SECTION A-A

REINFORCING STEEL LIST

<table>
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<tr>
<th>MARK</th>
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<tr>
<td>1650</td>
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</tr>
<tr>
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<td>2' x 12'-0&quot;</td>
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</tr>
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<td>1680</td>
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<td>STR</td>
</tr>
<tr>
<td>1700</td>
<td>1'-0&quot;</td>
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</table>

BENDING DIAGRAMS

1. B = APPROACH SLAB THICKNESS MINUS 3"
PLAN VIEW
57° SINGLE SLOPE CONCRETE MEDIAN BRIDGE RAILING TYPE BI WITH TYPICAL ABUTMENT SHOWN.
FORWARD ABUTMENT SHOWN, REAR ABUTMENT SIMILAR, BUT OPPOSITE HAND.

SECTION A-A
REINFORCING STEEL LIST

<table>
<thead>
<tr>
<th>MARK</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>BENDING DIAGRAMS</th>
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</thead>
<tbody>
<tr>
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<td>Y401</td>
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NOTES:
1. FOR 57° SINGLE SLOPE CONCRETE MEDIAN BRIDGE RAILING, PROJECT PLANS SHALL INCLUDE PLAN VIEW, ELEVATION VIEW, SECTIONS, REINFORCING MARKS, REINFORCING BENDING DIAGRAMS, AND REINFORCING WEIGHTS.
2. FOR THE ENTIRE LENGTH OF SINGLE SLOPE CONCRETE MEDIAN BRIDGE RAILINGS, PROJECT PLANS SHALL SHOW THE LOCATION OF CONTRACT JOINTS, SPACED AT 20'-0" MAX.
3. CONTRACTION JOINT IS NOT REQUIRED WITHIN THE APPROACH SLAB MEDIAN BARRIER SECTIONS.
4. PLACE #6 EPOXY COATED SOWA BARS Y401, BARS, 0'-0" LONG, SPACED AT 45'-0" MAXIMUM, AT STaggerED LOCATIONS WITHIN THE UNREINFORCED MEDIAN BARRIER.
5. SEE APPROPRIATE STANDARD BRIDGE DRAWING FOR ABUTMENT DETAILS.
6. FOR ROADWAY SINGLE SLOPE BARRIER, SEE STD. ROADWAY CONSTR. DWS. RM-4.3 THROUGH RM-4.5.
7. FOR GENERAL NOTES, SEE SHEET REV.

SECTION 0-B
REINFORCED CONCRETE DECK ON STEEL OR PRESTRESSED CONCRETE I-BEAMS/GIRDERS (BEAMS/GIRDERS NOT SHOWN)

SECTION C-C
REINFORCED CONCRETE DECK ON STEEL OR PRESTRESSED CONCRETE I-BEAMS/GIRDERS (BEAMS/GIRDERS NOT SHOWN)
NOTES:
1. For the entire length of single slope concrete median bridge railings, project plans shall show the locations of deflection joints.
2. Deflection joint spacing shall not exceed 6'-0" on centers. For continuous structures, the deflection joints within the dead load can follow the negative moment regions over full bridge length shall be spaced not less than 5'-0" nor more than 7'-0" on centers.
3. Paint for 1/2" dia. glass fiber reinforced polymer (GFRP) stiffening reinforcement shall not be included with Contract Price for Item 509 - Epoxy coated reinforcing steel.
4. Limits of sawcut is shown in detail A, the 4" sawcut depth shown in detail A is the minimum required. However, the contractor has an option to perform full depth sawcut.

**Design Criteria:**
- 57° single slope concrete median bridge railings, Type B in meet the requirements of NCHRP 350 Test Level 3 and "Kumho T-LF3 Bridge Design Specifications", 2002.
- 57° single slope back-to-back concrete median bridge railings meet the requirements of NCHRP 350 Test Level 5 and "Kumho T-LF3 Bridge Design Specifications", 2002.

**Design Data:**
- Concrete = Compressive Strength = 4.5ksi, Reinforcing Steel = Minimum Yield Strength = 60 ksi
- Area of 57° single slope concrete median bridge railing is shown on sheets THRU.

**Contractions for 57° Single Slope Unreinforced Concrete Median Bridge Railings:**
- See Std. roadway const rds. M,3.3 through M,6.5 for notes.

**Deflection Joints for 57° Single Slope Back-to-Back Reinforced Concrete Median Bridge Railings:**
- Sawcut 5/8" inch deep deflection joints along the perimeter of the median bridge railing when the concrete is still green or as soon as the saw can be operated without damaging the concrete.

**Deflection Joint Design for 57° Single Slope Back-to-Back Concrete Median Bridge Railings:**
- SEE SHEETS 113 AND 114

**MAXIMUM SPACING OF VERTICAL REINFORCING BARS:**
- The maximum spacing of vertical reinforcing bars for the 57° single slope concrete median bridge railing type BI shall be 3'-6".

**MINIMUM EMBREMENT OF VERTICAL REINFORCING BARS:**
- If the minimum embedment shown for the vertical reinforcing bars into the bridge deck is not met, then the designer shall calculate the required embedment according to section 13 of the "Kumho T-LF3 Bridge Design Specifications" adopted by the American Association of State Highway and Transportation Officials.