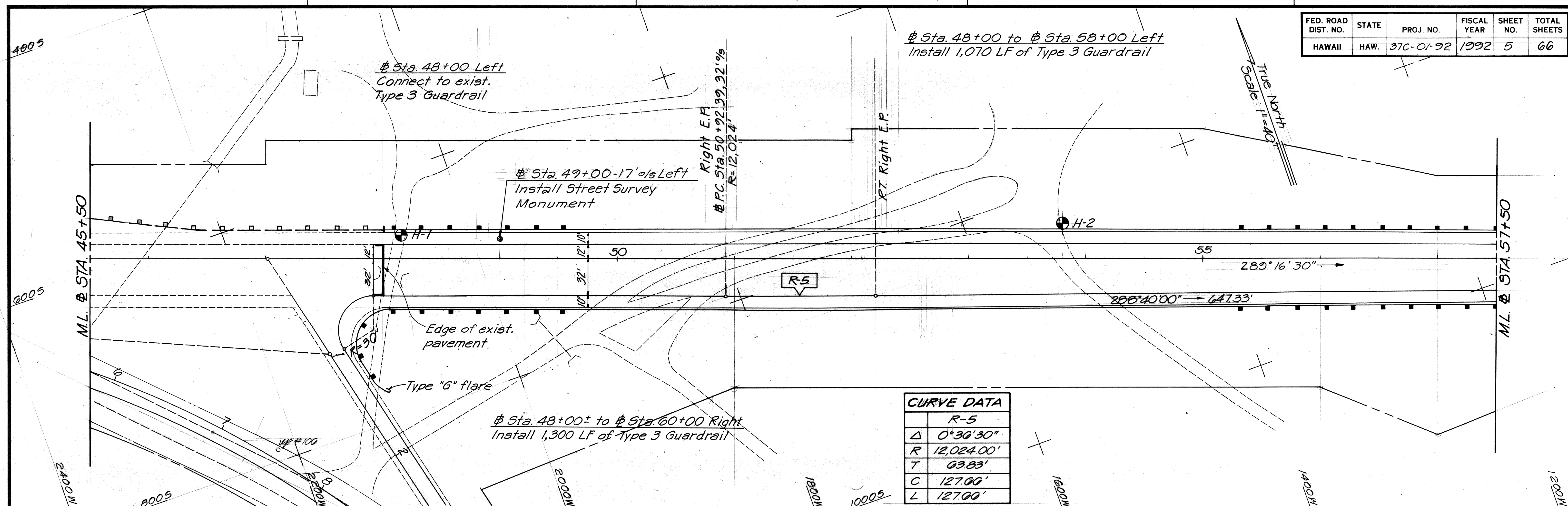
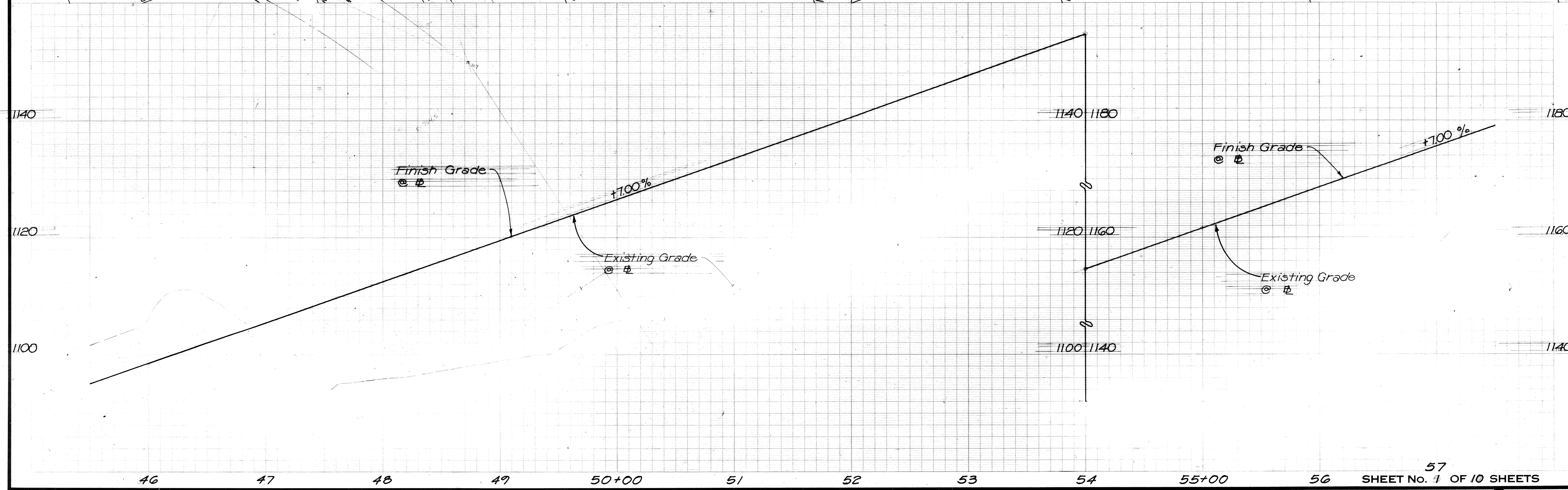


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-92	1992	5	66

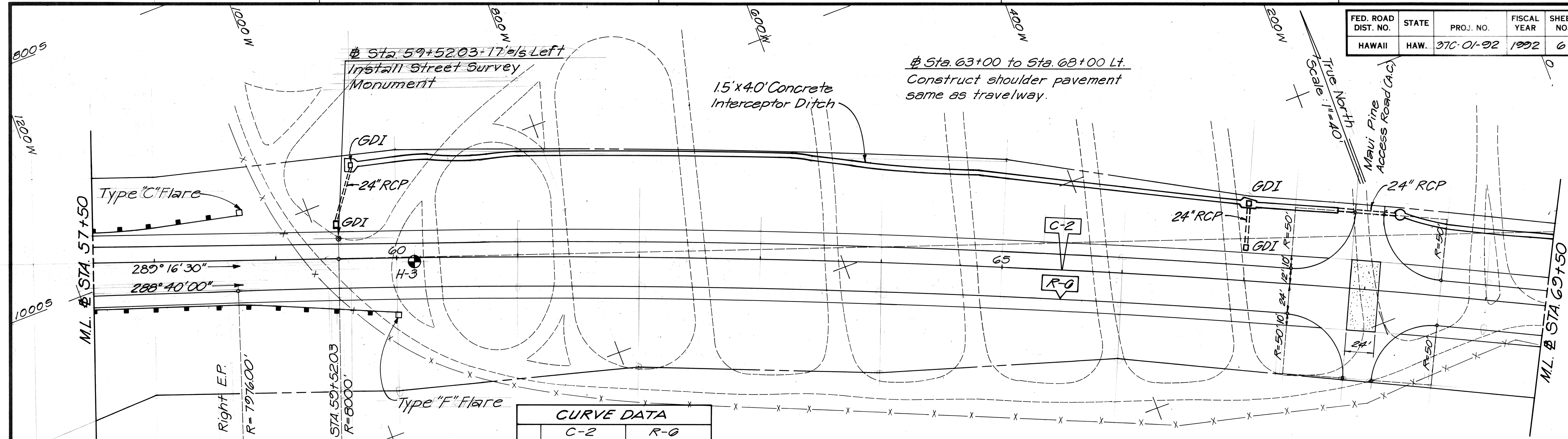


CURVE DATA	
R-5	
Δ	0°30'30"
R	12,024.00'
T	63.83'
C	127.00'
L	127.00'

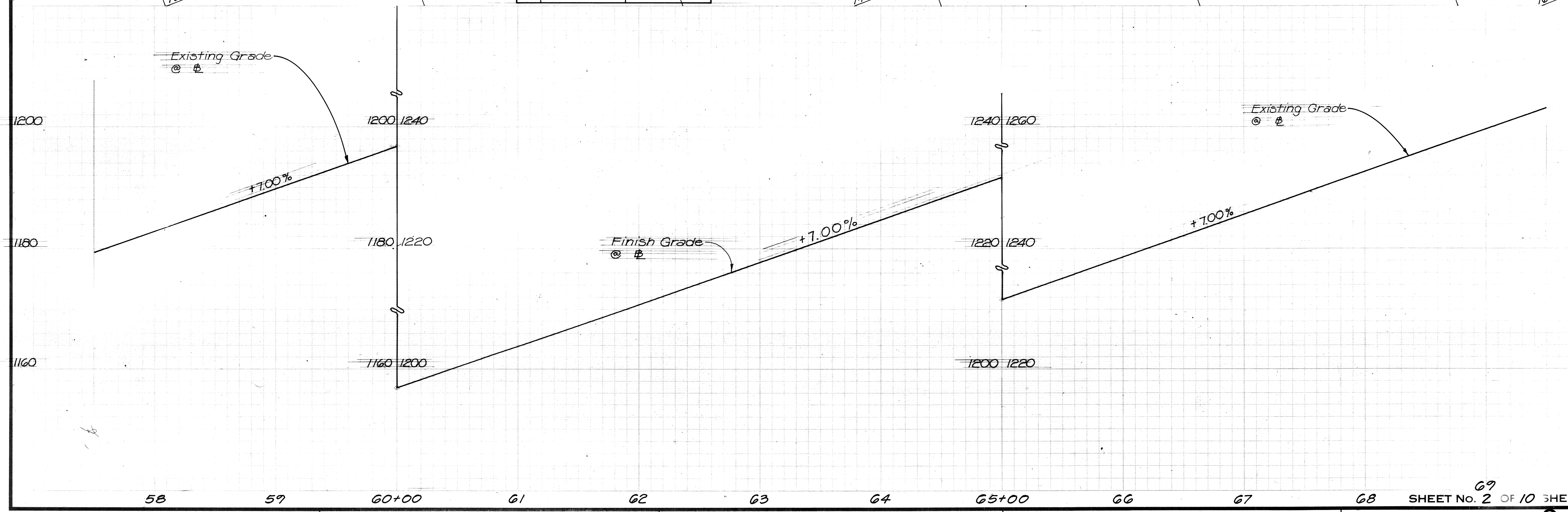


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-92	1992	6	66



CURVE DATA		
	C-2	R-0
Δ	17° 09' 00"	17° 45' 30"
R	8,000.00'	7,976.00'
T	1,206.32'	1,240.04'
C	2,385.00'	2,402.21'
L	2,394.59'	2,472.09'

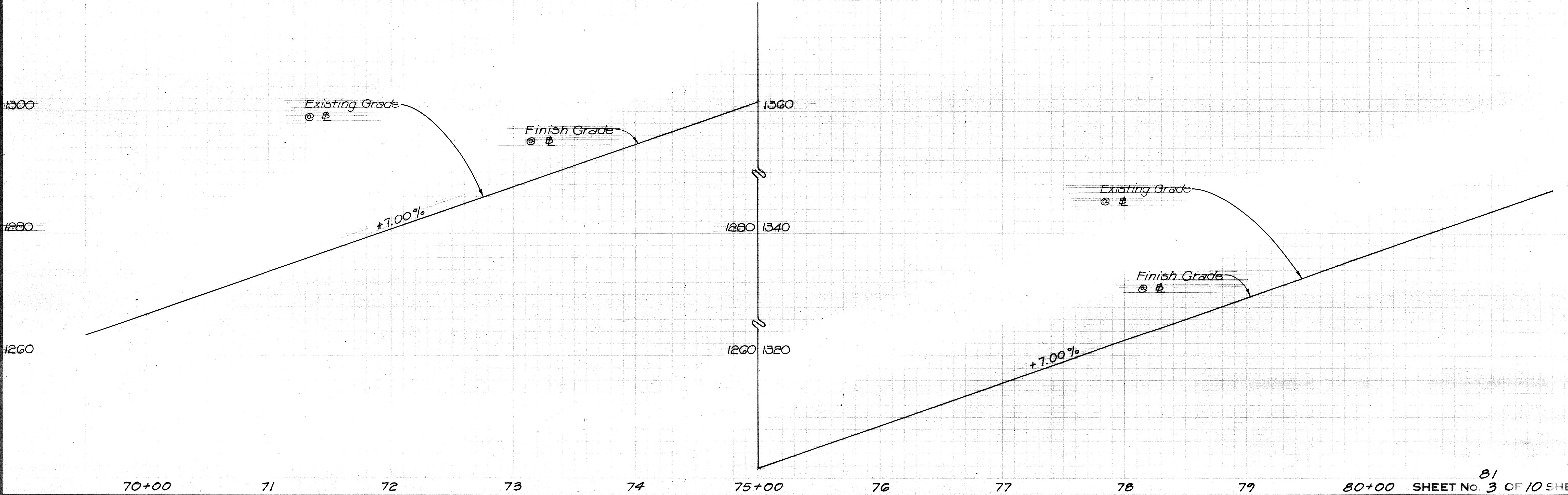
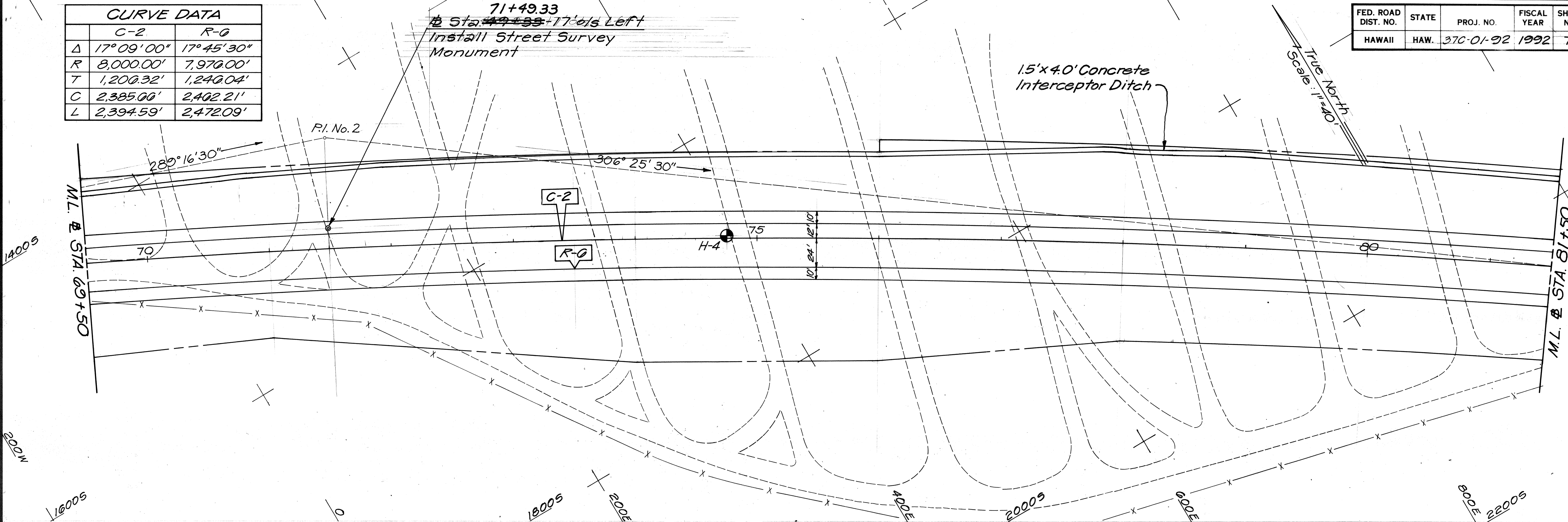


ORIGINAL PLAN	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-92	1992	7	66

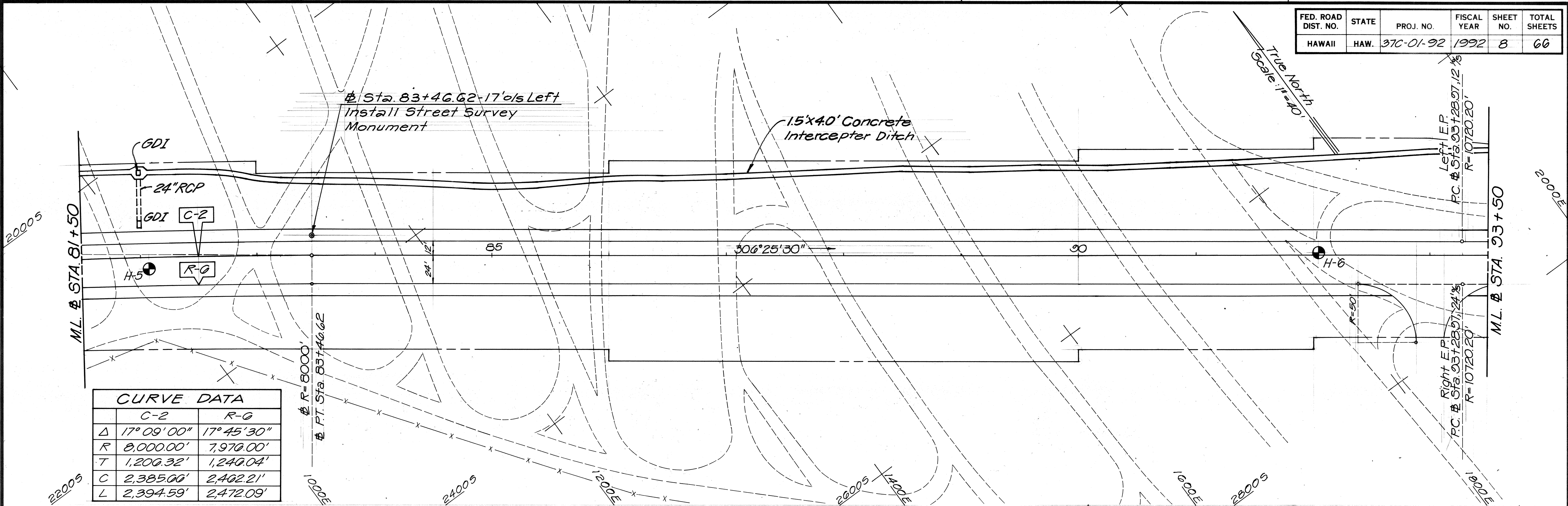
CURVE DATA		
	C-2	R-0
Δ	17° 09' 00"	17° 45' 30"
R	8,000.00'	7,970.00'
T	1,200.32'	1,240.04'
C	2,385.00'	2,402.21'
L	2,394.59'	2,472.09'

71+49.33
 @ Sta. 49+33+17.61s Left
 Install Street Survey Monument

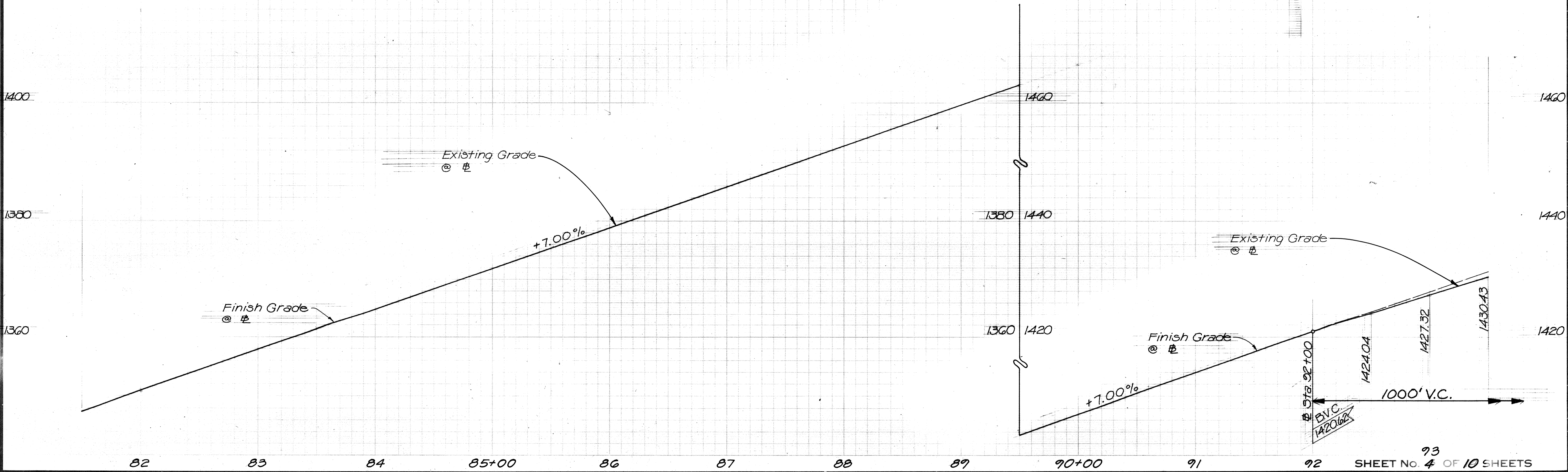


ORIGINAL PLAN	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-92	1992	8	60



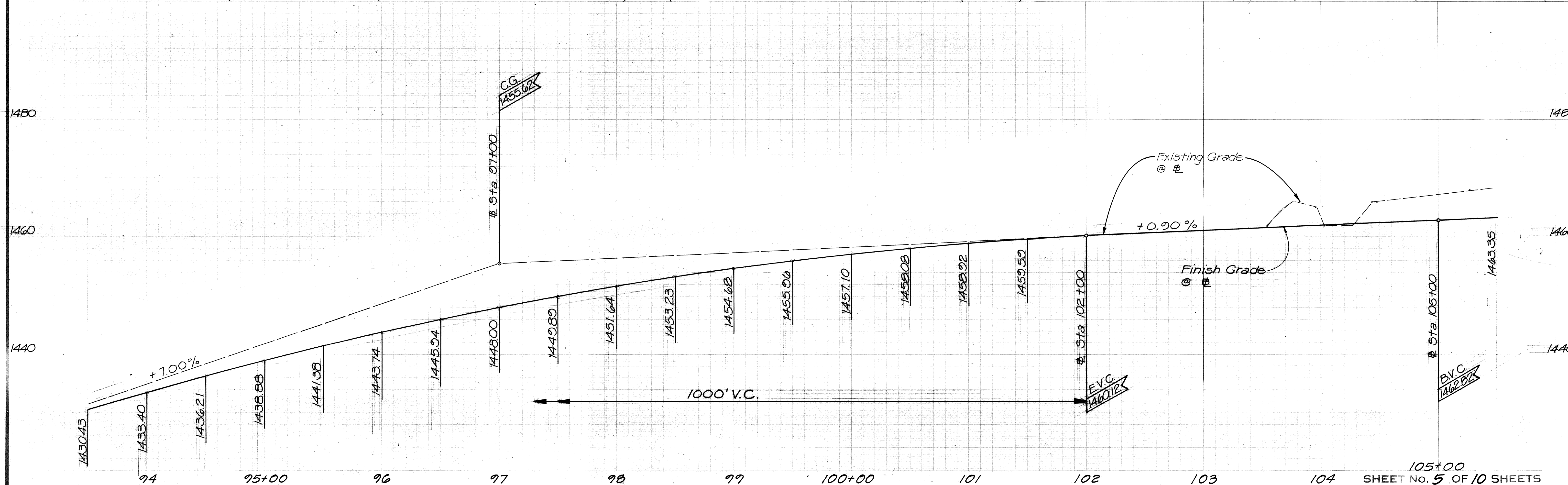
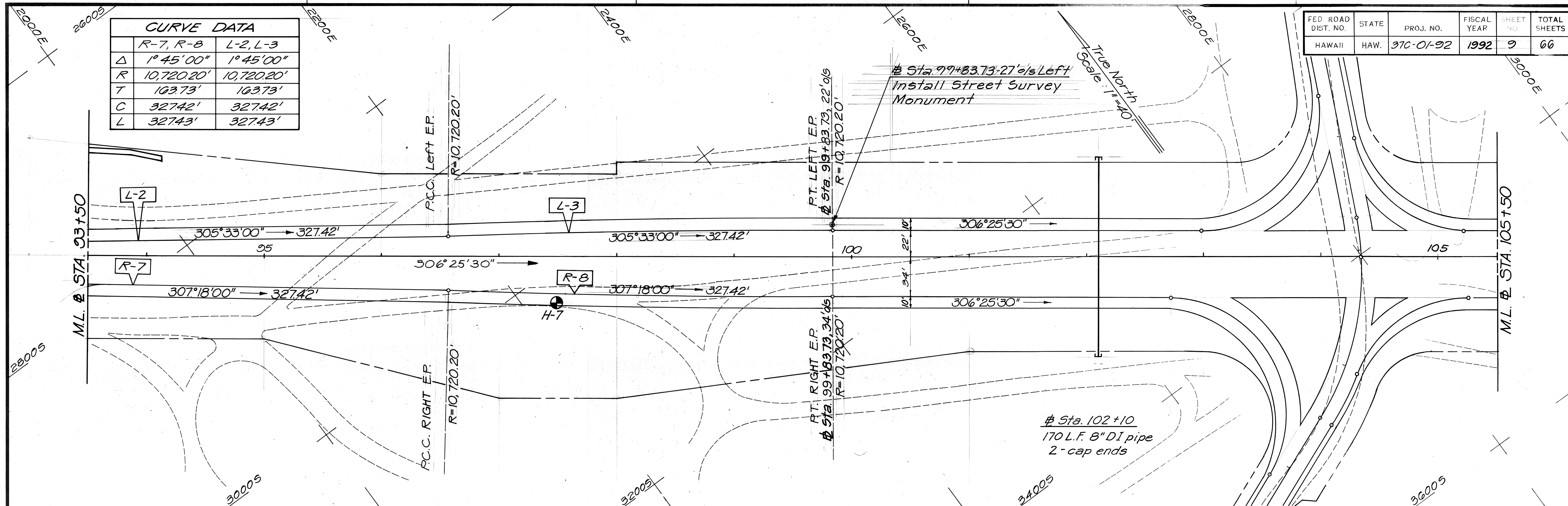
CURVE DATA		
	C-2	R-Q
Δ	17°09'00"	17°45'30"
R	8,000.00'	7,970.00'
T	1,200.32'	1,240.04'
C	2,385.00'	2,402.21'
L	2,394.59'	2,472.09'



ORIGINAL PLAN	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
NO.	

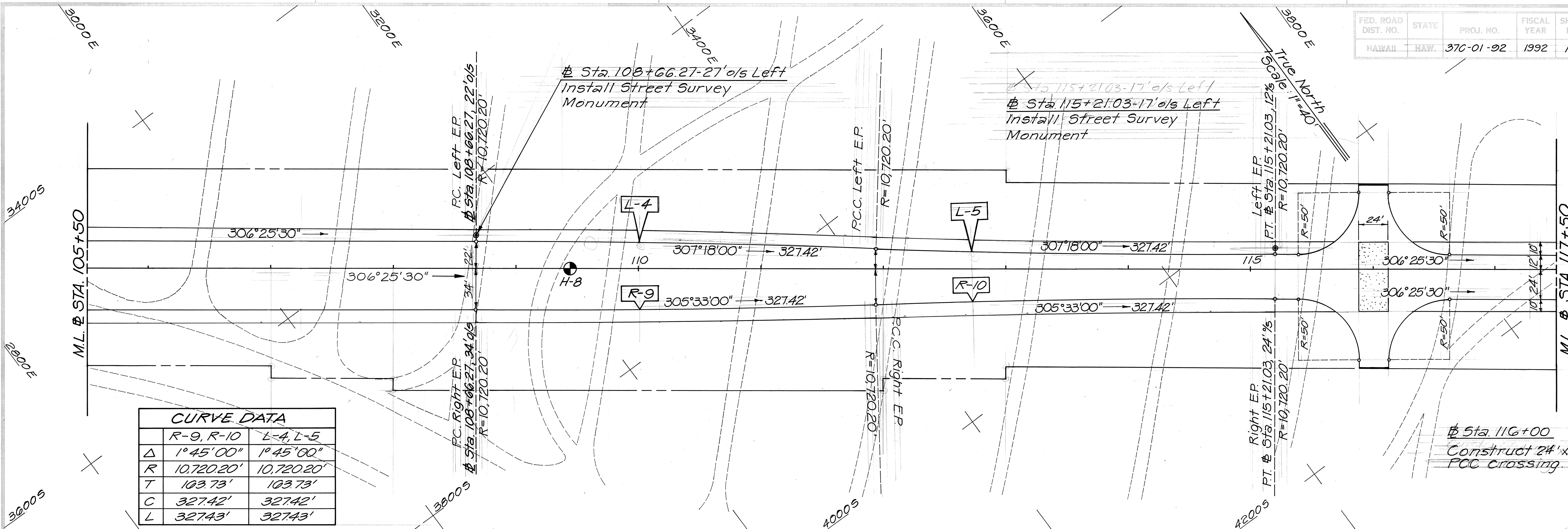
CURVE DATA			
	R-7, R-8	L-2, L-3	
Δ	1° 45' 00"	1° 45' 00"	
R	10,720.20'	10,720.20'	
T	103.73'	103.73'	
C	327.42'	327.42'	
L	327.43'	327.43'	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-92	1992	9	66

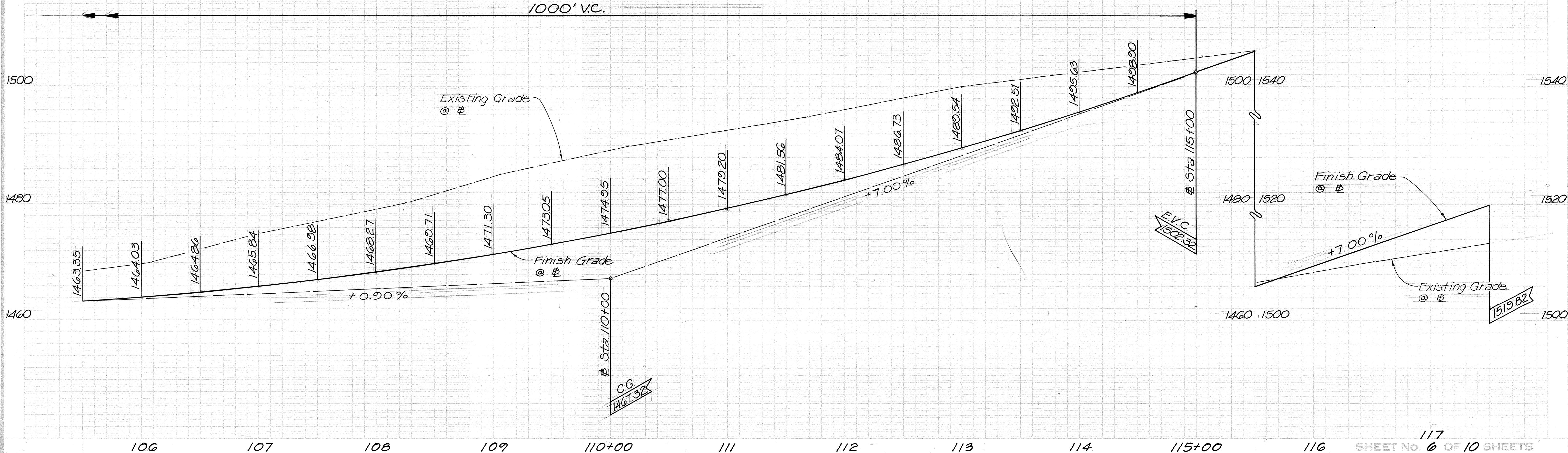


ORIGINAL PLAN	DATE
NOTED BY	
NOTED BY	
NOTED BY	
NOTED BY	
NOTED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	370-01-92	1992	10	66

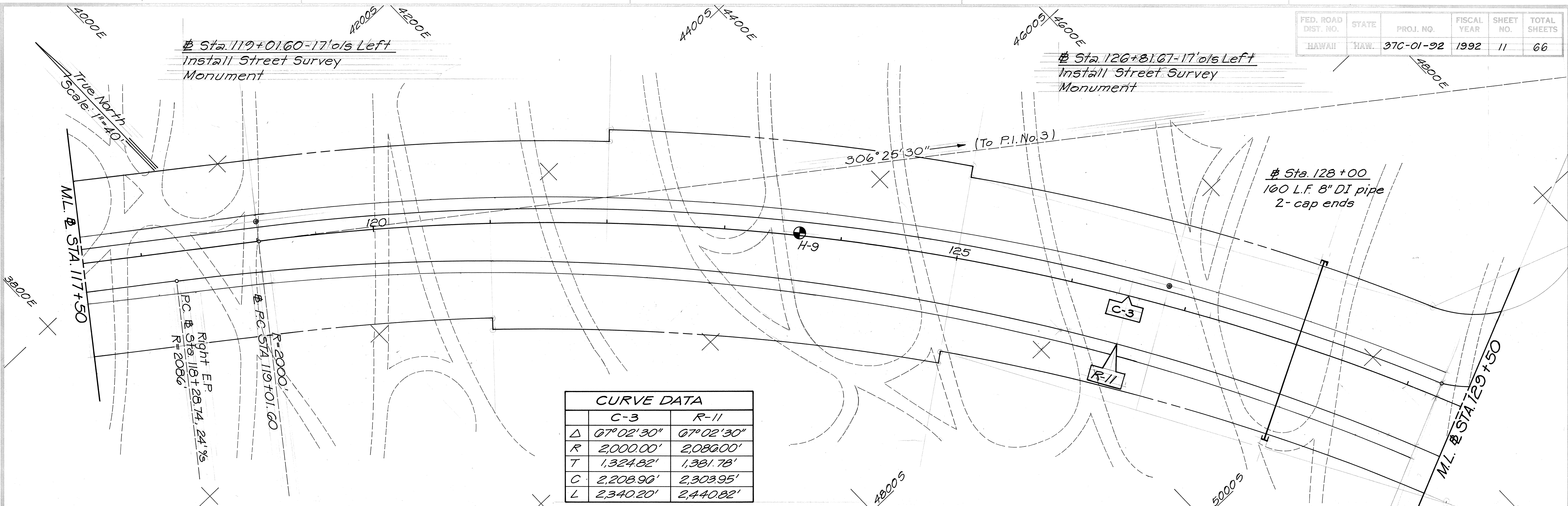


CURVE DATA		
	R-9, R-10	L-4, L-5
Δ	1°45'00"	1°45'00"
R	10,720.20'	10,720.20'
T	103.73'	103.73'
C	327.42'	327.42'
L	327.43'	327.43'

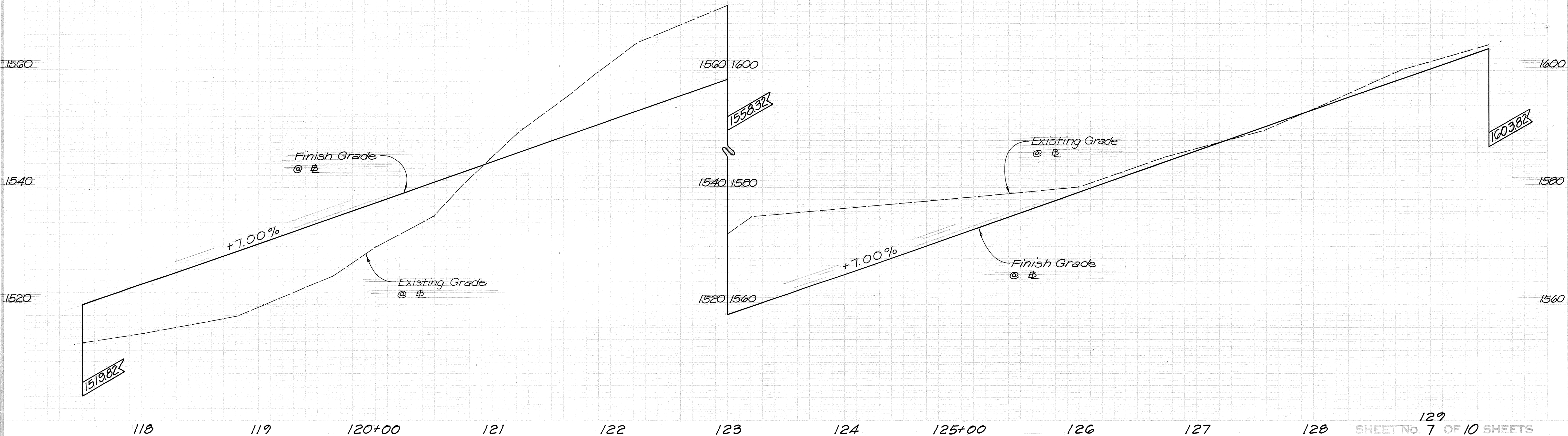


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-22	1992	11	66

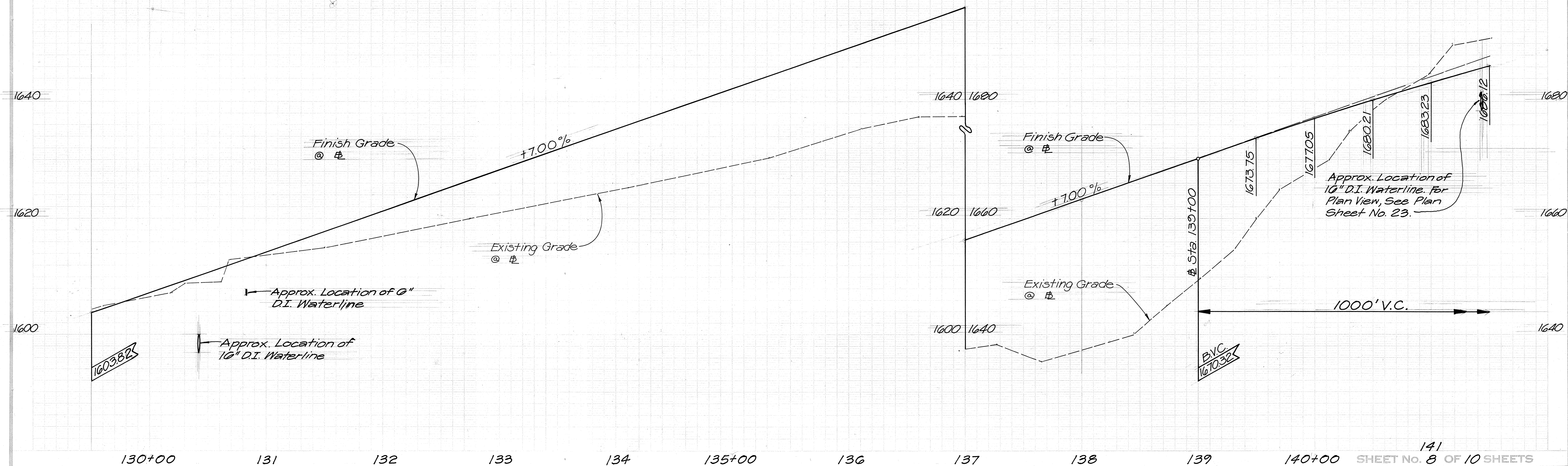
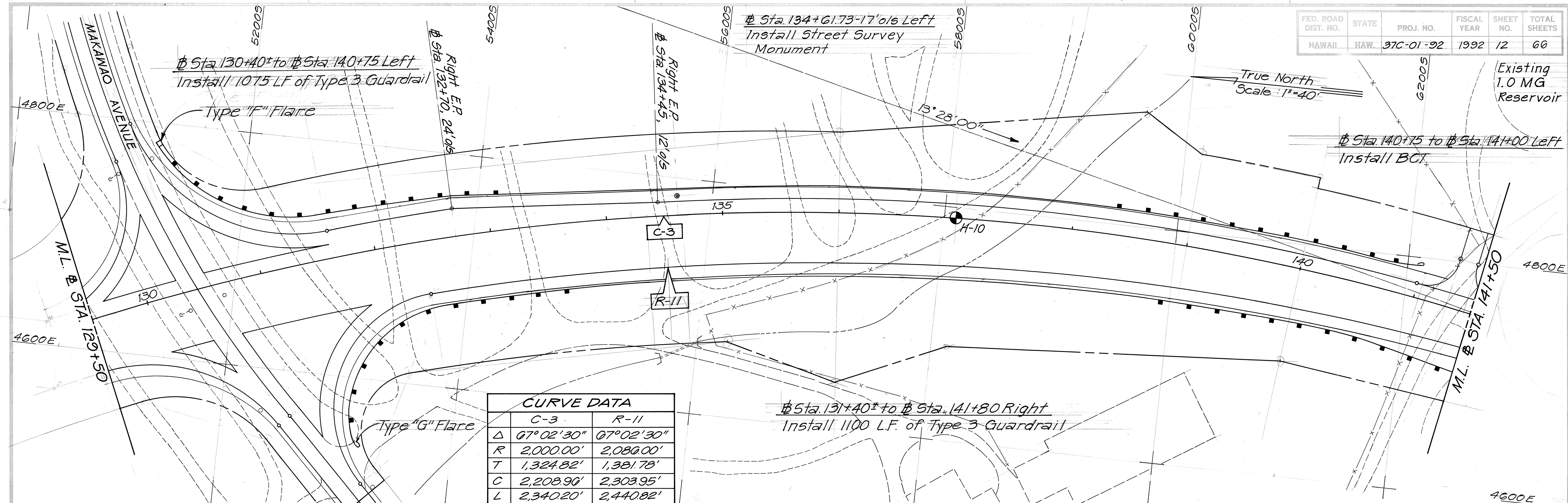


	C-3	R-11
Δ	67°02'30"	67°02'30"
R	2,000.00'	2,086.00'
T	1,324.82'	1,381.78'
C	2,208.90'	2,303.95'
L	2,340.20'	2,440.82'



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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-22	1992	12	66



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

Exist. 1.0 MG Reservoir

True North
Scale: 1"=40'

Sta. 143+00
160 L.F. 8" DI pipe
2-cap ends

Sta. 142+41.80-17' o/s Left
Install Street Survey Monument

Sta. 149+10.52-17' o/s Left
Install Street Survey Monument

Sta. 150+50
Construct 24' x 53'
PCC crossing

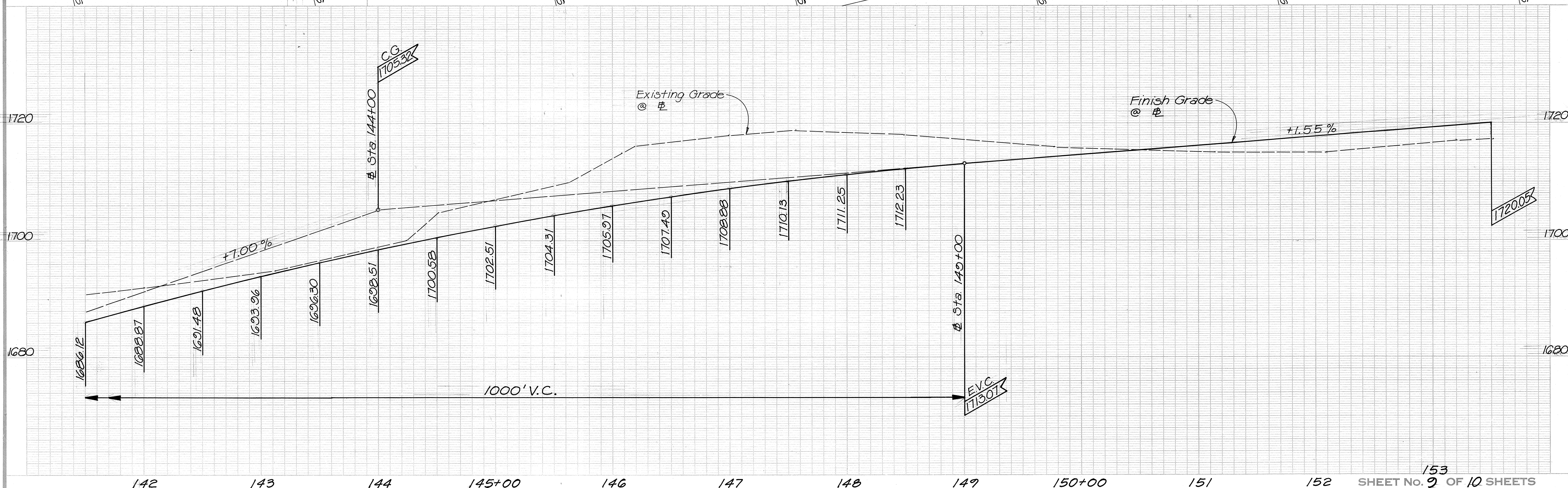
CURVE DATA			
	C-4	L-6	R-12
Δ	14° 48' 20"	14° 48' 20"	14° 48' 20"
R	4,500.00'	4,988.00'	3,512.00'
T	584.07'	648.07'	450.30'
C	1,159.59'	1,285.34'	905.00'
L	1,022.83'	1,288.93'	907.52'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-02	1992	13	66

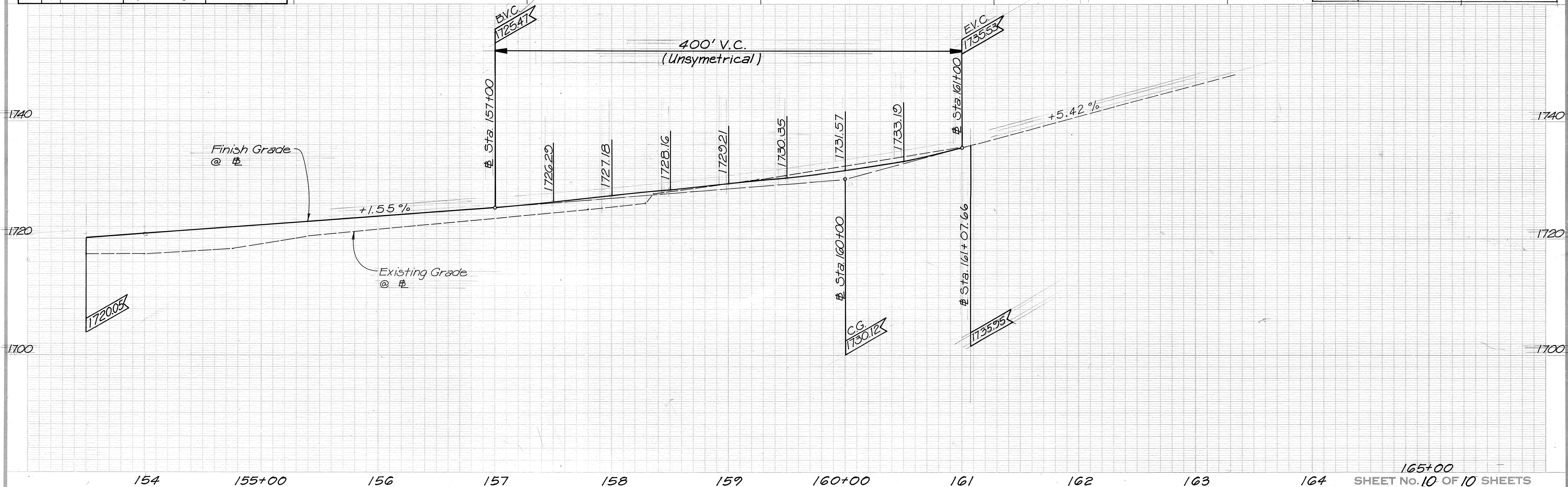
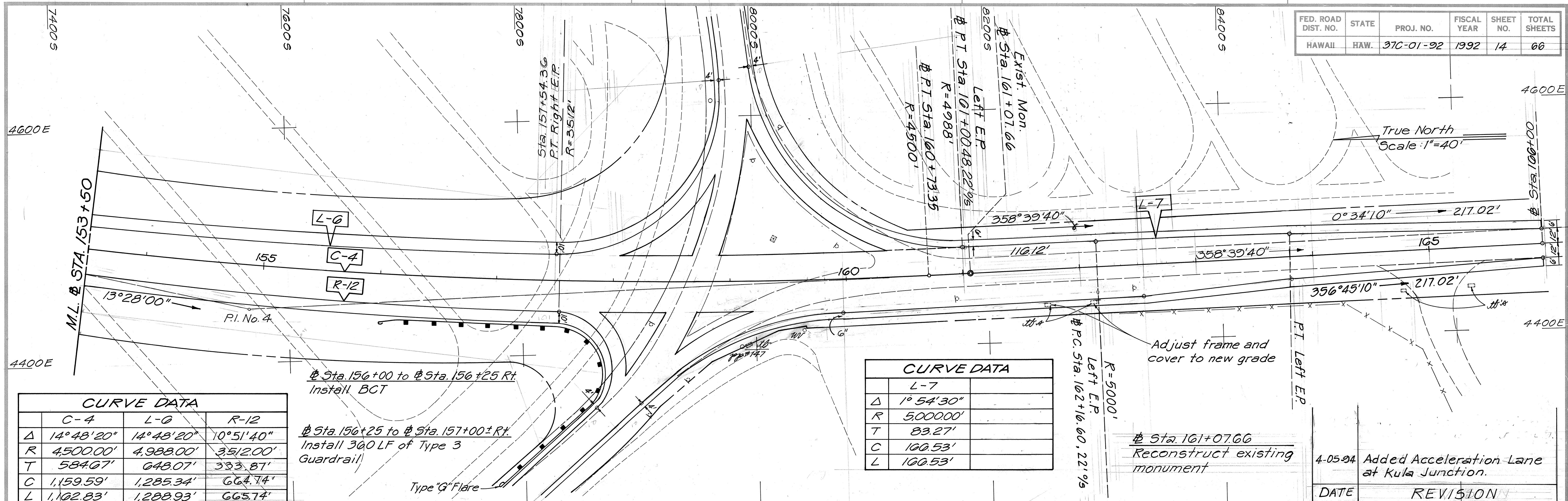
M.L. Sta. 141+50

M.L. Sta. 153+50

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



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-92	1992	14	66



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-92	1992	15	66

& CURVE DATA
 $\Delta = 42^\circ 57' 30''$
 $R = 235.00'$
 $T = 92.47'$
 $C = 172.10'$
 $Lc = 173.13'$

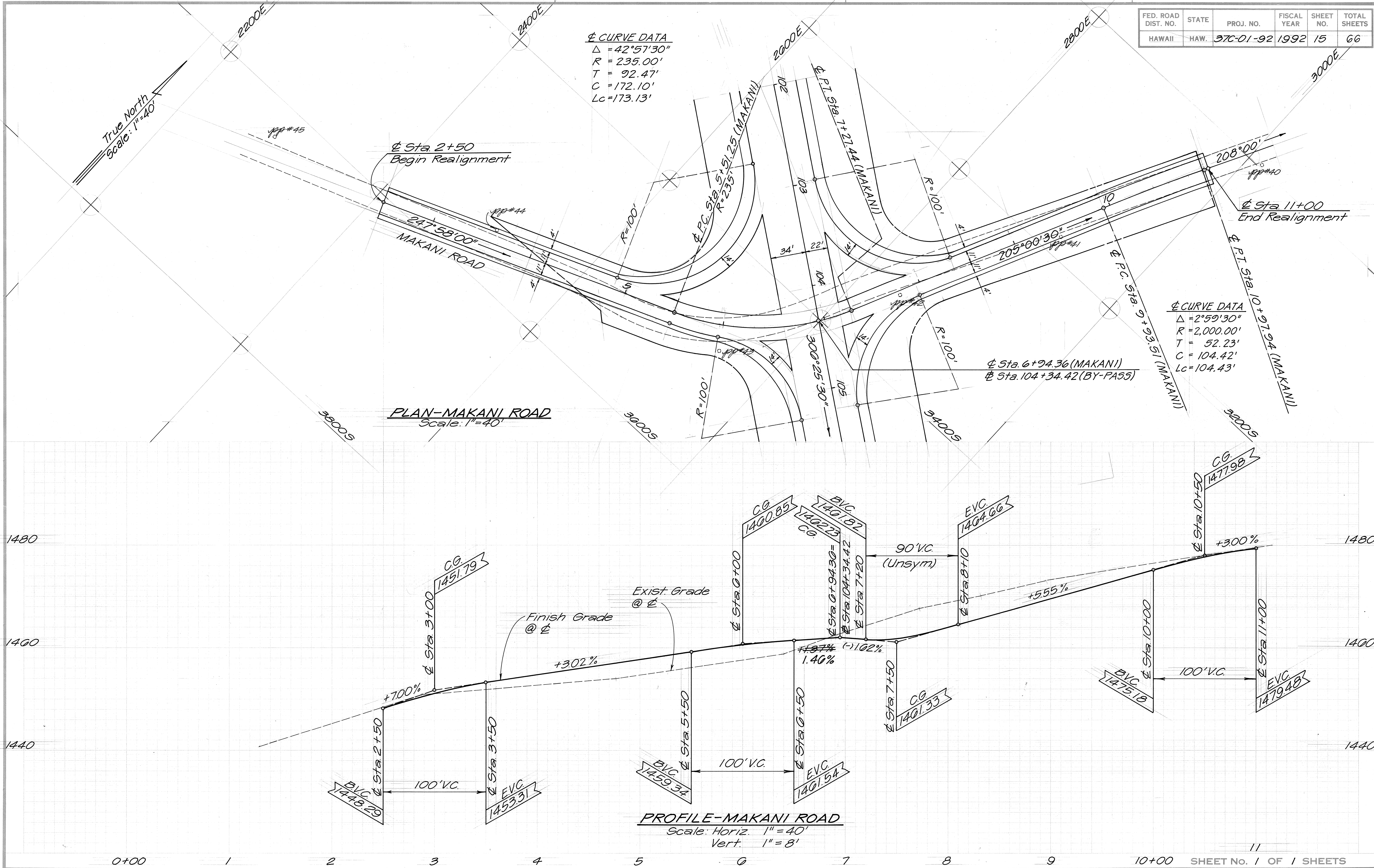
& CURVE DATA
 $\Delta = 2^\circ 59' 30''$
 $R = 2,000.00'$
 $T = 52.23'$
 $C = 104.42'$
 $Lc = 104.43'$

True North
 Scale: 1"=40'

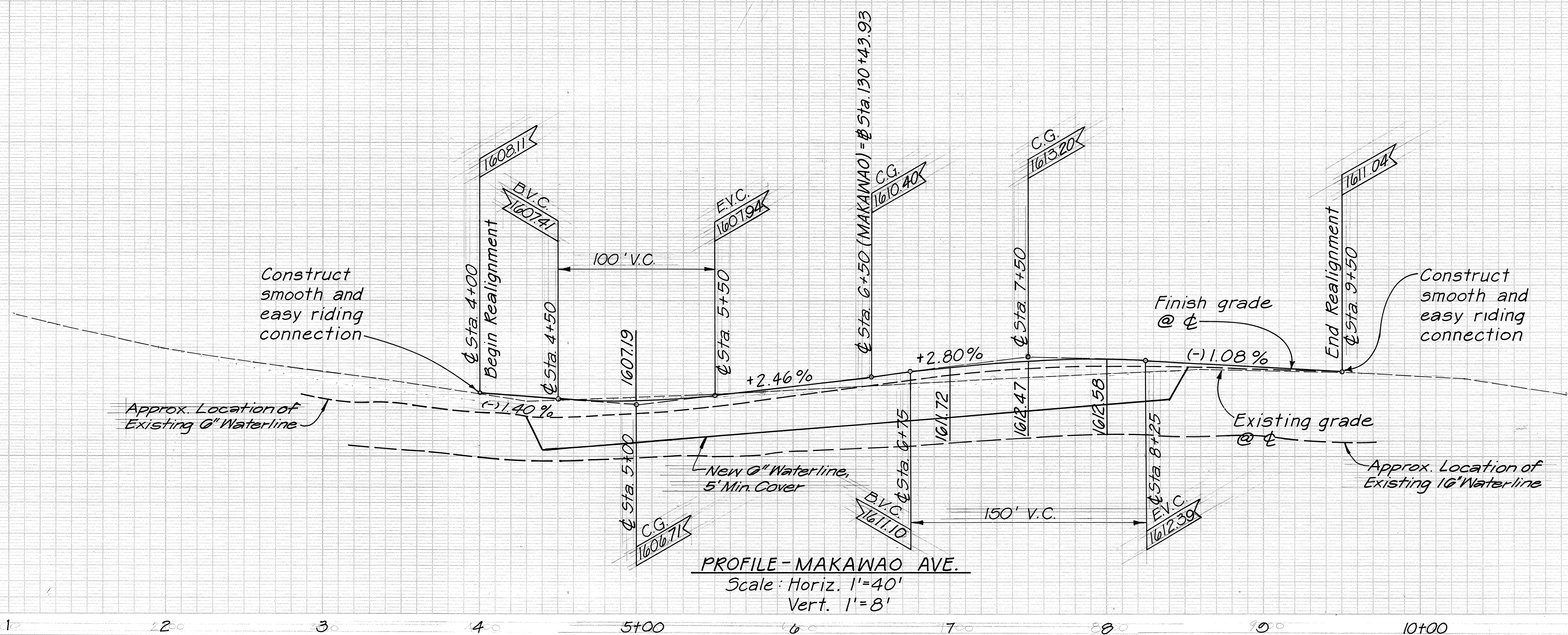
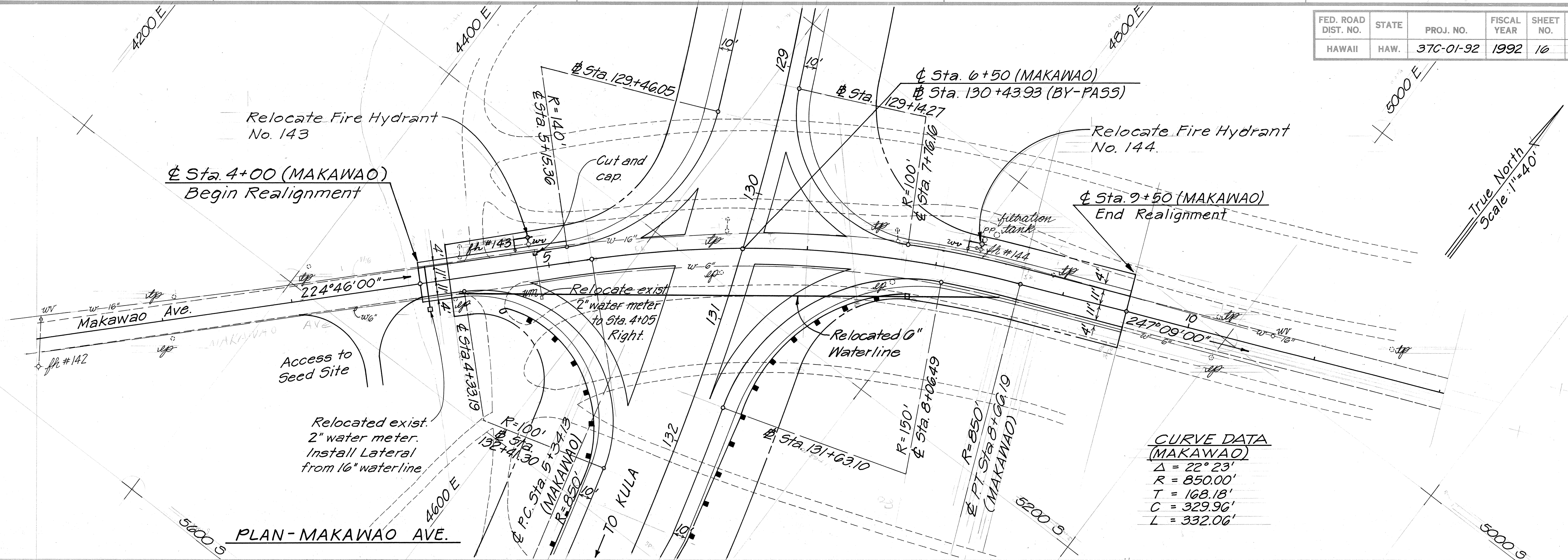
PLAN-MAKANI ROAD
 Scale: 1"=40'

PROFILE-MAKANI ROAD
 Scale: Horiz. 1"=40'
 Vert. 1"=8'

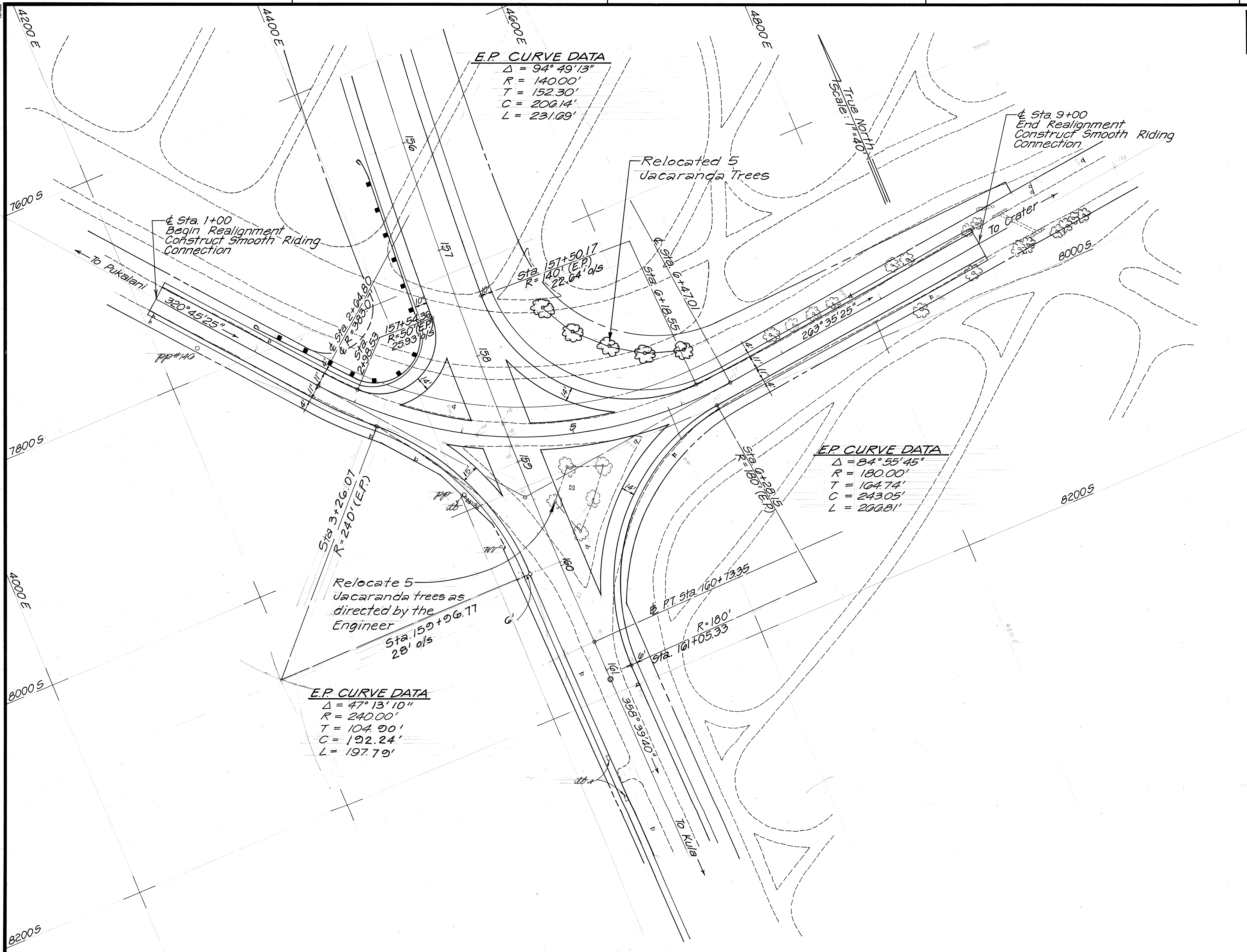
ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-92	1992	16	66



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-92	1992	17	66



4-05-94	Added Acceleration Lane at Kula Junction
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN - KULA JUNCTION
HALEAKALA HIGHWAY
PUKALANI SECTION - PHASE II
Hamakua Ditch to Kula Jct.
Project No. 37C-01-92

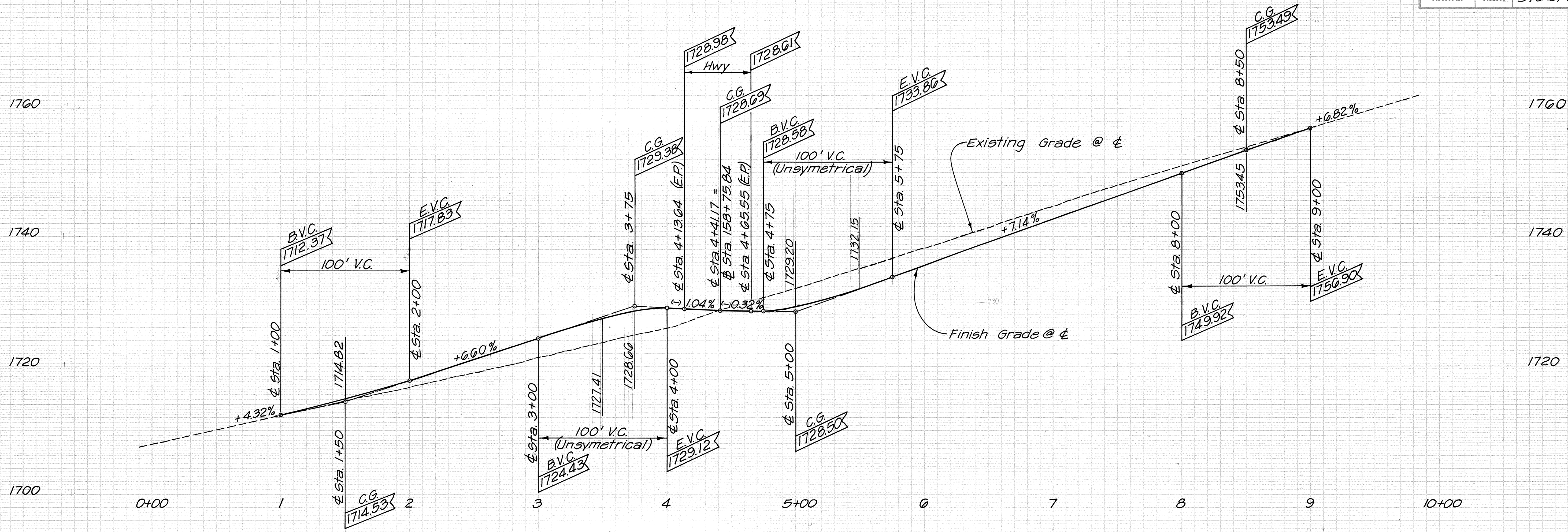
Scale: 1"=40'
Date: Aug., 1991

SHEET No. 1 OF 2 SHEETS

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

DD-C-4-5

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-92	1992	18	66



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE - KULA JUNCTION

HALEAKALA HIGHWAY
PUKALANI SECTION-PHASE II
Hamakua Ditch to Kula Jct.
Project No. 37C-01-92

Scale: As Shown Date: Aug., 1991
SHEET NO. 2 OF 2 SHEETS