

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0360(4)	1963	3	27

Relocate Exist. F.A. Marker to New Location as Directed by Engineer
Install Additional No. 1 Plate For F.A. Marker

Scarify Exist. Pavt. (Hatched Area)
to a depth of six (6) inches. Payment to be incidental to Roadway Excavation.
Exist. Route Markers to be Relocated by Others.

Make Smooth Riding Connection to Exist. Pavt.

Sta. 0+50 to 10+75 Lt.
Sta. 0+50 to 9+00 Rt.
Install Relectorized Delineators as per Detail.

25-24 ea. Lt.
24-22 ea. Rt.

Sta. 3+00, 5+15, 9+70 Lt.
Sta. 0+20, 4+05 Rt.
Install Reflector Marker (RM-1) on sign post-5 each.

Deleted C.O. #6
Sta. 2+70 to 3+70 Lt.
Construct New Standard Wire Fence with Wood Posts along R/W-100 Lin. Ft.

Existing ROW Line

Exist. 24" Conc. Culvert

Exist. Paved Road

Exist. W2-21 RM-1

Existing ROW Line

Sta. 11+50 to 13+50 Lt.

Remove large trees 11-9 each

5+25 Rt. Roadway to 3+60 Rt. on Sta. 2+00 to 4+50 Rt. on Access Road at Sta. 7+00

Const. Type "H" Conc. Gutter as per Detail. 250 Lin. Ft. 317.50

Match Line

SC Sta. 2+50

W2-21 RM-1

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W2-21 RM-1

Sta. 4+77
Install 14 Ga. Corr. Galv. Metal Pipe
64 Lin. Ft. 2- Conc. H.W.
Class B-1 Conc. = 2.78 cu. y. 2.82 cu. y.
Reinf. Steel = 84 lbs.
Struc. Exc. = 27 cu. y. 28.0 cu. y.
Channel Exc. = 24 cu. y. 21.0 cu. y.

Sta. 2+50 to 6+75 Lt.

Install Metal Guard Rail with Conc. Posts.

425 Lin. Ft. 440.50

Exist. F.A. Marker

End of Exist. Pavt.

Exist. ROW Line

Deleted C.O. #5

Remove, clean, and return exist. 24" concrete culvert to State Highways Division

Baseyard in Kahului 36 Lin. Ft.

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Exist. Wire Fence
Exist. Gate
Exist. Conc. Pipe Culvert
Drainage Ditch
Drainage Ditch
Drainage Ditch

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True North
Scale: 1"=50'

Sta. 7+00 Lt. & Rt.

Const. Approach & Access Rd.

Pavt. Area = 1403 sq. ft. 1175 sq. ft.

B. C. Area = 1556 sq. ft. 1251 sq. ft.

Exc. = 1327 cu. y. 1970 cu. y.

Emb. = 452 cu. y. 451 cu. y.

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Curve Data
A = 14° 00'
D = 5° 00'
R = 1145.32
L = 130.00
E = 150.00
T = 215.70
L.T. = 100.02
S.T. = 50.00
X = 140.04
Y = 3.27
S/L = 3.45
S/E = 0.064

Curve Data - Access Rd.
A = 75° 18' 30"
D = 60° 00'
R = 220.00
L = 113.80
T = 48.85

Curve Data
A = 32° 34'
D = 200.00
R = 113.80
L = 50.43

Curve Data
A = 128° 00'
D = 16° 00'
R = 358.10
L = 550.00
T = 250.00
E = 873.56
L.T. = 167.74
S.T. = 84.31
X = 246.07
Y = 28.64
S/L = 20° 00'
S/E = 0.12

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HAWAII	HAW.	5-0360(4)	1963	4	27

Sta. 14+65 to 20+00 Lt.
17+00 to 21+50 Rt.
23+75 to 26+00 Lt. & Rt.
Remove large trees
61 5/8 Each

26+25 21+50 to 27+75 Rt.
Sta. 23+50 to 25+55 Lt. Sta. 22+55 to 27+50 Rt.
Install ReflectORIZED Delineators
as per Detail.
8 7/8 ea. Lt.
14 1/2 ea. Rt.

Sta. 20+50 to 23+50 Lt.
Const. Type "H"
Conc. Gutter
302 Lin. Ft.
302

Sta. 24+00 Lt.
Install 8" 16 Ga. Perforated C.G.M. Pipe
for Subdrain 100 Lin. Ft.
(Extra Work) C.O. #3

Sta. 23+50 to 26+00 Lt.
Install Metal Guard
Rail w/ Conc. Posts
450 Lin. Ft.
265.50

Sta. 23+50 to 26+50 Lt.
Construct Detour Road where required
(See Cross-Sections for approximate
location and grade.) The detour road shall
consist of 4" Select Borrow Base only, placed
to a maximum width of 15'.

CURVE DATA	
Δ	78°
Dc	16"
R	358.10
Lc	362.50
Ls	250.00
Ts	412.24
Tx	207.38
Lt	107.74
St	54.31
Xc	240.07
Yc	28.84
Ea	20°
SE	0.12

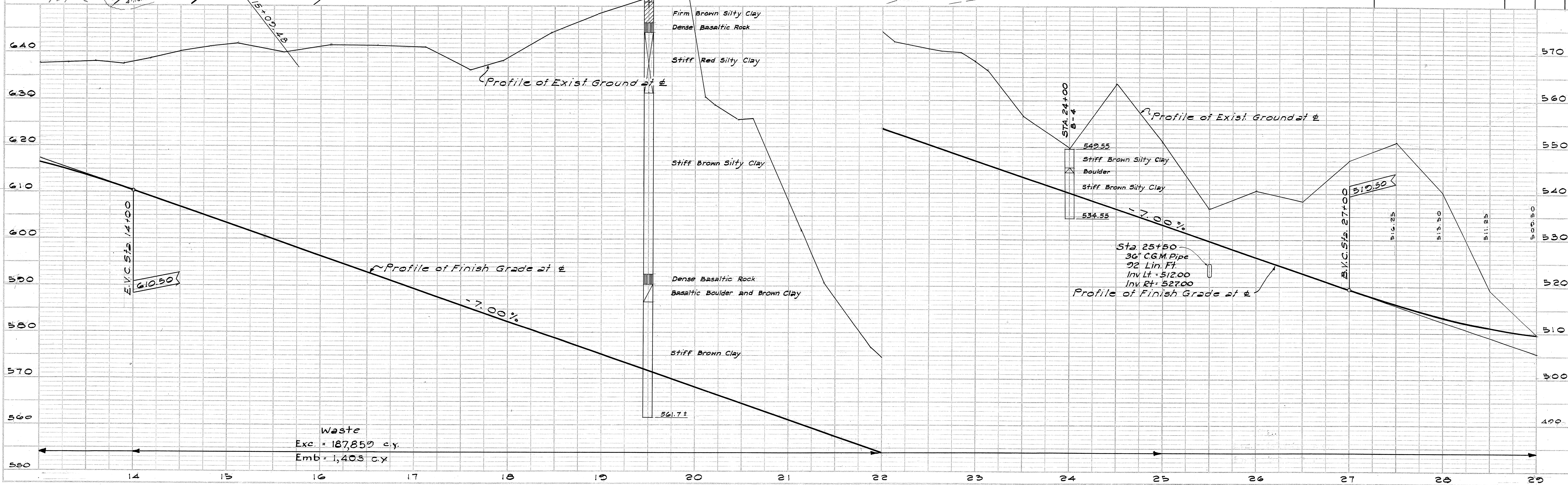
Sta. 25+50
Install 36" 10 Ga. Corr. Galv. Metal
pipe with paved Invert.
92 Lin. Ft. 2 C.D.I., 1 Conc. H.W.
Class B-1 Conc. 5.00 c.y.
Reinf. Steel 60 lbs.
G.R.P. 5.00 c.y. 2.60 c.y.
For Detail See Sheet No. 5
Structure Exc. 101.44 105.5 c.y.
Ditch & Channel Exc. 41.44 8.5 c.y.

STA. 19+50
B-3-90°

CURVE DATA	
Δ	40°
Dc	16"
R	358.10
Lc	37.50
Ls	250.00
Ts	229.37
Ea	38.80
Lt	167.74
St	84.31
Xc	240.07
Yc	28.84
Ea	20°
SE	0.12

Sta. 20+68 to 22+45
Install 8" 16 Ga. Perforated C.G.M. Pipe
for Subdrain 192 Lin. Ft.
(Extra Work) C.O. #4

POINTS OF ACCESS		
STATIONS	WIDTH OF ACCESS	
	LEFT	RIGHT
0+00 to 5+85	385'	
0+00 to 2+65		265'±
7+00	46.97'	46'
29+00	42.13'	



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HAWAII	HAW.	S-0360(4)	1963	5	27

SUMMARY OF REGULATORY AND WARNING SIGNS			
TYPE	DESCRIPTION & REMARKS	WITH POSTS	PLATE ONLY
R1-1	STOP	4	
R4-1	DO NOT PASS	1	
R4-2	PASS WITH CARE	1	
W1-5R	WINDING ROAD	1	
W2-1	INTERSECTION	2 +	1 *
W2-2R	SIDE ROAD	2	
W2-2L	SIDE ROAD	2 +	1 *
W13-1(35)	SPEED LIMIT		+ 2
RM-1	REFLECTORIZED DELINEATORS	26	48
* ON RELOCATED POST AT STA. 27+00			
** ON RELOCATED POST AT STA. 27+10R			

SUMMARY OF SIGN RELOCATION				
FROM STA.	TO STA.	TYPE	DESCRIPTION & REMARKS	AMT.
25+100 To 27+150	25+90 To 27+45 Lt.	RM-1	REFLECTORIZED DELINEATORS	0
28+35 To 29+50	28+30 To 29+50 Rt.	RM-1	REFLECTORIZED DELINEATORS (Bi-directional)	0
27+80 Lt.	27+90 Rt.	W1-5R W13-1(35) RM-1	WINDING ROAD SPEED LIMIT REFLECTORIZED DELINEATORS	0
27+80 Lt.	27+70 Lt.	RM-1	REFLECTORIZED DELINEATORS WITH POST (REMOVE SIGN PLATE W15-1)	0
28+80 Lt.	27+10 Rt.	RM-1	REFLECTORIZED DELINEATORS WITH POST (REMOVE SIGN PLATE W18-3)	0

SUMMARY OF CONSTRUCTION SIGNS			
TYPE	DESCRIPTION & REMARKS	WITH POST	PLATE ONLY
	BARRICADES W/BLINKERS 11		
M5-7L	DETOUR		2 *
W20-1b	ROAD CONSTRUCTION 1000 FT.	1	
W20-1d	ROAD CONSTRUCTION AHEAD	1	
* SIGN PLATE M5-7L TO BE MOUNTED 1 EACH ON BARRICADE AT STA. 27+00 L AND 27+80 ACCESS ROAD.			

GENERAL NOTES

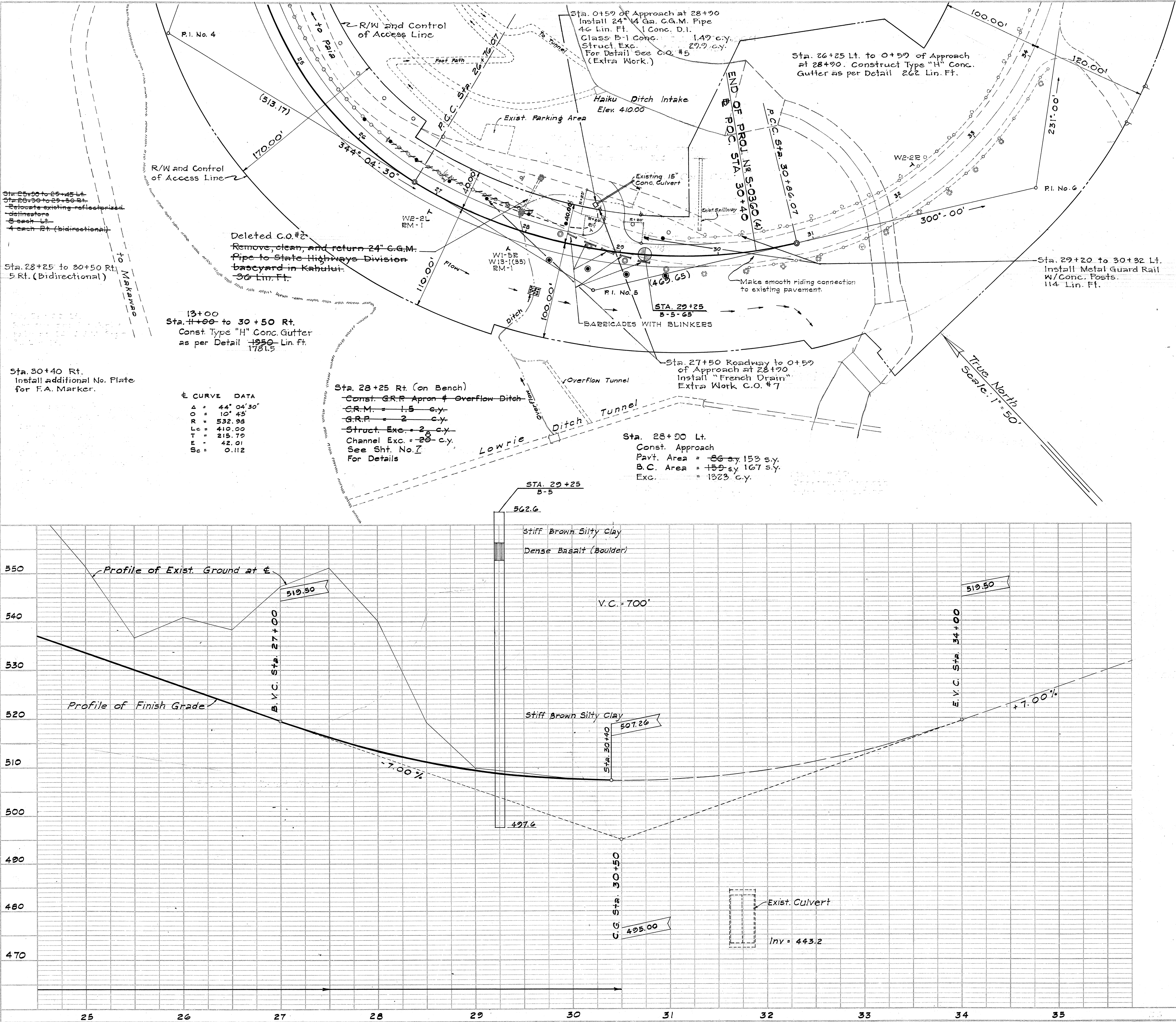
- Barricades as shown on the plans are intended as a guide only, and the exact type, number and locations of barricades shall be as directed by the Engineer.
- Rental (including installation and maintenance) of barricades and blinkers will be paid for under item 115 "Maintaining Detours".
- When ordered by the Engineer, the Contractor shall remove the temporary signs used during construction. The Contractor shall return these temporary signs and sign plates W15-1 and W18-3 to the State Highways Division baseyard in Kahului (6 signs).

LEGEND FOR REGULATORY, WARNING AND CONSTRUCTION SIGNS

- Existing Signs and delineators to be relocated.
- New or relocated Signs and delineators.
- Existing Signs and delineators to remain.

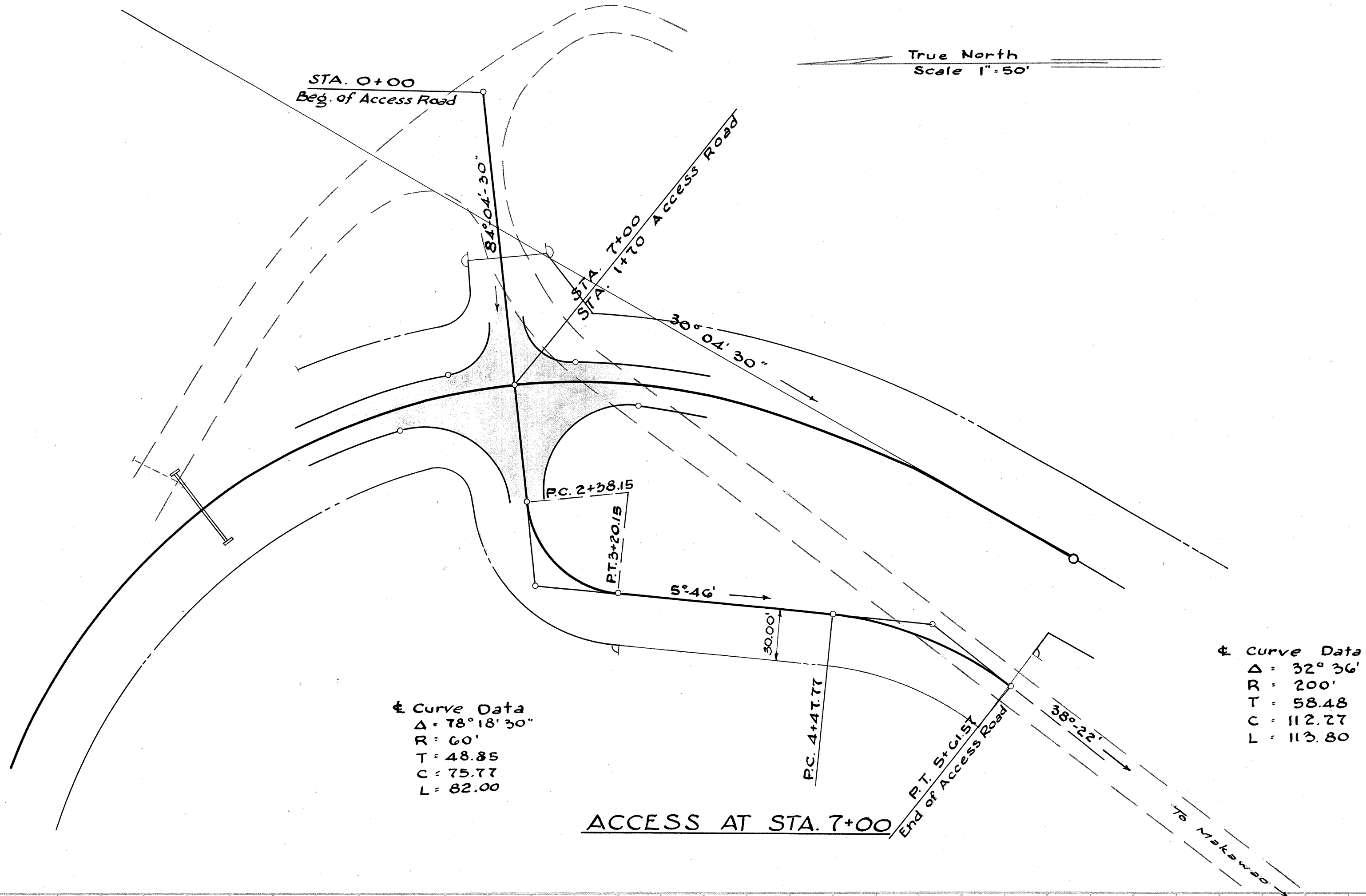
PLAN	SURVEYED	DATE
	BY	
	PLOTTED	
	NOTE BOOK CRUISES CHECKED	
	RT. OF WAY CHECKED	
	NO.	

PROFILE	SURVEYED	DATE
	BY	
	PLOTTED	
	NOTE BOOK CRUISES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0360 (4)	1963	6	27

PLAN	SURVEYED	DATE
NOTE BOOK	FLOTTED	
NO.	RT. OF WAY CHECKED	
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PROFILE	SURVEYED	DATE
NOTE BOOK	FLOTTED	
NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKO.	

