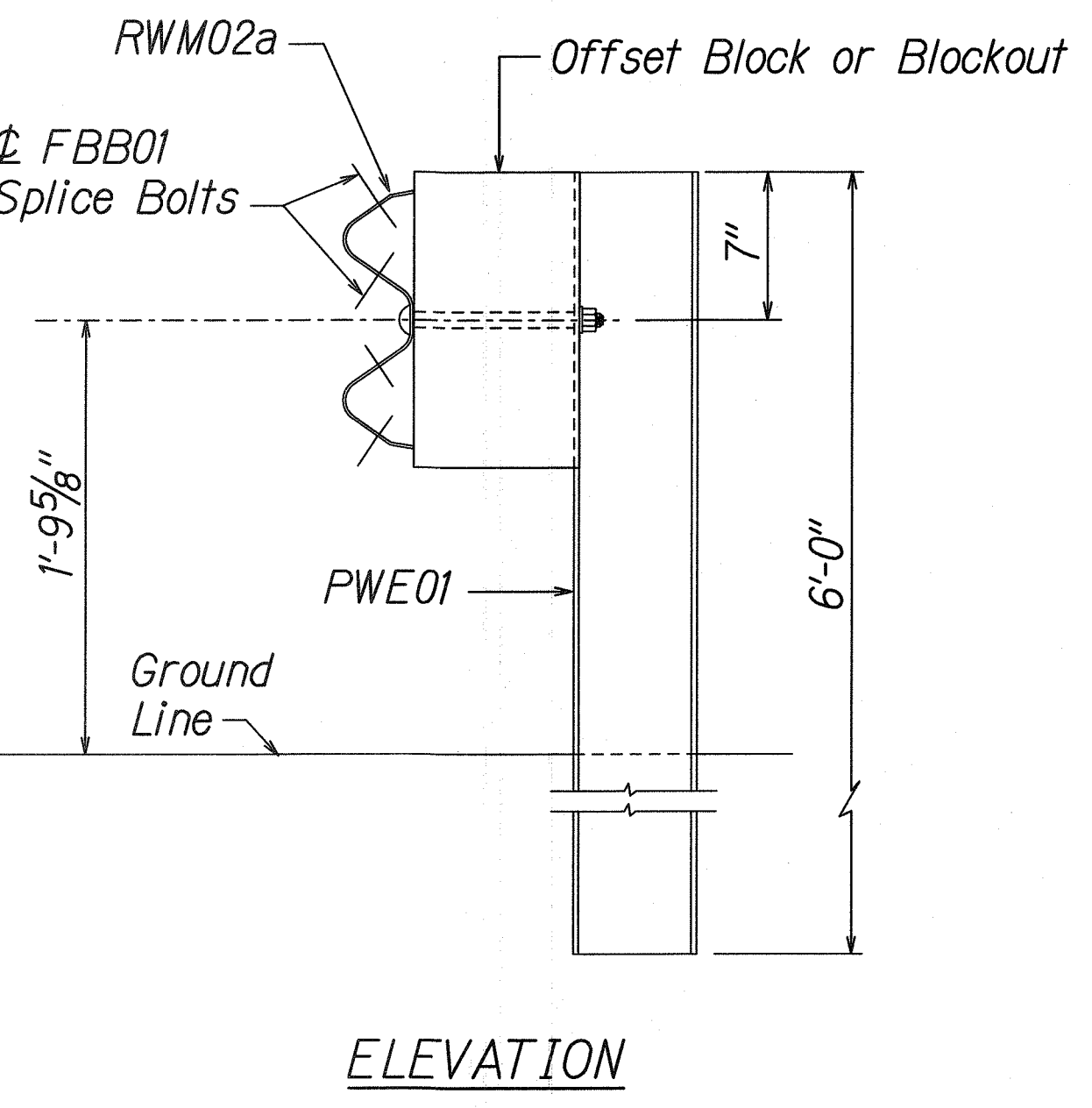
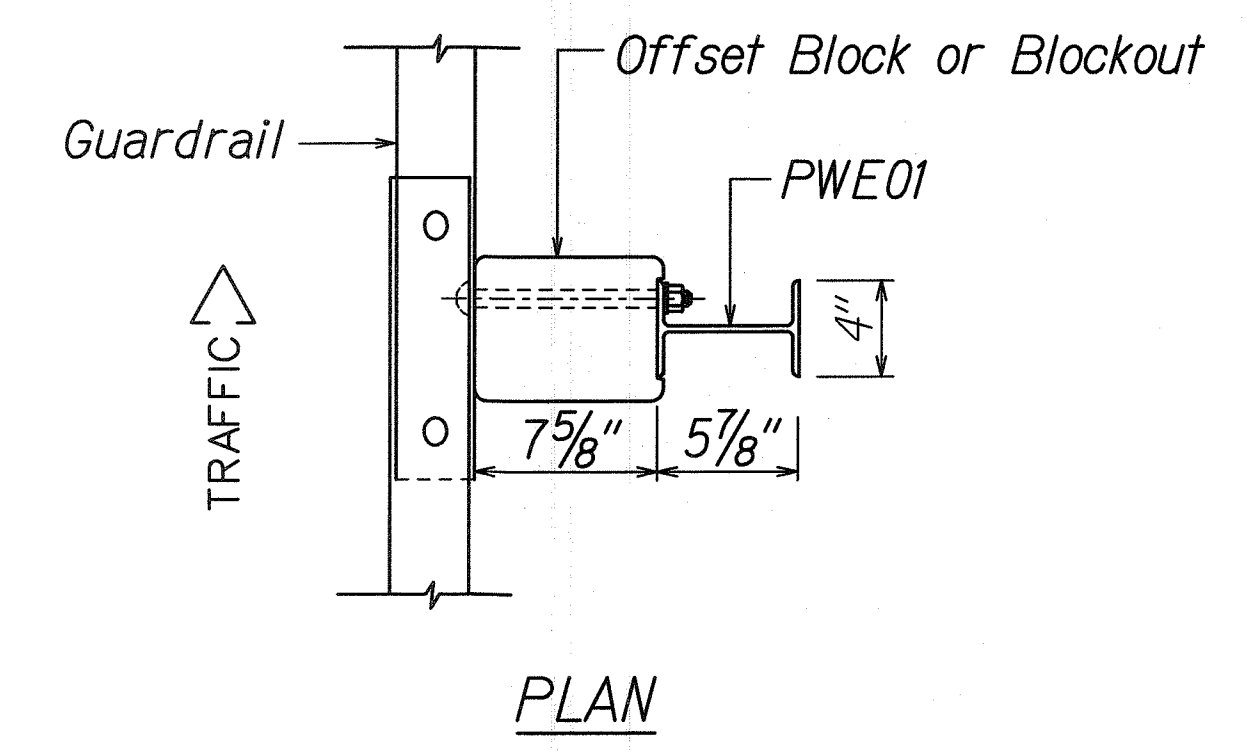
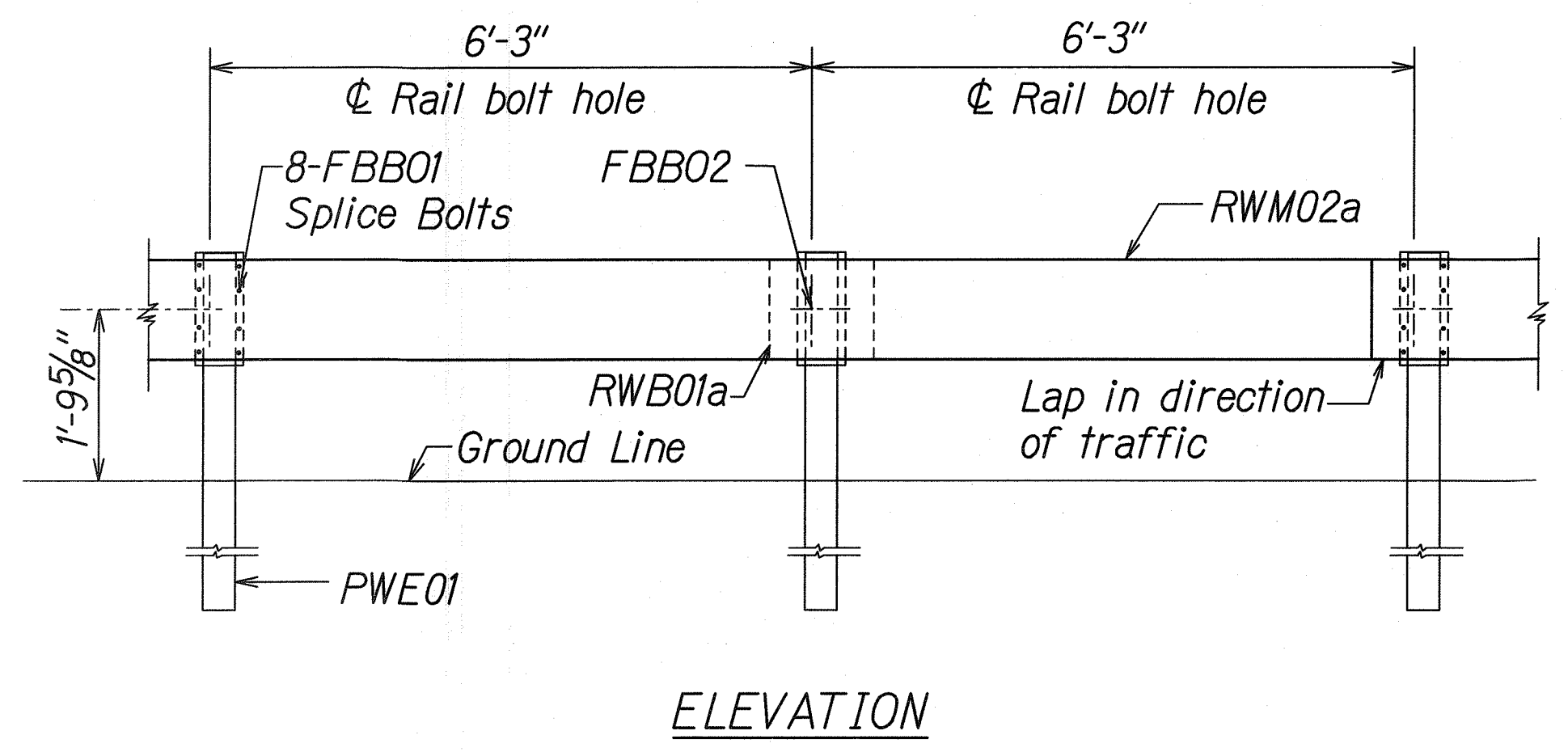


| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 61C-01-04 | 2004        | 78        | 91           |

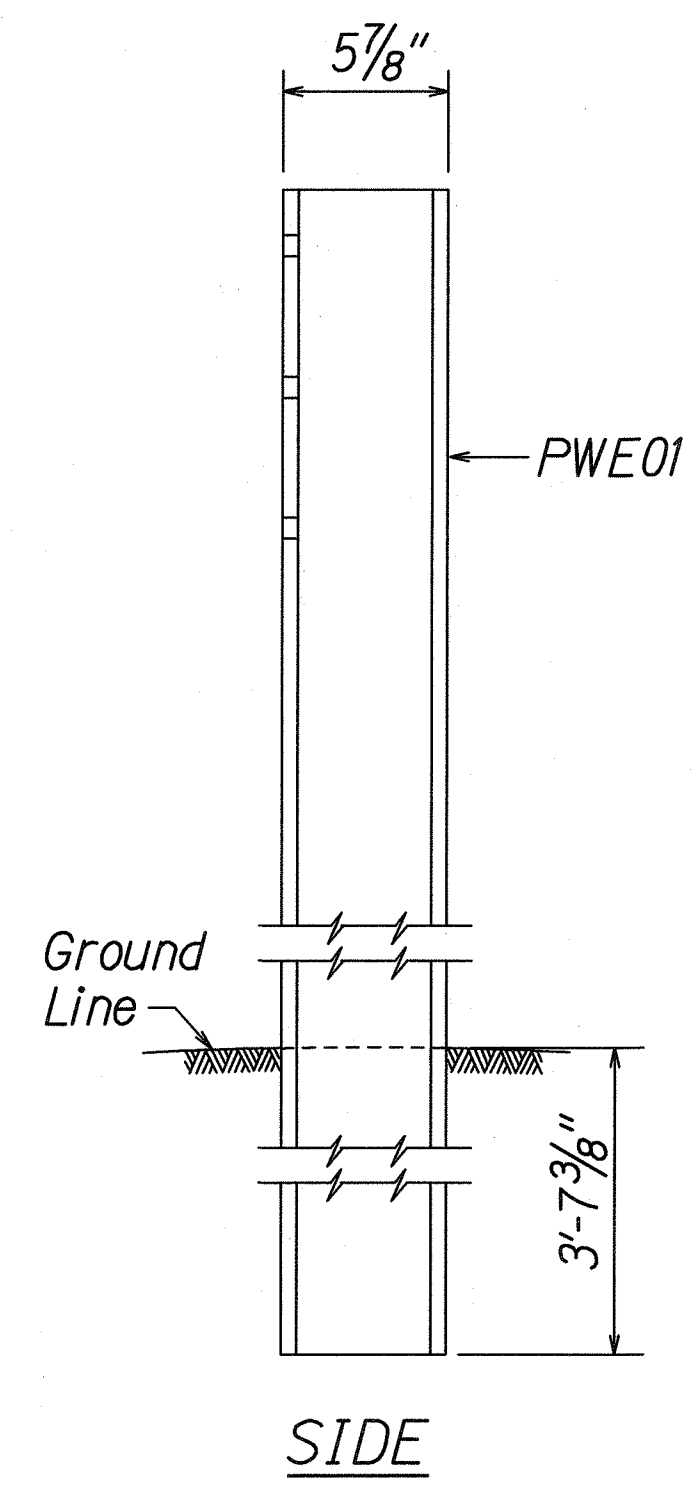


**STRONG POST W-BEAM GUARDRAIL (SGR04a)**

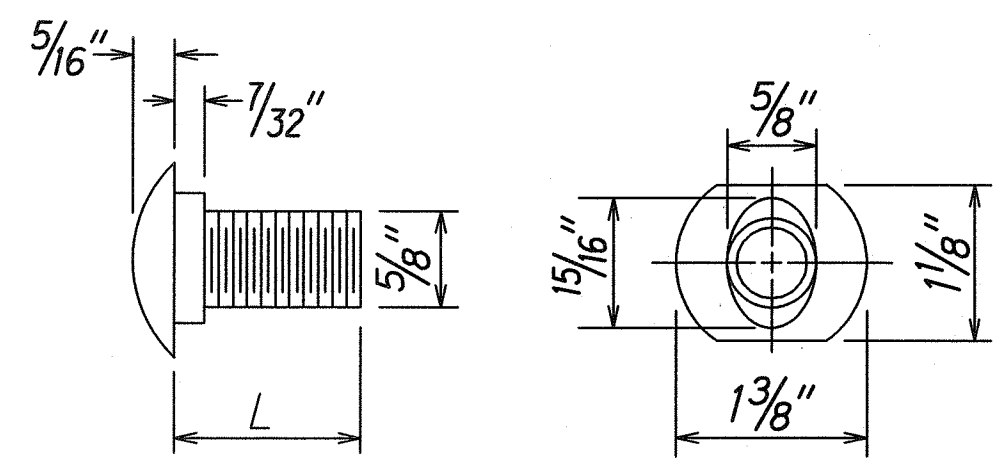
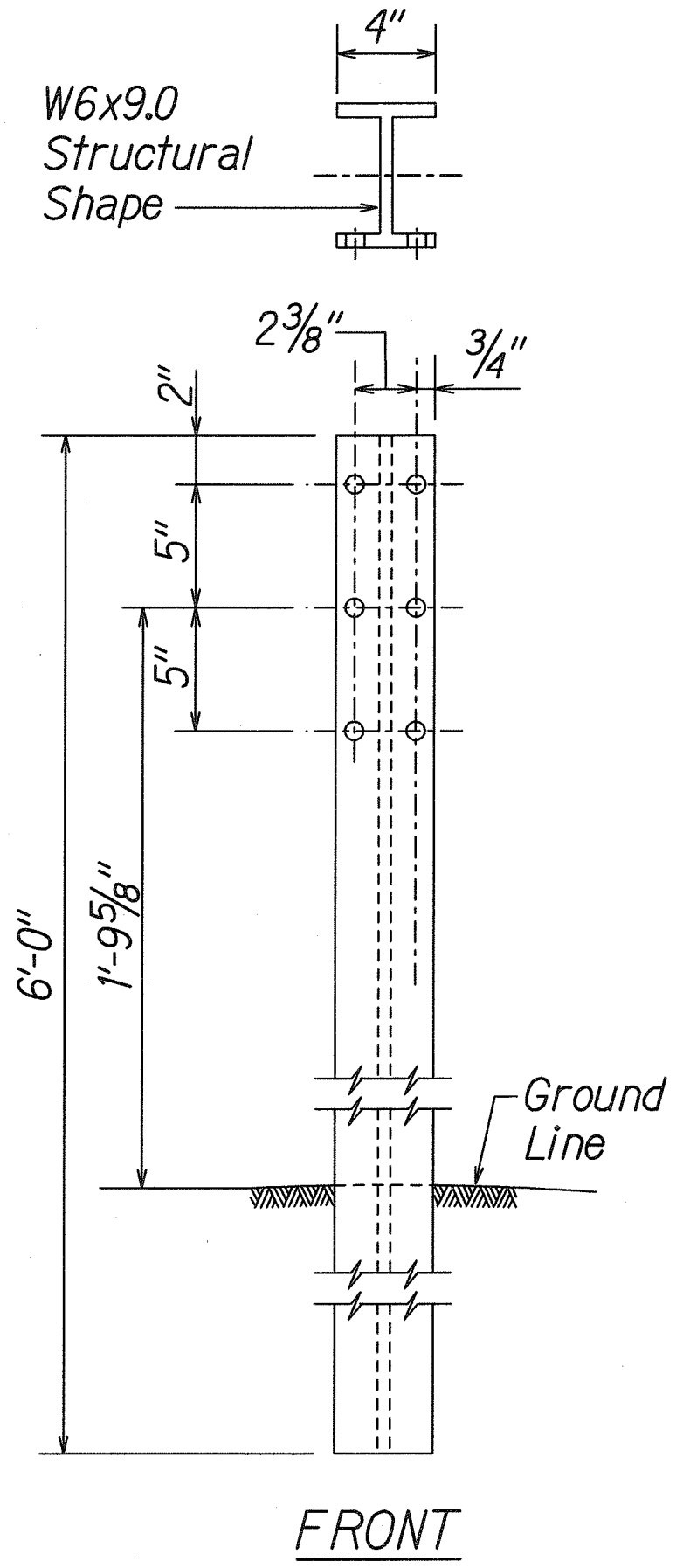


**STRONG POST W-BEAM GUARDRAIL WITH RECYCLED OFFSET BLOCK OR PLASTIC BLOCKOUT**

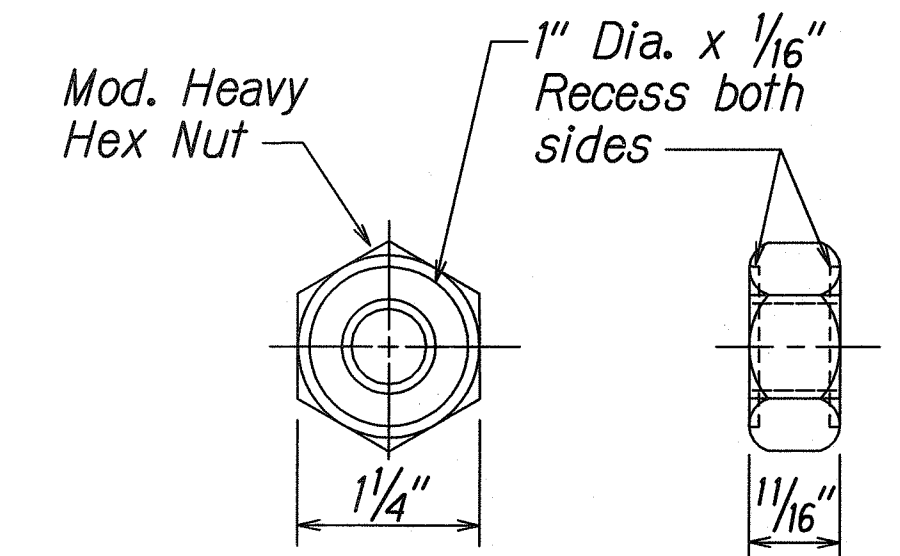
NOTE:  
All Holes are 3/4" Dia.



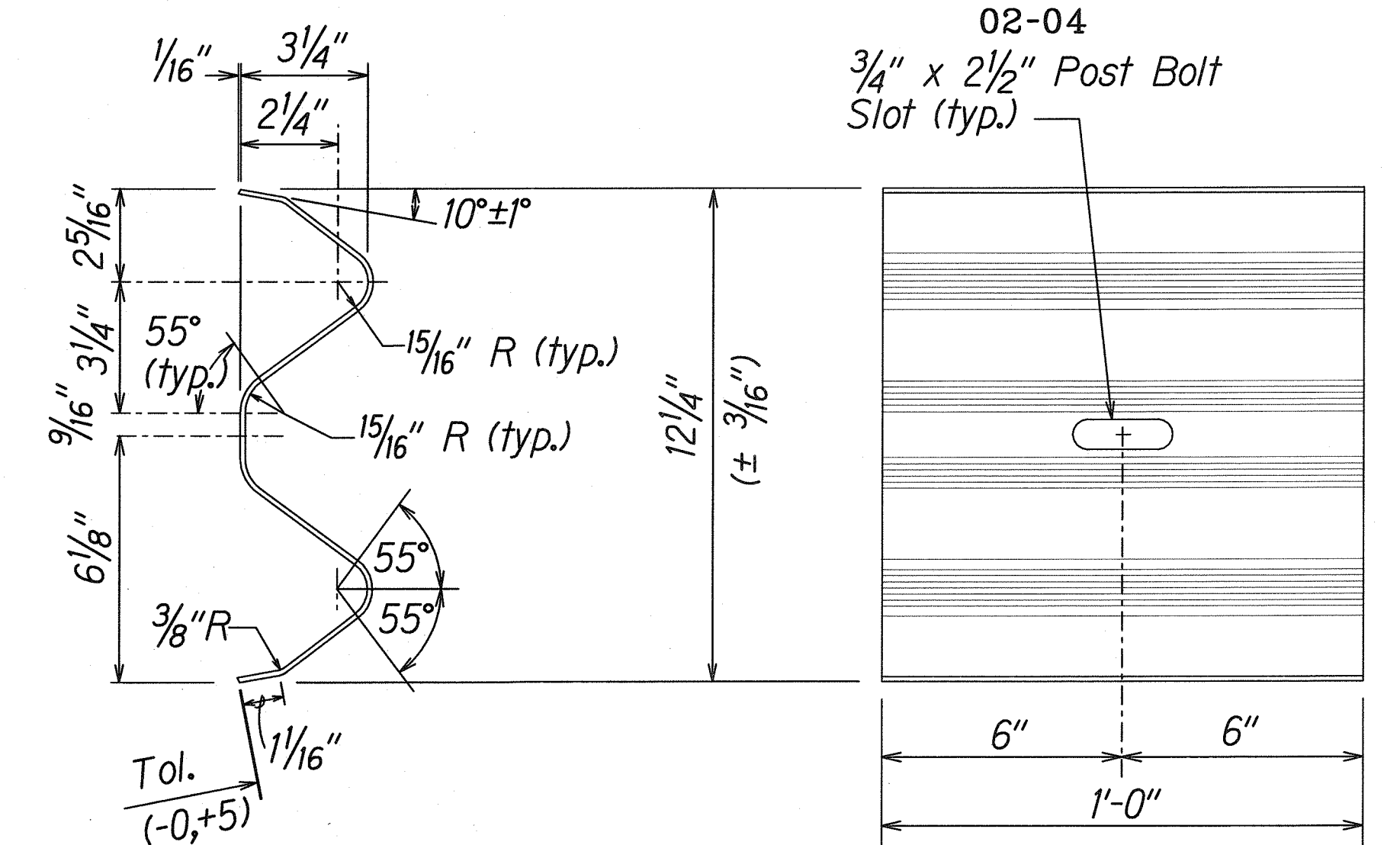
**W-BEAM STRONG POST (PWE01)**



| DESIGNATOR | L      |
|------------|--------|
| FBB01      | 1 3/8" |
| FBB02      | 2"     |
| FBB03      | 10"    |

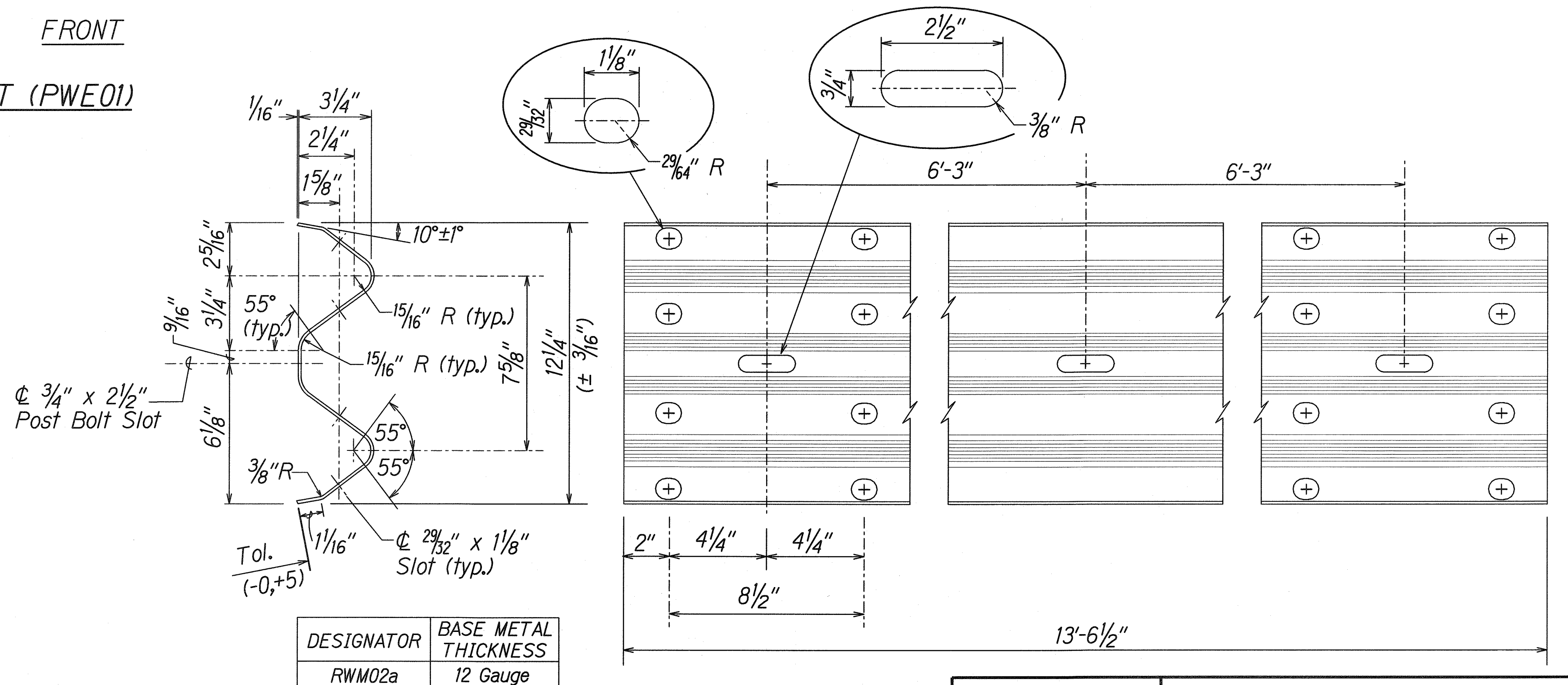


**GUARDRAIL BOLTS AND RECESSED NUT**



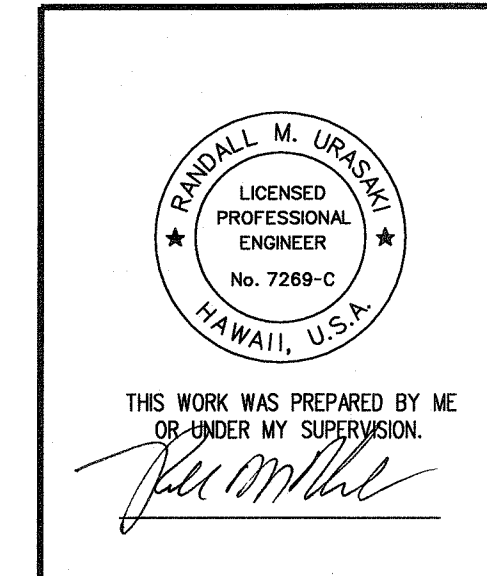
| DESIGNATOR | BASE METAL THICKNESS |
|------------|----------------------|
| RWB01a     | 12 Gauge             |

**W-BEAM BACK-UP-PLATE (RWB01a)**



| DESIGNATOR | BASE METAL THICKNESS |
|------------|----------------------|
| RWM02a     | 12 Gauge             |

**2 SPACE W-BEAM GUARDRAIL (RWM02a)**



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**STRONG POST W-BEAM GUARDRAIL**

KALANIANA'OLE HIGHWAY  
EMERGENCY LANDSLIDE REPAIRS AT CASTLE JUNCTION

PROJECT NO. 61C-01-04 02-04  
Scale: Not To Scale Date: Sept. 26, 2003

SHEET No. F-7 OF 20 SHEETS

|               |             |
|---------------|-------------|
| ORIGINAL PLAN | DATE        |
| NOTED BY      | DESIGNED BY |
| QUANTITIES BY | CHECKED BY  |

J:\CASTLE JUNCTION\ROAD\WBEAMSP.dgn