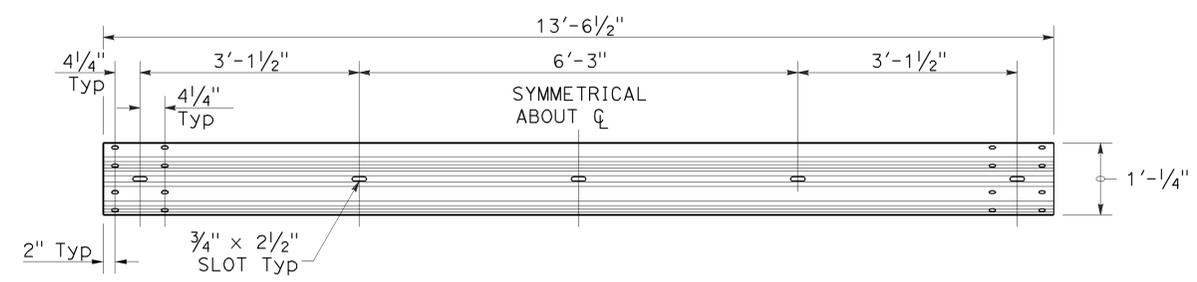


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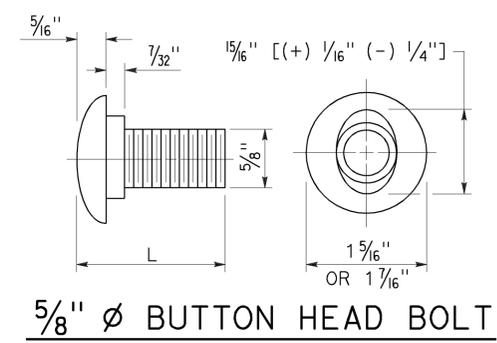
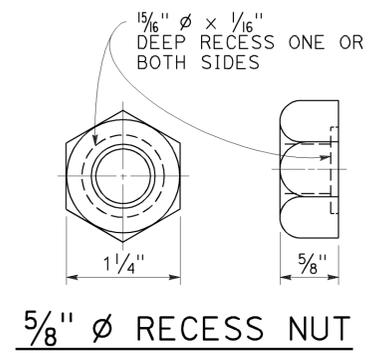
TO ACCOMPANY PLANS DATED 01-27-14



**TYPICAL RAIL ELEMENT**

**NOTE:**

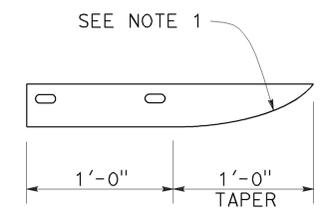
- Slotted holes for splice bolts to overlap ends of rail element.



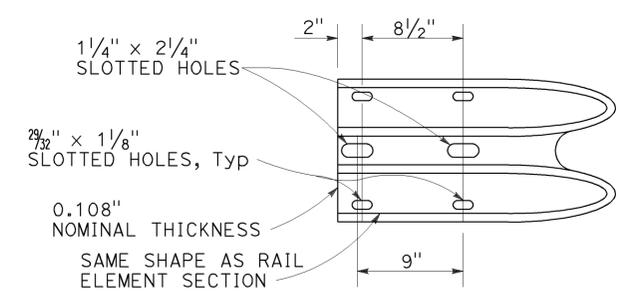
**BUTTON HEAD BOLT**

| L         | THREAD LENGTH        |
|-----------|----------------------|
| 1 3/8"    | FULL THREAD LENGTH   |
| 2"        | FULL THREAD LENGTH   |
| 10"       | 4" Min THREAD LENGTH |
| 18"       | 4" Min THREAD LENGTH |
| 20"       | 4" Min THREAD LENGTH |
| 22"       | 4" Min THREAD LENGTH |
| 26"       | 4" Min THREAD LENGTH |
| 36"       | 4" Min THREAD LENGTH |
| ** 2 3/4" | 2" Min THREAD LENGTH |
| ** 19"    | 4" Min THREAD LENGTH |

\*\* For nested rail applications.



**PLAN**



**ELEVATION  
END CAP  
(TYPE A)**

**1** ADDED PER ADDENDUM No. 1 DATED MARCH 21, 2014

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM  
STANDARD HARDWARE**

NO SCALE

RSP A77M1 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP A77M1**

2010 REVISED STANDARD PLAN RSP A77M1

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 11   | SD     | 15    | R36.8/R40.8              | 48B       | 73           |

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

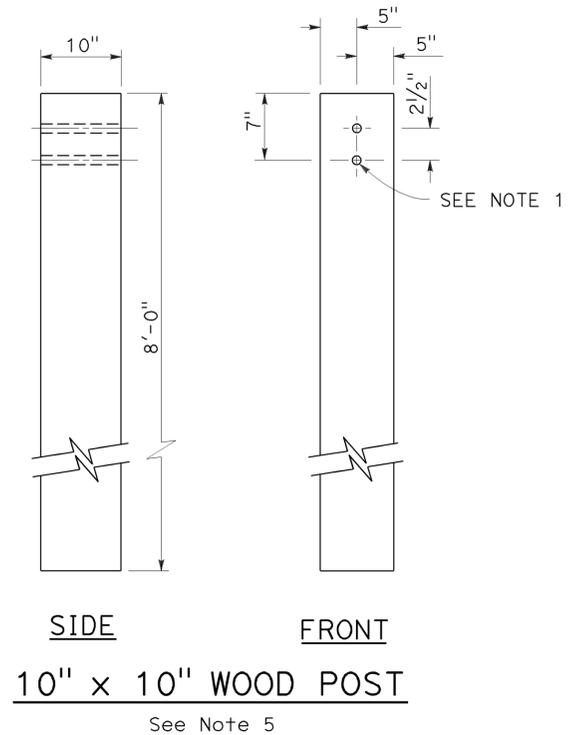
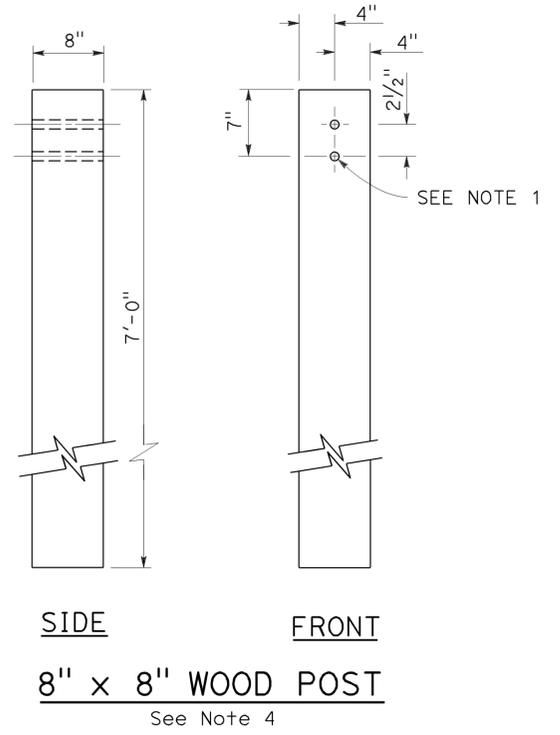
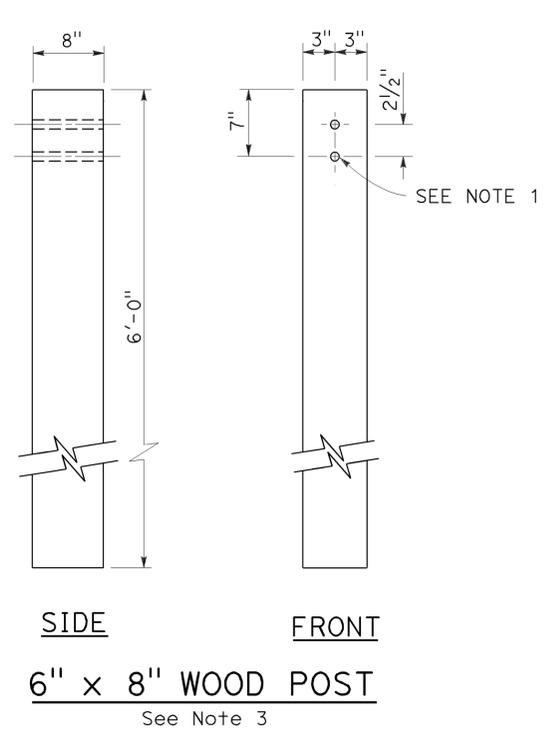
July 19, 2013  
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-15  
CIVIL  
STATE OF CALIFORNIA

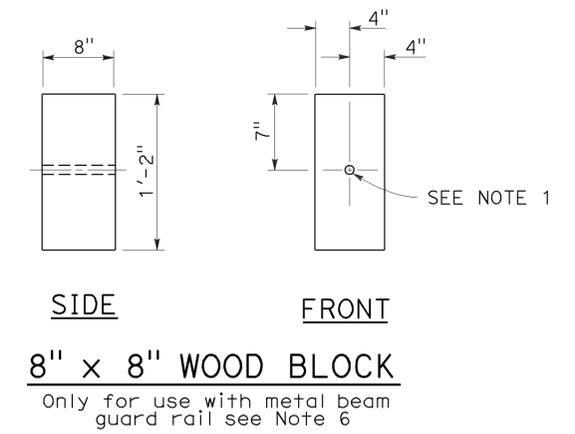
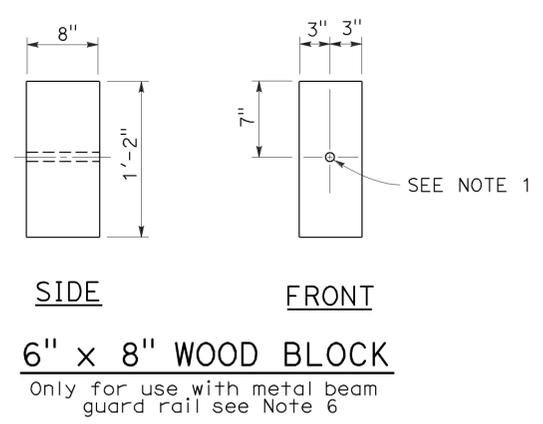
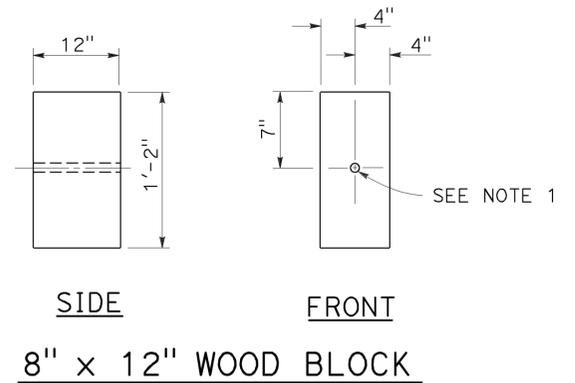
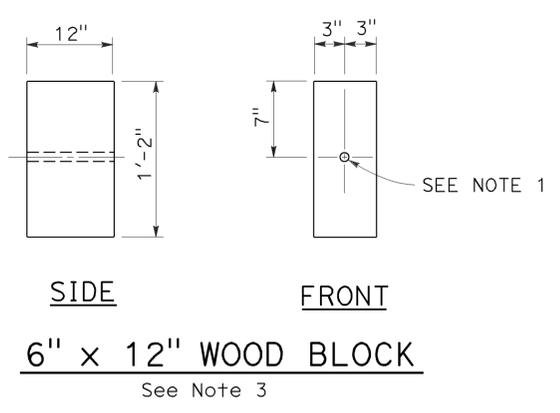


TO ACCOMPANY PLANS DATED 01-27-14



**NOTES:**

1. All holes in wood posts and blocks shall be 3/4" Dia ± 1/16".
2. Dimensions shown for wood post are nominal.
3. This post and block combination used for standard line post sections of MGS.
4. This post and 8" x 12" block combination used for line post sections of MGS on narrow roadways.
5. This post and 8" x 12" block combination is typically used where strengthened line post sections of MGS are warranted to shield fixed objects.
6. See Revised Standard Plan RSP A77L3 for use of 6" x 8" and 8" x 8" wood blocks.



**1** ADDED PER ADDENDUM No. 1 DATED MARCH 21, 2014

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**MIDWEST GUARDRAIL SYSTEM  
WOOD POST AND  
WOOD BLOCK DETAILS**

NO SCALE

RSP A77N1 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP A77N1**

2010 REVISED STANDARD PLAN RSP A77N1