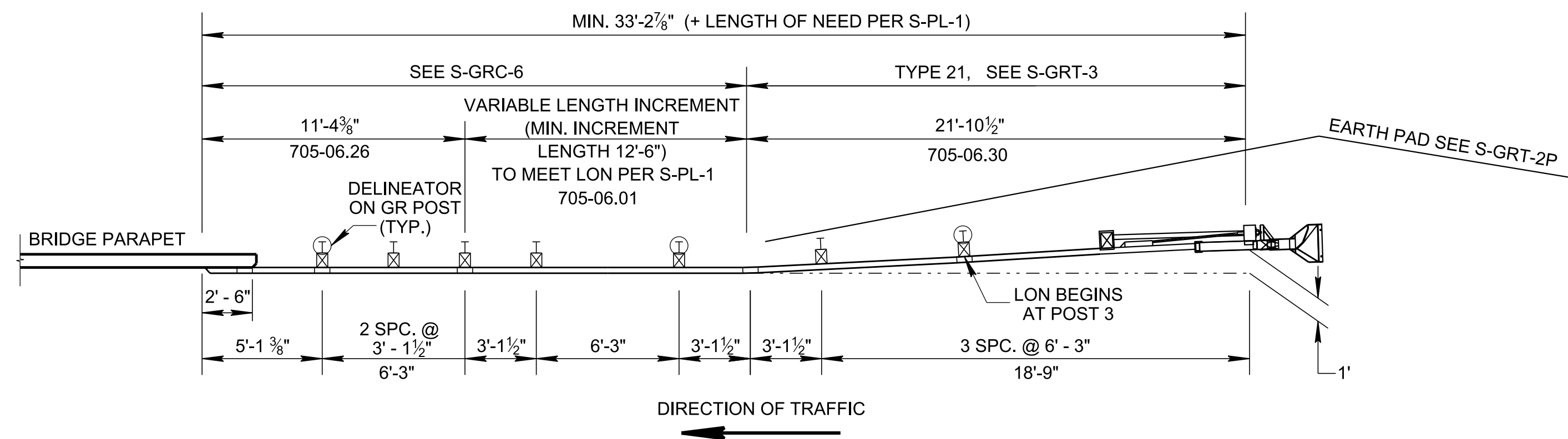
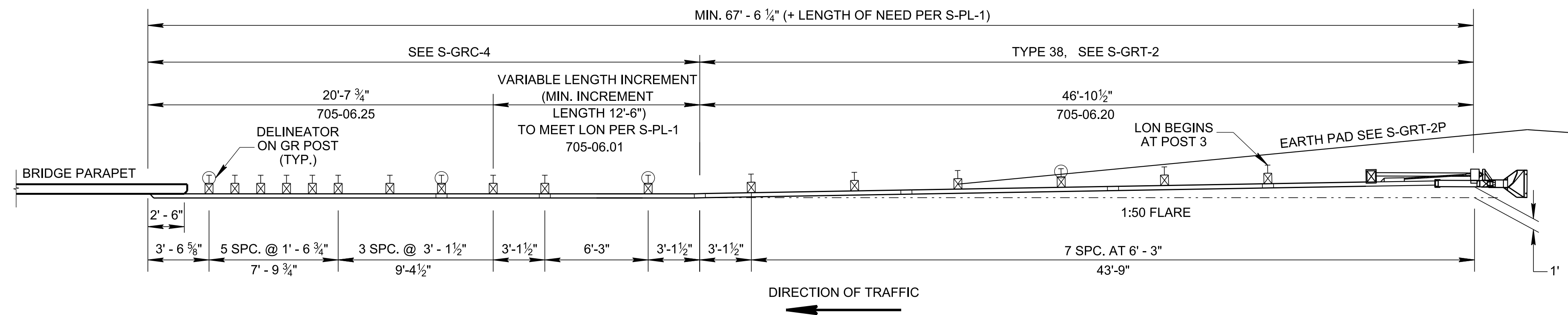


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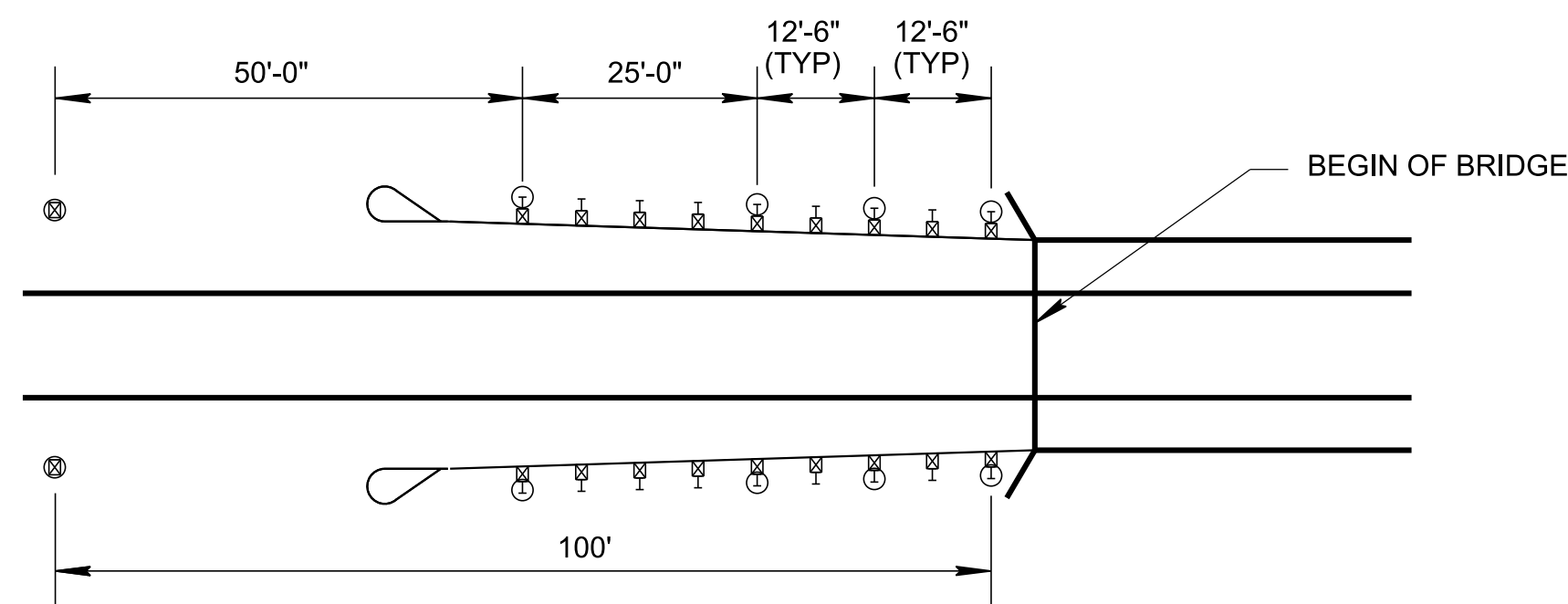
PLAN FOR TYPE 21
MINIMUM INSTALLATION LENGTH FOR TL-2 GUARDRAIL TERMINAL
(FOR LOW SPEED FACILITIES V < 45 MPH)

SAFETY PERFORMANCE OF SLOTTED GUARDRAIL TERMINAL IS ACCEPTABLE ACCORDING TO THE TL-2 EVALUATION CRITERIA SPECIFIED IN AASHTO MASH. SLOTTED GUARDRAIL TERMINAL MAY BE USED ON ALL LOW SPEED ROADS ON THE NATIONAL HIGHWAY SYSTEM WHEN THE CURRENT DESIGN SPEED IS LESS THAN 45 MPH. EARTH PAD IS REQUIRED AS SHOWN ON S-GRT-2P. FOR LOW SPEED LOCAL ROADS WITH ADT < 2000 VEH/DAY, S-GRC-6 MAY BE USED.



PLAN FOR TYPE 38
MINIMUM INSTALLATION LENGTH FOR TANGENTIAL
GUARDRAIL END TERMINAL

SAFETY PERFORMANCE OF TANGENTIAL GUARDRAIL TERMINAL END SHALL MEET THE TL-3 EVALUATION CRITERIA SPECIFIED IN AASHTO MASH. ONLY TERMINALS LISTED ON QPL LIST SHALL BE USED. EARTH PAD IS REQUIRED AS SHOWN ON S-GRT-2P AS DESCRIBED ON THE DRAWING.



MIN. DELINEATOR PLACEMENT
AT BRIDGE APPROACHES INSTALLED
ON GUARDRAIL POSTS

LEGEND	
	DELINEATOR ON GUARDRAIL POST
	DELINEATOR

GENERAL NOTES	
(A)	THIS DRAWING SHALL BE USED FOR BRIDGE ENDS OR RIGID CONCRETE BARRIER WALL ENDS ONLY. FOR OTHER HAZARDS, S-PL-1 SHALL BE USED TO DETERMINE LENGTH OF NEED FOR GUARDRAIL.
(B)	SEE S-GRC SERIES FOR DETAILS AND SPECIFICATIONS REGARDING INSTALLATION OF PROTECTIVE GUARDRAIL AT BRIDGE ENDS AND S-GRT SERIES FOR GUARDRAIL END TERMINAL DETAILS.
(C)	IF A FIELD EVALUATION DISCOVERS A SECONDARY HAZARD, THEN S-PL-1 SHALL BE USED TO DETERMINE LENGTH OF NEED.
(D)	AT LOCATIONS WHERE THE ABOVE SHOWN MINIMUM TRANSITION AND GUARDRAIL TERMINAL ANCHOR CANNOT BE INSTALLED DUE TO A SIDE ROAD OR DRIVEWAY, OTHER ALTERNATIVES SHALL BE CONSIDERED SUCH AS SHORT-RADIUS GUARDRAIL SYSTEM (S-GRS-7 & S-GRS-7A) OR INTRODUCING A NON-GATING ATTENUATOR.
(E)	SEE T-M-18 FOR FLEXIBLE DELINEATOR DETAILS. DELINEATORS PLACEMENT ON BRIDGE APPROACHES ARE AS SHOWN IN THIS DRAWING OR AS DIRECTED BY REGIONAL TRAFFIC ENGINEER. FOR ADDITIONAL INFORMATION SEE SECTION 3F OF THE MUTCD (CURRENT EDITION)

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED

STATE OF TENNESSEE
 STANDARD DRAWING
 DEPARTMENT OF TRANSPORTATION

SAFETY PLAN
 MINIMUM
 INSTALLATION
 AT BRIDGE
 ENDS

REV. 10-10-16: UPDATED REFERENCES TO OTHER STANDARD DRAWINGS. UPDATED LENGTH OF TYPE 38 TERMINAL AND MODIFIED PLAN VIEW FOR TYPE 38 TERMINAL.

REV. 06-28-19: UPDATED TO MASH GUARDRAIL ITEM NUMBERS. REDREW SHEET.

REV. 06-15-21: REVISED THE DRAWINGS. REMOVED DELINEATOR NOTES AND STEEL POST DETAIL. REVISED GENERAL NOTE (B) AND ADDED GENERAL NOTE (E).

REV. 03-01-23: REPLACED S-PL-2 WITH S-GRS-7 AND S-GRS-7A ON GENERAL NOTE (D).