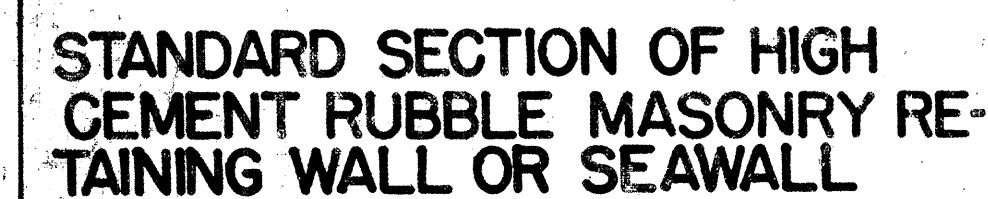
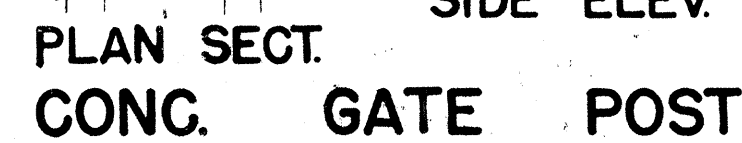


Min. toe depth
H varies - limited to 25 ft for 0.3 base



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.

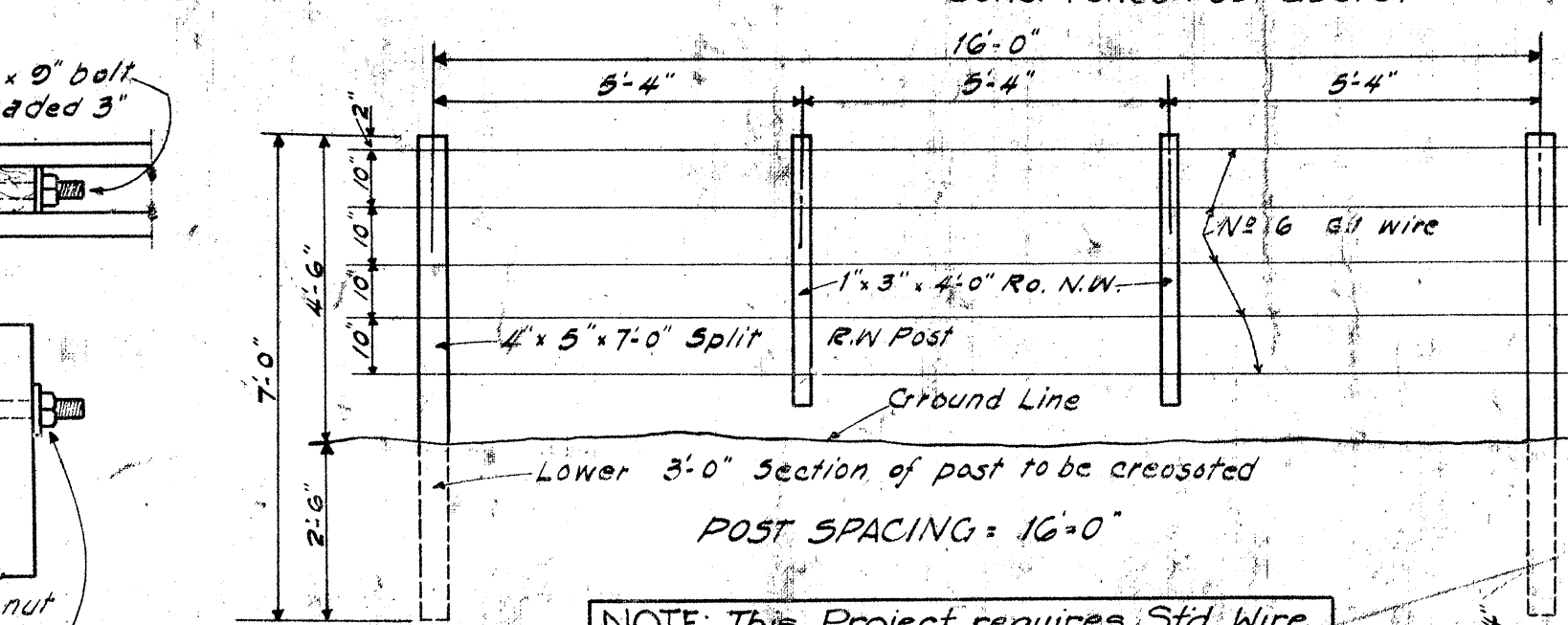
NOTE: Dimension "X" is assumed as 2'-4" in figuring the above quantities.



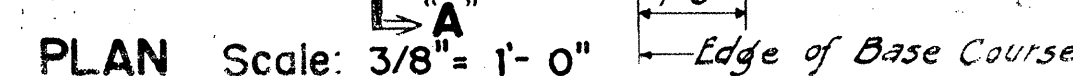
Contractor may either cast holes for fastening fence wire or cast post with $\frac{3}{4}$ " - $\frac{1}{2}$ " round grooves on 2 sides.



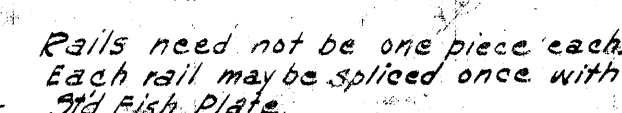
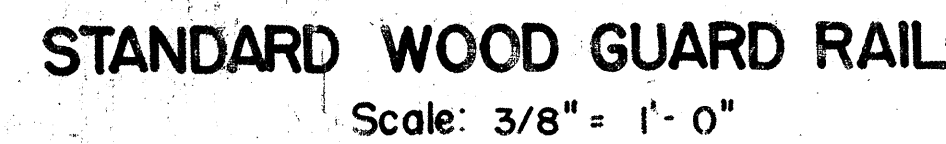
NOTE! Fence must be anchored against pull at least every 500 ft. and also at top of rise and bottom of dip.



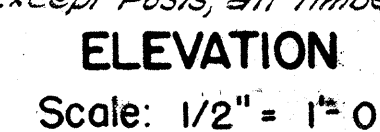
Scale: $\frac{3}{8}" = 1' - 0"$



NOTE: Use TYPE "A" if neither TYPE "A" or "B" is specified.



NOTE!
Volume for one head
wall is for corrugated
pipe culvert



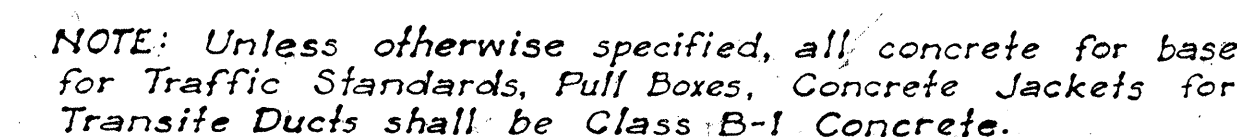
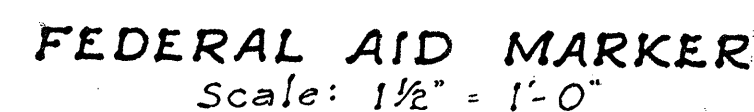
STANDARD DETAILS

APPROVED: *[Signature]*

SHEET No 1 OF 4 SHEETS

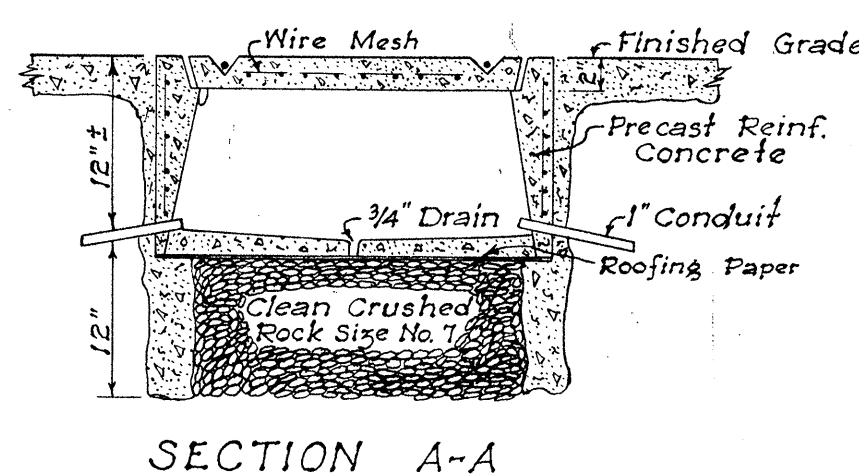
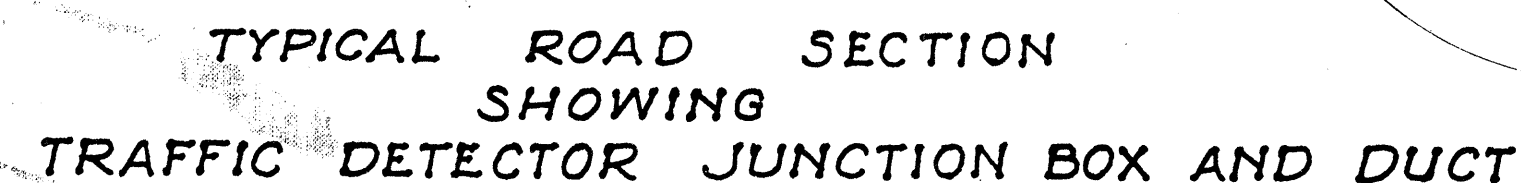
RESUME

100

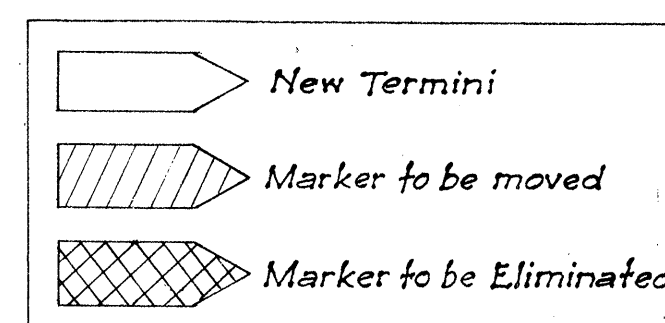
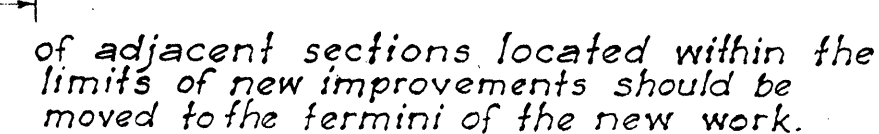
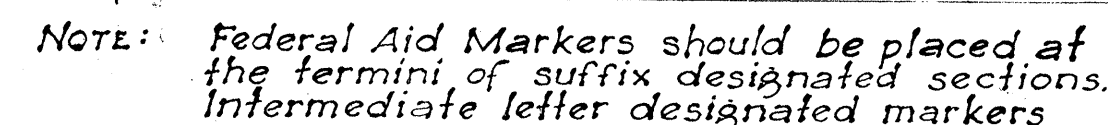
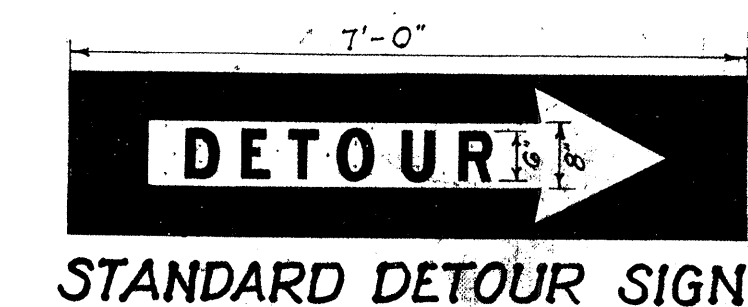
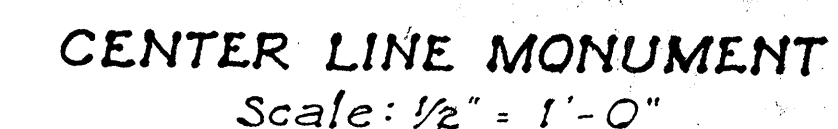
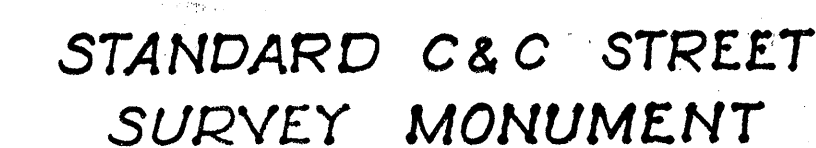


Diameter of Pipe in inches	Length of Struts in inches	Spacing of Struts in ft. for			Various Heights	
		FILL 1' to 5'	FILL 5' to 10'	FILL 10 to 20'	FILL 20 to 30'	FILL Over 30'
12	38 3/8	—	—	—	4	—
14	44 3/4	—	G	—	4	—
16	50	G	G	G	4	—
20	57 1/4	G	G	G	4	—
22	63 3/8	G	G	G	5	3.5
24	69 1/2	G	G	G	4.5	3.5
30	76 1/2	G	G	G	4	3

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.

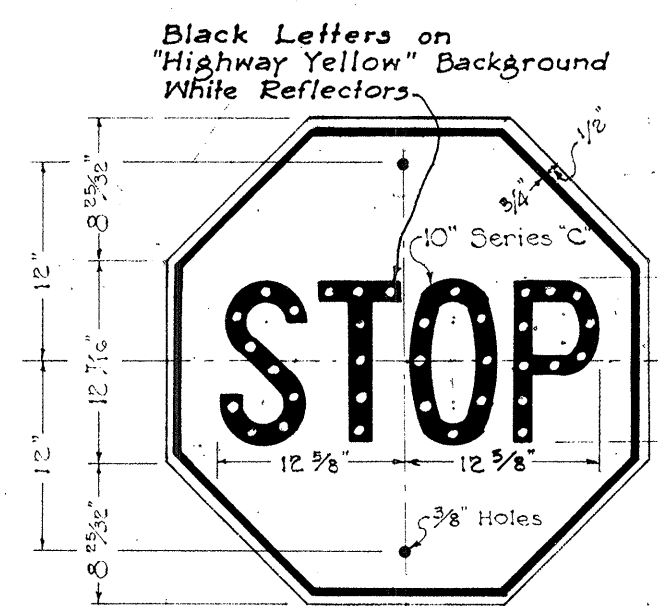


DETAIL OF PULL BOX
Scale: 1" = 1'-0"

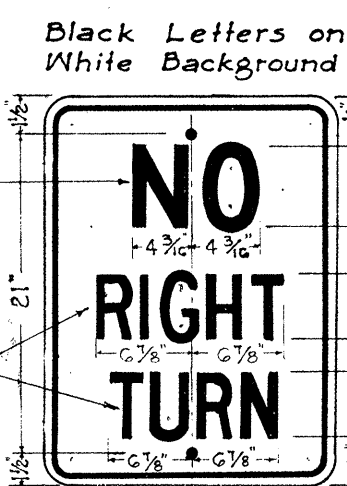


The same procedure would be followed on each successive improvement until all markers for letter designated sections are eventually eliminated.

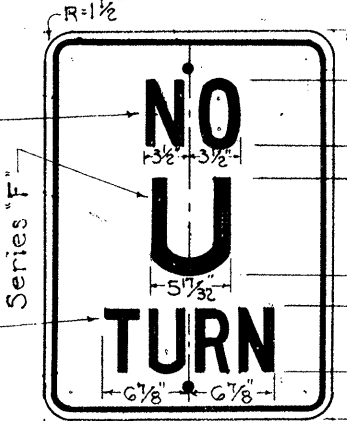
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
STANDARD DETAILS
SCALES AS NOTED
APPROVED: *[Signature]* May 31, 19
Territorial Highway Engineer
SHEET NO. OF SHEETS.



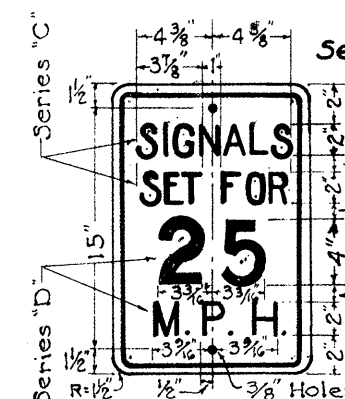
R-1
30" x 30"



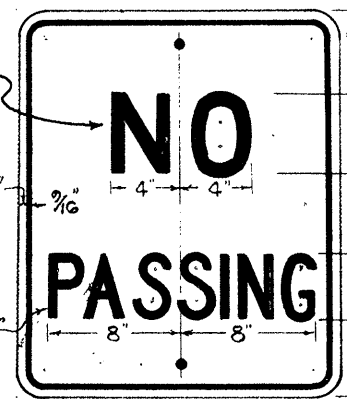
R-6
18" x 24"



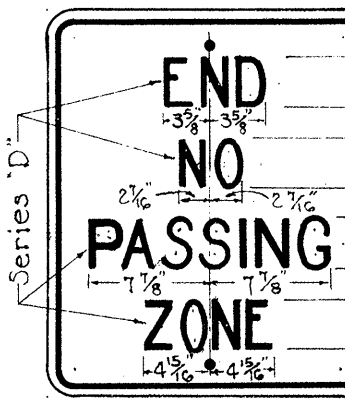
R-8
18" x 24"



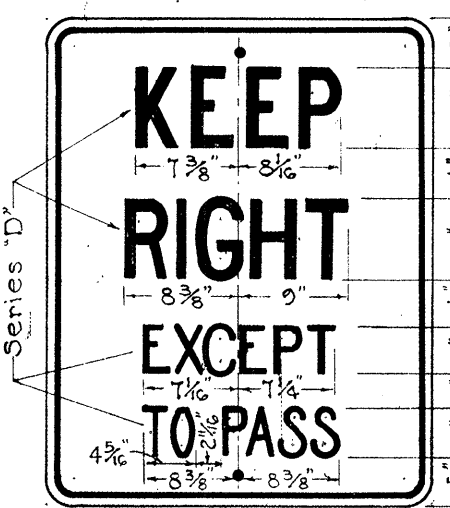
R-10
12" x 18"



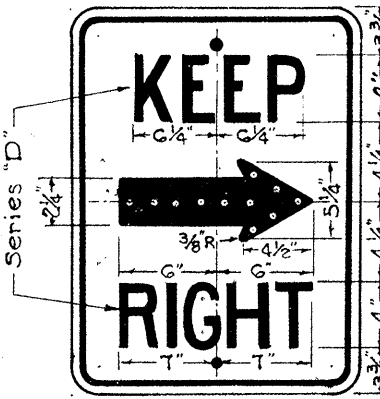
R-11
20" x 24"



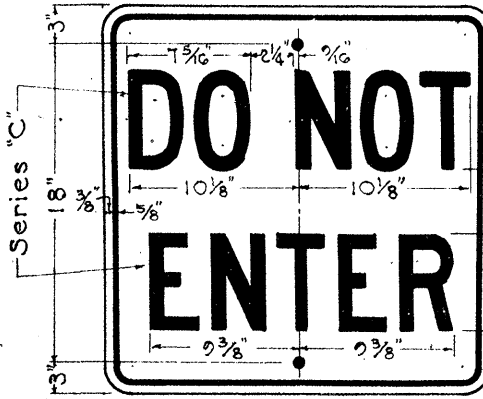
R-12
20" x 24"



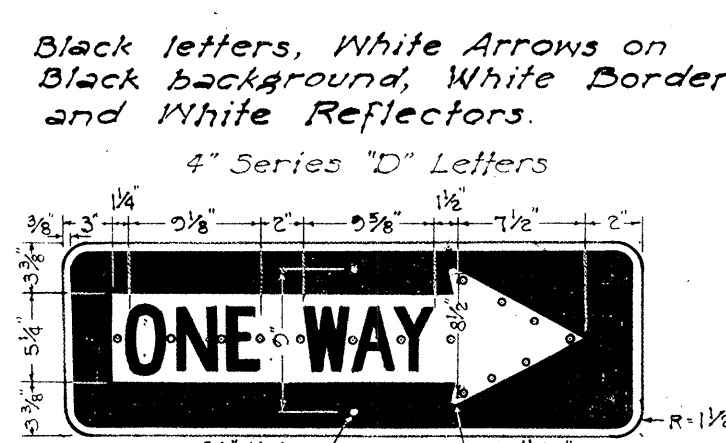
R-13
24" x 30"



R-14
18" x 24"



R-15
24" x 24"



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



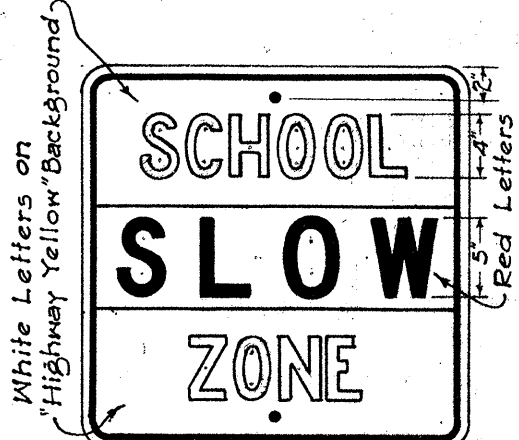
R-18
12" x 18"



R-26
12" x 18"



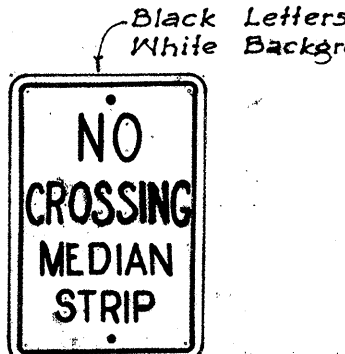
R-29
24" x 30"



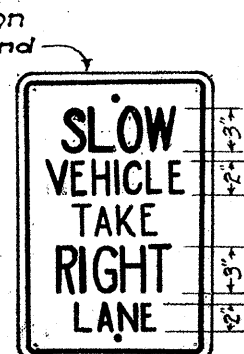
R-41-S
24" x 24"



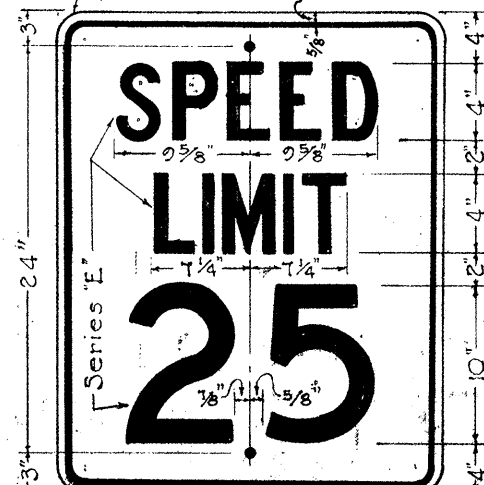
R-42-S
12" x 18"



R-43-S
12" x 18"



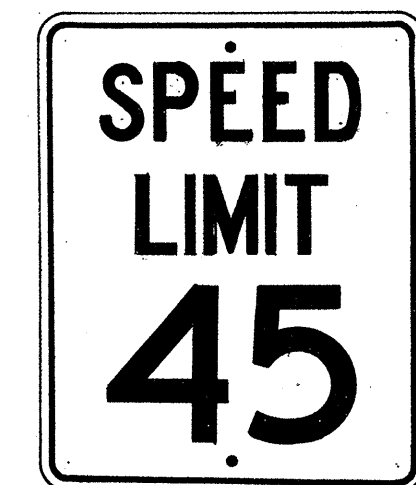
R-44-S
12" x 18"



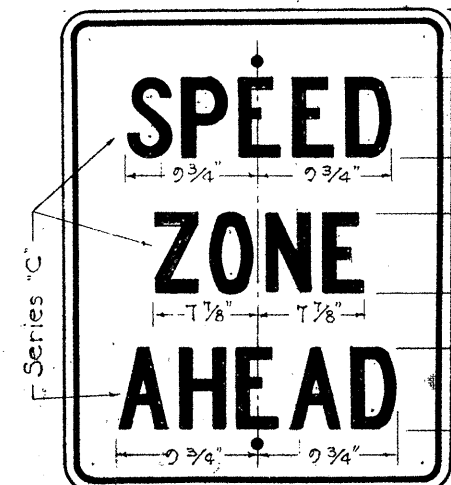
R-102-A
24" x 30"



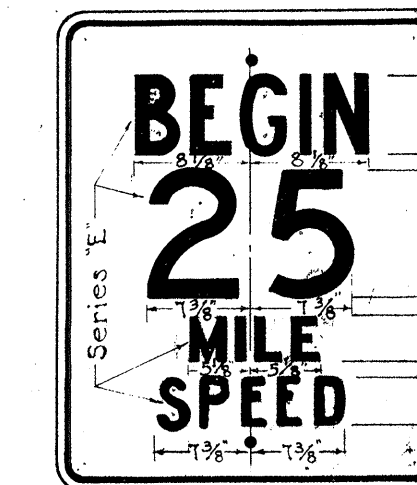
R-102-B
24" x 30"



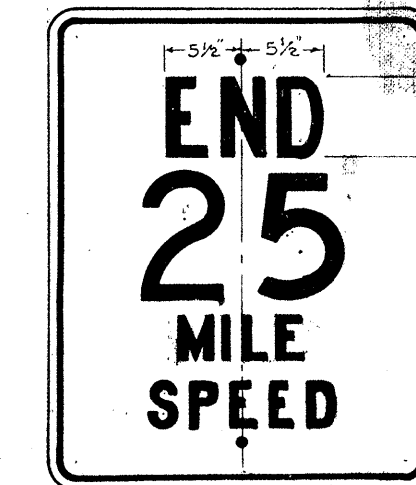
R-102-C
24" x 30"



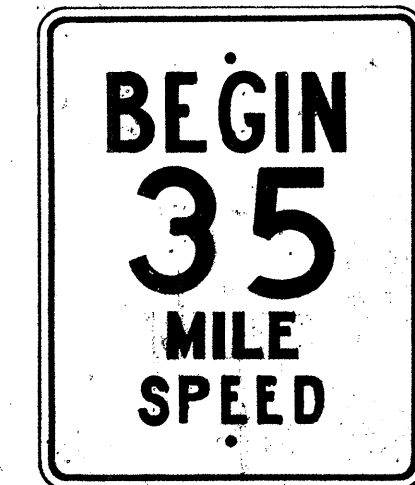
R-104
24" x 30"



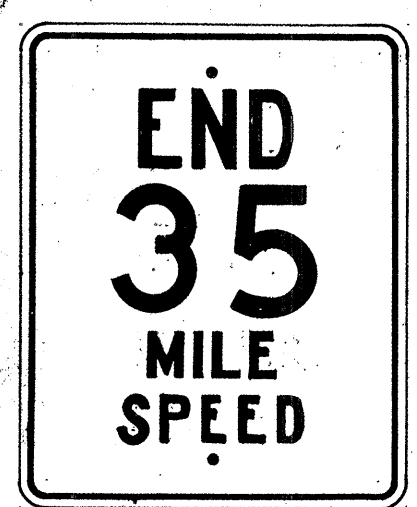
R-105-A
24" x 30"



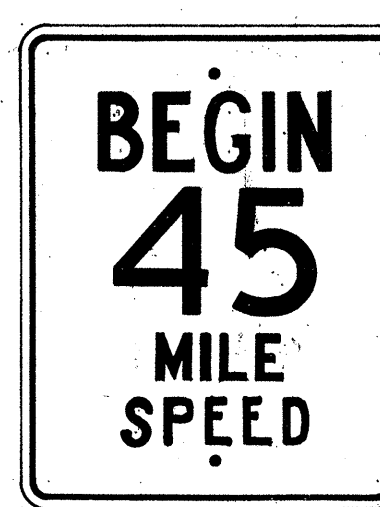
R-105-B
24" x 30"



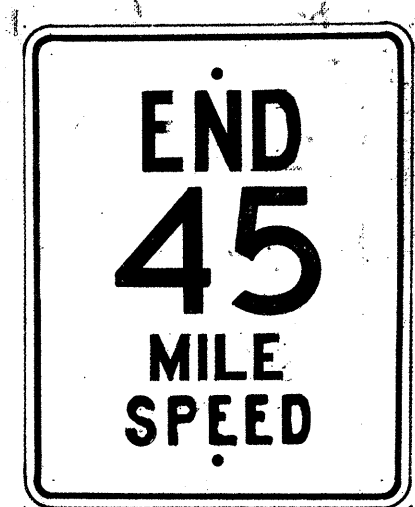
R-105-C
24" x 30"



R-105-D
24" x 30"



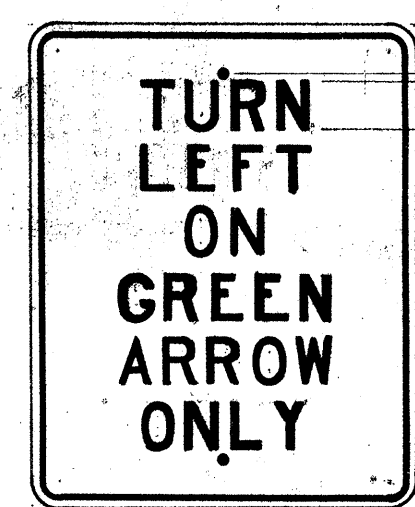
R-105-E
24" x 30"



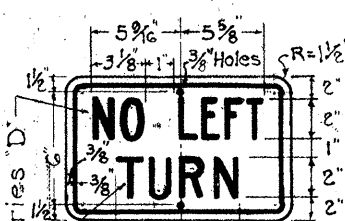
R-105-F
24" x 30"



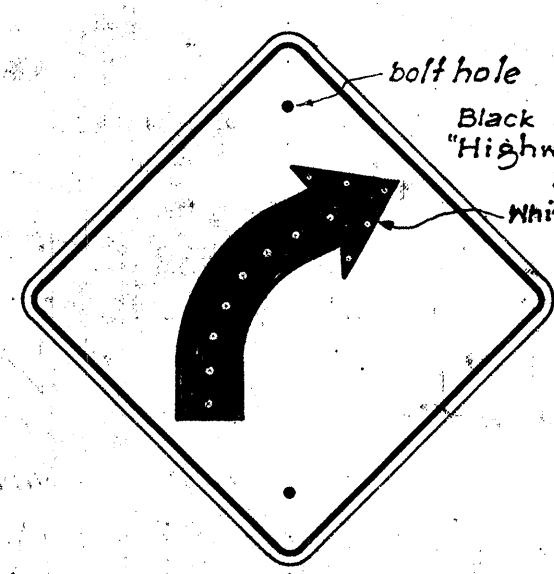
R-106
24" x 30"



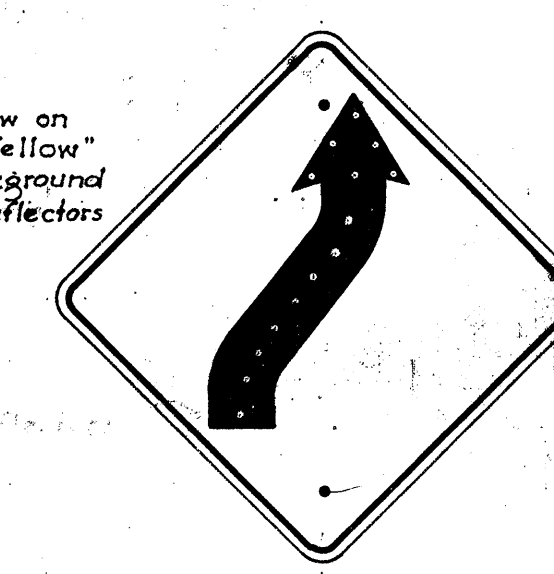
R-107-A
24" x 30"



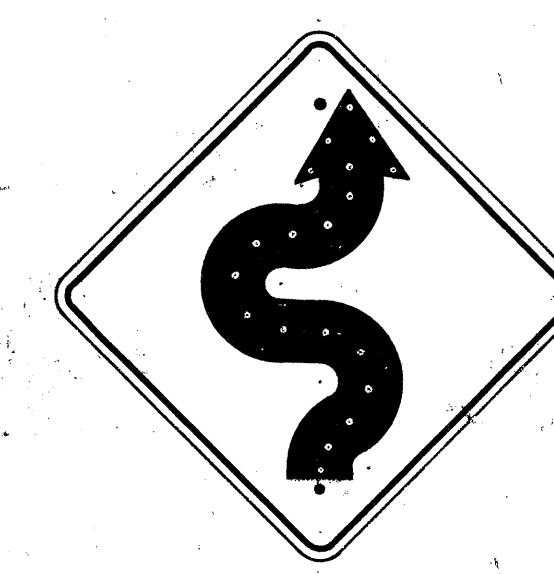
R-107
14" x 9"



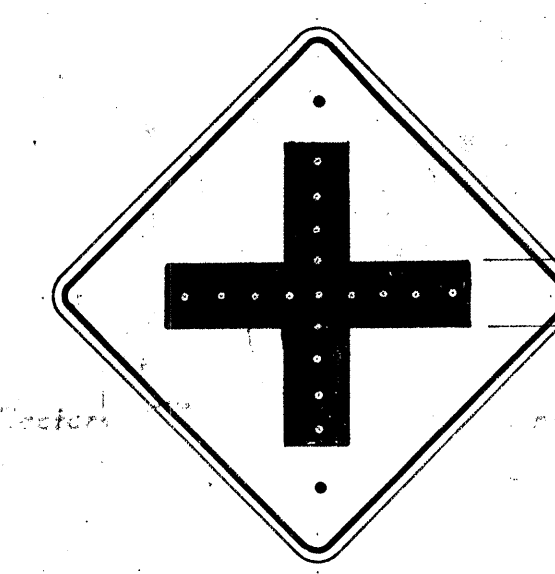
W-2-R
*W-2-L
24" x 24"



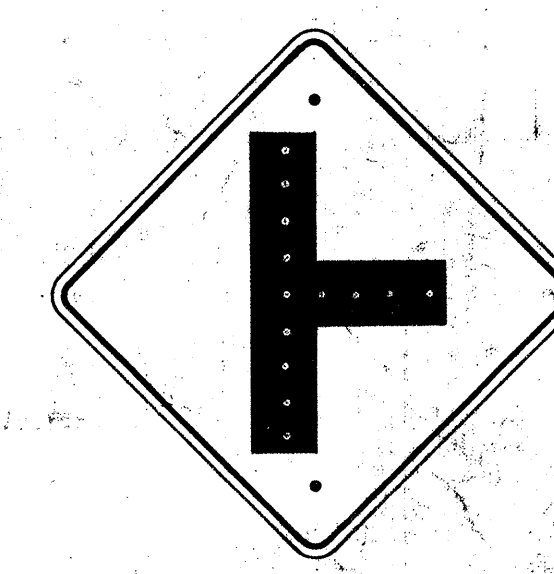
W-4-R
*W-4-L
24" x 24"



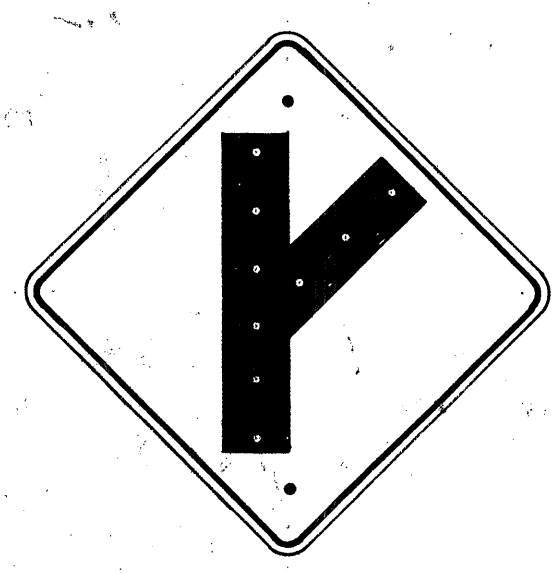
W-5-R
*W-5-L
24" x 24"



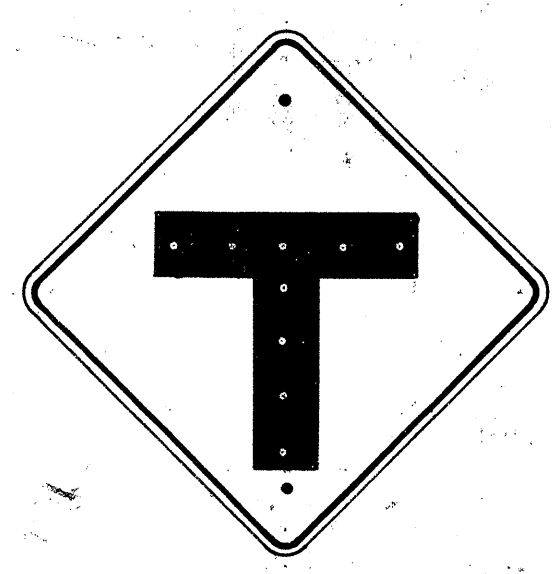
W-6
24" x 24"



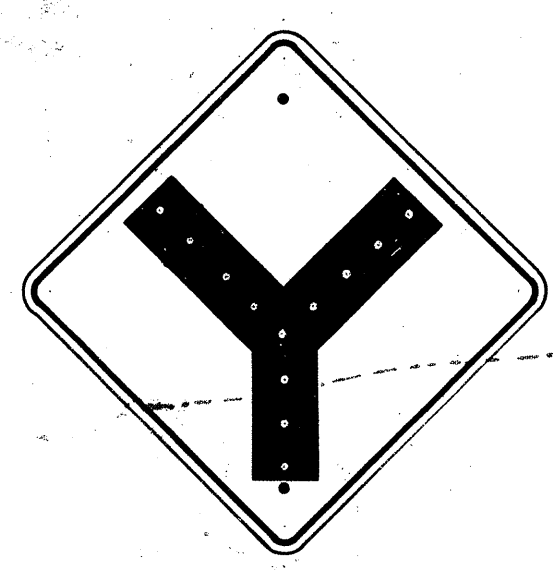
W-7
24" x 24"



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"



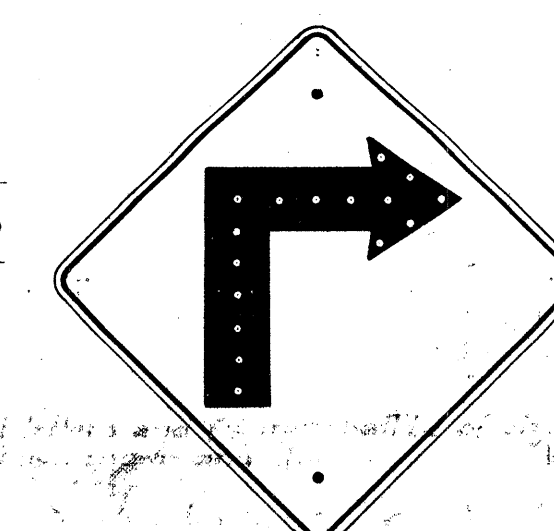
W-29
24" x 24"



W-38
24" x 24"



W-39
24" x 24"



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

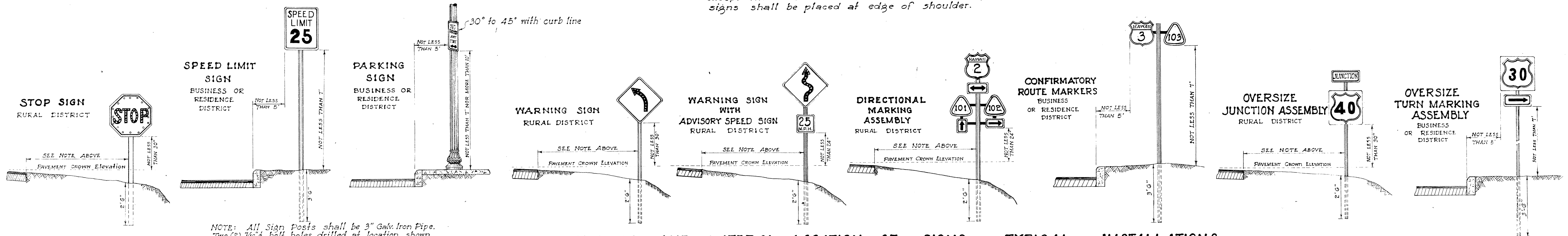
All letters and figures shall be of size and design shown and shall conform with "Standard Alphabets for Highway Signs" as set forth by the Public Roads Administration, Federal Works Agency. Series "C" letters and Series "D" numerals shall be used except where noted.

Note: All Regulatory (R) signs shall have black letters on a white background except where noted. All Warning (W) signs shall have black letters or 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

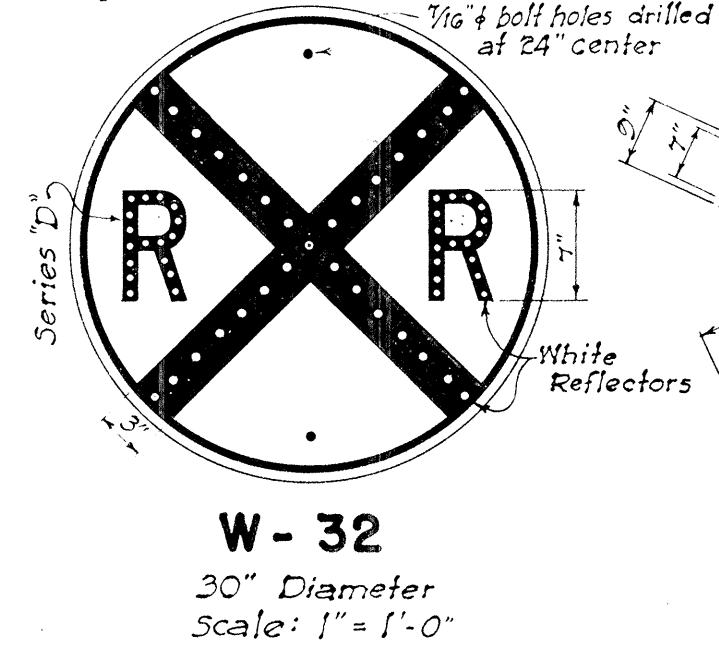
ORIGINAL PLAN
DESIGNED BY
DRAWN BY
QUANTITIES BY
CHECKED BY
DATE

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.

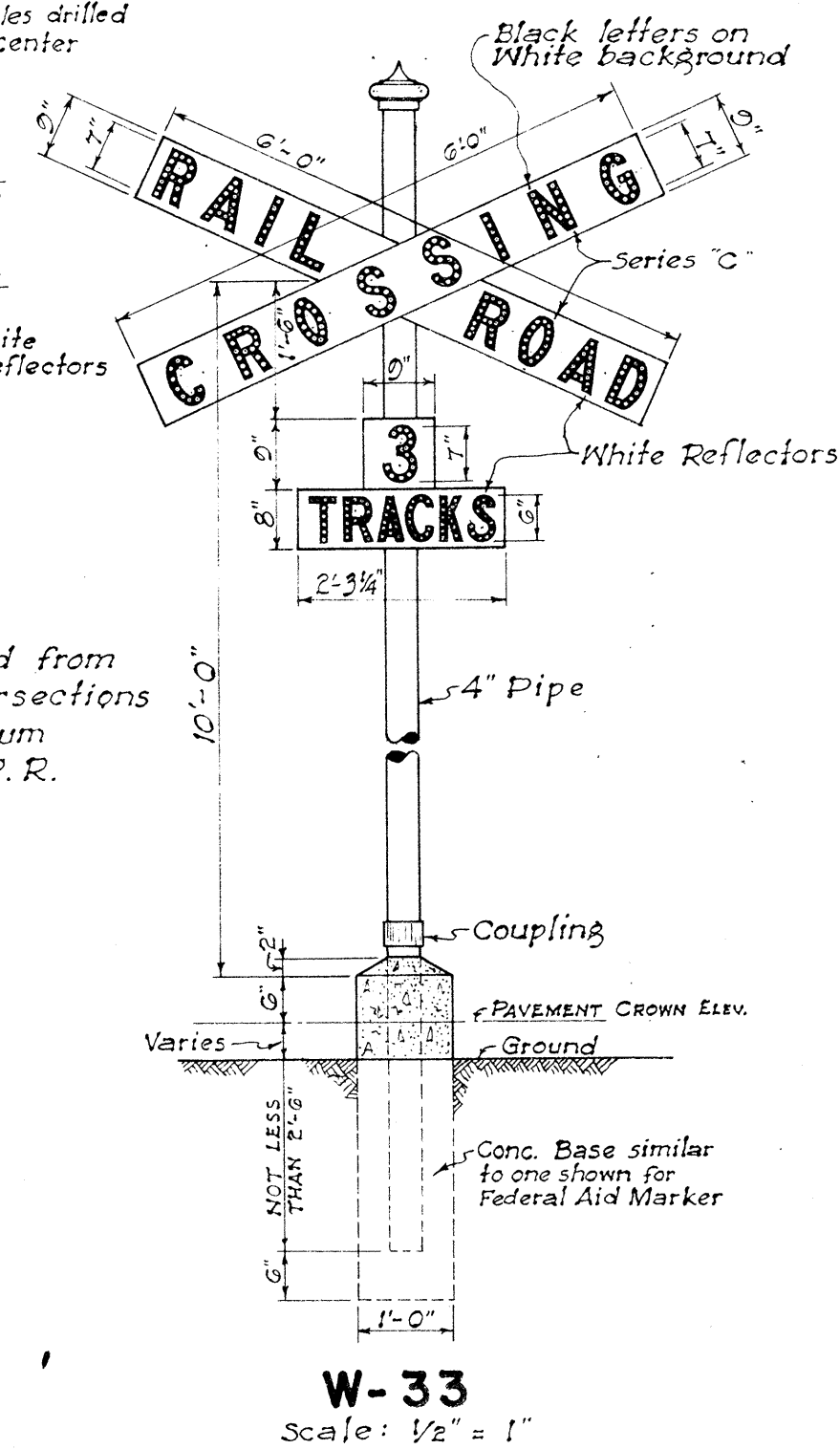


HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATIONS
Scale: 1" = 3'-0"

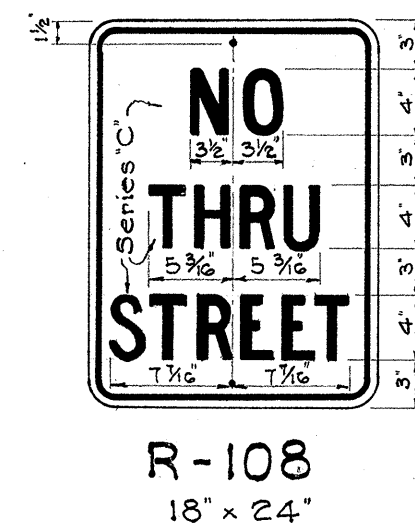
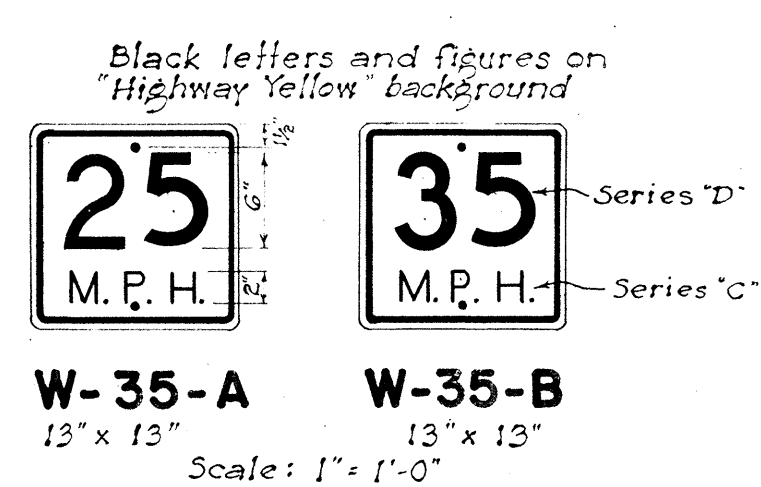
Black letter and crossbuck on "Highway Yellow" background
1/8" bolt holes drilled at 24" center



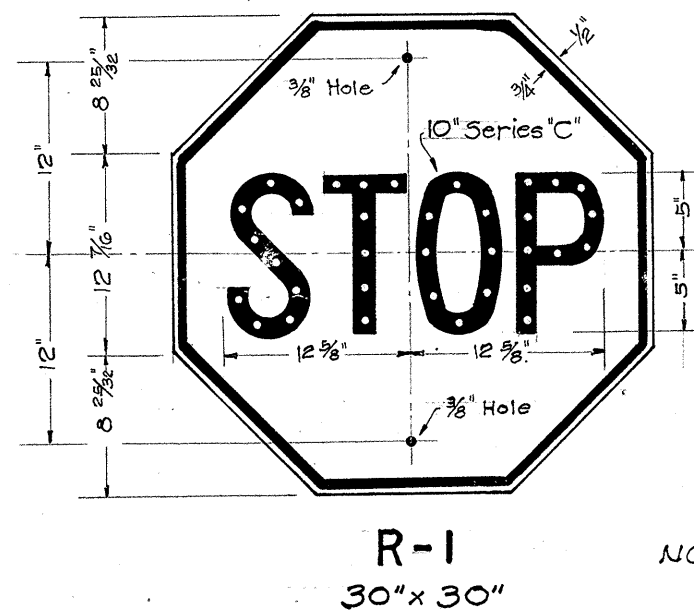
NOTE: This sign shall be placed from 300 to 500 feet from R. R. intersections in rural areas and a minimum distance of 100 feet from R. R. intersections in Residence or Business districts.



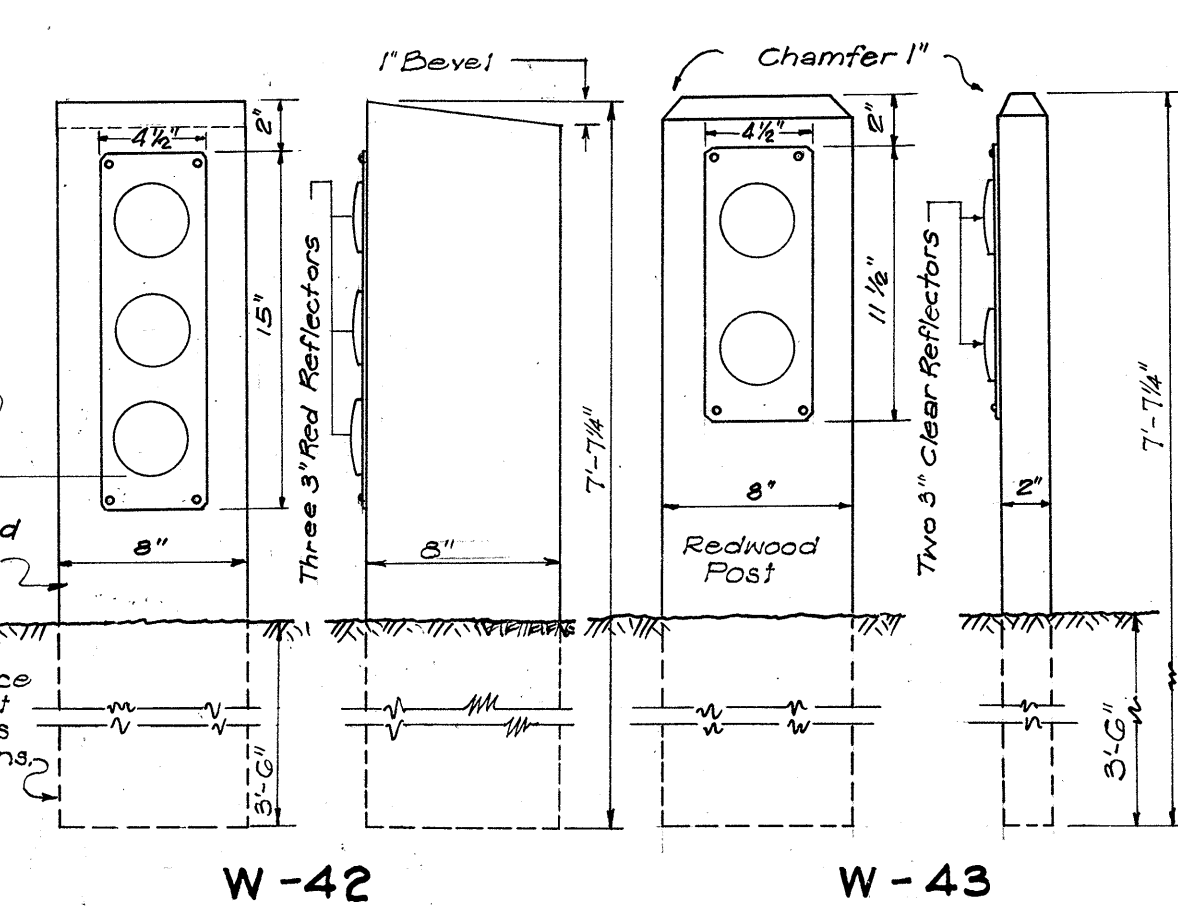
Black letters on White background



Black letters on "Highway Yellow" background White Reflectors



NOTE: Lower reflector to be 6" higher than rail post
NOTE: This post to replace Metal Guard Rail Post adjacent to Bridges where shown on plans



NOTE: This marker shall be installed opposite and at the same height as marker W-42

- Note:
1. All letters and figures shall be of size 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.
 2. All Regulatory (R) signs shall have black letters on a white background except where noted.
 3. All Warning (W) signs shall have black letters or figures on a Highway Yellow background.
 4. See Specifications for Materials and Finish.

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
QUANTITIES CHECKED BY	
CHECKED BY	

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