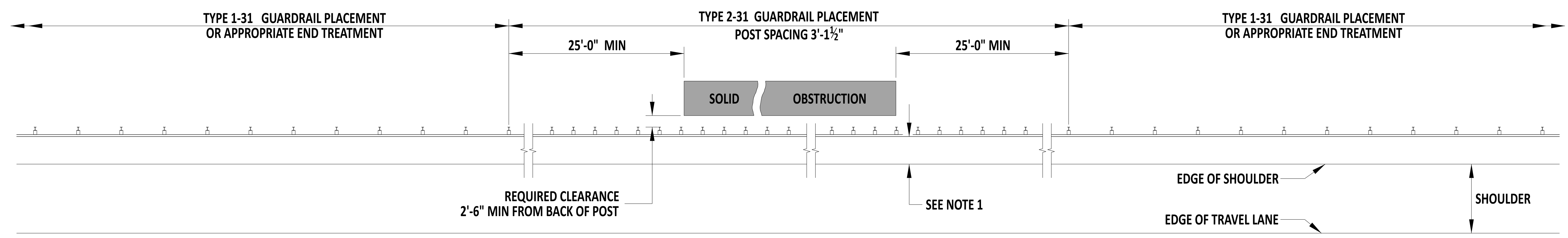
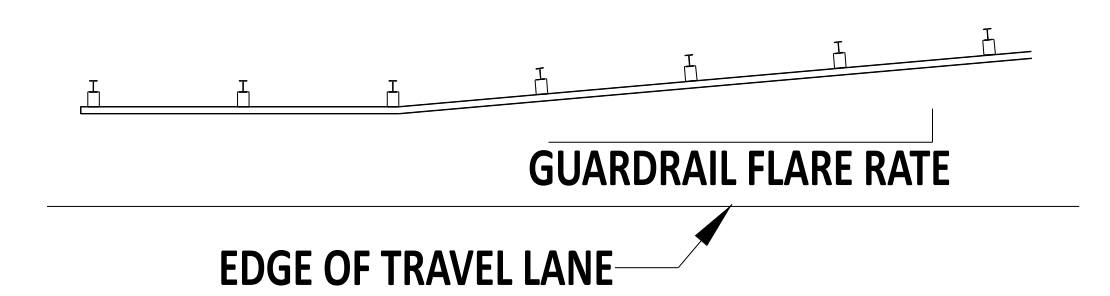


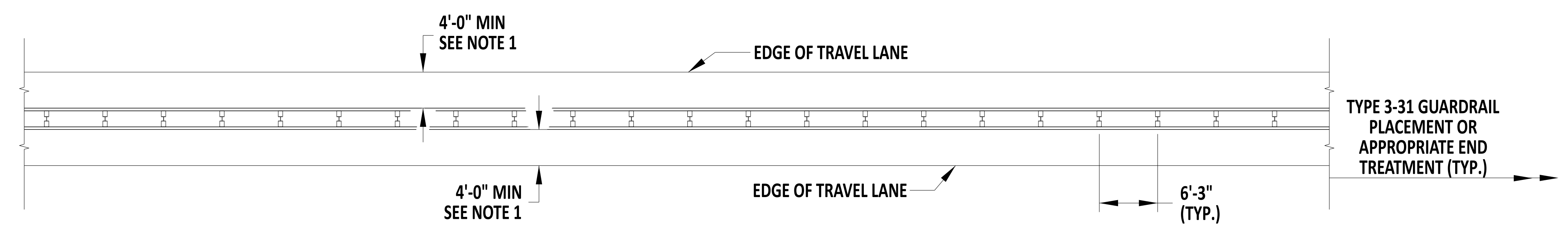
TYPE 1-31 GUARDRAIL
 TYPICAL GUARDRAIL TREATMENT WHEN THE REQUIRED 4'-0" CLEARANCE TO THE OBSTRUCTION IS AVAILABLE
 MASH COMPLIANT SYSTEM - FHWA ELIGIBILITY LETTER B-212



TYPE 2-31 GUARDRAIL
 TYPICAL GUARDRAIL TREATMENT WHEN 2'-6" TO 4'-0" OF CLEARANCE TO OBSTRUCTION IS AVAILABLE
 MASH COMPLIANT SYSTEM - TTI REPORT 610211-03, REV 1.



FLARE RATES	
DESIGN SPEED	FLARE RATE
70 MPH	15:1
60 MPH	14:1
55 MPH	12:1
50 MPH	11:1
45 MPH	10:1
40 MPH	8:1
30 MPH	7:1



TYPE 3-31 GUARDRAIL
 TYPICAL MEDIAN GUARDRAIL TREATMENT
 MASH COMPLIANT SYSTEM - TTI REPORT 9-1002-12-8

- NOTES:**
- 1). MAXIMIZE THE DISTANCE FROM THE EDGE OF THE TRAVEL LANE OR SHOULDER TO THE FACE OF GUARDRAIL. GRADE THIS AREA 10:1 OR FLATTER.
 - 2). INSTALL MAINTENANCE PAVEMENT THE FULL WIDTH FROM THE EDGE OF ROADWAY PAVEMENT, OR BACK OF CURB IF PRESENT, TO 8" BEHIND BACK OF GUARDRAIL POST. SEE DETAIL B-1, SHEET 3 FOR MAINTENANCE PAVEMENT MATERIAL DIMENSIONS.



Andrew Short
 ENGINEERING SUPPORT 12/22/2023
 DATE

RECOMMENDED

GUARDRAIL APPLICATIONS PLAN VIEWS

STANDARD NO. B-1 (2024) SHT. 1 OF 5

REVIEWED *[Signature]* 22 December 2023
 DEPUTY DIRECTOR - DESIGN DATE

APPROVED *[Signature]* 01/11/2024
 CHIEF ENGINEER DATE