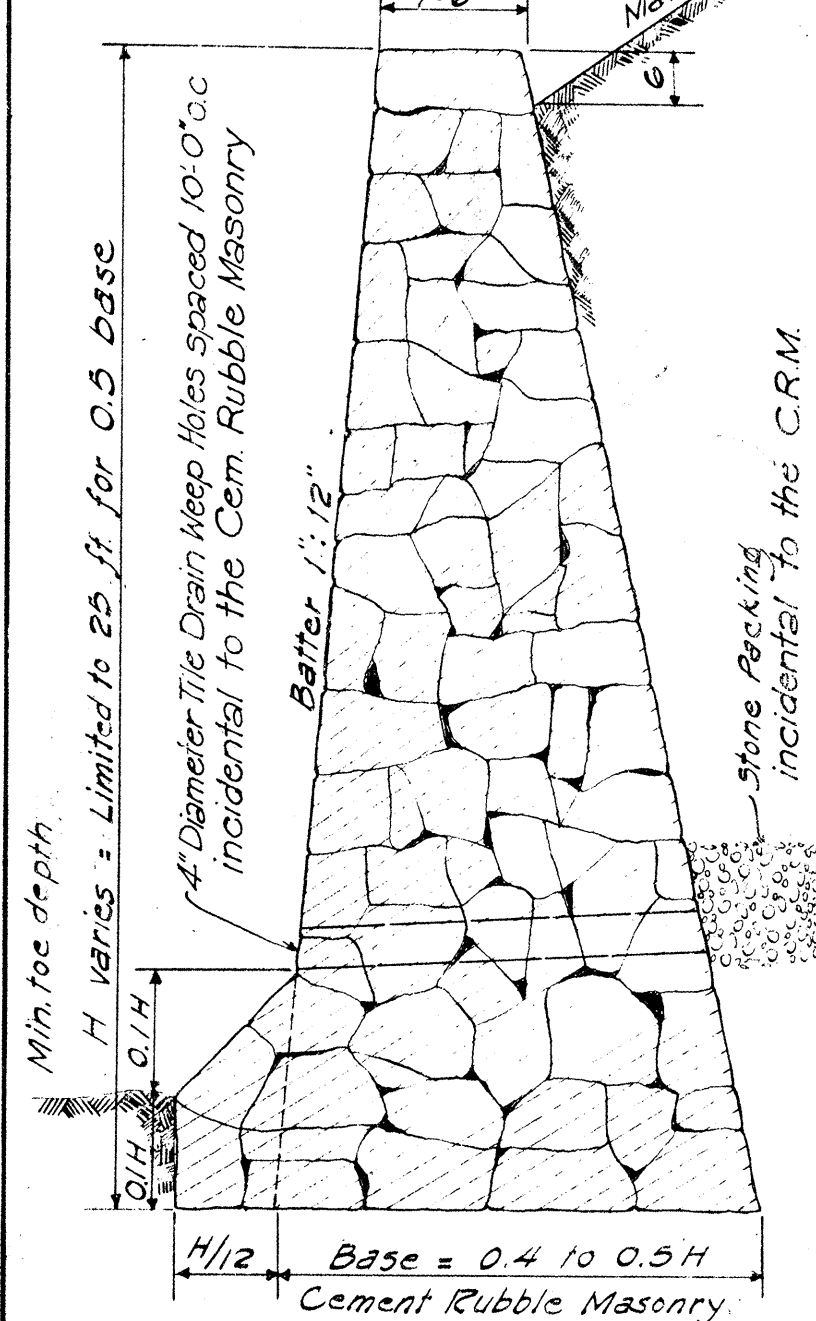


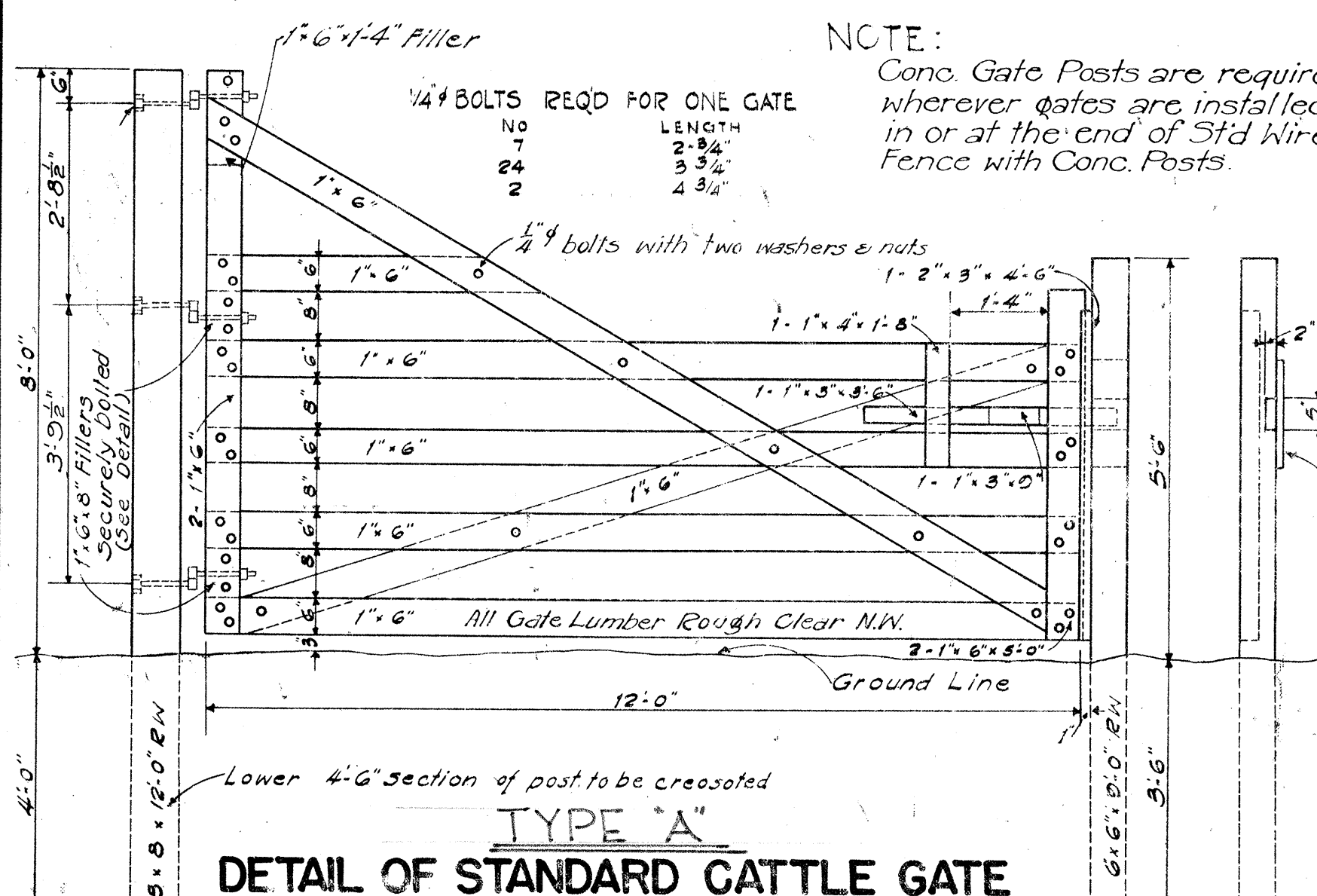
Note: TO RESIDENT ENGINEER  
Consider economy of reinforcement for high retaining walls which did not originate on plan layout.



**STANDARD SECTION OF LOW MASONRY RETAINING WALL OR SEAWALL**

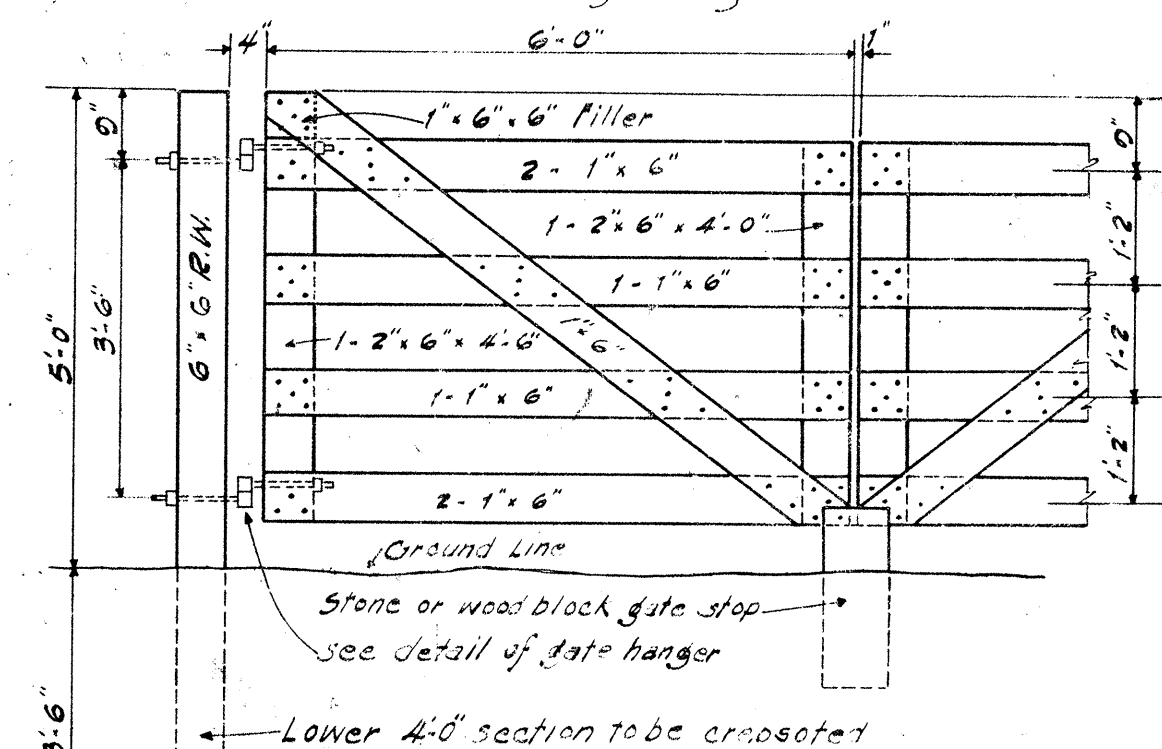
NOTE: Elevation of weep holes to be determined by Resident Engineer. Holes to be placed as close to the existing ground line as local conditions permit.

**STANDARD SECTION OF HIGH CEMENT RUBBLE MASONRY RETAINING WALL OR SEAWALL**



**DETAIL OF STANDARD CATTLE GATE**

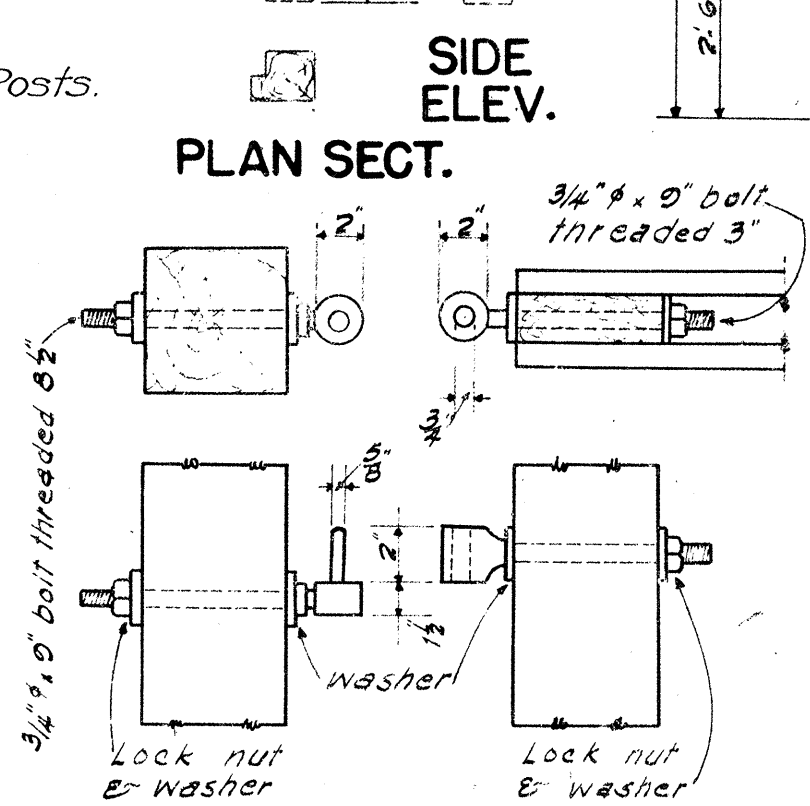
Scale: 1/2" = 1'-0"



**DOUBLE HUNG GATE**

Scale: 1/2" = 1'-0"

See Note regarding use of Concrete Posts.



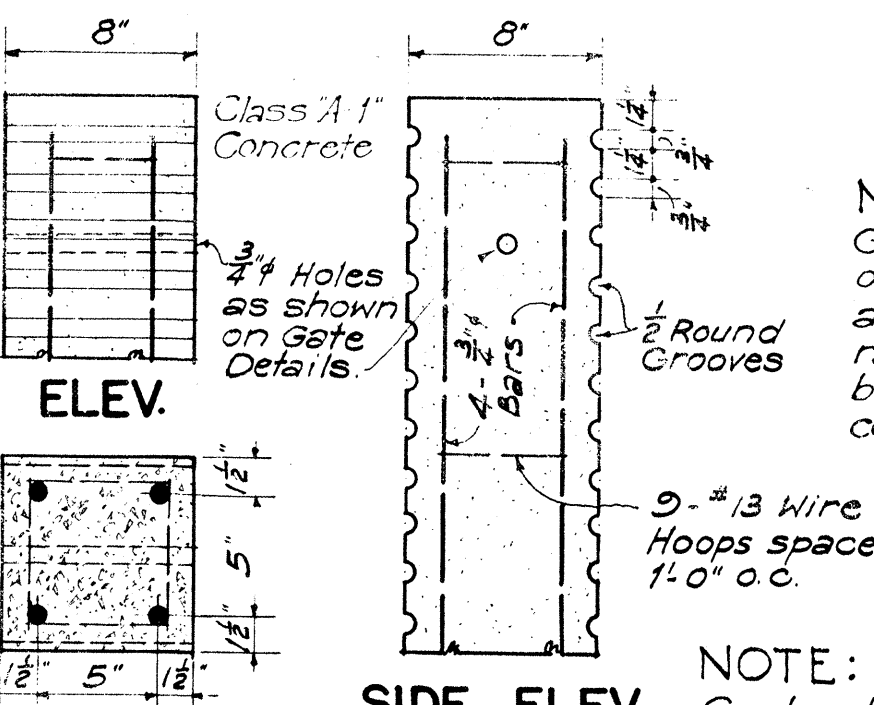
**DETAIL OF GATE HANGER**

Scale: 1/2" = 1'-0"

Note: Use 3/4" x 11" bolts for cattle gate

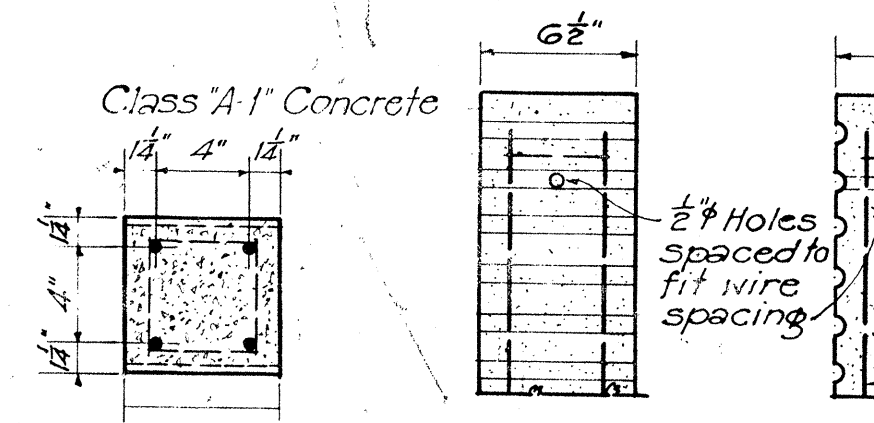
| Data    | Standard | Masonry | Drop | Intake  | where variable equals |
|---------|----------|---------|------|---------|-----------------------|
| 0'      | D        | L       | D+G  | Cu. Yds |                       |
| 22 1/2" | 18"      | 2'-0"   | 2.41 | 4'-6"   |                       |
| 29"     | 24"      | 2'-6"   | 2.89 | 5'-0"   |                       |
| 35 1/2" | 30"      | 3'-0"   | 3.38 | 5'-6"   |                       |
| 42"     | 36"      | 3'-6"   | 3.92 | 6'-0"   |                       |

NOTE: Dimension "X" is assumed as 2'-4" in figuring the above quantities.



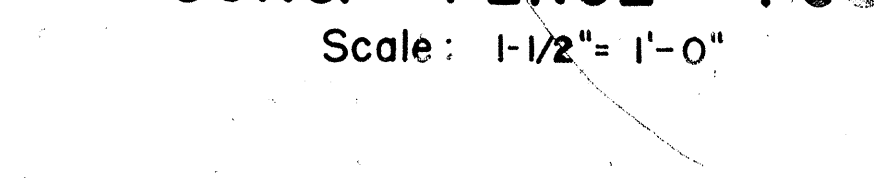
**STANDARD MASONRY DROP INTAKE**

Scale: 3/8" = 1'-0"



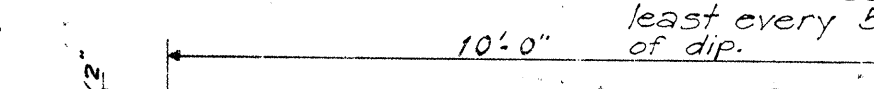
**STANDARD MASONRY DROP INTAKE**

Scale: 1/2" = 1'-0"



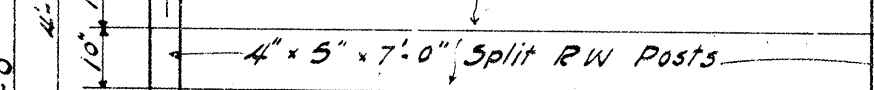
**STANDARD MASONRY DROP INTAKE**

Scale: 1/2" = 1'-0"



**STANDARD MASONRY DROP INTAKE**

Scale: 1/2" = 1'-0"



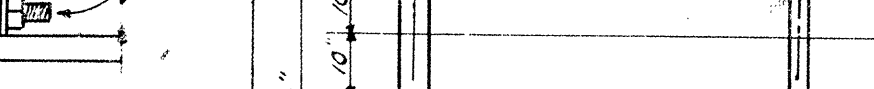
**STANDARD MASONRY DROP INTAKE**

Scale: 1/2" = 1'-0"



**STANDARD MASONRY DROP INTAKE**

Scale: 1/2" = 1'-0"



**STANDARD MASONRY DROP INTAKE**

Scale: 1/2" = 1'-0"



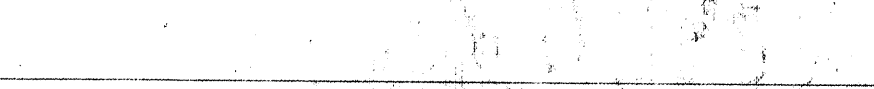
**STANDARD MASONRY DROP INTAKE**

Scale: 1/2" = 1'-0"

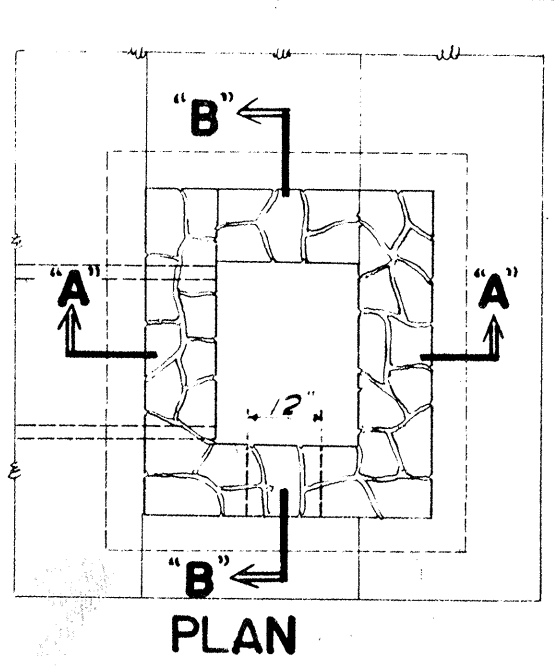


**STANDARD MASONRY DROP INTAKE**

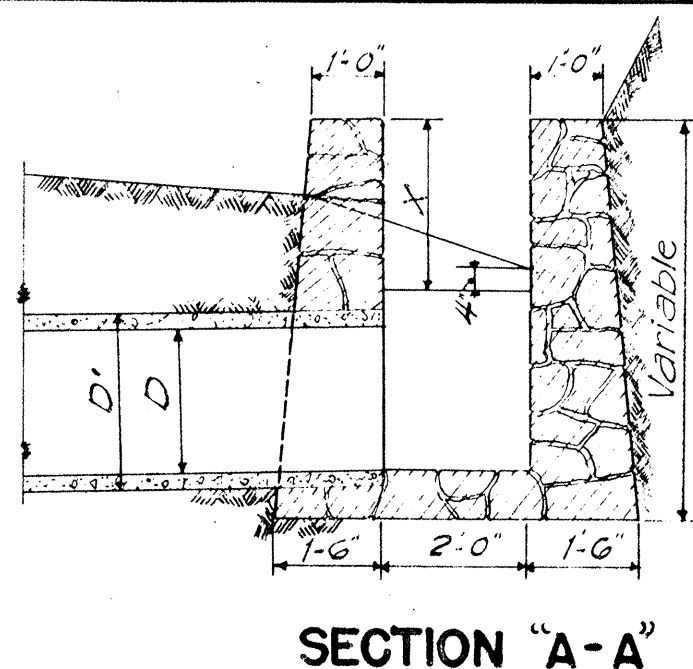
Scale: 1/2" = 1'-0"



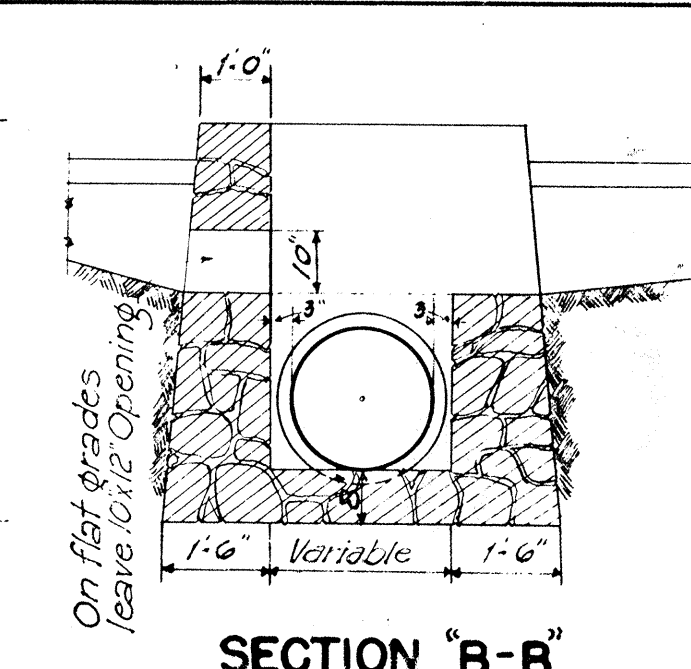
**STANDARD MASONRY DROP INTAKE**



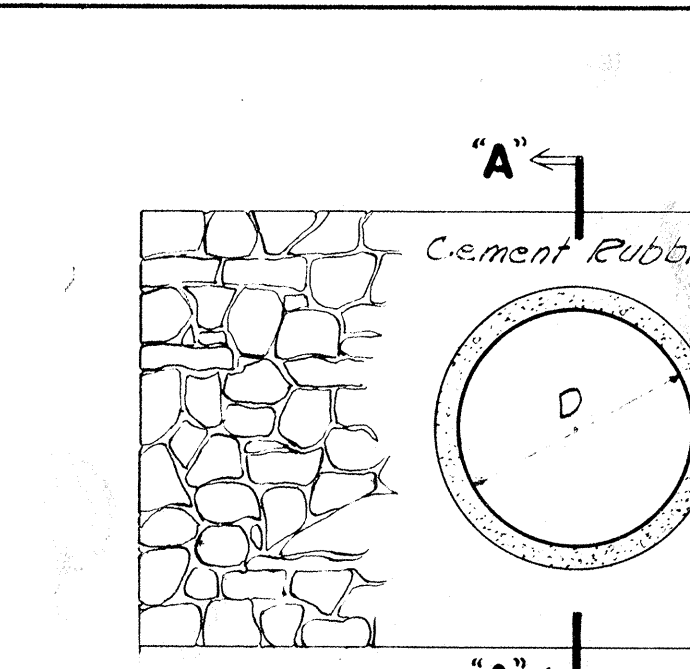
**STANDARD MASONRY DROP INTAKE**



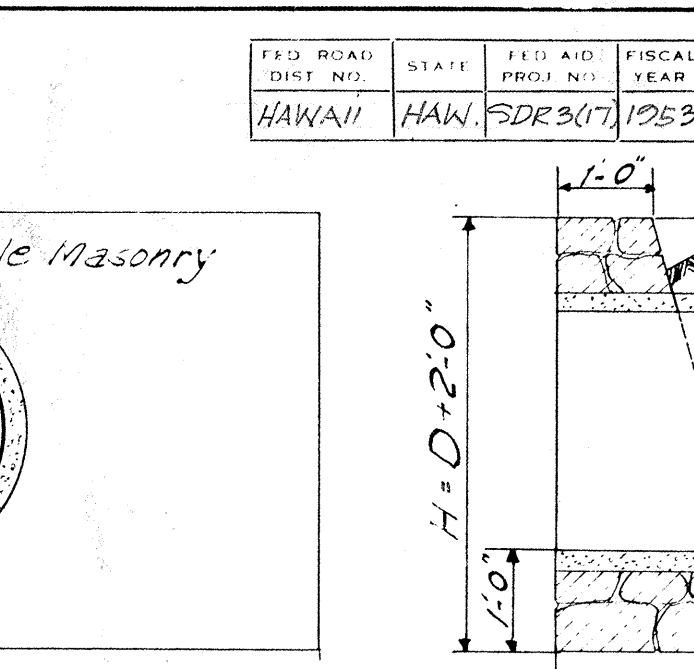
**STANDARD MASONRY DROP INTAKE**



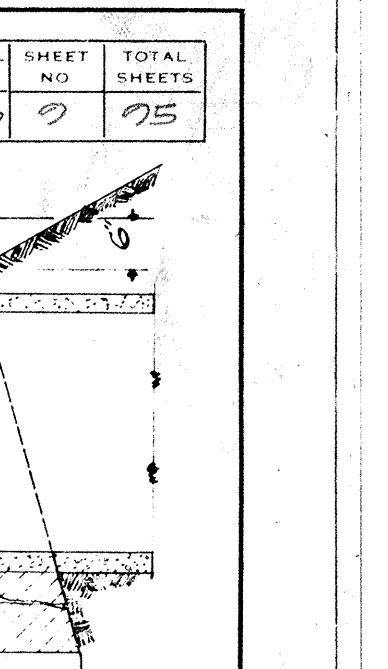
**STANDARD MASONRY DROP INTAKE**



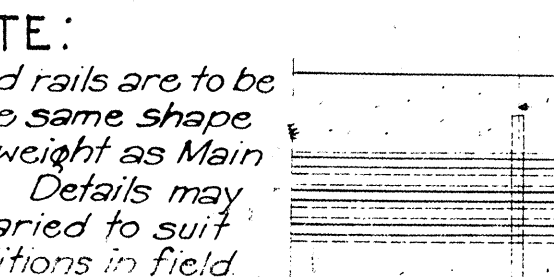
**STANDARD MASONRY DROP INTAKE**



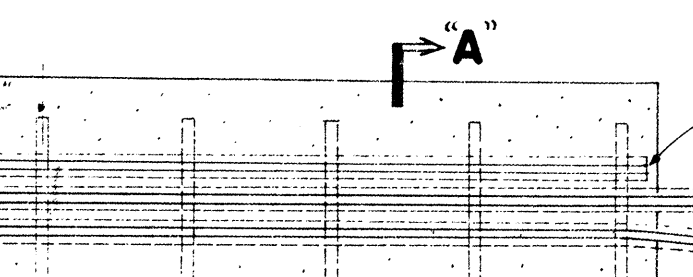
**STANDARD MASONRY DROP INTAKE**



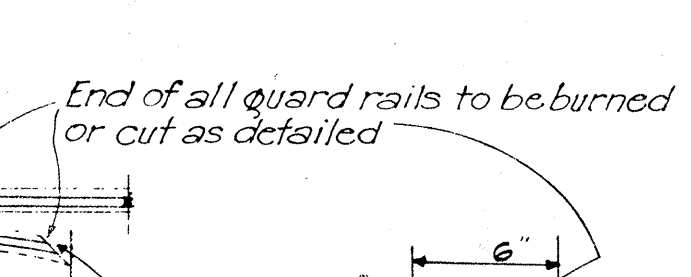
**STANDARD MASONRY DROP INTAKE**



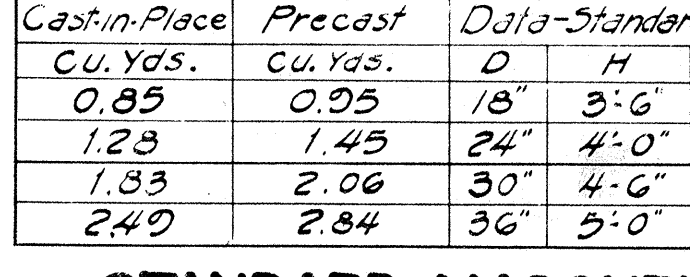
**STANDARD MASONRY DROP INTAKE**



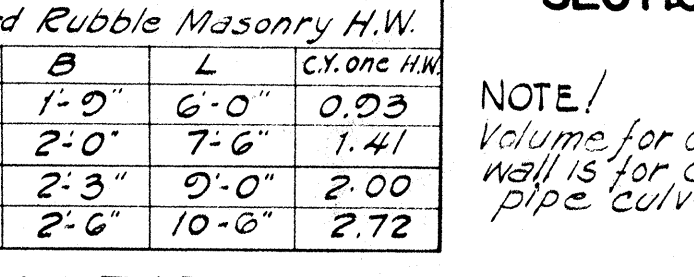
**STANDARD MASONRY DROP INTAKE**



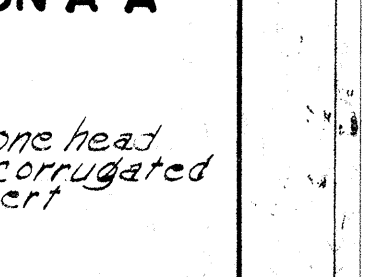
**STANDARD MASONRY DROP INTAKE**



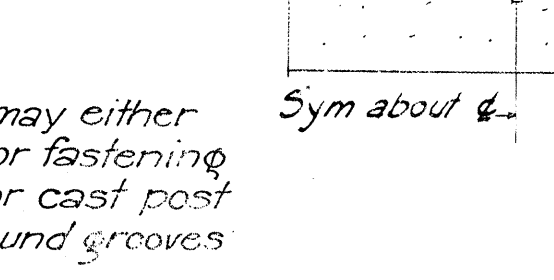
**STANDARD MASONRY DROP INTAKE**



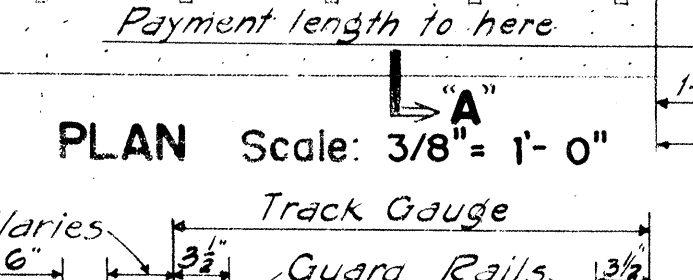
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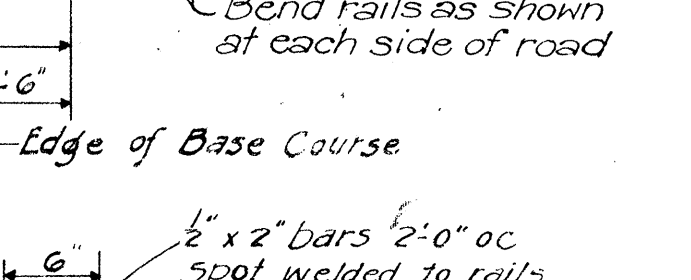
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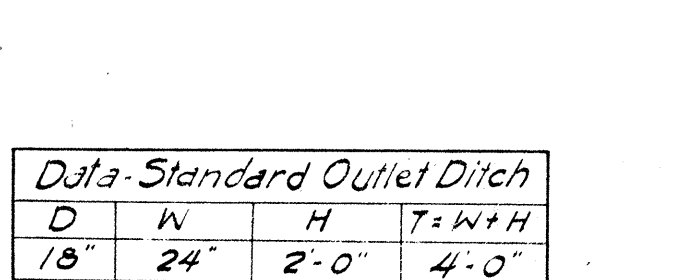
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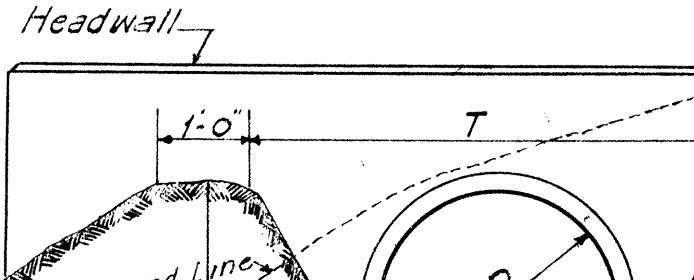
**STANDARD MASONRY DROP INTAKE**



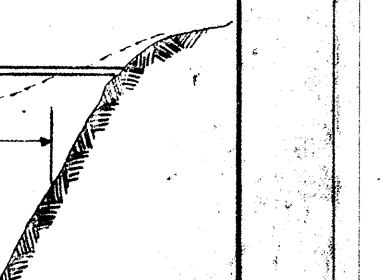
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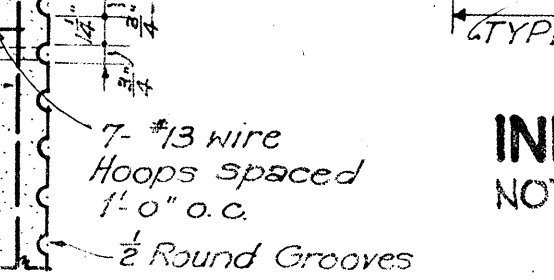
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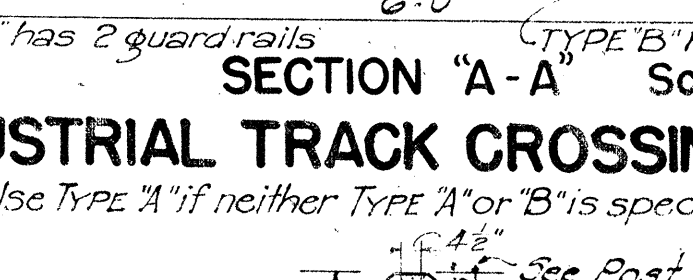
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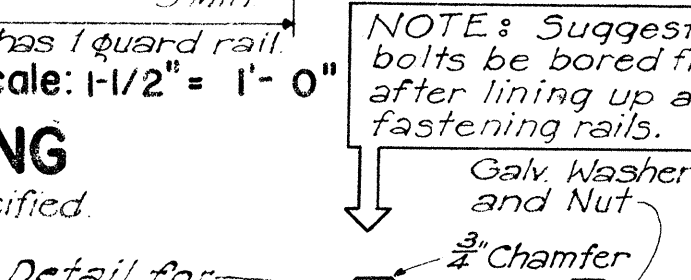
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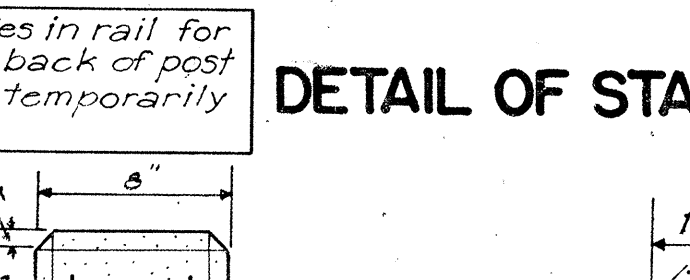
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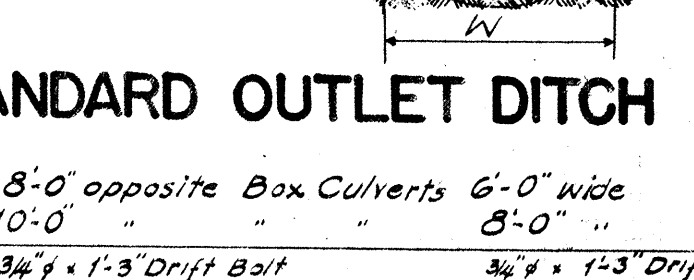
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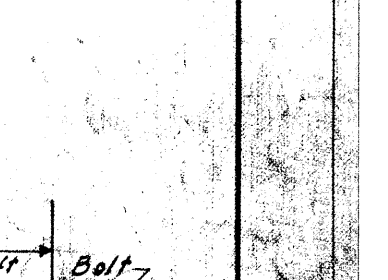
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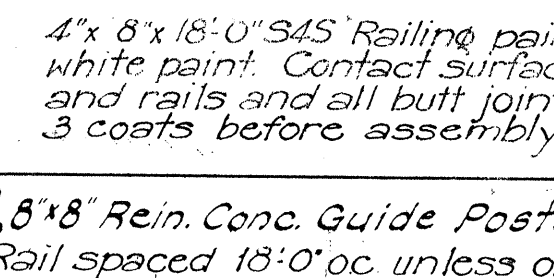
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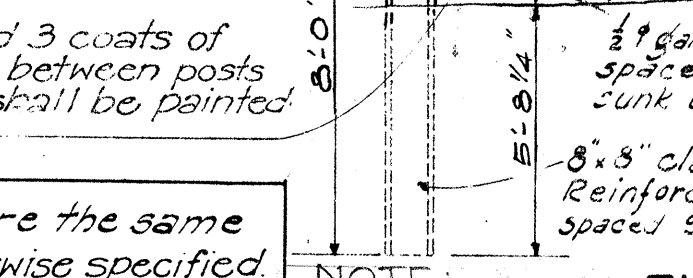
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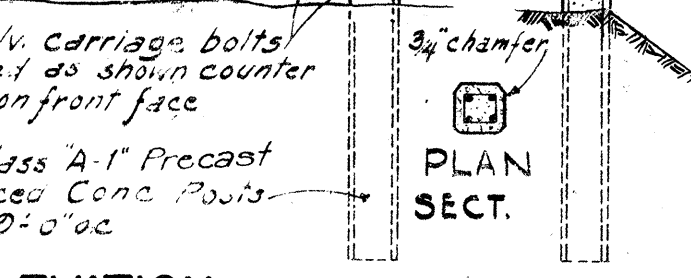
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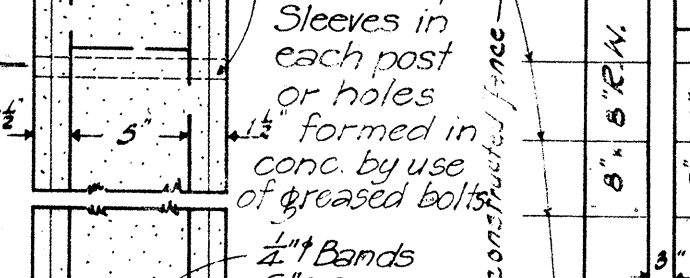
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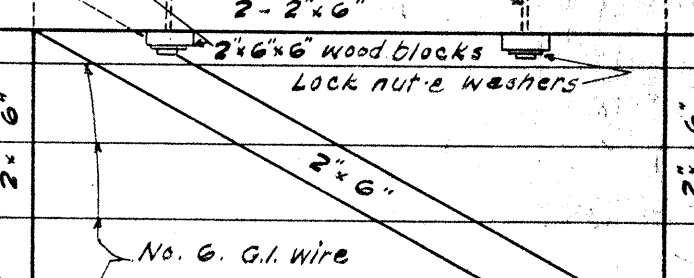
**STANDARD MASONRY DROP INTAKE**



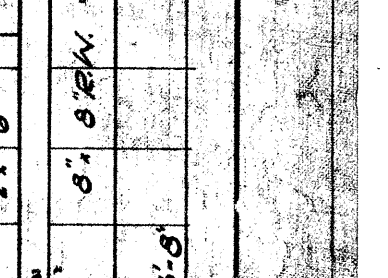
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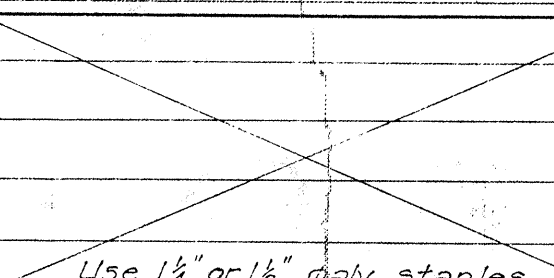
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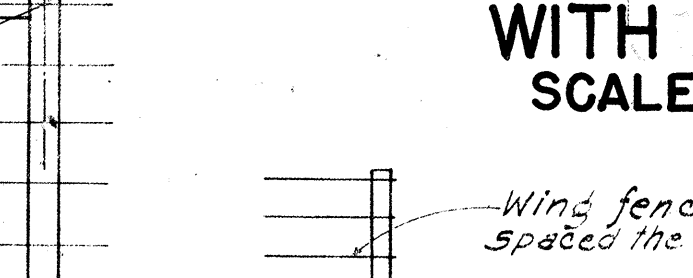
**STANDARD MASONRY DROP INTAKE**



**STANDARD MASONRY DROP INTAKE**



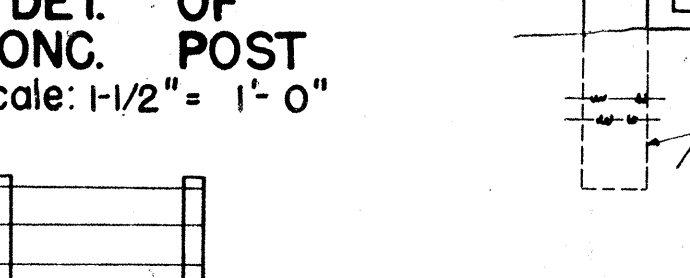
**STANDARD MASONRY DROP INTAKE**



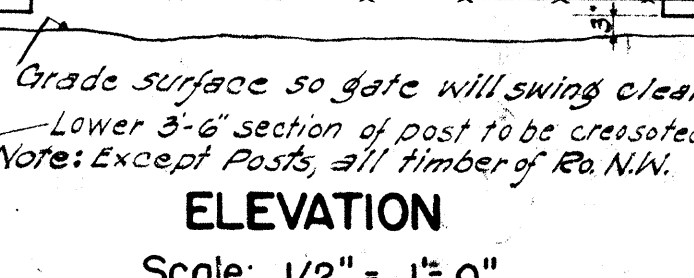
**STANDARD MASONRY DROP INTAKE**



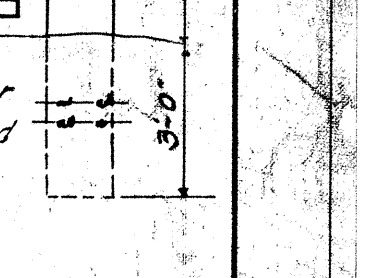
**STANDARD MASONRY DROP INTAKE**



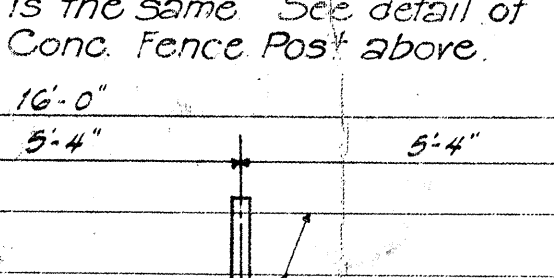
**STANDARD MASONRY DROP INTAKE**



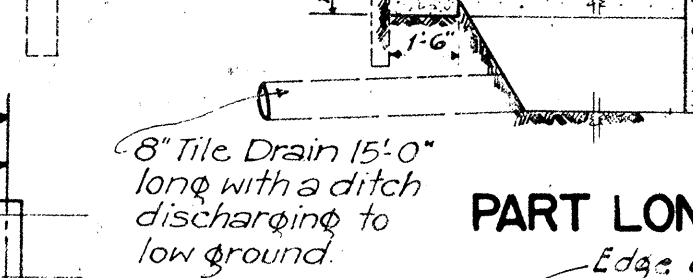
**STANDARD MASONRY DROP INTAKE**



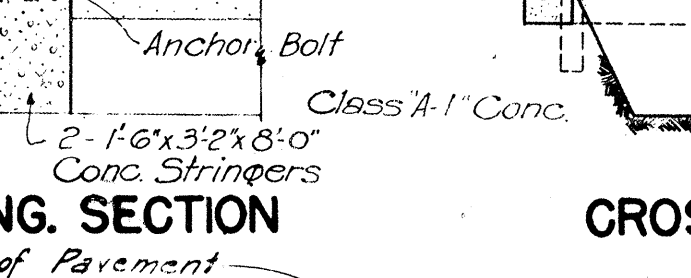
**STANDARD MASONRY DROP INTAKE**



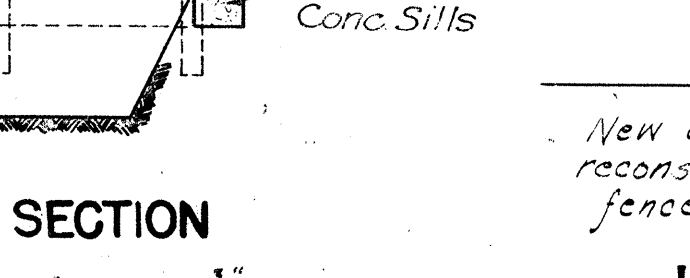
**STANDARD MASONRY DROP INTAKE**



**STANDARD MASONRY DROP INTAKE**

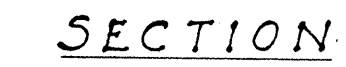
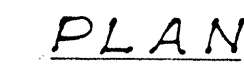
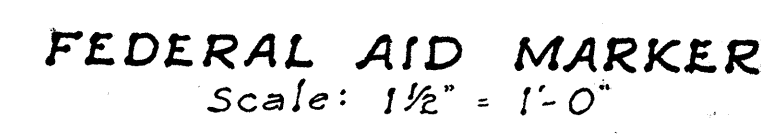


**STANDARD MASONRY DROP INTAKE**



**STANDARD MASONRY DROP INTAKE**



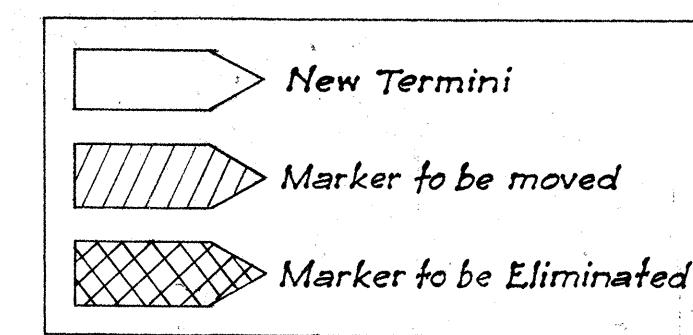
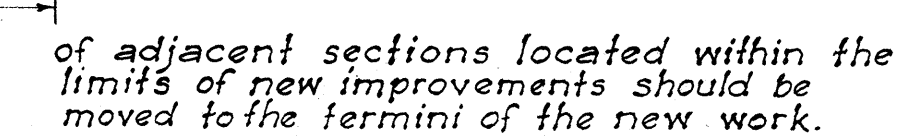
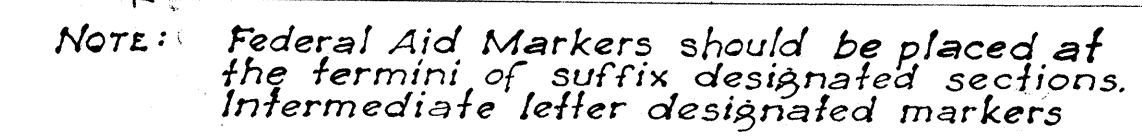
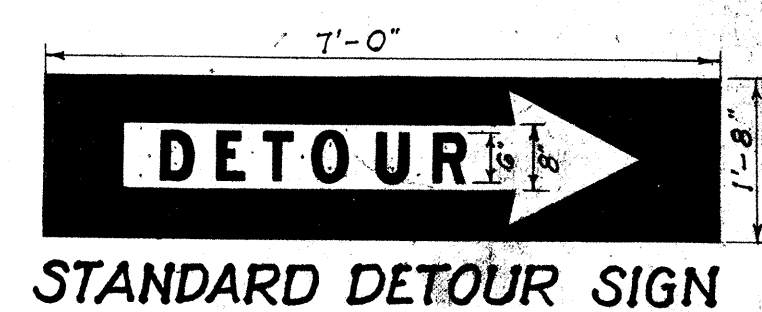
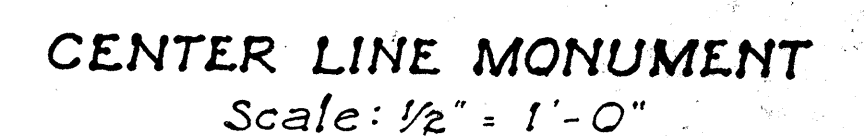
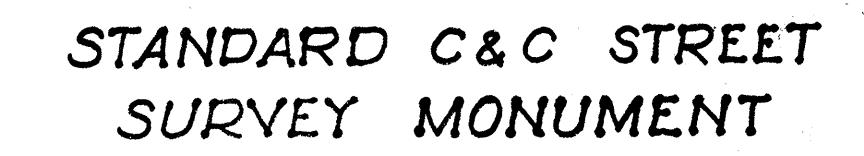
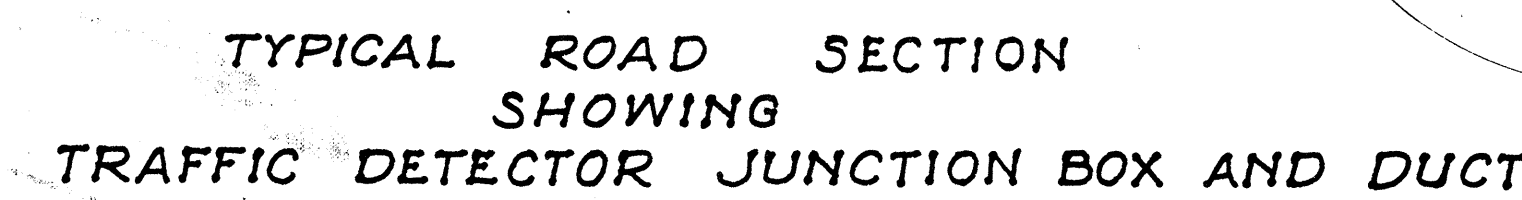
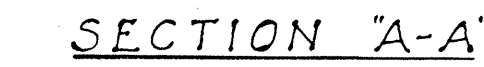
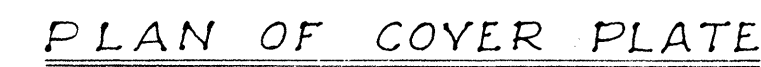


### DETAIL OF BASE FOR TRAFFIC STANDARD AND DISPATCHER PEDESTAL



NOTE: Length of Struts are based on 4"x4" timbers which is the minimum size recommended. If larger sills or compression caps are used, length of struts should be changed accordingly.

STRUTTING DIAGRAM & TABLE  
FOR  
CORRUGATED METAL PIPE CULVERT



The same procedure would be followed on each successive improvement until all markers for letter designated sections are eventually eliminated.

## METHOD OF MARKING F.A. PROJECTS AT OVERLAPS

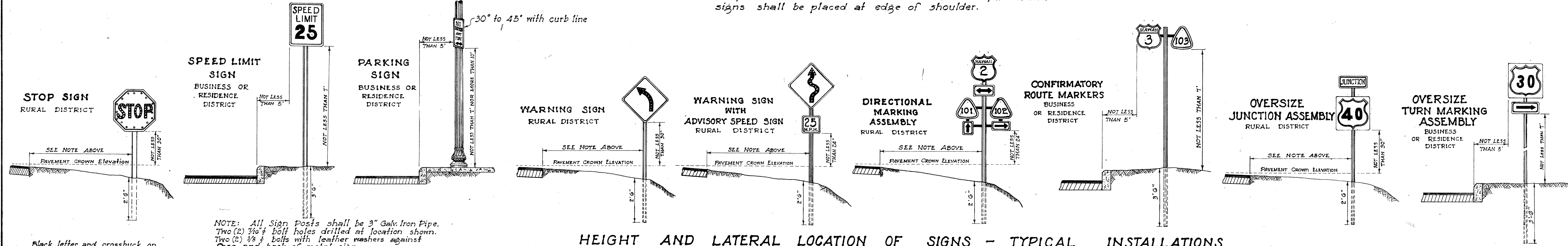
TERRITORIAL HIGHWAY DEPARTMENT  
TERRITORY OF HAWAII

STANDARD DETAILS

SCALES AS NOTED *N. Belt* May 31, 1949

APPROVED: \_\_\_\_\_  
Territorial Highway Engineer

NOTE: All signs shall be placed 10' from edge of pavement except where shoulder width is less than 10', in which case signs shall be placed at edge of shoulder.



### HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATIONS

Scale: 1" = 3'-0"

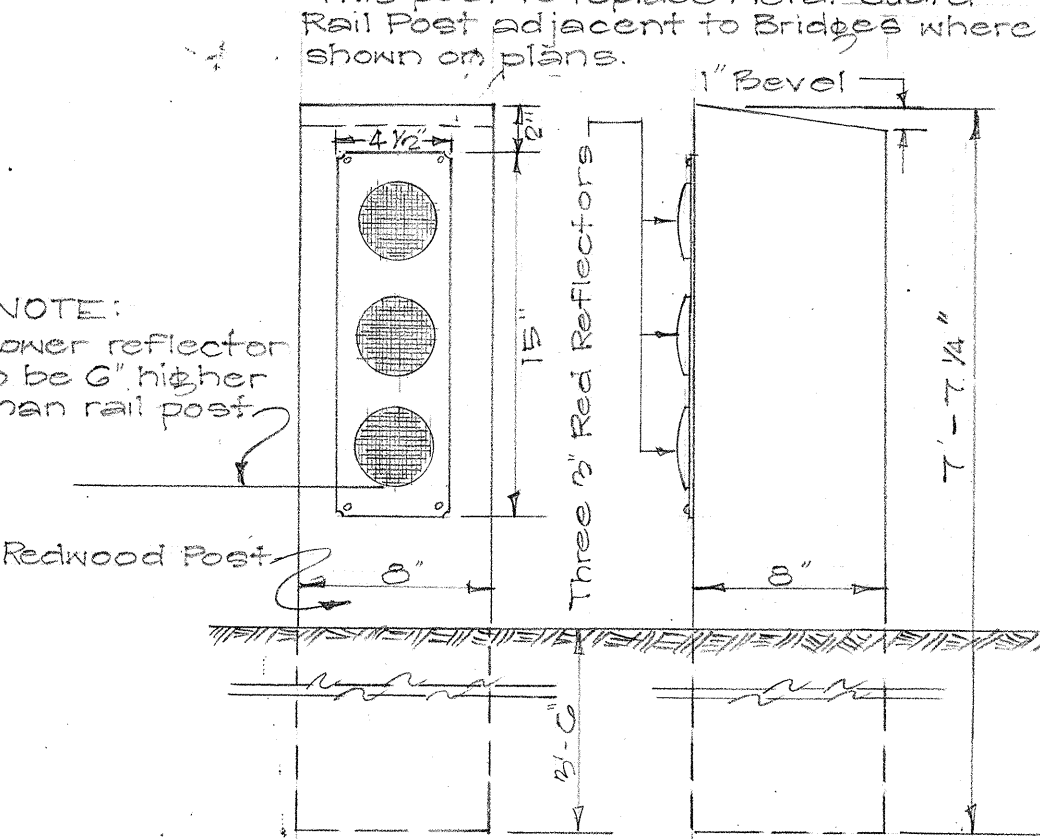
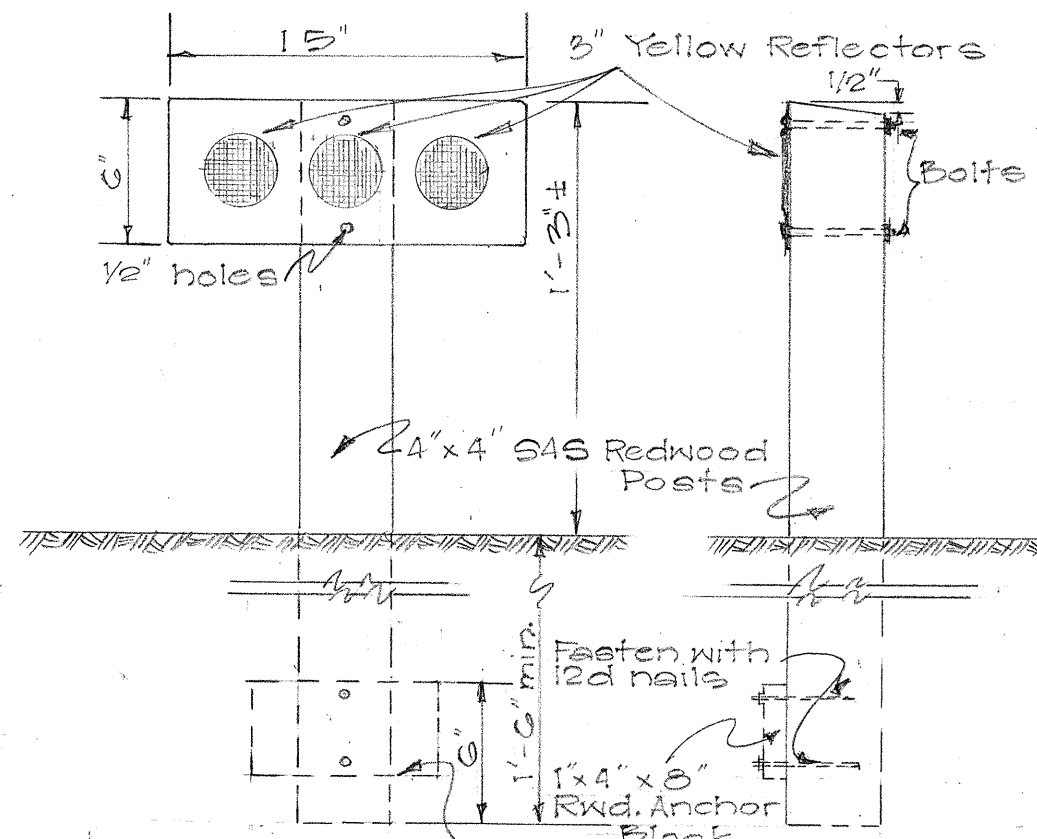
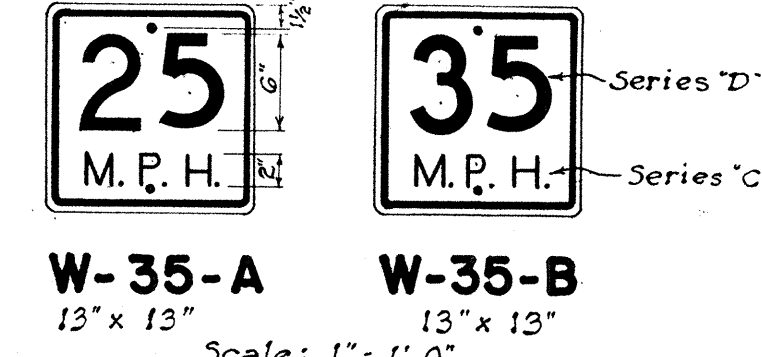
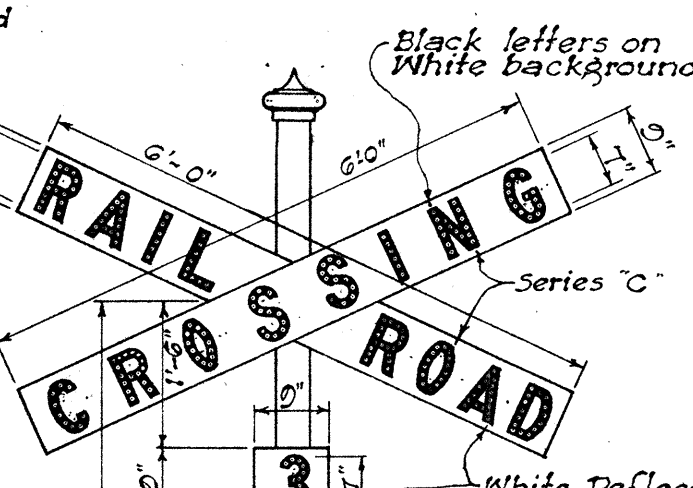
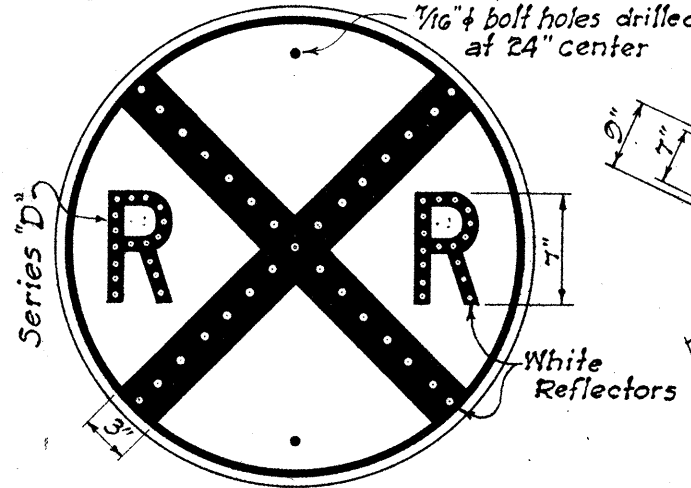
NOTE: This post to replace Metal Guard Rail Post adjacent to Bridges where shown on plans.

NOTE: Lower reflector to be 6" higher than rail post.

Black letter and cross on "Highway Yellow" background

NOTE: All Sign Posts shall be 3" Galv. Iron Pipe. Two (2) 1/2" bolt holes drilled at location shown. Two (2) 1/2" bolts with leather washers against face and back of metal sign.

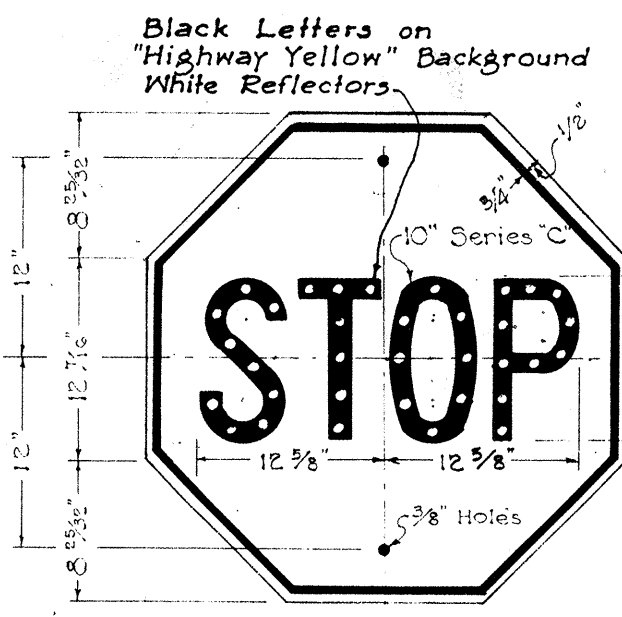
Black letters and figures on "Highway Yellow" background



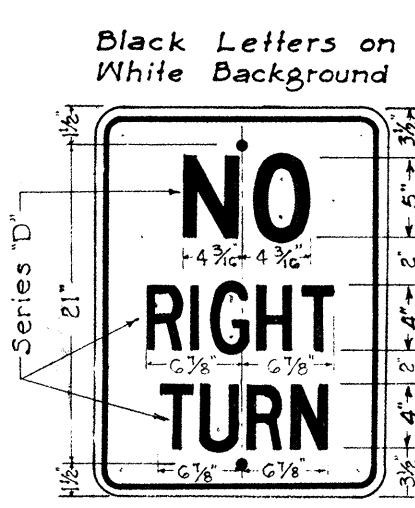
### DETAIL OF SIGNS

TERRITORIAL HIGHWAY DEPARTMENT  
TERRITORY OF HAWAII  
**REGULATORY & WARNING SIGNS**  
SCALE AS NOTED  
APPROVED: *Hubert*  
Territorial Highway Engineer  
May 31, 1949

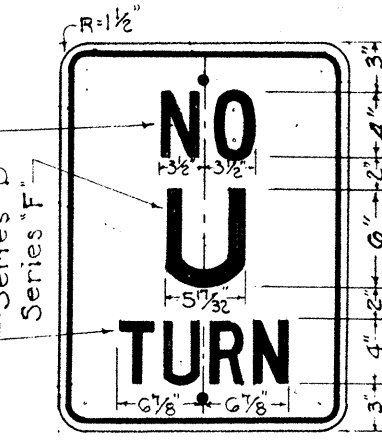
ORIGINAL PLAN  
DESIGNED BY  
TRACED BY  
QUANTITIES BY  
CHECKED BY



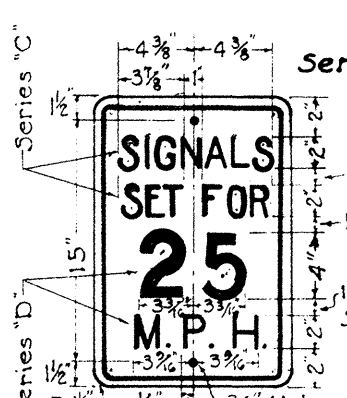
R-1  
30" x 30"



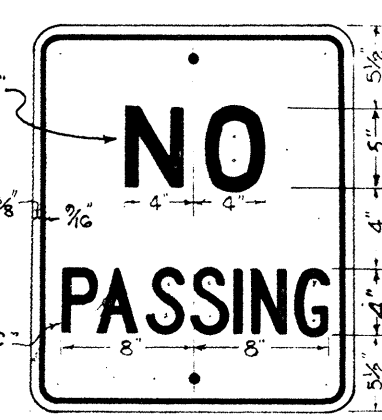
R-6  
18" x 24"



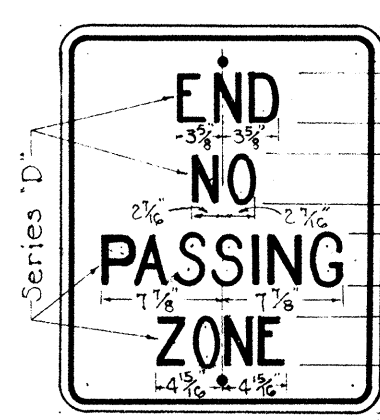
R-8  
18" x 24"



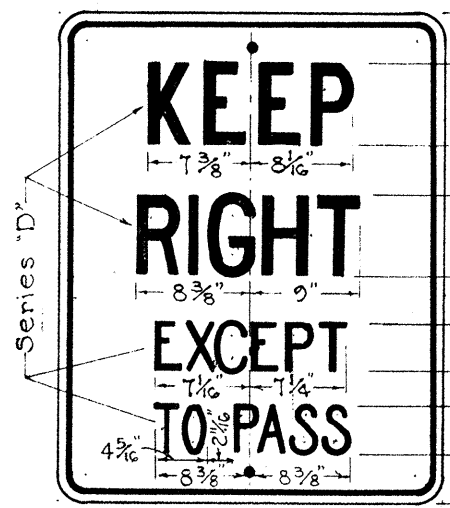
R-10  
12" x 18"



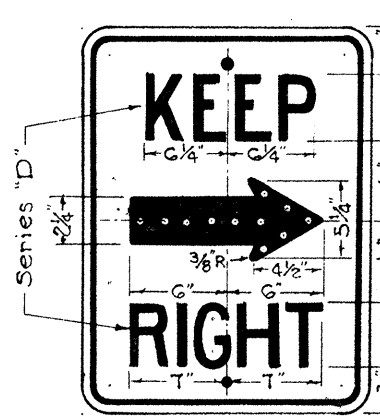
R-11  
20" x 24"



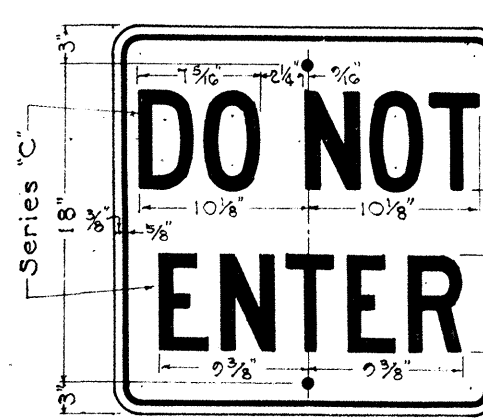
R-12  
20" x 24"



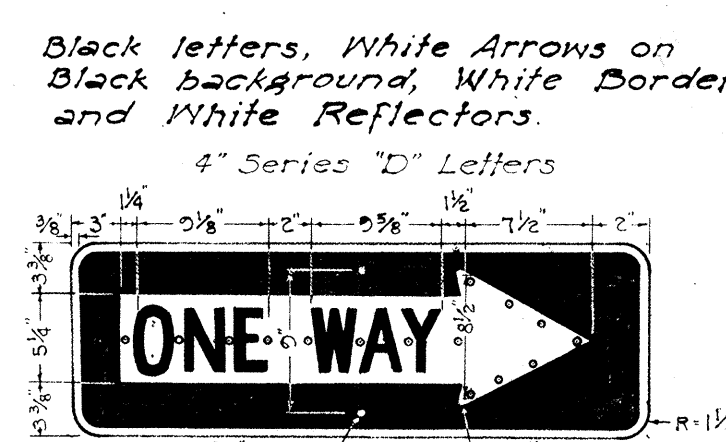
R-13  
24" x 30"



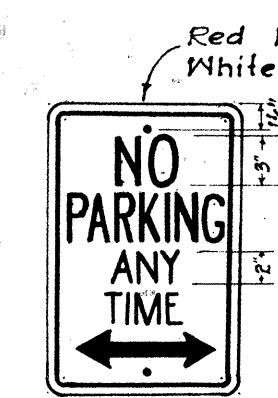
R-14  
18" x 24"



R-15  
24" x 24"



R-16-R  
R-16-L  
36" x 12"



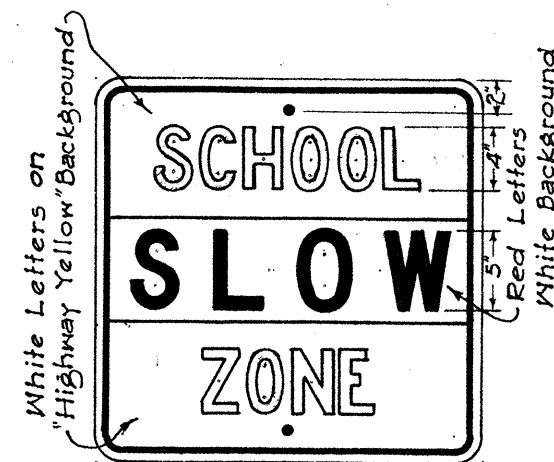
R-18  
12" x 18"



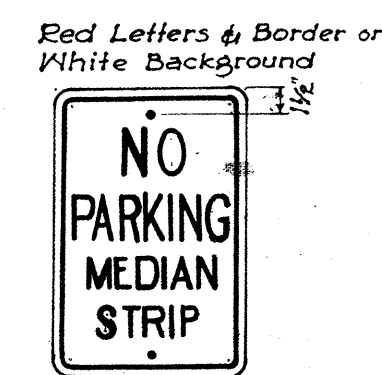
R-26  
12" x 18"



R-29  
24" x 30"



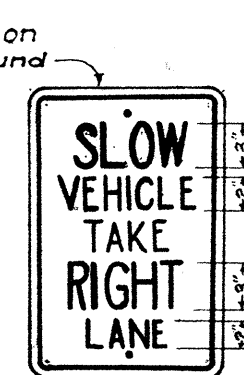
R-41-S  
24" x 24"



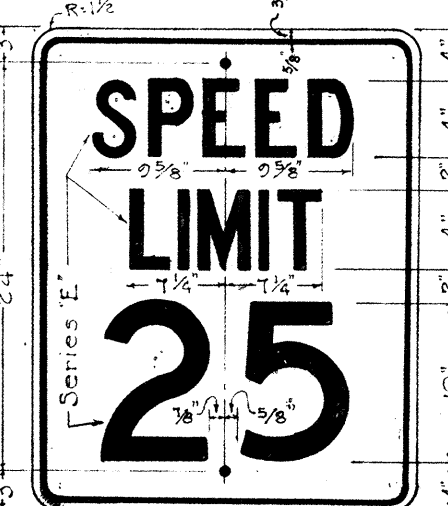
R-42-S  
12" x 18"



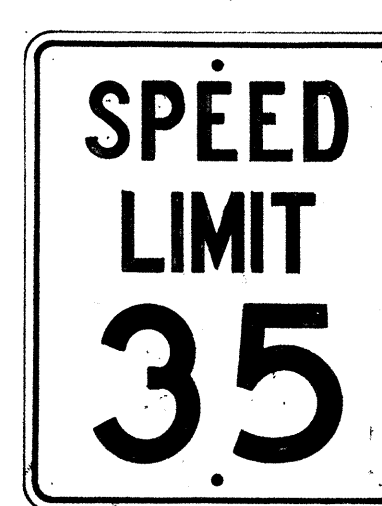
R-43-S  
12" x 18"



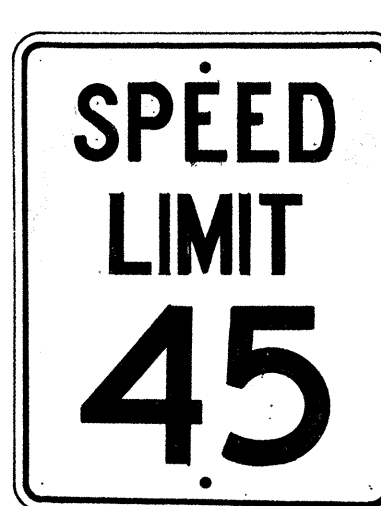
R-44-S  
12" x 18"



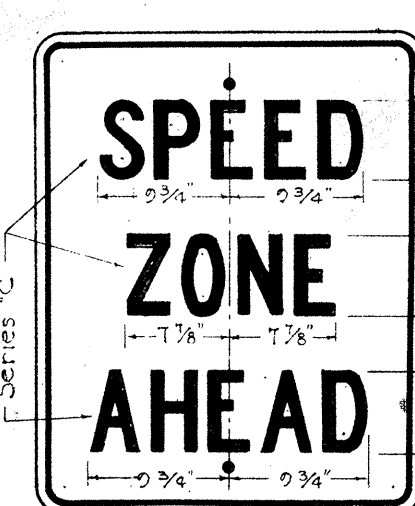
R-102-A  
24" x 30"



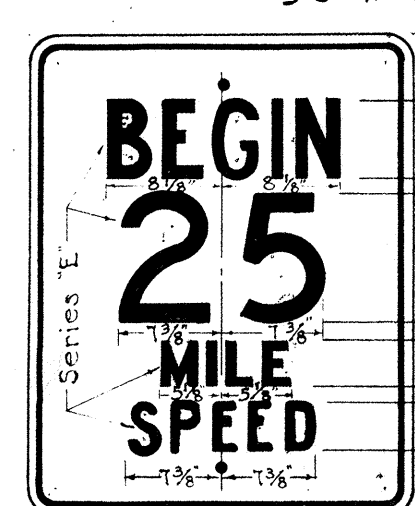
R-102-B  
24" x 30"



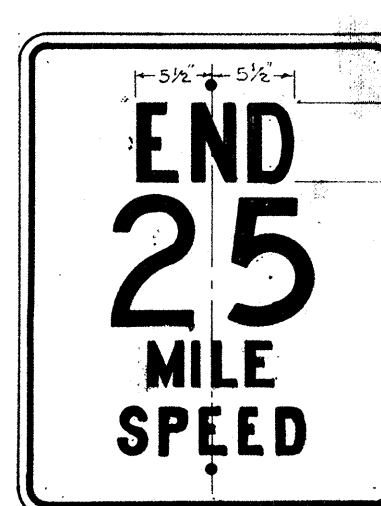
R-102-C  
24" x 30"



R-104  
24" x 30"



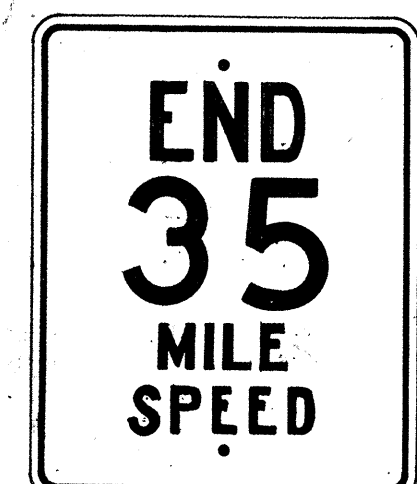
R-105-A  
24" x 30"



R-105-B  
24" x 30"



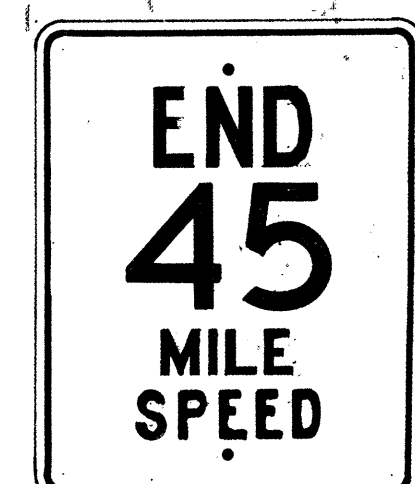
R-105-C  
24" x 30"



R-105-D  
24" x 30"



R-105-E  
24" x 30"



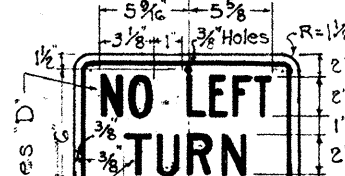
R-105-F  
24" x 30"



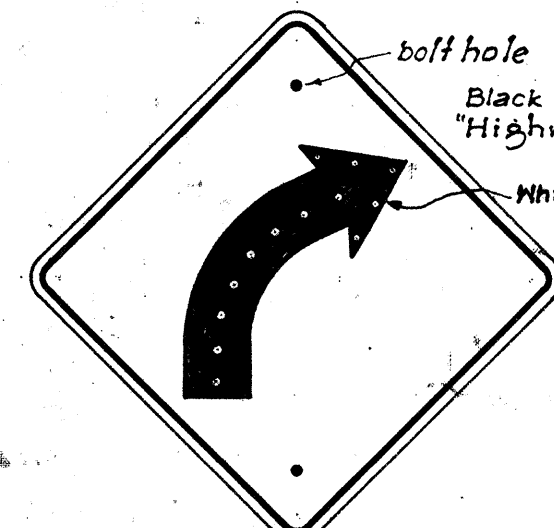
R-106  
24" x 30"



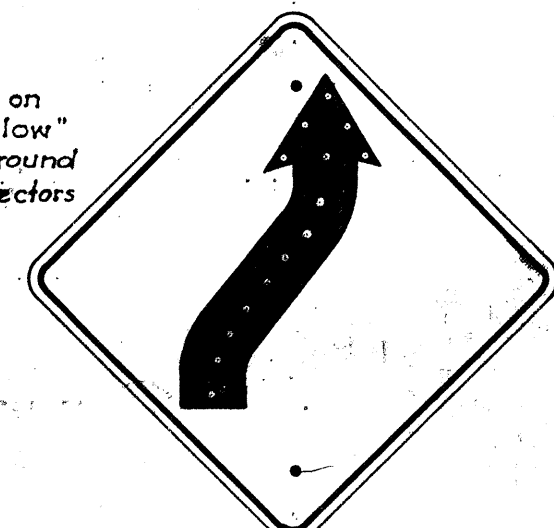
R-107-A  
24" x 30"



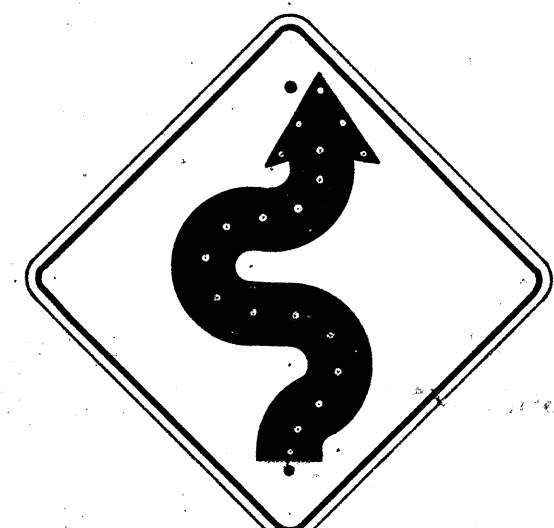
R-107  
14" x 9"



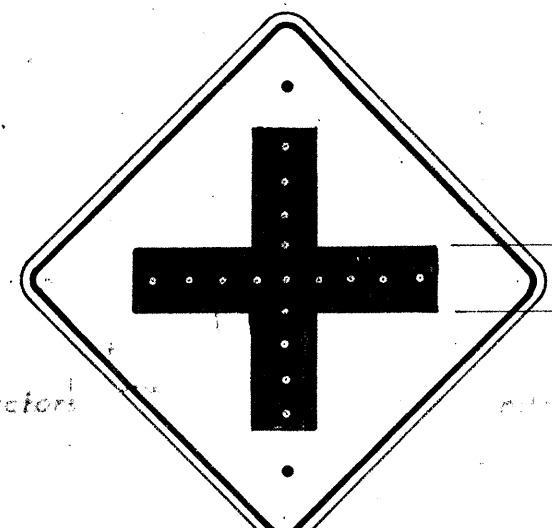
W-2-R  
\*W-2-L  
24" x 24"



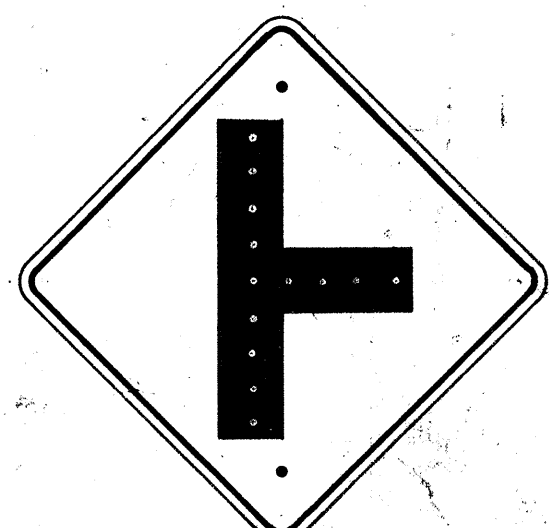
W-4-R  
\*W-4-L  
24" x 24"



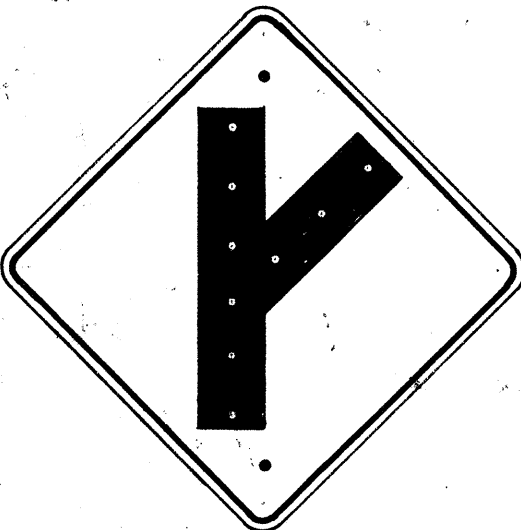
W-5-R  
\*W-5-L  
24" x 24"



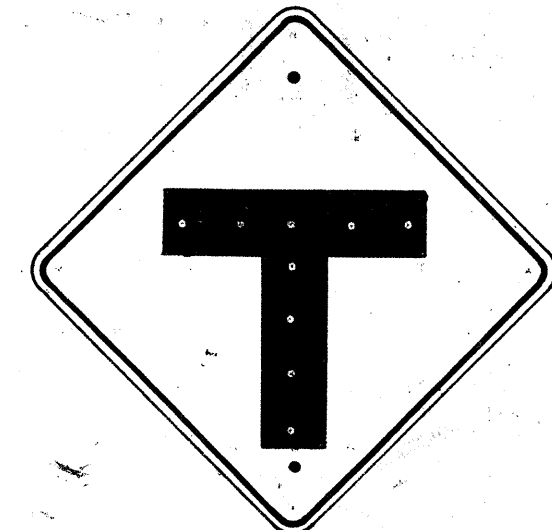
W-6  
24" x 24"



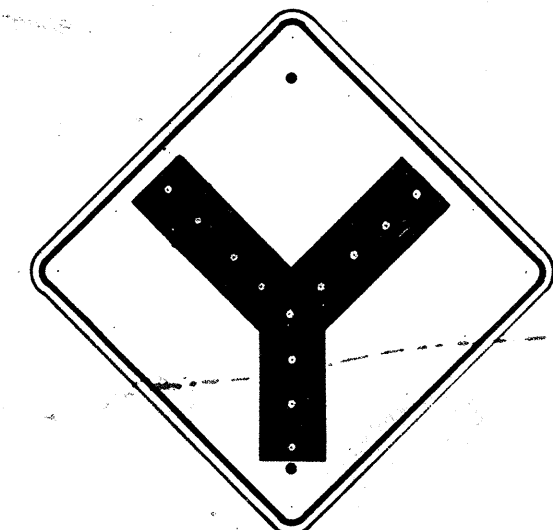
W-7  
24" x 24"



W-8-R  
\*W-8-L  
24" x 24"



W-9  
24" x 24"



W-10  
24" x 24"



W-13  
24" x 24"



W-14  
24" x 24"



W-14-A  
24" x 24"



W-19  
30" x 30"



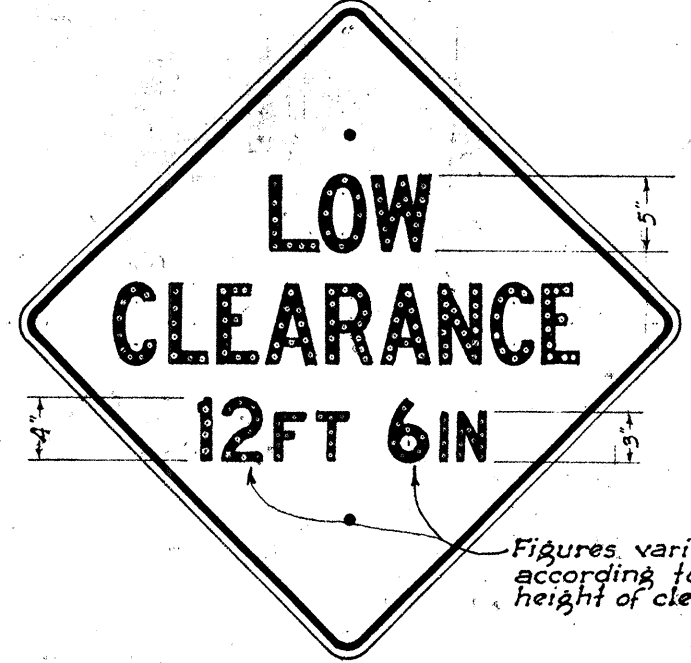
W-20  
30" x 30"



W-21  
30" x 30"



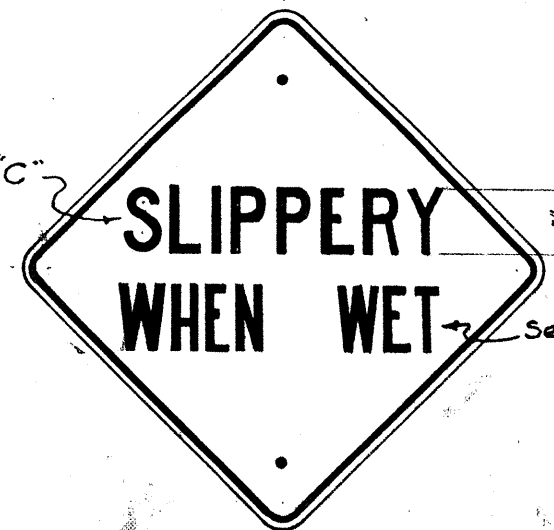
W-22  
24" x 24"



W-24  
30" x 30"



W-25  
24" x 24"



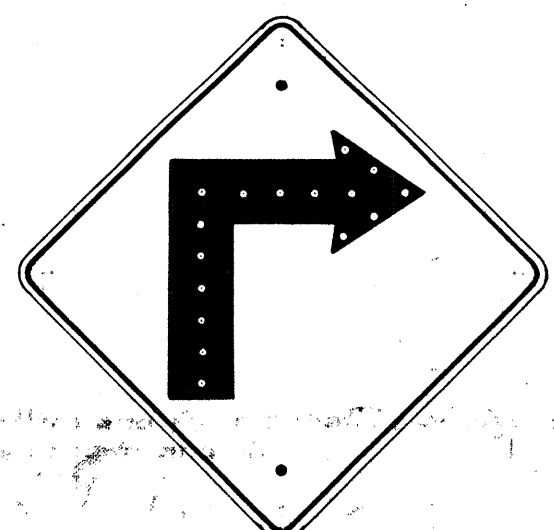
W-29  
24" x 24"



W-38  
24" x 24"



W-39  
24" x 24"



W-1-R  
\*W-1-L  
24" x 24"

All letters and figures shall be of size and design shown and shall conform with "Standard Alphabets for Highway Signs" as set forth by the Public Roads Administration, Federal Works Agency. Series "C" letters and Series "D" numerals shall be used except where noted.

Note: All Regulatory (R) signs shall have black letters on a white background except where noted. All Warning (W) signs shall have black letters and figures on a "Highway Yellow" background. \*Signs shall be similar but opposite in direction. See Specifications for Materials and Finish.

TERRITORIAL HIGHWAY DEPARTMENT  
TERRITORY OF HAWAII  
REGULATORY & WARNING SIGNS  
Scale: 1" = 1'  
APPROVED: *[Signature]* May 31, 1949  
TERRITORIAL HIGHWAY ENGINEER

DATE: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
NOTE BOOK: \_\_\_\_\_  
QUANTITIES CHECKED BY: \_\_\_\_\_