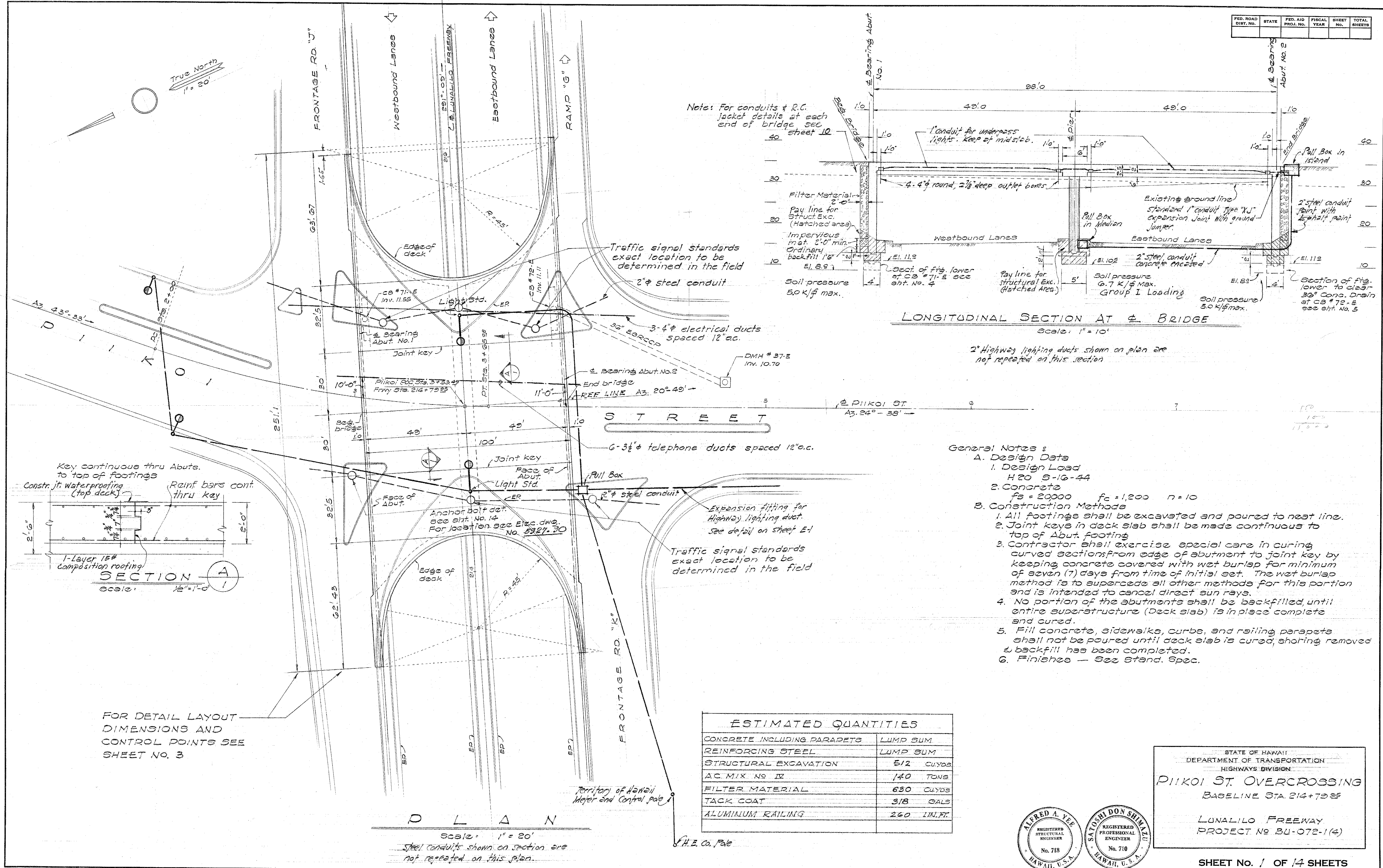


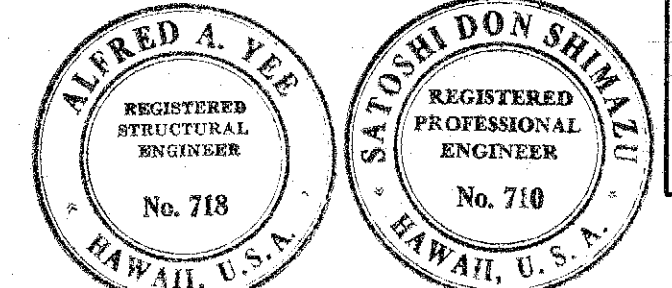
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				1	14



- General Notes:**
- Design Data**
 - Design Load: H20 S-16-44
 - Concrete: $f_c = 20000$, $f_s = 1,200$, $n = 10$
 - Construction Methods**
 - All footings shall be excavated and poured to neat line.
 - Joint keys in deck slab shall be made continuous to top of abut. footing.
 - Contractor shall exercise special care in curing curved sections from edge of abutment to joint key by keeping concrete covered with wet burlap for minimum of seven (7) days from time of initial set. The wet burlap method is to supersede all other methods for this portion and is intended to cancel direct sun rays.
 - No portion of the abutments shall be backfilled until entire superstructure (Deck slab) is in place complete and cured.
 - Fill concrete, sidewalks, curbs, and railing parapets shall not be poured until deck slab is cured, shoring removed & backfill has been completed.
 - Finishes — See Stand. Spec.

ESTIMATED QUANTITIES	
CONCRETE INCLUDING PARAPETS	LUMP SUM
REINFORCING STEEL	LUMP SUM
STRUCTURAL EXCAVATION	512 CU.YDS
A.C. MIX NO. IV	140 TONS
FILTER MATERIAL	630 CU.YDS
TACK COAT	318 GALS
ALUMINUM RAILING	260 LIN.FT.

STATE OF HAWAII
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BASELINE STA. 214+79.25
LUNALILO FREEWAY
PROJECT NO. BU-072-1(4)



SHEET NO. 1 OF 14 SHEETS

5927.189 (184)

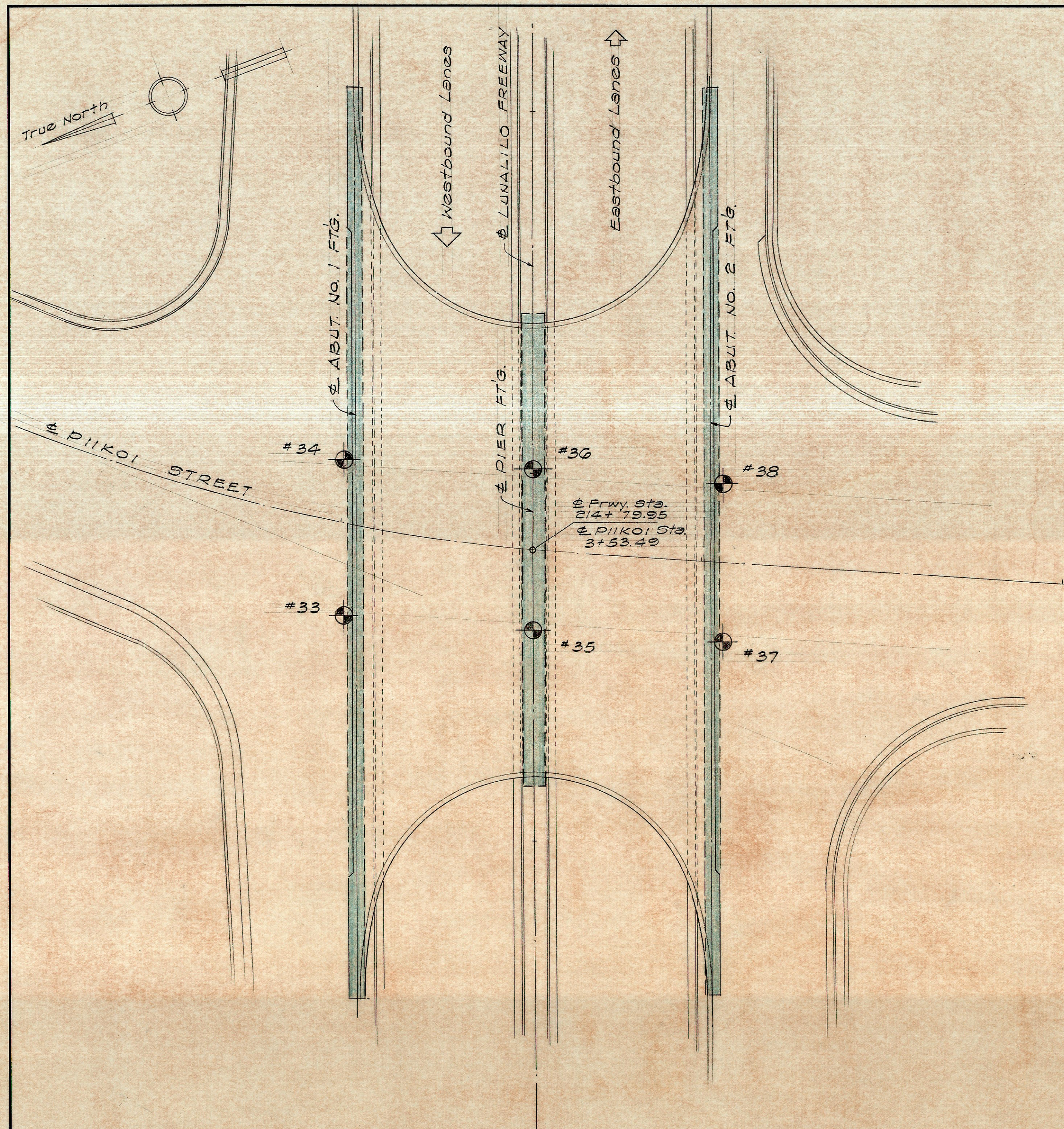
DATE	_____
SURVEY PLOTTED BY	_____
ORIGINAL PLAN	_____
DRAWN BY	_____
NOTES CHECKED BY	_____
QUANTITIES CHECKED BY	_____
NO.	_____

FOR DETAIL LAYOUT
DIMENSIONS AND
CONTROL POINTS SEE
SHEET NO. 3

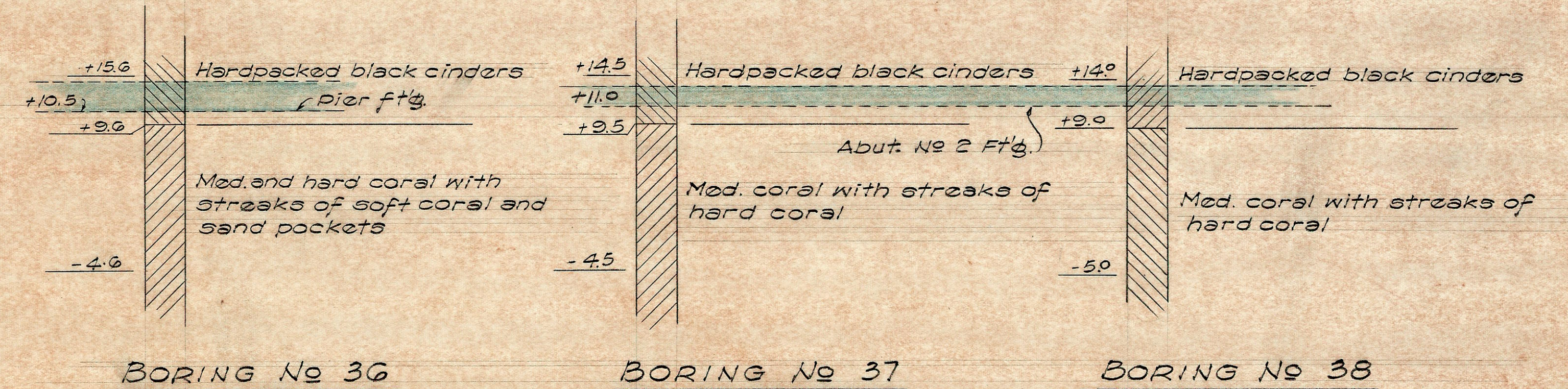
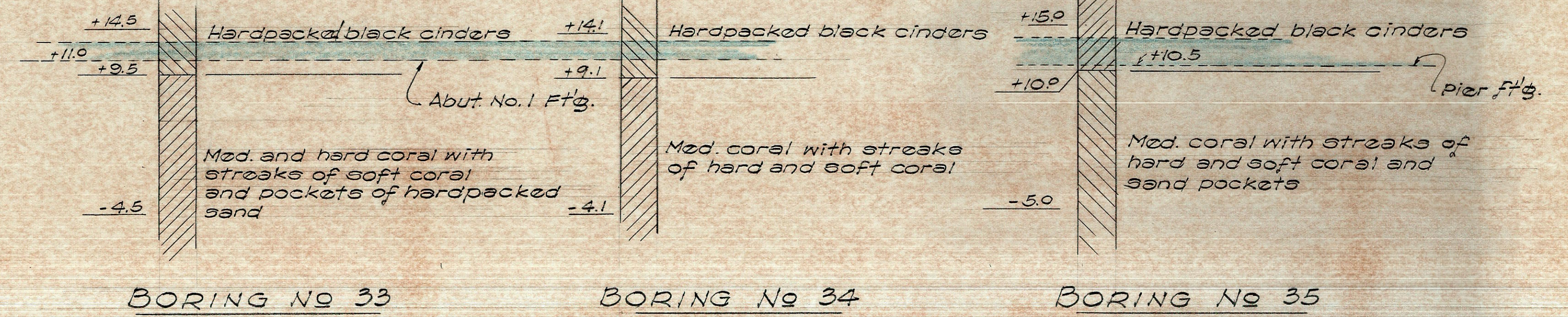
PLAN
Scale: 1" = 20'
Steel conduits shown on section are
not repeated on this plan.

J.H.E. Co. Inc.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS



BORING LOCATION PLAN
Scale: 1" = 20'

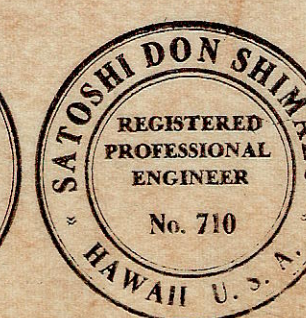
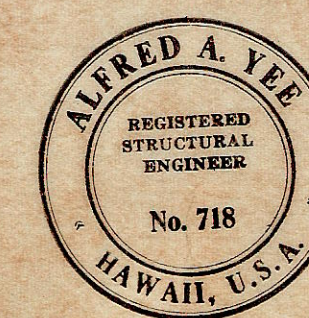


BORING DATA
Scale: 1" = 10'

SURVEY PLOTTED BY	DATE
ORIGINAL PLAN	
DRAWN BY	
CHECKED BY	
NOTE BOOK NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PIIKOI ST OVERCROSSING
BASELINE STA. 214+79.95

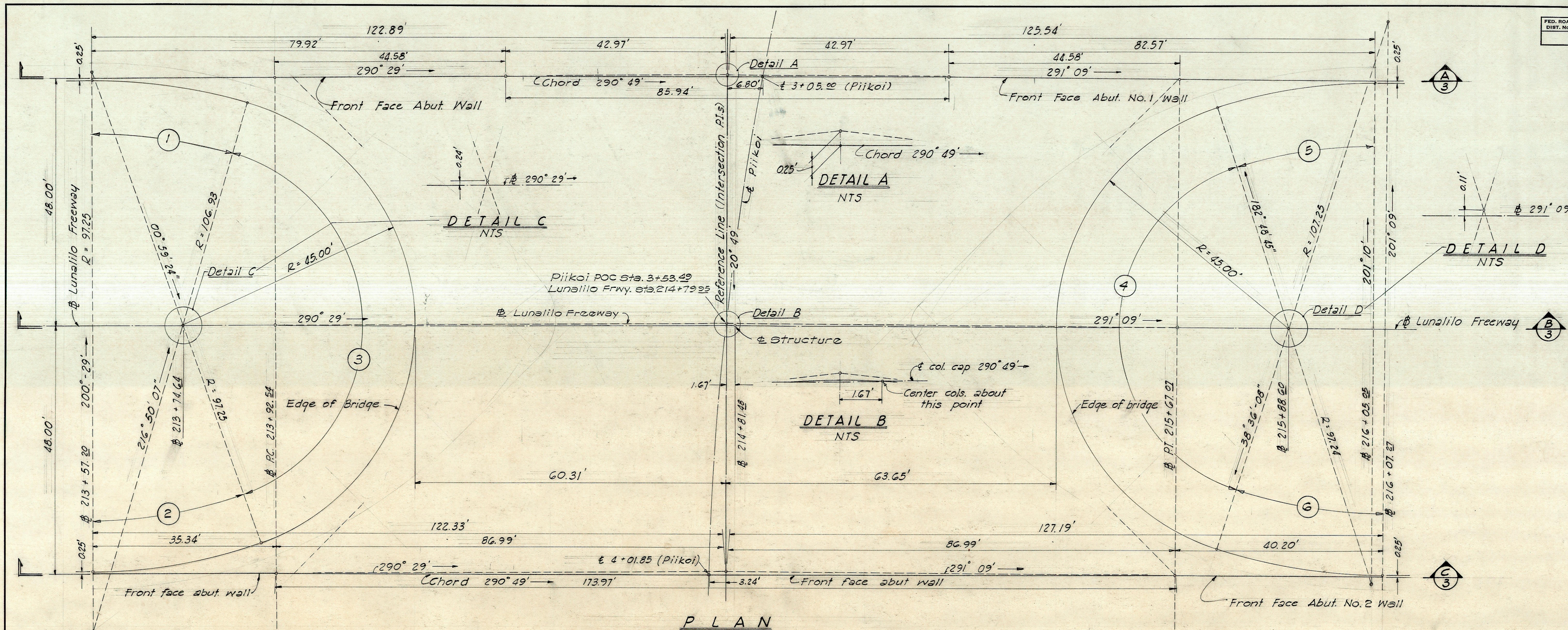
LUNALILO FREEWAY
PROJECT NO. BU-072-1(4)



SHEET No. 2 OF 14 SHEETS

5927.190

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				3	14



PLAN

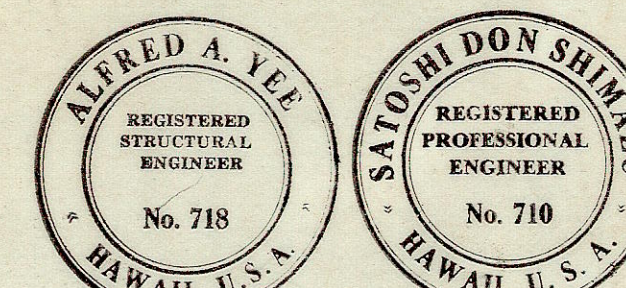
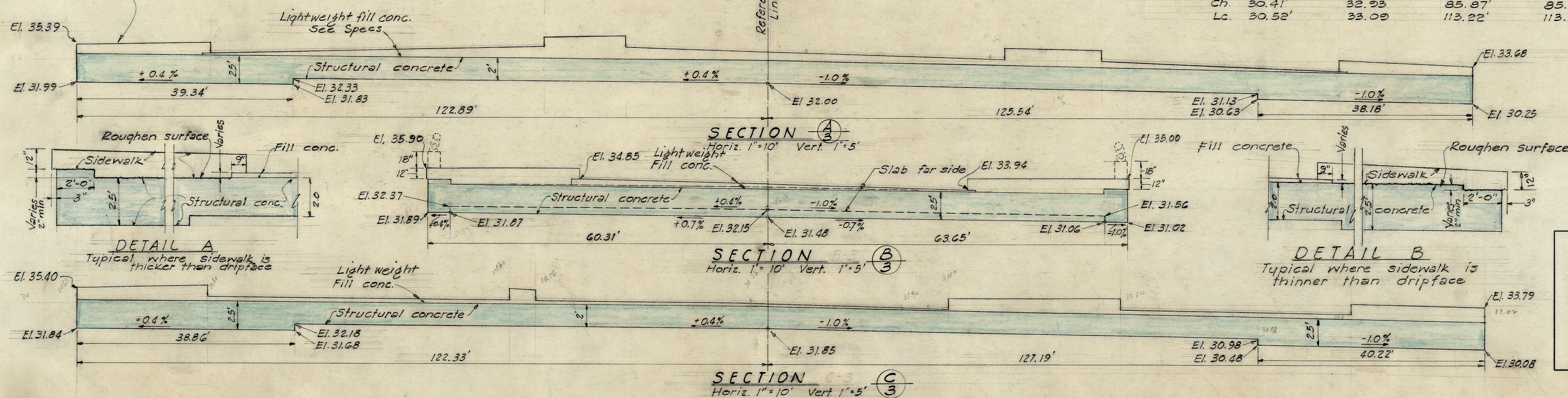
Scale: 1"=10'

NOTE: Roadway finish top elevations see dwg. No. 5927.102
Fill concrete elevations 2" below roadway finish elevations

CURVE DATA

	①	②	③	④	⑤	⑥
Δ	16°-21'-07"	12°-25'-30"	144°-09'-17"	144°-12'-38"	18°-21'-14"	17°-27'-08"
R	100.00'	97.25'	45.00'	45.00'	97.24'	107.25'
T	15.36'	16.70'	143.39'	139.37'	15.17'	16.40'
Ch	30.41'	32.93'	85.87'	85.65'	31.07'	32.52'
Lc	30.52'	33.09'	113.22'	113.26'	31.15'	32.67'

Note: For parapet base & top of sidewalk elev. see Sheet 5927.102



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PIIKOI ST. OVERCROSSING
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PROJECT No. BU-072-1(4)

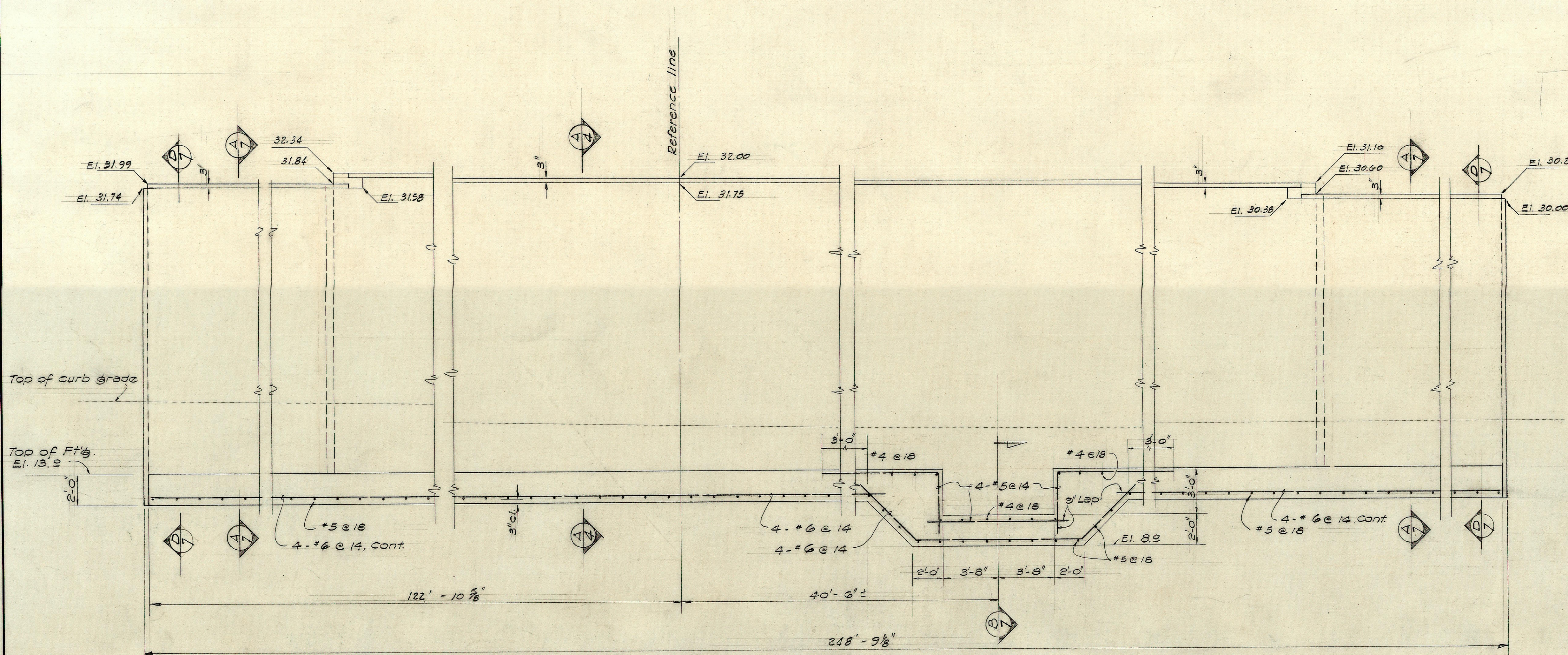
SHEET No. 3 OF 14 SHEETS

5927.101

Hand-drawn plan view of a bridge structure. The drawing shows a long, narrow bridge deck with various dimensions and labels. Key features include:

- Dimensions:**
 - Overall length: $248' - 5\frac{1}{8}"$
 - Segment lengths: $122' - 10\frac{3}{4}"$, $125' - 6\frac{1}{2}"$, $36' - 10\frac{1}{2}"$, $6' - 2' - 0"$, $6' - 9\frac{3}{8}"$, $2' - 0' - 0"$, $35' - 8\frac{1}{8}"$, $40' - 0' - 0"$.
 - Vertical dimensions on the left: $4' - 0' - 0"$, $2' - 0' - 0"$, $12' - 1' - 0"$, $9"$.
 - Vertical dimensions on the right: $12"$, $2"$.
- Labels:**
 - Reference line**: A vertical line near the center.
 - Front face abut. No. 1**: Two locations, one on the left and one on the right.
 - Prickoi Sta. 3+05.00**: A stationing point marked with a circle.
 - Prickoi Street**: A street crossing the bridge, labeled with a north arrow pointing towards the top-left.
 - Bearing Abut. No. 1**: A label at the far right end.
 - CSB #71-E**: A label near the bottom center.
- Other features:**
 - Blue shaded areas representing the bridge deck.
 - Black dashed lines indicating structural boundaries or centerlines.
 - North arrow pointing towards the top-left.

Scale: $\frac{1}{4}" = 1' - 0"$
NOTE: See sheet 592-191 for layout and front face dimensions



Note: Abut. ftgs shall be continuous with retaining wall footing with steel lapping a min. of 32 diam.

Hand-drawn architectural drawing of a column section. The column is 4'-0" wide and 2'-0" high. It features a central vertical reinforcement bar (R2) and a horizontal reinforcement bar (R1) at the top. The drawing includes dimensions for the column width (4'-0"), height (2'-0"), and reinforcement bar placement (2'-0" from the center). A note indicates "See Sheet 10 for hinge detail".

SECTION
scale $\frac{1}{2}'' =$

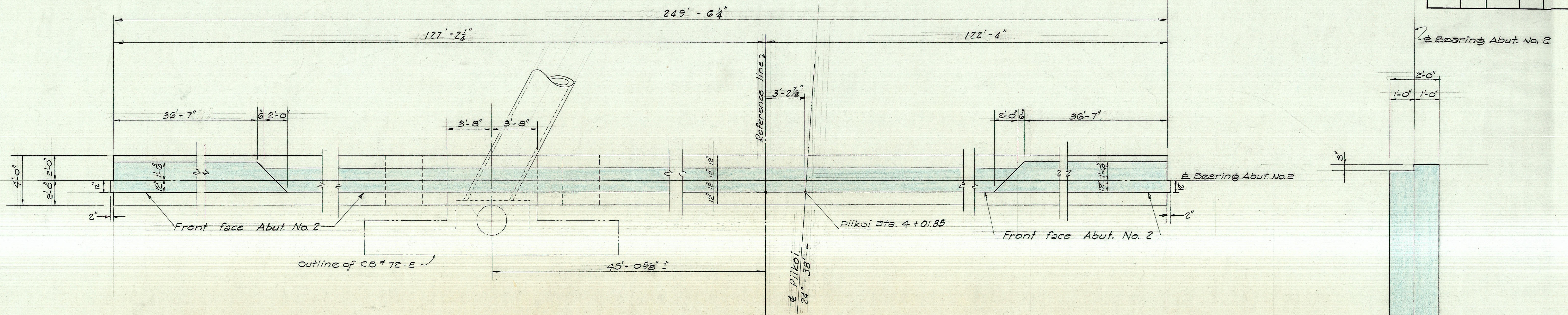


STATE OF HAWAII
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HIGHWAYS DIVISION
PIIKOI ST. OVERCROSSING
BASELINE STA. 214 + 79.25
LONALILLO FREEWAY
PROJECT NO. BU-072-1(4)

SHEET No. 4 OF 14 SHEETS

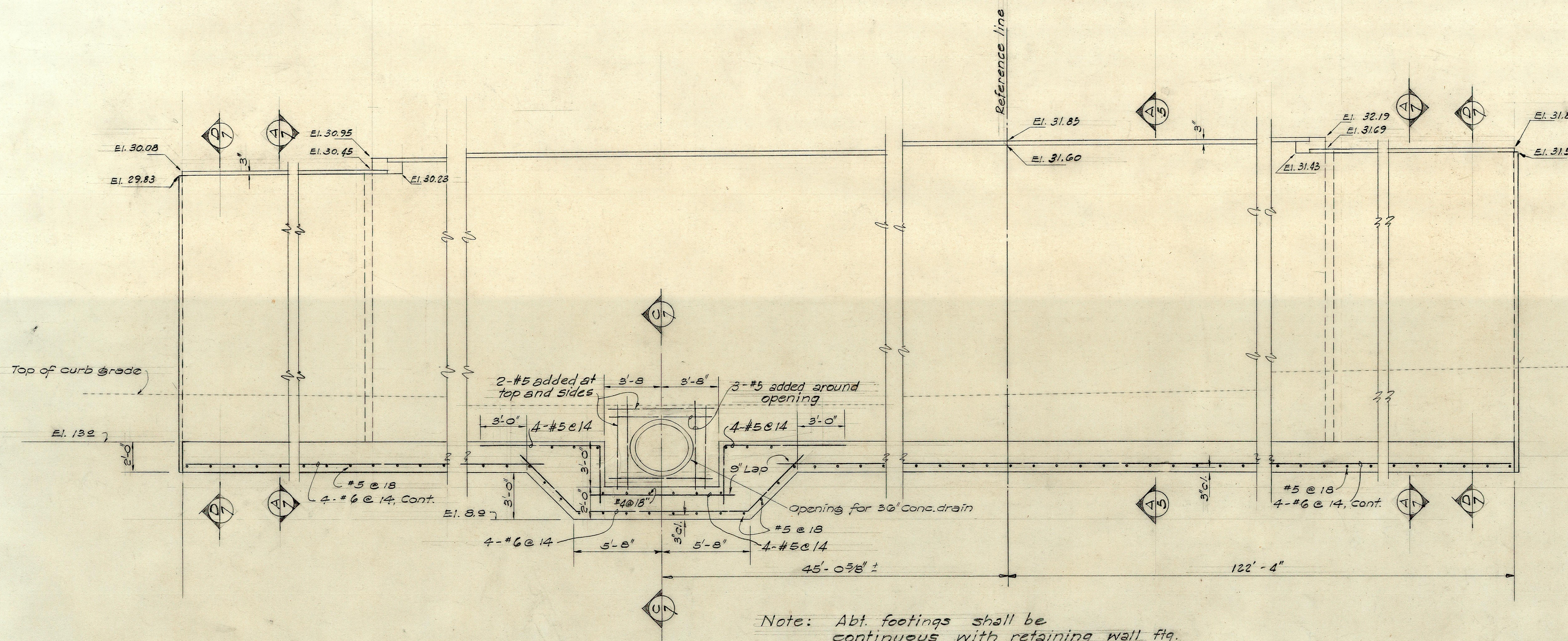
5927. 192

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS



PLAN - ABUT NO. 2

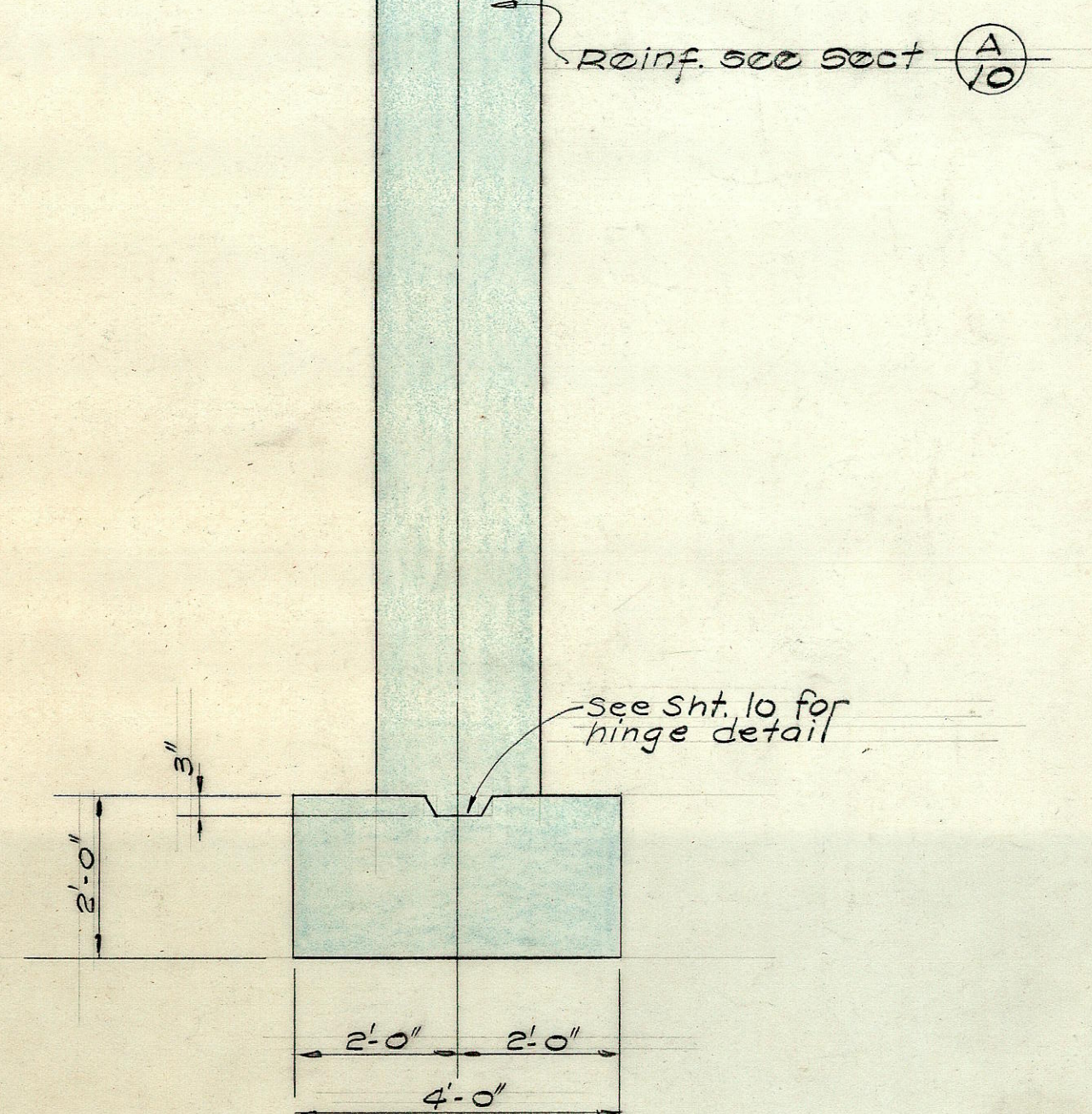
Scale: 1/4" = 1'-0"
NOTE: See sheet 5927.193 for layout & front face dimensions



ELEVATION ABUT. NO. 2

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

Note: Abt. footings shall be continuous with retaining wall ftg. with steel lapping a min. of 32 diam.

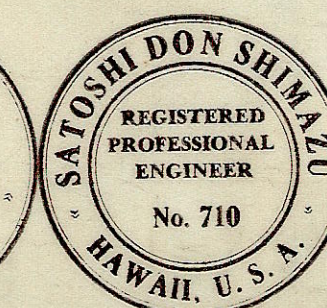
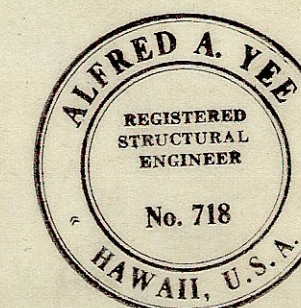


SECTION A

Scale: 1/8" = 1'-0"

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PILIKOI ST. OVERCROSSING
BASELINE STA. 214+79.25
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SHEET NO. 5 OF 14 SHEETS



5927.193

Structure

Interval I 44'-11 1/2"

Interval II 63'-0"

Interval III varies

1'-8"

30'-0"

Top of deck (structural concrete)

Top of abutment

Top of deck (structural concrete)

Top of abtmt.

#4 straight bars 49 spaces @ 11" = 44'-11"

#6 straight bars 29 spaces @ 18" = 43'-6"

#6 straight bars 26 sp. @ 9" = 13'-6"

#6 straight bars 9" oc

Constr. jt.

Reference Line

18'-0"

2'-0"

Footing

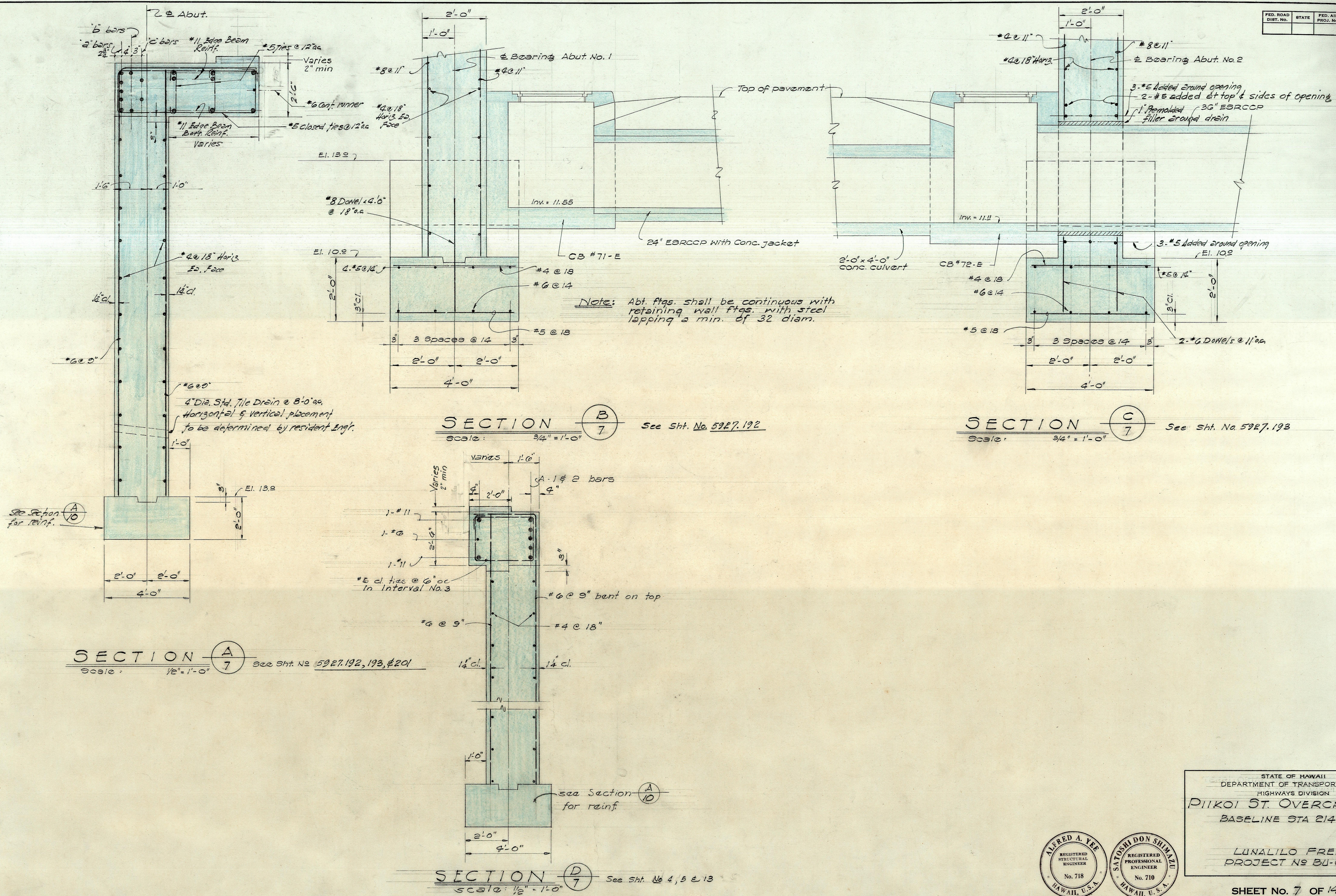
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIIKOI ST. OVERCROSSING
Base Line Sta. 214 + 73.25

LUNALILO FREEWAY
PROJECT No BU-072-1(4)

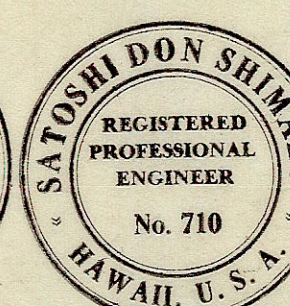
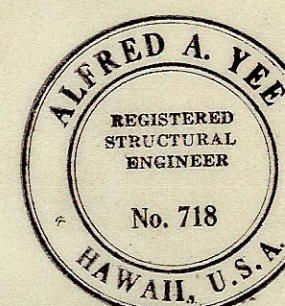


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				7	14



SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES CHECKED BY	
REVISIONS	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PIIKOI ST. OVERCROSSING
BASELINE STA 214+79.35
LUNALILO FREEWAY
PROJECT NO BU-072-1(4)



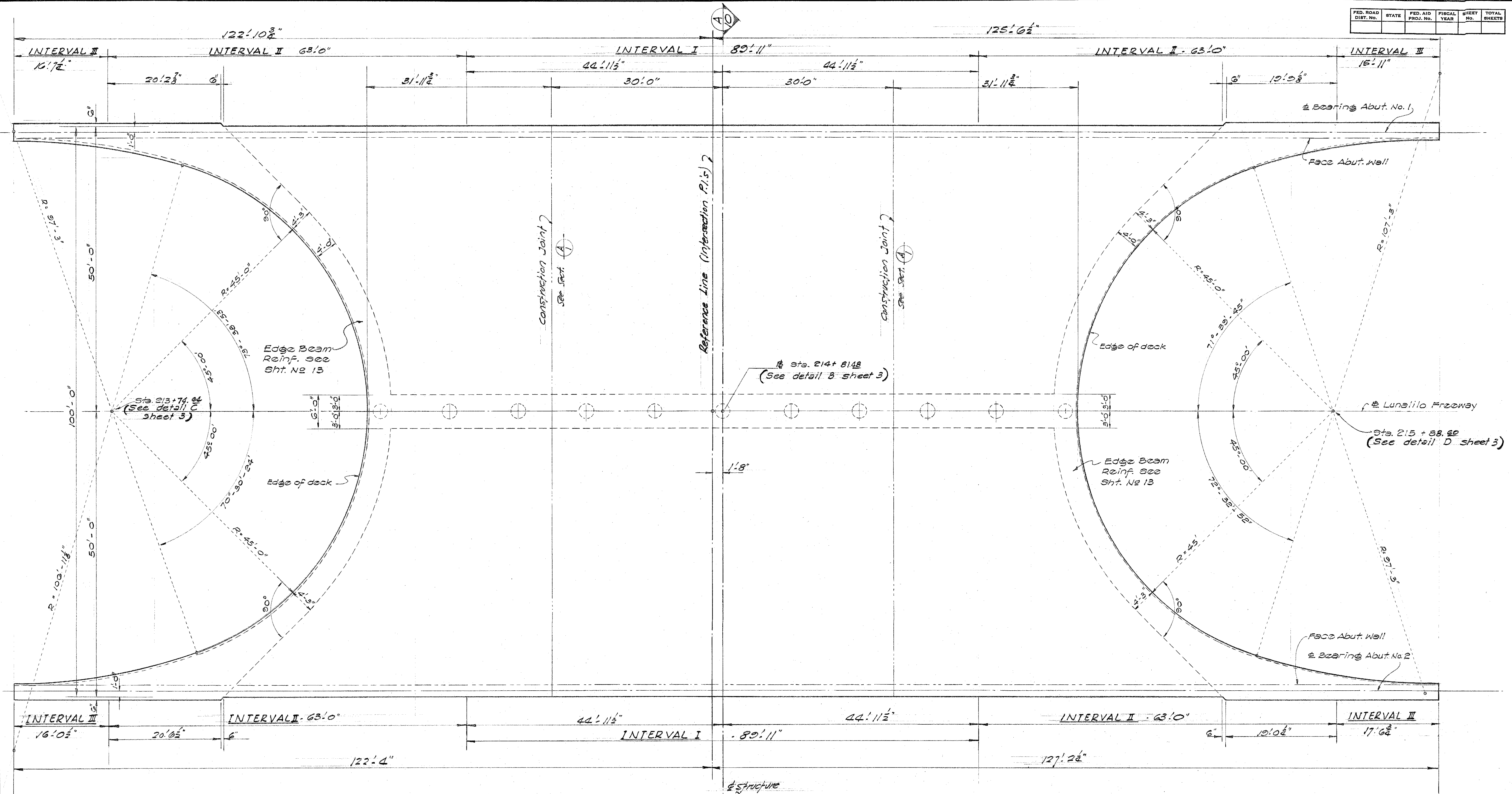
SHEET NO. 7 OF 14 SHEETS

5927.195

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

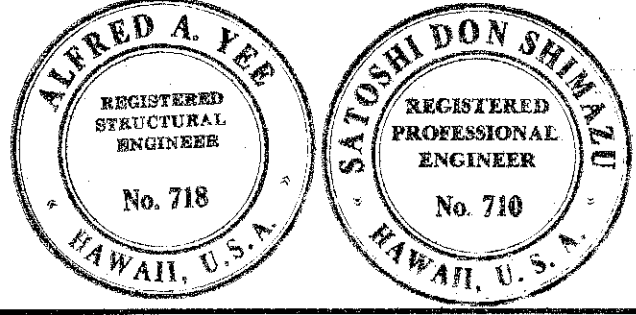


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				9	14



DATE: _____
 SURVEY PLOTTED BY: _____
 DRAWN BY: _____
 CHECKED BY: _____
 NOTE BOOK NO. _____

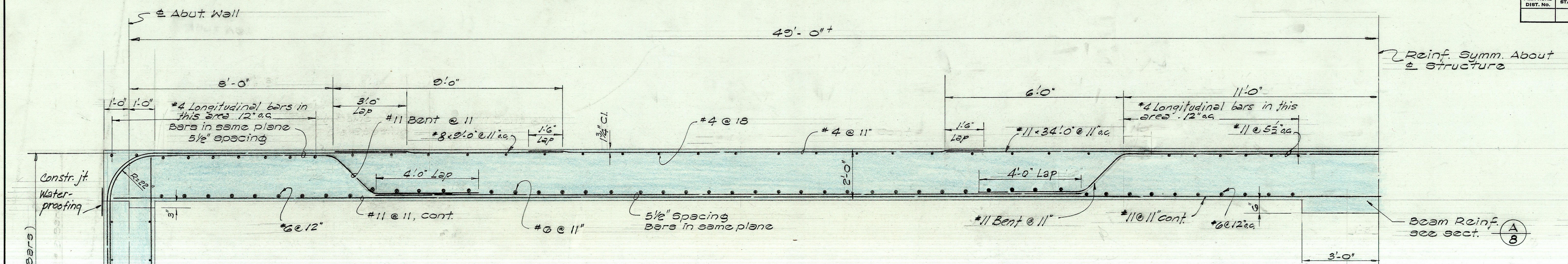
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PIIKOI ST. OVERCROSSING
 BASELINE STA. 214+79.25
 LUNALILO FREEWAY
 PROJECT NO. 34-072-1(4)



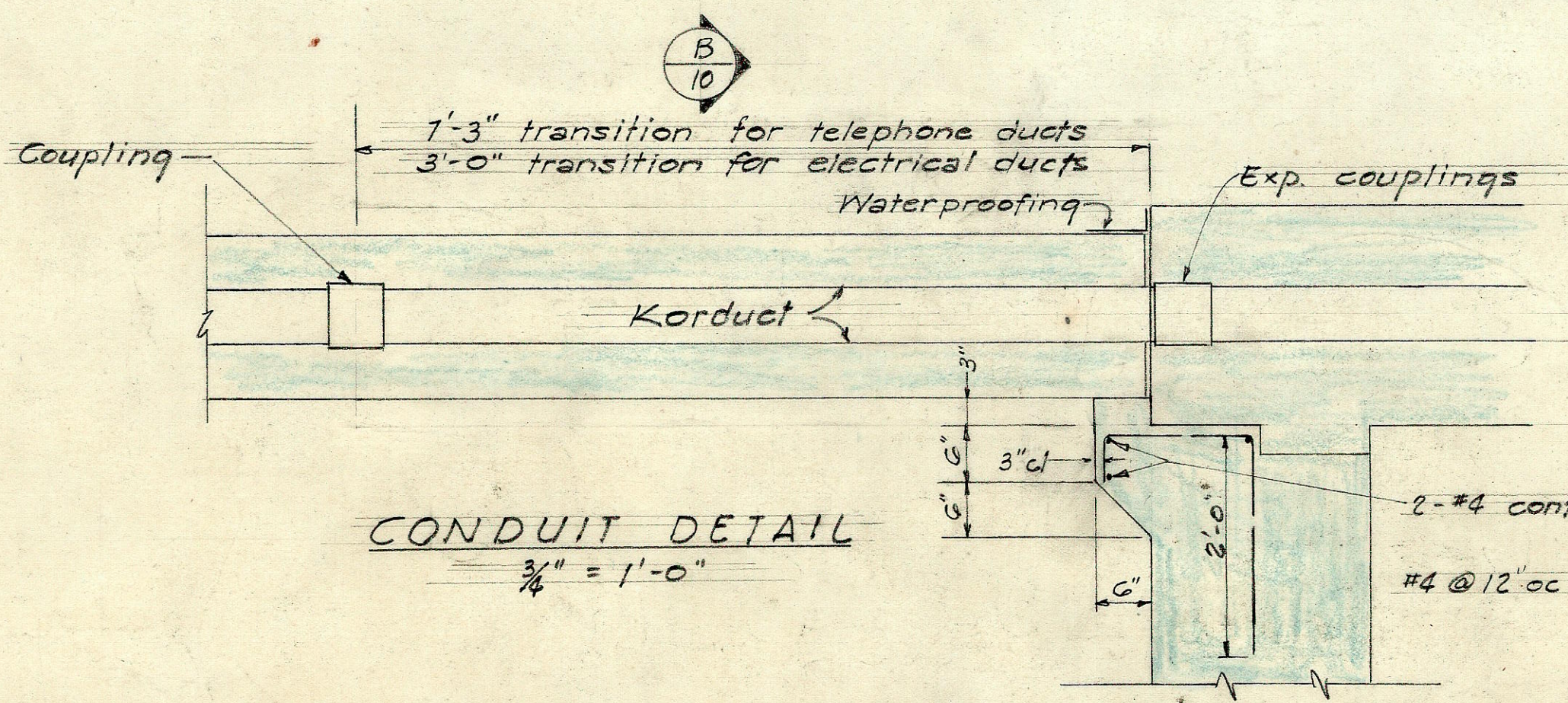
SHEET NO. 9 OF 14 SHEETS

5927.197

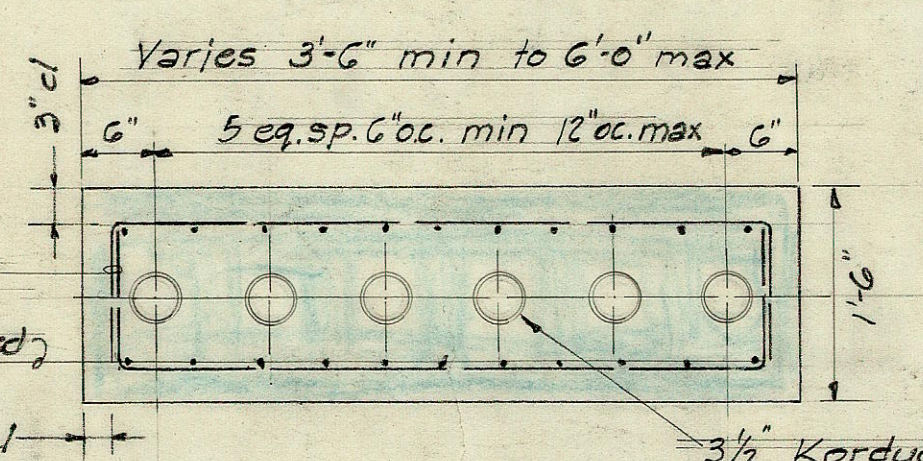
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS



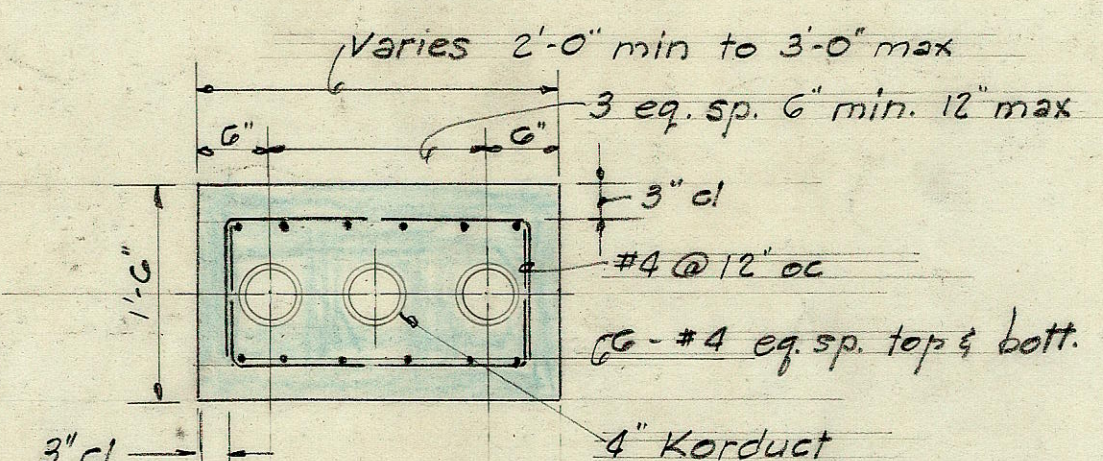
SECTION A/10
Scale 1/2" = 1'-0"
See Sheet 2
For fill concrete on slab see Sheet 3



CONDUIT DETAIL
3/4" = 1'-0"

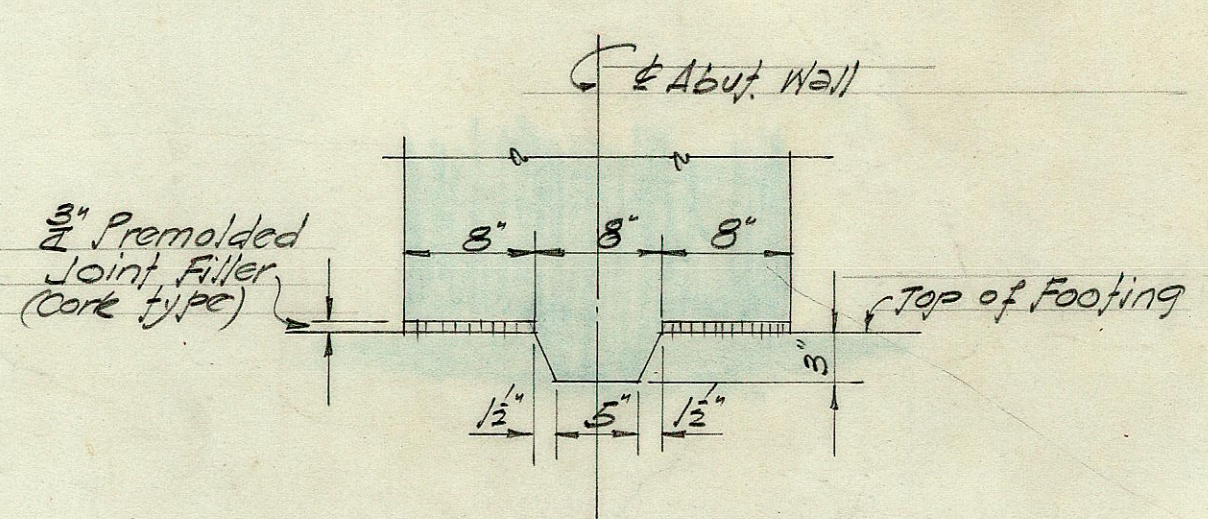


SECTION B/10 3/4" = 1'-0"
TELEPHONE DUCTS



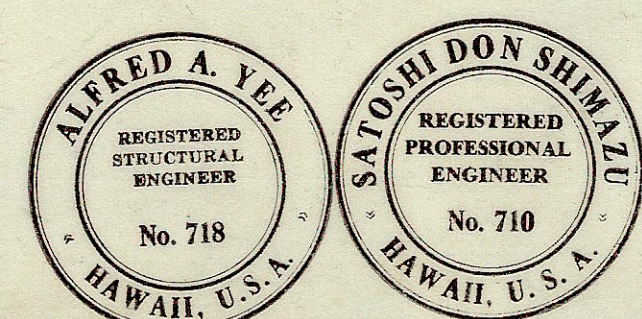
SECTION B/10 3/4" = 1'-0"
ELECTRICAL DUCTS

Note: Abt. ftg. shall be continuous with ret. wall ftg. with steel lapping a min. of 32 diam.



ABUT. WALL HINGE DET.
Scale: 1/2" = 1'-0"

SURVEY PLOTTED BY	DATE
DRAWN BY	
QUANTITIES CHECKED BY	
NOTE BOOK NO.	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PIIKOI ST. OVERCROSSING
BASELINE STA. 214+73.25
LUNALILO FREEWAY
PROJECT NO. BU-076-1(4)

SHEET No. 10 OF 14 SHEETS

5927.198

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

PART PLAN ~ DECK SLAB, BOT. REINF.

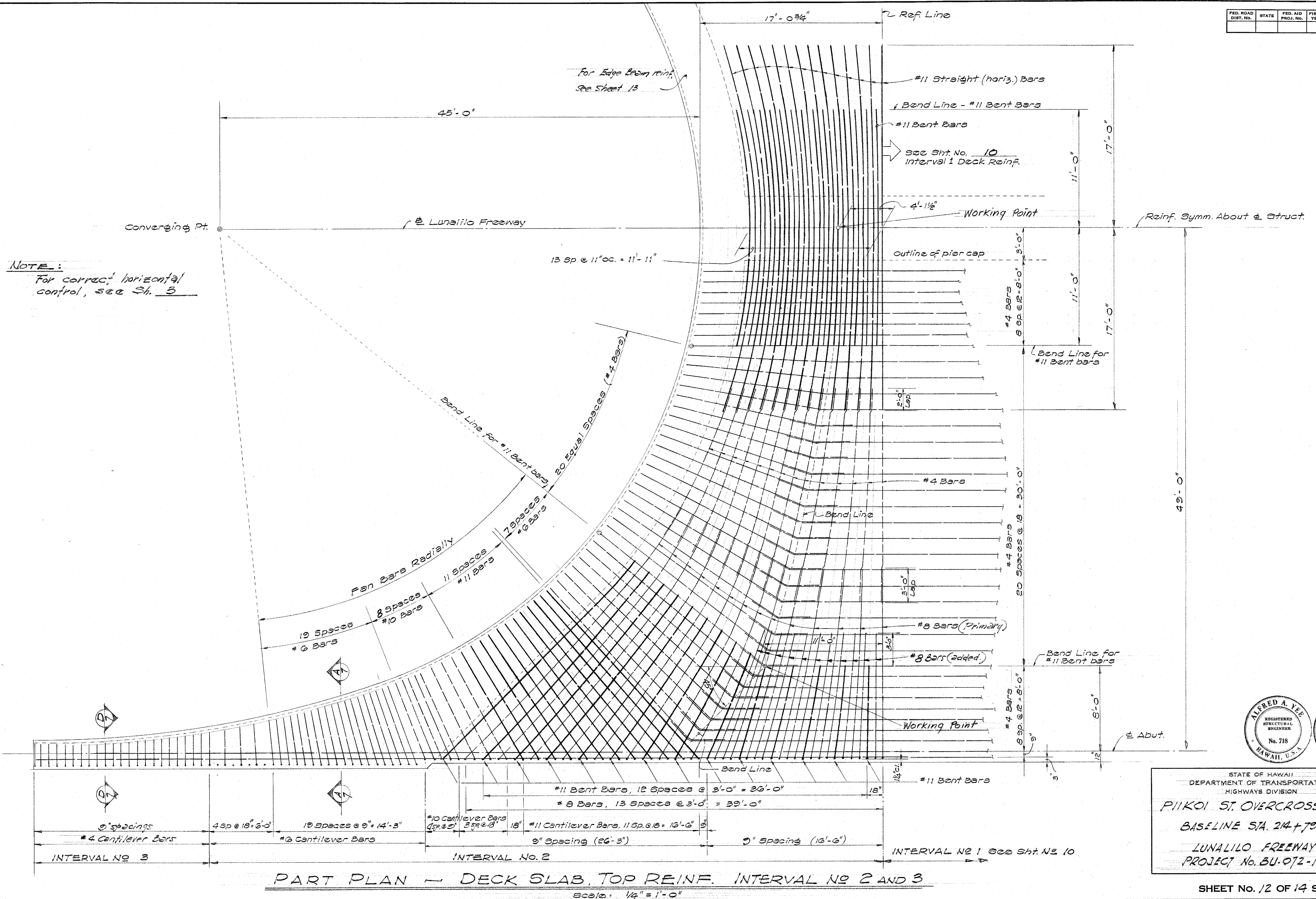
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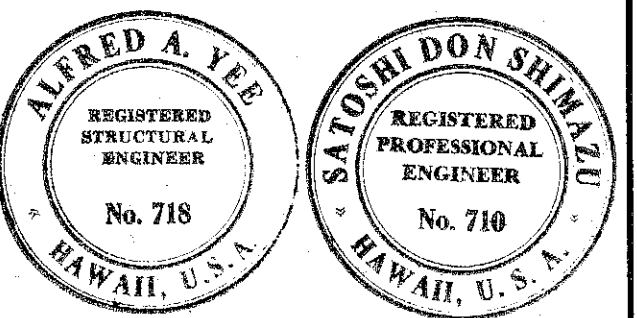
SHEET No. 11 OF 14 SHEETS

5927.199

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS



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

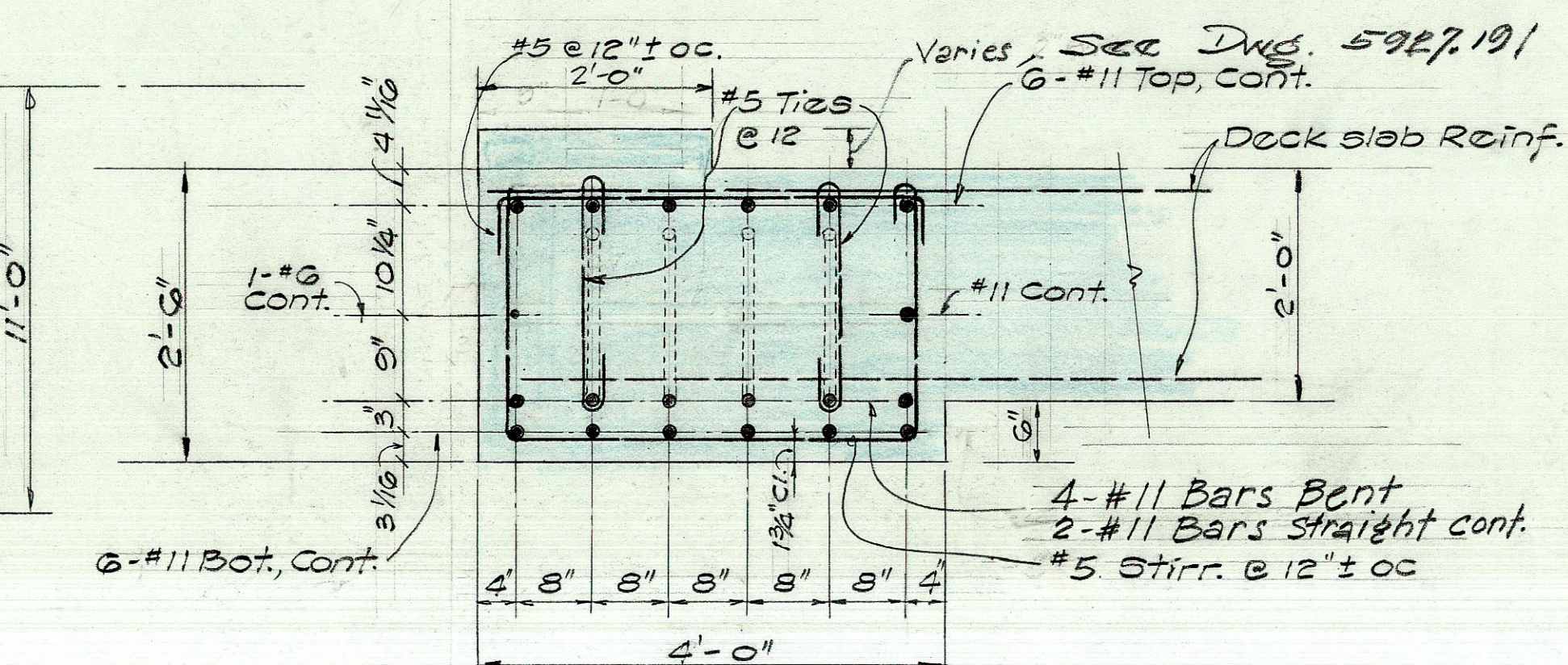


STATE OF HAWAII
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HIGHWAYS DIVISION
PIIKOI ST. OVERCROSSING
BASELINE STA. 214+79.85
LUNALILO FREEWAY
PROJECT No. BU-072-1 (4)

SHEET No. 12 OF 14 SHEETS

5927.200

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



Hand-drawn technical drawing of a rectangular reinforcement layout for a concrete slab. The drawing shows a rectangular area with dimensions and reinforcement details. The overall width is 6'-0" and the overall height is 4'-0". The width is divided into 4 equal spaces, with a total width of 6'-0" and a spacing of 1'-6" between the centerlines of the reinforcement bars. The height is divided into 4 equal spaces, with a total height of 4'-0" and a spacing of 1'-0" between the centerlines of the reinforcement bars. The reinforcement consists of 5 #11 bars in the top and 5 #11 bars in the bottom, with 5 #5 cross ties at 12" intervals. The drawing also shows 4 #5 cross ties at 12" intervals. The reinforcement is shown as a grid of bars with dots representing the bars. The drawing is labeled with dimensions and reinforcement details.

SECTION B
13
Scale: $\frac{3}{4}" = 1' - 0"$

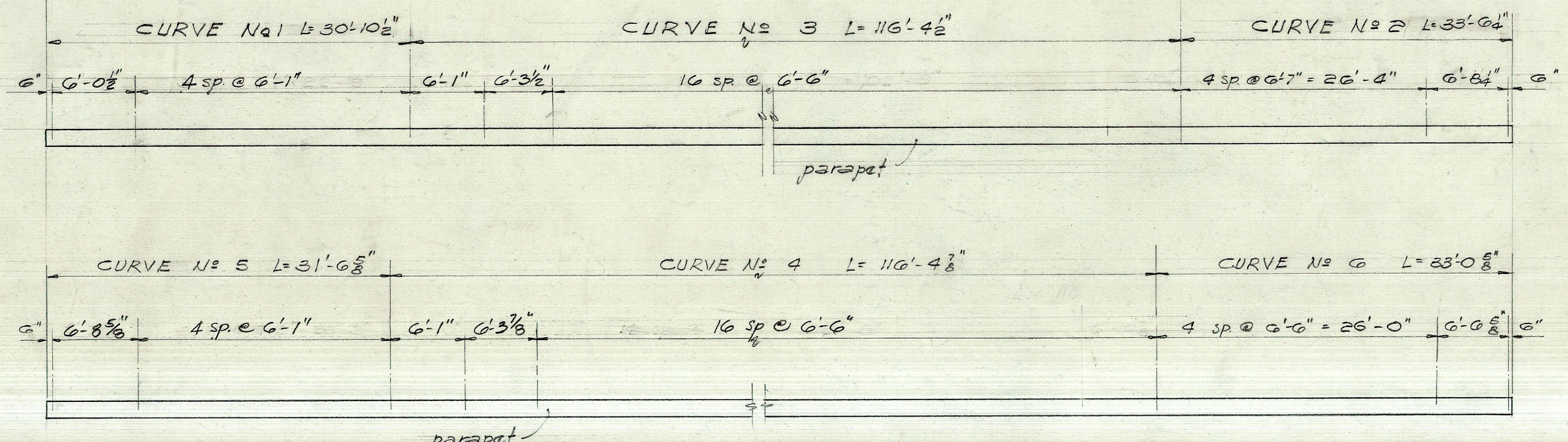
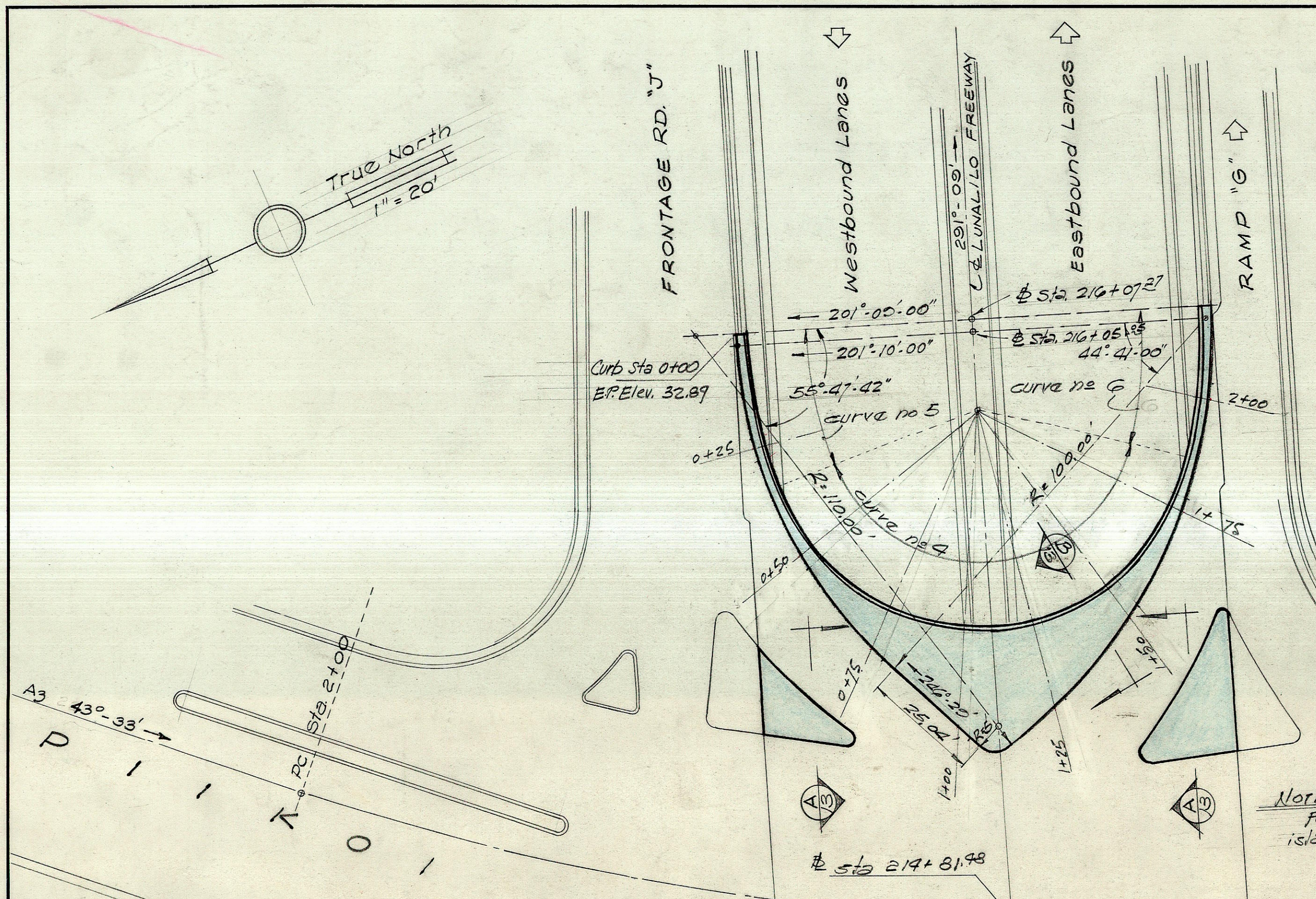
Scale: $\frac{1}{4}" = 1'-0"$



SHEET No. 13 OF 14 SHEETS

5927.201

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				14	14

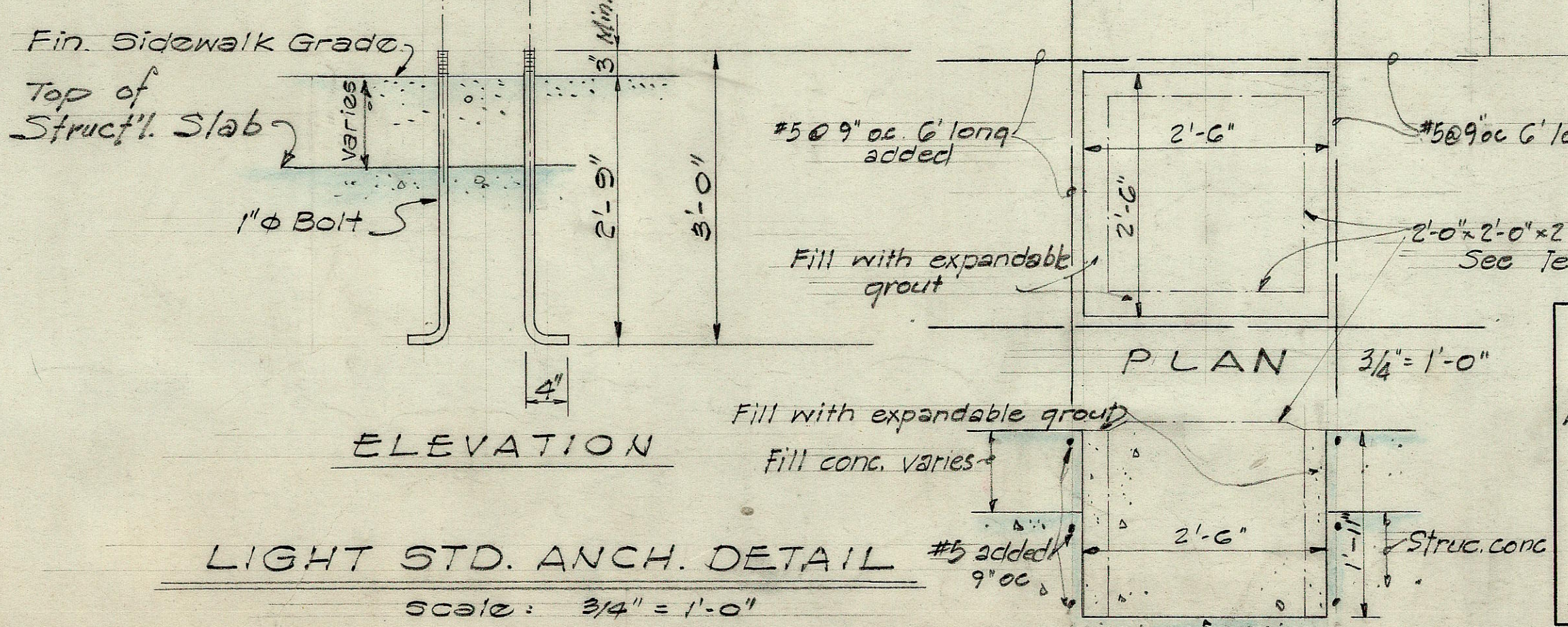
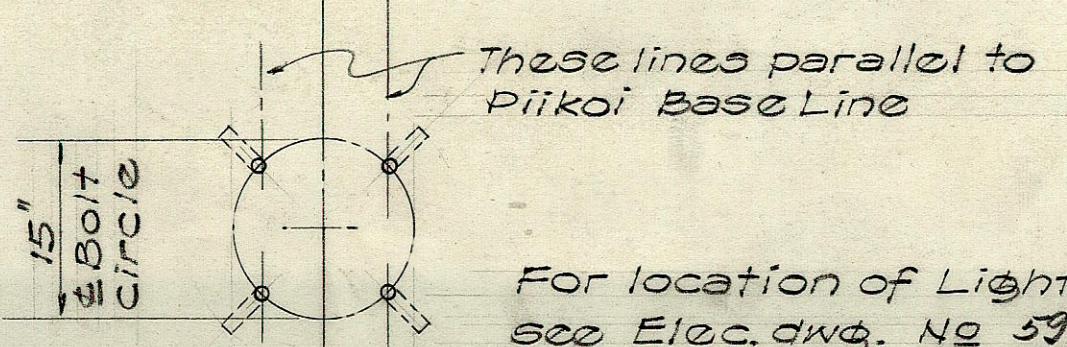
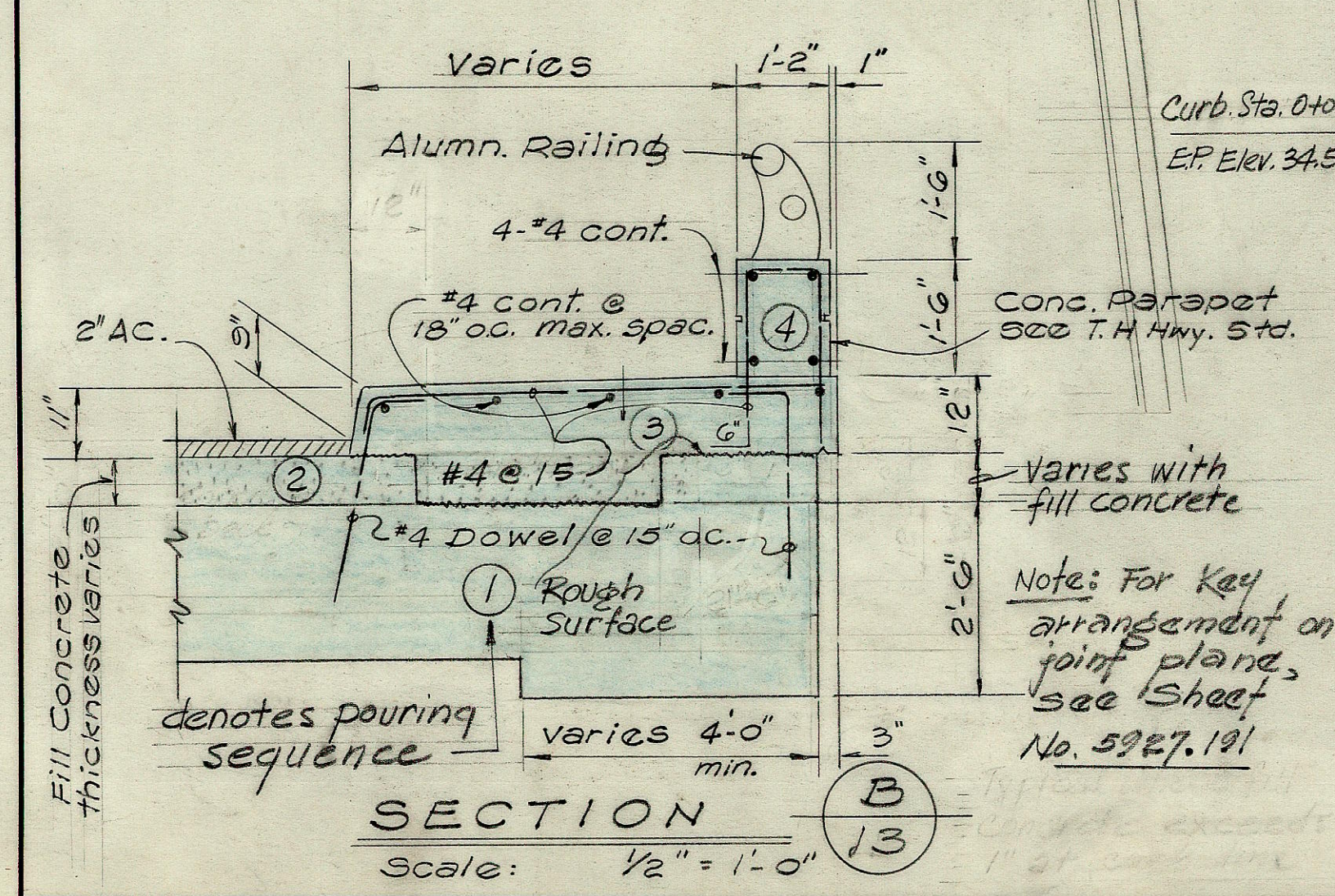
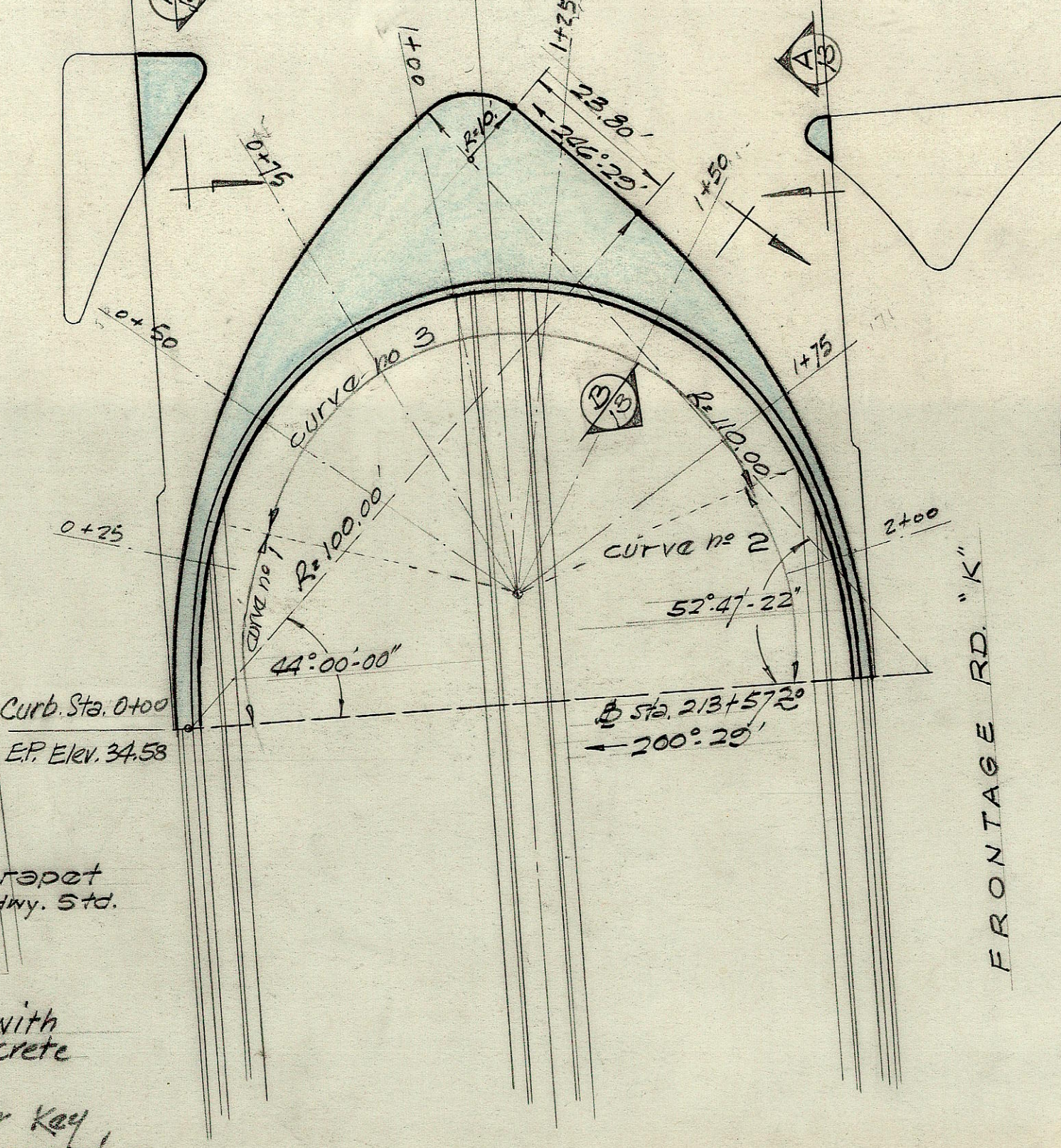
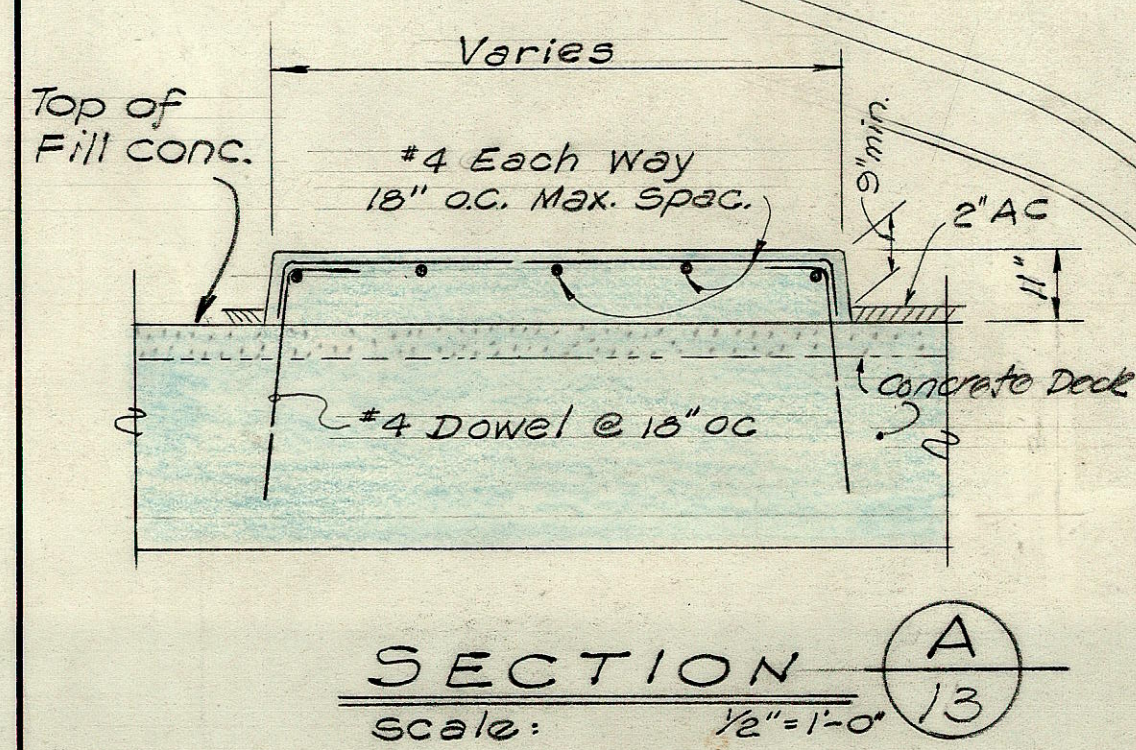


NOTES:
Rail spacings are to 1/2" of aluminum post and measured along inside face of parapet.
For rail and joints detail see Territorial Standards.
Rails located in curves 3 & 4 to be on curve.
Rails located in curves No. 1, 2, 5 and 6 to be on chord.

ELEVATIONS AT E.P.

See sketch below

EWA CURB-STARTING AT MAUKA END			DIAMOND HEAD CURB STARTING AT MAUKA END		
Parapet Base Elev.	E.P. Elev.	CURB STA.	E.P. Elev.	Parapet Base Elev.	
35.36	34.58	0+00	32.89	33.67	
35.55	34.76	0+25	33.30	34.09	
35.70	34.88	0+50	33.68	34.43	
35.87	34.96	0+75	33.96	34.81	
35.89	35.00	1+00	34.09	34.97	
35.90	35.02	Ridge	34.11	35.00	
35.86	35.00	1+25	34.09	34.93	
35.81	34.96	1+50	33.95	34.78	
35.66	34.88	1+75	33.69	34.48	
35.54	34.76	2+00	33.30	34.11	
35.41	34.63	2+16.46	33.02	33.80	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIIKOI ST. OVERCROSSING
BASELINE STA. 214179.95

LUNALILO FREEWAY
PROJECT No BU-072-1(4)

REGISTERED PROFESSIONAL ENGINEER
No. 718
ALFRED A. YEE
HAWAII, U.S.A.

REGISTERED PROFESSIONAL ENGINEER
No. 710
SITOSH DON SHIMAZU
HAWAII, U.S.A.