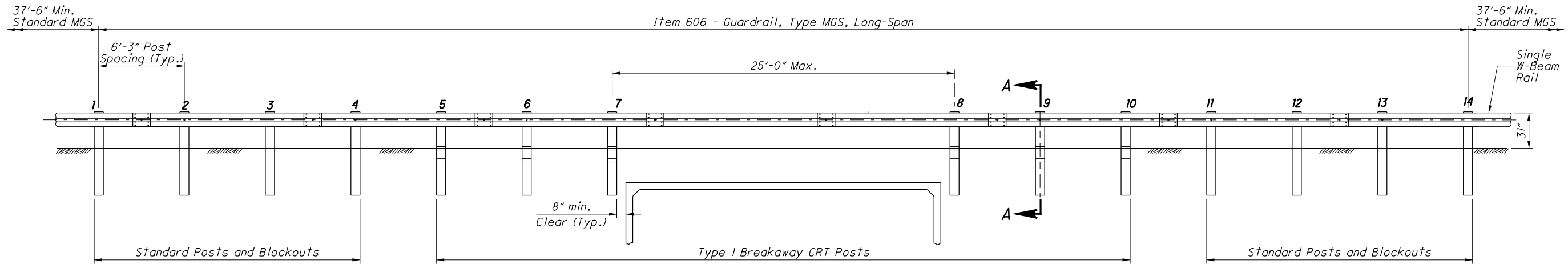


PLAN



ELEVATION

25'-0" GUARDRAIL SPAN

NOTES

APPLICATION: This drawing details the 25'-0" maximum Long-span Guardrail across a culvert option, which meets the requirements of MASH Test Level 3.

A minimum length of 37'-6" of Standard MGS guardrail is required before Post 1 and after Post 14 to maintain stability in the system. Normal grading with the slope break point at the post is permitted beyond Posts 1-14.

POSTS: Use Type 1 Breakaway CRT Wood Post for Posts No. 5-10. Use Standard MGS Posts No. 1-4 and 11-14. See **SCD MGS-2.1** for details.

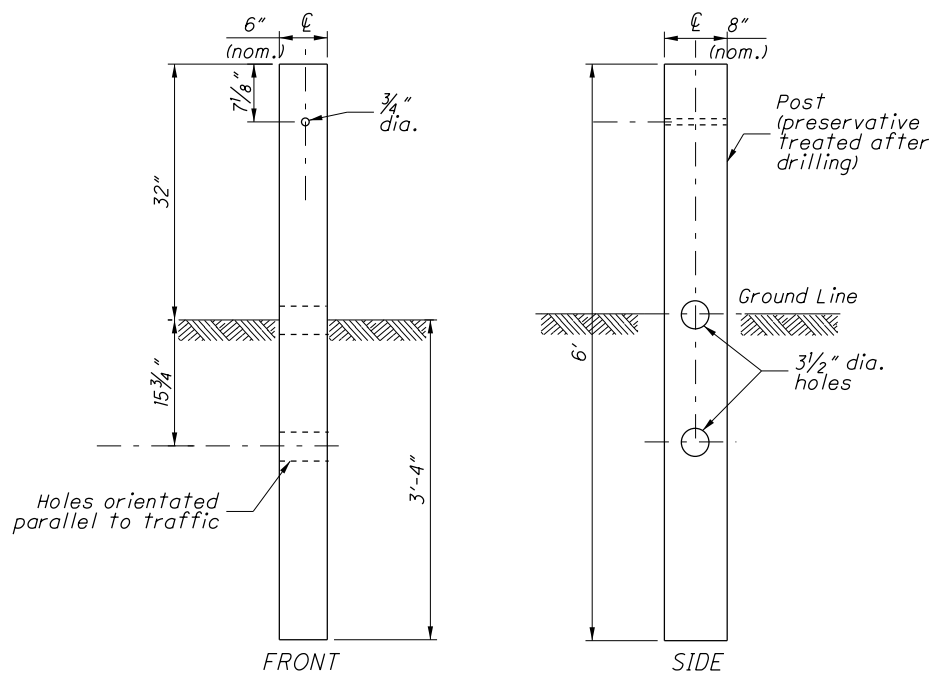
LATERAL OFFSET: When the headwall is flush with the grade, the posts should be offset as shown. If the headwall continues above grade, the system should be offset 8' from the fixed object.

FLARED ENDS: For locations where a guardrail flare is desired, the system should remain tangent for 25'-0" before post 1 or after post 14, at which point the guardrail may flare at a maximum taper rate of 7:1.

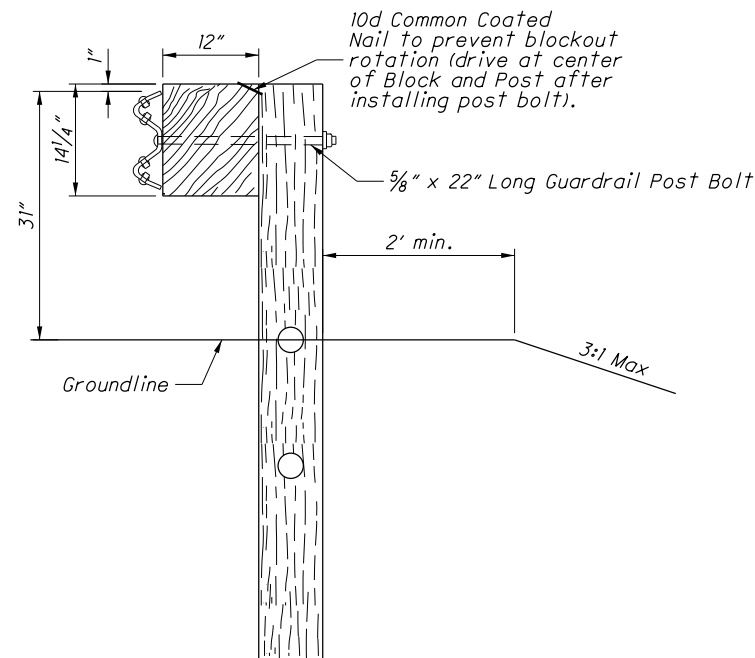
MATERIALS: All posts, blockouts, rails, and hardware shall comply with Item 606, Guardrail Type MGS as detailed on **SCD MGS-2.1** except as noted. For other details not shown, see **SCD MGS-1.1**.

PAYMENT: Item 606 - Guardrail, Type MGS, 25' Long-Span is paid for in Feet for the length specified in the plans between Posts 1 and 14 and includes blockouts, posts, and the other hardware, materials, equipment and labor required to construct the guardrail as shown. The guardrail required before Post 1 and after Post 14 is paid for as Item 606 - Guardrail, Type MGS, in Feet.

The additional grading required behind Posts 1 through 14 is paid for as Item 203 Embankment, Cu. Yd.

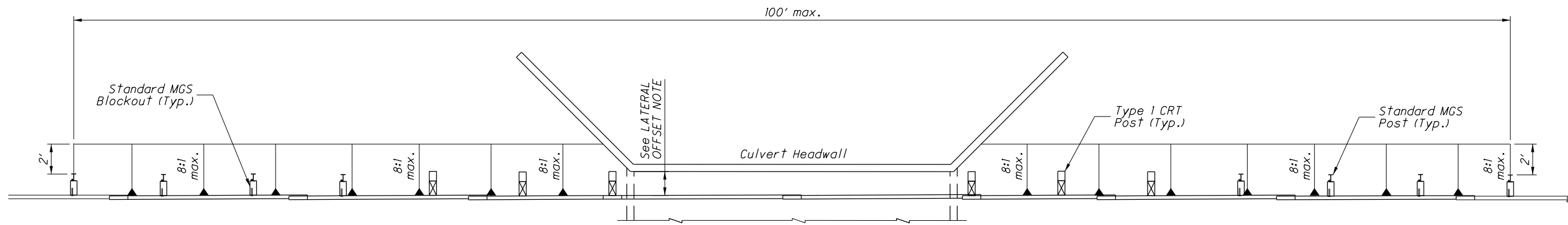


TYPE 1 BREAKAWAY CRT WOOD POST

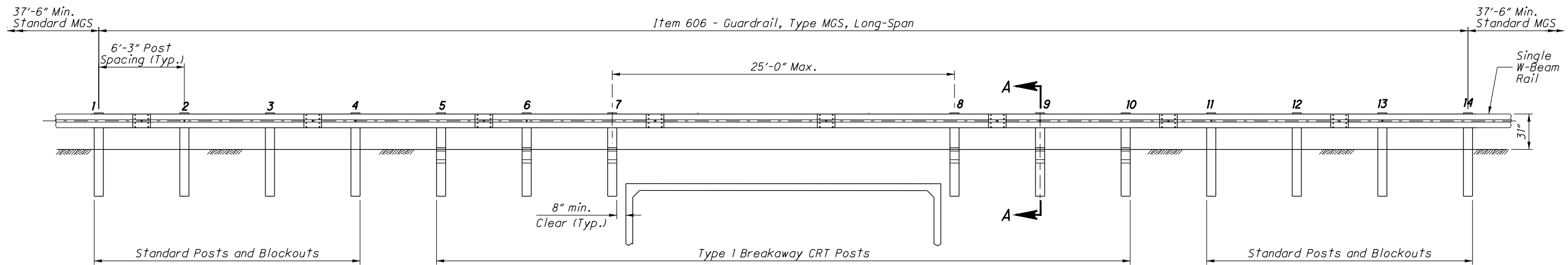


SECTION A-A

THIS IS A NEW DRAWING

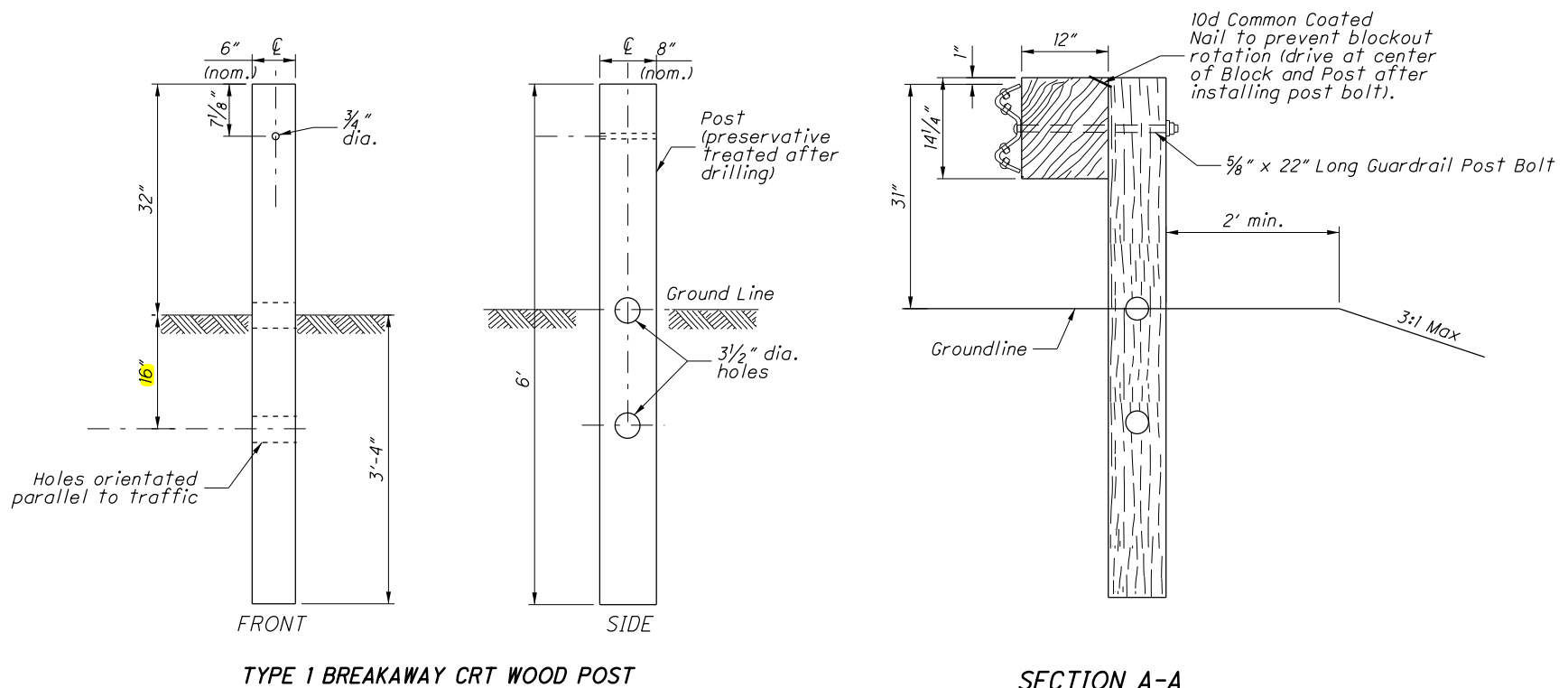


PLAN



ELEVATION

25'-0" GUARDRAIL SPAN



TYPE 1 BREAKAWAY CRT WOOD POST

SECTION A-A

NOTES

APPLICATION: This drawing details the 25'-0" maximum Long-span Guardrail across a culvert option, which meets the requirements of MASH Test Level 3.

A minimum length of 37'-6" of Standard MGS guardrail is required before Post 1 and after Post 14 to maintain stability in the system. Normal grading with the slope break point at the post is permitted beyond Posts 1-14.

POSTS: Use Type 1 Breakaway CRT Wood Post for Posts No. 5-10. Use Standard MGS Posts No. 1-4 and 11-14. See **SCD MGS-2.1** for details.

LATERAL OFFSET: When the headwall is flush with the grade, the back of the post can be aligned with the near side of the headwall. But if the headwall continues above grade, the system should be offset 8' from the fixed object.

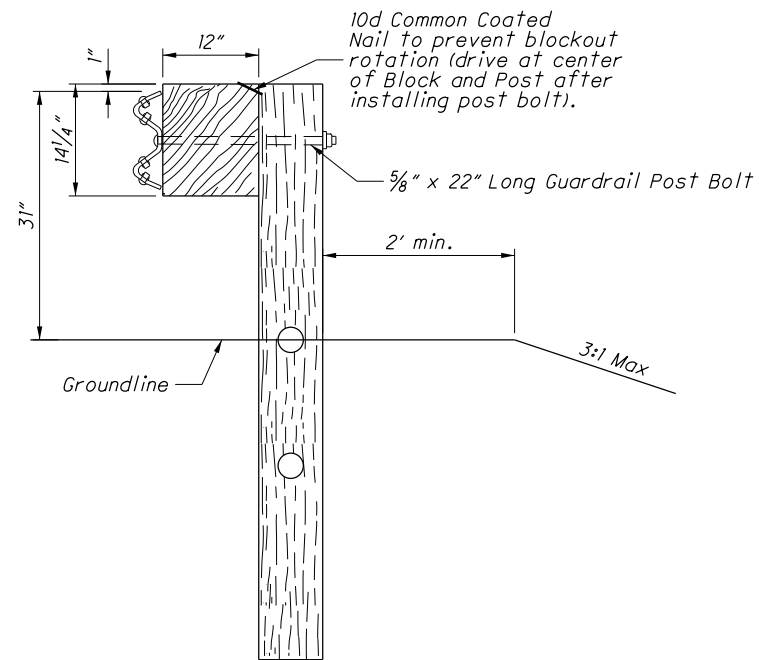
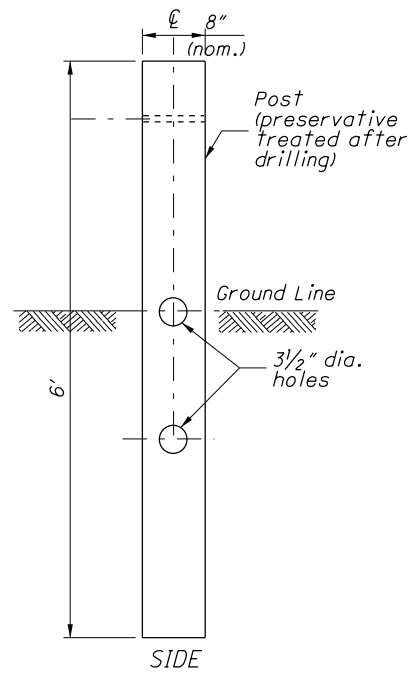
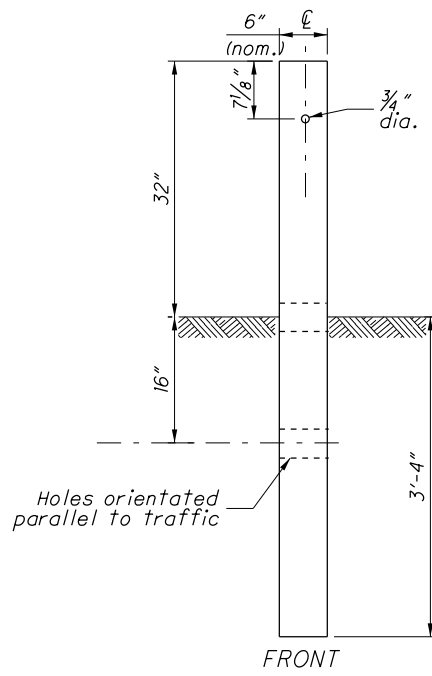
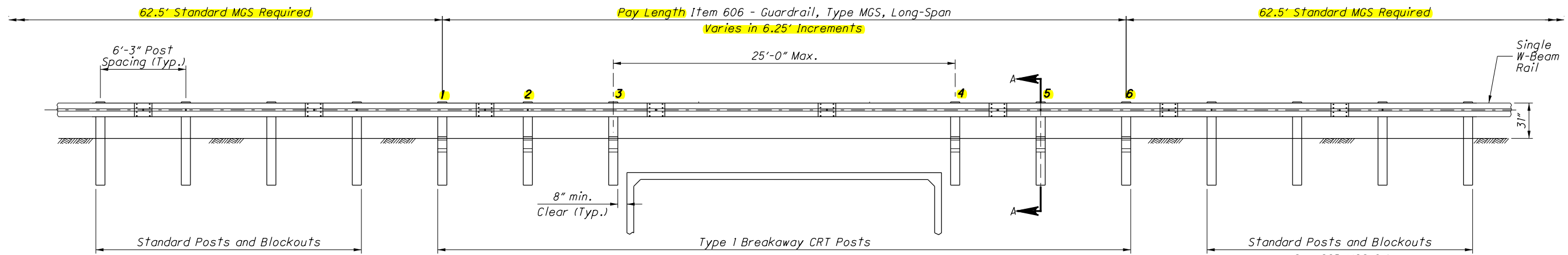
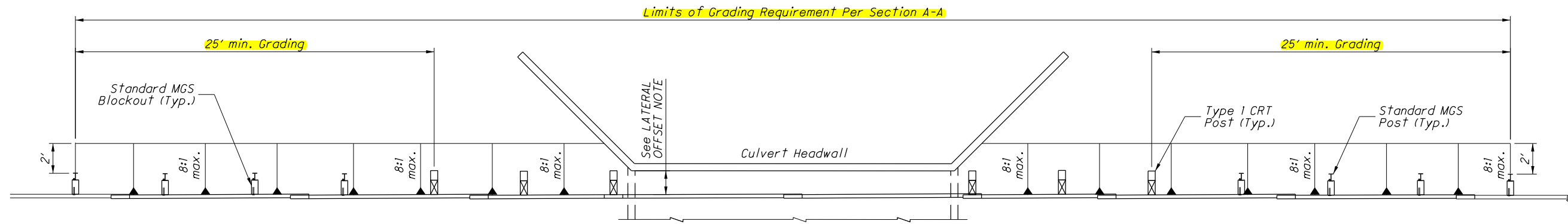
FLARED ENDS: For locations where a guardrail flare is desired, the system should remain tangent for 25'-0" before post 1 or after post 14, at which point the guardrail may flare at a maximum taper rate of 7:1.

MATERIALS: All posts, blockouts, rails, and hardware shall comply with Item 606, Guardrail Type MGS as detailed on **SCD MGS-2.1** except as noted. For other details not shown, see **SCD MGS-1.1**.

PAYMENT: Item 606 - Guardrail, Type MGS, 25' Long-Span is paid for in Feet for the length specified in the plans between Posts 1 and 14 and includes blockouts, posts, and the other hardware, materials, equipment and labor required to construct the guardrail as shown. The guardrail required before Post 1 and after Post 14 is paid for as Item 606 - Guardrail, Type MGS, in Feet.

The additional grading required behind Posts 1 through 14 is paid for as Item 203 Embankment, Cu. Yd.

THIS DRAWING REPLACES MGS-2.3 DATED 1-18-2013



NOTES

APPLICATION: This drawing details the 25'-0" maximum Long-span Guardrail across a culvert option, which meets the requirements of MASH Test Level 3.

A minimum length of 62.5' of Standard MGS guardrail is required before Post 1 and after Post 6 to maintain stability in the system. Normal grading with the slope break point at the post is permitted beyond the grading limits shown.

POSTS: Use Type 1 Breakaway CRT Wood Post for Posts No. 1-6.

LATERAL OFFSET: When the headwall is flush with the grade, the back of the post can be aligned with the near side of the headwall. But if the headwall continues above grade, the system should be offset 8' from the fixed object.

FLARED ENDS: For locations where a guardrail flare is desired, the system should remain tangent for 50'-0" before post 1 or after post 6, at which point the guardrail may flare at a maximum taper rate of 7:1.

MATERIALS: All posts, blockouts, rails, and hardware shall comply with Item 606, Guardrail Type MGS as detailed on SCD MGS-2.1 except as noted. For other details not shown, see SCD MGS-1.1.

PAYMENT: Item 606 - Guardrail, Type MGS, Long-Span is paid for in Feet for the length specified in the plans between Posts 1 and 6 and includes blockouts, posts, and the other hardware, materials, equipment and labor required to construct the guardrail as shown. The guardrail required before Post 1 and after Post 6 is paid for as Item 606 - Guardrail, Type MGS, in Feet.

The additional grading required is paid for as Item 203 Embankment, Cu. Yd.

THIS DRAWING REPLACES MGS-2.3 DATED 7-19-2013

SCD NUMBER	MGS-2.3	OFFICE OF ROADWAY ENGINEERING	STATE OF OHIO DEPARTMENT OF TRANSPORTATION ADMINISTRATOR	DATE 7-18-2014
		MIDWEST GUARDRAIL SYSTEM	M. Ruppe	Pyraldo Stangell
		LONG-SPAN GUARDRAIL	ENGINEER	ADMINISTRATOR