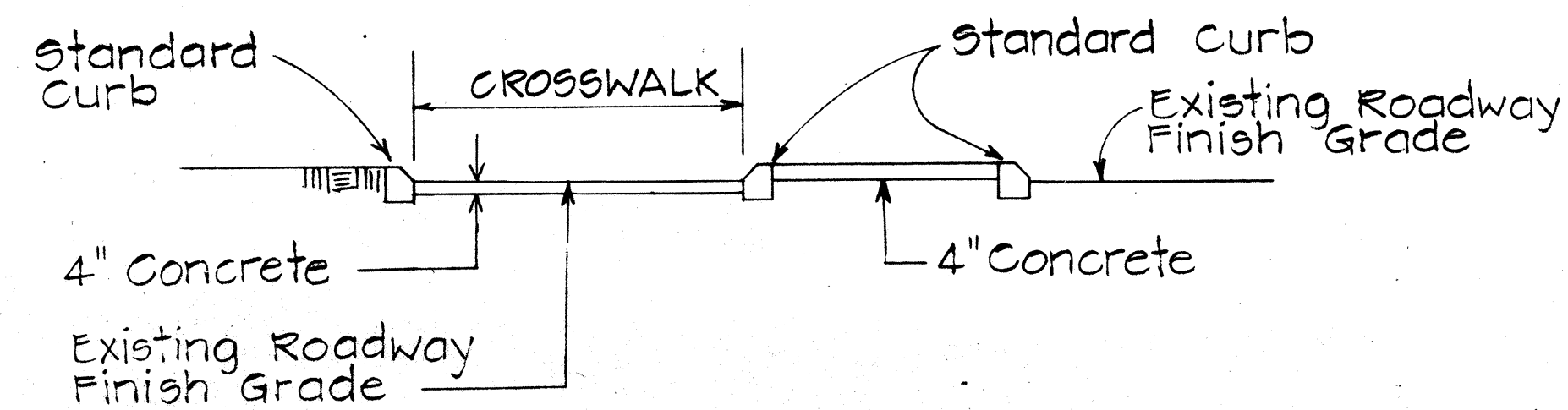


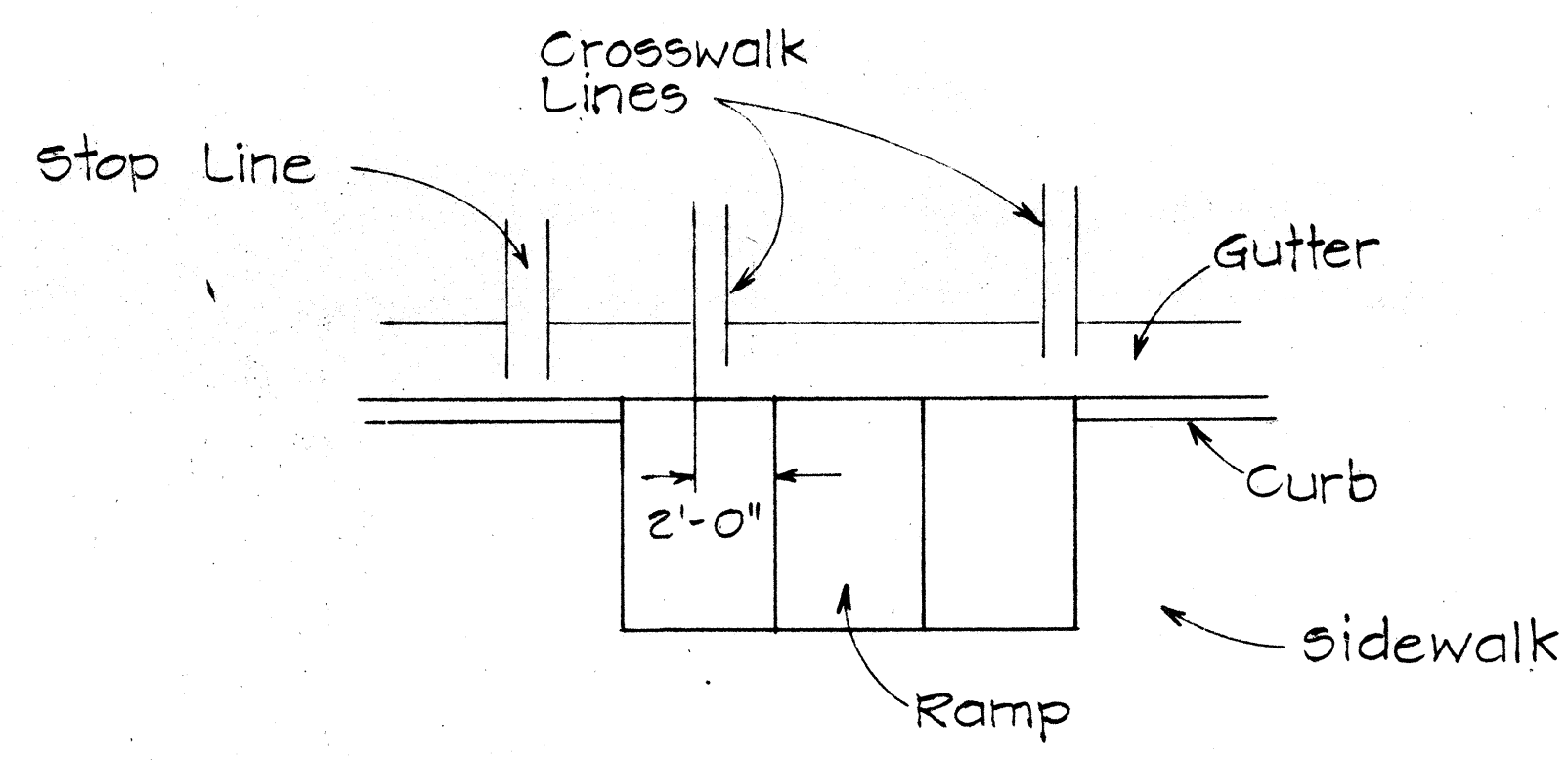
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-076-1(1)	1986	19	121



SECTION "A-A"

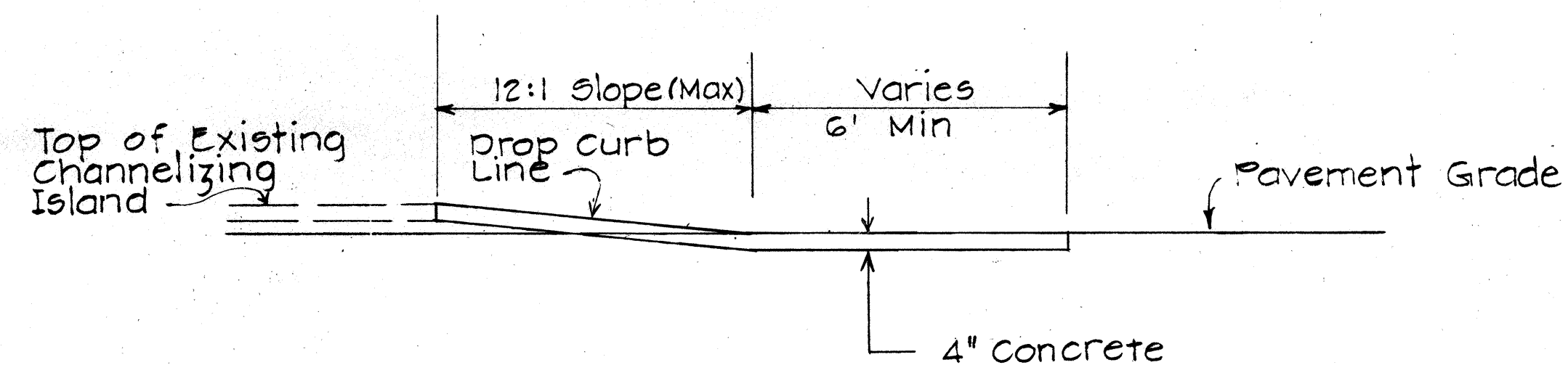
Use at Median Nose Crossings
Scale: 1" = 5'

For Additional Details, See Type C Wheel Chair Ramp



TYPICAL INSTALLATION AT CROSSWALKS

Scale: 1" = 5'



SECTION "B-B"

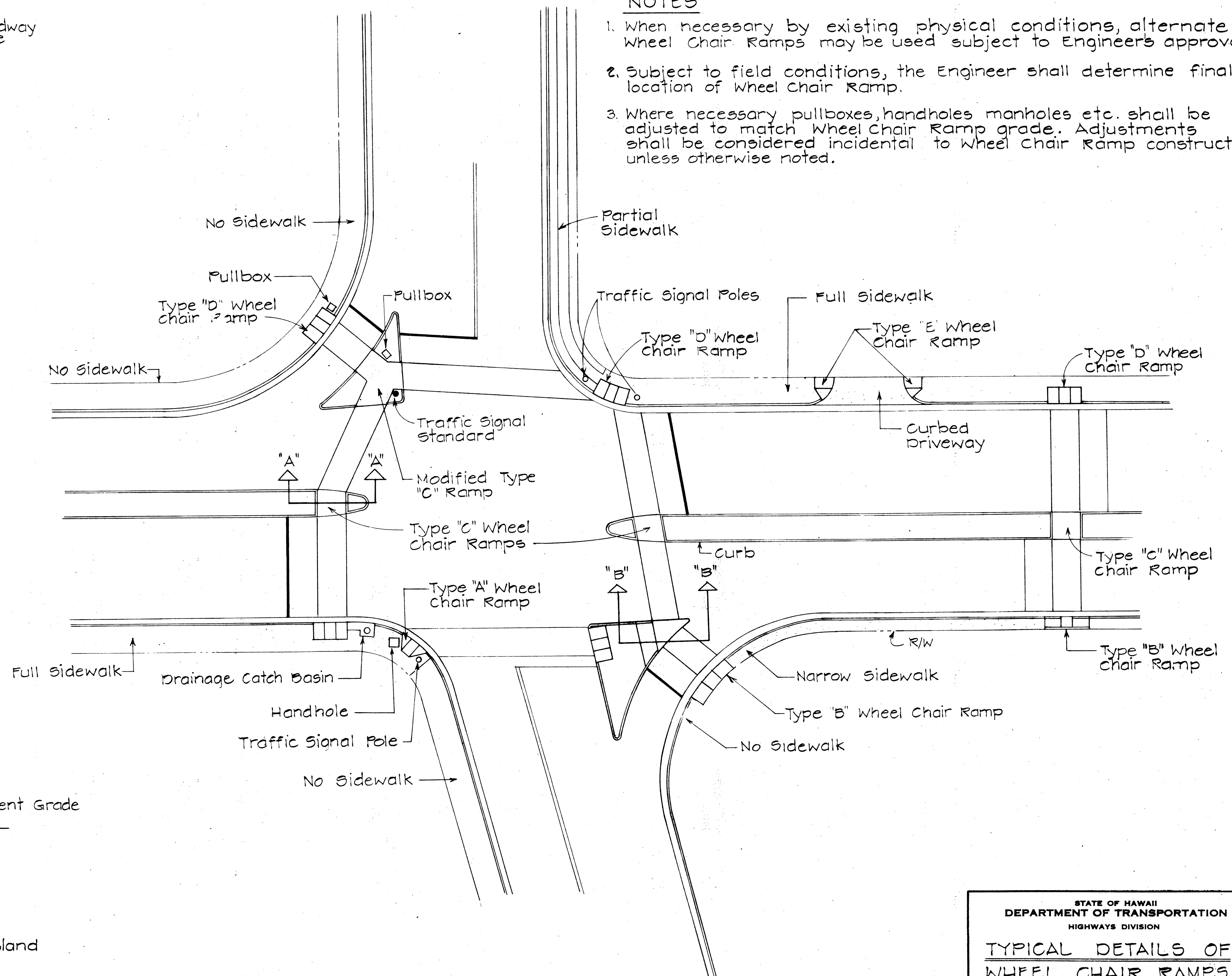
TYPE "B" MODIFIED WHEEL CHAIR RAMP

Use at Intersection of 2 Crosswalks on Channelizing Island
Scale: 3/8" = 1'

For Additional Details See Type "B" Wheelchair Ramp

NOTES

1. When necessary by existing physical conditions, alternate Wheel Chair Ramps may be used subject to Engineers approval.
2. Subject to field conditions, the Engineer shall determine final location of Wheel Chair Ramp.
3. Where necessary pullboxes, handholes manholes etc. shall be adjusted to match Wheel Chair Ramp grade. Adjustments shall be considered incidental to Wheel Chair Ramp construction, unless otherwise noted.



TYPICAL WHEEL CHAIR RAMPS

Scale: 1" = 20'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

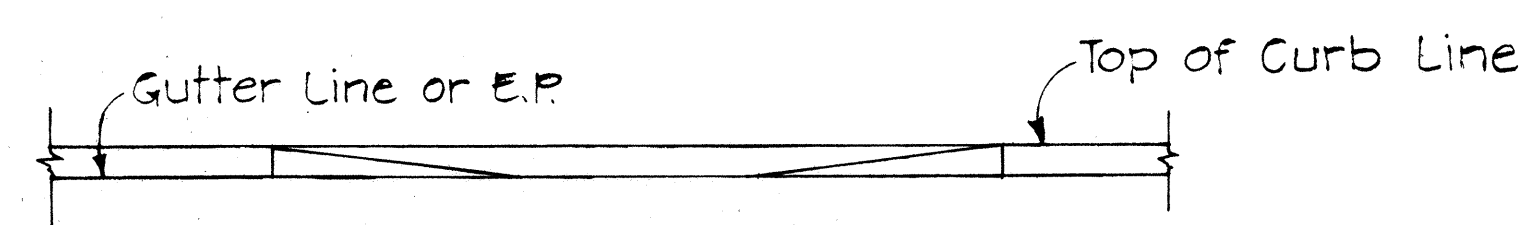
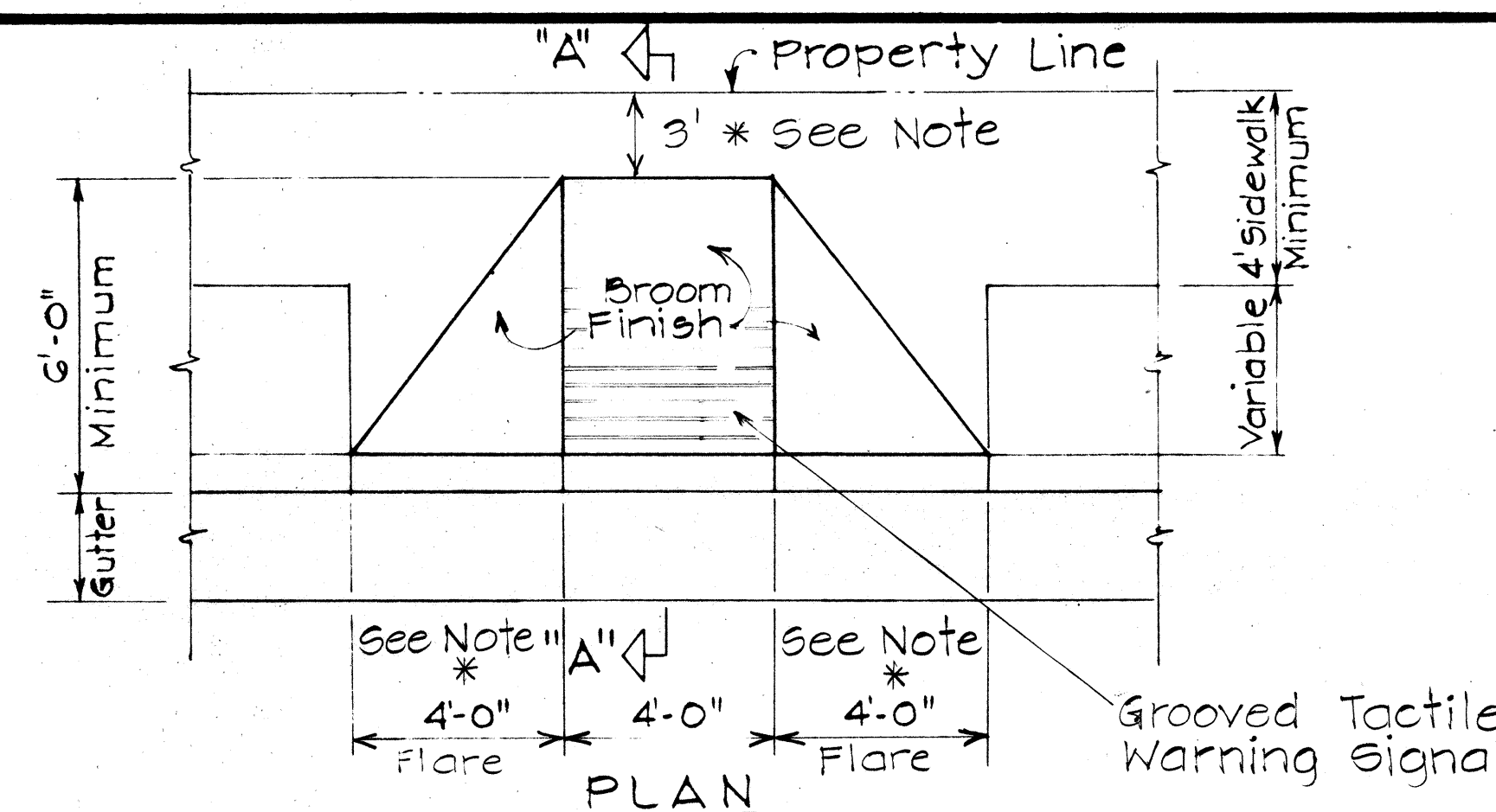
TYPICAL DETAILS OF WHEEL CHAIR RAMPS

FORT WEAVER ROAD
F.A.P. Proj. No. F-076-1(1)

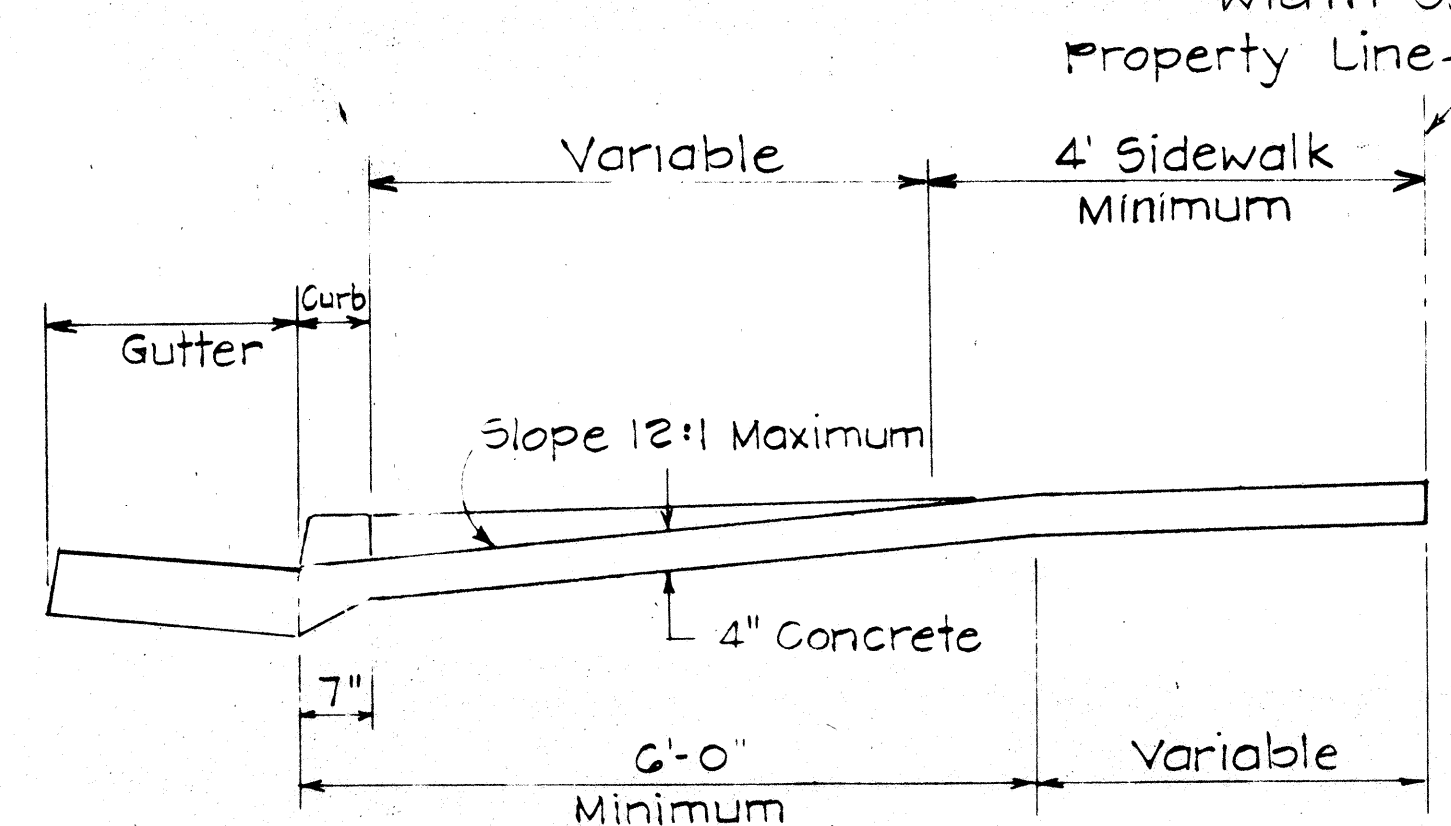
Scale: As Shown May, 1978

SHEET NO. 1 OF 11 SHEETS

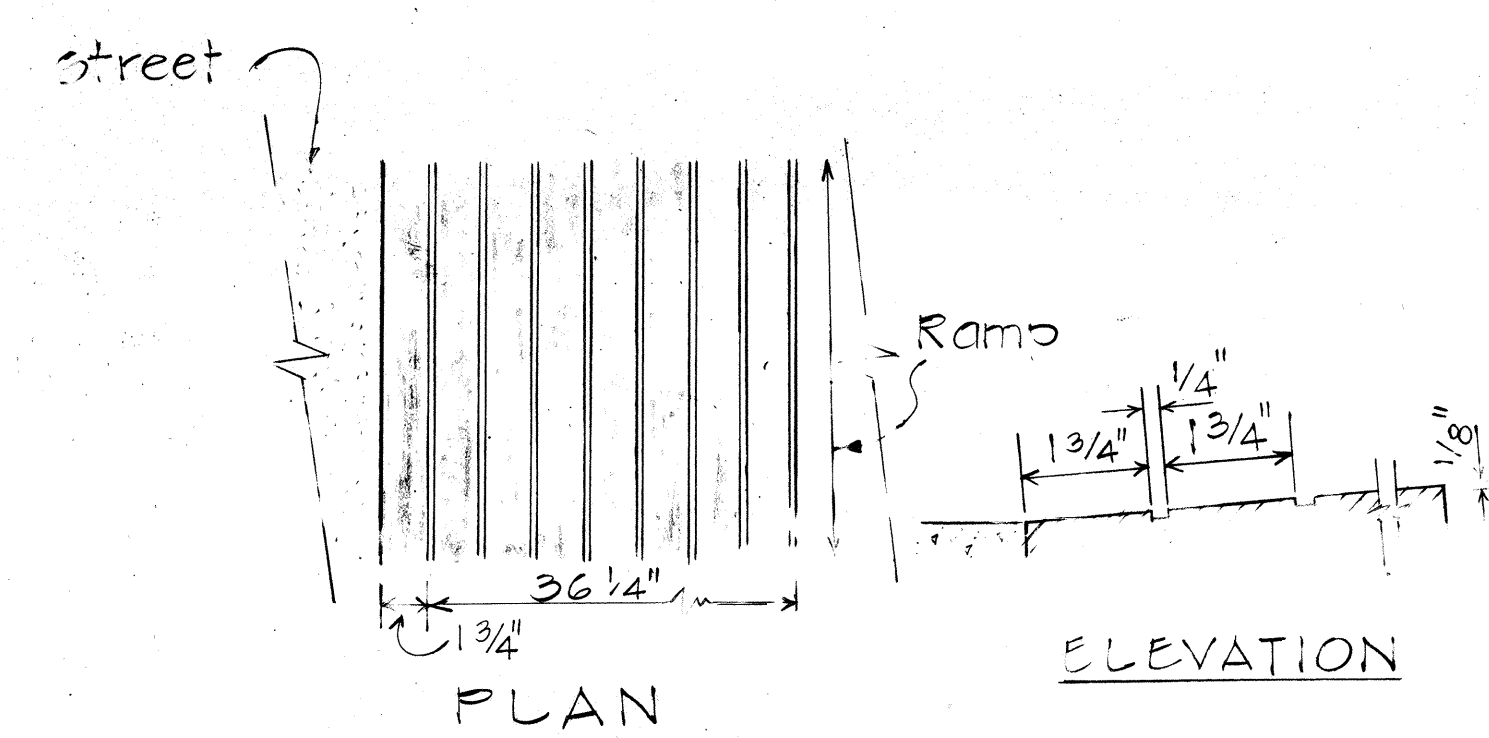
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-076-101	1986	20	121



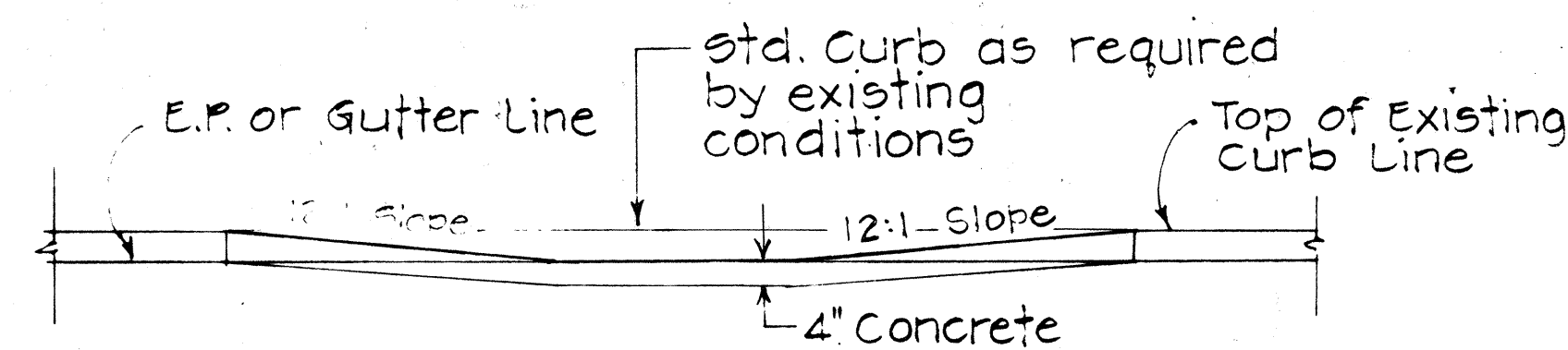
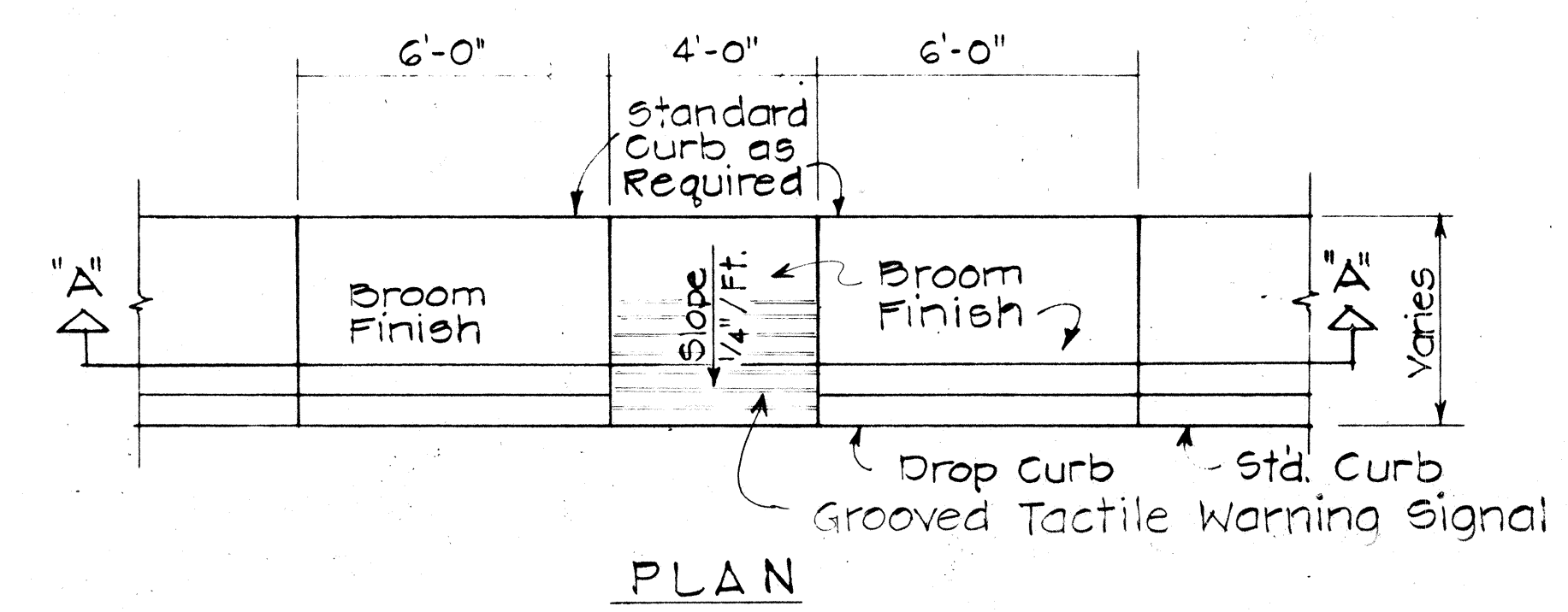
ELEVATION
* Where dimension is less than 3', Flare width shall be 5'



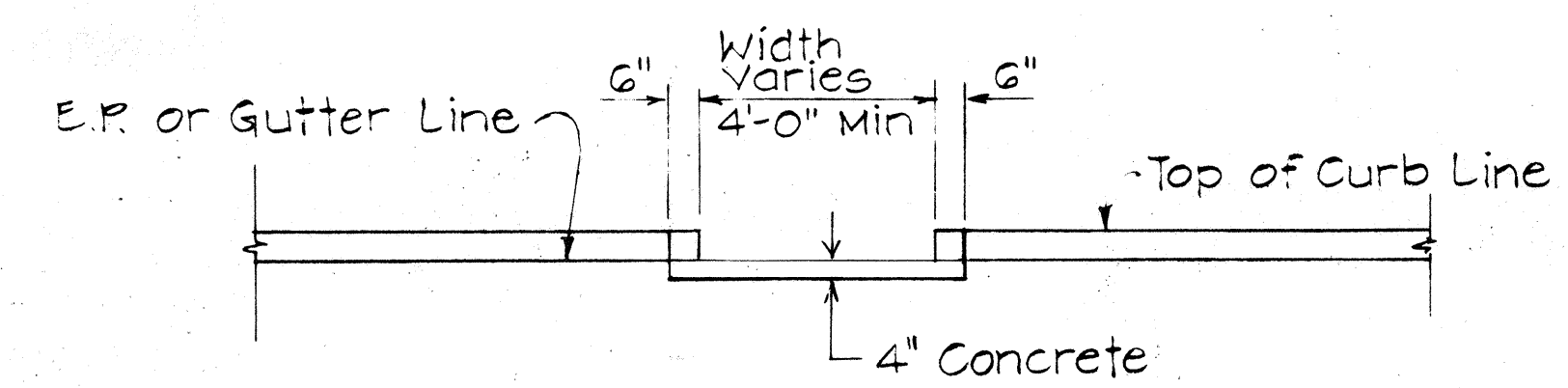
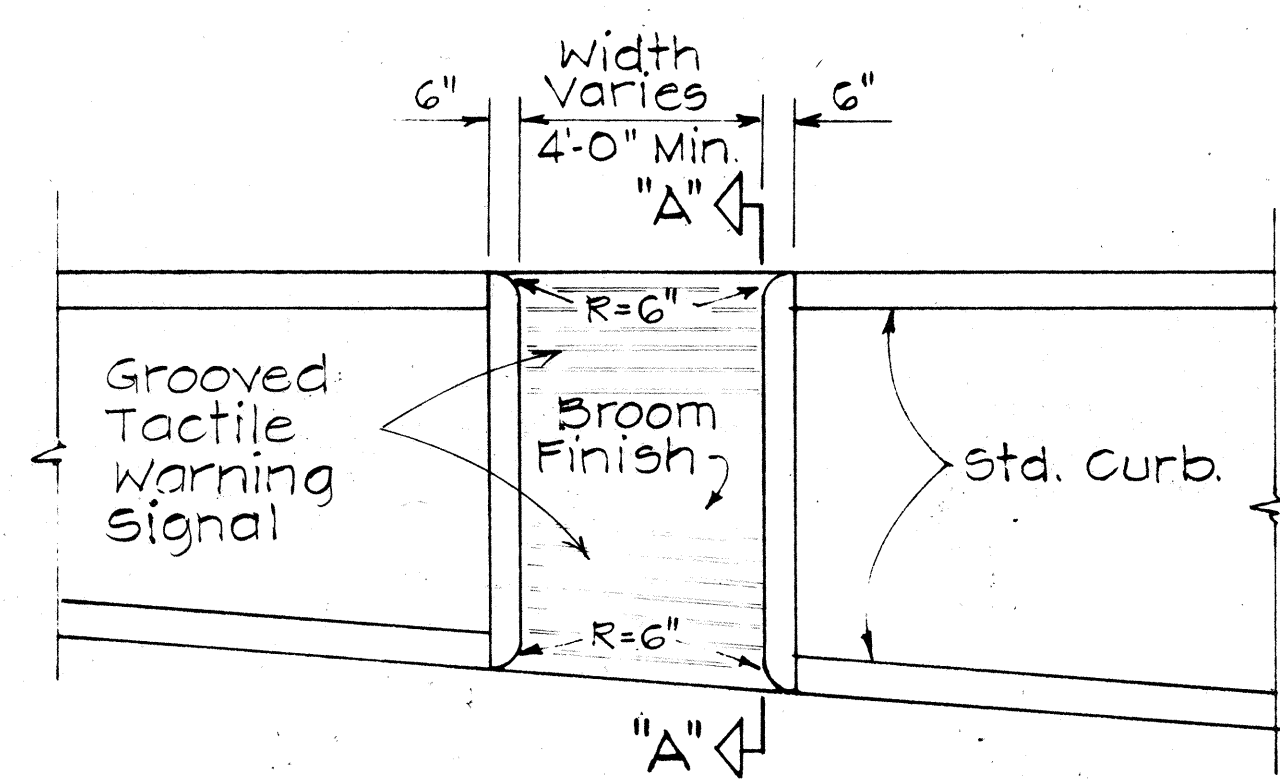
SECTION "A-A"
WHEELCHAIR RAMP - TYPE "A"
USE WHERE OBSTRUCTIONS EXIST



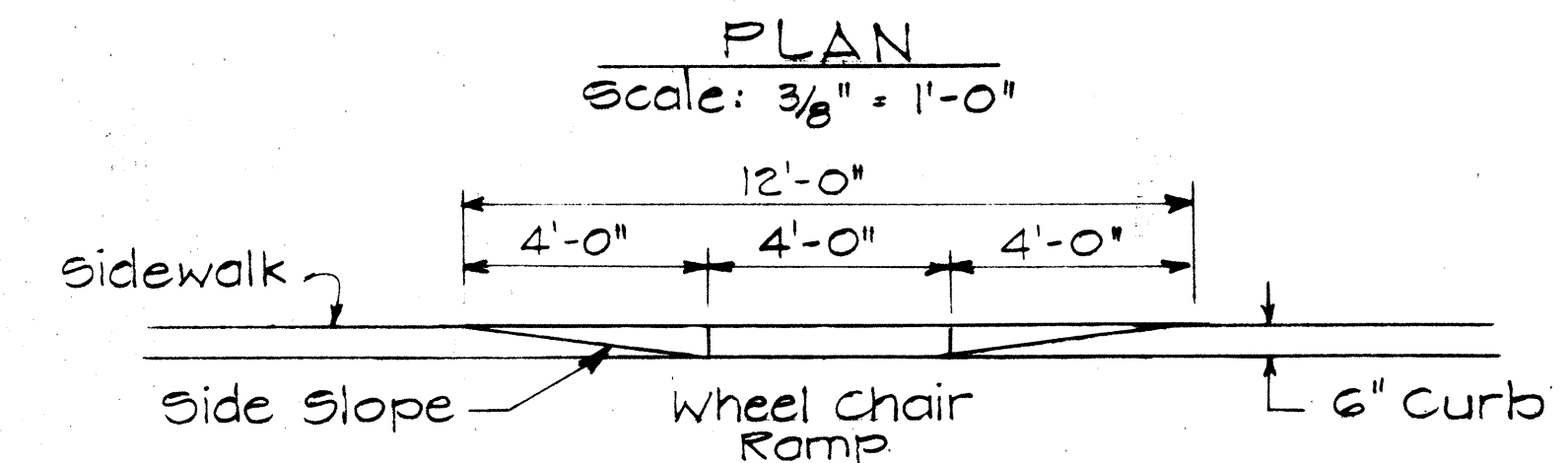
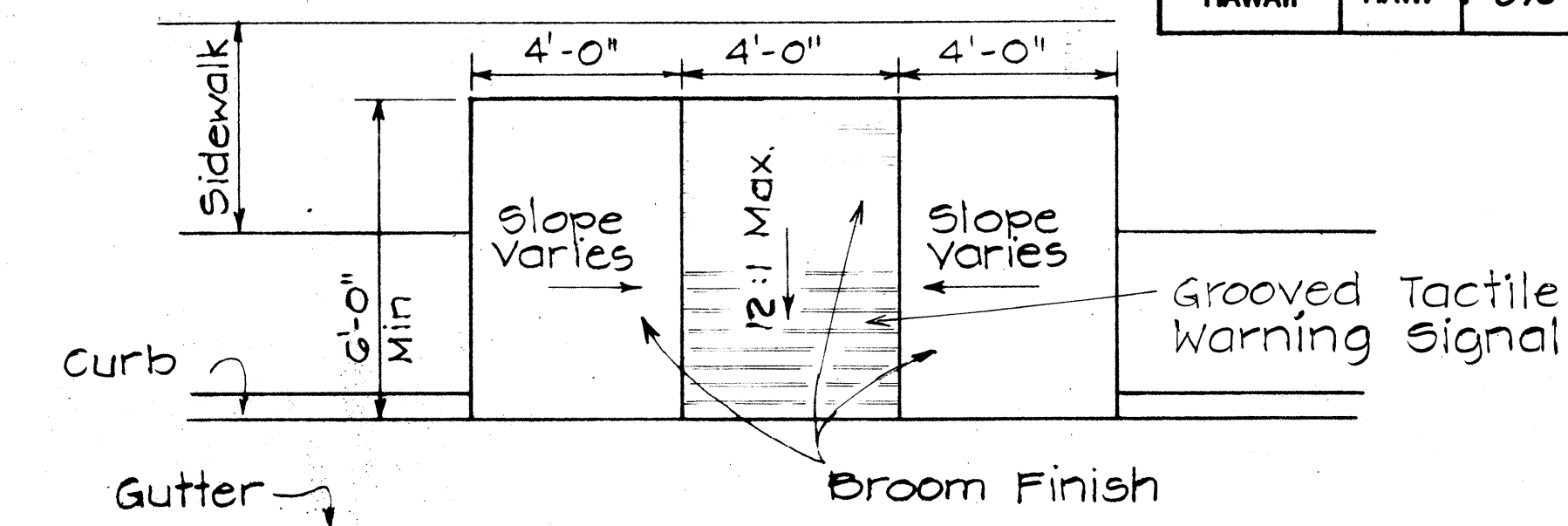
GROOVED TACTILE WARNING SIGNAL



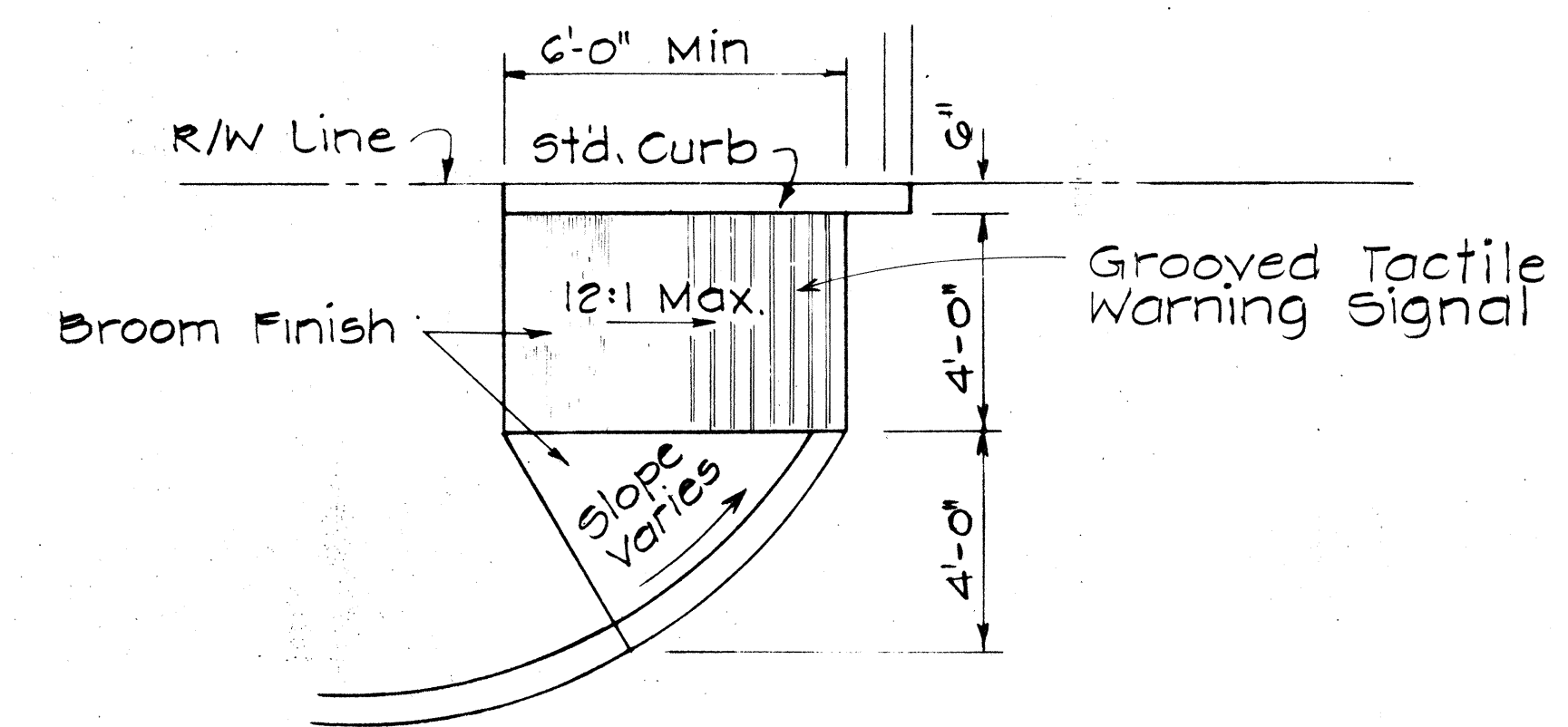
ELEVATION SECTION "A-A"
WHEELCHAIR RAMP - TYPE "B"
USE AT SIDEWALKS WITH LESS THAN 6'-0" WIDTH



ELEVATION
SECTION "A-A"
WHEELCHAIR RAMP - TYPE "C"
USE AT MEDIAN CROSSINGS, ISLANDS



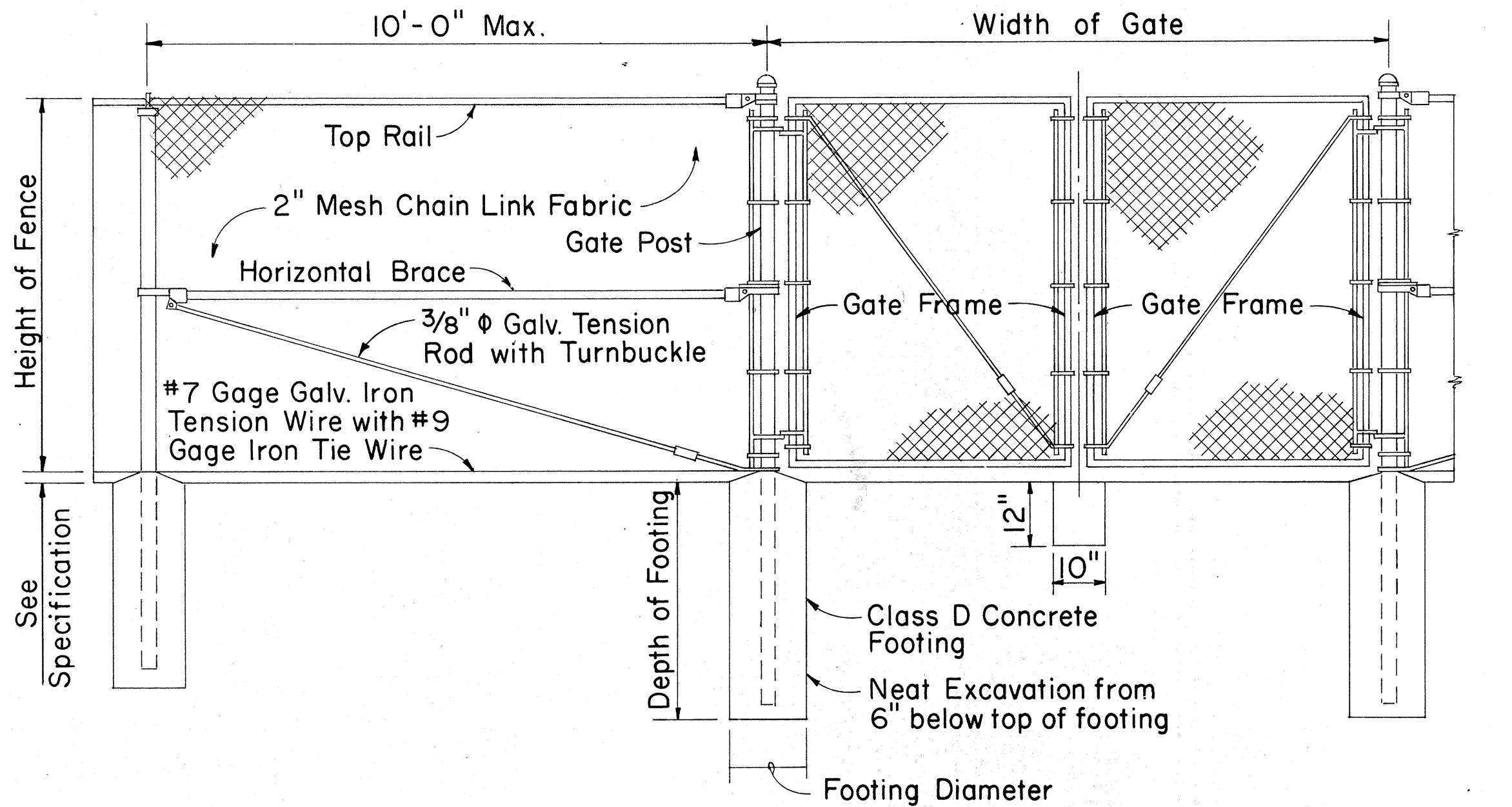
ELEVATION
Scale: 3/8" = 1'-0"
WHEELCHAIR RAMP - TYPE "D"
USE WHEN IDEAL CONDITIONS EXIST



WHEELCHAIR RAMP - TYPE "E"
USE AT CURBED DRIVEWAYS
Scale: 3/8" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL DETAILS OF WHEEL CHAIR RAMPS
FORT WEAVER ROAD
F.A.P. Proj. No. F-076-101
Scale: As Shown May, 1978
SHEET NO. 2 OF 11 SHEETS

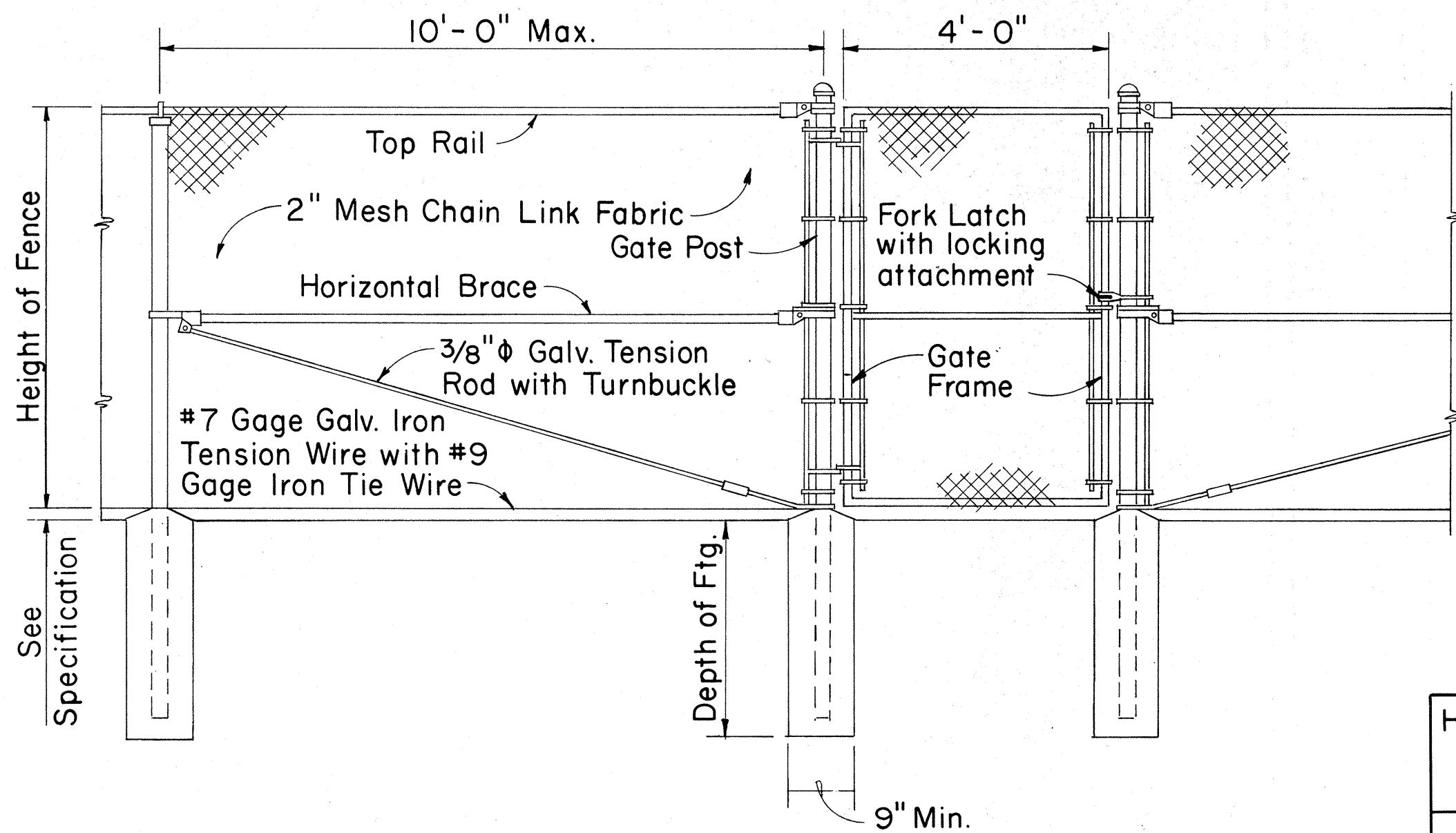
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-076-1(1)	1986	21	121



LINE POST GATE POST GATE POST

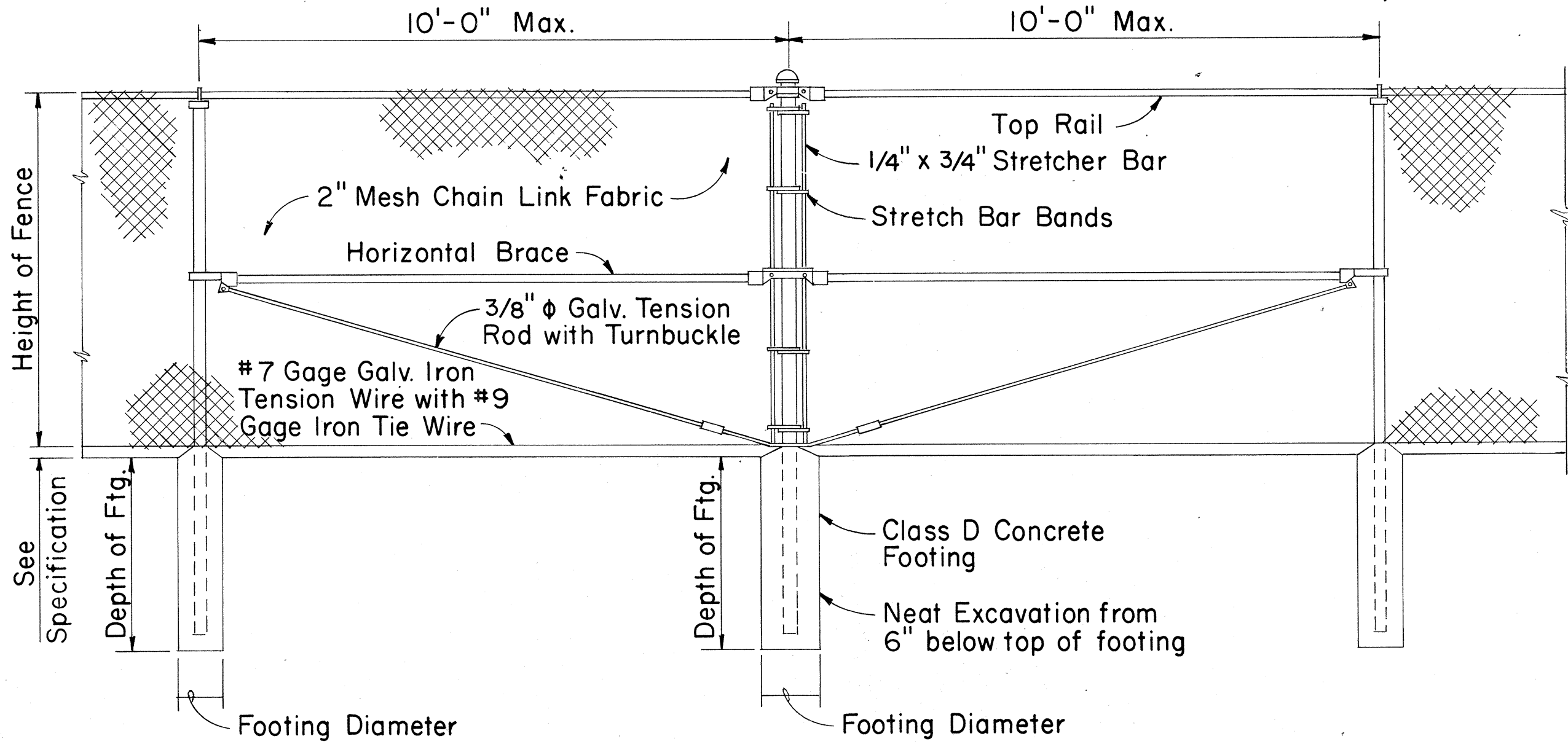
DETAIL OF CHAIN LINK GATE

- 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.



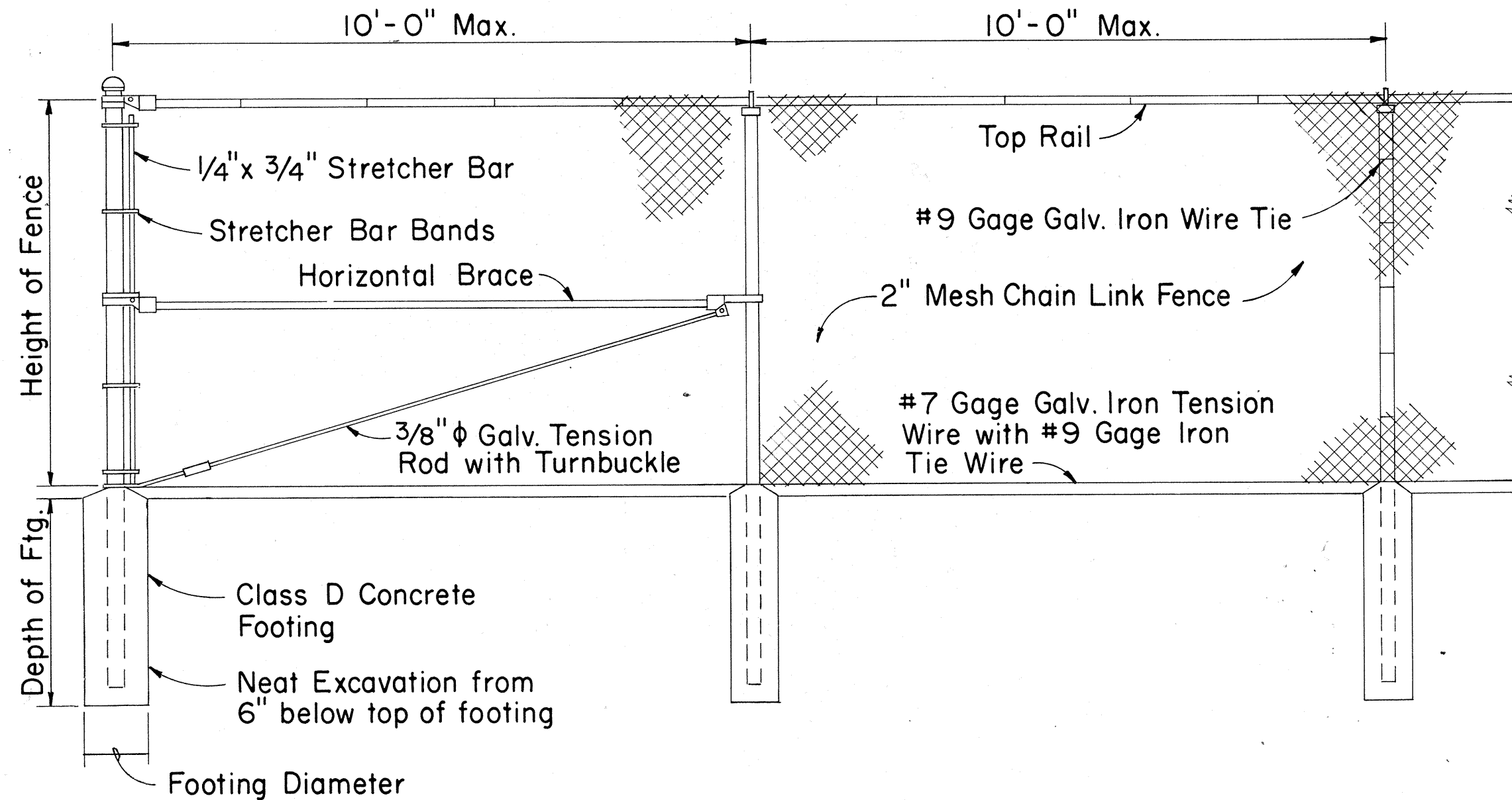
LINE POST GATE POST GATE POST

DETAIL OF 4 FT. CHAIN LINK GATE



LINE POST PULL POST LINE POST

TYPICAL SECTION (WITH CONCRETE FOOTING)



END POST LINE POST LINE POST

CHAIN LINK FENCE DETAILS

APPROVAL RECOMMENDED: *[Signature]* 12-4-69
HIGHWAY DESIGN ENGINEER DATE

APPROVED: *[Signature]* 12-10-69
ASSISTANT CHIEF, ENGINEERING DATE

NO	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

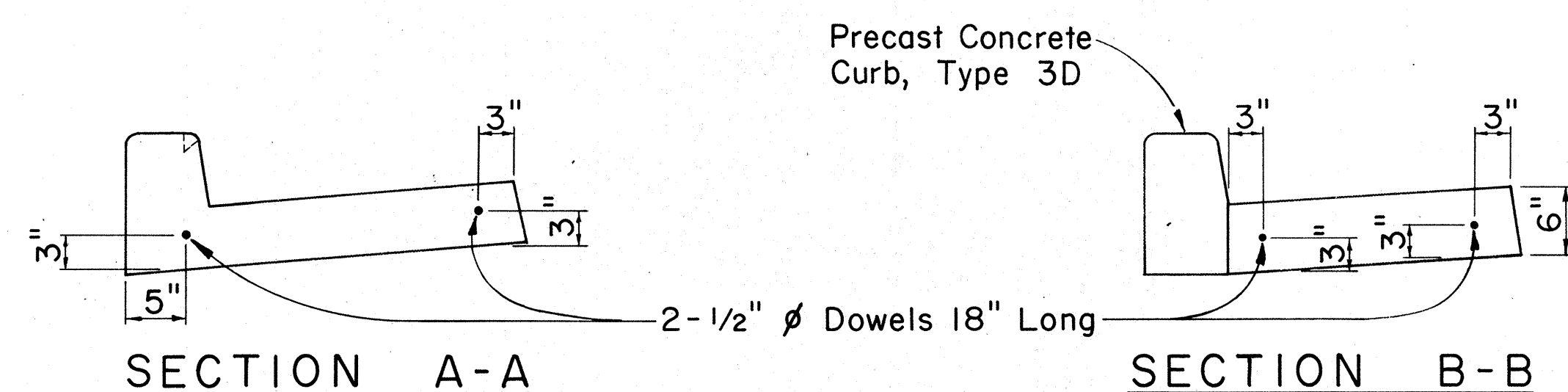
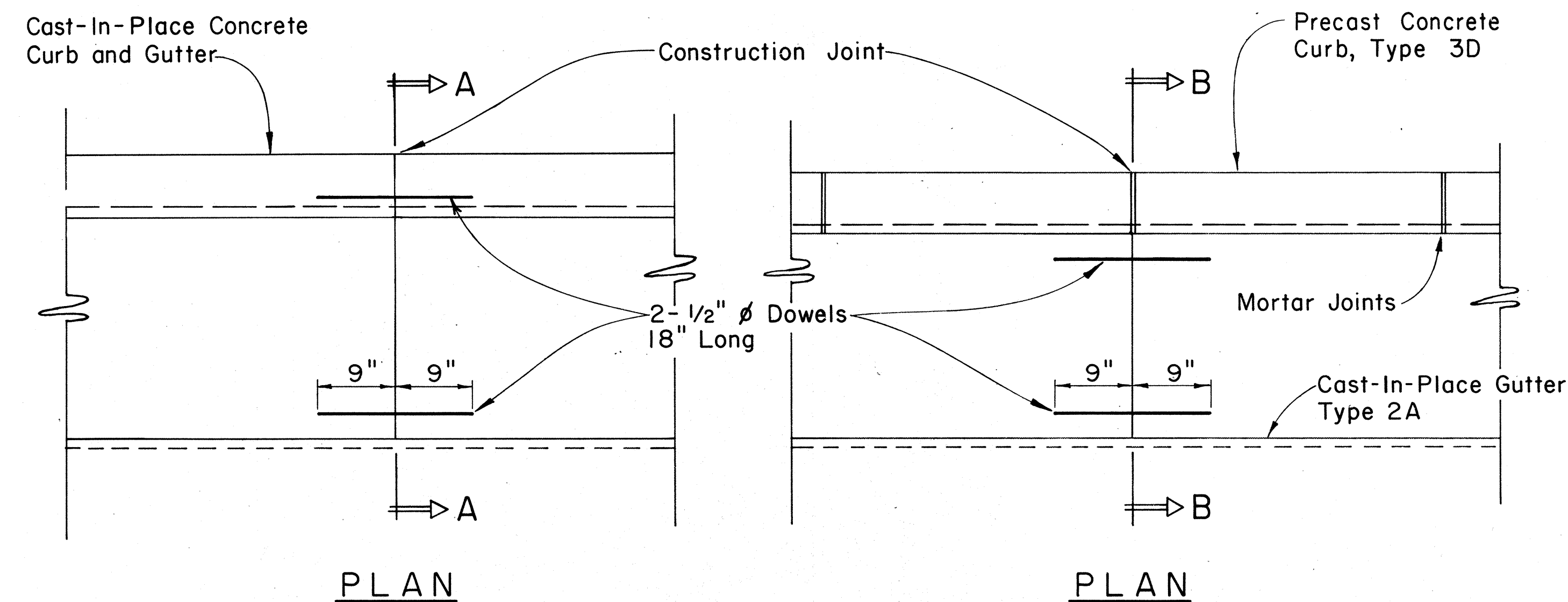
CHAIN LINK FENCE
(WITH TOPRAIL)

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

SHEET No. 3 OF 11 SHEETS DD 607.1

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
DESIGNED 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.	F-076-1(1)	1986	22	121



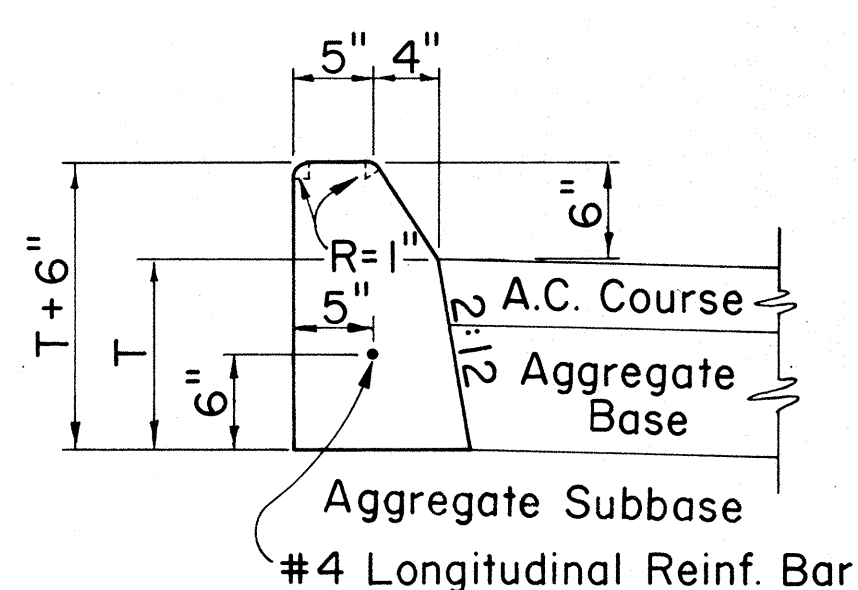
CAST-IN-PLACE CURB & GUTTER **CAST-IN-PLACE GUTTER**

CONSTRUCTION JOINT DETAIL

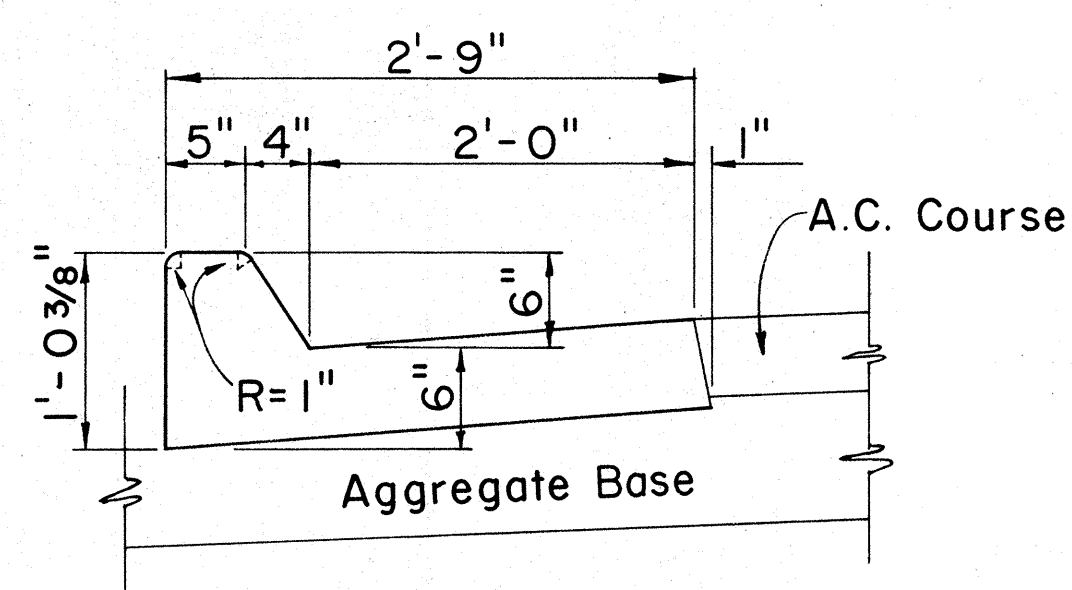
Scale: 1" = 1'-0"

NOTES

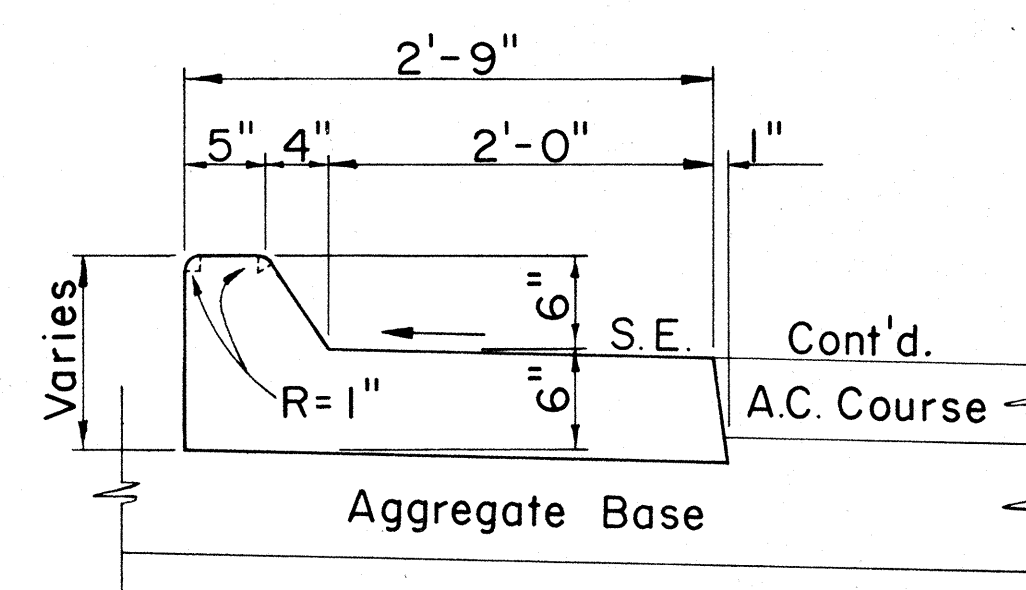
1. Cast-In-Place P.C.C. Gutters shall be longitudinally broom finished.
2. Curb, Type 2A, Curb & Gutter, Type 2AG, and Curb & Gutter, Type 2AGM are to be used only for reconstructing short segments of existing curbs and/or gutters of the same type.
3. The top of all types of concrete curbs, including driveway curbs shall be longitudinally broom finished.



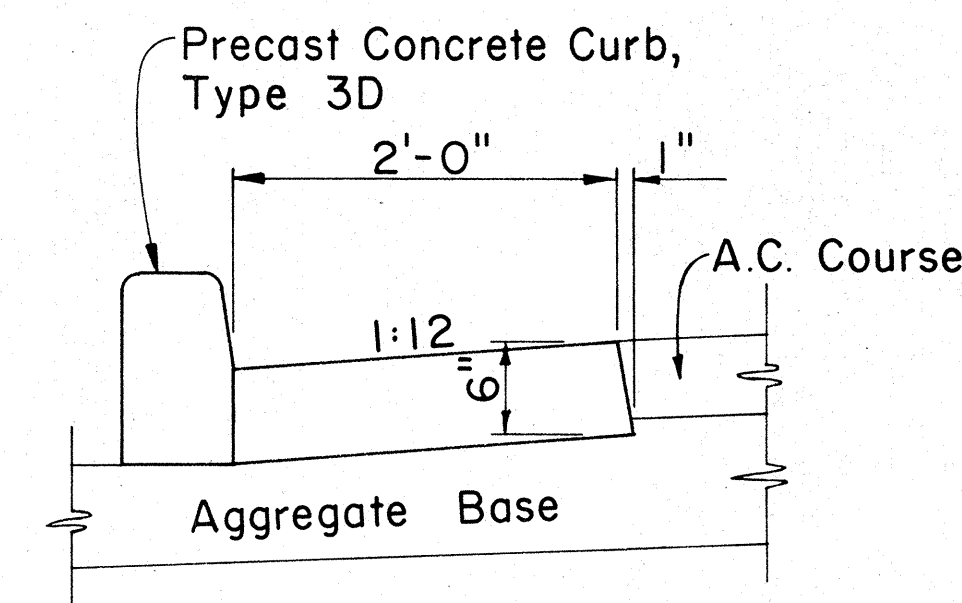
CURB, TYPE 2A



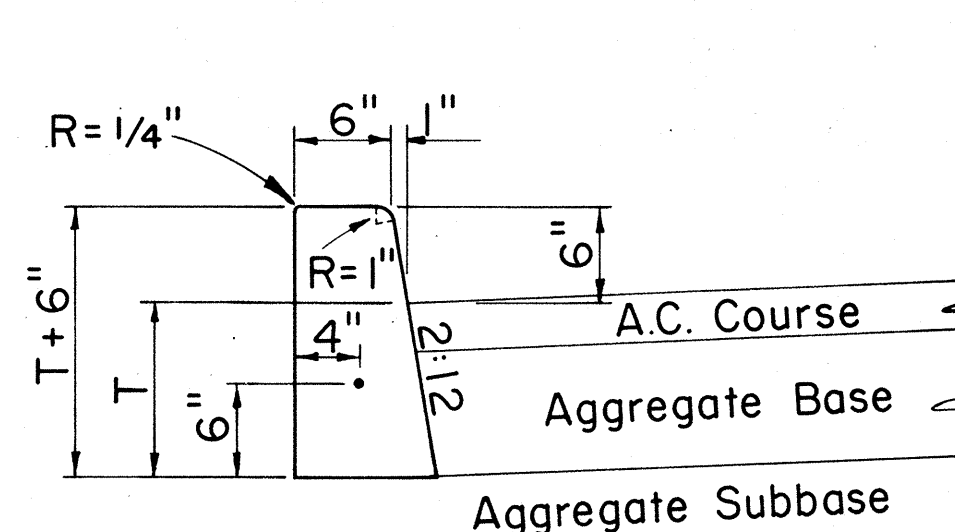
CURB & GUTTER, TYPE 2AG



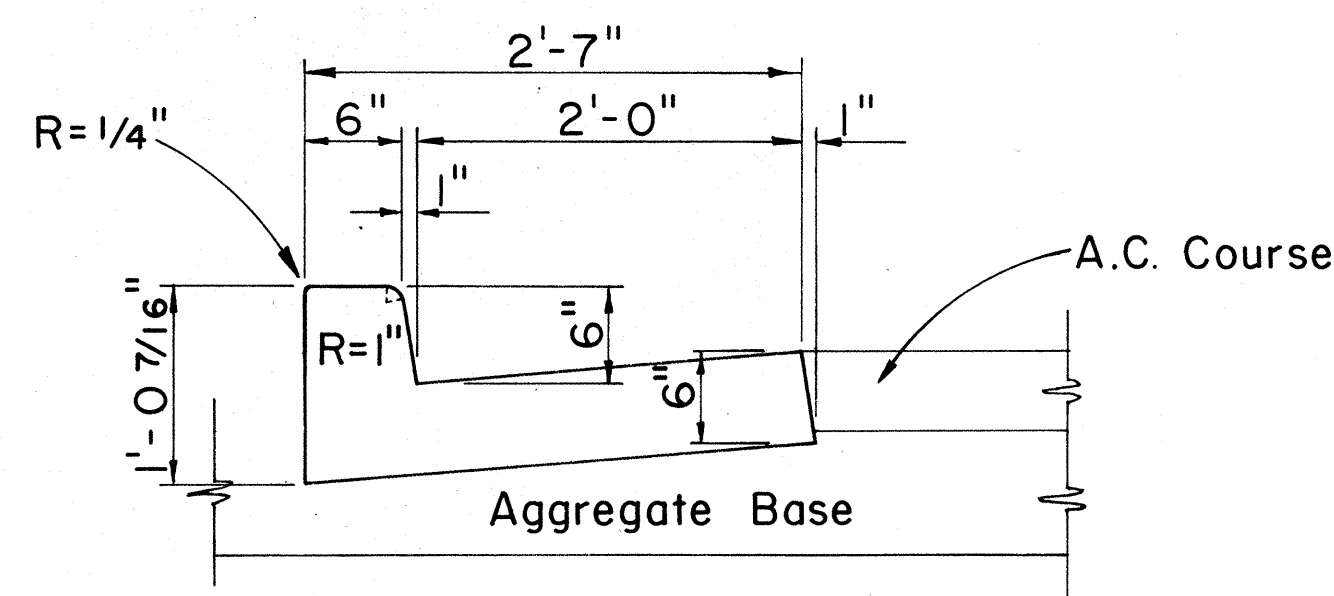
CURB & GUTTER, TYPE 2AGM



GUTTER, TYPE 2A



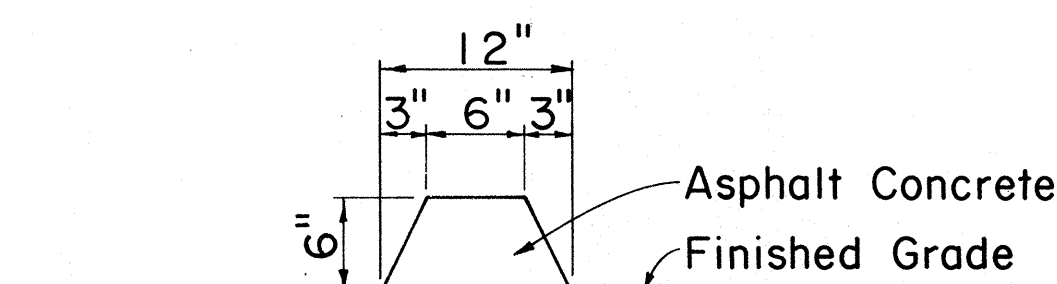
CURB, TYPE 2D



CURB & GUTTER, TYPE 2DG

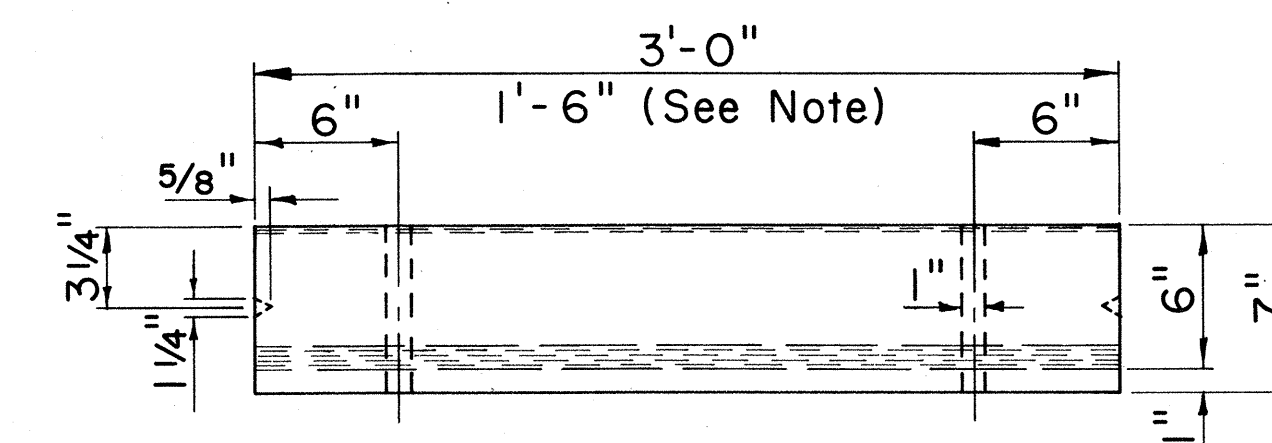
CAST-IN-PLACE CONCRETE CURBS AND/OR GUTTERS

Scale: 1" = 1'-0"

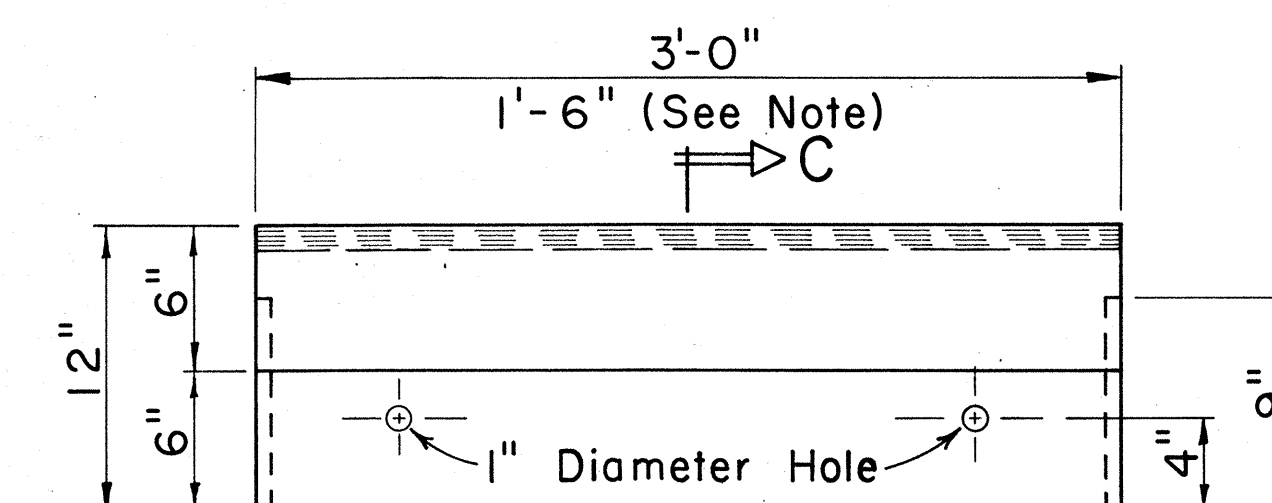


CURB, TYPE 6
BITUMINOUS CURB

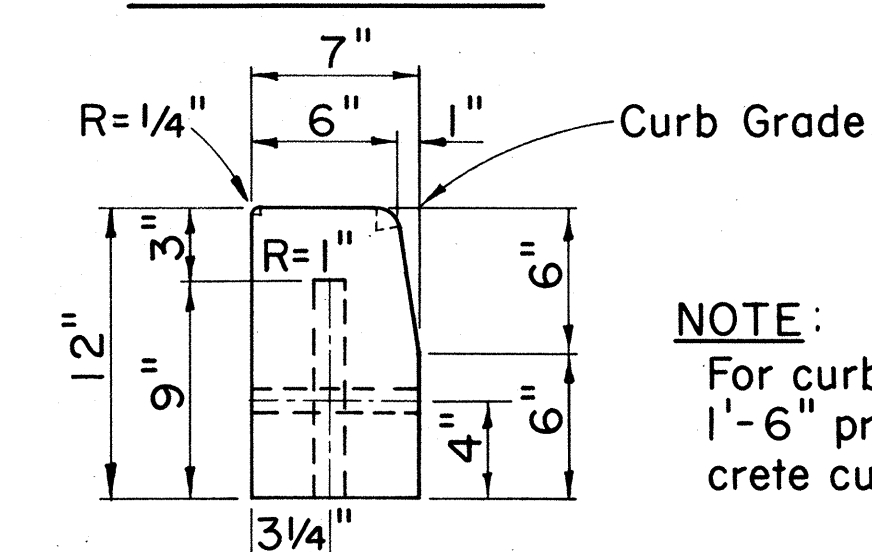
Scale: 1 1/2" = 1'-0"



PLAN



ELEVATION



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.

APPROVAL RECOMMENDED:

M. J. J. J.
HIGHWAY DESIGN ENGINEER

12-4-69
DATE

APPROVED:

R. J. J. J.
ASSISTANT CHIEF, ENGINEERING

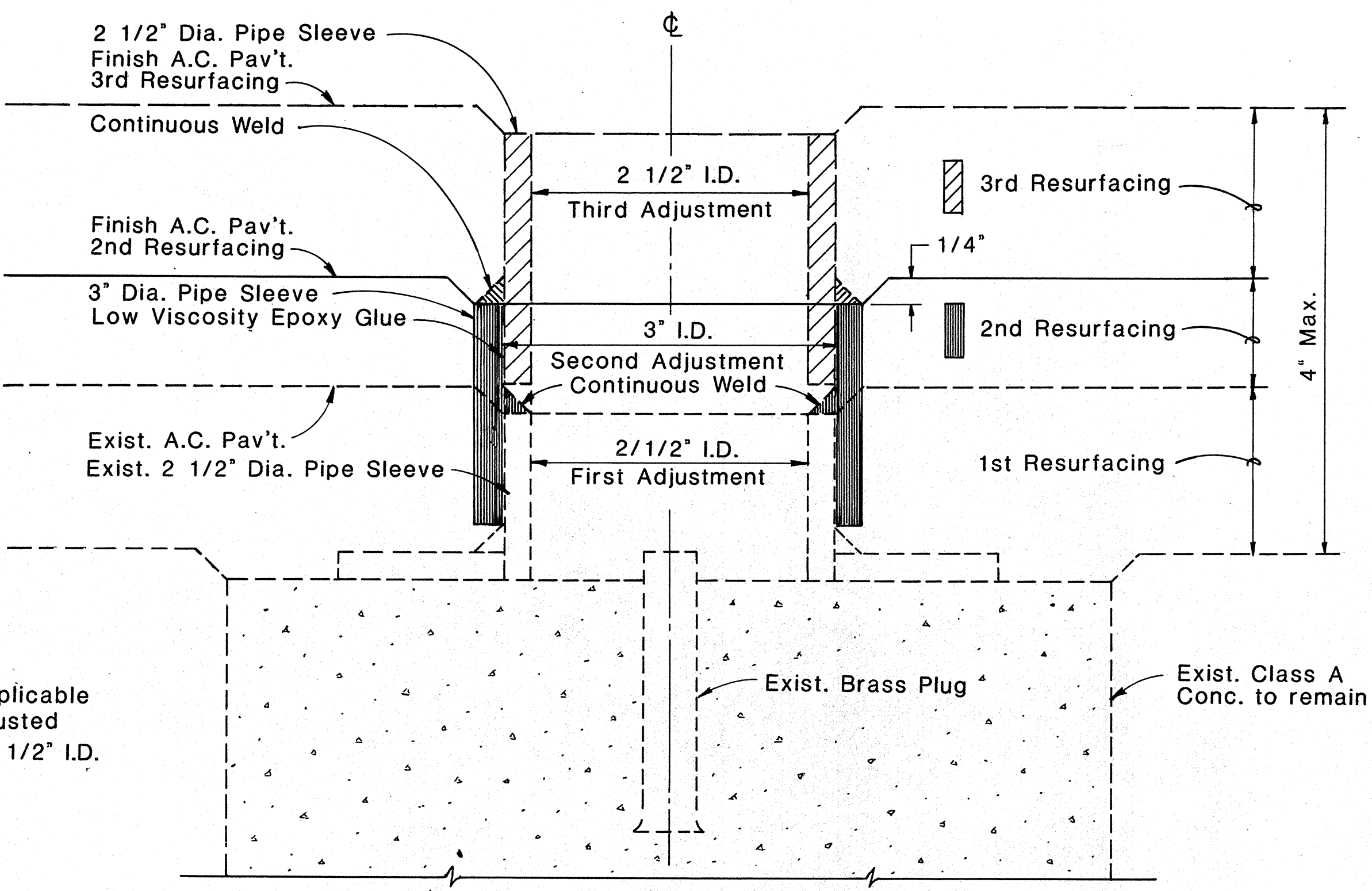
12-10-69
DATE

NO.	REVISION	APPROVED BY	DATE
1	Add Notes, Deleted Gutter, Type 2G	<i>R. J. J. J.</i>	11-26-84

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
STANDARD DETAILS TYPICAL DETAILS OF CURB AND/OR GUTTERS
Scale: As Shown

SHEET No. 4 OF 11 SHEETS DD 609.1

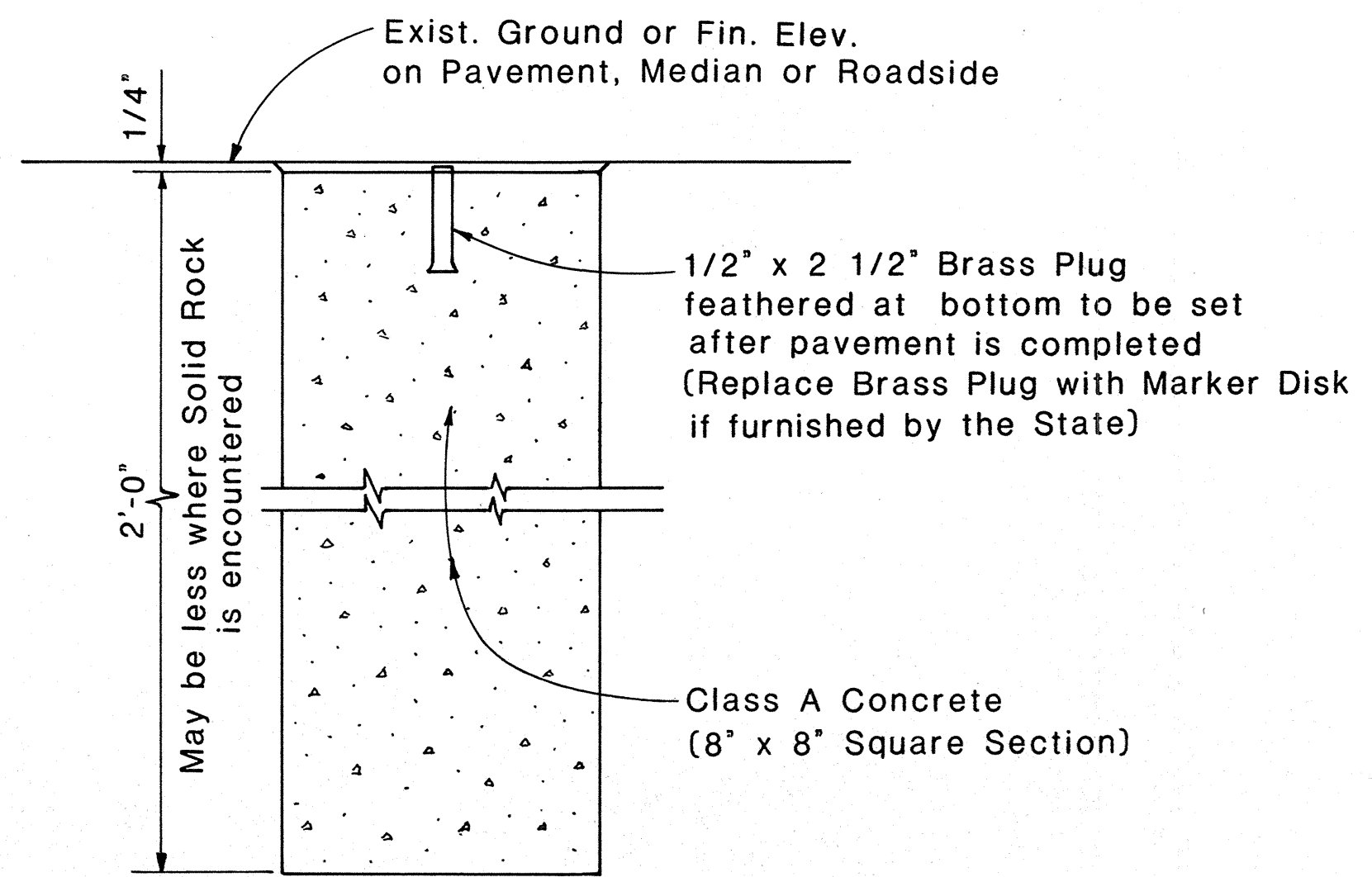
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-076-1(1)	1986	23	121



NOTE:
This detail is applicable only if initial adjusted pipe sleeve is 2 1/2" I.D.

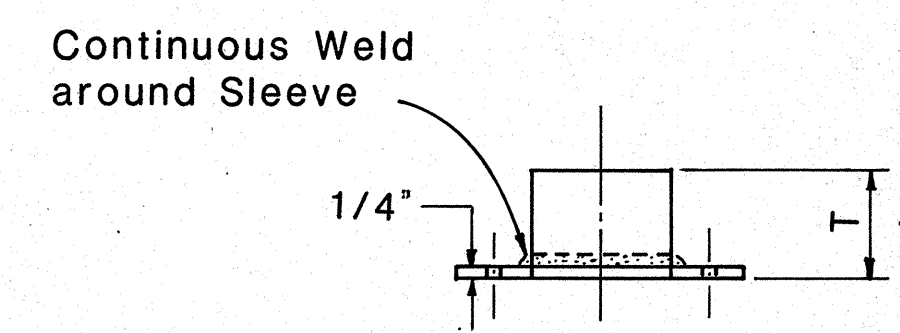
DETAIL FOR CENTERLINE MONUMENT (2ND & 3RD) ADJUSTMENTS

FULL SIZE

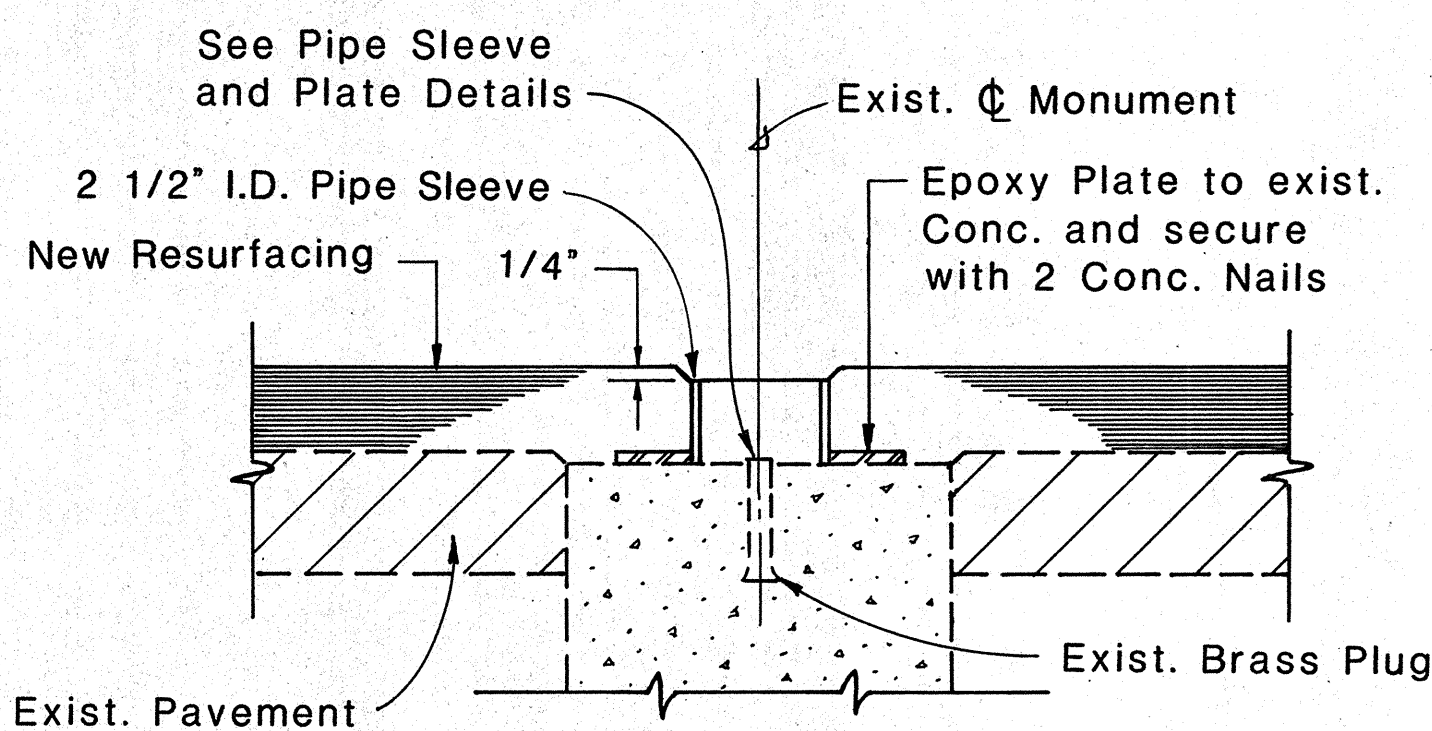


DETAIL FOR CENTERLINE & REFERENCE SURVEY MONUMENT

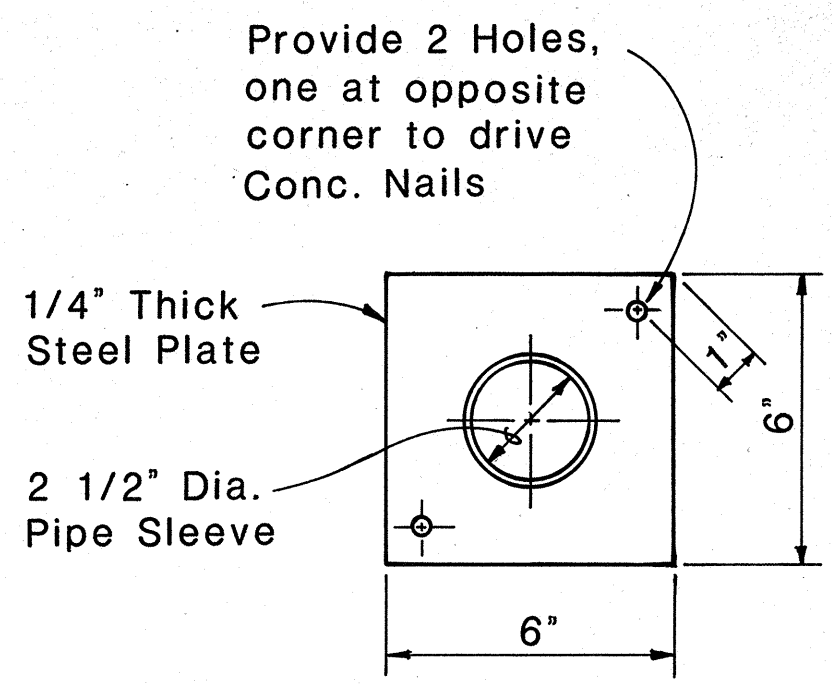
Scale: 1 1/2" = 1'-0"



PIPE SLEEVE & PLATE ELEVATION



SECTION THRU MONUMENT



PIPE SLEEVE & PLATE PLAN

NOTE
These Adjustment Details also apply to Centerline Monuments utilized as Stationline Reference Points.

DETAILS FOR ADJUSTED CENTERLINE MONUMENT

Scale: 3" = 1'-0"

APPROVAL RECOMMENDED:
Mike Miura 6-20-83
HIGHWAY DESIGN ENGINEER DATE
APPROVED:
Ed Fujiyama 6-22-83
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED	
		BY	DATE
1	Delete Note No. 1	<i>ED</i>	11-17-84

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

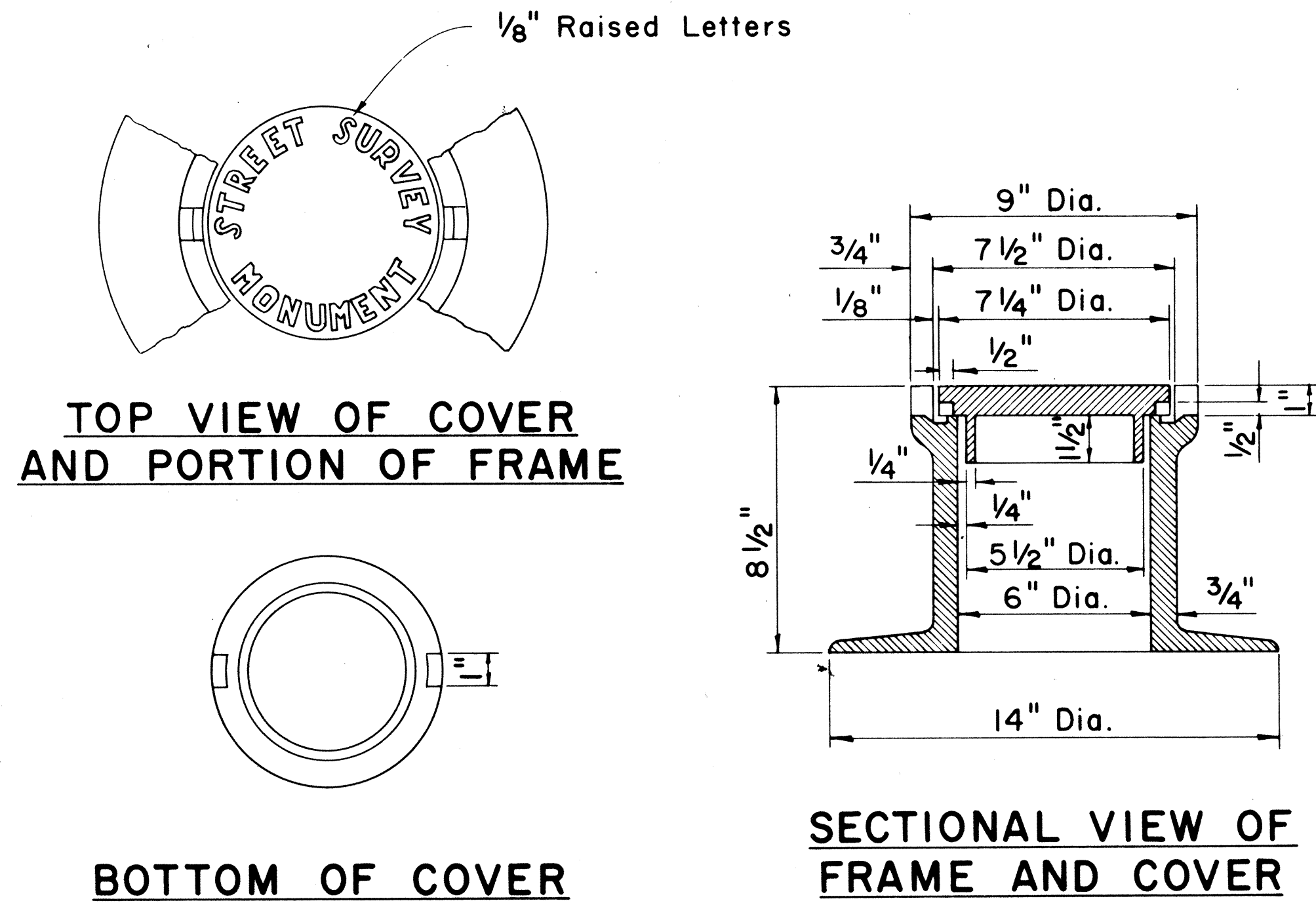
**CENTERLINE AND REFERENCE
SURVEY MONUMENT**

Scale: As Shown Date: May, 1983

SHEET No. 5 OF 11 SHEETS

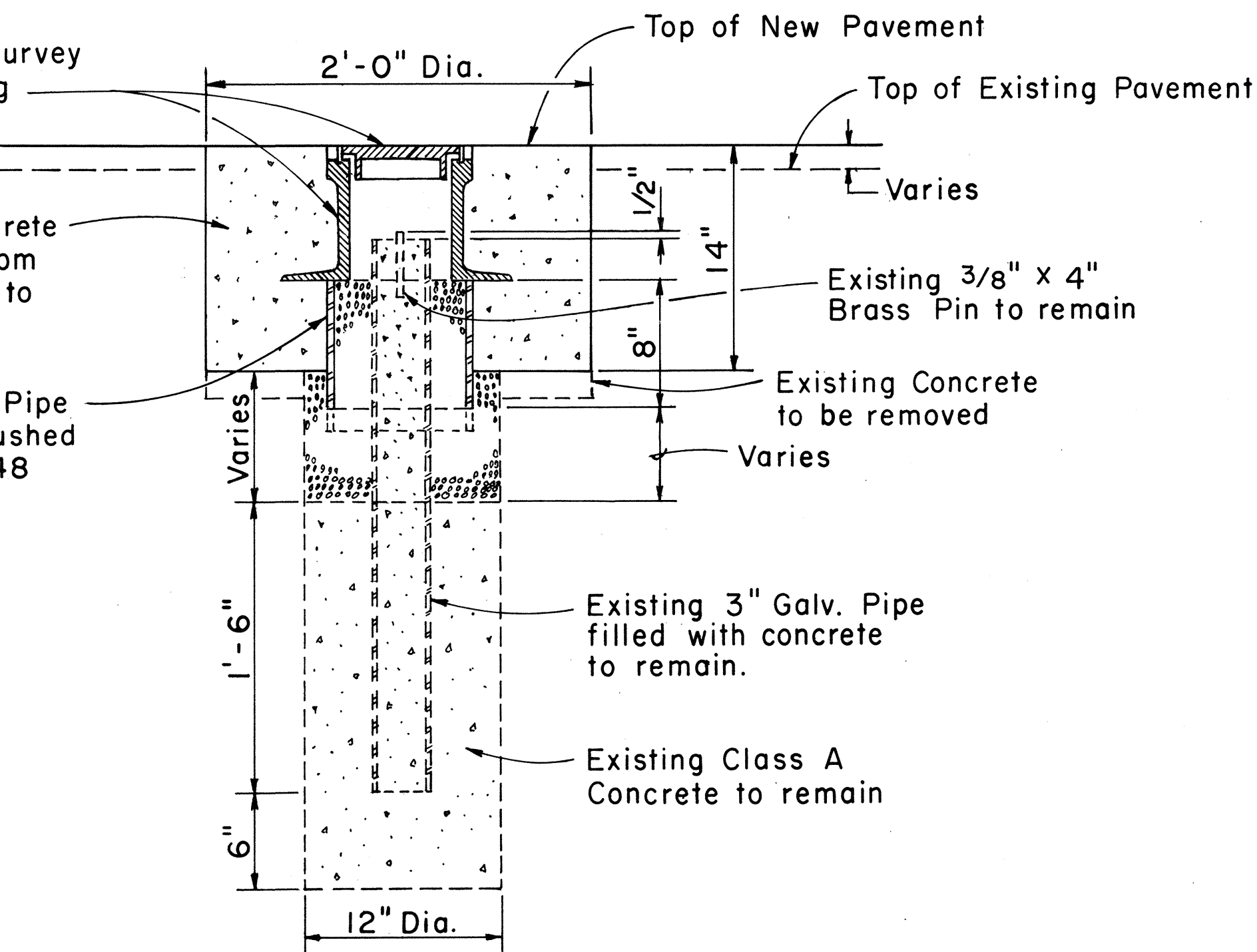
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F076-1(1)	1986	24	121



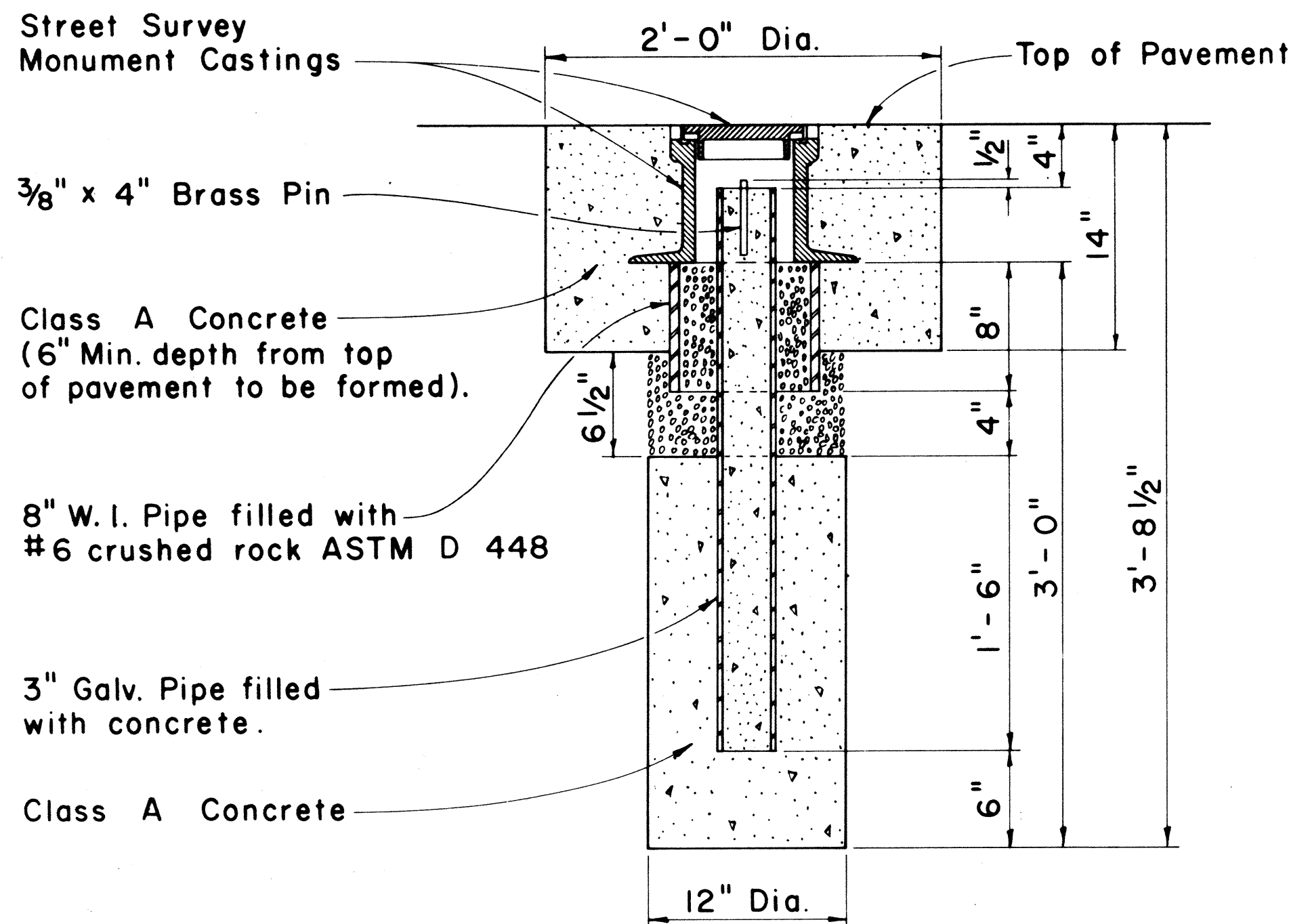
STREET SURVEY MONUMENT CASTINGS

Scale: 3" = 1'-0"



DETAILS FOR ADJUSTED STREET SURVEY MONUMENT

Scale: 1 1/2" = 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"

APPROVAL RECOMMENDED:

[Signature] 12-4-69
HIGHWAY DESIGN ENGINEER DATE

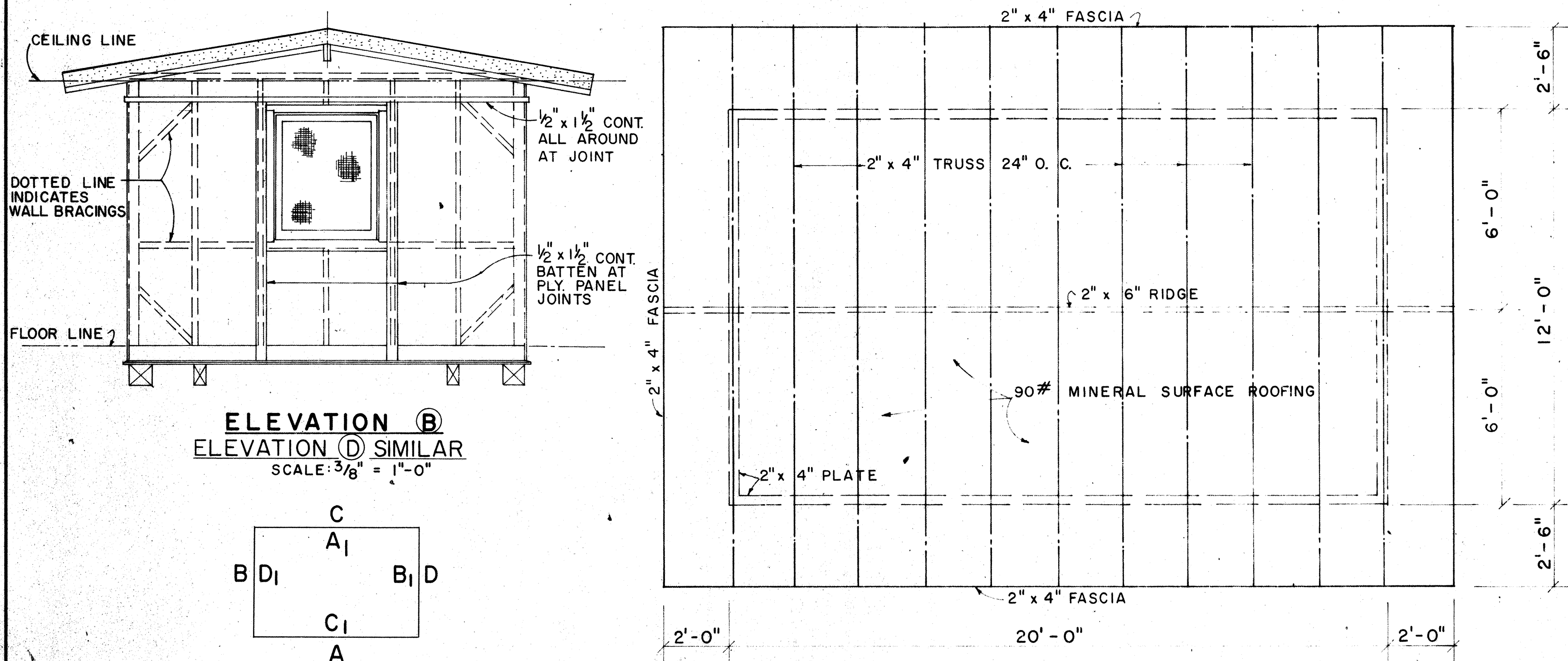
APPROVED:

[Signature] 12-10-69
ASSISTANT CHIEF, ENGINEERING DATE

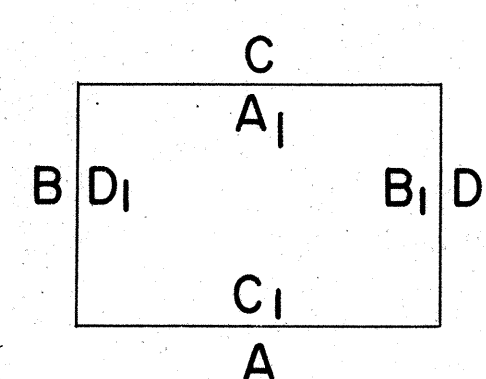
NO.	REVISION	APPROVED BY	DATE
1	Deleted "Detail For Centerline & Reference Survey Monument", added "Detail For Adjusted Street Survey Monument" and deleted "C & C" Inscription on Cover.	<i>[Signature]</i>	6-22-83

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
STANDARD DETAILS
STREET SURVEY MONUMENT
SCALE: AS SHOWN
SHEET No. 6 OF 11 SHEETS DD 614.1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	F-076-1(1)	1986	25	121

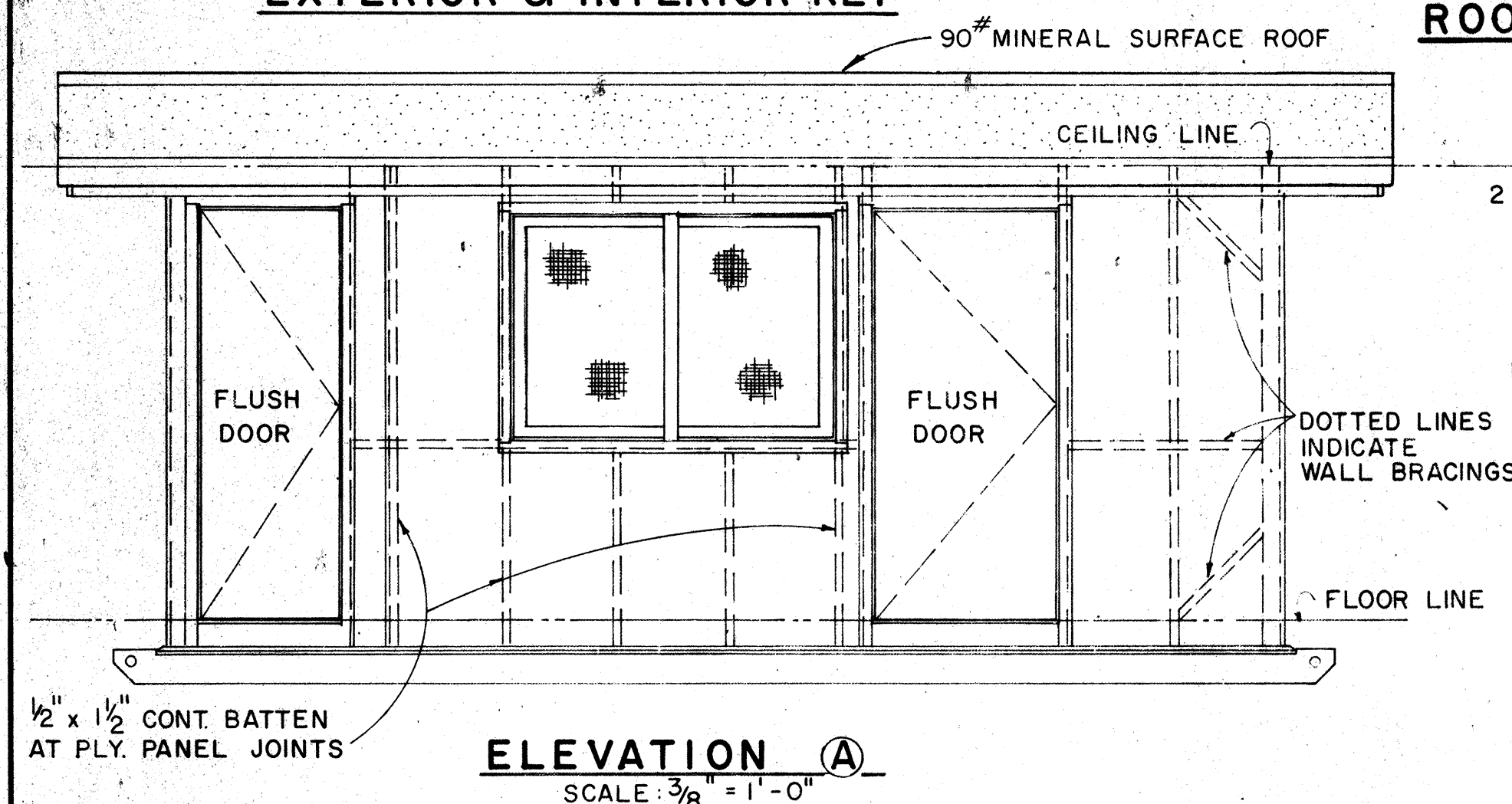


ELEVATION B
ELEVATION D SIMILAR
SCALE: 3/8" = 1'-0"

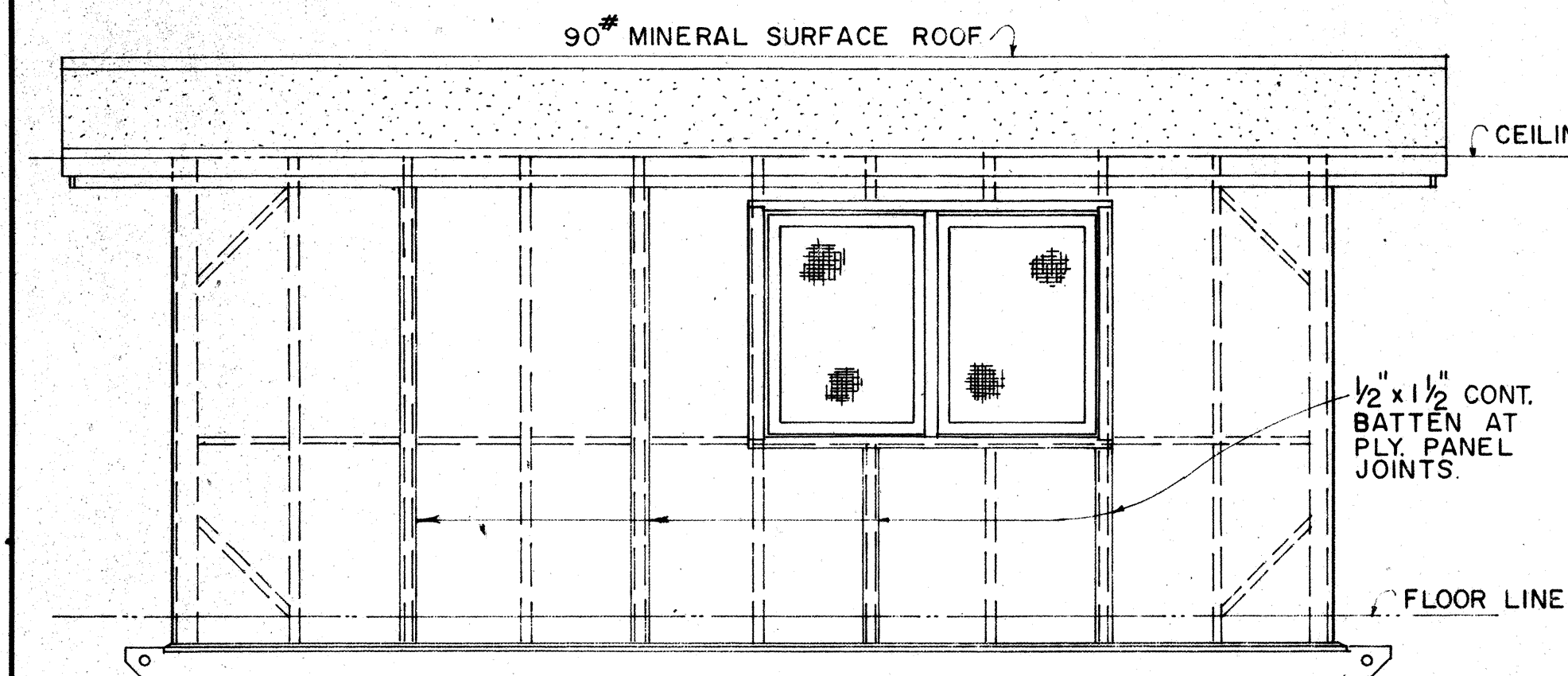


EXTERIOR & INTERIOR KEY

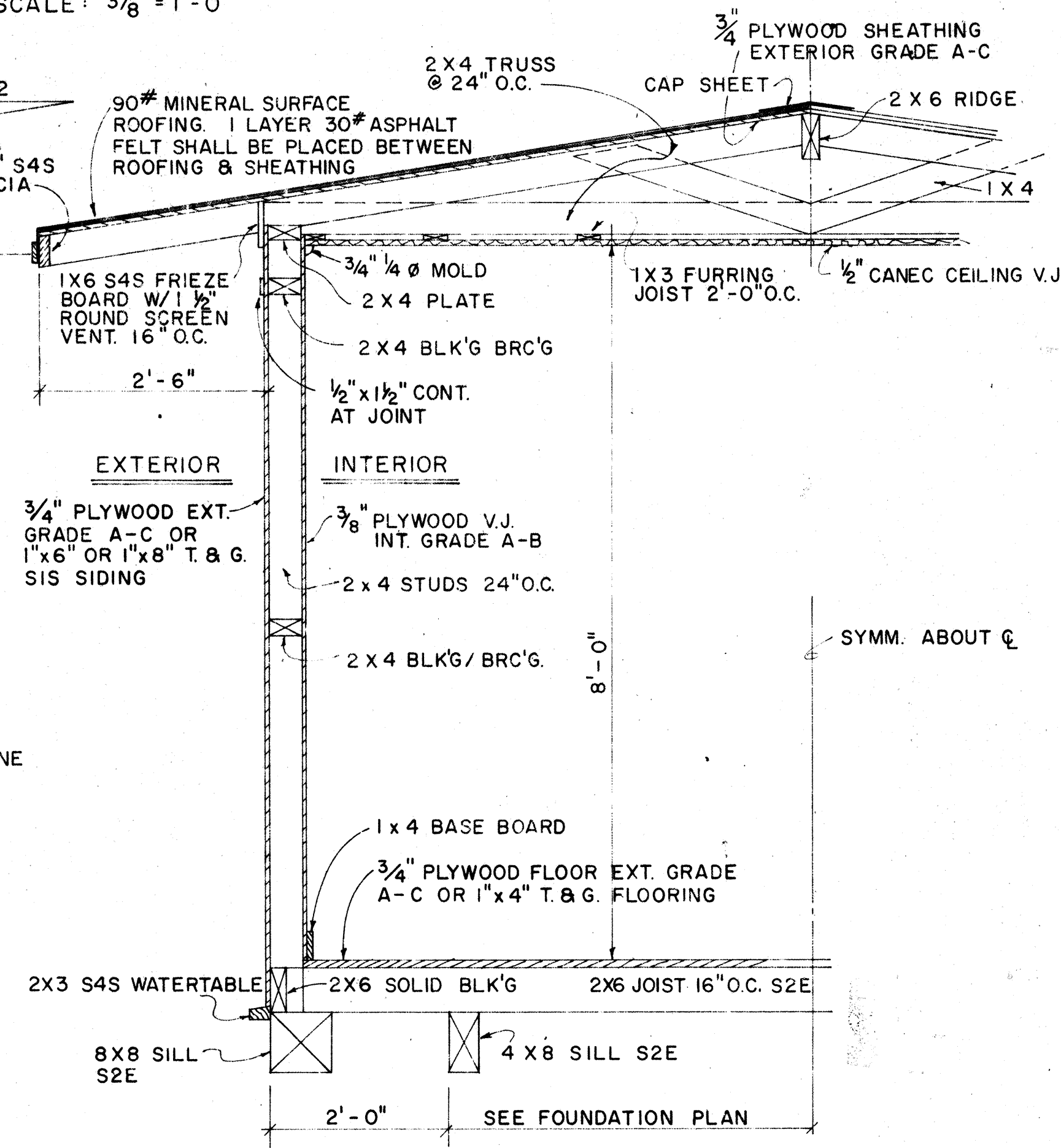
ROOF FRAMING PLAN
SCALE: 3/8" = 1'-0"



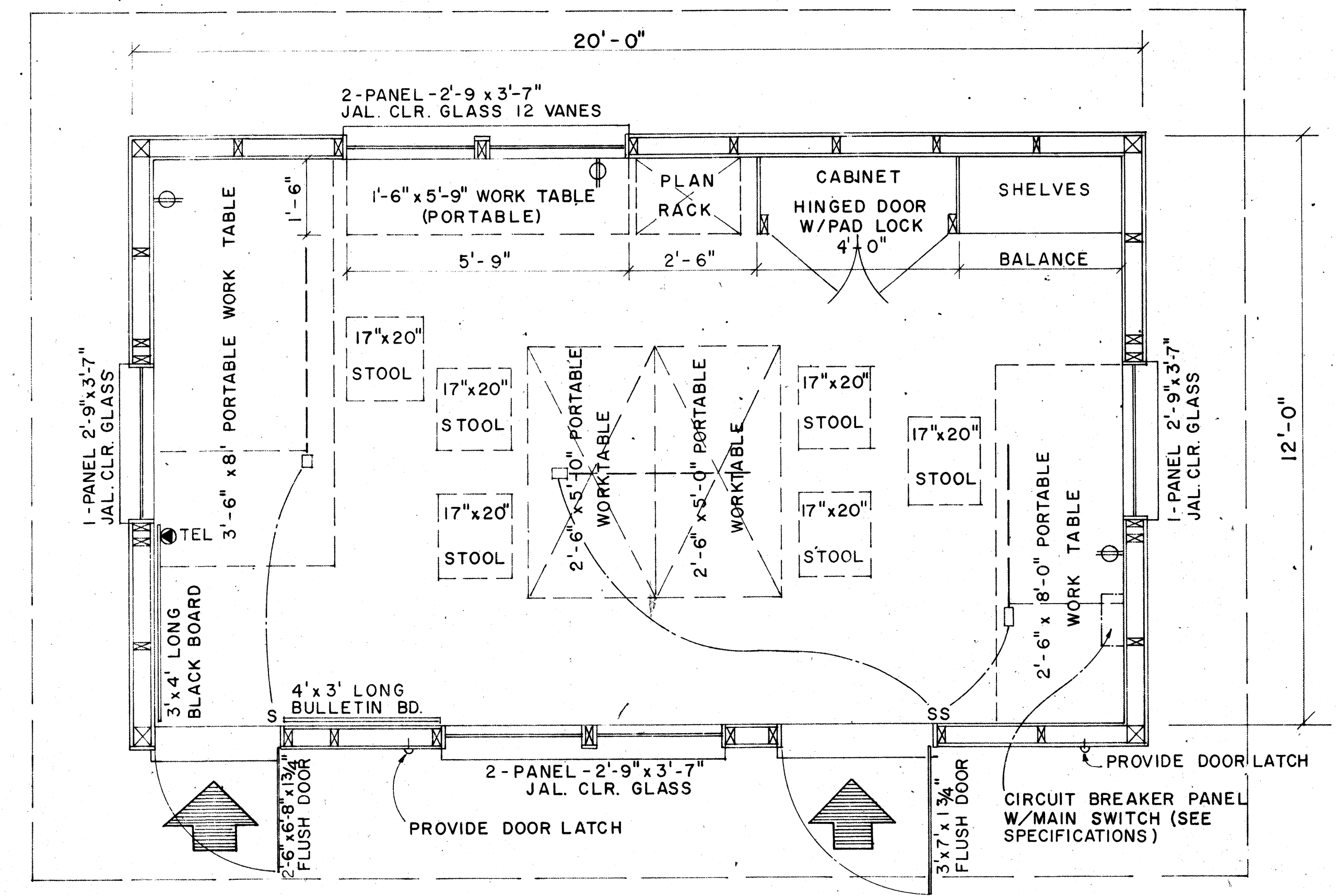
ELEVATION A
SCALE: 3/8" = 1'-0"



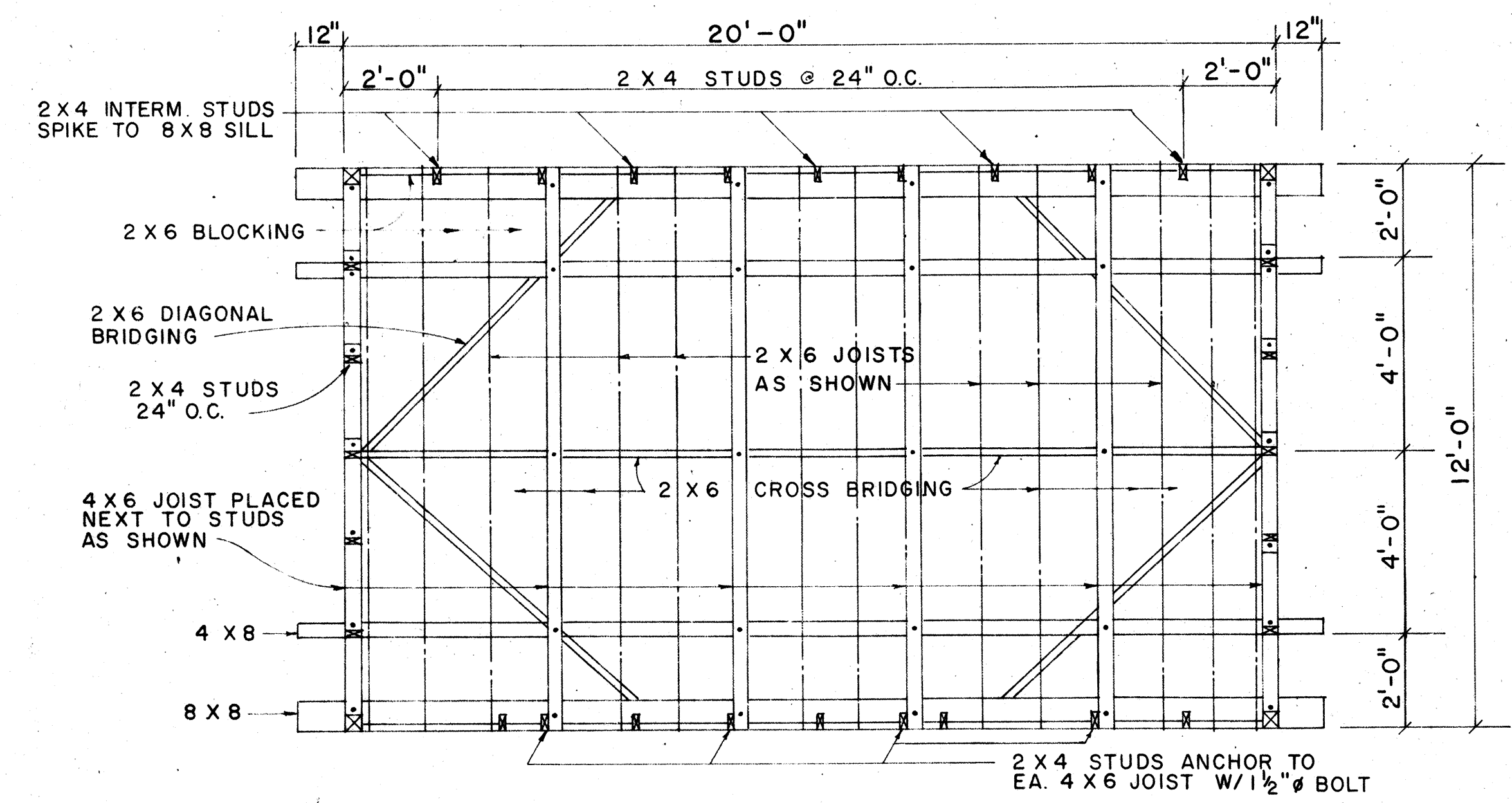
ELEVATION C
SCALE: 3/8" = 1'-0"



TYPICAL WALL SECTION
SCALE: 3/4" = 1'-0"



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



FOUNDATION FRAMING PLAN
SCALE: 3/8" = 1'-0"

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

APPROVED:
ASSISTANT CHIEF, ENGINEERING
DATE 12-10-69

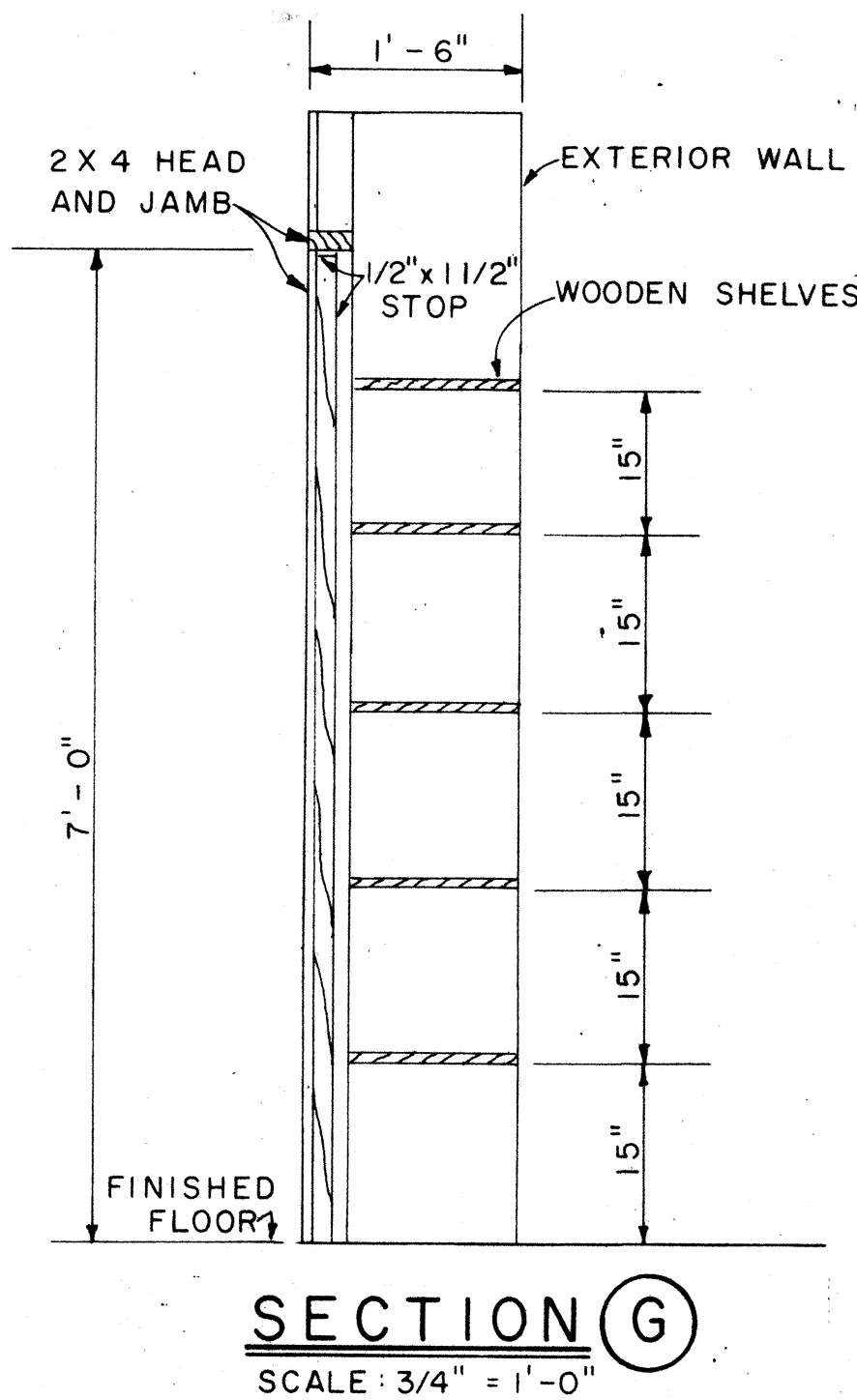
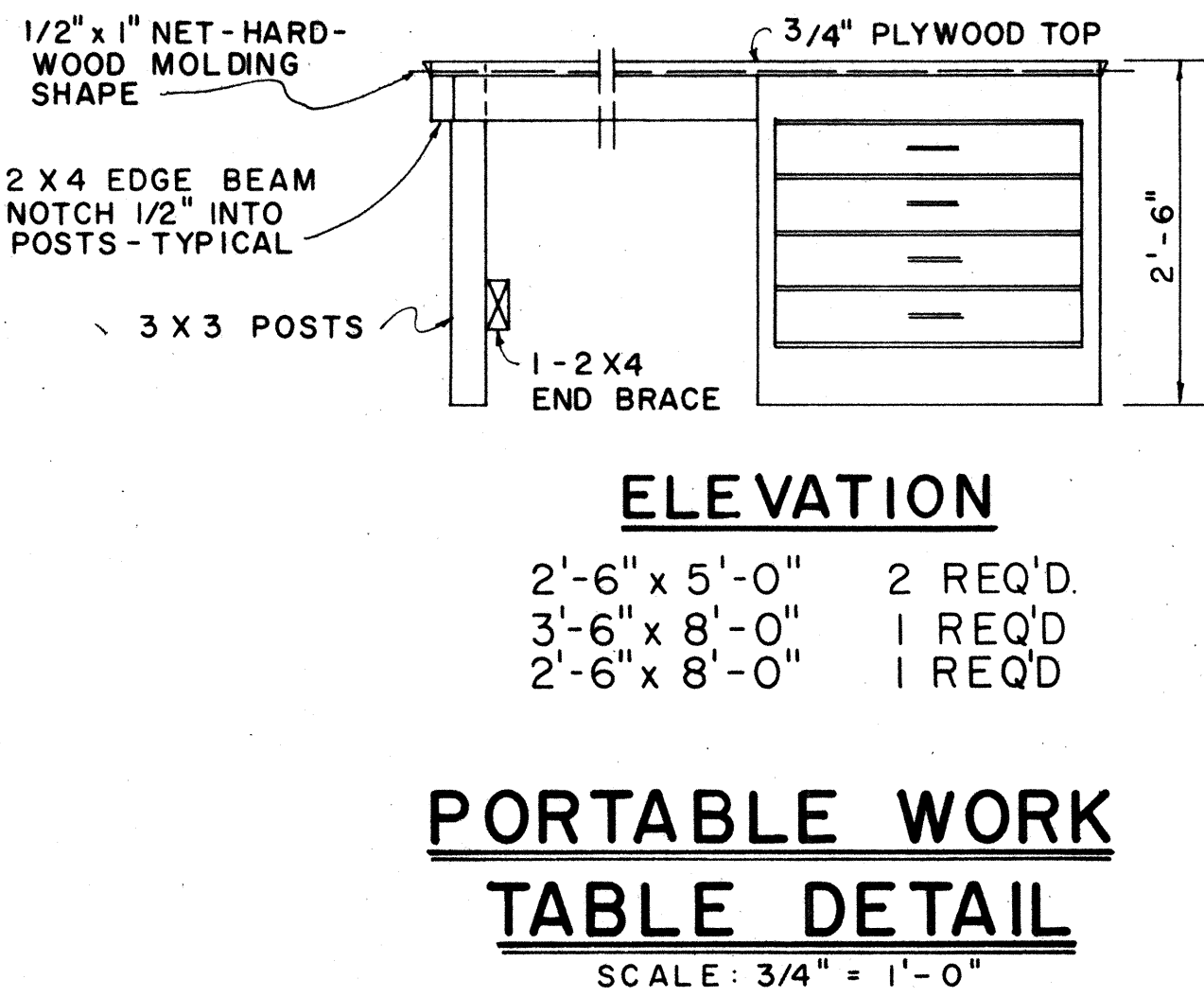
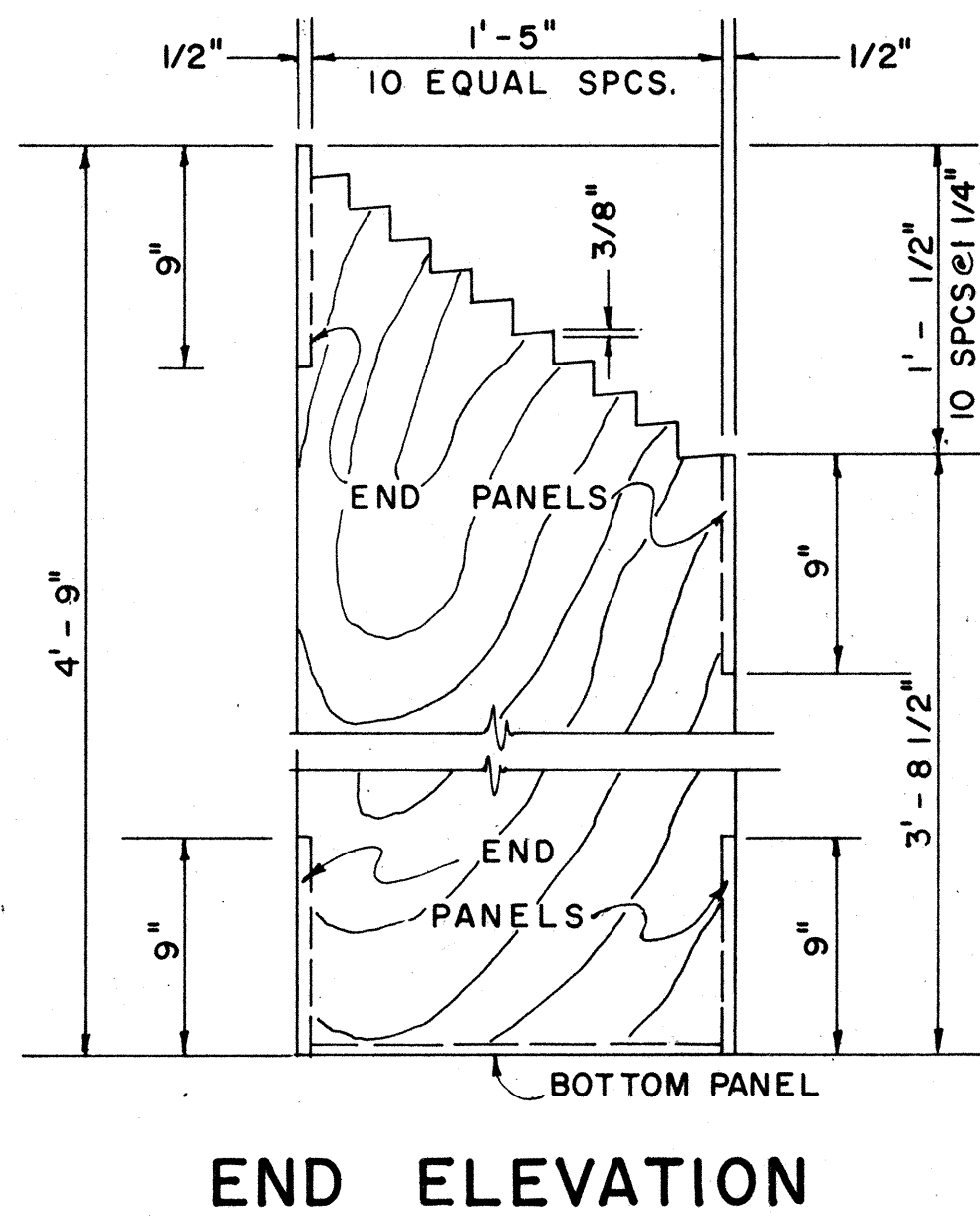
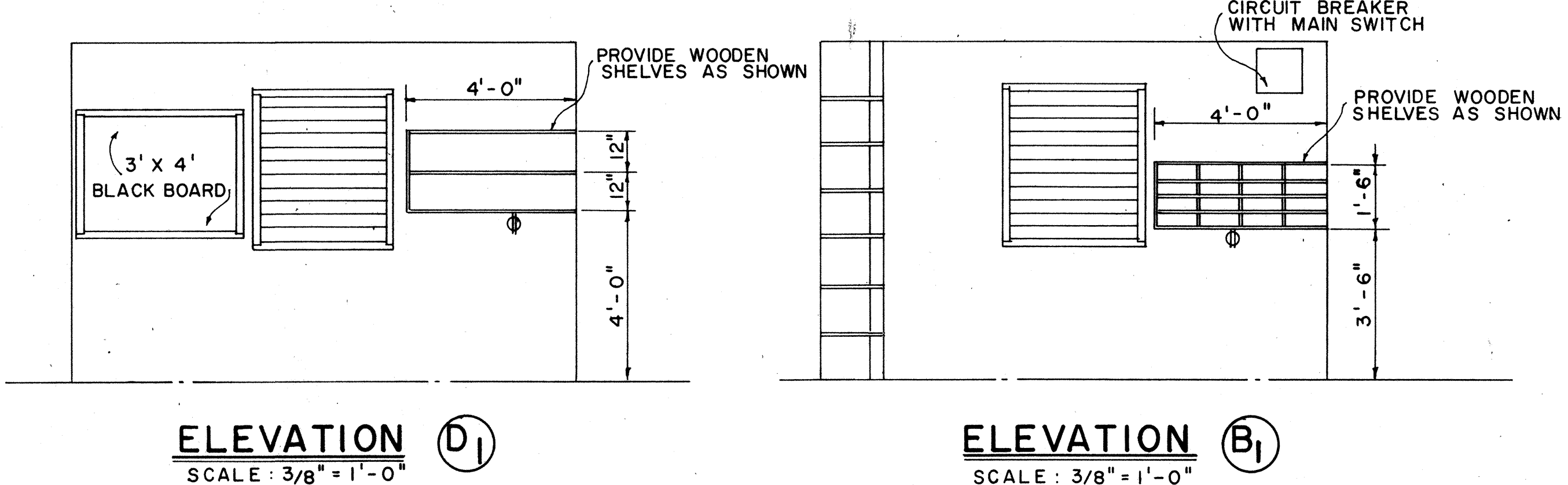
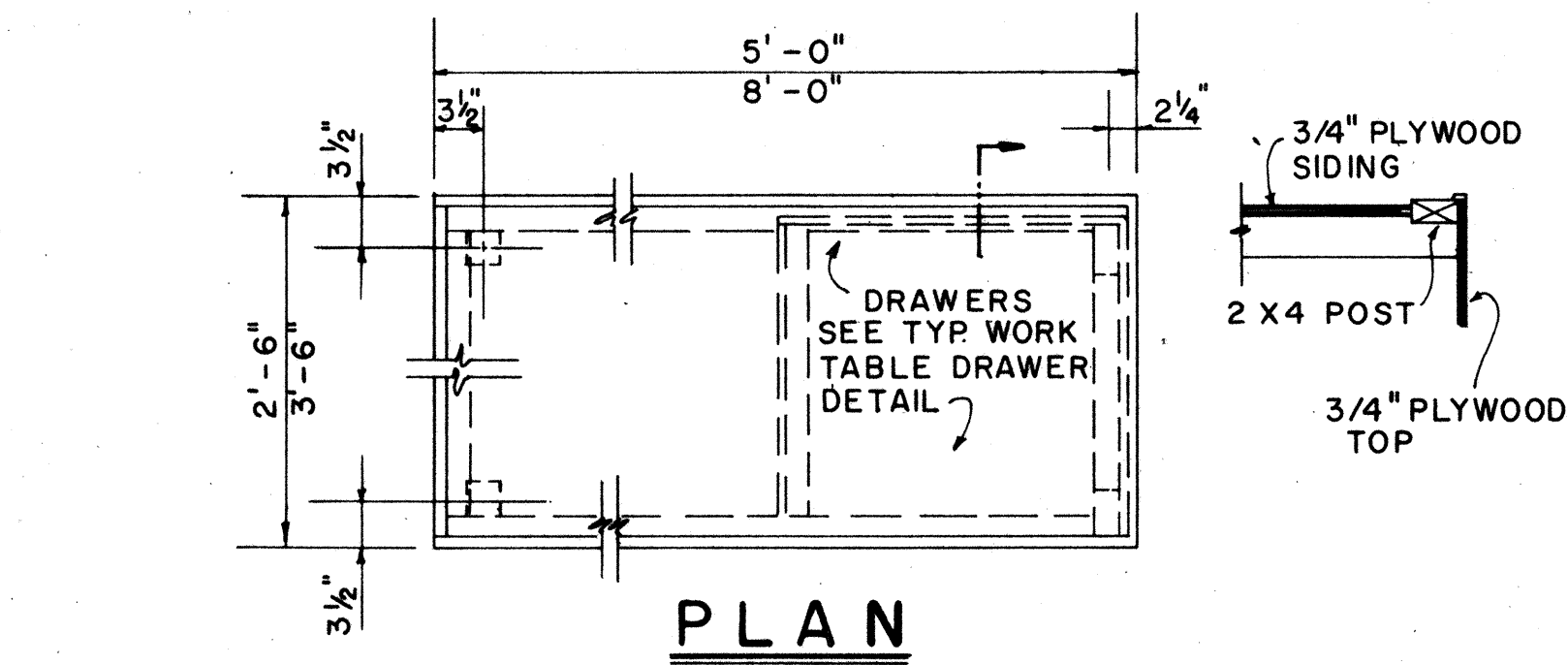
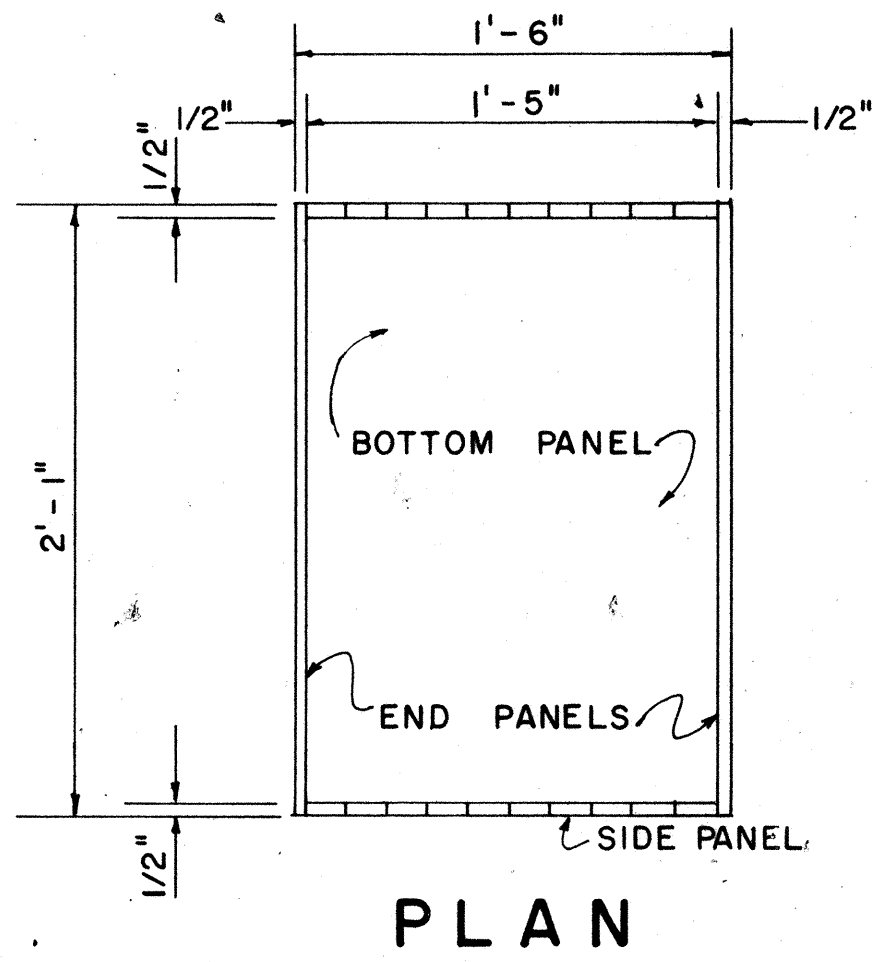
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
FIELD OFFICE

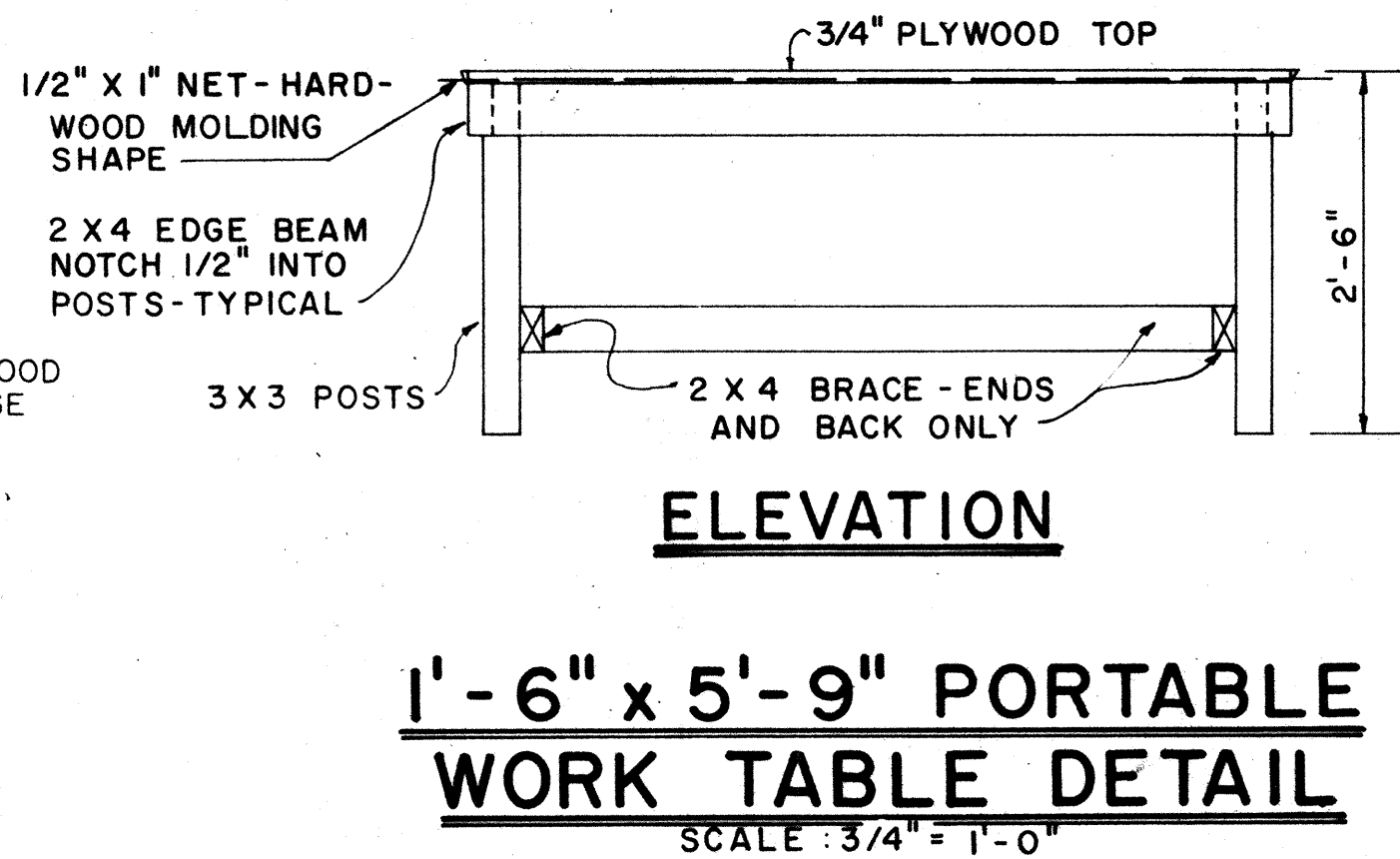
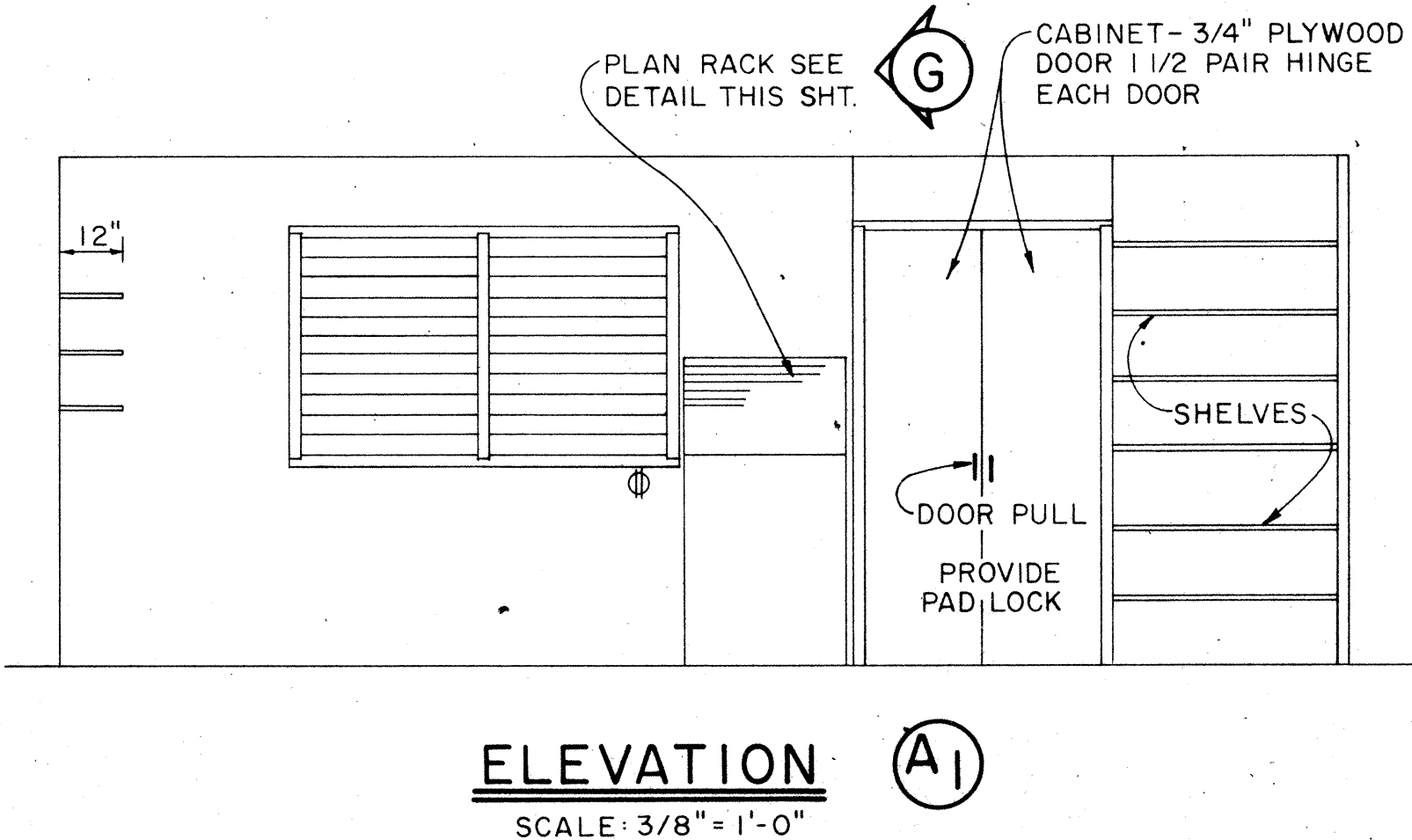
Scale: As Noted
SHEET NO. 7 OF 11 SHEETS DD 636.1

DATE
DRAWN BY
CHECKED BY
DESIGNED BY
QUANTITIES BY
NOTE BOOK
No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	F-076-1(1)	1986	26	121



PLAN RACK DETAIL
SCALE: 1 1/2" = 1'-0"
(ONE REQUIRED)



APPROVAL RECOMMENDED:

 HIGHWAY DESIGN ENGINEER 12-4-69 DATE

APPROVED:

 ASSISTANT CHIEF, ENGINEERING 12-10-69 DATE

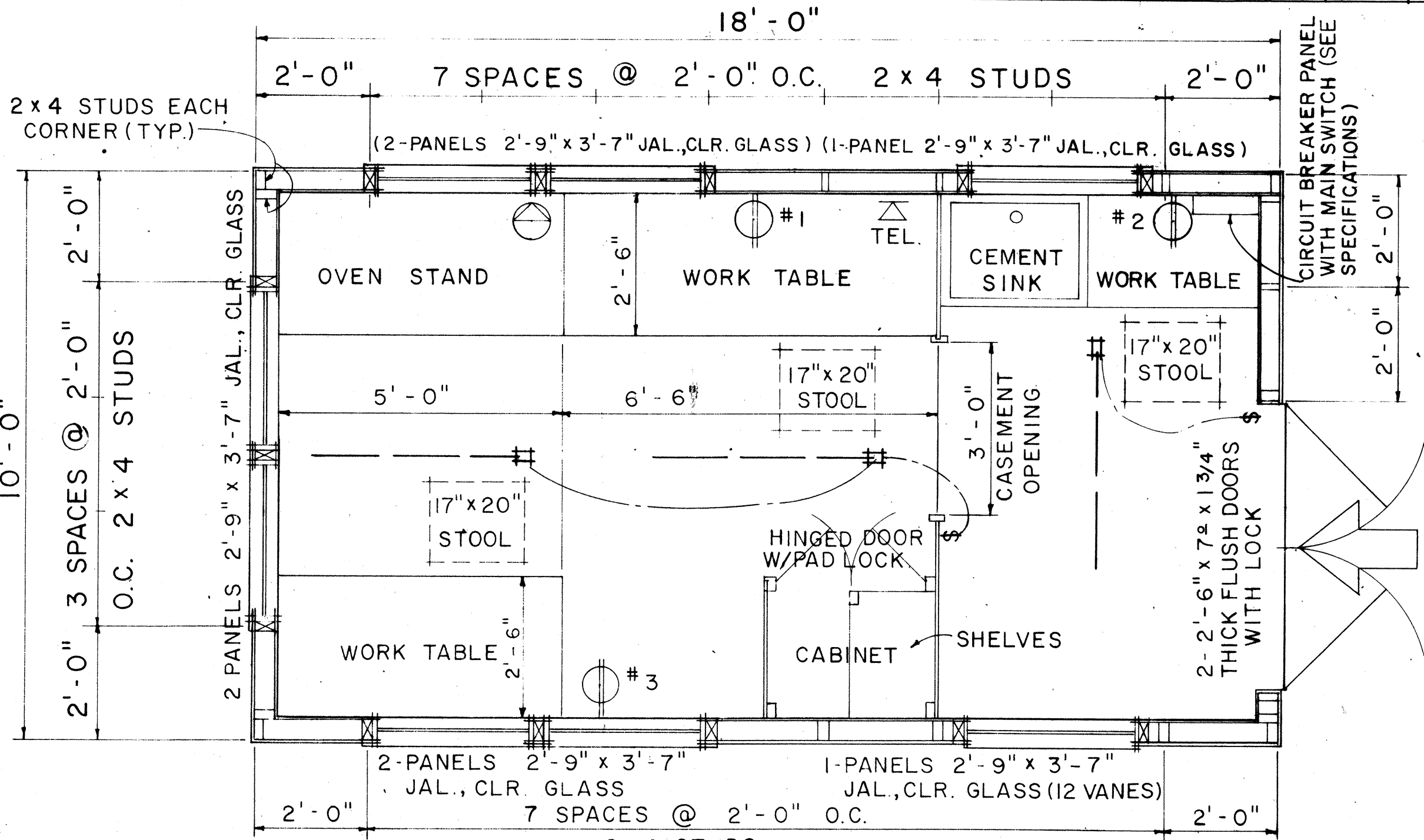
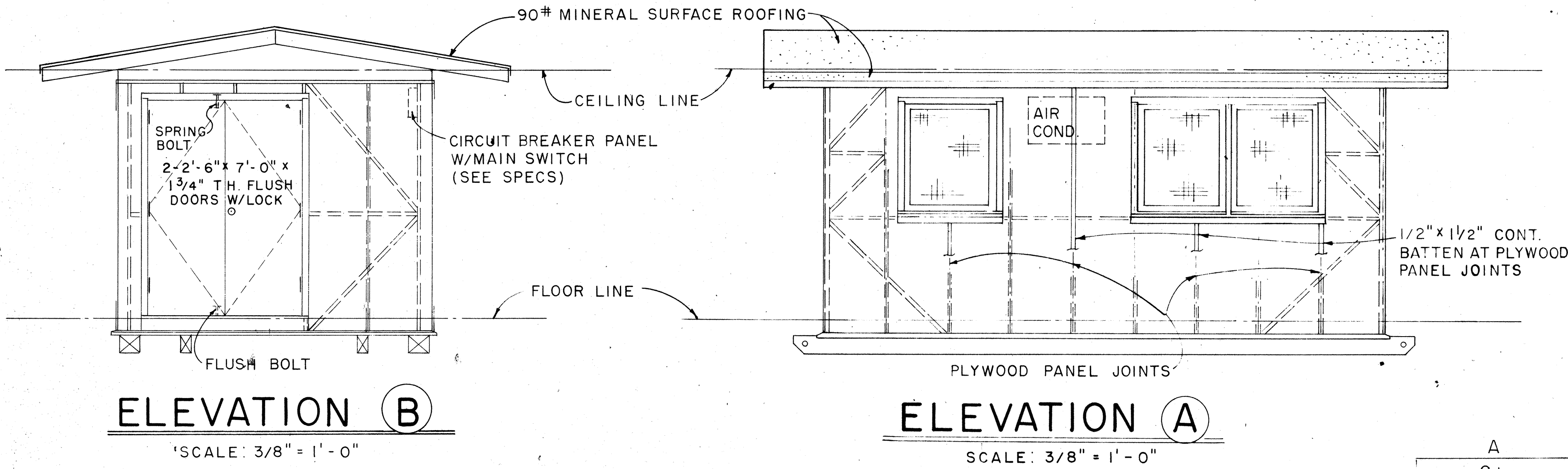
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

FIELD OFFICE

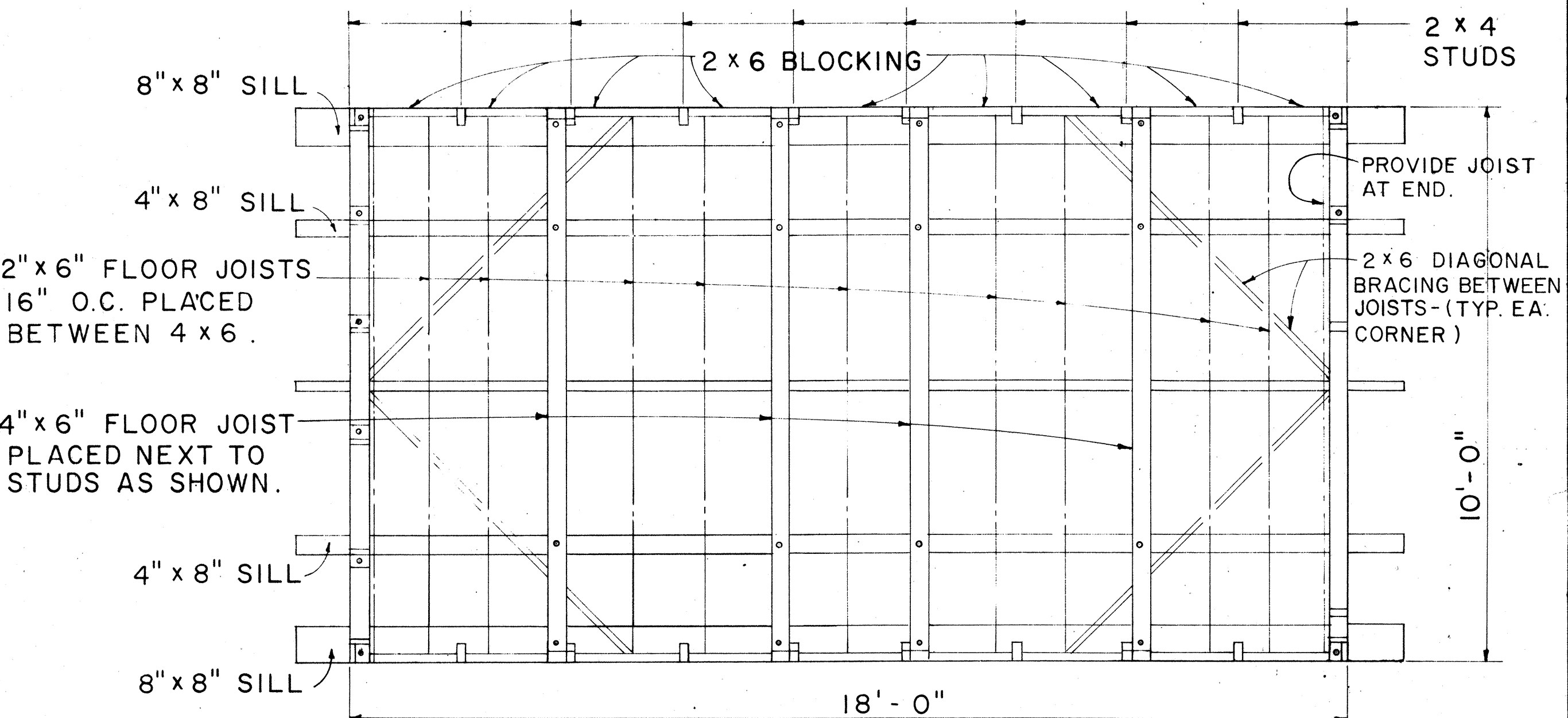
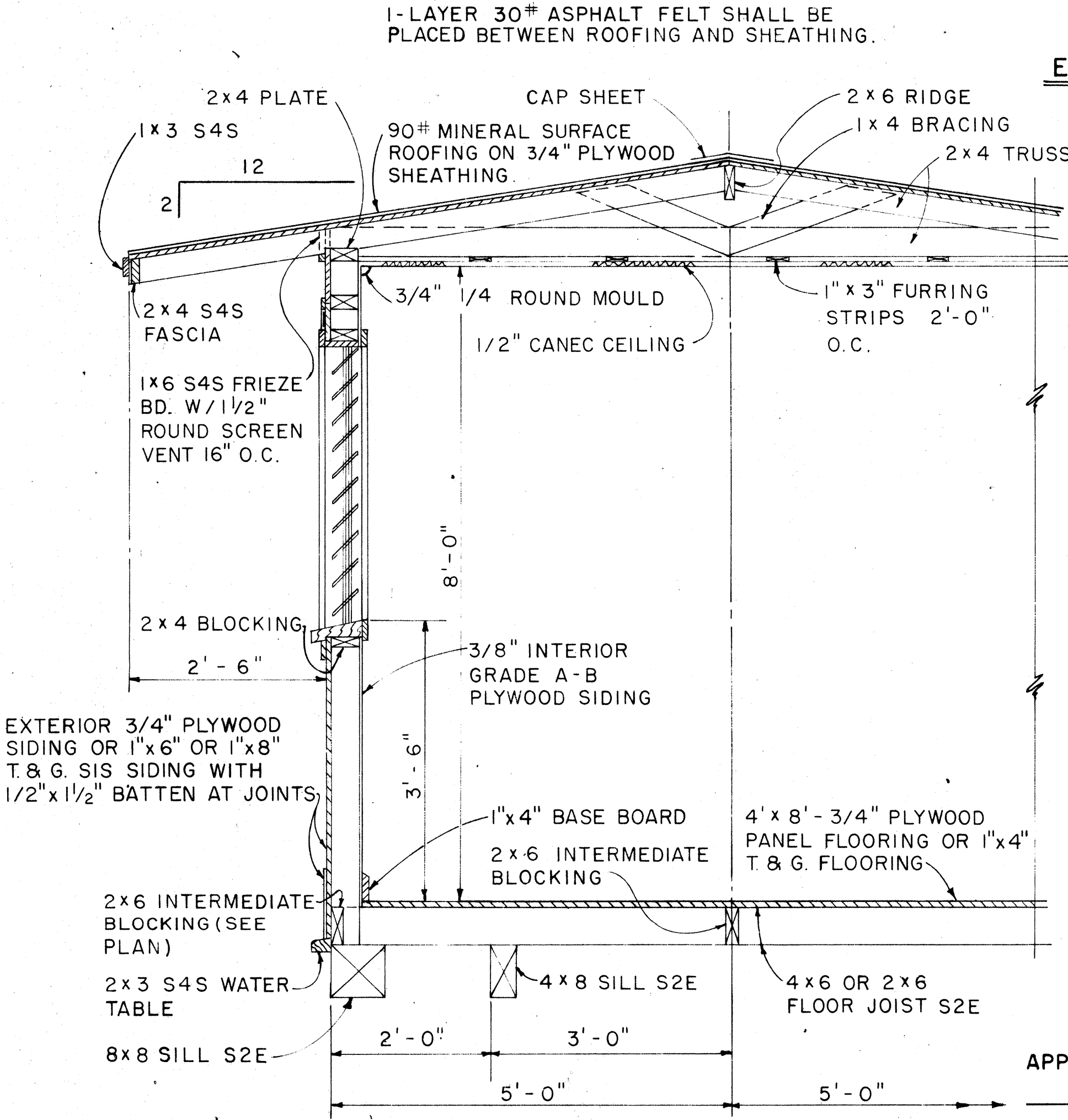
Scale: As Noted

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-076-1(1)	1986	27	121



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

EXTERIOR & INTERIOR KEY



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

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

APPROVED:
ASSISTANT CHIEF, ENGINEERING
DATE: 12-10-69

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

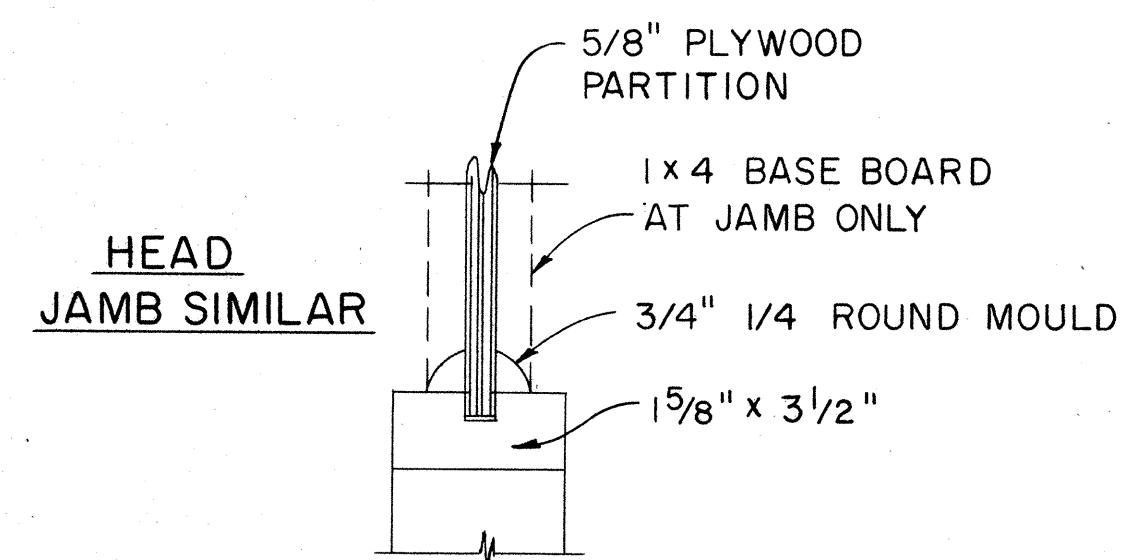
PROJECT SITE LABORATORY

Scale: As Noted

SHEET No. 27 OF 121 SHEETS DD 636.3

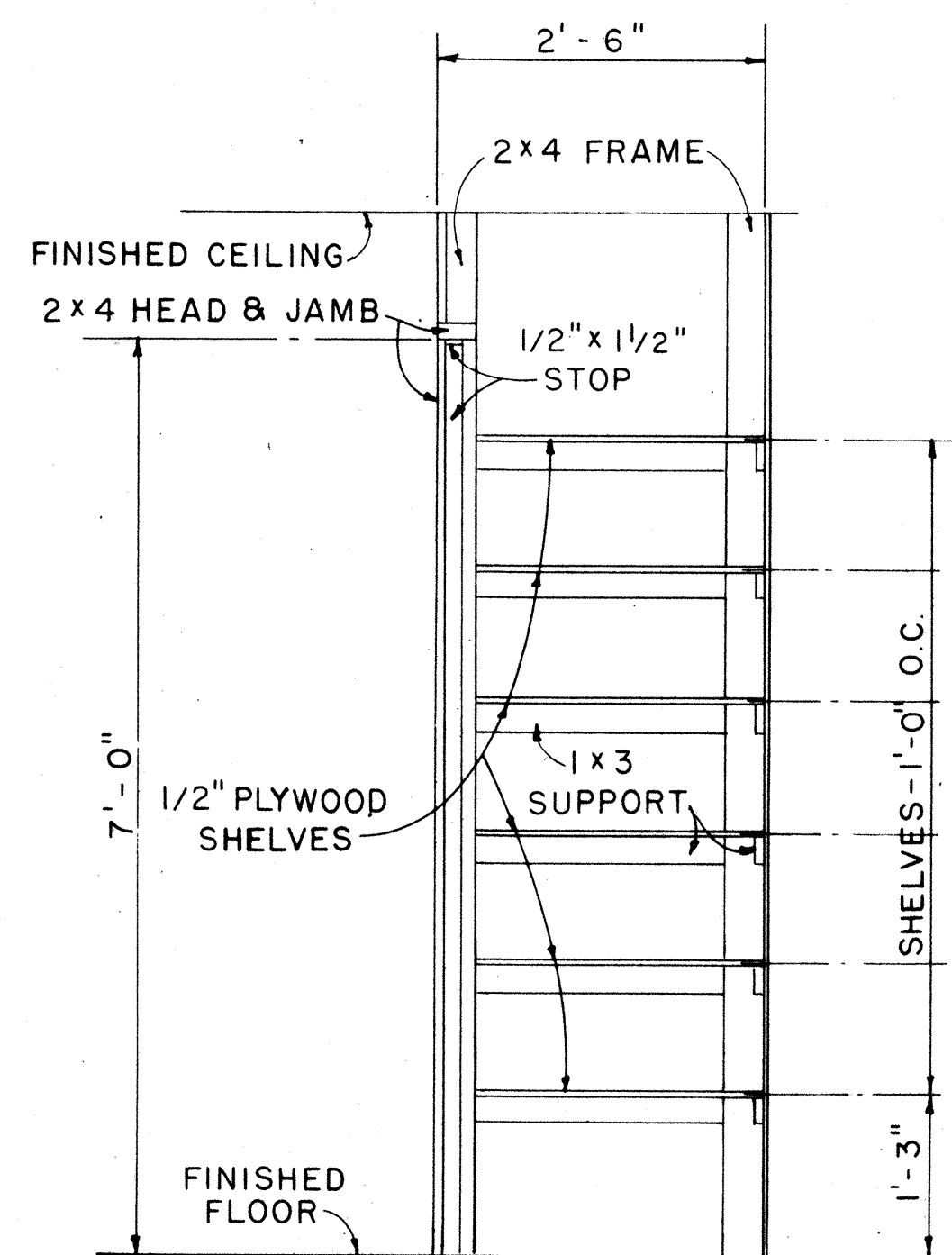
DATE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-076-1(1)	1986	28	121



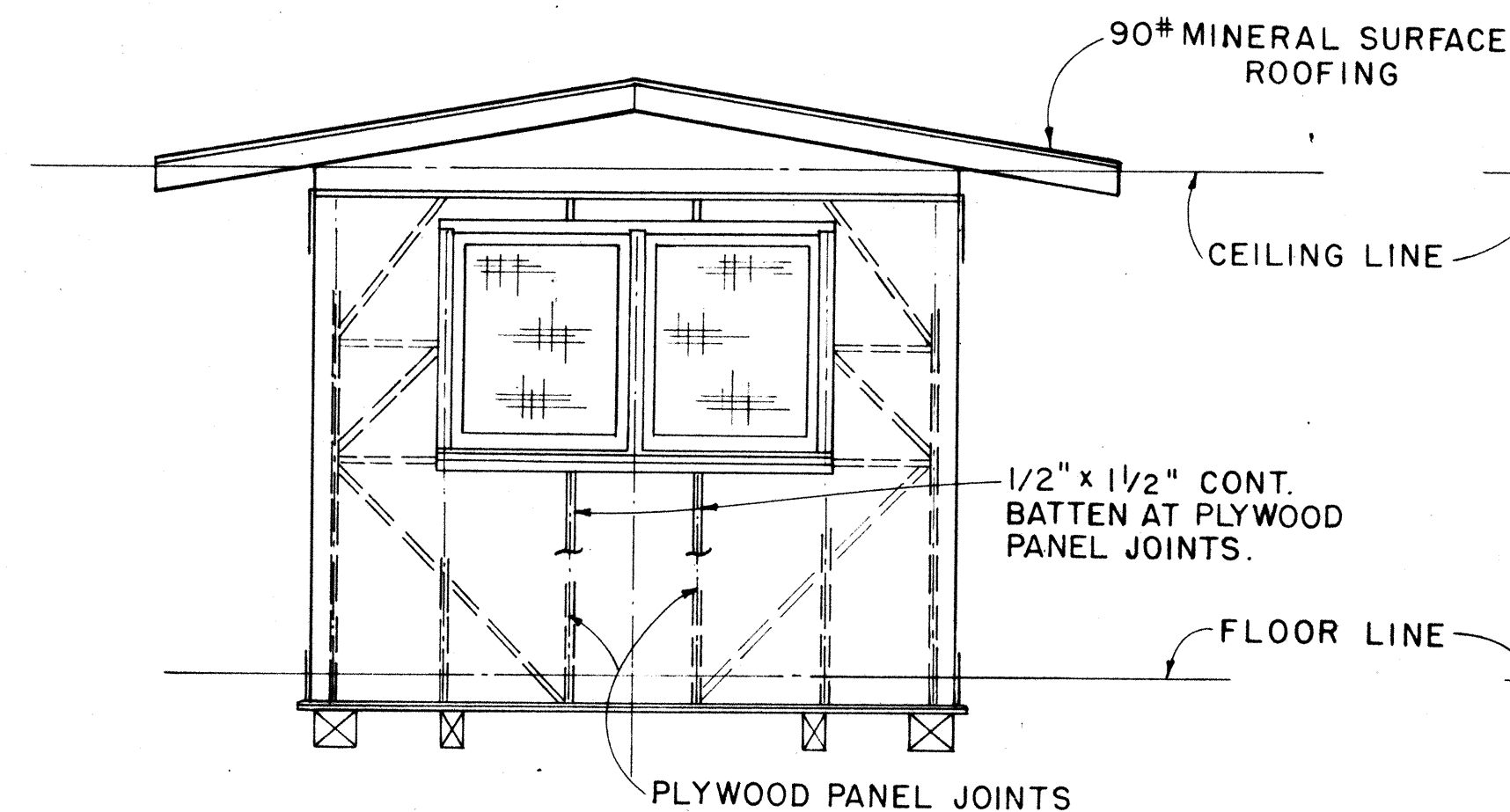
CASEMENT DETAIL

SCALE: 3" = 1'-0"



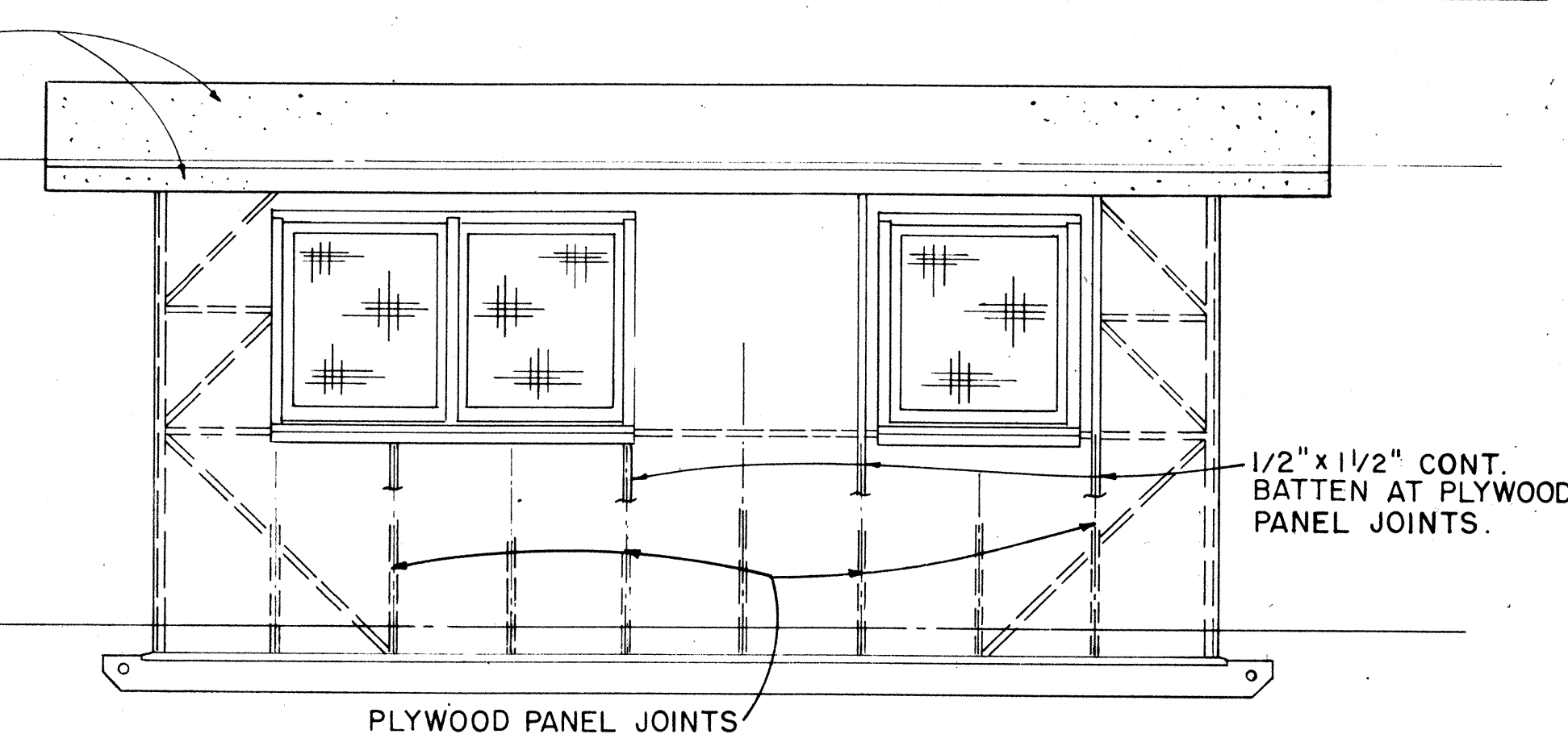
CABINET DETAIL

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



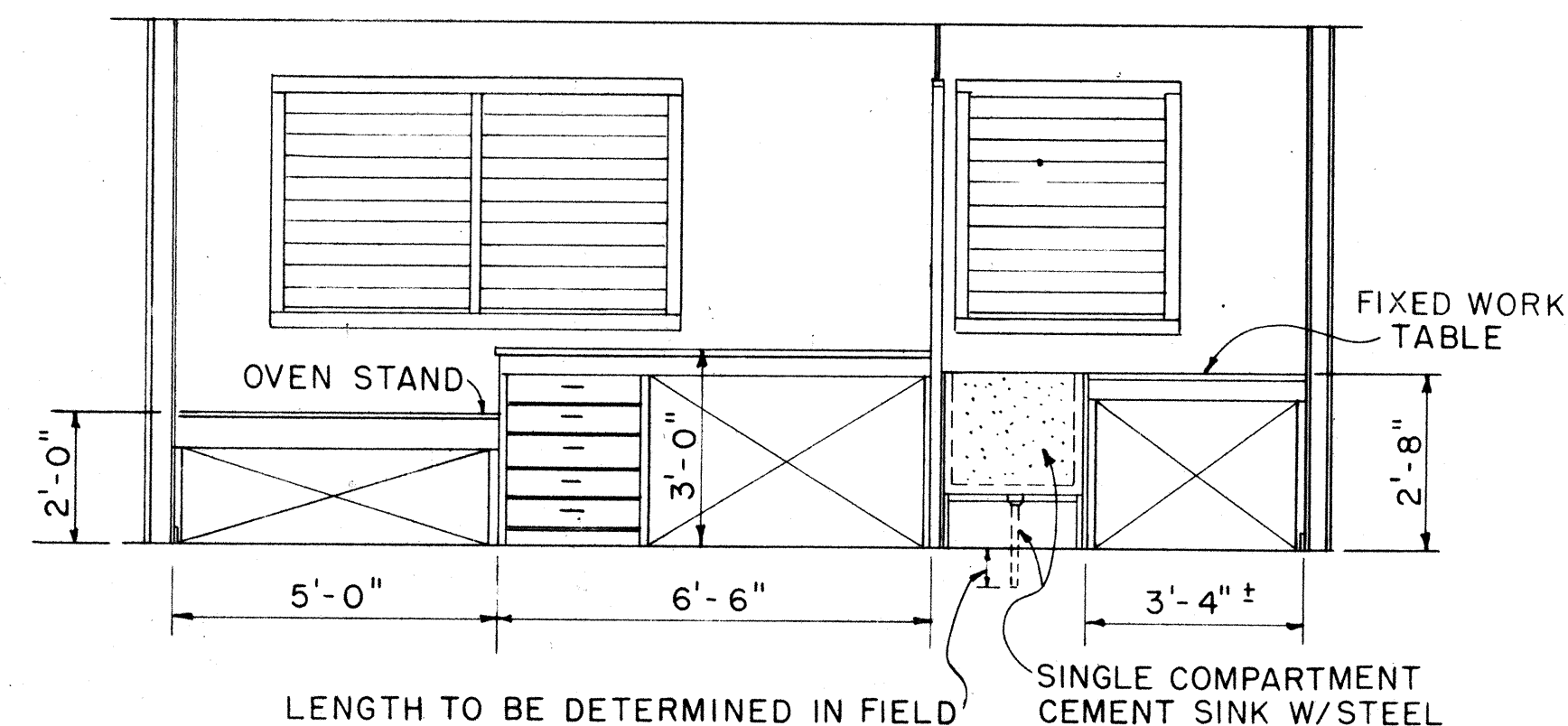
ELEVATION D

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



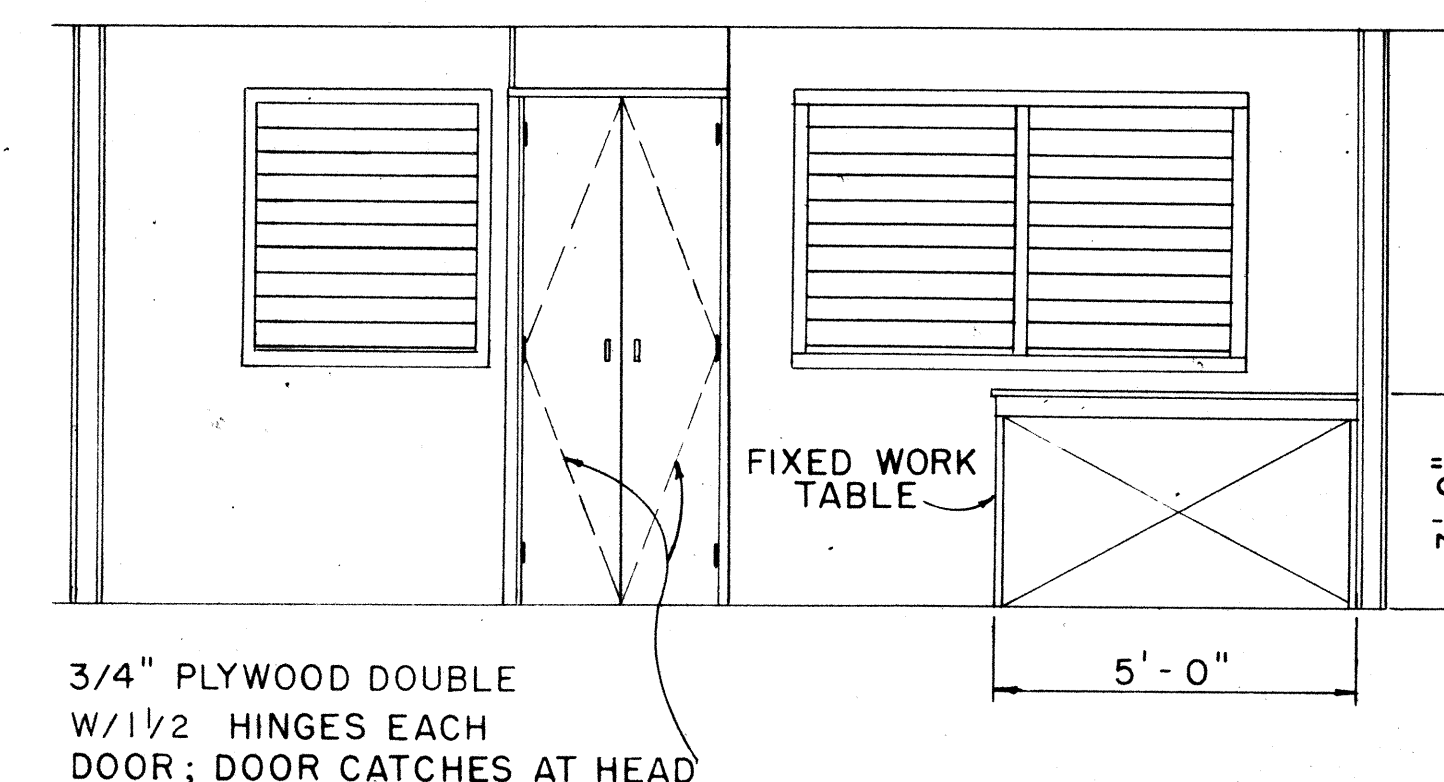
ELEVATION C

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



ELEVATION C1

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

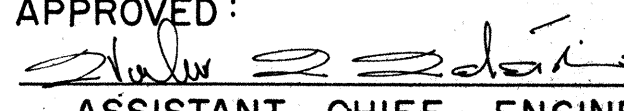


ELEVATION A1

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

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

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

APPROVED:
 12-10-69
ASSISTANT CHIEF, ENGINEERING DATE

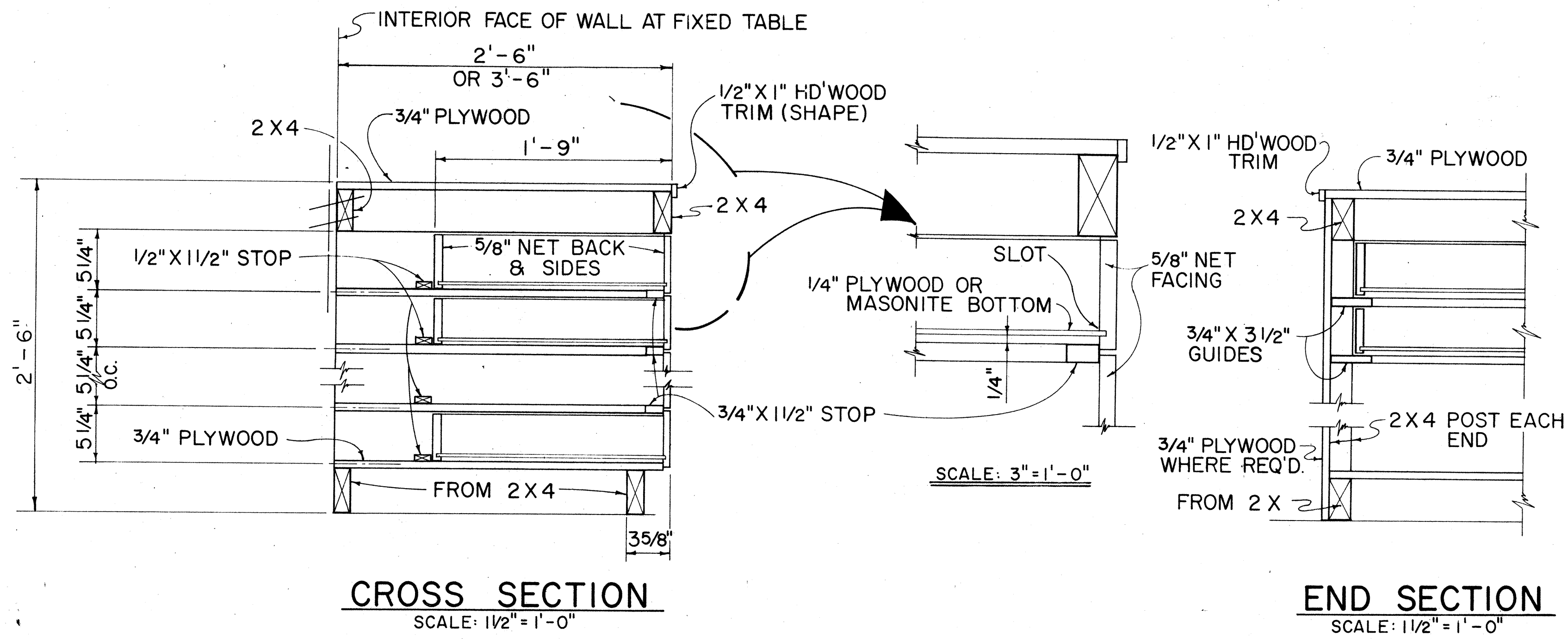
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

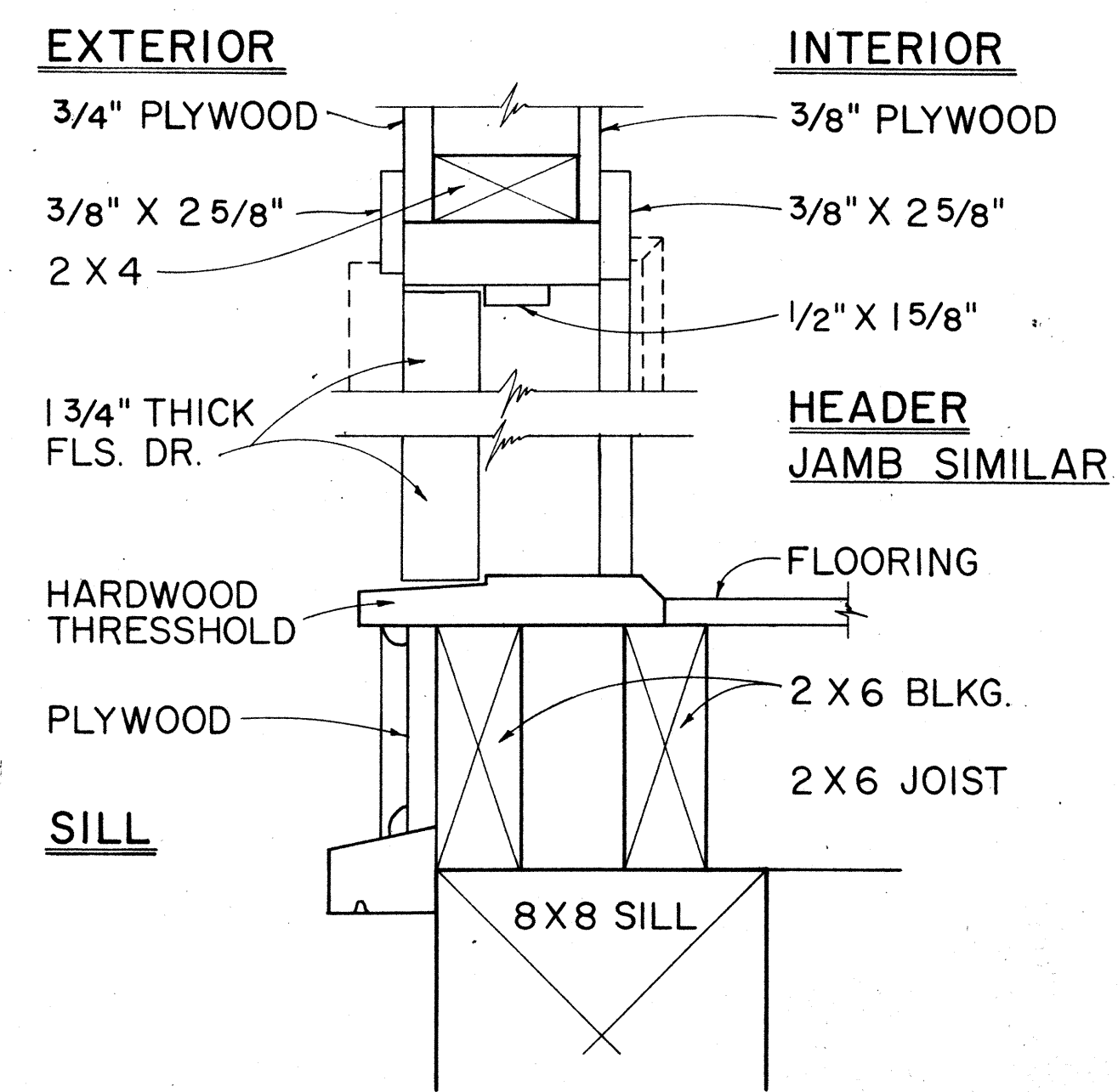
PROJECT SITE LABORATORY

Scale: As Noted

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	F-076-K(1)	1986	29	121

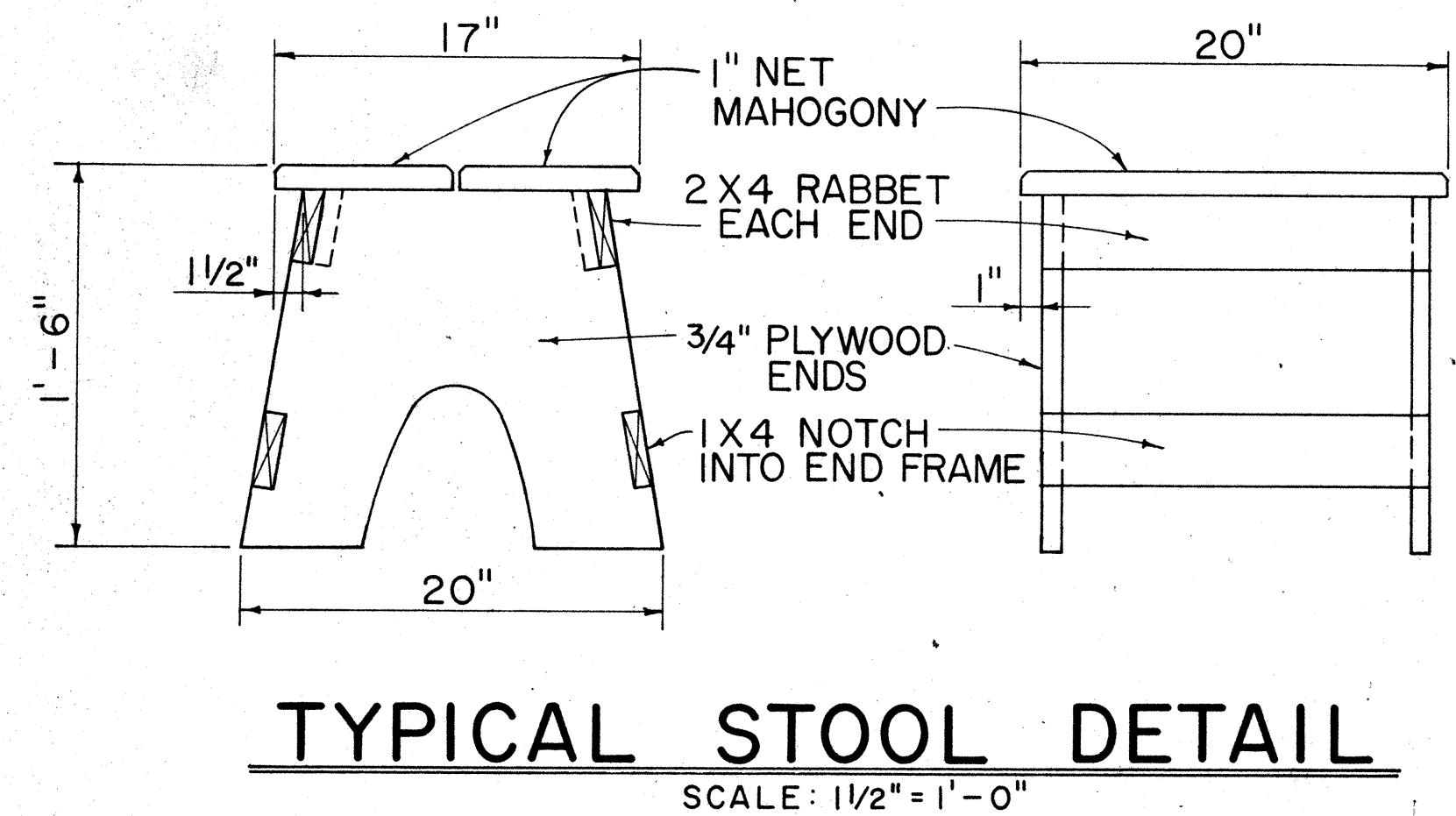


TYPICAL WORK TABLE DRAWER DETAIL

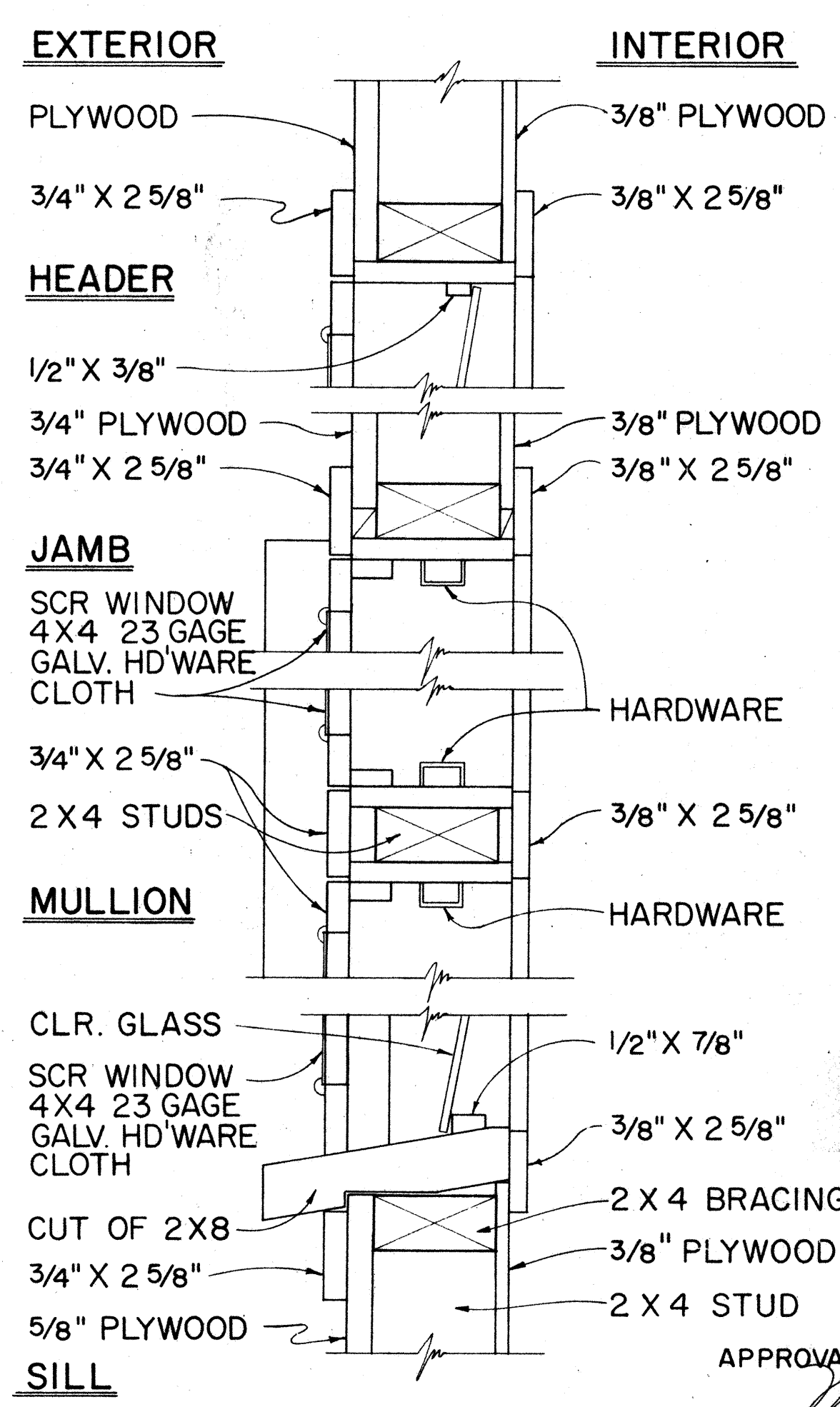


TYP. SWING OUT DOOR

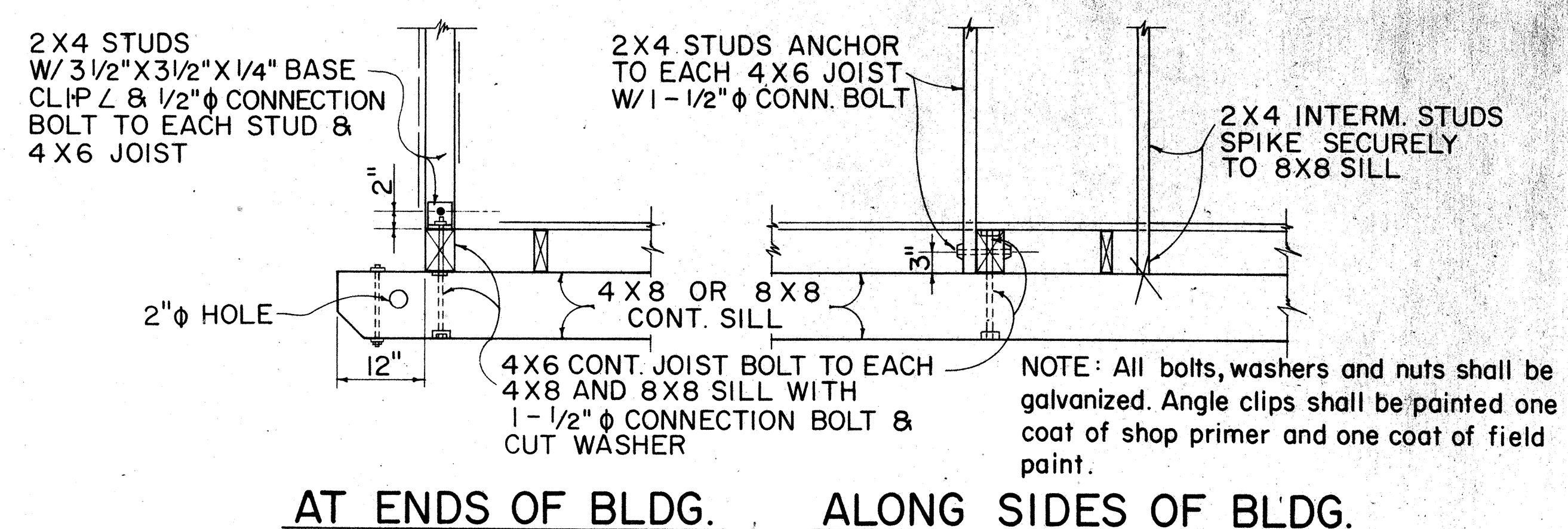
TYPICAL SINGLE OR DOUBLE EXTERIOR DOOR DETAIL



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: 3/4" = 1'-0"



TYPICAL 2 X 4 STUD & 4 X 6 FLOOR JOIST BASE CONNECTION DETAILS

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FIELD OFFICE
&
PROJECT SITE LABORATORY

Scale: As Noted

BORING LOGS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-076-1(1)	1986	ADD 29S-1	121

DEPTH (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	DESCRIPTION	DEPTH (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	DESCRIPTION	DEPTH (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	DESCRIPTION
BORING B1 (Sta. 207+75) Surface Elev. = 38.6±							BORING B4 (Sta. 237+75) Surface Elev. = 30.0±							BORING B7 (Sta. 276+75) Surface Elev. = 29.5±						
0	CL		34	98.8	28.3	Silty CLAY-Brown, moist, medium stiff to stiff, with gravels.	0	CL		21	96.0	28.3	Silty CLAY-Brown, moist, medium stiff.	0	CL		34	93.8	23.9	Silty CLAY-Brown, moist, medium stiff. Grading to reddish brown color from 2 feet.
5			31	101.4	25.4		5			61	116.3	14.5	CORAL-Mottled tan and brown, moist, dense.	5			35	Tip Re-		CORAL-Tan, slightly moist, medium hard to hard.
10			72	115.9	13.5	CORAL-Tan, moist, medium dense to dense. End boring at 11.5 feet.	10			15	No Penetration		Grading hard from 9 ft. End boring at 10 feet.	10			20	No Recovery		End boring at 9.5 feet.
BORING B2 (Sta. 217+75) Surface Elev. = 28.2±							BORING B5 (Sta. 247+75) Surface Elev. = 33.6±							BORING B8 (Sta. 277+75) Surface Elev. = 26.6±						
0	CL		55	96.9	20.4	Silty CLAY-Brown, moist, medium stiff with gravels. Grading stiff from 12 inches.	0	CL		35	87.4	25.0	Silty CLAY-Brown, moist, stiff. Covered by 12 inches of gravelly silt.	0	CL		32	90.6	31.3	Silty CLAY-Brown, slightly moist to moist, medium stiff. Grading to reddish brown color from 12 inches.
5			27	108.7	12.5	CORAL-Tan, slightly moist, medium dense. Pocket of brown silt at 4.5 feet.	5			77	107.5	7.1	CORAL-Mottled tan, slightly moist, dense to medium hard. Grading medium dense from 7 feet. End boring at 10.5 feet.	5			20	No Re-		CORAL-Tan, slightly moist, medium hard to hard.
10			88	110.8	9.8	End boring at 10 feet.	10			26	100.7	9.3		10			15	No Penetration		End boring at 10 feet.
BORING B3 (Sta. 227+75) Surface Elev. = 29.9±							BORING B6 (Sta. 258+50) Surface Elev. = 30.7±							BORING B9 (Sta. 287+75) Surface Elev. = 22.1±						
0	CL					FILL-Silty clay, brown, slightly moist, medium stiff, with gravels and coral fragments.	0	CL		27	91.5	28.9	Silty CLAY-Brown, moist, medium stiff.	0			20	No Re-		CORAL-Tan, slightly moist, medium hard to hard, with pockets of sand. Covered by 3 inches of brown clayey silt.
5	ML		18	91.2	24.7	FILL-Clayey silt, reddish brown, moist, firm to medium stiff.	5			61	110.2	9.3	CORAL-Tan, slightly moist, dense.	5			15	No Penetration		
10	CL		49	100.6	25.8	FILL-Clayey silt, light grayish brown, moist, medium stiff to stiff, with coral fragments and gravels. Silty CLAY-Dark brown, moist, stiff. End boring at 10.5 feet.	10			69	96.5	8.6	End boring at 10 feet.	10			56	100.5	9.1	End boring at 10.5 feet.

1/6/86	Boring Logs added.
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
BORING LOGS
FORT WEAVER ROAD
Renton Road to Hanalei Street
F.A.P. Proj. No. F-076-1(1)
Date: Jan., 1986
SHEET NO. 1 OF 1 SHEETS

ADD.29S-1