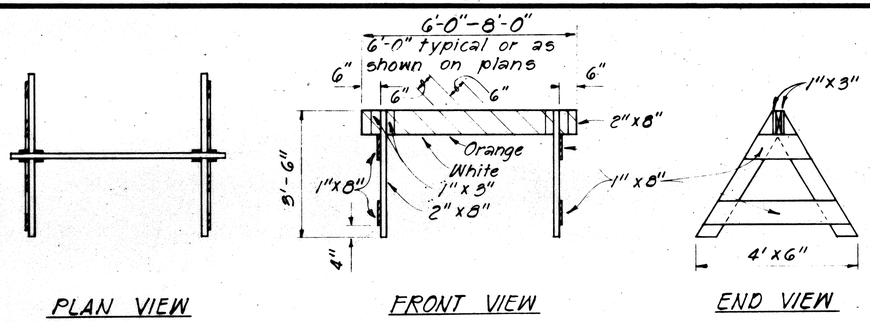
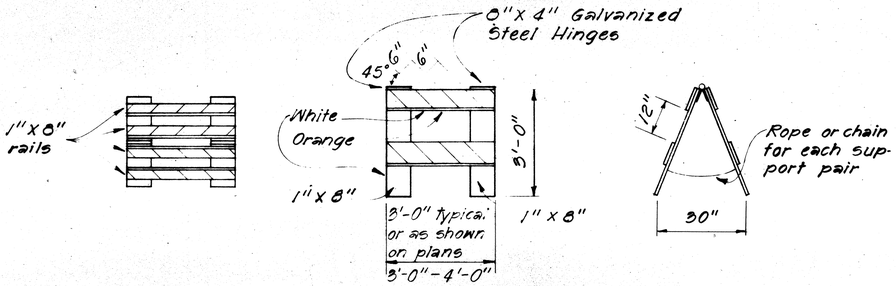
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	LTO-06-79	1980	9	45



PLAN VIEW FRONT VIEW END VIEW

TYPE I BARRICADE

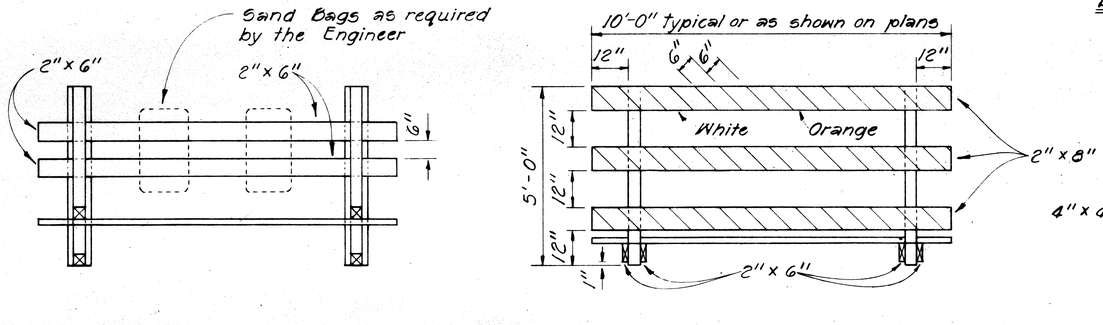
Scale: 1/2" = 1'-0"



PLAN VIEW FRONT VIEW END VIEW

TYPE II BARRICADE

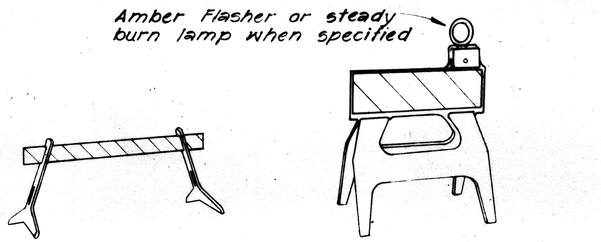
Scale: 1/2"=1'-0"



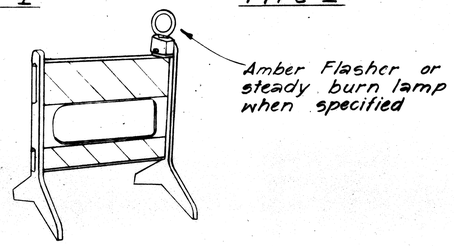
PLAN VIEW FRONT VIEW END VIEW

TYPE III BARRICADE

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



TYPE I TYPE I



TYPE II

PLASTIC MOLDED BARRICADE OPTIONS *

Not to Scale

* Shop Drawings must be submitted for approval.

FRONT FACE BACK FACE

BARRICADE STRIPING DETAILS

Not to Scale

GENERAL NOTES

1. The Contractor shall construct, install and maintain the barricades at the locations shown on the Plans.
2. The barricades shall be left in place or relocated upon completion of the project as ordered by the Engineer and are to become State property, unless otherwise specified.
3. The orange and white stripes shall slant downward toward the side on which traffic is to pass and shall be reflectorized with reflective sheeting.
4. Both faces of the barricade rails shall be striped. See Striping Detail Arrangement.
5. Contractor may submit alternate designs for approval.
6. Barricade details shall conform to the "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, by the Federal Highway Administration and as amended.
7. If wooden rails are used, 26 ga. galv. steel sheet shall be first tacked on to the rails and then overlayed with reflective sheeting.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

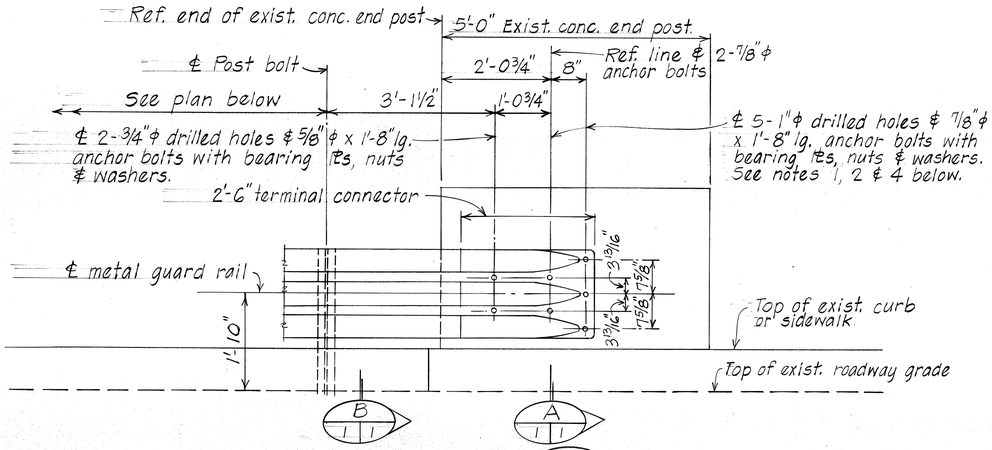
TYPICAL DETAILS

BARRICADES

SCALE: As Shown

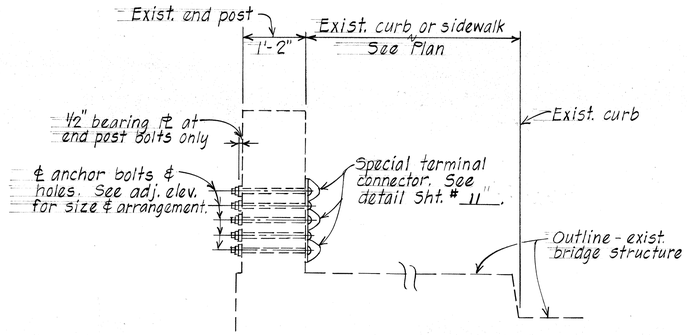
SHEET No. 1 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	LT-0-06-79	1980	10	45



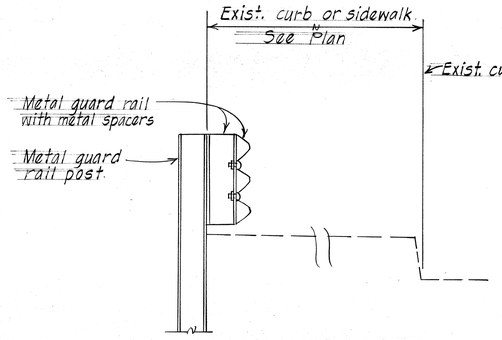
TYPICAL DETAIL

Scale: ¾" = 1'-0"



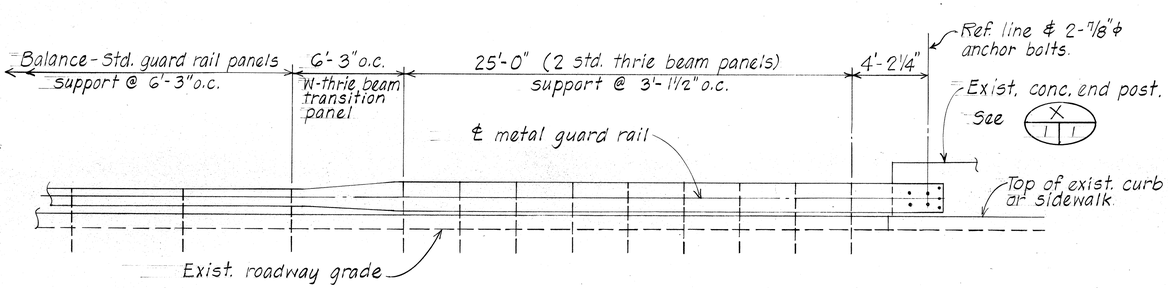
SECTION

Scale: ¾" = 1'-0"

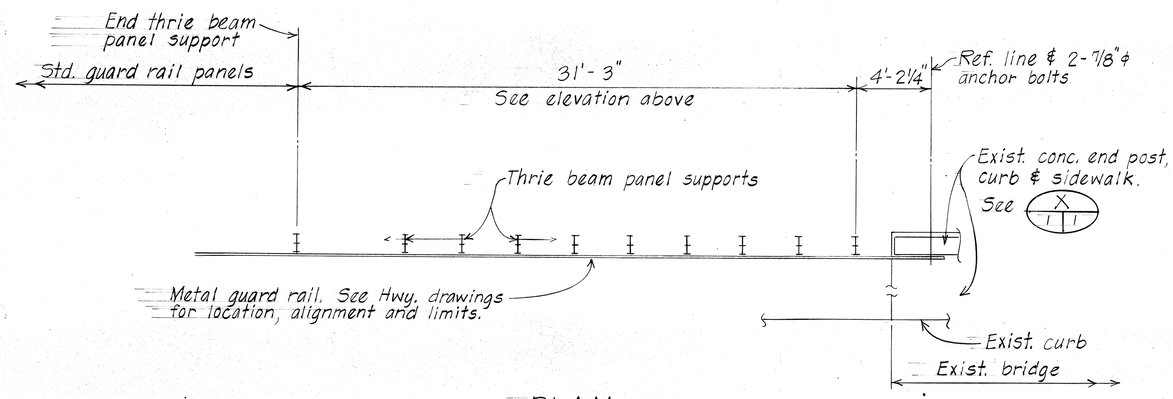


SECTION

Scale: ¾" = 1'-0"

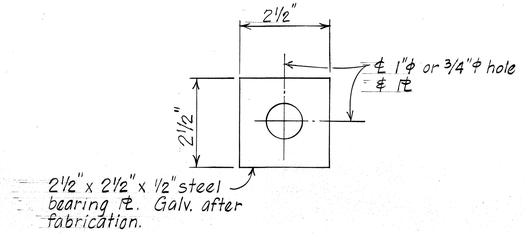


ELEVATION



PLAN

TYPICAL METAL GUARD RAIL CONNECTION TO EXISTING END POST Scale: 1/4" = 1'-0"



BEARING ℔ DETAIL

(AT END POST BOLTS ONLY)

Scale: ½" = 0'-1"

NOTES:

1. All anchor bolts shall be high strength bolts conforming to the requirements of ASTM A-325.
2. All anchor bolts, nuts, washers and steel plates shall be hot dip galvanized after fabrication.
3. First 2 elements (25'-0") of thrie beam guard rail, adjoining terminal connector, shall be of galvanized steel.
4. Pneumatic type of equipment for drilling of holes through existing concrete end post for anchor bolts will not be permitted.
5. Any damage to the existing structures due to the Contractor's operation shall be repaired, at his expense, to the satisfaction of the Engineer.
6. The work necessary to connect guard rails to bridge end posts shall include all labor, materials, tools, equipment and incidentals necessary to complete the work. This work will not be measured or paid for but shall be considered incidental to Item No. 606.3140 - Guard Rail, Type 3 (Thrie Beam) Single with Steel Post.

SYMBOL:

ORIGINAL PLAN	SURVEY PLOTTED BY		DATE	Apr 80
	DRAWN BY	NY	"	"
NOTE BOOK	TRACED BY		"	"
	DESIGNED BY	TS	"	"
No.	QUANTITIES BY		"	"
	CHECKED BY	TS LA	"	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

TYPICAL DETAILS

GUARD RAIL STRUCTURE CONNECTION

LIKELIKE HIGHWAY

Kalihi Stream Bridge Toward Kahekili Hwy.

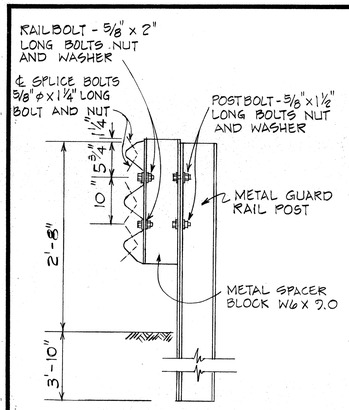
PHASE I

PROJECT NO. LT-0-06-79

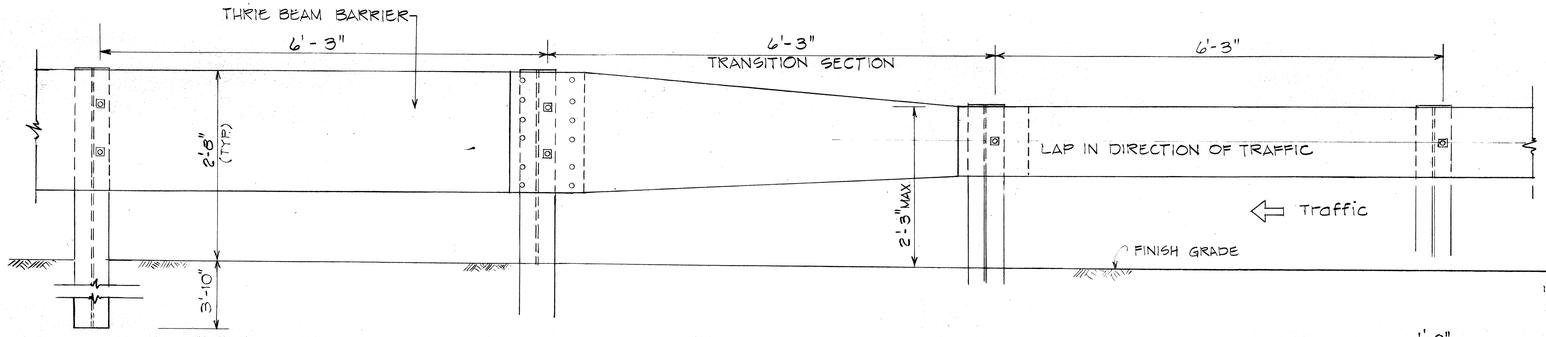
Scale: As shown Date: March 1980

SHEET No. 2 OF 11 SHEETS

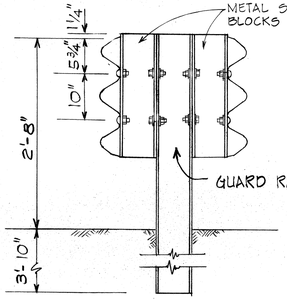
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	LT-0-06-79	1980	11	45



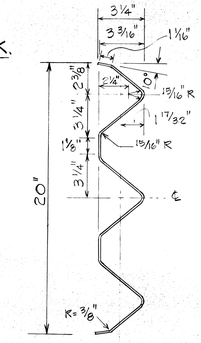
SINGLE METAL GUARD RAIL ON METAL POST W/METAL SPACER BLK.



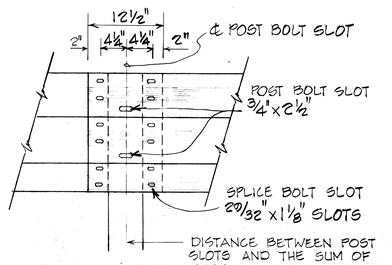
TRANSITION SECTION
Scale: 1"=1'-0"



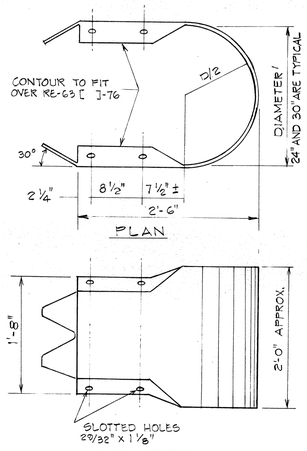
DOUBLE METAL GUARD RAIL ON METAL POST WITH METAL SPACER BLOCK
1" = 1'-0"



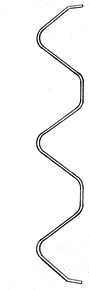
SECTION THRU RAIL ELEMENT
Scale: 1½" = 1'-0"



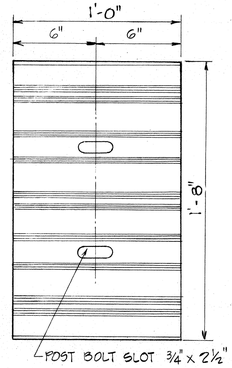
RAIL SPLICE
1" = 1'-0"



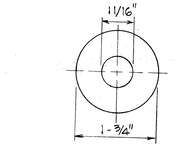
END SECTION (BUFFER)
Scale: 1" = 1'-0"



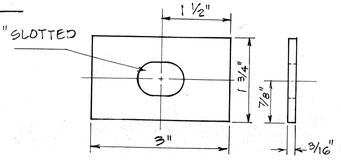
BACK UP PLATE



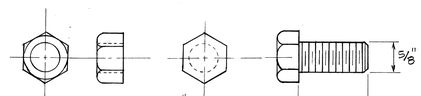
TRANSITION SECTION



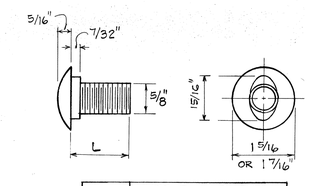
STEEL WASHER FOR 5/8" BOLT



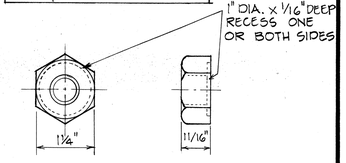
RECTANGULAR PLATE WASHER



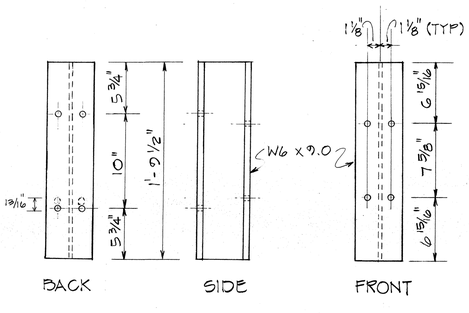
5/8" HEX BOLT AND NUT



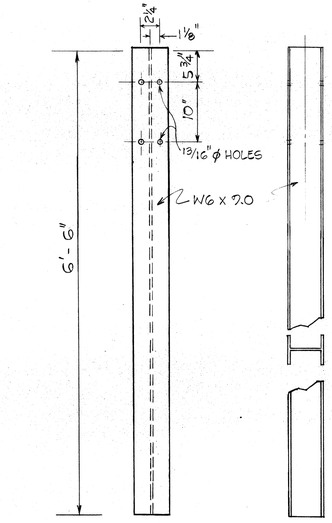
L	THREAD LENGTH
1¼"	FULL THREAD
2"	1½" MIN THREAD LENGTH



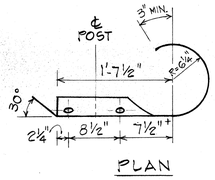
5/8" BUTTON HEAD BOLTS AND RECESS NUT

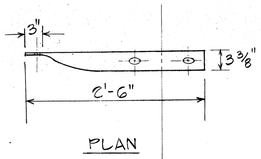


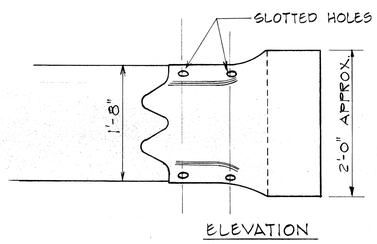
SPACER BLOCK



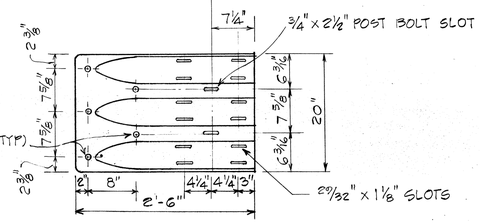
POST DETAILS
1" = 1"=0"







END SECTION (ROUNDED)
1" = 1'-0"



ELEVATION

TERMINAL CONNECTOR
1" = 1'-0"

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

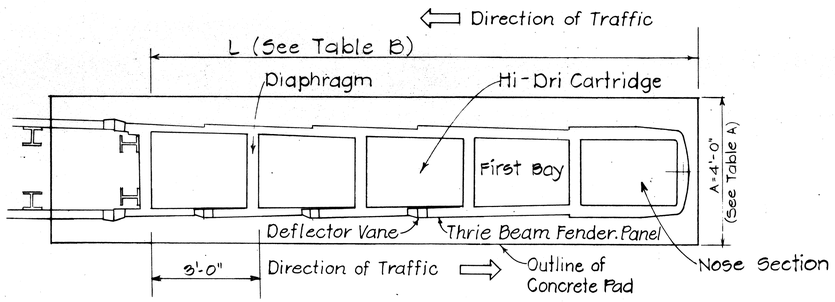
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

TYPICAL DETAIL
GUARD RAIL TYPE 3. THRIE BEAM

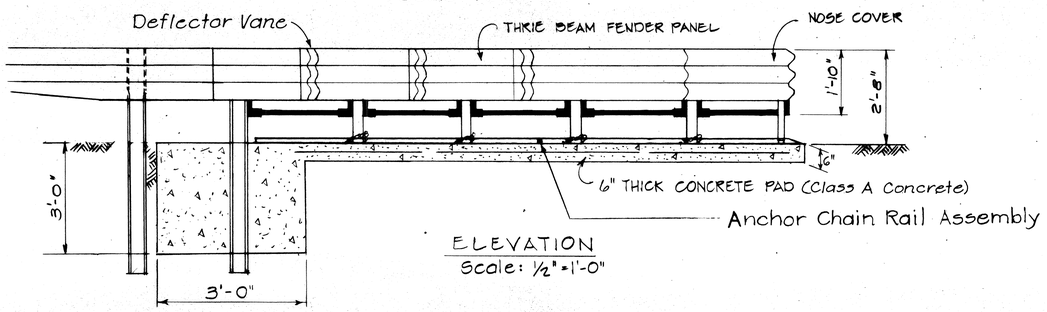
Scale: As Shown Date: April, 1980

SHEET No. 3 OF 11 SHEETS

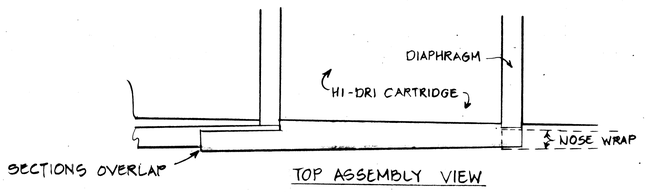
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-TO-06-79	1980	12	45



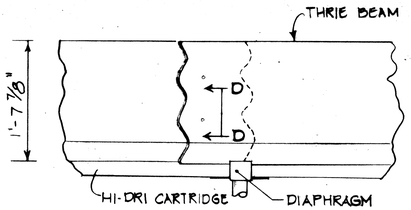
PLAN
Scale: ½"=1'-0"



ELEVATION
Scale: ½"=1'-0"

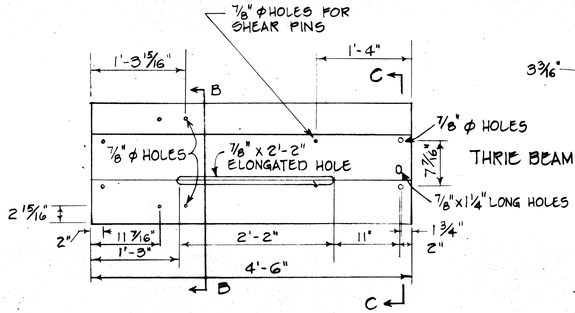


TOP ASSEMBLY VIEW

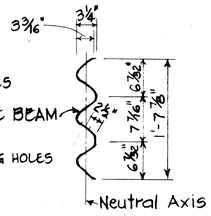


SIDE ASSEMBLY VIEW

SECTION D-D



SIDE VIEW
Scale: 1"=1'-0"

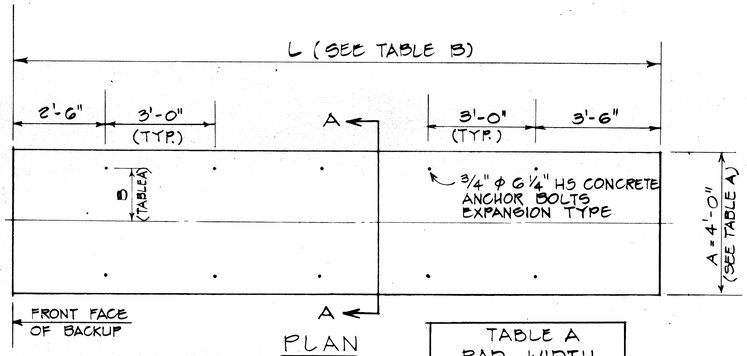


SECTION C-C

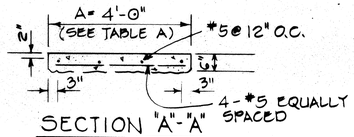
SECTION B-B

NOTE:

1. The Contractor shall verify with the manufacturer, any amendments or revisions thereof as may be made from time to time, shall be used in this project.
2. Constant longitudinal and transverse slope throughout Concrete Pad.
3. Concrete Pad cross slope shall not exceed 3%.
4. Outline of concrete pad shall match grades with surrounding median area.



PLAN

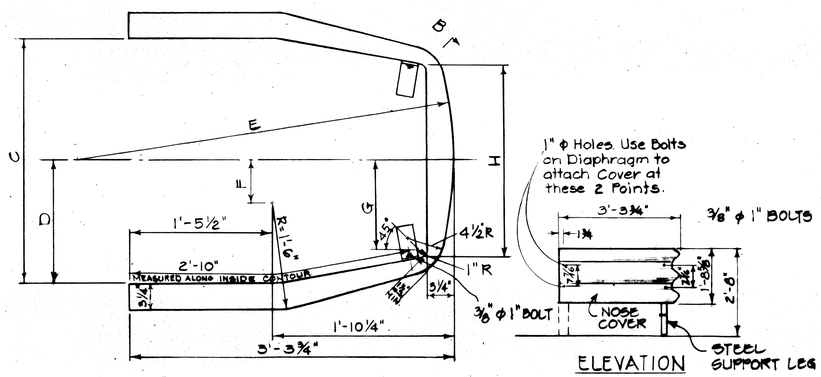


SECTION "A"-"A"

CONCRETE PAD DETAILS
Scale: ½"=1'-0"

TABLE A PAD WIDTH		
MODEL NO.	A	B
200200	4'-0"	1'-0"
200206	4'-0"	1'-3"
300300	4'-0"	1'-6"

TABLE B PAD LENGTH		
NO. OF BATS	L	ANCHOR BOLTS QUAN.
4	15'-6"	14
5	18'-6"	16
6	21'-6"	20
7	24'-6"	22
8	27'-6"	24
9	30'-6"	26
10	33'-6"	30
3	12'-6"	12



PLAN
N.T.S.

ELEVATION

TABLE C							
UNIT SIZE	ASST. NO	C	D	E	F	G	H
2'-0"	35-02-031	2'-0"	1'-0"	2'-1⅝"	3¼"	8"	1'-6"
2'-6"	35-02-032	2'-6"	1'-3"	3'-10"	6¼"	11"	2'-0"
3'-0"	35-02-032	2'-6"	1'-3"	3'-10"	6¼"	11"	2'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION-FACILITIES DIVISION

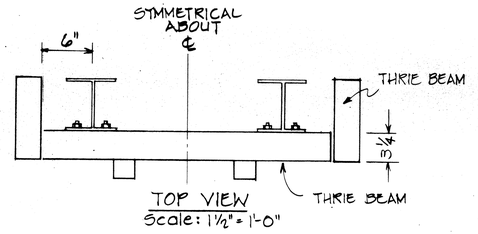
DETAILS OF GUARD RAIL ENERGY ABSORBING TERMINAL

Scale: As Shown Date: 1978

SHEET NO. 4 OF 11 SHEETS

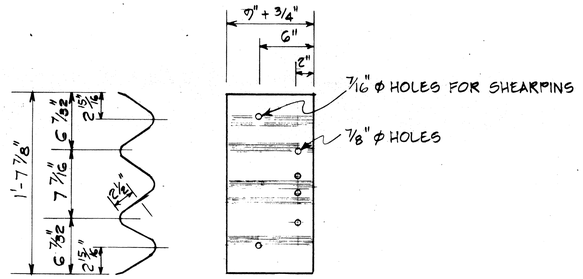
ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | NO. | NOTE BOOK

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	LT-0-06-79	1980	13	45

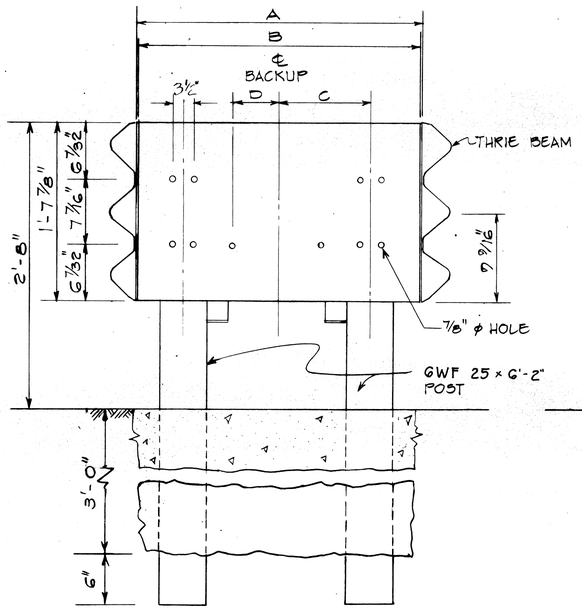


TOP VIEW
Scale: 1½"=1'-0"

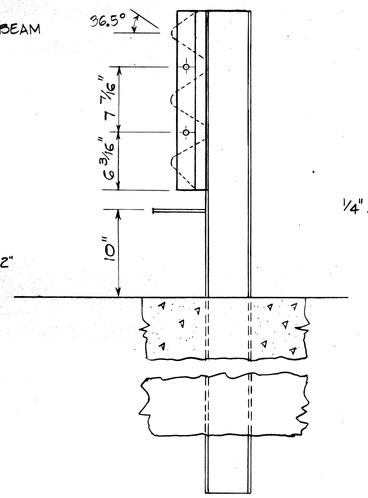
BACKUP WIDTH TABLE				
UNIT WIDTH	A	B	C	D
2'-0"	2'-0"	1'-11½"	0'-6"	2"
2'-6"	2'-6"	2'-5½"	0'-9"	5"
3'-0"	3'-0"	2'-11½"	1'-0"	8"



DETAIL OF THRIE BEAM
LEFT SIDE PANEL SHOWN
RIGHT SIDE OPPOSITE

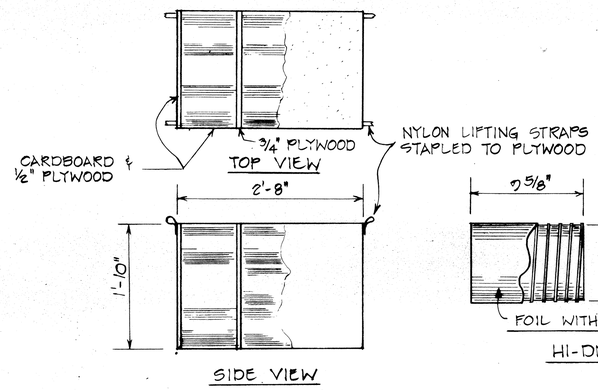


FRONT VIEW

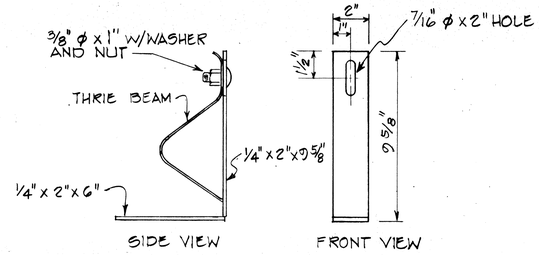


SIDE VIEW

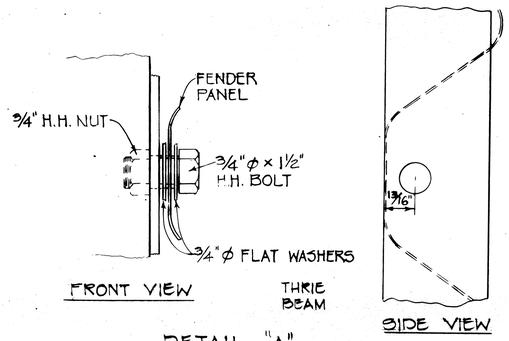
WIDE FLANGE BACKUP
(FOR NARROW UNITS)
Scale: 1½"=1'-0"



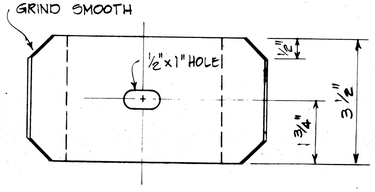
HI-DRI CARTRIDGE
Not to Scale

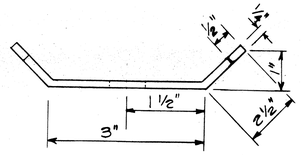


CARTRIDGE CLIP DETAIL
Scale: 3"=1'-0"



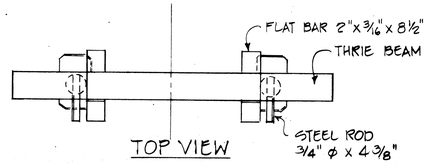
DETAIL "A"
Scale: ½"=1"

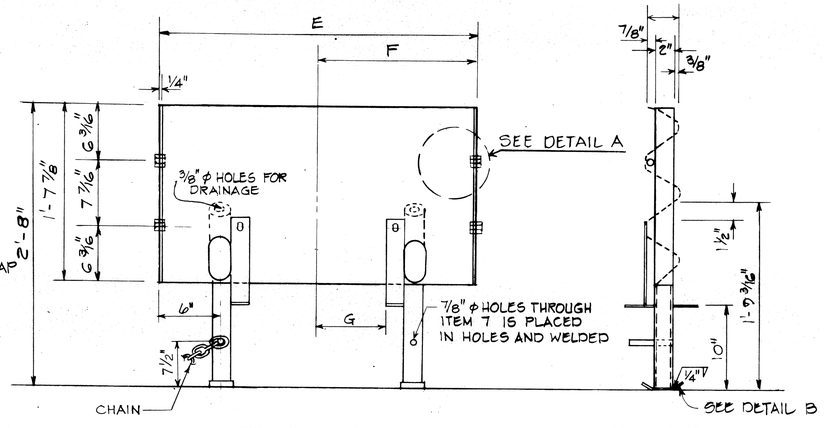




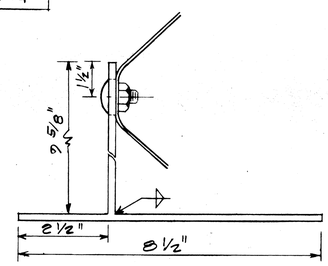
DETAIL B
Scale: 6"=1'-0"

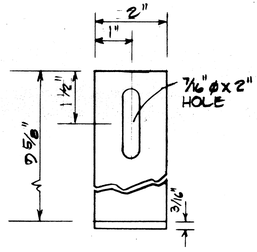
DIAPHRAM WIDTH TABLE			
MODEL NO	E	F	G
2002005	2'-0"	1'-0"	
2062063	2'-6"	1'-3"	5 3/4"
3003005	3'-0"	1'-6"	8 3/4"





THRIE BEAM DIAPHRAGM DETAILS
Scale: 1½"=1'-0"





CARTRIDGE CLIP DETAIL
Scale: 6"=1'-0"

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

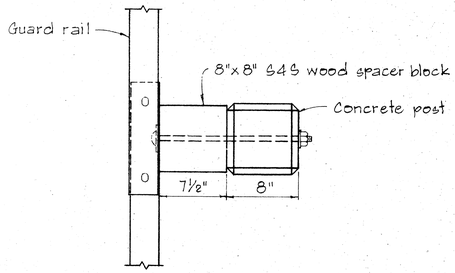
DETAILS OF GUARD RAIL ENERGY ABSORBING TERMINAL

Scale: As Shown Date: 1978

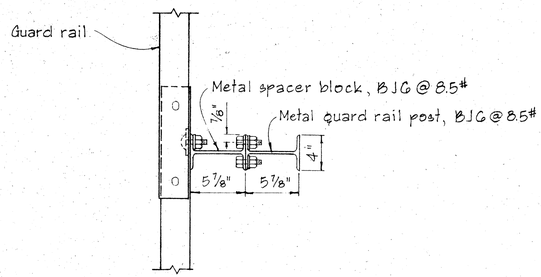
SHEET No. 5 OF 11 SHEETS

13

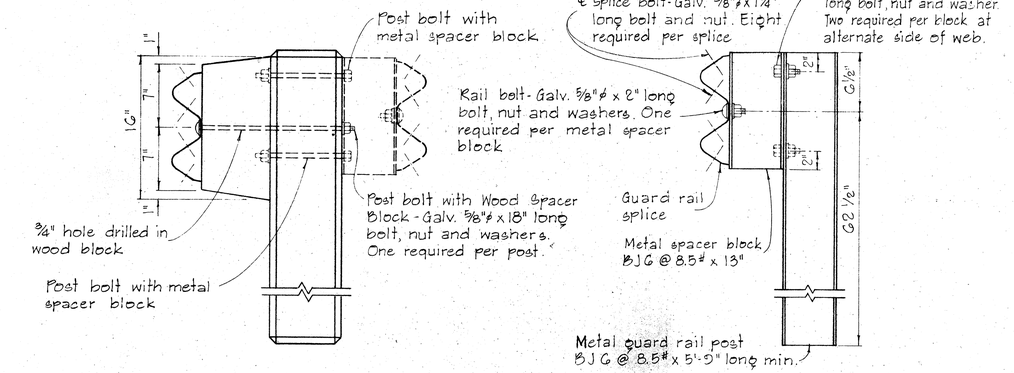
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	LT-0-0679	1980	14	45



PLAN

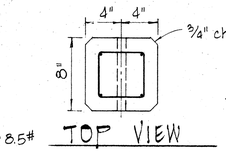


PLAN



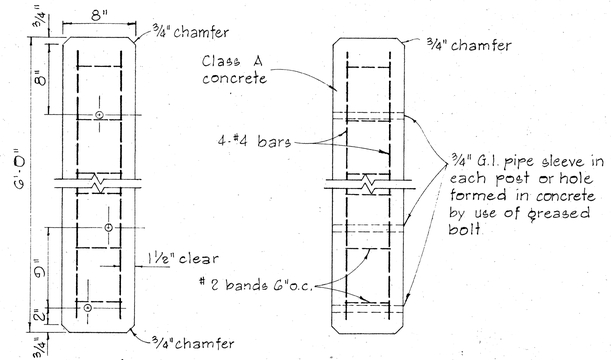
SINGLE METAL GUARD RAIL ON PRECAST CONCRETE POST WITH WOOD OR METAL SPACER BLOCK

SCALE: 1½" = 1'-0"



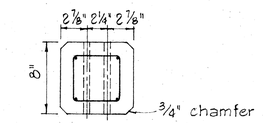
TOP VIEW

NOTE:
Concrete post shall be precast



FRONT VIEW

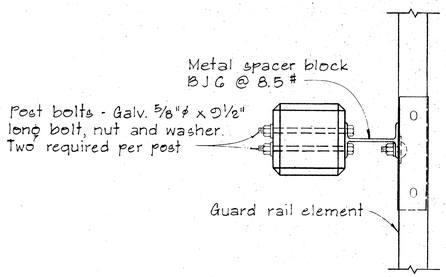
SIDE VIEW



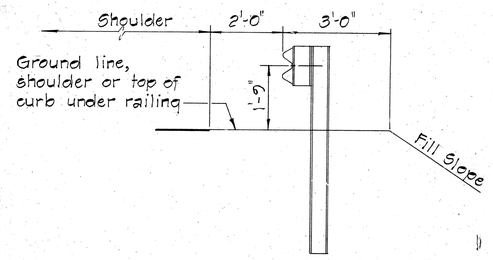
BOTTOM VIEW

DETAIL OF CONCRETE POST

SCALE: 1½" = 1'-0"



PLAN



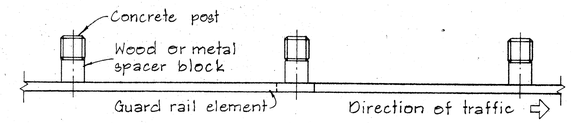
AT SHOULDER SECTION

SINGLE METAL GUARD RAIL ON METAL POST WITH METAL SPACER BLOCK

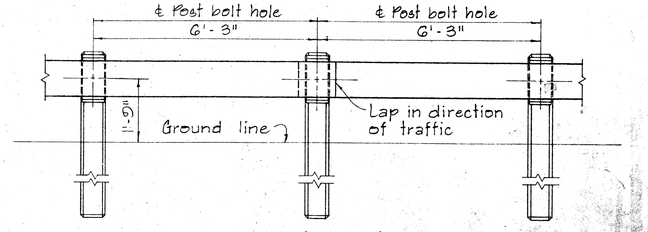
SCALE: 1½" = 1'-0"

TYPICAL METAL GUARD RAIL DETAIL

SCALE: ½" = 1'-0"



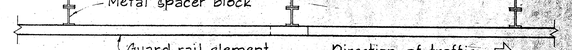
PLAN



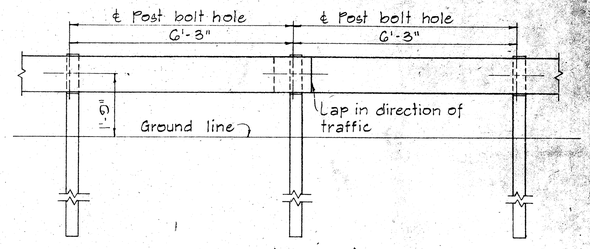
ELEVATION

METAL GUARD RAIL ON CONCRETE POST WITH WOOD OR METAL SPACER BLOCK

SCALE: ½" = 1'-0"



PLAN



ELEVATION

METAL GUARD RAIL ON METAL POST WITH METAL SPACER BLOCK

SCALE: ½" = 1'-0"

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

APPROVAL RECOMMENDED:
Eiichi Tanaka — TRAFFIC ENGINEER — 12/29/69 DATE

APPROVED:
Richard S. Sakai — ASSISTANT CHIEF, ENGINEERING — 12-30-69 DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS

METAL GUARD RAIL

SCALE: AS SHOWN — NOV. 1968

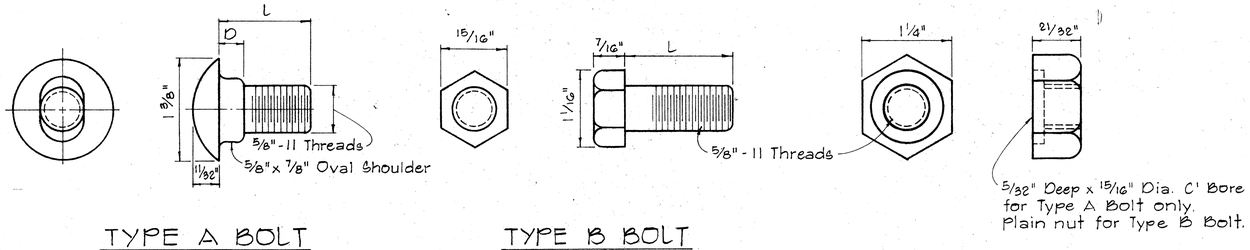
SHEET No. 6 OF 11 SHEETS | DT 500

PRINTED ON NO. 1000H CLEARPRINT

BOLT DIMENSIONS		
TYPE A BOLT	D	L
Splice Bolt	5/16"	1 1/4"
Post Bolt for Conc. Post w/ Double Wood Blocks	3/32"	24"
Post Bolt for Conc. Post w/ Single Wood Block	3/32"	18"
Rail Bolt for Metal Block	3/32"	2"

BOLT DIMENSIONS	
TYPE B BOLT	L
Post Bolt for Conc. Post w/ Metal Blocks	9 1/2"
Post Bolt for Metal Post w/ Metal Block	1 3/4"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	LT-0-06-79	1980	15	45



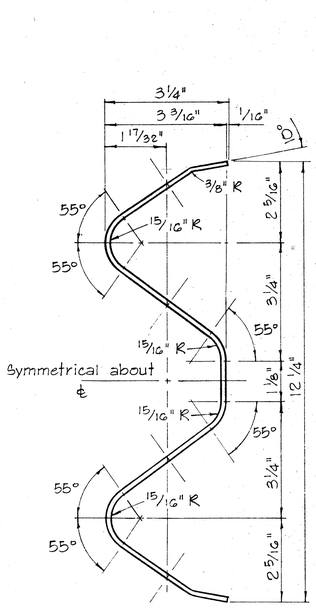
TYPE A BOLT TYPE B BOLT

SPLICE RAIL AND POST BOLTS

Scale : Full Size

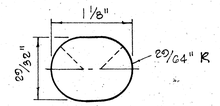
HEXAGON NUT

Scale: Full Size

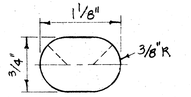


RAIL ELEMENT SECTION

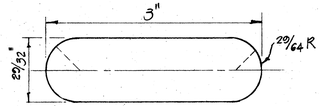
Scale: 6"=1'-0"



SPLICE BOLT SLOT

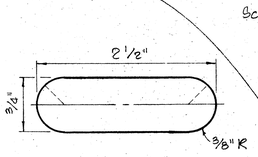


SPLICE BOLT SLOT FOR ALL ENDS

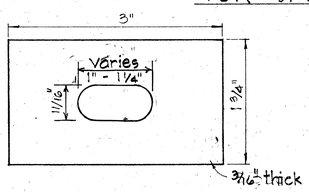


SPLICE BOLT SLOT FOR SPECIAL END SHOE

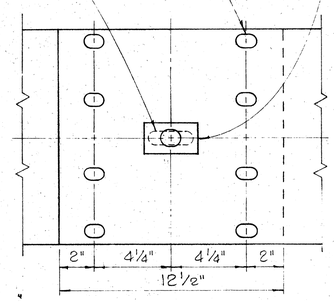
Scale: Full Size



POST BOLT SLOT



RAIL WASHER



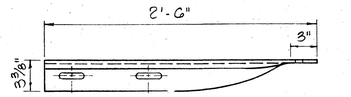
RAIL SPLICE

Scale: 3"=1'-0"

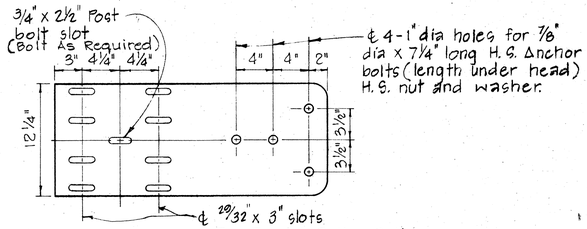
NOTES:

1. H.S. Bolts shall conform to the requirements of ASTM A 325.
2. Special End Shoe shall be fabricated from 10 Gage steel conforming to the requirements of AASHO M 180.

MEDIAN END DIMENSIONS		
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 Concrete Post with Metal Blocks (BJG)	26 1/2"	13 1/4"
Double Metal Guard Rail on Metal Post with Metal Blocks (BJG)	24 3/8"	12 3/16"



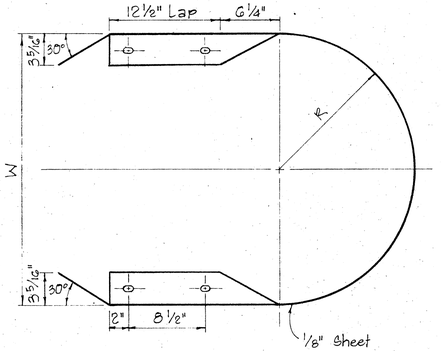
← Lap in direction of traffic



SPECIAL END SHOE

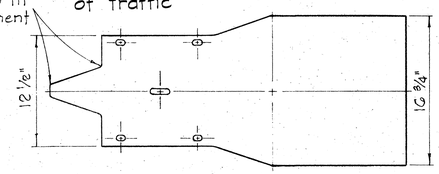
Scale : 1 1/2" = 1'-0"

← Lap in direction of traffic



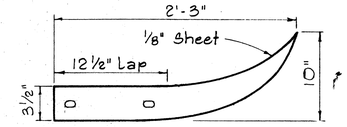
Shape to fit rail element

Lap in direction of traffic →

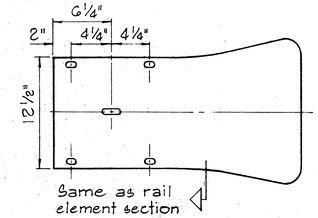


MEDIAN END

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

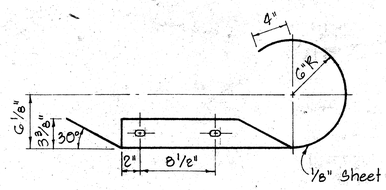


← Lap in direction of traffic

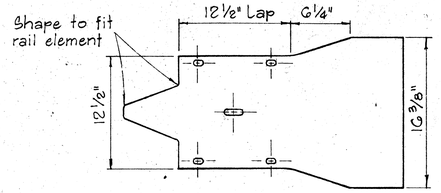


FLARED END

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



← Lap in direction of traffic



CURVED END

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

APPROVAL RECOMMENDED:
Eiichi Tanaka — TRAFFIC ENGINEER — 12/23/69 DATE

APPROVED:
Harlan G. Kemp — ASSISTANT CHIEF, ENGINEERING — 12-30-69 DATE

NO.	REVISION	APPROVED BY	DATE
1	Revised Hole Size for Rectangular Rail Washer	H.T.	8/15/77

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

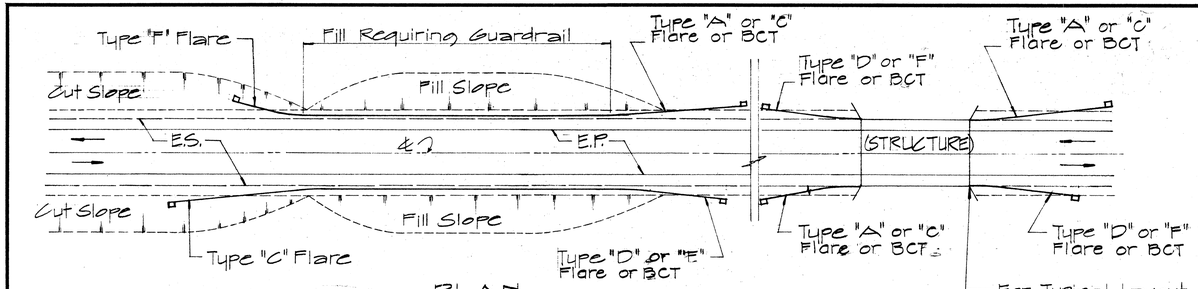
STANDARD DETAILS
METAL GUARD RAIL

Scale: As Noted August, 1968

SHEET No. 7 OF 11 SHEETS DT 501

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

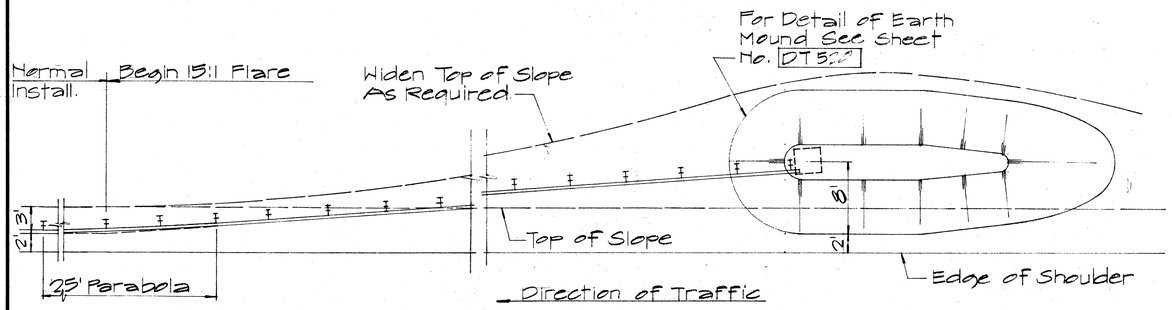
PRINTED ON NO. 1000H CLEARPRINT



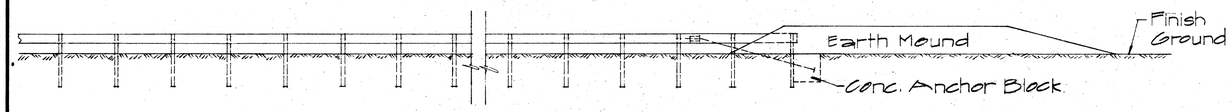
PLAN

TWO WAY ROADWAY

Sc. 1" = 40'



PLAN



ELEVATION

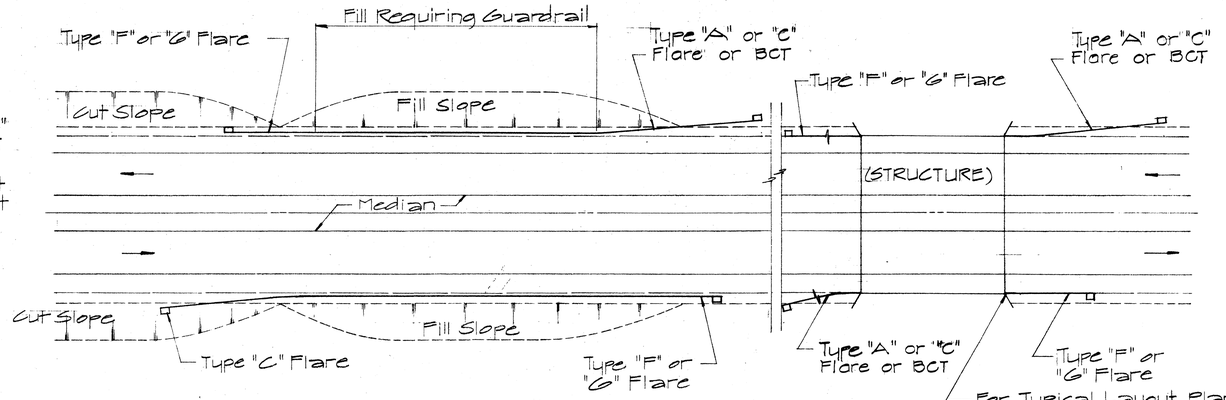
TYPE "A" FLARE

Sc. 1/8" = 1'-0"

NOTE:

1. Metal guard rail connection to structures requires End Post Connection. See structure plans.
2. For detail of Breakaway Cable Terminal (BCT) See Sheet No. DT 519

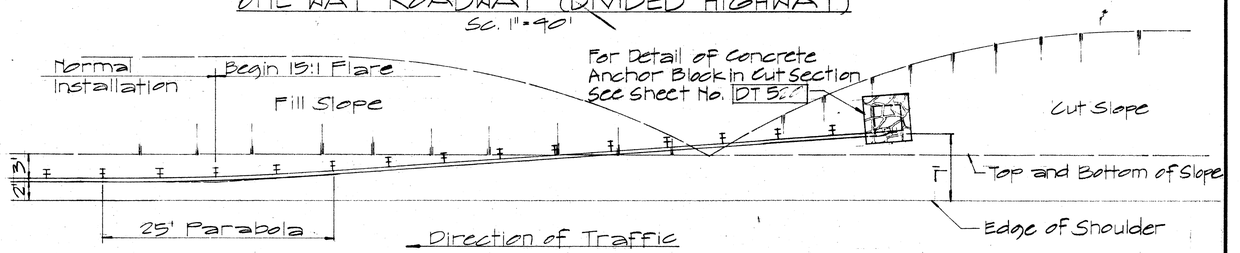
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	LF0-06-79	1980	16	45



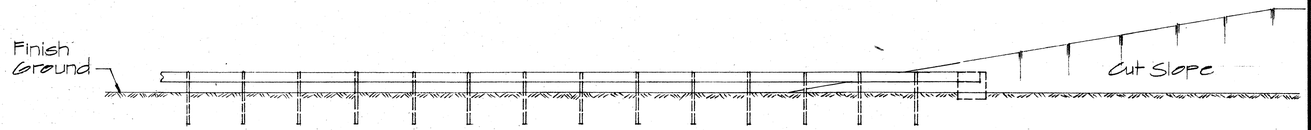
PLAN

ONE WAY ROADWAY (DIVIDED HIGHWAY)

Sc. 1" = 40'



PLAN



ELEVATION

TYPE "C" FLARE

Sc. 1/8" = 1'-0"

APPROVAL RECOMMENDED:

Eiichi Tanaka — TRAFFIC ENGINEER — 12/29/69 DATE

APPROVED:

ASSISTANT CHIEF, ENGINEERING — 12-30-69 DATE

NO.	REVISION	APPROVED BY	DATE
1	Delete Type "B" Flare and Type "E" Flare	H.T.	6/15/78

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS OF APPROACH END FLARE - ONE & TWO WAY ROADWAY

Sc. As Noted — April 1969

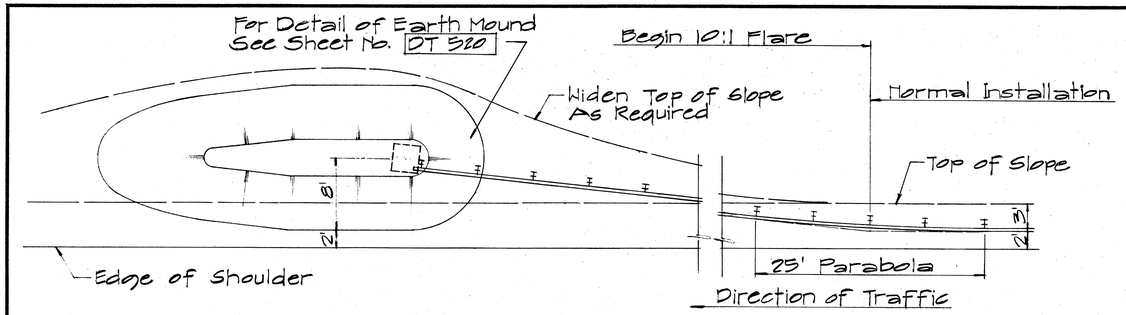
SHEET No. 8 OF 11 SHEETS DT 516

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

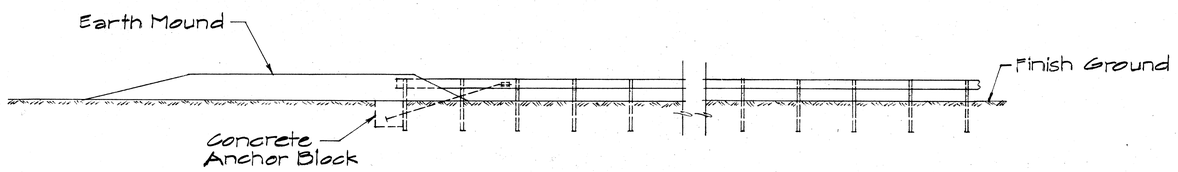
PRINTED ON NO. 1000H CLEARPRINT

16

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-7-0-0679	1980	17	45



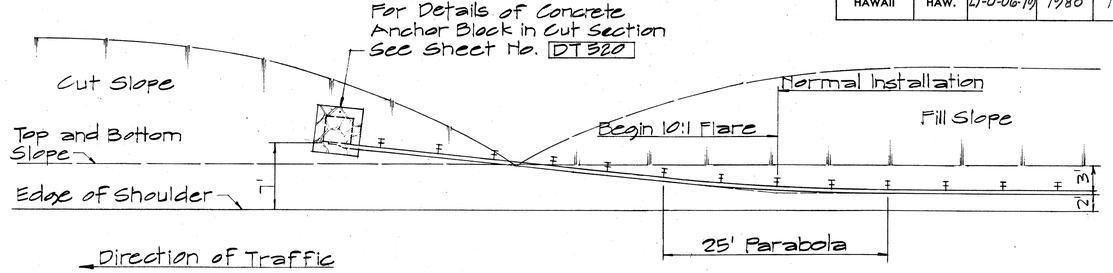
PLAN



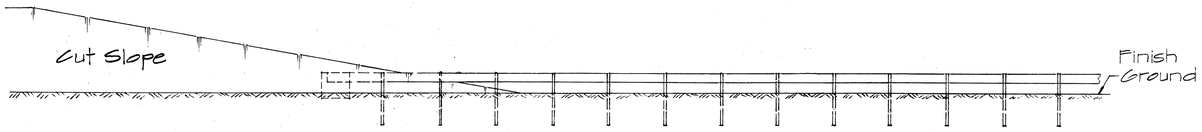
ELEVATION

TYPE "D" FLARE

Sc. 1/8" = 1'-0"



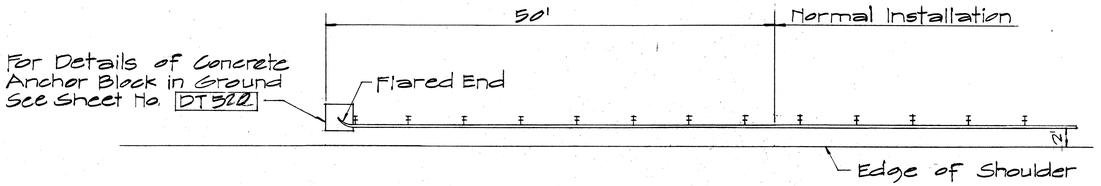
PLAN



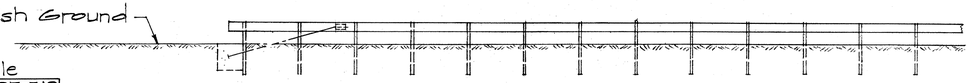
ELEVATION

TYPE "F" FLARE

Sc. 1/8" = 1'-0"



PLAN



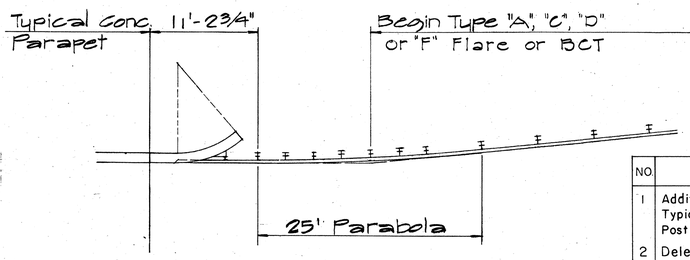
NOTE:

For detail of Breakaway Cable Terminal (BCT) See Sheet No. DT 517

ELEVATION

TYPE "G" FLARE

Sc. 1/8" = 1'-0"



TYPICAL LAYOUT PLAN OF END POST CONNECTION

Sc. 1/8" = 1'-0"

NO.	REVISION	APPROVED BY	DATE
1	Additional Posts Added to Typical Layout Plan Of End Post Connection	H.T.	4-12-72
2	Delete Type "B" Flare and Type "E" Flare	H.T.	6-15-78

APPROVAL RECOMMENDED:

Eiichi Tanaka — 12/29/69

TRAFFIC ENGINEER — DATE

APPROVED:

[signature] — 12-30-69

ASSISTANT CHIEF, ENGINEERING — DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

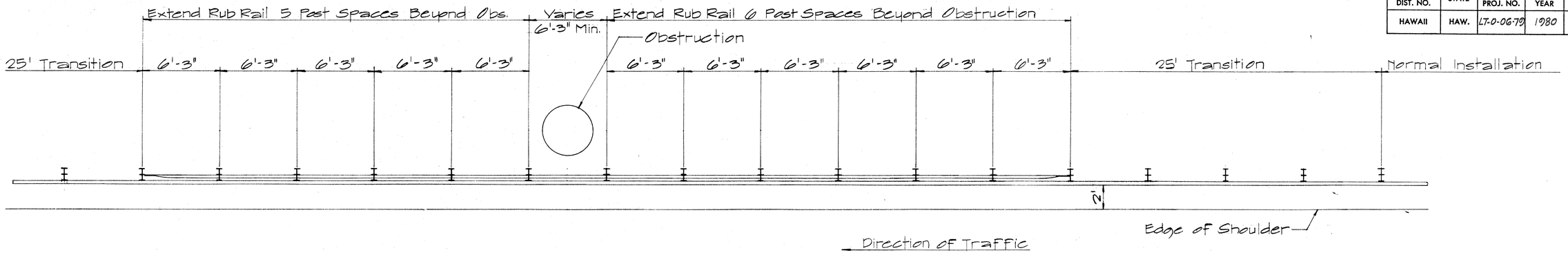
STANDARD DETAILS TRAILING END FLARE - ONE & TWO WAY ROADWAY

Scale: As Noted — April 1967

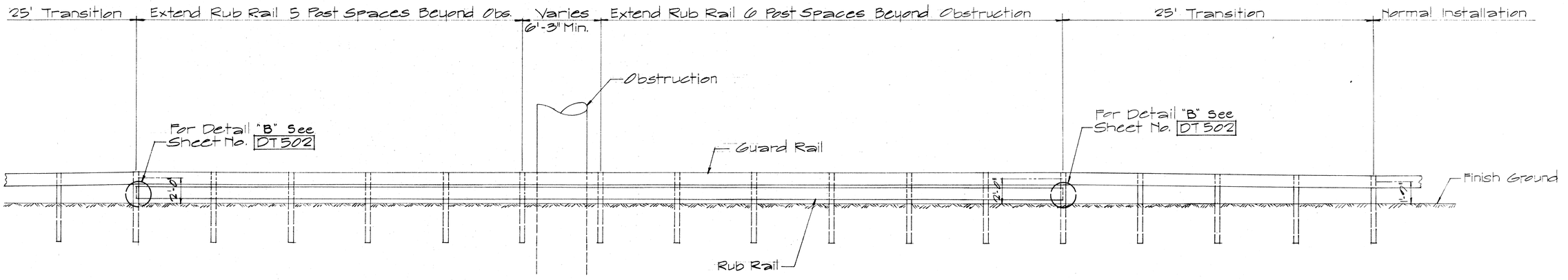
SHEET No. 9 OF 11 SHEETS | DT 517

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	LT-0-06-79	1980	18	45



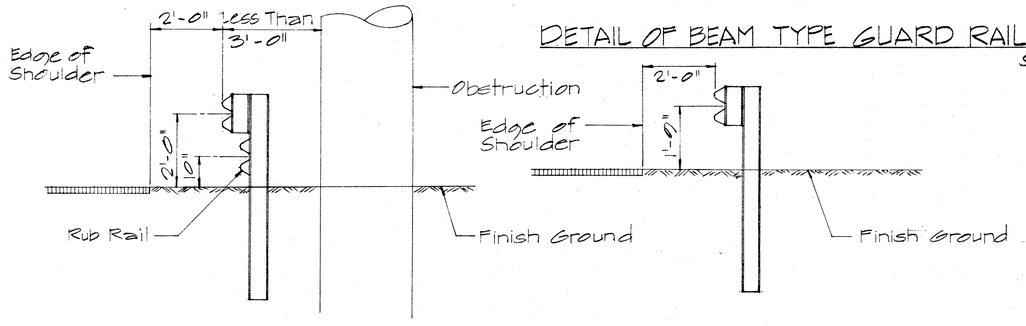
PLAN



ELEVATION

DETAIL OF BEAM TYPE GUARD RAIL WITH RUB RAIL AT OBSTRUCTION

Sc. 1/4" = 1'-0"



TYP. SEC. AT OBSTRUCTION

TYP. SEC. AT NORMAL INSTALLATION

TYP. GUARD RAIL SECTIONS

Sc. 1 1/2" = 1'-0"

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

APPROVAL RECOMMENDED:

Eiichi Tanaka — 12/29/69
TRAFFIC ENGINEER — DATE

APPROVED:

Stanley S. Sakai — 12-30-69
ASSISTANT CHIEF, ENGINEERING — DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAIL

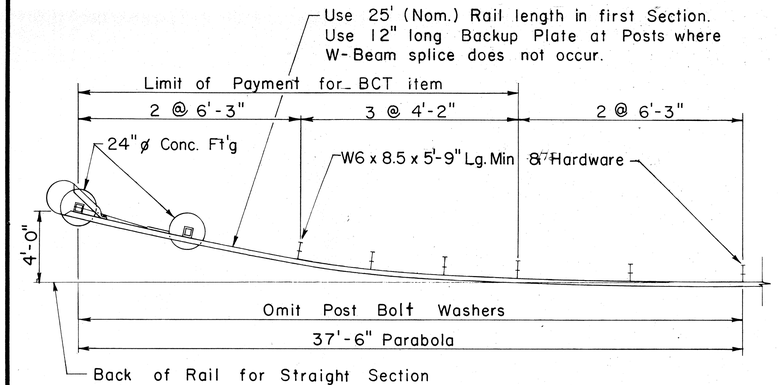
BEAM TYPE GUARD RAIL WITH RUB RAIL AT OBSTRUCTION (SHOULDER INSTALL)

SC. AS SHOWN — DATE: JUNE 1960

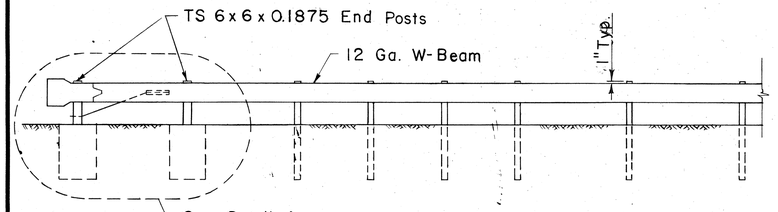
SHEET No. 10 OF 11 SHEETS | DT 516

K+E CRYSTALENE® LA 2920 TRACING PAPER

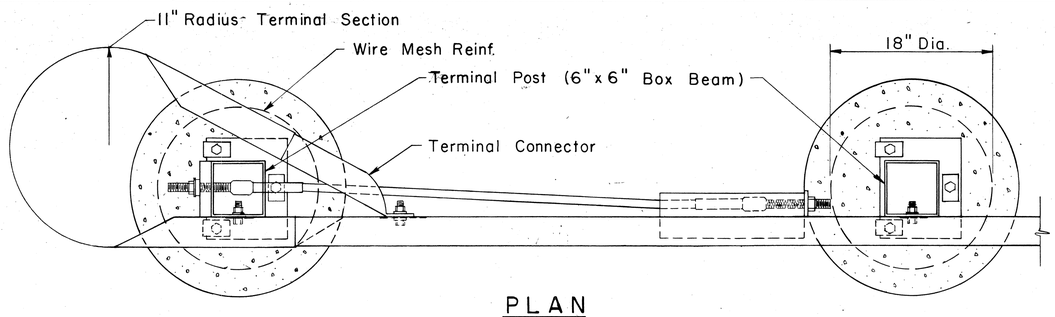
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	LT-0-06-79	1980	19	45



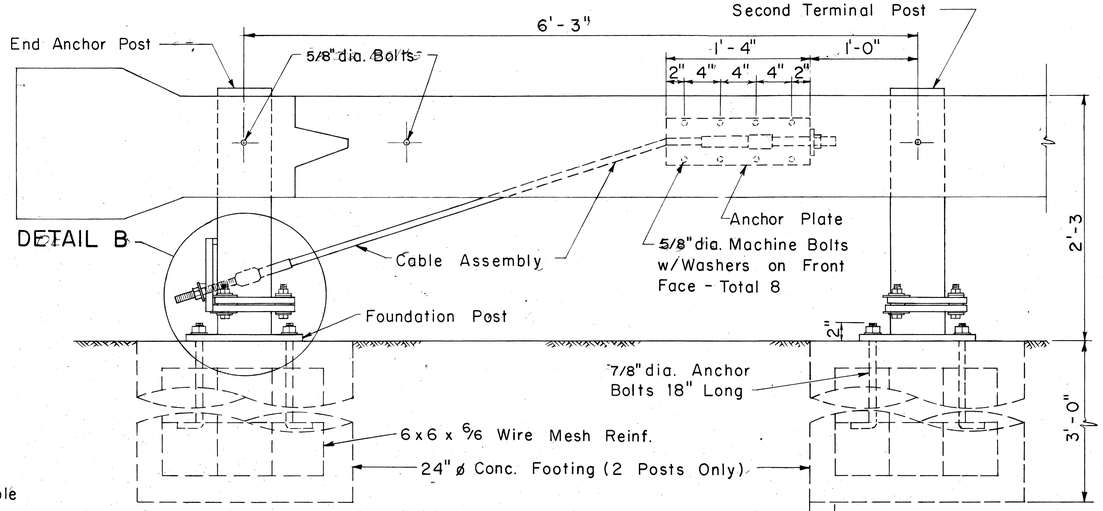
PLAN
Scale: 1/4" = 1'-0"



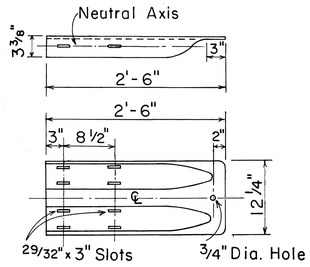
ELEVATION
Scale: 1/4" = 1'-0"



PLAN



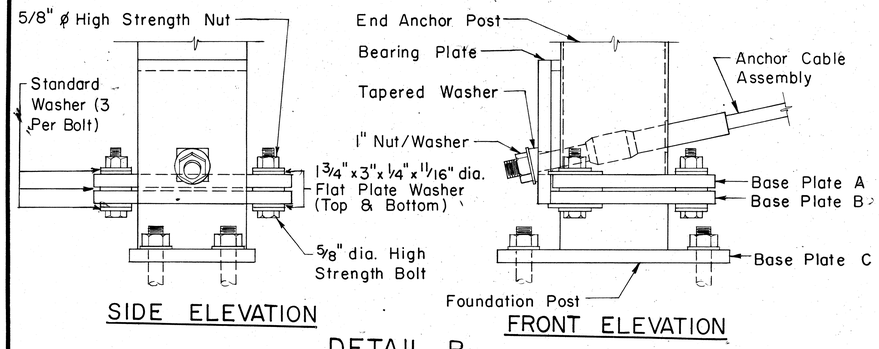
ELEVATION



TERMINAL CONNECTOR
Scale: 1" = 1'-0"

NOTES:

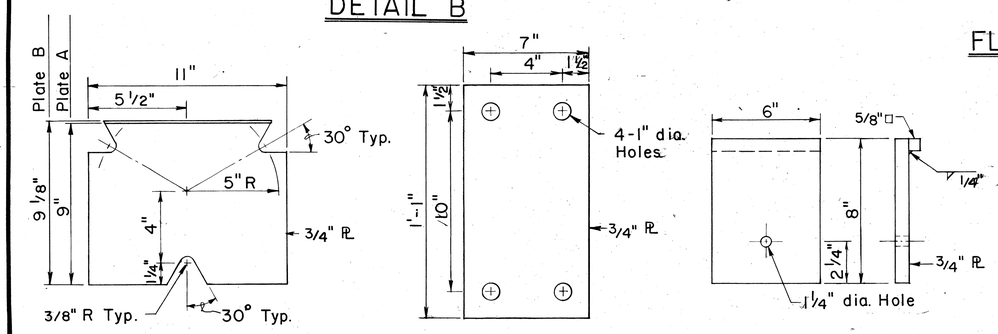
1. Anchor Plate and Anchor Cable Assembly (Standard Swaged Fitting and Stud). See Standard Detail Sheet No. DT 520.
2. Other Anchor Cable Assemblies may be used. Minimum breaking strength of assembly should be 40,000 lbs.
3. Second Terminal Post does not require holes to accomodate Anchor Cable.
4. Slip Base Load shall be controlled with a Calibrated Torque Wrench - Torque 155 - 170 ft. lbs.
5. Concrete shall be Class A.



SIDE ELEVATION

FRONT ELEVATION

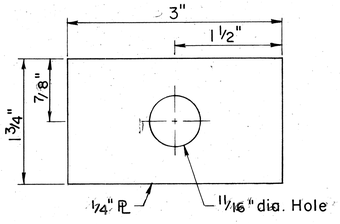
DETAIL B



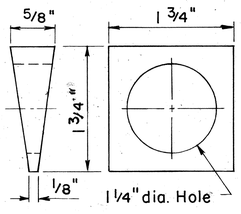
BASE PLATES A & B
Scale: 3" = 1'-0"

BASE PLATE C
Scale: 3" = 1'-0"

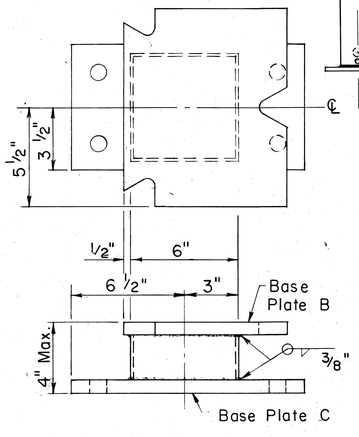
BEARING PLATE
Scale: 3" = 1'-0"



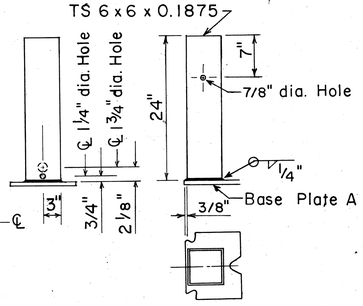
FLAT PLATE WASHER
Scale: Full Size



TAPERED WASHER
Scale: Full Size



FOUNDATION POST
Scale: 3" = 1'-0"



TERMINAL POST
Scale: 1" = 1'-0"

APPROVAL RECOMMENDED:

Eiichi Tanaka — TRAFFIC ENGINEER — 6/14/78 DATE

APPROVED:

Herbert Zakahi — ASSISTANT CHIEF, ENGINEERING — 6/15/78 DATE

NO.	REVISION	APPROVED BY	DATE
	Supersedes Sht. DT 519 Approved 12/30/69	H.T.	6/15/78

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAIL

BREAKAWAY CABLE TERMINAL (BCT)

Scale: As Shown — Date: June 1978

SHEET No. // OF // SHEETS DT 519

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