

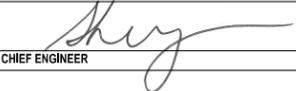
- NOTES:**
- 1). ALL W-BEAMS ARE 13'-6 $\frac{1}{2}$ " IN LENGTH.
 - 2). PLACE GUARDRAIL DELINEATORS IN ACCORDANCE WITH DETAIL B-13, SHEET 9.
 - 3). POSTS 1 THROUGH 6 ARE TO BE TYPE 31 LONG, WOOD BREAKAWAY POSTS. POST 7 IS TO BE A W6x9, 6'-0" STEEL POST.
 - 4). THE RAIL SHALL BE ATTACHED AT POSTS 1 THROUGH 6 WITH A $\frac{5}{8}$ " x 22" GUARDRAIL BOLT, STEEL WASHER, AND RECESS NUT.
 - 5). CULVERT HEADWALL SHALL NOT EXTEND MORE THAN 2" ABOVE GRADE.
 - 6). THERE SHALL BE A MINIMUM OF 12" FROM THE BACK OF POST TO THE CULVERT WINGWALLS.
 - 7). IF CURB IS USED, IT SHALL BE A MAX 2" HEIGHT WITHIN THE LIMIT OF PAYMENT OF THE GUARDRAIL OVER CULVERT.
 - 8). MASH COMPLIANT SYSTEM - FHWA ELIGIBILITY LETTER B-189




 ENGINEERING SUPPORT DATE 09/01/2020
RECOMMENDED

GUARDRAIL OVER CULVERTS, TYPE 1-31

STANDARD NO.	B-3 (2020)	SHT. 1	OF 3
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REVIEWED	 DEPUTY DIRECTOR - DESIGN DATE 09/01/2020
APPROVED	 CHIEF ENGINEER DATE 09/01/2020