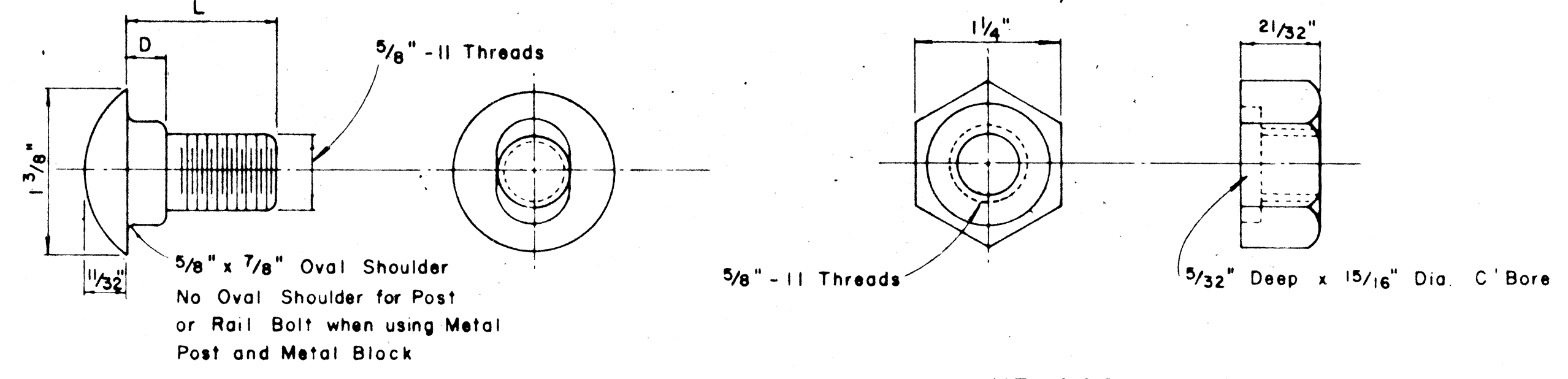


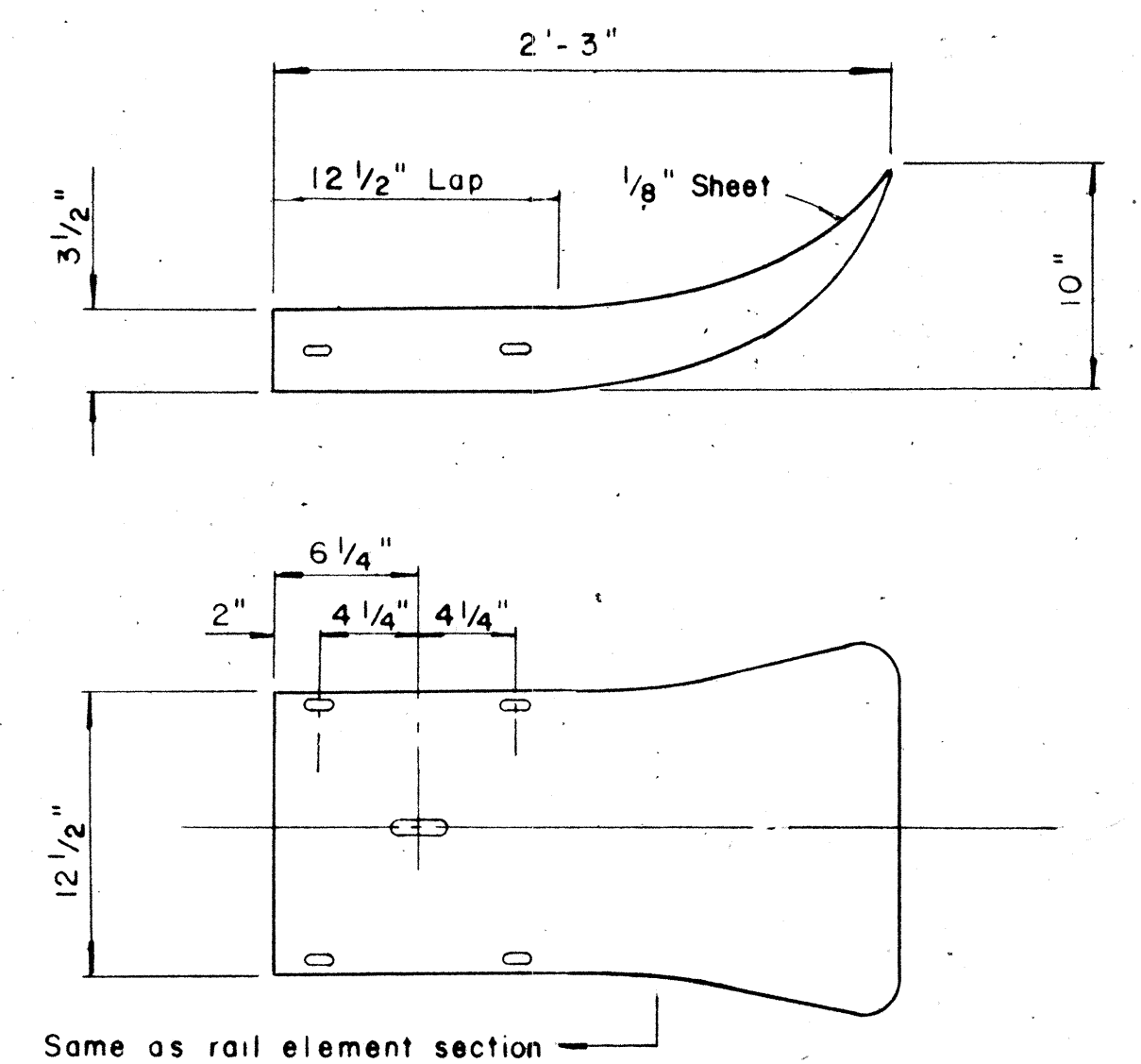
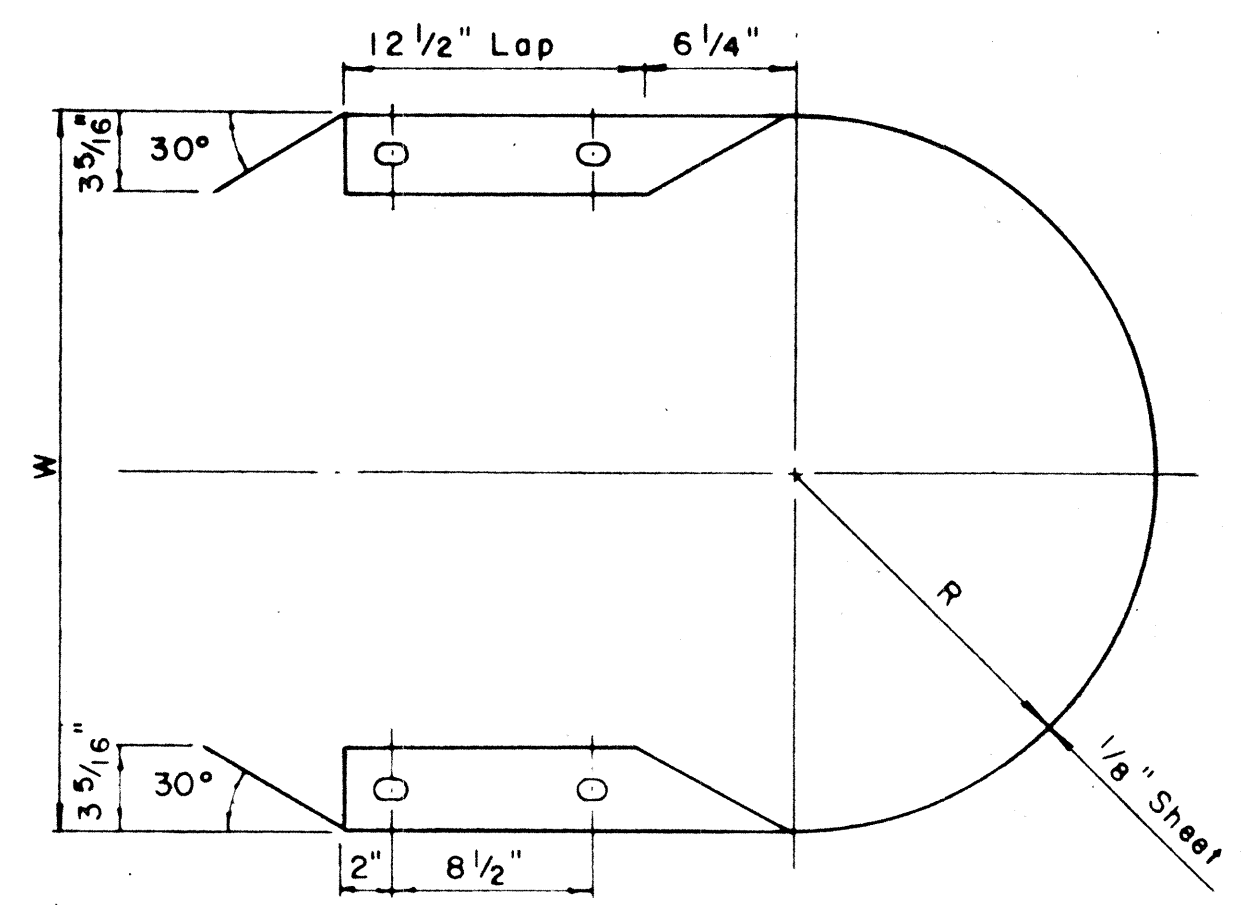
| FED. ROAD DIST. NO. | STATE | FED. AID FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|----------------------|-----------|--------------|
| HAWAII              | HAW.  | RAD 2(2) 1966        | 2         | 3            |

| BOLT DIMENSIONS                                |       |        |
|------------------------------------------------|-------|--------|
| TYPE BOLT                                      | D     | L      |
| Splice Bolt                                    | 5/16" | 1 1/4" |
| Post Bolt for Conc. Post w/ Double Wood Blocks | 3/32" | 25"    |
| Rail Bolt for Metal Block                      | 3/32" | 2"     |
| Post Bolt for Metal Post w/ Metal Block        | 0"    | 1 3/4" |
| Post Bolt for Conc. Post w/ Single Wood Block  | 3/32" | 18"    |

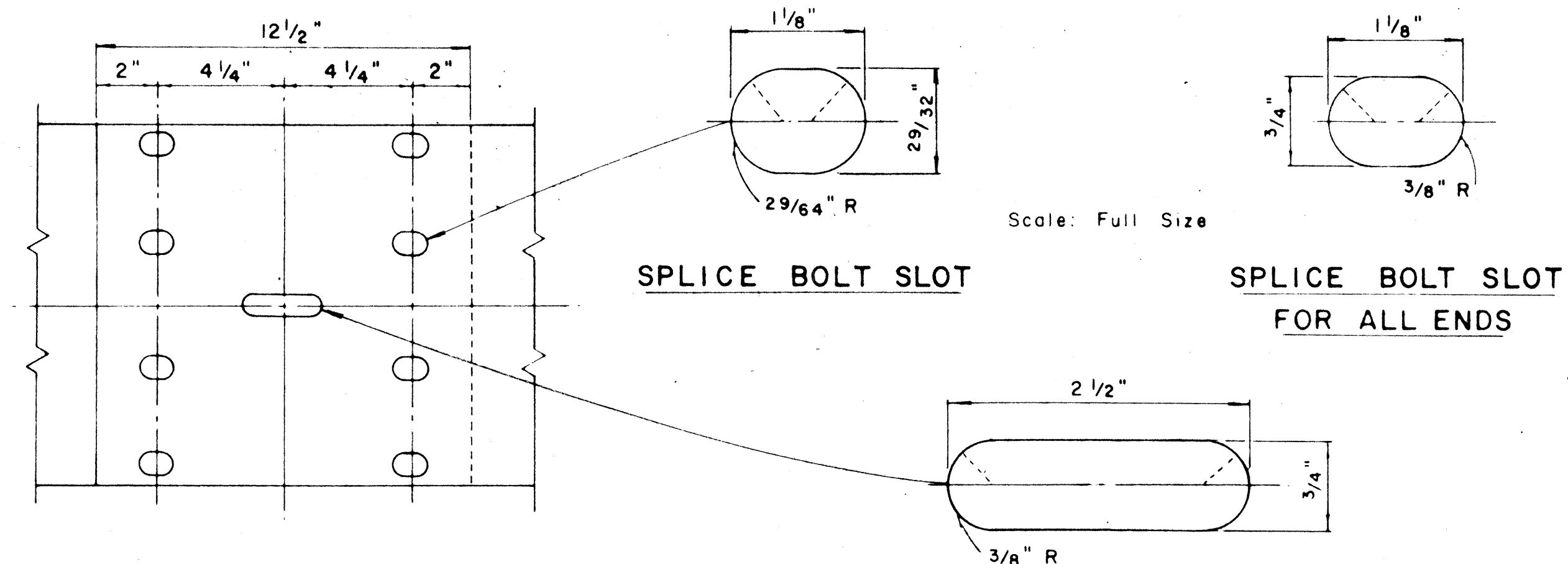


**SPLICE RAIL AND POST BOLTS**  
Scale: Full Size

**HEXAGON NUT**  
Scale: Full Size

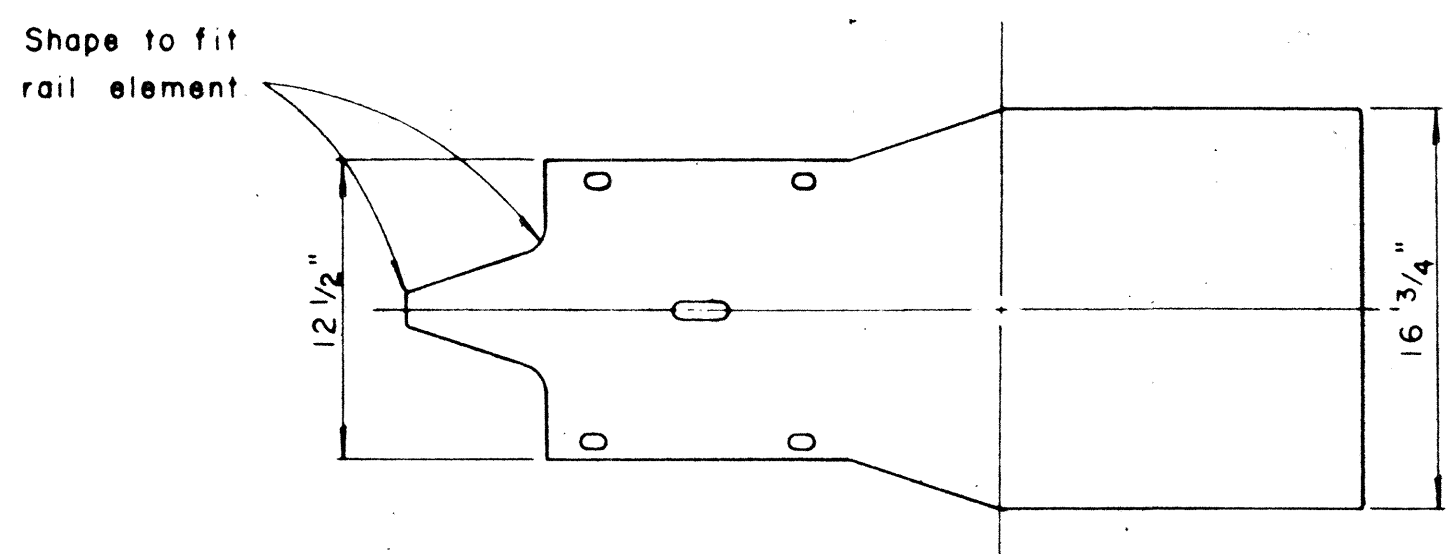


**FLARED END**  
Scale: 1 1/2" = 1'-0"



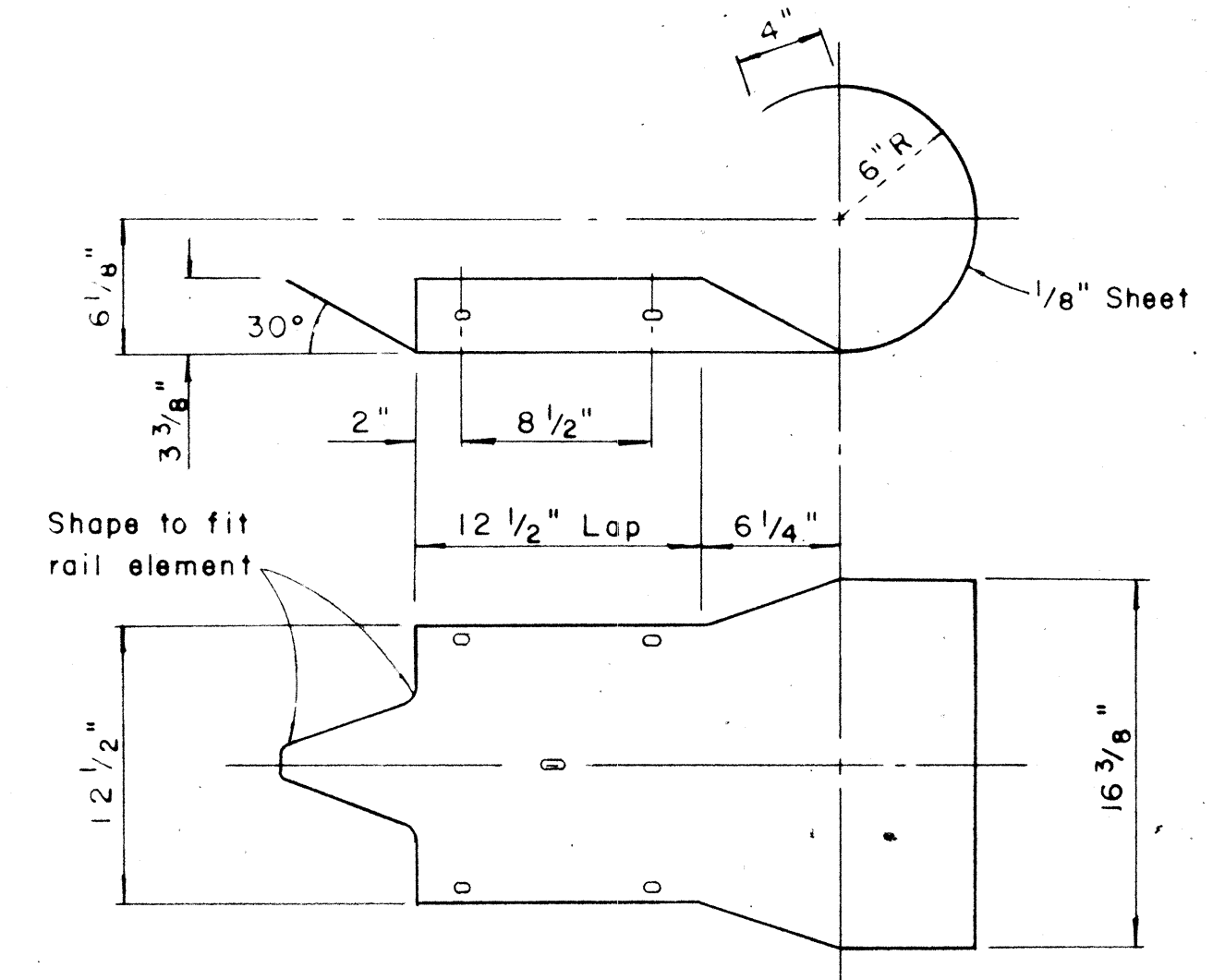
**RAIL SPLICE**  
Scale: 3" = 1'-0"

**POST BOLT SLOT**  
Scale: Full Size

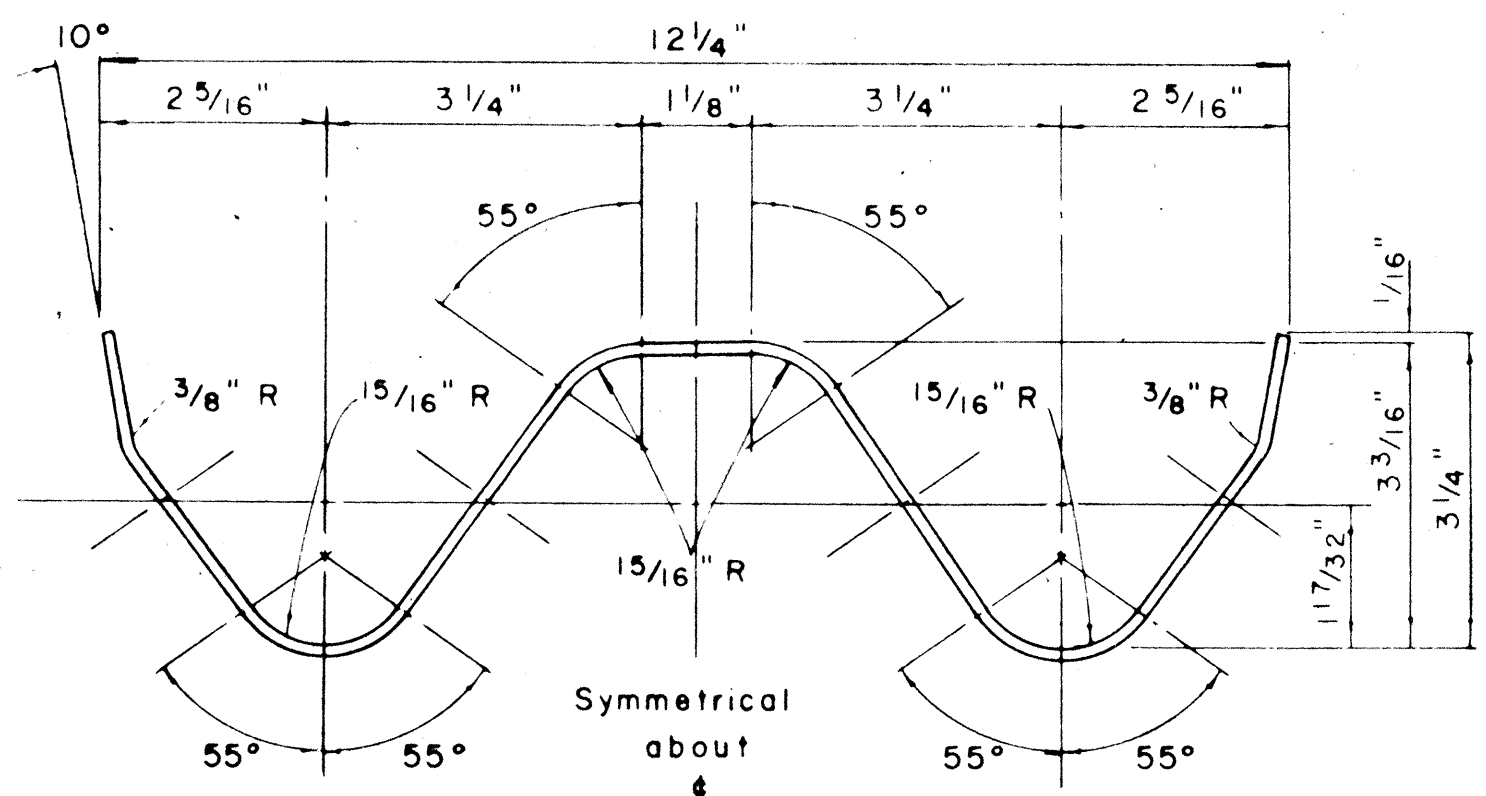


**MEDIAN END**  
Scale: 1 1/2" = 1'-0"

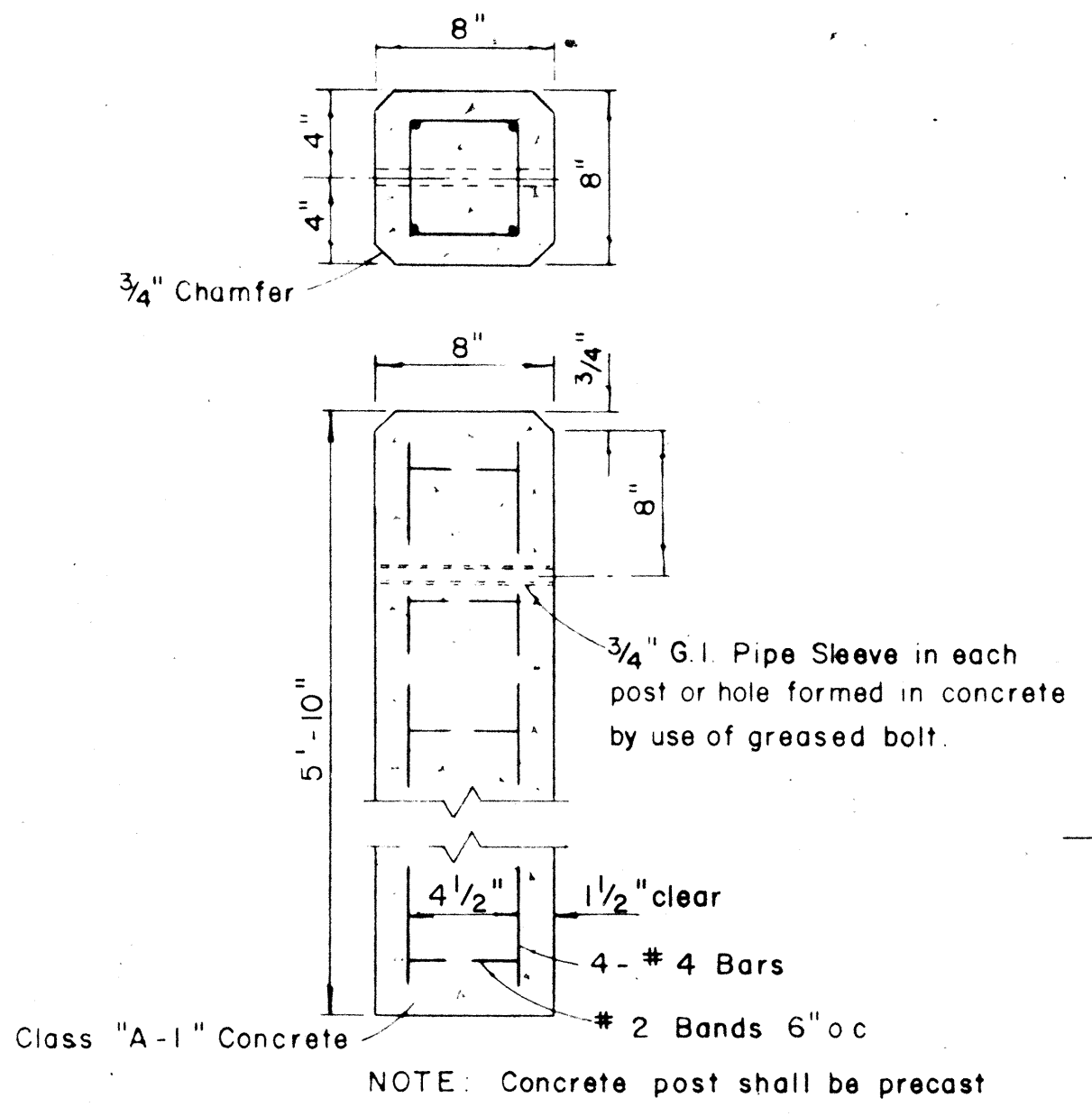
| TYPE OF POST AND BLOCK                                          | W       | R       |
|-----------------------------------------------------------------|---------|---------|
| Double Metal Guard Rail on Concrete Post with Wood Blocks       | 29 3/4" | 14 7/8" |
| Double Metal Guard Rail on Metal Post with Metal Blocks (B J 6) | 24 3/4" | 12 3/8" |



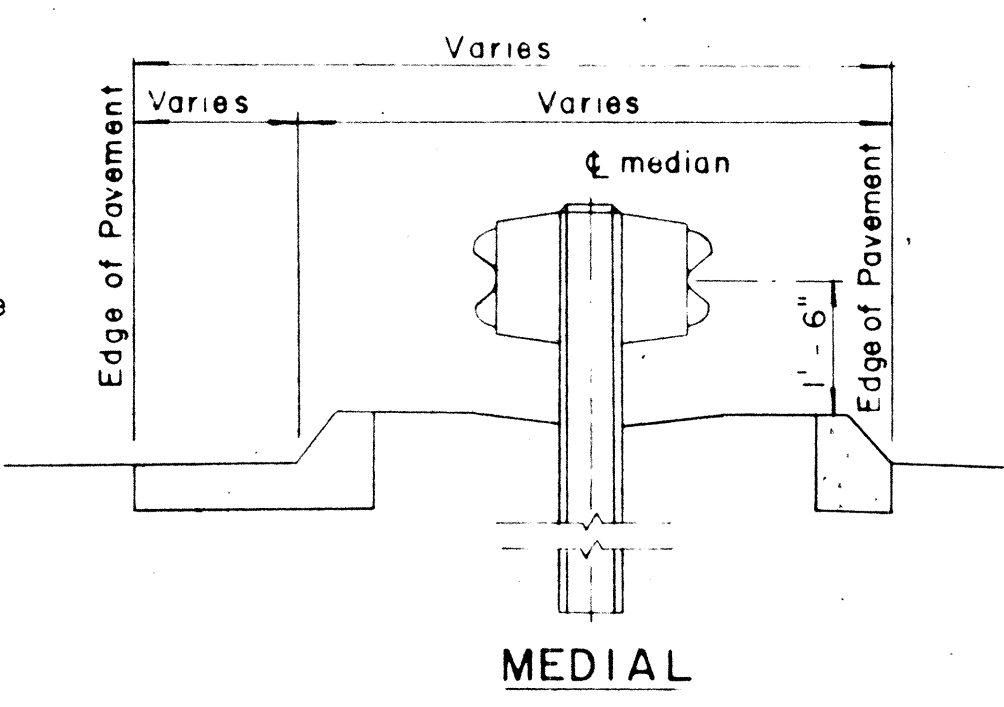
**CURVED END**  
Scale: 1 1/2" = 1'-0"



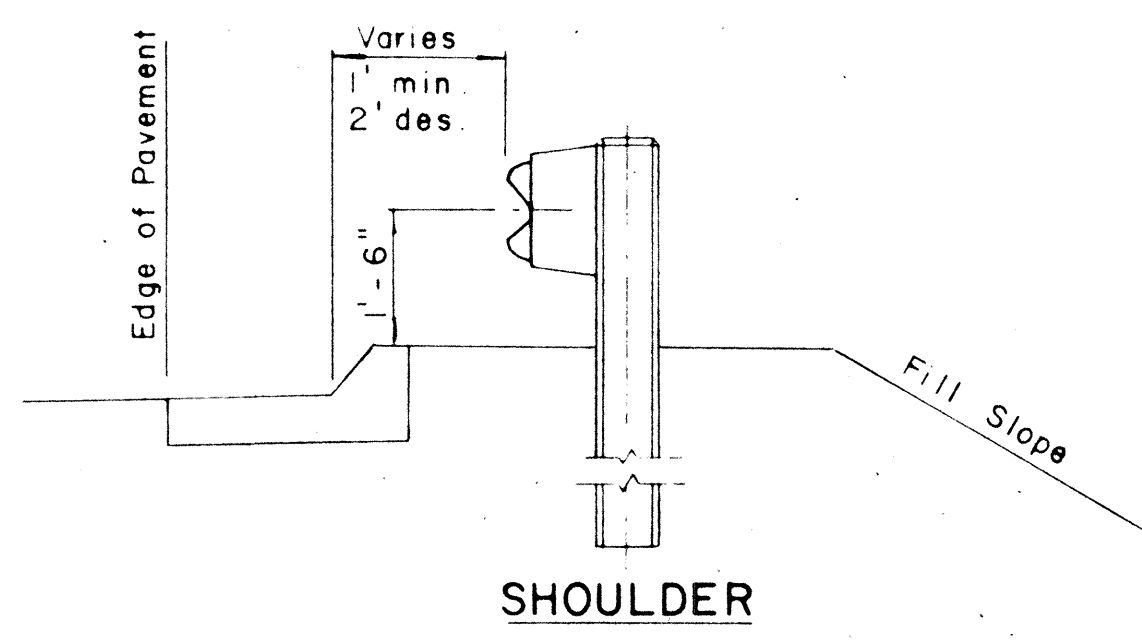
**RAIL ELEMENT SECTION**  
Scale: 6" = 1'-0"



**DETAIL OF CONCRETE POST**  
Scale: 1 1/2" = 1'-0"



**TYPICAL GUARD RAIL DETAIL**  
Scale: 1/2" = 1'-0"



**SHOULDER**

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**STANDARD DETAILS**  
**METAL GUARD RAIL**  
FARRINGTON HIGHWAY  
KAENA PT. TRACKING STA. ACCESS RD. TOWARD MAKUA  
F.D.A. PROJ. NO. RAD 2(2)  
Scale: As Noted Date: Aug. 1966

**SHEET No. 1 OF 2 SHEETS**

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| ORIGINAL PLAN     |      |
| TRACED BY         |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |
| NOTE BOOK         |      |
| NO.               |      |



|               |                   |      |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
|               | DRAWN BY          |      |
|               | TRACED BY         |      |
| NOTE BOOK     | DESIGNED BY       |      |
|               | QUANTITIES BY     |      |
| No.           | CHECKED BY        |      |