NOTES

1. For typical rail element and post details not shown on this plan refer to Standard Plans C-20.10 and C-1b.

2. For additional details not shown, see Sheet 2 of this Plan.

3. Fasten the Anchor Cable using two 1" (in) nuts and washer, at both ends of cable. Outside nut shall be torqued against inside nut a minimum of 100 ft.-lbs.

4. It is permissible to fabricate the anchor plate from 1/4" (in) thick plates welded to equal strength and dimensions as shown.

5. Eight 5/8" x 1 1/2" (in) machine bolts with hex nut and washer. Place washer on face side of rail.

6. Galvanizing of Anchor metal components shall be in accordance with Standard Specification Section 9-16.3(5).

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**BEAM GUARDRAIL TYPE 31 - PAY LIMIT**

**BEAM GUARDRAIL ANCHOR TYPE 11 - PAY LIMIT**

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**ELEVATION VIEW**

- **ANCHOR PLATE**
- **ANCHOR RAIL ELEMENT**
- **ANCHOR CABLE ASSEMBLY**
- **STRUT AND YOKE ASSEMBLY**
- **FOUNDATION TUBE (TYPICAL)**

**PLAN VIEW**

- **LENGTH OF NEED POINT**
- **WOOD BREAKAWAY POST (INSERTED INTO FOUNDATION TUBE - SEE NOTE 2)**
- **ANCHOR BRACKET ASSEMBLY**
- **STRUT AND YOKE ASSEMBLY**

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**Detail A**

- **EIGHT - 5/8" x 1 1/2" (IN) BOLTS W/ HEX NUTS AND WASHERS (SEE NOTE 3)**
- **TWO - 1" DIA. HEX NUTS & WASHER (SEE NOTE 3)**

**Detail B**

- **5 1/2" x 7 1/2" WOOD BREAKAWAY POST**
- **2 1/2" DIAMETER BREAKAWAY HOLE THROUGH WOOD POST & 5/8" x 1 1/2" (IN) LONG BOLT & NUT WITH ROUND WASHER (ASTM A307)**

**Detail C**

- **TWO - 15/32 GALVANIZED RAIL (TO PREVENT PLATE ROTATION)**
- **2" DIAMETER HOLE THRU FOUNDATION TUBE & 7/8" (IN) LONG HEX BOLT & NUT WITH ROUND WASHERS (ASTM A307)**

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**Sheet 1 of 2 Sheets**

**APPROVED FOR PUBLICATION**

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**STATE DESIGN ENGINEER**

Mark Gaines (Aug 22, 2022)