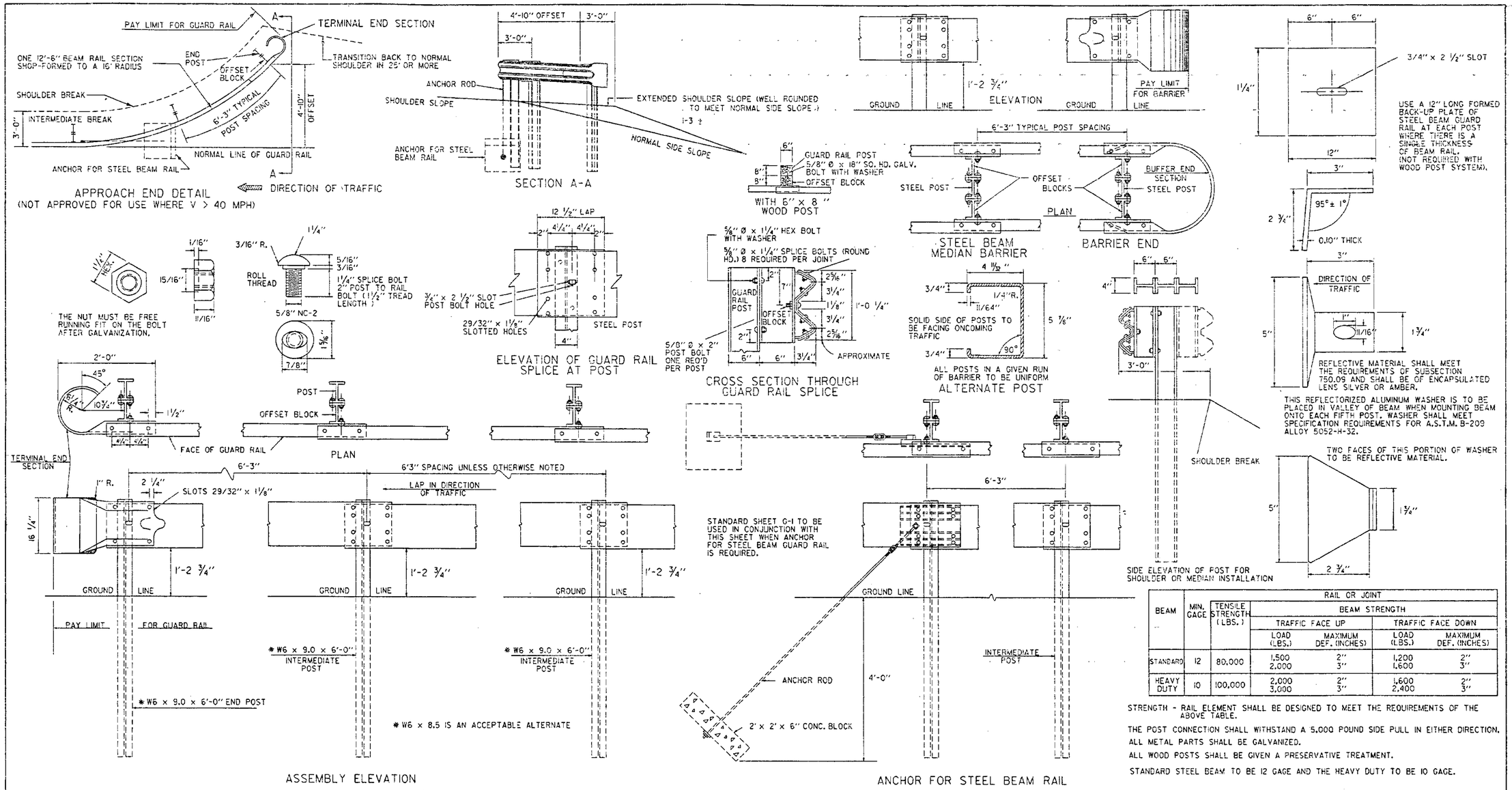


| BEAM | MIN. GAGE | TENSILE STRENGTH (LBS.) | RAIL OR JOINT BEAM STRENGTH | | | |
|---|---|---|---|---|---|---|
| | | | TRAFFIC FACE UP | | TRAFFIC FACE DOWN | |
| | | | LOAD (LBS.) | MAXIMUM DEF. (INCHES) | LOAD (LBS.) | MAXIMUM DEF. (INCHES) |
| STANDARD | 12 | 80,000 | 1,500<br>2,000 | 2"<br>3" | 1,200<br>1,600 | 2"<br>3" |
| HEAVY DUTY | 10 | 100,000 | 2,000<br>3,000 | 2"<br>3" | 1,600<br>2,400 | 2"<br>3" |

STRENGTH - RAIL ELEMENT SHALL BE DESIGNED TO MEET THE REQUIREMENTS OF THE ABOVE TABLE.

THE POST CONNECTION SHALL WITHSTAND A 5,000 POUND SIDE PULL IN EITHER DIRECTION.

ALL METAL PARTS SHALL BE GALVANIZED.

ALL WOOD POSTS SHALL BE GIVEN A PRESERVATIVE TREATMENT.

STANDARD STEEL BEAM TO BE 12 GAGE AND THE HEAVY DUTY TO BE 10 GAGE.

REVISIONS AND CORRECTIONS

MAY 6, 1976 - ORIGINAL APPROVAL DATE
SEP. 10, 1976 - MINIMUM LENGTH & ADVANCE OF NEED NOTES REMOVED
MAR. 2, 1977 - ROUND WOOD POSTS REMOVED
SEPT. 12, 1977 - REFERENCE TO ROUND WOOD POSTS REMOVED
MAY 29, 1979 - NOTE ON REFLECTIVE MATERIAL CHANGED
APRIL 28, 1980 - APPROACH END DETAILS REDRAWN
DEC. 16, 1980 - INCREASED SHOULDER WIDENING FOR GUARD RAIL
JUNE 5, 1984 - POST SIZE AND BACK UP PLATE NOTE CHANGED
DEC. 21, 1984 - REMOVED POST WASHER
OCT. 31, 1985 - REVISED TO CONFORM TO 1986 SPECIFICATIONS
JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

APPROVED

APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION. FHWA FINAL APPROVAL PENDING.

Gordon R. MacArthur PE
DIRECTOR OF ENGINEERING

Robert M. Murphy PE
DESIGN ENGINEER

# STEEL BEAM GUARD RAIL
# HEAVY DUTY STEEL BEAM GUARD RAIL
# STEEL BEAM MEDIAN BARRIER
# ANCHOR FOR STEEL BEAM RAIL

VERMONT AGENCY OF TRANSPORTATION

STANDARD
G-1d