

POWESHIEK CO.
PCC PAVEMENT - GRADE AND REPLACE
NHSN-63-4(43)--2R-79
 LETTING DATE
 Feb. 17, 2015



Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM POWESHIEK COUNTY PCC PAVEMENT - GRADE AND REPLACE

From NCL Montezuma north to just north of I-80

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.15 of the Specifications.



MILEAGE SUMMARY

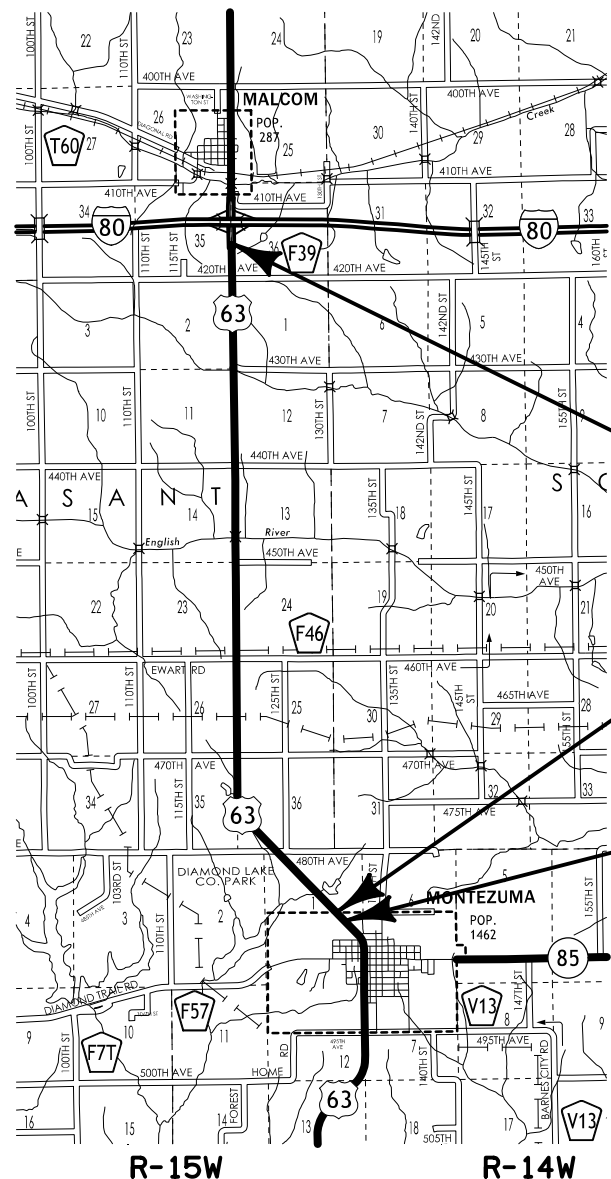
105-1
09-27-94

Div.	Location	Lin. Ft.	Miles
1	Urban: City of Montezuma Sta. 329+06 to Sta. 339+48	1042.00	
	Length of Division 1	1042.00	0.197
2	Rural: Sta. 339+48 to Sta. 730+20 Omit Bridge at Sta. 567+13.0	39072.00 133.00	
	Length of Division 2	38939.00	7.375
	Total Length of Project	39981.00	7.572

STA. 730+20
END PROJECT
& Div. 2
MP - 96.84

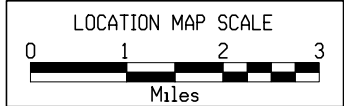
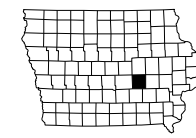
STA. 339+48
END DIV. 1
BEGIN DIV. 2

STA. 329+06
BEGIN PROJECT
& DIV. 1
MP - 88.86



T-79N

T-80N



DESIGN DATA RURAL

2015 AADT	3000	V.P.D.
2035 AADT	4000	V.P.D.
2035 DHV	410	V.P.H.
TRUCKS	18	%
Total Design ESALs	--	

INDEX OF SEALS

SHEET NO.	NAME	TYPE
A.1	Tony J. Gustafson	Primary Signature Block

REVISIONS

TOTAL
??
PROJECT IDENTIFICATION NUMBER
12-79-063-010
PROJECT NUMBER
NHSN-63-4(43)--2R-79
R.O.W. PROJECT NUMBER
NHSN-63-4(42)--2R-79

INDEX OF SHEETS

105-3
10-18-05

No.	Description
A.1	Title Sheet
B.1 - B.7	Typical Cross Sections
C.1 - C.7	Estimate of Quantities and General Information
* D.1	Plan and Profile Legend & Symbol Information Sheet
* D.2 - D.16	Mainline Plan and Profile Sheets
G.1 - G.2	Bench Marks and Reference Information
G.3 - G.6	Horizontal Alignment Information
K.1 - K.7	I-80/US 63 Interchange Sheets
L.1 - L.7	Geometric, Staking, Jointing Detail Sheets
* V.1 - V.4	RCB Culvert Situation Plan Sheets
W.1 - W.45	Snow Borrow Cross Sections Sta. 338 to Sta. 446
X.1 - X.6	Snow Borrow Cross Sections Sta. 535 to Sta. 543
Y.1 - Y.7	Snow Borrow Cross Sections Sta. 556 to Sta. 564
Z.1 - Z.44	Climb. Lanes/Snow Borr. Cross Sections Sta. 571 to Sta. 690

* Color Plan Sheet

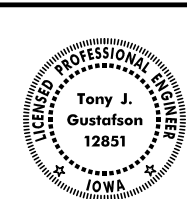
For Tabulation of Standard Road Plans
Refer to Sheet No. C.7

D5 PLAN REVISION - Date: July 16, 2014

~~D5 PLAN - Date: January 17, 2014~~

PRELIMINARY PLANS

Subject to change by final design.



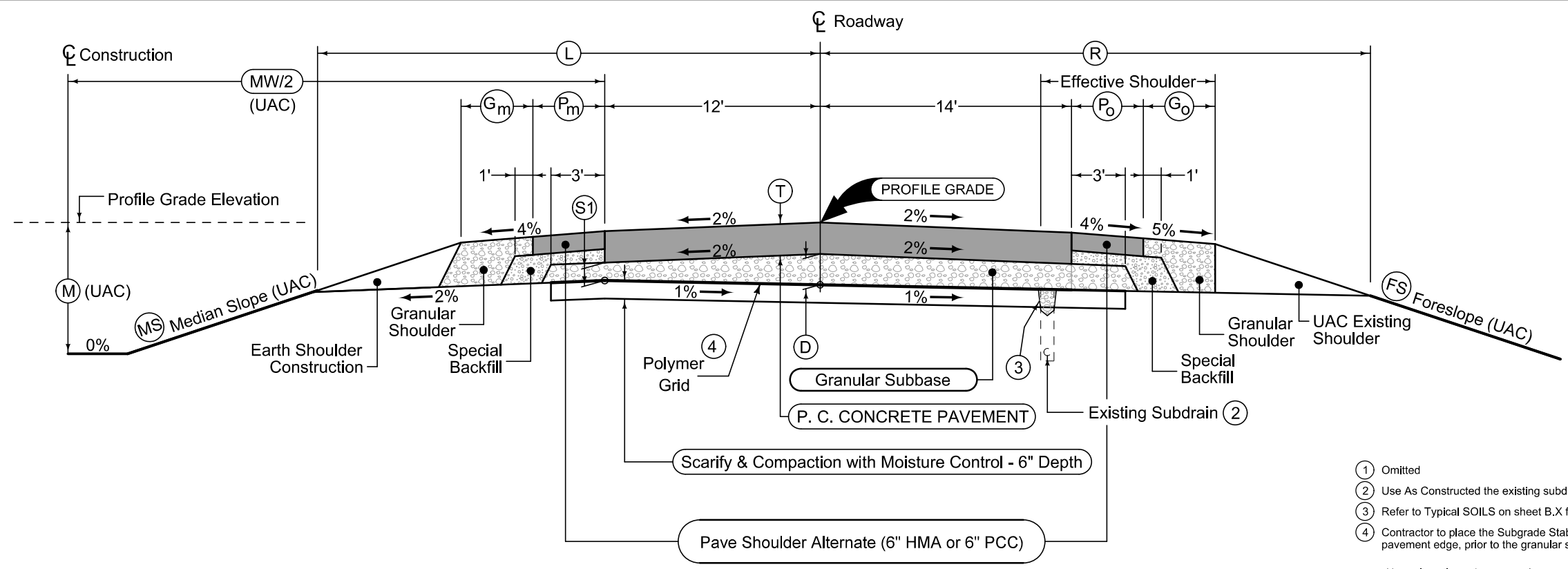
I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature _____ Date _____

Printed or Typed Name Tony J. Gustafson

My license renewal date is December 31, 20 15.

Pages or sheets covered by this seal: A.1, B.1-B.7, C.1-C.7, D.1-D.16, G.1-G.6, V.1-V.4, W.1-W.45, X.1-X.6, Y.1-Y.7, Z.1-Z.44



VIEWED IN DIRECTION OF TRAVEL

- ① Omitted
- ② Use As Constructed the existing subdrains.
- ③ Refer to Typical SOILS on sheet B.X for subdrain details.
- ④ Contractor to place the Subgrade Stabilization Material (Polymer Grid), 3' outside the pavement edge, prior to the granular subbase placement.

Normal sections shown may be appropriately modified for areas specifically designated by the Engineer such as intersections or super-elevated curves.

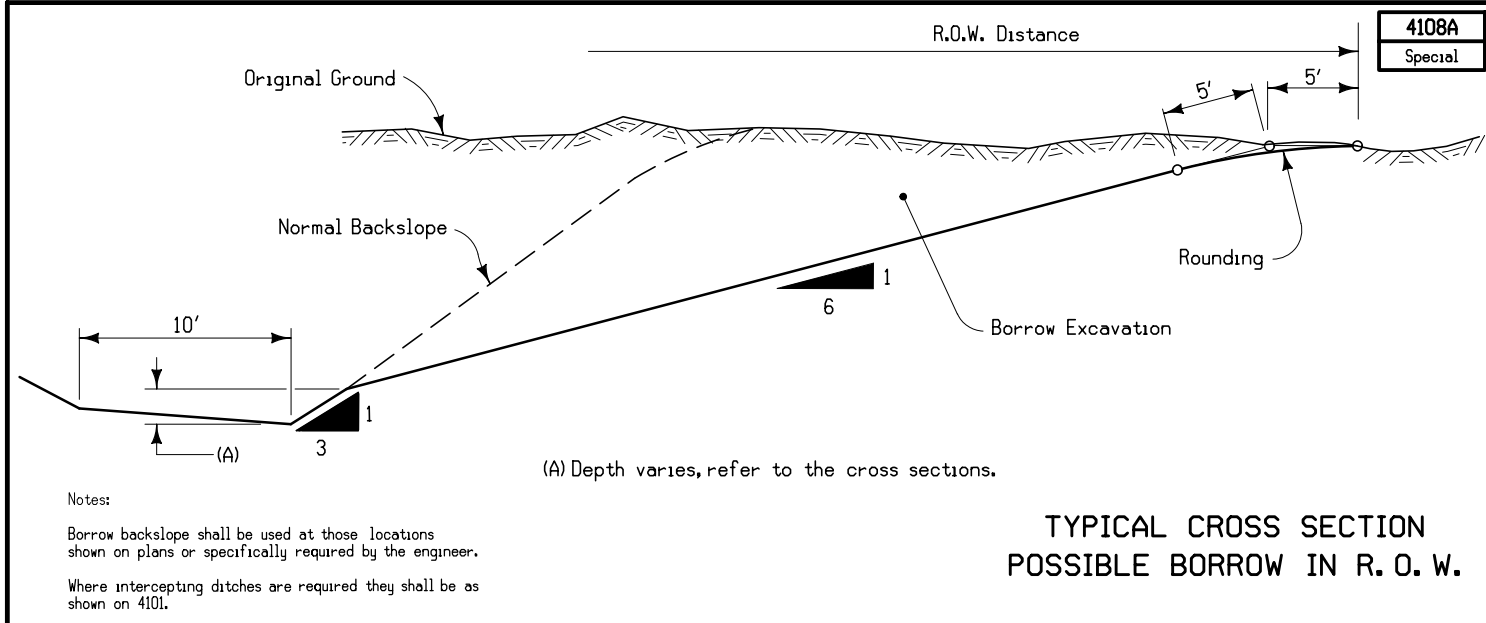
PCC Shoulder:
6" uniform thickness
Longitudinal joint: BT-1** or BT-5
**Bent bars will be permitted for the BT-1 joint and 30" #5 bars can be substituted for the 36" #4 bars.
Tie Bars spaced at 3.5' centers
Transverse joints: C, Match joint locations in adjacent pavement.

HMA Shoulder:
6" uniform thickness
Longitudinal joint: B

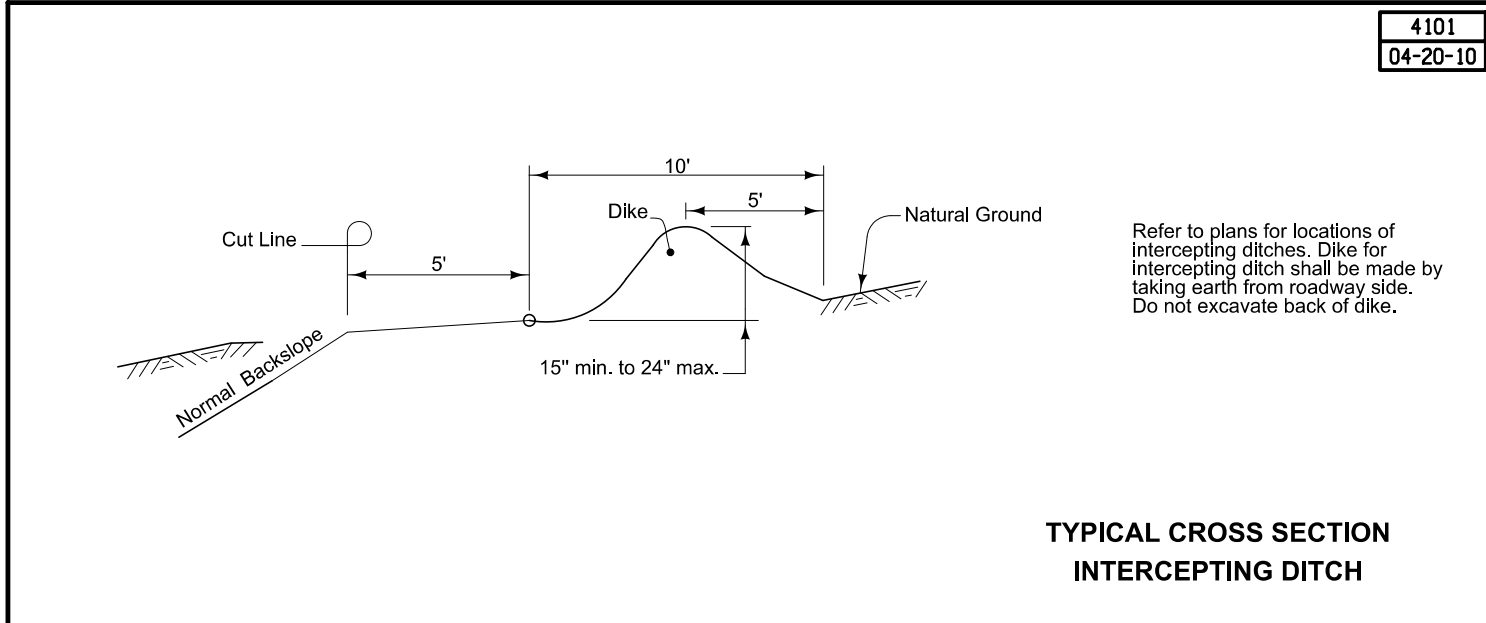
Mainline Pavement
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

LOCATION		MAINLINE						SHOULDER				SLOPES		
ROAD IDENTIFICATION	STATION TO STATION	(T)	(S1)	(D)	(MW)	(M)	(L)	(R)	(P _m)	(G _m)	(P _o)	(G _o)	(MS)	(FS)
		Inches	Inches	Inches	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet		
DIVISION 2														
US 63 NB	730+00 758+00	9.5	6.0	10.32	50	Varies	26.6	30.4	4	2	4	4	3:1	3:1
US 63 SB	1730+03 1753+39	9.5	6.0	10.32	50	Varies	26.6	30.4	4	2	4	4	3:1	3:1

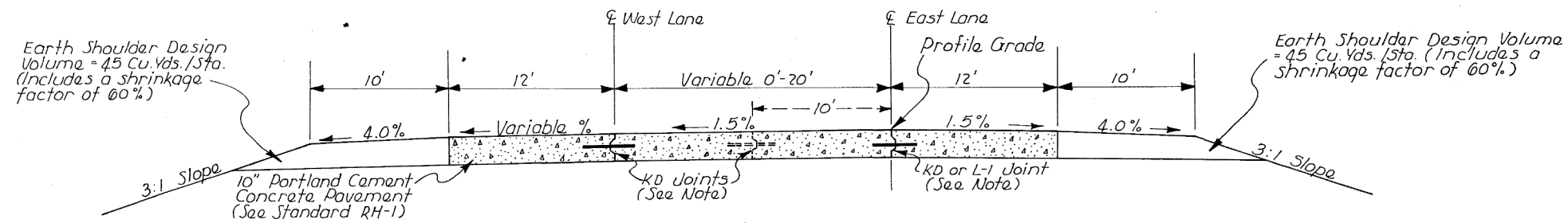
**4-LANE DIVIDED ROADWAY
PCC PAVING (Alternate HMA or PCC Shoulders)**



TYPICAL CROSS SECTION
POSSIBLE BORROW IN R. O. W.



TYPICAL CROSS SECTION
INTERCEPTING DITCH

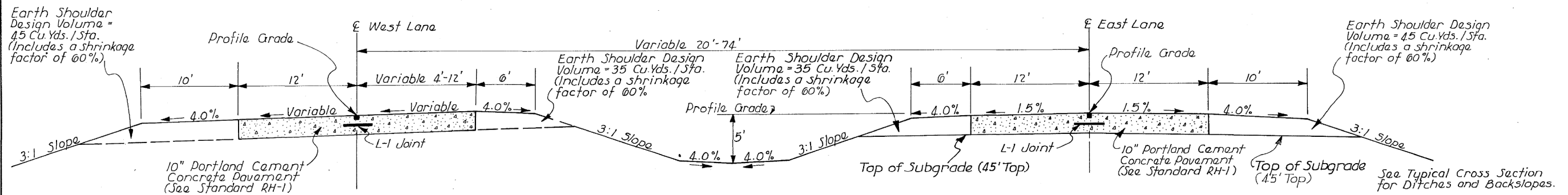


PAVING
TYPICAL CROSS SECTION
PROPOSED HIGHWAY IMPROVEMENT (U.S. NO.63)
STATION TO STATION
Sta. 722+00.00 725+70.69 } East Lane
Sta. 753+74.20 760+40.60 }

"Notes"
When variable width is from 0' to 10' place 2-KD joints, at 10', KD joint may be changed (on lane entering Interchange area) to L-1 Joint.
For Joint Nomenclature See Sheet No. 49 (Standard RH-2).

Note:
U.S. No.63 (Side Road)
For Details of Paving Construction for Two Lane to Four Lane tie-ins, See Sheets No. 27A, 27B, 29A & 29B

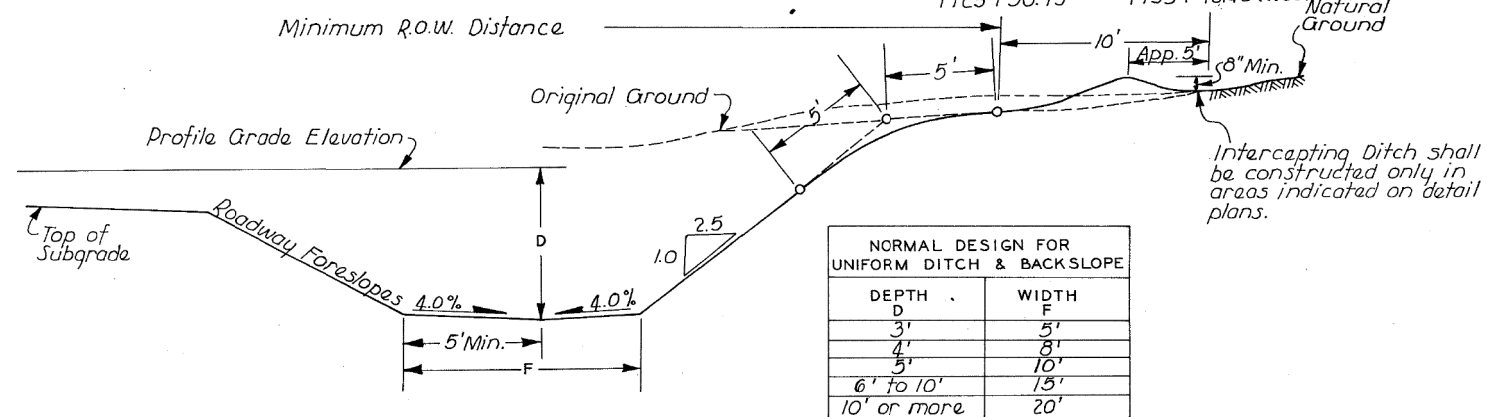
Note:
For Typical Cross Section of Median Areas, See Sheet No. 29A



GRADING (WEST LANE)
GRADE & PAVE (EAST LANE)
TYPICAL CROSS SECTION
PROPOSED HIGHWAY IMPROVEMENT (U.S. NO.63)

STATION TO STATION
725+70.69 753+74.20 (East Lane)
1725+90.73 1753+78.42 (West Lane)

Note:
4' Earth Shoulder Design Volume = 25 Cu. Yds./Sta. See Sheets No. 30A & 30B for location.



TYPICAL CROSS SECTION OF DITCHES & BACKSLOPES

SURVEY SYMBOLS

— x — FW Wire Fence	———— BRG Bridge
———— CUL Culvert	⊕ PPC Power Pole Co. 3
⊕ PPB Power Pole Co. 2	———— TOP Top of Bridge Pier
———— PIP Pipe Culvert	⊕ TFR Tree Fruit
• PLG Location of General Photo	----- BNK Stream Bank
○ TP TPD Telephone Pedestal	----- ENU Edge Unpaved Entrance & Parking
● PR Electric Riser Pole	----- SNP Unpaved Shoulder
———— LIN Miscellaneous Line	----- ENT Centerline BL of Entrance
———— BLD Building or Foundation	⚡ RIP Rip-Rap
○ OUT Tile Outlet	→ D Centerline Draw or Stream (Down)
— Title — TIL Tile Line	← DU Centerline Draw or Stream (Up)
○ MM MM Mile Marker Post	———— SH Paved Shoulder
□ SIGN SI Sign	----- EG Edge of Gravel Road
———— SF Silt Fence (Wetlands)	———— SWK Sidewalk
⊕ SHR Shrub	———— CU Back of Curb
* TEV Evergreen Tree	⚡ DIK Centerline of Dike or Dam
⊕ TDC Tree Deciduous	———— ENP Edge Paved Entrance & Park Lot
⊕ STP Stump	----- EW Edge of Water
■ GP GP Guard Post (Less Than 4 Posts)	———— CON Concrete or A/C Slab
⊕ MH Utility Access (Manhole)	———— GU Gutter In Front of Curb
⚡ RET Retaining Walls	----- BL Topo Breakline
— # — FCL Chain Link and Security Fence	— W — WLA Underground Water Line Co. 1
○ LUM Luminaire	— F0 — FOA Underground Fiber Optic Co. 1
● WH WHD Water Hydrant	— E1 — ELA Underground Electric Line Co. 1
⊕ INB Storm Sewer Beehive Intake	— F02 — FOB Underground Fiber Optic Co. 2
⊕ PPA Power Pole Co. 1	— G — GLA Underground Gas Line Co. 1
○ WV WV Water Valve	— T1 — TLA Underground Telephone Line Co. 1
⚡ FHD Fire Hydrants	• SOP Size of Pipe or Culvert
□ EB EB Electrical Box	• PRO Profile Shot
○ MIS Miscellaneous	• UE Utility Elevation
⚡ GDL Guard Rail Steel	----- C Centerline BL of Road (ML or SR)
⚡ TLNR Tree Line Right	• BD Bridge Deck
⊕ TPA Telephone Pole Co. 1	• GR Ground Shot
⚡ TLNL Tree Line Left	— F03 — FOC Underground Fiber Optic Co. 3
⊕ WEL Well	• BCL Bridge Centerline
⊕ TV Satellite TV Dish	
⊕ LP L.P. Tank	
⊕ WM Wind Mill	
⊕ SLO Silo	
⊕ SEP Septic Tank	
□ RT RT Radio Tower	
———— EP Edge of Paved Roads (ML or SR)	
○ FLG FLG Flag Poles	
○ GV GV Gas Valve	
⊕ HT Electrical Highline Tower	
□ SIGN SL Speed Limit Sign	
⚡ HDG Hedge Row	
⊕ IN Storm Sewer Intake	

UTILITY LEGEND

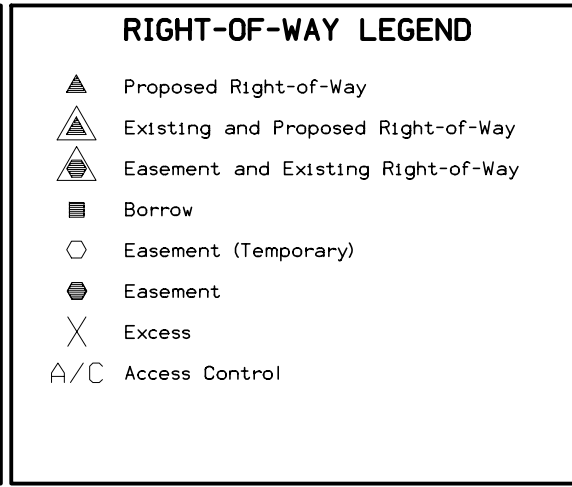
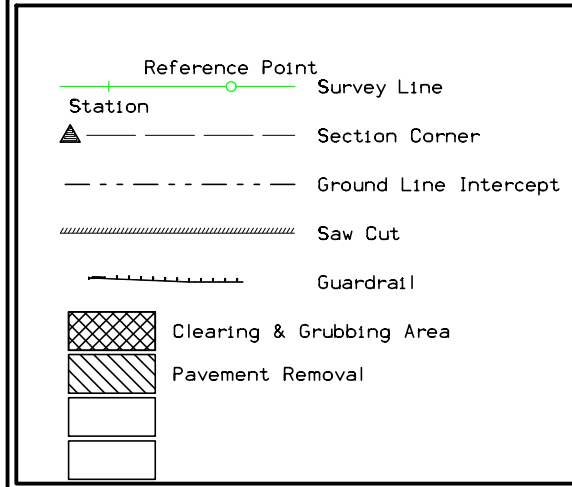
⊕ Mid American Energy	⊕ Alliant Energy
⊕ Mid American Energy	⊕ TPA Telephone Pole Windstream
⊕ Private	⊕ Electrical Highline Tower
— E1 — IDOT (QLD)	— F0 — Windstream (QLD)
— F02 — MCI (QLD)	— F03 — ICN (QLD)
— G — Magellan (QLD)	— T1 — Windstream (QLD)
— W — Poweshiek Water Association (QLD)	

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.	Description
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
Brown, Light	(236)	Grading Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading

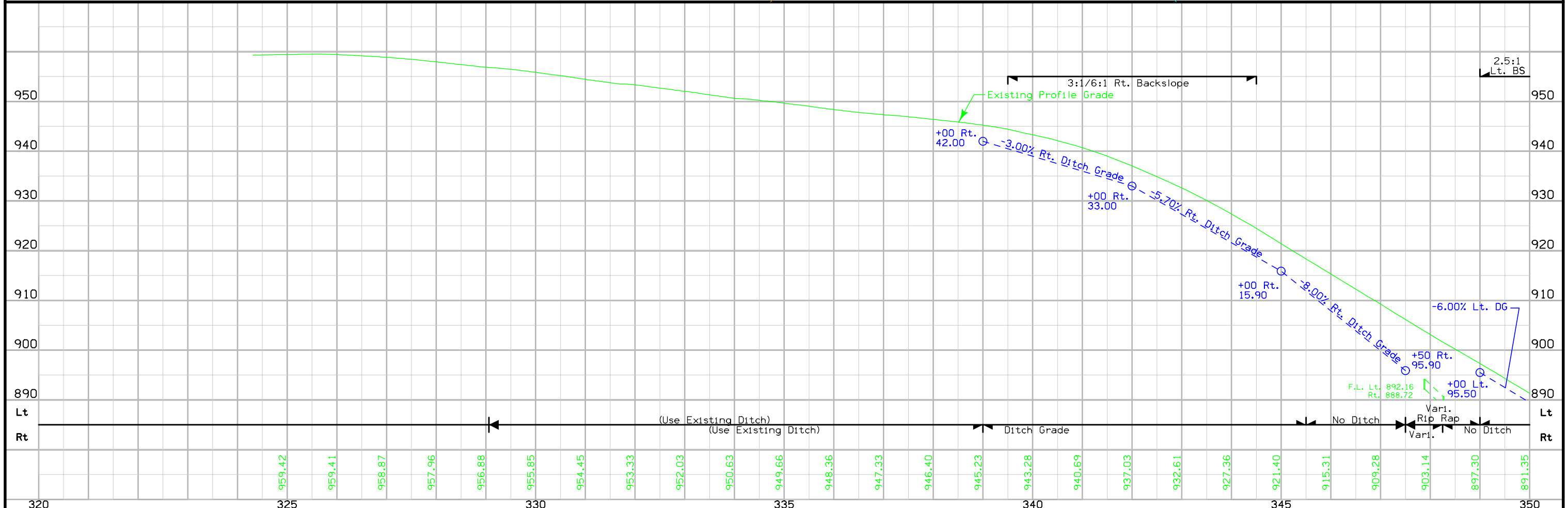
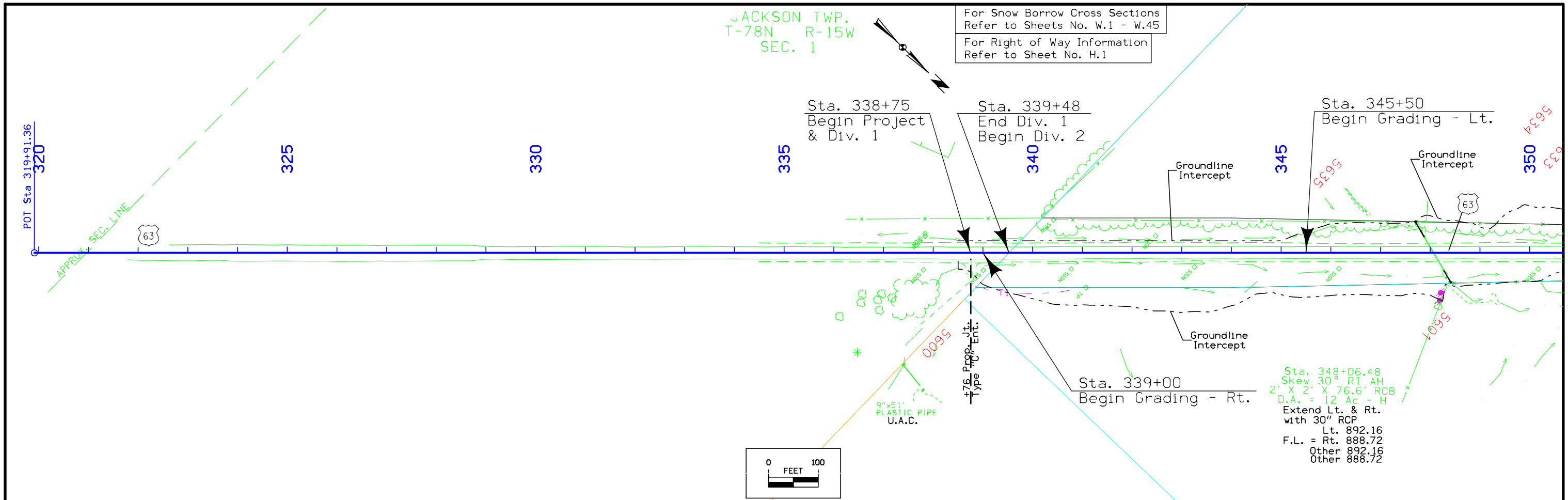
PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

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



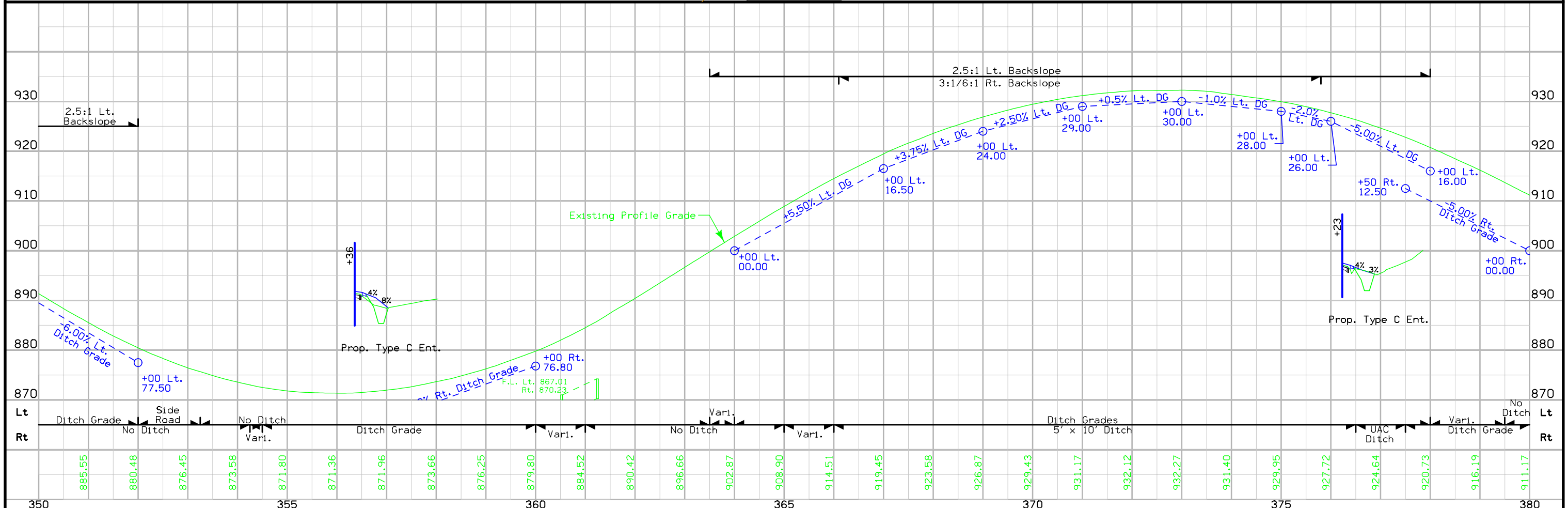
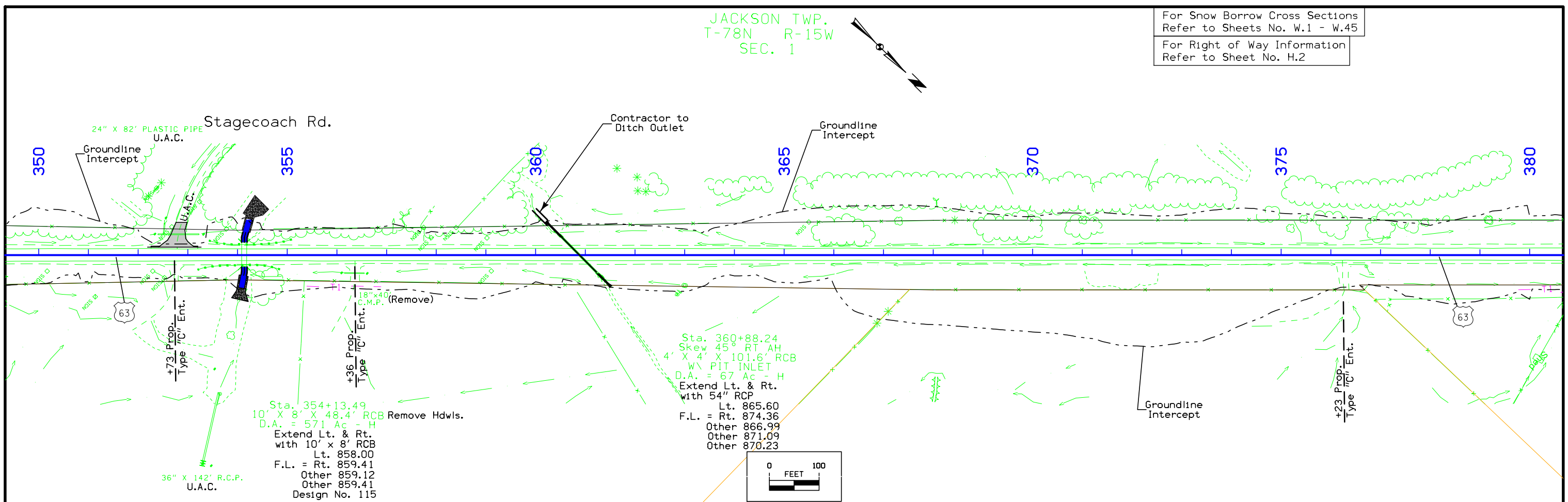
PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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

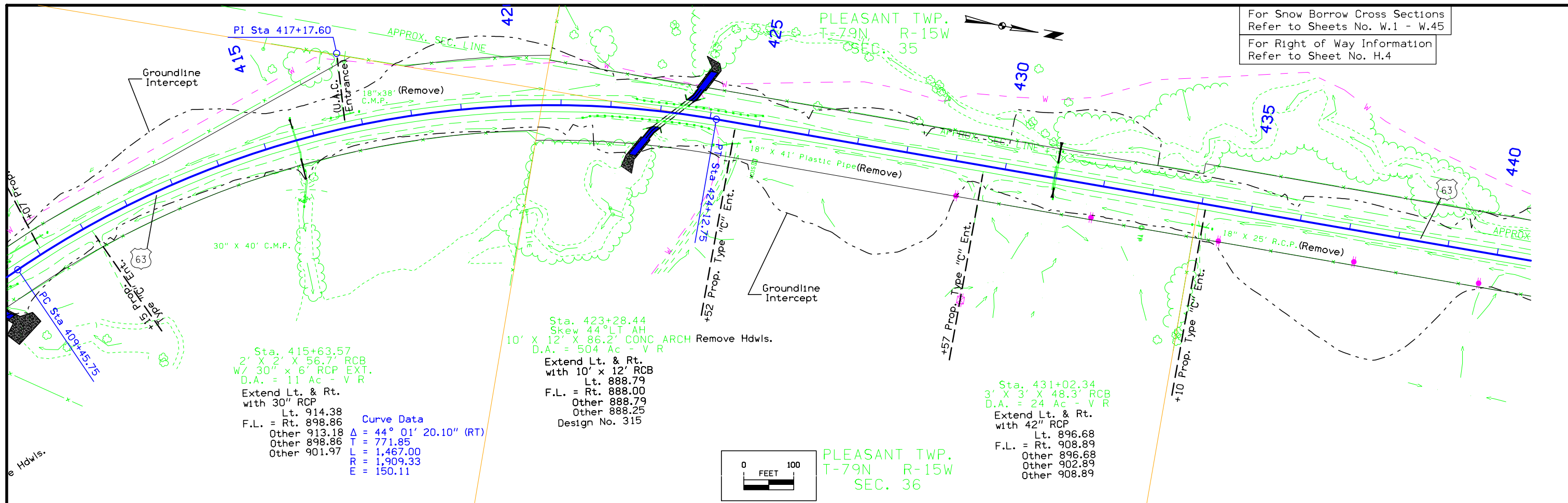


JACKSON TWP.
T-78N R-15W
SEC. 1

For Snow Borrow Cross Sections
Refer to Sheets No. W.1 - W.45
For Right of Way Information
Refer to Sheet No. H.2



FILE NO.	ENGLISH	DESIGN TEAM	Tony Gustafson\Gary Mackey	POWESHIEK COUNTY	PROJECT NUMBER	NHSN-63-4(43)--2R-79	SHEET NUMBER	D.3
----------	---------	-------------	----------------------------	------------------	----------------	----------------------	--------------	-----



For Snow Borrow Cross Sections
Refer to Sheets No. W.1 - W.45

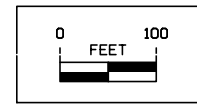
For Right of Way Information
Refer to Sheet No. H.4

Sta. 415+63.57
2' X 2' X 56.7' RCB
w/ 30" X 6" RCP EXT.
D.A. = 11 Ac - V R
Extend Lt. & Rt.
with 30" RCP
Lt. 914.38
F.L. = Rt. 898.86
Other 913.18
Other 898.86
Other 901.97

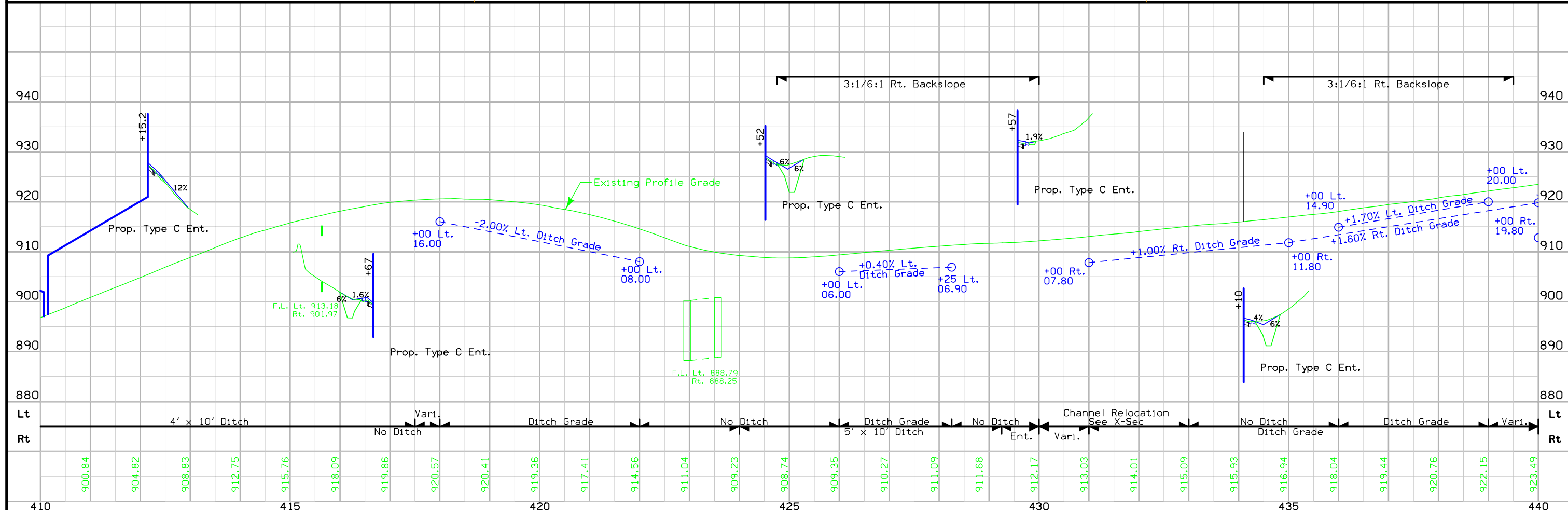
Curve Data
Δ = 44° 01' 20.10" (RT)
T = 771.85
L = 1,467.00
R = 1,909.33
E = 150.11

Sta. 423+28.44
Skew 44° LT AH
10' X 12' X 86.2' CONC ARCH Remove Hdwls.
D.A. = 504 Ac - V R
Extend Lt. & Rt.
with 10' x 12' RCB
Lt. 888.79
F.L. = Rt. 888.00
Other 888.79
Other 888.25
Design No. 315

Sta. 431+02.34
3' X 3' X 48.3' RCB
D.A. = 24 Ac - V R
Extend Lt. & Rt.
with 42" RCP
Lt. 896.68
F.L. = Rt. 908.89
Other 896.68
Other 902.89
Other 908.89

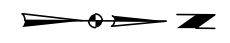


PLEASANT TWP.
T-79N R-15W
SEC. 36



FILE NO.	ENGLISH	DESIGN TEAM	Tony Gustafson\Gary Mackey	POWESHIEK COUNTY	PROJECT NUMBER	NHSN-63-4(43)--2R-79	SHEET NUMBER	D.5
----------	---------	-------------	----------------------------	------------------	----------------	----------------------	--------------	-----

PLEASANT TWP.
T-79N R-15W
SEC. 26



470

475

480

485

490

495

500

APPROX. SEC. LINE

APPROX. SEC. LINE

APPROX. SEC. LINE

APPROX. SEC. LINE



Ewart Rd.

Sta. 475+65
DA = 10 Ac. G.R.
Prop. Extend Lt. & Rt.
W/24" RF-1

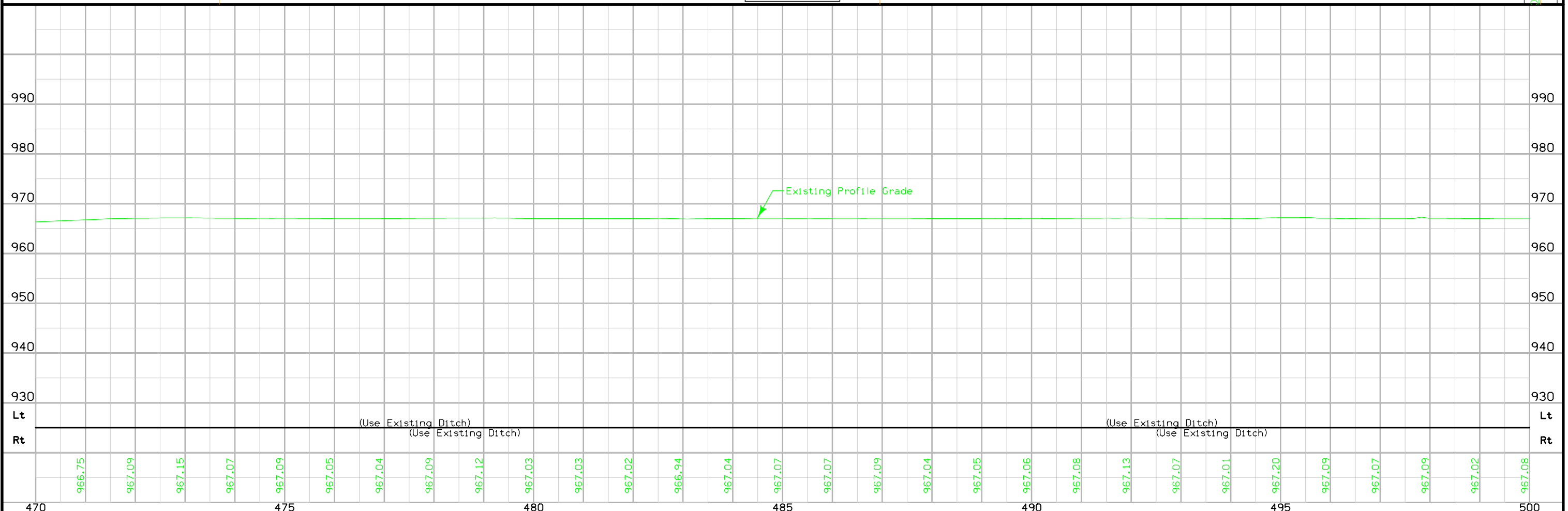
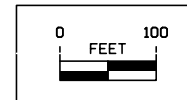
Sta. 480+54
DA = 7 Ac. G.R.
Prop. Extend Lt. & Rt.
W/24" RF-1

Sta. 483+12
DA = 18 Ac. G.R.
Prop. Extend Lt. & Rt.
W/30" RF-1

PLEASANT TWP.
T-79N R-15W
SEC. 25

Sta. 494+56
DA = 18 Ac. G.R.
Prop. Extend Lt. & Rt.
W/24" RF-1

460th Ave.
Co. Rd. F46



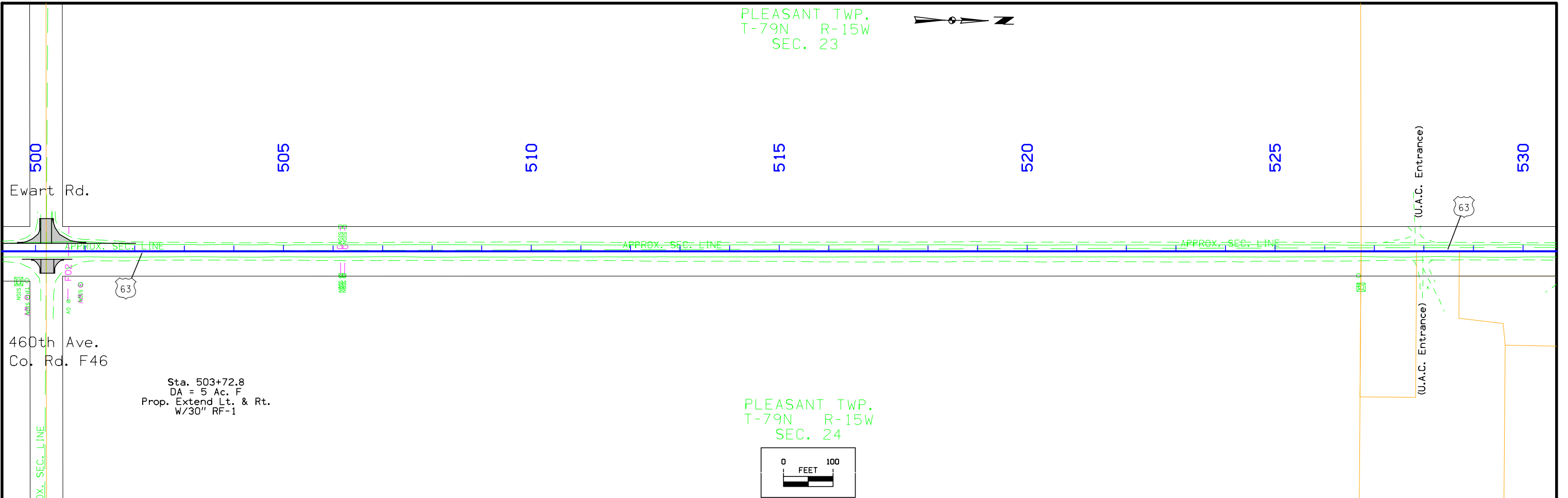
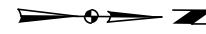
(Use Existing Ditch)

(Use Existing Ditch)

966.75 967.09 967.15 967.07 967.09 967.05 967.04 967.09 967.12 967.03 967.03 967.02 966.94 967.04 967.07 967.07 967.09 967.04 967.05 967.06 967.08 967.13 967.07 967.01 967.20 967.09 967.07 967.09 967.02 967.08

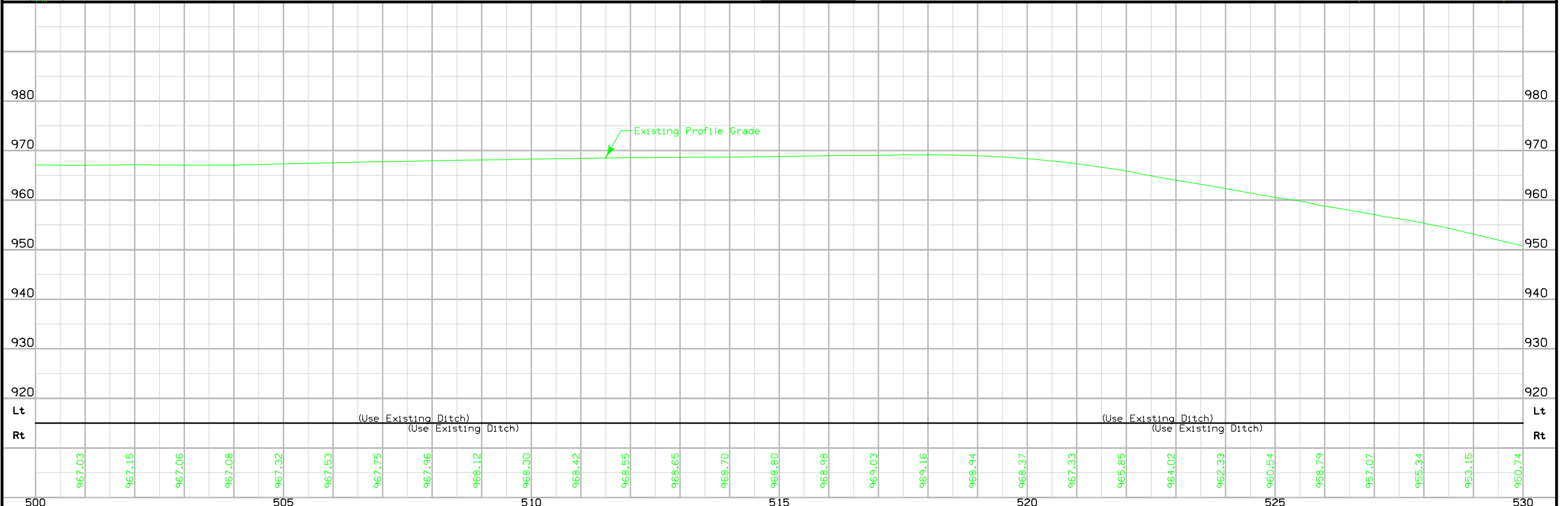
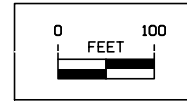
470 475 480 485 490 495 500

PLEASANT TWP.
T-79N R-15W
SEC. 23

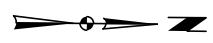


Sta. 503+72.8
DA = 5 Ac. F
Prop. Extend Lt. & Rt.
W/30" RF-1

PLEASANT TWP.
T-79N R-15W
SEC. 24



For Snow Borrow Cross Sections
Refer to Sheets No. X.1 - X.6
For Right of Way Information
Refer to Sheet No. H.8

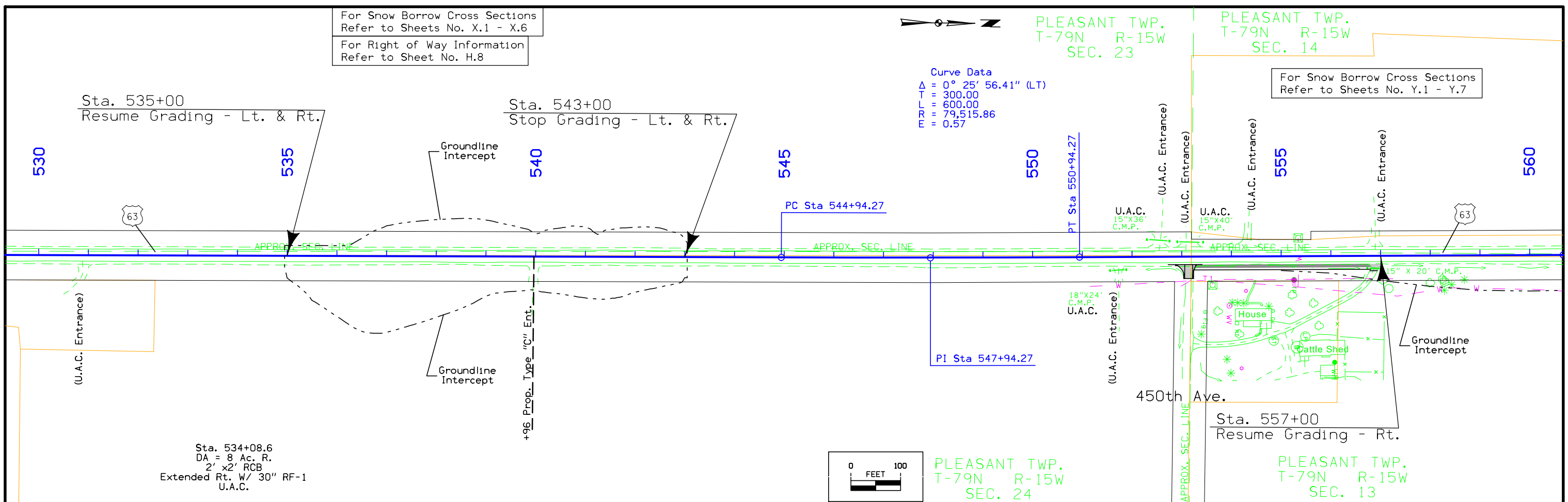


PLEASANT TWP.
T-79N R-15W
SEC. 23

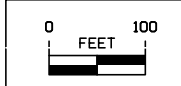
PLEASANT TWP.
T-79N R-15W
SEC. 14

For Snow Borrow Cross Sections
Refer to Sheets No. Y.1 - Y.7

Curve Data
Δ = 0° 25' 56.41" (LT)
T = 300.00
L = 600.00
R = 79,515.86
E = 0.57

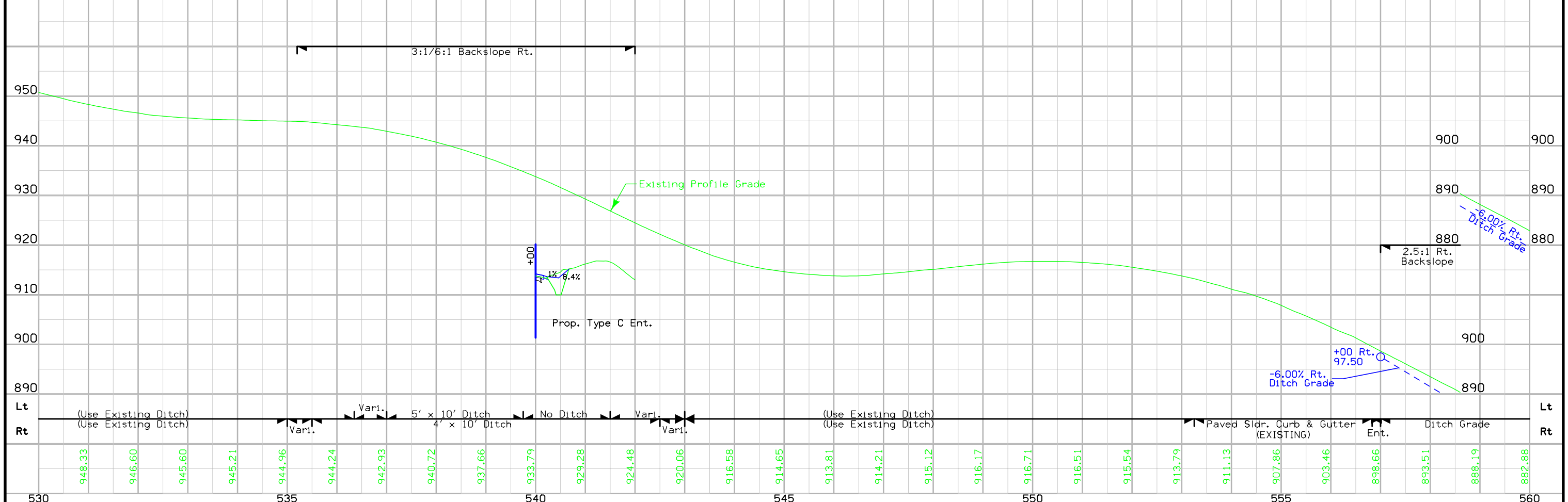


Sta. 534+08.6
DA = 8 Ac. R.
2' x 2' RCB
Extended Rt. W/ 30" RF-1
U.A.C.



PLEASANT TWP.
T-79N R-15W
SEC. 24

PLEASANT TWP.
T-79N R-15W
SEC. 13

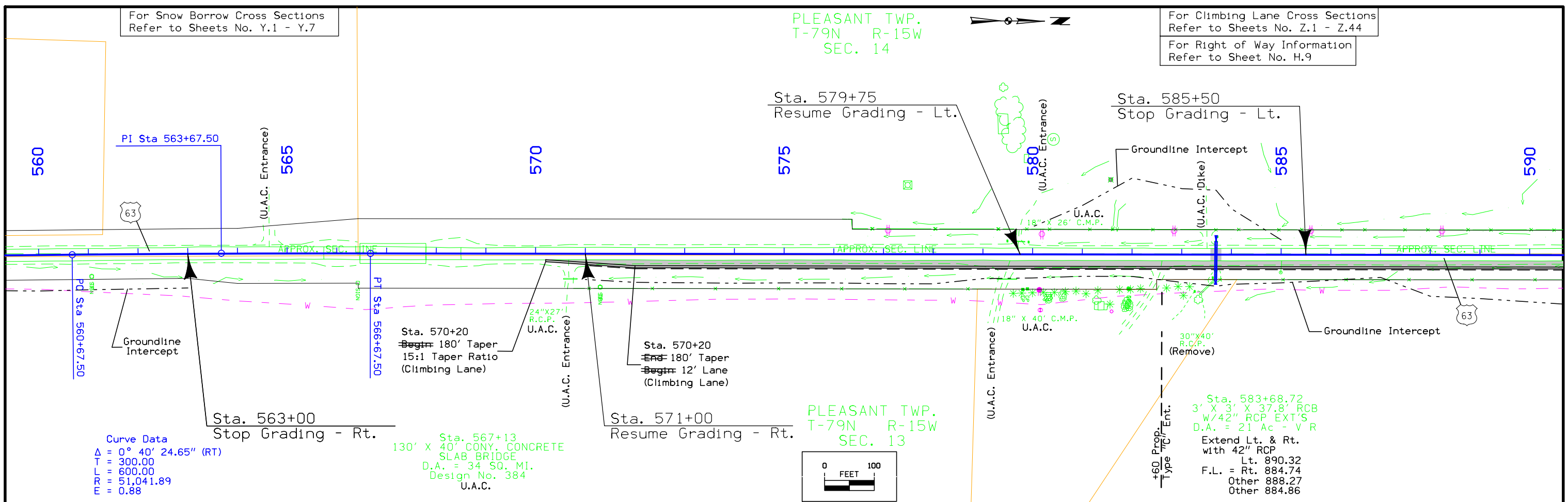


Lt	(Use Existing Ditch)	Varl.	5' x 10' Ditch	No Ditch	Varl.	(Use Existing Ditch)	(Use Existing Ditch)	Paved Slidr. Curb & Gutter (EXISTING)	Ent.	Ditch Grade	Lt																			
Rt	(Use Existing Ditch)	Varl.	4' x 10' Ditch		Varl.	(Use Existing Ditch)	(Use Existing Ditch)				Rt																			
	948.33	946.60	945.60	945.21	944.96	944.24	942.93	940.72	937.66	933.79	929.28	924.48	920.06	916.58	914.65	913.81	914.21	915.12	916.17	916.71	916.51	915.54	913.79	911.13	907.86	903.46	898.66	893.51	888.19	882.88
	530		535		540		545		550		555		560																	

For Snow Borrow Cross Sections Refer to Sheets No. Y.1 - Y.7

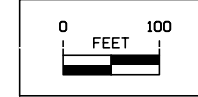
PLEASANT TWP.
T-79N R-15W
SEC. 14

For Climbing Lane Cross Sections Refer to Sheets No. Z.1 - Z.44
For Right of Way Information Refer to Sheet No. H.9

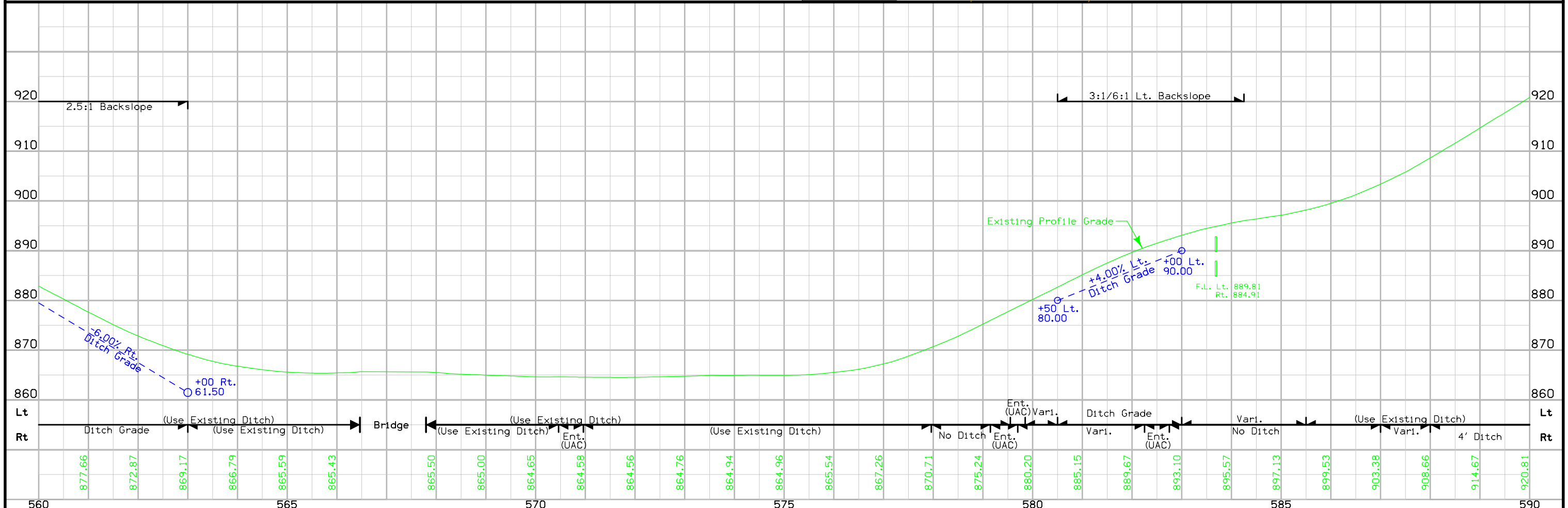


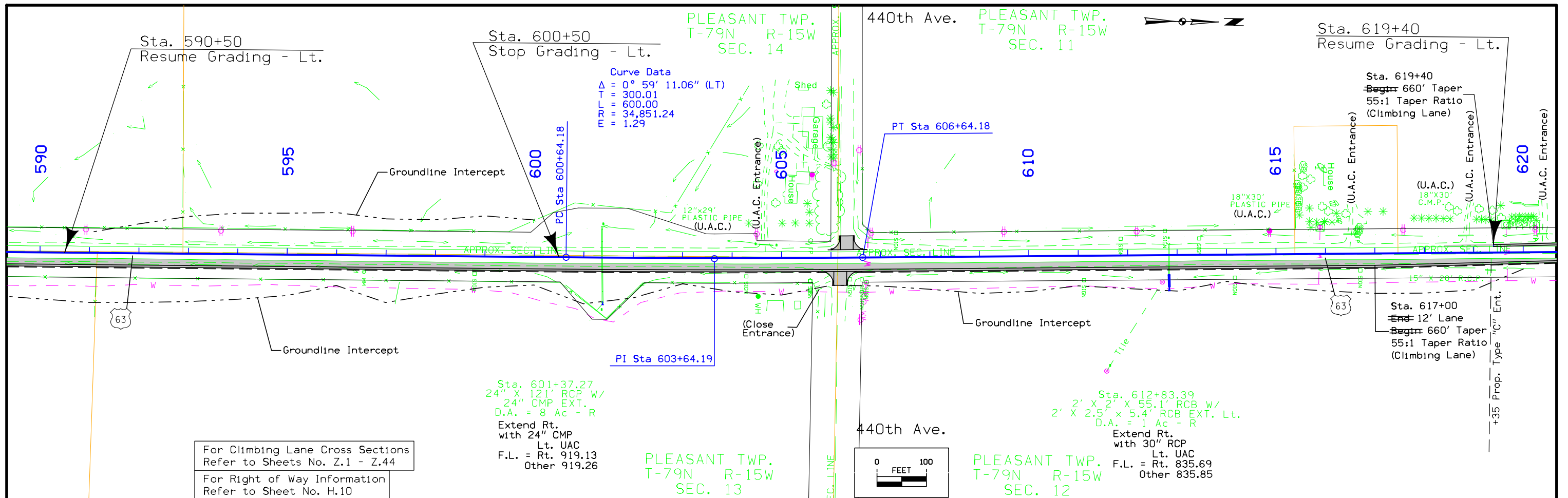
Curve Data
 $\Delta = 0^\circ 40' 24.65''$ (RT)
 $T = 300.00$
 $L = 600.00$
 $PR = 51,041.89$
 $E = 0.88$

Sta. 567+13
 130' X 40' CONY. CONCRETE
 SLAB BRIDGE
 D.A. = 34 SQ. MI.
 Design No. 384
 U.A.C.



Sta. 583+68.72
 3' X 3' X 37.8' RCB
 W/42" RCP EXT'S
 D.A. = 21 Ac - V R
 Extend Lt. & Rt.
 with 42" RCP
 Lt. 890.32
 F.L. = Rt. 884.74
 Other 888.27
 Other 884.86



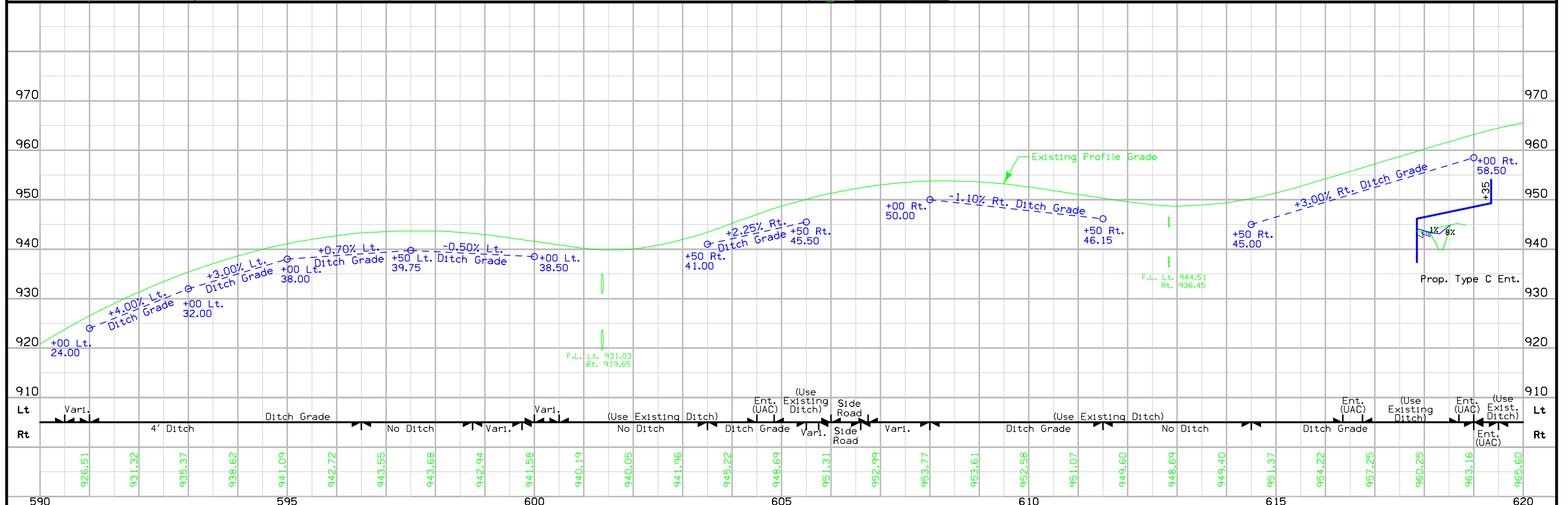
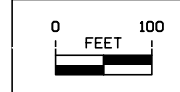


For Climbing Lane Cross Sections
Refer to Sheets No. Z.1 - Z.44

For Right of Way Information
Refer to Sheet No. H.10

Sta. 601+37.27
24" X 121' RCP W/
24" CMP EXT.
D.A. = 8 Ac - R
Extend Rt.
with 24" CMP
Lt. UAC
F.L. = Rt. 919.13
Other 919.26

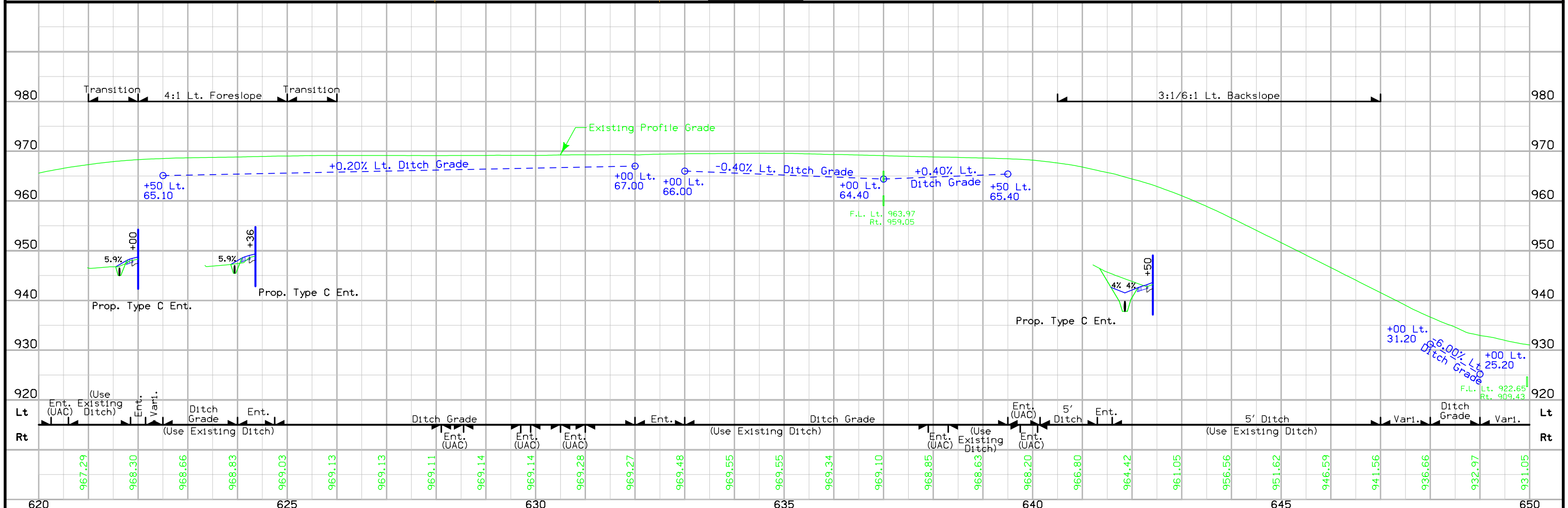
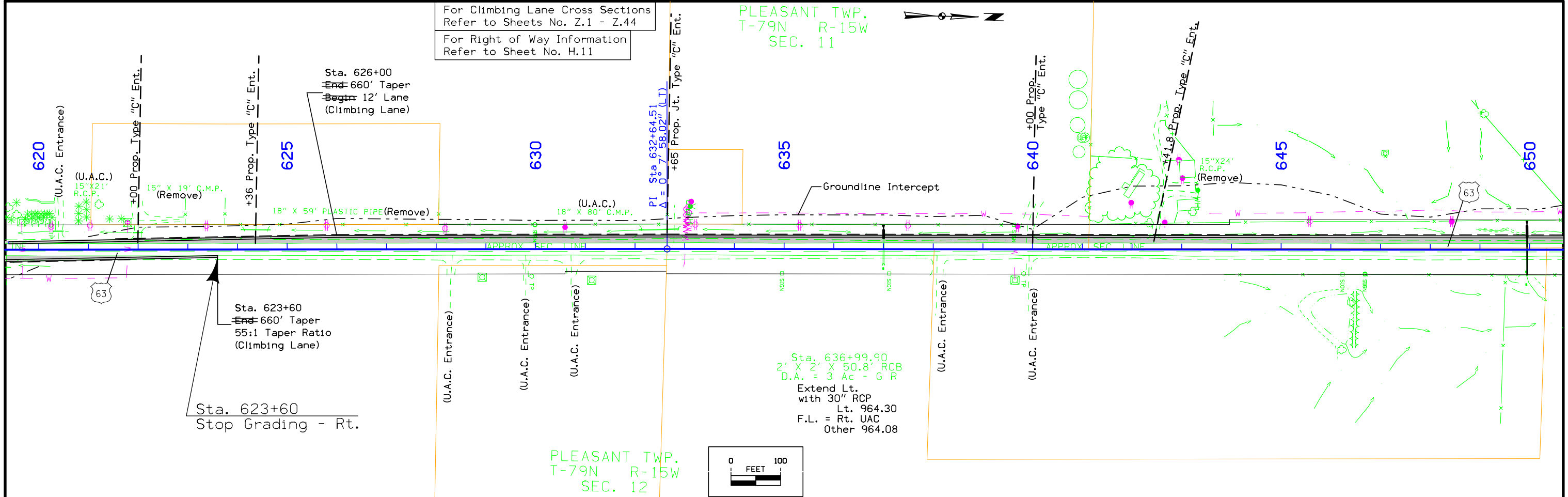
Sta. 612+83.39
2' X 2' X 55.1' RCB W/
2' X 2.5' X 5.4' RCB EXT. Lt.
D.A. = 1 Ac - R
Extend Rt.
with 30" RCP
Lt. UAC
F.L. = Rt. 835.69
Other 835.85



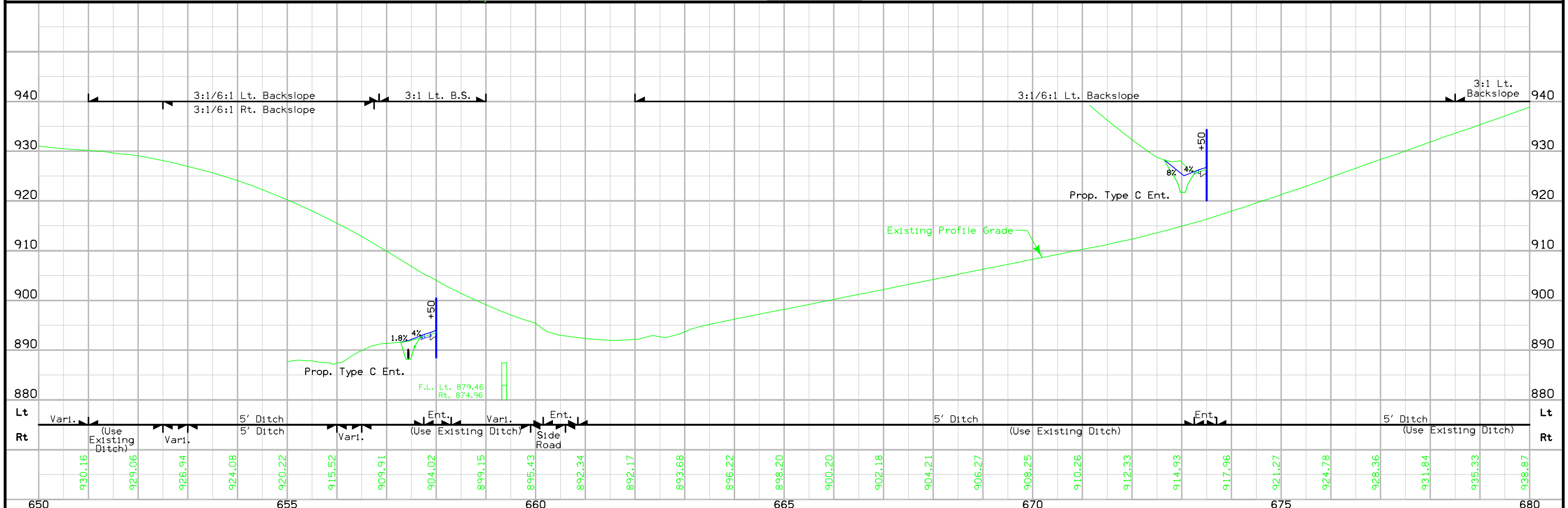
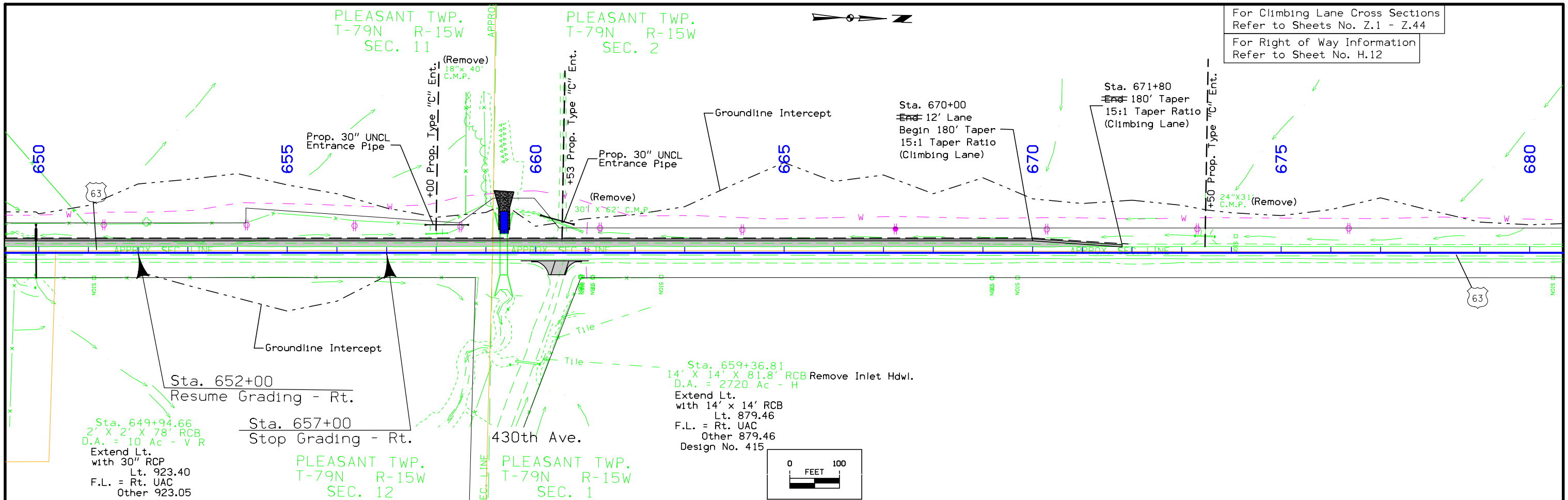
FILE NO.	ENGLISH	DESIGN TEAM	Tony Gustafson\Gary Mackey	POWESHIEK COUNTY	PROJECT NUMBER	NHSN-63-4(43)--2R-79	SHEET NUMBER	D.11
----------	---------	-------------	----------------------------	------------------	----------------	----------------------	--------------	------

For Climbing Lane Cross Sections
Refer to Sheets No. Z.1 - Z.44
For Right of Way Information
Refer to Sheet No. H.11

PLEASANT TWP.
T-79N R-15W
SEC. 11



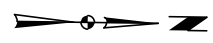
FILE NO.	ENGLISH	DESIGN TEAM	Tony Gustafson\Gary Mackey	POWESHIEK COUNTY	PROJECT NUMBER	NHSN-63-4(43)--2R-79	SHEET NUMBER	D.12
----------	---------	-------------	----------------------------	------------------	----------------	----------------------	--------------	------



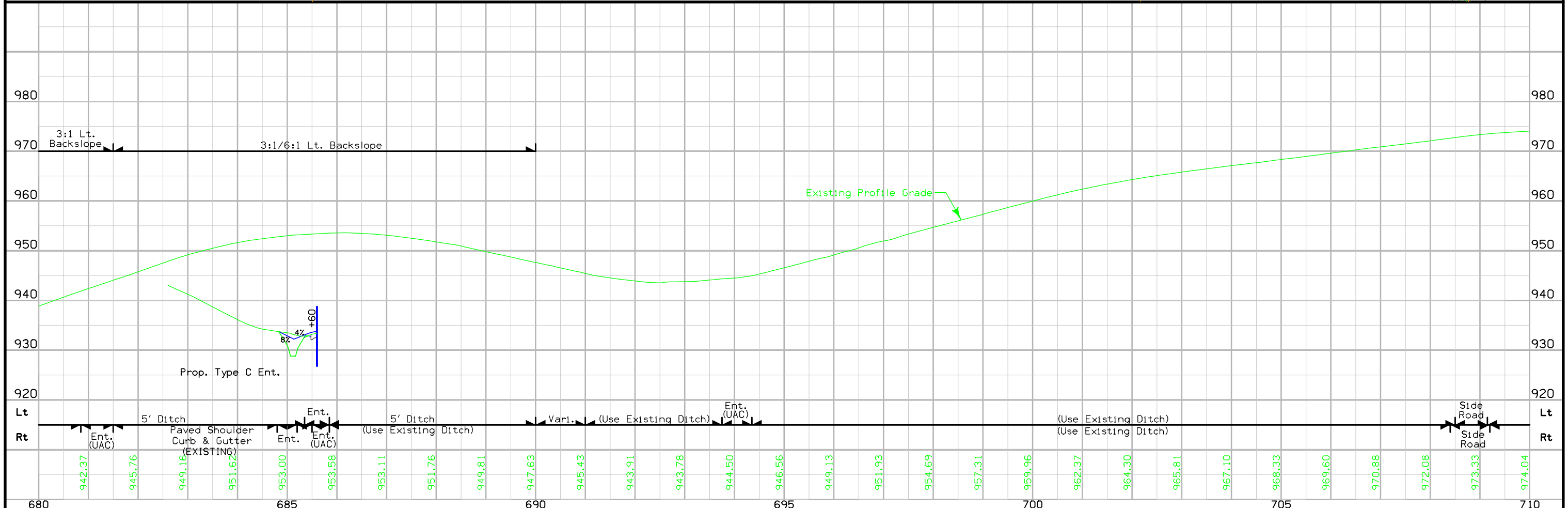
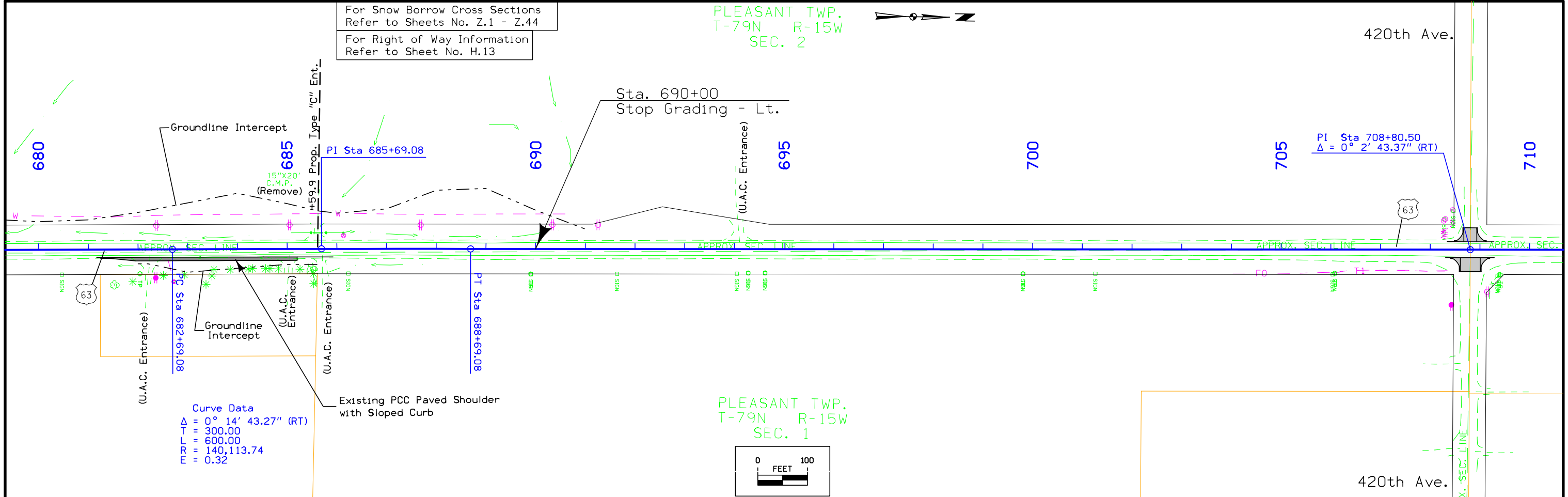
FILE NO.	ENGLISH	DESIGN TEAM	Tony Gustafson\Gary Mackey	POWESHIEK COUNTY	PROJECT NUMBER	NHSN-63-4(43)--2R-79	SHEET NUMBER	D.13
----------	---------	-------------	----------------------------	------------------	----------------	----------------------	--------------	------

For Snow Borrow Cross Sections
Refer to Sheets No. Z.1 - Z.44
For Right of Way Information
Refer to Sheet No. H.13

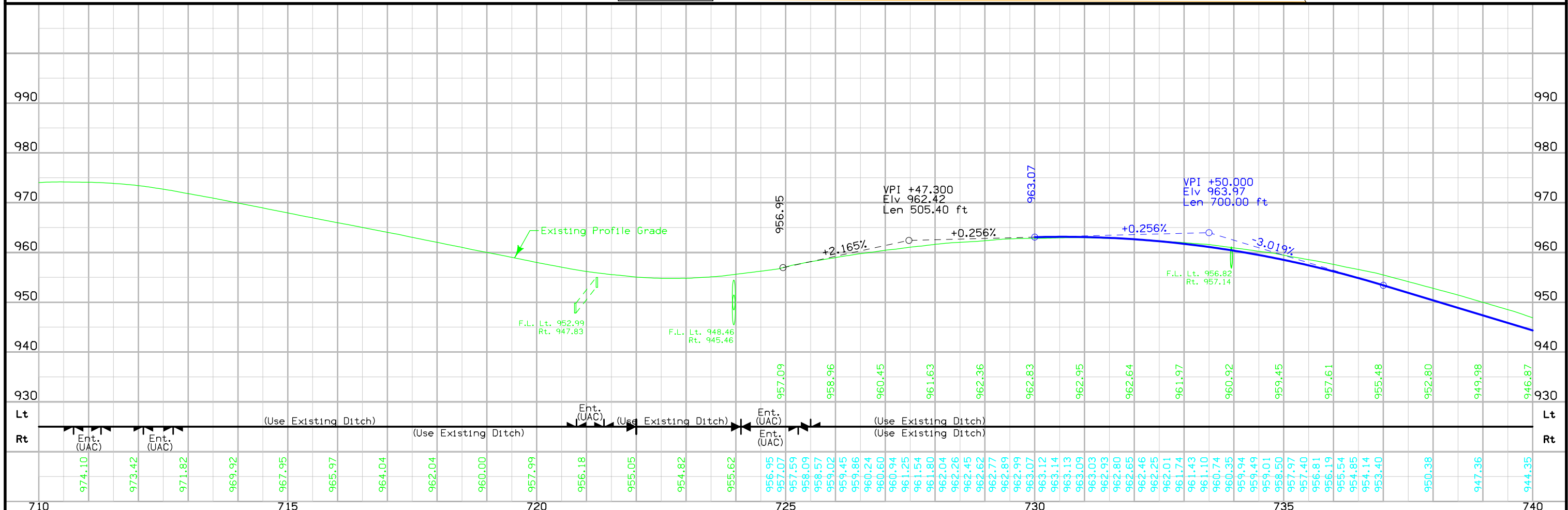
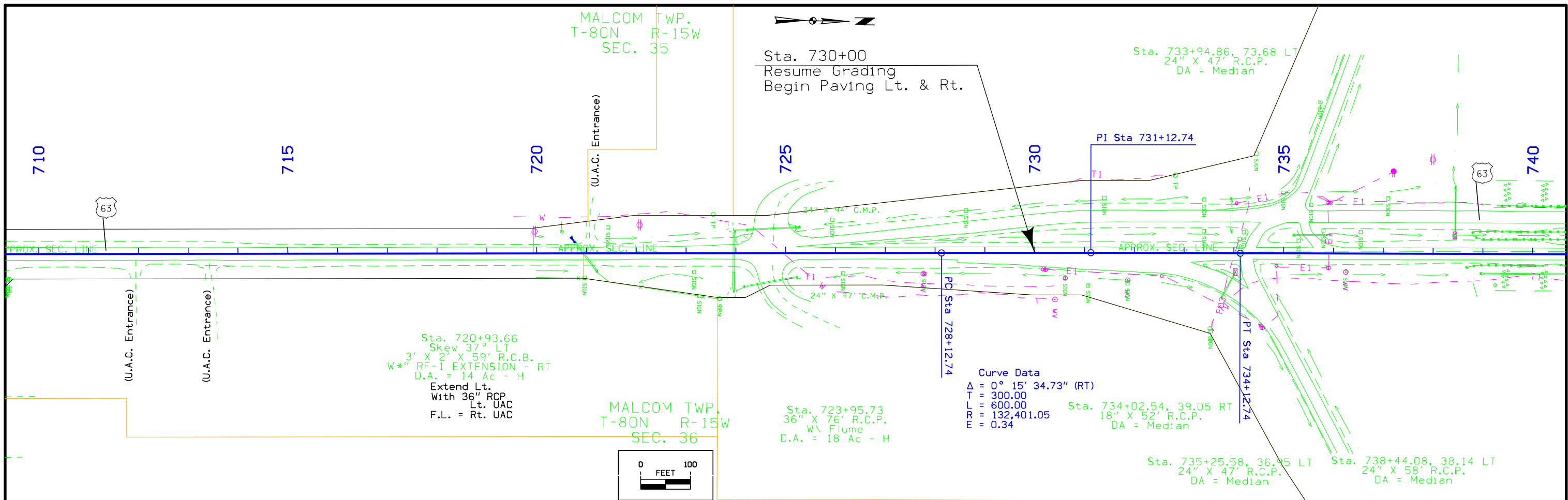
PLEASANT TWP.
T-79N R-15W
SEC. 2



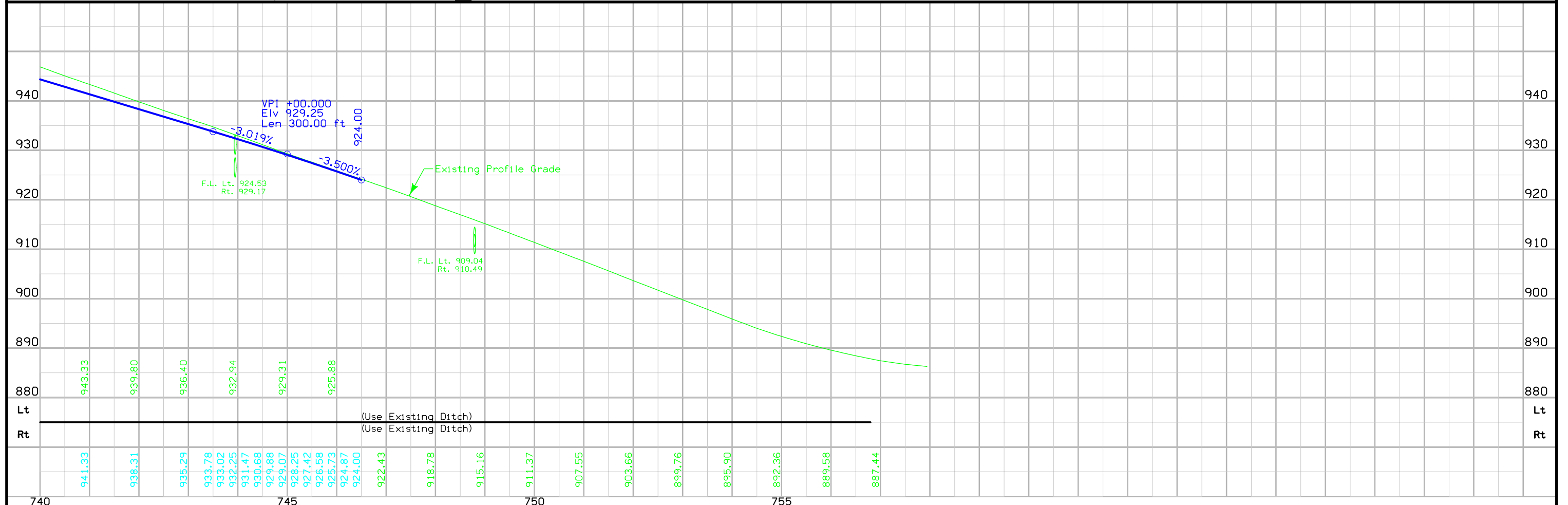
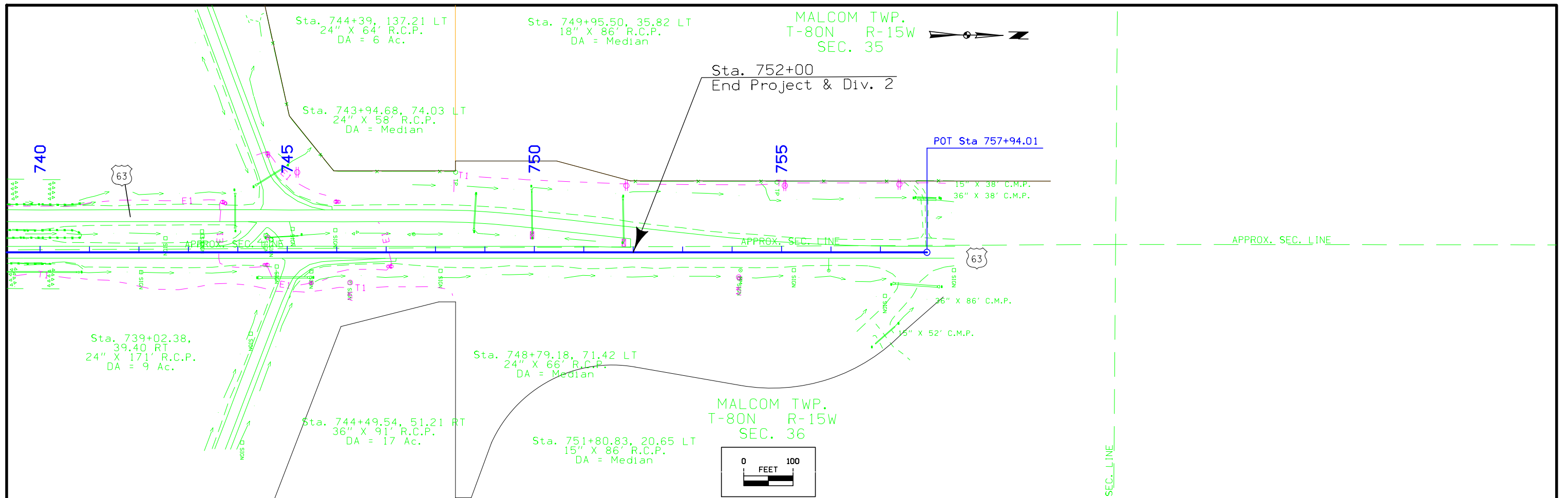
420th Ave.



FILE NO.	ENGLISH	DESIGN TEAM	Tony Gustafson\Gary Mackey	POWESHIEK COUNTY	PROJECT NUMBER	NHSN-63-4(43)--2R-79	SHEET NUMBER	D.14
----------	---------	-------------	----------------------------	------------------	----------------	----------------------	--------------	------



FILE NO.	ENGLISH	DESIGN TEAM	Tony Gustafson\Gary Mackey	POWESHIEK COUNTY	PROJECT NUMBER	NHSN-63-4(43)--2R-79	SHEET NUMBER	D.15
----------	---------	-------------	----------------------------	------------------	----------------	----------------------	--------------	------



Survey Information

General Information

Measurement units for this survey are US survey feet. This survey is for proposed pavement overlay and passing lanes on US 63 from the town of Montezuma to just South of I-80 interchange. This project was surveyed with the intent that no additional aerial survey information would be added.

Vertical Control

Vertical datum for this survey is NAVD88 (Computed using Geoid12A). GRS80 Ellipsoidal Height was computed at project Pt. 79002, by averaging two 6 minutes observations with appropriate time spans between from nearby Iowa RTN reference stations. The vertical standard deviation of these observations was less than 0.02 ft. at 95% confidence level (2 sigma).

Horizontal Control

The project coordinate system is modified Iowa State Plane South Zone (U.S. Survey Feet). Pt. 79002 with state plane and project coordinates = 600809.226 N, 1899454.167 E, 914.924 Elev. was used as a common point from which project coordinates are scaled using the 1/Combined Scale Factor = 1.00006035236. The 1/Combined Scale Factor will be used for GNSS stakeout and location to survey in the Project Coordinate system. A scale factor of 1 should be used with total station stakeout and location.

Horizontal datum is NAD83 (2011) for Epoch 2010.00. Coordinates were determined by averaging 2 6 minutes laRTN observations with appropriate time spans between. The horizontal standard deviation of these observations was less than 0.02 ft. at 95% confidence level (2 sigma).

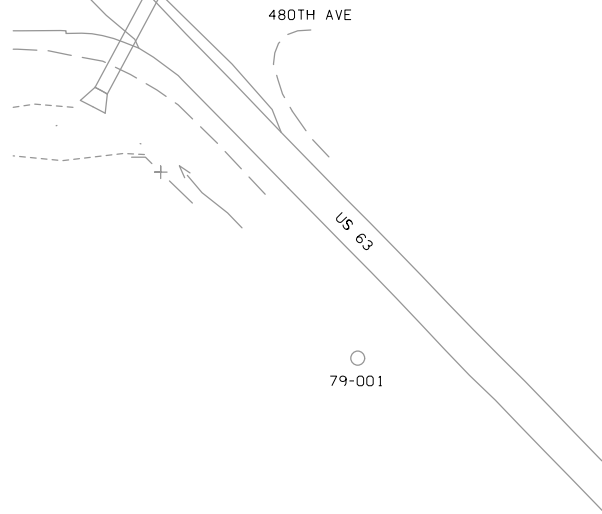
Alignment Information

The horizontal alignment for this survey was provided by District 1. ROW063 = SUR063

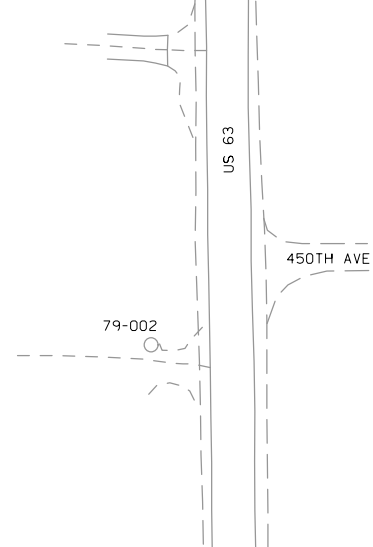
VERTICAL CONTROL

Point	North	East	Elevation	Station	Offset	Feature	Description
M79001	622089.5240	1899211.8040	885.7850	Off Chain	Off Chain	CP	CP M79001 FND FENO TYPE MONUMENT FROM NORTH PROJECT
519	621706.8340	1899229.8470	889.0790	Off Chain	Off Chain	BM	BM519 X NW HAND RAIL BRIDGE US-63
500	581635.5150	1905117.2190	946.2520	338+85.46	70.2912	BM	BM500 CUT X ON BALL ROW RAIL
501	583212.4980	1903526.7070	875.8000	361+24.98	36.6224	BM	BM501 CUT X ON INLET HDWL 4 X 4 RCB
79001	584745.8530	1901886.5710	890.8890	383+68.03	-63.0273	CP	SET FENO TYPE MONUMENT
502	585050.3750	1901762.2160	876.8520	386+72.65	61.0991	BM	BM502 IDOT BUTTON ON INLET HDWL 6 X 8 RCB
503	587123.7280	1899753.4280	915.8870	415+62.44	-24.2962	BM	BM503 CUT X TOP INLET APRON 30 INCH RCP
504	589843.6850	1899595.7190	924.8090	443+00.70	23.7461	BM	BM504 IHC BUTTON TOP INLET HDWL 6 X 6 RCB
505	593107.0400	1899524.1150	965.8430	475+64.44	-27.2865	BM	BM505 CUT X INLET APRON 24 INCH RCP
506	595915.4830	1899506.1820	963.6320	503+72.94	-27.5166	BM	BM506 CUT X TOP INLET HDWL 2 X 2 RCB
507	598215.5070	1899568.5120	961.5130	526+72.53	49.3099	BM	BM507 X ON BALL ROW RAIL
508	599986.2850	1899530.9790	913.5950	544+43.51	22.9395	BM	BM508 X ON INLET HDWL 3 X 3 RCB
79002	600809.2260	1899454.1670	914.9240	552+67.27	-45.1160	CP	SET FENO TYPE MONUMENT
509	602319.1880	1899504.3120	868.3790	567+76.66	21.1268	BM	BM509 IHC BUTTON NE WING POST BRIDGE OVER ENGLISH RIVER
510	603911.4080	1899458.0590	893.6560	583+68.97	-21.7920	BM	BM510 CUT X TOP INLET APRON 42 INCH RCP
511	605678.8380	1899417.6920	933.3170	601+36.60	-58.3828	BM	BM511 CUT X ON TOP INLET APRON 24 INCH RCP
512	608807.6080	1899369.9200	969.6020	632+66.50	-49.7243	BM	BM512 X ON BALL ROW RAIL
513	610535.9550	1899364.3560	926.2490	649+94.69	-25.9215	BM	BM513 X ON INLET HDWL 2 X 2 RCB
514	611476.0760	1899335.9290	895.8750	659+35.16	-38.3710	BM	BM514 IDOT BUTTON INLET HDWL 10 X 8 RCB
515	614785.1260	1899279.9460	938.9210	692+44.52	-41.0152	BM	BM515 CUT X TOP APRON 60 INCH RCP
79003	616367.3210	1899355.5790	971.7710	708+25.62	54.7199	CP	SET FENO TYPE MONUMENT
516	617617.3450	1899263.8570	956.5060	720+76.69	-22.0554	BM	BM516 IHC BUTTON INLET HDWL 3 X 2 RCB
517	619465.3270	1899110.4640	970.0330	739+25.67	-157.1003	BM	BM517 IDOT BUTTON SW WING POST EAST BOUND I-80 BRIDGE OVER US-63
518	619578.9850	1899118.0220	970.6350	740+39.27	-148.7030	BM	BM518 IDOT BUTTON NW WING POST WEST BOUND I-80 BRIDGE OVER US-63

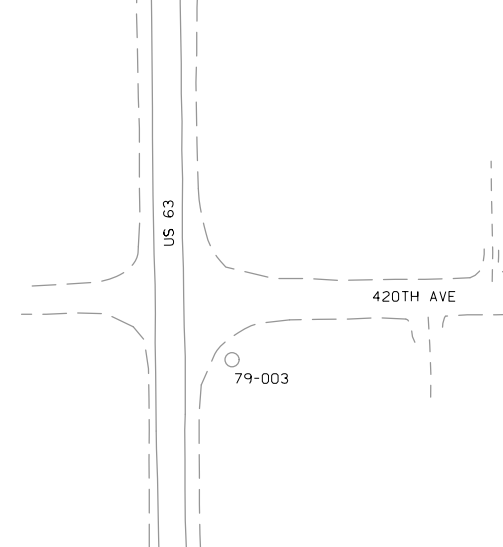
CP STA 383+67.91, Lt. 62.76'
CP No. 79-001, Set Feno Type Monument
N=584745.853, E=1901886.571

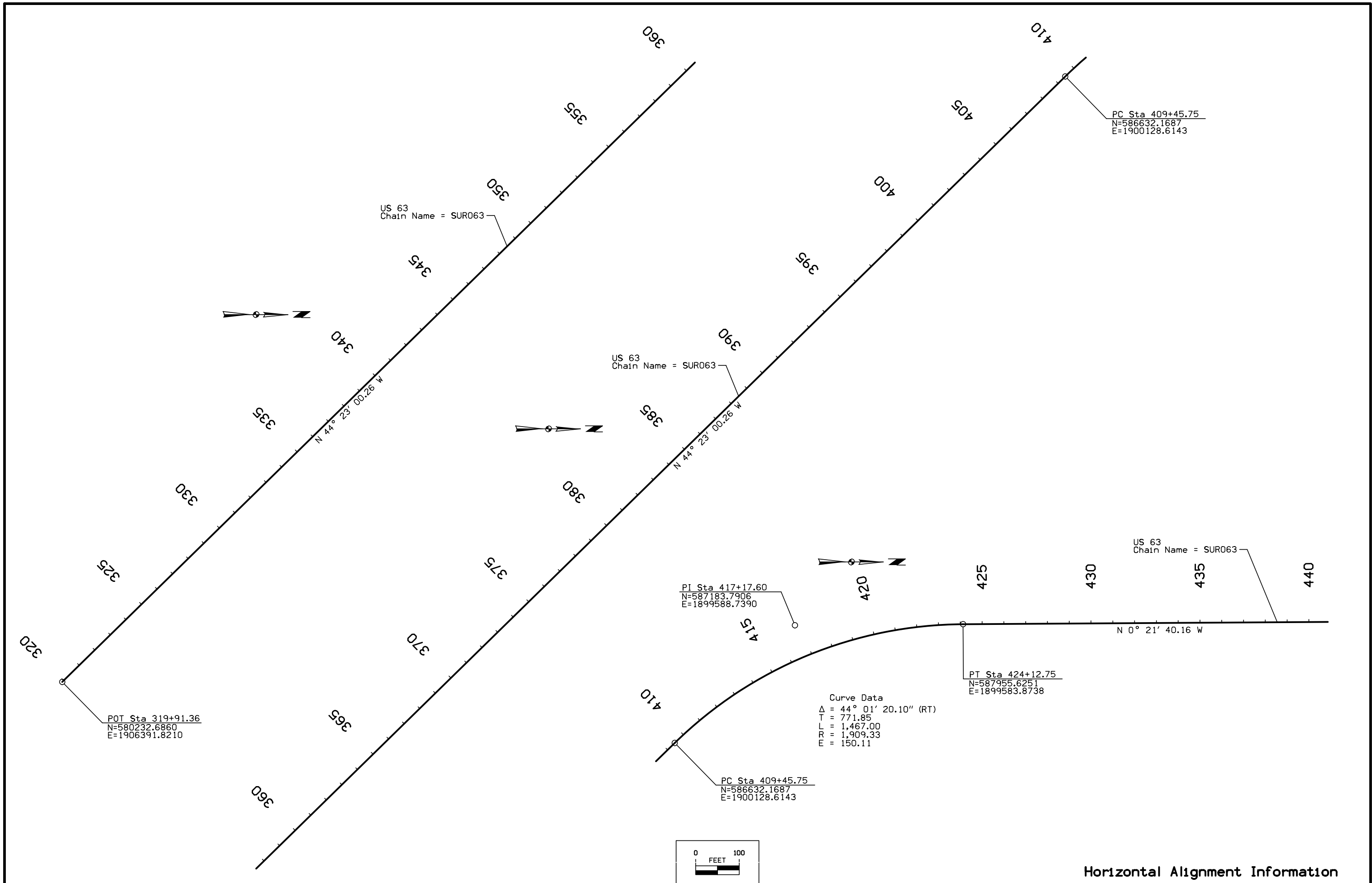


CP STA 552+67.27, Lt. 45.12'
CP No. 79-002, Set Feno Type Monument
N=600809.226, E=1899454.167

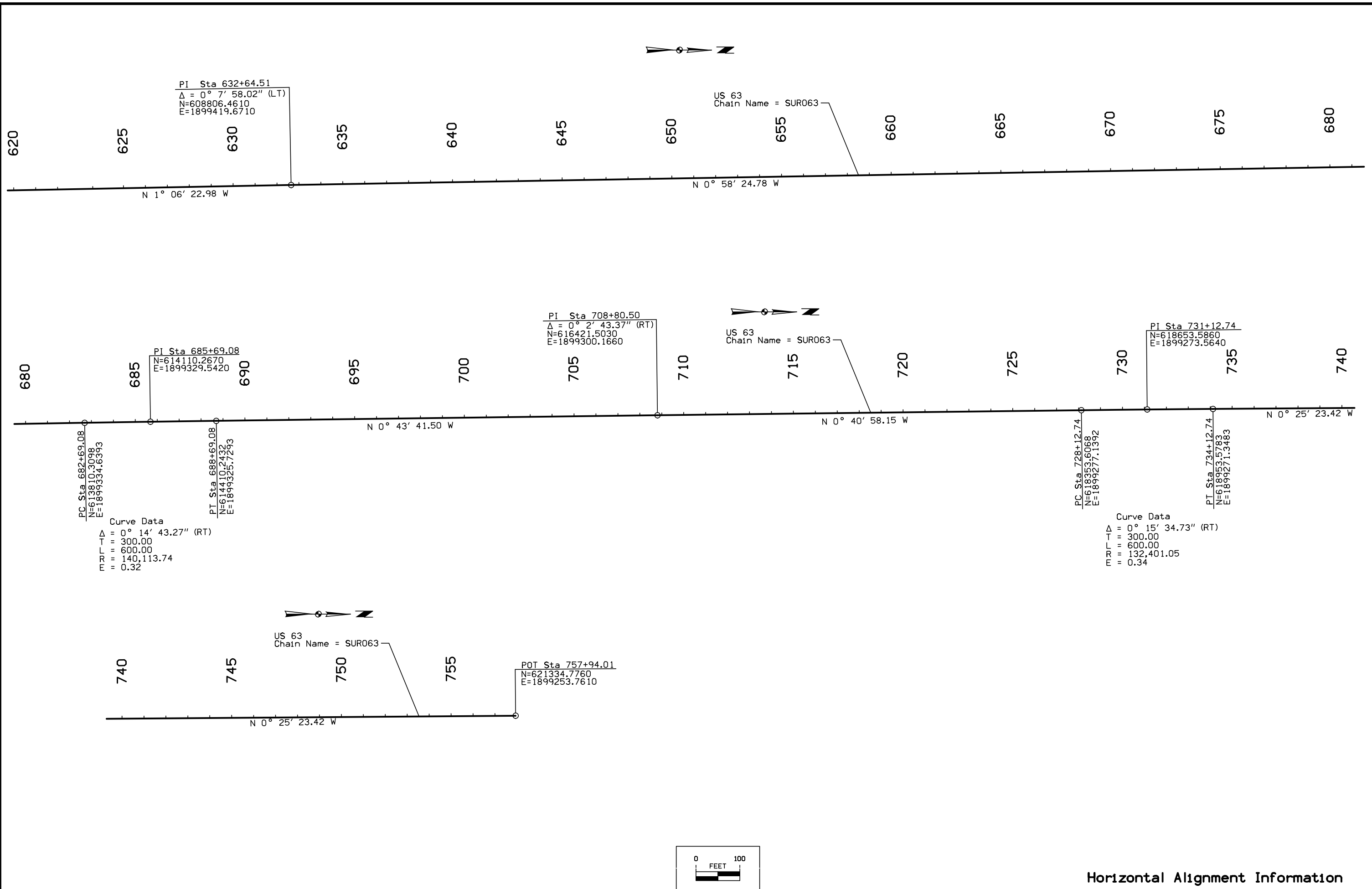


CP STA 708+25.61, Rt. 54.72'
CP No. 79-003, Set Feno Type Monument
N=616367.321, E=1899355.579



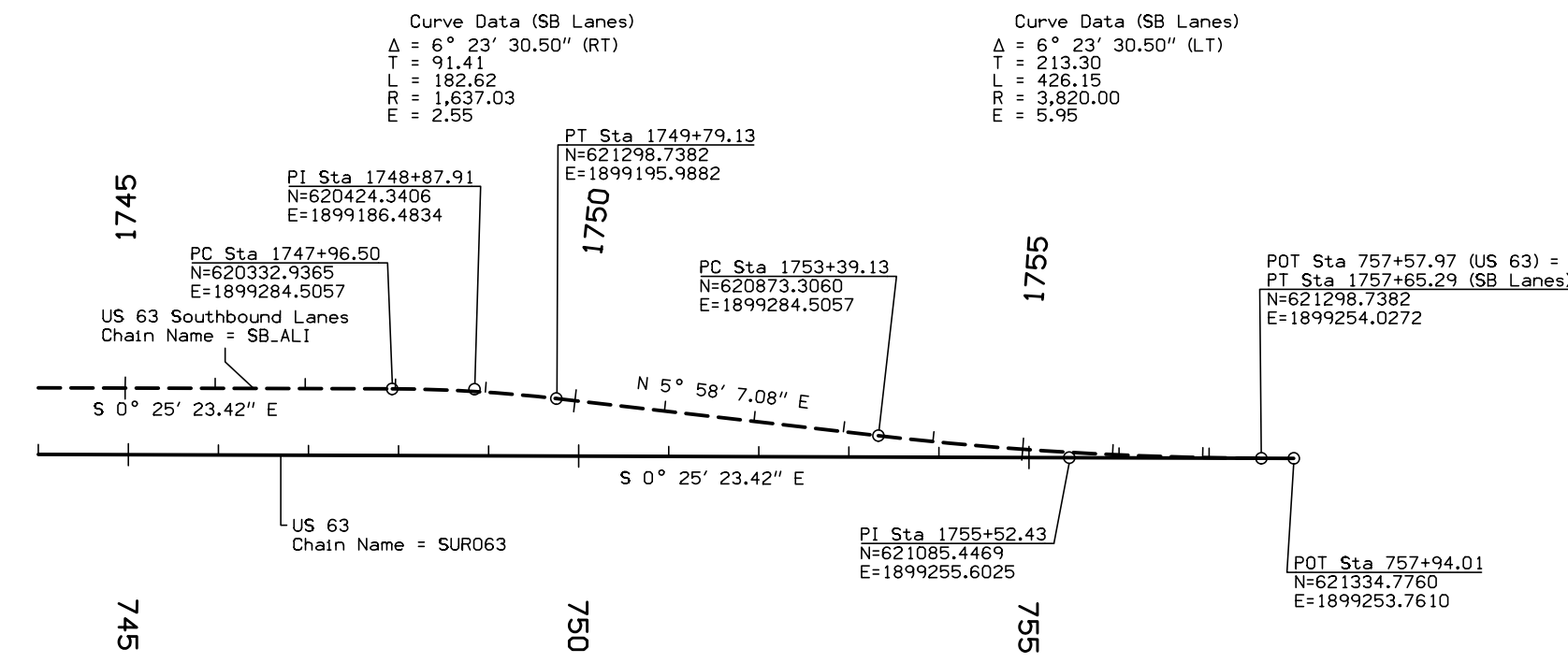
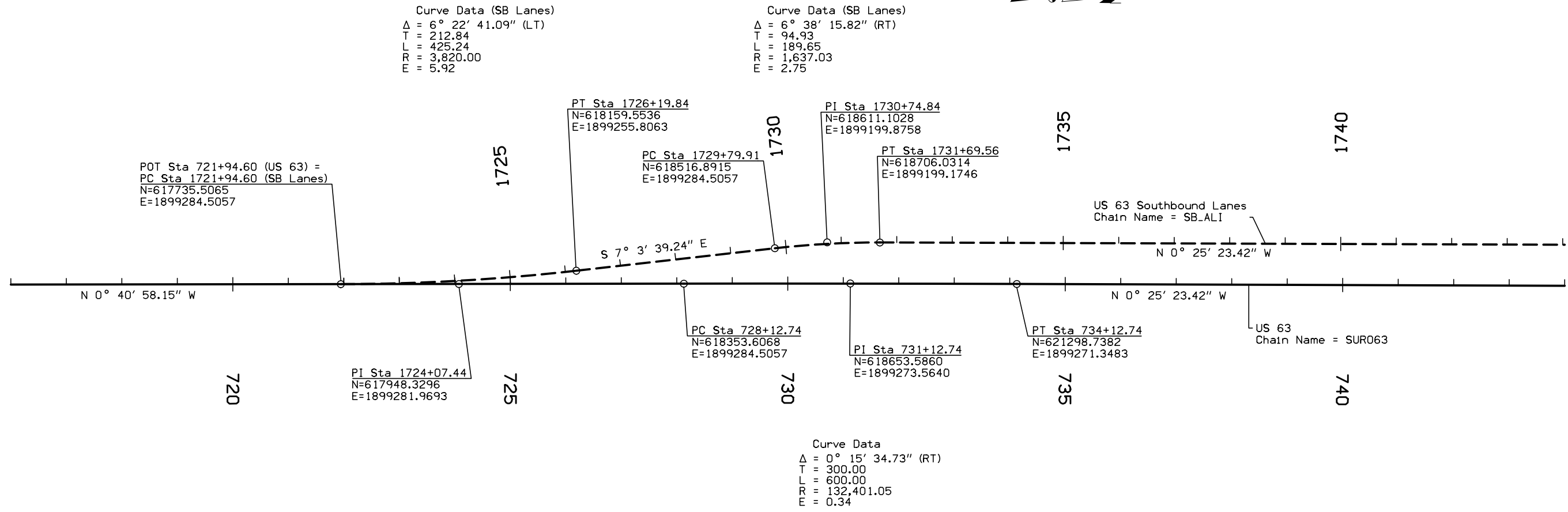


Horizontal Alignment Information

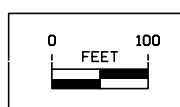


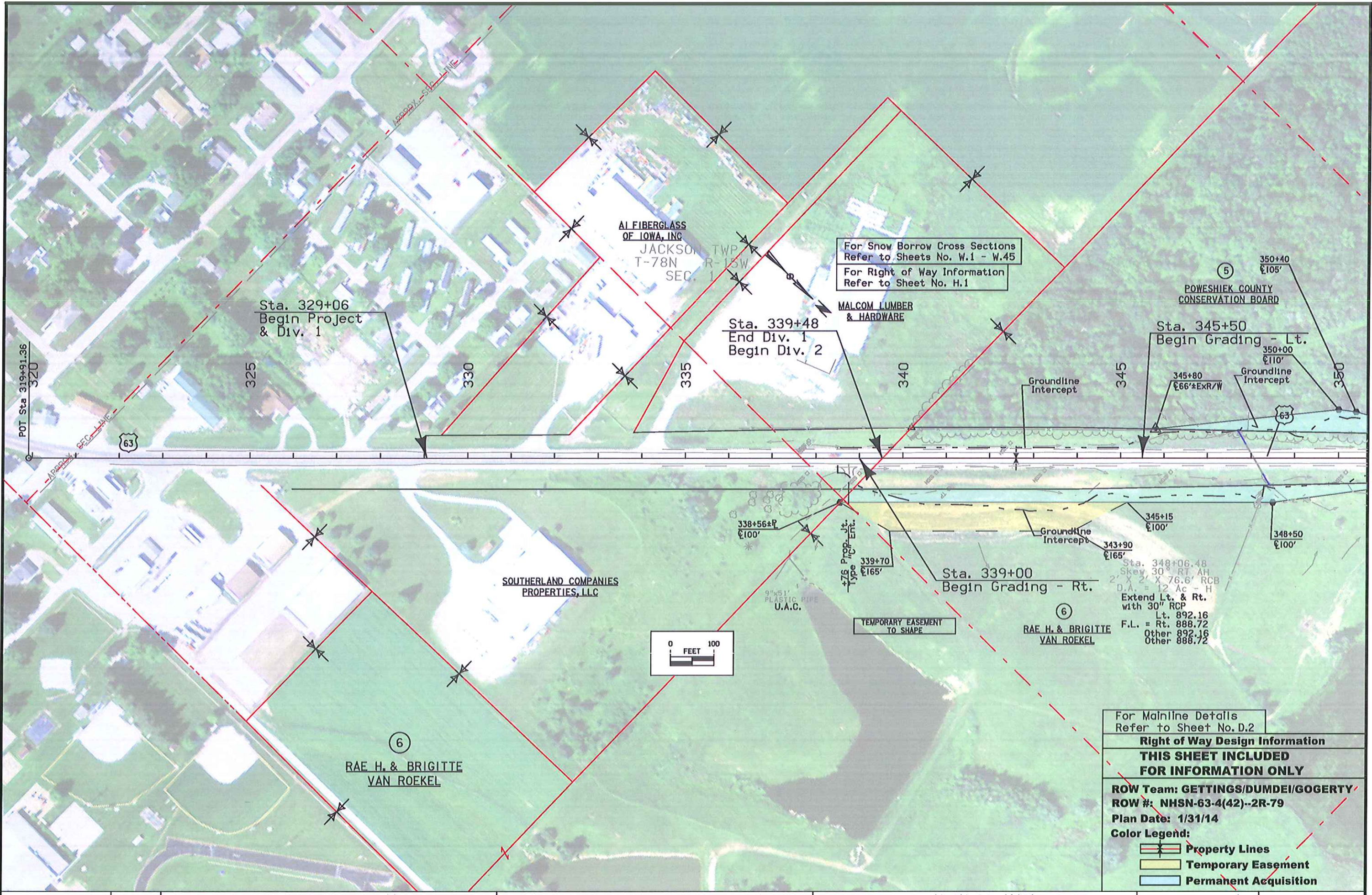
Horizontal Alignment Information

ENGLISH	IOWA DOT	DESIGN TEAM Tony Gustafson\Gary Mackey	POWESHIEK COUNTY	PROJECT NUMBER NHSN-63-4(43)--2R-79	SHEET NUMBER G.5
---------	----------	---	-------------------------	--	-------------------------



**Horizontal Alignment Information
 Southbound Lanes
 at I-80 Interchange**





For Snow Borrow Cross Sections
Refer to Sheets No. W.1 - W.45
For Right of Way Information
Refer to Sheet No. H.1

POWESHIEK COUNTY
CONSERVATION BOARD

Sta. 329+06
Begin Project
& Div. 1

Sta. 339+48
End Div. 1
Begin Div. 2

Sta. 345+50
Begin Grading - Lt.

Sta. 339+00
Begin Grading - Rt.

Sta. 348+06.48
Skey 30' RT. AH
2' X 2' X 76.6' RCB
D.A. = 12' Ac - H
Extend Lt. & Rt.
with 30" RCP
Lt. 892.16
F.L. = Rt. 888.72
Other 892.16
Other 888.72

For Mainline Details
Refer to Sheet No. D.2

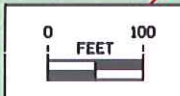
Right of Way Design Information

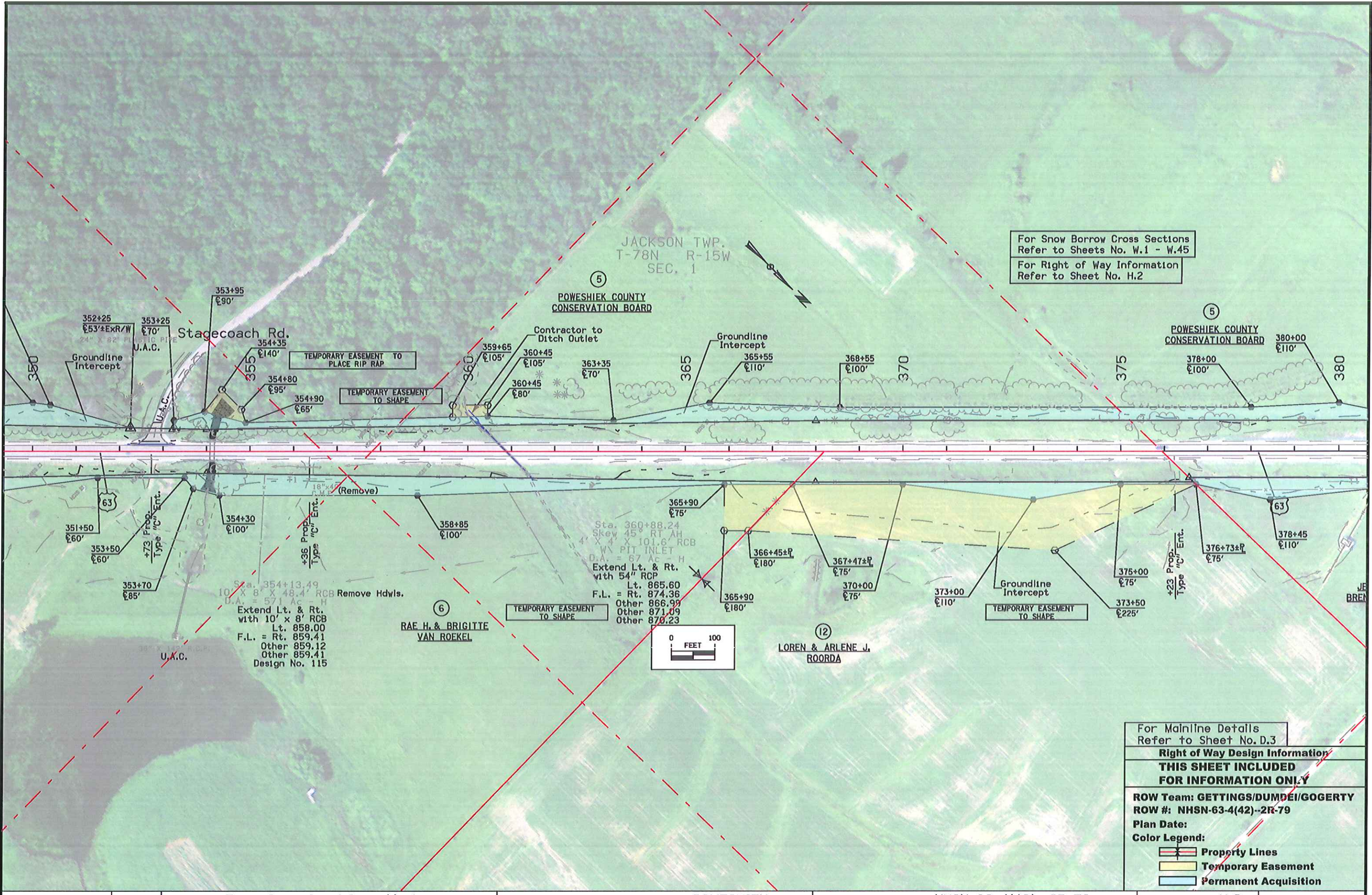
**THIS SHEET INCLUDED
FOR INFORMATION ONLY**

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: NHSN-63-4(42)--2R-79
Plan Date: 1/31/14

Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition





JACKSON TWP.
T-78N R-15W
SEC. 1

For Snow Borrow Cross Sections
Refer to Sheets No. W.1 - W.45
For Right of Way Information
Refer to Sheet No. H.2

POWESHIEK COUNTY
CONSERVATION BOARD

POWESHIEK COUNTY
CONSERVATION BOARD

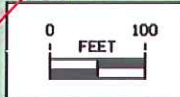
Stagecoach Rd.

Sta. 360+88.24
Skey 45° RT AH
X X X 101.6' RCB
PIT INLET
D.A. = 67' Ac - H
Extend Lt. & Rt.
with 54" RCP
Lt. 865.60
F.L. = Rt. 874.36
Other 866.99
Other 871.09
Other 876.23

Sta. 354+13.49
10' X 8' X 48.4' RCB Remove Hdwls.
U.A. = 571 Ac - H
Extend Lt. & Rt.
with 10' x 8' RCB
Lt. 858.00
F.L. = Rt. 859.41
Other 859.12
Other 859.41
Design No. 115

RAE H. & BRIGITTE
VAN ROEKEL

LOREN & ARLENE J.
ROORDA



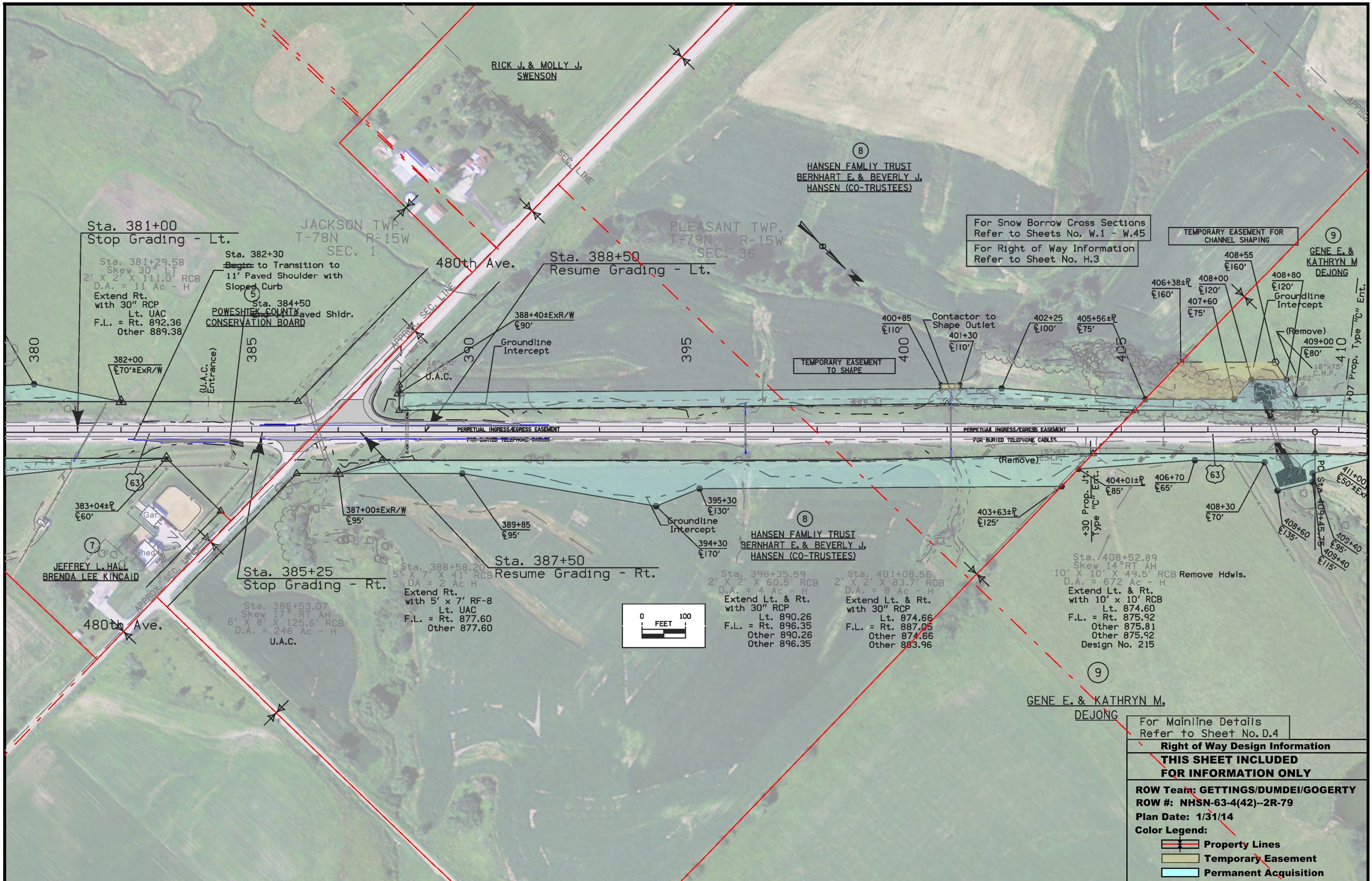
For Mainline Details
Refer to Sheet No. D.3

Right of Way Design Information

**THIS SHEET INCLUDED
FOR INFORMATION ONLY**

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: NHSN-63-4(42)--2R-79
Plan Date:
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition



For Snow Borrow Cross Sections
Refer to Sheets No. W.1 - W.45

For Right of Way Information
Refer to Sheet No. H.3

TEMPORARY EASEMENT FOR
CHANNEL SHAPING

GENE E. &
KATHRYN M.
DEJONG

TEMPORARY EASEMENT
TO SHAPE

HANSEN FAMILY TRUST
BERNHART E. & BEVERLY J.
HANSEN (CO-TRUSTEES)

GENE E. & KATHRYN M.
DEJONG

For Mainline Details
Refer to Sheet No. D.4

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: **GETTINGS/DUMDEI/GOGERTY**
ROW #: **NHSN-63-4(42)--2R-79**
Plan Date: **1/31/14**

Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition



For Snow Borrow Cross Sections
Refer to Sheets No. W.1 - W.45
For Right of Way Information
Refer to Sheet No. H.4

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

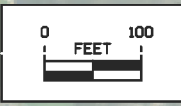
TEMPORARY EASEMENT TO SHAPE

TEMPORARY EASEMENT TO SHAPE

Sta. 415+63.57
2' X 2' X 56.7' RCB
W/ 30" X 6" RCP EXT.
D.A. = 11 Ac - V R
Extend Lt. & Rt.
with 30" RCP
Lt. 914.38
F.L. = Rt. 898.86
Other 913.18
Other 898.86
Other 901.97
Curve Data
Δ = 44° 01' 20.10" (RT)
T = 771.85
L = 1,467.00
R = 1,909.33
E = 150.11

Sta. 423+28.44
Skew 44° LT AH
10' X 12' X 86.2' CONC ARCH
D.A. = 504 Ac - V R
Remove Hdwls.
Extend Lt. & Rt.
with 10' x 12' RCB
Lt. 888.79
F.L. = Rt. 888.00
Other 888.79
Other 888.25
Design No. 315

Sta. 431+02.34
3' X 3' X 48.3' RCB
D.A. = 24 Ac - V R
Extend Lt. & Rt.
with 42" RCP
Lt. 896.68
F.L. = Rt. 908.89
Other 896.68
Other 902.89
Other 908.89

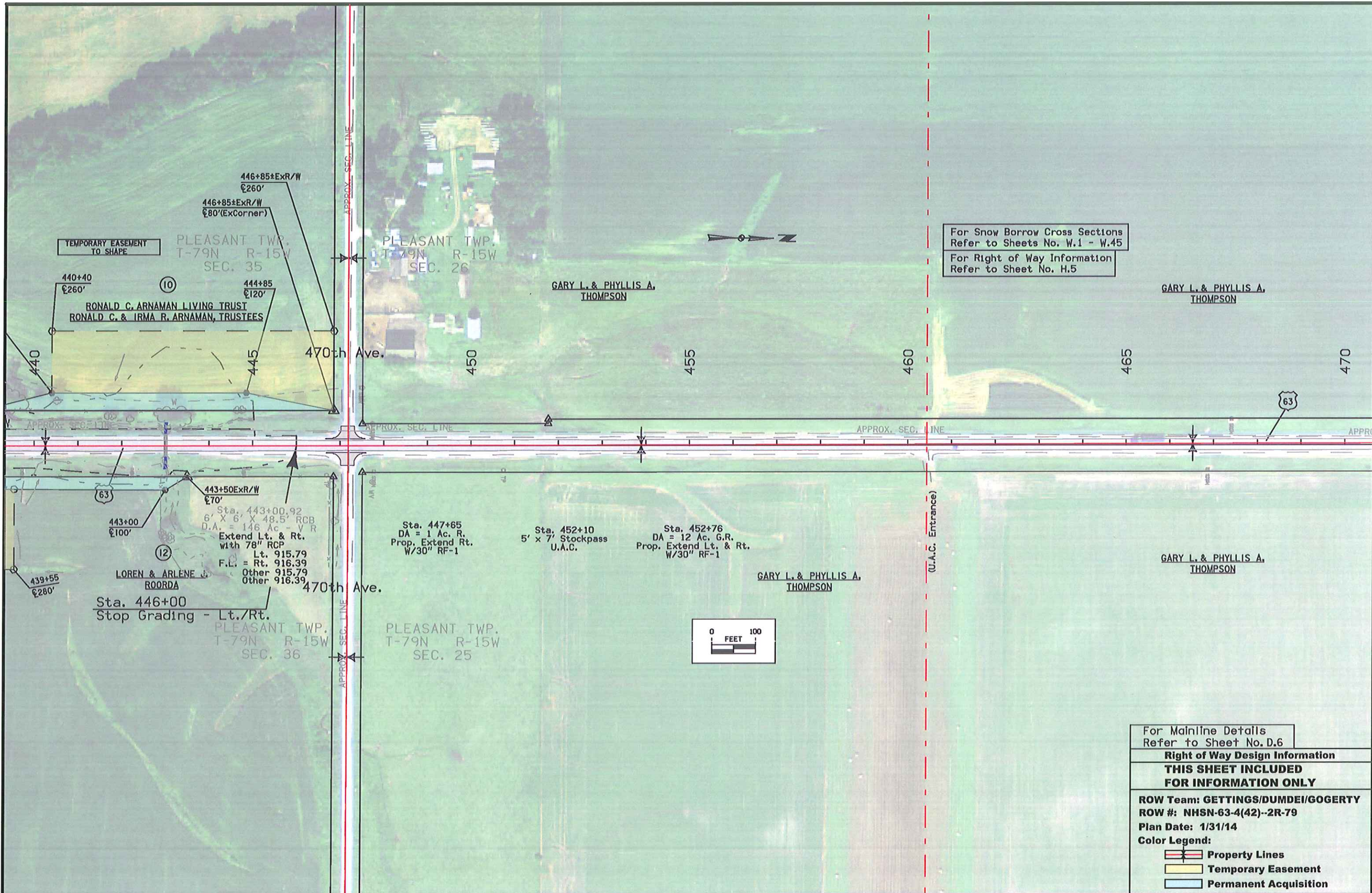


For Mainline Details
Refer to Sheet No. D.5

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: NHSN-63-4(42)--2R-79
Plan Date:

Color Legend:
 Property Lines
 Temporary Easement
 Permanent Acquisition



For Snow Borrow Cross Sections
Refer to Sheets No. W.1 - W.45
For Right of Way Information
Refer to Sheet No. H.5

For Mainline Details
Refer to Sheet No. D.6

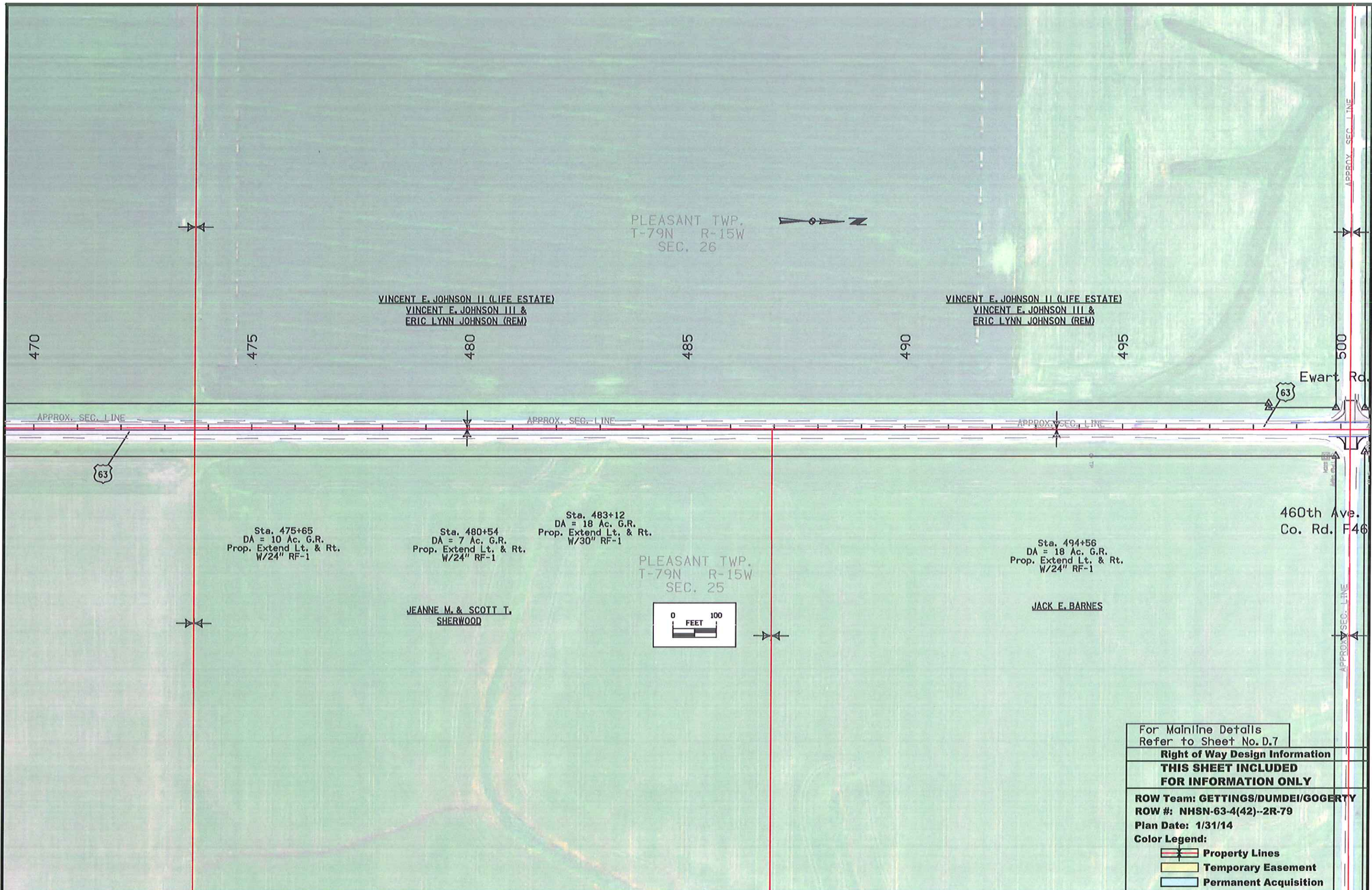
Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

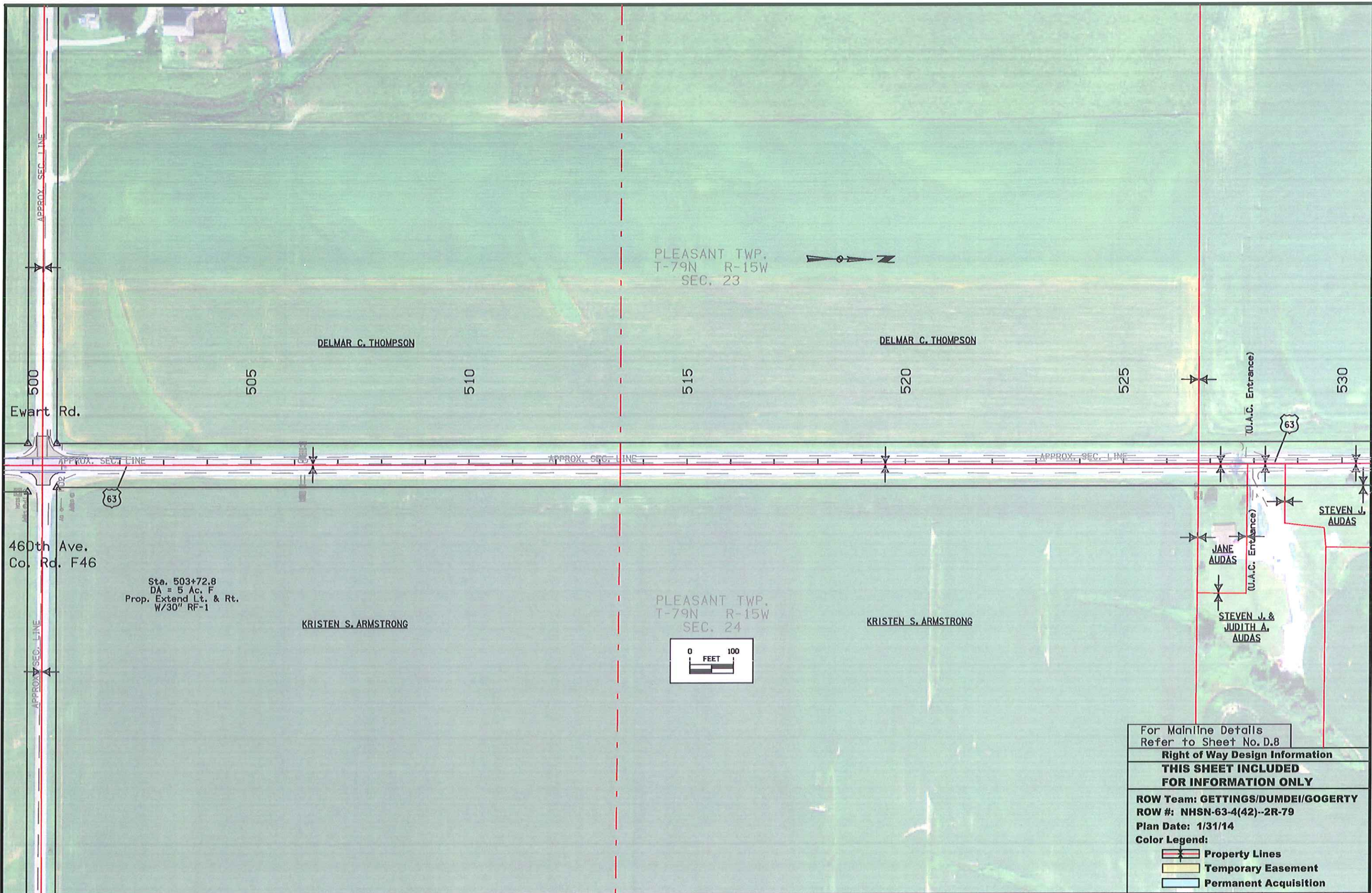
ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: NHSN-63-4(42)--2R-79
Plan Date: 1/31/14

Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition



For Mainline Details Refer to Sheet No. D.7
Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY
ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: NHSN-63-4(42)--2R-79
Plan Date: 1/31/14
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition



For Mainline Details
Refer to Sheet No. D.8

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: NHSN-63-4(42)--2R-79
Plan Date: 1/31/14

Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

For Snow Borrow Cross Sections
Refer to Sheets No. X.1 - X.6
For Right of Way Information
Refer to Sheet No. H.8

(13)
JANICE K. PRICE LIVING TRUST
JANICE K. PRICE (TRUSTEE)
WILLIAM J. PRICE (TRUSTEE)



PLEASANT TWP.
T-79N R-15W
SEC. 23

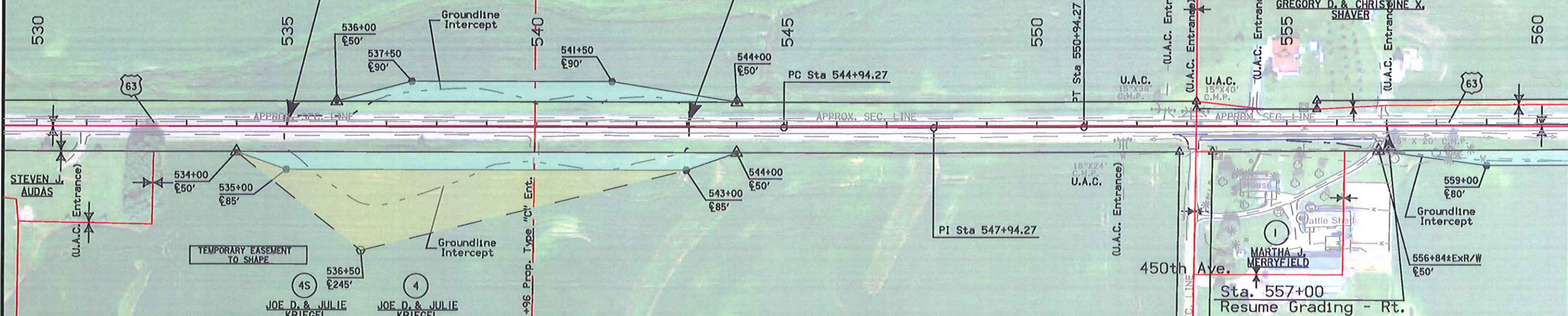
PLEASANT TWP.
T-79N R-15W
SEC. 14

For Snow Borrow Cross Sections
Refer to Sheets No. Y.1 - Y.7

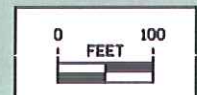
Curve Data
Δ = 0° 25' 56.41" (LT)
T = 300.00
L = 600.00
R = 79,515.86
E = 0.57

Sta. 535+00
Resume Grading - Lt. & Rt.

Sta. 543+00
Stop Grading - Lt. & Rt.



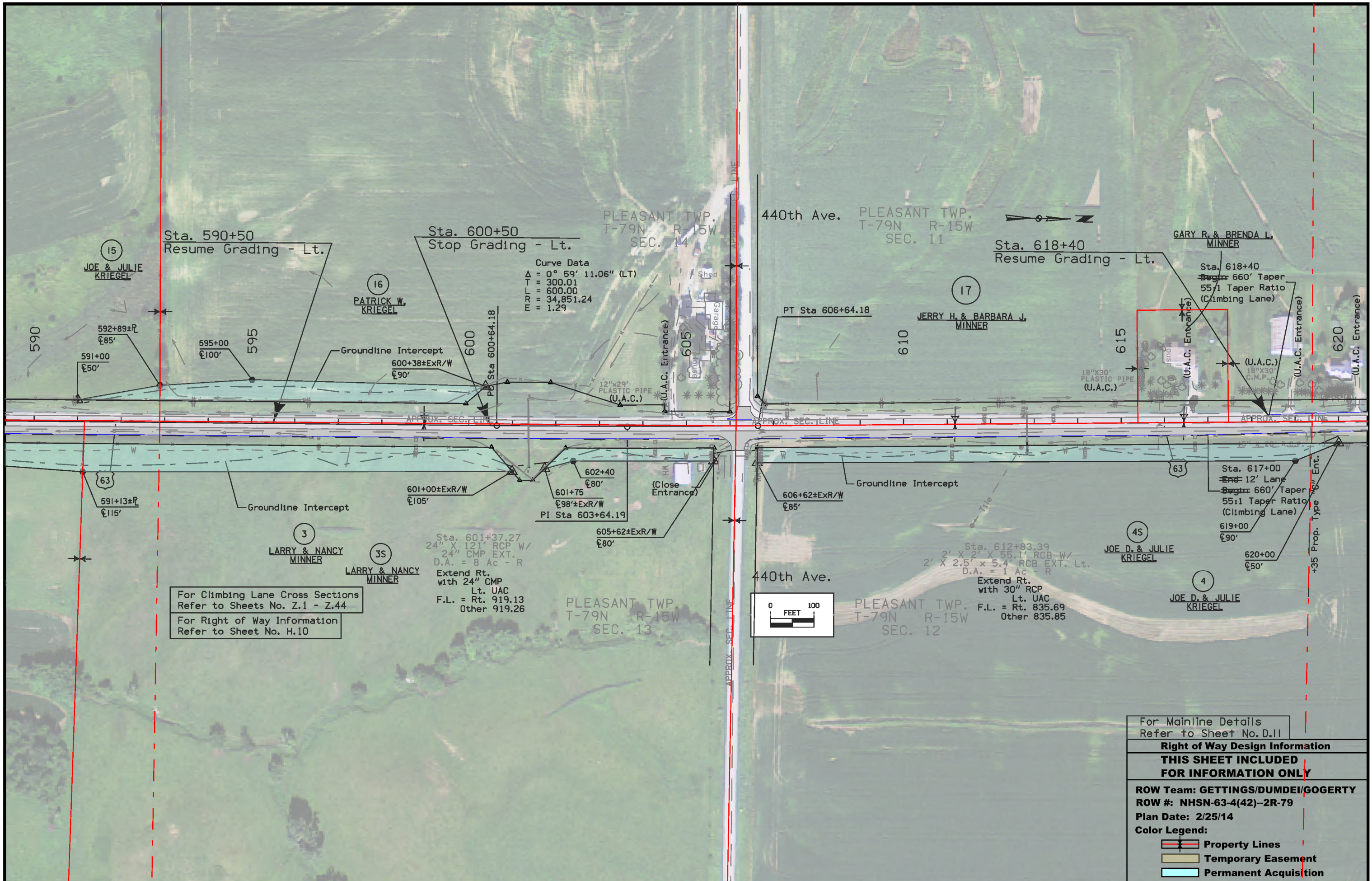
TEMPORARY EASEMENT
TO SHAPE
Sta. 534+08.6
DA = 8 Ac. R.
2' x 2' RCB
U.A.C.
JOE D. & JULIE
KRIEDEL
JOE D. & JULIE
KRIEDEL



PLEASANT TWP.
T-79N R-15W
SEC. 24

PLEASANT TWP.
T-79N R-15W
SEC. 13

For Mainline Details
Refer to Sheet No. D.9
Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY
ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: NHSN-63-4(42)--2R-79
Plan Date: 1/31/14
Color Legend:



Curve Data
 $\Delta = 0^\circ 59' 11.06''$ (LT)
 $T = 300.01$
 $L = 600.00$
 $R = 34,851.24$
 $E = 1.29$

Sta. 590+50
 Resume Grading - Lt.

Sta. 600+50
 Stop Grading - Lt.

Sta. 618+40
 Resume Grading - Lt.

GARY R. & BRENDA L. MINNER

Sta. 618+40
 660' Taper
 55:1 Taper Ratio
 (Climbing Lane)

JERRY H. & BARBARA J. MINNER

LARRY & NANCY MINNER

LARRY & NANCY MINNER

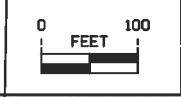
JOE D. & JULIE KRIEDEL

JOE D. & JULIE KRIEDEL

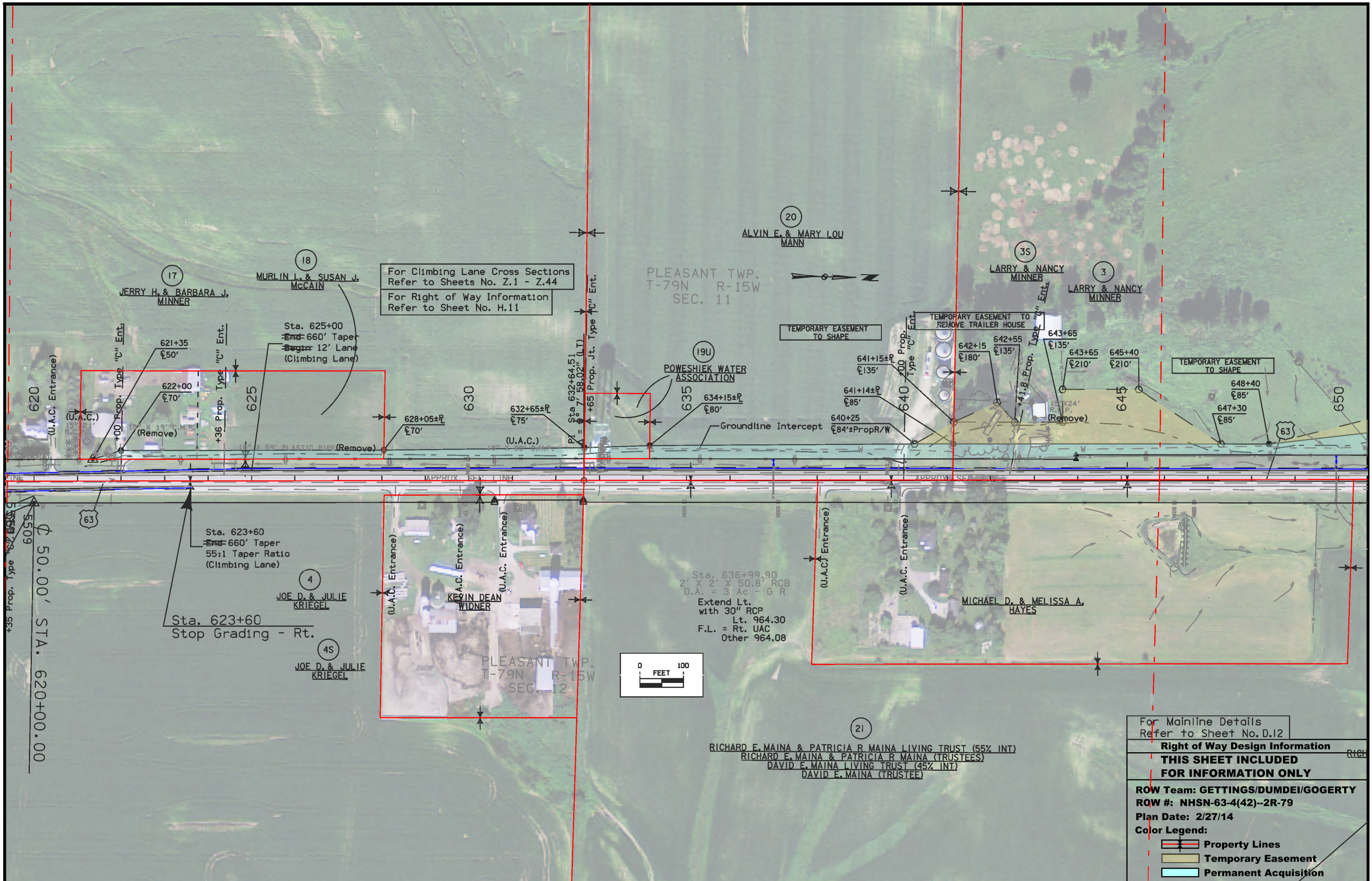
Sta. 601+37.27
 24" X 121' RCP W/
 24" CMP EXT.
 D.A. = 8 Ac - R
 Extend Rt.
 with 24" CMP
 Lt. UAC
 F.L. = Rt. 919.13
 Other 919.26

Sta. 612+83.39
 2' X 2' X 55.1' RCB W/
 2' X 2.5' X 5.4' RCB EXT. Lt.
 D.A. = 1 Ac - R
 Extend Rt.
 with 30" RCP
 Lt. UAC
 F.L. = Rt. 835.69
 Other 835.85

For Climbing Lane Cross Sections
 Refer to Sheets No. Z.1 - Z.44
 For Right of Way Information
 Refer to Sheet No. H.10



For Mainline Details Refer to Sheet No. D.11
Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY
ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: NHSN-63-4(42)--2R-79
Plan Date: 2/25/14
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition



For Climbing Lane Cross Sections
Refer to Sheets No. Z.1 - Z.44
For Right of Way Information
Refer to Sheet No. H.11

TEMPORARY EASEMENT
TO SHAPE

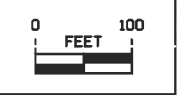
TEMPORARY EASEMENT TO
REMOVE TRAILER HOUSE

TEMPORARY EASEMENT
TO SHAPE

Sta. 623+60
End 660' Taper
55:1 Taper Ratio
(Climbing Lane)

Sta. 623+60
Stop Grading - Rt.

Sta. 636+99.90
2' X 2' X 50.8' RCB
D.A. = 3 Ac - G R
Extend Lt.
with 30" RCP
Lt. 964.30
F.L. = Rt. UAC
Other 964.08

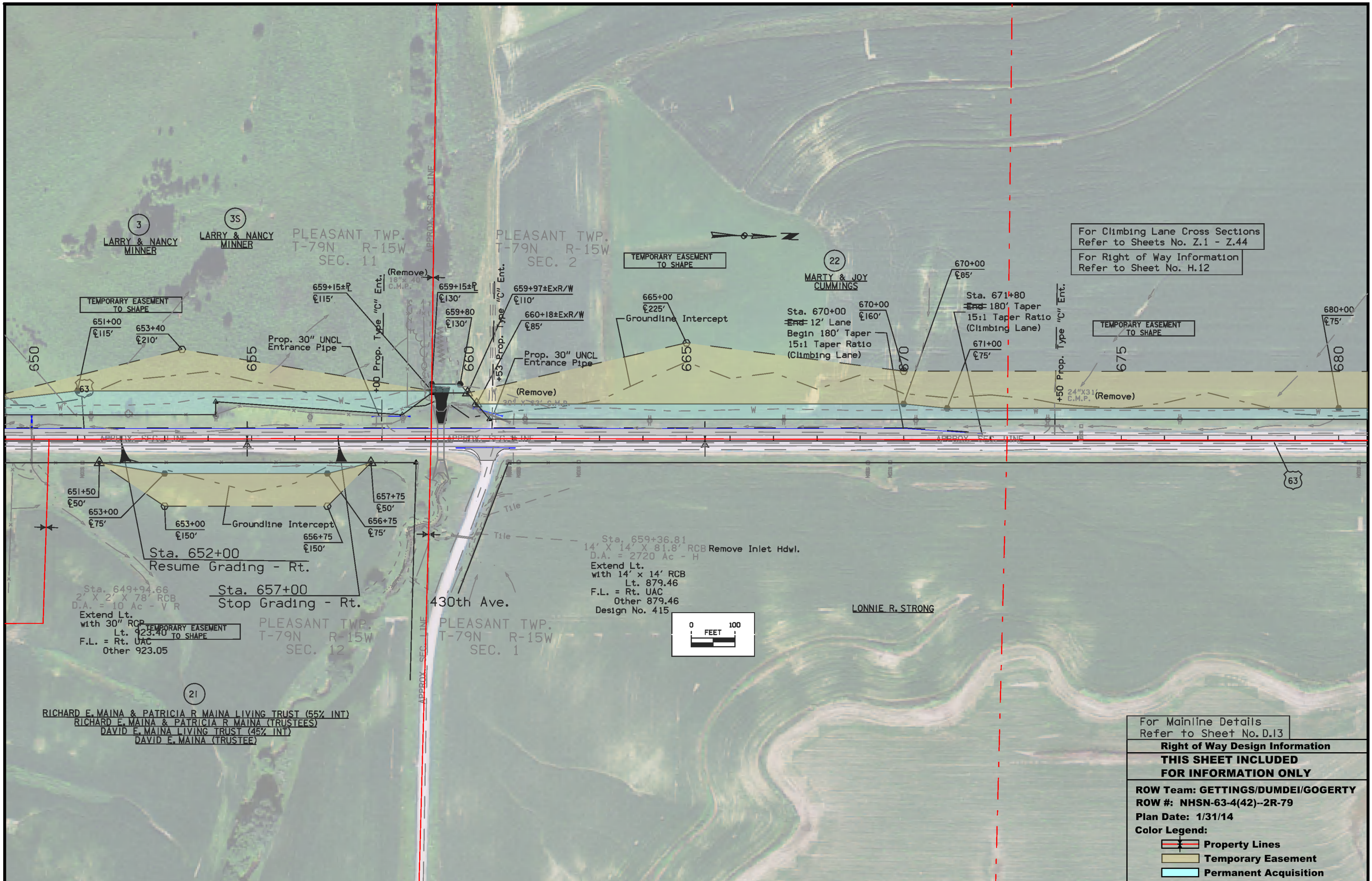


For Mainline Details
Refer to Sheet No. D.12

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: NHSN-63-4(42)--2R-79
Plan Date: 2/27/14

Color Legend:
 Property Lines
 Temporary Easement
 Permanent Acquisition



For Climbing Lane Cross Sections
Refer to Sheets No. Z.1 - Z.44

For Right of Way Information
Refer to Sheet No. H.12

For Mainline Details
Refer to Sheet No. D.13

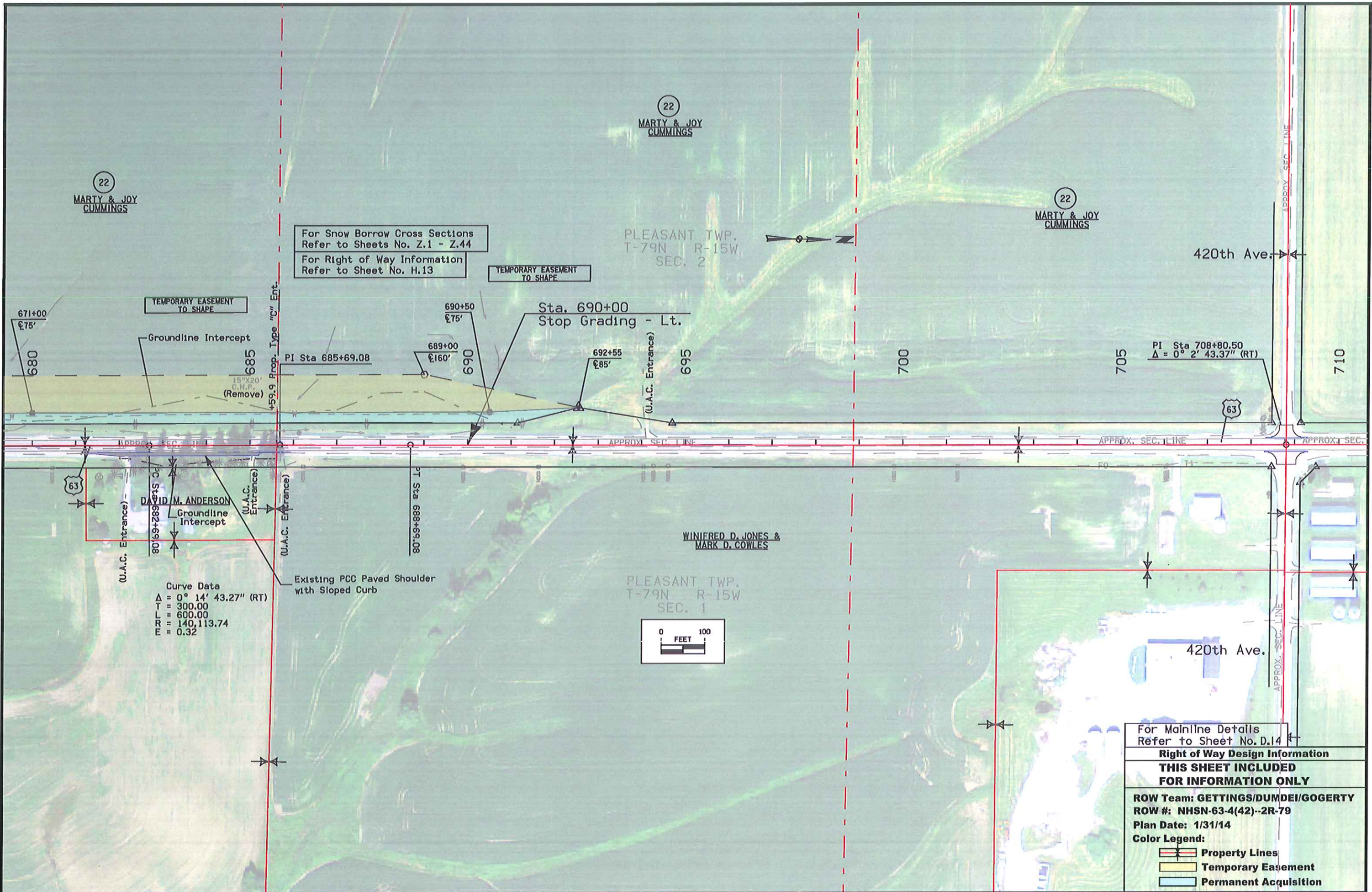
Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: NHSN-63-4(42)--2R-79
Plan Date: 1/31/14

Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition



For Snow Borrow Cross Sections
Refer to Sheets No. Z.1 - Z.44
For Right of Way Information
Refer to Sheet No. H.13

TEMPORARY EASEMENT
TO SHAPE

TEMPORARY EASEMENT
TO SHAPE

Groundline Intercept
15"x20"
C.M.P.
(Remove)

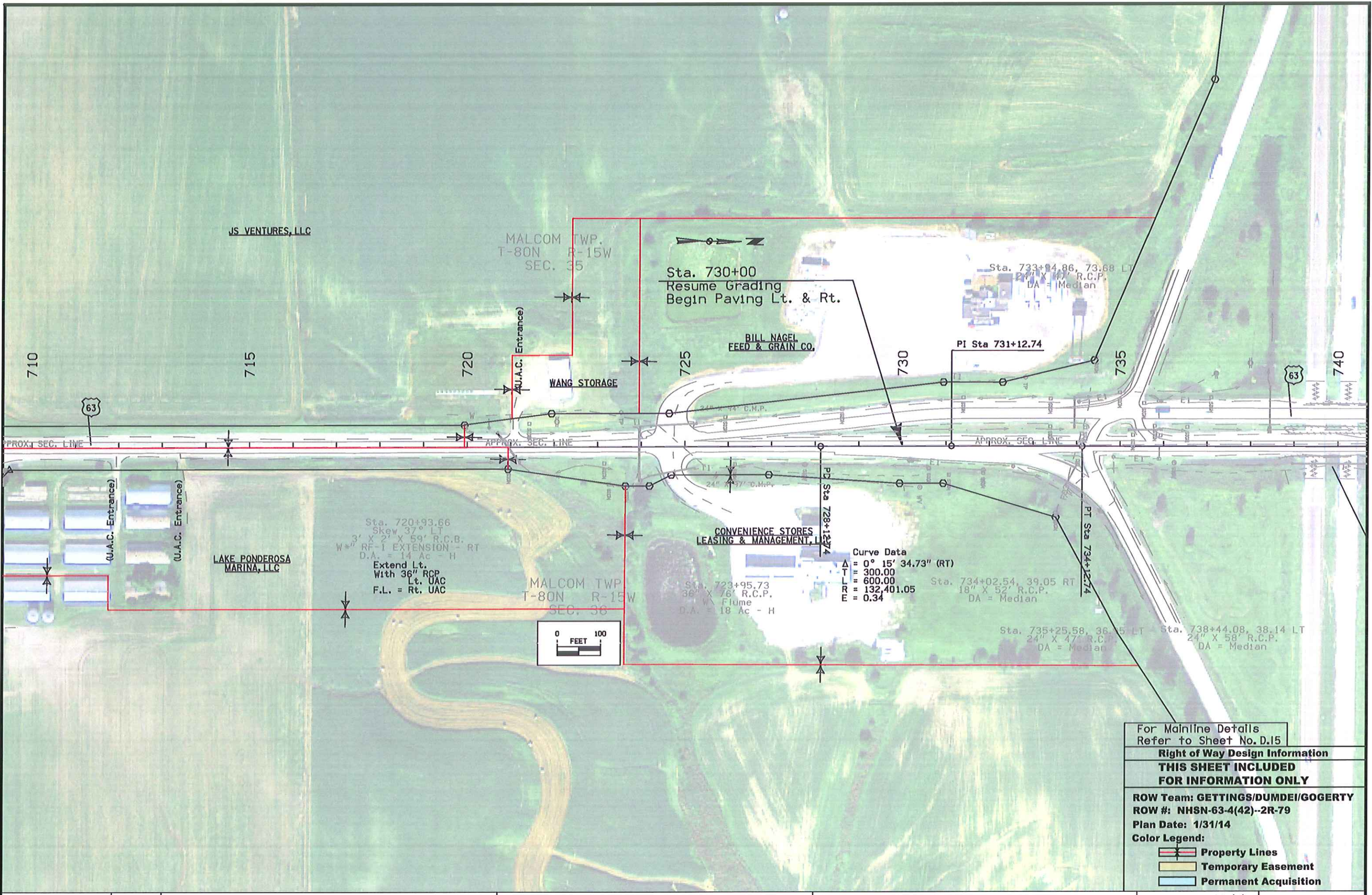
Curve Data
 $\Delta = 0^\circ 14' 43.27''$ (RT)
 $T = 300.00$
 $R = 600.00$
 $L = 140,113.74$
 $E = 0.32$

For Mainline Details
Refer to Sheet No. D.14

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
 ROW #: NHSN-63-4(42)--2R-79
 Plan Date: 1/31/14
 Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition



For Mainline Details
Refer to Sheet No. D.15

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

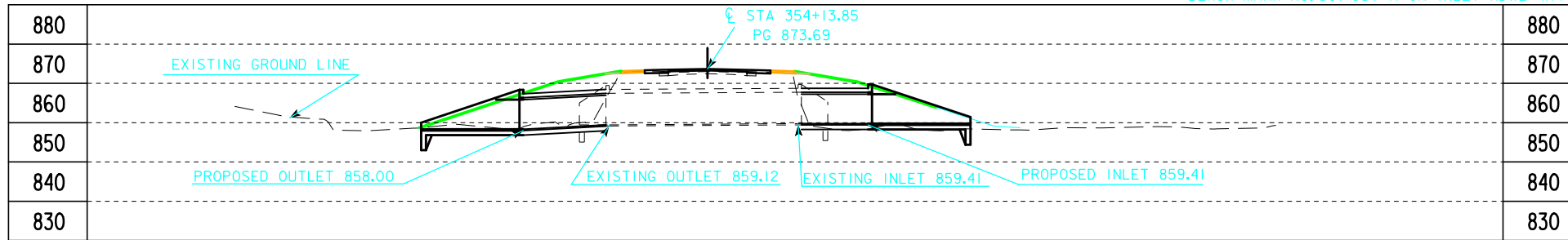
ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: NHSN-63-4(42)--2R-79
Plan Date: 1/31/14

Color Legend:

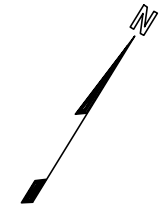
- Property Lines
- Temporary Easement
- Permanent Acquisition



For Mainline Details Refer to Sheet No. D.16
Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY
ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: NHSN-63-4(42)--2R-79
Plan Date: 1/31/14
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition



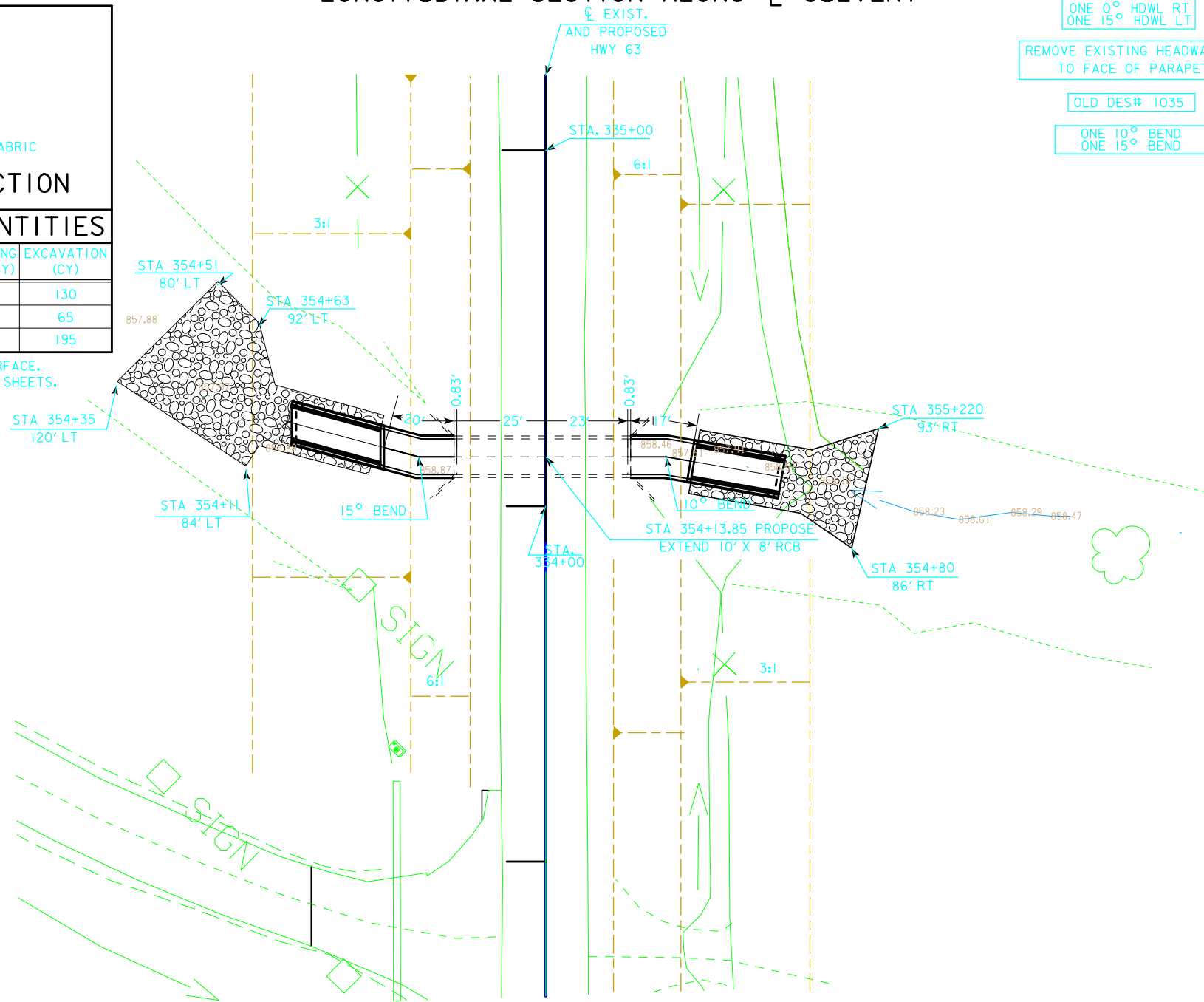
LONGITUDINAL SECTION ALONG ϕ CULVERT



TYPICAL CHANNEL PROTECTION

ESTIMATED REVETMENT QUANTITIES			
LOCATION	REVETMENT CL. 10 (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)
LEFT	200	240	130
RIGHT	100	120	65
TOTALS	300	360	195

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE. QUANTITIES SHOWN FOR INFORMATION ONLY. SEE ROAD SHEETS.



HYDRAULIC DATA
DRAINAGE AREA = 571 ACRES H

UTILITIES LEGEND:
NO KNOWN UTILITIES

LOCATION	TRAFFIC ESTIMATE
T-78N R-15W	200_ AADT 3000 V.P.D.
SECTION 1	202_ AADT 4000 V.P.D.
JACKSON TOWNSHIP	202_ DHV 410 V.P.H.
POWESHIEK COUNTY	TRUCKS 18 %
LATITUDE 41.595271°	TOTAL
LONGITUDE -92.536343°	DESIGN ESALS

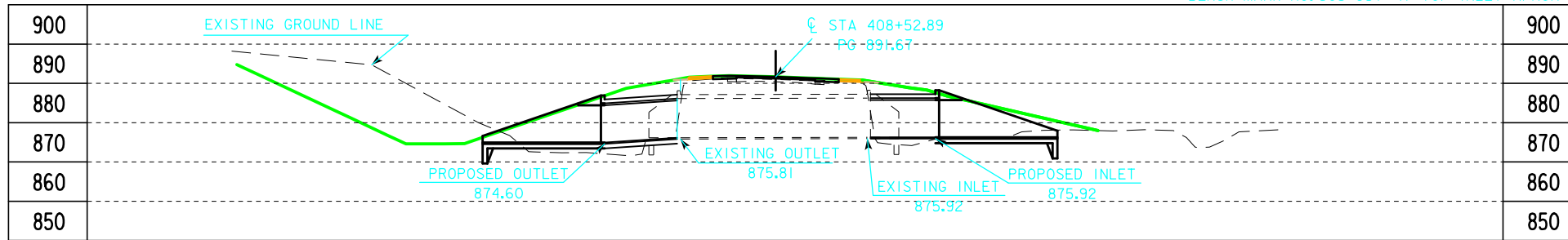
PRELIMINARY
DESIGN FOR 0° SKEW
**10' X 8' REINFORCED
CONCRETE BOX CULVERT
EXTENSION
SITUATION PLAN**

STATION 354+13.85

POWESHIEK COUNTY

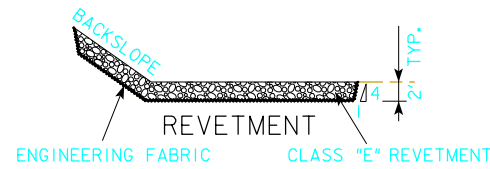
30992

0115



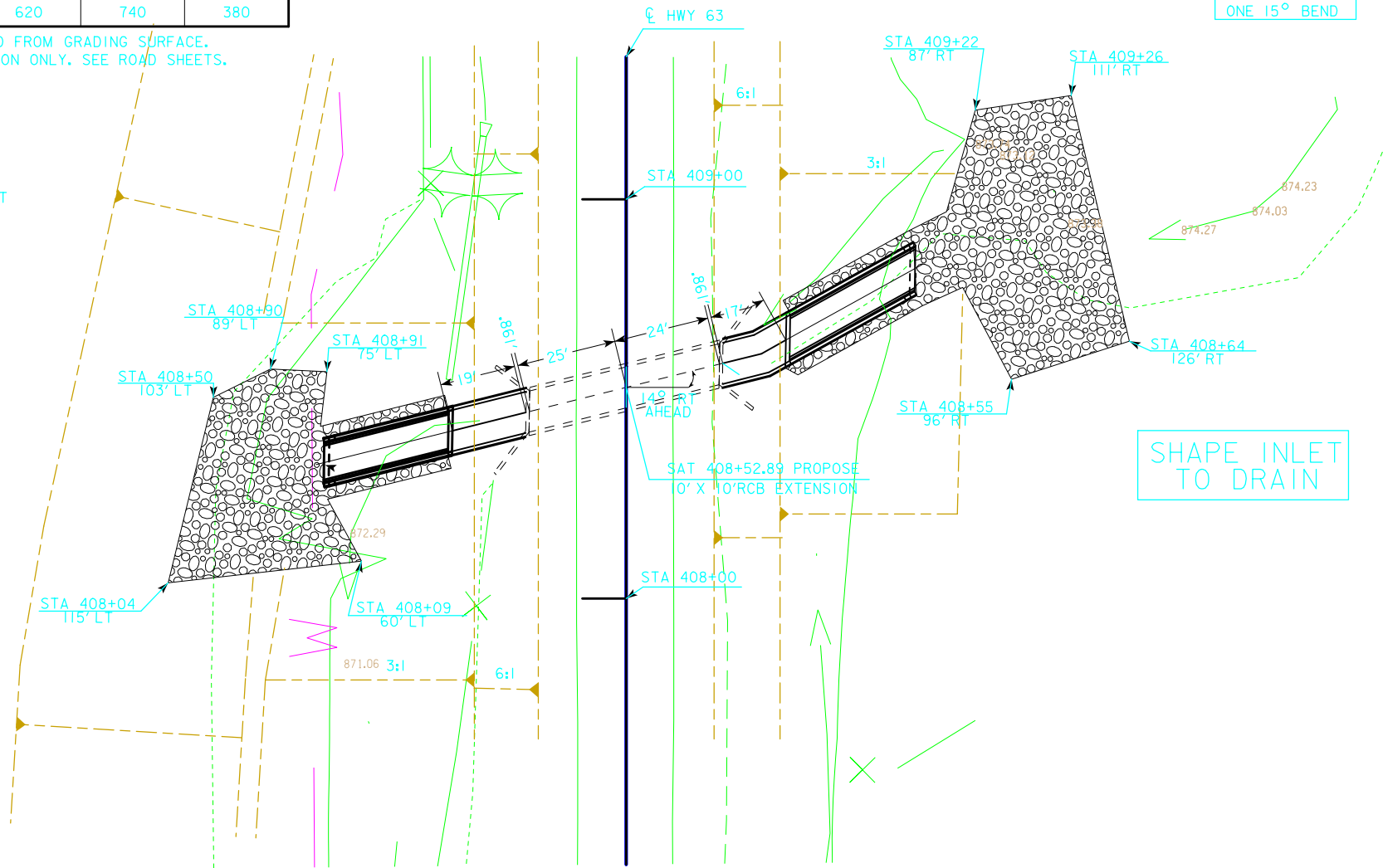
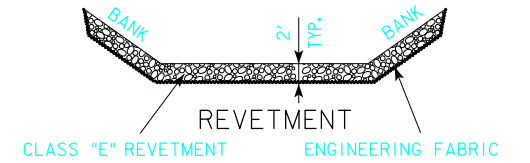
ESTIMATED REVETMENT QUANTITIES			
LOCATION	REVETMENT CL. 10 (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)
LEFT	280	340	160
RIGHT	340	400	220
TOTALS	620	740	380

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE. QUANTITIES SHOWN FOR INFORMATION ONLY. SEE ROAD SHEETS.



LONGITUDINAL SECTION ALONG CL CULVERT

- ONE 30° HDWL RT
- ONE 15° HDWL LT
- OLD DES# 1735
- REMOVE HEADWALLS TO FACE OF PARAPET
- ONE 15° BEND



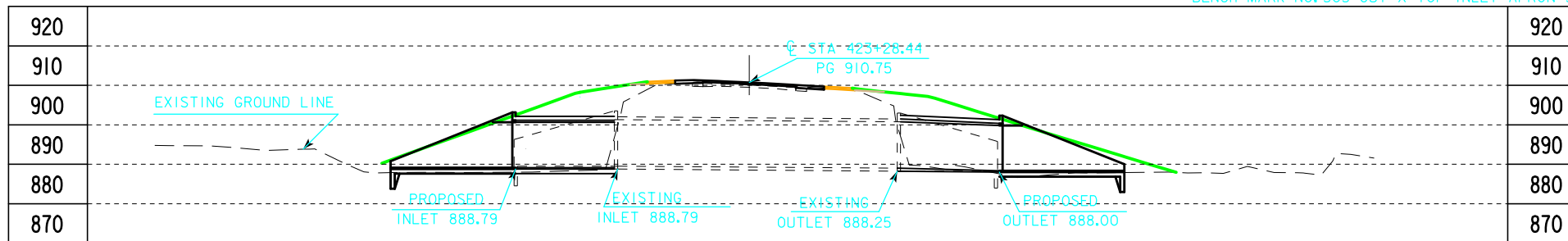
HYDRAULIC DATA
DRAINAGE AREA = 672 AC H

UTILITIES LEGEND:
WLA WATER LINE I

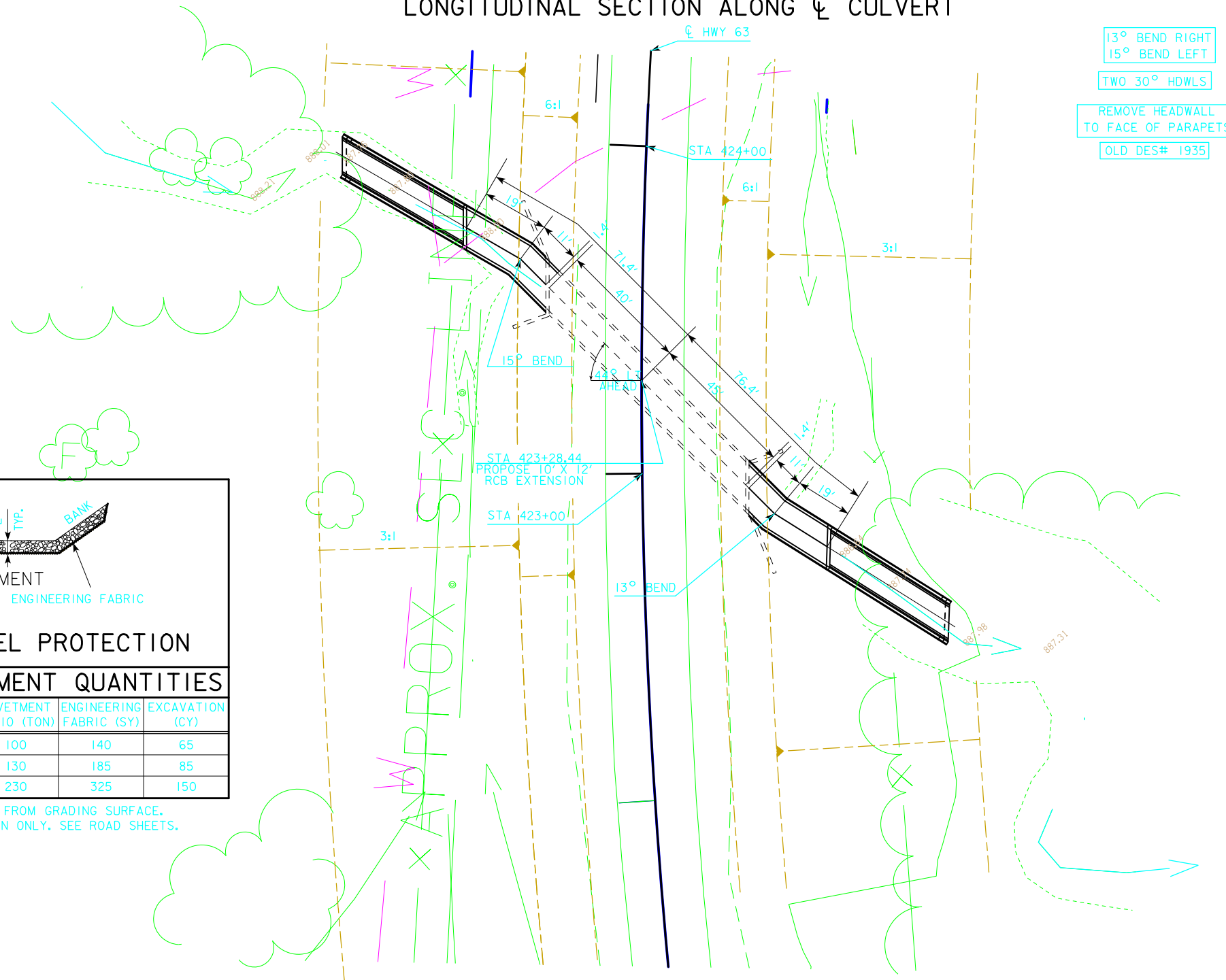
LOCATION	TRAFFIC ESTIMATE
T-79N R-15W	200_ AADT 3000 V.P.D.
SECTION 36	202_ AADT 4000 V.P.D.
PLEASANT TOWNSHIP	202_ DHV 410 V.P.H.
POWESHIEK COUNTY	TRUCKS 18 %
LATITUDE 41.606053°	TOTAL DESIGN ESALs
LONGITUDE -92.550095°	

PRELIMINARY
DESIGN FOR 14° SKEW RT AH
10' X 10' REINFORCED
CONCRETE BOX CULVERT
EXTENSION
SITUATION PLAN
STATION 408+52.89
POWESHIEK COUNTY

SITUATION PLAN



LONGITUDINAL SECTION ALONG CULVERT



13° BEND RIGHT
15° BEND LEFT
TWO 30° HDWLS
REMOVE HEADWALL TO FACE OF PARAPETS
OLD DES# 1935

HYDRAULIC DATA
DRAINAGE AREA = 504 AC V-R

UTILITIES LEGEND:
WLA WATER LINE I

TYPICAL CHANNEL PROTECTION

LOCATION	REVETMENT CL. 10 (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)
LEFT	100	140	65
RIGHT	130	185	85
TOTALS	230	325	150

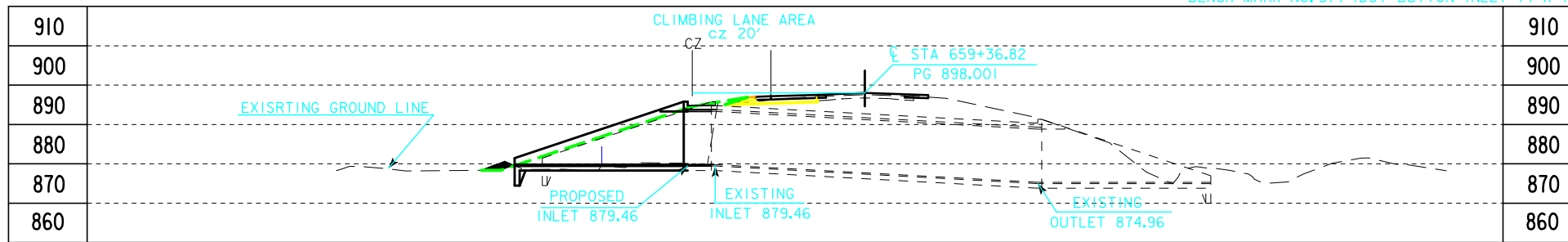
EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE. QUANTITIES SHOWN FOR INFORMATION ONLY. SEE ROAD SHEETS.

LOCATION: T-79N R-15W SECTION 36 PLEASANT TOWNSHIP POWESHIEK COUNTY LATITUDE 41.609654° LONGITUDE -92.552264°

TRAFFIC ESTIMATE	ESTIMATE	UNIT
200. AADT	3000	V.P.D.
202. AADT	4000	V.P.D.
202. DHV	410	V.P.H.
TRUCKS	18	%
TOTAL DESIGN ESALS		

PRELIMINARY
DESIGN FOR 44° SKEW LT AHEAD
10' X 12' REINFORCED CONCRETE BOX CULVERT EXTENSION SITUATION PLAN
STATION 423+28.44
POWESHIEK COUNTY

SITUATION PLAN



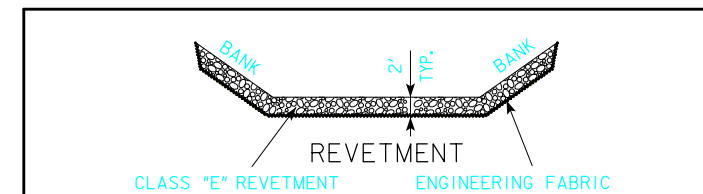
LONGITUDINAL SECTION ALONG ϕ CULVERT



OLD DES# 588

REMOVE INLET HDWL TO FACE OF PARAPET

ONE 0° HDWL

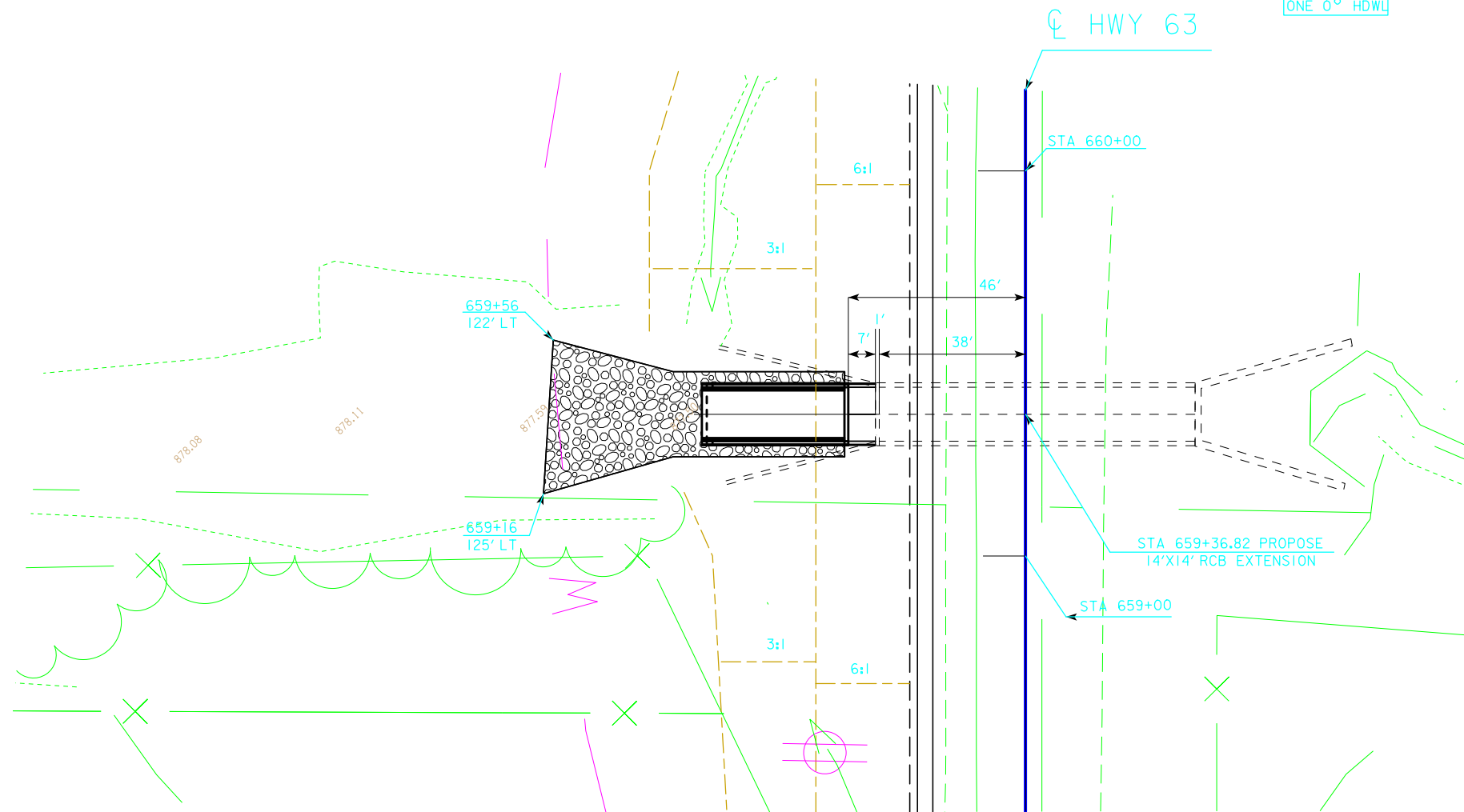


TYPICAL CHANNEL PROTECTION

ESTIMATED REVETMENT QUANTITIES

LOCATION	REVETMENT CL. 10 (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)
LEFT	200	250	115

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE. QUANTITIES SHOWN FOR INFORMATION ONLY. SEE ROAD SHEETS.



UTILITIES LEGEND:

WLA WATER LINE 1
PPA POWER POLE CO. 1

HYDRAULIC DATA

DRAINAGE AREA = 2720 AC H

LOCATION

T-79N R-15W
SECTION 1
PLEASANT TOWNSHIP
POWESHIEK COUNTY
LATITUDE 41.674443°
LONGITUDE -92.552098°

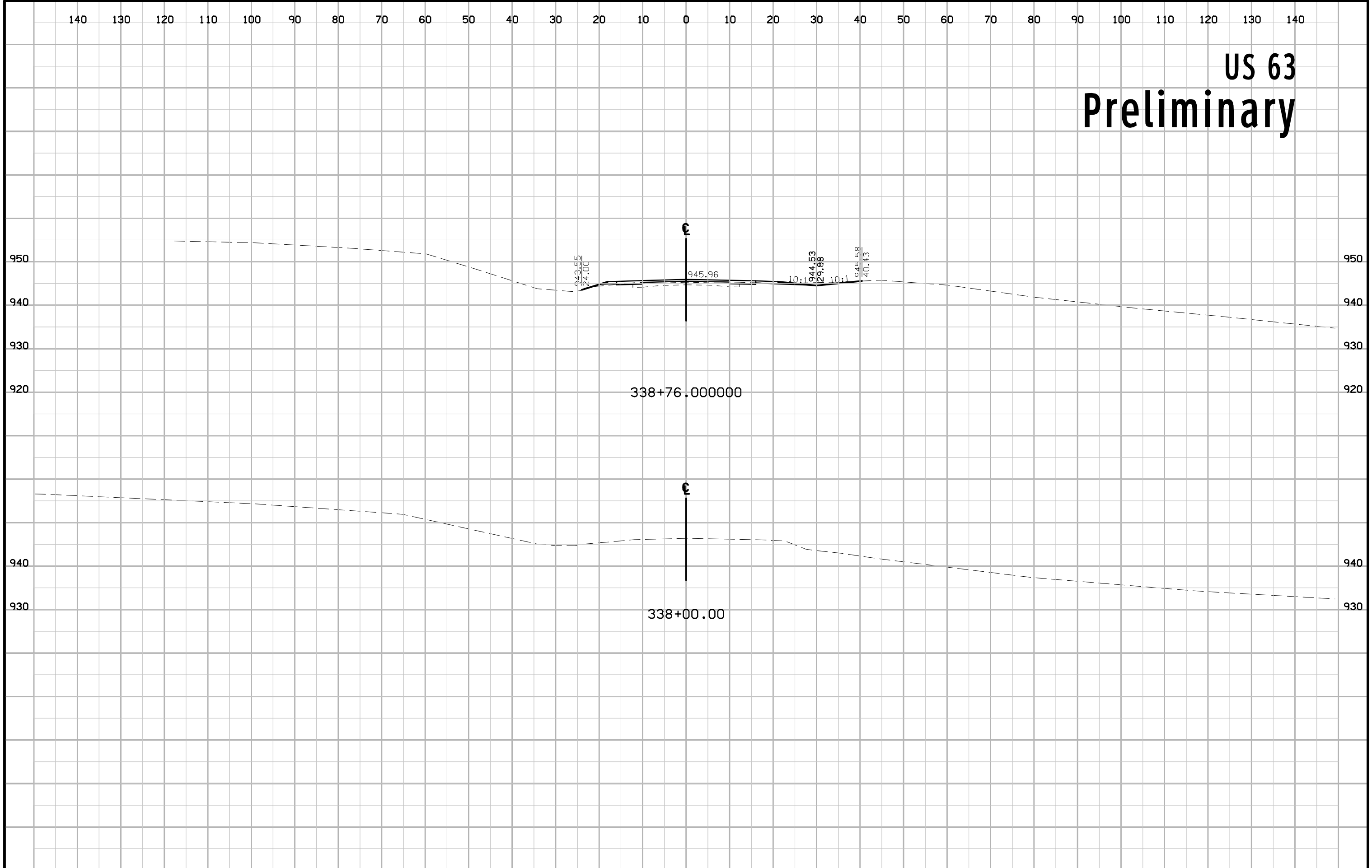
TRAFFIC ESTIMATE

200_ AADT	3000	V.P.D.
202_ AADT	4000	V.P.D.
202_ DHV	410	V.P.H.
TRUCKS	18	%
TOTAL DESIGN ESALS		

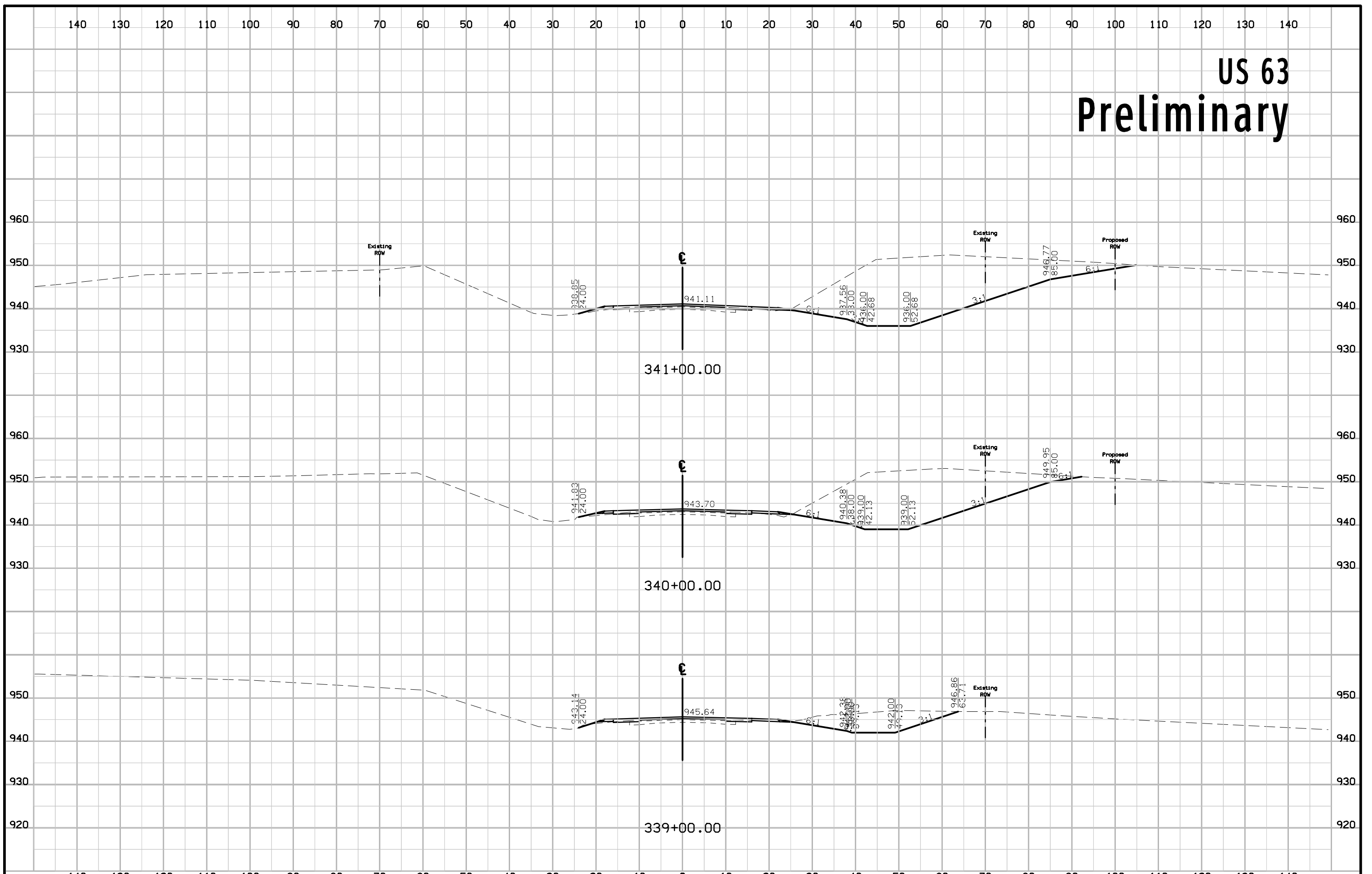
SITUATION PLAN

PRELIMINARY
DESIGN FOR 0° SKEW
14'X14' REINFORCED CONCRETE BOX CULVERT EXTENSION SITUATION PLAN
STATION 659+36.82
POWESHIEK COUNTY
30992 0415

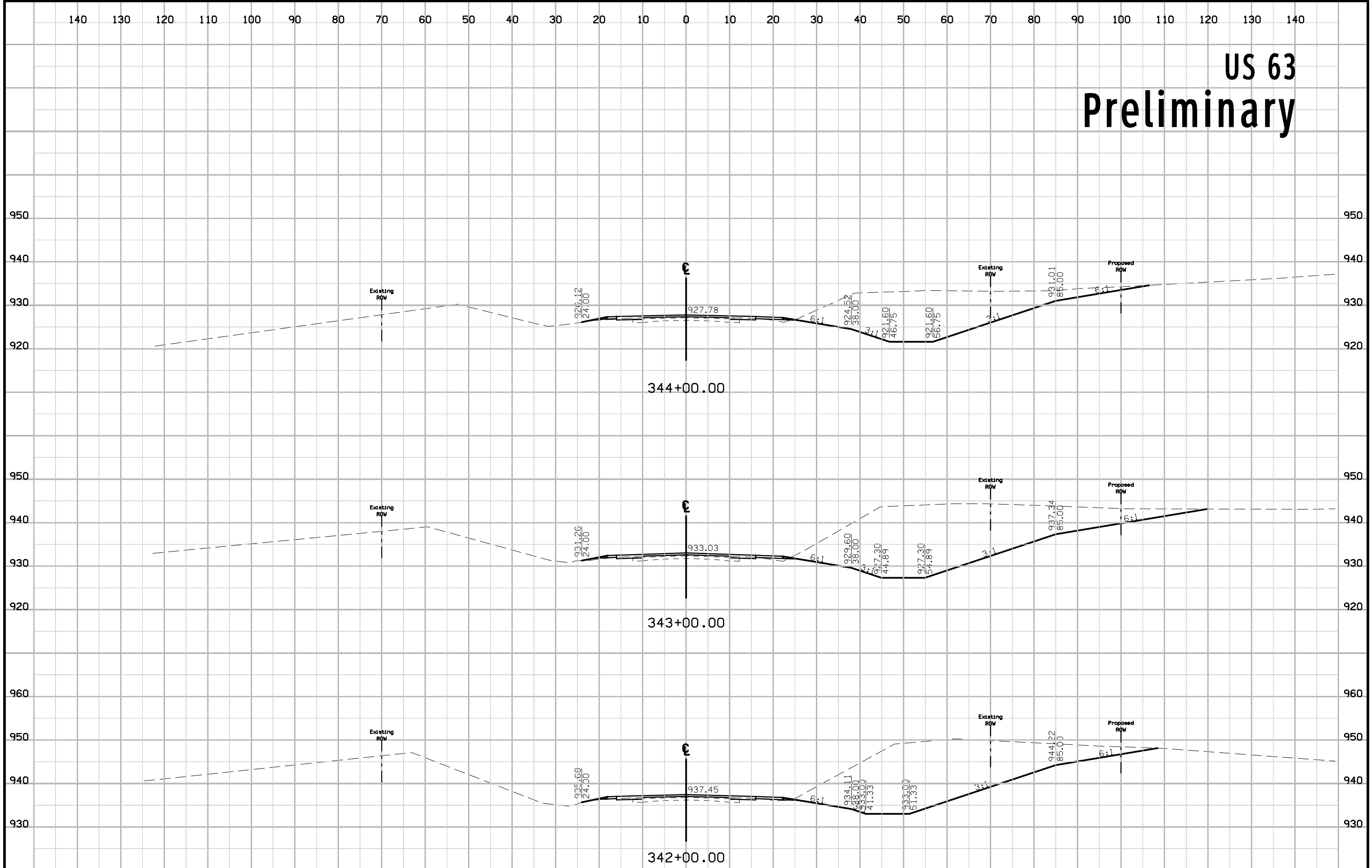
US 63 Preliminary



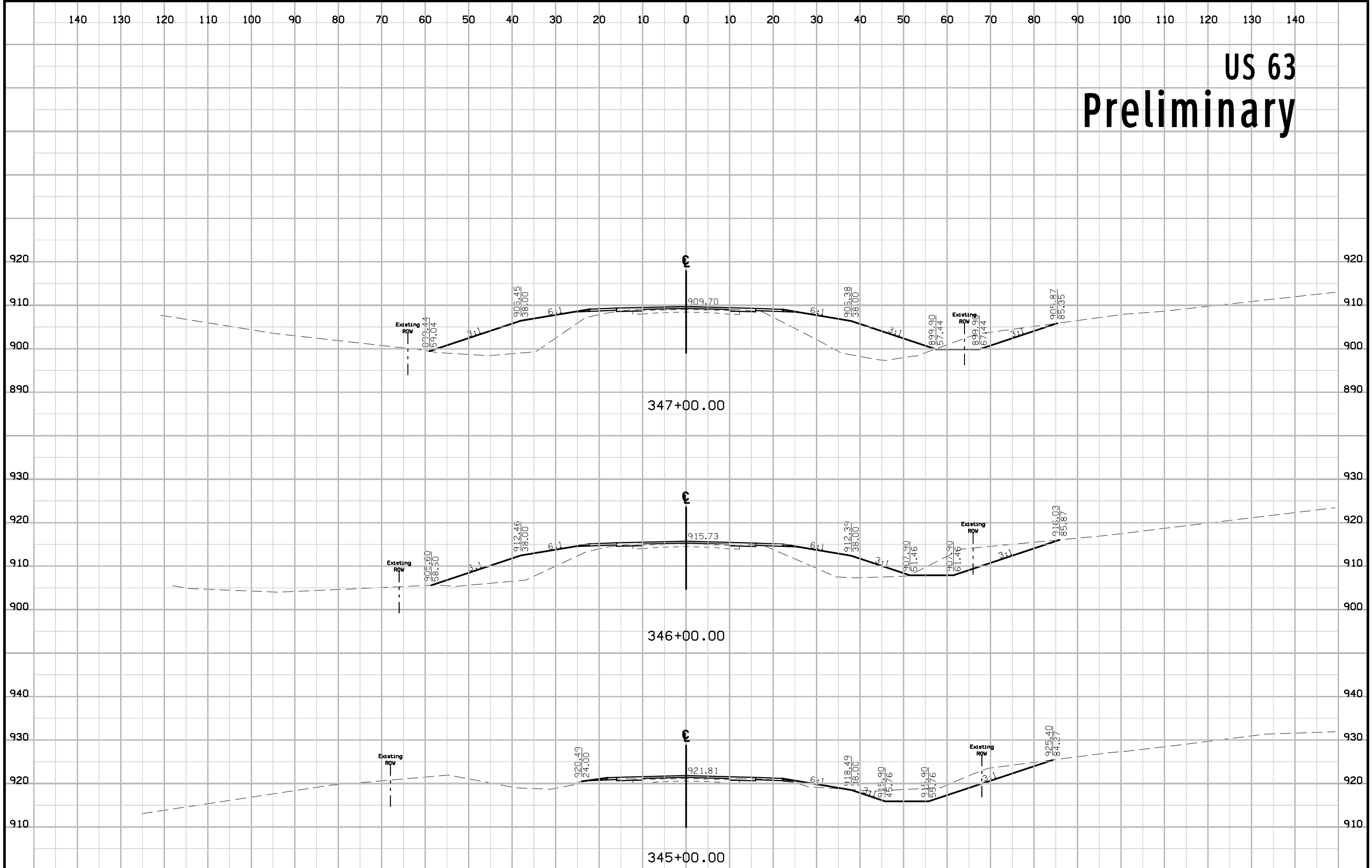
US 63 Preliminary



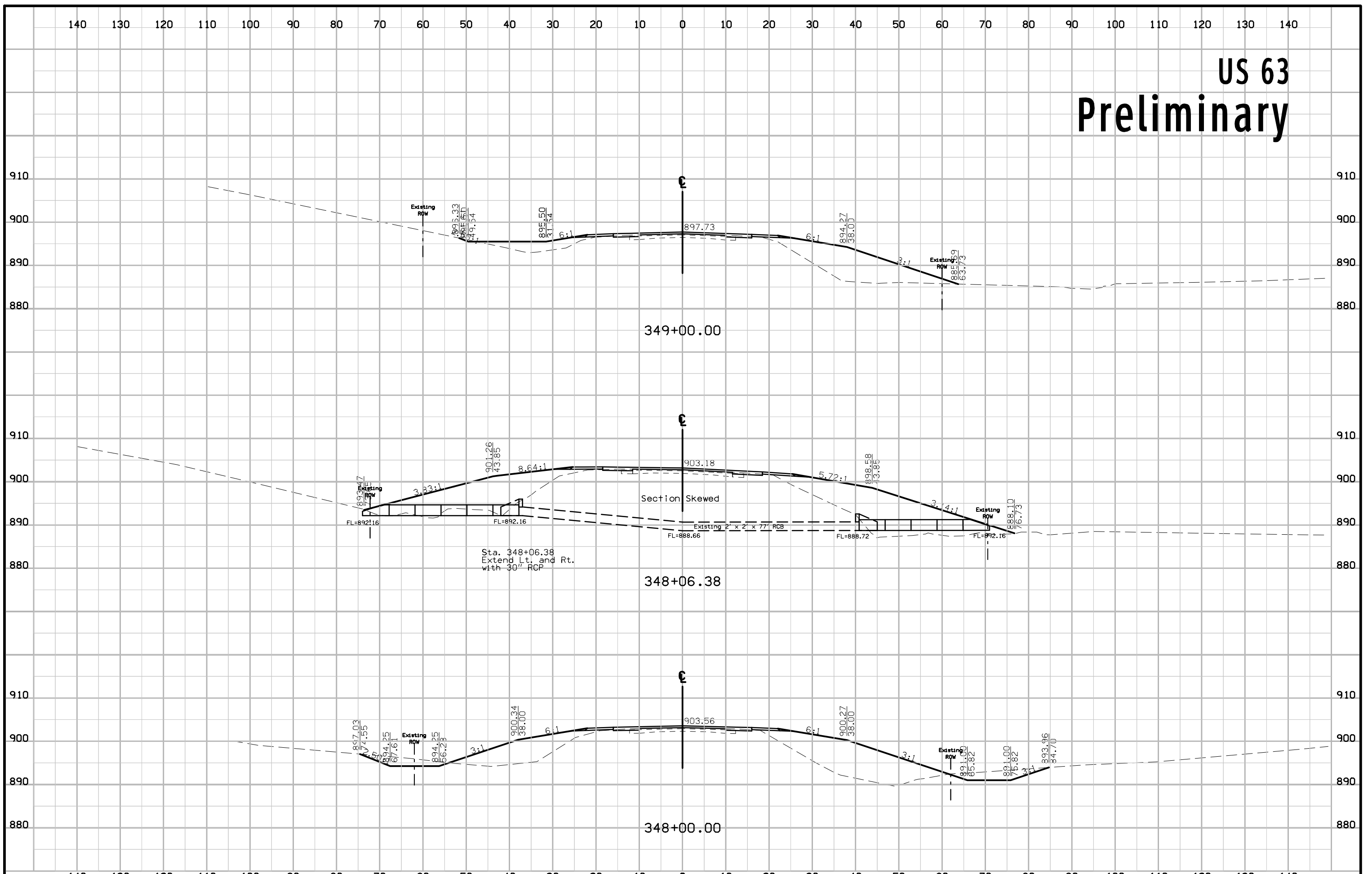
US 63 Preliminary



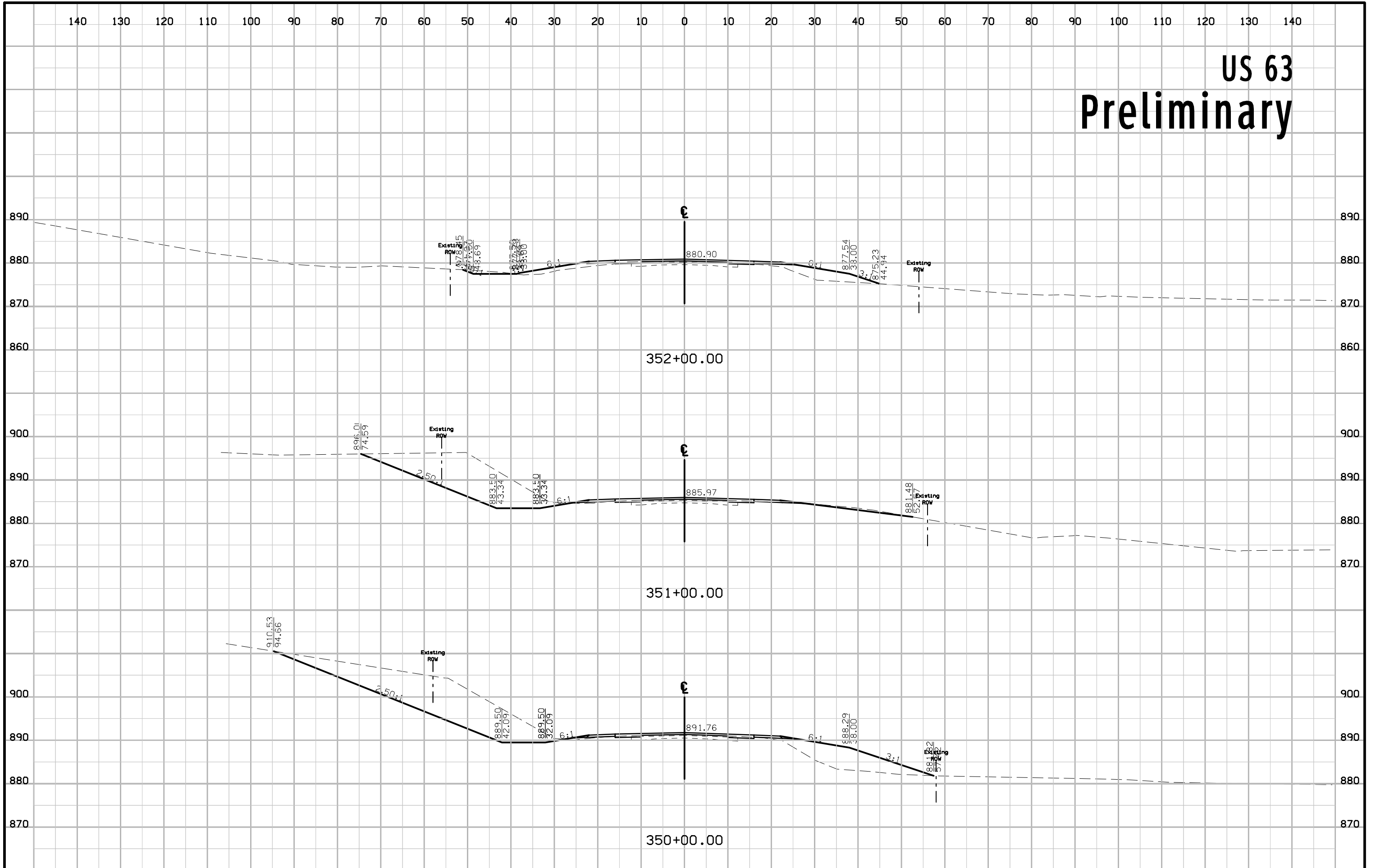
US 63 Preliminary



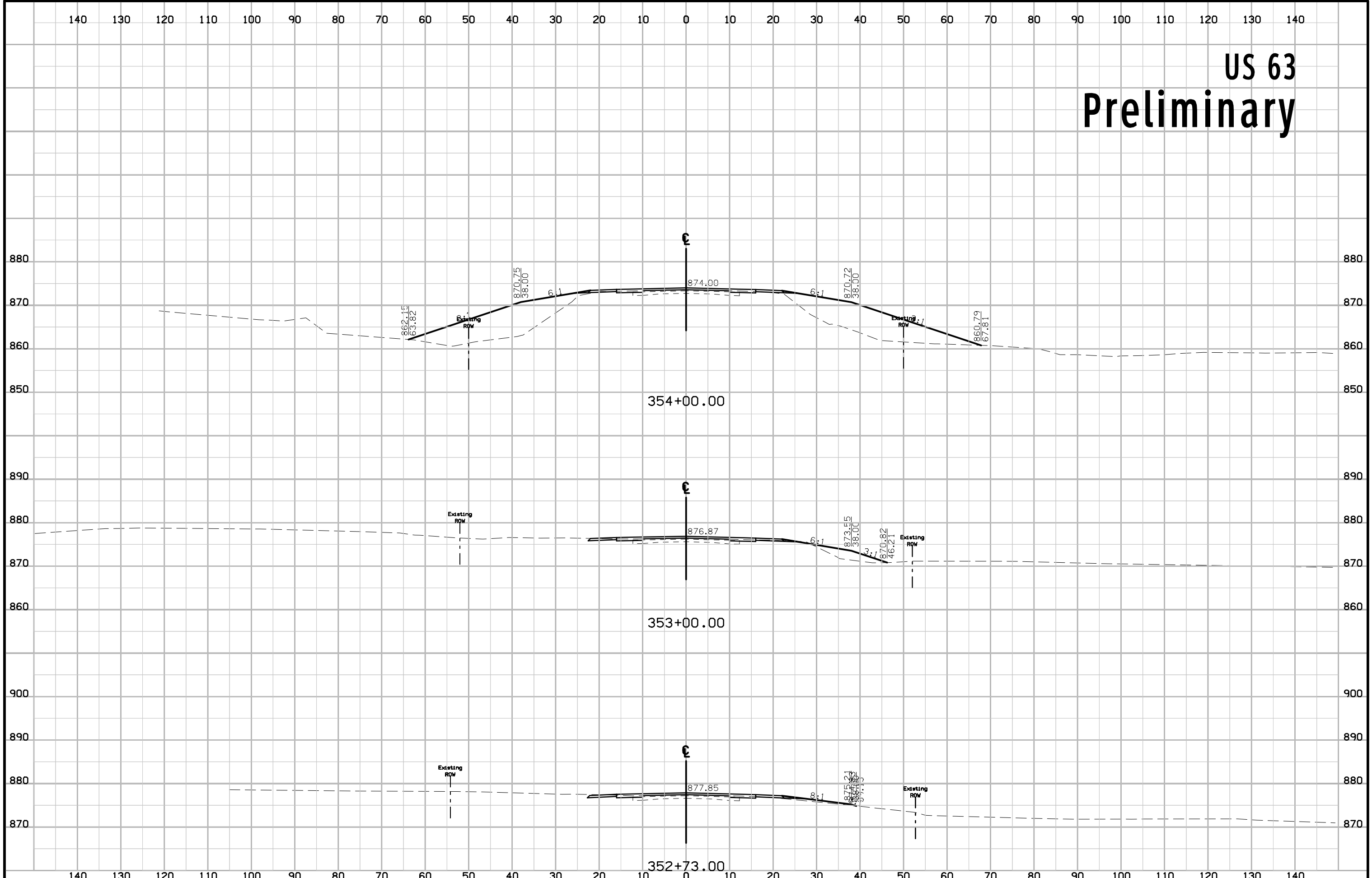
US 63 Preliminary



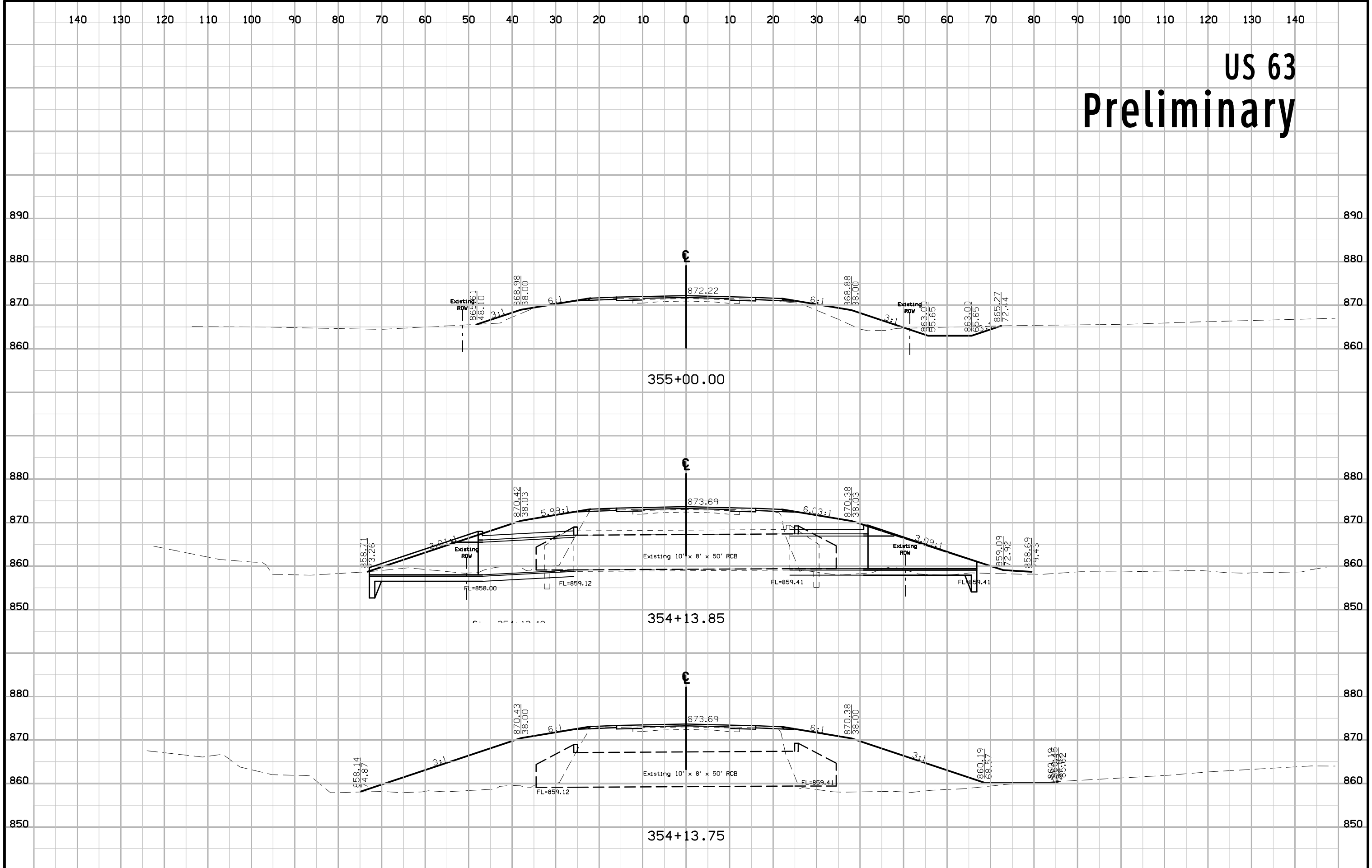
US 63 Preliminary



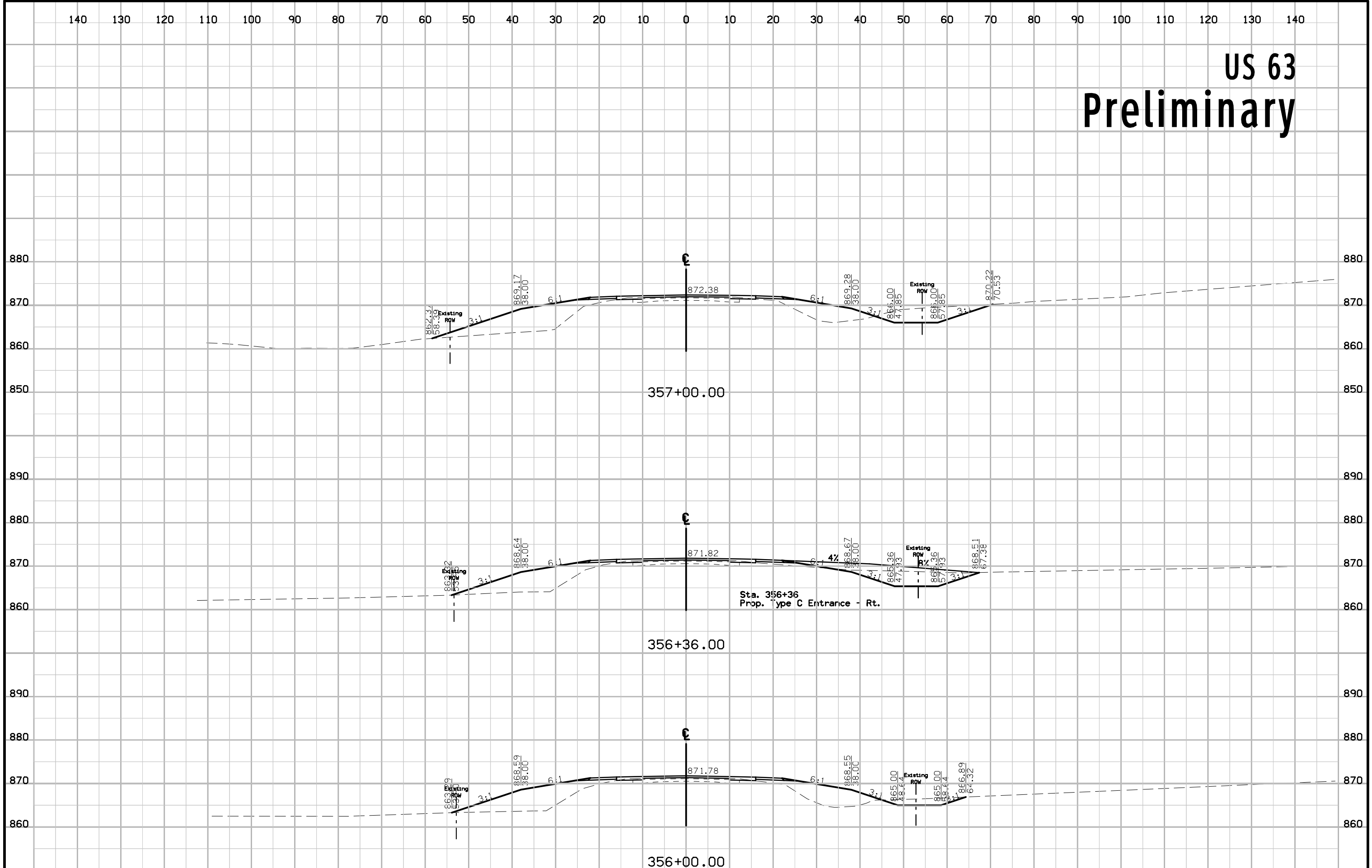
US 63 Preliminary



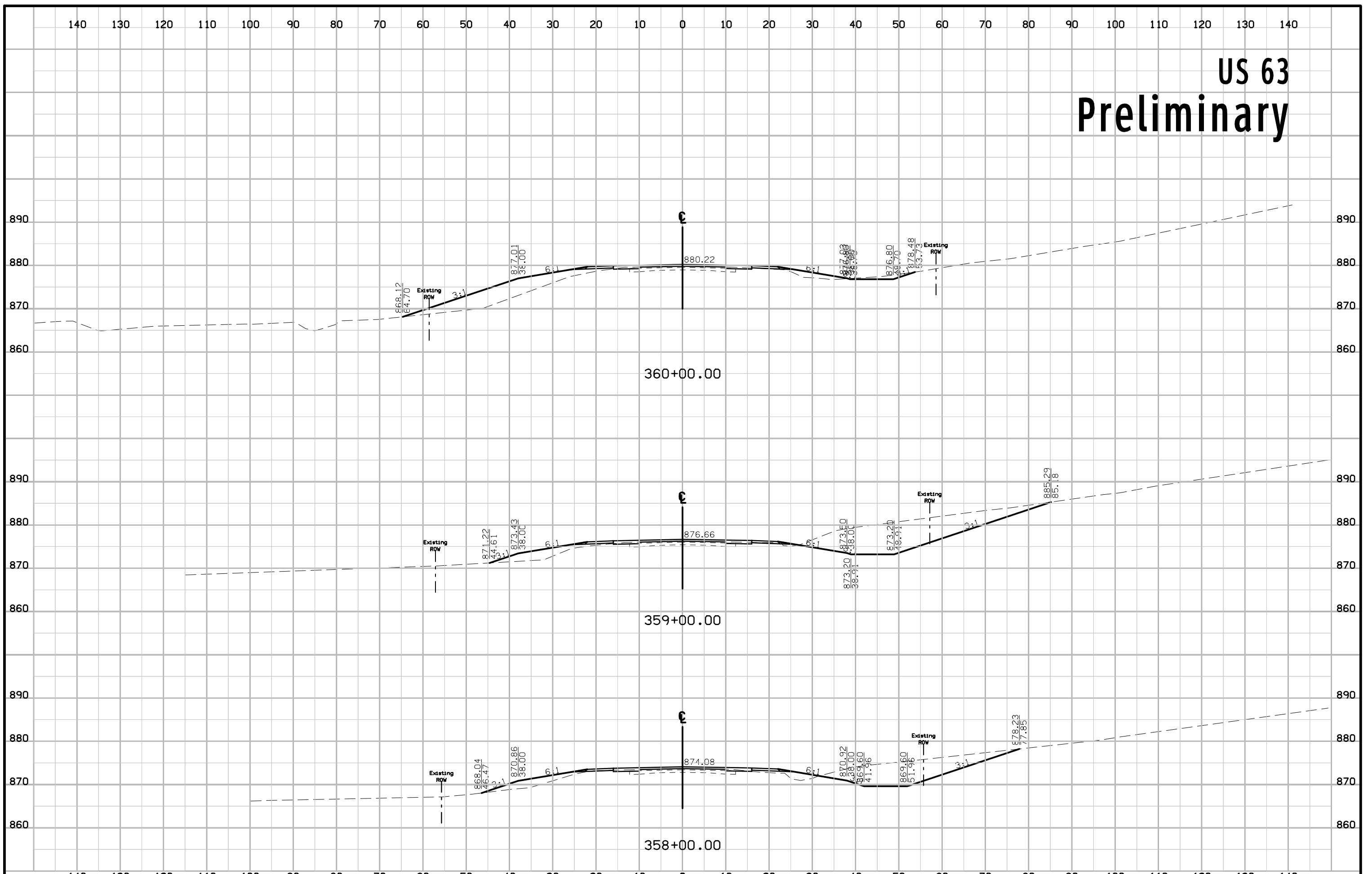
US 63 Preliminary



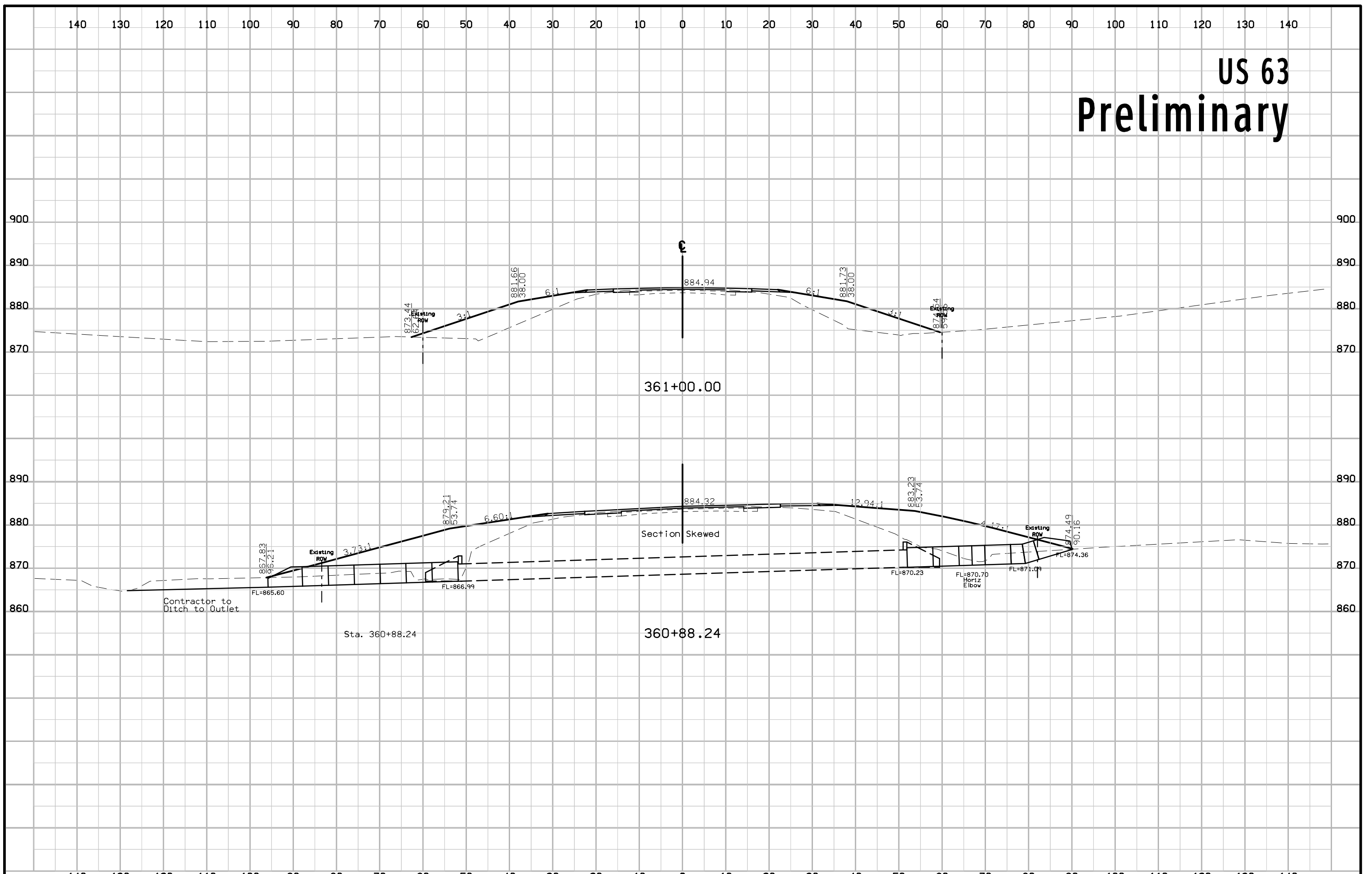
US 63 Preliminary



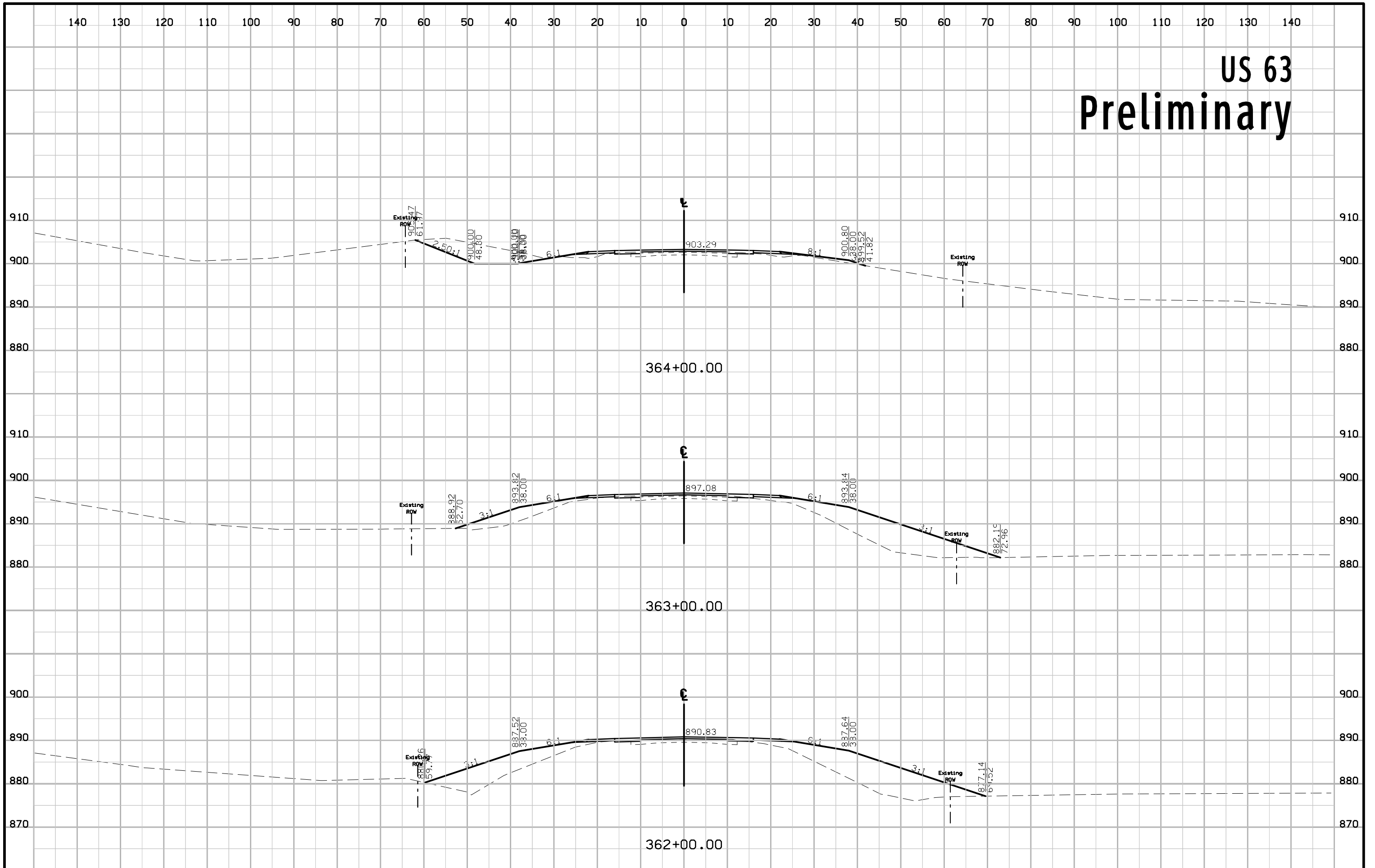
US 63 Preliminary



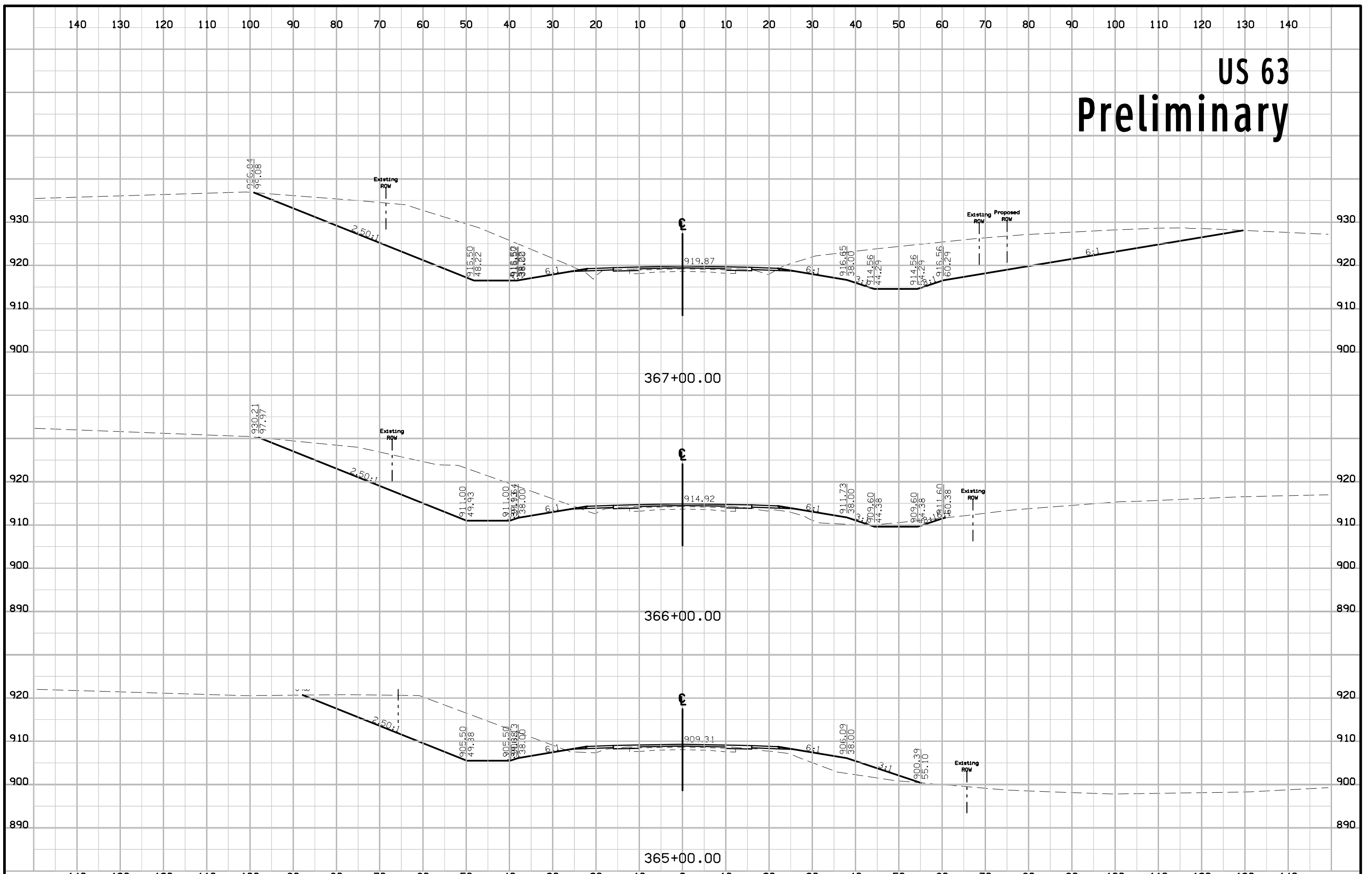
US 63 Preliminary



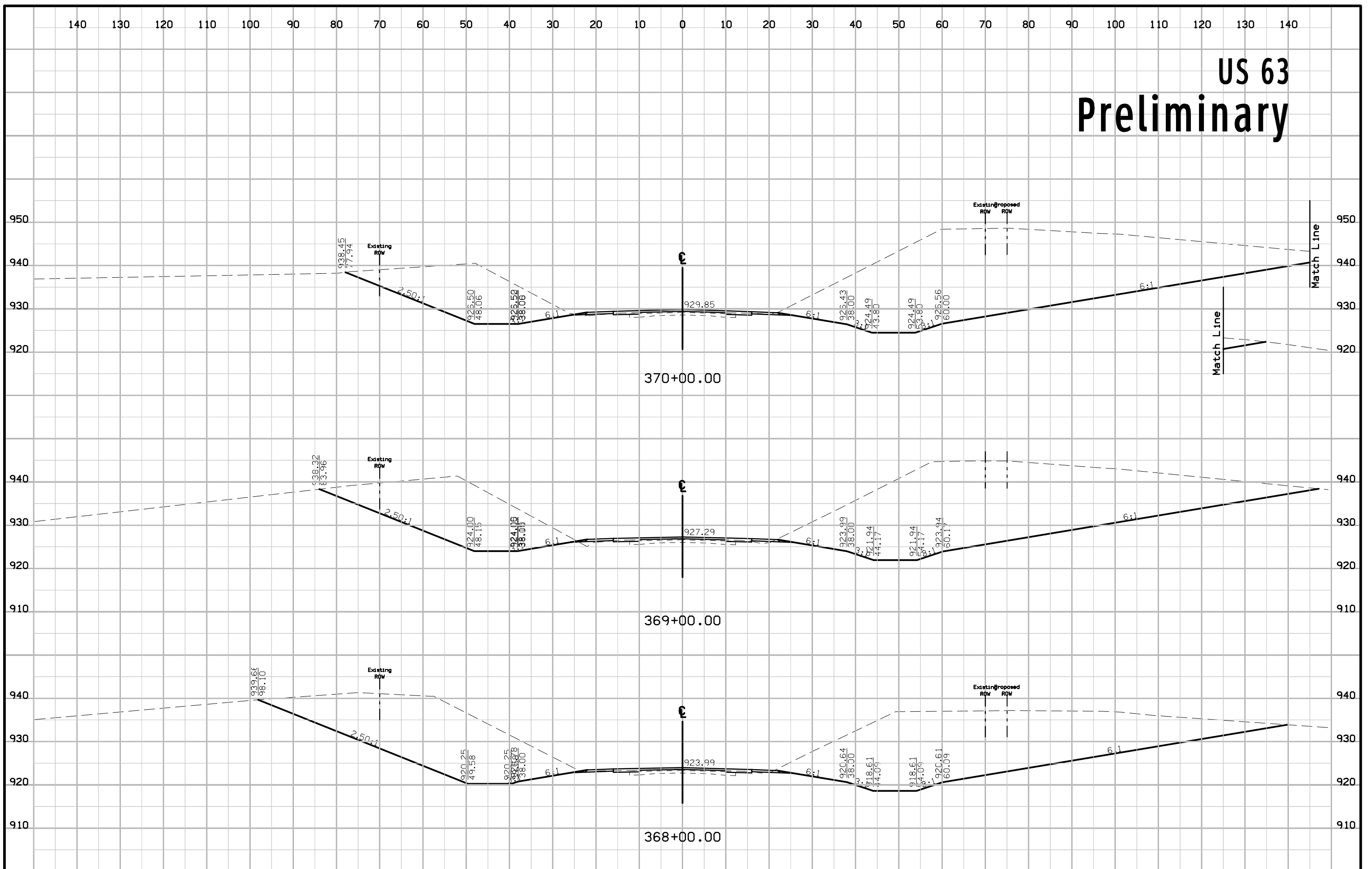
US 63 Preliminary



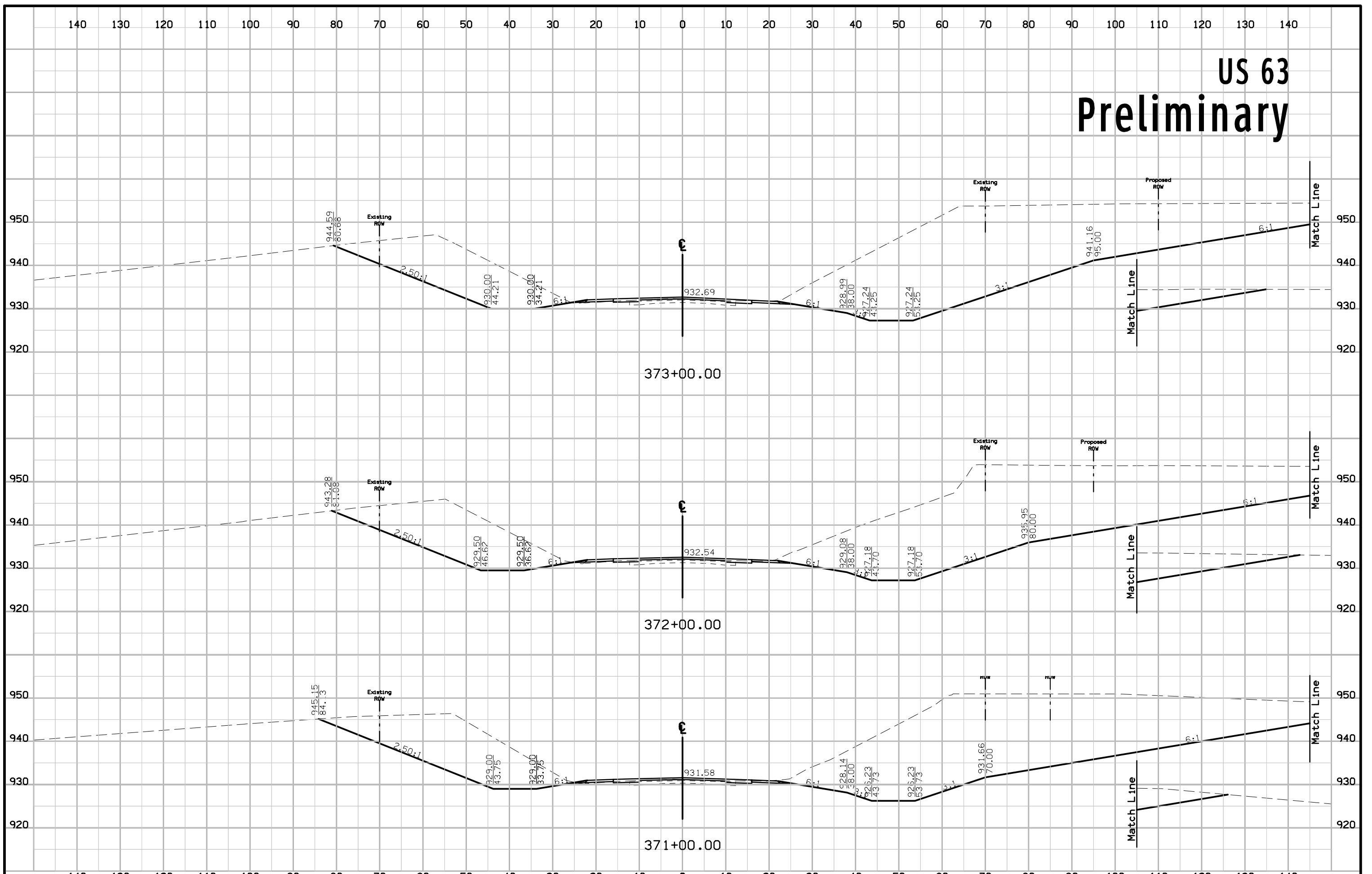
US 63 Preliminary



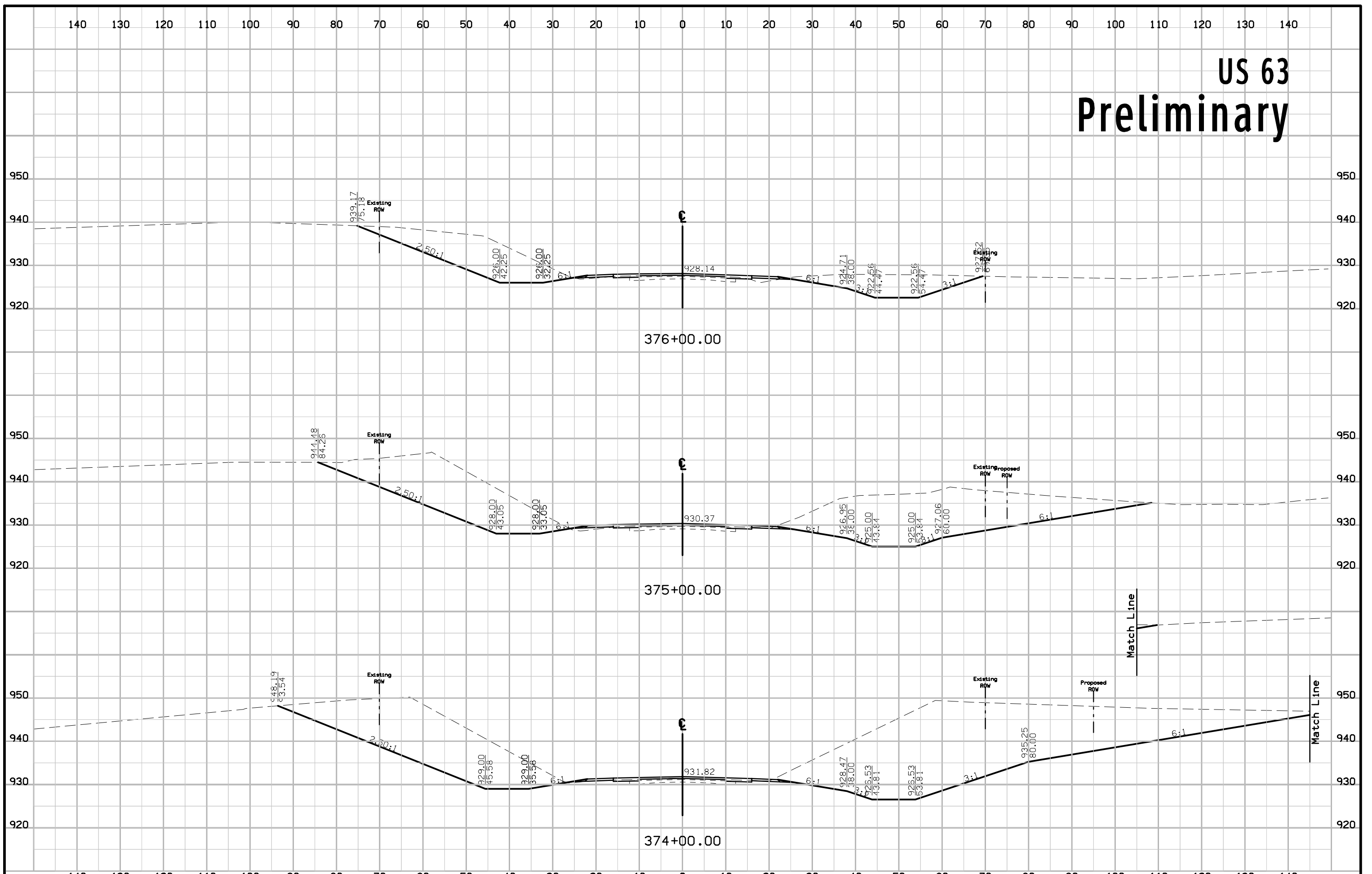
US 63 Preliminary



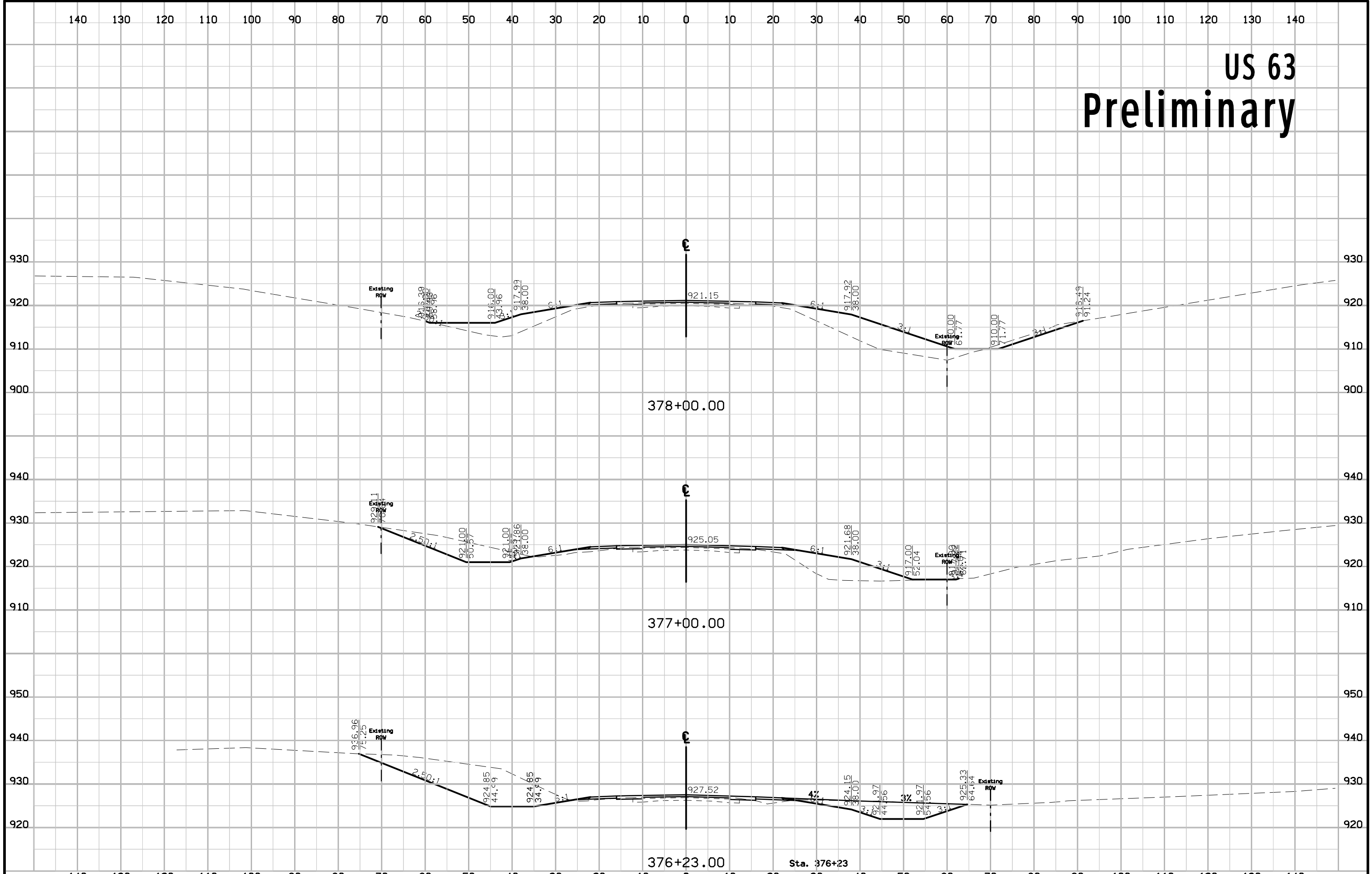
US 63 Preliminary



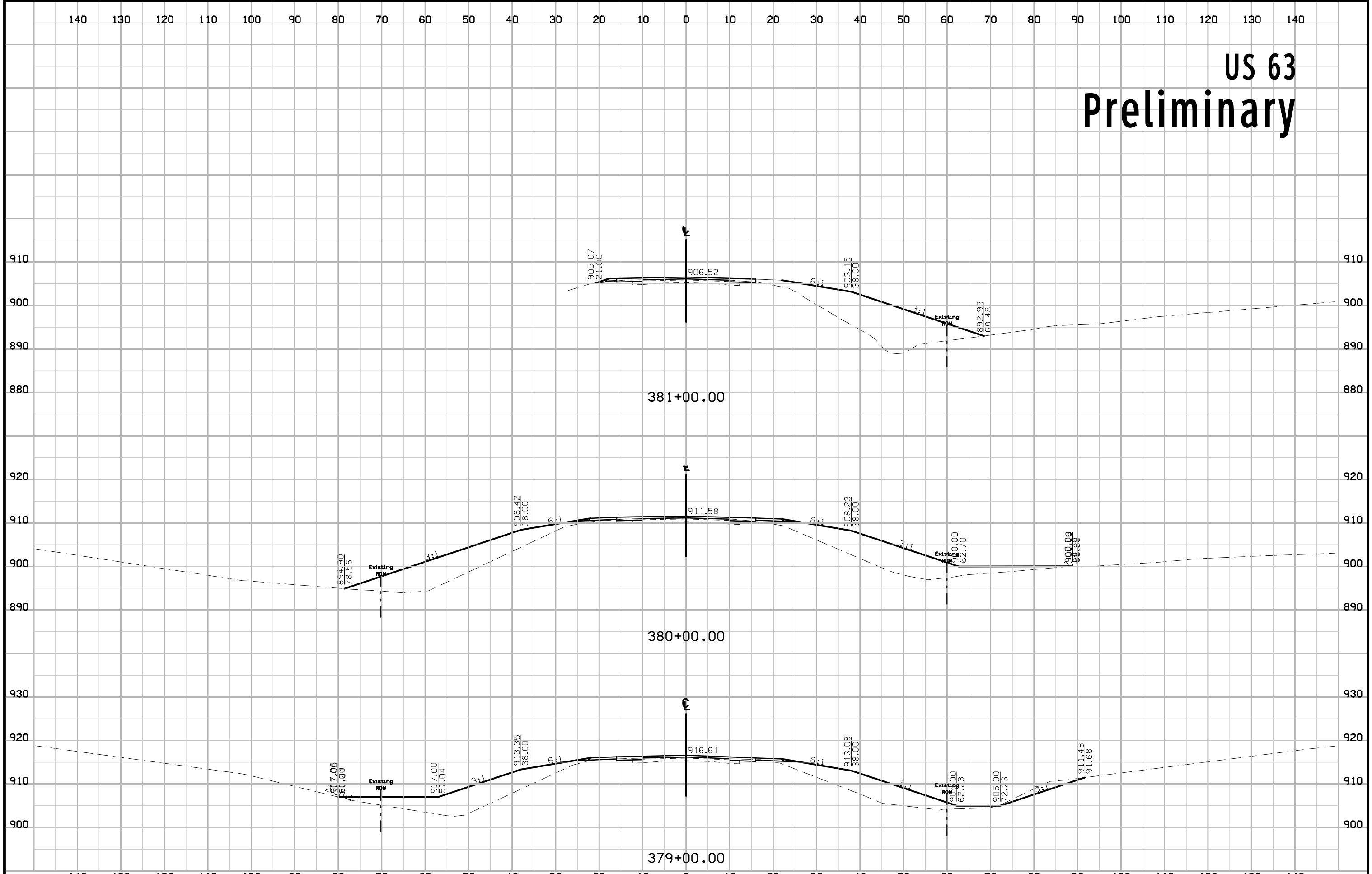
US 63 Preliminary



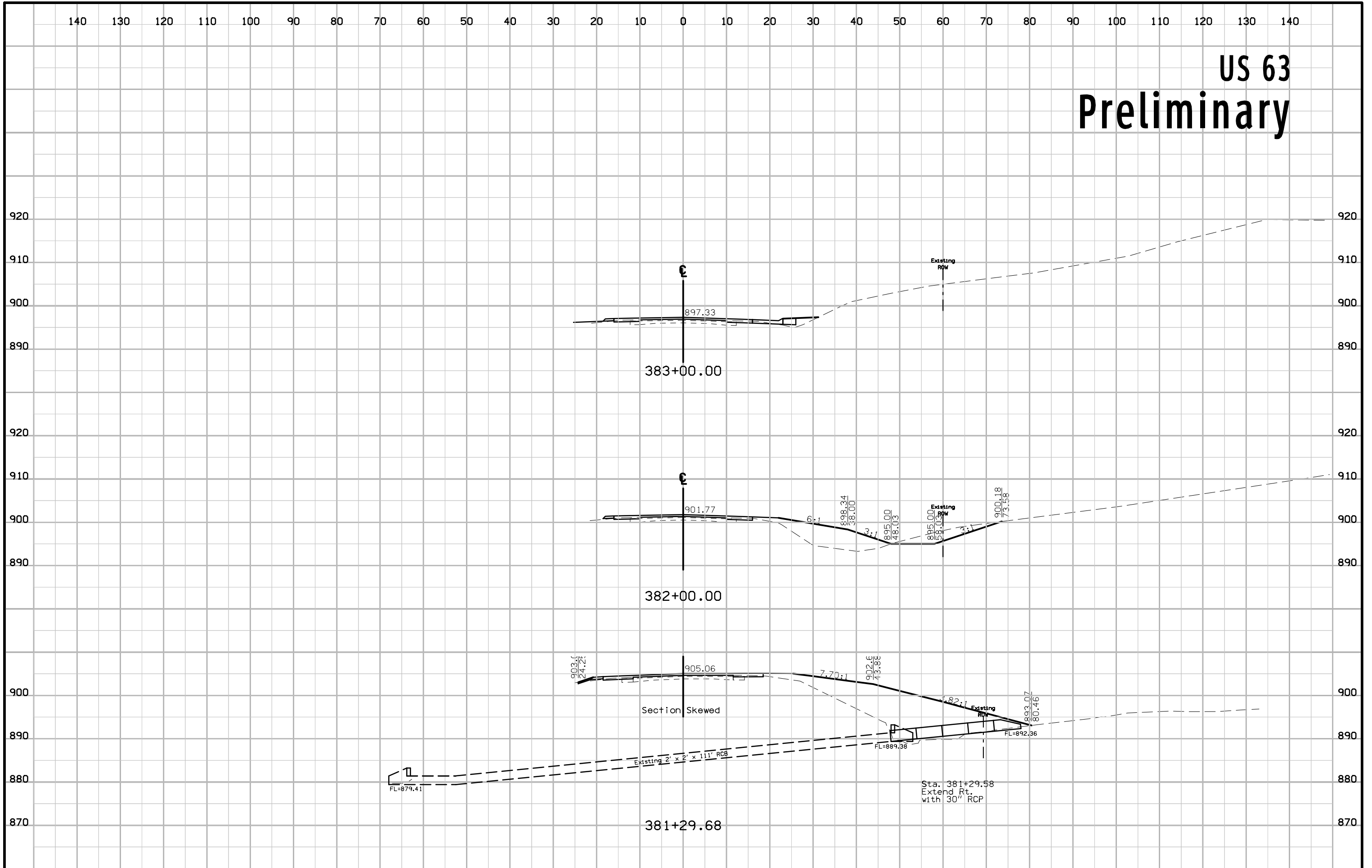
US 63 Preliminary



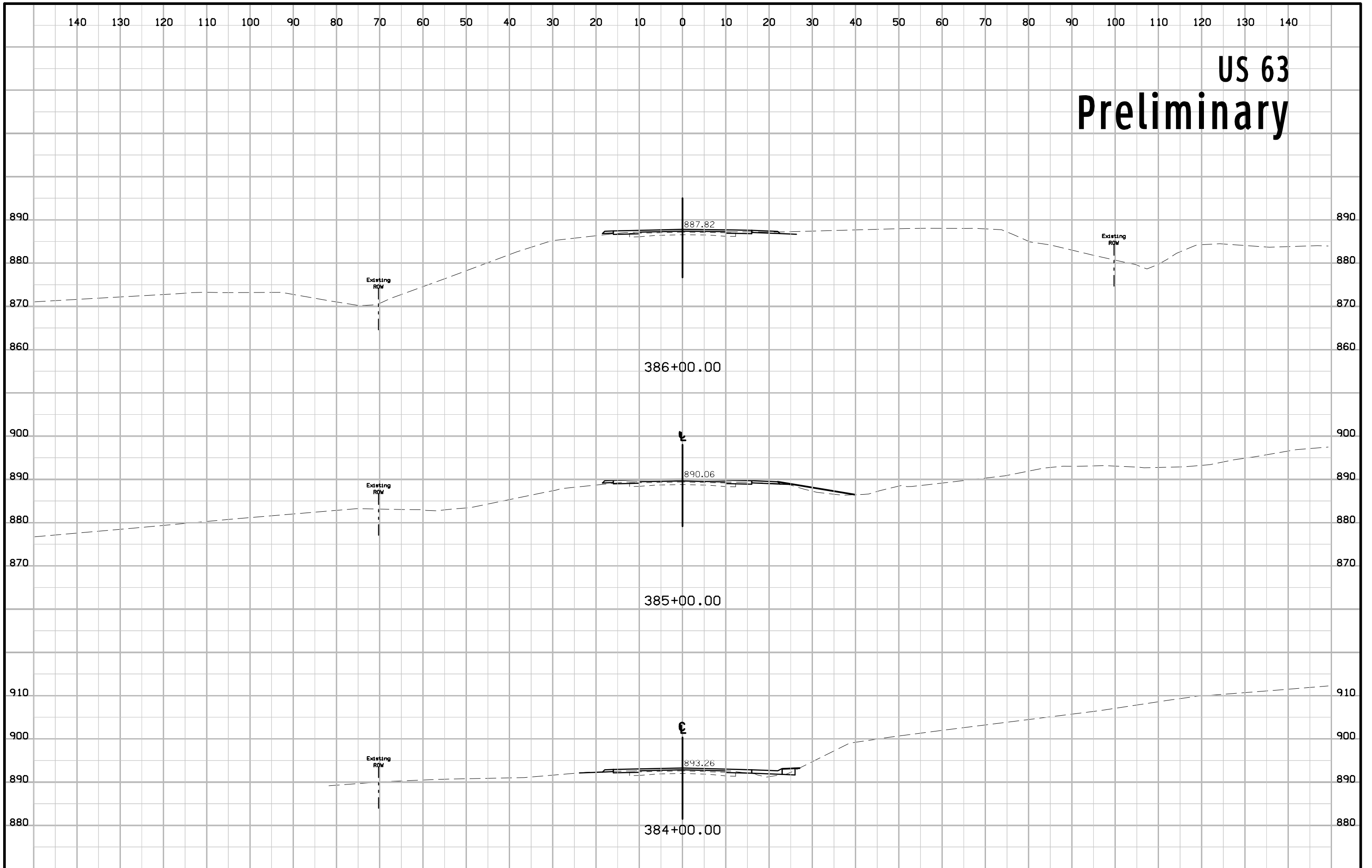
US 63 Preliminary



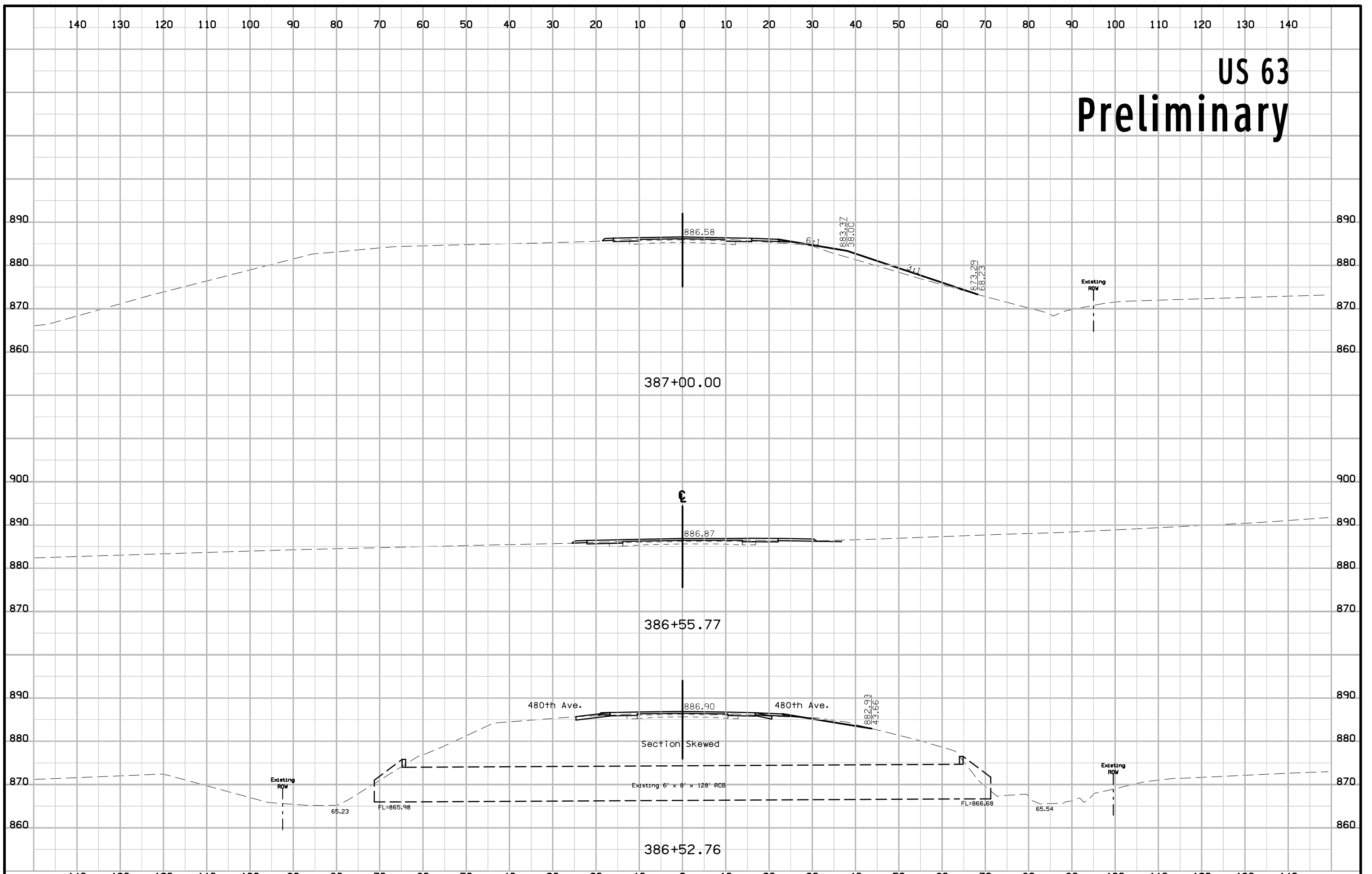
US 63 Preliminary



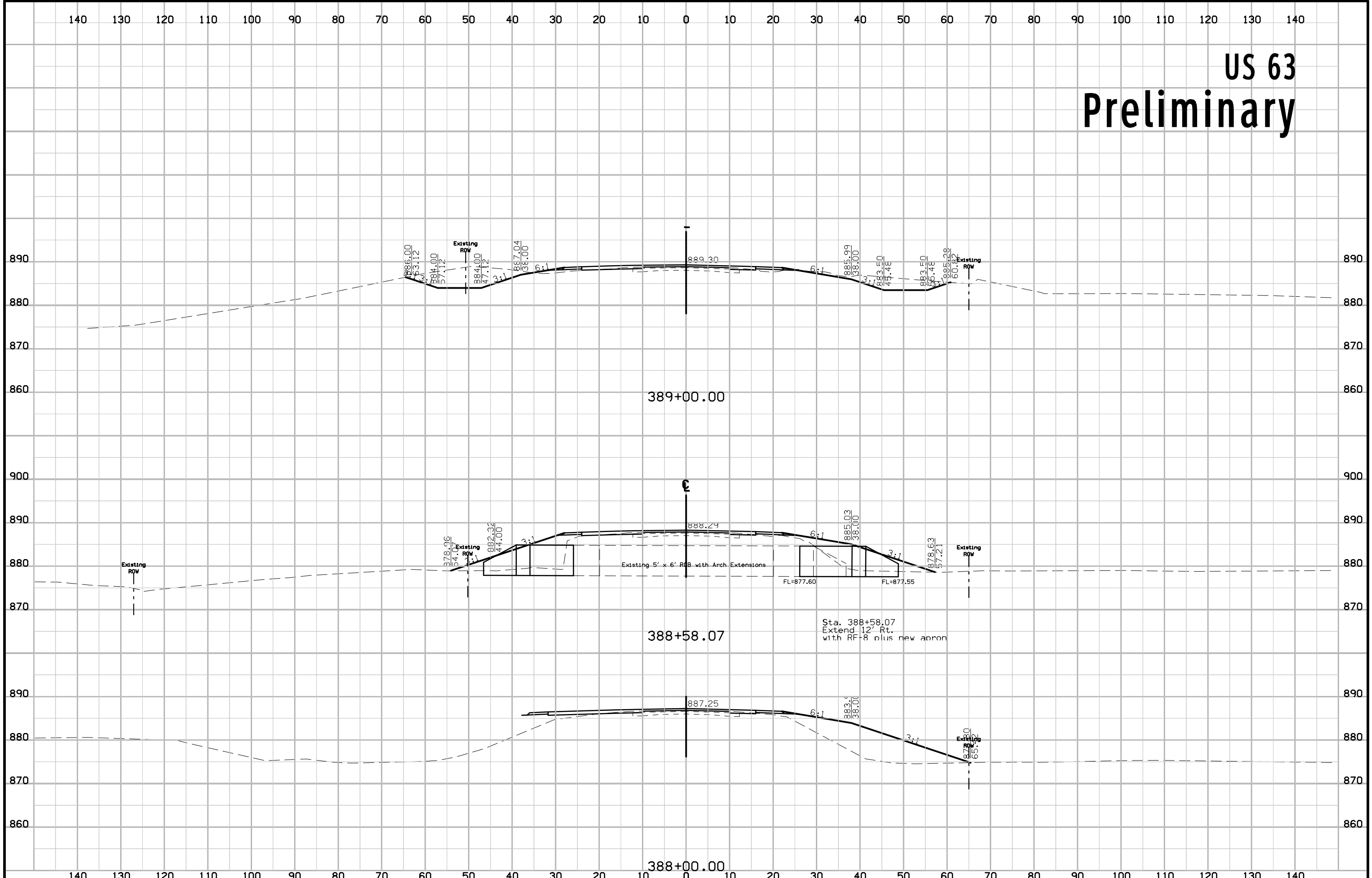
US 63 Preliminary



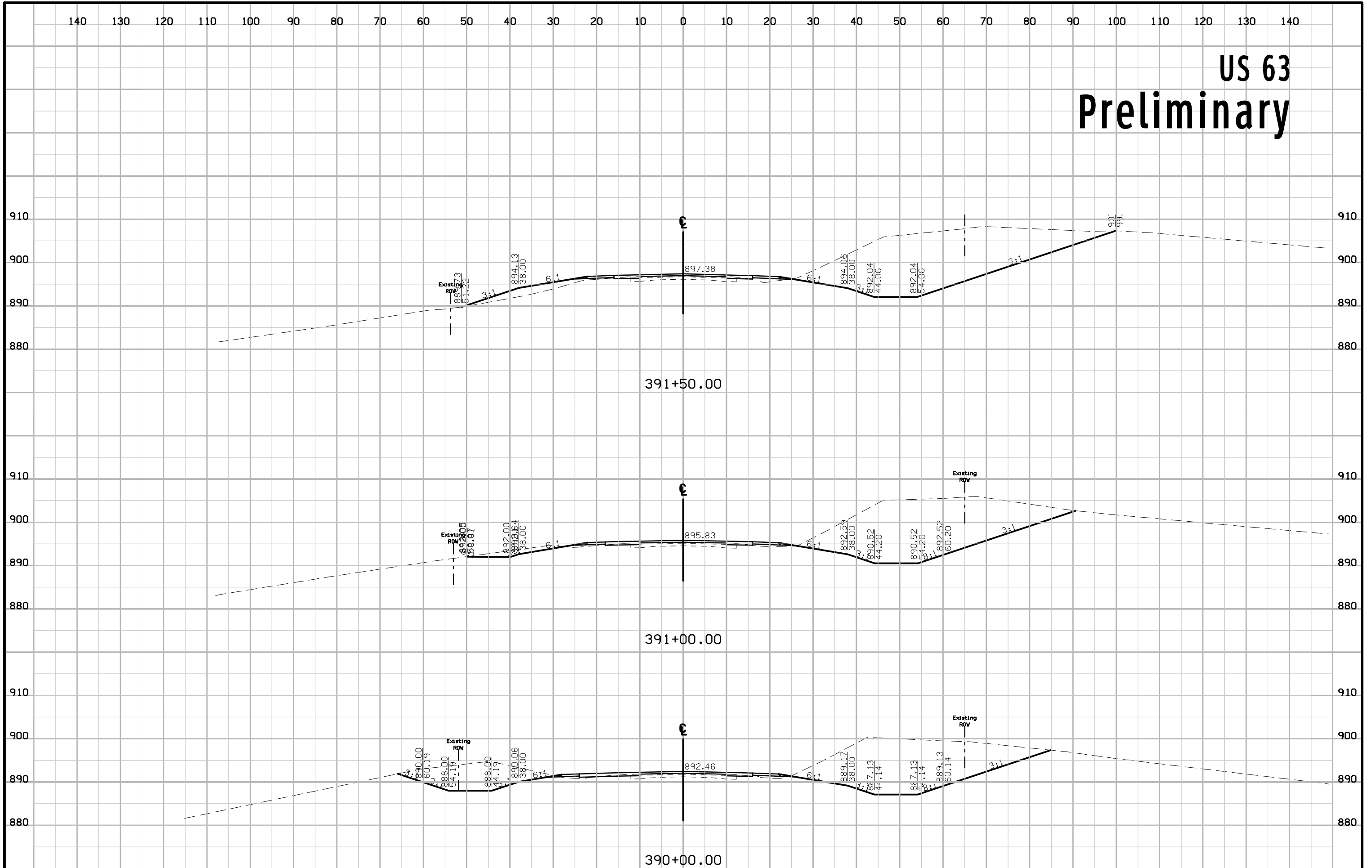
US 63 Preliminary



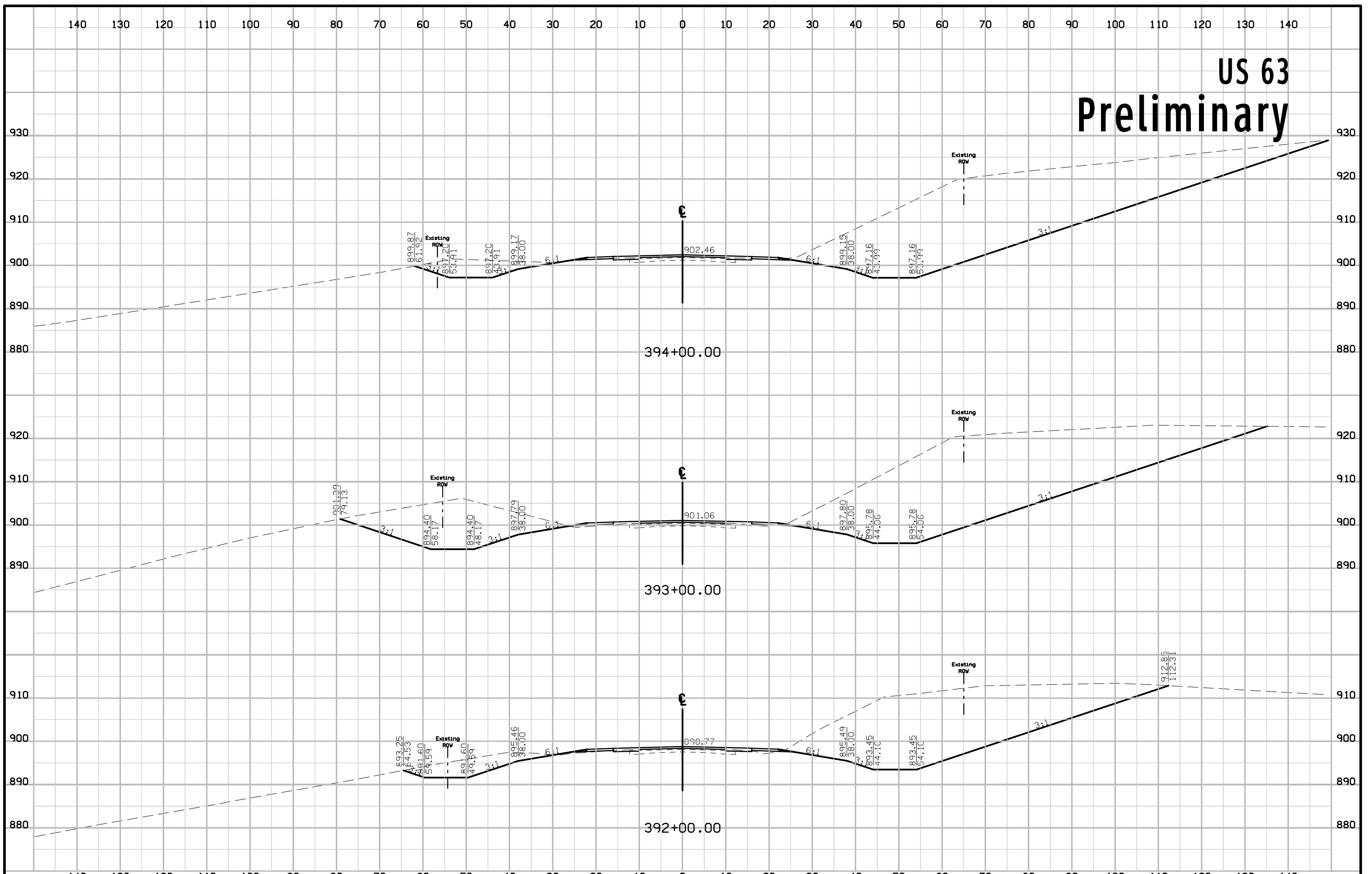
US 63 Preliminary



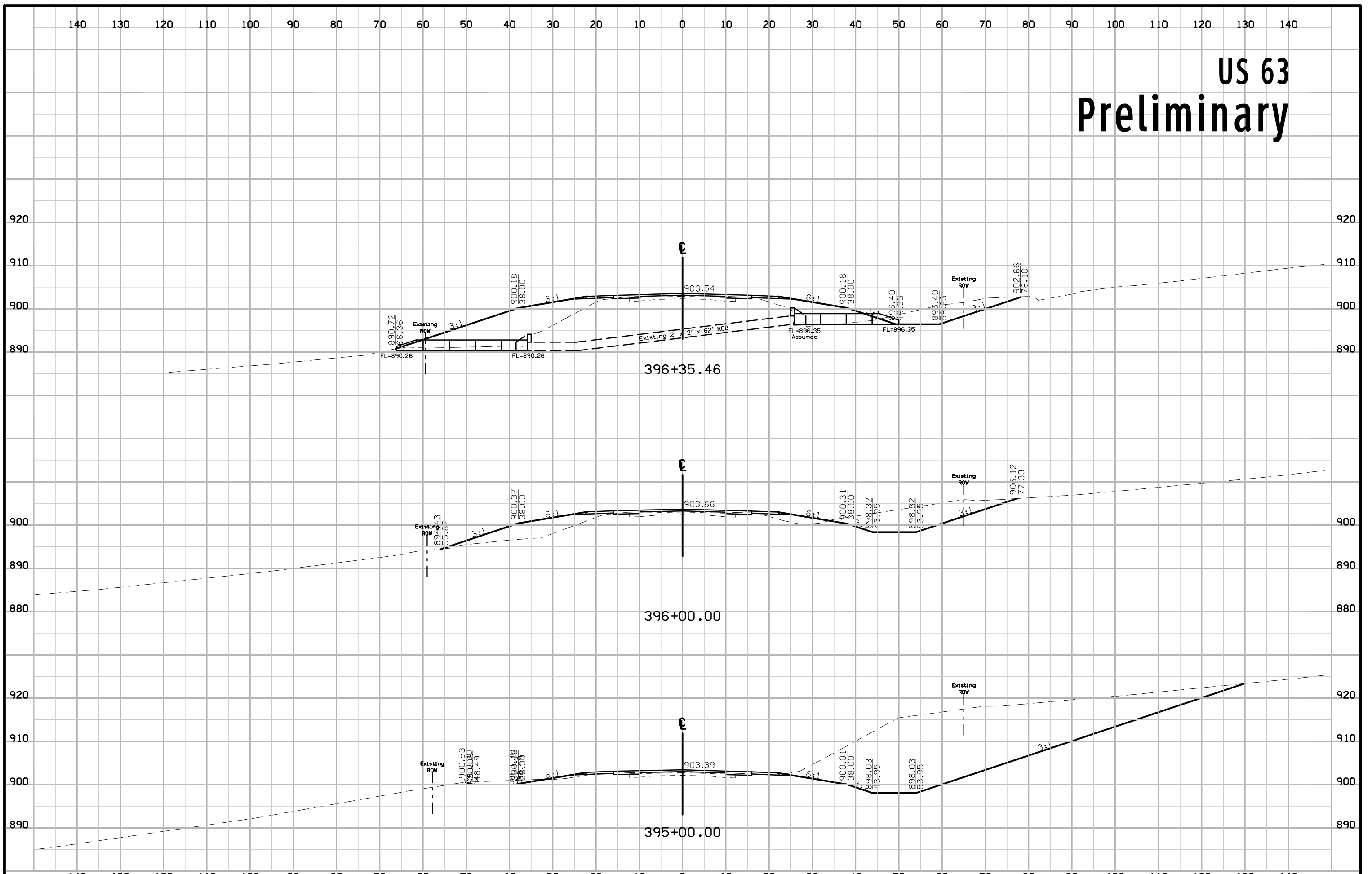
US 63 Preliminary



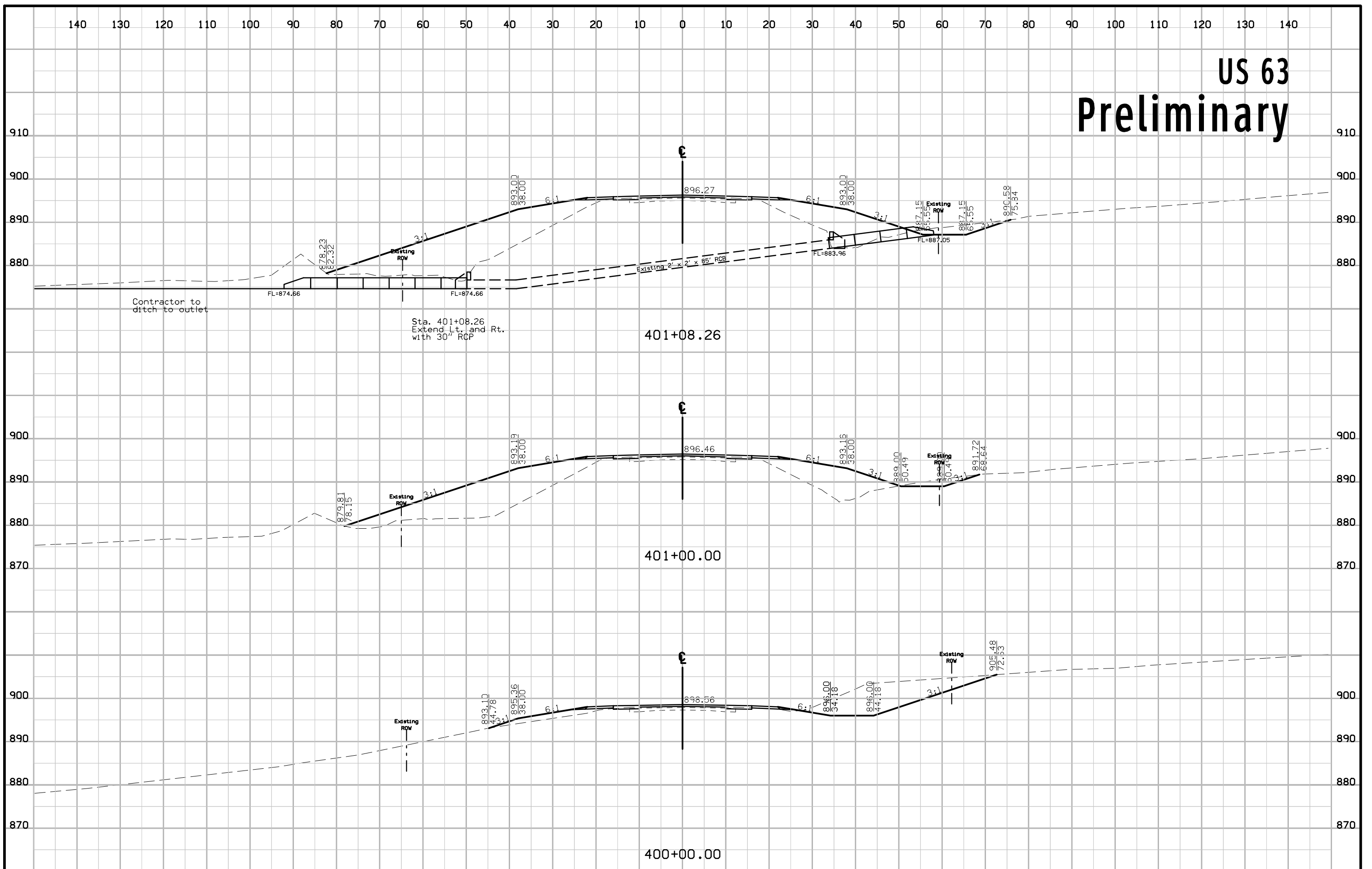
US 63 Preliminary



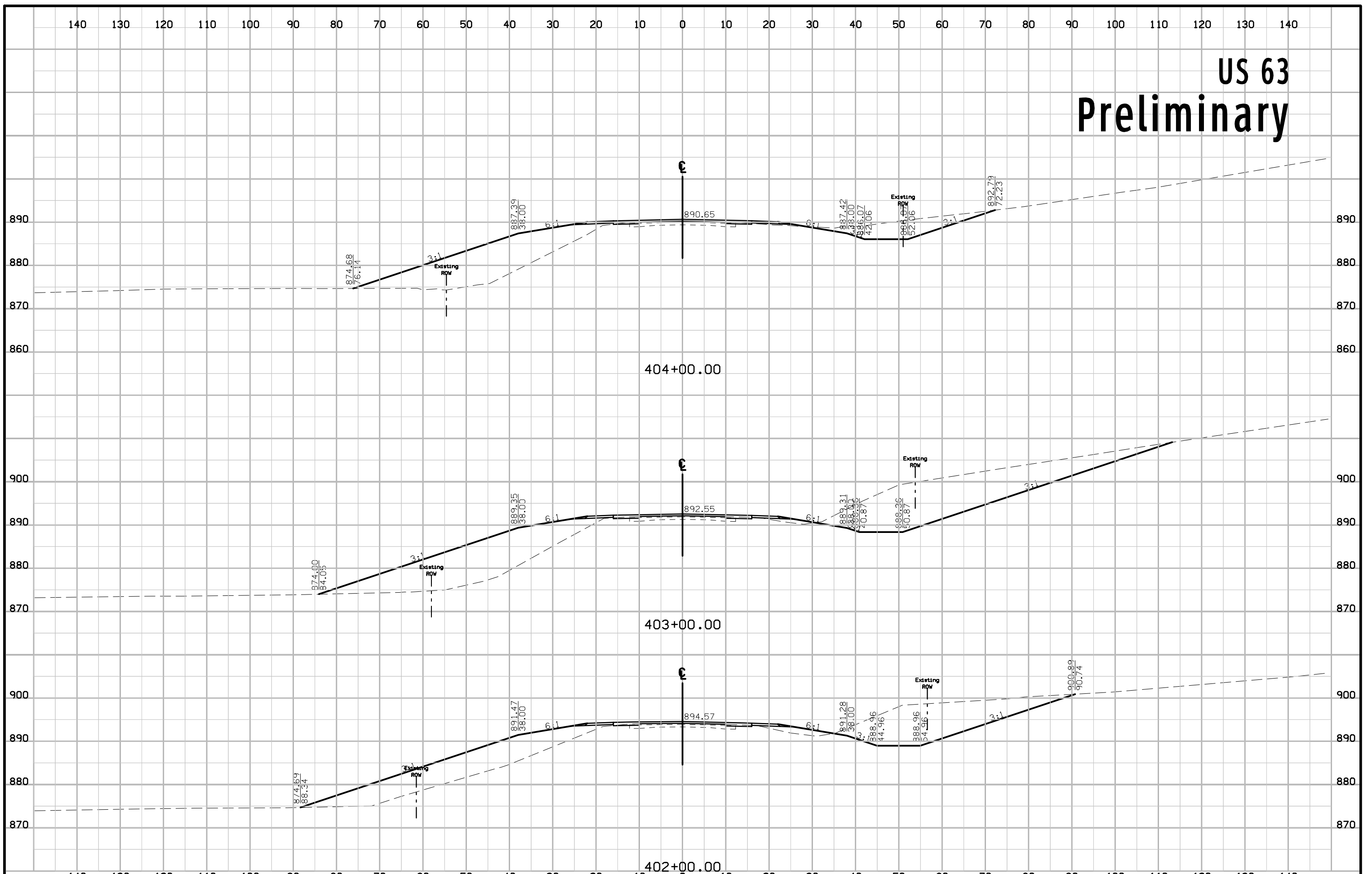
US 63 Preliminary



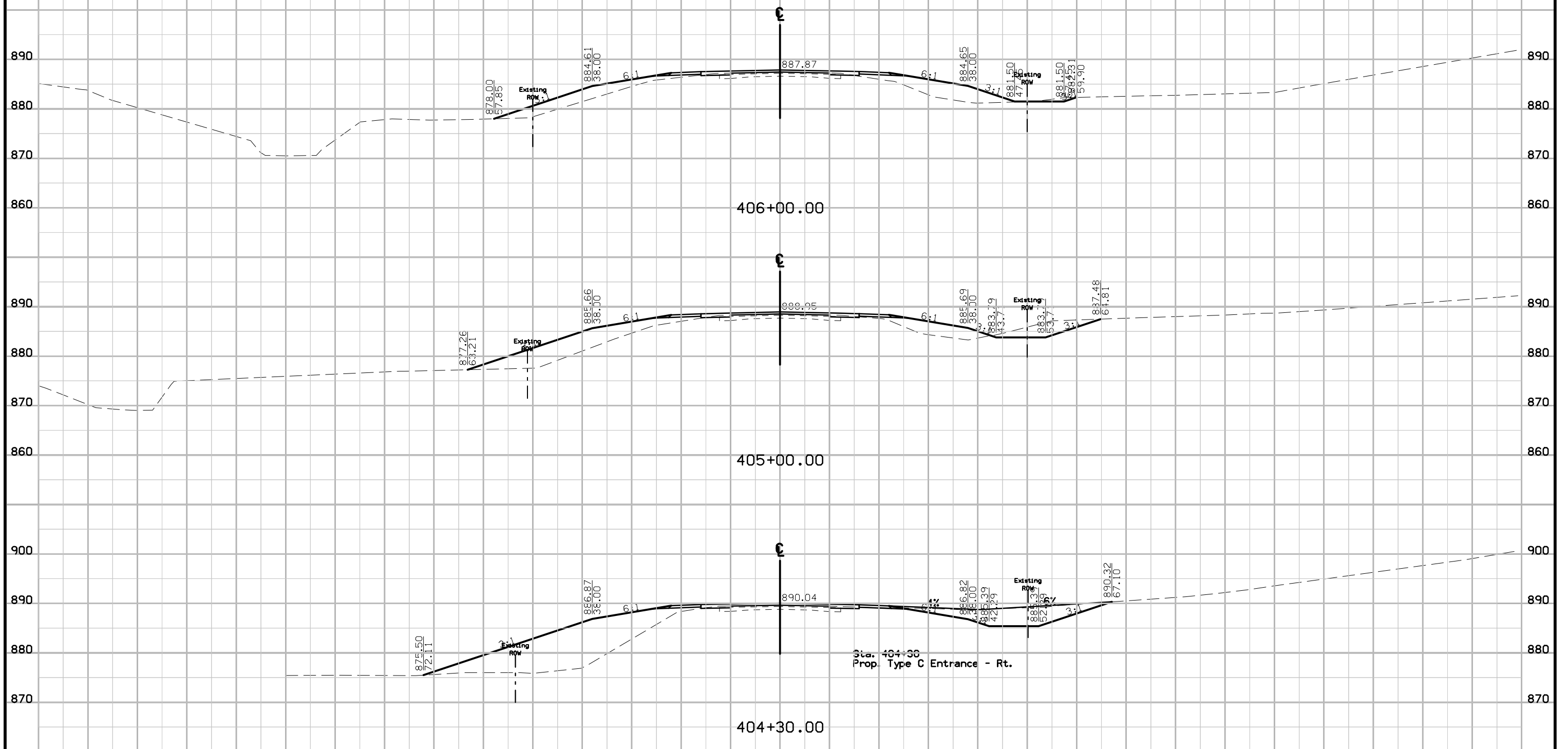
US 63 Preliminary



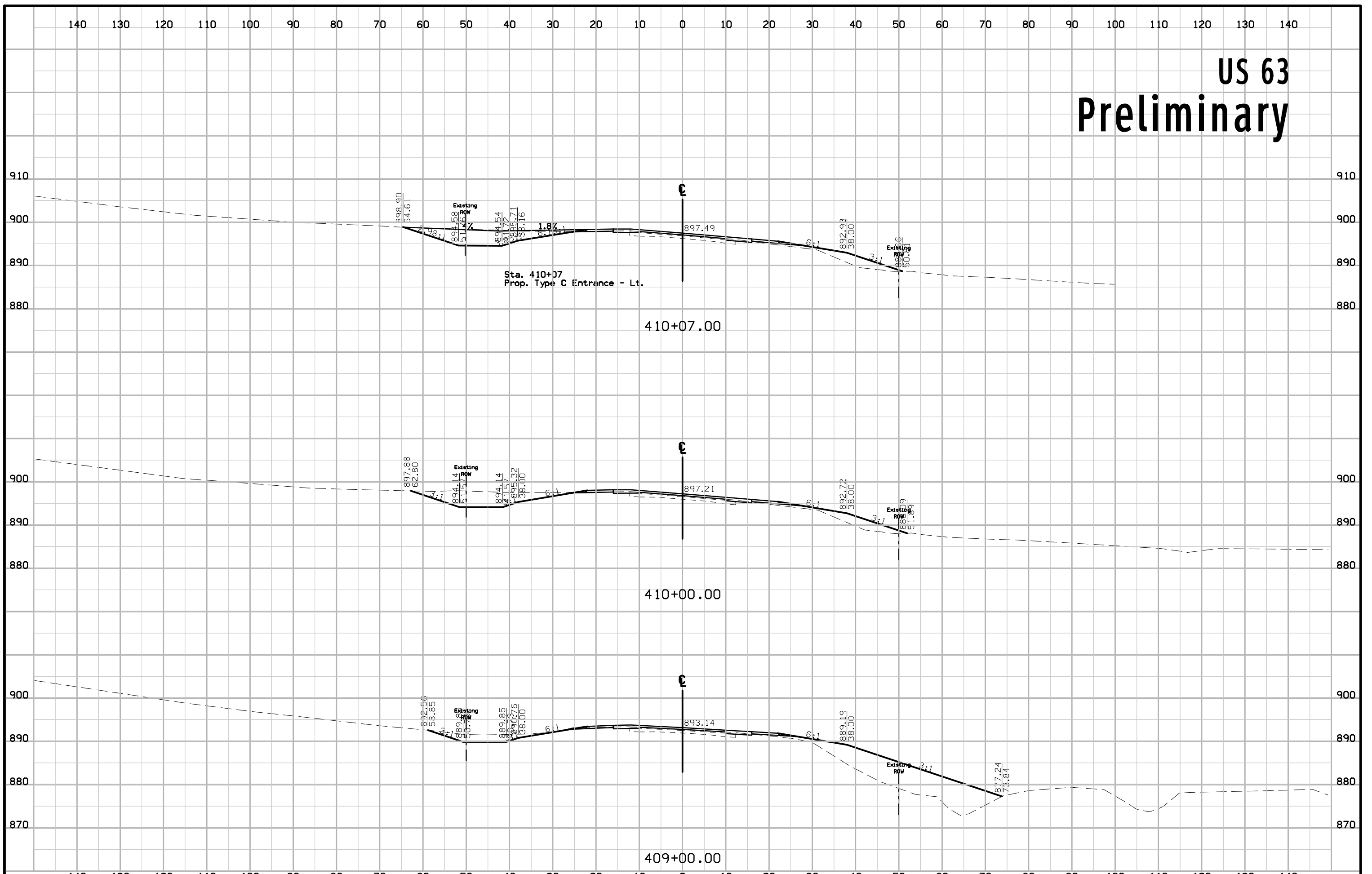
US 63 Preliminary



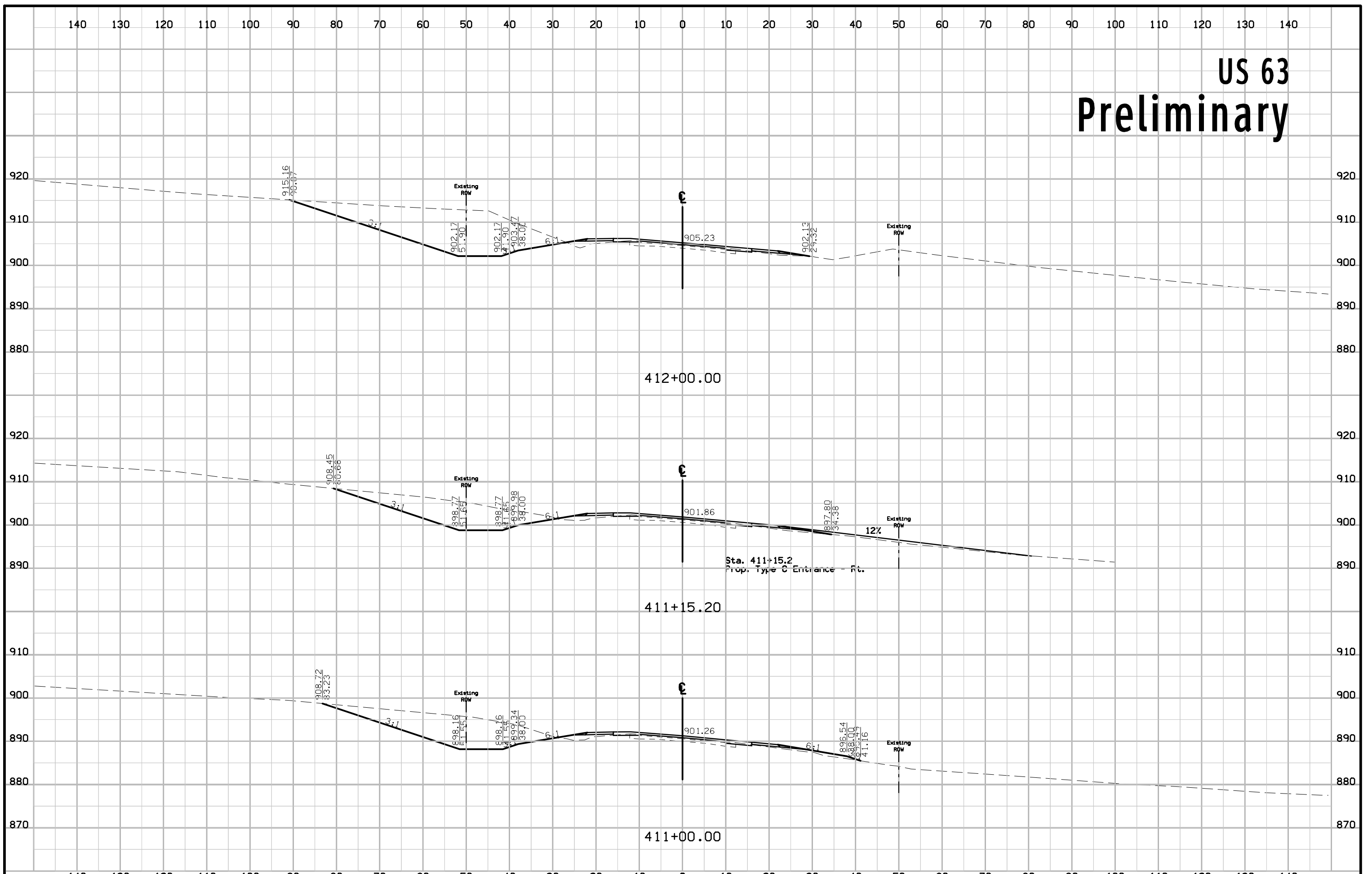
US 63 Preliminary



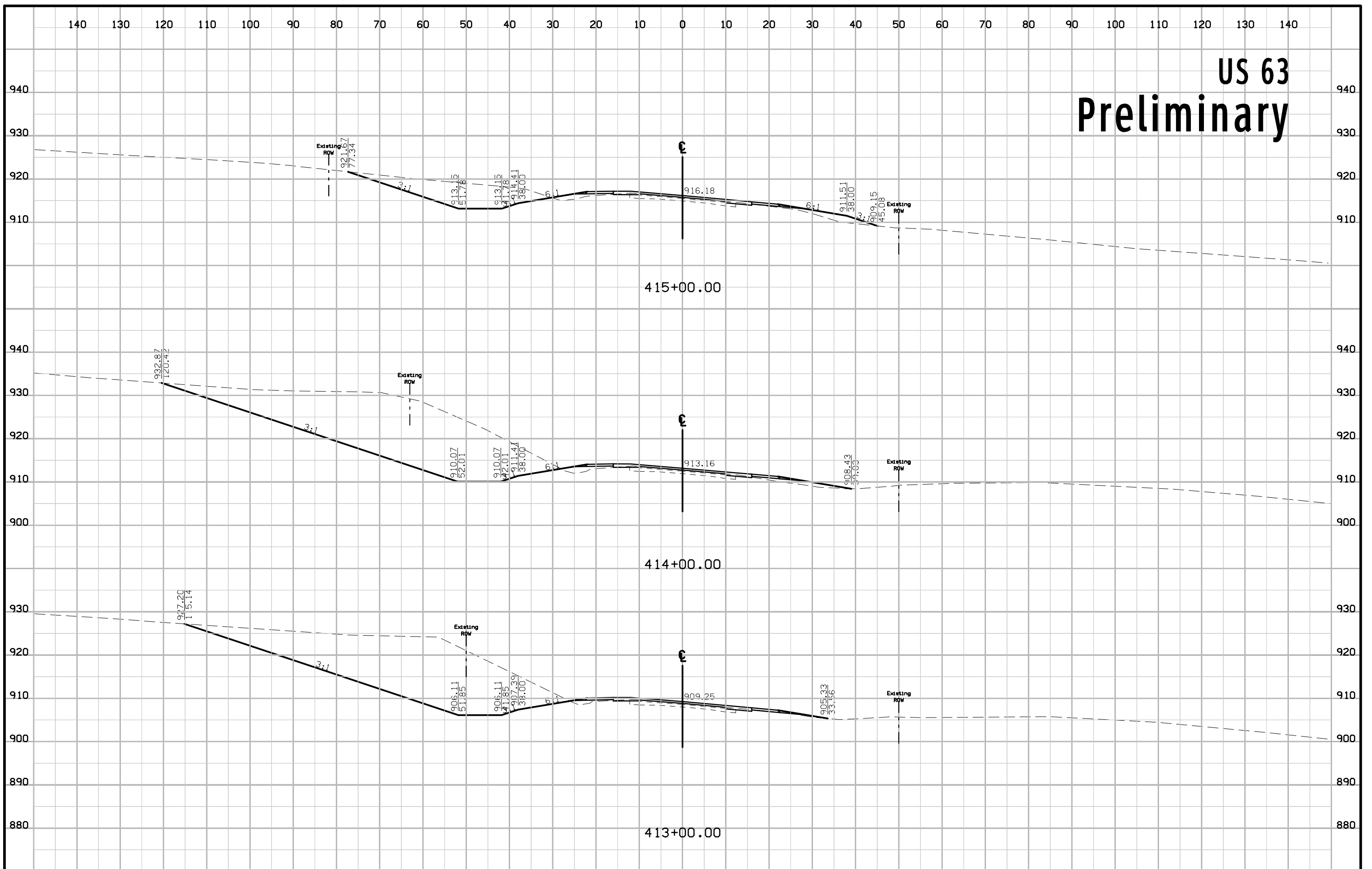
US 63 Preliminary



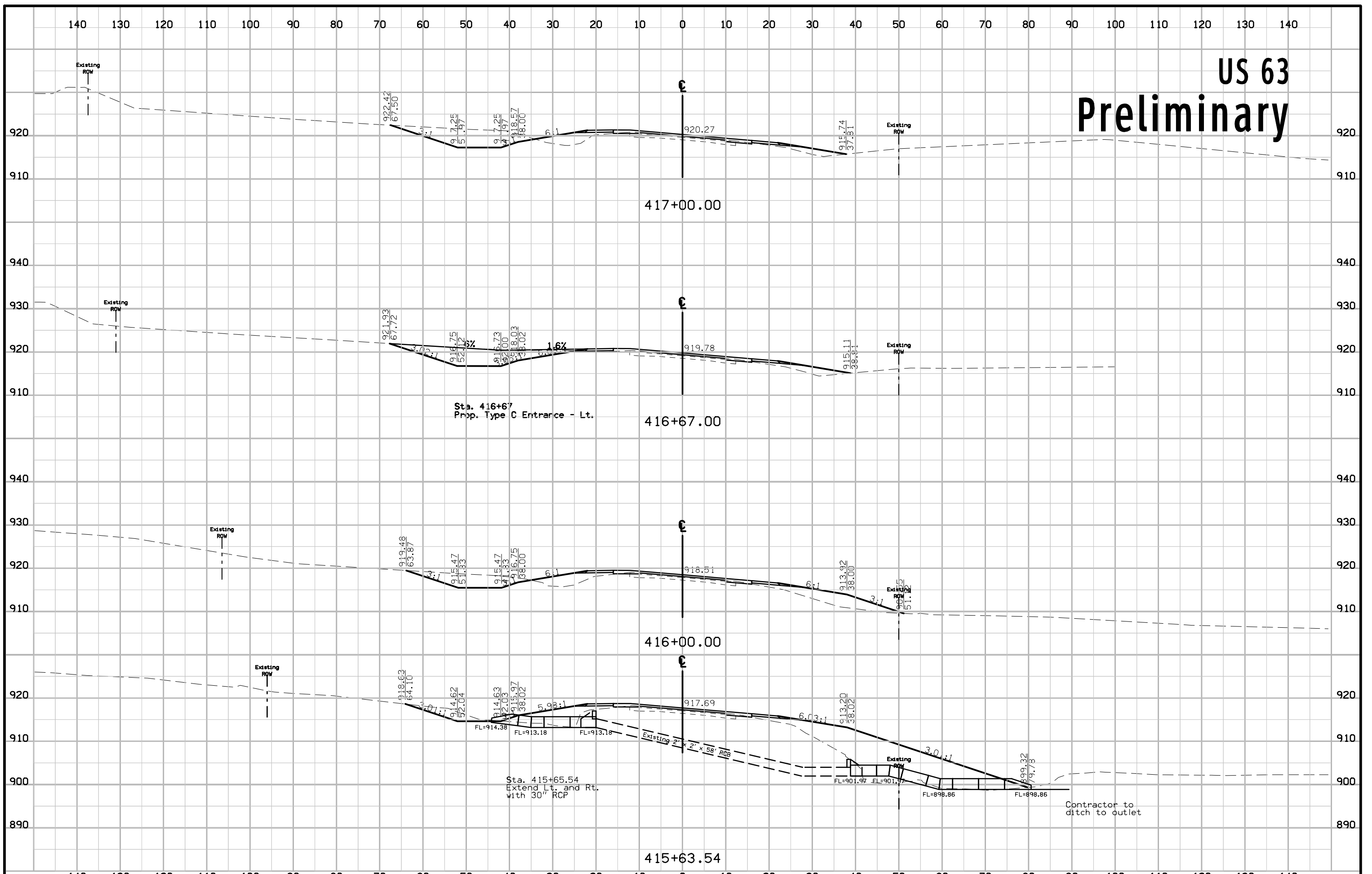
US 63 Preliminary



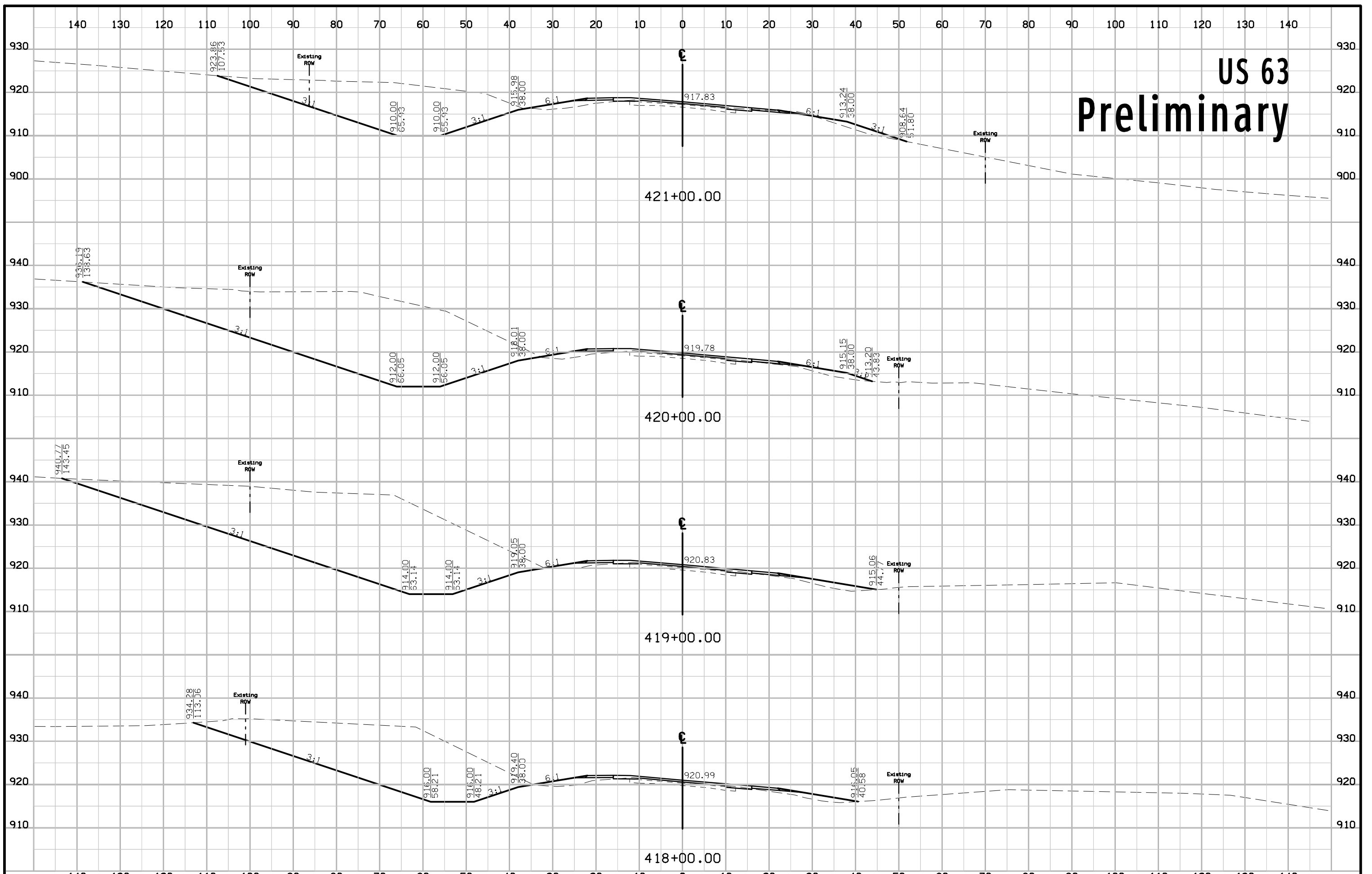
US 63 Preliminary



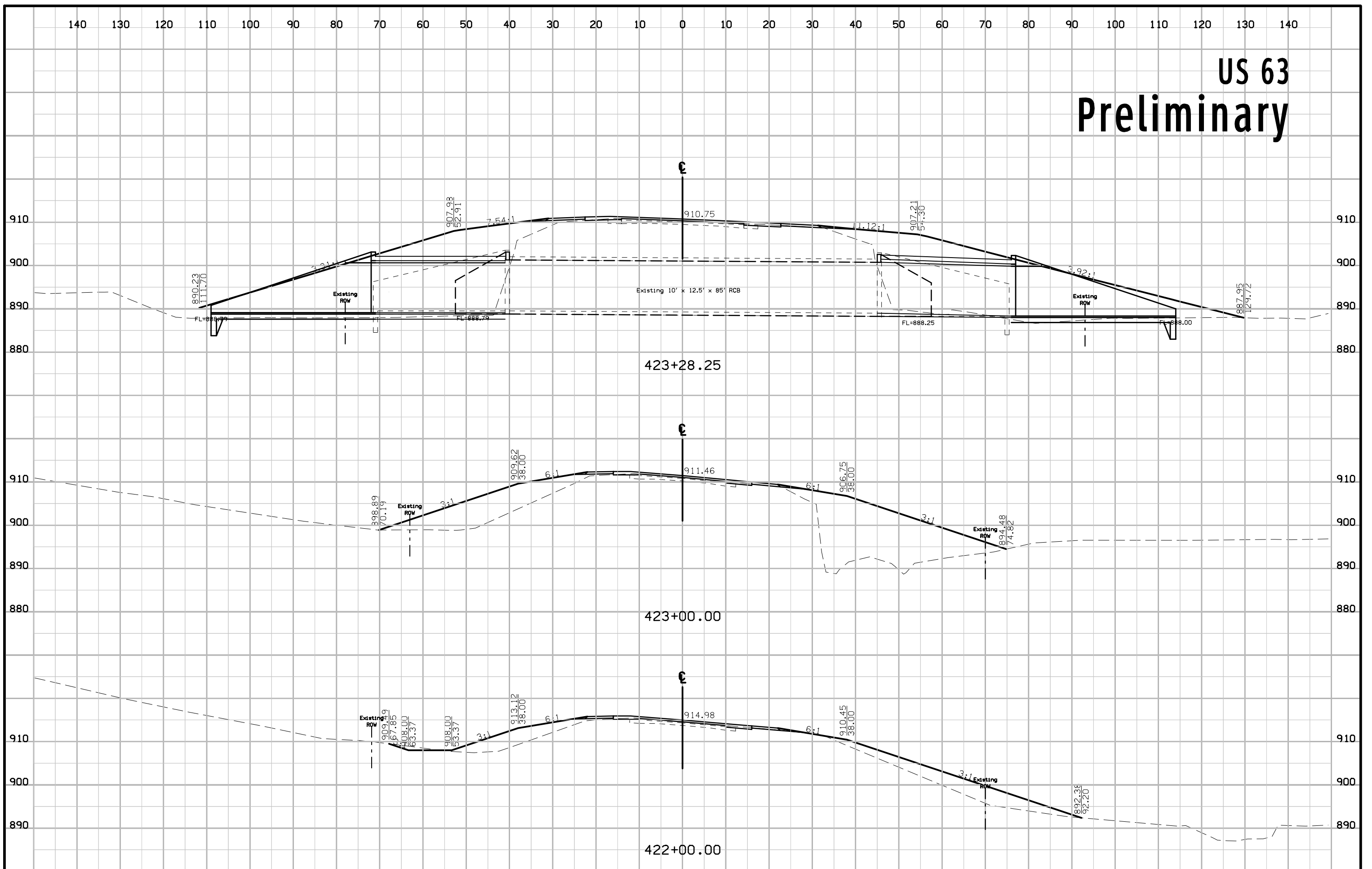
US 63 Preliminary



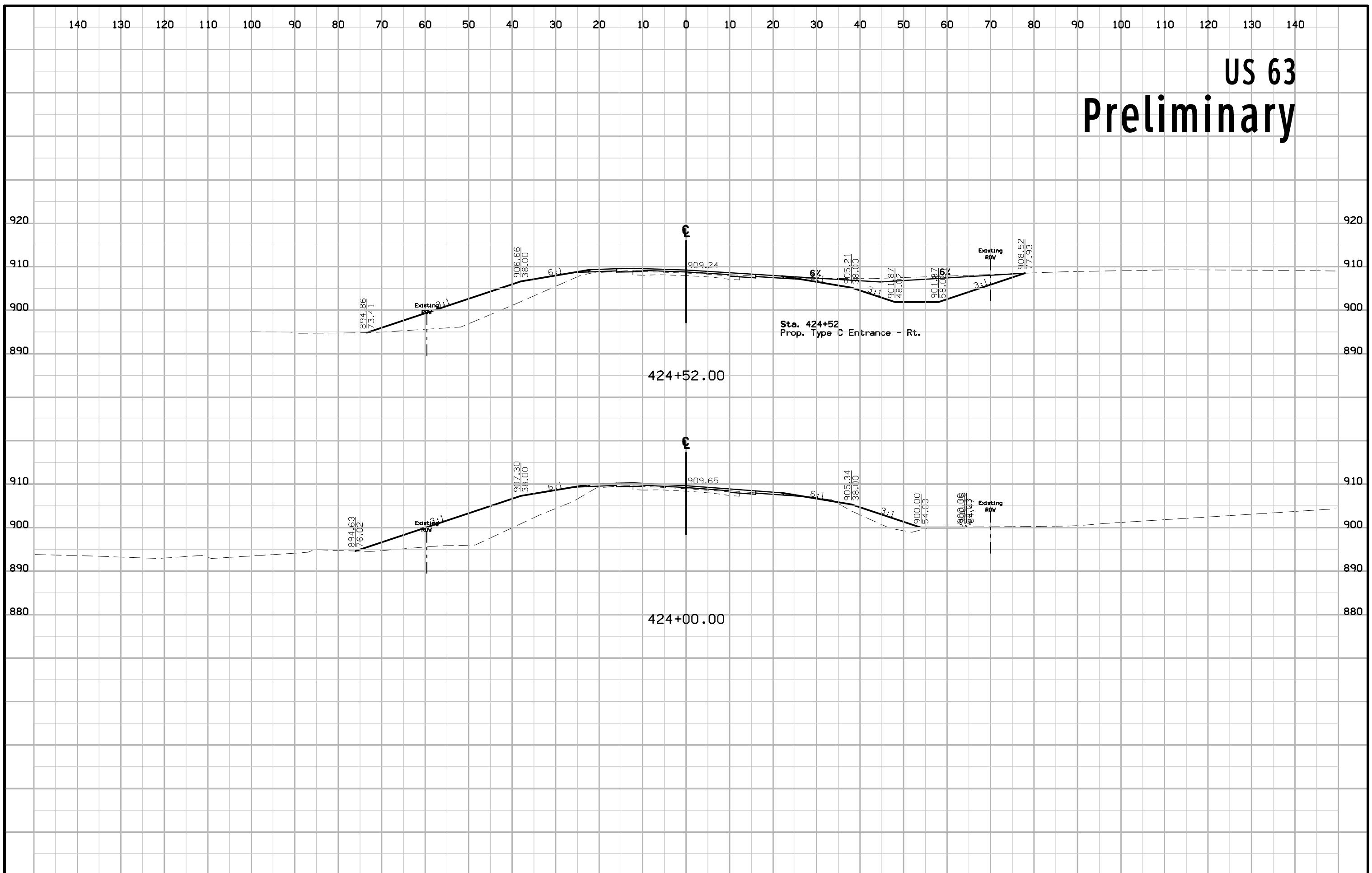
US 63 Preliminary



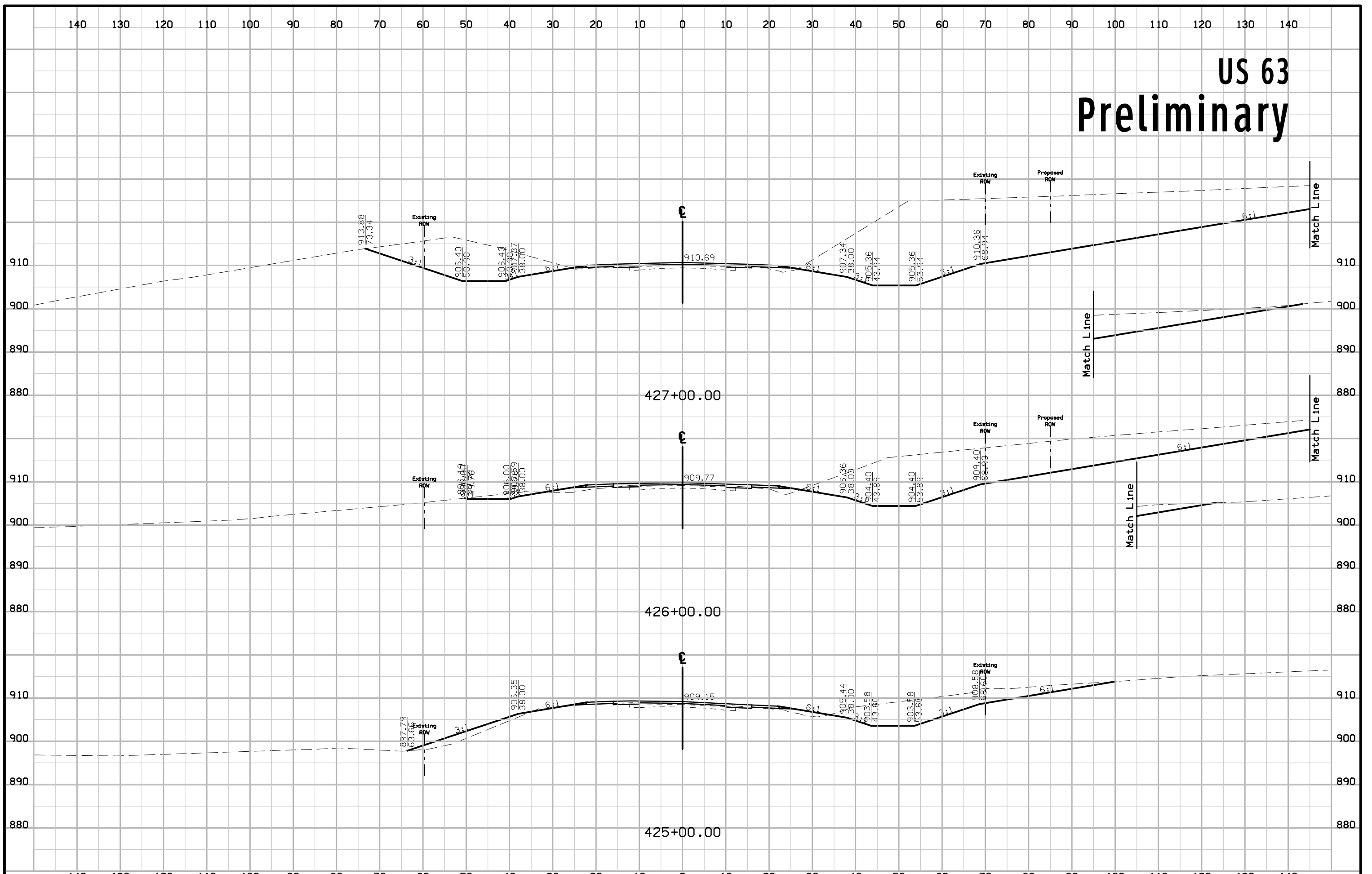
US 63 Preliminary

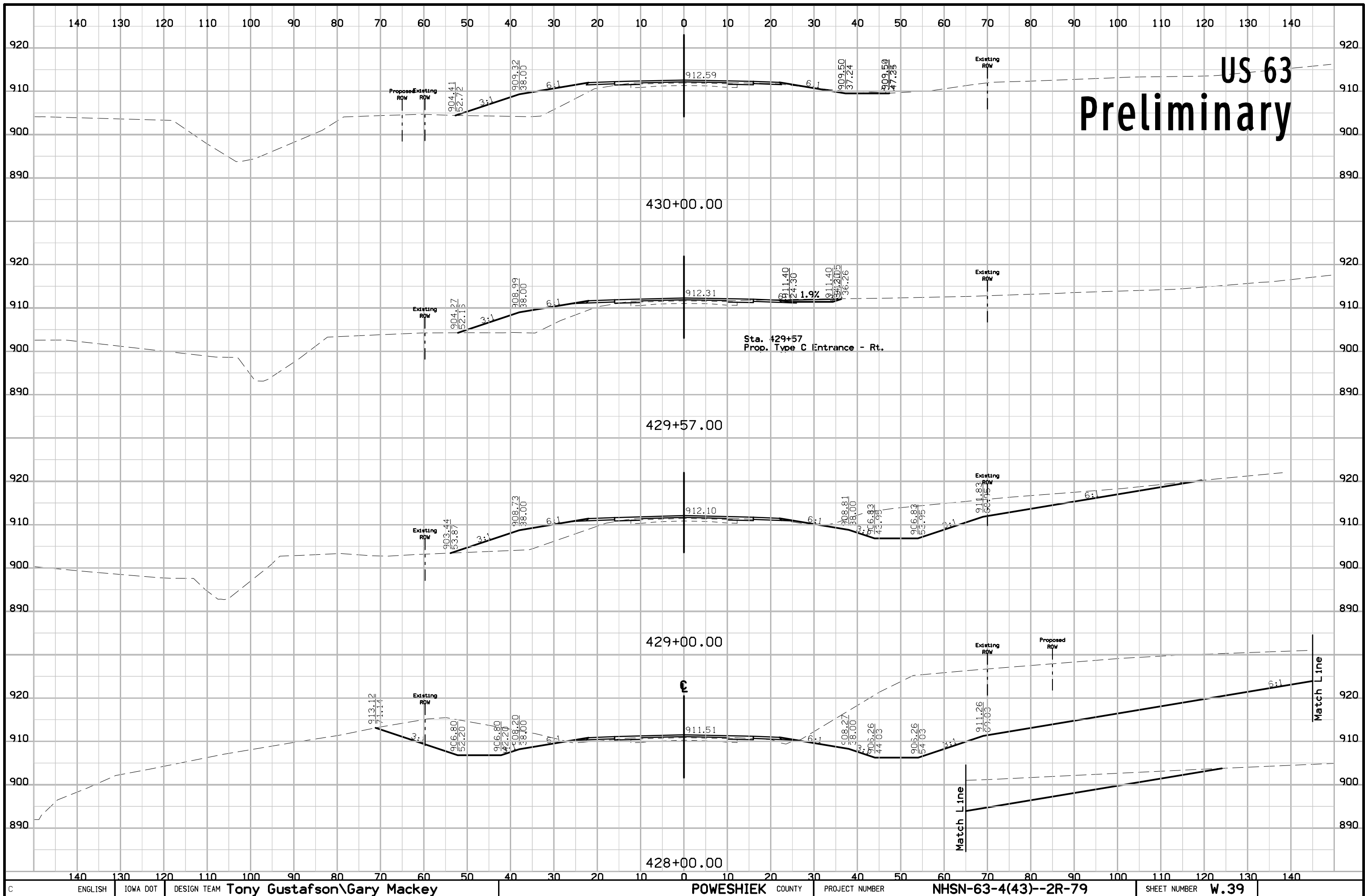


US 63 Preliminary



US 63 Preliminary





US 63 Preliminary

430+00.00

429+57.00

429+00.00

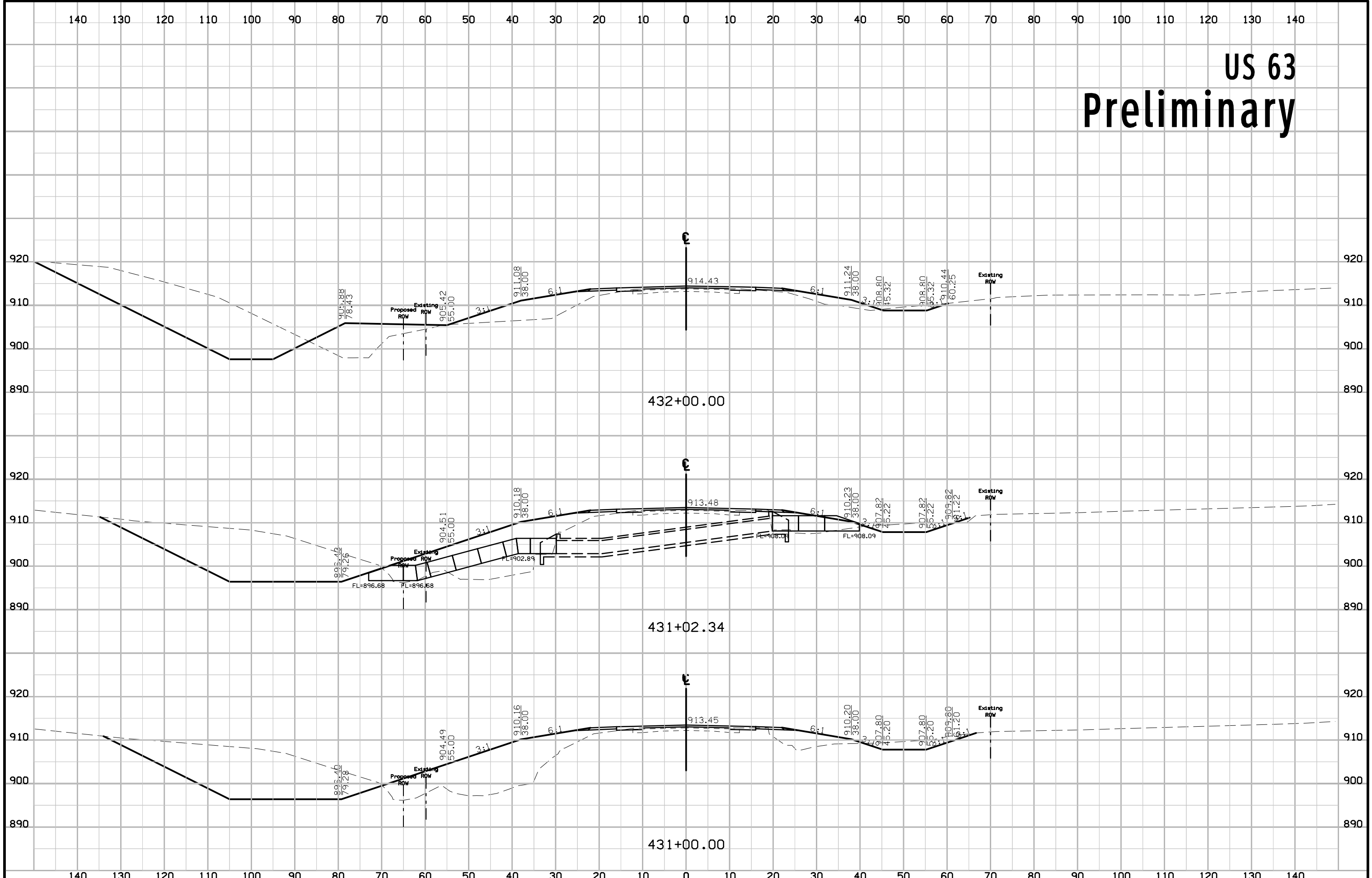
428+00.00

Sta. 429+57
Prop. Type C Entrance - Rt.

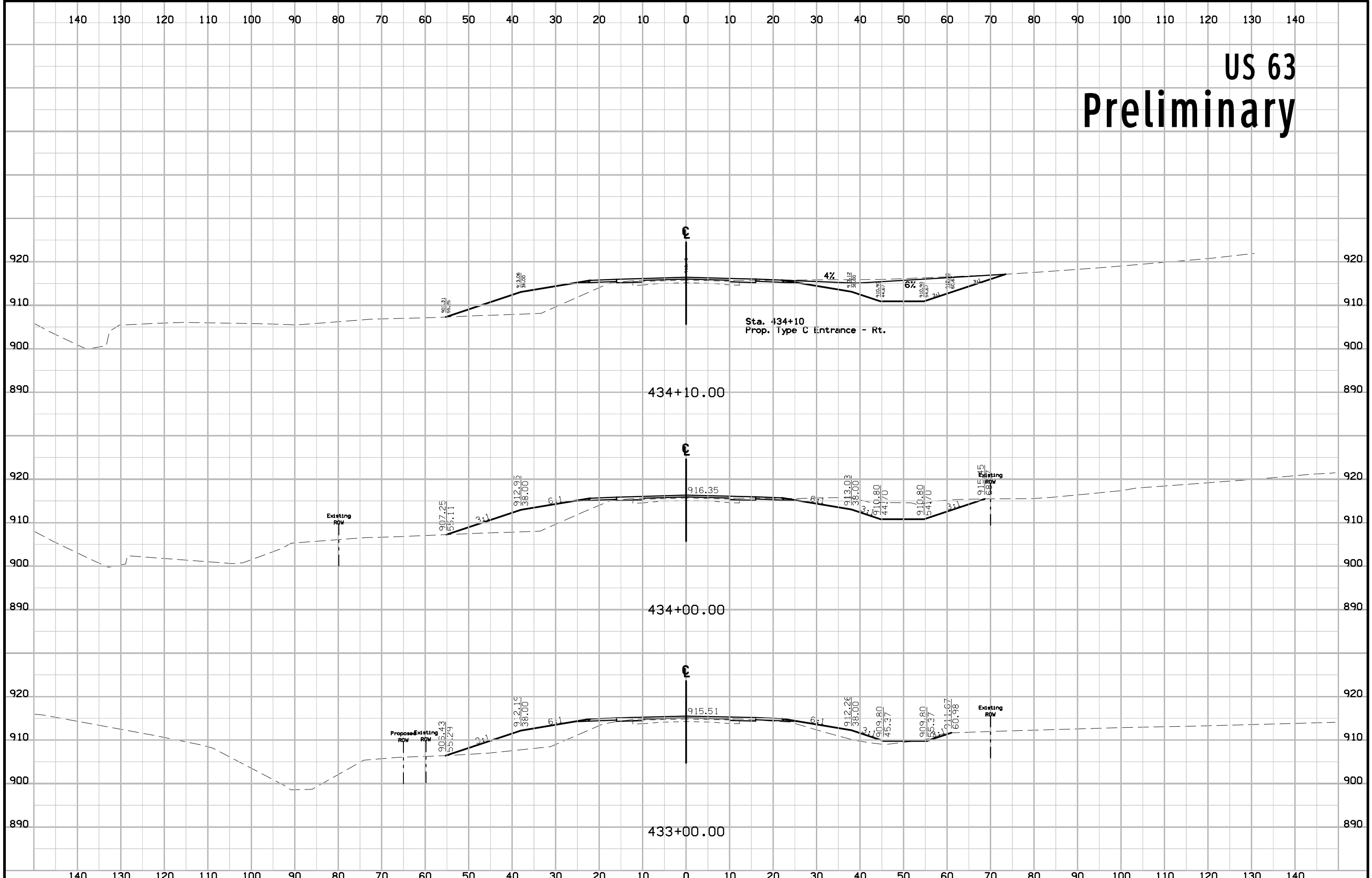
Match Line

Match Line

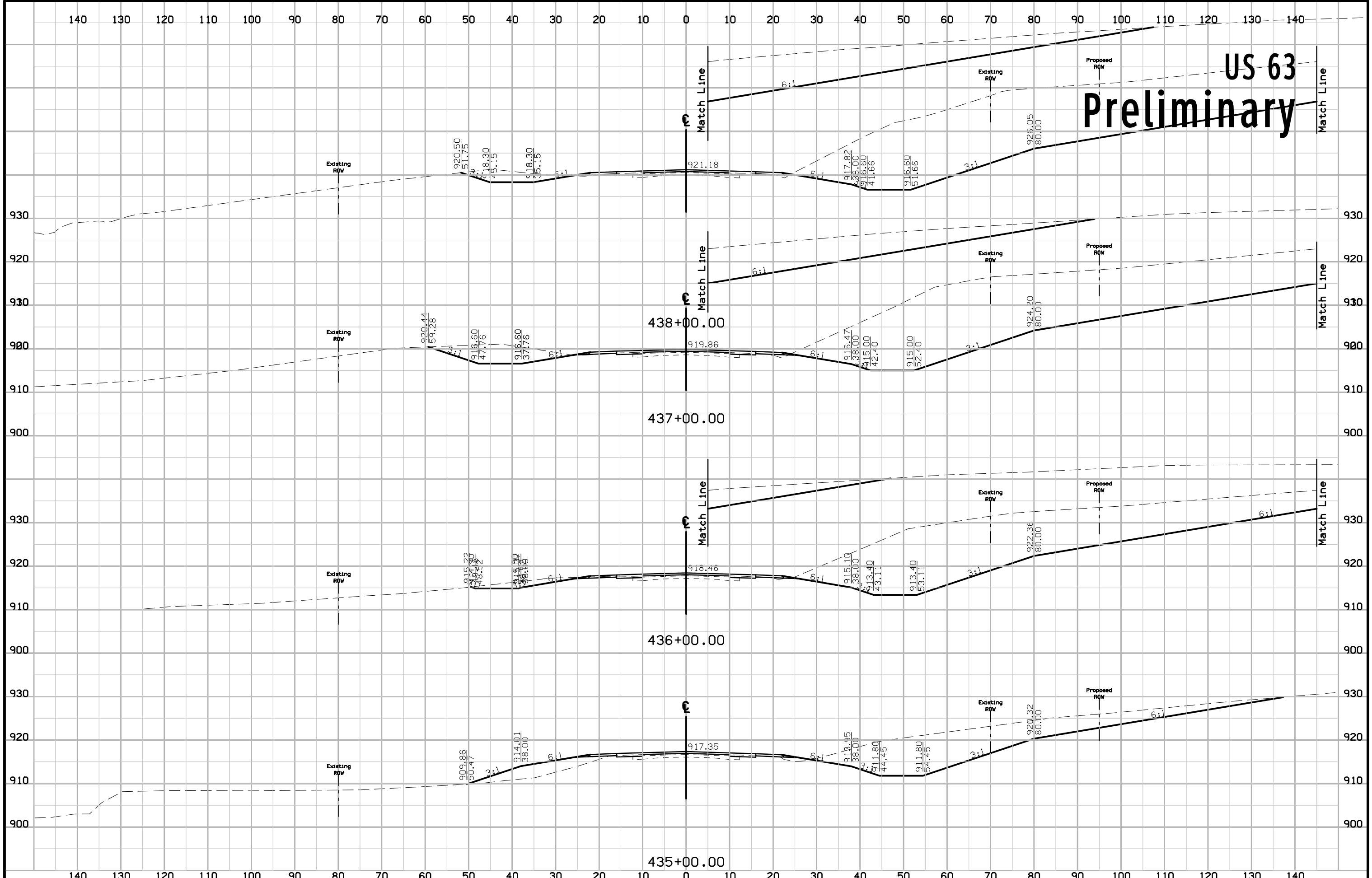
US 63 Preliminary



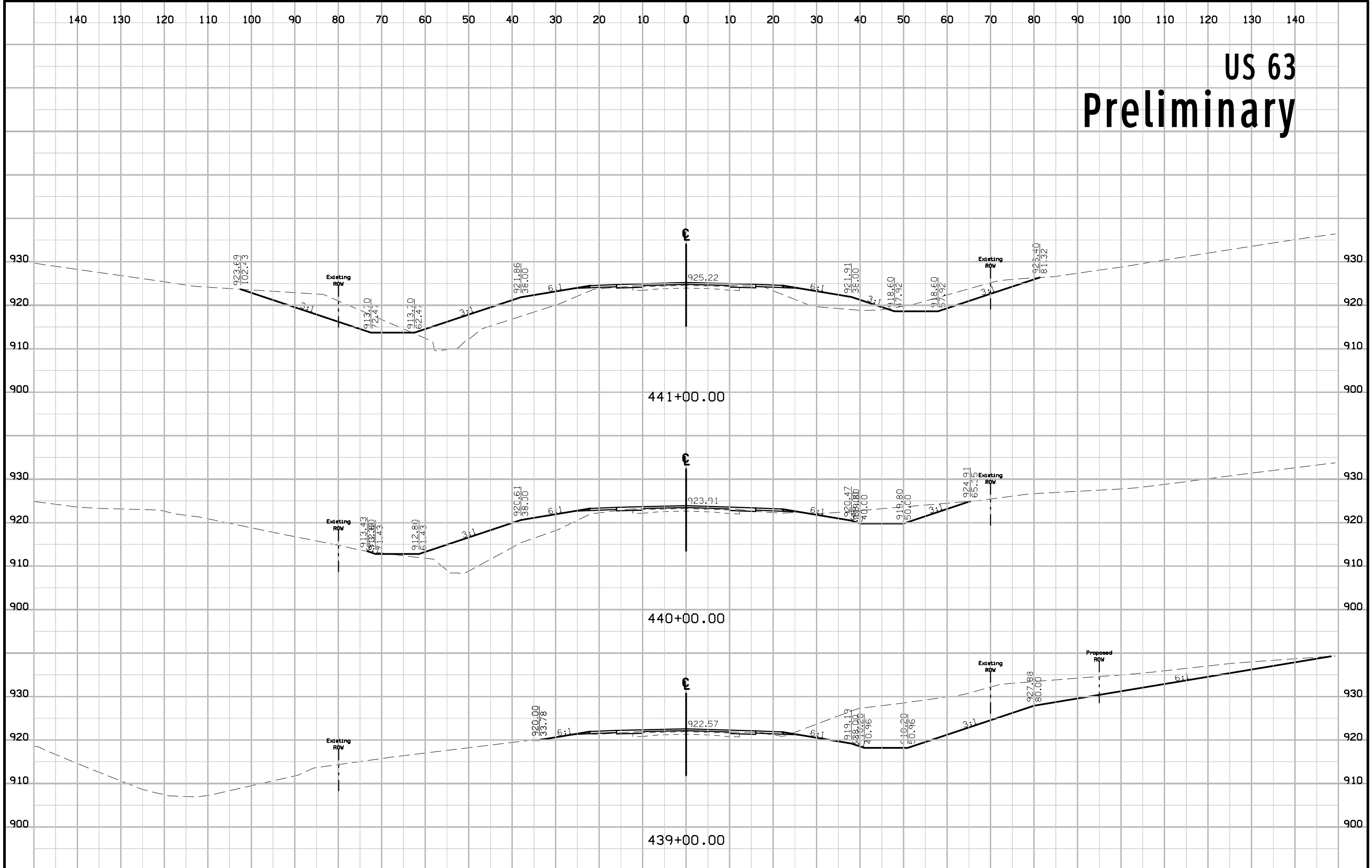
US 63 Preliminary



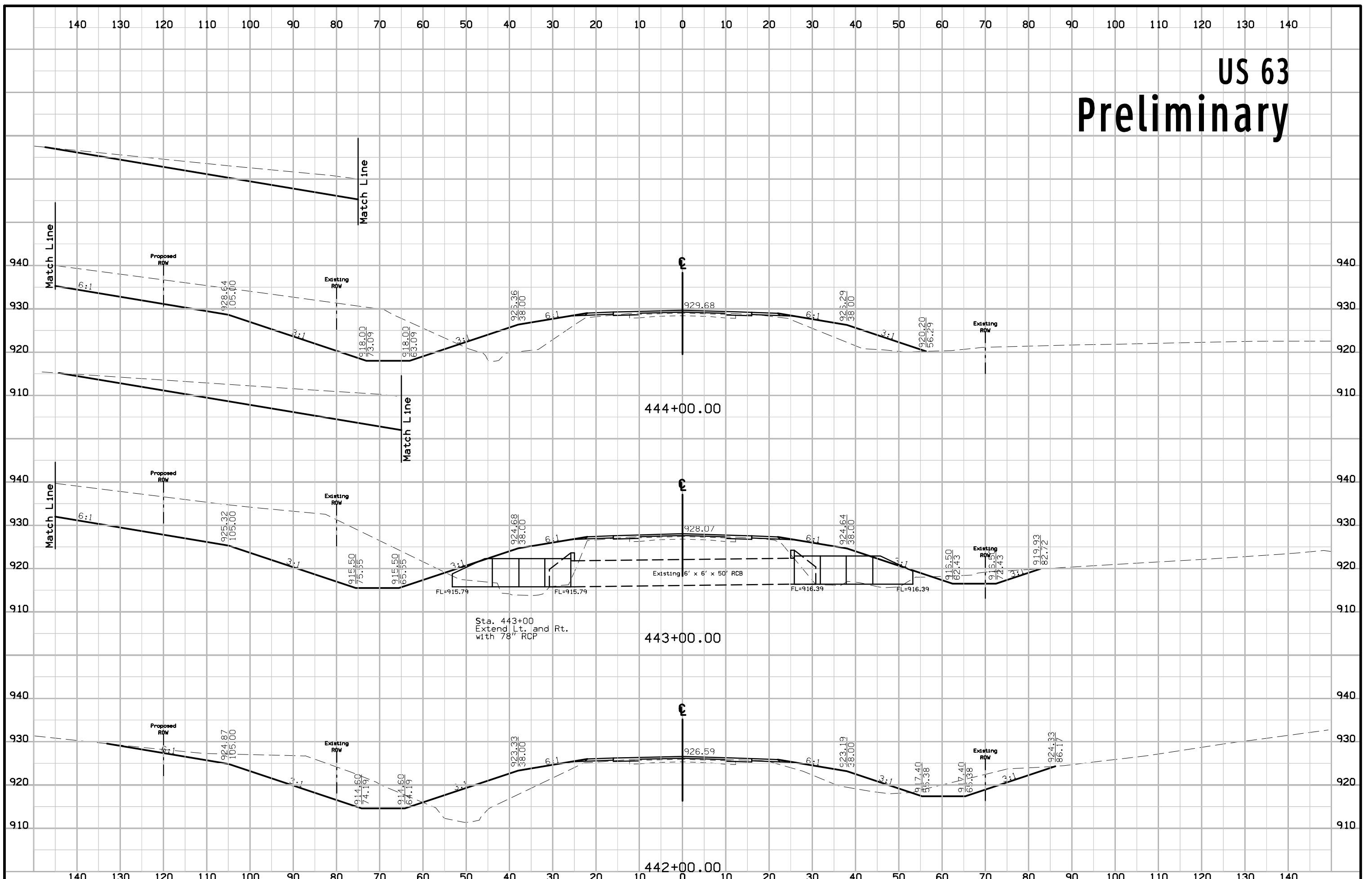
US 63 Preliminary



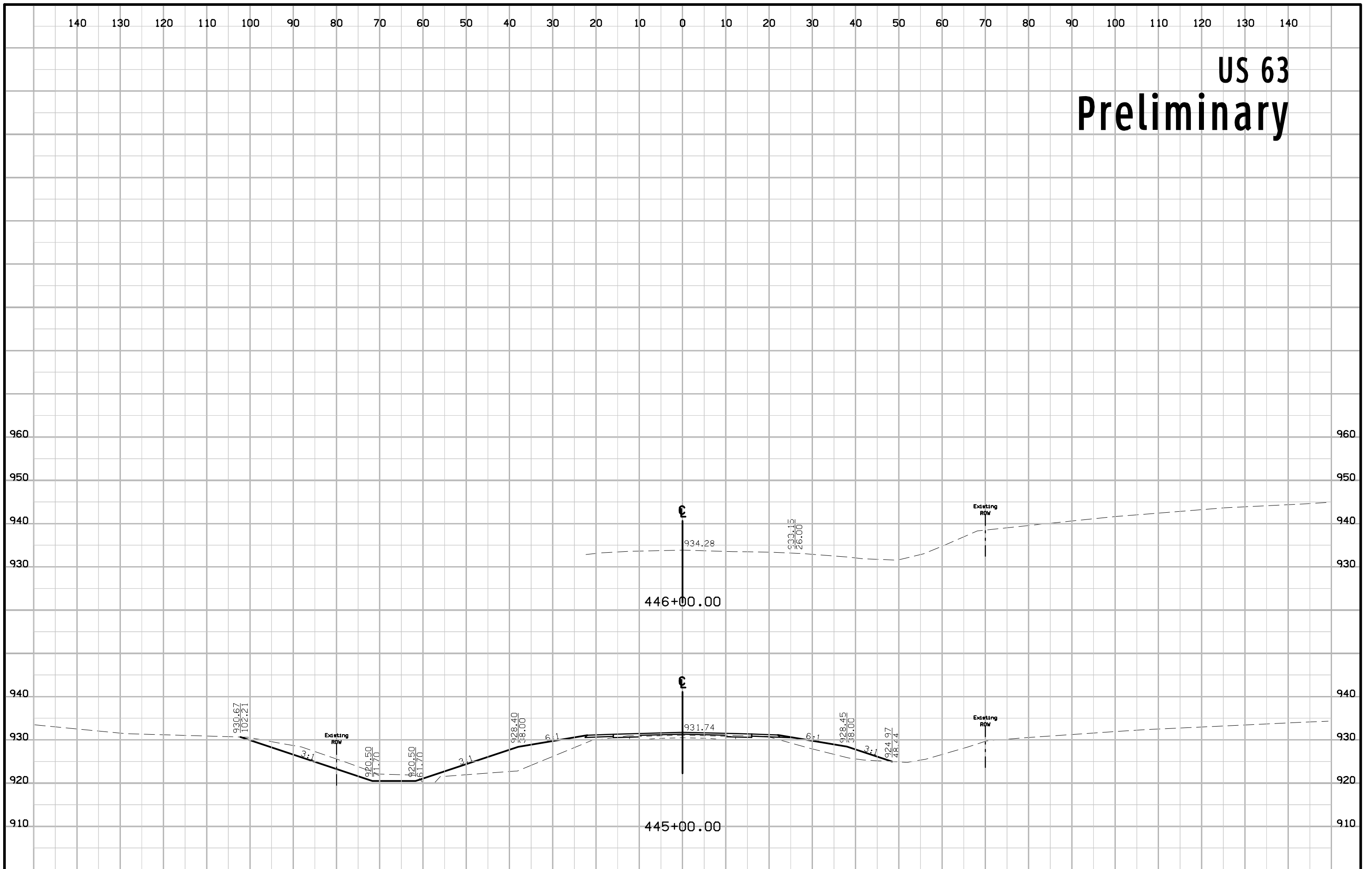
US 63 Preliminary

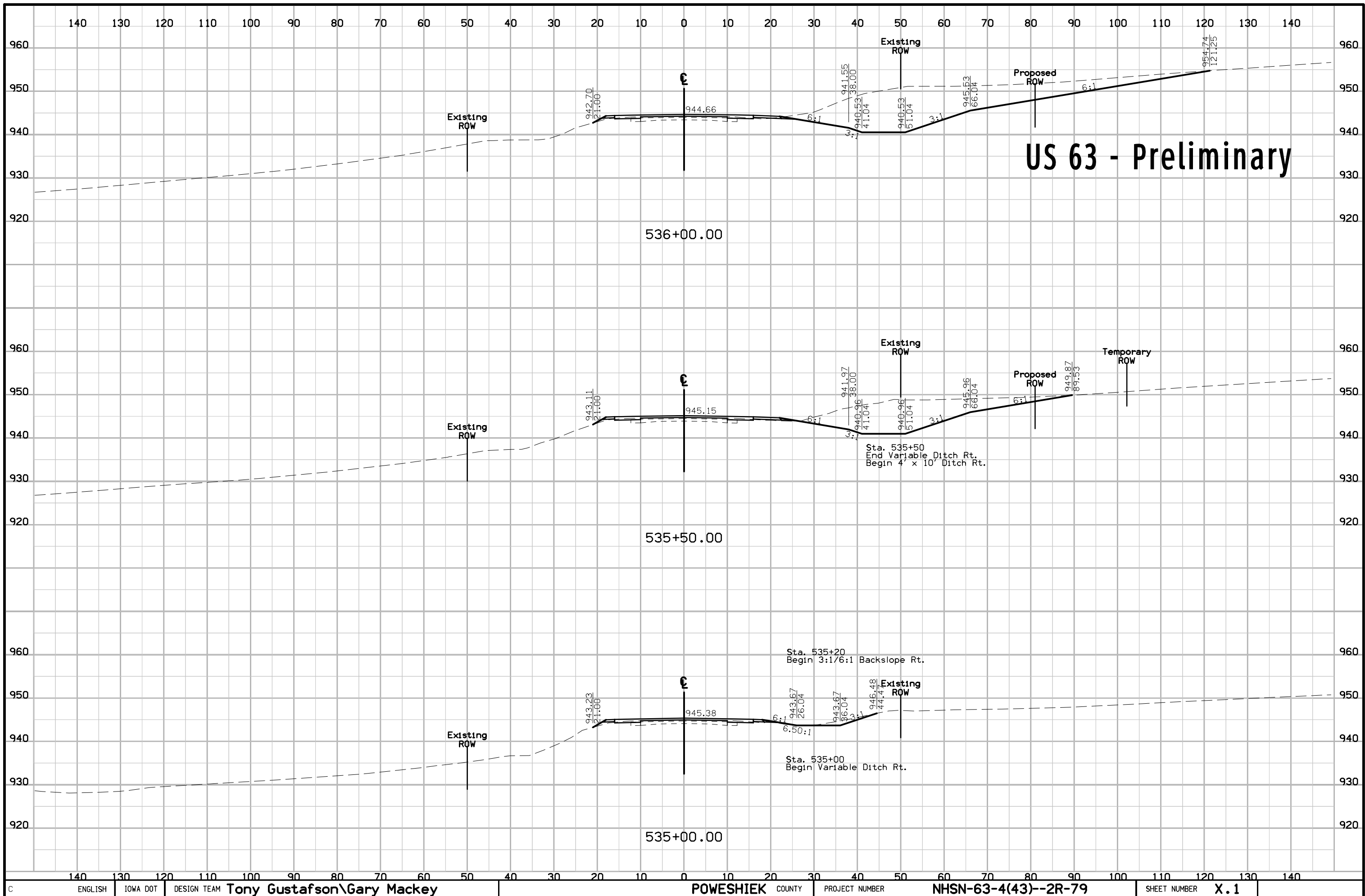


US 63 Preliminary

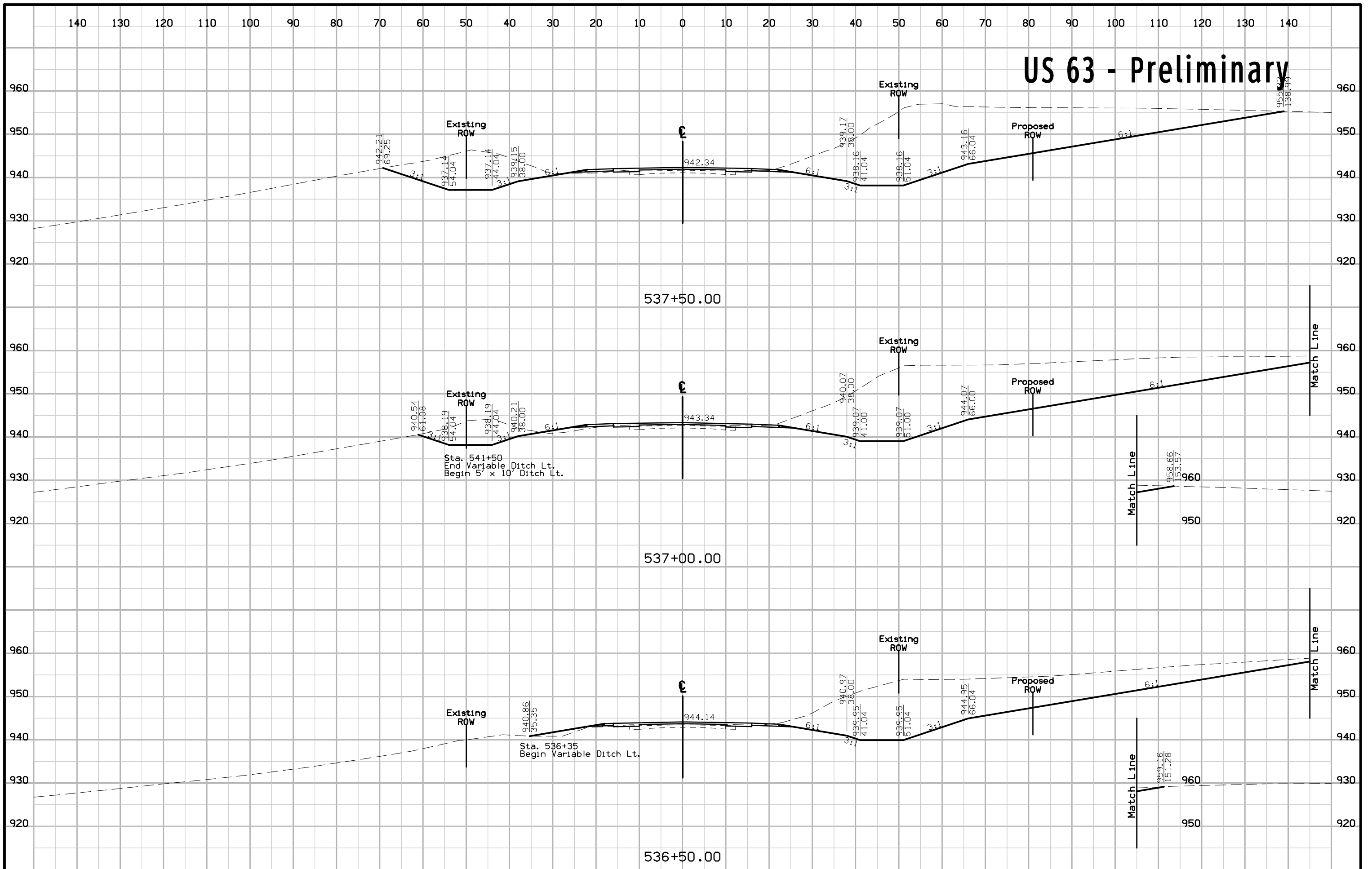


US 63 Preliminary

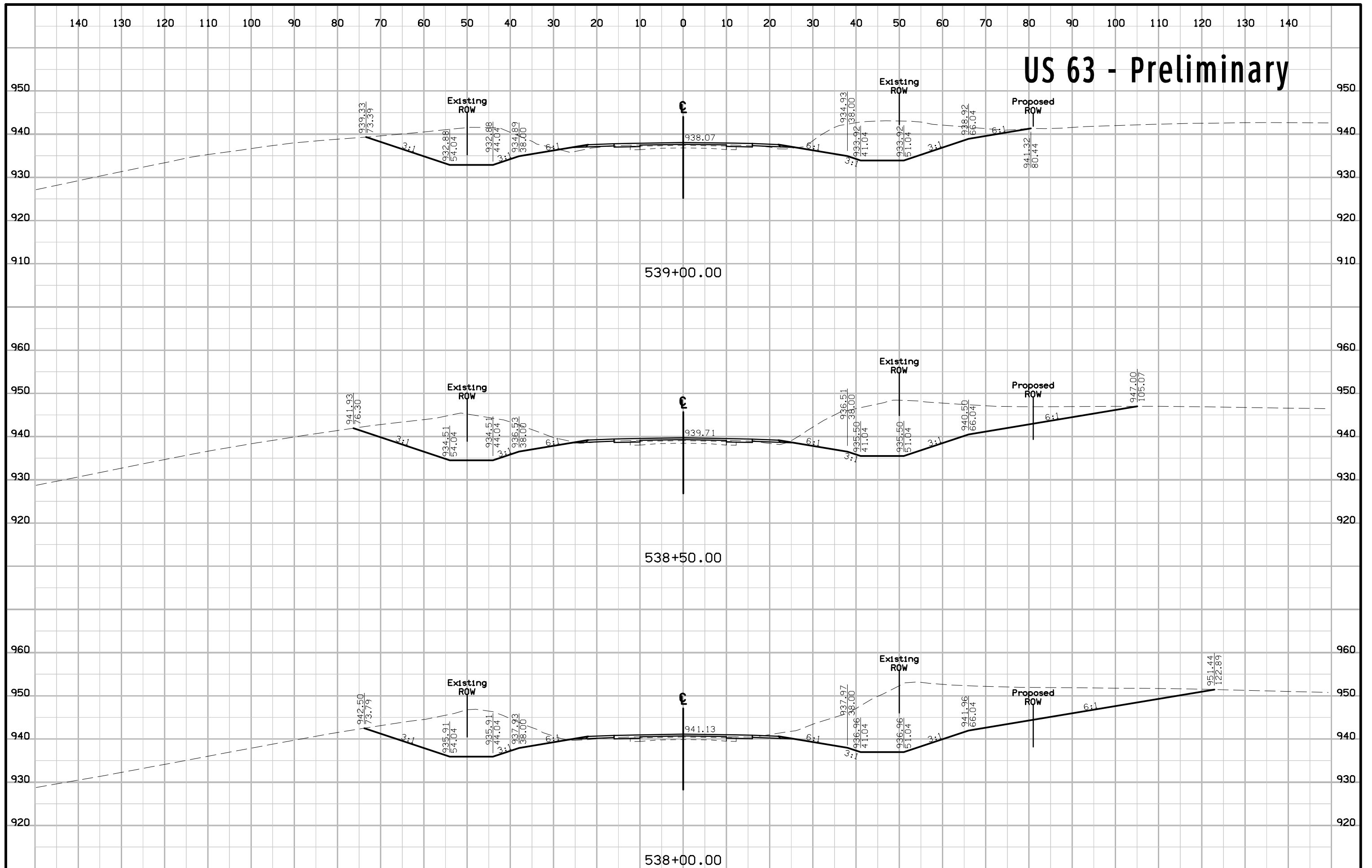




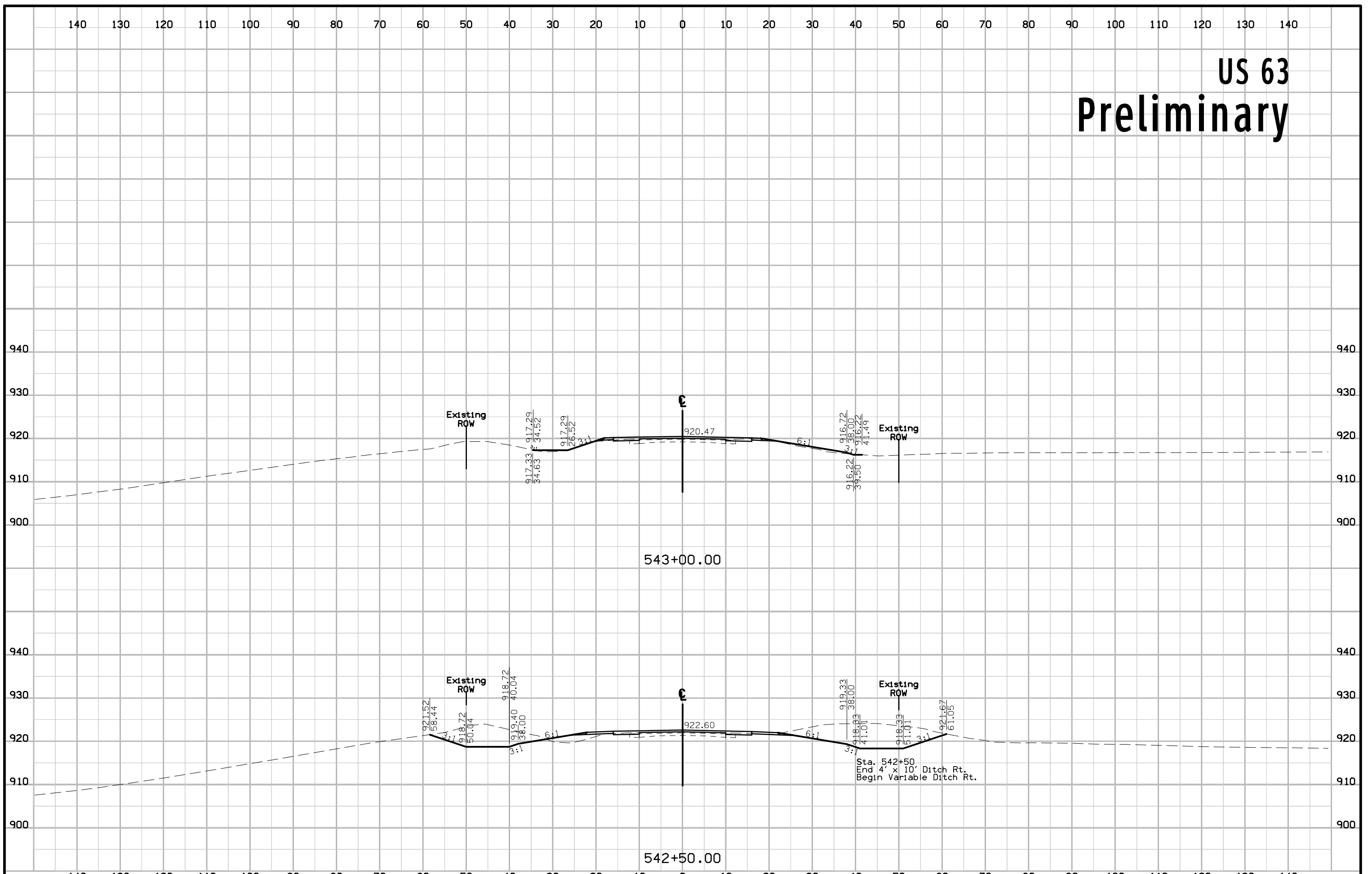
US 63 - Preliminary



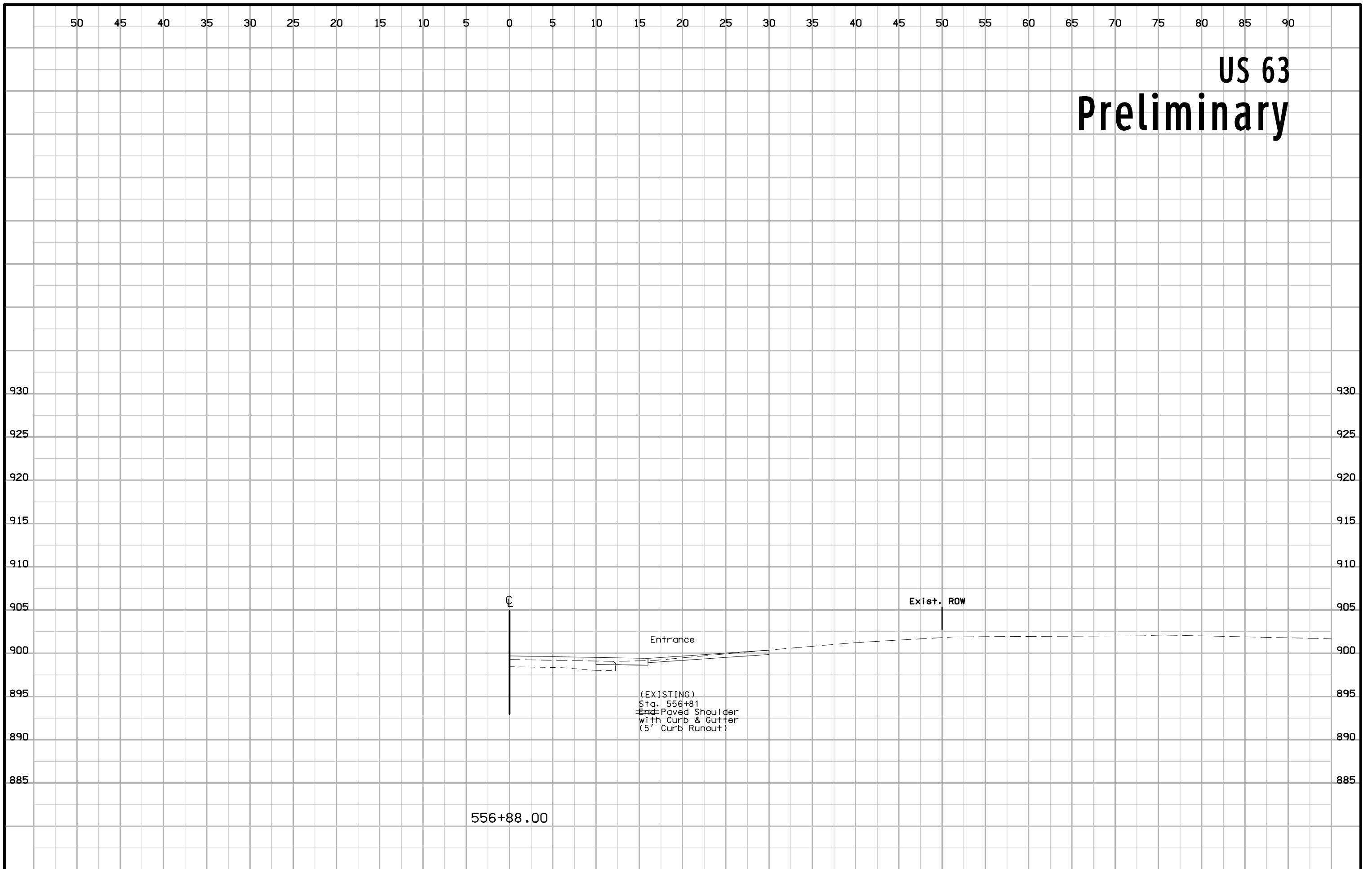
US 63 - Preliminary



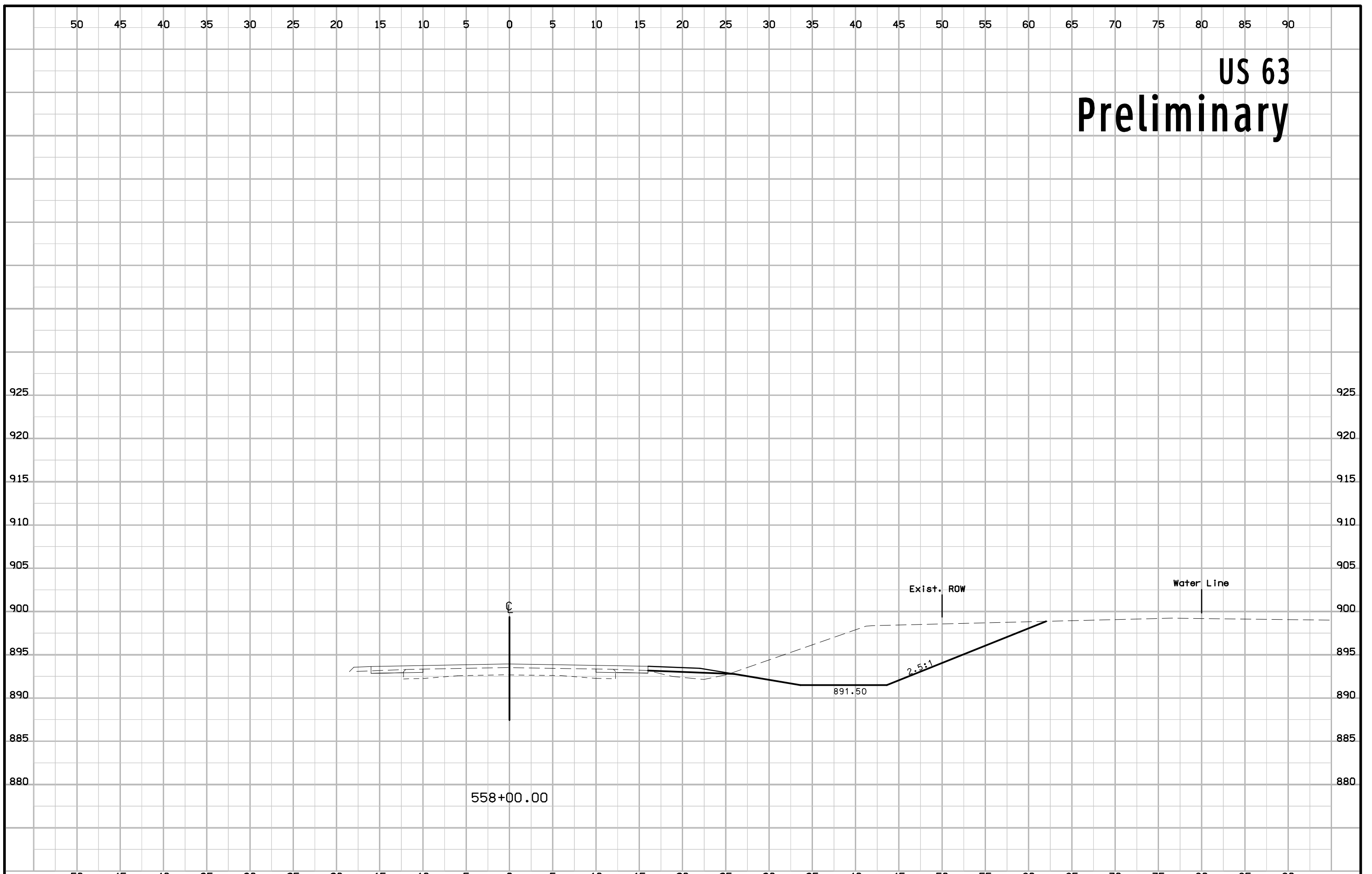
US 63 Preliminary



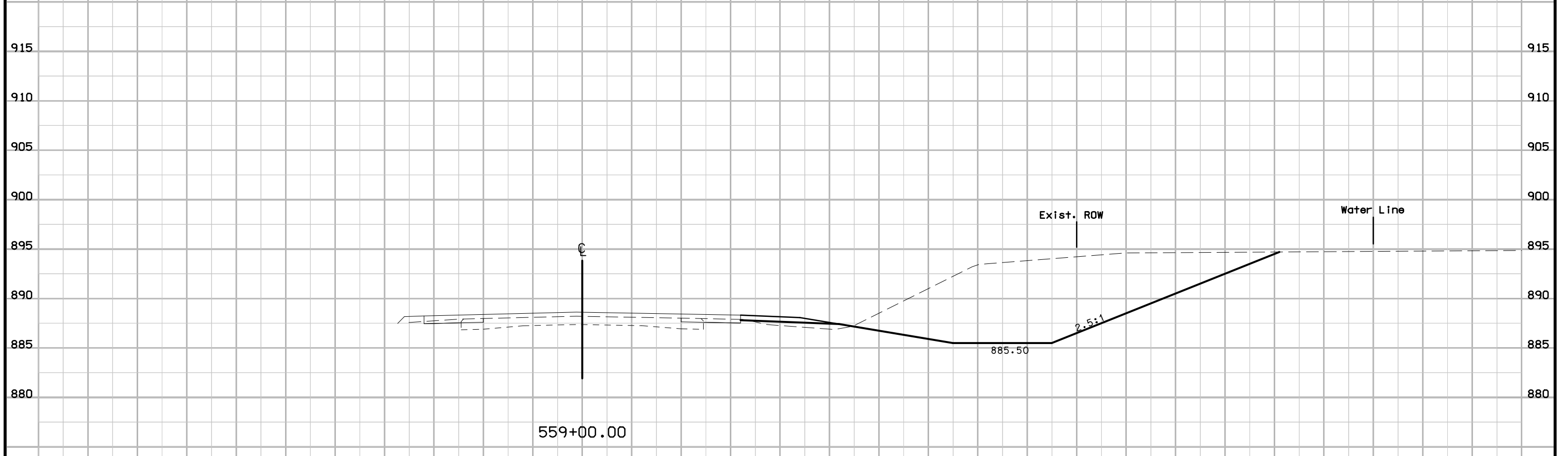
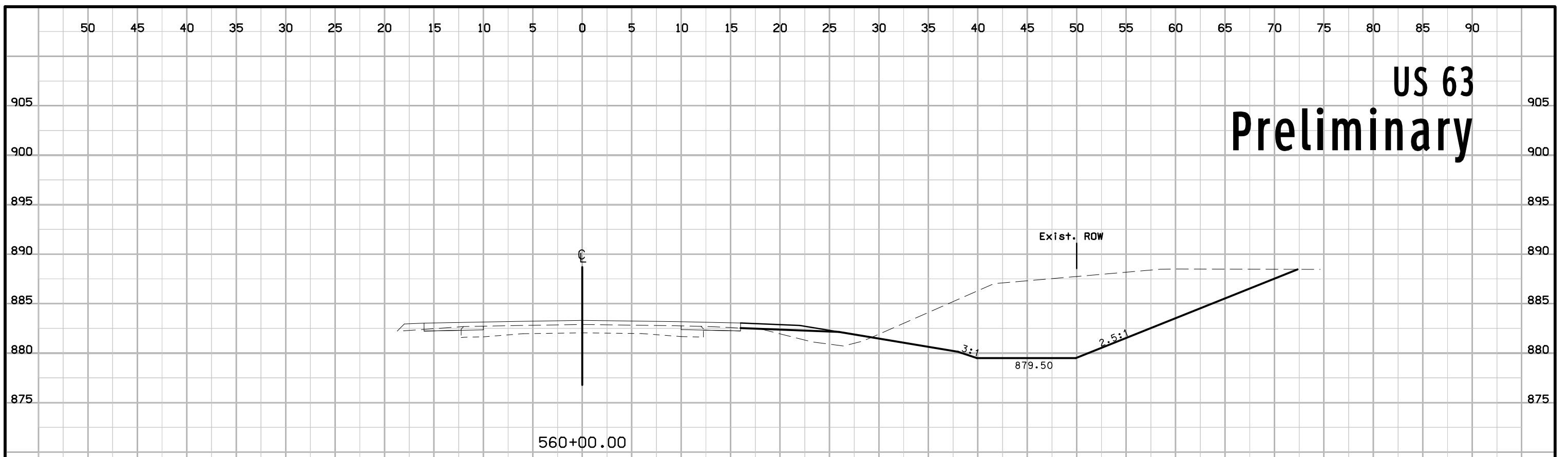
US 63 Preliminary



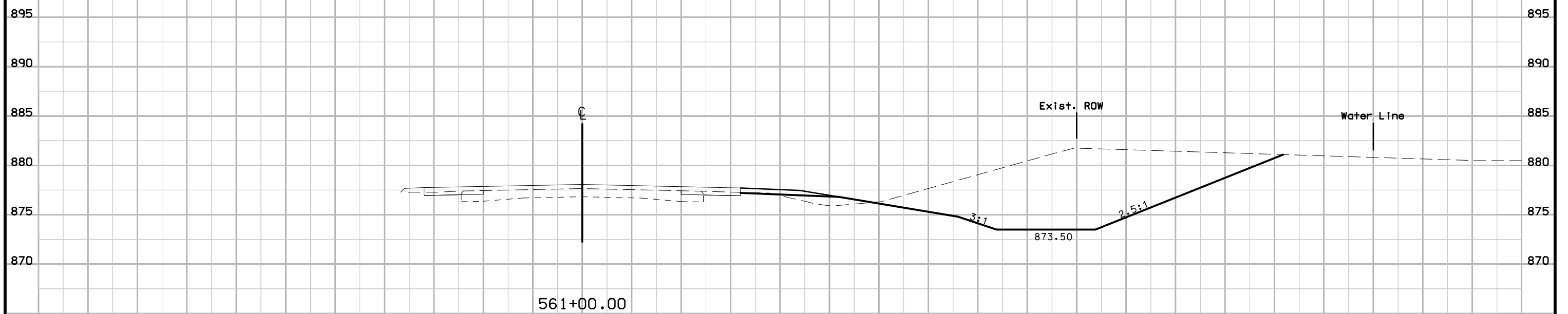
US 63 Preliminary



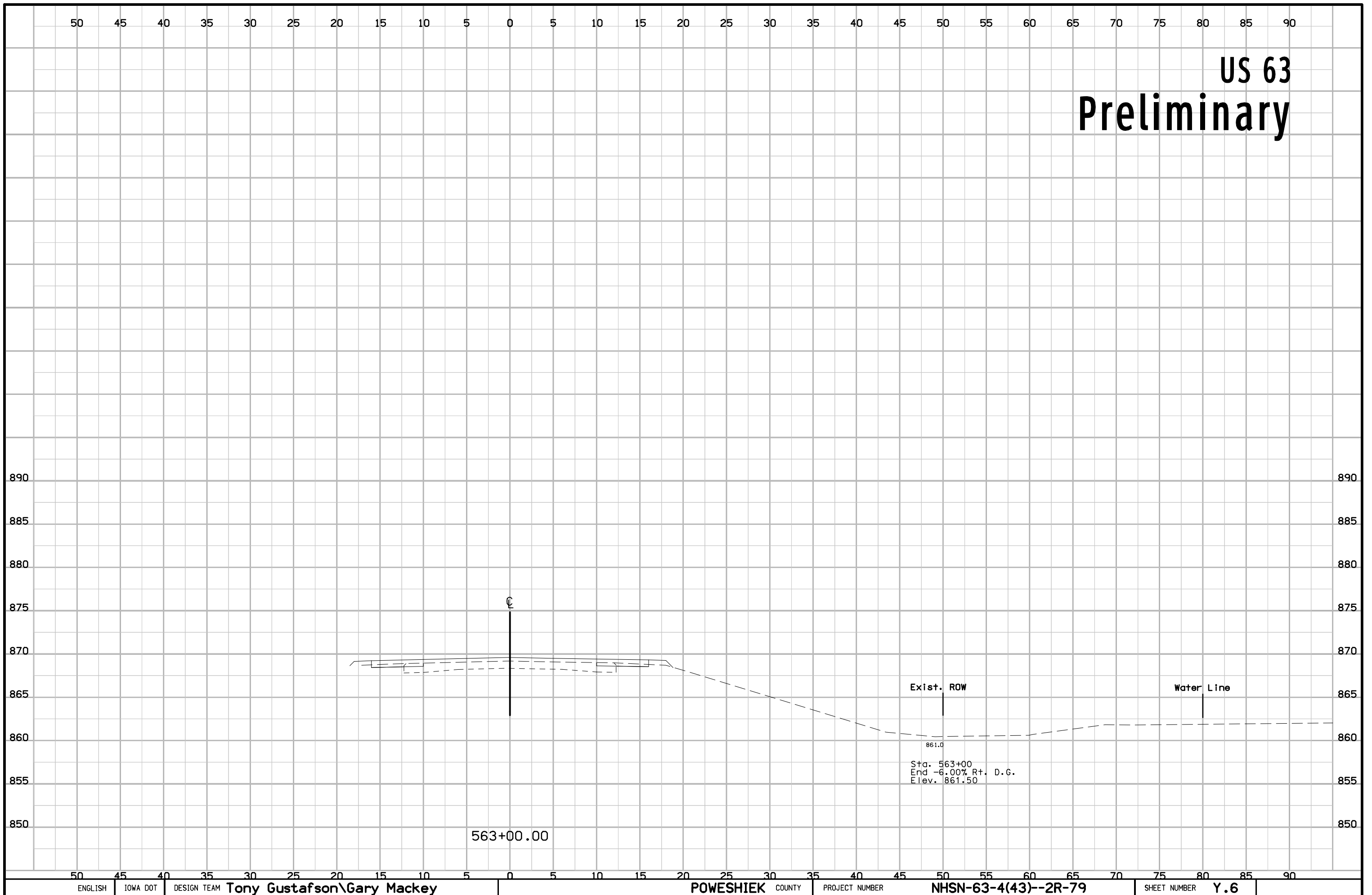
US 63 Preliminary



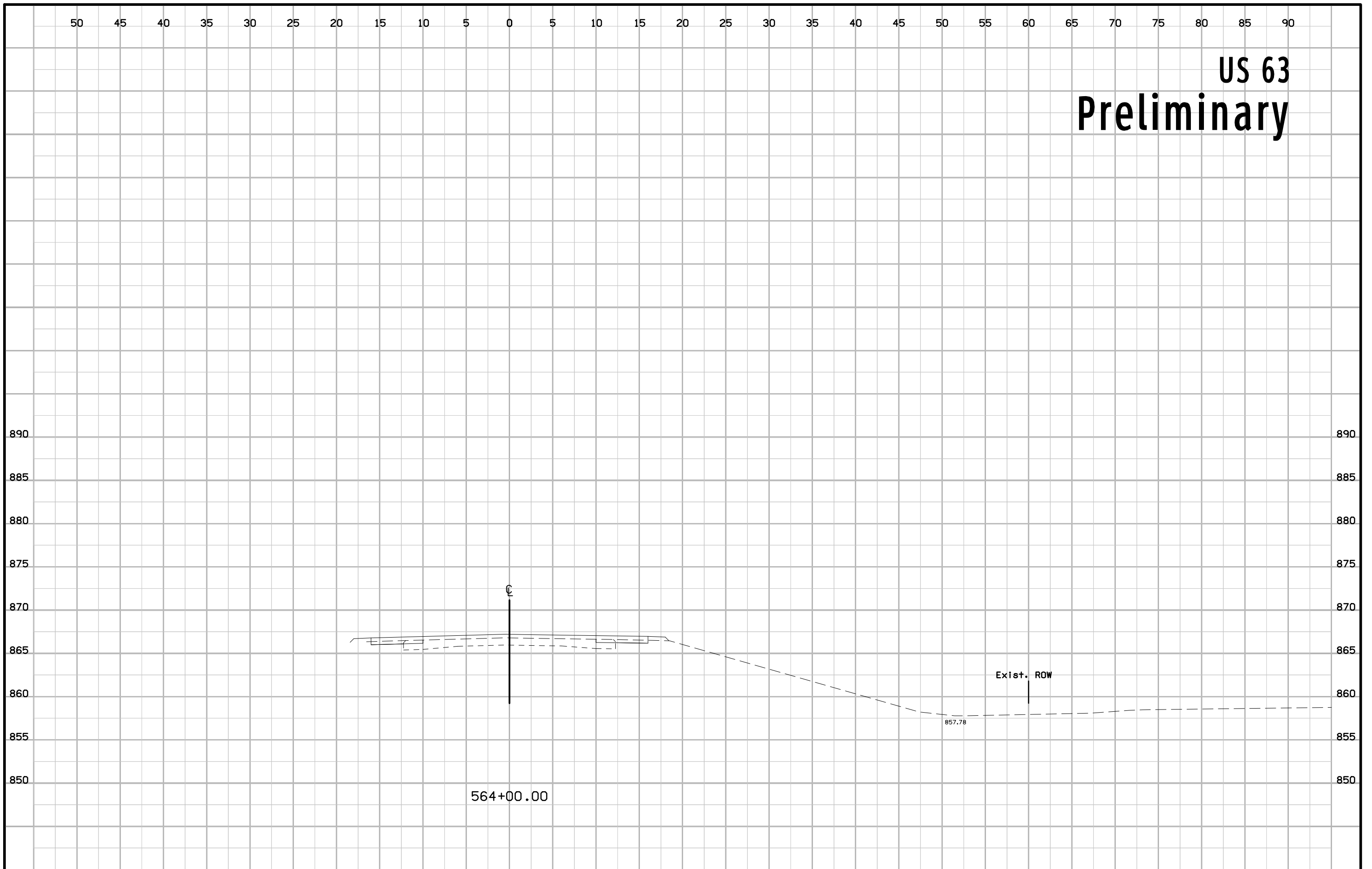
US 63 Preliminary



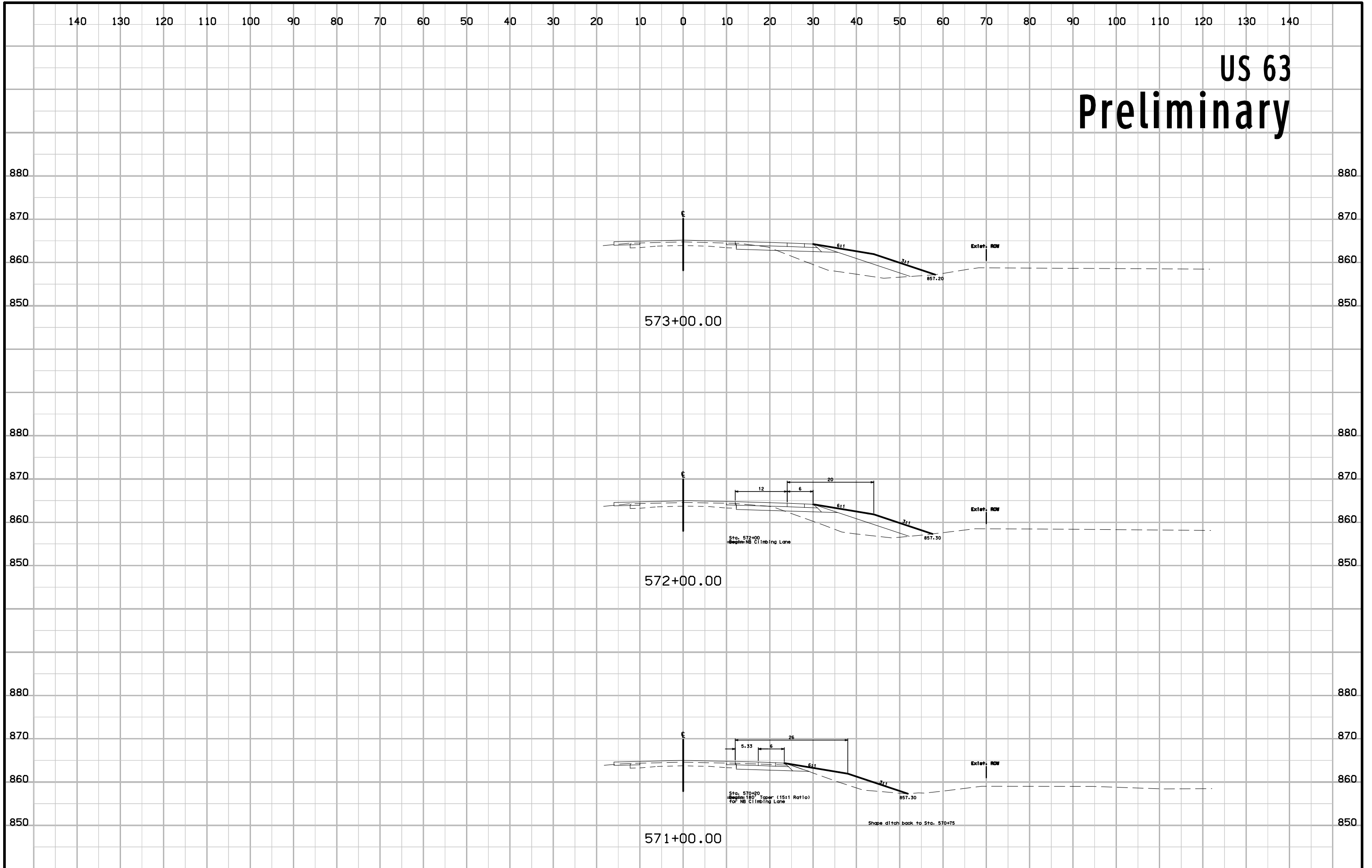
US 63 Preliminary



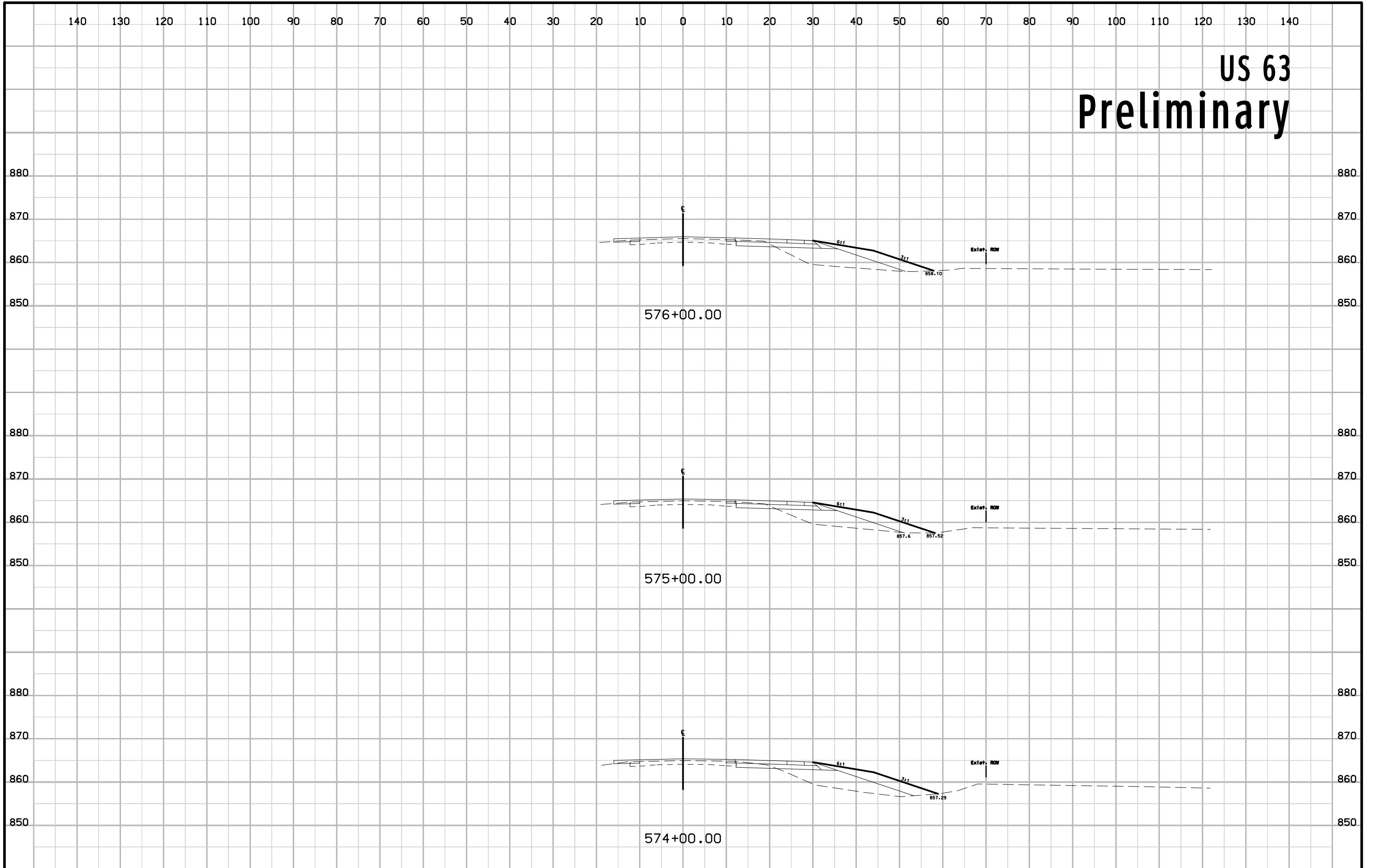
US 63 Preliminary



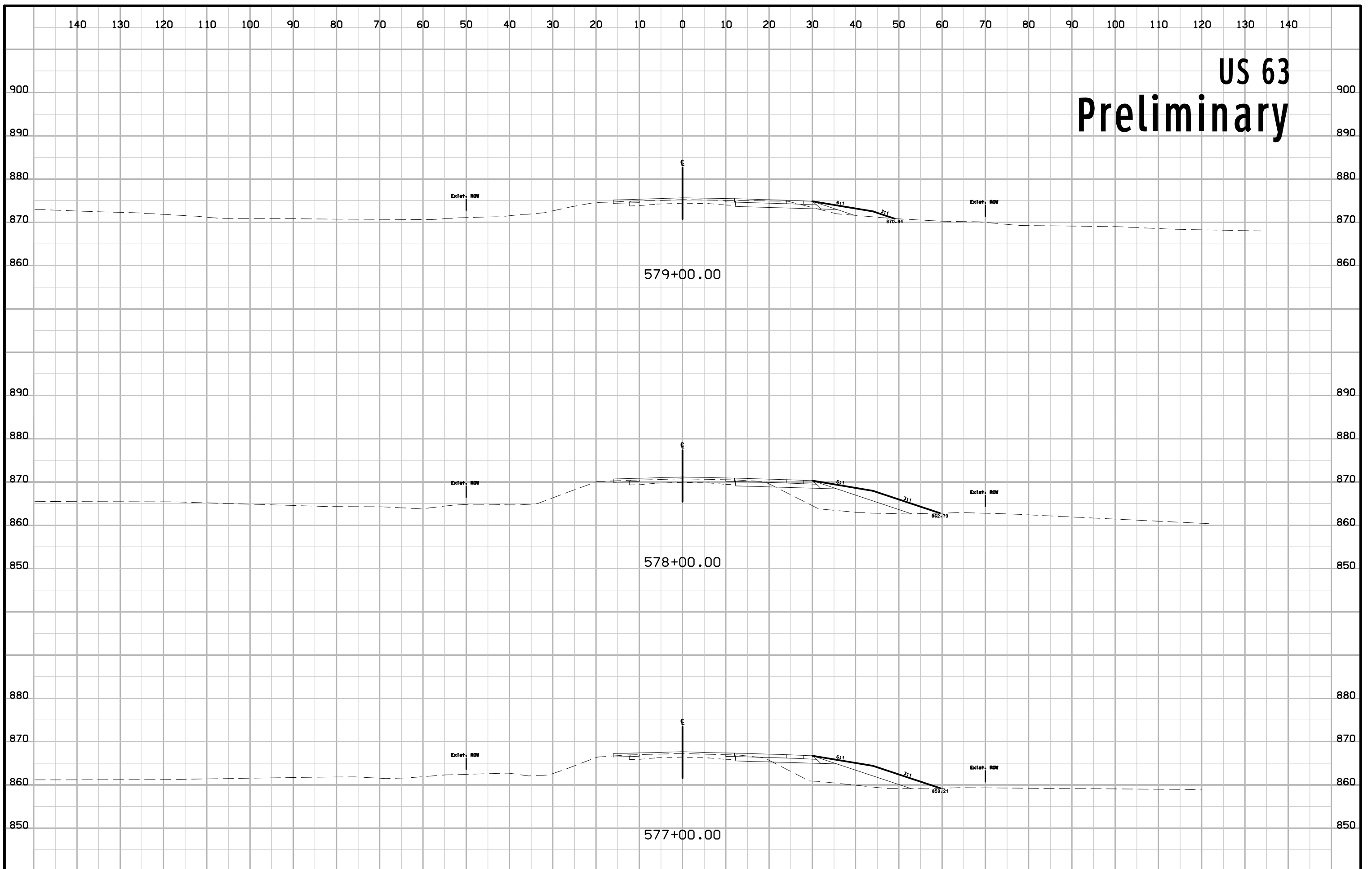
US 63 Preliminary



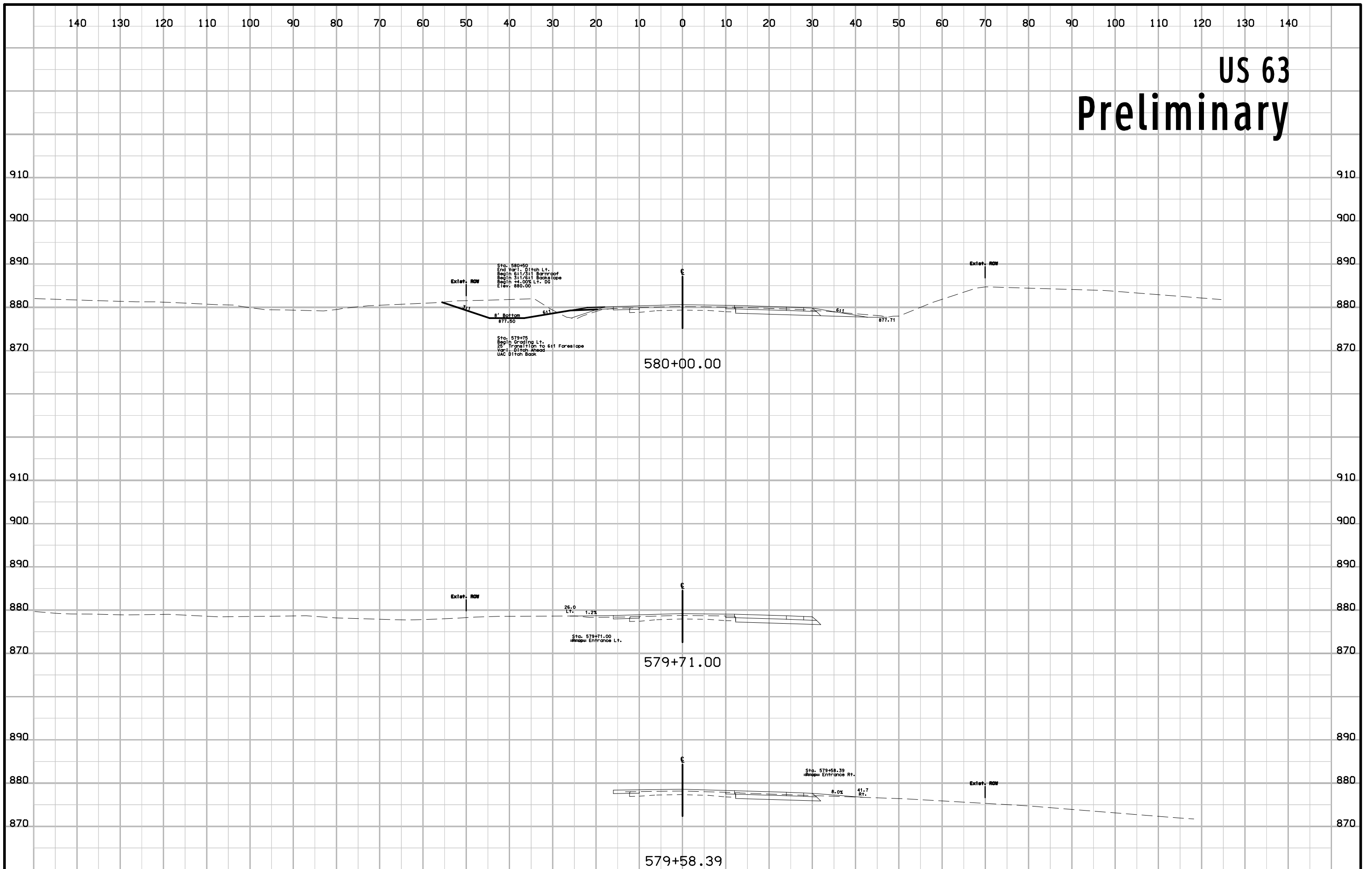
US 63 Preliminary



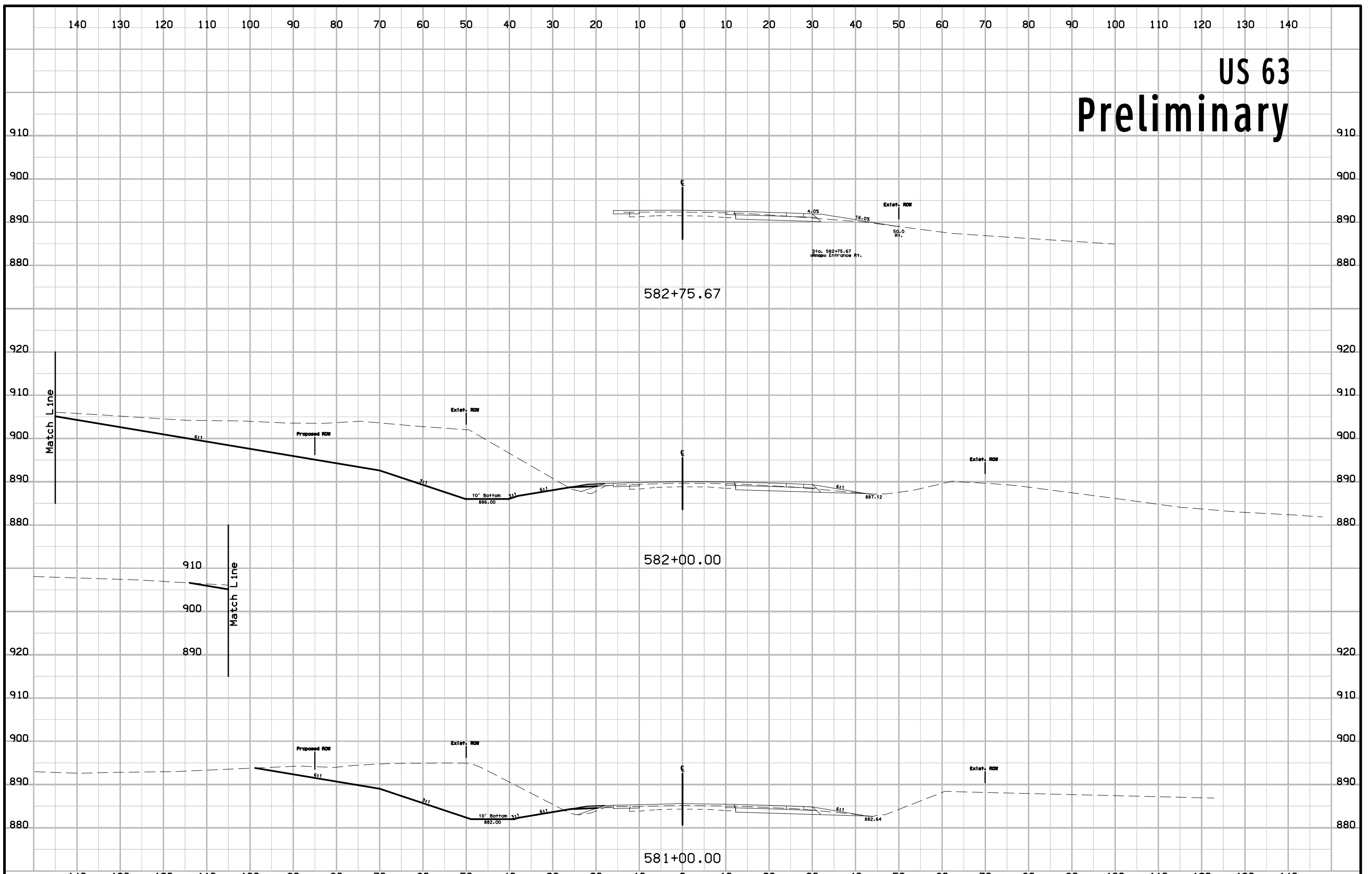
US 63 Preliminary



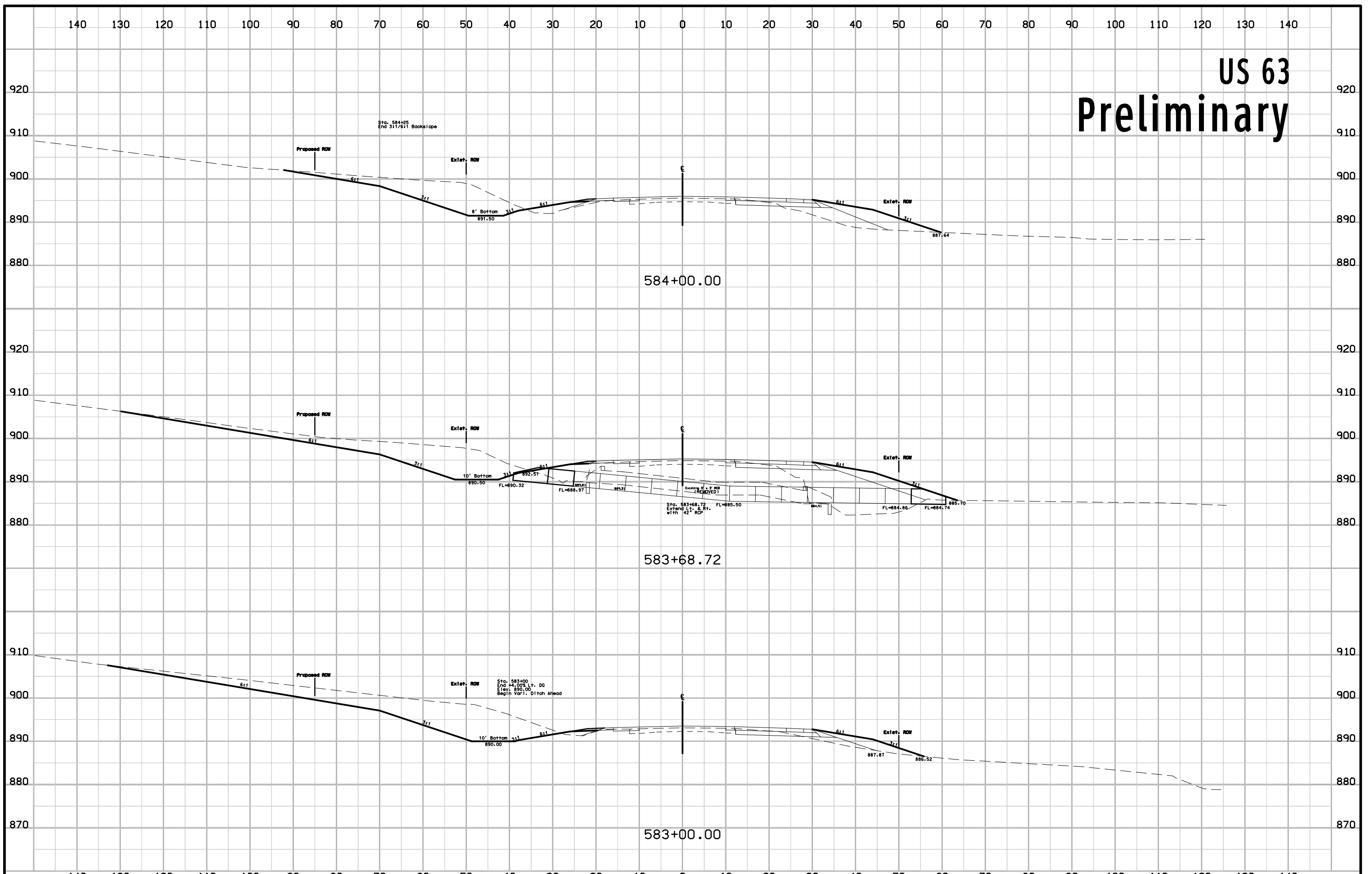
US 63 Preliminary



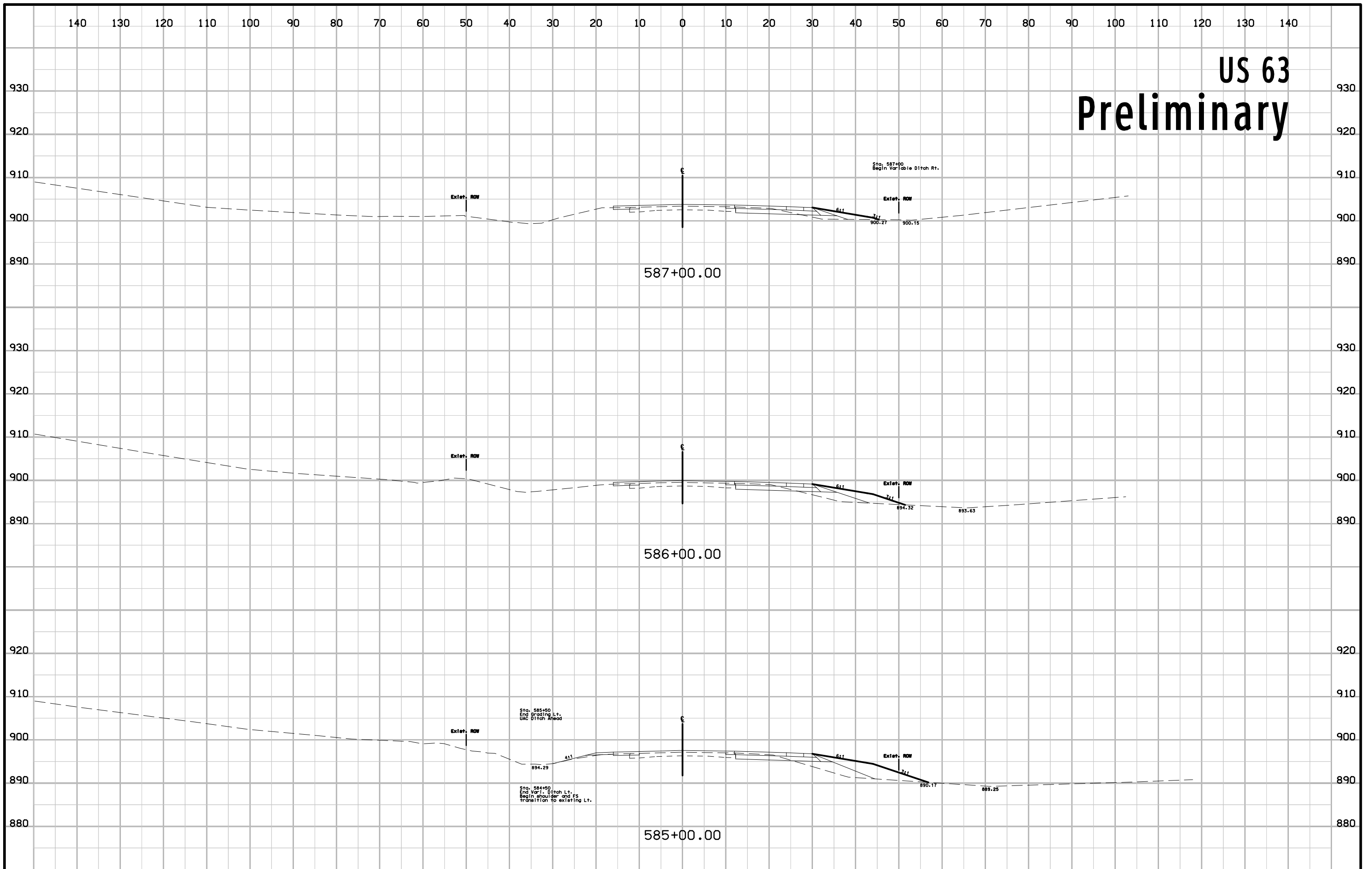
US 63 Preliminary



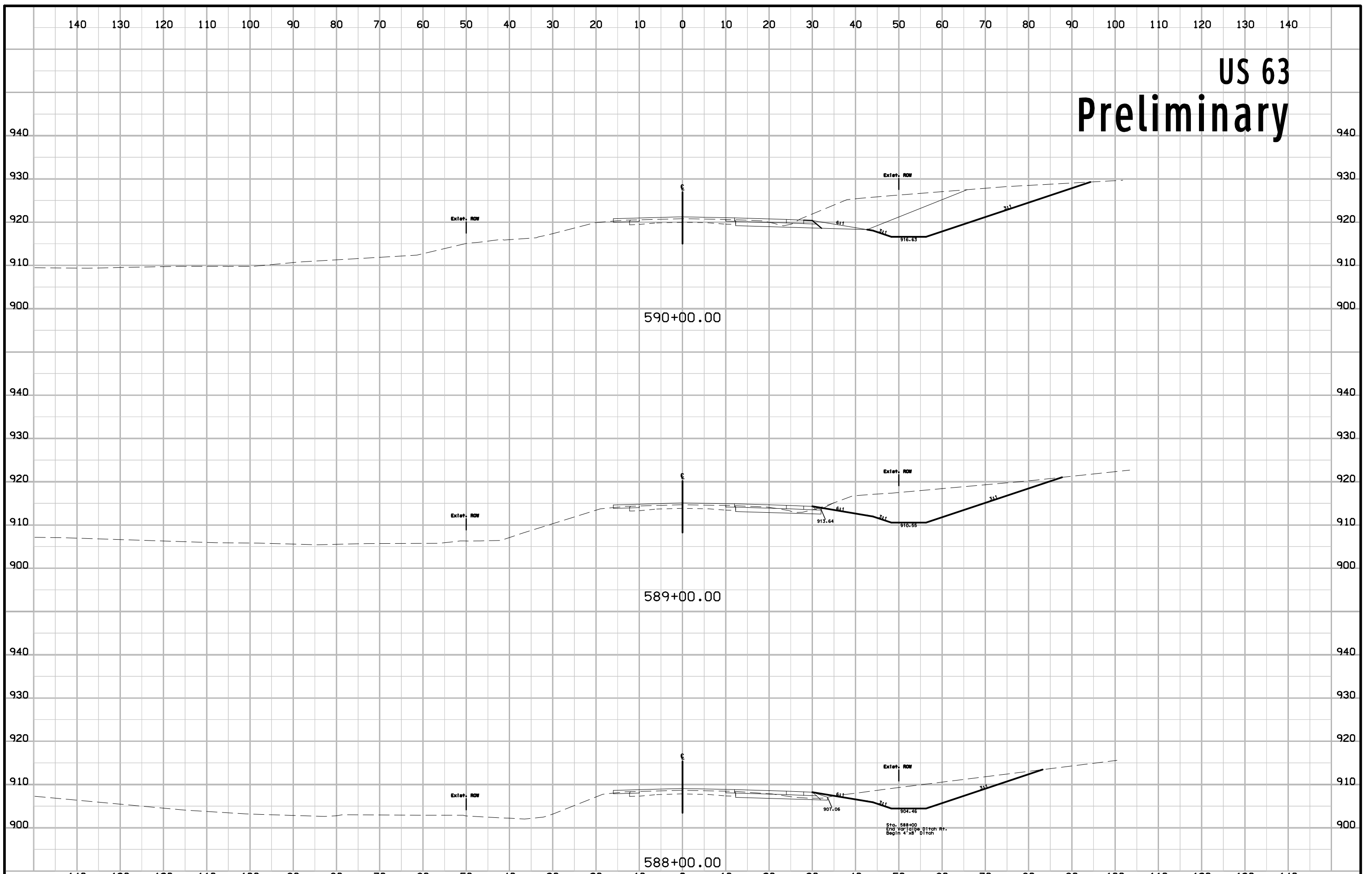
US 63 Preliminary



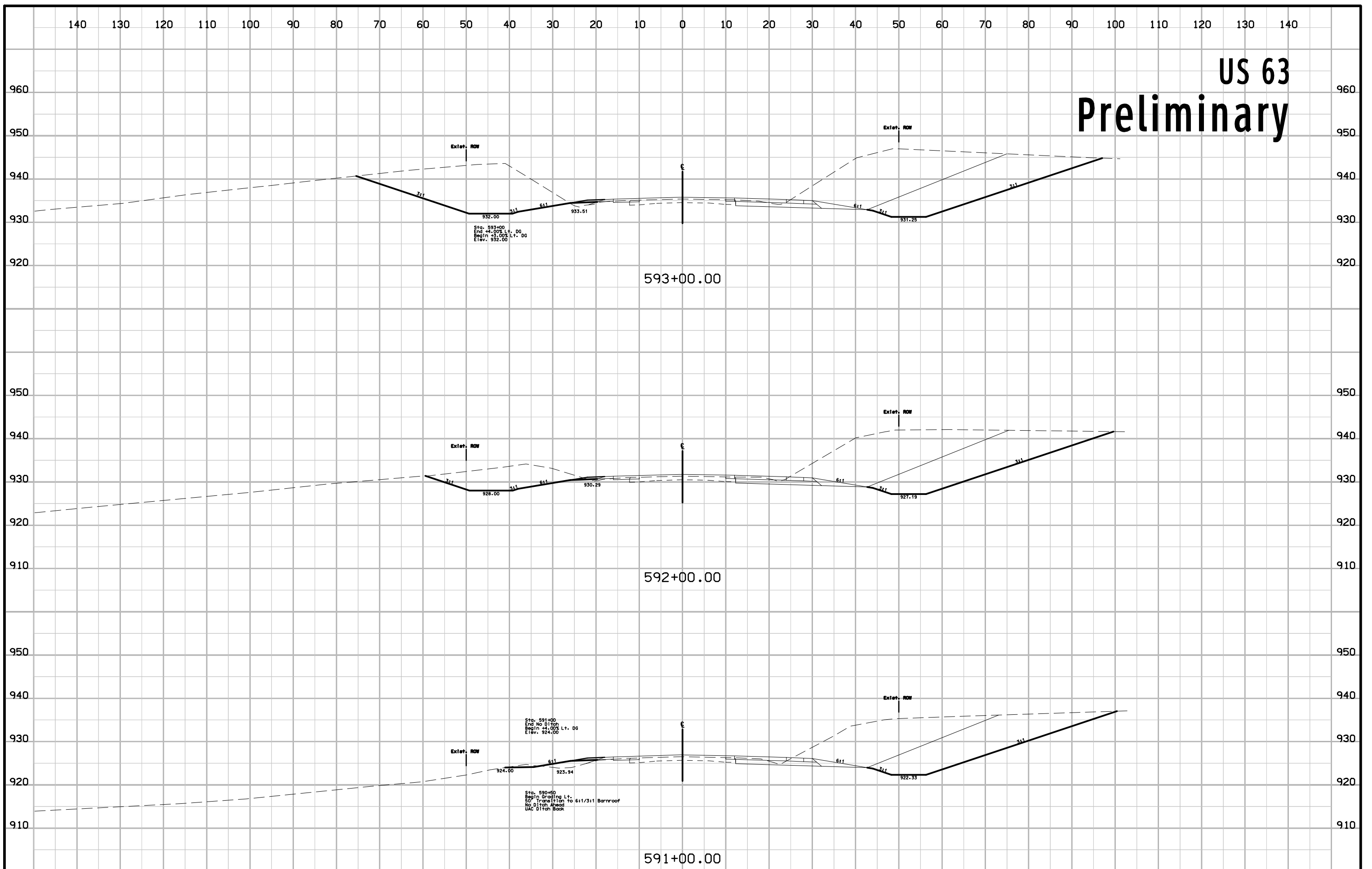
US 63 Preliminary



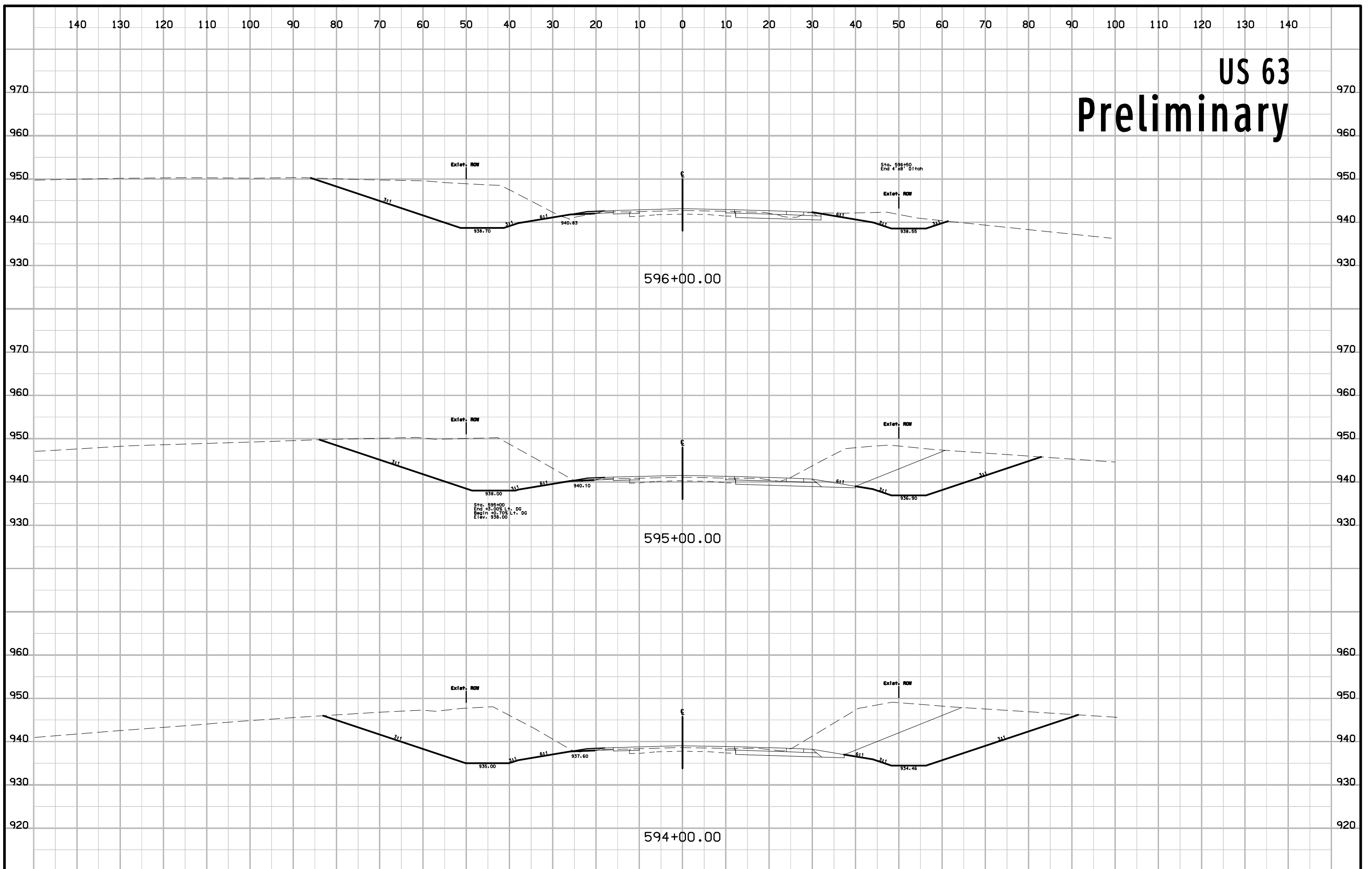
US 63 Preliminary



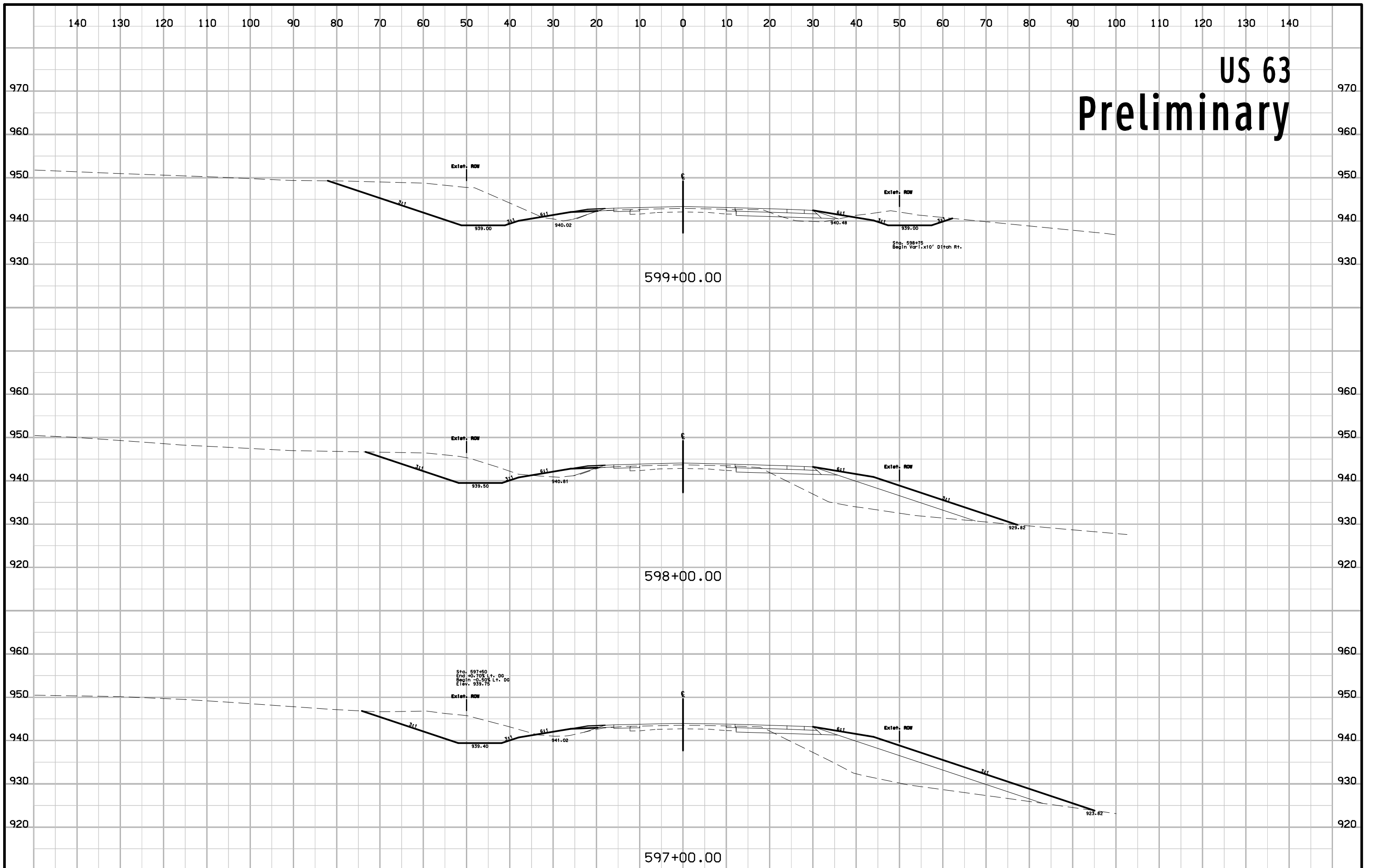
US 63 Preliminary



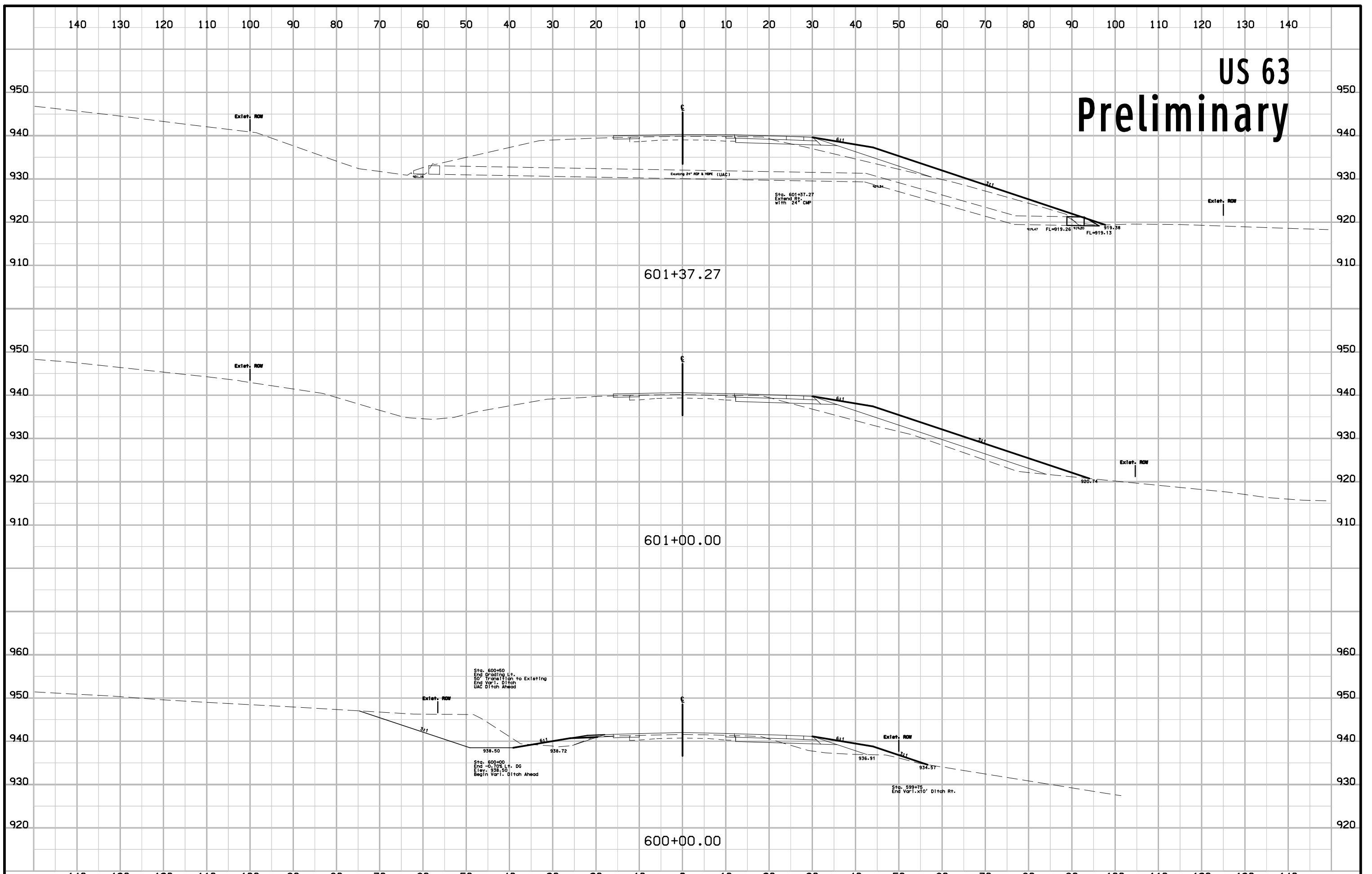
US 63 Preliminary



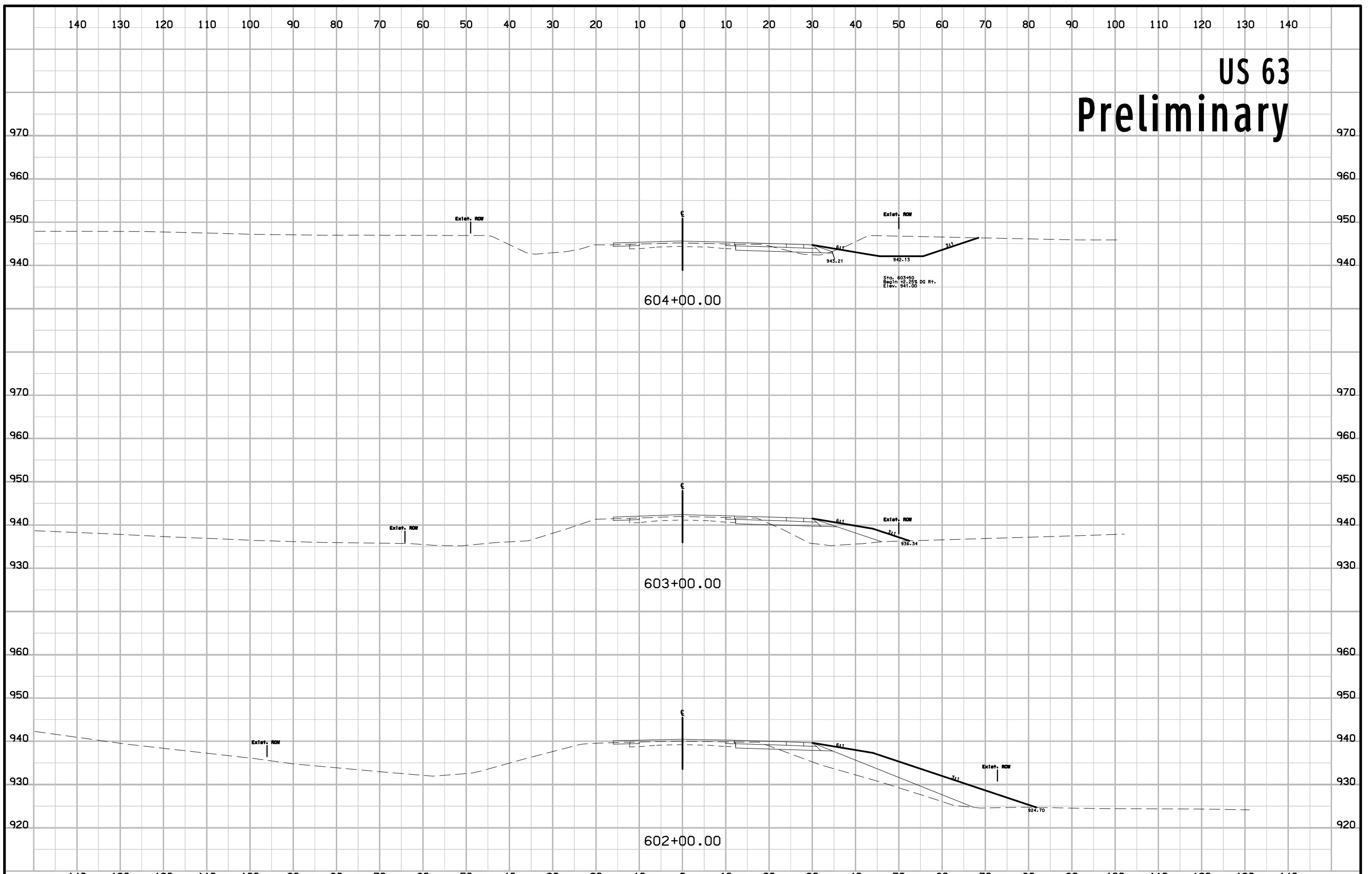
US 63 Preliminary



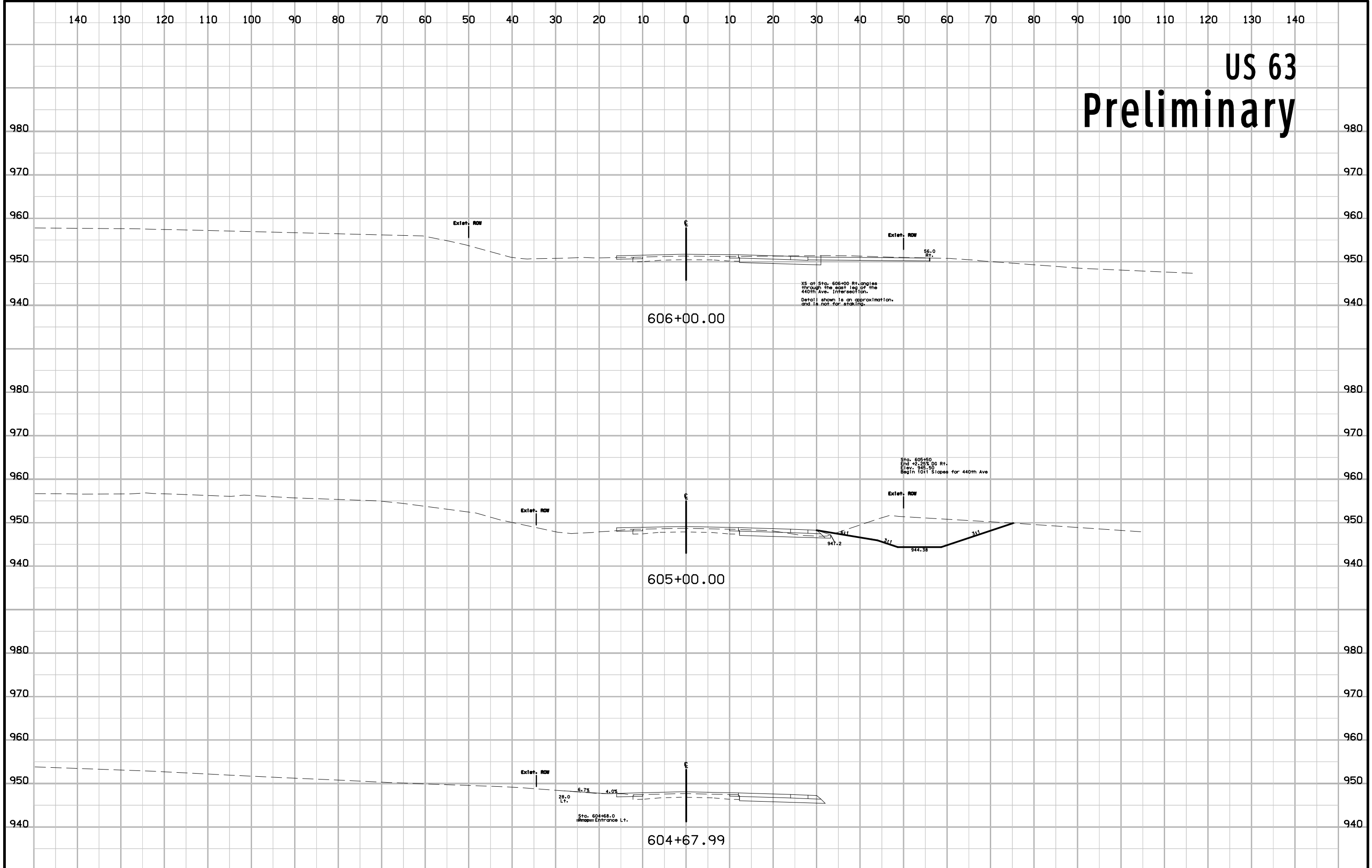
US 63 Preliminary



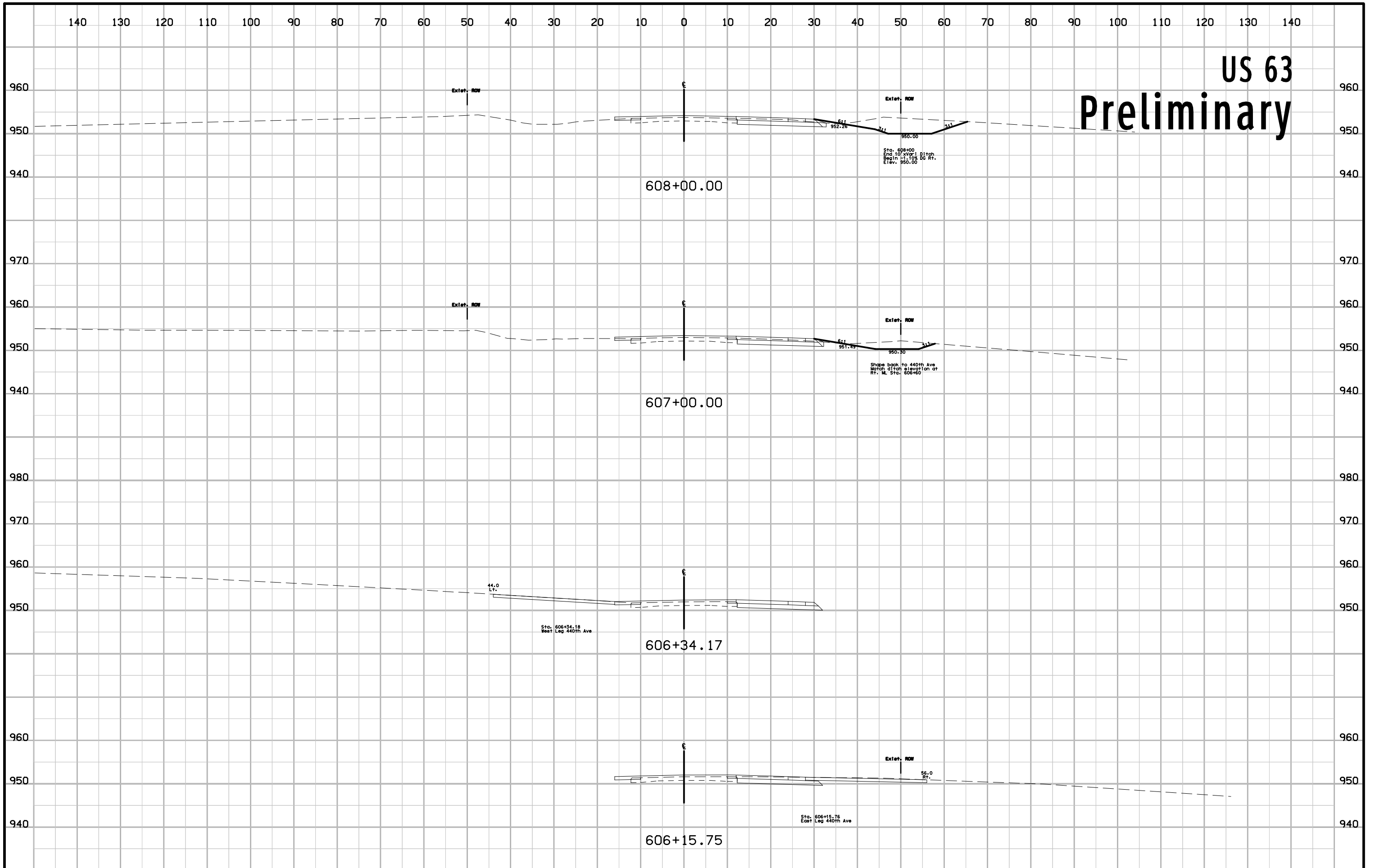
US 63 Preliminary



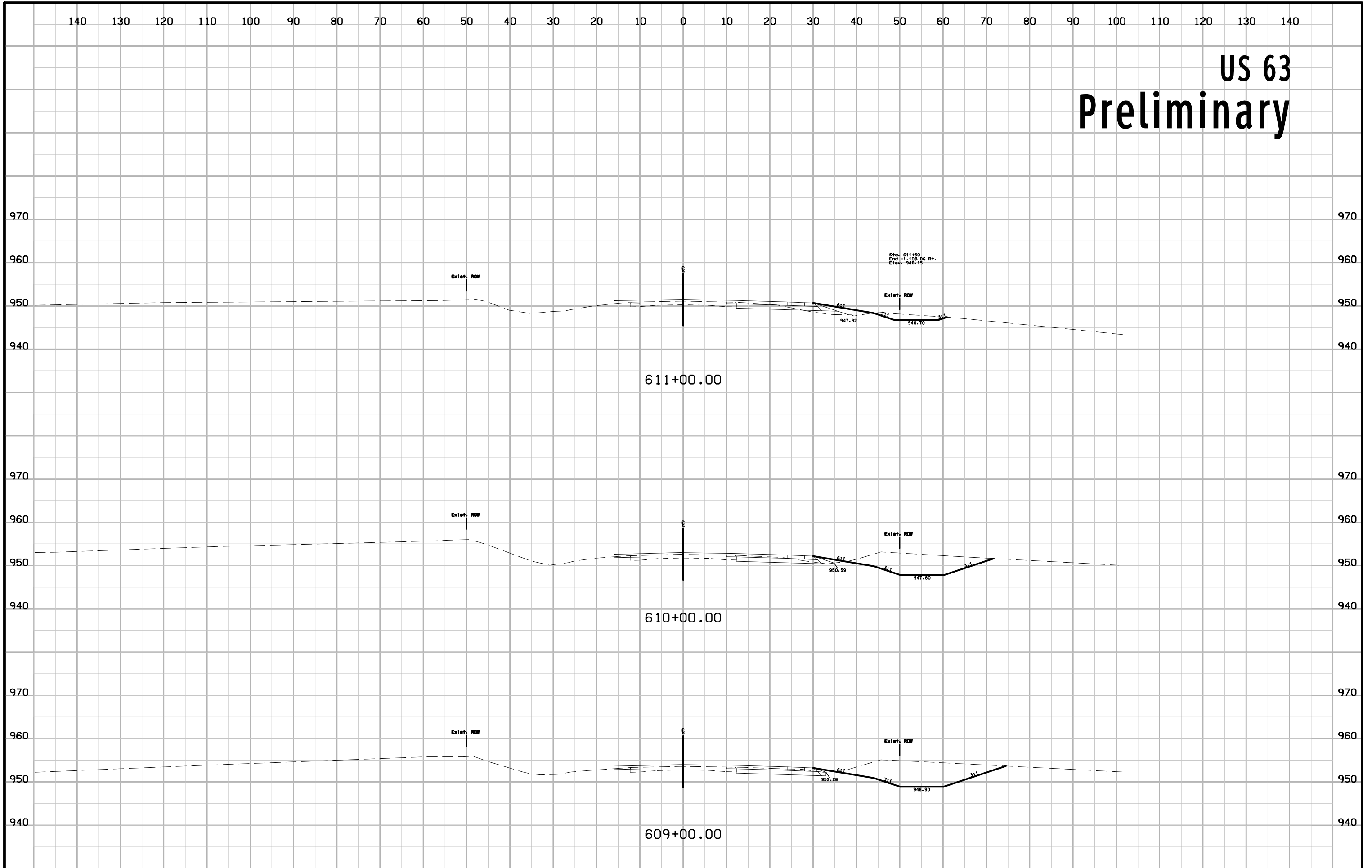
US 63 Preliminary



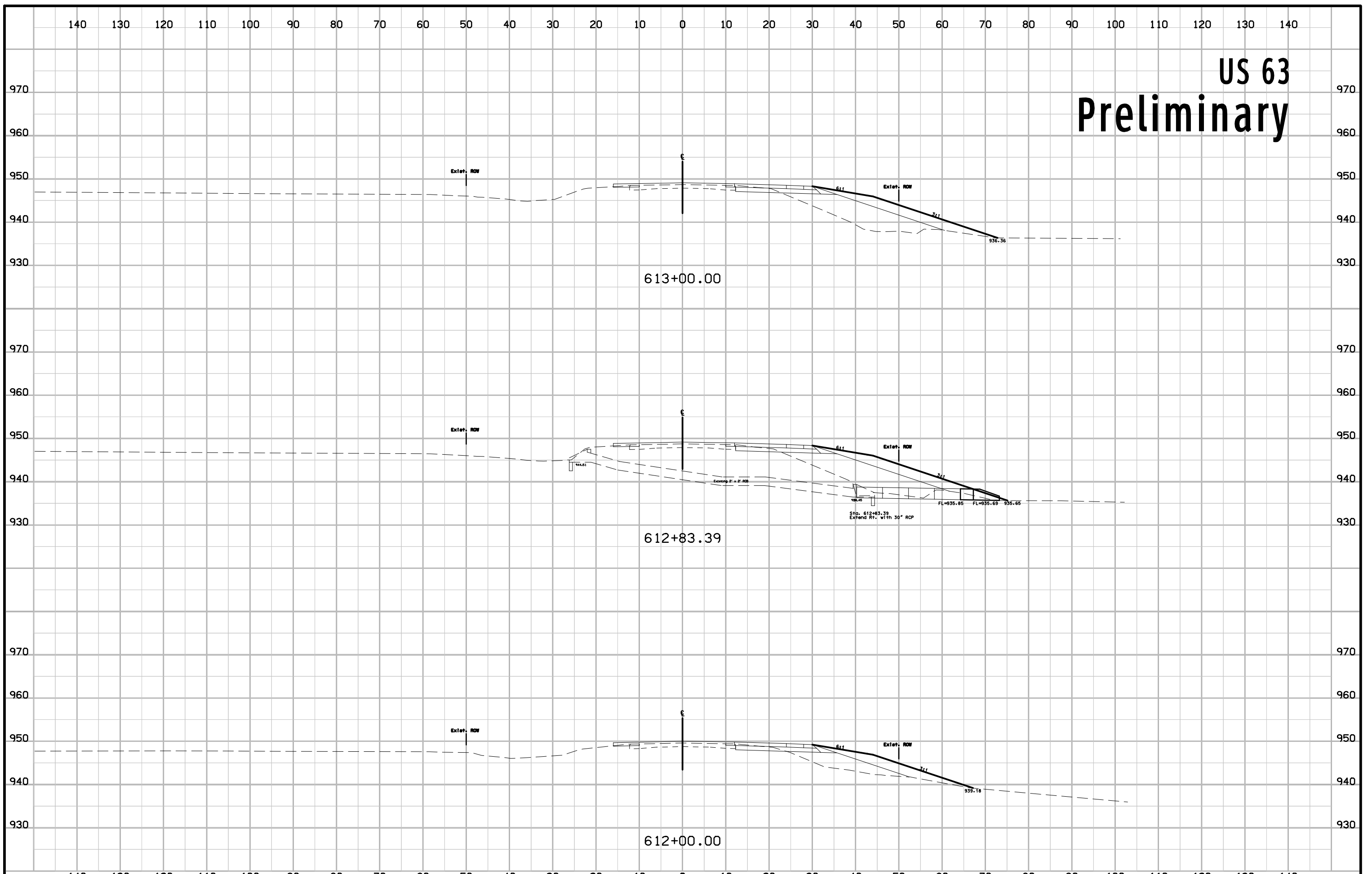
US 63 Preliminary



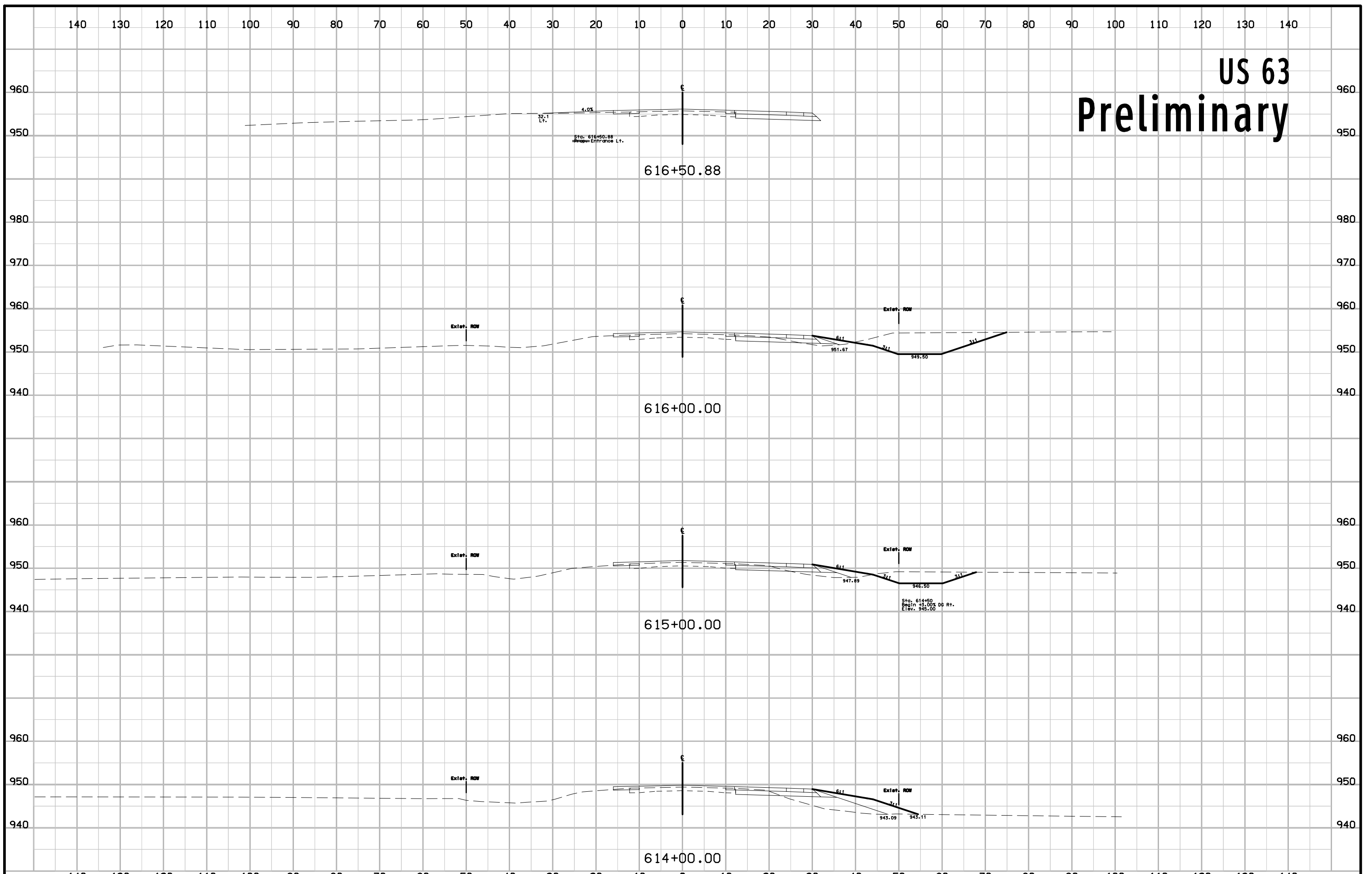
US 63 Preliminary



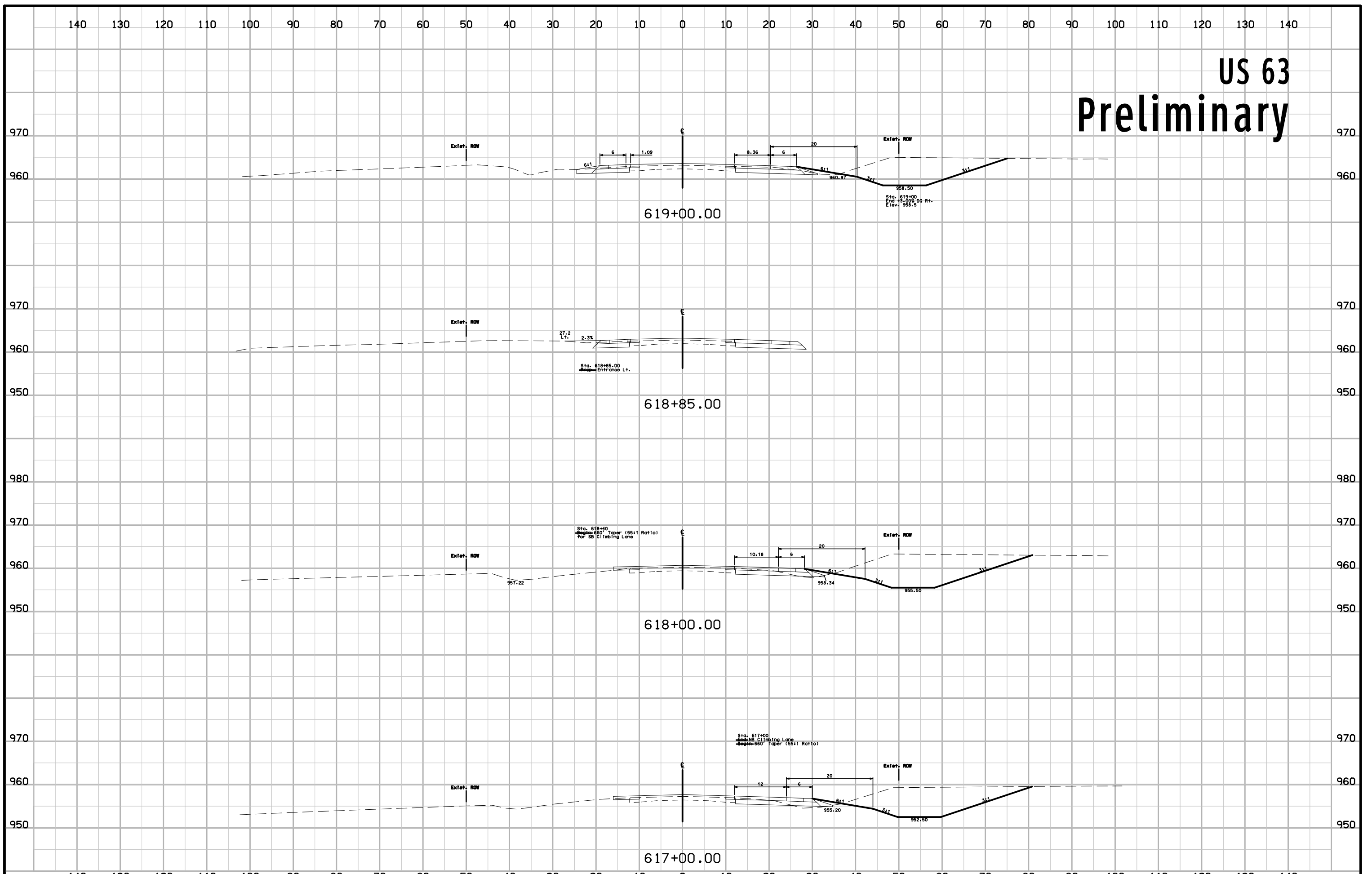
US 63 Preliminary



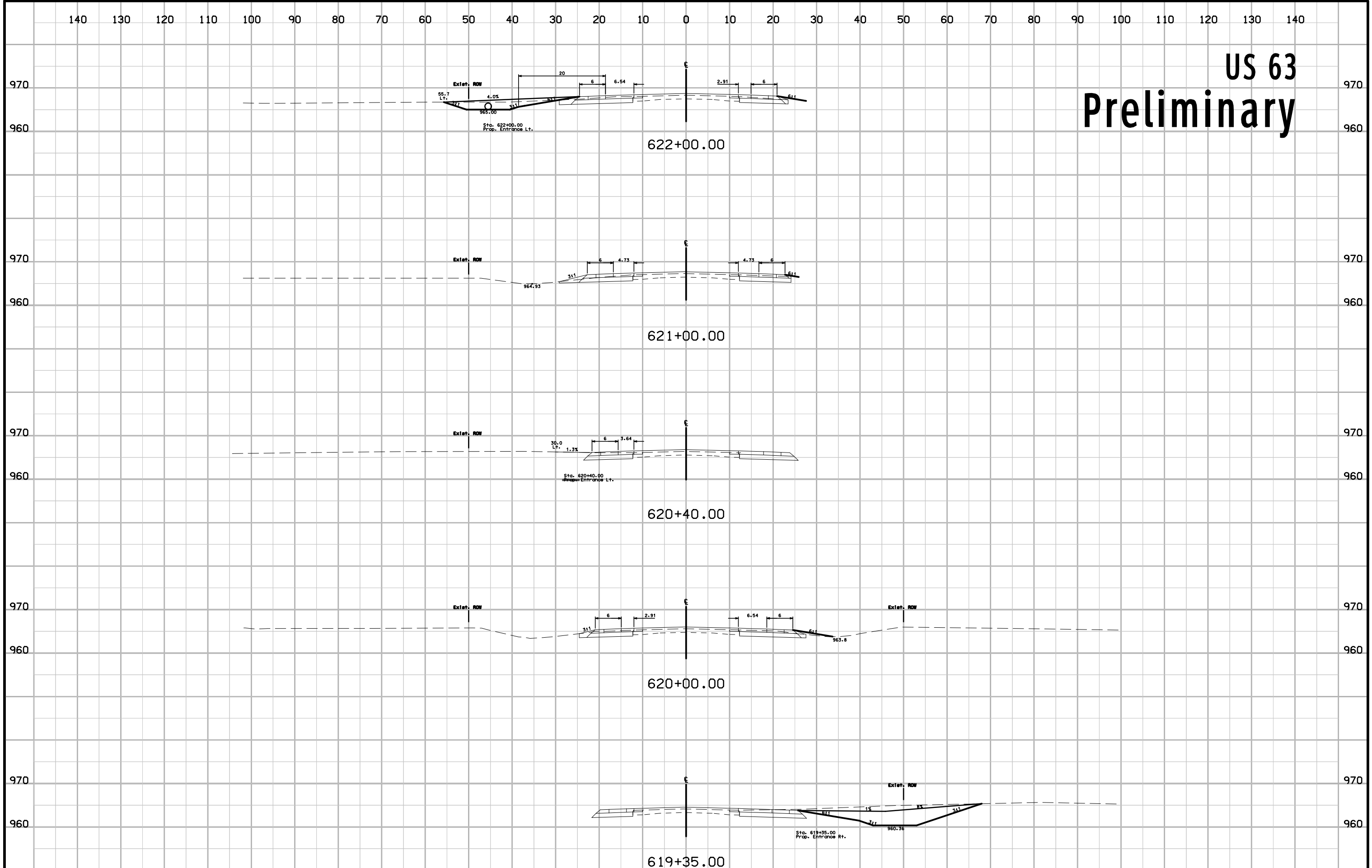
US 63 Preliminary



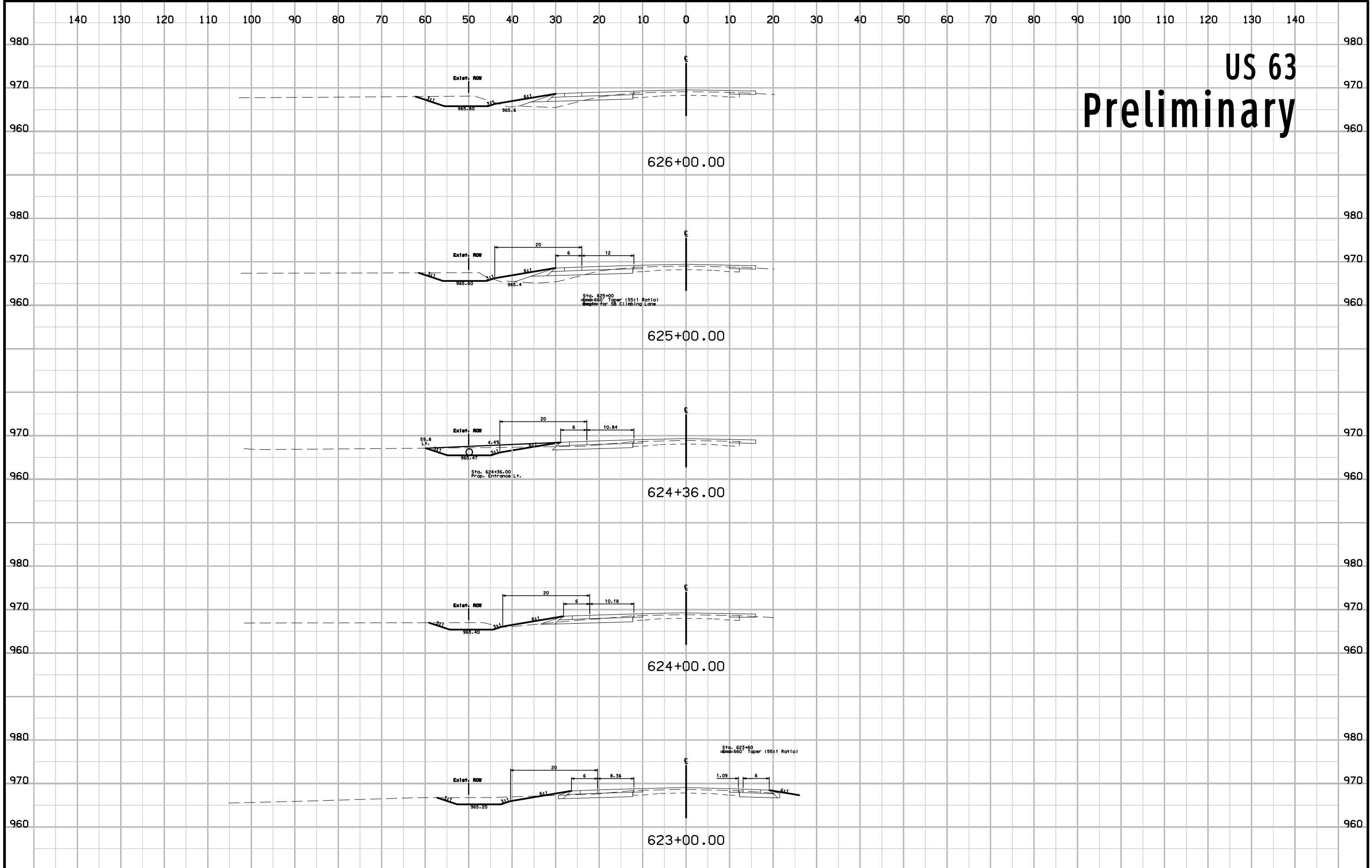
US 63 Preliminary



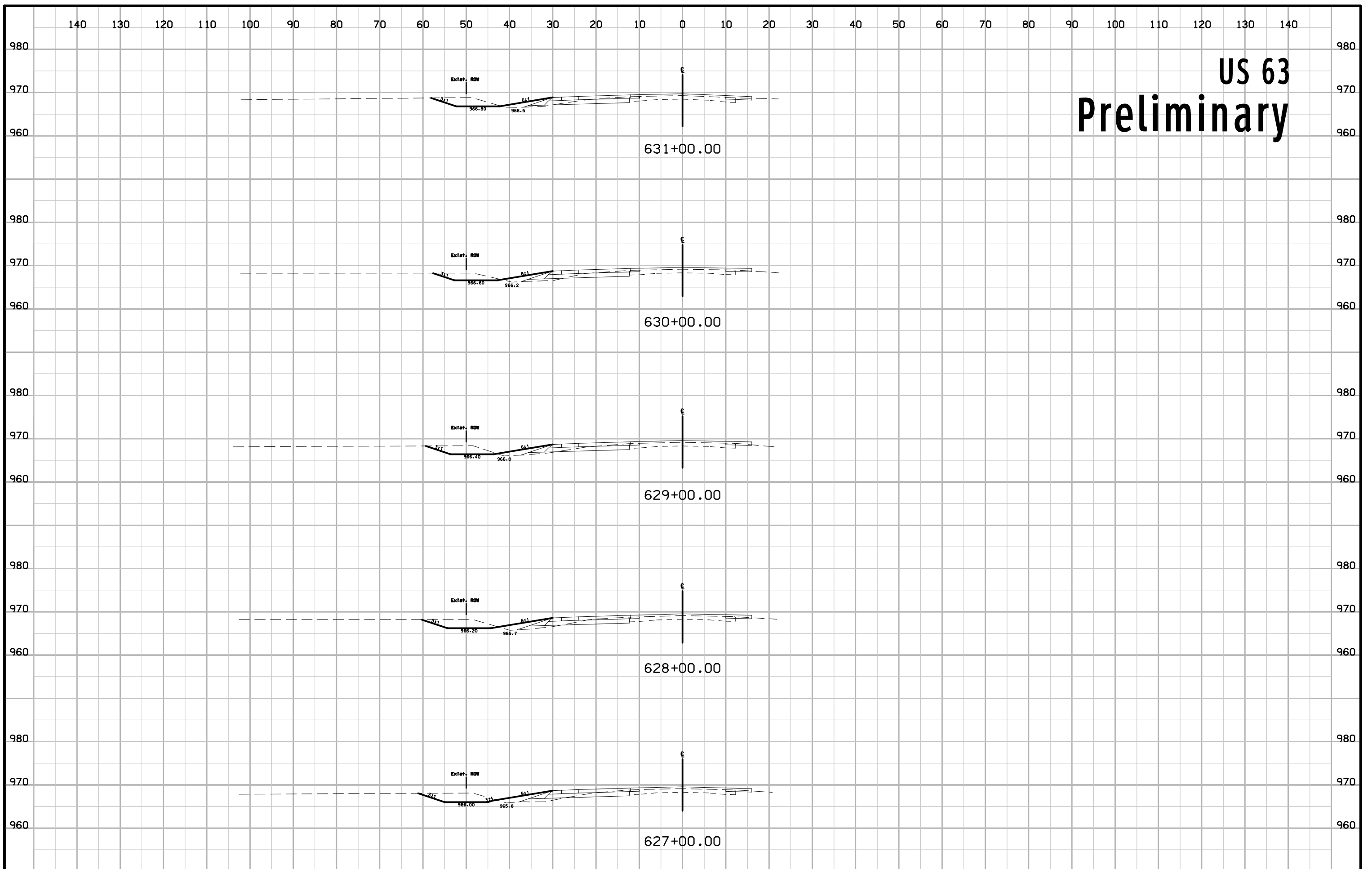
US 63 Preliminary



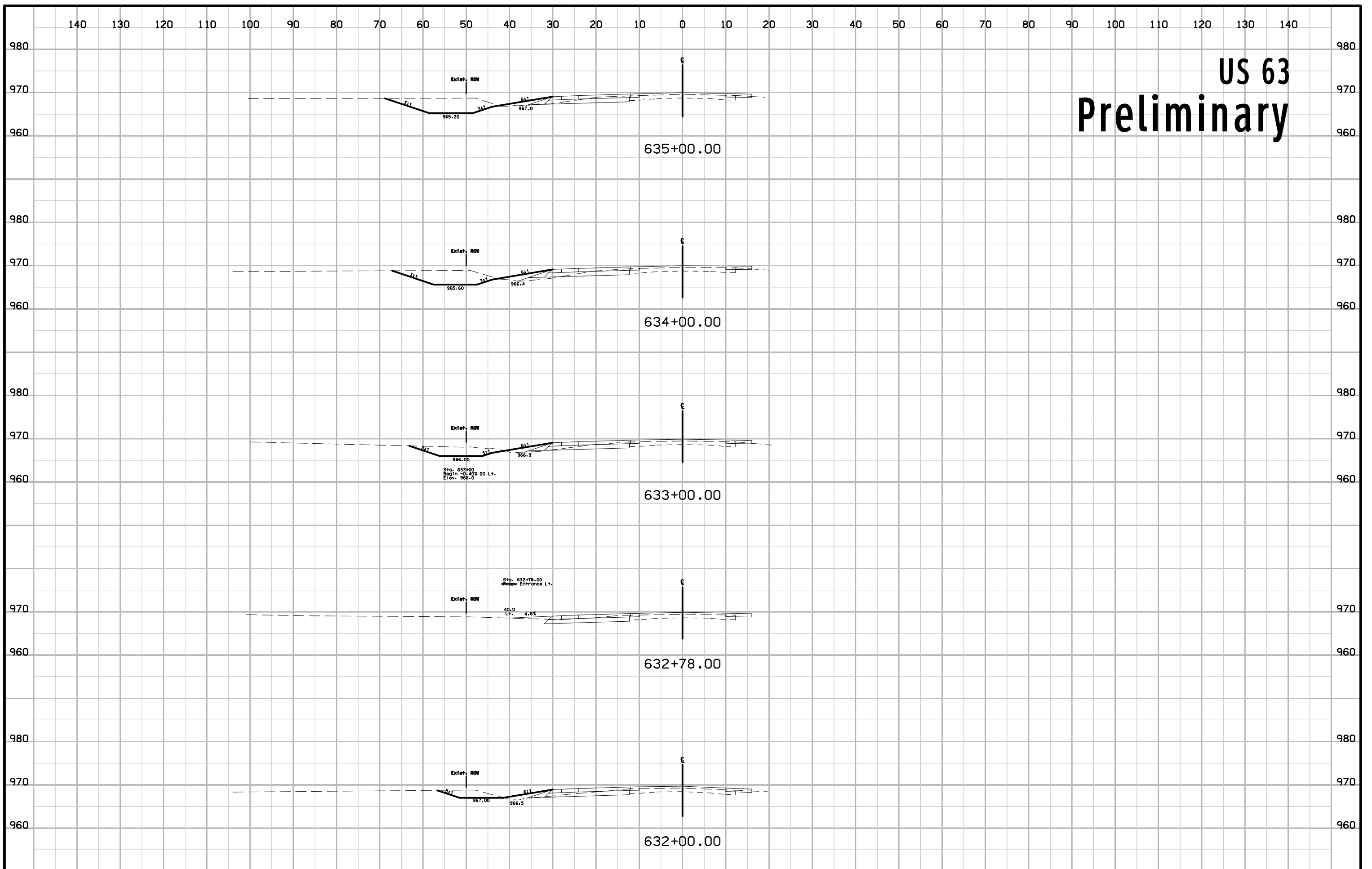
US 63 Preliminary



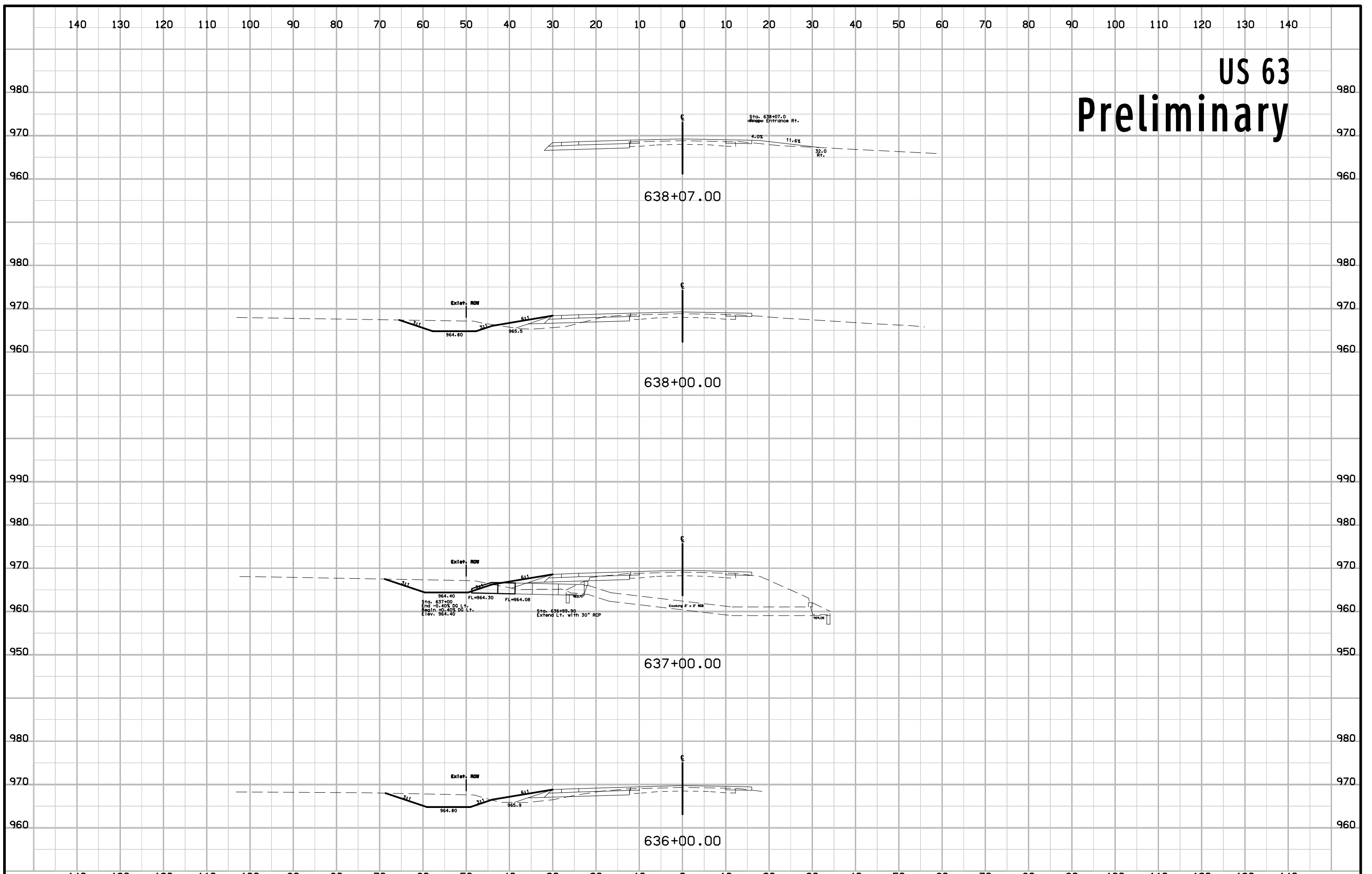
US 63 Preliminary



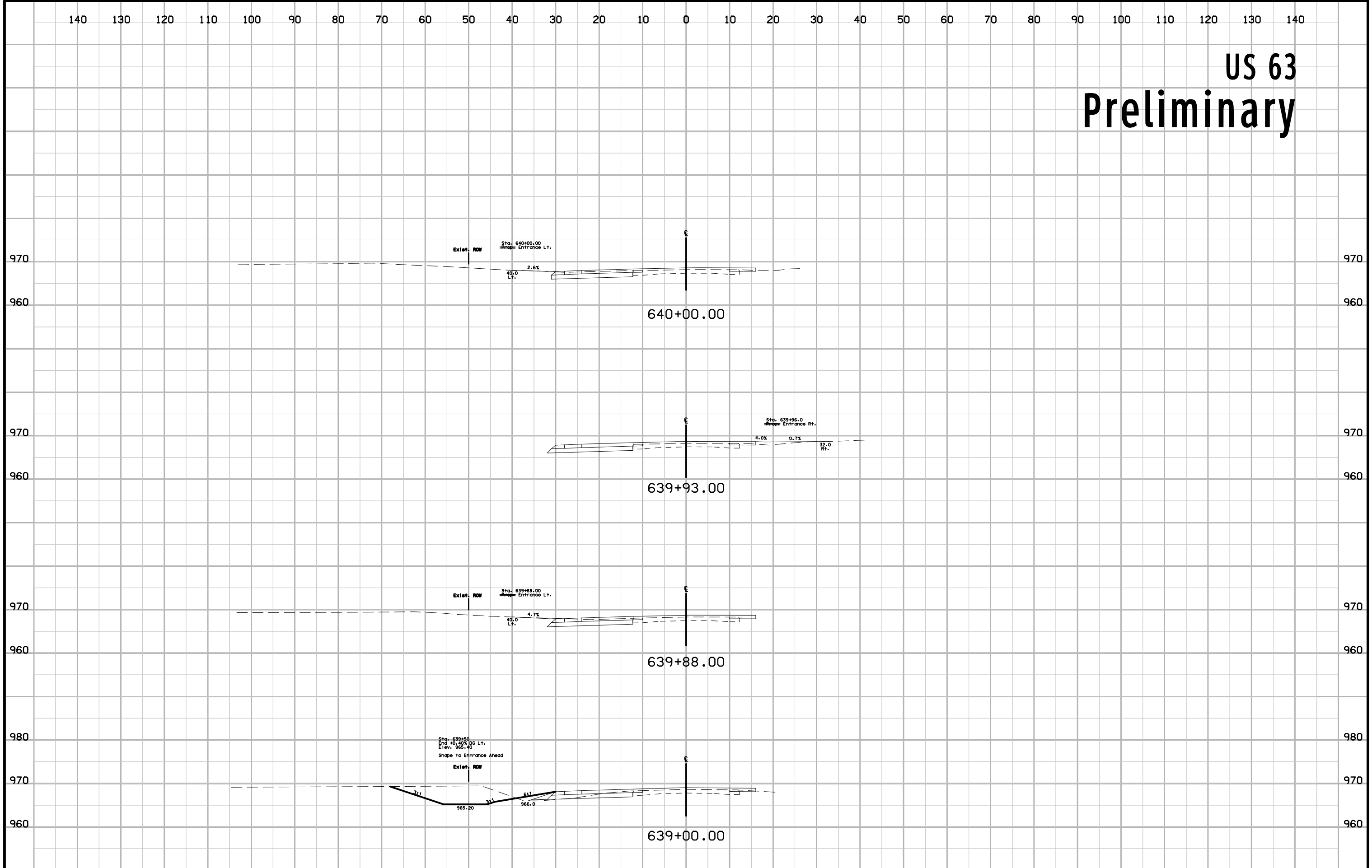
US 63 Preliminary



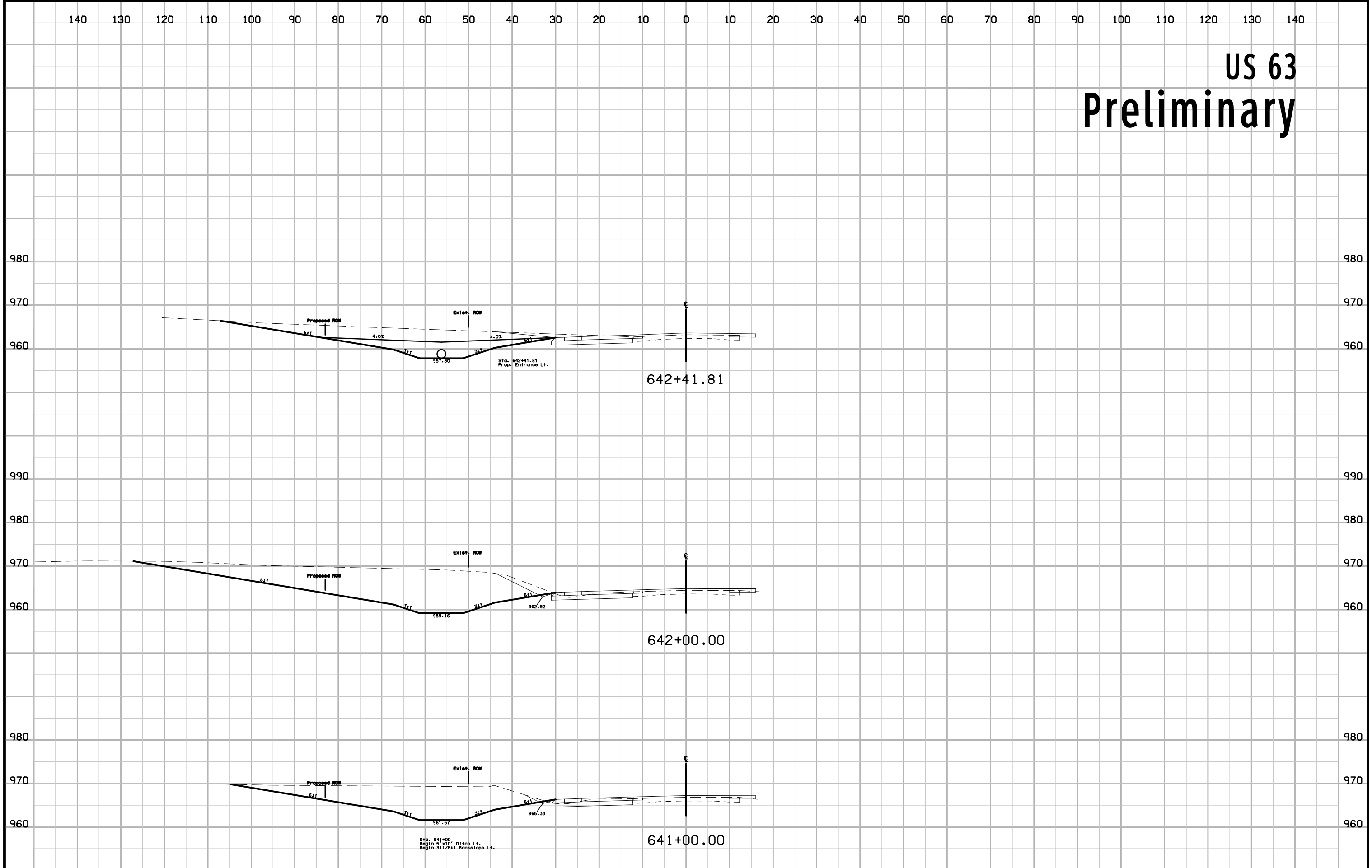
US 63 Preliminary



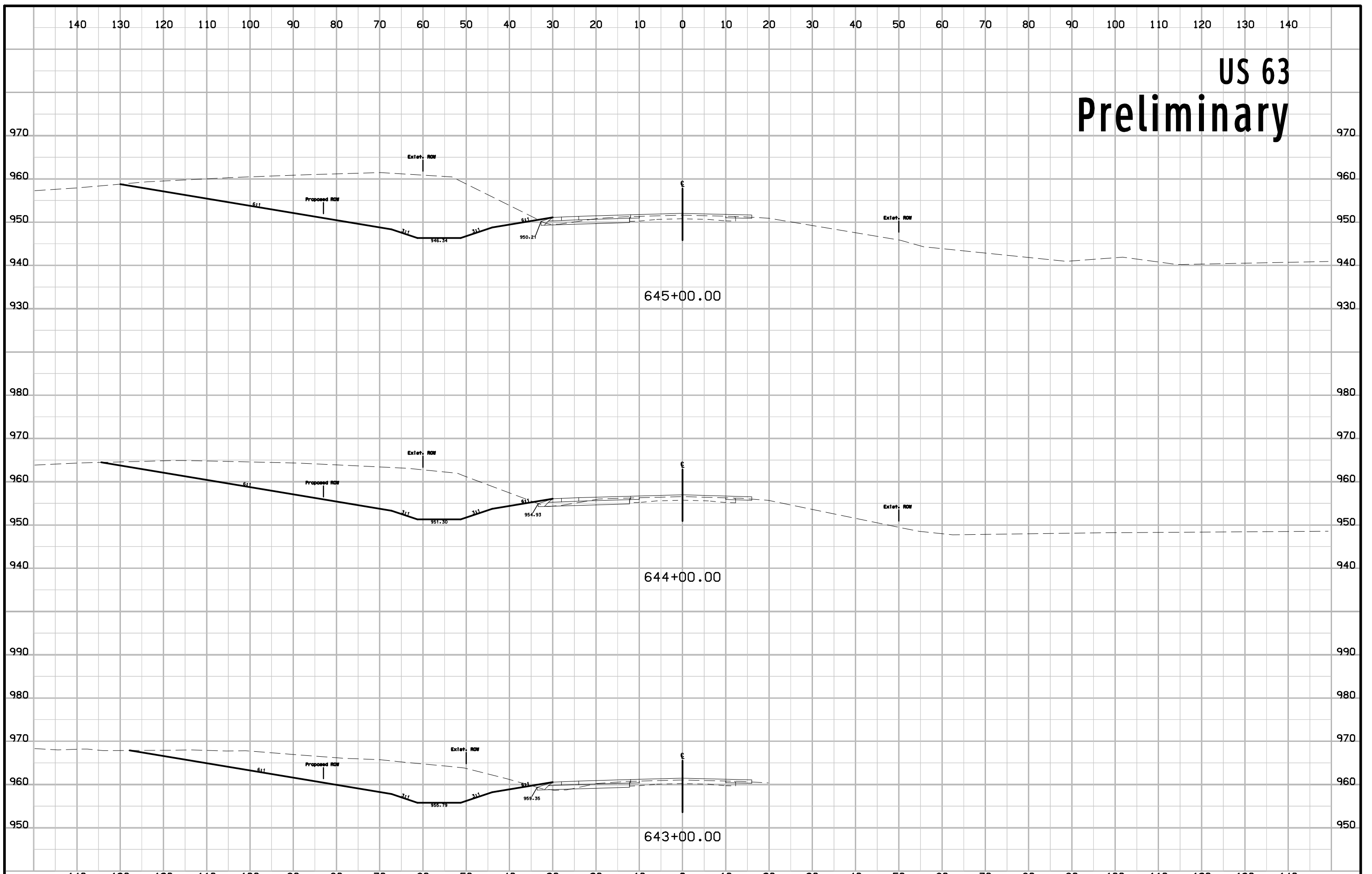
US 63 Preliminary



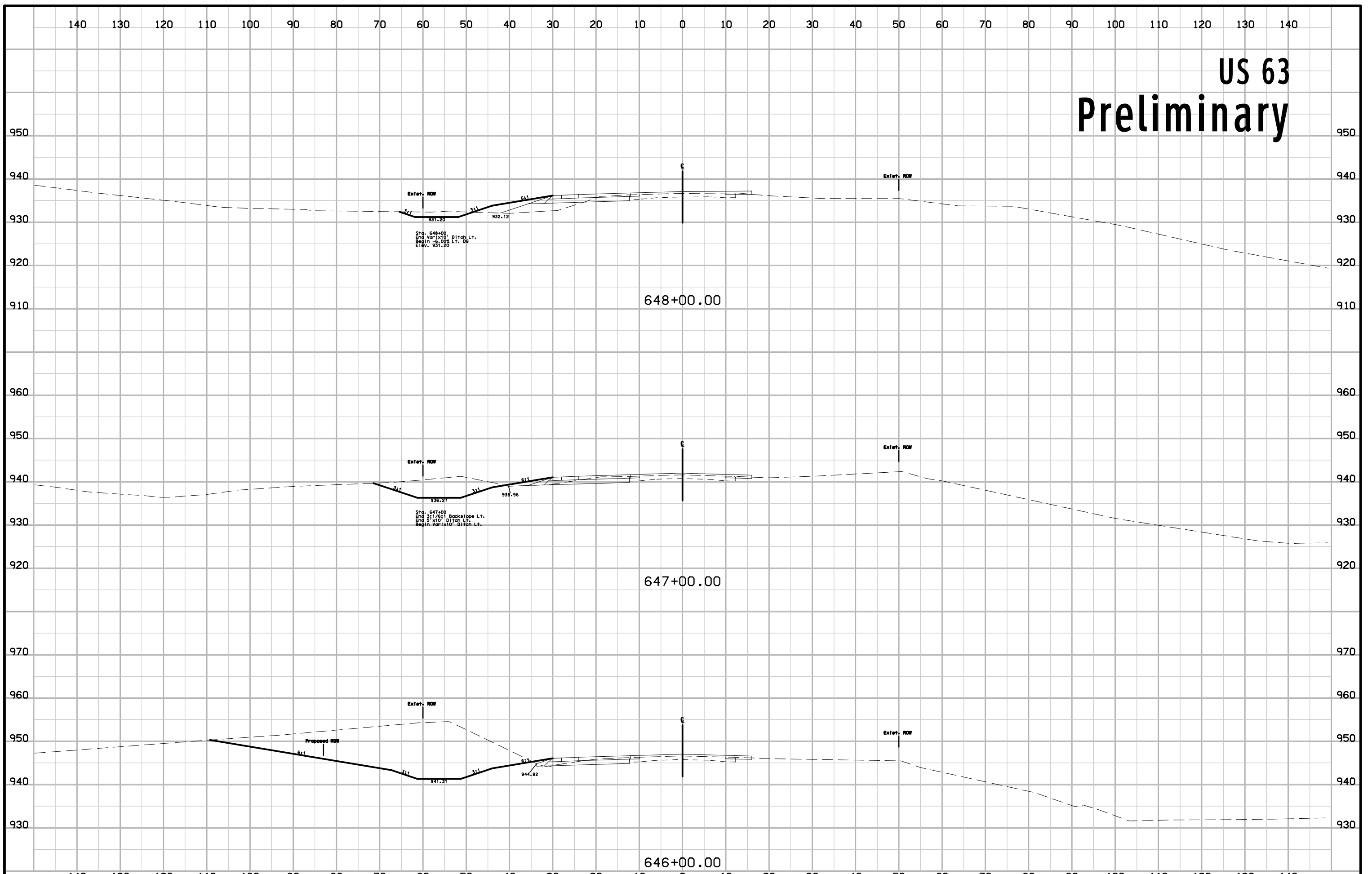
US 63 Preliminary



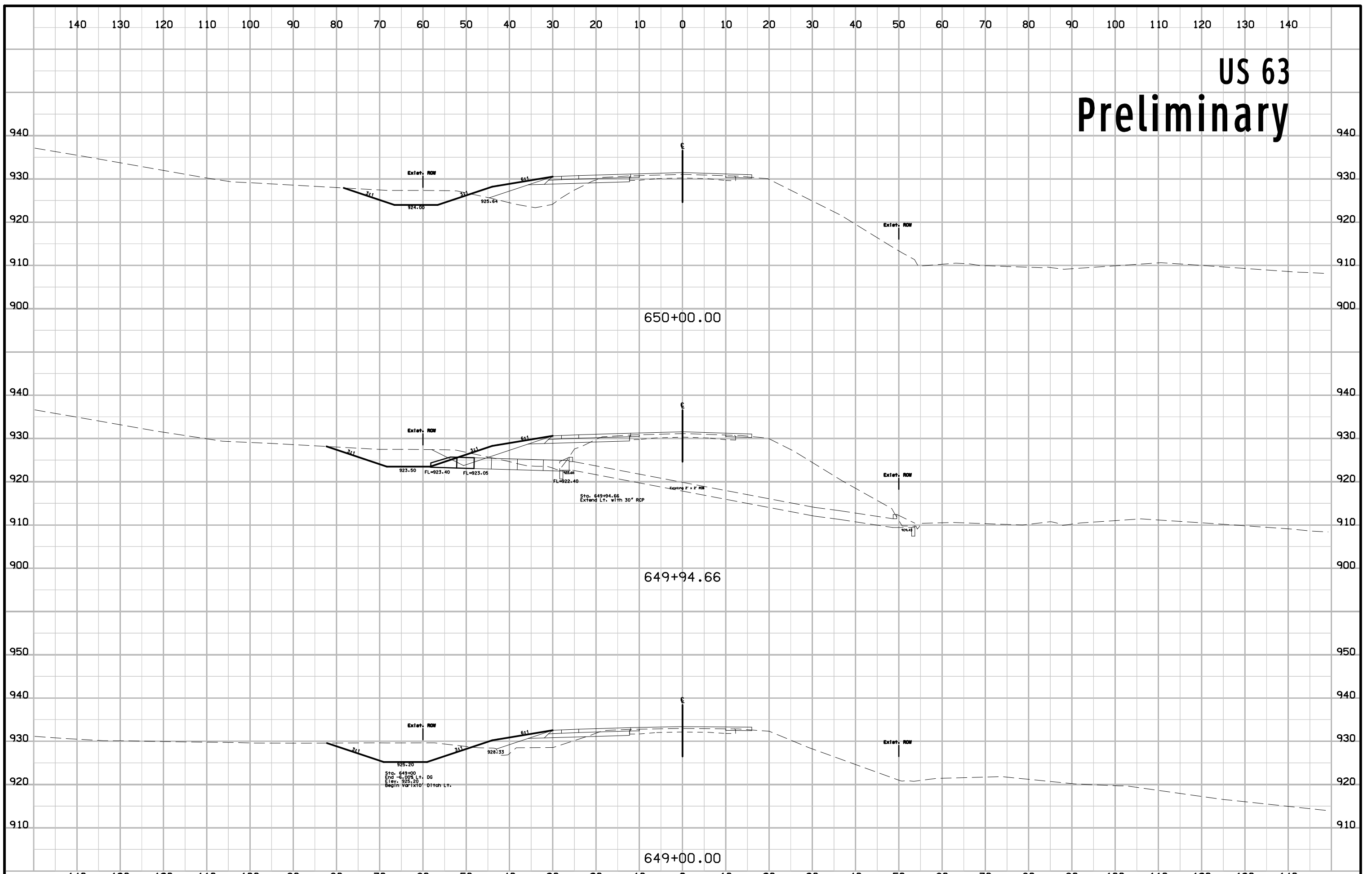
US 63 Preliminary



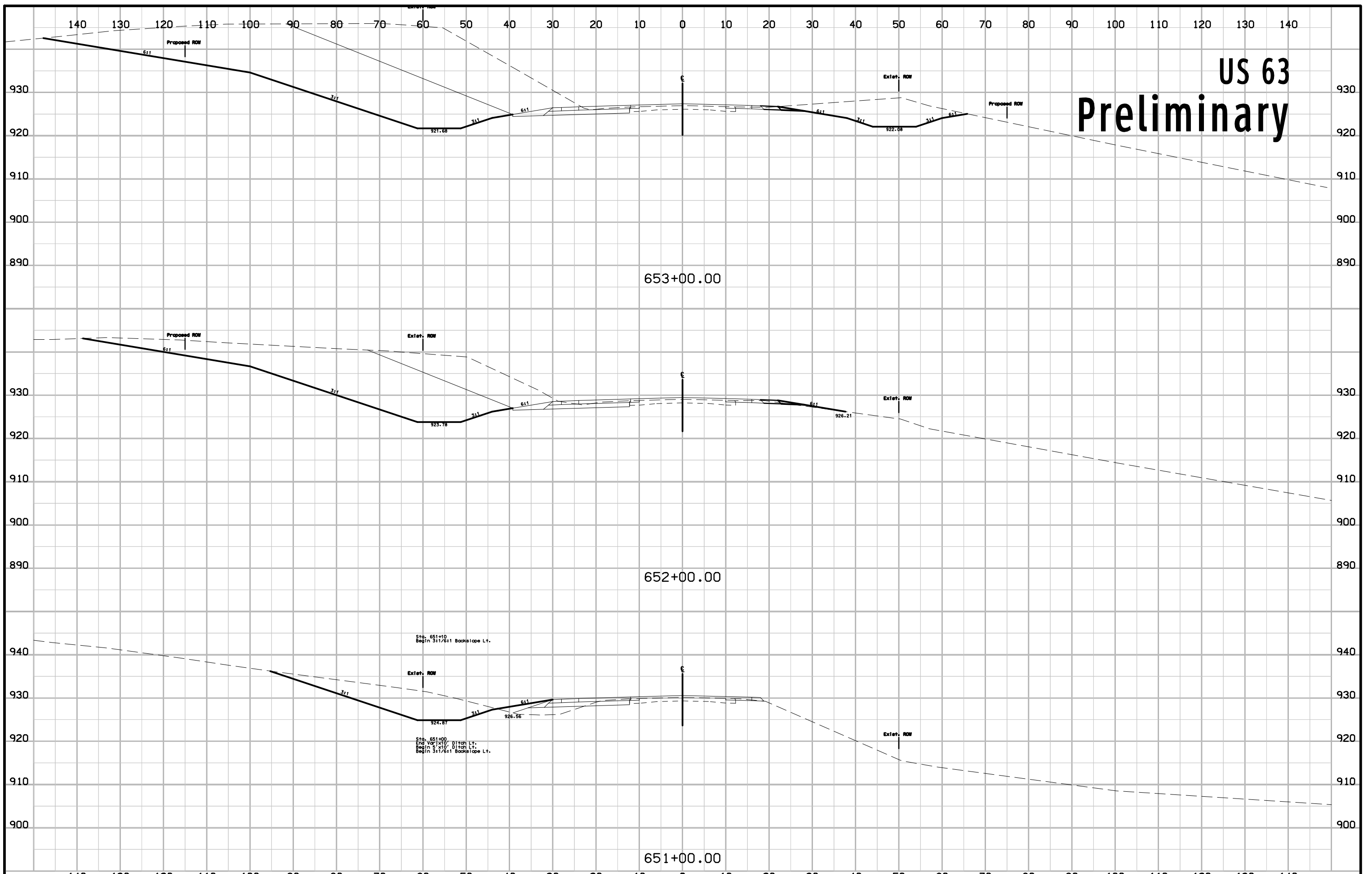
US 63 Preliminary



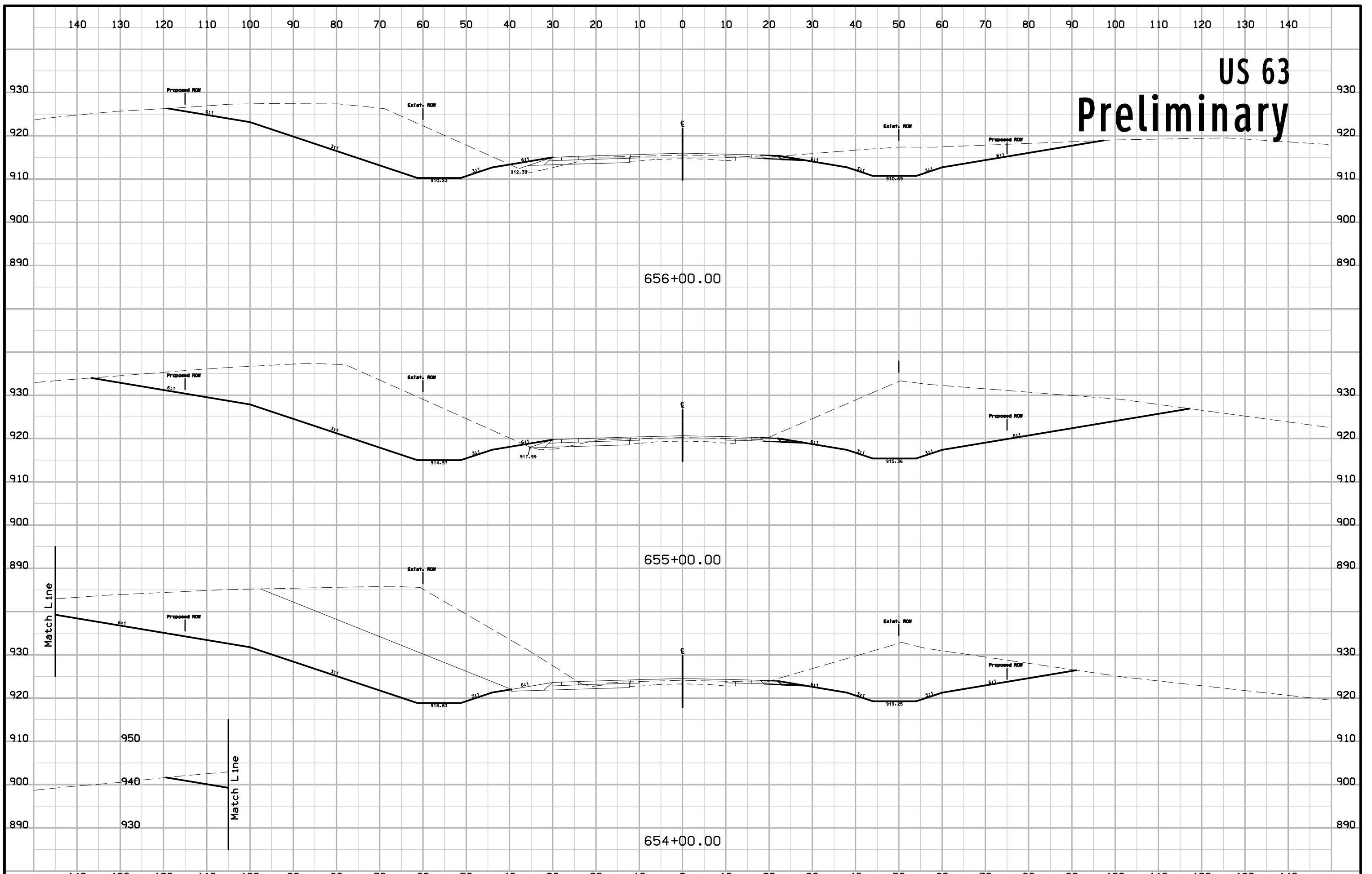
US 63 Preliminary



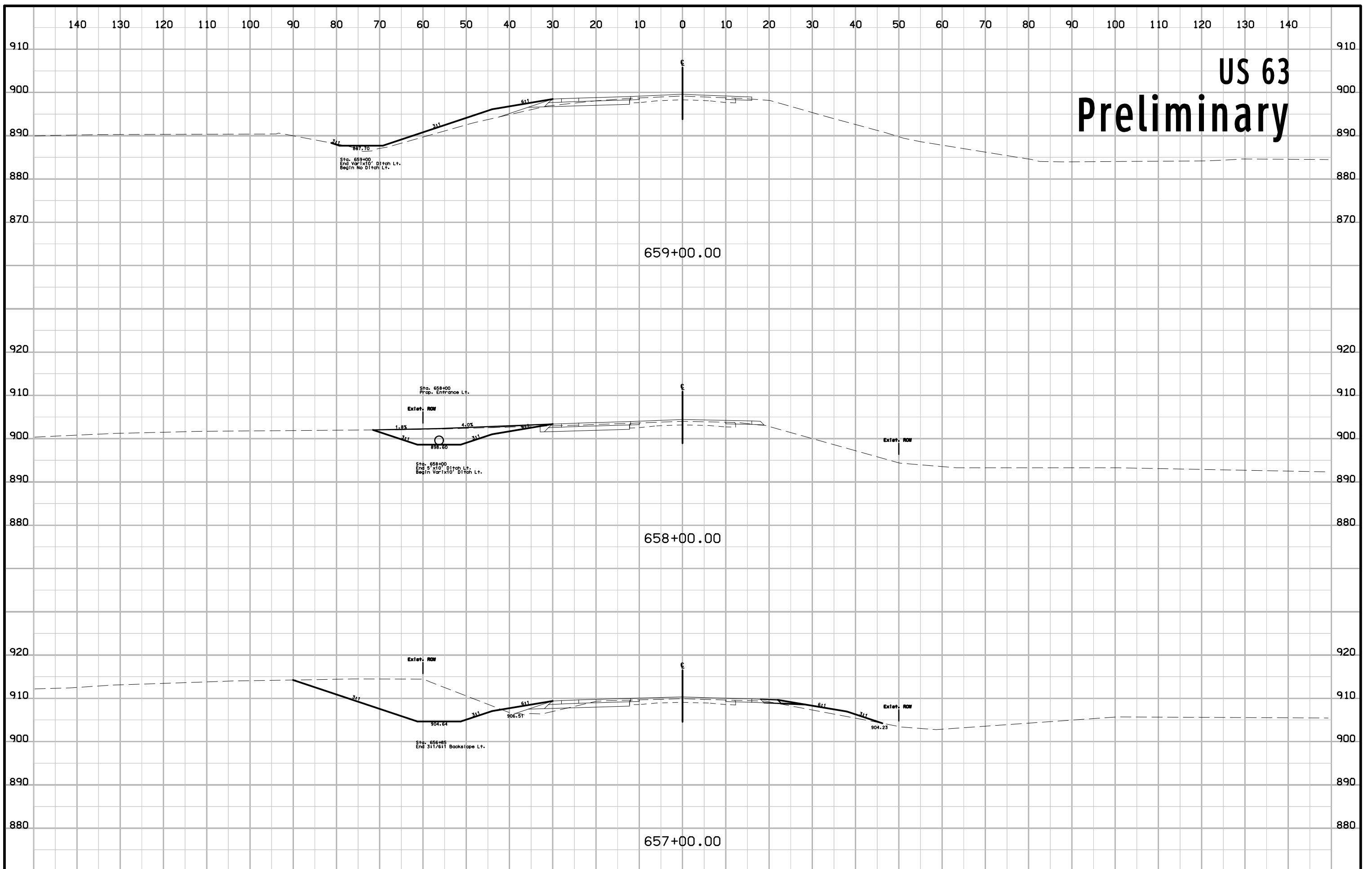
US 63 Preliminary



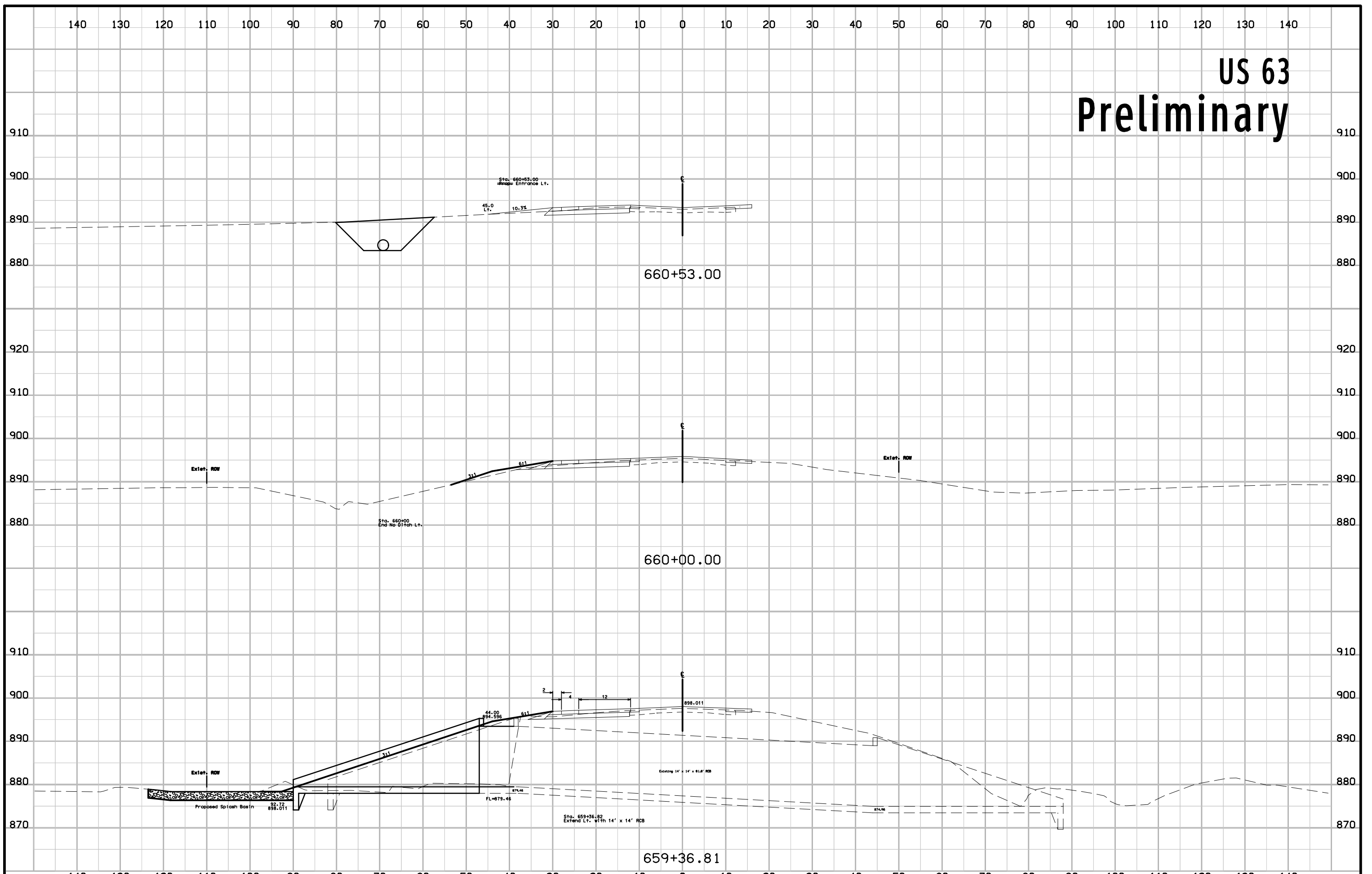
US 63 Preliminary



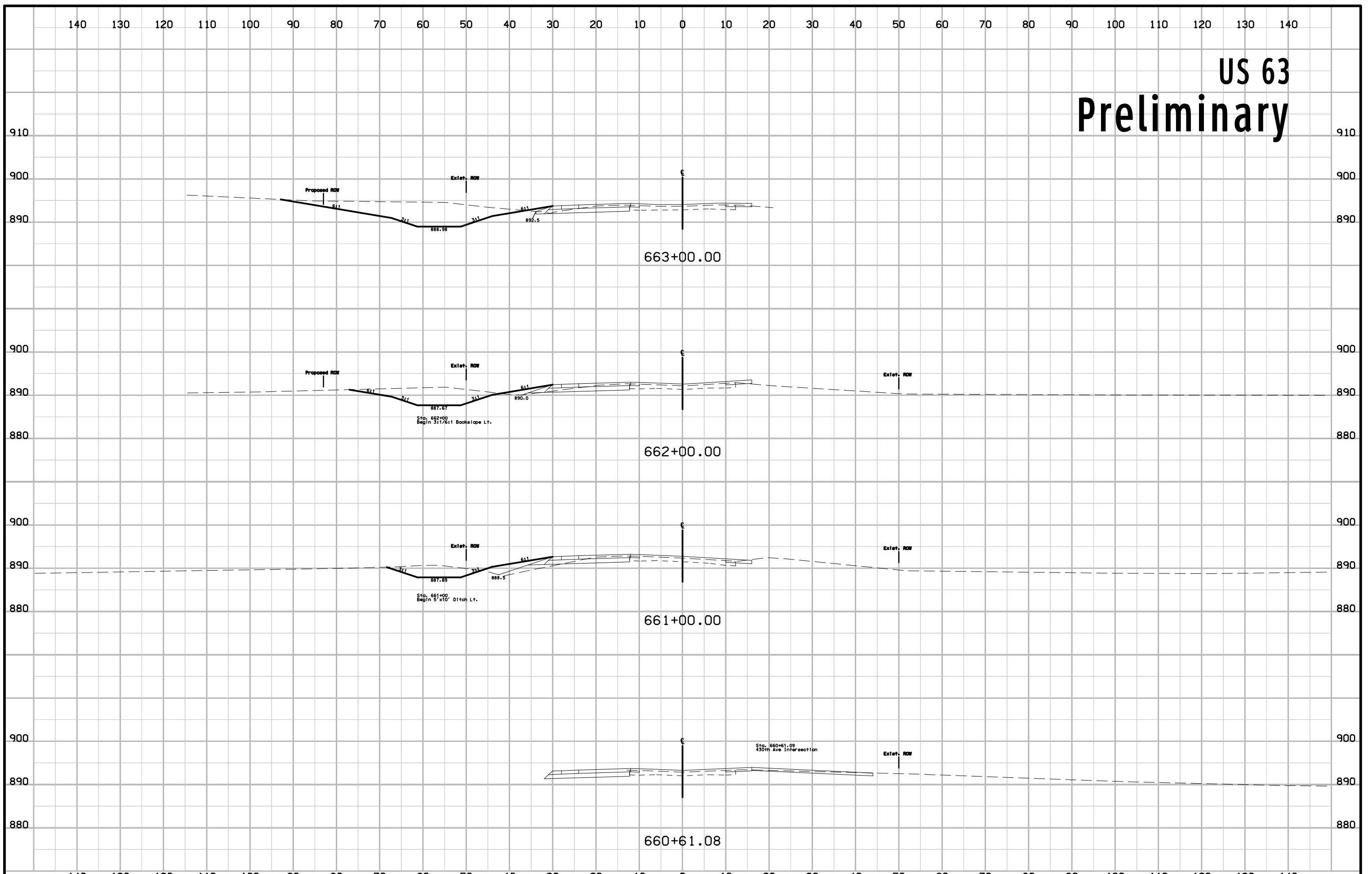
US 63 Preliminary



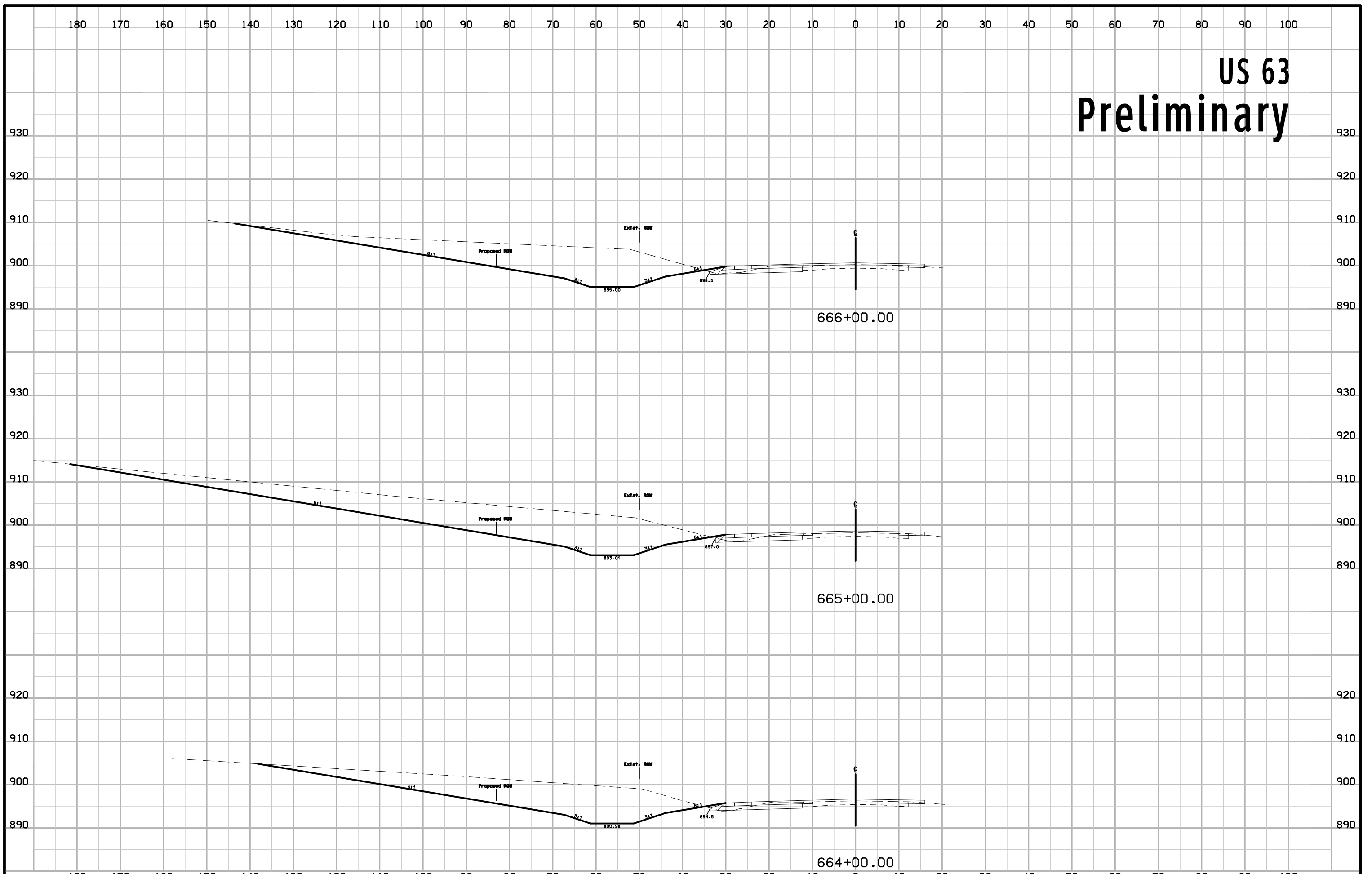
US 63 Preliminary



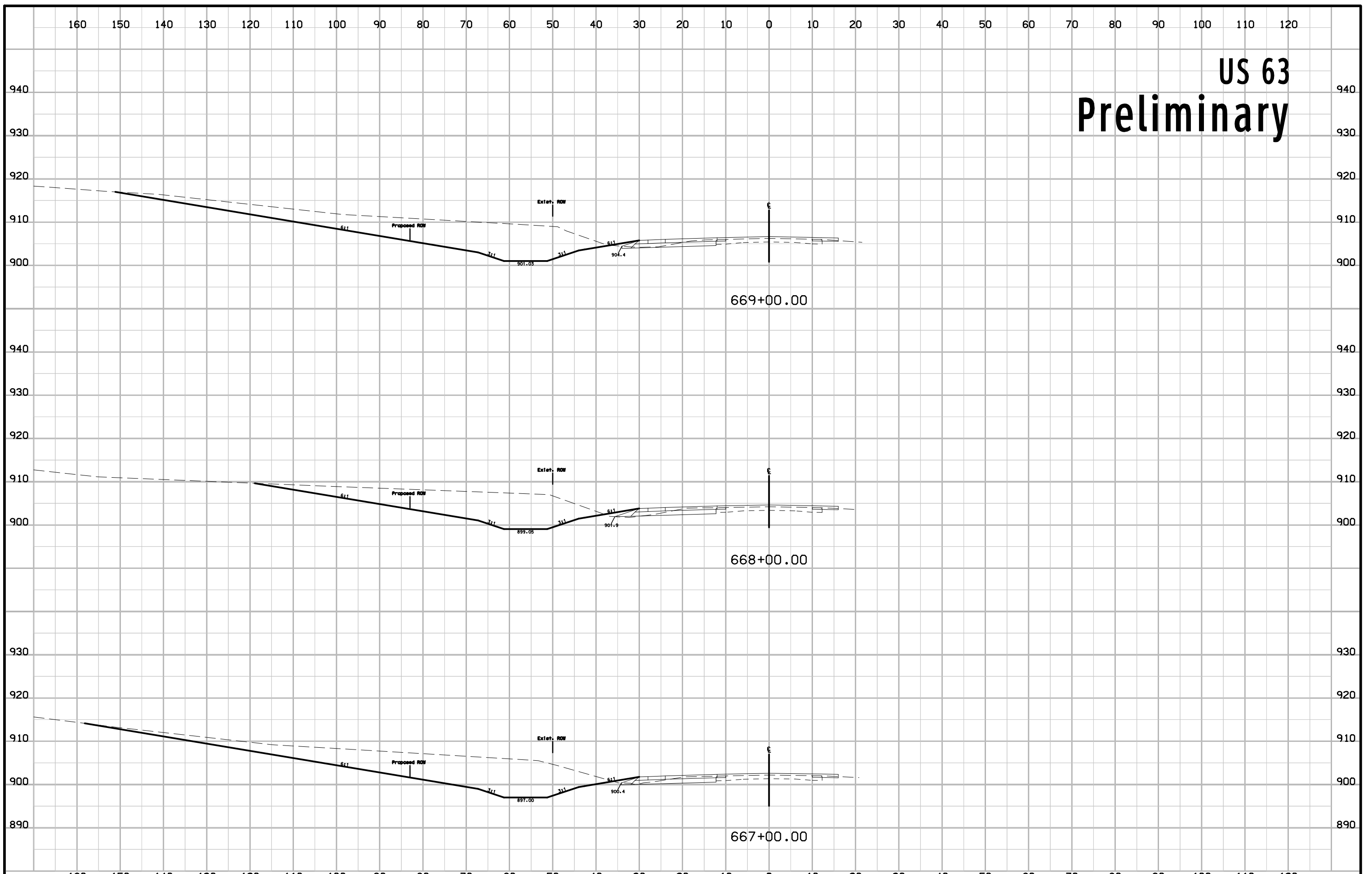
US 63 Preliminary



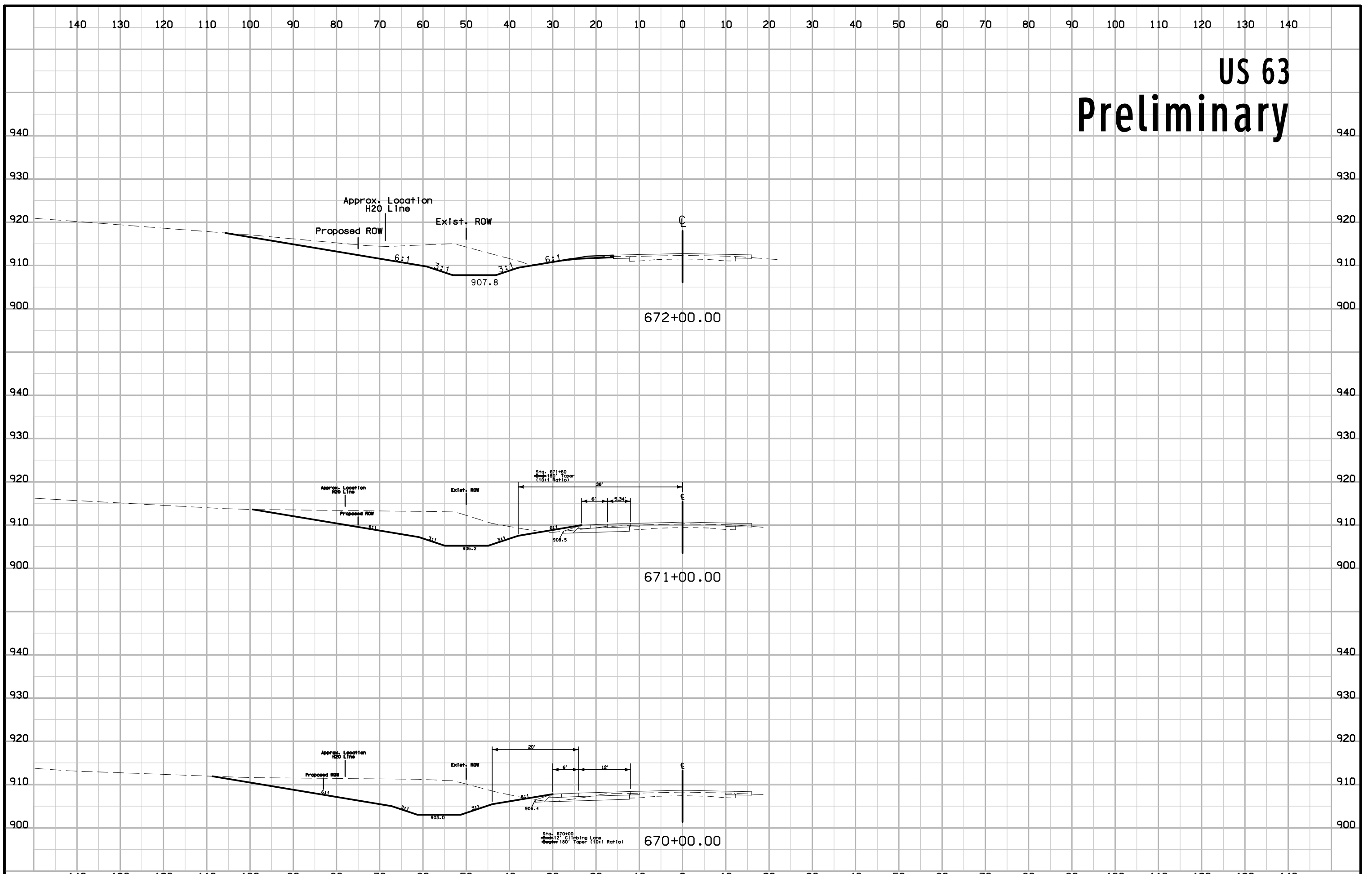
US 63 Preliminary



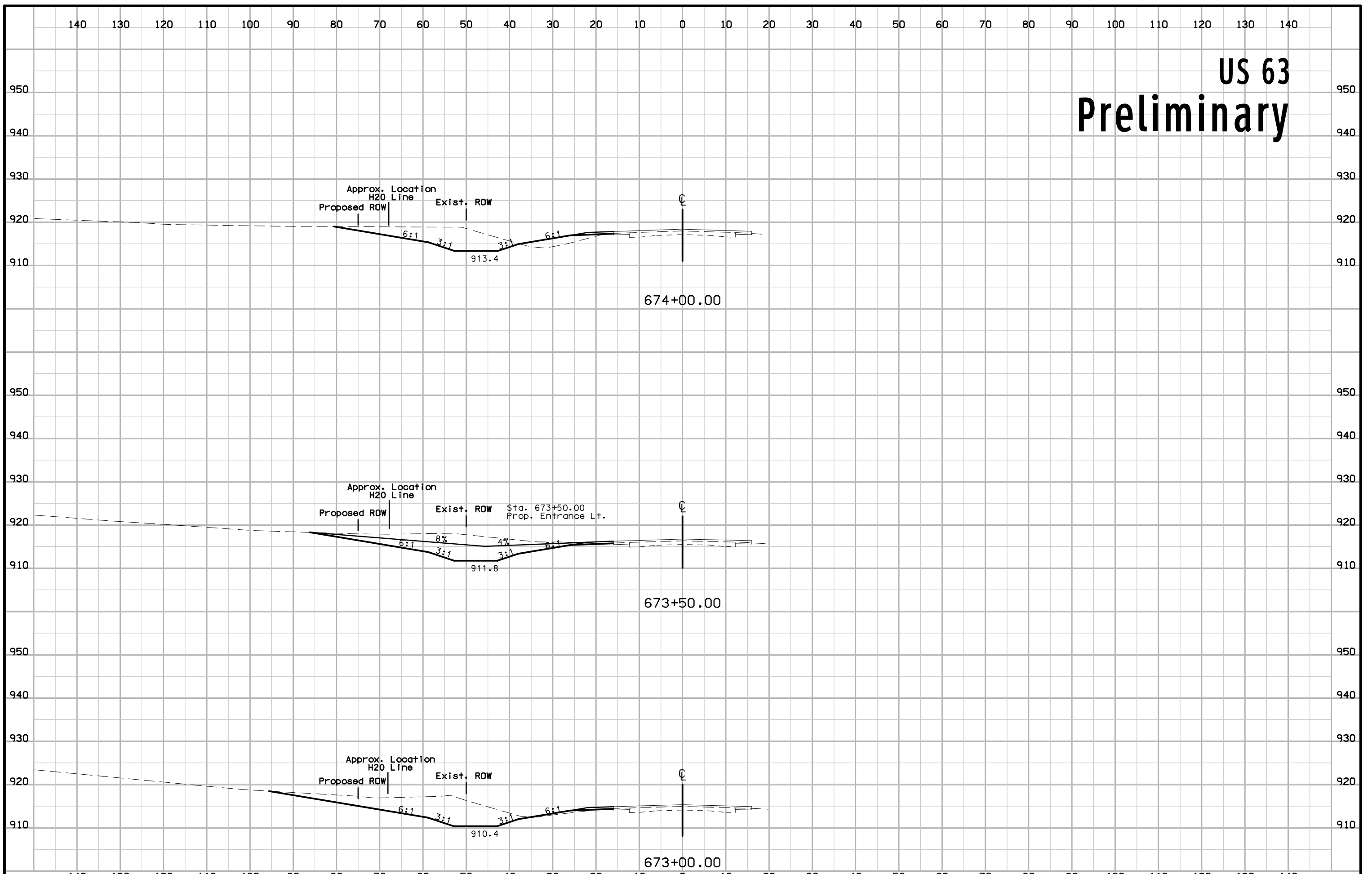
US 63 Preliminary



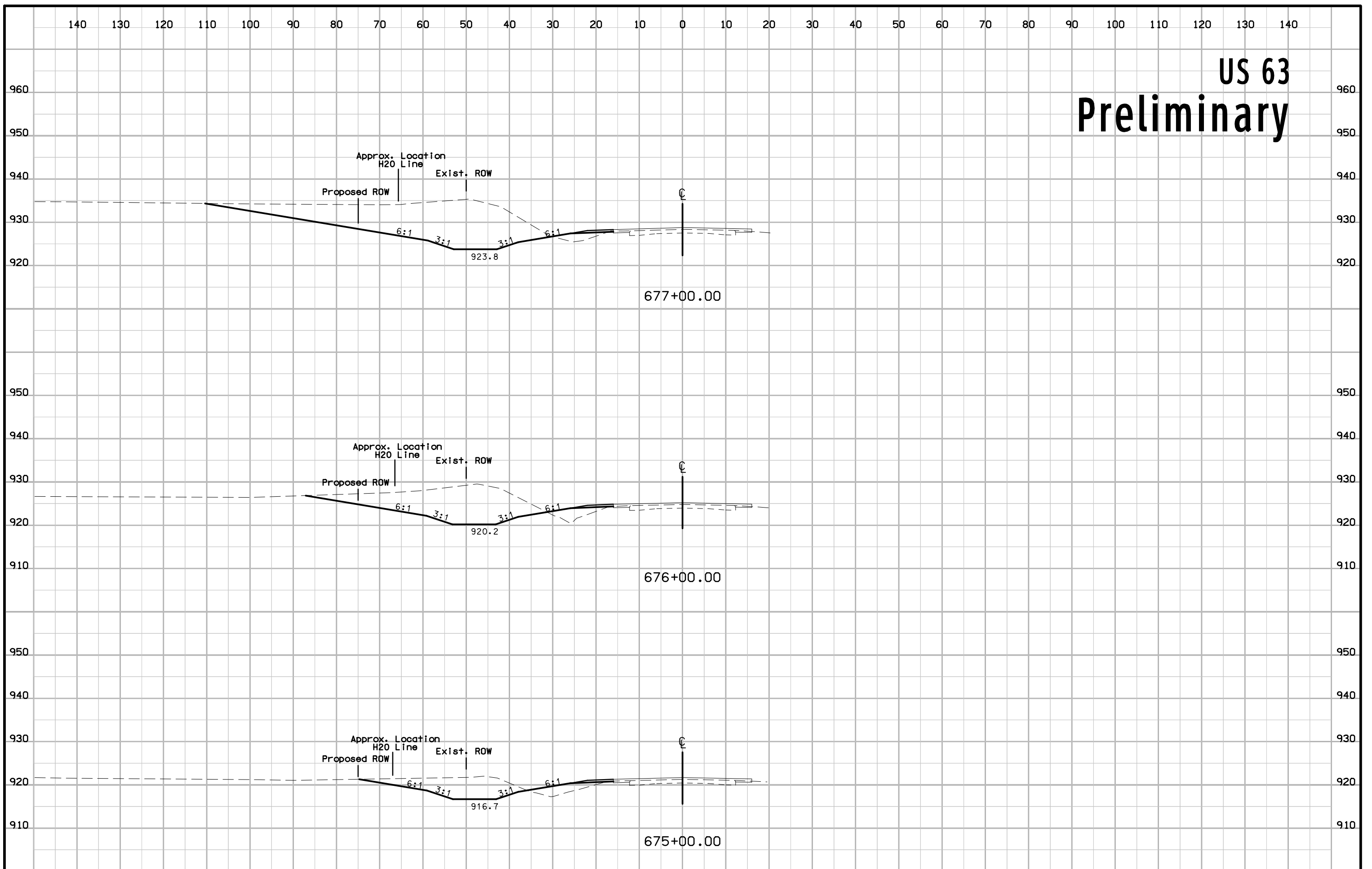
US 63 Preliminary



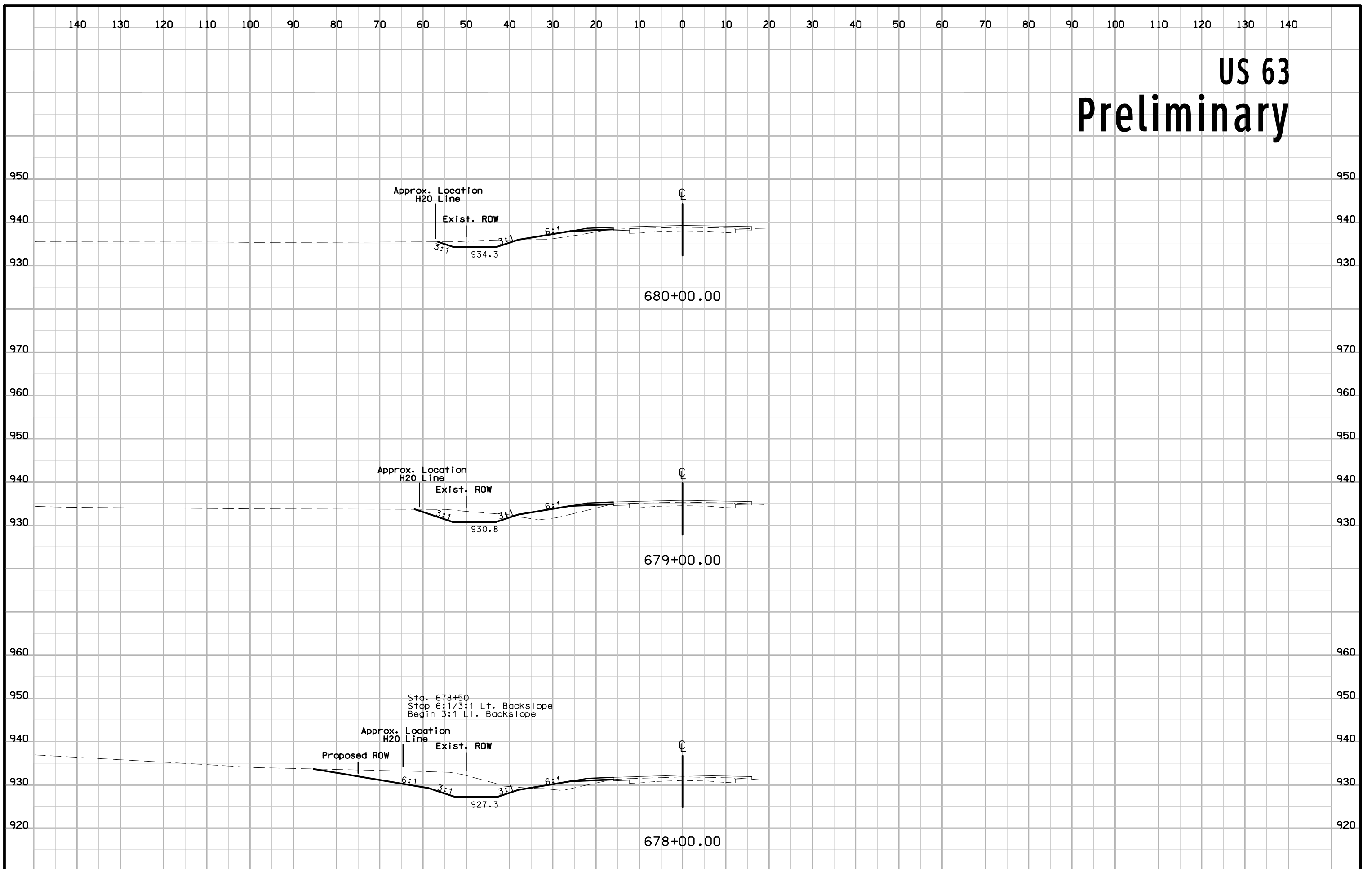
US 63 Preliminary



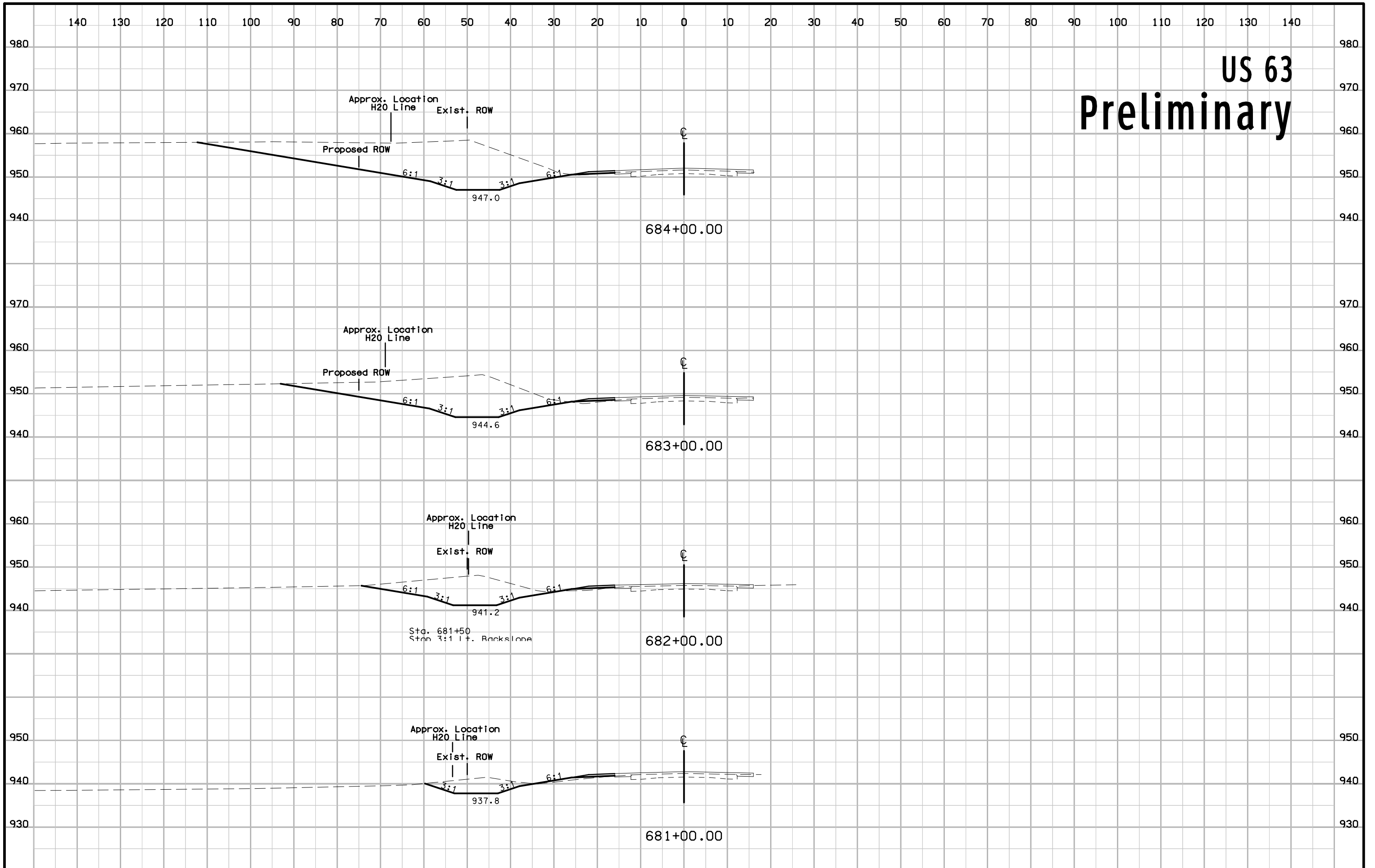
US 63 Preliminary



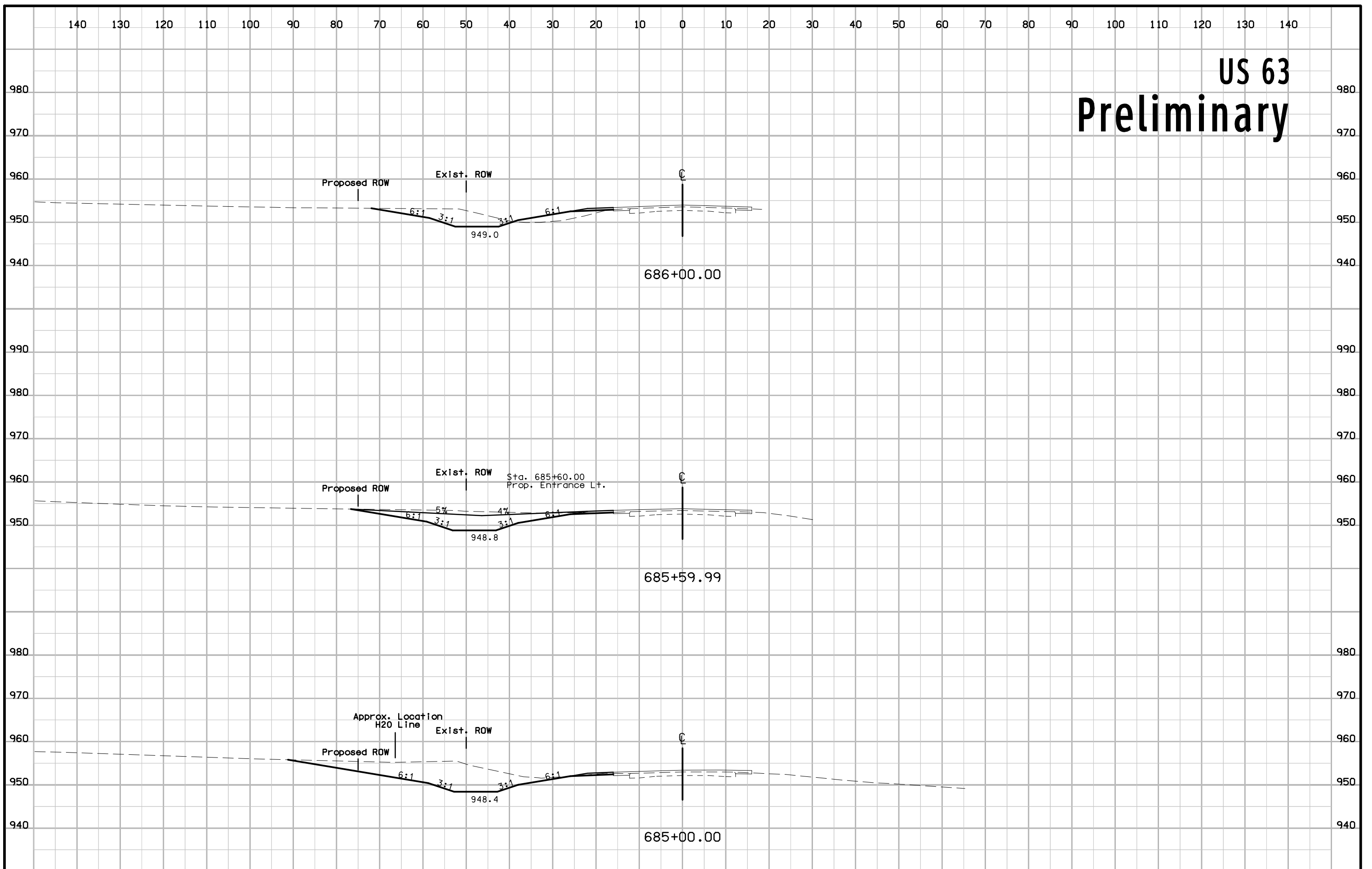
US 63 Preliminary



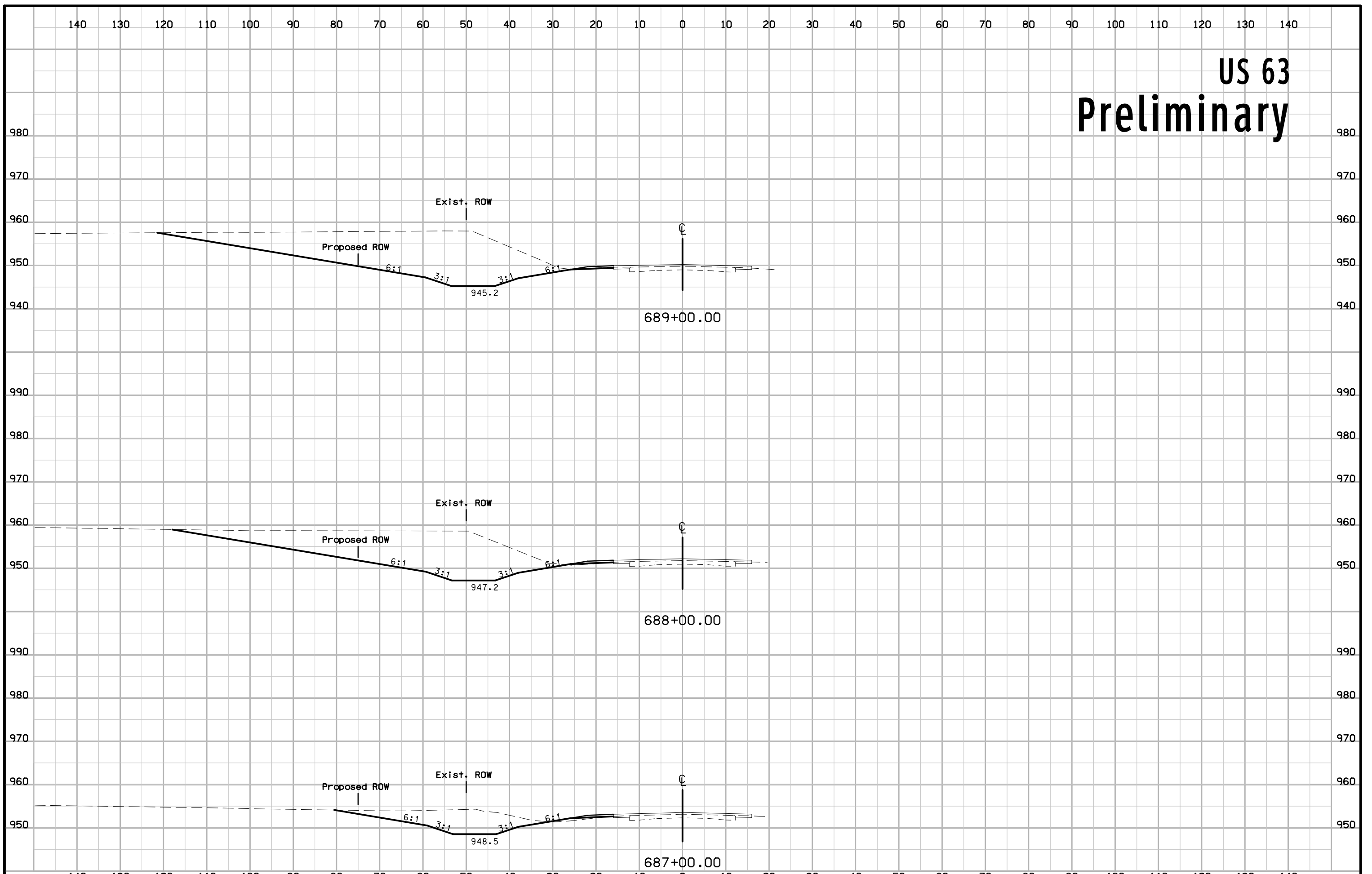
US 63 Preliminary



US 63 Preliminary



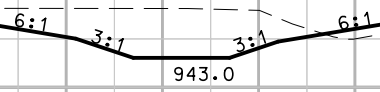
US 63 Preliminary



US 63 Preliminary

Sta. 690+00
End 5' x 10' Lt. Ditch
with 6:1/3:1 Backslope
Transition to existing
cross section in 100 feet.

Exist. ROW



690+00.00