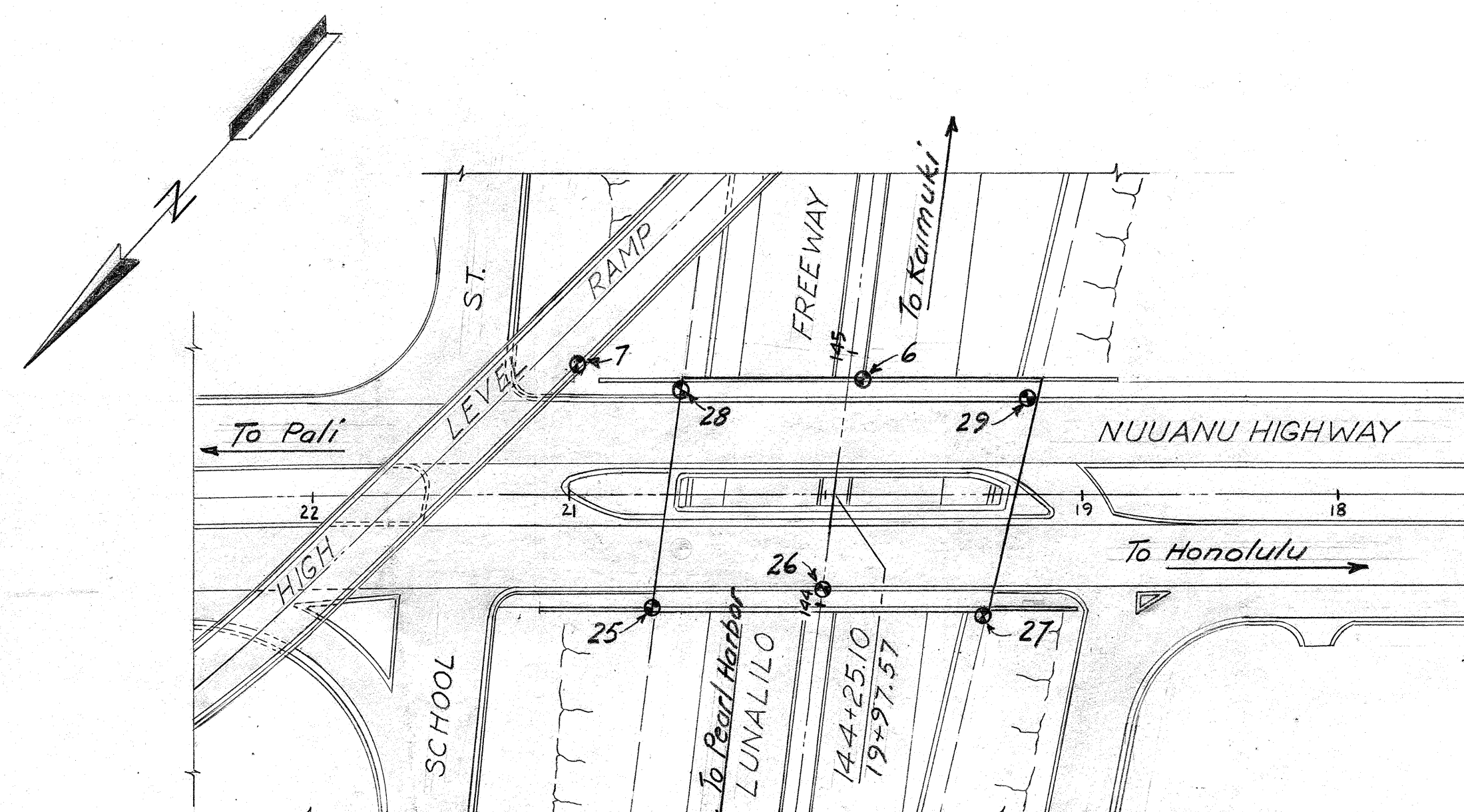




LOCATION PLAN
Scale: 1"=50 ft.

GENERAL NOTES

MATERIALS

All concrete class A-1 unless otherwise noted on plans.
All steel reinforcement shall be intermediate grade.

CONSTRUCTION METHODS

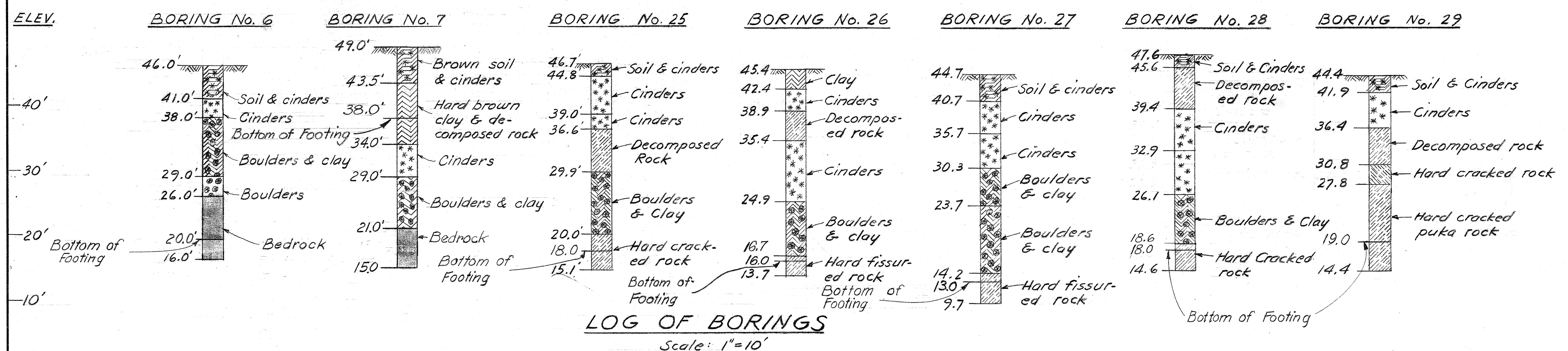
Curb and sidewalk on bridge shall not be poured until after release of falsework.
Placing of backfill at bridge shall not be started until after the concrete in the superstructure has reached a strength of 3,000 lbs. per sq. inch. The fill must be brought up evenly and simultaneously at both ends of the structure so as to avoid one sided earth pressure.

For concrete finish - See Standard Specifications.

Footings shall be poured to neat lines as shown. In case of over excavation, space between footing and ground shall be filled with concrete at the contractor's expense. This fill concrete shall have a minimum quality of Class D-1.

Falsework and forms for the support of box girders shall be designed to support the load that would be superimposed were the entire superstructure poured at one time. False work and forms supporting the bottom slab of box girders shall not be removed until 14 days after the final top slab pour. All interior forms except those permitted to remain in place shall be removed completely and the inside cleared of all loose material and swept clean. Forms for bottom slab of box girder shall be 5 ply panel board.

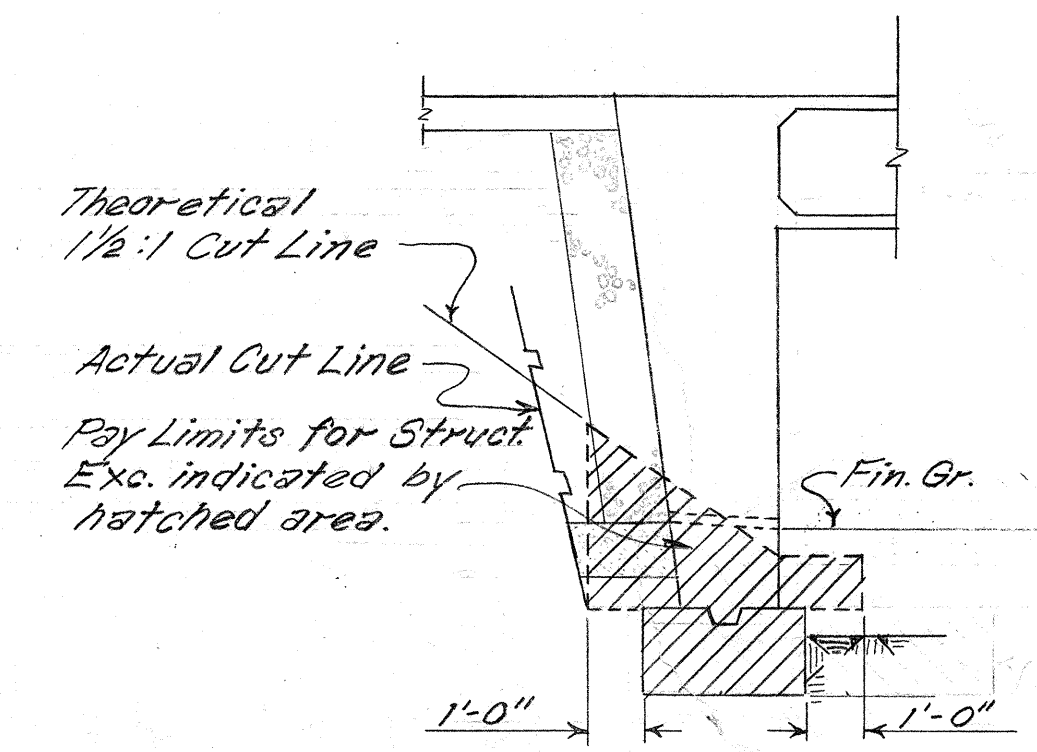
See attachment on sheet 245 Nuuuanu Hwy. for additional reinforcing bars @ retaining connection to abutment.



LOG OF BORINGS
Scale: 1"=10'

ESTIMATED QUANTITIES

Concrete	Lump sum (1900 cu. yds.)
Reinforcing Steel	Lump sum (228,900 lbs.)
Structural Excavation	1625 cu. yds.
A. C. Pav't. Mix No. II	61.7 tons
Bituminous Tack Coat	183 gals.
Filter Material	374 cu. yds.
Aluminum Railing	704 Lin. Ft.



TYP. DET. - PAY LIMIT LINE FOR STRUCTURAL EXC. AT ABUT.
No Scale

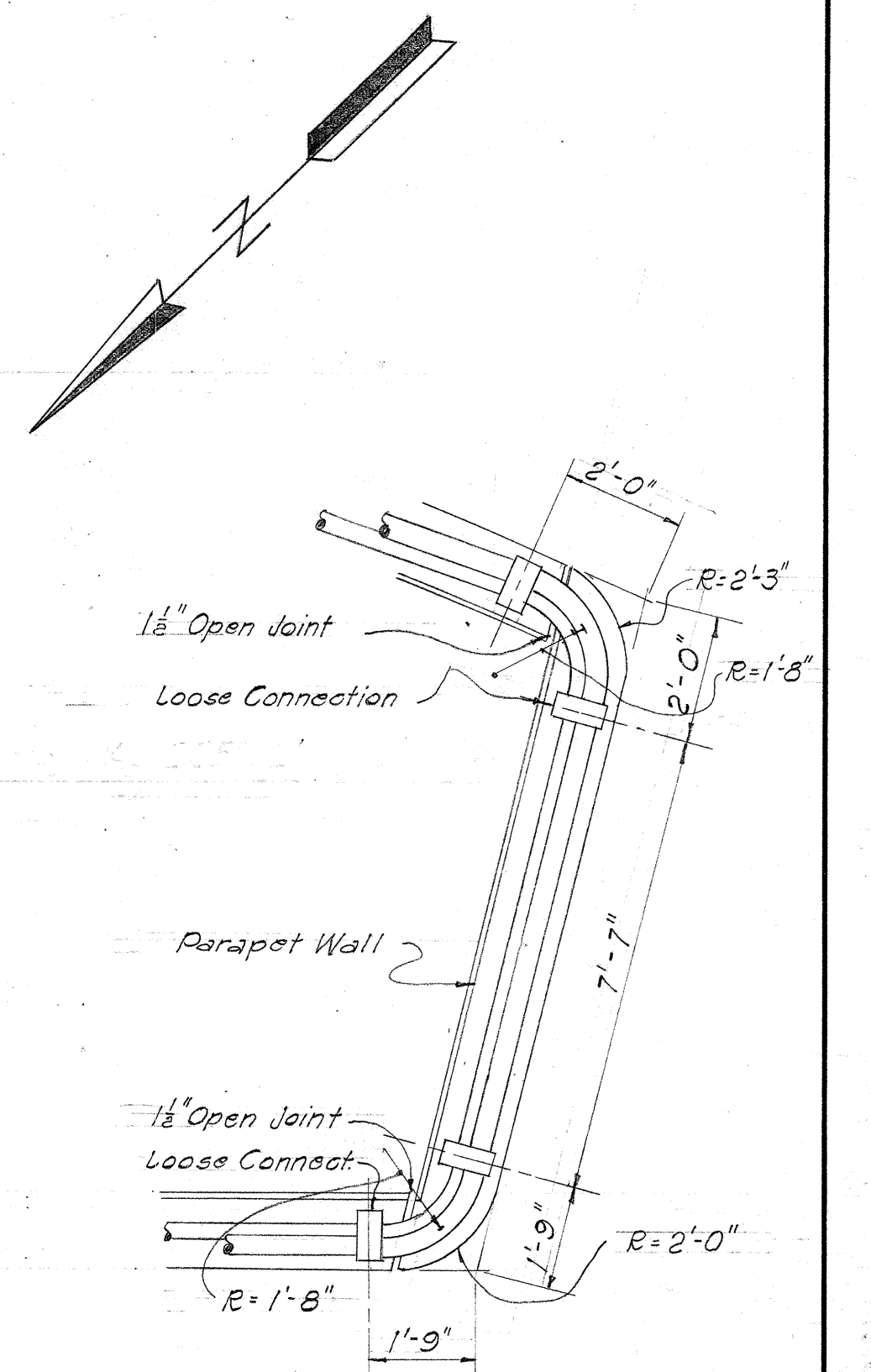
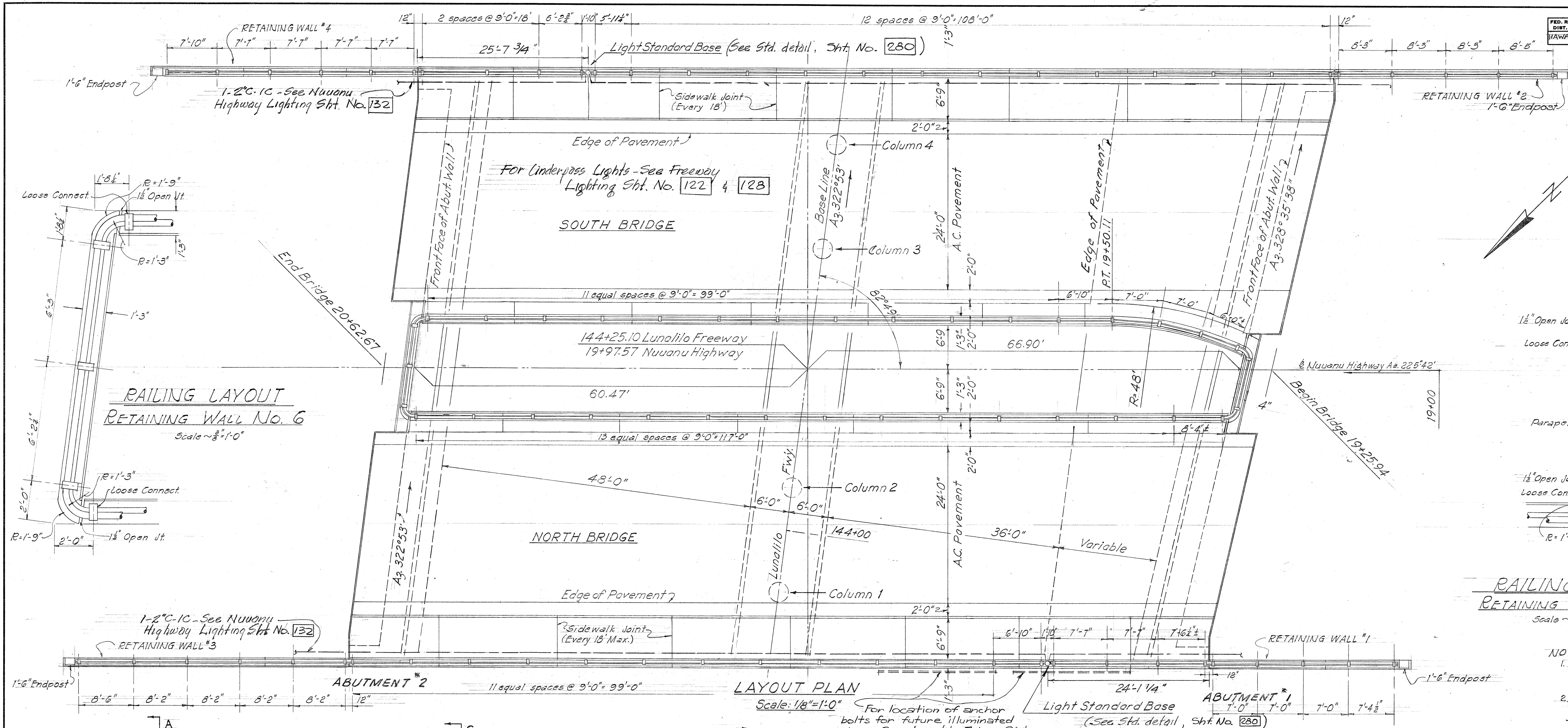


LAW & WILCOX • TUDOR • TOWILL
ARCHITECTS • ENGINEERS • SURVEYORS
James B. Wilcox
REGISTERED ENGINEER
DATE JUL 3 1957

STRUCTURE NO. 1
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
NUUANU HIGHWAY
PROJECT NO: BU-061-1(6), UNIT 4
GRADE SEPARATION NEAR
SCHOOL STREET
LOCATION PLAN & BORINGS

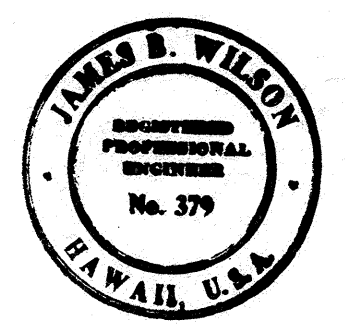
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	BU-061-1(6)	1958	105	148

REVISION No. 6 July 30, 1959
 Revised Footing for Abut. #2
 REV. No. 7, Aug. 11, 1959
 Revised footing for Col. #1 & #2



RAILING LAYOUT
 RETAINING WALL No. 5
 Scale ~ 3/8" = 1'-0"

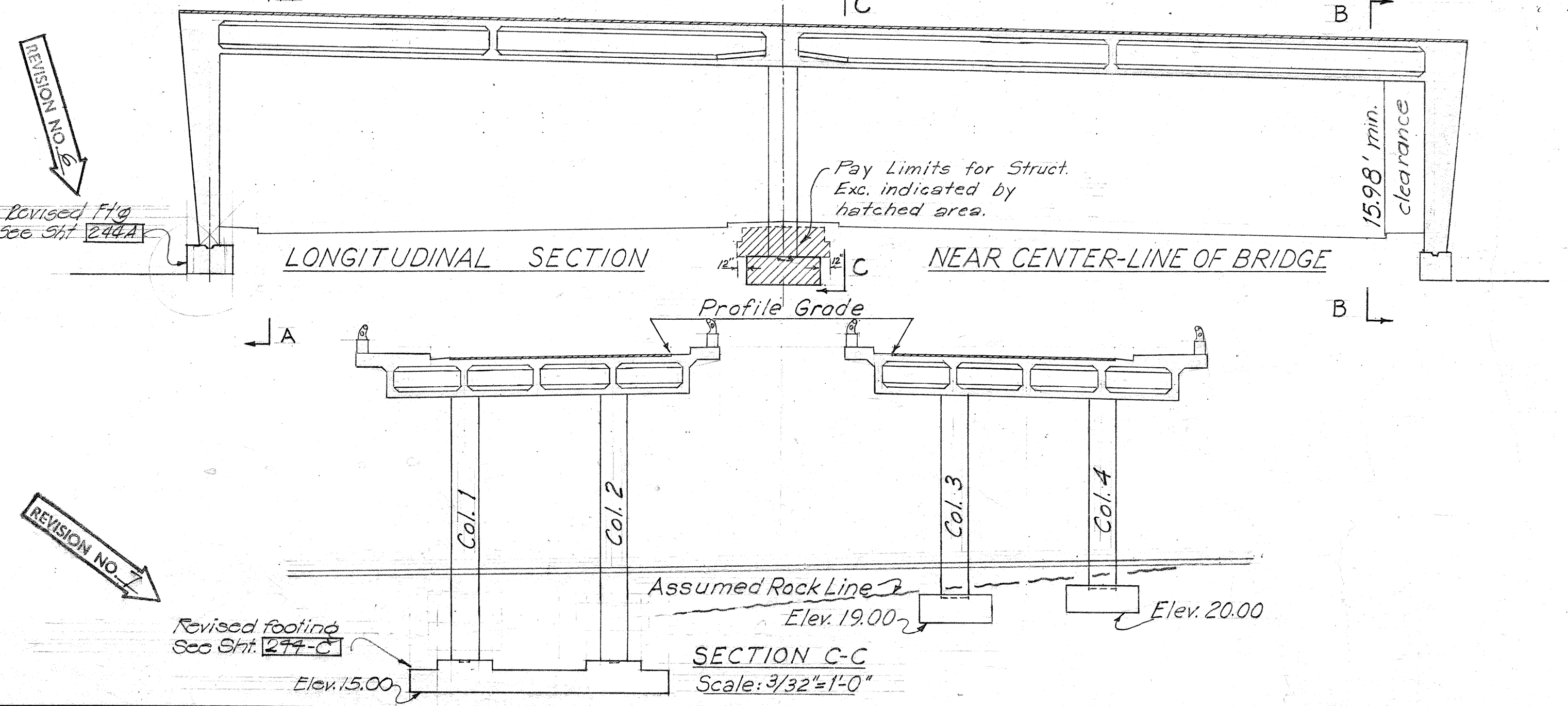
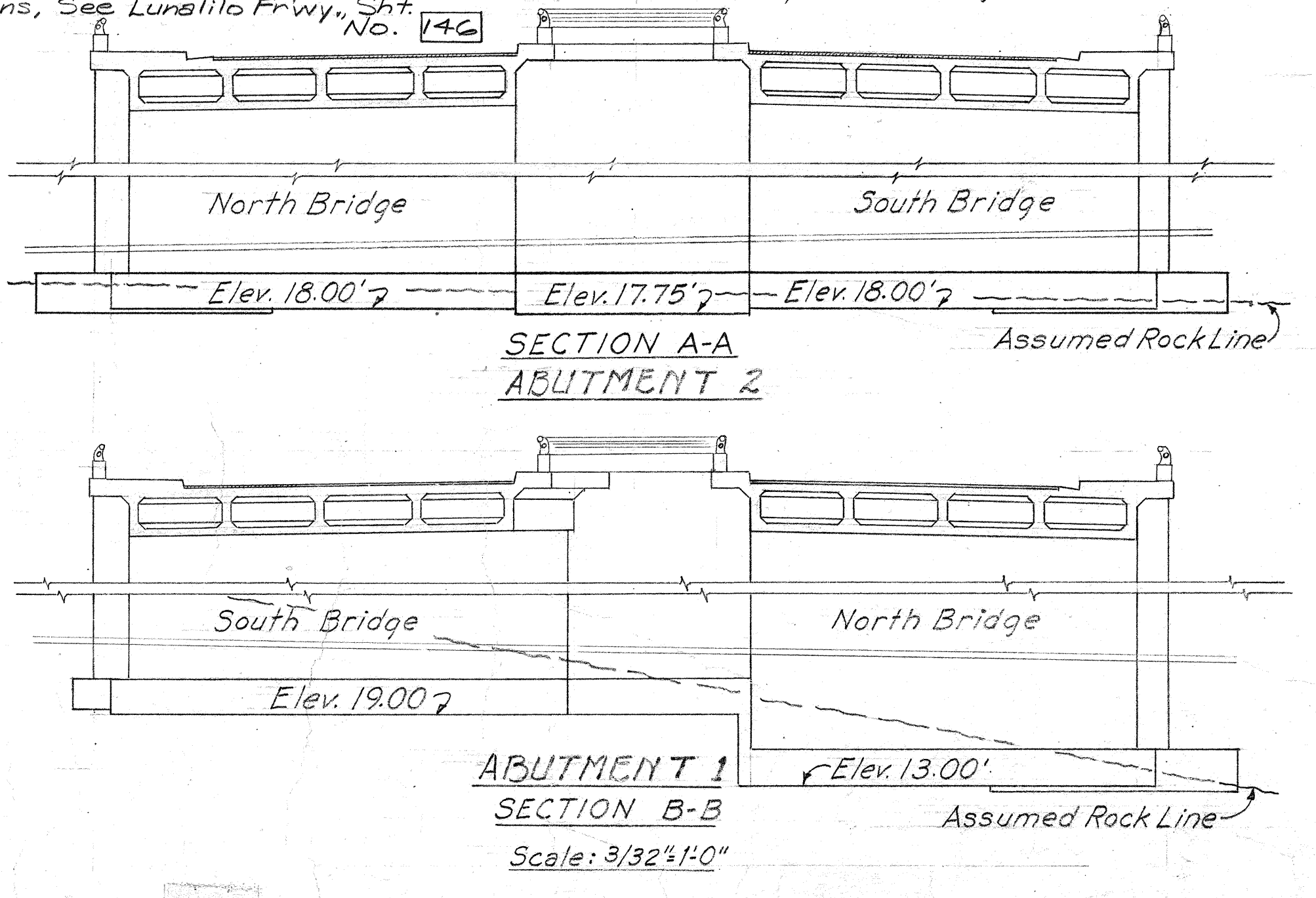
- NOTE
- For double post detail over exp. joint, see "Railing Std." Sht. No. [280]
 - Install underpass lighting conduits and outlet boxes as shown on Sht. No. [135] & [240]



STRUCTURE #1
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 DATE JUL 3 1957

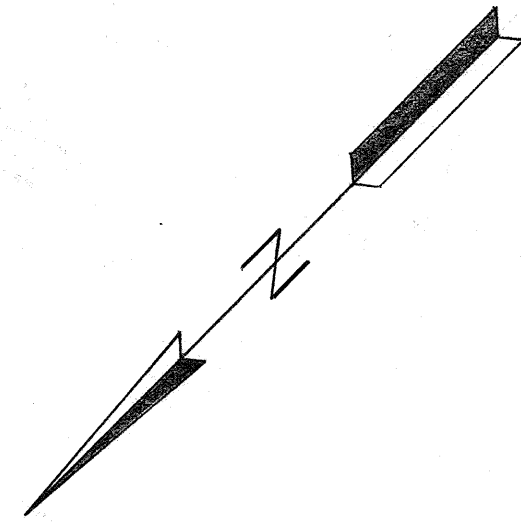
TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
 NUUANU HIGHWAY
 PROJECT NO. BU-061-1(6), UNIT 4
 GRADE SEPARATION NEAR
 SCHOOL STREET
 LAYOUT PLAN & SECTIONS

SHEET NO. 2 OF 11 SHEETS



SURVEY PLOTTED BY	DATE
PLAN	7/27/57
DRAWN BY	
TRACED BY	
QUANTITIES CHECKED BY	
CHECKED BY	
NO.	

REVISION No July 30, 1959
Revised Footings for Abutts
Ret. Walls
REV. No 7 Aug. 11, 1959
Revised footing for Column #1 & 2



FOUNDATION PLAN

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

STRUCTURE #1

TERRITORIAL HIGHWAY DEPARTMENT

TERRITORY OF HAWAII

NUUANU HIGHWAY

PROJECT NO. BU-061-1(6), UNIT 4

GRADE SEPARATION NEAR

SCHOOL STREET

FOUNDATION PLAN

. S 1 4 6 (2).107 239

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BU-061-1(6)	1958	108	148

REVISION No. 6 July 30, 1959
Revised Footing for Abut. #2

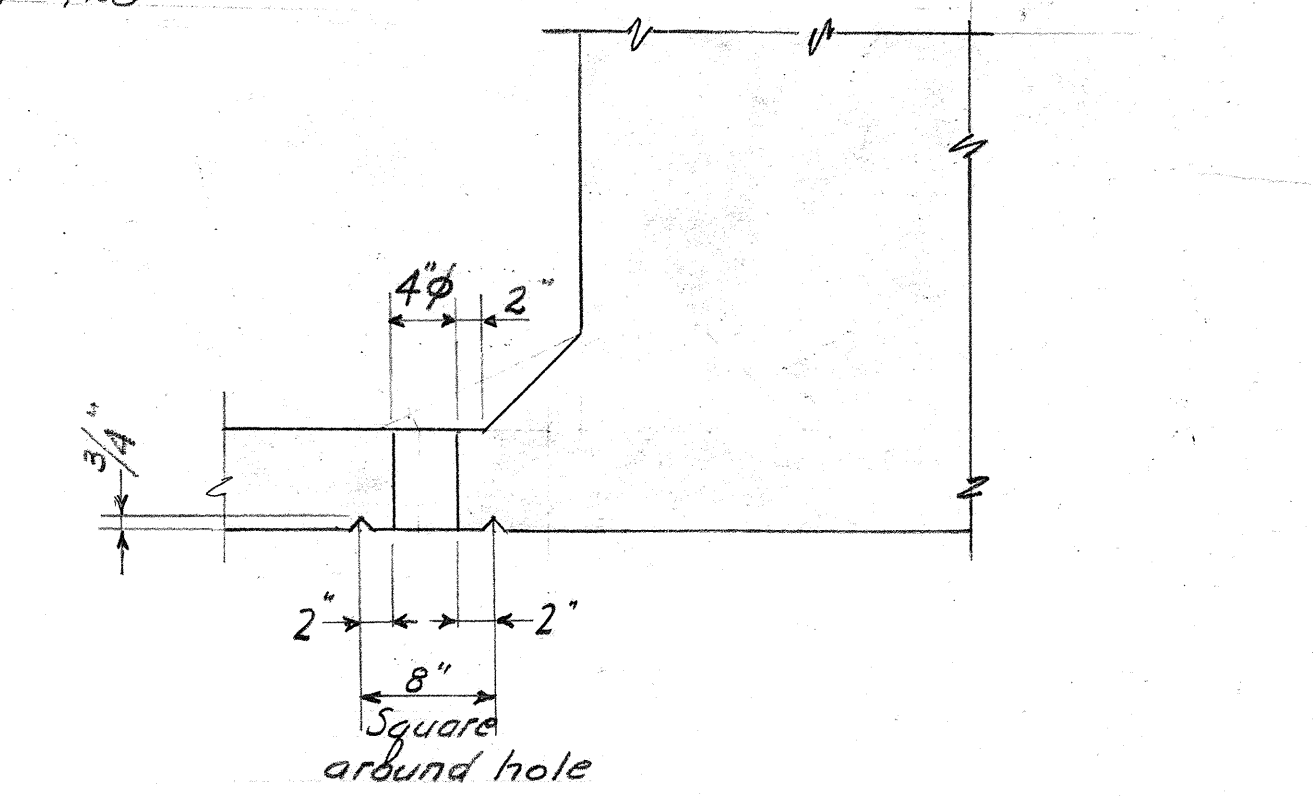
Underpass lighting feeder outlet box for additional detail see Sht. 129 of Lunalilo Frwy.

Note: 15" x 6" Fillet located only in this panel

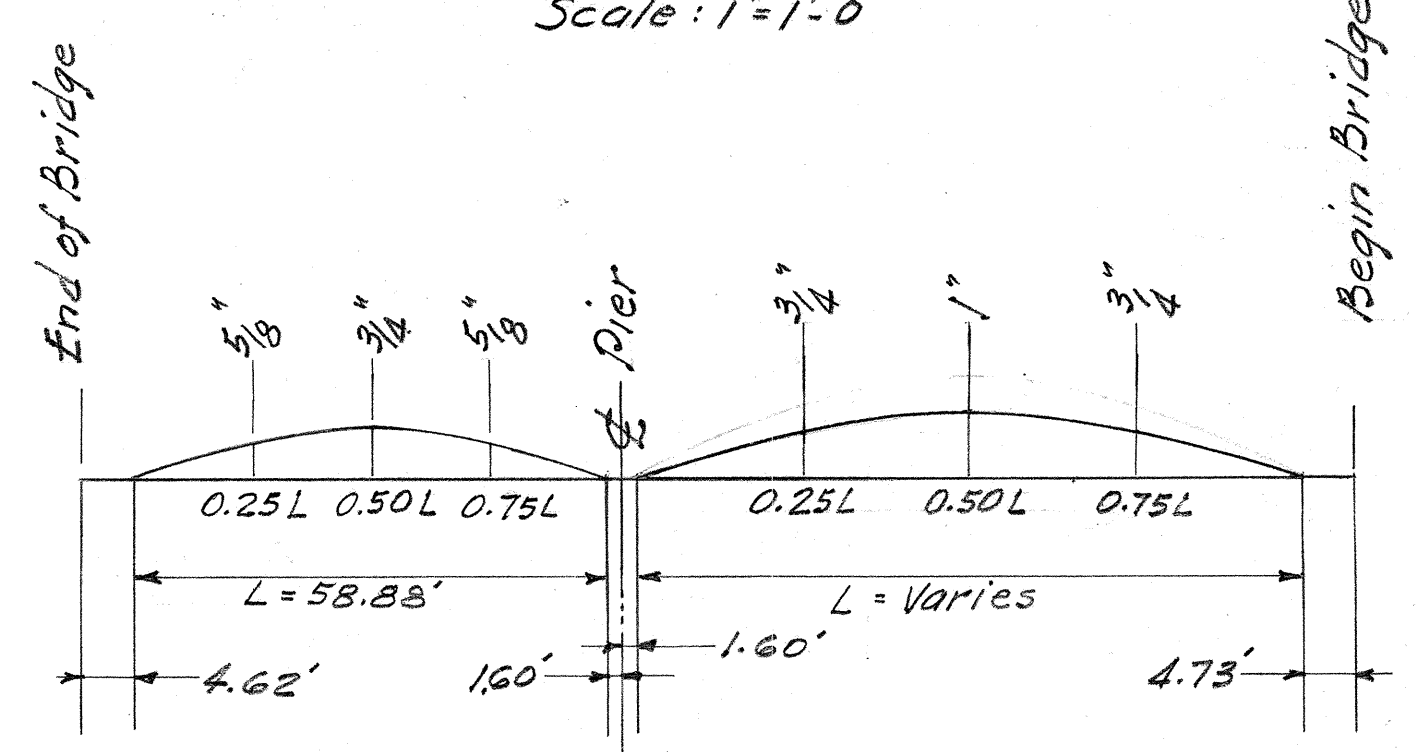


PLAN
Scale: 1/8" = 1'-0"

DETAIL "A"
Scale: 1" = 1'-0"



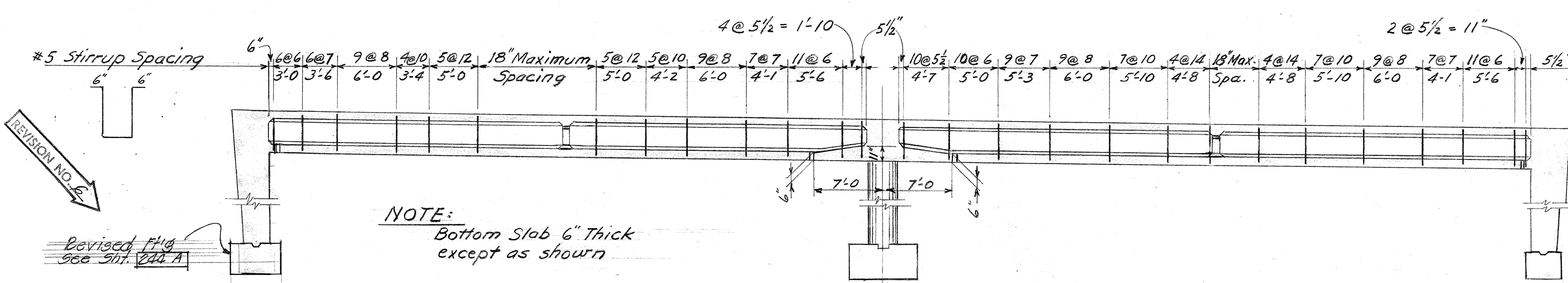
TYPICAL SECTION AT DRAIN
Scale: 1" = 1'-0"



DEAD LOAD CAMBER CURVE

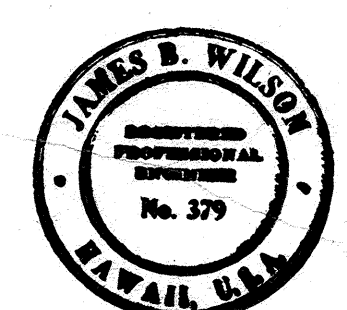
NOTE: This curve shows the dead load camber only and should be increased by the amount of anticipated take up in the false work.

NOTE: For Utility Details see Sheet No. 246



WEB STIRRUP SPACING
Scale: 1/8" = 1'-0"

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES CHECKED BY	
NO.	5-27-57



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REGISTERED ENGINEER
DATE JUL 3 1957

STRUCTURE #1
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
NUUANU HIGHWAY
PROJECT NO. BU-061-1(6), UNIT 4
GRADE SEPARATION NEAR
SCHOOL STREET
DECK FRAMING PLAN

SHEET NO. 5 OF 11 SHEETS

REVISION NO. 5 July 23, 1959
Revised North bridge Abut. reinf.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BU-061-1(6)	1958	109	148

NOTE:
All Laps 5'-0" Long

#11 bars, 44'-0 Long
#11 bars, 34'-0 Long
#11 bars, 25'-0 Long
#11 bars, 15'-0 Long
6#5x7'-9"

#10 bars, 19'-0
#10 bars, 14'-0
#5 Transverse Reinf. @ 7 1/2" Maximum
#5 as shown

#5@18
#5@18
#5@18

REVISION NO. 5

CORNER G

Typical for Exterior Webs South Bridge
MK 11-1
MK 11-2
MK 10-3
MK 10-4
MK 10-5
MK 10-6

Typical for Interior Webs South Bridge
MK 10-5
MK 10-6
MK 10-4
MK 10-3
MK 11-7
MK 10-3
MK 10-4
MK 10-6
MK 10-5

North Bridge
All #11 bars same corresponding location & type as shown except as otherwise noted

REVISION NO. 5

REVISION NO. 5

#10 bars 12'-0" South Bridge
#11 bars 14'-0" North Bridge
#10 bars 18'-0" South Bridge
#11 bars 20'-0" North Bridge

7'-9" Long
#5 E.F.
#5@18
CORNER H

NOTES

- South Bridge shown. North Bridge similar except as shown or noted.
- Top face reinf. shown except as noted. For bottom face longitudinal steel see Section on Sheet No. 243
- Dashed lines indicate outline of Webs

Lunalilo Freeway

PLAN-TOP SLAB REINFORCEMENT

Scale Longitudinal: 3/16" = 1'-0
" Transverse: 3/8" = 1'-0

Web No. 1
MK 11-1
MK 11-2
MK 10-8
MK 10-9
MK 10-8
MK 10-9
MK 10-10
MK 10-11
MK 10-10
MK 10-11

CORNER B
Typical for Exterior Webs

Web No. 2
MK 10-10
MK 10-11
MK 10-10
MK 10-9
MK 10-8
MK 11-7

Web No. 3
MK 11-7
MK 10-8
MK 10-9
MK 10-10
MK 10-11
MK 10-10
7'-9" Long
MK 10
#5 E.F.
7#5 as shown
CORNER A

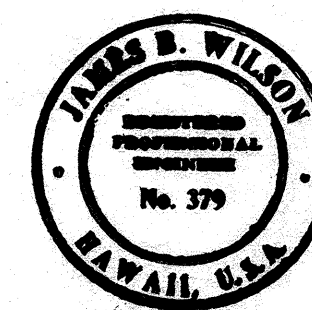
Web No. 4
MK 10-9
MK 10-11
MK 10-11
#10 Top & #5 Bot. Face, Additional

Revised 8/4/50

STRUCTURE #1
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REGISTERED ENGINEER
DATE JUL 3 1957

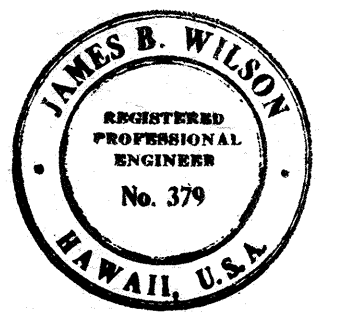
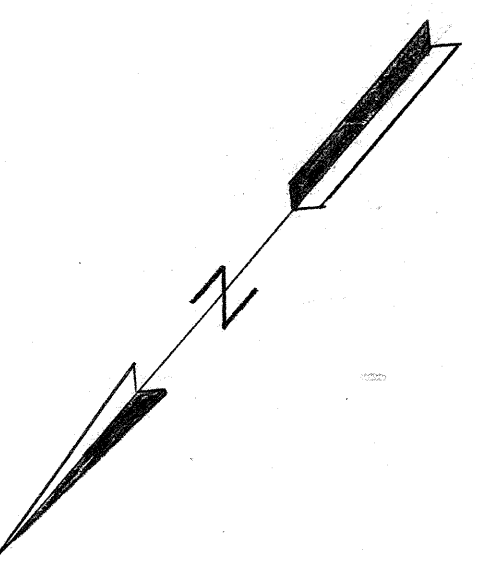
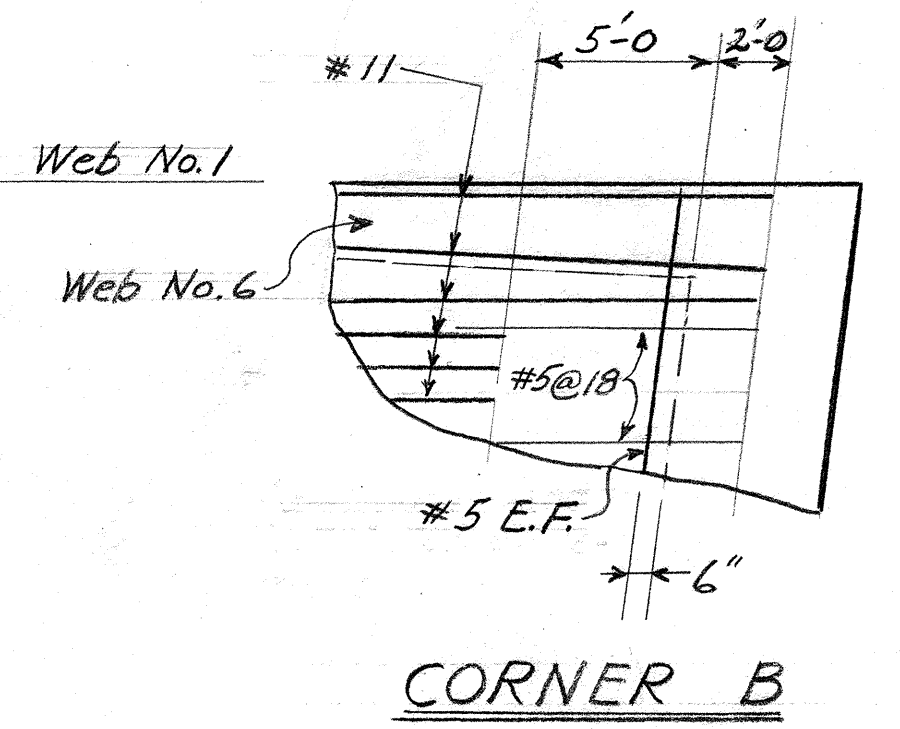
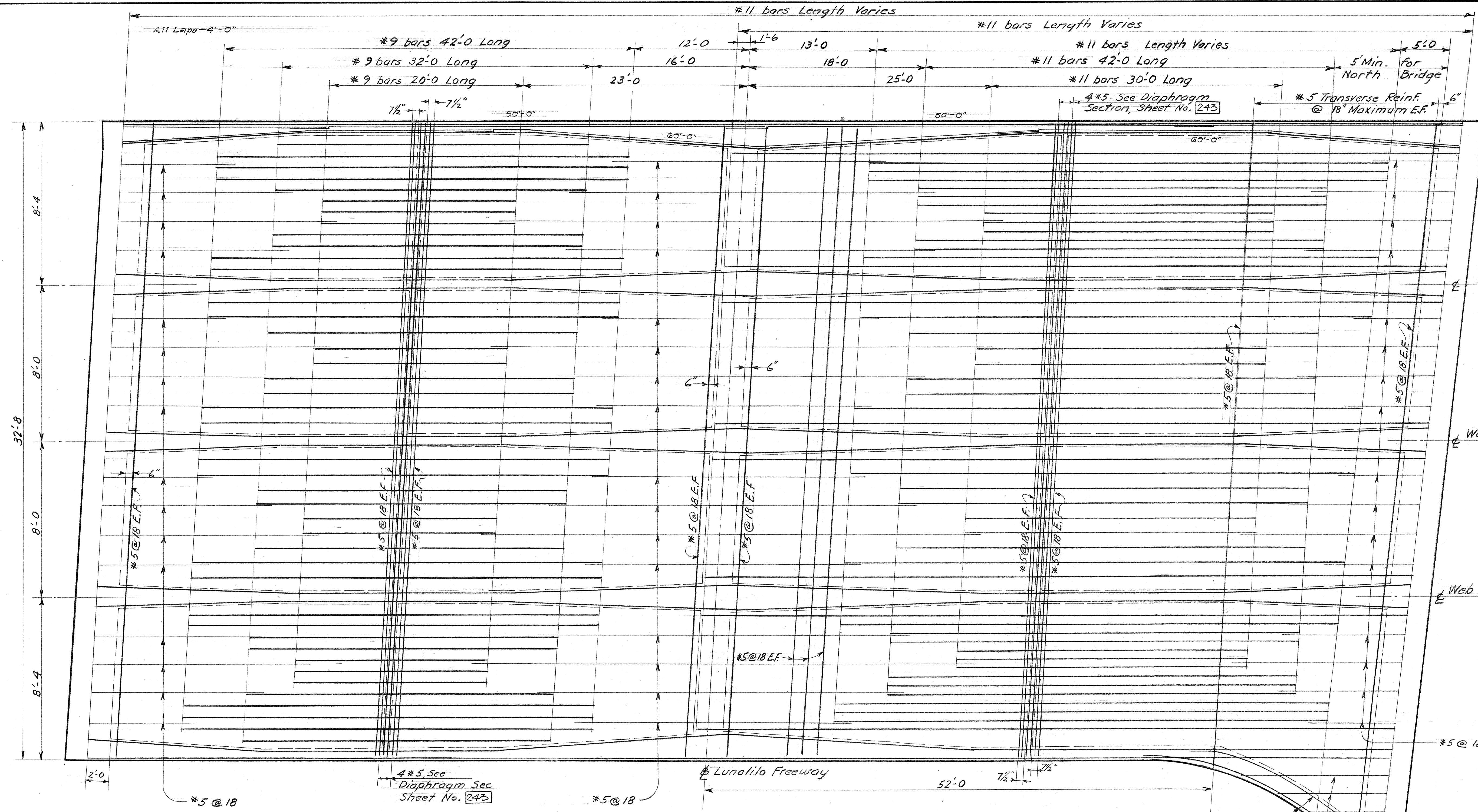
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
NUUANU HIGHWAY
PROJECT NO. BU-061-1(6) UNIT 4
GRADE SEPARATION NEAR
SCHOOL STREET
TOP SLAB REINFORCEMENT

SHEET NO. 6 OF 11 SHEETS



. S 1 4 6 (2). 109 241

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BU-061-1(6)	1958	110	148



Revised 8/4/59

STRUCTURE #1
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DATE JUL 3 1957

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
NUUANU HIGHWAY
PROJECT NO. BU-061-1(6), UNIT 4
GRADE SEPARATION NEAR
SCHOOL STREET
BOTTOM SLAB REINFORCEMENT

SHEET NO. 7 OF 11 SHEETS

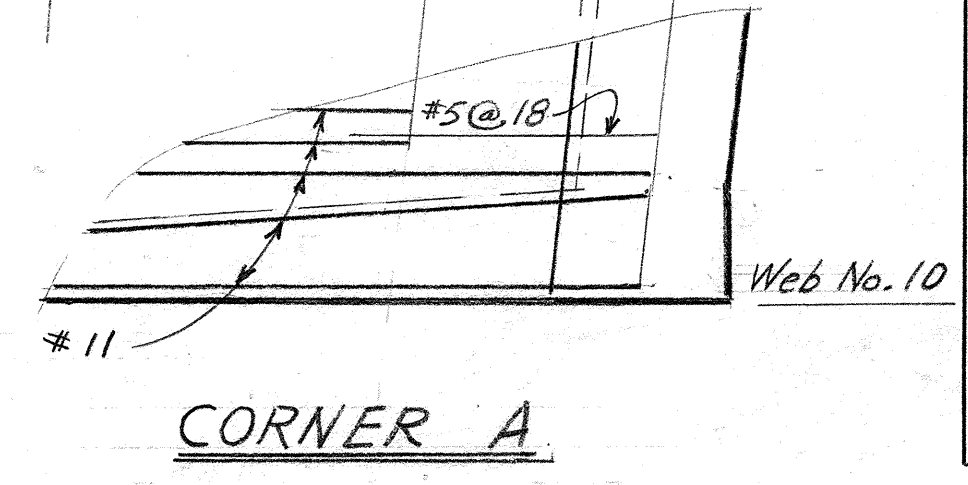
.S 146 (2).110 242

NOTES:

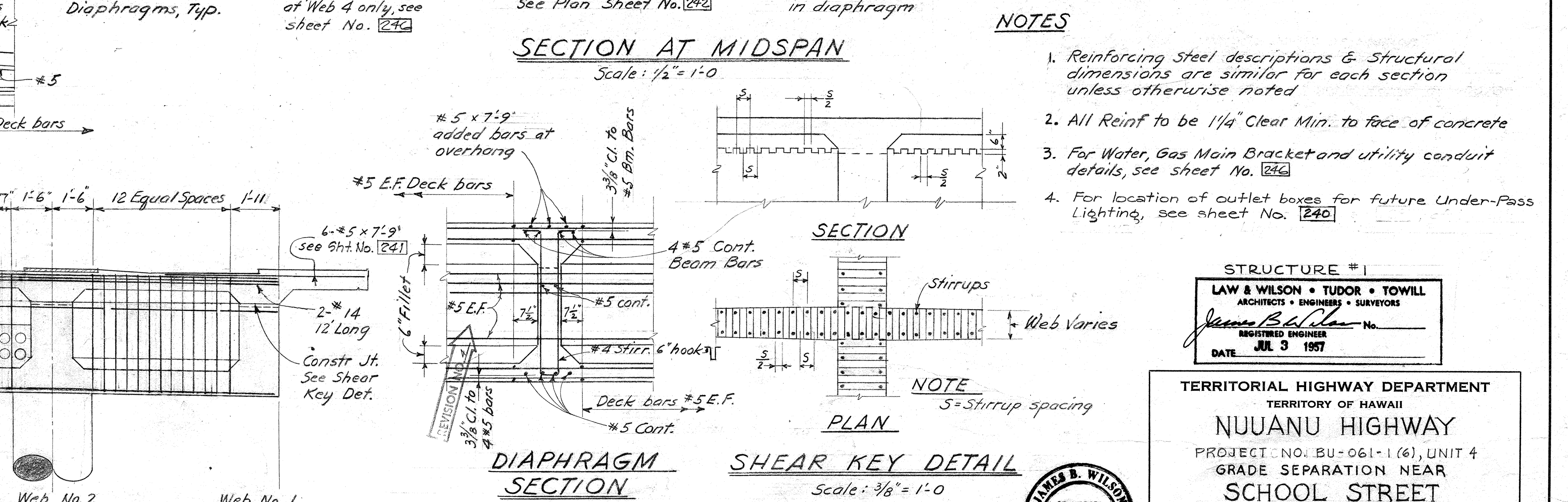
1. South Bridge shown. North Bridge similar except as shown
2. Bottom face reinforcement shown except as noted. For top face longitudinal steel see Sections on Sh. No. 243
3. Dashed lines indicate outline at Webs

PLAN - BOTTOM SLAB REINFORCEMENT

Scale: Longitudinal $\frac{3}{16}'' = 1'-0''$
Transverse $\frac{3}{16}'' = 1'-0''$



DATE	DESIGNED BY	TRACED BY	QUANTITIES BY	CHECKED BY
5-27-57	J.A.T.	M.K.	J.A.T.	J.A.T.



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
NUUANU HIGHWAY
PROJECT NO. BU-061-1(6), UNIT 4
GRADE SEPARATION NEAR
SCHOOL STREET
DECK SECTIONS

A circular professional engineer seal. The outer ring contains the text "JAMES B. WILSON" at the top and "HAWAII, U.S.A." at the bottom. The inner circle contains the text "REGISTERED PROFESSIONAL ENGINEER" and "No. 379".

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BU-061-1(6)	1958	112	148

REVISION NO. 5 JULY 28, 1959
Revised North Bridge Abut. reinf.
REV. NO. 7 AUG. 11, 1959
Revised footing for Column #14 #2

RETAINING WALL No. 4
Extend #4@18 to edge of footing (Typ)
"b" bars @ normal wall spacing (Typical)

RETAINING WALL No. 2

1/2" Premoulded Jt. Filler (Vertical)

Note: Use 1/2" Premoulded Joint Filler between abutment walls and concrete gutters.

Bottom of Roadbed

Filter Material Continuous Horiz.

4" Tile Drains @ 10'-0" o.c. Place at top of shoulder

Impervious Material

Excavate & Pour to Neat Line

1'-0" min in solid rock

DRAINAGE DETAIL

No Scale

Note: Rubber waterstop continuous from top of footing to 3" below top of wall.

6" 1/2" Premoulded Joint Filler

3/4" Dia. Rubber Waterstop

1'-3" Front face

1" chamfer

WALL JOINT DETAIL

No Scale

SECTION F-F

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

SECTION A-A

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

SECTION B-B

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

SECTION G-G

No Scale

KEY DETAIL

Scale: 1" = 1'-0"

SECTION C-C

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

SECTION D-D

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

SECTION E-E

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

HINGE DETAIL

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

TERRITORIAL HIGHWAY DEPARTMENT

TERRITORY OF HAWAII

NUUANU HIGHWAY

PROJECT NO. BU-061-1(6), UNIT 4

GRADE SEPARATION NEAR

SCHOOL STREET

FOOTING PLAN & ABUTMENT WALLS

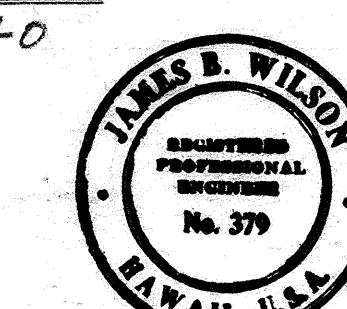
SHEET NO. 9 OF 11 SHEETS

8146 (2).112 244

REVISED TRACING - JULY 28, 1959 - AUG. 11, 1959

DESIGNED BY	DATE
TRACED BY	
QUANTITIES BY	
CHECKED BY	
NO.	3-22-52

- NOTES:
- 1- For further description of MK 11-1, 2, 7 and MK 10-3 to MK 10-11, See Sheet No. 241
 - 2- All wall reinforcement 2" clear (min.) to face of concrete
 - 3- All footings shall be excavated and poured to neat lines



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James B. Wilson
REGISTERED ENGINEER
DATE JUL 8 1957

REVISION NO. 3
All #11 bars same corresponding location & type as shown above. See Sht. 241

REVISION NO. 2
Revised Flg. See Sht. 241

FOOTING PLAN

Scale: 3/16" = 1'-0"

RETAINING WALL No. 1

RETAINING WALL No. 3

NUUANU HIGHWAY

RETAINING WALL No. 5

RETAINING WALL No. 6

RETAINING WALL No. 2

RETAINING WALL No. 4

RETAINING WALL No. 1

RETAINING WALL No. 3

RETAINING WALL No. 5

RETAINING WALL No. 6

RETAINING WALL No. 7

RETAINING WALL No. 8

RETAINING WALL No. 9

RETAINING WALL No. 10

RETAINING WALL No. 11

RETAINING WALL No. 12

RETAINING WALL No. 13

RETAINING WALL No. 14

RETAINING WALL No. 15

RETAINING WALL No. 16

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RETAINING WALL No. 186

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RETAINING WALL No. 188

RETAINING WALL No. 189

RETAINING WALL No. 190

RETAINING WALL No. 191

RETAINING WALL No. 192

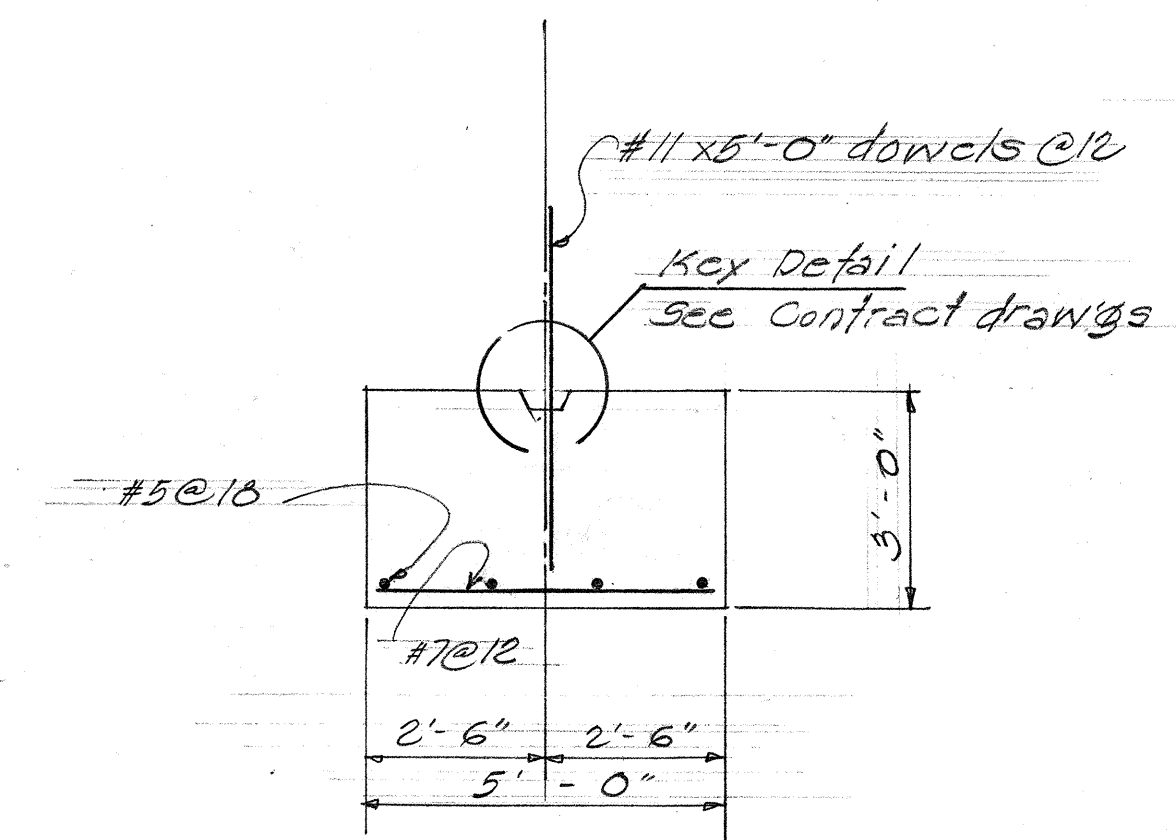
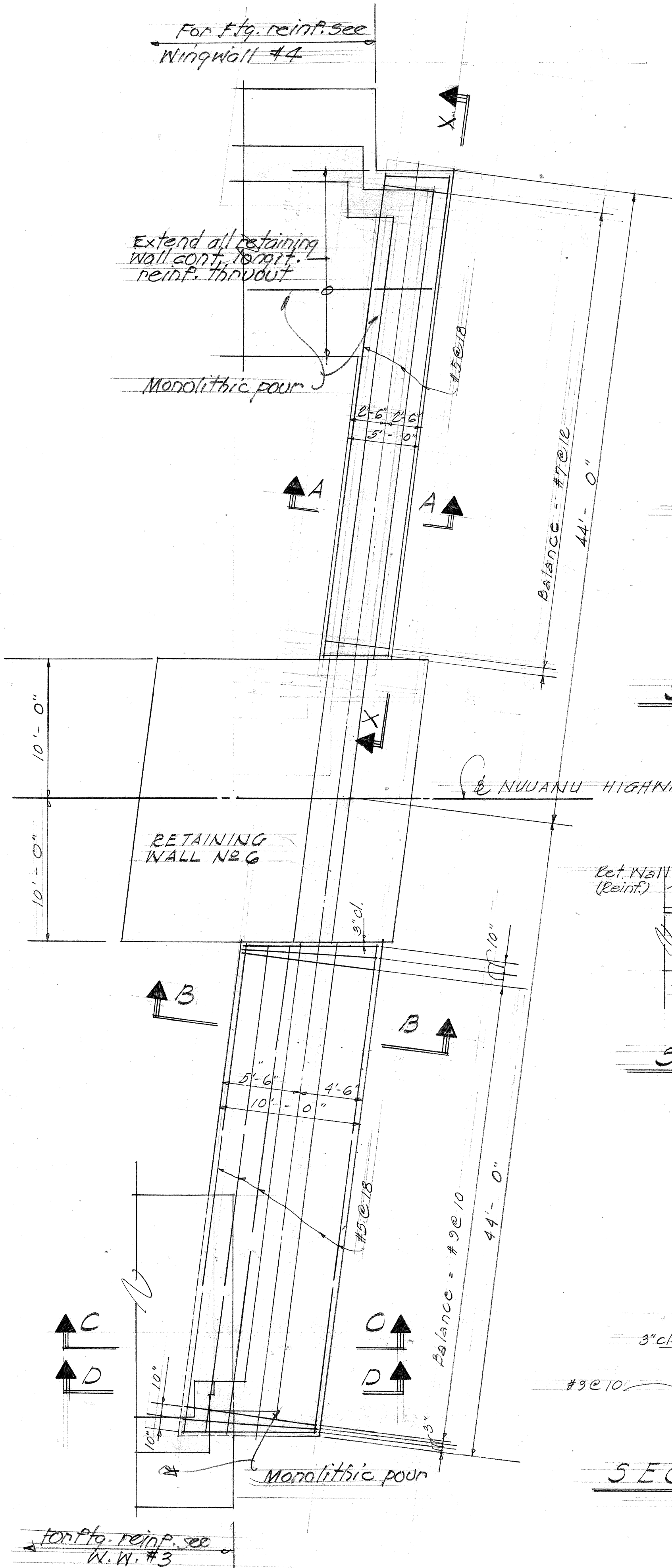
RETAINING WALL No. 193

RETAINING WALL No. 194

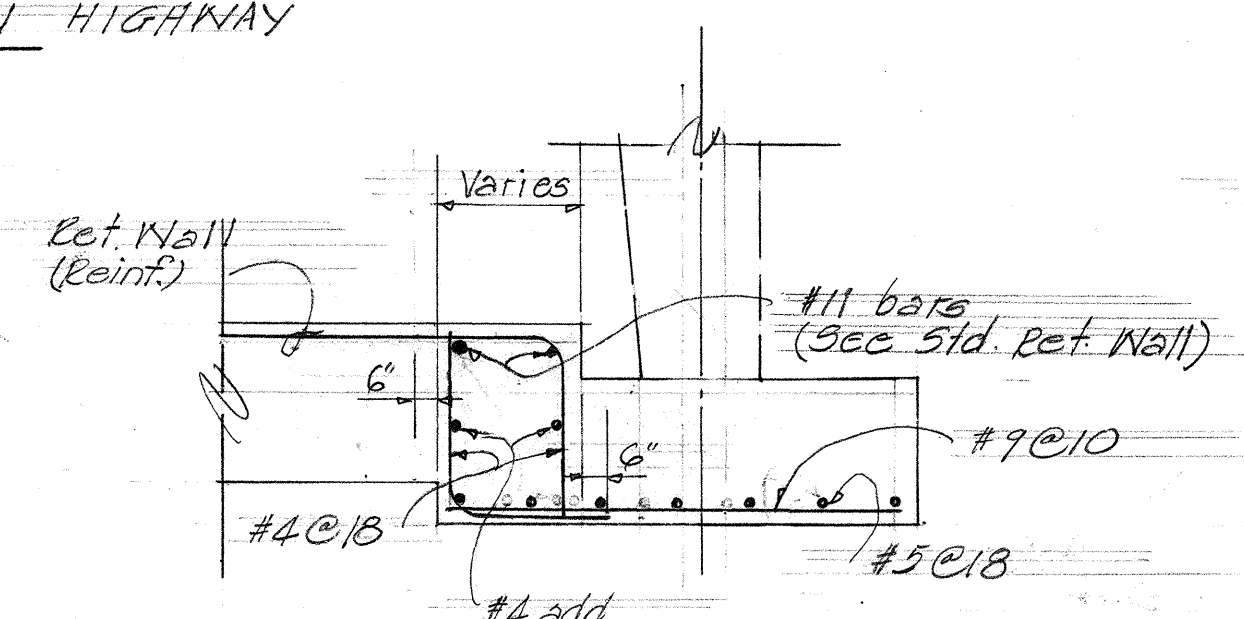
RETAINING WALL No. 195

RETAINING WALL No. 196

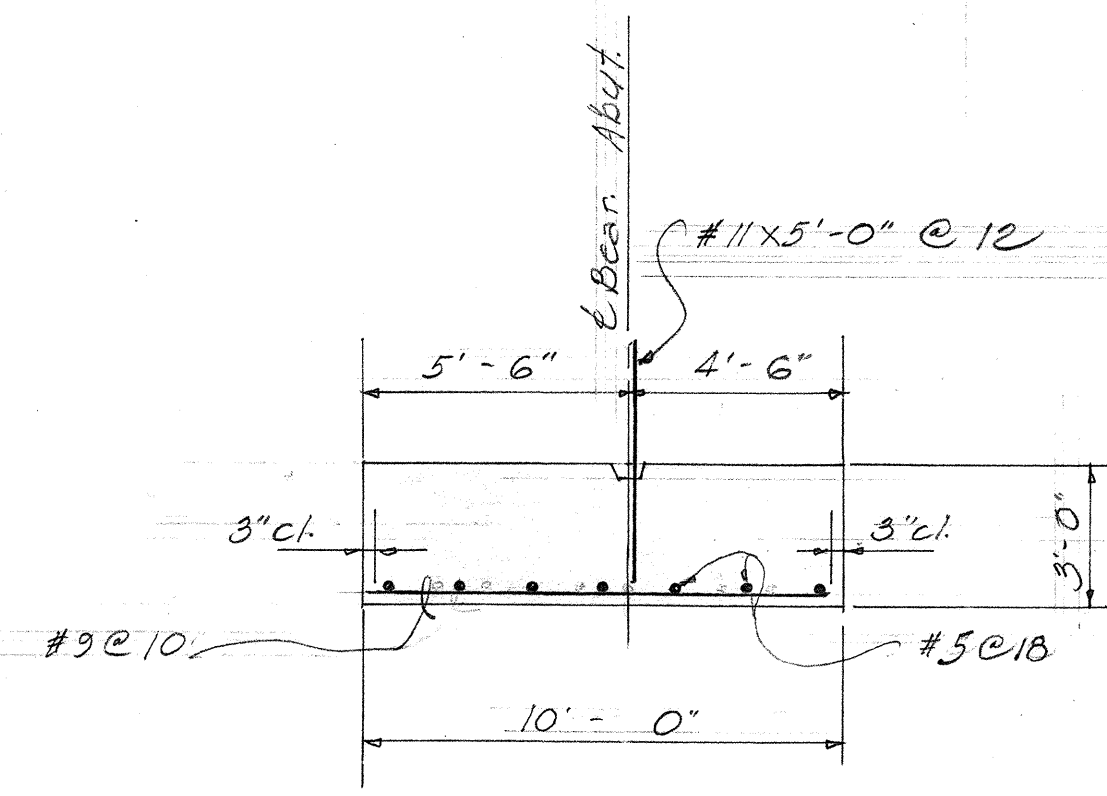
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS



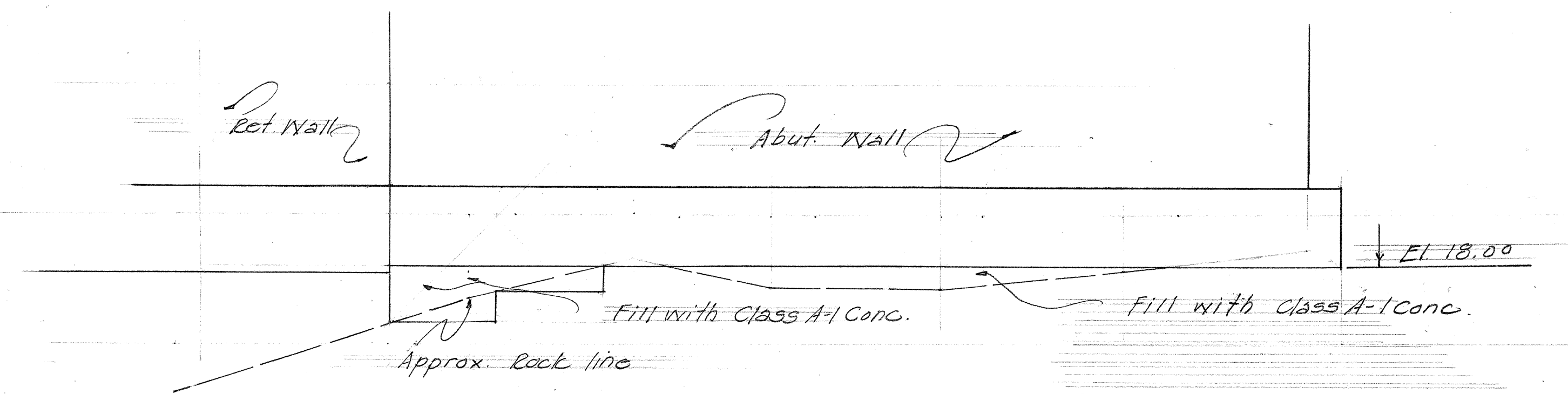
SECTION "A-A"
Scale: 3/8" = 1'-0"



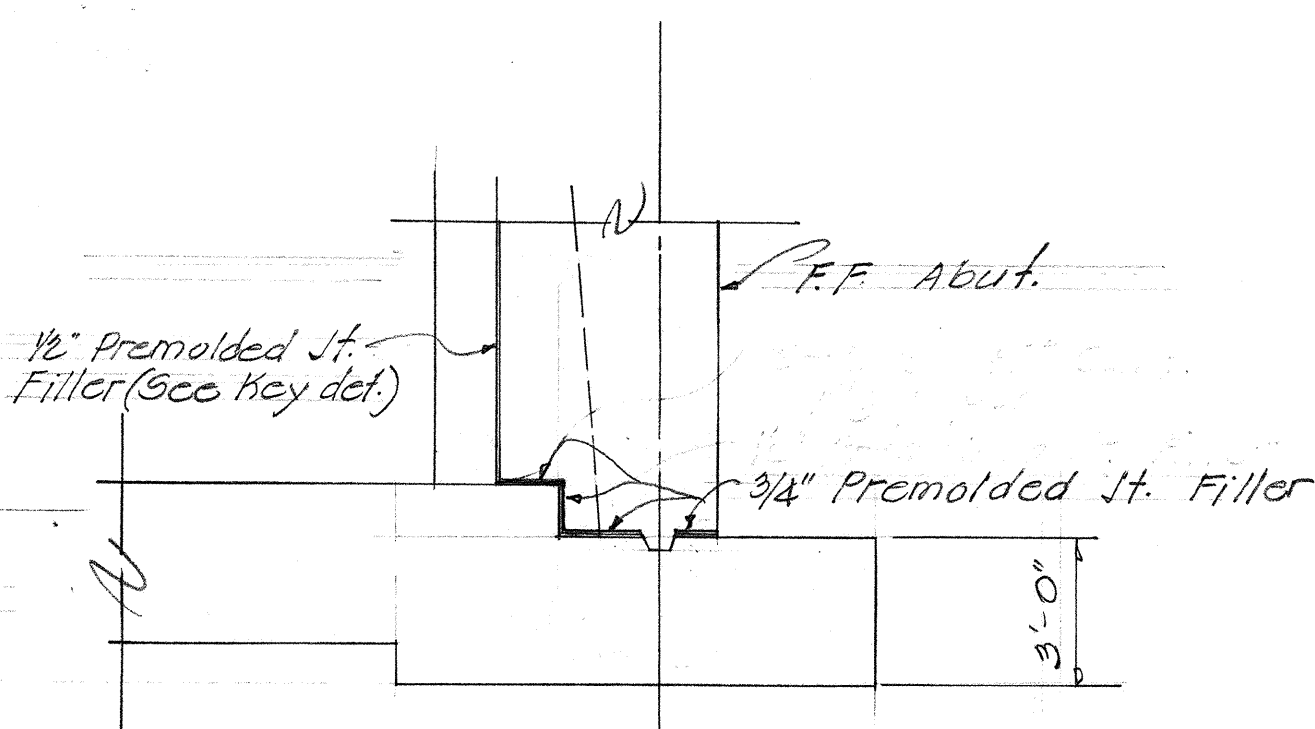
SECTION "C-C"
Scale: 1/4" = 1'-0"



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



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



SECTION "D-D"

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

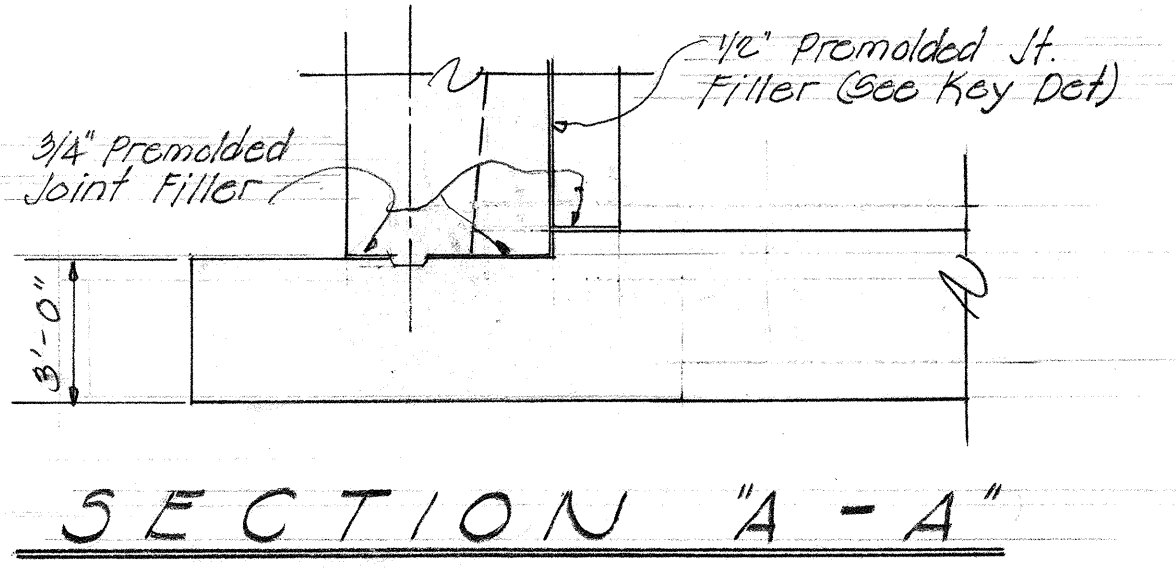
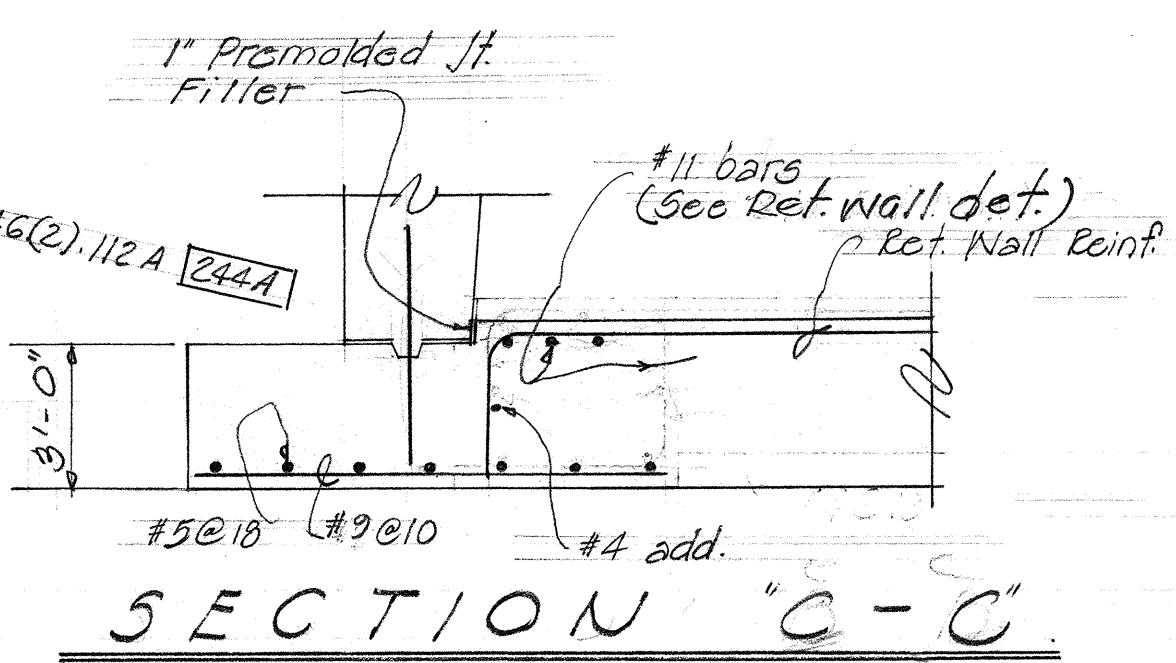
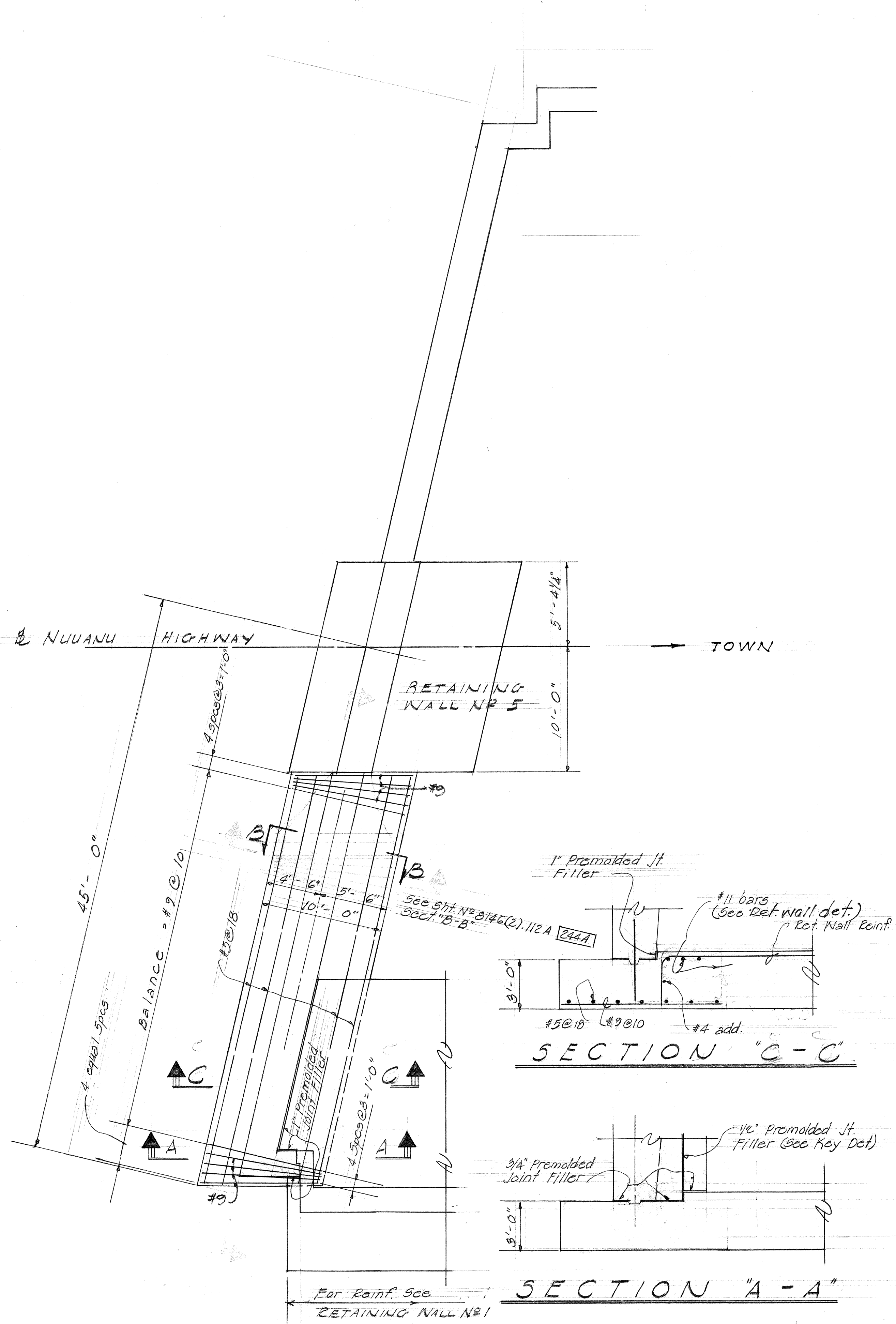
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
NUUANU HIGHWAY
PROJECT NO. BU-061-(16), UNIT 4
GRADE SEPARATION NEAR SCHOOL STREET
REVISED PART FOOTING PLAN & DETAILS - ABUTMENT NO. 2

SHEET NO. OF SHEETS

8146 (2).102A 244A

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

SURVEY PLOTTED BY	DATE
ORIGINAL PLAN	
TRACED BY	
NOTE BOOK	
QUANTITIES CHECKED BY	
CHECKED BY	



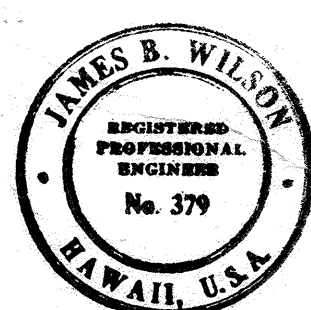
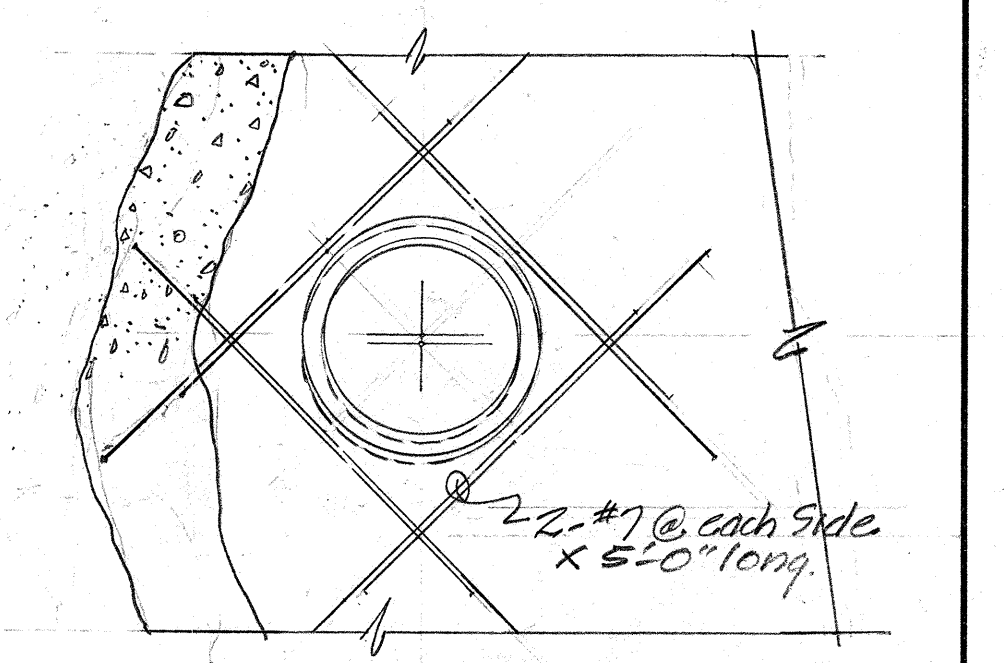
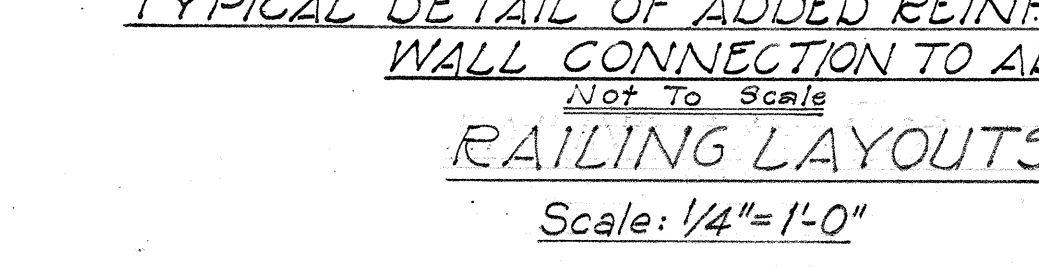
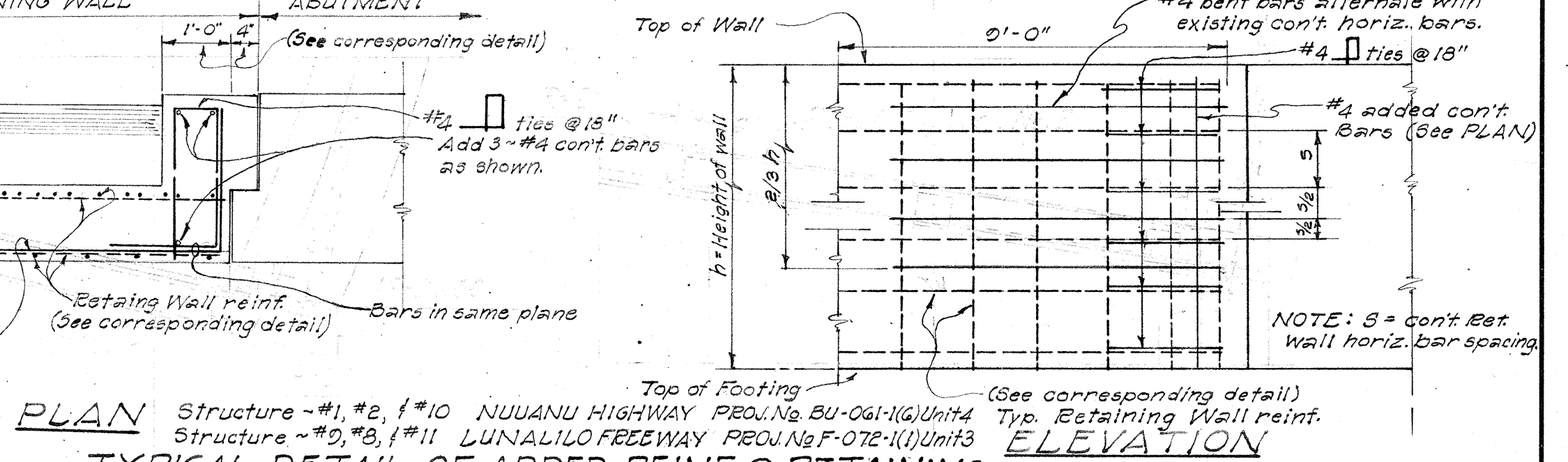
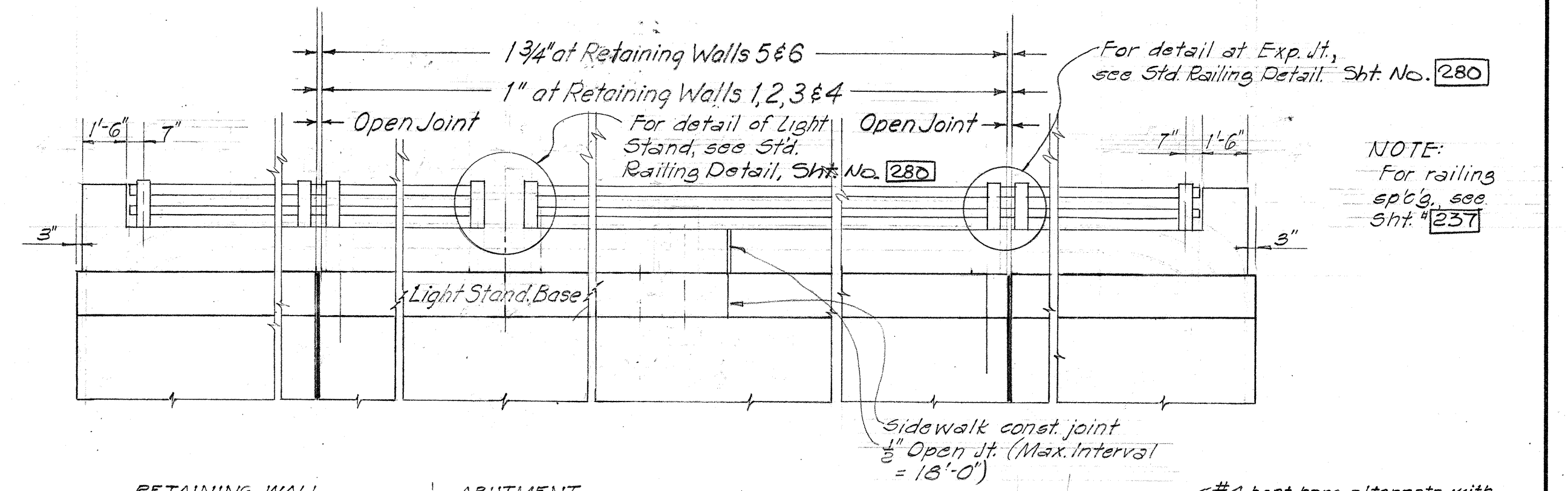
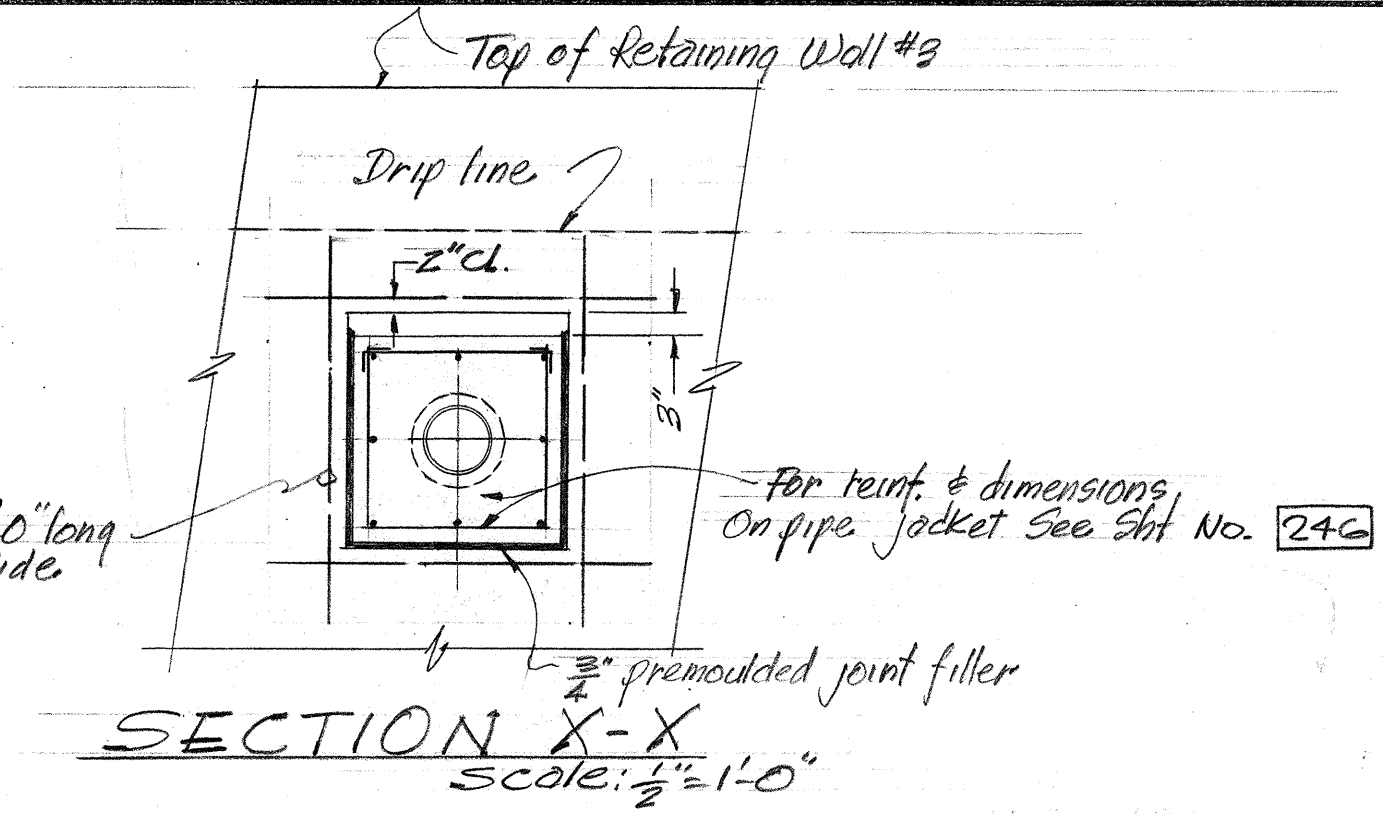
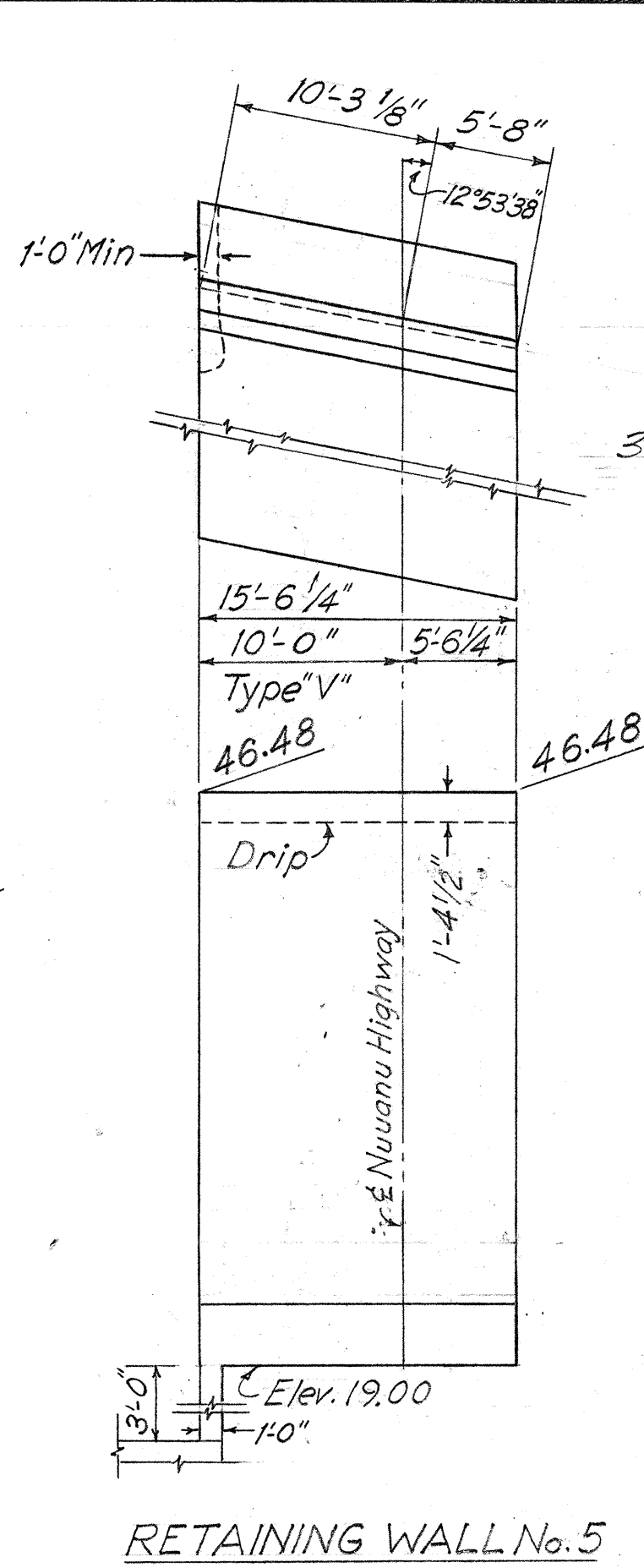
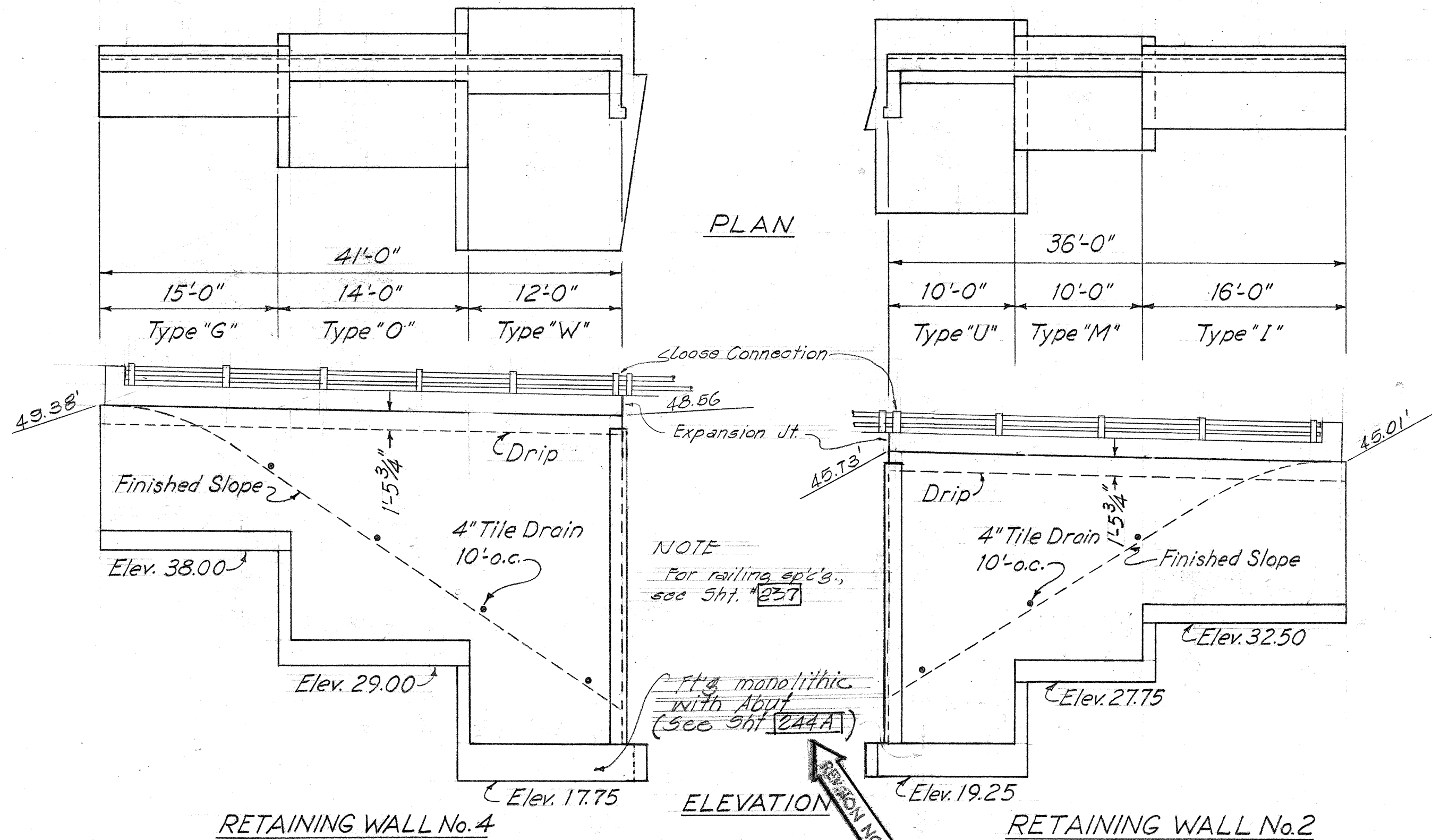
TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
 NUUANU HIGHWAY
 PROJECT NO. BU.061-1(6) UNIT 4
 GRADE SEPARATION NEAR SCHOOL STREET
 REVISED PART FOOTING PLAN
 & DETAILS. ABUTMENT NO. 1

SHEET NO. OF SHEETS

8146(2).112B 2440

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BU-061-1(6) UNIT 4	1958	113	148

REVISION No. 6 July 30, 1959
Revised Footing for Abutments & Ret. Walls.
as req. See Sht. 244A & 244B



LAW & WILSON • TUDOR • TOWILL
ARCHITECTS • ENGINEERS • SURVEYORS
James B. Wilson
REGISTERED ENGINEER
DATE JUL 3 1957

STRUCTURE #1
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
NUUANU HIGHWAY
PROJECT NO. BU-061-1(6) UNIT 4
GRADE SEPARATION NEAR
SCHOOL STREET
RETAINING WALL & RAILING LAYOUTS

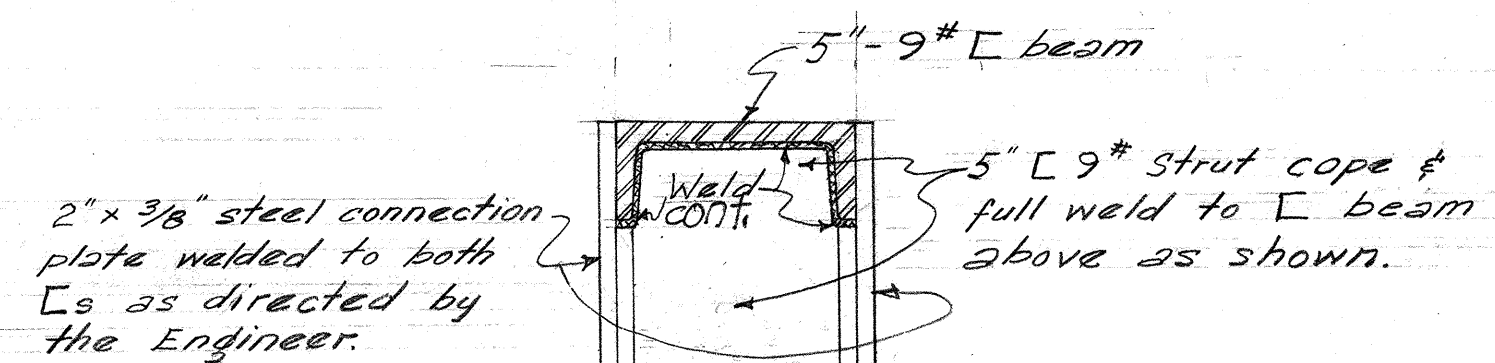
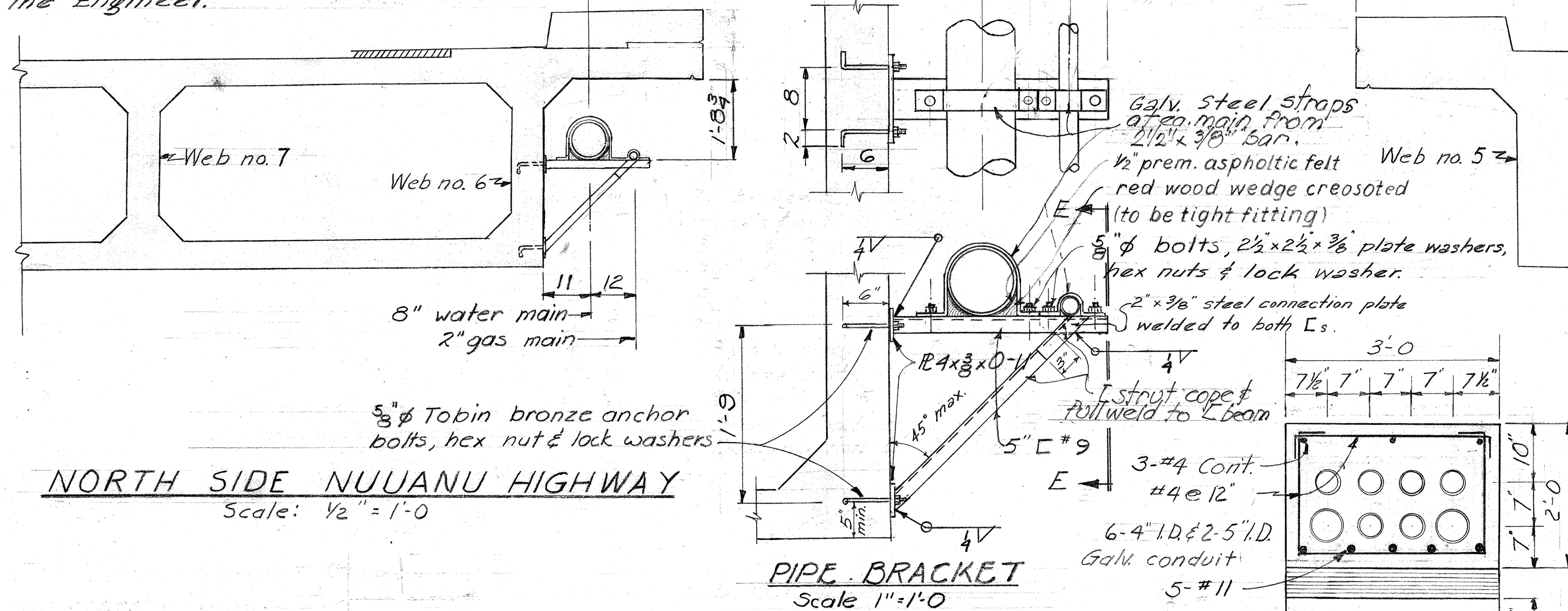
SHEET No. 10 OF 11 SHEETS

.S146 (2).113 245

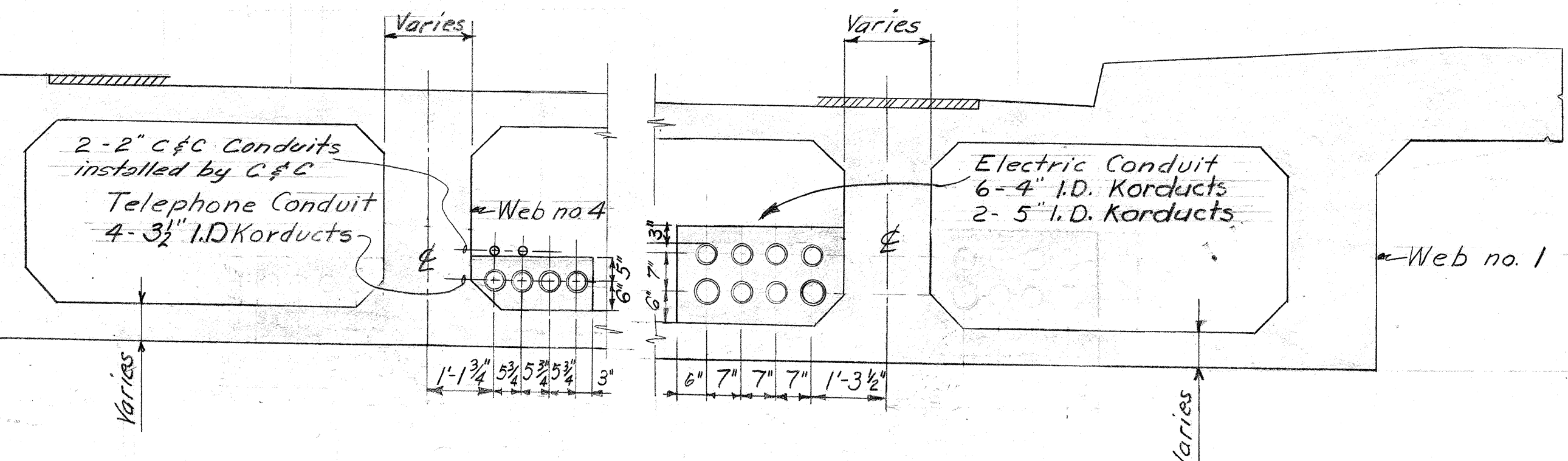
(REVISED TRACING - JULY 30, 1959)

SURVEY PLOTTED BY	DATE
DESIGNED BY	
PLAN	
TRACED BY	
QUANTITIES BY	
NOTE BOOK	
NO.	377-53

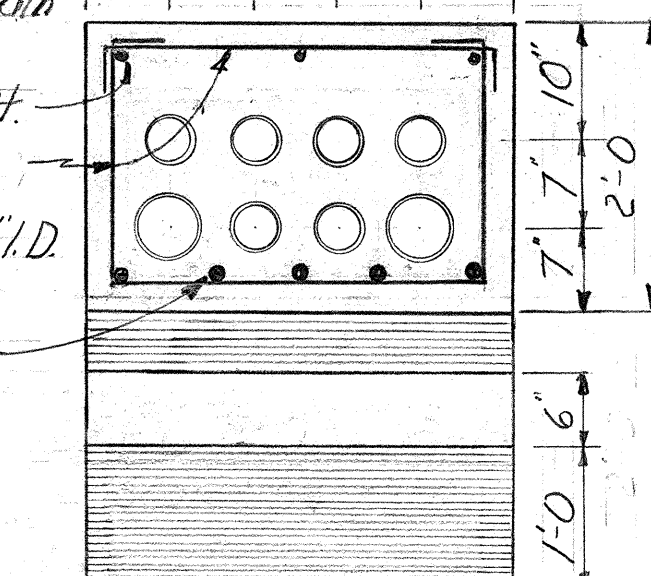
Note:
All exposed metal surfaces to receive one coat of red oxide paint, and a second coat of high grade asphaltum paint approved by Engineer.
All welding for structural steel connections to be preformed in accordance to standard practice and as directed by the Engineer.



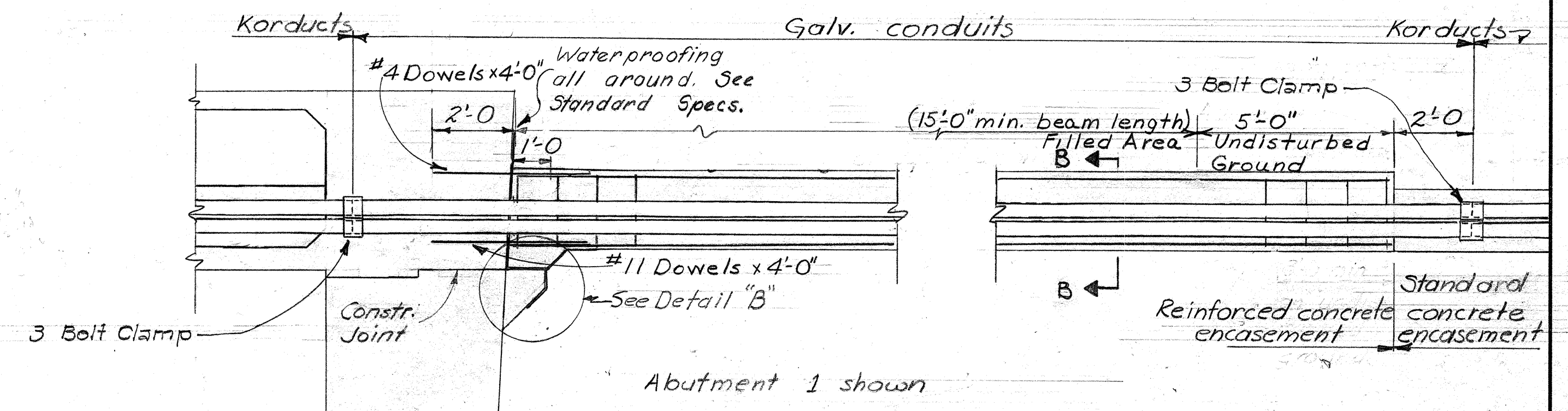
SECTION "E-E"



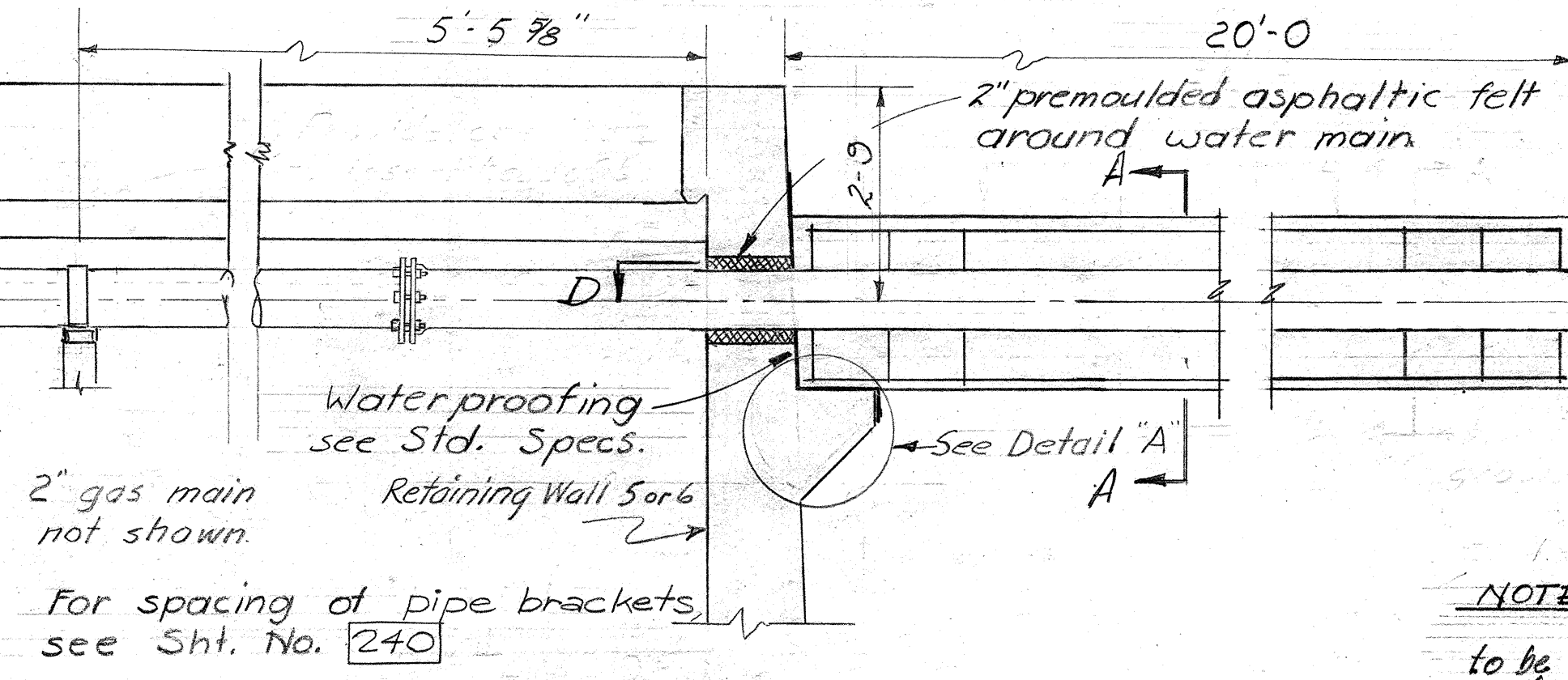
SOUTH SIDE NUUANU HIGHWAY
Scale: $\frac{1}{2}" = 1'-0"$



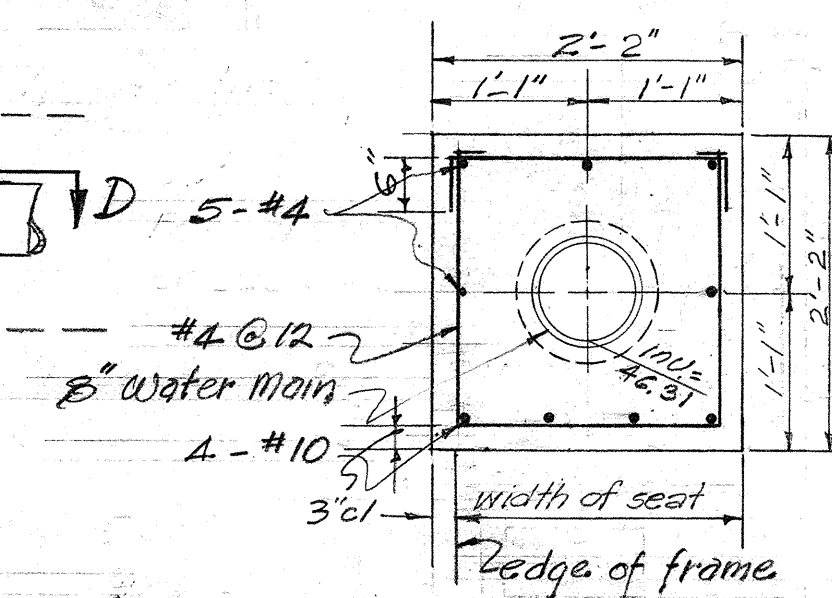
SECTION B-B
scale: $\frac{3}{8}'' = 1'-0''$



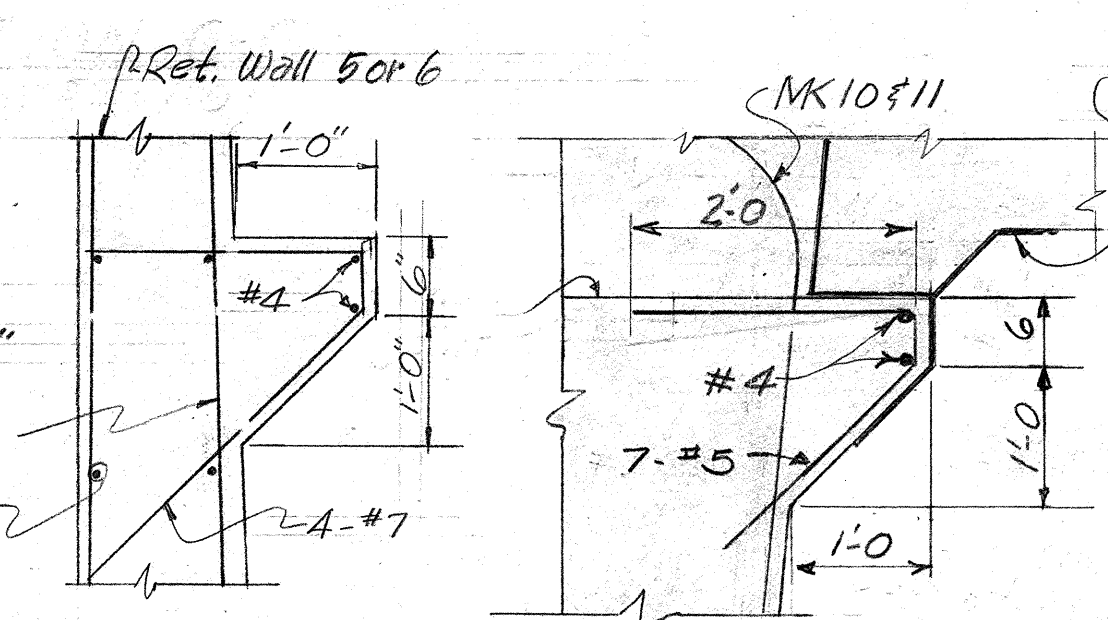
ELECTRICAL CONDUIT ENCASEMENT
2" and 3" conduits Scale: $\frac{3}{8}" = 1'-0"$



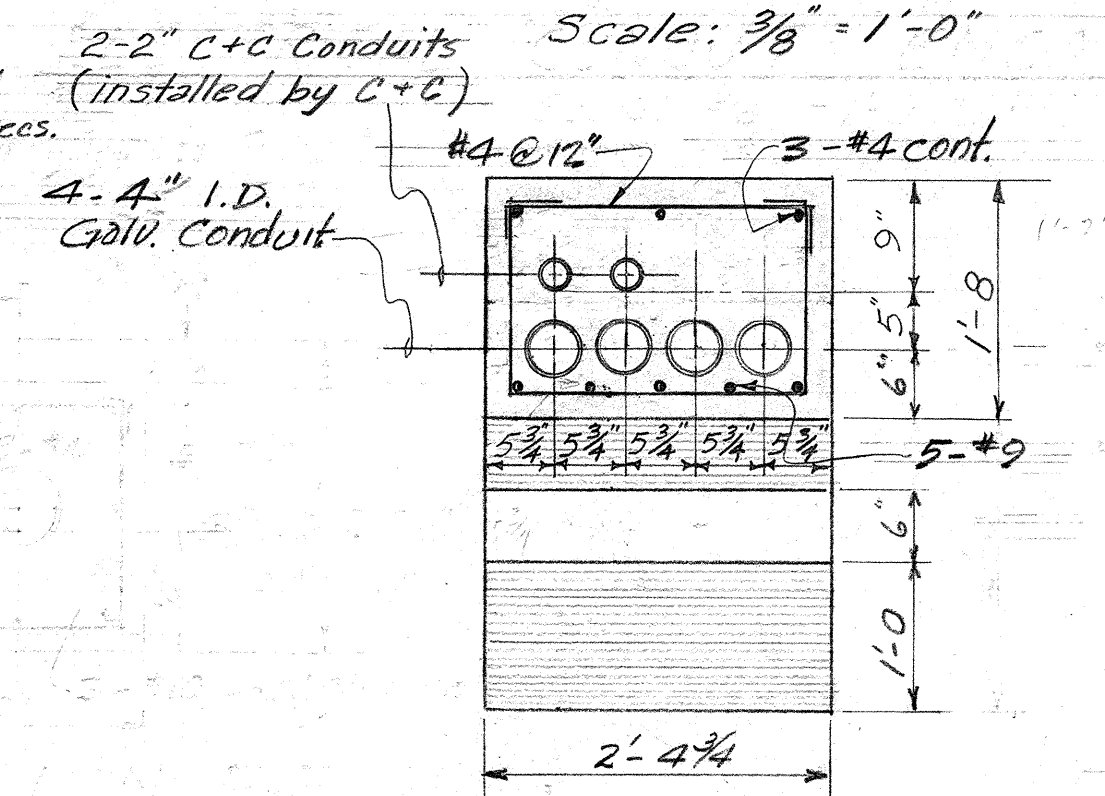
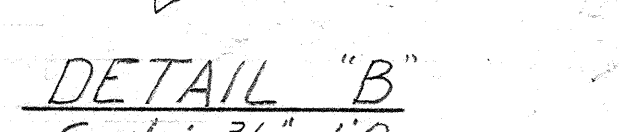
WATER MAIN ENCASEMENT
Scale: $\frac{1}{2}" = 1'-0"$



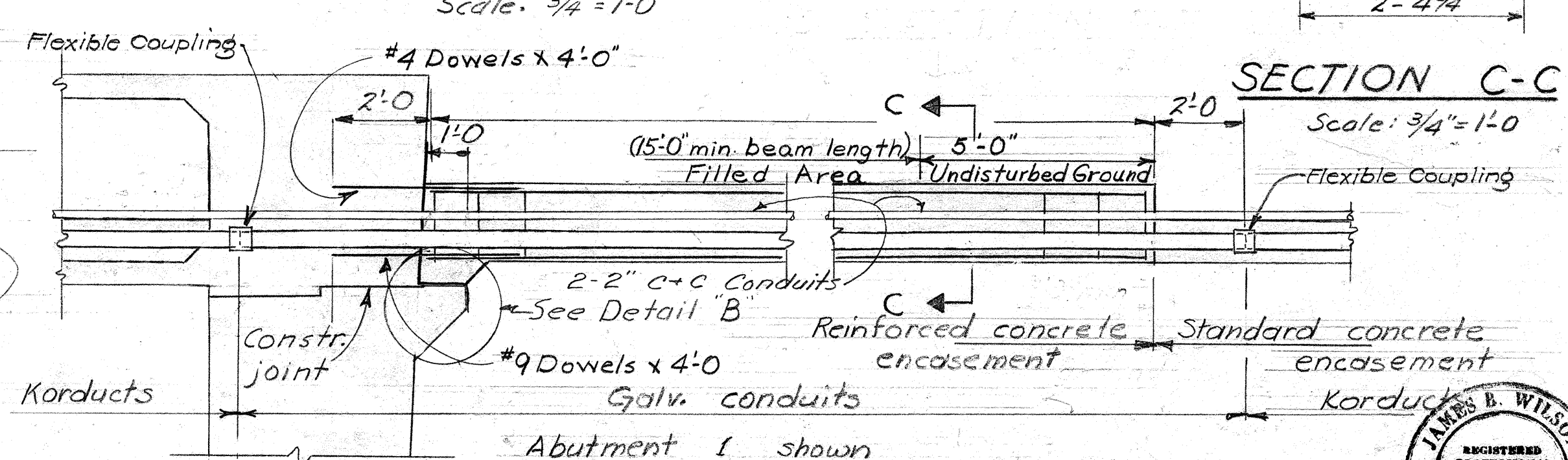
SECTION A-A
Scale: $\frac{3}{4}'' = 1'-0$



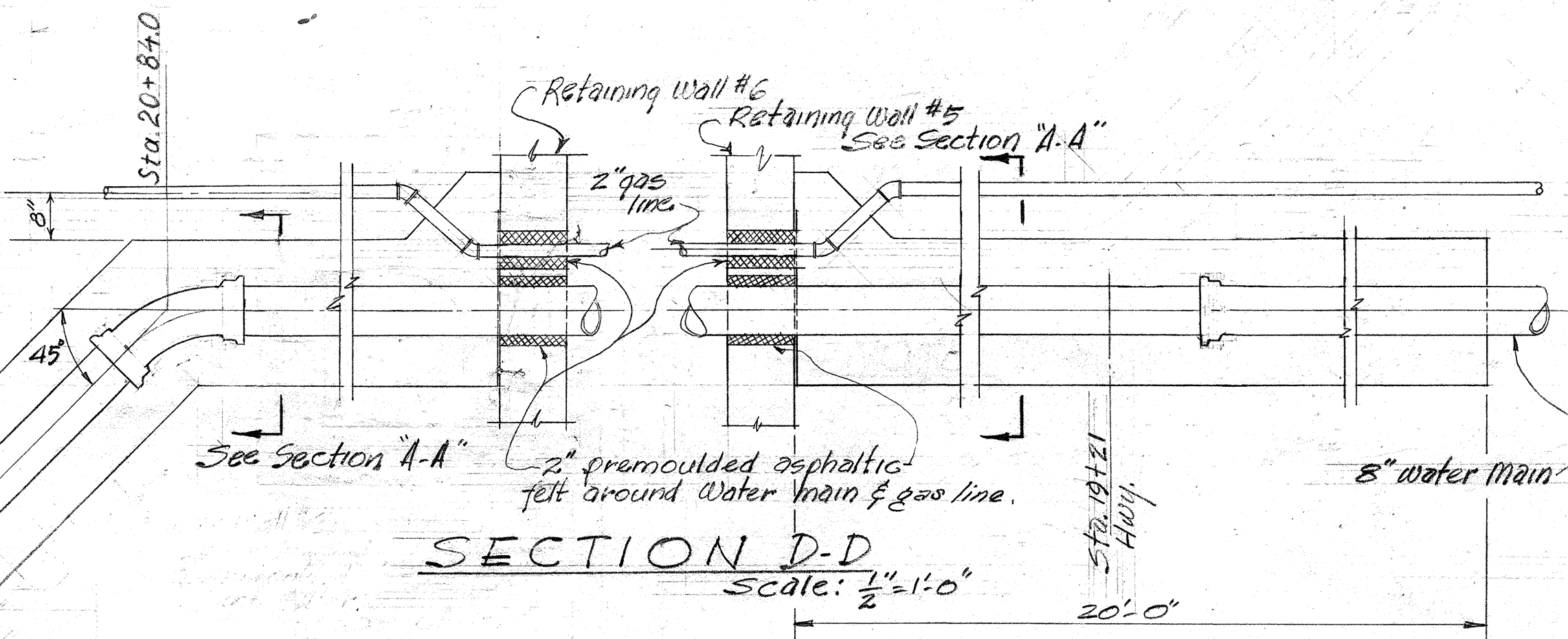
DETAIL "A"
Scale: $\frac{3}{4}'' = 1'-0''$



SECTION C-C



TELEPHONE CONDUIT ENCASEMENT



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

NOTE: All reinforcements to be 2" Clear (min) to face of concrete.

STRUCTURE # 1

LAW & WILSON • TUDOR • TOWILL
ARCHITECTS • ENGINEERS • SURVEYORS

James B. Wilson No. _____
REGISTERED ENGINEER

DATE JUL 3 1957

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
NUUANU HIGHWAY
PROJECT NO. BU-061-1(6), UNIT 4
GRADE SEPARATION NEAR
SCHOOL STREET
UTILITY DETAILS

SHEET No. 11 OF 11 SHEETS

ALL U.S. SHEET NO. 11 OF 11 SHEETS
. S 1 4 6 (2). 114 246

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DESIGNED BY <u>W.C.R.</u>	"
	DRAWN BY <u>W.C.R.</u>	"
	TRACED BY _____	"
	QUANTITIES BY _____	"
NOTE BOOK	QUANTITIES CHECKED BY _____	"
No. _____	CHECKED BY <u>P.E.R.</u>	" <u>5-2-57</u>