NOTES
1. WASHERS SHALL BE FORGED AS AN INTEGRAL PART OF THE PIN OR SHALE BE WELDED AS SHOWN.
2. PINS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
3. IF AN ALTERNATIVE TOP CONFIGURATION IS USED, FOR MOUNTING, THE TOP PIN SHALL BE PIERCED. PINS SHALL CONFORM TO CRITICAL DIMENSIONS (PIN LENGTH, DIAMETER).
4. PINS SHALL CONFORM TO ASTM A442.
5. APPROVED NON-SHRINK GROUT SHALL BE USED FOR DIAGNOSIS OVER ALL PINS, AND DIAGNOSIS OF SCULPTURES.
6. JOINTS BETWEEN CAST-IN-PLACE GUIDING, TYPE 7 AND PERMANENT INSTALLATION PROJECT TYPE 3 CONCRETE BARRIER SHALL INCLUDE ALL SCULPTURES AND LOOP IN THE CAST-IN-PLACE END, ALONG WITH THE PIN TO COMPLETE THE TYPE 7 CONCRETE BARRIER JOINT.

DETAILS FOR PIN AND LOOP CONNECTION

Connecting Pin Detail

Alternative Pin Detail

1. 1/2" DIA. PIN (SEE NOTE 2)
2. 1" x 8 UNC
3. 3/8" DIA. PIN (SEE NOTE 2)
4. BOTTOM 1/2" MAY BE BORED TO FACILITATE PLACEMENT

1/2" CLEARANCE
1/4" CLEARANCE
1/4" CLEARANCE
1/8" CHAMFER
1/4" CHAMFER

1/4" CLEARANCE
1/4" CLEARANCE
1/8" CHAMFER
1/8" CHAMFER

1/2" DIA. LOOP PIN (SEE SHEET 1 FOR DETAILS)
1/4" DIA. PIN (SEE SHEET 1 FOR DETAILS)

PLAN
ELEVATION
FOR DETAILS NOT SHOWN, SEE SECTION VIEWS A-A, B-B, AND C-C ON SHEET 1
FOR DETAILS NOT SHOWN, SEE SECTION VIEWS A-A, B-B, AND C-C ON SHEET 1

JOINT STYLE
1. A 1 IN. BY 12 IN. TAPER IS REQUIRED AT THE BOTTOM OF ALL FOUR CORNERS OF THE BARRIER SECTIONS TO ELIMINATE DRAINING SNOW FROM BEAKS. THE TAPER IS OPTIMAL ON PERMANENT INSTALLATIONS.
2. THE HORIZONTAL SLOTS SHALL BE 1/4 IN. IN DEPTH AT THE CENTER OF THE BARREL AND MAY DECREASE IN DEPTH AT THE EDGE OF THE BARREL DUE TO THE 2X1 TAPER.
NOTES

1. SEE SHEET 1 FOR REINFORCEMENT AND OTHER DETAILS NOT SHOWN HERE.
2. PINS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
4. AN OPTIONAL 5 IN. DIAMETER TAPERED END PIN MAY BE PROVIDED ON THE STABILIZATION PIN TO FACILITATE GRADING.

ROAD SURFACE

<table>
<thead>
<tr>
<th>PIN LENGTH</th>
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<tbody>
<tr>
<td>CONCRETE</td>
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<tr>
<td>MIN</td>
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<tr>
<td>SOIL</td>
</tr>
</tbody>
</table>

TABLE OF STABILIZATION PIN LENGTHS

STABILIZATION PIN
(ASME A 36 STEEL)

ELEVATION VIEW WITH PINS

DETAILS FOR STABILIZATION OF PERMANENT
OR TEMPORARY PINNED PRECAST TYPE 7 CONCRETE BARRIER

PLAN VIEW OF S BAR ENDS

1 1/2" BAR AT EACH END.