

### SURVEY SYMBOLS

- GDL Guard Rail Steel
- D Centerline Draw or Stream (Down)
- DU Centerline Draw or Stream (Up)
- TDC Tree Deciduous
- SI Sign
- BNK Stream Bank
- EW Edge of Water
- TEV Evergreen Tree
- HDG Hedge Row
- LP L.P. Tank
- DIK Centerline of Dike or Dam
- SHR Shrub
- SI Sign
- RET Retaining Walls
- FWD Wood Fence
- FCL Chain Link and Security Fence
- LUM Luminaire
- FLG Flag Poles
- WM Wind Mill
- STP Stump
- CIS Cistern
- PPA Power Pole Co. 1
- PR Electric Riser Pole
- PPB Power Pole Co. 2
- LUM Luminaire
- PPD Power Pole Co. 4
- PPC Power Pole Co. 3
- PPE Power Pole Co. 5
- RT Radio Tower
- UB Utility Box
- SI Sign
- TPD Telephone Pedestal
- TIL Tile Line
- OUT Tile Outlet
- MM Mile Marker Post
- MH Utility Access (Manhole)
- WV Water Valve
- WH Water Hydrant
- CIS Cistern
- MIS Miscellaneous
- WEL Well
- EB Electrical Box
- St.S. STA Storm Sewer Line Co. 1
- IN Storm Sewer Intake
- INB Storm Sewer Beehive Intake
- SEP Septic Tank
- WM Wind Mill

### UTILITY LEGEND

- E3 ELC Underground Electric Line Co. 3
- T1 TLA Underground Telephone Line Co. 1
- E1 ELA Underground Electric Line Co. 1
- T2 TLB Underground Telephone Line Co. 2
- E2 ELB Underground Electric Line Co. 2
- T4 TLD Underground Telephone Line Co. 4
- W WLA Underground Water Line Co. 1
- T3 TLC Underground Telephone Line Co. 3
- F02 FOB Underground Fiber Optic Co. 2

### PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	Description
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
SHADING		
Design Color No.		
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Pavement Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading

### PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	Description
Green	(2)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- High Tension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

### RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- Access Control
- Property Line

## PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D, E, F, & K)

York TWP.  
T-83N R-13W  
SEC. 25



Sta. 458' X 40' PPCB Bridge  
(By Others)

**STA. 700+83.66  
BEGIN CONSTRUCTION**

STA 711+04.39, 425.82' LT  
4' X 4' X 23.8' RCB  
U.A.C.

Sta. 708+50.00  
Install  
F.L. = Lt.  
Rt.

24' X 46.2'  
C.M.P.  
Remove

FDT Sta 690+00.00

695

700

705

710

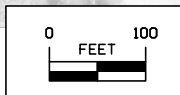
715

720

30

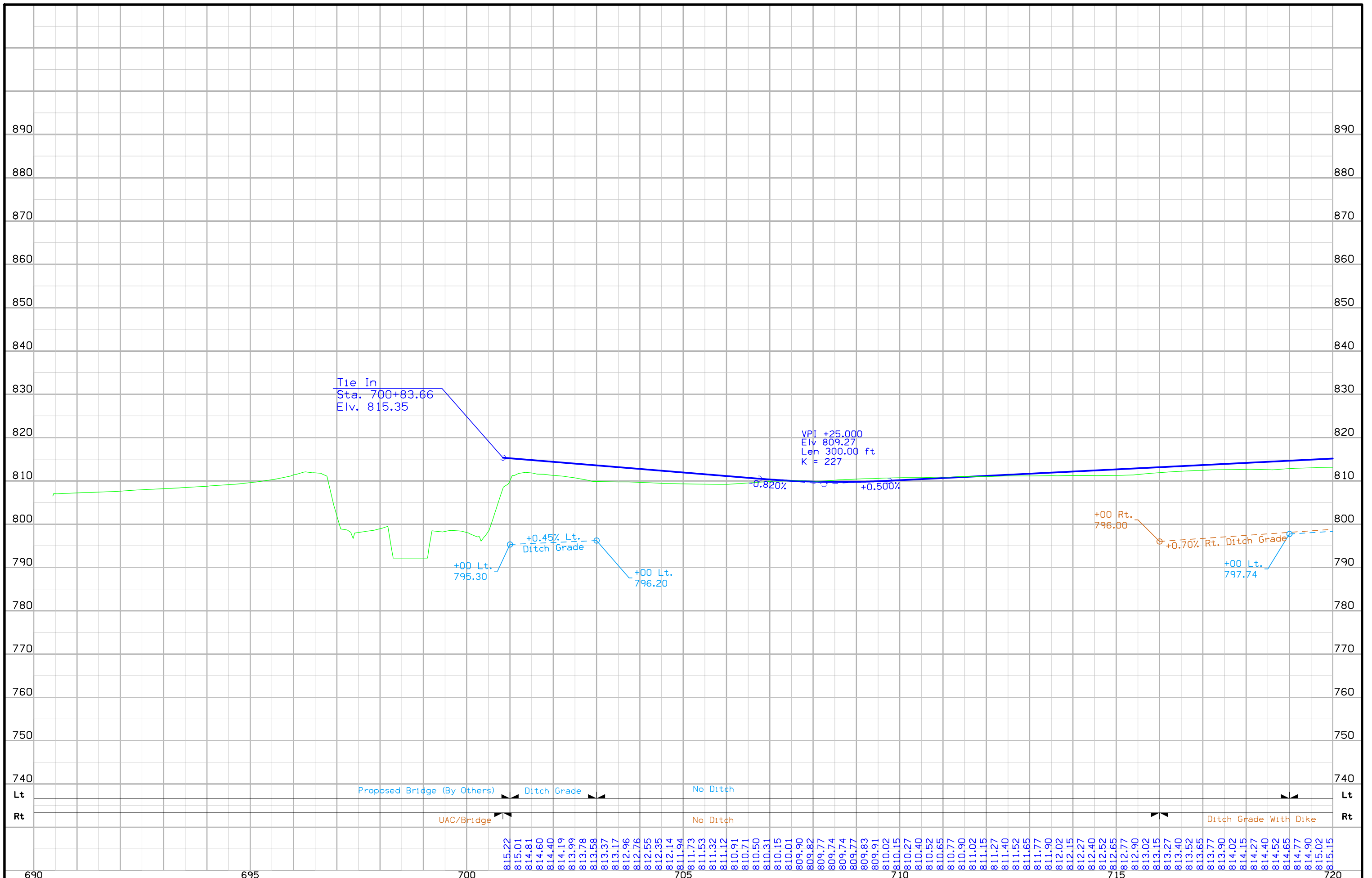
STA 698+00.00  
44' X 406' PPCB BRIDGE  
DA = ?  
(U.A.C.)

York TWP.  
T-83N R-13W  
SEC. 36



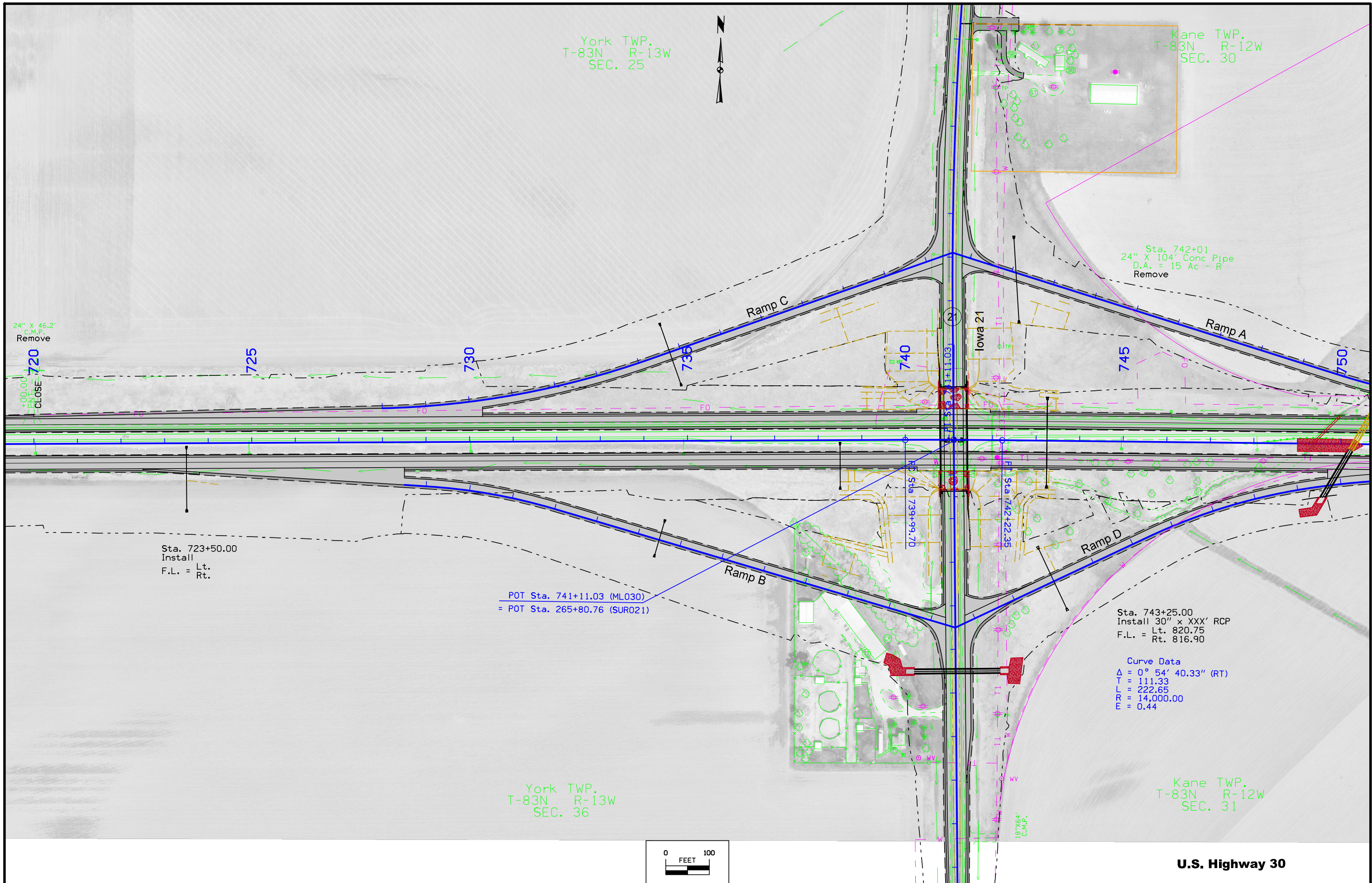
**U.S. Highway 30**

FILE NO.	ENGLISH	DESIGN TEAM <b>Flattery\Bell</b>	<b>BENTON</b> COUNTY	PROJECT NUMBER <b>NHS-030-6(87)--19-06</b>	SHEET NUMBER <b>D.2</b>
----------	---------	----------------------------------	----------------------	--	-------------------------



FILE NO.	ENGLISH	DESIGN TEAM	<b>Flattery\Bell</b>	BENTON COUNTY	PROJECT NUMBER	<b>NHS-030-6(87)--19-06</b>	SHEET NUMBER	<b>D.3</b>
----------	---------	-------------	----------------------	---------------	----------------	-----------------------------	--------------	------------

9:06:05 AM 1/28/2016 jbuttol pw:\projectwise.dot.int.lan:PWMain\Documents\Projects\0603003092\Design\06030087D03.sht



York TWP.  
T-83N R-13W  
SEC. 25

Kane TWP.  
T-83N R-12W  
SEC. 30

York TWP.  
T-83N R-13W  
SEC. 36

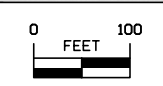
Kane TWP.  
T-83N R-12W  
SEC. 31

Sta. 723+50.00  
Install  
F.L. = Lt.  
Rt.

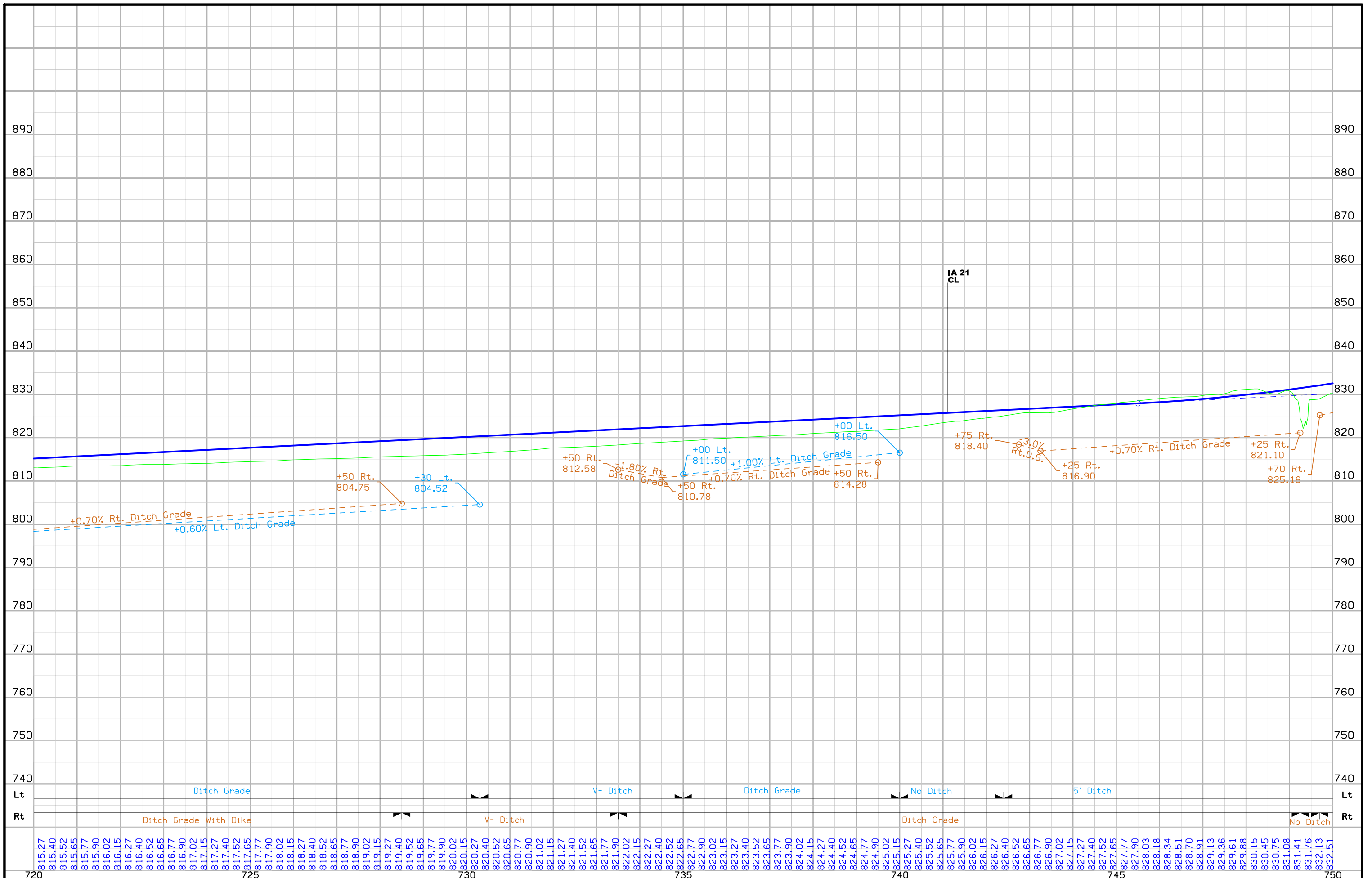
POT Sta. 741+11.03 (ML030)  
= POT Sta. 265+80.76 (SUR021)

Sta. 743+25.00  
Install 30" x XXX' RCP  
Lt. 820.75  
F.L. = Rt. 816.90

Curve Data  
Δ = 0° 54' 40.33" (RT)  
T = 111.33  
L = 222.65  
R = 14,000.00  
E = 0.44



**U.S. Highway 30**



FILE NO.	ENGLISH	DESIGN TEAM	<b>Flattery\Bell</b>	BENTON COUNTY	PROJECT NUMBER	<b>NHS-030-6(87)--19-06</b>	SHEET NUMBER	<b>D.5</b>
----------	---------	-------------	----------------------	---------------	----------------	-----------------------------	--------------	------------

Sta. 749+68  
Skew 45 LT AHEAD  
8' X 6' X 83' RCB  
D.A. = 316 Ac - R  
Remove

Sta. 848+25.00  
Build X' x X' RCB  
Skew = 60° Lt. Ahd.  
F.L. = Lt. 824.00  
Rt. 820.70  
Design No.

Kane TWP.  
T-83N R-12W  
SEC. 30



Sta. 778+27.85 (PHASE 2)  
Extend 30" x 114' RCP  
with 30" x 110' RCP  
F.L. = Lt. 899.17  
Rt. 903.18  
Other 906.37

Sta. 778+27  
2' X 2' X 71' RCB  
D.A. = 7 Ac - VH  
Remove

24" X 49.6'  
C.M.P.  
Remove

760

765

770

775

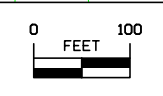
780

Sta. 753+50.00  
Install  
F.L. = Lt.  
Rt.

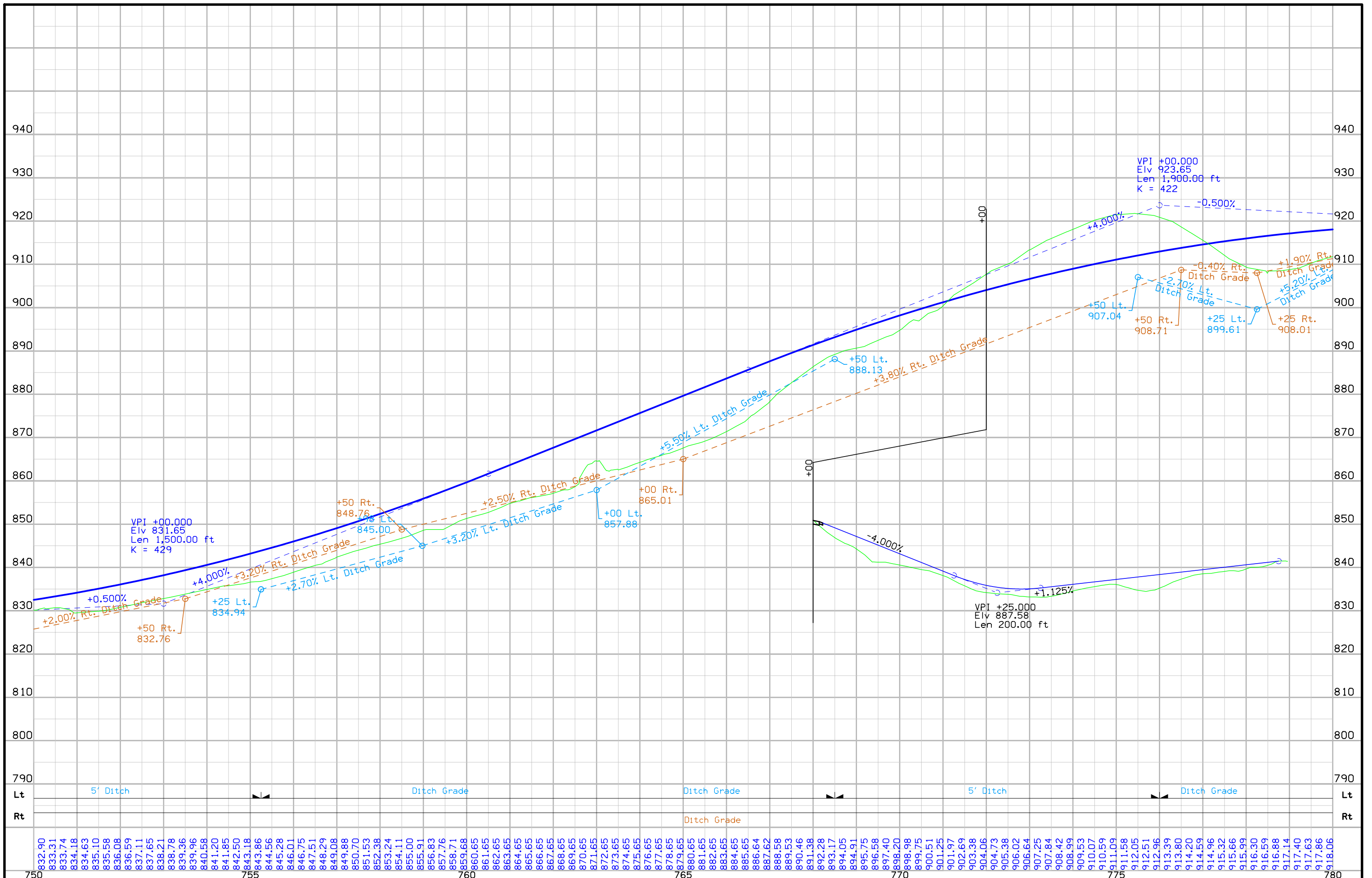
36" X 58.3'  
C.M.P.  
Remove

Sta. 778+27.85 (PHASE 1)  
Install 30" x 114' RCP  
F.L. = Lt. 906.47  
Rt. 908.01

Kane TWP.  
T-83N R-12W  
SEC. 31



U.S. Highway 30



FILE NO.	ENGLISH	DESIGN TEAM	<b>Flattery\Bell</b>	BENTON COUNTY	PROJECT NUMBER	<b>NHS-030-6(87)--19-06</b>	SHEET NUMBER	<b>D.7</b>
----------	---------	-------------	----------------------	---------------	----------------	-----------------------------	--------------	------------

Kane TWP.  
T-83N R-12W  
SEC. 30

Kane TWP.  
T-83N R-12W  
SEC. 29

Sta. 785+19  
24" X 69' Conc Pipe  
D.A. = 8 Ac - R  
Remove

Sta. 785+19.80 (PHASE 2)  
Extend 24" x 134' RCP  
with 24" x 98' RCP  
F.L. = Lt. 903.13  
Rt. 907.91  
Other 907.91

Sta. 788+00.00  
Install  
F.L. = Rt.

Sta. 788+97.75  
Build 5' x 4' 3:1 Flume & Basin  
F.L. = Lt. 893.87  
Rt. 905.33  
Design No.

Sta. 794+80.00 (PHASE 2)  
Extend 24" x 112' RCP  
with 24" x 84' RCP  
F.L. = Lt. 916.70  
Rt. 919.22

24" X 51.8'  
C.M.P.  
Remove

POT Sta. 790+39.23 (ML030)  
= POT Sta. 11790+40 (SR11THAVE)

Sta. 788+97  
3' X 3' X 65' RCB  
D.A. = 38 Ac - R  
Sta. 788+97.75 (PHASE 1)  
Extend 42" x 64' RCP  
F.L. = Lt. 905.33  
Rt. 906.19

Sta. 785+19.80 (PHASE 1)  
Install 24" x 134' RCP  
F.L. = Lt. 907.91  
Rt. 908.00

Sta. 790+63, 60' RT  
36" X 43' Conc Pipe  
D.A. = 33 Ac - R  
Remove

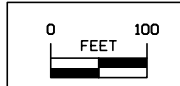
Sta. 794+87  
24" X 67' Conc Pipe  
D.A. = 13 Ac - R  
Remove

Sta. 794+80.00 (PHASE 1)  
Install 24" X 112' RCP  
F.L. = Lt. 919.05  
Rt. 922.52

+70.00 Prop.  
Type M Dike  
Elev. = 924.36

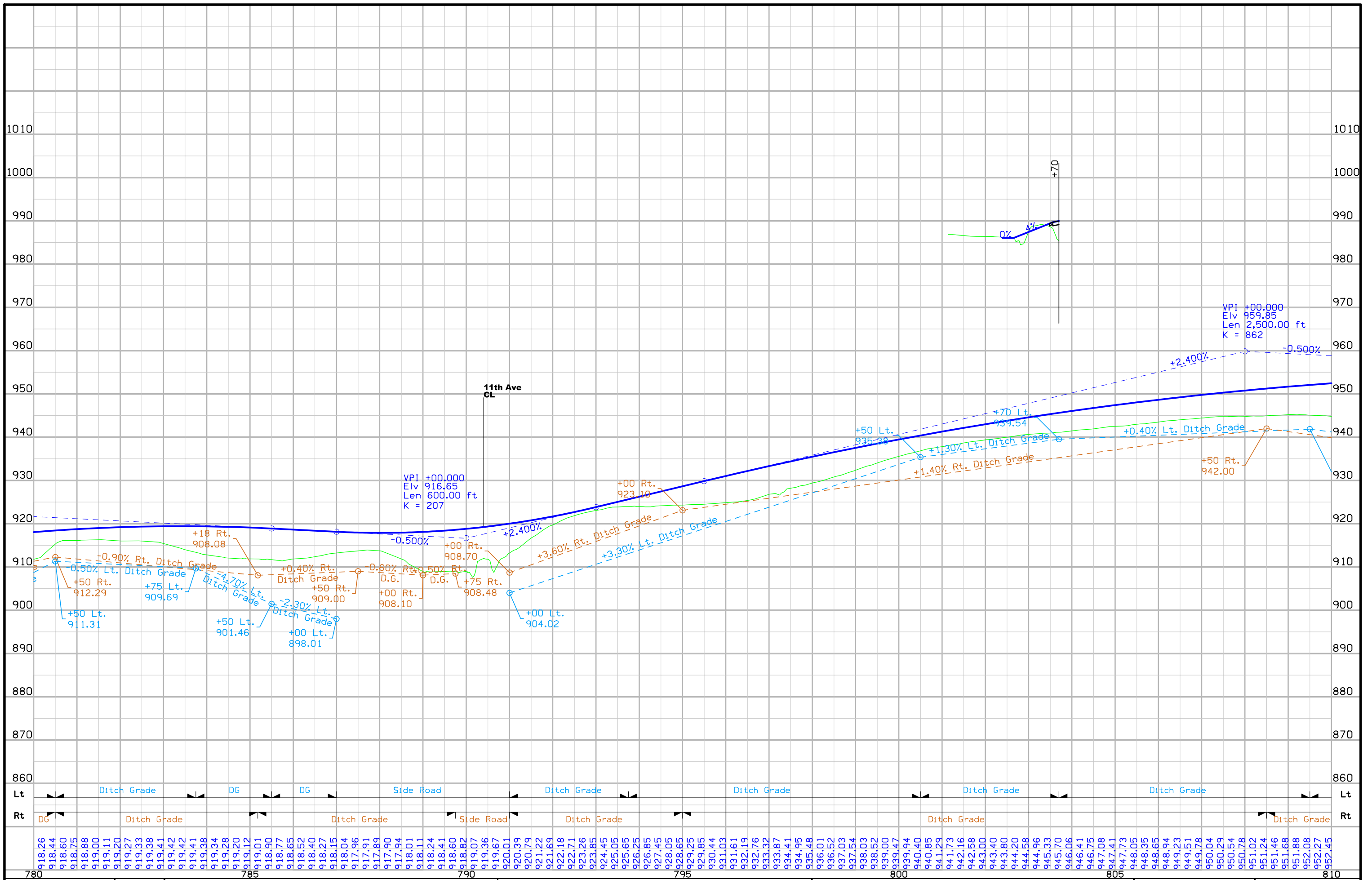
Kane TWP.  
T-83N R-12W  
SEC. 31

Kane TWP.  
T-83N R-12W  
SEC. 32



U.S. Highway 30





FILE NO.	ENGLISH	DESIGN TEAM	<b>Flattery\Bell</b>	BENTON COUNTY	PROJECT NUMBER	<b>NHS-030-6(87)--19-06</b>	SHEET NUMBER	<b>D.9</b>
----------	---------	-------------	----------------------	---------------	----------------	-----------------------------	--------------	------------

Kane TWP.  
T-83N R-12W  
SEC. 29



Sta. 816+25.00 (PHASE 2)  
Extend 36" x 208' RCP  
with 36" x 126' RCP  
F.L. = Lt. 932.95  
Rt. 932.18

Sta. 816+56  
4' x 5' x 40' w/ EXTS RCB  
D.A. = 22 Ac - GR  
Remove

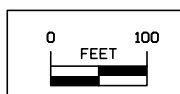
Sta. 816+25.00 (PHASE 1)  
Install 36" x 208' RCP  
F.L. = Lt. 932.23  
Rt. 930.94

POT Sta. 817+01.28 (ML030)  
= POT Sta. 11817+02.31 (SR11THAVEDR)

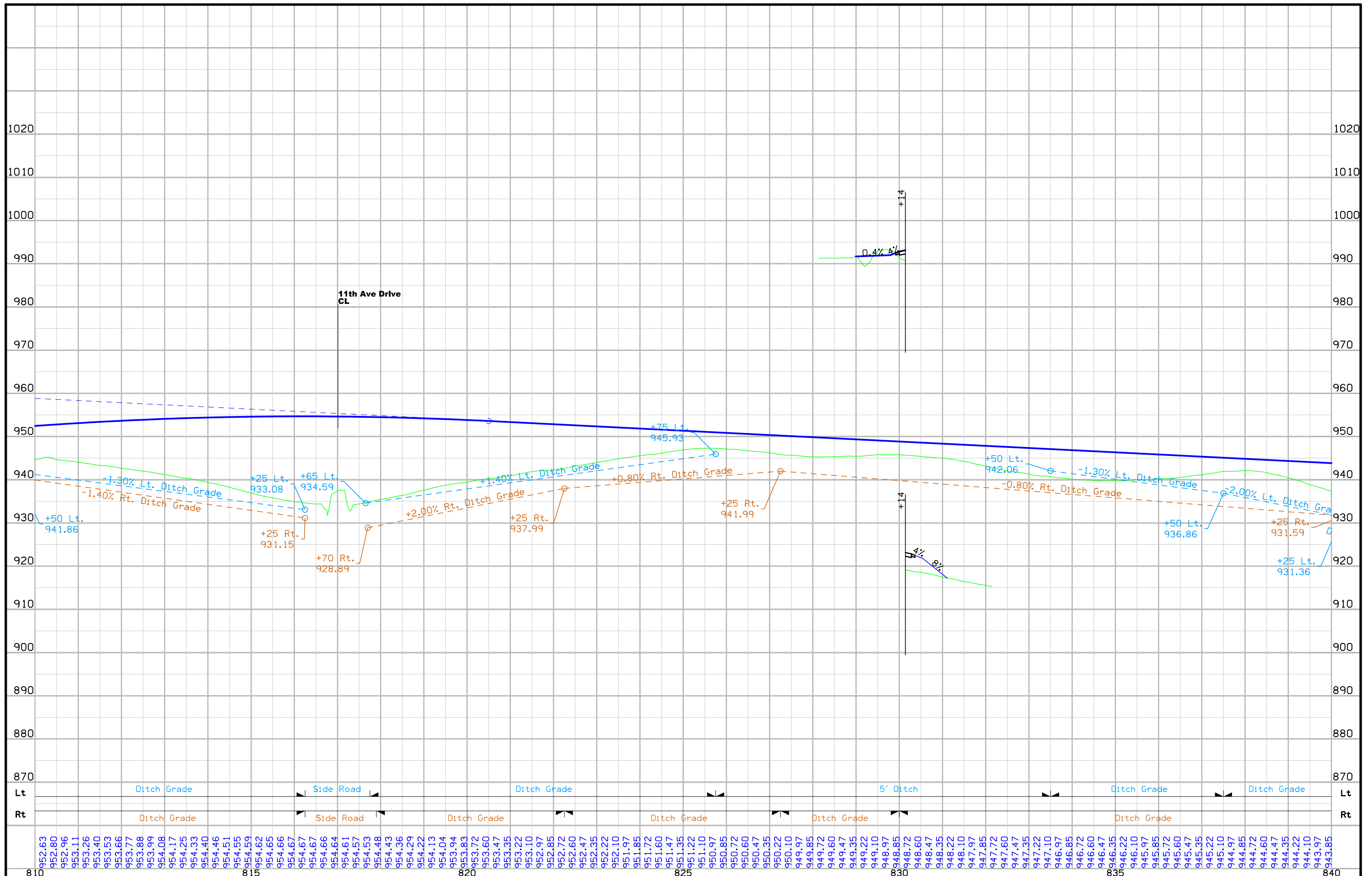
18" x 45.7'  
C.M.P.  
Remove

Sta. 831+50.00  
Install  
F.L. = Lt.  
Rt.

Kane TWP.  
T-83N R-12W  
SEC. 32



U.S. Highway 30



FILE NO.	ENGLISH	DESIGN TEAM	BENTON COUNTY	PROJECT NUMBER	SHEET NUMBER
		<b>Flattery\Bell</b>		<b>NHS-030-6(87)--19-06</b>	<b>D.11</b>

9:07:38 AM 1/28/2016 jbuttol pw:\projectwise.dot.int.lan:PWMain\Documents\Projects\0603003092\Design\06030087D03.sht

Kane TWP.  
T-83N R-12W  
SEC. 28



Sta. 869+87.00 (PHASE 2)  
Extend 10' x 8' x 170' RCB  
with 10' x 8' x 134' RCB  
Skew = 3° Lt. Ahd.  
F.L. = Lt. 879.50  
Rt. 879.33  
Design No. XXX

Sta. 869+88  
Skew 15 AHEAD LT  
12' X 12' X 58' RCB  
D.A. = 936 Ac - GR-H  
Remove

Sta. 857+70  
3' X 2' X 61' RCB  
D.A. = 24 Ac - R  
Remove

Sta. 844+60.00 (PHASE 2)  
Extend 42" x 164' RCP  
with 42" x 104' RCP  
F.L. = Lt. 927.11  
Rt. 924.44

Sta. 843+29  
Skew 45 RT AHEAD  
3' X 3' X 83' W/ 42" RCP EXTS RCB  
D.A. = 45 Ac - GR  
Remove

Sta. 843+07.124  
18" X 43' CNP  
D.A. = 4 A - GR  
Remove

Sta. 842+00.00  
Install  
F.L. = Lt.  
Rt.

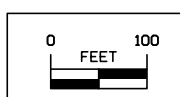
POT Sta. 843+25.43 (ML030)  
= POT Sta. 12843+25.43 (SR12THAVE)

Sta. 844+60.00 (PHASE 1)  
Install 42" x 164' RCP  
F.L. = Lt. 924.66  
Rt. 919.75

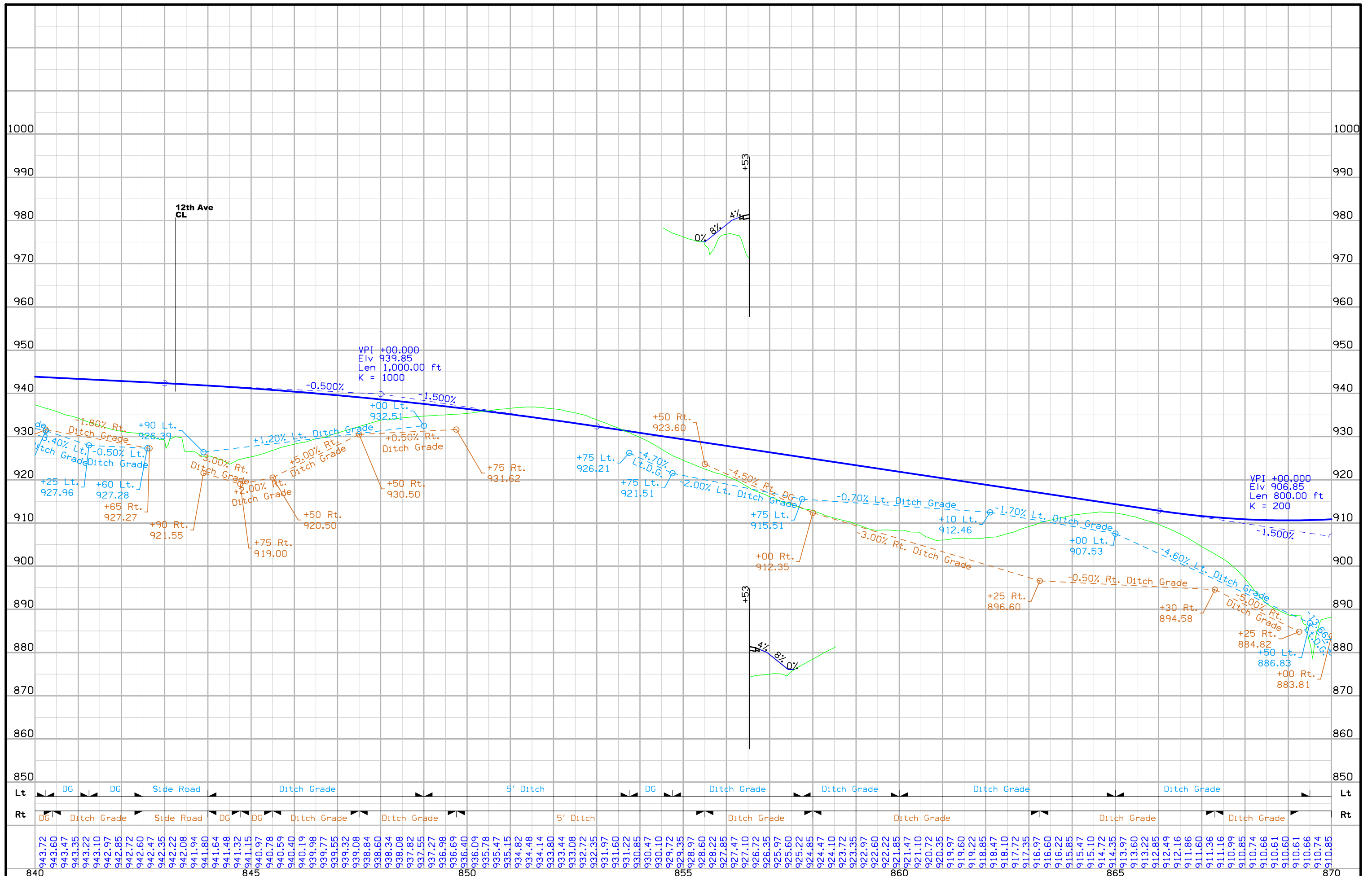
Kane TWP.  
T-83N R-12W  
SEC. 33

Sta. 869+00.00  
Install  
F.L. = Lt.  
Rt.

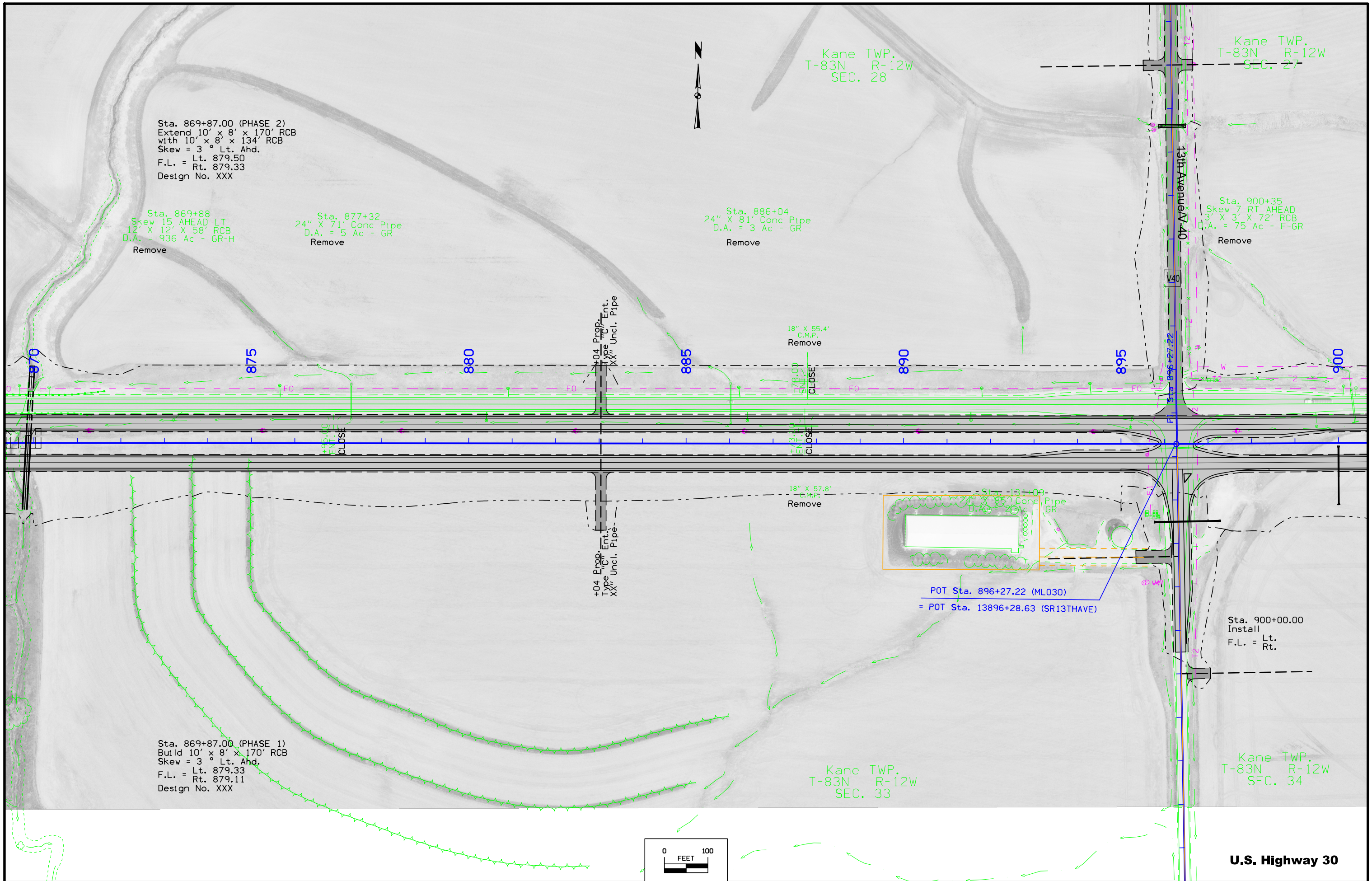
Sta. 869+87.00 (PHASE 1)  
Build 10' x 8' x 170' RCB  
Skew = 3° Lt. Ahd.  
F.L. = Lt. 879.33  
Rt. 879.11  
Design No. XXX



U.S. Highway 30



FILE NO.	ENGLISH	DESIGN TEAM	<b>Flattery\Bell</b>	BENTON COUNTY	PROJECT NUMBER	<b>NHS-030-6(87)--19-06</b>	SHEET NUMBER	<b>D.13</b>
----------	---------	-------------	----------------------	---------------	----------------	-----------------------------	--------------	-------------



Sta. 869+87.00 (PHASE 2)  
 Extend 10' x 8' x 170' RCB  
 with 10' x 8' x 134' RCB  
 Skew = 3° Lt. Ahd.  
 F.L. = Lt. 879.50  
 Rt. 879.33  
 Design No. XXX

Sta. 869+88  
 Skew 15° AHEAD LT  
 12' X 12' X 58' RCB  
 D.A. = 936 Ac - GR-H  
 Remove

Sta. 877+32  
 24" X 71' Conc Pipe  
 D.A. = 5 Ac - GR  
 Remove

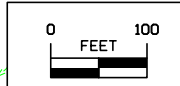
Sta. 886+04  
 24" X 81' Conc Pipe  
 D.A. = 3 Ac - GR  
 Remove

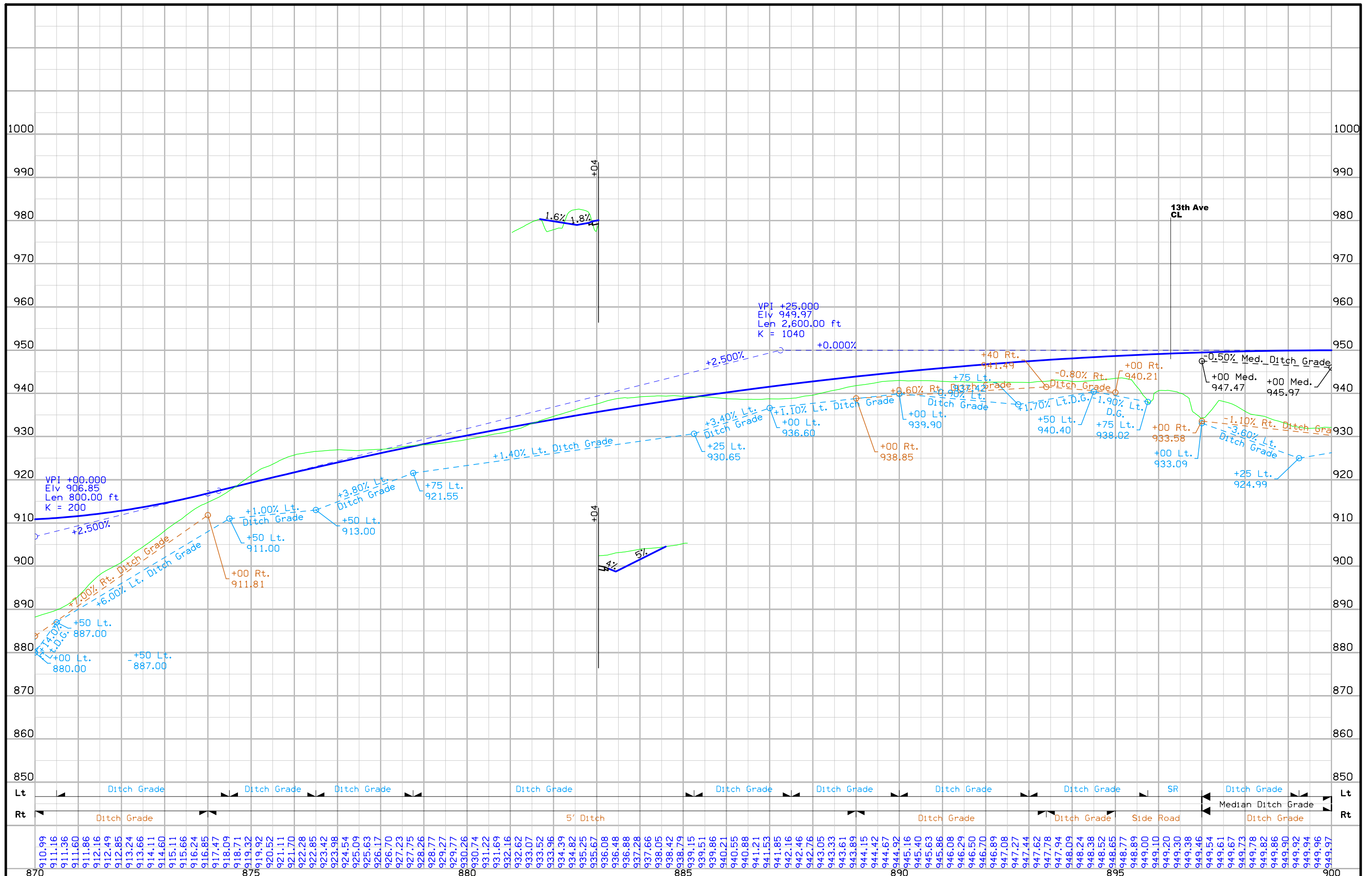
Sta. 900+35  
 Skew 7° RT AHEAD  
 3' X 3' X 72' RCB  
 D.A. = 75 Ac - F-GR  
 Remove

Sta. 869+87.00 (PHASE 1)  
 Build 10' x 8' x 170' RCB  
 Skew = 3° Lt. Ahd.  
 F.L. = Lt. 879.33  
 Rt. 879.11  
 Design No. XXX

Kane TWP.  
 T-83N R-12W  
 SEC. 33

Kane TWP.  
 T-83N R-12W  
 SEC. 34





FILE NO.	ENGLISH	DESIGN TEAM	<b>Flattery\Bell</b>	BENTON COUNTY	PROJECT NUMBER	<b>NHS-030-6(87)--19-06</b>	SHEET NUMBER	<b>D.15</b>
----------	---------	-------------	----------------------	---------------	----------------	-----------------------------	--------------	-------------

Kane TWP.  
T-83N R-12W  
SEC. 27



Sta. 900+35  
Skew 7 RT AHEAD  
3' X 3' X 72' RCB  
D.A. = 75 Ac - F-GR  
Remove

Sta. 900+75.00 (PHASE 2)  
Extend 48" x 176' RCP  
with 48" x 98' RCP  
F.L. = Lt. 927.51  
Rt. 928.41

Sta. 913+38  
2' X 2' X 62' RCB  
D.A. = 7 Ac - F-GR  
Remove

Sta. 913+50.00 (PHASE 2)  
Extend 24" x 116' RCP  
with 24" x 96' RCP  
F.L. = Lt. 938.40  
Rt. 939.13

93 Prop. Jt. Ent. Pipe  
Type RCP  
XX" Uncl. Pipe

93 Prop. Jt. Ent. Pipe  
Type RCP  
XX" Uncl. Pipe

139.00  
CLOSE  
Sta 921+02.43

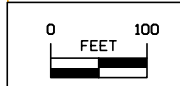
18" X 30.2'  
G.P.P.  
Remove

Sta. 900+00  
Install  
F.L. = Lt.  
Rt.

Sta. 900+75.00 (PHASE 1)  
Install 48" x 176' RCP  
F.L. = Lt. 928.41  
Rt. 929.98

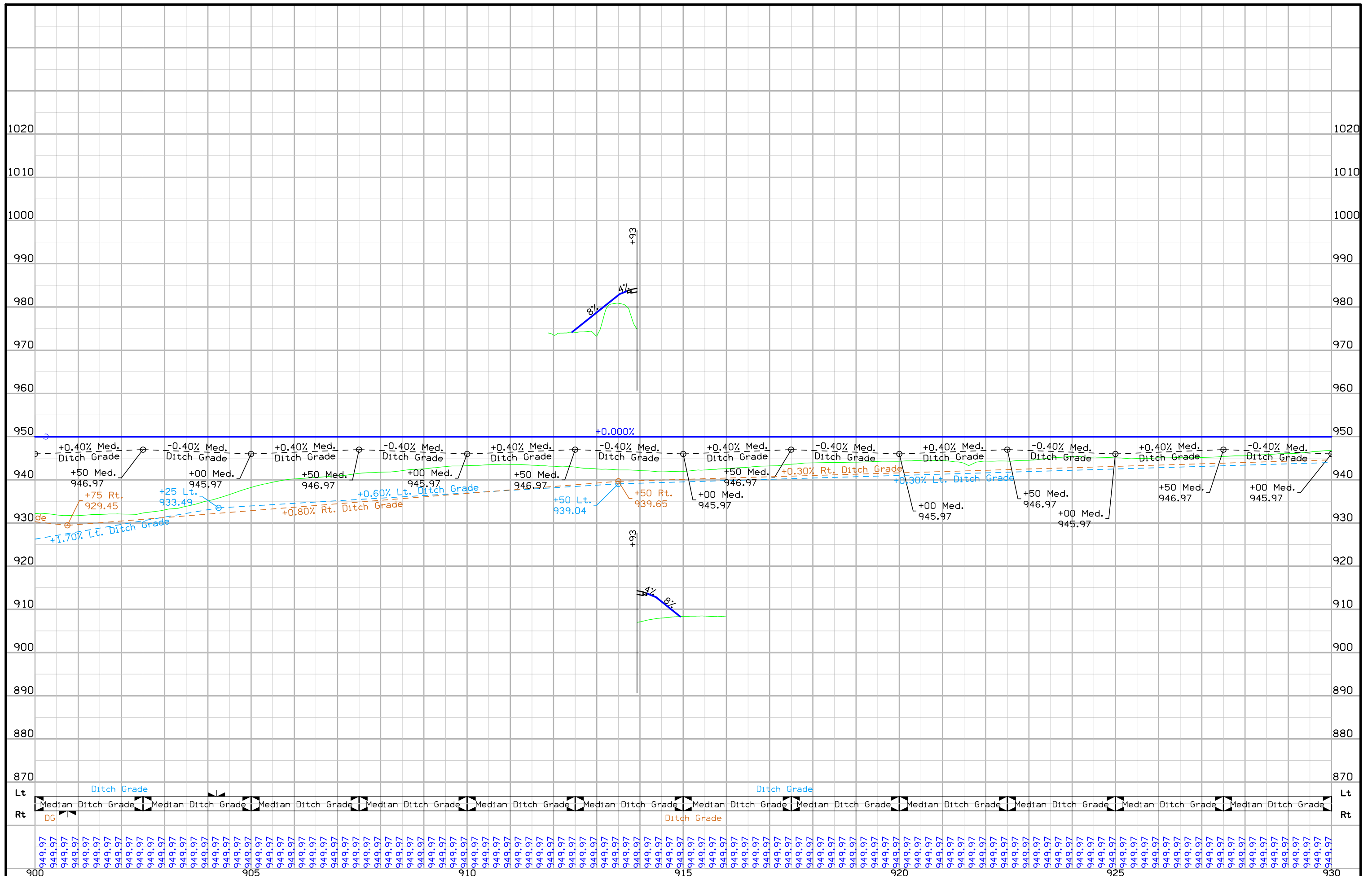
Sta. 913+50.00 (PHASE 1)  
Install 24" x 116' RCP  
F.L. = Lt. 939.13  
Rt. 940.00

Kane TWP.  
T-83N R-12W  
SEC. 34

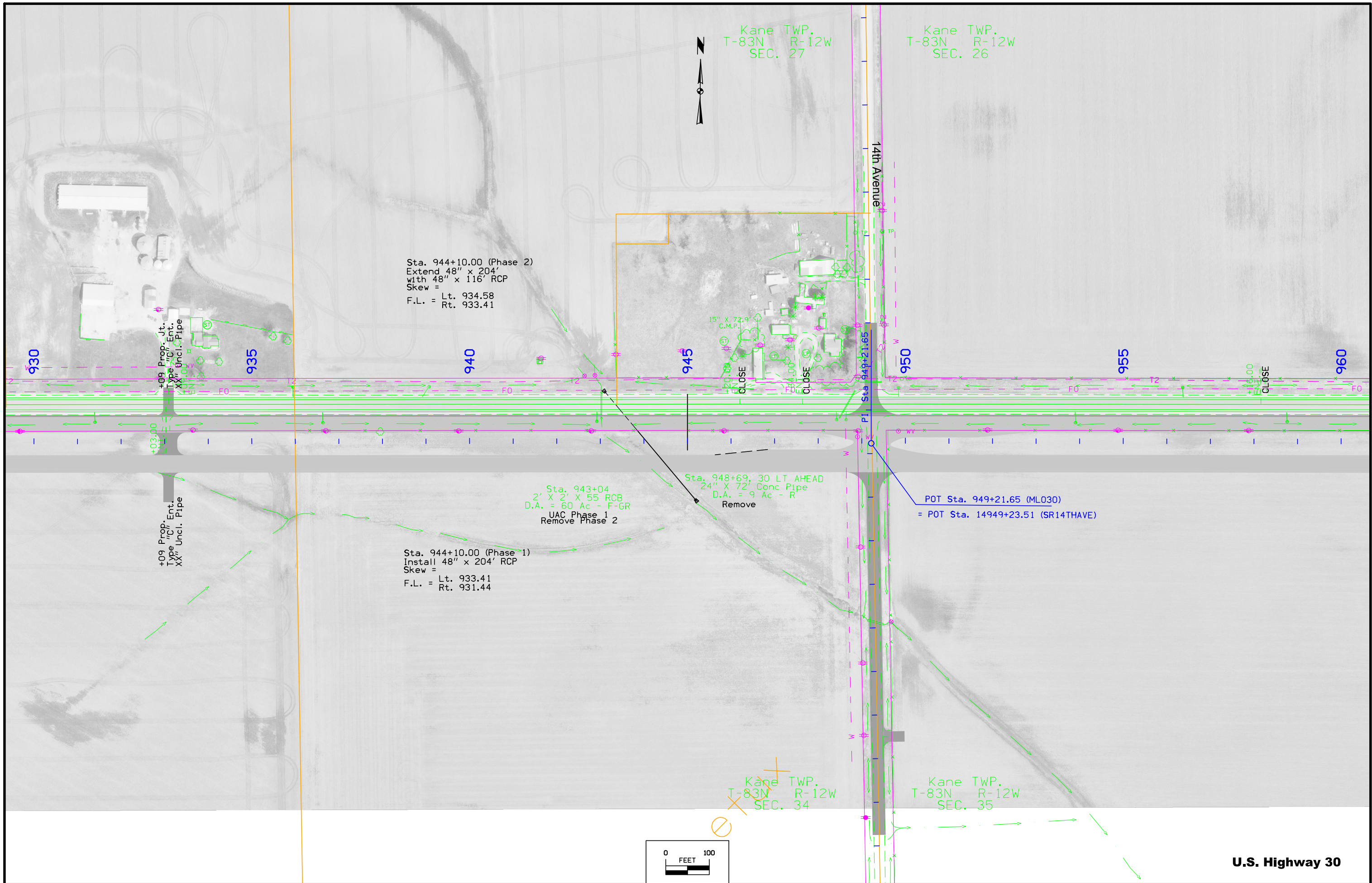


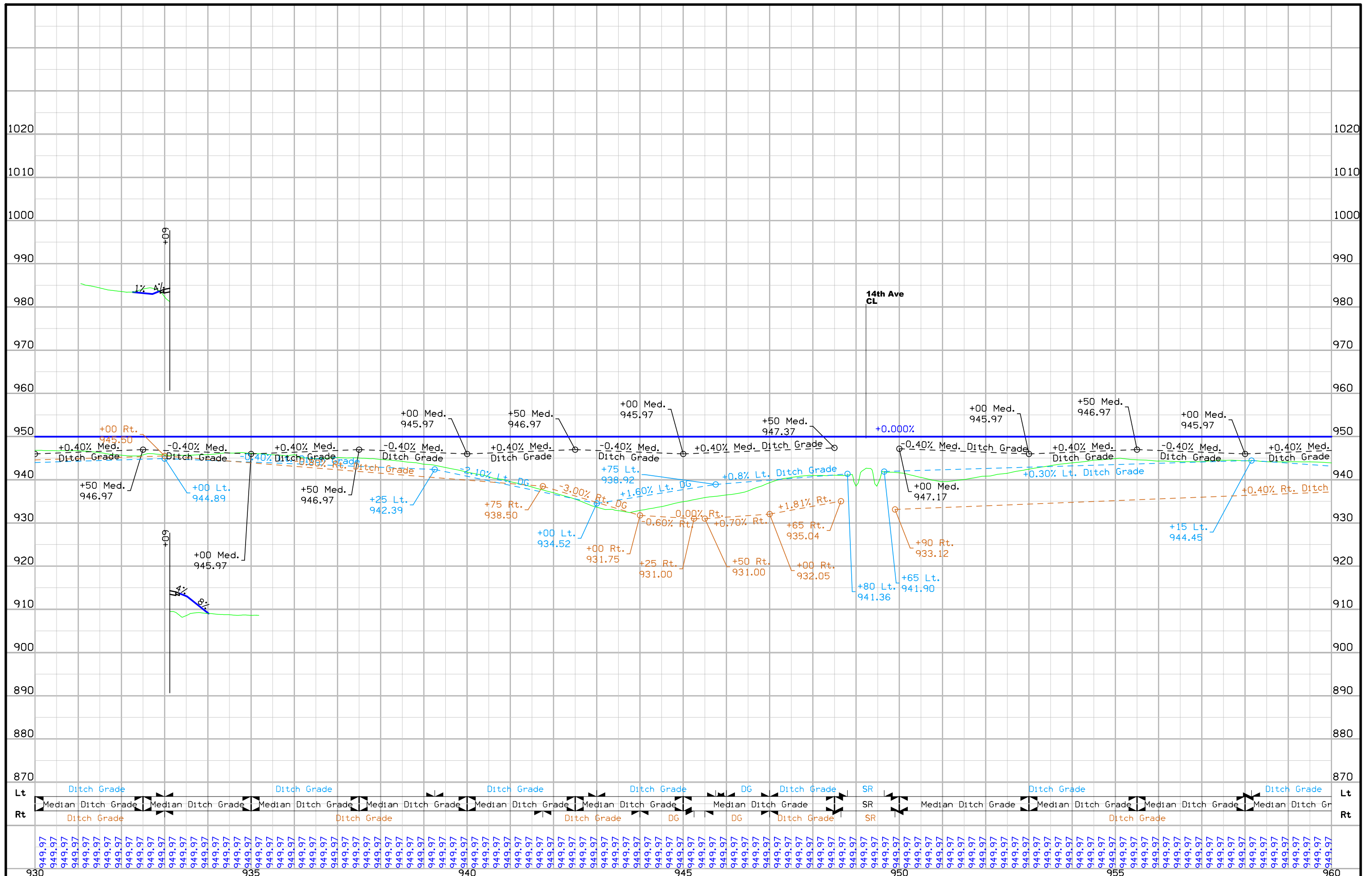
U.S. Highway 30





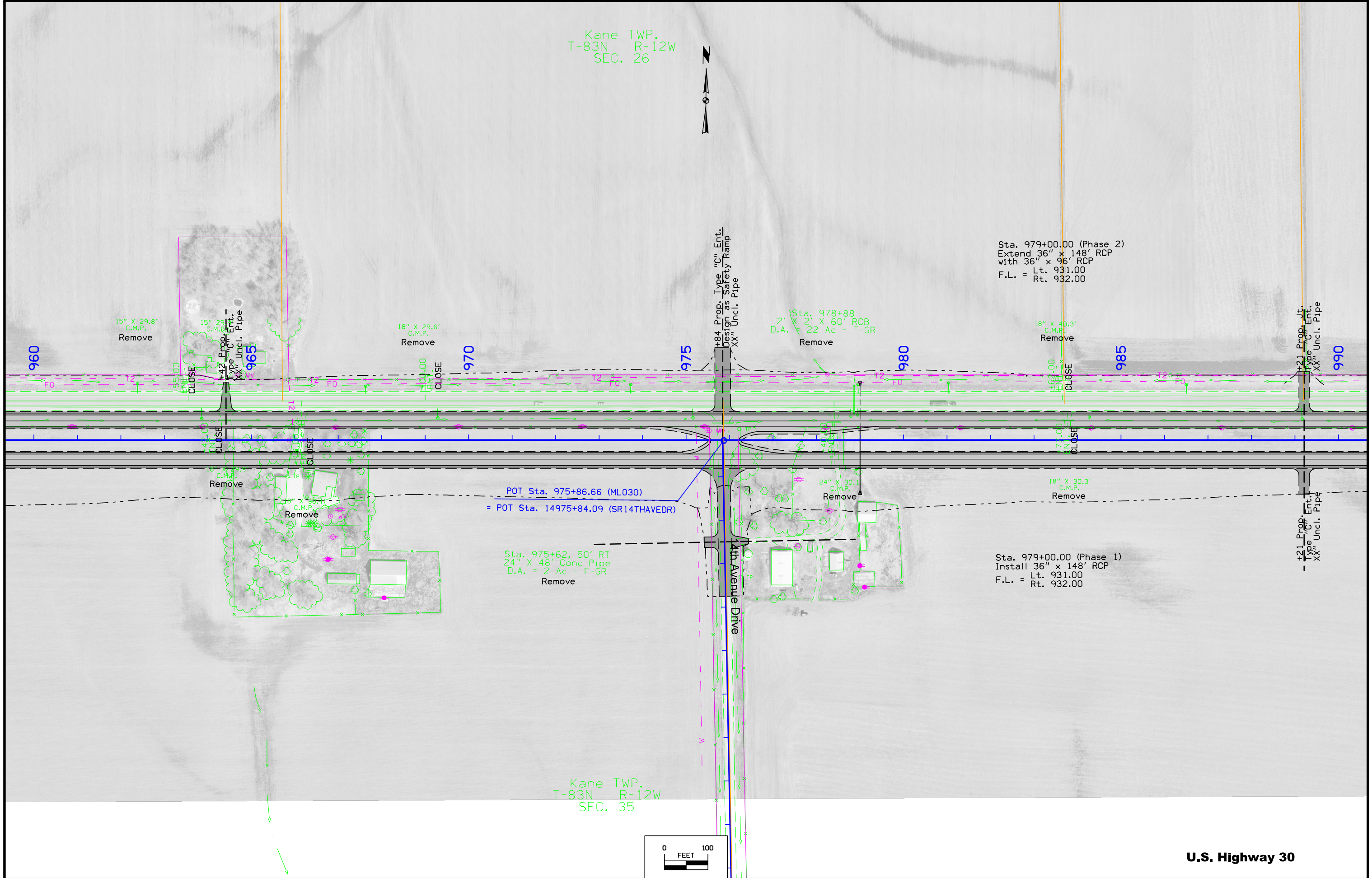
FILE NO.	ENGLISH	DESIGN TEAM	<b>Flattery\Bell</b>	BENTON COUNTY	PROJECT NUMBER	<b>NHS-030-6(87)--19-06</b>	SHEET NUMBER	<b>D.17</b>
----------	---------	-------------	----------------------	---------------	----------------	-----------------------------	--------------	-------------





FILE NO.	ENGLISH	DESIGN TEAM	<b>Flattery\Bell</b>	BENTON COUNTY	PROJECT NUMBER	<b>NHS-030-6(87)--19-06</b>	SHEET NUMBER	<b>D.19</b>
----------	---------	-------------	----------------------	---------------	----------------	-----------------------------	--------------	-------------

Kane TWP.  
T-83N R-12W  
SEC. 26



Sta. 979+00.00 (Phase 2)  
Extend 36" x 148' RCP  
with 36" x 96' RCP  
Lt. 931.00  
Rt. 932.00

Sta. 978+88  
2' X 2' X 60' RCB  
D.A. = 22 Ac - F-GR  
Remove

18" X 29.6'  
C.M.P.  
Remove

15" X 29.8'  
C.M.P.  
Remove

18" X 40.3'  
C.M.P.  
Remove

POT Sta. 975+86.66 (ML030)  
= POT Sta. 14975+84.09 (SR14THAVEDR)

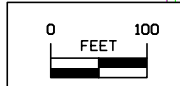
Sta. 975+62, 50' RT  
24" X 48' Conc Pipe  
D.A. = 2 Ac - F-GR  
Remove

24" X 30.1'  
C.M.P.  
Remove

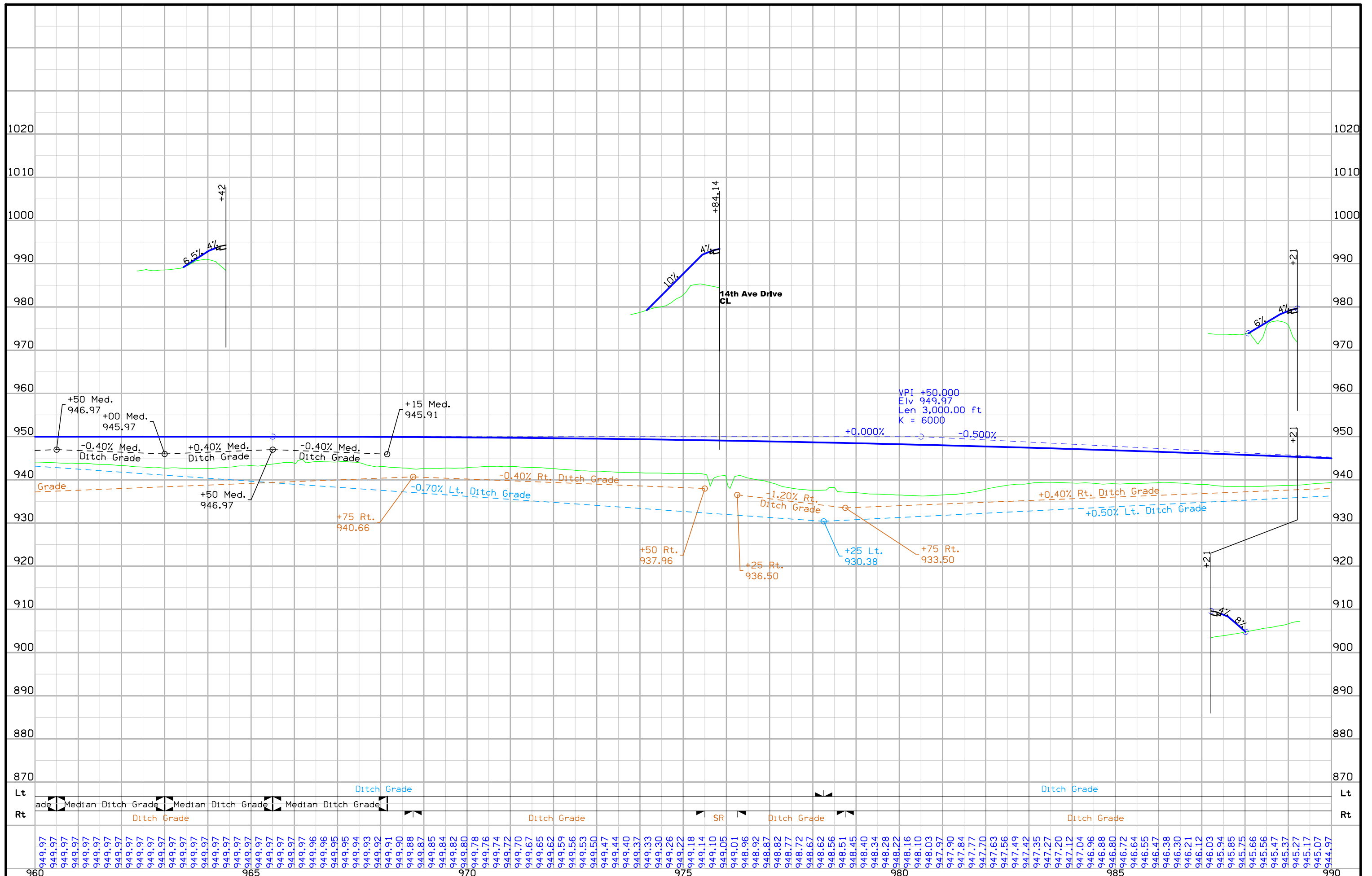
18" X 30.3'  
C.M.P.  
Remove

Sta. 979+00.00 (Phase 1)  
Install 36" x 148' RCP  
Lt. 931.00  
Rt. 932.00

Kane TWP.  
T-83N R-12W  
SEC. 35



U.S. Highway 30



Kane TWP.  
T-83N R-12W  
SEC. 26

Kane TWP.  
T-83N R-12W  
SEC. 25

Kane TWP.  
T-83N R-12W  
SEC. 35

Kane TWP.  
T-83N R-12W  
SEC. 36



15th Avenue N-42

Sta. 1008+40.00 (Phase 2)  
Extend 30" x 116' RCP  
with 30" x 86' RCP  
F.L. = Lt. 928.00  
Rt. 928.85

Sta. 1003+75.00 (Phase 2)  
Extend 36" x 124' RCP  
with 36" x 114' RCP  
F.L. = Lt. 925.59  
Rt. 926.12

Sta. 1008+39  
2' X 2' X 52' RCB  
D.A. = 14 Ac - GR  
Remove Phase 2

Sta. 1003+61, w/ 30" RCP EXTS  
2' X 2' X 68' RCB  
D.A. = 26 Ac - GR-R  
Remove Phase 2

15" X 30.1'  
C.M.P.  
Remove

POT Sta. 1002+44.97 (ML030)  
= POT Sta. 151002+44.97 (SRV42)

18" X 29.5'  
C.M.P.  
Remove

POT Sta. 1002+53.75 (ML030)  
= POT Sta. 151002+54.88 (SR15THAVE)

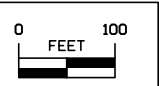
Sta. 1002+33, 85' RT  
24" X 49' RCP  
D.A. = 15 Ac - GR  
Remove

Sta. 1003+75.00 (Phase 1)  
Install 36" x 124' RCP  
F.L. = Lt. 926.12  
Rt. 926.70

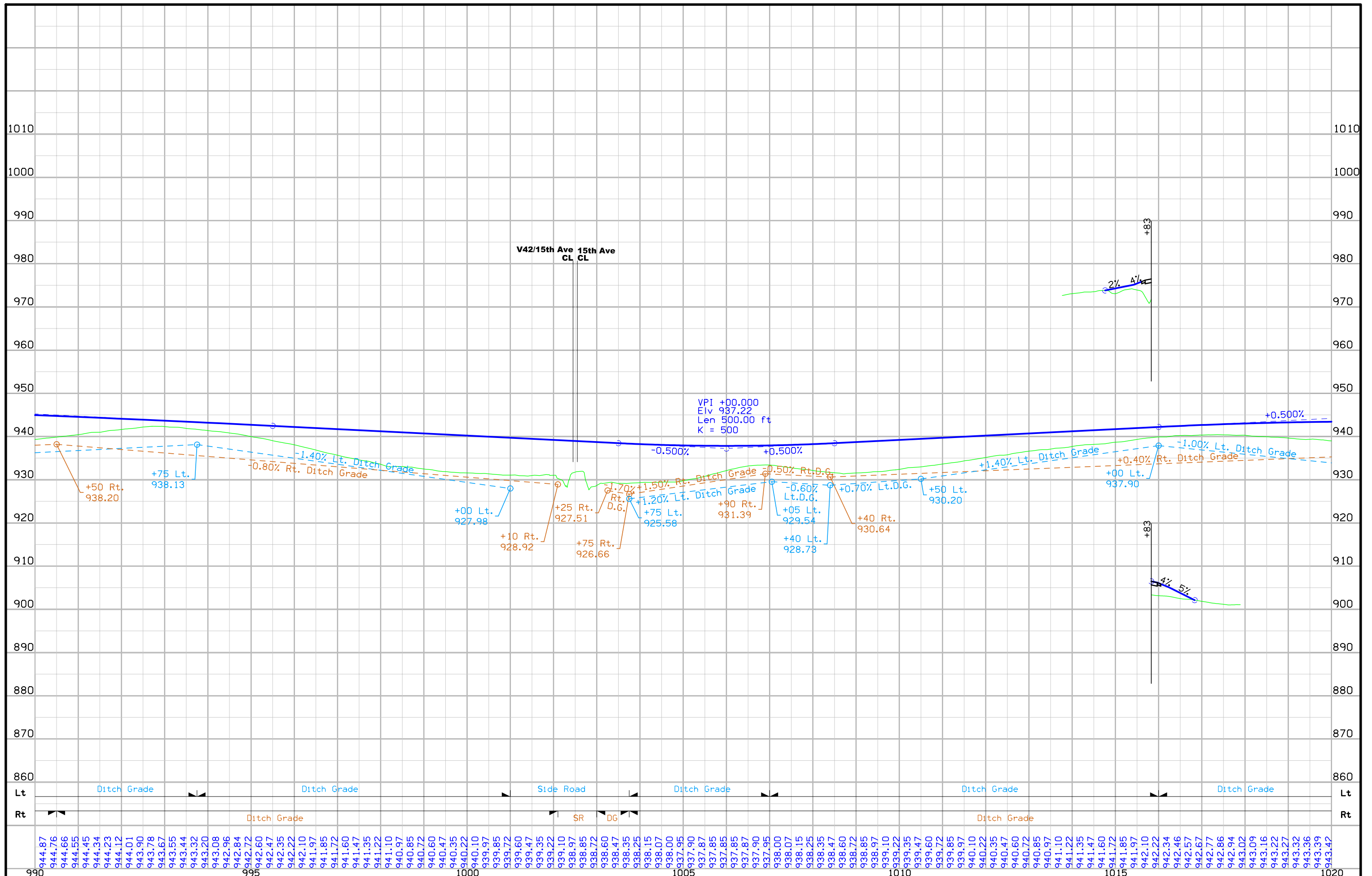
Sta. 1008+40.00 (Phase 1)  
Install 30" x 116' RCP  
F.L. = Lt. 928.85  
Rt. 930.00

15" X 30.1'  
C.M.P.  
Remove

-83 Prop. Jt.  
Type RCP Ent.  
XX" Uncl. Pipe



U.S. Highway 30



FILE NO.	ENGLISH	DESIGN TEAM	Flattery\Bell	BENTON COUNTY	PROJECT NUMBER	NHS-030-6(87)--19-06	SHEET NUMBER	D.23
----------	---------	-------------	---------------	---------------	----------------	----------------------	--------------	------

Kane TWP.  
T-83N R-12W  
SEC. 25



Sta. 1033+20.00 (Phase 2)  
Extend 30" x 116' RCP  
with 30" x 98' RCP  
F.L. = Lt. 926.70  
Rt. 927.76

Sta. 1033+22  
2' X 2' X 56' RCB  
D.A. = 11 Ac - GR  
Remove (Phase 2)

Sta. 1050+00.00 (Phase 2)  
Extend 30" x 106' RCP  
with 30" x 96' RCP  
F.L. = Lt. 919.48  
Rt. 920.85

Sta. 1049+89, w/30" RCP EXT  
2' X 3' X 49' RCB  
D.A. = 18 Ac - R  
Remove (Phase 2)

Sta. 1033+20.00 (Phase 1)  
Install 30" x 116' RCP  
F.L. = Lt. 927.76  
Rt. 929.00

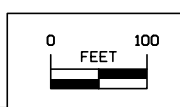
Sta. 1050+00.00 (Phase 1)  
Install 30" x 106' RCP  
F.L. = Lt. 920.85  
Rt. 922.38

+15.00 Prop. (Phase 1)  
Type M Dike  
Elev. 924.85

8" X 58.2'  
C.M.P.  
Remove

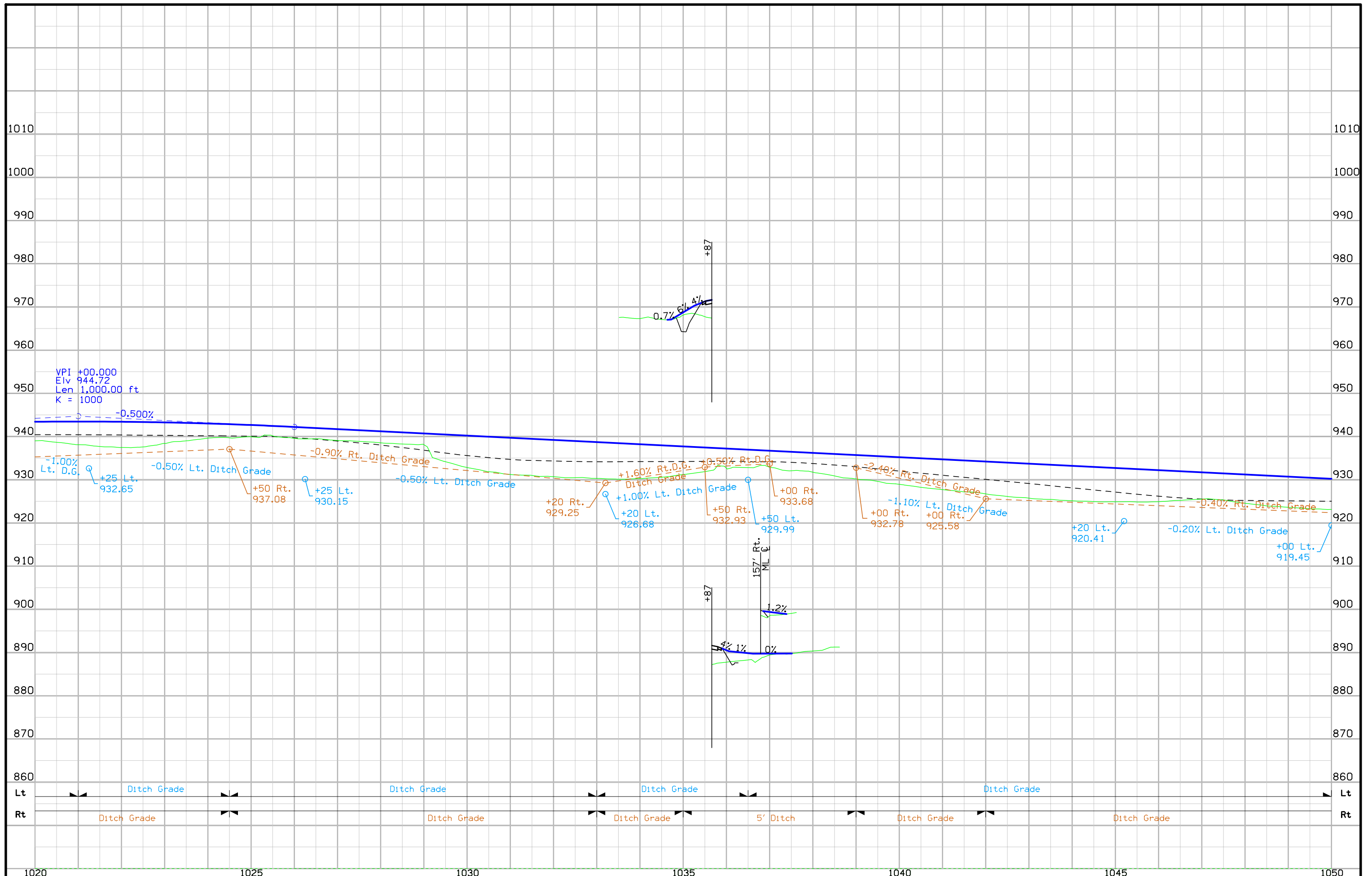
+87 Prop. Ent.  
Type "C" Ent.

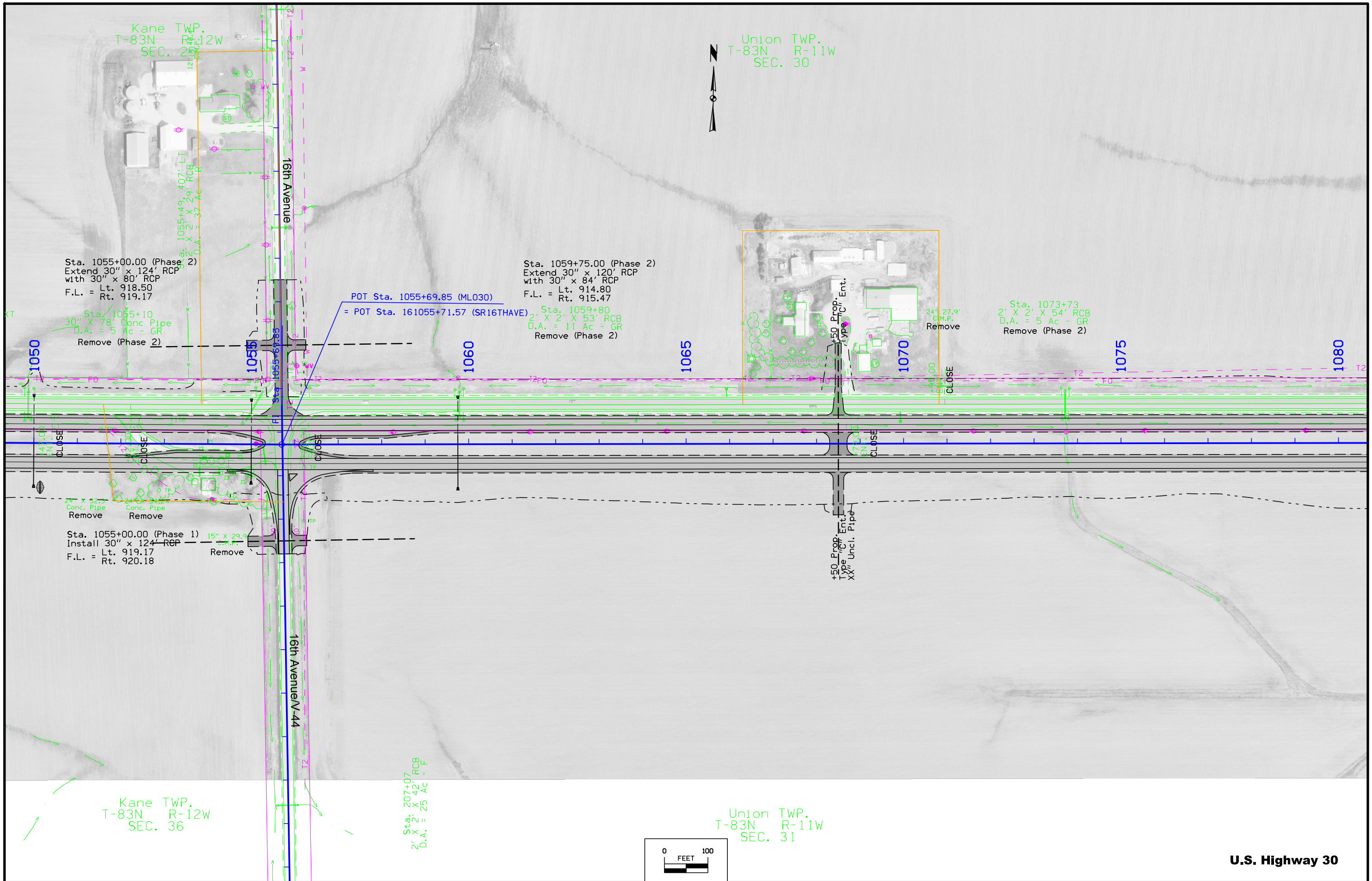
Kane TWP.  
T-83N R-12W  
SEC. 36



U.S. Highway 30







Kane TWP.  
T-83N R-12W  
SEC. 26

Union TWP.  
T-83N R-11W  
SEC. 30

Sta. 1055+00.00 (Phase 2)  
Extend 30" x 124' RCP  
with 30" x 80' RCP  
F.L. = Lt. 918.50  
Rt. 919.17

Sta. 1059+75.00 (Phase 2)  
Extend 30" x 120' RCP  
with 30" x 84' RCP  
F.L. = Lt. 914.80  
Rt. 915.47

Sta. 1073+73  
2' X 2' X 54' RCB  
D.A. = 5 Ac - GR  
Remove (Phase 2)

Sta. 1055+10  
30" X 78' Conc Pipe  
D.A. = 5 Ac - GR  
Remove (Phase 2)

POT Sta. 1055+69.85 (ML030)  
= POT Sta. 161055+71.57 (SR16THAVE)

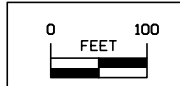
Sta. 1059+80  
2' X 2' X 53' RCB  
D.A. = 11 Ac - GR  
Remove (Phase 2)

Sta. 1055+00.00 (Phase 1)  
Install 30" x 124' RCP  
F.L. = Lt. 919.17  
Rt. 920.18

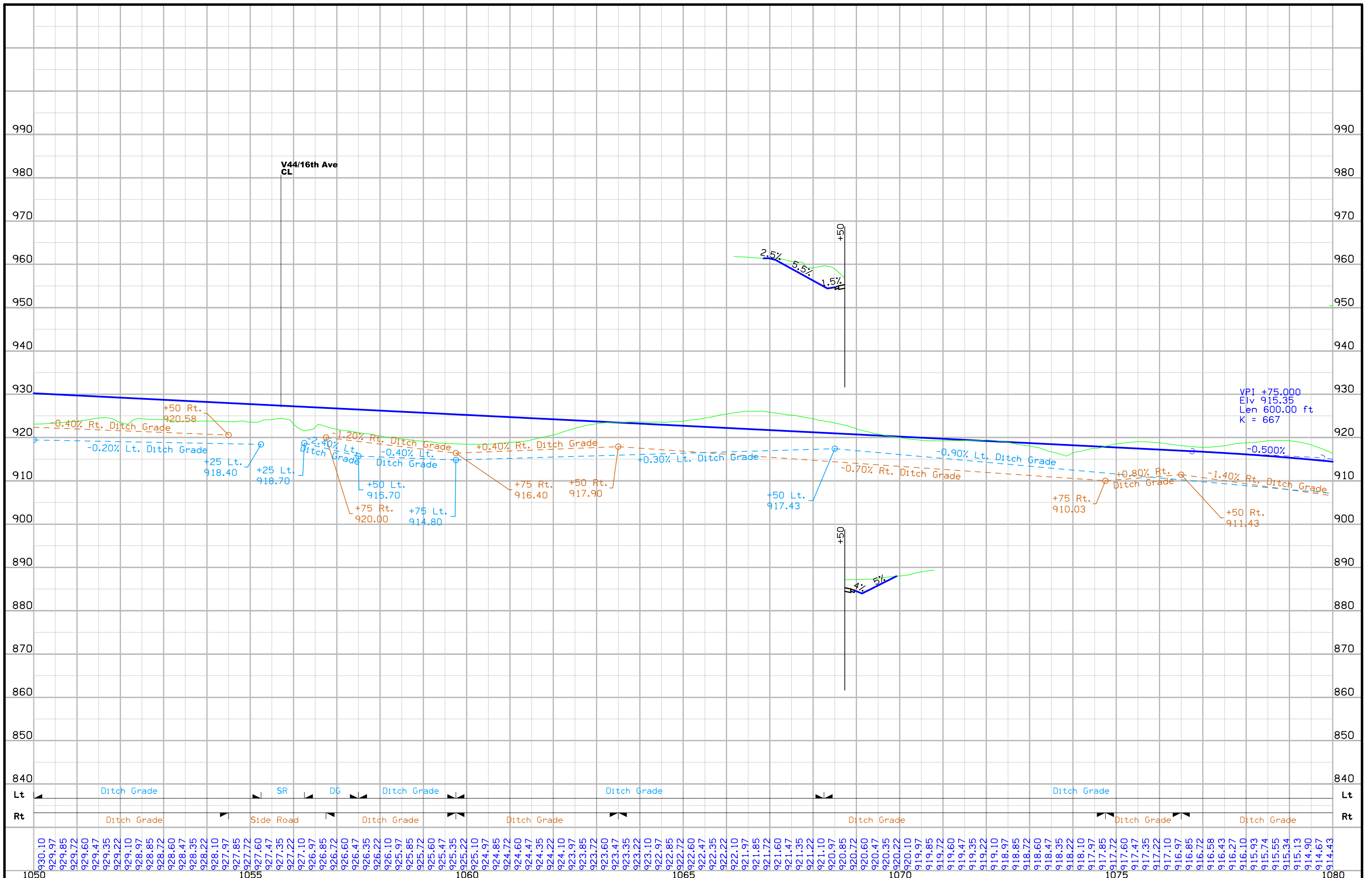
Kane TWP.  
T-83N R-12W  
SEC. 36

Union TWP.  
T-83N R-11W  
SEC. 31

Sta. 207+07  
2' X 2' X 42' RCB  
D.A. = 25 Ac - F



**U.S. Highway 30**



FILE NO.	ENGLISH	DESIGN TEAM	<b>Flattery\Bell</b>	BENTON COUNTY	PROJECT NUMBER	<b>NHS-030-6(87)--19-06</b>	SHEET NUMBER	<b>D.27</b>
----------	---------	-------------	----------------------	---------------	----------------	-----------------------------	--------------	-------------

Union TWP.  
T-83N R-11W  
SEC. 30



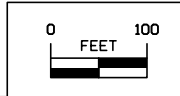
Sta. 1090+53.00 (Phase 2)  
Extend 72" x 180' RCP  
with 72" x 122' RCP  
Skew ????? LtAhd  
F.L. = Lt. 914.80  
Rt. 915.47  
Sta. 1090+79  
Skew 10 LT AHEAD  
6' X 8' X 70' RCB  
D.A. = 192 Ac - GR-R  
Remove (Phase 2)

Sta. 1101+100.00 (Phase 2)  
Extend 24" x 80' RCP  
with 24" x 98' RCP  
F.L. = Lt. 906.30  
Rt. 907.80  
Sta. 1100+92  
2' X 2' X 59' RCB  
D.A. = 5 Ac - R  
Remove (Phase 2)

Sta. 1090+53.00 (Phase 1)  
Install 72" x 180' RCP  
Skew ????? LtAhd  
F.L. = Lt. 914.80  
Rt. 915.47

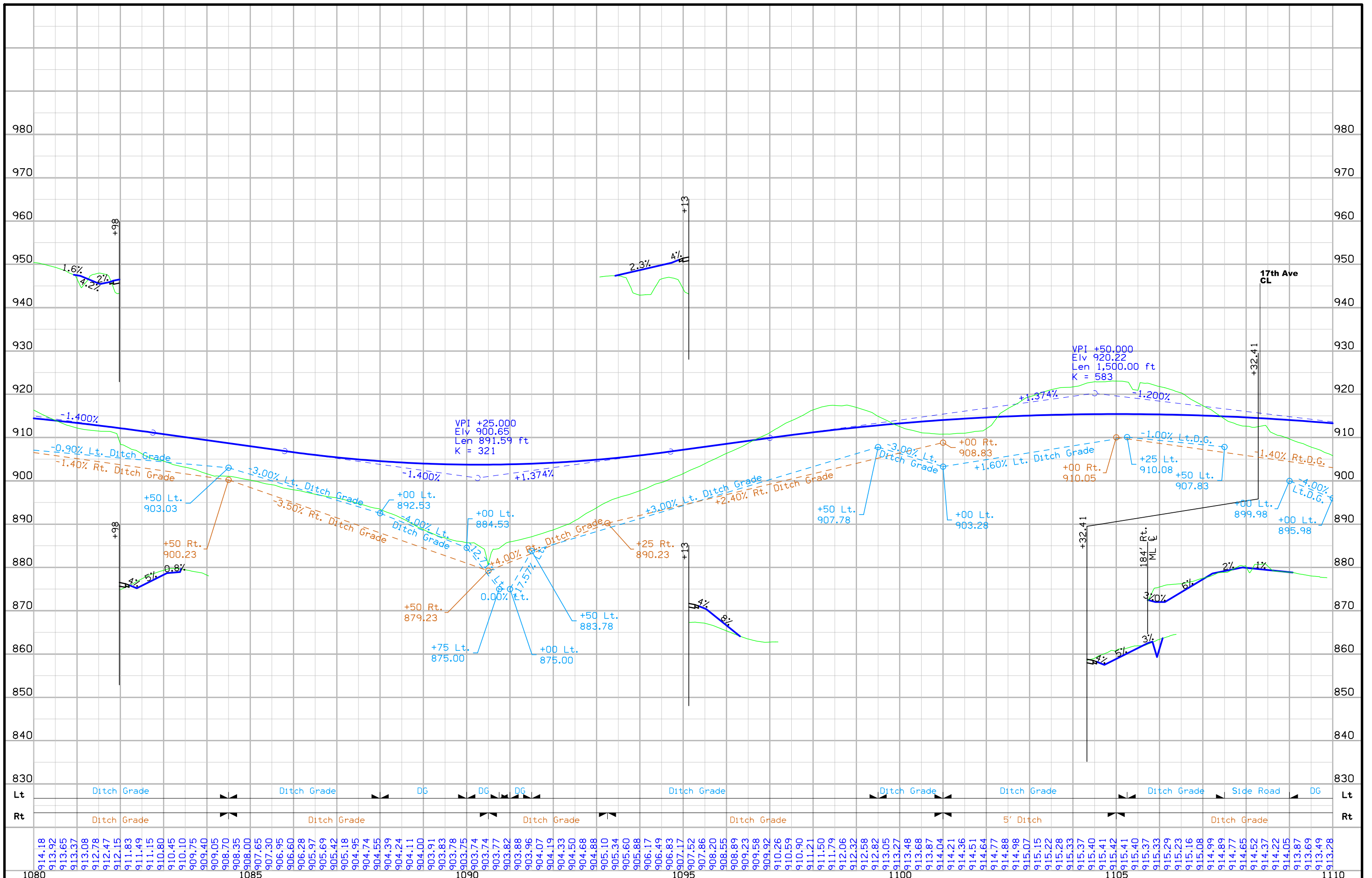
Sta. 1101+100.00 (Phase 1)  
Install 24" x 80' RCP  
F.L. = Lt. 907.80  
Rt. 909.04

POT Sta. 1108+32.40 (ML030)  
= POT Sta. 171108+32.41 (SR17THAVE)



Union TWP.  
T-83N R-11W  
SEC. 31

U.S. Highway 30



Union TWP.  
T-83N R-11W  
SEC. 29



Sta. 1114+75 (Phase 2)  
Install 42"x104' RCP w/Outlet Apron  
F.L. = Lt. 886.70  
Rt. 890.91

Sta. 1125+75 (Phase 2)  
Remove 30"x48' RCP & Relay Outlet Apron  
F.L. = Lt. 888.37  
Rt. 887.53

Sta. 1114+77  
3' X 3' X 63' RCB  
D.A. = 32 Ac - R  
(Remove PHase 2)

Sta. 1125+67  
2' X 2' X 61' RCB  
D.A. = 10 Ac - R  
Remove (Phase 2)

+56 Prop. Type "C" Ent.  
Design as Safety Ramp  
XX" Uncl. Pipe

+44 Prop. Jt.  
Type "C" Ent.  
XX" Uncl. Pipe

+44 Prop. "C" Ent.  
XX" Uncl. Pipe

Sta. 1114+50, 44 Rt. (Phase 1)  
Install 24"x??' RCP w/Aprons  
F.L. = Lt. ????.??  
Rt. ????.??

Sta. 1114+75 (Phase 1)  
Install 42"x138' RCP w/Inlet Apron  
F.L. = Lt. 890.91  
Rt. 896.40

1125+75 (Phase 2)  
Prop. Type "M" Dike  
Elev. =892.35

Sta. 1125+75 (Phase 1)  
Install 30"x138' RCP w/Aprons  
+ 30"x90' Jacked RCP  
F.L. = Lt. 888.37  
Rt. 889.72

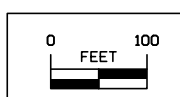
Sta. 1133+00, 44 Rt. (Phase 1)  
Install 24"x70' RCP w/Aprons  
F.L. = Lt. 881.91  
Rt. 880.87

Sta. 1134+34, 40' RT  
24" X 48' Conc Pipe  
D.A. = 4 Ac - R  
Remove

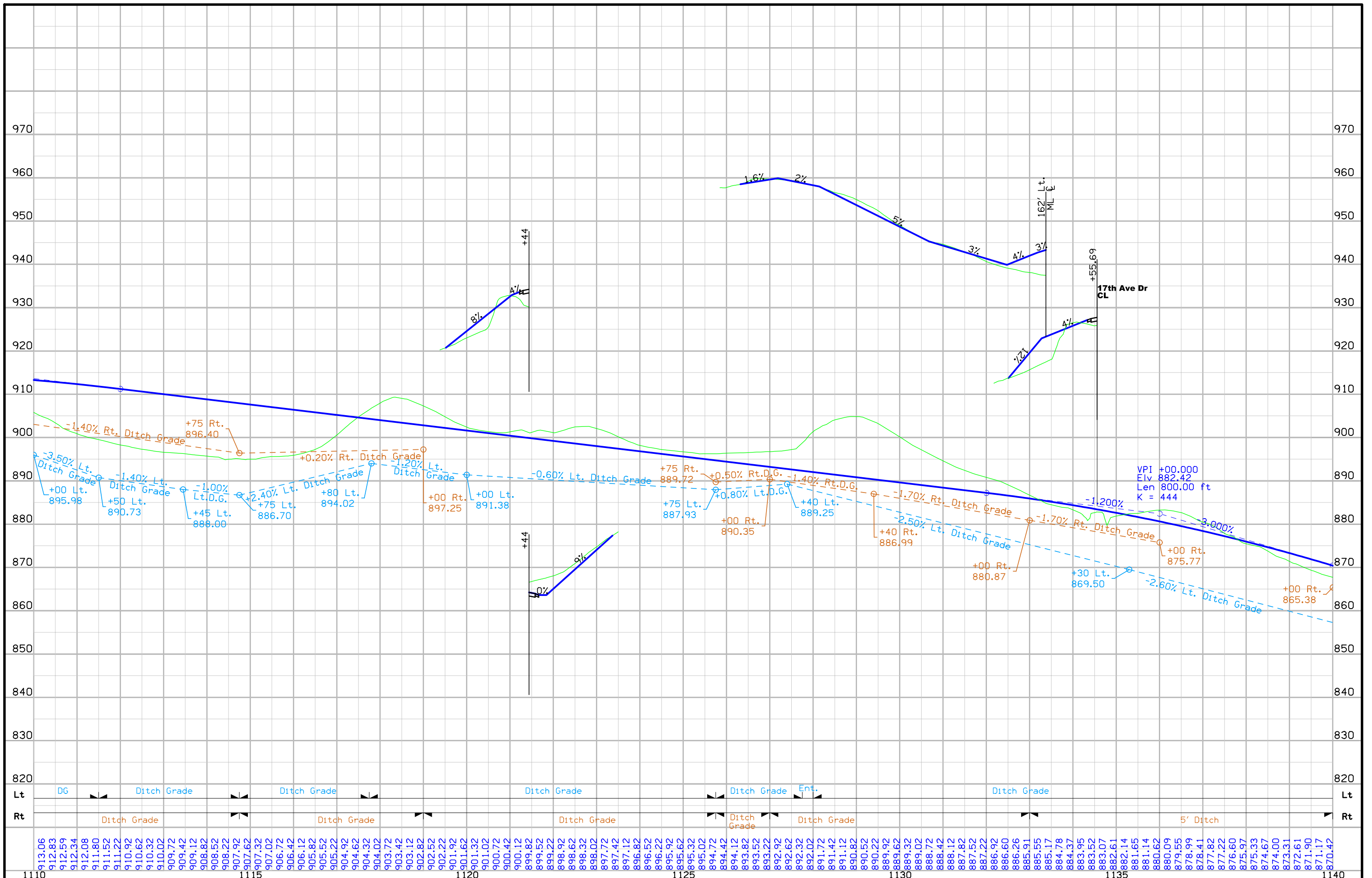
24" X 30.0'  
C.M.P.  
Remove

POT Sta. 1134+55.69 (ML030)  
= POT Sta. 171134+55.69 (SR17THAVEDDR)

Union TWP.  
T-83N R-11W  
SEC. 32



U.S. Highway 30



FILE NO.	ENGLISH	DESIGN TEAM	<b>Flattery\Bell</b>	BENTON COUNTY	PROJECT NUMBER	<b>NHS-030-6(87)--19-06</b>	SHEET NUMBER	<b>D.31</b>
----------	---------	-------------	----------------------	---------------	----------------	-----------------------------	--------------	-------------

Union TWP.  
T-83N R-11W  
SEC. 29

Union TWP.  
T-83N R-11W  
SEC. 28



STA 1144+98.15  
28' X 210' CONTINUOUS I-BEAM BRIDGE  
30° SKEW  
DA = 50 SO MILES  
Remove (Phase 2)

Sta. 1160+00, 44 Lt. (Phase 2)  
Install 24"x??' RCP w/Aprons  
F.L. = Lt. ????.??  
Rt. ????.??

Sta. 1162+00, 44 Lt. (Phase 2)  
Install 24"x??' RCP w/Aprons  
F.L. = Lt. ????.??  
Rt. ????.??

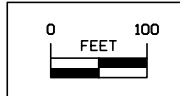
Build  
Sta. 1145+99.24  
Dual 243'-0" x 40'-0" PPCB Bridge

POT Sta. 1160+93.41 (ML030)  
= POT Sta. 181160+93.58 (SR18THAVE)

+93 Prop. Type "C" Ent.  
Design as Safety Ramp  
XX" Uncl. Pipe

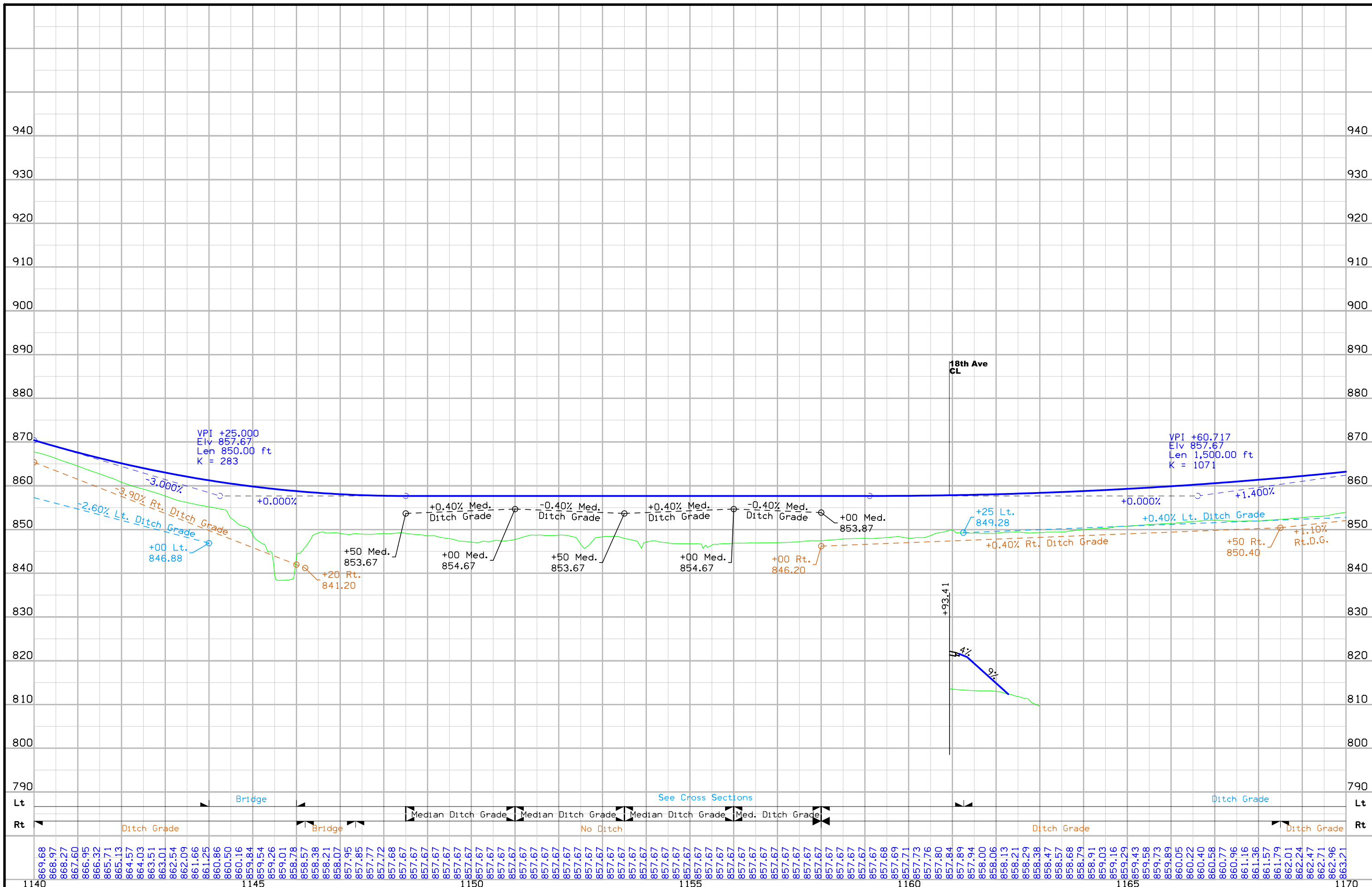
Union TWP.  
T-83N R-11W  
SEC. 32

Union TWP.  
T-83N R-11W  
SEC. 33



**U.S. Highway 30**





FILE NO.	ENGLISH	DESIGN TEAM	BENTON COUNTY	PROJECT NUMBER	SHEET NUMBER
		Flattery\Bell		NHS-030-6(87)--19-06	D.33

Union TWP.  
T-83N R-11W  
SEC. 28



Sta. 1175+00, 44 Lt. (Phase 2)  
Install 24"x??' RCP w/Aprons  
F.L. = Lt. ????.??  
Rt. ????.??

Sta. 1185+00, 44 Lt. (Phase 2)  
Install 24"x??' RCP w/Aprons  
F.L. = Lt. ????.??  
Rt. ????.??

Sta. 1195+00, 44 Lt. (Phase 2)  
Install 24"x??' RCP w/Aprons  
F.L. = Lt. ????.??  
Rt. ????.??

1194+85 (Phase 2)  
Prop. Type "M" Dike  
Elev. = ????.??

1184+85 (Phase 2)  
Prop. Type "M" Dike  
Elev. = ????.??

1170

1175

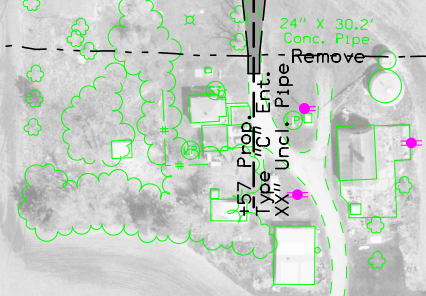
1180

1185

1190

1195

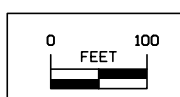
1200



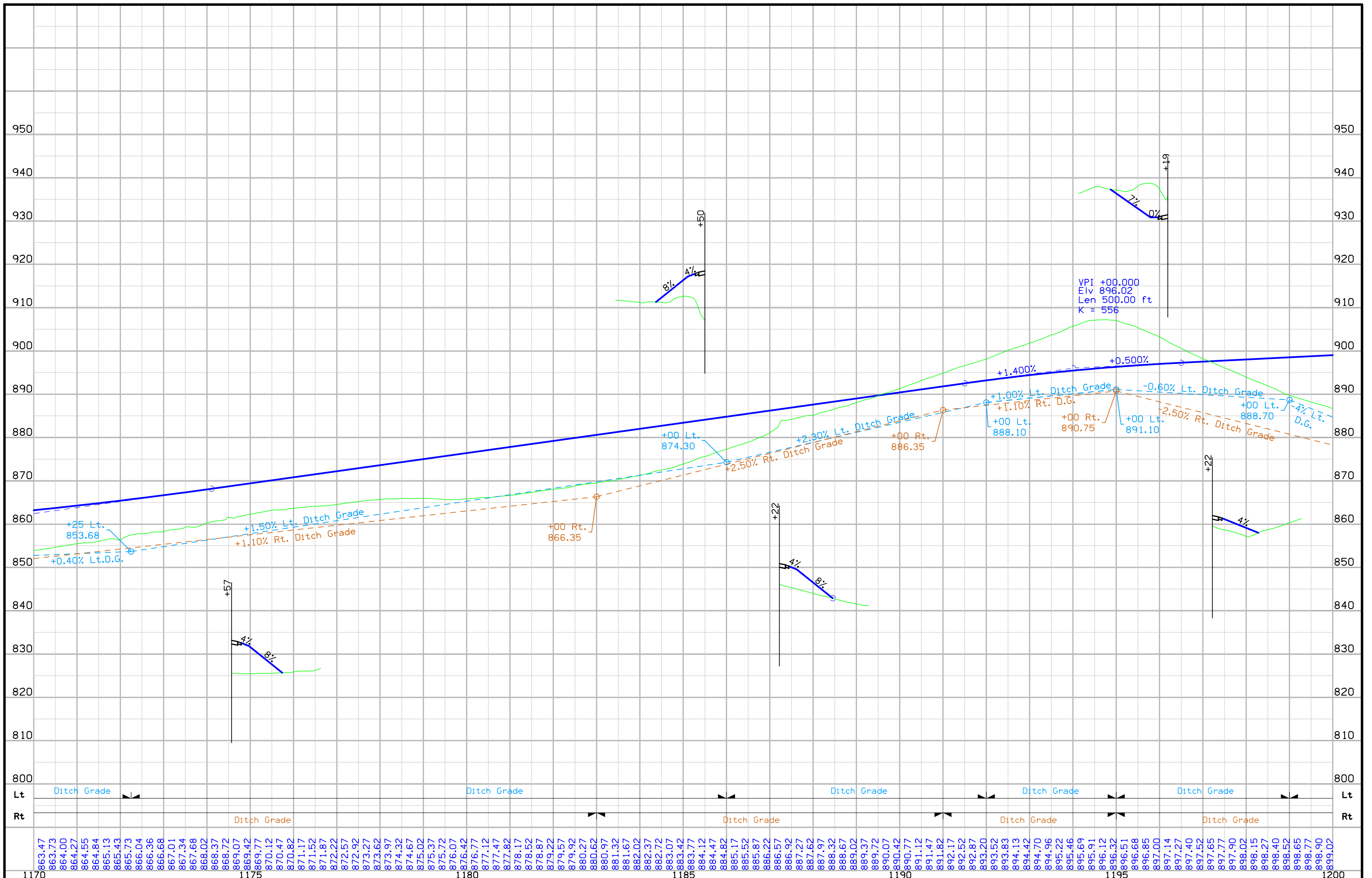
+22 Prop. Lt. Ent.  
Type "C" Uncl. Pipe  
XX"

+22 Prop. Lt. Ent.  
Type "C" Uncl. Pipe  
XX"

Union TWP.  
T-83N R-11W  
SEC. 33



U.S. Highway 30



FILE NO.	ENGLISH	DESIGN TEAM	BENTON COUNTY	PROJECT NUMBER	SHEET NUMBER
		Flattery\Bell		NHS-030-6(87)--19-06	D.35

9:12:42 AM 1/28/2016 jbuttol pw:\projectwise.dot.int.lan:PWMain\Documents\Projects\0603003092\Design\06030087D03.sht

Union TWP.  
T-83N R-11W  
SEC. 28

Union TWP.  
T-83N R-11W  
SEC. 27

1204+85 (Phase 2) Prop. Type "M" Dike Elev. = ????.??  
Sta. 1205+00, 44 Lt. (Phase 2) Install 24"x?? RCP w/Aprons F.L. = Lt. ????.?? Rt. ????.??

Sta. 1224+66, (Phase 2) Install 24"x100' RCP w/Inlet Apron F.L. = Lt. 895.50 Rt. 891.82  
Sta. 1229+13 (Phase 2) Install Inlet Apron Cap 18" Riser F.L. = Lt. ????.?? Rt. ????.??

Sta. 1205+97 48" X 65' Conc Pipe D.A. = PART OF 430 Ac - GR-R Remove (Phase 2)  
Sta. 1205+78 TWIN 4' X 4' X 56' RCB D.A. = PART OF 430 Ac - GR-R Remove (Phase 2)

Sta. 1205+91 (Phase 2) Build 8'x6'x133' RCB Design No. ??? Lt. FL. = 895.50 Rt. FL. = 891.82

Sta. 1224+46 2' X 2' X 60' RCB D.A. = 6 Ac - R Remove (Phase 2)

Sta. 1229+61 2' X 2' X 62' RCB D.A. = 17 Ac - R Divert to New Inlet (Phase 1) Remove (Phase 2)

1200

1205

1210

1215

1220

1225

1230

POT Sta. 1213+50.47 (ML030)  
= POT Sta. 191213+52.32 (SR19THAVE)

Sta. 1213+75, 39' RT 24" X 48' Conc Pipe D.A. = 3 Ac - R Remove

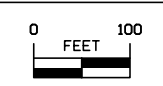
Sta. 1205+91 (Phase 1) Build 8'x6'x190' RCB Design No. ??? Lt. FL. = 891.82 Rt. FL. = 885.00

Sta. 1224+66 (Phase 1) Install 24"x190" RCP w/Outlet Apron F.L. = Lt. 891.82 Rt. 885.00

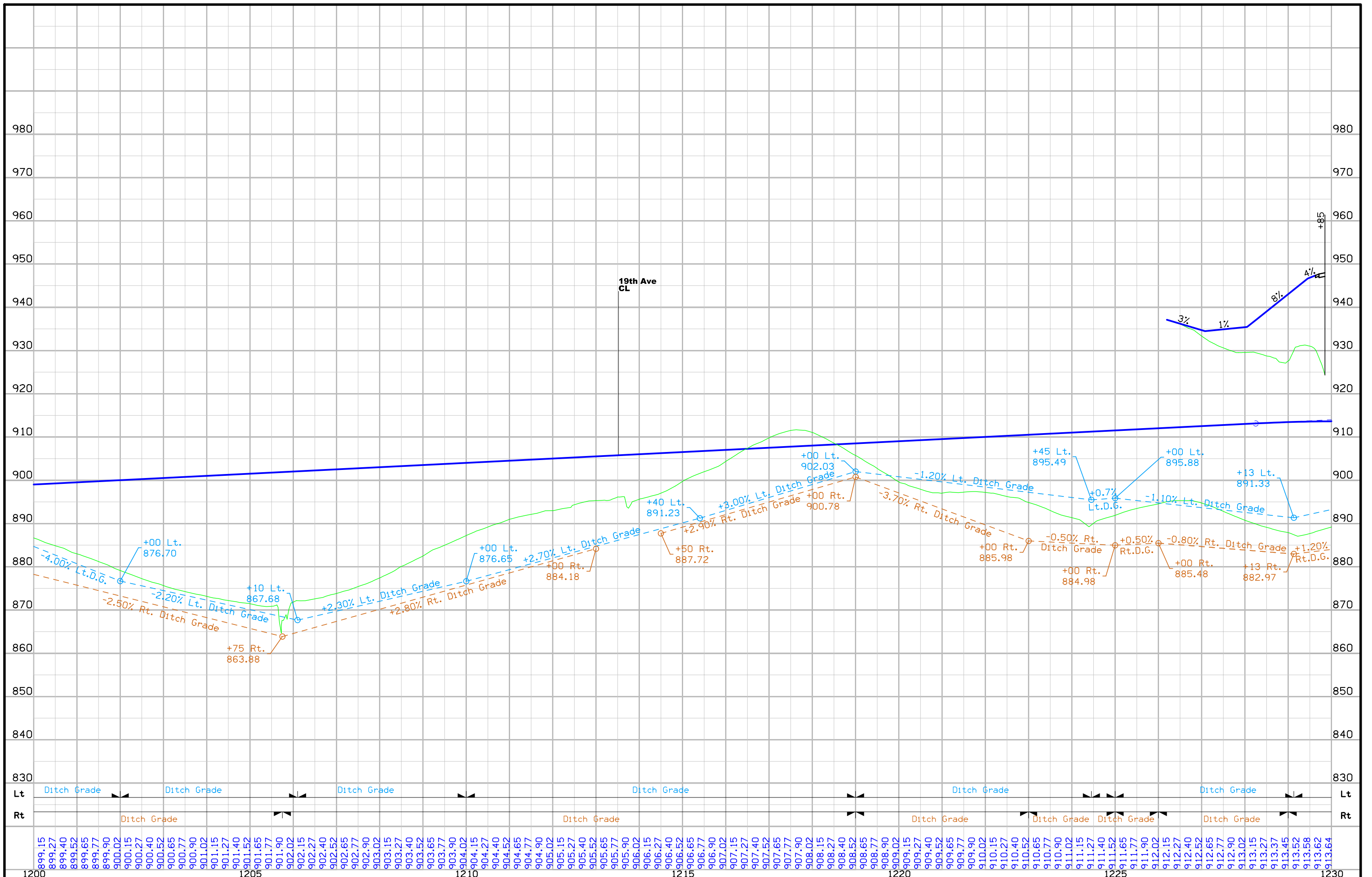
Sta. 1229+13 (Phase 1) Install 30" x 226' RCP w/ Outlet Apron Install 30" x 92' Jacked RCP Install DR-142 30" w/18" Riser F.L. = Lt. 891.82 Rt. 885.00 Riser FL. 885.85

Union TWP.  
T-83N R-11W  
SEC. 33

Union TWP.  
T-83N R-11W  
SEC. 34



U.S. Highway 30



Union TWP.  
T-83N R-11W  
SEC. 27

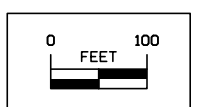


Sta. 1239+50, (Phase 2)  
Install 24"x???" RCP w/Aprons  
F.L. = Lt. ????.??  
Rt. ????.??

STA 1256+82.18  
30' X 40' I-BEAM BRIDGE  
DA=5980 AC F-SR  
Remove (Phase 2)

Build  
Sta. 1256+86.04  
Dual 90'-0" x 40'-0" CCS Bridge

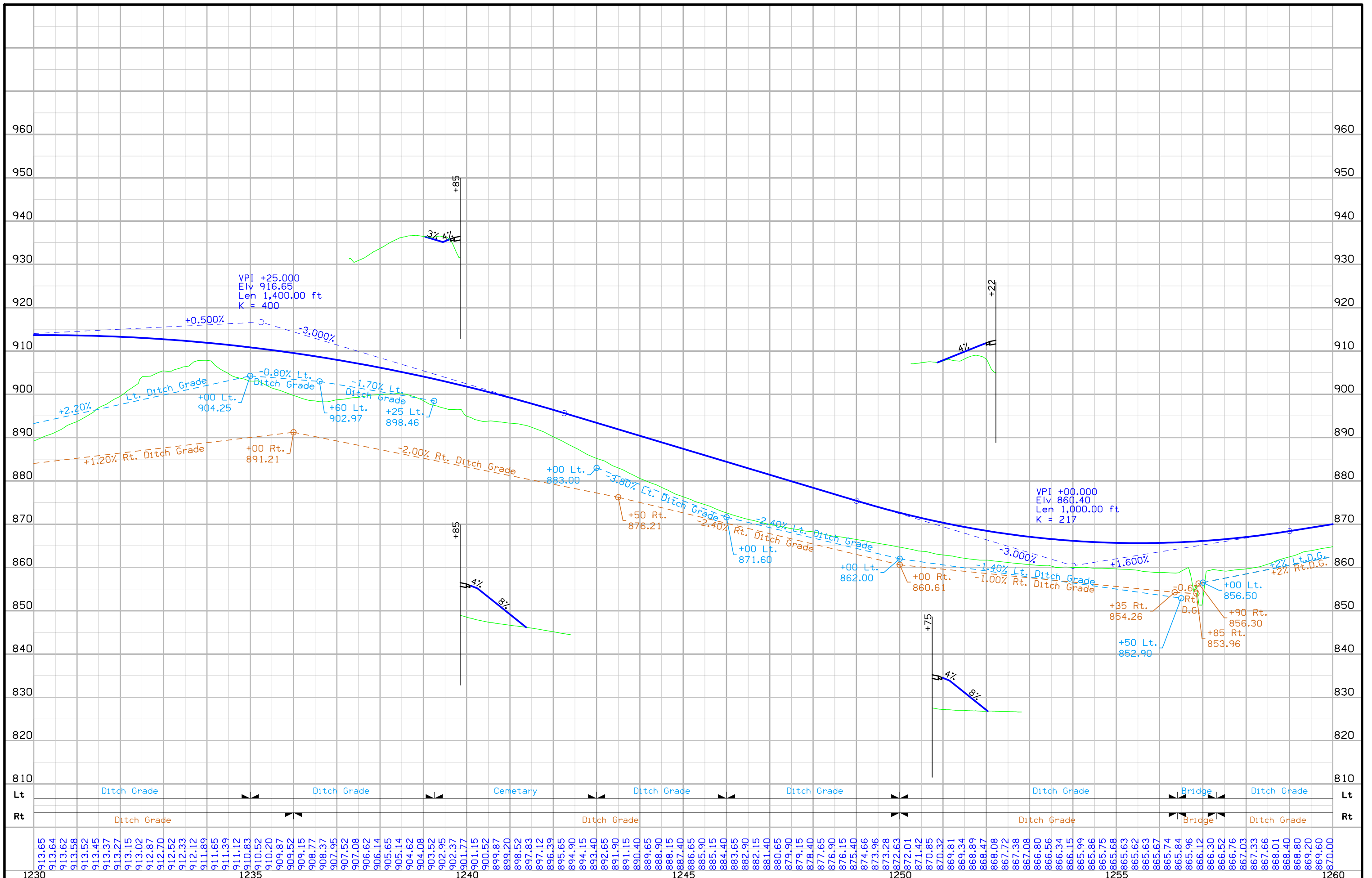
Union TWP.  
T-83N R-11W  
SEC. 34



**U.S. Highway 30**

FILE NO.	ENGLISH	DESIGN TEAM <b>Flattery\Bell</b>	<b>BENTON</b> COUNTY	PROJECT NUMBER	<b>NHS-030-6(87)--19-06</b>	SHEET NUMBER	<b>D.38</b>
----------	---------	----------------------------------	----------------------	----------------	-----------------------------	--------------	-------------

9:13:24 AM 1/28/2016 jbuttol pw:\projectwise.dot.int.lan:PWMain\Documents\Projects\0603003092\Design\06030087D02.sht



FILE NO.	ENGLISH	DESIGN TEAM	<b>Flattery\Bell</b>	BENTON COUNTY	PROJECT NUMBER	<b>NHS-030-6(87)--19-06</b>	SHEET NUMBER	<b>D.39</b>
----------	---------	-------------	----------------------	---------------	----------------	-----------------------------	--------------	-------------

9:13:27 AM 1/28/2016 jbuttol pw:\projectwise.dot.int.lan:PWMain\Documents\Projects\0603003092\Design\06030087D03.sht

Union TWP.  
T-83N R-11W  
SEC. 27

Union TWP.  
T-83N R-11W  
SEC. 27

Union TWP.  
T-83N R-11W  
SEC. 26



20th Avenue

Sta. 1288+00, 44' Lt. (Phase 2)  
Install 24"x???" RCP w/Aprons  
F.L. = Lt. ????.??  
Lt. ????.??

Sta. 1278+50, (Phase 2)  
Install 24"x88' RCP w/Inlet Apron  
F.L. = Lt. 890.41  
Lt. 889.04

Sta. 1284+10, (Phase 2)  
Install 30"x82' RCP w/Inlet Apron  
F.L. = Lt. 897.00  
Lt. 894.60

Sta. 1267+00, 44' Lt. (Phase 2)  
Install 24"x???" RCP w/Aprons  
F.L. = Lt. ????.??  
Lt. ????.??

Sta. 1278+49, w/ 30" RCP EXT ON INLET  
2' X 2' X 56' RCB  
D.A. = 9' Ac - R  
Remove (Phase 2)

1276+85 (Phase ?)  
Prop. Type "M" Dike  
Elev. = ????.??

Sta. 1284+10, w/ EXTS  
2' X 2' X 35' RCB  
D.A. = 16' Ac - R  
Remove (Phase 2)

1287+85 (Phase ?)  
Prop. Type "M" Dike  
Elev. = ????.??

1260 1265 1270 1275 1280 1285 1290

POT Sta. 1266+18.28 (ML030)  
= POT Sta. 201266+18.11 (SR20THAVE)

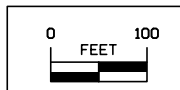
+31 Prop. Lt. Ent. Pipe  
Type "C" Uncl. Pipe  
XX" Uncl. Pipe

Sta. 1278+50, (Phase 1)  
Install 24"x126' RCP w/Outlet Apron  
F.L. = Lt. 889.04  
Lt. 887.12

Sta. 1284+10, (Phase 1)  
Install 30"x82' RCP w/Outlet Apron  
F.L. = Lt. 894.60  
Lt. 890.00

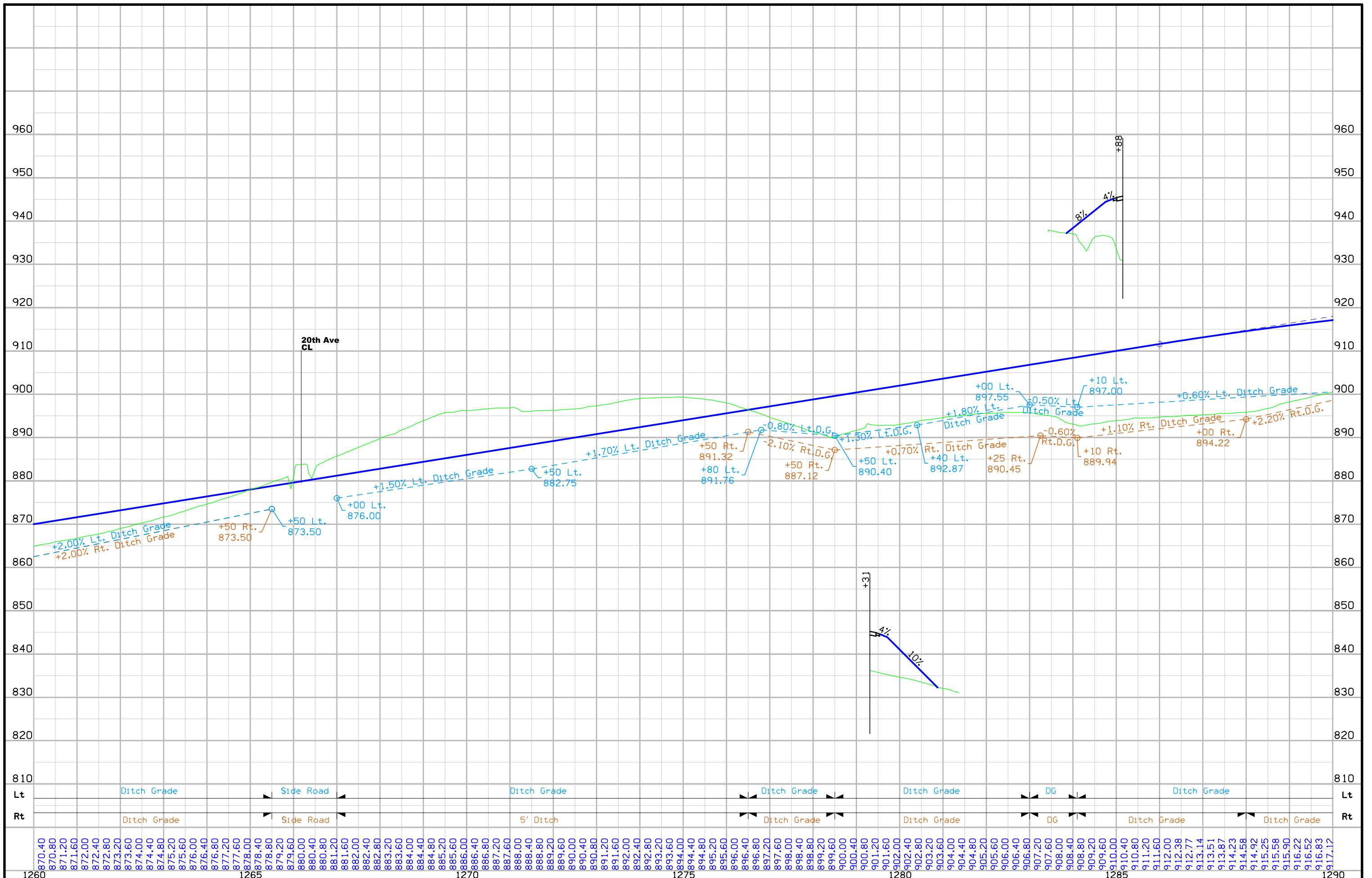
Union TWP.  
T-83N R-11W  
SEC. 34

Union TWP.  
T-83N R-11W  
SEC. 35



U.S. Highway 30





FILE NO.	ENGLISH	DESIGN TEAM	<b>Flattery\Bell</b>	BENTON COUNTY	PROJECT NUMBER	<b>NHS-030-6(87)--19-06</b>	SHEET NUMBER	<b>D.41</b>
----------	---------	-------------	----------------------	---------------	----------------	-----------------------------	--------------	-------------

Union TWP.  
T-83N R-11W  
SEC. 26



Sta. 1317+60, 44' Rt. (Phase 2)  
Install 24"x94' RCP w/Inlet Apron  
Lt. ????.??  
F.L. = Rt. ????.??

Sta. 1317+85 (Phase 2)  
Install 36"x104' RCP w/Inlet Apron  
Lt. 889.10  
F.L. = Rt. 897.91

POT Sta. 1318+81.94 (ML030)  
= POT Sta. 211318+82.07 (SRV66)

Sta. 1305+45 (Phase 2)  
Install 24"x94' RCP w/Outlet Apron  
Lt. 915.00  
F.L. = Rt. 916.08

Sta. 1305+46  
2' X 2' X 53' RCB  
D.A. = 8 Ac - GR  
Remove (Phase 2)

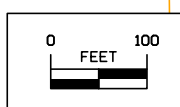
Sta. 1318+58, 62' RT 45 LT AHEAD  
24" X 60' Conc Pipe  
D.A. = 11 Ac - R  
Remove (Phase 2)

Sta. 1305+45 (Phase 1)  
Install 24"x80' RCP w/Inlet Apron  
Lt. 916.08  
F.L. = Rt. 917.00

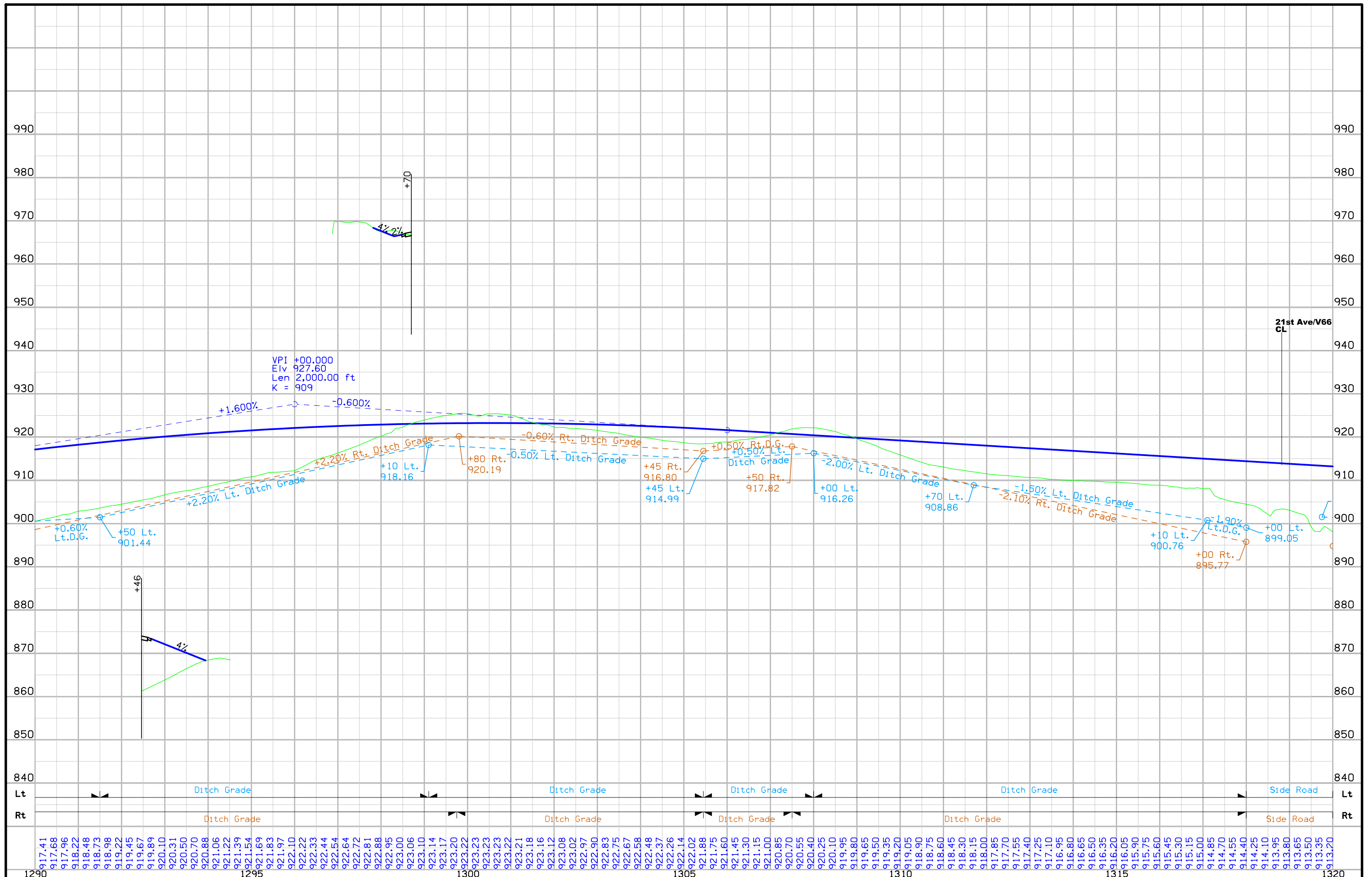
Sta. 1318+83, 45 RT AHEAD  
36" X 176' Conc Pipe  
D.A. = 20 Ac - GR-R  
Remove (Phase 2)

Sta. 1317+85 (Phase 1)  
Install 36"x190' RCP w/Inlet Apron  
Lt. 897.91  
F.L. = Rt. 895.80

Union TWP.  
T-83N R-11W  
SEC. 35



U.S. Highway 30



Union TWP.  
T-83N R-11W  
SEC. 25



Sta. 1325+81  
3' X 3' X 54' RCB  
D.A. = 30 Ac - GR-R

18" X 47.8'  
C.M.P. Ent.  
Remove

Sta. 1339+99  
2' X 2' X 54' RCB  
D.A. = 3 Ac - R

+28 Prop. Ent.  
Type C' Uncl. Pipe

+94 Prop. Ent.  
Type C' Uncl. Pipe

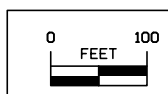
+86.00  
ENT. CLOSE

+45.00  
ENT. CLOSE

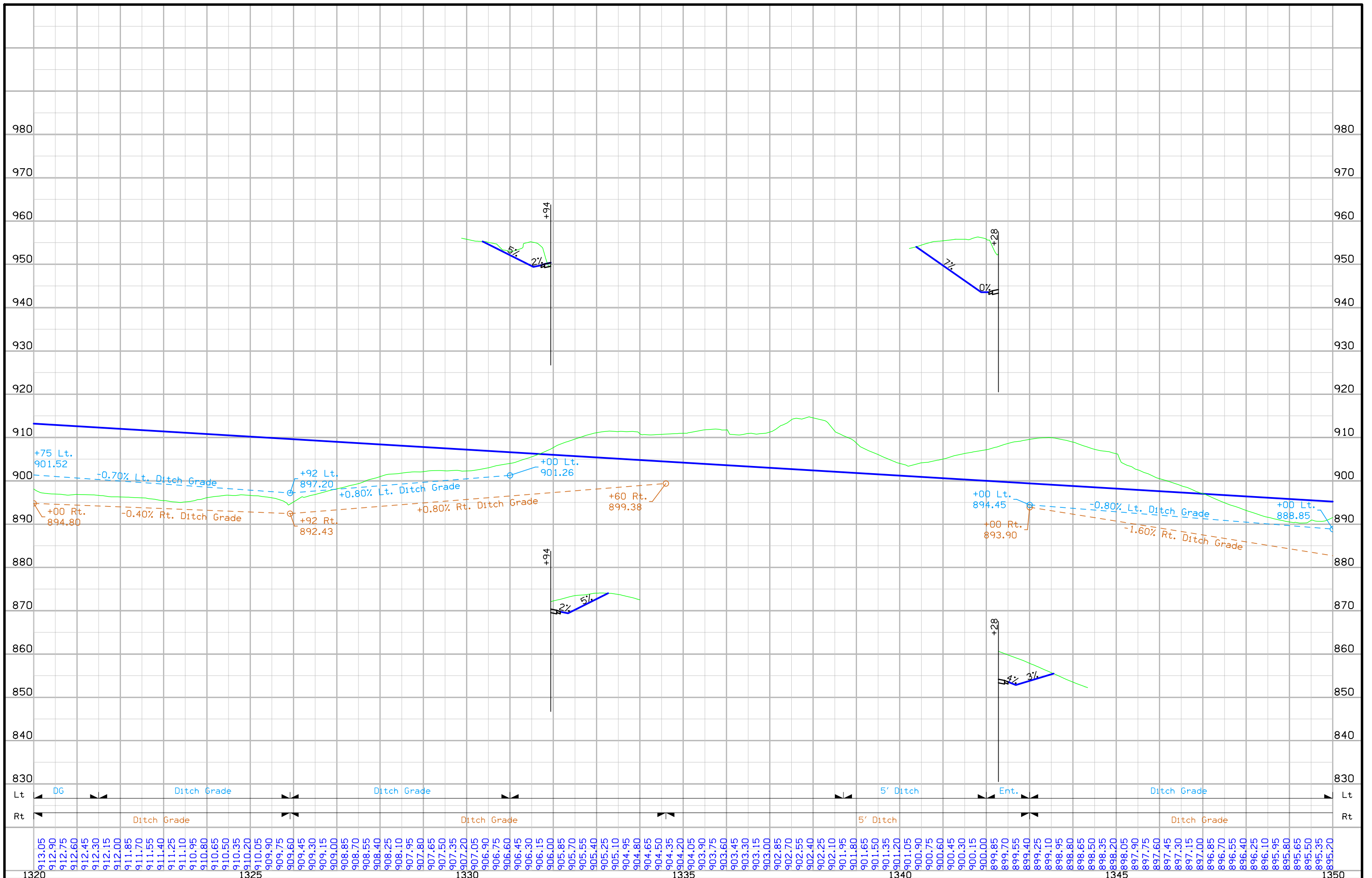
18" X 80'  
C.M.P. Ent.  
Remove

+94 Prop. Ent.  
Type C' Uncl. Pipe

Union TWP.  
T-83N R-11W  
SEC. 36



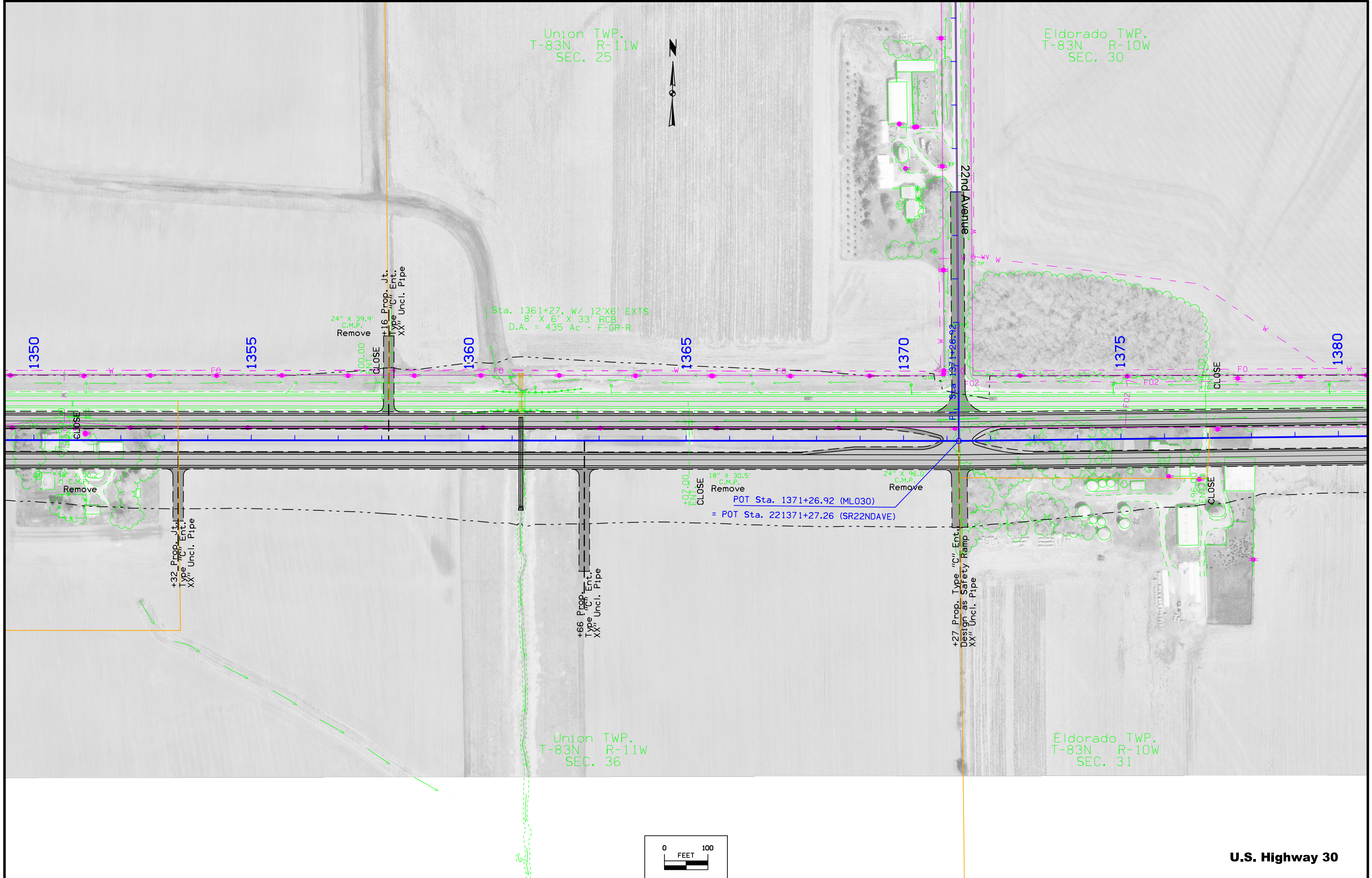
U.S. Highway 30



FILE NO.	ENGLISH	DESIGN TEAM	Flattery\Bell	BENTON COUNTY	PROJECT NUMBER	NHS-030-6(87)--19-06	SHEET NUMBER	D.45
----------	---------	-------------	---------------	---------------	----------------	----------------------	--------------	------

Union TWP.  
T-83N R-11W  
SEC. 25

Eldorado TWP.  
T-83N R-10W  
SEC. 30

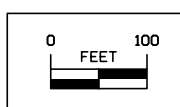


Sta. 1361+27, W/ 12'X6' EXTS  
8' X 6' X 33' RCB  
D.A. = 435 Ac - F-GR-R

18" X 30.5'  
C.M.P.  
Remove  
POT Sta. 1371+26.92 (ML030)  
= POT Sta. 221371+27.26 (SR22NDAYE)

Union TWP.  
T-83N R-11W  
SEC. 36

Eldorado TWP.  
T-83N R-10W  
SEC. 31



**U.S. Highway 30**