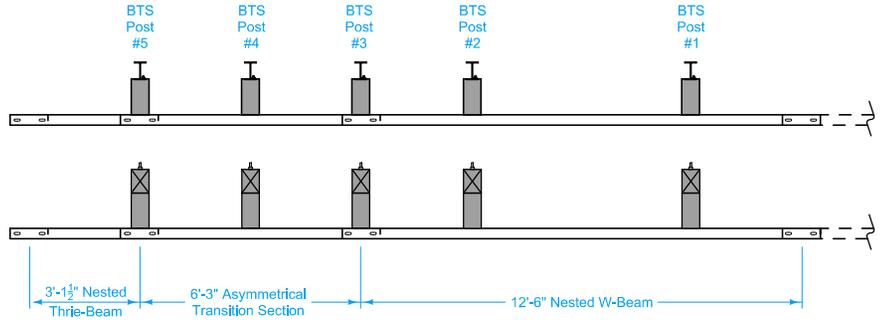
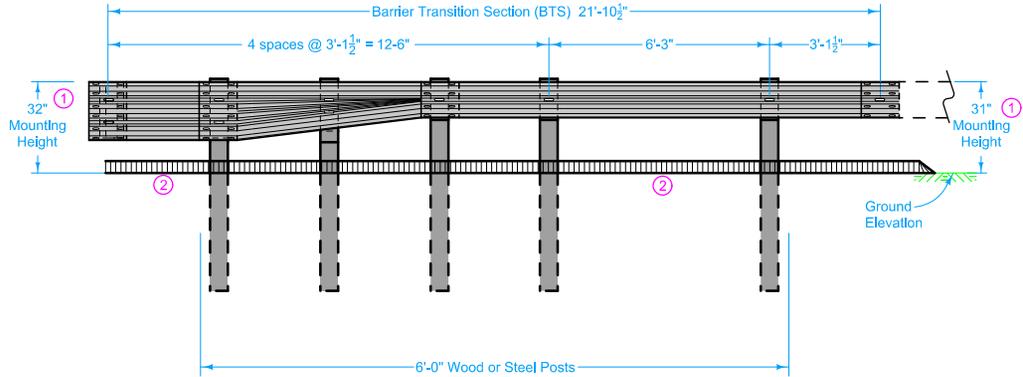


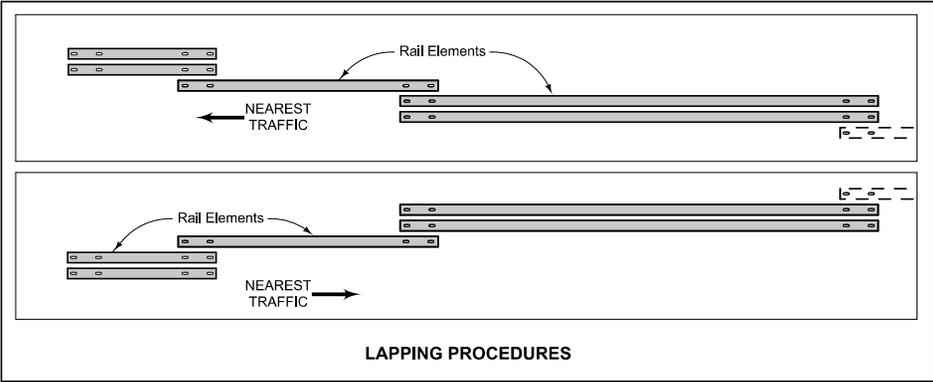
DESIGNER INFO



PLAN



ELEVATION



LAPPING PROCEDURES

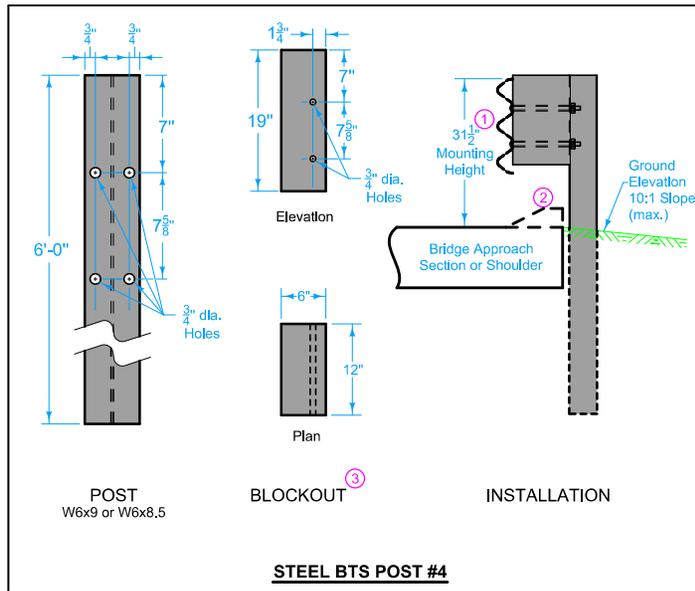
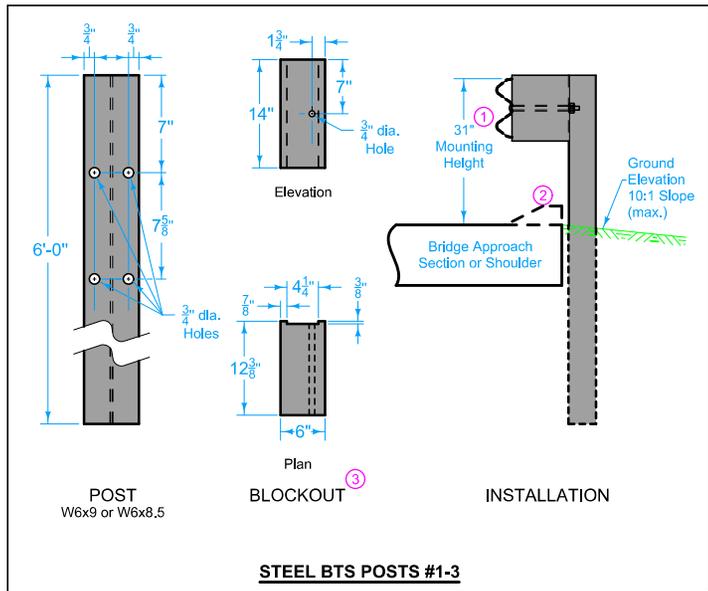
At Bridge End Drains, cut Scour Protection (Transition Mat and Turf Reinforcement Mat) or remove rock as required to place post(s) such that Bridge End Drains abut post(s).

- ① Guardrail mounting height at barrier connection is 32 inches. Transition guardrail mounting height down to 31 inches at BTS Post #3.
- ② Possible 4 inch sloped curb. See project plans.

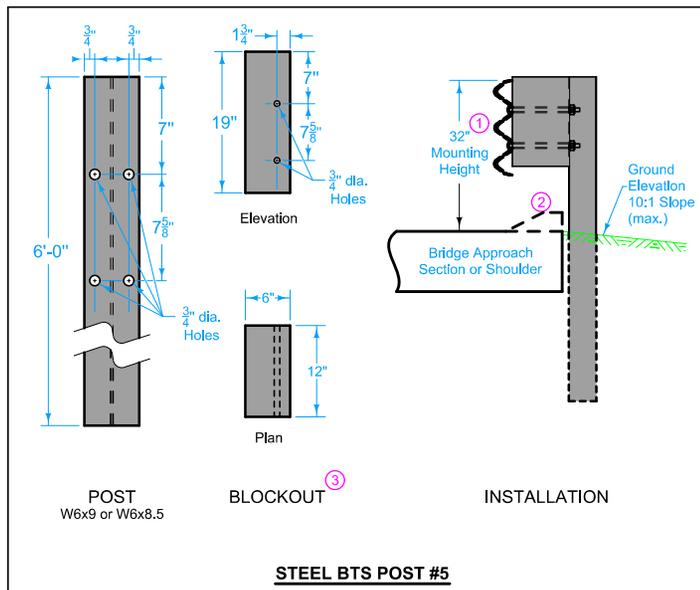
Possible Contract Item:
Steel Beam Guardrail Barrier Transition Section, BA-221

- Materials included in the Contract Item:
- Steel Post Option:
- (5) 6" x 8" x 6'-0" posts
 - (2) 6" x 12" x 19" blockouts
 - (3) 6" x 12" x 14" blockouts
- Wood Post Option:
- (5) 6" x 8" x 6'-0" posts
 - (2) 6" x 12" x 19" blockouts
 - (3) 6" x 12" x 14" blockouts
- (1) Asymmetrical Transition Section
 - (2) 3'-1 1/2" Thrie-Beam rail sections
 - (2) 12'-6" W-Beam rail sections
- Approved bolts, nuts, and washers
Refer to BA-200 for guardrail components

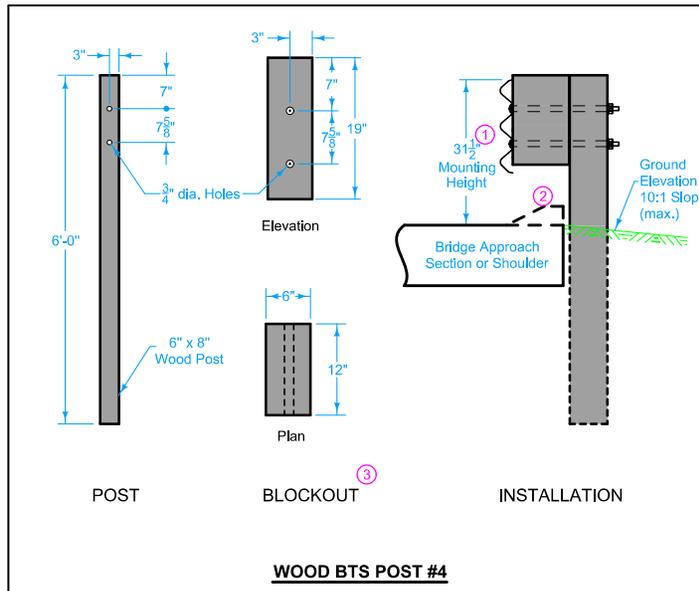
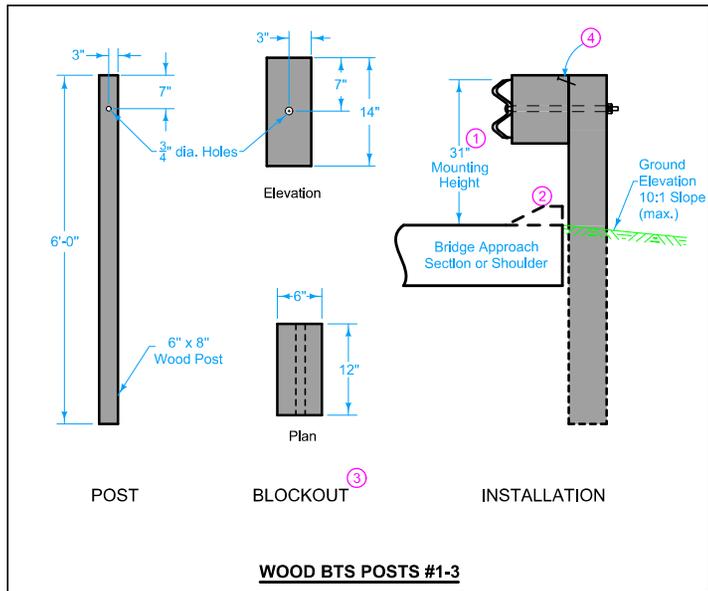
	REVISION
	NEW 10-18-16
STANDARD ROAD PLAN	BA-221
REVISIONS: NEW.	SHEET 1 of 3
APPROVED BY DESIGN METHODS ENGINEER	
STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION (MASH TL-2)	



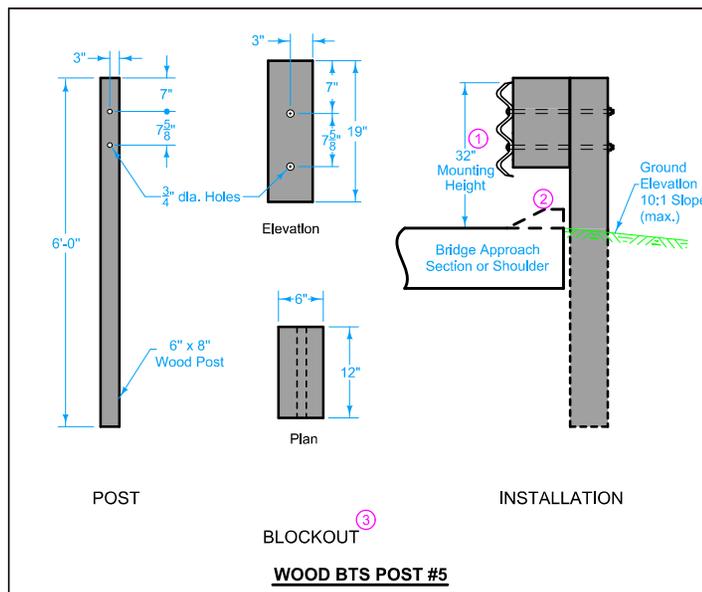
- ① Guardrail mounting height at barrier connection is 32 inches. Transition guardrail mounting height down to 31 inches at BTS Post #3.
- ② Possible 4 inch sloped curb. See project plans.
- ③ Wood or composite only. Steel blockouts will not be allowed.



IOWA DOT	REVISION
	NEW 10-18-16
STANDARD ROAD PLAN	BA-221
REVISIONS: NEW	SHEET 2 of 3
 APPROVED BY DESIGN METHODS ENGINEER	
STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION (MASH TL-2)	



- ① Guardrail mounting height at barrier connection is 32 inches. Transition guardrail mounting height down to 31 inches at BTS Post #3.
- ② Possible 4 inch sloped curb. See project plans.
- ③ Wood or composite only. Steel blockouts will not be allowed.
- ④ 16d nail to prevent blockout rotation.



IOWA DOT	REVISION
	NEW 10-18-16
STANDARD ROAD PLAN	BA-221
REVISIONS: NEW	SHEET 3 of 3
 APPROVED BY DESIGN METHODS ENGINEER	
STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION (MASH TL-2)	