

PROVIDE 20' x 75' AREA FREE OF FIXED OBJECT HAZARDS BEHIND GUARDRAIL. ANY SIGNS OR OTHER HIGHWAY APPURTENANCES SHALL BE MOUNTED ON BREAKAWAY SUPPORTS. SEE NOTE 3.

TOE OF FILL SLOPE (PER CONSTRUCTION PLANS)

TOP OF CUT SLOPE (PER CONSTRUCTION PLANS)

SEE DETAIL A ON SHEET 3

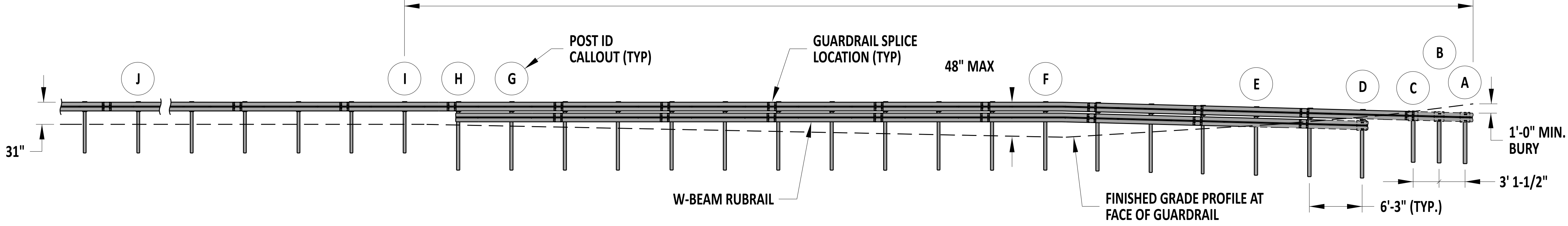
SEE DETAIL B ON SHEET 3

HINGE POINT LINE

TYPE 1-31 GUARDRAIL  
SEE NOTE 2

**PERSPECTIVE VIEW**

LIMIT OF PAYMENT



**ELEVATION**

HINGE POINT OFFSET TABLE	
POST NO.	OFFSET*
A	14'-3"
D	11'-2 1/4"
E	9'-1 1/2"
F	6'-0 1/4"
I	3 1/4"

FLARE RATE TABLE	
POSTS	FLARE RATE
A-D	4:1
D-E	6:1
E-F	8:1
F-I	13:1
I-J	13:1 OR FLATTER

\*HINGE POINT OFFSET IS MEASURED FROM THE HINGE POINT LINE TO THE BACK OF GUARDRAIL. THESE OFFSETS APPLY ONLY FOR THE FORESLOPE AND BACKSLOPE CONDITIONS SHOWN ON THE SECTIONS ON SHEET 2. FOR OTHER FORESLOPE OR BACKSLOPE CONDITIONS, THESE OFFSETS NEED TO BE RECOMPUTED.

- NOTES:**
- 1). PAY LIMITS FOR BURIED-IN-BACKSLOPE TERMINAL ARE FROM POST A TO POST I.
  - 2). EXTEND THE TYPE 1-31 GUARDRAIL AT A 13:1, OR FLATTER, FLARE RATE FROM POST I TO POST J, WHERE THE TYPICAL GUARDRAIL RUN IS PARALLEL TO THE SHOULDER. FIELD BEND W-BEAM RAIL ELEMENT TO TRANSITION FROM THE 13:1 FLARE TO PARALLEL TO THE SHOULDER AT POST J.
  - 3). PROVIDE A 20' x 75' OBJECT FREE AREA WHEN BACKSLOPES ARE FLATTER THAN 2:1. WHEN REQUIRED, THIS WORK IS SUBSIDIARY TO THE BURIED-IN-BACKSLOPE TERMINAL.
  - 4). CURB IS NOT PERMITTED WITHIN THE LIMIT OF PAYMENT.
  - 5). MASH COMPLIANT DESIGN - BASED ON TTI REPORT NO. 608431-01-1&2.

- DESIGN NOTES:**
- 1). THE LENGTH OF NEED (LON) POINT SHOWN ON THIS SHEET IS FOR THE CONDITIONS SHOWN IN THE SECTIONS ON SHEET 2. FOR OTHER FORESLOPE CONDITIONS, THE LON POINT IS WHERE THE TOP OF THE RAIL HEIGHT FIRST REACHES 4'-0" WITH RESPECT TO THE FINISHED GRADE AT THE FACE OF THE GUARDRAIL.



Andrew Short  
ENGINEERING SUPPORT  
RECOMMENDED  
DATE 12/22/2023

**BURIED IN BACKSLOPE END TERMINAL, TYPE 1-31**  
STANDARD NO. B-20 (2024) SHT. 1 OF 4

REVIEWED  
APPROVED  
Deputy Director - Design  
Chief Engineer  
DATE 22 December 2023  
DATE 01/11/2024