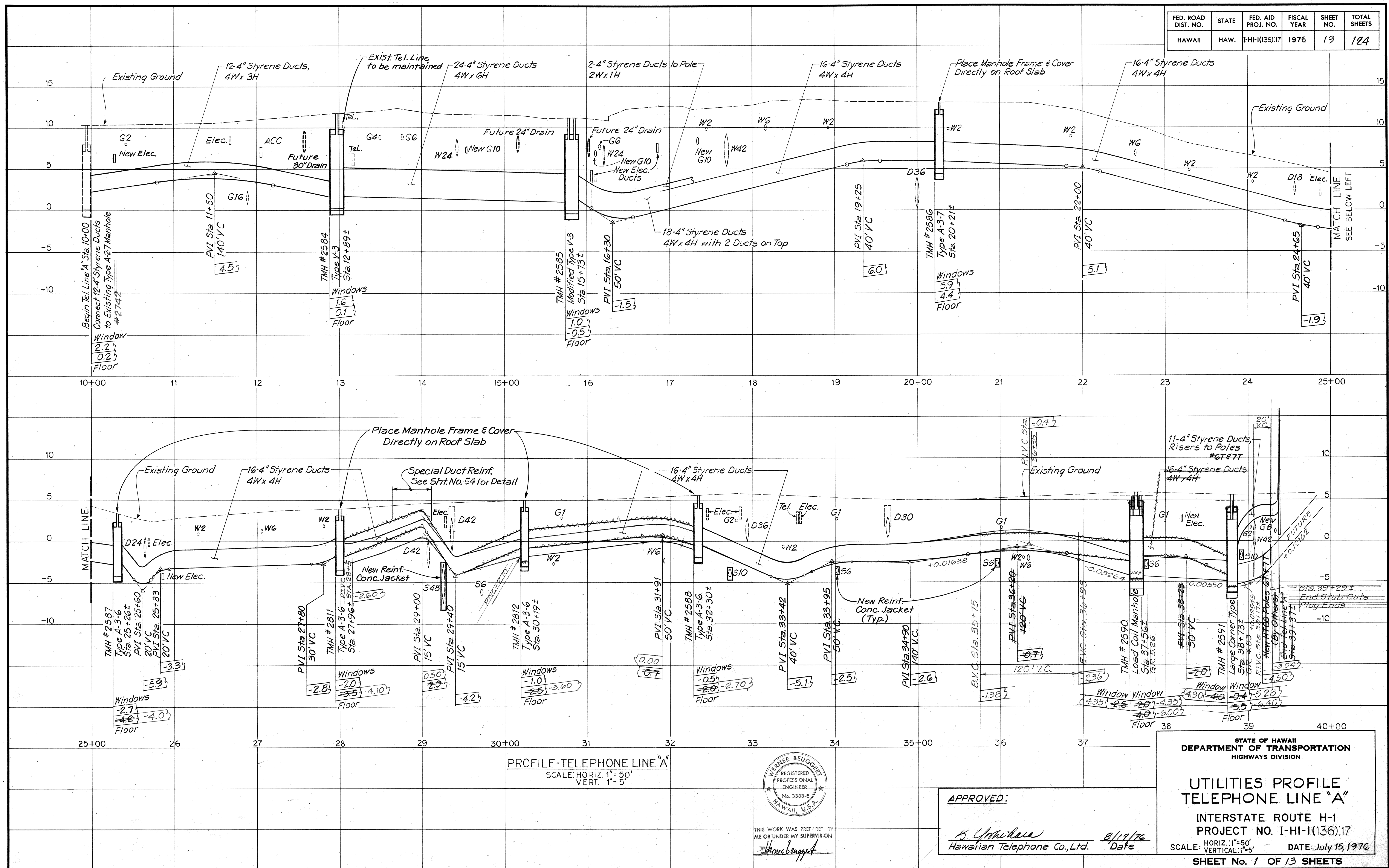
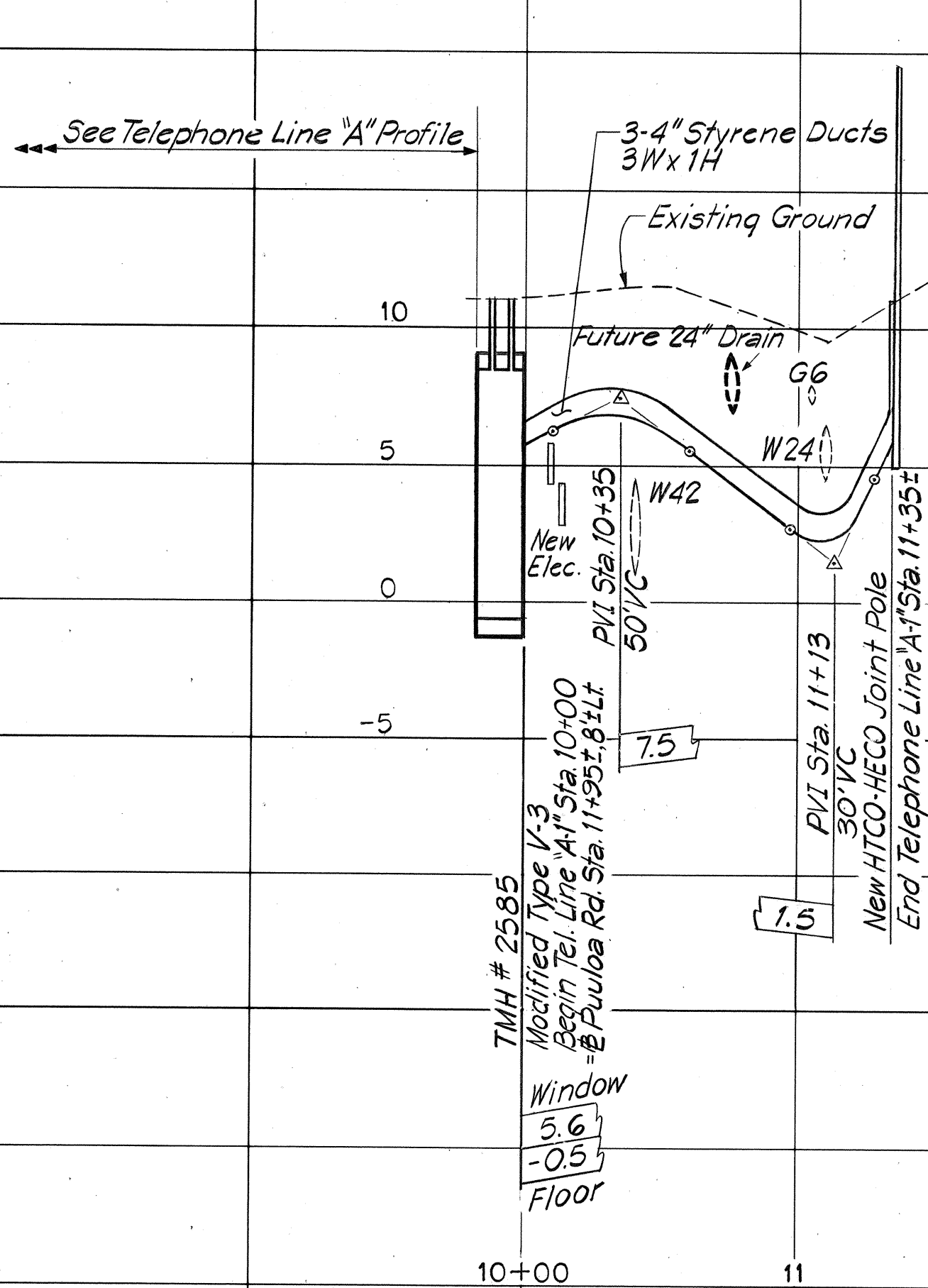


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(136)17	1976	19	124



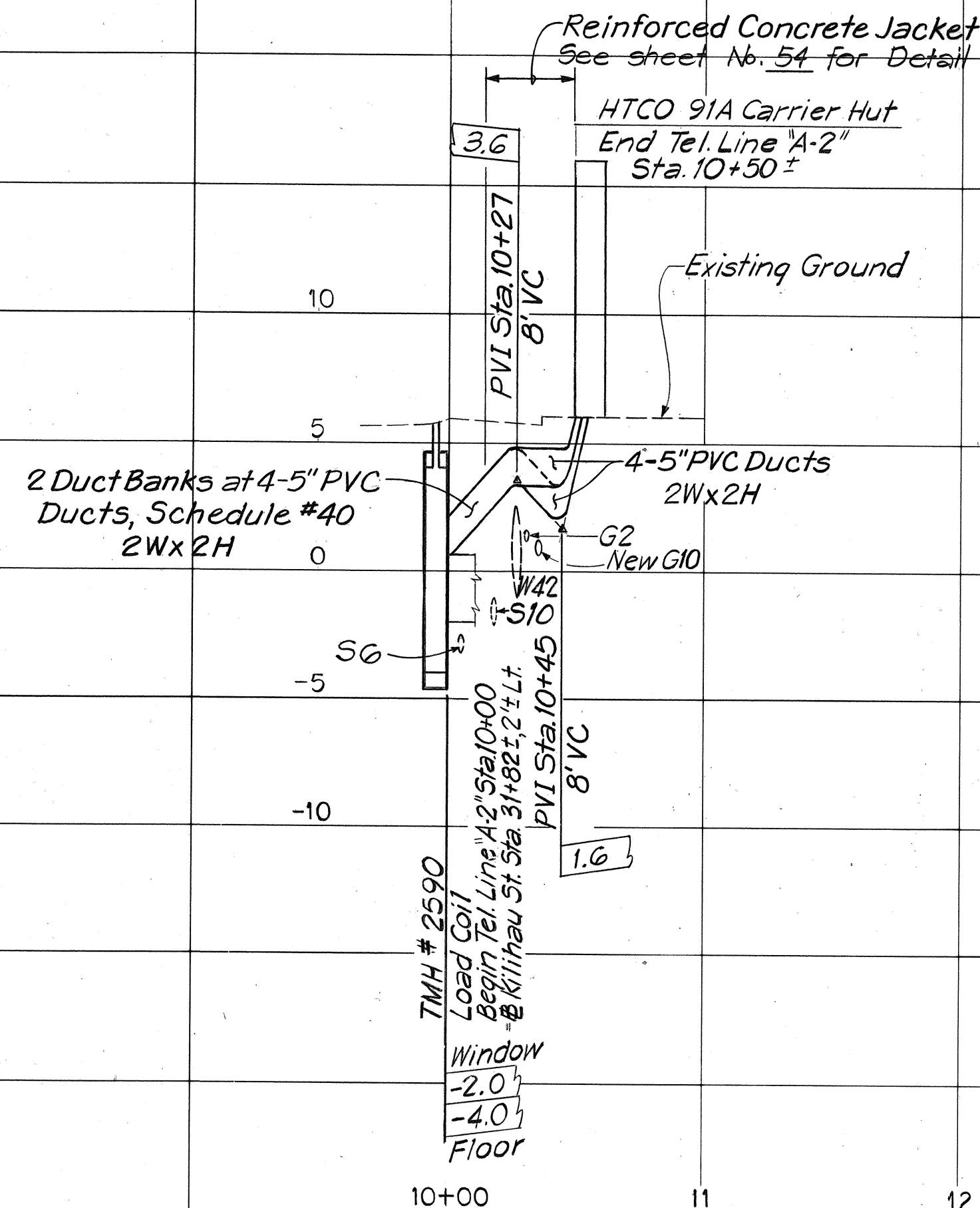
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(136):17	1976	20	124



PROFILE-TELEPHONE LINE "A-1"

SCALE: HORIZ. 1" = 50'

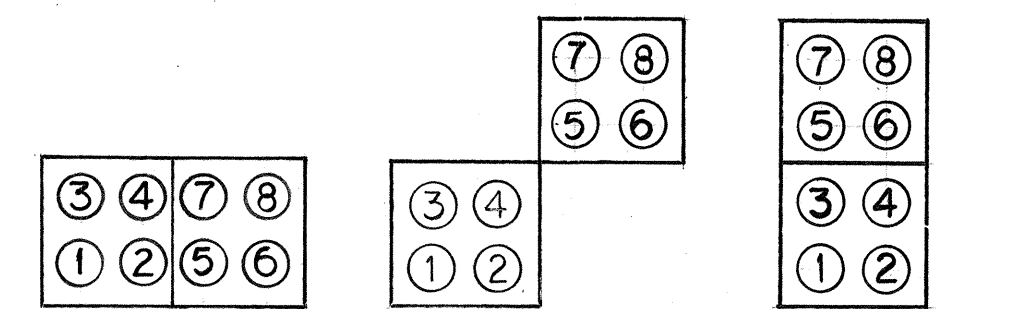
VERT. 1" = 5'



PROFILE-TELEPHONE LINE "A-2"

SCALE: HORIZ. 1" = 50'

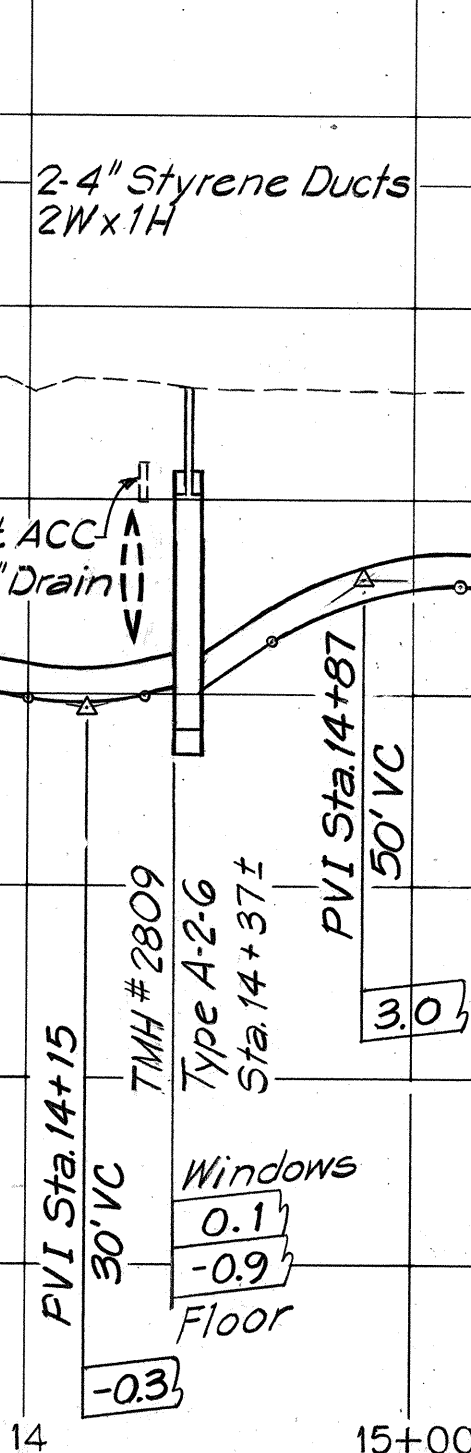
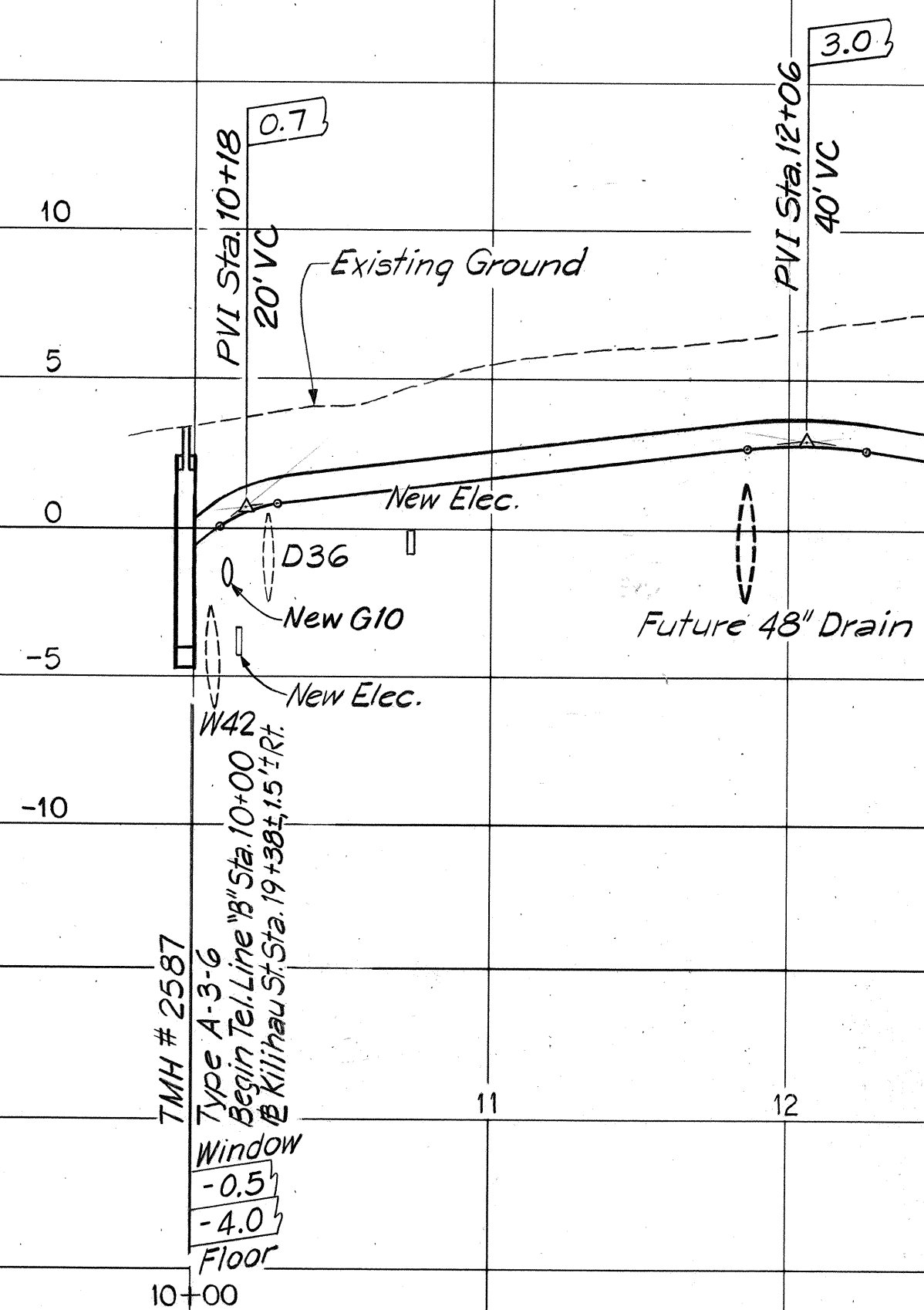
VERT. 1" = 5'



PROFILE - TELEPHONE LINE "A-3"

SCALE: HORIZ. 1" = 50'

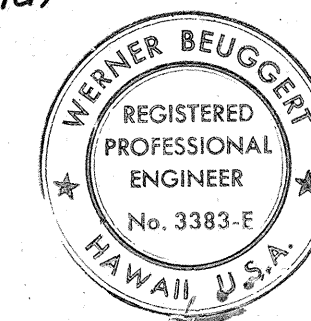
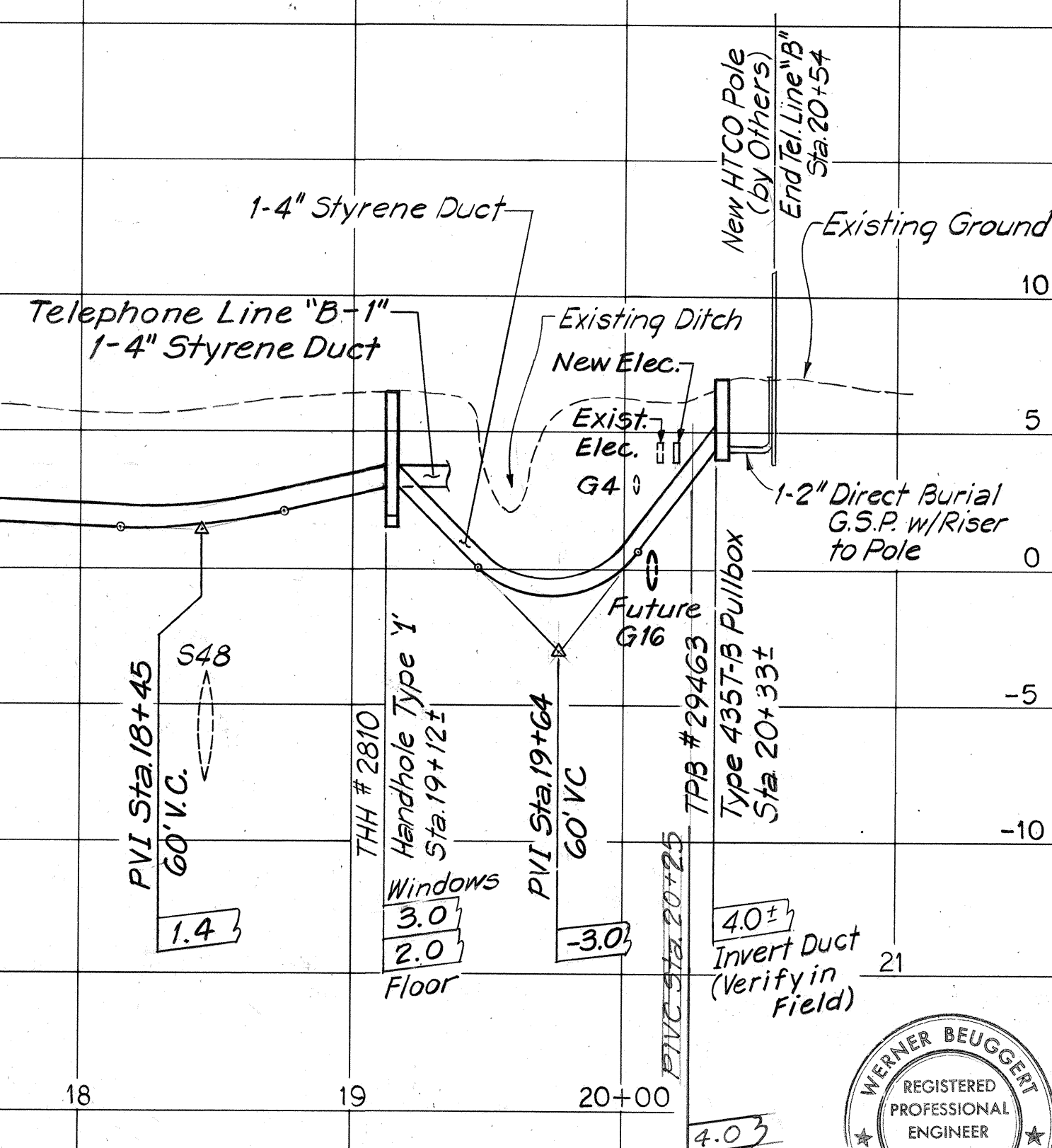
VERT. 1" = 5'



PROFILE-TELEPHONE LINE "B"

SCALE: HORIZ. 1" = 50'

VERT. 1" = 5'



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Werner Beugger

APPROVED:

B. Whitman 8/19/76
Hawaiian Telephone Co., Ltd. Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITIES PROFILE
TELEPHONE LINES "A-1", "A-2" & "B"

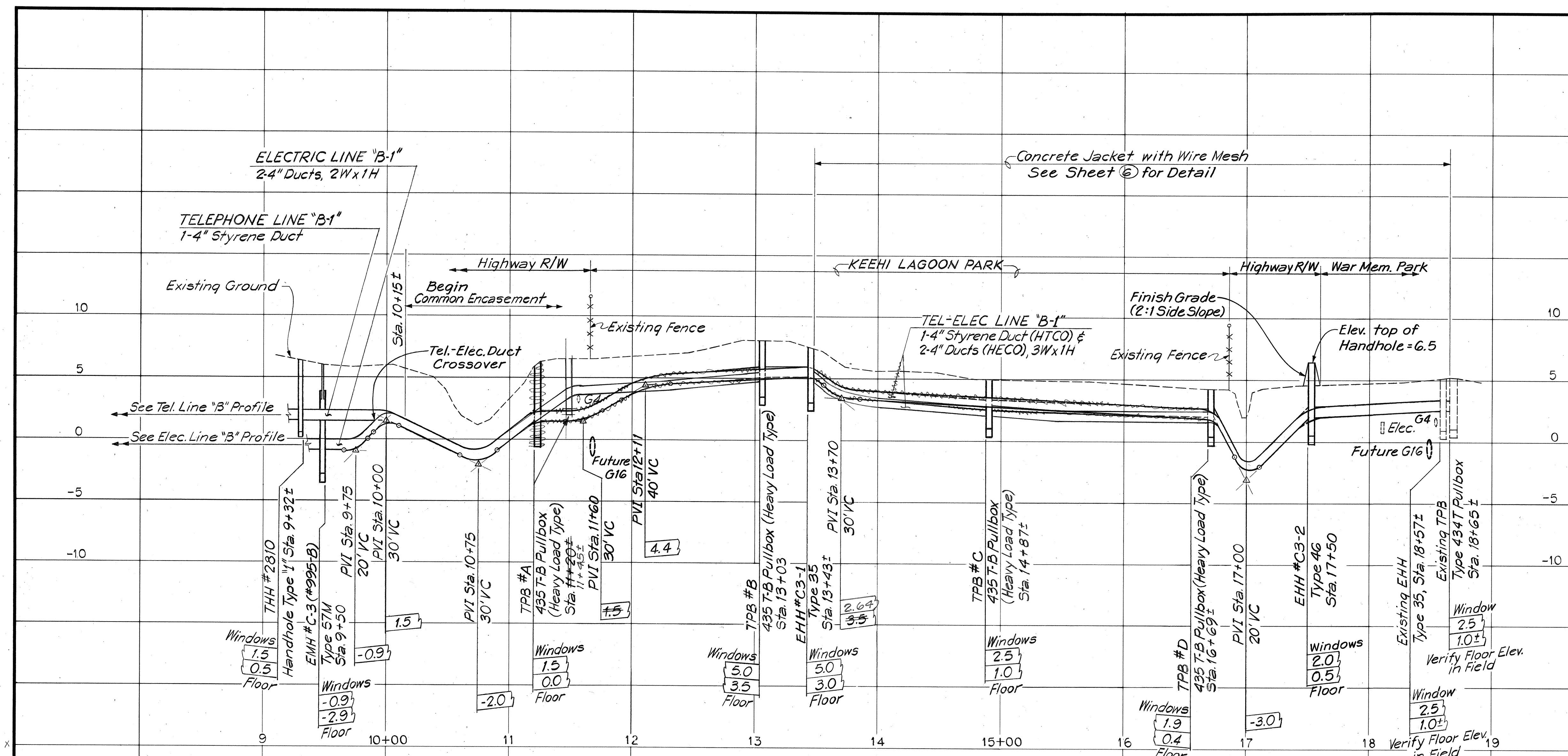
INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(136):17

SCALE: HORIZ. 1" = 50'
VERTICAL 1" = 5'

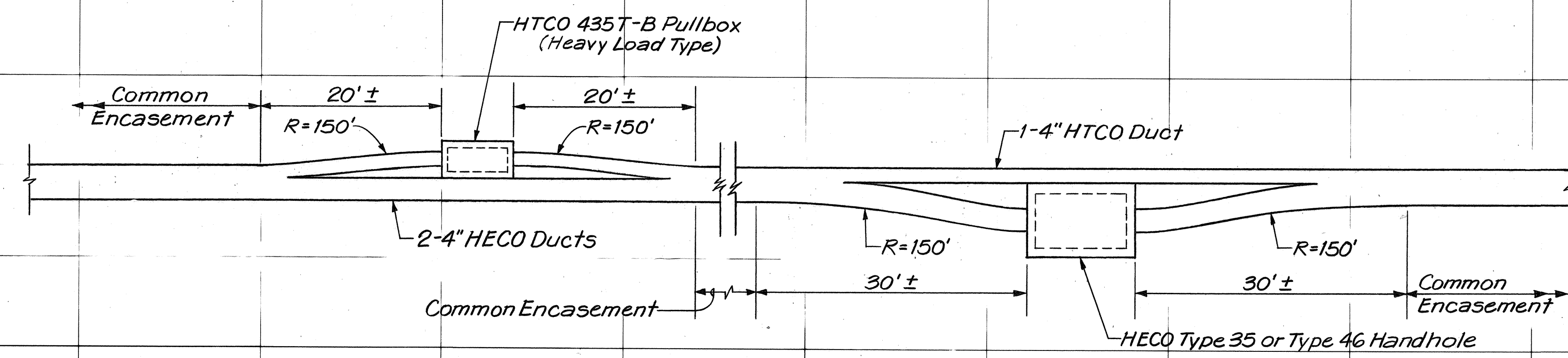
DATE: July 15, 1976

SHEET No. 2 OF 13 SHEETS

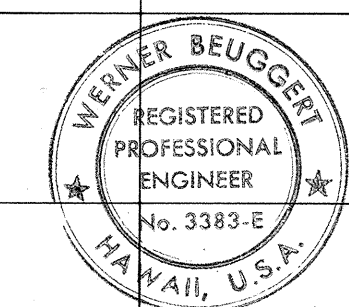
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(136):17	1976	21	124



PROFILE-TELEPHONE-ELECTRIC LINE "B-1"
 SCALE: HORIZ: 1"=50'
 VERT: 1"=5'



TYPICAL PLAN DETAIL FOR TELEPHONE-ELECTRIC LINE "B-1"
 N.T.S.



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Werner Beugger

APPROVED:

Garry Lee 8/26/76
 Dept. of Parks & Recreation
 City & County of Honolulu Date

J. Karamots 7/27/76
 Hawaiian Electric Co., Inc. C.L.G. m.g. Date

B. Whitelaw 8/19/76
 Hawaiian Telephone Co., Ltd. Date

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

UTILITIES PROFILE
 TELEPHONE-ELEC LINE "B-1"

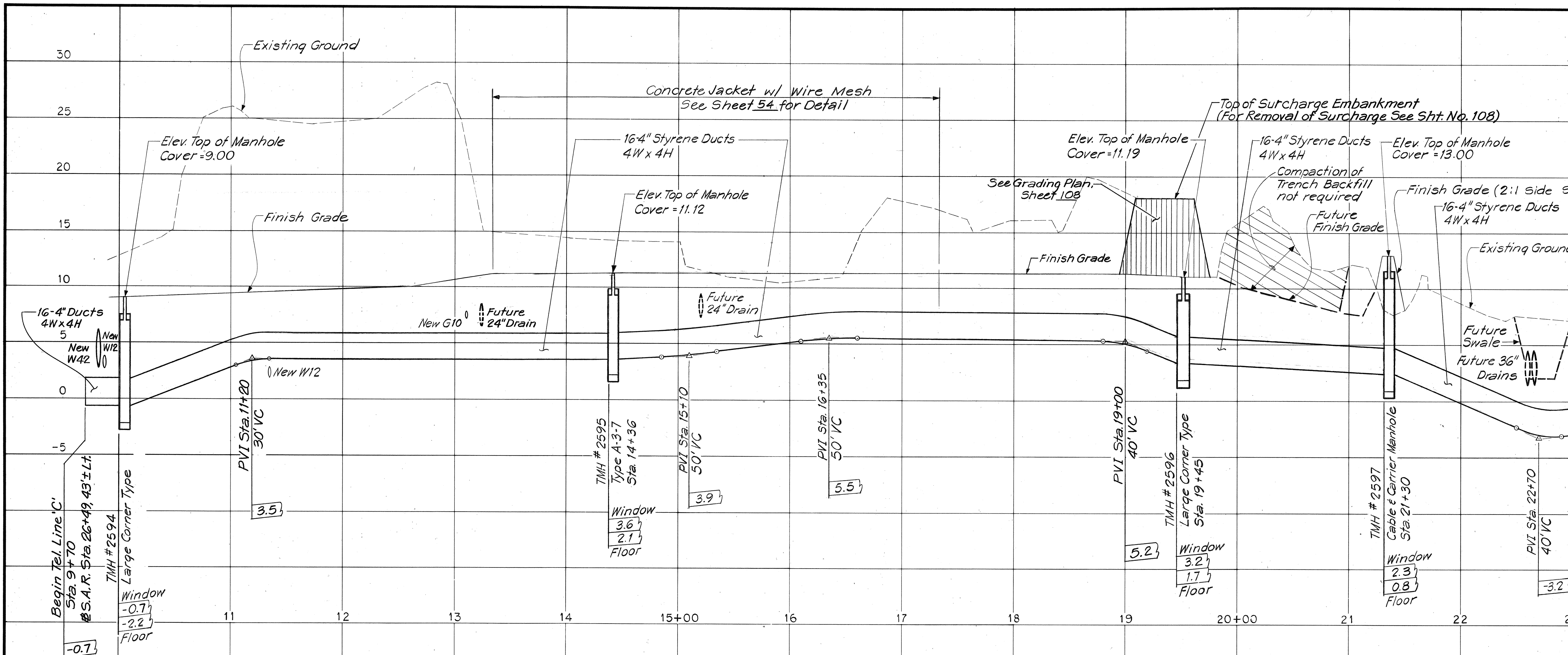
INTERSTATE ROUTE H-1
 PROJECT NO. I-HI-1(136):17

SCALE: HORIZ.: 1"=50'
 VERTICAL: 1"=5' DATE: July 15, 1976

SHEET No. 3 OF 13 SHEETS

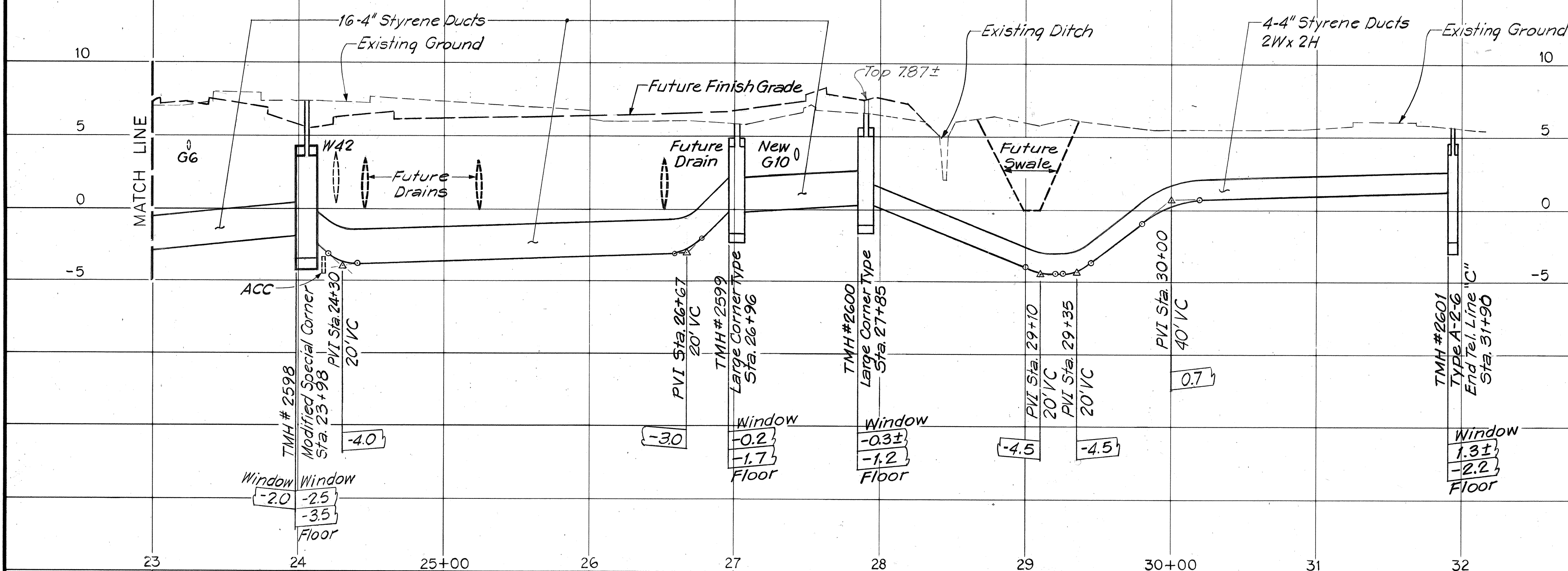
DATE: _____
 SURVEY PLOTTED BY: _____
 DRAWN BY: _____
 TRACED BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 NOTE BOOK No. _____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(136):17	1976	22	124

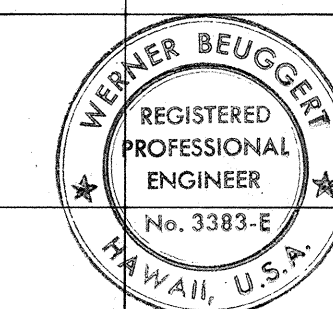


NOTES:

1. If necessary, Manhole Covers for TMH #'s 2599, 2600, & 2601 may be placed directly on Top Slab of Manhole.
2. Cost of constructing Embankment for TMH # 2597 to be incidental to cost of Manhole.



PROFILE-TELEPHONE LINE "C"
SCALE: HORIZ. 1"=50'
VERT. 1"=5'



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ME OR UNDER MY SUPERVISION.
Walter Beugert

10/6/76 Revised Telephone Line "C" Profile.
DATE REVISION

APPROVED:

H. Ophihara 8/19/76
Hawaiian Telephone Co., Ltd. Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITIES PROFILE
TELEPHONE LINE "C"

INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(136):17

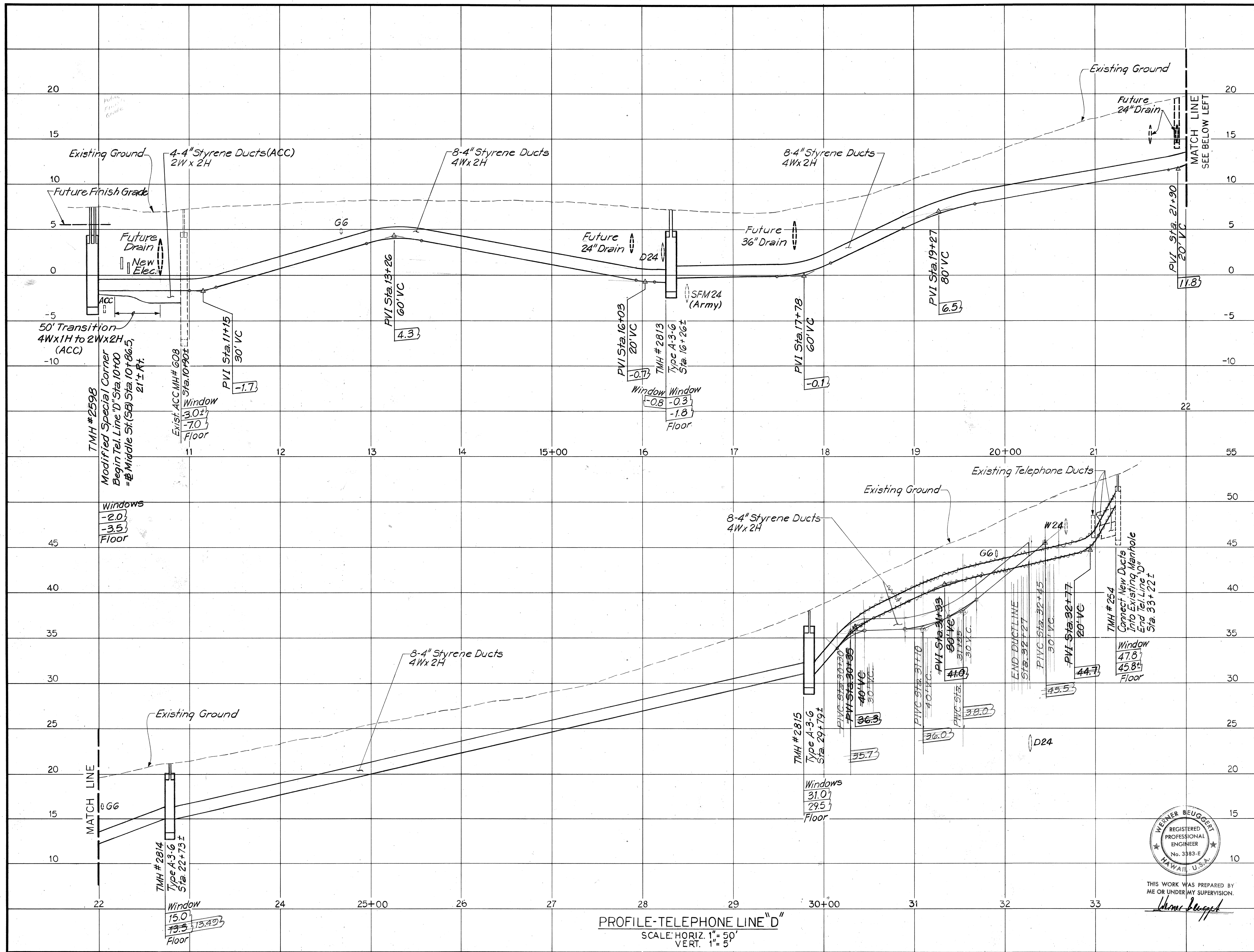
SCALE: HORIZ. 1"=50' DATE: July 15, 1976
VERTICAL: 1"=5'

SHEET No. 4 OF 13 SHEETS

ADD. 22

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
ORIGINAL PLAN	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(136):17	197	23	124



SURVEY PLATTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
No.	

APPROVED:

B. Grathara 2/19/76
Hawaiian Telephone Co., Ltd. Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**UTILITIES PROFILE
TELEPHONE LINE "D"**

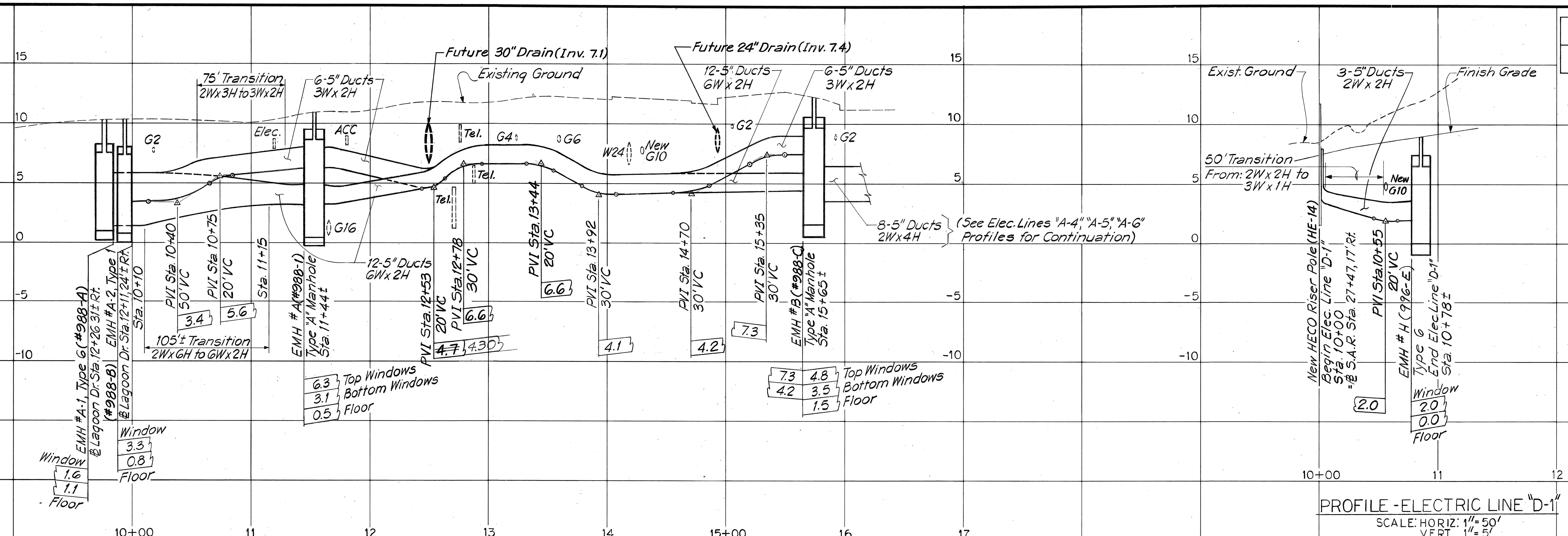
INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(136):17

SCALE: HORIZ. 1"=50'
VERT. 1"=5'

DATE: July 15, 1976

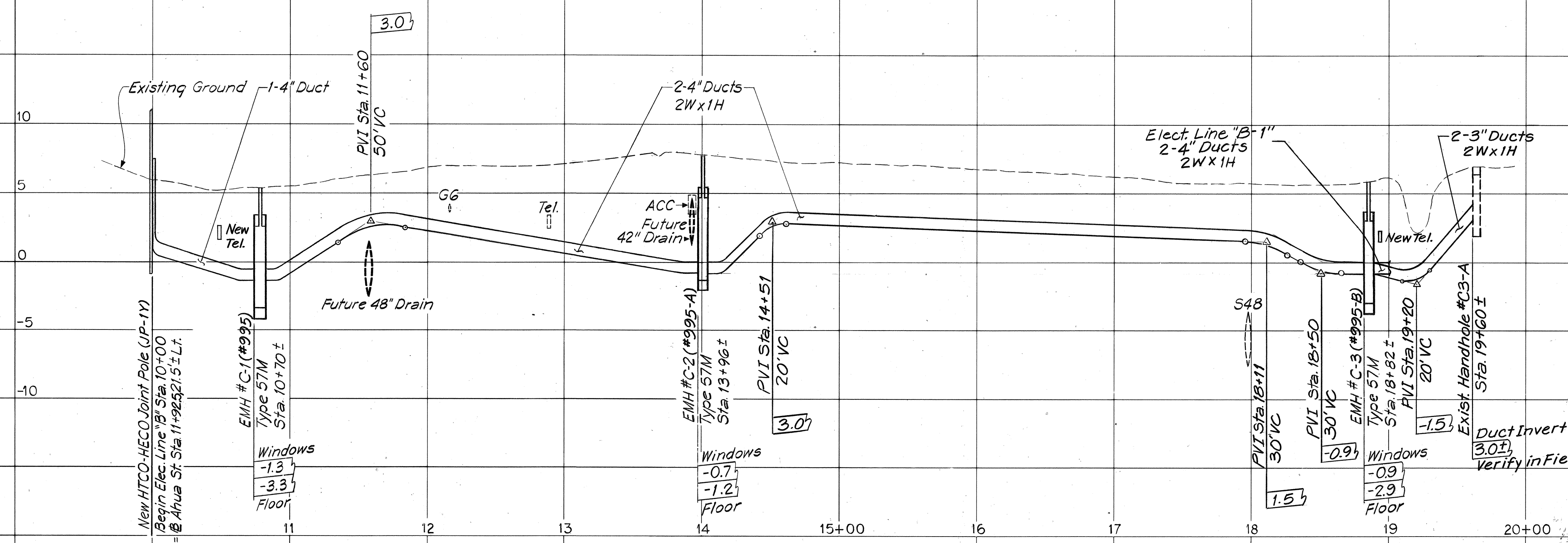
SHEET No. 5 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(136)17	1976	24	124



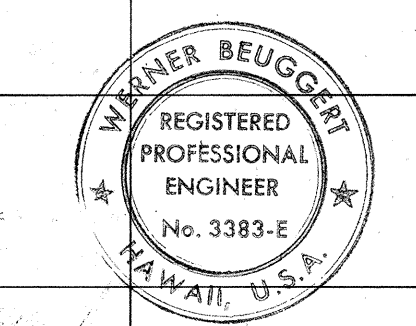
PROFILE - ELECTRIC LINE "A"
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

PROFILE - ELECTRIC LINE "D-1"
SCALE: HORIZ. 1"=50'
VERT. 1"=5'



PROFILE - ELECTRIC LINE "B"
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

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



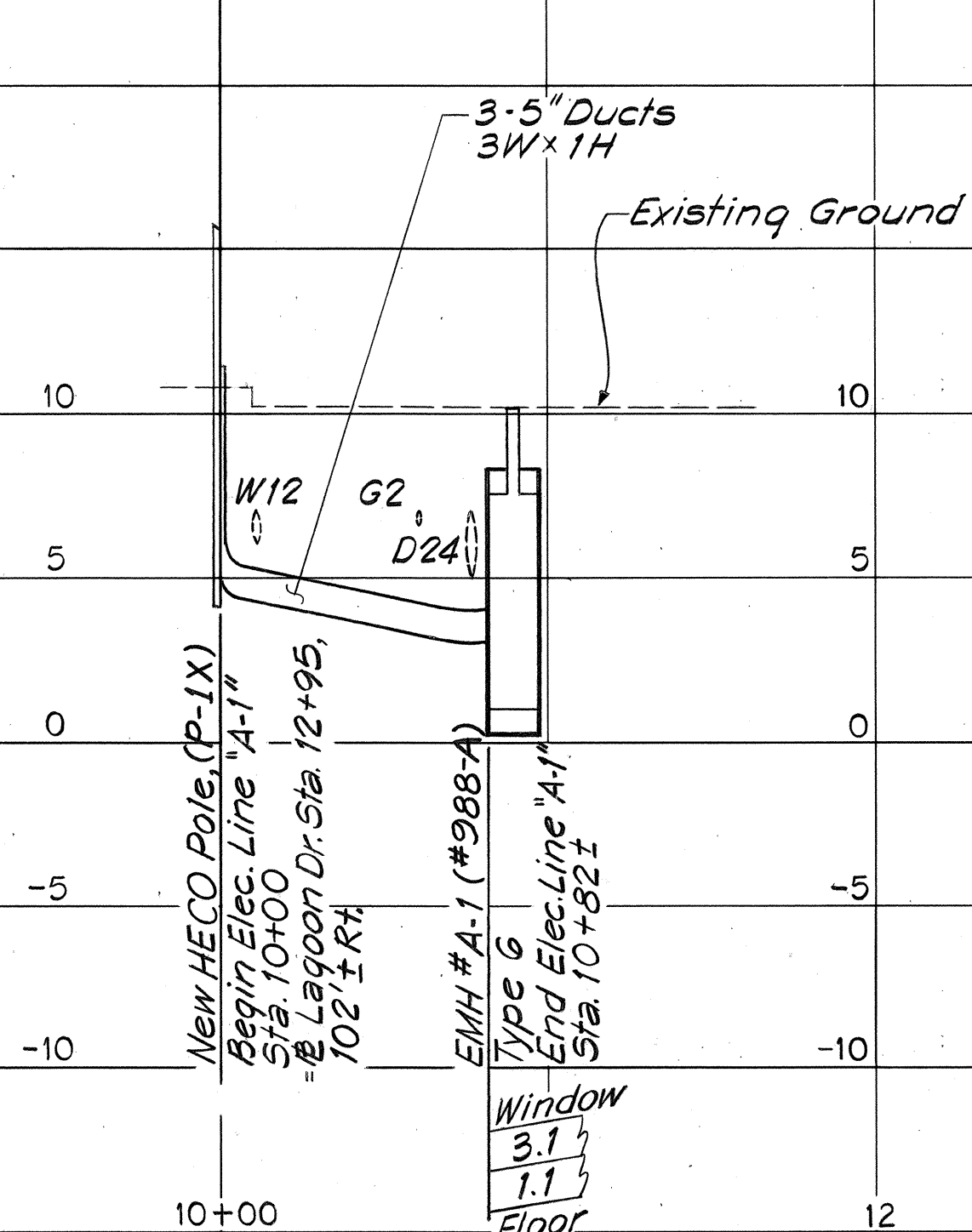
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Warner Beugert

APPROVED:
J. Karamoto 7/27/76
Hawaiian Electric Co., Inc. Date:

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITIES PROFILE
ELECTRIC LINES "A", "B" & "D-1"
INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(136)17
SCALE: HORIZ. 1"=50'
VERT. 1"=5' DATE: July 15, 1976
SHEET No. 6 OF 13 SHEETS

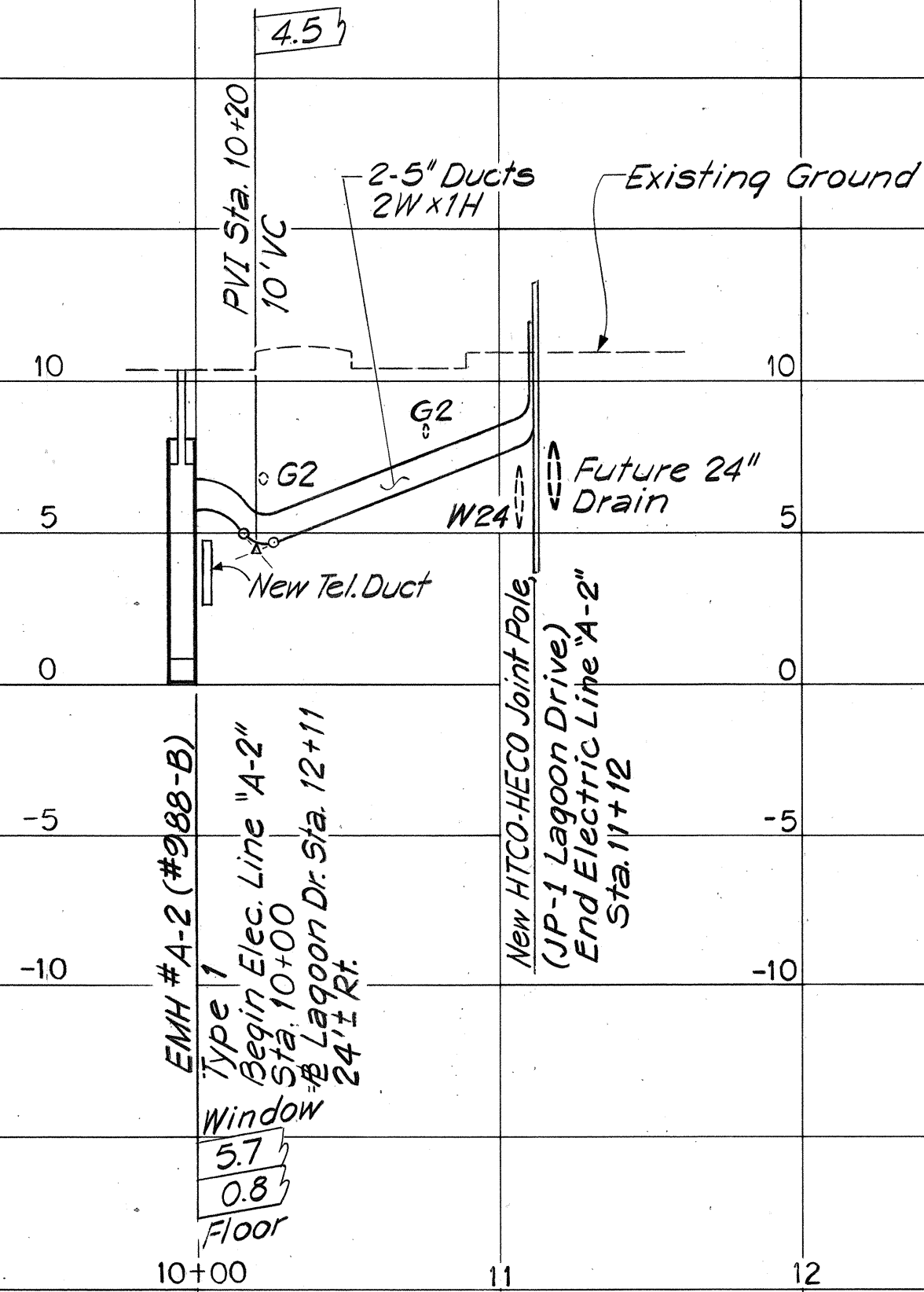
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(136).17	1976	25	124



PROFILE - ELECTRIC LINE "A-1"

SCALE: HORIZ: 1"=50'

VERT: 1"=5'

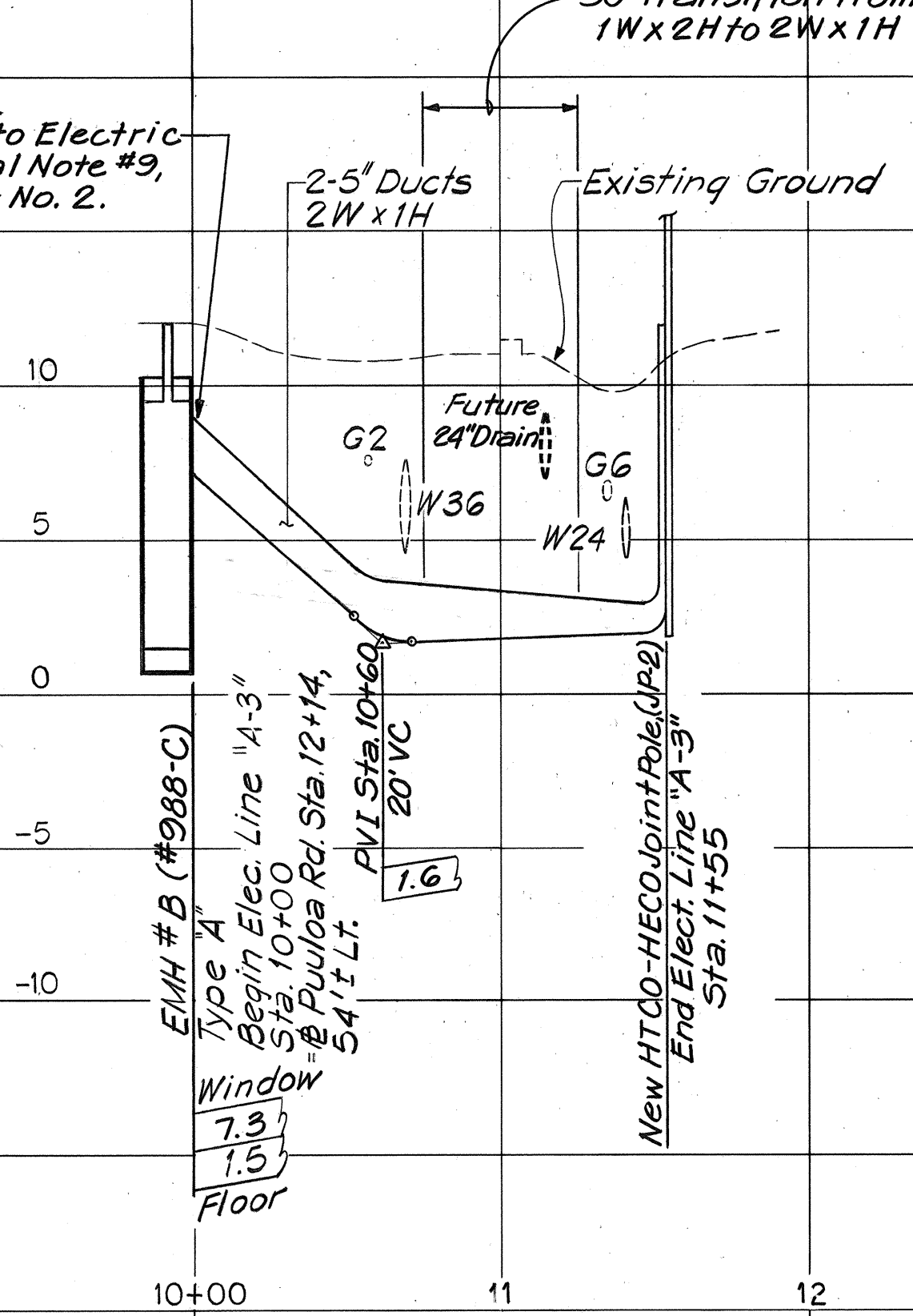


PROFILE - ELECTRIC LINE "A-2"

SCALE: HORIZ: 1"=50'

VERT: 1"=5'

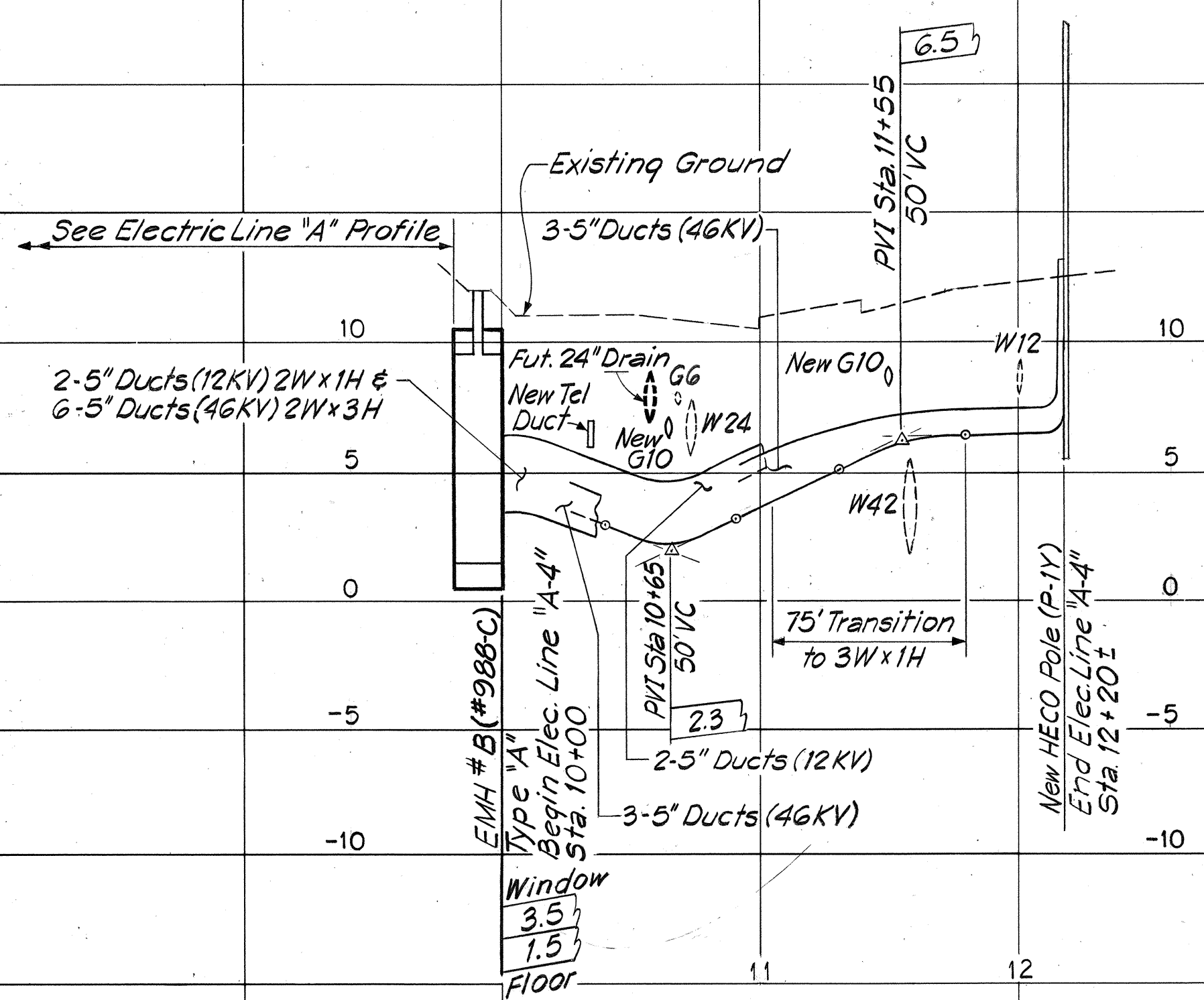
NOTE:
Refer to Electric General Note #9, Sheet No. 2.



PROFILE - ELECTRIC LINE "A-3"

SCALE: HORIZ: 1"=50'

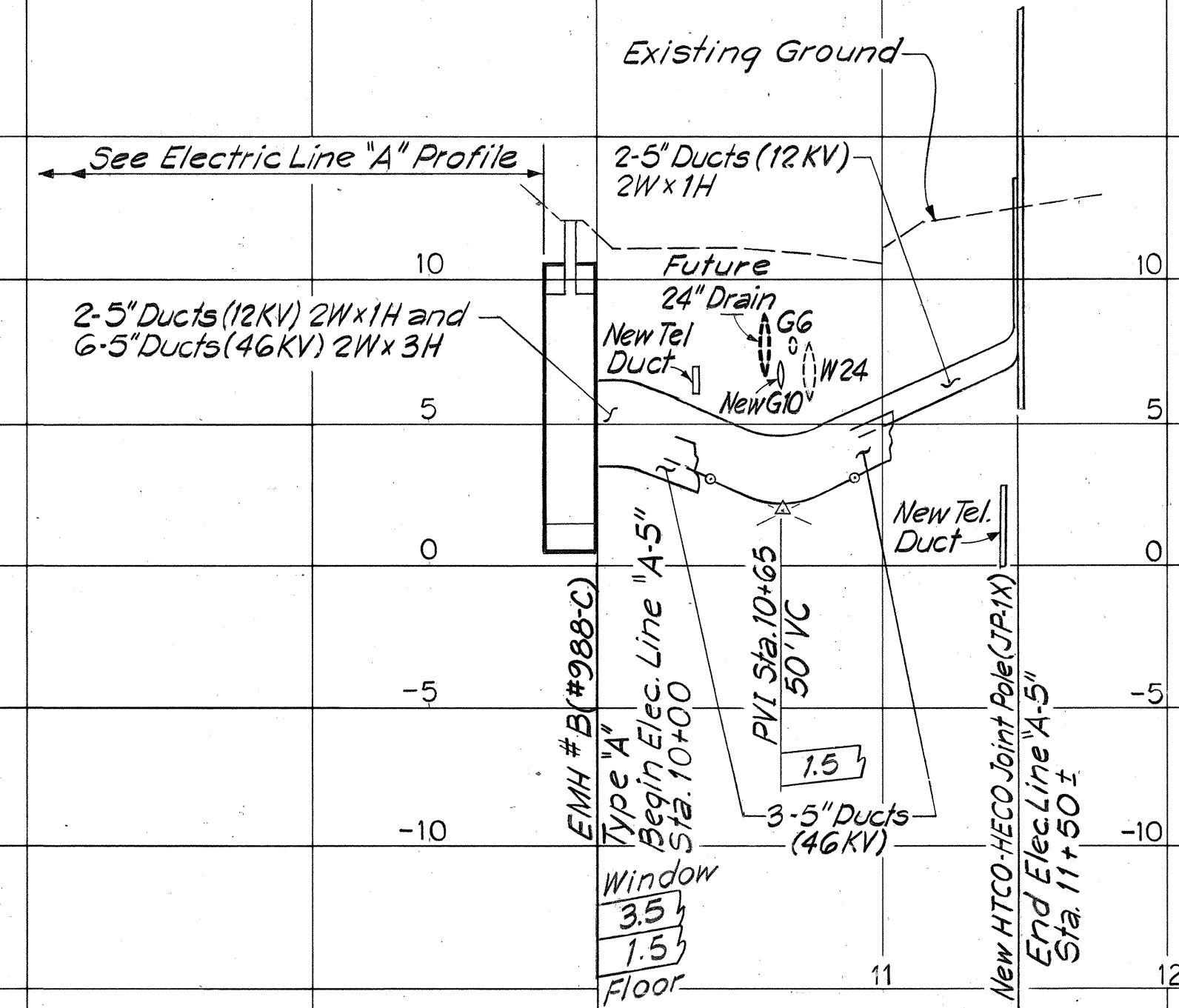
VERT: 1"=5'



PROFILE - ELECTRIC LINE "A-4"

SCALE: HORIZ: 1"=50'

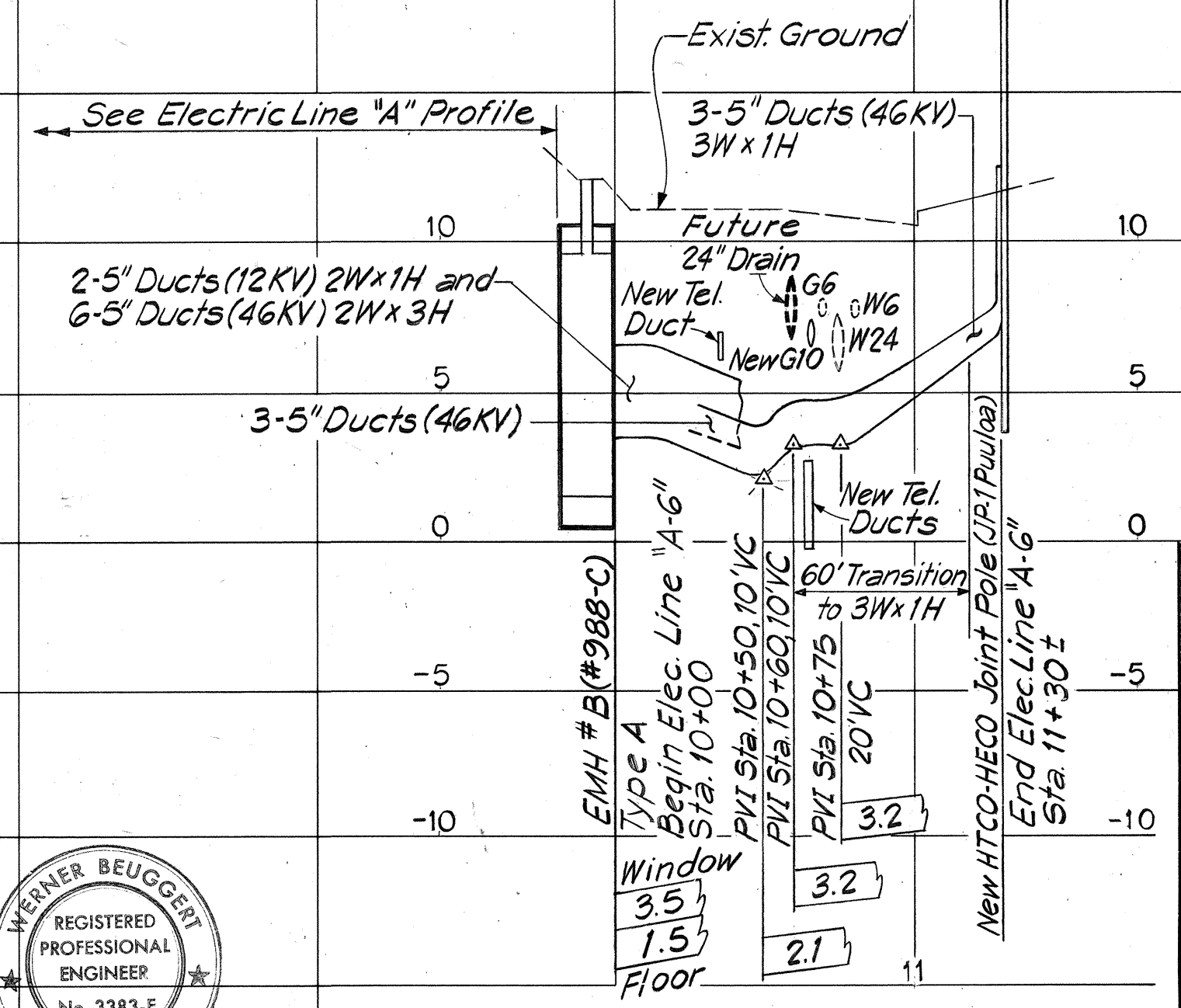
VERT: 1"=5'



PROFILE - ELECTRIC LINE "A-5"

SCALE: HORIZ: 1"=50'

VERT: 1"=5'



PROFILE - ELECTRIC LINE "A-6"

SCALE: HORIZ: 1"=50'

VERT: 1"=5'

APPROVED:

J. Karim 7/27/76
Hawaiian Electric Co., Inc. Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

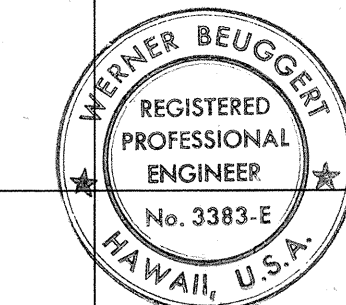
UTILITIES PROFILE
ELECTRIC LINES "A-1" thru "A-6"

INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(136).17

SCALE: HORIZ: 1"=50'
VERTICAL: 1"=5'

DATE: July 15, 1976

SHEET No. 7 OF 13 SHEETS

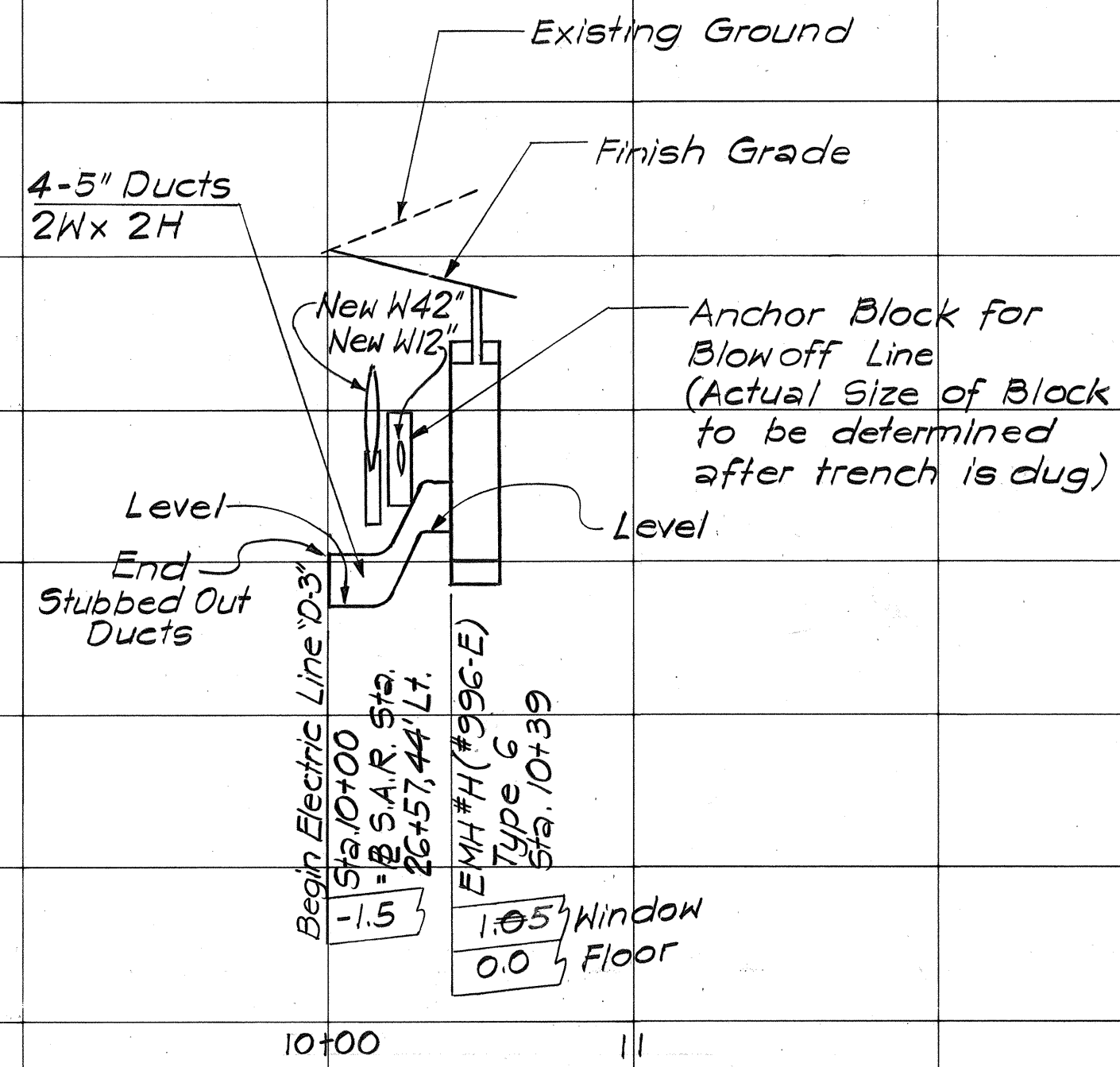
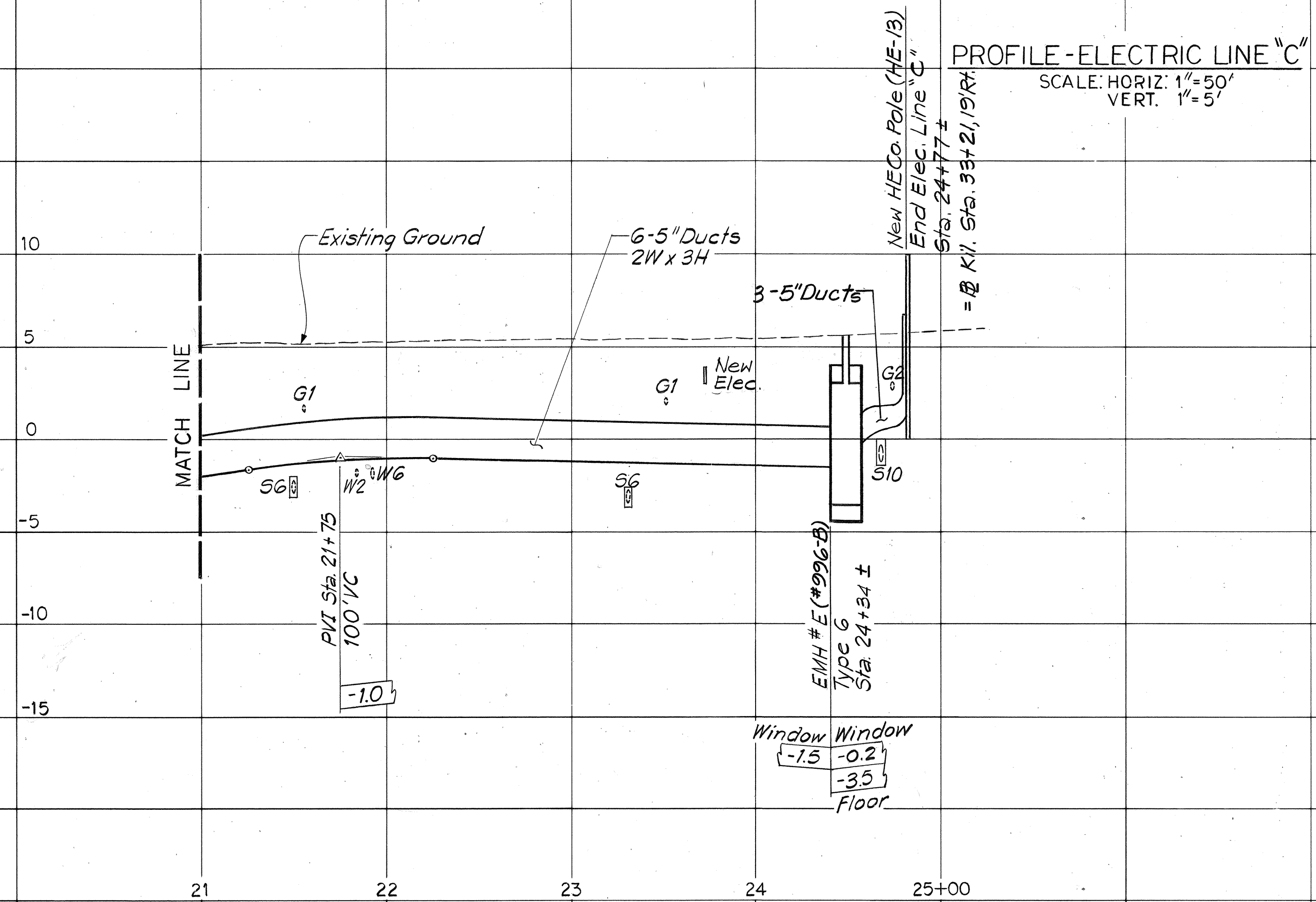
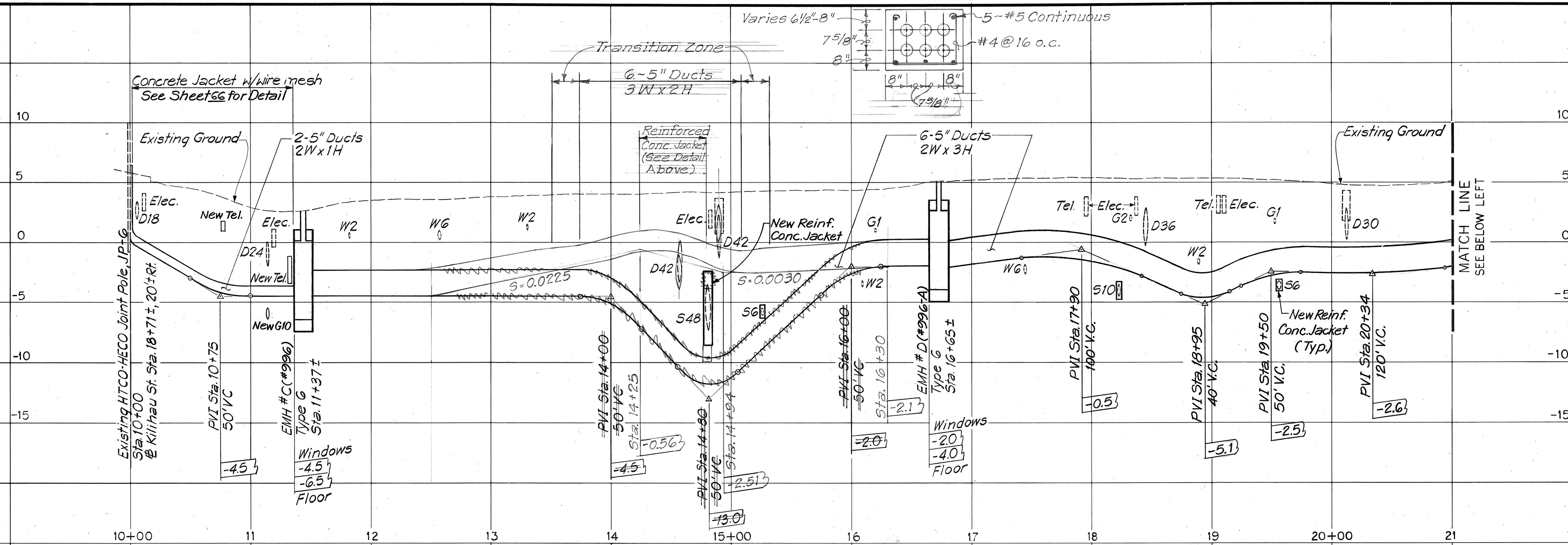


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Werner Beuggert

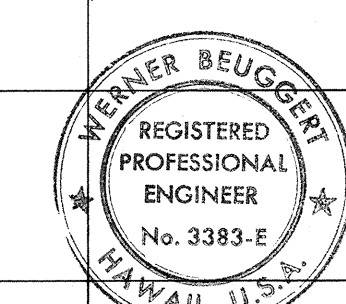
ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(136):17	1976	26	124



2/17/77	Revised Profile of Electric Line 'C' from EMH #E to pole HE-13. Added Profile Elec. Line 'D-3'
DATE	REVISION

APPROVED: *J. Karim* 7/27/76
Hawaiian Electric Co., Inc. Date:

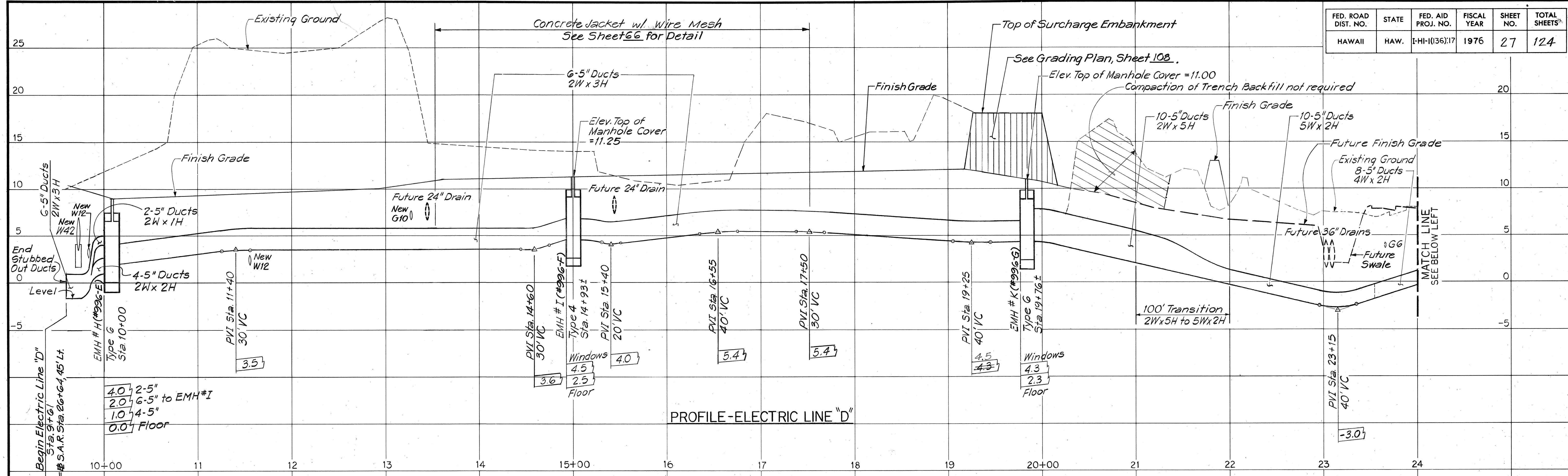


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Werner Beugger

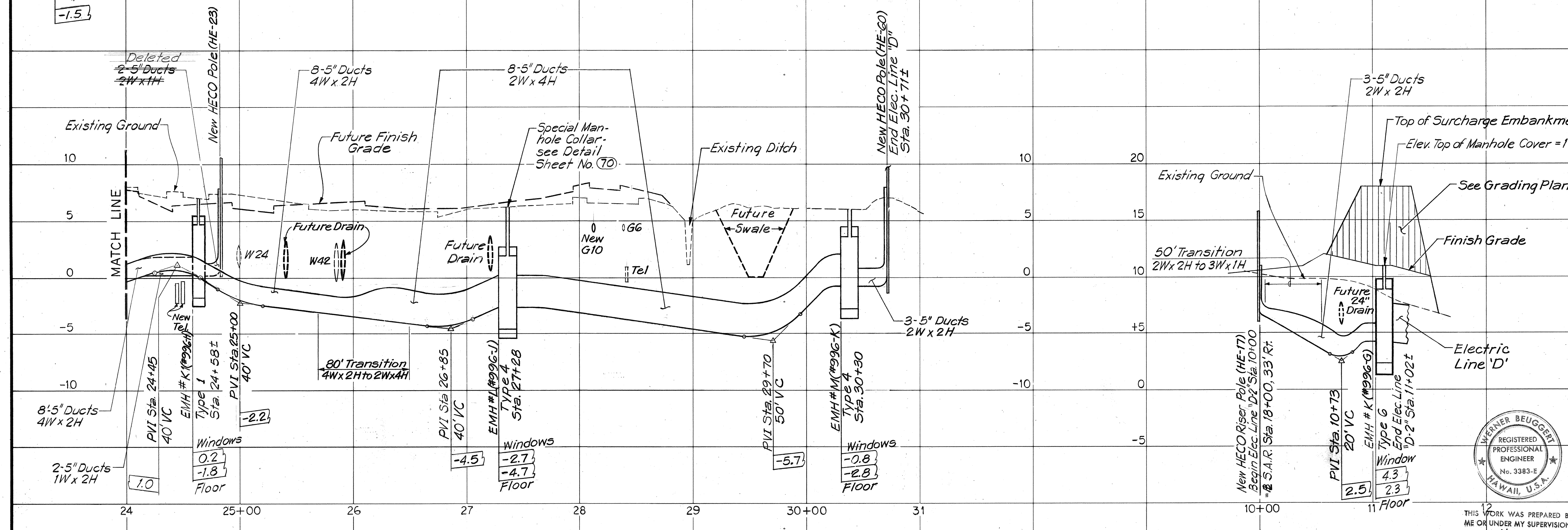
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITIES PROFILE
ELECTRIC LINES "C" & "D-3"
INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(136):17
SCALE: HORIZ.: 1"=50'
VERTICAL: 1"=5'
DATE: July 15, 1976
SHEET No. 8 OF 13 SHEETS

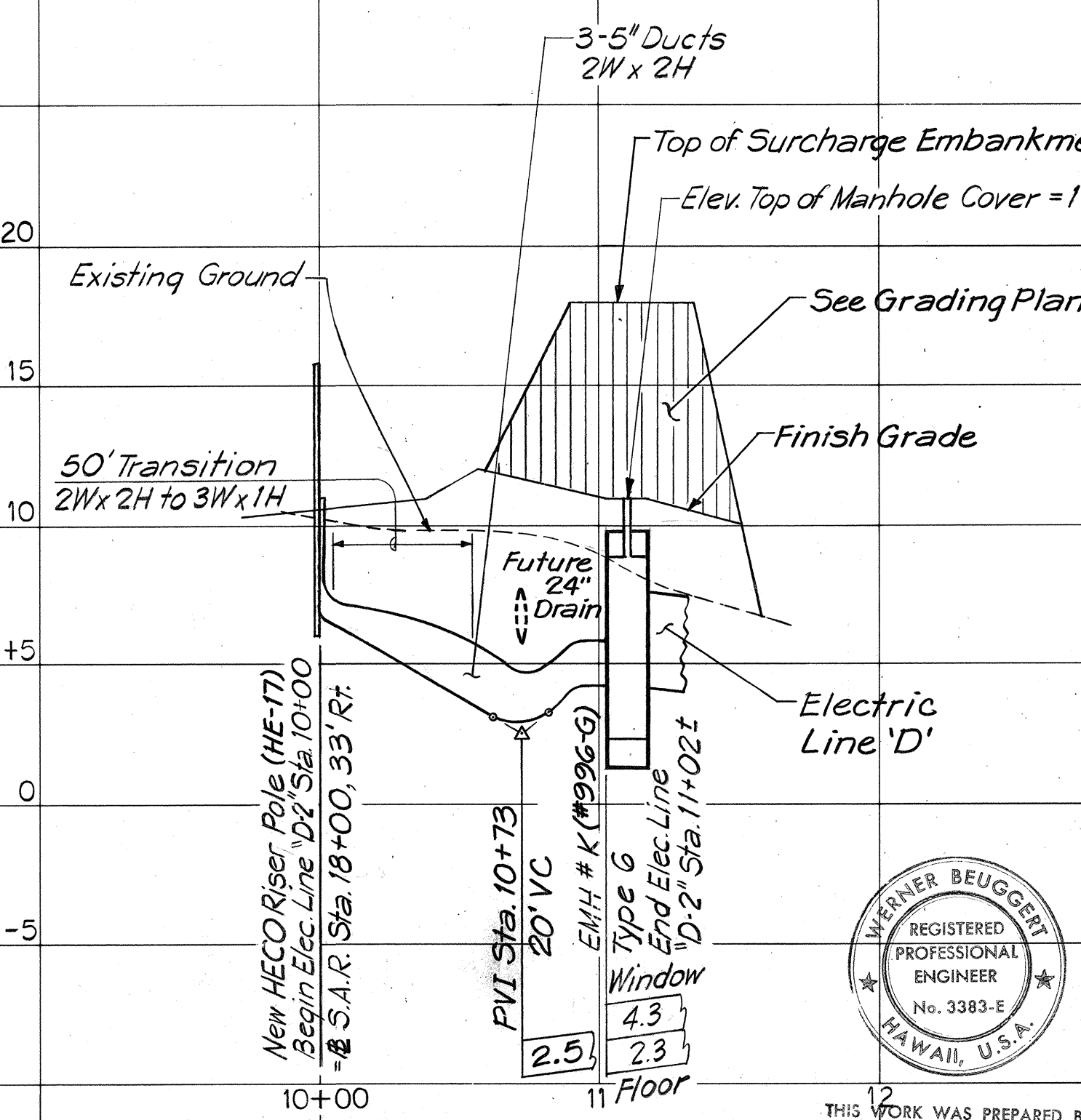
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(136):17	1976	27	124



PROFILE-ELECTRIC LINE "D"



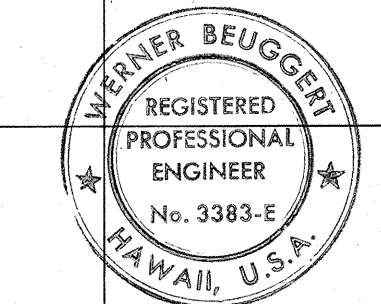
PROFILE-ELECTRIC LINE "D"
SCALE: HORIZ: 1"=50'
VERT: 1"=5'



PROFILE-ELECTRIC LINE "D-2"
SCALE: HORIZ: 1"=50'
VERT: 1"=5'

2/17/77	Revised Profile of Electric Line "D" from Sta. 9+61 to Sta. 10+00
10/6/76	Revised Electric Line 'D' Profile.
DATE	REVISION

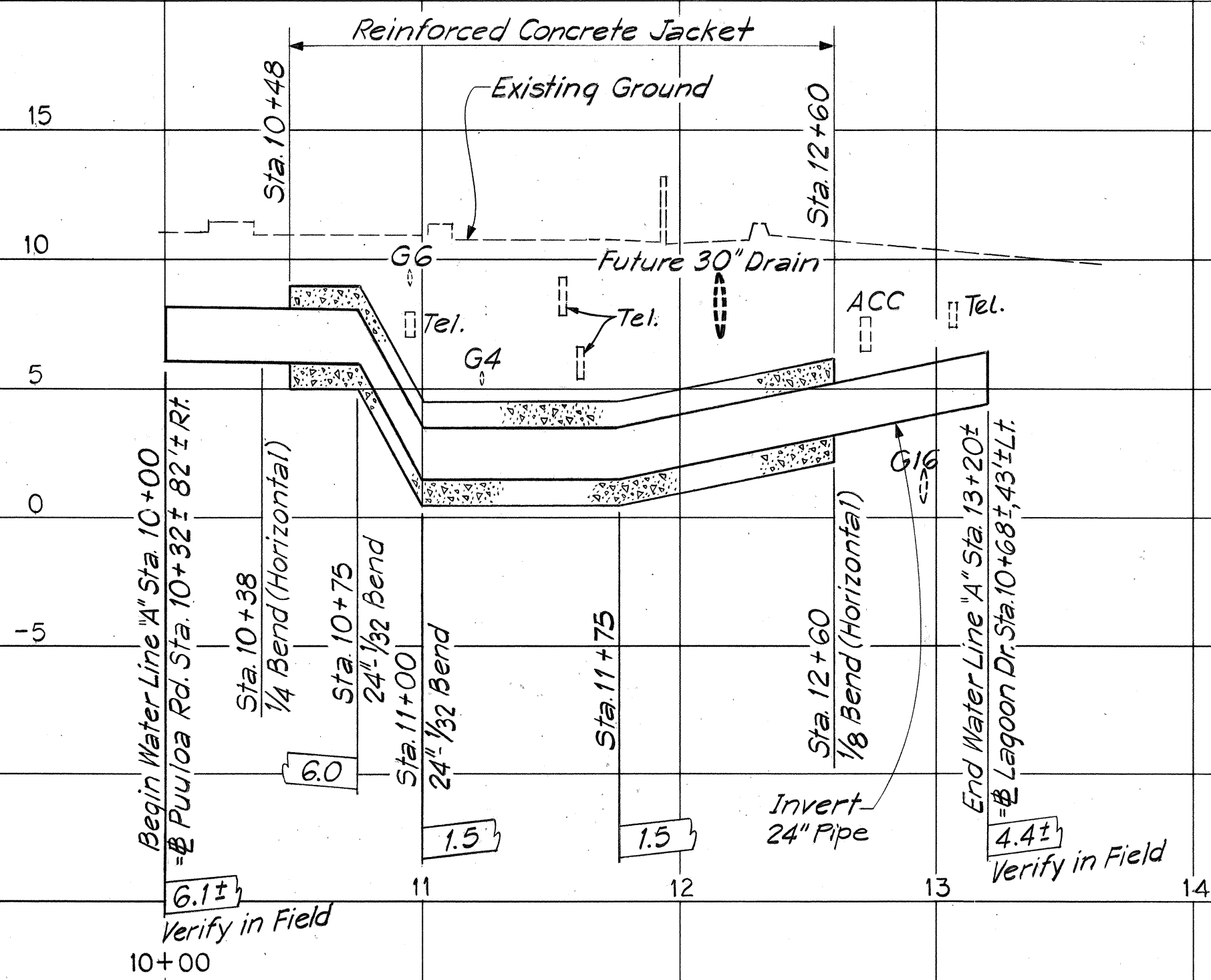
APPROVED: *J. Karunoto* 7/27/76
Hawaiian Electric Co., Inc. Date



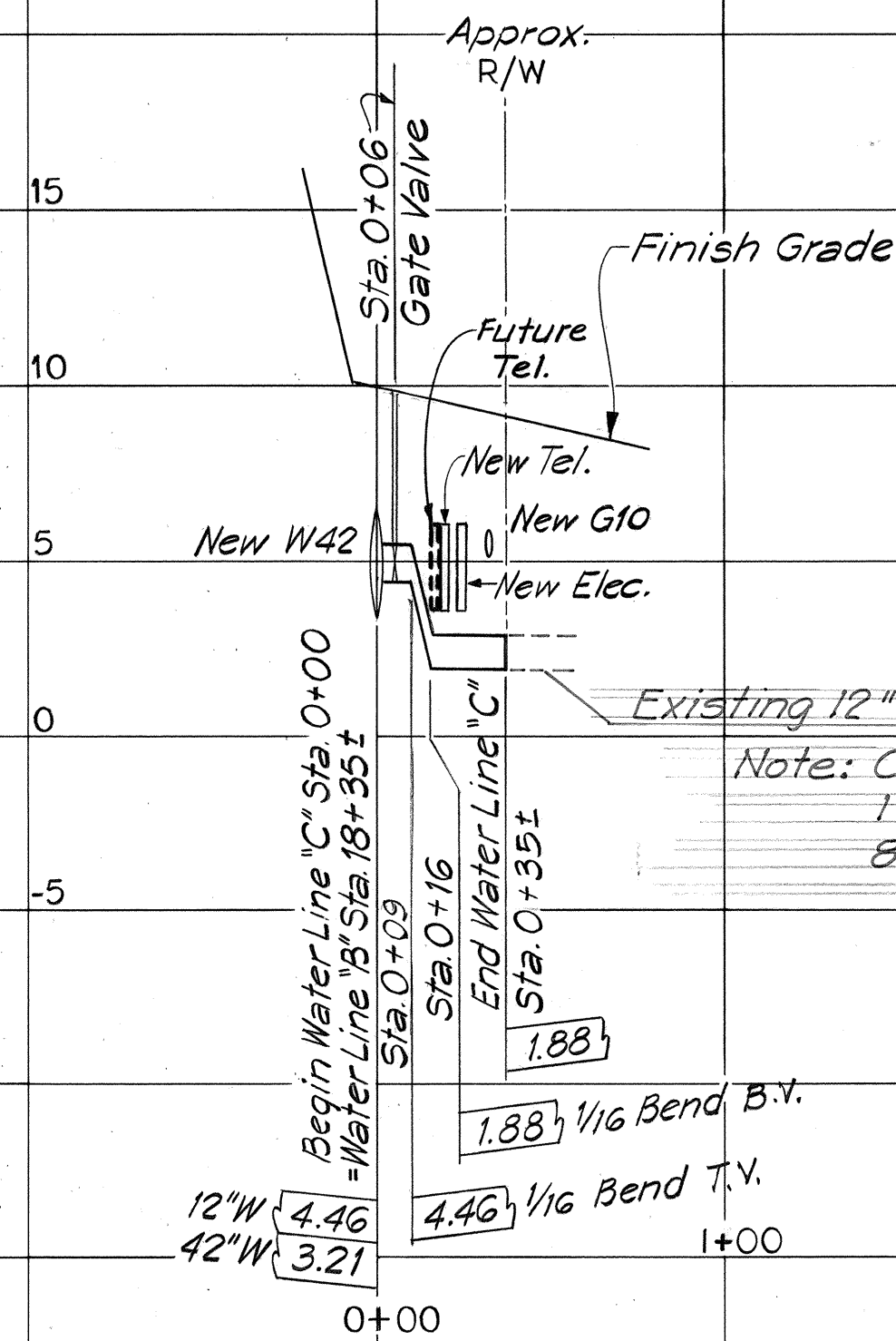
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITIES PROFILE
ELECTRIC LINES "D" & "D-2"
INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(136):17
SCALE: HORIZ: 1"=50'
VERTICAL: 1"=5' DATE: July 15, 1976
SHEET No. 2 OF 13 SHEETS

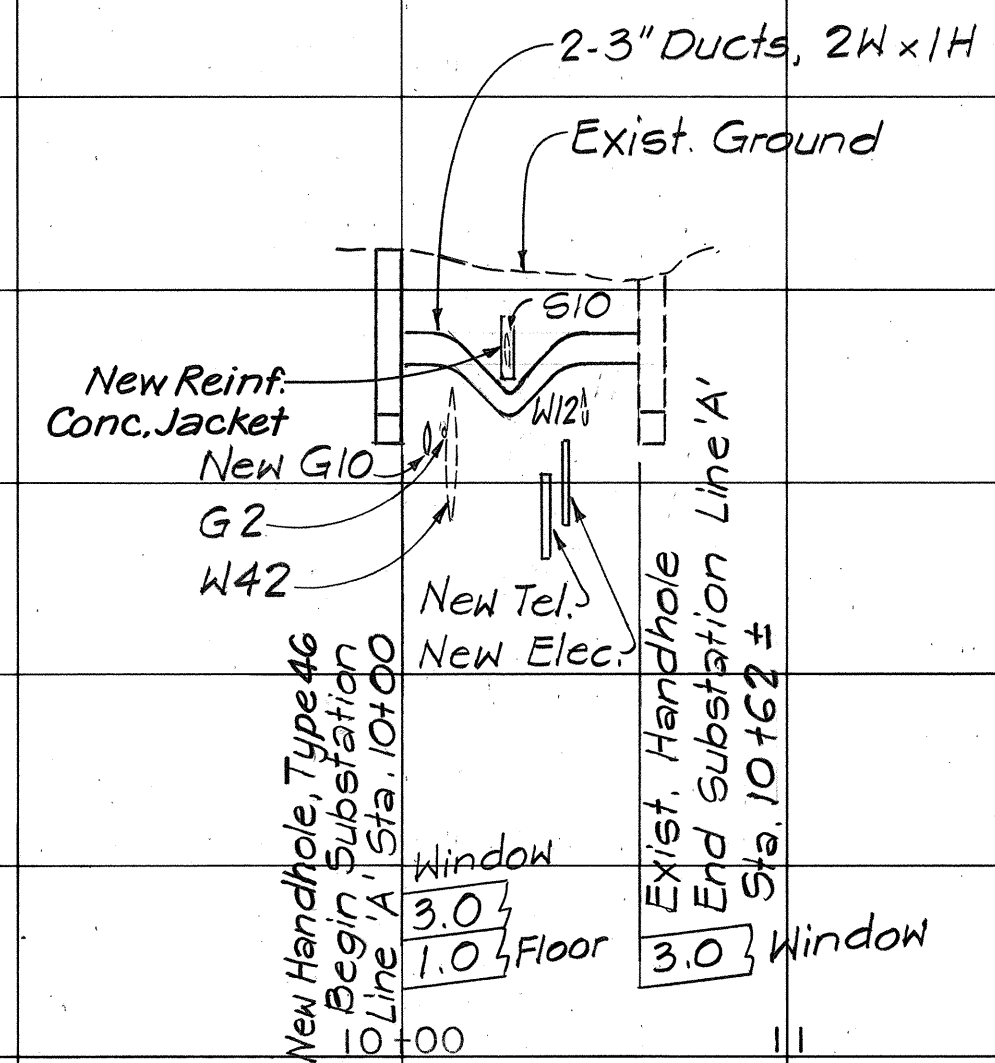
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(136):17	1976	28	124



PROFILE-WATER LINE "A"
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

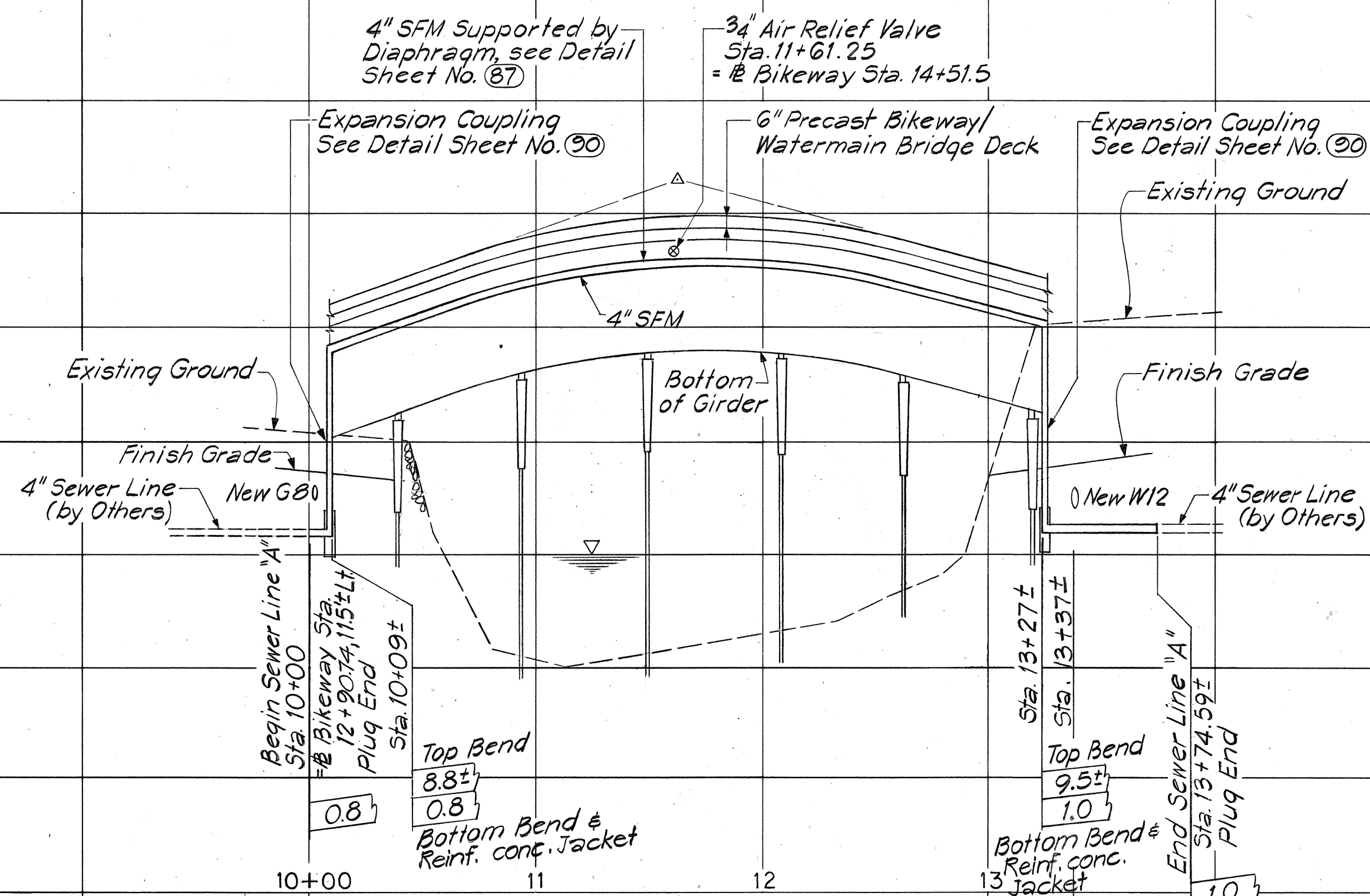


PROFILE-WATER LINE "C"
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'



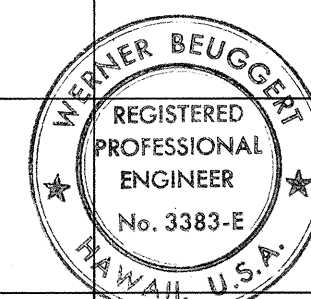
PROFILE - SUBSTATION LINE "A"
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

- NOTES: 1. Concrete Jacket for existing Sewer Line shall be considered incidental to Item 622.02
2. See Sheet 69 for Sanitary Sewer Line Crossing Details.



PROFILE-SEWER LINE "A"
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

NOTE: Concrete Jackets and Bottom Bends at Sta. 10+09± and Sta. 13+27± shall be considered Incidental to Item 625.450.

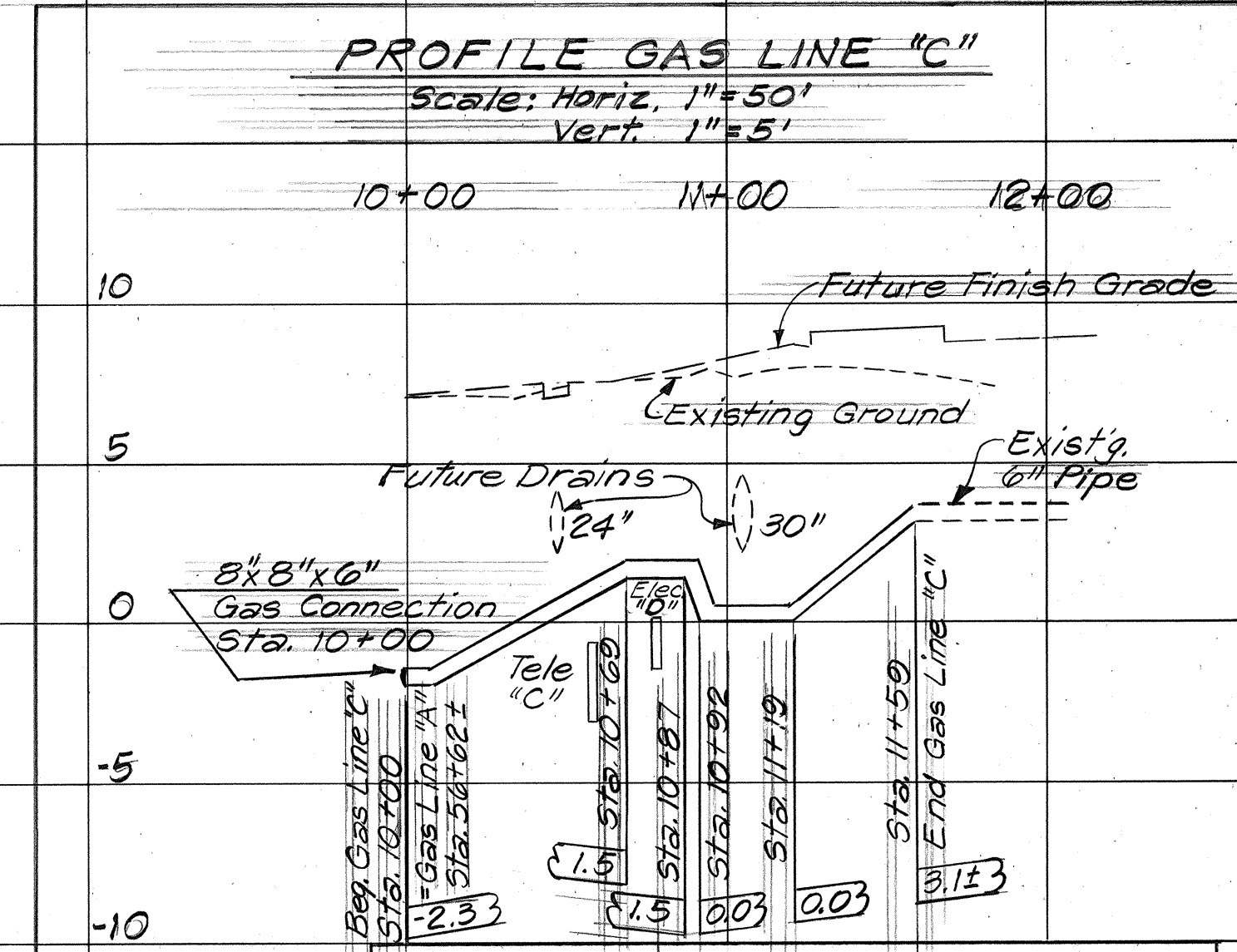
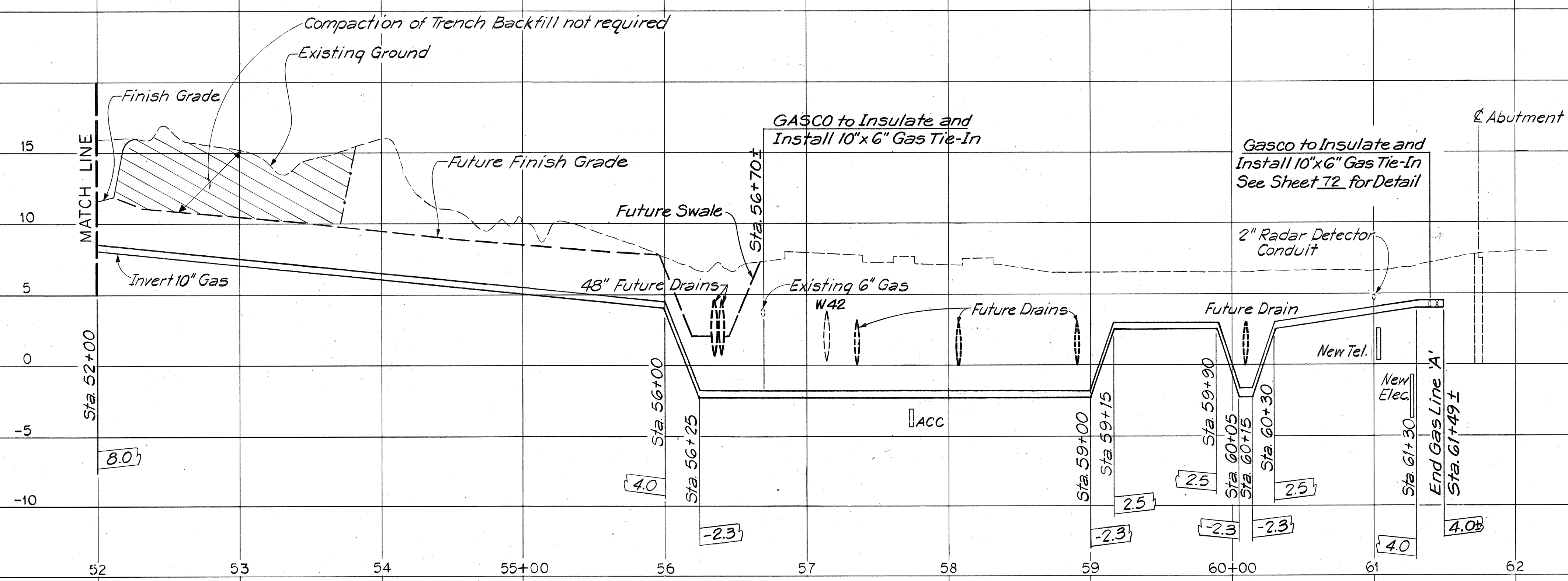
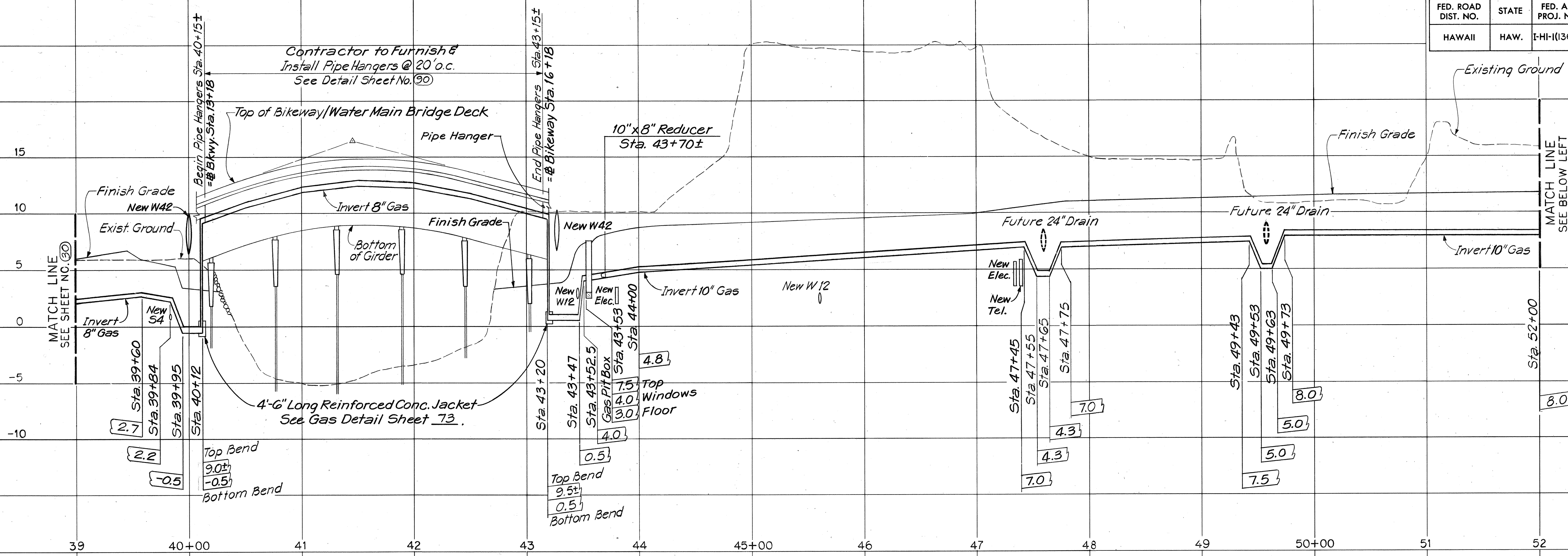


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Werner Beugger

APPROVED:
Walter J. Manikam 5/19/76
Assistant Chief Engineer, B.W.S. Date
Werner Beugger 7/23/76
Refuse Collection & Disposal Div., C&C of Hon. Date

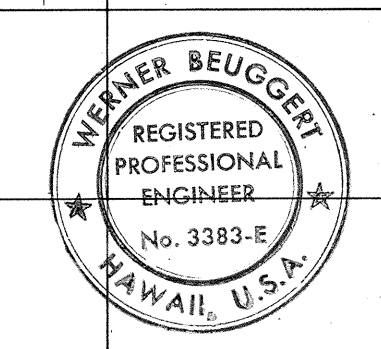
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
UTILITIES PROFILES
WATER LINES A & C - SEWER LINE "A"
SUBSTATION LINE "A"
INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(136):17
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5' DATE: July 15, 1976
SHEET No. 10 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(136):17	1976	31	124



PROFILE - GAS LINE "A" - 8"
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

APPROVED:
[Signature]
Gasco, Inc. 8/4/76
Date



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITIES PROFILE
GAS LINE "A" - 8"

INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(136):17
SCALE: HORIZ. 1"=50'
VERTICAL: 1"=5' DATE: July 15, 1976
SHEET No. 13 OF 13 SHEETS

ORIGINAL PLAN
DATE
DESIGNED BY
CHECKED BY
NOTE BOOK
No.

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
[Signature]