

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	5	1960	14	176

CURVE DATA

	3-CC	FO-1	KU-1	KU-2	KU-3	KU-5
Δ	12°40'50"	9°57'53"	77°34'	25°08'36"	75°38'57"	27°31'18"
R	120'	300'	50'	66'	38'	56'
T	13.33'	26.18'	40.18'	14.72'	29.50'	13.71'
L	26.56'	52.18'	67.02'	28.96'	50.17'	26.90'
KU-6	MA-1	MA-2	MA-3	MA-4	TL-2	
Δ	26°36'54"	4°24'35"	57°56'02"	55°07'48"	27°31'35"	56°46'41"
R	69.92'	40'	20'	25'	25'	45'
T	16.54'	15.12'	11.07'	12.50'	6.12'	24.32'
L	32.48'	28.91'	20.22'	23.18'	12.01'	44.59'

BEG. PROJ. BU-061-1(7)
UNIT 5
STA. 34 + 96.47

END PROJ. BU-061-1(6), UNIT 4

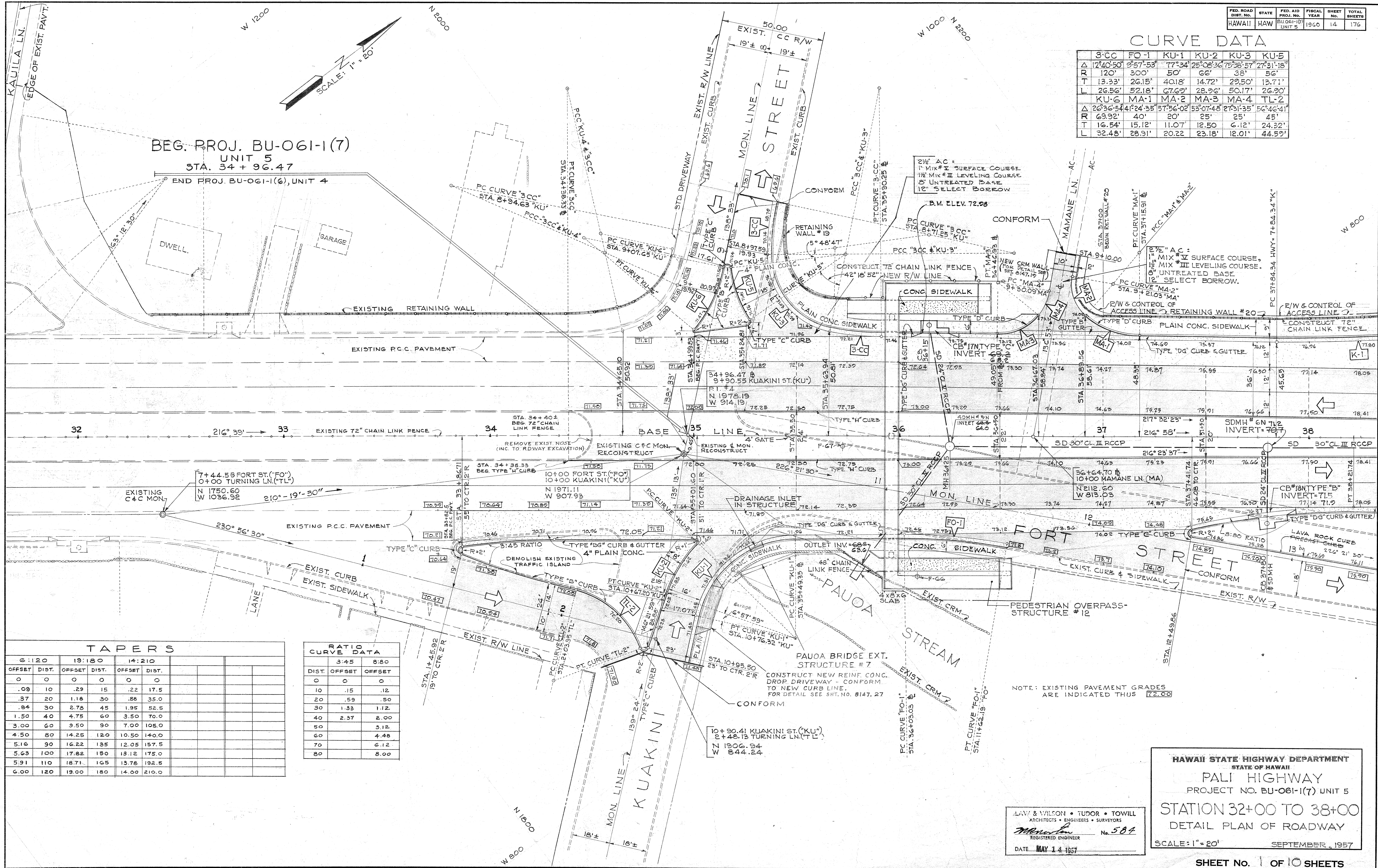
TAPERS

6:120	19:180	14:210			
OFFSET	DIST.	OFFSET	DIST.	OFFSET	DIST.
0	0	0	0	0	0
.09	10	.29	15	.22	17.5
.37	20	1.18	30	.88	35.0
.84	30	2.78	45	1.95	52.5
1.50	40	4.75	60	3.50	70.0
3.00	60	9.50	90	7.00	105.0
4.50	80	14.25	120	10.50	140.0
5.16	90	16.22	135	12.05	157.5
5.63	100	17.62	150	13.12	175.0
5.91	110	18.71	165	13.78	192.5
6.00	120	19.00	180	14.00	210.0

RATIO CURVE DATA

3:45	8:80
DIST.	OFFSET
0	0
10	.15
20	.59
30	1.33
40	2.37
50	3.12
60	4.48
70	6.12
80	8.00

SURVEY PLOTTED BY: _____
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
ORIGINAL PLAN NO. _____
NOTE BOOK NO. _____



NOTE: EXISTING PAVEMENT GRADES ARE INDICATED THUS $\overline{72.00}$

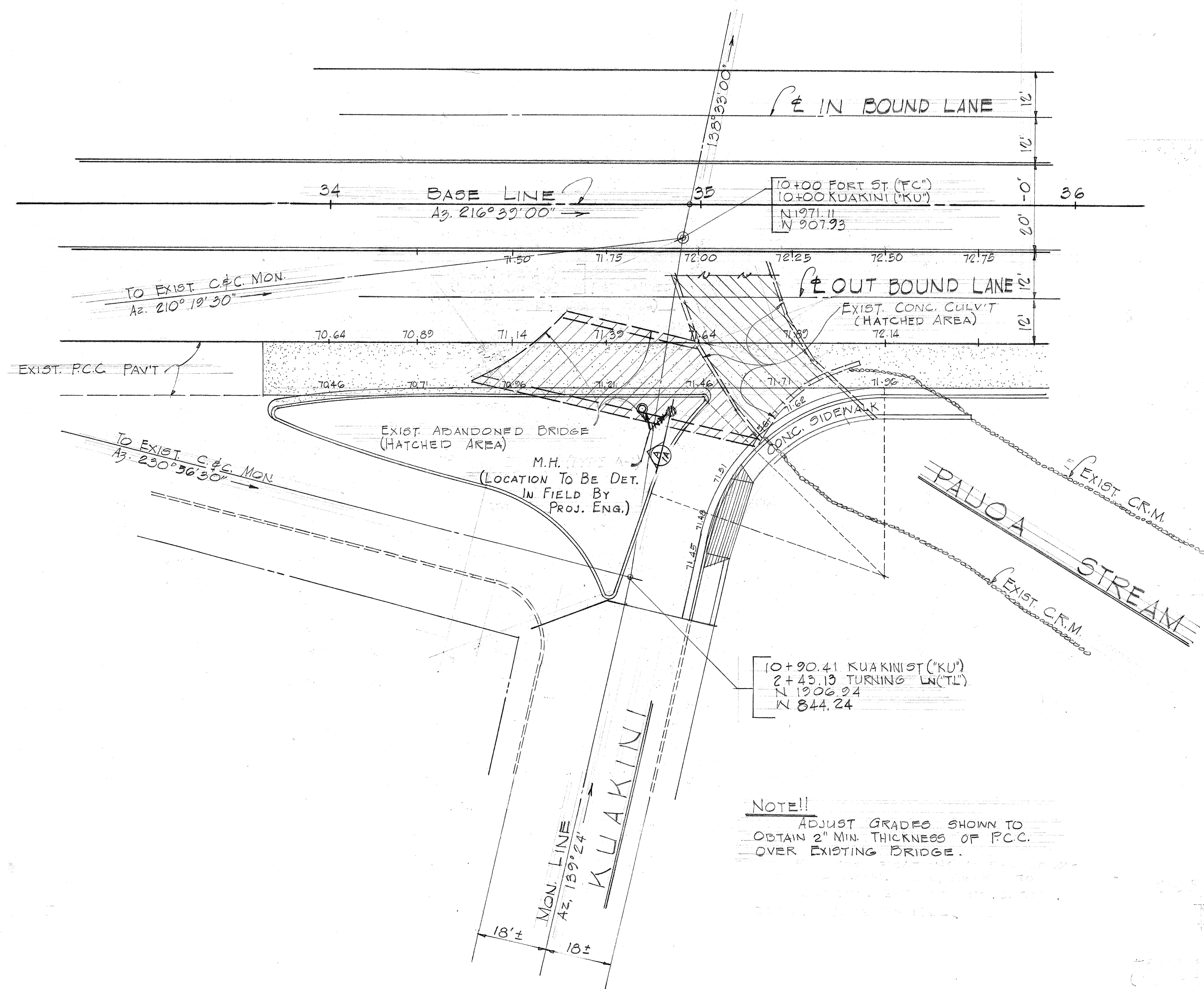
LAW & WILSON • TUDOR • TOWILL
ARCHITECTS • ENGINEERS • SURVEYORS
REGISTERED ENGINEER No. 584
DATE MAY 14 1957

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
PALI HIGHWAY
PROJECT NO. BU-061-1(7) UNIT 5
STATION 32+00 TO 38+00
DETAIL PLAN OF ROADWAY
SCALE: 1" = 20'
SEPTEMBER, 1957

SHEET NO. 1 OF 10 SHEETS

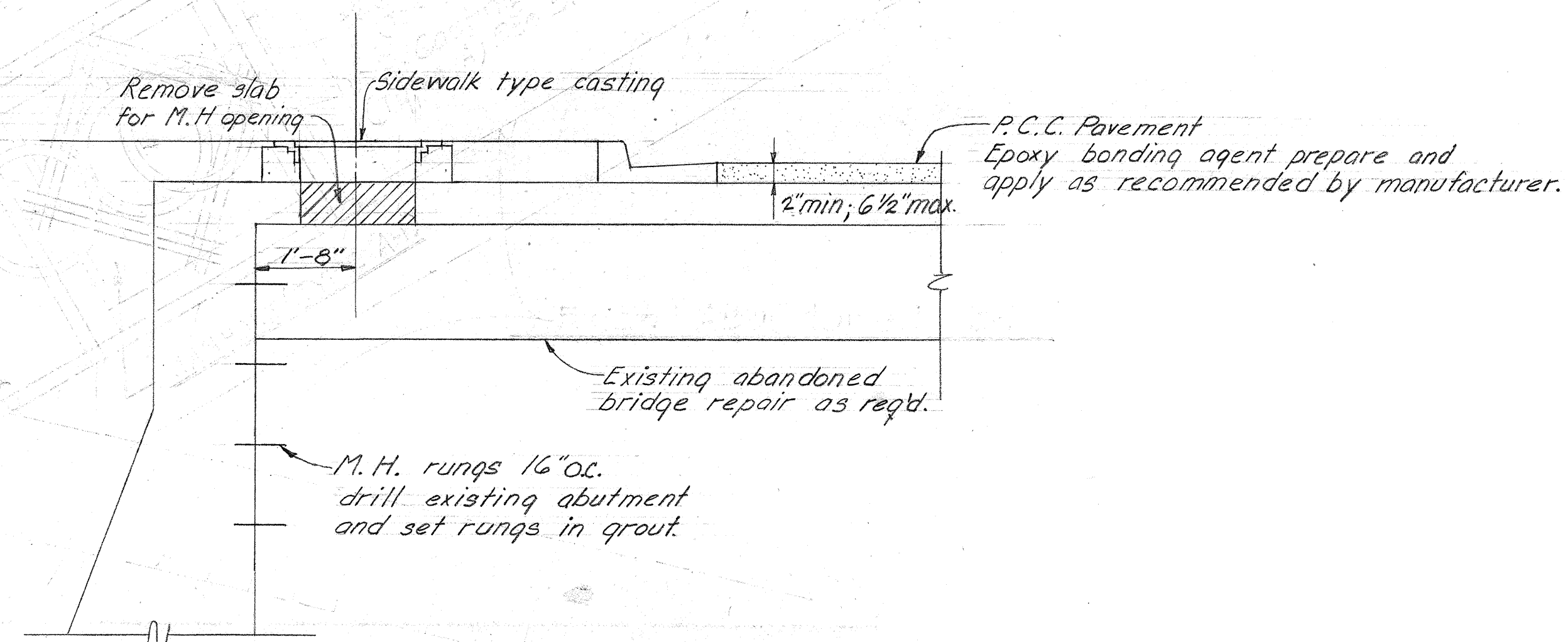
B. S147.14

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



LOCATION PLAN

Scale: 1" = 20'-0"



SECTION A-A

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

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	

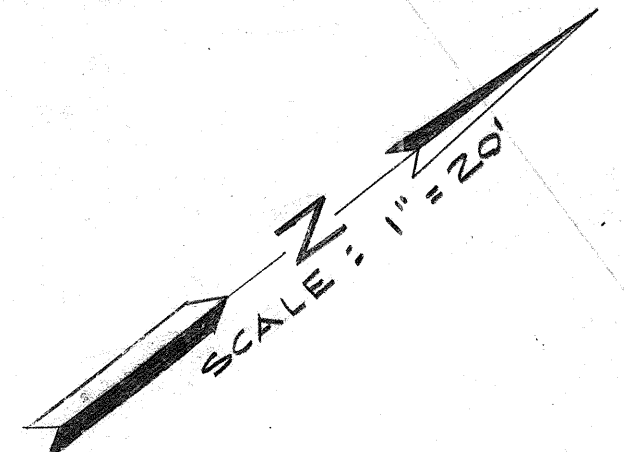
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PALI HIGHWAY
PROJ. NO. BU-061(1) UNIT 2
MANHOLE DETAILS

SHEET No. 1A OF 10 SHEETS

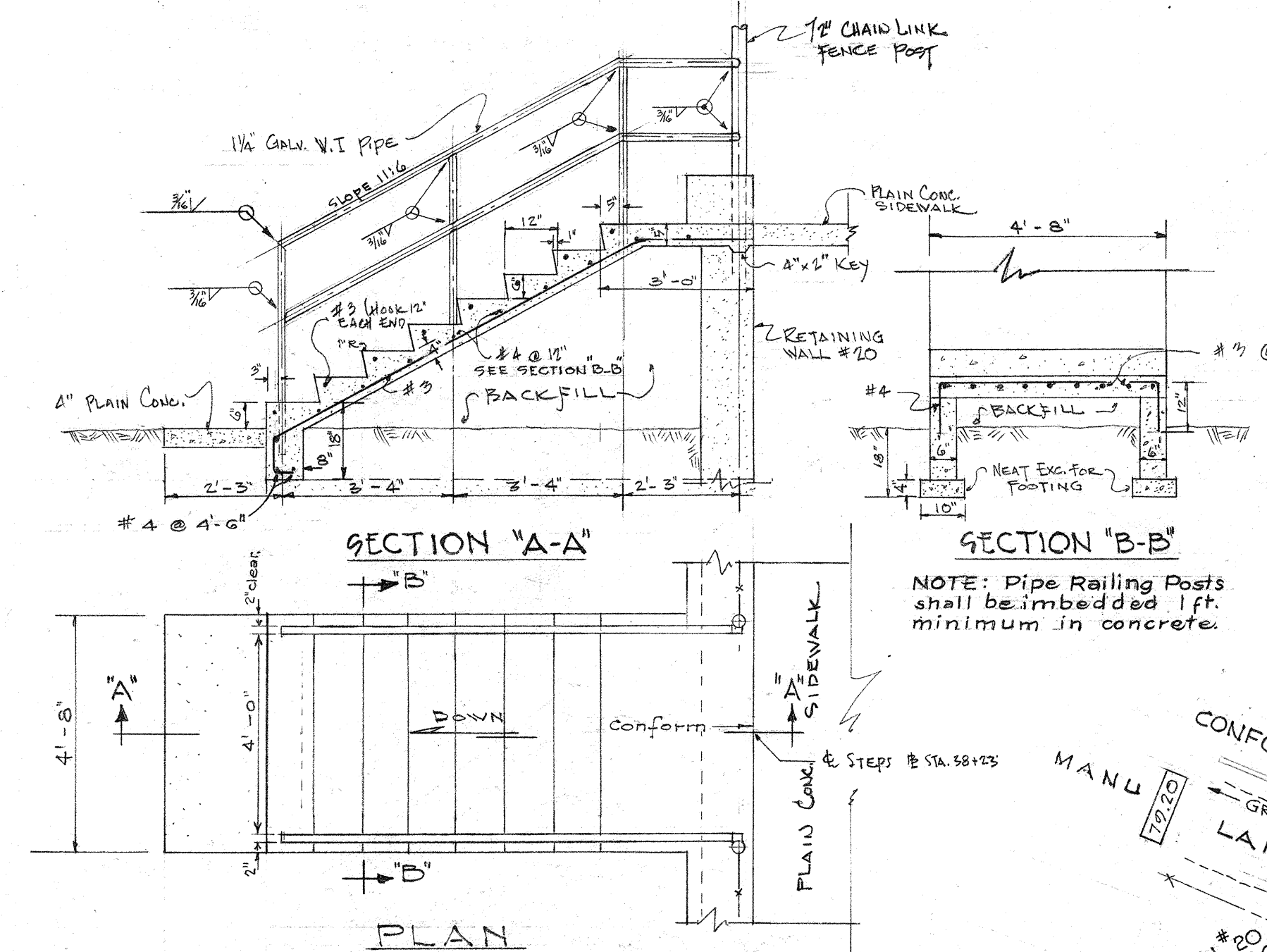
B. 8147.14 A

W1000

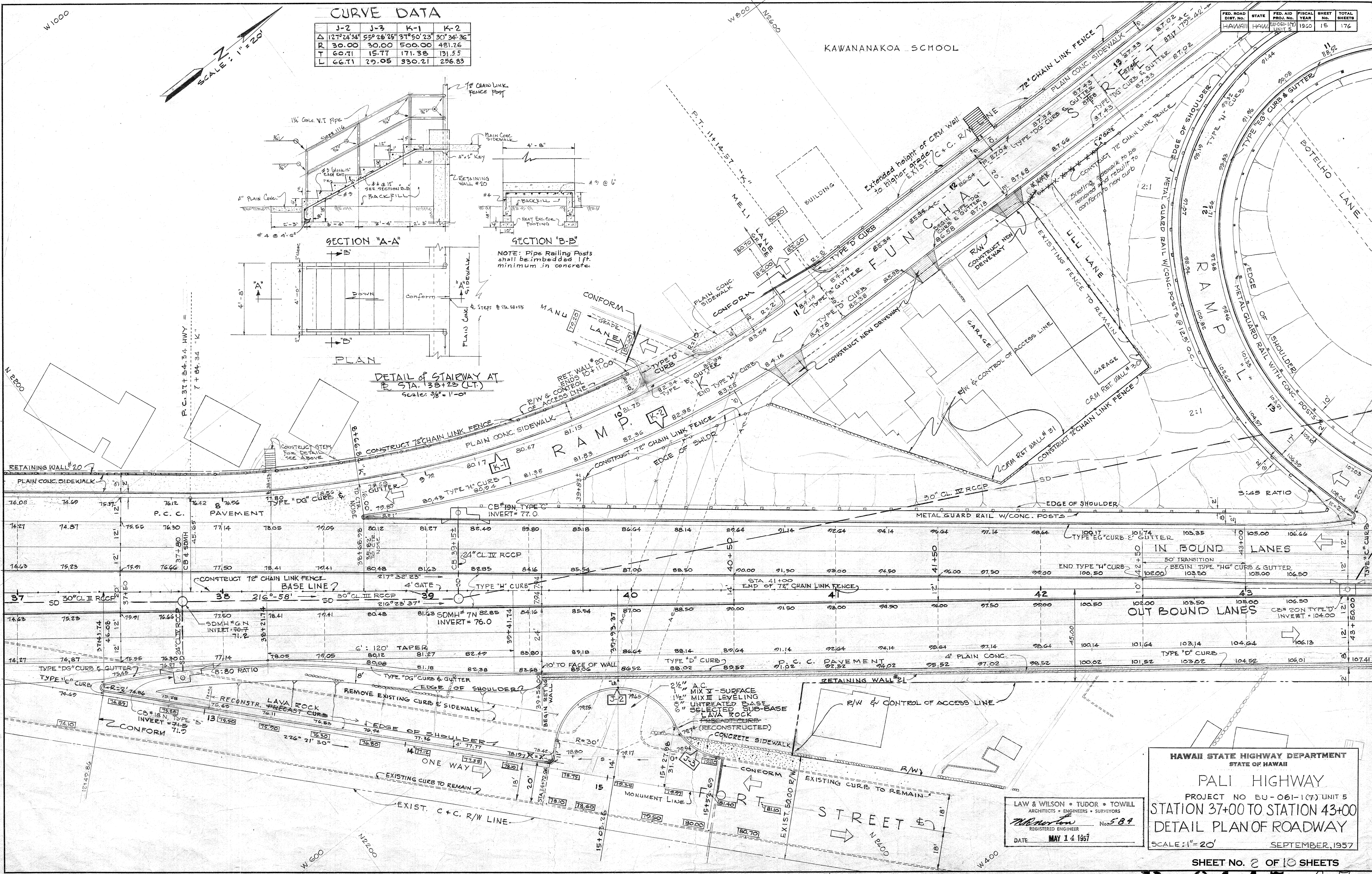


CURVE DATA

	J-2	J-3	K-1	K-2
Δ	127°24'34"	55°28'25"	37°50'23"	30°24'36"
R	30.00	30.00	500.00	481.26
T	60.71	15.77	171.38	131.55
L	66.71	29.05	330.21	256.83



DETAIL OF STAIRWAY AT STA. 38+23 (L.T.)
Scale: 3/8" = 1'-0"



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

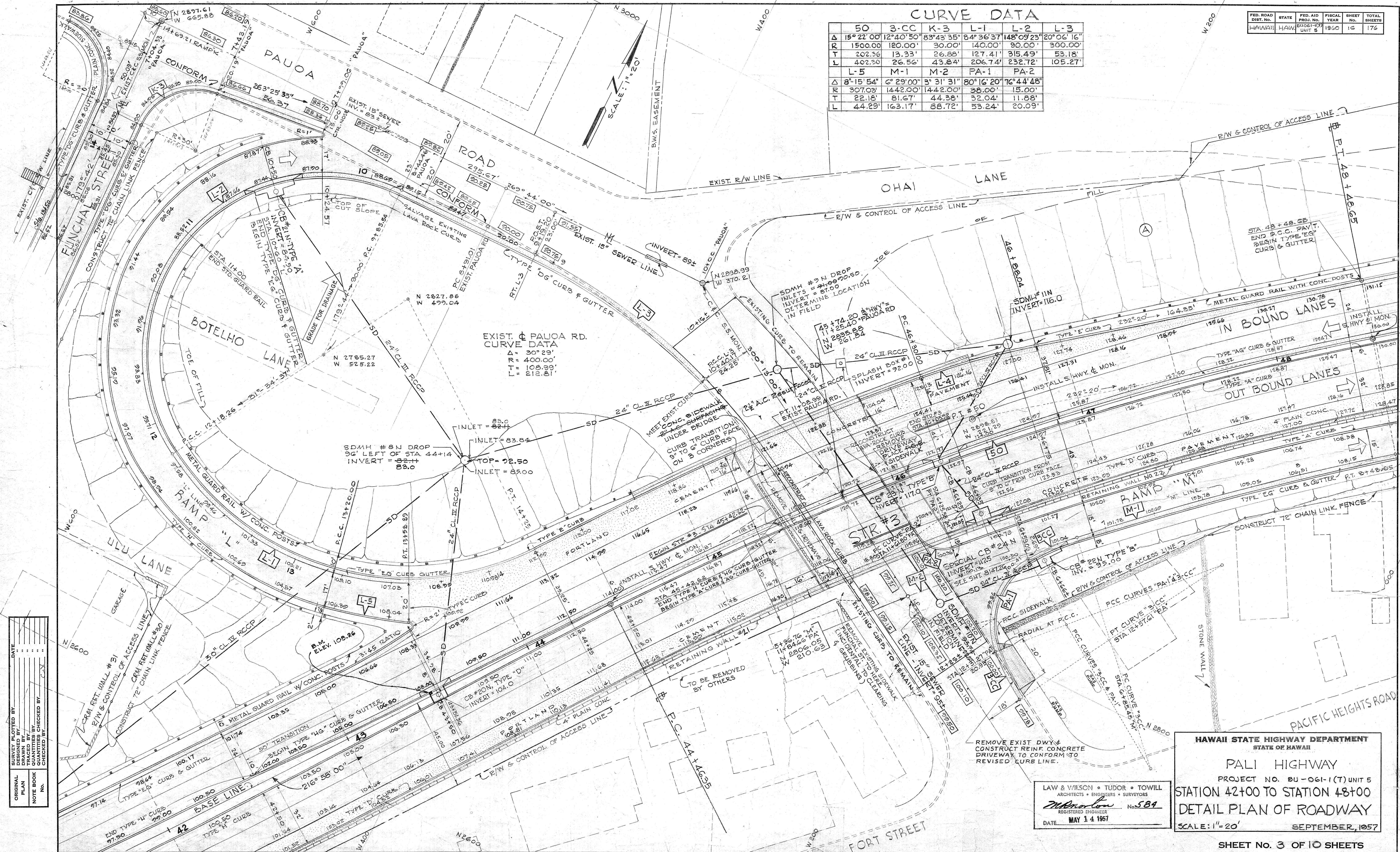
LAW & WILSON • TUDOR • TOWILL
ARCHITECTS • ENGINEERS • SURVEYORS
William Wilson
REGISTERED ENGINEER No. 584
DATE MAY 14 1957

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
PALI HIGHWAY
PROJECT NO. BU-061-1(7) UNIT 5
STATION 37+00 TO STATION 43+00
DETAIL PLAN OF ROADWAY
SCALE: 1" = 20'
SEPTEMBER, 1957

B. S147.15

CURVE DATA					
	50	3-CC	K-3	L-1	L-2
Δ	15° 22' 00"	12° 40' 50"	83° 43' 35"	84° 36' 37"	148° 09' 23"
R	1500.00	120.00	30.00	140.00	90.00
T	202.36	13.33	26.88	127.41	315.49
L	402.30	26.56	43.84	206.74	232.72
L-5	M-1	M-2	PA-1	PA-2	
Δ	8° 15' 54"	6° 29' 00"	3° 31' 31"	80° 16' 20"	76° 44' 48"
R	307.03	1442.00	1442.00	38.00	15.00
T	22.18	81.67	44.38	32.04	11.88
L	44.29	163.17	88.72	53.24	20.09

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BUC61-1(7)	1960	16	176



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

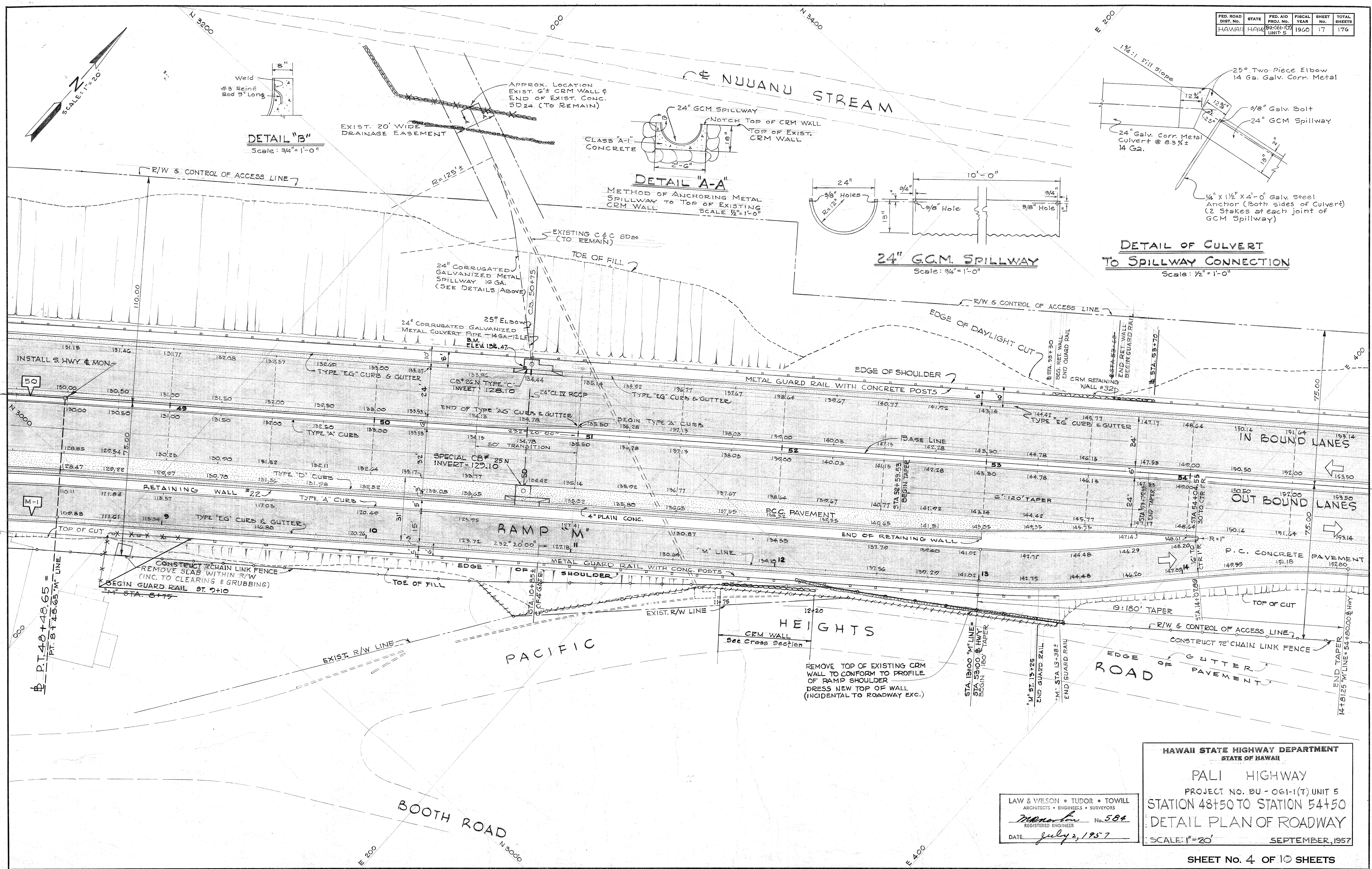
LAW & WILSON • TUDOR • TOWILL
ARCHITECTS • ENGINEERS • SURVEYORS
M. Wilson
REGISTERED ENGINEER No. 584
DATE MAY 14 1957

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
PALI HIGHWAY
PROJECT NO. BU-061-1(7) UNIT 5
STATION 42+00 TO STATION 48+00
DETAIL PLAN OF ROADWAY
SCALE: 1" = 20' SEPTEMBER, 1957

SHEET NO. 3 OF 10 SHEETS

B. S147.16

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	BU-061-1(7)	1960	17	176



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

DETAIL "A-A"
METHOD OF ANCHORING METAL SPILLWAY TO TOP OF EXISTING CRM WALL
Scale: 1/2" = 1'-0"

24" GCM SPILLWAY
Scale: 3/4" = 1'-0"

DETAIL OF CULVERT TO SPILLWAY CONNECTION
Scale: 1/2" = 1'-0"

HEIGHTS
CRM WALL
See Cross Section

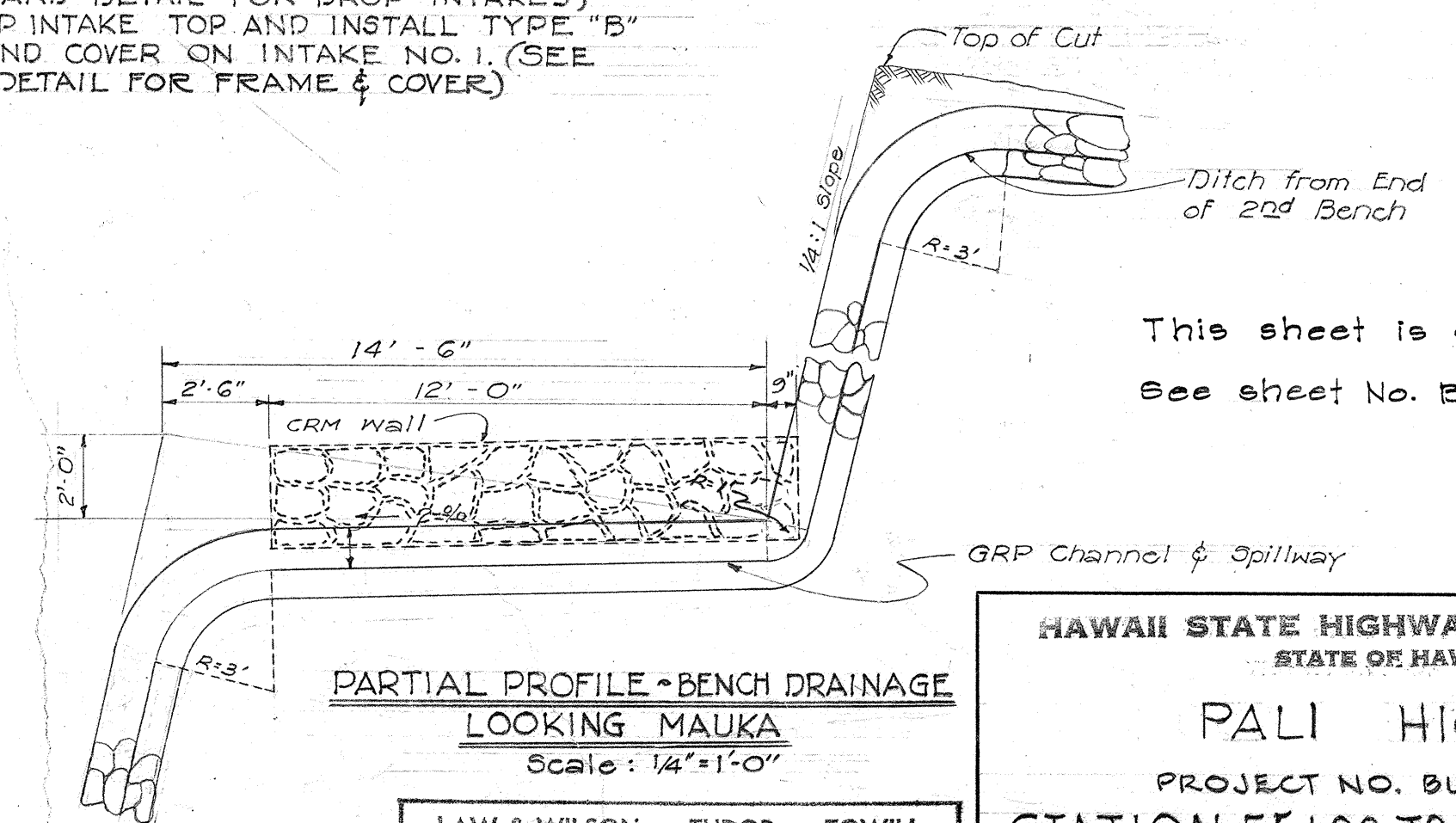
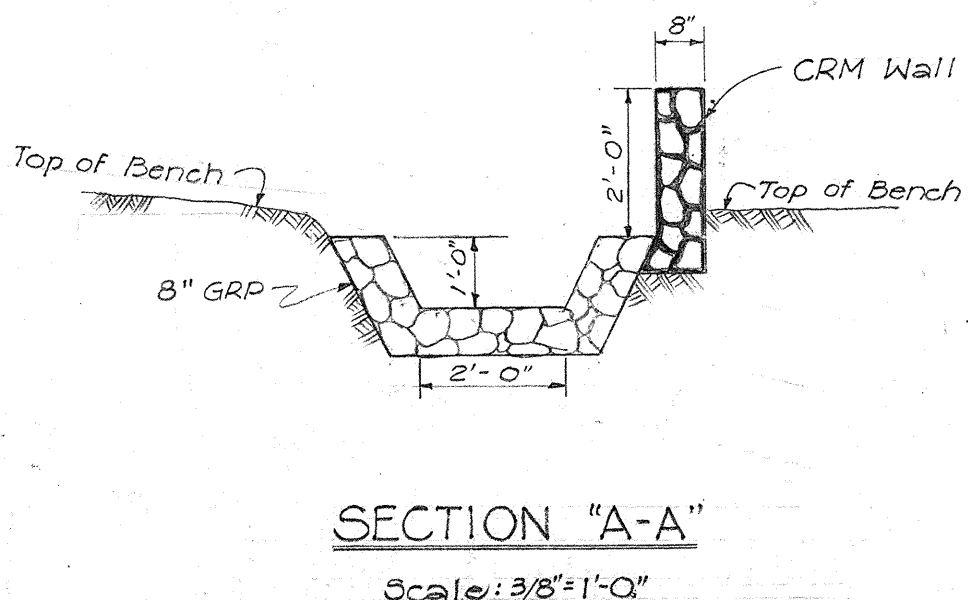
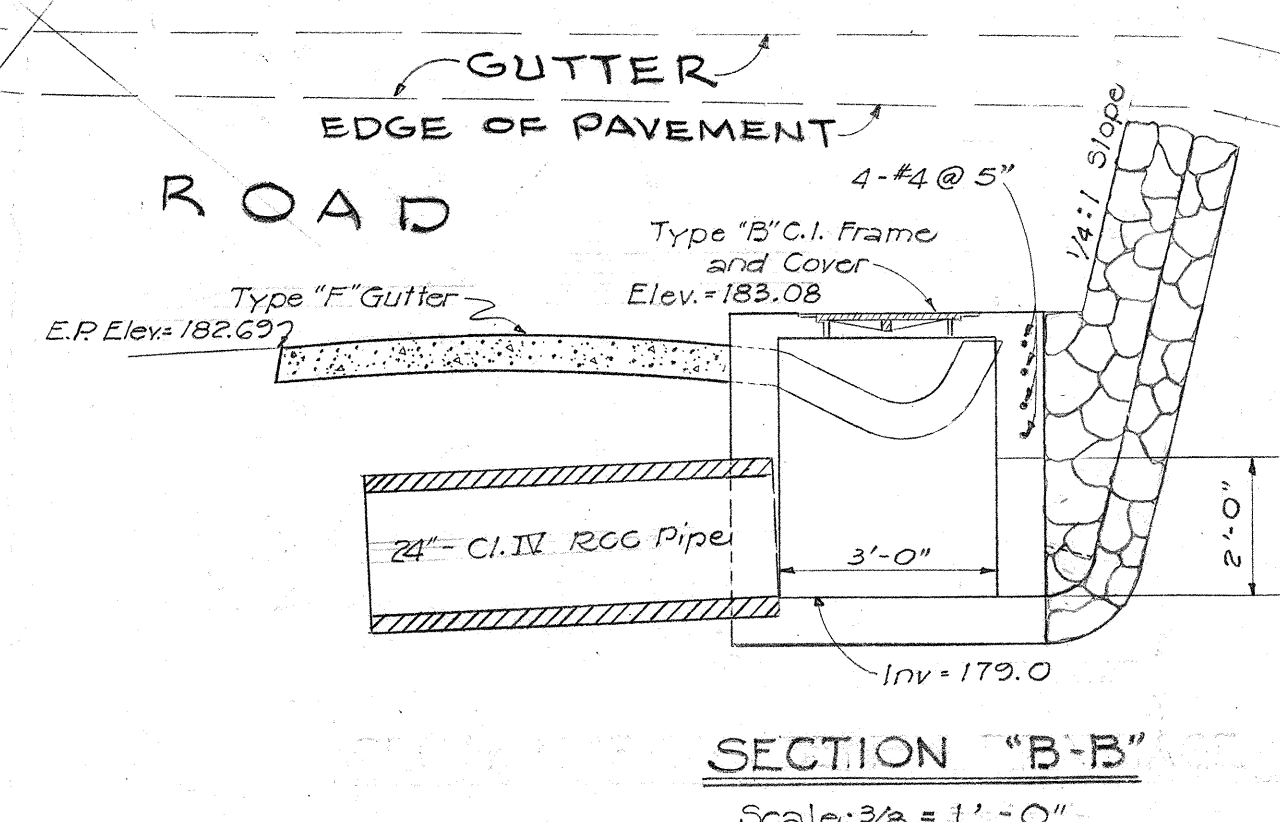
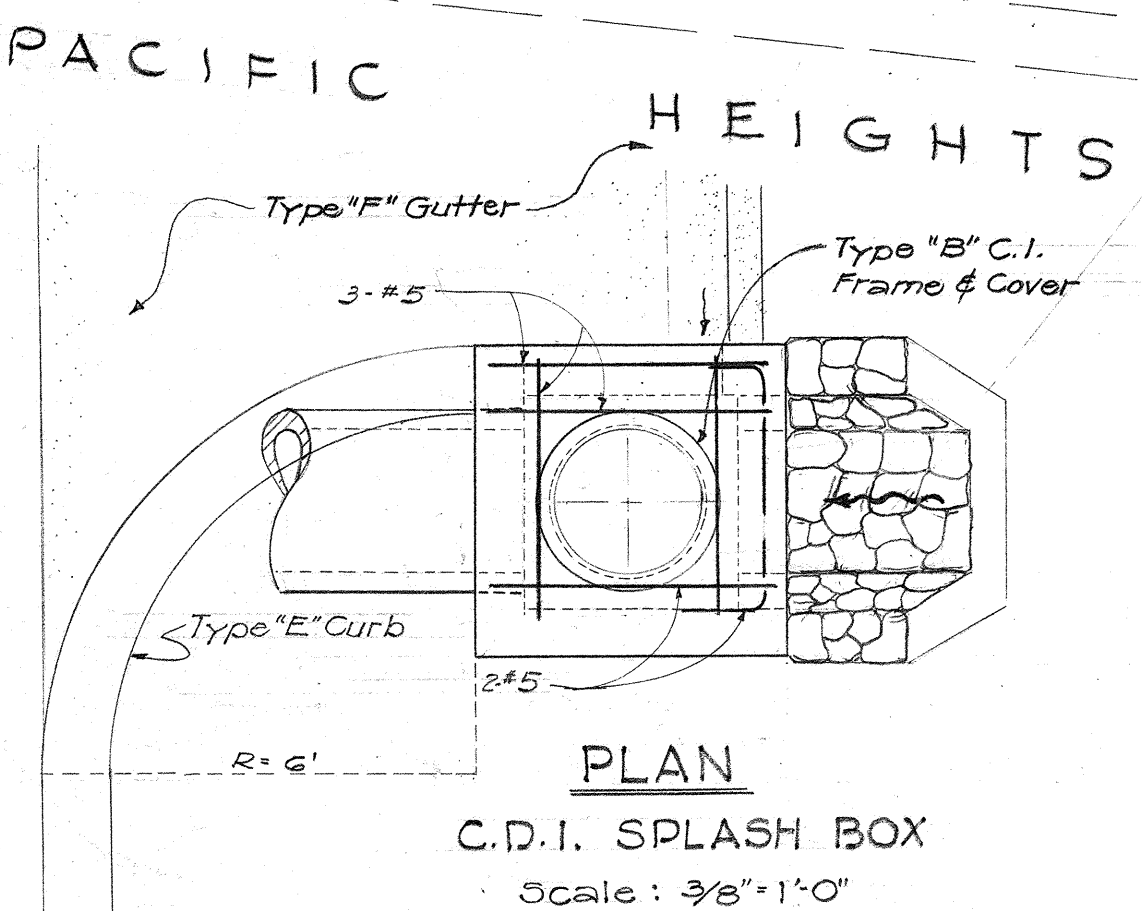
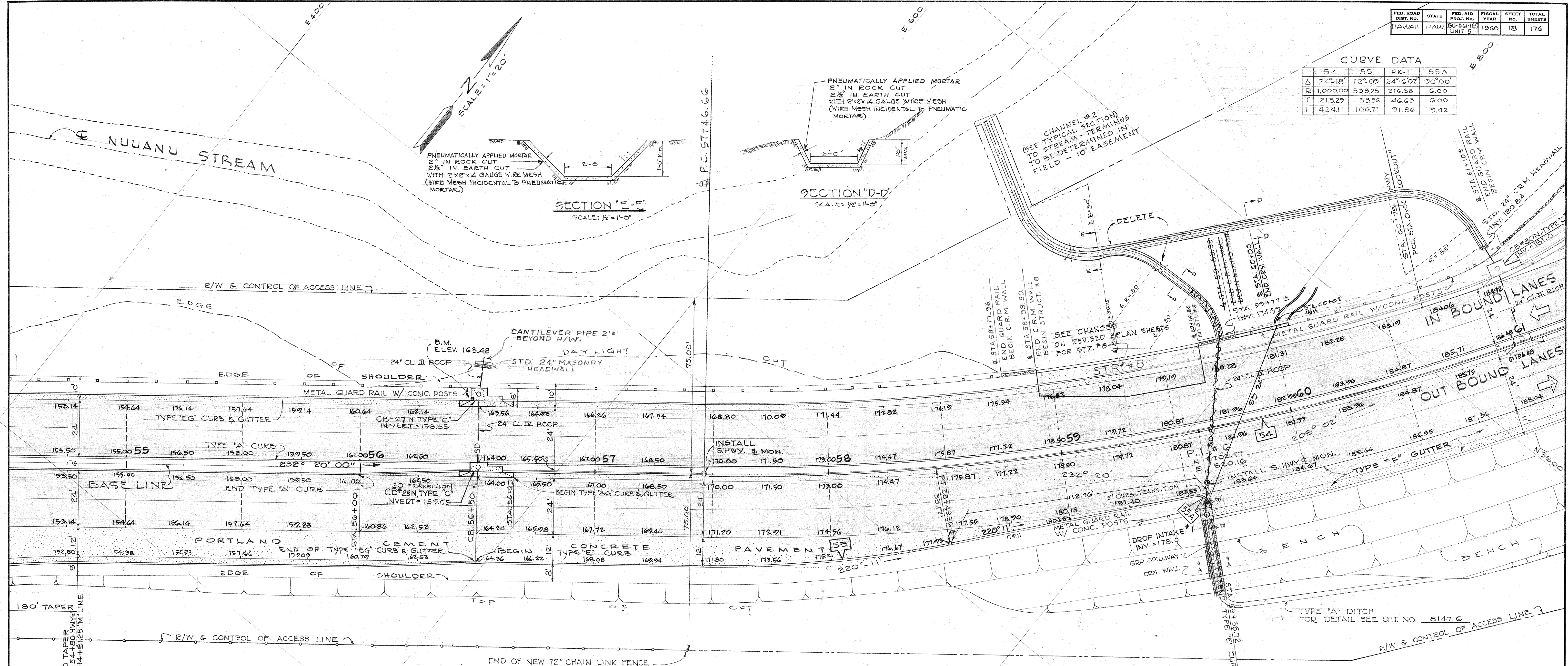
ORIGINAL PLAN	DESIGNED BY	DATE
NOTE BOOK	QUANTITIES BY	
NO.	CHECKED BY	

LAW & WILSON • TUDOR • TOWILL
ARCHITECTS • ENGINEERS • SURVEYORS
W. W. Wilson No. 584
REGISTERED ENGINEER
DATE July 2, 1957

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
PALI HIGHWAY
PROJECT NO. BU-061-1(7) UNIT 5
STATION 48+50 TO STATION 54+50
DETAIL PLAN OF ROADWAY
SCALE: 1" = 20'
SEPTEMBER, 1957

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BU-061-10	UNIT 5	18	176

CURVE DATA					
	54	55	PK-1	55A	
Δ	24°18'	12°09'	24°16'07"	90°00'	
R	1,000.00	503.25	216.88	6.00	
T	215.29	53.56	46.63	6.00	
L	424.11	106.71	91.86	9.42	



DETAIL OF BENCH DRAINAGE SYSTEM

Scale: As Noted

(SEE STANDARD DETAIL FOR DROP INTAKES) MODIFY DROP INTAKE TOP AND INSTALL TYPE \"B\" C.I. FRAME AND COVER ON INTAKE NO. 1. (SEE STANDARD DETAIL FOR FRAME & COVER)

This sheet is superseded
See sheet No. B.8147.18A

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII

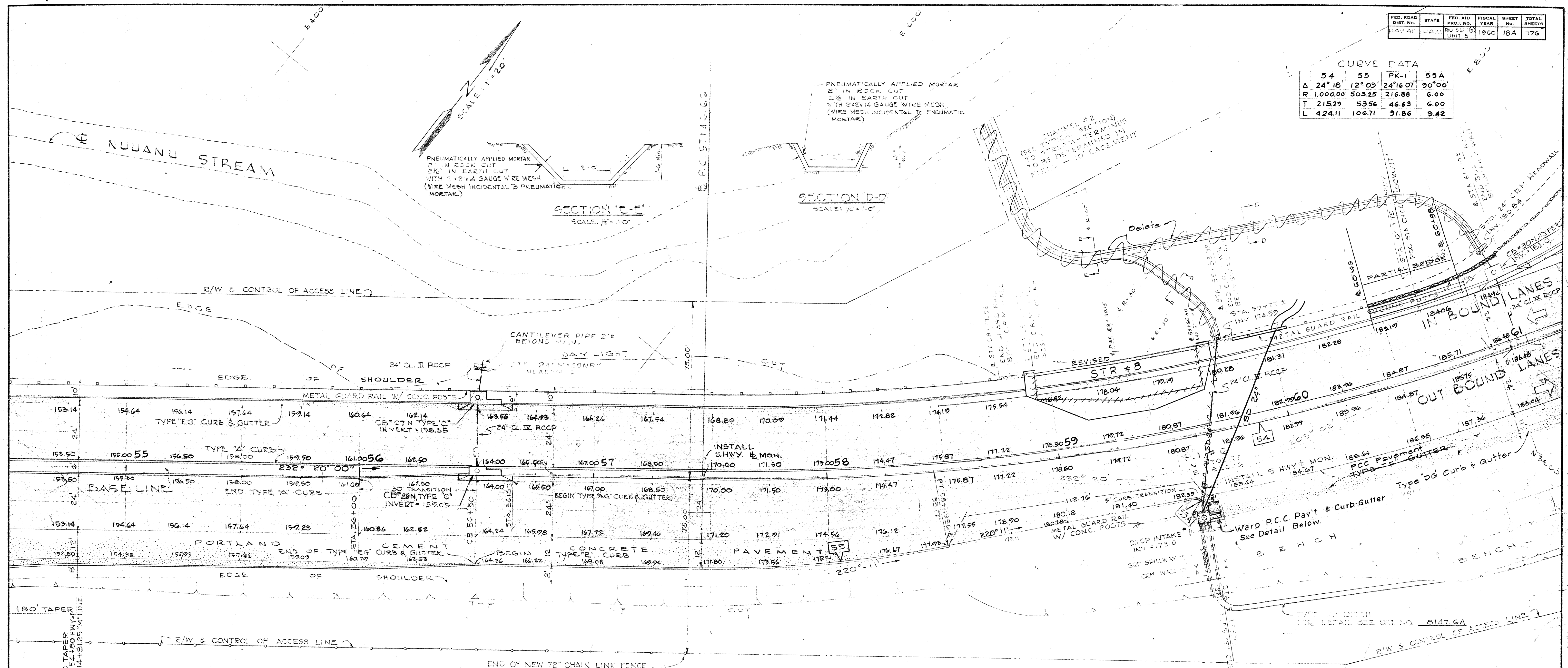
PALI HIGHWAY
PROJECT NO. BU-061-1(7) UNIT 5
STATION 55+00 TO STATION 61+00
DETAIL PLAN OF ROADWAY
SCALE: AS NOTED SEPTEMBER, 1957

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ARCHITECTS • ENGINEERS • SURVEYORS
Lawson No. 584
REGISTERED ENGINEER
DATE July 2, 1957

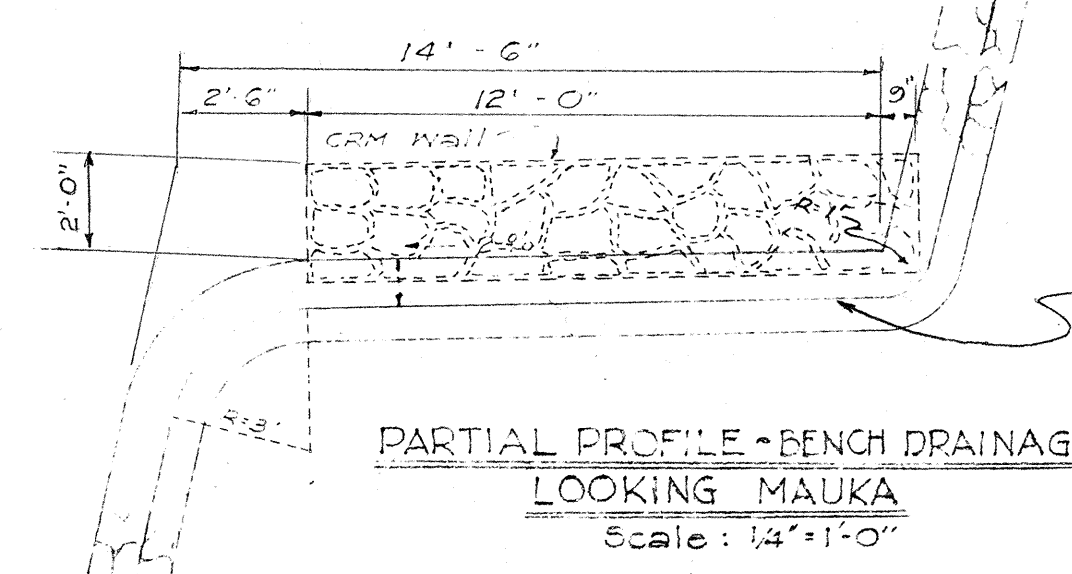
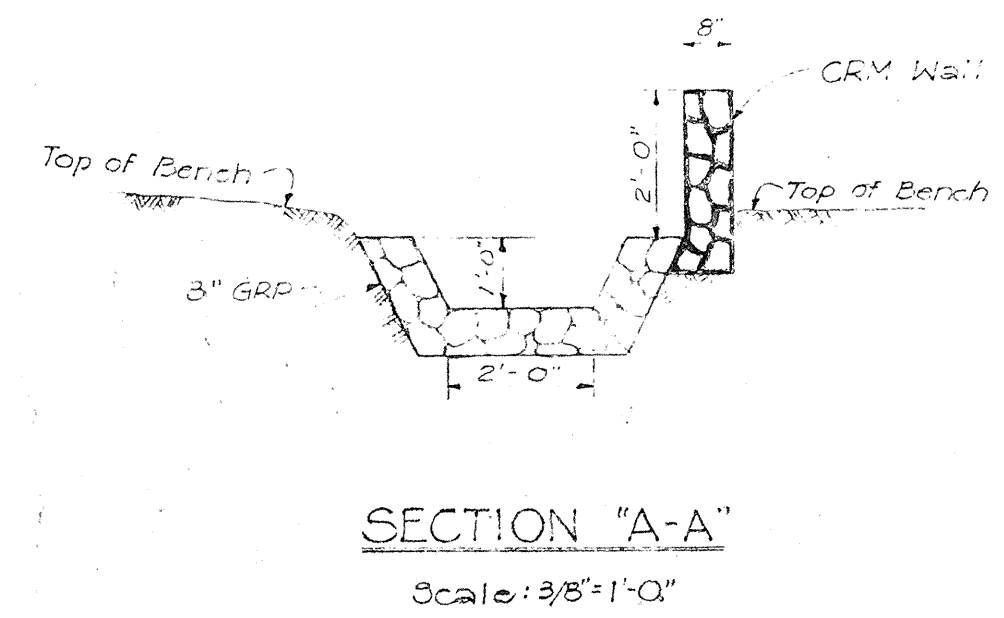
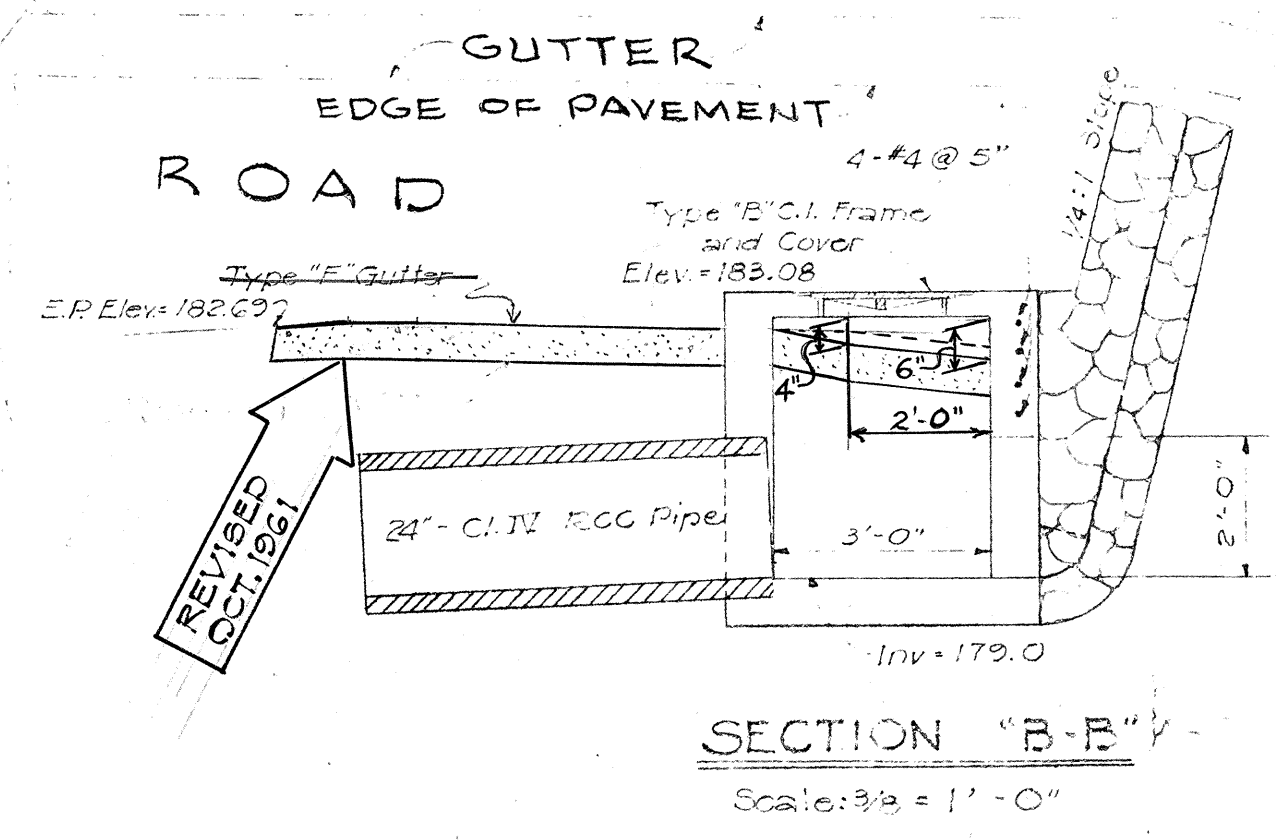
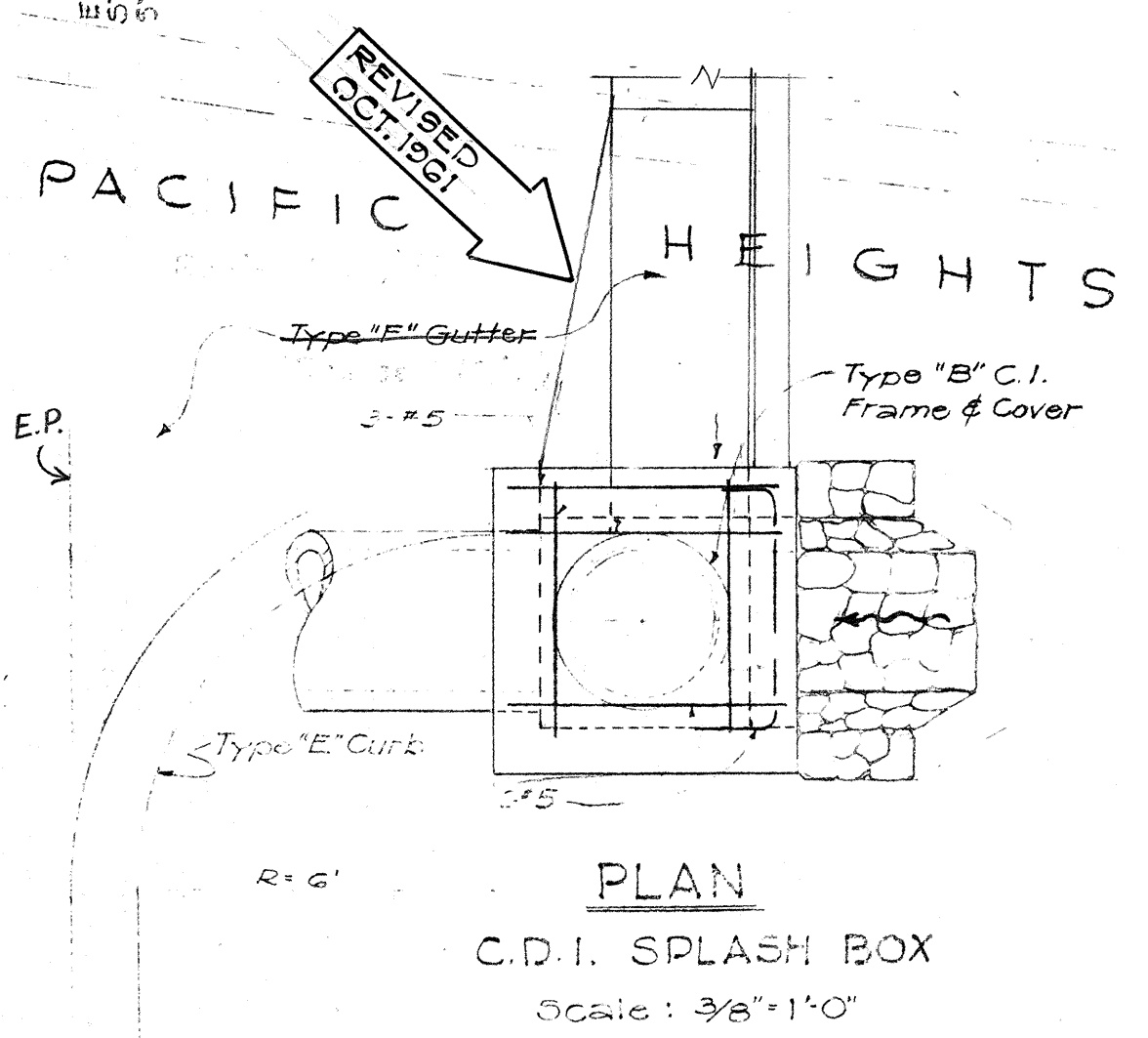
DESIGNED BY: _____
CHECKED BY: _____
DATE: _____
ORIGINAL PLAN NO. _____
NOTE BOOK NO. _____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW-411	HAW.	8U-061(7) UNIT 5	1955	18A	176

CURVE DATA					
54	55	PK-1	55A		
Δ 24° 18'	12° 03'	24° 16' 07"	90° 00'		
R 1,000.00	503.25	216.88	6.00		
T 215.27	53.56	46.43	6.00		
L 424.11	106.71	91.86	9.42		



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



NOTE: This Sht. Supplements Sht. No. B-8147-18 Dated Sept. 1957.
GRP Channel & Spillway

DETAIL OF BENCH DRAINAGE SYSTEM

Scale: As Noted

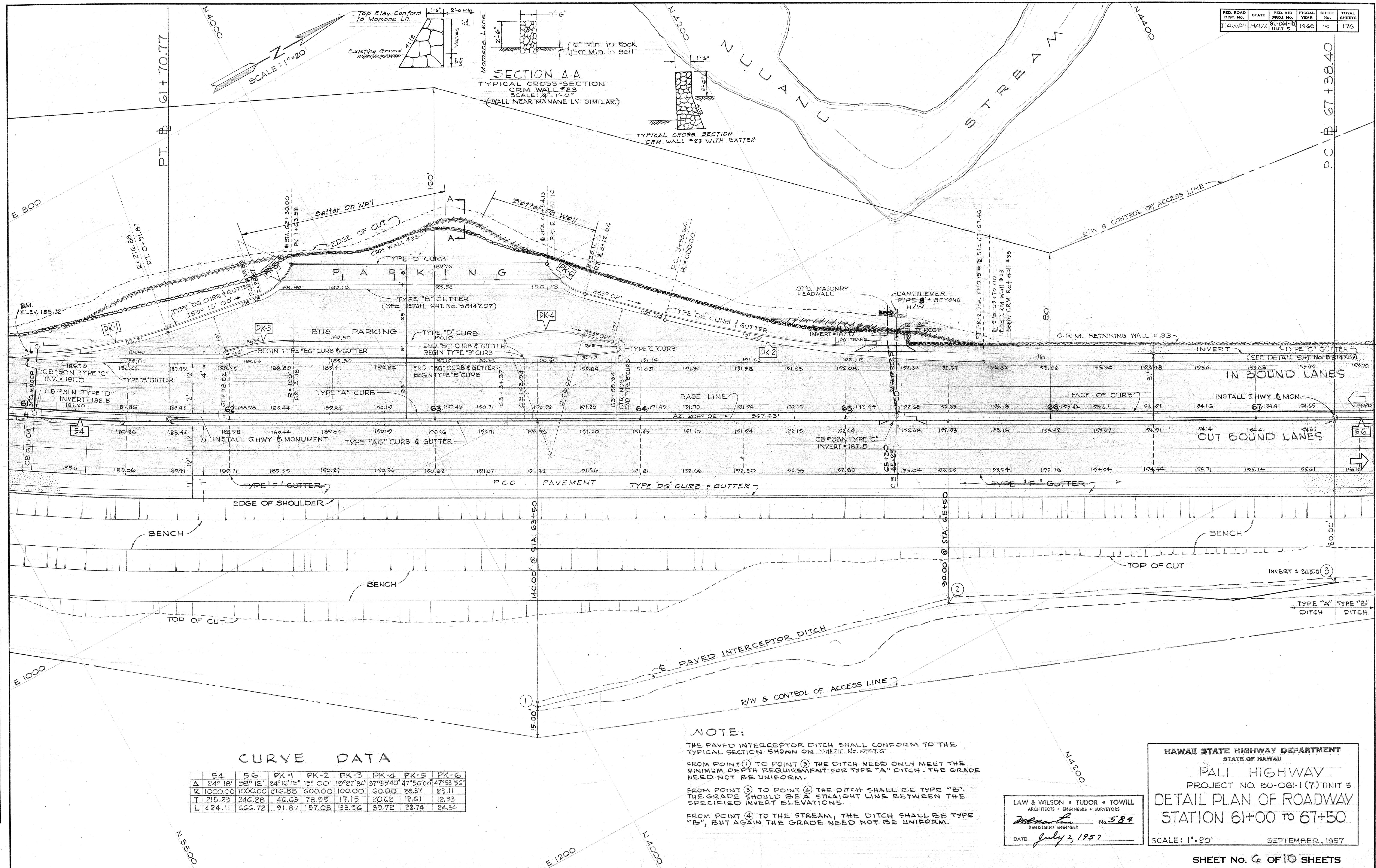
DATE: July 23, 1957

STATE HIGHWAY DEPARTMENT
PALI HIGHWAY
PROJECT NO. 8U-061(7) UNIT 5
STATION 55+00 TO STATION 61+00
DETAIL PLAN OF ROADWAY
SCALE: AS NOTED
OCTOBER, 1961

SHEET No. 5 OF 10 SHEETS

B.S147.18A

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	80-061-10	1960	17	176



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

CURVE DATA

	54	56	PK-1	PK-2	PK-3	PK-4	PK-5	PK-6
Δ	24° 18'	38° 12'	24° 16' 15"	15° 00'	10° 27' 34"	37° 55' 40"	47° 56' 06"	47° 53' 56"
R	1000.00	1000.00	216.88	600.00	100.00	60.00	28.37	29.11
L	215.29	346.28	46.63	78.99	17.15	20.62	12.61	12.93
T	424.11	666.72	91.87	157.08	33.96	39.72	23.74	24.34

NOTE:

THE PAVED INTERCEPTOR DITCH SHALL CONFORM TO THE TYPICAL SECTION SHOWN ON SHEET No. 8147.6

FROM POINT ① TO POINT ③ THE DITCH NEED ONLY MEET THE MINIMUM DEPTH REQUIREMENT FOR TYPE "A" DITCH. THE GRADE NEED NOT BE UNIFORM.

FROM POINT ③ TO POINT ④ THE DITCH SHALL BE TYPE "B". THE GRADE SHOULD BE A STRAIGHT LINE BETWEEN THE SPECIFIED INVERT ELEVATIONS.

FROM POINT ④ TO THE STREAM, THE DITCH SHALL BE TYPE "B", BUT AGAIN THE GRADE NEED NOT BE UNIFORM.

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REGISTERED ENGINEER
No. 584
DATE July 2, 1957

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
PALI HIGHWAY
PROJECT NO. 80-061-1(7) UNIT 5
DETAIL PLAN OF ROADWAY
STATION 61+00 TO 67+50
SCALE: 1"=20'
SEPTEMBER, 1957

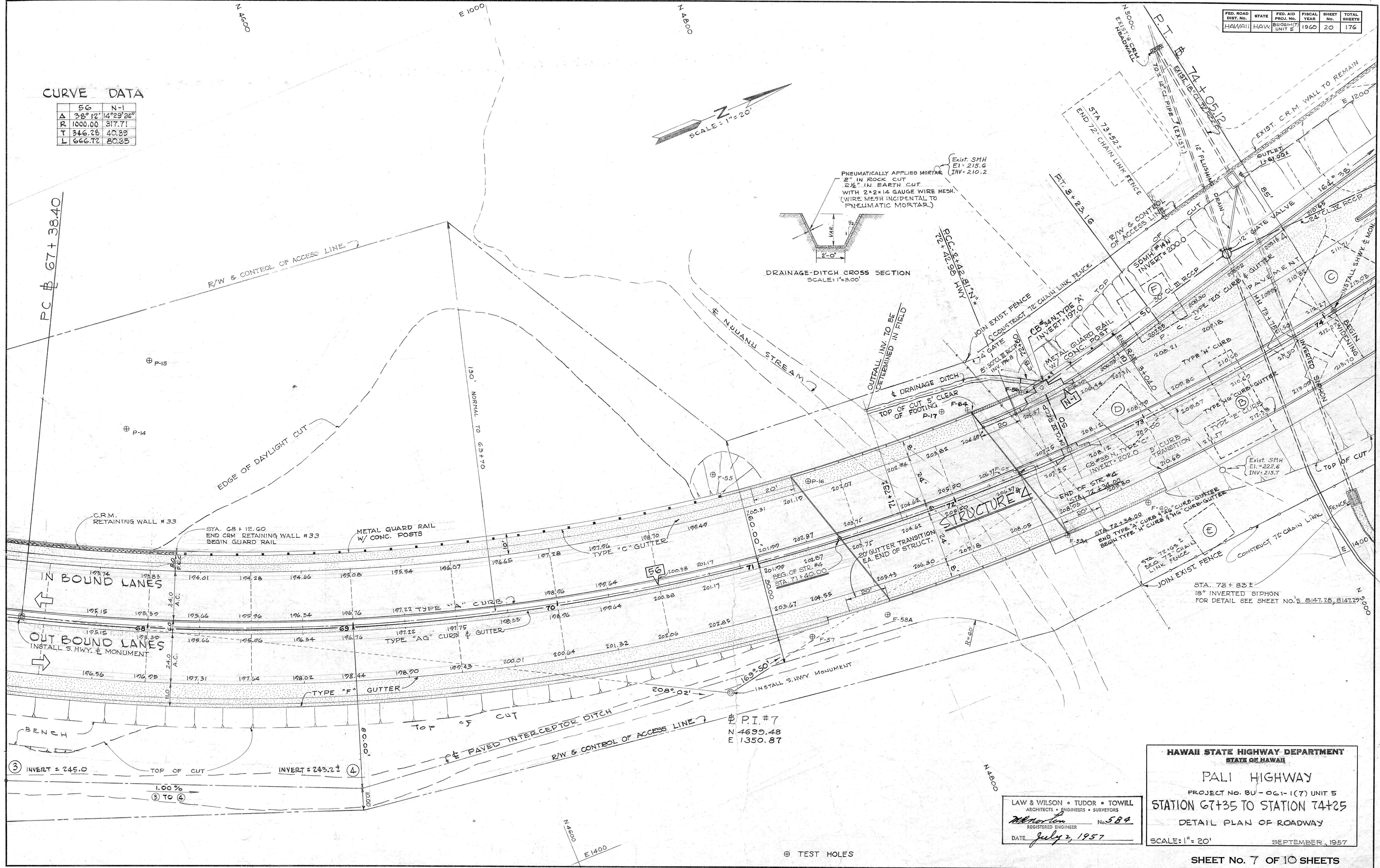
SHEET No. 6 OF 10 SHEETS

B. 8147.19

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	BU02-17	1960	20	176

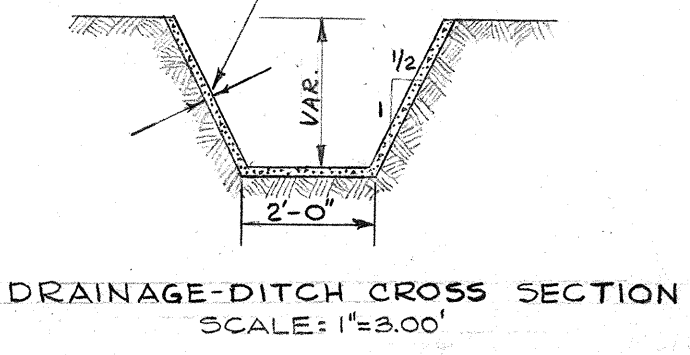
CURVE DATA

	56	N-1
Δ	38° 12' 14" 29' 22"	
R	1000.00	317.71
T	346.26	40.89
L	666.72	80.85



Exist. SMH
EI = 215.6
INV = 210.2

PNEUMATICALLY APPLIED MORTAR
2" IN ROCK CUT
2 1/2" IN EARTH CUT
WITH 2x2x1/4 GAUGE WIRE MESH.
(WIRE MESH INCIDENTAL TO PNEUMATIC MORTAR.)



HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII

PALI HIGHWAY

PROJECT NO. BU-061-1(7) UNIT 5

STATION 67+35 TO STATION 74+25

DETAIL PLAN OF ROADWAY

SCALE: 1" = 20'

SEPTEMBER, 1957

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

Alfred Tudor No. 584
REGISTERED ENGINEER

DATE July 2, 1957

DATE _____

DESIGNED BY _____

TRACED BY _____

QUANTITIES BY _____

CHECKED BY _____

ORIGINAL PLAN _____

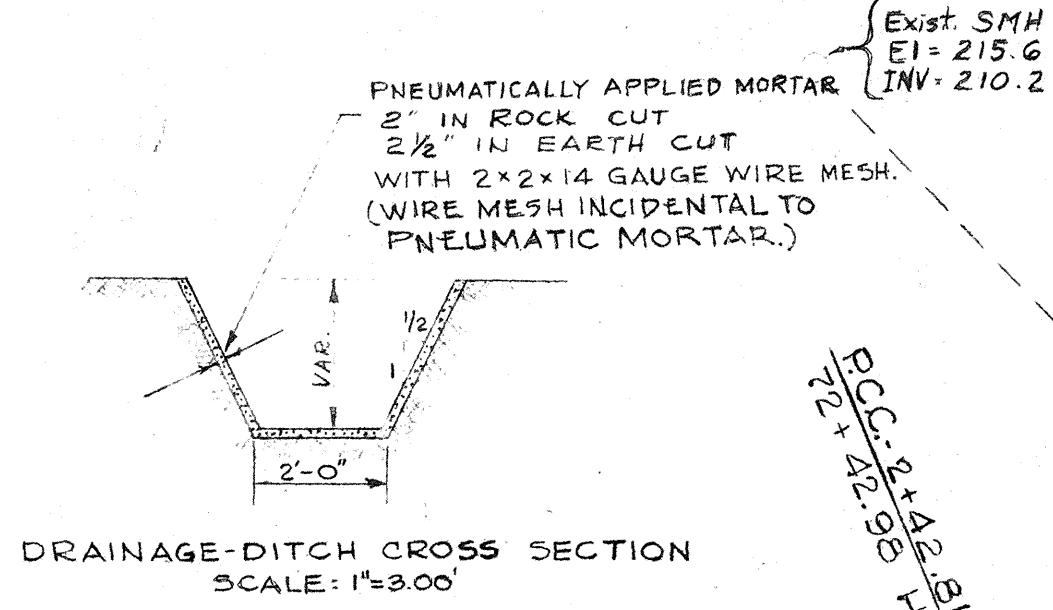
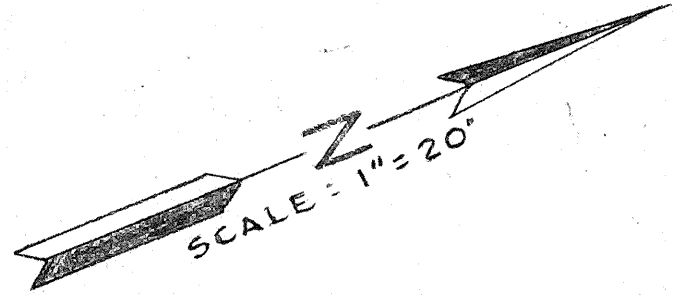
NOTE BOOK _____

NO. _____

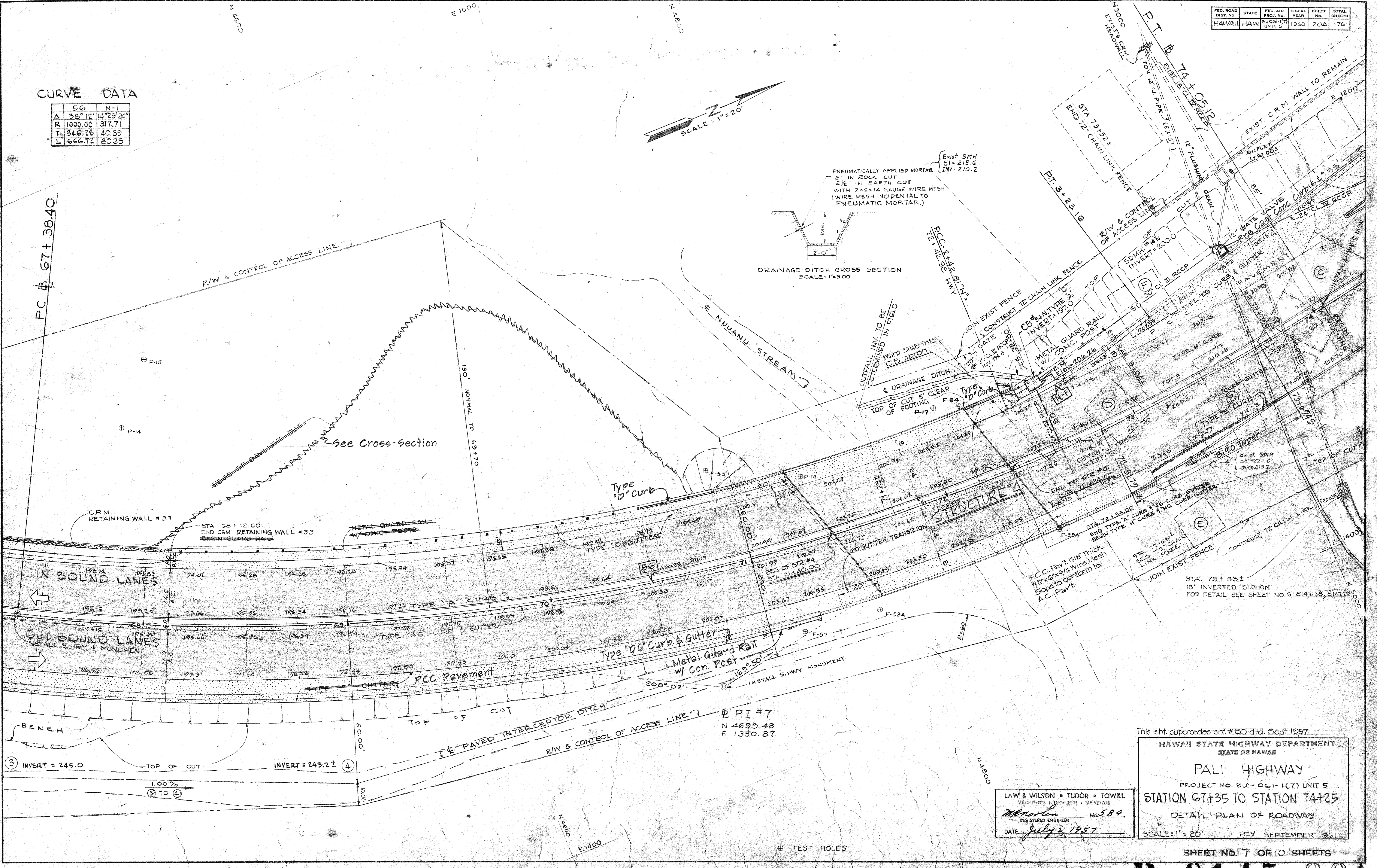
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	ENR-101(7) UNIT 5	1960	204	176

CURVE DATA

	56	N-1
A	38° 12'	4° 29' 24"
R	1000.00	317.71
T	346.76	40.39
L	666.72	80.35



DATE	DESIGNED BY	CHECKED BY
1957	WILSON	WILSON
1957	WILSON	WILSON
1957	WILSON	WILSON
1957	WILSON	WILSON
1957	WILSON	WILSON
1957	WILSON	WILSON
1957	WILSON	WILSON
1957	WILSON	WILSON
1957	WILSON	WILSON



This sh't. supercedes sh't. #20 dtd. Sept. 1957.

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII

PALI HIGHWAY
PROJECT NO. BU-061-1(7) UNIT 5
STATION 67+35 TO STATION 74+25
DETAIL PLAN OF ROADWAY
SCALE: 1"=20' REV. SEPTEMBER, 1961

SHEET NO. 7 OF 10 SHEETS

LAW & WILSON • TUDOR • TOWILL
ARCHITECTS • ENGINEERS • SURVEYORS
W. W. Wilson
REGISTERED ENGINEER No. 584
DATE July 3, 1957

B. 8147.20A

Storm Drainage Revised 5/26/66

CURVE DATA



SHEET No. 8 OF 10 SHEETS

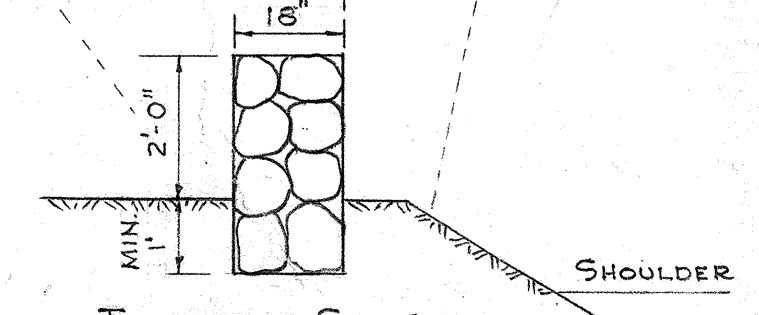
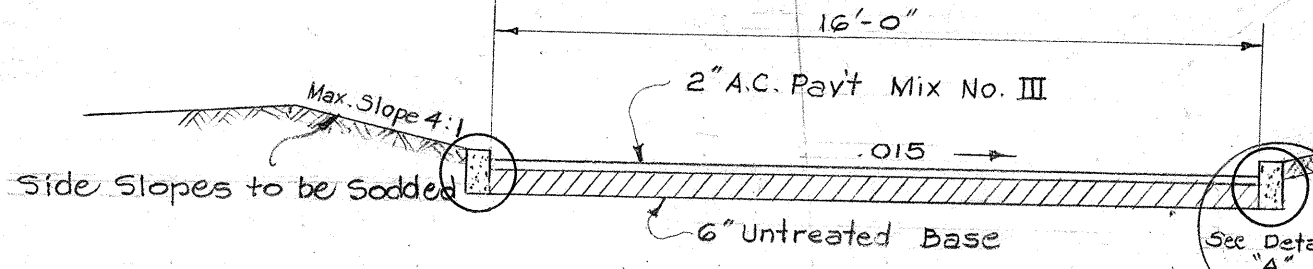
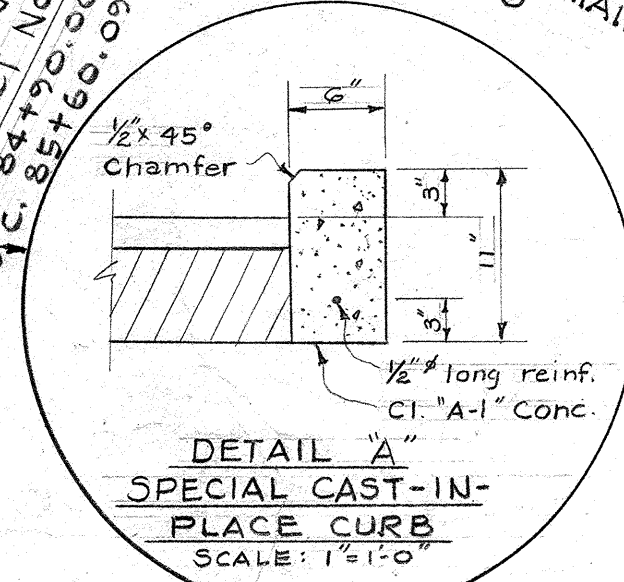
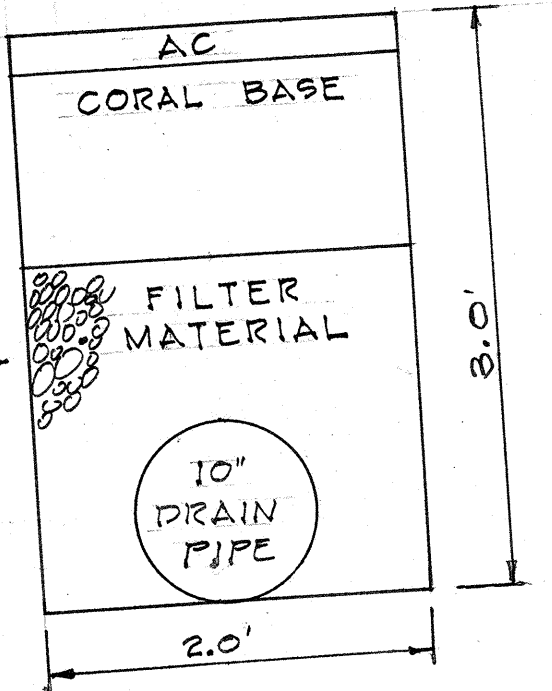
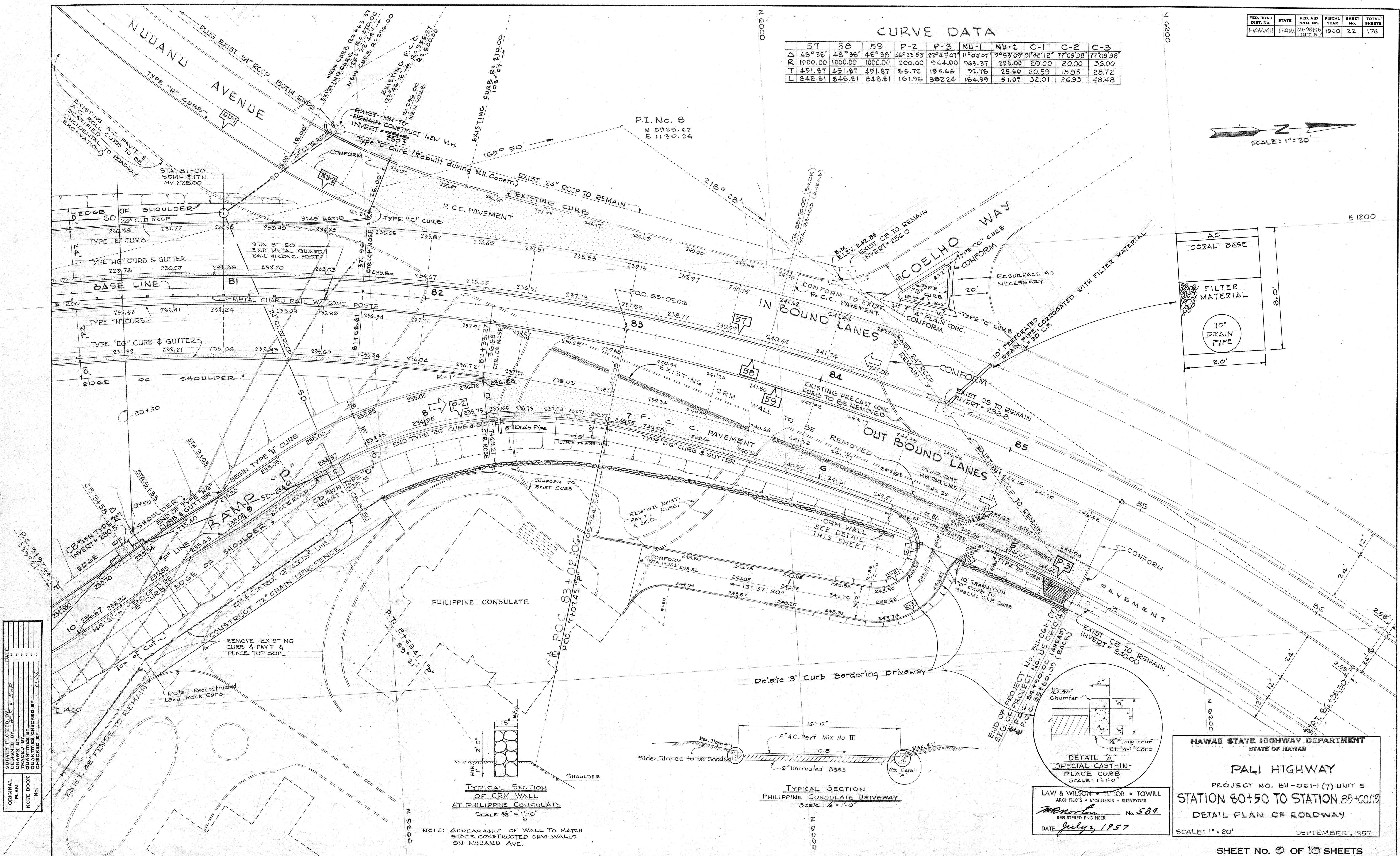
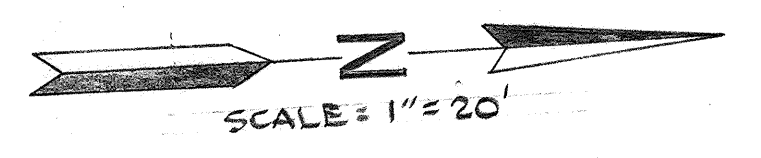
This detail is superseded
by sheet no. B.8147.73A
and B.8147.73B

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	BU-061(7) UNIT 5	1960	22	176

CURVE DATA

	57	58	59	P-2	P-3	NU-1	NU-2	C-1	C-2	C-3
Δ	48°38'	48°38'	48°38'	46°25'33"	22°43'01"	11°00'01"	2°53'09"	91°42'12"	77°09'38"	77°09'38"
R	1000.00	1000.00	1000.00	200.00	964.00	963.37	296.00	20.00	20.00	36.00
L	451.87	451.87	451.87	85.72	193.66	92.78	25.60	20.59	15.95	28.72
T	848.61	848.61	848.61	161.96	382.24	184.99	51.07	32.01	26.93	48.48



HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII

PALI HIGHWAY

PROJECT NO. BU-061(7) UNIT 5
STATION 80+50 TO STATION 85+00.00
DETAIL PLAN OF ROADWAY

SCALE: 1"=20' SEPTEMBER, 1957

LAW & WILSON • TOWILL
ARCHITECTS • ENGINEERS • SURVEYORS

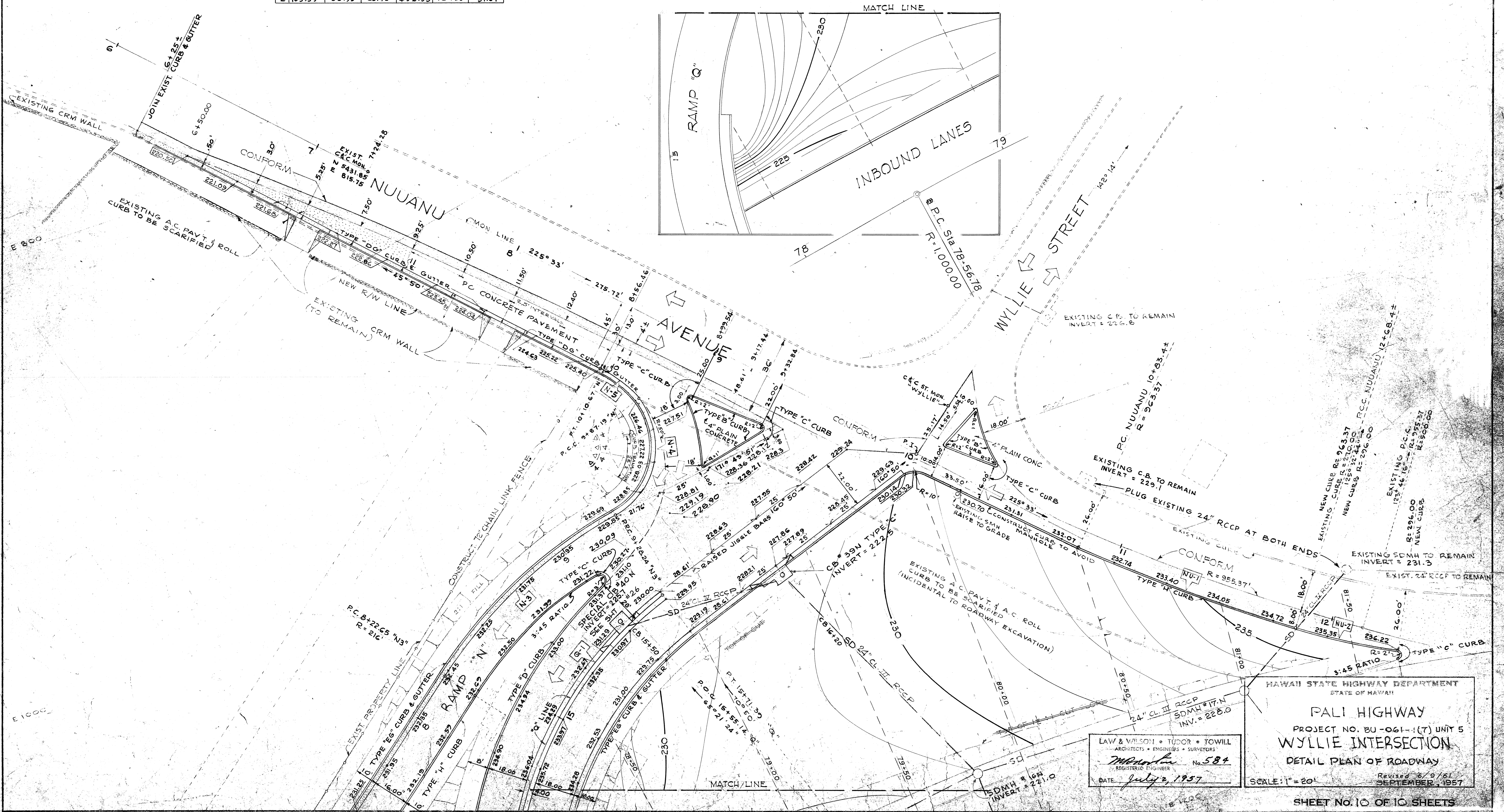
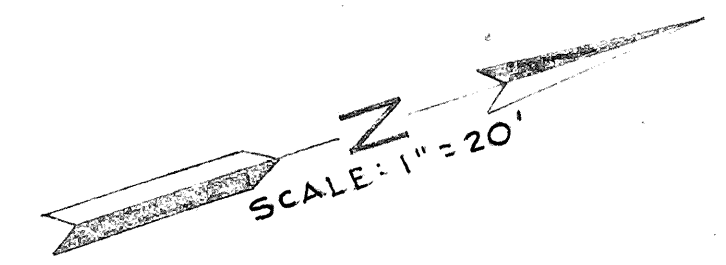
REGISTERED ENGINEER No. 584
DATE July 3, 1957

DATE: 7/3/57
DESIGNED BY: W.S. & S.H.P.
CHECKED BY: C.K.
ORIGINAL PLAN
NOTED BY: C.K.
NO. 584

B.8147.22

CURVE DATA

	N-3	N-4	N-5	Q-1	NU-1	NU-2
Δ	28°00'28"	96°25'48"	26°54'40"	166°00'	11°00'07"	9°53'09"
R	216.00	35.00	50.00	170.00	963.37	296.00
T	53.87	39.21	11.96	1384.54	92.78	25.60
L	105.59	58.95	23.48	492.53	184.99	51.07



DATE	DESIGNED BY	CHECKED BY
ORIGINAL PLAN	DRAWN BY	NOTED BY
NOTE BOOK	QUANTITIES CHECKED BY	

LAW & WILSON • TUDOR • TOWILL
ARCHITECTS • ENGINEERS • SURVEYORS
McDonnell
REGISTERED ENGINEER No. 584
DATE July 3, 1957

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
PALI HIGHWAY
PROJECT NO. BU-061-1(7) UNIT 5
WYLLIE INTERSECTION
DETAIL PLAN OF ROADWAY
Revised 8/9/51
SEPTEMBER, 1957
SCALE: 1" = 20'

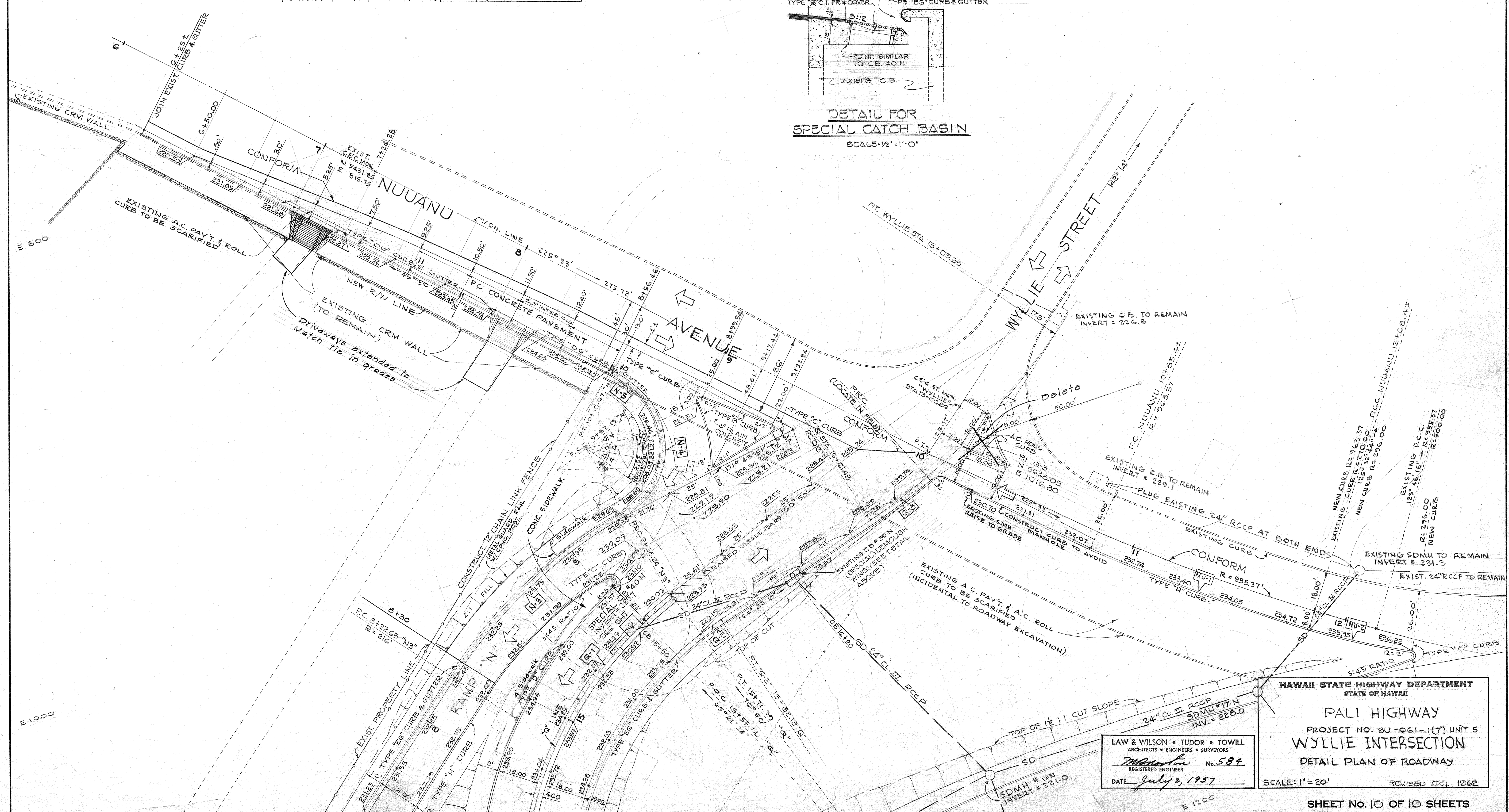
SHEET NO. 10 OF 10 SHEETS

B.8147.23A

THIS SHT. SUPERCEDES SHT. No.
B.8147.23 DTD. SEPT. 1957.

A hand-drawn diagram of a line with arrows at both ends, labeled 'Z' and 'SCALE: 1" = 20''.

DETAIL FOR
SPECIAL CATCH BASIN
SCALE = 1/2" = 1'-0"



ORIGINAL PLAN	SURVEY PLOTTED BY _____ DESIGNED BY <u>hcs</u> DRAWN BY _____ TRACED BY _____ QUANTITIES BY _____ QUANTITIES CHECKED BY _____ CHECKED BY <u>C.N.</u>	DATE _____ " _____ " _____ " _____ " _____ " _____ " _____
NOTE BOOK No.		

3:45 PM

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII

PALI HIGHWAY

PROJECT NO. BU-061-(7) UNIT 5

WYLLIE INTERSECTION

DETAIL PLAN OF ROADWAY

SCALE: 1" = 20'

REVISED OCT. 1962

SHEET No. 10 OF 10 SHEETS

B. S 147. 23 A