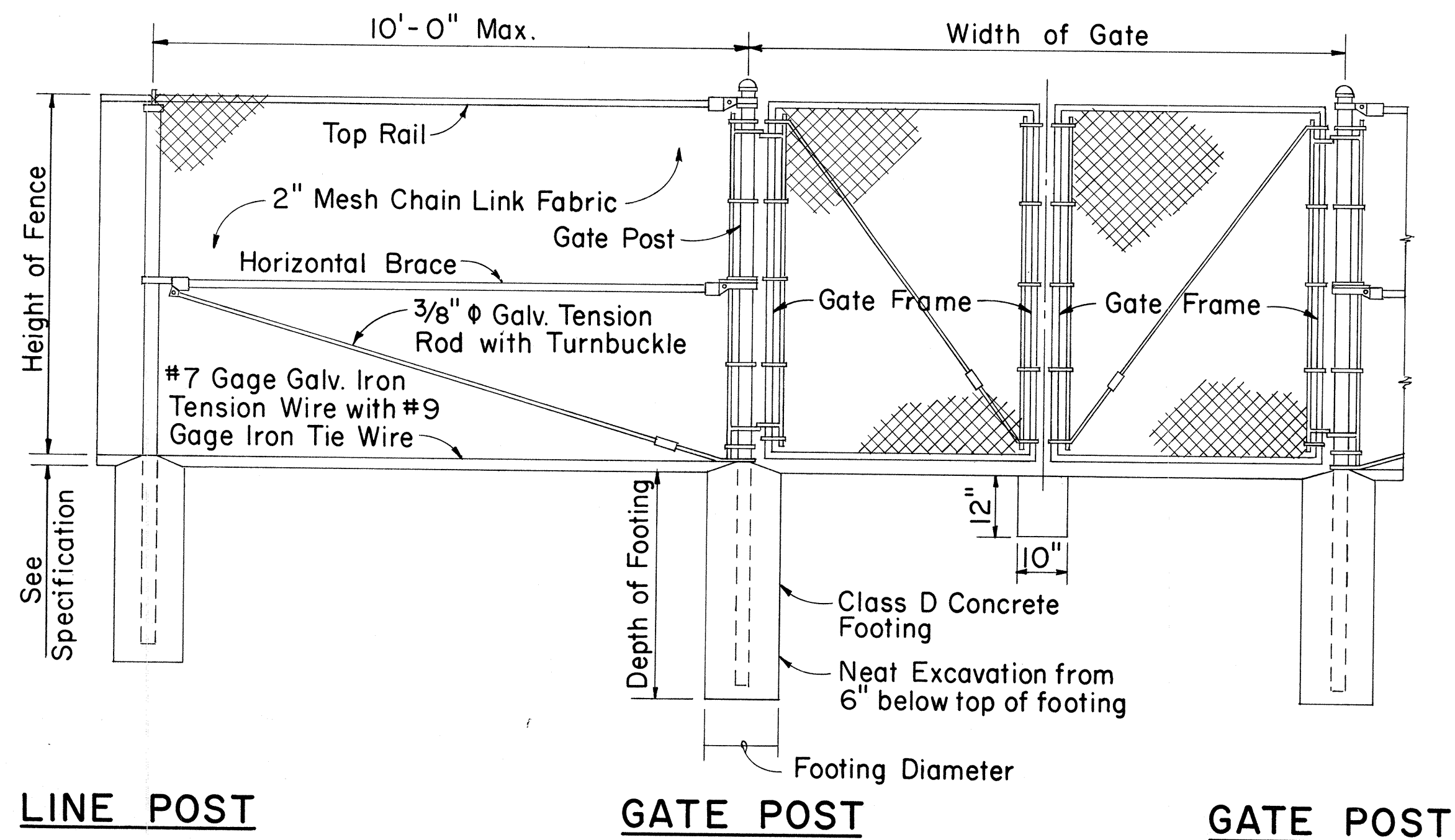




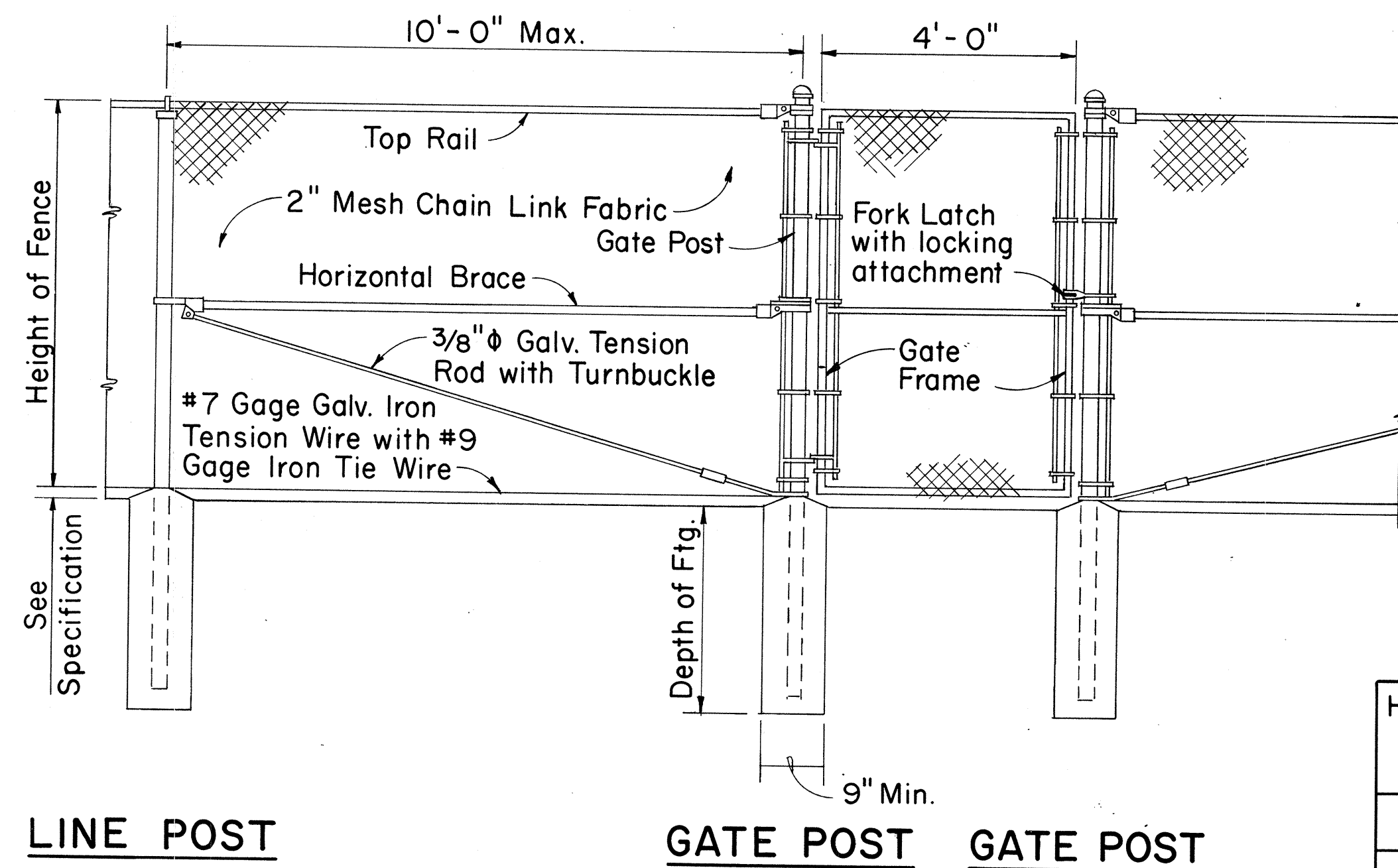
LINE POST

GATE POST

GATE POST

DETAIL OF CHAIN LINK GATE

- NOTE: 1. Gate fork latch and lock, flush plate and anchor, and plunger shall be installed with Gates, and shall be considered as incidental to Chain Link Fence Gate.
2. Gate frames shall be mitered and welded at corners.
3. Fence detail not shown shall be in accordance with the Standard Specifications.

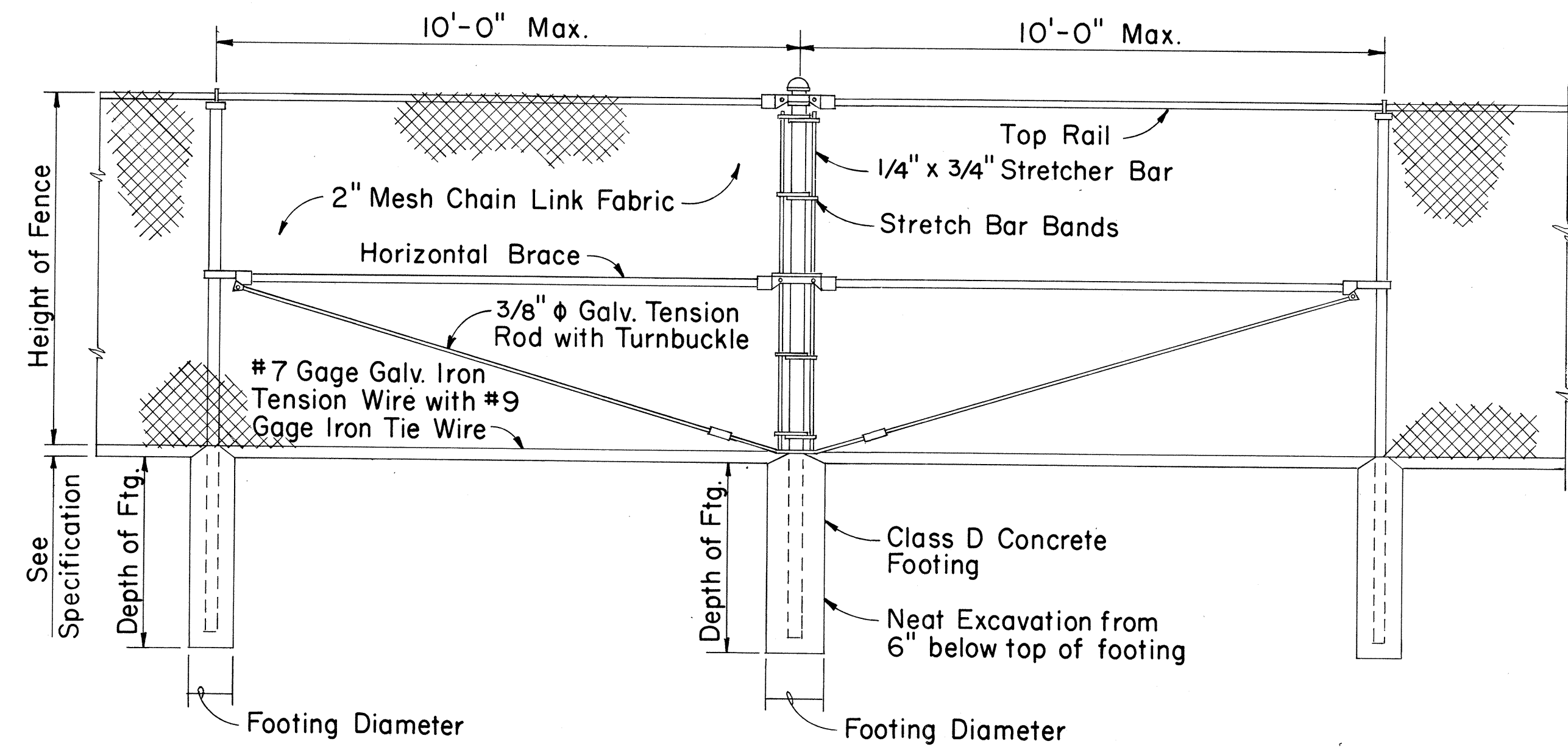


LINE POST

GATE POST

GATE POST

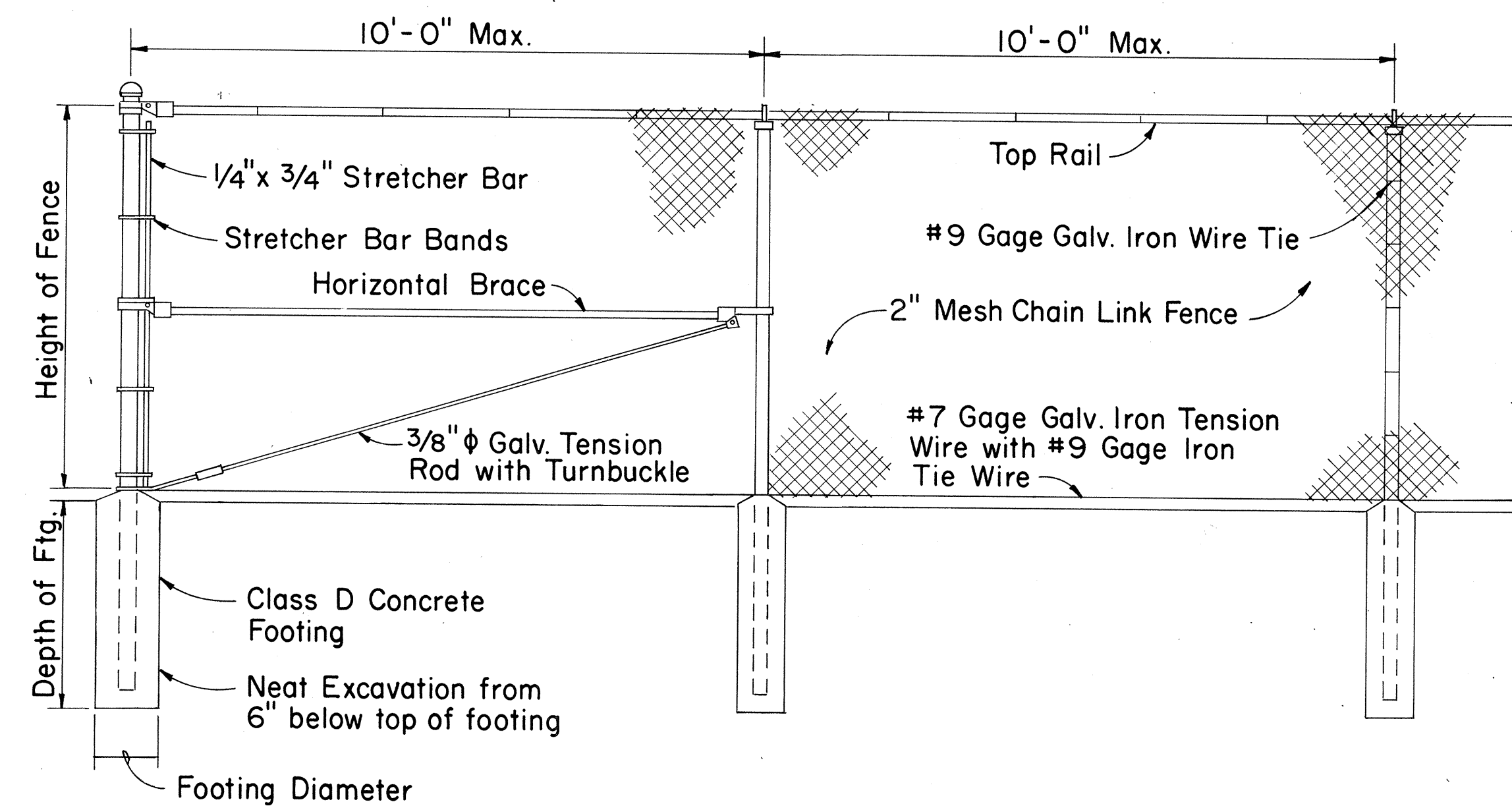
DETAIL OF 4 FT. CHAIN LINK GATE



LINE POST

PULL POST

LINE POST



END POST

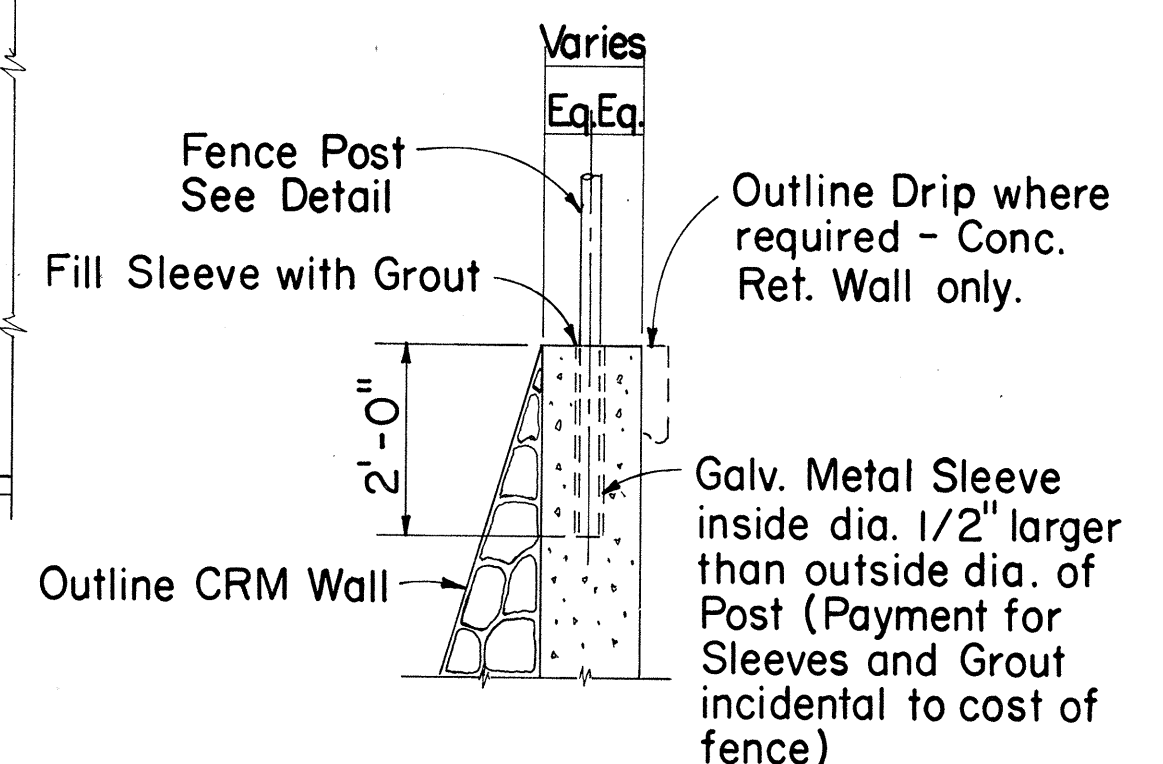
LINE POST

LINE POST

CHAIN LINK FENCE DETAILS

Height of Fence	Minimum Depth of Footing		Minimum Footing Diameter	
	Line Post	Corner, Pull, End and Gate Posts	Line Post	Corner, Pull and End Posts
3'	2'-0"	2'-6"	8"	8"
4'	2'-6"	2'-6"	8"	8"
5'	3'-0"	3'-0"	8"	8"
6'	3'-0"	3'-0"	8"	9"

TYPICAL SECTION (WITH CONCRETE FOOTING)



TYPICAL SECTION (ON CRM & CONC. RET. WALL)

APPROVAL, RECOMMENDED:
HIGHWAY DESIGN ENGINEER 12-4-69 DATE

APPROVED:
ASSISTANT CHIEF, ENGINEERING 10-10-69 DATE

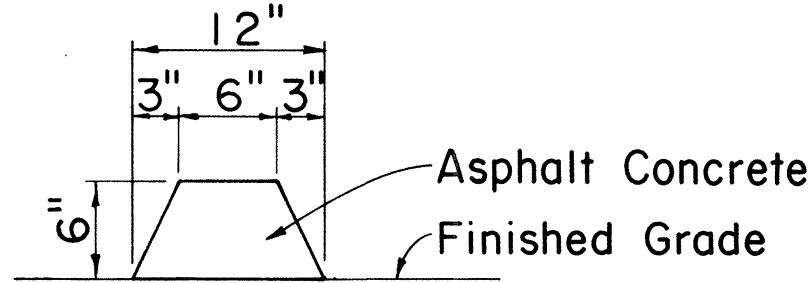
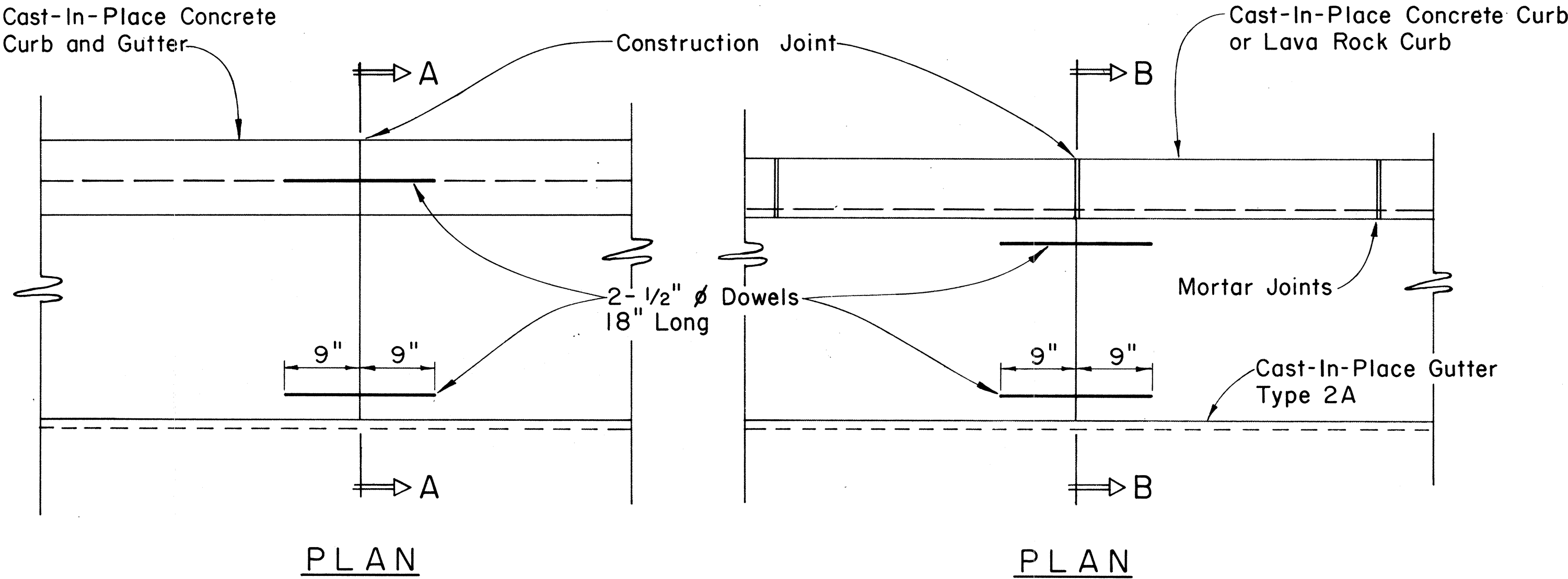
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS
CHAIN LINK FENCE
(WITH TOPRAIL)

Scale: 1/2" = 1'-0" Date: NOV. 15 1978

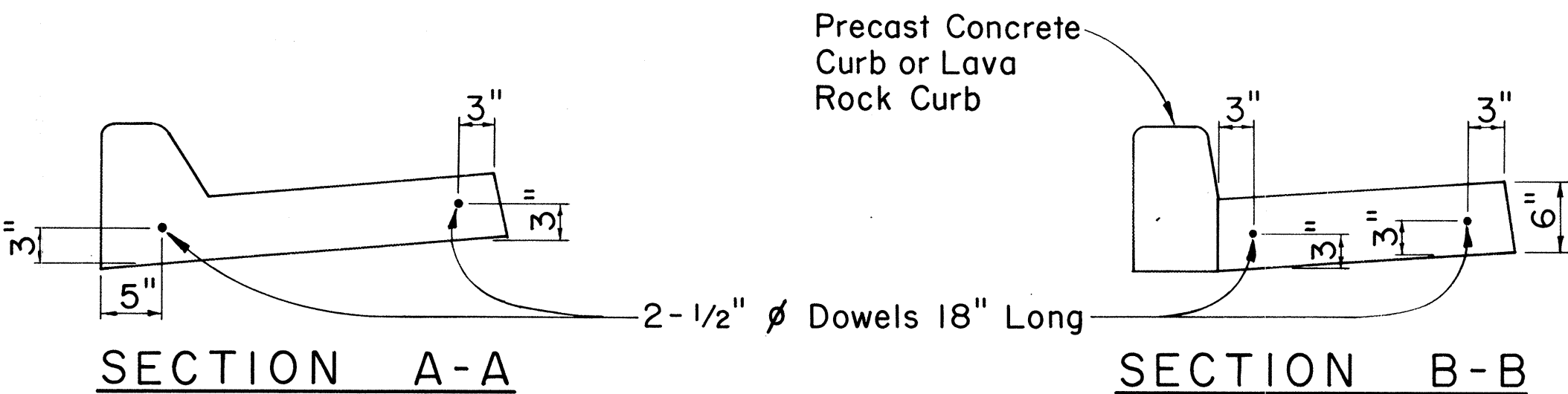
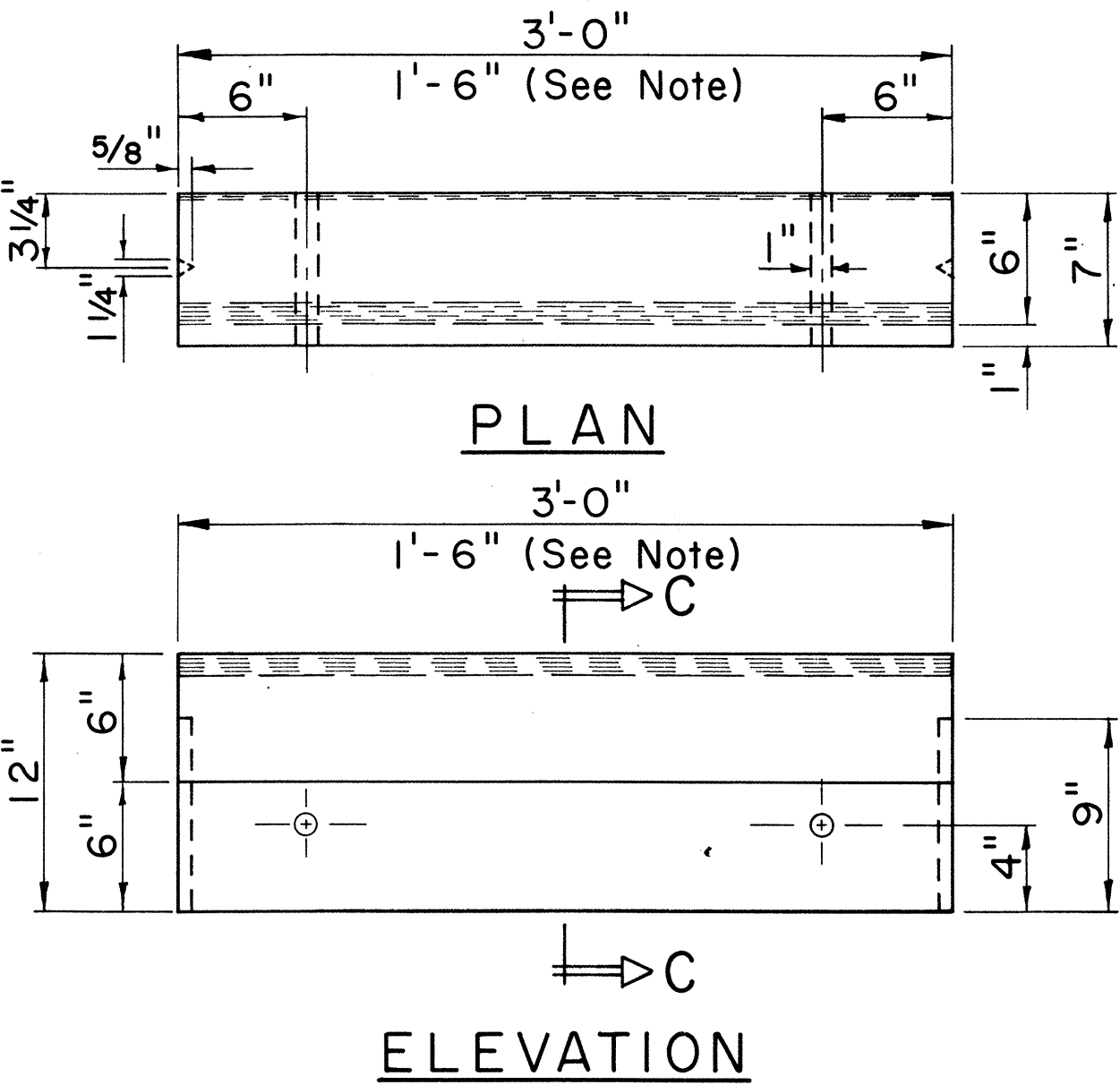
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	12-F-078-1(8)	1978	31	200



CURB, TYPE 6

BITUMINOUS CURB

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

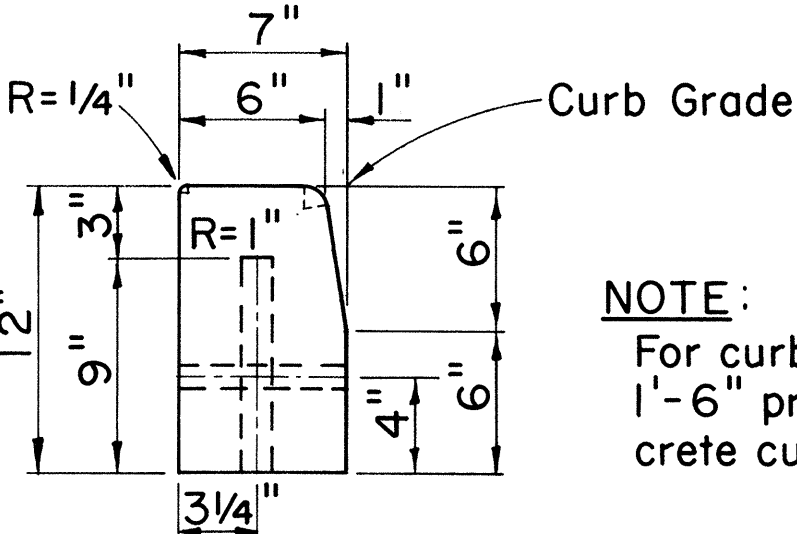


CAST-IN-PLACE CURB & GUTTER

CAST-IN-PLACE GUTTER

CONSTRUCTION JOINT DETAIL

Scale: 1" = 1'-0"



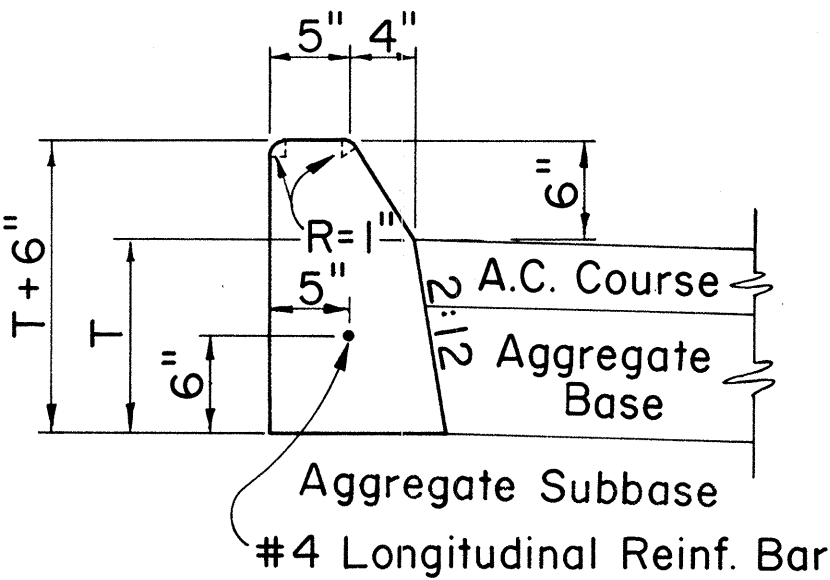
SECTION C-C

CURB, TYPE 3D

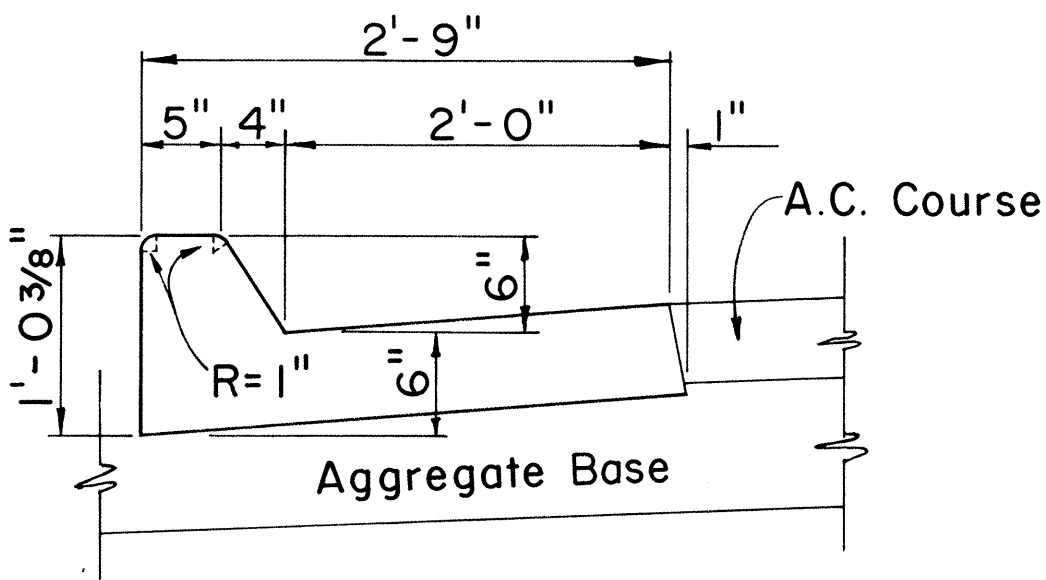
PRE-CAST CONC. CURB

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

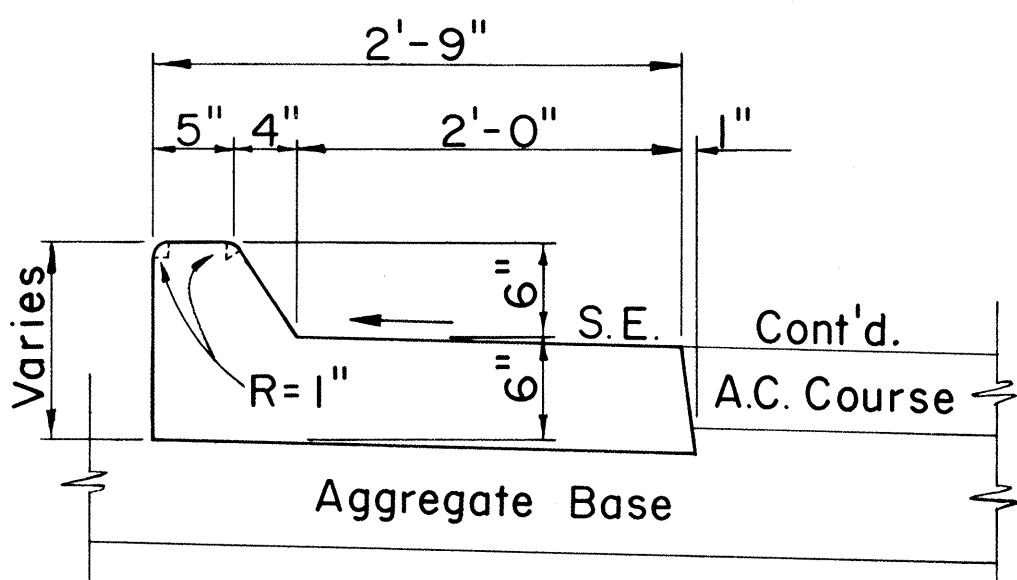
NOTE:
For curb returns use 1'-6" pre-cast concrete curbs.



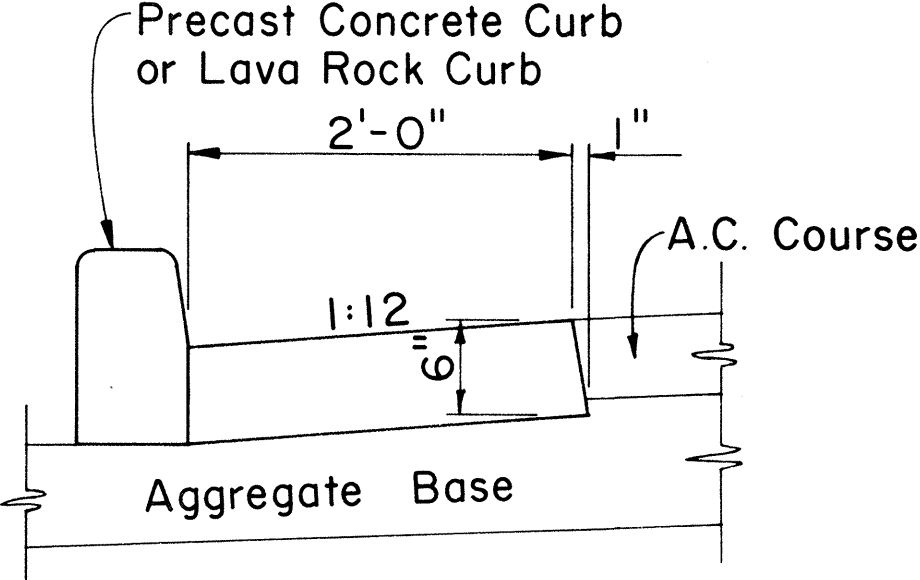
CURB, TYPE 2A



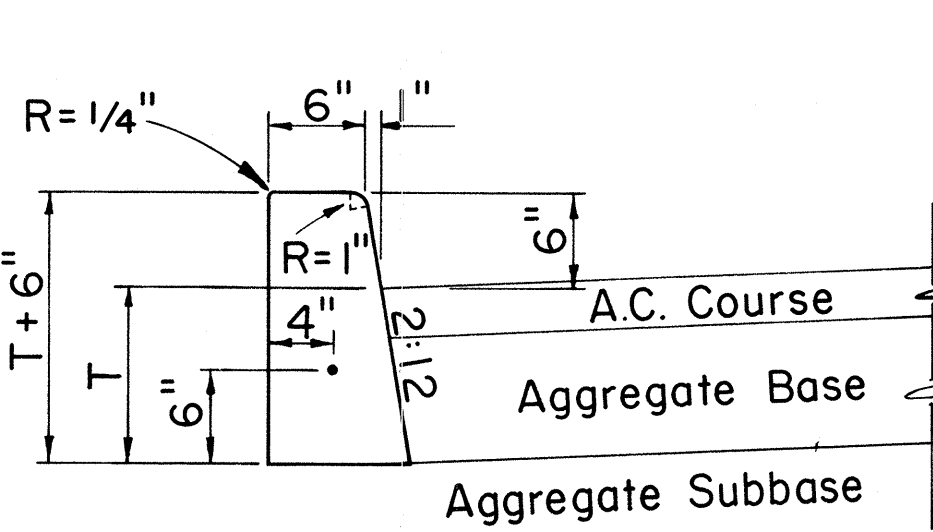
CURB & GUTTER, TYPE 2AG



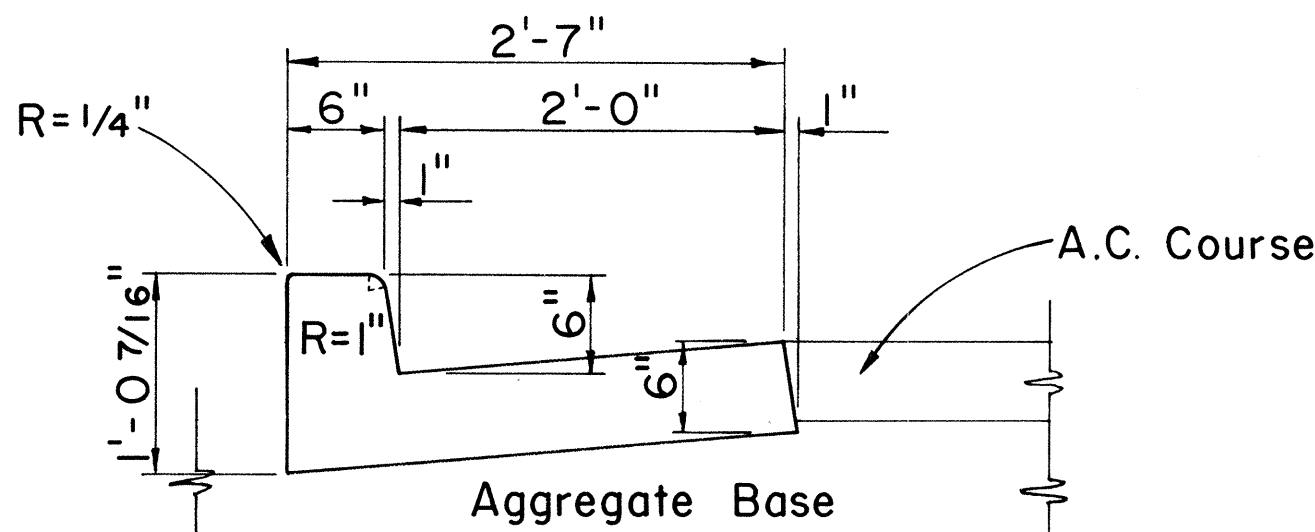
CURB & GUTTER, TYPE 2AGM



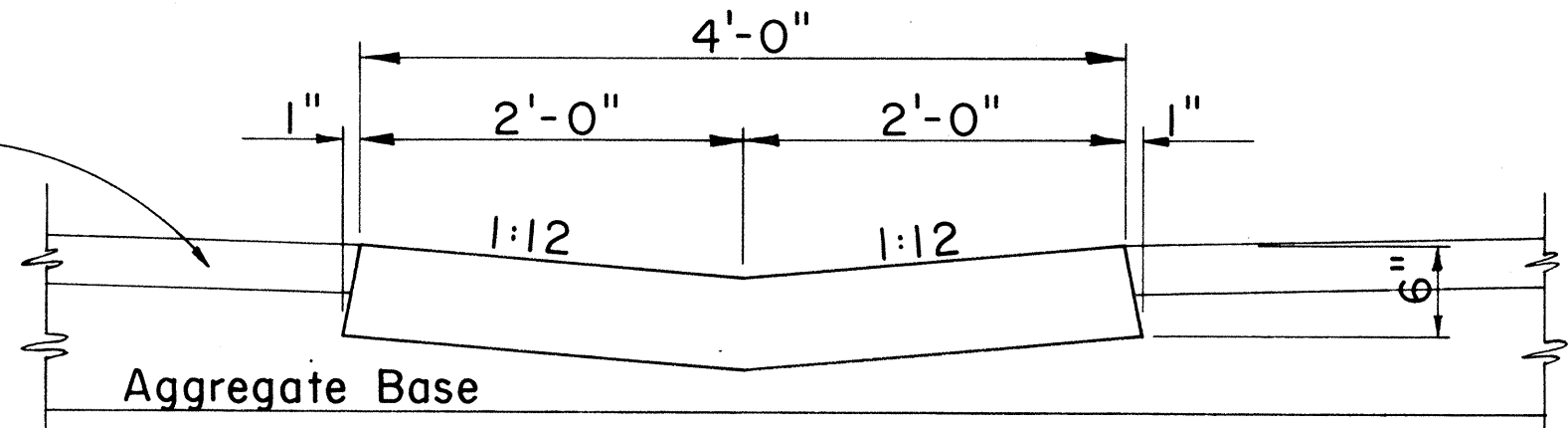
GUTTER, TYPE 2A



CURB, TYPE 2D



CURB & GUTTER, TYPE 2DG



GUTTER, TYPE 2G

CAST-IN-PLACE CONCRETE CURBS AND/OR GUTTERS

Scale: 1" = 1'-0"

APPROVAL RECOMMENDED:
M. Hirozawa 12-4-67
HIGHWAY DESIGN ENGINEER DATE

APPROVED:
Robert S. S. S. 12-10-69
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
STANDARD DETAILS
TYPICAL DETAILS OF CURB
AND/OR GUTTERS

Scale: As Shown
SHEET No. 4 OF 15 SHEETS DD 609.1

Technical drawing of a driveway cross-section showing concrete sidewalk, driveway, curb, gutter, and reinforcement details.

Key dimensions and components:

- Concrete Sidewalk and Driveway:** Shall be poured monolithically. Width: 4'-0".
- Reinforcement:** (*4") Class A Conc. Reinf. with 6"x6"x#6 Wire Mesh. Surface to be Sand Finished.
- Cut Lines:** to be 6" O.C.
- Property Line:** Indicated on the right side.
- Sidewalk:** 4'-0" wide.
- Variable:** Indicated for the driveway width and gutter width.
- Plug:** Located at the ends of the driveway.
- Standard Curb Block or Cast-In-Place Curb and/or Gutter:** 2'-0" wide.
- 2" Galvanized Pipe:** under entire Driveway and extending 6' at both ends where required. Provide Plugs for both ends. (Street Light Cable Conduit for areas with underground utilities.)

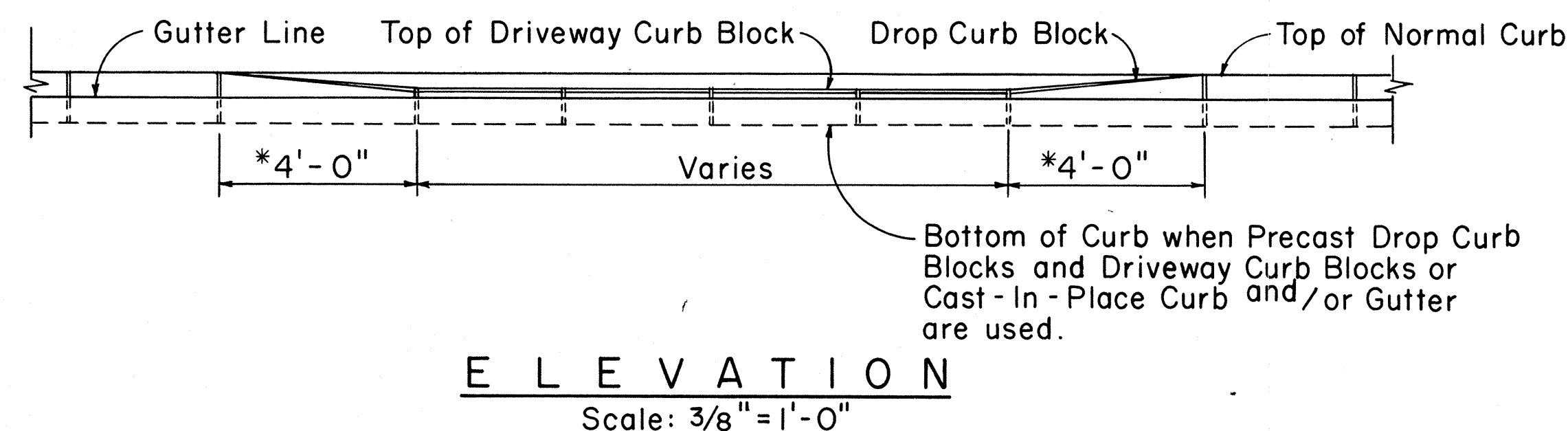
Scale: $\frac{P}{L} \frac{A}{N}$
Scale: $\frac{3}{8}'' = 1'-0''$

Architectural drawing of a window section. The drawing shows a cross-section of a window with a total width of 3'-0". The window is divided into three main sections: a left pane, a central mullion, and a right pane. The left pane is 6" wide, the central mullion is 1 1/4" wide, and the right pane is 6" wide. The window is set into a wall that is 7" thick. The window frame is 5/8" thick. The window is shown with a 1" gap between the frame and the wall. The window is labeled with dimensions and materials: P (Plywood), L (Lumber), A (Aluminum), and N (Neoprene). The scale is given as 1 1/2" = 1'-0".

Dimensions and Materials:

- Overall width: 3'-0"
- Left pane width: 6"
- Mullion width: 1 1/4"
- Right pane width: 6"
- Window frame thickness: 5/8"
- Wall thickness: 7"
- Gap between frame and wall: 1"
- Materials: P, L, A, N
- Scale: 1 1/2" = 1'-0"

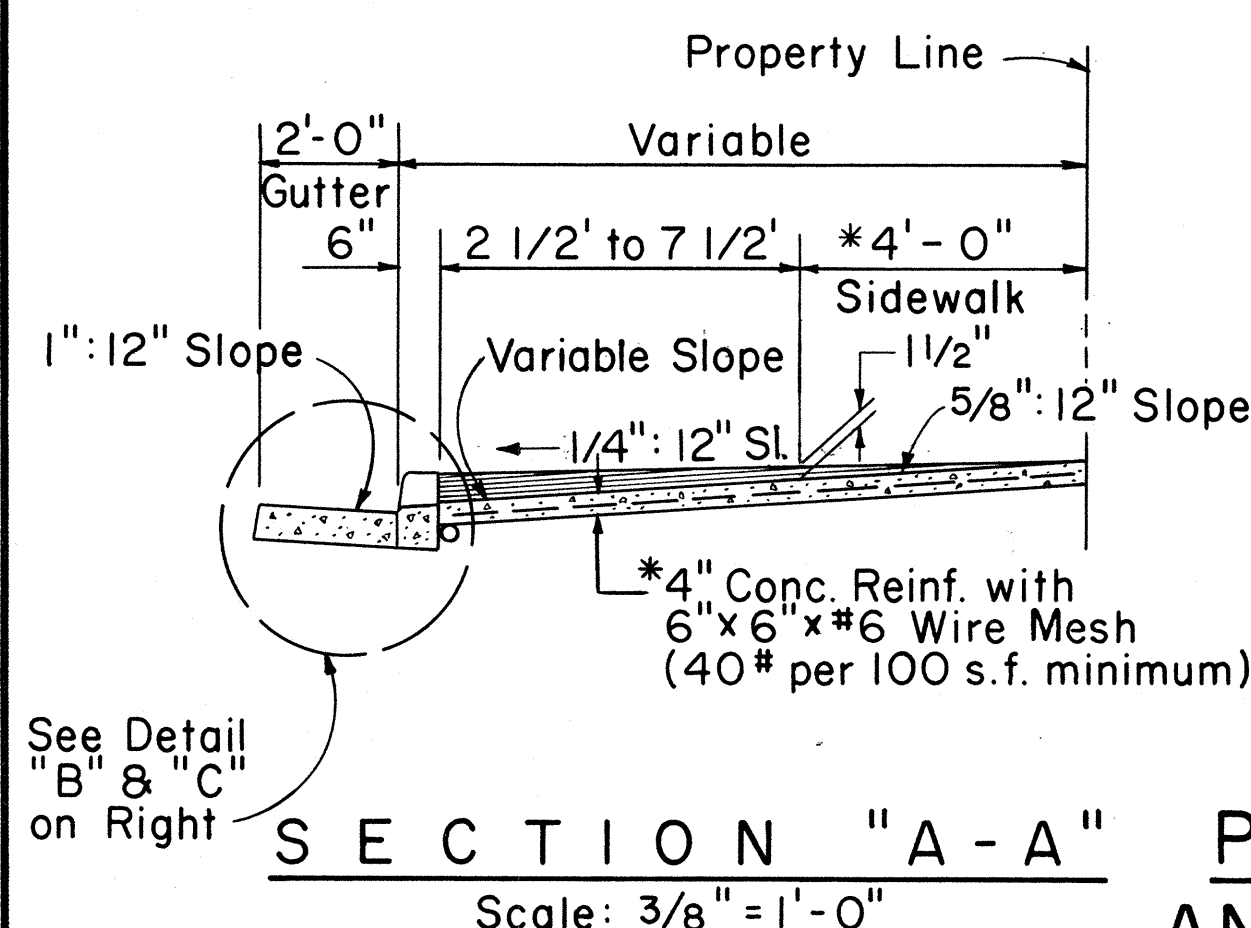
E L E V A T I O N
Scale: $1\frac{1}{2}" = 1' - 0"$



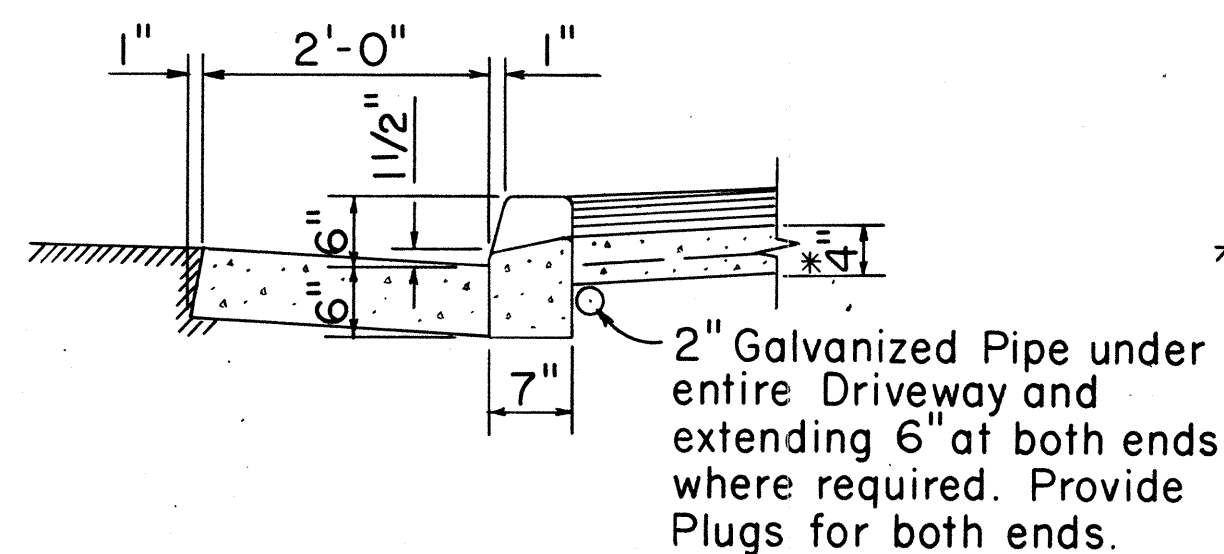
E L E V A T I O N

Scale: $1\frac{1}{2}" = 1'-0"$

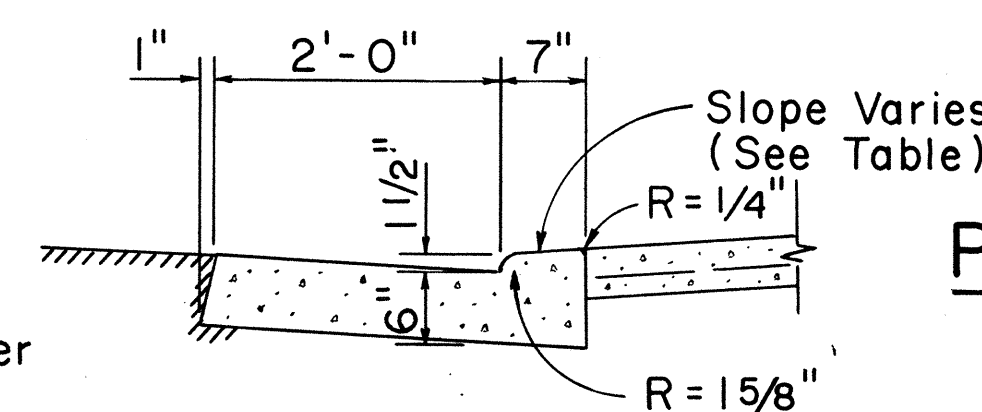
SECTION "E - E"
Scale: $1\frac{1}{2}" = 1'-0"$



DETAIL "B"
Scale: $\frac{3}{4}" = 1'-0"$



DETAIL "C"
Scale: 3/4" = 1'-0"



PRE-CAST CONC. DROP CURB BLOCK

PRE-CAST CONC. DRIVEWAY CURB

APPROVAL RECOMMENDED:
Mr. J. J. J. J. 12-4-69
HIGHWAY DESIGN ENGINEER DATE

APPROVED:
Arthur J. J. J. 12-10-69
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
STANDARD DETAILS
TYPICAL DETAILS OF
REINF. CONC. DROP DRIVEWAY

Scale: As Shown

SHEET No. 5 OF 15 SHEETS DD 610.1

NOTE:

1. *Use dimension shown unless otherwise noted on the plans.

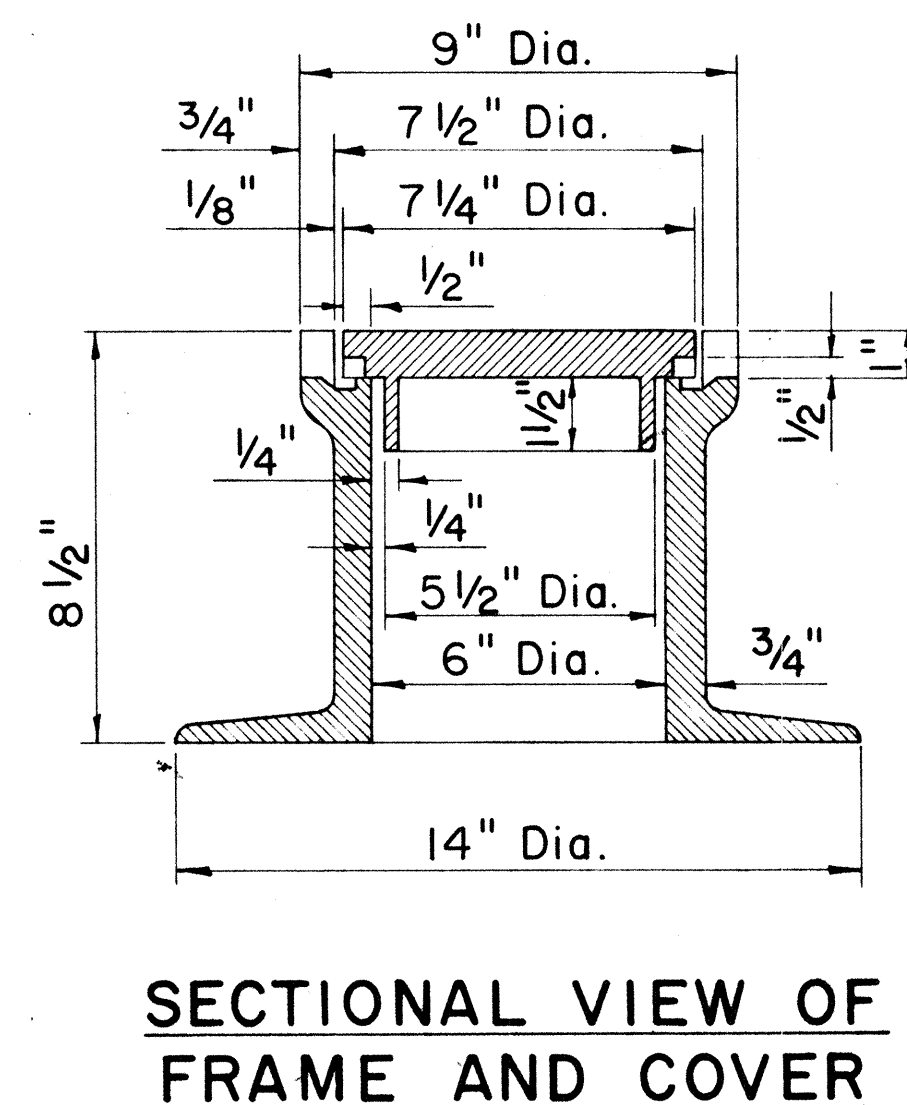
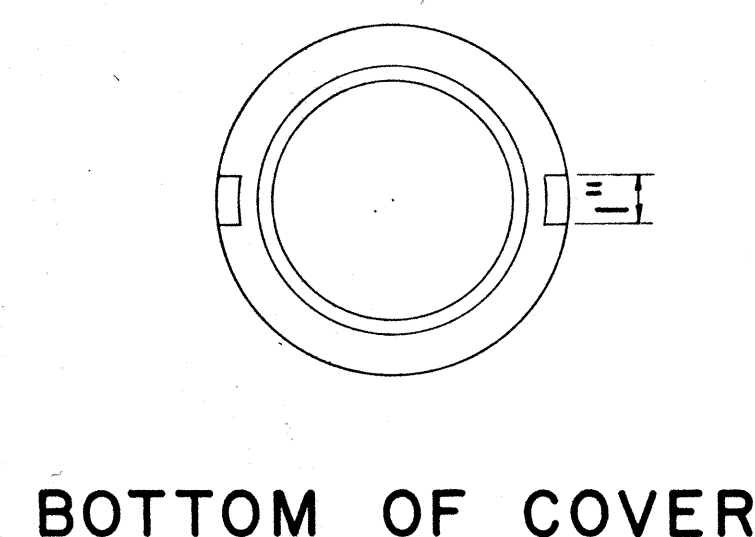
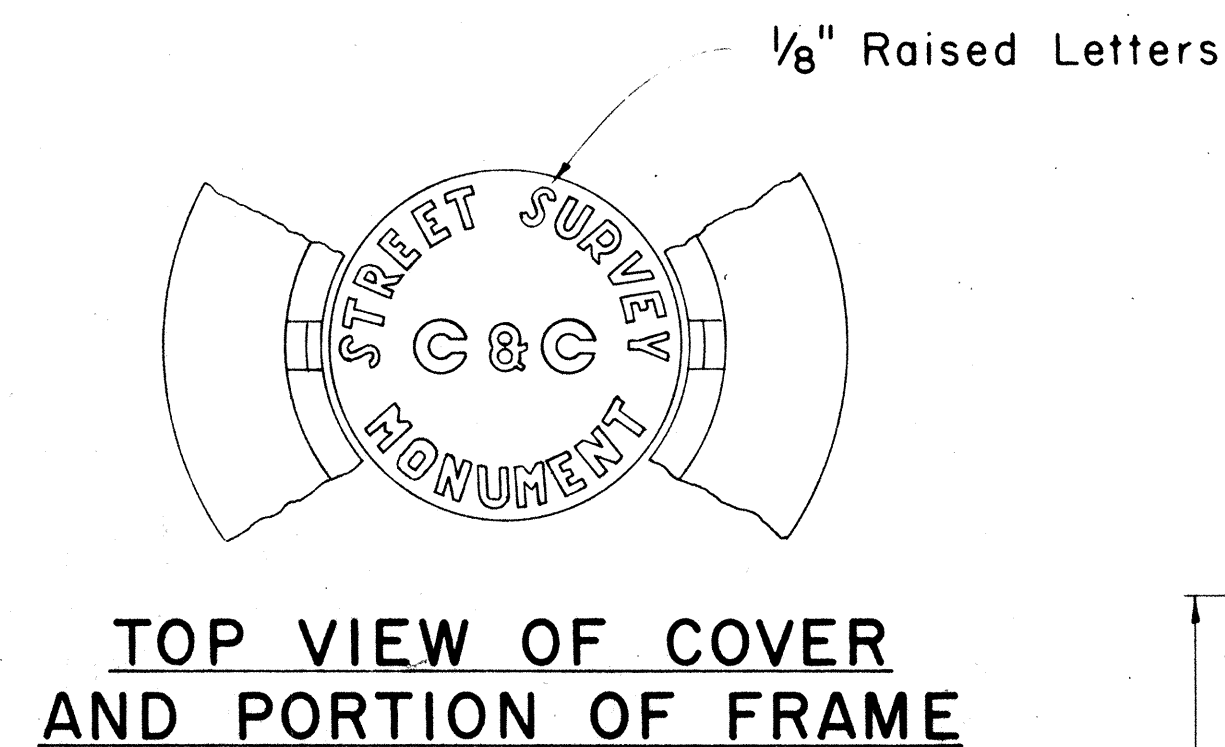
TYPICAL DETAILS OF
REINF. CONC. DROP DRIVEWAY

Scale: As Noted

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-078-110	1978	33	266

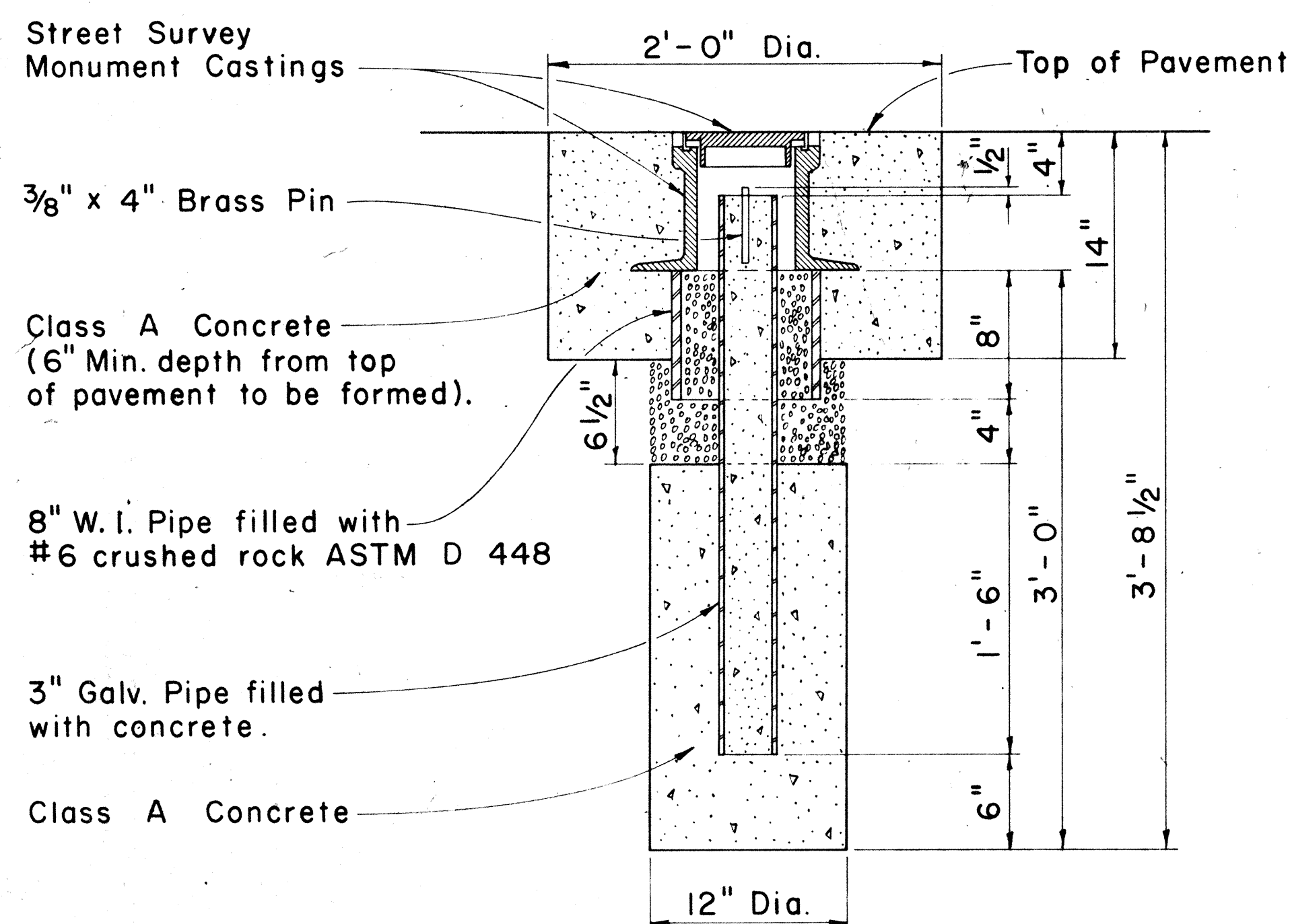
NOTES:

- CONTRACTOR TO FURNISH MATERIAL AND LABOR TO EXTEND PIPE UP THROUGH FILL.
- ALL VERTICAL PIPES OF SETTLEMENT PLATFORMS SHALL BE ACCURATELY AND CONSECUTIVELY NUMBERED IN ONE FOOT INTERVALS MEASURED FROM THE BOTTOM OF THE SETTLEMENT PLATFORM BASE. THE NUMBERING AND GRADUATIONS SHALL BE MARKED ON THE VERTICAL PIPE USING FILE CUTS AND DURABLE YELLOW PAINT BY THE CONTRACTOR, UNDER THE SUPERVISION OF THE ENGINEER, IMMEDIATELY AFTER EACH SECTION OF PIPE IS ADDED.



STREET SURVEY MONUMENT CASTINGS

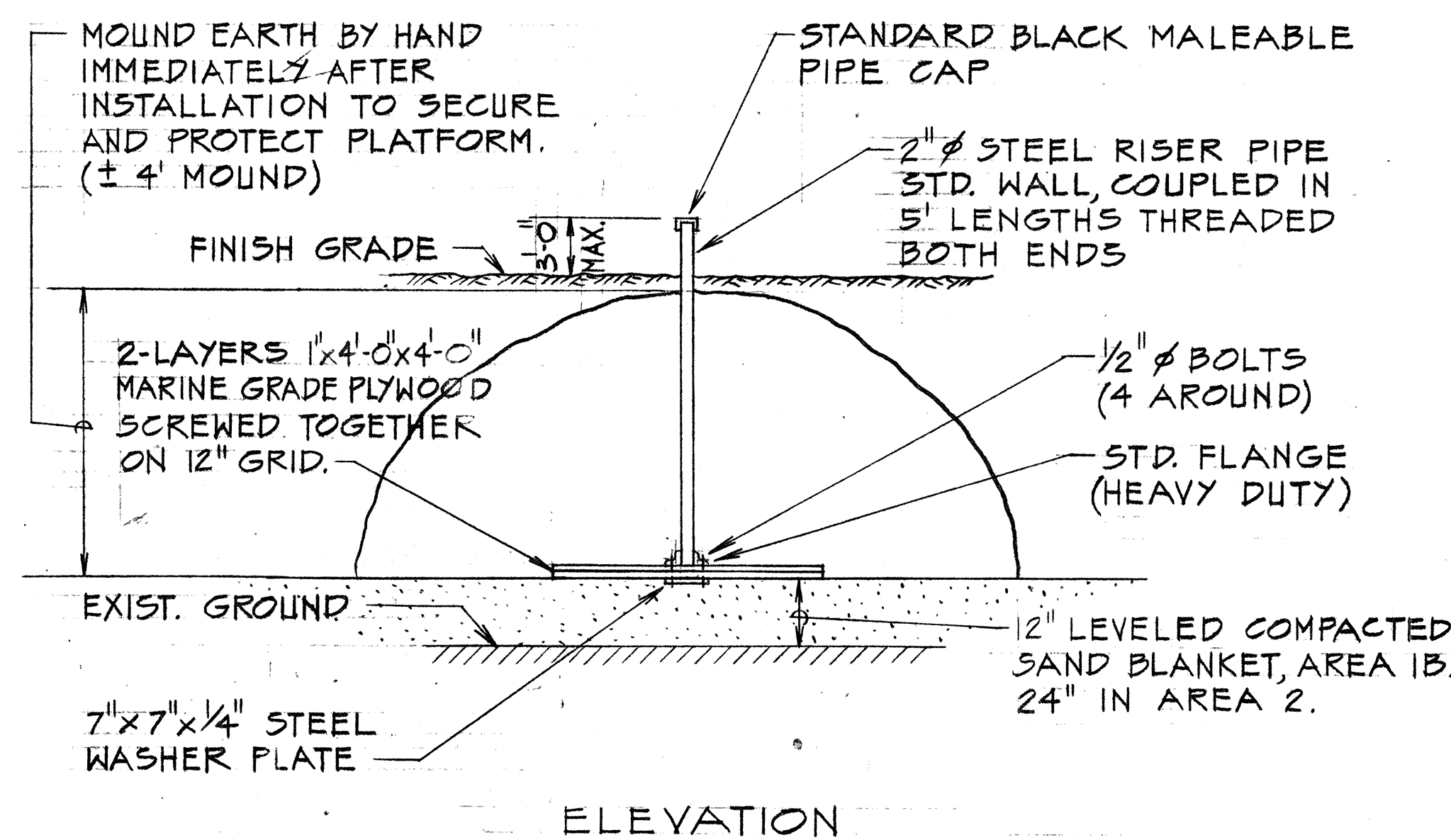
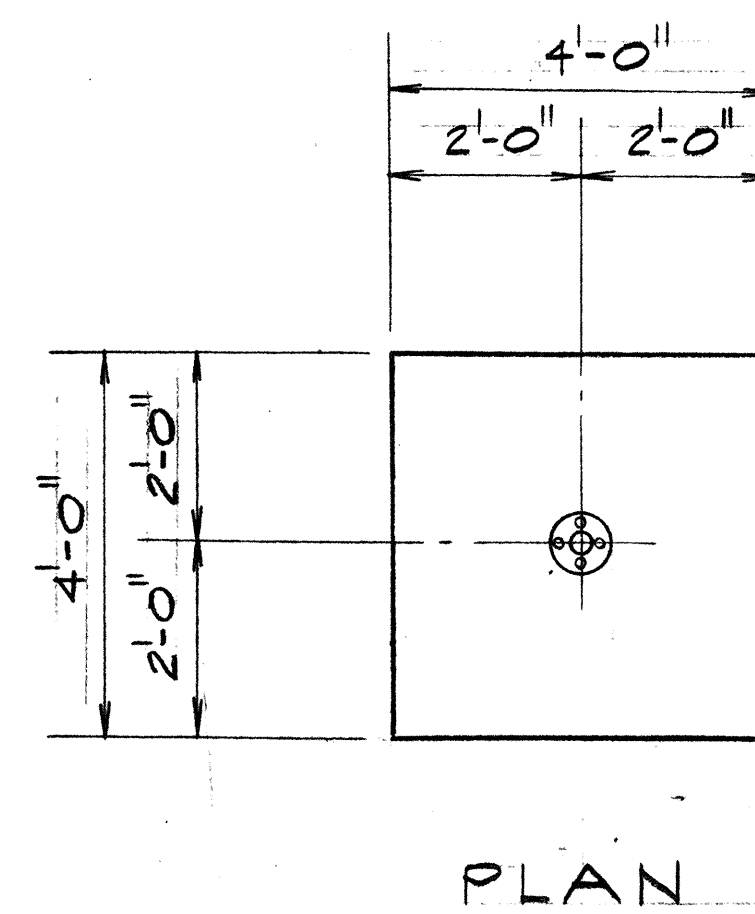
Scale: 3" = 1'-0"



NOTE: Where the excavation extends into solid rock the depth may be decreased if approved by the Engineer.

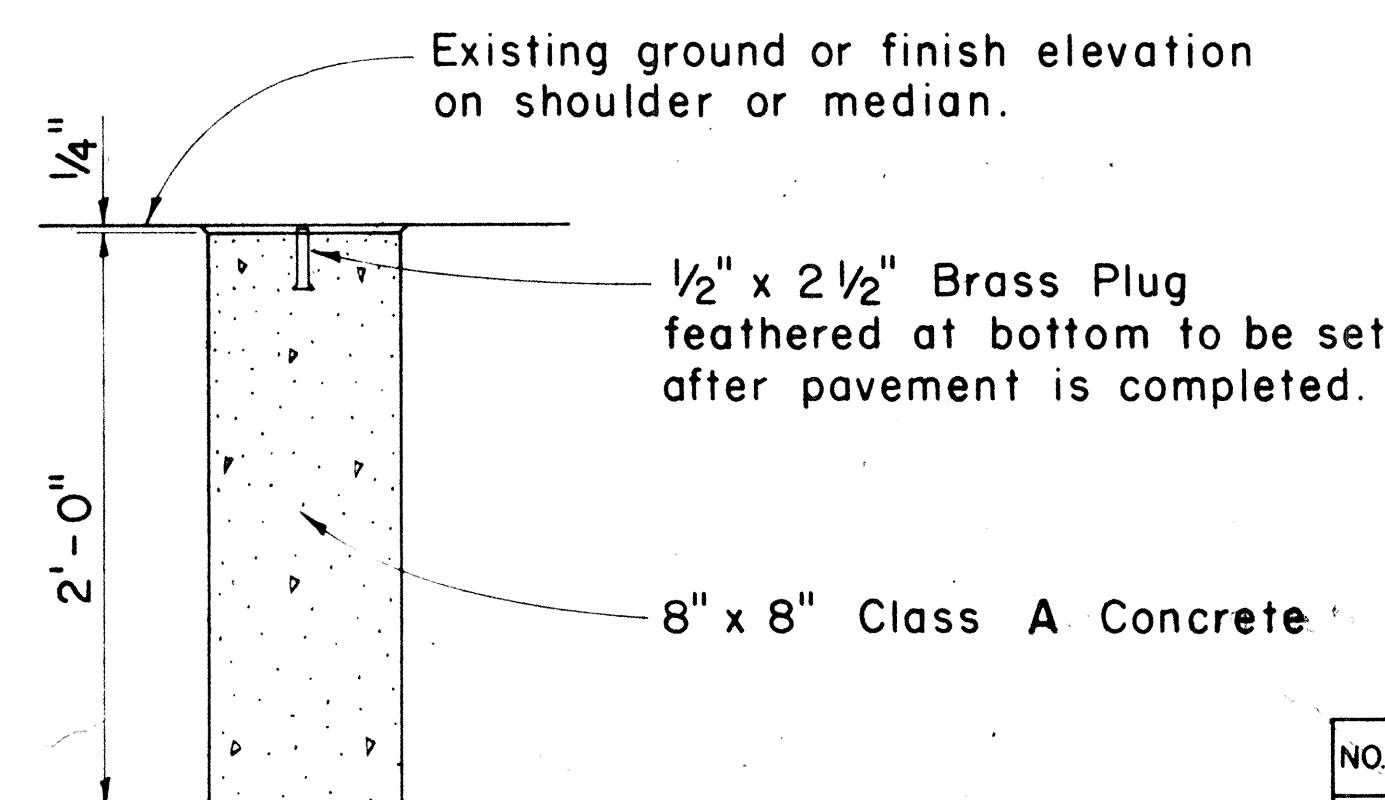
STREET SURVEY MONUMENT

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



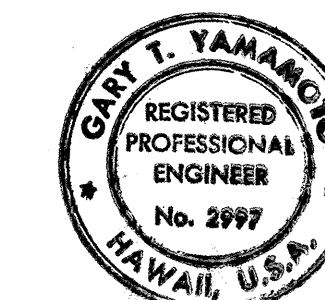
SETTLEMENT PLATFORM DETAIL

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



DETAIL FOR AND REFERENCE SURVEY MONUMENT

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



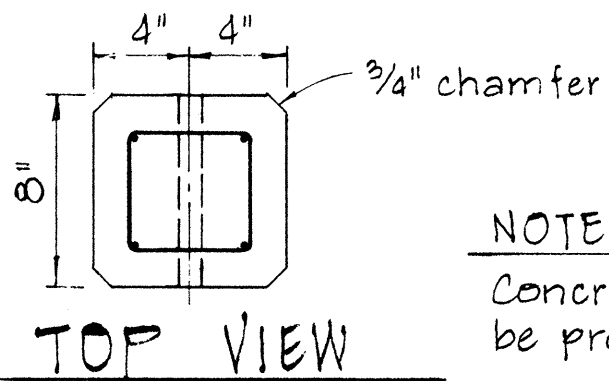
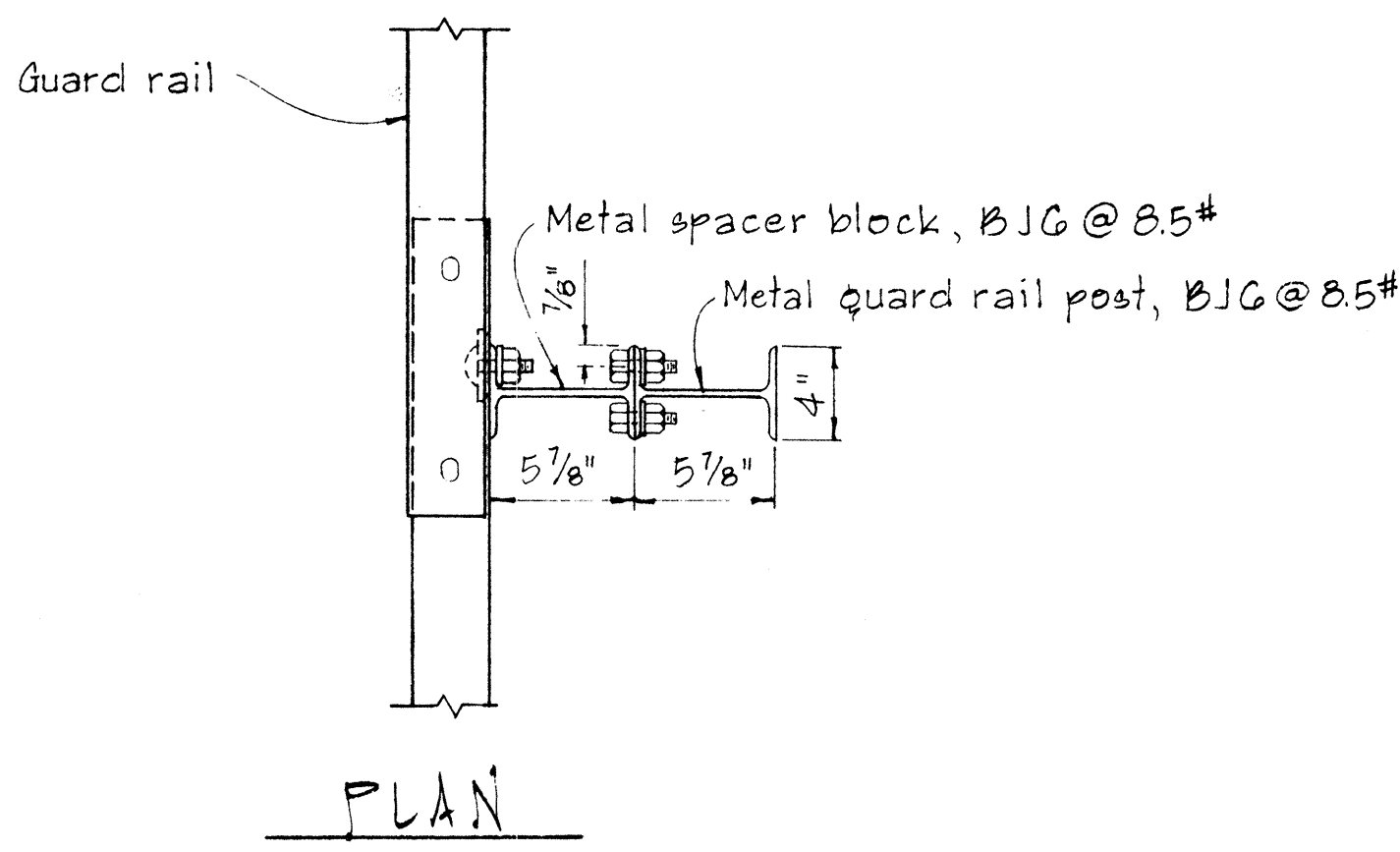
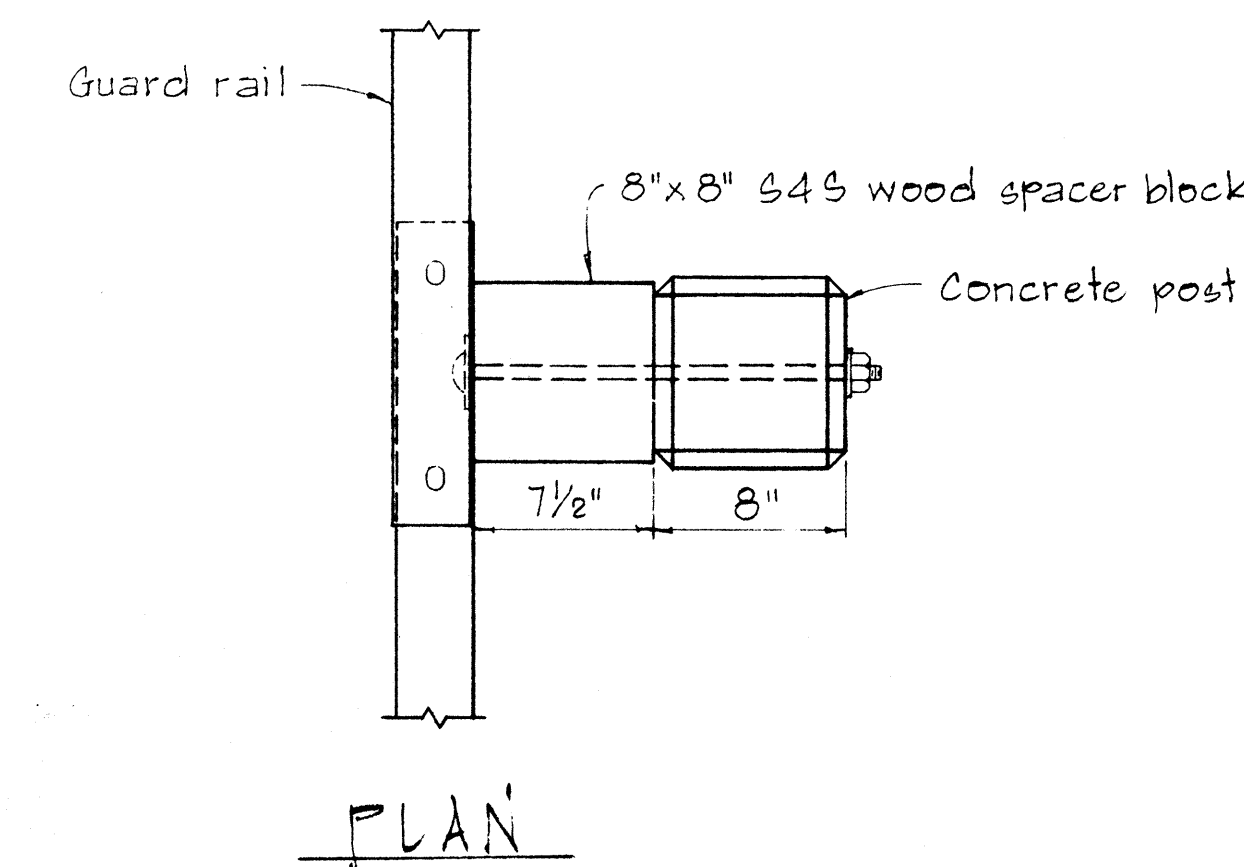
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

NO.	REVISION	APPROVED BY	DATE

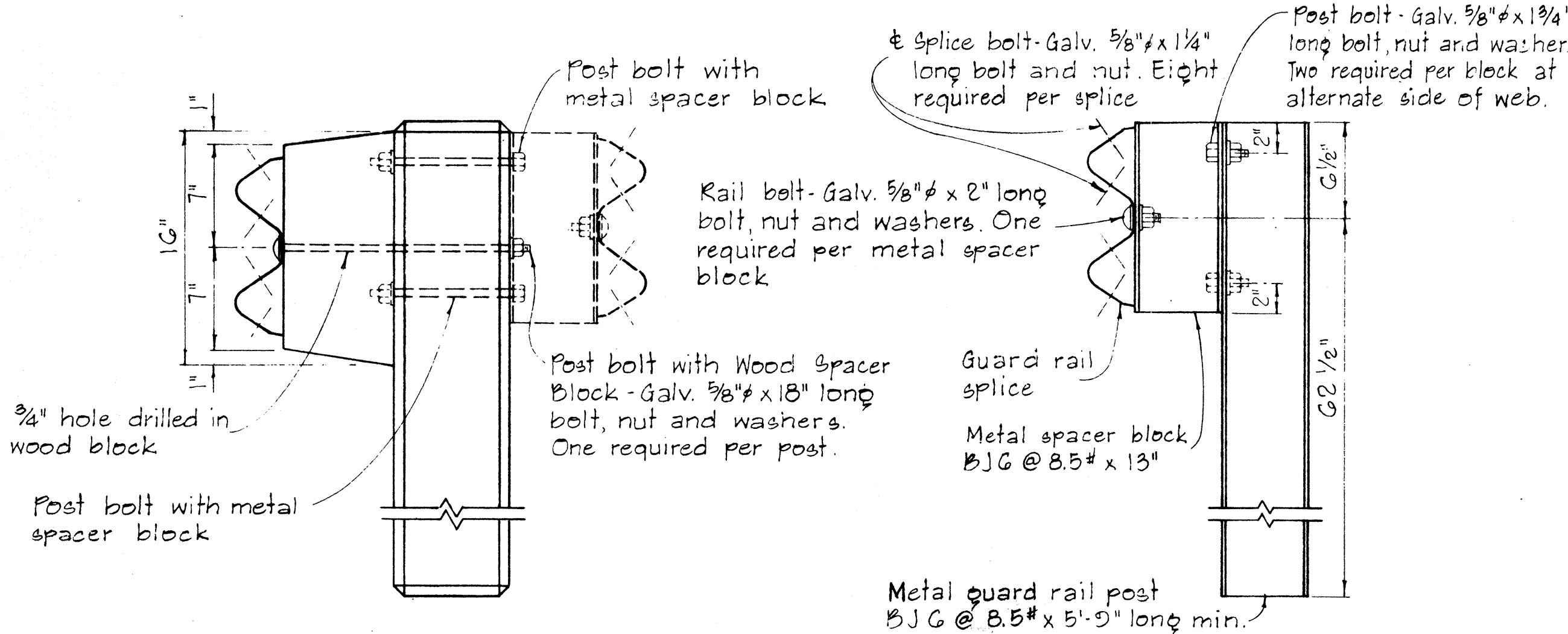
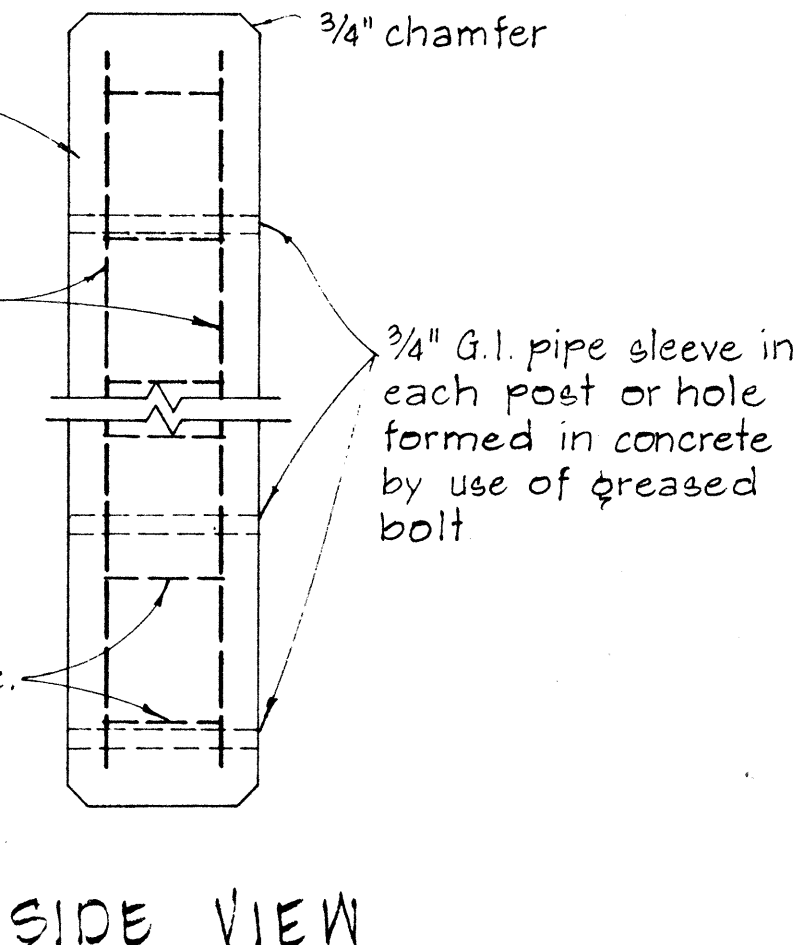
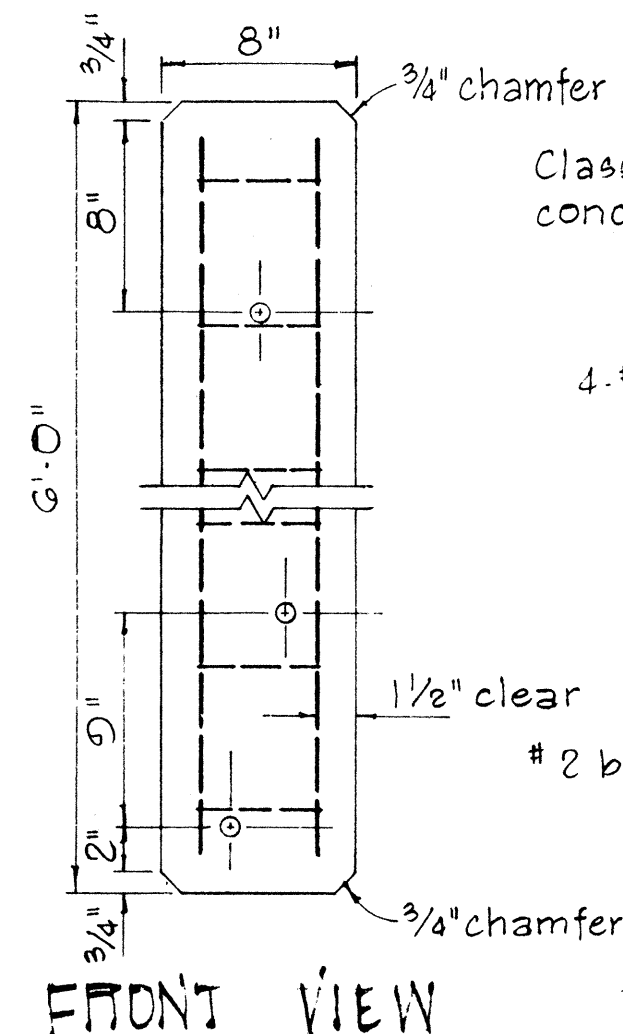
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
STANDARD DETAILS CENTERLINE, REFERENCE SURVEY AND C & C STREET SURVEY MONUMENTS & SETTLEMENT PLATFORM DETAILS	
Scale: As Shown	

SHEET No. OF SHEETS DD 613.1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-078-1(8)	1978	34	266

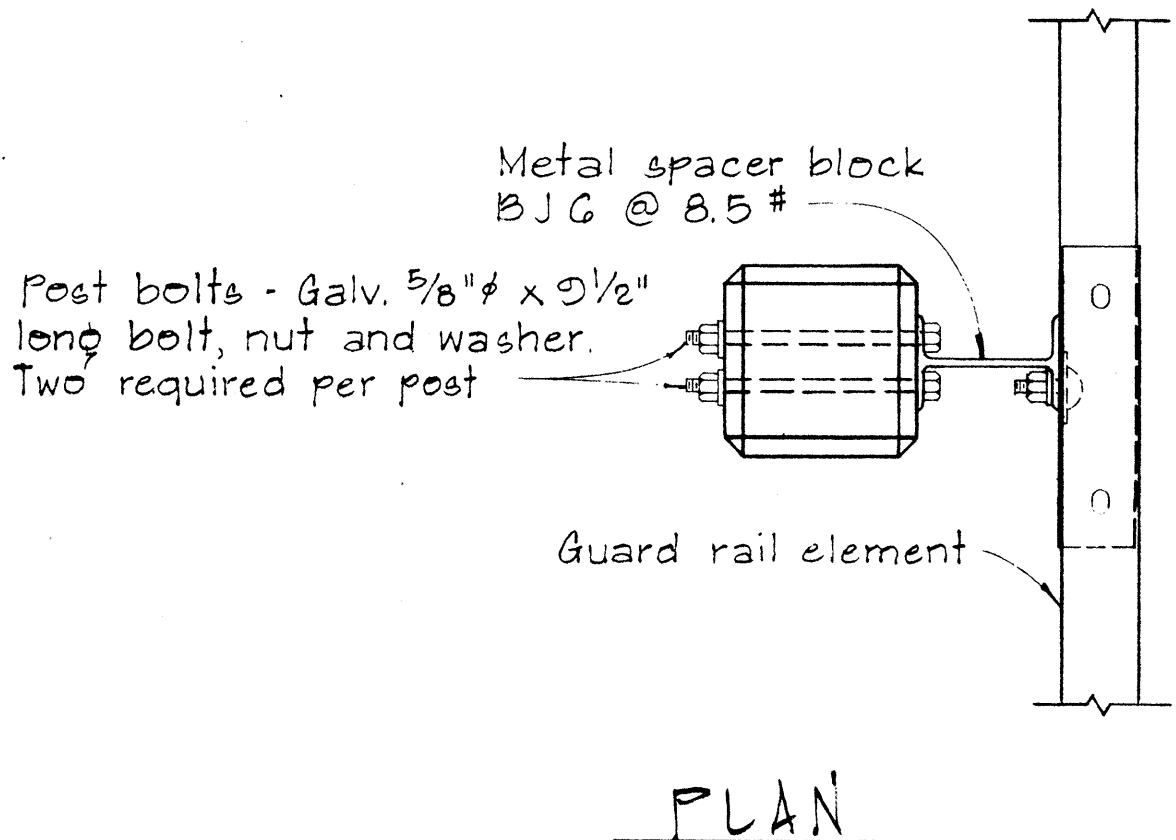


NOTE:
Concrete post shall be precast

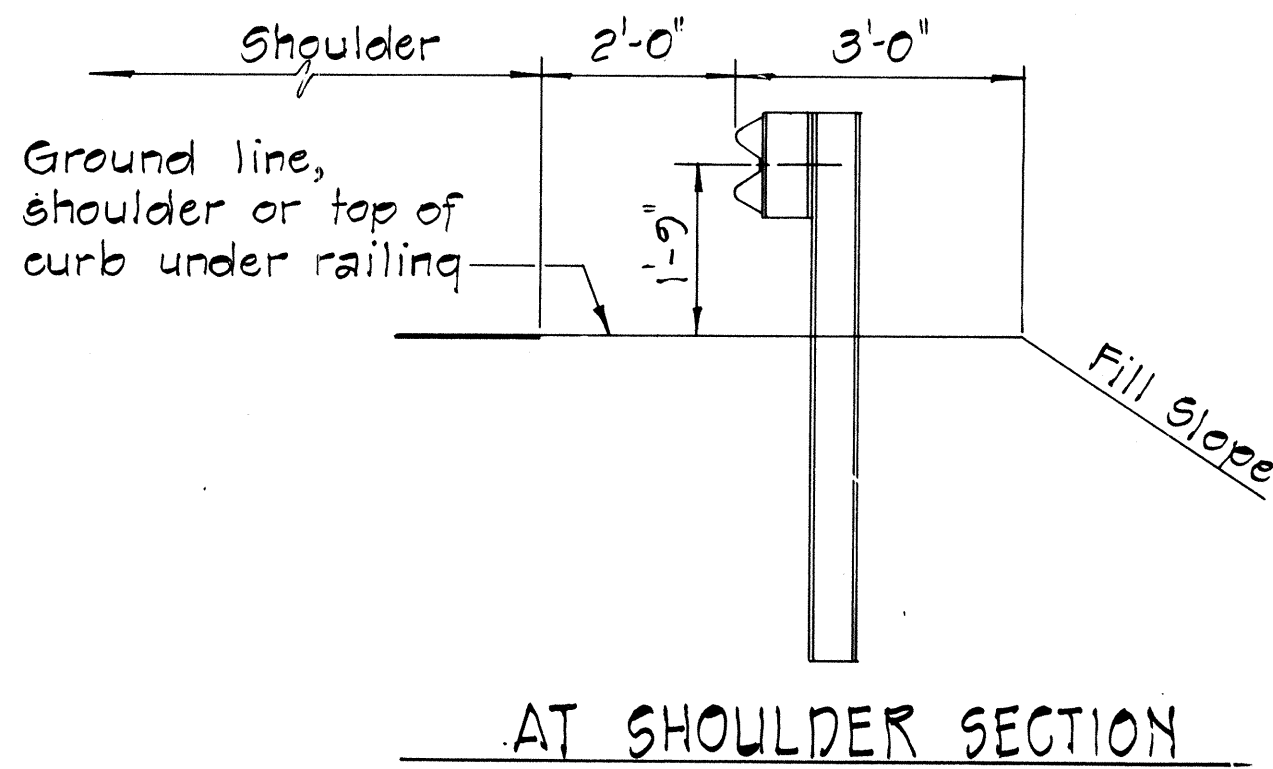


SINGLE METAL GUARD RAIL ON METAL POST WITH METAL SPACER BLOCK
SCALE: 1 1/2" = 1'-0"

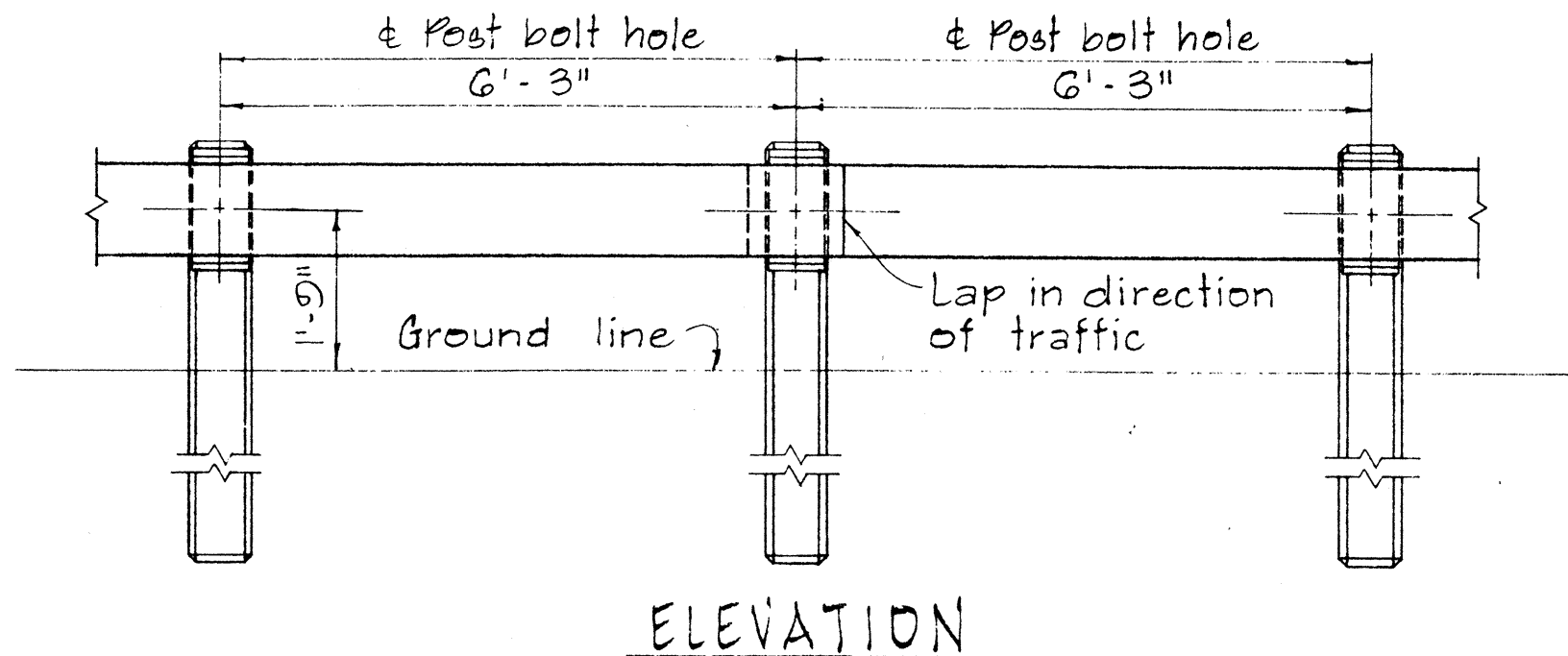
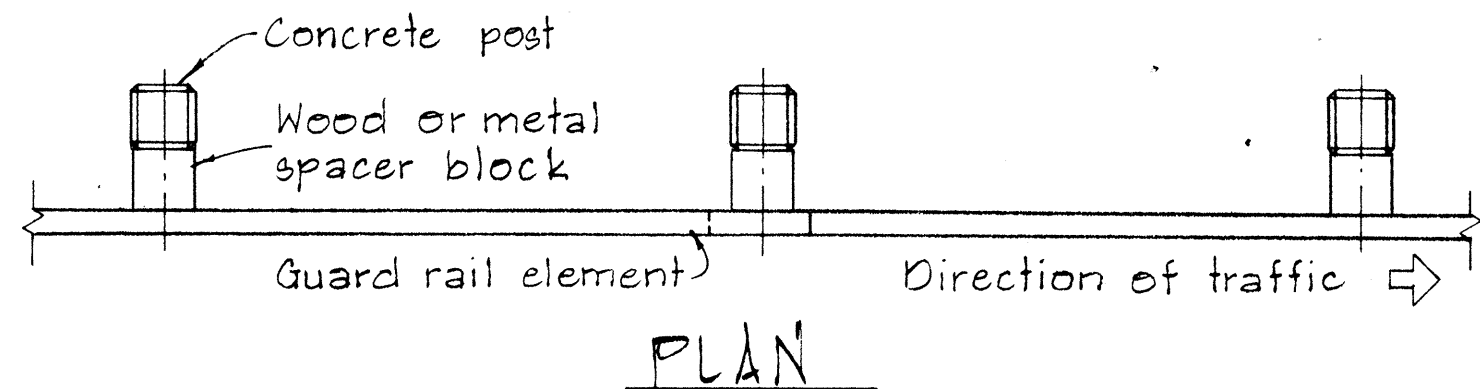
DETAIL OF CONCRETE POST
SCALE: 1 1/2" = 1'-0"



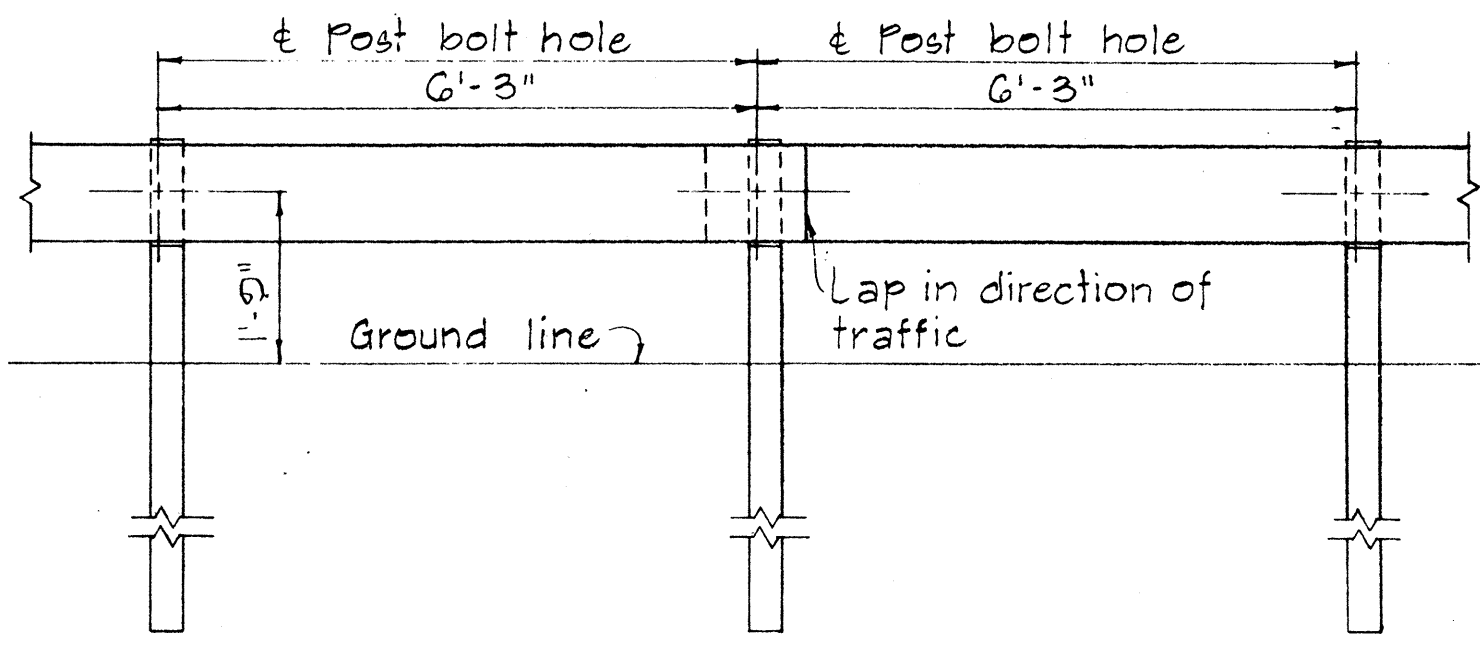
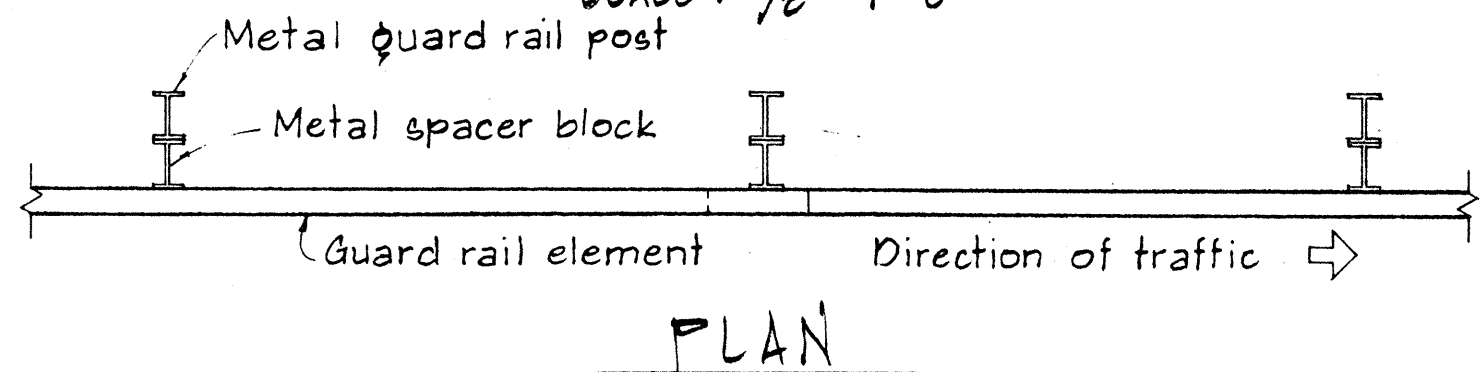
SINGLE METAL GUARD RAIL ON PRECAST CONCRETE POST WITH WOOD OR METAL SPACER BLOCK
SCALE: 1 1/2" = 1'-0"



TYPICAL METAL GUARD RAIL DETAIL
SCALE: 1/2" = 1'-0"



METAL GUARD RAIL ON CONCRETE POST WITH WOOD OR METAL SPACER BLOCK
SCALE: 1/2" = 1'-0"



METAL GUARD RAIL ON METAL POST WITH METAL SPACER BLOCK
SCALE: 1/2" = 1'-0"

NO.	REVISION	APPROVED BY	DATE

APPROVAL RECOMMENDED:
Erich Tanaka
TRAFFIC ENGINEER
12/29/69
DATE

APPROVED:
Hubert J. Seid
ASSISTANT CHIEF, ENGINEERING
12-30-69
DATE

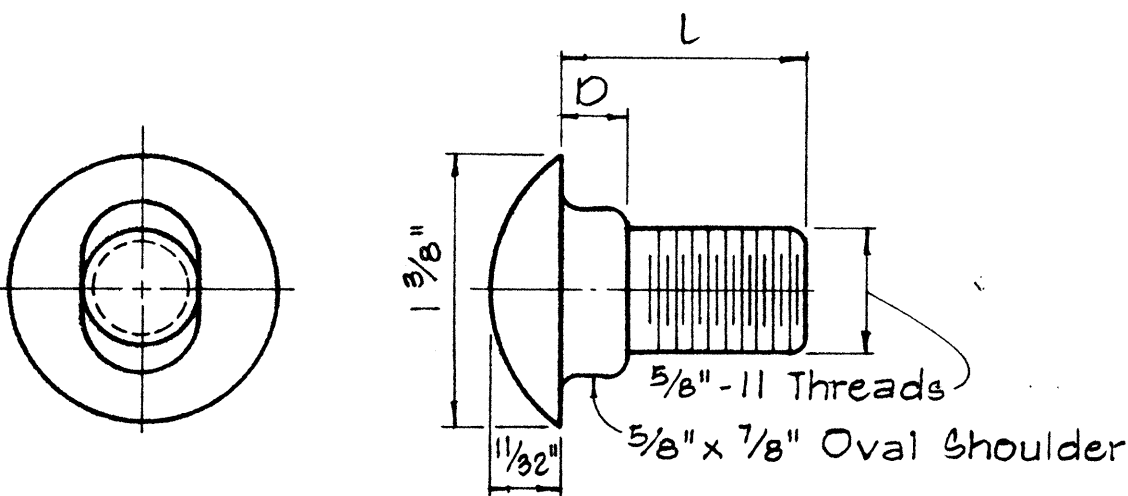
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS
METAL GUARD RAIL
SCALE: AS SHOWN
NOV. 1968

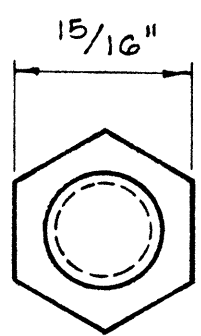
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-078 (10)	1978	35	266

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"

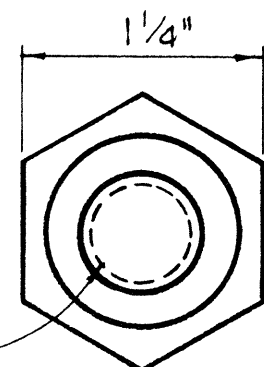
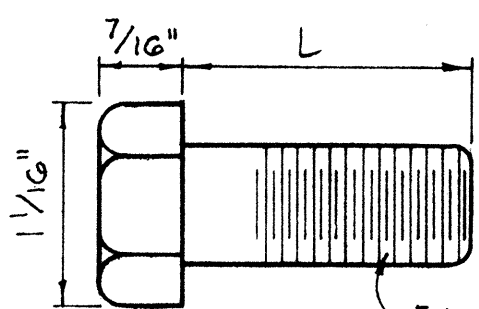
BOLT DIMENSIONS		
TYPE B BOLT		
		L
Post Bolt for Conc. Post w/ Metal Blocks		5 1/2"
Post Bolt for Metal Post w/ Metal Block		1 3/4"



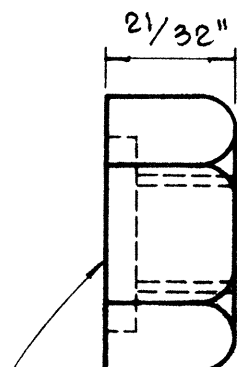
TYPE A BOLT



TYPE B BOLT

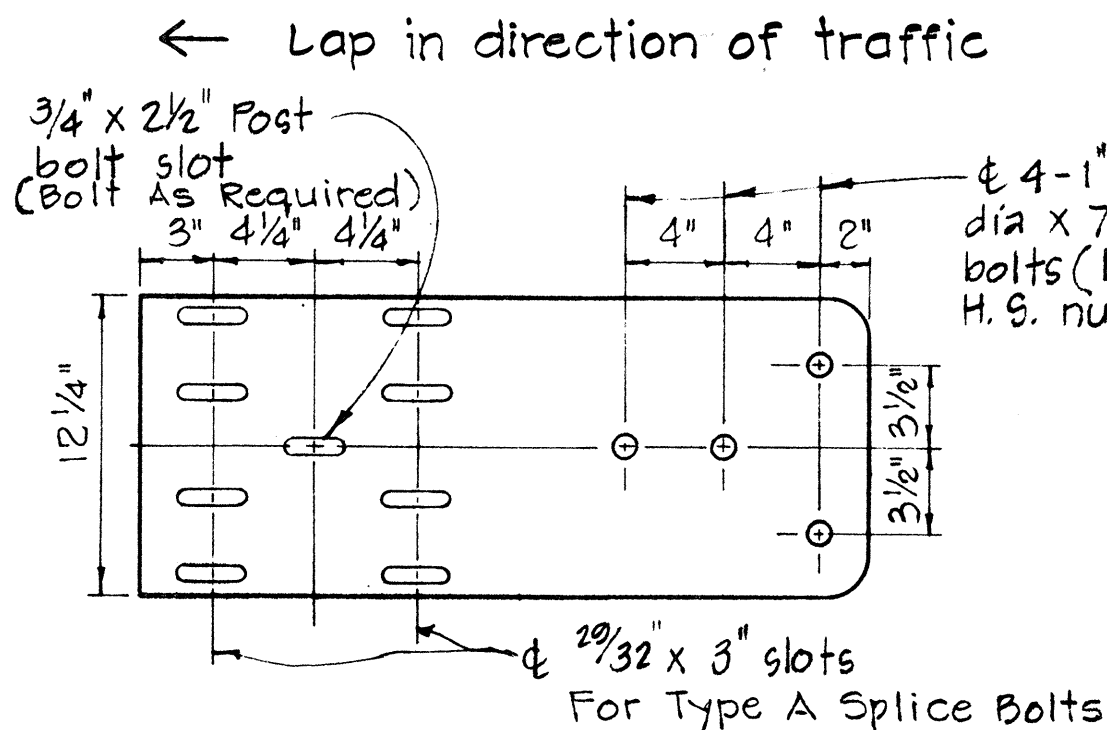
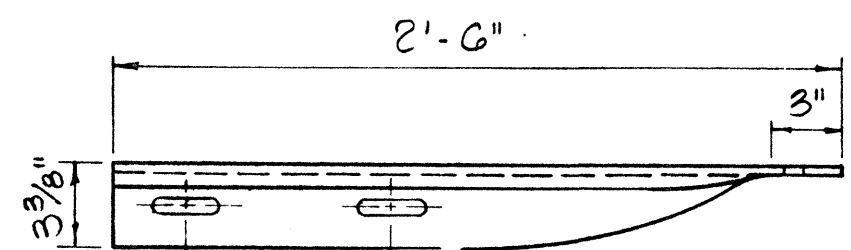


HEXAGON NUT



5/32" Deep x 1 5/16" Dia. C' Bore for Type A Bolt only. Plain nut for Type B Bolt.

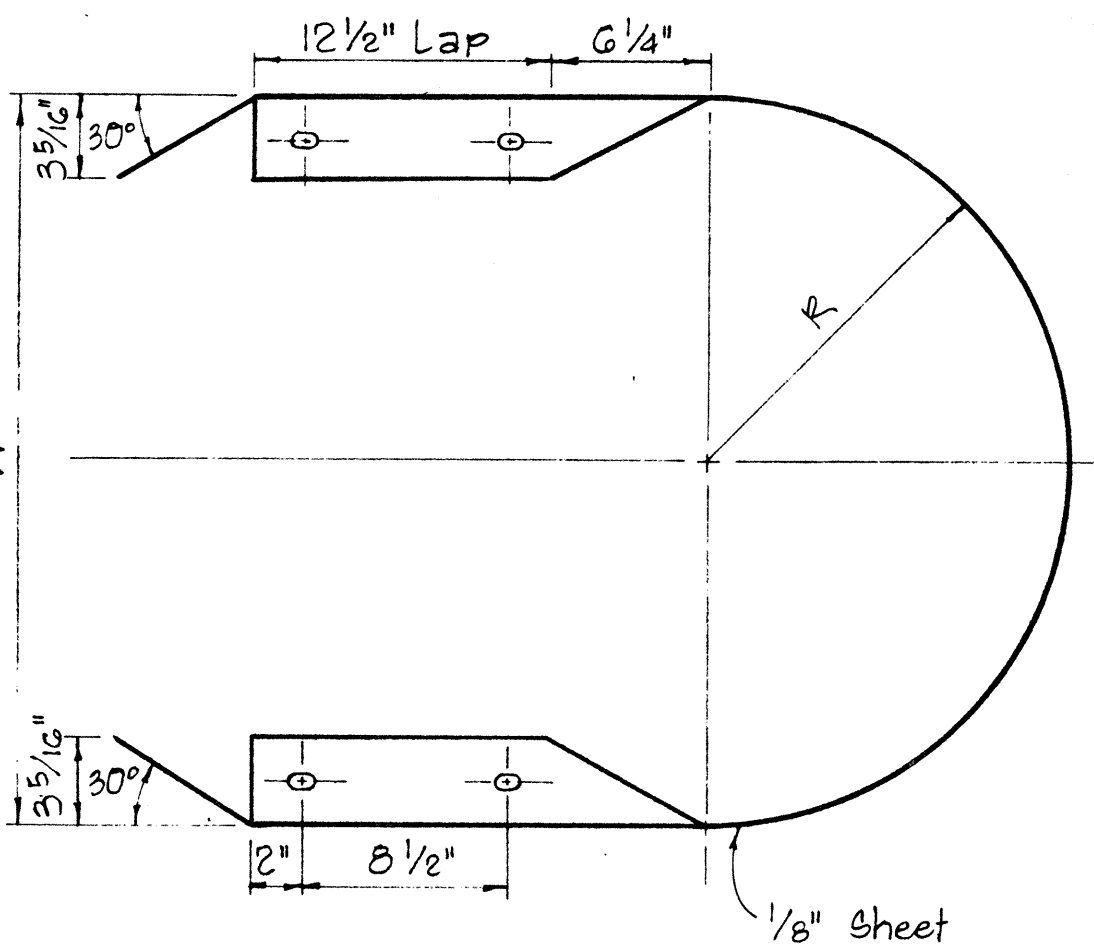
Scale: Full Size



SPECIAL END SHOE

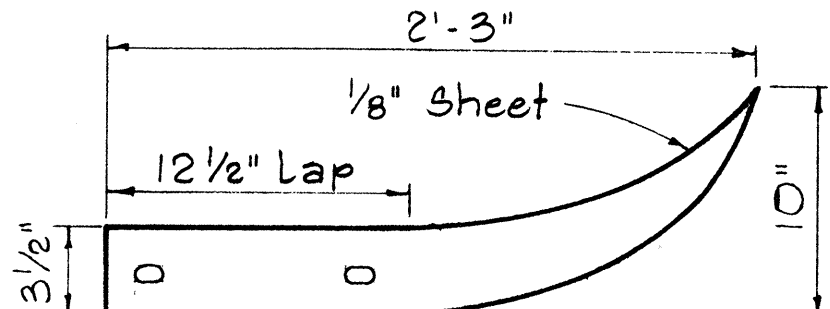
Scale: 1 1/2" = 1'-0"

Lap in direction of traffic

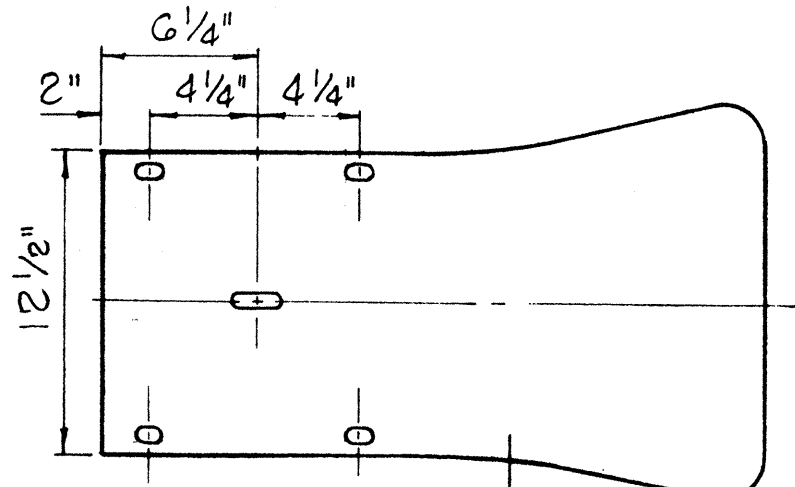


MEDIAN END

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



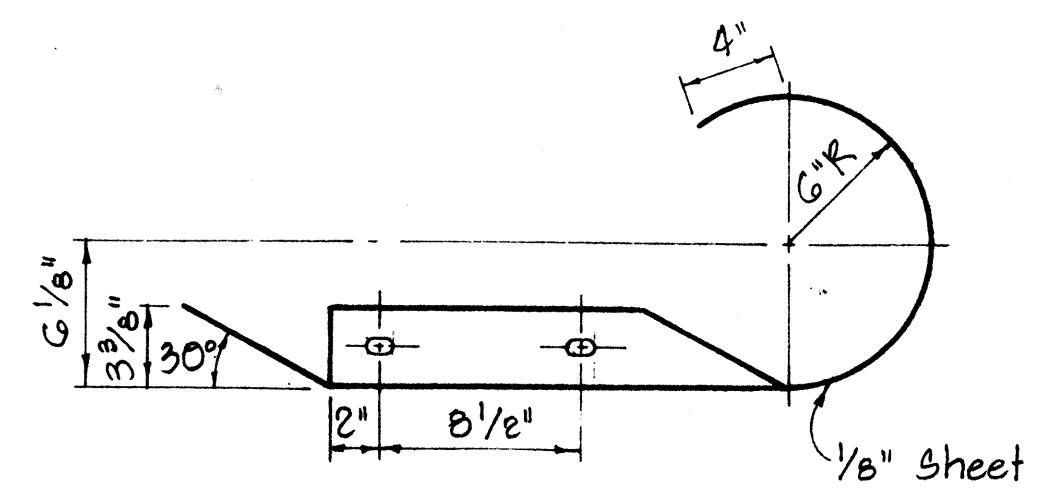
Lap in direction of traffic



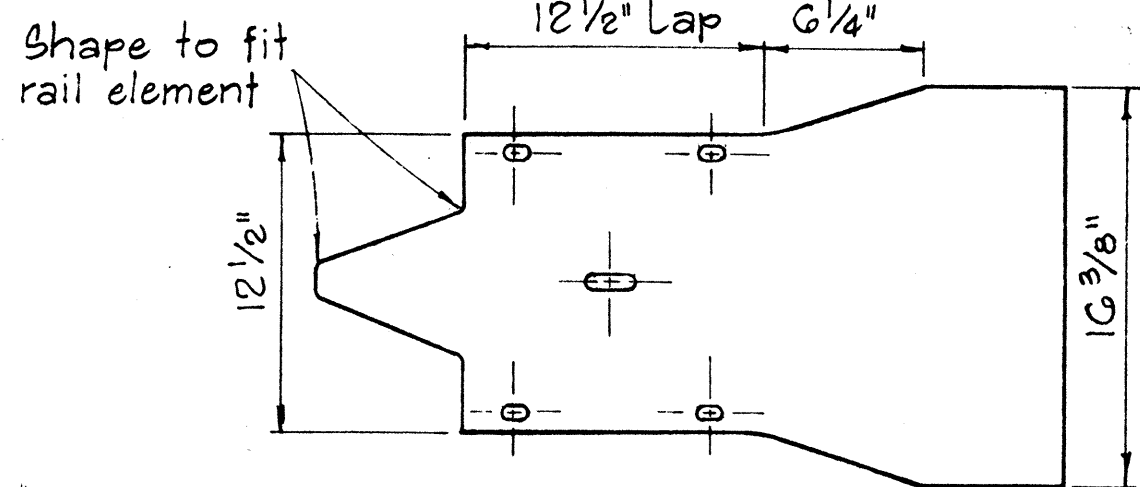
Same as rail element section

FLARED END

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

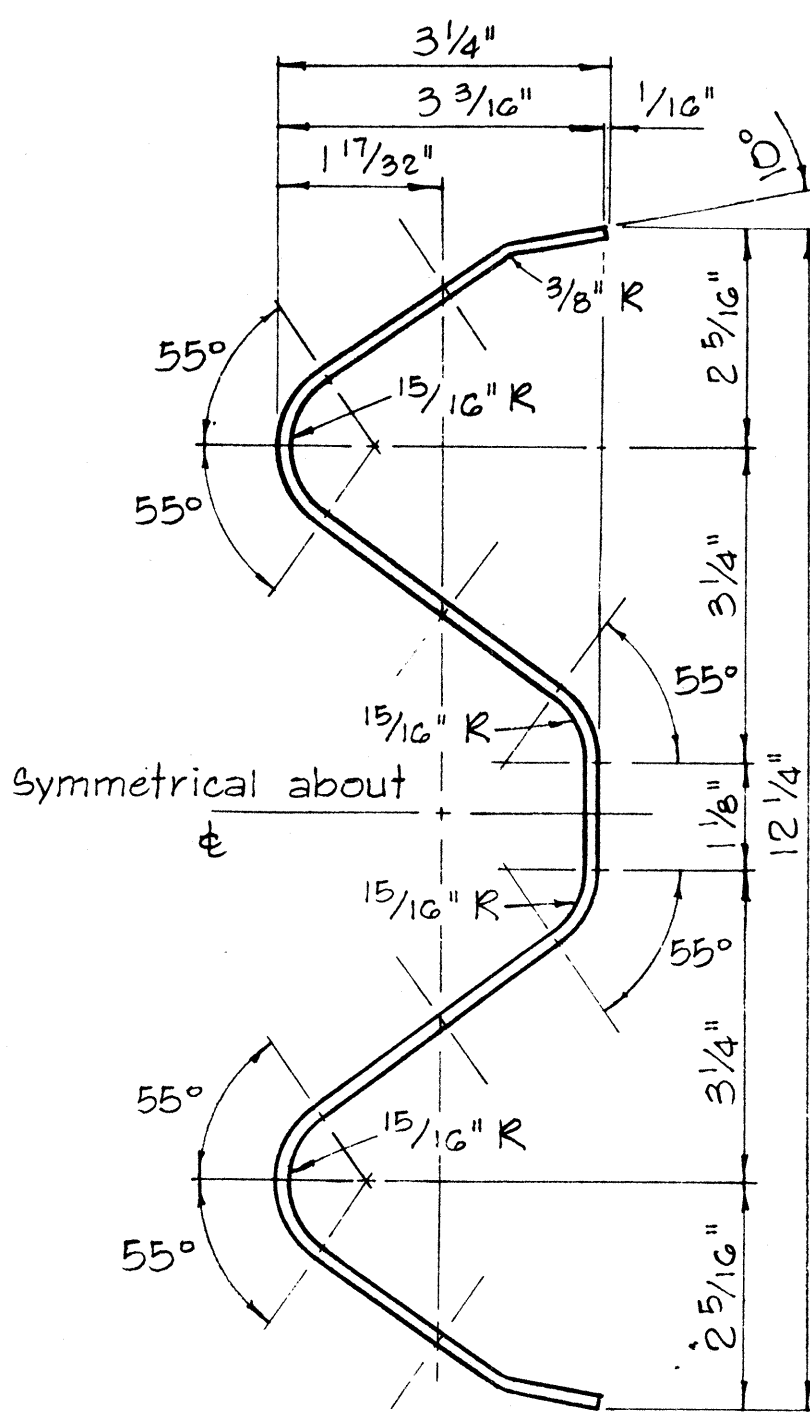


Lap in direction of traffic



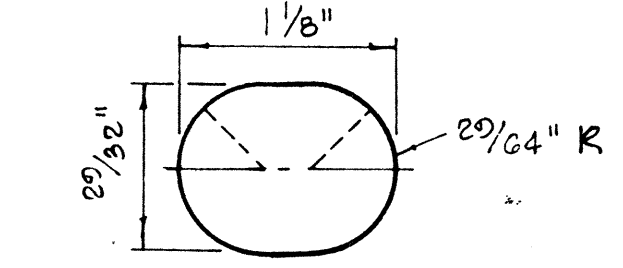
CURVED END

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



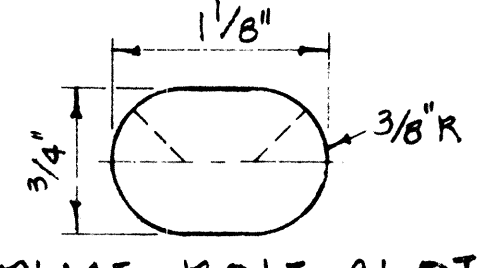
RAIL ELEMENT SECTION

Scale: 6" = 1'-0"

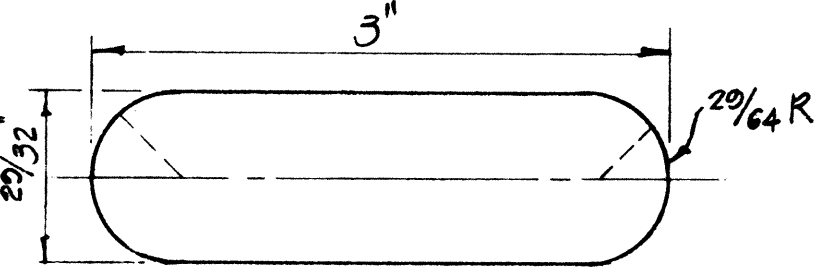


SPlice BOLT SLOT

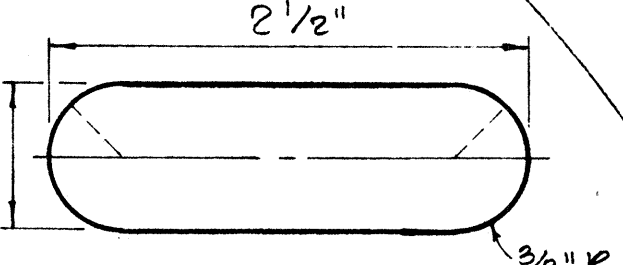
Scale: Full Size



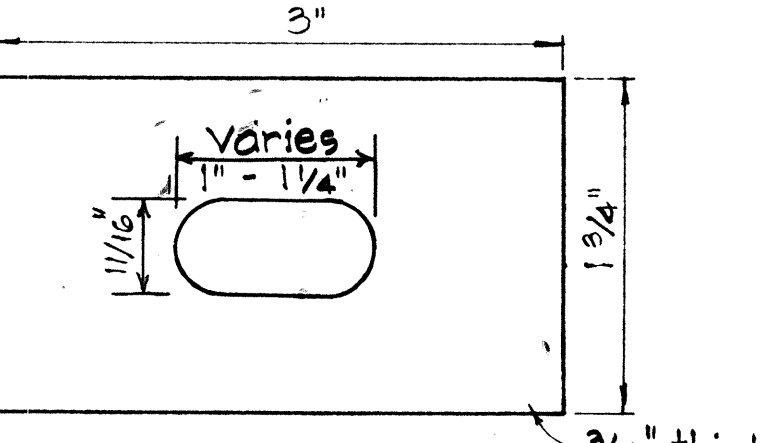
SPlice BOLT SLOT FOR ALL ENDS



SPlice BOLT SLOT FOR SPECIAL END SHOE



POST BOLT SLOT

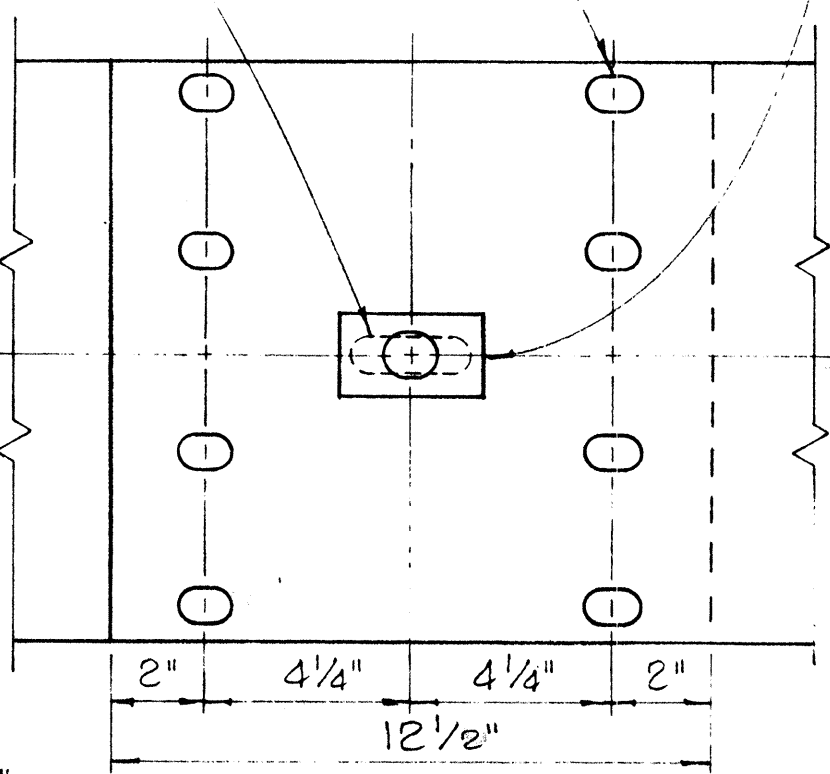


RAIL WASHER

NOTES:

- H.S. Bolts shall conform to the requirements of ASTM A 325.
- Special End Shoe shall be fabricated from 10 Gage steel conforming to the requirements of AASHTO 180.
- Lap in direction of traffic.

MEDIAN END DIMENSIONS		
TYPE OF POST AND BLOCK	W	R
Double Metal Guard Rail on Concrete Post with Wood Blocks	29 3/4"	14 3/8"
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"



RAIL SPlice

Scale: 3" = 1'-0"



THIS WORK WAS PREPARED OR UNDER MY SUPERVISION

NO	REVISION	APPROVED BY	DATE
1	Revised Hole Size for Rectangular Rail Washer	H.T.	8/10/77

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS
METAL GUARD RAIL

Scale: As Noted August, 1968

SHEET No. 8 OF 15 SHEETS DT 501

PLAN

Labels in the plan view include:

- Post Bolt Hole (multiple locations)
- 6'-3" (multiple dimensions)
- Spacer Block BJC @ 8.5"
- Guard Rail Post BJC at 8.5"
- Sec Det. "B"
- Guard Rail Element
- Rub Rail Element

Dimensions shown include 1'-0" (height), 1'-6" (width), and 1'-6" (width).



Scale: $\frac{1}{2}" = 1' - 0"$

Slot for Guard Rail

3'-0"

3 1/2"

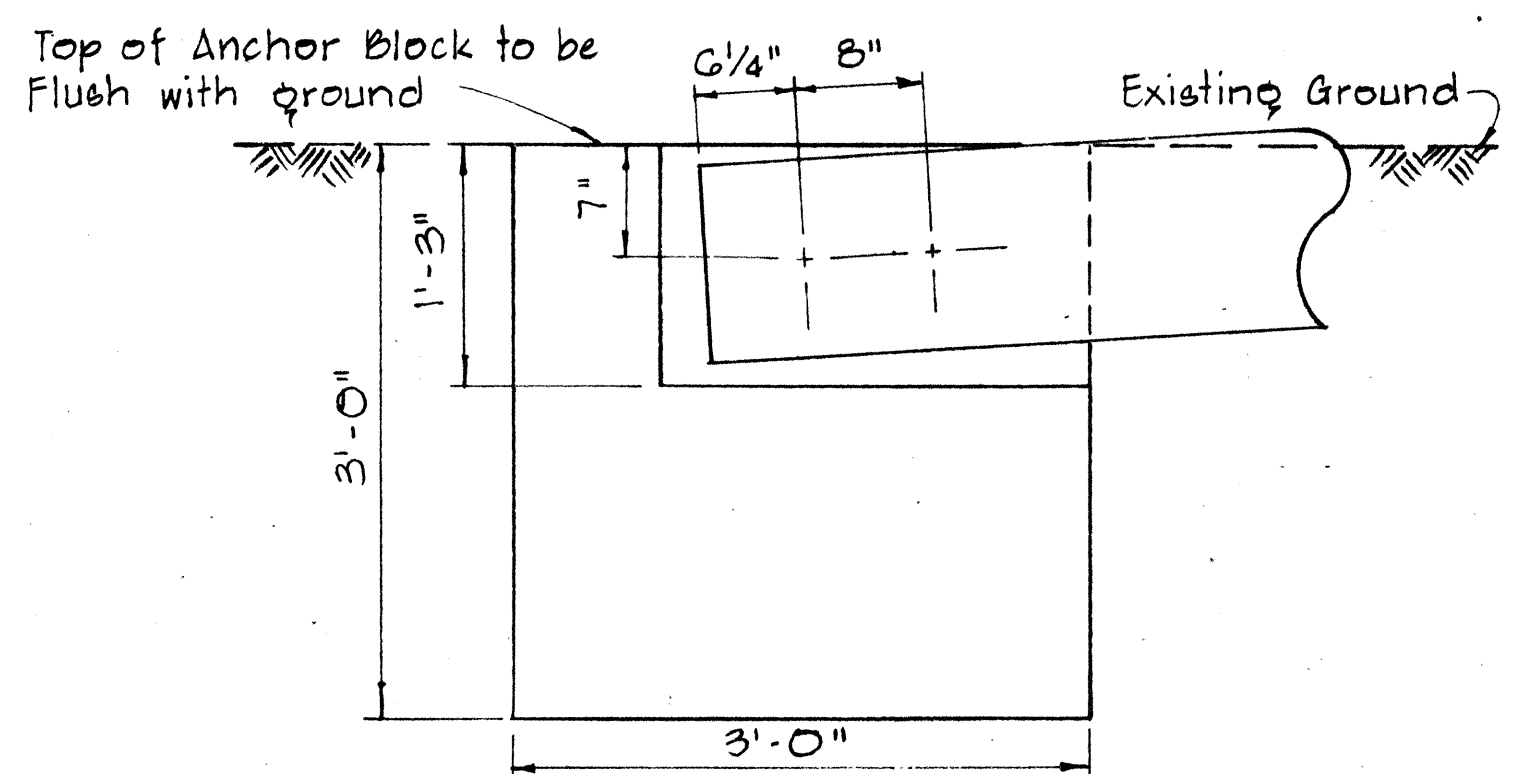
9"

3'-0"

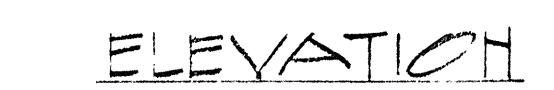


NOTE : 

All Shoe Assembly, including anchor bolts, nuts, and washers, shall be galvanized.



Scale: 1" = 1'.0"


$$Sc. 3'' = 1' - 0''$$


12/29/69
DATE

12-30-59
DATE

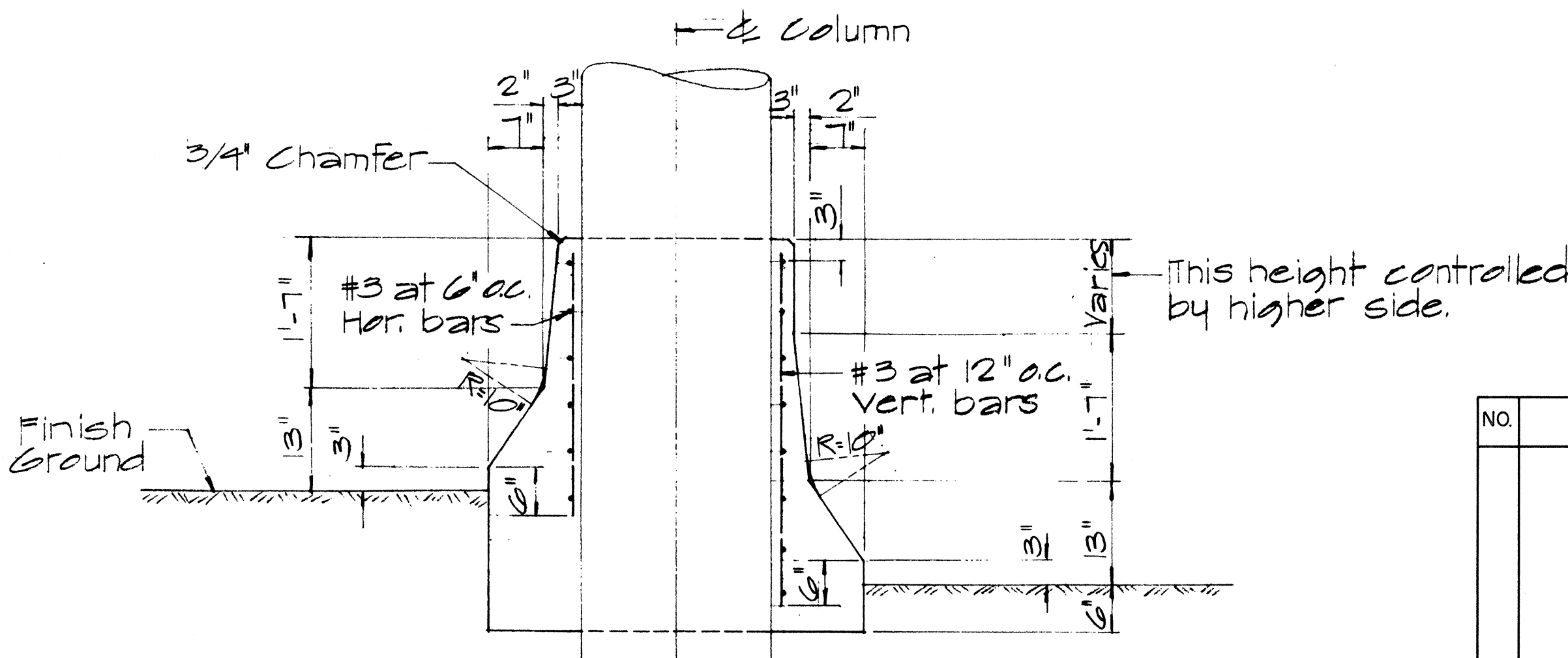
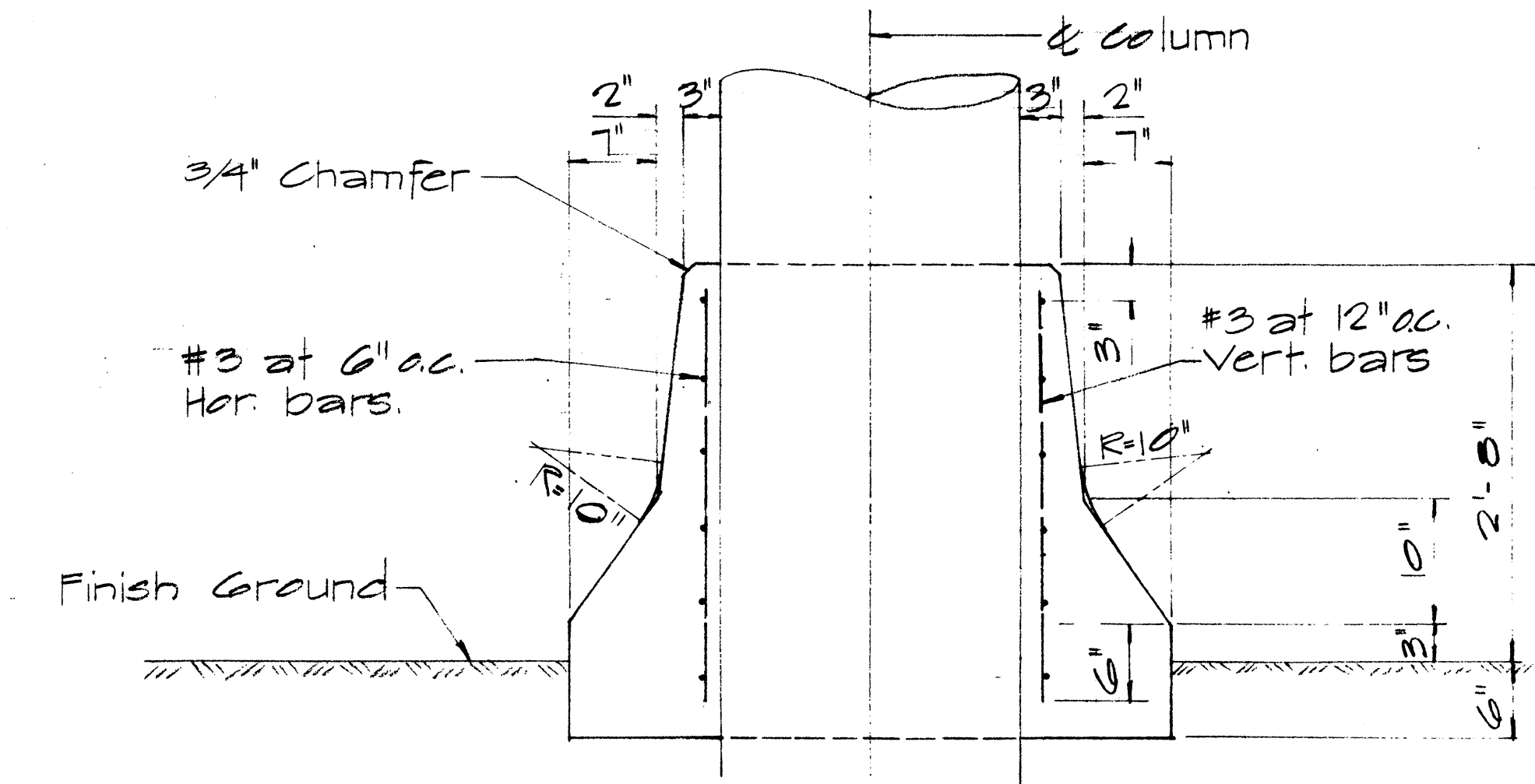
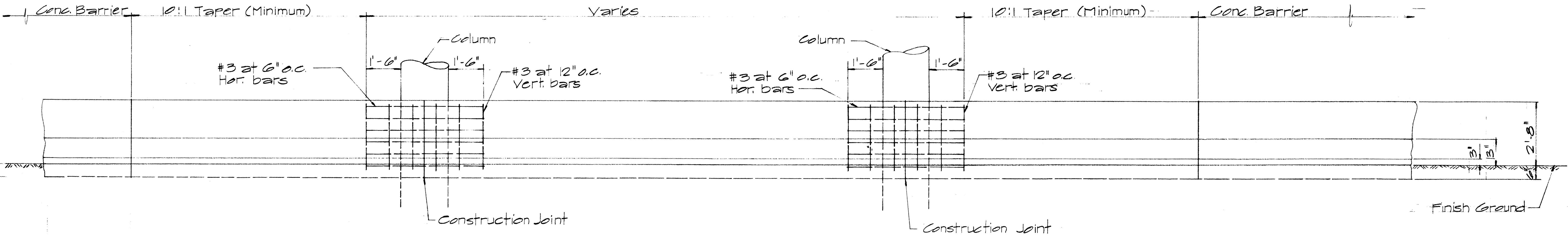
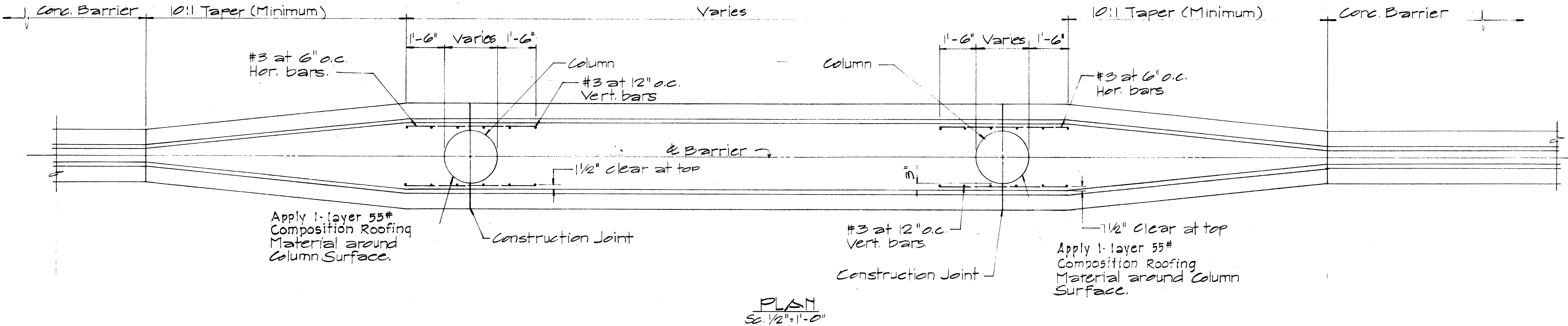
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAIL
GUARD RAIL
RAMP END ANCHORAGE

August, 1968

70

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10-078(10)	1978	37	166



APPROVAL RECOMMENDED:
Eishi Tanaka
 TRAFFIC ENGINEER
 DATE 12/29/69

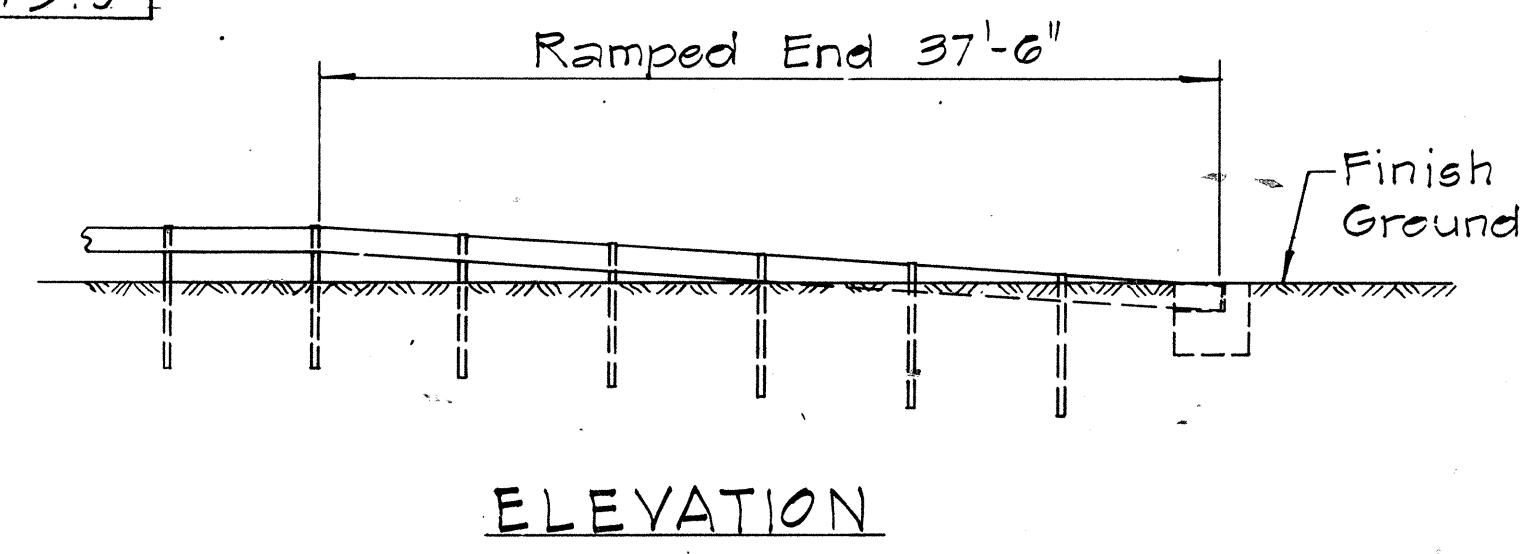
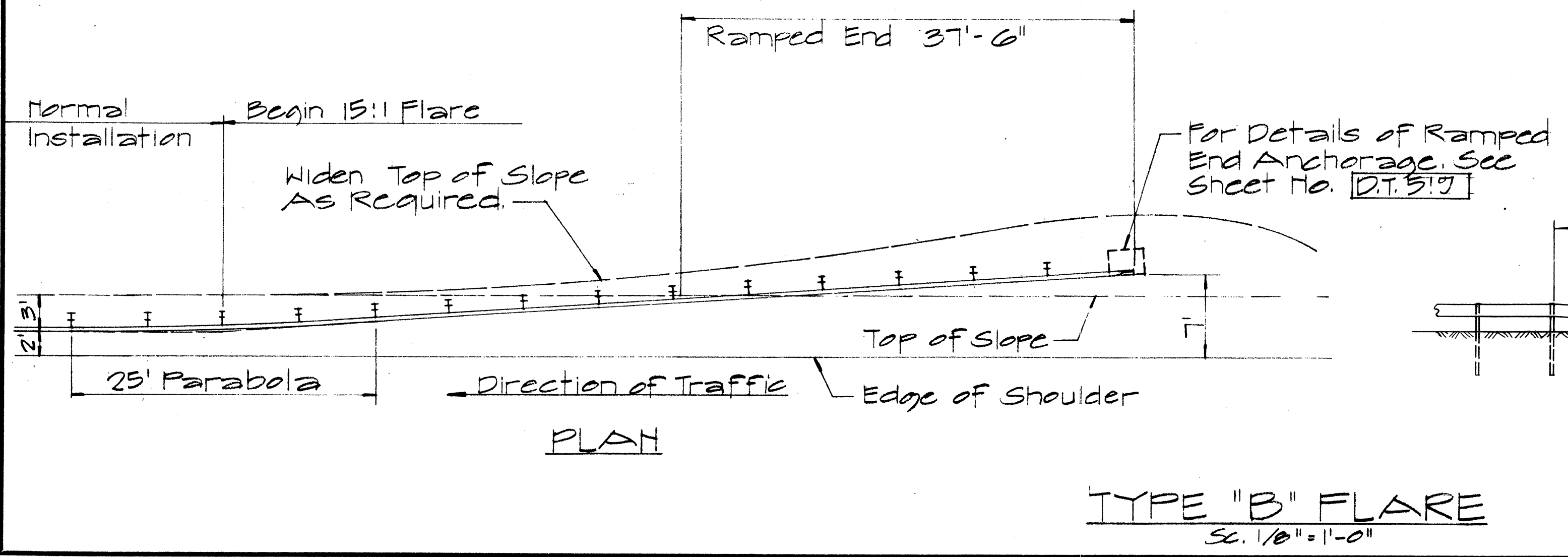
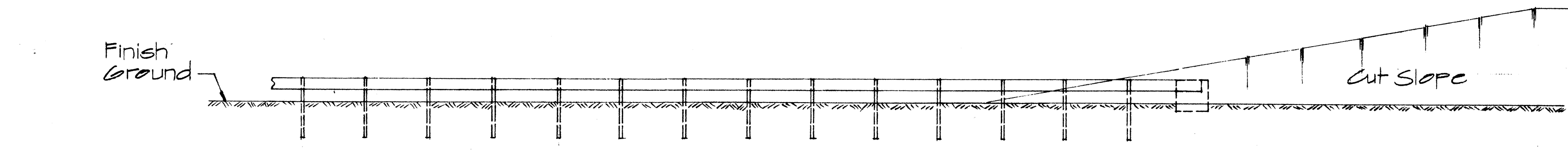
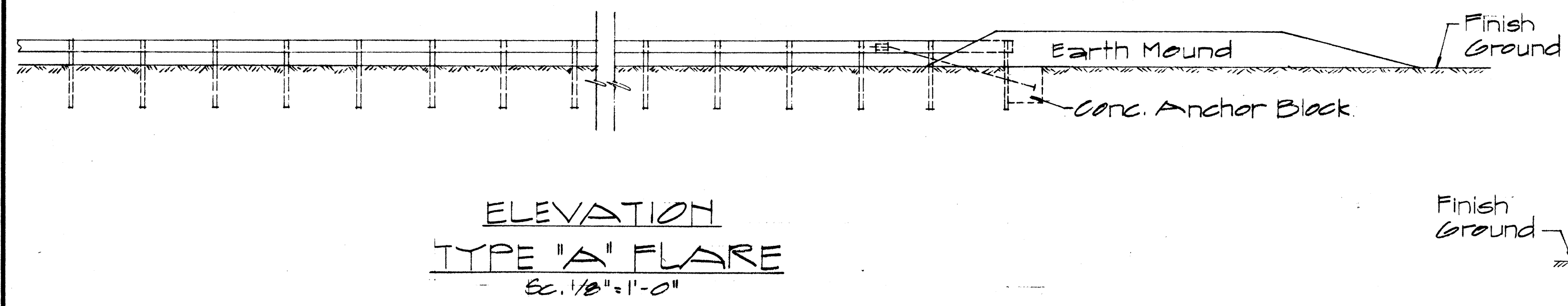
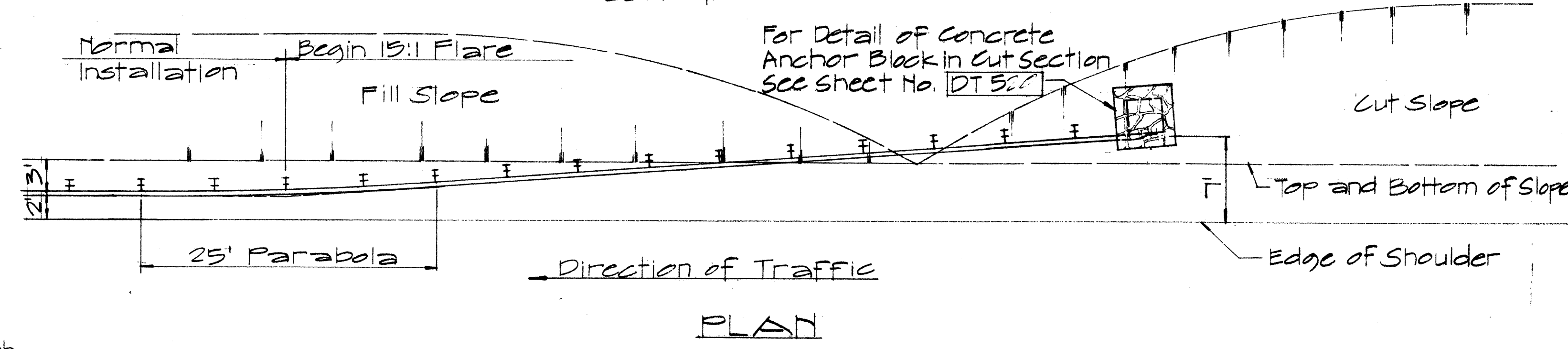
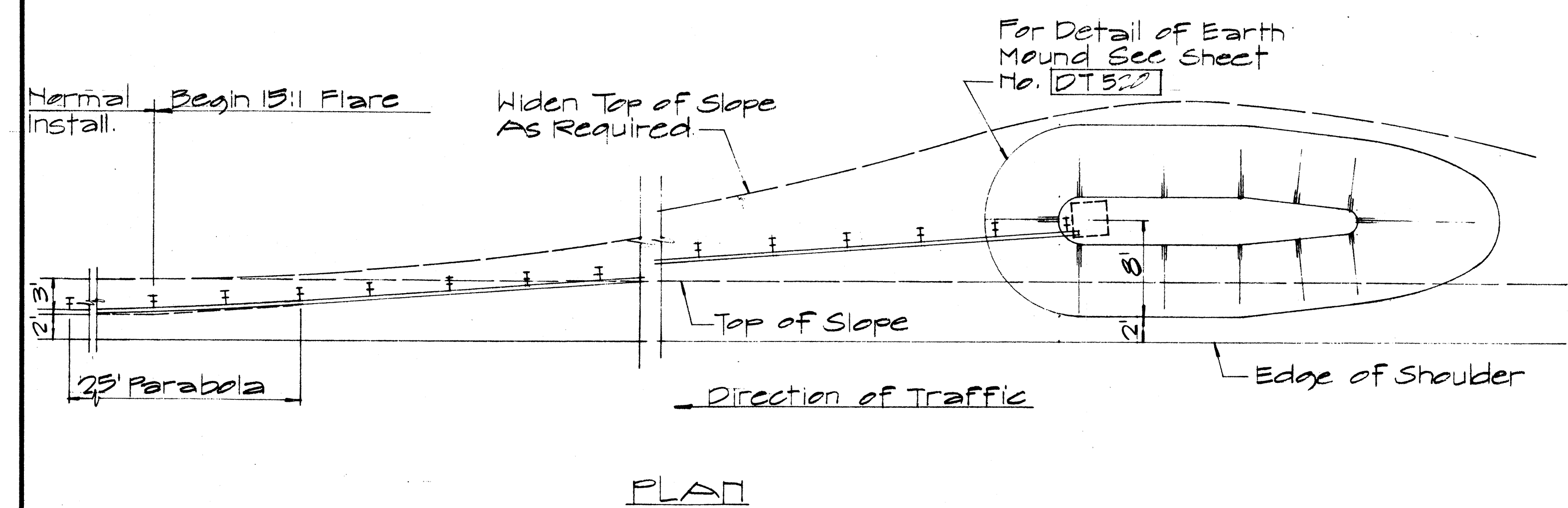
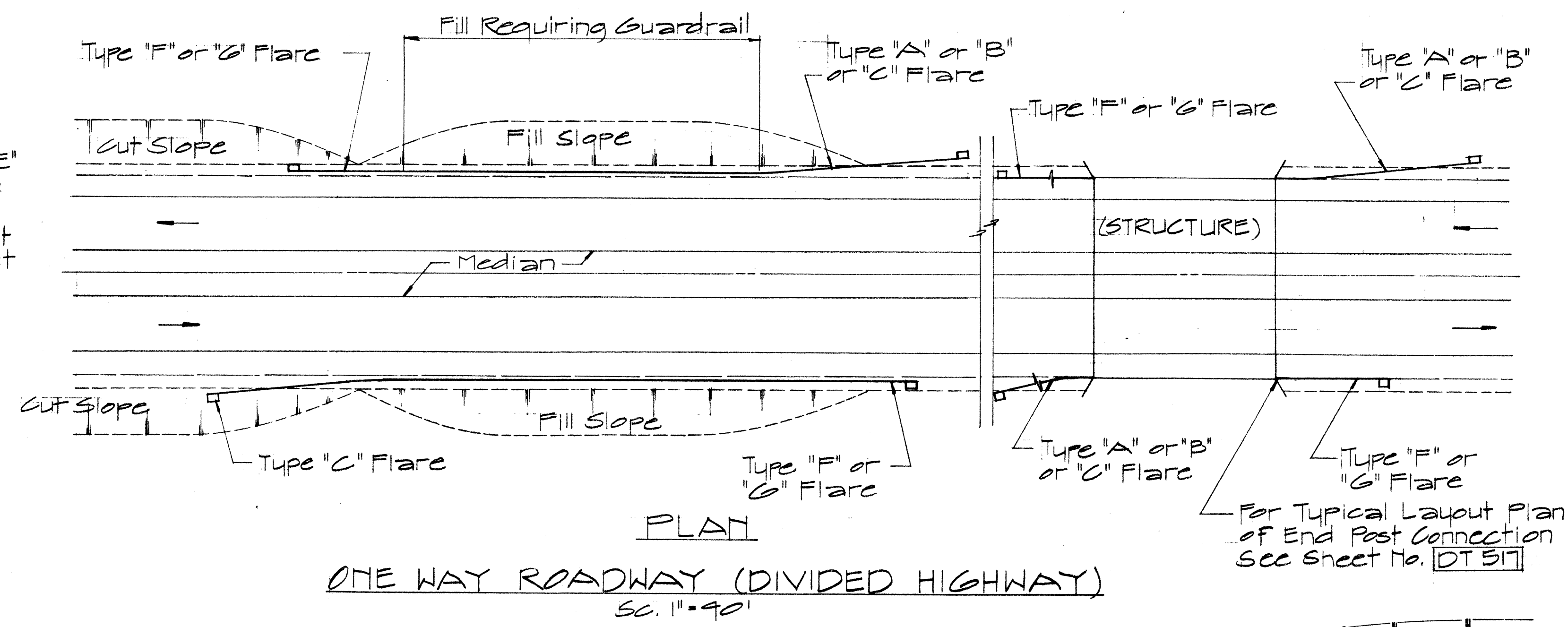
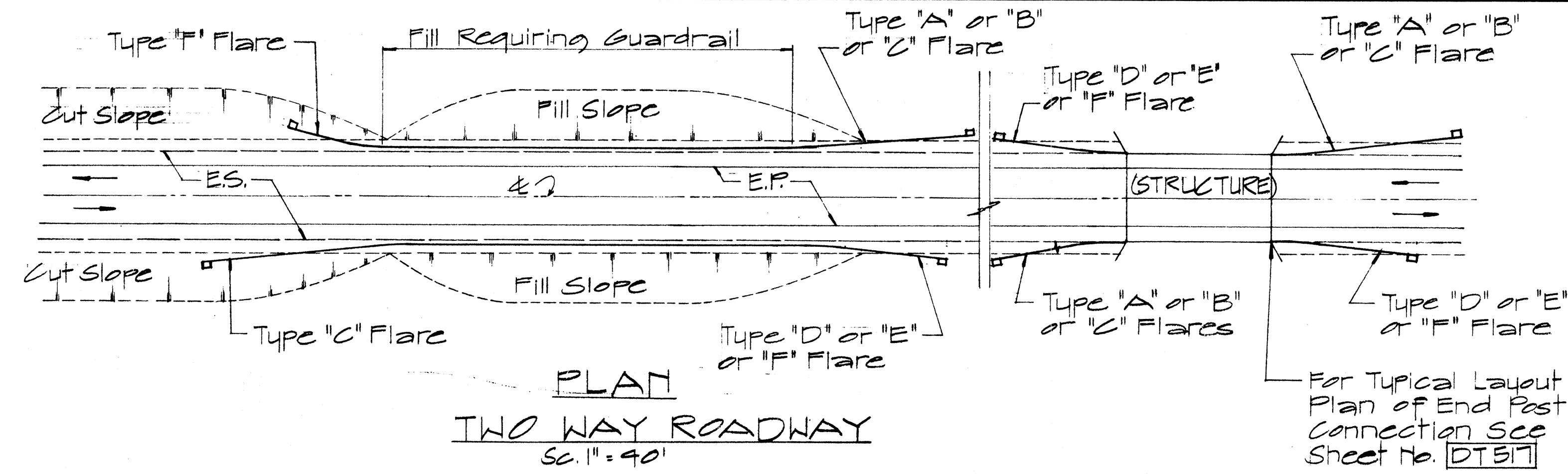
APPROVED:
Shunji Tanaka
 ASSISTANT CHIEF, ENGINEERING
 DATE 12-30-69

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 LAND TRANSPORTATION FACILITIES DIVISION
STANDARD DETAIL
CONCRETE BARRIER
TRANSITION
 Scale As Noted Feb. 1969
 SHEET No. 10 OF 15 SHEETS DT 512

NOTE:
Metal guard rail connection to structures requires
End Post Connection. See structure plans.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	T&F-0781(6)	1978	38	166



ELEVATION
TYPE "C" FLARE
Sc. 1/8" = 1'-0"

NO.	REVISION	APPROVED BY	DATE

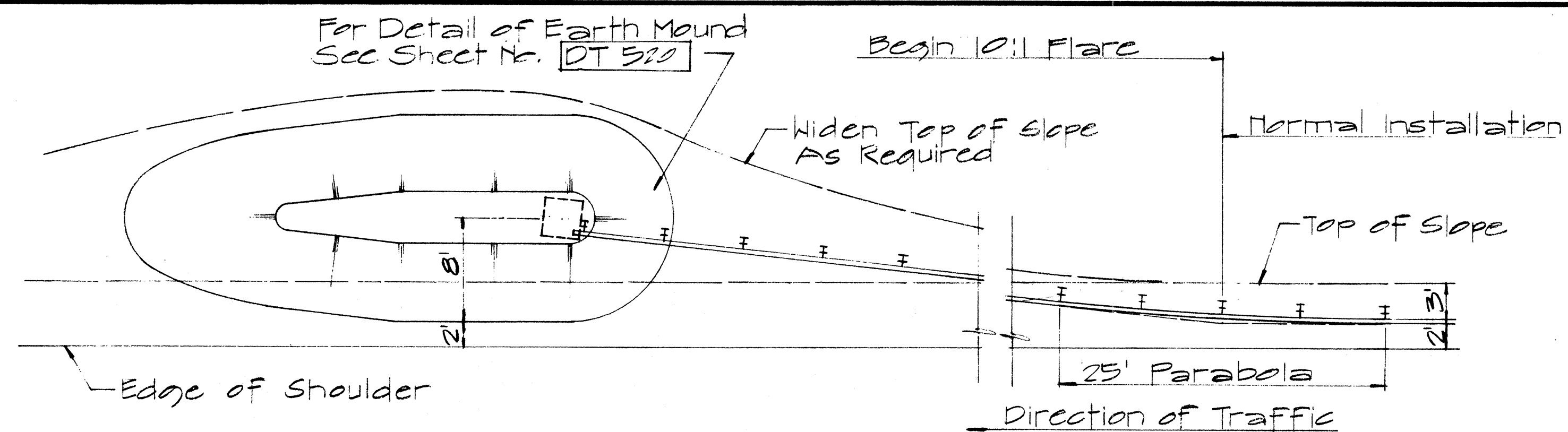
APPROVAL RECOMMENDED:
Euschi Tanaka 12/23/62
TRAFFIC ENGINEER DATE

APPROVED:
John B. Del 12-30-69
ASSISTANT CHIEF, ENGINEERING DATE

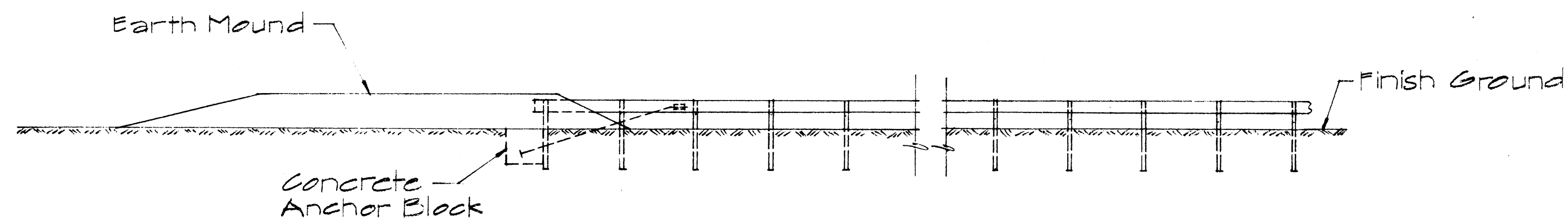
STATE OF HAWAII
LAND TRANSPORTATION FACILITIES DIVISION
**STANDARD DETAILS
OF APPROACH END
FLARE - ONE & TWO
WAY ROADWAY**
Sc. As Noted April 1967
SHEET No. 11 OF 15 SHEETS DT 516

DATE
SURVEY PLANNED BY
DRAWN BY
CHECKED BY
ORIGINAL PLAN
NOTE BOOK
No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	T4-F-078-118	1978	39	166



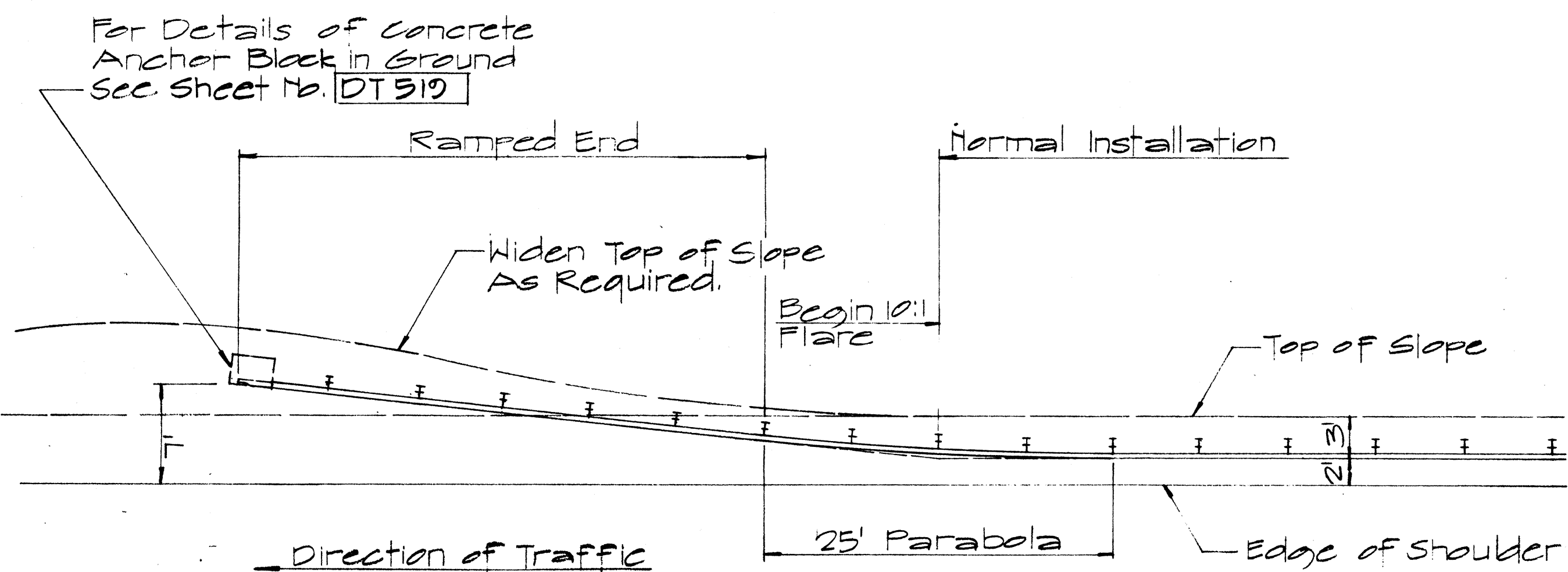
PLAN



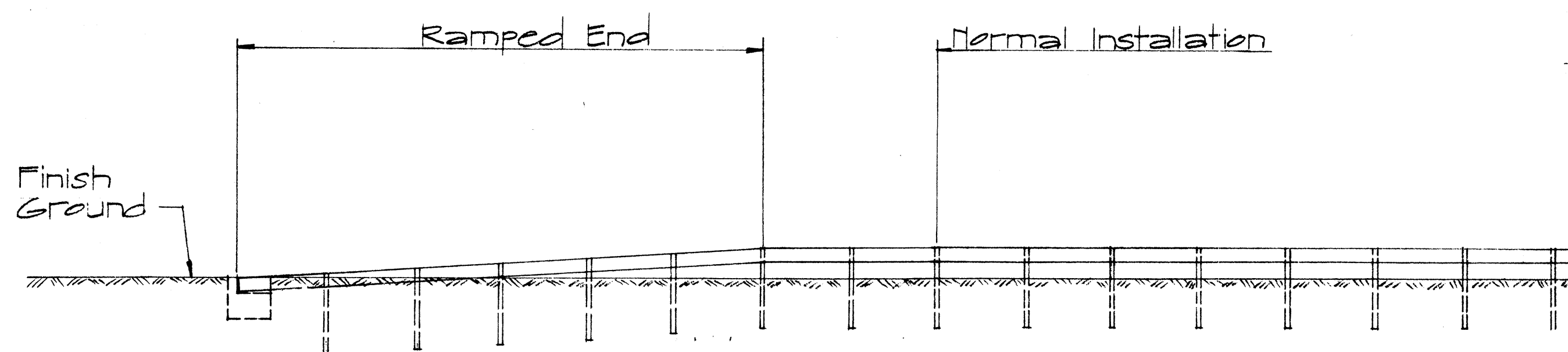
ELEVATION

TYPE "D" FLARE

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



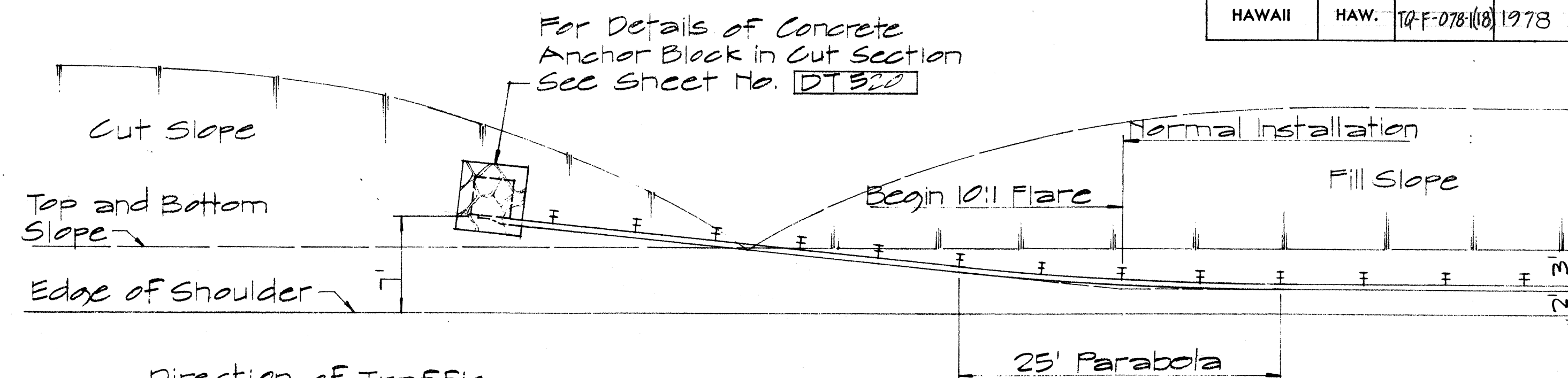
PLAN



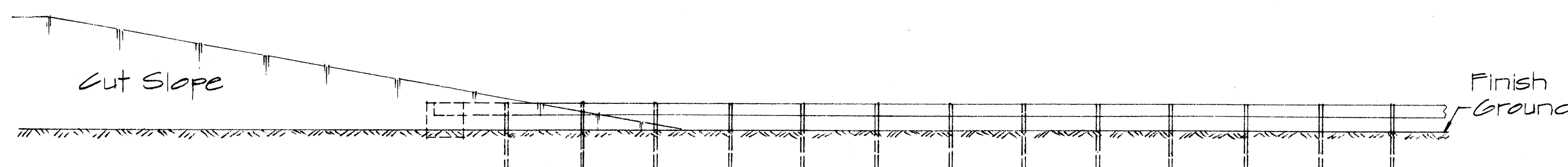
ELEVATION

TYPE "E" FLARE

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



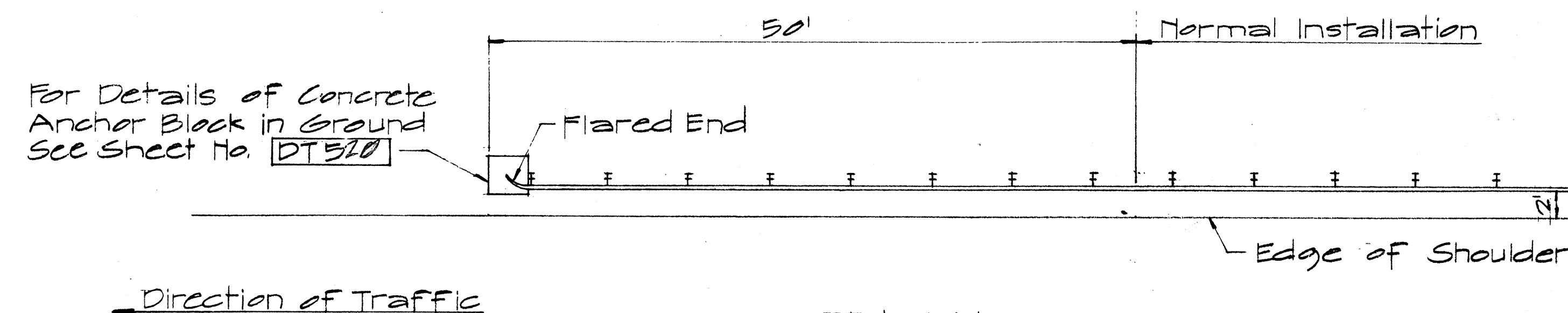
PLAN



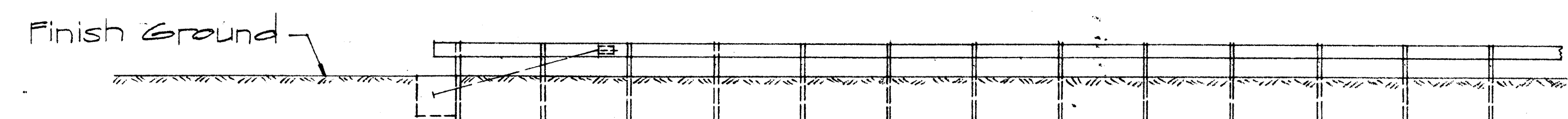
ELEVATION

TYPE "F" FLARE

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



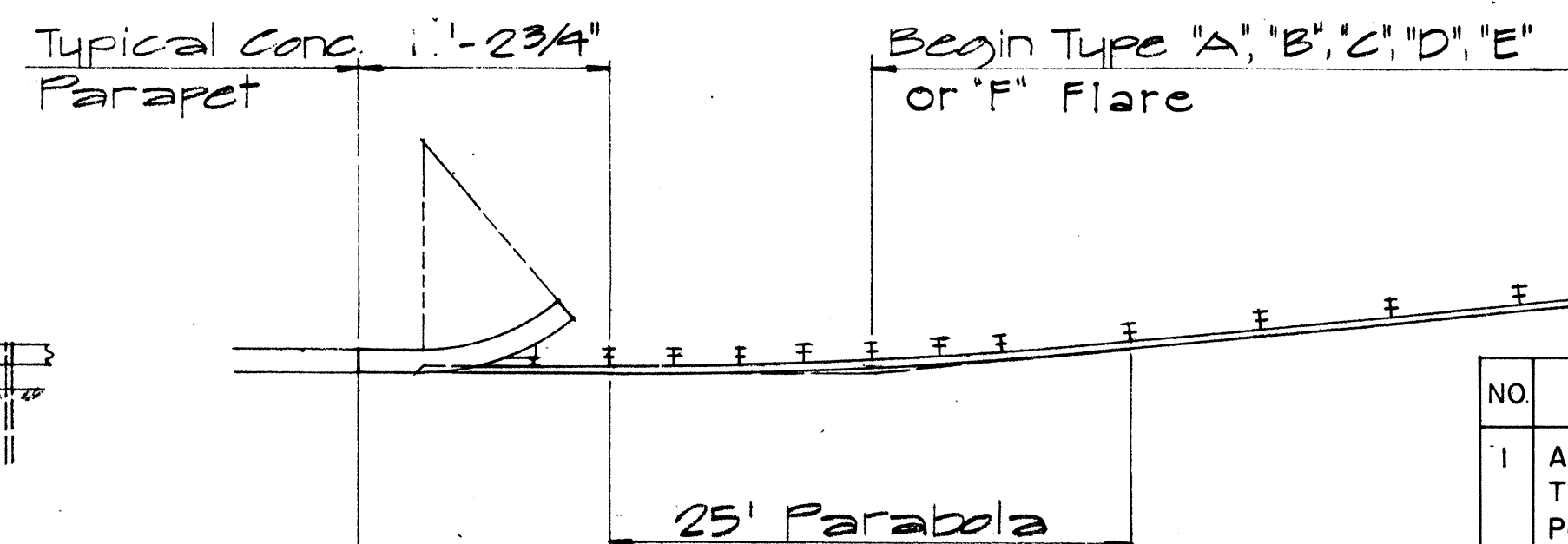
PLAN



ELEVATION

TYPE "G" FLARE

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



TYPICAL LAYOUT PLAN OF END POST CONNECTION

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

APPROVAL RECOMMENDED:
Eishi Tanaka 12/29/69
TRAFFIC ENGINEER DATE

APPROVED:
J. J. Kal 12-30-69
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Additional Posts Added to Typical Layout Plan Of End Post Connection	H.T.	4-12-72

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

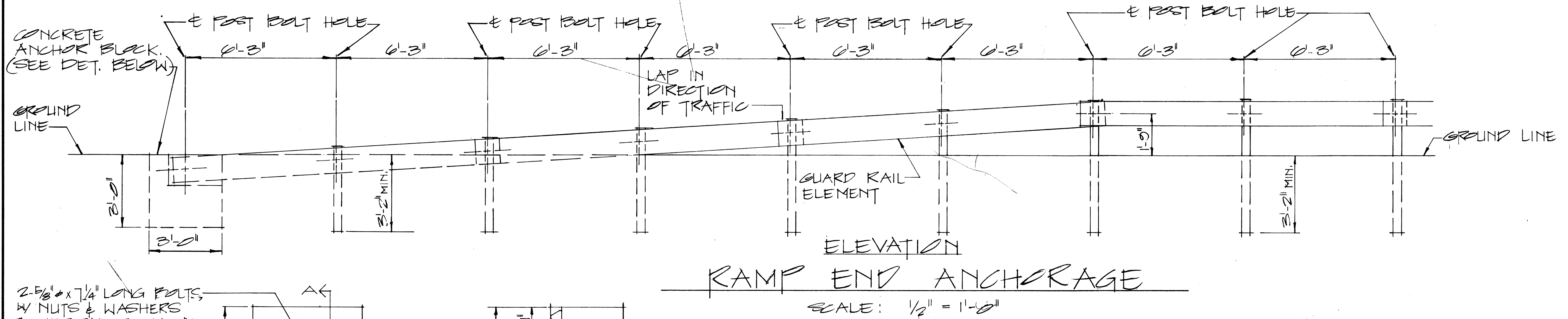
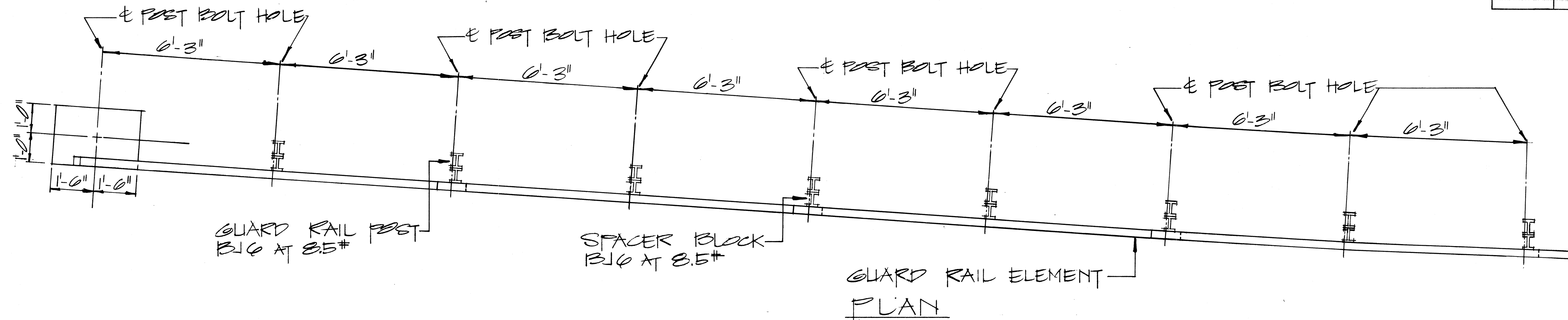
STANDARD DETAILS
TRAILING END
FLARE - ONE & TWO
WAY ROADWAY

Scale: As Noted April 1969

SHEET No. 12 OF 15 SHEETS DT 517

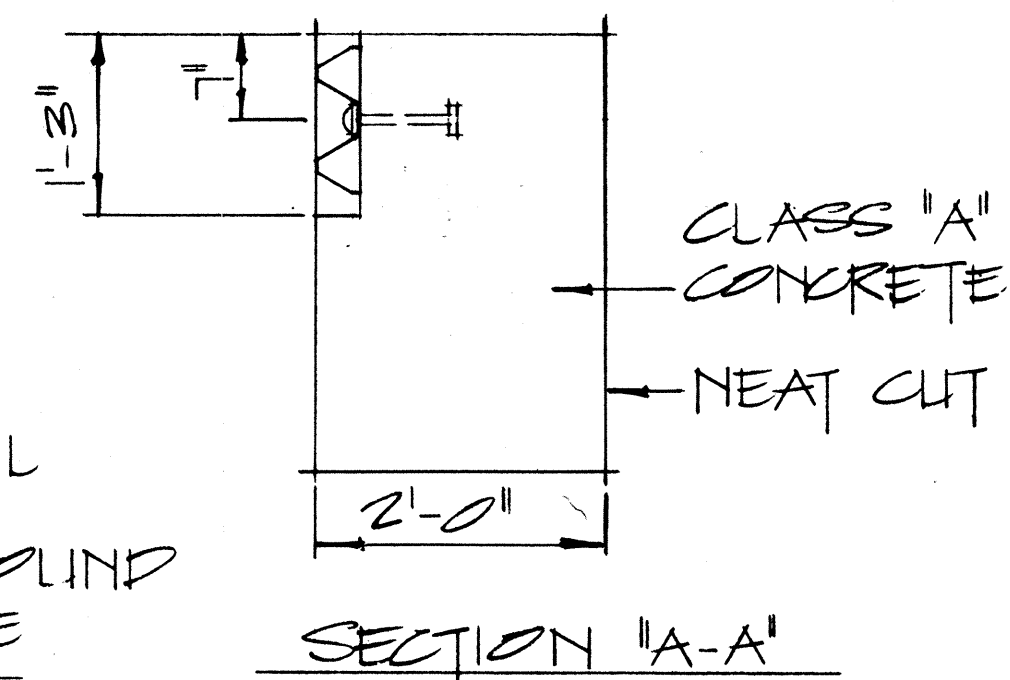
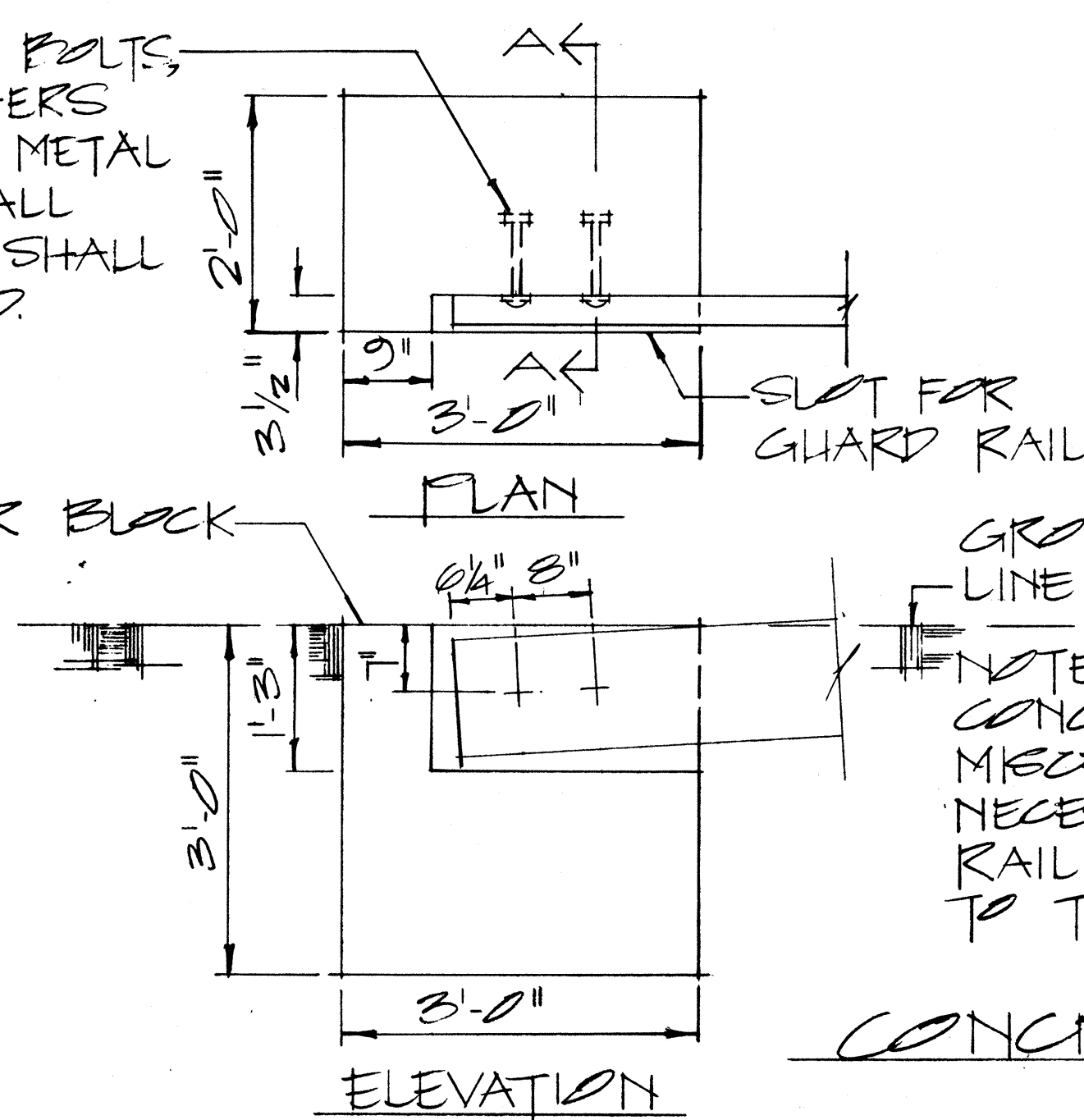
DATE	12/29/69
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10-F-078-1(70)	1978	40	166



2-5/8" x 7/4" LONG BOLTS w/ NUTS & WASHERS INCIDENTAL TO METAL GUARD RAIL. ALL METAL PIECES SHALL BE GALVANIZED.

TOP OF ANCHOR BLOCK TO BE FLUSH w/ GROUND.



NOTE: CONCRETE, EXCAVATION AND MISCELLANEOUS APPURTENANCES NECESSARY TO ANCHOR THE GUARD RAIL ENDS, SHALL BE INCIDENTAL TO THE METAL GUARD RAIL.

CONCRETE ANCHOR BLOCK
SCALE: 3/4" = 1'-0"

APPROVAL RECOMMENDED:
Erich Tanaka 12/29/69
TRAFFIC ENGINEER DATE

APPROVED:
John J. Delaney 12-30-69
ASSISTANT CHIEF, ENGINEERING DATE

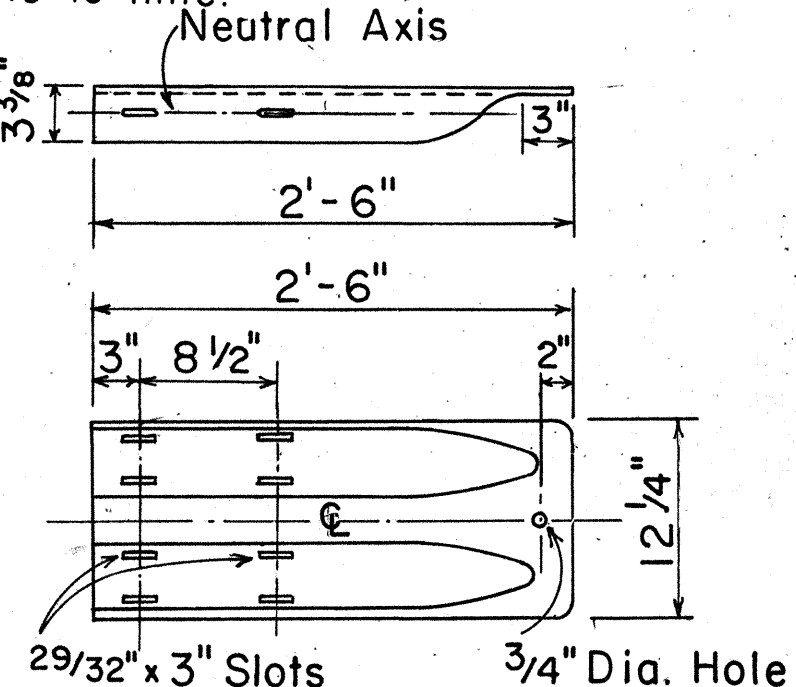
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
STANDARD DETAILS
GUARD RAIL, TYPE 3
RAMP END ANCHORAGE
SCALE: AS SHOWN
SHEET No. 13 OF 15 SHEETS PT512

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	105-F-072-1(10)	1985	60	260

NOTES:

- Anchor Plate and Anchor Cable Assembly (Standard Swaged Fitting and Stud). See Standard Detail Sheet No. DT 520.
- Other Anchor Cable Assemblies may be used. Minimum breaking strength of assembly should be 40,000 lbs.
- Second Terminal Post does not require holes to accomodate Anchor Cable.
- Slip Base Load shall be controlled with a Calibrated Torque Wrench - Torque 155 - 170 ft. lbs.
- Concrete shall be Class A.
- B.C.T. Hardware has been superceded by "A Guide Standardized Highway Barrier Rail Hardware," A report prepared and approved by the AASHTO-AGC-ARTBA joint cooperation committee. All hardware shall conform to above mentioned publication and as revised from time to time.



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

APPROVAL RECOMMENDED:

Eishi Tanaka
TRAFFIC ENGINEER 6/14/78
DATE

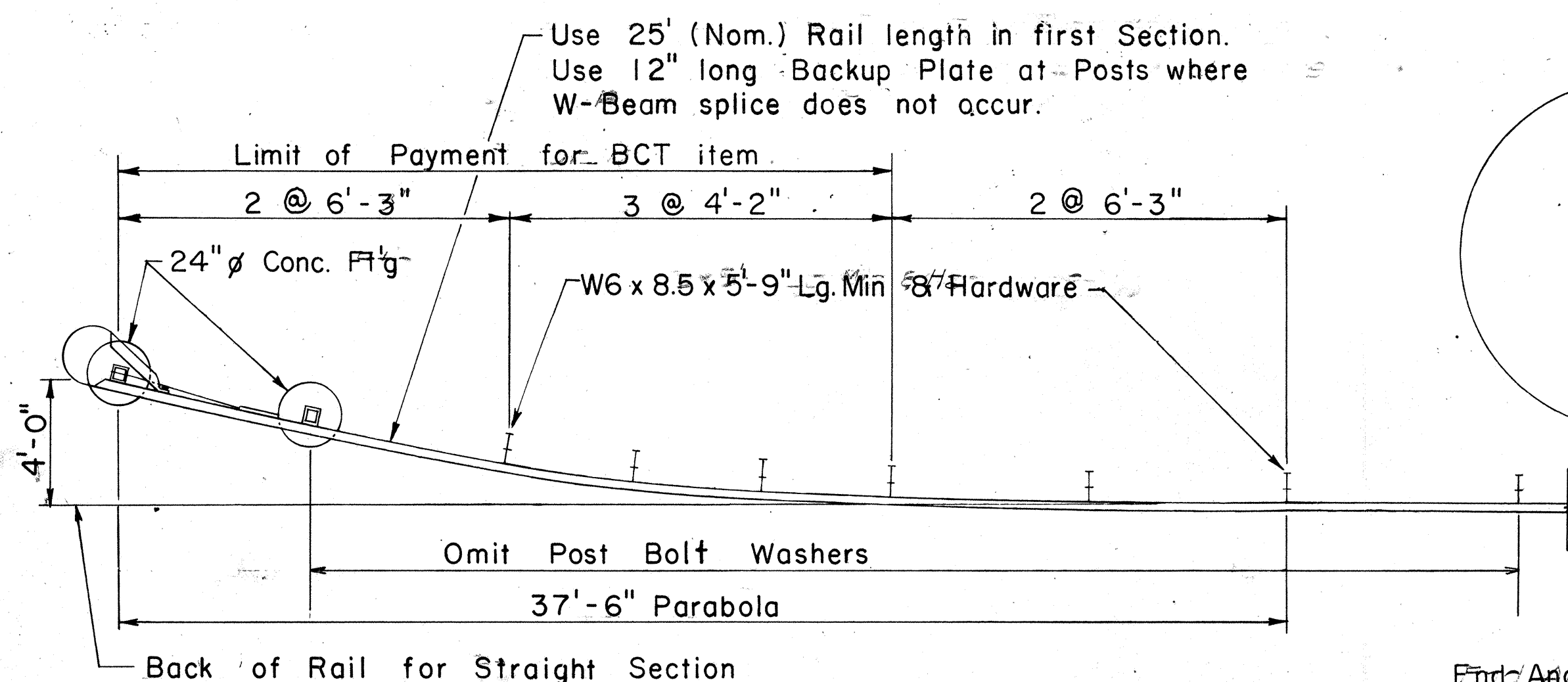
APPROVED:

Harbor Sakaiishi
ASSISTANT CHIEF, ENGINEERING 6/15/78
DATE

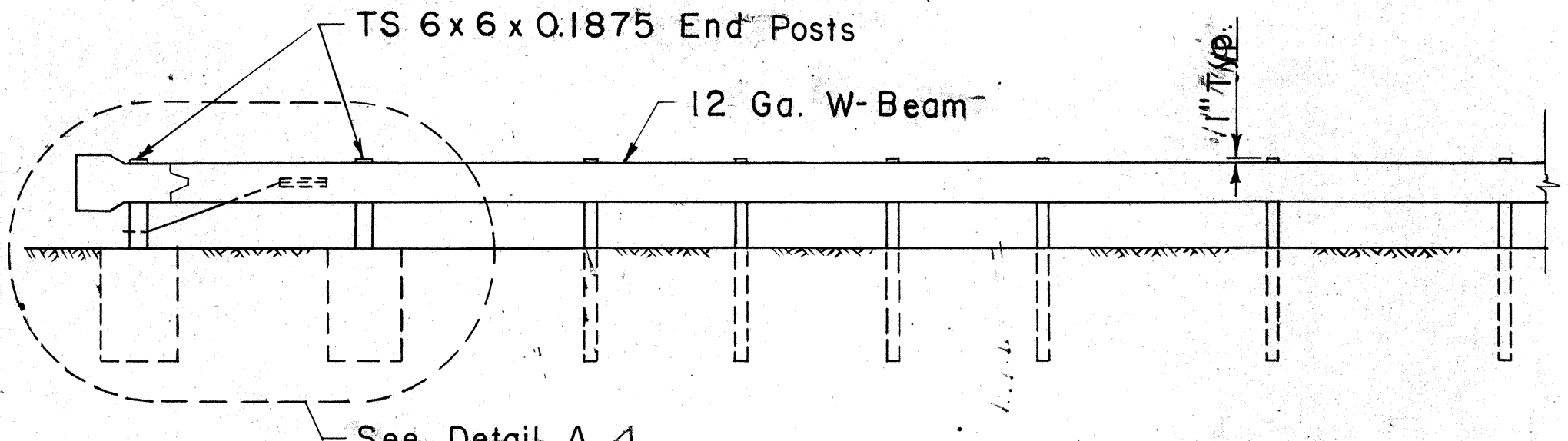
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAIL
BREAKAWAY CABLE TERMINAL (BCT)

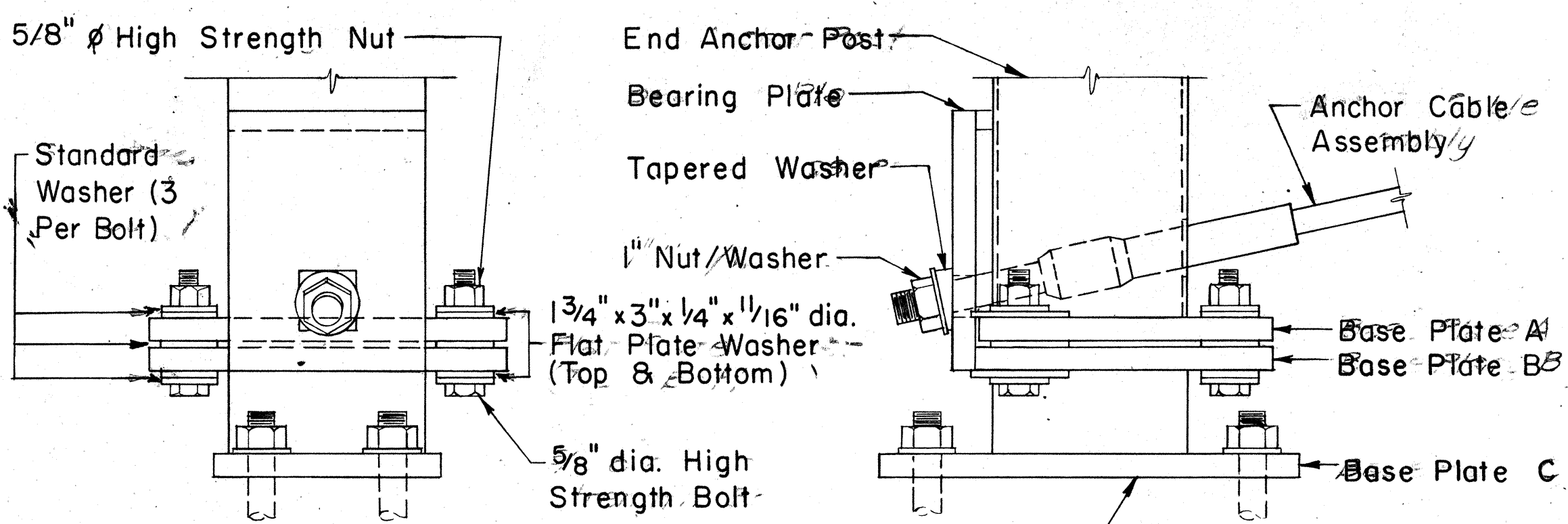
Scale: As Shown Date: June 1978
SHEET No. 13A OF 15 SHEETS DT 519



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



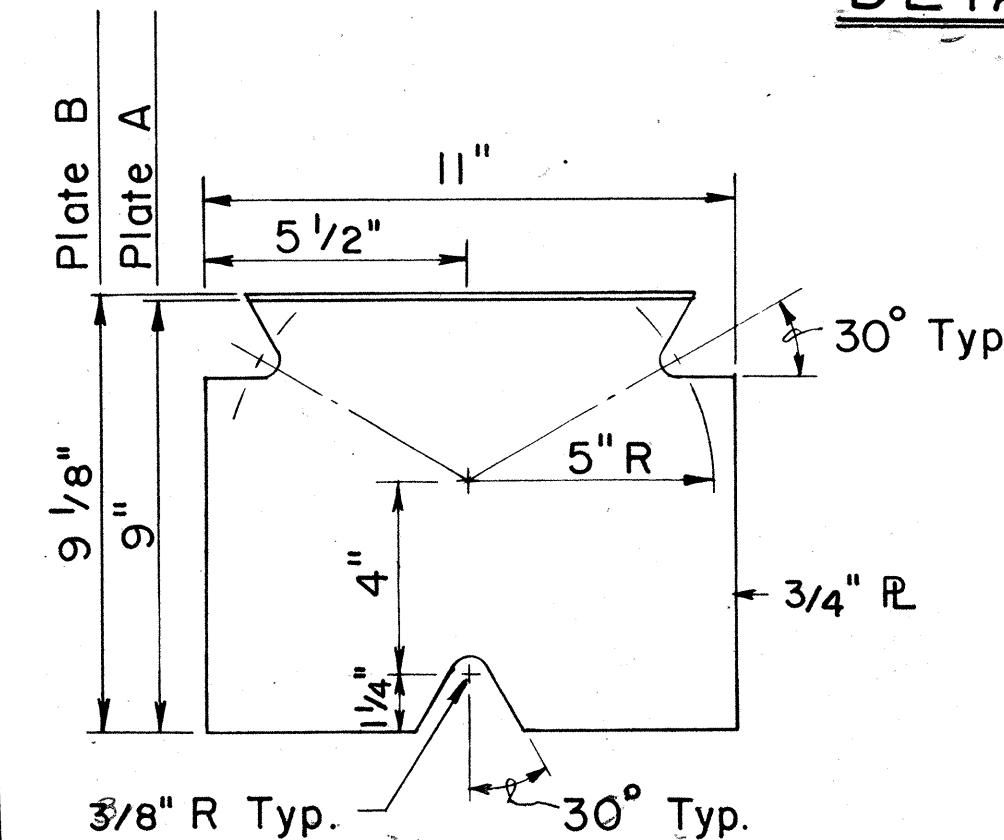
ELEVATION
Scale: 1/4" = 1'-0"



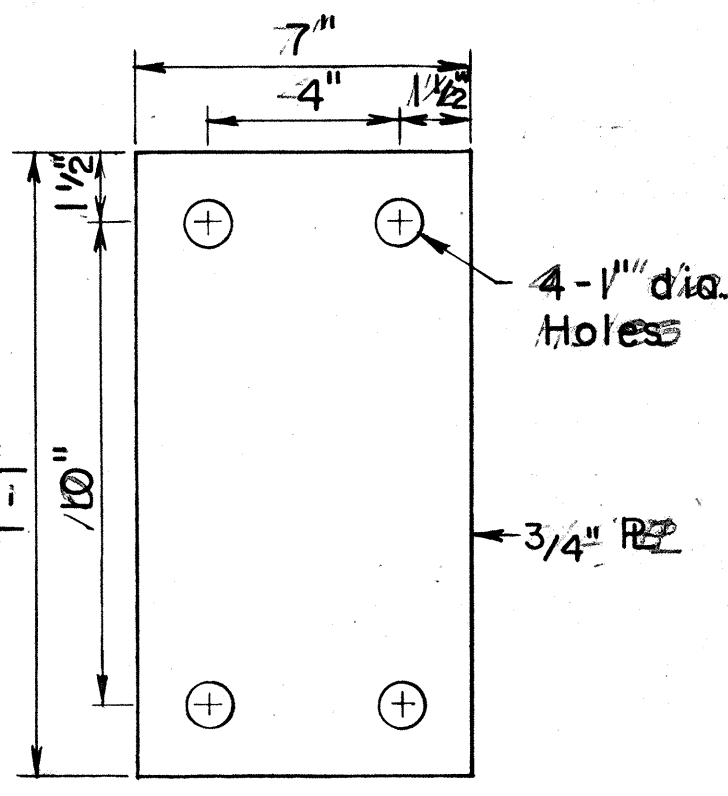
SIDE ELEVATION

FRONT ELEVATION

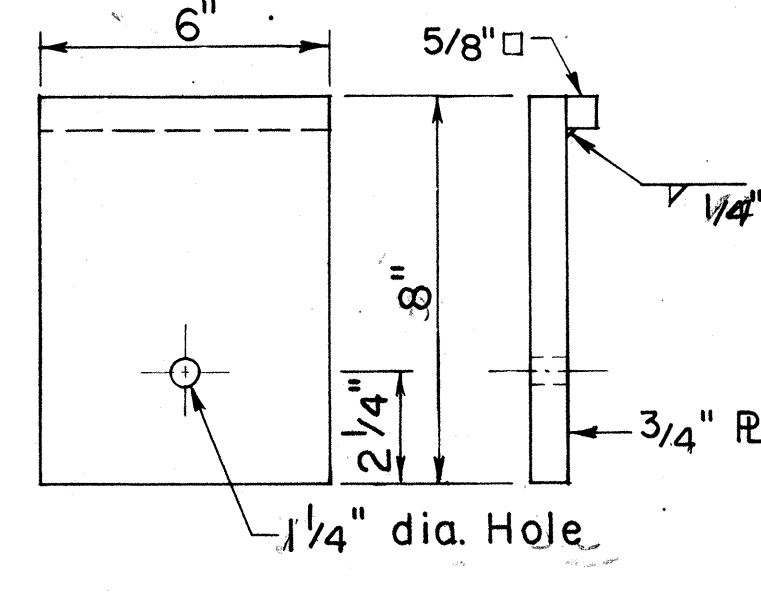
DETAIL B



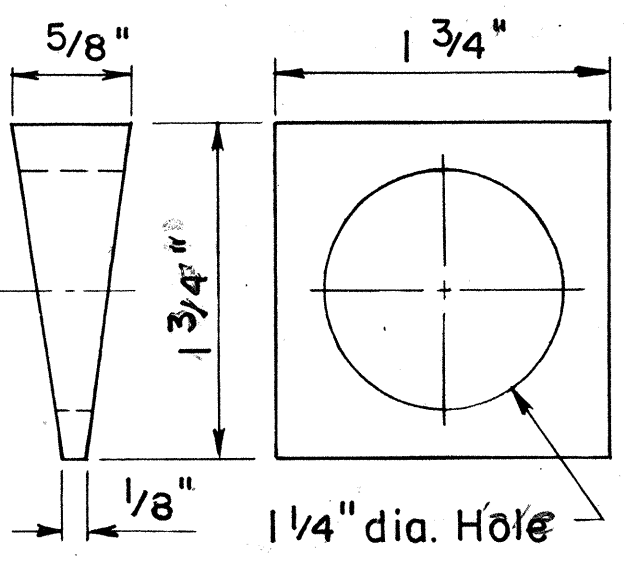
BASE PLATES A & B
Scale: 3" = 1'-0"



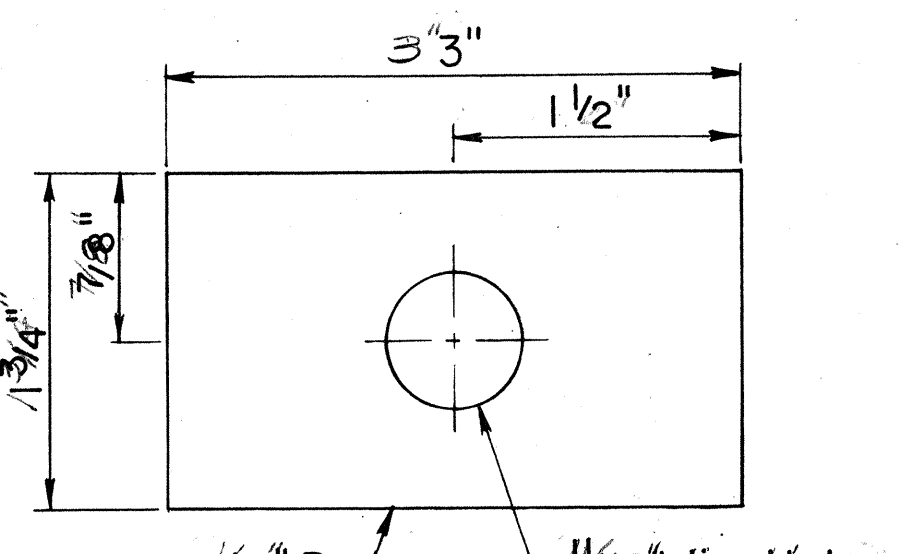
BASE PLATE C
Scale: 3" = 1'-0"



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

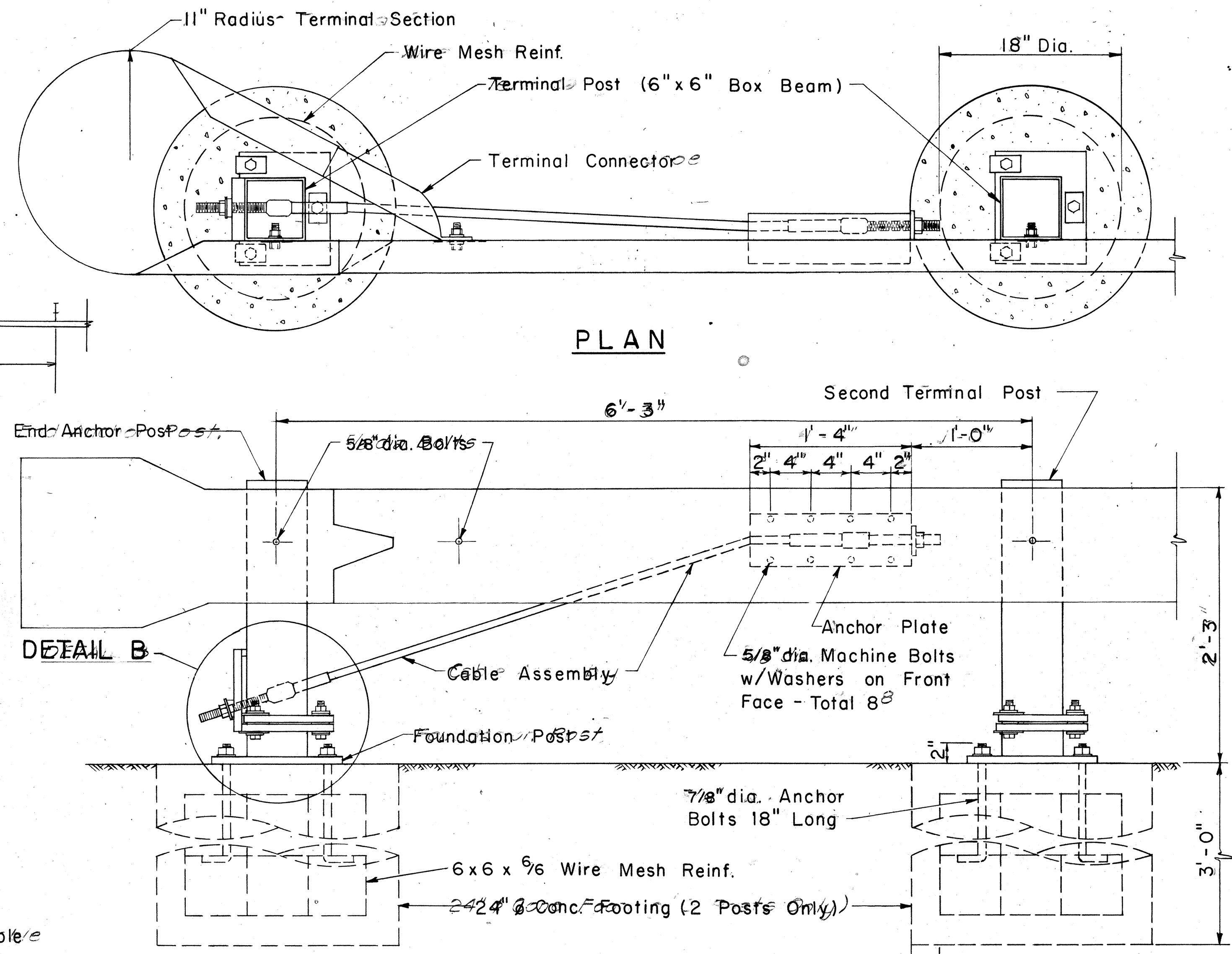


TAPERED WASHER
Scale: Full Size



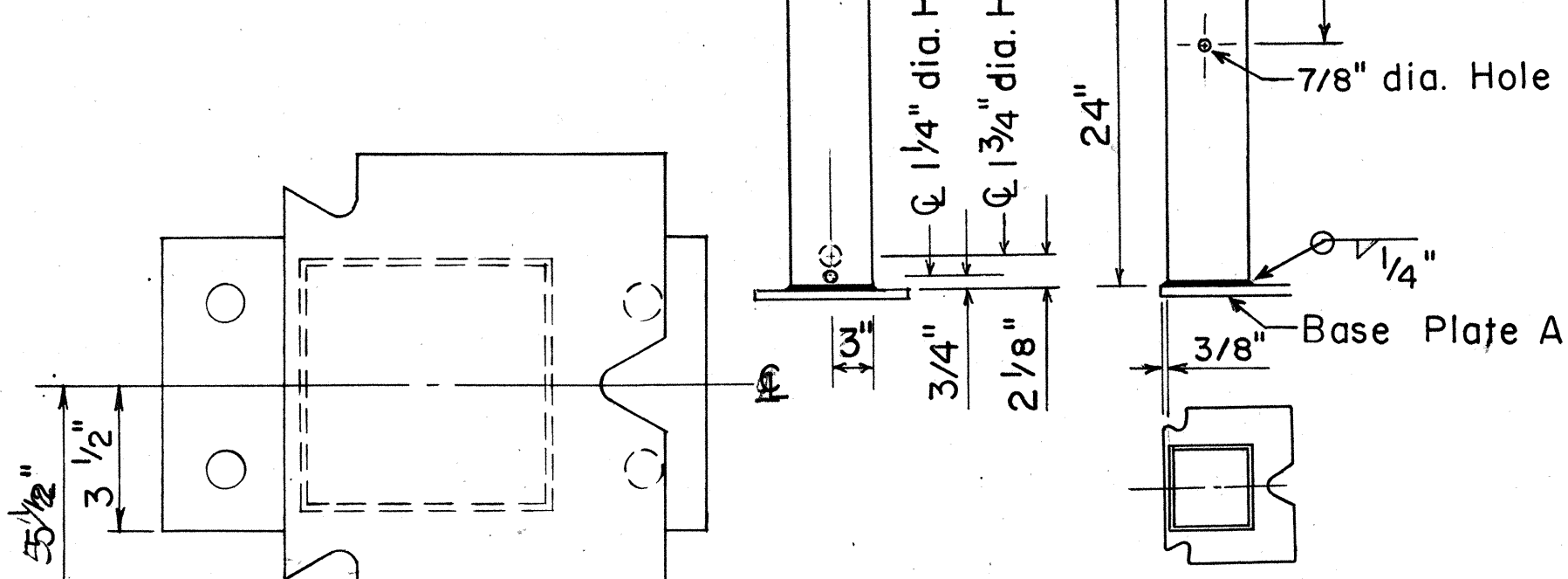
FLAT PLATE WASHER
Scale: Full Size

**ELEVATION
DETAIL A**
Scale: 1/2" = 1'-0"

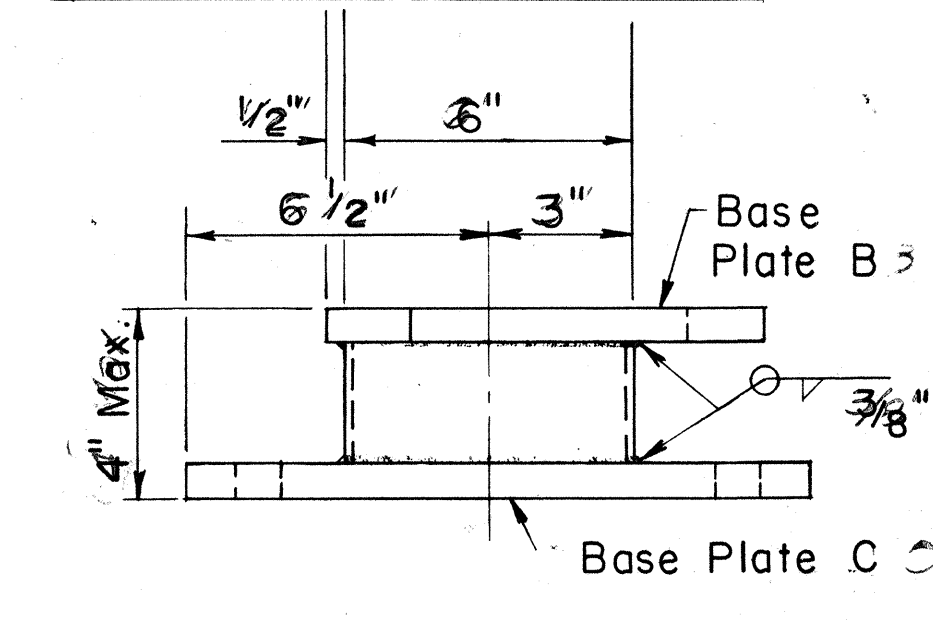


PLAN

**ELEVATION
DETAIL A**
Scale: 1/2" = 1'-0"



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



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

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 519 Approved 12/30/69	H.T.	6/15/78
2	Added Note 6	H.T.	12/17/80

DATE	DESIGNED BY	CHECKED BY
6/15/78	E.T.	H.T.
6/15/78	DRAWN BY	CHECKED BY
6/15/78	E.T.	H.T.
6/15/78	NOTED BY	CHECKED BY
6/15/78	E.T.	H.T.

Technical drawing of a vertical pile foundation cross-section. The pile is 2'-0" wide at the base and 2'-7" high. It features a central vertical channel with a 3" deep key and a 3/4" chamfer. The pile is surrounded by a 3" barrier. The drawing includes dimensions for the pile's width, height, and the barrier, as well as labels for "Fin. Grade" and "Barrier".

Technical drawing of a bridge pier cross-section. The drawing includes the following dimensions and labels:

- Top Dimensions:** 2" 3", 7", 3", 7", 2"
- Left Side Dimensions:** 3/4" Chamfer, 1' - 7", 10", 3", 1' - 0", Less than 1' - 0"
- Right Side Dimensions:** 10", 3", 9", 1' - 7", 10", 3"
- Bottom Dimensions:** 2' - 0", 3 1/2"
- Internal Features:** # 4 Cont. Horiz. (reinforcement bar), R = 10" (radius), 3" deep key
- Notes:** "Varies" (vertical dimension), "This height controlled by higher side." (note on the right)
- Ground Level:** "Fin. Grade" (Finish Grade) indicated on both sides.

[illegible]

TYPE	DIFFERENCE IN FIN. GRADE	FOOTING	
	X	Y	Z
4C	1'-0" min., 2'-4" max.	1'-0"	4'-0"
4D	Greater than 2'-4", 4'-4" max.	1'-3"	4'-6"

[illegible]

A cross-sectional diagram of a preformed joint filler. The filler is shown as a hatched shape with a total width of 1/2". It has a top flange that is 1/2" thick. The main body of the filler has a width of 3" and a height of 5". The bottom flange is 1/2" thick and 3" wide. The filler is designed to fit into a joint between two surfaces, with a 4" gap between the filler and the adjacent surface.

NO.	REVISION	APPROVED BY	DATE
1	Supersede Sht. DT 521 Approved 12-30-69	H.T.	2/10/71
2	Added No. 4 Steel Reinforcing Bar. Change Dimension on Type 4C & 4D Detail	H.T.	2/10/71