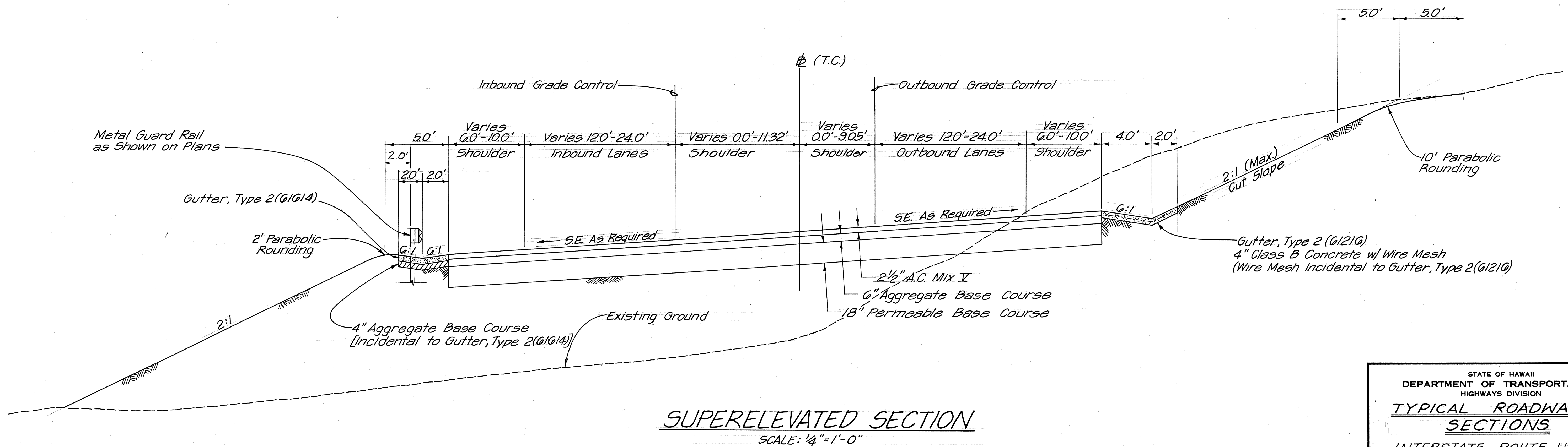
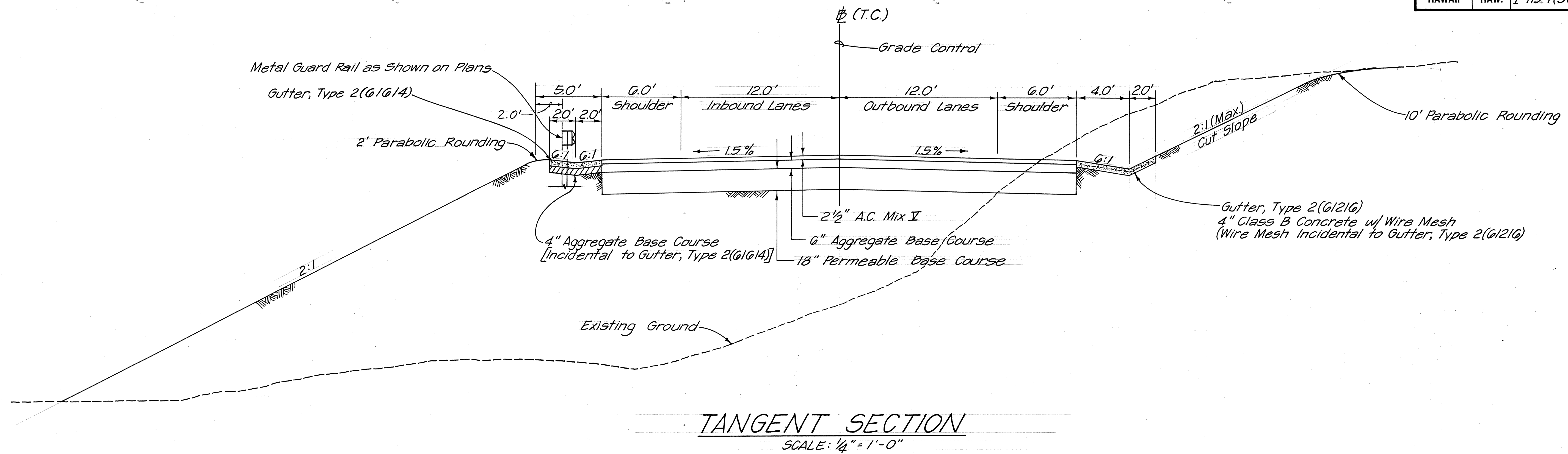


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD 164S-1	164



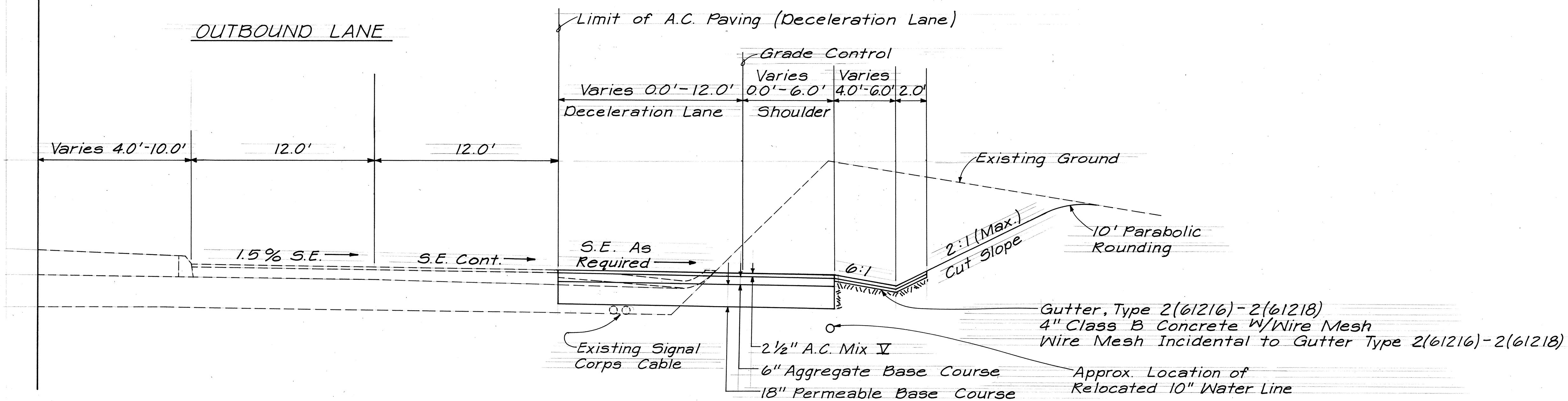
TEMPORARY CONNECTOR

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL ROADWAY SECTIONS
INTERSTATE ROUTE H-3
TEMP CONNECTOR
F.A.I. PROJECT NO I-H3-1(50)
Scale: As shown Date: Feb, 1989
SHEET No. 1 OF 2 SHEETS

ADD.164S-1

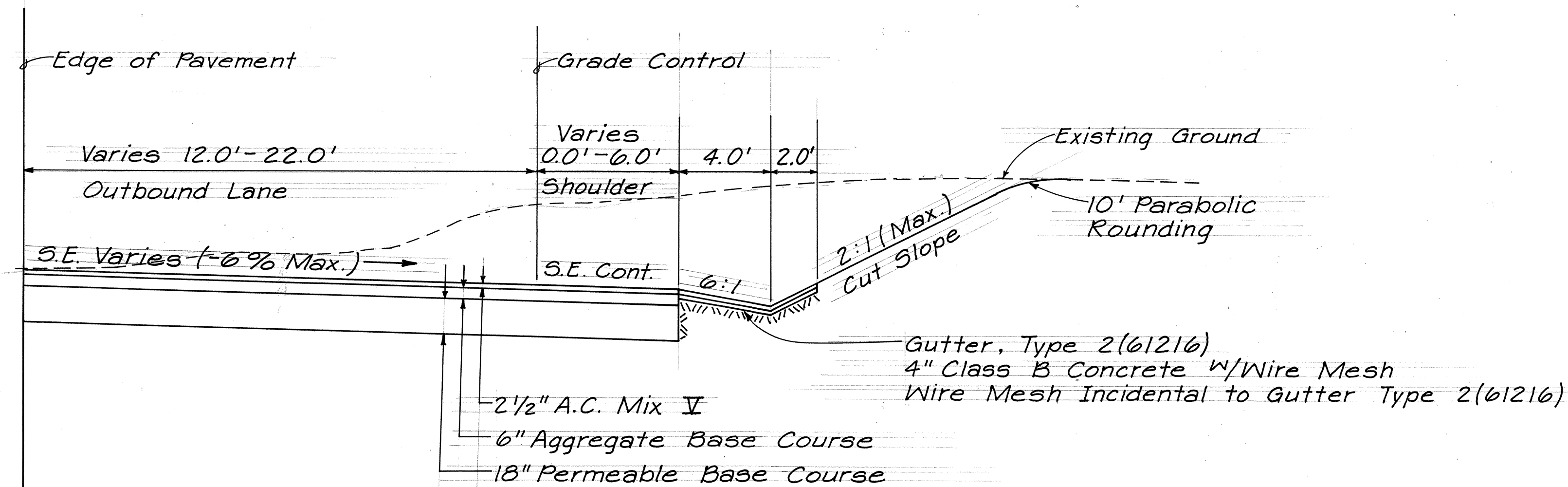
ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD 164S-2	164



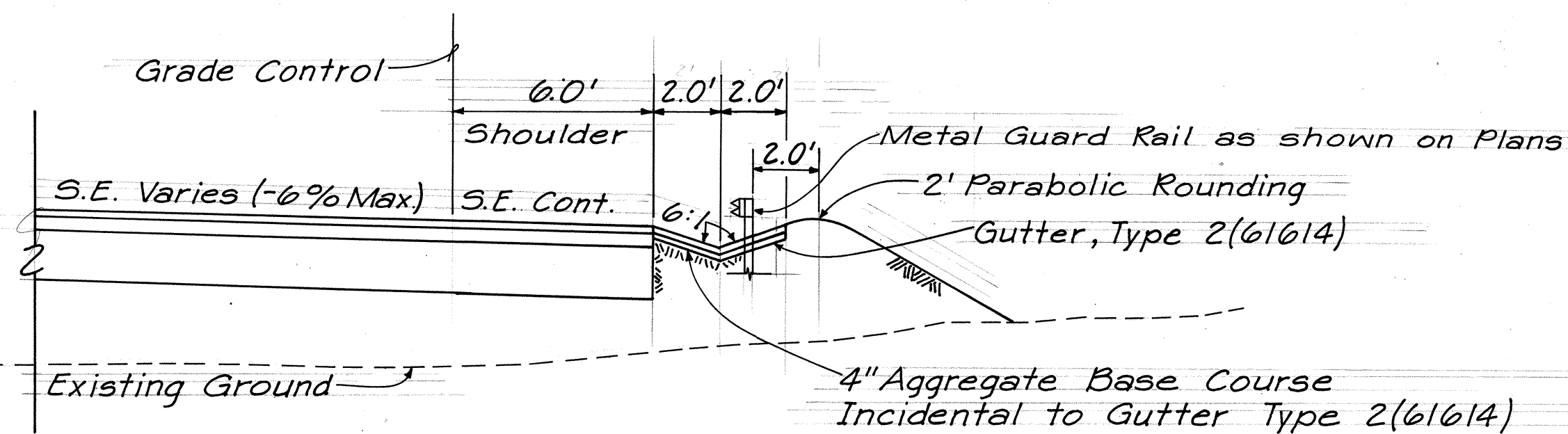
TYPICAL SECTION - LIKELIKE HIGHWAY

Sta. 59+00 - Sta. 64+74
Scale: 1/4" = 1'-0"



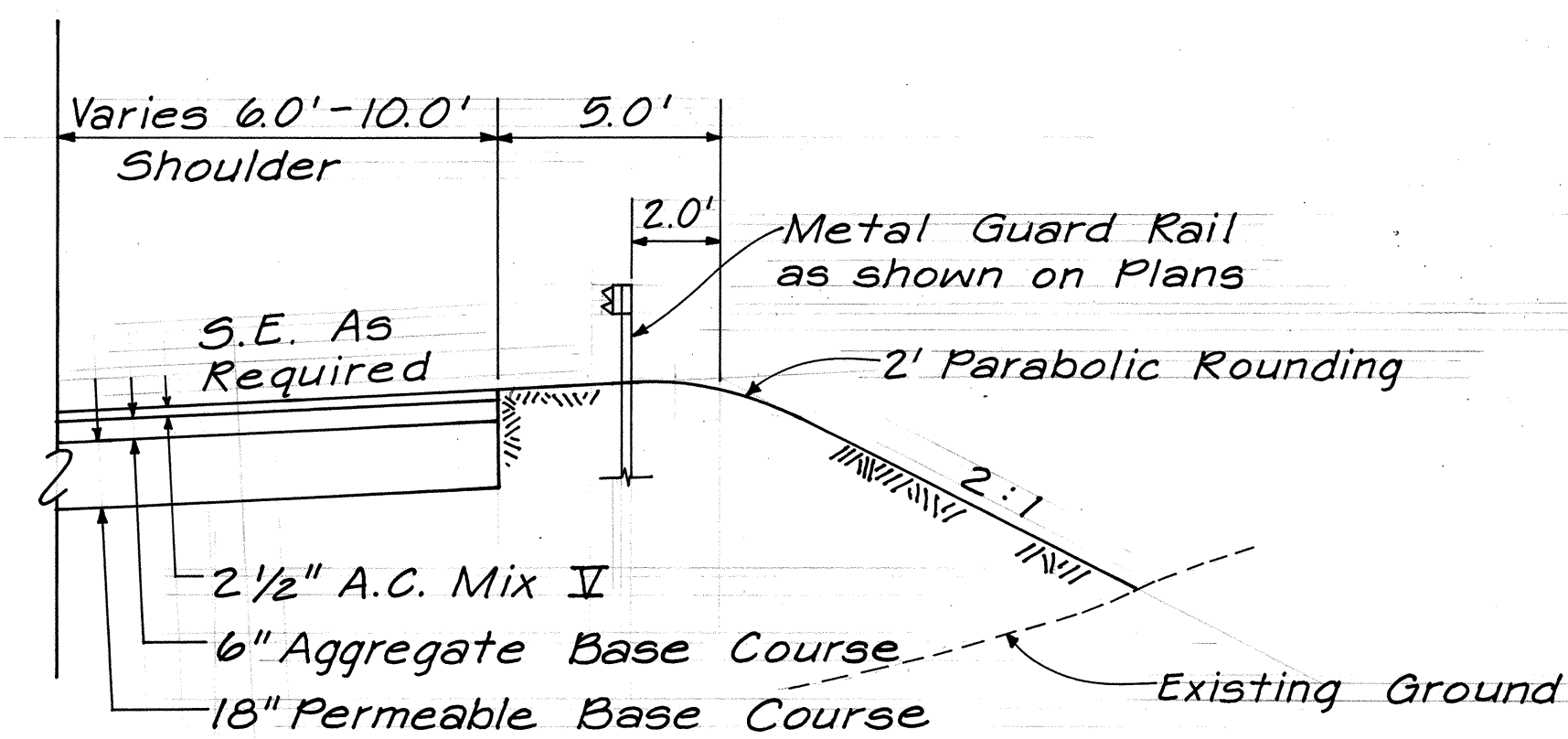
TYPICAL SECTION AT INTERSECTION TEMPORARY CONNECTOR - LIKELIKE HWY.

Scale: 1/4" = 1'-0"



TYPICAL SECTION ON FILL

Scale: 1/4" = 1'-0"



SUPERELEVATED SECTION ON FILL

Scale: 1/4" = 1'-0"

Note: See Sheet No. C.O. 14S-2
for Typical Roadway Sections
of Temporary Connector
H-3 Crossover.

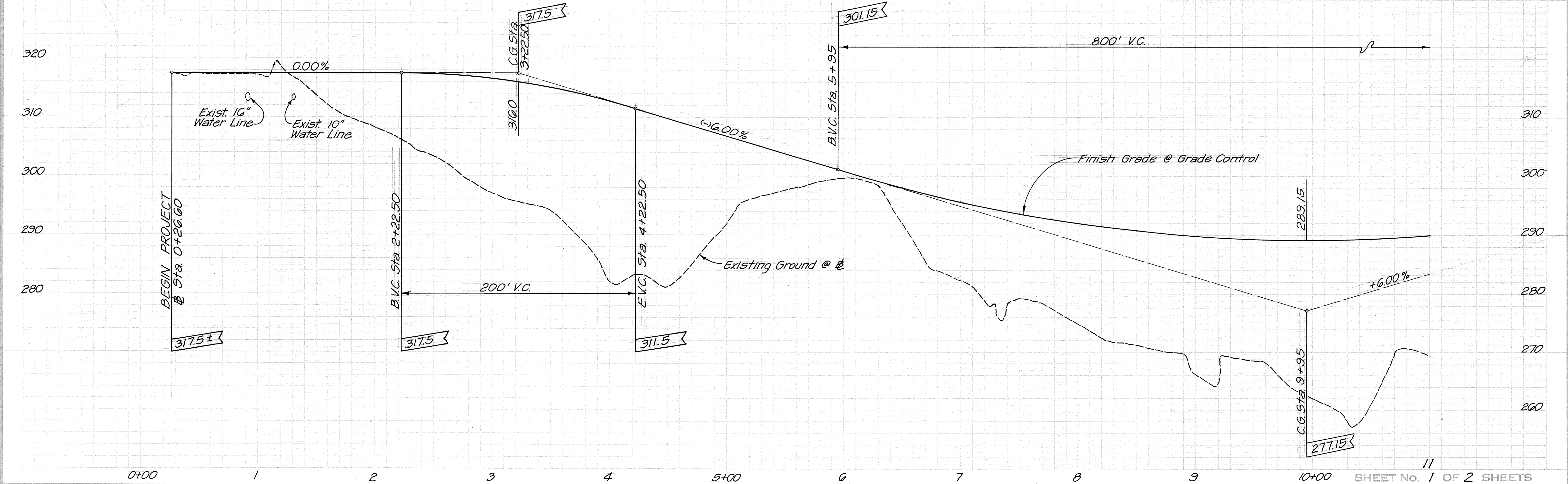
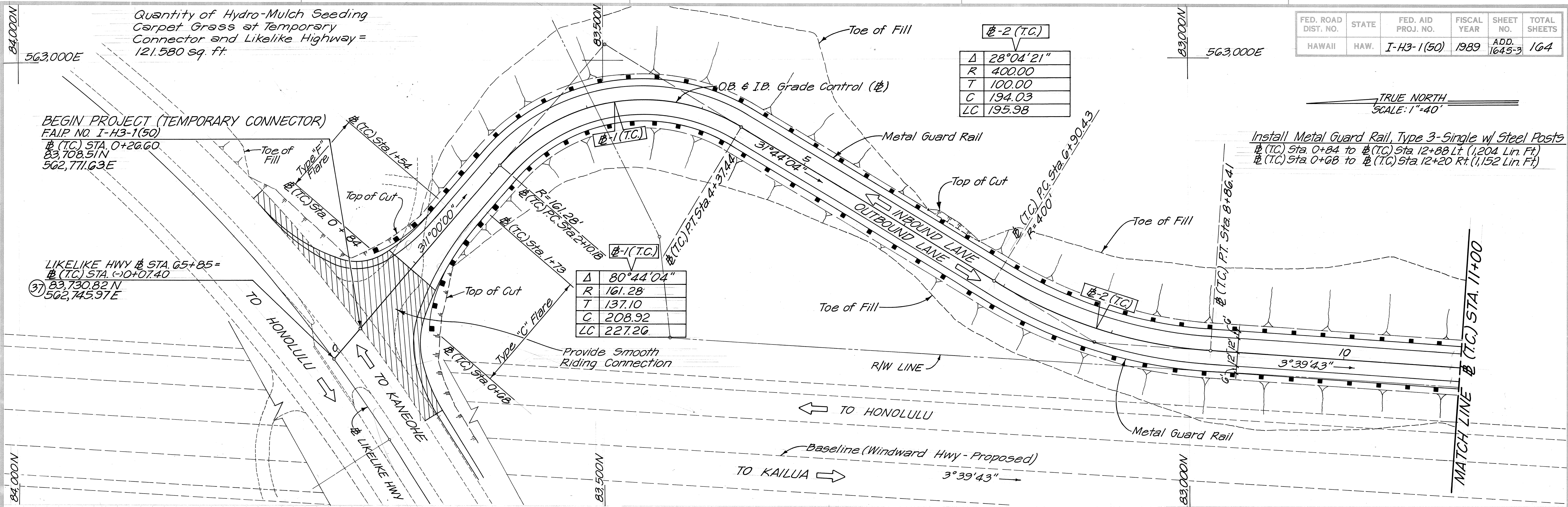
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TYPICAL ROADWAY SECTIONS	
INTERSTATE ROUTE H3 TEMPORARY CONNECTOR F.A.I. Proj. No. I-H3-1(50)	
Scale: As Shown	Date: Feb., 1989
SHEET NO. 2 OF 2 SHEETS	

ADD.164S-2

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD. 164S-3	164

TRUE NORTH
SCALE: 1"=40'



SHEET No. 1 OF 2 SHEETS

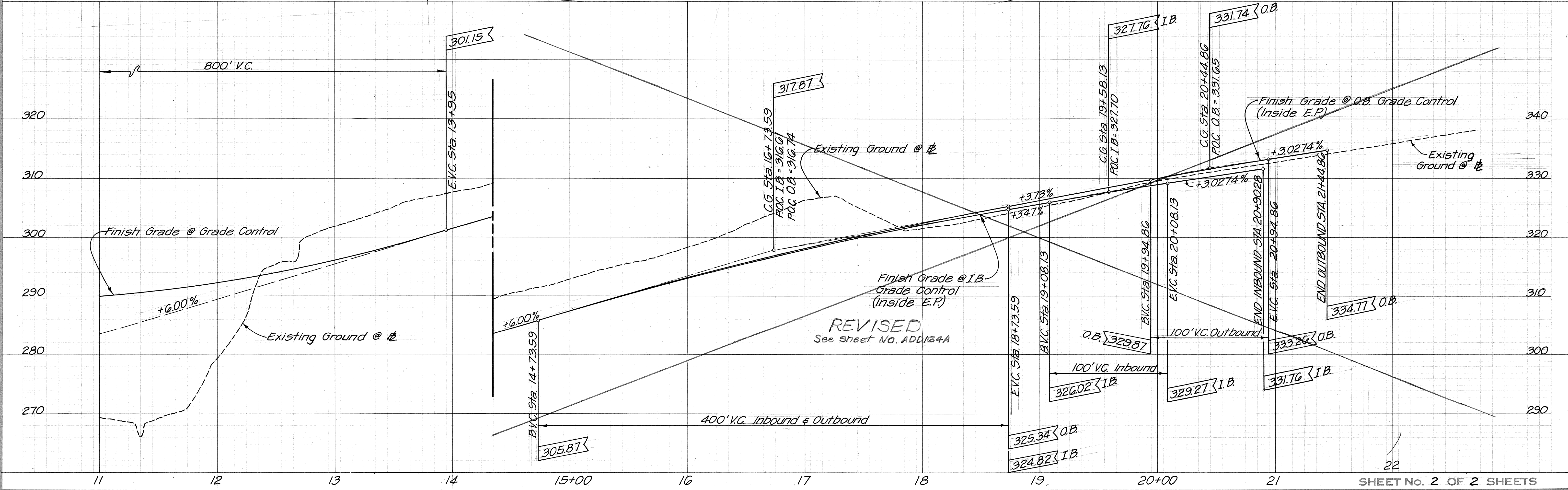
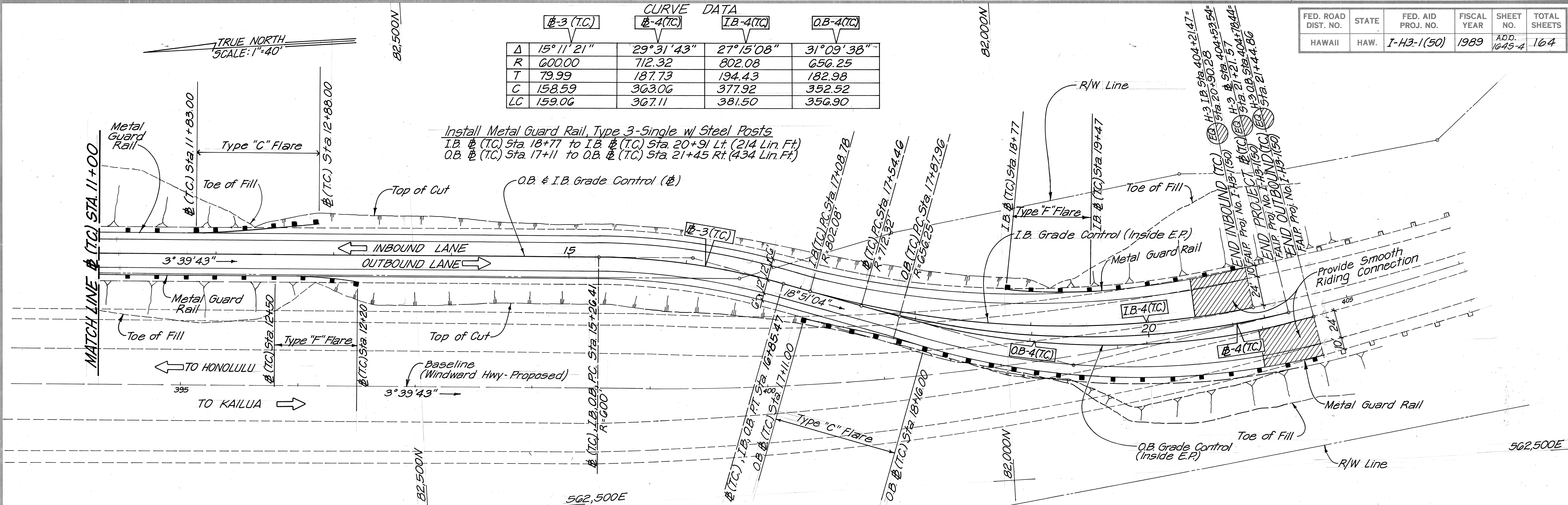
ADD164S-3

ADD 164S-3

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD. 164S-4	164

	Δ-3 (TC)	Δ-4 (TC)	IB-4 (TC)	OB-4 (TC)
Δ	15° 11' 21"	29° 31' 43"	27° 15' 08"	31° 09' 38"
R	600.00	712.32	802.08	656.25
T	79.99	187.73	194.43	182.98
C	158.59	363.06	377.92	352.52
LC	159.06	367.11	381.50	356.90



SHEET NO. 2 OF 2 SHEETS

ADD.164S-4

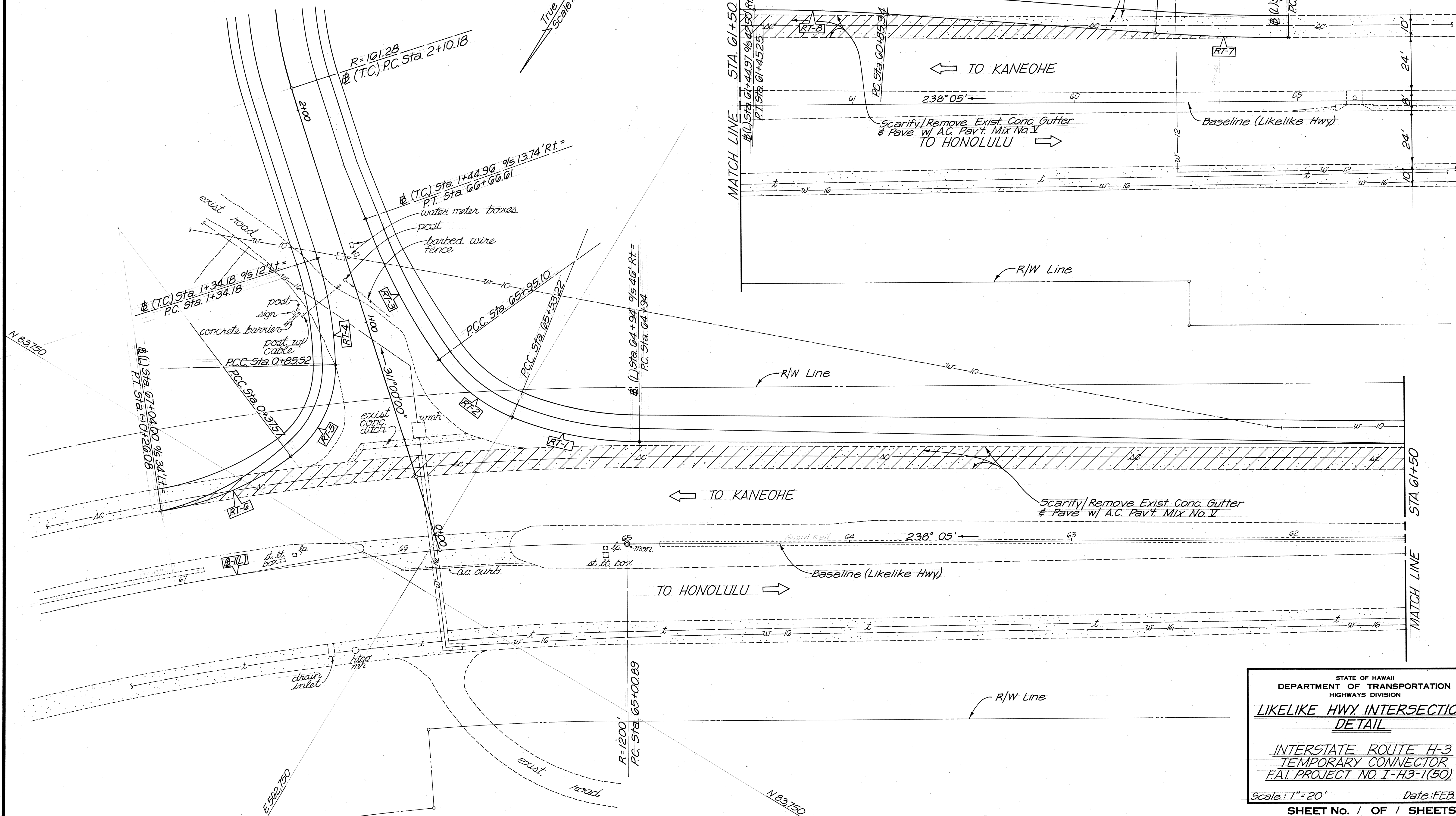
ADD.164S-4

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

CURVE DATA

	RT-1	RT-2	RT-3	RT-4	RT-5	RT-6	RT-7	RT-8
Δ	35°43'00"	22°37'12"	31°59'30"	16°23'19"	10°24'06"	54°56'56"	28°29'36"	3°48'51"
R	1200.00'	150.00'	75.00'	250.00'	170.00'	50.00'	128.00'	900.00'
T	386.63'	30.00'	21.50'	36.00'	24.50'	26.00'	32.50'	29.97'
C	735.99'	58.84'	41.34'	71.27'	48.50'	46.14'	63.00'	59.90'
L	748.05'	59.22'	41.88'	71.51'	48.66'	47.95'	63.65'	59.91'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD. 164S-5	164



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**LIKELIKE HWY. INTERSECTION
DETAIL**

INTERSTATE ROUTE H-3
TEMPORARY CONNECTOR
FAI PROJECT NO. I-H3-1(50)

Scale: 1" = 20' Date: FEB 1989

SHEET No. 1 OF 1 SHEETS

ADD. 164S-5

107688

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LIKELIKE HWY INTERSECTION
PAV'T. GRADE PLAN

INTERSTATE ROUTE H-3
TEMPORARY CONNECTOR
FAI. PROJECT NO. I-H3-1(SO)

Scale: 1" = 20' Date: FEB. 1968

SHEET No. 1 OF 1 SHEETS

ADD.164S-6

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD. 164S-7	164

SUPERELEVATION DIAGRAM

I-H3-1(50) TEMPORARY CONNECTOR

Scale: Horiz. 1"=50'
Vert. 1"=5%

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

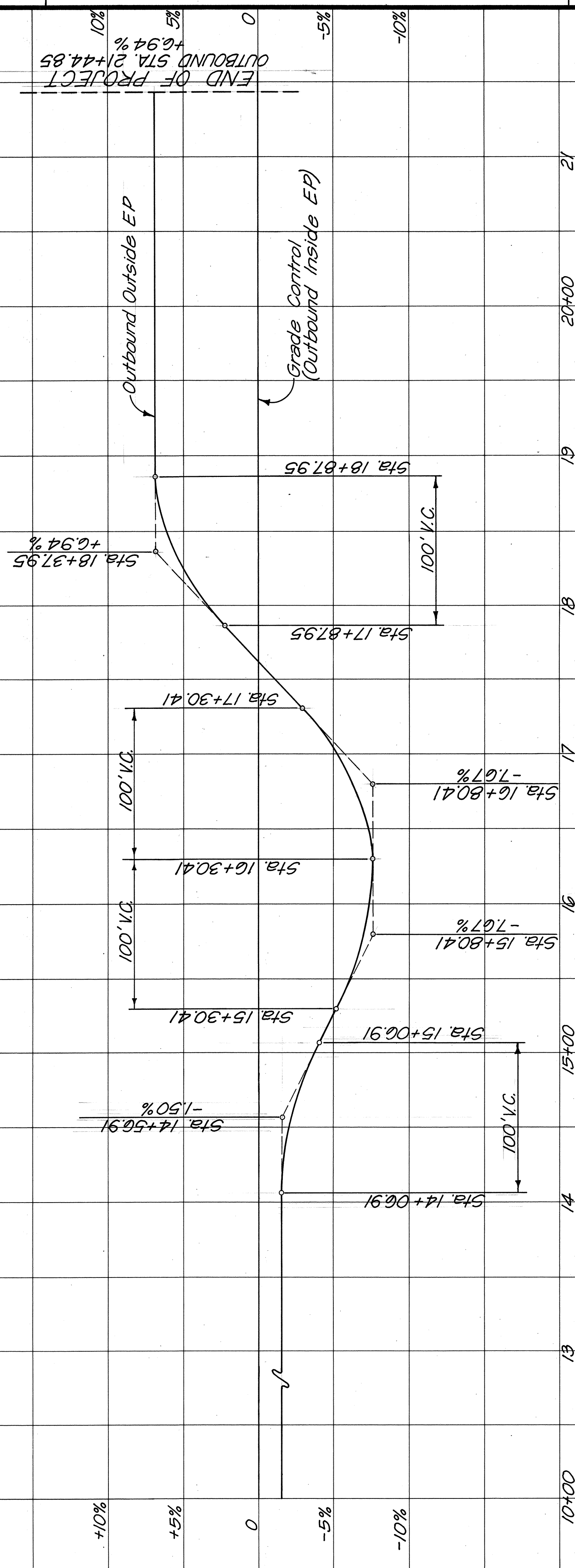
SUPERELEVATION DIAGRAM

INTERSTATE ROUTE H3
TEMPORARY CONNECTOR
F.A.I. Proj. No. I-H3-1(50)

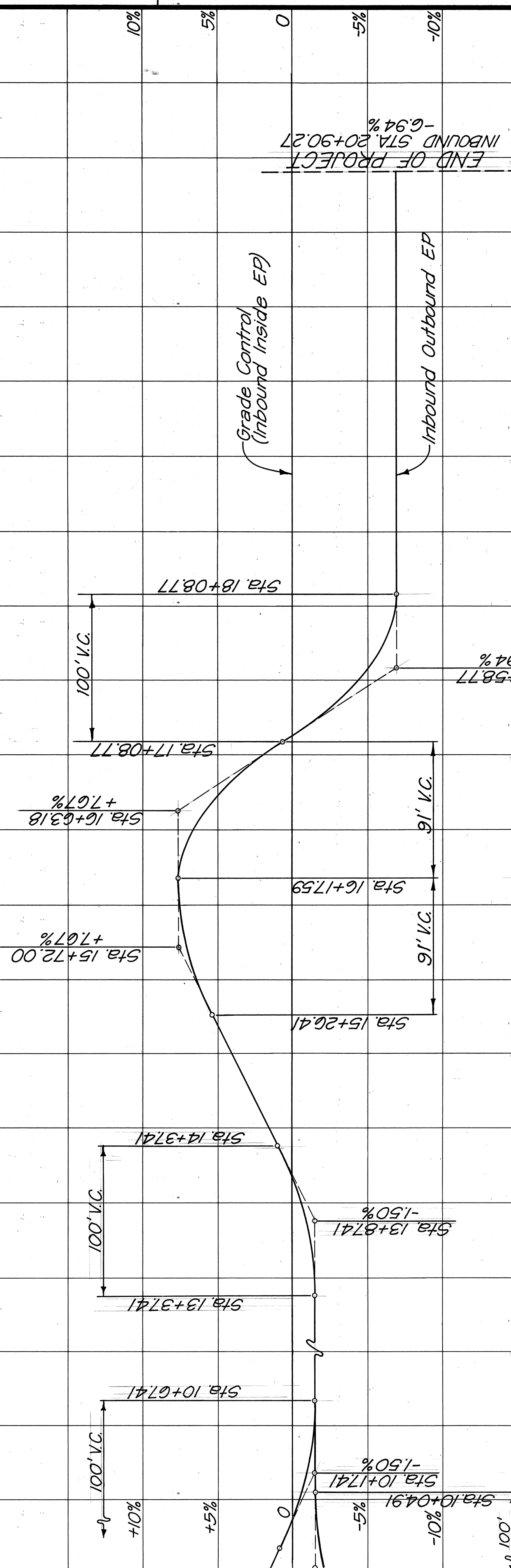
Scale: As Shown Date: Feb., 1989

SHEET No. OF SHEETS

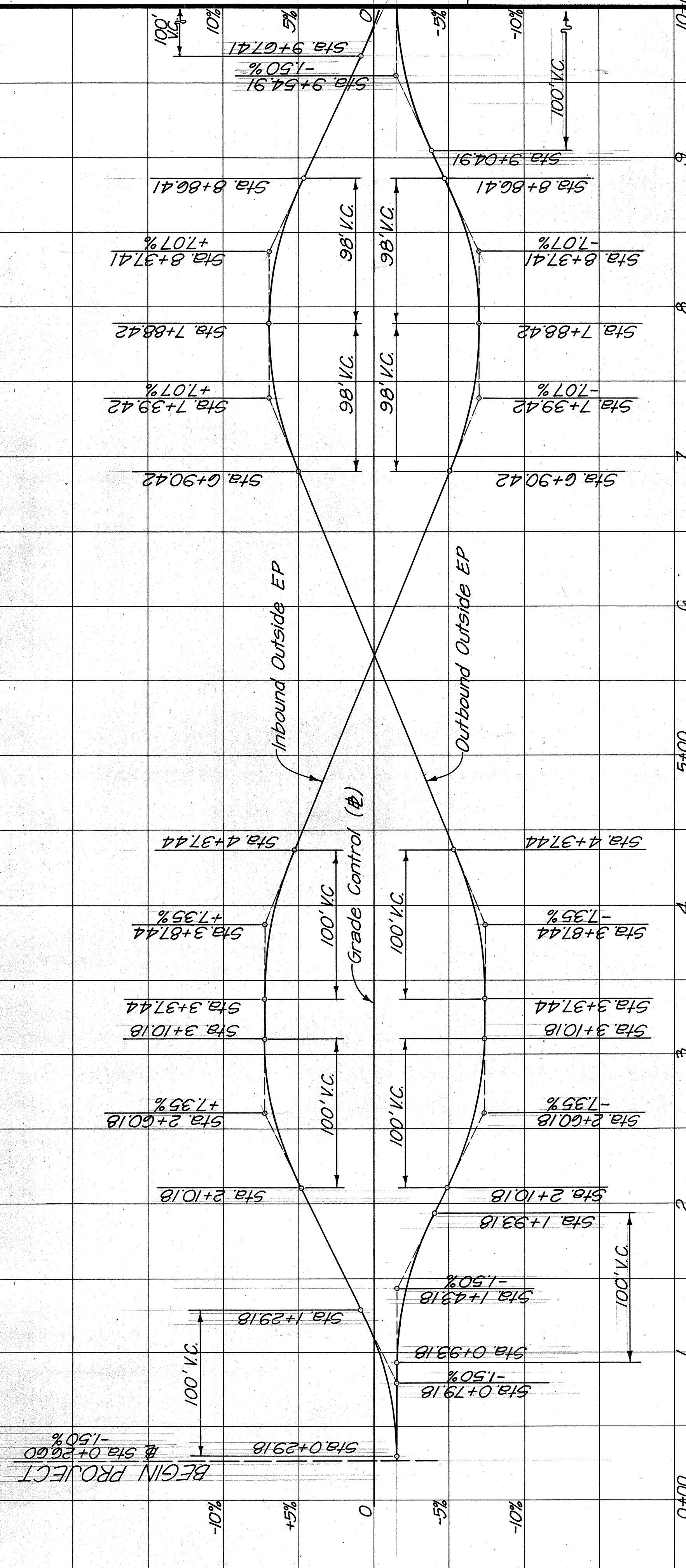
OUTBOUND LANES



INBOUND LANES



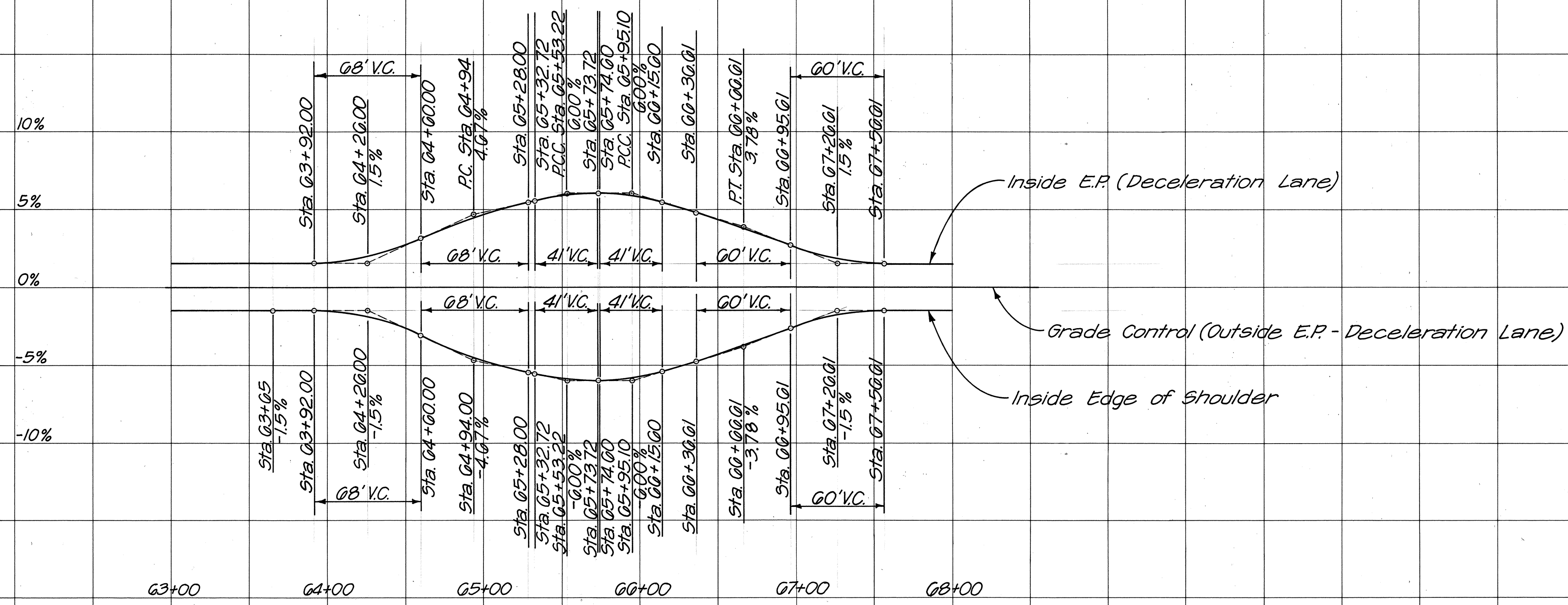
OUTBOUND & INBOUND LANES



ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

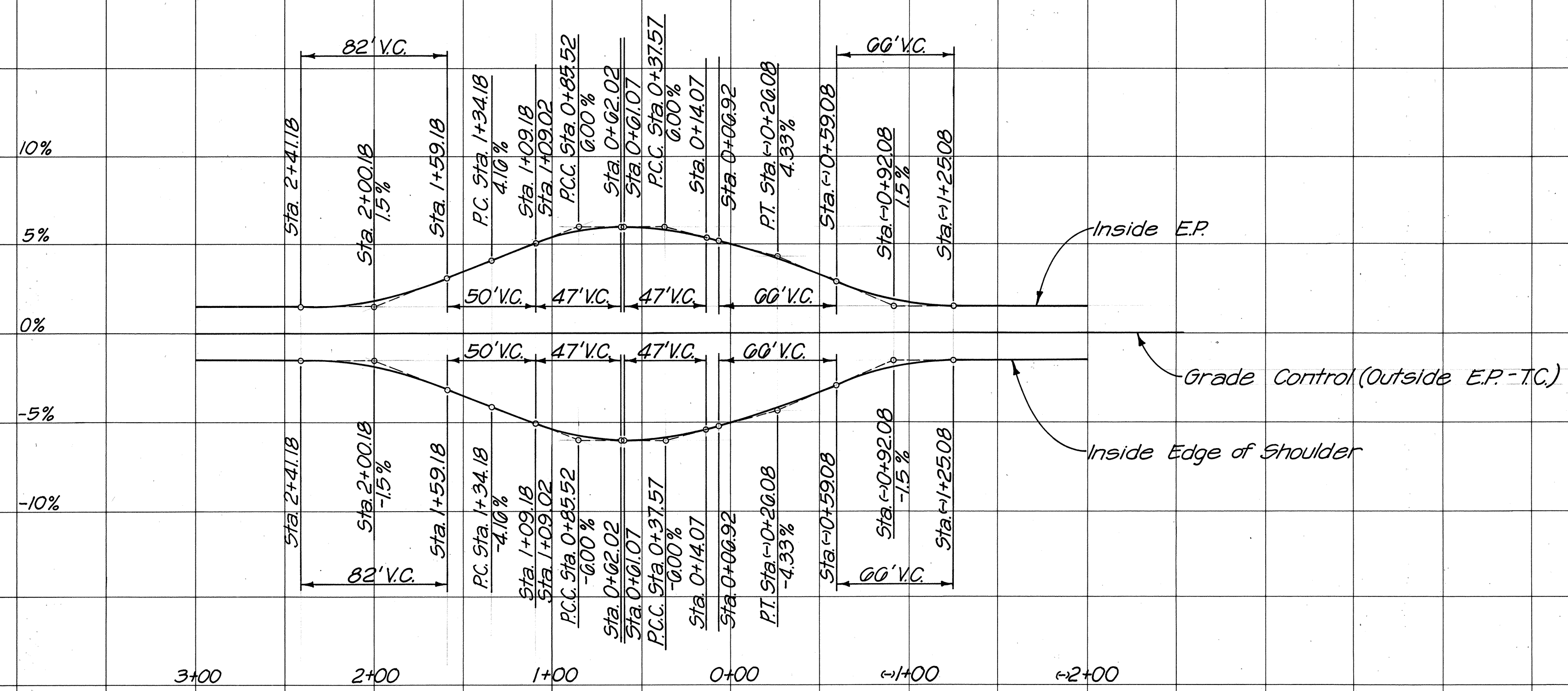
ADD.164S-7

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD. 164S-8	104



OUTBOUND LANE (RT. TURN LANE FROM LIKELIKE HWY TO T.C.)

Scale: Horiz. 1"=50'
Vert. 1"=5%



INBOUND LANE (RT. TURN LANE FROM T.C. TO LIKELIKE HWY)

Scale: Horiz. 1"=50'
Vert. 1"=5%

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SUPERELEVATION DIAGRAM

INTERSTATE ROUTE H-3
TEMPORARY CONNECTOR
FAI PROJECT NO. I-H3-1(50)

Scale: As Shown Date: FEB. 1989

SHEET No. 1 OF 1 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	"
DESIGNED BY	"
NOTED BY	"
QUANTITIES BY	"
CHECKED BY	"
No.	

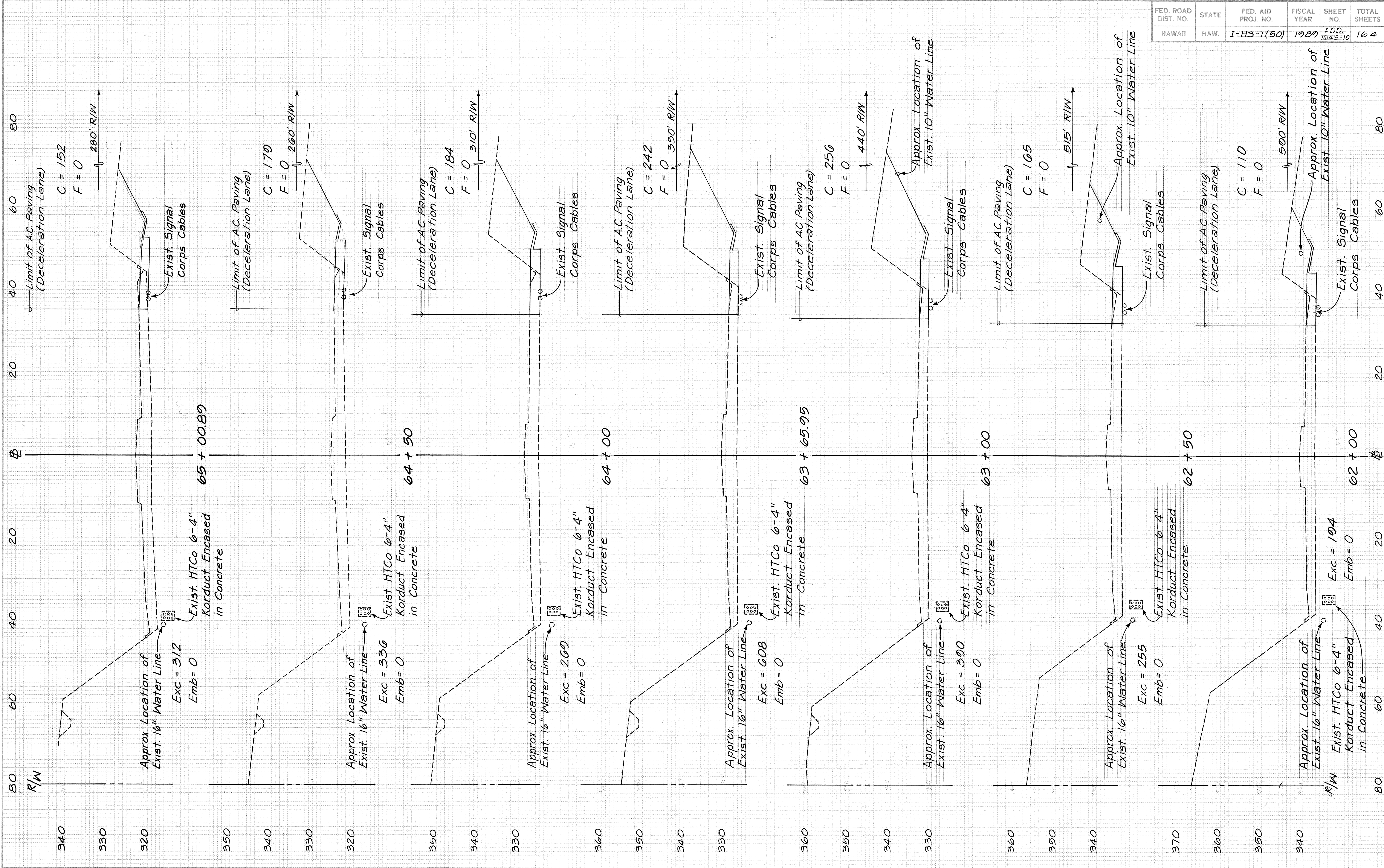
ORIGINAL SURVEY	SURVEYED _____ BY _____ DATE _____
	PLOTTED _____
NOTE BOOK	TEMPLATE _____
	AREAS _____
NO _____	AREAS CHECKED _____

ADD.164S-9

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
NO.		

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
NO.		

84732



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD. 164S-10	164

ADD.164S-10

DATE	BY	FINAL SURVEY	PLOTTED	NOTE BOOK	NO.

DATE	BY	ORIGINAL SURVEY	PLOTTED	NOTE BOOK	NO.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1987	ADD. 164S-11	164

60 80

Exc = 0
Emb = 0,012

C = 0
F = 1,042

Exc = 0
Emb = 1,601

C = 0
F = 530

Exc = 0
Emb = 614

C = 0
F = 2,867

Exc = 0
Emb = 5,676

C = 0
F = 73

Exc = 186
Emb = 74

C = 201
F = 0

C = 0
F = 2,704

Exc = 0
Emb = 4,496

C = 727
F = 0

Exc = 505
Emb = 0

C = 0
F = 1,710

Exc = 0
Emb = 2,803

C = 438
F = 0

ADD.164S-11

94732

80

60

40

20

0

20

40

60

40

20

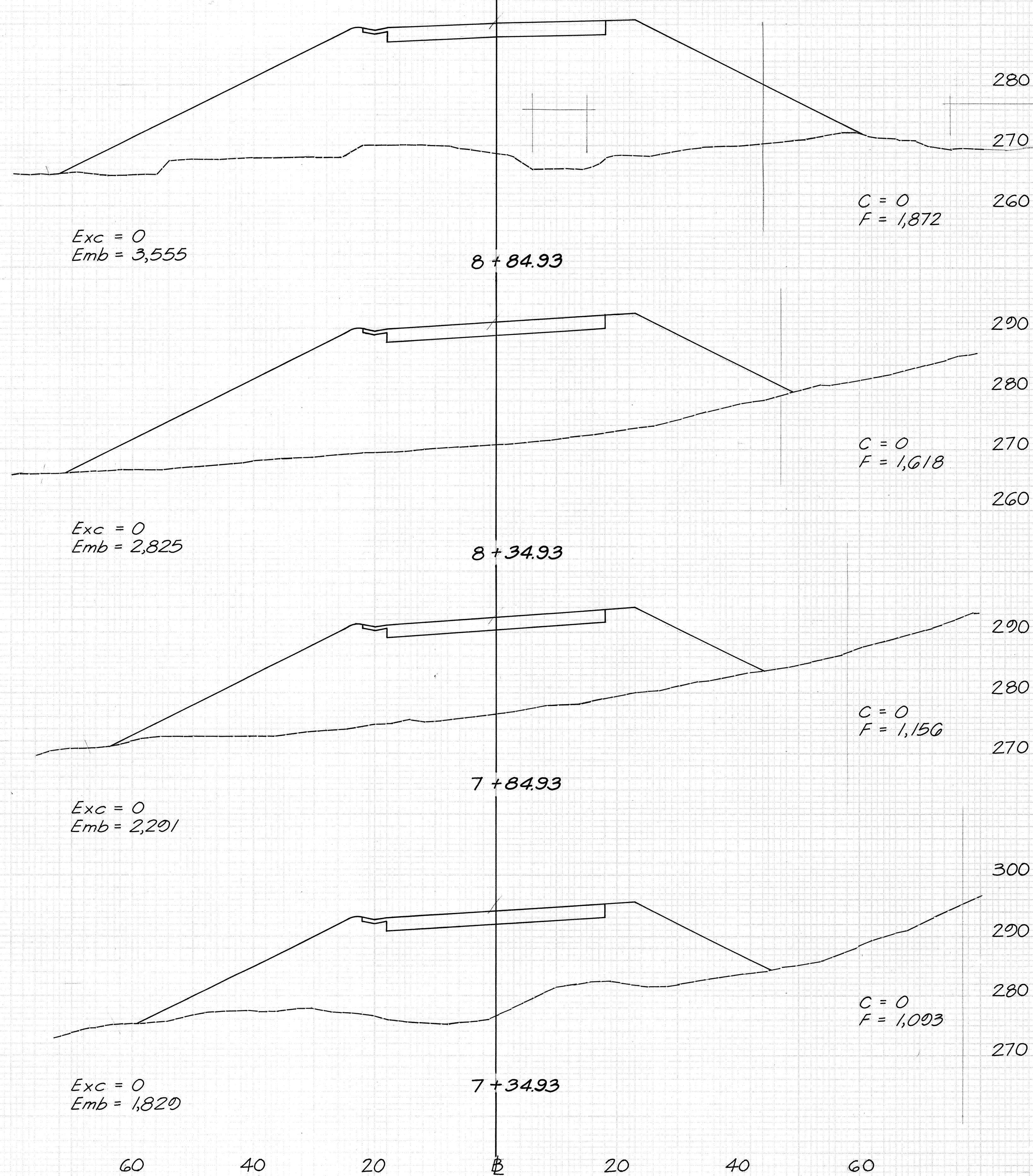
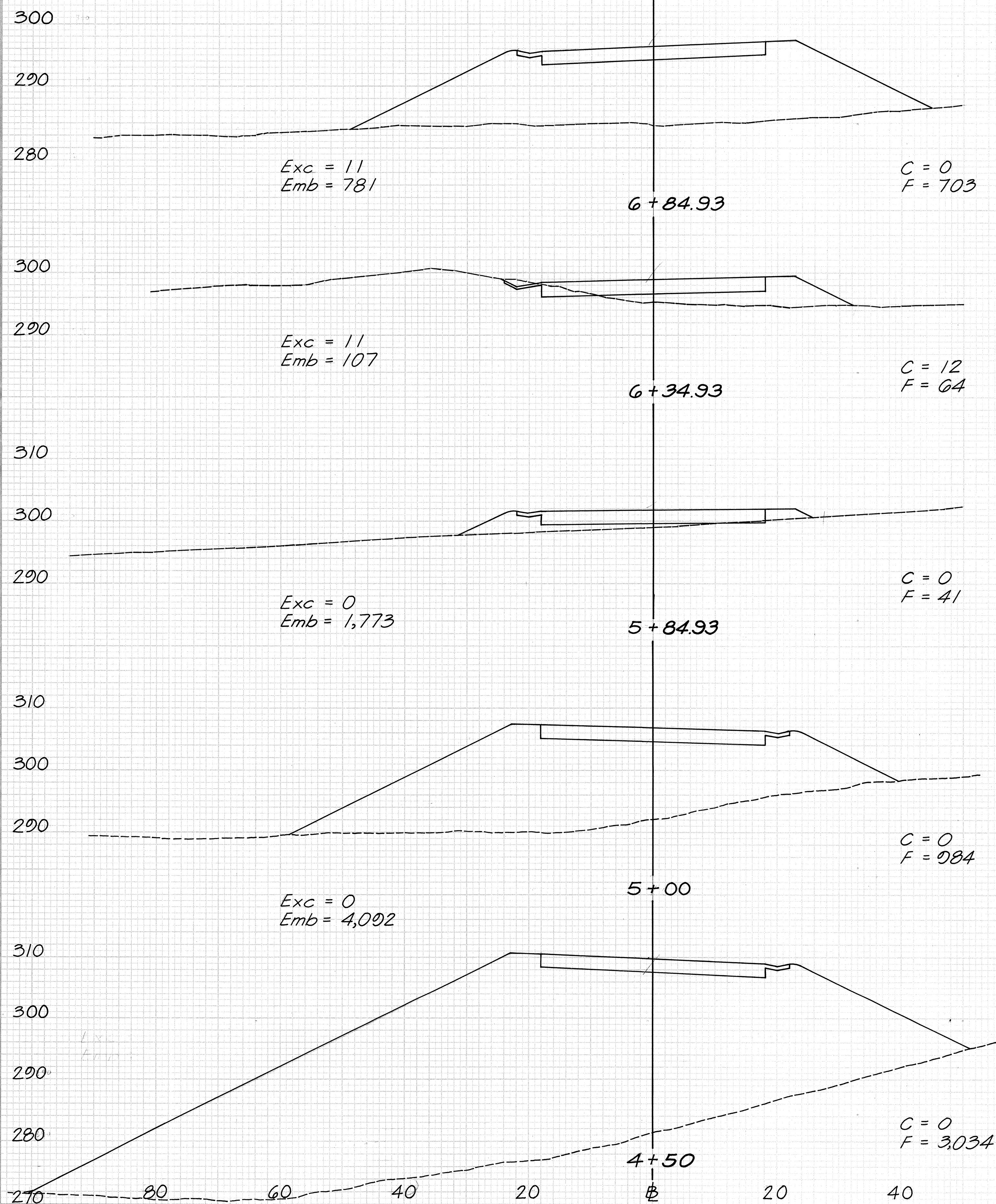
0

20

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD. 1645-12	164

40

60



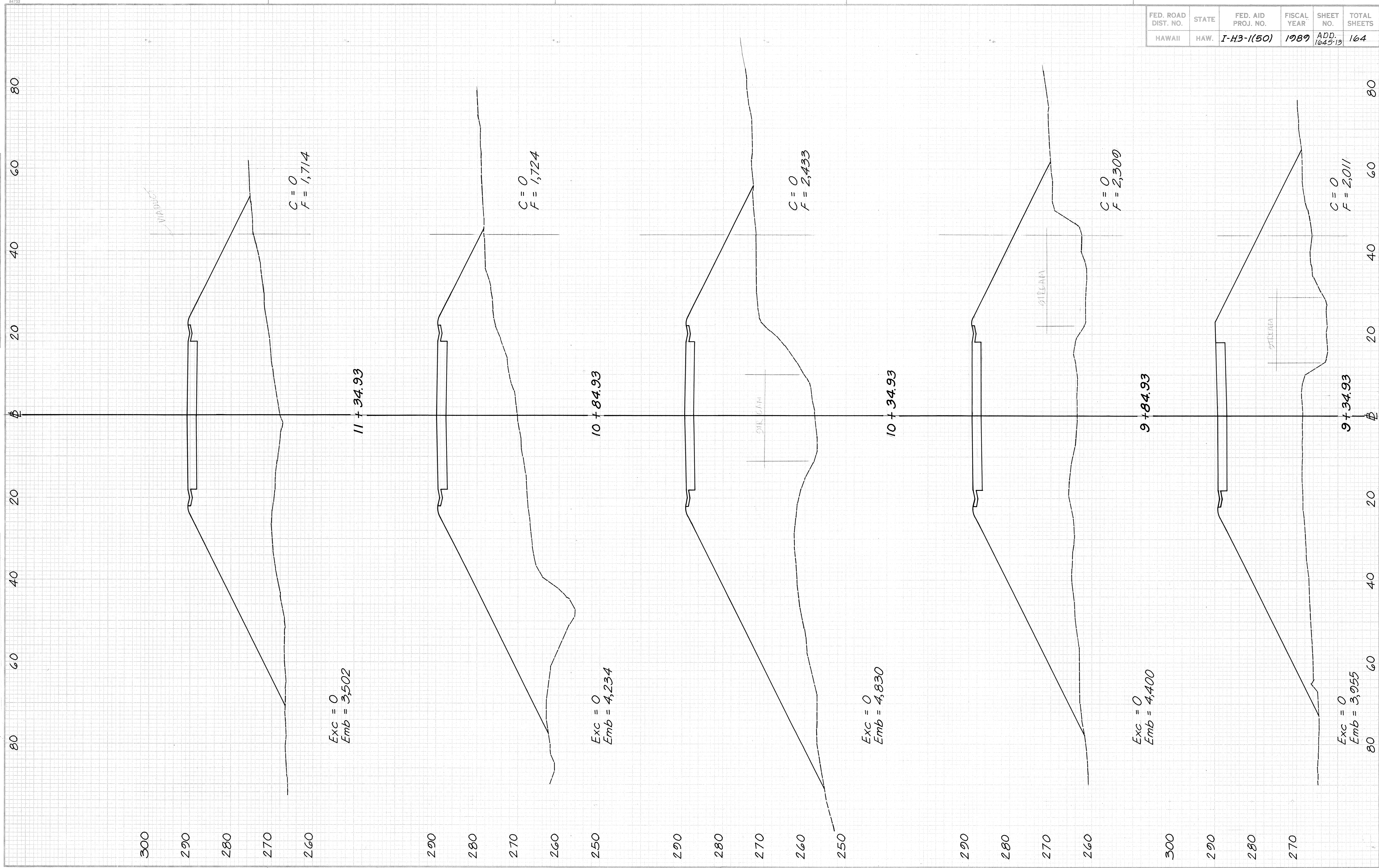
DATE	BY
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMP.
	AREAS CHECKED

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

ADD.164S-12

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

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



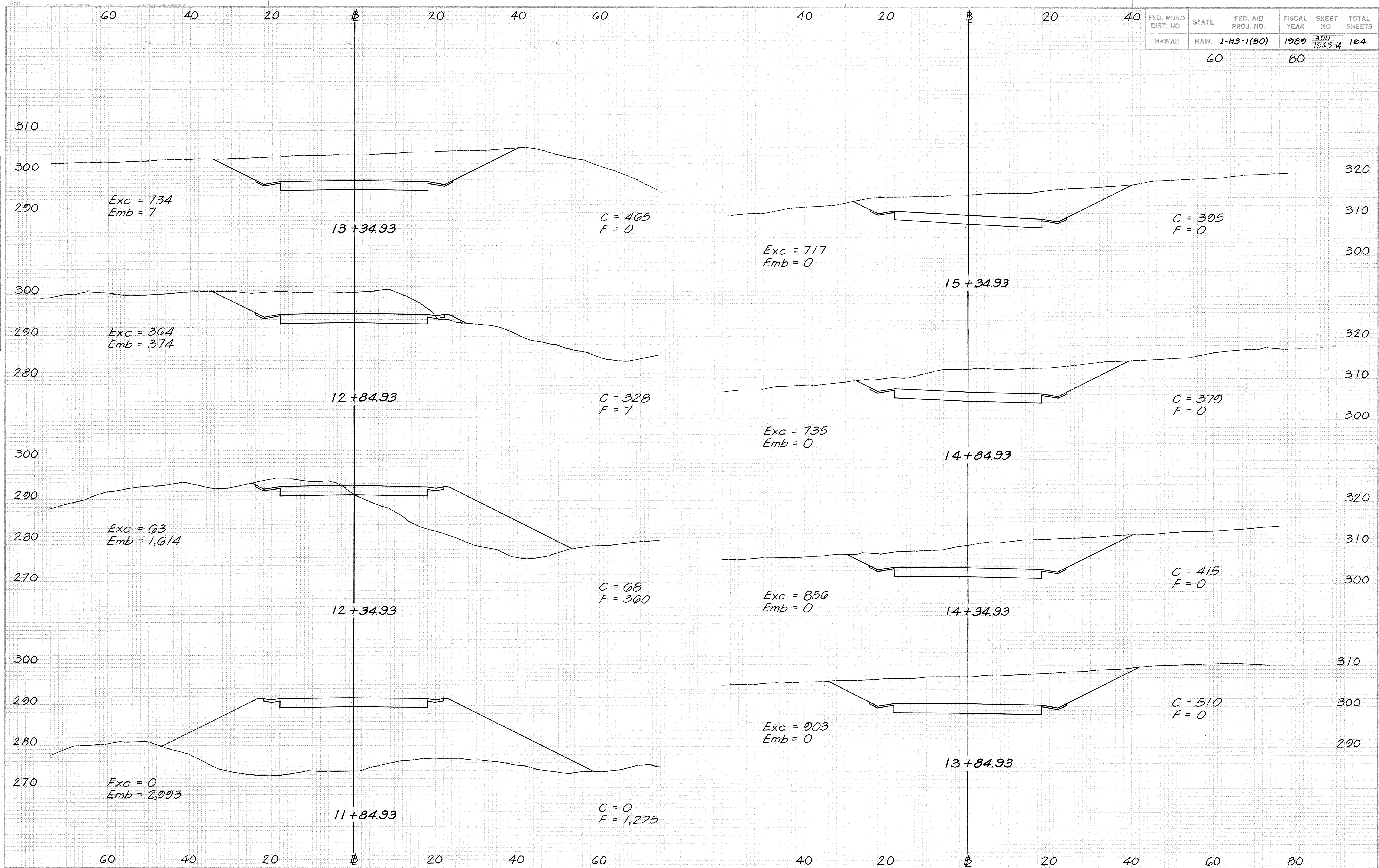
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD. 164S-13	164

ADD.164S-13

9+34.93 To 11+34.93 ADD.164S-5

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

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



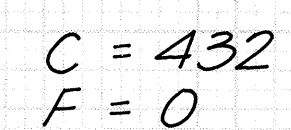
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1980	ADD. 164S-14	164

60 80

ADD.164S-14

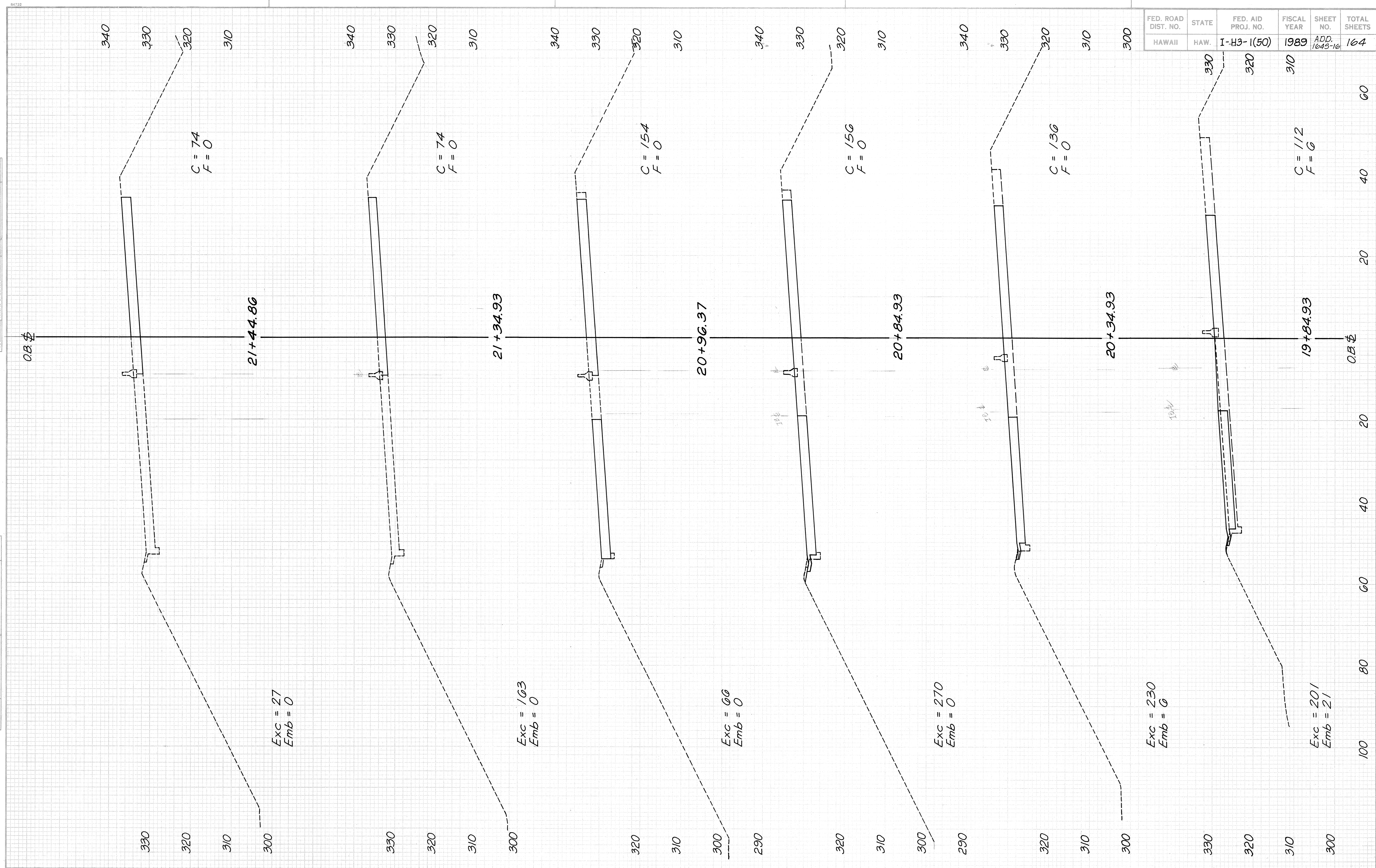
11+84.93 15+34.93 ADD.164S-14

40 60



15+84.93 To 19+34.93 100.161 4.7

ORIGINAL			
SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
NO	AREAS CHECKED		



ADD.164S-16

STA. 19+84.93 TO 21+44.86 AND 16

DRAINAGE SUMMARY

PROJECT: INTERSTATE ROUTE H-3 (TEMPORARY CONNECTOR)
F.A.I. PROJECT NO.: I-H3-I(50)

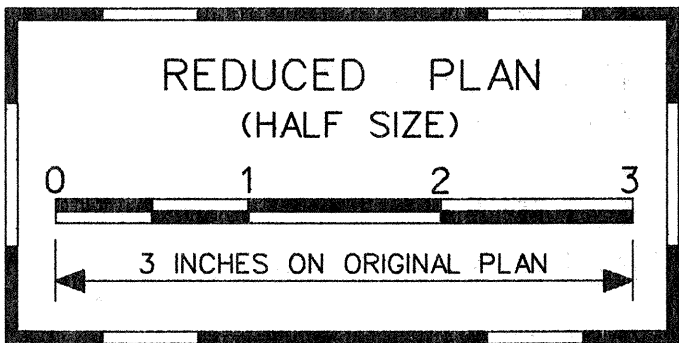
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-I(50)	1991	COADD. 164S-17	164

ITEM NO.		203.	206.	503.	602.	603.	603.	603.	603.	604.	604.	604.	604.	604.	612.
		0210	1000	0010	1000	6915	6917	6919	6928	5052	5054	5056	5063	5068	0200
UNIT USED		C.Y.	C.Y.	C.Y.	L.B.	L.F.	L.F.	L.F.	L.F.	EA.	EA.	EA.	EA.	EA.	C.Y.
STRUCTURE	STATION														
		Imprated Borrow	Structure Excavation Other Than at Bridges	Class A Concrete Other Than In Bridges	Reinforcing Steel Other Than In Bridges	24-Inch CSP, Sht. "T" = 0.079" or 24-Inch CAP, Sht. "T" = 0.075" or 24-Inch RCP, Cl. III	36-Inch CSP, Sht. "T" = 0.079" or 36-Inch CAP, Sht. "T" = 0.075" or 36-Inch RCP, Cl. III	48-Inch CSP, Sht. "T" = 0.079" or 48-Inch CAP, Sht. "T" = 0.075" or 48-Inch RCP, Cl. III	108-Inch CSP (3x1) Sht. "T" = 0.109" or 108-Inch CAP (3x1) Sht. "T" = 0.135"	Type 61214 Grated Drop Inlet, 350 Ft. to 4.49 Ft.	Type 61214 Grated Drop Inlet, 450 Ft. to 5.49 Ft.	Type 61214 Grated Drop Inlet, 6.50 Ft. to 7.49 Ft.	Type 61614 Grated Drop Inlet, 4.50 Ft. to 5.49 Ft.	Type 61614 Grated Drop Inlet, 8.50 Ft. to 9.49 Ft.	GRP Slope Protection
Type 61214 GDI	± (L) Sta. 63+80 Rt.		140			186				1					
Type 61214 GDI	± (T.C.) Sta. 0+60 Rt.		115			188			1						
Type 61614 GDI Concrete Headwall	± (T.C.) Sta. 2+50		16	1.0	30	24							1		
2-Std. Concrete Headwall	± (T.C.) Sta. 4+16		130	7.0	60		146								
Type 61614 GDI Concrete Headwall	± (T.C.) Sta. 5+35 Rt.		14	2.0	45	12						1			
2-Std. Concrete Headwalls	± (T.C.) Sta. 7+29.5		110	7.0	60		123								
Type 61614 GDI	± (T.C.) Sta. 8+00 Lt.		145			193						1			
Standard Inlet Structure and Modified Outlet Structure	± (T.C.) Sta. 8+75	285	590	42.0	3700				288						64
Type 61614 GDI	± (T.C.) Sta. 9+95 Rt.		29			38						1			
Type 61614 GDI Concrete Headwall	± (T.C.) Sta. 9+95 Lt.		250	3.5	65	253	58					1			
2-Std. Concrete Headwall	± (T.C.) Sta. 11+22		240	11.0	80			172							
Type 61614 GDI	± (T.C.) Sta. 12+50 Rt.		27			38						1			
Type 61214 GDI	± (T.C.) Sta. 12+50 Lt.		210			248				1					
Type 61214 GDI	± (T.C.) Sta. 15+00 Rt.									1					
Type 61214 GDI	± (T.C.) Sta. 15+00 Lt.		32			38					1				
Type 61614 GDI Concrete Headwall	I.B.B.(T.C.)Sta.19+50 Lt.		120	1.0	45	156						1			

ABBREVIATIONS	
CAP	Corrugated Aluminum Pipe
CSP	Corrugated Steel Pipe
RCP	Reinforced Concrete Pipe

ITEM NO.		609.	609.	609.
		2216	2218	2614
UNIT USED		L.F.	L.F.	L.F.
STATION				
FROM	TO	Gutter, Type 2161216)	Gutter, Type 2161218)	Gutter, Type 2161214)
± (L)Sta. 59+5.03 Rt.	± (L) Sta. 63+80 Rt.		457	
± (L) Sta. 63+62 Rt.	± (T.C.) Sta. 0+60 Rt.	275		
± (L) Sta. 67+04 Rt.	± (T.C.) Sta. 2+50			180
± (T.C.) Sta. 1+23 Rt.	± (T.C.) Sta. 4+16			412
± (T.C.) Sta. 9+40 Rt.	± (T.C.) Sta. 5+35 Rt.			355
± (T.C.) Sta. 12+95 Rt.	± (T.C.) Sta. 7+29.5	455		
± (T.C.) Sta. 17+50 Rt.	± (T.C.) Sta. 8+00 Lt.			185
± (T.C.) Sta. 5+70 Lt.	± (T.C.) Sta. 8+00 Lt.			660
± (T.C.) Sta. 12+30 Lt.	± (T.C.) Sta. 8+00 Lt.	675		
I.B. ± (T.C.) Sta. 19+05 Lt.	± (T.C.) Sta. 9+95 Rt.			136

DATE	DATE
DESIGNED BY	DESIGNED BY
NOTED BY	NOTED BY
CHECKED BY	CHECKED BY
DATE	DATE
DESIGNED BY	DESIGNED BY
NOTED BY	NOTED BY
CHECKED BY	CHECKED BY



1/16/91	Revised quantities for structures at ± (T.C.) Sta. 8+75
1/4/89	Sheet added to show details of Temporary Connector.

DATE	REVISION
------	----------

SHEET No. 11 OF 7 SHEETS

COADD.164S-17

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-3-1(50)	1989	ADD 164S-18	164

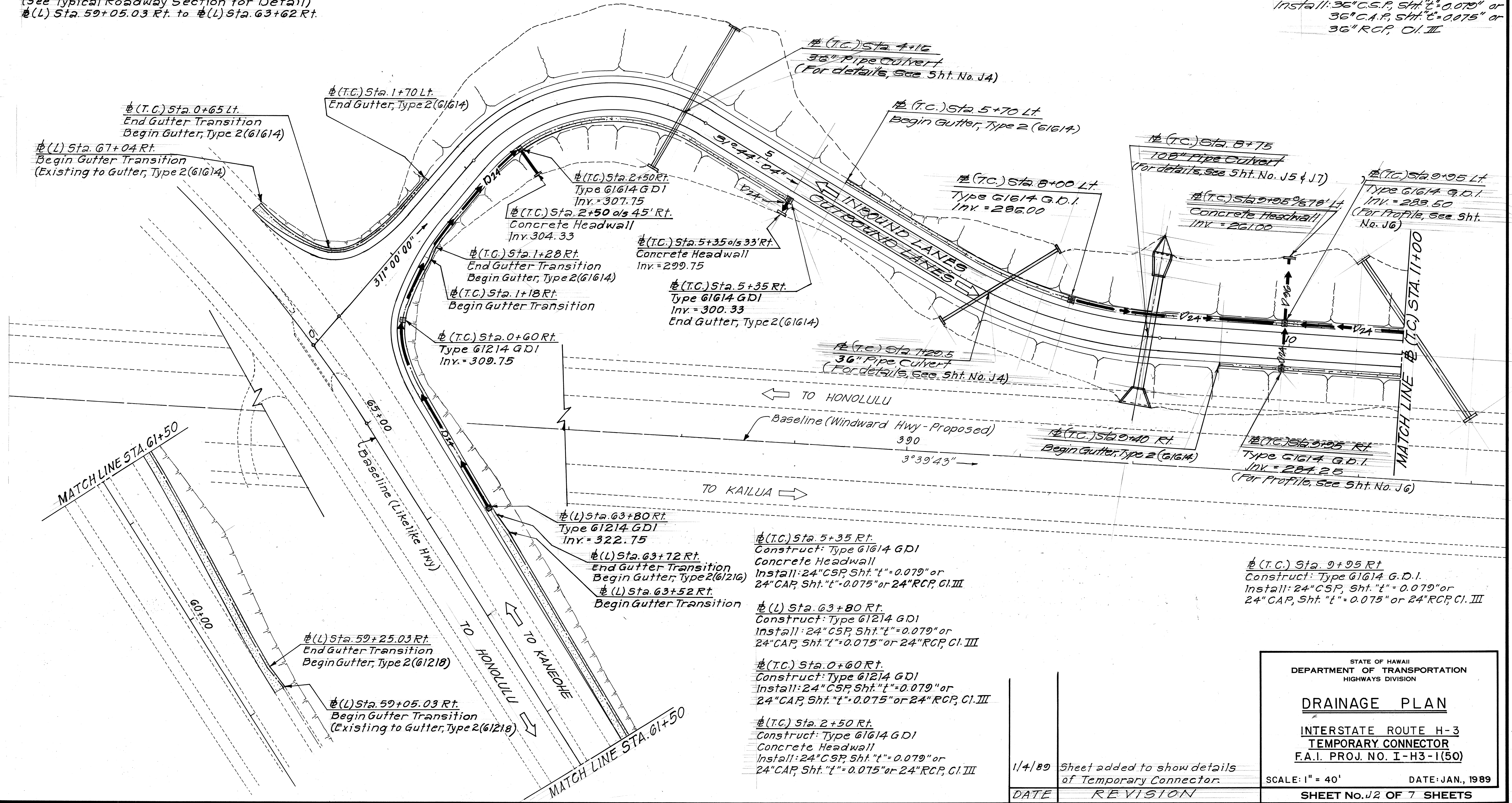
Construct: Gutter, Type 2(61614)
 (See Typical Roadway Section for Detail)
 # (T.C.) Sta. 5+70 Lt. to # (T.C.) Sta. 11+00 Lt.
 # (T.C.) Sta. 1+23 Rt. to # (T.C.) Sta. 5+35 Rt.
 # (T.C.) Sta. 9+40 Rt. to # (T.C.) Sta. 11+00 Rt.
 # (L) Sta. 67+04 Rt. to # (T.C.) Sta. 1+70 Lt.

Construct: Gutter, Type 2(61216)
 (See Typical Roadway Section for Detail)
 # (L) Sta. 63+62 Rt. to # (T.C.) Sta. 1+23 Rt.

Construct: Gutter, Type 2(61218)
 (See Typical Roadway Section for Detail)
 # (L) Sta. 59+05.03 Rt. to # (L) Sta. 63+62 Rt.

(T.C.) Sta. 8+00 Lt.
 Construct: Type 61614 G.D.I.
 Install: 24" C.S.P. Sht. "t" = 0.079" or
 24" C.A.P. Sht. "t" = 0.075" or
 24" RCP, C.I. III

(T.C.) Sta. 9+95 Lt.
 Construct: Type 61614 G.D.I.
 Concrete Headwall
 Install: 36" C.S.P. Sht. "t" = 0.079" or
 36" C.A.P. Sht. "t" = 0.075" or
 36" RCP, C.I. III



DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
CHECKED BY	_____
NO.	_____

1/4/89 Sheet added to show details of Temporary Connector.
 DATE REVISION

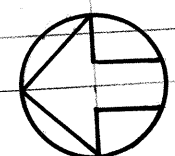
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

DRAINAGE PLAN

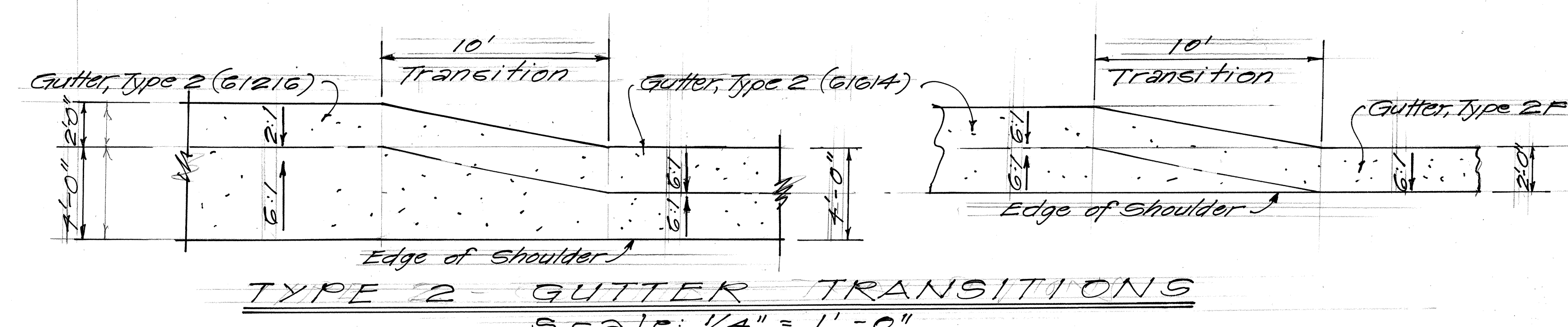
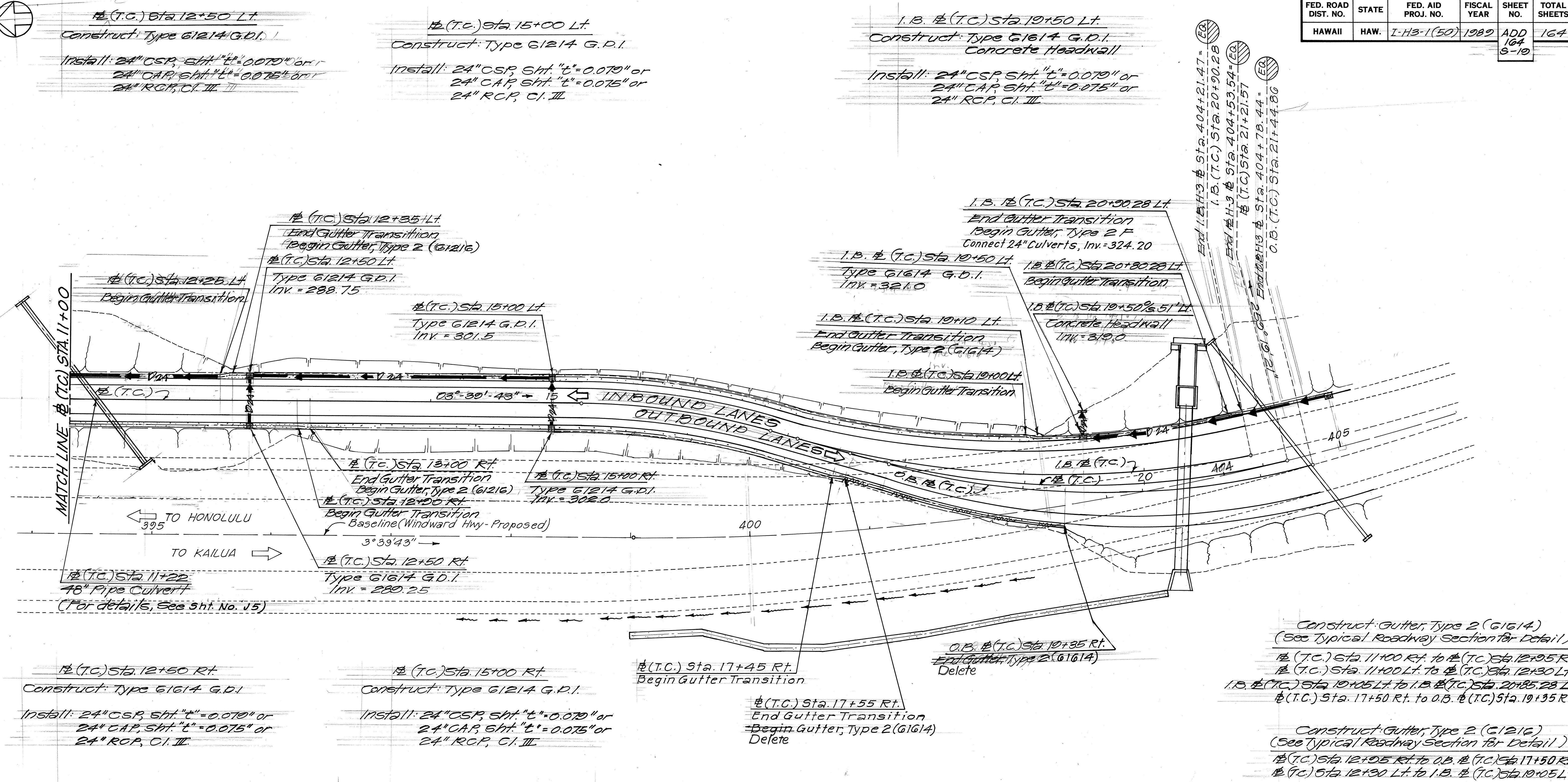
INTERSTATE ROUTE H-3
 TEMPORARY CONNECTOR
 F.A.I. PROJ. NO. I-H3-1(50)

SCALE: 1" = 40' DATE: JAN., 1989
 SHEET No. 12 OF 7 SHEETS

ADD.164S-18



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD 164 S-19	164



Construct: Gutter, Type 2 (G1614)
(See Typical Roadway Section for Detail.)

1.B. (T.C.) Sta. 11+00 Rt. to 1.B. (T.C.) Sta. 12+05 Rt.
1.B. (T.C.) Sta. 11+00 Lt. to 1.B. (T.C.) Sta. 12+30 Lt.
1.B. (T.C.) Sta. 10+05 Lt. to 1.B. (T.C.) Sta. 20+25 Lt.
1.B. (T.C.) Sta. 17+50 Rt. to O.B. (T.C.) Sta. 19+35 Rt.

Construct: Gutter, Type 2 (G1216)
(See Typical Roadway Section for Detail.)

1.B. (T.C.) Sta. 12+05 Rt. to O.B. (T.C.) Sta. 17+50 Rt.
1.B. (T.C.) Sta. 12+30 Lt. to 1.B. (T.C.) Sta. 10+05 Lt.

1/4/89 Sheet added to show details of Temporary Connector

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN

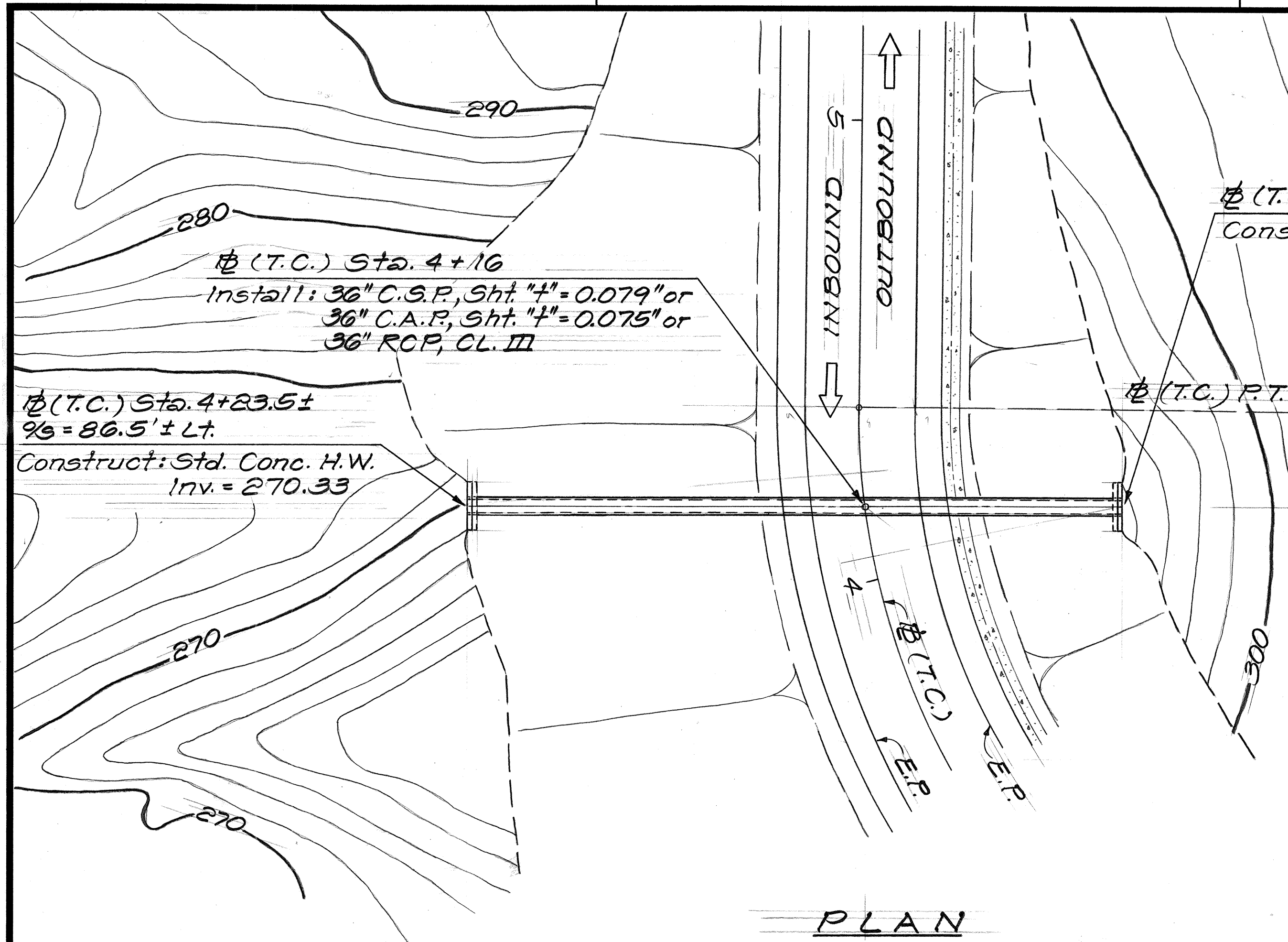
INTERSTATE ROUTE H-3
TEMPORARY CONNECTOR
F.A.I. PROJ. NO. I-H3-1(50)

SCALE: 1" = 40' DATE: JAN., 1989

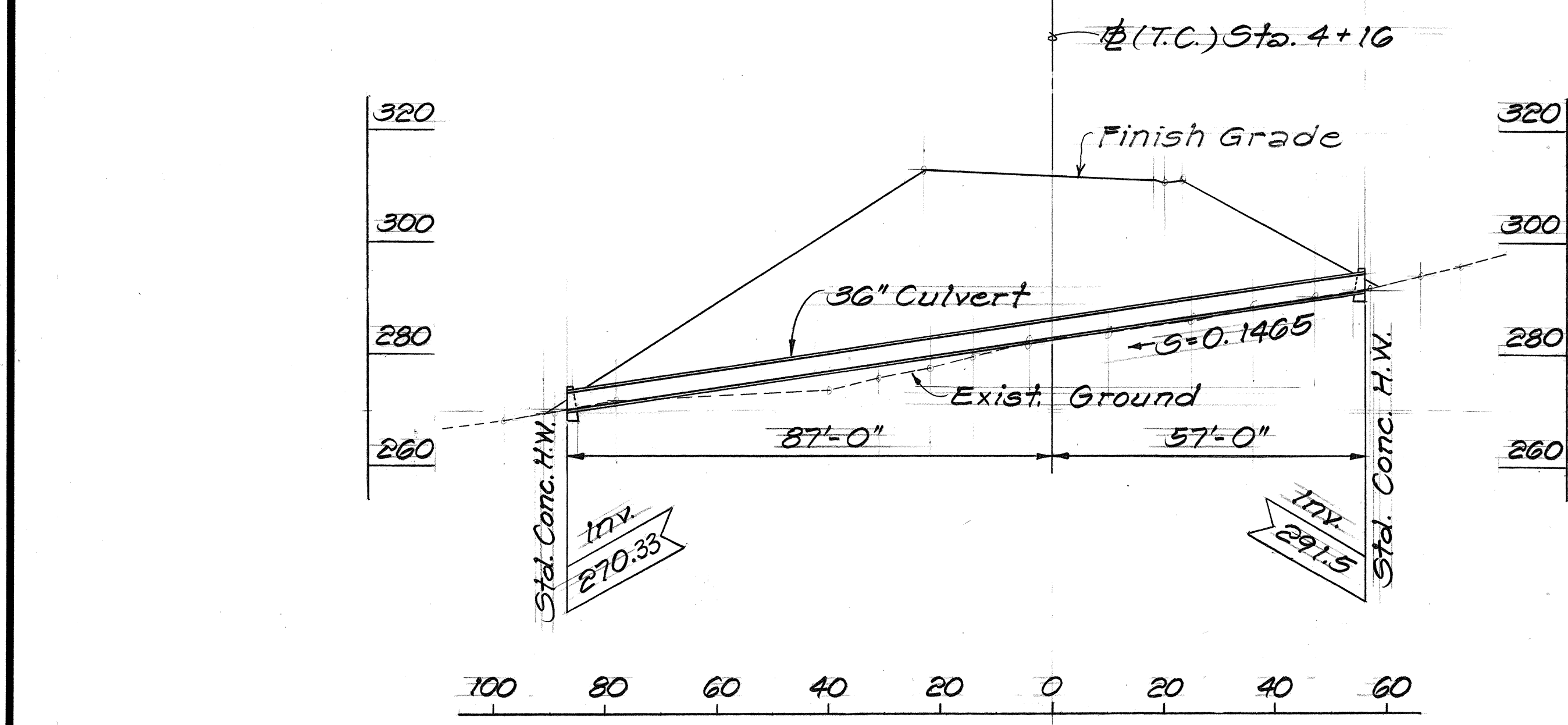
SHEET NO. 13 OF 7 SHEETS

ADD.164S-19

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1980	ADD. 164 S-20	164

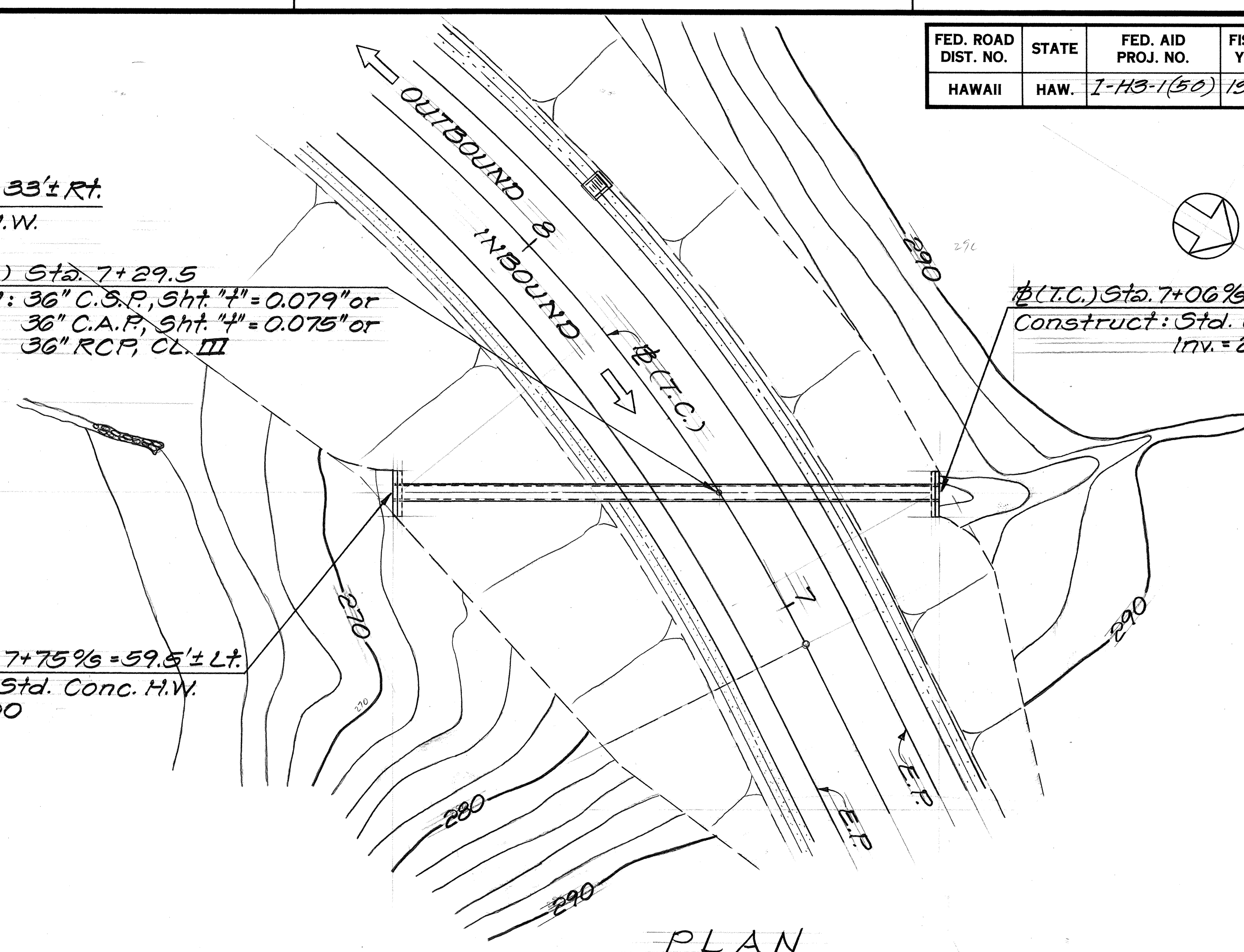


PLAN

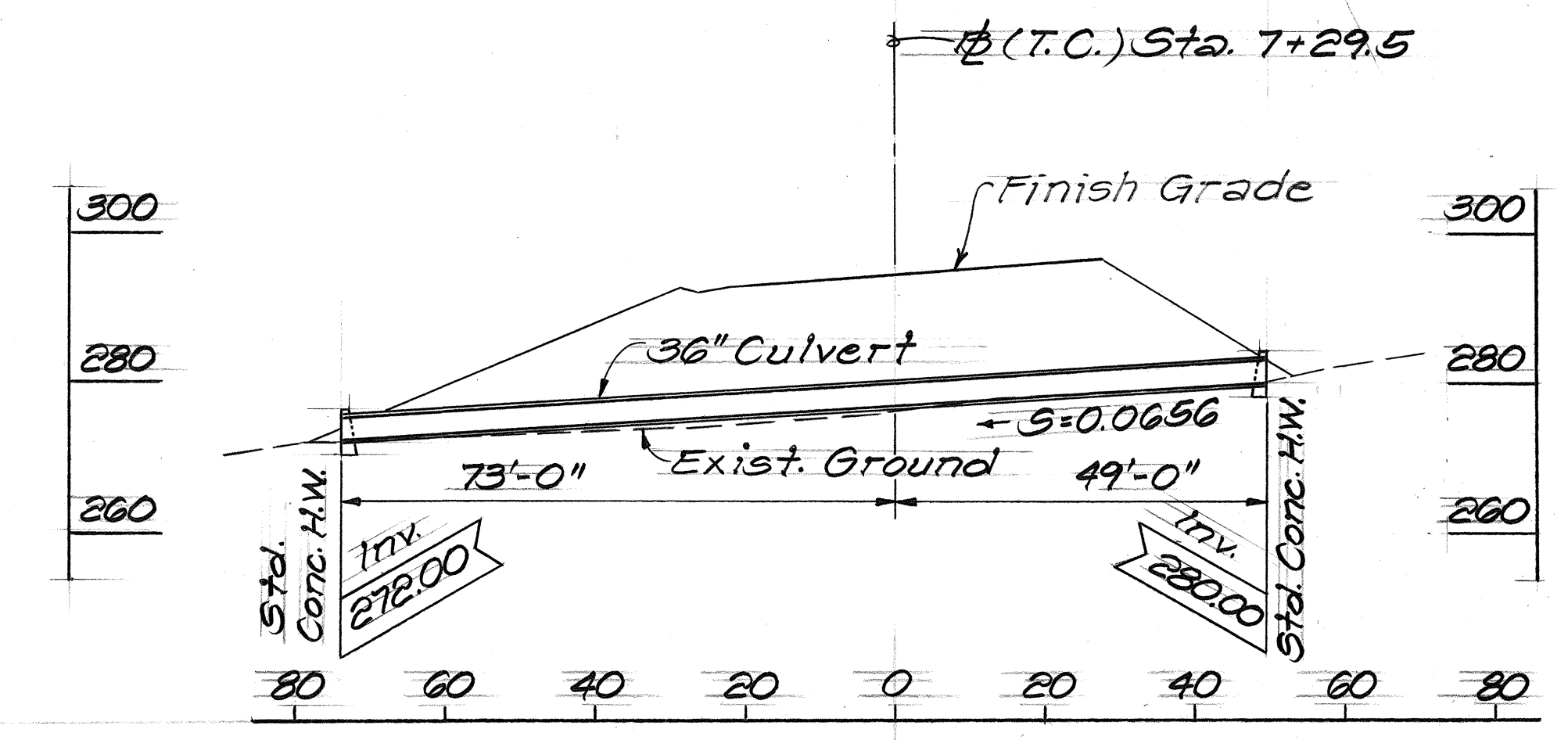


PROFILE

36" CULVERT AT (T.C.) STA. 4+16
Scale: 1" = 20'



PLAN



PROFILE

36" CULVERT AT (T.C.) STA. 7+29.5
Scale: 1" = 20'

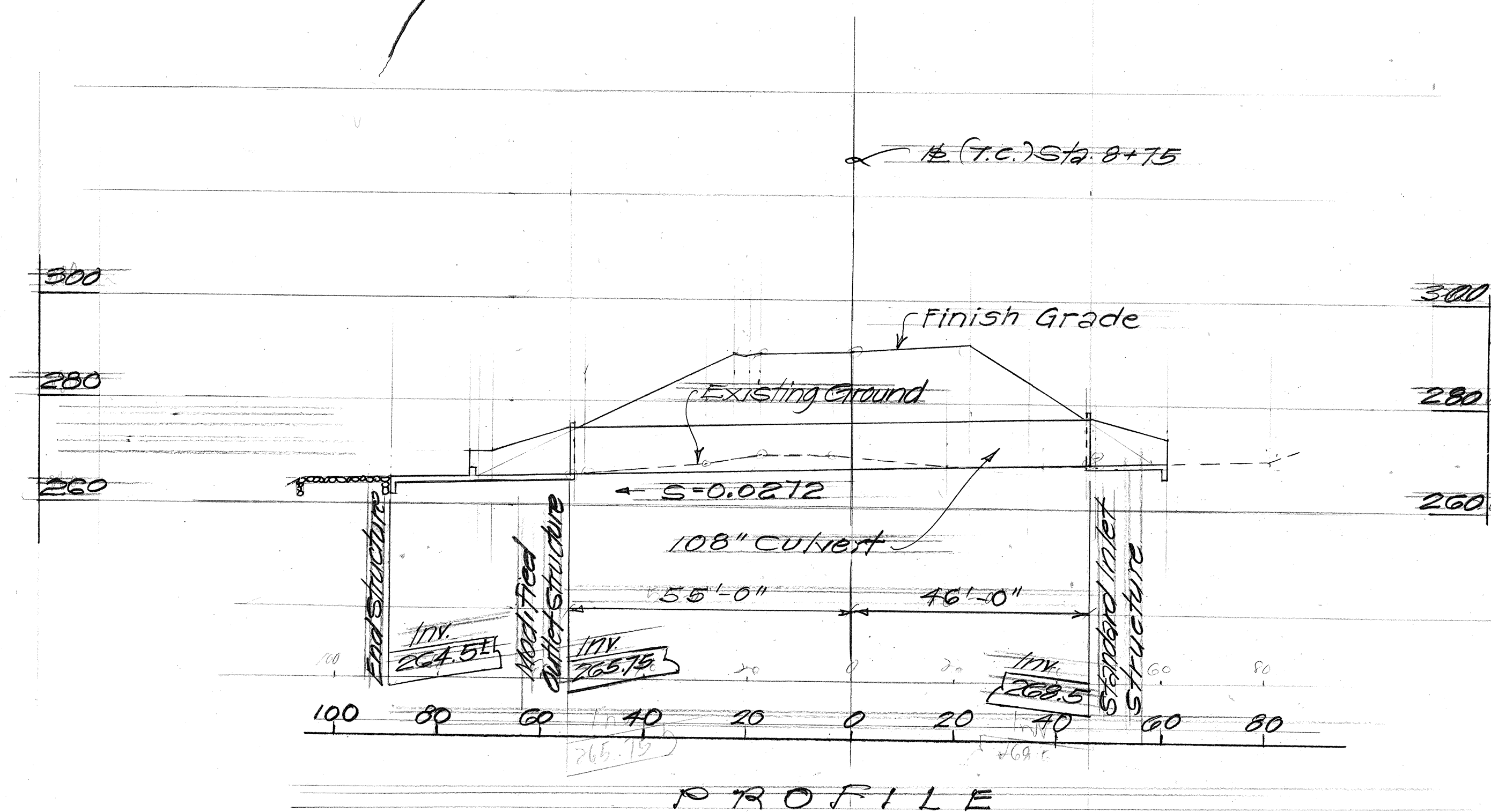
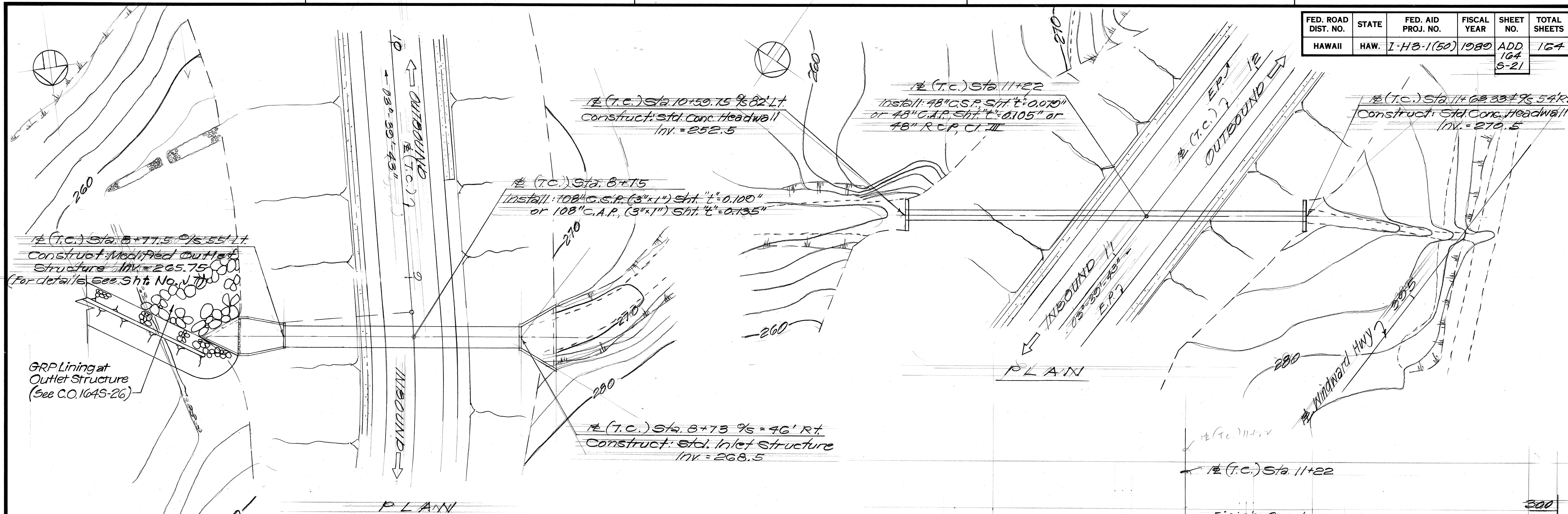
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRAINAGE DETAILS	
INTERSTATE ROUTE H-3 TEMPORARY CONNECTOR F.A.I. PROJ. NO. I-H3-1(50)	
SCALE: AS-NOTED	DATE: JAN., 1989
SHEET NO. 14 OF 7 SHEETS	

1/4/89	Sheet added to show details of Temporary Connector
DATE	REVISION

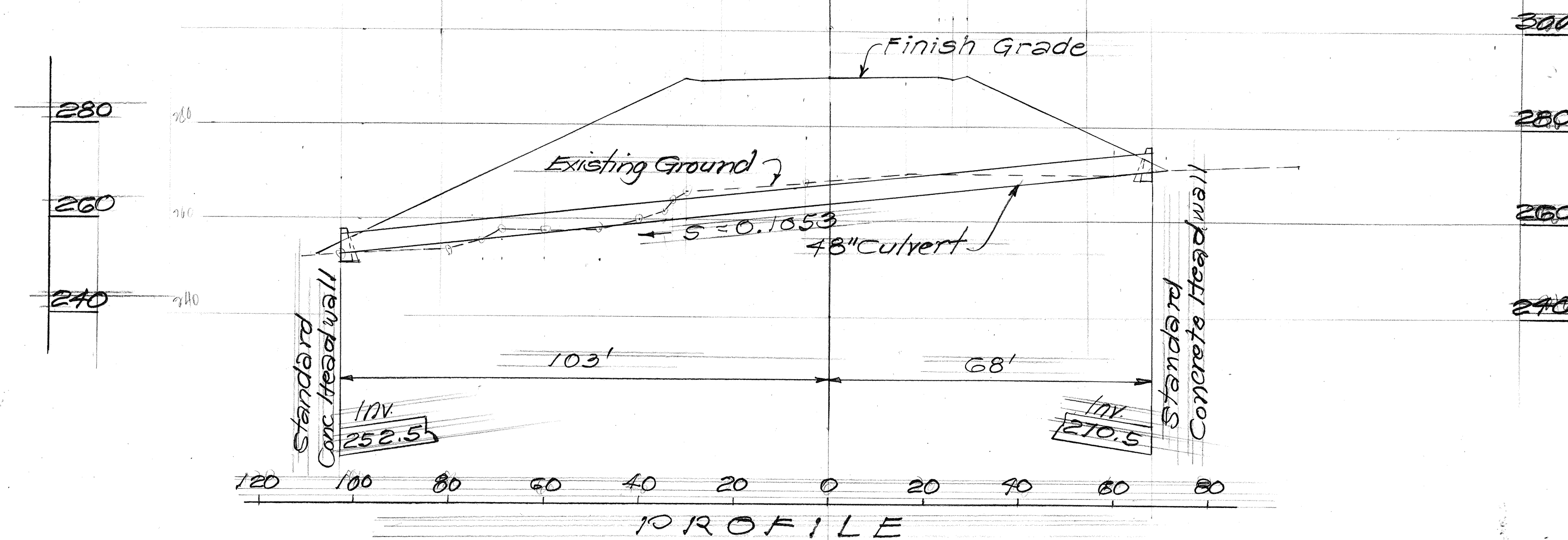
ADD.164S-20

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD. 164 S-21	164



108" CULVERT AT (T.C.) STA. 8+75
Scale: 1" = 20'



48" CULVERT AT (T.C.) STA. 11+22
Scale: 1" = 20'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

INTERSTATE ROUTE H-3
TEMPORARY CONNECTOR
F.A.I. PROJ. NO. I-H3-1(50)

SCALE: AS NOTED DATE: JAN., 1989

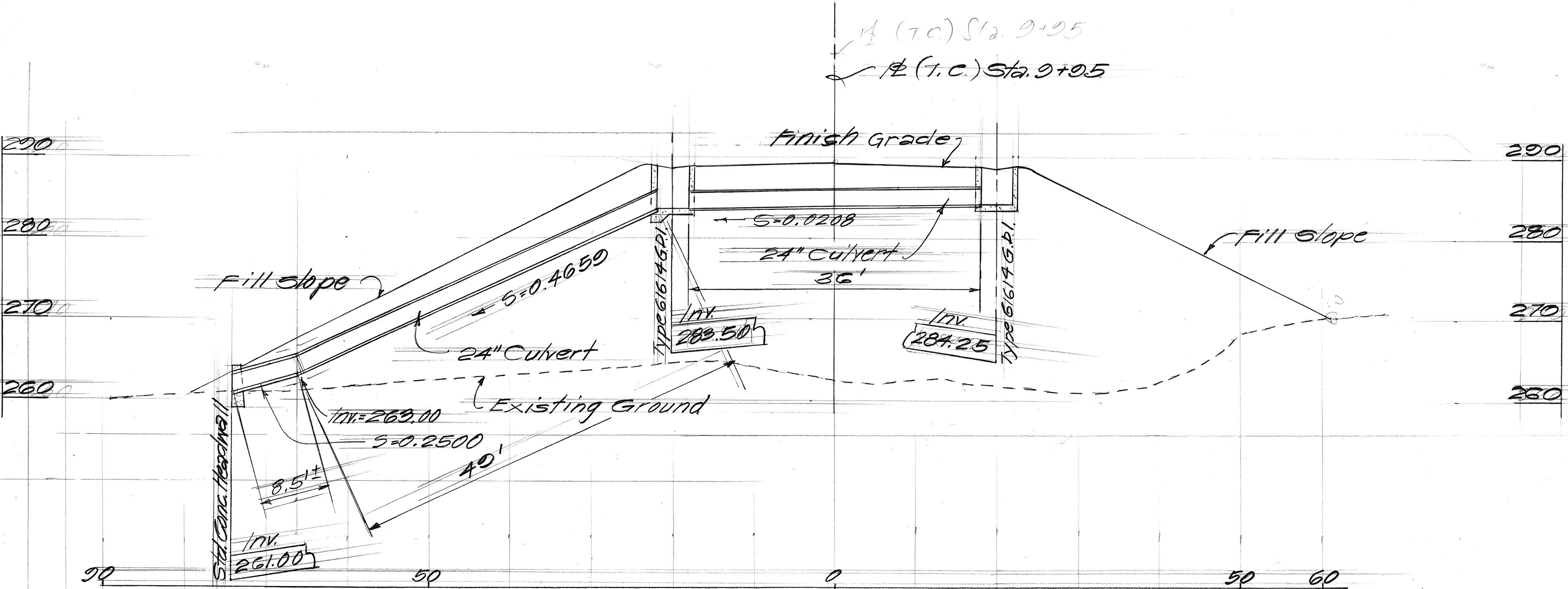
SHEET No. 15 OF 7 SHEETS

ADD.164S-21

1/4/89 Sheet added to show details of Temporary Connector
DATE REVISION

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD. 164S-22	164



PROFILE
Scale: Horiz. 1"=10'
Vert. 1"=10'

24" CULVERT AT (T.C.) STA. 9+95

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

INTERSTATE ROUTE H-3
TEMPORARY CONNECTOR
F.A.I. PROJ. NO. I-H3-1(50)

SCALE: AS NOTED
DATE: JAN., 1989

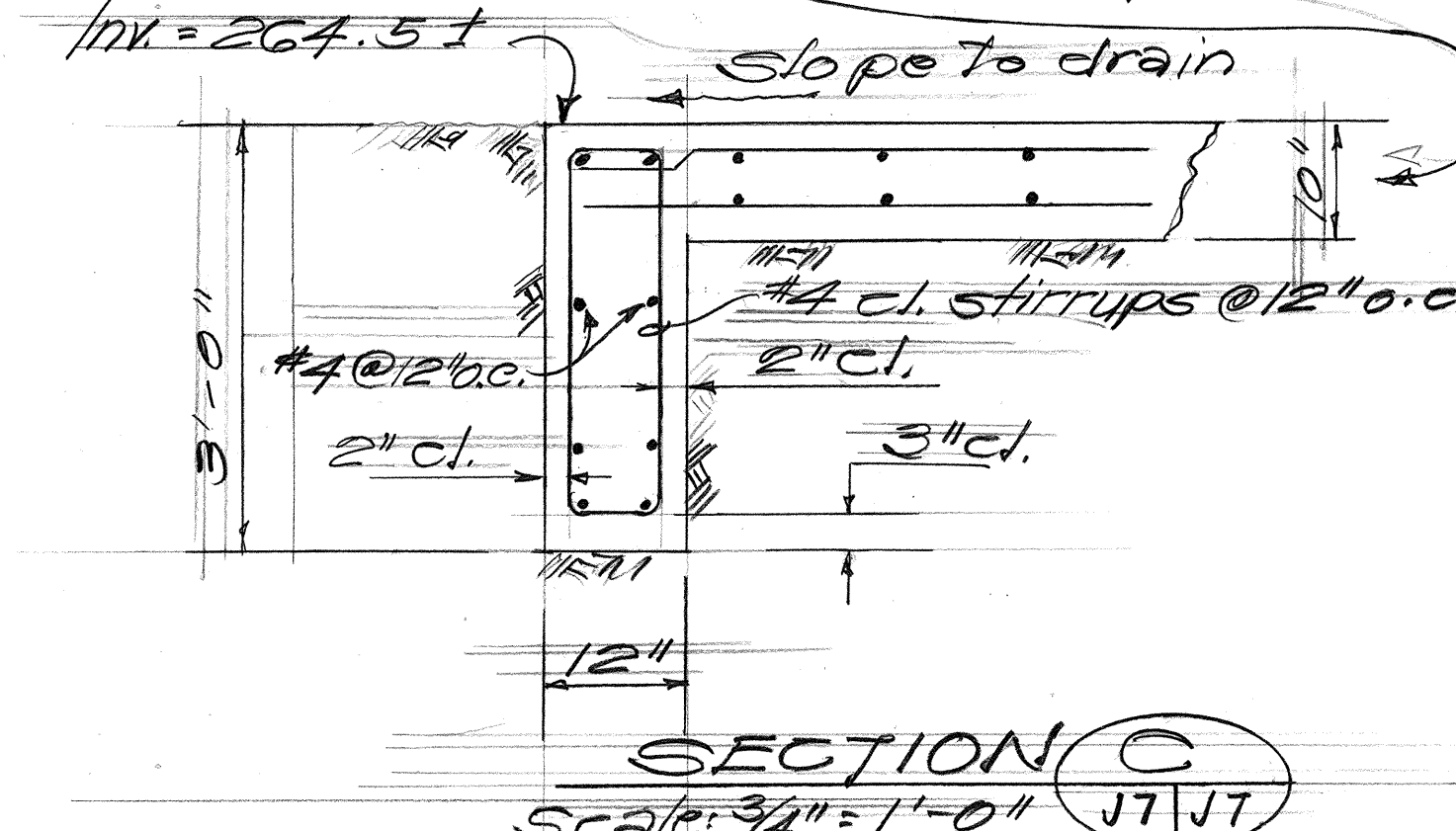
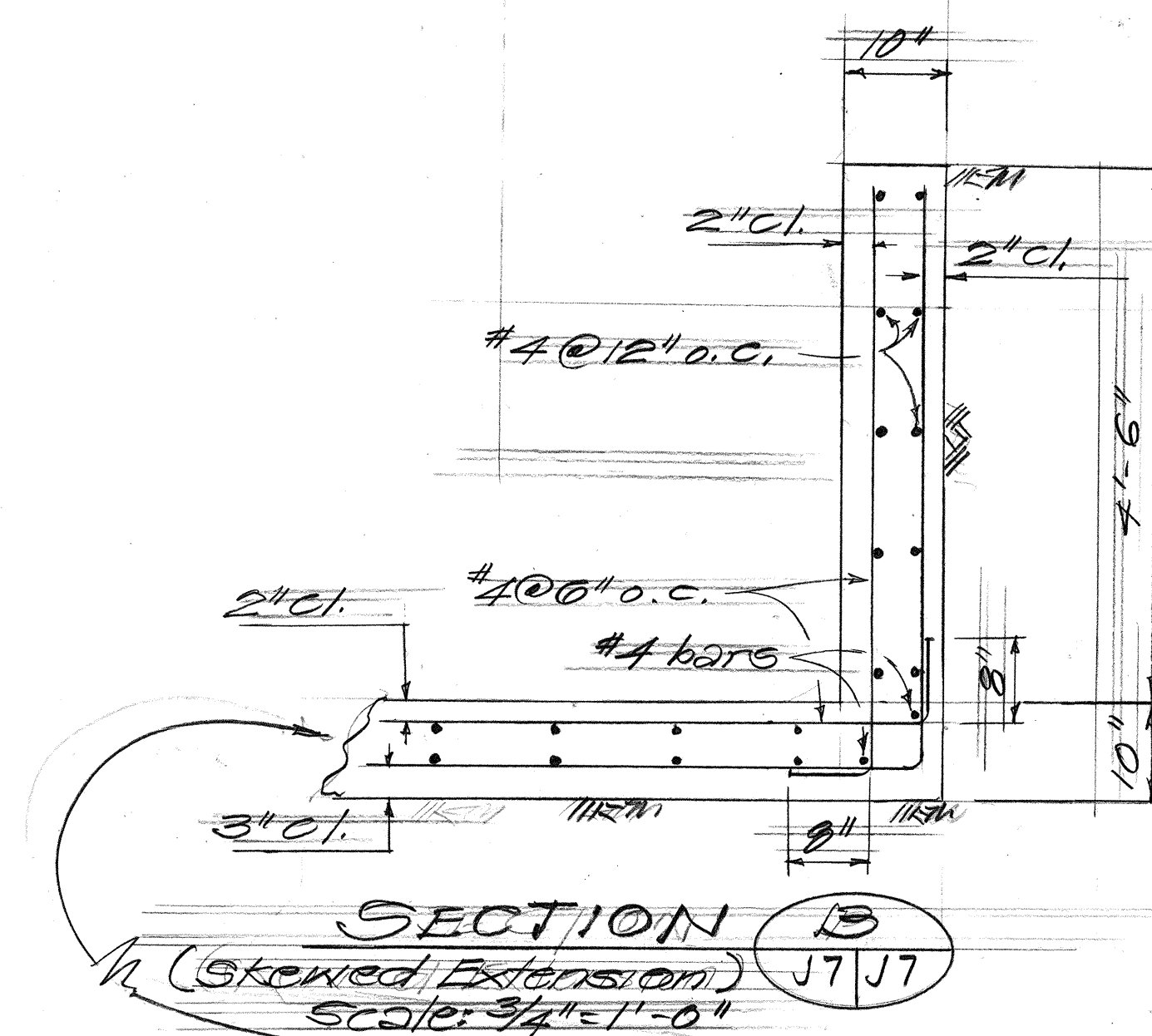
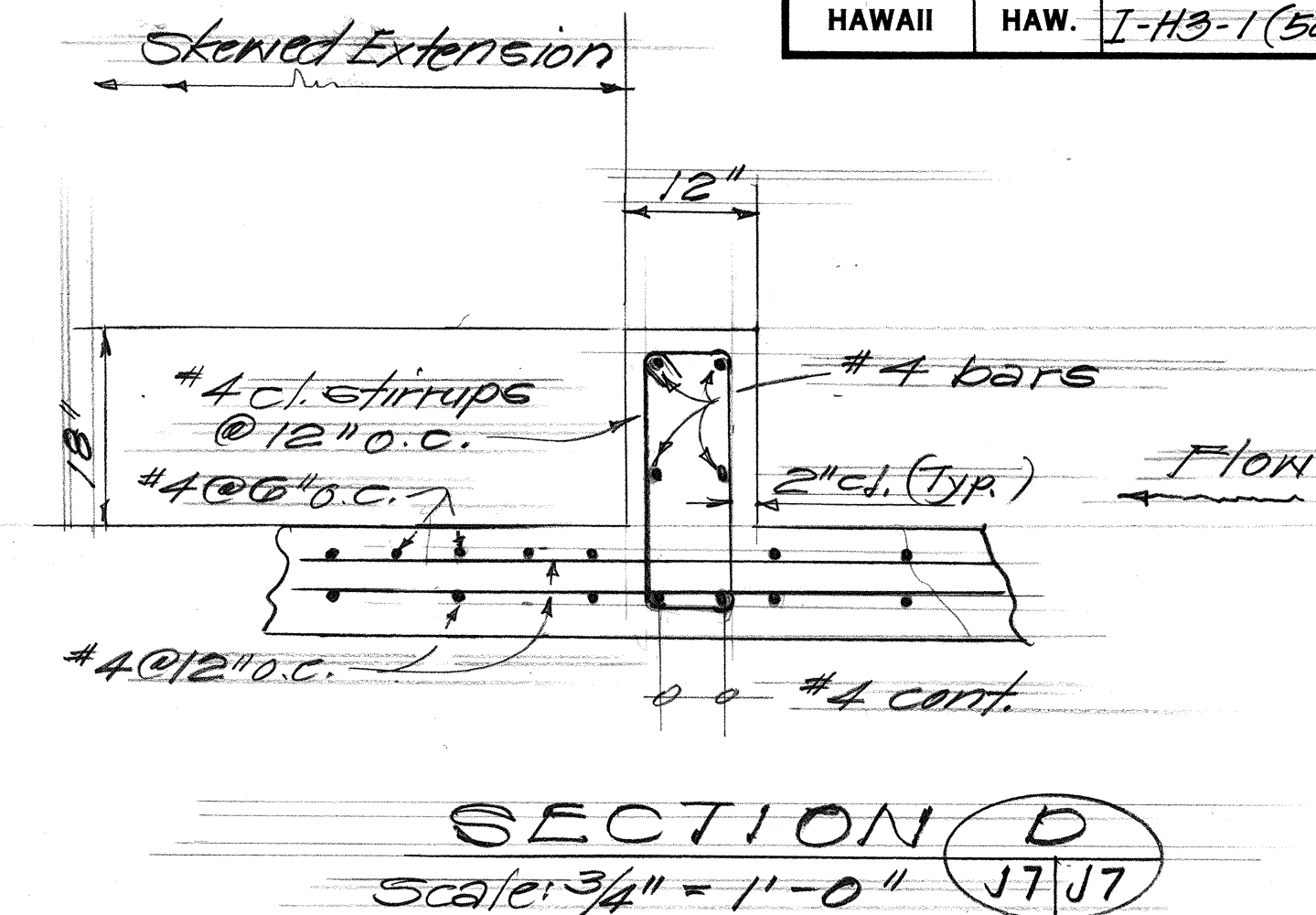
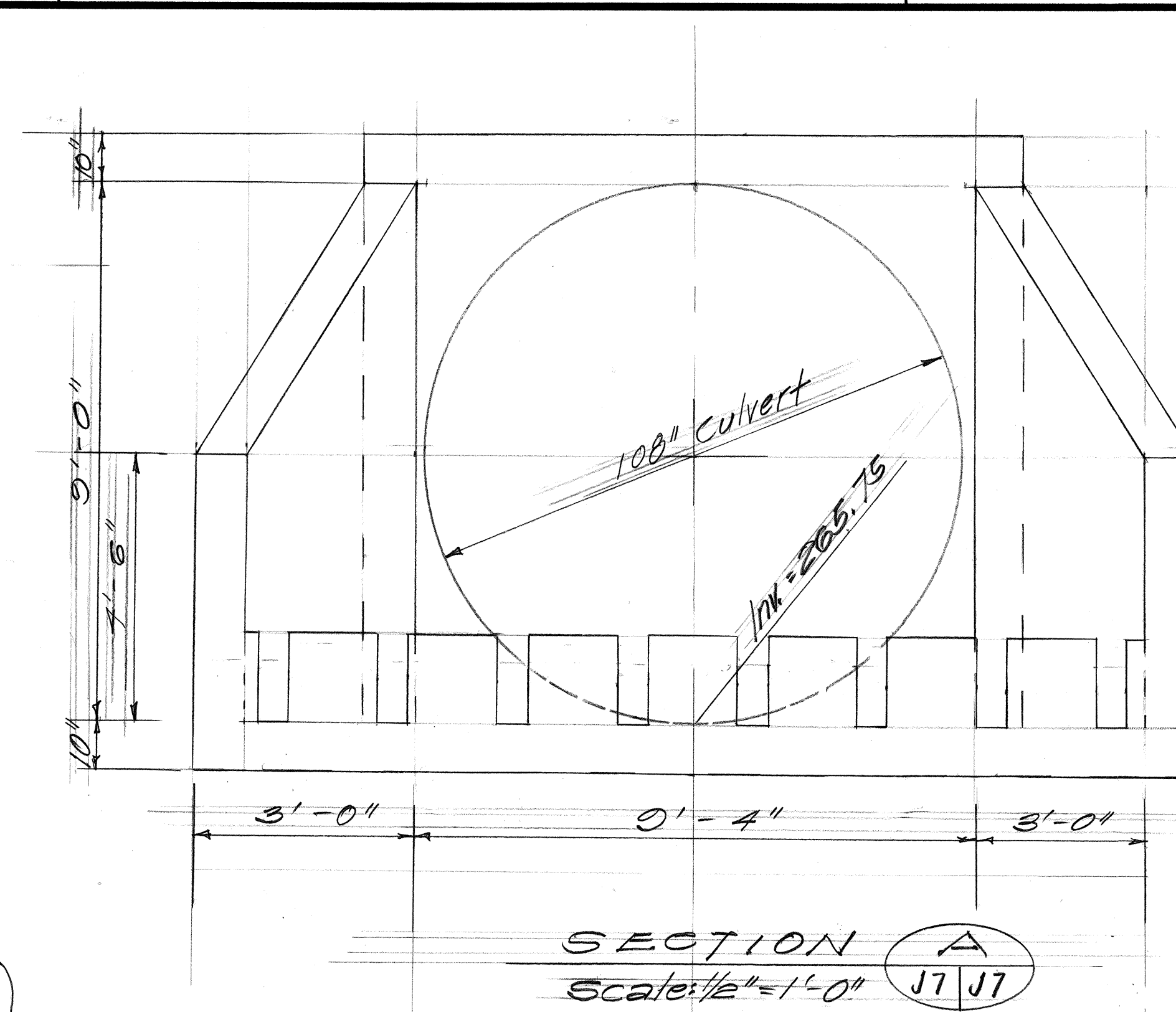
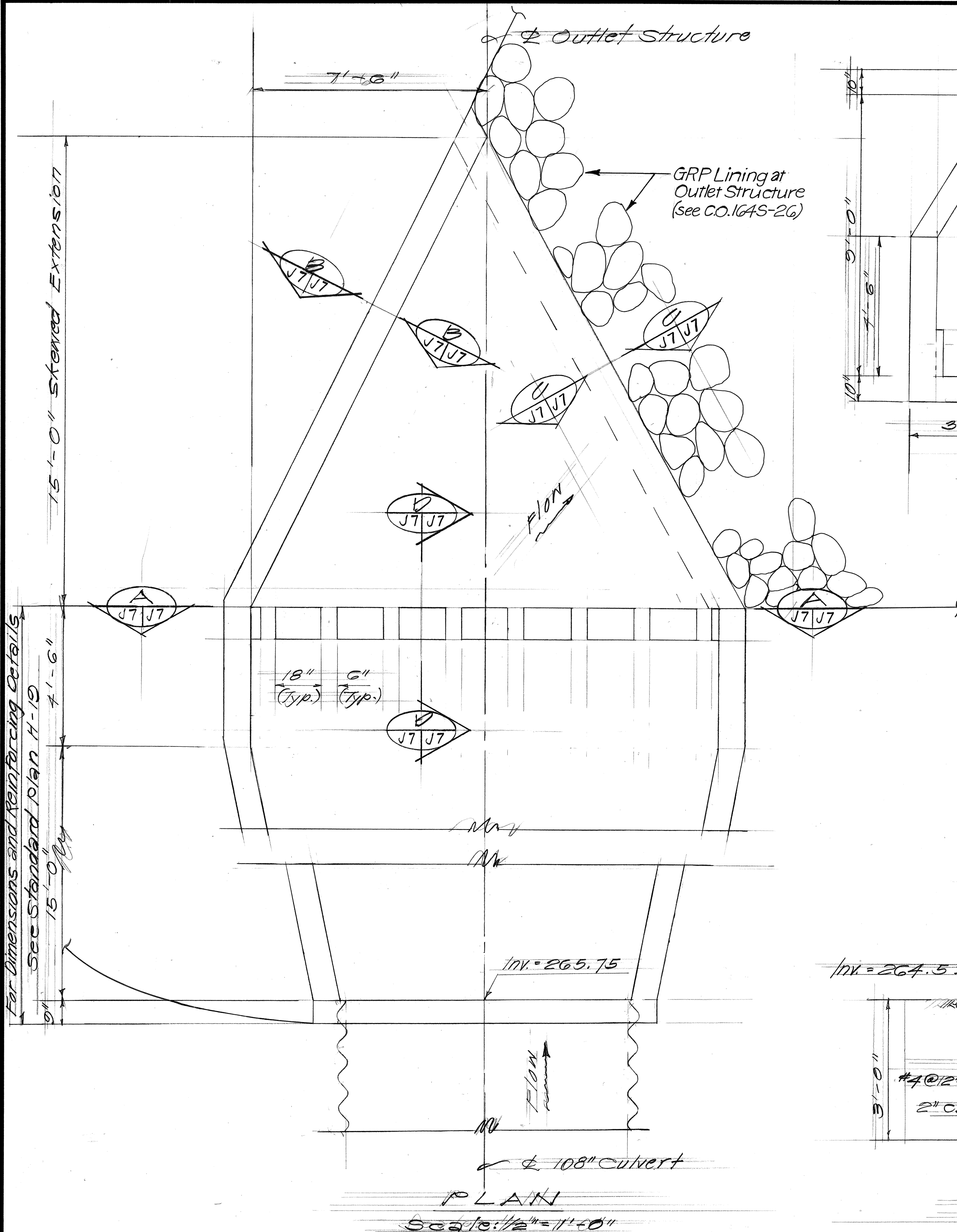
1/4/89	Sheet added to show details of Temporary Connector
DATE	REVISION

SHEET No. 164 OF 7 SHEETS

ADD.164S-22

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD. 164 5-23	164



DETAILS OF MODIFIED OUTLET AT (R.T.C.) STA. 8+77.5 9/6 55' LT.

1/4/89 Sheet added to show details of Temporary Connector
DATE REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRAINAGE DETAILS	
INTERSTATE ROUTE H-3 TEMPORARY CONNECTOR F.A.I. PROJ. NO. I-H3-1(50)	
SCALE: AS NOTED	DATE: JAN., 1989
SHEET NO. 17 OF 7 SHEETS	

ADD.164S-23

WATER NOTES

1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, dated 1985, as amended, of the Hawaii Highways Division, Department of Transportation and the City & County of Honolulu Board of Water Supply's "Water System Standards," Volume I, Dated 1985 and the "Approved Material List and Standard Details for Water System Construction", Volume 2, Dated 1985, and all Subsequent Amendments and Additions.

2. Prior to excavating for roadway, new drain, sewer, and other utility lines, the Contractor shall verify in the field the location of existing water mains and appurtenances.

Where the installation of new drain, sewer and other utility lines are to cross over or under existing water mains, the Contractor shall expose the existing water mains prior to trenching. Excavation around water mains shall be done by hand.

3. ~~Items indicated as "relocate" on the plans shall be removed, cleaned, painted, and reinstalled at the new location by the Contractor unless otherwise specified.~~

DELETE

4. The Contractor shall notify the Board of Water Supply in writing one week prior to commencing work on the water system.
5. All plans approved by the Board of Water Supply are based solely on the adequacy of the water supply. All other features of the water system, such as lines, grades, fittings etc., and drainage and other features of improvements shall not be the responsibility of the Board of Water Supply.
6. The existence and location of underground utilities and structures as shown on the plans are from the latest available data but is not guaranteed as to the accuracy or the encountering of other obstacles during the course of the work. The Contractor shall be responsible and shall pay for all damages to existing utilities.
7. Should major tree roots 2 inches and larger be encountered during construction, these roots shall be cut and sealed with asphaltic paint.
8. Wherever connections to existing mains are shown on the plans, the contractor shall expose the existing mains prior to excavation of the main trench. The remaining excavation for the connection to the existing mains shall be excavated when the contractor is ready to make the connection.

9. ~~Existing utilities crossing the water main are to remain in service and in place. If relocated for the contractor's convenience, interruption of service shall be for a minimum period of time and shall be done at the contractor's expense and only with the approval of the BWS.~~

DELETE

10. Test pressure shall be one of the following:
 - a. Prevailing line pressure, joints left exposed for 24 hours.
 - b. 150 psi.

11. Contractor to cut & plug all unused laterals at the main whether or not shown on the plans. Meter and Valve boxes to be or already abandoned shall be demolished or removed and properly disposed of. The damaged area shall be repaired to an equal or better condition than the immediate area. All work shall be done at the expense of the contractor.

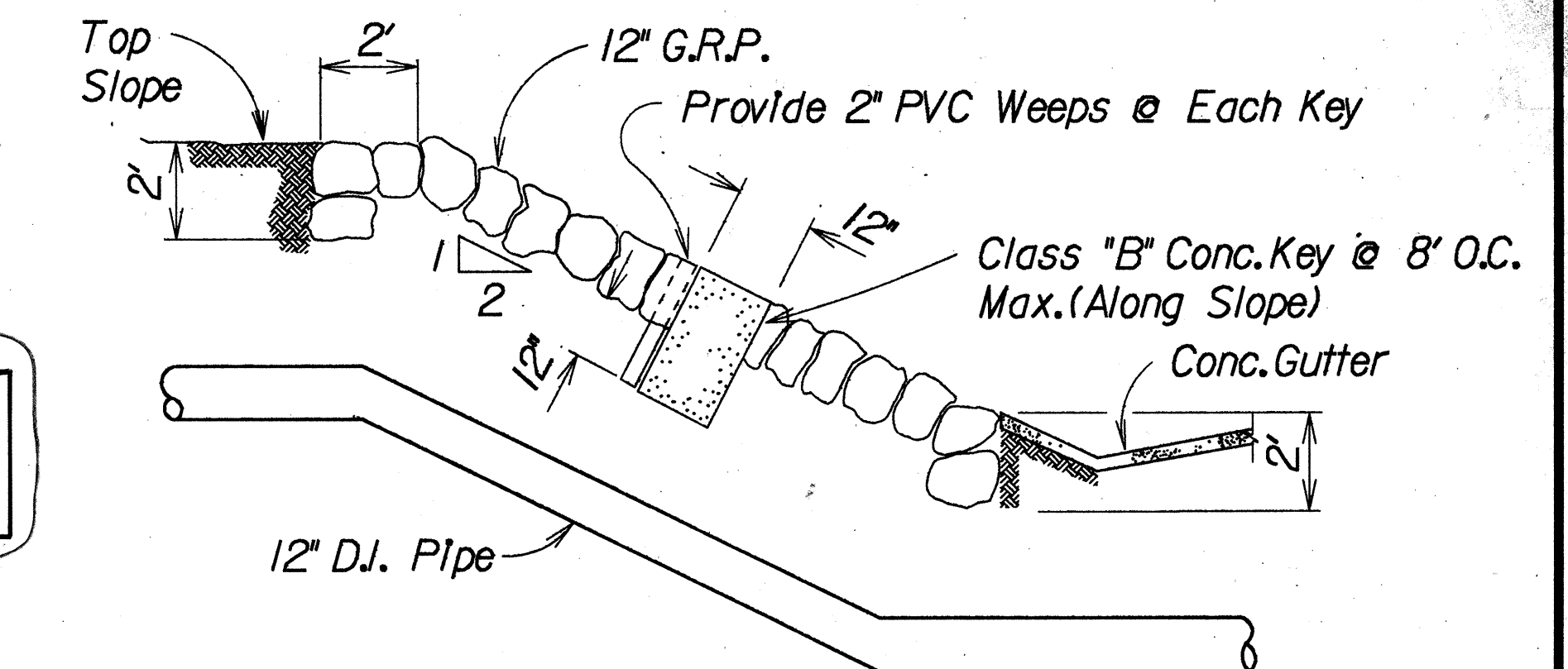
12. ~~After installation of tapping sleeve and valve, prior to actual tapping operations, the assembly shall be tested at 150 p.s.i. on both sides of the valves.~~

DELETE

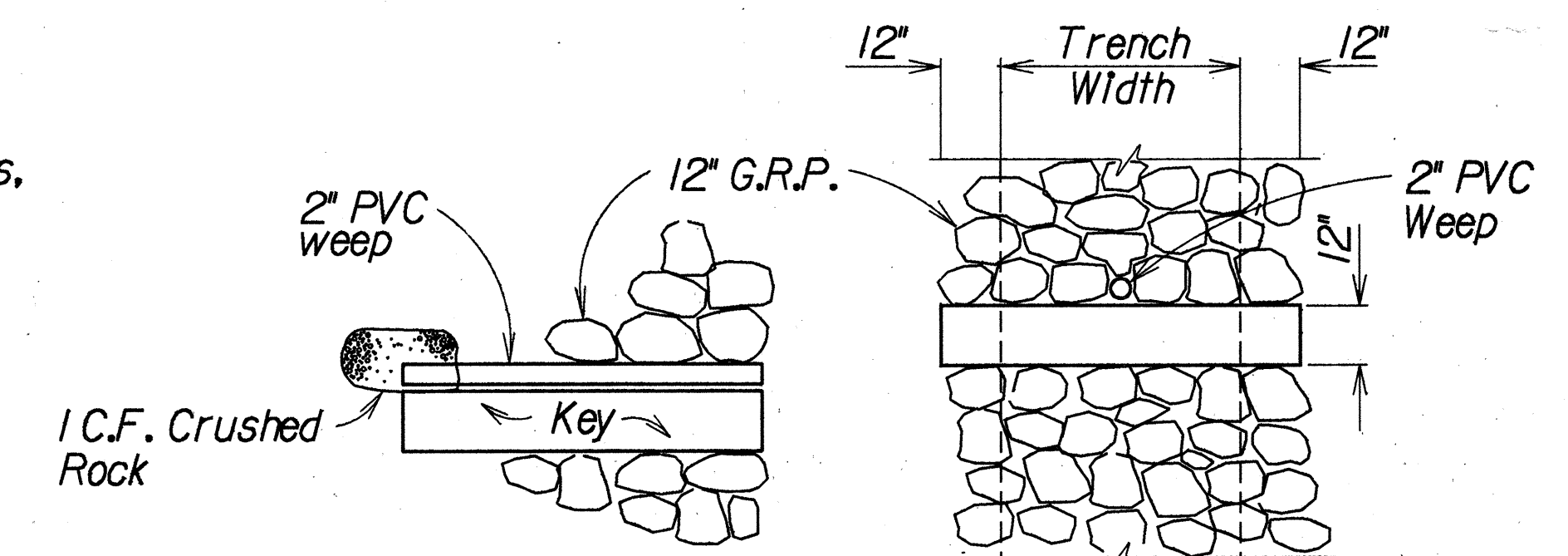
13. The Contractor shall be responsible for the protection of water lines during construction. The Contractor shall be especially careful when excavating behind water line tees and bends wherever there is a possibility of water line movement due to removal of the supporting earth beyond the existing reaction blocks. The Contractor shall take whatever measures necessary to protect the water lines, such as constructing special reaction blocks (with BWS approval) and/or modifying his construction methods.

14. Prior to installation, the contractor shall submit for approval by Board of Water Supply, the manufacturer's certification that all cast iron (gray or ductile) fittings for the project conform in all respects to the Water System Standards, dated 1985.

15. Polygon shape for mechanical joint glands as described in AWWA Standard C111 shall be "straight-sided" and shall be applicable to both cast iron and ductile iron glands.



ELEVATION



WEEP DETAIL

PLAN

GROUTED RUBBLE PAVING DETAILS

Not To Scale

APPROVED:

CHIEF, PLANNING & ENGINEERING, BWS

DATE

4/10/89
DATE

C.O.:
Add and Delete Water Notes

REVISIONS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**WATER NOTES AND DETAILS
FOR NEW 12-INCH WATERLINE**

INTERSTATE ROUTE H-3
TEMPORARY CONNECTOR
F.A.J. PROJECT NO. I-H3-1(50)

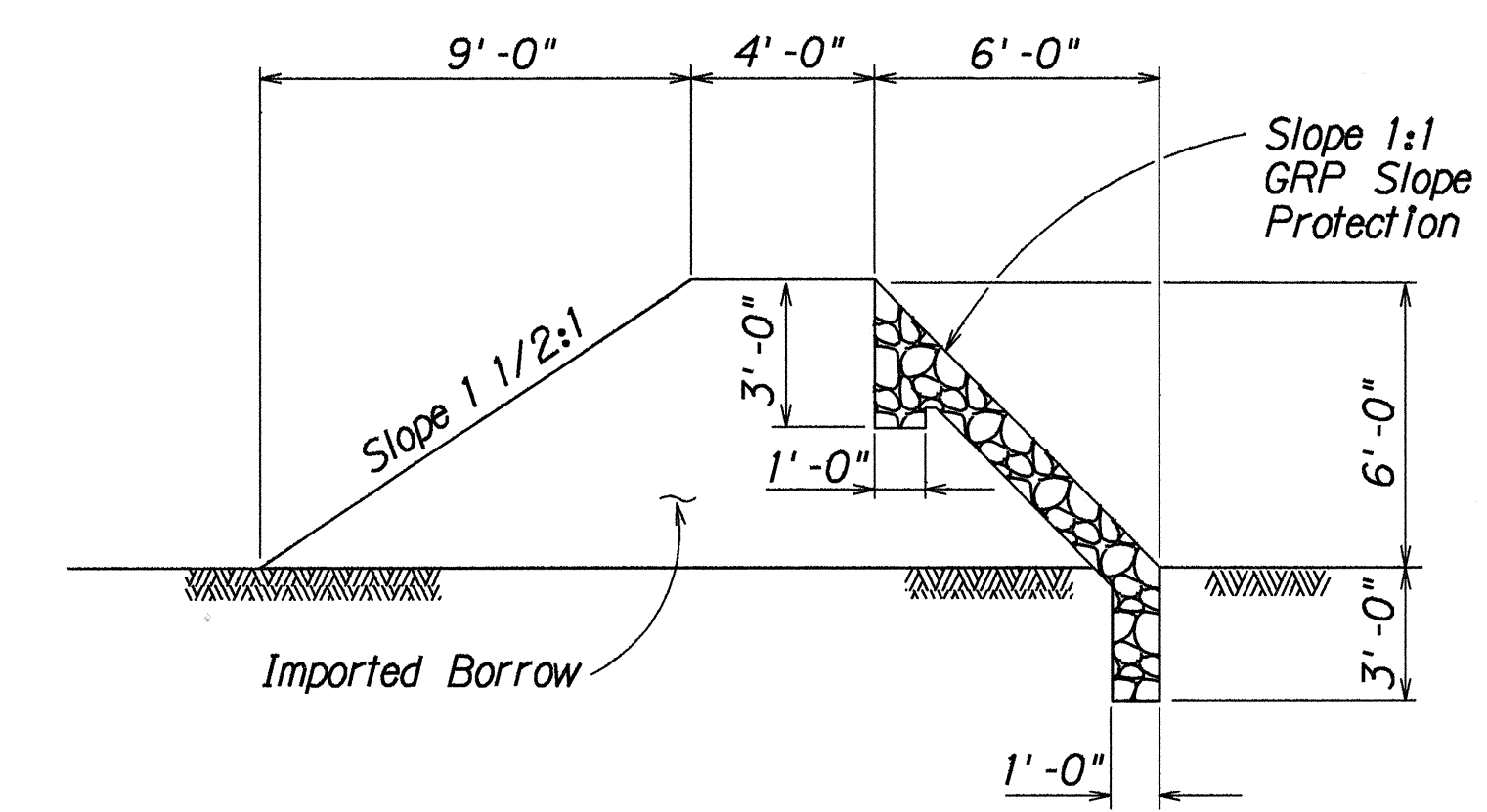
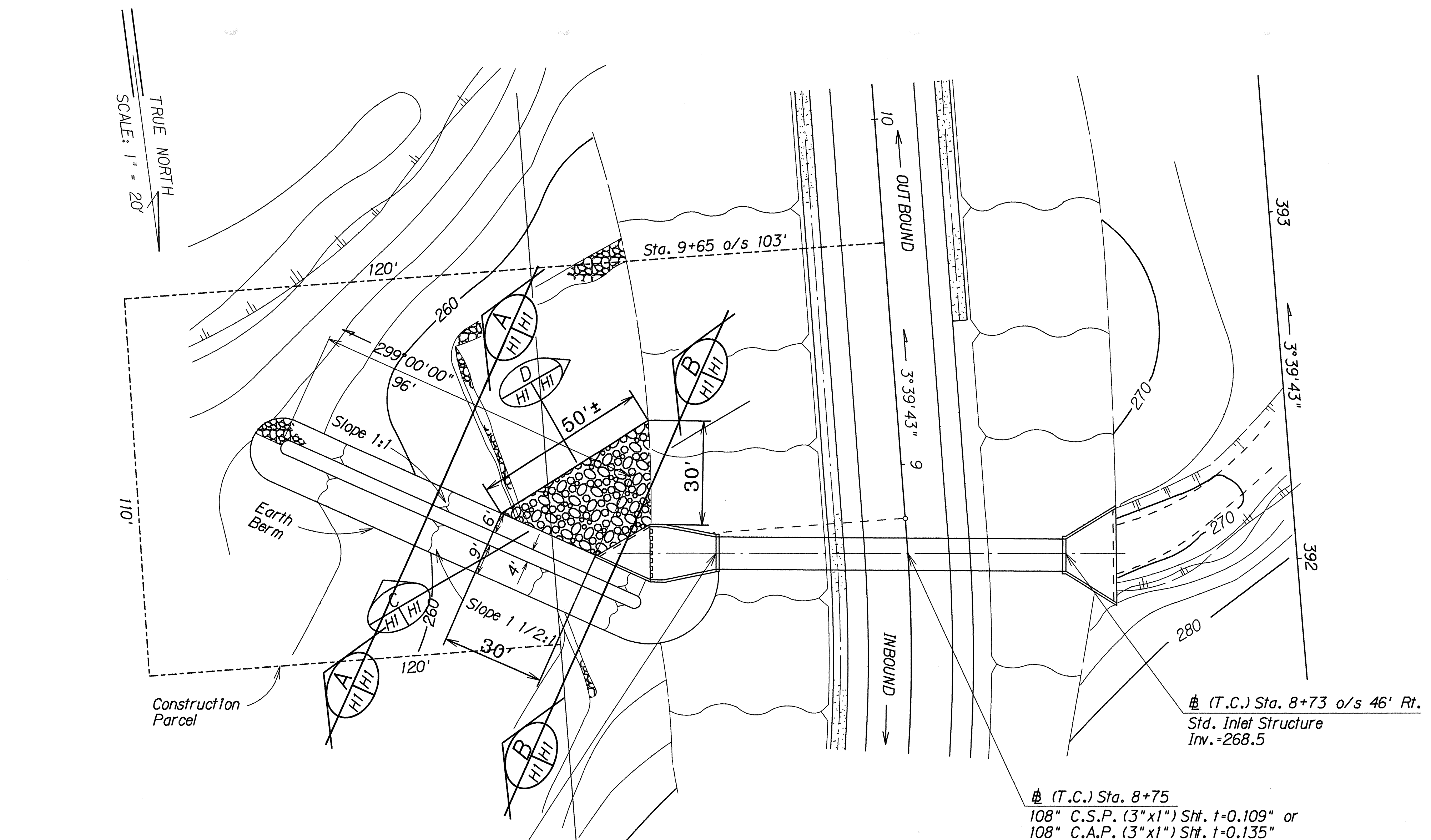
Scale: As Shown

Date: March 1989

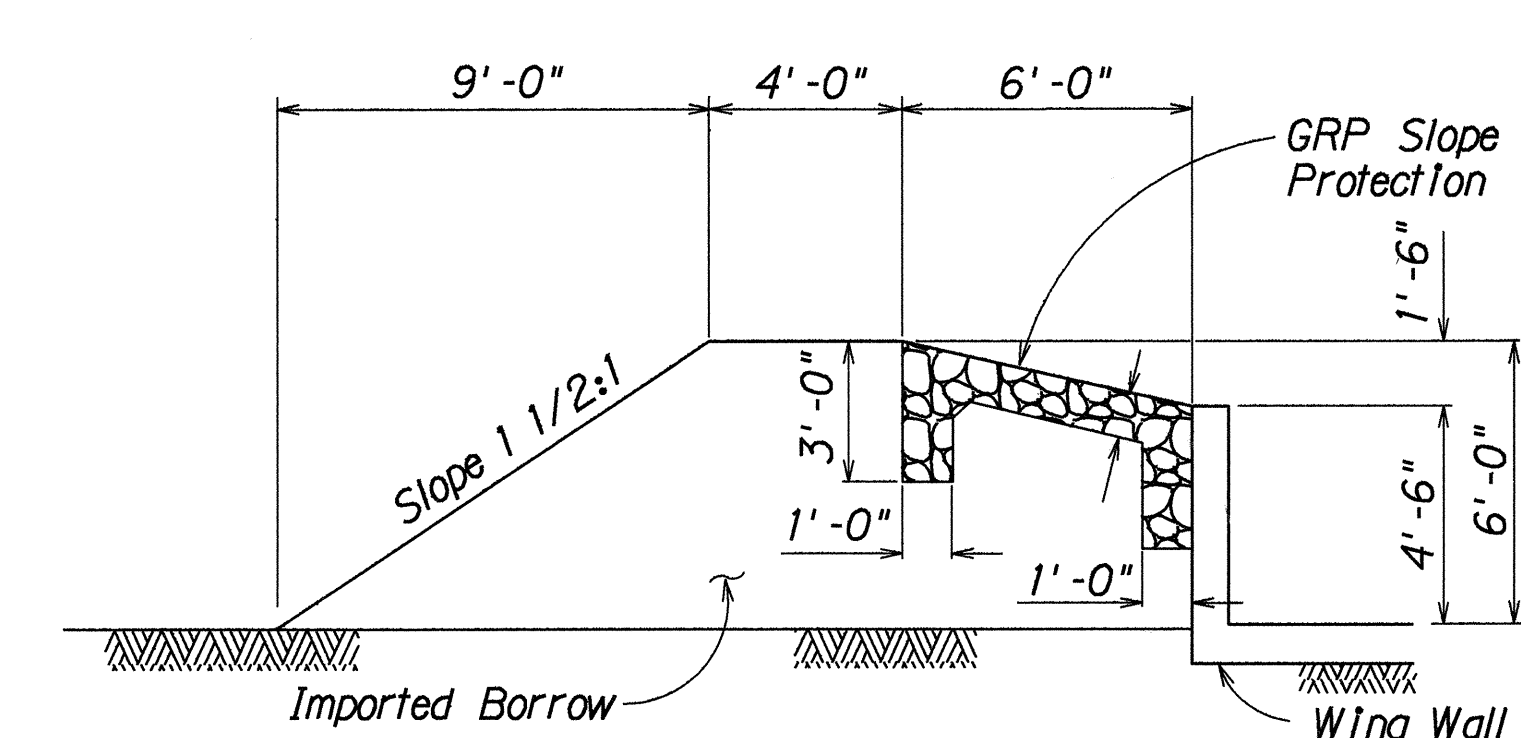
SHEET NO. 1 OF 2 SHEETS

C.O. ADD.164S-24

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1991	CO 164S-26	164

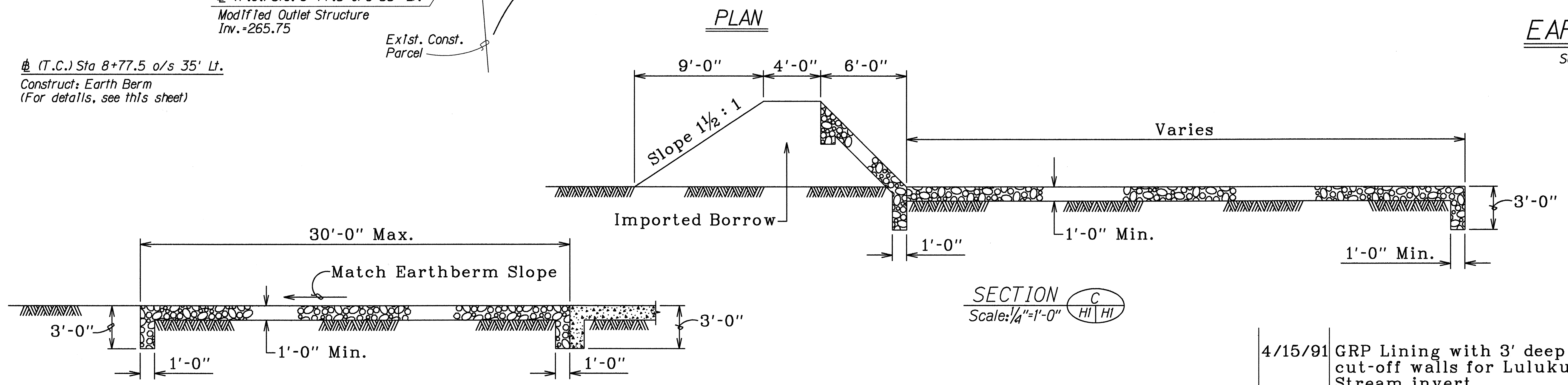


SECTION A
Scale: 1/4" = 1'-0"



SECTION B
Scale: 1/4" = 1'-0"

EARTH BERM
Scale: 1/4" = 1'-0"



SECTION C
Scale: 1/4" = 1'-0"

SECTION D
Scale: 1/4" = 1'-0"

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
INTERSTATE ROUTE H-3
TEMPORARY CONNECTOR
F.A.I. PROJ. NO. I-H3-1(50)

Scale: As Noted
Date: Jan., 1991

4/15/91	GRP Lining with 3' deep cut-off walls for Luluku Stream invert. (CCO 33, 18 SUPP)
1/16/91	Sheet added to show plan and details of earth berm
DATE	REVISION