

CURVE DATA

	1	①	2	②
Δ	12°13'45"	12°13'45"	24°03'45"	25°03'45"
1/2	6°08'52.5"	6°08'52.5"	12°01'32.5"	12°01'52.5"
R	1938.00'	1600.00'	1200.00'	1238.00'
T	207.61'	171.40'	255.75'	275.17'
Ch	412.86'	340.86'	500.27'	537.22'
LC	413.65'	341.50'	503.96'	541.53'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	34	340

N 7200

RT 'A' STA. 183+88 (C DWY.)
12' WIDE CONC. DROP DWY.

RT 'A' STA. 183+67 (C DWY.)
12' WIDE CONC. DROP DWY.

RT 'A' STA. 185+00 (C DWY.)
12' WIDE CONC. DROP DWY.

RT 'A' STA. 183+40± TO 185+37±
CONSTRUCT 173± L.F. TYPE 'B' WALL
FOR DETAILS, SEE PLAN
SHEET NO. C-21

RT 'A' STA. 184+50 TO 185+00
LT MEDIAN
INSTALL 50 L.F. TRANSITION CONC. BARRIER
(TRANSITION HT. 1'-0" TO 2'-8")
RT 'A' STA. 185+00 TO 187+56
LT MEDIAN
INSTALL 256 L.F. CONC. BARRIER (TYPE 4A)

RT 'A' STA. 185+22 (C DWY.)
12' WIDE CONC. DROP DWY.

RT 'A' STA. 185+52 TO STA. 186+08
CONSTRUCT 36± L.F. TYPE 'E' WALL
FOR DETAILS, SEE PLAN
SHEET NO. C-22

RT 'A' STA. 185+82 (C DWY.)
20' WIDE CONC. DROP DWY.

RT 'A' STA. 187+35 (C DWY.)
20' WIDE CONC. DROP DWY.

RT 'A' STA. 187+78 (C DWY.)
20' WIDE CONC. DROP DWY.

RT 'A' STA. 186+25 TO 189+97±
CONSTRUCT ROCK CATCHMENT
FOR DETAILS, SEE PLAN
SHEET NO. C-22

5850
TMK:3-7-11:03
RT 'A' STA. 186+08 TO 189+90
INSTALL 6' HIGH CHAIN LINK FENCE
ALONG BACK OF SIDEWALK

5858
TMK:3-7-11:01

TRUE NORTH
SCALE: 1"=20'

N 7200

N 7000

5847, 5849, & 5849A
TMK:3-7-02:79 & 3-7-02:17

N 7000

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

RT 'C' STA. 180+45 TO 184+25
CONSTRUCT 210± L.F. TYPE 'A' WALL
FOR DETAILS, SEE PLAN
SHEET NO. C-21

RT 'C' STA. 182+24 (C DWY.)
20' WIDE CONC. DROP DWY.

RT 'C' STA. 183+08 (C DWY.)
16' WIDE CONC. DROP DWY.

RT 'C' STA. 183+96 (C DWY.)
20' WIDE CONC. DROP DWY.

RT 'C' STA. 184+25 TO 184+81
CONSTRUCT 72± L.F. TYPE 'B' WALL
FOR DETAILS, SEE PLAN
SHEET NO. C-21

RT 'C' STA. 184+95 (C DWY.)
20' WIDE CONC. DROP DWY.

RT 'C' STA. 184+98 TO 185+66
CONSTRUCT 24± L.F. TYPE 'A' WALL
FOR DETAILS, SEE PLAN
SHEET NO. C-21

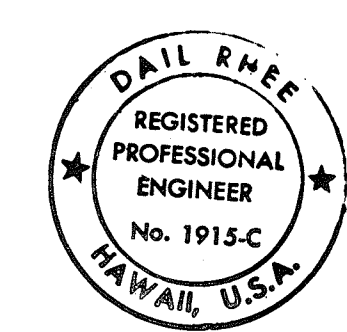
RT 'C' STA. 185+30 (C DWY.)
16' WIDE CONC. DROP DWY.

RT 'C' STA. 186+27 (C DWY.)
16' WIDE CONC. DROP DWY.

RT 'C' STA. 186+72 (C DWY.)
20' WIDE CONC. DROP DWY.

SCALE IN FEET:
20' 10' 0' 20' 40'

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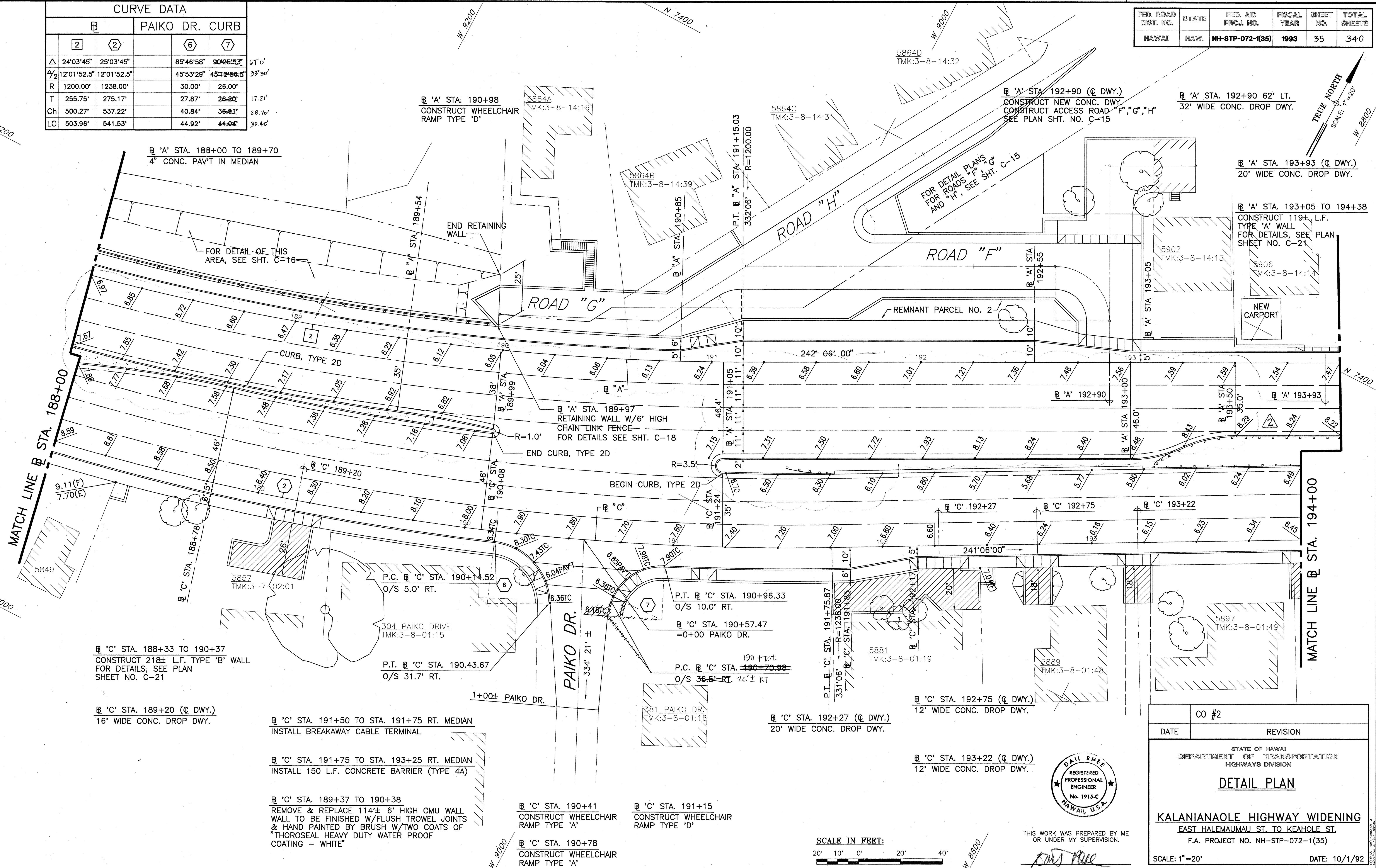
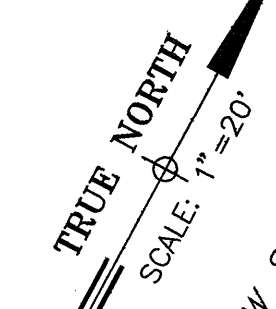
"AS-BUILT"

CO #2	
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DETAIL PLAN	
KALANIANA'OLE HIGHWAY WIDENING EAST HALEMAUMAU ST. TO KEAHOE ST. F.A. PROJECT NO. NH-STP-072-1(35)	
SCALE: 1"=20'	DATE: 10/1/92
SHEET NO. C-2 OF 24 SHEETS	

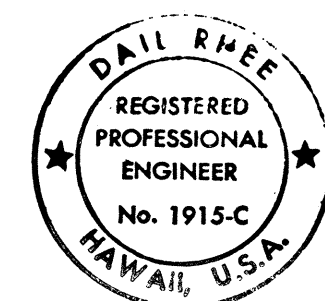
C.O. 34

CURVE DATA					
PAIKO DR. CURB					
	②	②	⑥	⑦	
Δ	24°03'45"	25°03'45"	85°46'58"	90°26'53"	61' 0"
Δ/2	12°01'52.5"	12°01'52.5"	45°53'29"	45°12'56.5"	30' 30"
R	1200.00'	1238.00'	30.00'	26.00'	17.21'
T	255.75'	275.17'	27.87'	26.80'	28.70'
Ch	500.27'	537.22'	40.84'	36.81'	30.40'
LC	503.96'	541.53'	44.92'	44.64'	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	35	340

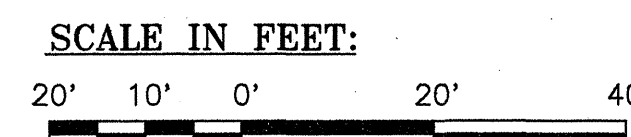


DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____



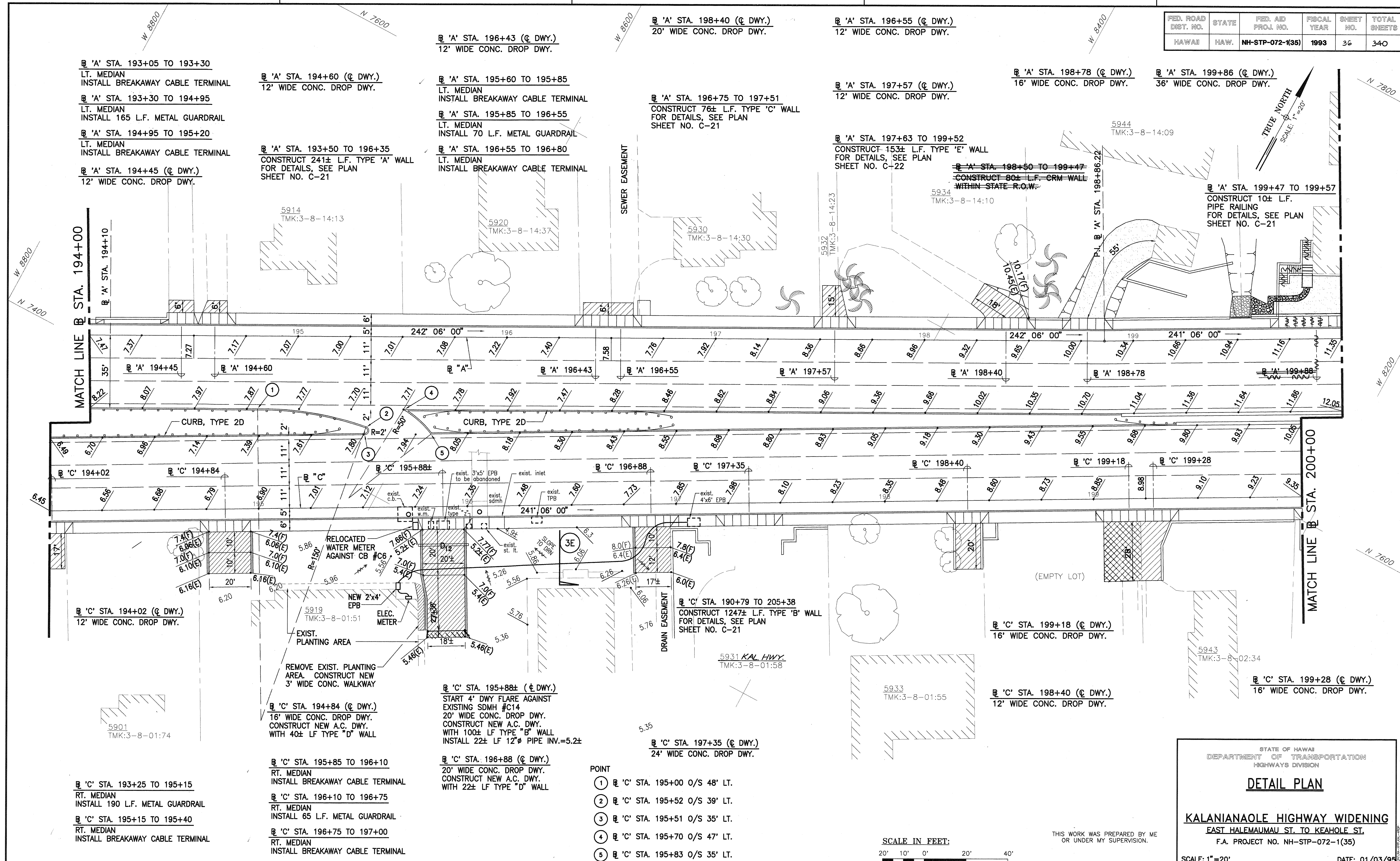
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

Dail Rhee



CO #2	
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DETAIL PLAN	
KALANIANA'OLE HIGHWAY WIDENING	
EAST HALEMAUMAU ST. TO KEAHOLE ST.	
F.A. PROJECT NO. NH-STP-072-1(35)	
SCALE: 1"=20'	DATE: 10/1/92
SHEET NO. C-3 OF 24 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	36	340



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN

KALANIANIAOLE HIGHWAY WIDENING
EAST HALEMAUMAU ST. TO KEAHOLE ST.
F.A. PROJECT NO. NH-STP-072-1(35)

SCALE: 1"=20' DATE: 01/03/95

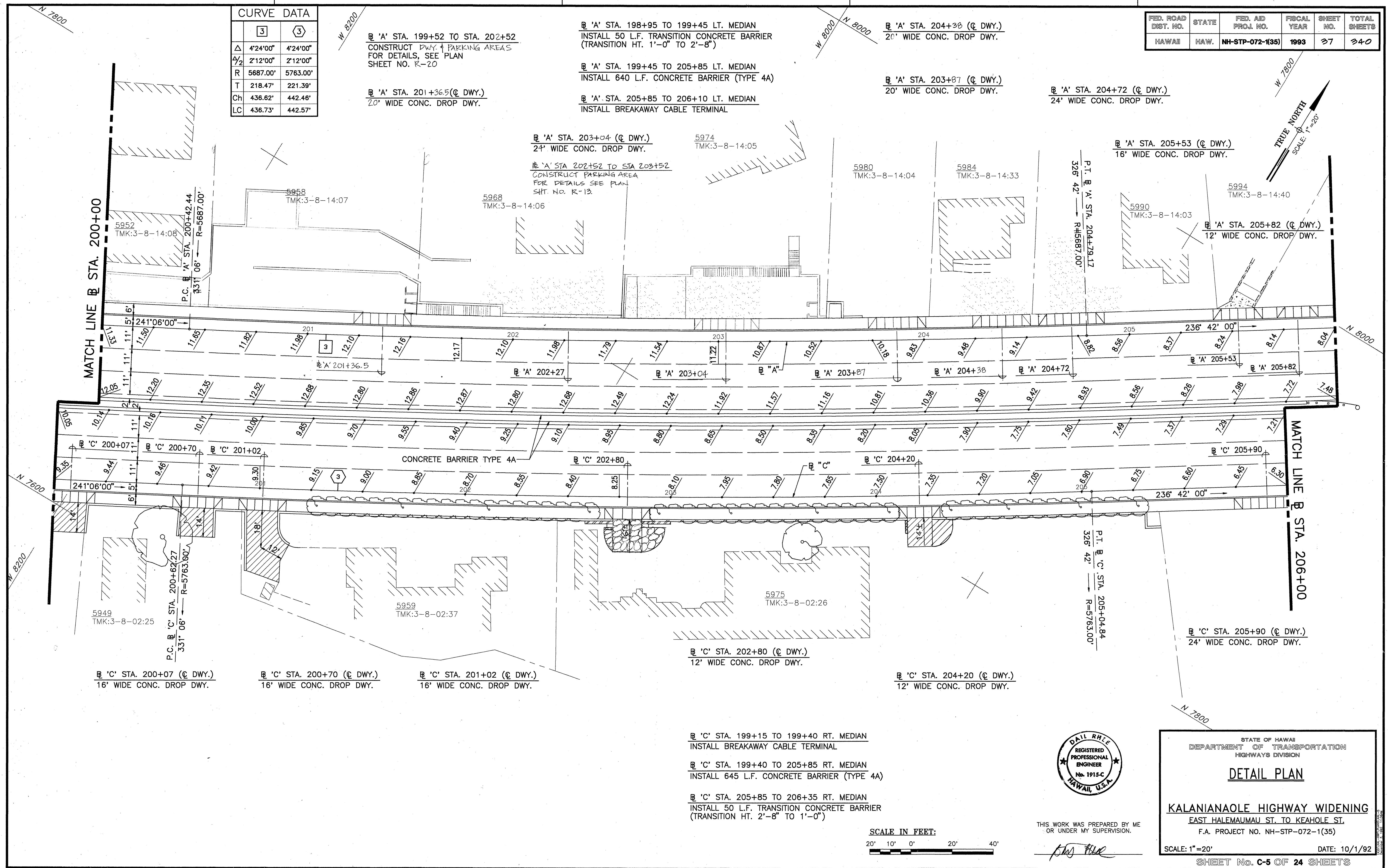
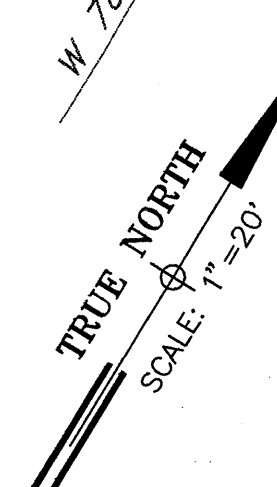
SHEET No. C-4 OF 24 SHEETS

"AS-BUILT"

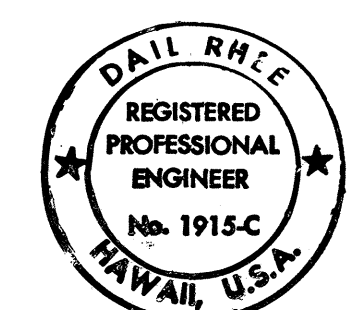
C.O. 36

CURVE DATA			
	3	3	
Δ	4°24'00"	4°24'00"	
Δ/2	2°12'00"	2°12'00"	
R	5687.00'	5763.00'	
T	218.47'	221.39'	
Ch	436.62'	442.46'	
LC	436.73'	442.57'	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	37	340



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



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

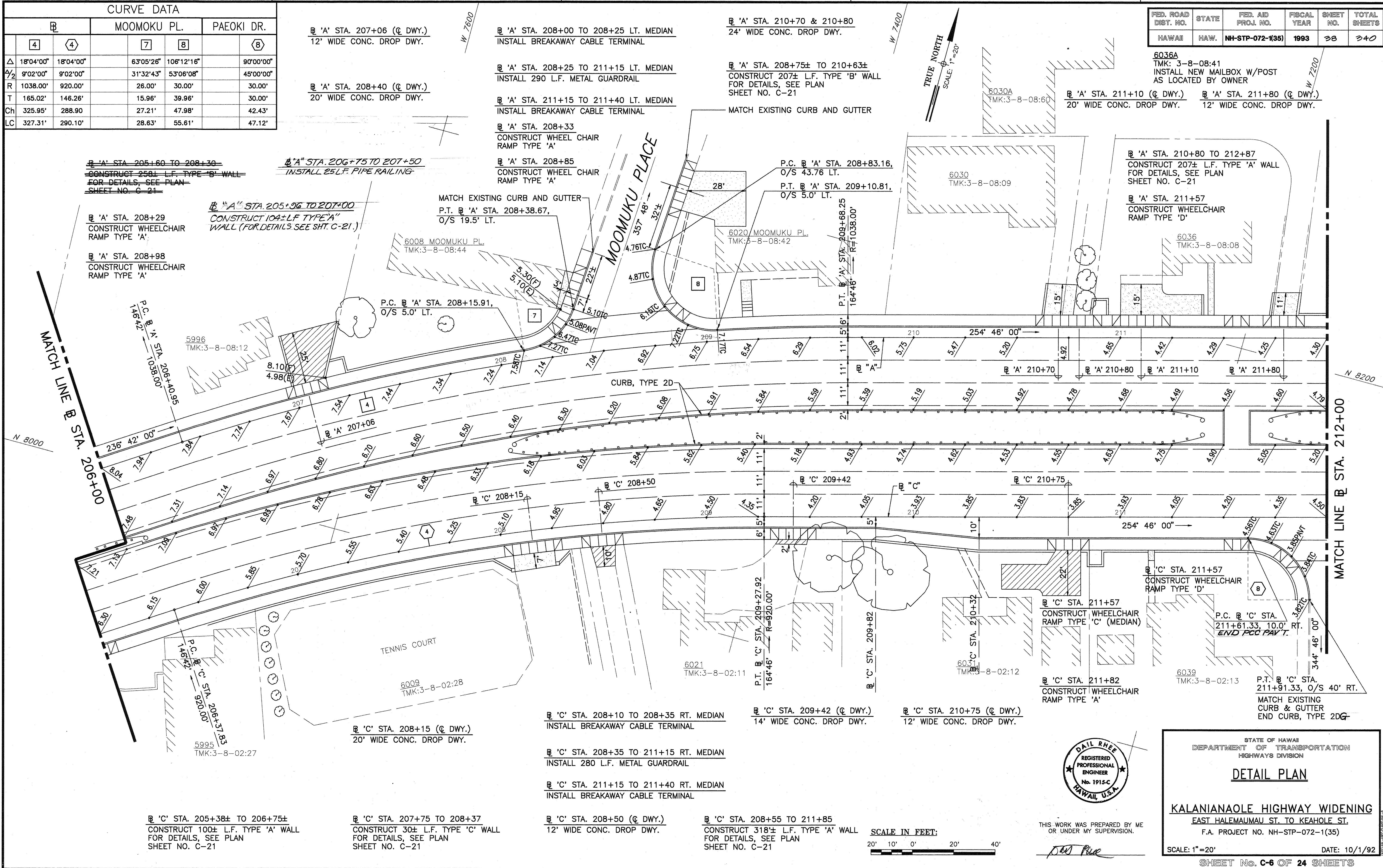
DETAIL PLAN

KALANIANA'OLE HIGHWAY WIDENING
EAST HALEMAUMAU ST. TO KEAHOLE ST.
F.A. PROJECT NO. NH-STP-072-1(35)

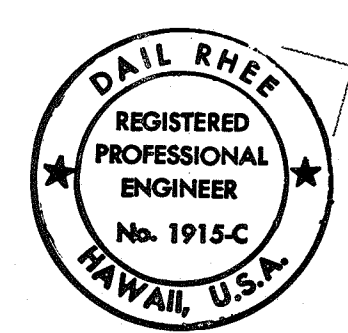
SCALE: 1"=20'
DATE: 10/1/92

CURVE DATA					
MOOMOKU PL.		PAEOKI DR.			
4	4	7	8	8	
Δ 18°04'00"	18°04'00"	63°05'26"	106°12'16"	90°00'00"	
2 9'02'00"	9'02'00"	31'32'43"	53'06'08"	45°00'00"	
R 1038.00'	920.00'	26.00'	30.00'	30.00'	
T 165.02'	146.26'	15.96'	39.96'	30.00'	
Ch 325.95'	288.90'	27.21'	47.98'	42.43'	
LC 327.31'	290.10'	28.63'	55.61'	47.12'	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	38	340



SURVEY PLATTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
No.	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN

KALANIANA'OLE HIGHWAY WIDENING
EAST HALEMAUMAU ST. TO KEAHOLE ST.
F.A. PROJECT NO. NH-STP-072-1(35)

SCALE: 1"=20' DATE: 10/1/92

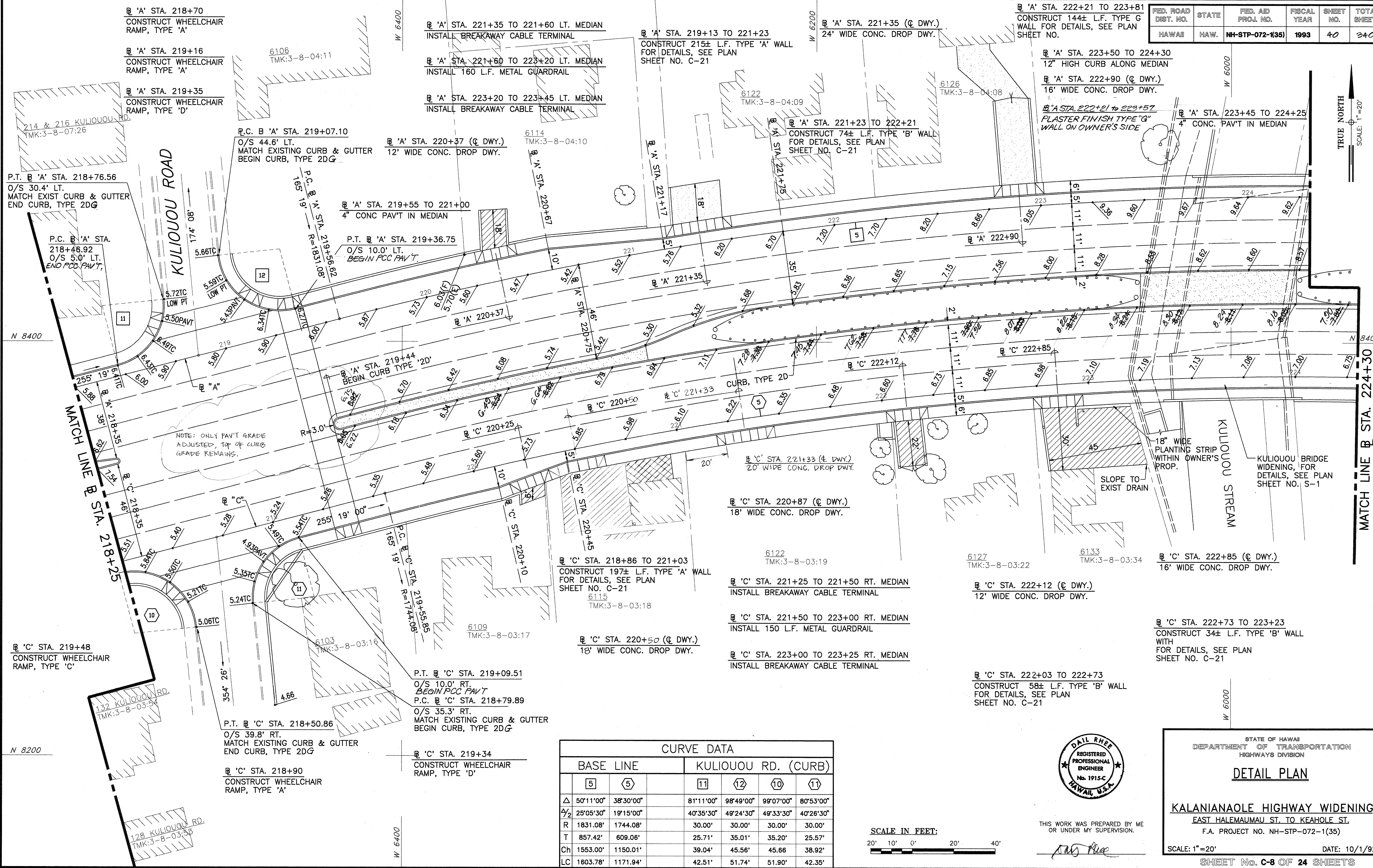
SHEET No. C-6 OF 24 SHEETS



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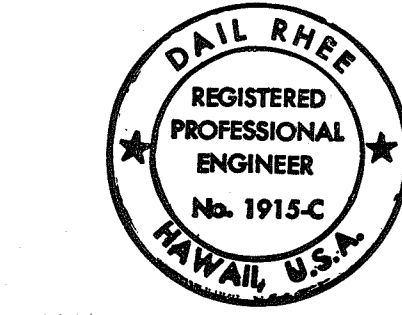
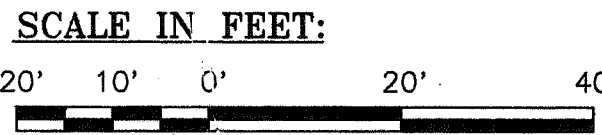
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	40	240



ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

CURVE DATA						
BASE LINE			KULIOUOU RD. (CURB)			
	5	6	11	12	10	11
Δ	50°11'00"	38°30'00"	81°11'00"	98°49'00"	99°07'00"	80°53'00"
Δ/2	25°05'30"	19°15'00"	40°35'30"	49°24'30"	49°33'30"	40°26'30"
R	1831.08'	1744.08'	30.00'	30.00'	30.00'	30.00'
T	857.42'	609.06'	25.71'	35.01'	35.20'	25.57'
Ch	1553.00'	1150.01'	39.04'	45.56'	45.66'	38.92'
LC	1603.78'	1171.94'	42.51'	51.74'	51.90'	42.35'



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[Signature]

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

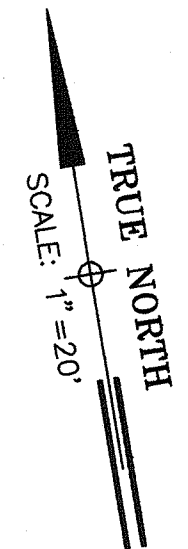
DETAIL PLAN

KALANIANA'OLE HIGHWAY WIDENING
EAST HALEMAUMAU ST. TO KEAHOLE ST.
F.A. PROJECT NO. NH-STP-072-1(35)

SCALE: 1"=20'
DATE: 10/1/92

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	41	240



@ 'A' STA. 224+30 TO 224+55 LT. MEDIAN
 INSTALL BREAKAWAY CABLE TERMINAL

 @ 'A' STA. 224+55 TO 227+65 LT. MEDIAN
 INSTALL 310 L.F. METAL GUARDRAIL

 @ 'A' STA. 227+65 TO 227+90 LT. MEDIAN
 INSTALL BREAKAWAY CABLE TERMINAL

@ 'A' STA. 228+05 TO 230+80
 4' CONC. PAV'T IN MEDIAN

@ 'A' STA. 224+98 (Q DWY.)
 16' WIDE CONC. DROP DWY.
 @ 'A' STA. 225+05 TO 225+28
 CONSTRUCT A REINFORCED CONC.
 SIDEWALK W/ 9" THICKENED
 EDGE.

REINFORCED CONC. SDWK.
 (SEE SHT. C-21)

@ 'C' STA. 225+46.84
 O/S 5.0' RT.
 BEGIN POC PAV'T.
 @ 'C' STA. 225+24, 15.4' RT.
 CONSTRUCT WHEEL CHAIR
 RAMP, TYPE 'A'

@ 'C' STA. 225+16.54
 O/S 39.6' RT.
 MATCH EXISTING CURB & GUTTER
 BEGIN CURB, TYPE 2DG

@ 'C' STA. 225+06, 60' RT.
 Q DWY. 20' WIDE CONCRETE
 DROP DWY. INSTALL TWO
 METAL POSTS @ 20' O.C. &
 CHAIN WITH REFLECTORS AT
 EXISTING R/W. FOR DETAIL
 SEE SHEET C-23

@ 'C' STA. 225+11 TO 229+21
 CONSTRUCT 410± L.F. TYPE 'A' WALL
 FOR DETAILS SEE SHEET NO. C-21

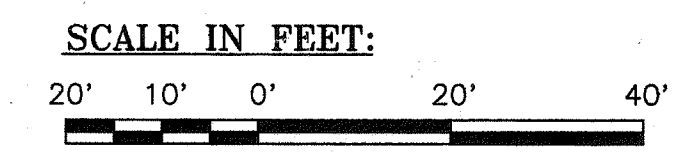
@ 'C' STA. 224+05 TO 224+30 RT. MEDIAN
 INSTALL BREAKAWAY CABLE TERMINAL

@ 'C' STA. 224+30 TO 227+25 RT. MEDIAN
 INSTALL 310 L.F. METAL GUARDRAIL

@ 'C' STA. 227+25 TO 227+50 RT. MEDIAN
 INSTALL BREAKAWAY CABLE TERMINAL

CHAIN LINK FENCE,
 WROUGHT IRON GATE,
 & WIRE MESH FENCE
 TO BE REPLACED
 @ 'C' STA. 227+81 TO 229+21
 CONSTRUCT 134 L.F. TYPE 'Y' WALL F.C.

CURVE DATA					
	BASE LINE		BAY ST. (CURB)		
	(5)	(6)	(12)	(13)	
Δ	50°11'00"	38°30'00"	83°35'00"	99°16'55"	
Δ/2	25°05'30"	19°15'00"	41°47'30"	49°38'27.5"	
R	1831.08'	1744.08'	26.00'	30.00'	
T	857.42'	609.06'	23.24'	35.30'	
Ch	1553.00'	1150.01'	34.65'	45.72'	
LC	1603.78'	1171.94'	37.93'	51.98'	



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 OR UNDER MY SUPERVISION.
 [Signature]
 REGISTERED PROFESSIONAL ENGINEER
 No. 1915-C
 HAWAII, U.S.A.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

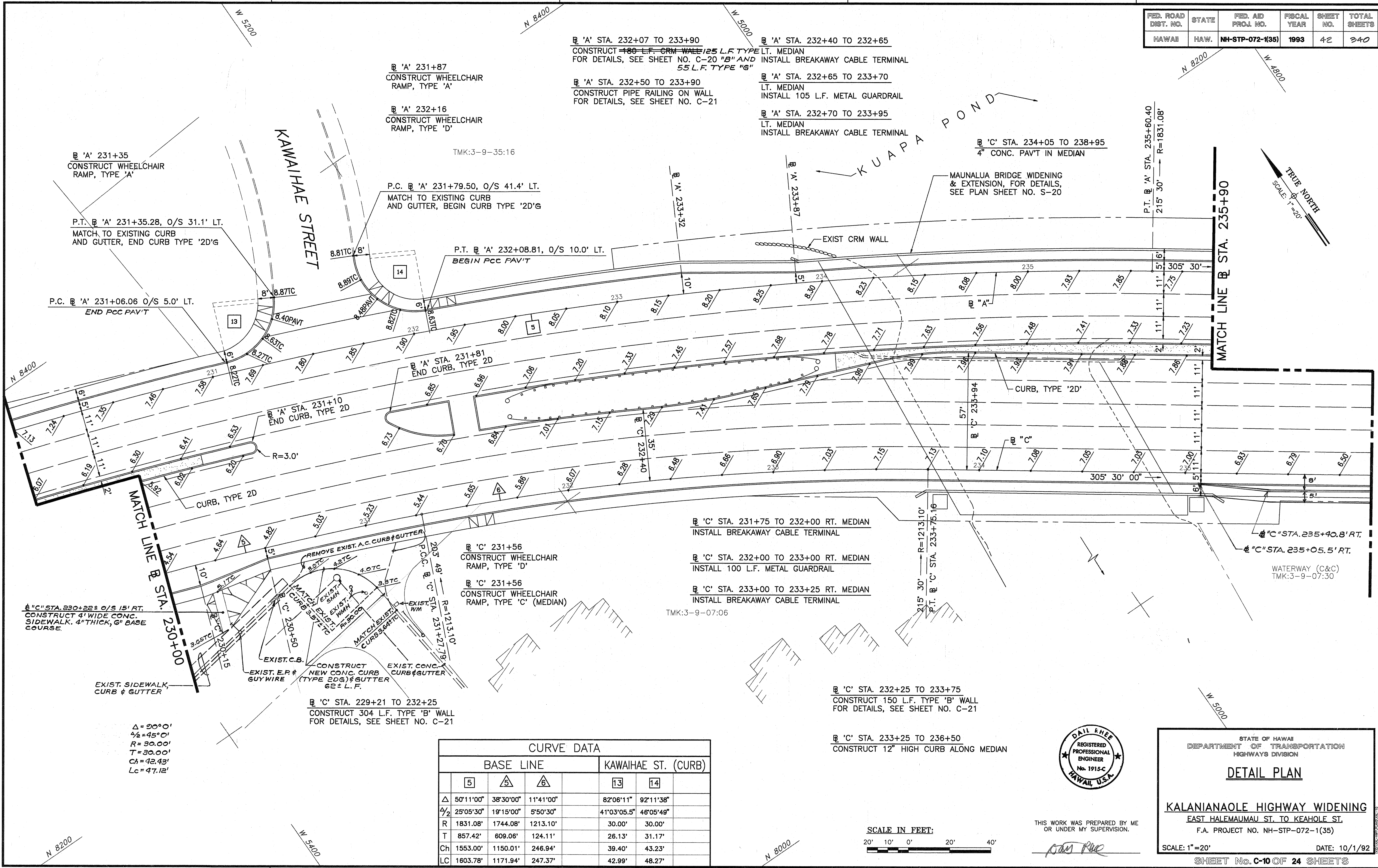
DETAIL PLAN

 KALANIANA'OLE HIGHWAY WIDENING
 EAST HALEMAUMAU ST. TO KEAHOE ST.
 F.A. PROJECT NO. NH-STP-072-1(35)
 SCALE: 1"=20' DATE: 10/1/92
 SHEET No. C-9 OF 24 SHEETS

"AS-BUILT"

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

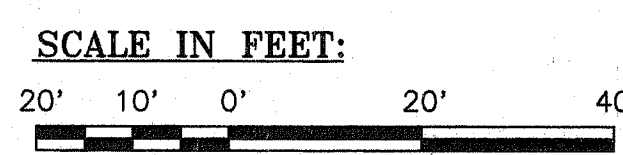
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	42	340



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY		
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		

Δ = 90° 0'
 Δ/2 = 45° 0'
 R = 30.00'
 T = 30.00'
 Ch = 42.43'
 Lc = 47.12'

CURVE DATA					
	BASE LINE			KAWAIHAE ST. (CURB)	
	5	6	7	13	14
Δ	50°11'00"	38°30'00"	11°41'00"	82°06'11"	92°11'38"
Δ/2	25°05'30"	19°15'00"	5°50'30"	41°03'05.5"	46°05'49"
R	1831.08'	1744.08'	1213.10'	30.00'	30.00'
T	857.42'	609.06'	124.11'	26.13'	31.17'
Ch	1553.00'	1150.01'	246.94'	39.40'	43.23'
Lc	1603.78'	1171.94'	247.37'	42.99'	48.27'



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[Signature]

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

DETAIL PLAN

KALANIANA'OLE HIGHWAY WIDENING

EAST HALEMAUMAU ST. TO KEAHOE ST.

F.A. PROJECT NO. NH-STP-072-1(35)

SCALE: 1"=20'

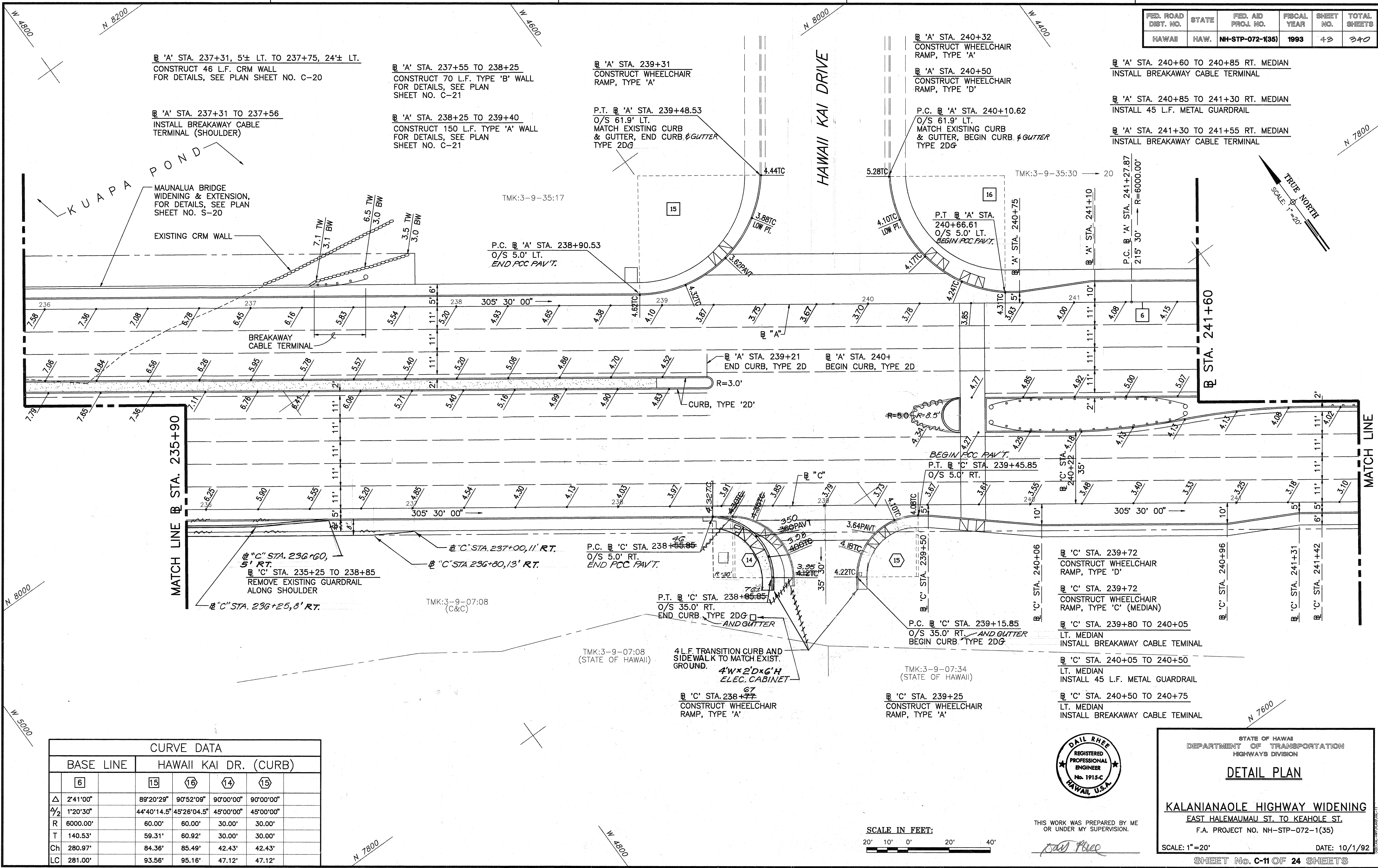
DATE: 10/1/92

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	43	240

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

CURVE DATA						
BASE LINE		HAWAII KAI DR. (CURB)				
	[6]	[15]	[16]	[14]	[15]	
Δ	2°41'00"	89°20'29"	90°52'09"	90°00'00"	90°00'00"	
Δ/2	1°20'30"	44°40'14.5"	45°26'04.5"	45°00'00"	45°00'00"	
R	6000.00'	60.00'	60.00'	30.00'	30.00'	
T	140.53'	59.31'	60.92'	30.00'	30.00'	
Ch	280.97'	84.36'	85.49'	42.43'	42.43'	
LC	281.00'	93.56'	95.16'	47.12'	47.12'	



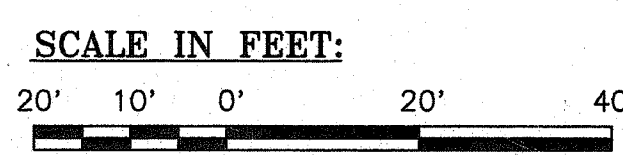
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN

KALANIANA'OLE HIGHWAY WIDENING
EAST HALEMAUMAU ST. TO KEAHOE ST.
F.A. PROJECT NO. NH-STP-072-1(35)

SCALE: 1"=20' DATE: 10/1/92

SHEET No. C-11 OF 24 SHEETS

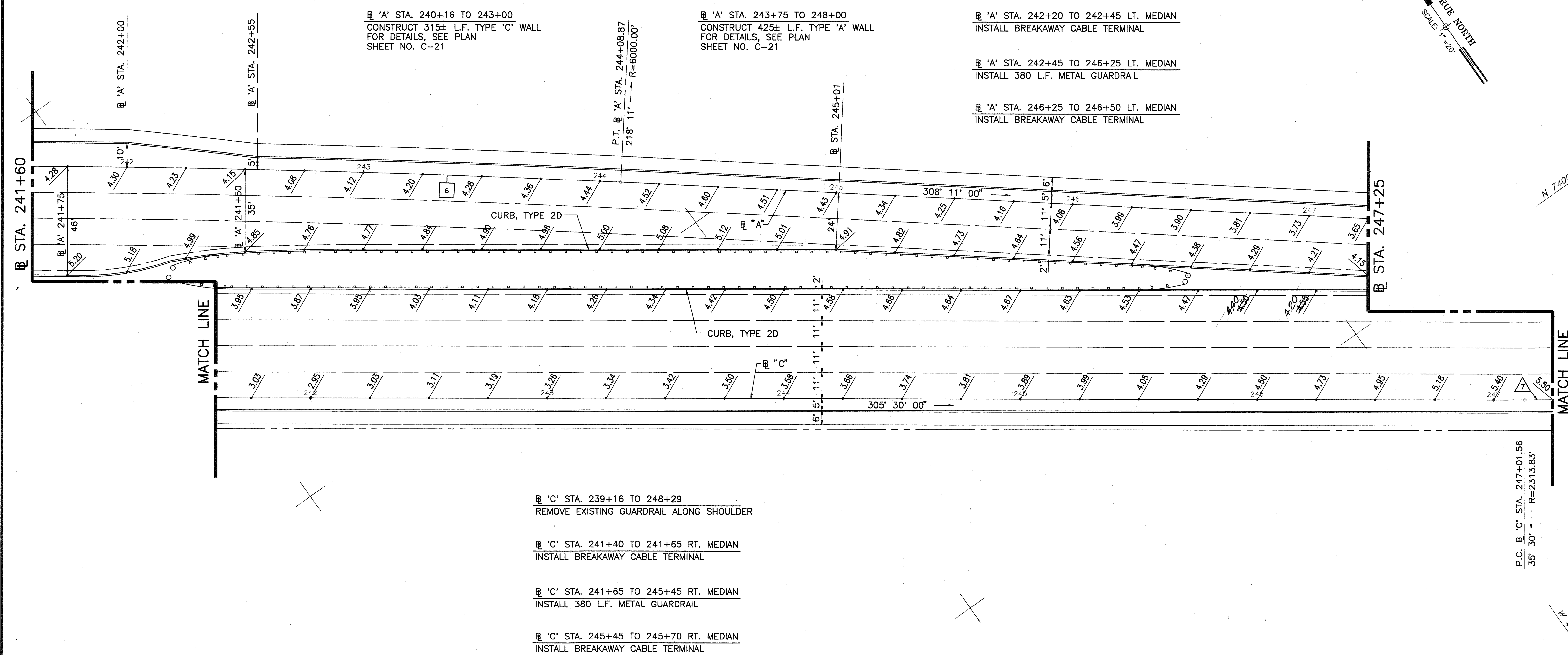


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"AS-BUILT"

CURVE DATA			
BASE LINE			
	6	△	
Δ	2'41"00"	11°50'36"	
Δ/2	1'20"00"	5°55'18"	
R	6000.00'	2313.83'	
T	140.53'	240.00'	
Ch	280.97'	477.43'	
LC	281.00'	478.28'	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	44	240



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



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OR UNDER MY SUPERVISION.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN

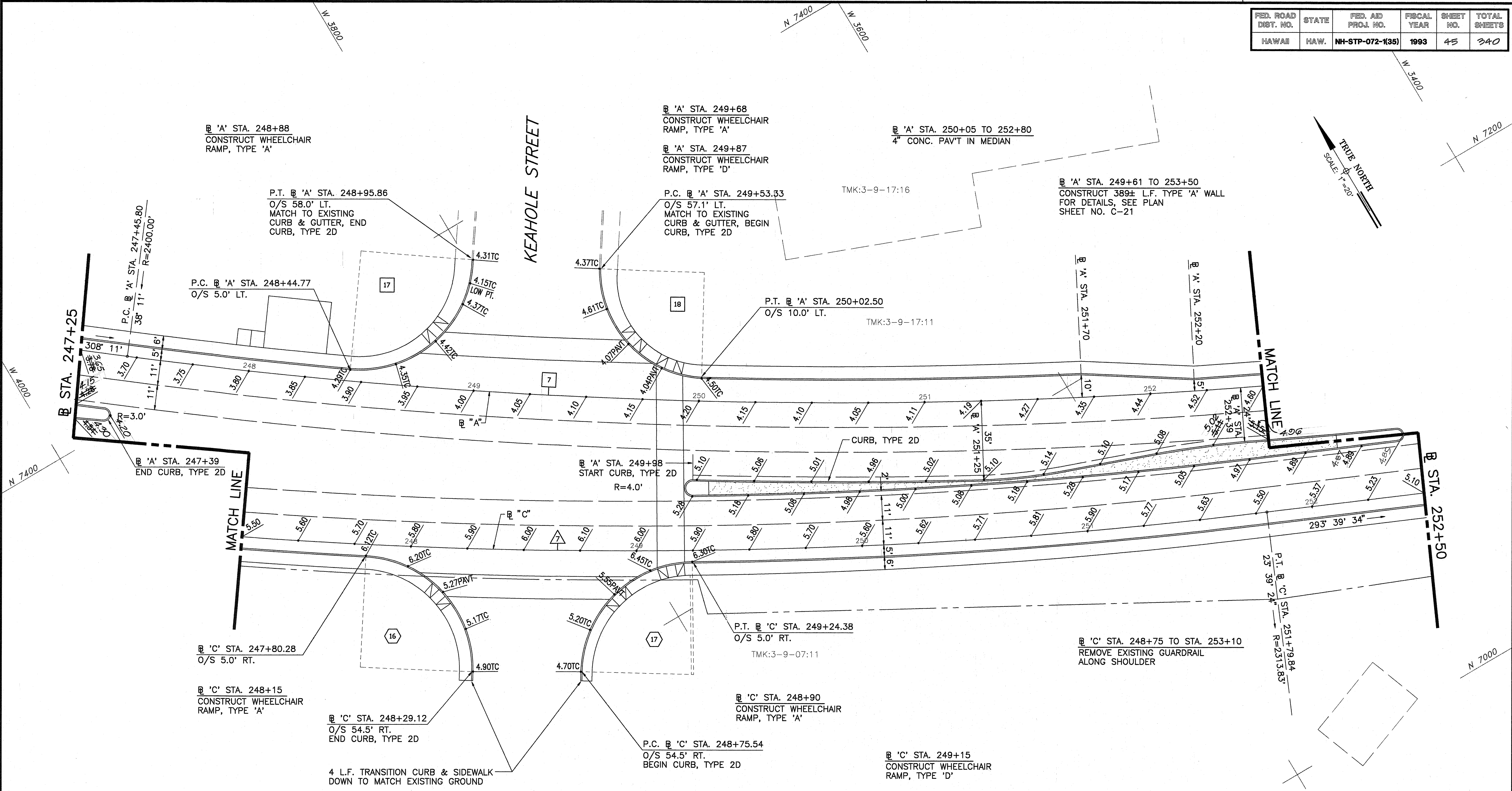
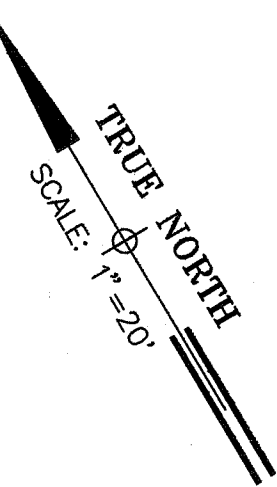
KALANIANA'OLE HIGHWAY WIDENING
EAST HALEMAUMAU ST. TO KEAHOLE ST.
F.A. PROJECT NO. NH-STP-072-1(35)

SCALE: 1"=20' DATE: 10/1/92

SHEET No. C-12 OF 24 SHEETS

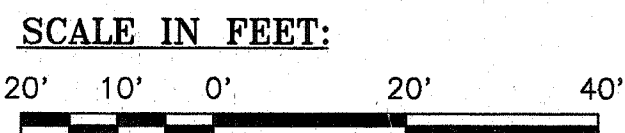
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	45	340



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
QUANTITIES BY	DESIGNED BY	
CHECKED BY	CHECKED BY	

CURVE DATA						
BASE LINE			KEAHOLE ST. (CURB)			
	7	17	18	16	17	
Δ	13°32'00"	11°50'36"	94°17'14"	89°28'42"	88°47'27"	88°47'27"
Δ/2	6°46'00"	5°55'18"	47°08'37"	44°44'21"	44°23'43.5"	44°23'43.5"
R	2400.00'	2313.83'	50.00'	48.00'	50.00'	50.00'
T	284.77'	240.00'	53.89'	47.57'	48.96'	48.96'
Ch	565.57'	477.43'	73.31'	67.57'	69.96'	69.96'
LC	566.88'	478.28'	82.28'	74.96'	77.49'	77.49'



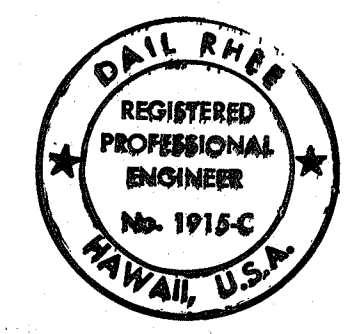
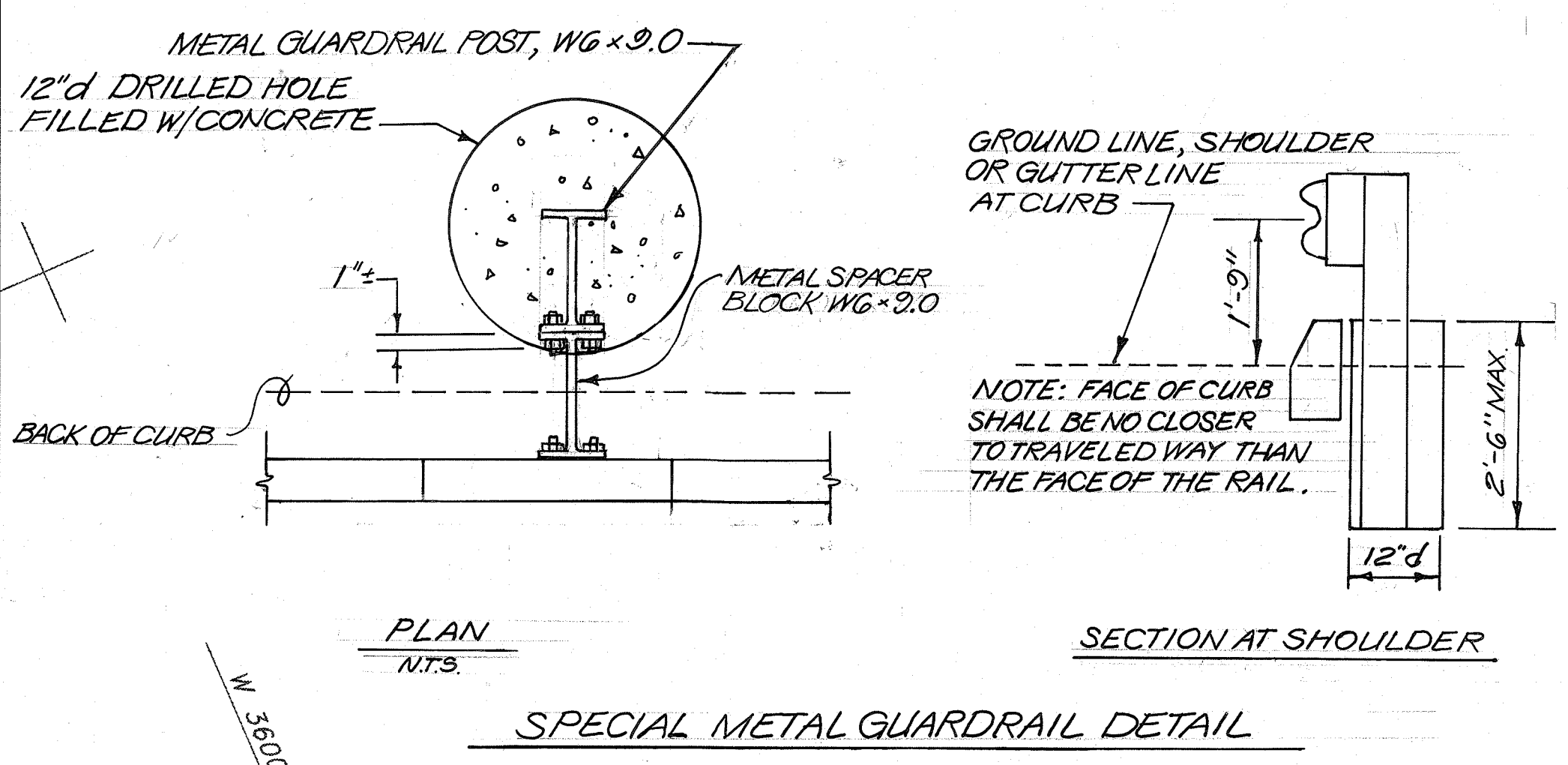
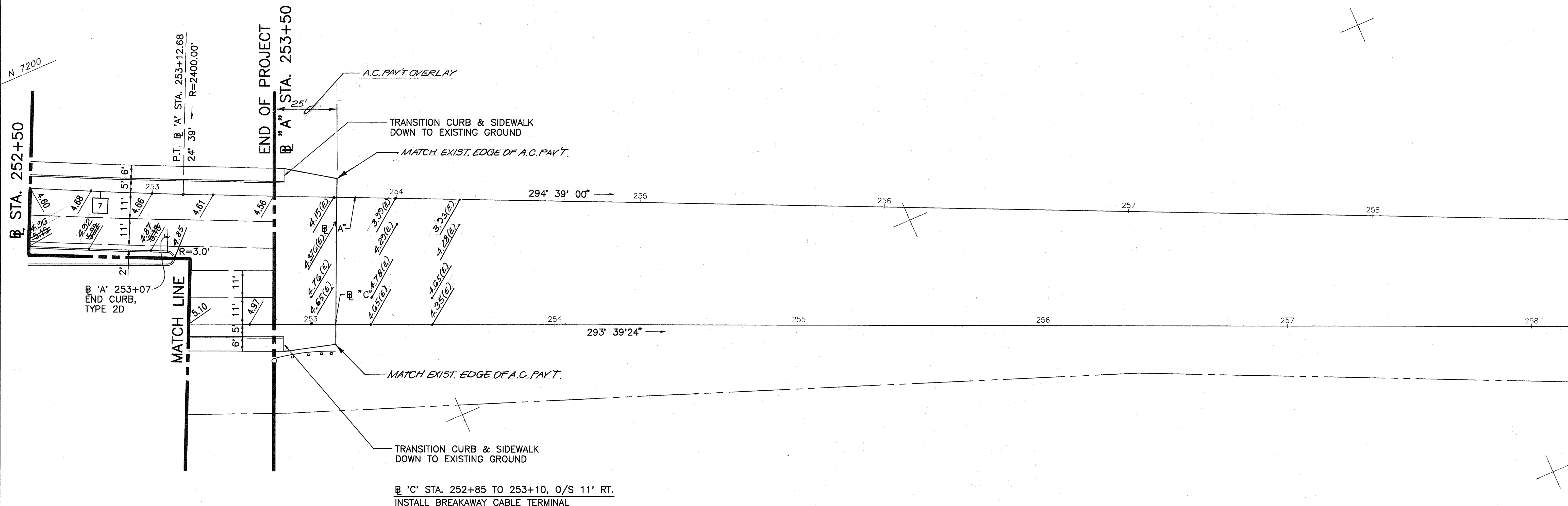
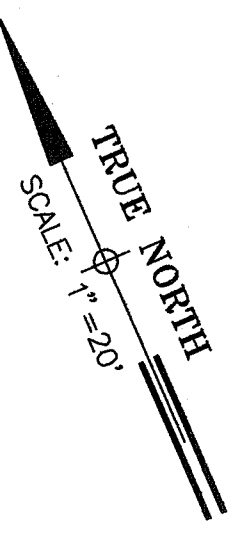
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
DETAIL PLAN
 KALANIANA'OLE HIGHWAY WIDENING
 EAST HALEMAUMAU ST. TO KEAHOLE ST.
 F.A. PROJECT NO. NH-STP-072-1(35)
 SCALE: 1"=20' DATE: 10/1/92
 SHEET No. C-13 OF 24 SHEETS

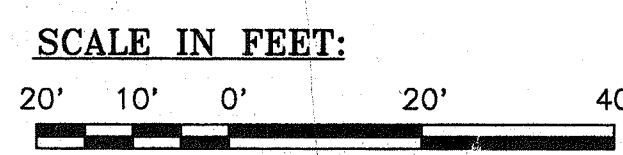
"AS-BUILT"

CURVE DATA		
BASE LINE		
	7	
Δ	13°32'00"	
Y/2	6°46'00"	
R	2400.00'	
T	284.77'	
Ch	565.57'	
LC	566.88'	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	46	340



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN

KALANIANA'OLE HIGHWAY WIDENING
EAST HALEMAUMAU ST. TO KEAHOLE ST.
F.A. PROJECT NO. NH-STP-072-1(35)
SCALE: 1"=20' DATE: 10/1/92
SHEET No. C-14 OF 24 SHEETS

"AS-BUILT"