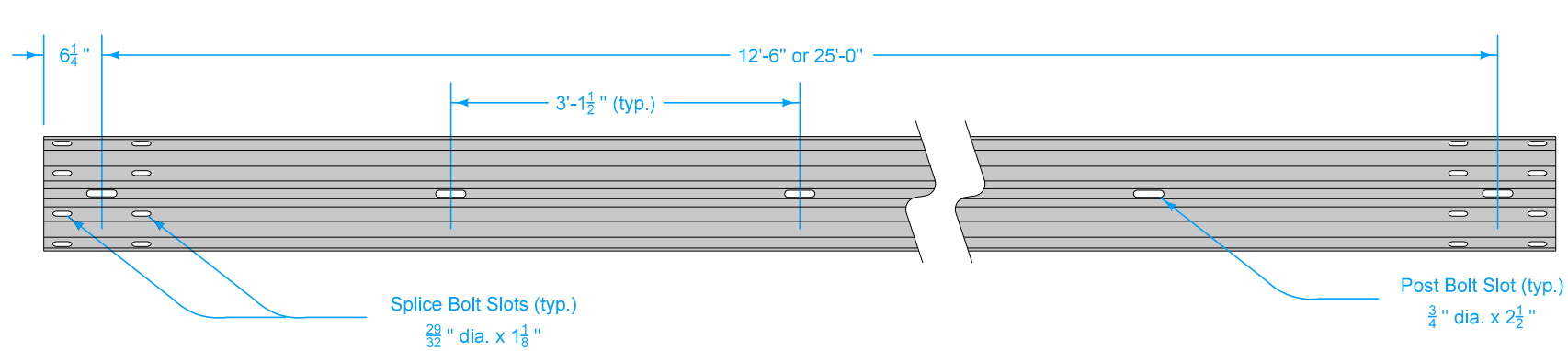
STANDARD ROAD PLAN

REVISIONS: Removed half post spacing.

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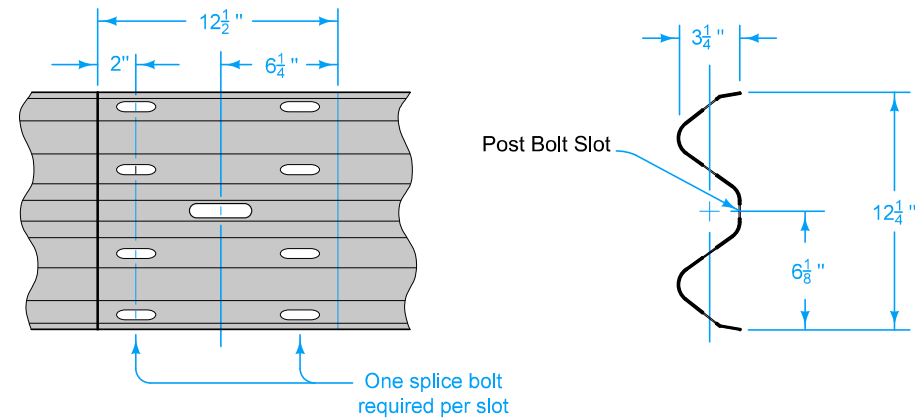
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STEEL BEAM GUARDRAIL COMPONENTS



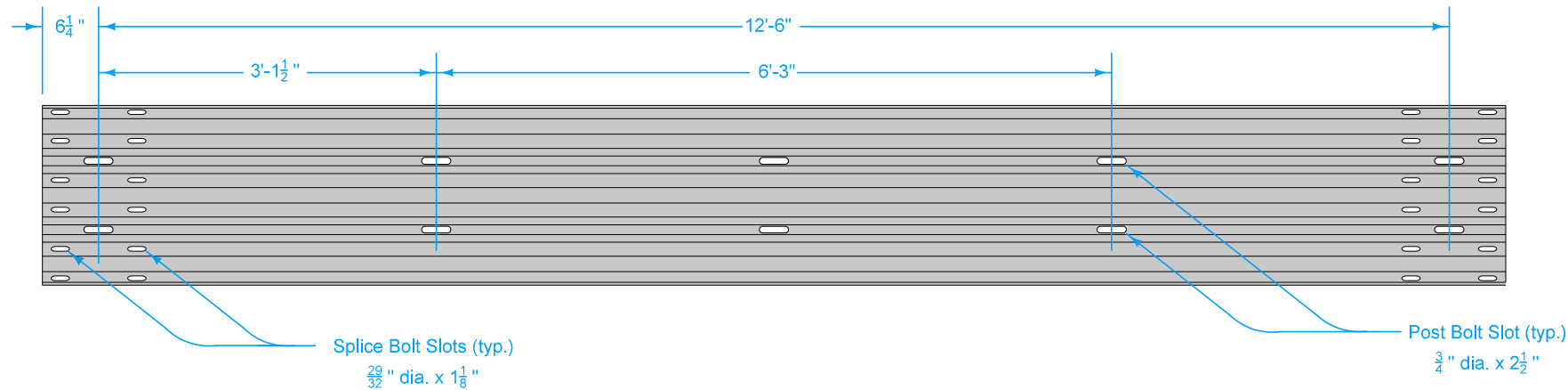
ELEVATION

W-BEAM RAIL



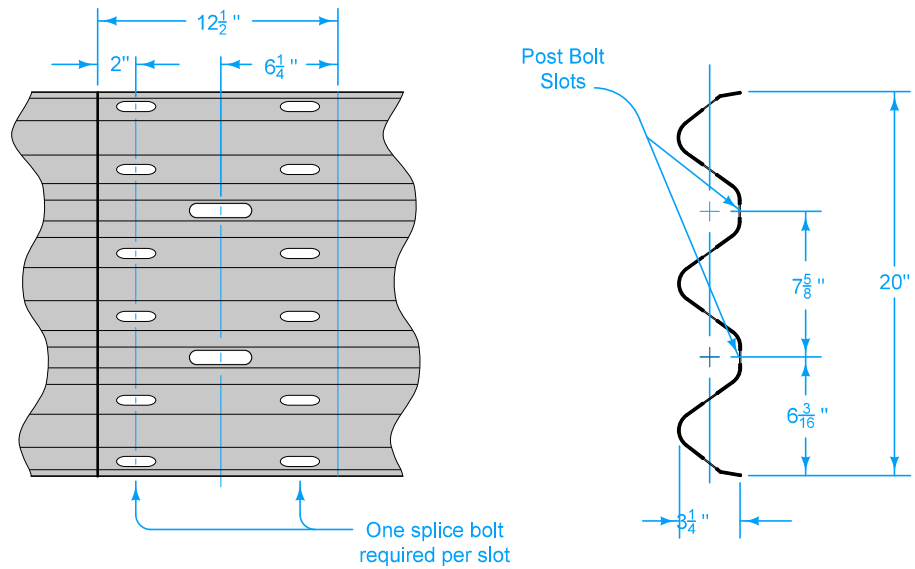
RAIL SPLICE

SECTION



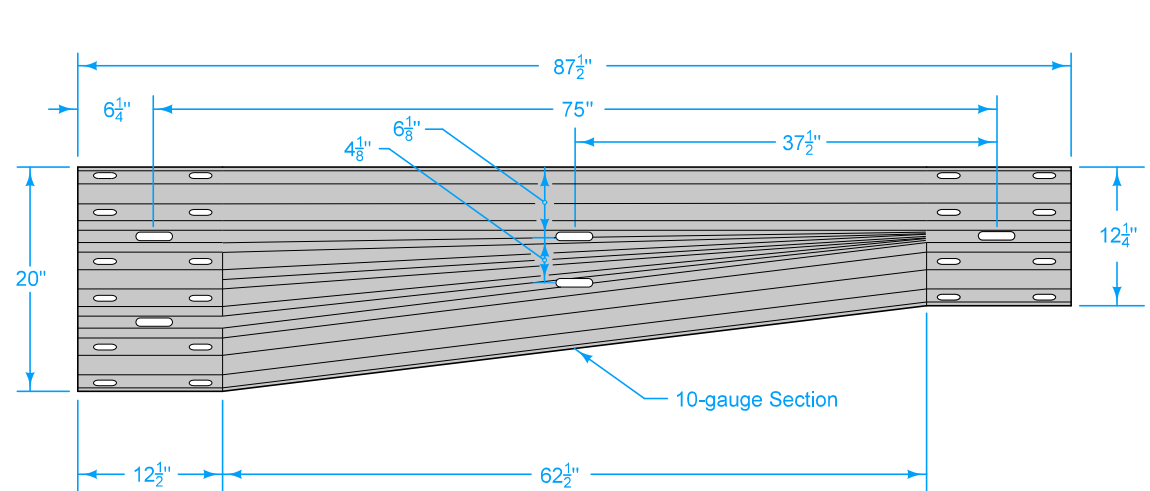
ELEVATION

THRIE-BEAM RAIL

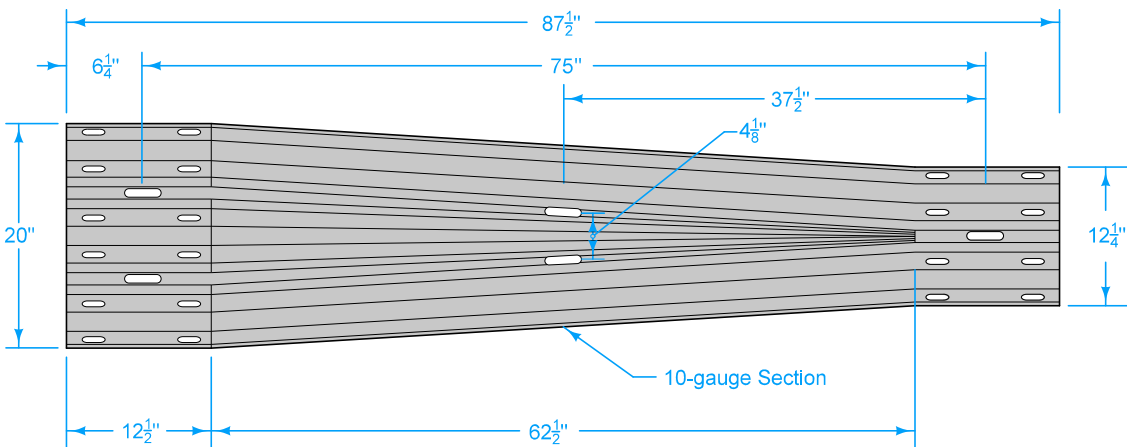


RAIL SPLICE

SECTION

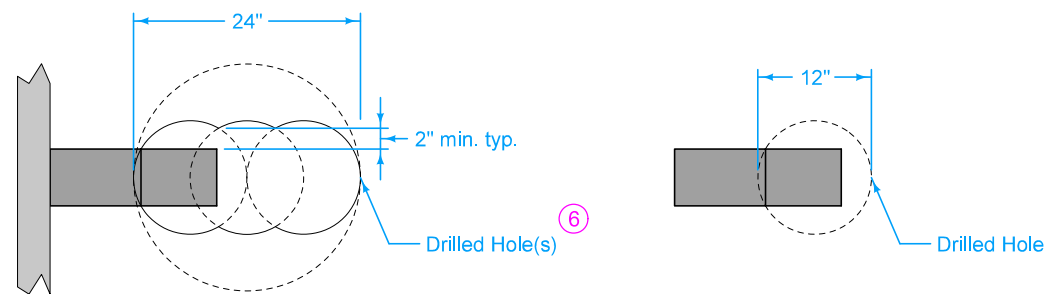
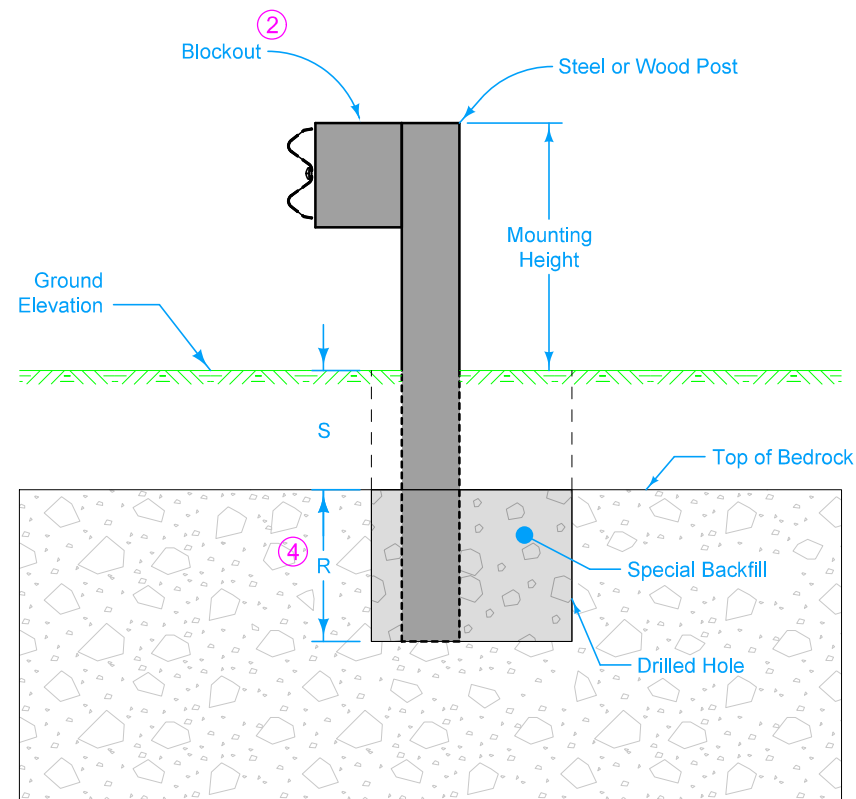


ASYMMETRICAL TRANSITION SECTION



SYMMETRICAL TRANSITION SECTION

IOWA DOT STANDARD ROAD PLAN REVISIONS: Removed half post spacing. <i>Shawn Miller</i> APPROVED BY DESIGN METHODS ENGINEER STEEL BEAM GUARDRAIL COMPONENTS	REVISION	
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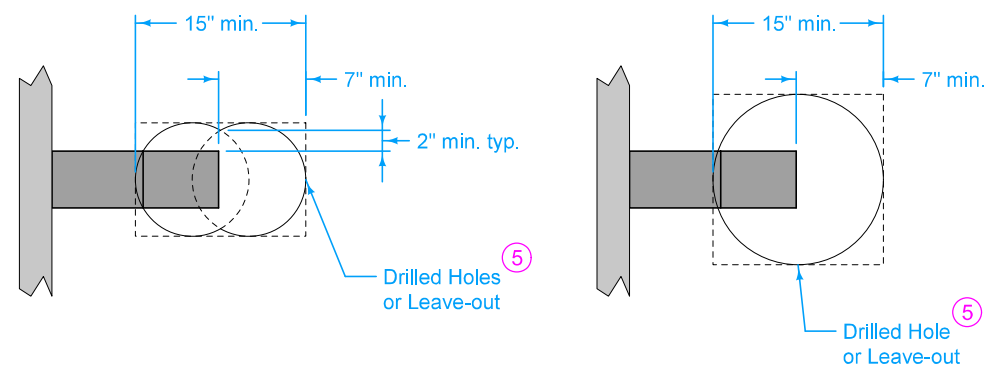
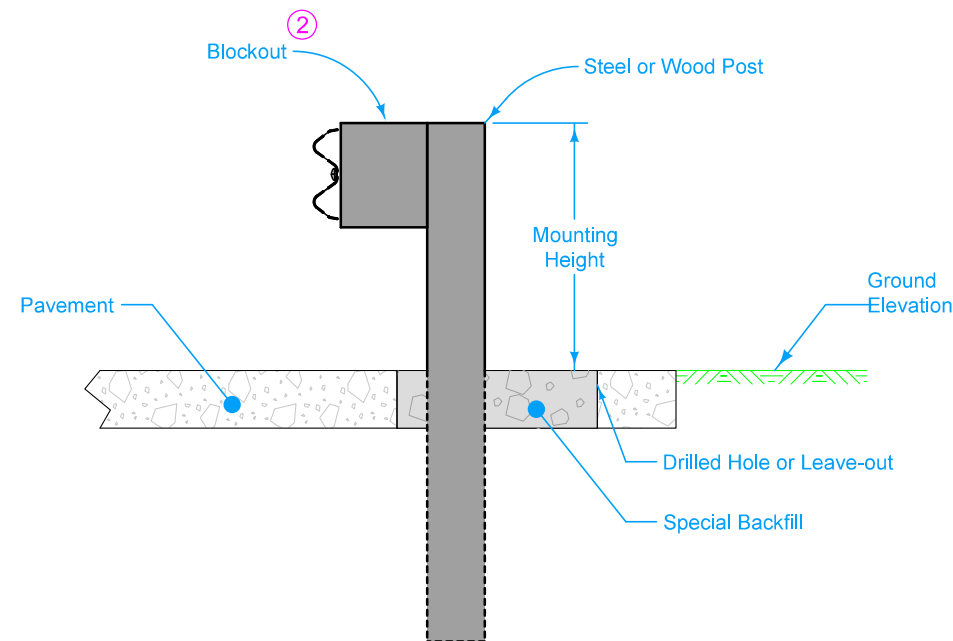


PLAN - CASE A

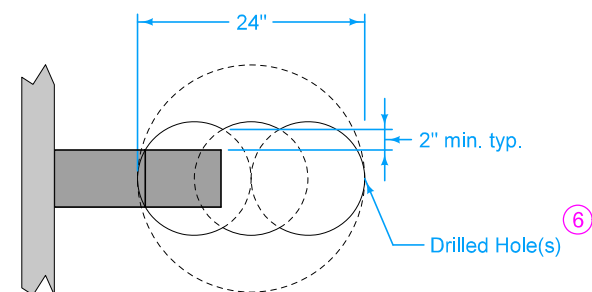
PLAN - CASE B

Post Embedment (4)		
Case	Depth to Bedrock	Minimum Depth to Drill into Bedrock
A	S = 0" to 16"	R = 24"
B	S = 16" to 52"	R = Post Length - Mounting Height - S

POST INSTALLED IN BEDROCK



PLAN - PAVEMENT THICKNESS $\leq 8"$
Either approach is acceptable.



PLAN - PAVEMENT THICKNESS $> 8"$

POST INSTALLED IN PAVEMENT

Installation information applies to both wood and steel posts.

- (2) Wood or composite only. Steel blockouts will not be allowed.
- (4) Post extends to bottom of hole in all cases. Trim top of post as required and treat with preservative according to Section 4161 of the Standard Specifications.
- (5) Use a 12 inch bit with two drills or a 15 inch bit with one drill. If placing post before paving, provide required leave-out area. If placing post after paving, drill or cut required area. Leave-out may be round or square.
- (6) Use a 12 inch bit with three drills or a 24 inch bit with one drill.

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REVISIONS: Removed half post spacing.

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STEEL BEAM GUARDRAIL COMPONENTS