

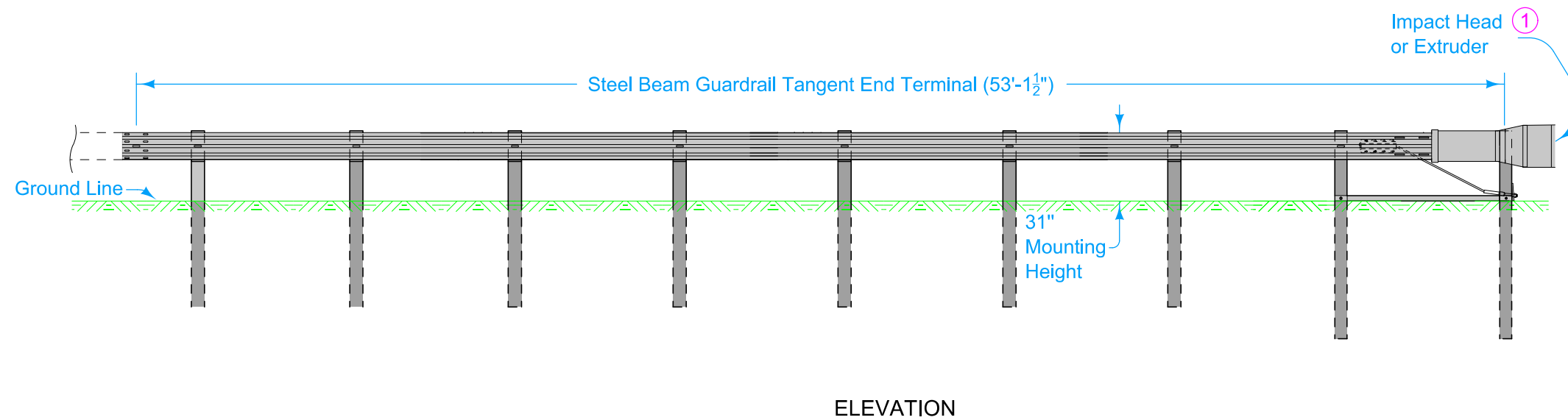
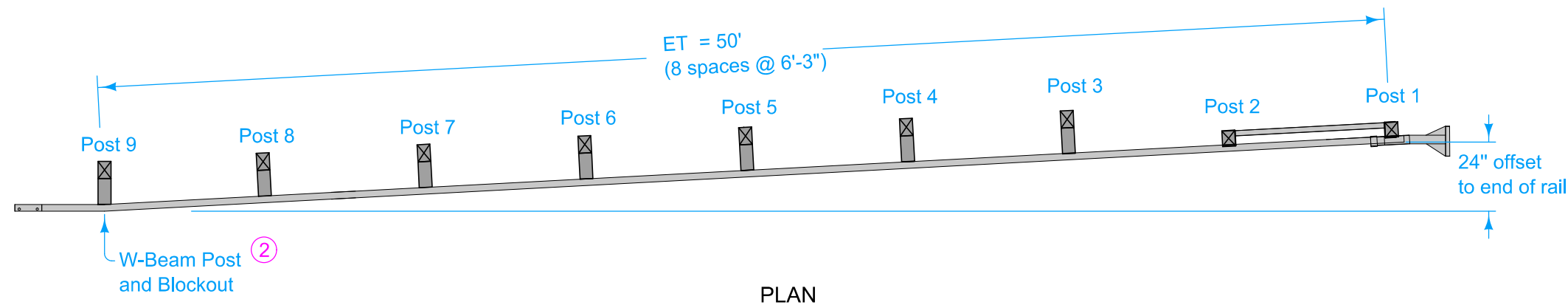
DESIGNER INFORMATION

Refer to Materials I.M. 455.02 for a list of approved sources.

With Engineer's approval, the Contractor may install the end terminal of BA-205.

Use materials meeting the respective manufacturer's specifications. Install end terminals according to the manufacturer's recommendations.

Drive posts using a hammer driver. Ensure posts are not damaged during installation. Posts may be placed in prebored holes if site conditions are such that posts cannot be driven. Place backfill material consisting of material removed or other suitable soil around posts. Place the backfill material in lifts not exceeding 4 inches. Thoroughly compact each lift before the next lift is placed.



(1) Cover entire face of impact head or extruder with alternating black and yellow striped adhesive sheeting meeting the following requirements:

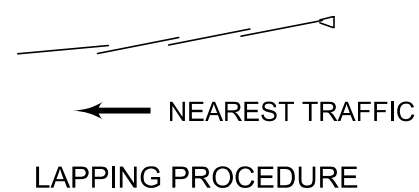
- Stripes are approximately 3 inches wide and slope down at a 45 degree angle toward the side on which traffic is to pass the end terminal.

- Yellow stripes meet the retroreflectivity requirements for Type III or Type IV reflective sheeting.

(2) Refer to BA-200.

Possible Contract Item:
Steel Beam Guardrail Tangent End Terminal, LS-625

Possible Tabulations:
108-8A
108-8B
108-8C
108-8D



	REVISION	
	1	10-19-21
STANDARD ROAD PLAN		LS-625
		SHEET 1 of 1
REVISIONS: Removed note about alternate post design. Added note about driving posts. Added engineer's approval note.		
APPROVED BY DESIGN METHODS ENGINEER		
STEEL BEAM GUARDRAIL TANGENT END TERMINAL (NCHRP 350 TL-3)		

DESIGNER INFORMATION

Refer to Materials I.M. 455.02 for a list of approved sources.

Use materials meeting the respective manufacturer's specifications. Install end terminals according to the manufacturer's recommendations.

Drive posts using a hammer driver. Ensure posts are not damaged during installation. Posts may be placed in prebored holes if site conditions are such that posts cannot be driven. Place backfill material consisting of material removed or other suitable soil around posts. Place the backfill material in lifts not exceeding 4 inches. Thoroughly compact each lift before the next lift is placed.

① Cover entire face of impact head or buffered end section with alternating black and yellow striped adhesive sheeting meeting the following requirements:

-Stripes are approximately 3 inches wide and slope down at a 45 degree angle toward the side on which traffic is to pass the end terminal.

-Yellow stripes meet the retroreflectivity requirements for Type III or Type IV reflective sheeting.

② Refer to BA-200.

Possible Contract Item:
Steel Beam Guardrail Flared End Terminal, LS-626

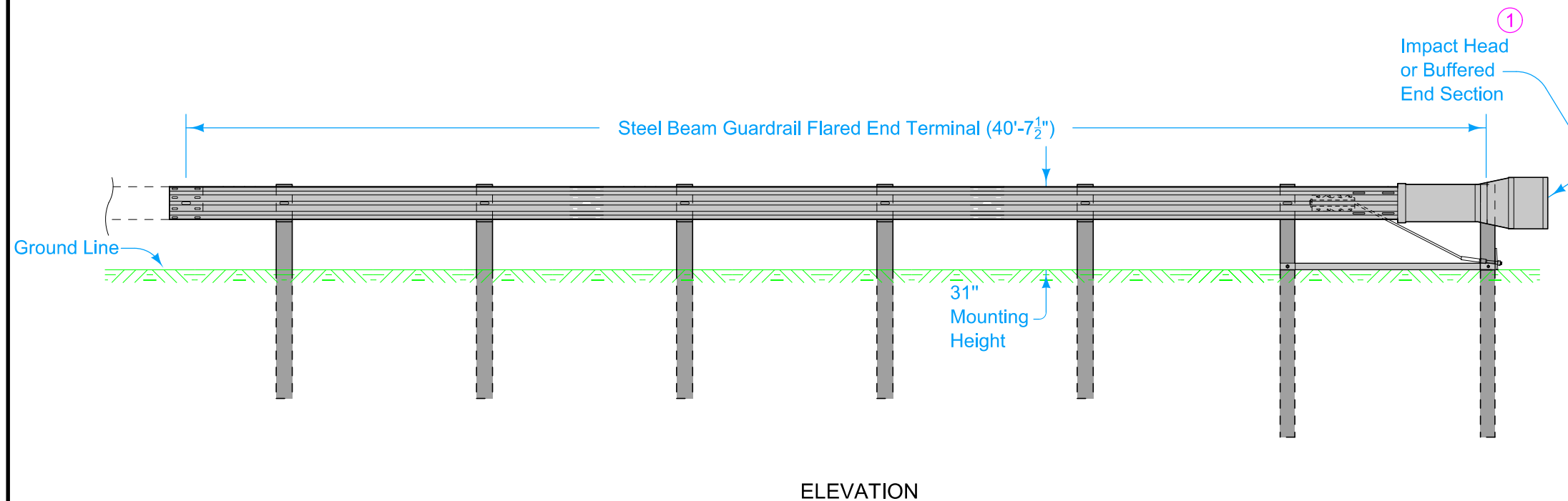
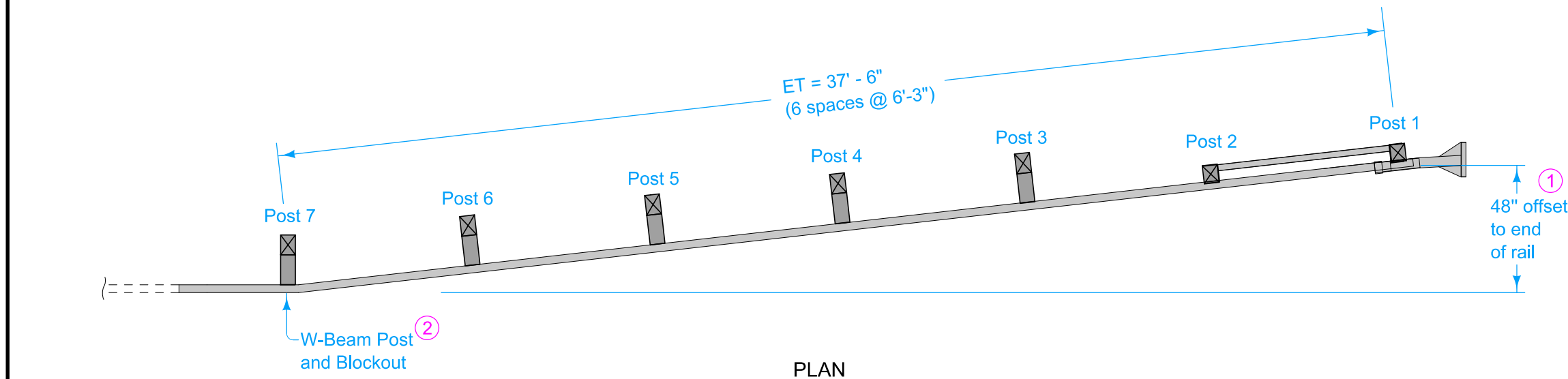
Possible Tabulations:
108-8A
108-8B
108-8C

 STANDARD ROAD PLAN	REVISION	
	1	10-19-21
	LS-626 SHEET 1 of 1	

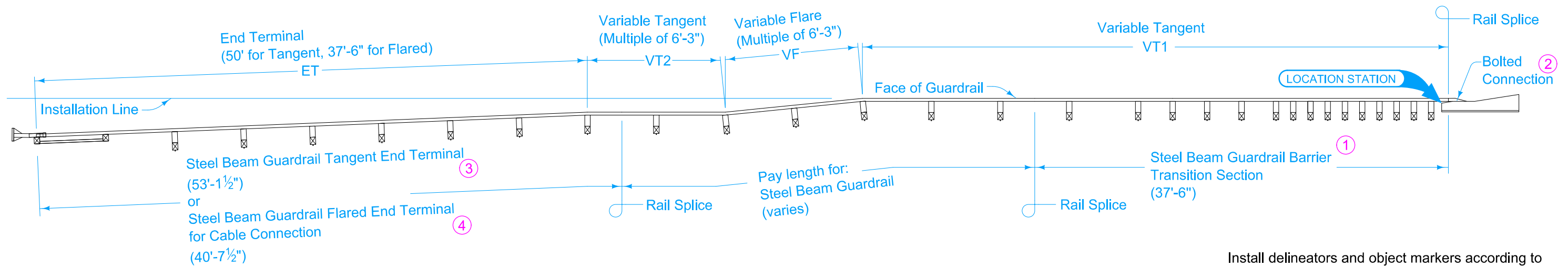
REVISIONS: Removed note about alternate post design. Added note about driving posts.

Shawn Miller
APPROVED BY DESIGN METHODS ENGINEER

**STEEL BEAM GUARDRAIL
FLARED END TERMINAL
(NCHRP 350 TL-3)**



LAPPING PROCEDURE

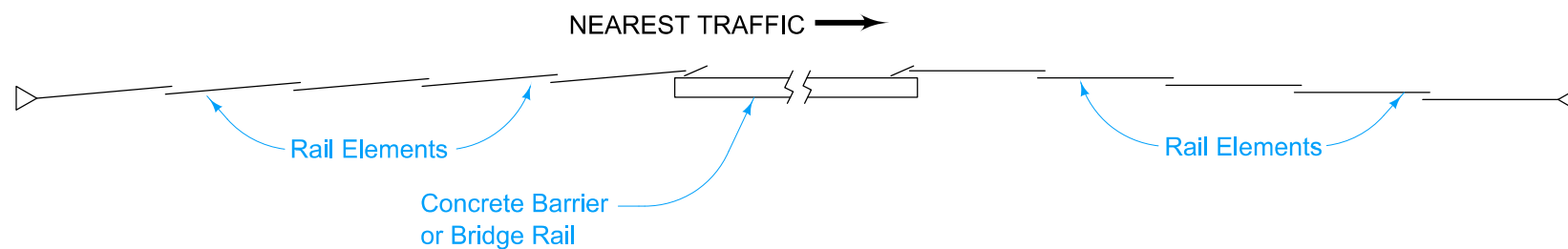


Install delineators and object markers according to SI-211.

For grading requirements, see EW-301.

For general guardrail details, see BA-200.

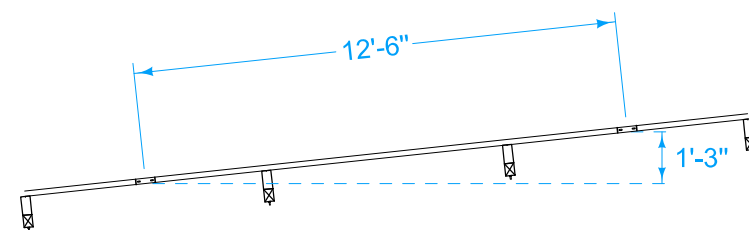
- ① See BA-201.
- ② See BA-202 for connections to concrete barriers and bridge rail end sections.
- ③ See LS-625.
- ④ See LS-626.



LAPPING PROCEDURE

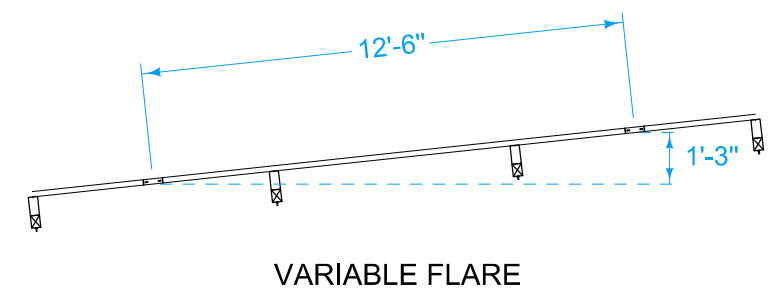
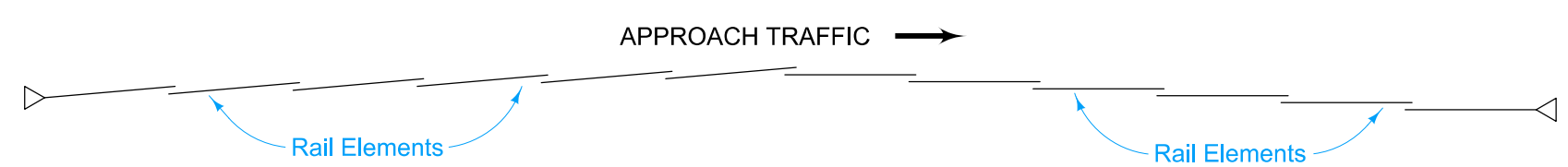
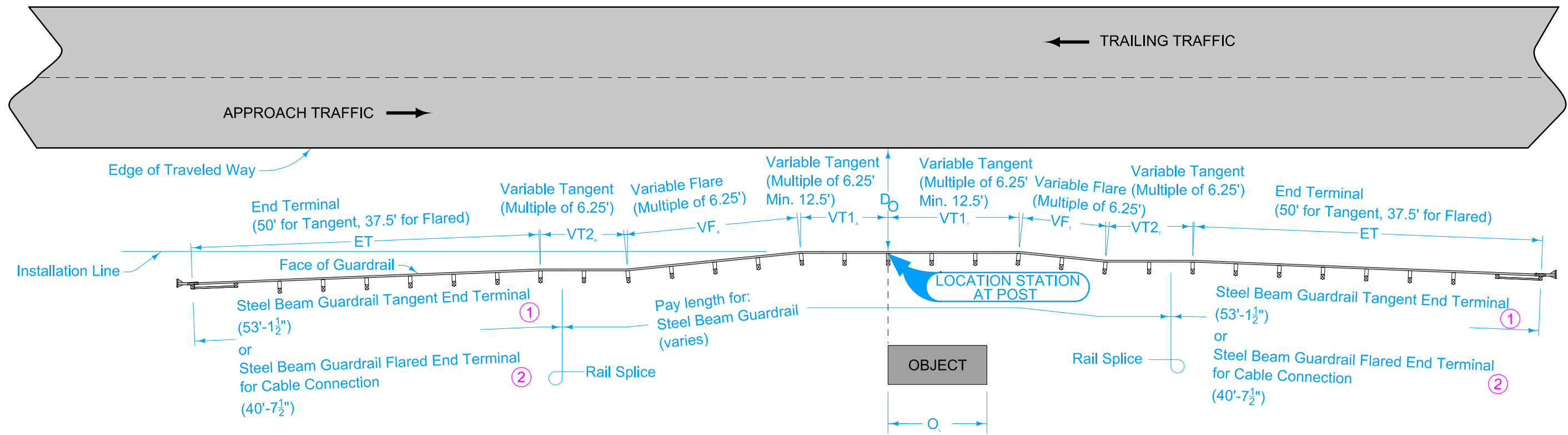
- Possible Contract Items:
- Steel Beam Guardrail
 - Steel Beam Guardrail Barrier Transition Section, BA-201
 - Steel Beam Guardrail End Anchor, Bolted
 - Steel Beam Guardrail Flared End Terminal, LS-626
 - Steel Beam Guardrail Tangent End Terminal, LS-625

Possible Tabulation:
108-8A



VARIABLE FLARE

	REVISION	
	2	10-19-21
STANDARD ROAD PLAN		LS-630
		SHEET 1 of 1
REVISIONS: Removed circle note 5.		
APPROVED BY DESIGN METHODS ENGINEER		
STEEL BEAM GUARDRAIL INSTALLATION AT CONCRETE BARRIER OR BRIDGE RAIL END SECTION (NCHRP 350 TL-3)		



Install delineators and object markers according to SI-211.

For grading requirements, see EW-301.

For general guardrail details, see BA-200.

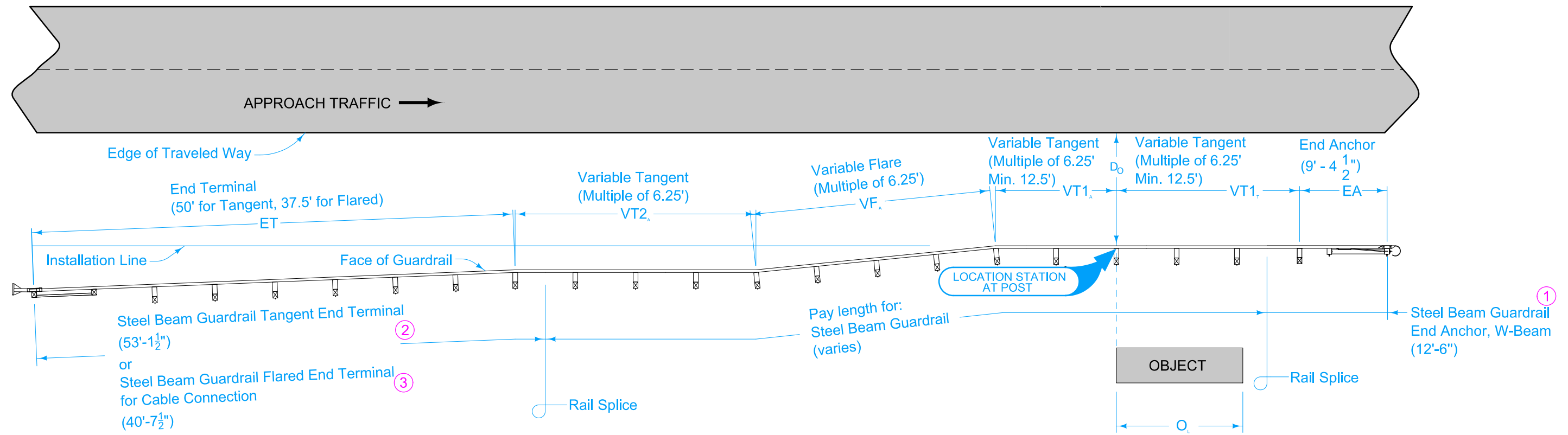
① See LS-625.

② See LS-626.

Possible Contract Items:
 Steel Beam Guardrail
 Steel Beam Guardrail Flared End Terminal, LS-626
 Steel Beam Guardrail Tangent End Terminal, LS-625

Possible Tabulation:
 108-8B

	REVISION	
	1	04-20-21
STANDARD ROAD PLAN		LS-631
		SHEET 1 of 1
REVISIONS: Changed Obstacle to Object.		
APPROVED BY DESIGN METHODS ENGINEER		
STEEL BEAM GUARDRAIL INSTALLATION AT SIDE OBJECT (TWO-WAY PROTECTION)		



Install delineators and object markers according to SI-211.

For grading requirements, see EW-301.

For general guardrail details, see BA-200.

① See BA-203.

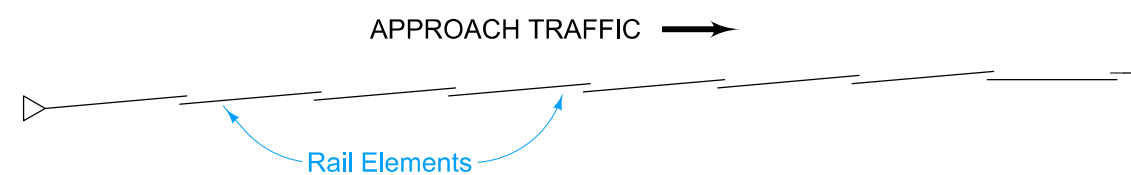
② See LS-625.

③ See LS-626.

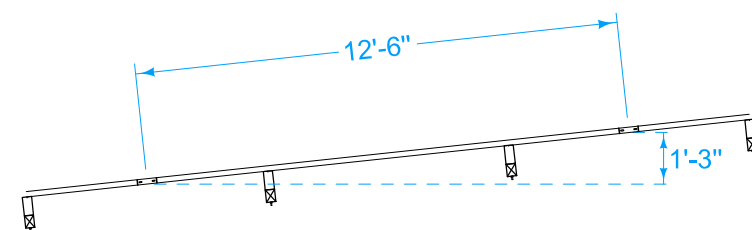
Possible Contract Items:

- Steel Beam Guardrail
- Steel Beam Guardrail End Anchor, W-Beam
- Steel Beam Guardrail Flared End Terminal, LS-626
- Steel Beam Guardrail Tangent End Terminal, LS-625

Possible Tabulation:
108-8C



LAPPING PROCEDURE



VARIABLE FLARE

	REVISION	
	1	04-20-21
STANDARD ROAD PLAN		LS-632
		SHEET 1 of 1

REVISIONS: Changed Obstacle to Object.

Steve Miller
APPROVED BY DESIGN METHODS ENGINEER

**STEEL BEAM GUARDRAIL
INSTALLATION AT SIDE OBJECT
(ONE-WAY PROTECTION)**

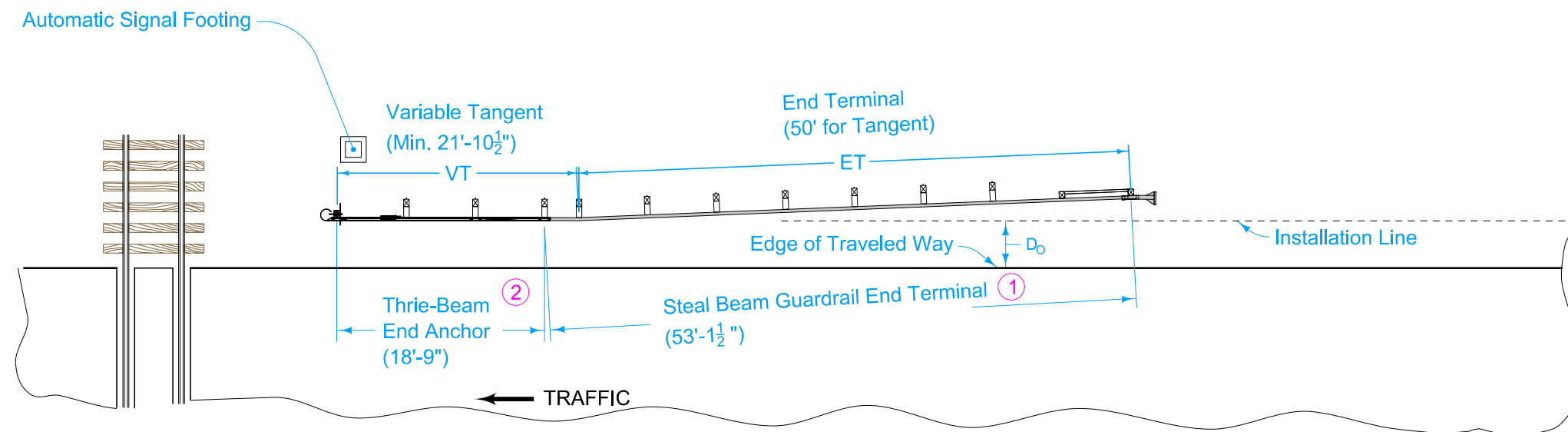
DESIGNER INFORMATION

For grading requirements, refer to EW-301.

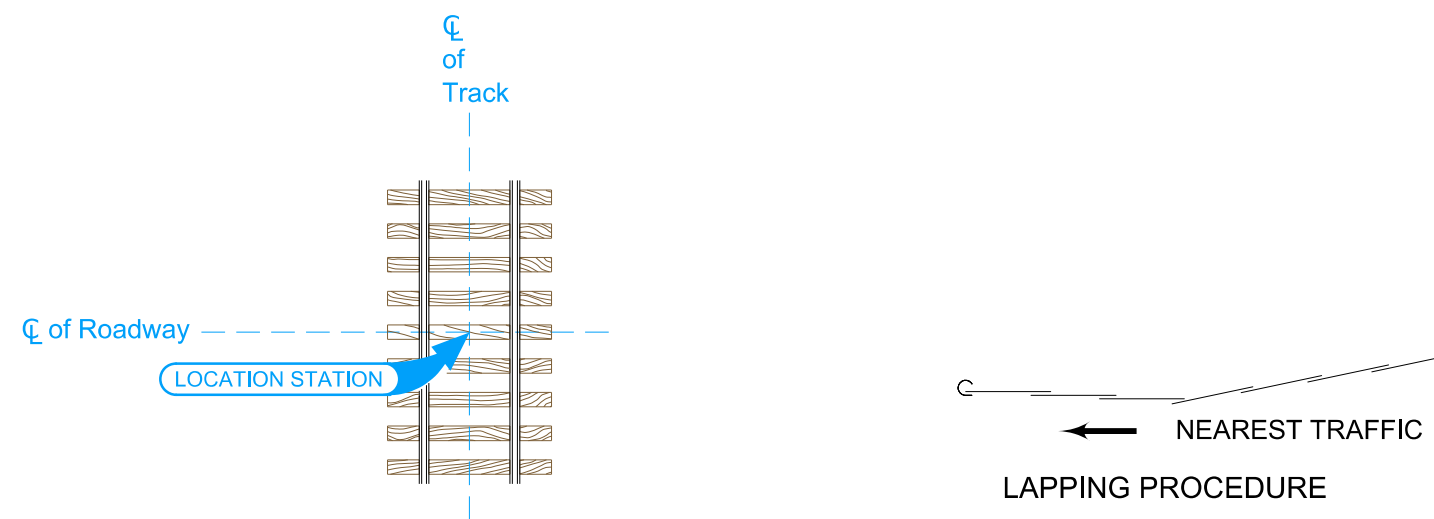
For additional guardrail requirements, refer to BA-200.

① Refer to LS-625.

② Refer to BA-204.



PLAN



Possible Contract Items:
 Steel Beam Guardrail End Anchor, Thrie-Beam
 Steel Beam Guardrail Tangent End Terminal, LS-625

Incidental to Steel Beam Guardrail End Anchor, Thrie-Beam:
 Delineator, Rigid - Type I
 Object Marker, Type 2
 Object Marker, Type 3

Possible Tabulation:
 108-8D

	REVISION	
	New	04-19-16
STANDARD ROAD PLAN		LS-633
		SHEET 1 of 1

REVISIONS: New. Previously published as BA-253.

Steve Miller
 APPROVED BY DESIGN METHODS ENGINEER

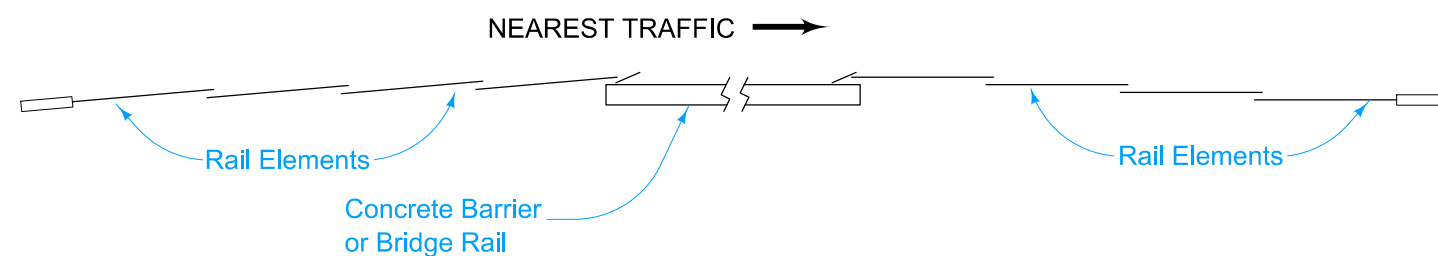
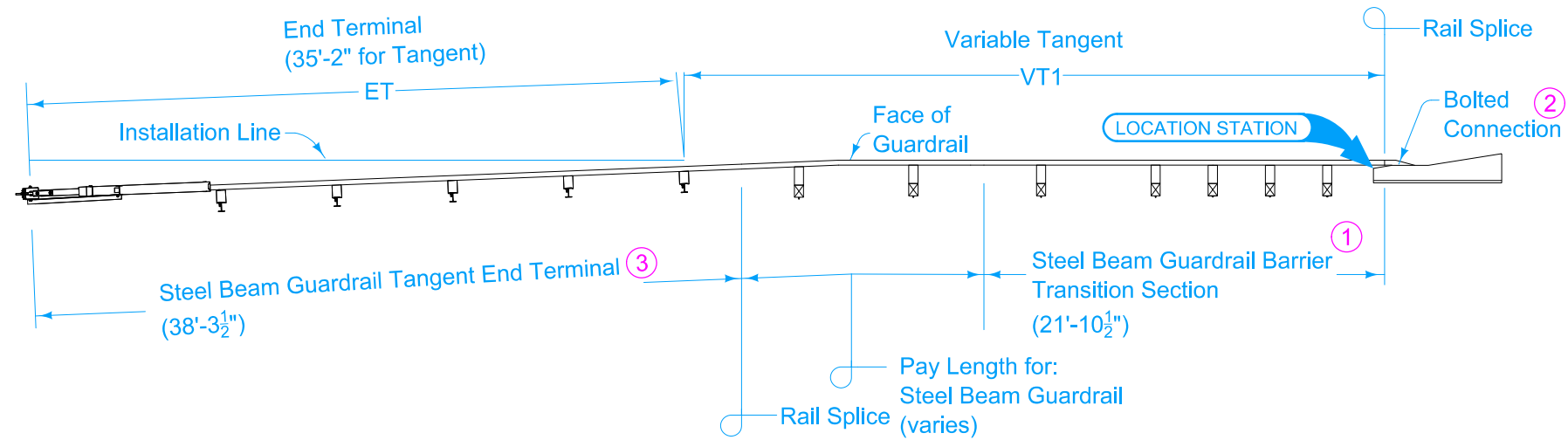
**STEEL BEAM GUARDRAIL
 INSTALLATION AT RAILROAD SIGNAL**

Install delineators and object markers according to SI-211.

For grading requirements, see EW-301.

For general guardrail details, see BA-200.

- ① See BA-221.
- ② See BA-202 for connections to concrete barriers and bridge rail end sections.
- ③ See BA-225.



LAPPING PROCEDURE

- Possible Contract Items:
- Steel Beam Guardrail
 - Steel Beam Guardrail Barrier Transition Section, BA-221
 - Steel Beam Guardrail End Anchor, Bolted
 - Steel Beam Guardrail Tangent End Terminal, BA-225

Possible Tabulation:
108-8A

	REVISION	
	3	10-18-22
STANDARD ROAD PLAN		LS-635
		SHEET 1 of 1
REVISIONS: Modified dimension lines.		
APPROVED BY DESIGN METHODS ENGINEER		
STEEL BEAM GUARDRAIL INSTALLATION AT CONCRETE BARRIER OR BRIDGE RAIL END SECTION (MASH TL-2)		