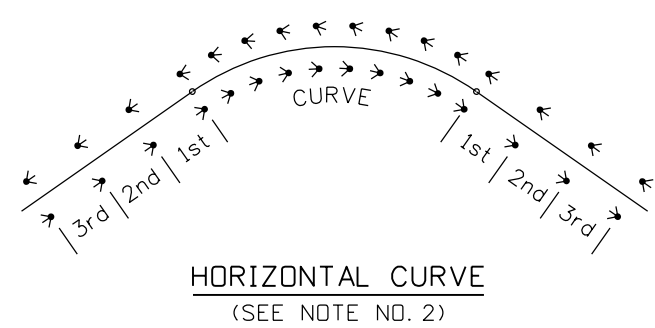
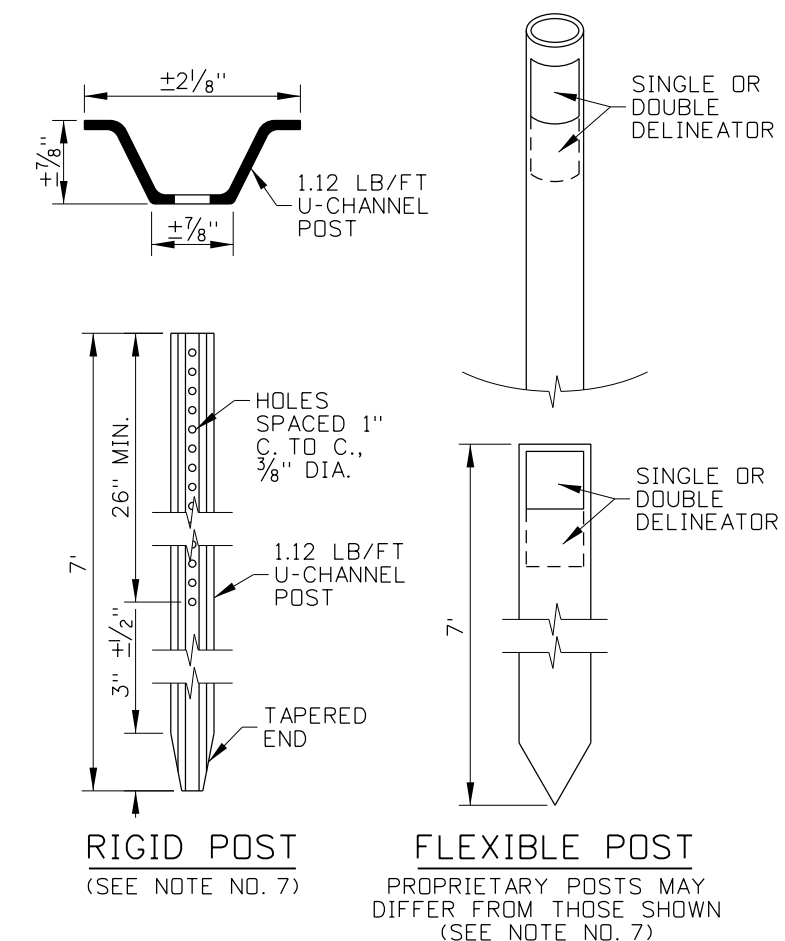


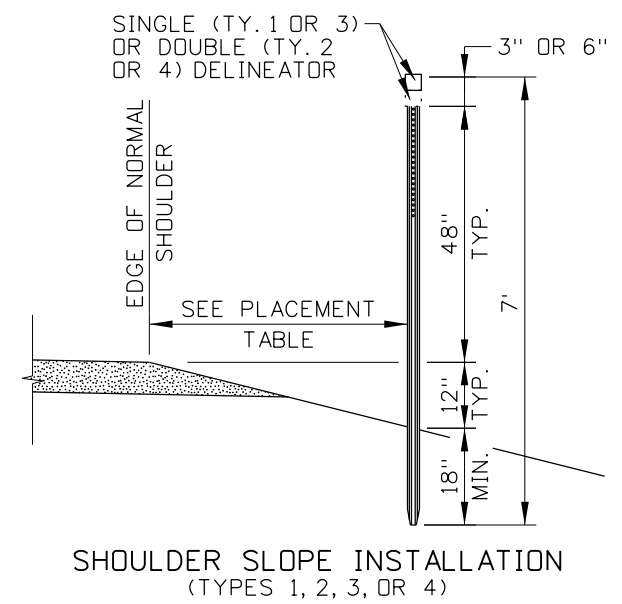
DELINEATOR TYPES
 TYPE 9 NOT SHOWN
 (SEE NOTE NO. 9)



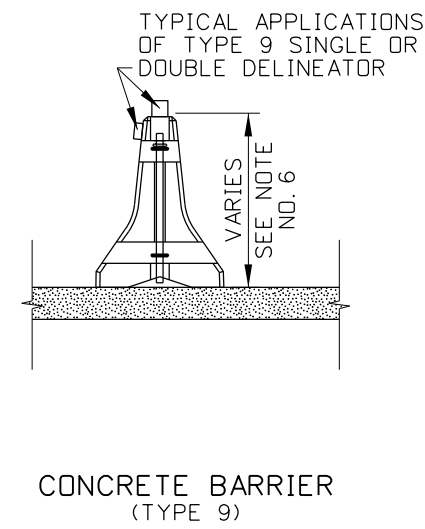
HORIZONTAL CURVE
 (SEE NOTE NO. 2)

| HORIZONTAL CURVE SPACING TABLE | | | | |
|--------------------------------|-------------------------------------|-----------------------------|-----------------------------|-----------------------------|
| RADIUS OF CURVE (FEET) | APPROXIMATE SPACING ON CURVE (FEET) | 1st SPACE FROM CURVE (FEET) | 2nd SPACE FROM CURVE (FEET) | 3rd SPACE FROM CURVE (FEET) |
| 50 | 20 | 40 | 60 | 120 |
| 115 | 25 | 50 | 75 | 150 |
| 180 | 35 | 70 | 105 | 210 |
| 250 | 40 | 80 | 120 | 240 |
| 300 | 50 | 100 | 150 | 300 |
| 400 | 55 | 110 | 165 | 300 |
| 500 | 65 | 130 | 195 | 300 |
| 600 | 70 | 140 | 210 | 300 |
| 700 | 75 | 150 | 225 | 300 |
| 800 | 80 | 160 | 240 | 300 |
| 900 | 85 | 170 | 255 | 300 |
| 1,000 | 90 | 180 | 270 | 300 |
| 1,500 | 115 | 230 | 300 | 300 |
| 2,500 | 150 | 300 | 300 | 300 |
| 5,000 | 210 | 300 | 300 | 300 |
| 10,000 | 300 | 300 | 300 | 300 |
| > 10,000 | 528 | 528 | 528 | 528 |

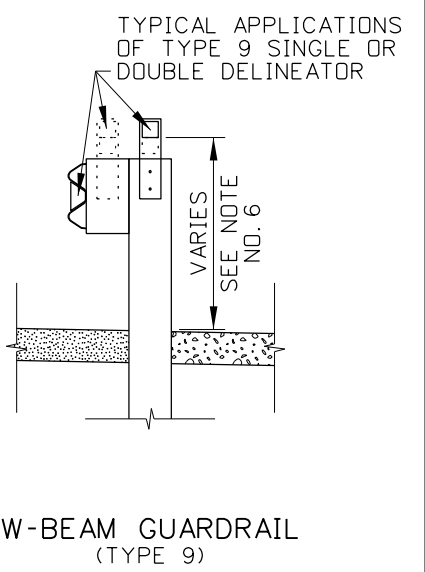
| PLACEMENT TABLE | |
|-------------------------------|----------|
| SHOULDER TYPE | OFFSET |
| 2:1 SLOPE | 2' |
| 4:1 SLOPE | 4' |
| 6:1 OR FLATTER | 6' TO 8' |
| CURB SECTION | 6' TO 8' |
| GUARDRAIL OR CONCRETE BARRIER | VARIES |



SHOULDER SLOPE INSTALLATION
 (TYPES 1, 2, 3, OR 4)



CONCRETE BARRIER
 (TYPE 9)



W-BEAM GUARDRAIL
 (TYPE 9)

DELINEATOR INSTALLATIONS

NOTES

1. MATCH THE DELINEATOR COLOR TO THE ADJACENT PAVEMENT MARKINGS. USE RED DELINEATORS ON TRUCK ESCAPE RAMPS OR ON THE REVERSE SIDE OF A DELINEATOR TO INDICATE TRAVEL IN THE WRONG DIRECTION ON DIVIDED OR ONE-WAY HIGHWAYS.
2. SPACE DELINEATORS 528 FEET (0.1 MI.) APART ON MAINLINE TANGENT SECTIONS. SPACE DELINEATORS ON CURVES IN ACCORDANCE WITH THE HORIZONTAL CURVE SPACING TABLE. SPACE DELINEATORS 100 FEET APART ON RAMP TANGENT SECTIONS. SPACE RED DELINEATORS ON TRUCK ESCAPE RAMPS AT 50 FOOT INTERVALS.
3. DELINEATE ACCELERATION AND DECELERATION LANES WITH DOUBLE DELINEATORS SPACED AT 100 FOOT INTERVALS.
4. DELINEATE GUARDRAIL AND CONCRETE BARRIERS. SPACING MAY BE REDUCED ON GUARDRAIL AND CONCRETE BARRIER TO FORM A CONTINUOUS OR NEARLY CONTINUOUS "RIBBON" OF DELINEATION.
5. WHEN UNIFORM SPACING IS INTERRUPTED BY DRIVEWAYS, INTERSECTIONS, OR OTHER FEATURES, RELOCATE THE DELINEATOR NOT FURTHER THAN ONE QUARTER OF THE UNIFORM SPACING. DELINEATORS CAN BE OMITTED WHEN STILL FALLING WITHIN THESE FEATURES.
6. MEASURE DELINEATOR HEIGHT VERTICALLY FROM THE BOTTOM OF THE LOWEST REFLECTIVE DEVICE TO THE ELEVATION OF THE EDGE OF NORMAL SHOULDER. DELINEATORS ATTACHED TO GUARDRAIL, GUARDRAIL POSTS, OR CONCRETE BARRIER CAN BE INSTALLED LOWER THAN 48".
7. USE RIGID OR FLEXIBLE POSTS FOR TYPES 1, 2, 3, AND 4. SEE PROJECT PLANS FOR SPECIFIC INSTRUCTIONS.
8. ON GUARDRAIL AND CONCRETE BARRIERS, USE TYPE 9 DELINEATORS OR TYPE 1, 2, 3, OR 4 DELINEATORS BEHIND THE BARRIER.
9. TYPE 9 DELINEATORS VARY IN SHAPE AND CAN BE ATTACHED TO THE TOP OR SIDE OF W-BEAM GUARDRAIL, GUARDRAIL POSTS, OR CONCRETE BARRIER. IF "BUTTERFLY" STYLE GUARDRAIL DELINEATORS ARE USED, ENSURE THE DELINEATORS ARE PLASTIC.
10. DRAWINGS NOT TO SCALE.

| REVISIONS | | | | | | | |
|-----------|-------|-----|-----|-------|-----|-----|------|
| NO. | DATE | BY | NO. | DATE | BY | NO. | DATE |
| 1 | 06-05 | MSM | 6 | 05-18 | RDL | | |
| 2 | 11-11 | TEM | 7 | 03-21 | RDL | | |
| 3 | 04-14 | RDL | 8 | 02-22 | RDL | | |
| 4 | 03-15 | PJF | | | | | |
| 5 | 05-16 | RDL | | | | | |

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
 CADD FILE NAME: 617-1_0422.dgn
 DRAWING DATE: DECEMBER, 2002

IDAHO TRANSPORTATION DEPARTMENT



BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN
 DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING
DELINEATORS

English
 STANDARD DRAWING NO.
617-1
 SHEET 1 OF 1

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho