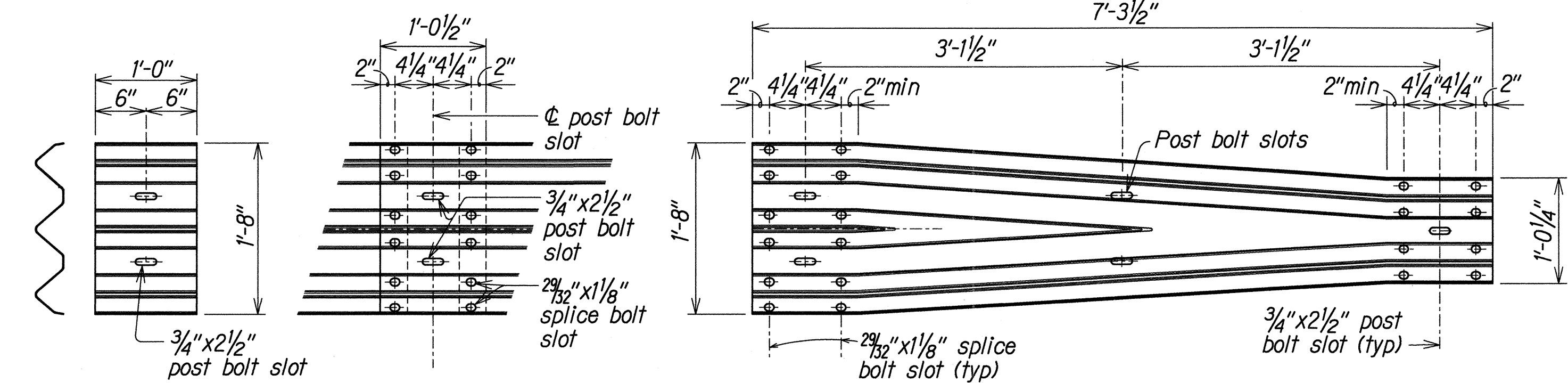


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-02-00M	2002	9	30

NOTES:

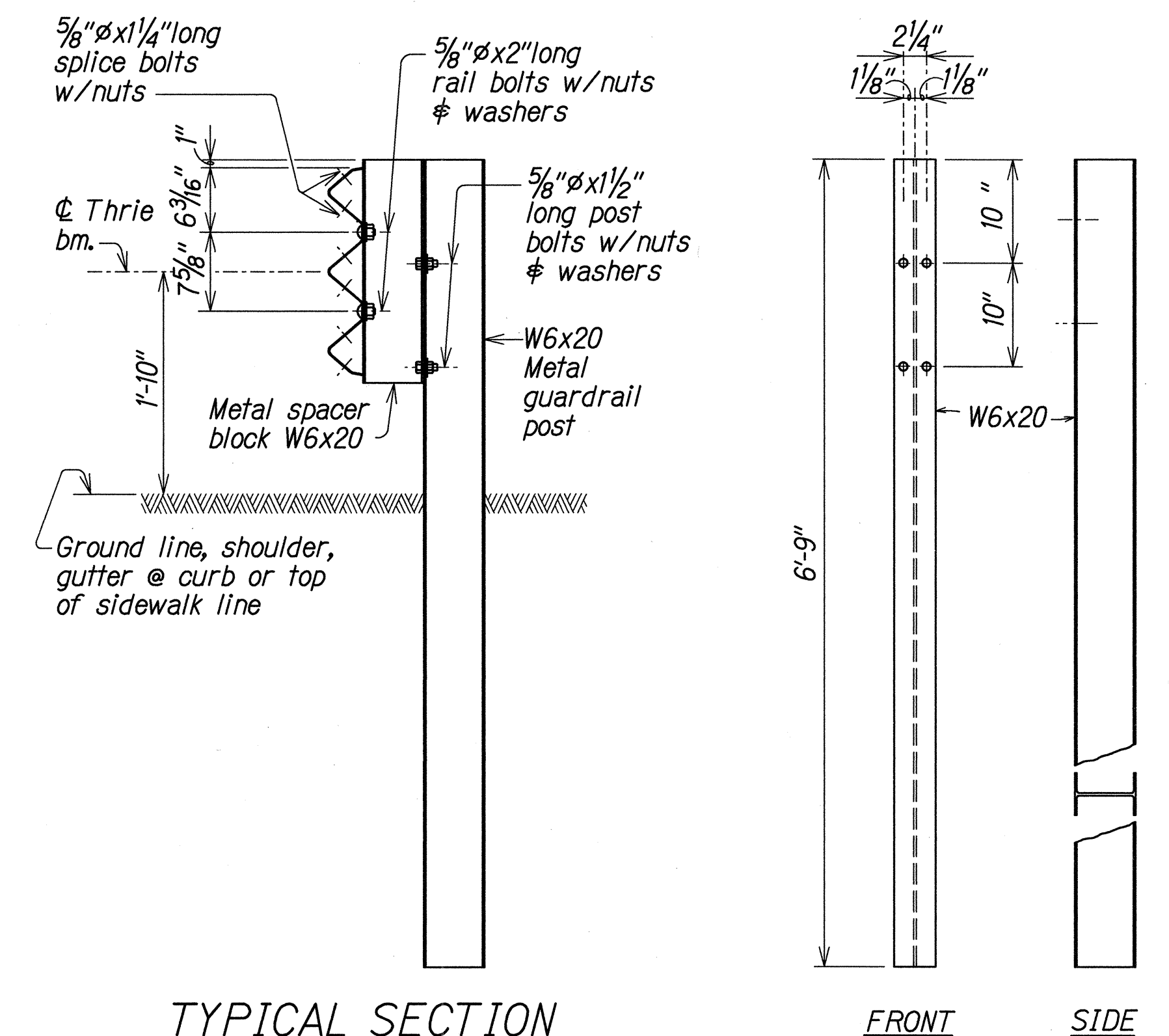
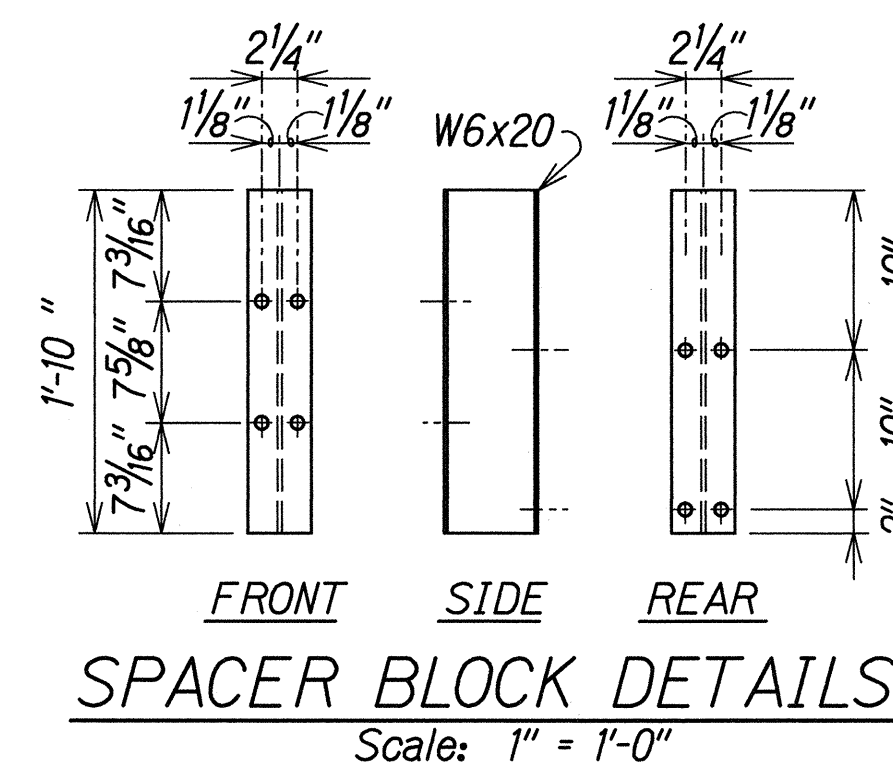
- A. The work necessary to connect guardrail to concrete bridge deck and approach slab shall include all labor, materials, tools, equipment and incidentals necessary to complete the work and will not be paid for separately.
- B. Lap rail element in direction of traffic to prevent snagging.
- C. "Transition Section" and thrie beam shall be fabricated from 10 gauge steel conforming to the requirements of AASHTO M 180, Type II, Class B.
- D. Double (nest 1st panel) thrie beam elements at all end post connections, except on highways with one-way traffic pattern, use single thrie beam elements at end post on trailing end only.
- E. Where double (nested) beam occur, 12" "Back-up Plate" not required.
- F. See Plan Sheets 29 and 30 for post details for thrie beam guardrail on bridge and approach slabs.



(Use at posts where splices
do not occur.)

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

TRANSITION SECTION
Scale: 1" = 1'-0"

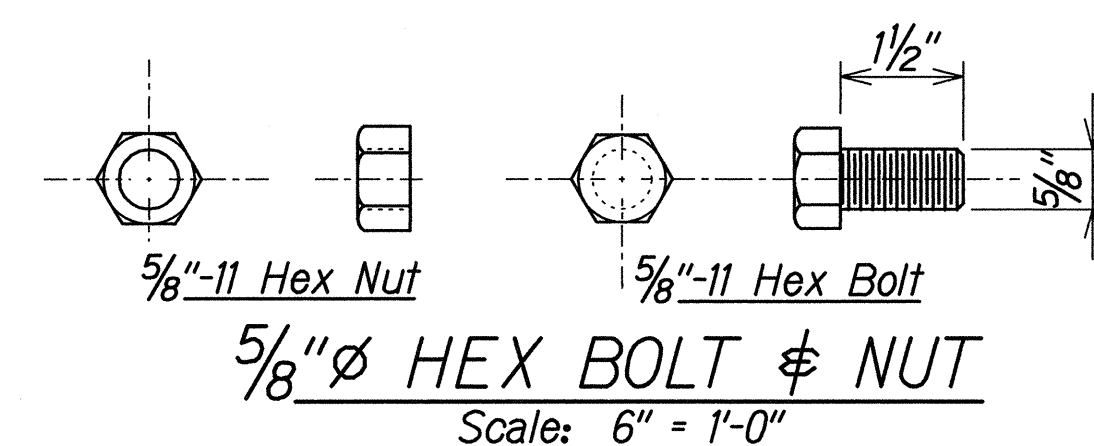
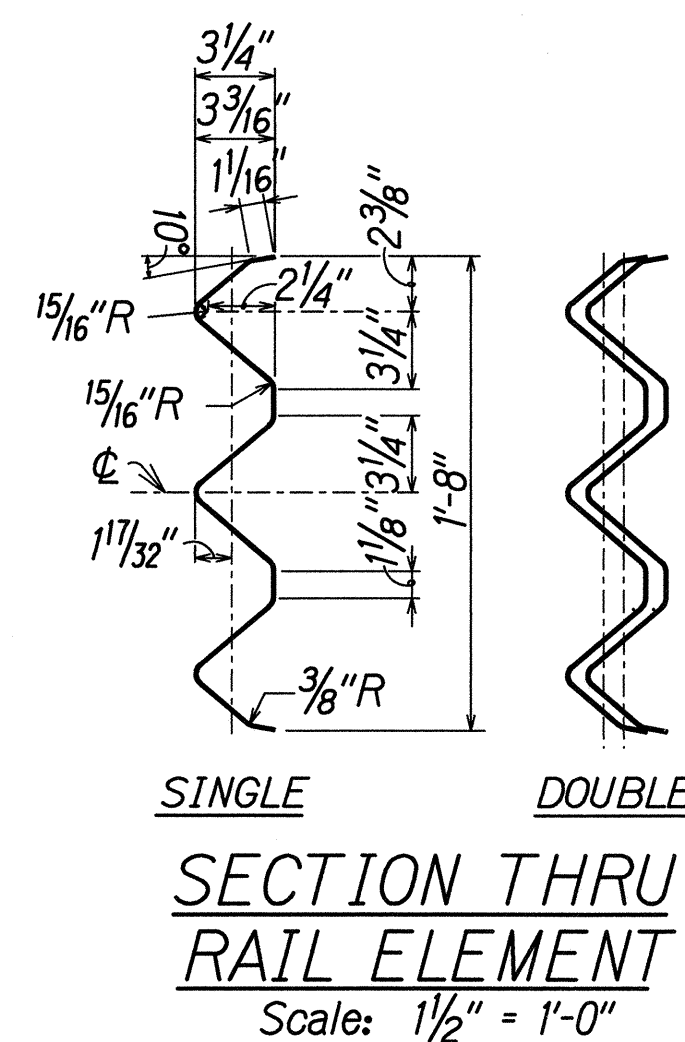


TYPICAL SECTION
METAL GUARDRAIL ON METAL POST
WITH METAL SPACER BLOCK
Scale: 1" = 1'-0"

FRONT SIDE

POST DETAILS

Scale: 1" = 1'-0"



<i>L</i>	<i>Thread Length</i>
1¼"	Full thread
2"	1½" min. thread length

1" dia. x 1/16" deep
recess on one
or both sides

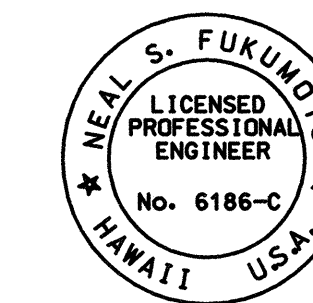
1 1/4"

1 1/16"

5/8" ϕ BUTTON HEAD BOLT
& RECESS NUT

Scale: 6" = 1'-0"

METAL GUARDRAIL TYPE 3 THRIE BEAM AND APPURTENANCES DETAILS



This work was prepared by me
or under my supervision.

Wesley R. Segawa
Wesley R. Segawa & Associates, Inc.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

THRIE BEAM & APPURTENANCE

DETAILS

KUHIO HIGHWAY

Waialua River Plantation Bridge

Replace and Reconstruct Pavement

and structural Supports

Project No. 56A-02-Q0M

Scale: As Shown Date: May, 2001

SHEET No. 1 OF 1 SHEETS