

GENERAL NOTES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(46)8	1973	9	104

1. Azimuths and Coordinates are referred to the Hawaiian Plane Coordinate Grid System Zone III. (Central Meridian 158°00'00").
2. Bench Marks are referred to the Mean Sea Level Datum.
For locations, refer to Plan Sheet No. ~~67~~²³⁸.
3. Grade Controls for finished roadway surfaces:
a) Grade Control located at H-2 ~~to~~ from Sta. 430+00 to 440+00.
Grade Control located at Outb. ~~to~~ from Sta. 440+00 to 457+65.53.
Grade Control located at Inb. ~~to~~ from Sta. 440+00 to 457+~~76.47~~^{77.53}.
b) Other roadway areas, see the respective typical sections.
4. Ramp H2-I:
a) Horizontal control terminates at Sta. 528+~~46.00~~^{51.05}, equals to H-2 ~~to~~ P.C. Sta. 431+71.61.
b) Profile control terminates at Sta. 517+60.33.
5. Existing Asphalt Concrete Pavement not incorporated in the final plans shall be scarified and removed, unless otherwise noted, and this cost shall be considered incidental to the various contract items of work.
6. Metal Guard Rails:
a) All Metal Guard Rails will be Type 3 - Single with Steel Post. For details, refer to Plan Sheet Nos. 58 thru 64.
b) The Metal Guard Rails, Type 3 - Single with Steel Post, on the northwest side of Structure Nos. 13, 14, 15, and 16, may be placed outside of the bituminous gutters with the Engineer's approval. For details, see Plan Sheet No. 6.
7. Guard Rail, Type 4A:
The 80 ft. transition length, from Inbound Sta. 449+70 to 450+50, shall be paid under Item No. 606.410, Guard Rail, Type 4A. For details, see Plan Sheet No. 65.
8. Headlight Glare Screens:
a) Glare Screens shall be placed on the median barriers. For details, see Plan Sheet No. 66.
b) For additional requirements, see Section 643 of the Special Provisions.
9. Centerline and Reference Survey Monuments:
For locations and details of Monuments, see Plan Sheet No. ~~67~~²³⁸.
10. Bituminous Gutter:
a) The aggregate base, prime coat, and non-emergent weed killer, required for the gutter shall be incidental to the bituminous gutter.
b) Asphalt Concrete Mix V shall conform to the requirements of Section 609, Curb and/or Gutter of the Special Provisions.
11. Filter Material:
a) Filter Material shall be placed in 2 ft. wide trenches every 50 ft. station intervals in fill sections only. See Cross Sections for fill locations. (Roadway)
Filter Material shall be paid under Item No. 206.80.
b) Filter Material for 6-inch Underdrain Pipe shall be placed as designated on Plan Sheet No. 11. The Engineer will furnish the length of pipe required and the Contractor is responsible for installation. Filter Material for this work shall be paid for under Item No. 206.83.

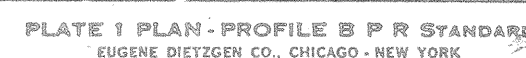
12. Fencing for Control of Access:
a) 6 ft. high Chain Link Fence shall be utilized on the southeast side of the Panakauahi Stream. Payment shall be by linear foot under Item No. 607.0101. For details, see Plan Sheet No. 71.
b) 4.5 ft. high Standard Wire Fence shall be utilized on the northwest side of the Panakauahi Stream. Payment shall be by linear foot under Item No. 607.531. For details, see Plan Sheet No. 72.
13. Appropriate Cushion Barrier shall be installed at the approach abutments of Structure Nos. 15 and 16. For details showing the foundation limits, (constructed by others), see Plan Sheet Nos. 75 thru 77.
14. The two (2) Project Information Signs are to be installed at the locations shown on Plan Sheet No. 2, and as directed by the Engineer. For details, see Plan Sheet No. 74.
15. The two (2) Construction Identification Signs are to be installed at the locations shown on Plan Sheet No. 2, and as directed by the Engineer. For additional requirements, the Contractor shall refer to Section 635 of the Special Provisions. For details, see Plan Sheet No. 73.
16. Upon the Award of Contract two (2) sets of pavement grades will be furnished by the Engineer. Right-of-way plans may be requested by the Contractor through the Engineer. Request for other information should be through the Engineer.
17. The Contractor shall consider the roadway grading work on the south-east side of Structures Nos. 13, 14, 15, and 16 as the first order work. For additional information, the Contractor shall refer to Section 105.19 of the Special Provisions.
18. All references to plan sheet nos. are to the project sheet no. located on the upper right of the plan sheet. The number on the outside of the border line on lower right of the plan sheet is the composite sheet no.
19. Item Nos. 620.01 and 620.02 of the Proposal have Force Account allowances of \$15,000.00 and \$5,000.00 respectively to cover any special detour work requested in writing by the Engineer. For additional requirements, the Contractor shall refer to Subsection 104.04(A) Special Detours of the Special Provisions.
20. For further details and requirements, the Contractor shall refer to the Standard Specifications for Road and Bridge Construction (1969), and to the Special Provisions.
21. For location of the existing Project Field Office refer to Plan Sht. No. 2. For location of Project Site Laboratory refer to Plan Sht. No. 28 of I-H2-1(12):0. For additional requirements the Contractor shall refer to Section 636 of the Special Provisions.
22. For location of 6-inch Underdrain Pipe refer to Plan Sht. No. 11. For additional requirements and details, the Contractor shall refer to Plan Sht. No. 33 and Section 605 of the Special Provisions.

STATE OF HAWAII	
DEPARTMENT OF TRANSPORTATION	
HIGHWAYS DIVISION	
PLAN & PROFILE - GENERAL NOTES	
INTERSTATE ROUTE H-1	
WAI'AWA INTERCHANGE	
F.A.I. Proj. No. I-HI-1(46):8	
(PAVING OF H-2 CONNECTION)	
Scale: As shown	
SHEET No.	OF SHEETS

PLAN		BY	DATE
SURVEYED			
PLOTTED			
ALIGNMENT CHECKED			
RT. OF WAY CHECKED			
NO.			

\$ Sta. 430+00 Rt. to
430+50 ± Rt.
Construct: Type 7(61218) Gutter
ESTIMATED QUANTITIES
Type 7(61218) Gutter = 50 L.F.

NO.	PROFILE	BY	DATE
	SURVEYED		
	PLOTTED		
	NOTE BOOK		
	GRADES CHECKED		
	B.M.s. NOTED		
	STRUCTURE NOTATIONS CHECKED		



H2 O.B. @ Sta. 442+00 Lt. to 457+65 Lt.
Construct: Type 7(G1218) Gutter
ESTIMATED QUANTITIES
Type 7(G1218) Gutter = 1565 L.F.

H2 I.B. to H1 I.B.
O.B. @ Sta. 444+50 to 457+65 Lt.
Construct: Type G1G14 C.D.I.
Outlet "C" (For Details see Sht No. 1)
Install: 32 L.F. 24" CMB Sht. "A" + 0.079 cu.
24" RCP C.I. III or 24" ACP C.I. III
ESTIMATED QUANTITIES
Struct. Exc. = 41 CY
Cl. A Conc. = 5 CY
Reinf. Steel = 172 Lbs
Type G1G14 Fr. Gate = 1 Ea.
24" Culvert = 32 L.F.

H2 O.B. @ Sta. 455+80 Rt. to 457+50 Rt.
Construct: Type 7(G1218) Gutter
ESTIMATED QUANTITIES
Type 7(G1218) Gutter = 170 L.F.

H2 O.B. @ Sta. 449+00 Rt. to Ramp H2-O @ Sta. 506+00 Lt.
Construct: Type 7(G1218) Gutter
ESTIMATED QUANTITIES
Type 7(G1218) Gutter = 850 L.F.

CURVE #2 DATA
 $\Delta = 9^{\circ}00'00''$
 $\Delta/2 = 4^{\circ}30'00''$
 $R = 3200$
 $T = 251.85$
 $Lc = 502.66$
 $Ch = 502.14$

CURVE #14
 $\Delta = 18^{\circ}56'40''$
 $\Delta/2 = 9^{\circ}28'20''$
 $R = 2,663.94$
 $T = 444.46$
 $Lc = 880.81$
 $Ch = 876.81$

CURVE #911
 $\Delta = 14^{\circ}44'36''$
 $\Delta/2 = 7^{\circ}22'18''$
 $R = 3600.00$
 $T = 465.75$
 $Lc = 926.35$
 $Ch = 923.80$

CURVE #5
 $\Delta = 16^{\circ}28'00''$
 $\Delta/2 = 8^{\circ}14'00''$
 $R = 2,800.00$
 $T = 405.15$
 $Lc = 804.71$
 $Ch = 801.95$

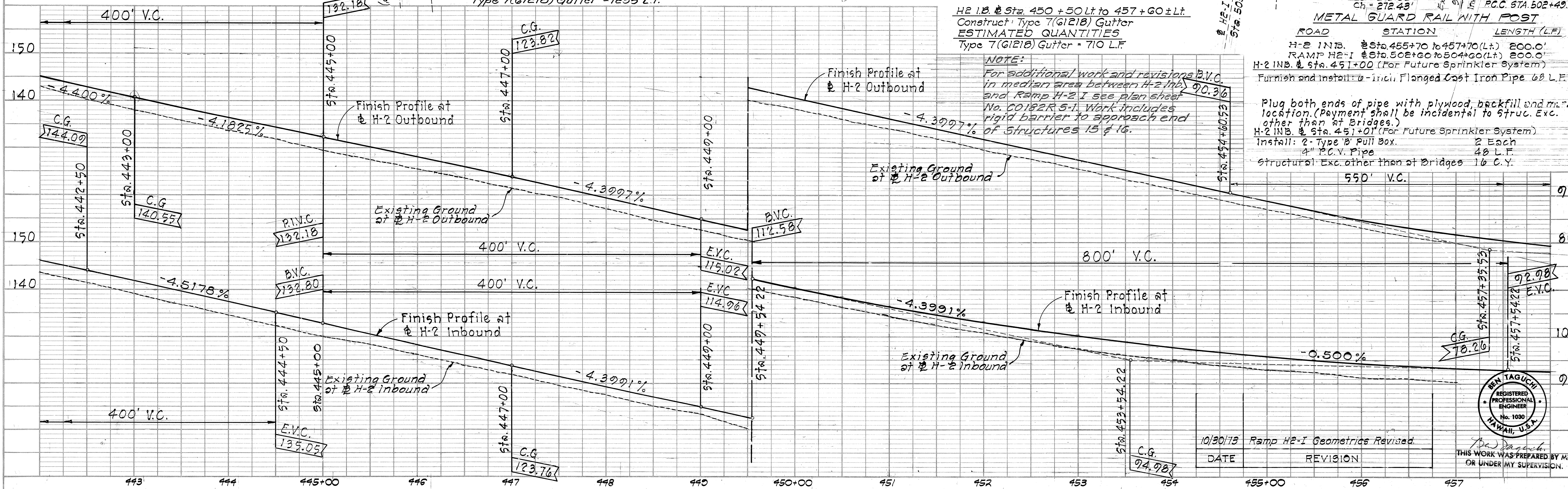
Ramp H2-I @ Sta. 503+00 Lt. to 515+35 Lt.
Construct: Type 7(G1218) Gutter
ESTIMATED QUANTITIES
Type 7(G1218) Gutter = 1235 L.F.

H2 I.B. @ Sta. 450+50 Lt. to 457+60 Lt.
Construct: Type 7(G1218) Gutter
ESTIMATED QUANTITIES
Type 7(G1218) Gutter = 710 L.F.

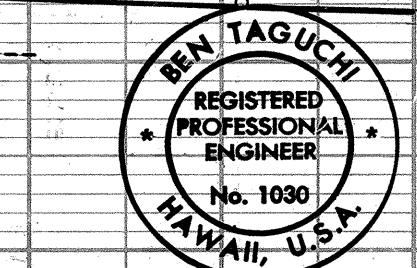
NOTE:
For additional work and revisions to V.C. in median area between H-2 INB and Ramp H-2 I see plan sheet No. C0182R 5-1. Work includes rigid barrier to approach end of Structures 15 & 16.

METAL GUARD RAIL WITH POST
ROAD STATION LENGTH (L.F.)
H-2 INB. @ Sta. 455+70 to 457+70 (L.I.) 200.0'
RAMP H2-I @ Sta. 502+60 to 504+60 (L.I.) 200.0'
H-2 INB. @ Sta. 451+00 (For Future Sprinkler System)
Furnish and install: 6-inch Flanged Cast Iron Pipe 68 L.F.

Plug both ends of pipe with plywood, backfill and mark location. (Payment shall be incidental to Struct. Exc. other than at Bridges.)
H-2 INB. @ Sta. 451+01 (For Future Sprinkler System)
Install: 2-Type B Pull Box. 2 Each
4" P.C.V. Pipe 48 L.F.
Structural Exc. other than at Bridges 16 C.Y.



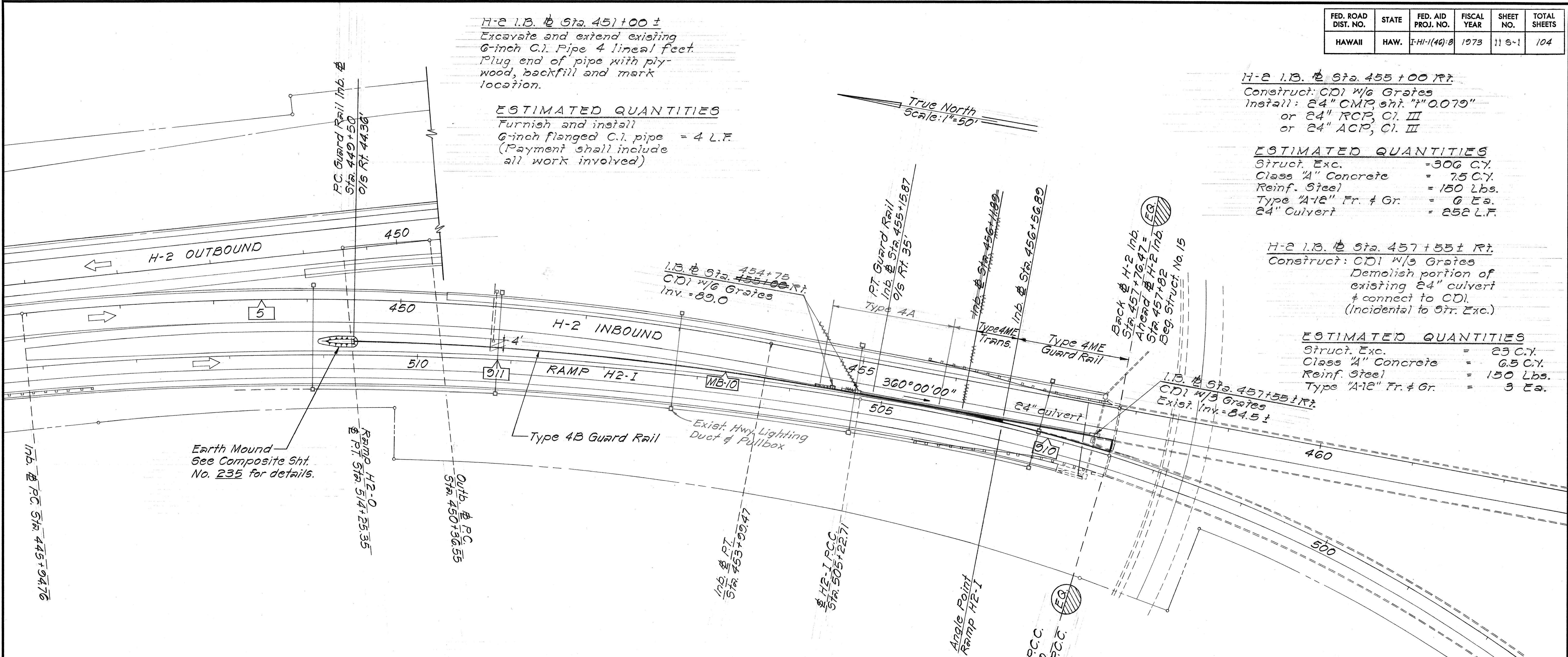
10/30/73 Ramp H2-I Geometrics Revised
DATE REVISION



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

1 S 2 R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(46)-8	1973	115-1	104



CURVE DATA				
	5	910	911	MB-10
Δ	16°28'00"	7°22'28"	14°44'36"	9°11'25"
R	2,800.00'	2,118.15'	3,600.00'	3,484.44'
T	405.15'	136.50'	465.75'	280.05'
LC	804.71'	272.62'	926.35'	558.90'
Ch	801.95'	272.43'	923.80'	558.30'

ESTIMATED QUANTITIES	
Type 4B	559 L.F.
Type 4ME	45 L.F.
Transition	
Type 4ME	120 L.F.

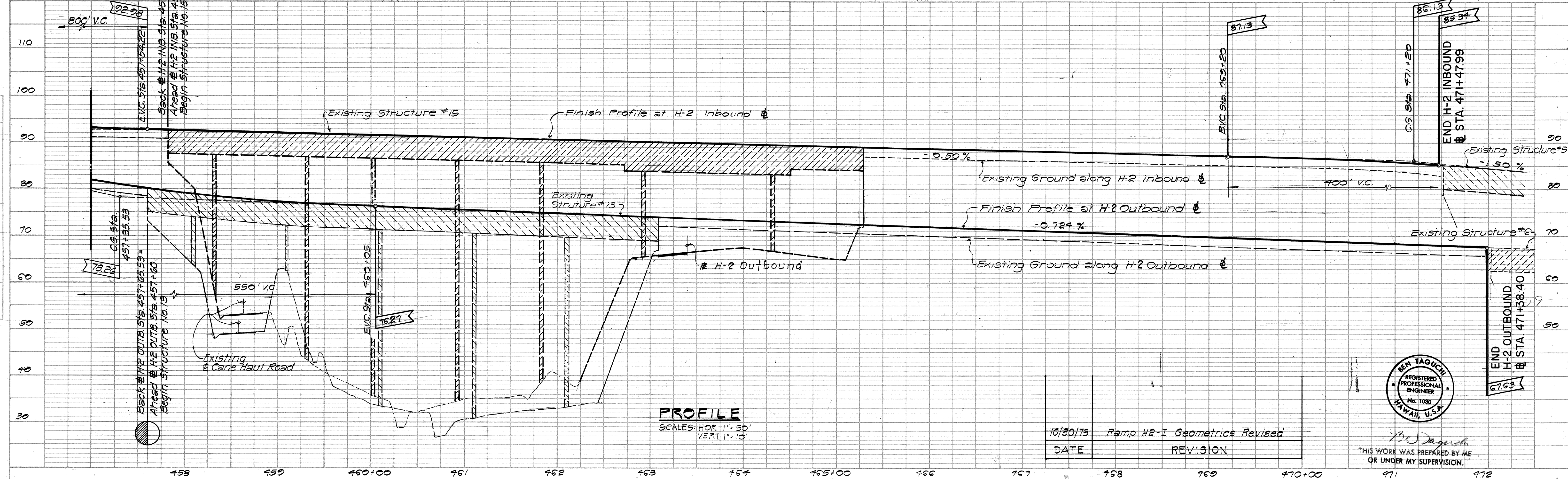
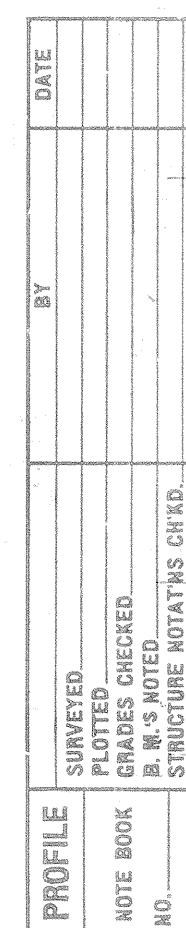
- NOTES:**
- Type 4B Guard Rail will be paid for under Item No. 606.411. Earth Mound at Inb. @ Sta. 449+50 will be considered incidental to new Item No. 606.415, Guard Rail-Type 4ME.
 - Type 4ME Guard Rail (See Composite Sht. No. C.O. 246 S-1 for details)
 - Payment for Type 4ME will be paid for per Linear Foot, measured along the front face of H2-Inb., under new Item No. 606.415 - Guard Rail, Type 4ME, and will include full compensation for furnishing all labor, materials, tools, and equipment and incidentals necessary to complete the work.
 - Compacted earth fill, 4" concrete slab, reinforcing steel, curtain wall, will not be paid for separately but will be considered incidental to Type 4ME Guard Rail.
 - Type 4ME Transition will be paid for per Linear Foot under new Item No. 606.415 - Guard Rail, Type 4ME.
 - Type 4ME and Transition controlled by edge of shoulder, see Composite Sht. No. C.O. 236 S-1 for details.
 - Median C.D.I. (See Composite Sht. No. C.O. 200 S-1 for details)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SUPPLEMENT
INB. @ STA. 449+50 to 457+76.47
WAIAWA INTERCHANGE
F.A.I. Proj. No. I-HI-1(46)-8

Scale: 1"=50'
Date: Feb, 1974

SHEET No. 115 OF 104 SHEETS



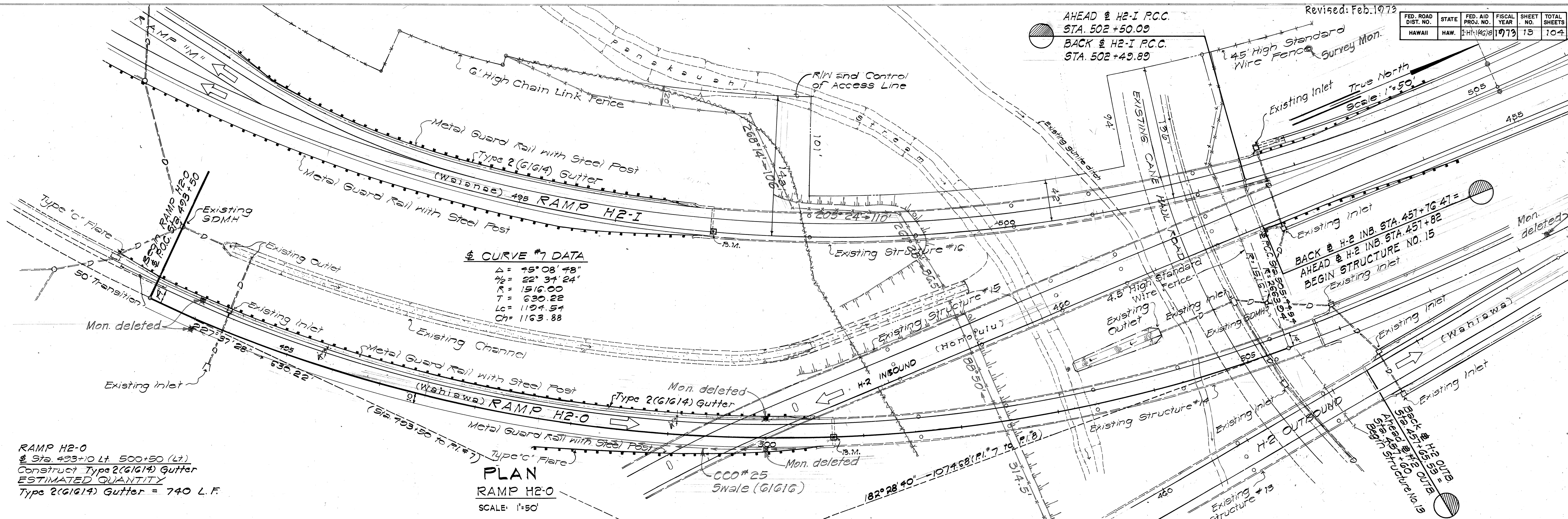
PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	ALIGNED CHECKED	
	W. OF WAY CHECKED	

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	
	STRUCTURE NOTINGS CHECKED	

Revised: Feb. 1973

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H-11(66)B	1973	13	104

AHEAD & H2-I P.C.C.
STA. 502+50.09
BACK & H2-I P.C.C.
STA. 502+49.89

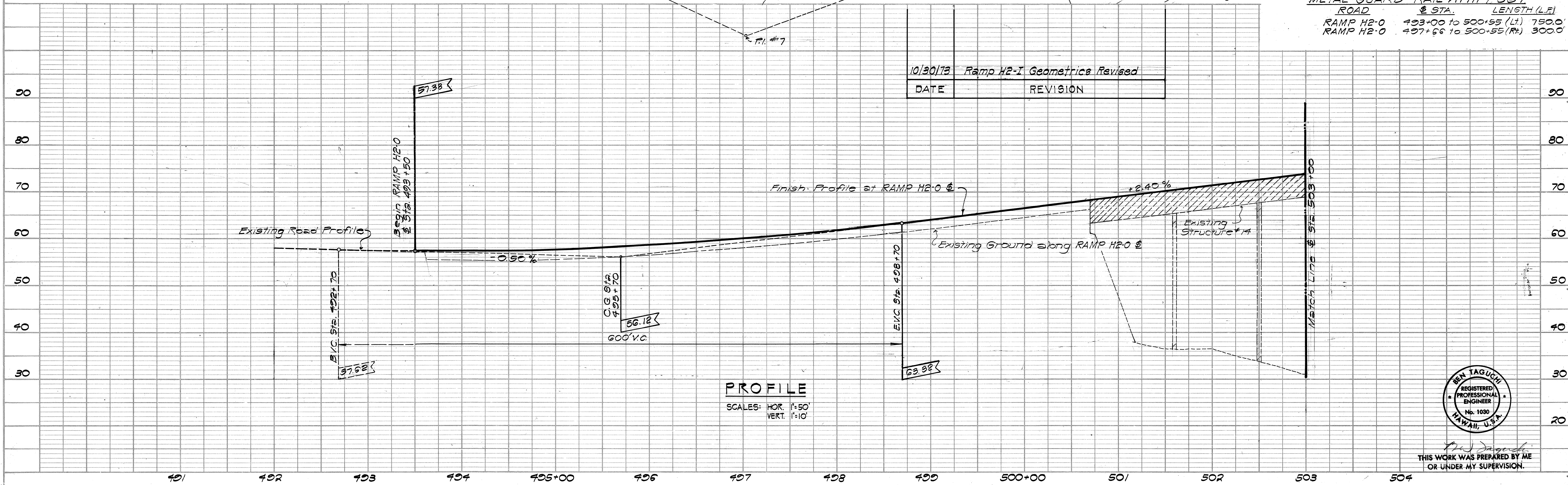


CURVE #7 DATA
 $\Delta = 19^{\circ}08'48''$
 $\Delta_2 = 22^{\circ}34'24''$
 $R = 1516.00$
 $T = 630.22$
 $L = 1194.54$
 $Ch = 1163.88$

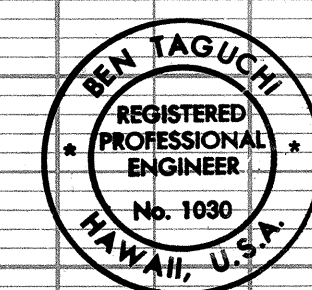
PLAN
RAMP H2-0
 SCALE: 1"=50'

ROAD	STA.	LENGTH (L.F.)
RAMP H2-0	493+00 to 500+55 (L.F.)	755.0
RAMP H2-0	497+68 to 500+55 (R.F.)	300.0

10/30/73	Ramp H2-I Geometrics Revised
DATE	REVISION



PROFILE
 SCALES: HOR. 1"=50'
 VERT. 1"=10'

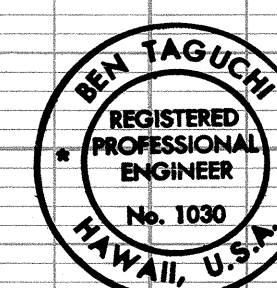
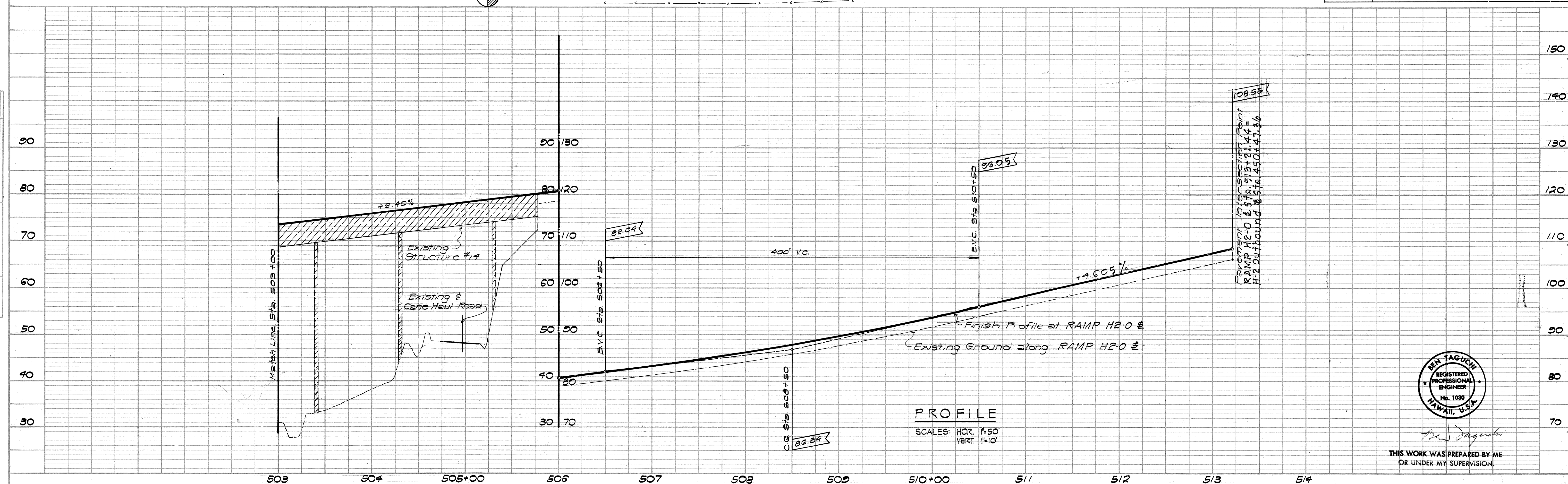
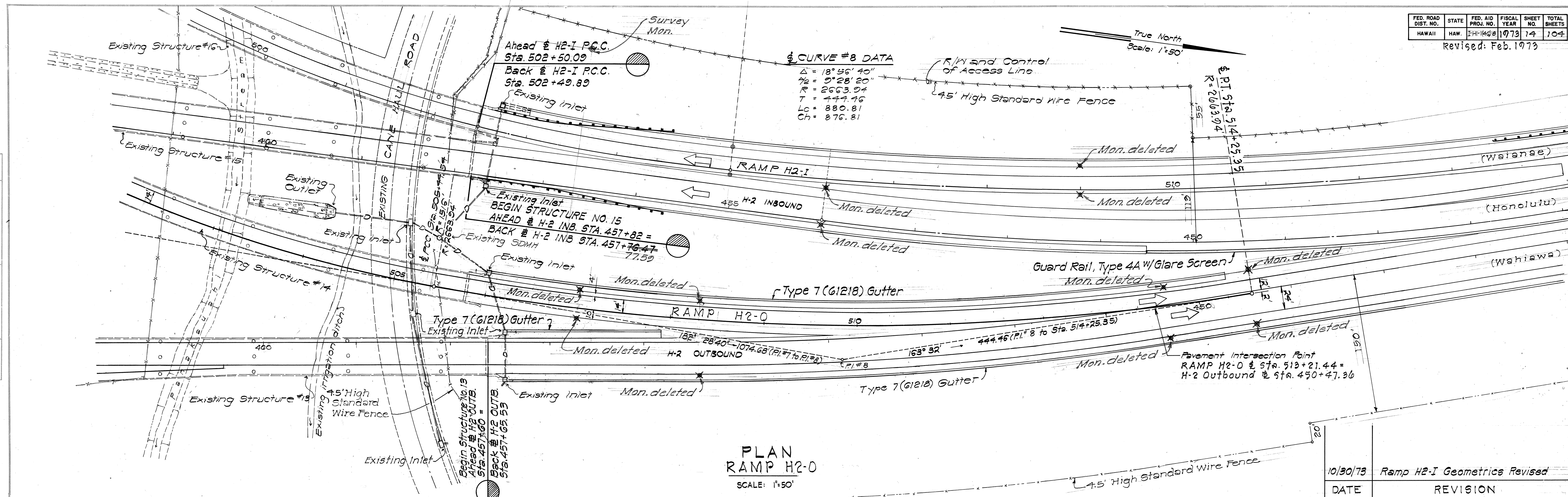


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1 S 4 R

PLAN	DATE	BY	DATE
SURVEYED			
PLOTTED			
GRADES CHECKED			
RT OF WAY CHECKED			
NO.			

PROFILE	DATE	BY	DATE
SURVEYED			
PLOTTED			
GRADES CHECKED			
STRUCTURE NOTATIONS CHND			
NO.			

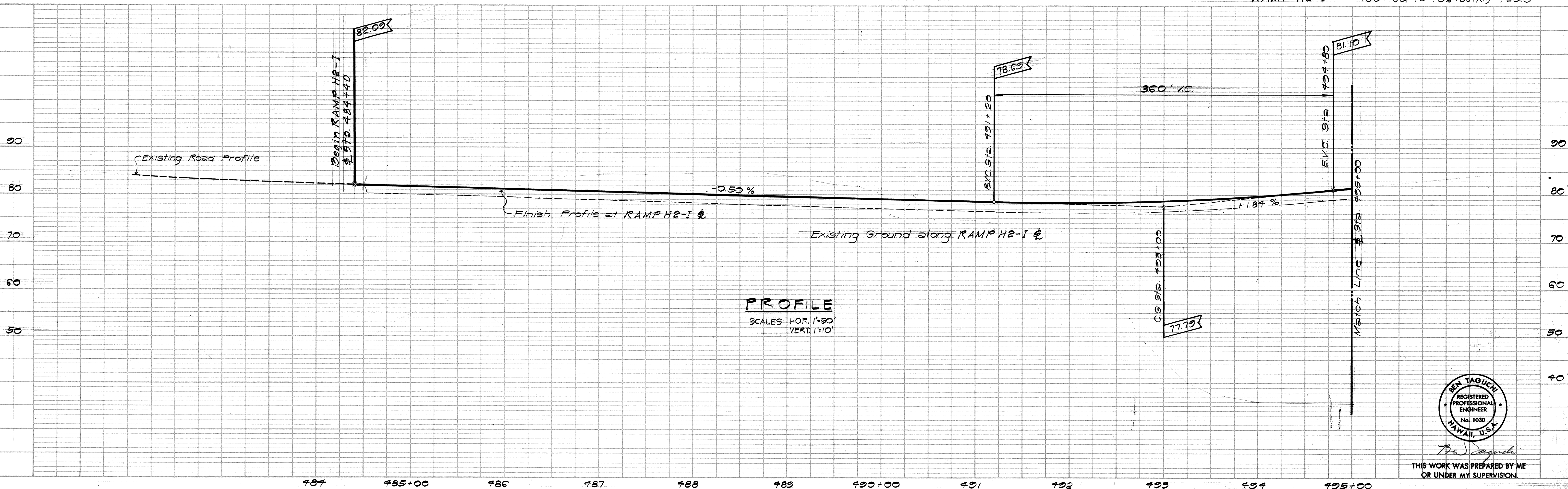
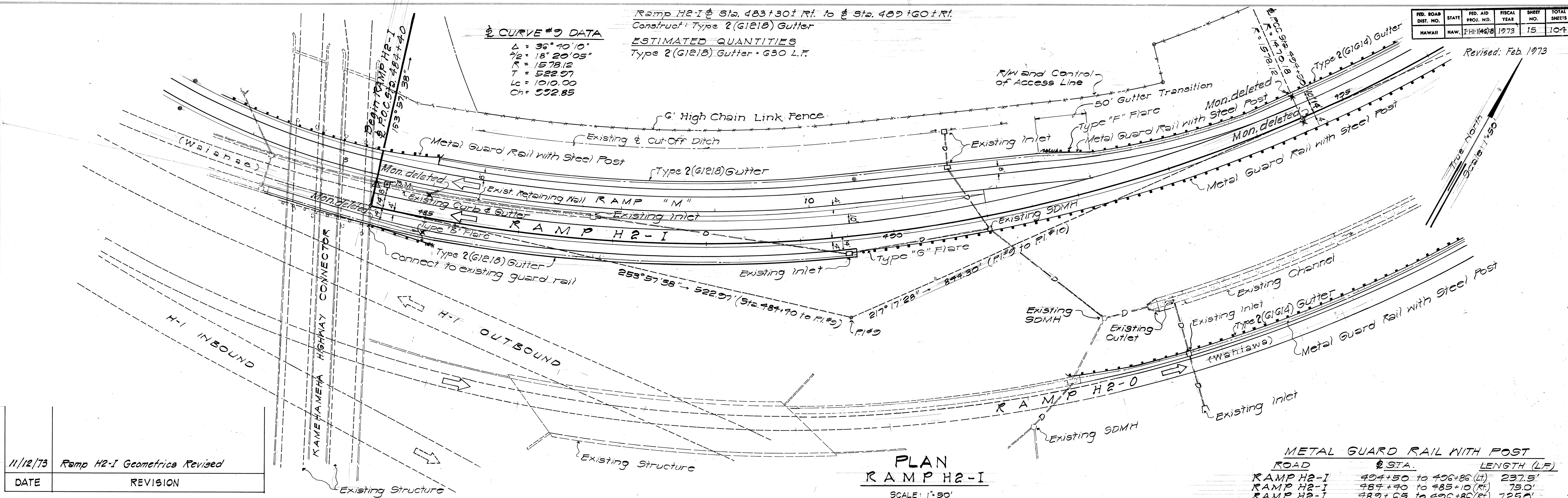


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PLAN	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
NO.	

PROFILE	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
NO.	



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Revised: Feb. 1973

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HH(468)	1973	16	104

§ CURVE #10 DATA

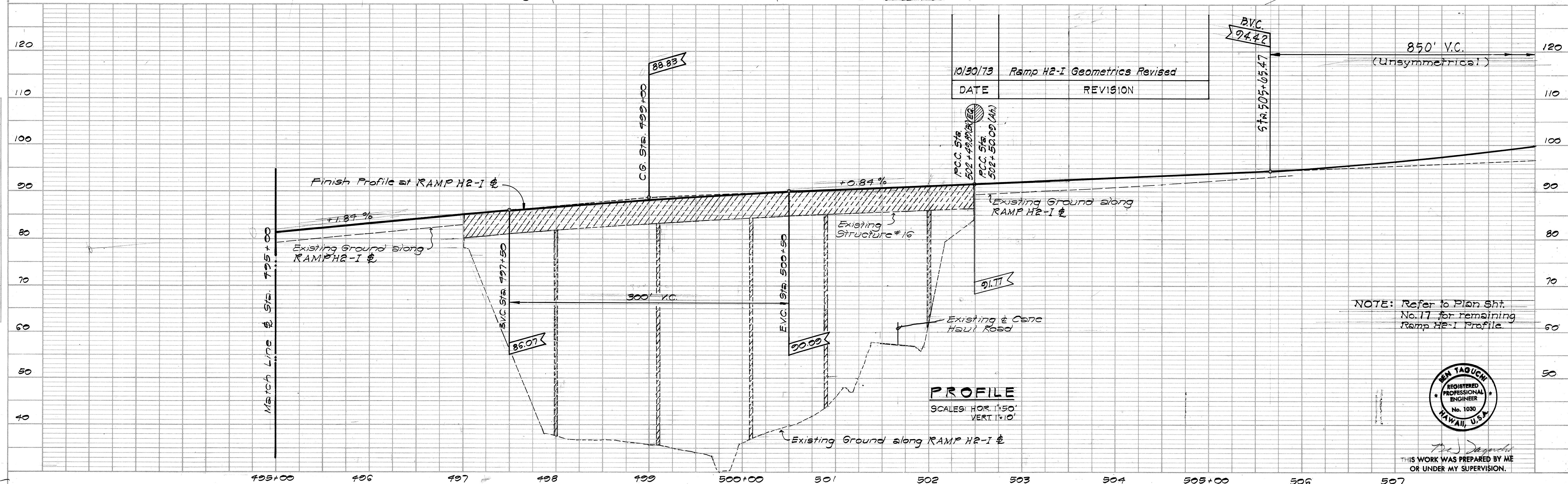
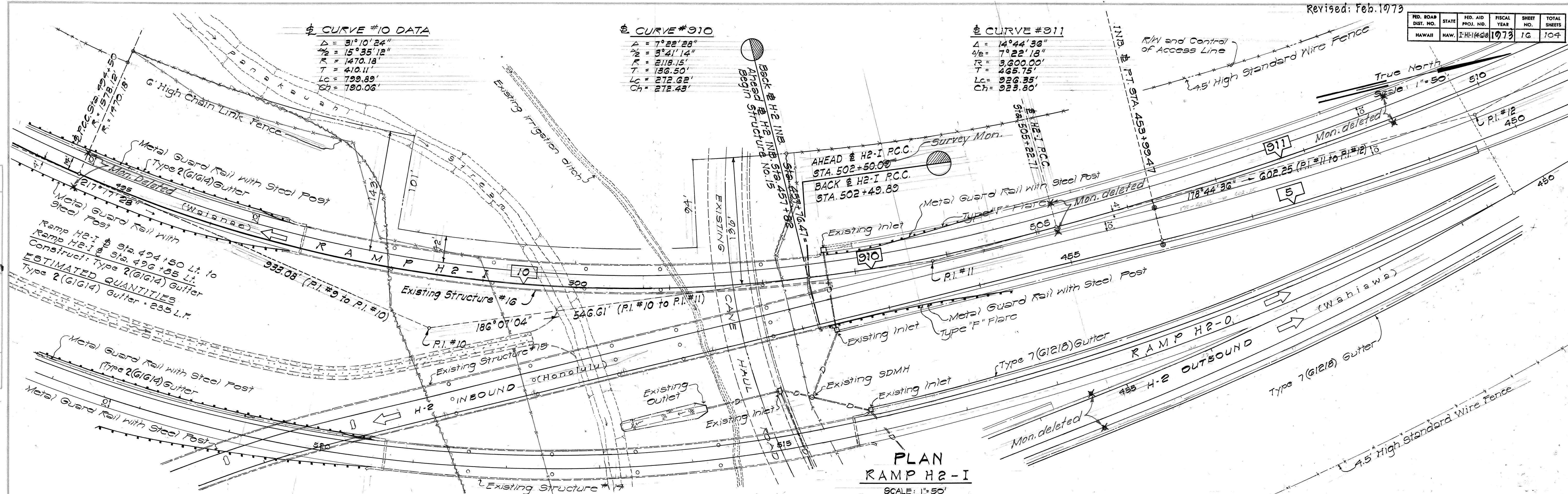
$\Delta = 31^{\circ}10'24"$
 $\frac{\Delta}{2} = 15^{\circ}35'12"$
 $R = 1470.18'$
 $T = 410.11'$
 $Lc = 799.89'$
 $Ch = 190.06'$

§ CURVE #910

$\Delta = 7^{\circ}22'28"$
 $\frac{\Delta}{2} = 3^{\circ}41'14"$
 $R = 2118.15'$
 $T = 136.50'$
 $Lc = 272.62'$
 $Ch = 272.43'$

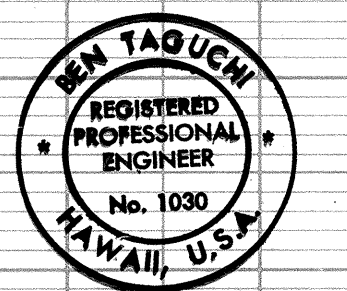
§ CURVE #911

$\Delta = 14^{\circ}44'36"$
 $\frac{\Delta}{2} = 7^{\circ}22'18"$
 $R = 3600.00'$
 $T = 465.75'$
 $Lc = 926.35'$
 $Ch = 923.80'$



10/30/73	Ramp H2-I Geometrics Revised
DATE	REVISION

NOTE: Refer to Plan Sht. No. 17 for remaining Ramp H2-I Profile.

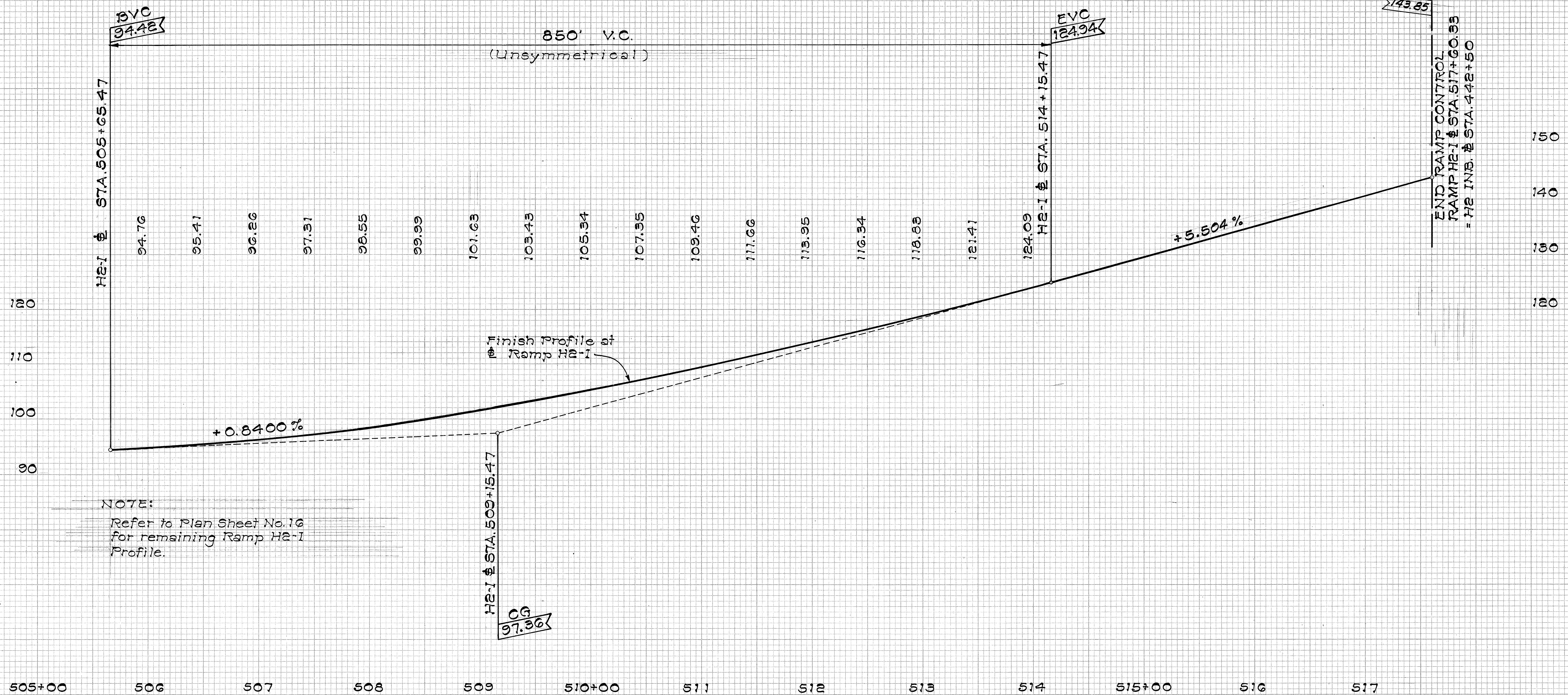


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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(40)8	1973	17	104

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	AREAS CHECKED		



PROFILE ~ RAMP H2-1
SCALE: HOR. 1" = 50'
VER. 1" = 10'

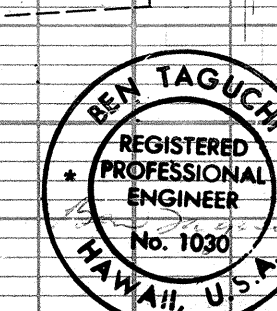
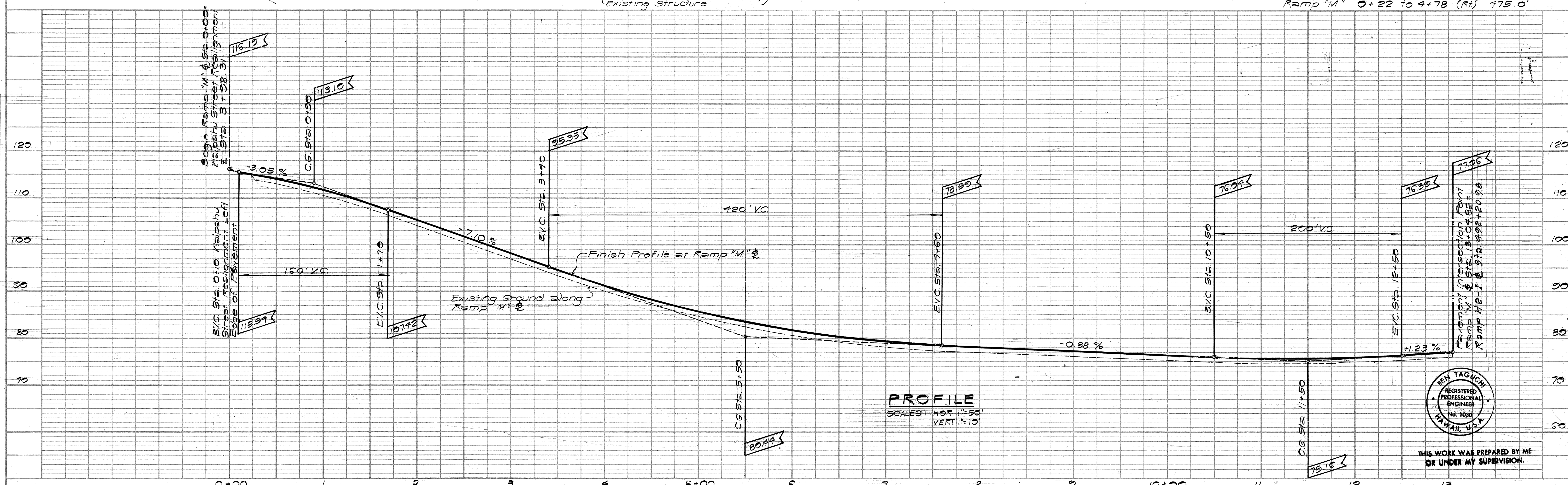
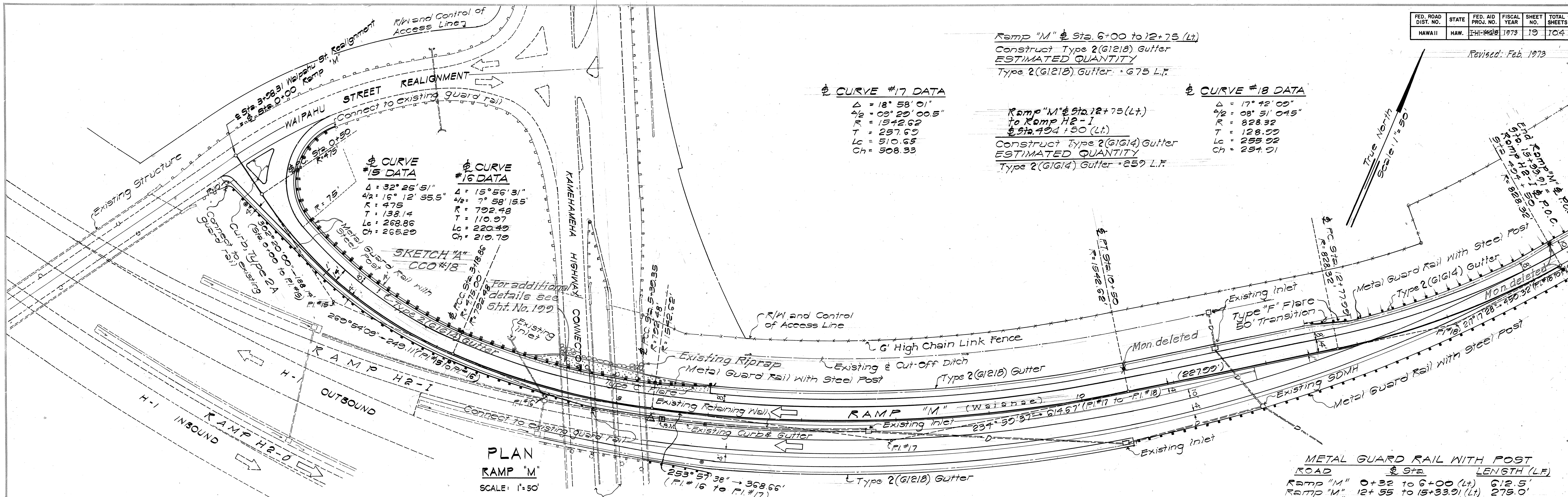
10/30/73	Profile Revised
DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TH-1428	1973	19	104

Revised: Feb. 1973

PLAN	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	

PROFILE	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	



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