

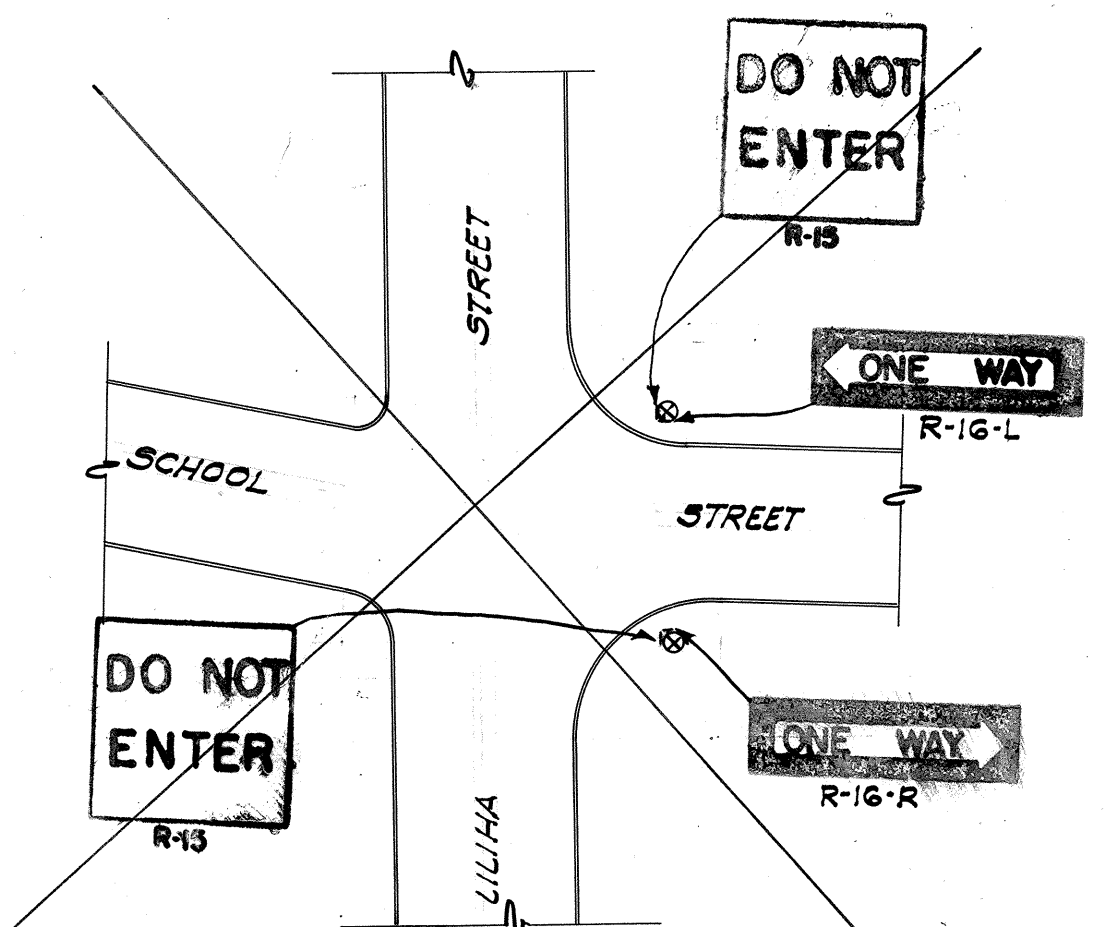
SYMBOLS & ABBREVIATIONS

- EXISTING CURB
- FENCE, CHAIN LINK
- WALL, RETAINING
- METAL GUARD RAIL WITH CONCRETE POSTS
- CEMENT-RUBBLE MASONRY WALL
- RIGHT OF WAY LINE
- MONUMENT
- CURVE REFERENCE
- STORM DRAIN
- P.C.C. PORTLAND CEMENT CONCRETE
- A.C. ASPHALT CONCRETE
- SDMH
- A.C. TRAFFIC ROLL

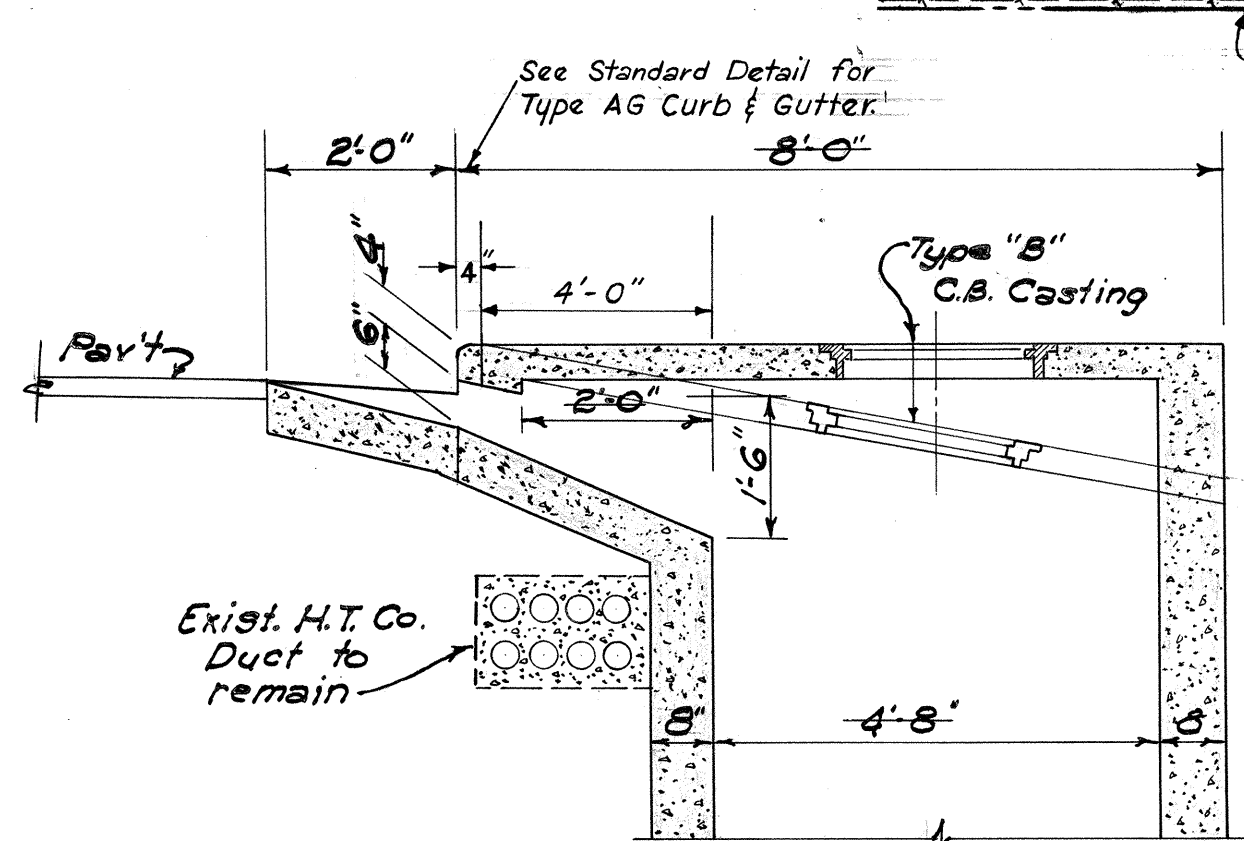
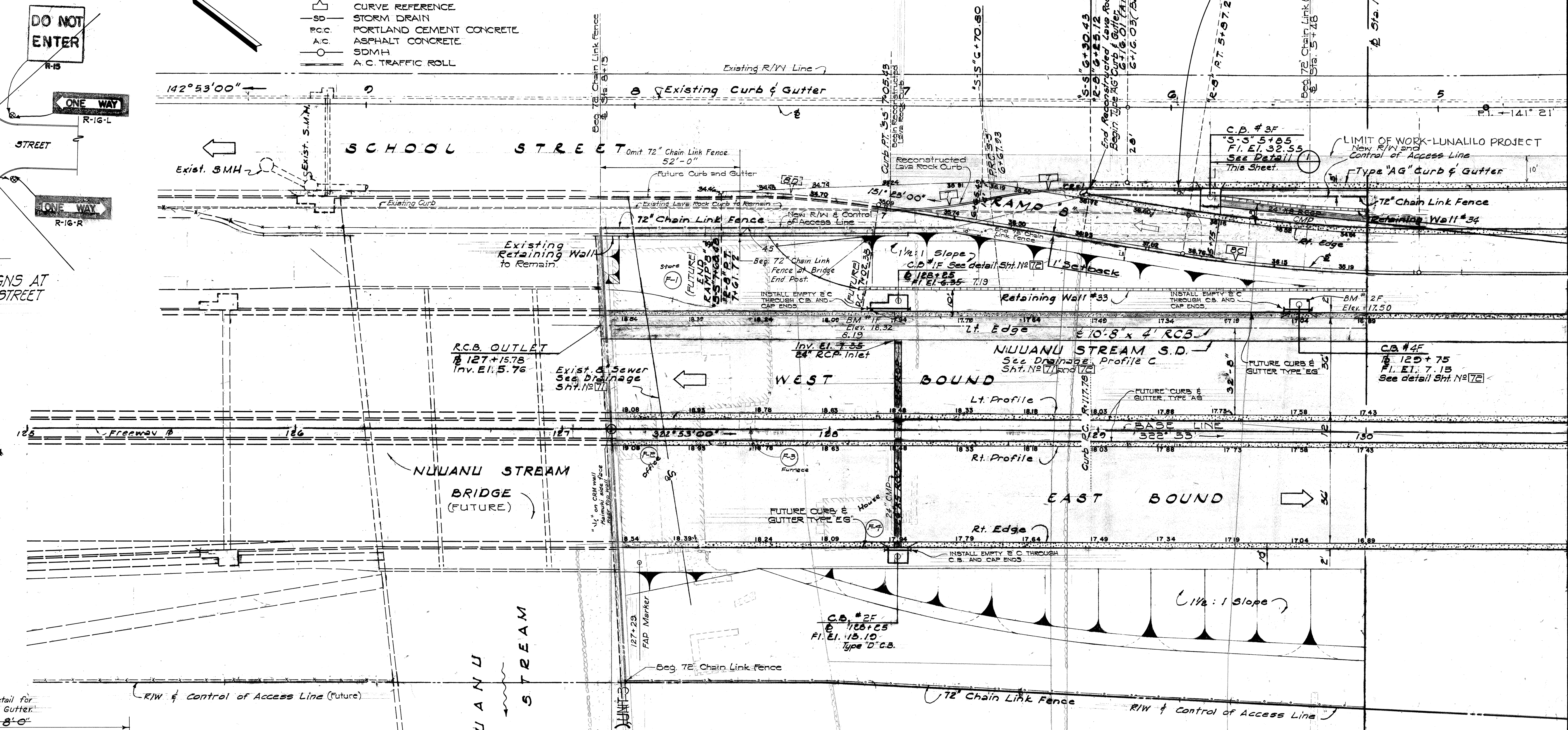
NOTES:

- ALL WORK ITEMS WITH THE EXCEPTION OF THOSE MARKED "FUTURE" SHALL BE COMPLETED UNDER THIS CONTRACT TO SEE TYPICAL ROADWAY SECTIONS SHEET NO. 10
- SEE GRADE SHEETS NO. 10 TO 100 INCLUSIVE FOR SUPPLEMENTARY DETAILS
- FOR LIMITS OF A.C. PAVEMENT, BASE COURSE & CURBSINGS
- FOR STANDARD MANHOLE AND CATCH BASIN DETAILS SEE TERRITORIAL STANDARDS
- THREATS ON CATCH BASINS LOCATED AT SECTIONS WHERE THE FINISHED GRADE IS AT TOP OF SELECT BORROW SUBBASE SHALL BE REVISED AS SHOWN ON SHEET NO. 10
- OMIT RECESSES ON TYPE "A" CURB

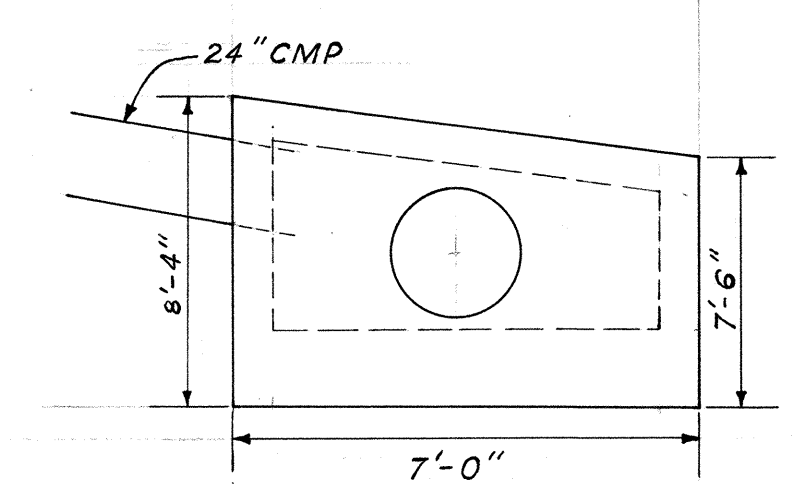
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(1)	1955	10	145



PLAN OF TRAFFIC SIGNS AT EXIST. LILIHA - SCHOOL STREET INTERSECTION



DETAIL 1
CATCH BASIN NO. 3F
Scale: 1/2"=1'-0"



PLAN VIEW
No Scale

CURVE DATA

Curve	Δ	R	T	L
(T)	12° 10' 38"	177.78	18.96	37.78
(8d)	8° 30' 00"	400.00	29.73	59.34
(8c)	8° 30' 00"	600.00	44.59	89.01

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
LUNALILO FREEWAY
PROJECT NO. F-072-1(1), UNIT 3
STATION 127+17.95 TO STA. 130+00
DETAIL PLAN OF ROADWAY

BELT, COLLINS & ASSOC., LTD.
Civil and Structural Engineers

SCALE: 1"=20' SEPTEMBER, 1955

SHEET NO. 1 OF 7 SHEETS

\$173 (1).10

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(1)	1958	11	178

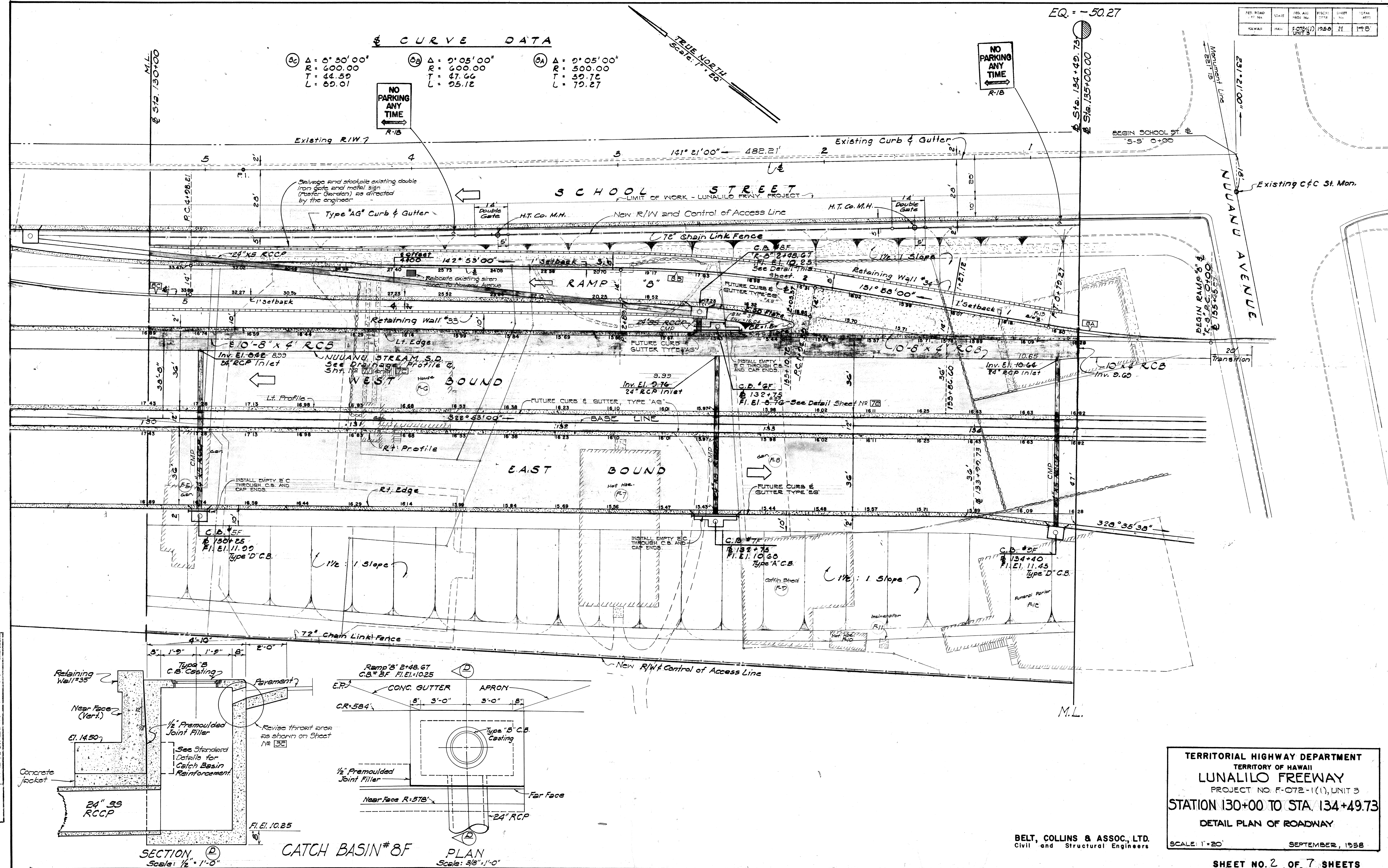
EQ. = -50.27

CURVE DATA

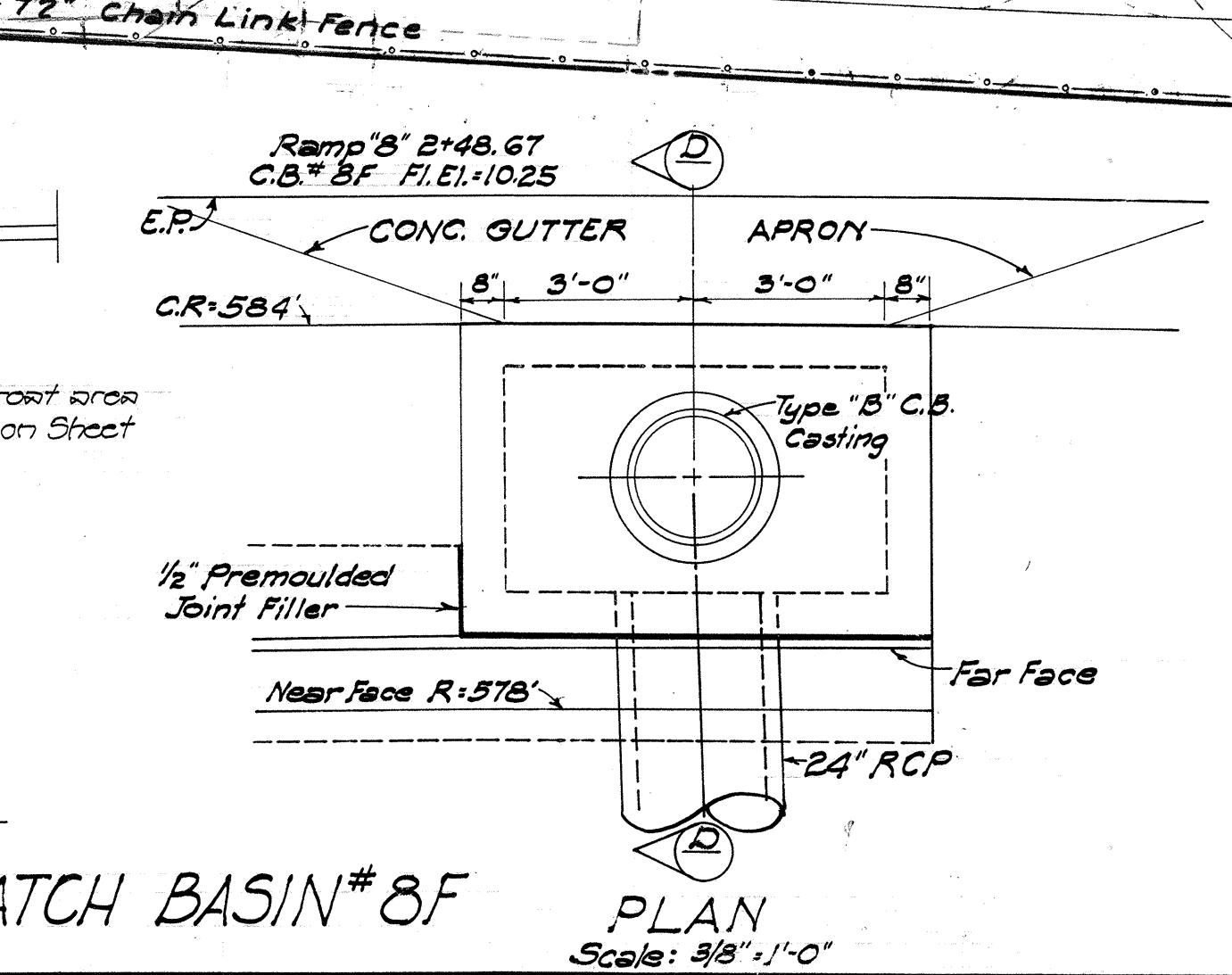
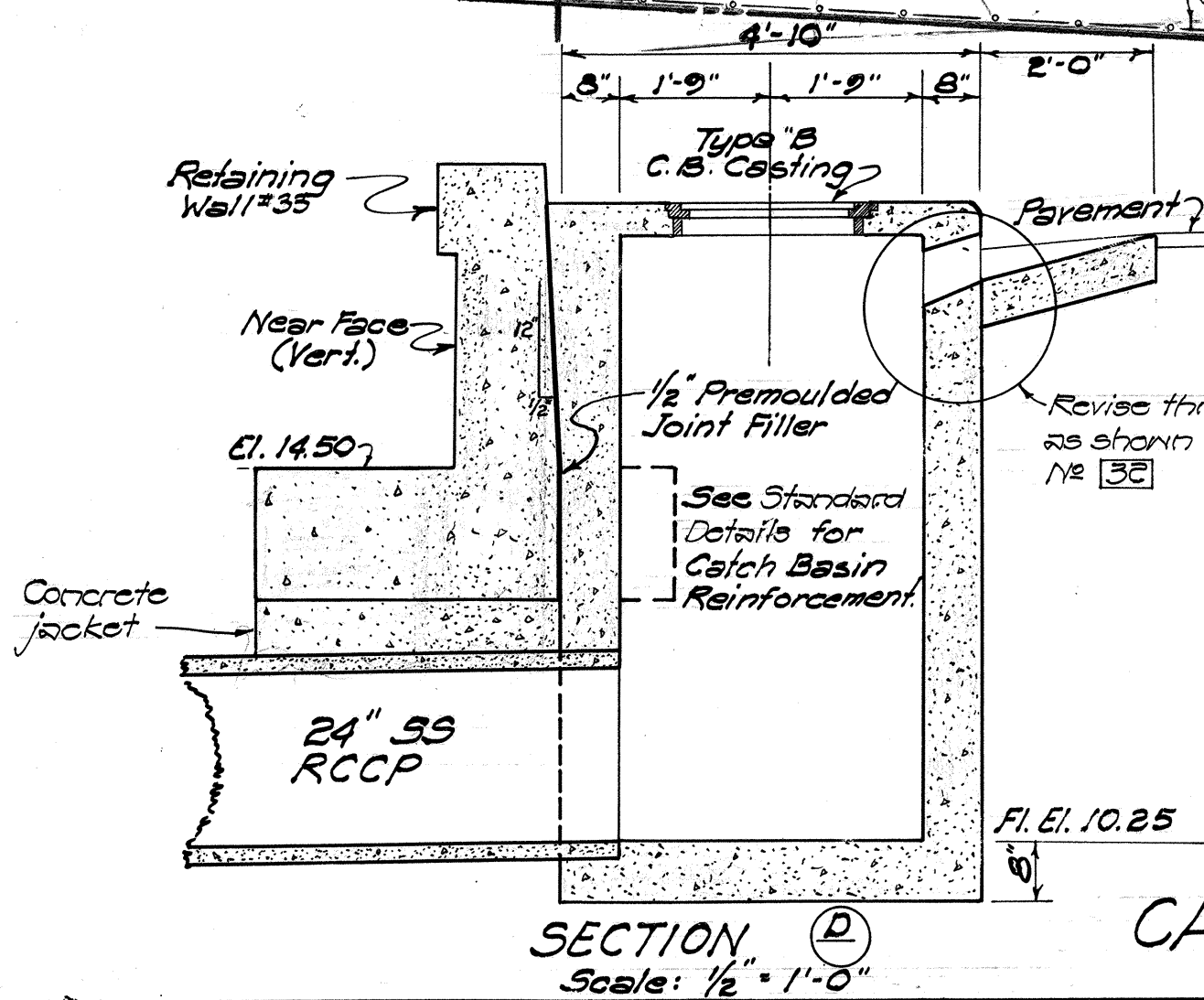
- 3C Δ = 6° 30' 00" R = 600.00 T = 44.59 L = 69.01
- 3B Δ = 2° 05' 00" R = 600.00 T = 47.66 L = 95.12
- 3A Δ = 2° 05' 00" R = 500.00 T = 39.72 L = 79.27

NO PARKING ANY TIME R-18

NO PARKING ANY TIME R-18

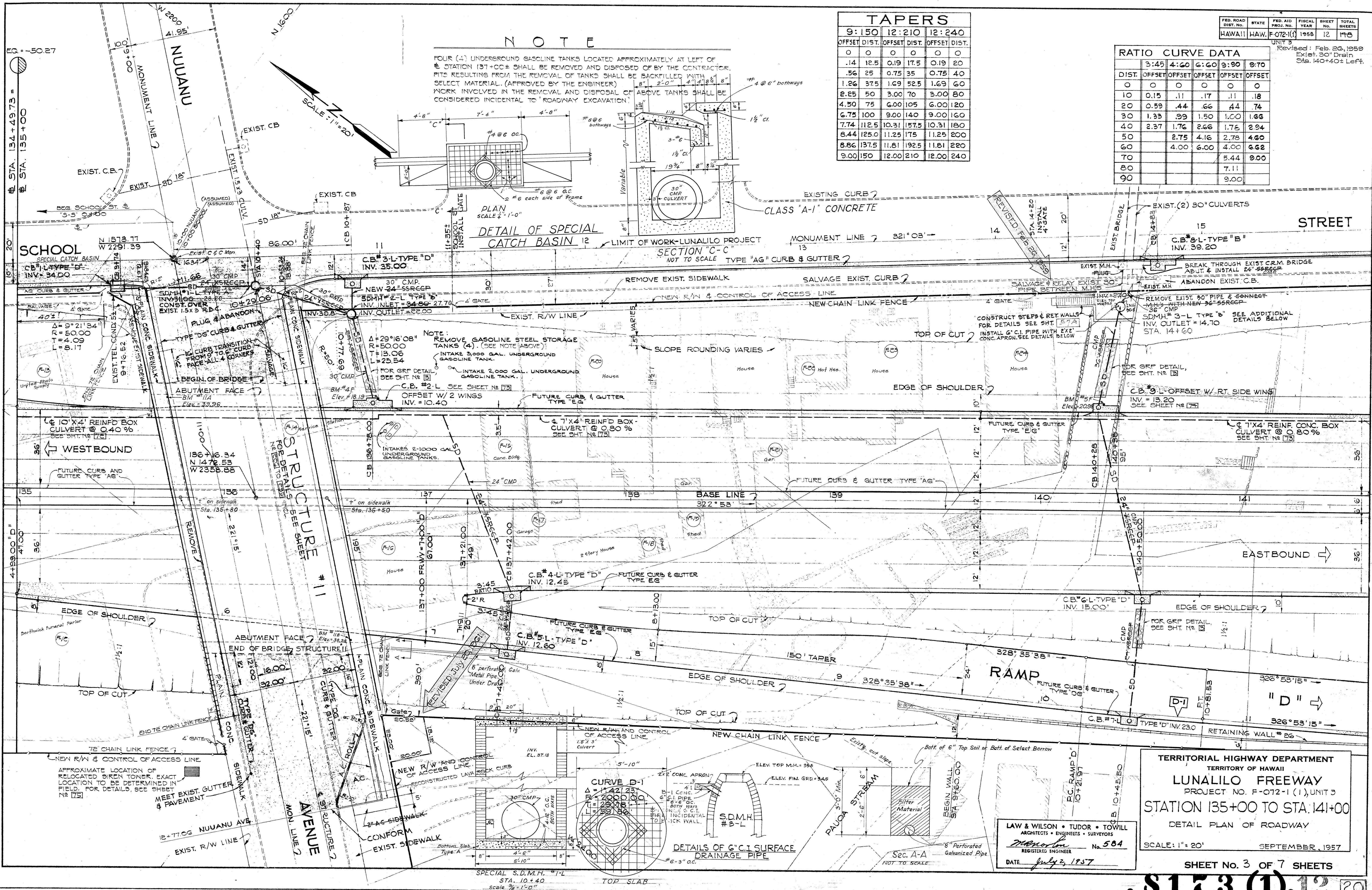


DATE	DESIGNED BY	CHECKED BY
	PLANNED BY	NOTED BY
	QUANTITIES BY	QUANTITIES CHECKED BY
	NO.	NO.



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
LUNALILO FREEWAY
PROJECT NO. F-072-1(1), UNIT 3
STATION 130+00 TO STA. 134+49.73
DETAIL PLAN OF ROADWAY
SCALE: 1" = 20' SEPTEMBER, 1958

BELT, COLLINS & ASSOC., LTD.
Civil and Structural Engineers



TAPERS					
9:150	12:210	12:240	9:150	12:210	12:240
0	0	0	0	0	0
.14	12.5	0.19	17.5	0.19	20
.56	25	0.75	35	0.75	40
1.26	37.5	1.69	52.5	1.69	60
2.25	50	3.00	70	3.00	80
4.50	75	6.00	105	6.00	120
6.75	100	9.00	140	9.00	160
7.74	112.5	10.31	157.5	10.31	180
8.44	125.0	11.25	175	11.25	200
8.86	137.5	11.81	192.5	11.81	220
9.00	150	12.00	210	12.00	240

RATIO CURVE DATA					
DIST.	3:45	4:60	6:60	9:90	9:70
0	0	0	0	0	0
10	0.15	.11	.17	.11	.18
20	0.59	.44	.66	.44	.74
30	1.33	.99	1.50	1.00	1.66
40	2.37	1.76	2.66	1.76	2.94
50		2.75	4.16	2.78	4.60
60		4.00	6.00	4.00	6.62
70				5.44	9.00
80				7.11	
90				9.00	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(1)	1955	12	173

UNIT 3
Revised: Feb. 20, 1959
Exist. 30" Drain
Sta. 140+40 Left.

DESIGNED BY	DATE
DRAWN BY	17/57
CHECKED BY	
NOTED BY	
QUANTITIES CHECKED BY	
NO.	

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

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
LUNALILO FREEWAY
PROJECT NO. F-072-1(1), UNIT 3
STATION 135+00 TO STA. 141+00
DETAIL PLAN OF ROADWAY
SCALE: 1" = 20'
SEPTEMBER, 1957

SHEET No. 3 OF 7 SHEETS

REVISED TRACING JULY 20, 1961

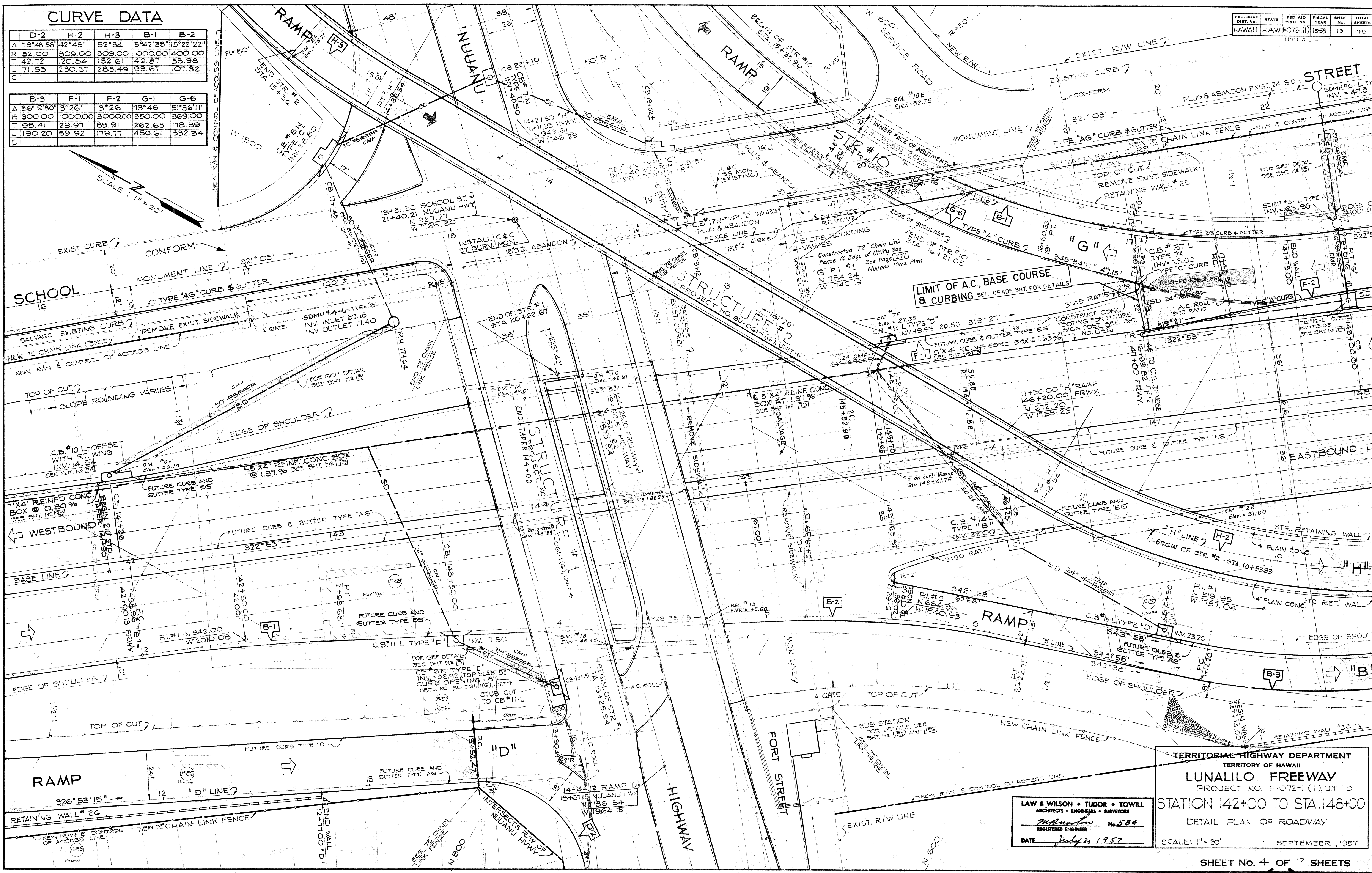
8173 (1).12 20

CURVE DATA

D-2	H-2	H-3	B-1	B-2
Δ 78°48'56"	42°43'	52°34'	5°42'38"	15°22'22"
R 52.00	309.00	309.00	1000.00	400.00
T 42.72	120.84	152.61	49.87	53.98
L 71.53	230.37	283.49	99.67	107.32

B-3	F-1	F-2	G-1	G-6
Δ 36°19'30"	3°26'	3°26'	73°46'	51°36'11"
R 300.00	1000.00	3000.00	350.00	369.00
T 98.41	29.97	89.91	262.63	178.39
L 190.20	59.92	179.77	450.61	332.34

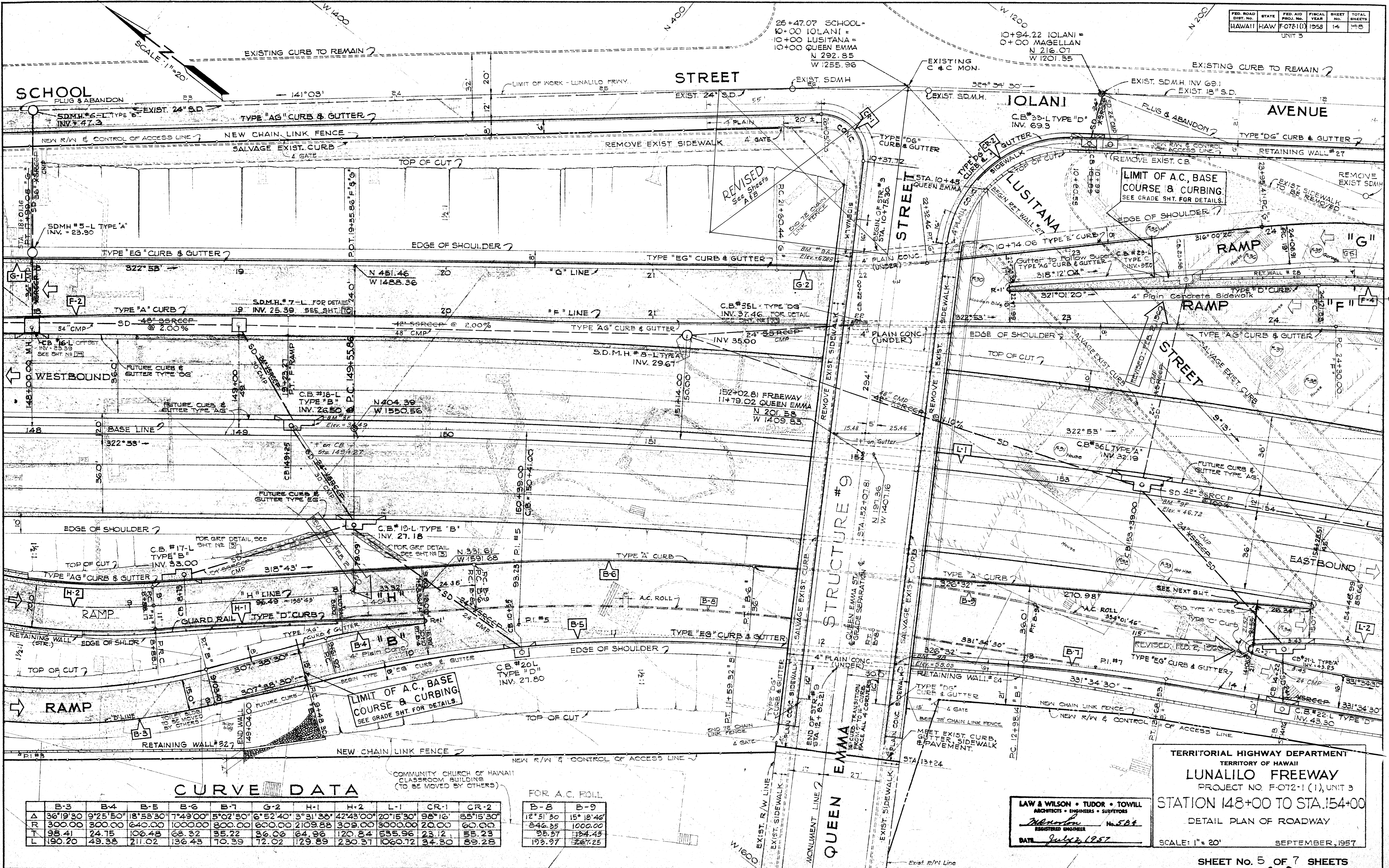
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	FOT21(1)	1958	13	148



DATE: 1/10/57
 SURVEY PLOTTED BY: [Signature]
 PLAN DRAWN BY: [Signature]
 TRACED BY: [Signature]
 QUANTITIES CHECKED BY: [Signature]
 NOTE BOOK NO. 584

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
LUNALILO FREEWAY
 PROJECT NO. F-072-1 (1), UNIT 3
 STATION 142+00 TO STA. 148+00
 DETAIL PLAN OF ROADWAY
 SCALE: 1" = 20'
 SEPTEMBER, 1957

LAW & WILSON • TUDOR • TOWILL
 ARCHITECTS • ENGINEERS • SURVEYORS
 REGISTERED ENGINEER
 No. 584
 DATE: July 22, 1957



SURVEY PLOTTED BY: _____
 DATE: 1/15/57
 DRAWN BY: R.E.T.
 CHECKED BY: C.V.
 NOTE BOOK NO. _____
 QUANTITIES CHECKED BY: _____

CURVE DATA

	B-3	B-4	B-5	B-6	B-7	G-2	H-1	H-2	L-1	CR-1	CR-2
Δ	36°19'30"	9°25'50"	18°53'30"	7°49'00"	5°02'30"	6°52'40"	3°31'38"	42°43'00"	20°15'30"	98°16'	85°15'30"
R	300.00	300.00	640.00	1000.00	800.00	600.00	2109.88	309.00	3000.00	20.00	60.00
T	98.41	24.75	106.48	68.32	35.22	36.06	64.96	120.84	55.96	23.12	55.23
L	190.20	49.38	211.02	136.43	70.39	72.02	129.89	230.37	1060.72	34.30	89.28

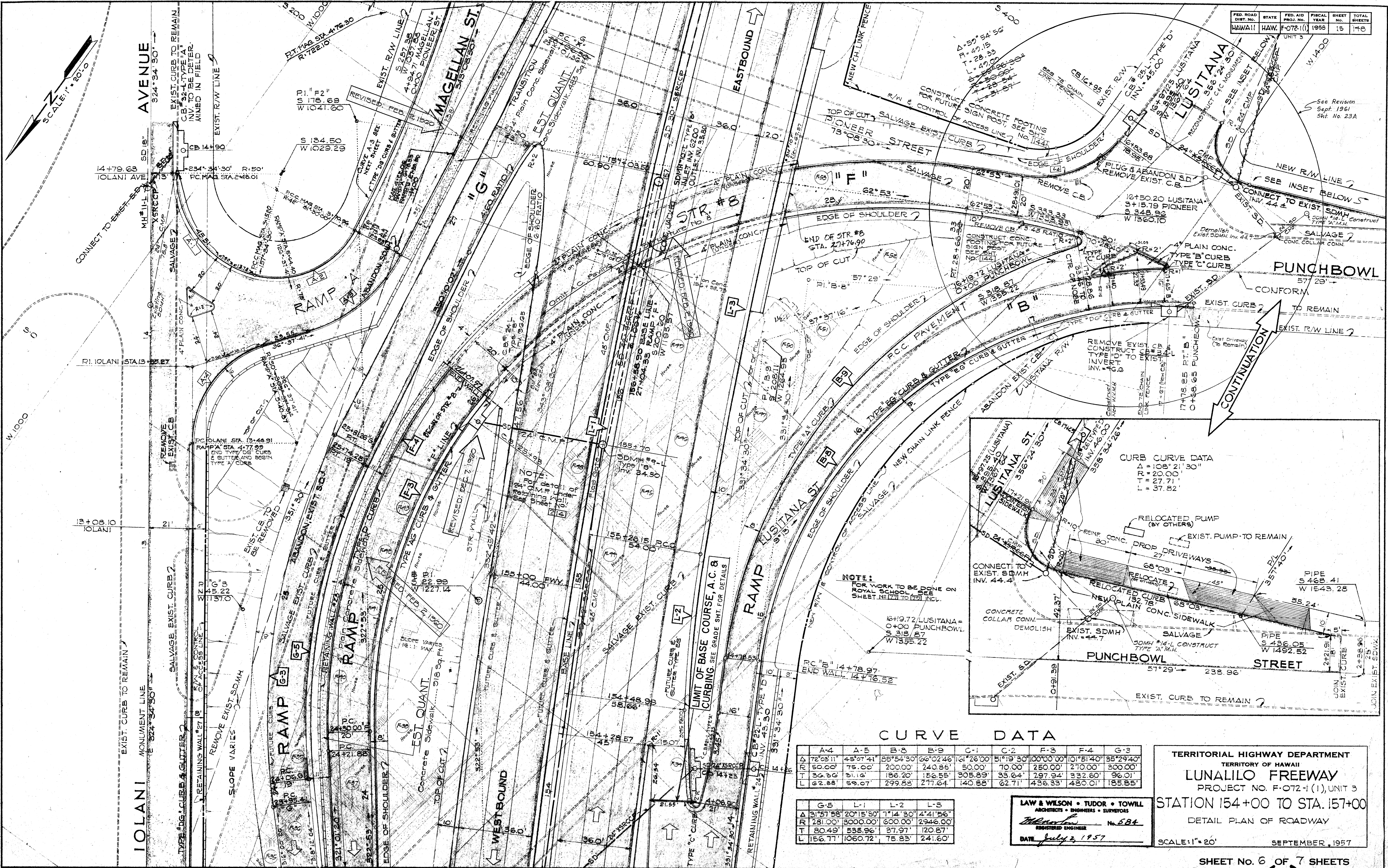
FOR A.C. ROLL

	B-8	B-9
Δ	12°51'30"	15°18'46"
R	846.35	1000.00
T	35.57	124.43
L	193.97	267.25

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
LUNALILO FREEWAY
 PROJECT NO. F-072-1(1), UNIT 3
STATION 148+00 TO STA. 154+00
 DETAIL PLAN OF ROADWAY
 SCALE: 1" = 20'
 SEPTEMBER, 1957

LAW & WILSON • TUDOR • TOWILL
 ARCHITECTS • ENGINEERS • SURVEYORS
 REGISTERED ENGINEER
 No. 586
 DATE: July 2, 1957

SURVEY PLOTTED BY: DATE: 1/5/57
 ORIGINAL PLAN: F.B.T.
 DRAWN BY: F.B.T.
 QUANTITIES BY: F.B.T.
 NOTE BOOK: F.B.T.
 CHECKED BY: C.Y.
 No.



NOTE:
 FOR WORK TO BE DONE ON
 ROADWAY TO BE DONE ON
 SHEET 157+00 TO 158+00.

CURVE DATA

	A-4	A-5	B-3	B-9	C-1	C-2	F-3	F-4	G-3
Δ	72°08'11"	45°07'41"	85°54'30"	66°02'46"	101°26'00"	51°19'30"	100°00'00"	101°51'40"	35°29'40"
R	50.00'	75.00'	200.00'	240.85'	50.00'	70.00'	250.00'	270.00'	300.00'
T	34.26'	21.16'	186.20'	156.55'	305.89'	33.64'	297.94'	332.60'	96.01'
L	62.88'	59.07'	299.83'	277.64'	140.88'	62.71'	436.33'	480.01'	185.85'

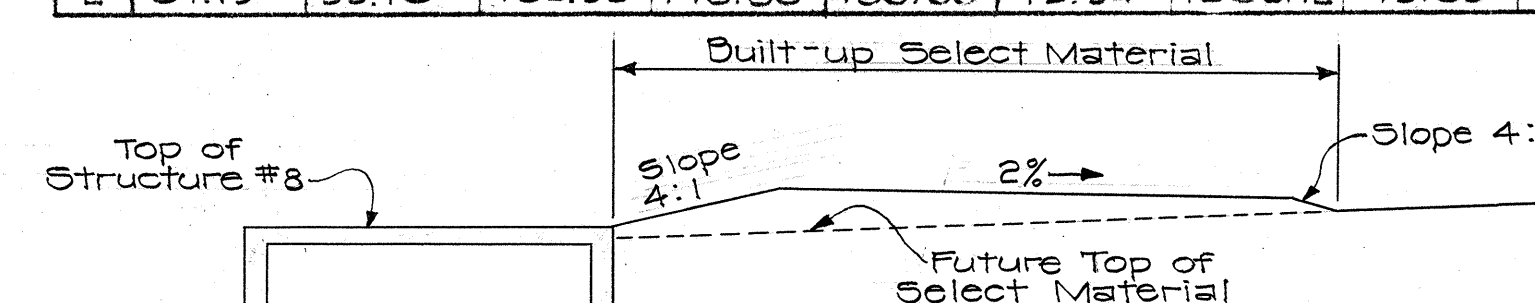
	G-5	L-1	L-2	L-3
Δ	31°57'58"	20°15'50"	71°14'30"	4°41'56"
R	25.00'	3000.00'	600.00'	2346.00'
T	80.49'	535.96'	37.97'	120.87'
L	156.77'	1060.72'	75.85'	241.60'

LAW & WILSON • TUDOR • TOWILL
 ARCHITECTS • ENGINEERS • SURVEYORS
 No. 584
 DATE: July 2, 1957

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
LUNALILO FREEWAY
 PROJECT NO. F-072-1(1), UNIT 3
STATION 154+00 TO STA. 157+00
 DETAIL PLAN OF ROADWAY
 SCALE: 1" = 20'
 SEPTEMBER, 1957

	A-1	A-2	A-3	C-1	F-3	G-4	L-1	L-2	L-3	M-182
Δ	77°00'00	72°44'33	8°21'30	161°28'	100°00'	8°21'30	20°15'30	4°44'30	4°41'56	3°46'39
R	50.00	42	722.10	50.00	250.00	500.00	3000.00	600.00	2946.00	1200.00
T	39.77	32.86	52.76	305.89	297.94	36.53	535.96	37.97	120.87	39.57
L	67.19	55.76	105.33	404.85	436.33	72.94	1020.72	75.83	241.60	79.12

	A - G
Δ	$8^{\circ}12'30''$
R	580.40
T	42.41
L	84.67



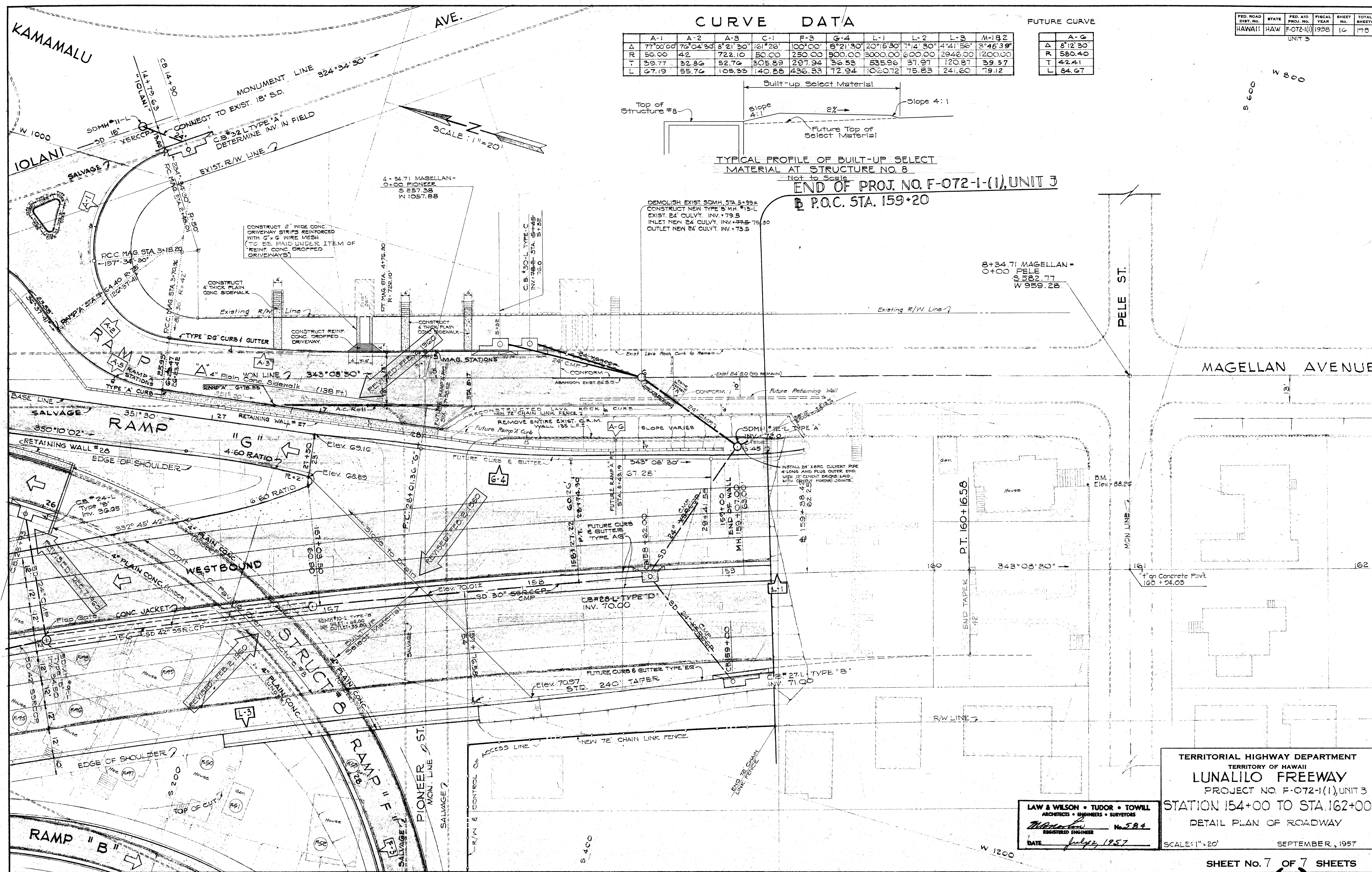
TYPICAL PROFILE OF BUILT-UP SELECT
MATERIAL AT STRUCTURE NO. 8

END OF PROJ NO F-072-1-(1).UNIT 3

B P.O.C. STA. 159+20

DEMOLISH EXIST. SDMH, STA. 5+99±
CONSTRUCT NEW TYPE "B" MH. #13-L
EXIST. 24" CULVT. INV. = 79.5
INLET NEW 24" CULVT. INV. = 77.5-75.5
OUTLET NEW 24" CULVT. INV. = 73.5

8+34.71 MAGELLAN
0+00 PELE
S 582.77
W 959.28



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

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
LUNALILO FREEWAY
PROJECT NO. F-072-1(1), UNIT 3
STATION 154+00 TO STA. 162+00
DETAIL PLAN OF ROADWAY

LAW & WILSON • TUDOR • TOWNE
ARCHITECTS • ENGINEERS • SURVEYORS
W. Wilson No. 589
REGISTERED ENGINEER
DATE July 2, 1957

SCALE: 1"=20' SEPTEMBER, 1955

SHEET No. 7 OF 7 SHEETS

.S173 (1).16 24

(REVISED TRACING - FEB. 2, 1960 - DEC. 7, 1960)