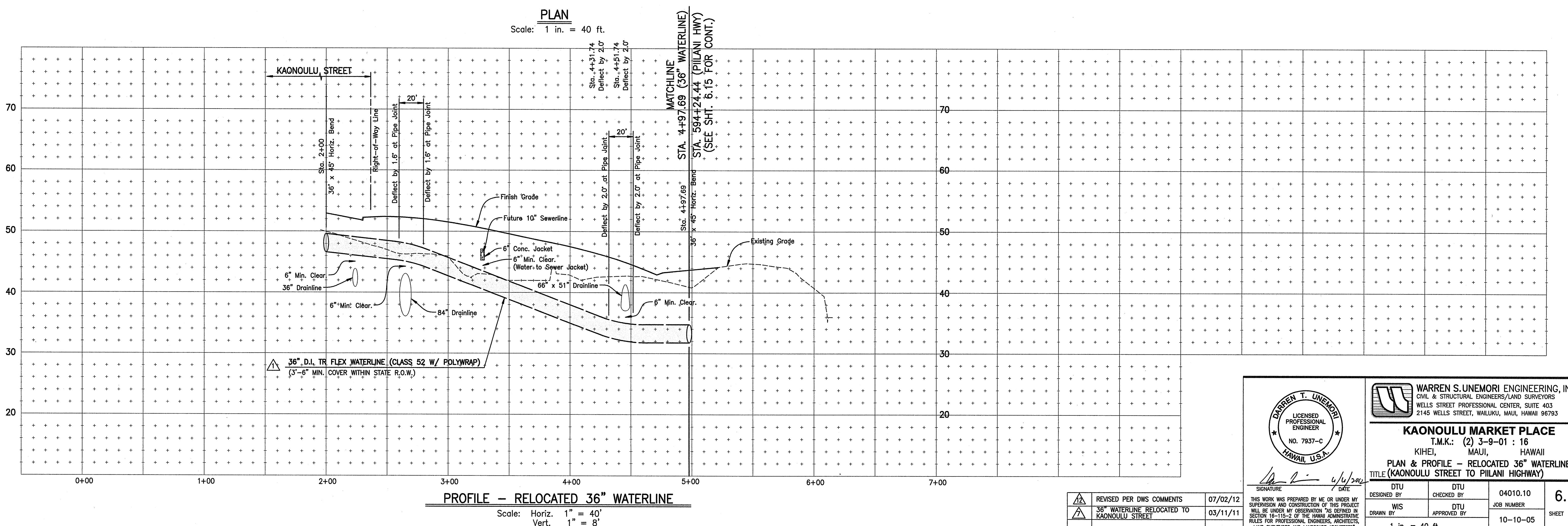
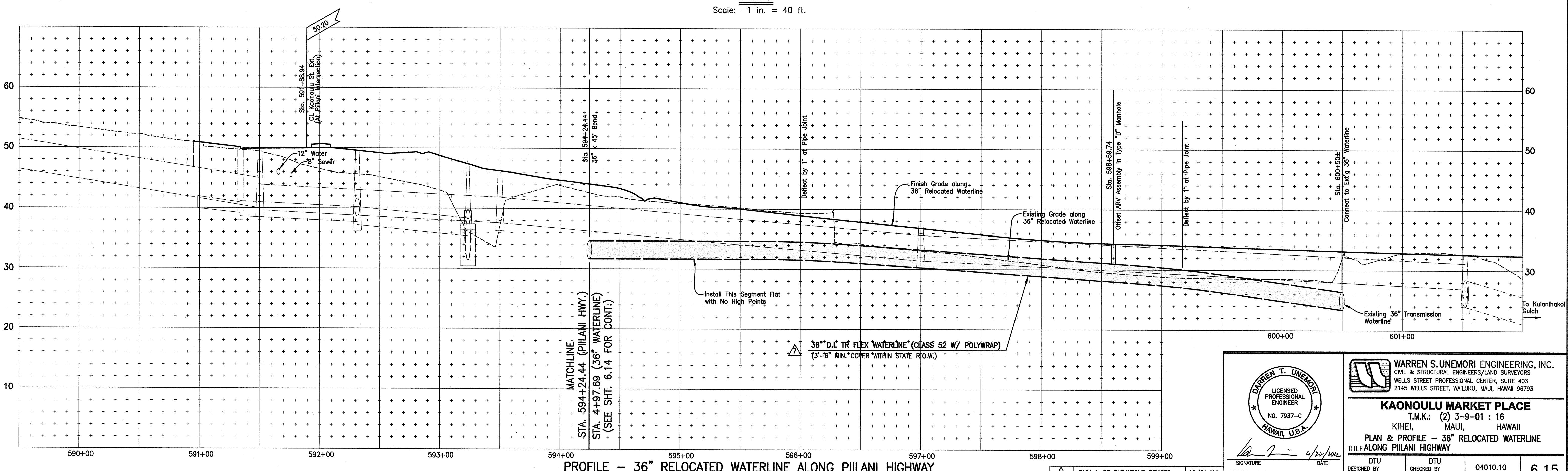
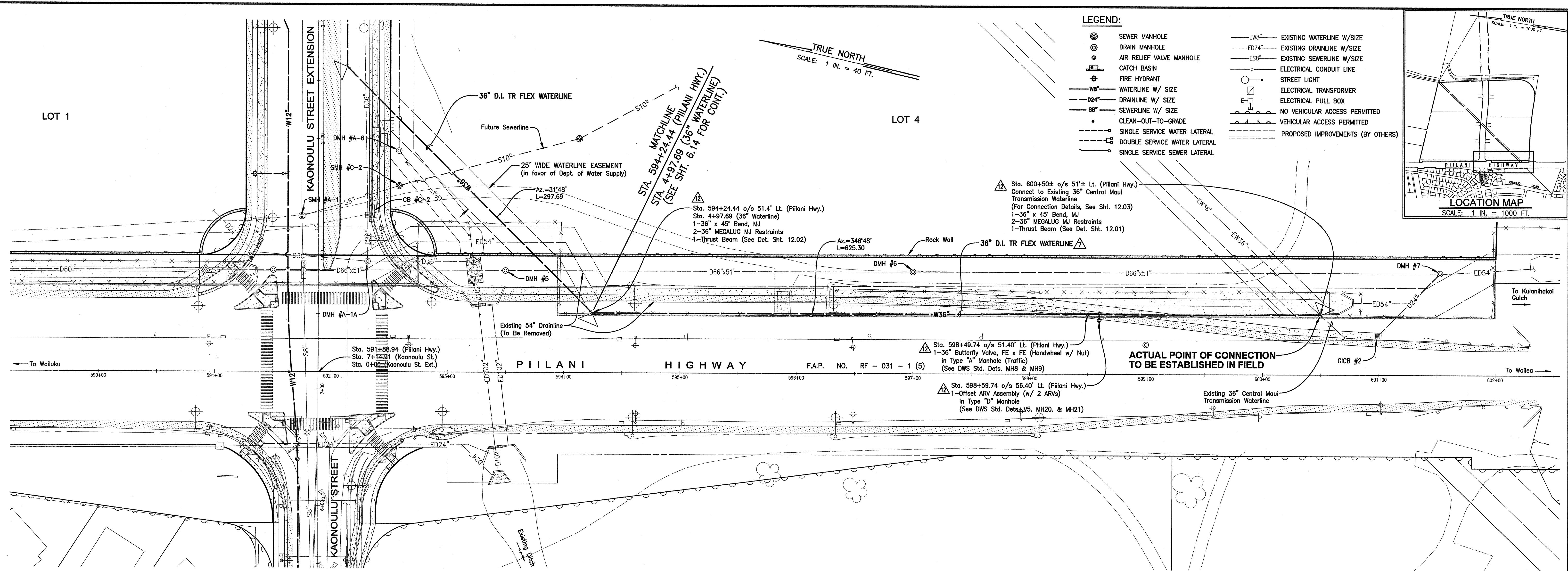


**LEGEND:**

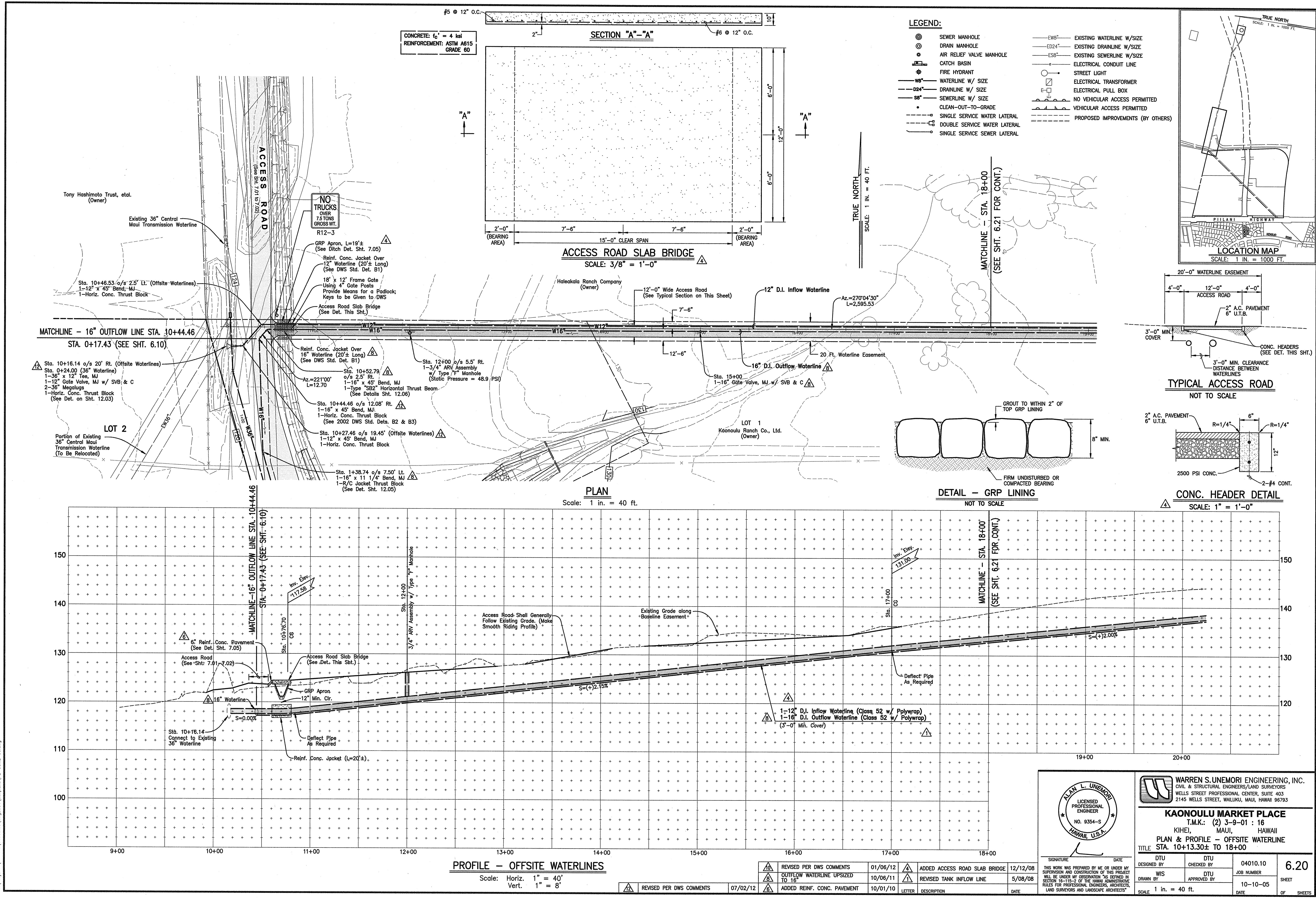
- SEWER MANHOLE
- DRAIN MANHOLE
- ◎ AIR RELIEF VALVE MANHOLE
- CATCH BASIN
- ◆ FIRE HYDRANT
- WATERLINE W/ SIZE
- DRAINLINE W/ SIZE
- SEWERLINE W/ SIZE
- CLEAN-OUT-TO-GRADE
- - - - - SINGLE SERVICE WATER LATERAL
- - - - - DOUBLE SERVICE WATER LATERAL
- - - - - SINGLE SERVICE SEWER LATERAL
- - - - - EXISTING WATERLINE W/ SIZE
- - - - - EXISTING DRAINLINE W/ SIZE
- - - - - EXISTING SEWERLINE W/ SIZE
- ELECTRICAL CONDUIT LINE
- STREET LIGHT
- ELECTRICAL TRANSFORMER
- ELECTRICAL PULL BOX
- NO VEHICULAR ACCESS PERMITTED
- VEHICULAR ACCESS PERMITTED
- PROPOSED IMPROVEMENTS (BY OTHERS)

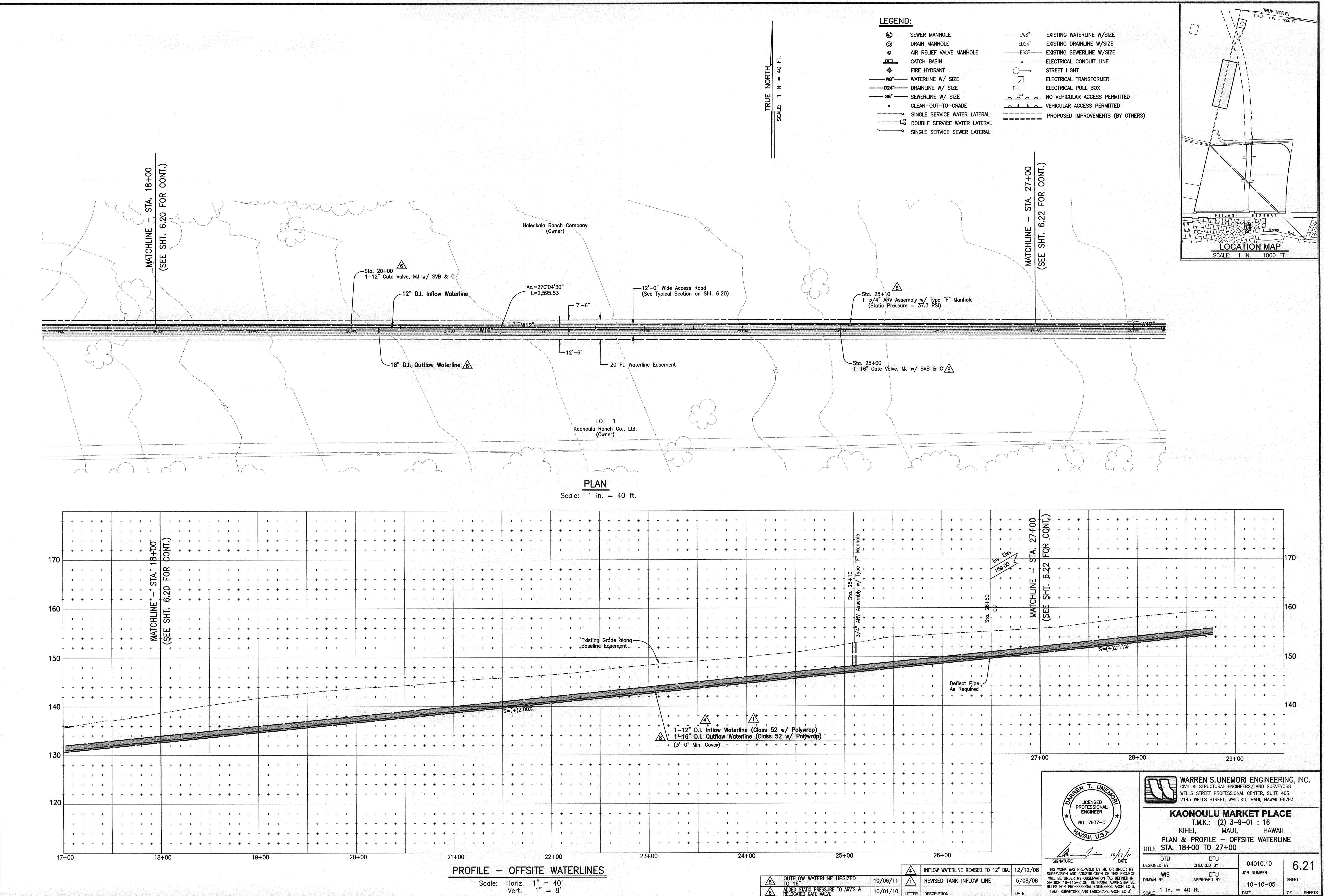




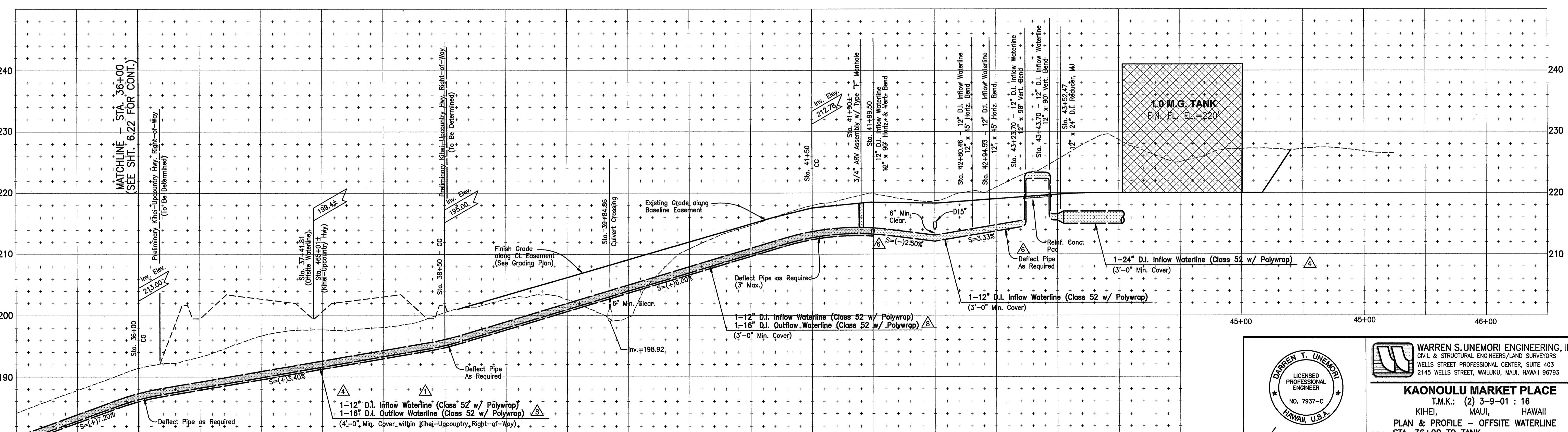
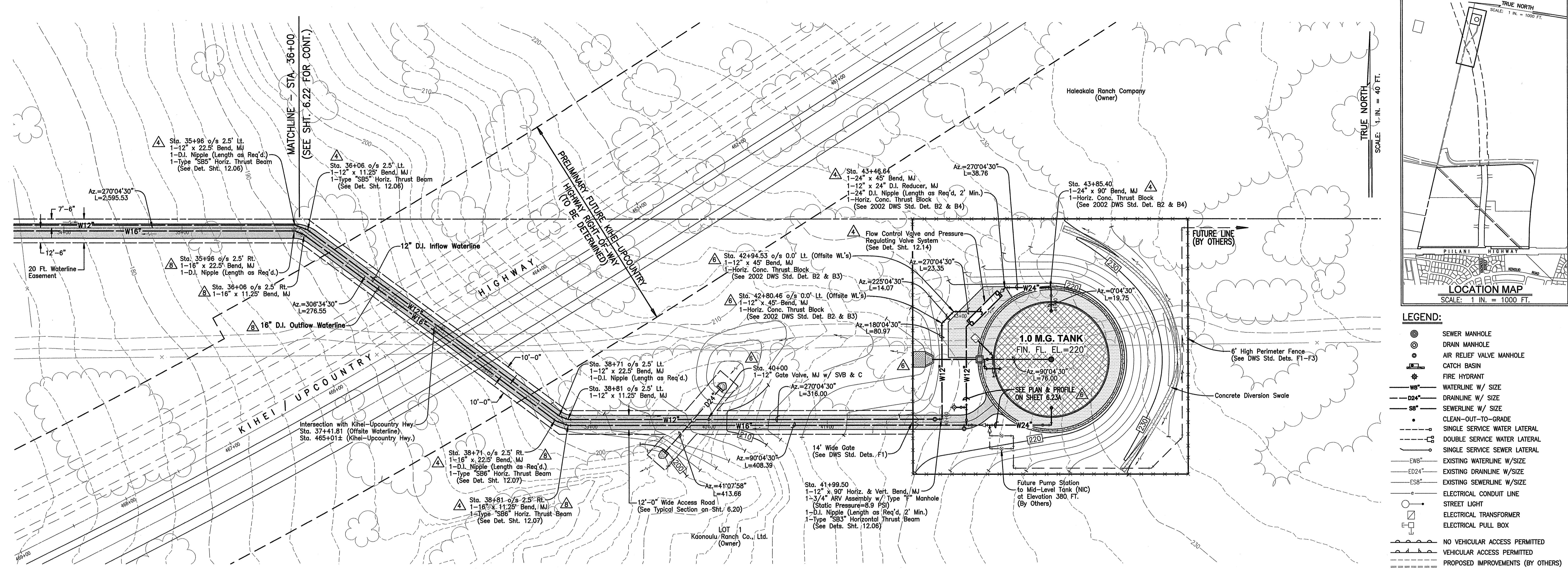
פְּרִימָקָטָה \ נַעֲמָה \ עַתְּדָה \ וְעַתְּדָה \ כְּנָפָדָה \ פְּרִימָקָטָה \ וְעַתְּדָה \ וְעַתְּדָה

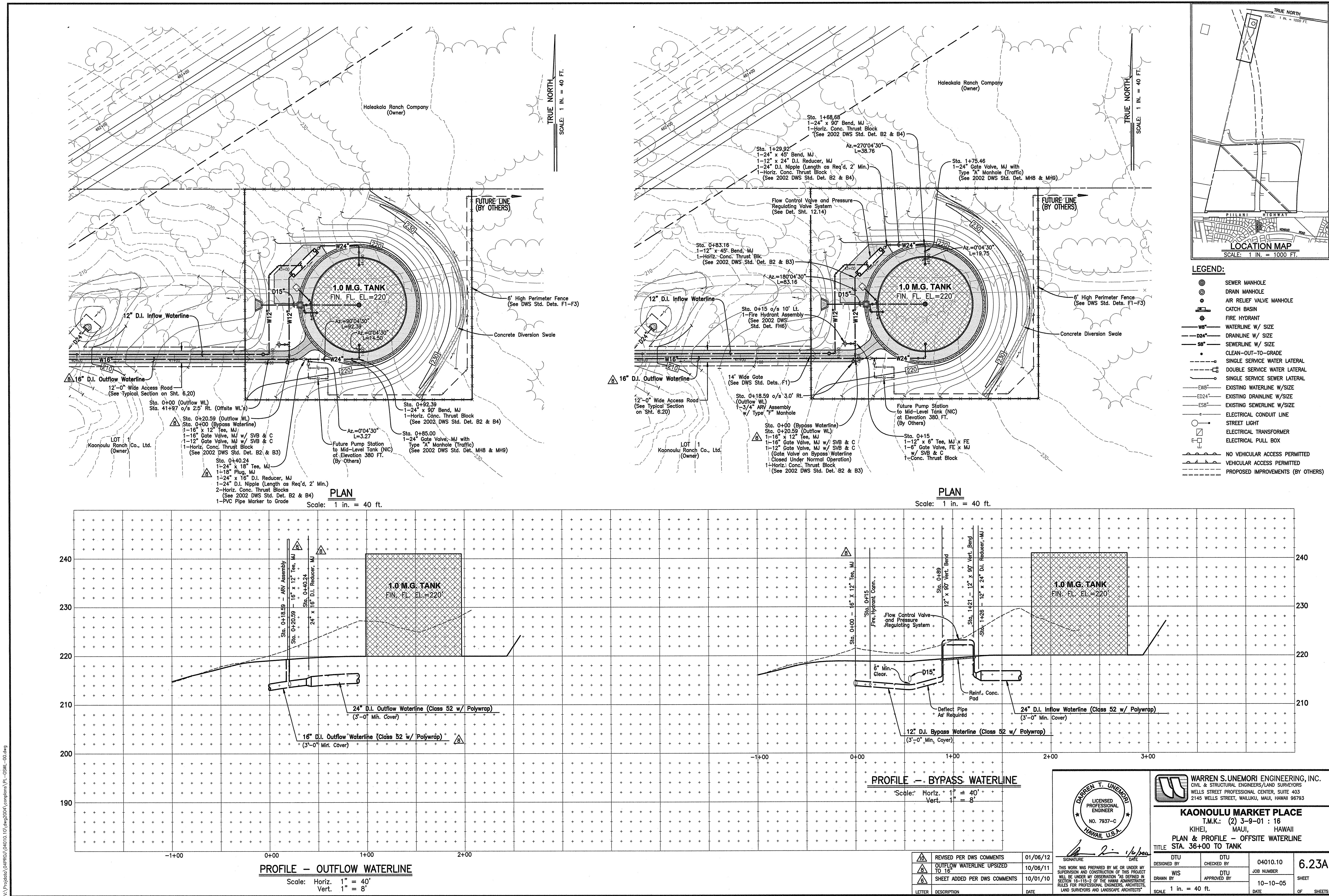
פְּרִימָקָטָה \ נַעֲמָן \ וְעַתְּדָה \ כְּנָפָדָה \ בְּרִיאָה \ יְמִינָה \ עַלְמָן

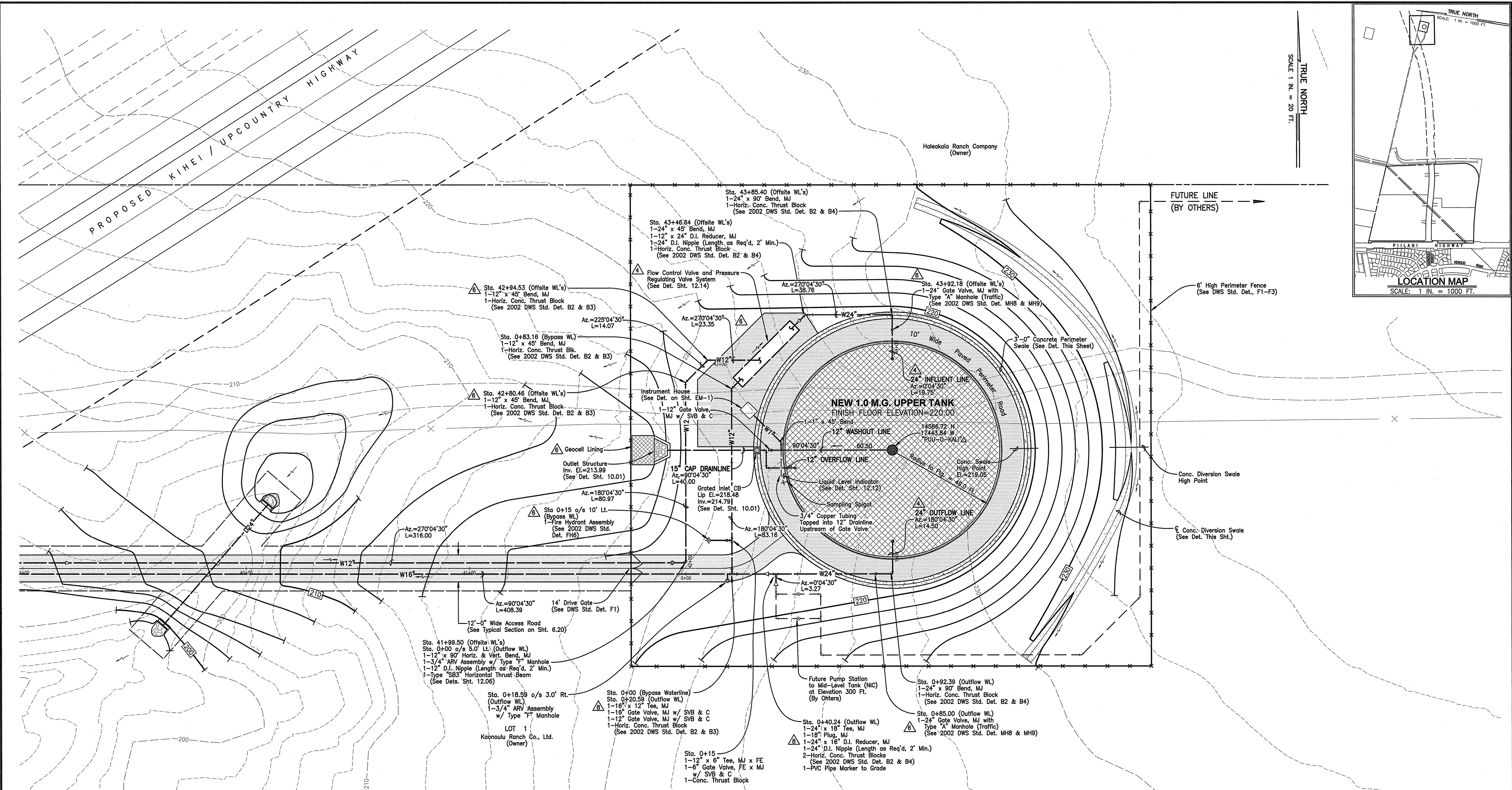












## NOTES:

1. PROPOSED PRELIMINARY RIGHT OF WAY AS SHOWN ON PLAN, OBTAINED FROM SDOT HIGHWAYS DIVISION PRELIMINARY RIGHT-OF-WAY MAP  
- KIHEI/UPCOUNTRY HIGHWAY (SUBJECT TO CHANGE)

## **APPROXIMATE EARTHWORK QUANTITIES**

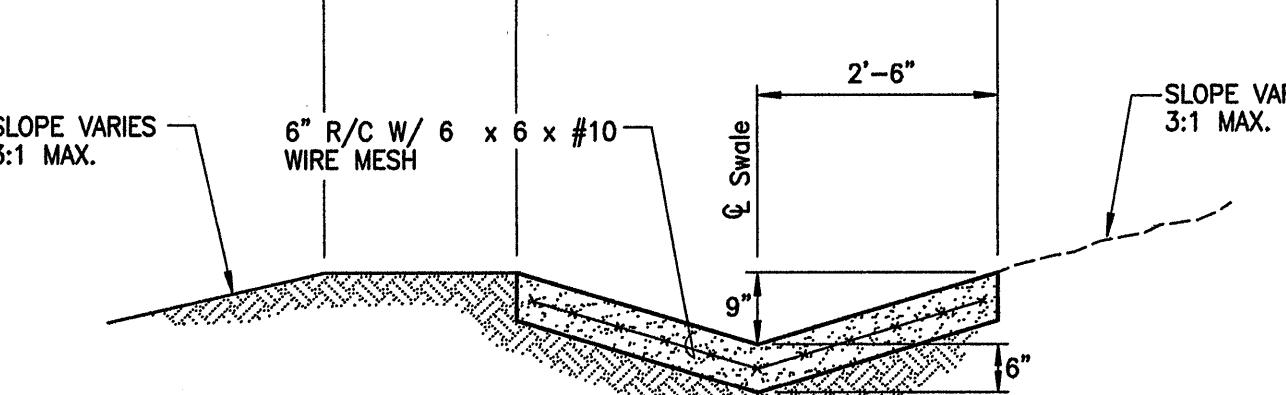
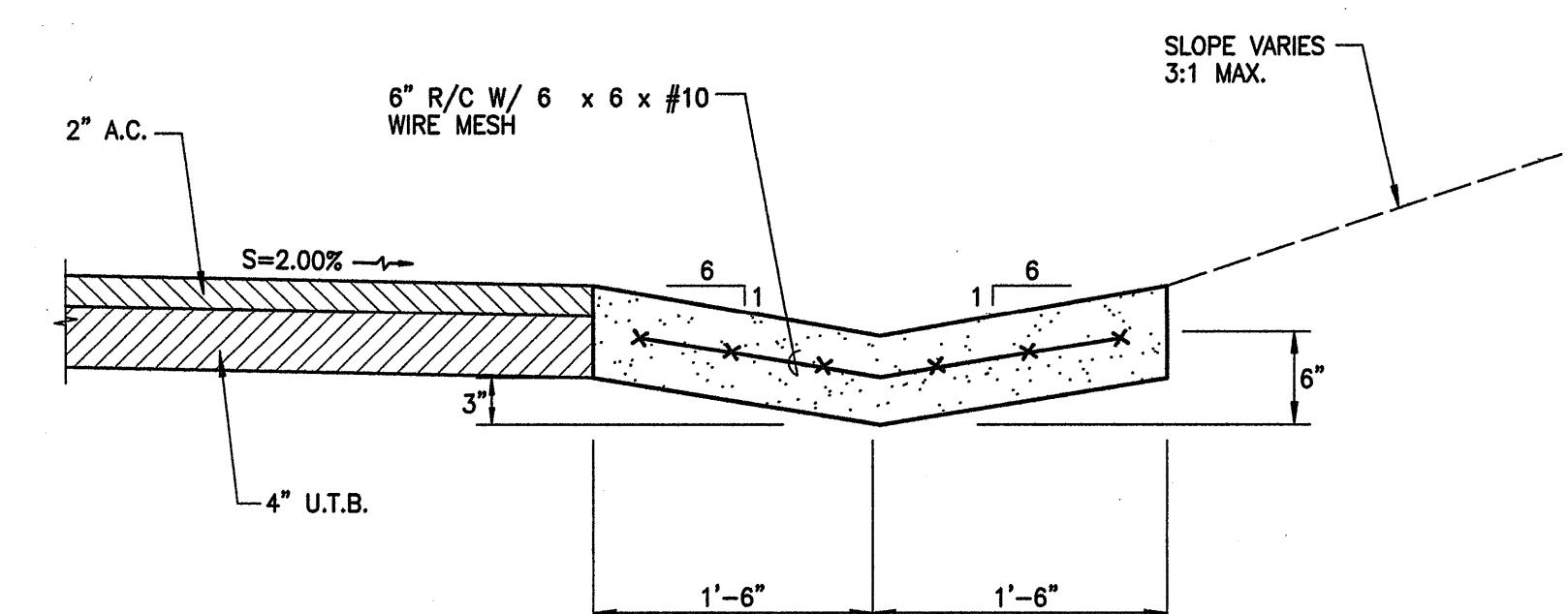
**EXCAVATION = 7,109 CU.YD.  
EMBANKMENT = 1,257 CU YD.**

DETAIL - 3'-0" WIDE PERIMETER SWALE

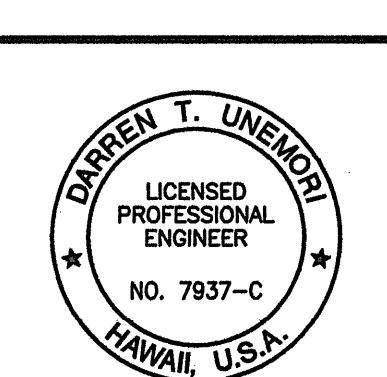
SCALE: 1" = 1'-0"

5 FT. WIDE CONCRETE DIVERSION SWALE

SCALE: 1/2" = 1'-0"



LETTER	DESCRIPTION	DATE
10	Revised Per DWS Comments	01/06/12
8	Outflow Waterline Upsized to 16"	10/06/11
6	Relocated Outlet Structure; Added Standpipe, Type "A" Manholes, and A.C. Pavement; Extended Swale and Concrete Lined	10/01/10
4	Revised Per DWS Comments Added Tank Control Valve	12/12/08



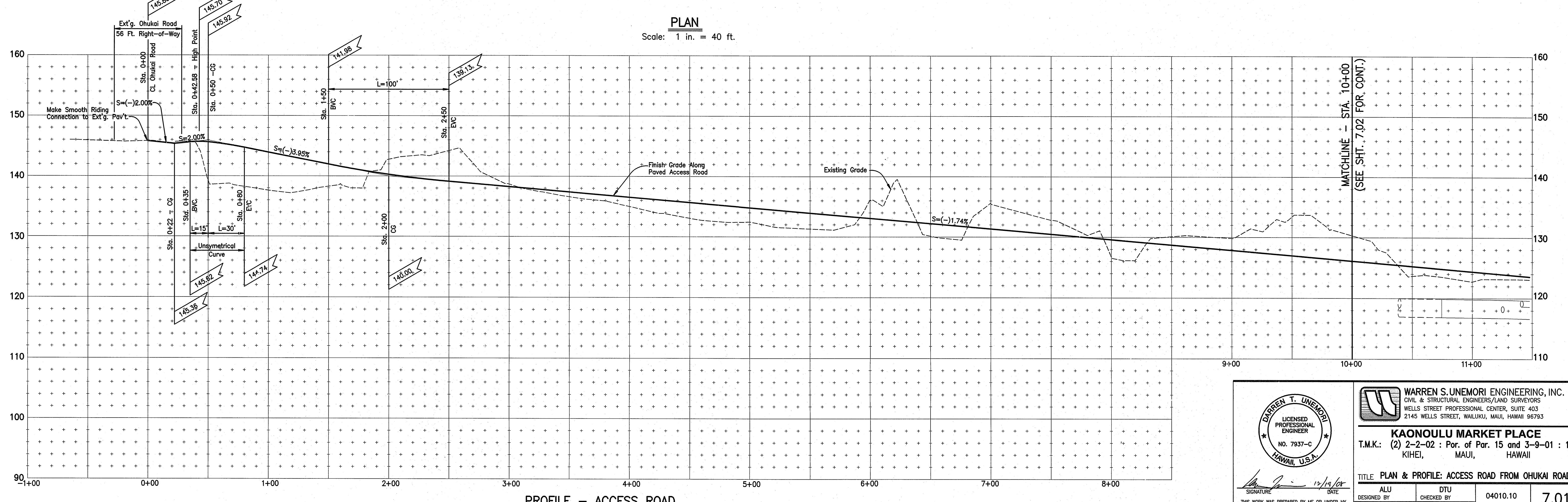
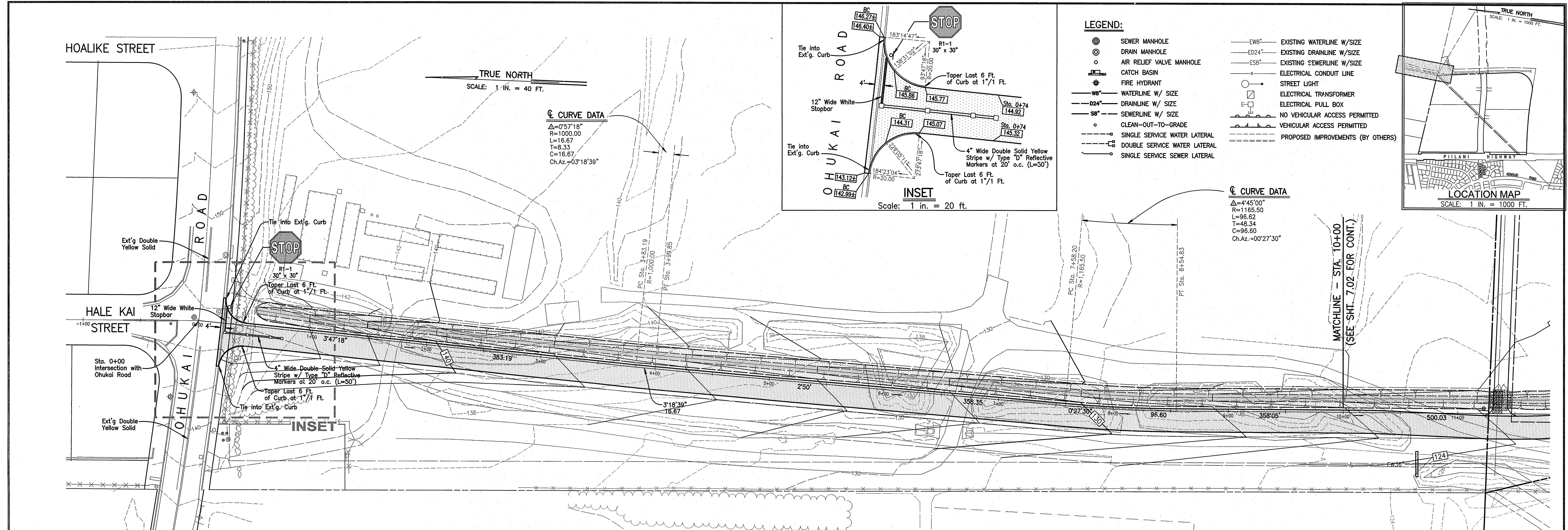
The logo consists of two large, stylized letters 'W' and 'U' in a bold, italicized font, positioned to the left of the company name.

**AONOULU MARKET PLACE**  
T.M.K.: (2) 3-9-01 : 16  
**KIHEI MAUI HAWAII**

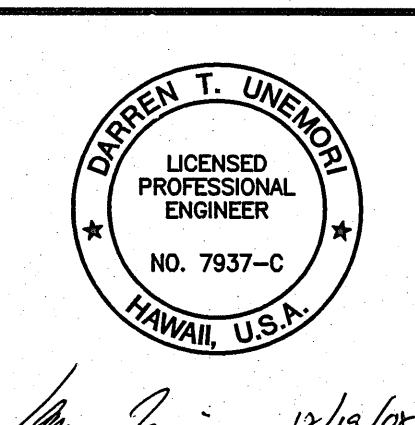
#### - SITE PLAN - 10 MG WATER TANK

10

DTU NED BY	DTU CHECKED BY	04010.10 JOB NUMBER	6.24 SHEET OF SHEETS
WIS N BY	DTU APPROVED BY		
1 in. = 20 ft.		10-10-05 DATE	



04010.10 / dwg2004 / complans / pl-acc-ohukai.dwg



The logo consists of a stylized letter 'W' composed of two thick, curved lines forming a V-shape, enclosed within a square frame with a dotted border.

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# **KAONOULU MARKET PLACE**

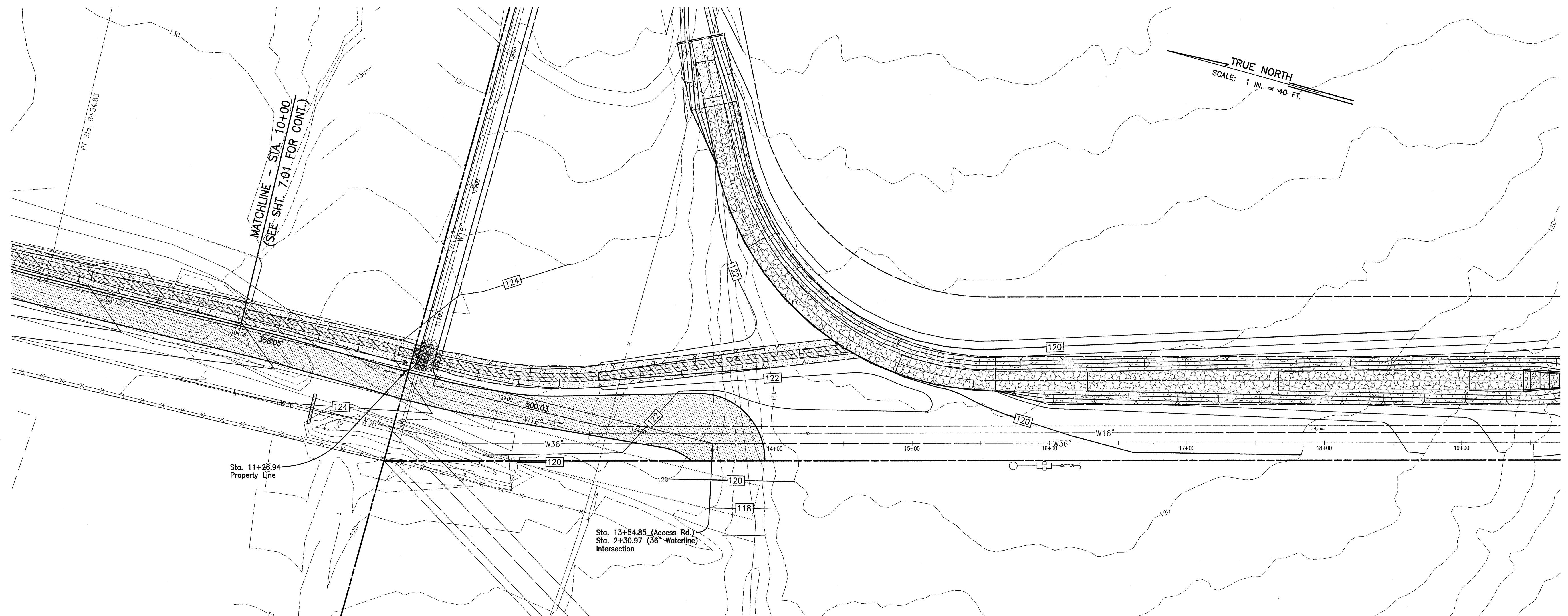
**T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16**  
**KIHEI, MAUI, HAWAII**

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**TITLE PLAN & PROFILE: ACCESS ROAD FROM OHUKAI ROAD**

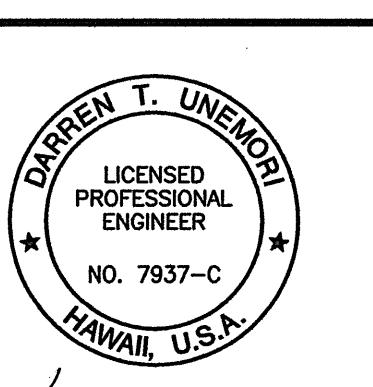
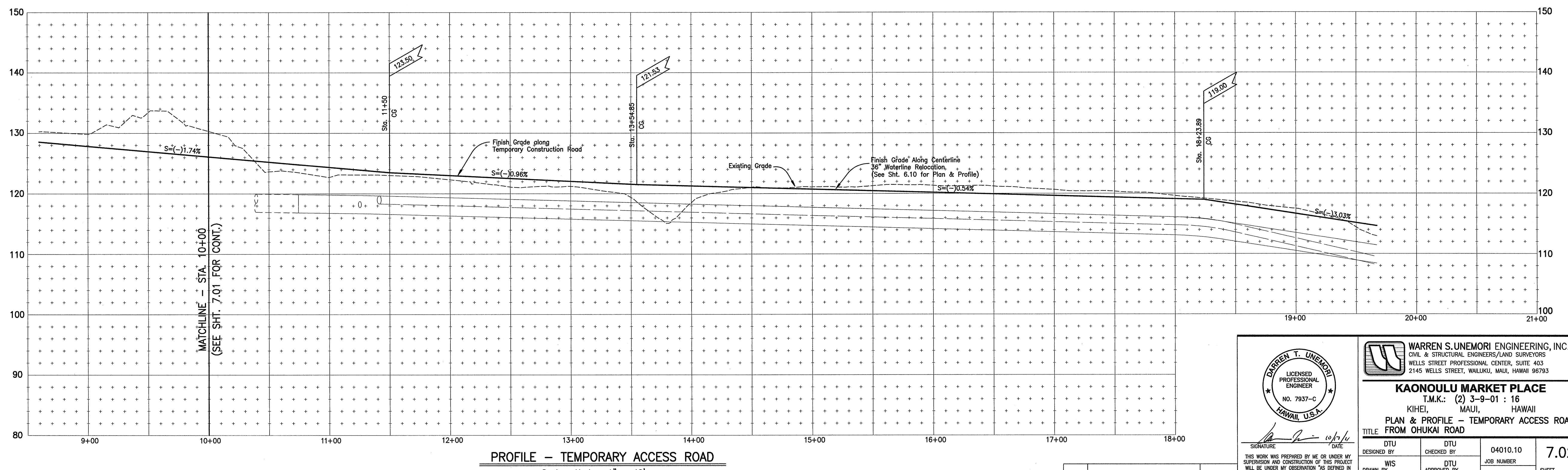
ALU DESIGNED BY	DTU CHECKED BY	04010.10 JOB NUMBER	7.01
WIS DRAWN BY	DTU APPROVED BY	10-10-05 DATE	SHEET
SCALE 1 in. = 40 ft.			

SCALE \_\_\_\_\_ DATE \_\_\_\_\_ OF SHEETS \_\_\_\_\_



PLAN

Scale: 1 in. = 40 ft.



The logo consists of a stylized letter 'W' positioned above a letter 'U', with horizontal lines connecting them to form a rectangular frame. The entire logo is rendered in black and white.

**WARREN S. UNEMORI ENGINEERING, INC.**  
CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS  
WELLS STREET PROFESSIONAL CENTER, SUITE 403  
2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

**KAONOULU MARKET PLACE**  
T.M.K. (S) 7-6-61-16

I.M.K.: (2) 3-9-01 : 16  
KIHEI, MAUI, HAWAII  
PLAN & PROFILE - TEMPORARY ACCESS ROAD

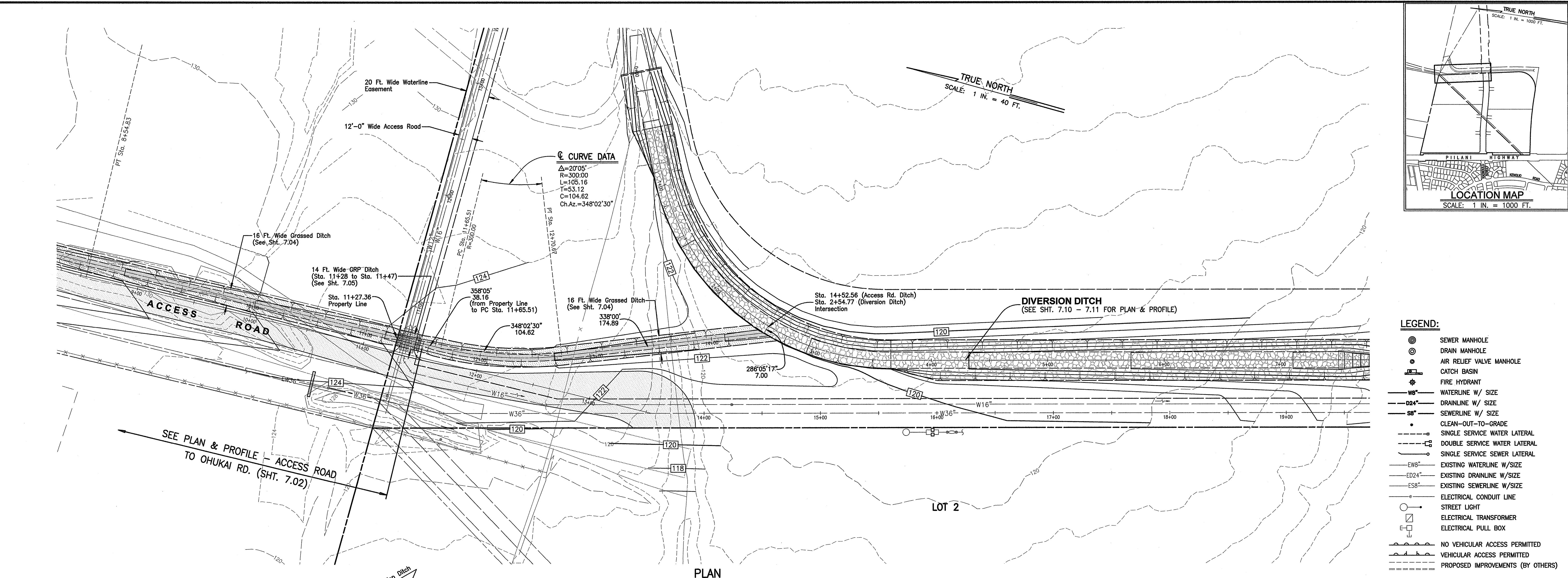
FROM OHUKAI ROAD

DIO GNED BY	DIO CHECKED BY	04010.10	7.0
----------------	-------------------	----------	-----

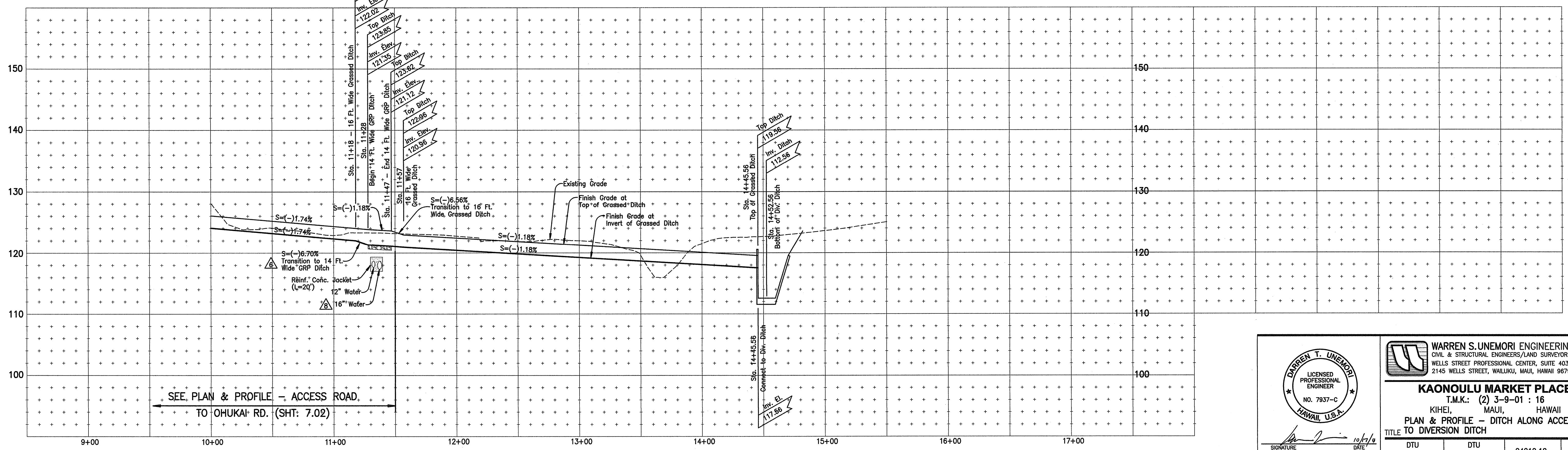
WIS VN BY	DTU APPROVED BY	JOB NUMBER	SHEET
		10-10-05	

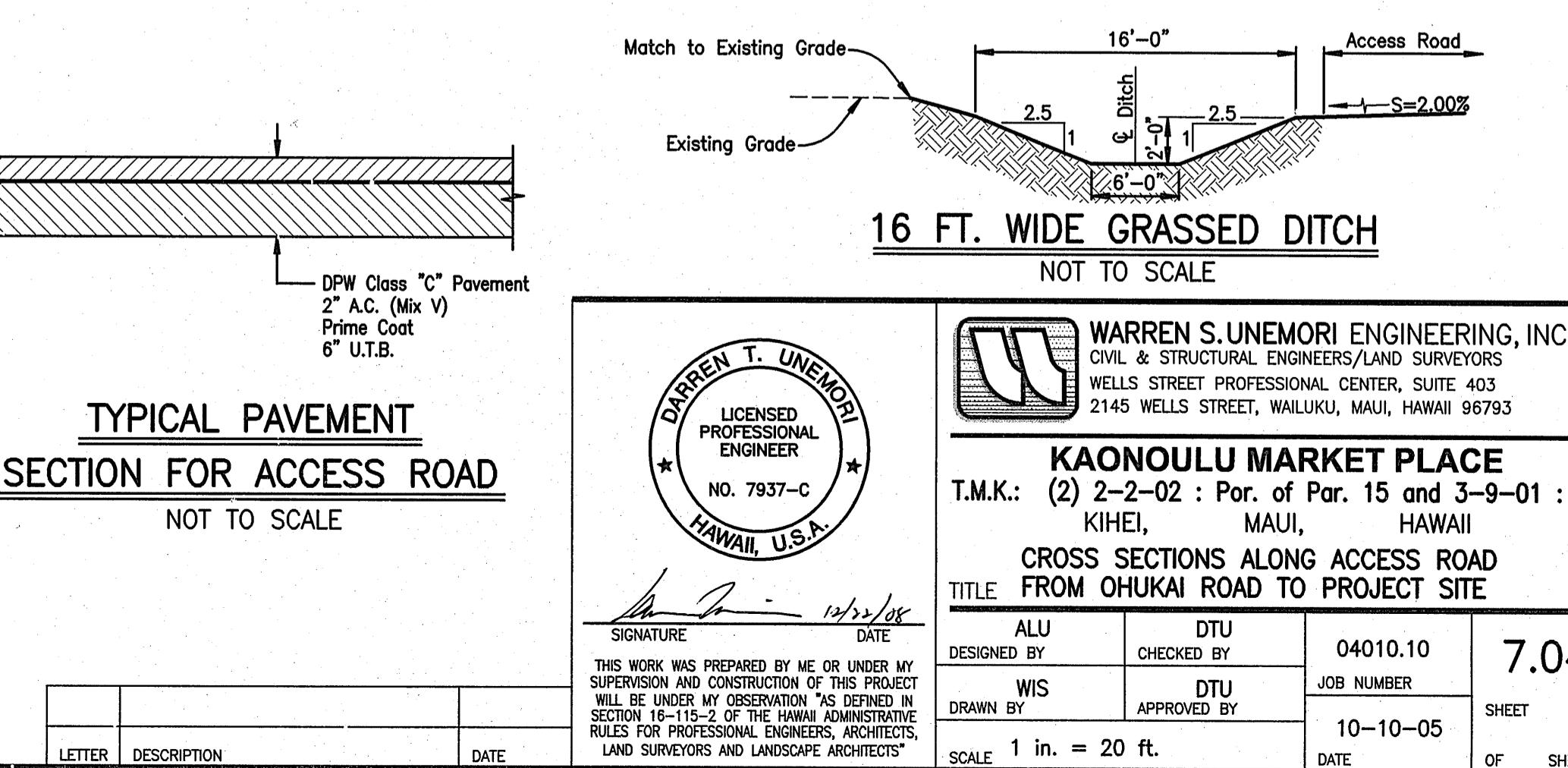
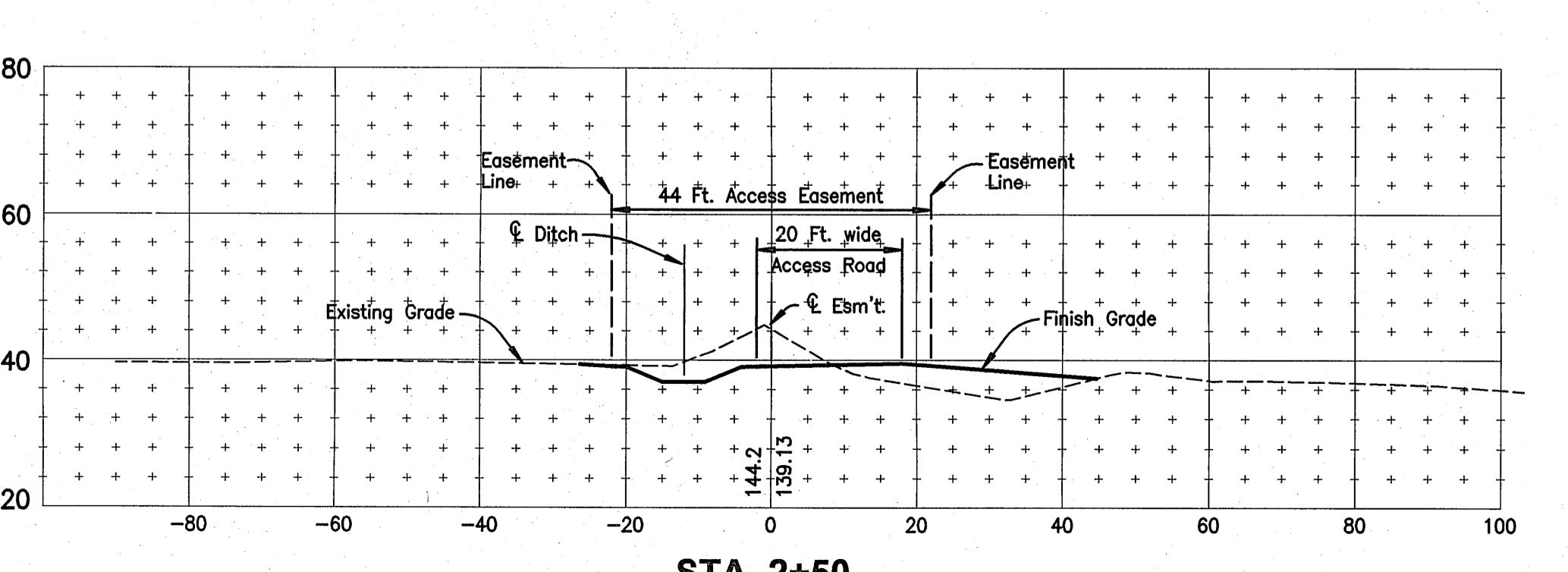
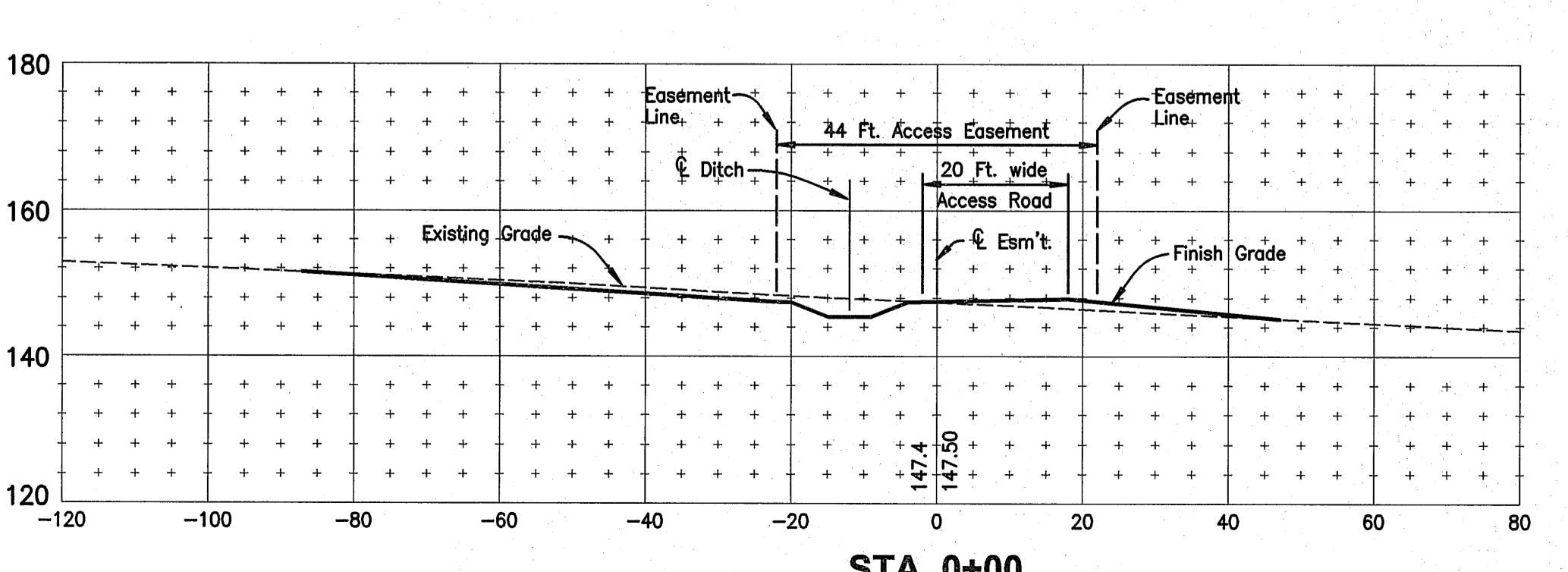
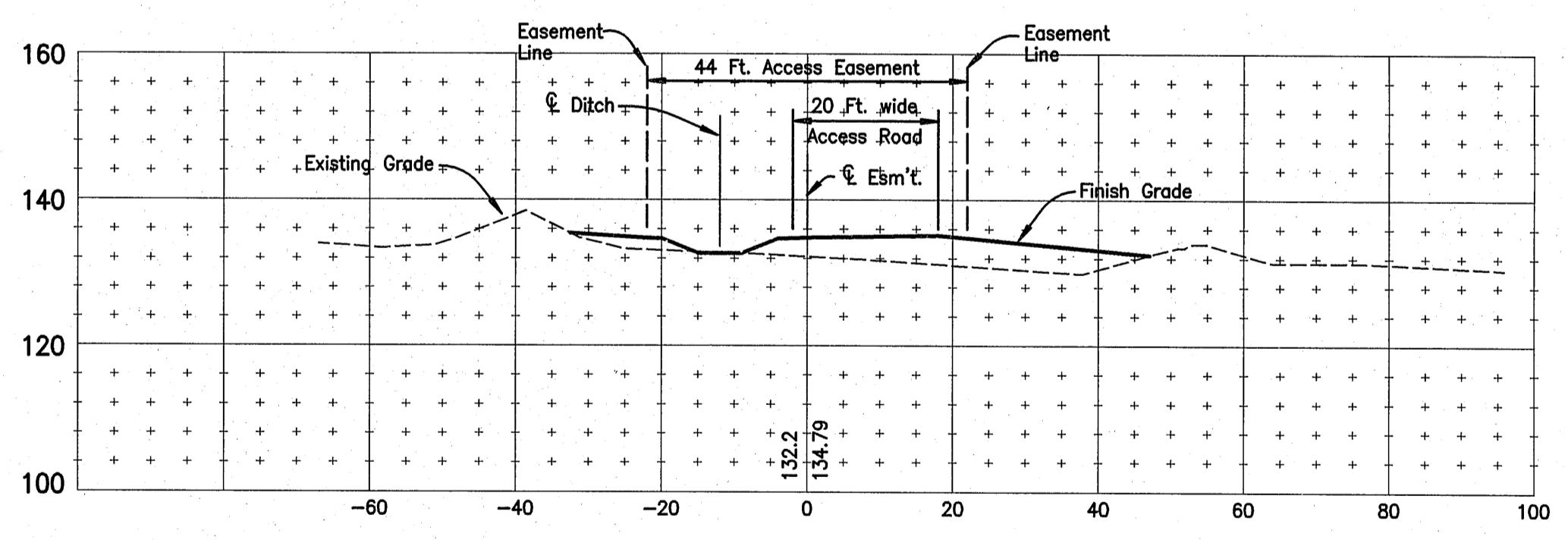
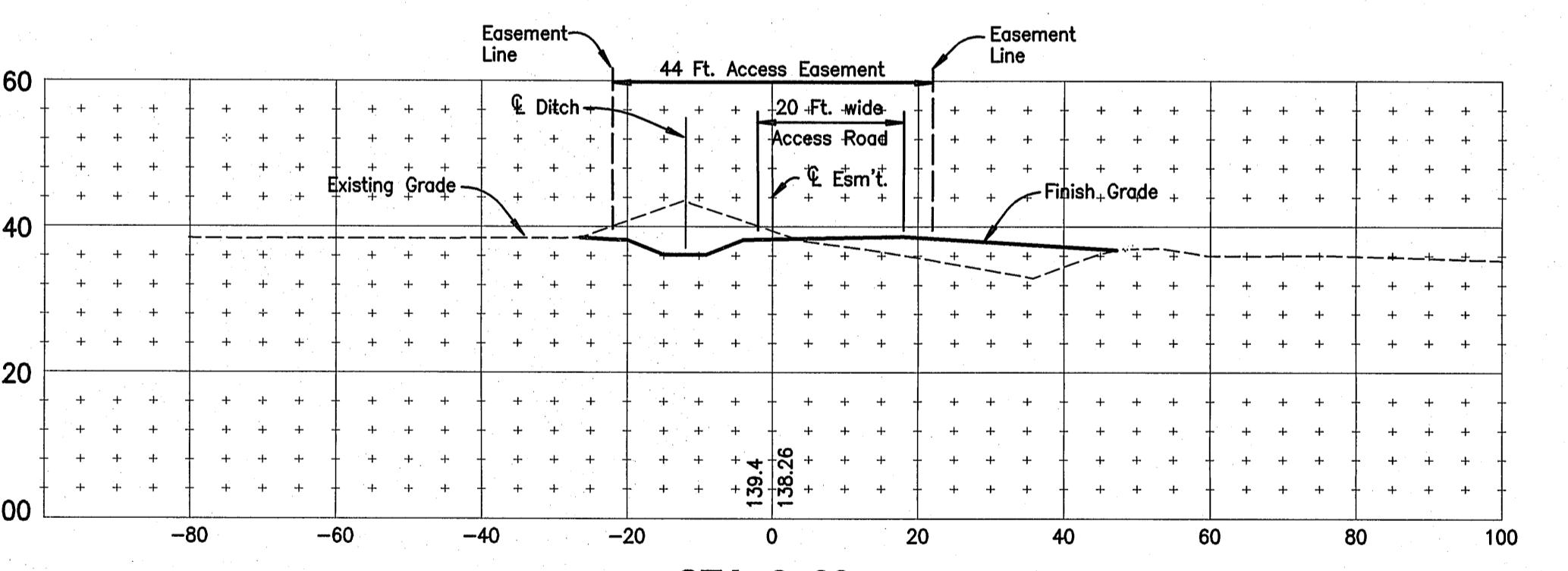
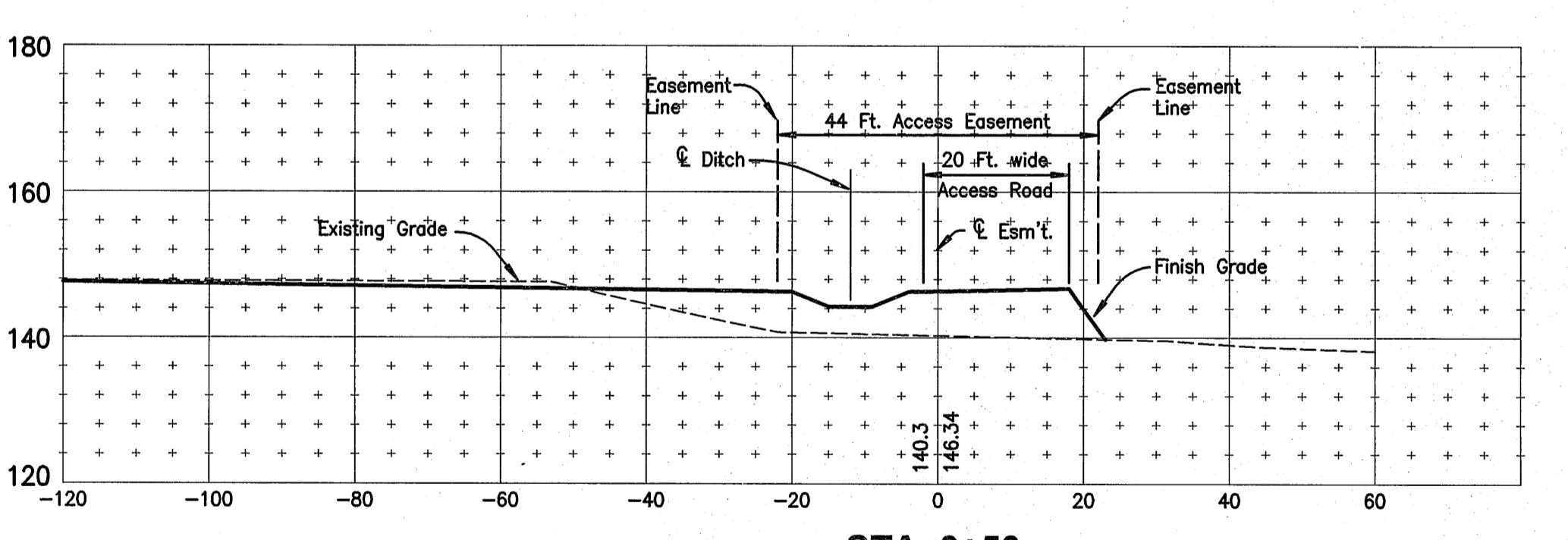
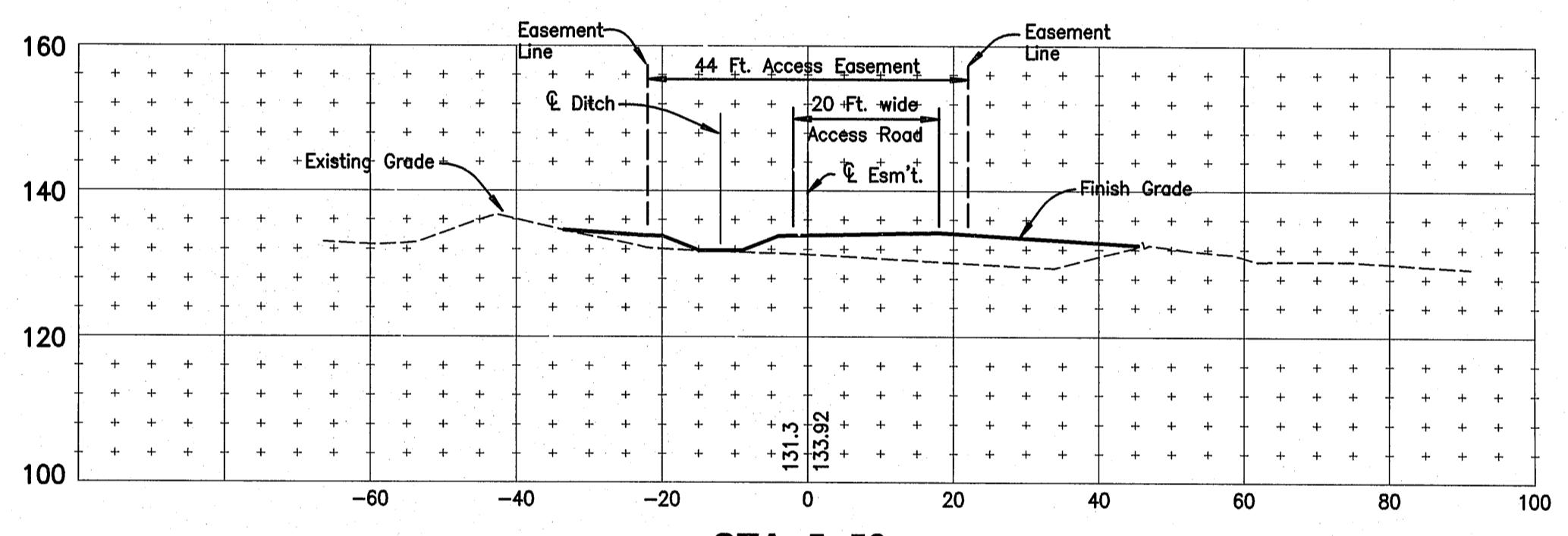
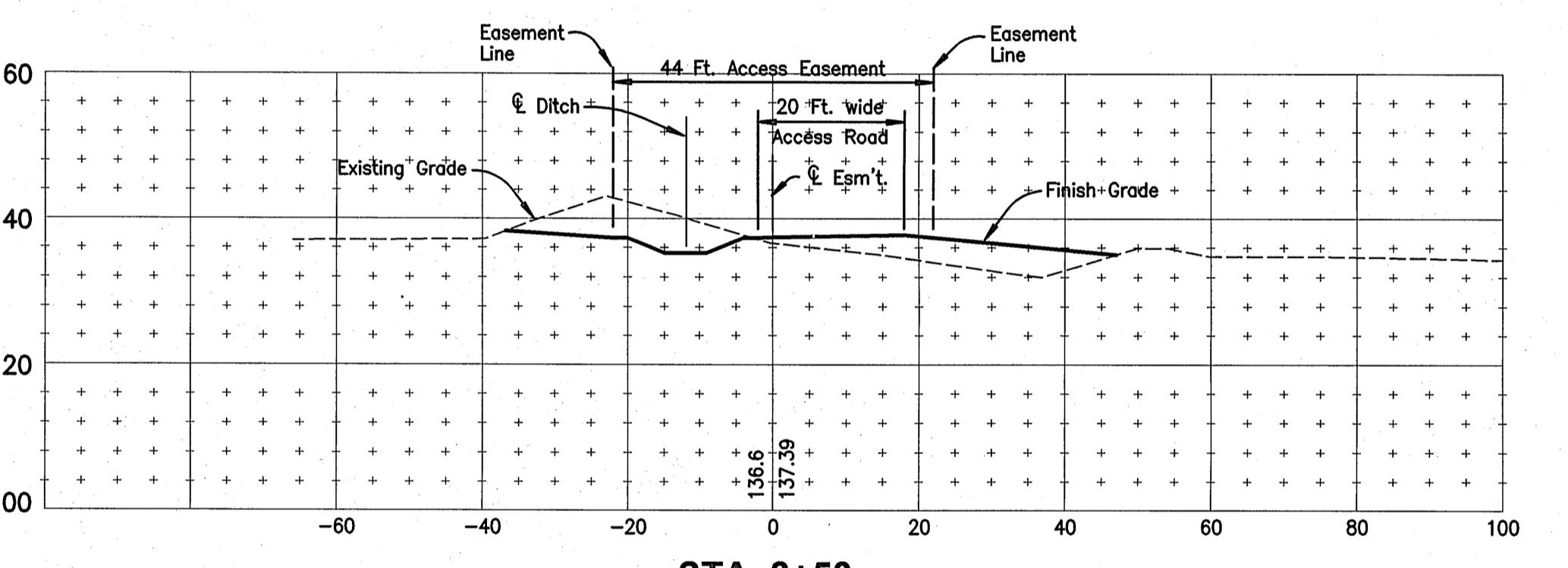
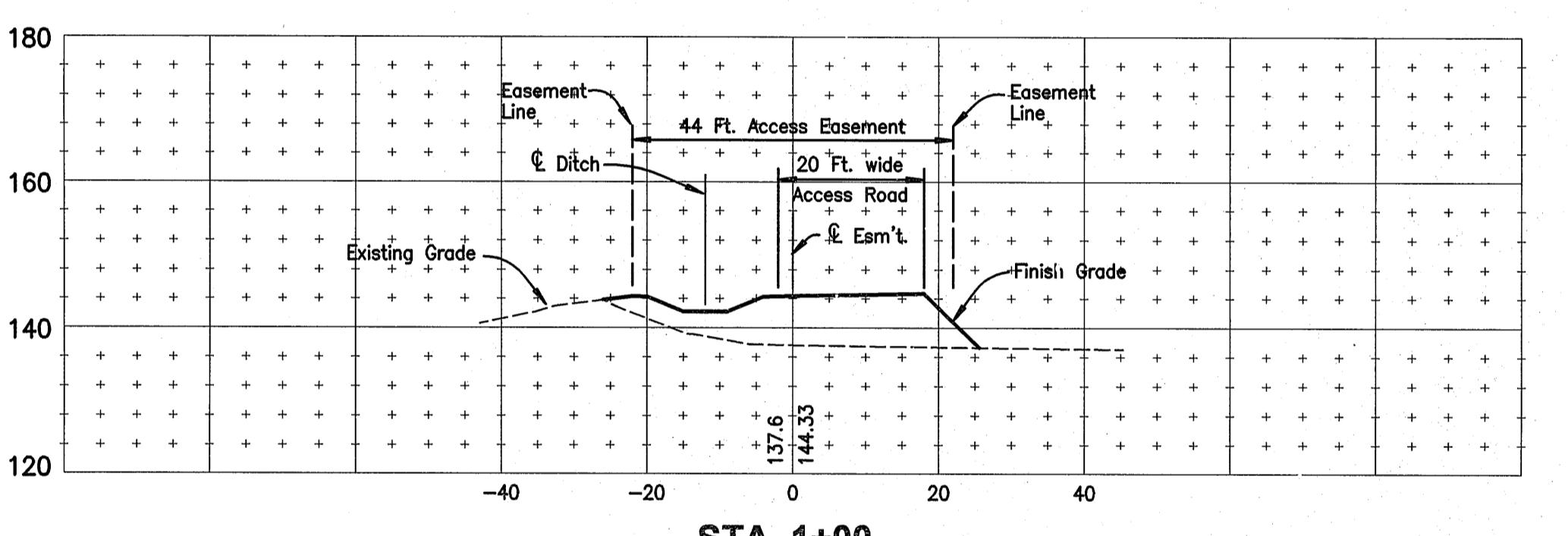
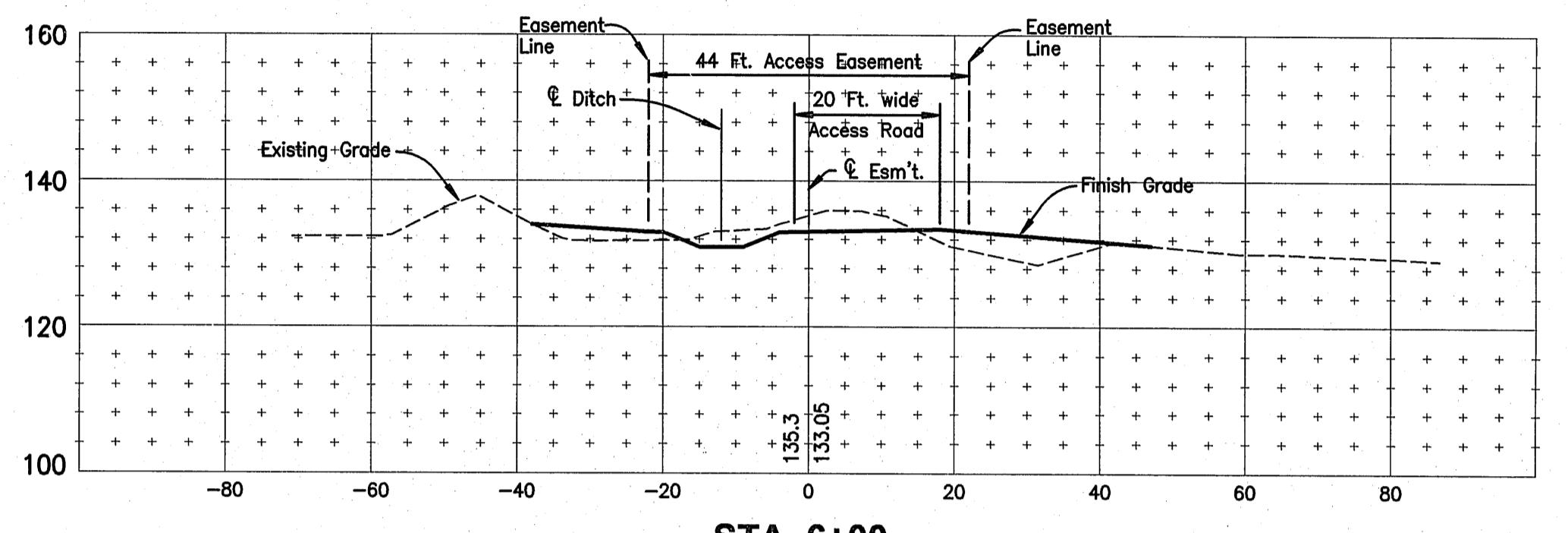
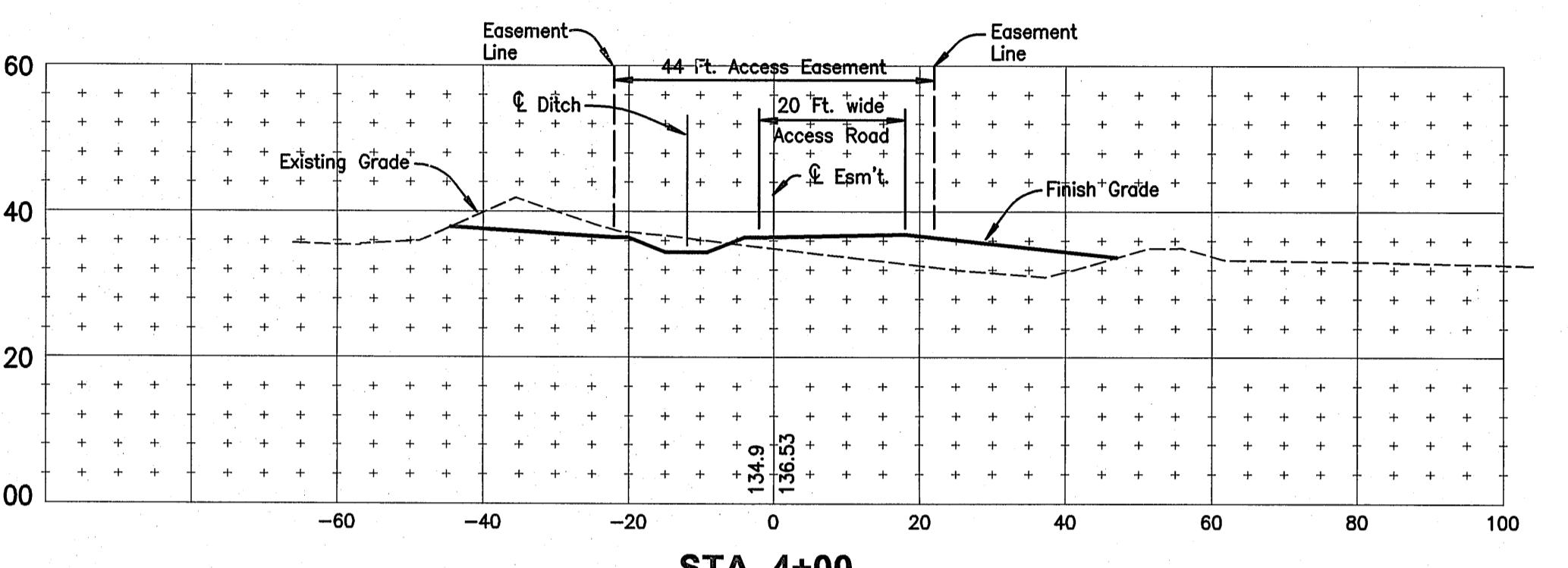
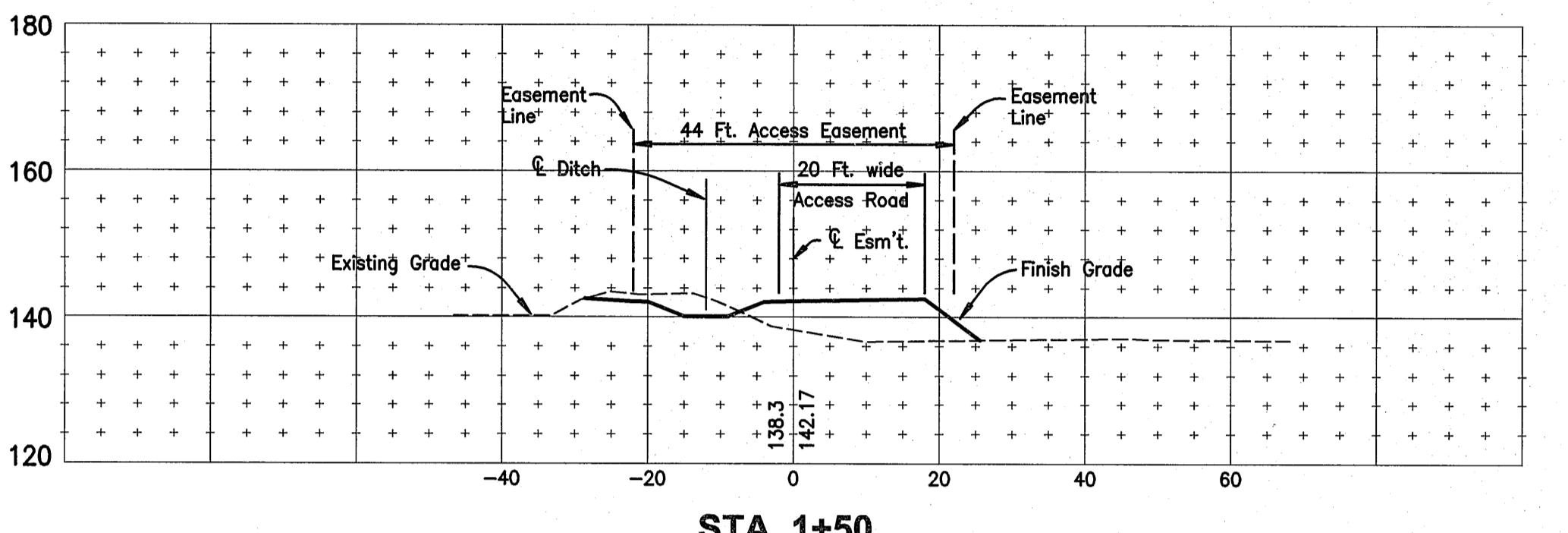
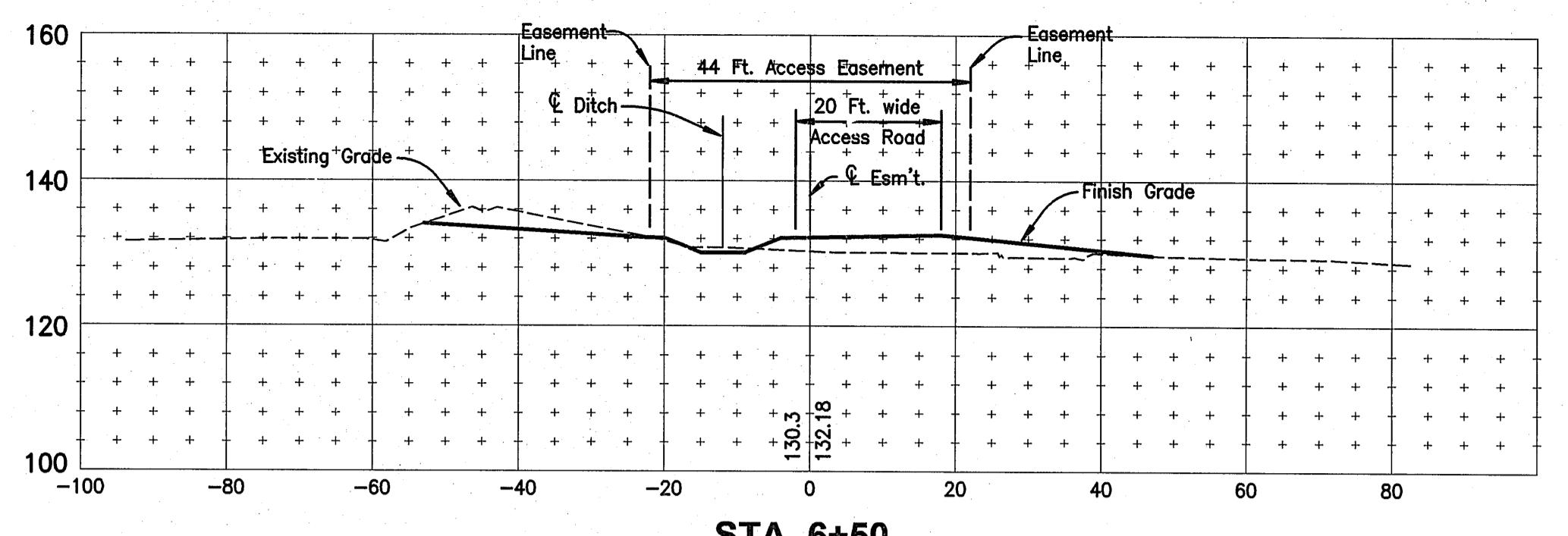
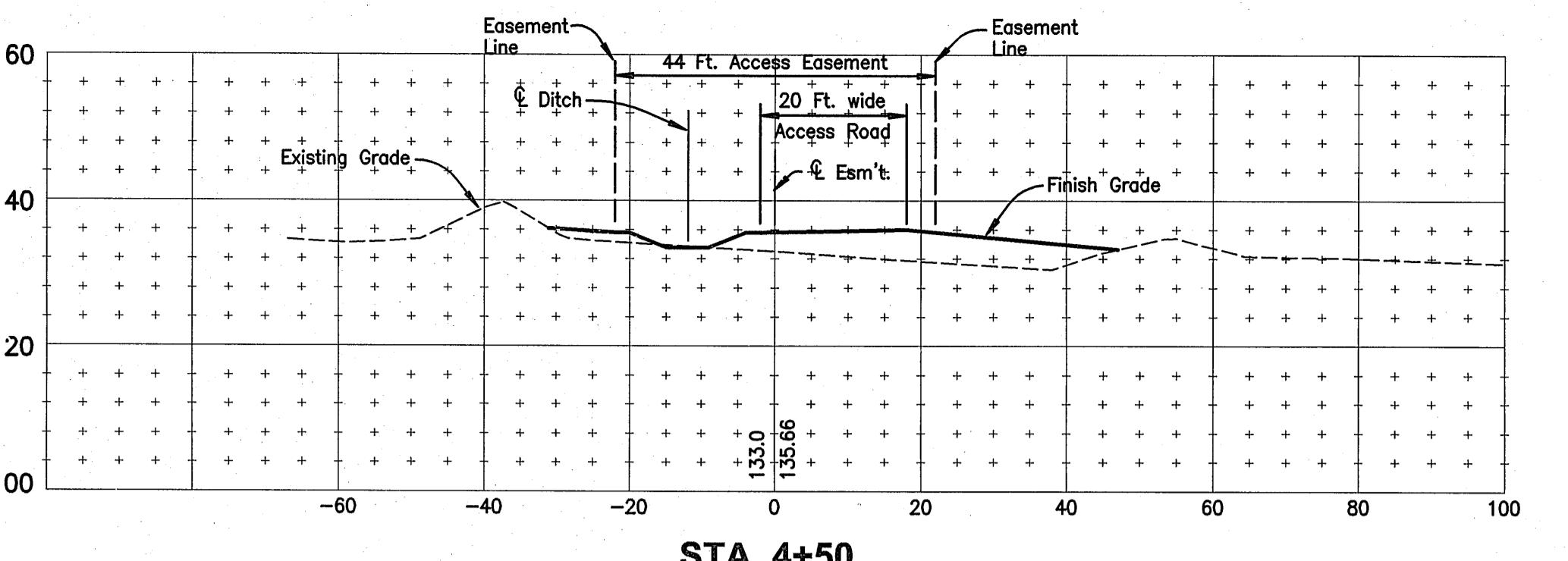
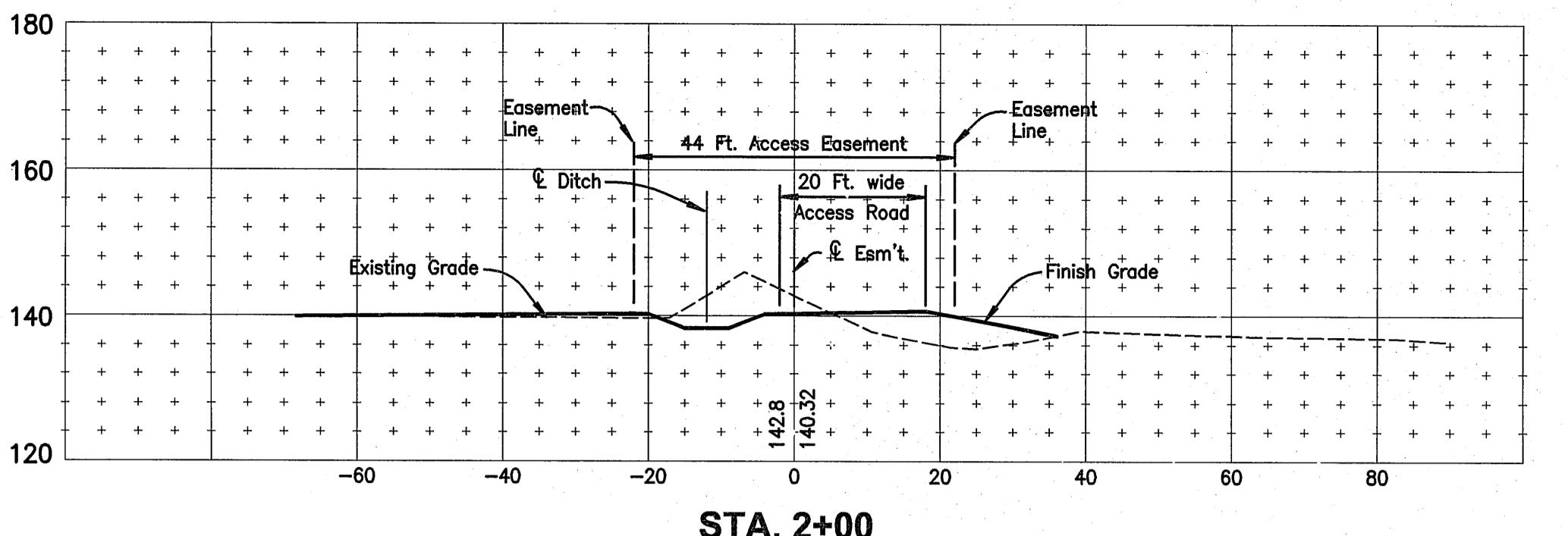
E 1 in. = 40 ft. 10-10-05 DATE OF SHIP

Digitized by srujanika@gmail.com



**PLAN**  
Scale: 1 in. = 40 ft.





**TYPICAL PAVEMENT**  
**SECTION FOR ACCESS ROAD**

**6 FT. WIDE GRASSED DITCH**  
**NOT TO SCALE**

 WARREN S. UMEMORI ENGINEERING, INC.

CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS  
WELLS STREET PROFESSIONAL CENTER, SUITE 403

2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

**KAUNOOLU MARKET PLACE**  
T.M.K.: (2) 2-2-02 : Por. of Pgr. 15 and 3-9-01 :

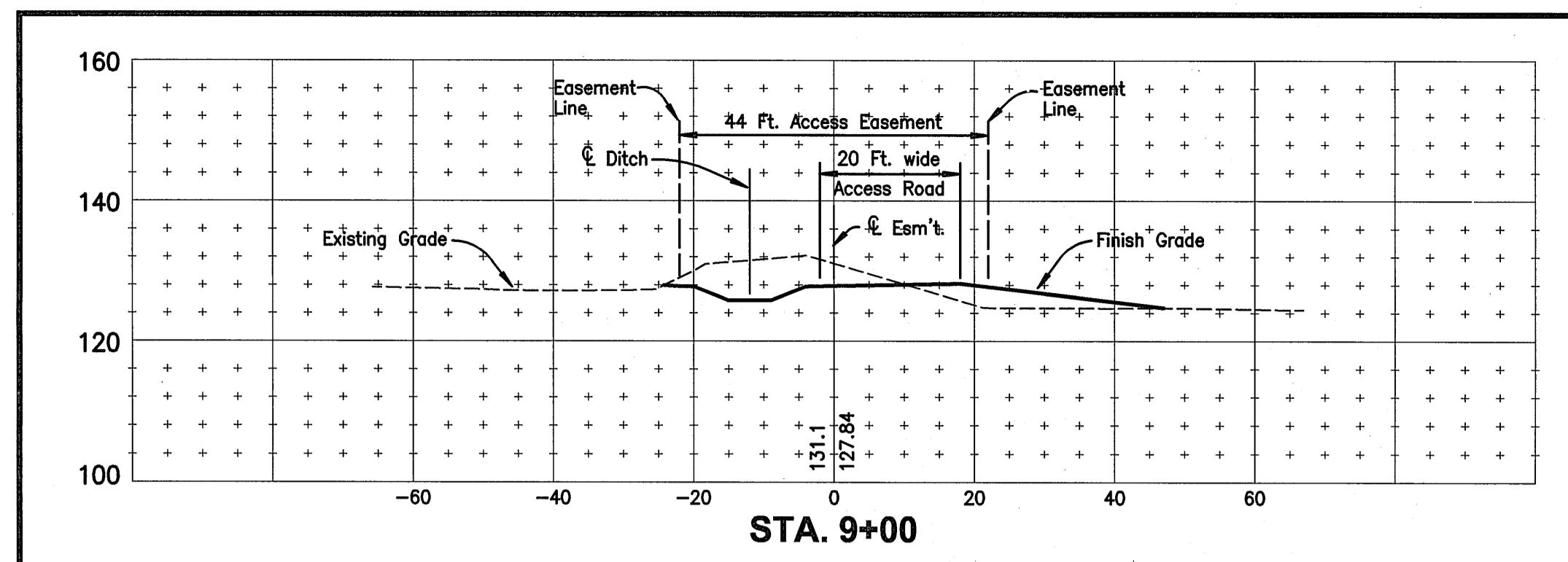
KIHEI, MAUI, HAWAII  
CROSS SECTIONS ALONG ACCESS ROAD

TITLE CROSS SECTIONS ALONG ACCESS ROAD  
FROM OHUKAI ROAD TO PROJECT SITE

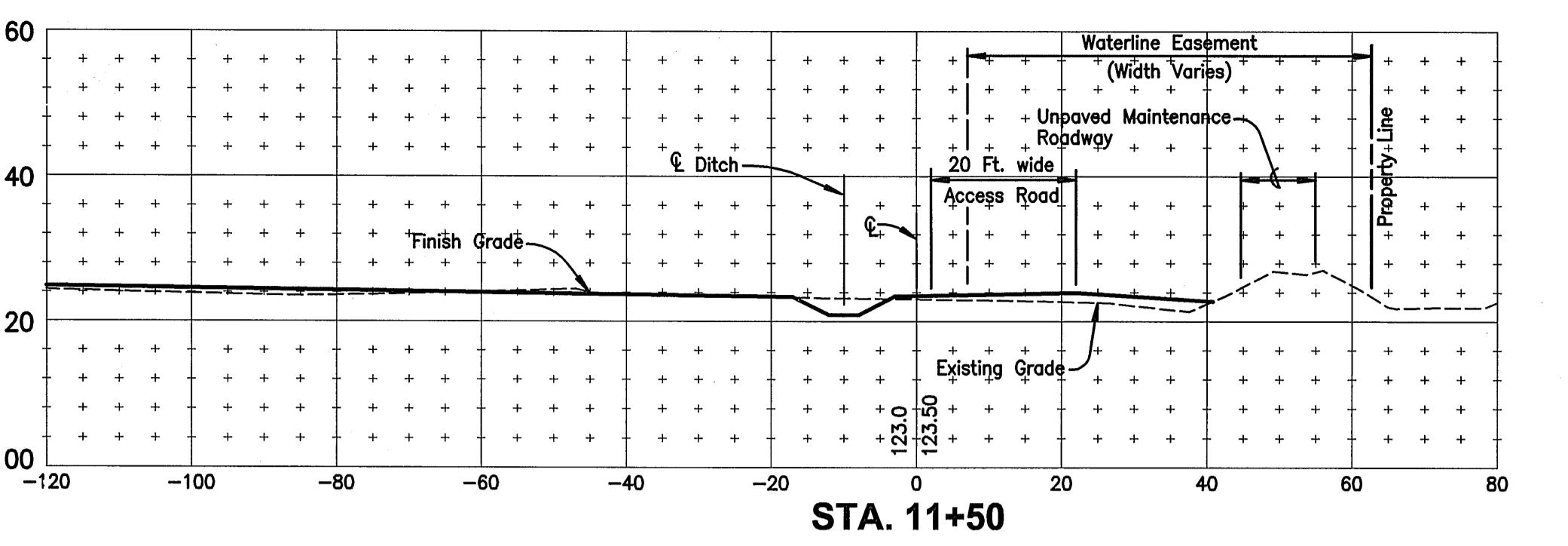
**ALU**           **DTU**           **04010.10**           **70**  
DESIGNED BY    CHECKED BY

WIS	DTU	JOB NUMBER
DRAWN BY	APPROVED BY	SHEET

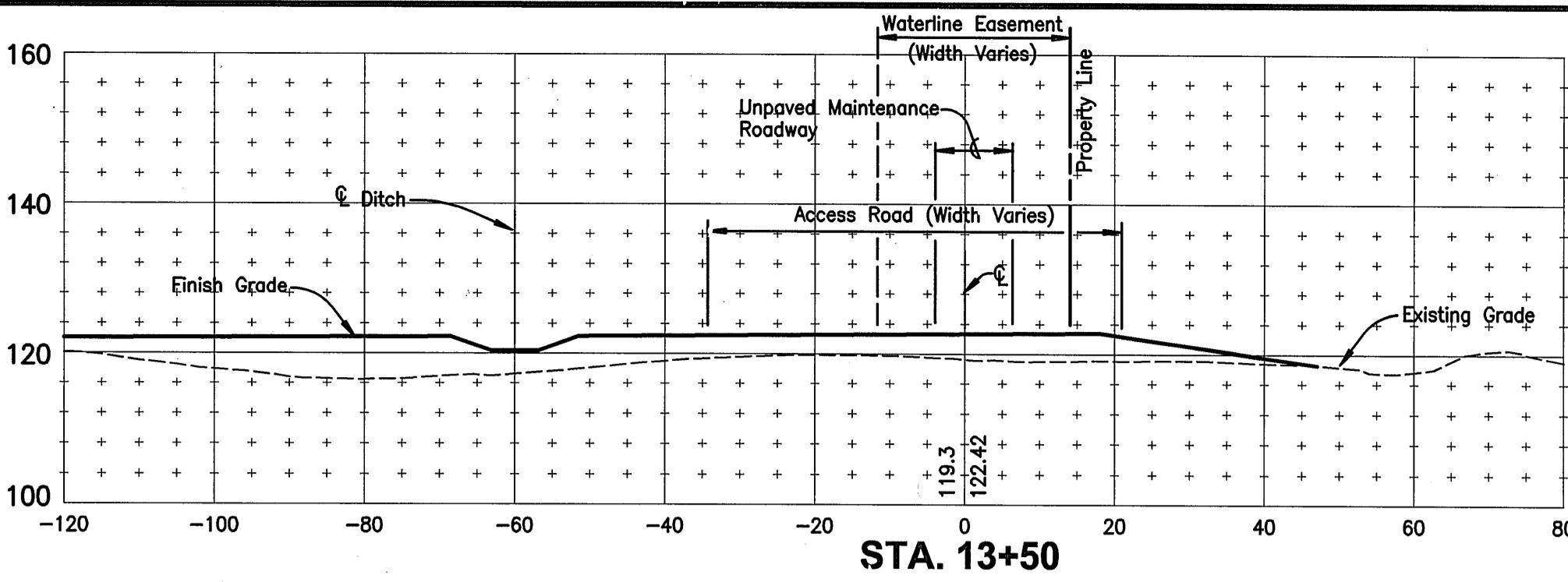
CTS, S"	1 in. = 20 ft.	10-10-05	DATE	OF	SH
SCALE					



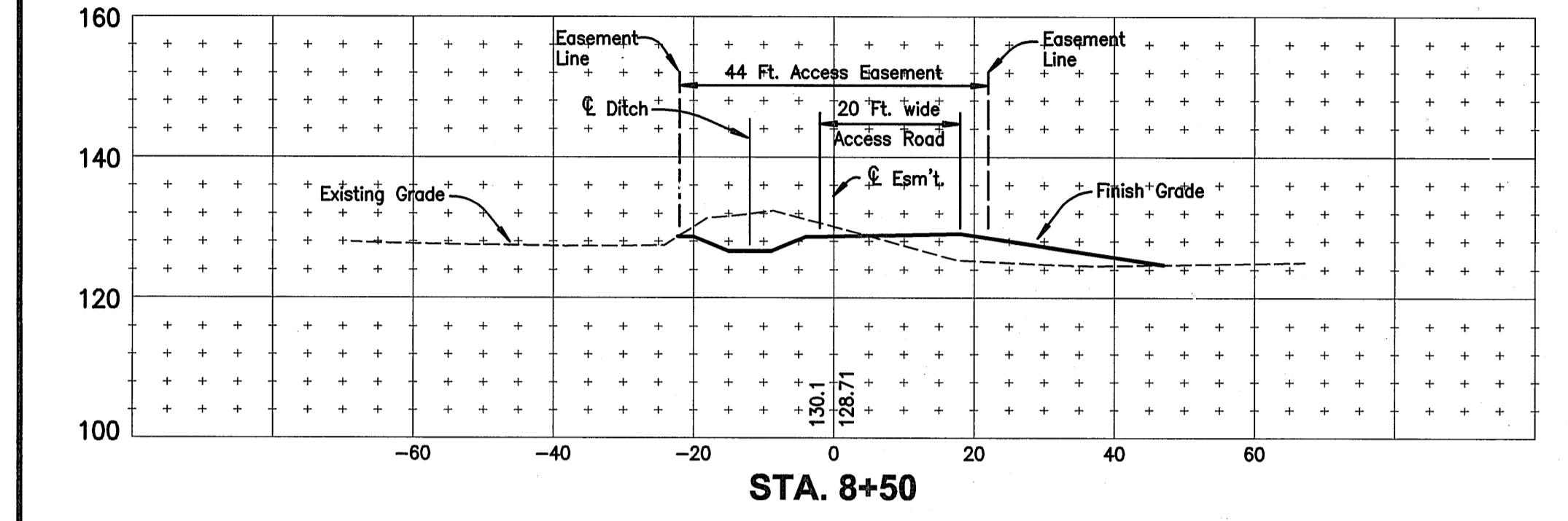
STA. 9+00



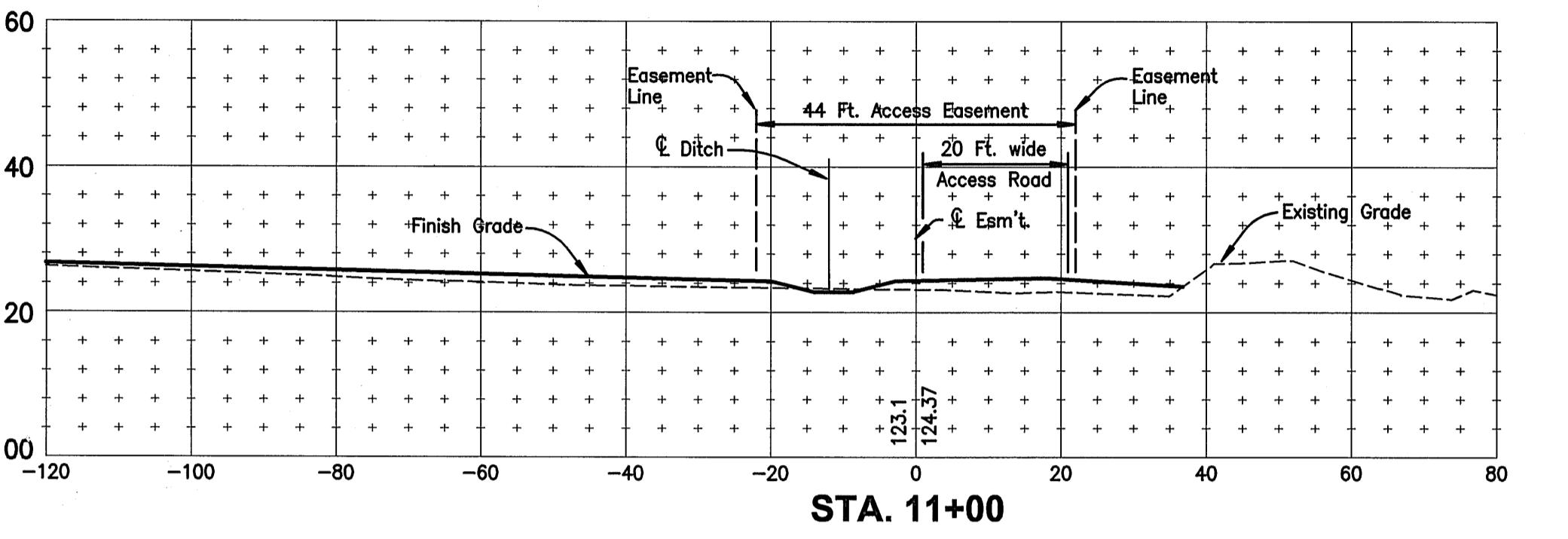
STA. 11+50



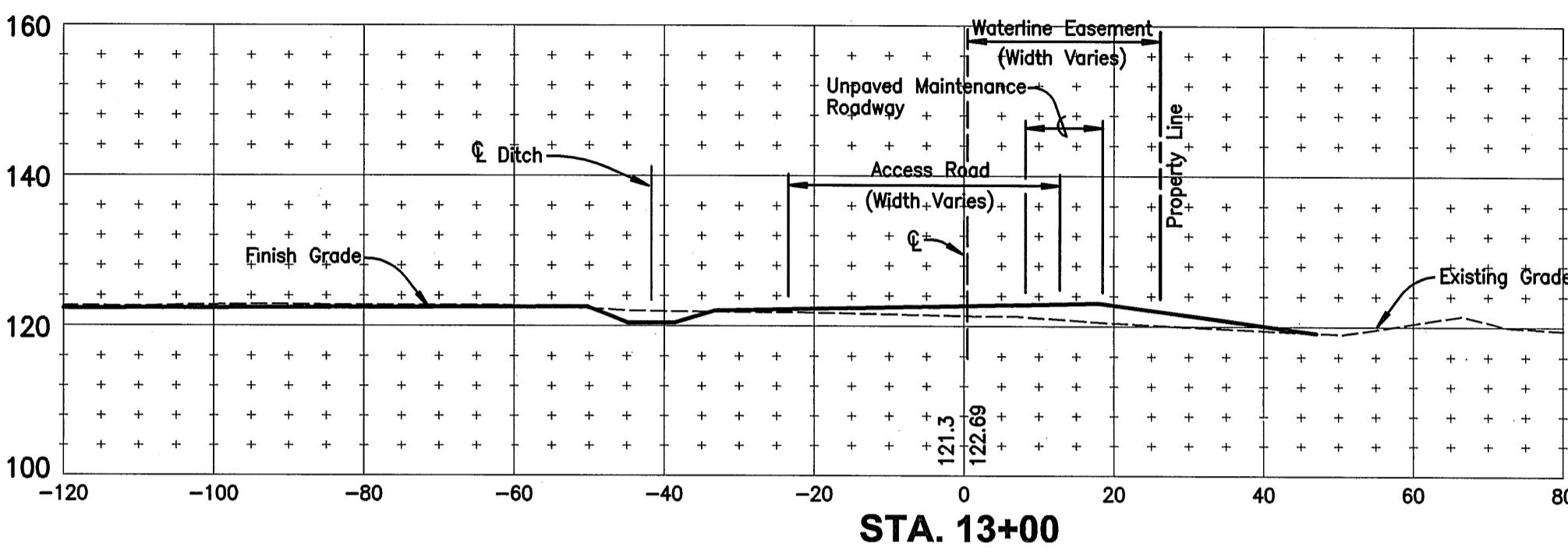
STA. 13+50



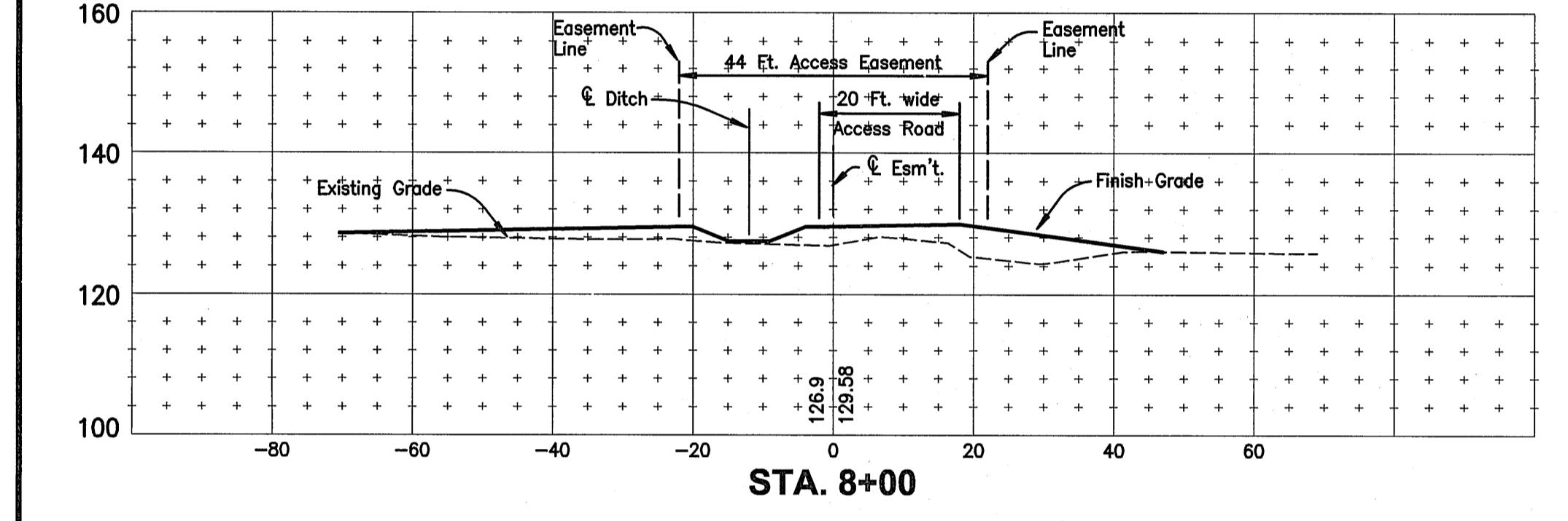
STA. 8+50



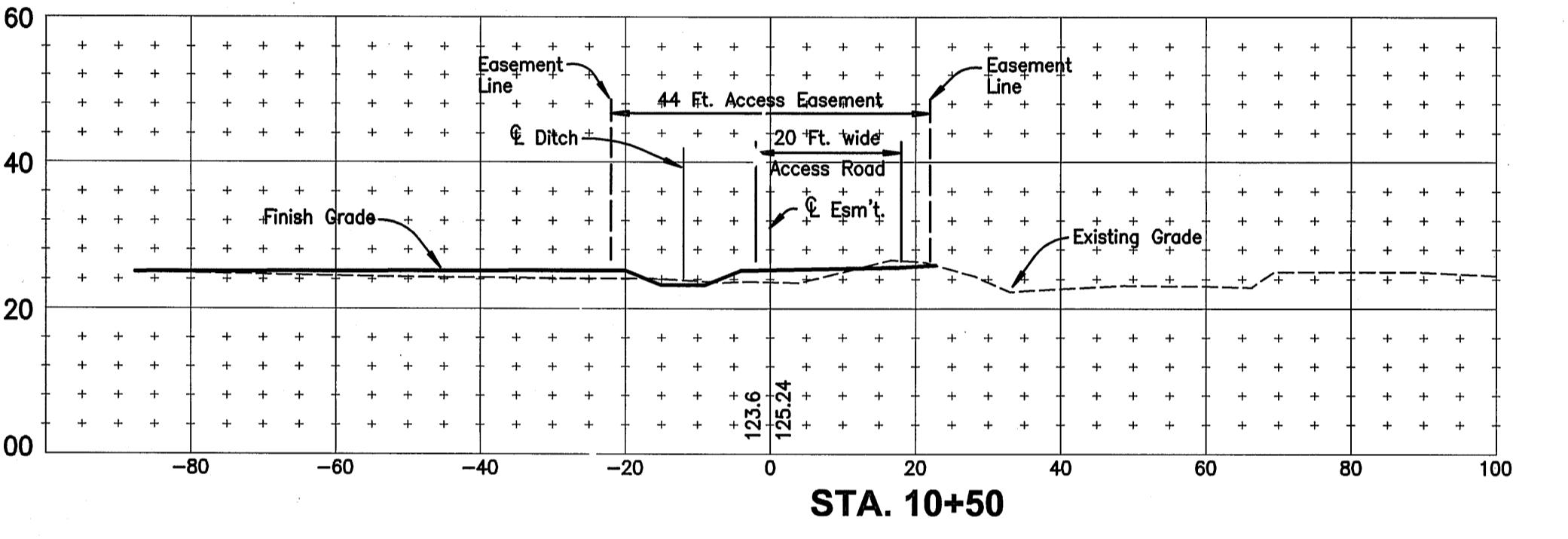
STA. 11+00



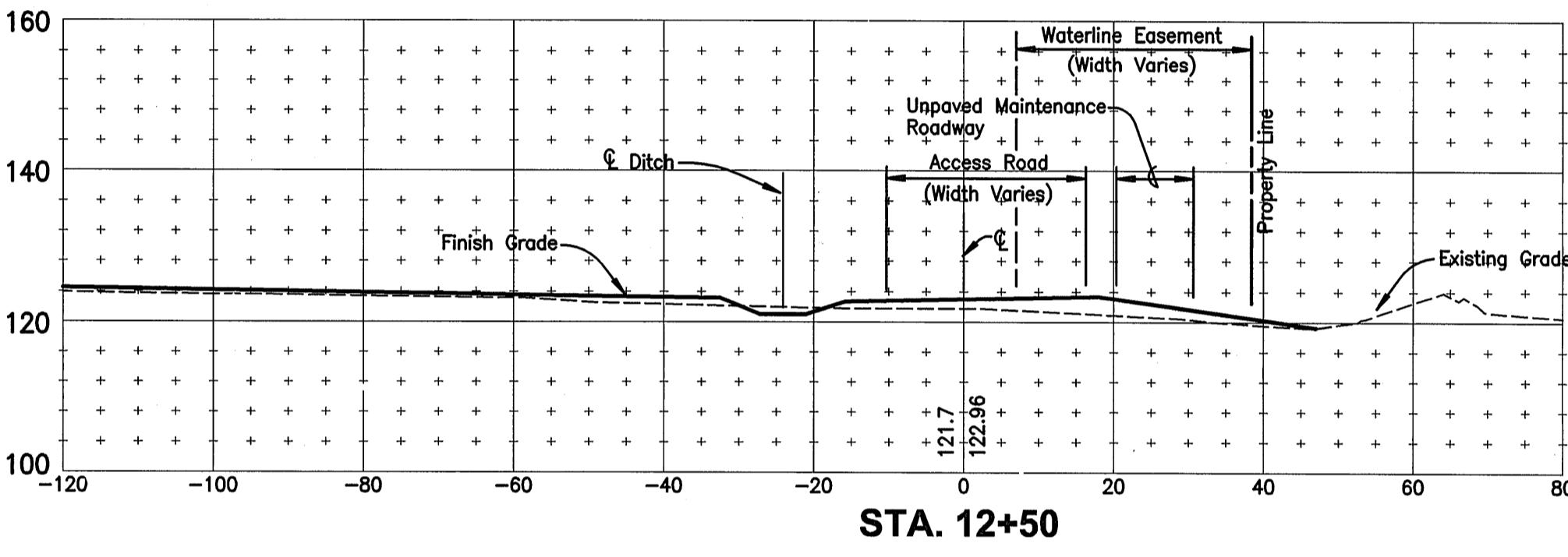
STA. 13+00



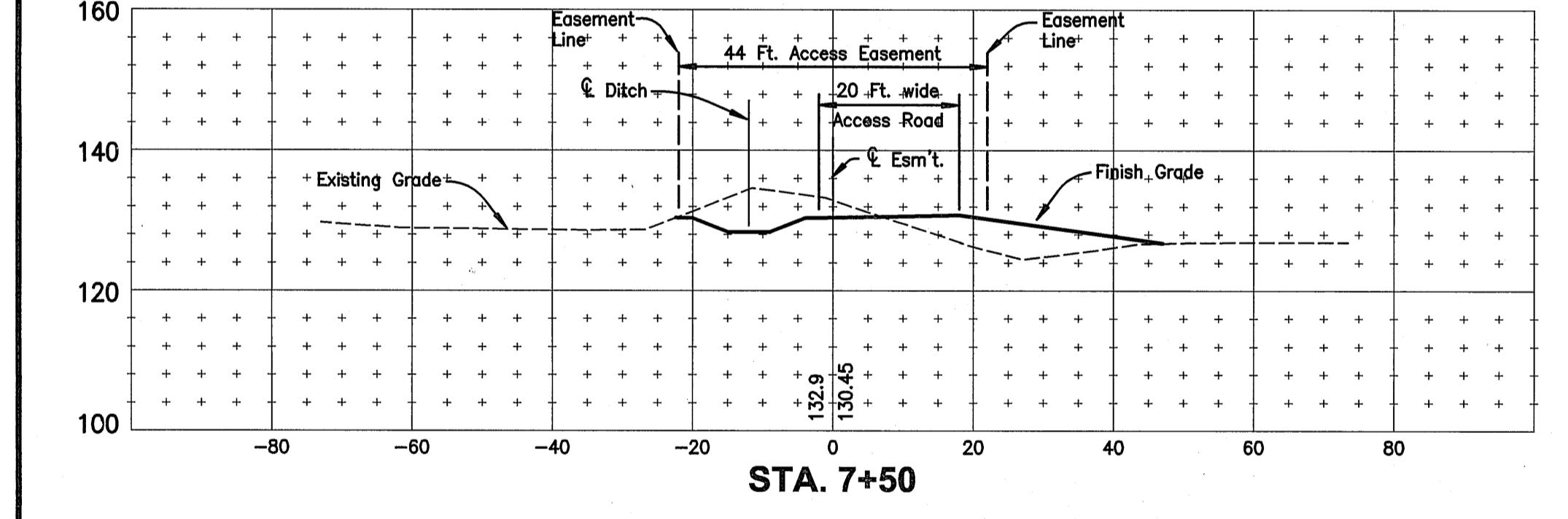
STA. 8+00



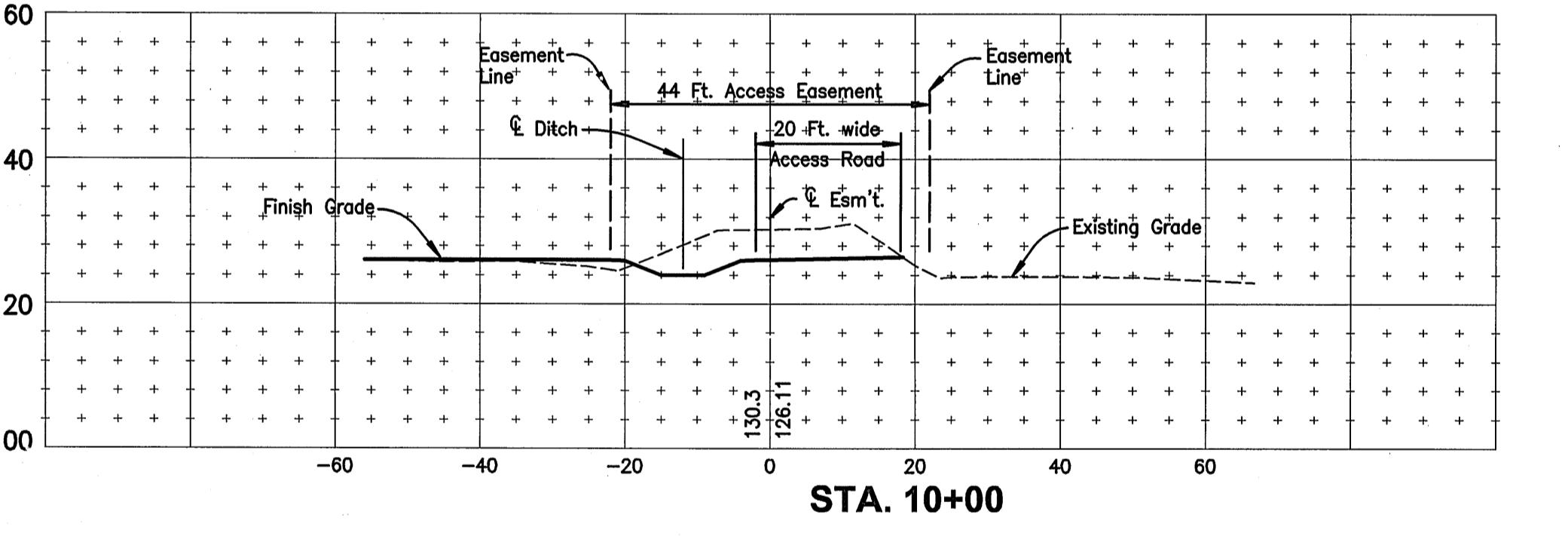
STA. 10+50



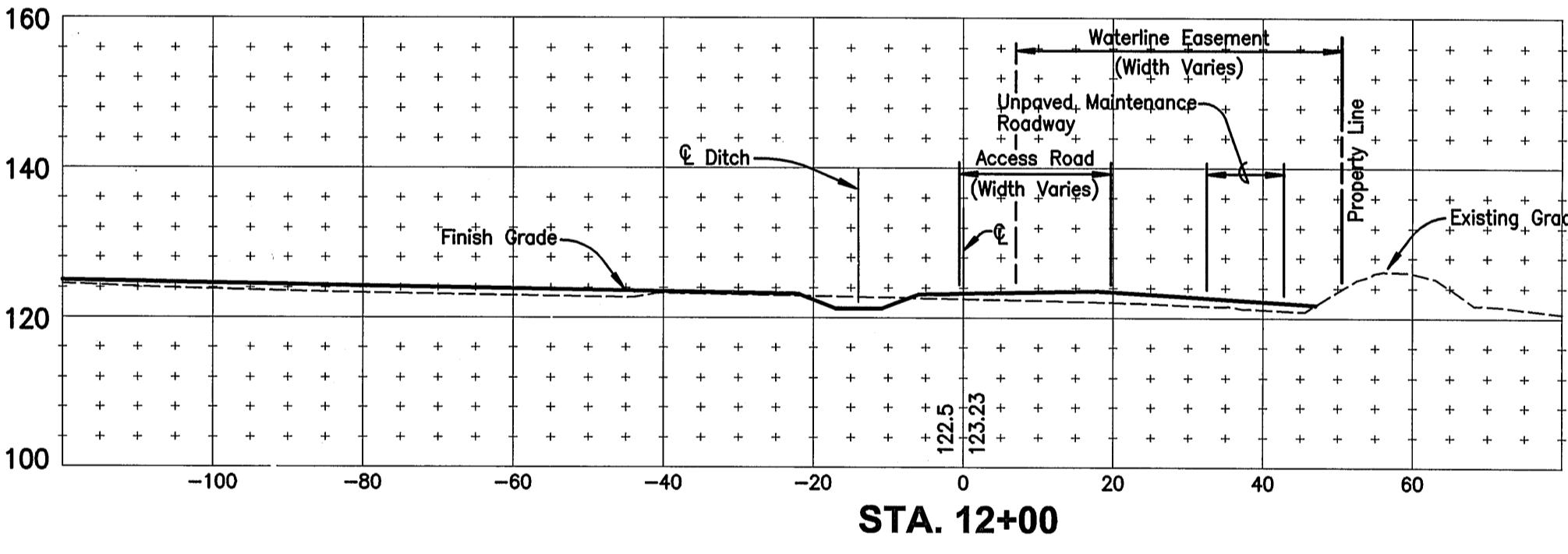
STA. 12+50



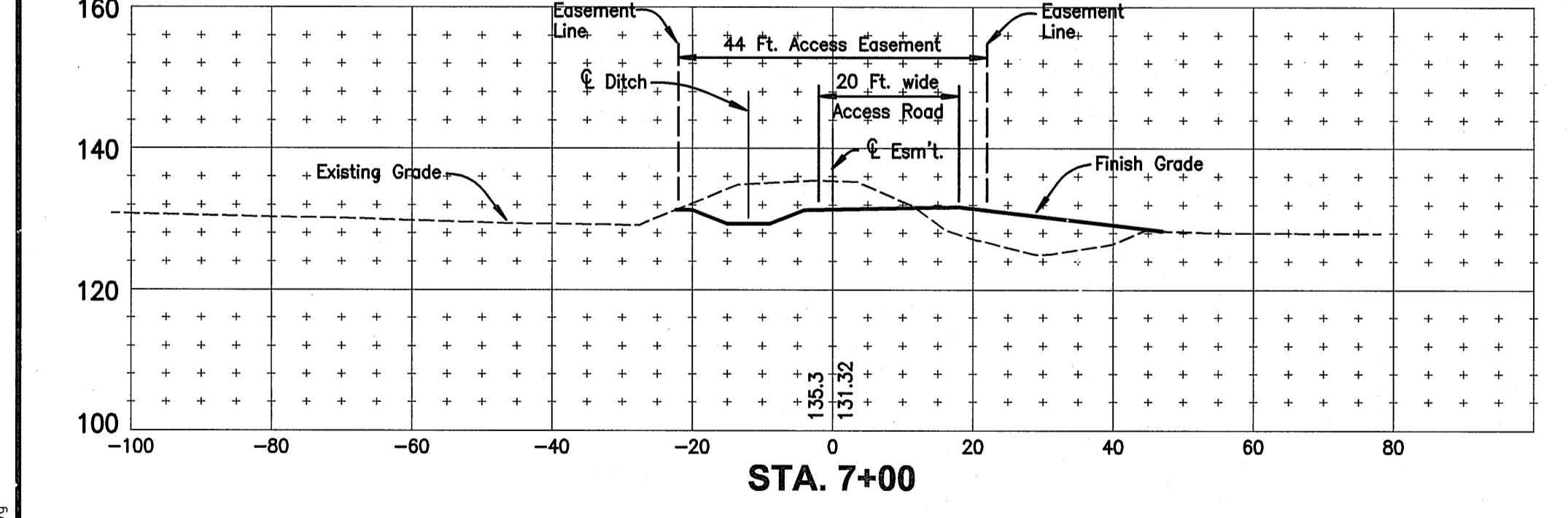
STA. 7+50



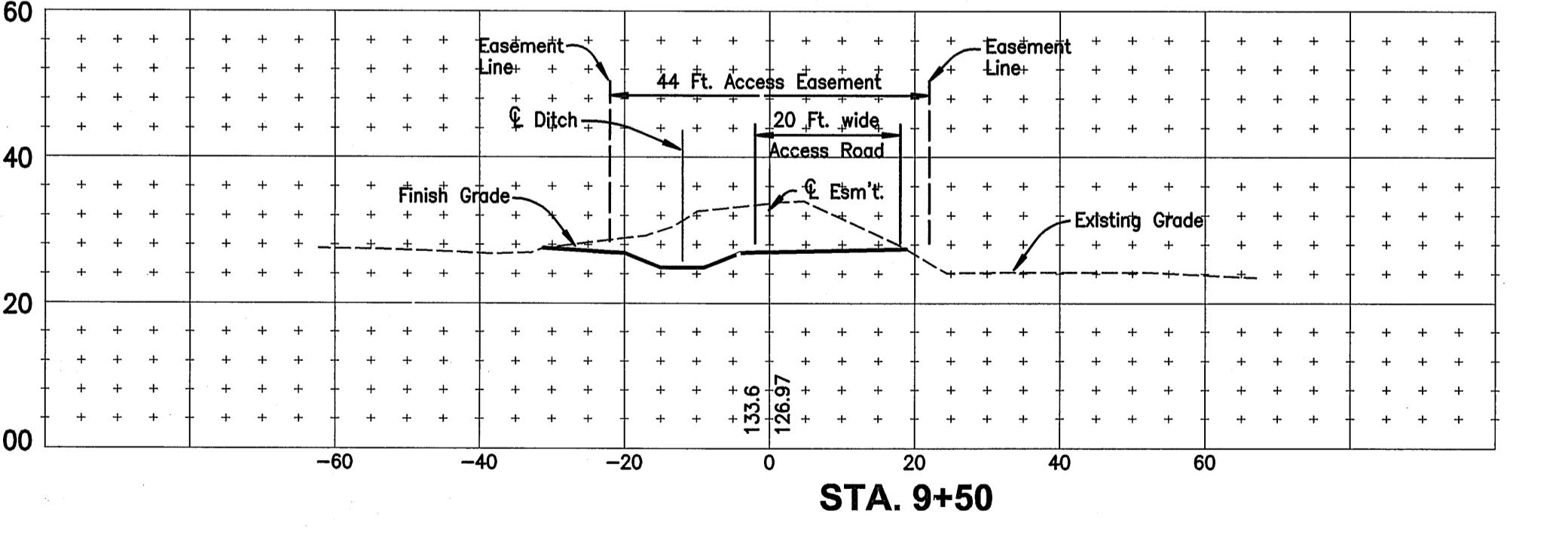
STA. 10+00



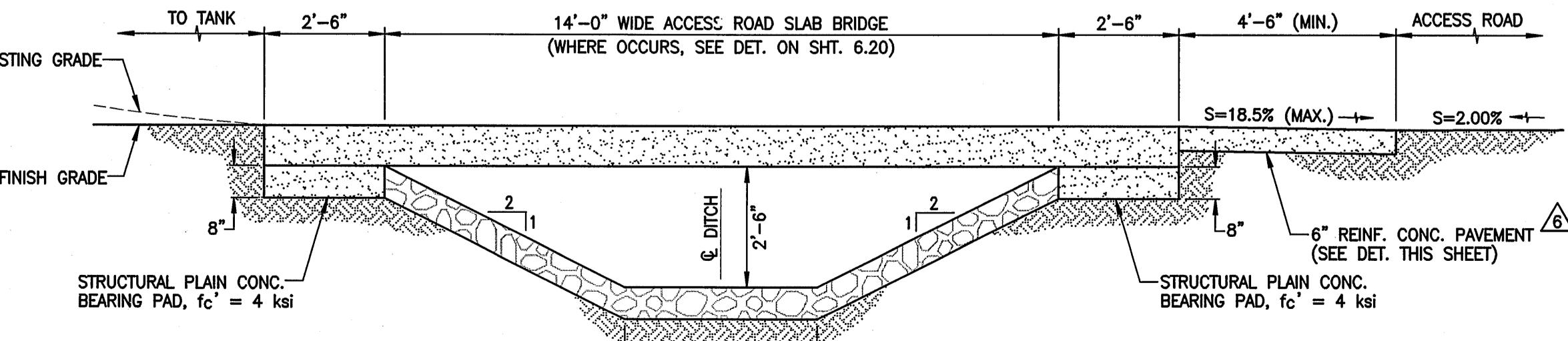
STA. 12+00



STA. 7+00



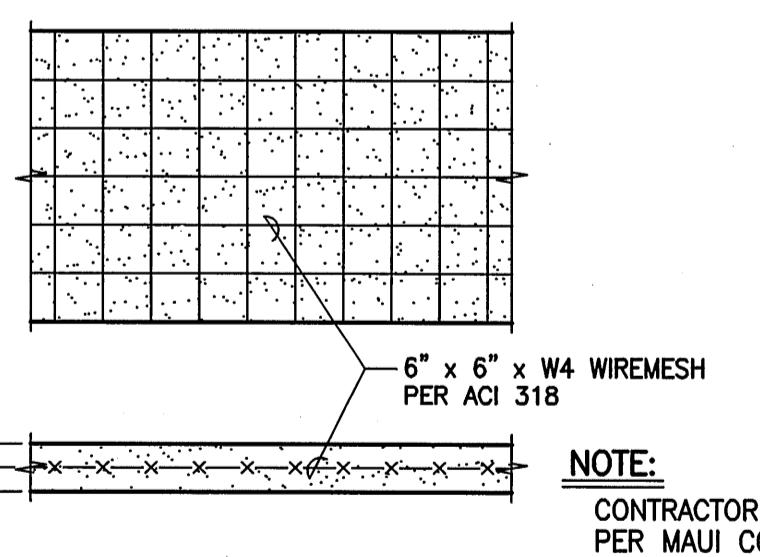
STA. 9+50



14 FT. WIDE GRP DITCH (STA. 11+28 TO 11+47)

SCALE: 3/8" = 1'-0"

	REVISED GRP DITCH DETAIL	10/01/10
	ADDED 14 FT. DITCH SECTION	12/12/08
LETTER	DESCRIPTION	DATE

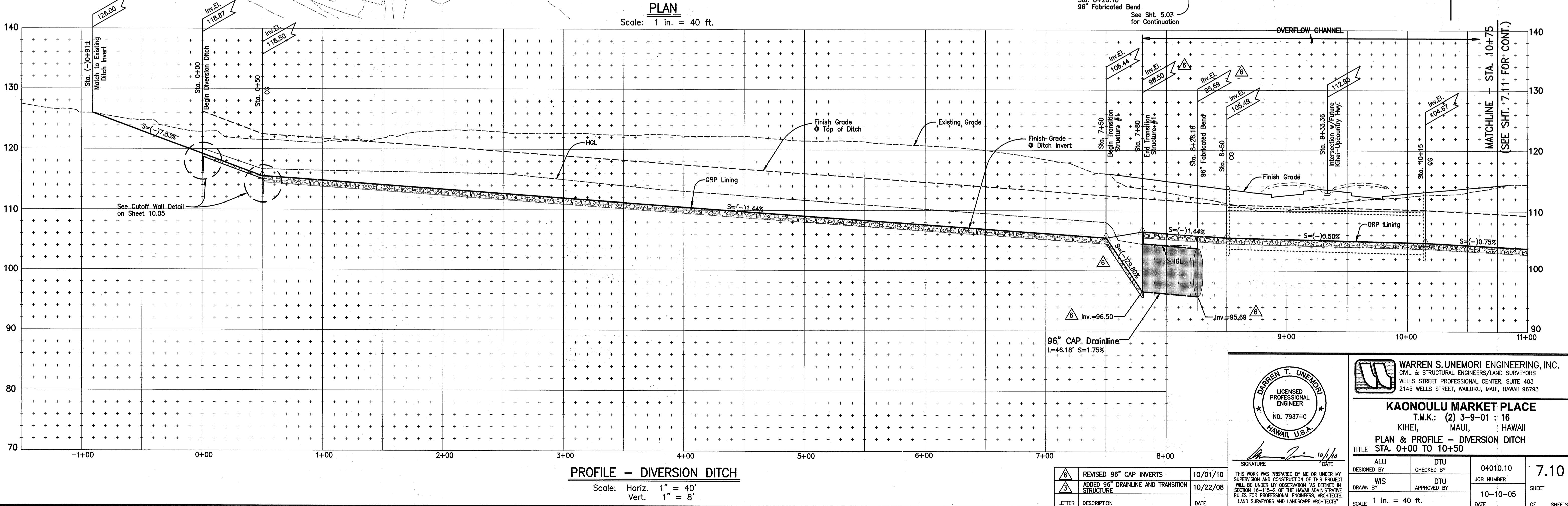
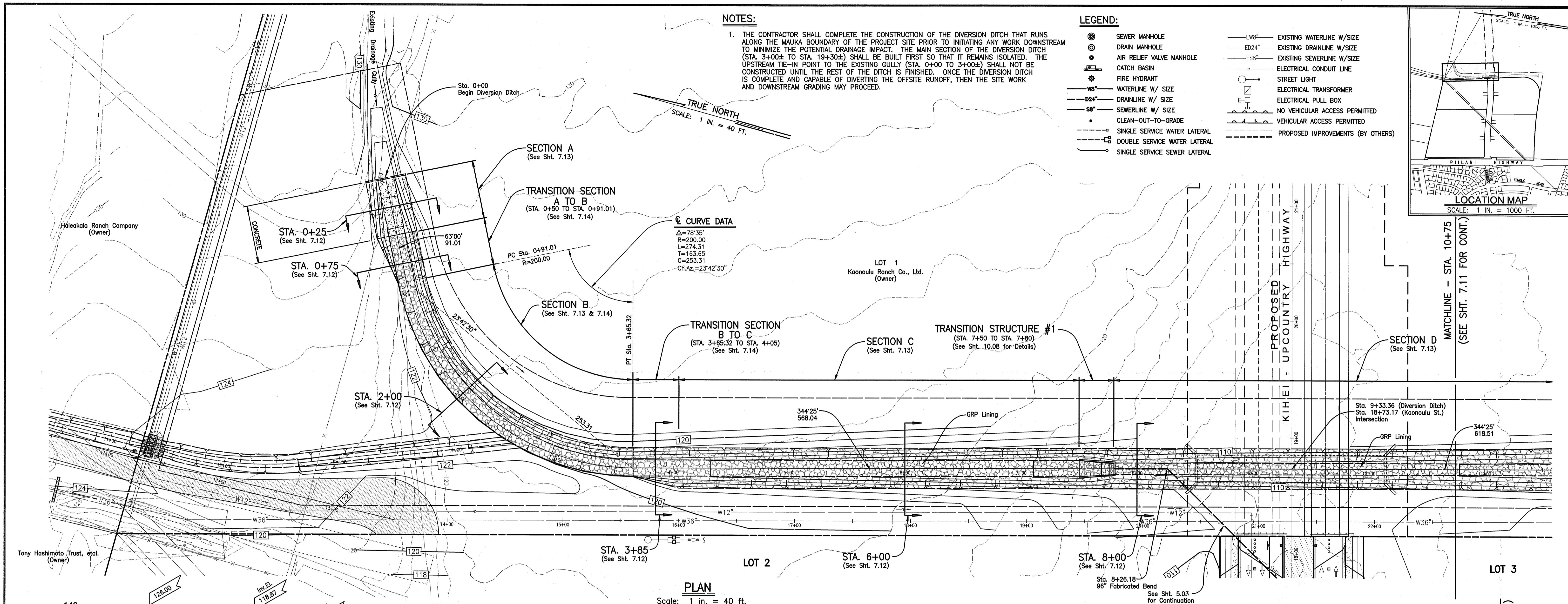


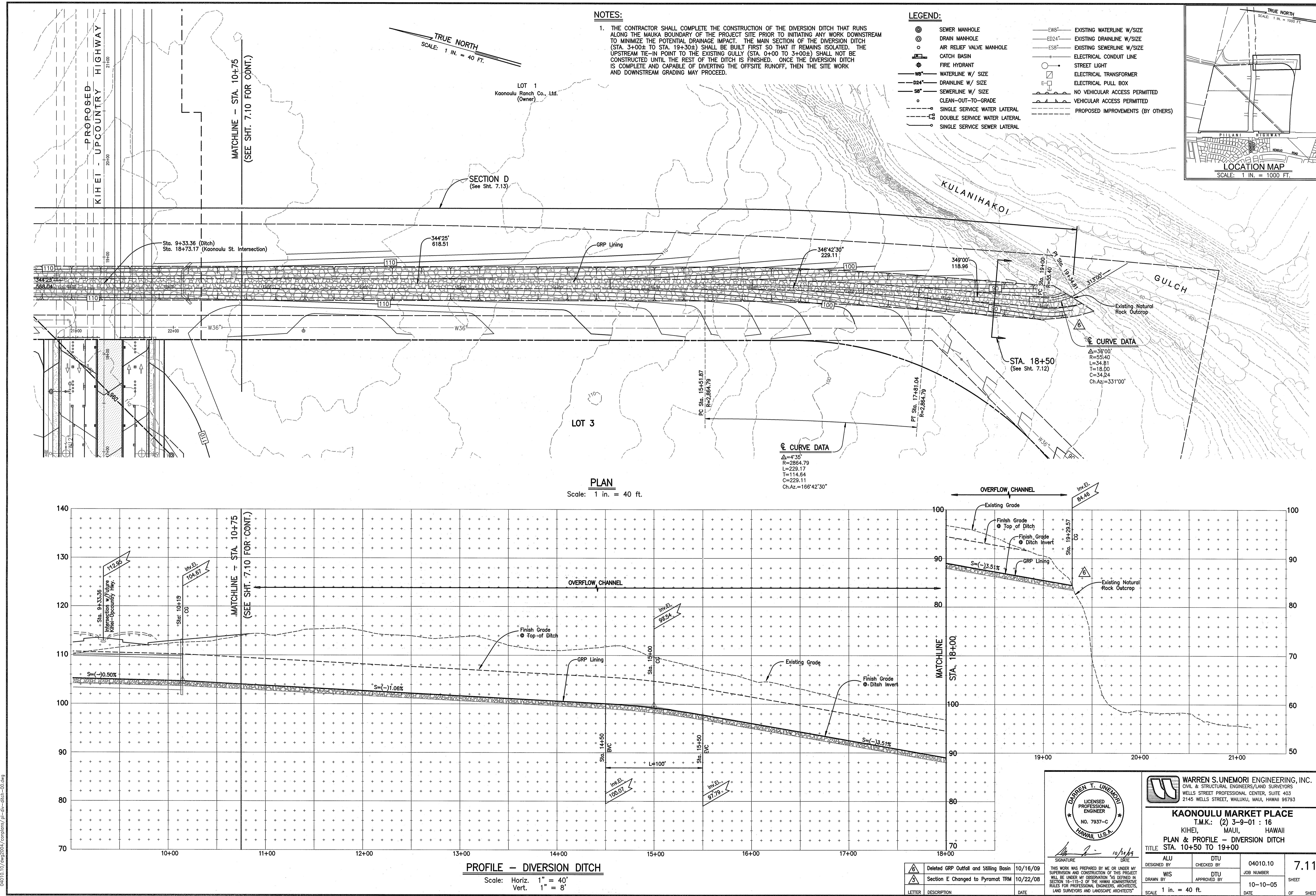
NOTE:  
CONTRACTOR SHALL ADD TRANSVERSE JOINTS  
PER MAUI COUNTY STANDARD DETAIL R-9,  
R-10, AND R-11.

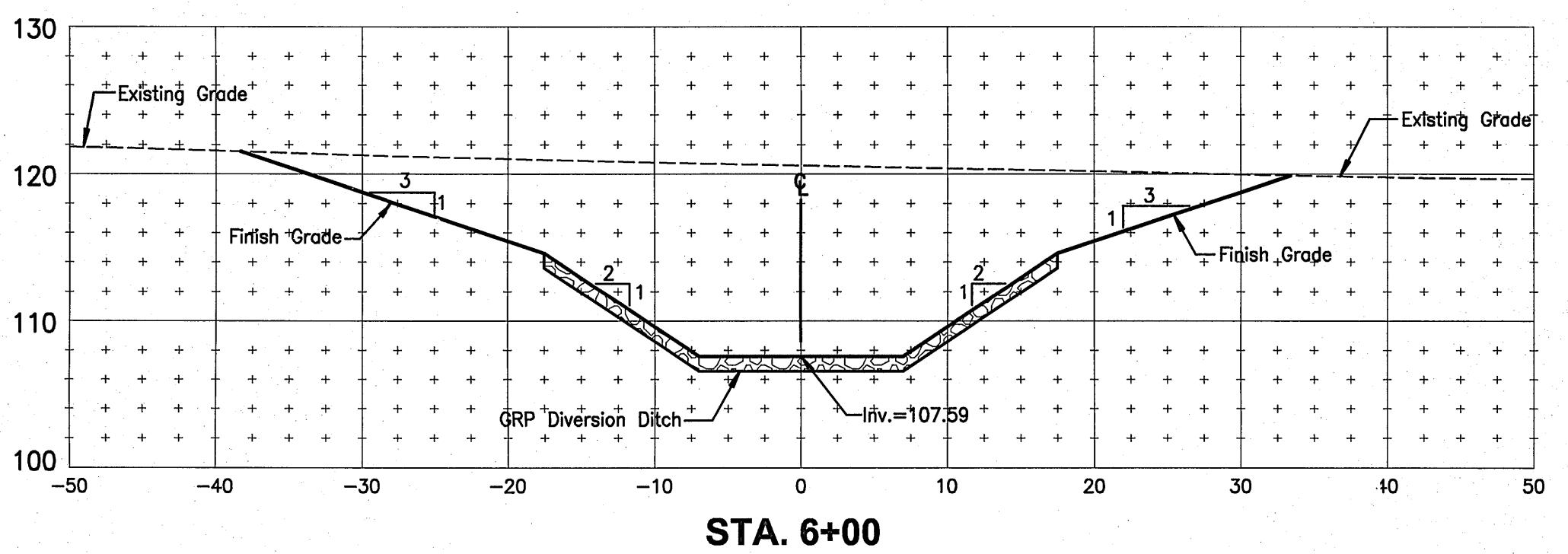
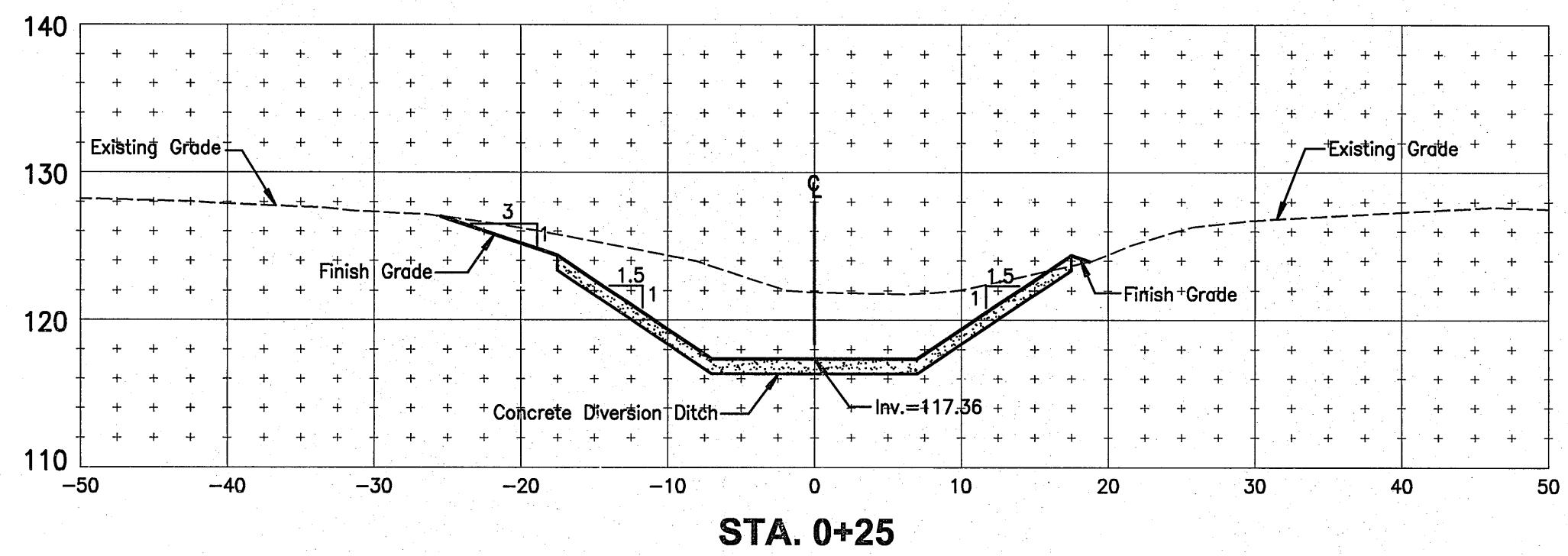
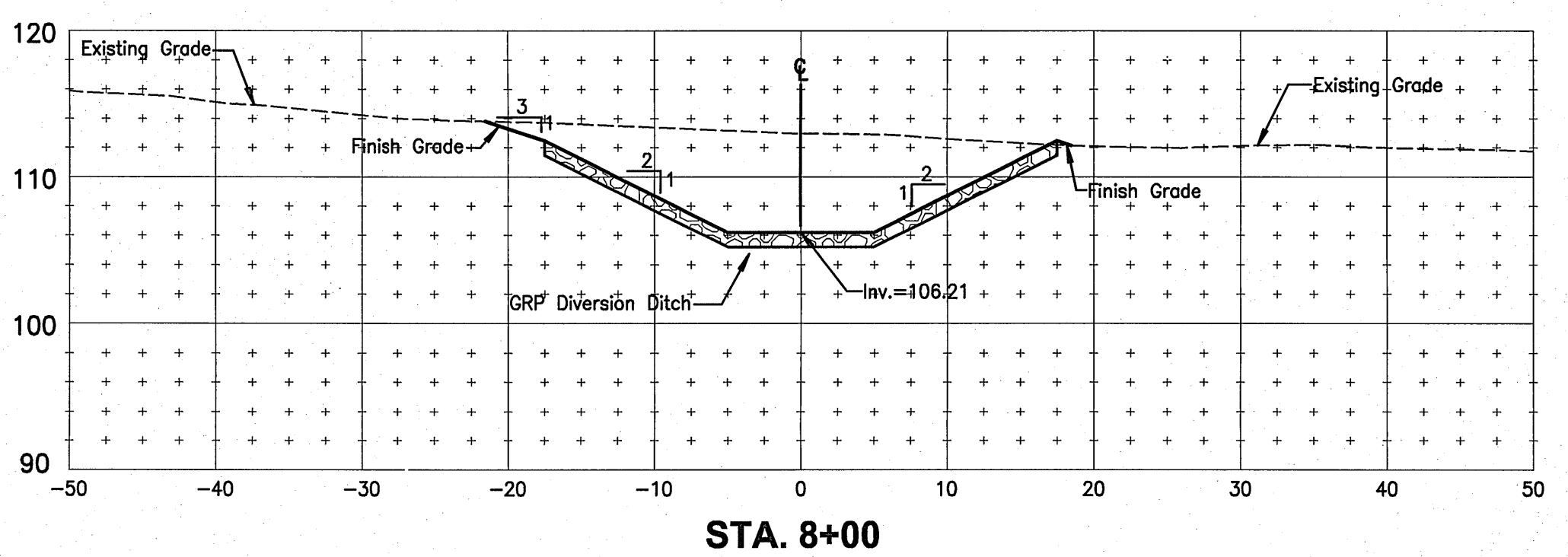
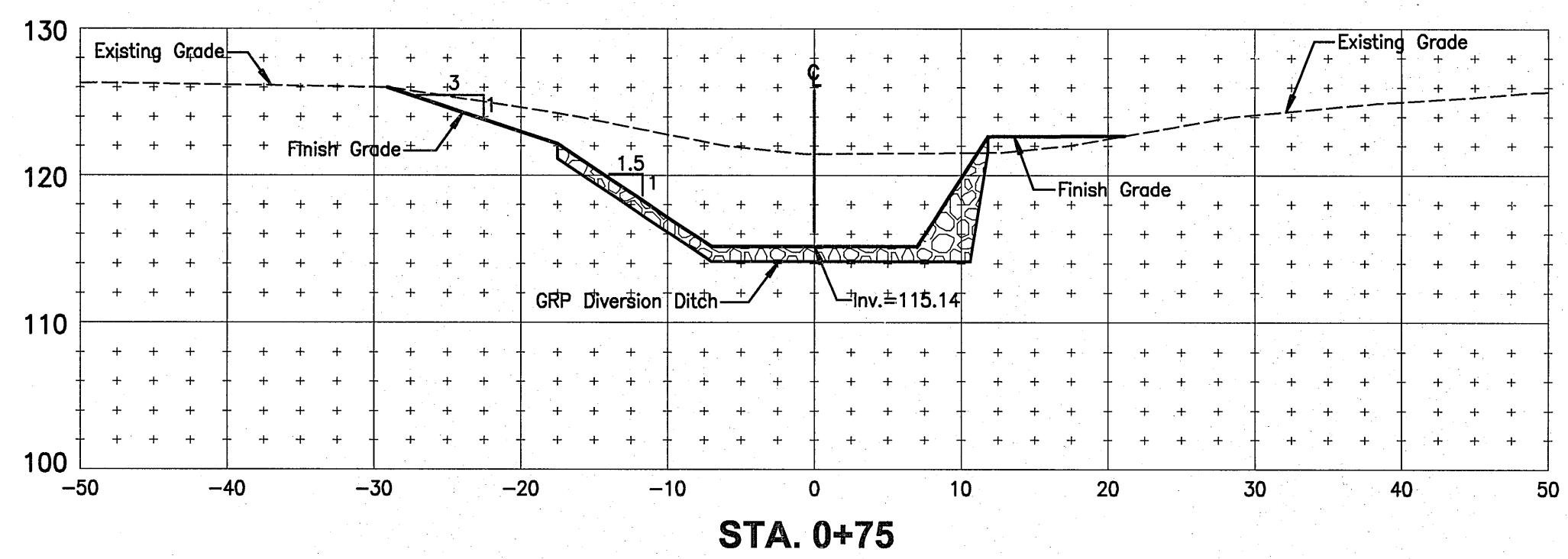
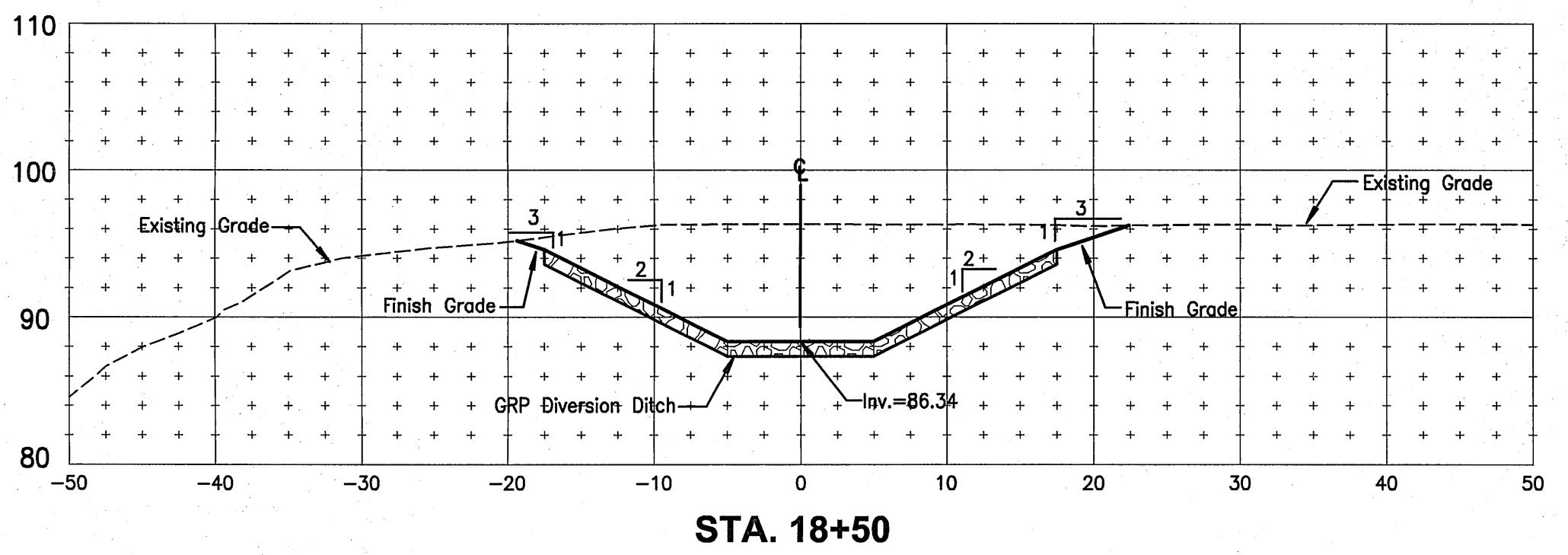
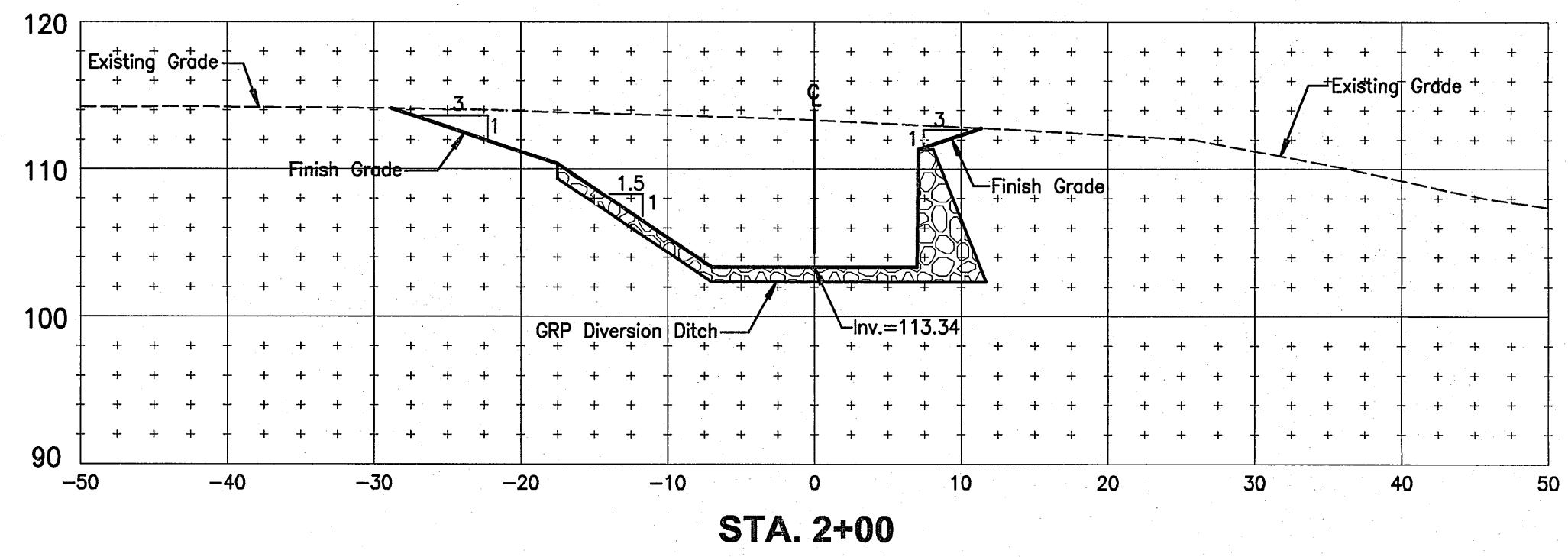
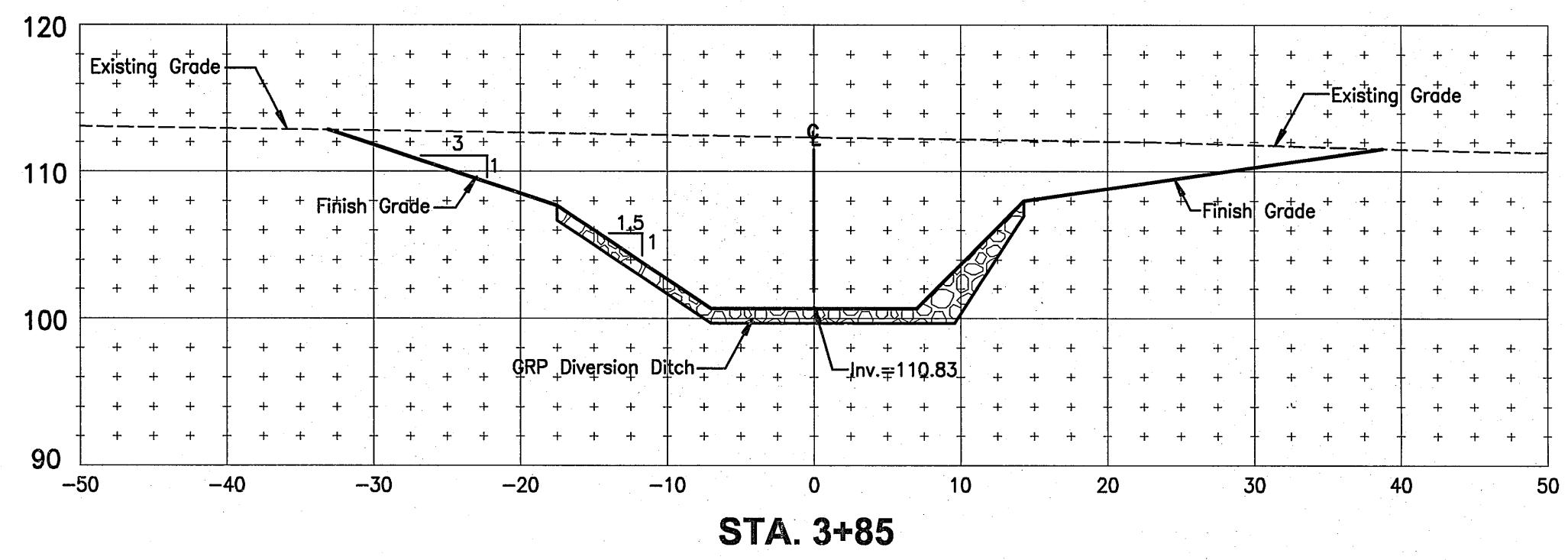
### DETAIL - 6" REINFORCED CONCRETE PAVEMENT

NOT TO SCALE

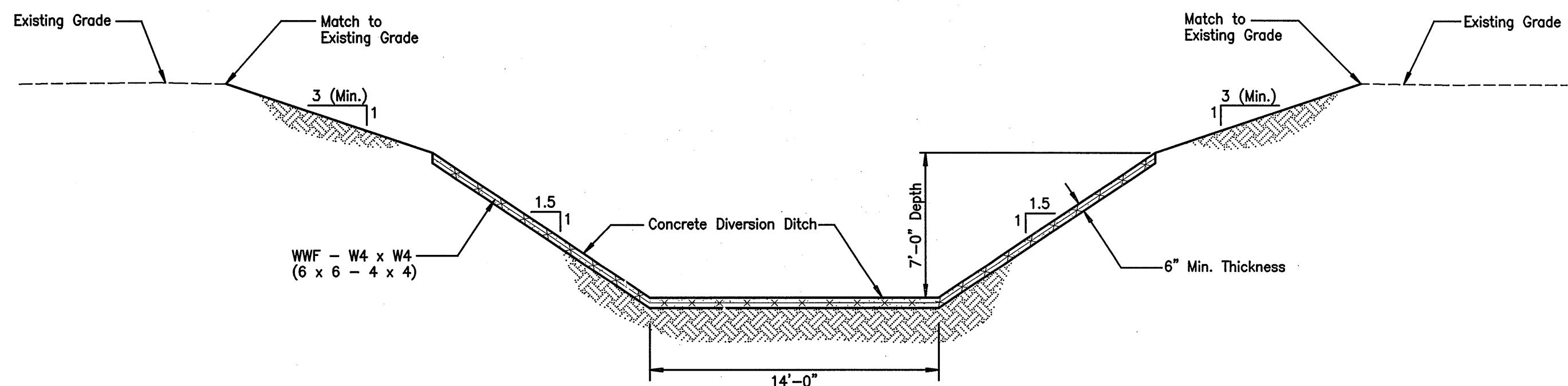
<b>WARREN S. UMEMORI ENGINEERING, INC.</b> CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793	
<b>KAONOULU MARKET PLACE</b> T.M.K.: (2) 3-9-01 : 16 KIHEI, MAUI, HAWAII CROSS SECTIONS ALONG ACCESS ROAD FROM OHUKAI ROAD TO PROJECT SITE	
DTU DESIGNED BY WIS	DTU CHECKED BY DTU APPROVED BY
04010.10 DRAWN BY 10-10-05 SCALE 1 in. = 20 ft.	04010.10 JOB NUMBER 10-10-05 OF SHEETS





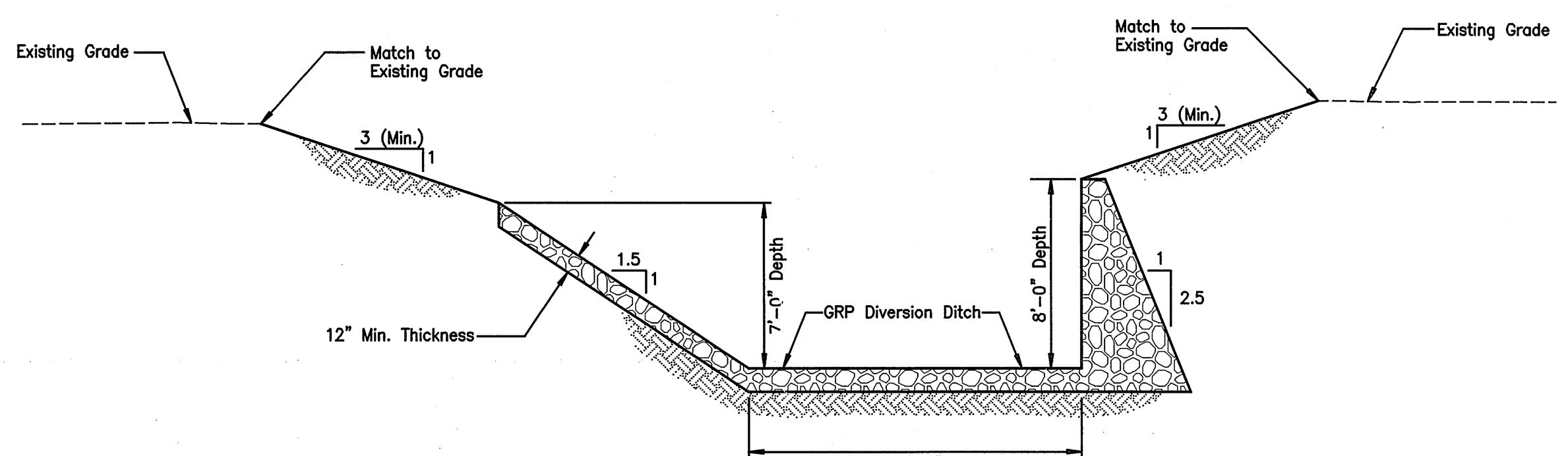


		WARREN S. UNEMORI ENGINEERING, INC.	
		CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS	
		Wells Street Professional Center, Suite 403	
		2145 Wells Street, Wailuku, Maui, Hawaii 96793	
<b>KAONOULU MARKET PLACE</b> T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16 KIHEI, MAUI, HAWAII			
TITLE CROSS SECTIONS - DIVERSION DITCH			
SIGNATURE	DATE	ALU	WSU
DESIGNED BY	CHECKED BY	04010.10	7.12
WIS	APPROVED BY	JOB NUMBER	
DRAWN BY		10-10-05	
SCALE 1 IN. = 10 FT.			
OF SHEETS			



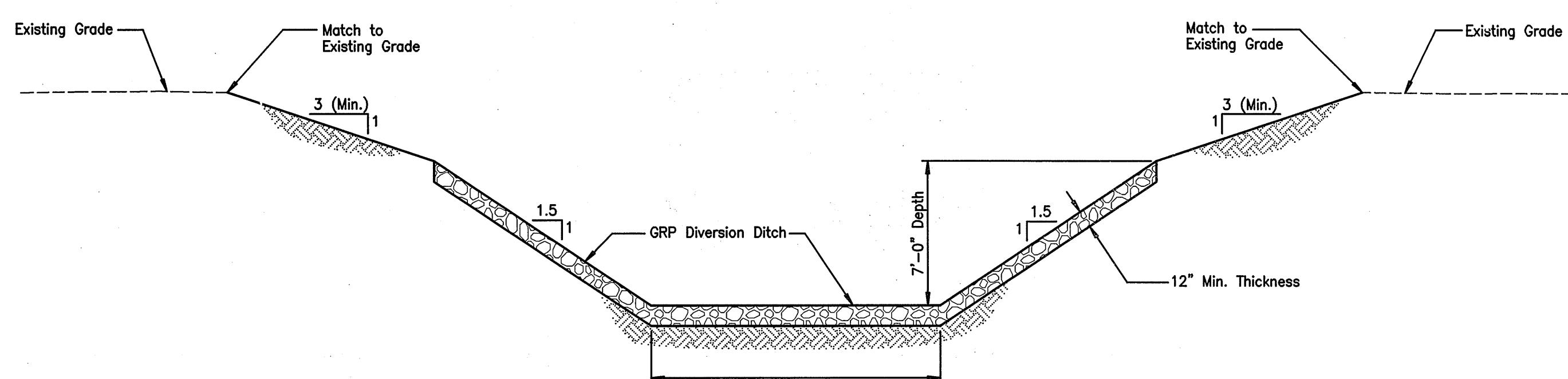
**TYPICAL SECTION A - (STA. 0+00 TO STA. 0+50)**

SCALE: 3/16" = 1'-0"



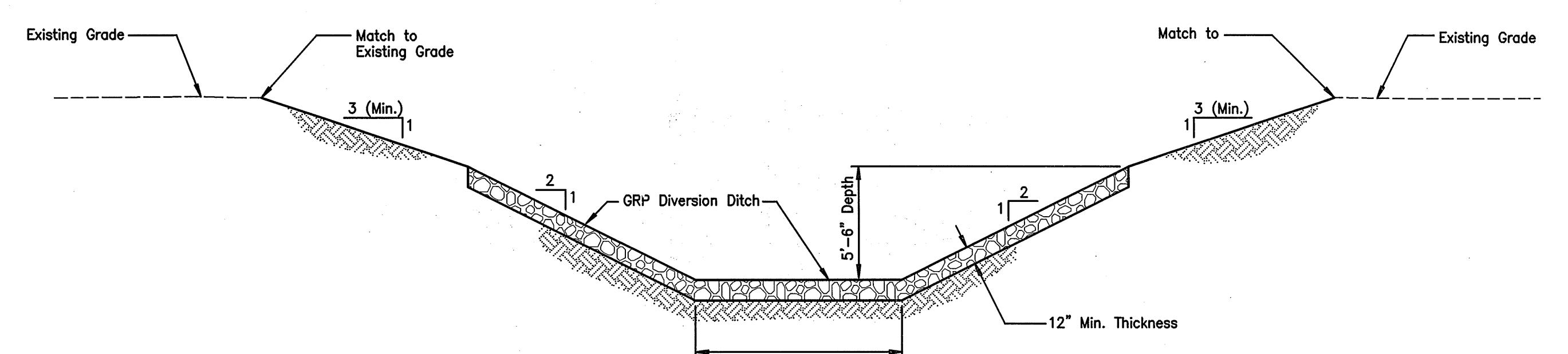
**TYPICAL SECTION B - (STA. 0+91.01 TO STA. 3+65.32)**

SCALE: 3/16" = 1'-0"



**TYPICAL SECTION C - (STA. 4+05 TO STA. 7+50)**

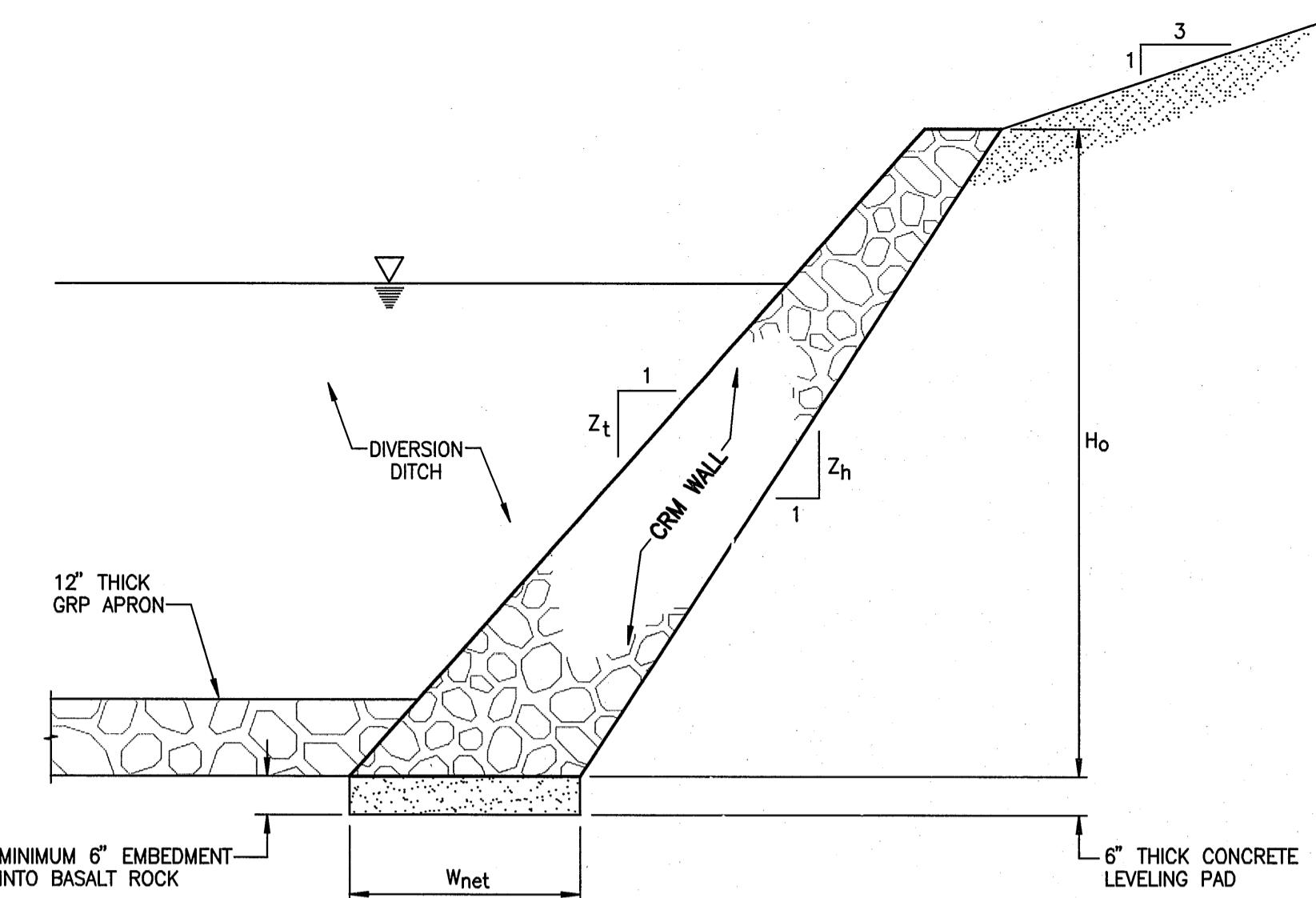
SCALE: 3/16" = 1'-0"



**TYPICAL SECTION D - (STA. 7+80 TO STA. 19+30±)**

SCALE: 3/16" = 1'-0"

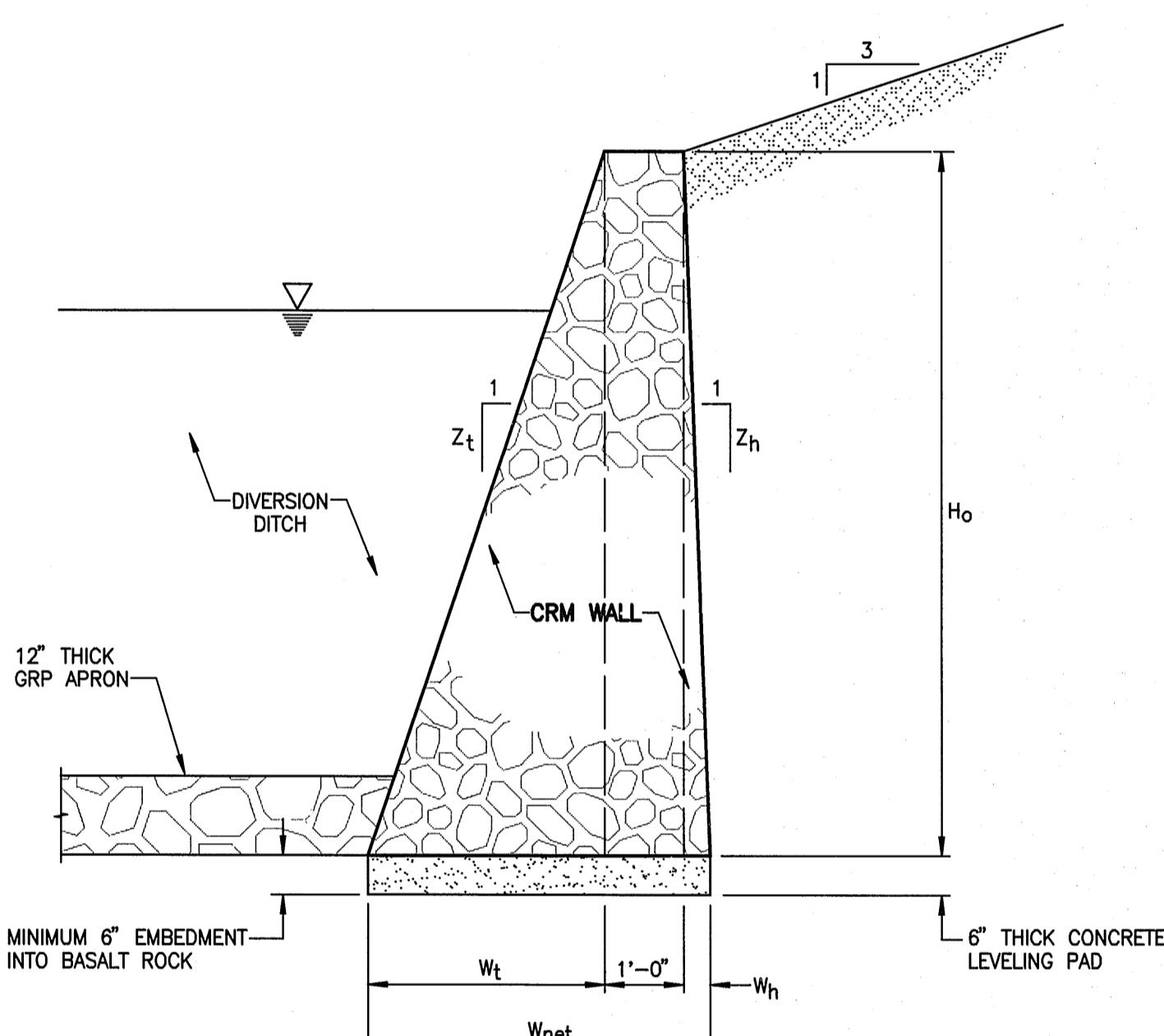
		WARREN S. UNEMORI ENGINEERING, INC.	
		CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793	
		KAONOLU MARKET PLACE T.M.K.: (2) 3-9-01 : 16 KIHEI, MAUI, HAWAII	
TITLE TYPICAL SECTIONS - DIVERSION DITCH			
		SIGNATURE DATE	
		10/16/09	
		10/22/08	
<input checked="" type="checkbox"/> DELETED GRP OUTFALL AND STILLING BASIN  <input checked="" type="checkbox"/> SECTION E CHANGED TO PYRAMAT TRM		ALU DTU	04010.10 JOB NUMBER
<input checked="" type="checkbox"/> SECTION E CHANGED TO PYRAMAT TRM		WIS DTU	10-10-05 DRAWN BY APPROVED BY
		DATE	DATE
		As Shown	7.13 SHEET OF SHEETS



## CROSS-SECTION OF SLOPED RETAINING WALL WITH NEGATIVE HEEL BATTER IN DIVERSION DITCH

BETWEEN STA. 0+50 TO 0+75.63 AND STA. 3+80.20 TO 4+05

**SCALE:** 1/2" = 1'-0"

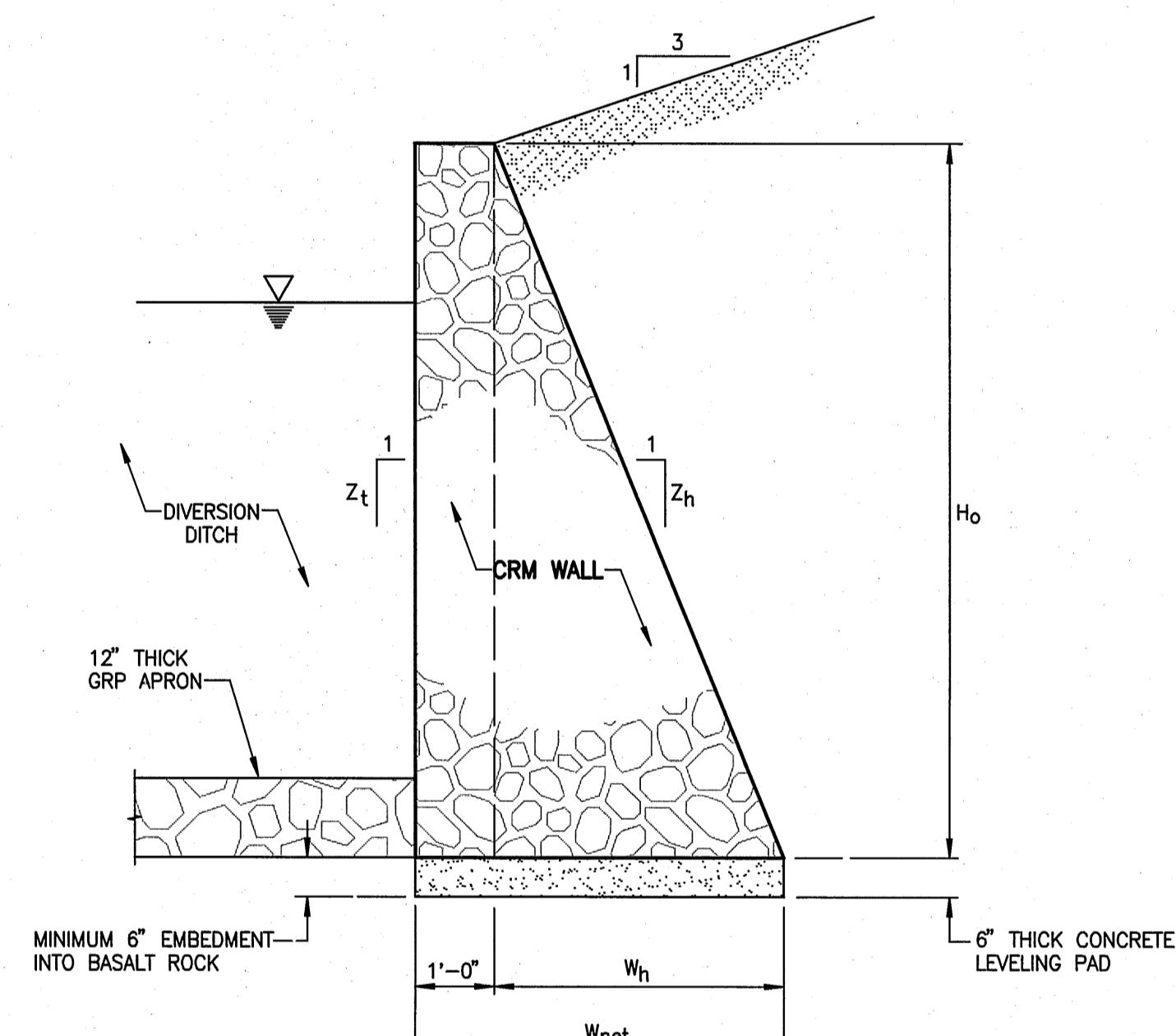


CROSS-SECTION OF SLOPED FACE RETAINING WALL

N DIVERSION DITCH BETWEEN STA. 0+80.76 TO 0+91.01

AND STA. 3+65.32 TO 3+75.24

SCALE: 1/2" = 1'-0"



**CROSS-SECTION OF VERTICAL FACED RETAINING WALL**

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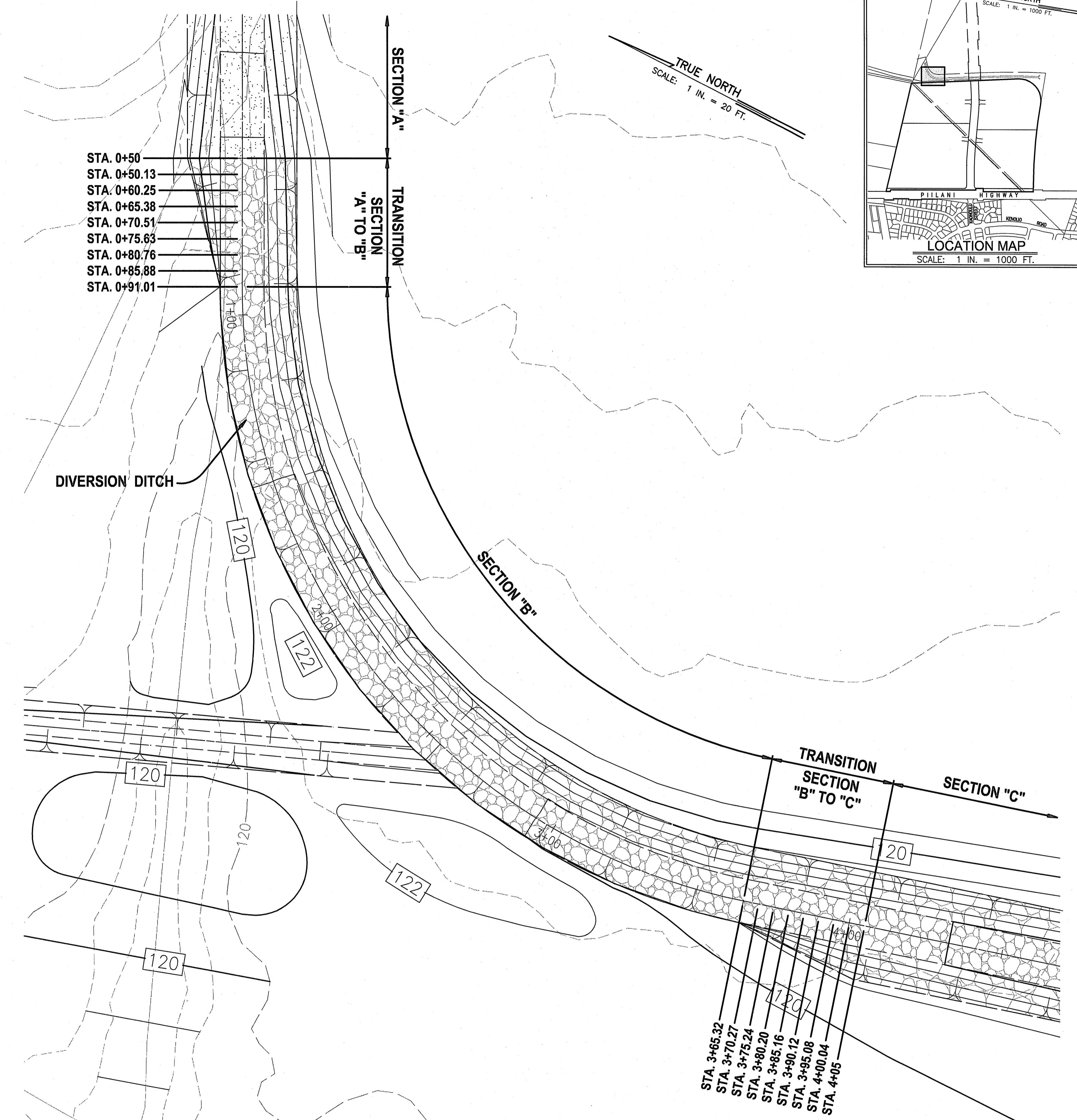
**IN DIVERSION DITCH STA. 0+91.01 TO 3+65.32**

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SCALE: 1/2 = 1'-0"

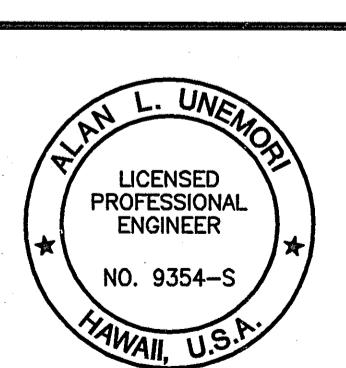
Sta	Wall Height, Ho (ft)	Toe Width	Toe Batter, Zt	Heel Batter, Zh*	Wt	Wh	Leveling Pad Width, Wnet (ft)
0+50	8.00	12.00	0.67	(0.67)	N/A	N/A	1'-2"
0+55.13	8.13	10.50	0.77	(0.85)	N/A	N/A	2'-0"
0+60.25	8.25	9.00	0.92	(1.10)	N/A	N/A	2'-6"
0+65.38	8.38	7.50	1.12	(1.53)	N/A	N/A	3'-0"
0+70.51	8.50	6.00	1.42	(2.50)	N/A	N/A	3'-7"
0+75.63	8.63	4.50	1.92	(7.00)	N/A	N/A	4'-3"
0+80.76	8.75	3.00	2.92	25.00	3'-0"	4"	4'-4"
0+85.88	8.88	1.50	5.92	4.75	1'-6"	1'-10"	4'-4"
0+91.01	9.00	0.00	100.00	2.50	0	3'-8"	4'-8"
3+65.32	9.00	0.00	100.00	2.50	0	3'-8"	4'-8"
3+70.27	8.88	1.50	5.92	4.75	1'-6"	1'-10"	4'-4"
3+75.24	8.75	3.00	2.92	25.00	3'-0"	4"	4'-4"
3+80.20	8.63	4.50	1.92	(7.00)	N/A	N/A	4'-3"
3+85.16	8.50	6.00	1.42	(2.50)	N/A	N/A	3'-7"
3+90.12	8.38	7.50	1.12	(1.53)	N/A	N/A	3'-0"
3+95.08	8.25	9.00	0.92	(1.10)	N/A	N/A	2'-6"
4+00.04	8.13	10.50	0.77	(0.85)	N/A	N/A	2'-0"
4+05	8.00	12.00	0.67	(0.67)	N/A	N/A	1'-2"

\* Note: Heel Batters in Parentheses () indicate heel batter is toward top



## DIVERSION DITCH TRANSITION WALL SECTIONS

SCALE: 1 IN. = 20 FT.



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WELLS STREET PROFESSIONAL CENTER, SUITE 403  
2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

**KAONOULO MARKET PLACE**  
M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16  
KIHEI, MAUI, HAWAII

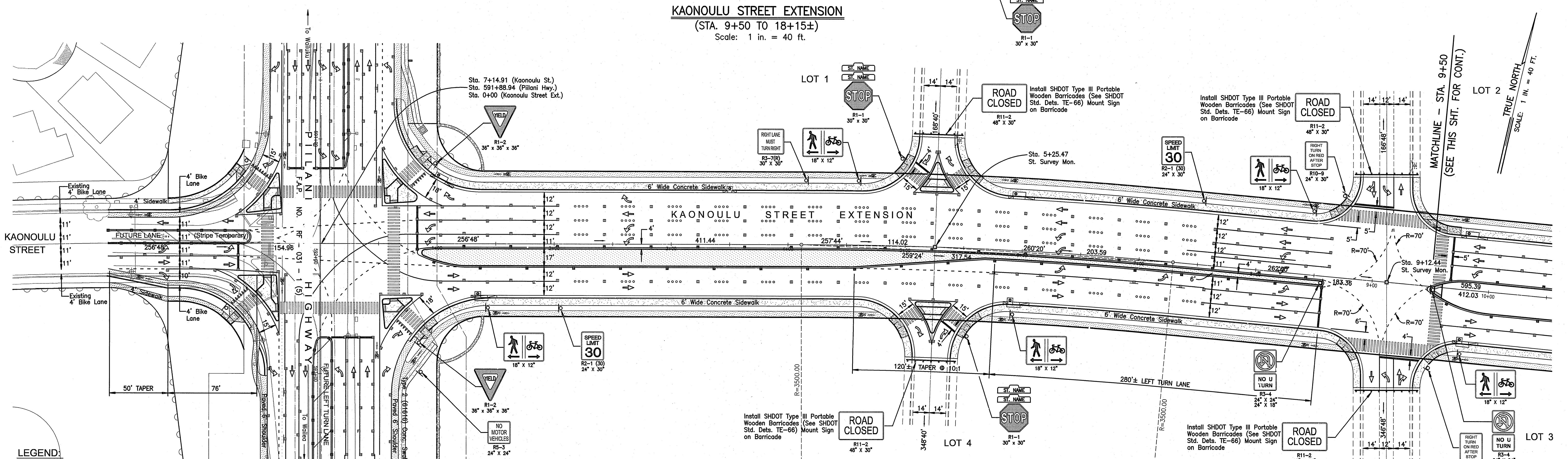
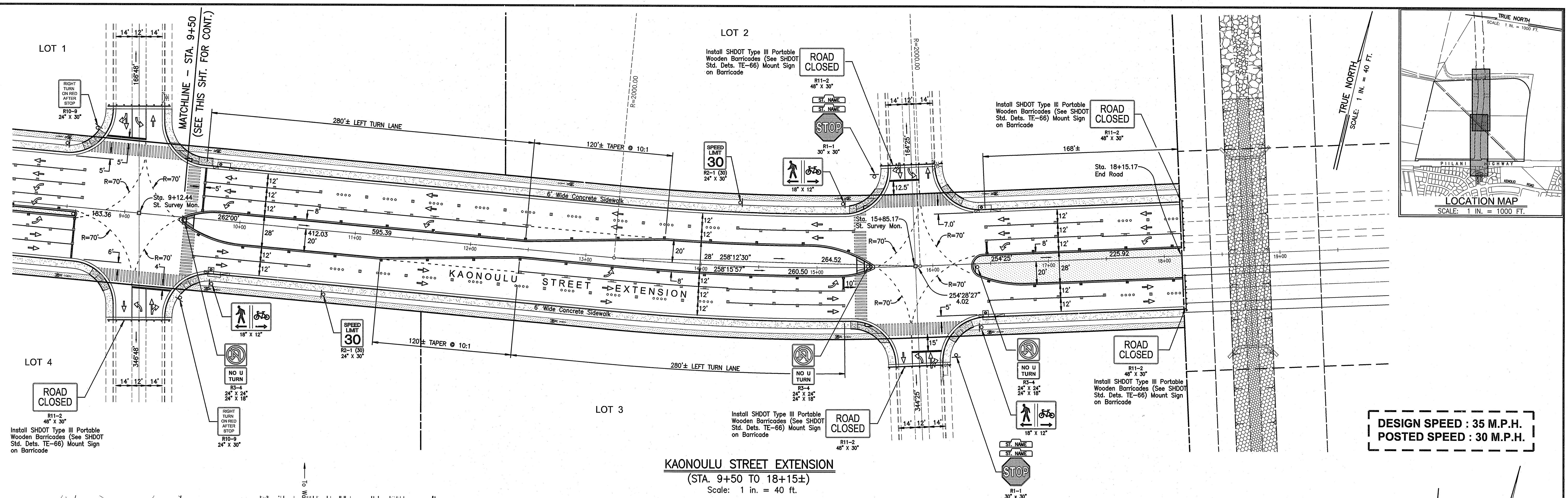
## STANDARD DIVERSION DITCH TRANSITION WALL SECTIONS

ALU WSU 04010\_10

SIGNED BY	CHECKED BY	04010.10	7.14
WIS	WSU	JOB NUMBER	

AWN BY	APPROVED BY	10-10-05	SHEET
AS NOTED			

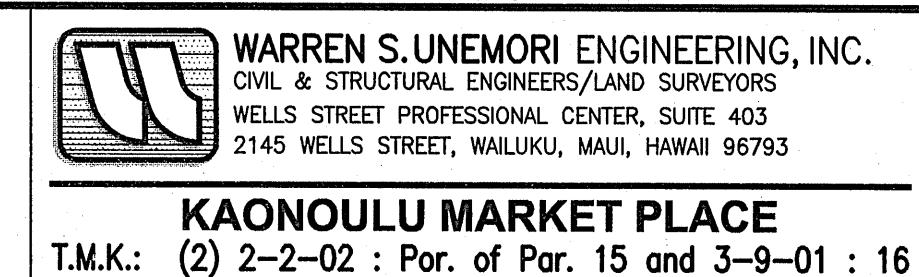
# SHEET



04010.10\dwg2004\compls\stripe00.dwg

- LEGEND:**
- 4" DOUBLE SOLID YELLOW STRIPES WITH TYPE "D" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)
  - 4 EACH TYPE "A" RAISED PAVEMENT MARKERS AT 40'-0" O.C.
  - 4" DOUBLE SOLID YELLOW STRIPES WITH TYPE "H" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)
  - 8" SOLID WHITE STRIPE W/ TYPE "C" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)
  - 4" YELLOW EDGE STRIPE WITH TYPE "H" RAISED PAVEMENT MARKERS AT 40'-0" O.C. (THERMOPLASTIC EXTRUSION)
  - CHANNELIZING ISLAND OR DECELERATION LANE GORE (THERMOPLASTIC EXTRUSION)

- 4" OR 8" WHITE EDGE STRIPE W/ TYPE "C" RAISED PAVEMENT MARKERS AT 40'-0" O.C. (THERMOPLASTIC EXTRUSION)
- BIKE LANE MARKING (THERMOPLASTIC EXTRUSION)
- 4" WHITE GUIDELINES (THERMOPLASTIC EXTRUSION EXCEPT FOR BUS BAYS) (GUIDE LINES FOR TURNING MOVEMENTS THROUGH INTERSECTIONS SHALL BE YELLOW)
- TRANSVERSE MEDIAN MARKING (THERMOPLASTIC EXTRUSION)
- PAVEMENT ARROW (THERMOPLASTIC EXTRUSION)
- CROSSWALK AND STOP LINE. ALL STOP LINES SHALL BE 10'-0" FROM CROSSWALK UNLESS OTHERWISE NOTED. (THERMOPLASTIC EXTRUSION)



KAONOULU MARKET PLACE

T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16

KIHEI, MAUI, HAWAII

SIGNATURE *[Signature]* DATE *[Date]*

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE MONITORED AND CONTROLLED BY THE SECTION 160-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS

NO. 7937-C

LICENSED PROFESSIONAL ENGINEER

NO. 7937-C

HAWAII, U.S.A.

DATE *[Signature]*

ALU DESIGNED BY DTU CHECKED BY 04010.10

WIS DRAWN BY DTU APPROVED BY

10-10-05

8.01 SHEET OF SHEETS

SCALE 1 in. = 40 ft.

DATE *[Signature]*

04010.10

10-10-05

8.01 SHEET OF SHEETS