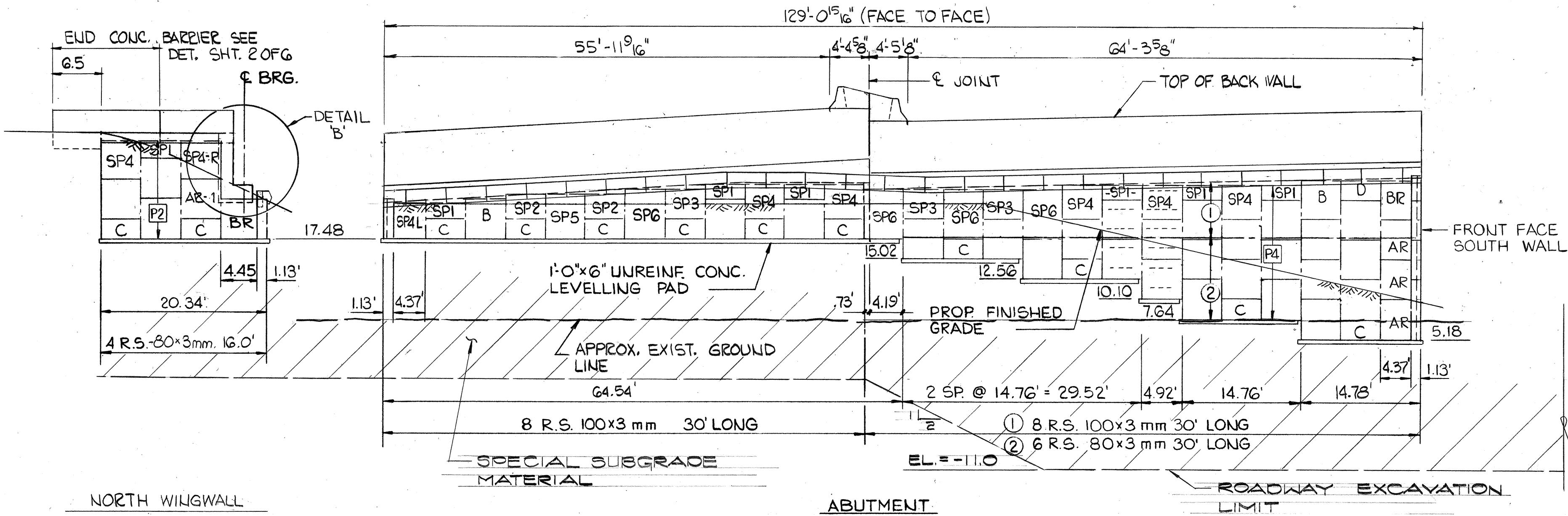
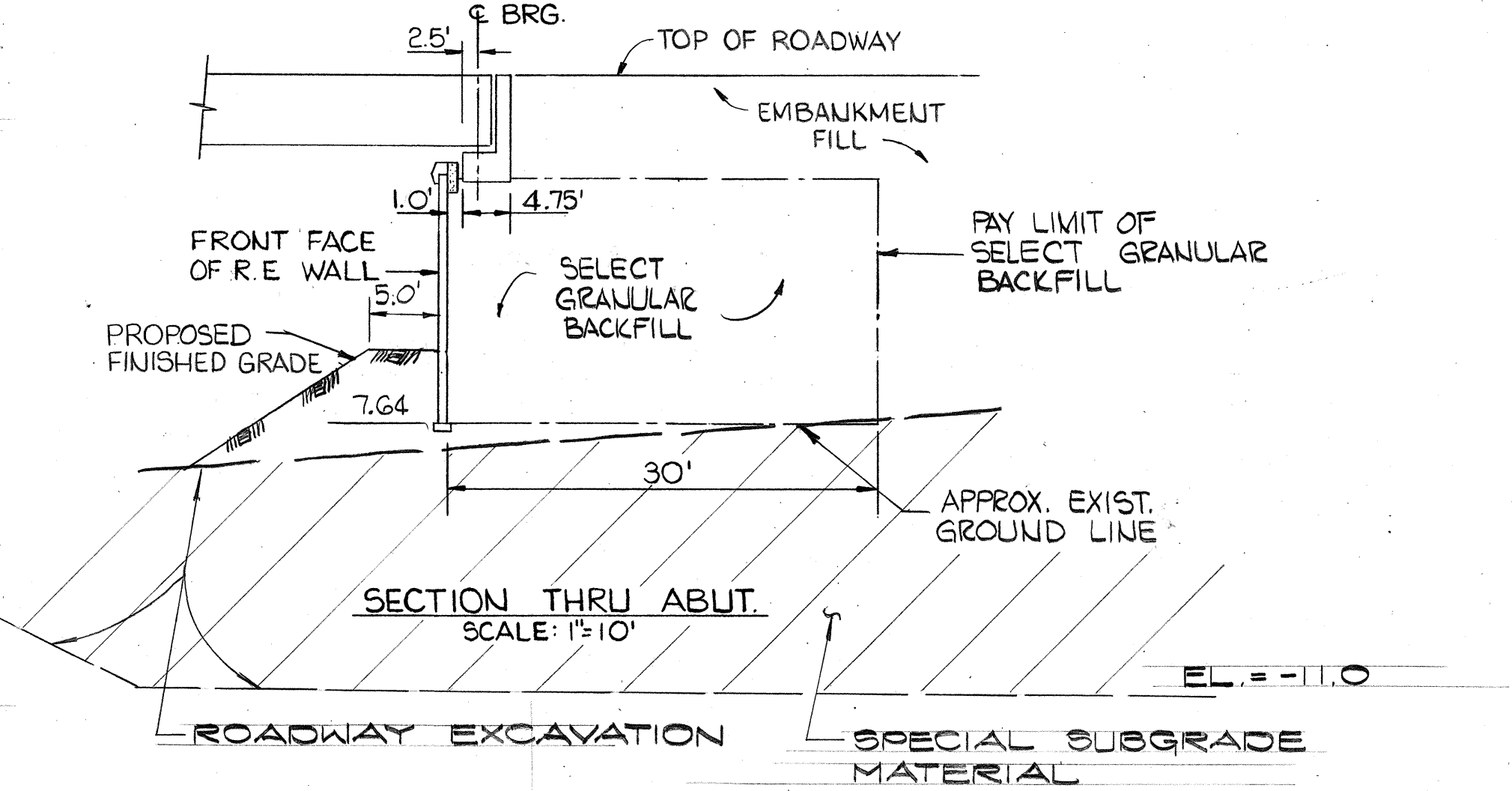
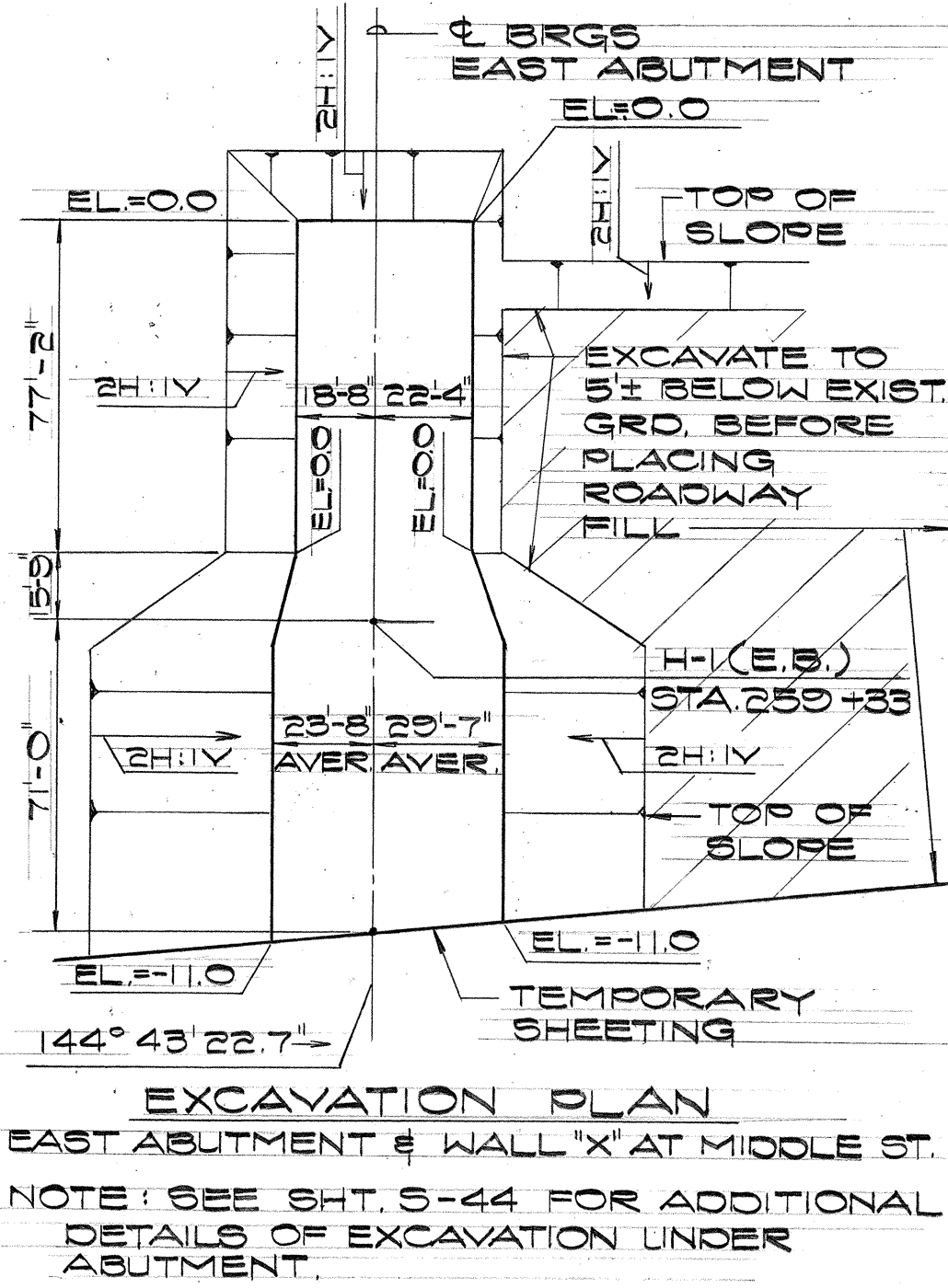
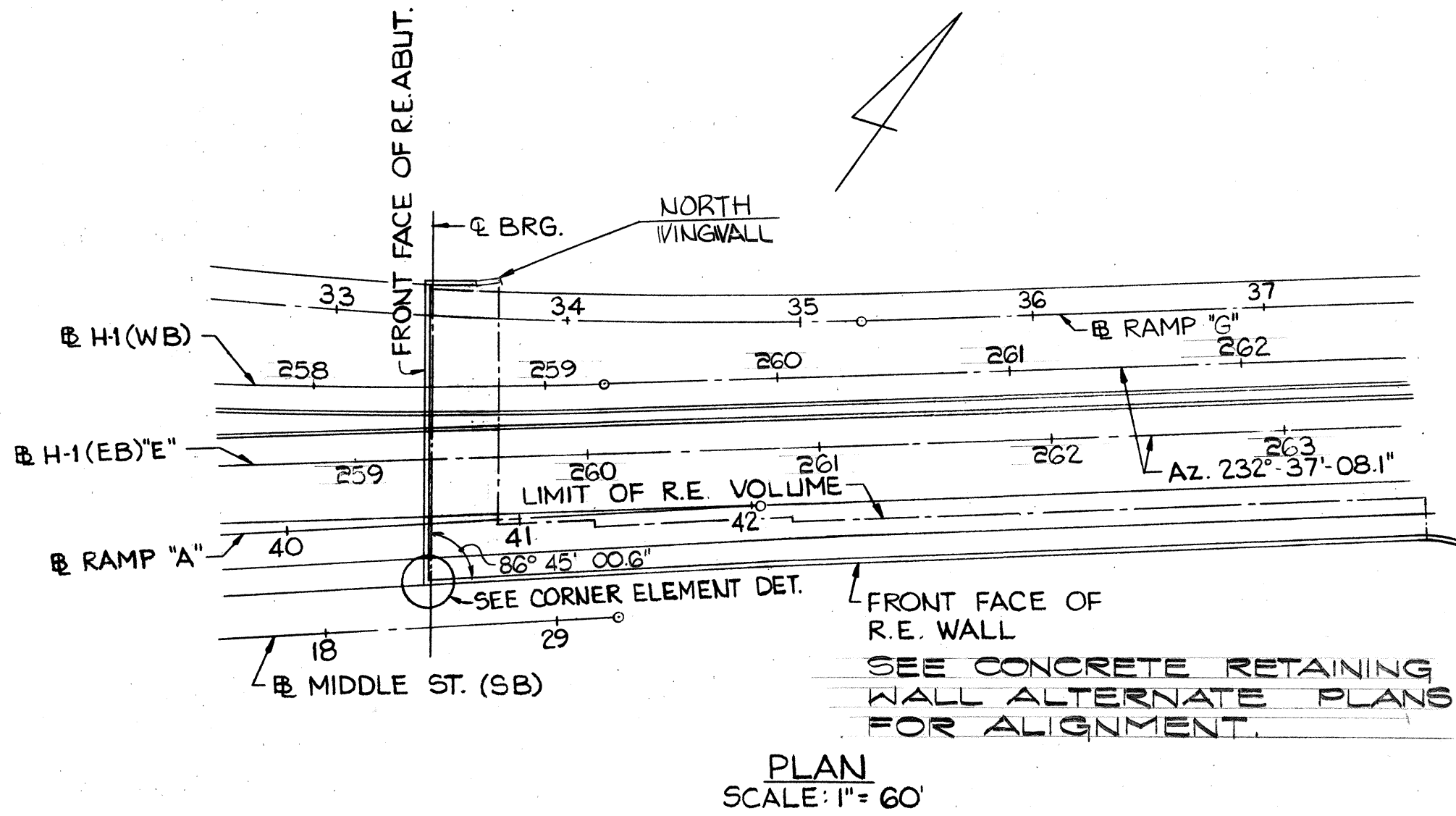


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	111(13)117	1977	326	394



ITEM NO.	PAY ITEMS	UNIT	QUANTITY
203.0102	(D) ROADWAY EXCAVATION FOR H-1 BETWEEN STA 258+70 AND STA 263+80	C.Y.	16,800
206.7301	(D) SPECIAL SUBGRADE MATERIAL FOR REINFORCED EARTH WALL ABUTMENT	C.Y.	5,551
503.1056	(D) CONCRETE IN REINFORCED EARTH WALL FOOTING (CLASS "B")	L.S.	(9.00 C.Y.)
503.1832	(D) CONCRETE IN REINFORCED EARTH WALL ABUTMENT SHELF	L.S.	(167 C.Y.)
507.7102	(D) CONCRETE BARRIER ON REINFORCED EARTH WALL	L.F.	460
602.0055	(D) REINFORCING STEEL FOR REINFORCED EARTH WALL ABUTMENT SHELF	L.S.	(9,000 L.B.)
670.1000	(D) SELECT GRANULAR BACKFILL FOR REINFORCED EARTH WALL	C.Y.	6,720
670.2001	(D) CONCRETE FACE PANELS FOR REINFORCED EARTH WALL	L.S.	(9,257 S.F.)

- NOTES
- FOR PRECAST CONC. COPIUG DETAIL, SEE SHEET NO. 6
 - ALL PANELS ARE TYPE "A" EXCEPT OTHERWISE NOTED.
 - DASH LINES ON SURFACE OF PANELS INDICATE NUMBER OF REINFORCING STRIPS PER PANEL.
 - FOR PANEL DETAILS, SEE SHEET NO. 4 & 5
 - FOR FOOTING STEP DETAILS, SEE SHEET NO. 3
 - FOR TYPICAL SECTION THRU ROADWAY, SEE HIGHWAY PLANS.
 - FOR ABUTMENT SEAT, SEE SHEET RE G.
 - MAX. BEARING PRESSURE UNDER ABUTMENT SEAT, 4.4 K.S.F.
 - MAX. BEARING PRESSURE AT TOE OF ABUT., 4.9 K.S.F.
- DESIGN STRESSES (PARAPET AND ABUTMENT SHELF)
- ULTIMATE COMPRESSIVE STRESS - $f'_c = 3,000$ P.S.I. (28 DAYS CONC.)
 - EXTREME FIBRE IN COMPRESSION $f_c = 1,200$ P.S.I.
 - REINFORCEMENT STEEL $f_s = 20,000$ P.S.I. (ASTM A615, GRADE 40)

CORNER ELEM.	HEIGHT
4-11/4"	4-10/8"
3	1

PANEL	TYPE	NO. T.S.	A	B	C	D	SP1	SP2	SP3	SP4	SP5	SP6	AL-1	AR-1	4'-4 1/2"	4'-5 3/8"
7'16"	P2	2	224	19	41	19	8	11	7	7	10	7	-	1	-	-
	P4	2	-	-	11	1	6	2	3	-	-	-	-	-	-	-
		3	14	-	-	-	-	-	-	-	-	-	-	-	2	2
		4	13	2	-	-	-	-	-	5	1	4	1	-	1	1

REINFORCING STRIP SCHEDULE	LENGTH	16'	18'	22'	30'
60 x 3 mm	-	-	-	206	-
80 x 3 mm	750	332	134	104	-
100 x 3 mm	-	-	-	286	-

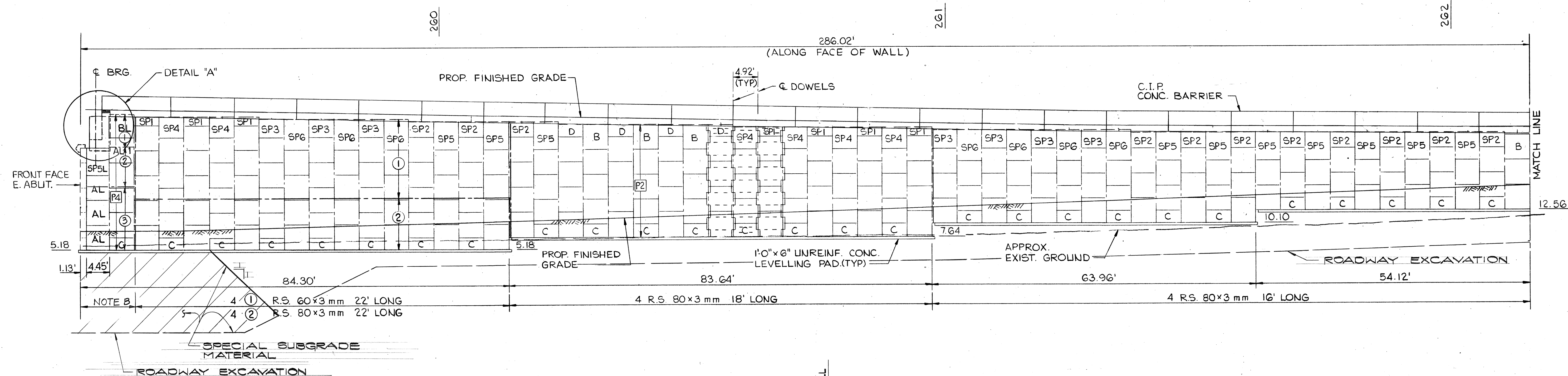
WALL SURFACE AREA = 9,167.1 SQ. FT.
129 LINEAL FEET OF PRECAST CONC COPIUG

3/23/78	ADDED NOTE 1, OTHER NOTES RENUMBERED. PRECAST CONC. COPING ADDED TO ABUTMENT
DATE	REVISION

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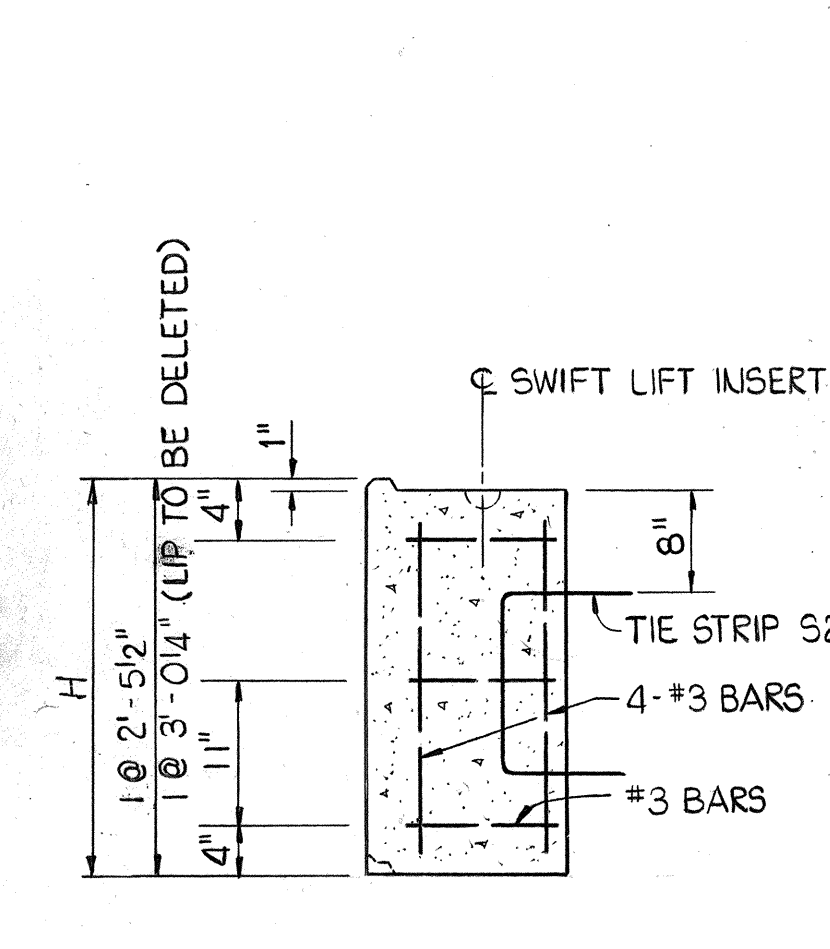
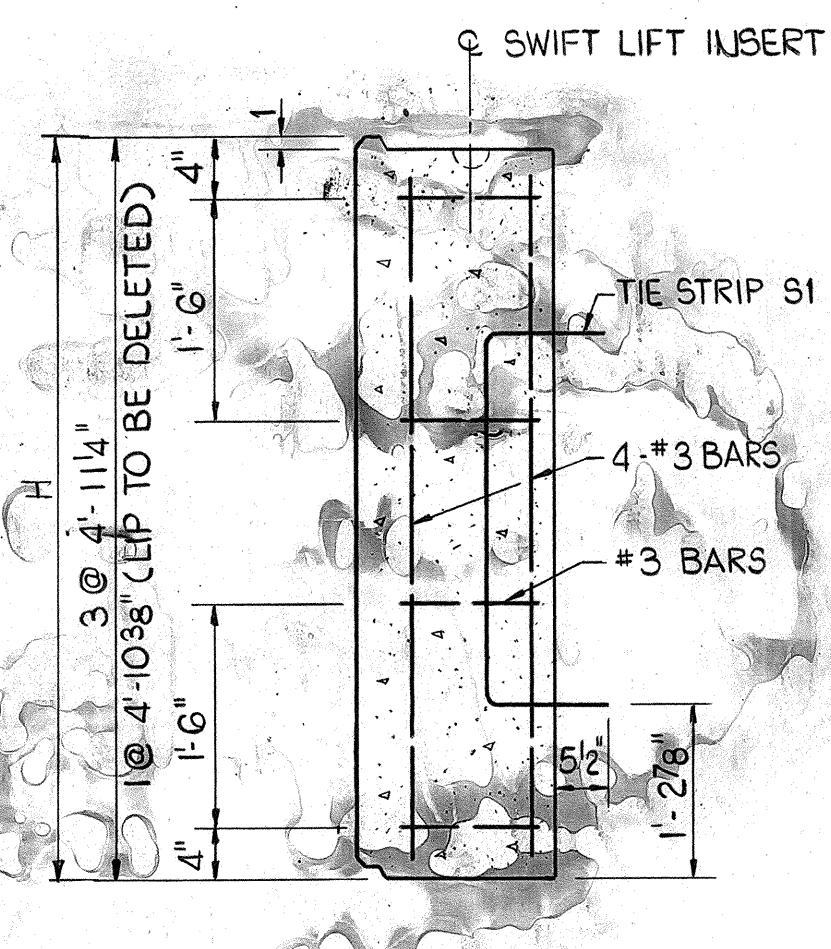
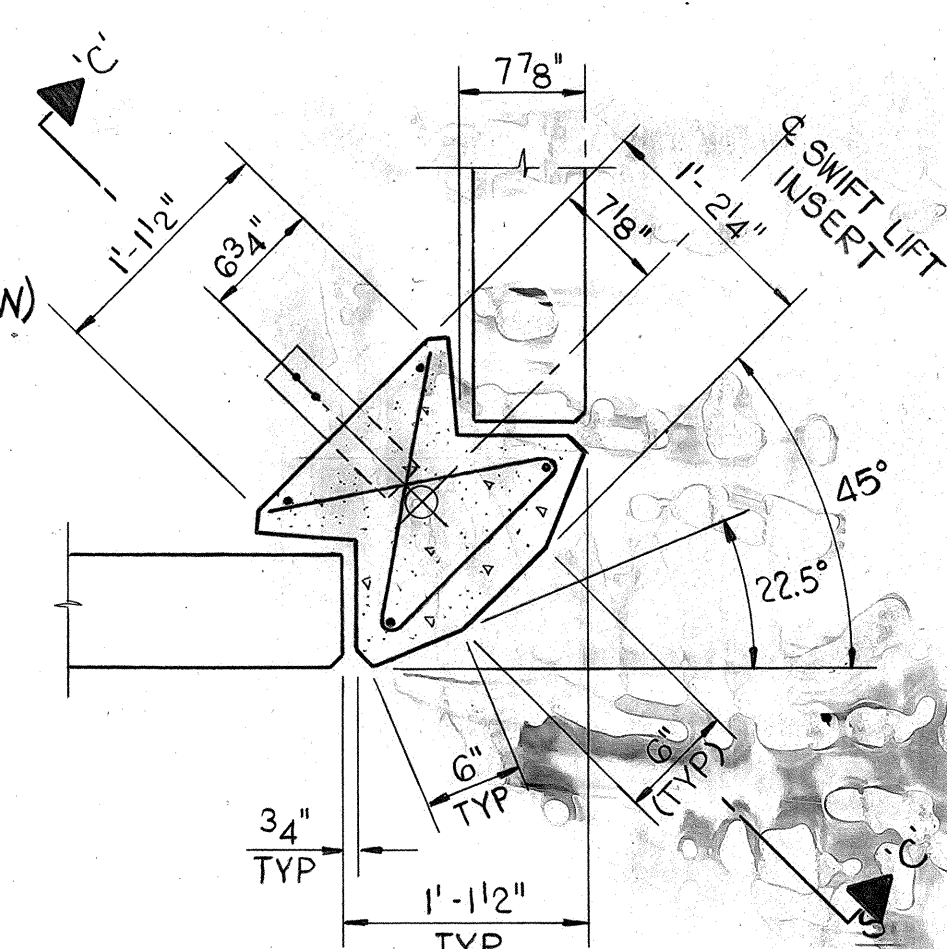
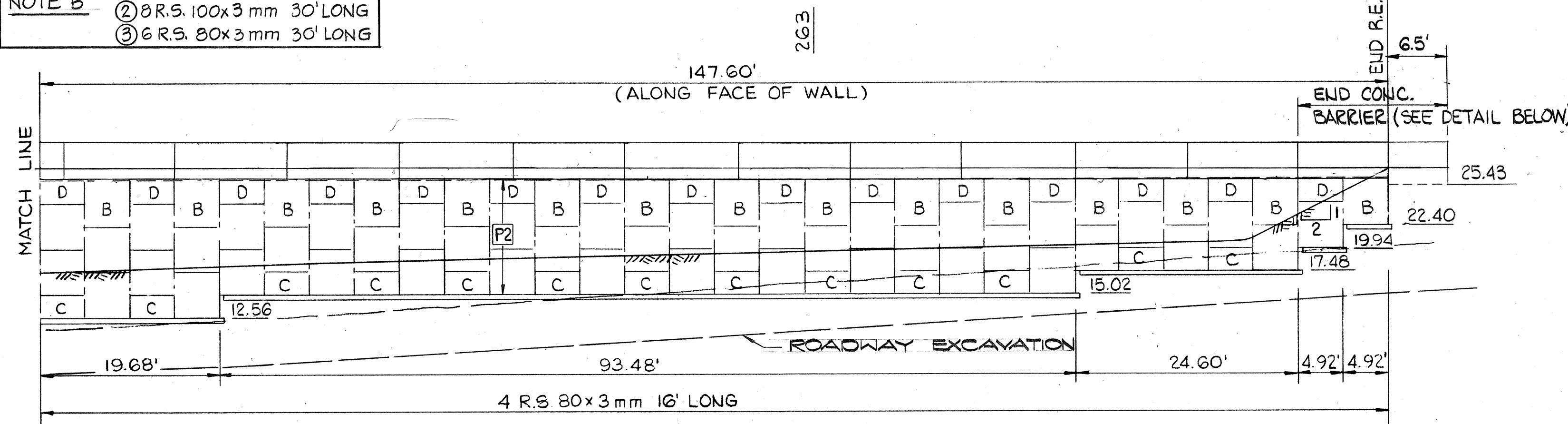
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
H-1 VIADUCT (E.B. & W.B.), RAMP A,
RAMP F & RAMP G
REINFORCED EARTH EAST ABUT. I
AT MIDDLE STREET
(ALTERNATIVE D)
KEEHI INTERCHANGE
* F.A.I. PROJ. NO. 1-HI-1 (131):17
SCALE: AS SHOWN
SHEET NO. RE10FREGSHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(13)17	1977	327	394



NOTE B

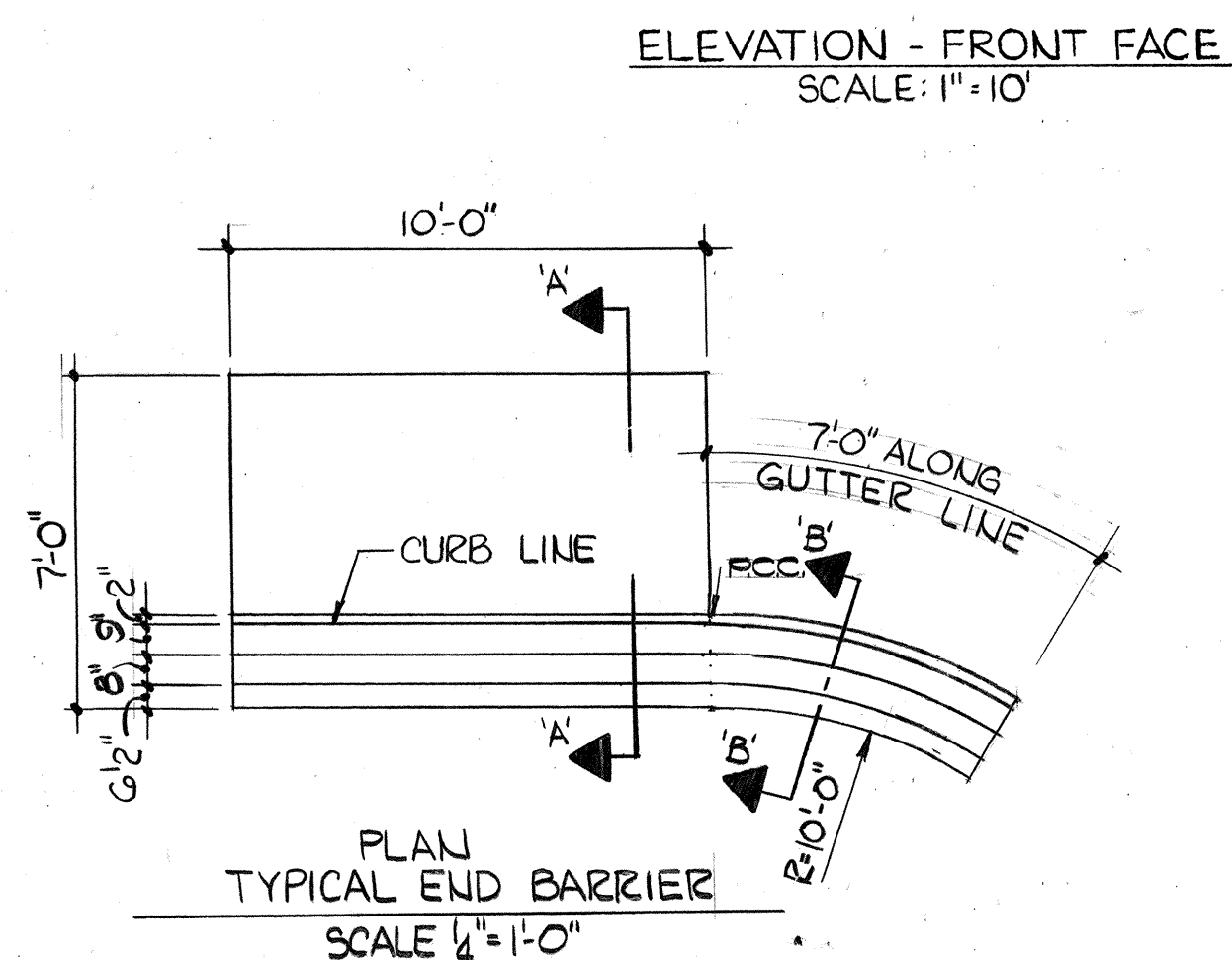
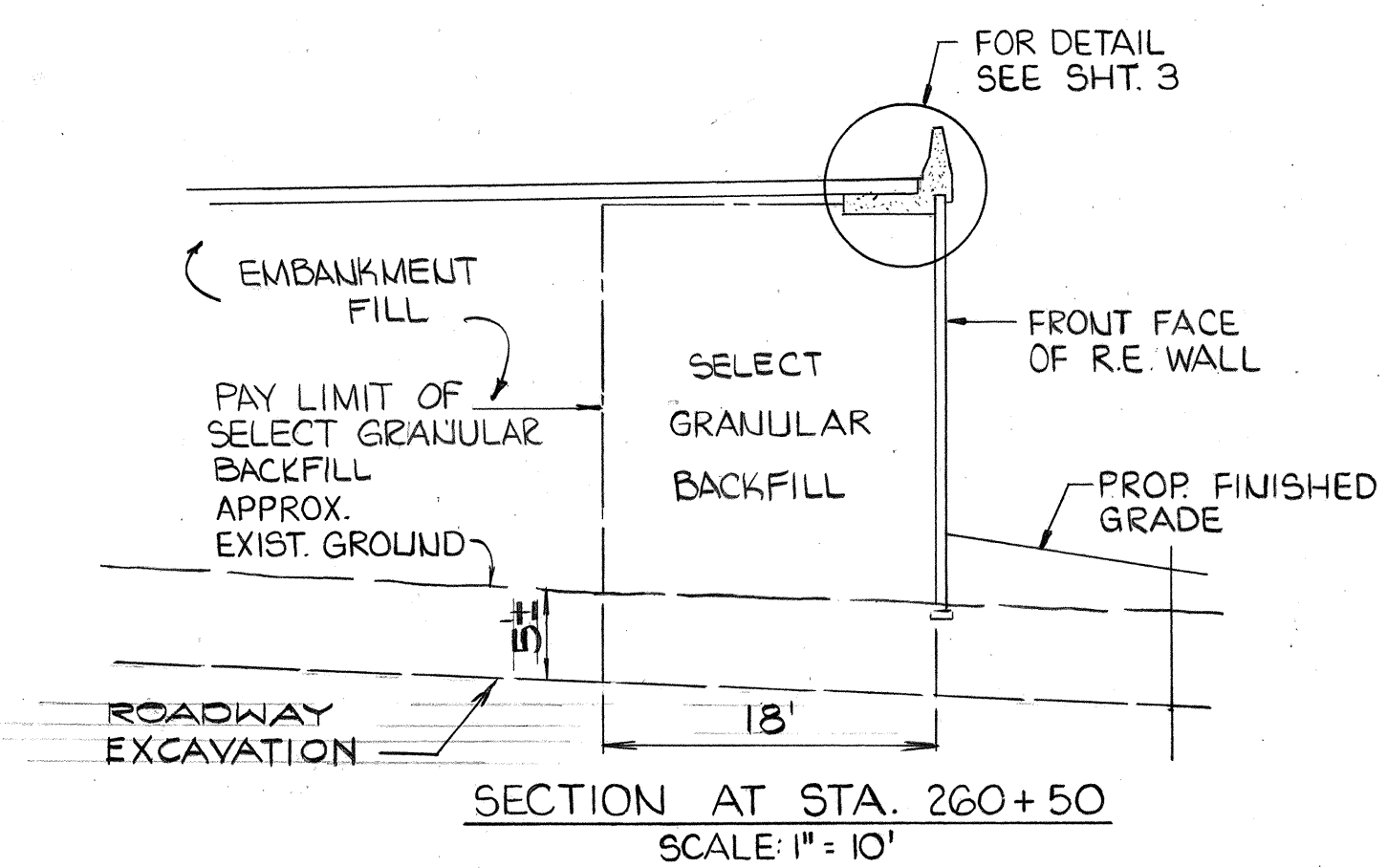
- ① 4 R.S. 80x3 mm 30' LONG
- ② 8 R.S. 100x3 mm 30' LONG
- ③ 6 R.S. 80x3 mm 30' LONG



SECTION CC
FULL HEIGHT CORNER ELEMENT
SCALE: 3/4" = 1'-0"

SECTION C-C
HALF HEIGHT CORNER ELEMENT
SCALE: 3/4" = 1'-0"

NOTE C - CORNER ELEMENT SURFACE AREA = 1.5 x H



NOTE 'A'
FOR CONNECTION OF GUARD RAIL TO CONC. RETE BARRIER SEE ROADWAY PLANS.

CORNER ELEMENT
SCALE: 1" = 1'-0"

- NOTES:**
1. MAX. BEARING PRESSURE AT TOE OF WALL 4.3 K.S.F.
 2. FOR OTHER NOTES SEE SHEET NO. 1
 3. FOR SECTION A-A SEE TYPICAL SECTION THRU CONC. BARRIER SHT. 3 OF G.
 4. FOR SECTION B-B SEE END BARRIER SHT. 3 OF G.
 5. FOR FINISHED GRADE AND TOP OF BARRIER ELEVATIONS SEE CONCRETE WALL ALTERNATE PLANS.

DATE	REVISION
3/23/78	ADDED NOTE B, REVISED R.S. SIZES. ADDED NOTE C, DEFINED CORNER SURFACE AREA

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
H-1 VIADUCT (E.B. & W.B.), RAMP A,
RAMP F & RAMP G

**REINFORCED EARTH NORTH WALL
SECTION 8 & DETAILS
(ALTERNATIVE D)**
KEEHI INTERCHANGE
F.A.I. PROJ. NO. I-H-1 (131): 17

SCALE: AS SHOWN DATE: 10-27-77
SHEET NO. 22 OF 22 SHEETS

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12.3' (TYP)

1/2" JOINT

TOP OF CONC. BARRIER.

PROP. FINISHED GRADE.

D

B

D

B

SP1

SP4

SP1

A

A

A

A

A

Technical drawing of a bridge pier cross-section. The drawing shows a T-shaped pier with a wide base and a narrower top section. Key dimensions and reinforcement details are labeled:

- Top Section:**
 - Width: 1'-11 1/2"
 - Height: 2'-8 1/2"
 - Reinforcement: #5 @ 12" O/C, 8 - #4 BARS AS SHOWN
 - Radius: R 10"
- Base Section:**
 - Width: 6'-0"
 - Height: 2'-8 1/2"
 - Reinforcement: #5 @ 12" O/C, 12 - #4 BARS AS SHOWN
 - Radius: R 10"
- Other Details:**
 - TOP OF ROADWAY
 - 2" x 4" KEY
 - #5 @ 12" O/C
 - 3/4" x 4" CORK
 - FRONT FACE OF R.E. WALL
 - Add #5 @ 12" (Staggered) Re-Cales.

ϕ DOWEL
 A
 B" (TYP)
 2'-5 1/2"
 1'-0" x 0" UNREINF. CONC. LEVELING PAD (TYP)

[illegible]

Elevation drawing of the front face of a building. The drawing shows a multi-level structure with various dimensions and labels. Key features include:

- Dimensions:**
 - Top horizontal dimension: 4.45'
 - Vertical dimension on the left: 32.66
 - Horizontal dimension below 32.66: 1.0'
 - Horizontal dimension below 1.0': 2.5'
 - Horizontal dimension below 2.5': 25.42
 - Horizontal dimension below 25.42: 4.75'
 - Bottom horizontal dimensions: 1.13', 4.45', 4.92'
- Labels:**
 - BRG. (Brick)
 - C.I.P. CONC. BARRIER (Cast-In-Place Concrete Barrier)
 - SP1 (Sill Plate 1)
 - BL (Block)
 - AL-I (Aluminum Inset)
 - SP5L (Sill Plate 5 Left)
 - AL (Aluminum)
 - A (Area)
- Other:**
 - FRONT FACE REABUT. (Front Face Reabutment)

Diagram illustrating the cross-section of a bridge structure, showing various components and dimensions:

- Dimensions:**
 - Top width: 4.45'
 - Bottom width: 4.92', 4.45', 1.13'
 - Vertical dimension on the left: 17.48
 - Vertical dimension on the right: 22.34
 - Horizontal dimension from centerline to the front face: 2.5' + 1.0' = 3.5'
 - Horizontal dimension from the front face to the centerline: 4.75'
- Components and Labels:**
 - SP4R (Span 4 Roadway)
 - AR-1 (Approach Roadway 1)
 - C (Centerline)
 - BR (Bridge Roadway)
 - FRONT FACE REABUT. (Front Face Reabutment)
 - TOP OF ROADWAY
 - Q BRG. (Centerline Bridge Roadway)
- Other Labels:**
 - 29.81 (Vertical dimension from the top of the roadway to the centerline)

Technical drawing of a bridge pier cross-section. The drawing shows a rectangular pier with a wider top section. Dimensions are given in feet and inches. The top width is 1'-11 1/2". The top section has a height of 2" and a width of 8" and 6 1/2". The main body of the pier has a height of 2'-8 1/2" and a width of 2'-10". The base of the pier has a height of 2'-6" and a width of 2'-2". The total height of the pier is 5'-2 1/2". The drawing also shows reinforcement details: #5 bars at 12" o/c and #4 bars as shown. The drawing is labeled with dimensions and reinforcement details.

NOTES

1. PANELS "BR" AND "SP4R" AND SP5R SHALL BE BLOCKED - OUT SIMILAR TO PANEL "AR".
2. PANELS "AL" "BL" AND "SP5L" SIMILAR TO PANEL AR EXCEPT THAT BLOCKED - OUT PORTION IS LOCATED ON THE OPPOSITE SIDE.
3. FOR DETAILS NOT SHOWN, SEE STANDARD DWG. NO. SC-1 AND SPECIAL DWG. NO. SC-2
4. STIRRUP T₃ - LENGTH AS REQ'D. BY PANEL WIDTH.

Technical drawing of a rectangular structure, likely a component of a machine or a building foundation. The drawing shows a top-down view with dimensions and labels.

Dimensions:

- Overall width: $4' - 5\frac{3}{8}"$
- Overall height: $4' - 11\frac{1}{4}"$
- Internal width (between vertical lines): $2' - 4\frac{3}{4}"$
- Internal height (between horizontal lines): $1' - 2\frac{3}{4}"$
- Offset from top edge to internal width line: $1' - 3\frac{3}{4}"$
- Offset from right edge to internal width line: $10\frac{1}{2}"$
- Offset from bottom edge to internal height line: $1' - 2\frac{3}{4}"$
- Offset from right edge to internal height line: $2' - 4\frac{3}{4}"$

Labels:

- T3: Label for the top horizontal line.
- T1: Label for the bottom horizontal line.

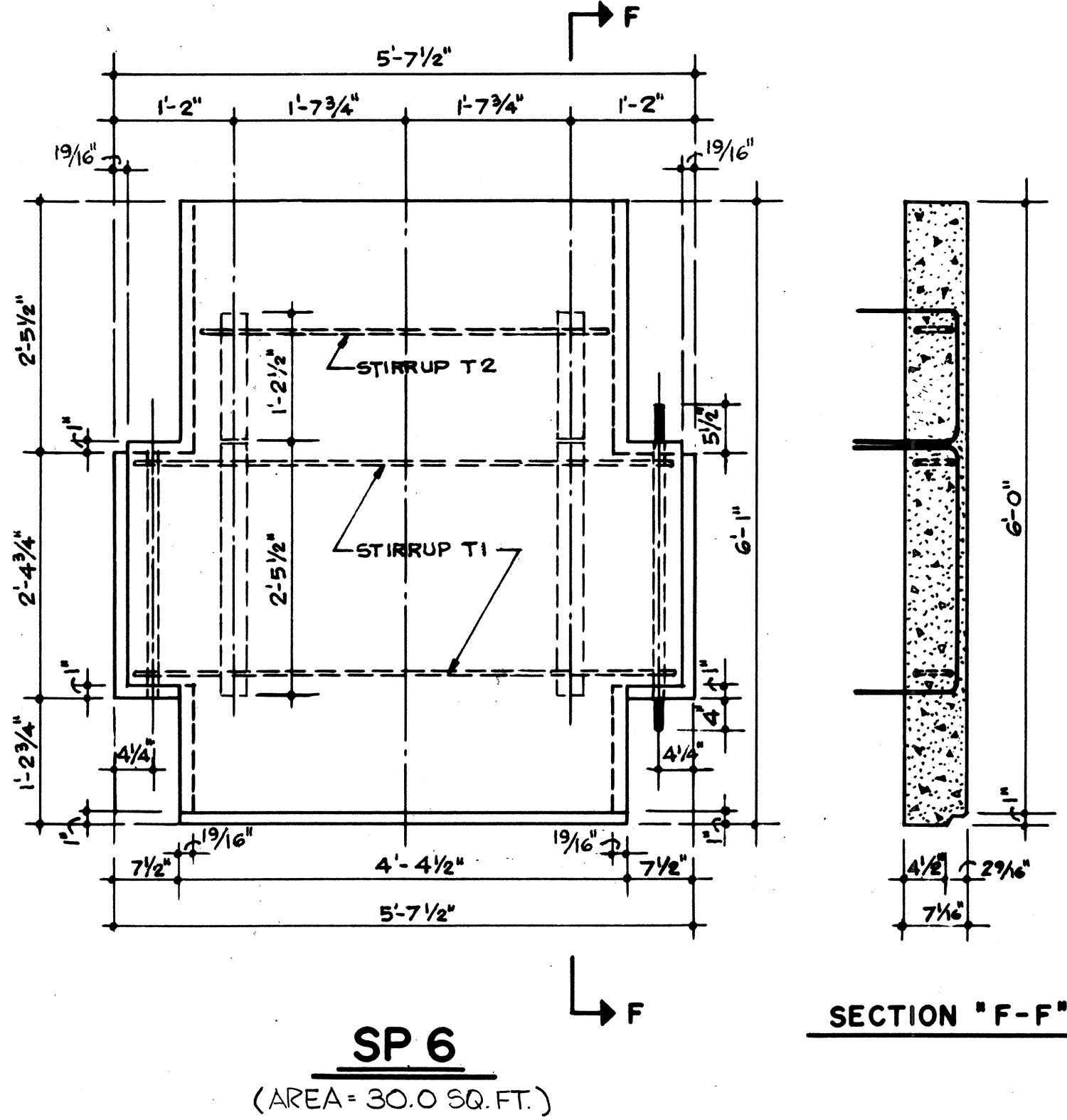
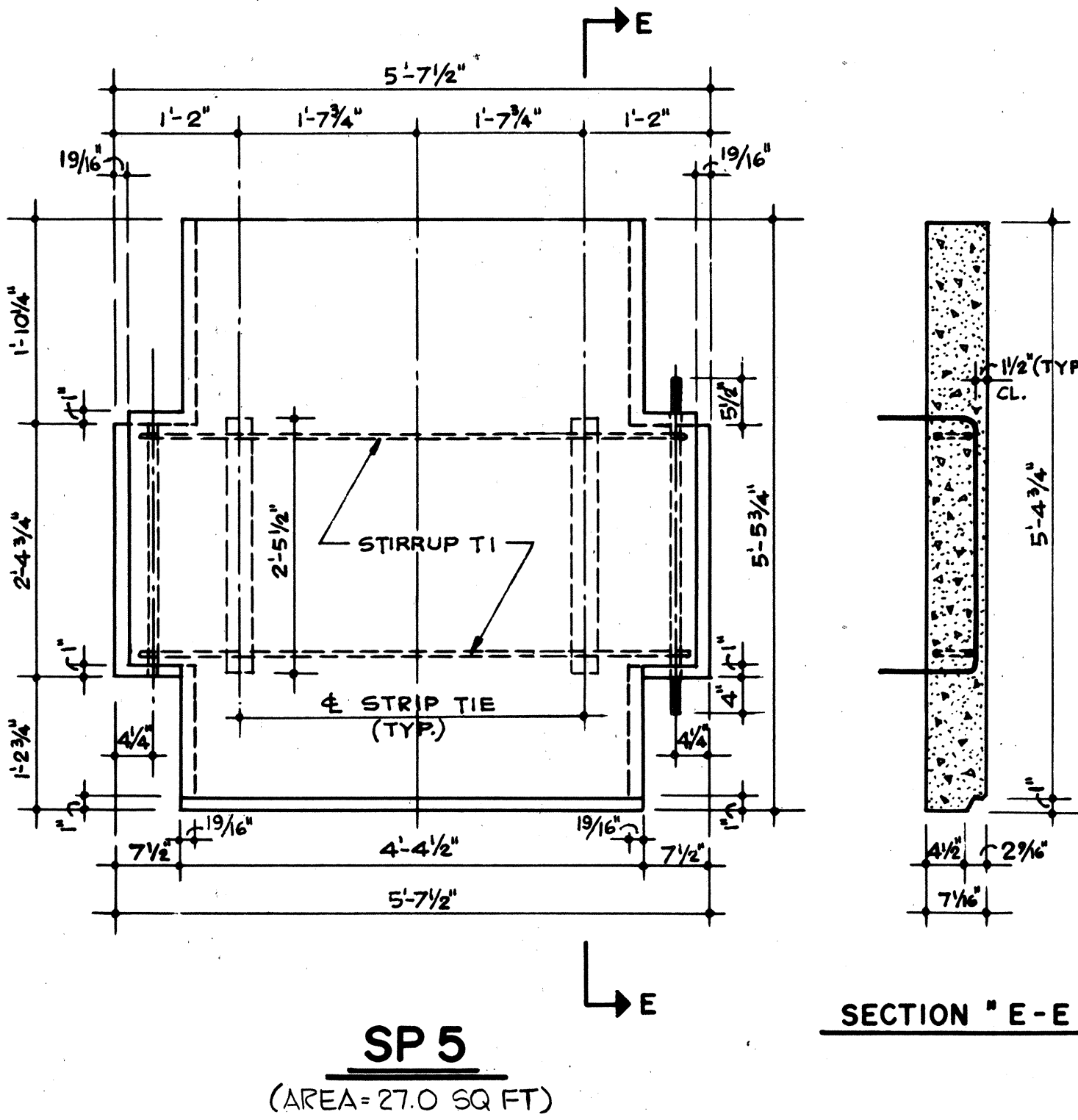
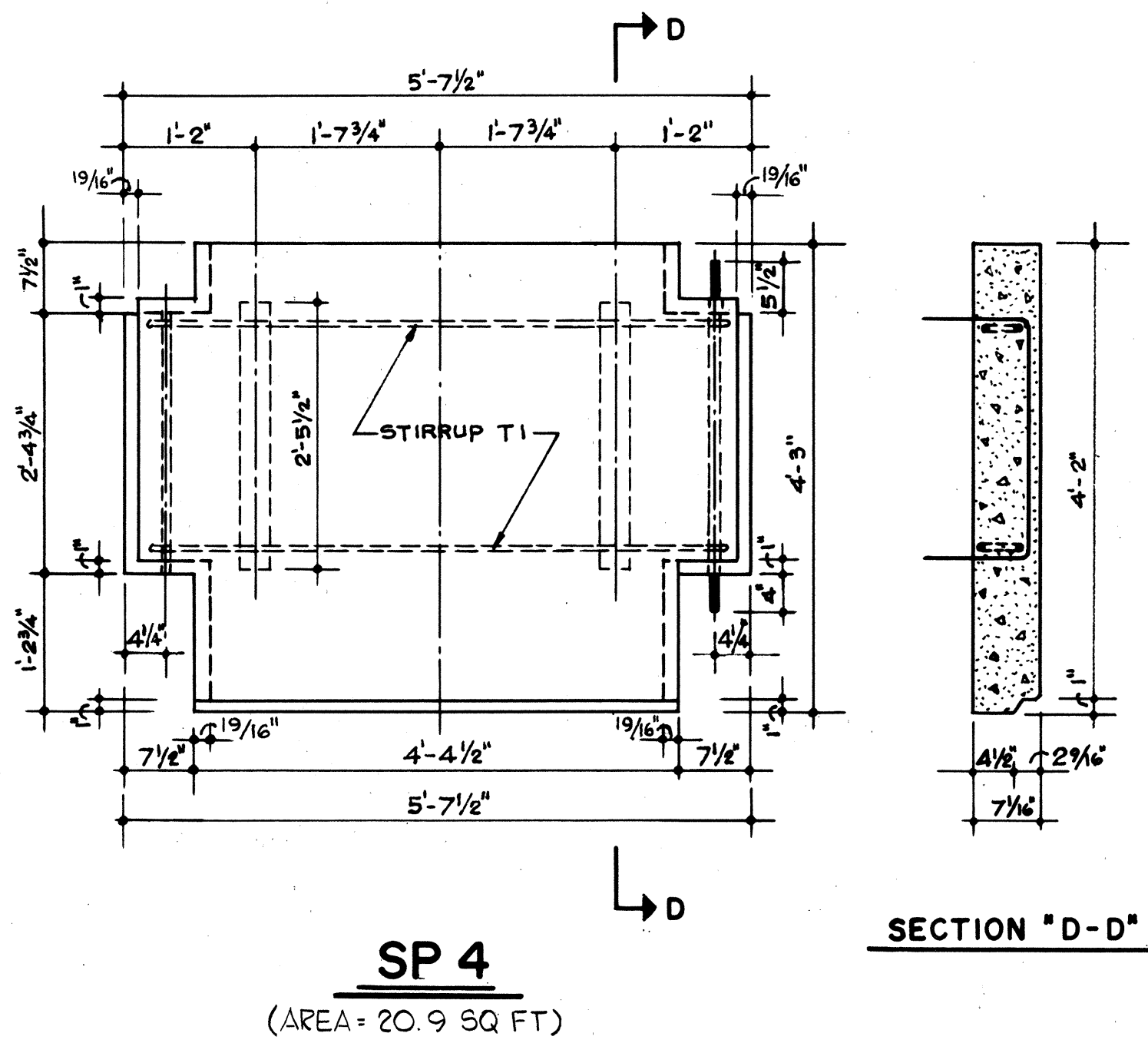
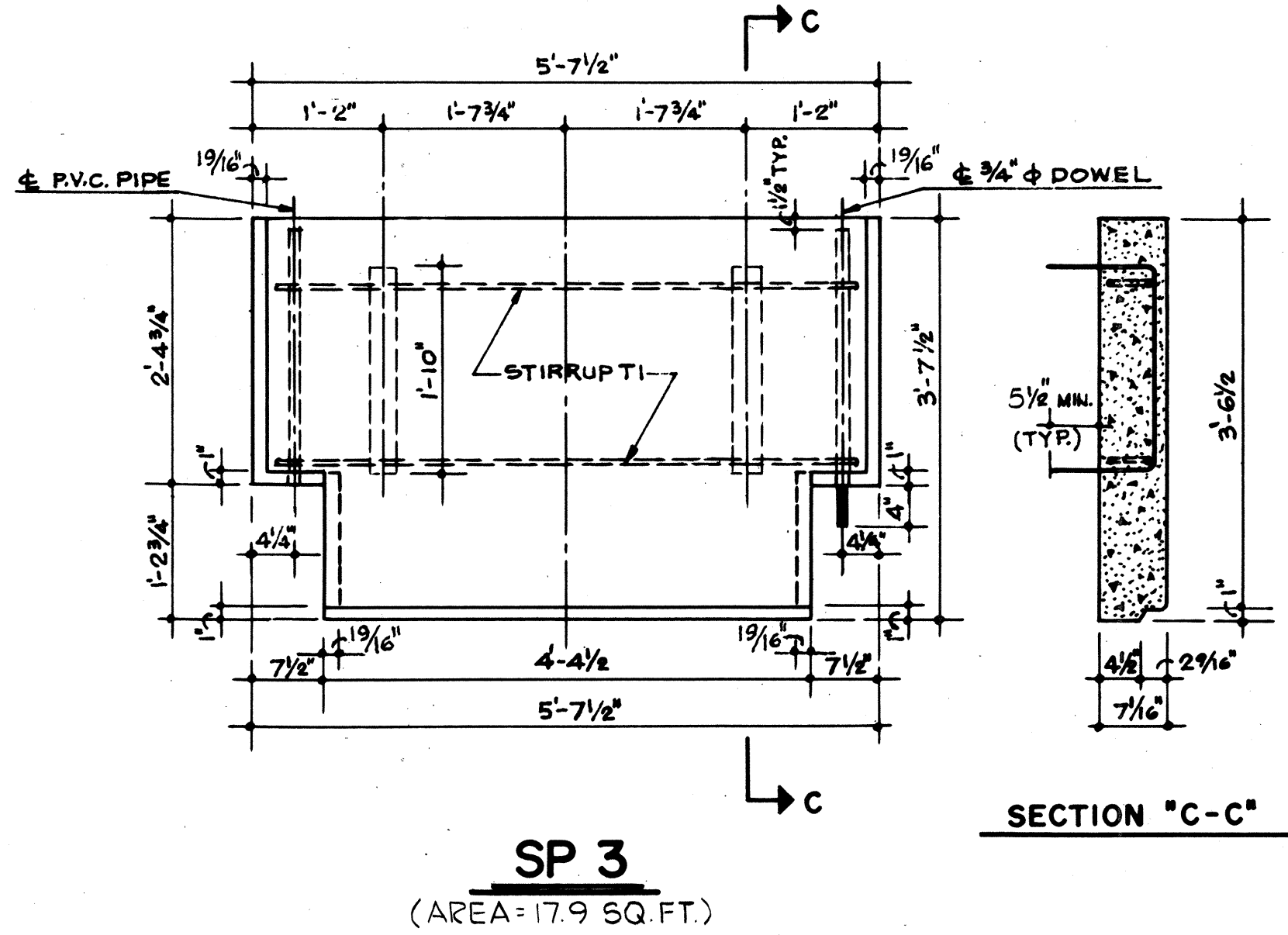
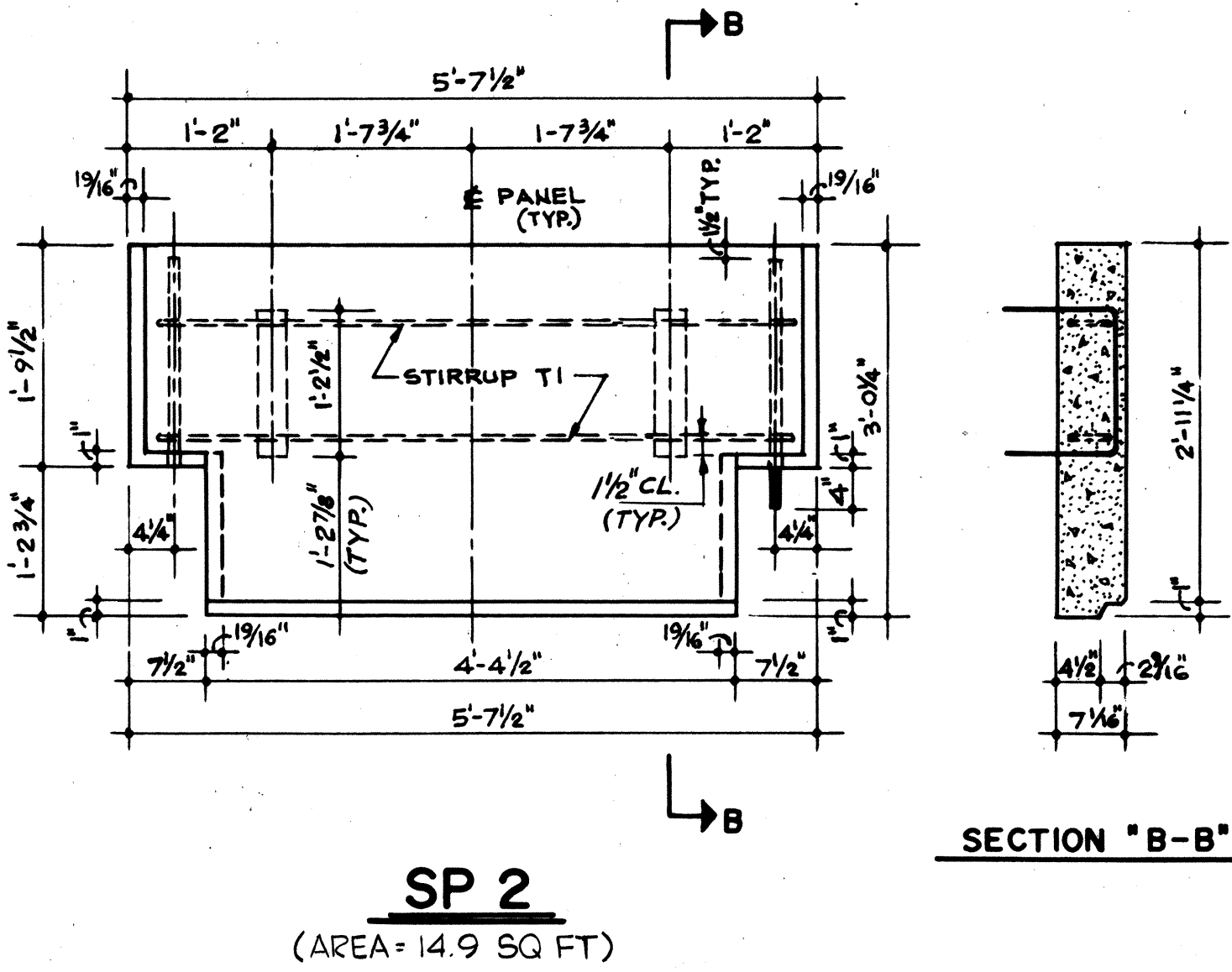
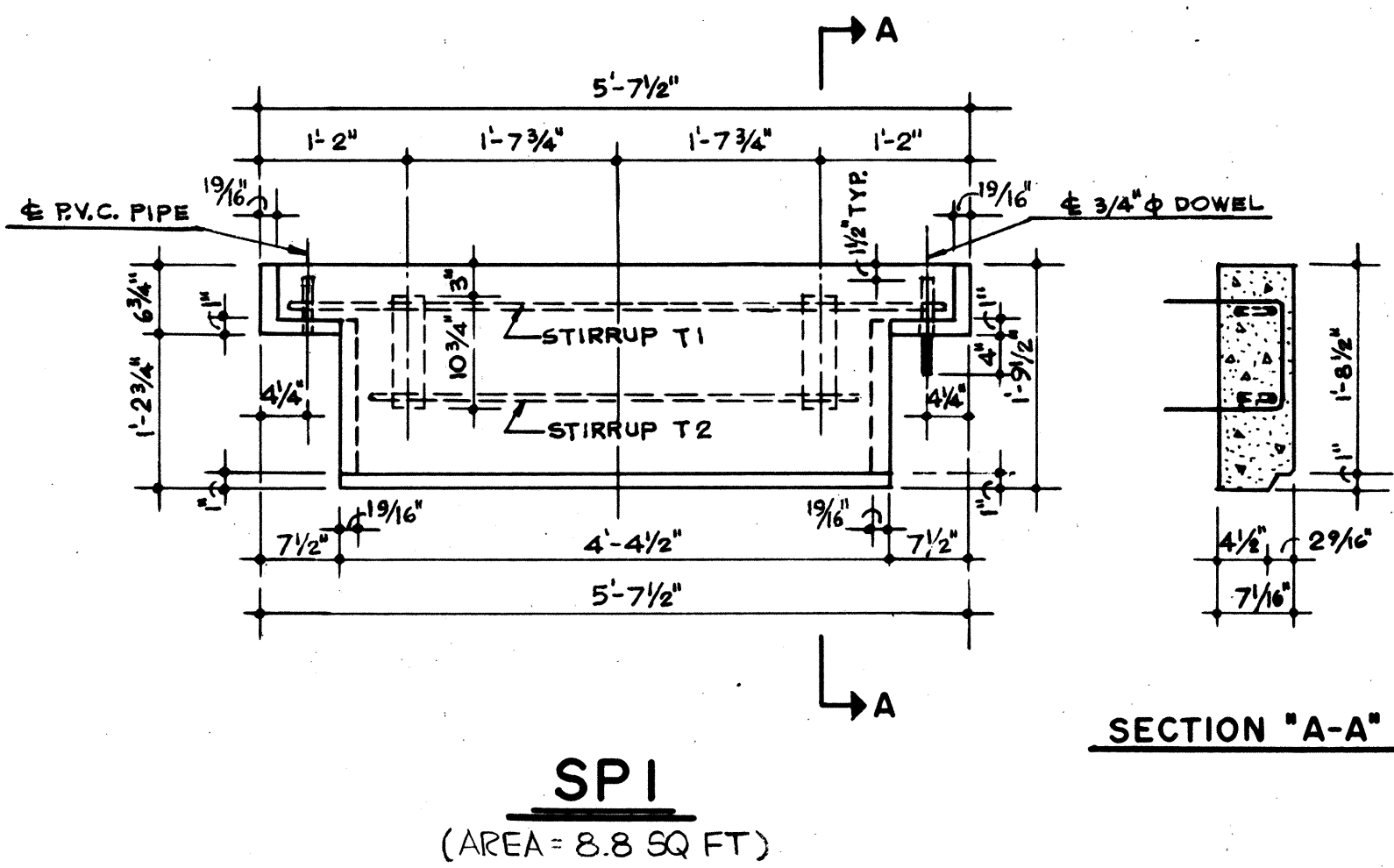
The drawing includes a hatched area on the right side, indicating a specific material or section.

This drawing contains information proprietary to The Reinforced Earth Company, and is being furnished for the use of HOWARD GIFT OF TAIKORP, INC. only in connection with this project, and the information contained herein is not to be transmitted to any other organization unless specifically authorized in writing by The Reinforced Earth Company.

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SHEET No. 3 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H-1(131):17	1977	330	394



DOWEL AND TIE STRIP SCHEDULE		
PANEL TYPE	LENGTH OF DOWEL	LENGTH OF TIE STRIP
SP1	0'-9 1/4"	2'-8"
SP2	2'-0"	2'-11 3/4"
SP3	2'-7 1/4"	3'-7 1/4"
SP4	3'-2 1/4"	4'-2 3/4"
SP5	3'-2 1/4"	4'-2 3/4"
SP6	3'-2 1/4"	4'-2 3/4"

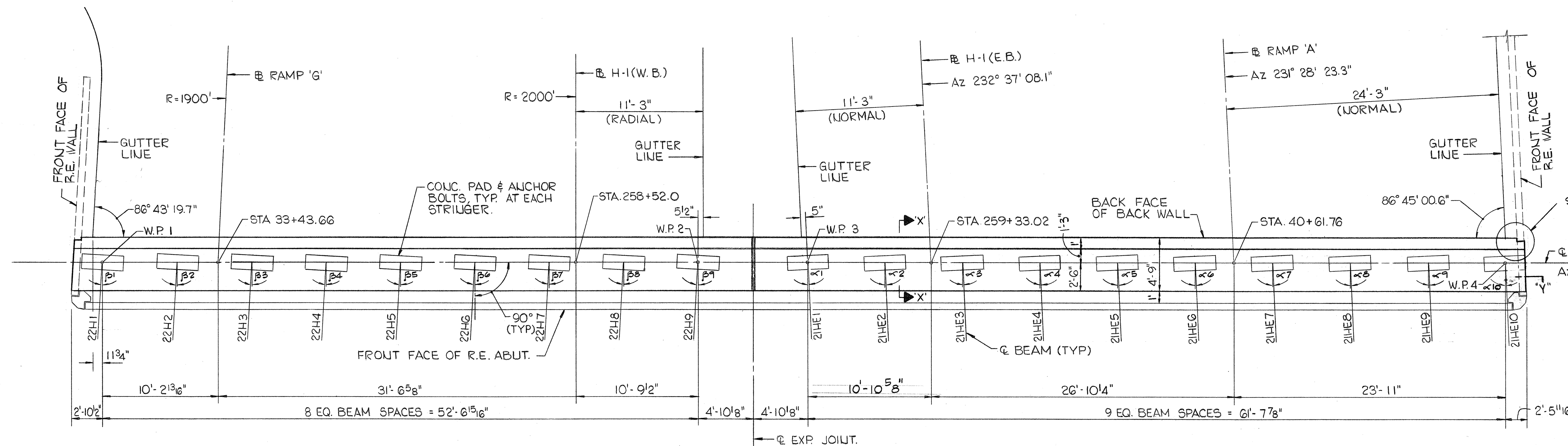
SPECIAL PANEL DETAILS

- NOTES:
- FOR DETAILS NOT SHOWN, SEE DWG. NO. S-C1
 - FOR LOCATION OF SWIFT LIFT INSERTS SEE DWG. NO. SC-1

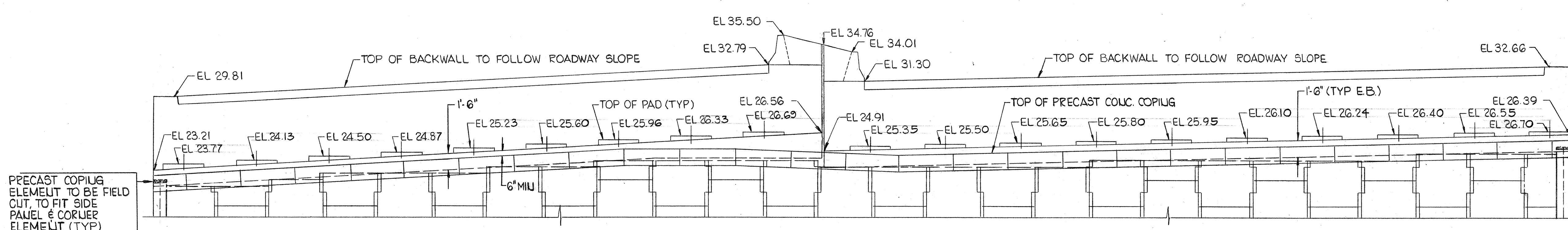
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The Reinforced Earth Company 1414 22 ND Street NW Washington DC 20007 Telephone: 202 / 525-5434	
Structure Location Date Drawn by Checked by Approved by	REINFORCED EARTH WALL (ALTERNATIVE D) H-1 VIADUCT (E.B. & W.B.) RAMP 'A', RAMP 'F' & RAMP 'G' KEEHI INTERCHANGE F.A.I. PROJ. NO. 1-H-1(131):17 HAWAII DEPT. OF TRANSPORTATION CONTRACT NO. 328 DRAWING NO. S-C2 SCALE 3/4" = 1'-0"
REV. NO. DATE DESCRIPTION	SHT. NO. RES. OF REG. SHTS.

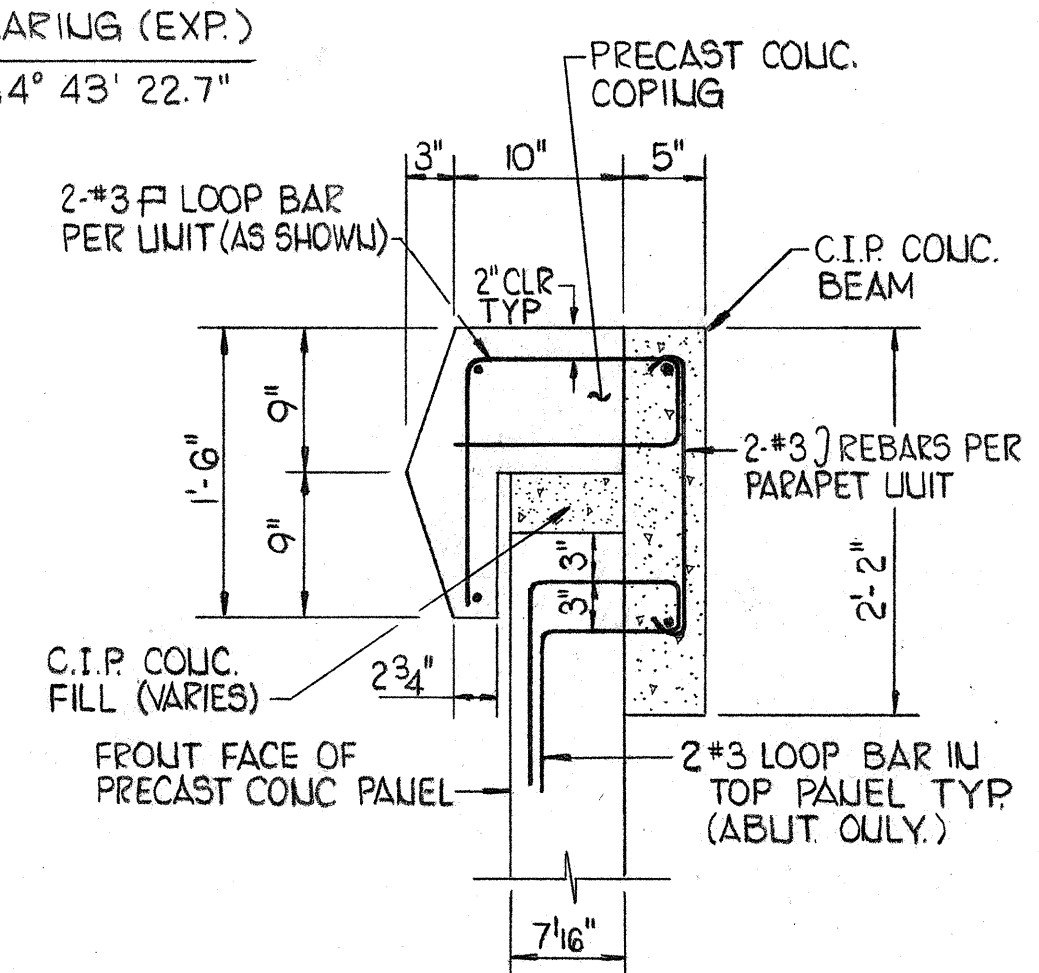
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H-1(13)17	1977	331	394



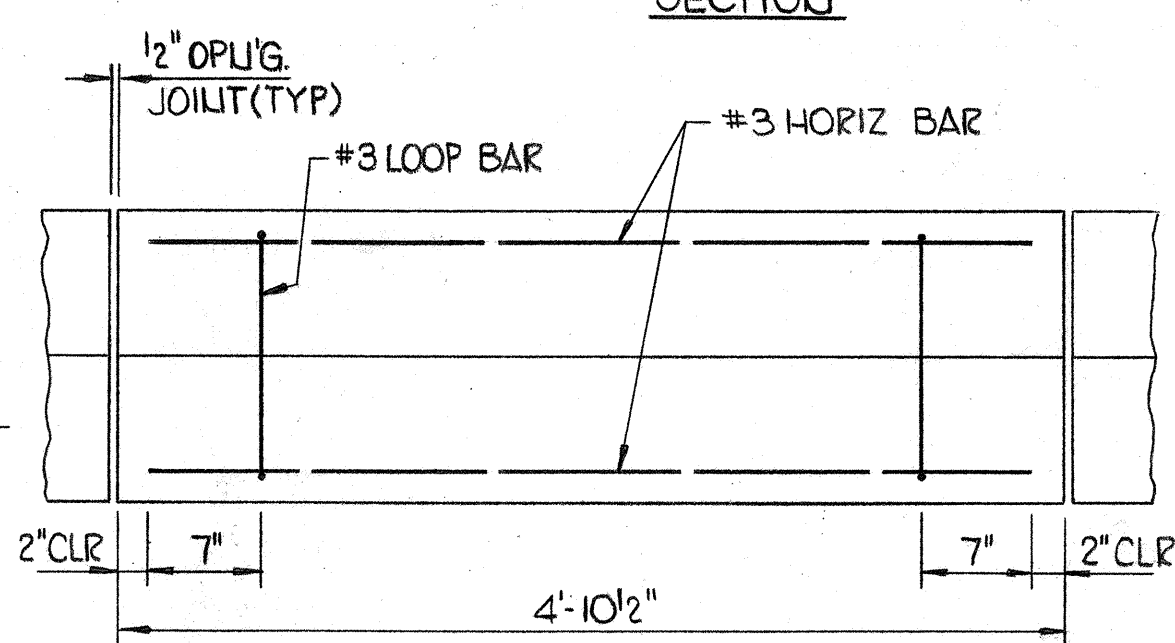
PLAN - EAST ABUTMENT



PARTIAL ELEVATION
SCALE 3/16" = 1'-0"



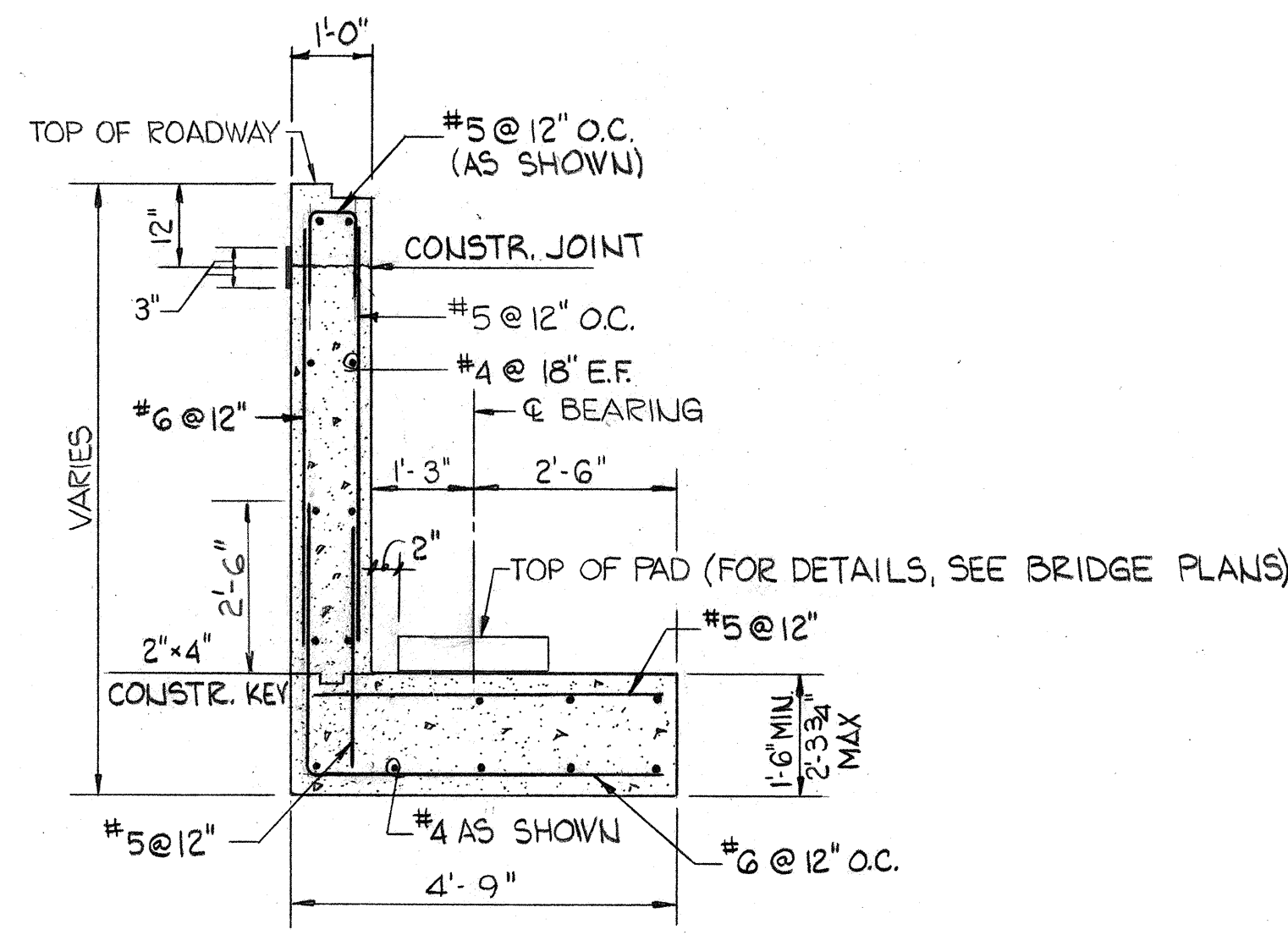
SECTION



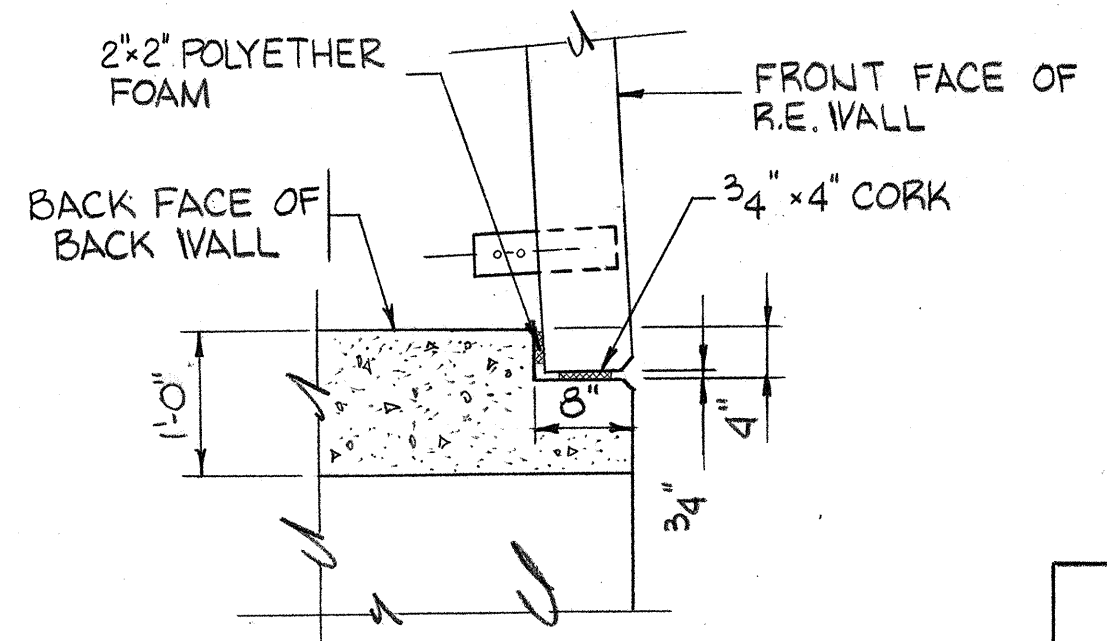
ELEVATION

PRECAST COPING DETAIL
SCALE: 1" = 1'-0"

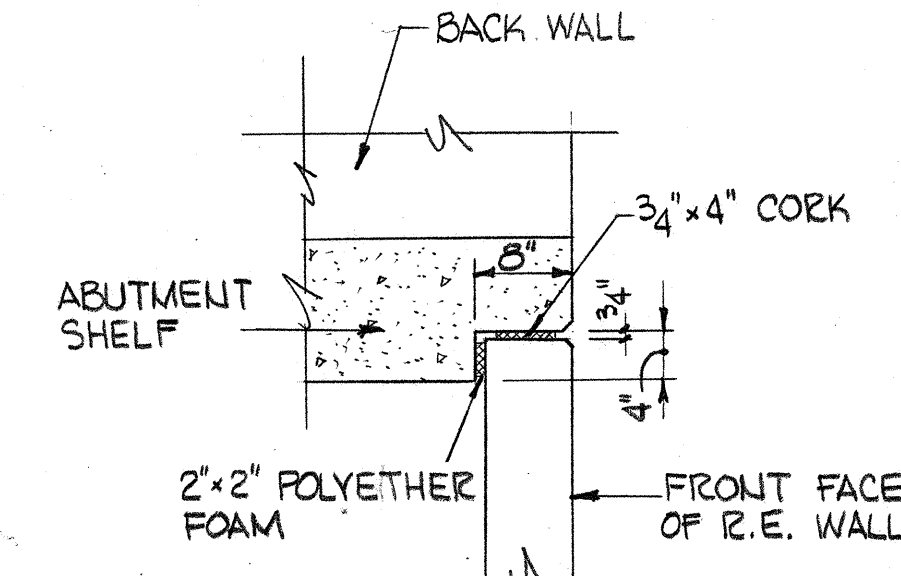
- NOTES:
- 1) FOR DETAILS RELATED TO THE BRIDGE STRUCTURE SEE BRIDGE PLANS.
 - 2) FOR ANGLES "L" & "B" SEE BRIDGE PLANS.
 - 3) PAYMENT FOR CIP CONC. BEAM AND FILL SUPPORTING PRECAST CONC. COPING WILL BE MADE UNDER "CONCRETE IN REINFORCED EARTH WALL ABUTMENT SHELF".



SECTION X-X
SCALE 1/2" = 1'-0"



DETAIL 'A'
BOTH ENDS SIMILAR
SCALE 3/4" = 1'-0"



SECTION 'Y'
SCALE 3/4" = 1'-0"

DATE	REVISION
3/23/78	ADDED PRECAST COPING DETAIL & SECTION. ADDED NOTE 3. ADDED COPING TO ABUTMENT. REVISED SECTION X-X.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
H-1 VIADUCT (E.B. & W.B.), RAMP A,
RAMP F & RAMP G
REINFORCED EARTH EAST ABUT. I
AT MIDDLE STREET
ALTERNATIVE D
KEEHI INTERCHANGE
F.A.I. PROJ. NO. H-1 (13) 17
SCALE: AS SHOWN DATE:
SHEET NO. 331 OF 394 SHEETS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
NO.	