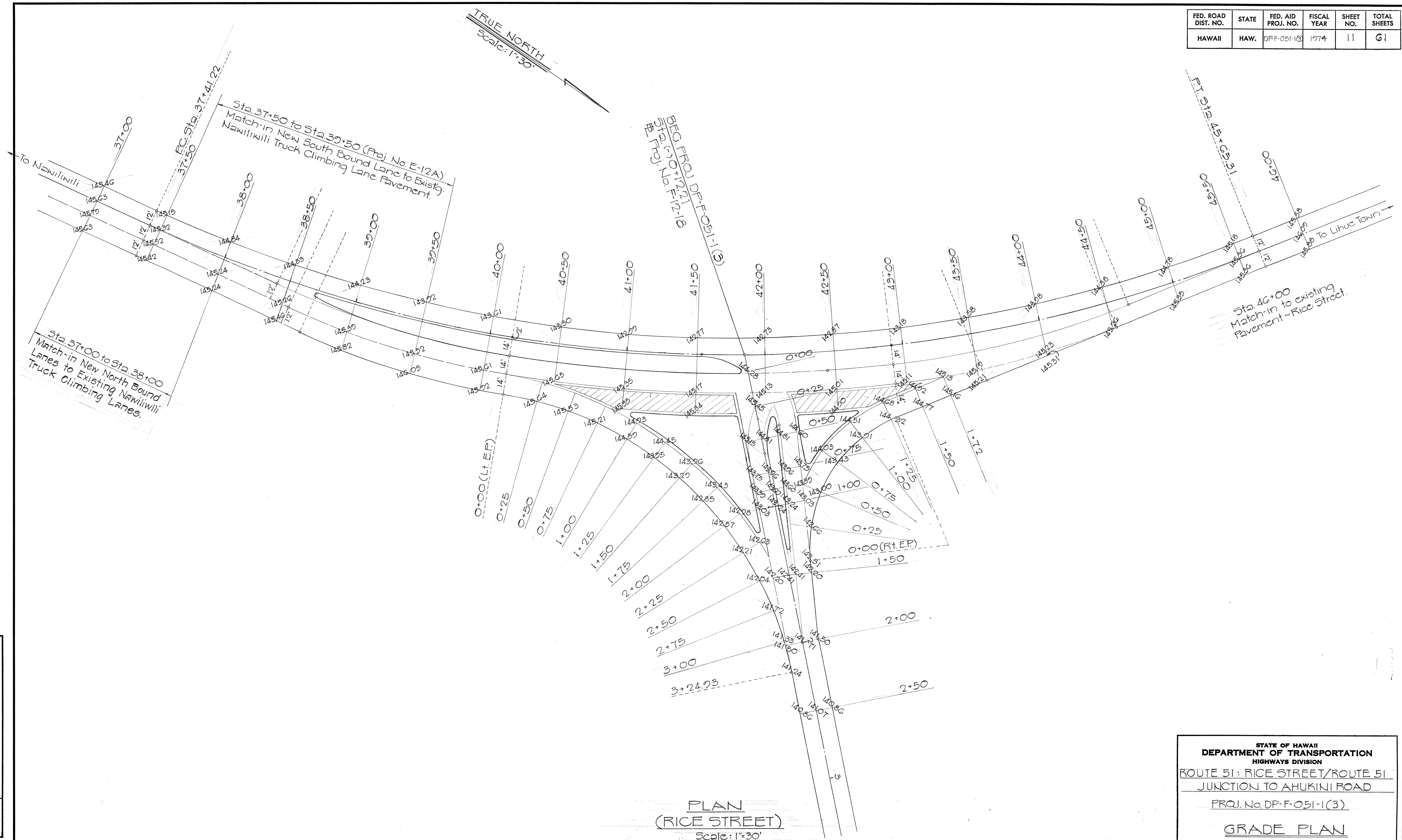


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DRF-051-1(3)	1974	11	61



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

K-E CRYSTALEND®
TRACING PAPER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DP-F-051-1(3)	1974	12	61

3-CENTERED COMPOUND CURVE											
No.	Δ	Δ/2	R	T	C	Lc	I	Ta	Tb	X1	Y1
1	36° 37' 03"	18° 18' 31.5"	151.09	49.99	94.93	96.56	18° 18' 31.5"	177.44	177.44	112.60	165.17
2	38° 11' 50"	19° 05' 55"	75.00	25.97	48.23	50.00	19° 05' 55"	113.30	113.30	136.41	111.80
3	36° 37' 03"	18° 18' 31.5"	151.11	50.00	94.94	96.57	18° 18' 31.5"	177.44	177.44	112.60	165.17
4	22° 47' 26"	11° 23' 43"	94.38	32.17	76.79	77.29	11° 23' 43"	113.30	113.30	136.41	111.80
5	32° 44' 26"	16° 22' 13"	70.00	20.56	39.46	40.00	16° 22' 13"	113.30	113.30	136.41	111.80
6	22° 47' 26"	11° 23' 43"	97.25	32.76	77.94	78.46	11° 23' 43"	113.30	113.30	136.41	111.80

SIMPLE CURVE						
No.	Δ	Δ/2	R	T	C	Lc
B	2° 48' 07"	1° 24' 03.5"	1964	48.03	96.04	96.05
C	38° 11' 50"	19° 05' 55"	72	31.86	60.80	61.33
E	5° 14' 12"	2° 37' 06"	1964	82.81	179.44	179.50
F	27° 30' 36"	13° 45' 18"	87	21.42	41.59	42.00

CURVE DATA - AHUKINI RD.
 Δ = 17° 10' 00"
 R = 2000.00'
 T = 301.88'
 C = 596.99'
 Lc = 599.23'

END PROJ. DP-F-051-1(3)
 Sta. 56+33.89
 True North
 Scale: 1"=30'

CURVE DATA
 Δ = 11° 48' 30"
 R = 6000.00'
 T = 1234.48'
 C = 1234.38'
 Lc = 1236.57'

R = 6000.00' 284° 48' 30" →
 P.T. Sta. 51+62.16 Proj. No. DP-F-051-1(2)
 To Rice St.
 124° 48' 30" →

R = 1276.00' 124° 53' 00" →
 P.T. Sta. 55+50.00 Proj. No. DP-F-051-1(3)
 To Airport →

PLAN
 (AHUKINI ROAD)
 Scale: 1"=30'

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

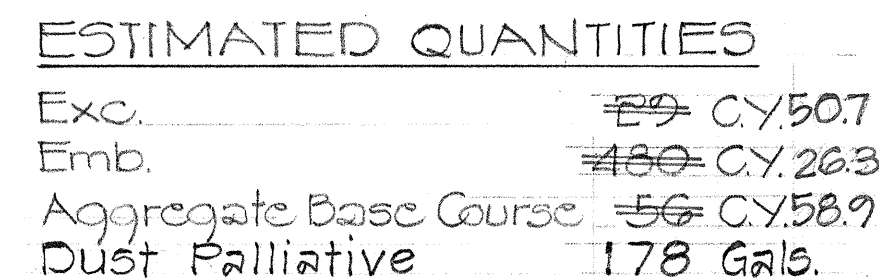
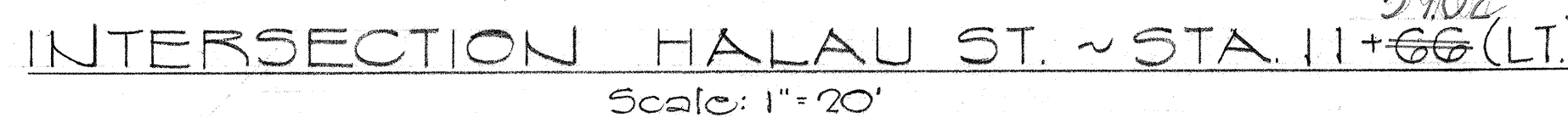
ROUTE 51: RICE STREET/ROUTE 51
 JUNCTION TO AHUKINI ROAD
 PROJ. No. DP-F-051-1(3)
 GRADE PLAN
 Scale: As Shown July 1973
 SHEET No. 2 OF 4 SHEETS

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

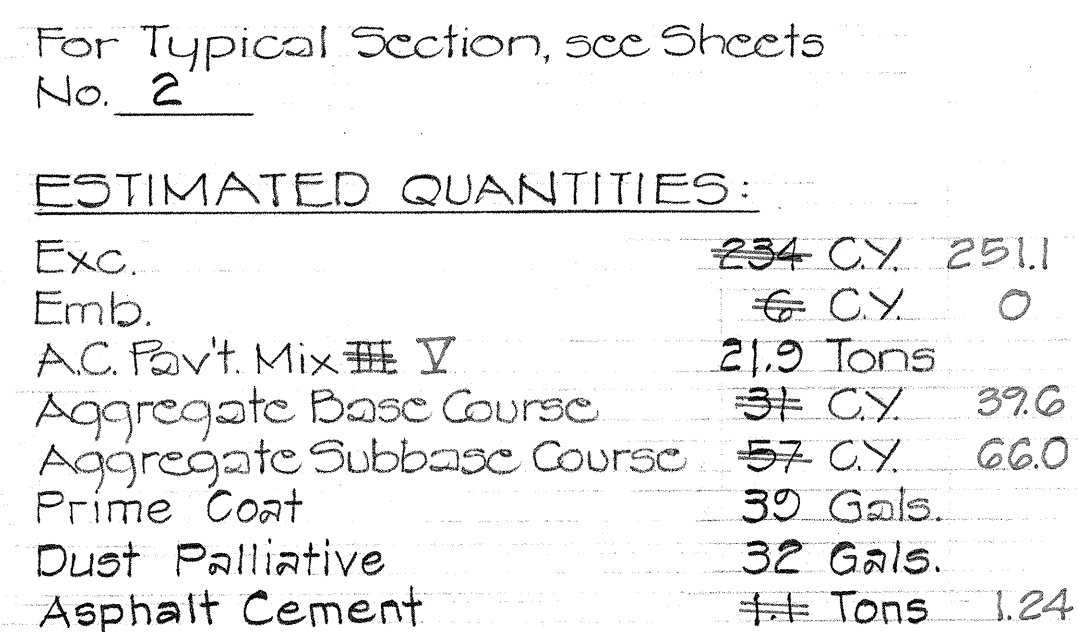
For Typical Section, see Sheets
No. 2

Exc.	755	C.Y.	797.8
Emb.	2	C.Y.	0
A.C. Pav't. Mix III V	59.9	Tons	
Aggregate Base Course	63	C.Y.	790
Aggregate Subbase Course	142	C.Y.	136.7
Prime Coat.	170	Gals.	
Asphalt Cement	3	Tons	339

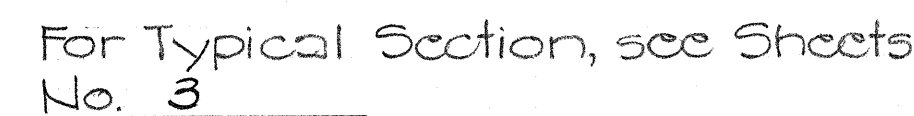
Note: Maintain normal gutter grade at main gutter line unless otherwise directed. Distance from gutter line to edge of pavement varies at intersections, gutter slope to vary accordingly. Match-in approach road gutter grades to provide smooth gutter flow.



For Typical Section of Field Road, see Sheet No. 3



APPROACH @ STA. 4+17 (L.I.)
Scale: 1" = 20'



ESTIMATED QUANTITIES

Exc.	128	C.Y.	334.1
Emb.	4	C.Y.	0
A.C. Pav't. Mix III V	21.9	Tons	
Aggregate Base Course	26	C.Y.	206
Aggregate Subbase Course	43	C.Y.	47.6
Prime Coat.	59	Gals.	
Asphalt Cement	111	Tons	1.24

CURVE DATA (2)

$\Delta = 20^{\circ}00'$
 $R = 40.00'$
 $T = 40.00'$
 $C = 56.57'$
 $L_c = 62.84'$

APPROACH TO STADIUM PARKING @ STA. 25+43 (LT.)
Scale: 1"=20'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROUTE 51: RICE STREET/ROUTE 51
JUNCTION TO AHUKINI ROAD

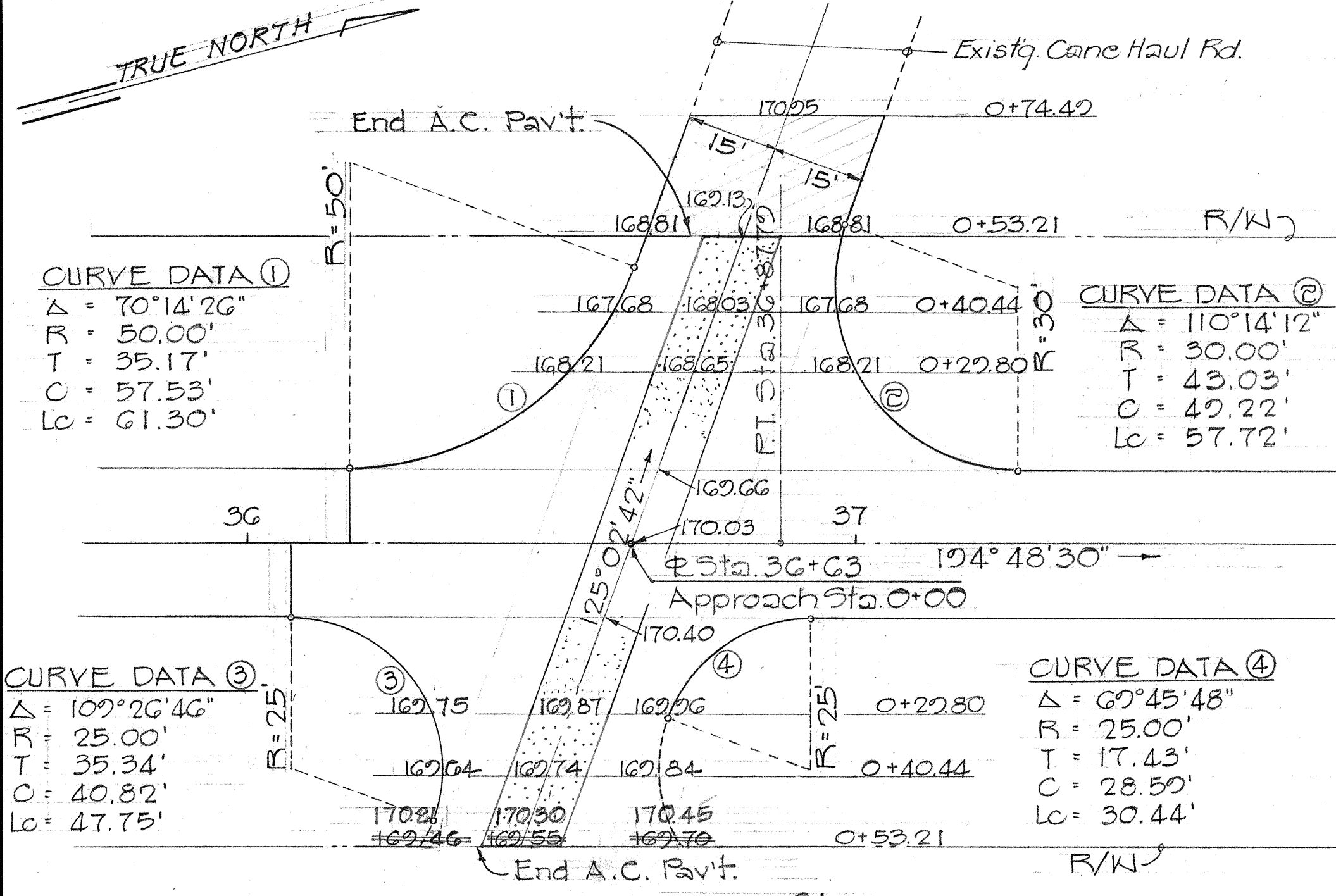
PROJ. No. DP-F-051-1(3)

GRADE PLANS

Scale: As Shown July 1973

SHEET No. 3 OF 4 SHEETS

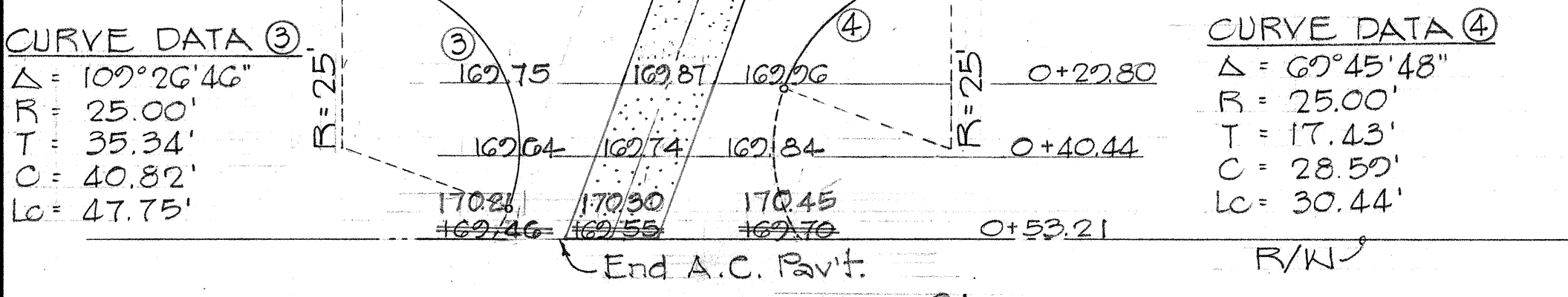
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DP-F-051-1(3)	1974	14	61



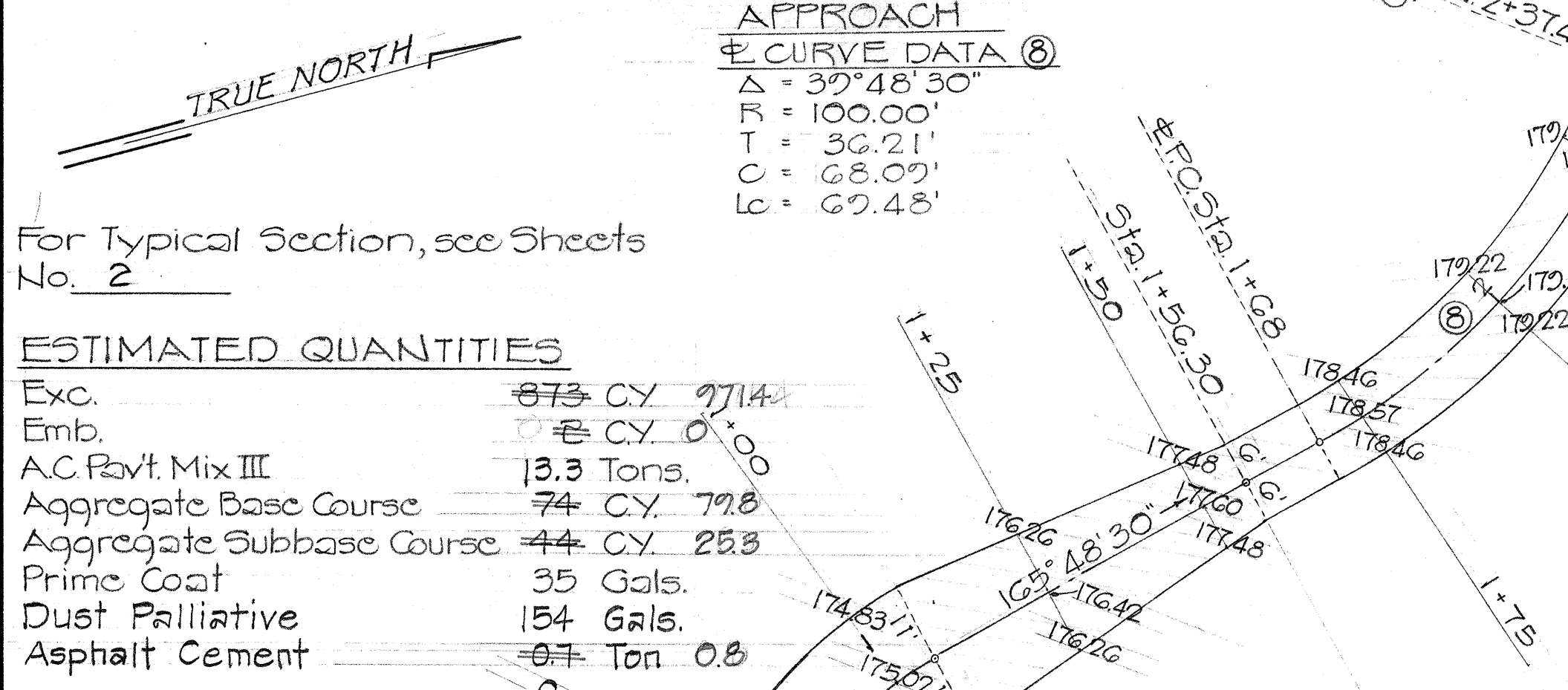
For Typical Section, see Sheets No. 2

ESTIMATED QUANTITIES

Exc.	10± CY	306.1
Emb.	± CY	0
A.C. Pavt. Mix III	10± Tons	52.7
Aggregate Base Course	± CY	57.7
Aggregate Subbase Course	55± CY	868
Prime Coat	48± Gals.	274.0
Dust Palliative	38± Gals.	
Asphalt Cement	± Ton	3.0



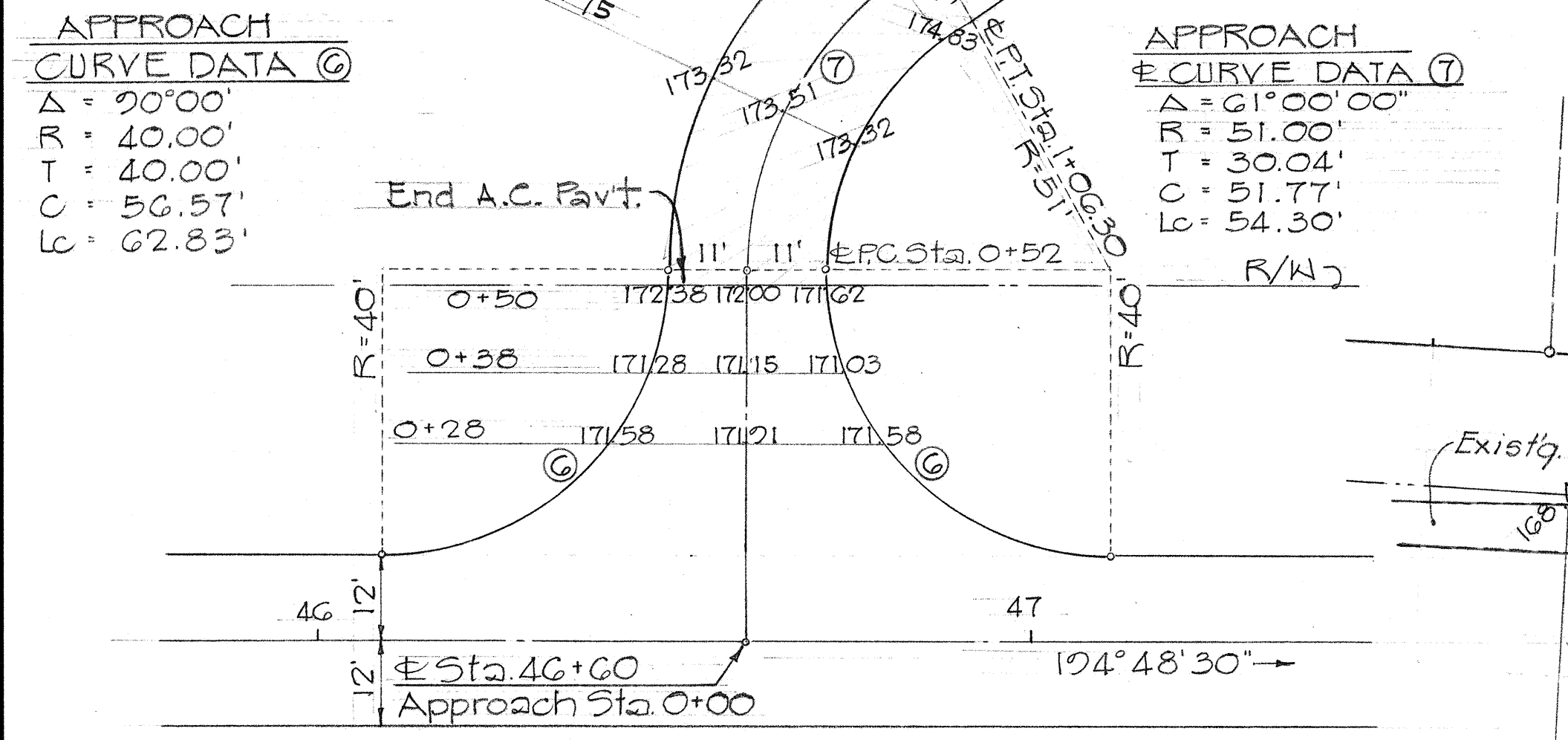
APPROACH @ STA. 3G+63 (LI. & RT.)
Scale: 1"=20'



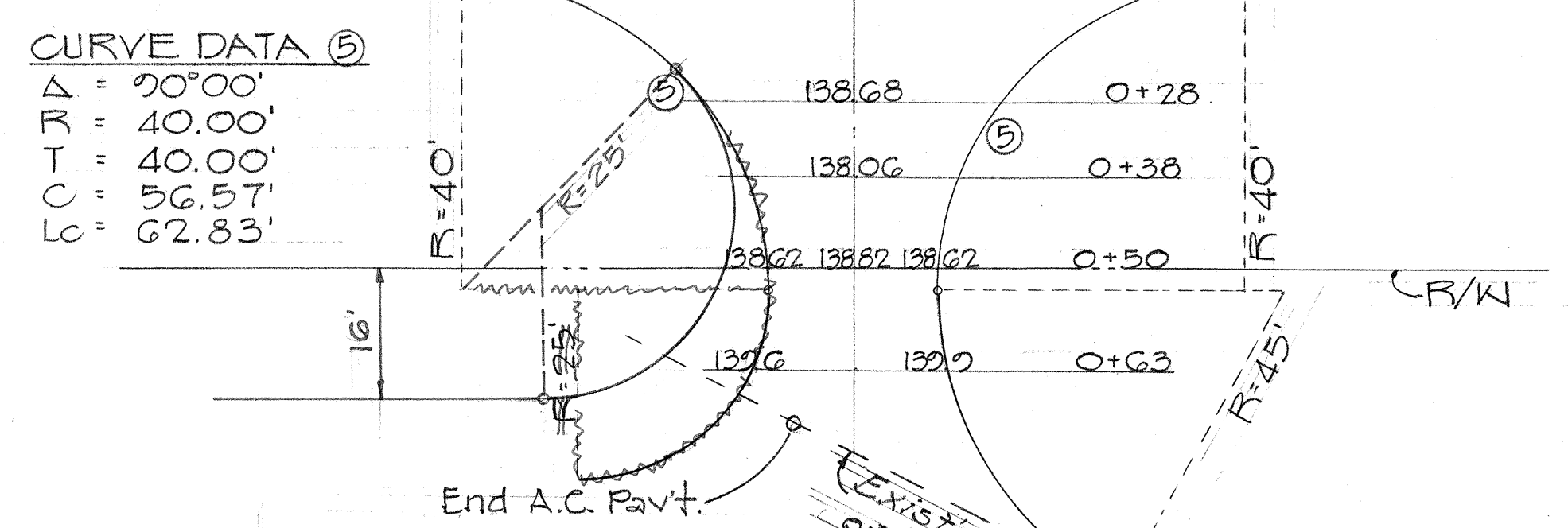
For Typical Section, see Sheets No. 2

ESTIMATED QUANTITIES

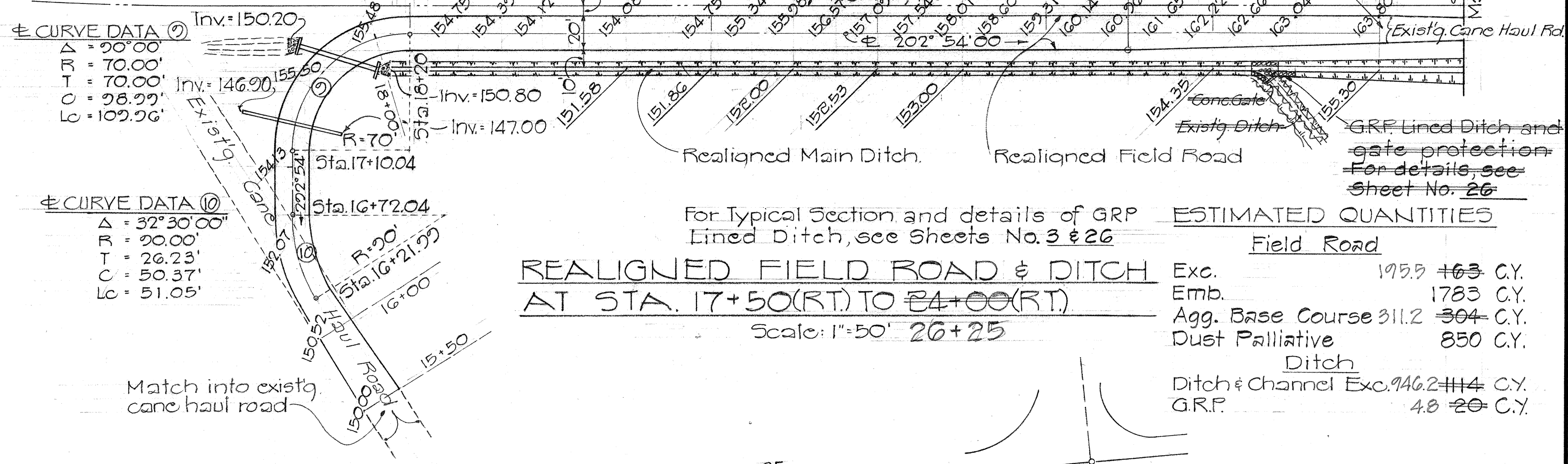
Exc.	87± CY	271.4
Emb.	± CY	0
A.C. Pavt. Mix III	13.3± Tons	
Aggregate Base Course	74± CY	79.8
Aggregate Subbase Course	44± CY	253
Prime Coat	35± Gals.	
Dust Palliative	154± Gals.	
Asphalt Cement	0.7± Ton	0.8



APPROACH @ STA. 4G+60 (LI.)
Scale: 1"=20'



APPROACH @ STA. 6+00 (RT.)
Scale: 1"=20'



REALIGNED FIELD ROAD & DITCH AT STA. 17+50 (RT) TO 24+00 (RT.)
Scale: 1"=50' 26+25

For Typical Section and details of GRP Lined Ditch, see Sheets No. 3 & 26

ESTIMATED QUANTITIES

Exc.	195.5±	163± CY
Emb.		1783± CY
Agg. Base Course	311.2±	304± CY
Dust Palliative		850± CY
Ditch		
Ditch & Channel Exc.	946.2±	44± CY
GRP	4.8±	20± CY

ESTIMATED QUANTITIES

Exc.	414± CY	294.6
Emb.	718± CY	
Agg. Base Course	252± CY	257.9
Dust Palliative	080± CY	

REALIGNED FIELD ROAD & DITCH AT STA. 28+50 (RT) TO 35+80 (RT.)
Scale: 1"=50' 26+25

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROUTE 51: RICE STREET/ROUTE 51
JUNCTION TO AHUKINI ROAD
PROJ. No. DP-F-051-1(3)
GRADE PLANS
Scale: As Shown July 1973
SHEET No. 4 OF 4 SHEETS

DATE	1973
DESIGNED BY	...
DRAWN BY	...
CHECKED BY	...
APPROVED BY	...
ORIGINAL PLAN	...
NOTE BOOK	...
QUANTITIES BY	...
CHECKED BY	...
No.	...