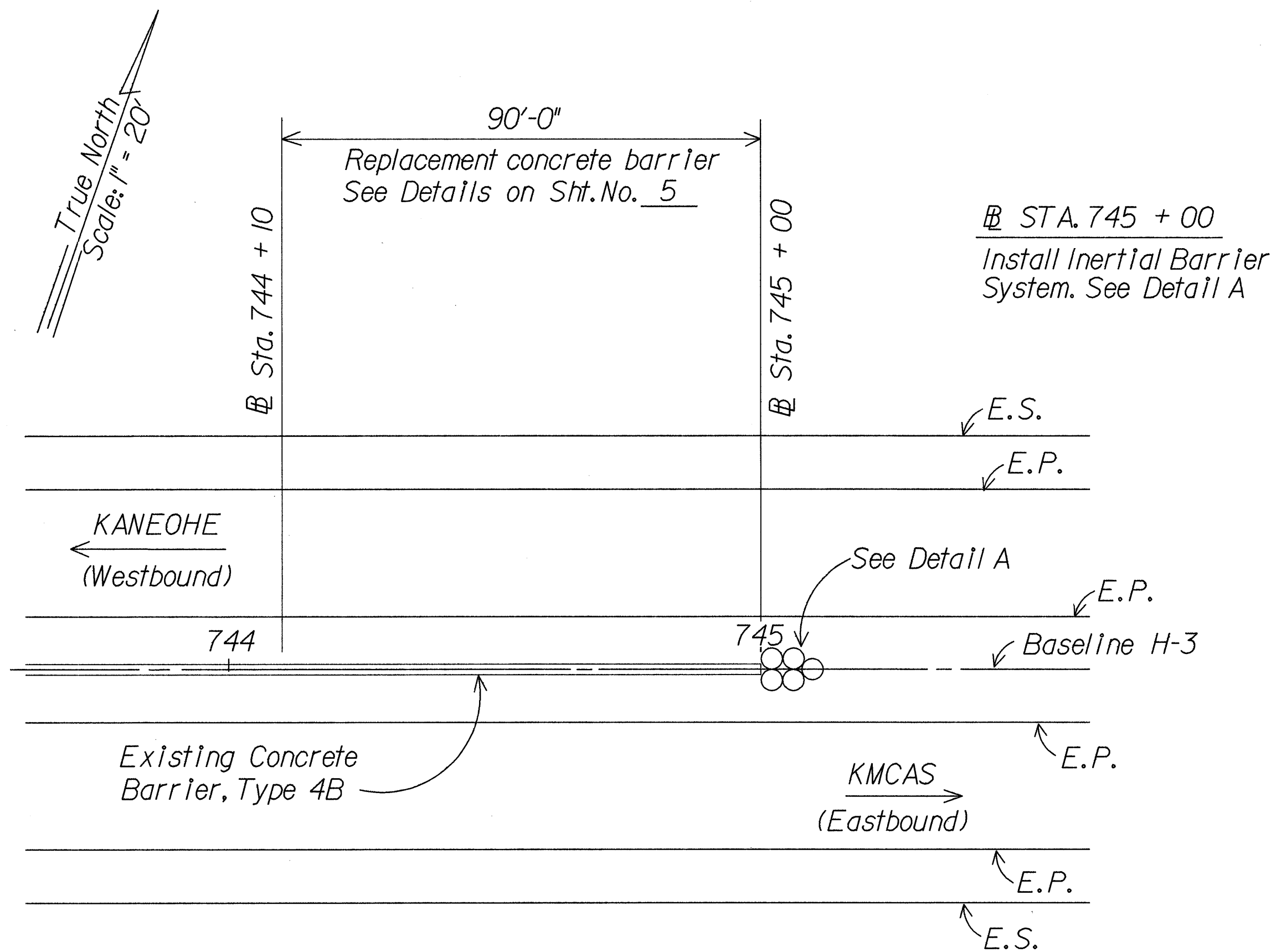


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H3-1(63)	1991	3	7

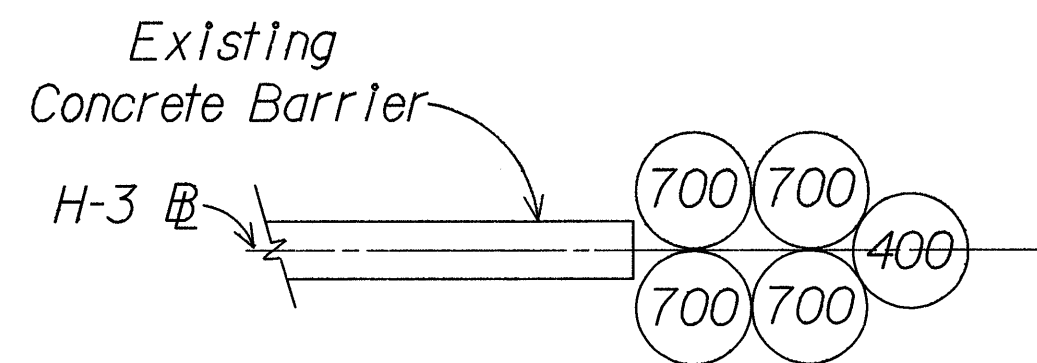


PLAN

INERTIAL BARRIER SYSTEM

AT STA. 745 + 00

Scale: 1" = 20'



DETAIL A

Not To Scale

GENERAL NOTES:

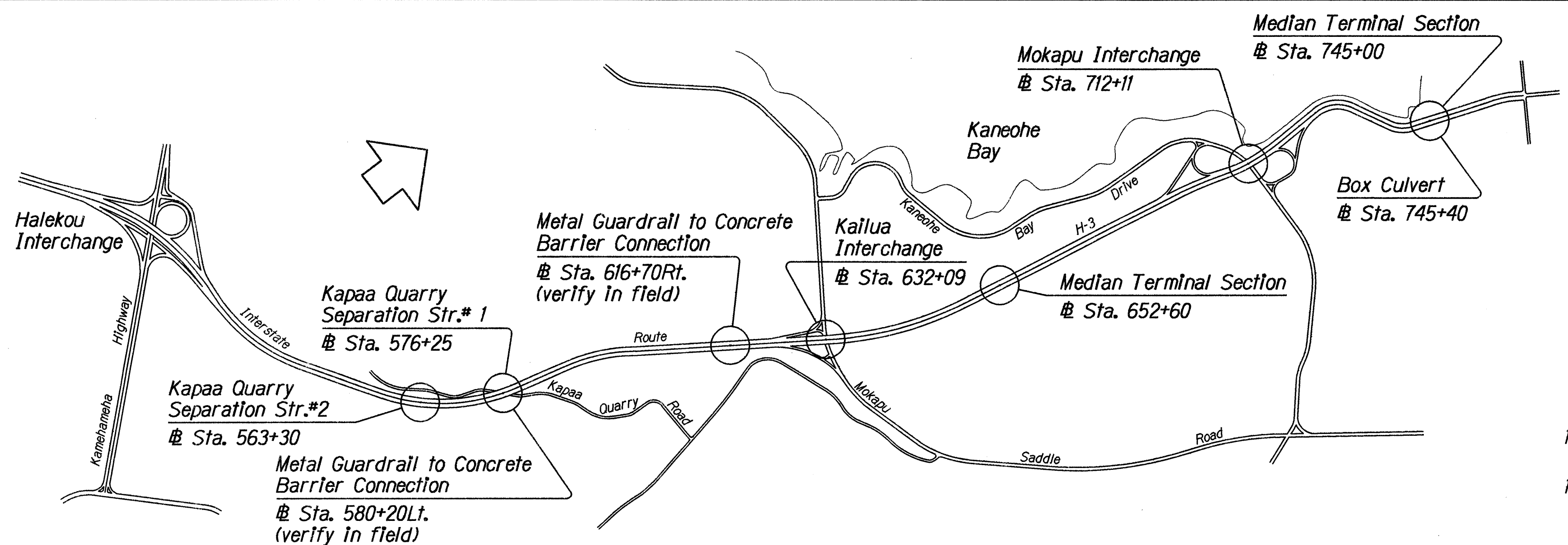
- Proposed Improvements under this project are located at various locations on Interstate Route H-3, between Halekou Interchange and Kaneohe Marine Corps Air Station Boundary. Scope of work consist of removing and reconstructing concrete end posts at structures, installing guardrails, reconstructing existing guardrails, removing and reconstructing concrete median barrier and installing an inertial barrier system
- The Contractor is reminded of the requirements of subsection 107.13 Public Convenience and Safety of the Special Provisions and the Standard Specifications

DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____
IN.	_____

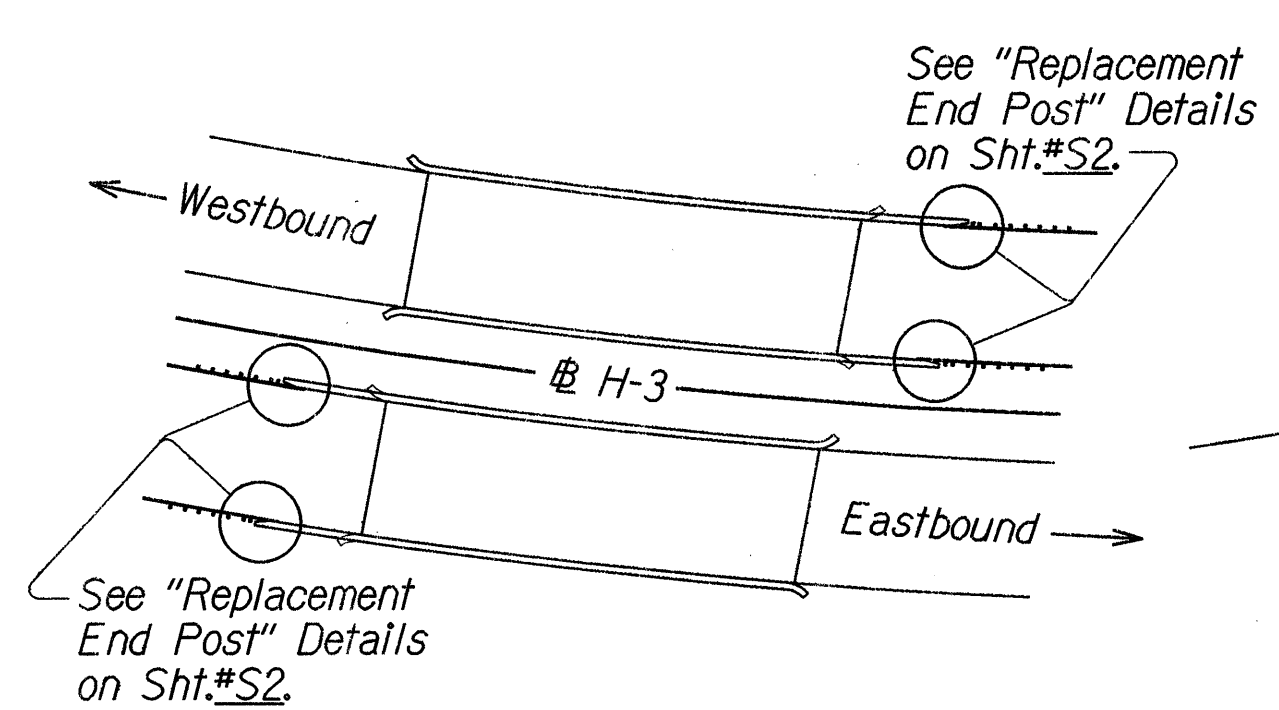
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOCATION PLAN &
GENERAL NOTES
INTERSTATE ROUTE H-3 REHAB.
HALEKOU INTERCHANGE TO KMCAS
F.A.I.P. NO. IR-H3-1(63)
Scale: As Shown Date: Aug. 1989

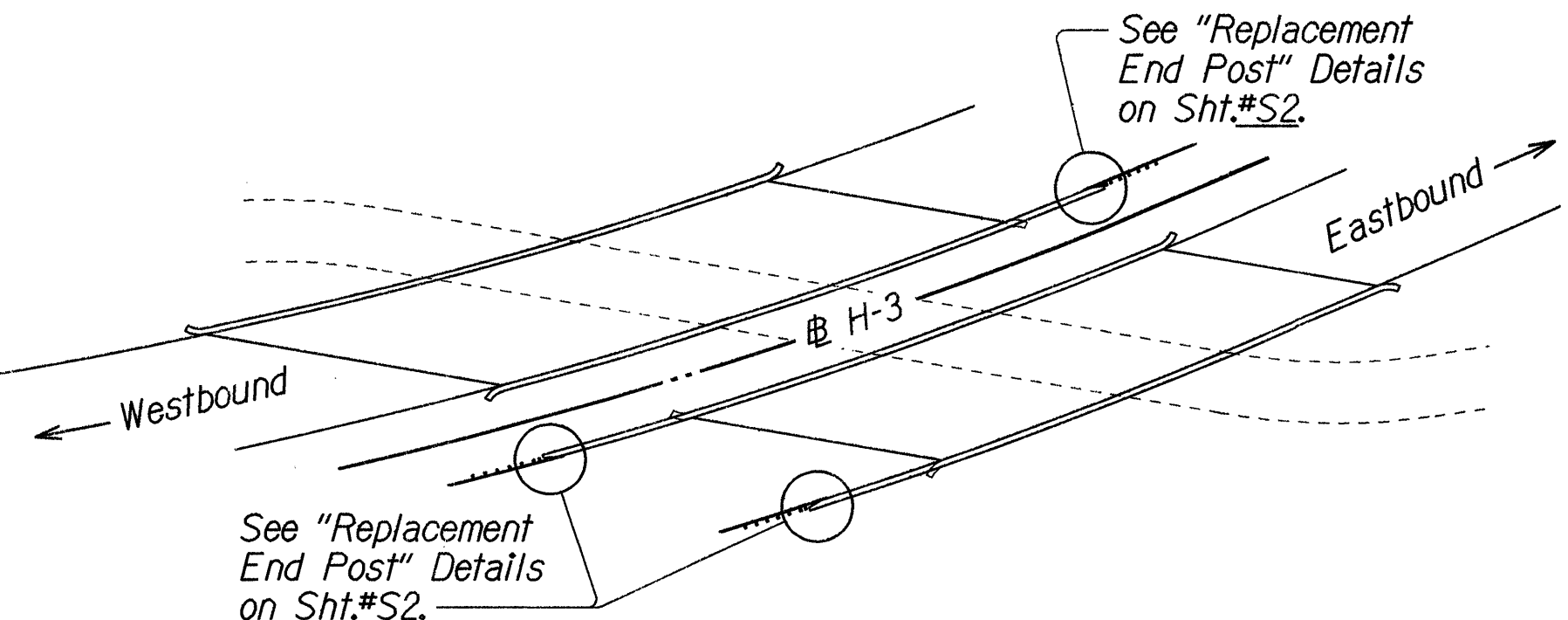
SHEET No. 1 OF 1 SHEETS



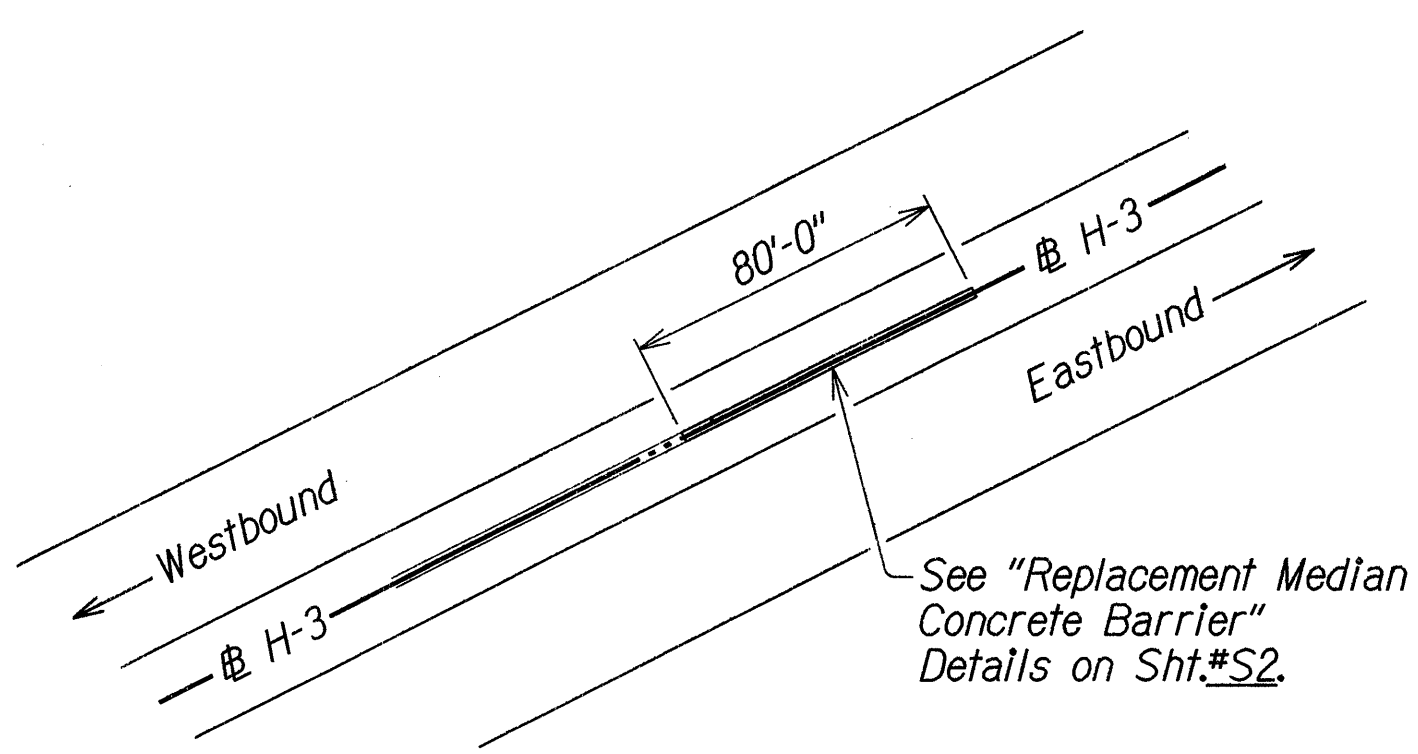
WORK SITE LOCATION PLAN
Not to Scale



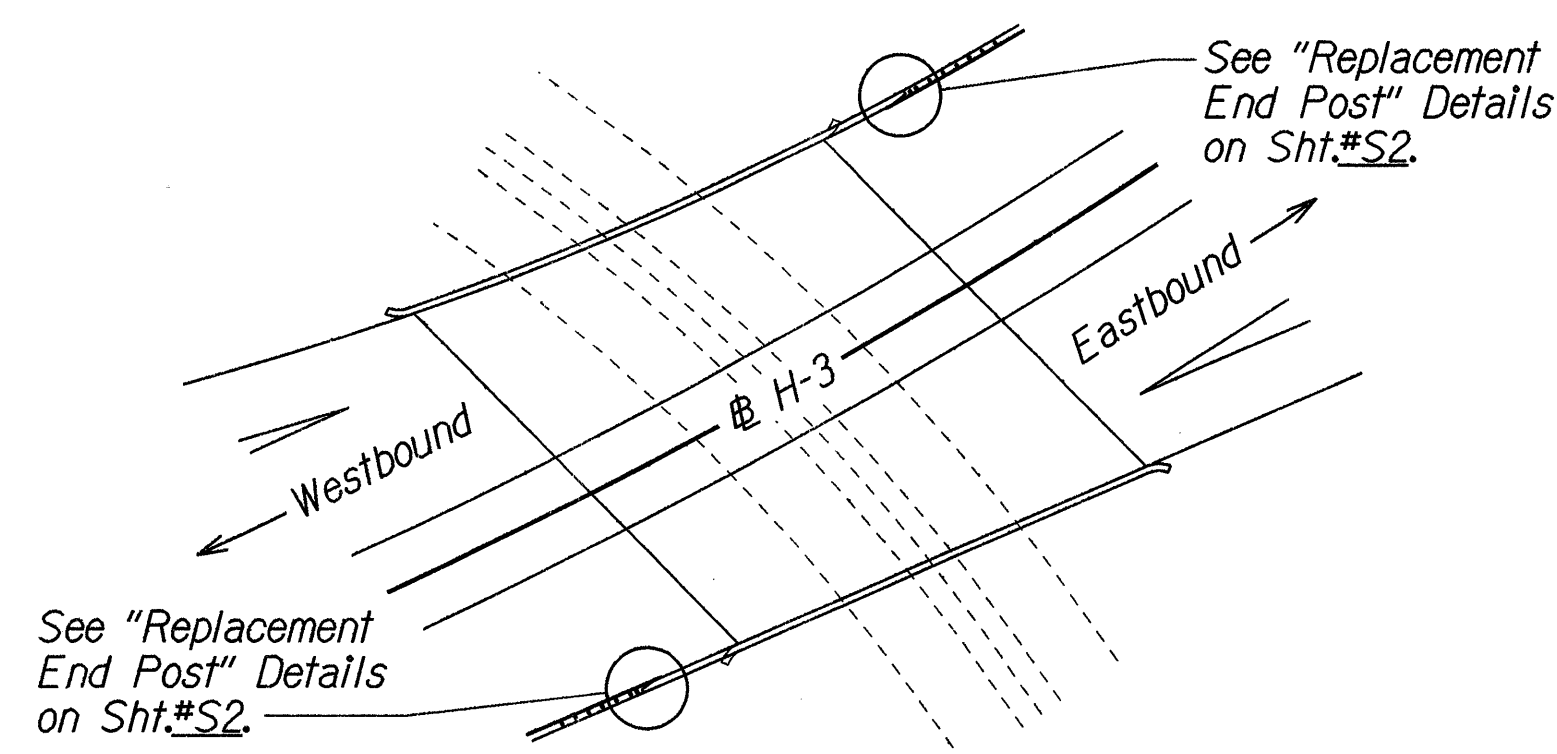
KAPAA QUARRY SEPARATION STRUCTURE NO.2
Not to Scale



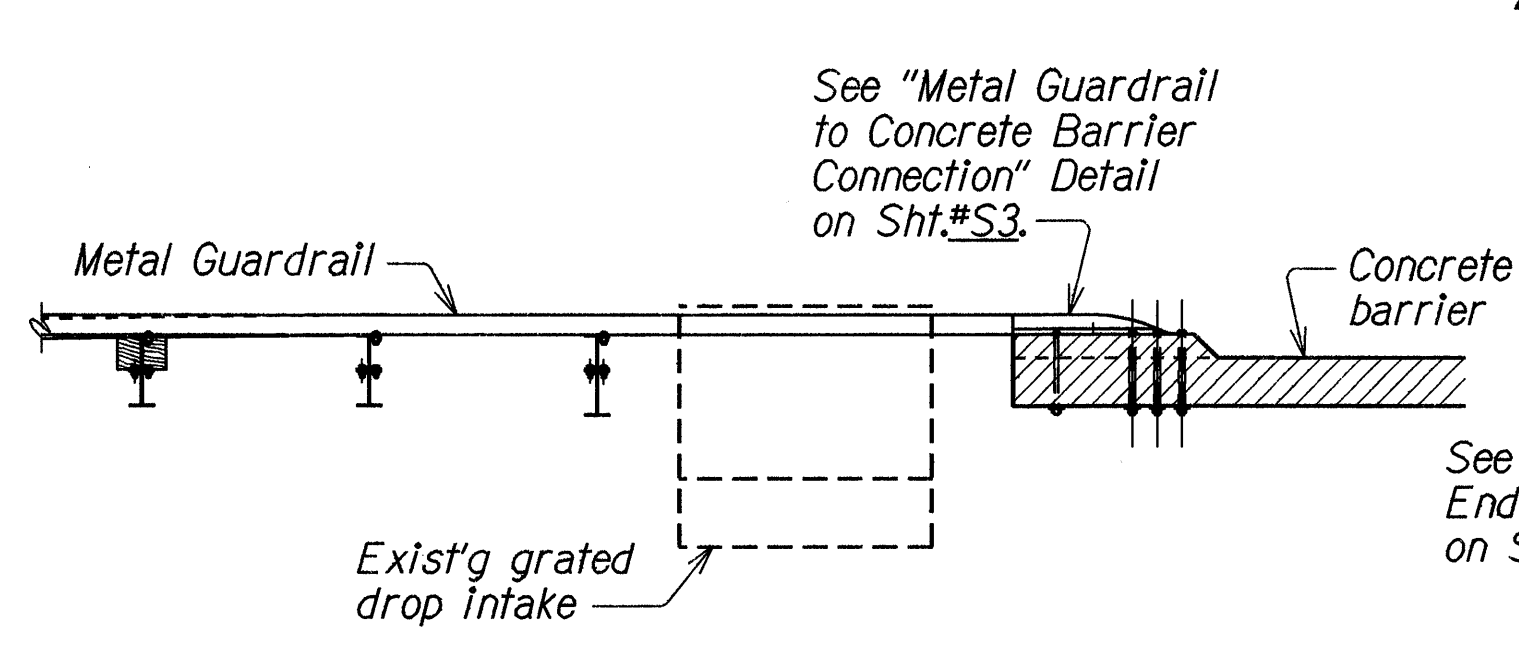
KAPAA QUARRY SEPARATION STRUCTURE NO.1
Not to Scale



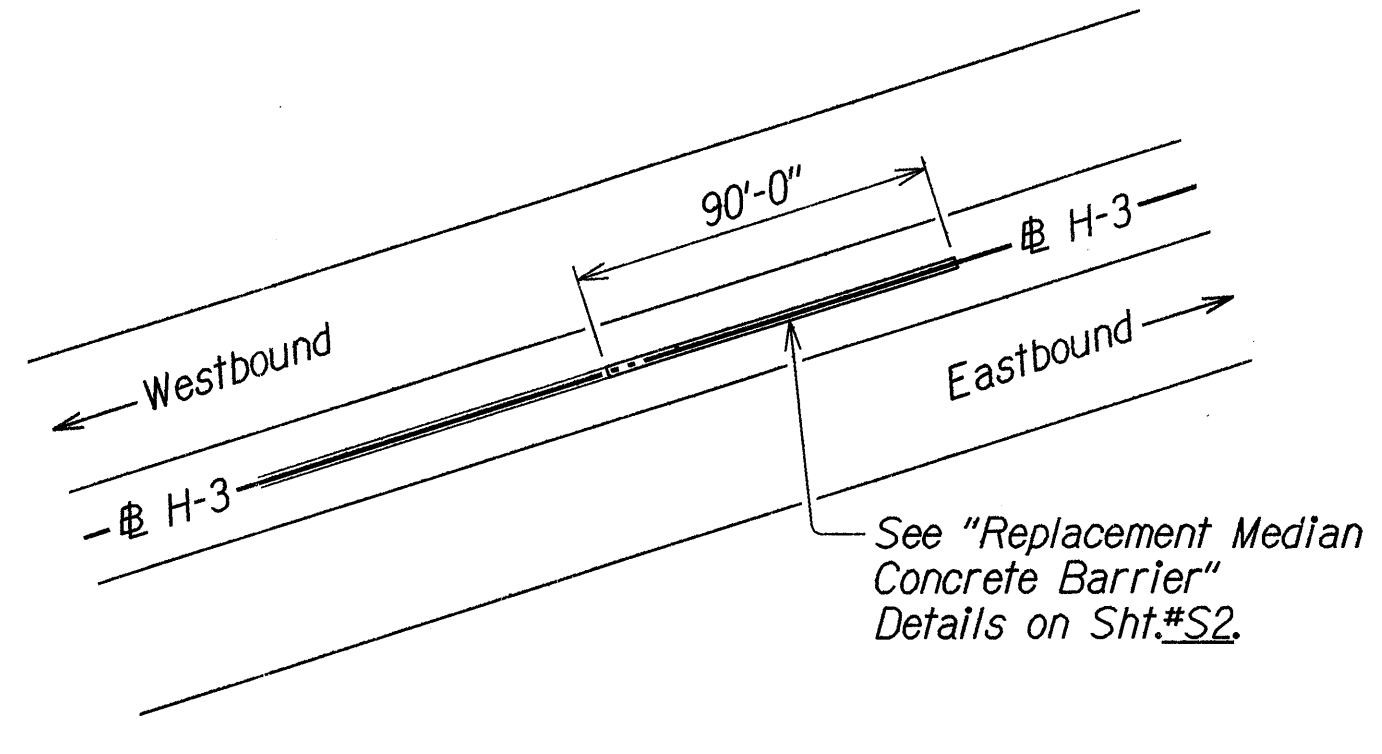
MEDIAN TERMINAL SECTION @ Sta. 652+60
Not to Scale



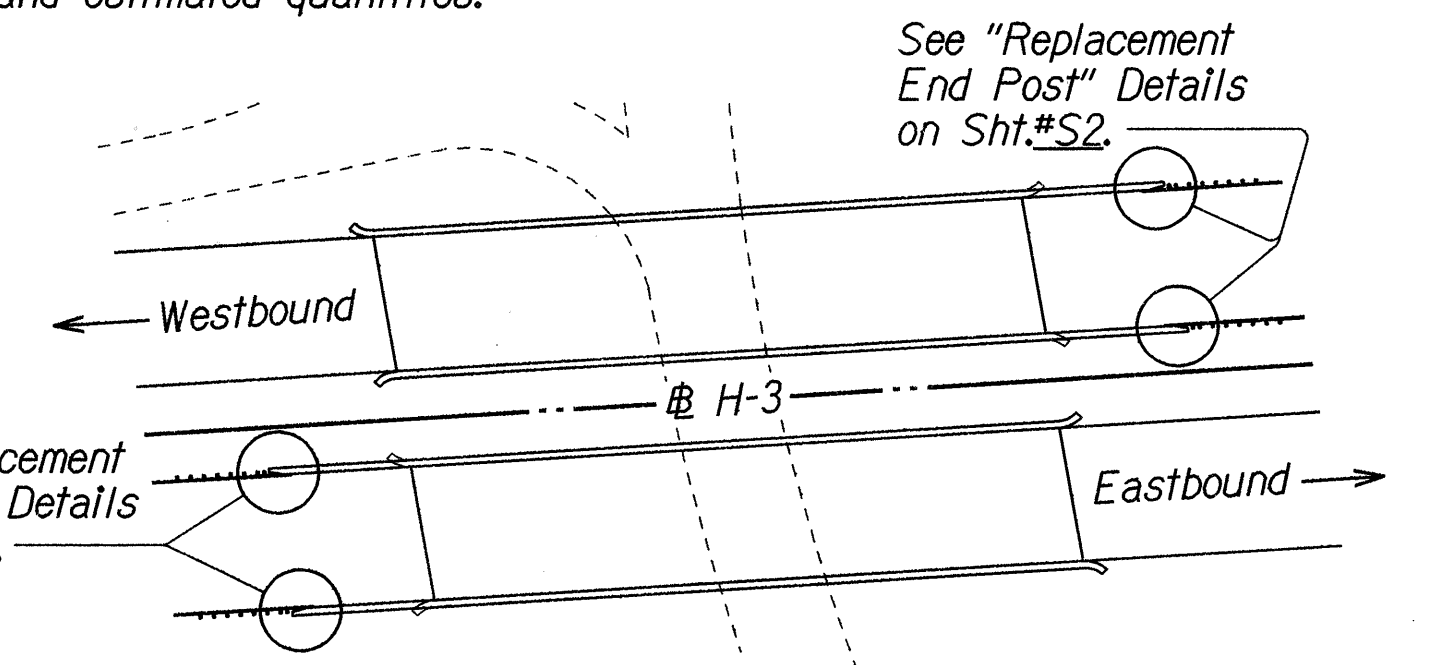
MOKAPU INTERCHANGE
Not to Scale



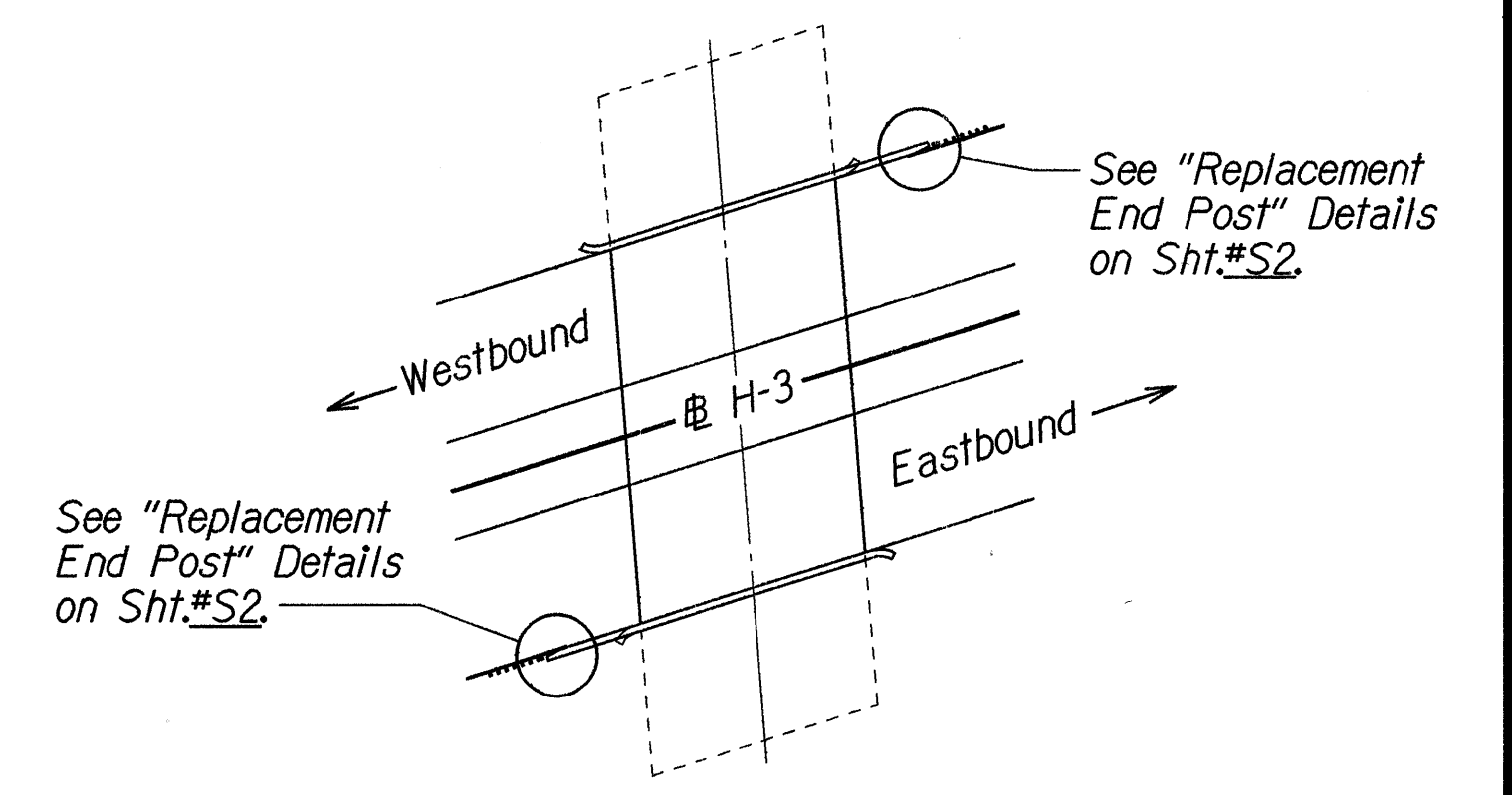
METAL GUARDRAIL TO CONCRETE BARRIER CONNECTION
Not to Scale



MEDIAN TERMINAL SECTION @ Sta. 745+00
Not to Scale



KAILUA INTERCHANGE
Not to Scale



CONCRETE BOX CULVERT @ Sta. 745+40
Not to Scale

GENERAL NOTES

1. See Standard Specifications for Road and Bridge Construction (Hawaii 1985) and Special Provisions.
2. See State of Hawaii, D.O.T. Standard Plans Sht.*TE-50 and TE-51 for details of metal guardrail and "terminal connector", and Sht.*TE-63 for guardrail Type 4B (rigid barrier).
3. All anchor bolts shall be high strength bolts conforming to the requirements of ASTM A325.
4. "Terminal Connector" shall be fabricated from 10 gauge steel conforming to the requirements of AASHTO M180.
5. All anchor bolts, cap PL's, nuts and washers shall be hot-dipped galvanized.
6. First 25'-0" of guardrail adjoining "terminal connector" shall be of galvanized steel and supports spaced as shown on the detail drawings. This section of rail shall be placed on tangent to end post or parallel to roadway, unless conditions at site render it impossible to do so. Flare point to be determined in field.
7. Large impacting or vibratory type of equipment will not be permitted in the removal operation of the designated items nor for drilling of holes.
8. Any damage to the existing structures due to the Contractor's operation shall be repaired at his expense, to the satisfaction of the Engineer.
9. The Contractor shall verify all dimensions in the field before commencing with work.
10. The Contractor shall verify the location of all existing utility lines near structures and notify their respective owners before commencing with work.
11. All wooden spacer blocks to be treated with approved wood preservative.

ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY
692.0000	* Rehabilitation Work	1	Lump Sum

1
1

* See "Section 692" of the Special Provisions for the "Items" of work and estimated quantities.

DESIGNED BY	DATE
DRAWN BY	1/30
CHECKED BY	1/30
NOTED BY	1/30
QUANTITIES BY	1/30
DATE	1/30

4/17/91	1 Revised Item No.
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DATE	REVISIONS
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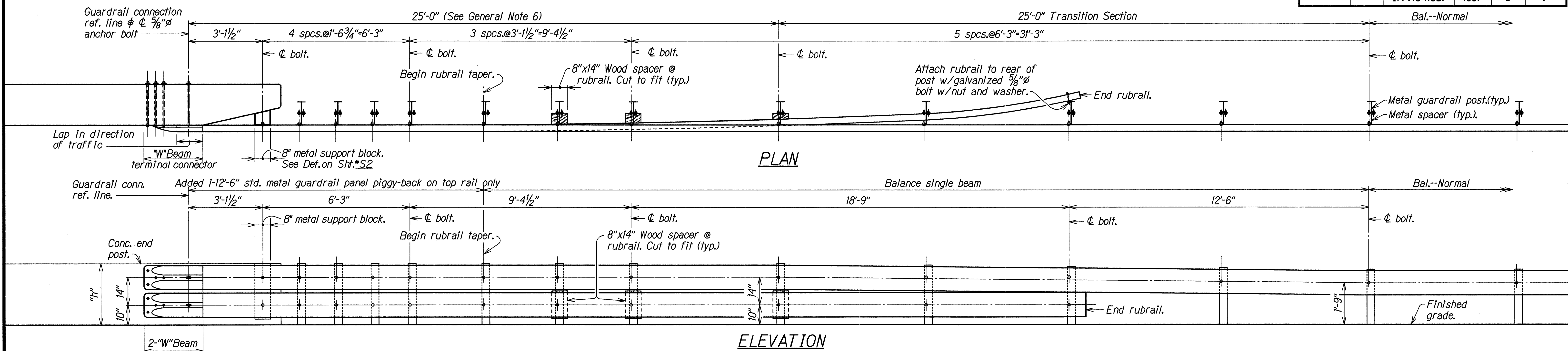
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WORK SITE AND STRUCTURE PLAN
GENERAL NOTES AND ESTIMATED QUANTITIES
INTERSTATE ROUTE H-3 REHABILITATION
HALEKOU INTERCHANGE TO KMCAS.
F.A.T.P. No. IR-H3-1(63)

Scale: As Noted Date: Aug 1990

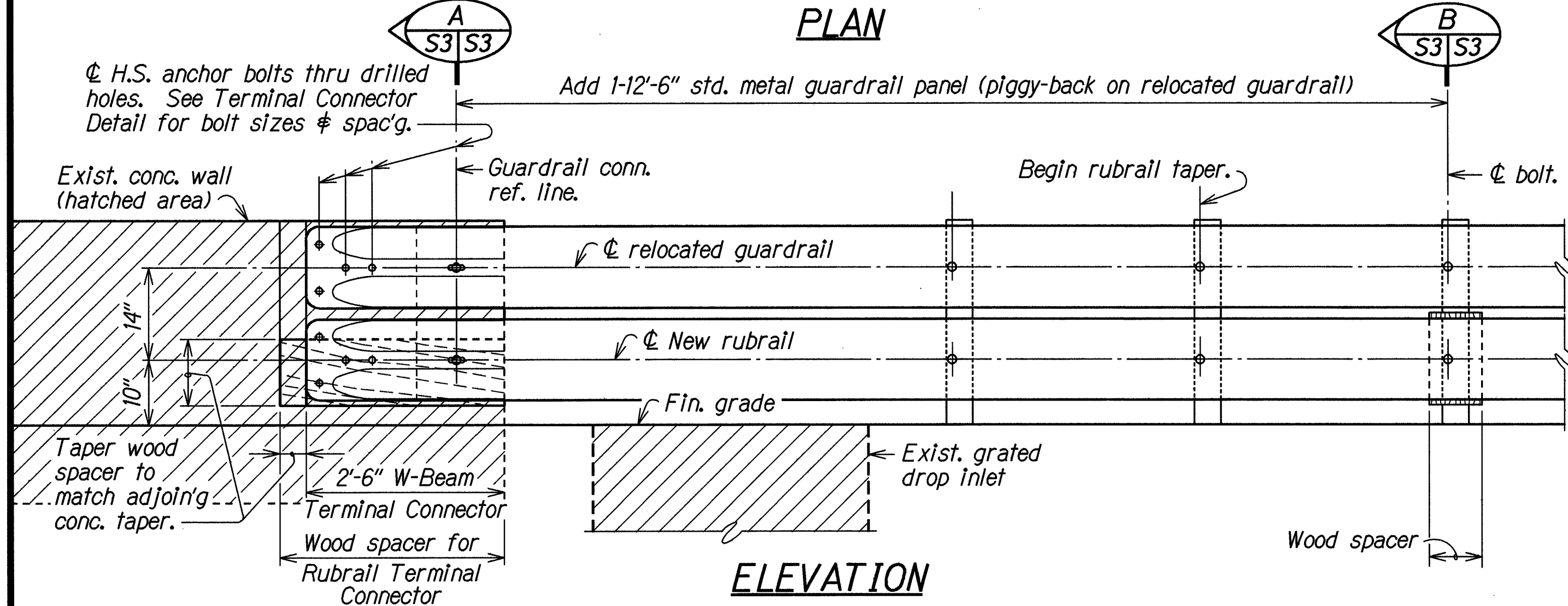
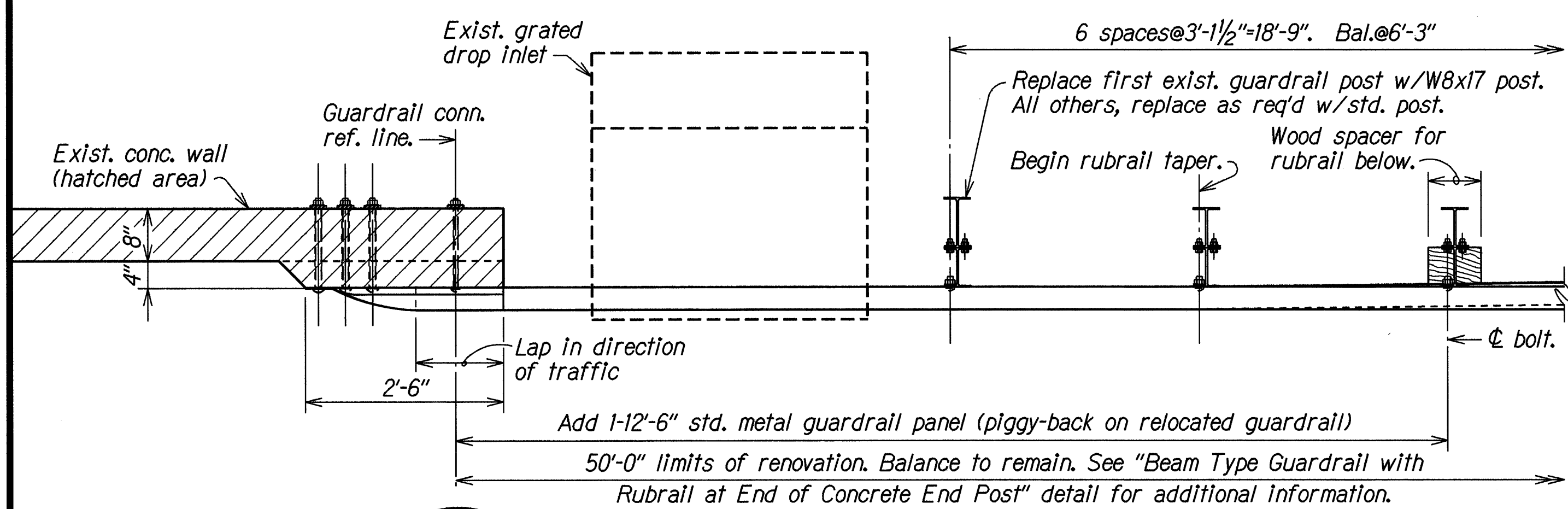
SHEET No. 51 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H3-1(63)	1991	6	7



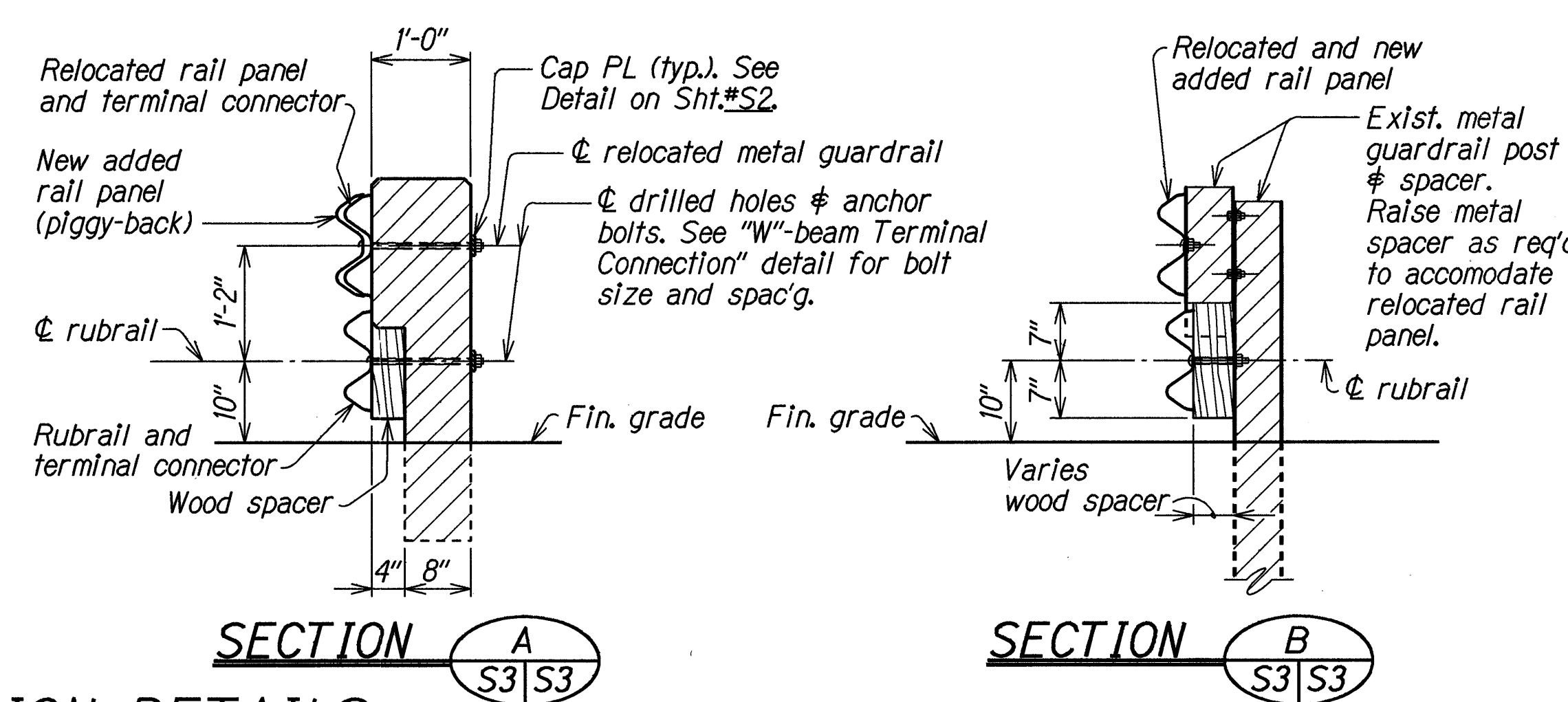
BEAM TYPE GUARDRAIL WITH RUBRAIL AT END OF CONCRETE END POST

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



METAL GUARDRAIL TO CONCRETE BARRIER CONNECTION DETAILS

@ Sta. 616+70±
Scale: 3/4" = 1'-0"



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

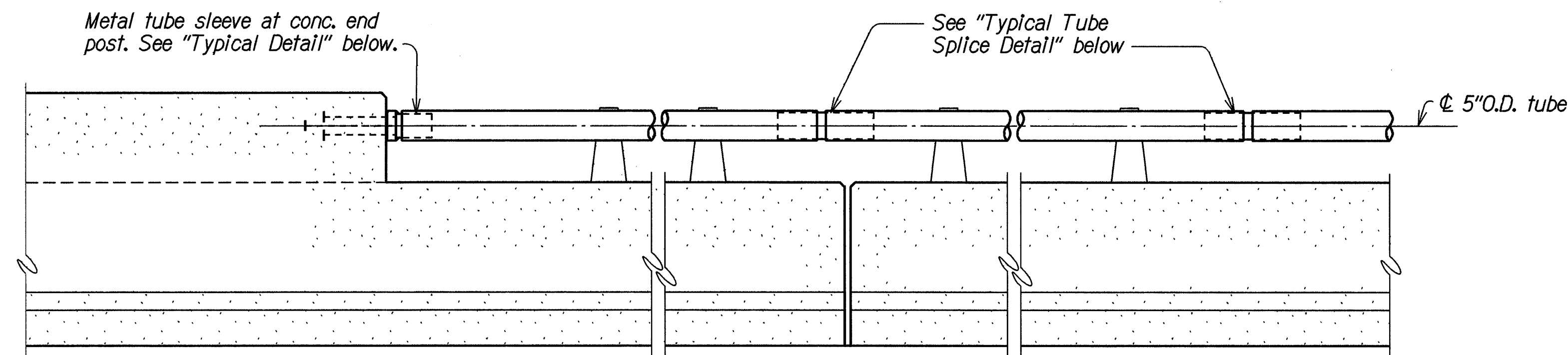
GUARDRAIL CONNECTION DETAILS
INTERSTATE ROUTE H-3 REHABILITATION
HALEKOU INTERCHANGE TO K.M.C.A.S.
F.A.I.P. NO. IR-H3-1(63)

Scale: As Noted Date: Aug 1990

SHEET No. S3 OF 4 SHEETS

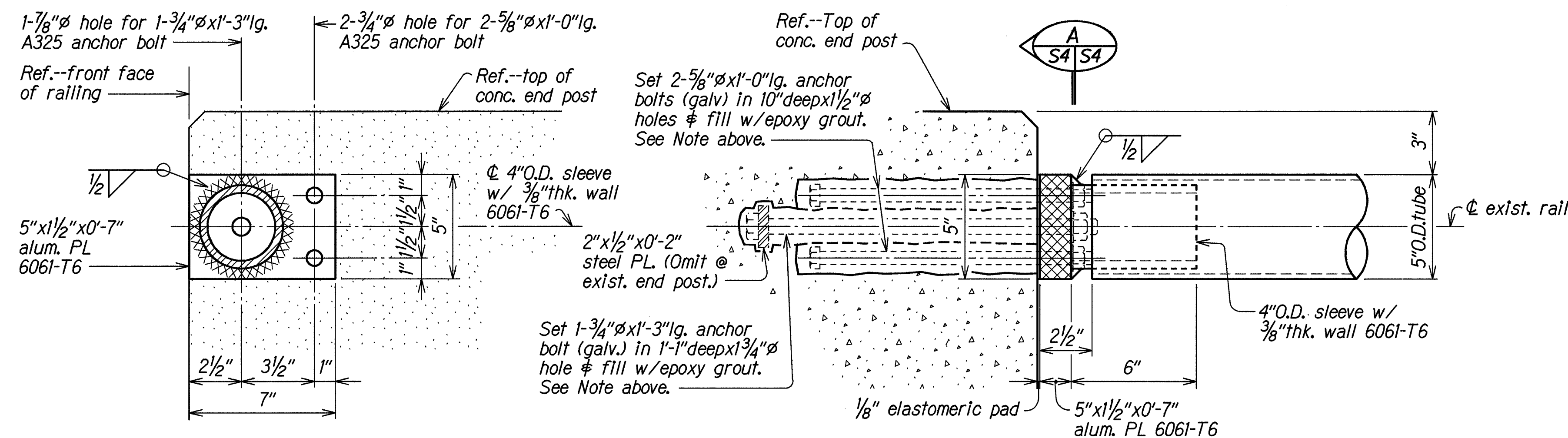
DATE: AUG 1990
DESIGNED BY: JLS
CHECKED BY: JLS
DRAWN BY: JLS
NOTED BY: JLS
ORIGINAL PLAN: JLS
NOTE BOOK: JLS
REVISIONS: JLS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H3-1163	1991	7	7



ELEVATION
Scale: 3/4" = 1'-0"

Note:
Installation of sleeve at existing end post is similar to replacement end post, except for drilling of holes for anchor bolts. See "Typical Detail" for drilling and anchoring information.



SECTION
Scale: 3" = 1'-0"

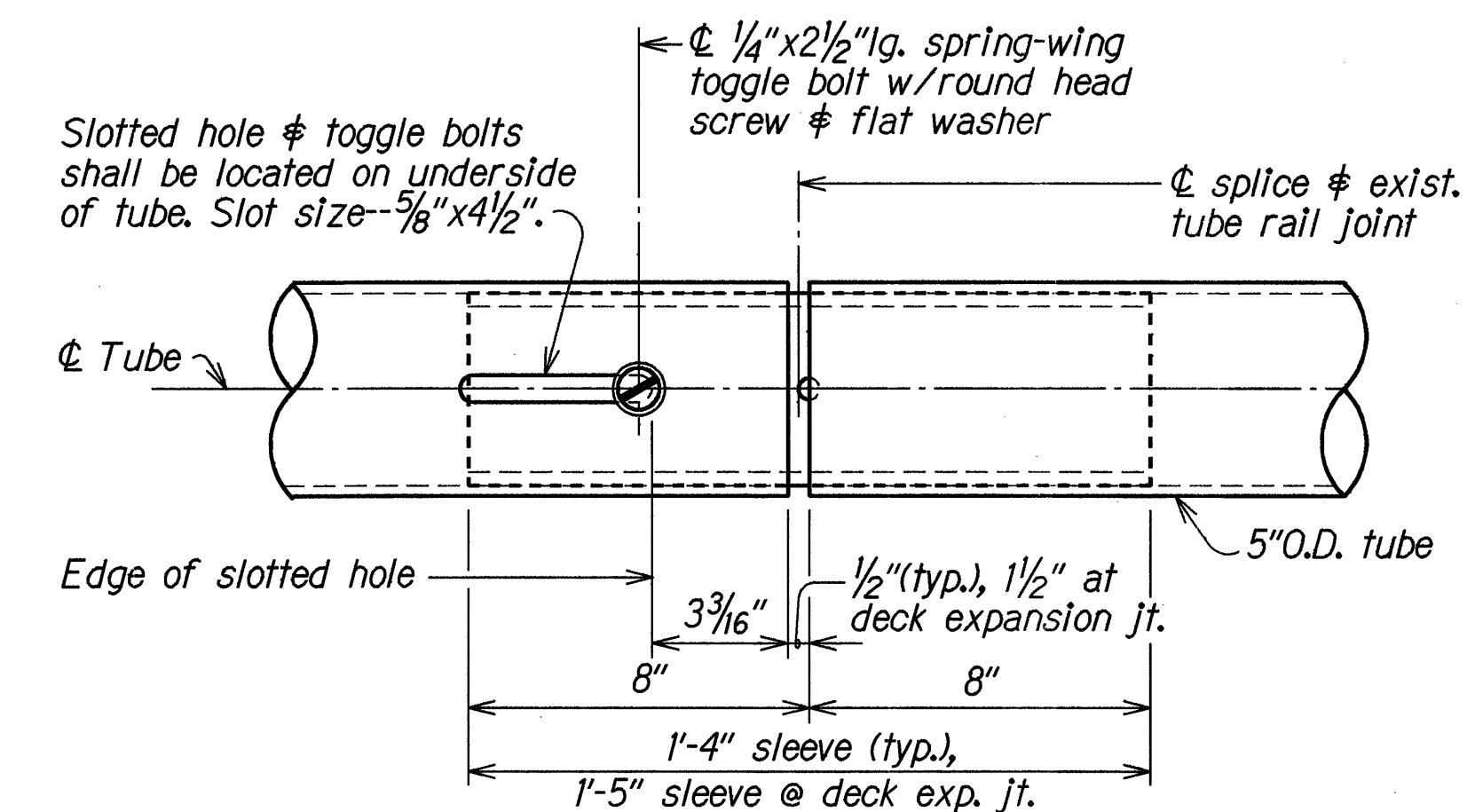
TYPICAL DETAIL
Scale: 3" = 1'-0"

METAL TUBE SLEEVE INSTALLATION DETAIL AT REPLACEMENT END POST, EXISTING END POST AND RAIL JOINTS

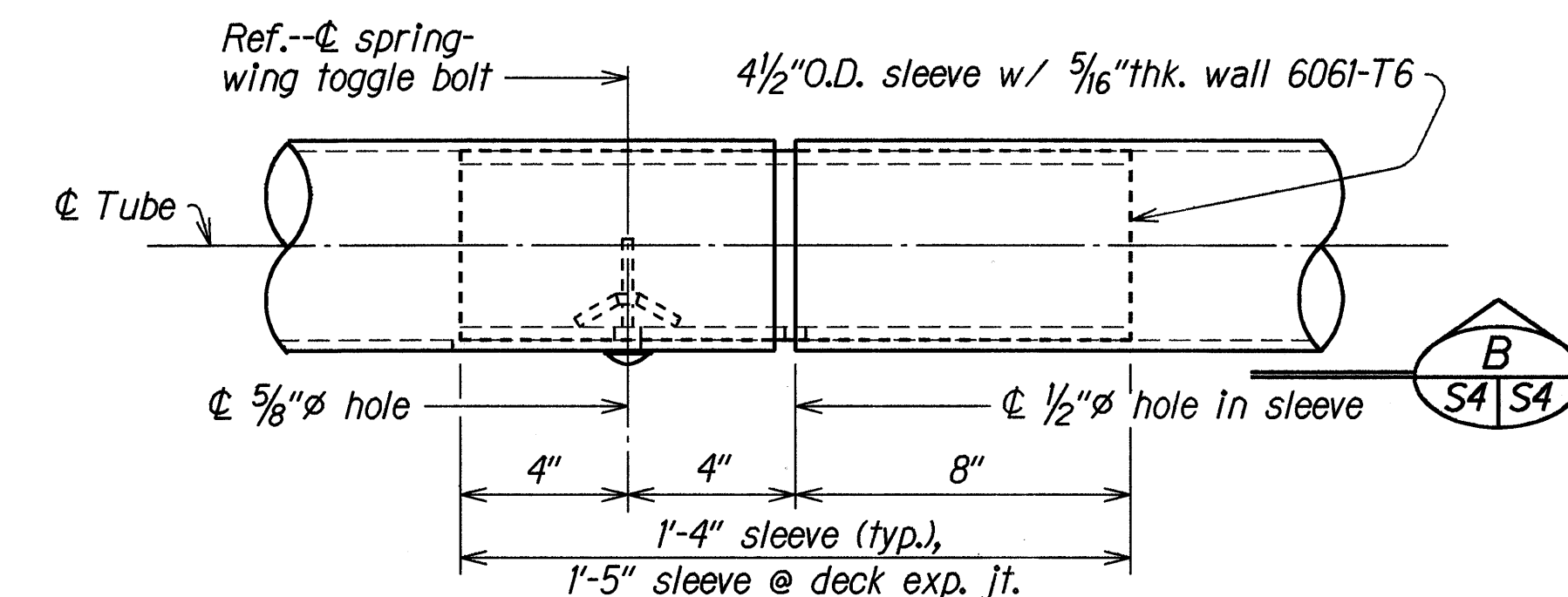
METAL SLEEVE SCHEDULE

LOCATION	AT EXISTING END POST	AT REPLACEMENT END POST	AT INTERMEDIATE RAIL JOINTS
Kapaa Structure No. 2	4	4	16
Kapaa Structure No. 1	4	4	20
Kailua Interchange	4	4	24
Mokapu Interchange	2	2	11
2-Cell Box Culvert	0	2	2
TOTAL	14	16	*73

* Verify in field



BOTTOM VIEW
Scale: 3" = 1'-0"



SLEEVE -- (FRONT VIEW)

TYPICAL TUBE SPLICE DETAIL
Scale: 3" = 1'-0"

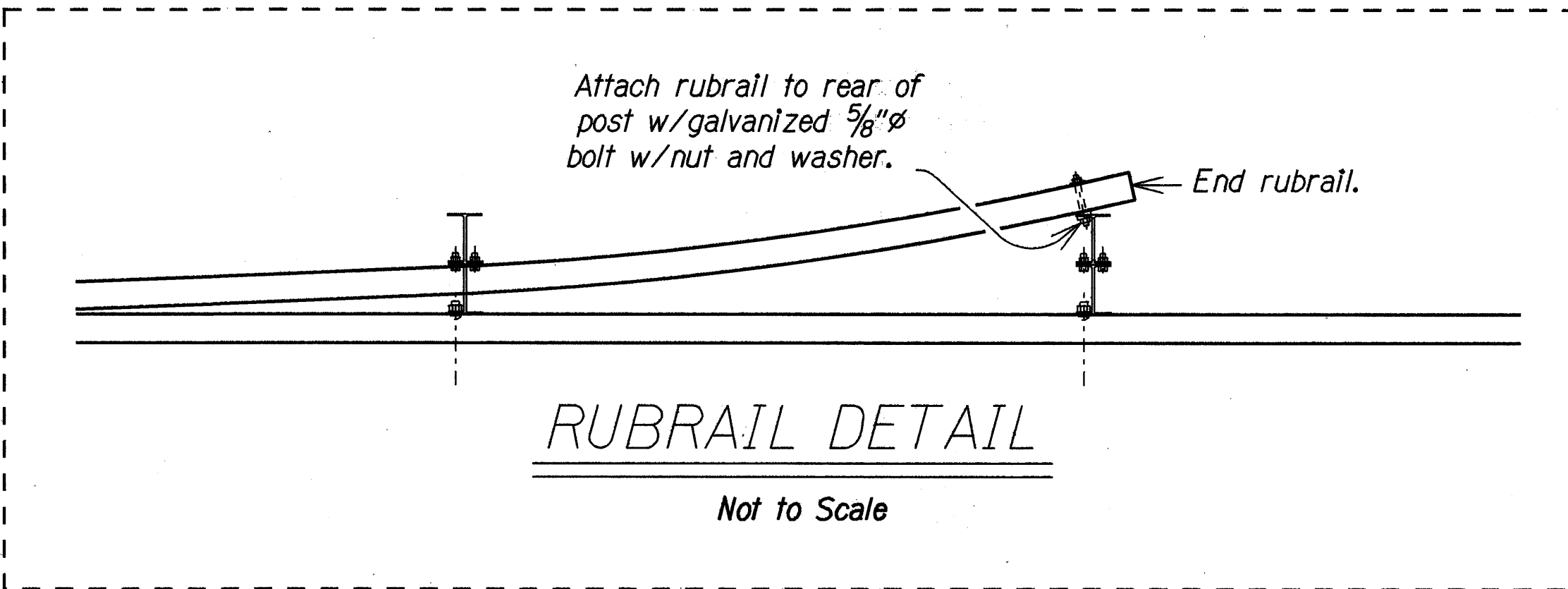
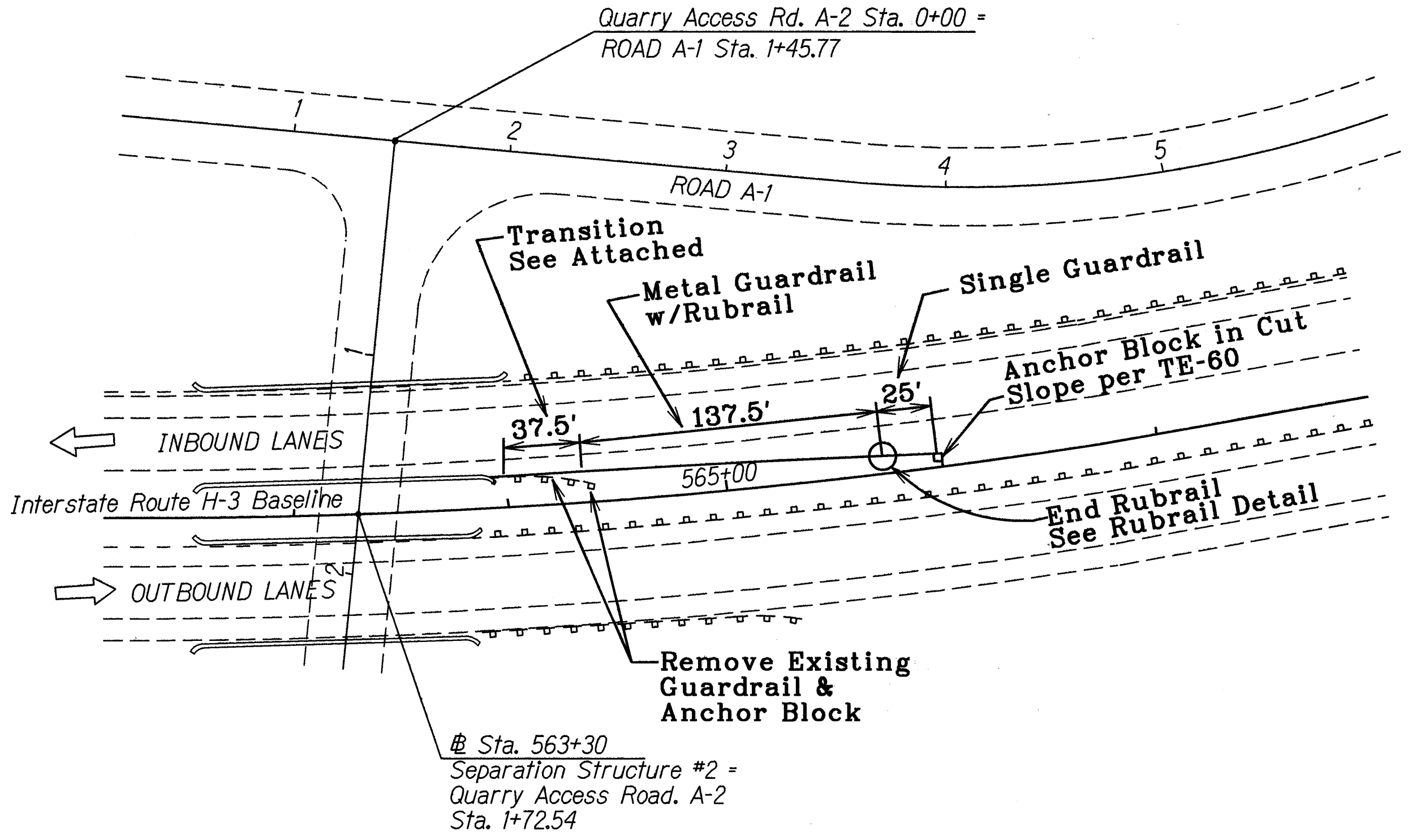
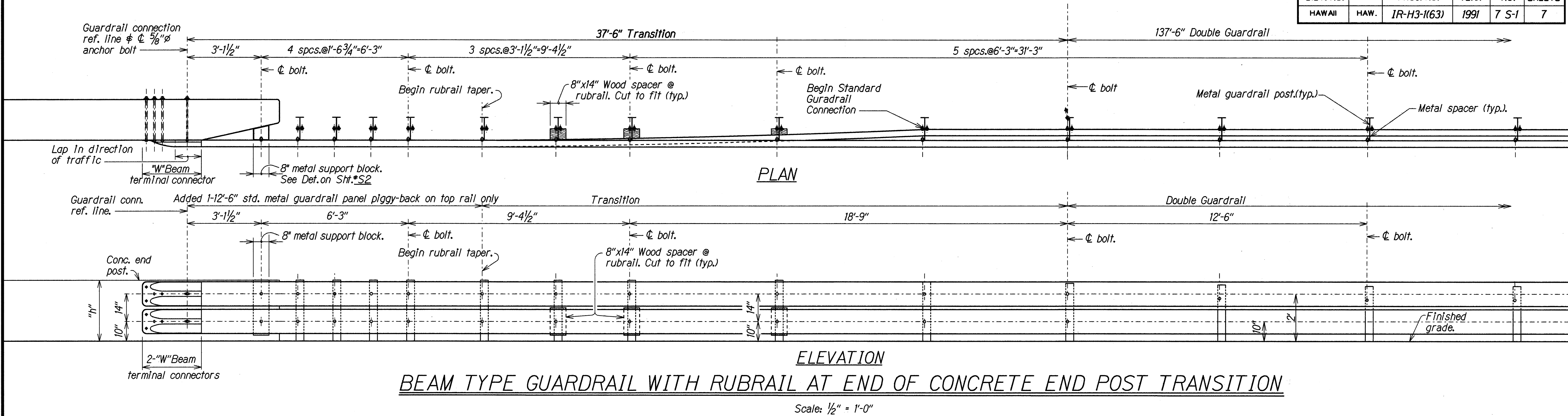
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**END AND INTERMEDIATE SLEEVE
INSTALLATION DETAILS**
INTERSTATE ROUTE H-3 REHABILITATION
HALEKOU INTERCHANGE TO KMCAS
F.A.P. No. IR-H3-1163

Scale: As Noted

Date: Aug 1990

SHEET No. S4 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H3-1(63)	1991	7 S-1	7



This Sheet Added to
"As-Built" Posted

LEGEND FOR AS-BUILT POSTINGS	
	squiggly line for as-built deletion
	double line for as-built deletion
	text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL CONNECTION DETAILS
INTERSTATE ROUTE H-3 REHABILITATION
HALEKOU INTERCHANGE TO K.M.C.A.S.
F.A.I.P. NO. IR-H3-1(63)

Scale: As Noted Date: Aug 1990

SHEET No. 1 OF 1 SHEETS

AS-BUILT

7 S-1