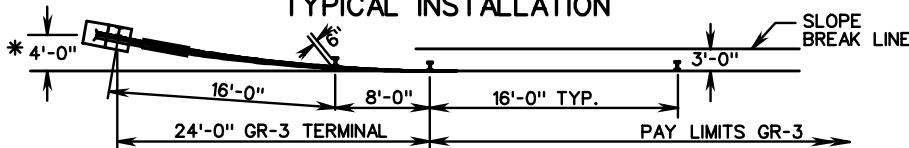


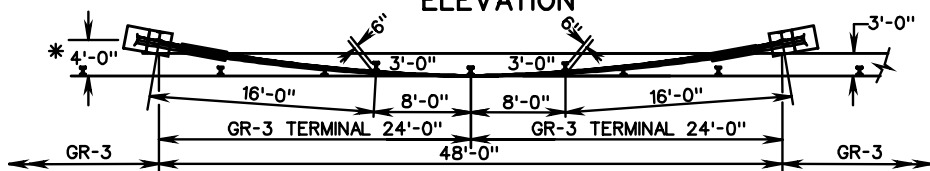
TYPICAL INSTALLATION



GUARDRAIL TERMINAL PLAN VIEW



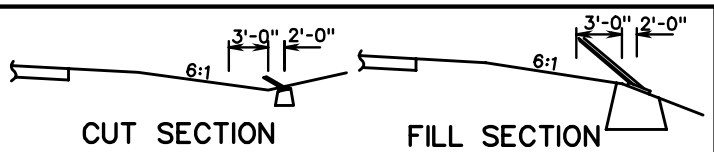
ELEVATION



INTERMEDIATE ANCHORAGE PLAN VIEW



ELEVATION



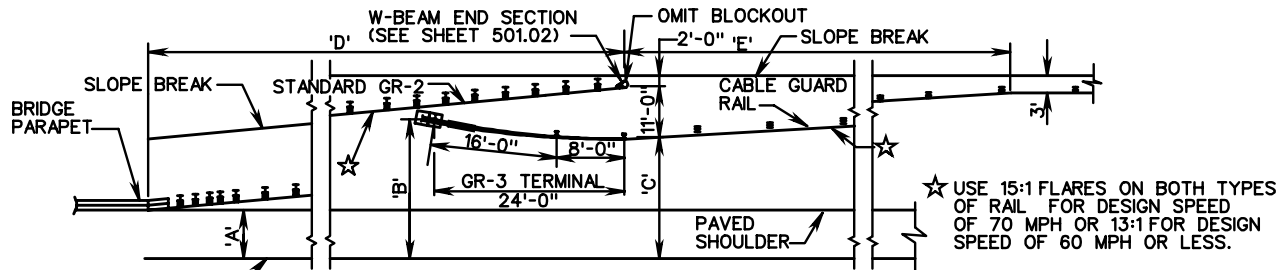
CUT SECTION

FILL SECTION

\* WHEN BURYING GR-3 CABLE GUARDRAIL IN THE BACKSLOPE, THE CONCRETE ANCHOR ASSEMBLY MUST BE PLACED AT A HEIGHT ON THE BACKSLOPE TO MAINTAIN THE 27" MIN./28" MAX. CABLE HEIGHT AT THE ANCHORAGE.

NOTES:

- FOR ARRANGEMENTS OF SPRING CABLE END ASSEMBLIES (COMPENSATING DEVICES) AND TURNBUCKLE CABLE END ASSEMBLIES, THE FOLLOWING CRITERIA SHALL APPLY:
- LENGTH OF CABLE RUNS:
  - TO 1000'-USE COMPENSATING DEVICE ON ONE END AND USE TURNBUCKLE ON THE OTHER END OF EACH INDIVIDUAL CABLE.
  - OVER 1000' TO 2000'-USE COMPENSATING DEVICE ON EACH END OF EACH INDIVIDUAL CABLE.
  - OVER 2000'-START NEW STRETCH BY INTERLACING AT LAST PARALLEL POST. SEE TYP. INSTALLATION.
- FITTINGS: ALL FITTINGS SHALL BE SO DESIGNED AND BE OF SUCH SECTION AS TO DEVELOP THE FULL STRENGTH OF A SINGLE CABLE OR CABLE ASSEMBLIES, AS THE CASE MAY BE.
  - SINGLE CABLE ANCHOR ASSEMBLY- MIN. TENSILE STRENGTH.....25,000 LBS.
  - THREE CABLE ANCHOR ASSEMBLY- MIN. TENSILE STRENGTH.....100,000 LBS.
  - ALL FITTINGS SHALL BE HOT DIPPED GALVANIZED.
- THE DYNAMIC DEFLECTION FOR STANDARD GR-3 IS 11 FEET.
- FOR ROCK INSTALLATION, 8"x24"x1/4" PLATE SHALL BE ELIMINATED. DRILL OR EXCAVATE HOLE FOR POST AND BACKFILL WITH CRUSHER RUN AGGREGATE TO LEVEL OF ROCK.
- 5/8" ANSIB18.2.2 HEX. BACKING NUT OR APPROVED SHOULDER MUST EQUAL BEARING AREA OF 5/16" STANDARD NUT.
- THE GUARDRAIL AND MEDIAN BARRIER COMPONENTS DEPICTED IN AASHTO-AGC-ARTBA "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE" MAY BE SUBSTITUTED IF INTERCHANGEABLE WITH THE STANDARDS FOR GUARDRAIL (GR) OR MEDIAN BARRIER (MB) AND APPROVED BY THE ENGINEER.



PLAN VIEW

METHOD OF TRANSITION FROM CABLE GUARDRAIL TO W-BEAM GUARDRAIL AT BRIDGE APPROACHES

RECOVERABLE AREA WIDTH	LT. OR RT. OF C	70 MPH D.S.				
		A	B	C	D	E
24'	12'	27'	26'	375'	150'	
24'	6'	27'	26'	465'	150'	
21'	12'	24'	23'	330'	150'	
21'	6'	24'	23'	420'	150'	

★ USE 15:1 FLARES ON BOTH TYPES OF RAIL FOR DESIGN SPEED OF 70 MPH OR 13:1 FOR DESIGN SPEED OF 60 MPH OR LESS.

**VDOT**  
ROAD AND BRIDGE STANDARDS

SHEET 1 OF 3      REVISION DATE

501.06

**CABLE GUARDRAIL**

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

221  
505