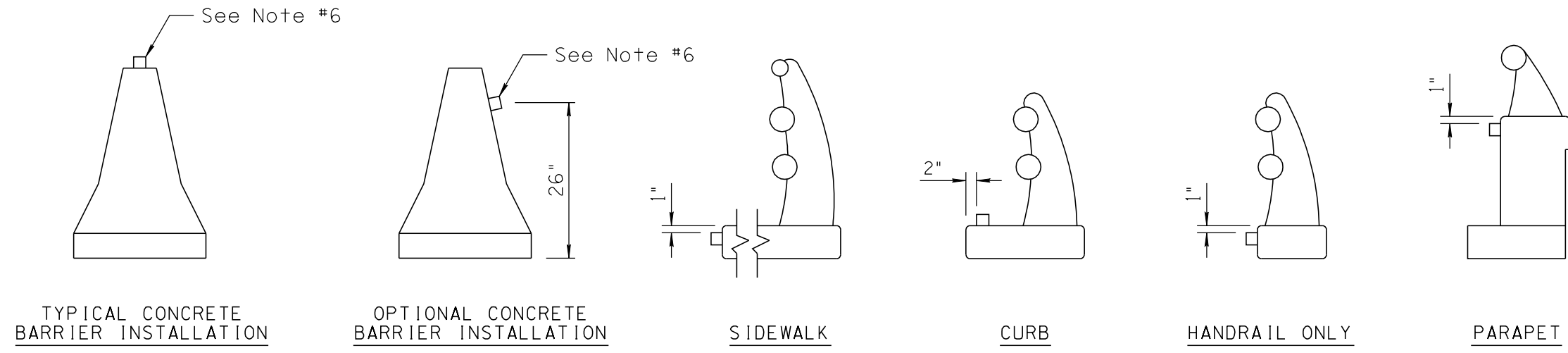
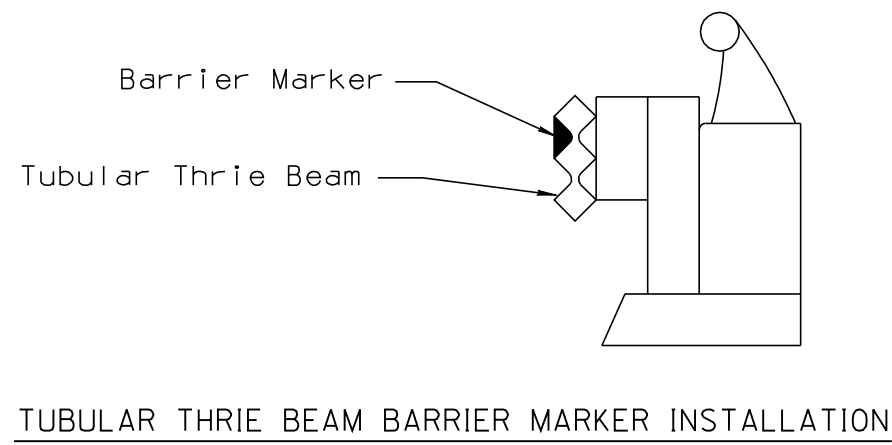


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|----|--|------|----------|
| NO | DESCRIPTION OF REVISIONS                         | DATE | MADE BY  |
| 1  | RE-ISSUE   | 2/02 | L. LOPEZ |
| 2  | DIMENSIONS AND TEXT REVISIONS                    | 5/03 | L. LOPEZ |
| 3  | REVISED NOTES, CHANGE TEXT CASE, UPDATED BORDER. |      |          |
| 4  |  |      |          |
|    | DESCRIPTION OF REVISIONS                         | DATE | MADE BY  |
|    |  | 6/14 | L. LOPEZ |



CONCRETE BARRIER MARKER INSTALLATION



NOTES:

1. Marker spacing should be 20 ft on curved sections and ramps, and 40 ft on tangent sections; however, a minimum of three markers should be continuously visible. A minimum of three should be installed on each bridge or permanent concrete barrier.
2. Single face white markers (BM-1) are used on bridges and concrete barriers on the right side of one-way and two-way roadways and ramps.
3. Single face yellow markers (BM-2) are used on the left side of one-way roadways and ramps.
4. Two sided yellow markers (BM-3) are used on bridge and concrete barrier separating two directions of a divided highway.
5. Markers may be installed on the side of a concrete barrier where the top surface is not wide enough to allow their installation, or where the top surface is taller than 42 inches, or where another object (such as a glare screen occupies the top of the barrier).
6. The front surface of markers shall be installed facing oncoming traffic.
7. Concrete surfaces shall be wire brushed or sand blasted, and treated according to the manufacturer's recommendations prior to installation.
8. For temporary concrete barrier details, see Std. Dwg. C-3. BM-1 (white), BM-2 (yellow) or BM-3 (2 sided yellow) barrier markers conforming to Std. Dwg. M-32 should be installed at 25 ft spacing on temporary barrier. The Contractor may install the barrier markers on the side of the barrier if the markers cannot be installed on the top of the barrier. The installed price for the markers shall be considered part of the barrier cost.
9. Tubular thrie beam barrier markers may be used on guardrail when specified; however, they do not replace delineators.

NOT TO SCALE

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|---------------------------|--|---------------------|
| DESIGN APPROVED           | ARIZONA DEPARTMENT OF TRANSPORTATION<br>INTERMODAL TRANSPORTATION DIVISION<br>TRAFFIC SIGNING & MARKING<br>STANDARD DRAWINGS | REVISION<br>6/14    |
| <b>SIGNATURES</b>         |  | DRAWING NO.<br>M-33 |
| APPROVED FOR DISTRIBUTION | BRIDGE AND BARRIER<br>MARKER PLACEMENT AND<br>INSTALLATION DETAILS   | SHEET NO.<br>1 of 1 |
| <b>ON FILE</b>            |  |                     |