

~NOTES~



~MAINTENANCE NOTES~

- ① TERMINAL SECTION NO. 2
- ② APPROX. QUANTITY PER LIN. FT. Z DIMENSION.
- ③ 6'-4" WHEN L= 5'-0" (Z= 20'-4")  
★ 11'-4" WHEN L= 10'-0" (Z= 15'-4")  
16'-4" WHEN L= 15'-0" (Z= 10'-4")  
21'-4" WHEN L= 20'-0" (Z= 5'-4")  
★ 10'-0" LENGTH IS USED MOST FREQUENTLY.
4. GUARDRAIL CONNECTOR TO BRIDGE END TYPE "D" SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH, AND SHALL INCLUDE TERMINAL SECTION NO. 2, EXTRA GUARDRAIL POST AND OFFSET BLOCKS, EXTRA GUARDRAIL, BRIDGE SIDEWALK RAMP (INCLUDING CLASS "A" CONCRETE, STEEL REINF. AND STRUCTURE EXCAVATION) ALL COMPLETELY INSTALLED.
5. THIS DRAWING DEPICTS GUARDRAIL CONNECTED TO A POST AT THE END OF THE BRIDGE. WHEN A BRIDGE WING EXTENDS BEYOND THE END OF THE BRIDGE, THE GUARDRAIL SHALL BE MOVED BACK AND CONNECTED IN A CORRESPONDING MANNER.
6. THE GUARDRAIL CONNECTOR TO BRIDGE END TYPE "D" SHALL BE APPLIED ON EACH END OF THE BRIDGE, WHERE A SIDEWALK EITHER EXISTS OR IS PROPOSED, ON THE STRUCTURE AND NOT ON THE ROADWAY. THIS IS ONLY APPLICABLE TO RURAL STRUCTURES THAT HAVE TWO DIRECTIONAL TRAFFIC WITH SIDEWALK.
7. SEE STANDARD DRAWING NO. **RBR-SERIES** (CURRENT EDITION) FOR ALL OTHER APPLICABLE MATERIAL AND CONSTRUCTION REQUIREMENTS.

BID ITEMS AND UNIT TO BID	
GUARDRAIL CONNECTOR TO BRIDGE END TY D	EACH
ISLAND INTEGRAL CURB (AS REQUIRED)	LF
DGA BASE (AS REQUIRED)	TON
CONCRETE-CLASS A (AS REQUIRED)	CUYD
CURB BOX INLET TYPE B (AS REQUIRED)	EACH

- ⑧ CONNECT GUARDRAIL TO BRIDGE END WITH :  
4- $\frac{7}{8}$ " (LTH. = "Z" PLUS 3" ) HEX HEAD BOLTS  
OR 4- $\frac{7}{8}$ " (LENGTH = "Z" PLUS 4") STEEL  
THREADED RODS WITH 4 NUTS FOR THE BOLTS AND 8 NUTS  
FOR THE RODS AND WITH 8 FLAT WASHERS FOR EITHER.  
FORM 1" HOLES FOR THE  $\frac{7}{8}$ " BOLTS WITH PLASTIC  
PIPE IN PROPOSED BRIDGE ENDS.  
DRILL 1" HOLES FOR THE  $\frac{7}{8}$ " BOLTS THROUGH EXISTING  
BRIDGE ENDS.  
BOTH THE  $\frac{7}{8}$ " BOLTS AND STEEL THREADED RODS SHALL  
HAVE A MINIMUM OF 50,000 LBS. TENSILE STRENGTH  
AT THEIR NARROWEST POINT.  
ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE  
WITH ASTM A153.

1. NOT FOR NEW CONSTRUCTION. ONLY USE FOR REPAIRING OR RESTORING EXISTING HARDWARE.
2. FOR NEW CONSTRUCTION, REFER TO **BHS-013** AND **BHS-014** FOR THRIE-BEAM CONNECTIONS.
3. USE 3500 PSI CONCRETE FOR REPAIRS TO EXISTING JERSEY SHAPES.

KENTUCKY DEPARTMENT OF HIGHWAYS	
GUARDRAIL CONNECTOR TO BRIDGE END TYPE "D" NOTES	
STANDARD DRAWING NO. RBC-004N	
SUBMITTED 	DATE 02-26-20
APPROVED 	DATE 02-26-20
ENGINEER	DATE