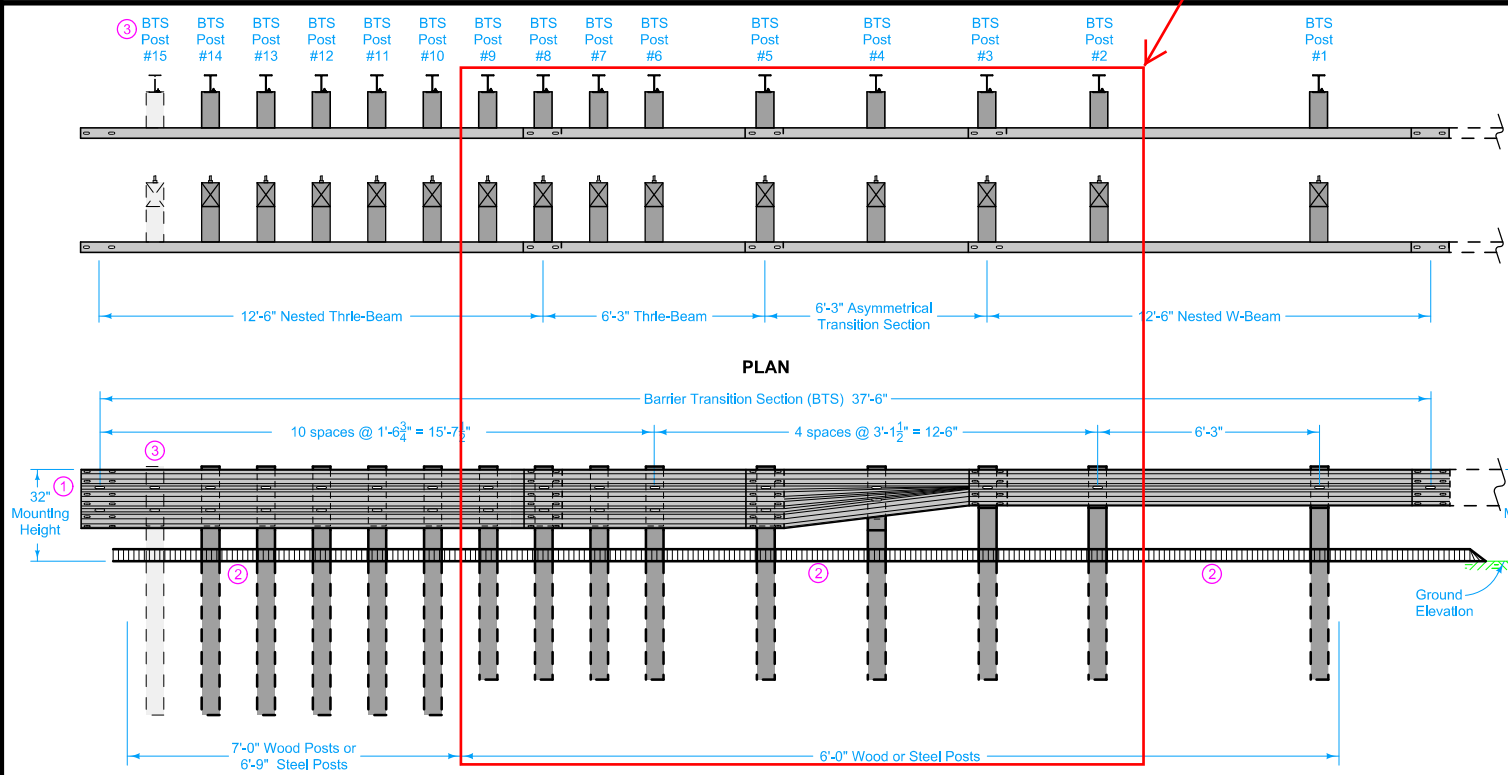
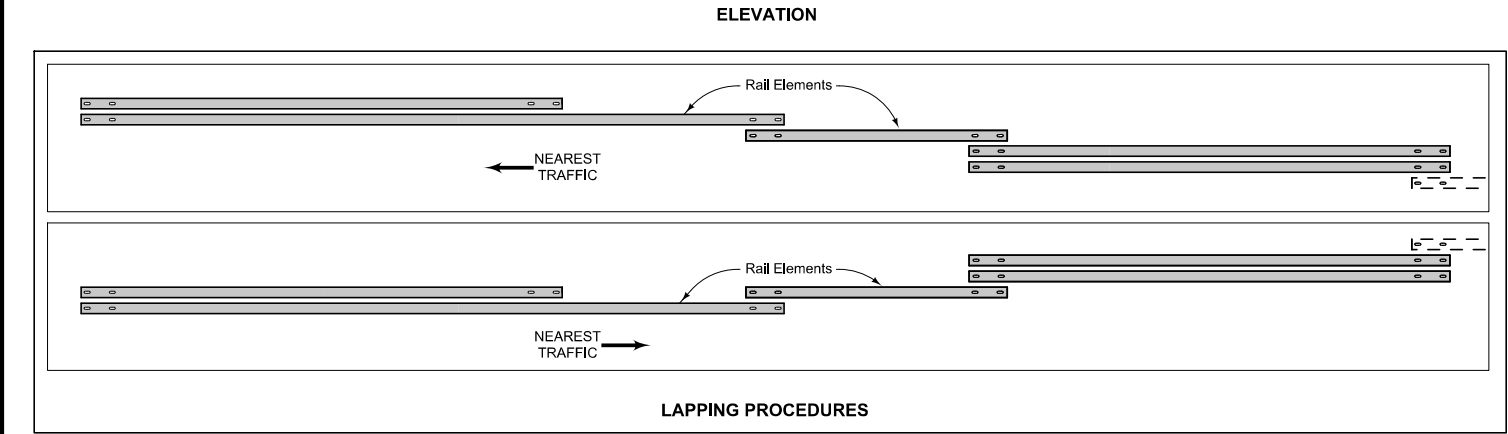


**12" Blockout  
Required**



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).

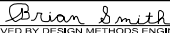
- ① Guardrail mounting height at barrier connection is 32 inches. Transition guardrail mounting height down to 31 inches at BTS Post #3.
- ② Possible 4 inch sloped curb. See project plans.
- ③ Depending on end anchor type, BTS Post #15 may be eliminated or modified. See BA-202.

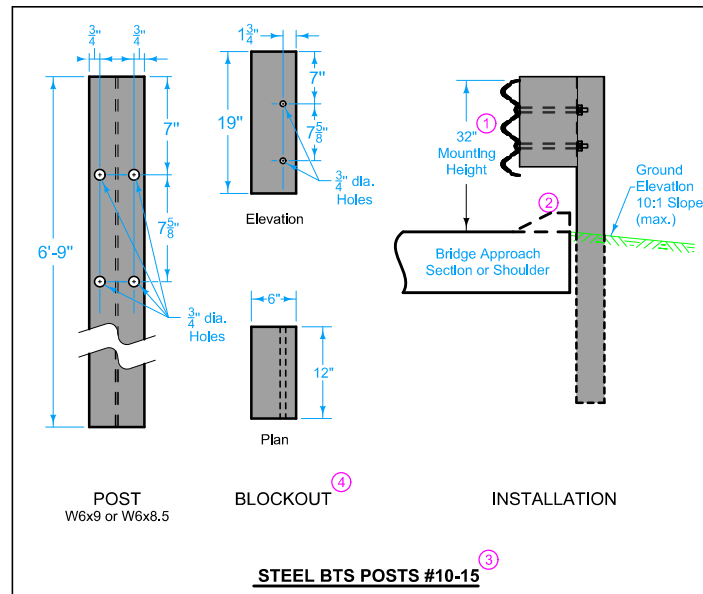
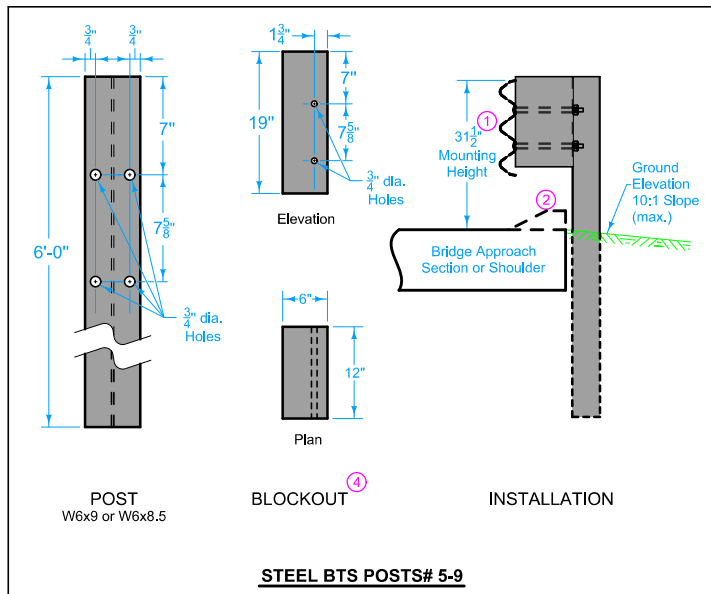
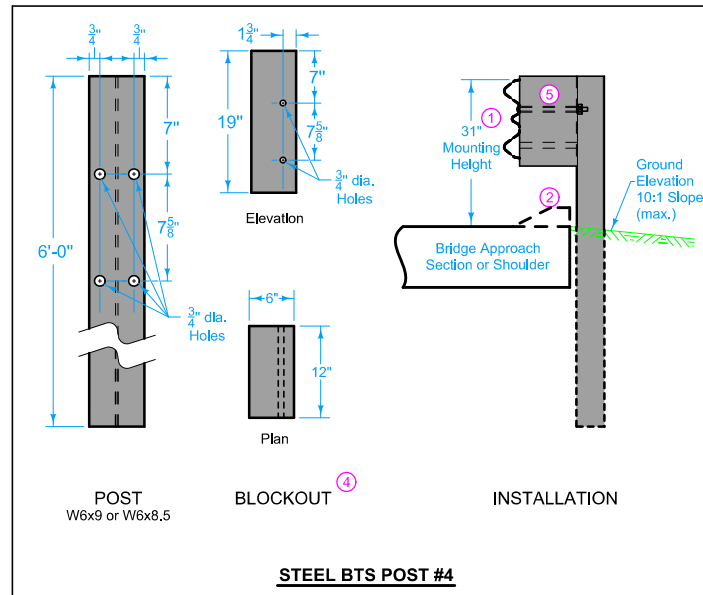
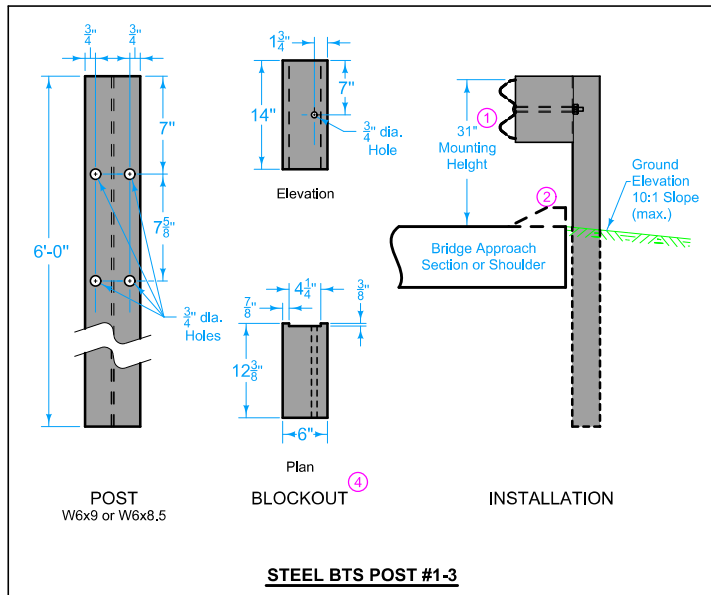


Possible Contract Item:  
Steel Beam Guardrail Barrier Transition Section, BA-201

- Materials included in the Contract Item:
- Steel Post Option:**
- (9) 6" x 8" x 6'-0" posts
  - (6) 6" x 8" x 6'-9" posts
  - (12) 6" x 12" x 19" blockouts
  - (3) 6" x 12" x 14" blockouts
- Wood Post Option:**
- (9) 6" x 8" x 6'-0" posts
  - (6) 6" x 8" x 7'-0" posts
  - (12) 6" x 12" x 19" blockouts
  - (3) 6" x 12" x 14" blockouts
- (1) Asymmetrical Transition Section
  - (2) 12'-6" Thrie-Beam rail sections\*
  - (1) 6'-3" Thrie-Beam rail section\*
  - (2) 12'-6" W-Beam rail sections
- Approved bolts, nuts, and washers  
Refer to BA-200 for guardrail components

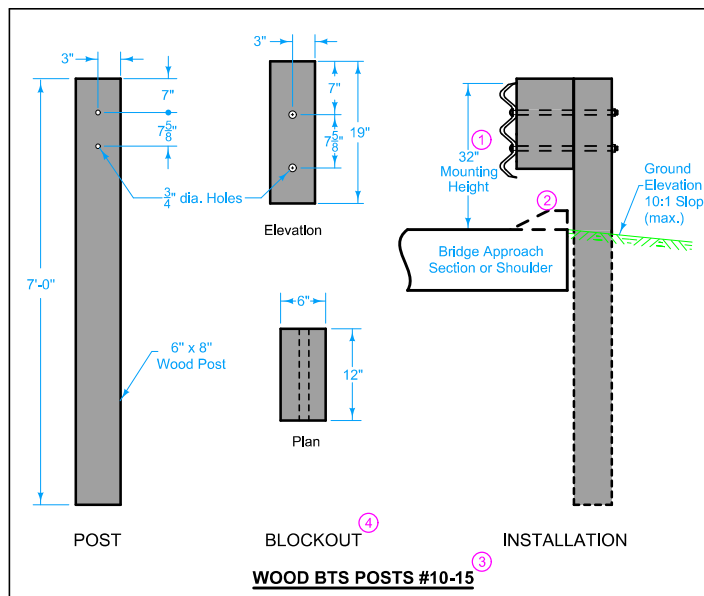
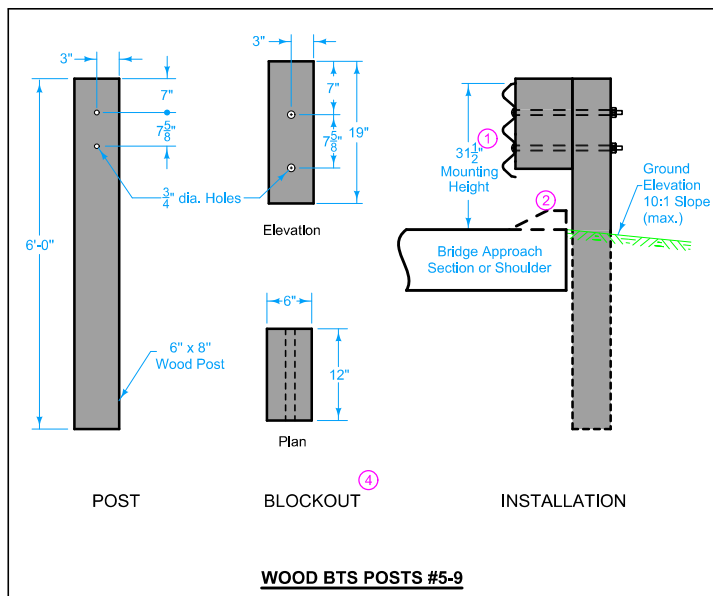
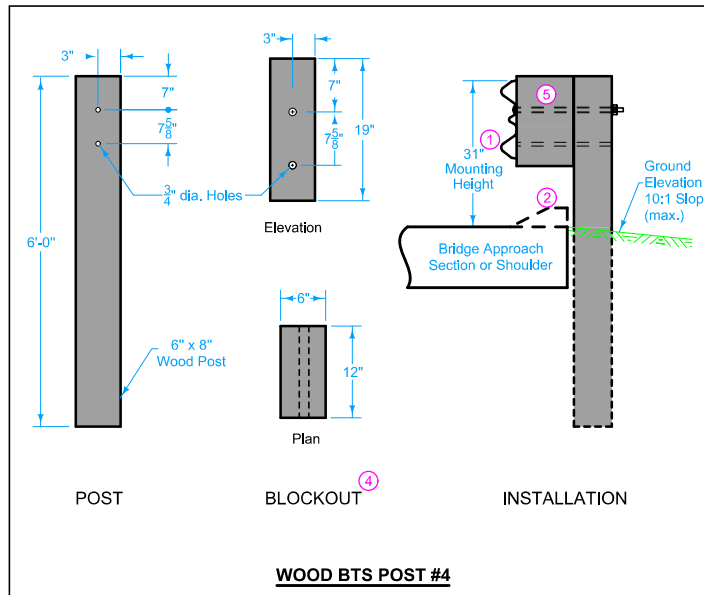
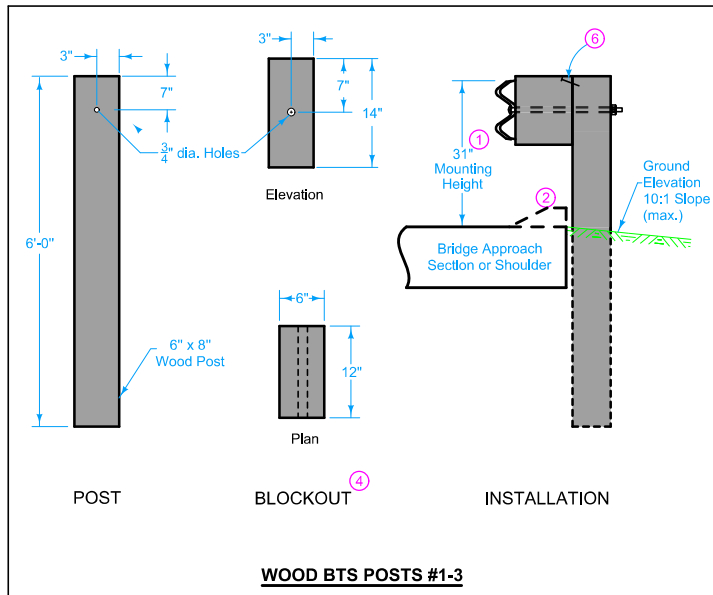
\* One 18'-9" Thrie-Beam rail section may be substituted for one of the 12'-6" sections and the 6'-3" section as shown

<b>IOWA DOT</b>	REVISION
	5   04-18-17
	<b>STANDARD ROAD PLAN</b>
<b>BA-201</b>	
SHEET 1 of 3	
<small>REVISIONS: Changed Circle Note 5. Changed hole spacing dimensions on WOOD BTS POST #4 view on page 3. Added Circle Note 6 on Page 3.</small>	
 <small>APPROVED BY DESIGN METHODS ENGINEER</small>	
<b>STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION (MASH TL-3)</b>	



- 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 Depending on end anchor type, BTS Post #15 may be eliminated or modified. See BA-202.
- ④ Wood or composite only. Steel blockouts will not be allowed.
- ⑤ Place bolt in top hole only.

<b>IOWA DOT</b>	REVISION
	5   04-18-17
	<b>STANDARD ROAD PLAN</b>
<b>BA-201</b>	SHEET 2 of 3
REVISIONS: Changed Circle Note 5. Changed hole spacing dimensions on WOOD BTS POST #4 view on page 3. Added Circle Note 6 on Page 3.	
<i>Brian Smith</i> APPROVED BY DESIGN METHODS ENGINEER	
<b>STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION (MASH TL-3)</b>	



- 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 Depending on end anchor type, BTS Post #15 may be eliminated or modified. See BA-202.
- ④ Wood or composite only. Steel blockouts will not be allowed.
- ⑤ Place bolt in top hole only.
- ⑥ 16d nail to prevent blockout rotation.

 <b>STANDARD ROAD PLAN</b>	REVISION 5   04-18-17
	<b>BA-201</b>
	SHEET 3 of 3
REVISIONS: Changed Circle Note 5. Changed hole spacing dimensions on WOOD BTS POST #4 view on page 3. Added Circle Note 6 on Page 3.	
 APPROVED BY DESIGN METHODS ENGINEER	
<b>STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION (MASH TL-3)</b>	