

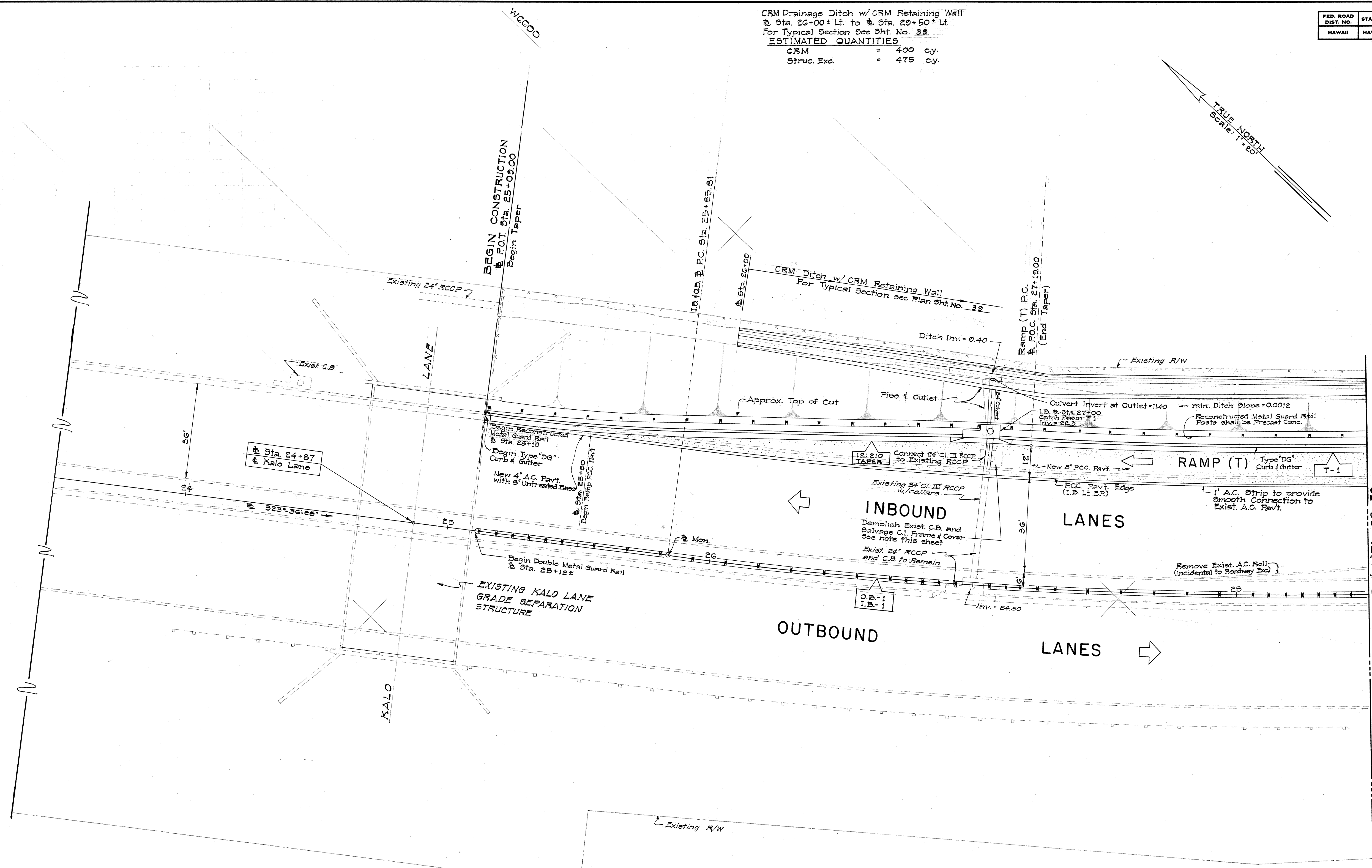
TAPER

12:210
Dist. %inft.
0 0
17.5 0.19
35 0.75
52.5 1.69
70 3
105 6
140 9
157.5 10.31
175 11.25
192.5 11.81
270 12

CURVE DATA

CURVE	OB-1	T-1	IB-1
Δ	9°33'17"	5°36'11"	20°58'00"
R	1209.86'	1855.86'	1209.86'
T	159.62'	90.82'	353.40'
L	218.49'	161.49'	608.89'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HA-1-1(5)	1965	17	276



I.B. & STA. 27+00

Construct: Type 'B' C.B.
Install: 24" Cl. III RCCP or 14 ga. CGMP
Install: 24" Cl. III RCCP

ESTIMATED QUANTITIES

Class 'A-1' Conc.	=	5.0	c.y.
Reinf. Steel	=	108	lbs.
24" Cl. III RCCP or 14 ga. CGMP	=	22	lin. ft.
24" Cl. III RCCP	=	13	lin. ft.
Struc. Exc.	=	18	c.y.
Salvaged Cl. Frame & Cover	=	1	ea.

Demolishing existing C.B. and Cutting and Plugging of abandoned pipes to be incidental to Roadway Exc. Class 'B-1' concrete shall be used for plugging abandoned pipes.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY

Sta. 25+00 TO Sta. 28+50

FAI Proj. No. I-HI-1(5):24, Unit 2

Scale: 1"=20' Date: May, 1965

SHEET NO. 1 OF 13 SHEETS

FREEWAY STA. 23+50 TO 28+50

CURVE DATA						
CURVE	OB-1	IB-1	IB-4	T-1	T-2	T-3
Δ	9°33'17"	20°58'00"	13°12'14"	5°36'11"	11°47'46"	7°08'42"
R	1909.86	1909.86	1322.14	1855.86	632.23	222.63
T	159.62	353.40	87.56	90.82	45.67	24.86
L	318.49	698.89	170.89	181.49	90.89	49.74

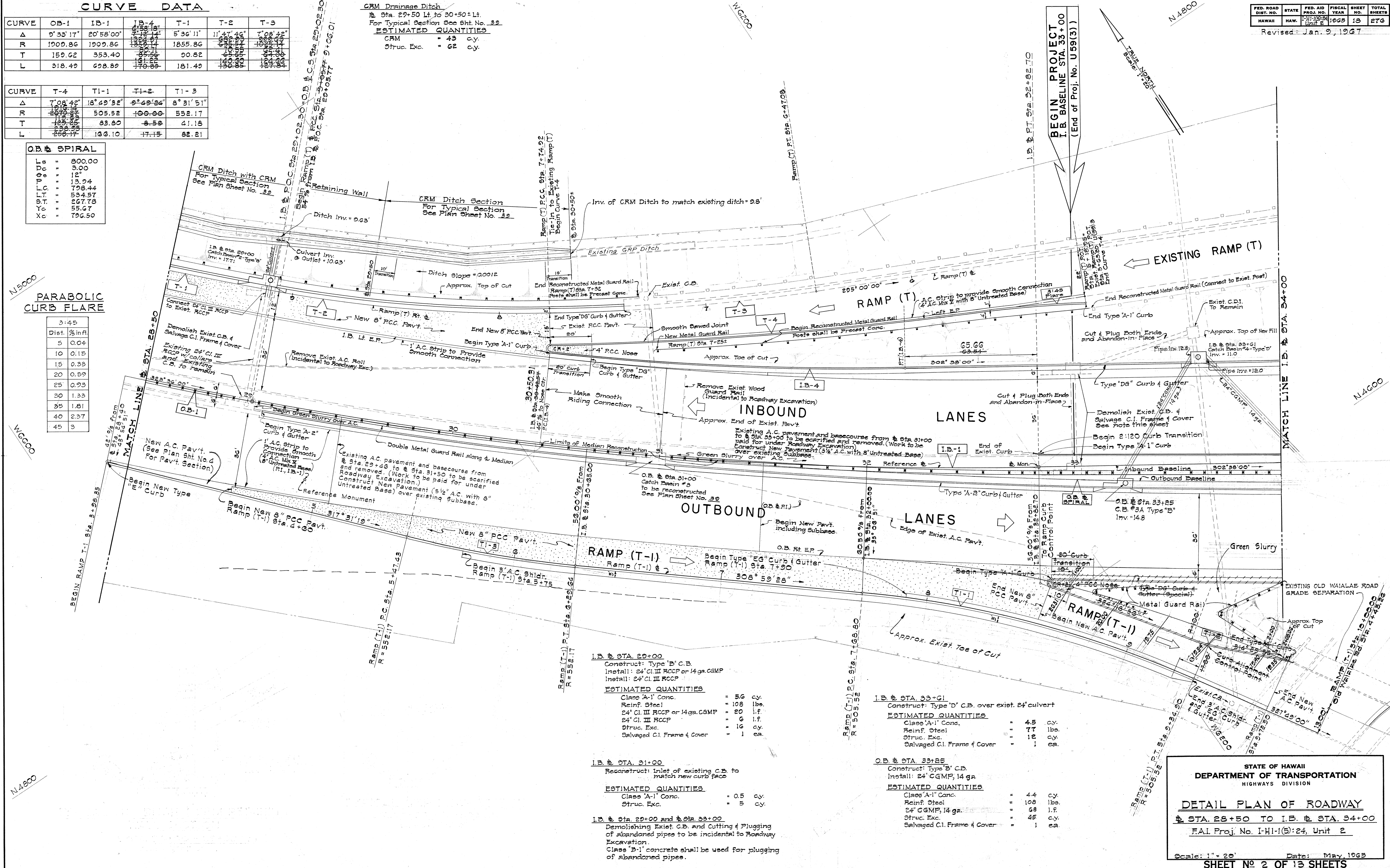
CURVE	T-4	T1-1	T1-2	T1-3
Δ	7°08'42"	18°49'32"	9°49'34"	8°31'51"
R	2016.14	505.52	400.00	552.17
T	125.25	83.80	8.50	41.18
L	250.49	167.60	17.00	82.36

O.B. SPIRAL	
L	800.00
P	0.00
U	13.04
L.C.	798.44
S.T.	534.57
Yc	267.78
Xc	55.67
	796.50

PARABOLIC CURB FLARE

9:45
Dist. % in ft
5 0.04
10 0.15
15 0.33
20 0.59
25 0.93
30 1.33
35 1.81
40 2.37
45 3

CRM Drainage Ditch
Sta. 27+50 L to 30+50+14.
For Typical Section See Sht. No. 32
ESTIMATED QUANTITIES
CRM = 43 cy.
Struc. Exc. = 62 cy.



1.B. STA. 29+00
Construct: Type 'B' C.B.
Install: 24" CI III RCCP or 14 ga. CGMP
Install: 24" CI III RCCP
ESTIMATED QUANTITIES
Class 'A-1' Conc. = 5.6 cy.
Reinf. Steel = 108 lbs.
24" CI III RCCP or 14 ga. CGMP = 20 l.f.
24" CI III RCCP = 6 l.f.
Struc. Exc. = 16 cy.
Salvaged C.I. Frame & Cover = 1 ea.

1.B. STA. 31+00
Reconstruct: Inlet of existing C.B. to match new curb face
ESTIMATED QUANTITIES
Class 'A-1' Conc. = 0.5 cy.
Struc. Exc. = 5 cy.

1.B. STA. 29+00 and STA. 33+00
Demolishing Exist. C.B. and Cutting & Plugging of Abandoned pipes to be incidental to Roadway Excavation.
Class 'B-1' concrete shall be used for plugging of abandoned pipes.

1.B. STA. 33+01
Construct: Type 'D' C.B. over exist. 24" culvert
ESTIMATED QUANTITIES
Class 'A-1' Conc. = 4.5 cy.
Reinf. Steel = 77 lbs.
Struc. Exc. = 12 cy.
Salvaged C.I. Frame & Cover = 1 ea.

O.B. STA. 33+25
Construct: Type 'B' C.B.
Install: 24" CGMP, 14 ga.
ESTIMATED QUANTITIES
Class 'A-1' Conc. = 4.4 cy.
Reinf. Steel = 108 lbs.
24" CGMP, 14 ga. = 68 l.f.
Struc. Exc. = 48 cy.
Salvaged C.I. Frame & Cover = 1 ea.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY
I.B. STA. 28+50 TO I.B. STA. 34+00
F.A.I. Proj. No. I-H-1(5):24, Unit 2
Scale: 1" = 20'
Date: May, 1965

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

CURVE DATA

CURVE	WL-0-1	WL-0-2	WL-1-1	WL-1-2	WL-1-3	IB-2
Δ	42°36'35"	3°55'00"	54°11'11"	51°42'40"	4°30'00"	0°35'17"
R	65.00'	1000.00'	150.00'	152.77'	1400.00'	20,000.00'
T	25.35'	34.19'	76.74'	74.03'	55.01'	102.64'
L	48.34'	68.36'	141.86'	137.88'	109.96'	205.27'

O.B. SPIRAL
Ls = 800.00'
Dc = 3.00'
Φ = 12°
P = 13.94'
LC = 798.44'
LT = 534.57'
ST = 267.78'
Yc = 59.67'
Xc = 796.50'

TAPERS

Dist.	% Inft	Dist.	% Inft	Dist.	% Inft
4.54	0	4.90	0	12.08	0
4.5	0.06	7.5	0.06	9	0.19
7	0.25	15	0.25	18	0.75
13.5	0.56	22.5	0.56	27	1.69
18	1	30	1	36	3
27	2	45	2	54	6
36	3	60	3	72	9
40.5	3.44	67.5	3.44	81	10.31
45	3.75	75	3.75	90	11.25
49.5	3.94	82.5	3.94	99	11.81
54	4	90	4	108	12

PARABOLIC CURB FLARE

Dist.	% Inft
3.45	0
5	0.04
10	0.15
15	0.33
20	0.57
25	0.93
30	1.33
35	1.81
40	2.37
45	3

I.B. STA. 36+50
Construct: Type "C" C.B.
Install: 24" CGMP, 14 ga.
ESTIMATED QUANTITIES
Class A-1 Conc. = 3.6 cy
Reinf. Steel = 324 lbs
24" CGMP, 14 ga. = 74 l.f.
Struc. Exc. = 46 cy
Type "A" C.I. Frame & Cover = 1 ea.

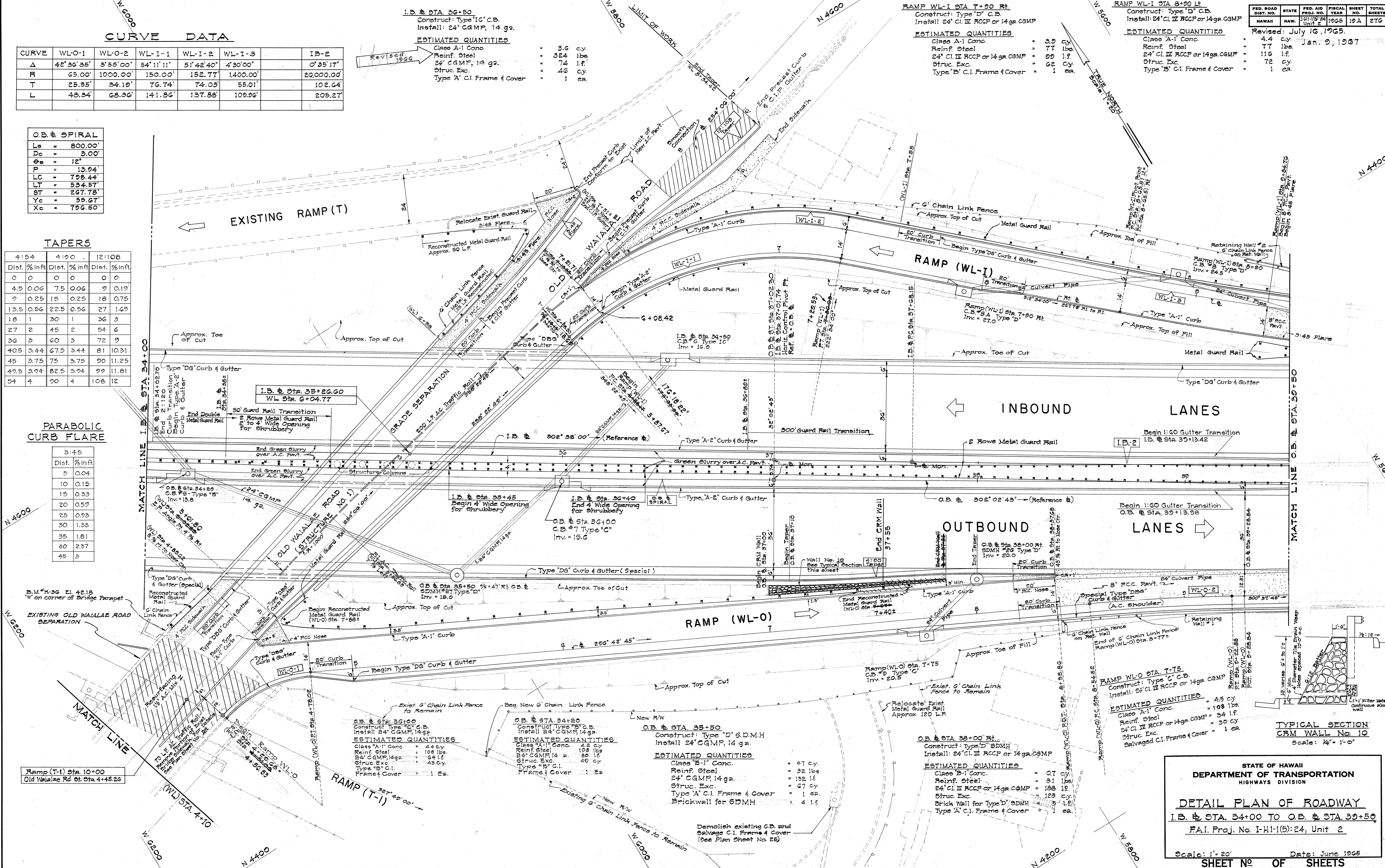
RAMP WL-1 STA. 7+00 Rt.
Construct: Type "D" C.B.
Install: 24" C.I. RCCP or 14ga. CGMP
ESTIMATED QUANTITIES
Class A-1 Conc. = 3.9 cy
Reinf. Steel = 77 lbs
24" C.I. RCCP or 14ga. CGMP = 99 l.f.
Struc. Exc. = 62 cy
Type "B" C.I. Frame & Cover = 1 ea.

RAMP WL-1 STA. 8+00 Lt.
Construct: Type "D" C.B.
Install: 24" C.I. RCCP or 14ga. CGMP
ESTIMATED QUANTITIES
Class A-1 Conc. = 4.4 cy
Reinf. Steel = 77 lbs
24" C.I. RCCP or 14ga. CGMP = 116 l.f.
Struc. Exc. = 72 cy
Type "B" C.I. Frame & Cover = 1 ea.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	PH-10-24	1965	19A	276

Revised: July 16, 1965

Jan. 9, 1967



DATE
DESIGNED BY
CHECKED BY
ORIGINAL PLAN
NOTED BOOK
QUANTITIES BY
No.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY
I.B. STA. 34+00 TO O.B. STA. 39+50
F.A.I. Proj. No. I-H-1(5):24, Unit 2

Scale: 1" = 20'
Date: June 1965

SHEET NO. 19A OF 276 SHEETS

CURVE DATA								
CURVE	IB-2	IB-3	HI-1-1	HI-1-2	HI-1-3	WL-1-3	WL-1-4	WL-1-5
Δ	0°35'17"	2°46'21"	65°45'36"	49°30'00"	101°18'04"	4°30'00"	6°01'17"	6°01'17"
R	20000.00'	20000.00'	868.00'	760.00'	760.00'	1400.00'	1000.00'	631.43'
T	102.64'	217.80'	561.10'	350.36'	926.91'	55.01'	52.59'	33.21'
L	205.27'	435.52'	996.23'	656.59'	1343.71'	105.96'	105.99'	66.36'

RAMP WL-1 STA. 11+40.03
Construct: Special C.B.
Install: 24" C.I. III RCCP or 14 ga. CGMP
Catch Basin Conc. & Reinf. Steel included in Retaining Wall #3 quantities
For detail see aht no. 111

ESTIMATED QUANTITIES
24" C.I. III RCCP or 14 ga. CGMP = 23 l.f.
Type 'A' C.I. Frame & Cover = 1 ea.
Struc. Exc. = 12 c.y.

RAMP WL-0 STA. 11+36
Construct: Type 'B' C.B.
Install: 24" C.I. III RCCP or 14 ga. CGMP

ESTIMATED QUANTITIES
Class 'A-1' Conc. = 6.0 c.y.
Reinf. Steel = 324 lbs.
24" C.I. III RCCP or 14 ga. CGMP = 13 l.f.
Struc. Exc. = 9 c.y.
Type 'A' C.I. Frame & Cover = 1 ea.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	111(1)(5) Unit 2	1965	20A	276

Revised: July 16, 1965
August 17, 1967

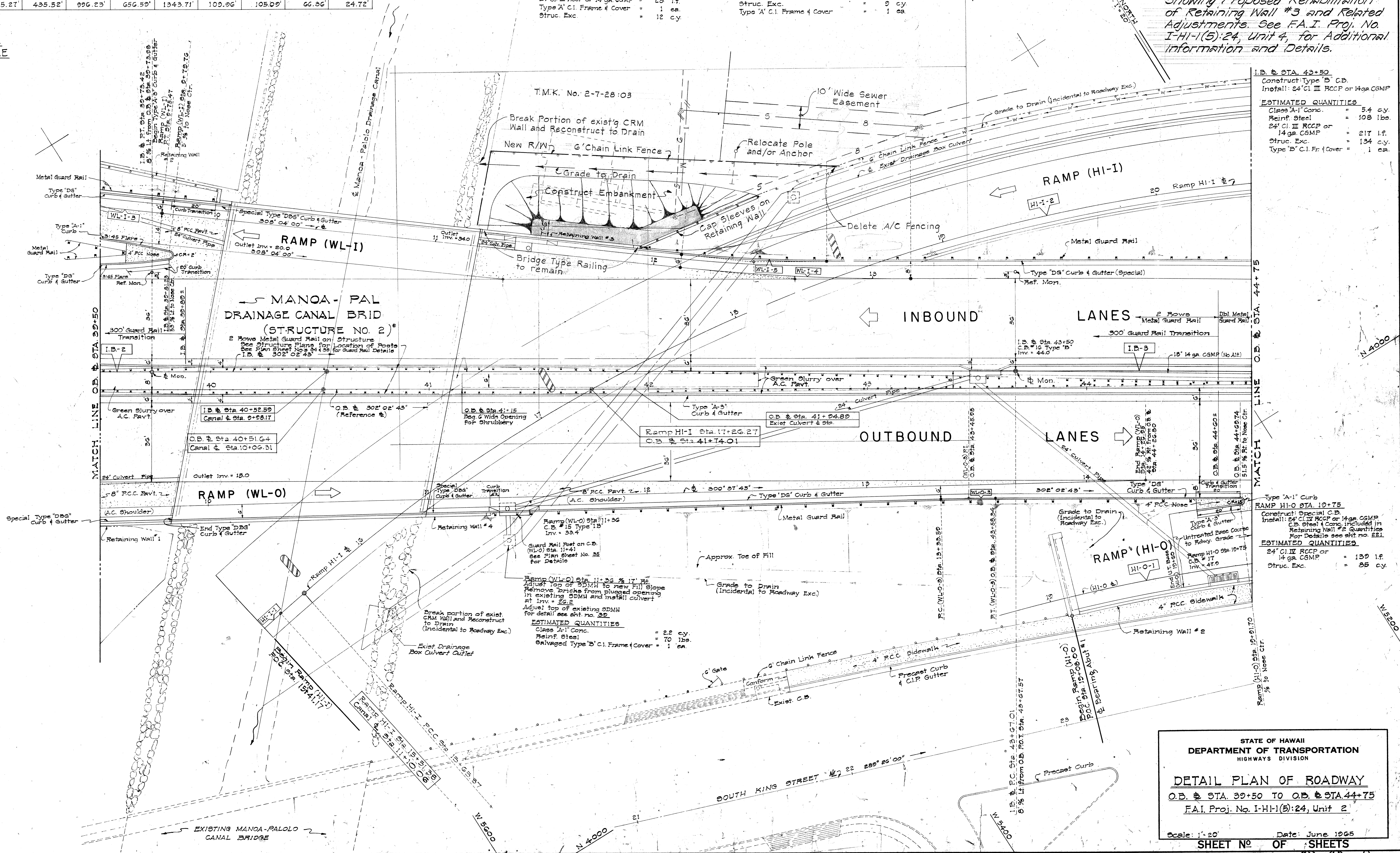
INFORMATIONAL SHEET
Showing Proposed Rehabilitation of Retaining Wall #3 and Related Adjustments. See F.A.I. Proj. No. I-HI-1(5) 24, Unit 4, for Additional Information and Details.

I.B. @ STA. 43+50
Construct: Type 'B' C.B.
Install: 24" C.I. III RCCP or 14 ga. CGMP

ESTIMATED QUANTITIES
Class 'A-1' Conc. = 5.4 c.y.
Reinf. Steel = 108 lbs.
24" C.I. III RCCP or 14 ga. CGMP = 217 l.f.
Struc. Exc. = 134 c.y.
Type 'B' C.I. Fr. & Cover = 1 ea.

PARABOLIC CURB FLARE

Dist. % in ft.	3.45
5	0.04
10	0.15
15	0.33
20	0.59
25	0.93
30	1.33
35	1.81
40	2.37
45	3



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY
O.B. @ STA. 39+50 TO O.B. @ STA. 44+75
F.A.I. Proj. No. I-HI-1(5) 24, Unit 2

Scale: 1" = 20' Date: June 1965
SHEET NO. 20A OF 276 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	

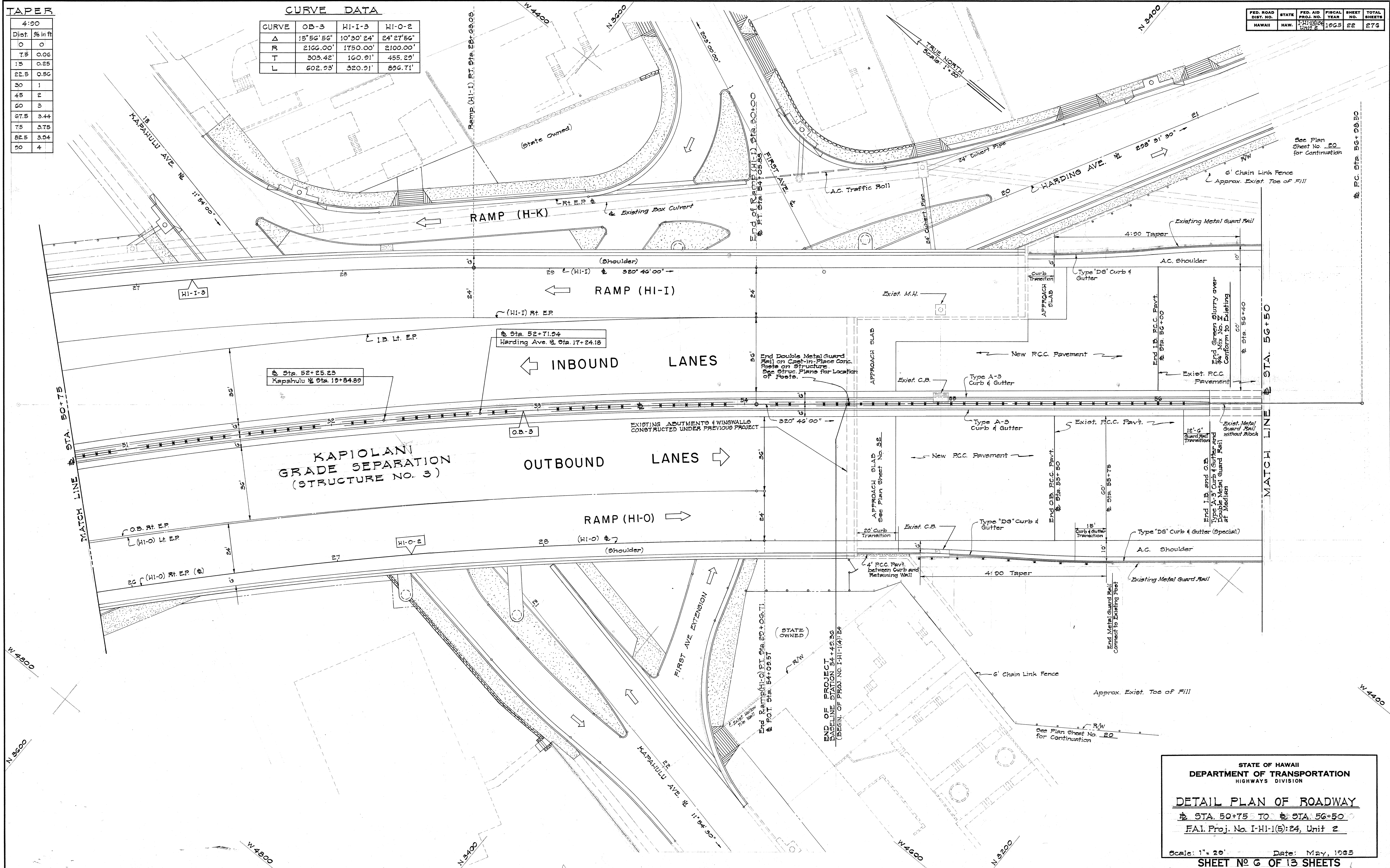
TAPER

Dist.	% in ft.
0	0
7.5	0.06
15	0.25
22.5	0.50
30	1
45	2
60	3
67.5	3.44
75	3.75
82.5	3.94
90	4

CURVE DATA

CURVE	OB-3	HI-I-3	HI-O-2
Δ	15°56'56"	10°30'24"	24°27'56"
R	2166.00'	1750.00'	2100.00'
T	303.42'	160.91'	455.29'
L	602.93'	320.91'	896.71'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HI-1(5)-24	1965	22	276



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY

Sta. 50+75 TO Sta. 56+50

F.A.I. Proj. No. I-HI-1(5)-24, Unit 2

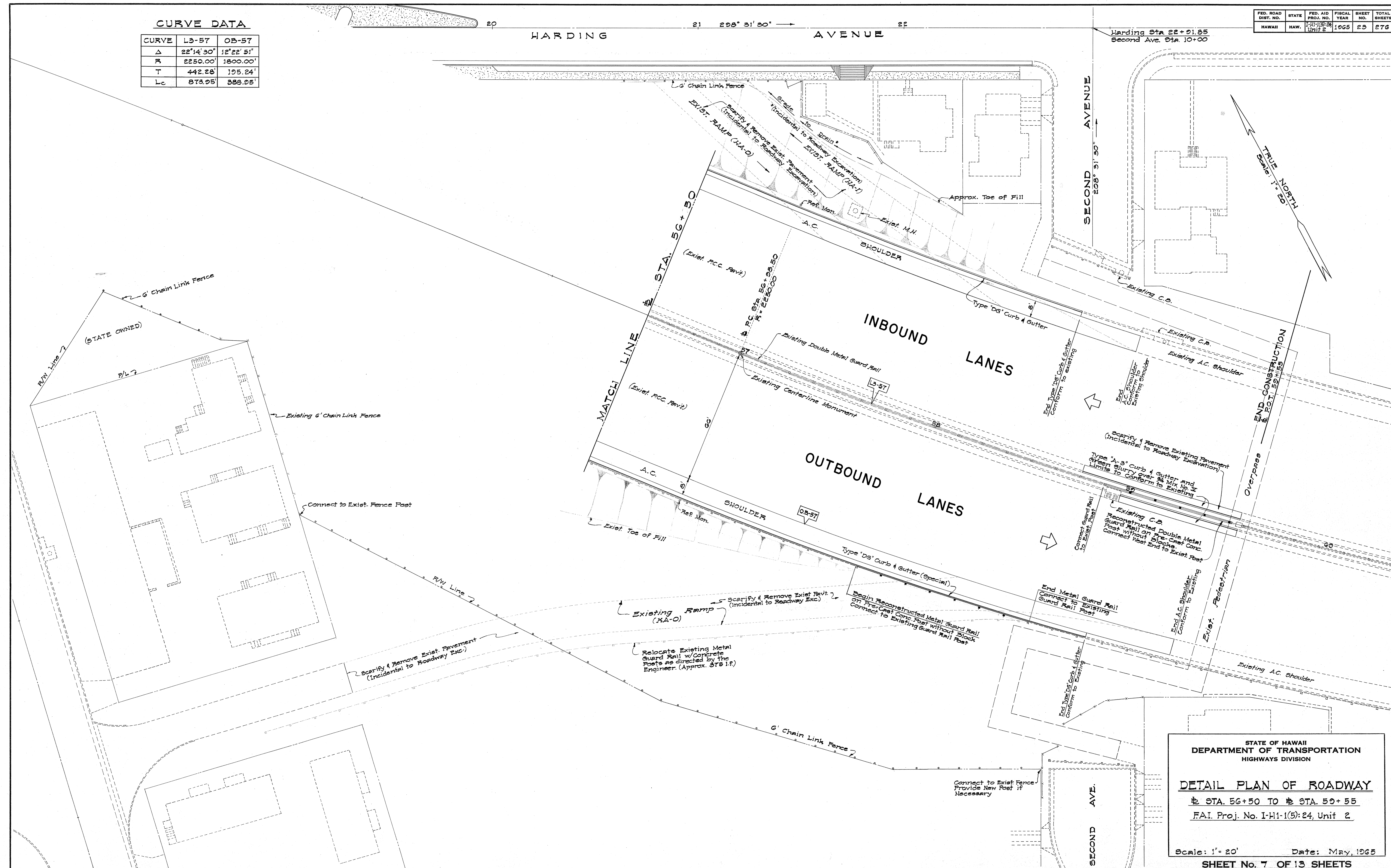
Scale: 1" = 20' Date: May, 1965

SHEET NO. 6 OF 13 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	

CURVE DATA		
CURVE	L3-57	OB-57
Δ	22°14'30"	12°22'51"
R	2250.00'	1800.00'
T	442.28'	195.24'
Lc	873.95'	388.95'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	101-1(5)24	1965	23	276



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY

STA. 56+50 TO STA. 59+55

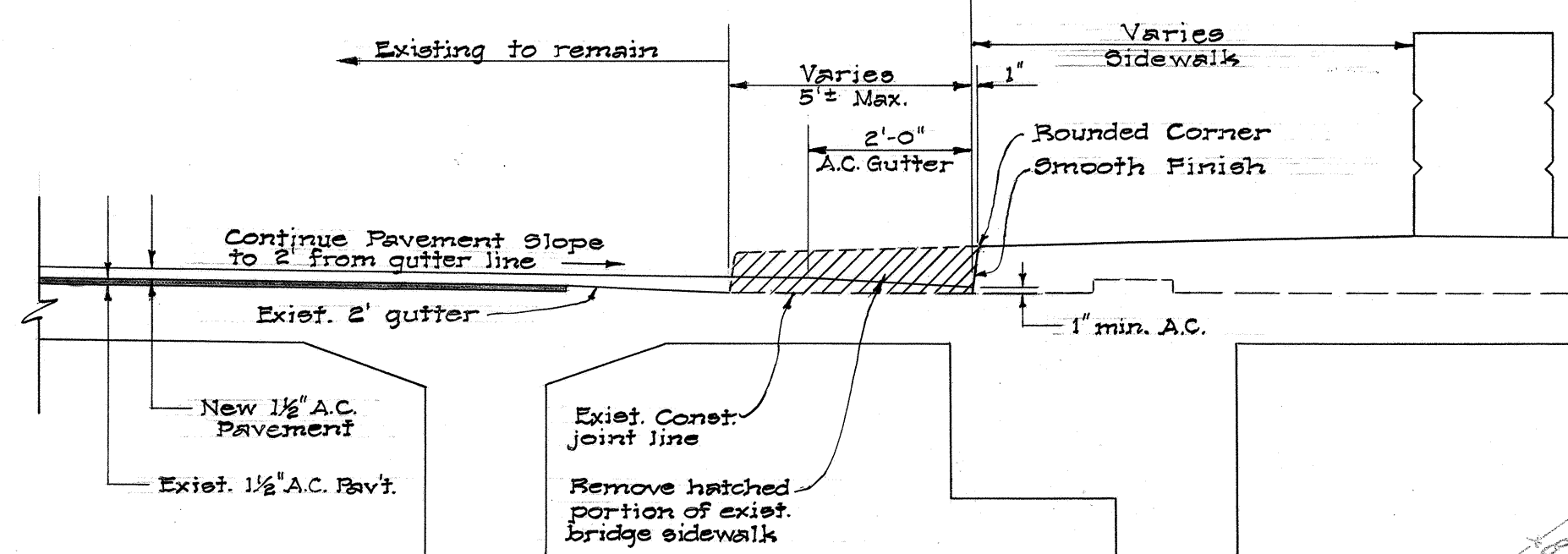
FAI. Proj. No. I-H1-1(5)24, Unit 2

Scale: 1" = 20' Date: May, 1965

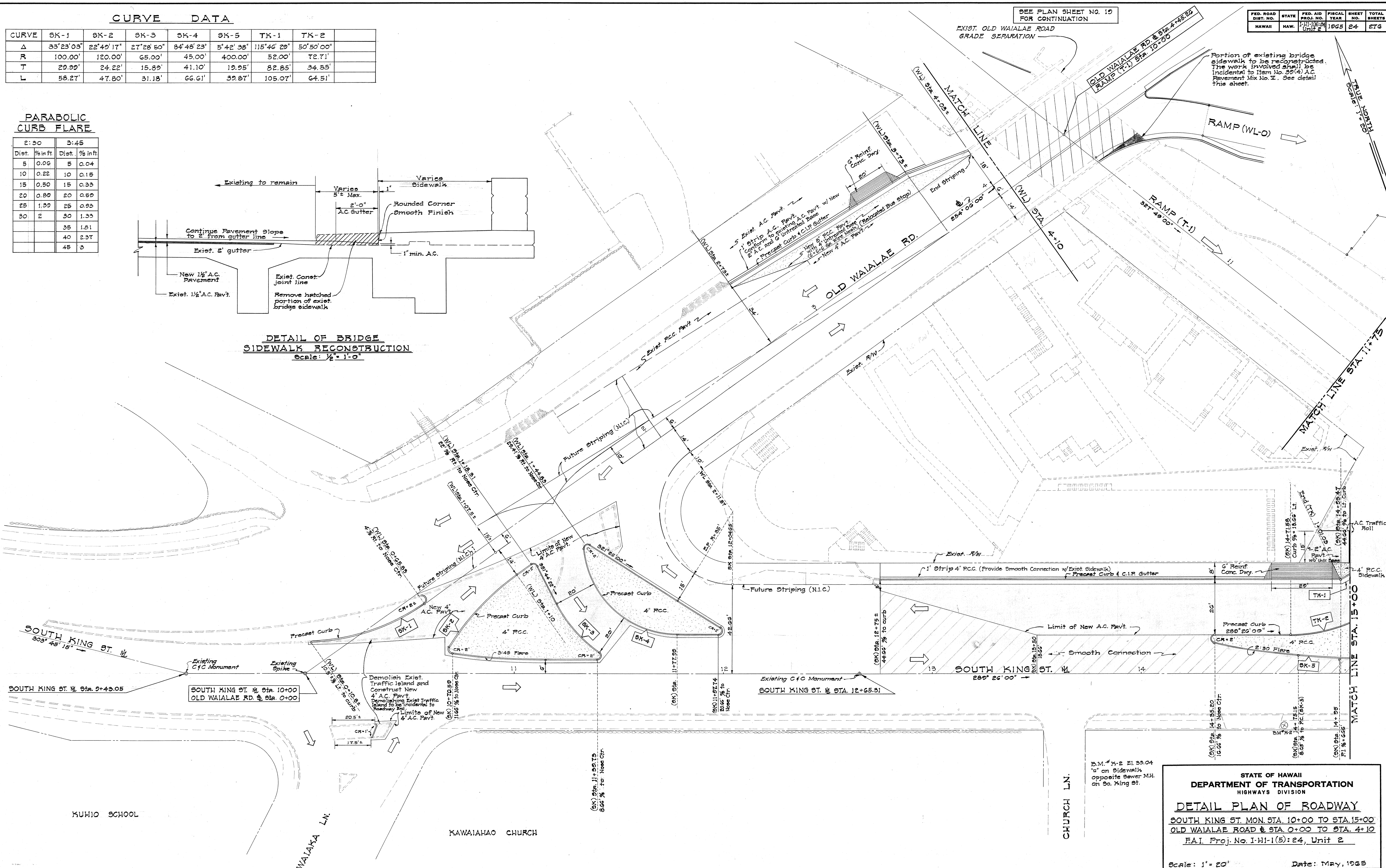
SHEET No. 7 OF 13 SHEETS

CURVE	SK-1	SK-2	SK-3	SK-4	SK-5	TK-1	TK-2
Δ	33°23'03"	22°49'17"	27°28'50"	84°48'23"	5°42'38"	115°46'29"	50°50'00"
R	100.00'	120.00'	65.00'	45.00'	400.00'	52.00'	72.71'
T	29.99'	24.22'	15.89'	41.10'	19.95'	82.85'	34.55'
L	58.27'	47.80'	31.18'	66.61'	39.87'	105.07'	64.51'

2:30		3:45	
Dist.	% in ft	Dist.	% in ft
5	0.06	5	0.04
10	0.22	10	0.15
15	0.50	15	0.33
20	0.89	20	0.59
25	1.39	25	0.93
30	2	30	1.33
		35	1.81
		40	2.37
		45	3



DETAIL OF BRIDGE
SIDEWALK RECONSTRUCTION
Scale: 1/2" = 1'-0"



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY

SOUTH KING ST. MON. STA. 10+00 TO STA. 15+00
OLD WAIALAE ROAD & STA. 0+00 TO STA. 4+10
FAI. Proj. No. I-H-1(5):24, Unit 2

Scale: 1" = 20' Date: May, 1965

SHEET NO 8 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HI-1(5) Unit 2	1965	25	276

CURVE DATA										
CURVE	SK-5	TK-1	TK-2	KT-1	KT-2	KT-3	KT-4	T1-3	T1-4	SK-6
Δ	5° 42' 38"	115° 46' 29"	50° 50' 00"	50° 50' 00"	180° 00' 00"	51° 27' 31"	51° 27' 44"	8° 09' 14"	5° 39' 43"	4° 23' 14"
R	400.00'	52.00'	72.71'	19.57'	25.00'	45.00'	40.00'	180.00'	180.00'	3638.00'
T	19.95'	82.85'	34.55'	9.30'	∞	38.97'	19.28'	12.83'	8.90'	139.35'
L	39.87'	105.07'	64.51'	17.86'	78.54'	64.24'	35.03'	25.62'	17.79'	278.57'

RAMP(T-1) STA. 12+72± LT.
Construct: Std. C.D.I.
Install: 18" C.I. III RCCP or 14 ga. CGMP

ESTIMATED QUANTITIES
Class "B-1" Conc. = 1.4 cy.
18" C.I. III or 14 ga. CGMP = 48 lf.
Struc. Exc. = 26 cy.

RAMP(T-1) STA. 13+21± LT.
Construct: Type "B" SDMH over existing 18" Culvert

ESTIMATED QUANTITIES
Class "B-1" Conc. = 1.0 cy.
Reinf. Steel = 3 lf.
Brick Wall = 4 lf.
Struc. Exc. = 9 cy.
Type "A" C.I. Frame & Cover = 1 ea.

(T-K) Sta. 0+50
Construct: Type "B" C.B.
Install: 18" C.I. III RCCP or 14 ga. CGMP

ESTIMATED QUANTITIES
Class "A-1" Conc. = 4.4 cy.
Reinf. Steel = 108 lbs.
18" C.I. III RCCP or 14 ga. CGMP = 105 lf.
Struc. Exc. = 71 cy.
Salvaged C.I. Frame & Cover = 1 ea.

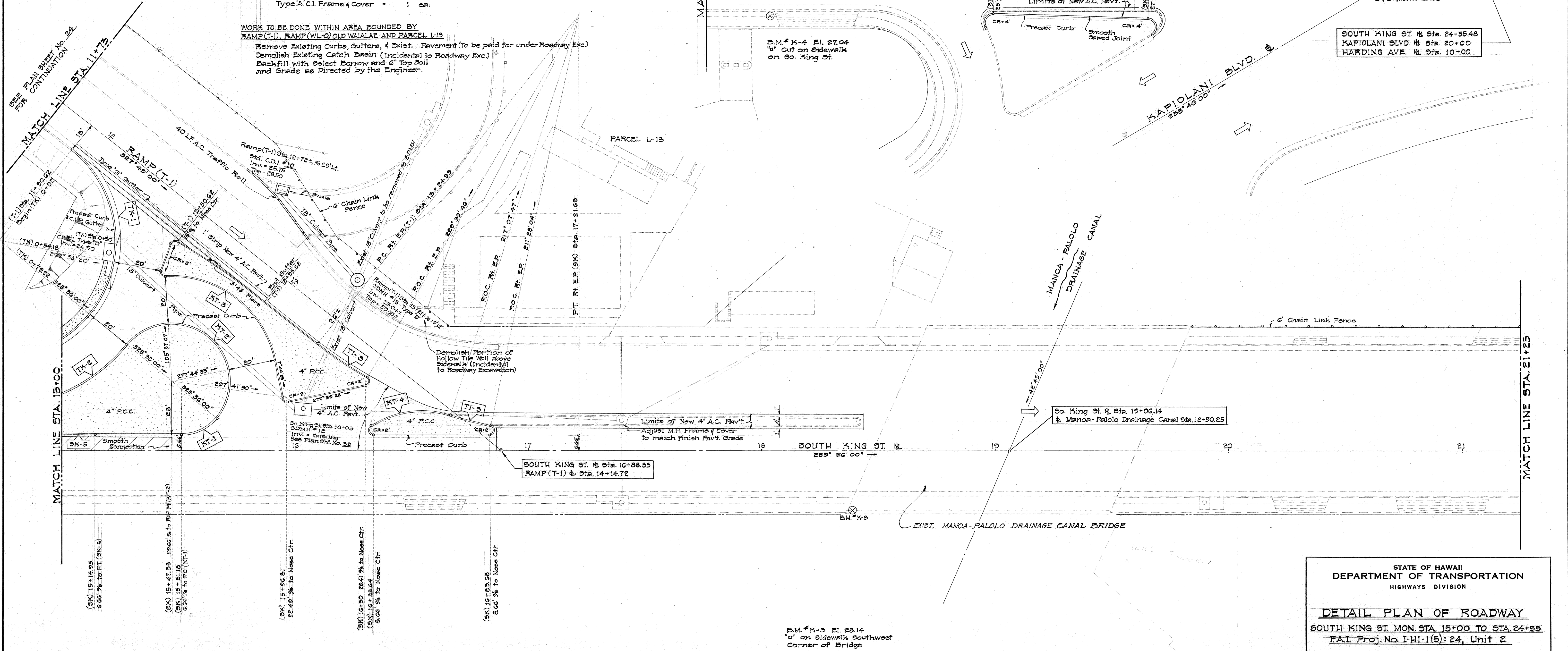
SO. KING ST. STA. 16+03 (17' % LT.) SDMH #12
Salvage: Type "B" C.I. Frame & Cover
Convert: existing C.B. to SDMH
For details see sheet no. 22

ESTIMATED QUANTITIES
Class "A-1" Conc. = 1.2 cy.
Reinf. Steel = 100 lbs.
Type "A" C.I. Frame & Cover = 1 ea.

WORK TO BE DONE WITHIN AREA BOUNDED BY
RAMP(T-1), RAMP(W/O) OLD WAIALAE AND PARCEL L-13
Remove Existing Curbs, Gutters, & Exist. Pavement (to be paid for under Roadway Exc.)
Demolish Existing Catch Basin (Incidental to Roadway Exc.)
Backfill with Select Borrow and 6" Top Soil
and Grade as Directed by the Engineer.

PARABOLIC CURB FLARE

Dist.	% Inft
5	0.04
10	0.15
15	0.33
20	0.59
25	0.93
30	1.33
35	1.81
40	2.37
45	3

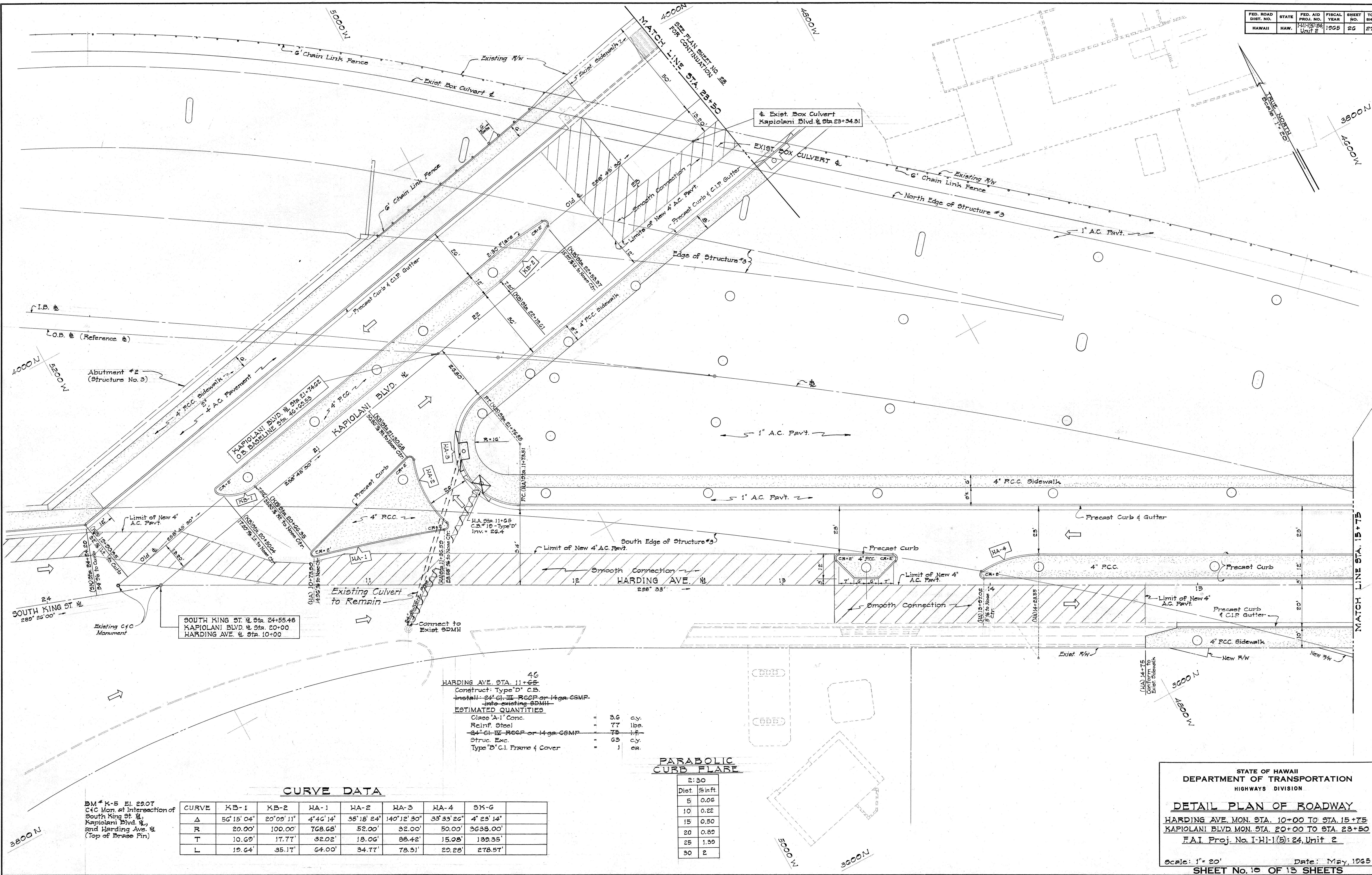


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY
SOUTH KING ST. MON. STA. 15+00 TO STA. 24+55
FAI Proj. No. I-HI-1(5):24, Unit 2
Scale: 1"=20'
Date: May, 1965
SHEET No. 9 OF 13 SHEETS

ORIGINAL PLAN	DATE
SURVEY PLATTED BY	
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HA-1-1(5)	1965	26	276



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

BM # K-5 E.I. 29.07
C4C Mon. at Intersection of
South King St. &
Kapiolani Blvd. &
Harding Ave. &
(Top of Brass Pin)

CURVE	KB-1	KB-2	HA-1	HA-2	HA-3	HA-4	SK-G
Δ	56°15'04"	20°09'11"	4°46'14"	38°18'24"	140°12'30"	33°33'26"	4°23'14"
R	20.00'	100.00'	768.68'	52.00'	32.00'	50.00'	3638.00'
T	10.69'	17.77'	32.02'	18.06'	88.42'	15.08'	139.35'
L	19.64'	35.17'	64.00'	34.77'	78.31'	22.28'	278.57'

HARDING AVE STA. 11+65
Construct: Type "D" C.B.
Install: 24" C.I. RCP or 14 ga. CGMP
into existing SDMH
ESTIMATED QUANTITIES
Class "A-1" Conc. = 3.6 c.y.
Reinf. Steel = 77 lbs.
24" C.I. RCP or 14 ga. CGMP = 75 l.f.
Struc. Exc. = 63 c.y.
Type "D" C.I. Frame & Cover = 1 ea.

PARABOLIC CURB FLARE

2:30	
Dist.	% Inft.
5	0.06
10	0.22
15	0.50
20	0.89
25	1.39
30	2

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY
HARDING AVE. MON. STA. 10+00 TO STA. 15+75
KAPIOLANI BLVD. MON. STA. 20+00 TO STA. 23+50
FAI Proj. No. I-HI-1(5): 24, Unit 2
Scale: 1" = 20'
SHEET No. 16 OF 13 SHEETS

Date: May, 1965

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

CURVE DATA

CURVE	KA-1	KA-2	KA-3	KA-4	KA-5	KA-6	KA-7
Δ	106°39'00"	70°47'00"	15°48'56"	134°08'52"	35°46'28"	7°25'30"	7°25'30"
R	22.00'	62.00'	80.00'	8.50'	55.00'	416.00'	400.00'
T	29.54'	44.05'	11.11'	20.10'	17.75'	26.99'	25.95'
L	40.95'	76.59'	22.08'	19.90'	34.34'	53.91'	51.84'

CURVE	KA-8	HA-5	HA-6	HA-7	HA-8
Δ	10°00'00"	38°12'48"	29°38'54"	43°11'41"	13°11'25"
R	300.00'	30.00'	60.00'	20.00'	400.00'
T	26.25'	10.39'	15.88'	7.94'	46.25'
L	52.36'	20.01'	31.05'	15.12'	92.09'

CURVE	HA-9	FA-1	FA-2	FA-3	FA-4
Δ	8°33'20"	61°35'30"	12°30'00"	5°30'00"	57°31'30"
R	599.00'	90.00'	240.00'	500.00'	60.00'
T	44.81'	53.64'	26.28'	24.02'	32.93'
L	89.44'	96.75'	52.36'	48.00'	60.24'

CURVE	FA-5	FA-6	FA-7	FA-8	FA-9
Δ	71°36'40"	23°00'00"	37°39'48"	113°30'00"	35°01'30"
R	49.00'	90.68'	68.00'	49.00'	68.00'
T	35.35'	18.45'	23.19'	74.74'	21.46'
L	61.24'	36.40'	44.70'	97.07'	41.57'

CURVE	HK-1	HK-2
Δ	55°24'00"	35°21'28"
R	100.00'	102.86'
T	52.50'	30.82'
L	96.69'	59.89'

PARABOLIC CURB FLARE

Dist.	% in ft.	Dist.	% in ft.	Dist.	% in ft.
5	0.06	5	0.04	6	0.04
10	0.22	10	0.15	12	1.50
15	0.50	15	0.33	18	3.33
20	0.80	20	0.59	24	6
25	1.39	25	0.93		
30	2	30	1.33		
		35	1.81		
		40	2.37		
		45	3		

BOARD OF WATER SUPPLY
For R/W Adjustment Detail
See Plan Sheet No. 41
Item No. 123 B

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	191-187-84 Unit 2	1965	27	276

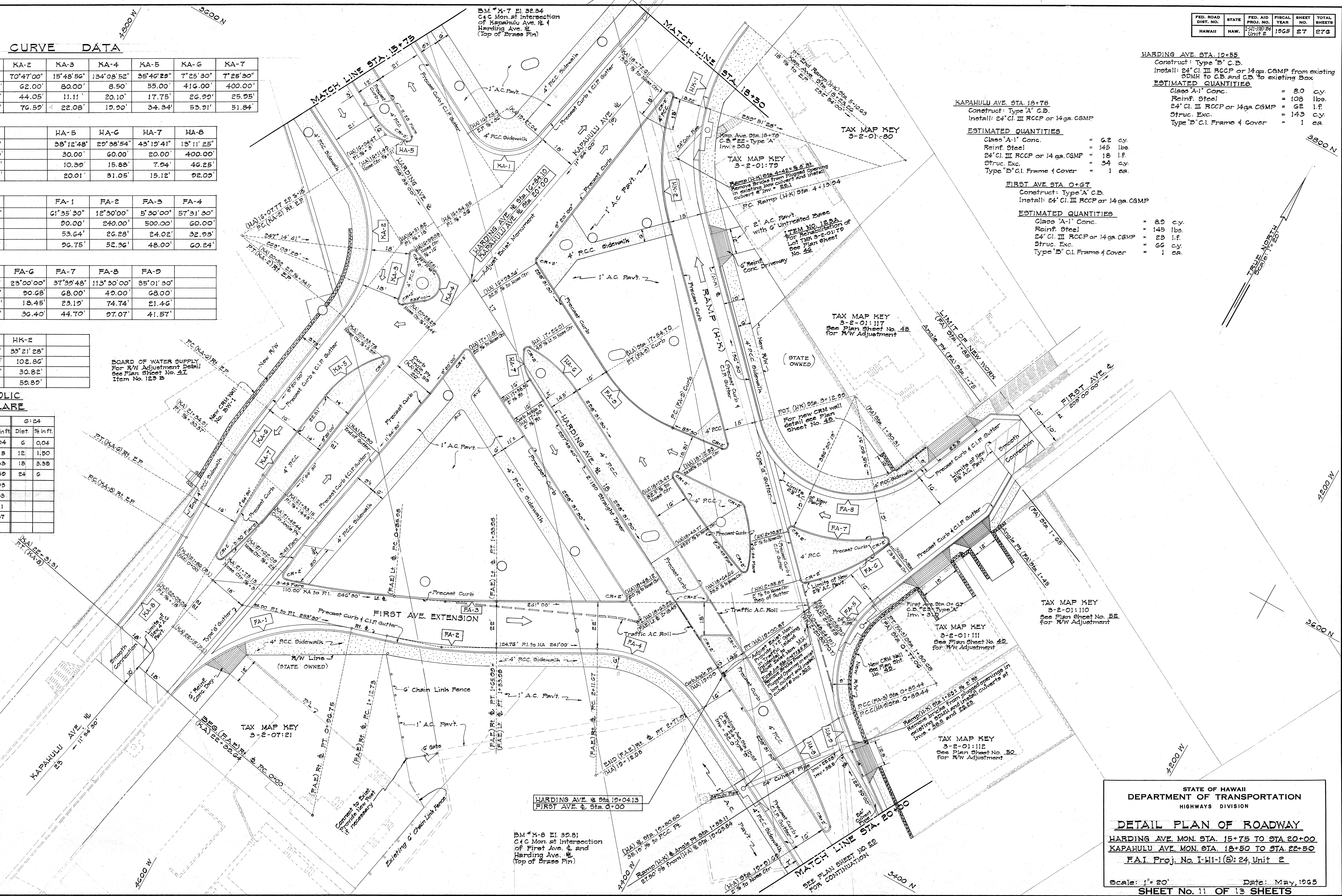
HARDING AVE. STA. 19+55
Construct: Type "B" C.B.
Install: 24" Cl. III RCCP or 14 ga. CGMP from existing 30" DMH to C.B. and C.B. to existing Box.
ESTIMATED QUANTITIES
Class "A-1" Conc. = 8.0 c.y.
Reinf. Steel = 108 lbs.
24" Cl. III RCCP or 14 ga. CGMP = 62 l.f.
Struc. Exc. = 143 c.y.
Type "B" C.I. Frame & Cover = 1 ea.

KAPAHULU AVE. STA. 18+78
Construct: Type "A" C.B.
Install: 24" Cl. III RCCP or 14 ga. CGMP

ESTIMATED QUANTITIES
Class "A-1" Conc. = 6.2 c.y.
Reinf. Steel = 145 lbs.
24" Cl. III RCCP or 14 ga. CGMP = 18 l.f.
Struc. Exc. = 34 c.y.
Type "B" C.I. Frame & Cover = 1 ea.

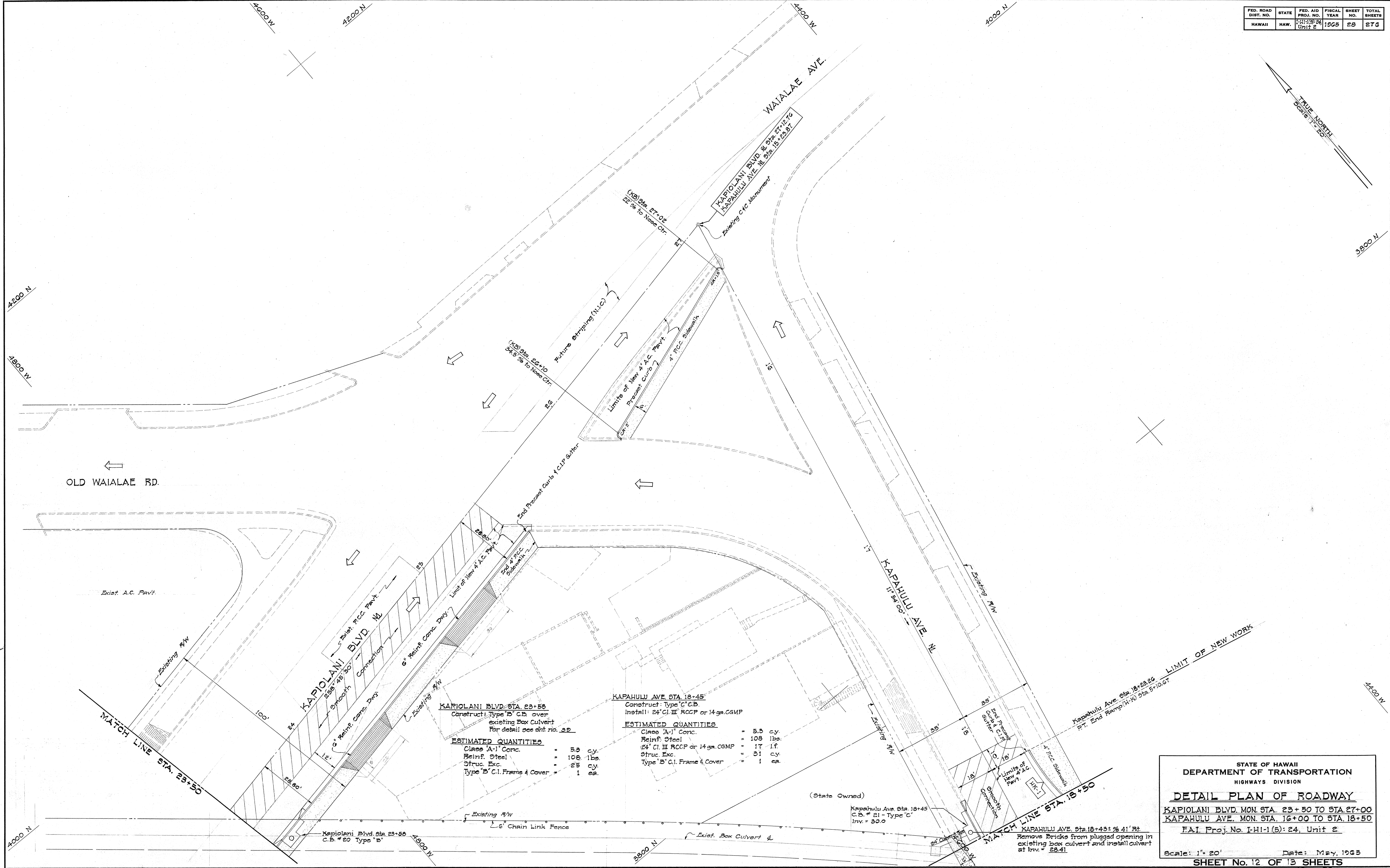
FIRST AVE. STA. 0+67
Construct: Type "A" C.B.
Install: 24" Cl. III RCCP or 14 ga. CGMP

ESTIMATED QUANTITIES
Class "A-1" Conc. = 8.9 c.y.
Reinf. Steel = 145 lbs.
24" Cl. III RCCP or 14 ga. CGMP = 23 l.f.
Struc. Exc. = 66 c.y.
Type "B" C.I. Frame & Cover = 1 ea.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CH-14-24 Unit 2	1965	28	276

TRUE NORTH
Scale 1" = 20'



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY

KAPIOLANI BLVD. MON. STA. 23+50 TO STA. 27+00
KAPAHEULU AVE. MON. STA. 16+00 TO STA. 18+50
FAI Proj. No. IHI-1(5): 24, Unit 2

Scale: 1" = 20' Date: May, 1965
SHEET No. 12 OF 13 SHEETS

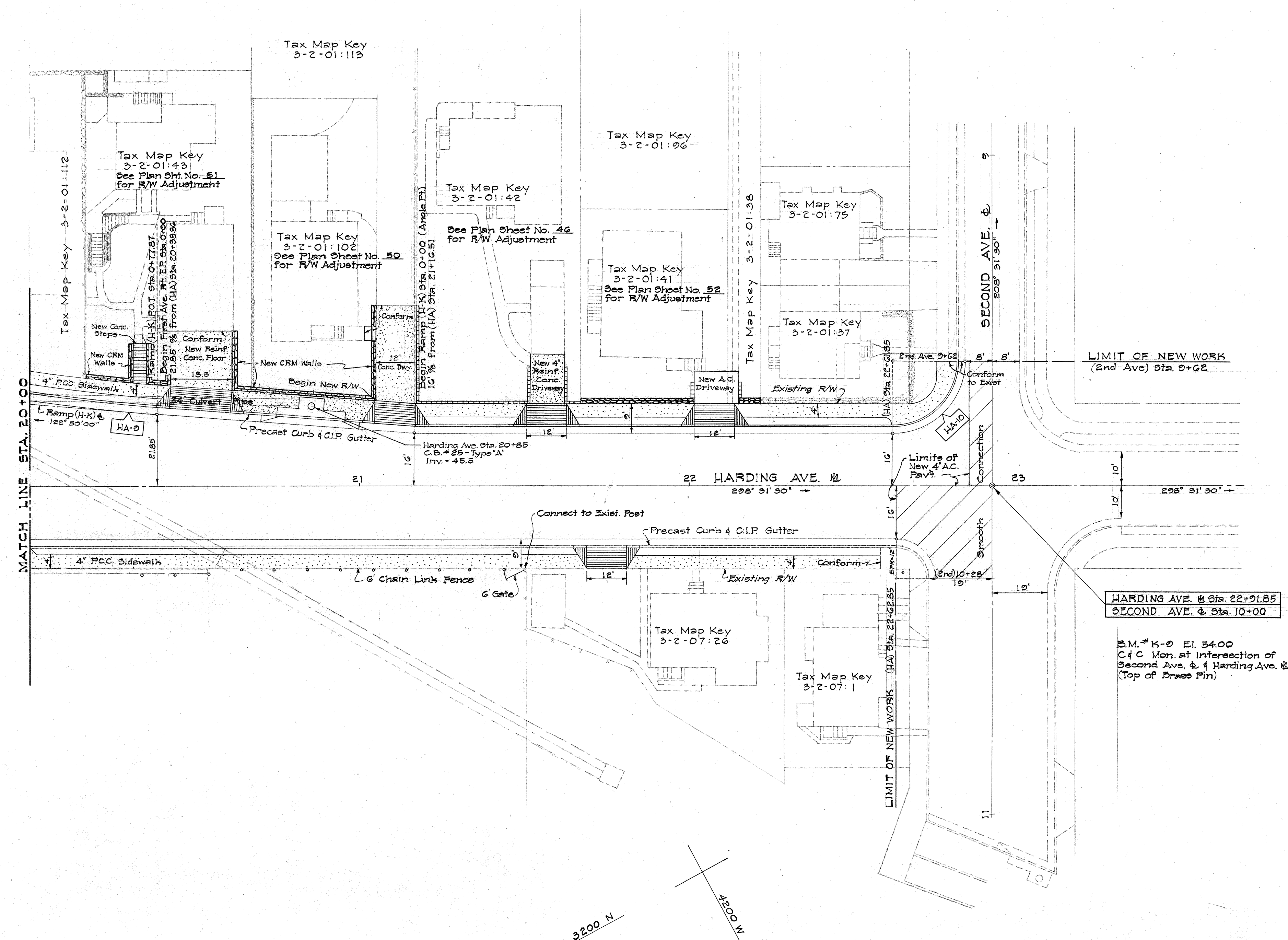
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-15:24, Unit 2	1965	29	276

HARDING AVE. STA. 20+85
Construct: Type "A" C.B.
Install: 24" Cl. III RCCP or 14 ga. CGMP

ESTIMATED QUANTITIES

Class "A-1" Conc.	=
Reinf. Steel	=
24" Cl. III RCCP or 14 ga. CGMP	=
Struc. Exc.	=
Type "B" Cl. Frame & Cover	=

CURVE DATA			
CURVE	HA-9	HA-10	
Δ	8° 33' 20"	90° 00' 00"	
R	599.00'	22.00'	
T	44.81'	22.00'	
L	89.44'	34.56'	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY
HARDING AVE. MON. STA. 20+00 TO 23+00
F.A.I. Proj. No. I-HI-1(5):24, Unit 2

Scale: 1"=20' Date: May, 1965

SHEET NO. 13 OF 13 SHEETS