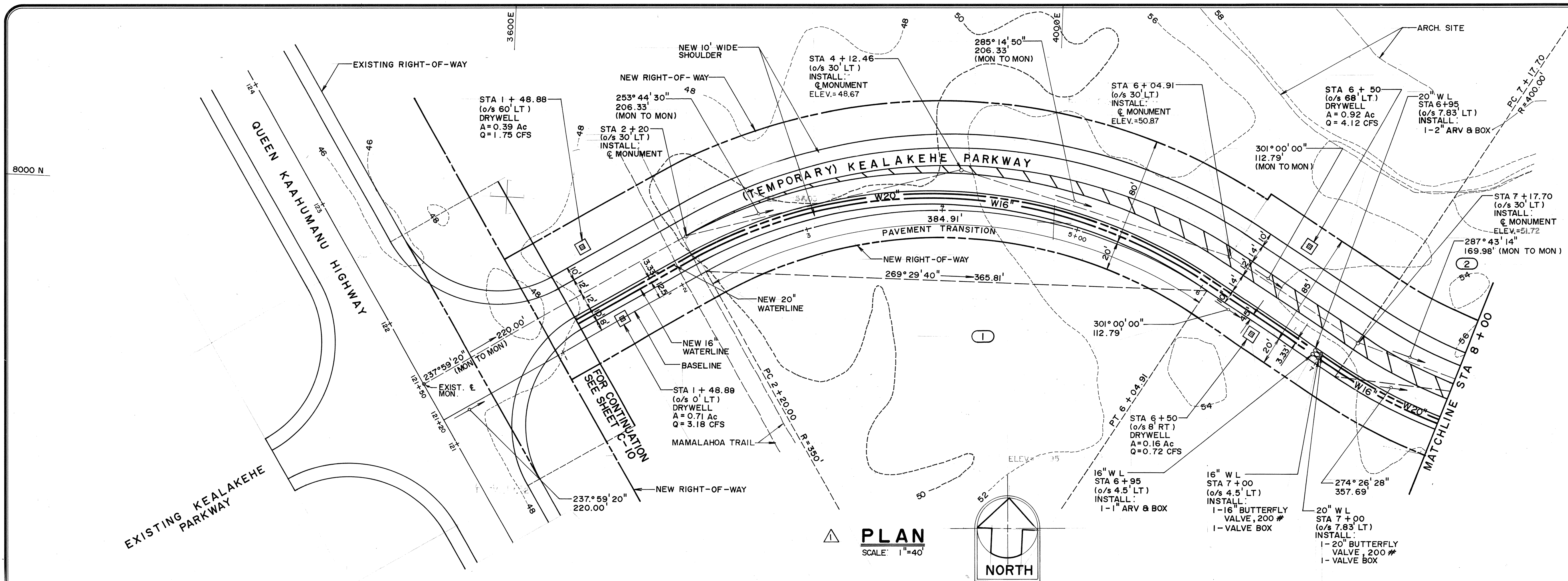
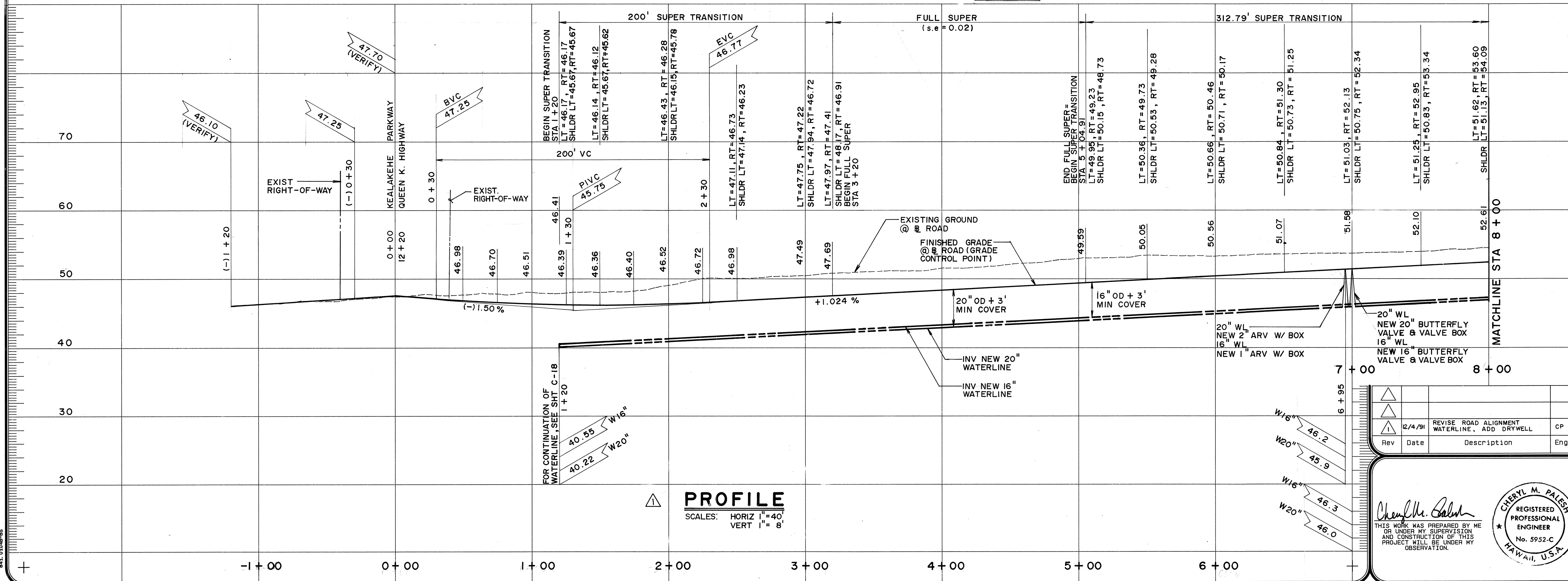




HYDROLOGIC DATA

1-HR RAINFALL = 2.5" (TM-10YR)
TC = 5 MIN
I = 6.40
C = 0.70
CI = (0.70) X (6.40)
= 4.48
Q = (4.48 X A) CFS

B L CURVE DATA		B L CURVE DATA	
1	K.P. (TEMP)	2	K.P. (TEMP)
Δ	63° 00' 40"	Δ	53° 07' 04"
Δ/2	31° 30' 20"	Δ/2	26° 33' 32"
R	350.00'	R	400.00'
T	214.53'	T	199.95'
Ch	365.81'	Ch	357.69'
Lc	384.91'	Lc	370.83'
se	+0.02 FT/FT	se	+0.05 FT/FT



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STATE OF HAWAII

VILLAGES OF LA'I OPUA
MAUKA-MAKAI ROADWAY IMPROVEMENTS
PHASE-1

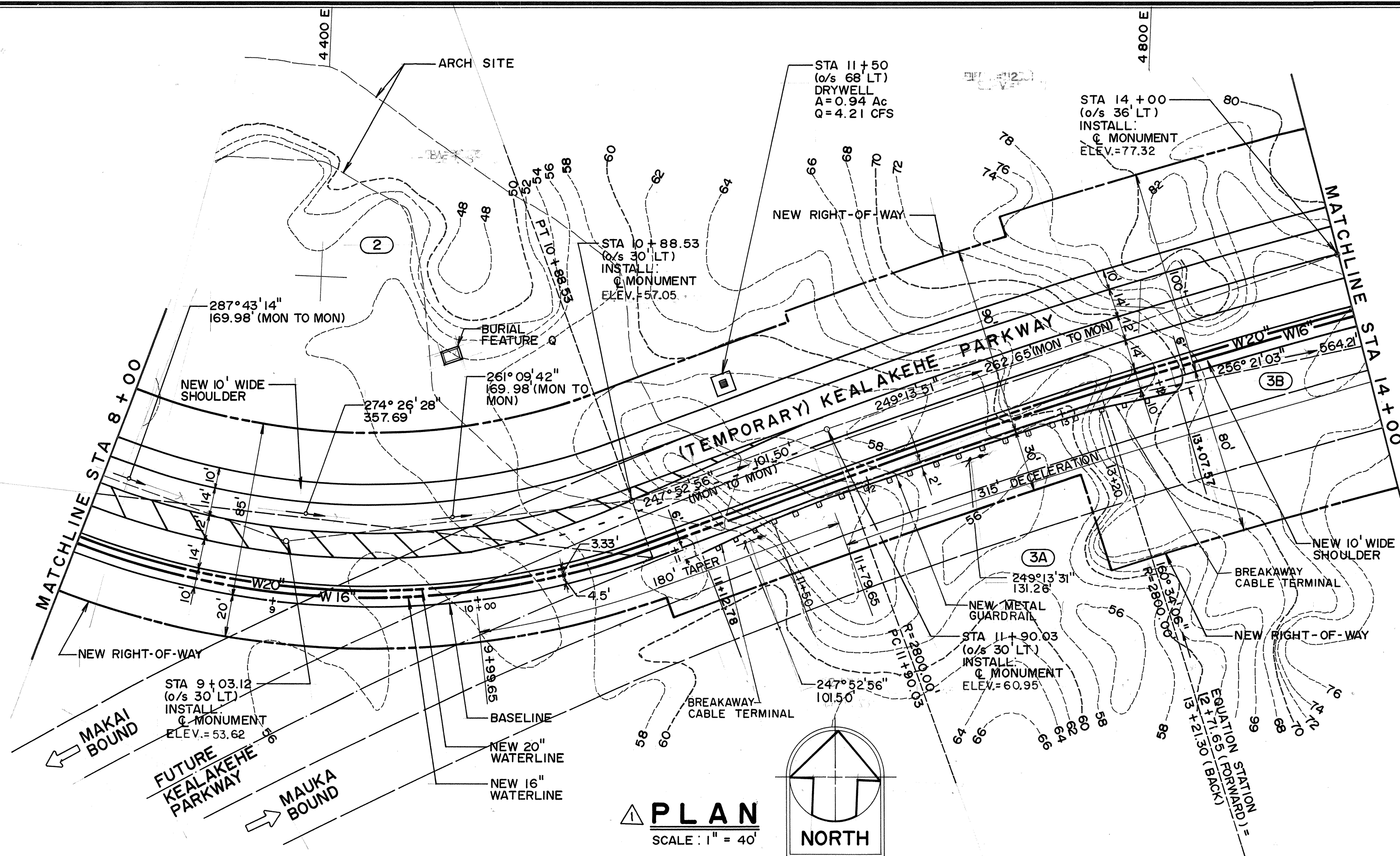
PLAN AND PROFILE
KEALAKEHE PARKWAY
STA 0+00 TO STA 8+00

Designed by: _____ Date: _____
Drawn by: _____ (BCA) 841.0104
Approved: _____ Date: _____

Rev 2/4/91
Description: REVISE ROAD ALIGNMENT WATERLINE, ADD DRYWELL
CP
Eng App

CHERYL M. PALSH
REGISTERED PROFESSIONAL ENGINEER
No. 5952-C
HAWAII, U.S.A.

8000 N

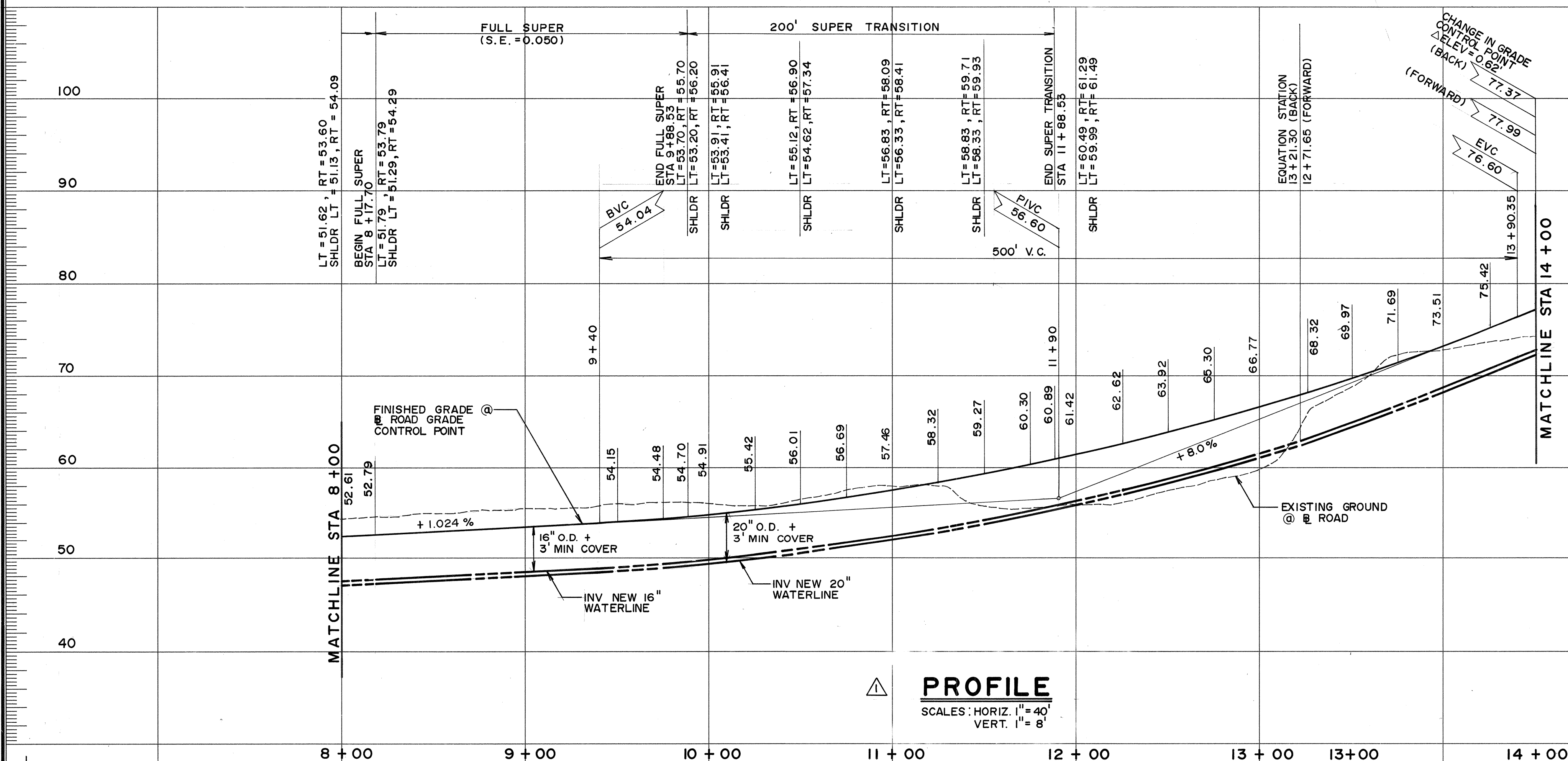
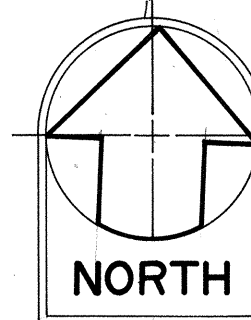


B.L. CURVE DATA	
2	K.P. (TEMP)
$\Delta = 53^\circ 07' 04''$	
$\Delta/2 = 26^\circ 33' 32''$	
$R = 400.00'$	
$T = 199.95'$	
$Ch = 357.69'$	
$Lc = 370.83'$	
$Se = +0.05 \text{ FT/FT}$	

B.L. CURVE DATA	
3A	K.P.
$\Delta = 2^\circ 41' 10''$	
$\Delta/2 = 1^\circ 20' 35''$	
$R = 2800.00'$	
$T = 65.46'$	
$Ch = 131.26'$	
$Lc = 131.27'$	
$Se = -0.02 \text{ FT/FT}$	

B.L. CURVE DATA	
3B	K.P.
$\Delta = 11^\circ 33' 54''$	
$\Delta/2 = 5^\circ 46' 57''$	
$R = 2800.00'$	
$T = 283.55'$	
$Ch = 564.21'$	
$Lc = 565.17'$	
$Se = -0.02 \text{ FT/FT}$	

PLAN
SCALE: 1" = 40'



PROFILE
SCALES: HORIZ. 1" = 40'
VERT. 1" = 8'

Rev	Date	Description	Eng	App
1	12/4/91	REVISE ROAD ALIGNMENT, UTILITIES	CP	

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

Cheryl M. Palesh
REGISTERED PROFESSIONAL ENGINEER
No. 5952-C
HAWAII, U.S.A.

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Consultant:

Client:
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STATE OF HAWAII

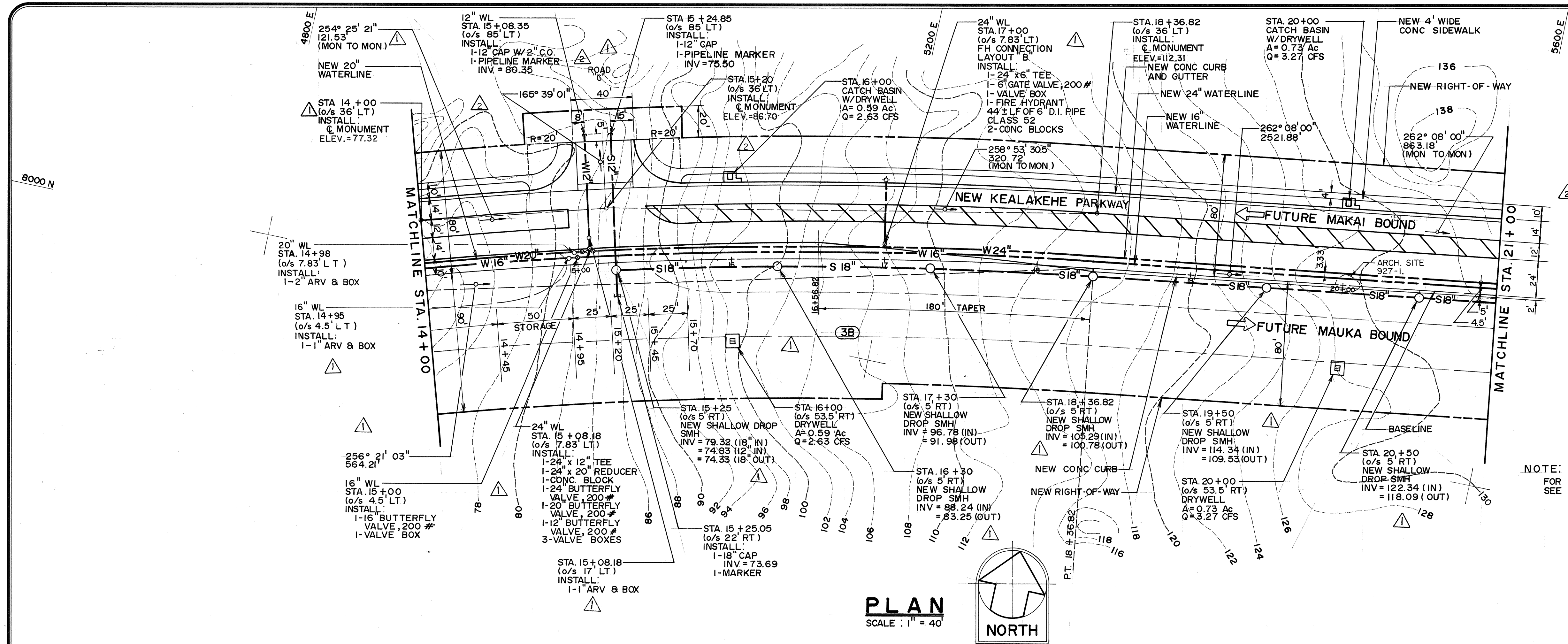
VILLAGES OF LA'I OPUA
MAUKA-MAKAI ROADWAY IMPROVEMENTS
PHASE-1

PLAN AND PROFILE
KEALAKEHE PARKWAY
STA 8+00 TO STA 14+00

Designed by: _____ Date: _____
Drawn by: _____ Proj. no. (BCA) 841.0104

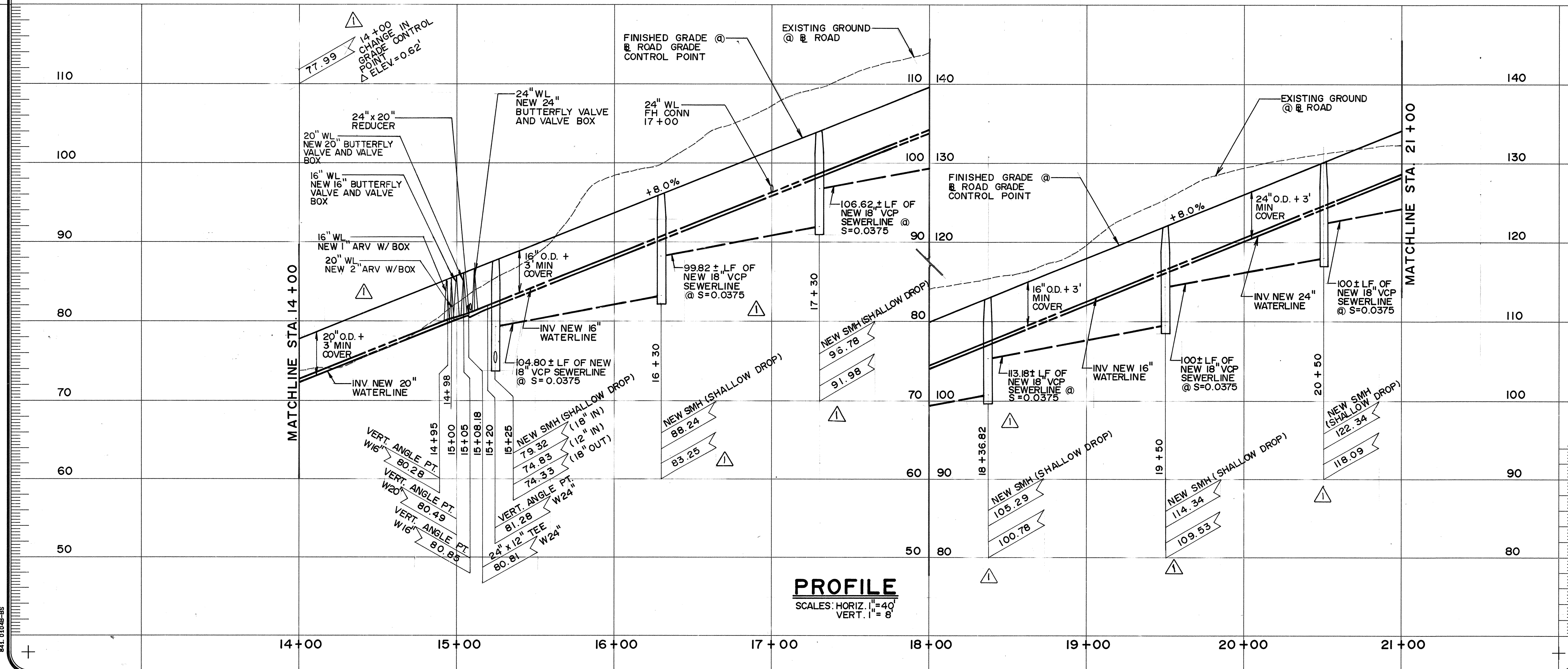
Approved: _____

Date _____



BL CURVE DATA	
3B	K.P.
Δ	$11^{\circ} 33' 54''$
$\Delta/2$	$05^{\circ} 46' 57''$
R	2800.00'
T	283.55'
Ch	564.21'
Lc	565.17'
Se	-0.02 FT/FT

NOTE:
FOR CATCH BASIN DETAILS
SEE SHT. C-17



Rev	Date	Description	Eng	App
1	7-14-92	REVISE ROAD LAYOUT, DELETE WHEELCHAIR RAMP	CP	
2	12/4/91	REVISE ROAD LAYOUT, UTILITIES	CP	

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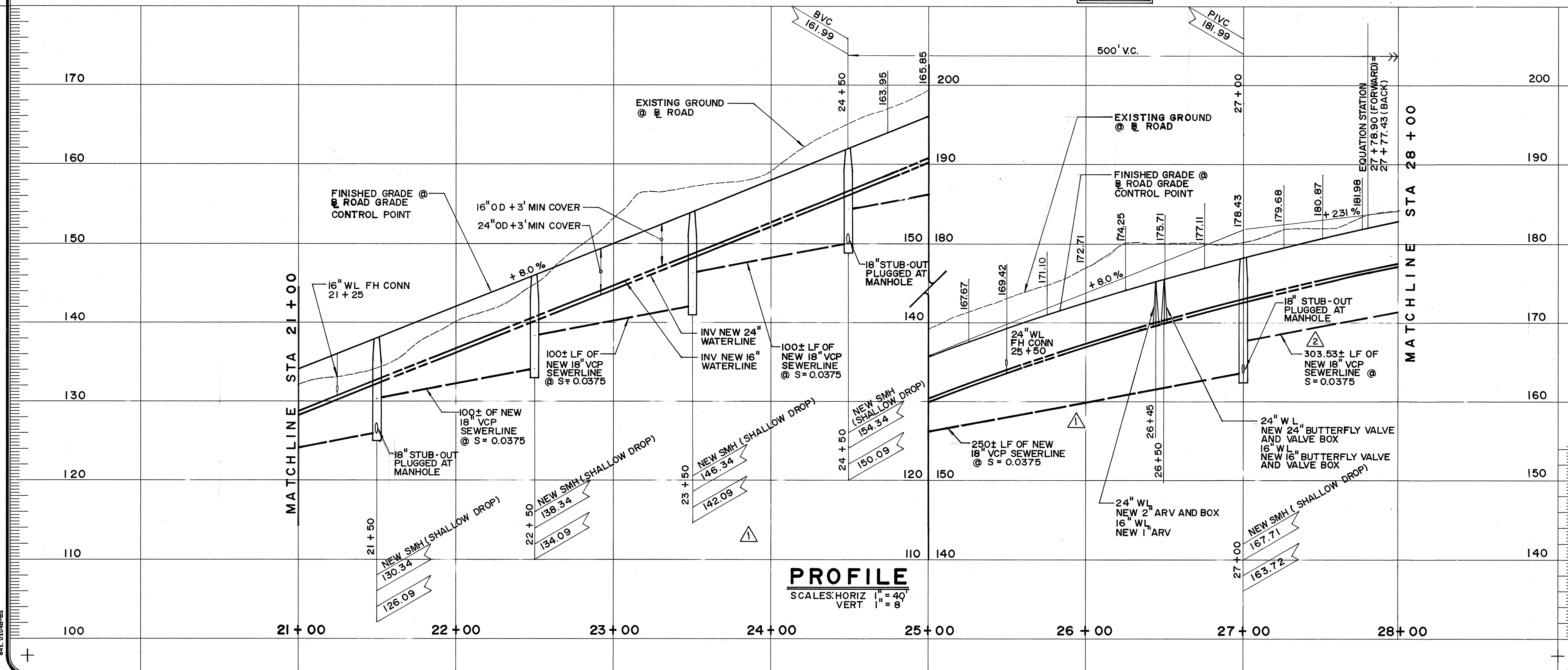
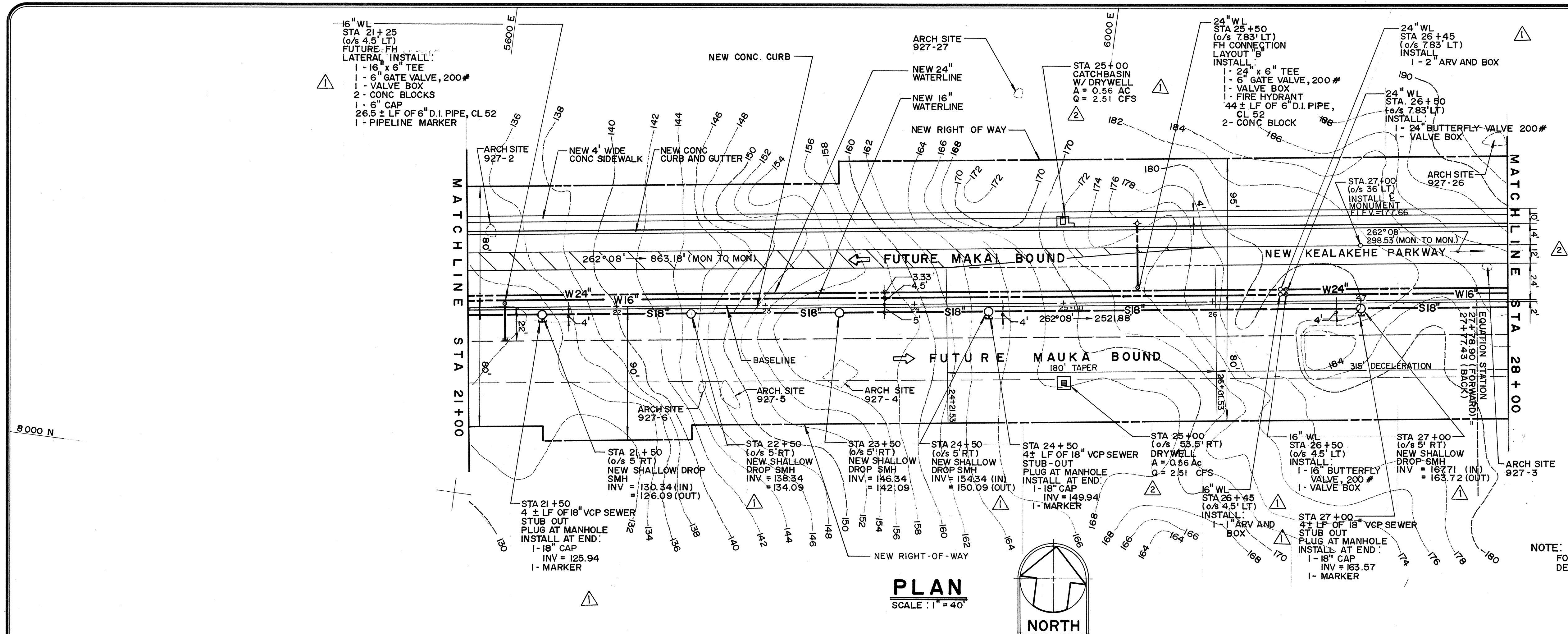
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VILLAGES OF LA'I'OPUA
 MAUKA-MAKAI ROADWAY IMPROVEMENTS
 PHASE-1

PLAN AND PROFILE
 KEALAKEHE PARKWAY
 STA. 14 + 00 TO STA. 21 + 00

Designed by: _____ Date: _____
 Drawn by: _____ Proj. no. (BCA) 841.0104
 Approved: _____ Date: _____



NOTE:
FOR CATCH BASIN
DETAILS SEE SHT C-17

Rev	Date	Description	Eng	App
1	7-14-92	REVISE ROAD LAYOUT	CP	
2	12/4/91	REVISE UTILITIES	CP	

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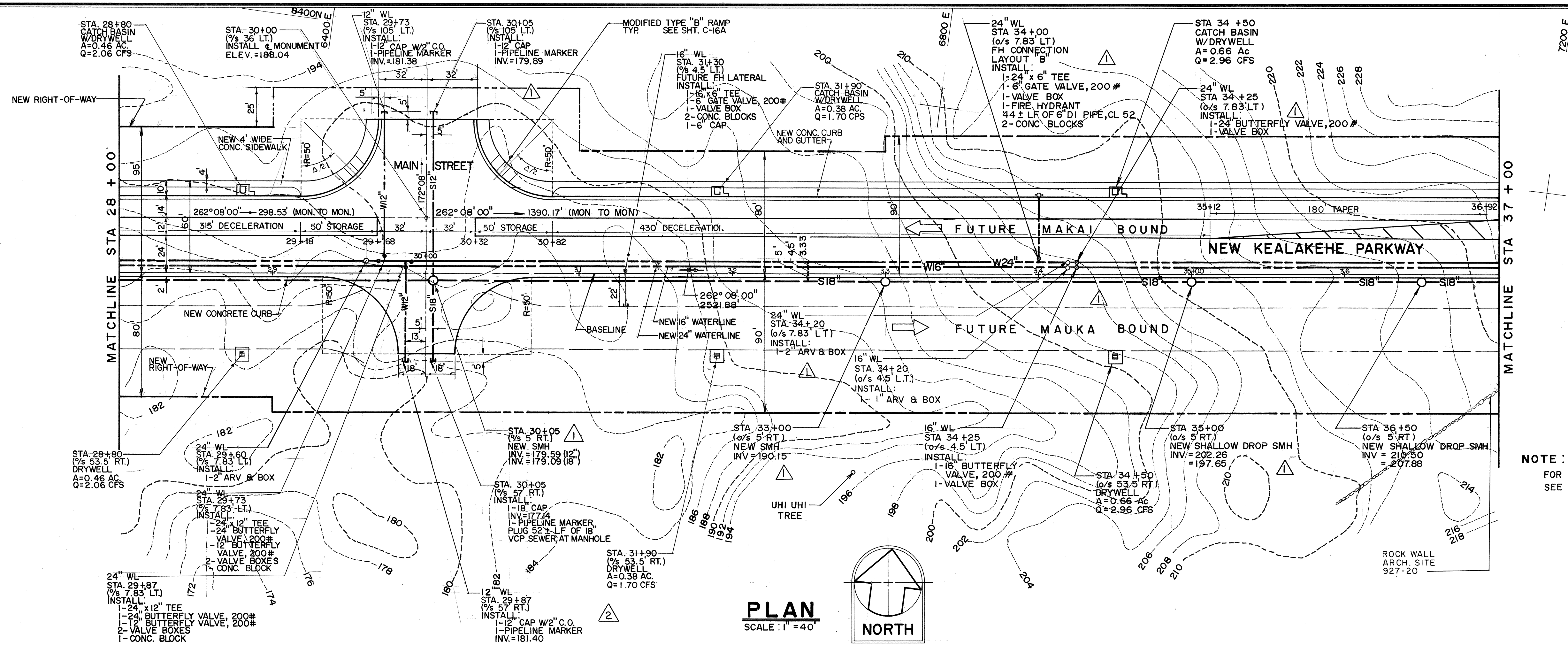
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STATE OF HAWAII

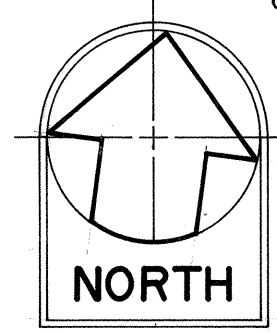
VILLAGES OF LA'I OPUA
MAUKA-MAKAI ROADWAY IMPROVEMENTS
PHASE-1

PLAN AND PROFILE
KEALAKEHE PARKWAY
STA 21+00 TO STA 28+00

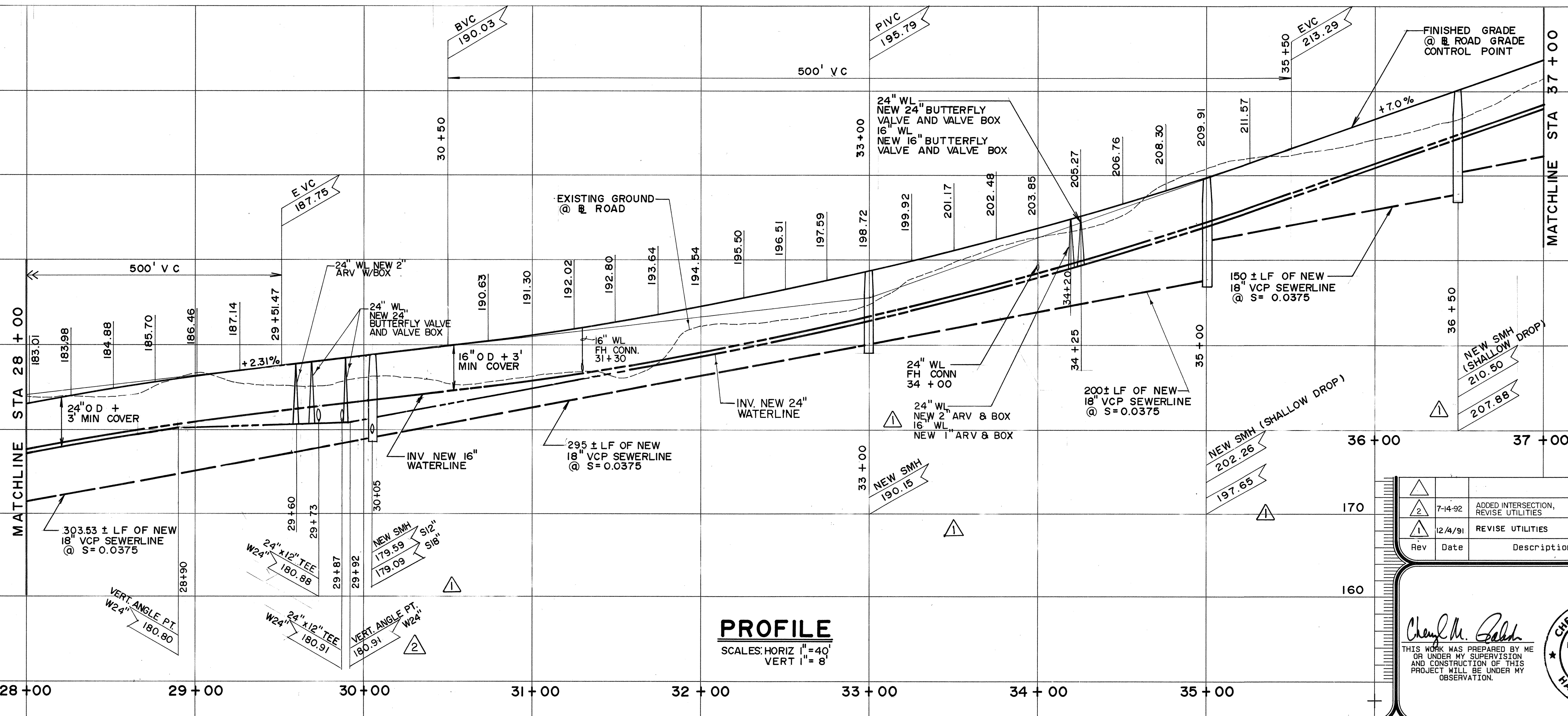
Designed by: _____ Date: _____
Drawn by: _____ Proj. no. (BCA) 841.0104
Approved: _____
Date: _____



PLAN
SCALE: 1" = 40'



NOTE:
FOR CATCH BASIN DETAILS
SEE SHEET C-17



PROFILE
SCALE: HORIZ 1" = 40'
VERT 1" = 8'

Rev	Date	Description	Eng	App
1	7-14-92	ADDED INTERSECTION, REVISE UTILITIES	CP	
2	12-4-91	REVISE UTILITIES	CP	

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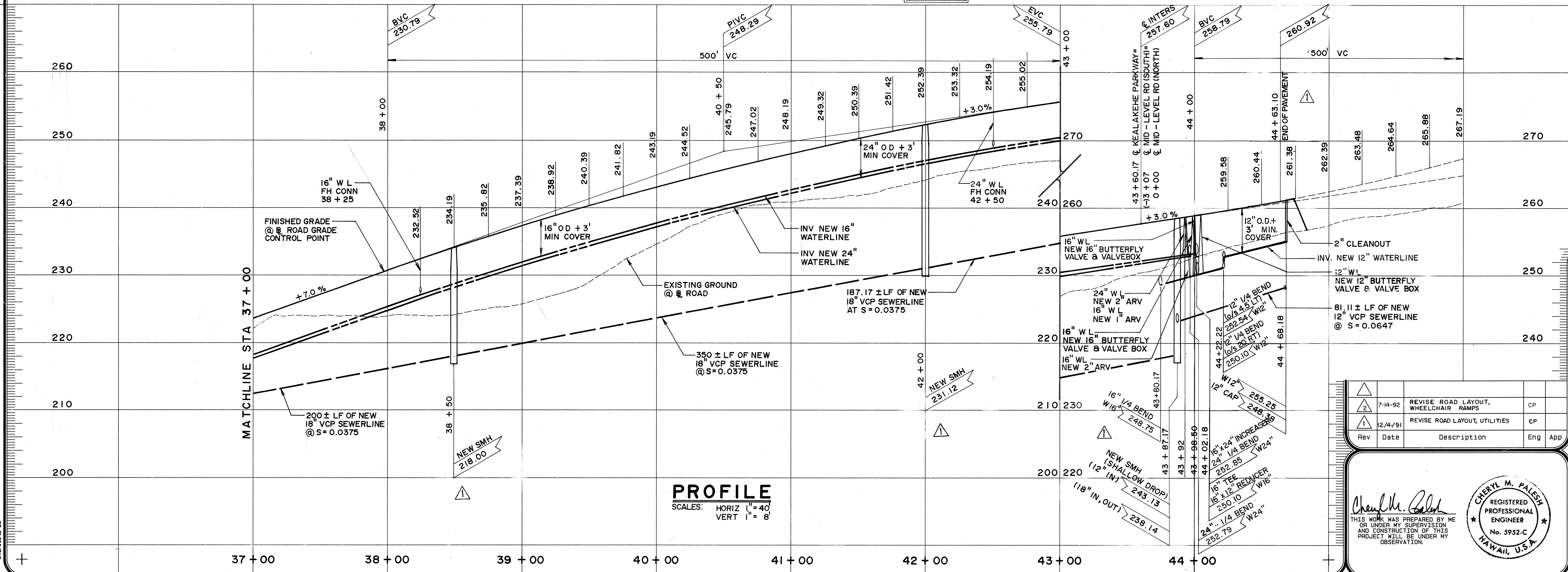
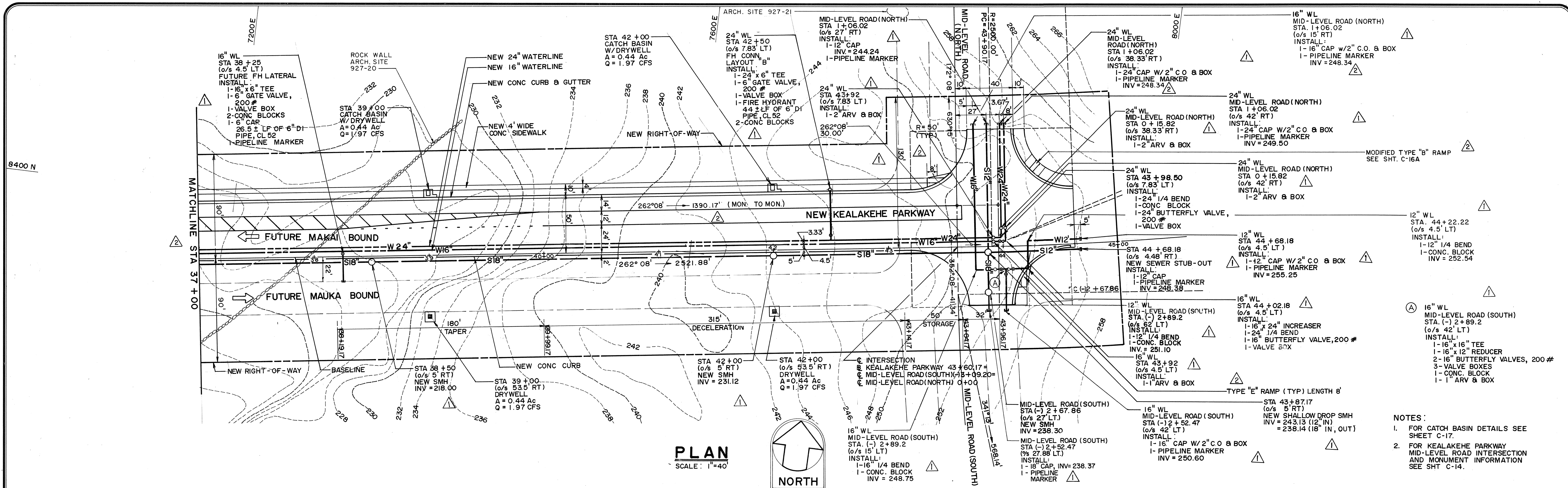
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VILLAGES OF LA'I'OPUA
MAUKA-MAKAI ROADWAY IMPROVEMENTS
PHASE-1

PLAN AND PROFILE
KEALAKEHE PARKWAY
STA 28+00 TO STA 37+00

Designed by: _____ Date: _____
Drawn by: _____ Proj. no. (BCA) 841.0104
Approved: _____
Date: _____



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VILLAGES OF LA'I OPUA
MAUKA-MAKAI ROADWAY IMPROVEMENTS
PHASE-1

PLAN AND PROFILE
KEALAKEHE PARKWAY
STA 37+00 TO STA 44+63.10

Designed by: _____ Date: _____
Drawn by: _____ Proj. no. (BCA) 841.0104
Approved: _____
Date: _____

Rev	Date	Description	Eng	App
1	7-14-92	REVISE ROAD LAYOUT, WHEELCHAIR RAMPS	CP	
2	12/4/91	REVISE ROAD LAYOUT, UTILITIES	CP	