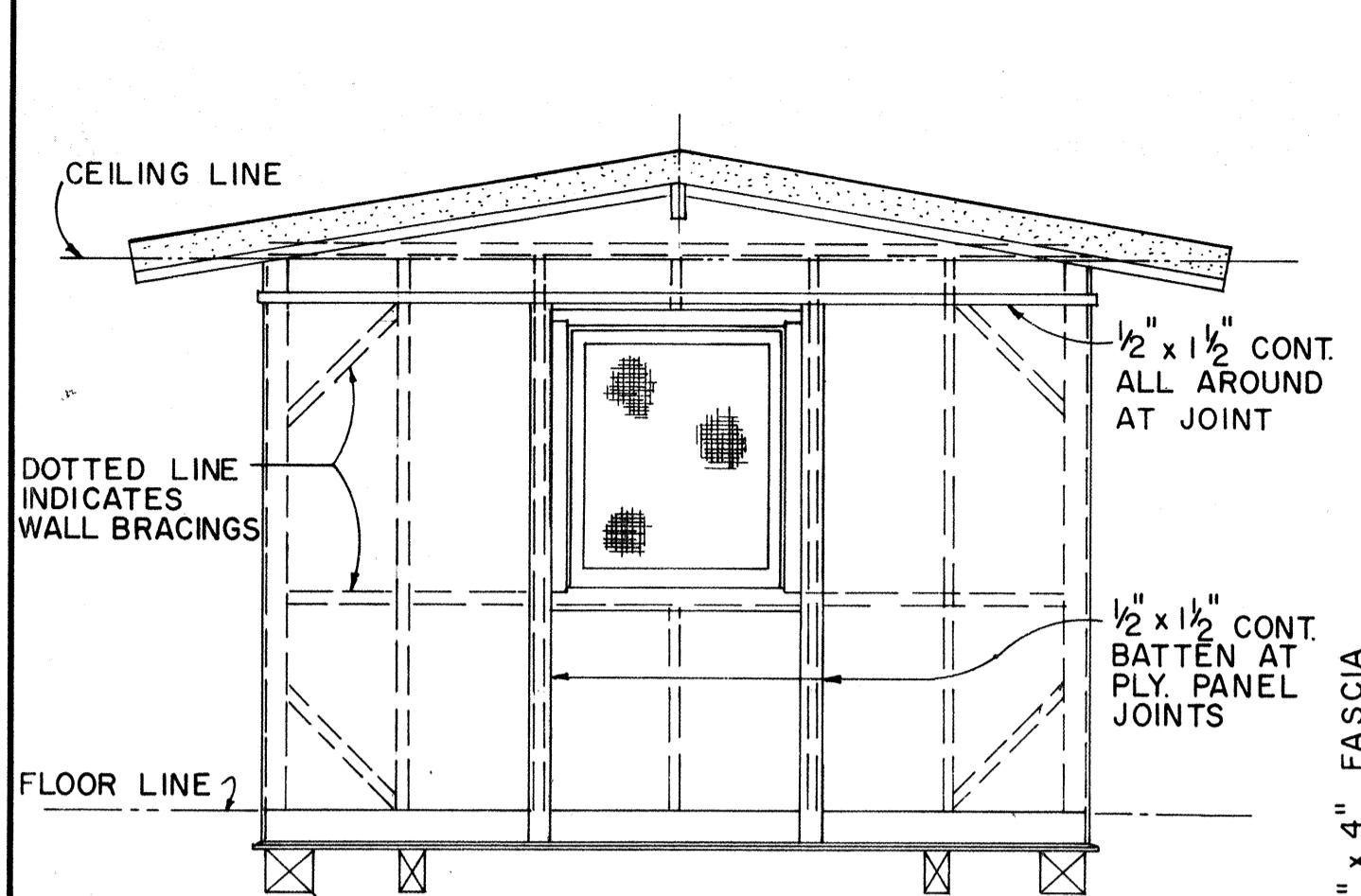


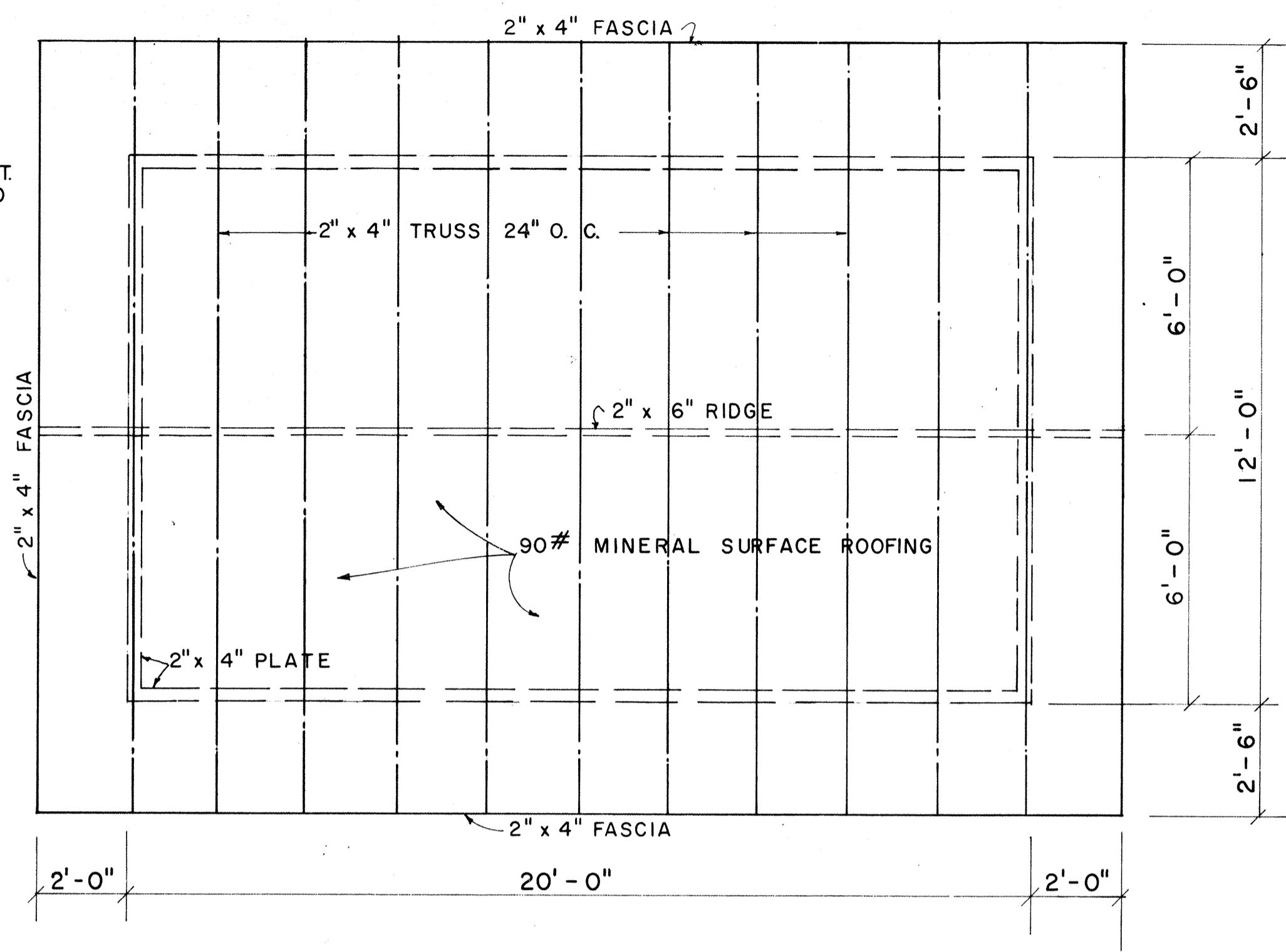
STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	98GOI-7	1971	43	62



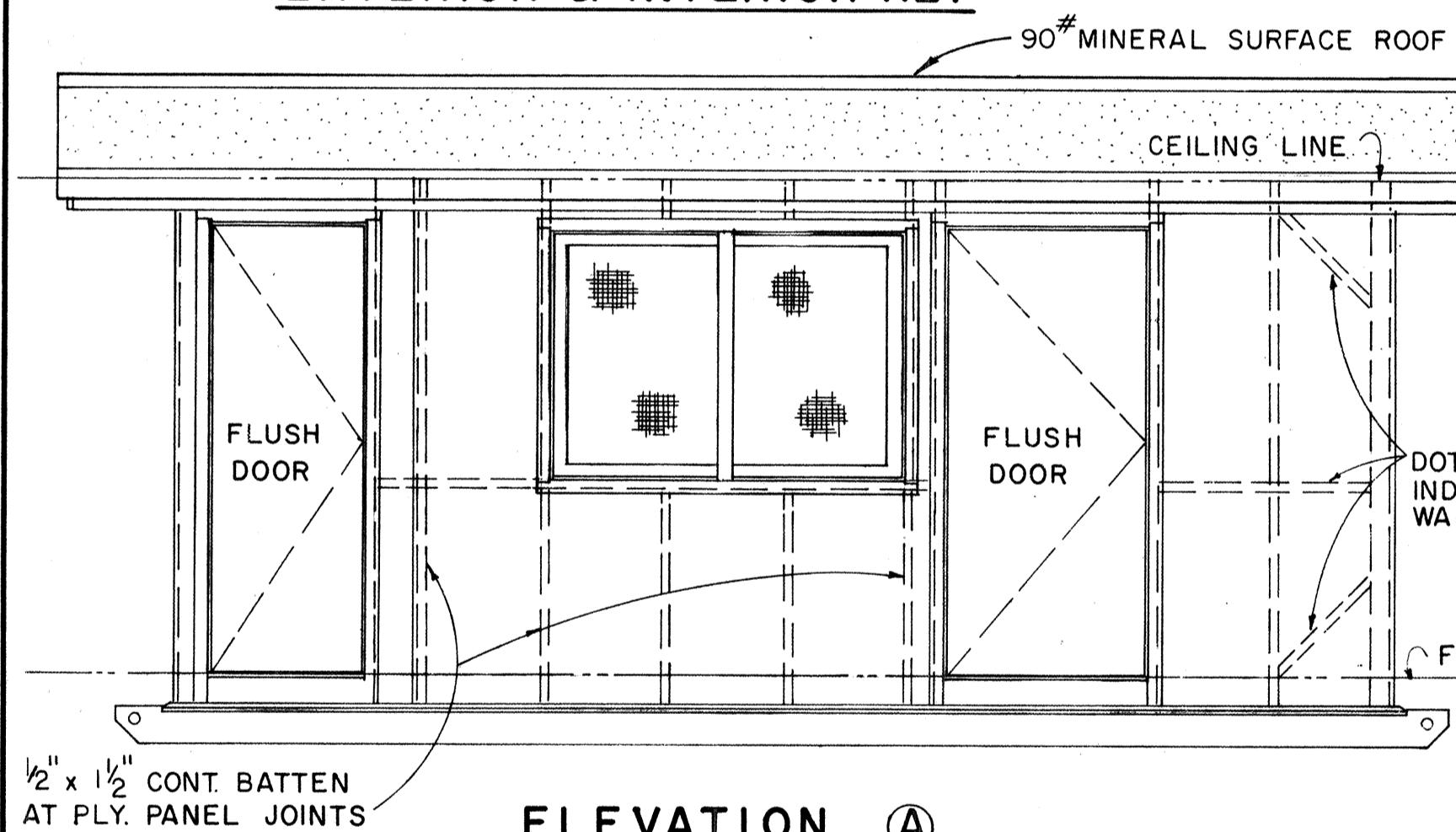
ELEVATION B
ELEVATION D SIMILAR
SCALE: $\frac{3}{8}$ " = 1'-0"

C
B
D
A
B
D
C
I
A

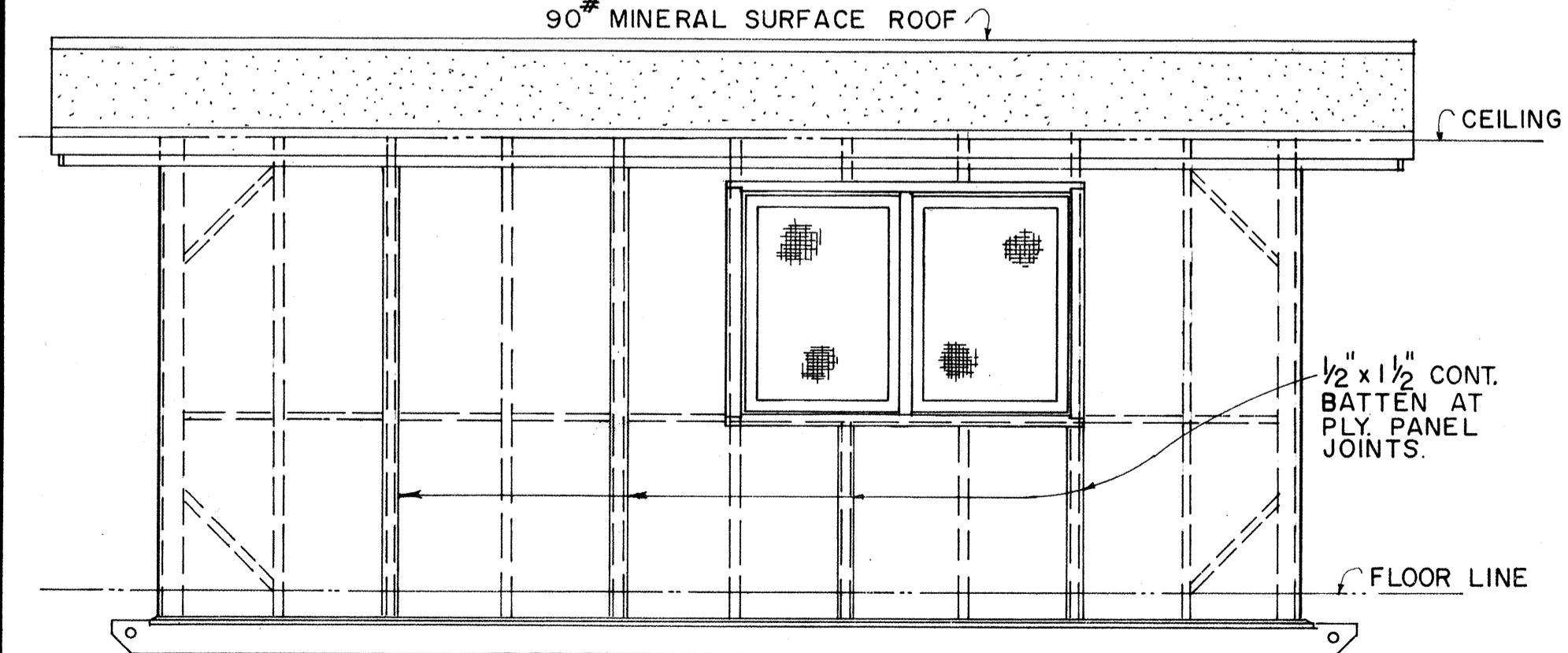
EXTERIOR & INTERIOR KEY



ROOF FRAMING PLAN
SCALE: $\frac{3}{8}$ " = 1'-0"



ELEVATION A
SCALE: $\frac{3}{8}$ " = 1'-0"

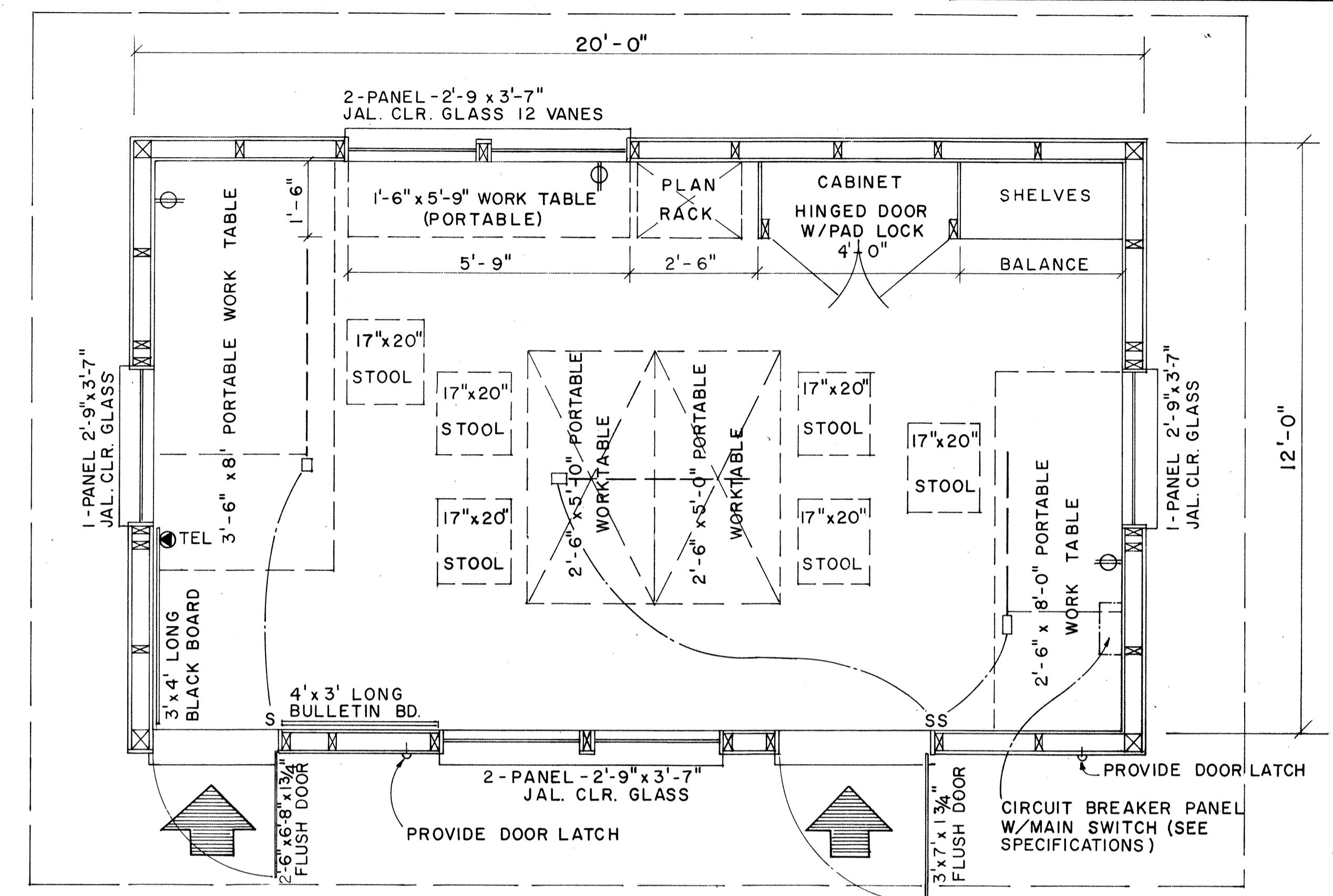


ELEVATION C
SCALE: $\frac{3}{8}$ " = 1'-0"

TYPICAL WALL SECTION

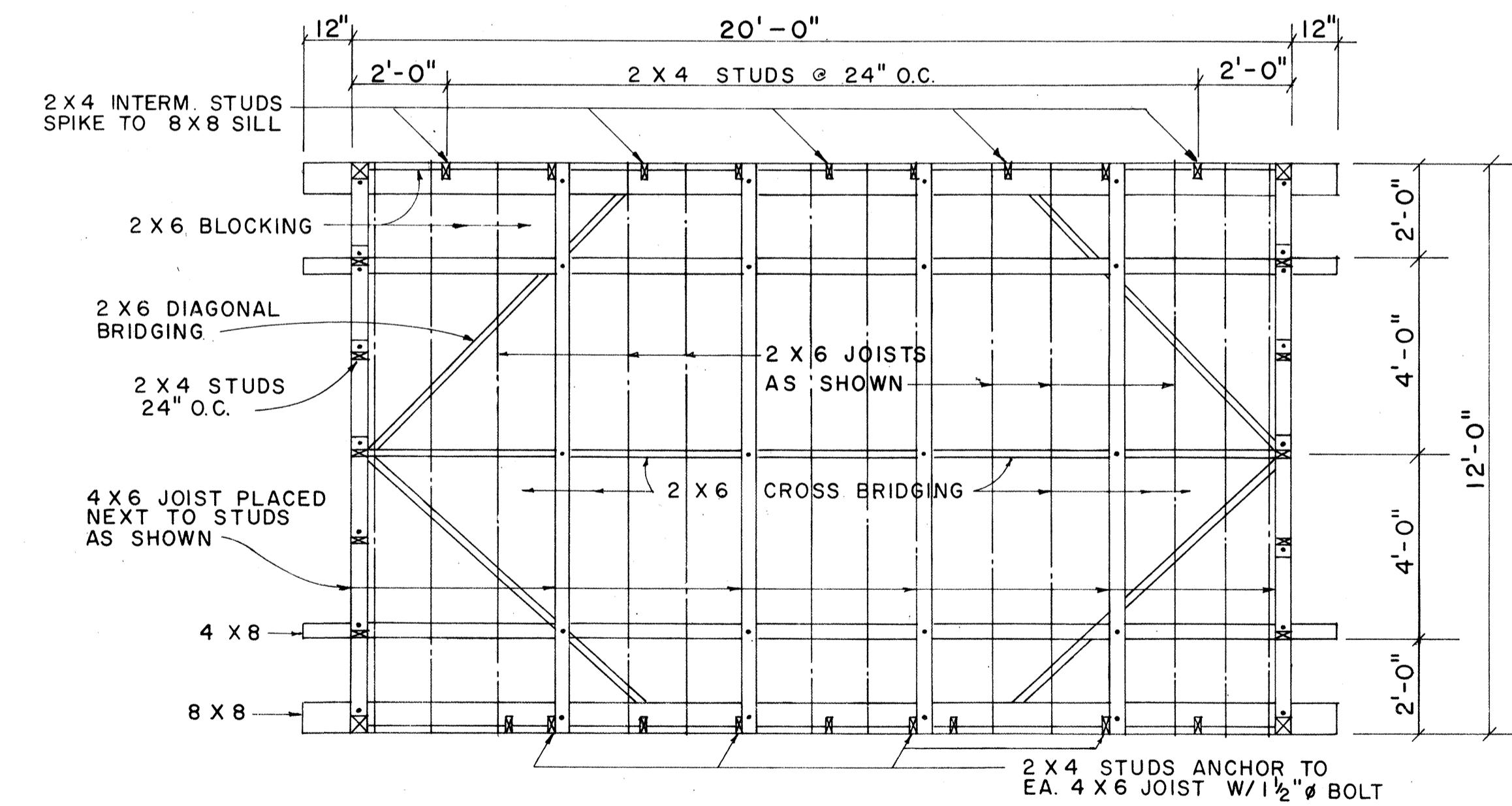
SCALE: $\frac{3}{4}$ " = 1'-0"

APPROVAL RECOMMENDED:
M. Higozawa
HIGHWAY DESIGN ENGINEER
APPROVED:
D. A. S.
ASSISTANT CHIEF, ENGINEERING
DATE 12-10-69



FLOOR PLAN

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



FOUNDATION FRAMING PLAN

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

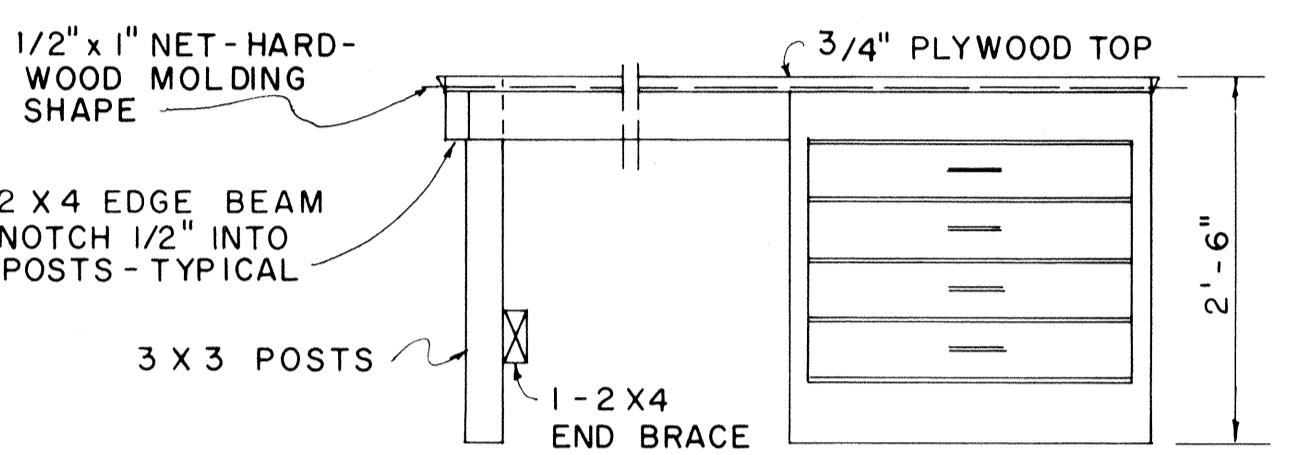
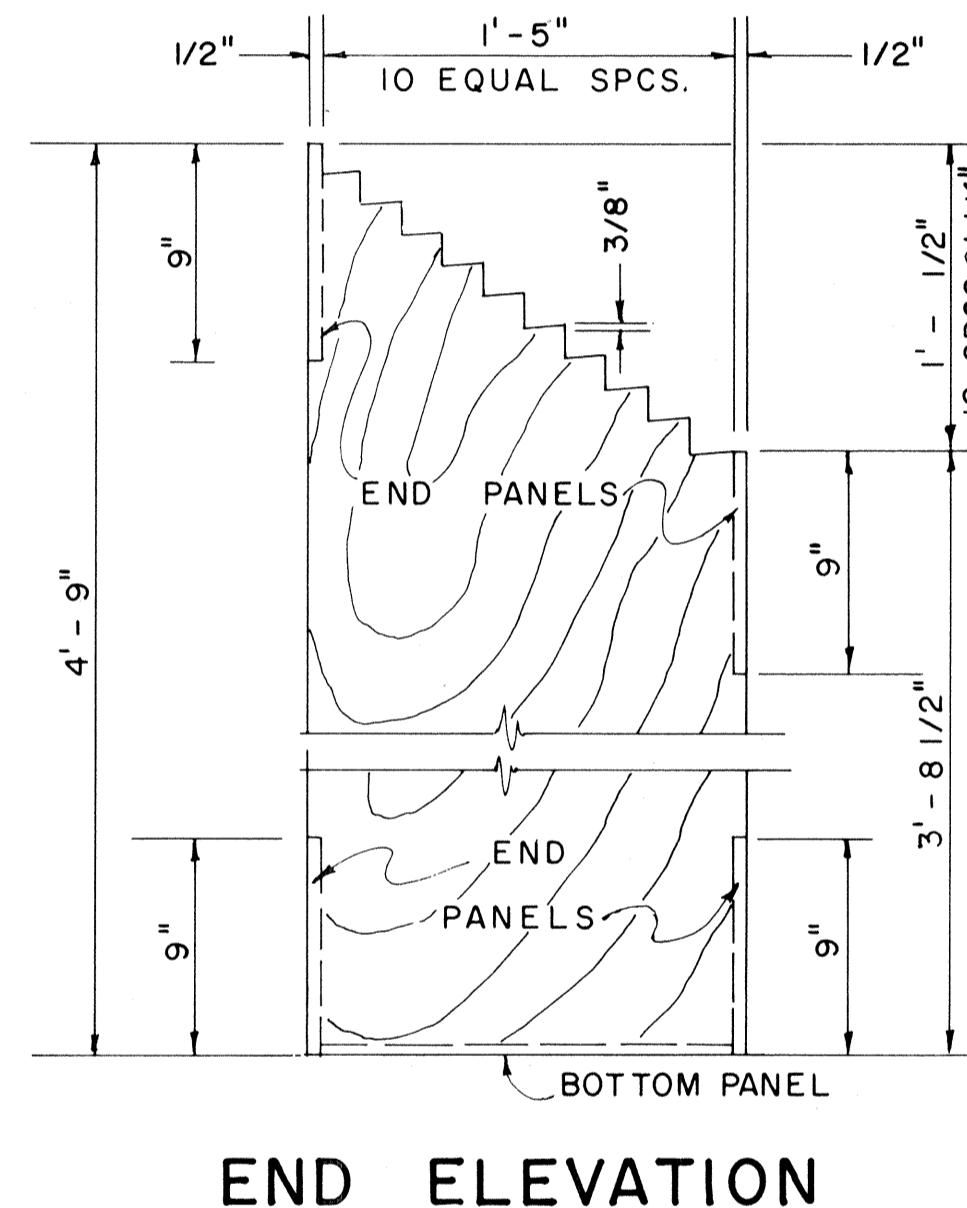
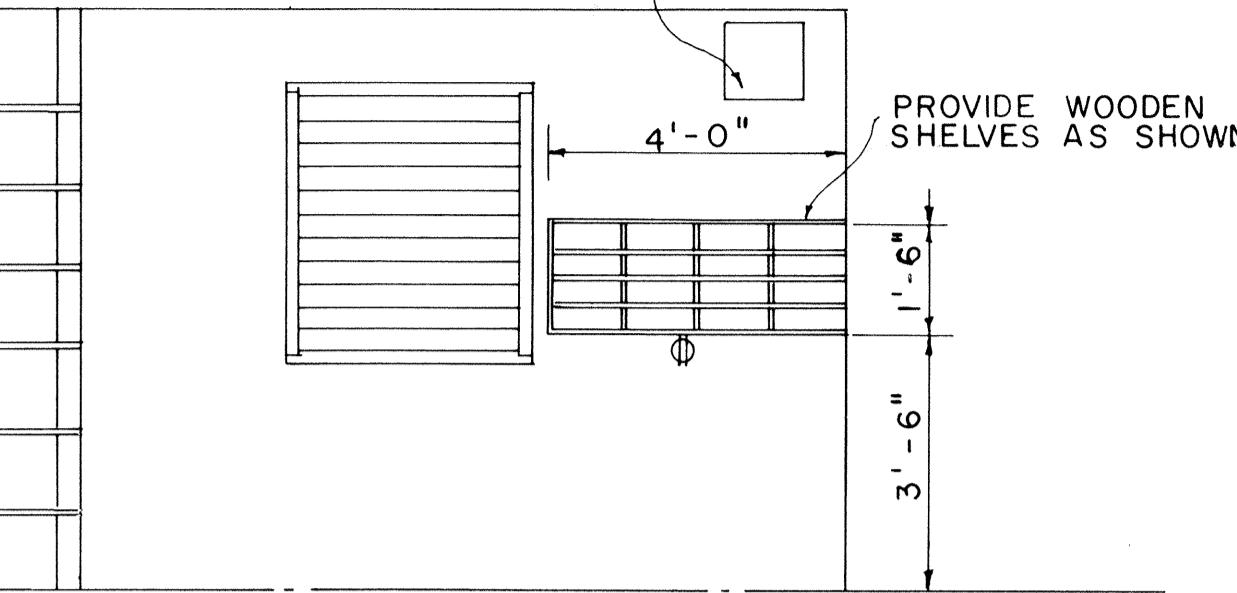
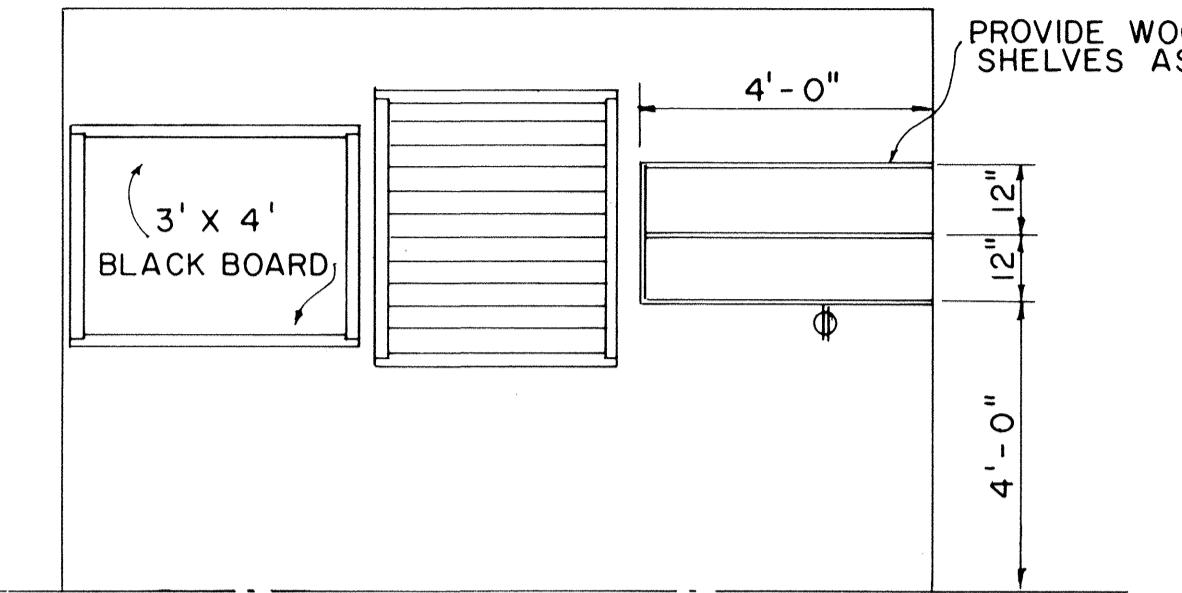
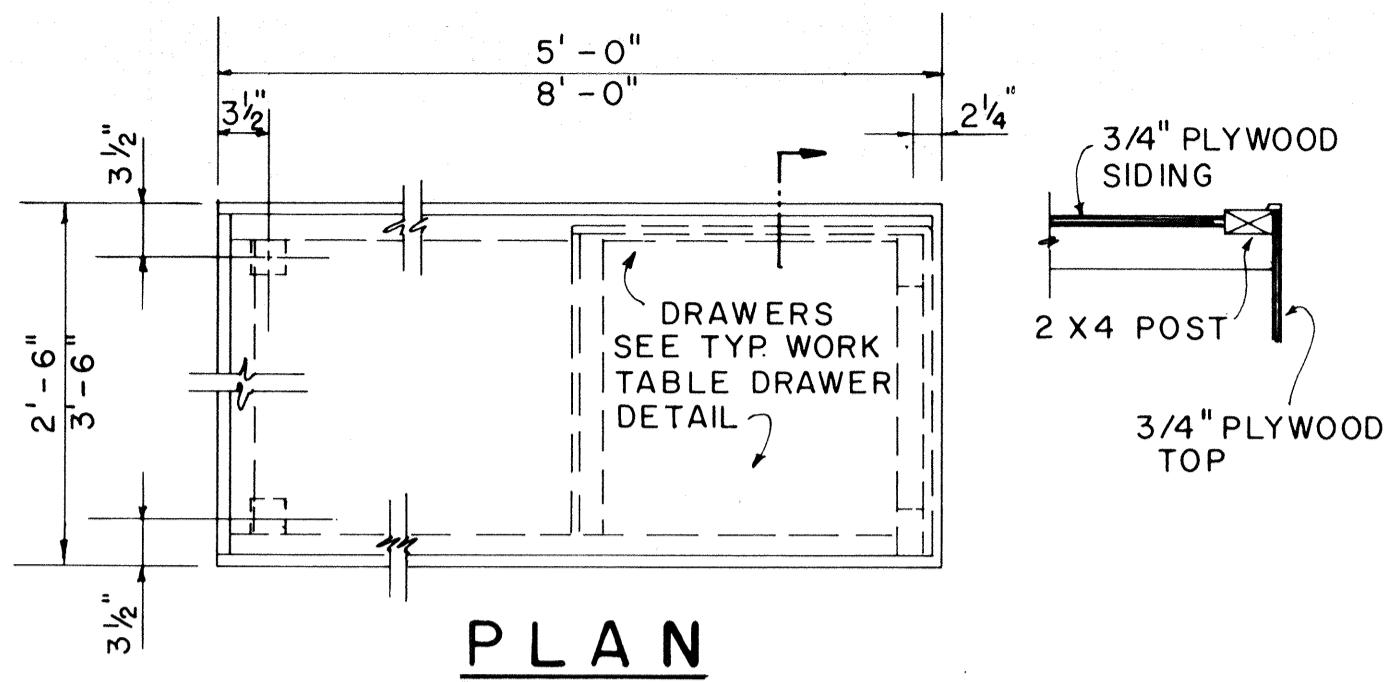
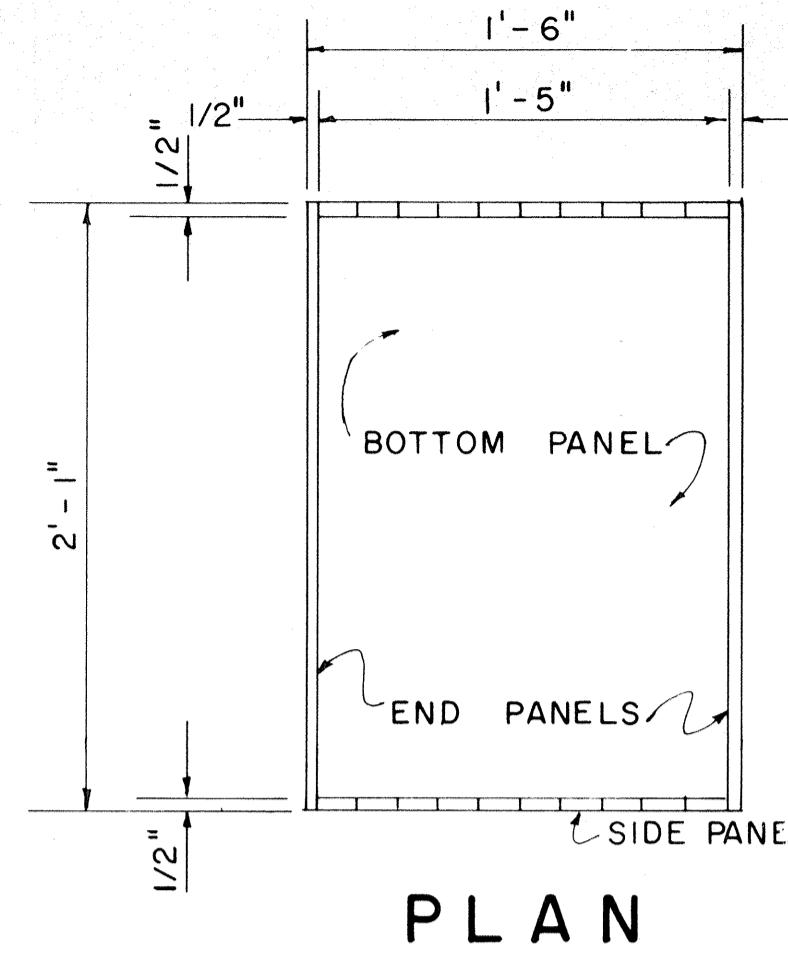
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

FIELD OFFICE

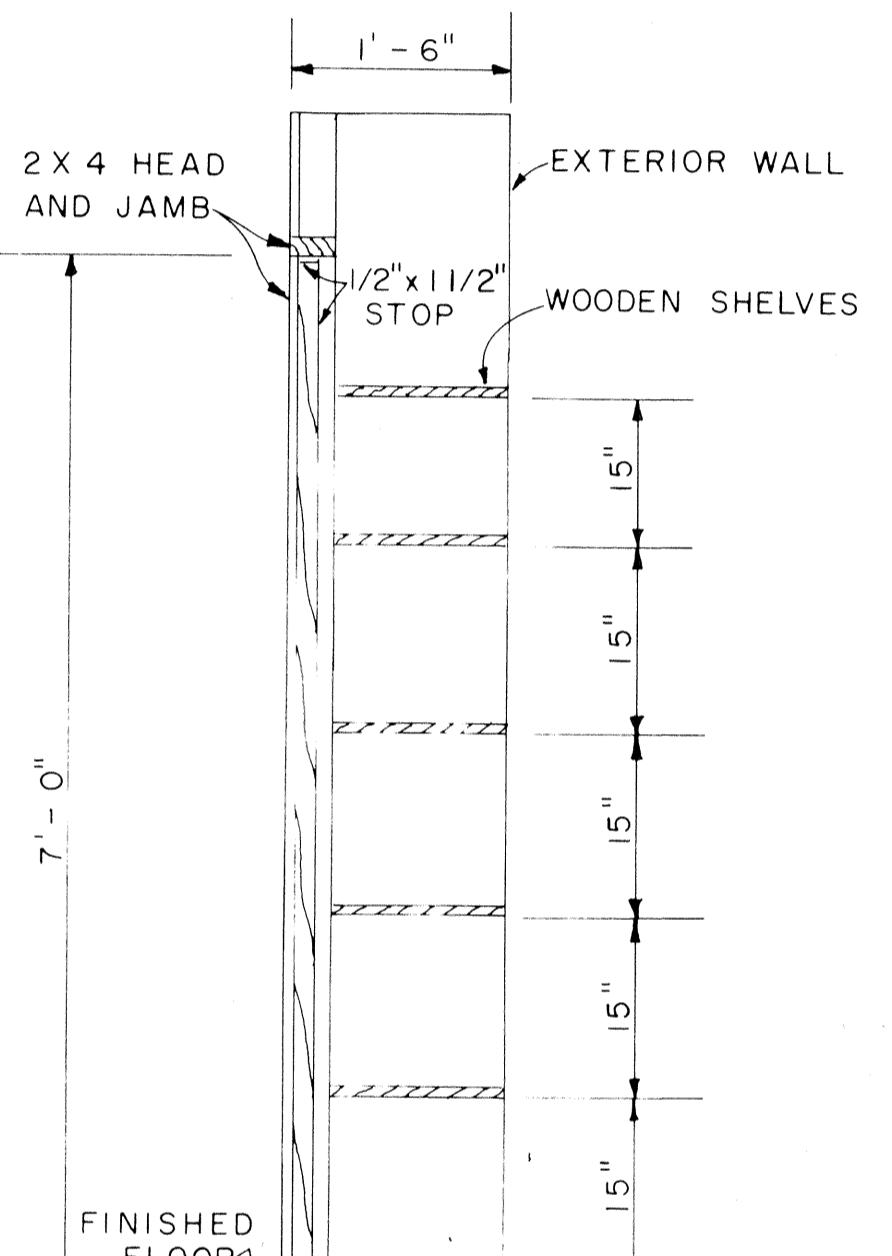
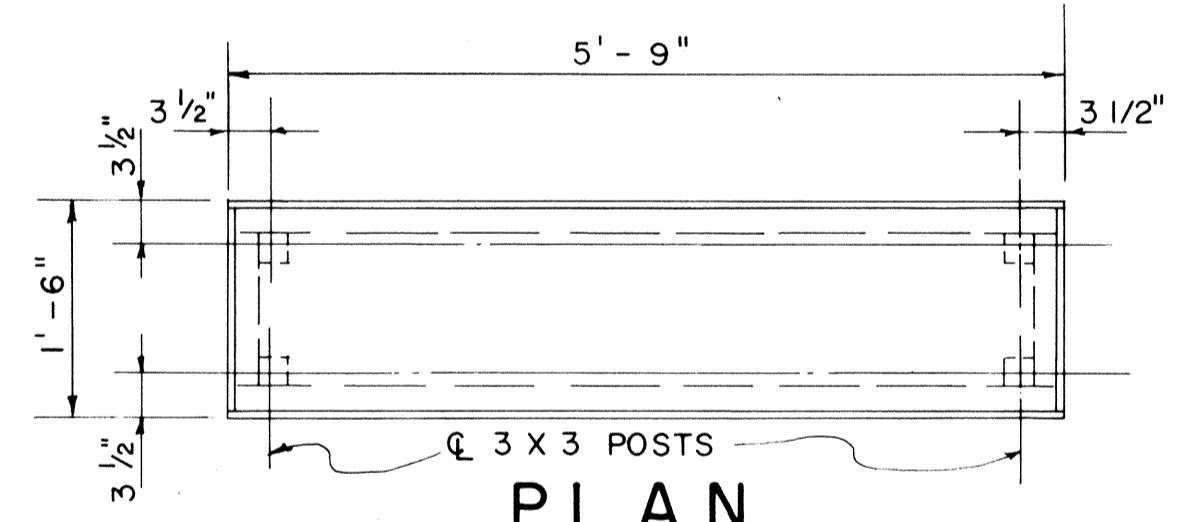
Scale : As Noted
SHEET NO. 1 OF 20 SHEETS DD 636.1

STATE	PROJ. NO.	FISCAL YEAR	HEET NO.	TOTAL SHEETS
HAWAII	1966-71	1971	44	62



PORTABLE WORK TABLE DETAIL

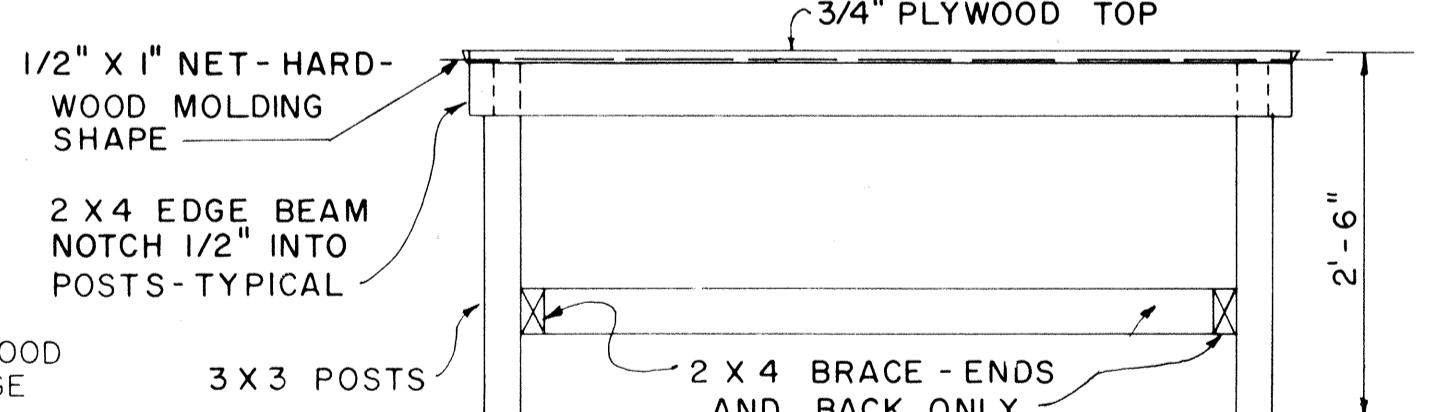
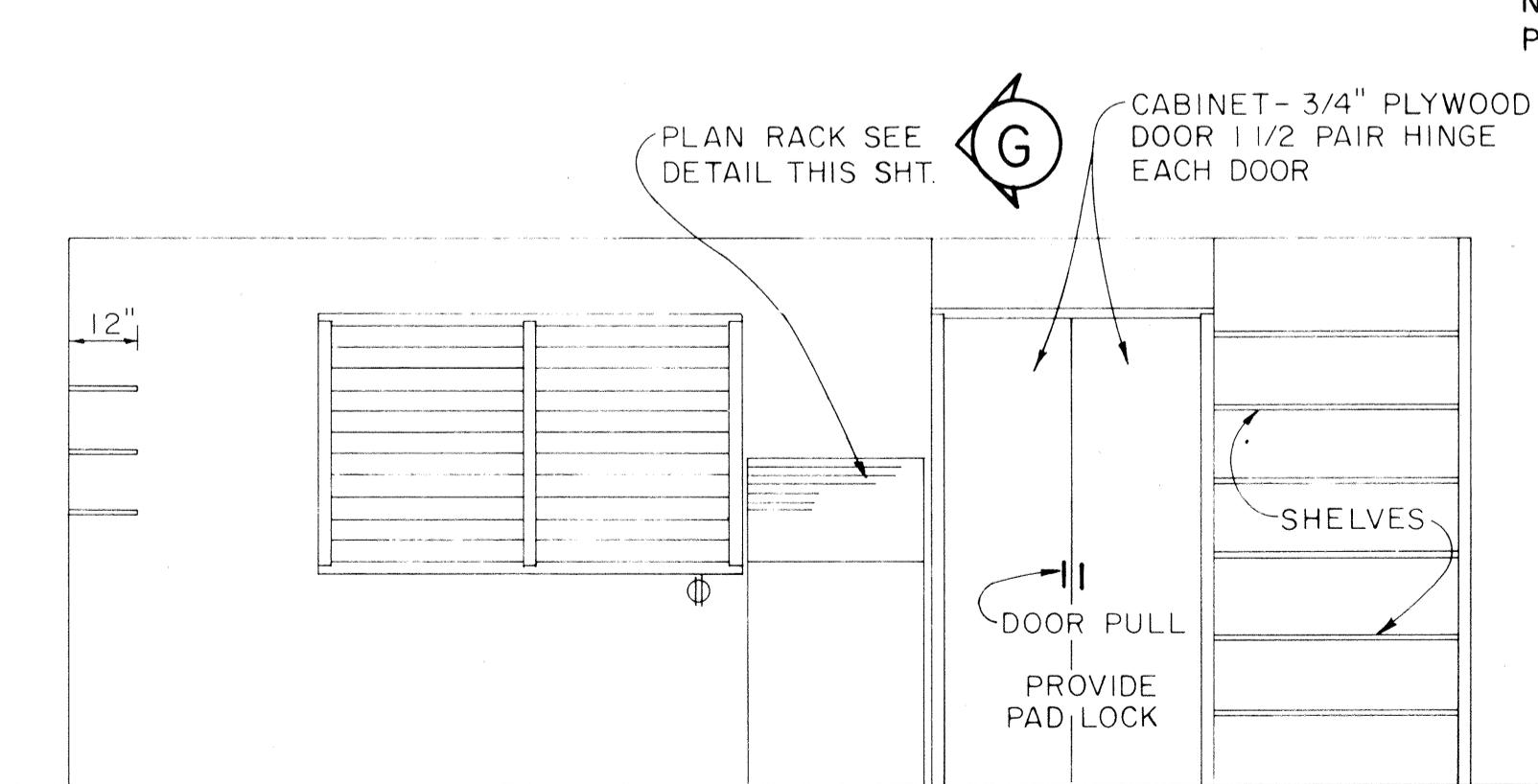
SCALE: 3/4" = 1'-0"



PLAN RACK DETAIL

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

(ONE REQUIRED)



1'-6" x 5'-9" PORTABLE WORK TABLE DETAIL

SCALE: 3/4" = 1'-0"

NO.	REVISION	APPROVED BY	DATE

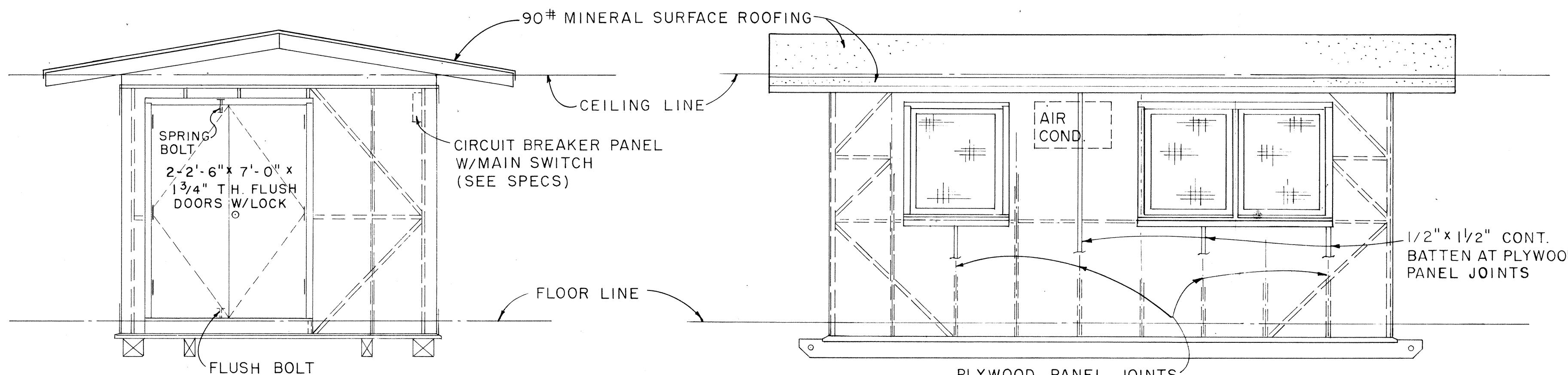
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION			
FIELD OFFICE			
Scale : As Noted			
SHEET No. 2 OF 20 SHEETS DD 636.2			

APPROVAL RECOMMENDED:
John F. Hooper
HIGHWAY DESIGN ENGINEER
12-4-69 DATE

APPROVED:
John F. Hooper
ASSISTANT CHIEF, ENGINEERING
12-10-69 DATE

DATE

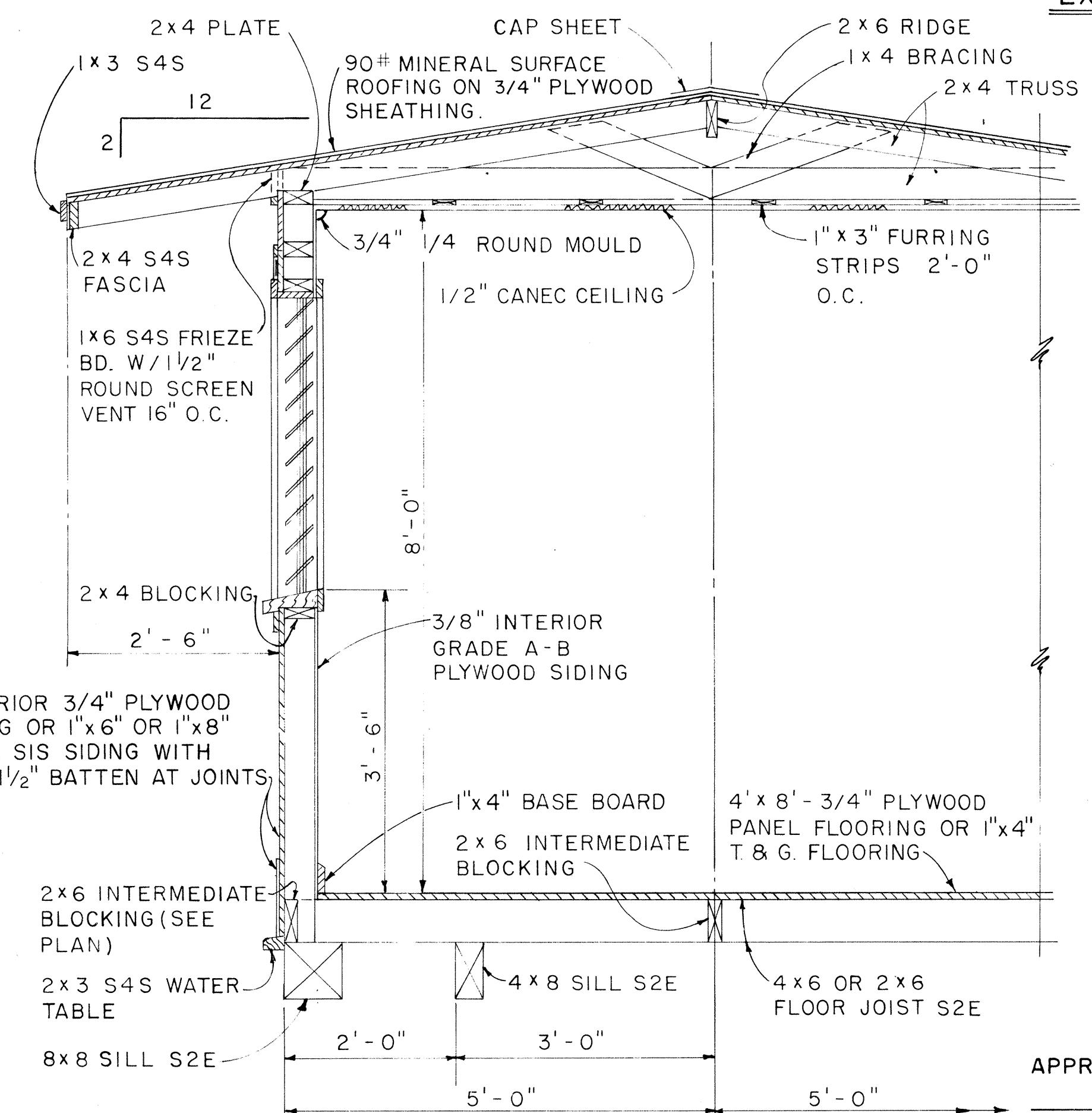
DATE



ELEVATION A

SCALE: 3/8" = 1' - 0"

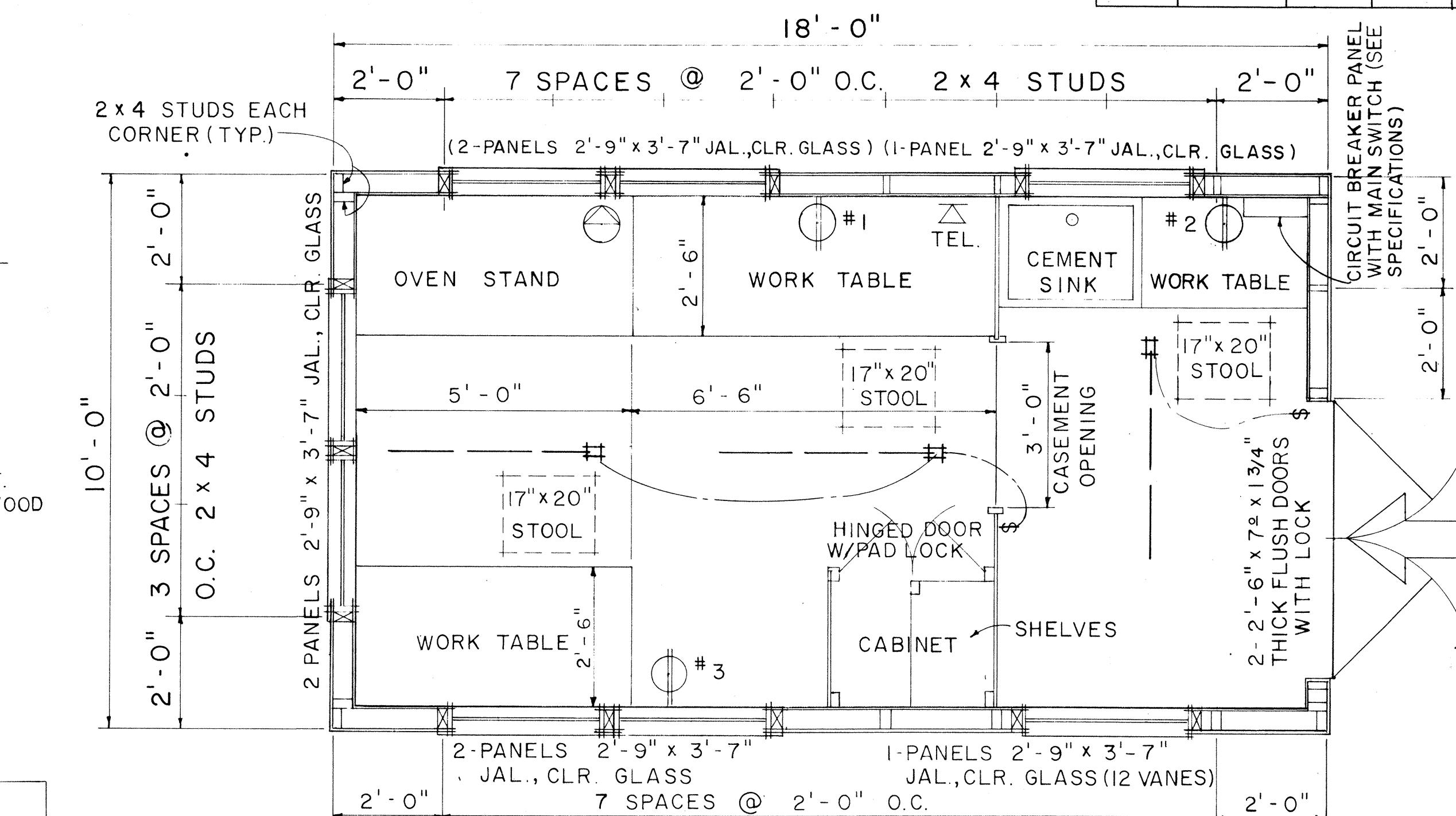
I-LAYER 30# ASPHALT FELT SHALL BE PLACED BETWEEN ROOFING AND SHEATHING.



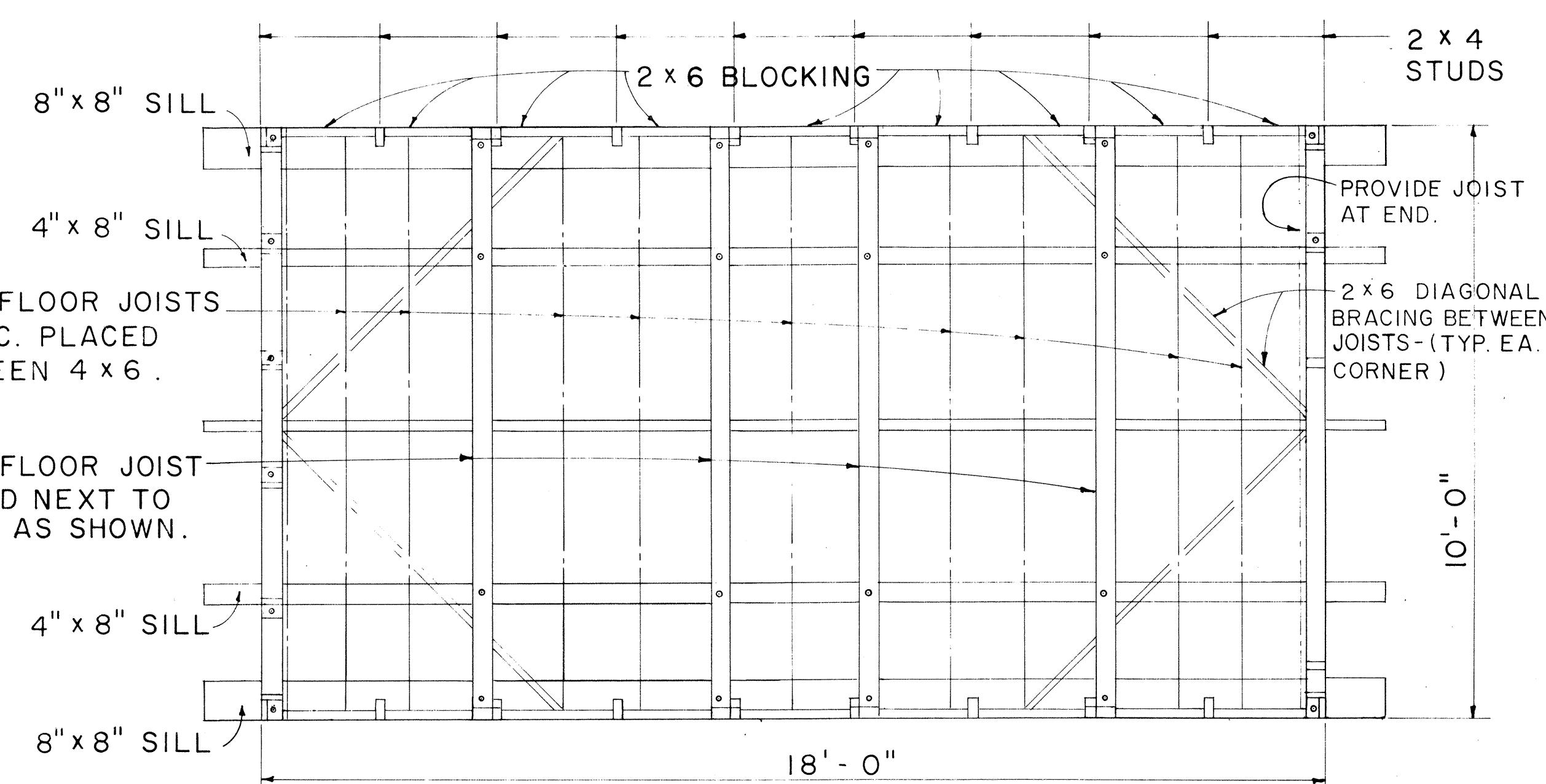
NOTE:
ALL 3/4" PLYWOOD SHALL BE EXTERIOR GRADE A-C OR BETTER.

TYPICAL SECTION

SCALE: 3/4" = 1' - 0"



- NOTE:
1. FLUORESCENT FIXTURE SHALL BE 48", 2 LAMP, 40 WATT, RAPID START.
 2. TELEPHONE AND WALL OUTLET 4'-0" ABOVE FLOOR.



NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

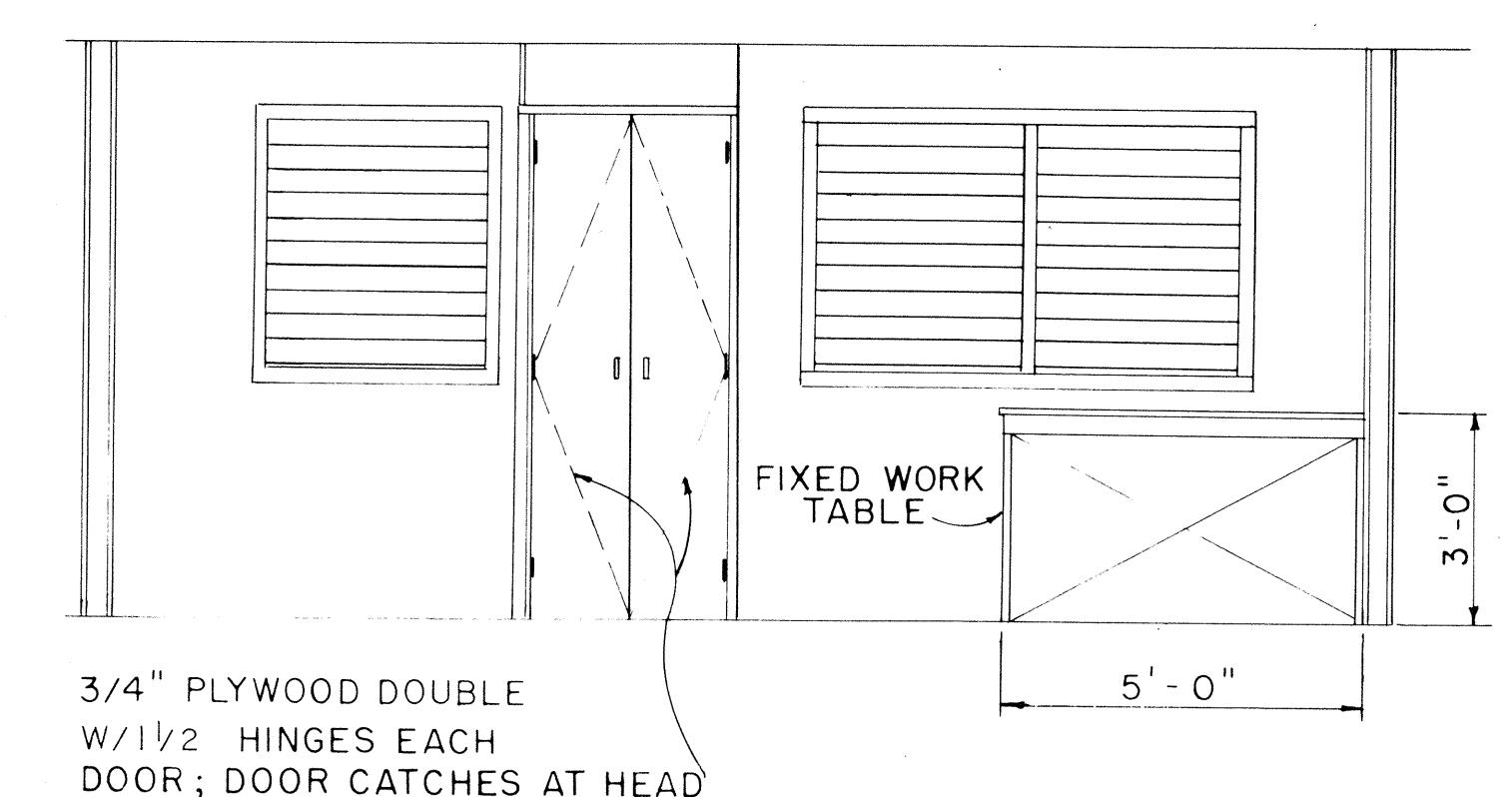
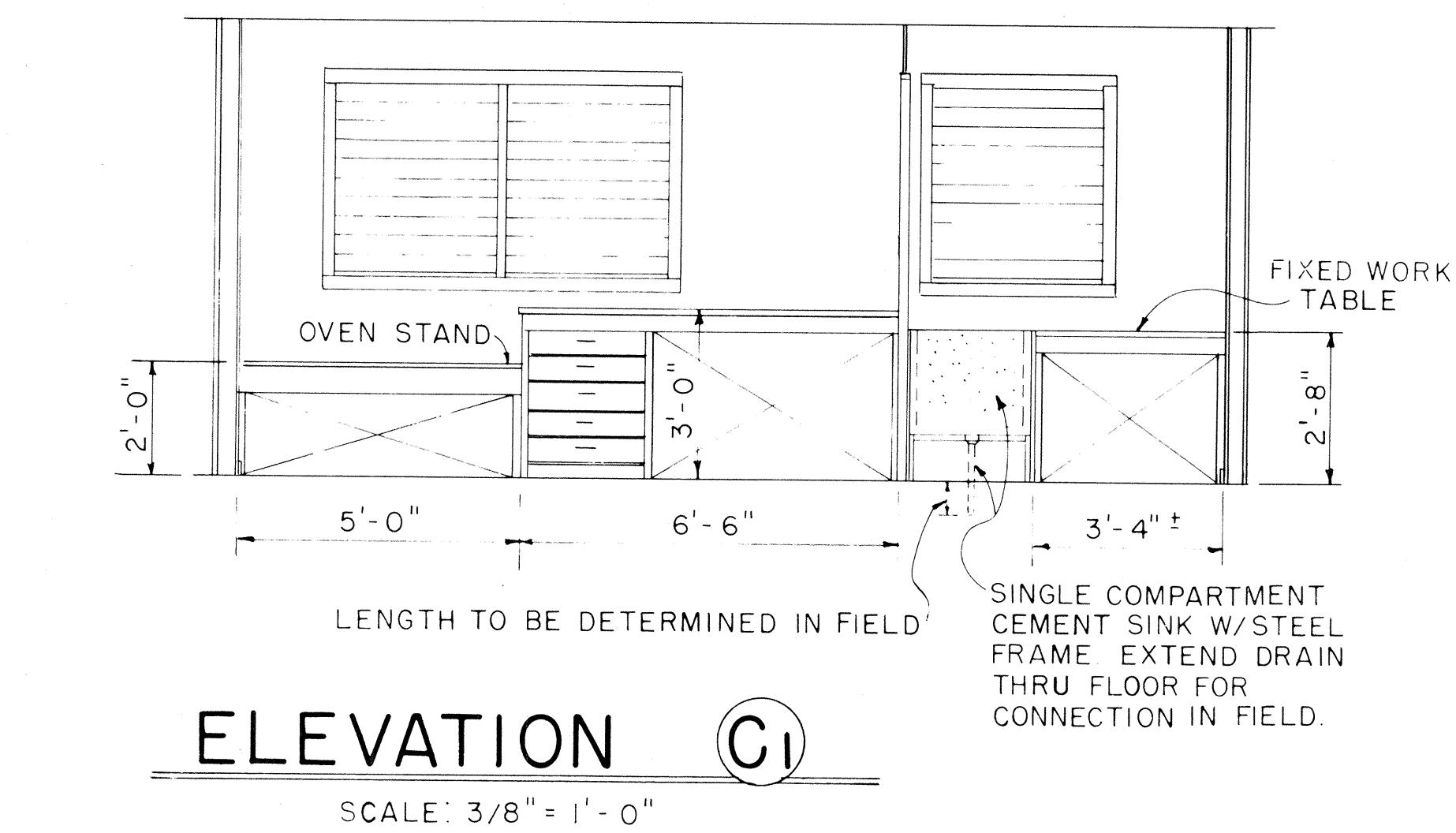
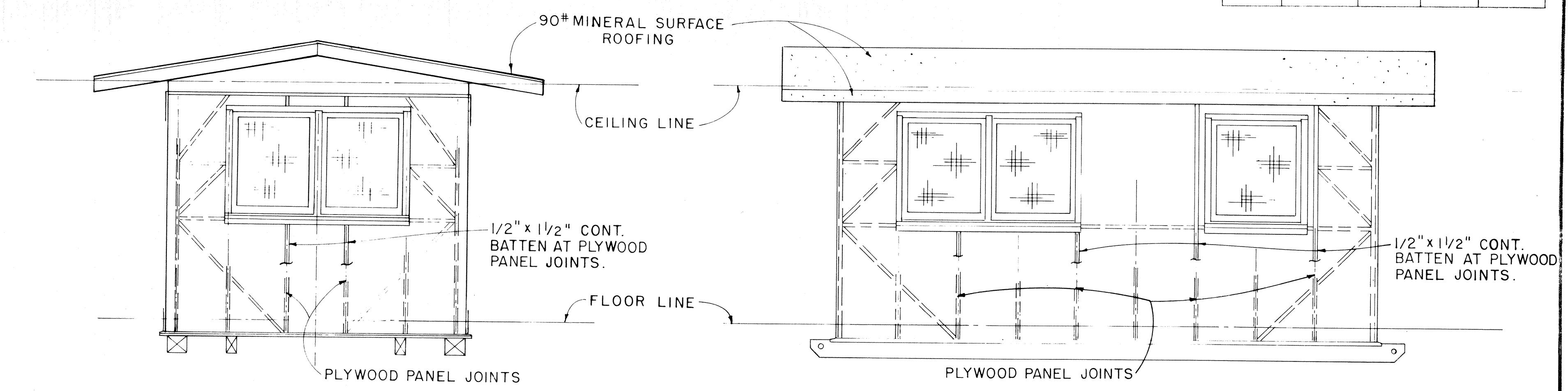
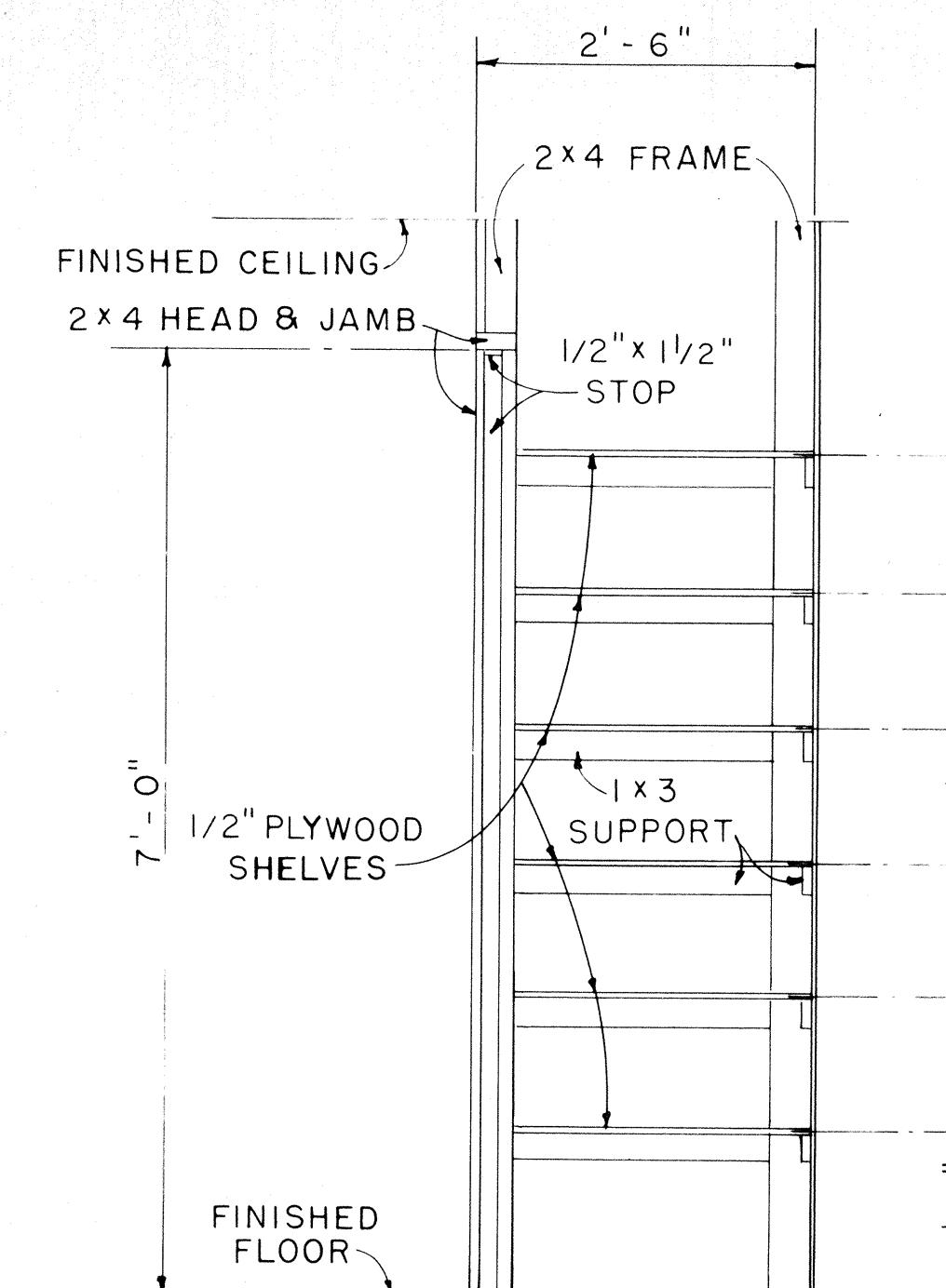
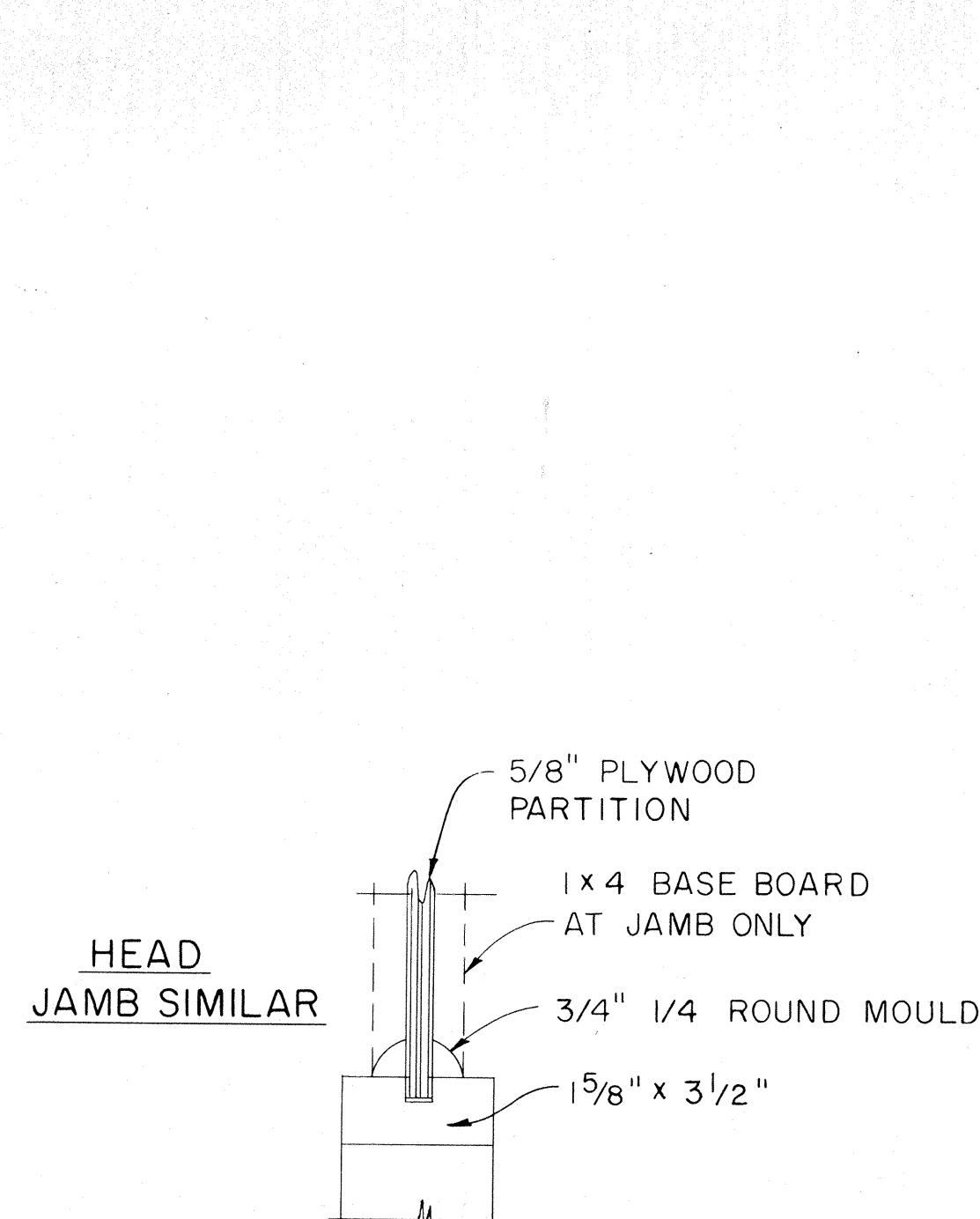
PROJECT SITE LABORATORY

Scale: As Noted

SHEET No. 3 OF 20 SHEETS DD 636.3

APPROVAL RECOMMENDED:
12-4-69
HIGHWAY DESIGN ENGINEER
APPROVED:
ASSISTANT CHIEF, ENGINEERING
12-10-69
DATE

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	PB60-01-71	1971	46	62



ORIGINAL PLAN	REVISION	APPROVED BY	DATE
NOTE BOOK			
TRACED BY			
DESIGNED BY			
CHECKED BY			
DATE			

APPROVAL RECOMMENDED:
John J. Foy, Jr.
HIGHWAY DESIGN ENGINEER

DATE
12-4-69

APPROVED:
John J. Foy, Jr.
ASSISTANT CHIEF, ENGINEERING

DATE
12-10-69

NO.	REVISION	APPROVED BY	DATE

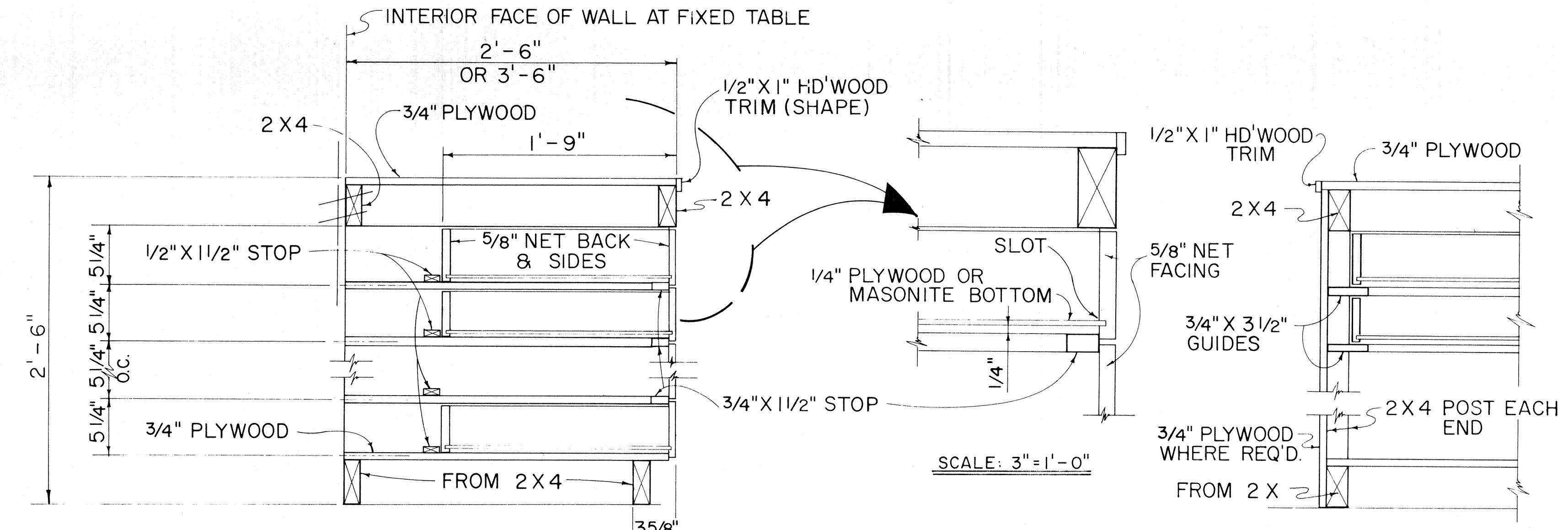
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROJECT SITE LABORATORY

Scale: As Noted

SHEET No. 4 OF 20 SHEETS DD 6364

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	OBG-01-71	1971	47	62



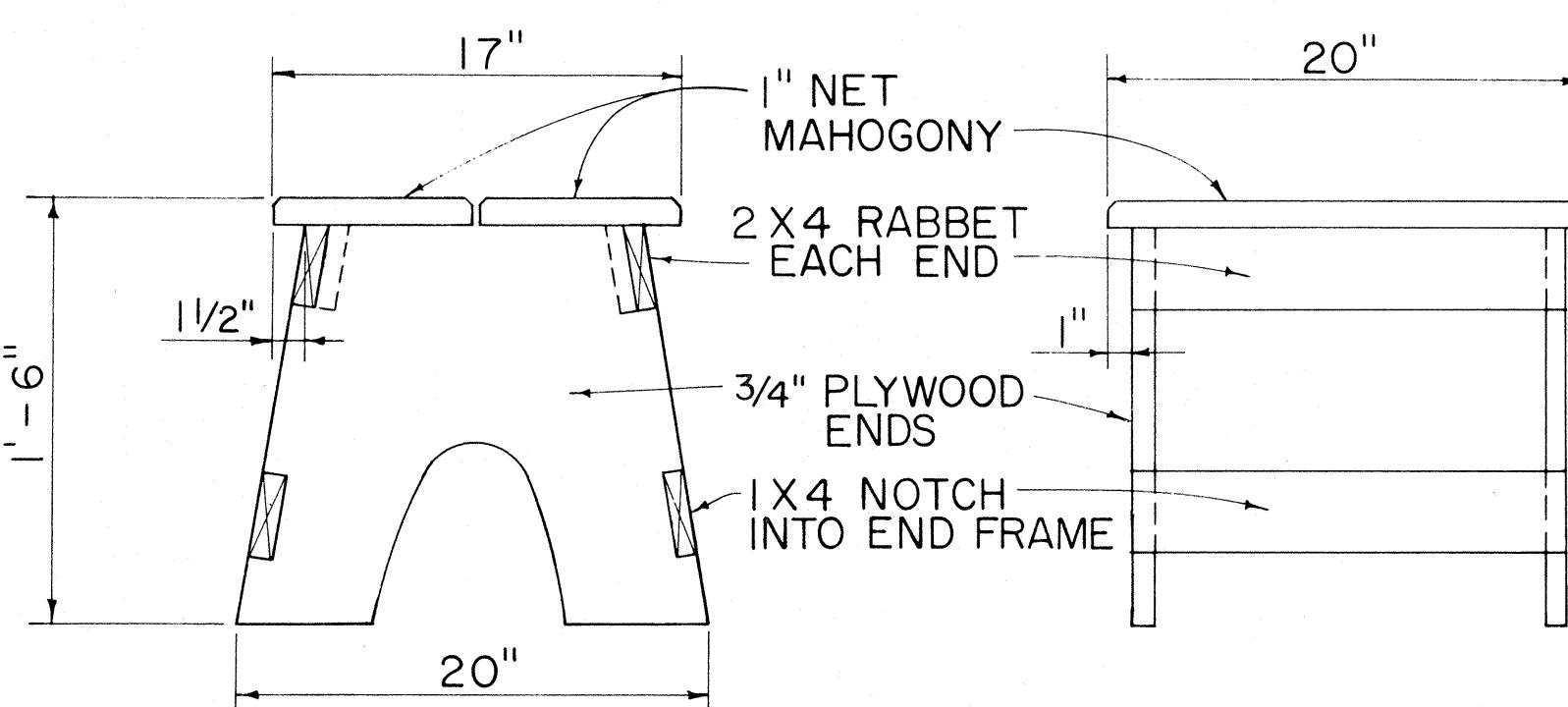
CROSS SECTION

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

END SECTION

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

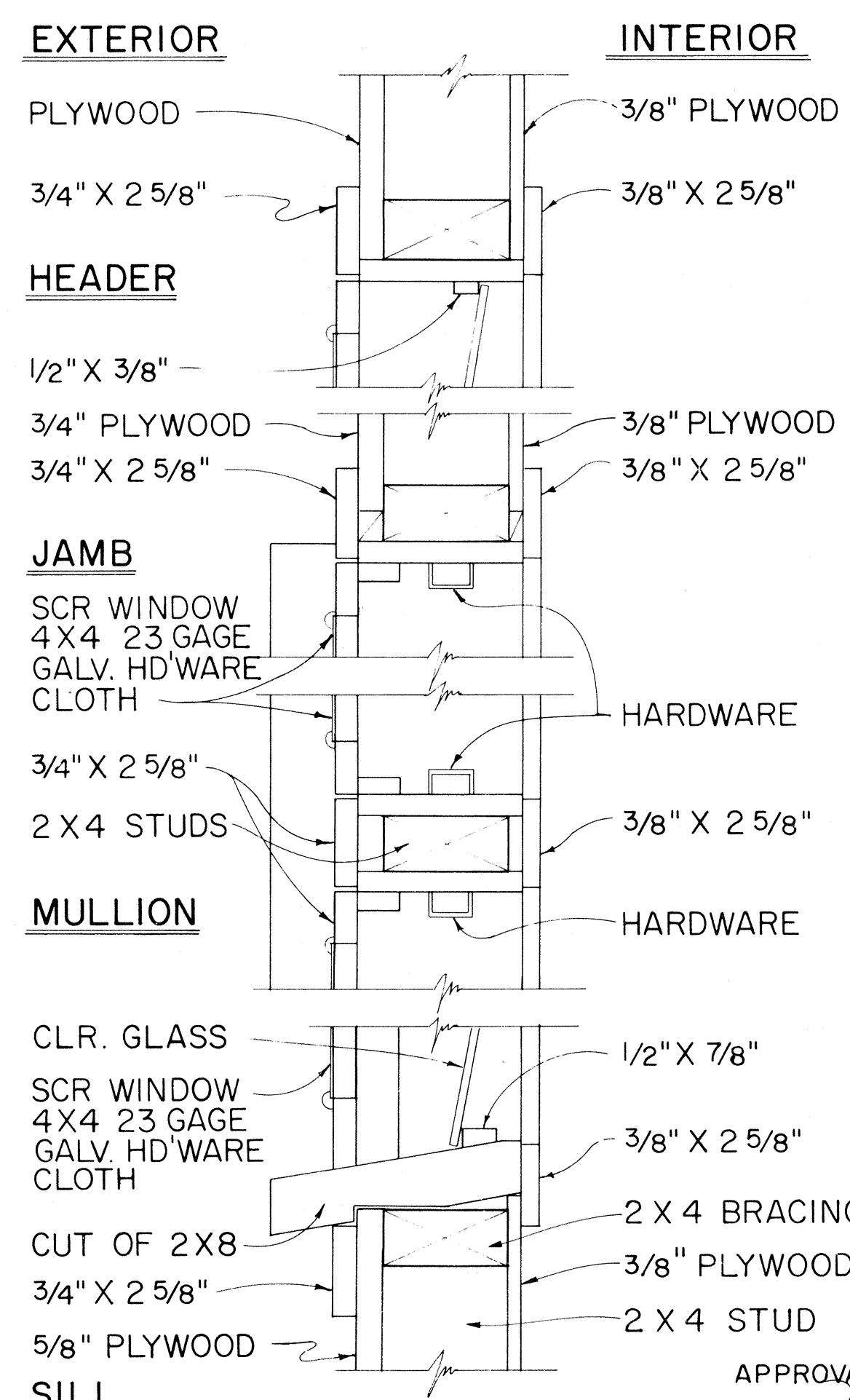
TYPICAL WORK TABLE DRAWER DETAIL



TYPICAL STOOL DETAIL

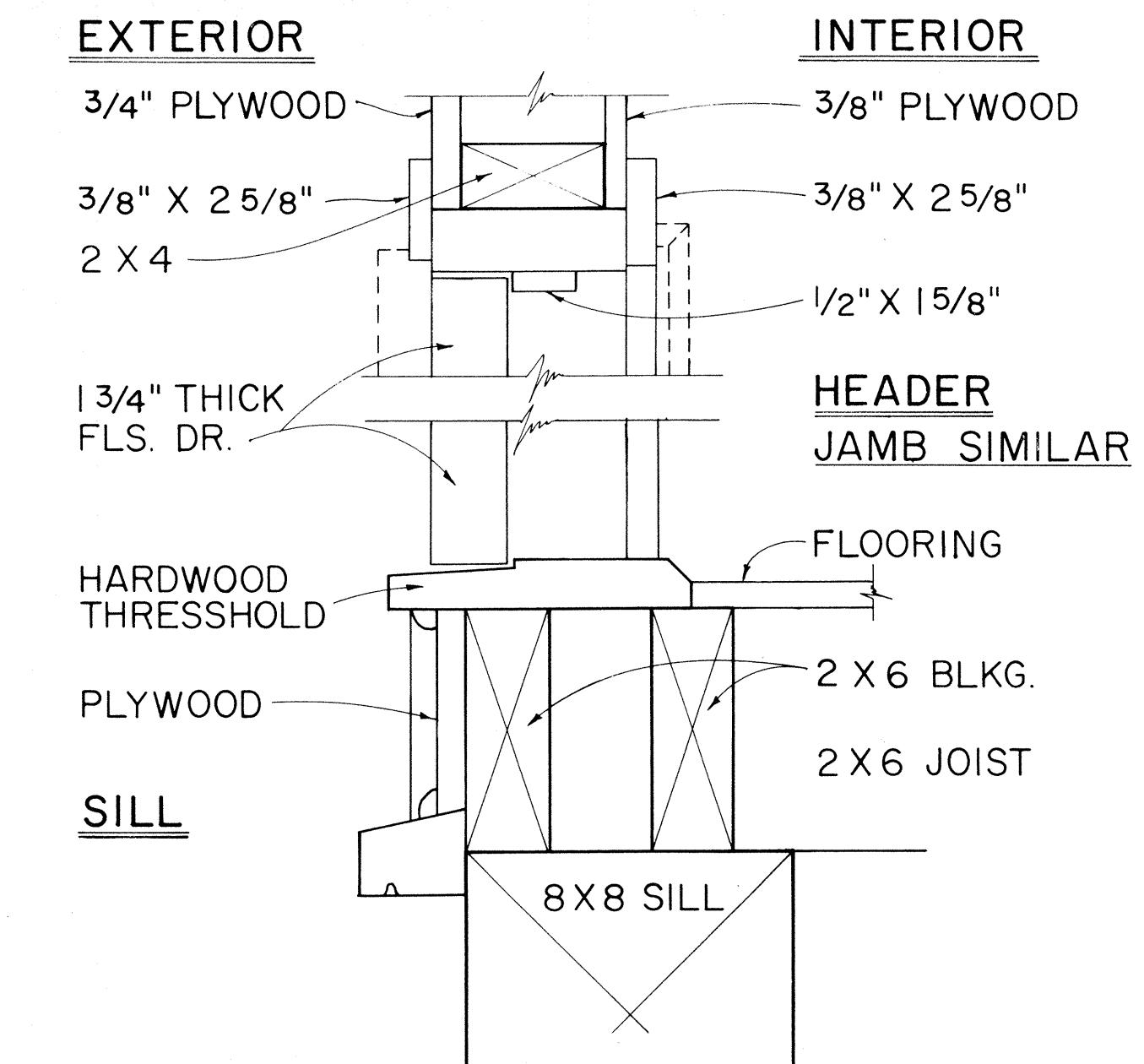
SCALE: 1 1/2" = 1'-0"

NOTE: CONTRACTOR MAY WITH THE APPROVAL OF THE ENGINEER FURNISH THE FIELD OFFICE OR PROJECT SITE LABORATORY WITH STOOLS OTHER THAN THE TYPE SHOWN IN THE DETAIL.



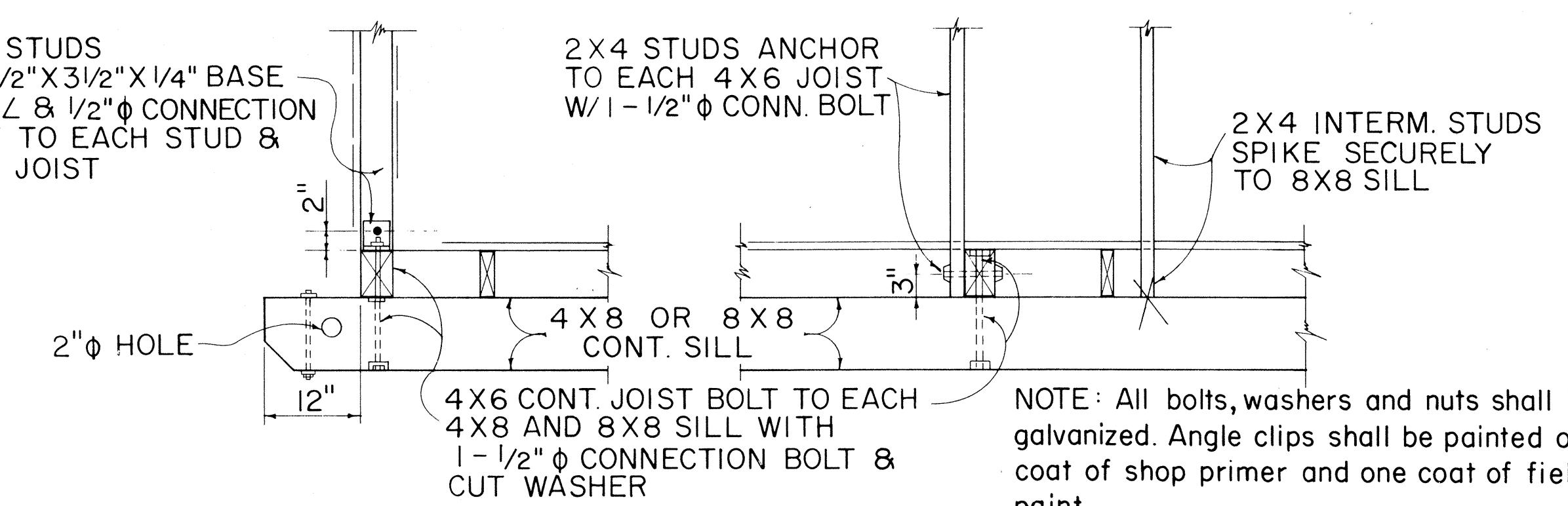
TYPICAL DETAIL
JALOUSIES WINDOWS

SCALE: 3" = 1'-0"



TYP. SWING OUT DOOR

TYPICAL SINGLE OR DOUBLE EXTERIOR DOOR DETAIL



AT ENDS OF BLDG.

ALONG SIDES OF BLDG.

TYPICAL 2X4 STUD & 4X6 FLOOR JOIST BASE CONNECTION DETAILS

NO.	REVISION	APPROVED BY	DATE

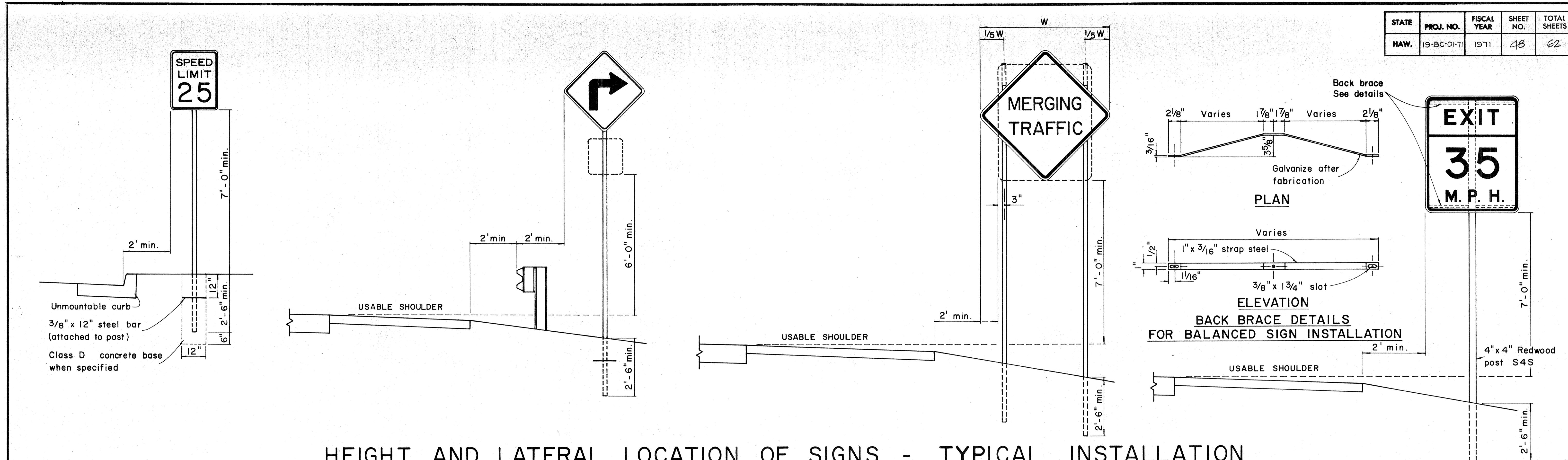
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
FIELD OFFICE
8
PROJECT SITE LABORATORY
Scale As Noted

SHEET No. 5 OF 20 SHEETS DD 636.5

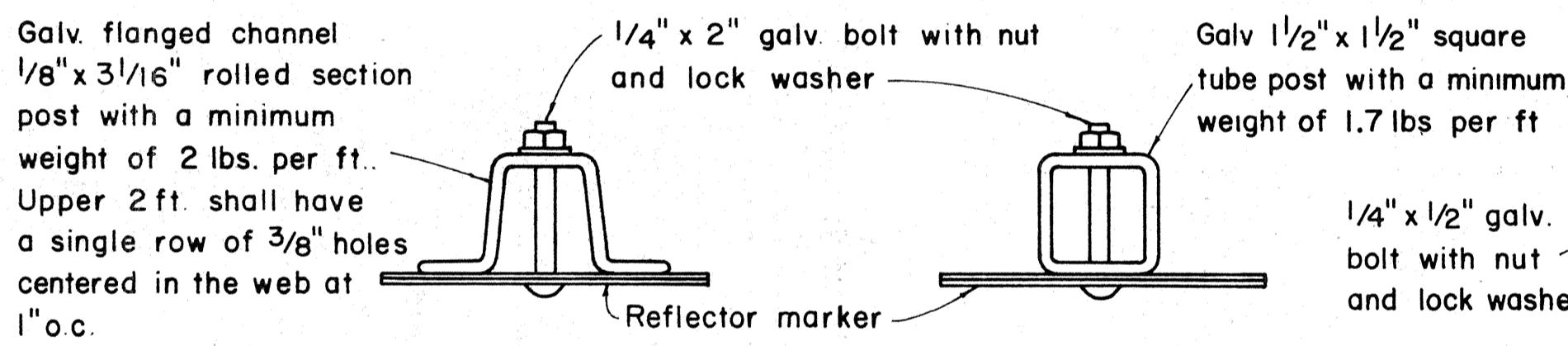
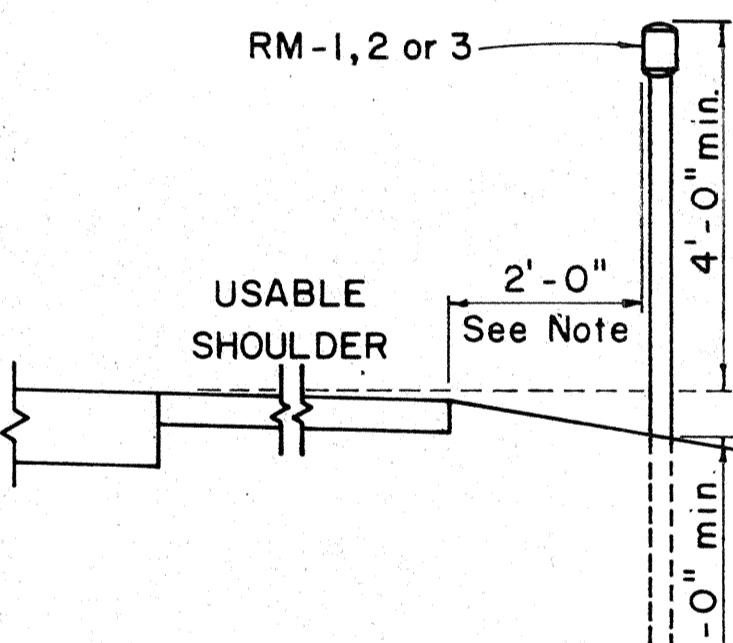
ORIGIN	STANLEY P. TAYLOR, P.E.	DATE
PLAN	WALLS	
NOTE	WALLS	
No.		

APPROVAL RECOMMENDED:
M. J. Hayes
HIGHWAY DESIGN ENGINEER
APPROVED:
D. S. Dole
ASSISTANT CHIEF, ENGINEERING
DATE 12-4-69
DATE 12-10-69

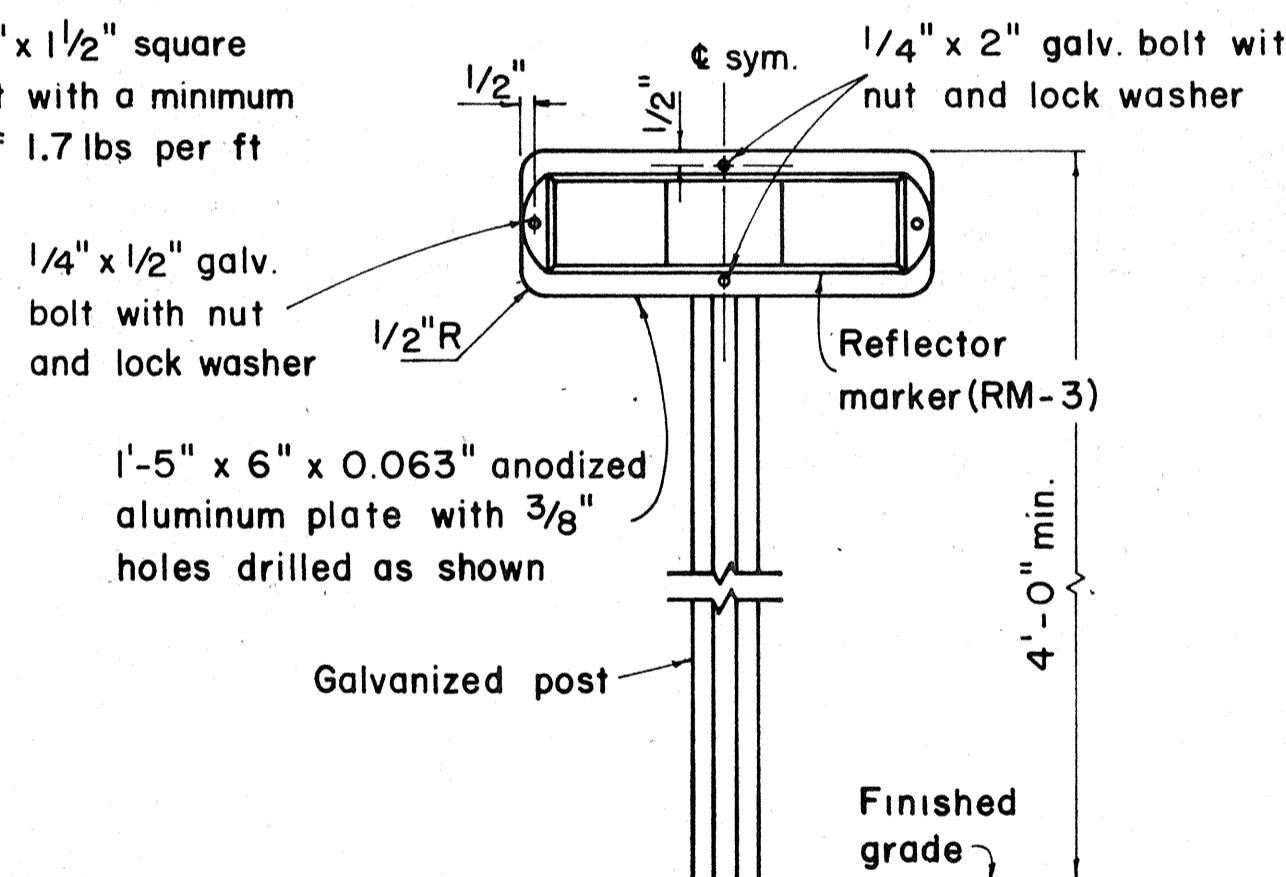
STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	19-BC-01-11	1971	48	62



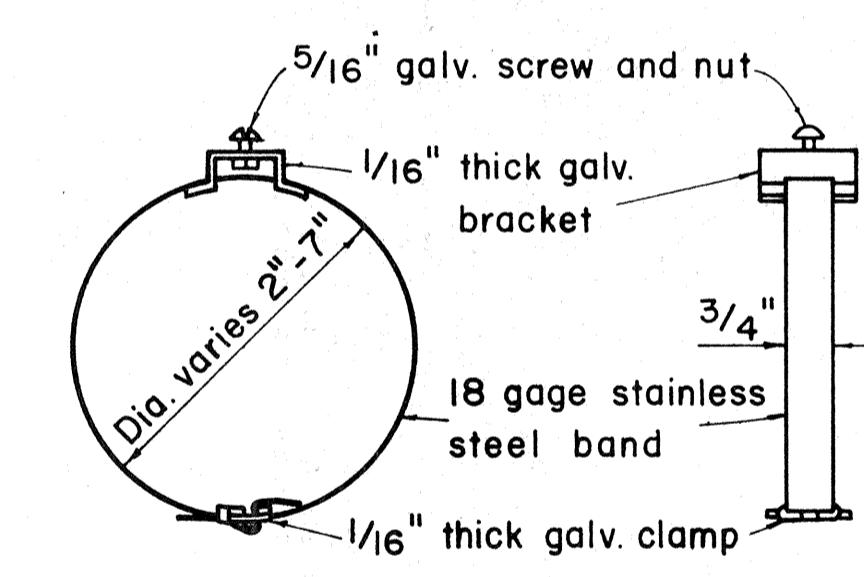
HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATION



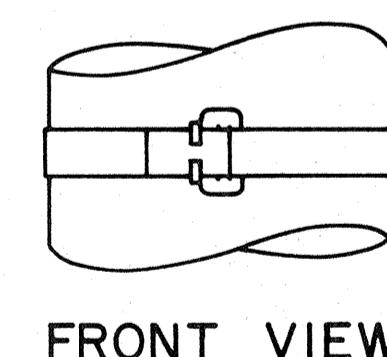
ROAD DELINEATOR



TYPICAL DETAIL
HORIZONTAL REFLECTOR MARKER
RM-3H



SIDE VIEW



FRONT VIEW

GENERAL NOTES:

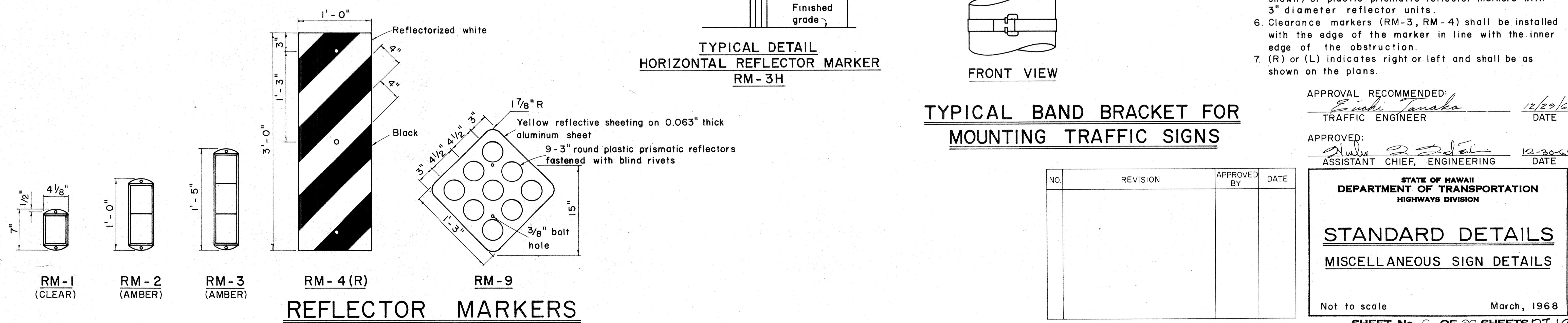
- Sign posts shall be 2" galv. standard pipe or 2" x 2" galv. sq. tube post.
- Signs 48" and wider or larger than 10 sq. ft. in area shall be mounted on two 2" galv. standard pipe or two 2" x 2" galv. sq. tube post or 4" x 4" redwood post S4S.
- Signs shall be attached to post with 5/16" galv. bolts with nuts and 7/8" x 0.06 stainless steel washers with neoprene rubber gasket.
- Sign posts shall extend 3 1/2" above sign where required for City and County street name signs.
- Reflector markers RM-1, 2, 3 shall be glass sphere reflector markers with 4" x 5" reflector units (as shown) or plastic prismatic reflector markers with 3" diameter reflector units.
- Clearance markers (RM-3, RM-4) shall be installed with the edge of the marker in line with the inner edge of the obstruction.
- (R) or (L) indicates right or left and shall be as shown on the plans.

APPROVAL RECOMMENDED:
Euchi Tanaka
TRAFFIC ENGINEER

12/29/69
DATE

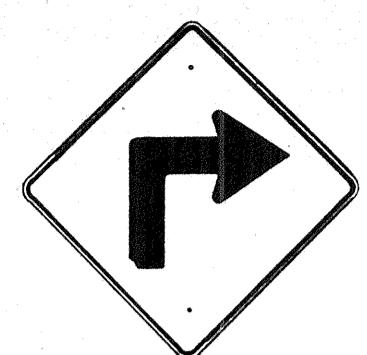
APPROVED:
John S. Doherty
ASSISTANT CHIEF, ENGINEERING

12-30-69
DATE



ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	TRAFFIC ENG.	
NOTE BOOK	DESIGNED BY	
QUANTITIES BY		
NO.	CHECKED BY	

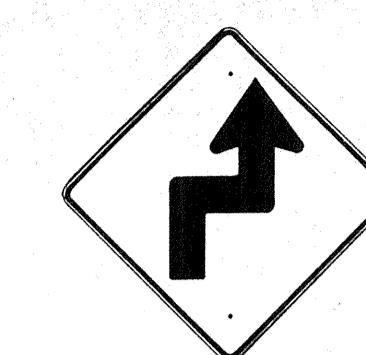
STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	19-BC-01-71	1971	50	62



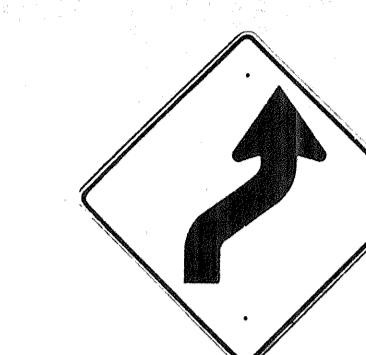
W1-1(R) 30" x 30"



W1-2(R) 30" x 30"



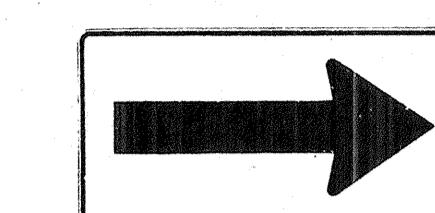
W1-3(R) 30" x 30"



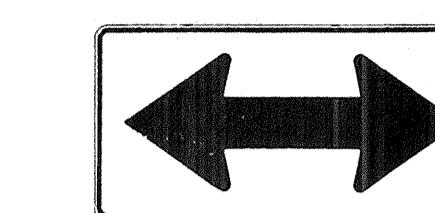
W1-4(R) 30" x 30"



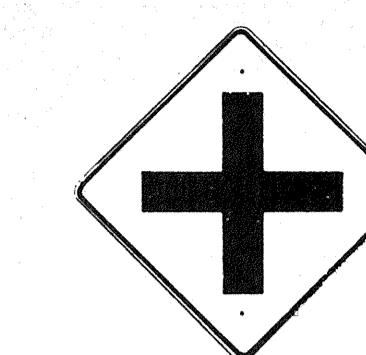
W1-5(R) 30" x 30"



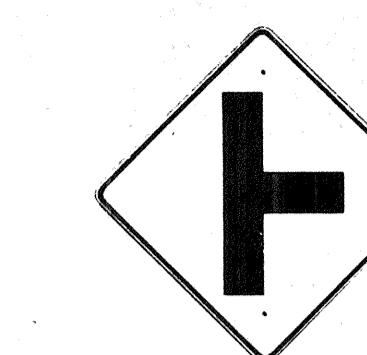
WI-6 48" x 24"



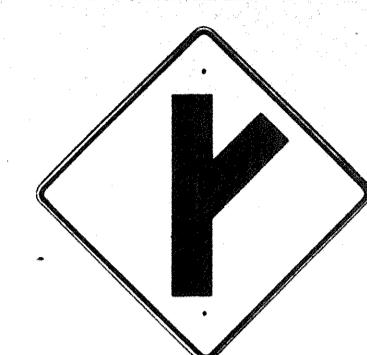
WI-7 48" x 24"



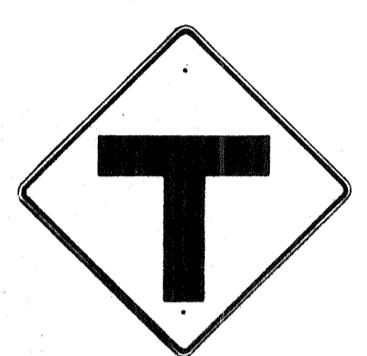
W2-1 30" x 30"



W2-2 30" x 30"



W2-3(R) 30" x 30"



W2-4 30" x 30"



W2-5 30" x 30"



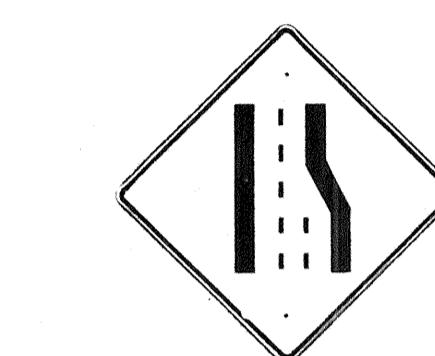
W3-1 30" x 30"



W3-2 30" x 30"



W3-3 36" x 36"

W4-1 30" x 30"
W4-1-E 36" x 36"
W4-1-I 48" x 48"W4-2 30" x 30"
W4-2-E 36" x 36"W5-1 30" x 30"
W5-1-E 36" x 36"

W5-2 30" x 30"



W5-3 30" x 30"



W6-1 36" x 36"



W6-2 36" x 36"



W7-1 30" x 30"



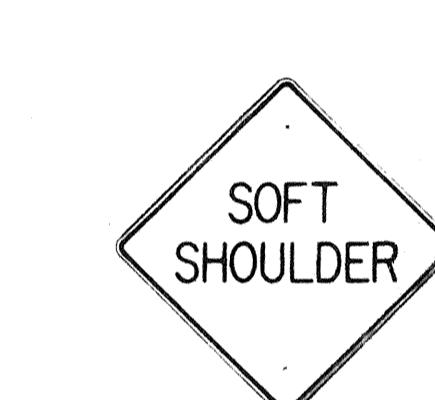
W8-1 30" x 30"



W8-2 30" x 30"



W8-3 30" x 30"



W8-4 30" x 30"



W8-5 30" x 30"



W9-1 30" x 30"



W9-2 30" x 30"



W10-1 36" DIAMETER



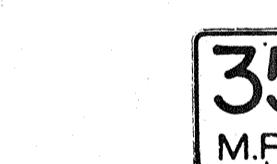
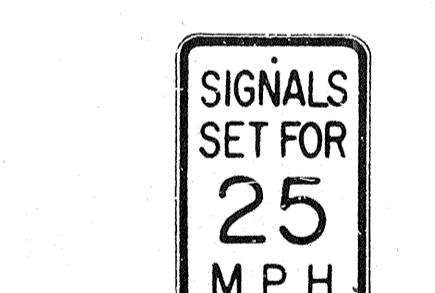
W11-1 30" x 30"



W11-5 30" x 30"



W12-2 36" x 36"

W13-1(35) 18" x 18"
W13-1(35)-E 24" x 24"

W13-2(25) 12" x 18"



W13-3(25) 48" x 60"

NOTE:

- The shape, color, dimensions, symbols, wording, lettering and reflectorization of all signs shall be in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways," dated June 1961 and the BPR manual "Standard Highway Signs," dated September 1961 unless otherwise specified.
- All warning signs shall be reflectORIZED unless otherwise specified.
- All warning signs shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations unless otherwise noted.
- (R) or (L) indicates right or left and shall be as shown on the plan.
- The suffix "E" denotes Expressway signs and "I" denotes Interstate signs.
- For W13 sign, number in () indicates speed and shall be as shown on the plans.

ORIGINAL PLAN	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES AV.	
NOTE BOOK	
CHECKED BY	
No. _____	

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

APPROVED:
[Signature]
ASSISTANT CHIEF, ENGINEERING
DATE: 12-30-69

NO.	REVISION	APPROVED BY	DATE

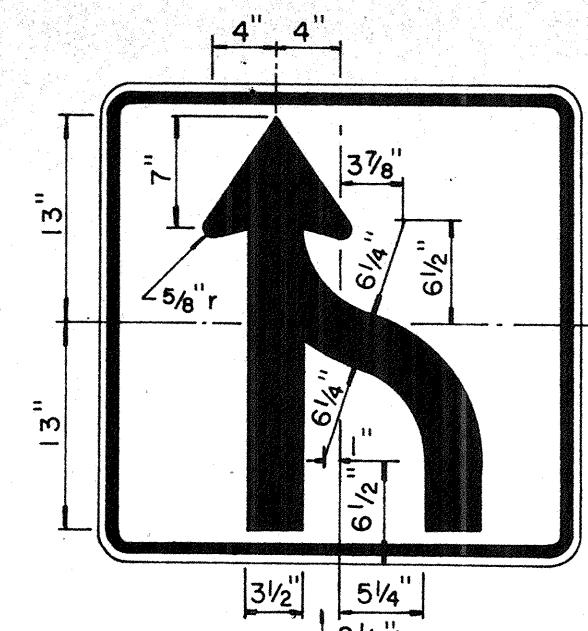
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
WARNING SIGNS

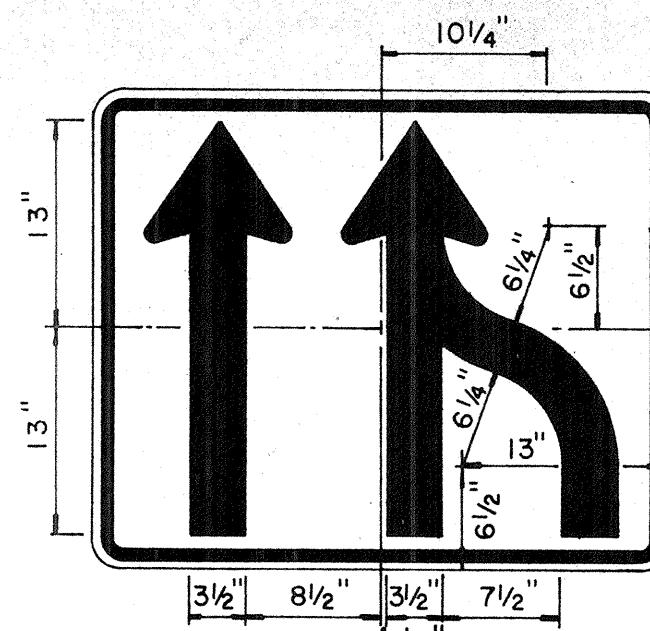
NOT TO SCALE

SHEET No. 8 OF 20 SHEETS DT 102

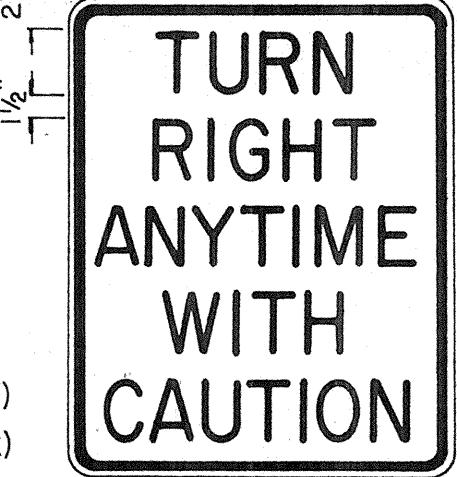
STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	19-BC-01-71	1971	51	62



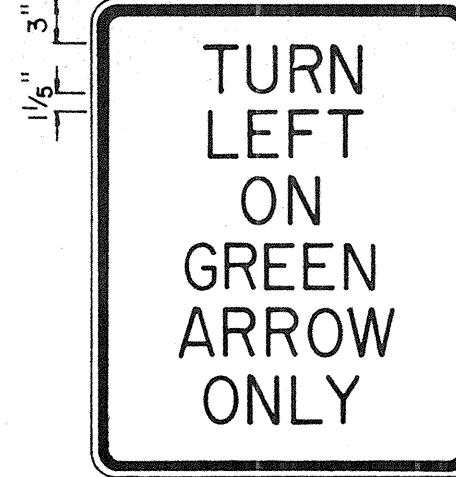
R3-9 30"x 30"



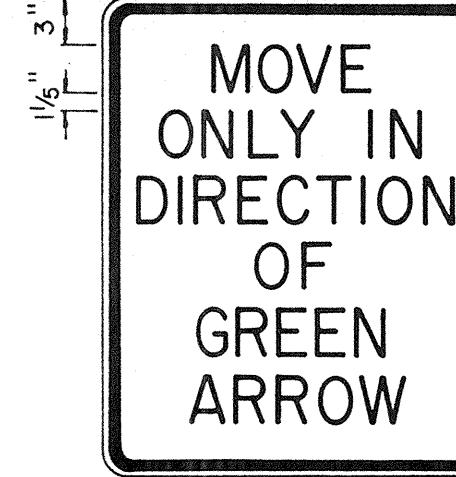
R3-10 36"x 30"

6" Series C : R5-5(1)
8" Series C : R5-5(2)

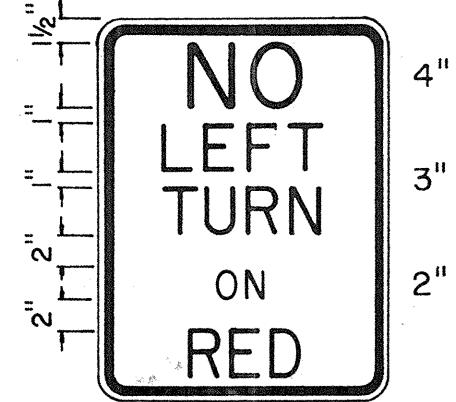
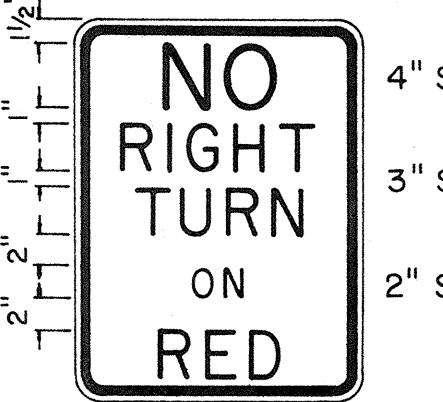
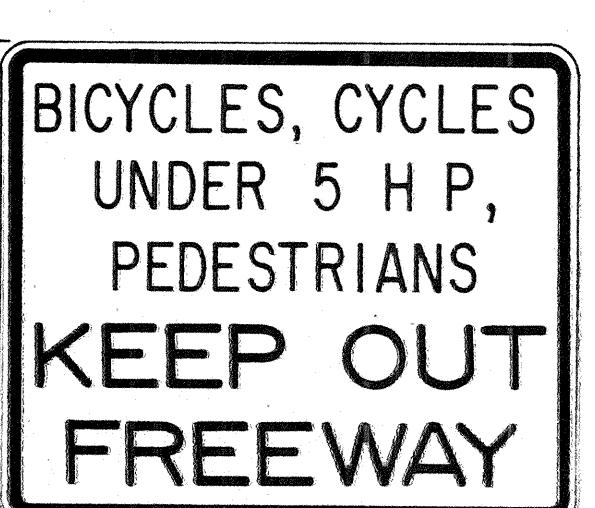
4" Series C



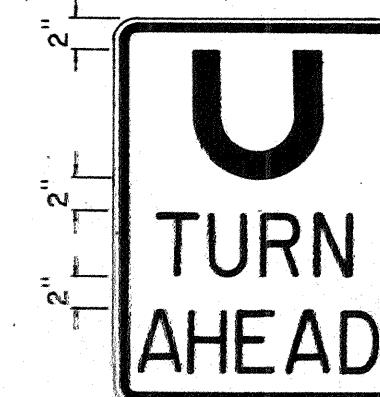
3" Series C



3" Series C

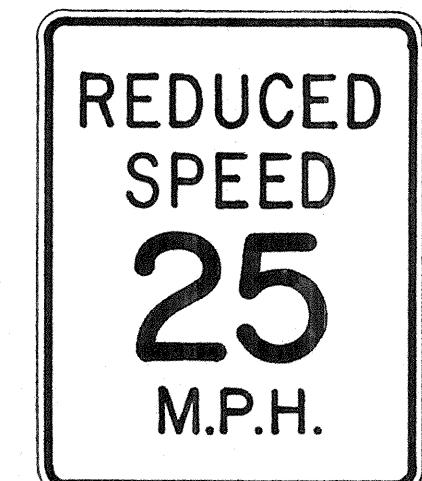
4" Series D
3" Series C
2" Series B4" Series D
3" Series C
2" Series B

R18-1 36"x 30"

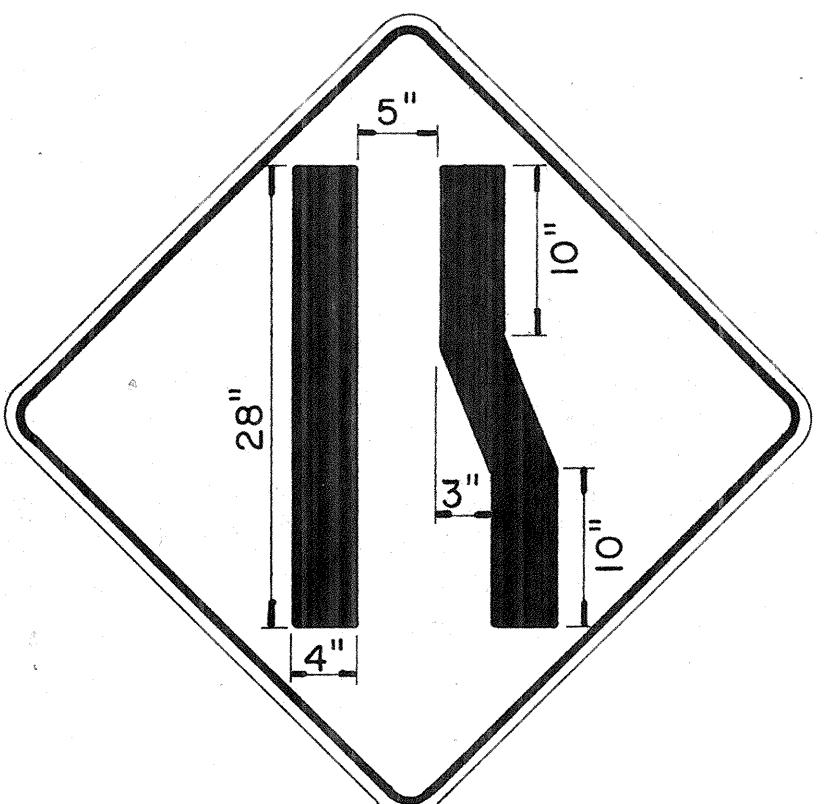


8" Series F

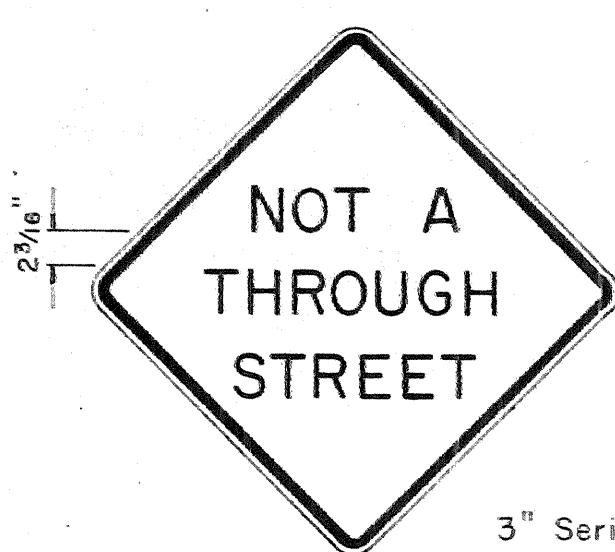
4" Series D

4" Series C
8" Series D
3" Series D

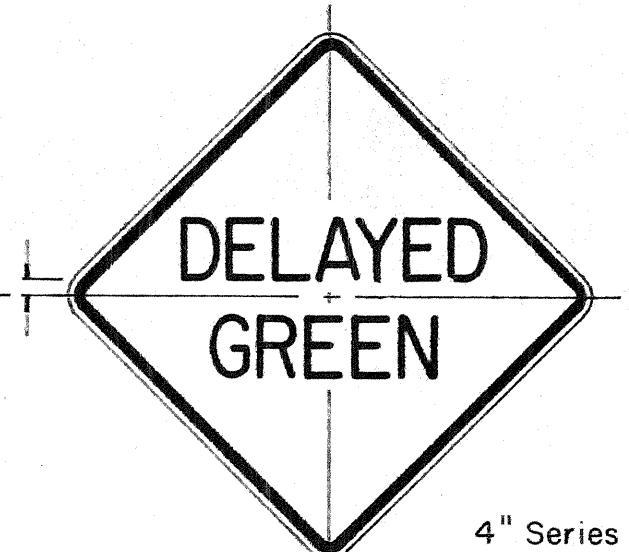
R2-5A(25) 24"x 30"



5" Series D

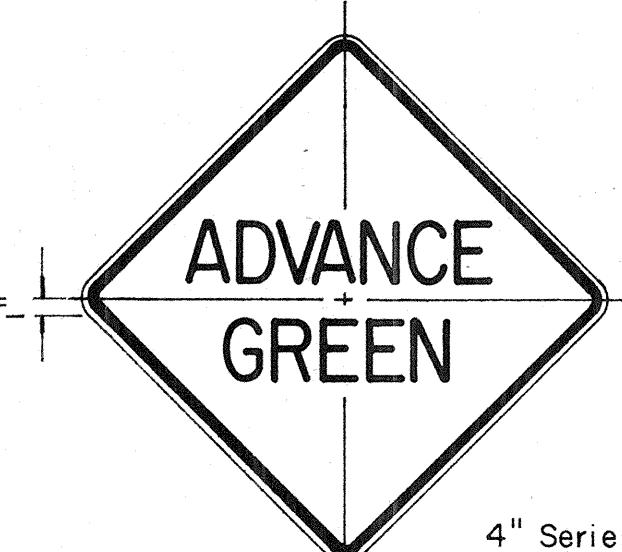


3" Series D



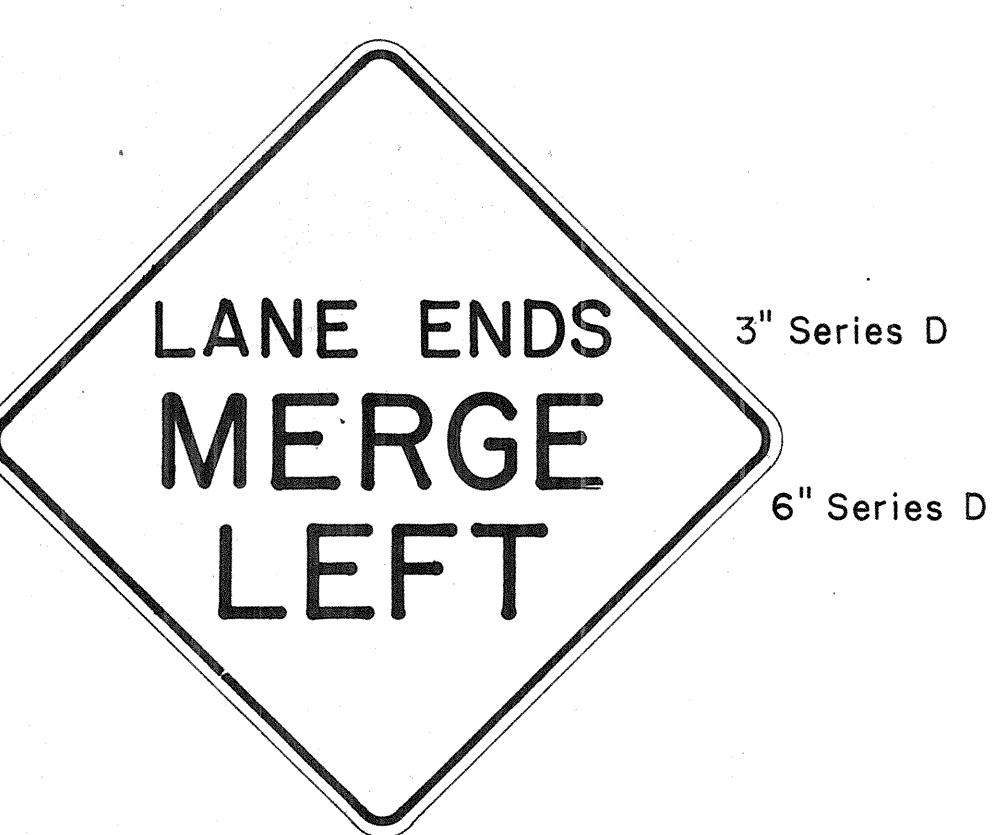
4" Series C

WI3-4 24"x 24"

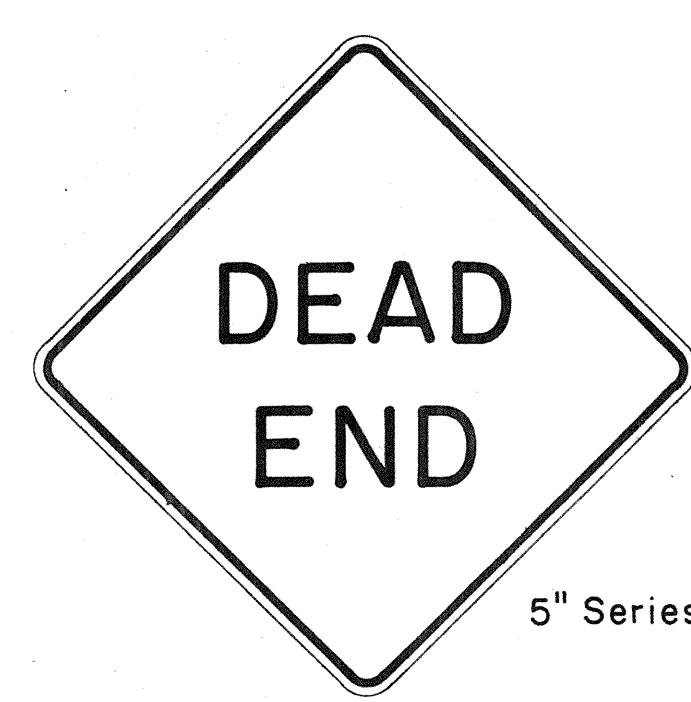


4" Series C

WI5-1 24"x 24"

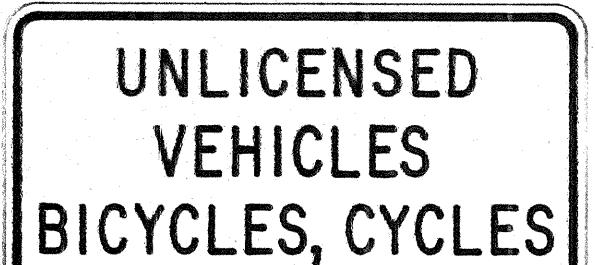
3" Series D
6" Series D

WI5-2 24"x 24"



5" Series D

WI3-4A 30"x 30"



3" Series C

SUPPLEMENTARY PLATE
R18-1A 17"x 36"

W4-2C(L) 36"x 36"

NO.	REVISION	APPROVED BY	DATE
I	Added R2-5A(25), R5-1A, W4-2A(R), W4-2B(R), W4-2C(L), WI3-4A, R18-1A, Notes 4 & 5	H.C.	5/21/71

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

MISCELLANEOUS REGULATORY & WARNING SIGNS

Scale: 1" = 1'-0"

SHEET No. 5 OF 20 SHEETS DT 103

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	19-BC-01-II	1971	52	62



W 7-2 48"x48"



W 8-7 30"x30"



W 14-1 30"x30"



W 20-1a 48"x48"



W 20-2d 48"x48"



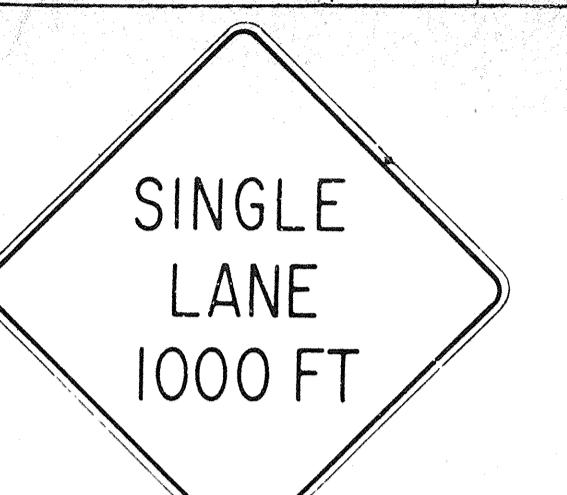
W 20-3b 48"x48"



W 20-4d 48"x48"



W 20-5d(L) 48"x48"



W 20-6b 48"x48"



W 20-7c 48"x48"



W 21-1 30"x30"



W 21-2 24"x24"



W 21-3 36"x36"



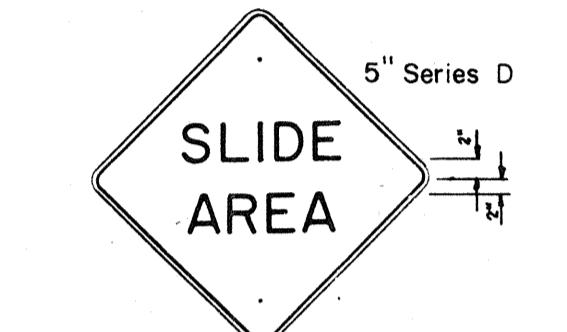
W 21-4 30"x30"



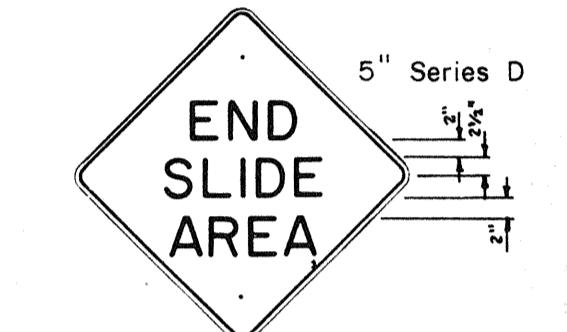
W 21-5 30"x30"



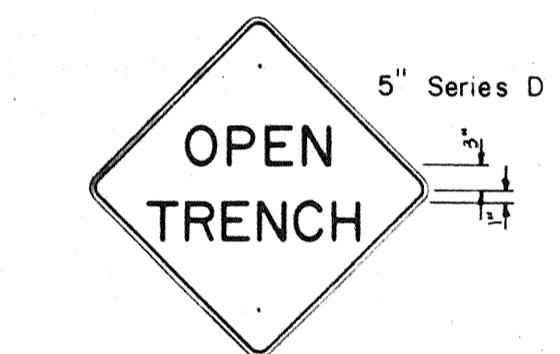
W 21-6 30"x30"



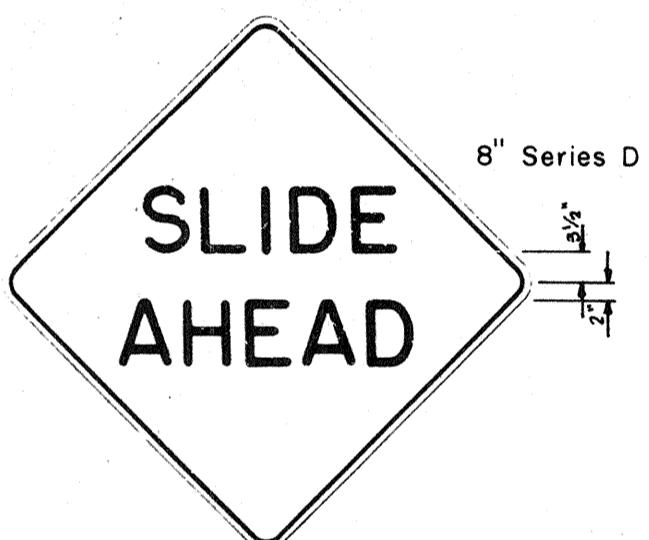
W 22-1 30"x30"



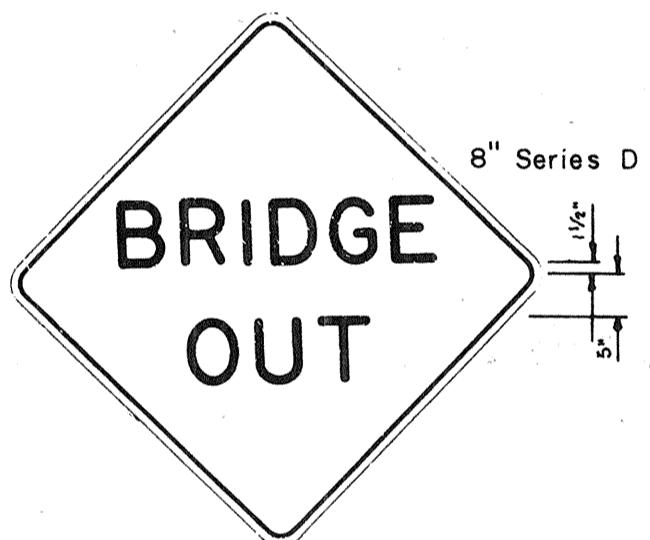
W 22-2 30"x30"



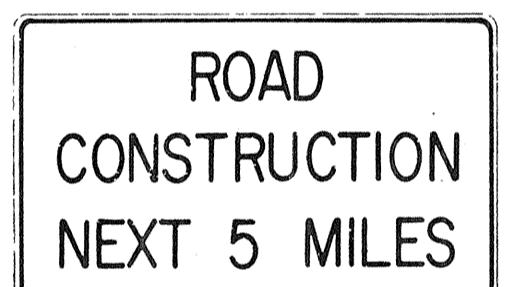
W 22-3 30"x30"



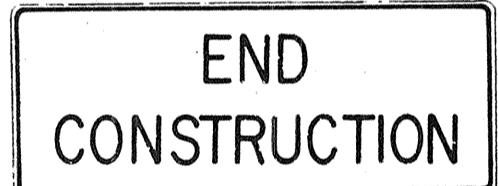
W 22-4 48"x48"



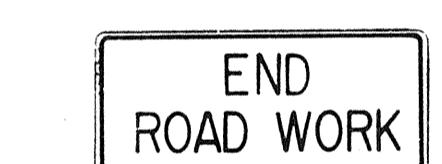
W 22-5 48"x48"



G 20-1(5) 60"x36"



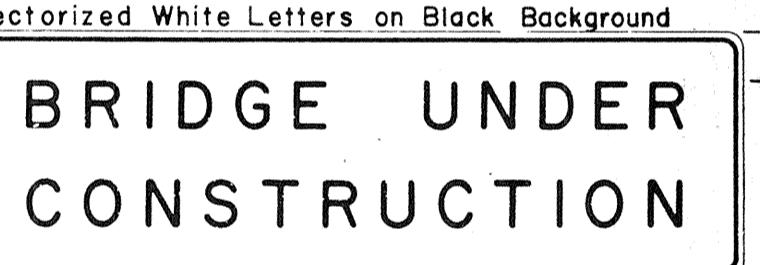
G 20-2 60"x24"



G 20-3 42"x18"



M 5-7(L) 48"x18"



CW-1 96"x30"

Reflectorized White Letters on Black Background

BRIDGE UNDER CONSTRUCTION

NOTE:

1. The shape, color, dimensions, symbols, wording, lettering and reflectorization of all signs shall be in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways," dated June 1961 and the BPR manual "Standard Highway Signs," dated September 1961 unless otherwise specified.
2. All signs shall be reflectorized unless otherwise specified.
3. All signs shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations unless otherwise noted.
4. For W20 series signs, suffixes a,b,c and d are as follows a 1500 FT, b 1000 FT, c 500 FT and d AHEAD
5. (R) or (L) indicates right or left and shall be as shown on the plans.
6. Number in () indicates miles and shall be as shown on the plans.

ORIGINAL PLAN	SURVEY FLICKED BY
DRAWN BY	TRACED BY
DESIGNED BY	CHECKED BY
NOTE BOOK	
No. _____	

APPROVAL RECOMMENDED:

Euchi Tanaka
TRAFFIC ENGINEER

12/29/69
DATE

APPROVED:

Shimizu & Associates
ASSISTANT CHIEF, ENGINEERING

12-30-69
DATE

NO.	REVISION	APPROVED BY	DATE

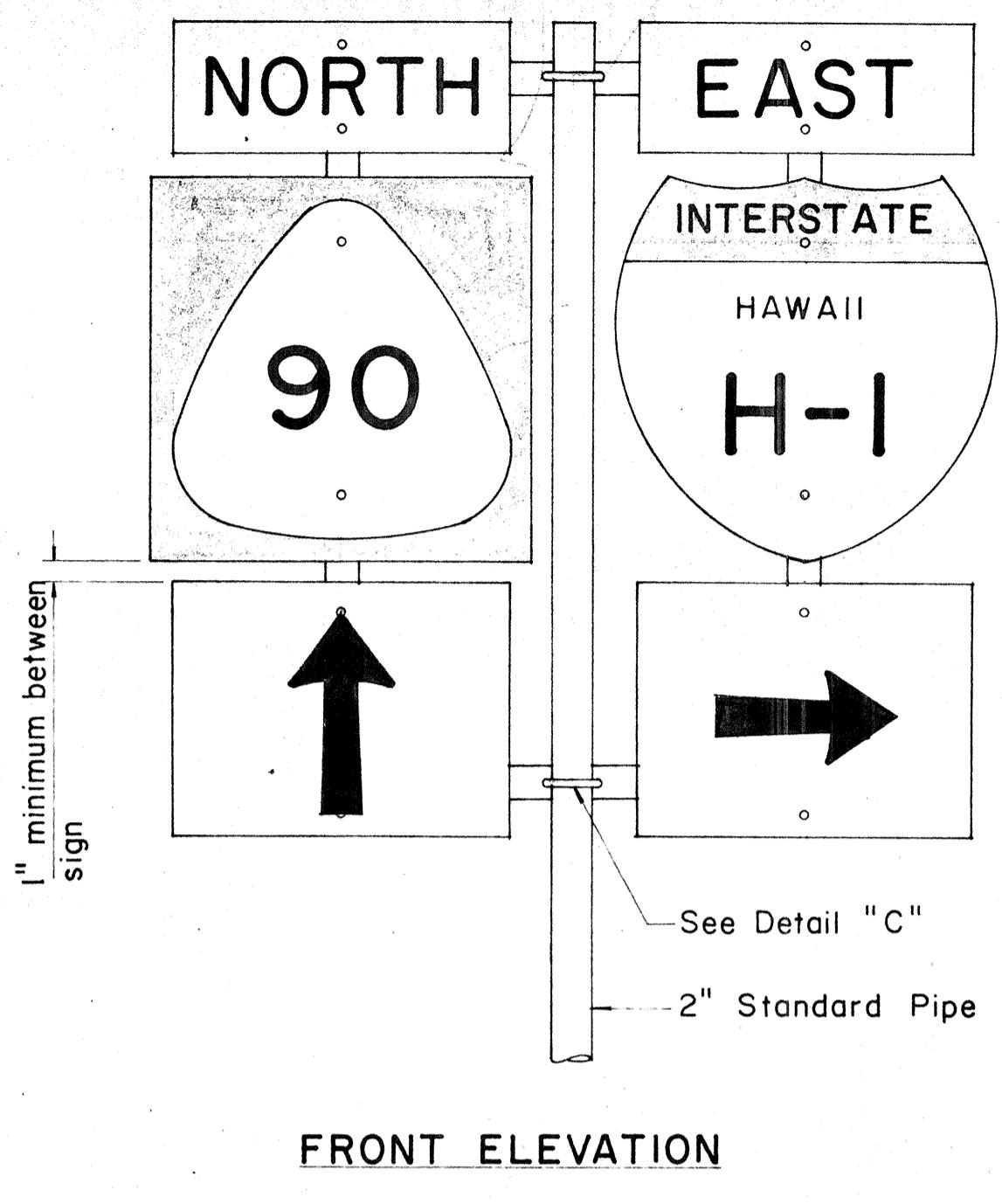
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

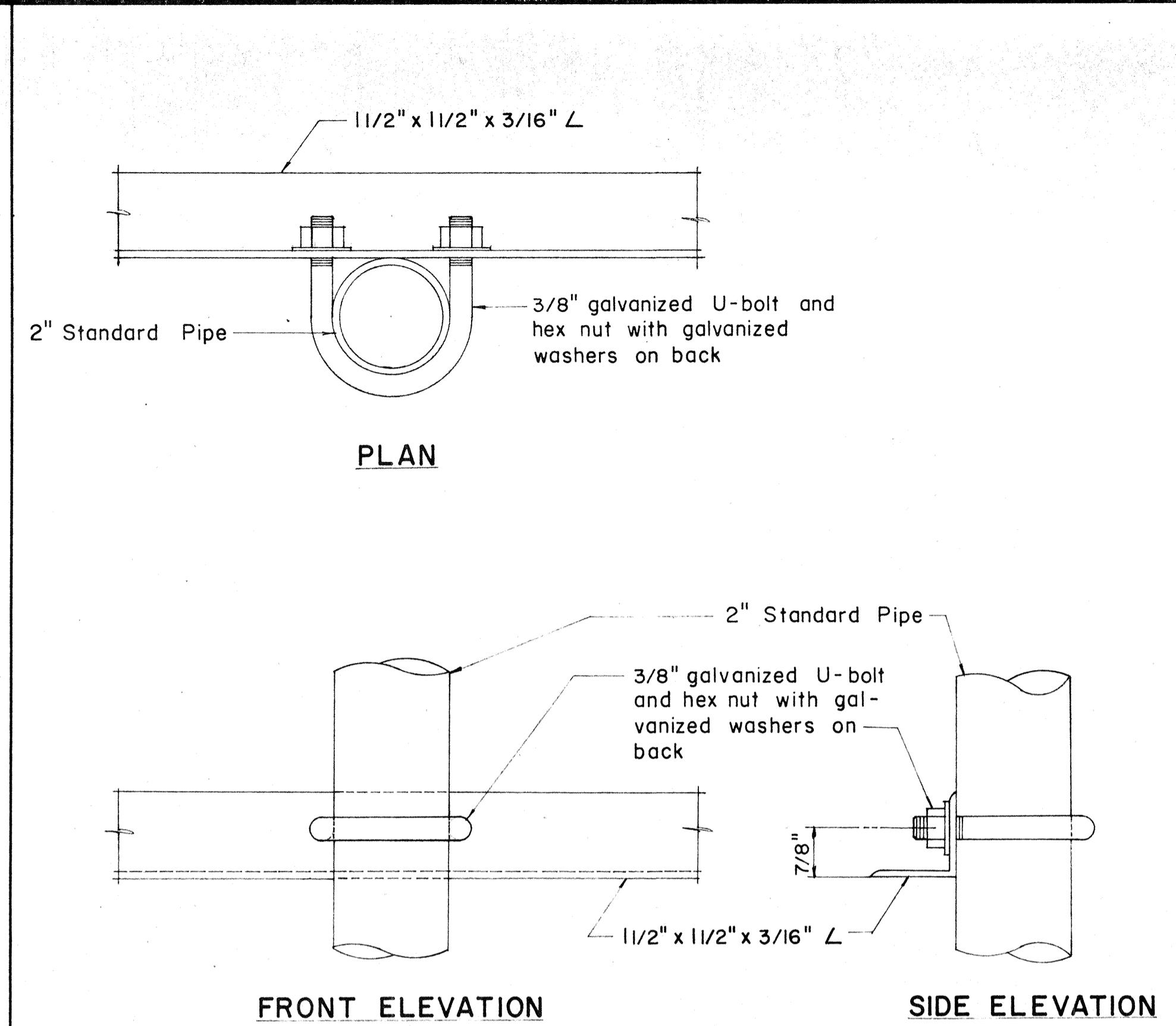
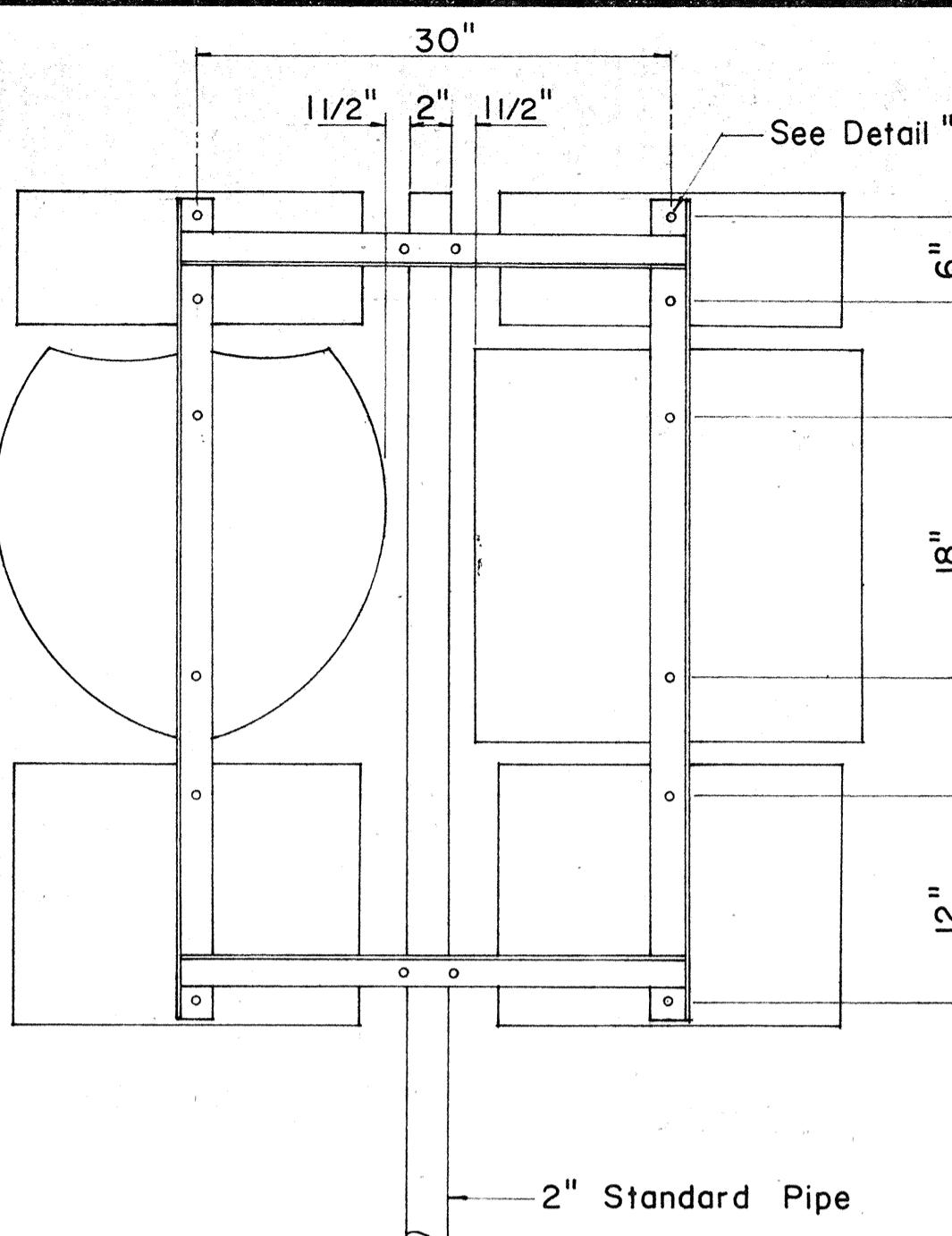
CONSTRUCTION SIGNS

NOT TO SCALE

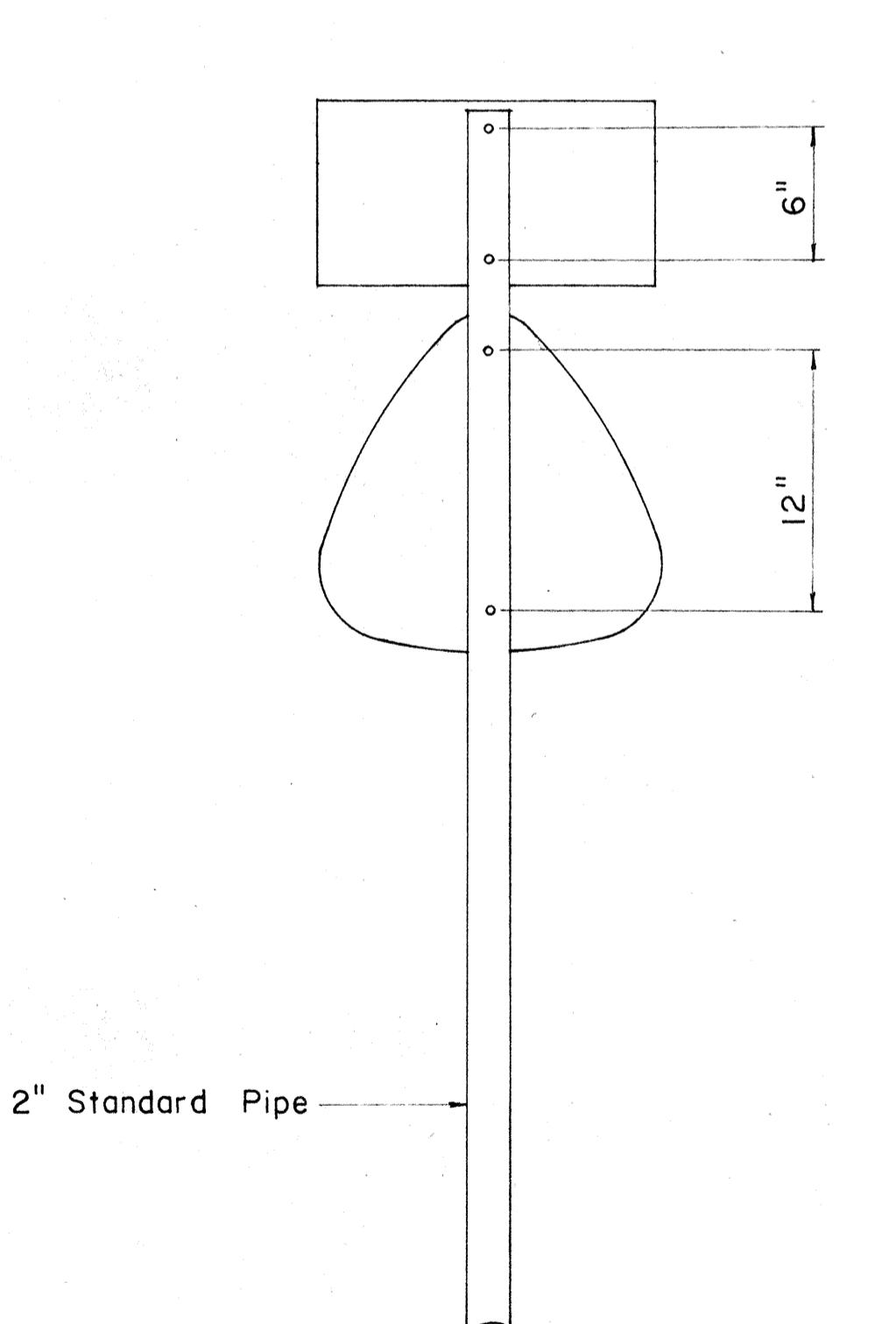
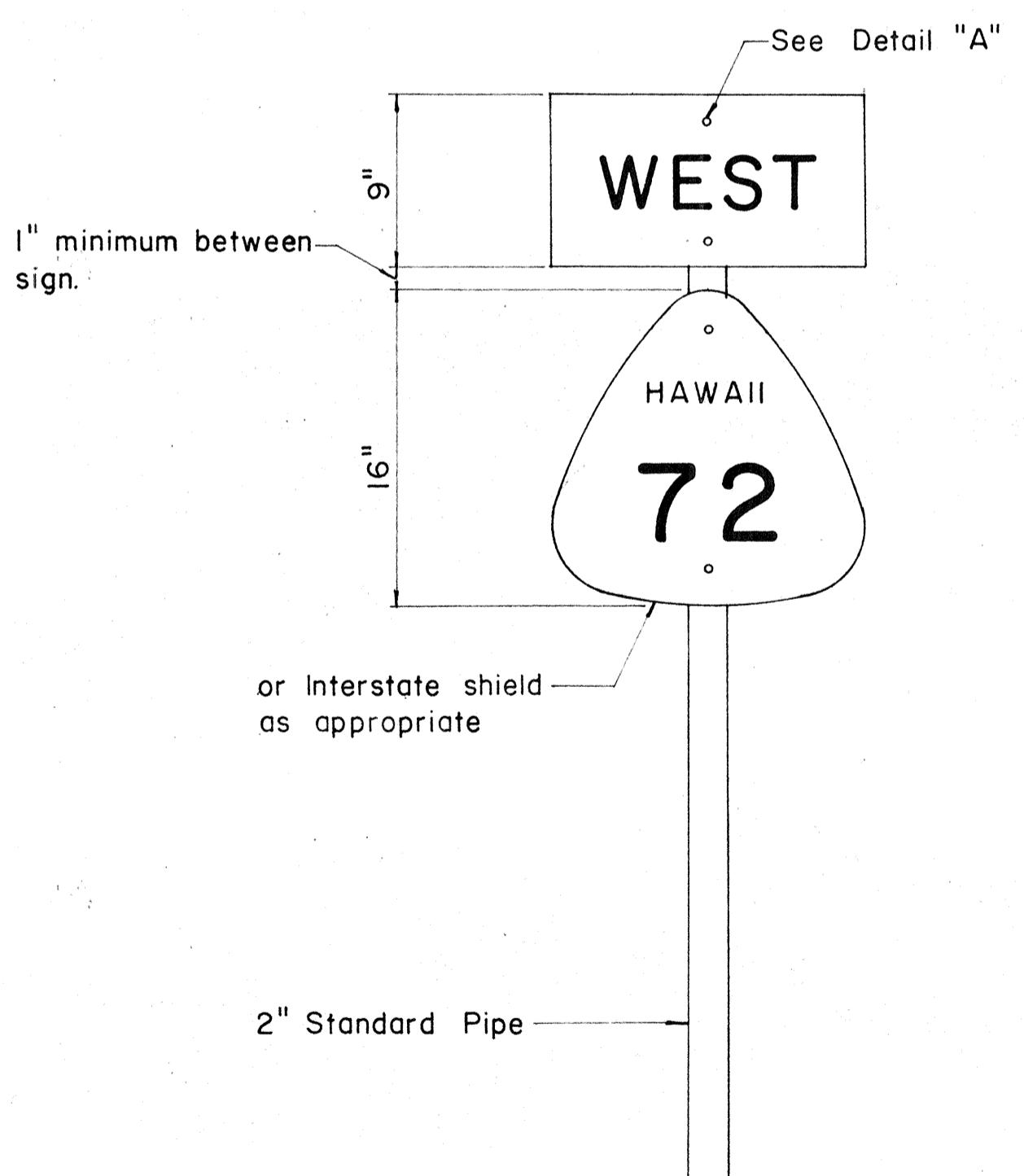
STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	I9-BC-01-71	1971	53	62



TYPE "B" ASSEMBLY

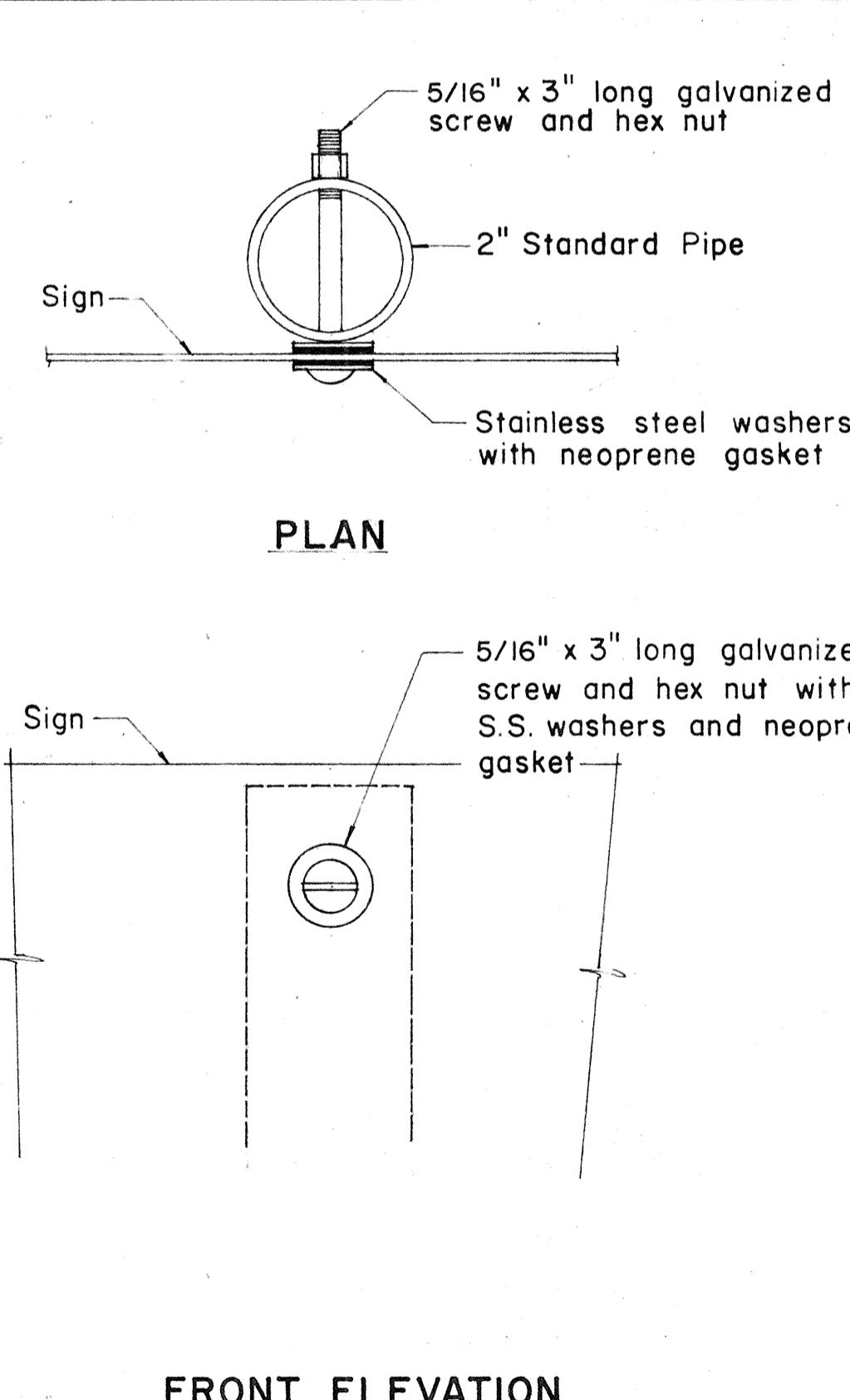


DETAIL "C"



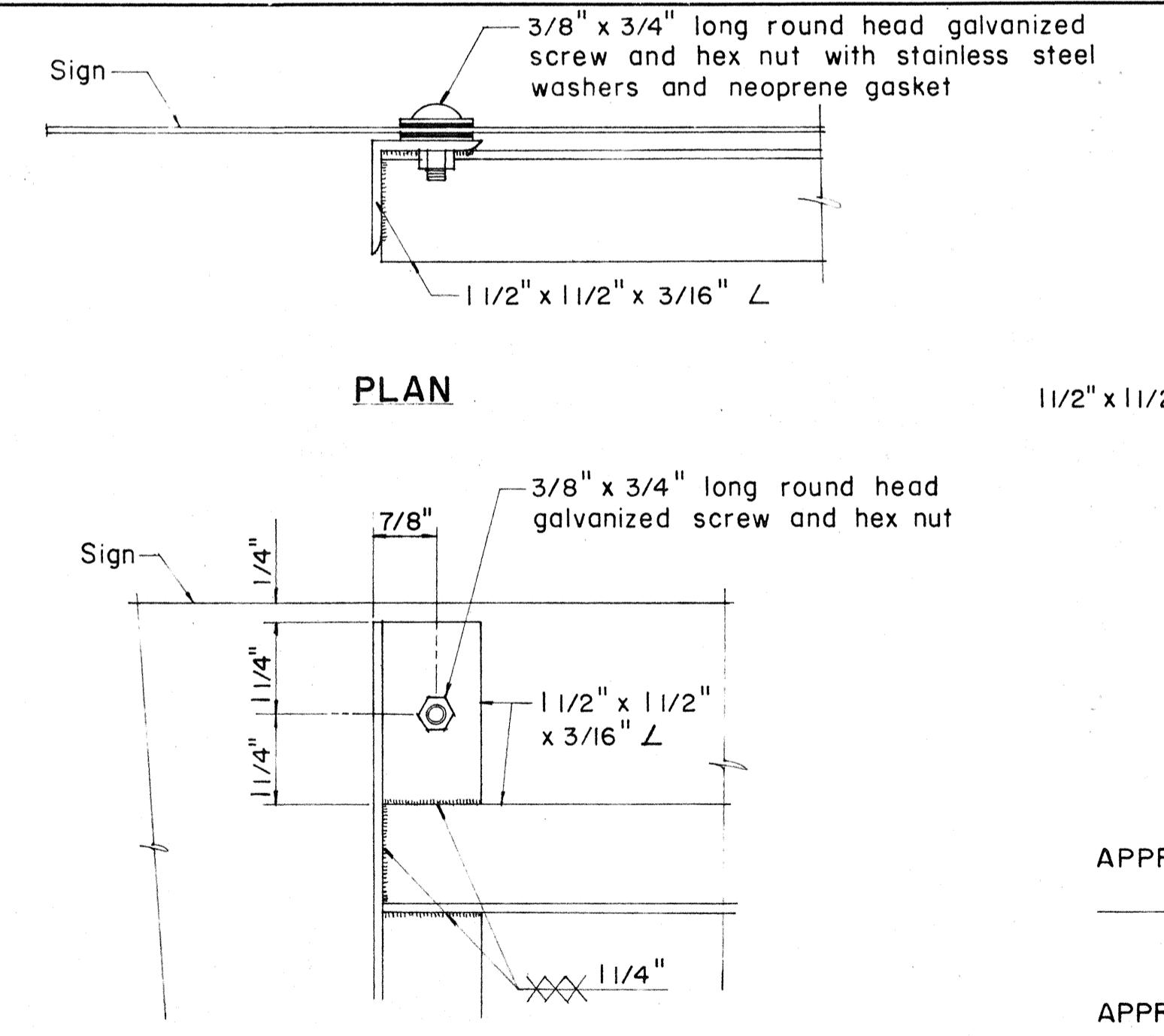
TYPE "A" ASSEMBLY

NOTE:
1. Minimum clearance between signs shall be one inch.
(Larger clearances shall be in multiples of one inch.)
2. Pipe post for Type "A" & Type "B" Assembly
shall be 2" Standard Pipe.



NOTE:
For height and lateral
location of Route Marker
Assembly, see plan sheet
DT 100.

DETAIL "A"



DETAIL "B"

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAILS
OF

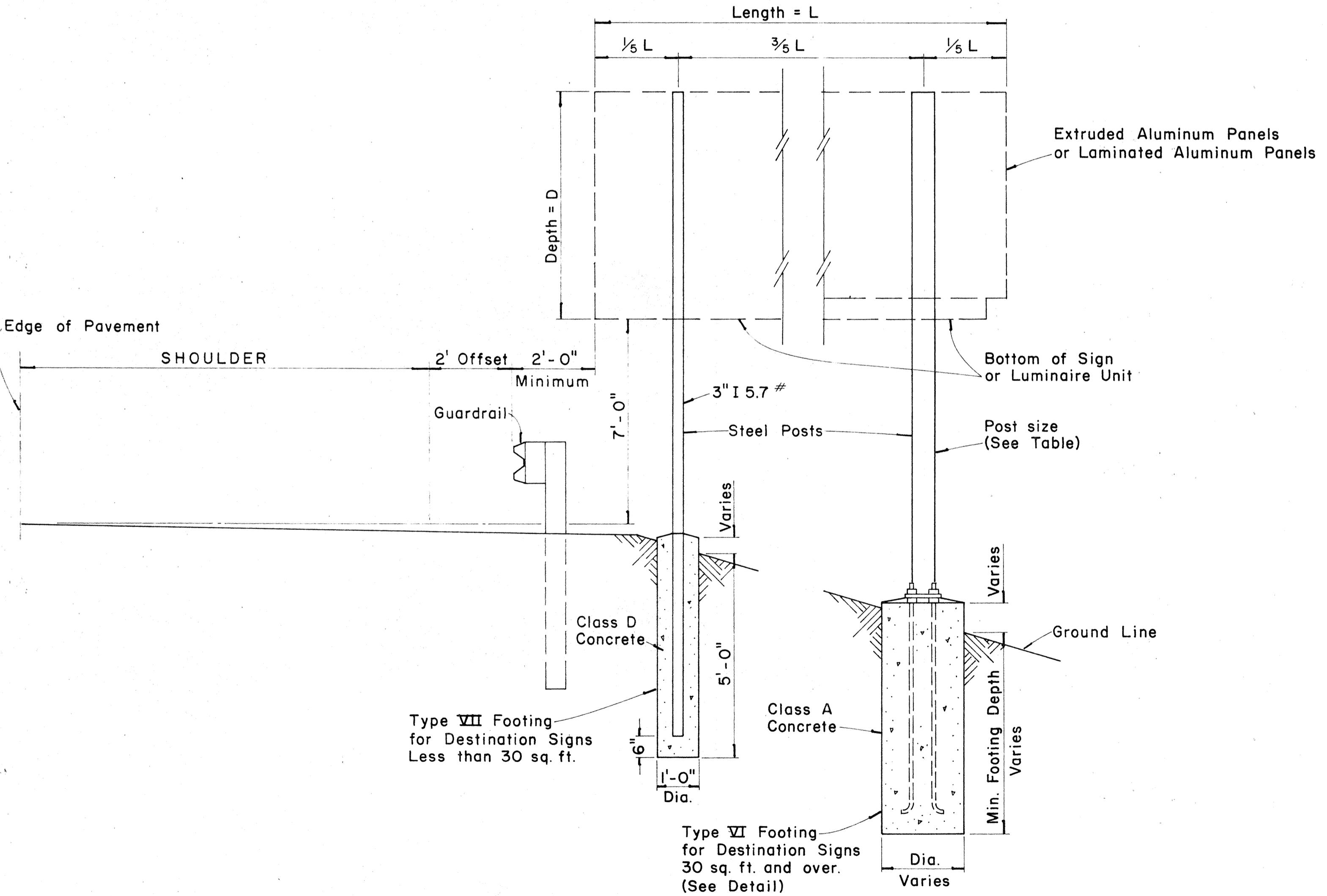
ROUTE MARKER ASSEMBLY

APPROVAL RECOMMENDED:
Eusebio Tanaka
TRAFFIC ENGINEER
DATE 12-29-69

APPROVED:
Shelby D. Patal
ASSISTANT CHIEF, ENGINEERING
DATE 12-30-69

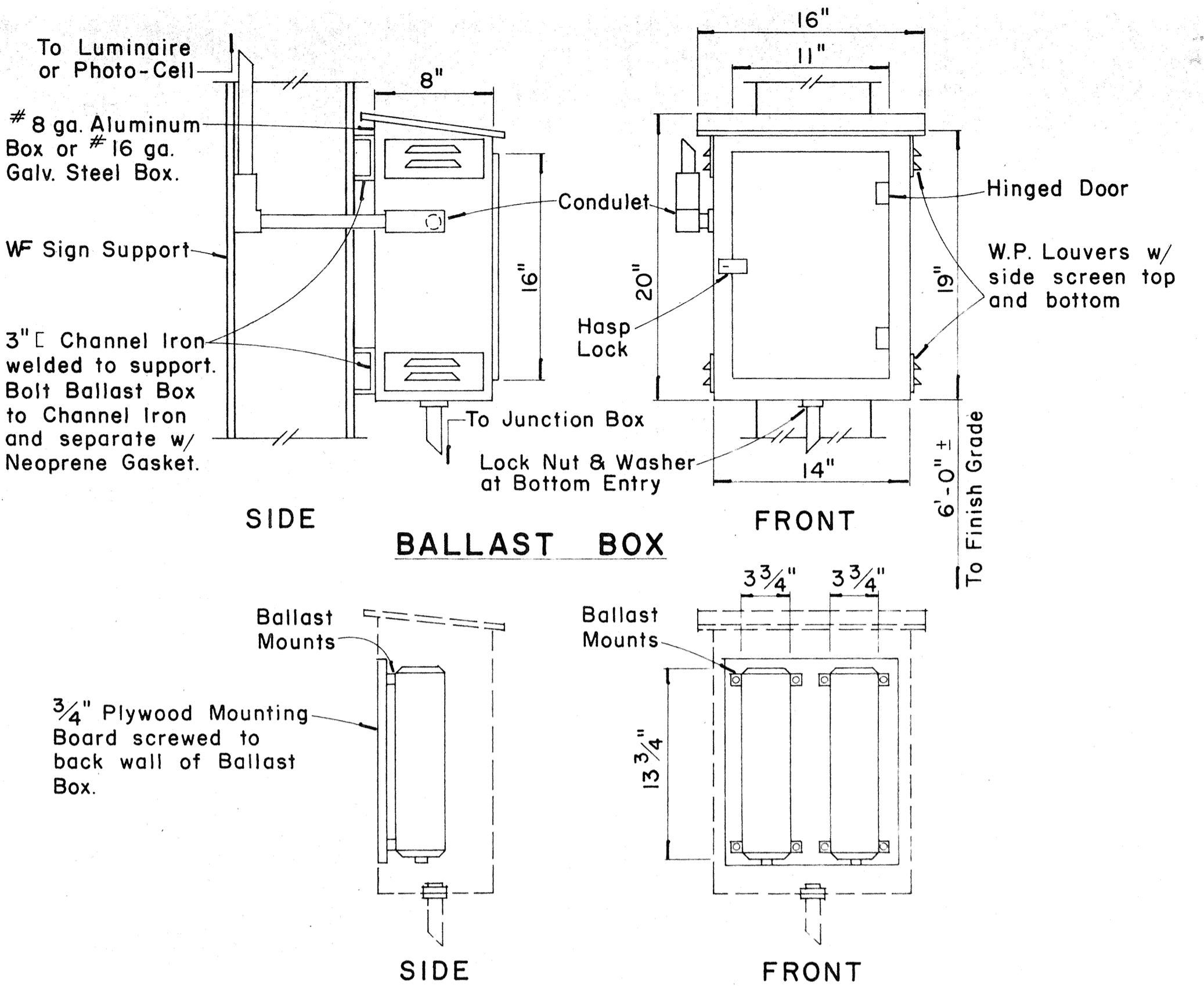
* For moment calculations only. Post shall be from top of foundation to top of sign.
 ** For fills with side slopes flatter than 4:1, Minimum Footing Depth shall be $4\frac{1}{2}$ feet.

DATA TABLE FOR TYPE VI FOOTING																	
POST SIZE	MAXIMUM SIGN AREA	POST HEIGHT TOP OF FOUNDATION TO CENTER OF SIGN *	DIMENSIONS										ANCHOR BOLT DIA.	MINIMUM FOOTING DEPTH CUT	FILL**		
			H	J	K	M	N	O	P	S	T	U	V				
8J10	50 sq. ft.	14'	14"	5"	24"	17 $\frac{1}{4}$ "	1 $\frac{5}{8}$ "	6"	1 $\frac{1}{4}$ "	9"	6"	10"	2"	1"	1 $\frac{1}{8}$ " Ø	4 $\frac{1}{2}$ '	4 $\frac{1}{2}$ '
8WF24	90 sq. ft.	21'														5'	
8WF35	190 sq. ft.	15'	16 $\frac{1}{2}$ "	6 $\frac{3}{4}$ "	30"	20"	1 $\frac{3}{4}$ "	6"	1 $\frac{3}{8}$ "	11 $\frac{3}{4}$ "	6 $\frac{1}{2}$ "	10"	1 $\frac{3}{4}$ "	1"	1 $\frac{1}{4}$ " Ø	6'	7'
IOWF45	190 sq. ft.	25'															
IOWF45	200 sq. ft.	25'															
I2WF50	230 sq. ft.	25'															
I2WF50	250 sq. ft.	23'															



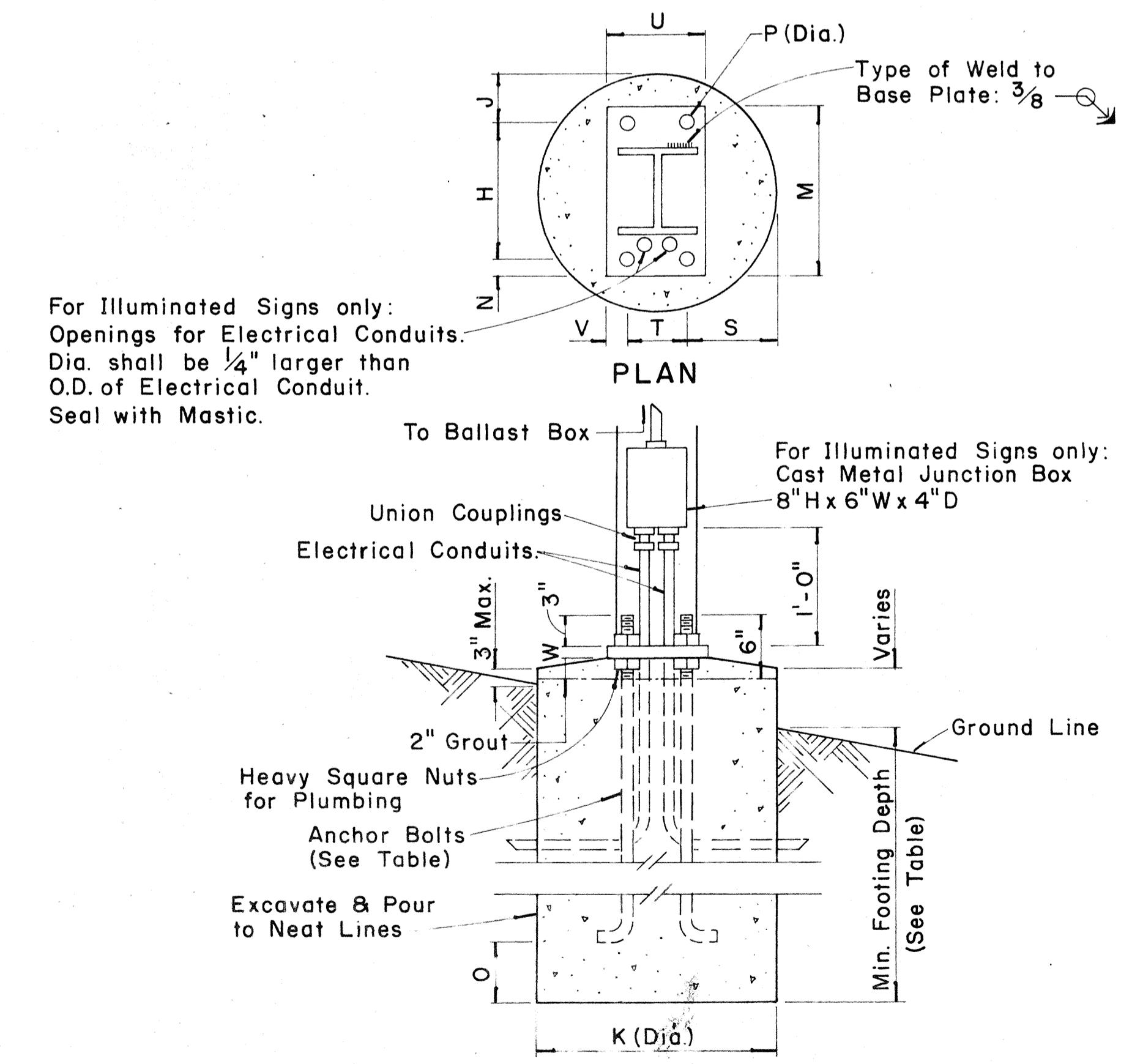
TYPICAL DESTINATION & GROUND MOUNTED EXPRESSWAY SIGN

Not to Scale



WEATHERPROOF BALLAST BOX

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

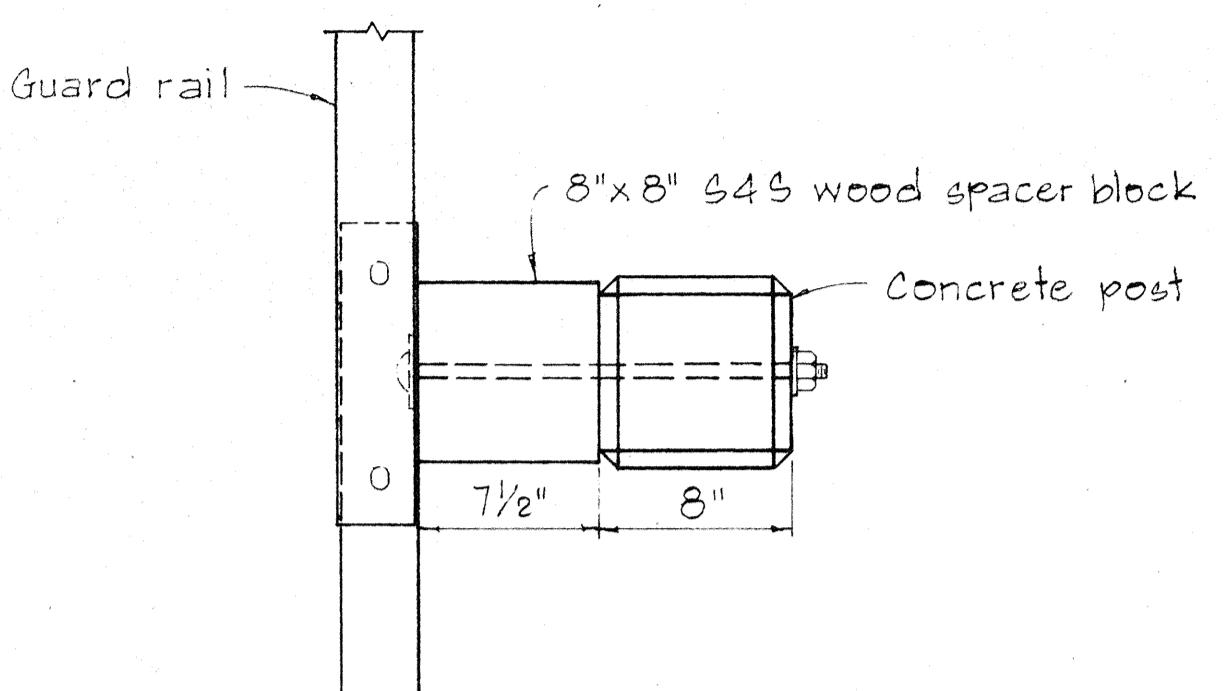


TYPE VI FOOTING

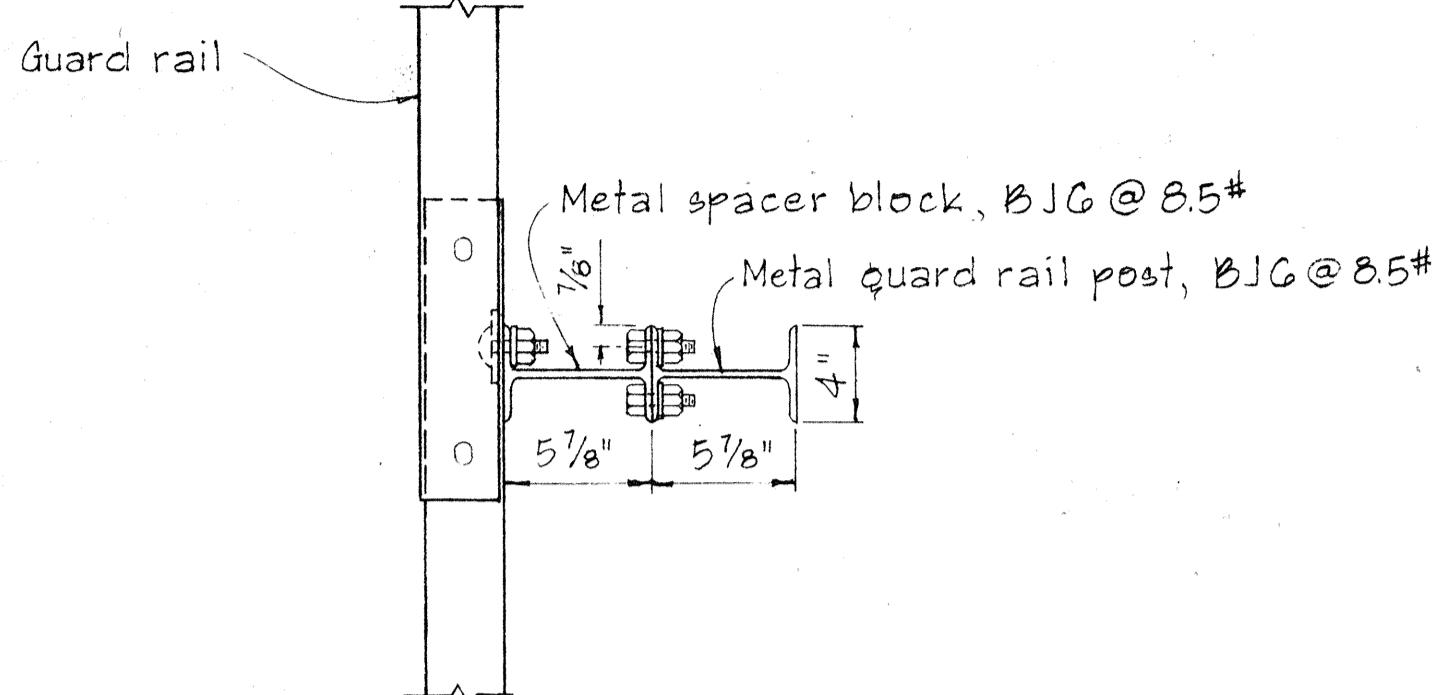
Scale: $1" = 1'-0"$

STATE	PROJ. NO.	FISCAL YEAR	HEET NO.	TOTAL SHEETS
HAW.	19-BC-01-11	1971	54	62

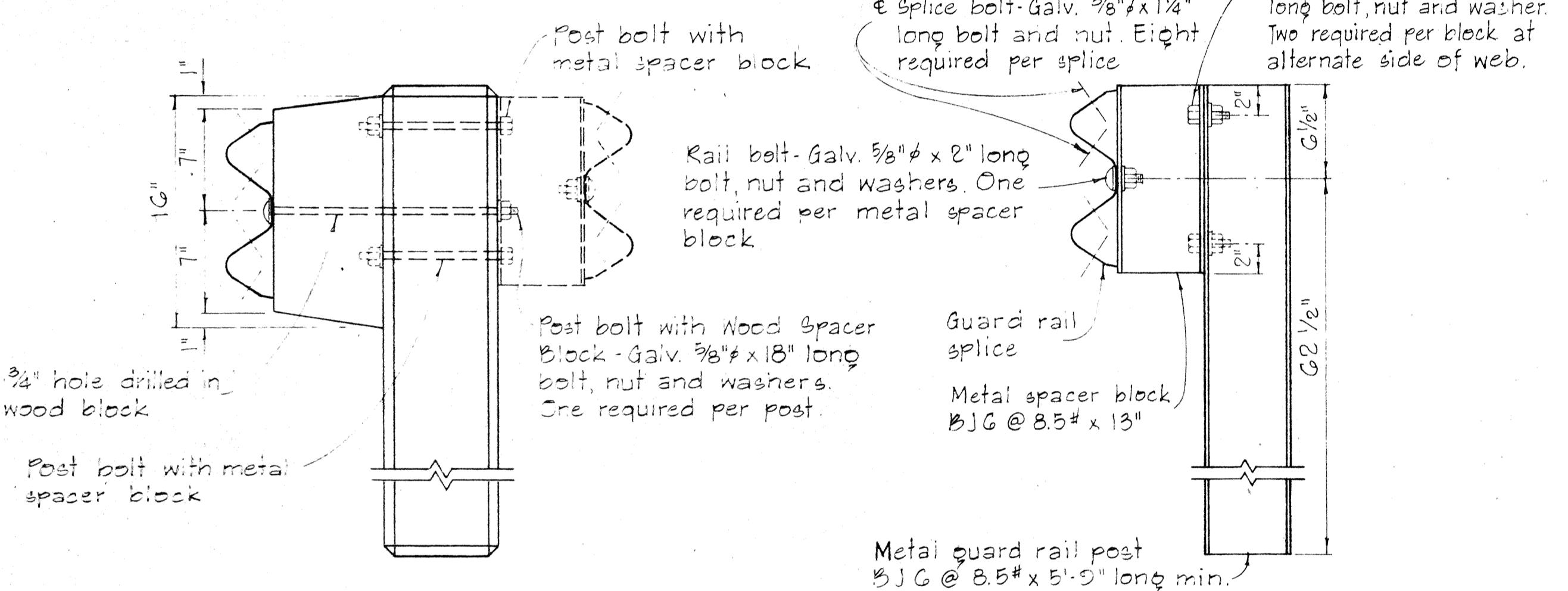
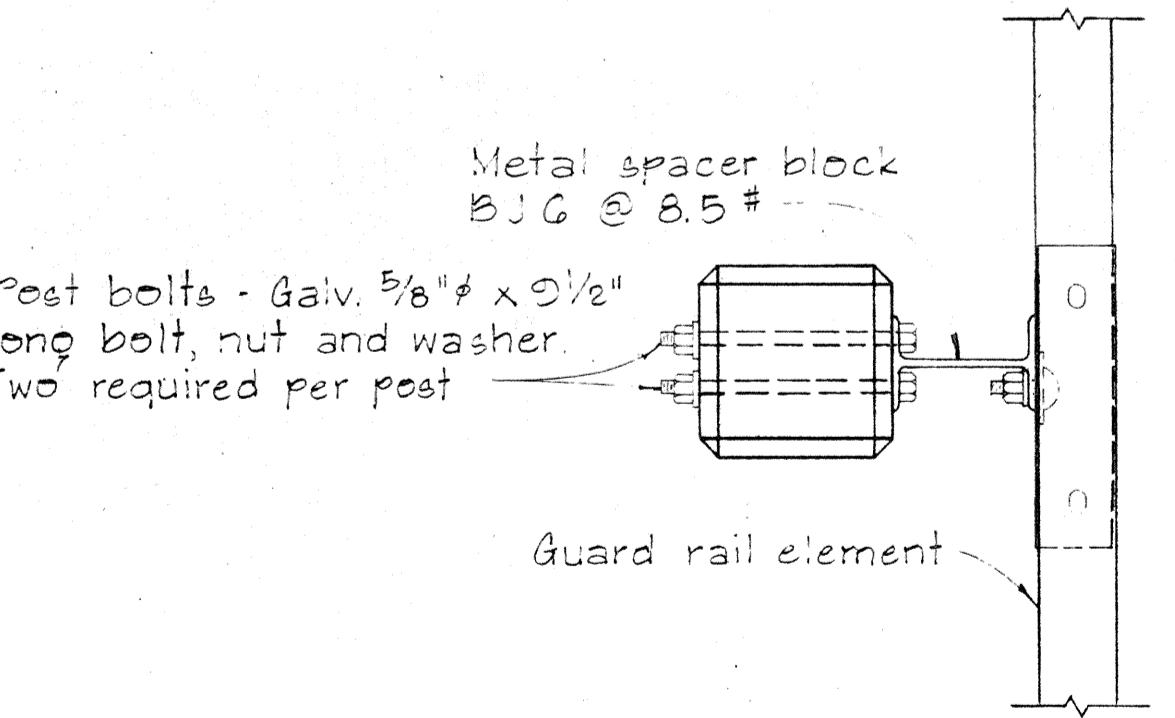
STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	19-BC-01-11	1971	56	62



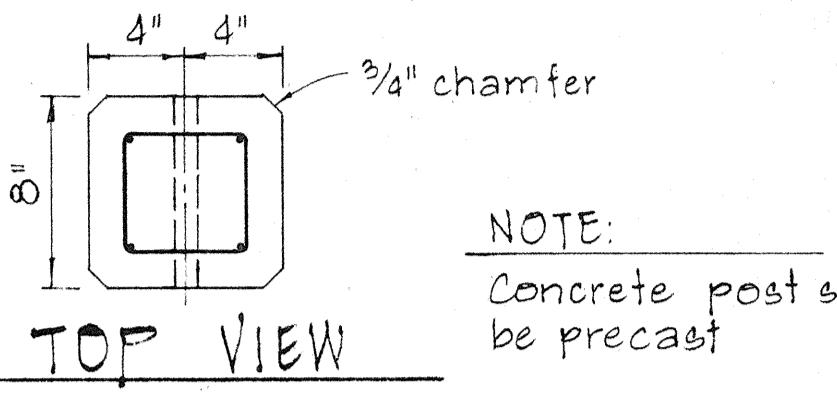
PLAN



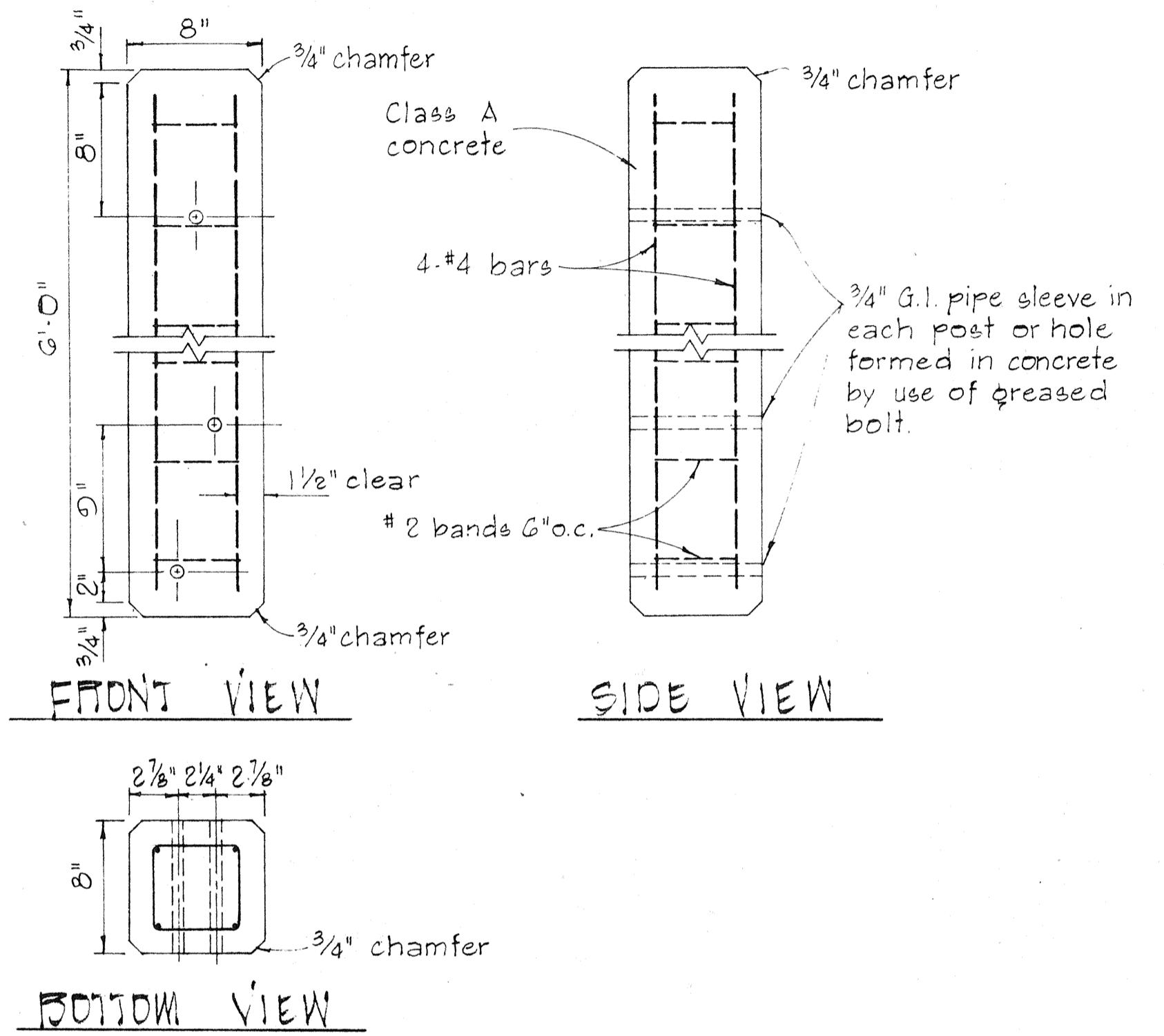
PLAN

SINGLE METAL GUARD RAIL ON METAL POST WITH METAL SPACER BLOCKSCALE: $1\frac{1}{2}'' = 1'-0''$ 

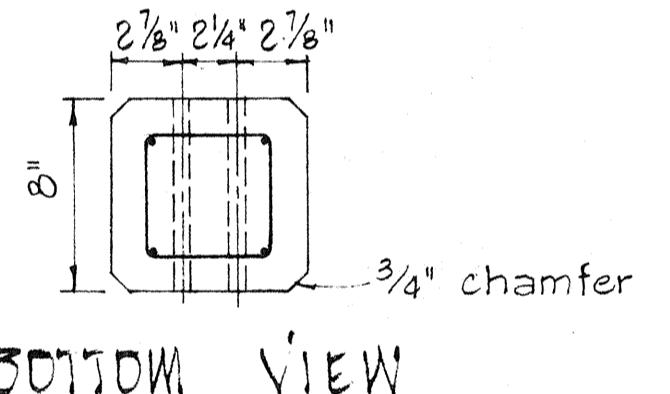
PLAN

SINGLE METAL GUARD RAIL ON PRECAST CONCRETE POST WITH WOOD OR METAL SPACER BLOCKSCALE: $1\frac{1}{2}'' = 1'-0''$ TYPICAL METAL GUARD RAIL DETAILSCALE: $\frac{1}{2}'' = 1'-0''$ NOTE:
Concrete post shall
be precast

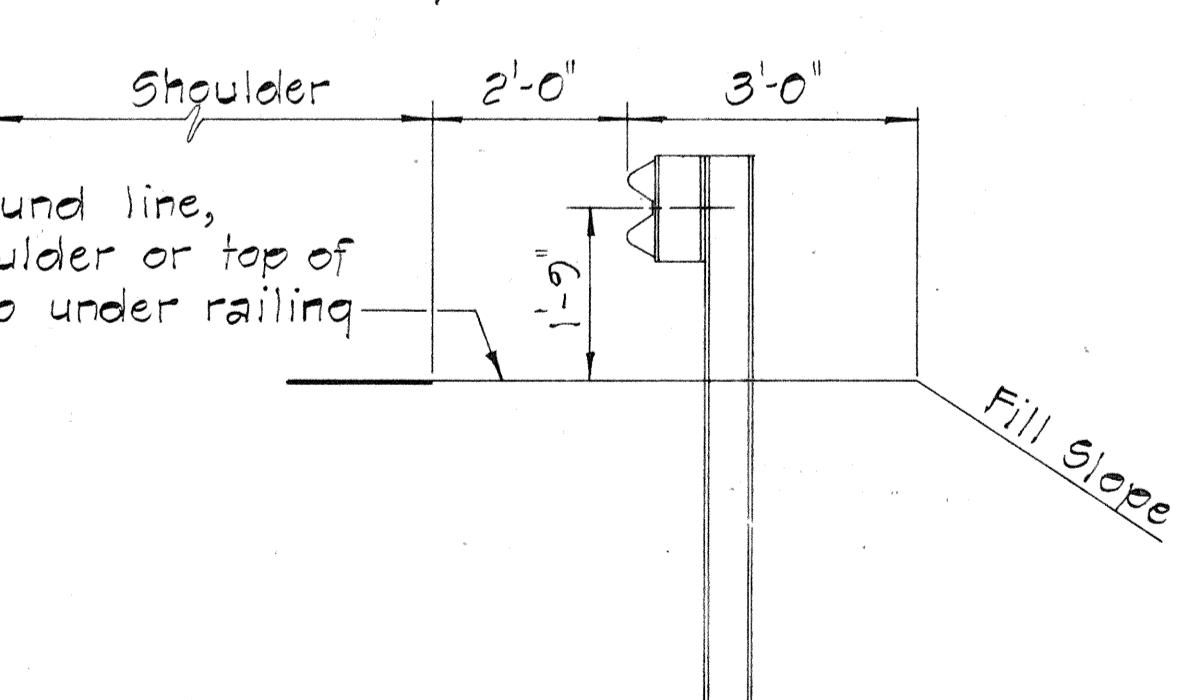
TOP VIEW



SIDE VIEW



BOTTOM VIEW

DETAIL OF CONCRETE POSTSCALE: $1\frac{1}{2}'' = 1'-0''$ 

AT SHOULDER SECTION

APPROVAL RECOMMENDED:

Euchi Tanaka

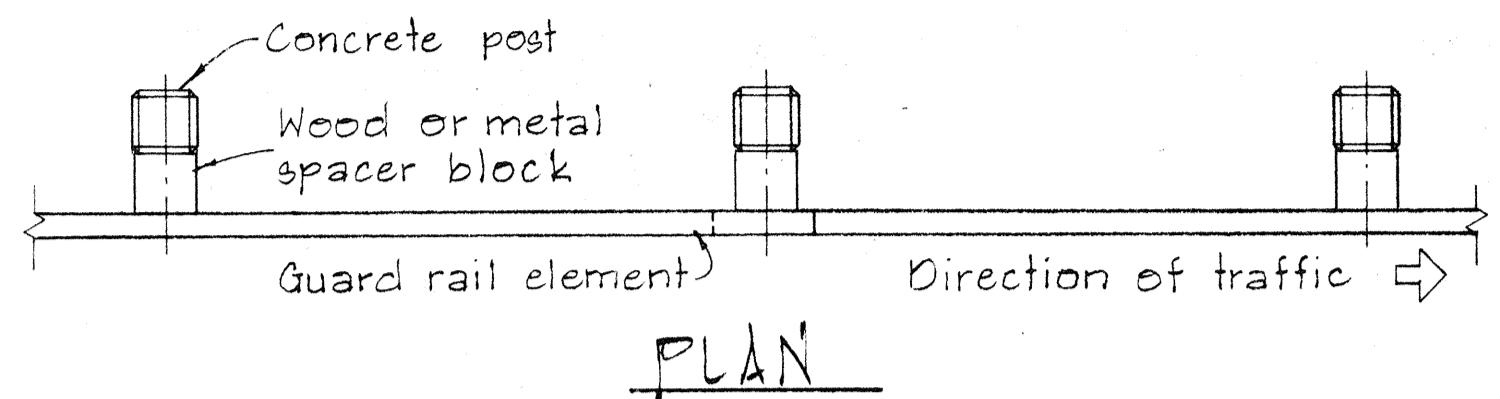
TRAFFIC ENGINEER

12/29/69
DATE

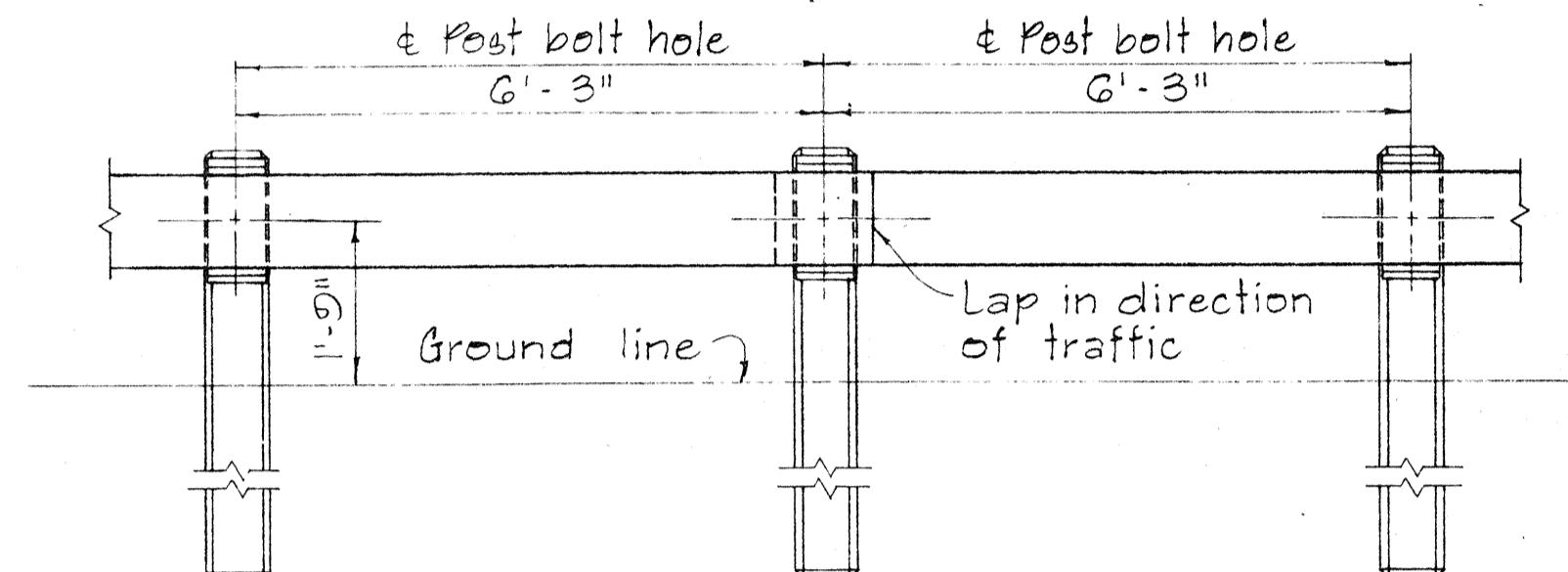
APPROVED:

Hubert S. DeLoach

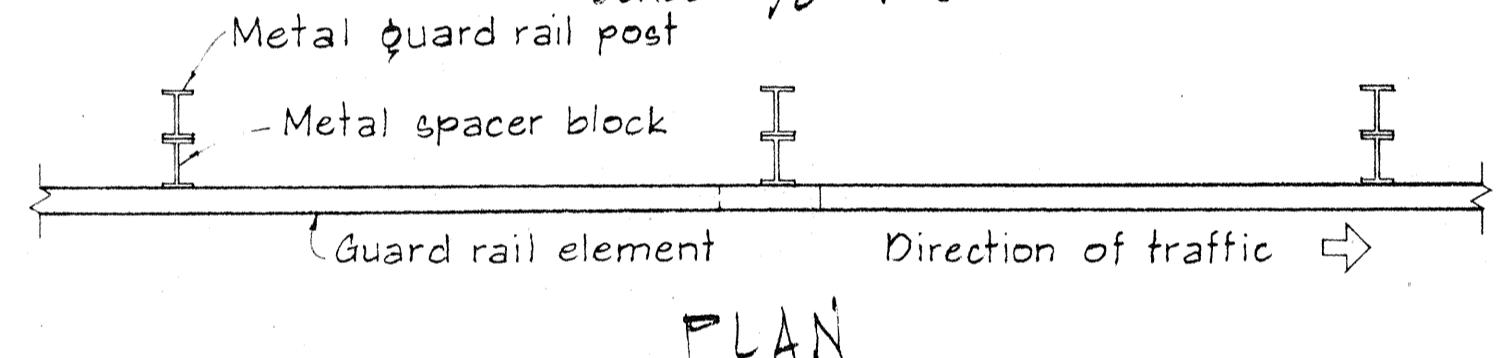
ASSISTANT CHIEF, ENGINEERING

12-30-69
DATE

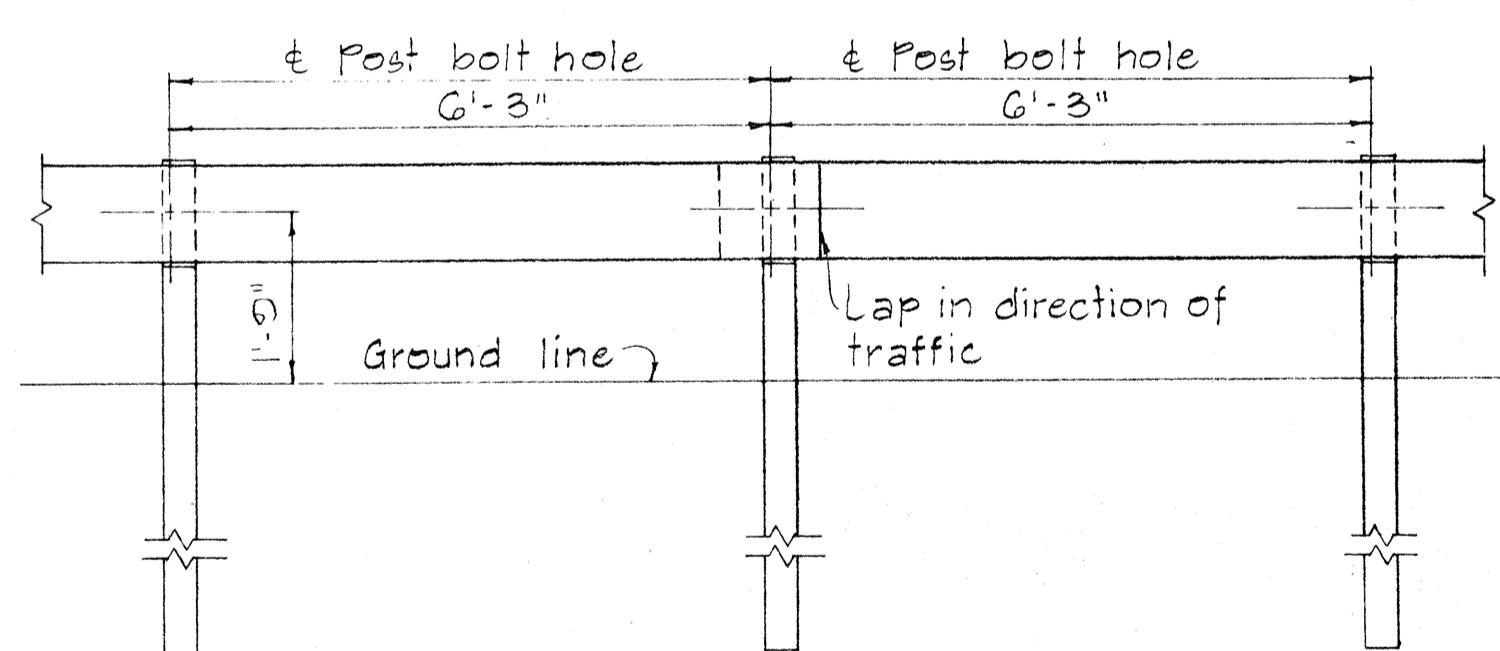
PLAN



ELEVATION

METAL GUARD RAIL ON CONCRETE POST WITH WOOD OR METAL SPACER BLOCKSCALE: $\frac{1}{2}'' = 1'-0''$ 

PLAN



ELEVATION

METAL GUARD RAIL ON METAL POST WITH METAL SPACER BLOCKSCALE: $\frac{1}{2}'' = 1'-0''$

NO.	REVISION	APPROVED BY	DATE

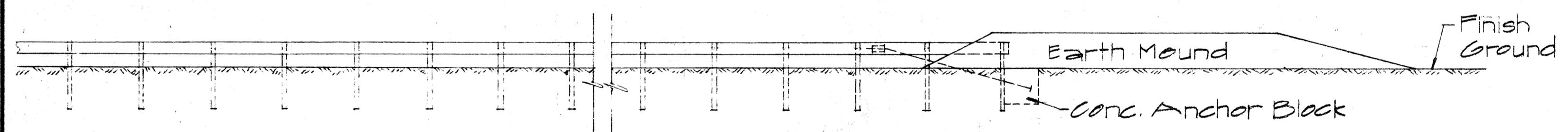
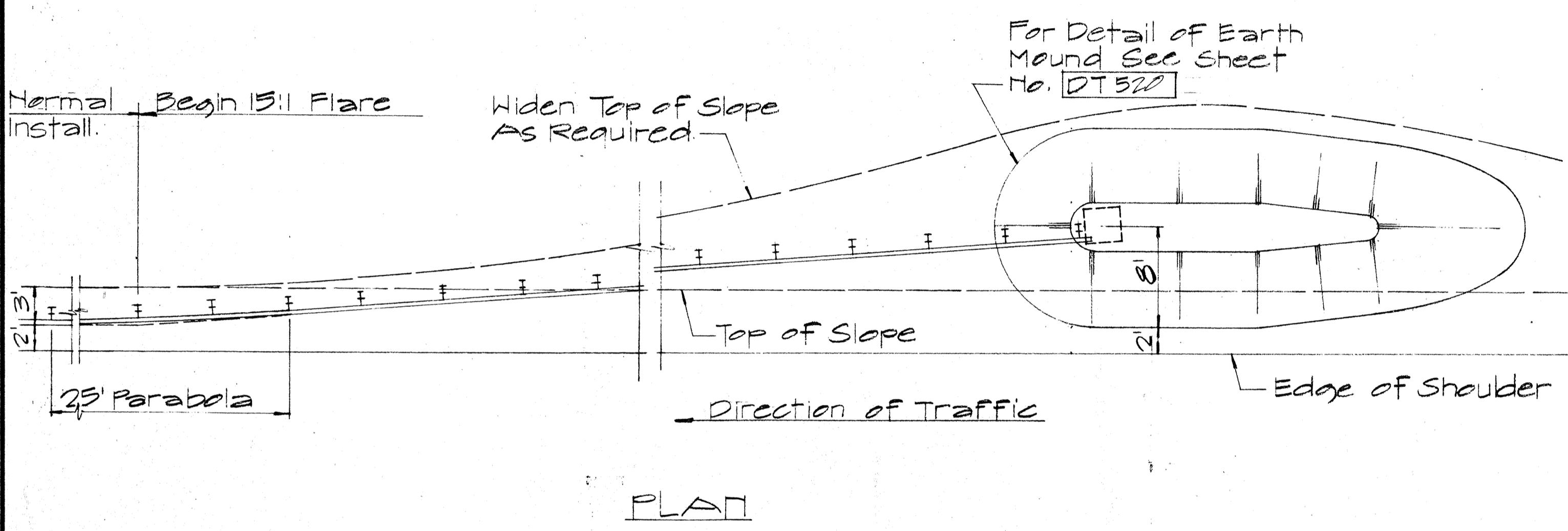
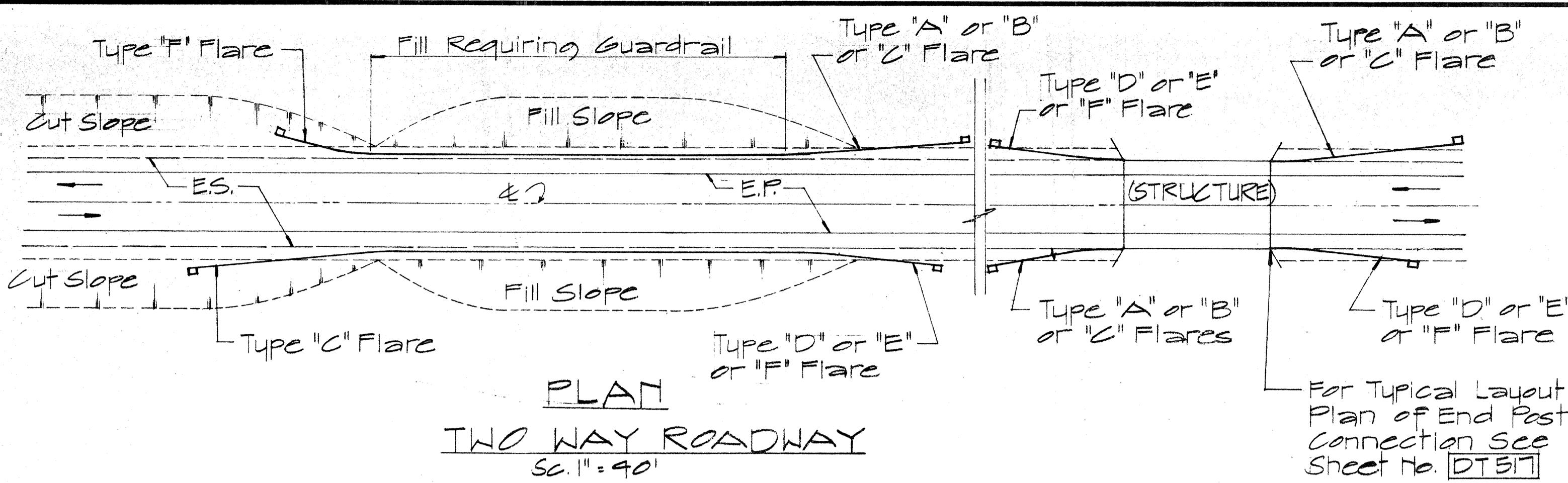
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISIONSTANDARD DETAILSMETAL GUARD RAIL

SCALE: AS SHOWN

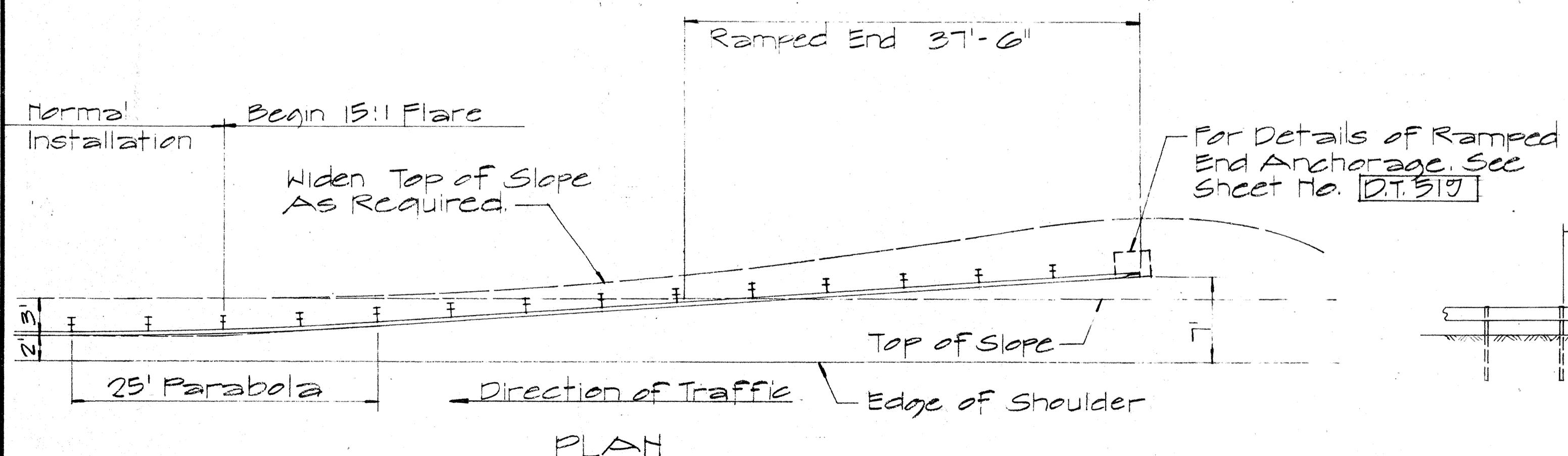
NOV. 1968

SHEET NO. 14 OF 20 SHEETS DT 500

STATE	PROJ. NO.	FISCAL YEAR	HEET NO.	TOTAL SHEETS
HAW.	IS-BC-01-71	1971	58	62

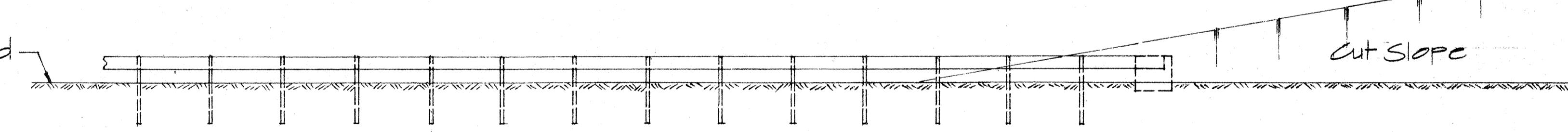
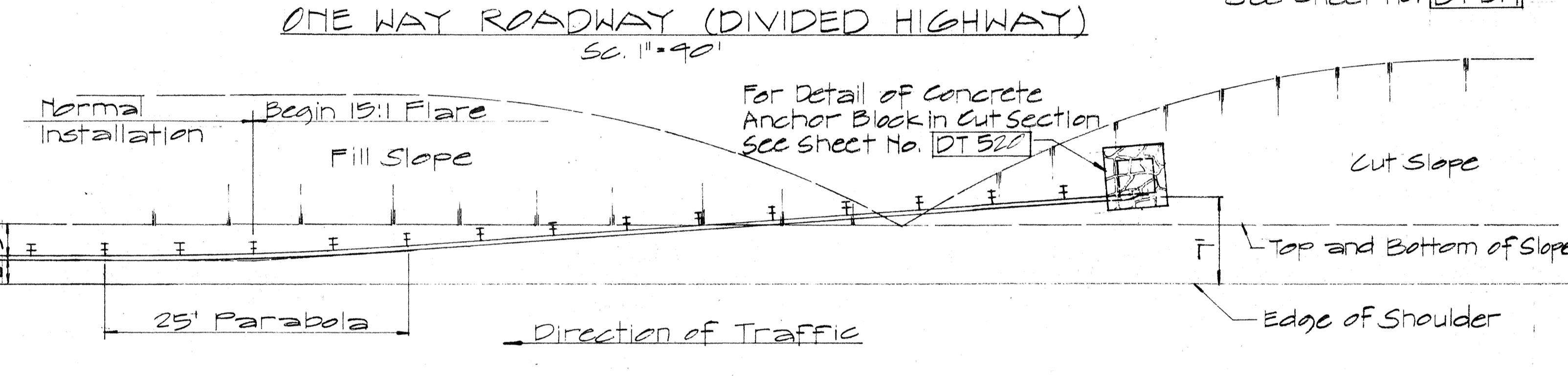
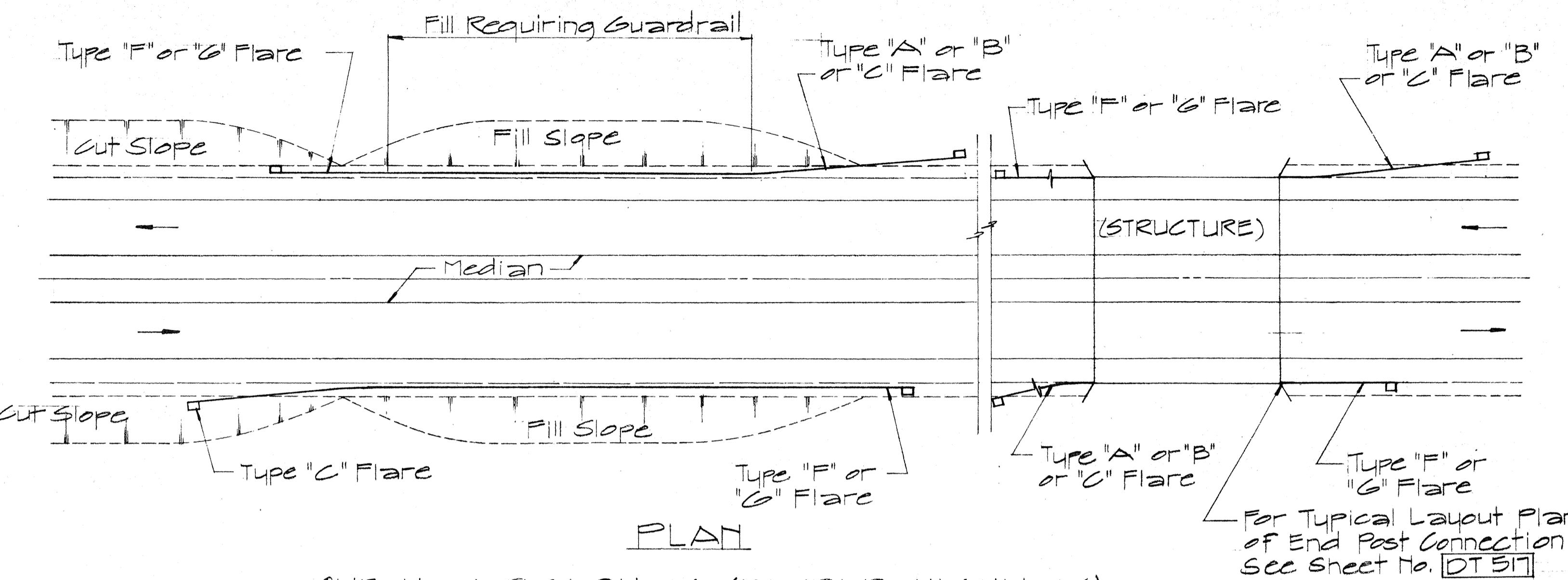


ELEVATION
TYPE "A" FLARE
Sc. 1/8" = 1'-0"

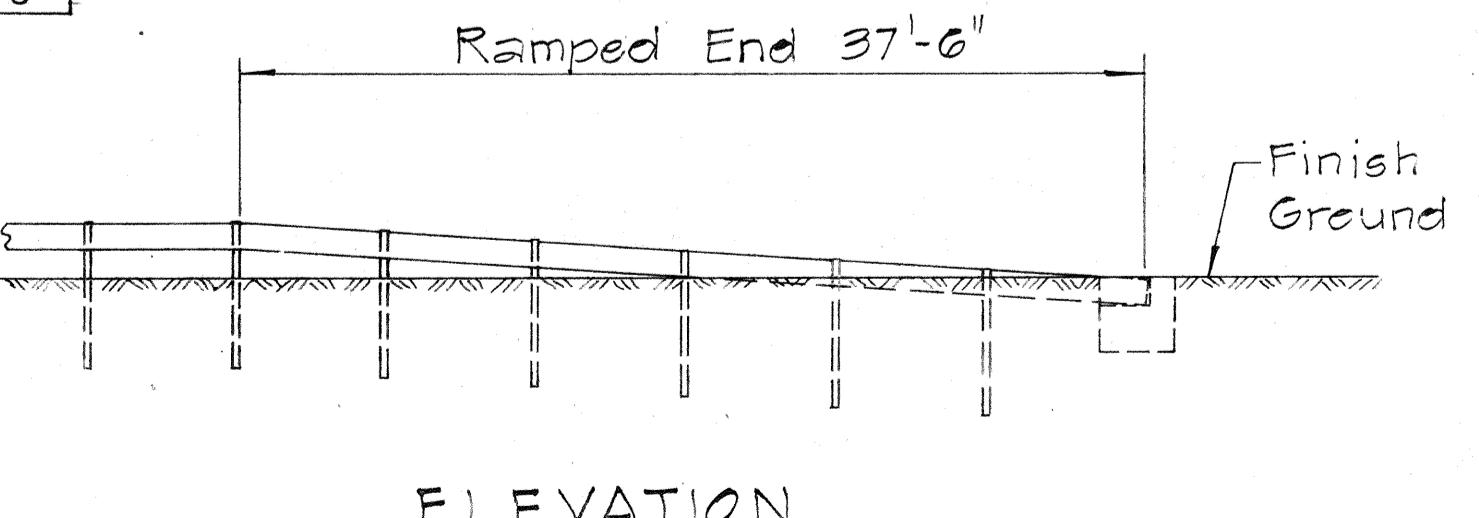


TYPE "B" FLARE
Sc. 1/8" = 1'-0"

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



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



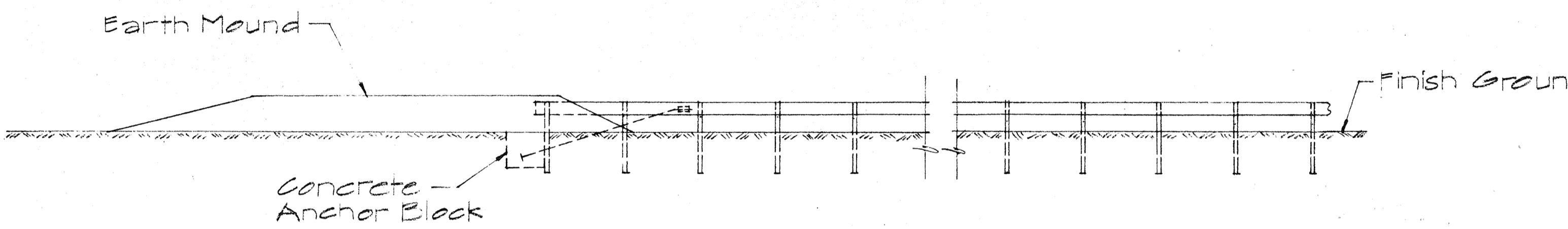
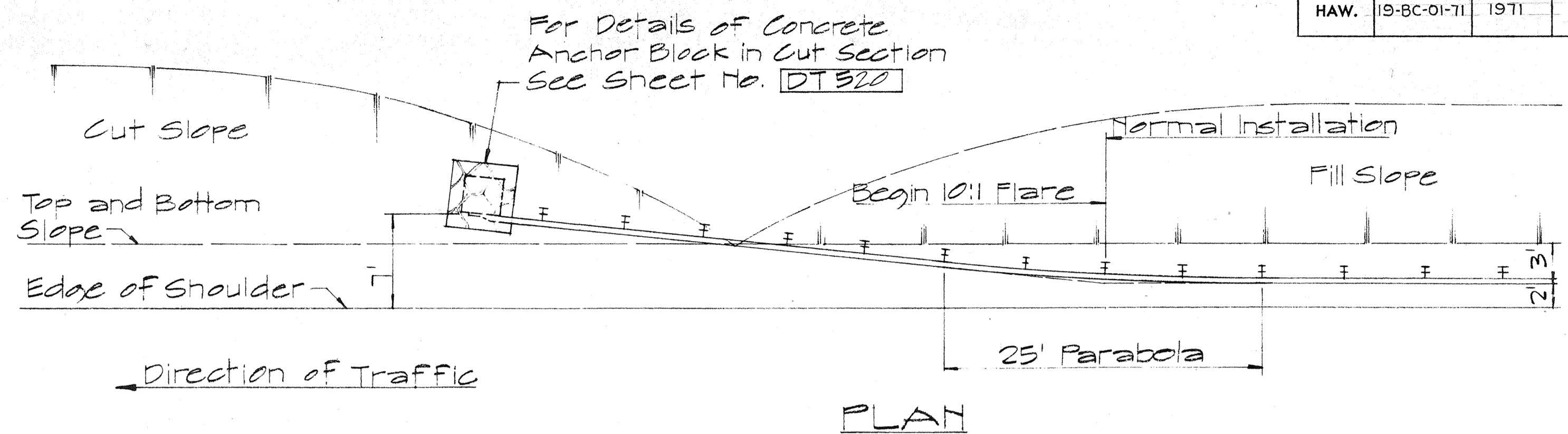
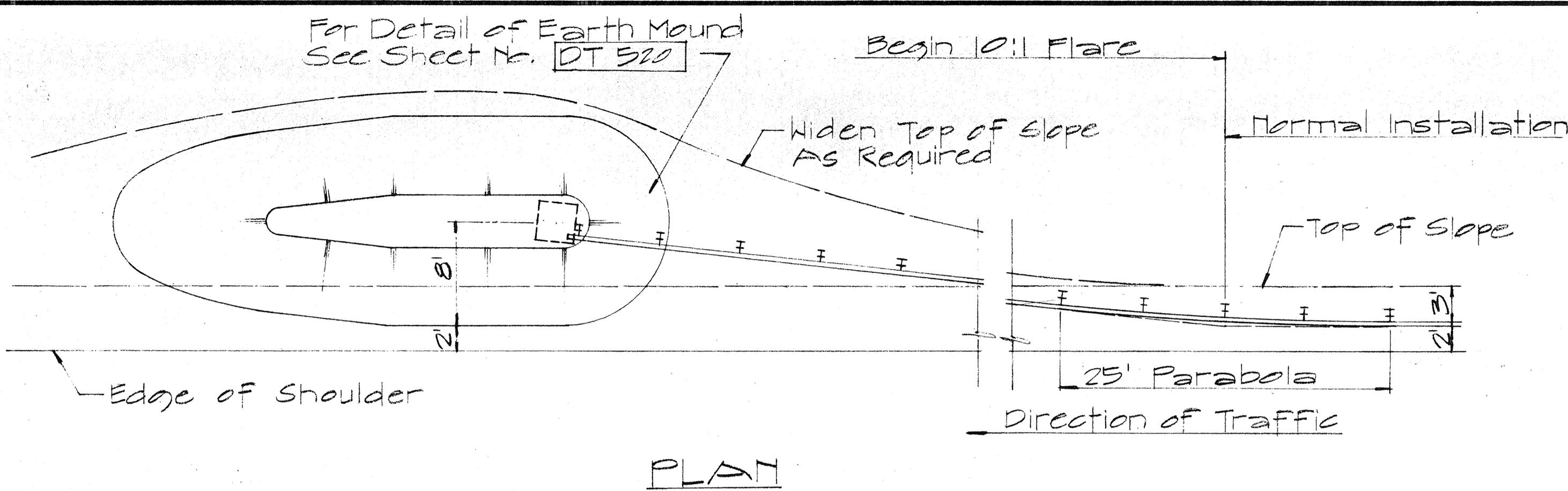
NO.	REVISION	APPROVED BY	DATE

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

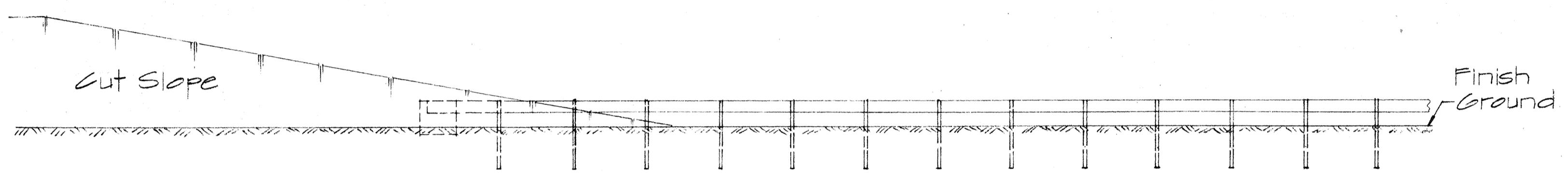
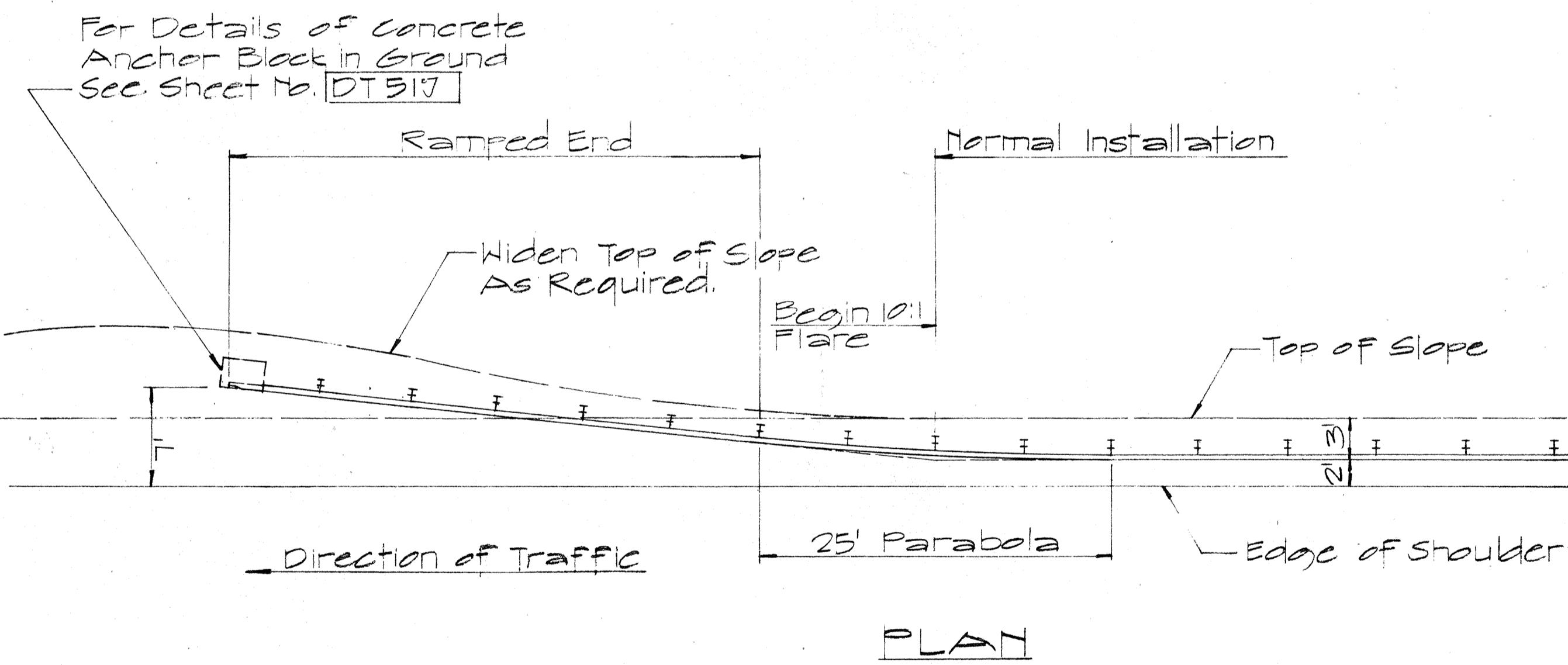
APPROVED:
John S. del
ASSISTANT CHIEF, ENGINEERING
12-30-69
DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION			
STANDARD DETAILS OF APPROACH END FLARE - ONE & TWO WAY ROADWAY			
Sc. As Noted April 1969 SHEET NO. 16 OF 20 SHEETS DT 516			

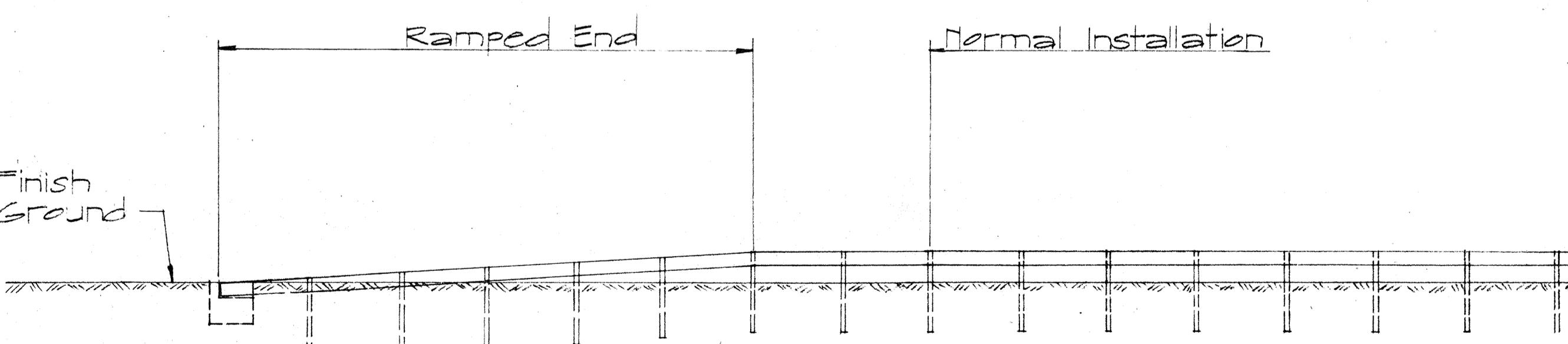
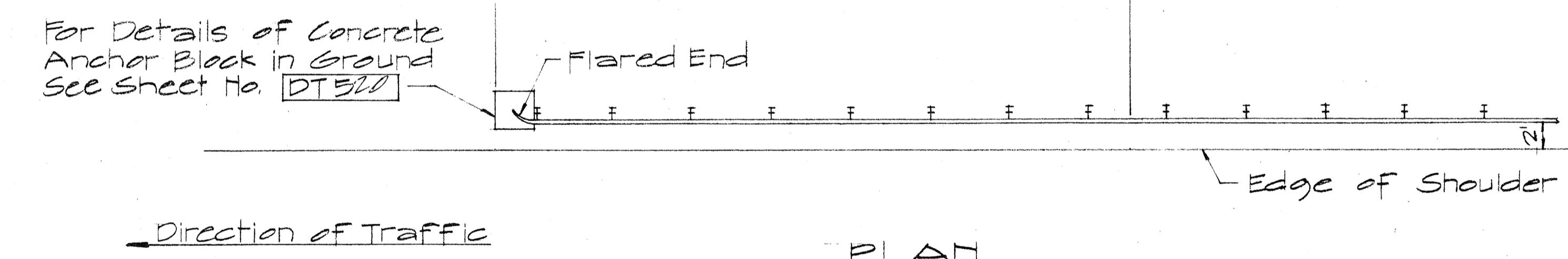
STATE	PROJ. NO.	FISCAL YEAR	HEET NO.	TOTAL SHEETS
HAW.	19-BC-01-71	1971	59	62



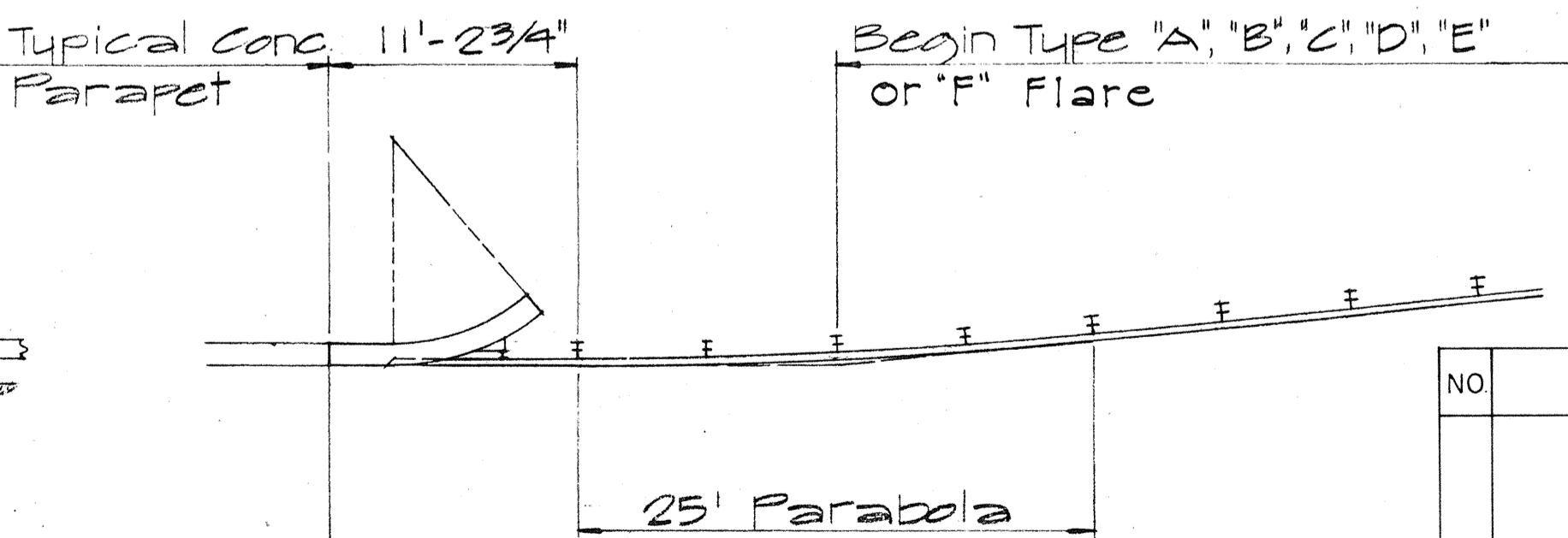
TYPE "D" FLARE
Sc. 1/8" = 1'-0"



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



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



TYPICAL LAYOUT PLAN OF END POST CONNECTION
Sc. 1/8" = 1'-0"

NO	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

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

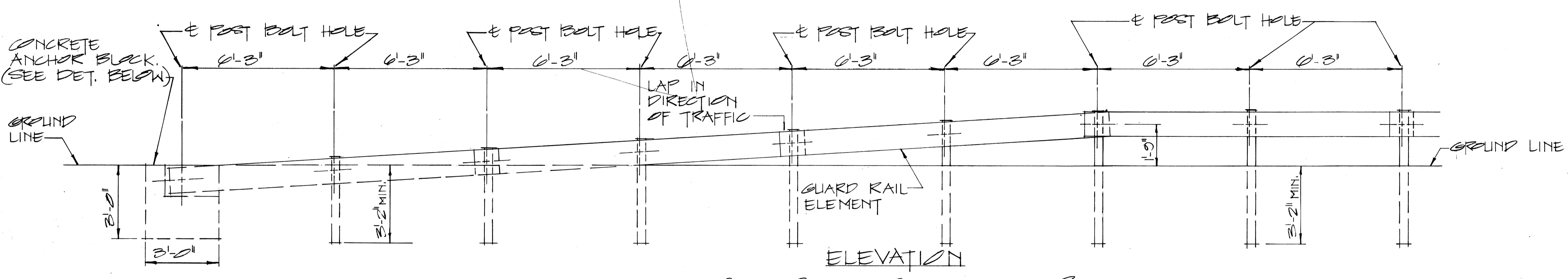
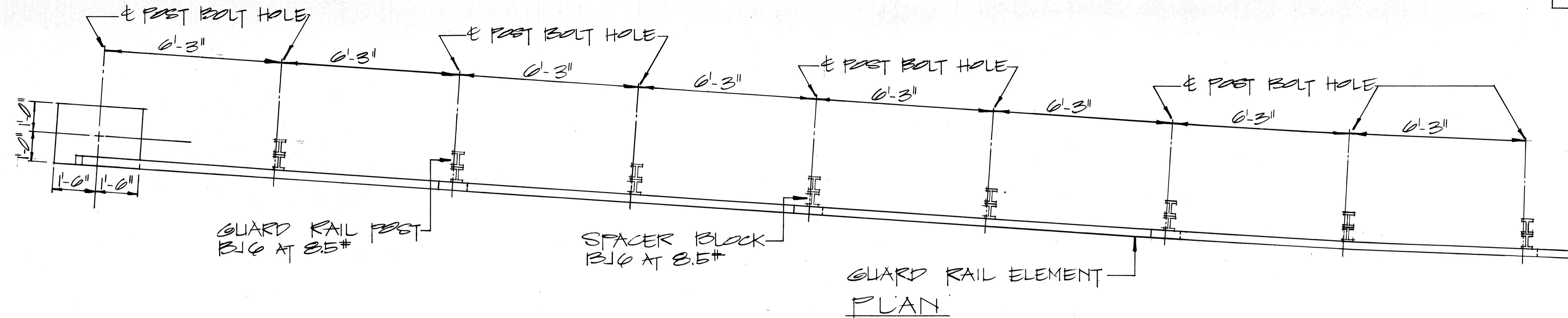
Sc. As Noted April 1960

SHEET No. 17 OF 20 SHEETS DT517

APPROVAL RECOMMENDED:
Etsushi Tanaka
TRAFFIC ENGINEER
DATE 12-29-69

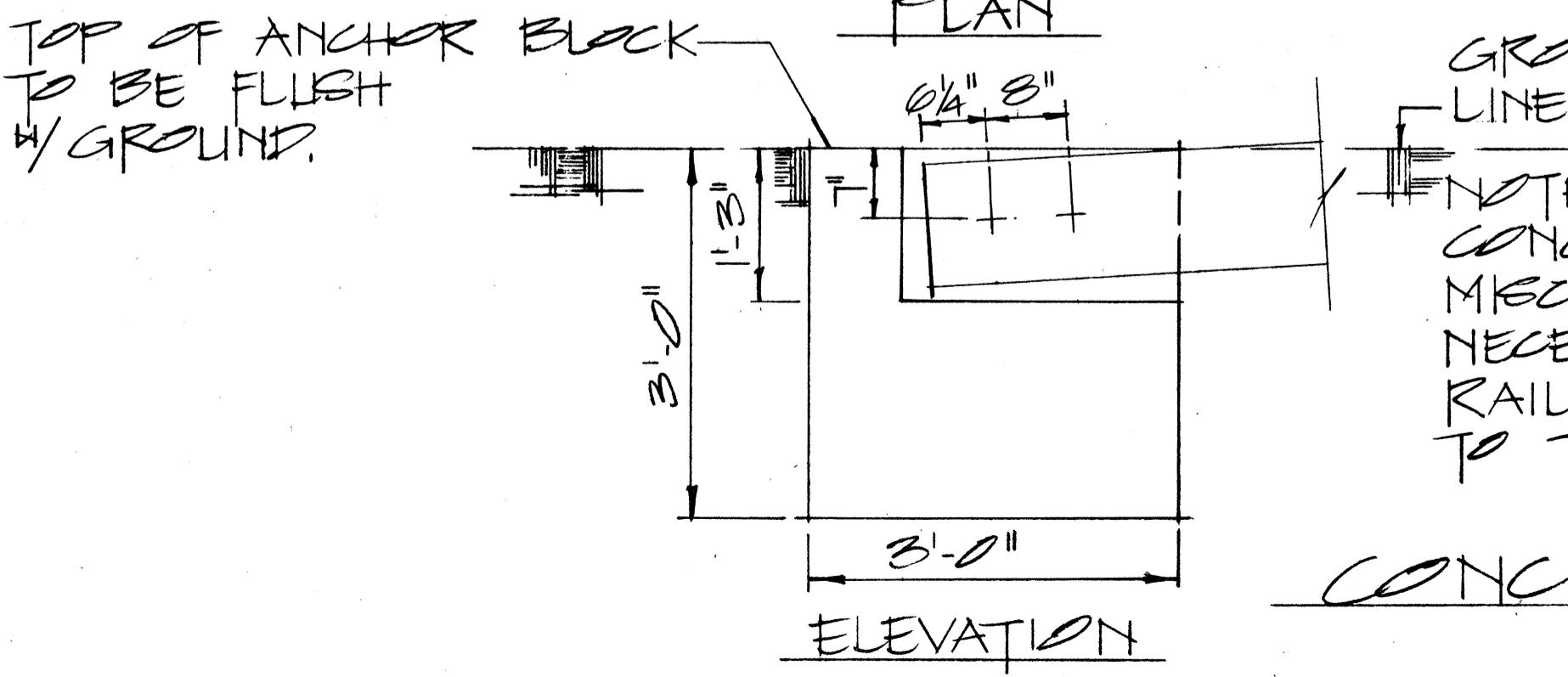
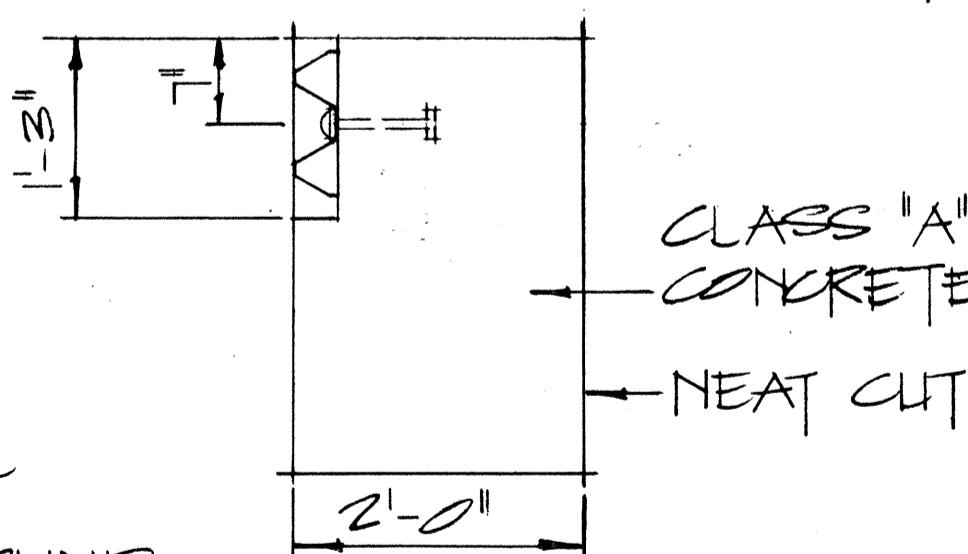
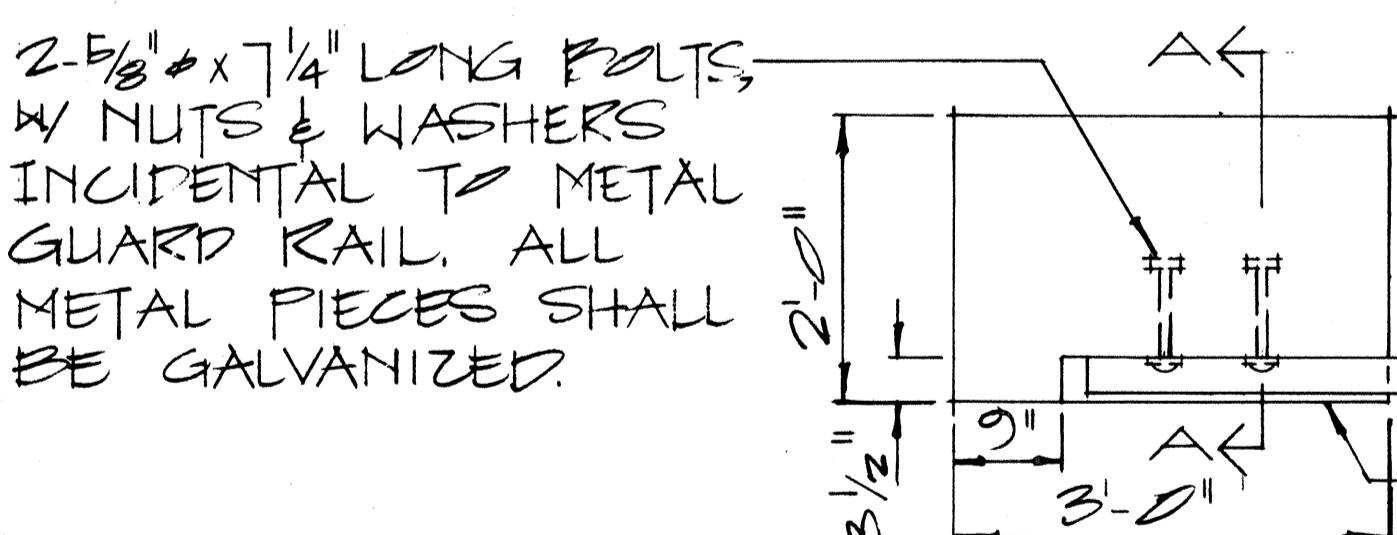
APPROVED:
John S. Kal
ASSISTANT CHIEF, ENGINEERING
DATE 12-30-69

STATE	PROJ. NO.	FISCAL YEAR	HEET NO.	TOTAL SHEETS
HAW.	198501-71	1971	60	62



RAMP END ANCHORAGE

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



SECTION "A-A"

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: $\frac{3}{4}'' = 1'-0''$

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

APPROVED:
John O. O'Dell
ASSISTANT CHIEF, ENGINEERING
DATE: 12-30-69

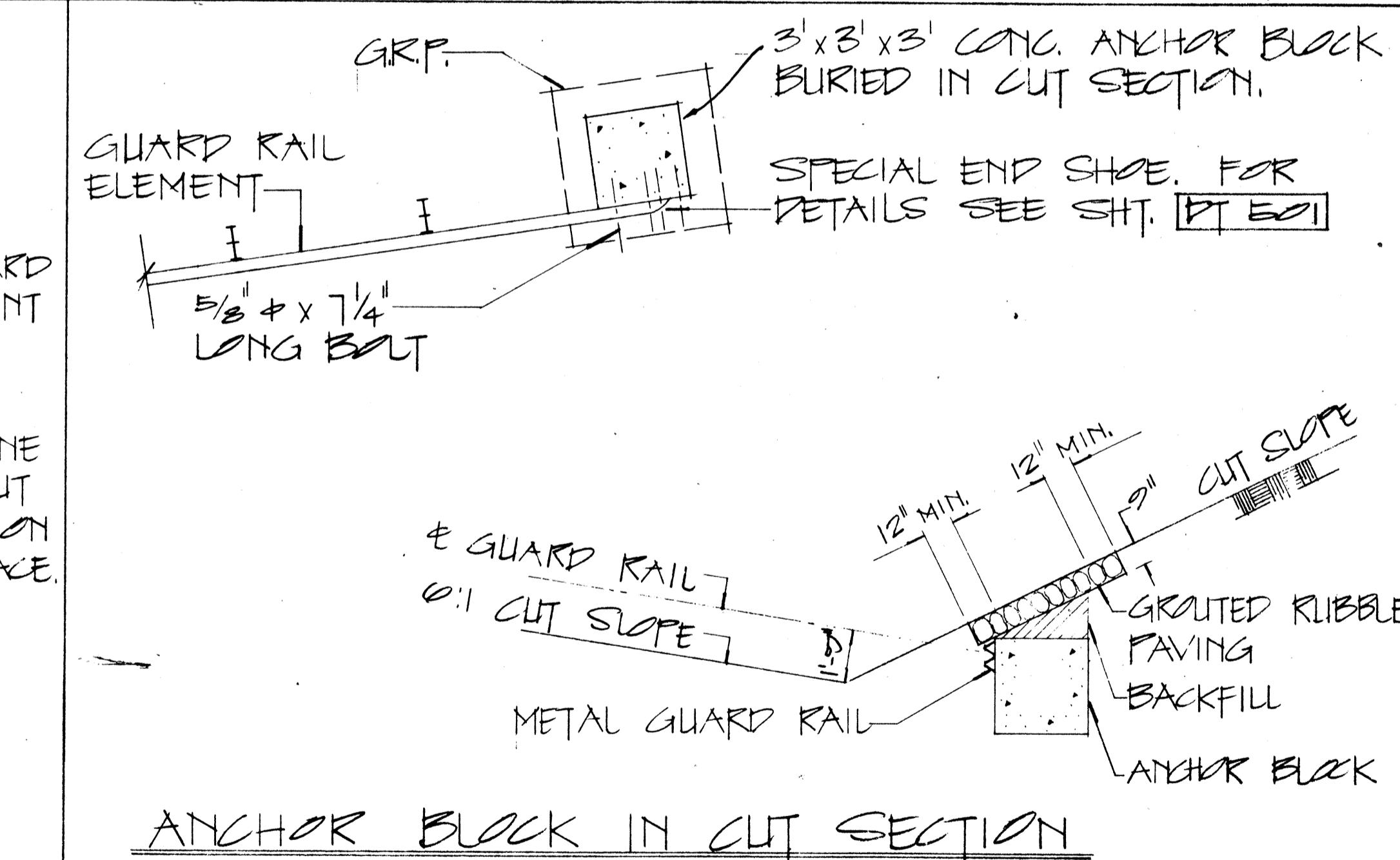
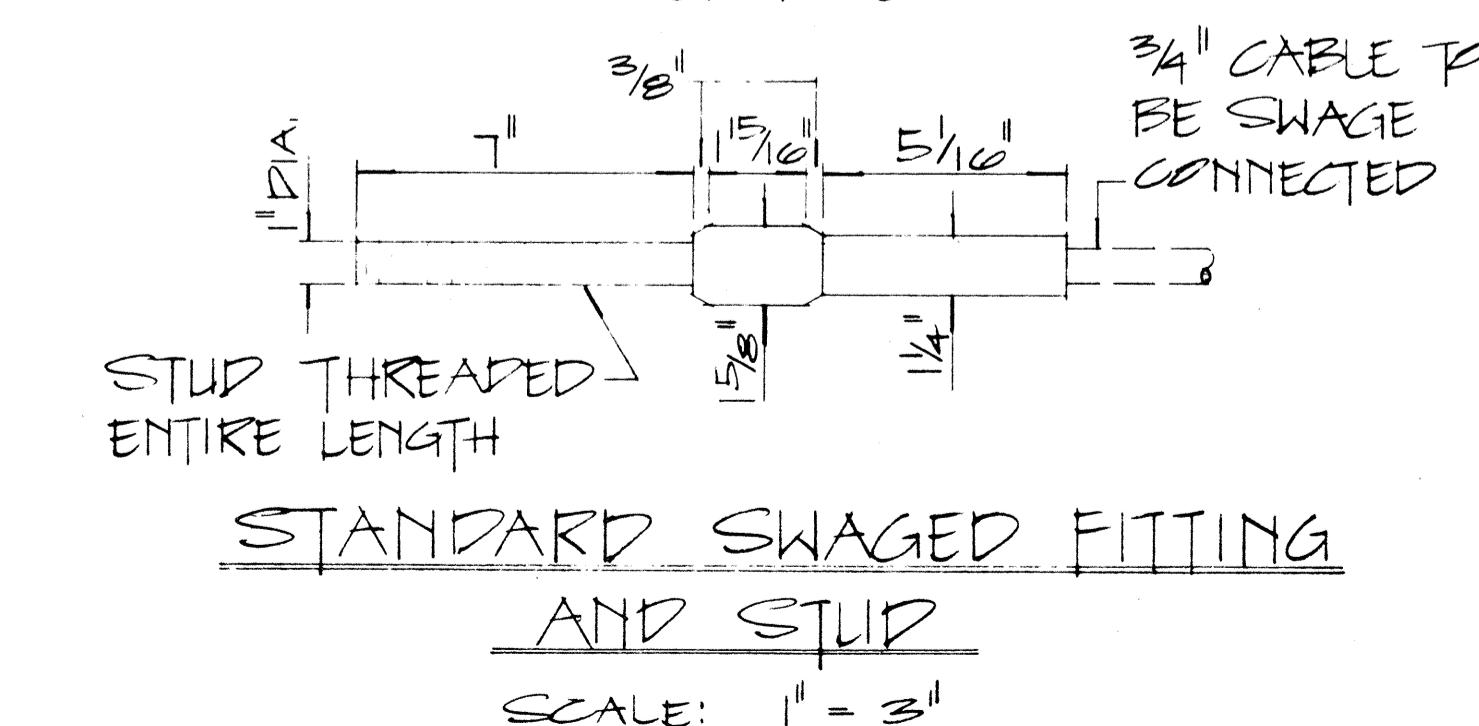
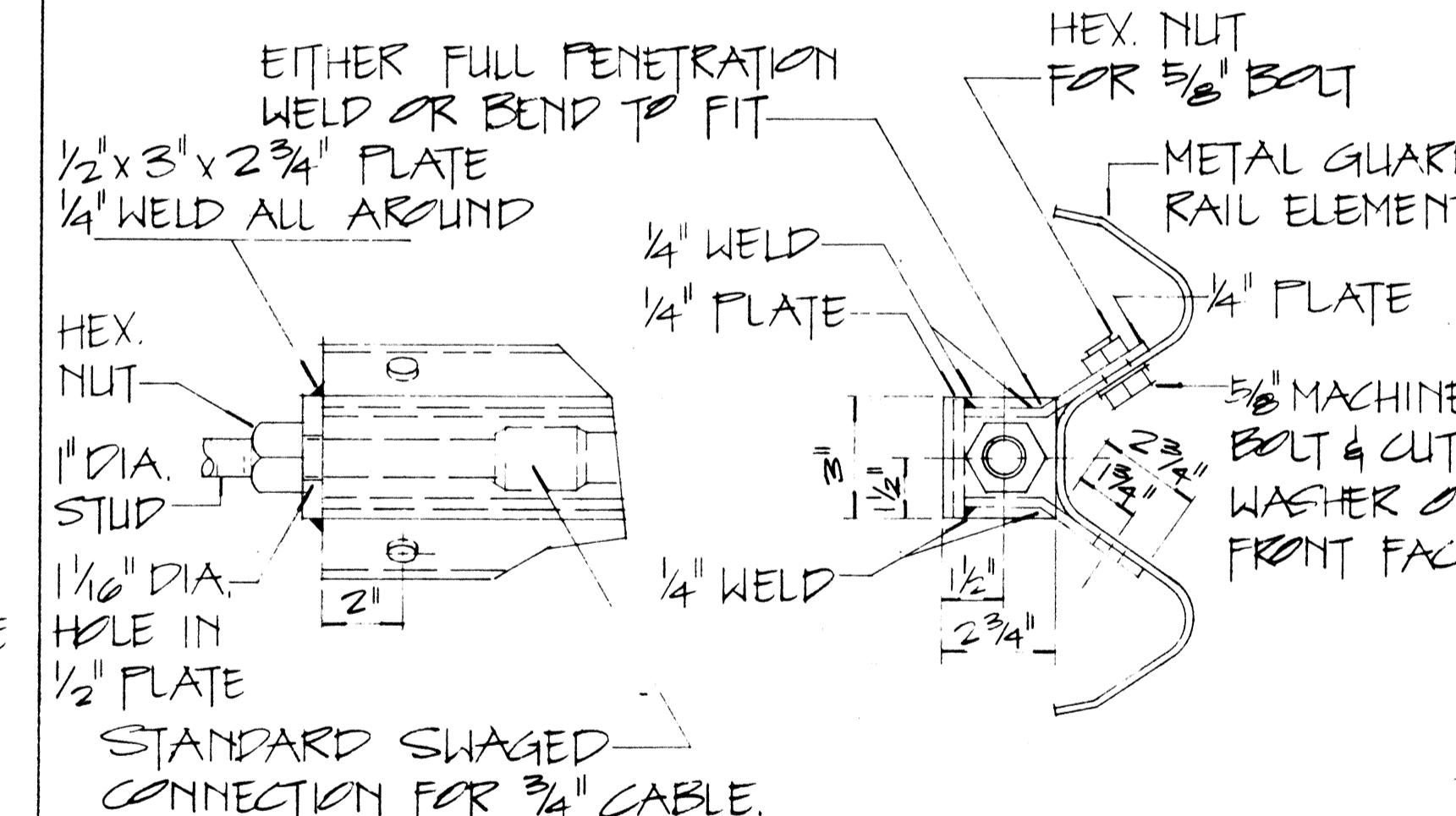
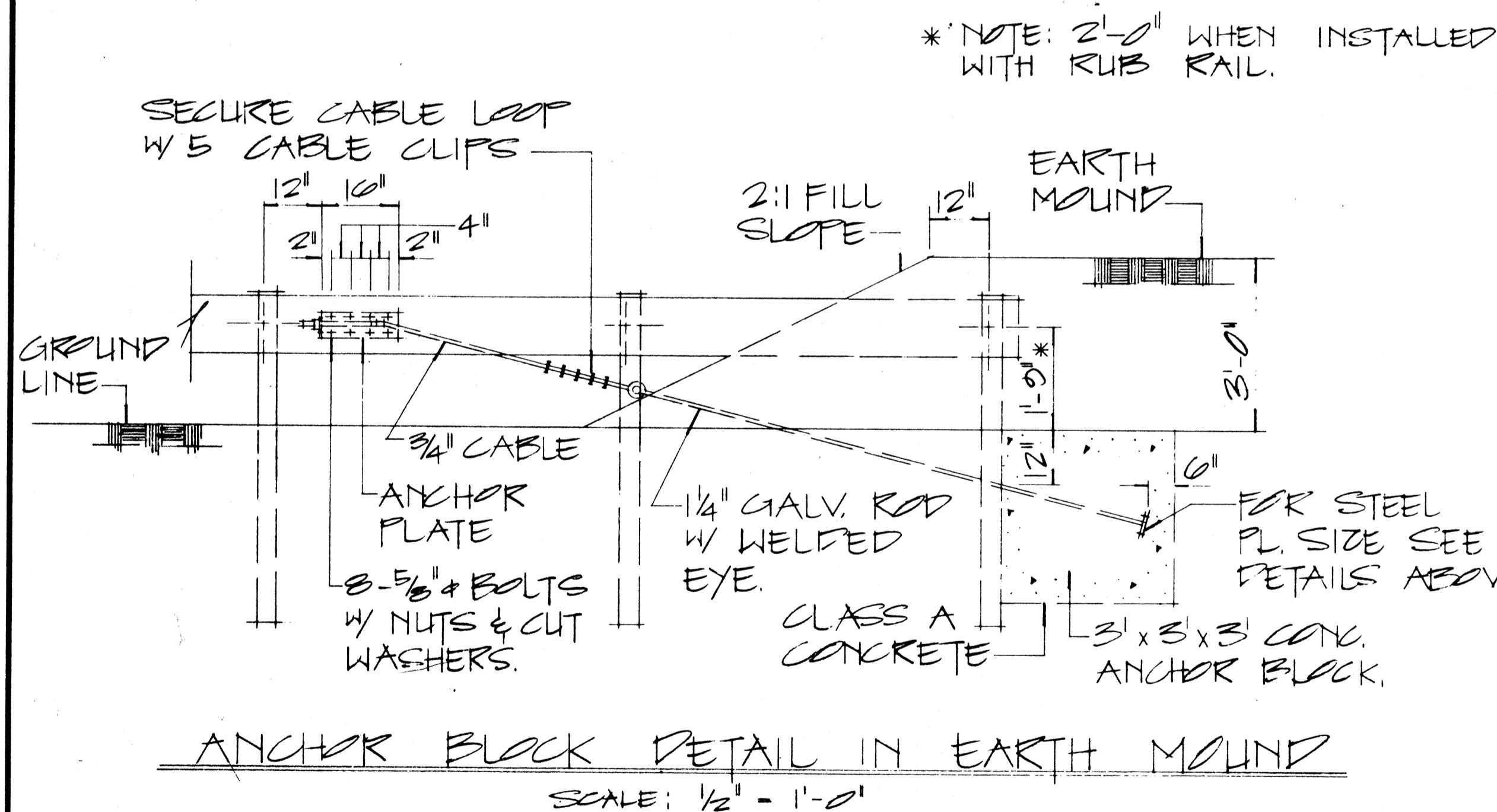
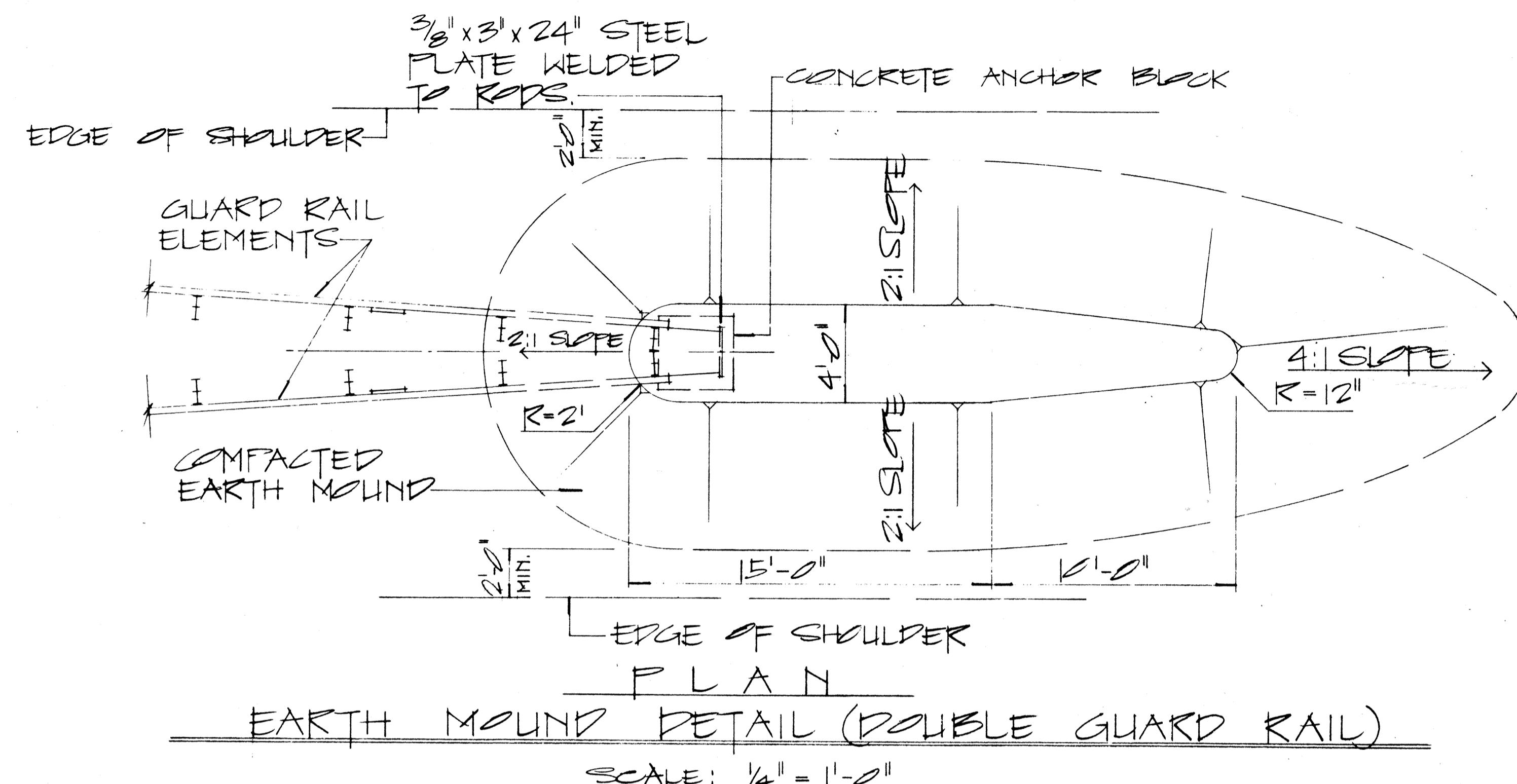
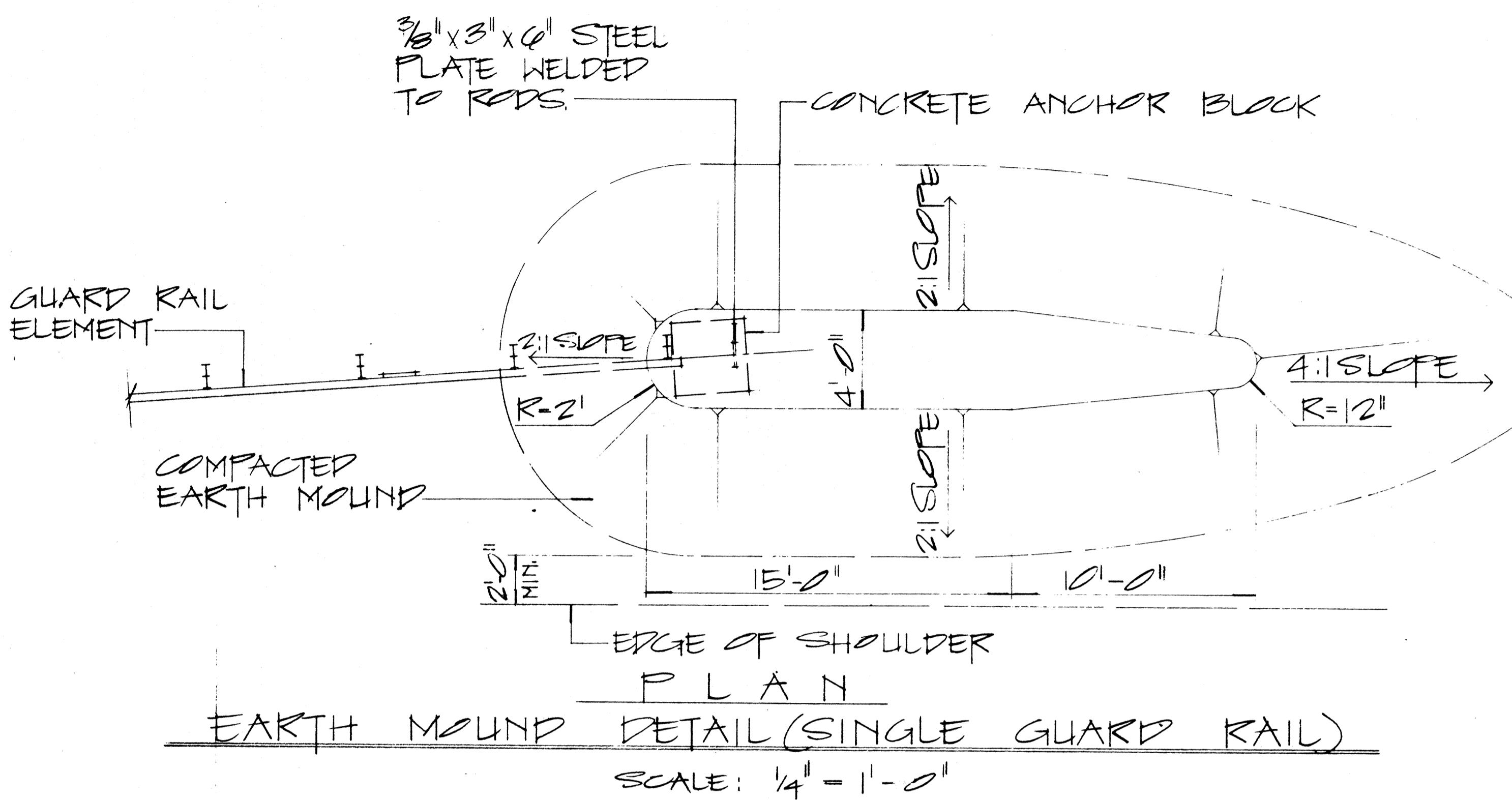
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
GUARD RAIL, TYPE 3
RAMP END ANCHORAGE

SCALE: AS SHOWN

SHEET No. 18 OF 20 SHEETS DT510

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	19BC01-7	1971	61	62



APPROVAL RECOMMENDED:	Eduardo Tanaka	DATE	
TRAFFIC ENGINEER		10/29/69	
APPROVED:	John O'Dea	DATE	
ASSISTANT CHIEF, ENGINEERING		10-30-69	
NO.	REVISION	APPROVED BY	DATE

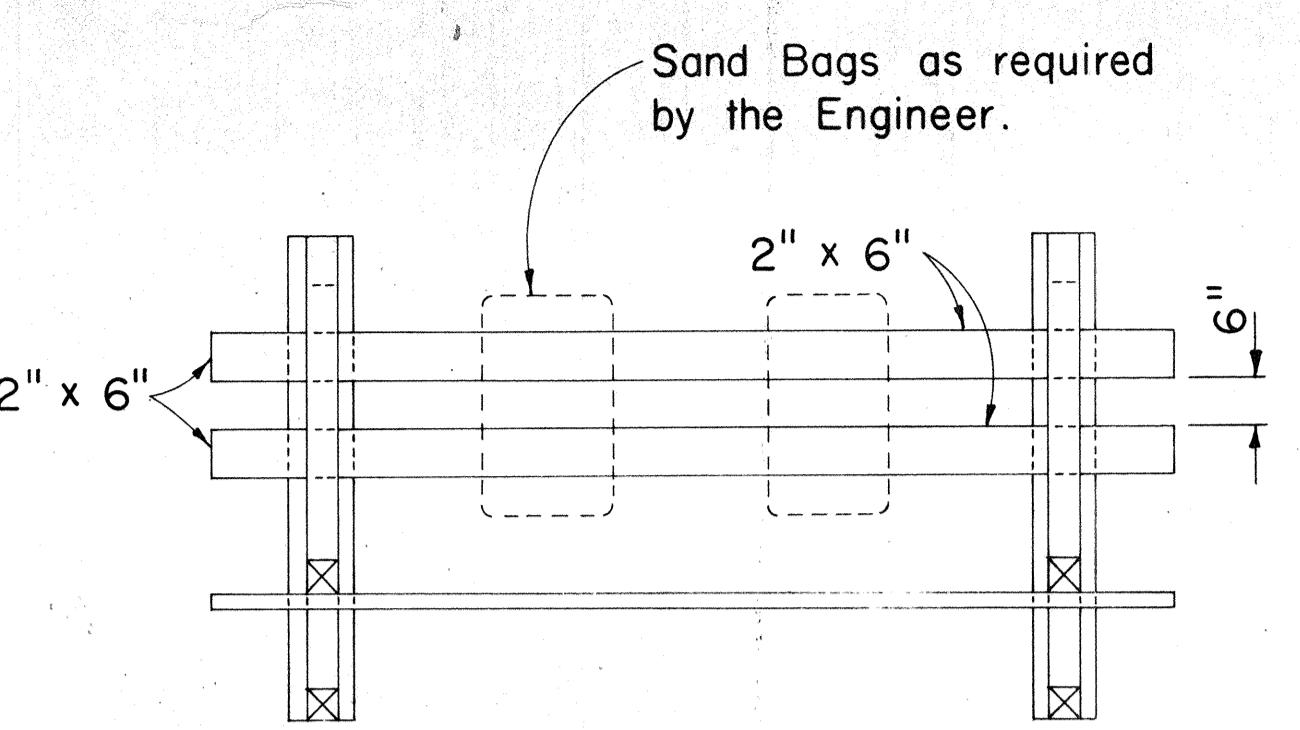
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
EARTH MOUND AND
ANCHOR BLOCK DETAILS

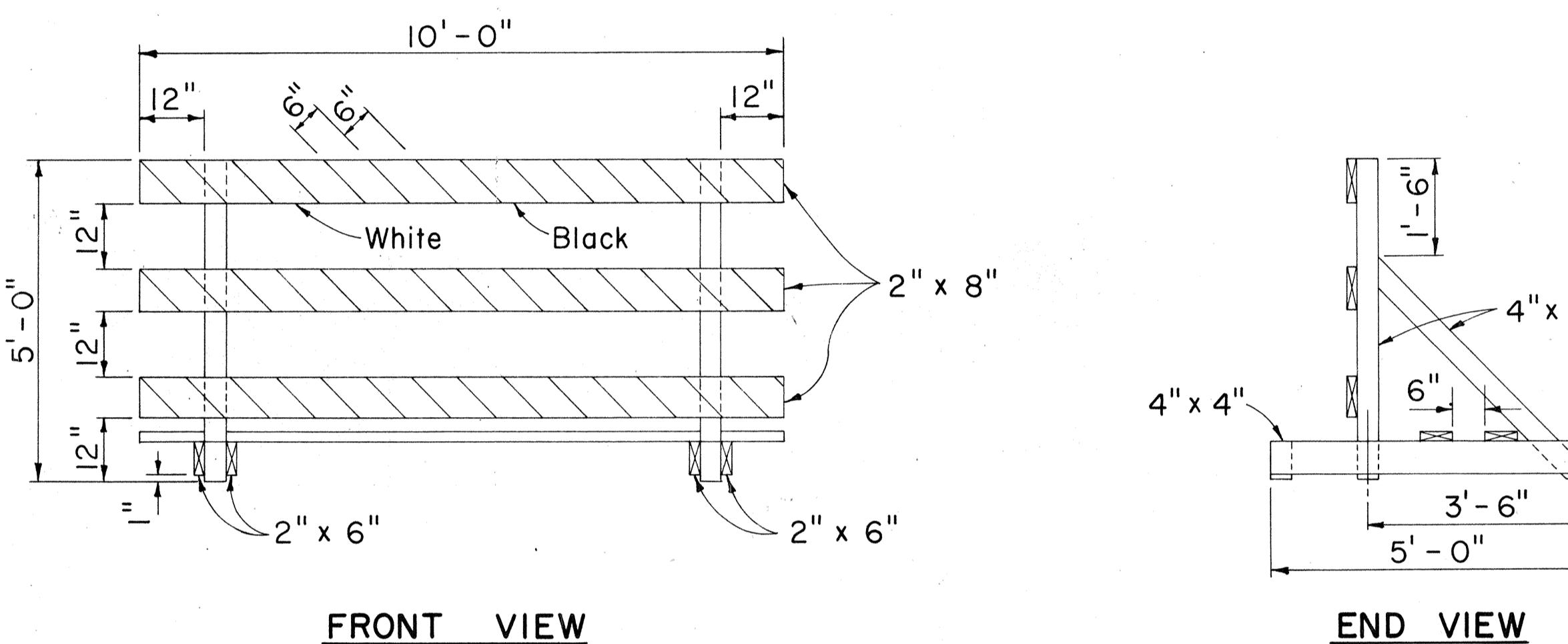
SCALE: AS SHOWN OCT 1969

SHEET NO. 19 OF 20 SHEETS DT 520

STATE	PROJ. NO.	FISCAL YEAR	HEET NO.	TOTAL SHEETS
HAW.	IS-BC-01-71	1971	62	62



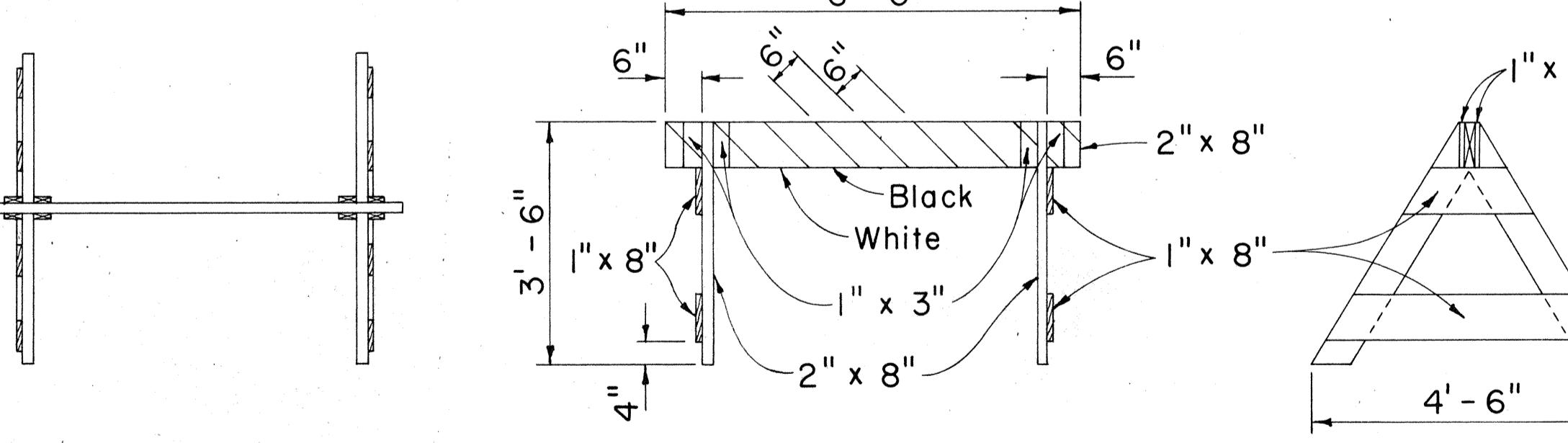
PLAN VIEW



FRONT VIEW

CLASS I BARRICADE

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



PLAN VIEW

FRONT VIEW

END VIEW

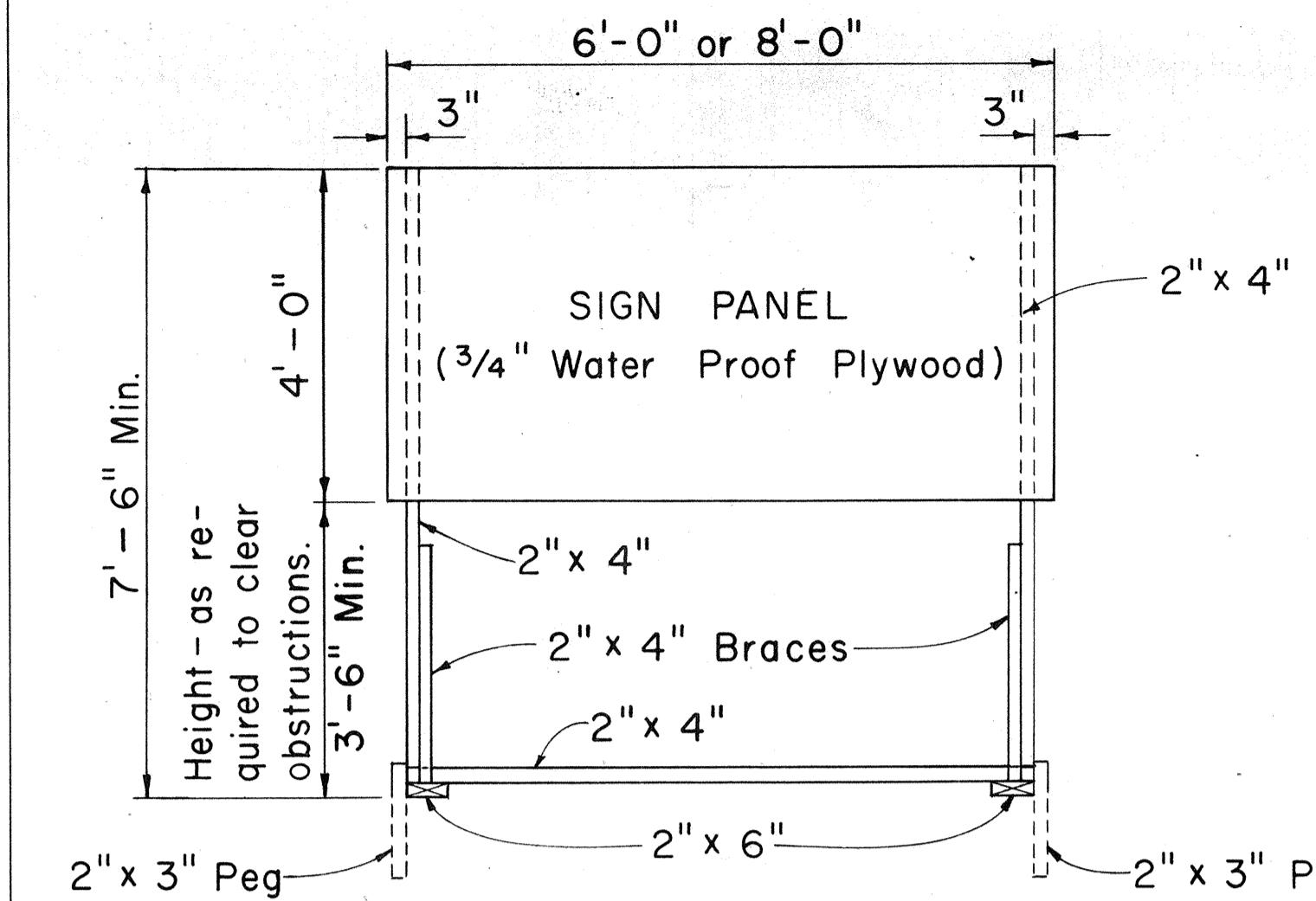
CLASS II BARRICADE

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

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

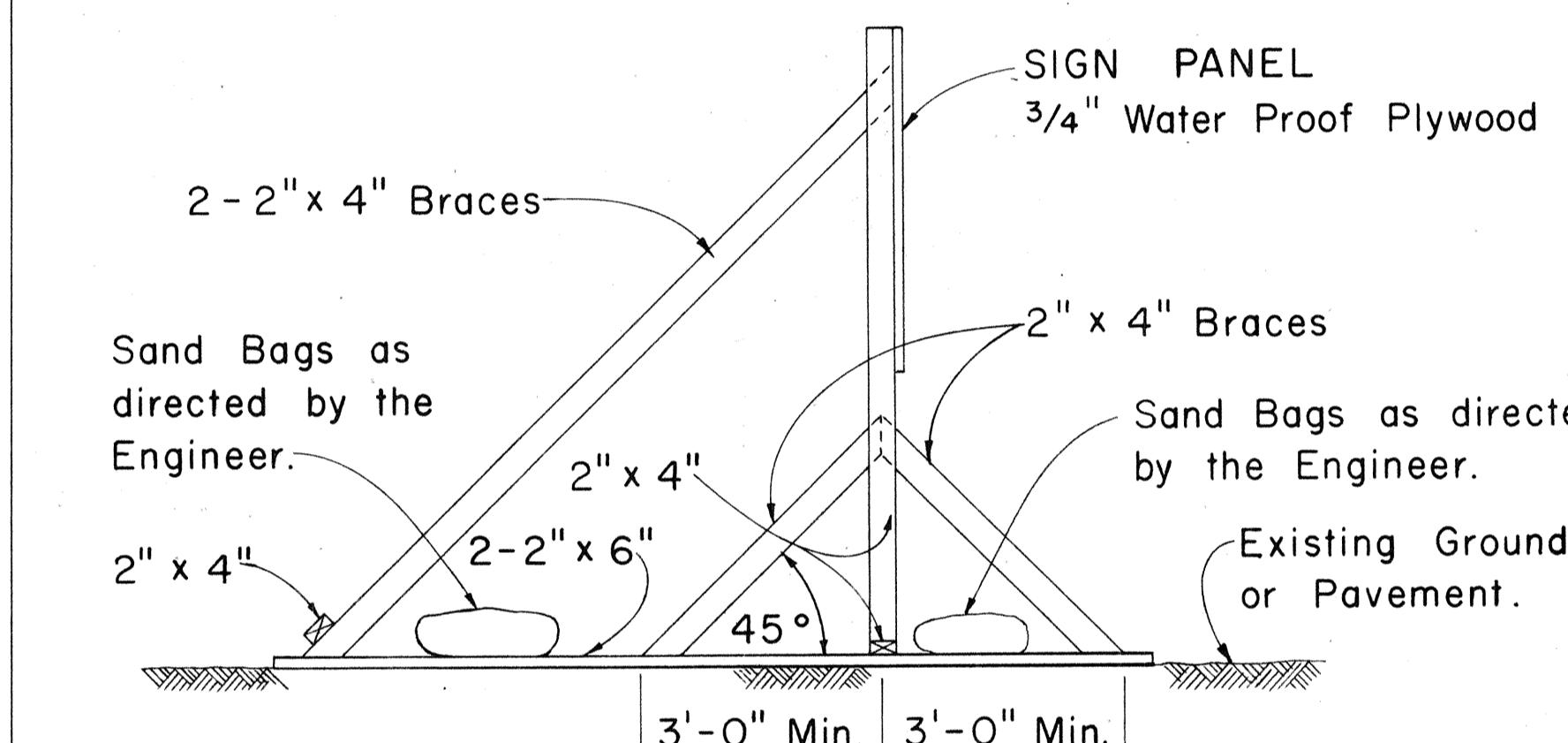
GENERAL NOTES

- The Contractor shall construct, install and maintain the wood barricades at the locations shown on the Plans.
- The permanent wood barricades shall be left in place or relocated upon completion of the project as ordered by the Engineer and are to become State property.
- The black and white stripes shall slant downward toward the side on which traffic is to pass.



FRONT VIEW

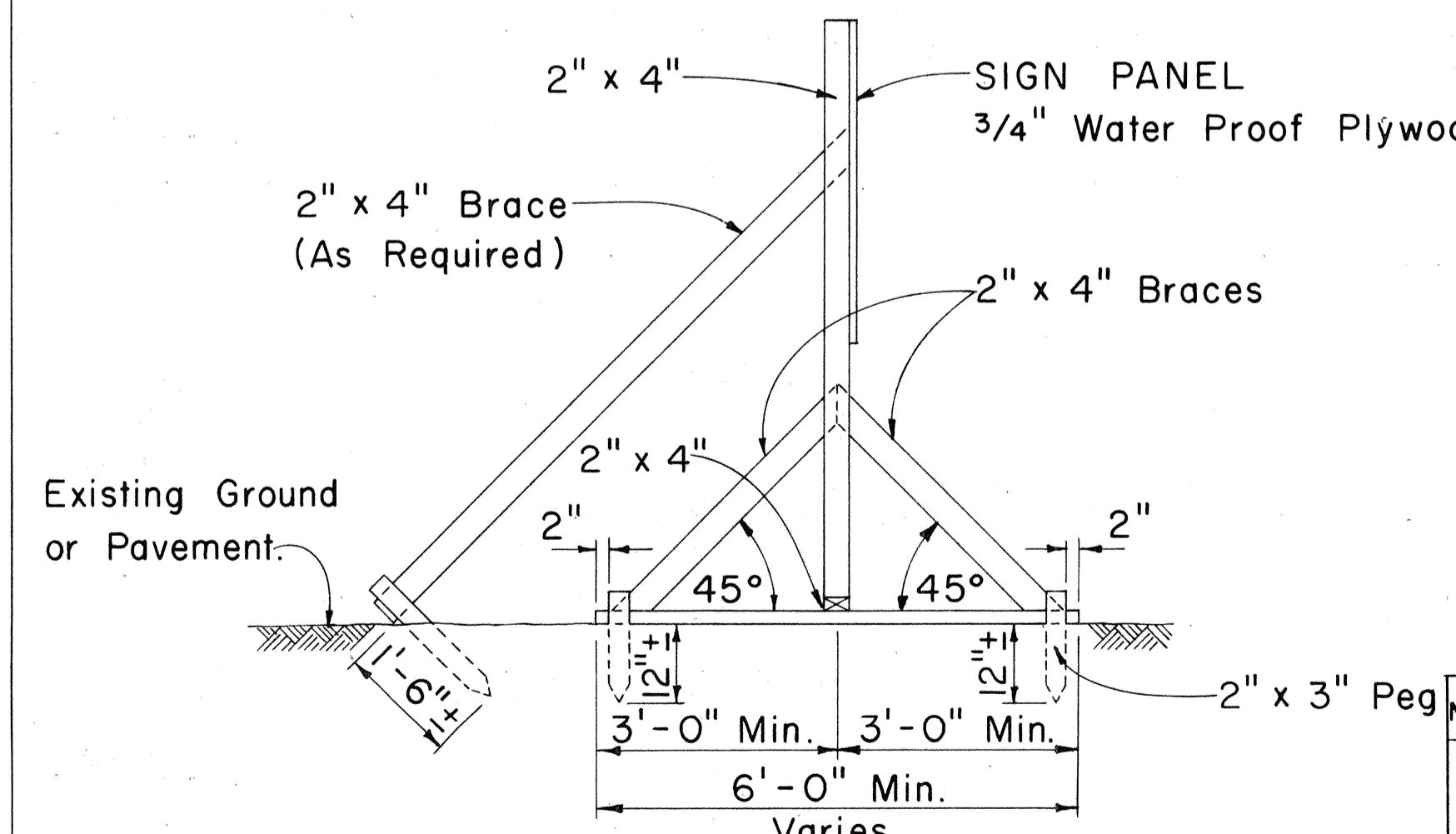
Scale: 1/2" = 1'-0"



SIDE VIEW

(SIGN FRAME WEIGHTED DOWN)

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



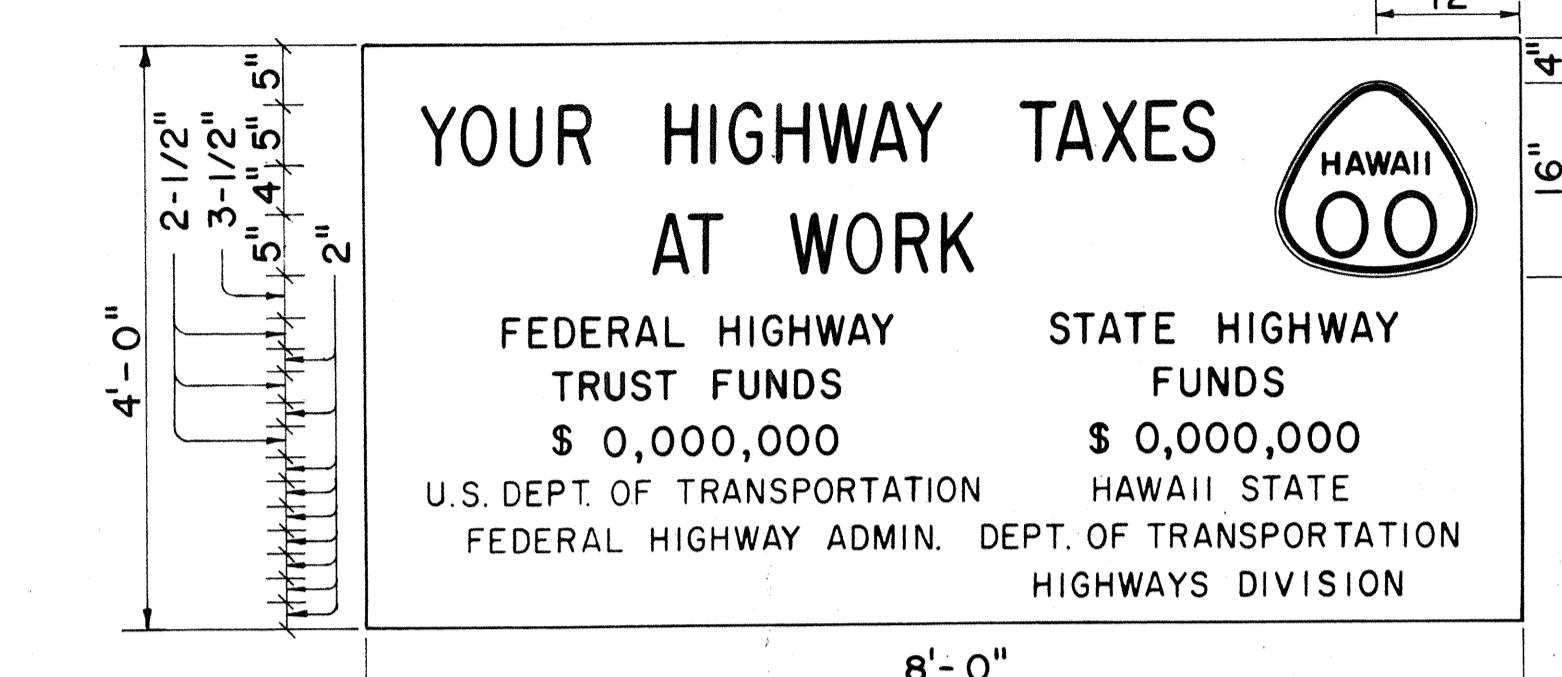
SIDE VIEW

(SIGN FRAME ANCHORED IN GROUND)

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

CONSTRUCTION IDENTIFICATION SIGN

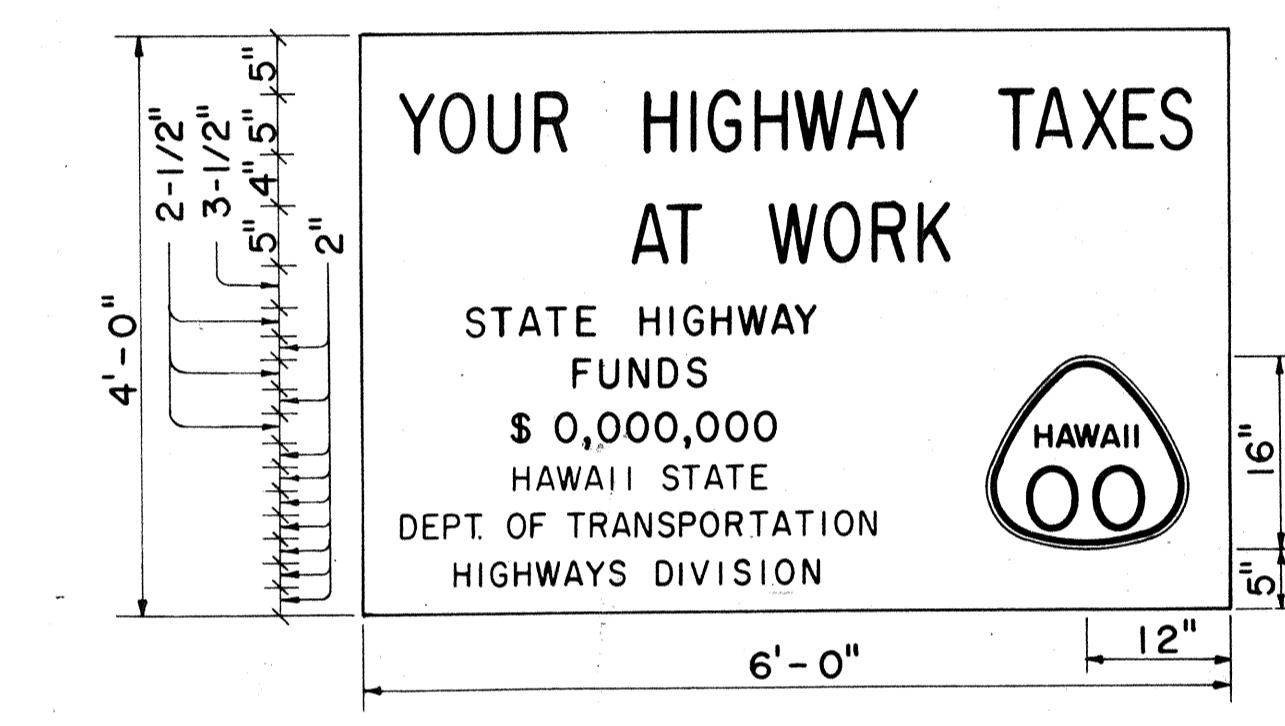
Scale: As Shown



SIGN PANEL

PRIMARY AND SECONDARY SYSTEMS

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



SIGN PANEL

NON-FEDERAL AID PROJECT

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

GENERAL NOTES

- The sign legend shall be black on white background.
- The Contractor shall construct, install and maintain the project signs at the locations shown on the plans and as ordered by the Engineer.
- Letters shall be Series "C" of the sizes shown on the plan and shall conform with the "Standard Alphabet for Highway Signs", Bureau of Public Roads, 1966
- The Contractor shall fill in the proper numerals in place of ciphers as ordered by the Engineer.

APPROVAL RECOMMENDED:
Etsuki Tanaka
TRAFFIC ENGINEER
DATE

APPROVED:
John S. Saito
ASSISTANT CHIEF, ENGINEERING
DATE

NO.	REVISION	APPROVED BY	DATE
1	Delete "Bureau of Public Roads"	H.I.	9-29-70
2	Add Note No. 3 for Barricades	H.I.	5-4-71

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL DETAILS
CONSTRUCTION IDENTIFICATION SIGN
AND
WOOD BARRICADES

Scale: As Shown Date:
SHEET No. 20 OF 20 SHEETS DT 801