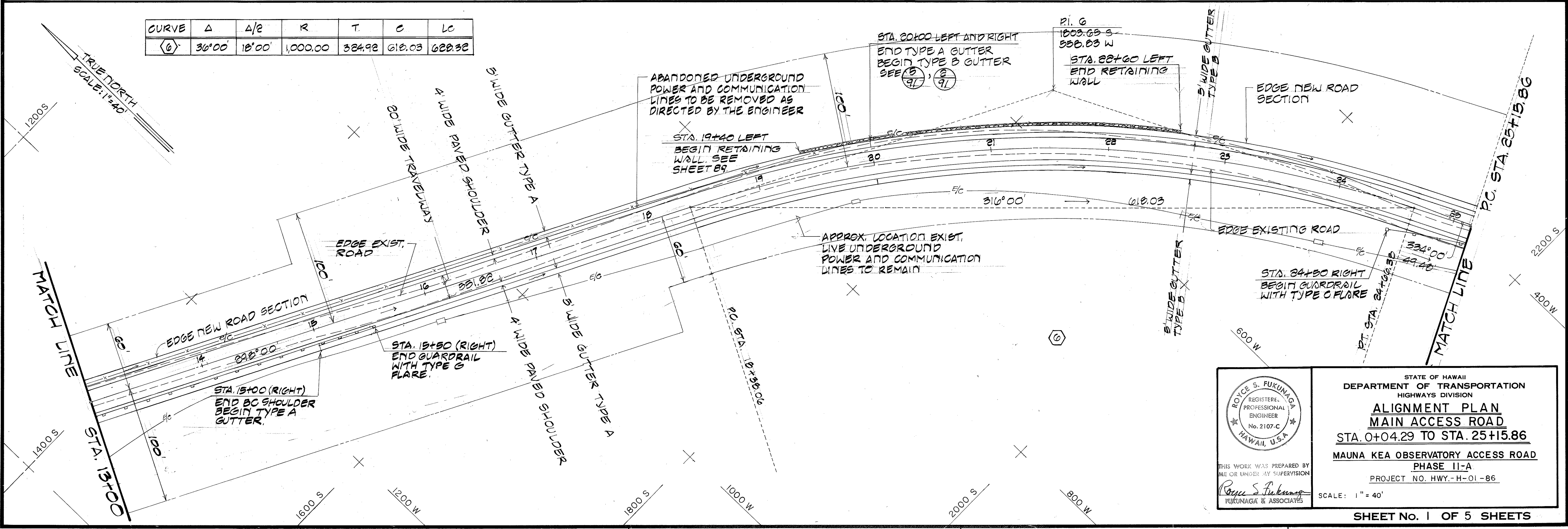
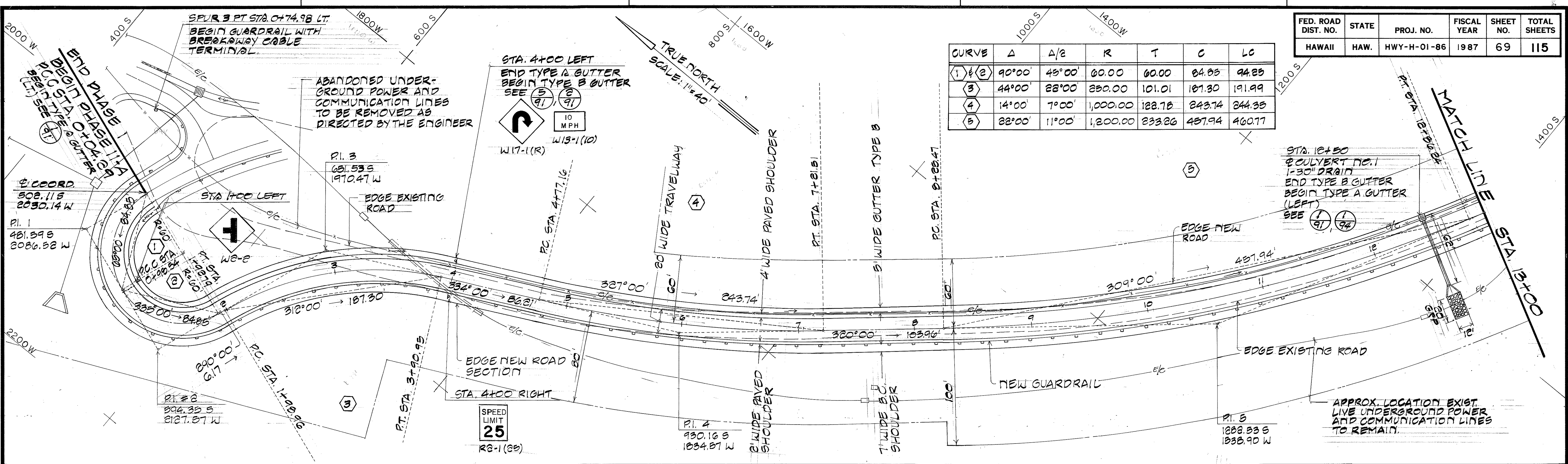


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-01-86	1987	69	115



ORIGINAL PLAN	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
NO.	

ROYCE S. FUKUNAGA
REGISTERED PROFESSIONAL ENGINEER
No. 2107-C
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ALIGNMENT PLAN
MAIN ACCESS ROAD**

STA. 0+04.29 TO STA. 25+15.86

MAUNA KEA OBSERVATORY ACCESS ROAD
PHASE II-A

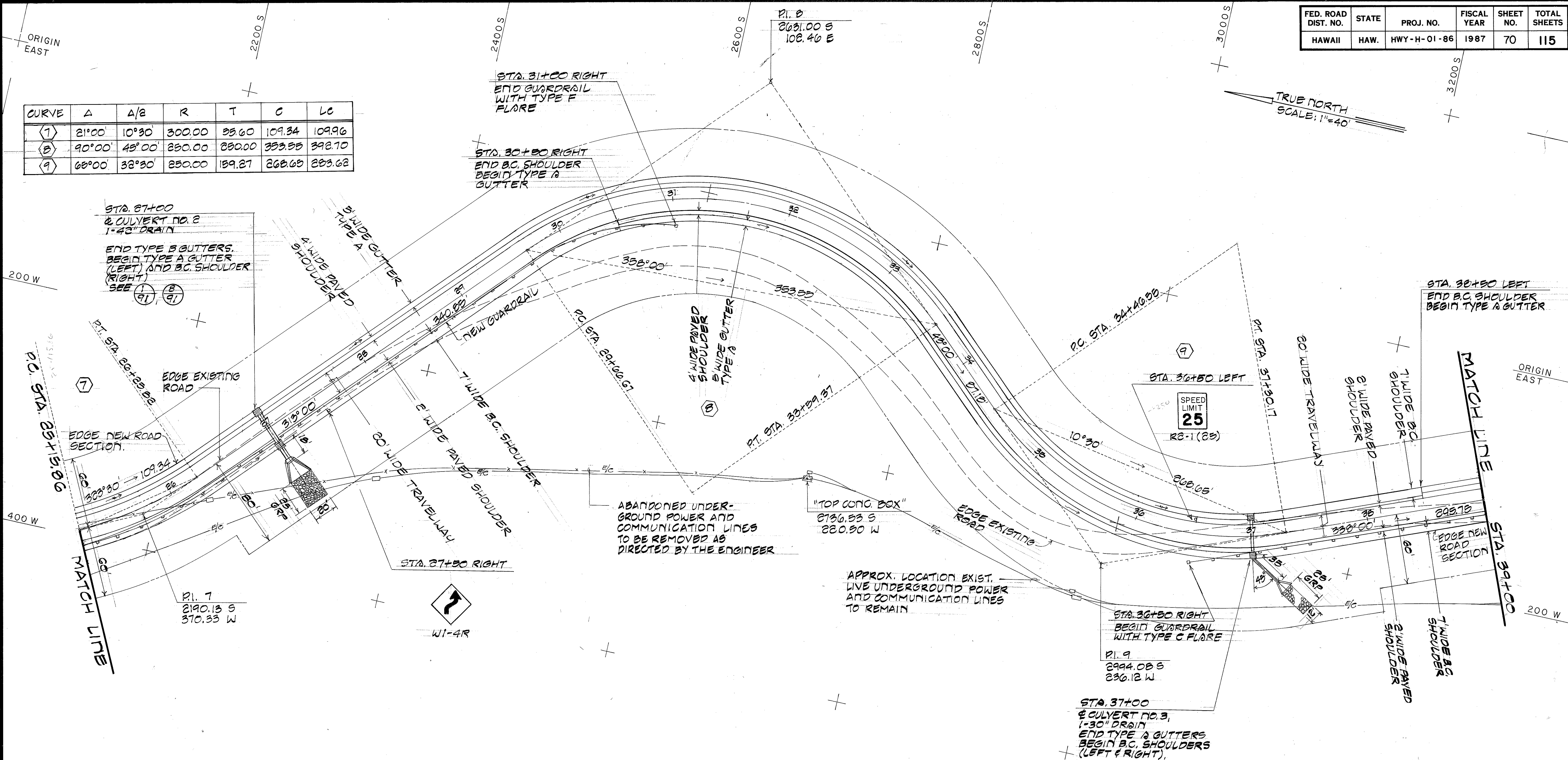
PROJECT NO. HWY.-H-01-86

SCALE: 1" = 40'

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Royce S. Fukunaga
FUKUNAGA & ASSOCIATES

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-01-86	1987	70	115

CURVE	A	A/2	R	T	C	LC
1	21°00'	10°30'	300.00	35.60	109.34	109.96
2	40°00'	45°00'	250.00	250.00	353.55	392.70
3	66°00'	33°30'	250.00	159.27	268.69	283.62



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

ROYCE S. FUKUNAGA
REGISTERED PROFESSIONAL ENGINEER
No. 2107-C
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ALIGNMENT PLAN
MAIN ACCESS ROAD**

STA. 25+15.86 TO STA. 39+00

MAUNA KEA OBSERVATORY ACCESS ROAD
PHASE II-A

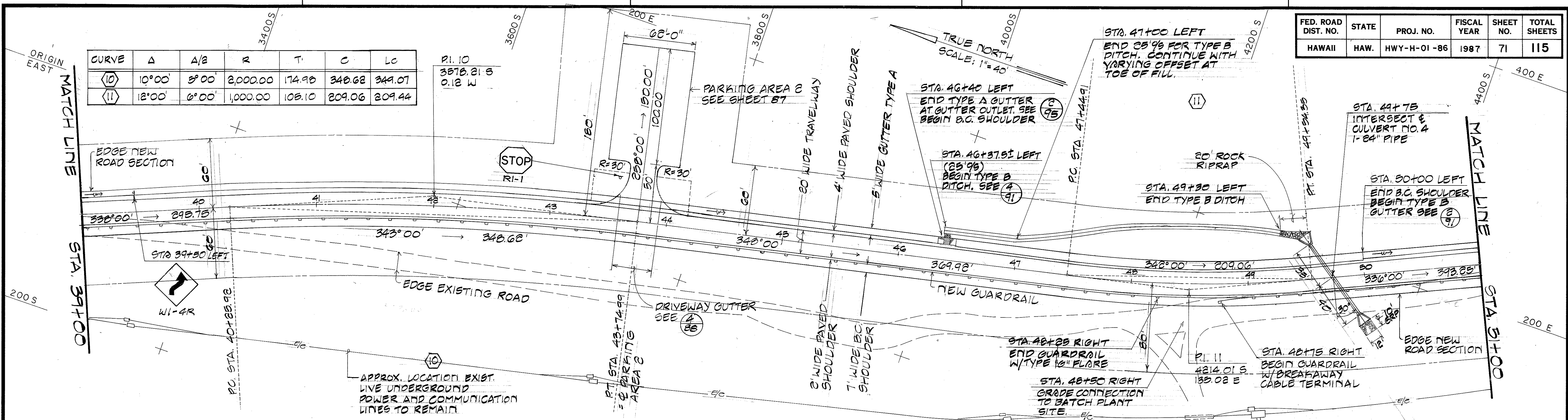
PROJECT NO. HWY.-H-01-86

SCALE: 1" = 40'

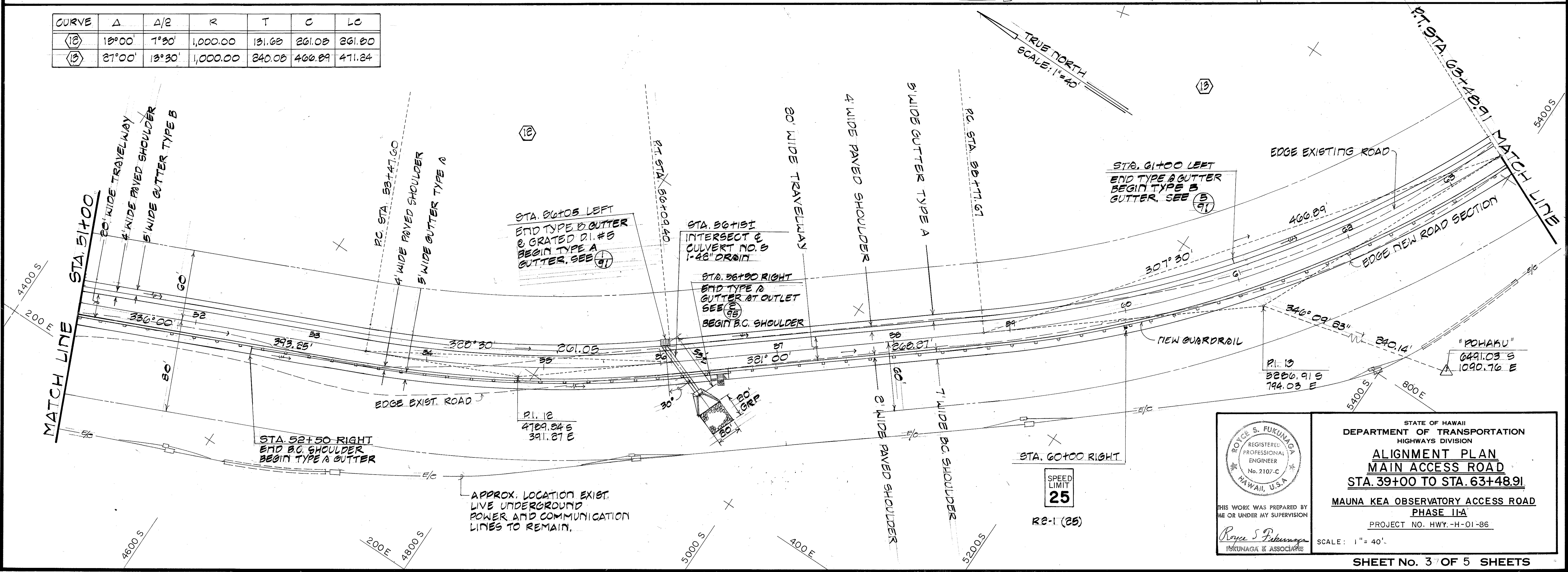
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Royce S. Fukunaga
FUKUNAGA & ASSOCIATES

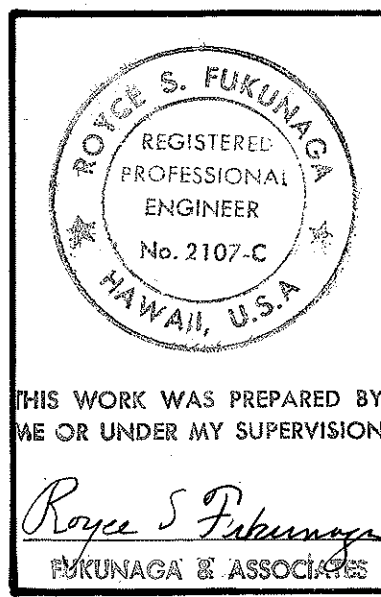
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-01-86	1987	71	115



CURVE	Δ	A/2	R	T	C	LC
(12)	18°00'	1°30'	1,000.00	131.65	261.03	261.80
(13)	27°00'	13°30'	1,000.00	240.08	466.89	471.24

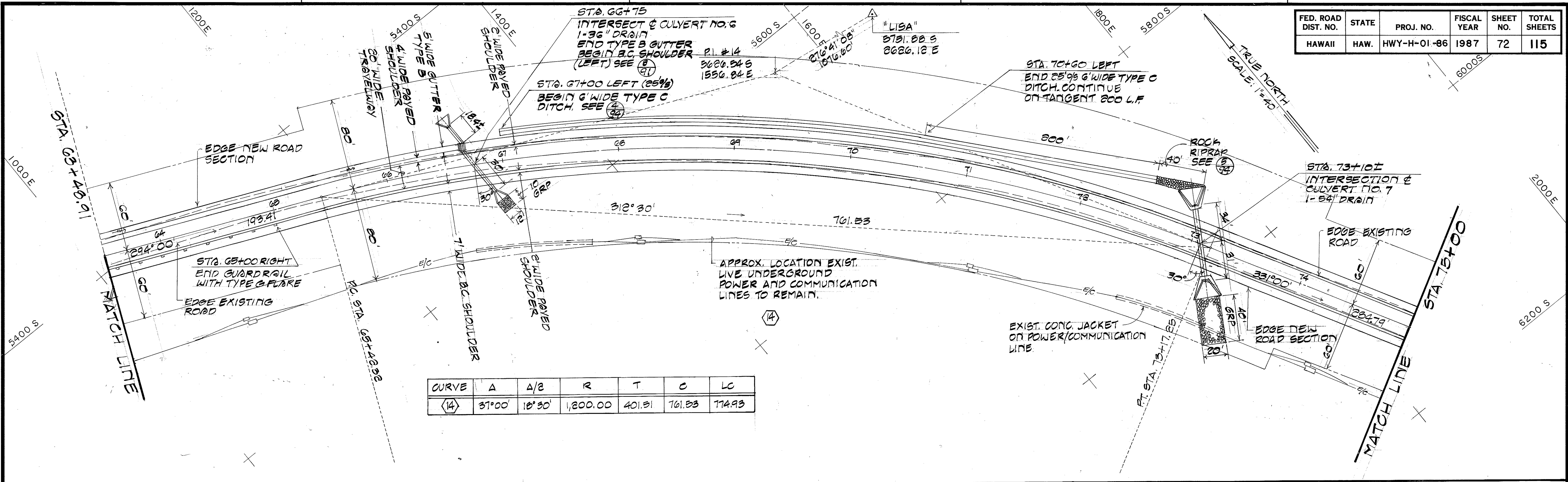


SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NO.	



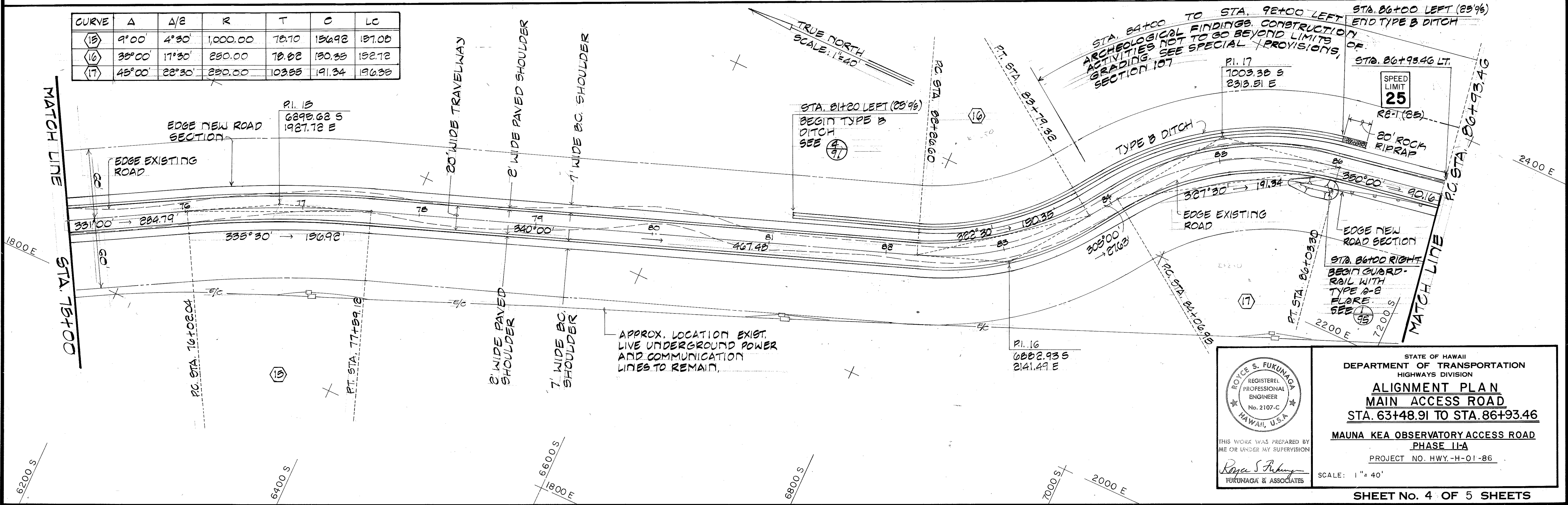
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ALIGNMENT PLAN
MAIN ACCESS ROAD
STA. 39+00 TO STA. 63+48.91
MAUNA KEA OBSERVATORY ACCESS ROAD
PHASE II-A
PROJECT NO. HWY.-H-01-86
SCALE: 1" = 40'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-01-86	1987	72	115

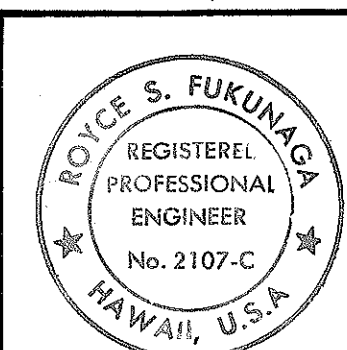


CURVE	A	A/2	R	T	C	LC
(14)	37°00'	18°30'	1,200.00	401.91	761.93	714.93

CURVE	A	A/2	R	T	C	LC
(15)	9°00'	4°30'	1,000.00	78.70	136.92	137.00
(16)	35°00'	17°30'	250.00	70.62	130.33	132.72
(17)	45°00'	22°30'	250.00	103.55	191.34	196.38



APPROX. LOCATION EXIST.
LIVE UNDERGROUND POWER
AND COMMUNICATION
LINES TO REMAIN.



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Royce S. Fukunaga
FUKUNAGA & ASSOCIATES

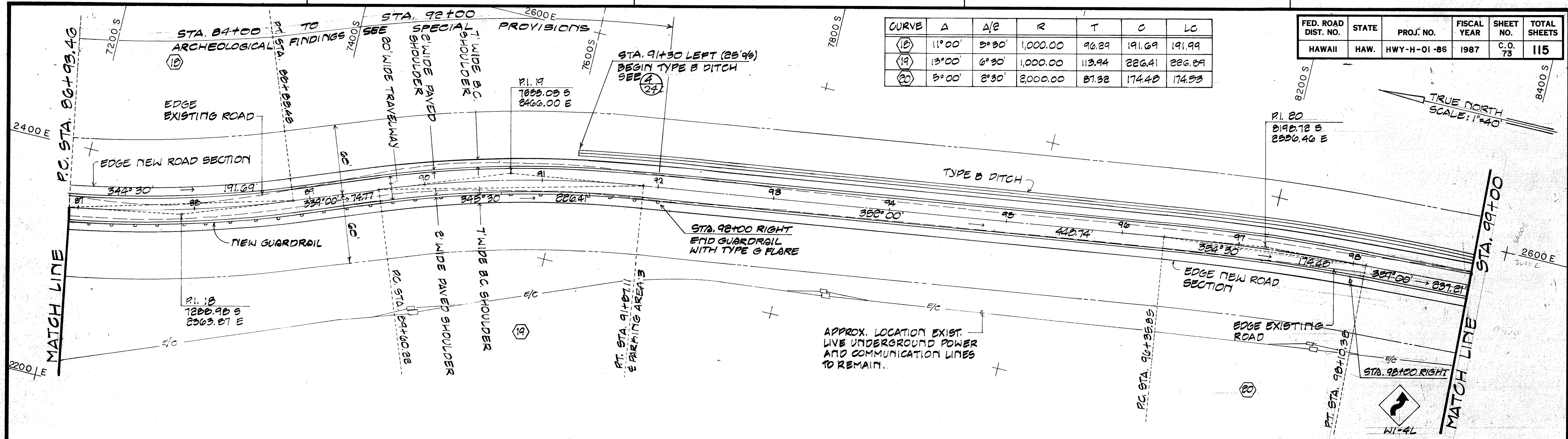
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**ALIGNMENT PLAN
MAIN ACCESS ROAD**
STA. 63+48.91 TO STA. 86+93.46
MAUNA KEA OBSERVATORY ACCESS ROAD
PHASE II-A
PROJECT NO. HWY.-H-01-86

SCALE: 1" = 40'

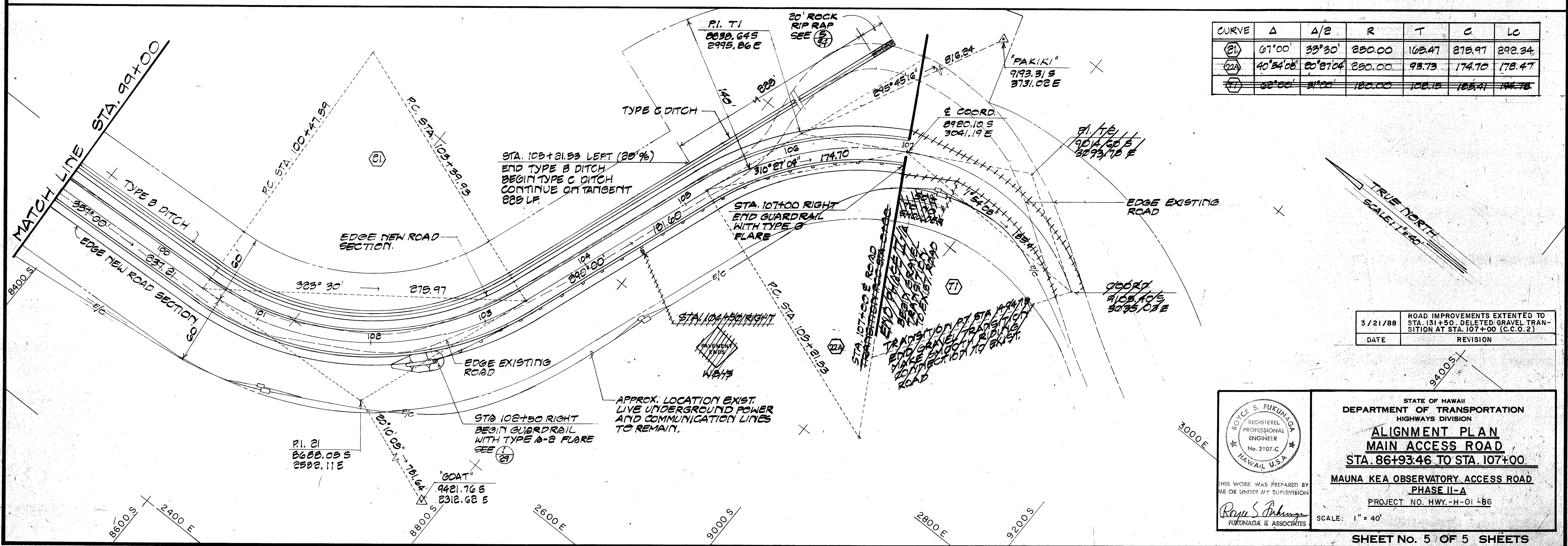
SHEET NO. 4 OF 5 SHEETS

CURVE	A	A/2	R	T	C	LC
(18)	11°00'	5°30'	1,000.00	96.89	191.69	191.99
(19)	13°00'	6°30'	1,000.00	113.94	226.41	226.89
(20)	5°00'	2°30'	2,000.00	87.32	174.40	174.93

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-01-86	1987	C.O. 73	115



CURVE	A	A/2	R	T	C	LC
(21)	61°00'	30°30'	250.00	105.47	275.97	292.34
(22)	40°54'08"	20°27'04"	250.00	93.73	174.70	175.47
(23)	62°00'	31°00'	100.00	105.15	155.41	144.75



3/21/88	ROAD IMPROVEMENTS EXTENDED TO STA. 131+50. DELETED GRAVEL TRANSITION AT STA. 107+00 (C.C. 2)
DATE	REVISION

ROYCE S. FUKUNAGA
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**ALIGNMENT PLAN
MAIN ACCESS ROAD**

STA. 86+93.46 TO STA. 107+00

**MAUNA KEA OBSERVATORY ACCESS ROAD
PHASE II-A**

PROJECT NO. HWY-H-01-86

SCALE: 1" = 40'

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NO.	