PCC PAVEMENT - GRADE AND NEW
NHSX-030-5(302)--3H-85
LETTING DATE 11/19/2024

STORY COUNTY

IOWA | DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
STORY COUNTY
PCC PAVEMENT - GRADE AND NEW

S Duff Ave to S Dayton Ave in Ames (Median)

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.

IOWA ONE CALL
1-800-292-8989 811
www.iowaonecall.com
Know what's below. Call before you dig.

REVISIONS

TOTAL 341
PROJECT IDENTIFICATION NUMBER
19-85-030-020
PROJECT NUMBER
NHSX-030-5(302)--3H-85
R.O.W. PROJECT NUMBER
NHSN-030-5(272)--2R-85

INDEX OF SHEETS

No.	DESCRIPTION
A Sheets	**Title Sheets**
A.1	Title Sheet
A.2	Location Map Sheet
B Sheets	**Typical Cross Sections and Details**
B.1 - 6	Typical Cross Sections and Details
C Sheets	**Quantities and General Information**
C.1 - 9	Estimated Project Quantities and Reference Notes
C.10	Project Description
C.19	Standard Road Plans
C.27	Index of Tabulations
C.10 - 29	Tabulations
C.30	General Notes
CS Sheets	**Soils Tabulations**
CS.1	Soils Tabulations
D Sheets	**Mainline Plan and Profile Sheets**
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - 6	US Highway 30
E Sheets	**Side Road Plan and Profile Sheets**
* E.1	Dayton Avenue
* E.2	Recreational Trail
ED Sheets	**Drainage Plan and Profile Sheets**
* ED.1	Ramp C Dike Site 3
* ED.2 - 4	Ramp B Dike Site 4
F Sheets	**Detour or Temporary Pavement Sheets**
* F.1 - 3	Detour Plan and Profile Sheets
G Sheets	**Survey Sheets**
G.1 - 3	Reference Ties and Bench Marks
G.4 - 6	Horizontal Control Tab. & Super for all Alignments
H Sheets	**Right-of-Way Sheets**
* H.1 - 2	US Highway 30
J Sheets	**Traffic Control and Staging Sheets**
J.1	Traffic Control Plan
J.2	Traffic Control Closure Table
J.3	511 Travel Restrictions
J.4	Staging Notes
J.5	Coordinated Operations
* J.6	Traffic Control & Staging Legend & Symbol Info. Sheet
* J.7 - 12	Staging and Traffic Control Sheets Stage 1
* J.13 - 18	Staging and Traffic Control Sheets Stage 2
* J.19 - 24	Staging and Traffic Control Sheets Stage 3
* J.25 - 30	Staging and Traffic Control Sheets Winter Stage
* J.31 - 32	Water Trail Signing Detail Sheets
K Sheets	**Interchange Sheets**
* K.1 - 2	Duff Avenue Ramp A Plan and Profile Sheets
* K.3 - 6	Duff Avenue Ramp D Plan and Profile Sheets
* K.7 - 9	Dayton Avenue Ramp B Plan and Profile Sheets
* K.10 - 13	Dayton Avenue Ramp C Plan and Profile Sheets
L Sheets	**Geometric, Staking and Jointing Sheets**
* L.1 - 2	Detour Pavement Staking Sheets
Q Sheets	**Soils Sheets**
* Q.1	Soils Legend and Symbol Information Sheet
* Q.2 - 11	US Highway 30 Plan and Profile Sheets
* Q.12 - 13	Duff Avenue Ramp A Plan and Profile Sheets
* Q.14 - 15	Dayton Avenue Ramp B Plan and Profile Sheets
* Q.16 - 19	Dayton Avenue Ramp C Plan and Profile Sheets
* Q.20 - 23	Duff Avenue Ramp D Plan and Profile Sheets
* Q.24 - 25	Dayton Ave Ramp C Dike Site 3 Plan and Profile Sheets
* Q.26 - 27	Dayton Ave Ramp B Dike Site 4 Plan and Profile Sheets

INDEX OF SHEETS

No.	DESCRIPTION
R Sheets	**Erosion Control Sheets**
RC.1 - 11	Est. Quantities, PPP, General Notes and Tabulations
* RR.1	Erosion Control Legend and Symbol Information Sheet
* RR.2 - 7	Erosion Control Device Maps
* RR.8 - 13	Drainage Basins
* RU.1 - 2	Detail Sheets
T Sheets	**Earthwork Quantity Sheets**
* T.1	Earthwork Legend and Symbol Information Sheet
T.2 - 19	Earthwork Quantity Sheets
U Sheets	**500 Series, Mod.Stds. and Detail Sheets**
* U.1	Subdrain Outlet Details
* U.2 - 3	Detour Connection Details
* U.4	Granular Entrance Details
* U.5 - 7	Removal Details
* U.8 - 9	Fencing Details
* U.10 - 11	Clearing and Grubbing Details
* U.12	Modified BR-211
V Sheets	**Bridge and Culvert Situation Plans**
* V.1 - 2	Trenchless Culvert Details
W Sheets	**Mainline Cross Sections**
* W.1	Cross Sections Legend & Symbol Information Sheet
* W.2 - 40	US 30 Eastbound Cross Sections
* W.100 - 114	US 30 Westbound Cross Sections
X Sheets	**Dike Cross Sections**
* X.1 - 5	Dike Site 3 Cross Sections
* X.100 - 109	Dike Site 4 Cross Sections
Y Sheets	**Ramp Cross Sections**
* Y.1 - 8	Duff Ave. Ramp A Cross Sections
* Y.100 - 112	Duff Ave. Ramp D Cross Sections
* Y.200 - 209	Dayton Ave. Ramp B Cross Sections
* Y.300 - 317	Dayton Ave. Ramp C Cross Sections
Z Sheets	**Detour Cross Sections**
* Z.1 - 27	US 30 Detour Cross Sections

* Color Plan Sheets

UTILITY CONTACTS

Iowa DOT (Electrical positions)
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800 Lincoln Way
Ames, IA 50010
515-239-1995
DOT-IOC-Traffic@iowadot.us

Iowa Communications Network (Fiber Optics)
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Des Moines, IA 50319
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icnoutsideplantiowaonecall@iowa.gov

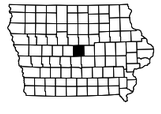
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bbecker@city.ames.ia.us



DESIGN DATA RURAL

2019	AADT	32,000	V.P.D.
2045	AADT	37,040	V.P.D.
20 --	DHV	3,730	V.P.H.
TRUCKS		7	%
Total Design ESALs		–	

INDEX OF SEALS

SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	Chase A. Holien	Primary Signature Block	C.1-C.9
CS.1	Adam Tyler	Geotechnical	C.1-C.9

ROADWAY DESIGN

LICENSED PROFESSIONAL ENGINEER
CHASE A. HOLIEN
21998
IOWA

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.

Digitally signed by Chase Holien
DN: C=US, E=cholien@whks.com, CN=Chase Holien
Date: 2024.09.05 12:33:43-05'00'

Signature Date

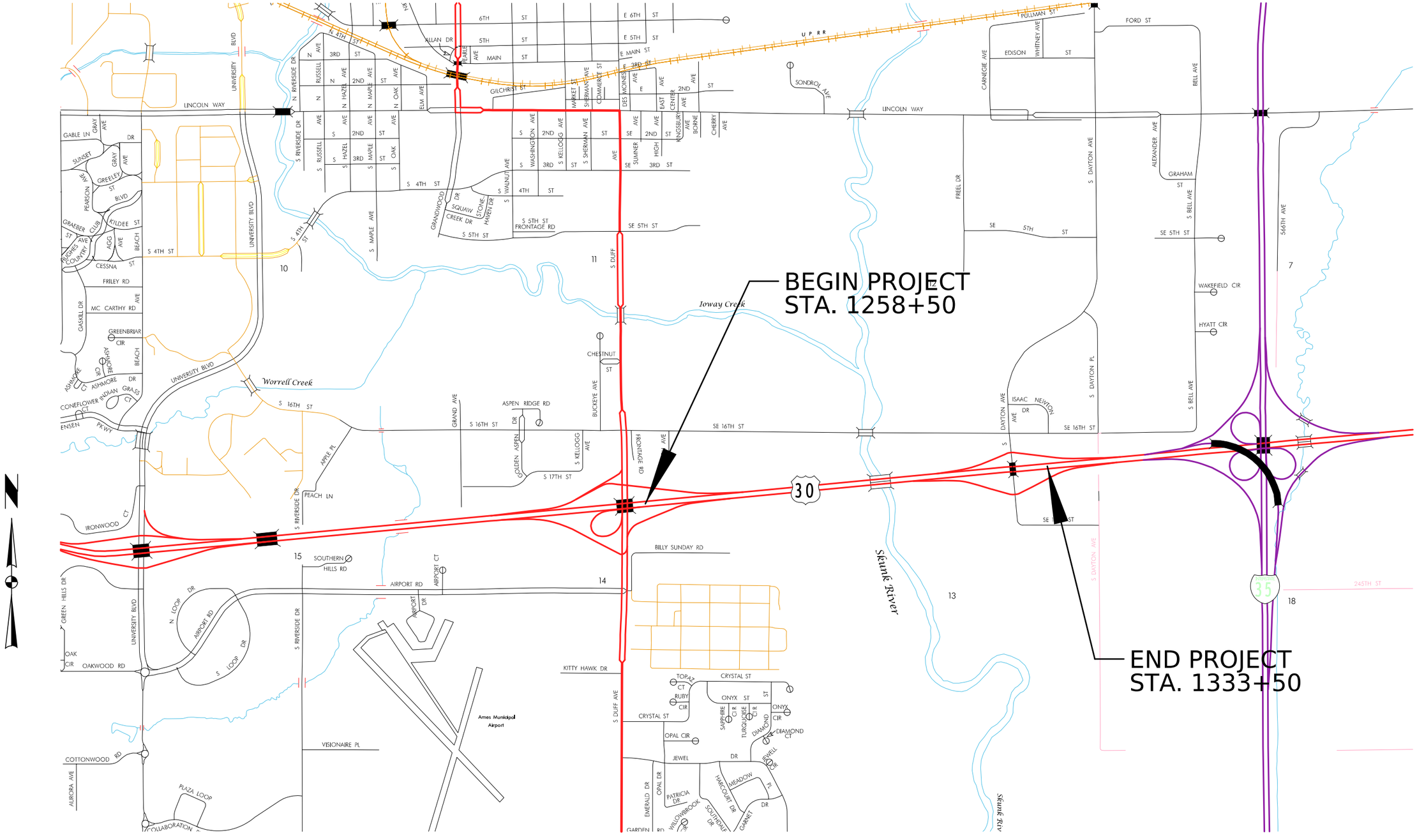
Chase A. Holien
Printed or Typed Name

My license renewal date is December 31, 2025

Pages or sheets covered by this seal: A.1-A.2, B.1-B.6, C.1-C.30, D.1-D.6, E.1-E.2, ED.1-ED.4, F.1-F.3, G.1-G.6, H.1-H.2, J.1-J.32, K.1-K.13, L.1-L.2, RC.1-RC.11, RR.1-RR.13, RU.1-RU.2, T.1-T.19, U.1-U.12, V.1-V.2, W.1-W.40, W.100-W.114, X.1-X.5, X.100-X.109, Y.1-Y.8, Y.100-Y.112, Y.200-Y.209, Y.300-Y.317, Z.1-Z.27

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER A.1

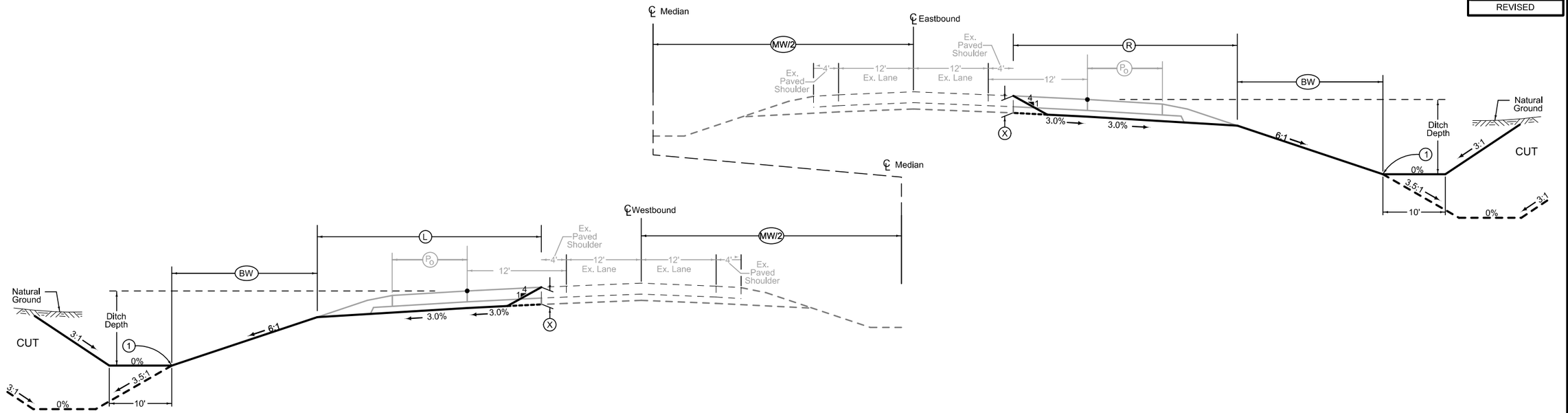
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FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **A.2**

11:02:57 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_A01.dgn

G_6_Grade_Depressed
REVISED



Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

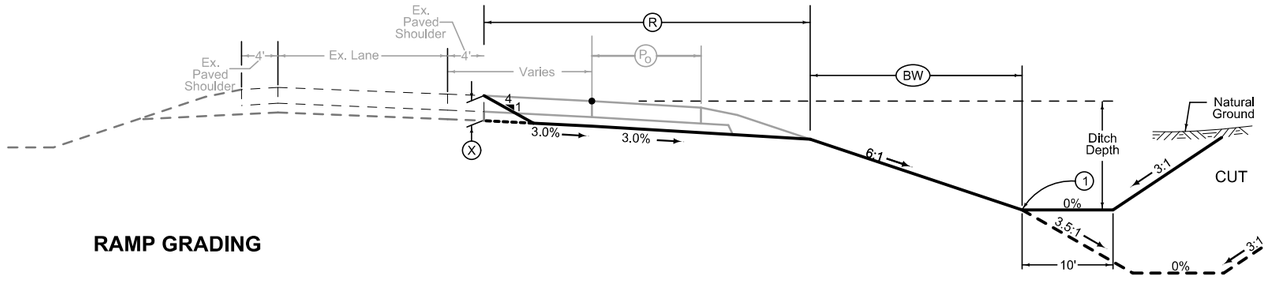
See Plan & Profiles sheets and cross sections for additional details of ditches and backslopes.

(1) Refer to project plan and cross sections for specific location of foreslope change.

LOCATION			DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION		(L)/(R) Feet	(X) Inches	(BW) Feet	(MW) Feet
US 30 EB	1281+31.89	1299+81.05	29	22	13.1	74
US 30 EB	1303+00.00	1305+80.00	29	22	13.1	74
US 30 WB	1279+00.53	1298+34.30	29	22	13.1	74

6 LANE GRADING
(Depressed Median)

G_6_Grade_Depressed
REVISED



Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

See Plan & Profiles sheets and cross sections for additional details of ditches and backslopes.

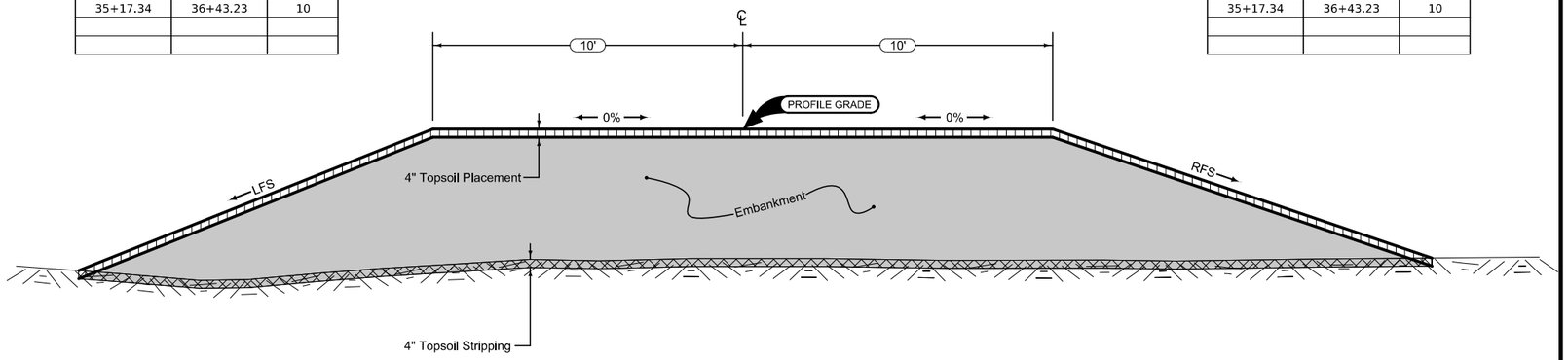
(1) Refer to project plan and cross sections for specific location of foreslope change.

LOCATION			DIMENSIONS		
ROAD IDENTIFICATION	STATION TO STATION		(R) Feet	(X) Inches	(BW) Feet
Duff Ave. Ramp A	5268+00.00	5278+98.15	Varies	22	13.1
Duff Ave. Ramp D	4265+45.96	4281+28.52	Varies	22	13.1
Dayton Ave. Ramp B	2505+83.25	2519+00.00	Varies	22	13.1
Dayton Ave. Ramp C	3503+19.51	3522+67.93	Varies	22	13.1

RAMP GRADING

LFS	
STATION TO STATION	Foreslope (XX:1)
35+17.34 — 36+43.23	10

RFS	
STATION TO STATION	Foreslope (XX:1)
35+17.34 — 36+43.23	10

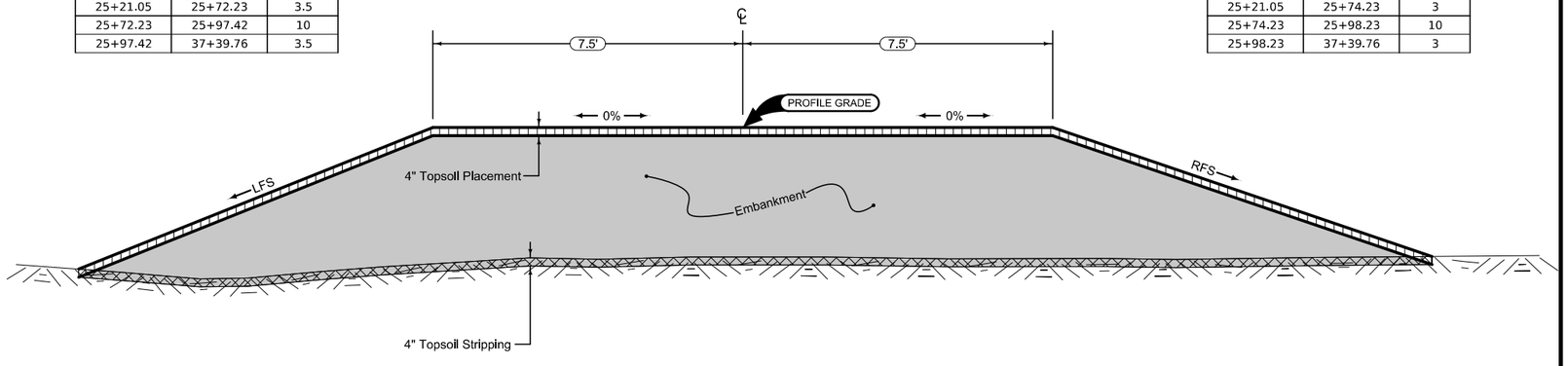


NOTES:
1. Refer to Sheet No. ED.1 for additional details, including Plan and Profile, and drainage pipe details.

Dayton Ave. Ramp C Dike

LFS		
STATION TO STATION		Foreslope (XX:1)
25+21.05	25+72.23	3.5
25+72.23	25+97.42	10
25+97.42	37+39.76	3.5

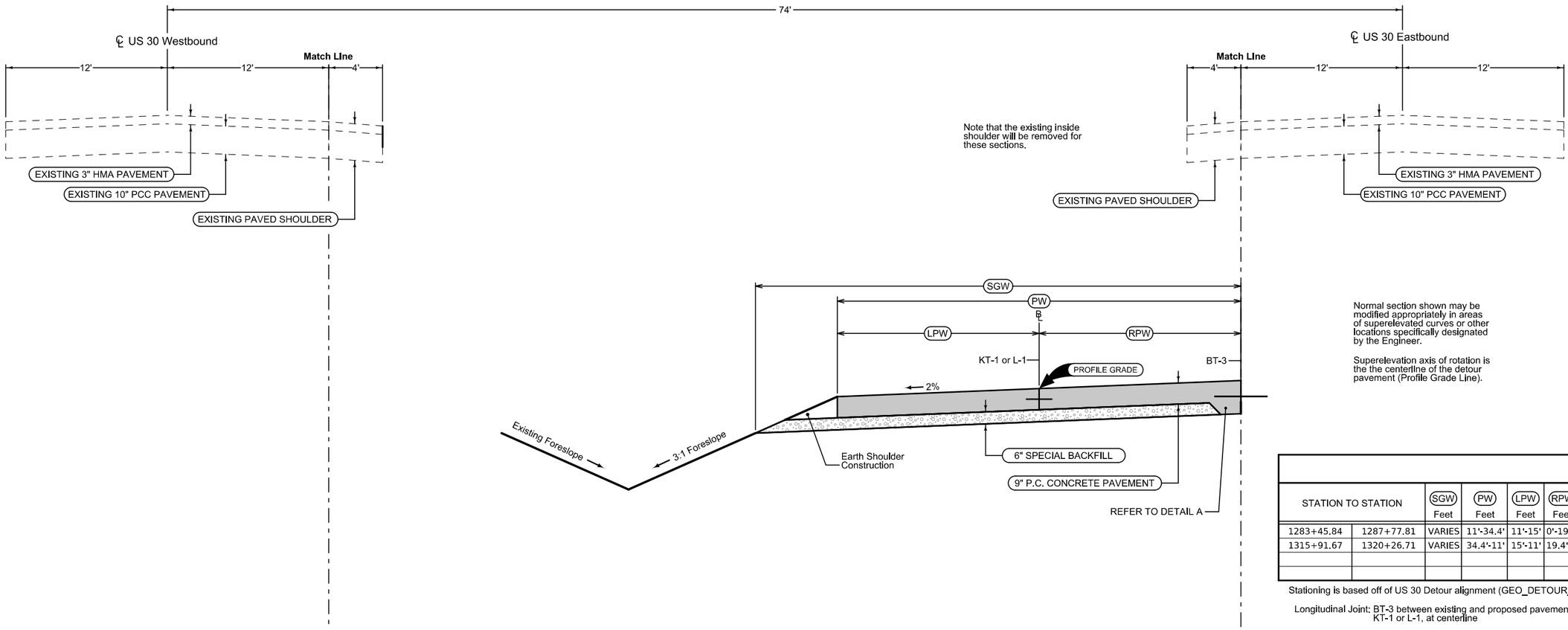
RFS		
STATION TO STATION		Foreslope (XX:1)
25+21.05	25+74.23	3
25+74.23	25+98.23	10
25+98.23	37+39.76	3



NOTES:
1. Refer to Sheet Nos. ED.2 to ED.4 for additional details, including Plan and Profile, and drainage pipe details.

Dayton Ave. Ramp B Dike

D_Detour
MODIFIED



Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

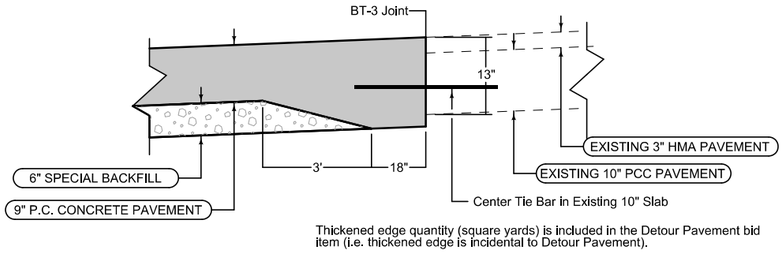
Superelevation axis of rotation is the the centerline of the detour pavement (Profile Grade Line).

STATION TO STATION		SGW Feet	PW Feet	LPW Feet	RPW Feet
1283+45.84	1287+77.81	VARIES	11'-34.4'	11'-15'	0'-19.4'
1315+91.67	1320+26.71	VARIES	34.4'-11'	15'-11'	19.4'-0'

Stationing is based off of US 30 Detour alignment (GEO_DETOUR_EB30)

Longitudinal Joint: BT-3 between existing and proposed pavement
KT-1 or L-1, at centerline

Transverse Joints: C, match mainline joints when adjacent to existing pavement
12' spacing when not adjacent to existing pavement



Thickened edge quantity (square yards) is included in the Detour Pavement bid item (i.e. thickened edge is incidental to Detour Pavement).

Detail A

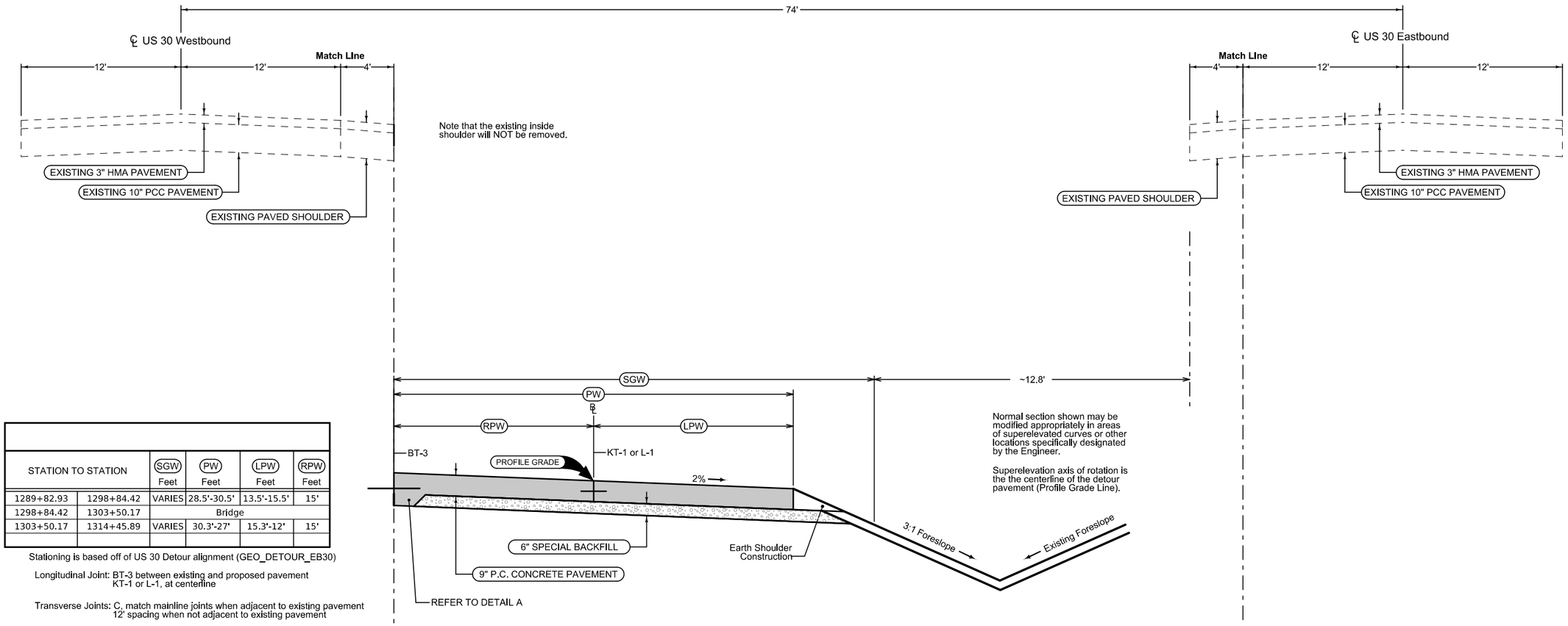
MEDIAN DETOUR PAVEMENT

(At Ties to Ex. US 30 Eastbound)

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **B.3**	

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D_Detour
MODIFIED



Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

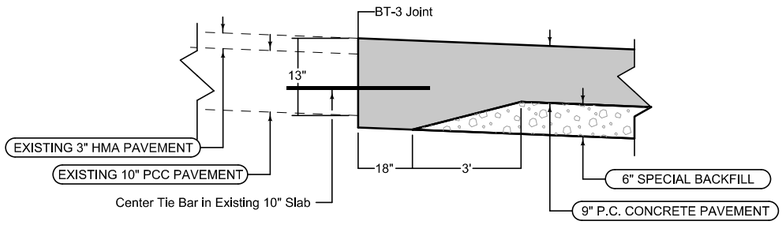
Superelevation axis of rotation is the the centerline of the detour pavement (Profile Grade Line).

STATION TO STATION		SGW Feet	PW Feet	LPW Feet	RPW Feet
1289+82.93	1298+84.42	VARIES	28.5'-30.5'	13.5'-15.5'	15'
1298+84.42	1303+50.17	Bridge			
1303+50.17	1314+45.89	VARIES	30.3'-27'	15.3'-12'	15'

Stationing is based off of US 30 Detour alignment (GEO_DETOUR_EB30)

Longitudinal Joint: BT-3 between existing and proposed pavement
KT-1 or L-1, at centerline

Transverse Joints: C, match mainline joints when adjacent to existing pavement
12' spacing when not adjacent to existing pavement



Thickened edge quantity (square yards) is included in the Detour Pavement bid item (i.e. thickened edge is incidental to Detour Pavement).

Detail A

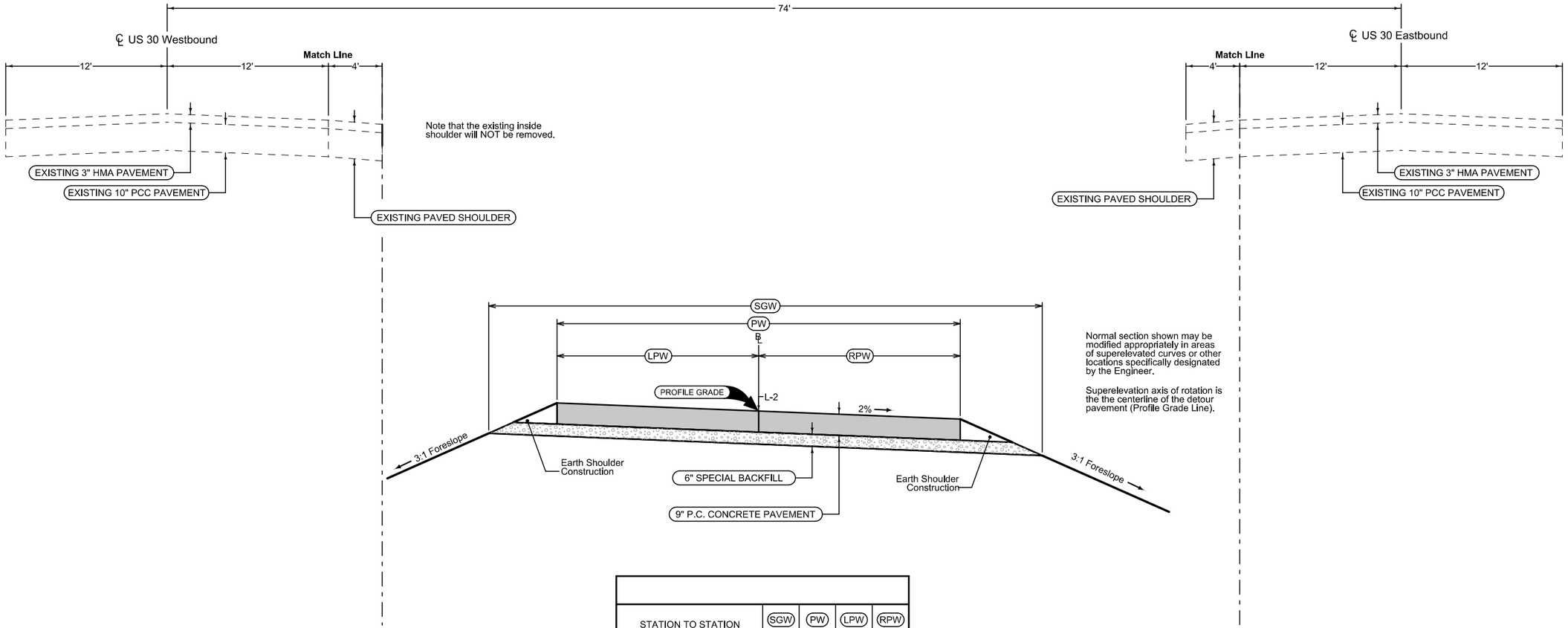
MEDIAN DETOUR PAVEMENT

(Adjacent to Ex. US 30 Westbound)

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **B.4**

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D_Detour
MODIFIED



Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

Superelevation axis of rotation is the the centerline of the detour pavement (Profile Grade Line).

STATION TO STATION		(SGW) Feet	(PW) Feet	(LPW) Feet	(RPW) Feet
1287+77.81	1289+82.93	37.5	30	15	15
1314+45.89	1315+91.67	37.5	30	15	15

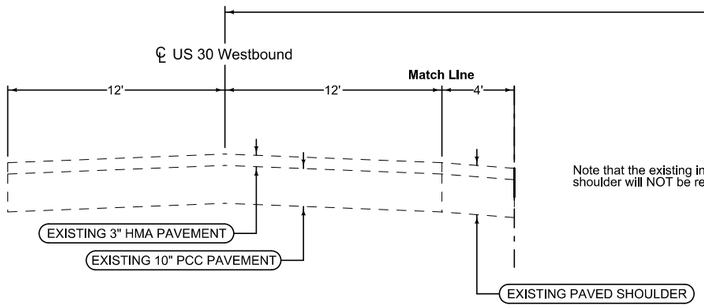
Stationing is based off of US 30 Detour alignment (GEO_DETOUR_EB30)

Longitudinal Joint: KT-1 or L-1, at centerline

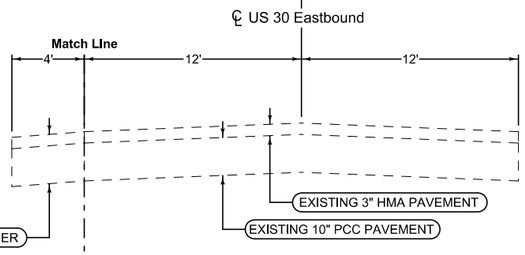
Transverse Joints: C at 12' spacing

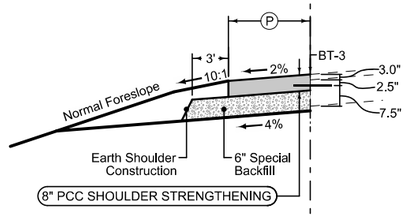
MEDIAN DETOUR PAVEMENT
(Cross-Over Portion)

D_Detour
MODIFIED



Note that the existing inside shoulder will NOT be removed.





Transverse Joints Shall be CD Joints Matching Existing Joints, 12' Maximum Spacing

Place tie bars 2.5" below top of existing concrete pavement

STATION TO STATION		Ⓟ Feet
1259+92.11	1283+45.84	11
1320+24.40	1338+90.00	11

Stationing is based off of US 30 alignment (GEO_US030)

MEDIAN SHOULDER STRENGTHENING

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **B.6**	

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ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Item no.	Item Code	Item	Unit	Quantities Estimated NHSX-030-5(302)--3H-85	Estimate Reference Notes
1	2101-0850001	CLEARING AND GRUBBING	ACRE	2.84	Refer to Sheet Nos. U.10-U.11. All material generated as a result of Clearing and Grubbing shall become the property of the contractor and must be disposed off site. All wood material must be disposed of according to Iowa Department of Agriculture and Land Stewardship Emerald Ash Borer Quarantine Order. For more information see www.iowatreepests.com.
2	2102-0425070	SPECIAL BACKFILL	TON	6,234.29	Item is for EB US 30 Detour Paving, US 30 EB Shoulder Strengthening and recreational trail relocation. Refer to Tab. 100-24 on Sheet No. C.13 and Tab. 112-09 on Sheet No. C.29. Item includes 94.08 Tons for Recreational Trail subbase. Refer to Sheet No. E.2 for additional information. Refer to B Sheets for additional information.
3	2102-2625000	EMBANKMENT-IN-PLACE	CY	28,013	Provide borrow material according to Section 2102 of the Standard Specifications. Refer to Tabulation 107-23 on the T Sheets. Material shall be provided by the Contractor
4	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	15,617	Refer to T Sheets. Overhaul will not be measured or paid for, but shall be considered incidental to excavation on this project.
5	2102-2713090	EXCAVATION, CLASS 13, WASTE	CY	571	Refer to Tab. 112-09 on Sheet No. C.29 for additional information.
6	2105-8425005	TOPSOIL, FURNISH AND SPREAD	CY	3,189	Refer to Tab. 103-10 on Sheet No. CS.1 and the T Sheets.
7	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	13,843	Refer to Tab. 103-10 on Sheet No. CS.1 and the T Sheets. Strip 12 inches of topsoil within the limits of grading. After excavating to the sub grade elevations, spread the stockpiled topsoil to an 8 inch depth across the grading area. Seed the disturbed topsoil stockpile area as per section 2601.05 of the standard specifications. Seeding of the stockpile areas shall be considered incidental to this bid item.
8	2107-0875000	COMPACTION WITH MOISTURE AND DENSITY CONTROL	CY	6,587	Refer to Tab. 103-1 on Sheet No. CS.1 and the T Sheets for additional information. Cubic yards shown on the contract documents as determined by the template fill volume. Shrinkage will not be included in the moisture control quantity.
9	2107-0875100	COMPACTION WITH MOISTURE CONTROL	CY	33,396	Refer to Tab. 103-1 on Sheet No. CS.1 and the T Sheets for additional information. Cubic yards shown on the contract documents as determined by the template fill volume. Shrinkage will not be included in the moisture control quantity.
10	2122-7450080	SHOULDER STRENGTHENING, OPTIONAL HOT MIX ASPHALT MIXTURE OR PORTLAND CEMENT CONCRETE, 8 IN.	SY	5,157	Refer to Tab. 112-09 on Sheet No. C.29 for additional information.

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				NHSX-030-5(302)--3H-85	
11	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	79.24	Item is for earthwork adjacent to the US 30 EB Detour Paving and adjacent to the Shoulder Strengthening. Refer to Tab. 112-09 on Sheet No. C.29 for additional information. Requires a minimum of 8 inches of topsoil. Place according to Article 2105.03,B of the Standard Specifications.
12	2301-0690201	BRIDGE APPROACH, BR-201	SY	465.1	Refer to Tab. 112-06 on Sheet No. C.28 for additional information.
13	2304-0100000	DETOUR PAVEMENT	SY	9,411	Item is for paving the US 30 EB Detour Pavement. Refer to Typicals on B Sheets and Tab. 100-24 on Sheet No. C.13 for additional information. Pavement Material is to be 9" P.C. Concrete Pavement per Article 2304.
14	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	TON	278.32	Item is for surfacing the entrance near Dayton Ave. Ramp B. Refer to Sheet No. U.6 for additional details.
15	2401-6745650	REMOVAL OF EXISTING STRUCTURES	LS	1	Refer to Tab 110-02 on Sheet No. C.25. This item shall consist of removal of existing RCP and plugging the pipe to remain. Measurement: Lump Sum Payment: The Contractor shall be paid the lump sum contract price for all the RCP removed. This payment shall be full compensation for furnishing all material, equipment, and labor for the performance of all work necessary for removal and plugging of the existing RCP's.
16	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	CY	1,045.7	Refer to Tab. 104-3 on Sheet No. C.15 for additional information.
17	2412-0000100	LONGITUDINAL GROOVING IN CONCRETE, BRIDGE DECK	SY	1,316.4	Refer to Tab. 100-28 on Sheet No. C.14 for additional information.
18	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.	EACH	8	Refer to Tab. 104-3 on Sheet No. C.16 for additional information.
19	2416-0100030	APRONS, CONCRETE, 30 IN. DIA.	EACH	5	Refer to Tab. 104-3 on Sheet No. C.15 for additional information.
20	2416-0100036	APRONS, CONCRETE, 36 IN. DIA.	EACH	2	
21	2416-1180024	CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA.	LF	230	
22	2416-1180030	CULVERT, CONCRETE ROADWAY PIPE, 30 IN. DIA.	LF	440	
23	2416-1180036	CULVERT, CONCRETE ROADWAY PIPE, 36 IN. DIA.	LF	56	
24	2416-1240024	CULVERT, 3000D CONCRETE ROADWAY PIPE, 24 IN. DIA.	LF	81	

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				NHSX-030-5(302)--3H-85	
25	2416-1263024	CULVERT, CONCRETE PIPE, 3000D, TRENCHLESS, 24 IN. DIA.	LF	202	Refer to Tab. 104-3 on Sheet No. C.15 and the V Sheets for additional information.
26	2422-0360018	APRONS, UNCLASSIFIED, 18 IN. DIA.	EACH	2	Refer to Tab. 104-3 on Sheet No. C.15 for additional information.
27	2422-1722018	CULVERT, UNCLASSIFIED ENTRANCE PIPE, 18 IN. DIA.	LF	447	
28	2435-0251230	INTAKE, SW-512, 30 IN.	EACH	1	Refer to Tab. 104-05A on Sheet No. C.16 for additional information.
29	2435-0600020	MANHOLE ADJUSTMENT, MAJOR	EACH	3	Refer to Tab. 104-10 on Sheet No. C.18 and the D Sheets for additional information. Manholes will be adjusted to above finished grade, and minor adjusted with a future project. No box-outs are required. New frame, cover, and infiltration barrier shall be furnished and installed.
30	2502-8221305	SUBDRAIN OUTLET, DR-305	EACH	18	Item is for extending existing subdrain outlets. Refer to Tab. 104-9A on Sheet No. C.17 and Sheet No. U.1 for additional information.
31	2503-3775024	GATE, OUTLET CONTROL, FLAP, 24 IN.	EACH	1	Refer to Tab. 104-3 on Sheet No. C.15 for locations and additional information. Furnish and install automatic drainage gates at locations shown in the plans and as specified herein. The drainage gate shall have a frame and cover providing a circular opening of the size indicated. The cover shall be hung with two arms (linkages) located on each side of the cover. The linkage system shall be of the double pivoted type attached to fixed, bronze bushed, pivot points on the cover and frame using stainless steel hinge pins. The linkage system shall be designed to limit the double hinge action to prevent the cover from rotating enough to become wedged in the open position. The drainage gate shall be designed to open and close under a differential head of 0.3 feet maximum. The gate shall be designed to prevent backflow for a minimum 10 feet of hydraulic head above centerline of the gate. The frame and cover material shall be cast iron. The arm (linkage) material shall be cast iron, ductile iron or structural steel. Assembly hardware shall be steel. Cast Iron components shall meet the requirements of ASTM A-126, Class B. Cast iron frame and cover shall be coated with manufacturer's standard shop coat paint. Ductile iron components shall meet the requirements of ASTM A-536, GR. 65-45-12. Structural steel components shall meet the requirements of ASTM A-36, galvanized per ASTM A-123. Steel components shall meet the requirements of ASTM A-307, Galvanized per ASTM A-153. Stainless steel components shall be 18-8 Stainless Steel (Type 304). The gate shall include all anchor devices and assembly hardware as required to install the gate, per manufacturer's recommendations, to the drainage structure type (headwall, concrete pipe, or corrugated metal pipe) as indicated in the plans. Measurement for Gate, Outlet Control, Flap, 24 In., by count, will be the quantity shown in the contract documents. Payment for Gate, Outlet Control, Flap, 24 In. will be at the contract unit price per each.

Item no.	Item Code	Item	Unit	Quantities Estimated NHSX-030-5(302)--3H-85	Estimate Reference Notes
32	2503-3775030	GATE, OUTLET CONTROL, FLAP, 30 IN.	EACH	1	Refer to Tab. 104-3 on Sheet No. C.15 for locations and additional information. Furnish and install automatic drainage gates at locations shown in the plans and as specified herein. The drainage gate shall have a frame and cover providing a circular opening of the size indicated. The cover shall be hung with two arms (linkages) located on each side of the cover. The linkage system shall be of the double pivoted type attached to fixed, bronze bushed, pivot points on the cover and frame using stainless steel hinge pins. The linkage system shall be designed to limit the double hinge action to prevent the cover from rotating enough to become wedged in the open position. The drainage gate shall be designed to open and close under a differential head of 0.3 feet maximum. The gate shall be designed to prevent backflow for a minimum 10 feet of hydraulic head above centerline of the gate. The frame and cover material shall be cast iron. The arm (linkage) material shall be cast iron, ductile iron or structural steel. Assembly hardware shall be steel. Cast Iron components shall meet the requirements of ASTM A-126, Class B. Cast iron frame and cover shall be coated with manufacturer's standard shop coat paint. Ductile iron components shall meet the requirements of ASTM A-536, GR. 65-45-12. Structural steel components shall meet the requirements of ASTM A-36, galvanized per ASTM A-123. Steel components shall meet the requirements of ASTM A-307, Galvanized per ASTM A-153. Stainless steel components shall be 18-8 Stainless Steel (Type 304). The gate shall include all anchor devices and assembly hardware as required to install the gate, per manufacturer's recommendations, to the drainage structure type (headwall, concrete pipe, or corrugated metal pipe) as indicated in the plans. Measurement for Gate, Outlet Control, Flap, 30 In., by count, will be the quantity shown in the contract documents. Payment for Gate, Outlet Control, Flap, 30 In. will be at the contract unit price per each.
33	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	1,019	Refer to Tab. 110-07A on Sheet No. C.26 for additional information.
34	2507-3250005	ENGINEERING FABRIC	SY	457.4	Refer to Tab. 100-23 on Sheet No. RC.7 for additional information. Use material specified for embankment erosion control according to Article 4196.01, B, 3. Material will be measured in sq. yds. of actual area covered. Refer to details.
35	2507-6800061	REVETMENT, CLASS E	TON	234.14	Refer to Tab. 100-23 on Sheet No. RC.7 for additional information. The tabulation includes estimated locations for placement of "Revetment, Class E" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Estimated at 1.6 ton/cu yd. Class E revetment shall meet requirements of Article 4130. Broken Concrete and granite is not allowed.
36	2507-8029000	EROSION STONE	TON	13.23	Refer to Tab. 100-23 on Sheet No. RC.7 for additional information. ---------- The tabulation includes estimated locations for placement of "Erosion Stone" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Estimated at 1.6 ton/cu yd.Erosion Stone shall meet the requirements of Article 4130. Broken Concrete and granite is not allowed.

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				NHSX-030-5(302)--3H-85	
37	2510-6745850	REMOVAL OF PAVEMENT	SY	2,345.2	Refer to Tab. 110-1 on Sheet No. C.24 for additional information.
38	2511-0300000	REMOVAL OF RECREATIONAL TRAIL	SY	217.71	Refer to Sheet No. E.2 for additional information.
39	2511-0302700	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 7 IN.	SY	248.9	
40	2519-1002072	FENCE, CHAIN LINK, 72 IN. HEIGHT	LF	2,044.5	Refer to Tab. 100-07 on Sheet No. C.11 and the U Sheets for additional information.
41	2519-3300700	FENCE, TEMPORARY	LF	327.1	Refer to Tab. 100-07 on Sheet No. C.11 and the U Sheets for additional information. Bid item is for filling gaps in Highway fencing needed to complete construction activities (grading, removals, etc.). Any safety fence installed at locations not called out in the plans for other safety concerns will be considered incidental to Traffic Control. Temporary fence shall be of similar materials to adjacent, permanent fence (chain link). MI-102 includes details of chain link fence construction. Materials from the Removal of Existing Chain Link Fence may be used to construct the temporary fence. Temporary Fence is to be left in place when construction is finished, and becomes the property of the Iowa DOT. Method of Measurement: Measurement for Fence, Temporary will be in linear feet. Basis of Payment: Payment for Fence, Temporary will be at the contract unit price per linear foot.
42	2519-4200020	REMOVAL AND REINSTALLATION OF FENCE, CHAIN LINK	LF	355.8	Refer to Tab. 100-07 on Sheet No. C.11 and the U Sheets for additional information.
43	2519-4200120	REMOVAL OF FENCE, CHAIN LINK	LF	2,349.7	Refer to Tab. 100-08 on Sheet No. C.12 and the U Sheets for additional information.
44	2527-9263181	PAVEMENT MARKINGS REMOVED	STA	82.48	Refer to Tab. 108-22 on Sheet No. C.21 and the J Sheets for additional information.
45	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	98.66	
46	2528-2518000	SAFETY CLOSURE	EACH	2	Refer to Tab. 108-13A on Sheet No. C.20 and the J Sheets for additional information.
47	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	14,512.5	Refer to Tab. 108-33 on Sheet No. C.23. and the J Sheets for additional information. All temporary barrier rail shall be nominal 12'-6 long concrete units.
48	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to the J Sheets for additional information.
49	2533-4980005	MOBILIZATION	LS	1	- -
50	2551-0000130	TEMP CRASH CUSHION, SEVERE USE (SU)	EACH	4	Refer to Tab. 108-30 on Sheet No. C.22 and the J Sheets for additional information.
51	2551-0000230	PERMANENT CRASH CUSHION, SEVERE USE (SU)	EACH	6	

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				NHSX-030-5(302)--3H-85	
52	2599-9999009	('LINEAR FEET' ITEM) TEMPORARY BARRIER RAIL, CONCRETE, LEAVE IN PLACE	LF	3,750	Item is for furnishing and installing Concrete Temporary Barrier Rail that will remain in place after construction. The TBR and all associated hardware, equipment, etc. shall become the property of the Iowa DOT. Refer to Tab. 108-33 on Sheet No. C.23 for additional information. Refer to J Sheets for locations and TBR layouts. All temporary barrier rail shall be nominal 12'-6 long concrete units. Method of Measurement will be in Linear Feet. Basis of Payment for Temporary Barrier Rail, Concrete, Leave in Place will be the contract unit price per Linear Foot. Payment is full compensation for preparing the area and all materials, labor, and equipment required to complete the work.
53	2601-2633100	MOWING	ACRE	23.58	Estimate is based on two mowings of all native grass seeded areas. In areas inaccessible to field equipment, cut with appropriate hand equipment and keep current with the mowing of adjacent areas. Perform mowings when the vegetation is between 12 and 18 inches tall. Mow vegetation to a height between four and eight inches.
54	2601-2634100	MULCHING	ACRE	38.66	Perform mulching according to Article 2601.03, E, 2, of the Standard Specifications. Anchor mulch into the soil using mulch anchoring equipment with a minimum of two passes. Item is included for areas requiring reshaping and seedbed preparation. Use mulch that is Certified Noxious Weed Seed Free Mulch as certified by the Iowa Crop Improvement Association or adjacent states Crop Improvement Associations. Mulch Rate: 1 1/2 tons of dry cereal straw or native grass straw per acre. Mulching shall be applied as described in standard specification section 2601. After seeding, mulch all areas disturbed by grading except where slope protection has been applied.

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				NHSX-030-5(302)--3H-85	
55	2601-2636015	NATIVE GRASS SEEDING	ACRE	11.79	Seed all areas outside eight feet adjacent to outside shoulder along mainline, side roads, and infield areas at interchanges with "Native Grass Seeding". Refer to RU Sheets for additional details. Supply all seed for "Native Grass Seeding". Apply all forb seed through the native grass drill wildflower or small seed box. Do not mix and apply Forb seed with the native grass seed. Apply cover crop through the cool season or through cover crop seed box. Do not mix and apply cover crop seed with the native grass seed. Remove seed remaining in the drill at the end of each day. At the completion of all seeding, remove remaining seed from the drill by vacuum or other means. Hand broadcast remaining seed on the project. The Engineer will review the limits with the Contractor prior to seeding. Seeding and seed bed preparation shall be as described in the Standard Specifications Section 2601 and as shown on the plans. See RR sheets for details. Only source identified seeds from Minnesota, Wisconsin, South Dakota, Nebraska, Missouri, Illinois or Iowa growers and previous year harvest shall be used on this project. Seed mixtures for this mitigation plan are subject to the availability of seeds. Any seed substitutions will need the approval of the Engineer. The Contractor shall flag the seeding limits and obtain the Engineers review of the limits prior to seeding. No fertilizer shall be required for any of the seed mixtures associated with this Mitigation Plan. All seed weights are shown as Pure Live Seed(PLS).
56	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	7.54	Seed and fertilize all areas 8 foot adjacent to the shoulder mainline, medians, and side according to Article 2601.03, C, 3, of the Standard Specifications. Use ground driven equipment. Refer to RR and RU Sheets for additional details.
57	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING	ACRE	19.33	Item is included for all disturbed areas. Seed and fertilize all disturbed areas according to Article 2601.03, C, 1, of the Standard Specifications. Stabilizing crop is to be placed on all disturbed areas as temporary erosion control. Preparation and seeding shall be performed in accordance with Section 2601. Place immediately following completion of finished grading. Reseeding of these areas will be required at contractors expense if damage occurs due to contractors negligence during the contract period. The Section 404 permit requires that all temporary impacted areas must be restored to their pre-construction conditions, contours and elevation. Impacted wetland areas shall be re-seeded with the appropriate wetland mixture to best restore the area to its natural condition.
58	2602-0000020	SILT FENCE	LF	13,754	Refer to Tab. 100-17 on Sheet No. RC.3. The tabulation includes estimated locations for placement of "Silt Fence" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements.

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				NHSX-030-5(302)--3H-85	
59	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	2,756	Refer to Tab 100-18 on Sheet No. RC.4-RC.5. The tabulation includes estimated locations for placement of "Silt Fence for Ditch Checks" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 50% additional quantity for field adjustments and replacements.
60	2602-0000040	SILT DIKES	LF	10,083	Refer to Tab. 100-15 on Sheet No. RC.2 for additional information.
61	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	8,255	This item is included for silt fence and silt fence for ditch check removal required for staging reasons, removal to allow for replacement (replacement to be paid separately), or for areas that have achieved 70% permanent growth. This item is included for silt fence and silt fence for ditch check removal. Remove silt fence and posts after mulching or vegetation is established and approved by the engineer. The bid quantity is 50% of the total quantity of Silt Fence and Silt Fence for Ditch Check.
62	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	1,651	This item is included for clean-out and repair of the silt fence and silt fence for ditch checks during the project. The bid quantity is 10% of the total quantity of Silt Fence and Silt Fence for Ditch Check.
63	2602-0000130	TEMPORARY SEDIMENT CONTROL BASIN	EACH	4	Refer to Tab. 100-33 on Sheet No. RC.8 for additional information.
64	2602-0000135	REMOVAL OF TEMPORARY SEDIMENT CONTROL BASIN	EACH	4	
65	2602-0000140	MAINTENANCE OF TEMPORARY SEDIMENT CONTROL BASIN	EACH	12	
66	2602-0000160	ROCK CHECK DAM	LF	276	Place at locations as directed by the Engineer. Quantity based on 10% of Silt Fence for Ditch Checks. Use Class D Revetment to construct Rock Check Dams.
67	2602-0000170	MAINTENANCE OF ROCK CHECK DAM	EACH	52	Quantity is based on 3 cleanouts of each Rock Check Dam. Each Rock Check Dam is estimated to be 16 feet.
68	2602-0000180	REMOVAL OF ROCK CHECK DAM	EACH	18	Quantity is based on 1 removal of each Rock Check Dam. Each Rock Check Dam is estimated to be 16 feet.
69	2602-0000212	FLOATING SILT CURTAIN (HANGING)	LF	200	Refer to Tab. 100-10 on Sheet No. RC.1 for additional information.
70	2602-0000240	MAINTENANCE OF FLOATING SILT CURTAIN	LF	100	

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				NHSX-030-5(302)--3H-85	
71	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	5,830	Refer to Tab. 100-19 on Sheet No. RC.6 for additional information. The tabulation includes estimated locations for placement of "Perimeter and Slope Sediment Control Device, 12 in. dia." to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements. Use Perimeter and Slope Sediment Control Devices fabricated using wood excelsior.
72	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.	LF	1,250	Refer to Tab. 100-19 on Sheet No. RC.6 for additional information. The tabulation includes estimated locations for placement of "Perimeter and Slope Sediment Control Device, 20 in. dia." to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements. Use Perimeter and Slope Sediment Control Devices fabricated using wood excelsior.
73	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	7,080	Refer to Tab. 100-19 on Sheet No. RC.6 for additional information.
74	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	1	---
75	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1	

100_01D
8/15/22

PROJECT DESCRIPTION

The overall project involves the replacement of the Eastbound (EB) and Westbound (WB) US 30 bridges over the South Skunk River, various hydraulic/drainage improvements to improve the operational Level of Service (LOS) with respect to roadway flooding impacts, and grading widening to construct EB and WB auxiliary lanes between the Duff Avenue (US 69) and Dayton Avenue interchanges.

This project, NHSX-030-5(302)--3H-85, involves the grading and paving of temporary pavement in the median to accommodate the temporary bridge being built (tied to this project). This temporary pavement will carry eastbound traffic when the EB bridge is being built (by others, in 2026). Also included in this project is grading for the widening of eastbound and westbound US 30 and associated ramp work at Duff Ave. and Dayton Ave. The auxiliary lanes will be constructed by others in 2026 and 2027. Also included in the project is the grading of Dikes adjacent to Dayton Ave. Ramps A & B.

FENCING

* Bid Item

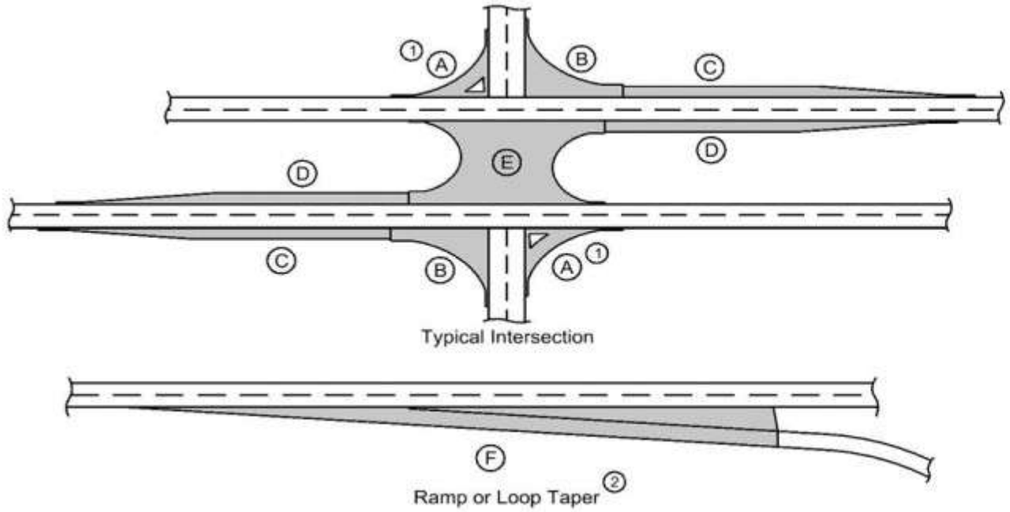
Line No.	Station From	Offset	Station To	Offset	Side	Fence Type	Fence Feature	Height (FT)	Quantity (EA) *	Length (LF) *	Remarks
1.0	1298+82.62	118.0	1299+26.35	62.0	Left	Chain Link	Running Fence	6.0		71.1	Remove and Reinstall
2.0	1302+62.61	56.5	1303+05.10	131.3	Left	Chain Link	Running Fence	6.0		86.0	Remove and Reinstall
3.0	1302+99.10	56.3	1303+04.37	117.2	Right	Chain Link	Running Fence	6.0		61.1	Remove and Reinstall
4.0	1303+04.37	117.2	1303+97.73	115.6	Right	Chain Link	Running Fence	6.0		93.4	Remove and Reinstall
5.0	1303+97.73	115.6	1304+00.42	159.7	Right	Chain Link	Running Fence	6.0		44.2	Remove and Reinstall
6.0	1292+74.20	139.3	1294+00.00	155.0	Right	Chain Link	Running Fence	6.0		126.8	Temporary Fence
7.0	1294+00.00	155.0	1298+71.26	155.0	Right	Chain Link	Running Fence	6.0		471.3	
8.0	1298+71.26	155.0	1299+63.75	162.7	Right	Chain Link	Running Fence	6.0		92.8	
9.0	1299+63.75	162.7	1299+88.50	150.1	Right	Chain Link	Running Fence	6.0		27.8	Temporary Fence
10.0	1299+88.50	150.1	1299+76.11	55.8	Right	Chain Link	Running Fence	6.0		95.1	Temporary Fence
11.0	1306+16.53	113.2	1306+34.71	188.4	Left	Chain Link	Running Fence	6.0		77.4	Temporary Fence
12.0	1306+34.71	188.4	1307+67.89	215.0	Left	Chain Link	Running Fence	6.0		135.8	
13.0	1307+67.89	215.0	1308+89.39	163.4	Left	Chain Link	Running Fence	6.0		132.0	
14.0	1310+48.00	163.9	1311+08.24	165.9	Right	Chain Link	Running Fence	6.0		60.3	
15.0	1311+08.24	165.9	1314+02.85	184.0	Right	Chain Link	Running Fence	6.0		295.2	
16.0	1314+02.85	184.0	1316+92.07	256.2	Right	Chain Link	Running Fence	6.0		299.7	Curved Alignment
17.0	1316+92.07	256.2	1321+99.39	487.1	Right	Chain Link	Running Fence	6.0		557.4	
18.0	+.00	0.0								355.8	Remove and Reinstall Fence Total
19.0	+.00	0.0								327.1	Temporary Fence Total
20.0	+.00	0.0								2044.5	Chain Link Fence Total

REMOVAL OF FENCE

Removal of Field Fence is incidental to Clearing and Grubbing.

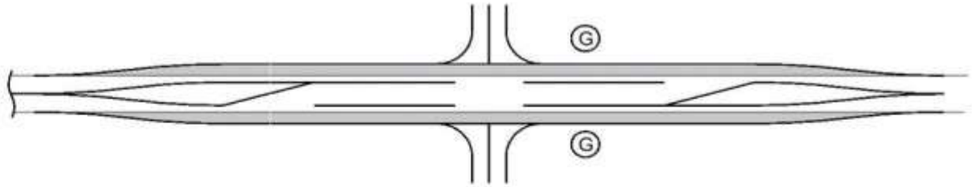
Line No.	Station From	Offset	Station To	Offset	Side	Type	Length (LF)	Remarks
1.0	1292+74.20	139.3	1299+76.11	55.8	Right	Chain Link	786.9	
2.0	1306+16.53	113.2	1308+89.39	163.4	Left	Chain Link	348.4	
3.0	1310+48.00	163.9	1322+03.83	477.3	Right	Chain Link	1214.4	
Total:							**2349.7**	

PCC PAVEMENT

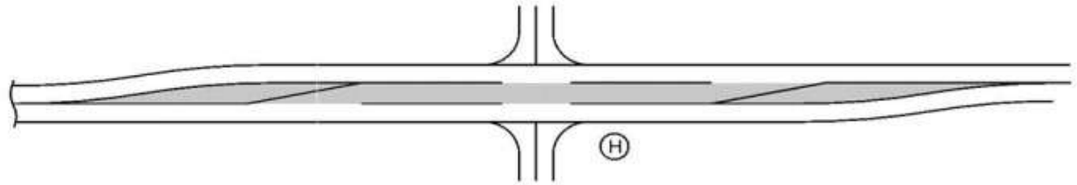


Typical Intersection

Ramp or Loop Taper



Channelized Intersection
Widen Existing Roadway



Channelized Intersection
Reconstructed Roadway

(1) Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
(2) Refer to PV-410, PV-411, PV-412, and PV-414.
(3) Quantity includes Pavement Header.

Line No.	Road Identification	Direction of Travel	Station From	Station To	Width (FT)	Length (FT)	Area (SY)	Area A(1) (SY)(3)	Area B (SY)(3)	Area C (SY)(3)	Area D (SY)(3)	Area E (SY)(3)	Area F(2) (SY)(3)	Area G (SY)(3)	Area H (SY)(3)	Area by Thickness - Thickness(IN)	Area by Thickness - Area (SY)	Polymer Grid (SY)	Special Backfill (TON)	Modified Subbase (CY)	Granular Subbase (SY)	Remarks
1.0	US 30 Detour	EB	1283+45.84	1287+77.81		431.97	935.30									9.0	935.3		298.210			Width Varies
2.0	US 30 Detour	EB	1287+77.81	1289+82.93	30.0	205.12	683.80									9.0	683.8		242.310			
3.0	US 30 Detour	EB	1289+82.93	1298+85.64	30.0	902.71	2884.10									9.0	2884.1		916.170			
4.0	US 30 Detour	EB	1303+51.32	1314+45.89	30.0	1094.57	3474.80									9.0	3474.8		1103.750			
5.0	US 30 Detour	EB	1314+45.89	1315+91.67	30.0	145.78	485.90									9.0	485.9		172.200			
6.0	US 30 Detour	EB	1315+91.67	1320+26.71		435.04	947.10									9.0	947.1		301.950			Width Varies
Total:																	**9411**		**3034.59**			

LONGITUDINAL GROOVING

Line No.	Location	Total (SY)	Remarks
1.0	1299+56.09	224.5	West Approach
2.0	1301+18.21	867.1	Bridge Deck
3.0	1302+80.88	224.8	East Abutment
Total:		**1316.4**	

DRAINAGE STRUCTURE BY ROAD CONTRACTOR

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe.
* Not a bid item
(1) Diameter or equivalent diameter
(2) UNCL = Unclassified Pipe CMP = Corrugated Metal Pipe RCP = Reinforced Concrete Pipe LCP = Arch or Elliptical Low Clearance Pipe SARC = Steel Arch Pipe
(3) Backfill according to DR-101

Location	Type	Size (IN) (1)	Pipe Classification	Kind of Pipe (2)	Length New Const. (LF)	Length of total that is Trenchless	Bedding Class	Design Cover (H) (FT)	Camber* (DR-102) (FT)	Apron No. (IN)	Apron No. (OUT)	Apron Guard* (DR-213) (No.)	Elbow* (DR-141) (No.)	Connected Pipe Joint* (DR-121)	4" Perforated Subdrain* (FT)	Flow Line Elevation LT.	Flow Line Elevation RT.	Flow Line Elevation Other	Dimensions Lineal Feet Total (left)	Dimensions Lineal Feet Total (Right)	Dimensions Lineal Feet Extensions	Dimensions Lineal Feet Extensions	Skew Ahead Degrees (Left)	Skew Ahead Degrees (Right)	Dike Location	Dike Station	Dike Elevation	Dike Type	Class 20 (CY)	Flowable Mortar	Floodable Backfill* (A)	Porous Backfill* (B)	Flooded Backfill(A+B)	Remarks
1268+99.00	DR-621	24.0	2000D	RCP	24.0		C			1	1	2		Type 3		886.67	887.56				22.10	14.10												
1276+69.69	DR-601	24.0	2000D	RCP	91.0	53.0	B	3.00		1	1	2		Type 3		880.25	879.75		38.10	65.10								14.7	11.1	36.8	3.7	40.5	Trenchless = 3000D
1276+88.47	DR-621	36.0	2000D	RCP	56.0		C			1	1	2		Type 3		878.64	879.01				32.00	40.00											
1290+49.00	DR-621	24.0	2000D	RCP	24.0		C				1	1		Type 3			878.60					30.10											
1300+33.42	DR-601	30.0	2000D	RCP	120.0		C			1	1	2		Type 3		872.00	871.70		66.20	66.20													
1300+33.42	DR-601	30.0	2000D	RCP	120.0		C			1	1	2		Type 3		872.00	871.70		66.20	66.20													
1307+70.00	DR-601	30.0	2000D	RCP	200.0		C			1		1	1	Type 3		874.85	875.65	875.04	109.80	96.40					Lt.	1307+70.00	885.50	F						Flap Gate
1311+00.00	DR-601	24.0	2000D	RCP	136.0		C			1		1		Type 3		875.00	875.20		73.70	74.60				93.0	Rt.	1311+49.47	883.50	F						
1316+05.00	DR-621	24.0	2000D	RCP	8.0		C				1	1		Type 3			876.00			14.30													
6327+00.00	DR-601	24.0	3000D	RCP	231.0	149.0	C	11.00		1		1		Type 3		880.58	877.75		117.70	125.30				5.0				1031.0					Flap Gate
1316+31.36	DR-601	18.0		UNCL	447.0		C			1	1					880.53	880.05		236.70	222.00			6.5										
																																	24 in. RCP Apron = 8 Each
																																	30 in. RCP Apron = 5 Each
																																	36 in. RCP Apron = 2 Each
																																	24 in. RCP Roadway Culvert = 230 LF
																																	30 in. RCP Roadway Culvert = 440 LF
																																	36 in. RCP Roadway Culvert = 56 LF
																																	24 in. RCP 3000D Roadway Culvert = 81 LF
																																	24 in. RCP 3000D Trenchless Culvert = 202 LF
																																	18 in. UNCL Apron = 2 Each
																																	18 in. UNCL Entrance Pipe = 447 LF
																																	24 in. Flap Gate = 1 Each
																																	30 in. Flap Gate = 1 Each
Total:																												**1045.7**					

104_05A
8/15/22

INTAKES AND UTILITY ACCESSES

* Not a Bid Item
** For SW-545

Line No.	Location	Type or Standard Road Plan*	Form Grade Elev.	Bottom Well Elev.	Extension Length** (FT)	Remarks
1.0	1290+48.87	SW-512	882.60	879.40		SW-604 Type 4 Grade

LONGITUDINAL SUBDRAIN SHOULDER

* Not a bid item.

Line No.	Road or Lane Identification	Station From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Porous Backfill* (CY)	Remarks
1.0	US 30			Right	42.0	4.0	42.0	1276+96.23	DR-306	5.2	Remove Ex. CMP Section
2.0	US 30			Right	40.0	4.0	40.0	1282+01.42	DR-306	9.9	Remove Ex. CMP Section; Dual Outlet
3.0	US 30			Right	40.0	4.0	40.0	1282+02.02	DR-306		Remove Ex. CMP Section; Dual Outlet
4.0	US 30			Right	48.0	4.0	25.0	1290+41.52	DR-306	3.5	Remove Ex. CMP Section
5.0	US 30			Right	42.0	4.0	19.0	1290+57.75	DR-306	2.3	Remove Ex. CMP Section
6.0	US 30			Right	48.0	4.0	81.0	1293+99.98	DR-306	22.5	Remove Ex. CMP Section; Dual Outlet
7.0	US 30			Right	48.0	4.0	81.0	1294+00.49	DR-306		Remove Ex. CMP Section; Dual Outlet
8.0	US 30			Right	60.0	4.0	50.0	1299+23.07	DR-306	8.5	
9.0	US 30			Right	60.0	4.0	62.0	1308+95.22	DR-306	21.0	Dual Outlet
10.0	US 30			Right	60.0	4.0	62.0	1308+95.86	DR-306		Dual Outlet
11.0	US 30			Right	42.0	4.0	30.0	1315+76.66	DR-306	3.7	Remove Ex. CMP Section
12.0	US 30			Left	24.0	4.0	49.0	1272+96.95	DR-306	3.8	
13.0	US 30			Left	24.0	4.0	19.0	1279+98.97	DR-306	1.5	
14.0	US 30			Left	24.0	4.0	48.0	1283+85.18	DR-306	3.7	
15.0	US 30			Left	24.0	4.0	27.0	1289+02.38	DR-306	2.1	
16.0	US 30			Left	24.0	4.0	65.0	1294+00.67	DR-306	5.0	
17.0	US 30			Left	84.0	4.0	34.5	1299+14.50	DR-306	8.0	
18.0	US 30			Left	24.0	4.0	78.0	1308+02.44	DR-306	6.0	
19.0											All lengths and Porous Backfill Qtys are estimates
20.0											All depths are estimated
21.0											Entries in this Tab. are for subdrain extensions
22.0											Subdrain Extensions will be paid for by Each
23.0											with the Bid Item "Subdrain Outlet, DR-305"
Total:							**852.5**			**106.7**	

ADJUSTMENT OF FIXTURES

Line No.	Item No.	Location Station	Side	Distance	Type of Fixture	Adjustment
1.0		1268+49.11	Right	135.37	Sanitary Sewer Manhole	Major Adjustment, Adjust up approximately 4.32'
2.0		1272+44.78	Right	84.91	Sanitary Sewer Manhole	Major Adjustment, Adjust up approximately 1.86'
3.0		1276+47.57	Right	71.35	Sanitary Sewer Manhole	Major Adjustment, Adjust up approximately 1.28'

STANDARDS

The following Standards apply to construction work on this project.

Number	Date	Title
BA-401	4/20/2021	Temporary Barrier Rail (Precast Concrete)
BA-500	4/20/2021	Temporary Crash Cushions Sand Barrel
BR-201	10/15/2024	Double Reinforced 10 inch Approach
BR-211	10-18-22	Bridge Approach (Abutting PCC or Composite Pavement)
DR-101	4/18/2017	Pipe Culvert (Bedding and Backfill)
DR-102	4/21/2015	Pipe Culvert (Cover and Camber)
DR-103	4/21/2015	Pipe Culvert (Installation Details)
DR-121	4/18/2023	Connected Pipe Joints
DR-122	10/18/2016	Construction of Type 'C' Concrete Adaptors for Pipe Culvert Connections
DR-201	10/17/2023	Concrete Aprons
DR-213	10/18/2022	Pipe Apron Guard
DR-303	10/17/2017	Subdrains (Longitudinal)
DR-306	10/17/2023	Precast Concrete Headwall for Subdrain Outlets
DR-504	4/21/2020	Diagonal Placed Drain for Median Crossovers
DR-601	4/18/2017	Reinforced Concrete Pipe Culvert
DR-613	4/17/2018	Concrete Pipe with 'D' Section
DR-621	4/18/2017	Pipe Extension
DR-651	4/18/2017	Unclassified Pipe Culvert
EC-201	4/20/2021	Silt Fence
EC-202	10/21/2014	Floating Silt Curtain
EC-301	10/18/2022	Rock Erosion Control (REC)
EC-302	10/18/2022	Rock Check Dam
EC-303	10/19/2021	Stabilized Construction Entrance
EC-601	10/16/2018	Temporary Sediment Control Basin
EW-101	10/17/2017	Embankment and Rebuilding Embankments
EW-401	10/20/2015	"Temporary Stream Crossing
EW-403	4/18/2017	Temporary Erosion Control Measures
MI-101	10/20/2015	Fencing Layout
MI-102	10/20/2015	Chain Link Fence Construction
PM-110	10/15/2024	Line Types
PV-101	4/19/2022	Joints
PV-102	04-21-20	PCC Curb Details
PV-121	4/21/2015	Jointing PCC Pavement Widening
PV-301	4/21/2020	Superelevation Details Two Lane Roadway
SW-512	4/21/2020	Circular Area Intake
SW-604	4/21/2020	Castings for Area Intakes
TC-1	10/15/2019	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-202	4/18/2023	Work Within 15 ft of Traveled Way
TC-402	4/18/2023	Work Within 15 ft of Traveled Way
TC-416	10/15/2019	Partial Lane Closure on Ramps
TC-418	4/18/2023	Lane Closure on Divided Highway
TC-433	10/17/2017	Pavement Marking Operations

108_13A
10/4/23

SAFETY CLOSURES

Refer to Section 2518 of the Standard Specifications

Station	Road Closure Qty.	Hazard Closure Qty.	Remarks
1299+25.00	1		
1303+00.00	1		
Total:	**2**		

PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17 | BCY6: Broken Centerline (Yellow) @ 0.25 | BLC6: Broken Line Contrast (White/Black) @ 0.50 | BLW4: Broken Lane Line (White) @ 0.17 | BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00 | CHW8: Channelizing Line (White) @ 1.33 | CHW10: Channelizing Line (White) @ 1.67 | CHY8: Channelizing Line (Yellow) @ 1.33 | CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00 | DCY4: Double Centerline (Yellow) @ 1.34 | DCY6: Double Centerline (Yellow) @ 2.00 | DDY4: Double Dotted Line (Yellow) @ 0.44 | DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22 | DLW6: Dotted Line (White) @ 0.33 | DLY4: Dotted Line (Yellow) @ 0.22 | DLY6: Dotted Line (Yellow) @ 0.33 | ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00 | ELY4: Edge Line Left (Yellow) @ 0.67 | ELY6: Edge Line Left (Yellow) @ 1.00 | LDW8: Lane Drop (White) @ 0.33 | LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00 | NPY4: No Passing Zone Line (Yellow) @ 0.84 | NPY6: No Passing Zone Line (Yellow) @ 1.25 | RLW4: Ramp Edge Line Right (White) @ 0.67 | RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67 | RLY6: Ramp Edge Line Left (Yellow) @ 1.00 | SLW2: Stop Line (White) @ 4.00 | SLW4: Solid Lane Line (White) @ 0.67 | SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16 | SPW6: Sloped Curb 6" (White) @ 2.28 | SPY4: Sloped Curb 4" (Yellow) @ 2.16 | SPY6: Sloped Curb 6" (Yellow) @ 2.28

Line No.	Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BCY4* Factored (STA)	BLW4 Factored (STA)	BLW6 Factored (STA)	DCY4 Factored (STA)	ELY4 Factored (STA)	ELY6 Factored (STA)	Remarks
1.0	US 30 WB	1282+41.08	1321+87.23	Center	Removal of Paint		X		No			6.71					Stage 1
2.0	US 30 WB	1282+41.08	1321+87.23	Left	Removal of Paint	X			No						26.44		Stage 1
3.0	US 30 WB	1282+41.08	1321+87.23	Center	Waterborne/Solvent Paint		X		No				9.87				Stage 1
4.0	US 30 WB	1282+41.08	1321+87.23	Left	Waterborne/Solvent Paint	X			No							39.46	Stage 1
5.0	US 30 WB	1282+41.08	1321+87.23	Center	Removal of Paint		X		No				9.87				Winter Stage
6.0	US 30 WB	1282+41.08	1321+87.23	Left	Removal of Paint	X			No							39.46	Winter Stage
7.0	US 30 WB	1282+41.08	1321+87.23	Center	Waterborne/Solvent Paint		X		No				9.87				Winter Stage
8.0	US 30 WB	1282+41.08	1321+87.23	Left	Waterborne/Solvent Paint	X			No							39.46	Winter Stage
9.0																	Remove Total = 82.48 Sta
10.0																	Waterborne Total = 98.66 Sta

CRASH CUSHIONS

* Bid Item
1. Lane(s) to which the installation is adjacent.
2. Complete this section when using the Temporary Crash Cushion bid item and Earthwork is needed for Sand Barrel placement. Refer to BA-500.

Line No.	Lane	Station	Side	Obstacle Width (FT)	Crash Cushion Type	Crash Cushion Quantity	V (FT) (2)	W (FT) (2)	X (FT) (2)	Y (FT) (2)	Z (FT) (2)	Excavation Class 10* (CY)	Embankment in Place* (CY)	Obstacle Description	Remarks
1.0	EB	1296+57.97	Median	2.0	Temporary Severe Use	1								Temporary Barrier Rail	
2.0	WB	1317+56.97	Median	2.0	Temporary Severe Use	1								Temporary Barrier Rail	
3.0	EB	1276+19.69	Median	2.0	Temporary Severe Use	1								Temporary Barrier Rail	Boring PIt Protection
4.0	WB	1277+19.69	Median	2.0	Temporary Severe Use	1								Temporary Barrier Rail	Boring Pit Protection
5.0	EB	1262+98.57	Right	2.0	Permanent Severe Use	1								Temporary Barrier Rail	
6.0	EB	1296+58.95	Right	2.0	Permanent Severe Use	1								Temporary Barrier Rail	EB Detour Pavement
7.0	EB	1285+51.77	Median	2.0	Permanent Severe Use	1								Temporary Barrier Rail	
8.0	EB	1288+59.29	Median	2.0	Permanent Severe Use	1								Temporary Barrier Rail	
9.0	EB	1315+09.48	Median	2.0	Permanent Severe Use	1								Temporary Barrier Rail	
10.0	EB	131+16.99	Median	2.0	Permanent Severe Use	1								Temporary Barrier Rail	
Total:						**10**									

TEMPORARY BARRIER RAIL

Possible Standard: BA-401 Possible Detail: 560-7

* Not a bid item. Anchorage requirements are based on TBR locations shown in the plans. TBR alignments that vary from what is shown in the plans may result in additional TBR sections requiring anchorage.

Line No.	No.	Station From	Station To	Length (FT)	Barrier Rail Type	Anchored*	Modular Glare Screen System	Remarks
1.0	Stage 1	1286+46.49	1317+56.97	3112.5	Concrete BA-401	Yes		Only anchor sections on existing WB Bridge
2.0	Stage 1	1296+57.97	1299+65.07	312.5	Concrete BA-401	No		
3.0	Stage 3	1262+98.57	1297+80.04	3512.5	Concrete BA-401	No		Along Duff Ave Ramp D and US 30 EB
4.0	Stage 3	1267+85.18	1299+37.51	3162.5	Concrete BA-401	No		Along Duff Ave Ramp A and US 30 WB
5.0	Stage 3	1303+00.22	1318+95.42	1637.5	Concrete BA-401	No		Along US 30 EB and Dayton Ave Ramp B
6.0	Stage 3	1304+58.27	1323+20.74	1912.5	Concrete BA-401	No		Along US 30 WB and Dayton Ave Ramp C
7.0	Stage 3	1276+19.69	1277+19.69	100.0	Concrete BA-401	Yes		EB Median Boring Pit Protection
8.0	Stage 3	1276+19.69	1277+19.69	100.0	Concrete BA-401	Yes		WB Median Boring Pit Protection
9.0	Winter Stage	1296+58.95	1303+11.75	662.5	Concrete BA-401	Yes		Median Side of detour pavement and temp bridge
10.0								
11.0	Winter Stage	1285+51.77	1288+59.29	300.0	Concrete BA-401	Yes		To become property of DOT
12.0	Winter Stage	1296+57.97	1299+65.07	312.5	Concrete BA-401	No		To become property of DOT
13.0	Winter Stage	1296+58.95	1303+11.75	662.5	Concrete BA-401	No		To become property of DOT
14.0	Winter Stage	1315+09.48	1318+16.99	300.0	Concrete BA-401	Yes		To become property of DOT
15.0								TBR, Concrete = 14,512.5
16.0								TBR, Leave in Place = 1575 LF
Total:				**16087.5**				

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5.

* Not a bid item.

Line No.	Station From	Station To	Side	Pavement Type	Area (SY)	Saw Cut* (LF)	Remarks
1.0	1259+92.11	1287+78.22	Right	HMA/PCC	1260.7	2786.1	EB Inside Shoulder
2.0	1315+88.96	1338+90.00	Right	HMA/PCC	1084.5	2301.0	EB Inside Shoulder
Total:					**2345.2**	**5087.1**	

110_02
8/15/22

REMOVAL OF EXISTING STRUCTURES

Line No.	Location	Description	Remarks
1.0	1276+76.00, 7' LT	Removal of Existing 18"x10' RCP	Plug hole in 36" Pipe, Incidental to Pipe Removal
2.0	1276+91, 0.5' LT	Removal of Existing 18"x3' RCP	Plug hole in 36" Pipe, Incidental to Pipe Removal

110_07A
8/15/22

REMOVAL OF STEEL BEAM GUARDRAIL

(1) Lane(s) to which the installation is adjacent.
(2) Includes length of End Terminals and End Anchors.

Line No.	No.	Direction of Traffic (1)	Station From	Station To	Side	Removal of Guardrail (2) (LF)
1.0	1	EB	1296+92.77	1299+69.51	Left	273.1
2.0	2	WB	1297+11.44	1299+51.66	Left	236.4
3.0	3	WB	1302+71.10	1305+47.67	Left	272.9
4.0	4	EB	1302+86.50	1305+27.07	Left	236.6
Total:						**1019**

INDEX OF TABULATIONS

Line No.	Tabulation	Tabulation Title	Sheet No.
1.0	100_01A	ESTIMATED PROJECT QUANTITIES	C.1-9
2.0	100_01D	PROJECT DESCRIPTION	C.10
3.0	100_07	FENCING	C.11
4.0	100_08	REMOVAL OF FENCE	C.12
5.0	100_24	PCC PAVEMENT	C.13
6.0	100_28	LONGITUDINAL GROOVING	C.14
7.0	104_03	DRAINAGE STRUCTURE BY ROAD CONTRACTOR	C.15
8.0	104_05A	INTAKES AND UTILITY ACCESSES	C.16
9.0	104_09A	LONGITUDINAL SUBDRAIN SHOULDER	C.17
10.0	104_10	ADJUSTMENT OF FIXTURES	C.18
11.0	105_04	STANDARD ROAD PLANS	C.19
12.0	108_13A	SAFETY CLOSURES	C.20
13.0	108_22	PAVEMENT MARKING LINE TYPES	C.21
14.0	108_30	CRASH CUSHIONS	C.22
15.0	108_33	TEMPORARY BARRIER RAIL	C.23
16.0	110_01	REMOVAL OF PAVEMENT	C.24
17.0	110_02	REMOVAL OF EXISTING STRUCTURES	C.25
18.0	110_07A	REMOVAL OF STEEL BEAM GUARDRAIL	C.26
19.0	112_06	BRIDGE APPROACH SECTION	C.28
20.0	112_09	SHOULDERS	C.29
21.0	103_07	SHRINKAGE DATA	CS.1
22.0	103_01	EMBANKMENT WITH MOISTURE AND DENSITY CONTROL	CS.1
23.0	103_10	TOPSOIL STRIPPING AND PLACEMENT	CS.1
24.0	101_16	ALIGNMENT COORDINATES	G.4
25.0	101_17	SPIRAL OR CIRCULAR CURVE DATA	G.5
26.0	101_18	SUPERELEVATION DATA	G.6
27.0	108_23A	TRAFFIC CONTROL PLAN	J.1
28.0	108_23B	TRAFFIC CONTROL CLOSURE TABLE(S)	J.2
29.0	108_25	511 TRAVEL RESTRICTIONS	J.3
30.0	108_26A	STAGING NOTES	J.4
31.0	111_01	COORDINATED OPERATIONS	J.5
32.0	100_10	FLOATING SILT CURTAINS	RC.1
33.0	100_15	SILT DIKES	RC.2
34.0	100_17	TABULATION OF SILT FENCES	RC.3
35.0	100_18	SILT FENCES FOR DITCH CHECKS	RC.4-5
36.0	100_19	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	RC.6
37.0	100_23	ROCK EROSION CONTROL	RC.7
38.0	100_33	TEMPORARY SEDIMENT CONTROL BASIN	RC.8
39.0	100_34	STORMWATER DRAINAGE BASIN	RC.9
40.0	110_12	POLLUTION PREVENTION PLAN	RC.10

BRIDGE APPROACH SECTION

Refer to the BR Series.

* Not a bid item

Line No.	Bridge Station	End	Skew Ahead Left (Degrees)	Skew Ahead Right (Degrees)	(T) Thickness (IN)	Pay Length (FT)	Non-Reinf. Area (SY)	Single-Reinf. Area (SY)	Double-Reinf. Area (SY)	SRP Approach	SRP Abutment Type	SRP Abutting Pavement	Perforated * 4" Subdrain (LF)	Subdrain * Outlet (STA)	Subdrain * Outlet Side	Porous * Backfill (CY)	Class 'A' * Crushed Stone Backfill (CY)	Modified * Subbase (TON)	Polymer * Grid (SY)	Special * Backfill (TON)	Remarks
1.0	1299+56.10	W		20.0	10.0	70.5	97.1	66.5	68.8	BR-201	Movable	BR-211						238.460	263.6		
2.0	1302+80.88	E		20.0	10.0	70.5	97.4	66.8	68.5	BR-201	Movable	BR-211						238.660	264.0		
3.0																					Total Bridge Approach Pavement = 465.1 SY
Total:							**194.5**	**133.3**	**137.3**									**477.12**	**527.6**		

SHOULDERS

(1) Lane(s) to which the shoulder is adjacent.
(2) See Typ. 7156, 7157, or 7158.
(3) Bid Item.
(4) Applies only for Paved Shoulders constructed on project with existing granular shoulders.
(5) Bid Item. Typ. 7156, 7157, or 7158.
(6) Does not include shrink.
(7) Paved shoulder thickness specified in Remarks.
(8) Subbase type specified in Remarks.

Roadway Identification	Direction of Travel (1)	Station From	Station To	Side	P Width (FT)	P SG Width (2) (FT)	G Width (FT)	L Length (FT)	Class 13 Excavation (CY)(3)(4)	HMA (TON)	HMA (TON/ STA)	Binder (TONS)	Paved Shoulder (3) (SY)	Shoulder at Grdrail (5)(7)	Reinforced Paved Shoulder(3) (SY)	Special Backfill PCC Alt. (3) (TON)	Special Backfill PCC Alt. (TON/STA)	Granular Shoulder (3) (TON)	Granular Shoulder (TON/STA)	Shoulder Const. Alt (3) (STA)	Shoulder Const. Alt HMA (6) (CY)	Shoulder Const. Alt PCC (6) (CY)	Remarks
US 30	EB	1259+92.11	1283+45.85	Left	11			2353.74	261.5				2876.8			1732.450	73.600			23.54			Shoulder Strengthening
US 30	EB	1283+45.85	1288+06.17	Left				460.32	51.1														For Detour Pavement Construction
US 30	EB	1315+64.33	1320+24.39	Left				460.06	51.1														For Detour Pavement Construction
US 30	EB	1320+24.39	1338+90.00	Left	11			1865.61	207.3				2280.2			1373.170	73.604			18.66			Shoulder Strengthening
US 30 Detour	EB	1283+45.84	1289+82.93	Left				637.09												6.37			Shoulder Qty included in Paving Qty.
US 30 Detour	EB	1287+77.81	1299+61.56	Right				1183.75												11.83			Shoulder Qty included in Paving Qty.
US 30 Detour	EB	1302+86.32	1315+91.67	Right				1305.35												13.04			Shoulder Qty included in Paving Qty.
US 30 Detour	EB	1314+45.89	1320+26.71	Left				580.82												5.80			Shoulder Qty included in Paving Qty.
Total:									**571**				**5157**			**3105.62**				**79.24**			

281_01
9/28/22

SECTION 404 PERMIT AND CONDITIONS

Construct this project according to the requirements of U.S. Army Corps of Engineers Nationwide, Permit No. #14. A copy of this permit is available from the Iowa DOT website (http://www.envpermits.iowadot.gov/). The U.S. Army Corps of Engineers reserves the right to visit the site without prior notice.

103-6
10-17-17

EMBANKMENT WITH MOISTURE CONTROL

Moisture Control is required for all Class 10 fill placed in all locations and depths.

103-7
08-01-08

SHRINKAGE DATA

Material	%	Remarks
Topsoil	40%	Shrinkage
Class 10	30%	Shrinkage
Select Loam (Clay)	20%	Shrinkage
Select Sand	15%	Shrinkage
Unsuitable Type B	35%	Shrinkage
Unsuitable Type C	35%	Shrinkage

103-10
04-18-17

TOPSOIL STRIPPING AND PLACEMENT

Location				Topsoil Stripping Thickness	Topsoil Placement Thickness	Remarks
Road Identification	Dir. of Traffic	Begin Station	End Station	IN	IN	
US 30 Median Detour	--	1299+69.50	1300+50.00	12.0	8.0	West Abutment Berm Grading
US 30 Median Detour	--	1302+15.00	1302+88.50	12.0	8.0	East Abutment Berm Grading

LICENSED PROFESSIONAL ENGINEER
ADAM D. TYLER P26052
IOWA

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 8/1/2024 Date

Adam Tyler
Printed or Typed Name

My license renewal date is December 31, 20 25

Pages or sheets covered by this seal: CS.1

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link or Security Fence
- Wire Fence
- Terrace
- Earth Dam or Dike (Existing)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Existing Utility Access (Manhole)
- Fire Hydrant
- WH Water Hydrant (Rural)
- Septic Tank
- C Cistern
- LP L.P. Gas Tank (No Footing)
- UST Underground Storage Tank
- Latrine
- Satellite TV Dish
- WHU Water Hook Up
- RT Radio Tower
- TA Tower Anchor
- Guardrail (Beam or Cable)
- GP Guard Post (one or two)
- Guard Post (over two)
- FP Filler Pipe
- GV Gas Valve
- WV Water Valve
- SL Speed Limit Sign
- MM Mile Marker Post
- SIGN Sign
- TCB Traffic Signal Control Box
- RRB Rail Road Signal Control Box
- TSB Telephone Switch Box
- EB Electric Box

UTILITY LEGEND

- E1 — EL1D, Electric Line Iowa DOT - Quality D
- E2 — EL2D, Electric Line City of Ames - Quality D (Located by owner maps)
- FO — FO1D, Fiber Optic Iowa Communications Network - Quality D (Flagged and owner maps)
- FO3 — FO3D, Fiber Optic Lumen - Quality D (Located by owner maps)
- SAN.(C) — SA1C, Sanitary Sewer City of Ames- Quality C
- ST S(C) — ST1C, Storm Sewer City of Ames - Quality C
- W(C) — WL1C, City of Ames - Quality C

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
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.**	
Lavender	(9)	Temporary Pavement Shading
Lavender, Dark	(73)	Proposed Shoulder Strengthening
Yellow	(4)	Proposed Pavement Shading
Orange	(6)	Proposed Granular Shading
Orange	(70)	Proposed Shoulder Granular Shading
Yellow	(68)	Proposed Shoulder Paved Full Depth Shading
Yellow	(132)	Proposed Shoulder Paved Partial Depth Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Orange, Light	(134)	Proposed Granular Entrance Shading
Yellow	(220)	Proposed Paved Entrance Shading
Green, Light	(225)	Existing Pavement Shading
Red	(3)	Proposed Structure Shading
Curry	(234)	Existing Structure Shading
Red	(3)	Delineates Restricted Areas

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(10)	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 — Survey Line
- Station — Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension 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
- C/A Access Control
- Property Line

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **D.1**

10:49:37 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\LEGEND_SHEETS.dgn

WASHINGTON TWP.
T-83N R-24W
SEC. 14

1260+00

1265+00

1270+00

STA. 1263+26.72
BEGIN GRADING

STA. 1259+92.10
BEGIN CONSTRUCTION

DUFF AVE. RAMP A

DUFF AVE. RAMP D

E1

F03

Do Not Disturb Light Pole or Foundation
Sta 1268+57.65, 174.24' Lt

(U.A.C.)
(EXTEND 16.0' Lt.)
(EXTEND 8.0' Rt.)
Sta. 1268+99, 113' LT
24"x50' RCP
F.L. = Lt. 886.67
Rt. 887.56

Limits of Construction

Do Not Disturb Light
Pole or Foundation
Sta 1270+54.37, 134.27' Lt

Do Not Disturb Light Pole or Foundation
Sta 1272+48.17, 101.74' Lt

30

(U.A.C.)
Sta. 1269+00, 14' LT
24"x70' RCP

Sanitary Sewer Manhole
Major Adjustment
Sta 1272+44.78, 84.91' Rt
Adjust Up Approx. 1.86'

SAN.(C)

Existing ROW

Sanitary Sewer Manhole
Major Adjustment
Sta 1268+49.11, 135.37' Rt
Adjust Up Approx. 4.32'

Limits of Construction

For Temporary Pavement Details
Refer to E Sheets

0 FEET 50

US HWY 30

915
910
905
900
895
890
885
880

Existing Median Profile

As-Built Profile Grade Line

920.65 920.53 920.38 920.21 920.02 919.80 919.56 919.30 919.01 918.70 918.37 918.01 917.63 917.23 916.80 916.35 915.88 915.38 914.86 914.31 913.74 913.15 912.53 911.90 911.23 910.55 909.84 909.11 908.36 907.62 906.87 906.13 905.38 904.64 903.89 903.15 902.41 901.66 900.92 900.17 899.43 898.68 897.94 897.19 896.45 895.70 894.96 894.22 893.47 892.73 891.98 891.26 890.58 889.94 889.33 888.76 888.23 887.73 887.28 886.86

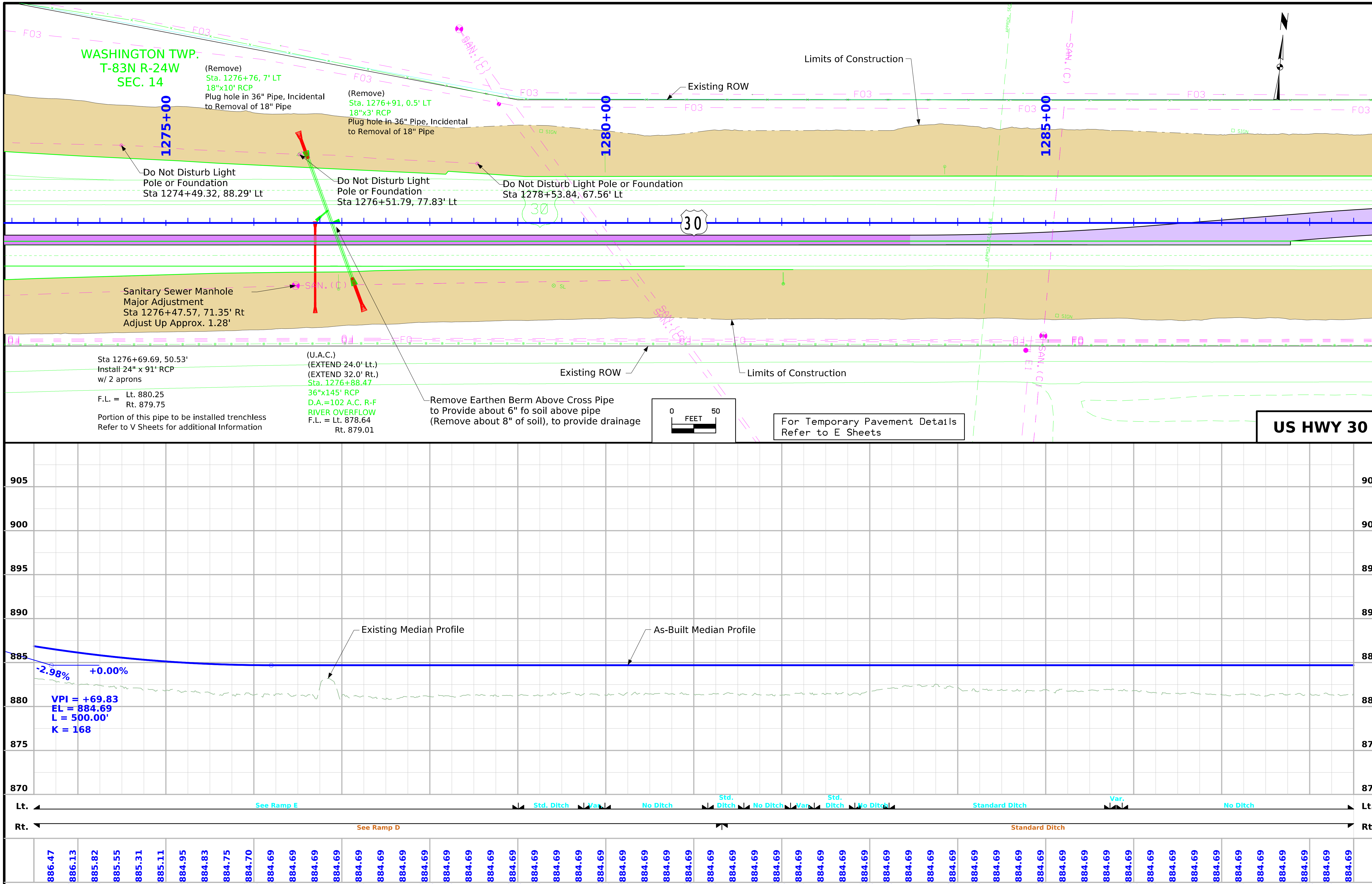
Lt. Use As Constructed See Ramp E Lt.

Rt. Use As Constructed See Ramp D Rt.

1259+00 1260+00 1261+00 1262+00 1263+00 1264+00 1265+00 1266+00 1267+00 1268+00 1269+00 1270+00 1271+00 1272+00 1273+00

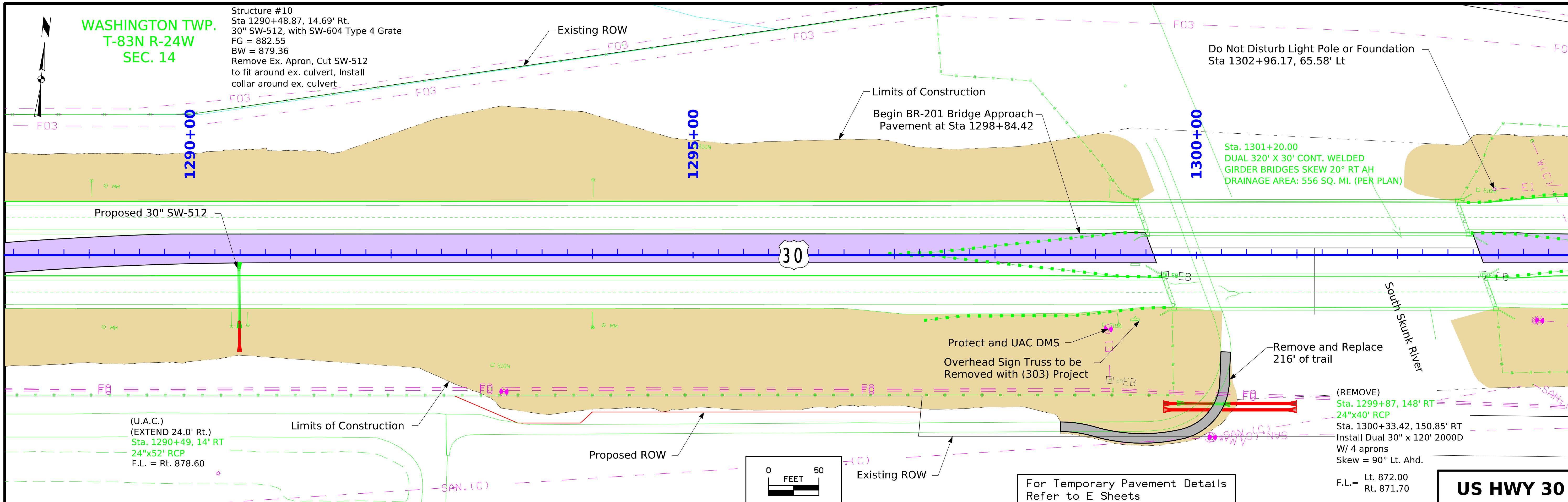
FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **D.2**

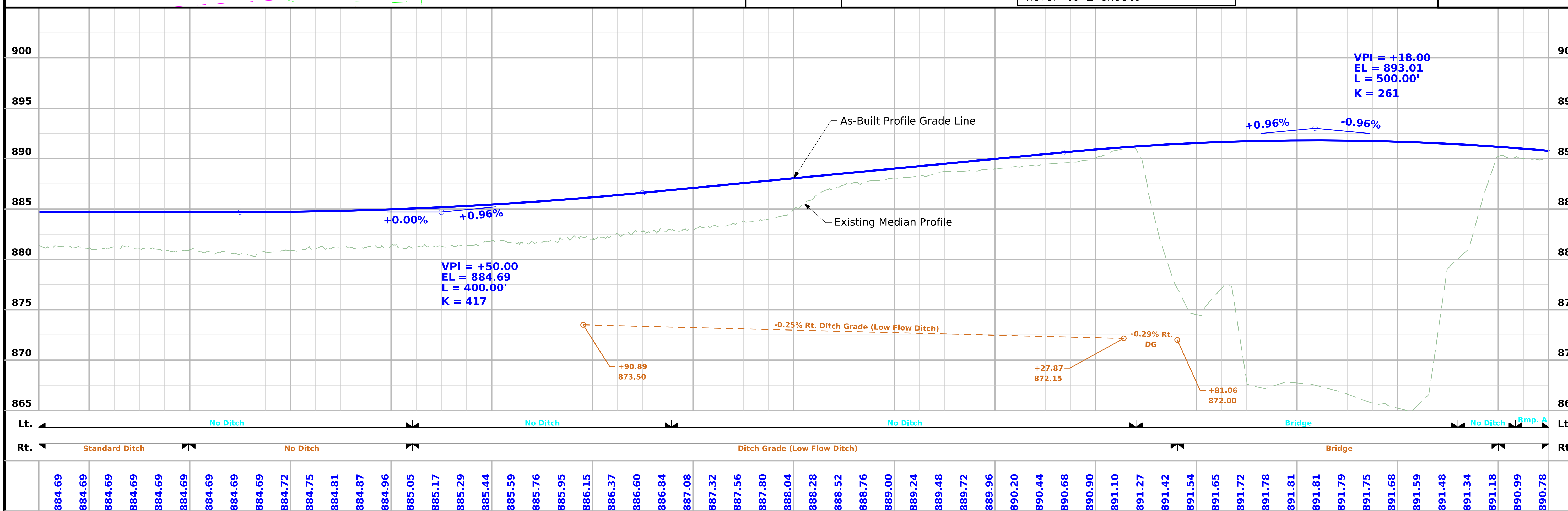
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FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **D.3**

10:50:49 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_D02.dgn





FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **D.4**

10:50:53 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_D02.dgn

WASHINGTON TWP.
T-83N R-24W
SEC: 14

Proposed ROW

Sta. 1307+70.00, 143.42' Lt.
Install 30" x 200' RCP
Lt. 874.85 (w/ flapgate)
F.L.= Rt. 875.65 (w/apron guard)

(Remove)
Sta. 1311+87, 72' LT
36"x24' RCP

Existing ROW

(U.A.C.)
Sta. 1319+06, 107' LT
24"x90' RCP

47.64'

STA: 1306+61.60
OFF: 157.74' LT

Ramp C Dike Site 3
Alignment

152.36'

STA: 1307+09.89
OFF: 156.19' LT
FL = 875.04
10.3° Bend

STA: 1308+58.26
OFF: 124.61' LT

Limits of Construction

1305+00 1310+00 1315+00

DAYTON AVE. RAMP C

Do Not Disturb Light Pole or Foundation
Sta 1306+48.98, 70.69' Lt

Do Not Disturb Light Pole or Foundation
Sta 1309+49.21, 77.20' Lt

Do Not Disturb Light Pole or Foundation
Sta 1312+49.87, 82.93' Lt

Do Not Disturb Light Pole or Foundation
Sta 1315+47.42, 102.37' Lt

30

Begin BR-201 Bridge Approach
Pavement at Sta 1303+50.17

Do Not Disturb Light Pole or Foundation
Sta 1306+38.92, 67.50' Rt

Do Not Disturb Light Pole or Foundation
Sta 1309+44.44, 85.76' Rt

Do Not Disturb Light Pole or Foundation
Sta 1312+46.50, 105.53' Rt

Sta. 1311+00.00, 140.80' Rt.
Install 24" X 136' RCP
w/ 2 aprons
Skew = 93°
Lt. 875.00
F.L.= Rt. 875.20

(U.A.C.)
(EXTEND 8.0' Rt.)
Sta. 1316+05, 114' RT
24"x65' RCP
F.L. = 875.03

DAYTON AVE. RAMP B

Ramp A Rt. Ditch Grade

Do Not Disturb Light Pole or Foundation
Sta 1303+36.63, 65.09' Rt

Ramp A
Rt. Ditch Grade

Limits of Construction

Existing ROW

Proposed ROW

Proposed ROW

Ramp B Dike Site 4 Alignment

For Dike Details
Refer to ED Sheets

For Temporary Pavement Details
Refer to E Sheets

0 FEET 50

US HWY 30

905 900 895 890 885 880 875 870

As-Built Profile Grade Line

Existing Median Profile

-0.96% -0.00%

VPI = +09.66
EL = 883.50
L = 400.00'
K = 417

Lt. See Ramp C

Rt.

890.55 890.31 890.07 889.83 889.59 889.35 889.11 888.87 888.63 888.39 888.15 887.91 887.67 887.43 887.19 886.95 886.71 886.47 886.23 885.99 885.75 885.51 885.27 885.05 884.84 884.65 884.47 884.31 884.16 884.03 883.91 883.81 883.72 883.64 883.59 883.54 883.51 883.50 883.50 883.50 883.50 883.50 883.50 883.50 883.50 883.50 883.50 883.50 883.50 883.50 883.50 883.50 883.50 883.50 883.50 883.50

1304+00 1305+00 1306+00 1307+00 1308+00 1309+00 1310+00 1311+00 1312+00 1313+00 1314+00 1315+00 1316+00 1317+00 1318+00

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER D.5

10:50:56 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_D02.dgn

(U.A.C.)
Sta. 1319+06, 107' LT
24"x90' RCP

DAYTON AVE. RAMP C

Limits of Construction

WASHINGTON TWP.
T-83N R-24W
SEC. 14

DAYTON AVE.

F03

STA. 1323+18.93
END GRADING

DAYTON AVE. RAMP A

(U.A.C.)
Sta. 1329+93, 101' LT
24"x92' RCP

1320+00

1325+00

1330+00

SIGN

30

(U.A.C.)
Sta. 1320+98, 9' RT
24"x72' RCP

F03

DAYTON AVE.

F03

(U.A.C.)
Sta. 1329+98, 12' RT
24"x80' RCP

(U.A.C.)
Sta. 1330+07, 133' LT
24"x58' RCP

F0

SAN.(C)

DAYTON AVE. RAMP D

For Temporary Pavement Details
Refer to E Sheets

0 FEET 50

US HWY 30

905
900
895
890
885
880
875
870

As-Built Profile Grade Line

Existing Median Profile

Lt. Use As Constructed Lt.

Rt. Use as Constructed Rt.

883.50

1319+00 1320+00 1321+00 1322+00 1323+00 1324+00 1325+00 1326+00 1327+00 1328+00 1329+00 1330+00 1331+00 1332+00 1333+00

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER D.6

10:50:59 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_D02.dgn

US 30 Westbound

6324+00

6325+00

6326+00

6327+00

6328+00

6329+00

Ramp C

Dayton Ave.

SE 16th St. Intersection

Refer to V Sheets for Culvert Information

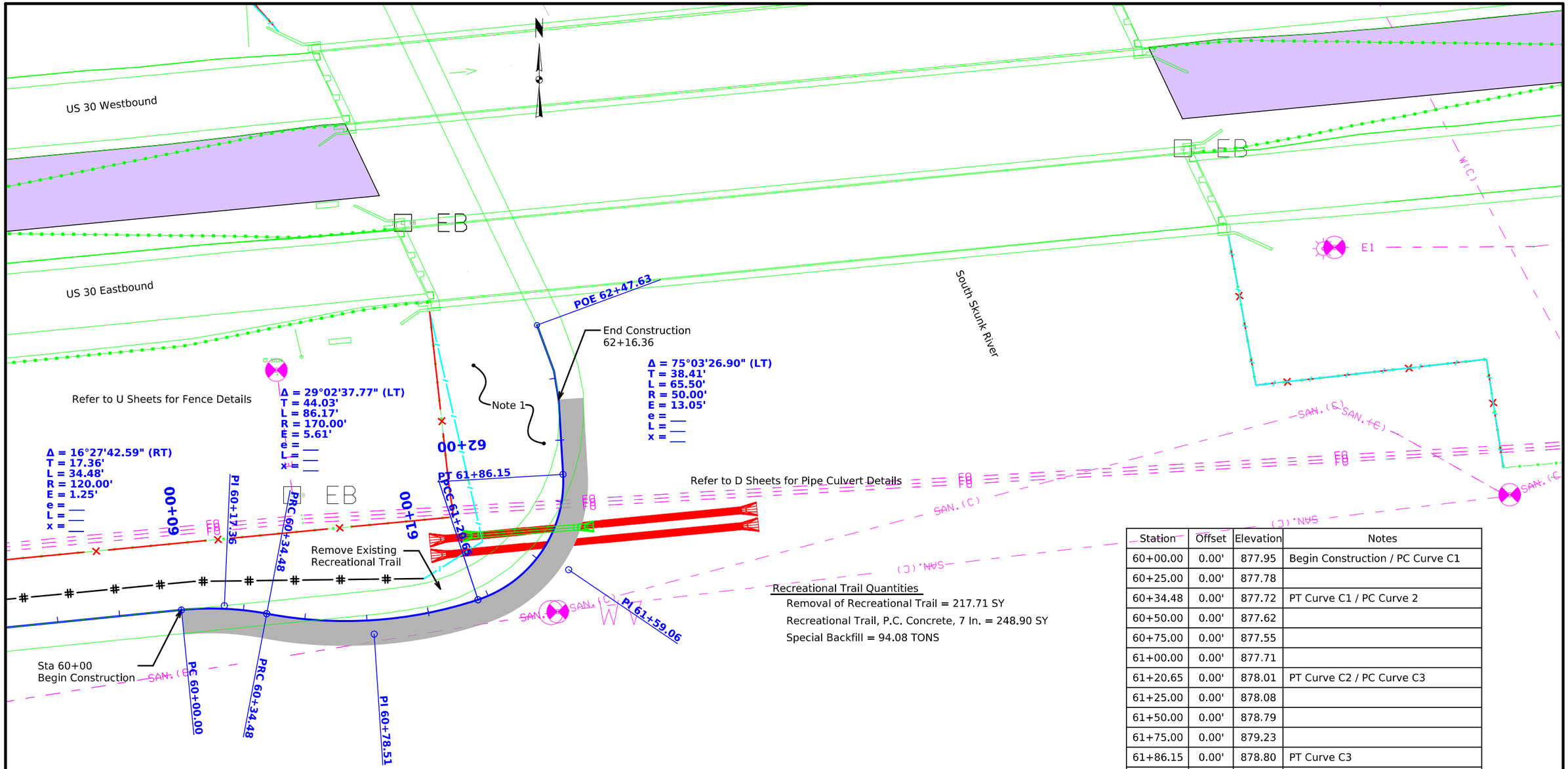
Ramp A

0 FEET 20

S. Dayton Ave.

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **E.1**

11:23:50 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_E01.dgn



Recreational Trail Quantities

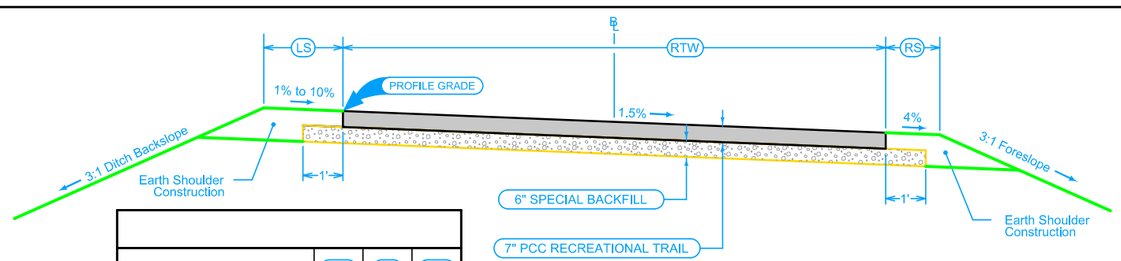
Removal of Recreational Trail = 217.71 SY

Recreational Trail, P.C. Concrete, 7 In. = 248.90 SY

Special Backfill = 94.08 TONS

Station	Offset	Elevation	Notes
60+00.00	0.00'	877.95	Begin Construction / PC Curve C1
60+25.00	0.00'	877.78	
60+34.48	0.00'	877.72	PT Curve C1 / PC Curve 2
60+50.00	0.00'	877.62	
60+75.00	0.00'	877.55	
61+00.00	0.00'	877.71	
61+20.65	0.00'	878.01	PT Curve C2 / PC Curve C3
61+25.00	0.00'	878.08	
61+50.00	0.00'	878.79	
61+75.00	0.00'	879.23	
61+86.15	0.00'	878.80	PT Curve C3
62+00.00	0.00'	878.35	
62+16.36	0.00'	877.88	End Construction

Note 1: Special Grading may be required in this area to tie grading into Trail



STATION TO STATION		RTW Feet	LS Feet	RS Feet
60+00.00	62+16.36	10	3-8	2

Transverse joints shall be "C" joints at 10' spacing.
Transverse joints at tie-in locations shall be ED joints

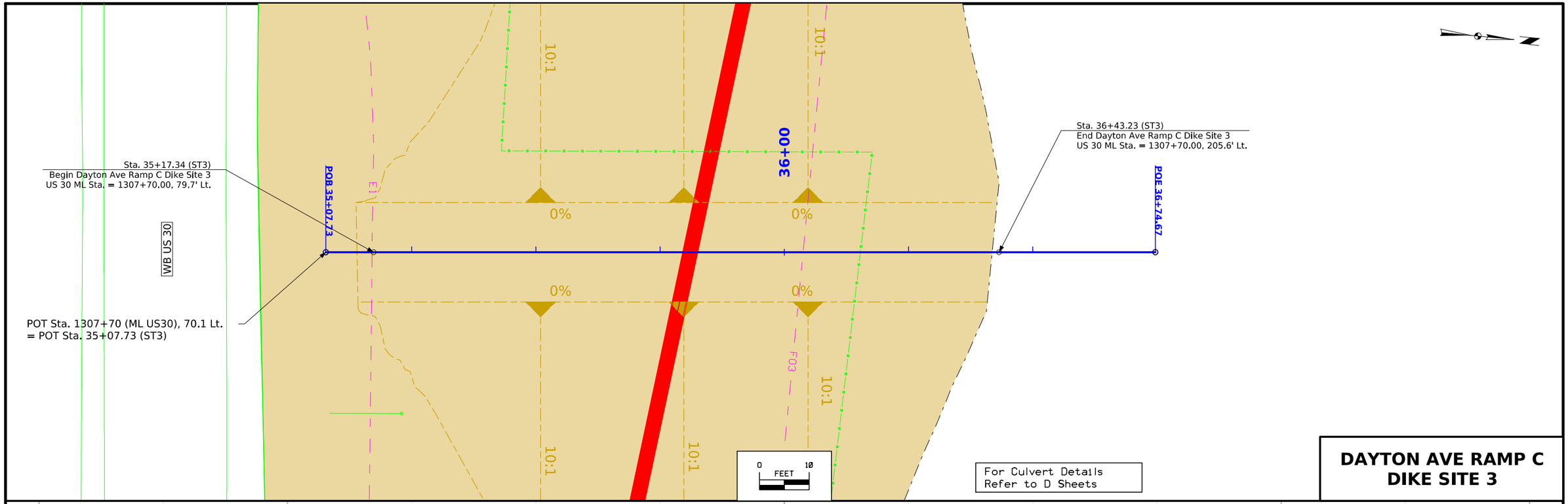
Recreational Trail
Typical Section

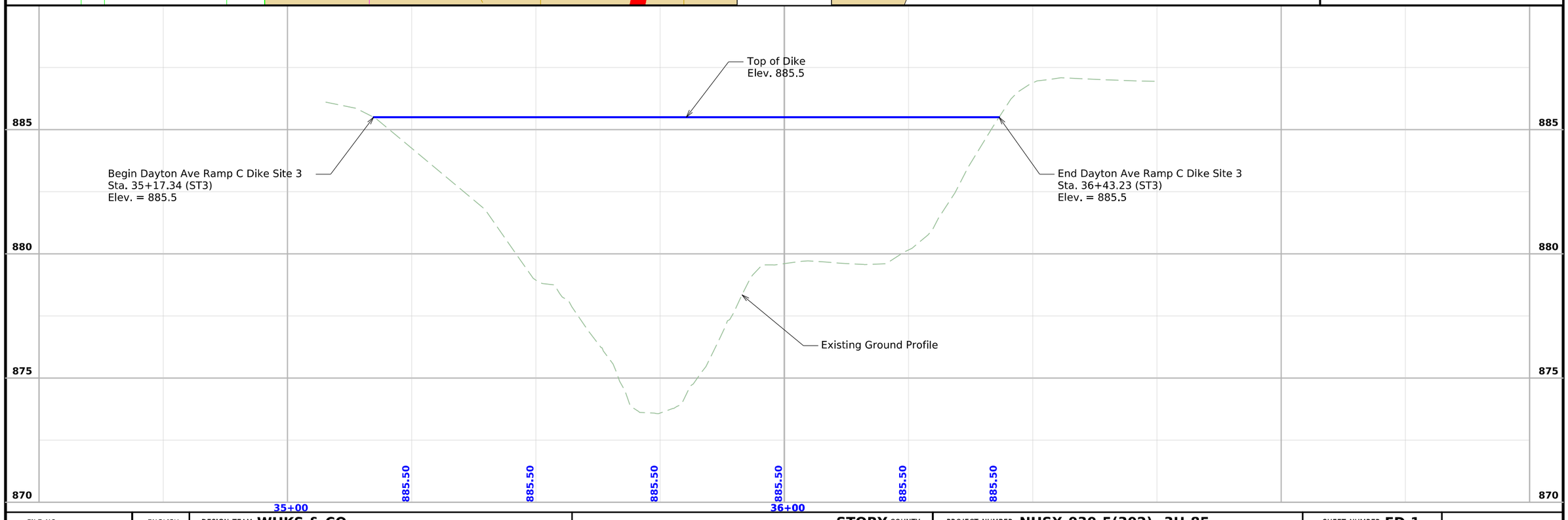
0 20
FEET

Recreational Trail Details

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER E.2

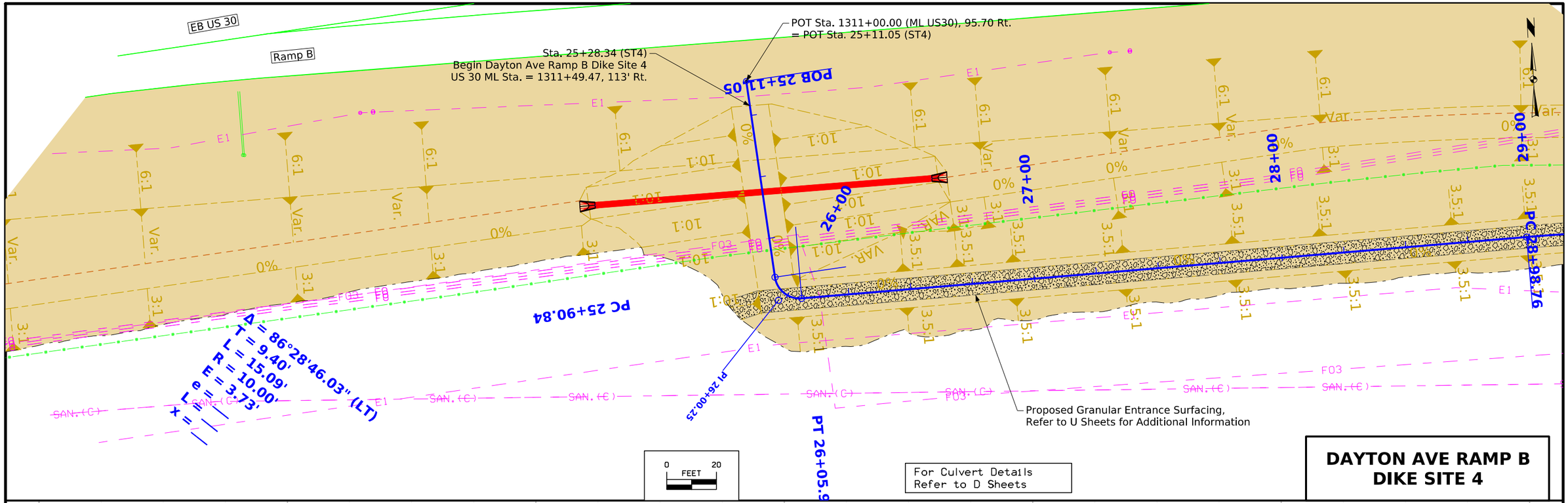
11:24:07 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_E02.dgn

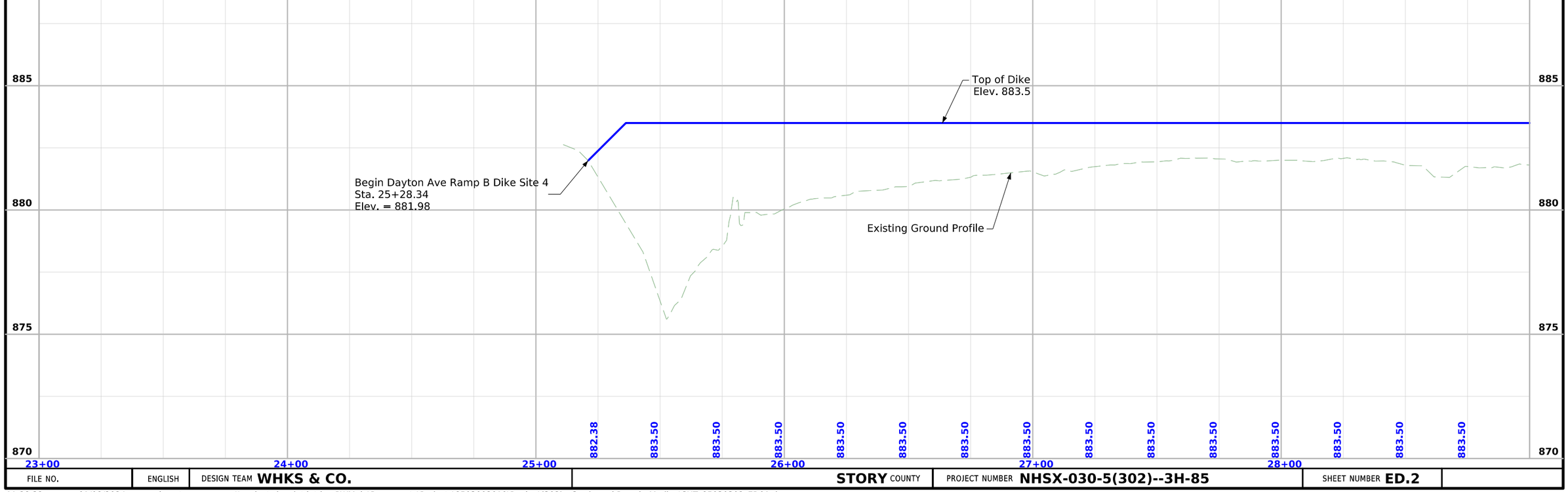




FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **ED.1**

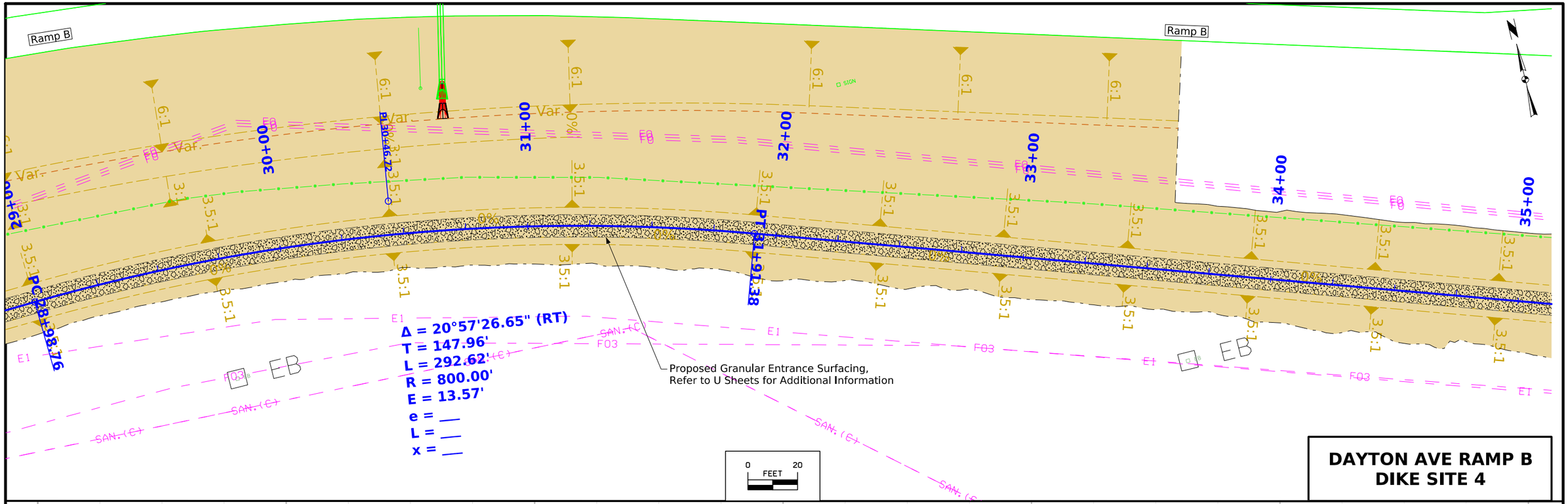
11:28:11 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_ED01.dgn

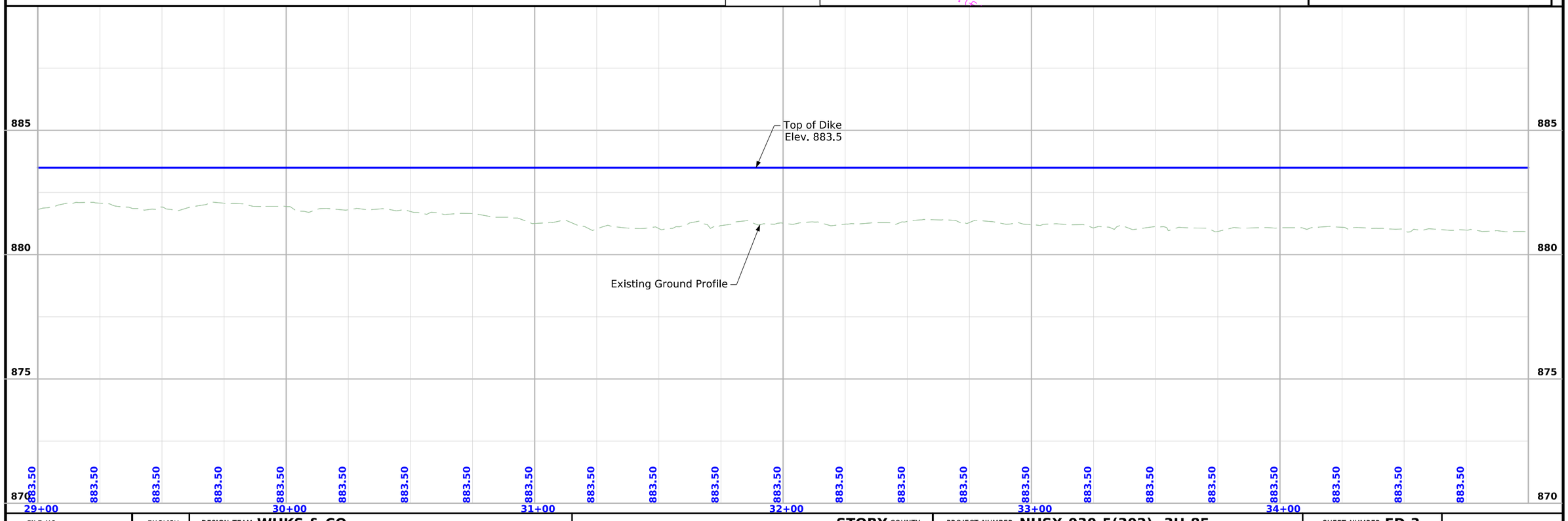




FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **ED.2**

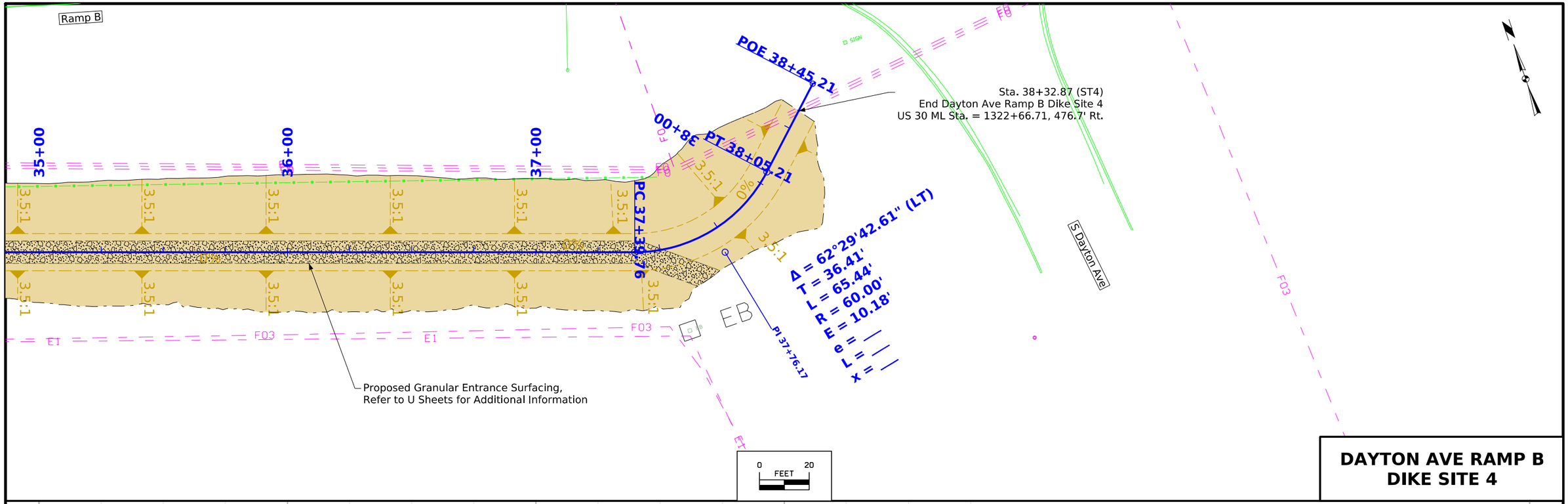
11:28:32 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_ED01.dgn

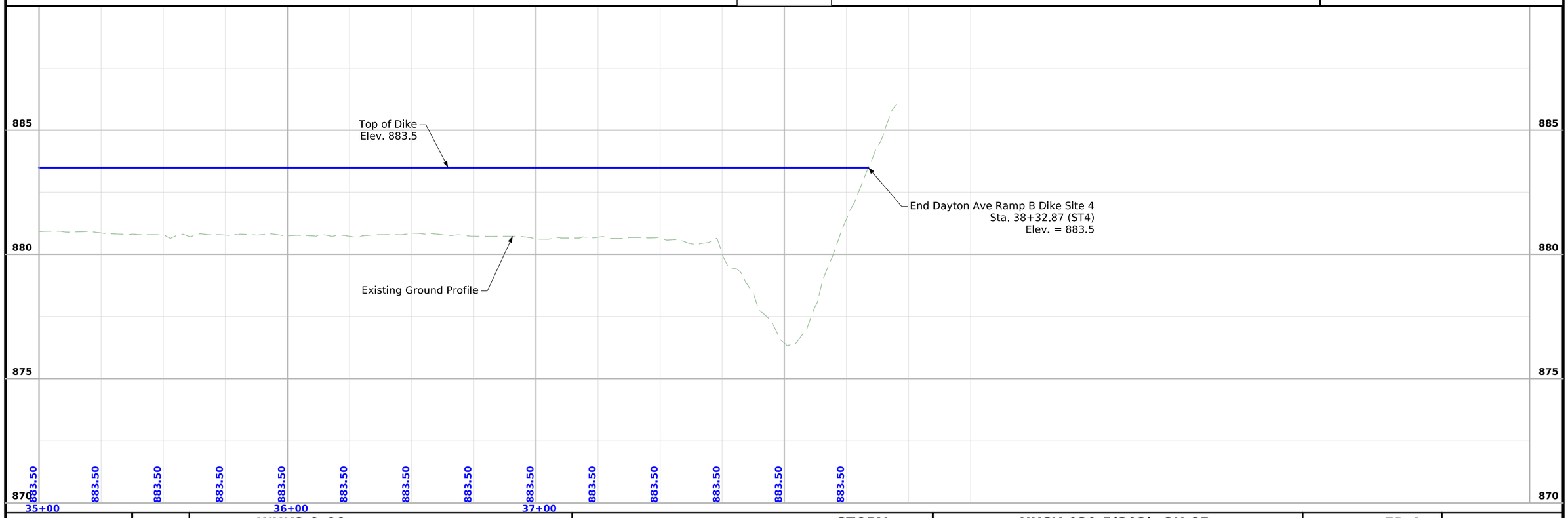




FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER ED.3

11:28:39 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_ED01.dgn





FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER ED.4

11:28:41 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_ED01.dgn

WASHINGTON TWP.
T-83N R-24W
SEC. 14

Δ = 04°34'50.00" (LT)
T = 139.98'
L = 279.81'
R = 3500.00'
E = 2.80'
e = —
L = —
x = —

1280+00
1285+00
1290+00
1295+00

ML US30 Alignment
Shoulder Strengthening
30
PC 1283+45.84
PT 1286+25.65
PC 1288+00.65
PI 1289+40.63
PT 1290+80.46
WB US 30
EB US 30
EB US 30 DETOUR
EB US30 Detour Alignment
Sta. 1283+45.84 (EB US30 DETOUR)
= Sta. 1283+45.85, 29' Rt. (ML US30)
Begin Detour Paving
PC 1284+85.22

Δ = 04°34'50.00" (RT)
T = 139.98'
L = 279.81'
R = 3500.00'
E = 2.80'
e = 2%
L = 116'
x = 58'

Sta. 1290+49, 14' RT
24"x52' RCP

0 FEET 50

EB US30 DETOUR PAVING

VPI = +20.00
EL = 884.82
L = 80.00'
K = 283

VPI = +20.00
EL = 884.58
L = 100.00'
K = 133

VPI = +60.00
EL = 885.30
L = 100.00'
K = 122

VPI = +80.00
EL = 884.94
L = 80.00'
K = 230

VPI = +50.00
EL = 885.10
L = 400.00'
K = 457

+0.04% -0.24% -0.24% +0.51% +0.51% -0.30% -0.30% +0.04% +0.04% +0.92%

Sta. 1283+45.84 (EB US30 DETOUR)
Elev = 884.75
Begin Detour Paving

Existing Ground Profile

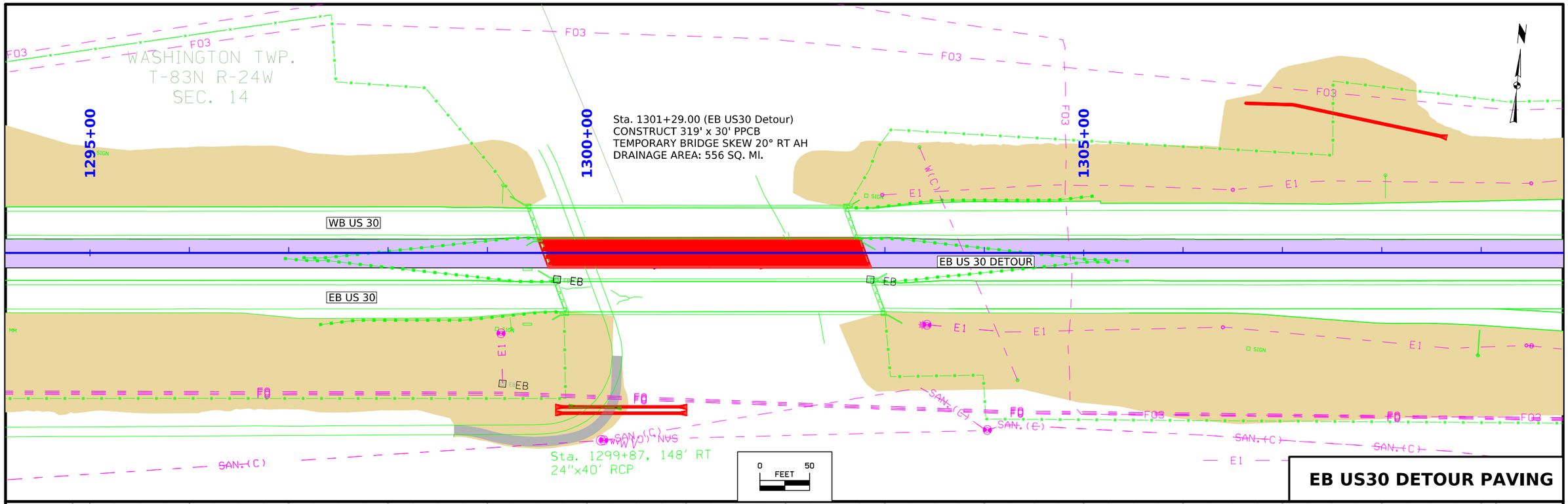
905 900 895 890 885 880 875 870 865 860

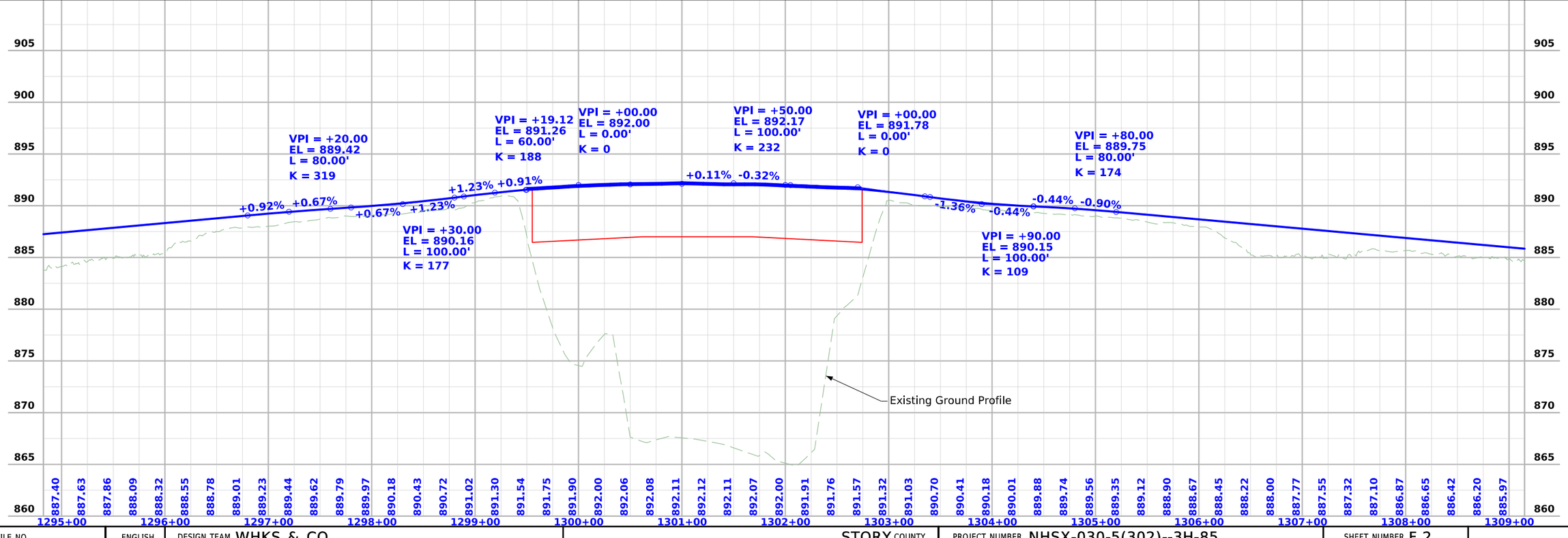
884.75 884.75 884.75 884.76 884.77 884.78 884.79 884.80 884.80 884.79 884.75 884.69 884.66 884.68 884.75 884.86 884.99 885.11 885.18 885.20 885.17 885.10 885.03 884.98 884.95 884.96 884.97 884.98 884.99 885.00 885.01 885.03 885.06 885.11 885.16 885.24 885.32 885.42 885.54 885.67 885.81 885.96 886.13 886.31 886.51 886.72 886.94 887.17

1281+00 1282+00 1283+00 1284+00 1285+00 1286+00 1287+00 1288+00 1289+00 1290+00 1291+00 1292+00 1293+00 1294+00

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER F.1

11:56:24 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_F01.dgn





FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER F.2

11:56:27 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_F01.dgn

WASHINGTON TWP.
T-83N R-24W
SEC. 14

Sta. 1311+87, 72' LT
36"x24' RCP

Sta. 1319+06, 107' LT
24"x90' RCP

Sta 1316+31.36
Install 18" x 447' Unclassified
w/ 2 Aprons
Skew 6.5° Lt. Ahd.
F.L. = Lt. 880.53
Rt. 880.05

Δ = 04°34'50.00" (LT)
T = 139.98'
L = 279.81'
R = 3500.00'
E = 2.80'
e = ___
L = ___
x = ___

1310+00
1315+00
1320+00

PI 1314+32.07

PC 1312+92.09
PT 1315+71.90
PC 1317+46.90
PT 1320+26.71

Sta. 1320+26.71 (EB US30 DETOUR)
= Sta. 1320+24.40, 29' Rt. (ML US30)
End Detour Paving

ML US30 Alignment

WB US 30
EB US 30
EB US 30 DETOUR
EB US30 Detour Alignment

Shoulder Strengthening

Δ = 04°34'50.00" (RT)
T = 139.98'
L = 279.81'
R = 3500.00'
E = 2.80'
e = 2%
L = 116'
x = 58'

Sta. 1316+05, 114' RT
24"x65' RCP

PI 1318+86.88

Sta. 1320+98, 9' RT
24"x72' RCP

0 FEET 50

EB US30 DETOUR PAVING

VPI = +10.00
EL = 884.08
L = 200.00'
K = 235

VPI = +10.00
EL = 883.98
L = 100.00'
K = 772

VPI = +31.96
EL = 884.08
L = 60.00'
K = 171

VPI = +20.00
EL = 883.84
L = 100.00'
K = 137

VPI = +20.00
EL = 884.30
L = 100.00'
K = 81

VPI = +20.00
EL = 883.52
L = 100.00'
K = 96

VPI = +25.42
EL = 883.80
L = 80.00'
K = 234

-0.90% -0.05% -0.05% +0.08% +0.08% -0.27% -0.27% +0.46% +0.46% -0.78% -0.78% +0.27% +0.27% -0.08%

Existing Ground Profile

Sta. 1320+26.71 (EB US30 DETOUR)
Elev = 883.61
End Detour Paving

895 890 885 880 875 870 865 860 855 850

885.75 885.52 885.30 885.07 884.85 884.65 884.49 884.34 884.23 884.14 884.07 884.04 884.02 884.01 884.00 884.00 884.00 884.01 884.03 884.05 884.06 884.02 883.96 883.93 883.94 883.99 884.09 884.15 884.14 884.04 883.87 883.72 883.64 883.62 883.67 883.73 883.77 883.78 883.76 883.74 883.72 883.70 883.69 883.67 883.61 883.54 883.46 883.38

1310+00 1311+00 1312+00 1313+00 1314+00 1315+00 1316+00 1317+00 1318+00 1319+00 1320+00 1321+00 1322+00 1323+00

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER F.3

11:56:30 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_F01.dgn

SURVEY INDEX

County: Story
PIN: 19-85-030-020
Project Number: BRFN-030-5(271)--38-35
Location: HWY-30 over South Skunk River, 1.2 Miles West of I-35
Type of Work: Bridge - Replacement
Project Directory: 8503002019

Survey Personnel

Jeremy Leemon	Survey Project Manager
Chris Ries	Assistant Survey Project Manager
CJ Beckman	Instrument
Jacob Powers	Instrument
Jamie Winchester	Instrument

Date(s) of Survey

Begin Date	11/5/2021
End Date	09/17/2021

General Information

This project is a full DTM survey utilizing both conventional survey and Whirrx drone photogrammetry. Measurement units for this survey are US survey feet. Project datum and control was established using previously established control. Starting Along HWY 30, approximately 0.16 miles East of HWY 69 and ending 0.5 miles West of I-35, 1.3 miles by 450 feet wide.

Project Control

The project coordinate system for this survey is IaRCS Zone 8(U.S. Survey Feet). This survey control is relative to NGS control. We observed 5 control points surrounding the project, observing each control twice for 180 epochs and averaging the measurements. SC304,SVS097,SVS099, SVS100, and SVS101 were then calibrated from CP100. Additional control points were placed throughout the project using GNSS Base-Rover setup relative to CP100.

PROJECT DATUM: NAD83(2011) EPOCH 2010.00
VERTICAL DATUM: NAVD88 – GEOID MODEL 18
COORDINATE SYSTEM: IOWA REGIONAL COORDINATE SYSTEM ZONE 8

Alignments Information

Alignment SURMLA030

A hinge nail was found at P.I. Sta. 1166+14.70 Project FN-30-5(15)—21-85 and A ½" re-rod was found at P.I. Sta. 1410+14.2 Project F-1065(9) a straight line between P.I.'s was held for the centerline. Stationing was established at the intersection of Dayton Road with US 30, Sta. 1323+48.75 and carried back and forward through the project.

Station Equations are as follows:

P.I. Sta. 1166+14.70 (Project FN-30-5(15)—21-85) Found Hinge Nail
= Sta. 1164+88.28 This Survey

Sta. 1285+09.30 (Project FU-1065(16) Found 5/8" re-rod (WHKS alignment control Sta. 1285+08.62) 0.217' Lt. of Sta. 1285+08.62 This survey

Sta. 1323+48.75 (Project HES-30-5(57)—2H-85) Found "X" in Bridge (WHKS alignment Control Sta. 1323+48.75) 0.285' Left of Sta. 1323+48.75 This survey

P.I. Sta. 1410+14.2 (Project F-1065(9) Found ½" re-rod
= Sta. 1410+09.48 This survey

Utility Information

For logging data and other utility details see Utility Survey and Ownership Report in the Utility folder of the PrelimSurvey project directory.

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points. Primary control is for use with RTK base stations and for RTN validation. Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) EPOCH 2010.00 - Ia. RCS Zone 8
VERT. DATUM: NAVD88 - Geoid Model 18

Coordinate listing from next sheet will be used with IaRTN for monument recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2010.00
Ia. Regional Coordinate System Zone 8

VERT. DATUM: NAVD88
Geoid Model 18
Project Control Marks are Bench Marks

Point Name	Northing	Easting	Elevation	Feature Definition-Description
99	7639502.580	18529349.922	915.103	CP FD NGS MON in Median of US 30, 330' East of NB CL of S Duff Ave
100	7639937.050	18534748.551	878.893	CP FD NGS MON 48' South of US 30 EB CL, 670' West of CL of Dayton Ave
101	7640510.058	18540657.200	912.711	CP FD NGS MON 42' South of US 30 EB CL, 1065' East of NB CL of Interstate 35

ALIGNMENT COORDINATES

Line No.	Name	Location	Poin on Tangent Station	Point on Tangent Y Northing	Point on Tangent X Easting	Begin Spiral Station	Begin Spiral Y Northing	Begin Spiral X Easting	Begin Curve Station	Begin Curve Y Northing	Begin Curve X Easting	Simple Curve PI or Master PI Station	Simple Curve PI or Master PI Y Northing	Simple Curve PI or Master PI X Easting	End Curve Station	End Curve Y Northing	End Curve X Easting	End Spiral Station	End Spiral Y Northing	End Spiral X Easting
1.0	1	GEO_US030	1164+88.28	7638573.159	18519617.05															
2.0	2	GEO_US030	1323+48.75	7640084.621	18535405.34															
3.0	2	GEO_US030	1410+09.48	7640909.966	18544026.65															
4.0	1	GEO_WB30	1164+88.28	7638609.991	18519613.53															
5.0	2	GEO_WB30	1323+48.75	7640121.453	18535401.81															
6.0	2	GEO_WB30	1410+09.47	7640946.798	18544023.12															
7.0	1	GEO_EB30	1164+88.28	7638536.327	18519620.58															
8.0	2	GEO_EB30	1323+48.75	7640047.789	18535408.86															
9.0	2	GEO_EB30	1410+09.47	7640873.134	18544030.17															
10.0	1	GEO_DETOUR_EB30	1283+00.00	7639669.918	18531377.78															
11.0	2	GEO_DETOUR_EB30							1283+45.84	7639674.286	18531423.41	1284+85.82	7639687.625	18531562.75	1286+25.65	7639712.051	18531700.58			
12.0	4	GEO_DETOUR_EB30							1288+00.65	7639742.586	18531872.9	1289+40.63	7639767.011	18532010.73	1290+80.46	7639780.351	18532150.07			
13.0	6	GEO_DETOUR_EB30							1312+92.09	7639991.114	18534351.64	1314+32.07	7640004.454	18534490.98	1315+71.90	7640006.623	18534630.94			
14.0	8	GEO_DETOUR_EB30							1317+46.90	7640009.335	18534805.92	1318+86.88	7640011.504	18534945.89	1320+26.71	7640024.843	18535085.23			
15.0	9	GEO_DETOUR_EB30	1321+02.31	7640032.048	18535160.49															
16.0	1	GEO_S_DAYTON	6300+00.00	7637746.561	18535629.17															
17.0	1	GEO_S_DAYTON	6330+00.00	7640732.908	18535343.28															
18.0	1	GEO_DIKE_ST3	35+07.73	7640003.913	18533827.1															
19.0	1	GEO_DIKE_ST3	36+74.67	7640170.091	18533811.19															
20.0	1	GEO_DIKE_ST4	25+11.05	7639870.352	18534171.39															
21.0	2	GEO_DIKE_ST4							25+90.84	7639790.921	18534179	26+00.25	7639781.56	18534179.89	26+05.94	7639781.88	18534189.29			
22.0	4	GEO_DIKE_ST4							28+98.76	7639791.833	18534481.95	30+46.72	7639796.862	18534629.82	31+91.38	7639748.667	18534769.72			
23.0	6	GEO_DIKE_ST4							37+39.76	7639570.045	18535288.19	37+76.17	7639558.187	18535322.61	38+05.21	7639583.241	18535349.03			
24.0	7	GEO_DIKE_ST4	38+45.21	7639610.767	18535378.05															
25.0	1	GEO_PRP_RMPA (Dayton Ave)	2505+83.25	7639855.291	18533649.92															
26.0	2	GEO_PRP_RMPA (Dayton Ave)							2513+34.08	7639876.967	18534400.44	2515+44.36	7639883.038	18534610.63	2517+51.19	7639823.968	18534812.45			
27.0	3	GEO_PRP_RMPA (Dayton Ave)	2519+00.00	7639782.166	18534955.26															
28.0	1	GEO_PRP_RMPB (Dayton Ave)	3503+19.51	7639951.714	18533376.93															
29.0	2	GEO_PRP_RMPB (Dayton Ave)							3513+19.71	7640066.92	18534370.47	3516+64.18	7640106.597	18534712.64	3520+04.33	7640237.333	18535031.34			
30.0	3	GEO_PRP_RMPB (Dayton Ave)	3524+00.00	7640392.467	18535395.32															
31.0	1	GEO_PRP_RMPD (Duff Ave.)	4263+00.00	7639261.214	18529432.8															
32.0	2	GEO_PRP_RMPD (Duff Ave.)							4265+57.32	7639361.611	18529669.72	4268+44.64	7639473.711	18529934.27	4271+28.05	7639506.806	18530219.68			
33.0	3	GEO_PRP_RMPD (Duff Ave.)	4281+28.52	7639622.043	18531213.48															
34.0	1	GEO_PRP_RMPE (Duff Ave.)	5268+00.00	7639723.527	18529874.75															
35.0	2	GEO_PRP_RMPE (Duff Ave.)							5269+18.34	7639711.106	18529992.44	5270+52.57	7639697.016	18530125.93	5271+86.41	7639700.891	18530260.1			
36.0	4	GEO_PRP_RMPE (Duff Ave.)	5272+97.35	7639704.094	18530371															
37.0	4	GEO_PRP_RMPE (Duff Ave.)	5278+98.15	7639721.439	18530971.55															
38.0	1	GEO_TRAIL	58+94.35	7639672.256	18532843.8															
39.0	2	GEO_TRAIL							60+00.00	7639682.747	18532948.93	60+17.36	7639684.478	18532966.2	60+34.48	7639681.244	18532983.26			
40.0	3	GEO_TRAIL							60+34.48	7639681.244	18532983.26	60+78.51	7639673.04	18533026.52	61+20.65	7639686.871	18533068.33			
41.0	4	GEO_TRAIL							61+20.65	7639686.871	18533068.33	61+59.06	7639698.935	18533104.79	61+86.15	7639737.275	18533102.53			
42.0	6	GEO_TRAIL	62+16.36	7639767.431	18533100.76															
43.0	7	GEO_TRAIL	62+27.89	7639778.802	18533098.88															
44.0	7	GEO_TRAIL	62+47.63	7639797.329	18533092.06															

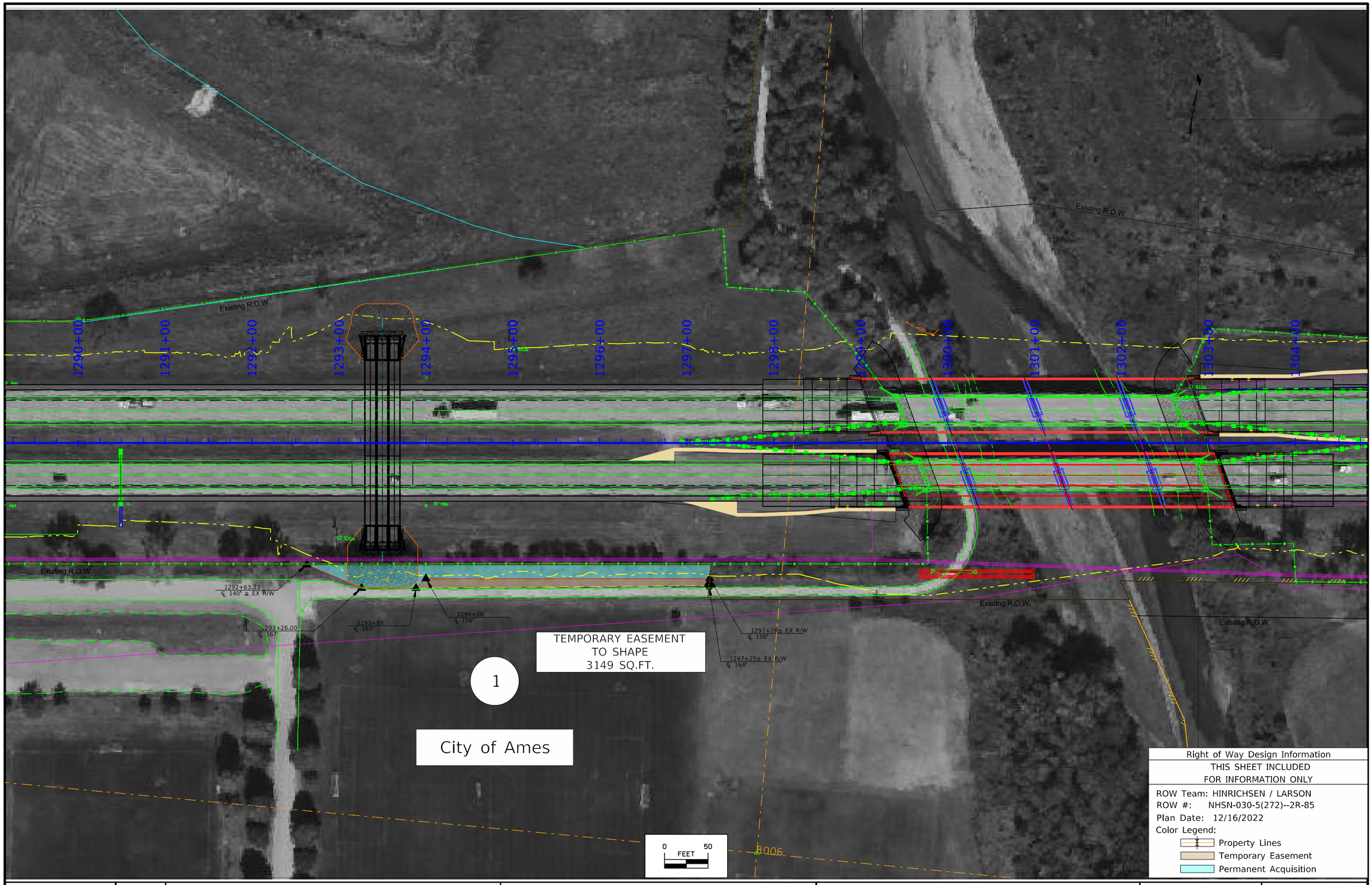
SPIRAL OR CIRCULAR CURVE DATA

Line No.	Name	Location	SCS	S	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	C	T	L	R	E	Remarks
1.0	C1	GEO_DETOUR_EB30										4.581◆	139.98	279.81	3500	2.798	
2.0	C2	GEO_DETOUR_EB30										4.581◆	139.98	279.81	3500	2.798	
3.0	C3	GEO_DETOUR_EB30										4.581◆	139.98	279.81	3500	2.798	
4.0	C4	GEO_DETOUR_EB30										4.581◆	139.98	279.81	3500	2.798	
5.0	C1	GEO_DIKE_ST4										86.479◆	9.404	15.094	10	3.727	
6.0	C2	GEO_DIKE_ST4										20.957◆	147.964	292.621	800	13.568	
7.0	C3	GEO_DIKE_ST4										62.495◆	36.405	65.445	60	10.181	
8.0	C1	GEO_PRP_RMPA										17.969◆	210.281	417.11	1330	16.521	
9.0	C1	GEO_PRP_RMPB										15.690◆	344.467	684.623	2500	23.62	
10.0	C1	GEO_PRP_RMPD										16.350◆	287.319	570.732	2000	20.533	
11.0	C1	GEO_PRP_RMPE										7.679◆	134.233	268.063	2000	4.5	
12.0	C1	GEO_TRAIL										16.462◆	17.358	34.478	120	1.249	
13.0	C2	GEO_TRAIL										29.044◆	44.034	86.175	170	5.61	
14.0	C3	GEO_TRAIL										75.057◆	38.406	65.5	50	13.048	

SUPERELEVATION DATA

See PV-300 Series

Line No.	Road Identification	Circular Curve or Spiral Curve Name	Radius (FT)	e (%)	L (FT)	x (FT)	Standard Road Plan	Section A-A	Section A'-A'	Section B-B	Section C'-C'	Section C-C	Section D-D	Case A	Case B	Case C	Case S	Case T	Case U	Remarks
1.0	GEO_DETOUR_EB30	C2	3500.0	2.0	116.0	58.00	PV-301	1286+61.45		1287+19.45		1287+77.45	1288+35.45		1288+00.65		1288+35.45			2% superelevation maintained through bridge
2.0	GEO_DETOUR_EB30	C3	3500.0	2.0	116.0	58.00	PV-301	1317+11.10		1316+53.10		1315+95.10	1315+37.10		1315+71.90		1315+37.10			2% superelevation maintained through bridge



FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER BRFN-030-5(271)--38-85	SHEET NUMBER H1	

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2

Deery, Deery & Deery LLC

1307+68.00
℄ 116'

1306+34.51
℄ 189'± EX R/W

Existing R.O.W.

1308+89.80
℄ 164'± EX R/W

Existing R.O.W.

1303+00 1304+00 1305+00 1306+00 1307+00 1308+00 1309+00 1310+00 1311+00 1312+00 1313+00 1314+00 1315+00 1316+00 1317+00 1318+00

'X' = 93-FT

L = 372-FT

M = 55.8
30% OF 'L'

D

30

Existing R.O.W.

1306+47
℄ 164.04'± EX R/W

1307+52
℄ 165.37'± EX R/W

1310+38.00
℄ 168' ± EX R/W

1310+38.00
℄ 190.00'

1306+47
℄ 204'

1307+52
℄ 205'

1311+18.43
℄ 235.00'± EX R/W

Existing R.O.W.

3

1306+54
℄ 303'

1305+78
℄ 298'

Georgette Ward Living Trust

1307+45
℄ 383'

1305+70
℄ 458'

1303+68
℄ 504'

1306+77
℄ 425'

1306+65
℄ 502'

PERMANENT EASEMENT FOR
DRAINAGE PURPOSES

1303+82
℄ 566'

0 50
FEET

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: HINRICHSEN / LARSON
ROW #: NHSN-030-5(272)--2R-85
Plan Date: 12/16/2022
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER BFRN-030-5(271)--38-85	SHEET NUMBER H2	

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TRAFFIC CONTROL PLAN

General Notes:

1. Two lanes of traffic in each direction shall be maintained on US 30 at all times, except as noted in Tab. 108-23B.
2. One lane of traffic in each direction may be maintained on US 30 during the times shown on Tab. 108-23B.
3. Dayton Ave. and Duff Ave. ramps shall remain open to traffic at all times.
4. Grading operations shall not begin prior to the 2025 construction season.
5. No lane closures or work shall be allowed during days of Iowa State University football home games. Additional special events may be identified in the future and will need to be accommodated through the project area, as necessary.
6. Equipment and material deliveries must be done at night under a lane closure.
7. No traffic control devices for lane closures shall be placed before 9:00 pm on Sunday or 7:00 pm on Monday through Thursday. Refer to Tab. 108-23B.
8. All traffic control devices shall be removed before 6:00 am each working day. Refer to Tab. 108-23B.
9. The trail under the existing US 30 South Skunk River bridges shall be closed and detoured when working over the trail.
10. The trail under the existing US 30 South Skunk River bridges shall remain open when work is not impacting the trail and the trail detour signs shall be covered.
11. Refer to Sheet Nos. J.31 & J.32 for trail closure signage and detour.
12. The South Skunk River is considered a water trail paddling route. Water trail closure signs shall be installed per the Sheet Nos. J.31 & J.32.
    a. All construction debris shall be removed from the river channel when construction is completed or as soon as possible during construction.
13. Staging shown in these plans is a suggested option for completing the work. The Contractor may make changes to the staging plan, but any changes must be approved by the Engineer.

Project Notes:

1A. For constructing the Temporary Pavement adjacent to the US 30 westbound median paved shoulder (Stage 1), daytime method (See 1.B for alternative construction/Traffic Control method).
   a. Place TBR 0.5' outside of the median lane line. This provides approximately 1.5' of existing shoulder between the TBR and edge of paved shoulder.
   b. For day time work, TC-402 advanced signing shall be used east of the work zone.
   c. Subbase must be placed in the same day that grading operations excavate material in the area. Place a subbase safety edge of 2H:1V adjacent to the existing pavement, incidental to subbase bid item.
   d. Note, 3' cannot be provided outside of the temporary pavement for paver pads.
   e. The intent is to leave no drop-offs and no lane closures during the day.
   f. For US 30 eastbound, close the inside shoulder per TC-402.
   g. When paving (and only when paving), TBR can be shifted away from temporary pavement to provide required width for pad line. Traffic lane must be kept at a 14' width. Extended lane closure hours are permitted to move TBR, pave, then move the TBR back to its original location.
   Extended lane closure hours are only permitted for the days that paving will take place adjacent to existing pavement. Contractor is to stage operations so that these extended hours take place on as few days as possible. For westbound paving only, a lane closure may begin at 11:00 am and continue until 6:00 am the following day. This closure is allowable to begin on either Tuesday, Wednesday or Thursday. For eastbound paving only, a lane closure may begin at 7:00 pm and continue until 2:00 pm the following day. This closure is allowable to begin on Monday, Tuesday or Wednesday.

1B. For constructing the Temporary Pavement adjacent to the US 30 westbound median paved shoulder (Stage 1), nighttime method (See 1.A for alternative construction/Traffic Control method).
   a. Use Standard Road Plan TC-418 to close the inside lane. The lane closure can only be in place according to Tab. 108-23B.
   b. All costs for provisions for night work (signs, arrow boards, lights, etc.) shall be included in the traffic control bid item.
   c. The intent is to leave no drop-offs and no lane closures during the day.
   d. For US 30 eastbound, close the inside shoulder per TC-402.

2. For constructing the Shoulder Strengthening and Temporary Pavement ties to existing adjacent to the US 30 eastbound lanes (Stage 2).
   a. Use Standard Road Plan TC-418 to close the inside lane of US 30 eastbound for Temporary Pavement ties to existing and for Shoulder Strengthening. The lane closure can only be in place according to Tab. 108-23B.
   b. No drop-offs will be allowed without a lane closure (i.e. - no drop-offs will be allowed during daytime hours).
   c. The intent is to grade, place subbase and pave back the area excavated in one night.
   d. For US 30 westbound, close the inside shoulder per TC-402.

3. For constructing the embankment for future widening adjacent to US 30.
   a. Install TBR on the existing outside shoulders of US 30 and the ramps per Sheet Nos. J.19 to J.24.
   b. Close the eastbound and westbound outside shoulders per TC-402
   c. Close the shoulders on Duff Ave. Ramp D and Dayton Ave. Ramp C per TC-416.

Water Trail Traffic Control and Signage:

The following provisions shall be included in the Traffic Control for the South Skunk River State Water Trail, and shall be included in the price bid for Traffic Control.

1. Contact a nearby canoe and kayak outfitter and rental business prior to the start of construction:
   Jax Outfitters
   marshal@amesoutdoor.com
   South Skunk River
   515-292-2276
   4723 West Lincoln Way
   Ames, IA 50014
2. Notify John Wenck via e-mail at john.wenck@dnr.iowa.gov, when any temporary channel obstruction is placed or removed, so a hazard symbol can be added to the DNR's interactive river mapping system and removed once the project is completed.
3. Notify DNR Conservation Officer Brandon Bergquist (via e-mail at brandon.bergquist@dnr.iowa.gov or phone at 515-290-0177) and DNR Recreational Safety Officer Jeff Barnes (via e-mail at jeff.barnes@dnr.iowa.gov or phone at 515-290-4907) prior to installation of signs.
4. Contact County Conservation Director & Water Trail Sponsor, Mike Cox at mcox@storycountyiowa.gov prior to beginning construction.

TRAFFIC CONTROL CLOSURE TABLE(S)

* This is to only be used in conjunction with Tabulation 108-23A.
"X" area indicates times that lane closures are not allowed.

Roadway Name	Day	12:00 AM	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00 PM	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30
US 30	Tuesday													X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
US 30	Wednesday													X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
US 30	Saturday	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
US 30	Sunday	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
US 30	Thursday													X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
US 30	Monday													X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
US 30	Friday													X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

511 TRAVEL RESTRICTIONS

Line No.	Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No. or Structure ID or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
1.0	US 30	EB	Story	Between Duff Ave. and Dayton Ave.	South Skunk River	Barrier	48730	Horizontal	30	28	N/A	N/A	
2.0	US 30	WB	Story	Between Duff Ave. and Dayton Ave.	South Skunk River	Barrier	48740	Horizontal	30	28	N/A	N/A	

STAGING NOTES

Notes:
Refer to the Proposal for site restrictions.
Place all Erosion Control Devices prior to beginning construction.
Refer to BRF-030-5(271)--38-85 plan set for bridge staging details. Roadway staging must be coordinated with Bridge staging.

Stage 1:
  Traffic:
    - Maintain 2 lanes of traffic on US 30, in each direction, at all times, except per Tab. 108-23B.
    - Maintain traffic as normal on Duff Ave. and Dayton Ave. ramps, at all times.
    - Refer to Tab. 108-23A for traffic control while constructing temporary pavement adjacent to US 30 westbound.

  Construction:
    - Construct temporary pavement, except for tie-ins to existing US 30 eastbound.

Stage 2:
  Traffic:
    - Maintain 2 lanes of traffic on US 30 westbound at all times.
    - Maintain 2 lanes of traffic on US 30 eastbound, at all times, except per Tab. 108-23B.
    - Maintain traffic as normal on Duff Ave. and Dayton Ave. ramps, at all times.
    - Refer to Tab. 108-23A for traffic control while constructing temporary pavement tie-ins to US 30 eastbound.

  Construction:
    - Construct temporary pavement tie-ins to existing US 30 eastbound.

Stage 3:
  Traffic:
    - Maintain 2 lanes of traffic, in each direction, on US 30 at all times.
    - Maintain traffic on Duff Ave. and Dayton Ave. ramps, at all times.
    - TBR is to be placed adjacent to the grading areas. Crash cushions are to be installed per Tab. 108-30.

  Construction:
    - Grade future auxiliary lanes on the outside of both US 30 eastbound and US 30 westbound.
    - Grade future ramp re-alignments as shown on the D Sheets.

COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work
BRF-030-5(271)--38-85	Reconstruction - Bridge Widening
ITS-030-5(320)--25-85	ITS Infrastructure
NHSX-030-5(303)--3H-85	Traffic Signs
NHSN-030-5(326)--2R-85	Emergency Bridge Repair

CROSS SECTION VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Violet	(15)	Temporary Pavement Shading
Orange	(6)	Previously Constructed Temporary Pavement Shading

CROSS SECTION VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

	Pavement Removal		Proposed Granular Shoulder
	Proposed Granular Subbase		Temporary Shoulder
	Proposed Special Backfill		Existing Shoulder Strengthening
	Temporary Barrier Rail		Permanent Barrier Rail
			Channelizing Device

PLAN VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Magenta	(5)	Pavement Marking Call Outs
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Yellow	(4)	Pavement Markings, Yellow
Off White	(254)	Pavement Markings, White

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Proposed Granular Surface Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Violet	(15)	Temporary Pavement Shading
Orange	(6)	Previously Constructed Temporary Pavement Shading
Brown, Light	(236)	Proposed Grading Limits Shading
Red	(3)	Proposed Bridge Shading and Sign Trusses
Black w/Gray, Light Fill	(0,48)	Previously Constructed Structure

PLAN VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

●	Channelizing Device		Crash Cushion (Temp or Perm)
✕	Drum		Traffic Signal
▫	Temporary Lane Separator		Flagger
◆	Tubular Marker		Temporary Floodlighting
♦	Channelizer Marker		Traffic Sign
△	Concrete Barrier Marker		Type III Barricade
⊰	Delineator		Type A Warning Light
	Temporary Barrier Rail		Direction of Traffic
	Pavement Removal		Safety Closure
	Sand Barrel Layout	1	Lane Identification

NOTE: Device spacing according to Standard Road Plans unless specifically dimensioned.

TRAFFIC CONTROL AND STAGING LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES J)



US30 TRAFFIC CONTROL
STAGE 1

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **J.7**	

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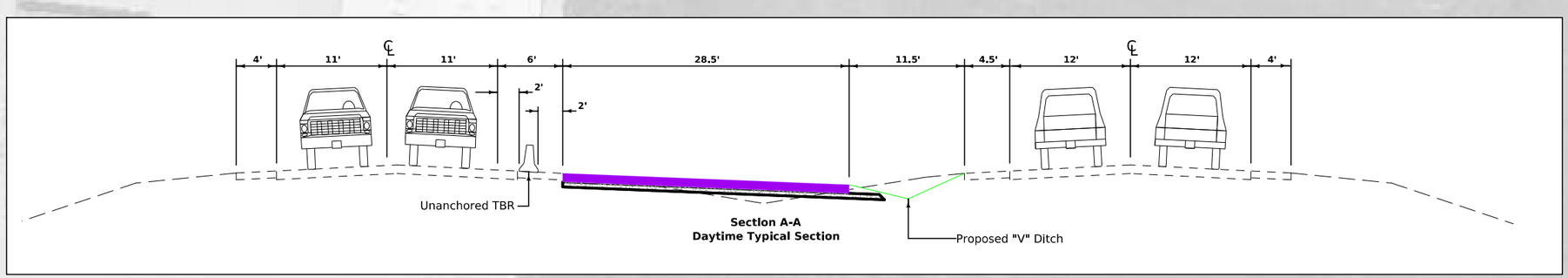


US30 TRAFFIC CONTROL STAGE 1

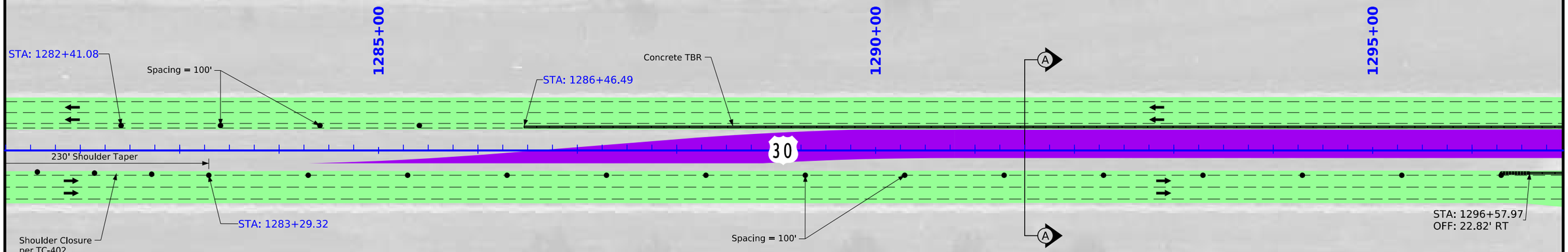
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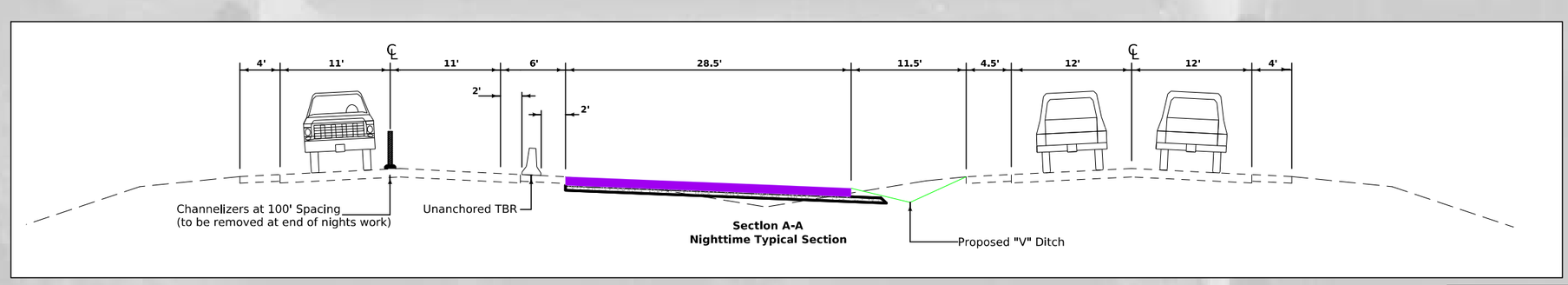
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Section A-A
Daytime Typical Section





Section A-A
Nighttime Typical Section

0 50
FEET

US30 TRAFFIC CONTROL STAGE 1

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **J.9**	

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South Skunk River

1300+00

1305+00

1310+00

Concrete TBR

12.5'

Ramp C

30

STA: 1296+57.97
OFF: 22.82' RT

STA: 1299+65.07
OFF: 22.83' RT

Temporary Bridge

Spacing = 100'

Ramp B

South Skunk River

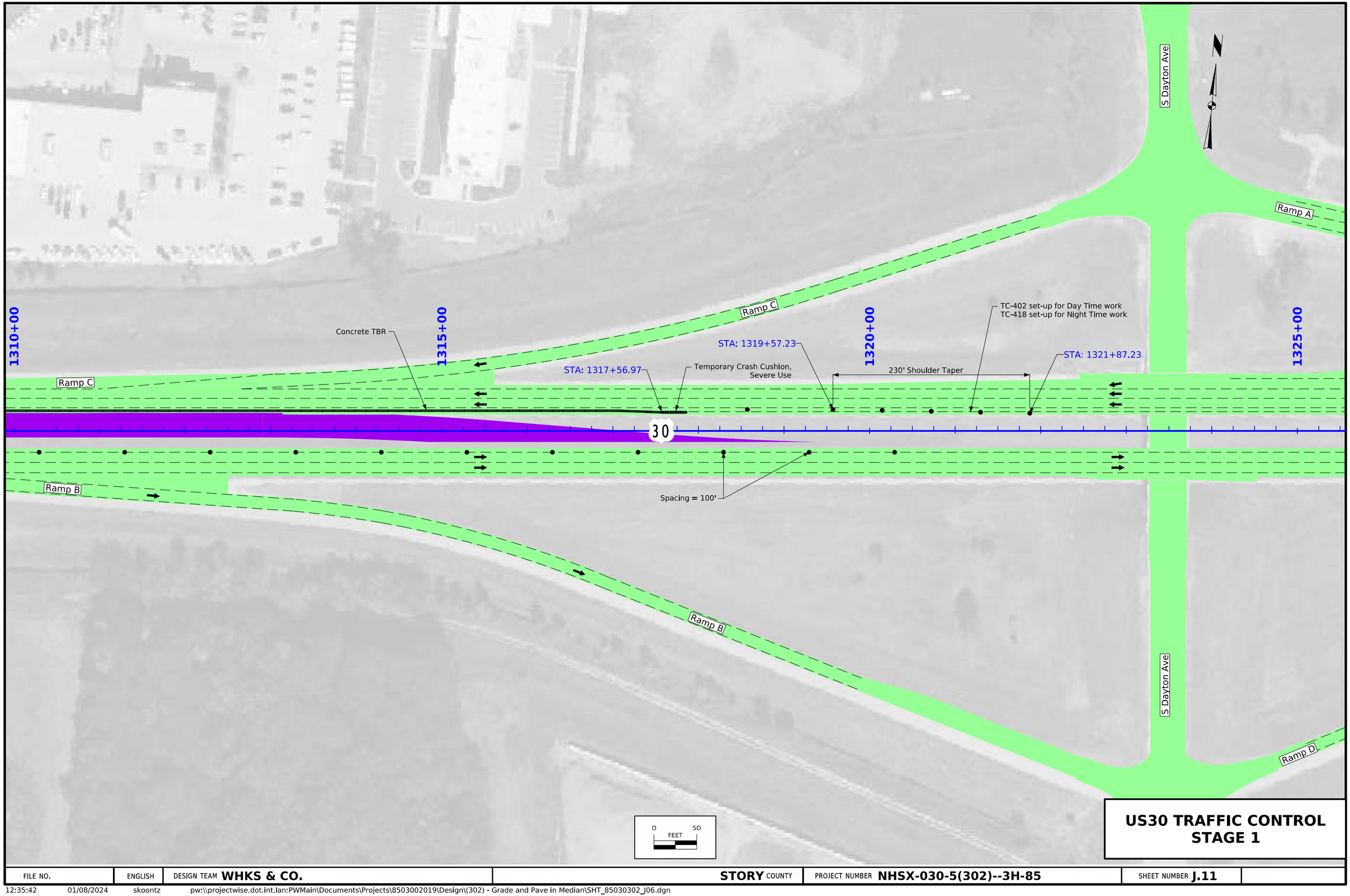
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US30 TRAFFIC CONTROL
STAGE 1

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US30 TRAFFIC CONTROL STAGE 1

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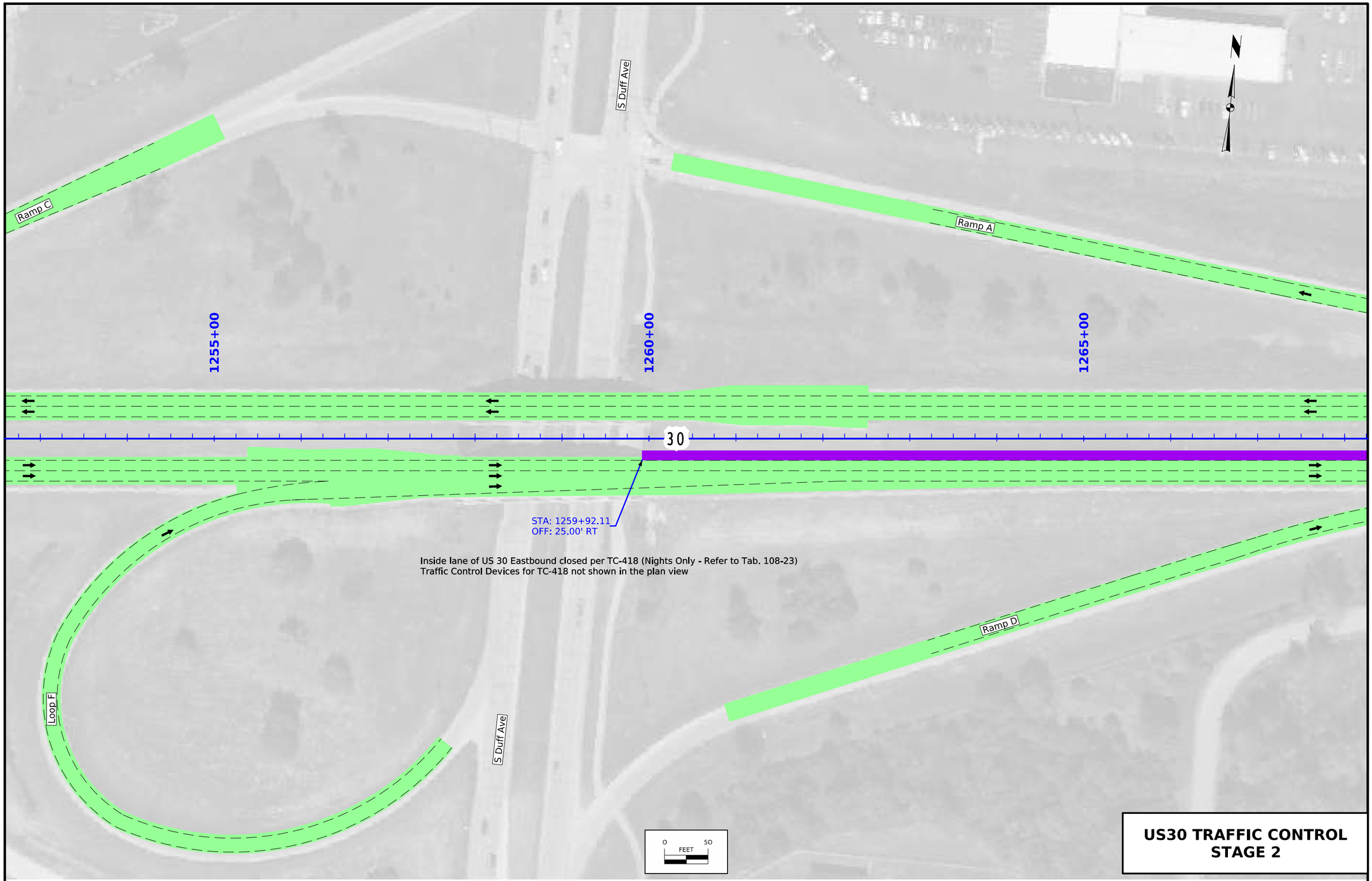


US30 TRAFFIC CONTROL STAGE 1

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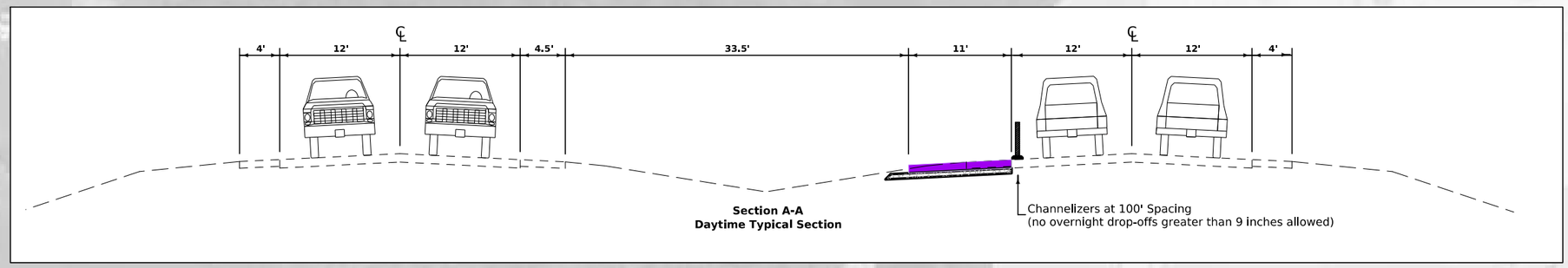


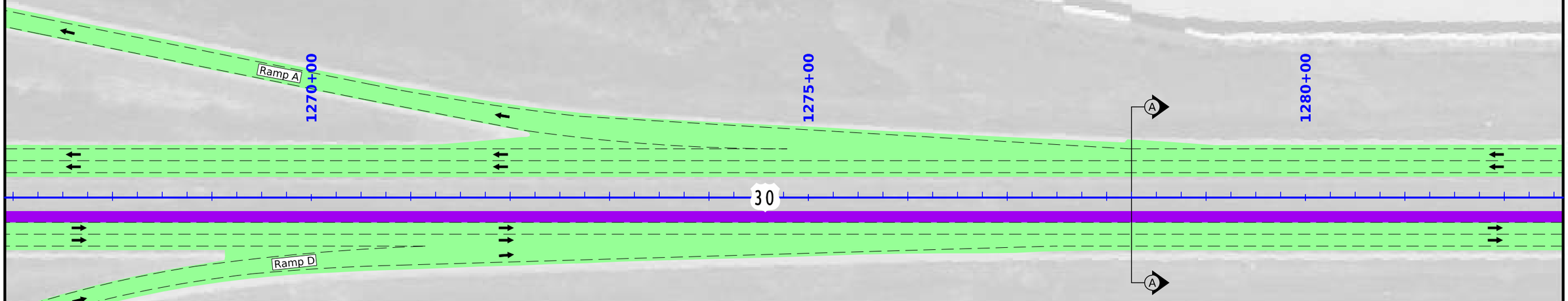
US30 TRAFFIC CONTROL STAGE 2

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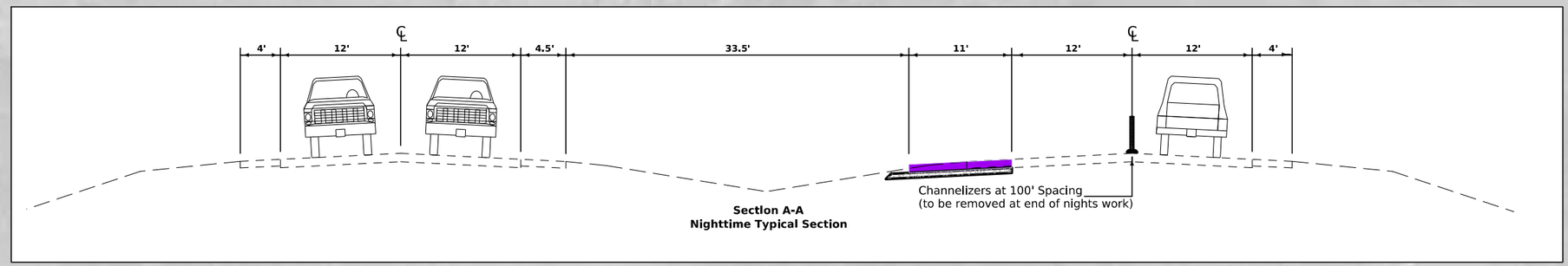
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Inside lane of US 30 Eastbound closed per TC-418 (Nights Only - Refer to Tab. 108-23)
Traffic Control Devices for TC-418 not shown in the plan view



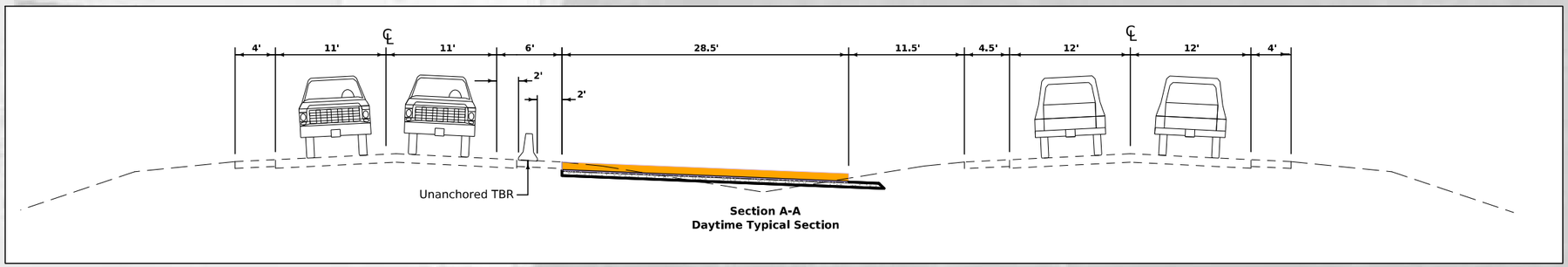
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US30 TRAFFIC CONTROL STAGE 2

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Section A-A
Daytime Typical Section

Portions of TBR shown in Stage 2 is optional if Contractor decides to construct Stage 2 at same time as Stage 1 - Bid Quantities and Tabulations show TBR as in place during Stage 2

1285+00

1290+00

1295+00

STA: 1286+46.49
OFF: 24.50' LT

Optional Concrete TBR
(From Stage 1)

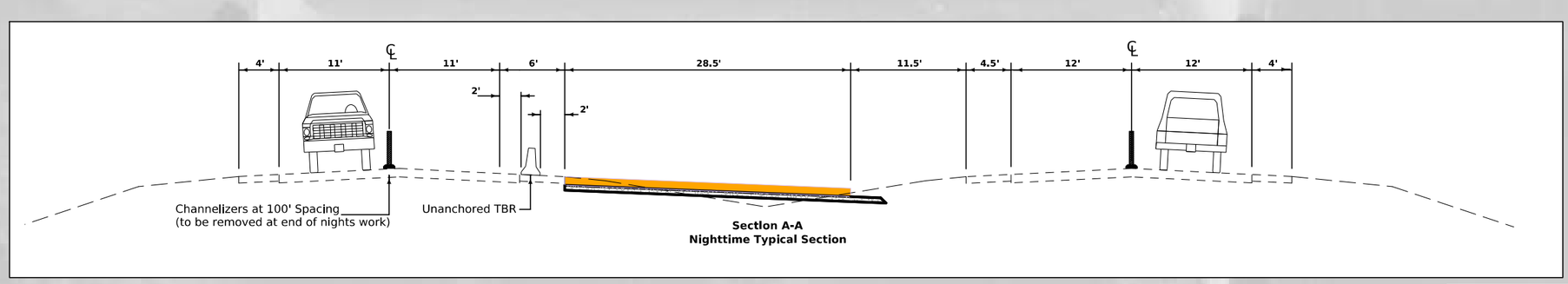
30

A

STA: 1287+78.22
OFF: 25.00' RT

STA: 1296+57.97
OFF: 23.76' RT

Inside lane of US 30 Eastbound closed per TC-418 (Nights Only - Refer to Tab. 108-23)
Traffic Control Devices for TC-418 not shown in the plan view



Section A-A
Nighttime Typical Section

0 50
FEET

US30 TRAFFIC CONTROL STAGE 2

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **J.15**	

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South Skunk River

Portions of TBR shown in Stage 2 is optional
if Contractor decides to construct Stage 2 at
same time as Stage 1 - Bid Quantities and
Tabulations show TBR as in place during Stage 2

1300+00

1305+00

1310+00

Optional Concrete TBR
(From Stage 1)

Ramp C

12.5'

30

STA: 1296+57.97
OFF: 23.76' RT

STA: 1299+65.07
OFF: 22.83' RT

Temporary Bridge

Ramp B

Inside lane of US 30 Eastbound closed per TC-418 (Nights Only - Refer to Tab. 108-23)
Traffic Control Devices for TC-418 not shown in the plan view

South Skunk River

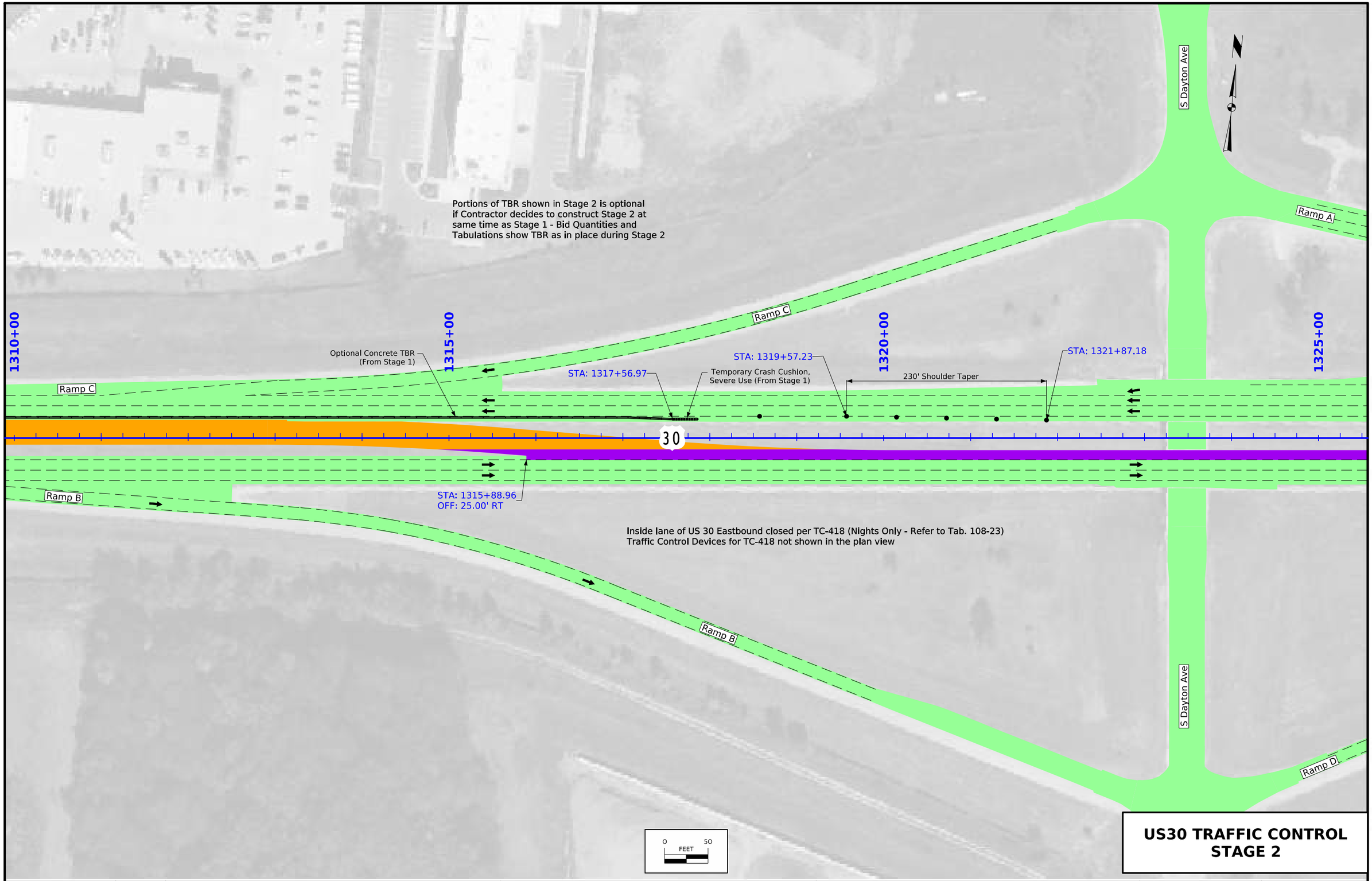
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US30 TRAFFIC CONTROL STAGE 2

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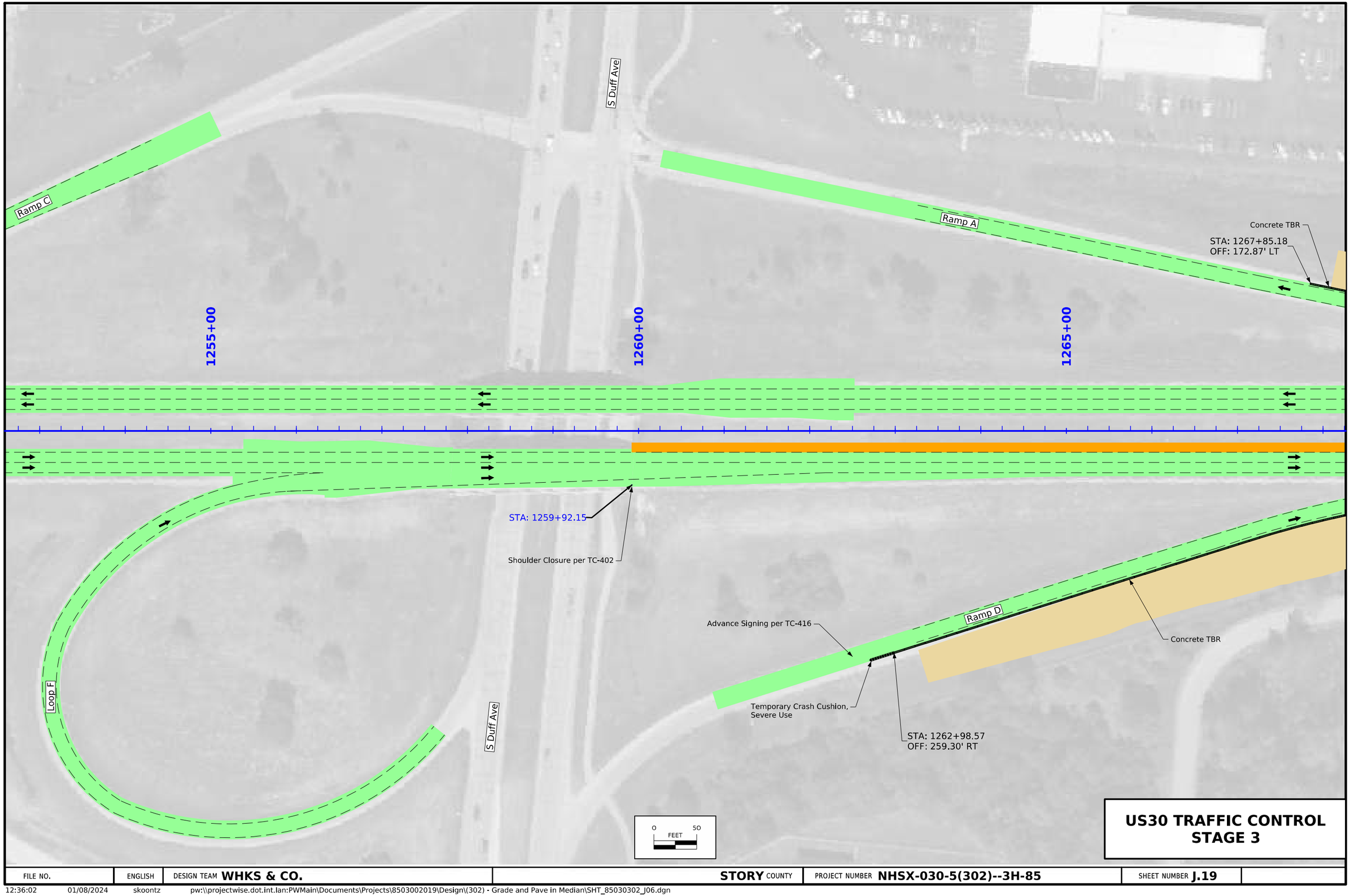


US30 TRAFFIC CONTROL STAGE 2

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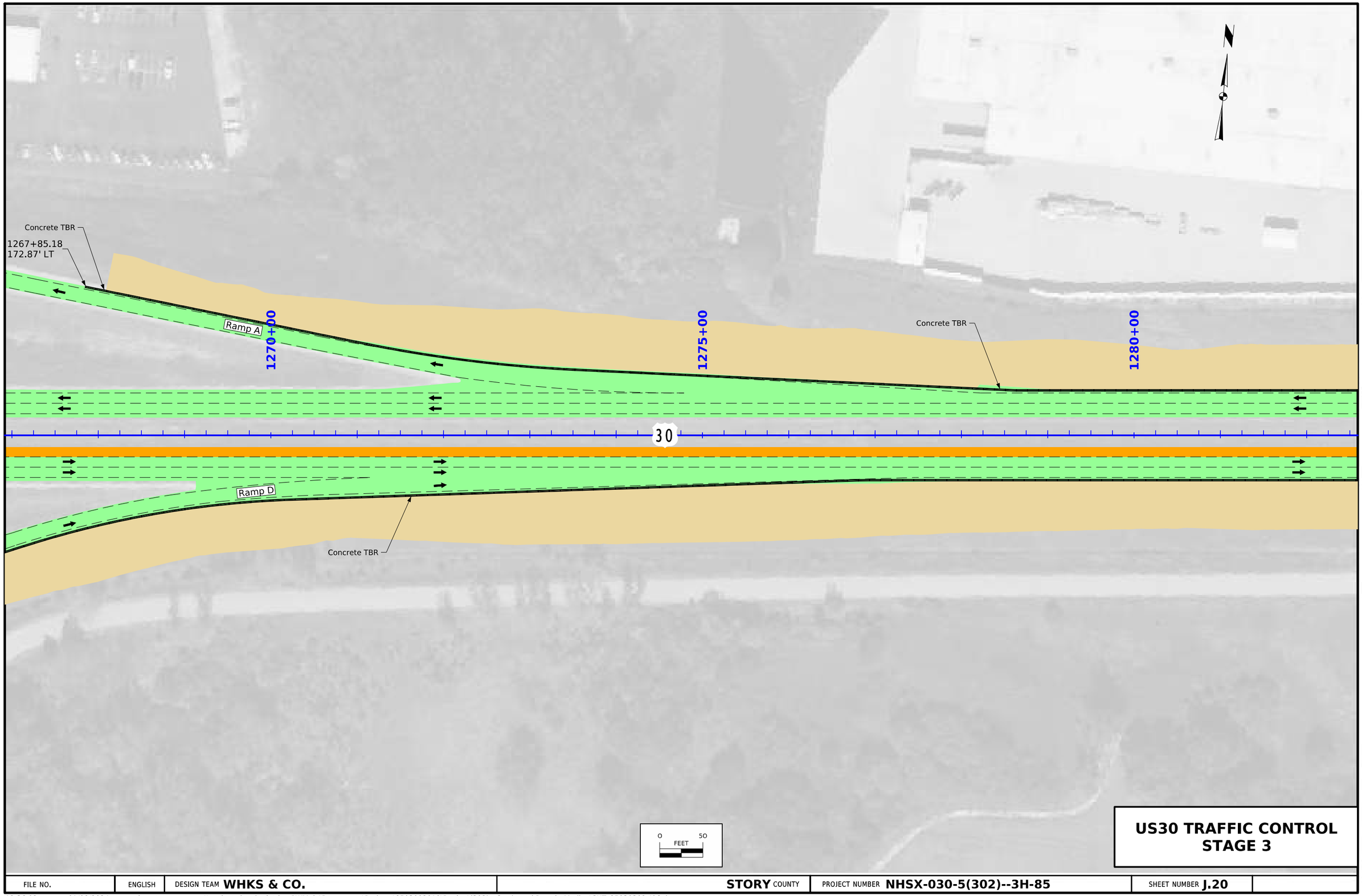
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FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **J.19**	

12:36:02 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_J06.dgn

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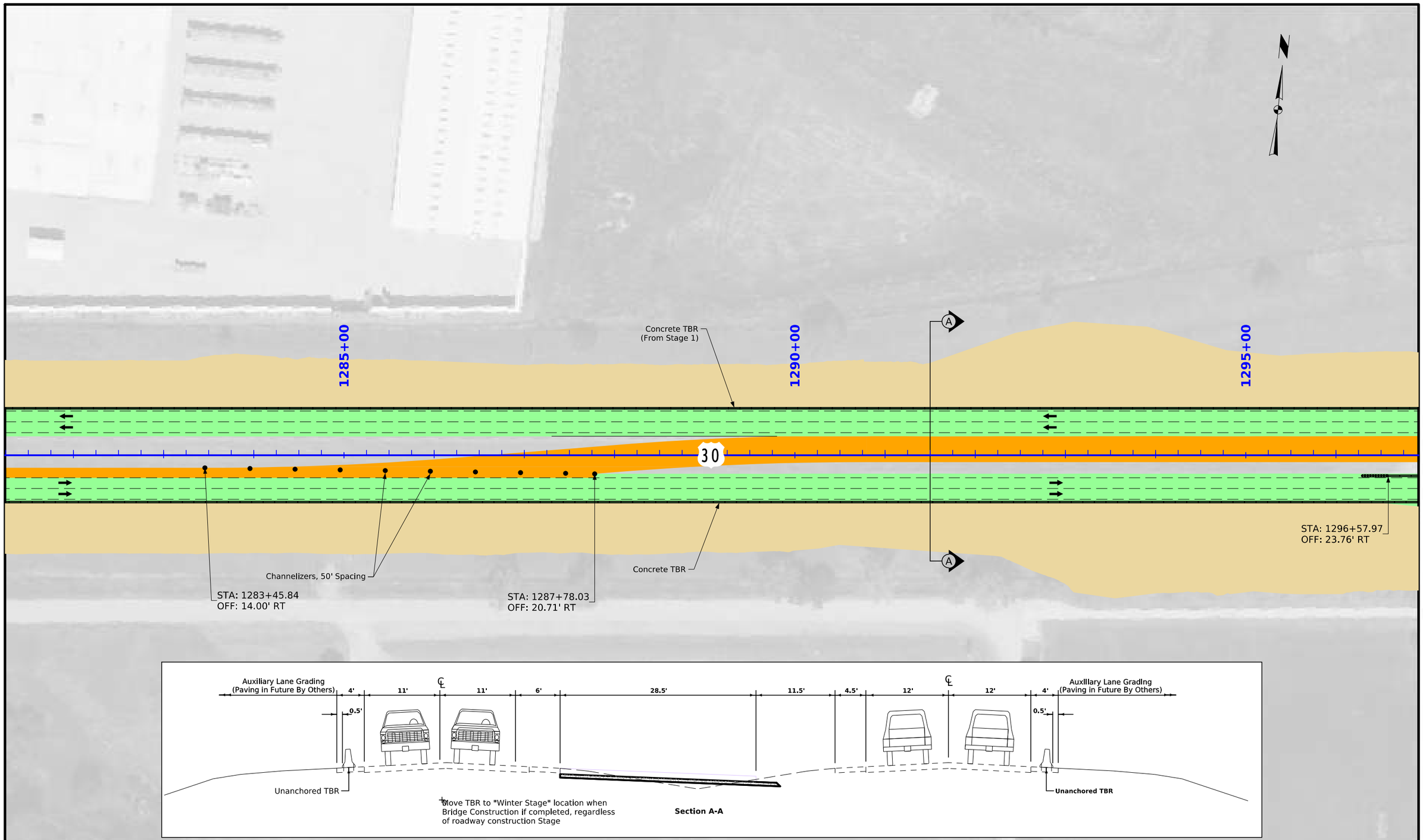


US30 TRAFFIC CONTROL
STAGE 3

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **J.20**	

12:36:02 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_J06.dgn

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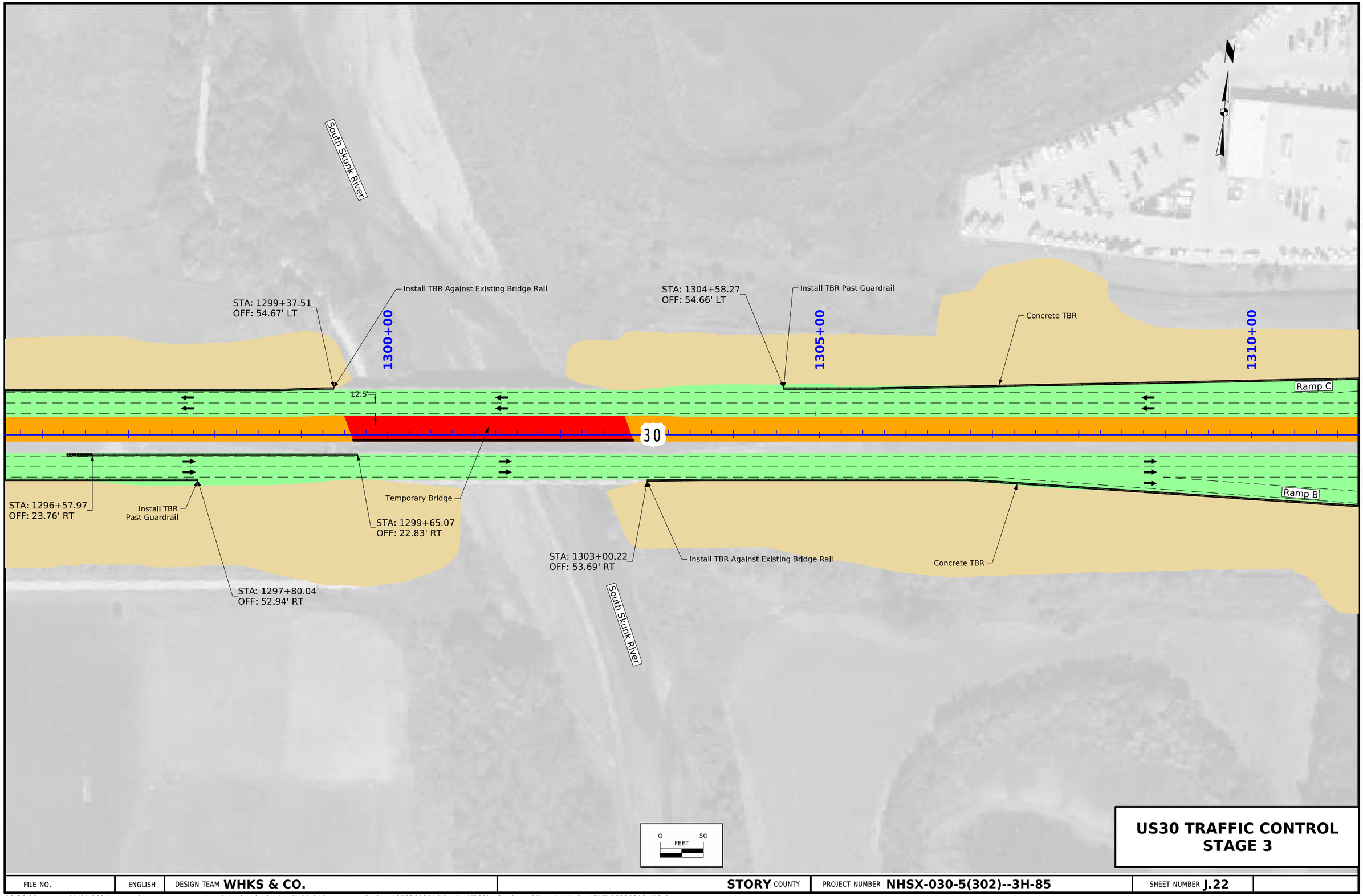


US30 TRAFFIC CONTROL STAGE 3

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER J.21

12:36:03 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_J06.dgn

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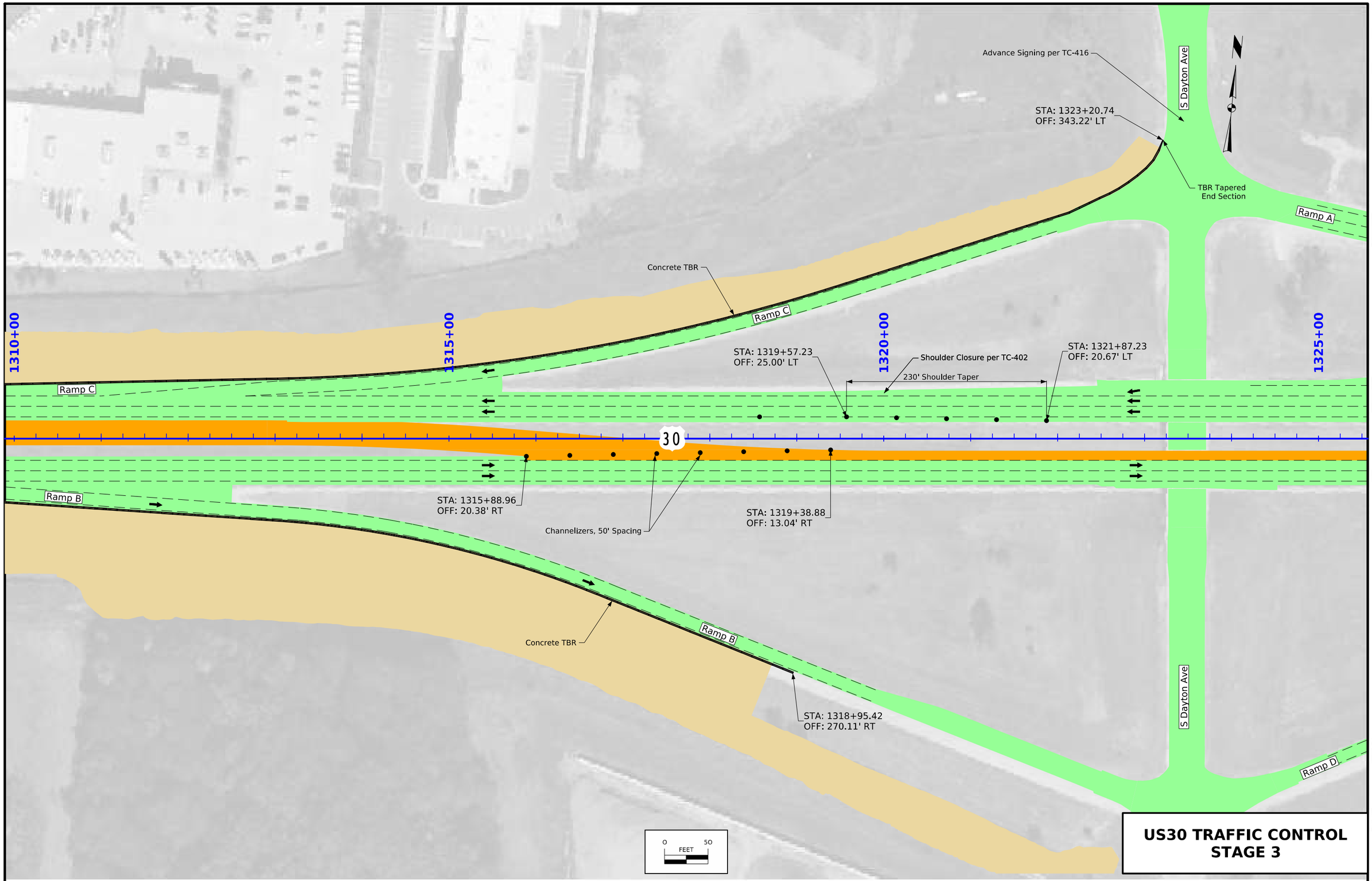


US30 TRAFFIC CONTROL STAGE 3

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER J.22	

12:36:05 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_J06.dgn

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FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER J.23

12:36:06 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_J06.dgn

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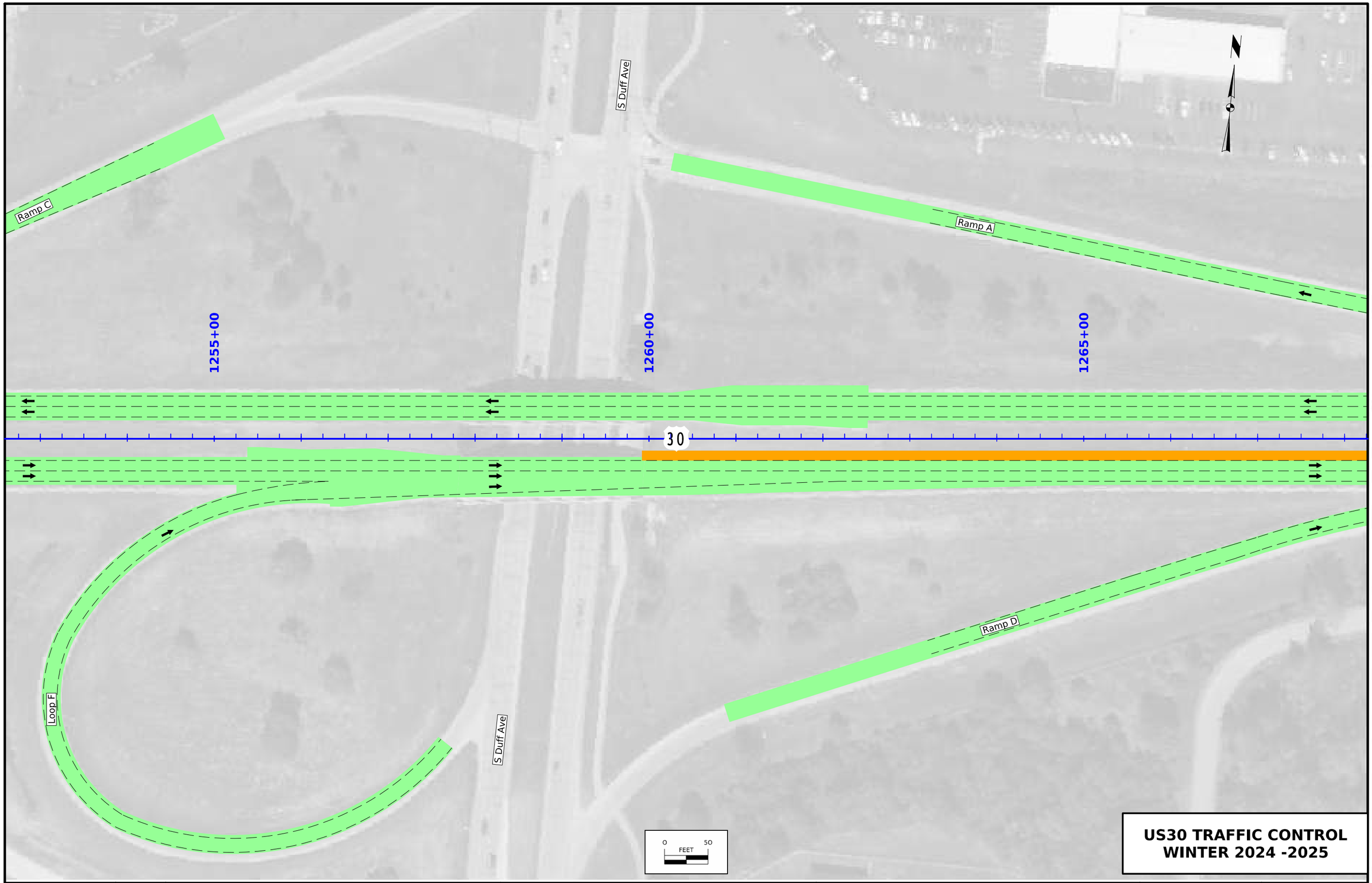


US30 TRAFFIC CONTROL STAGE 3

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **J.24**	

12:36:07 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_J06.dgn

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FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **J.25**	

12:36:08 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_J06.dgn

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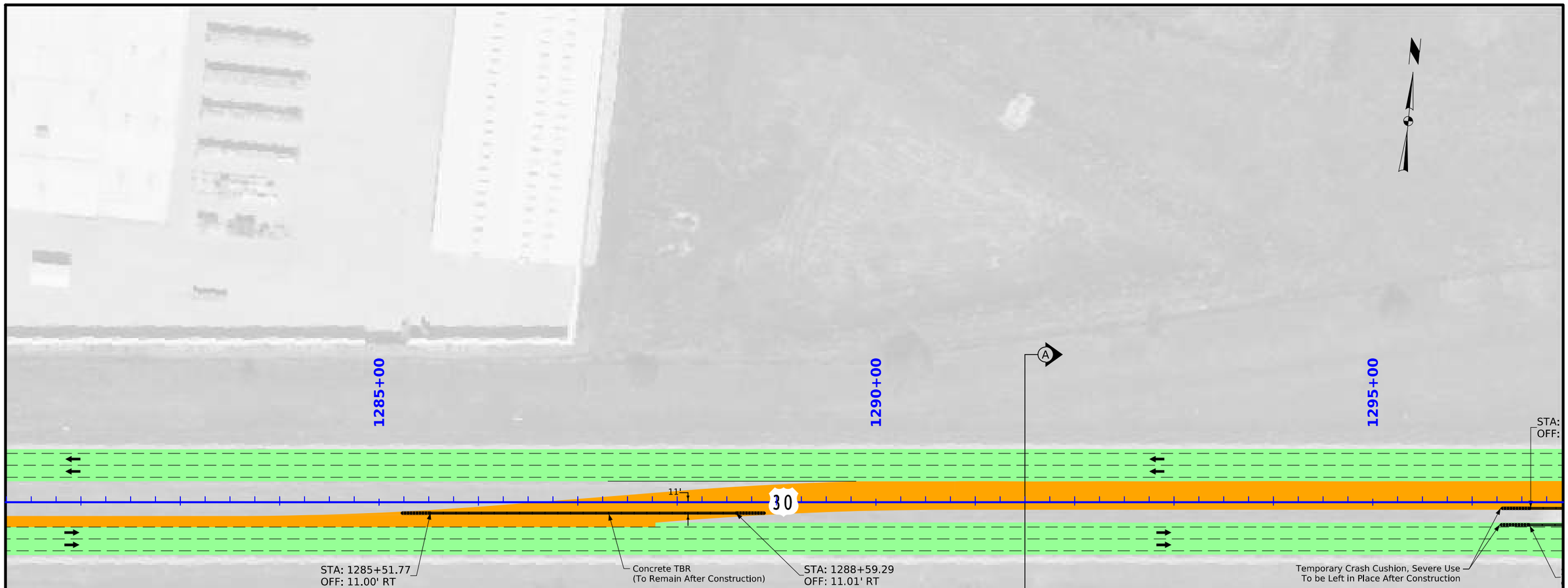


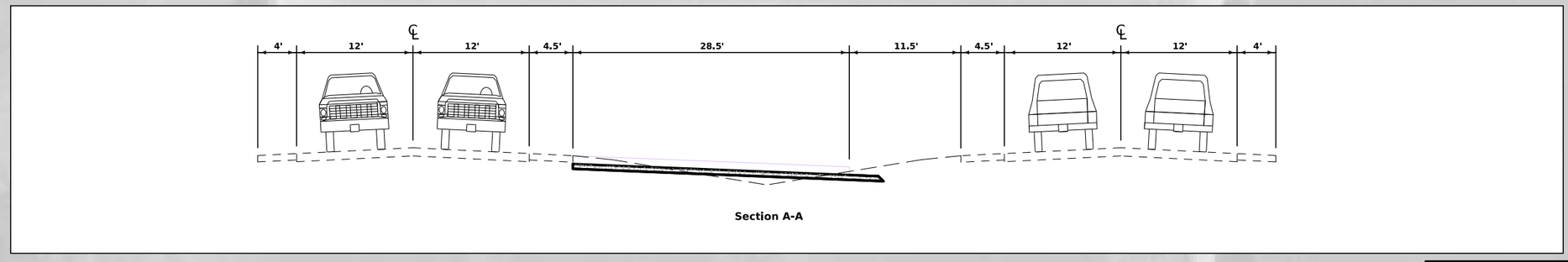
US30 TRAFFIC CONTROL
WINTER 2024 -2025

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **J.26**	

12:36:09 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_J06.dgn

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Section A-A

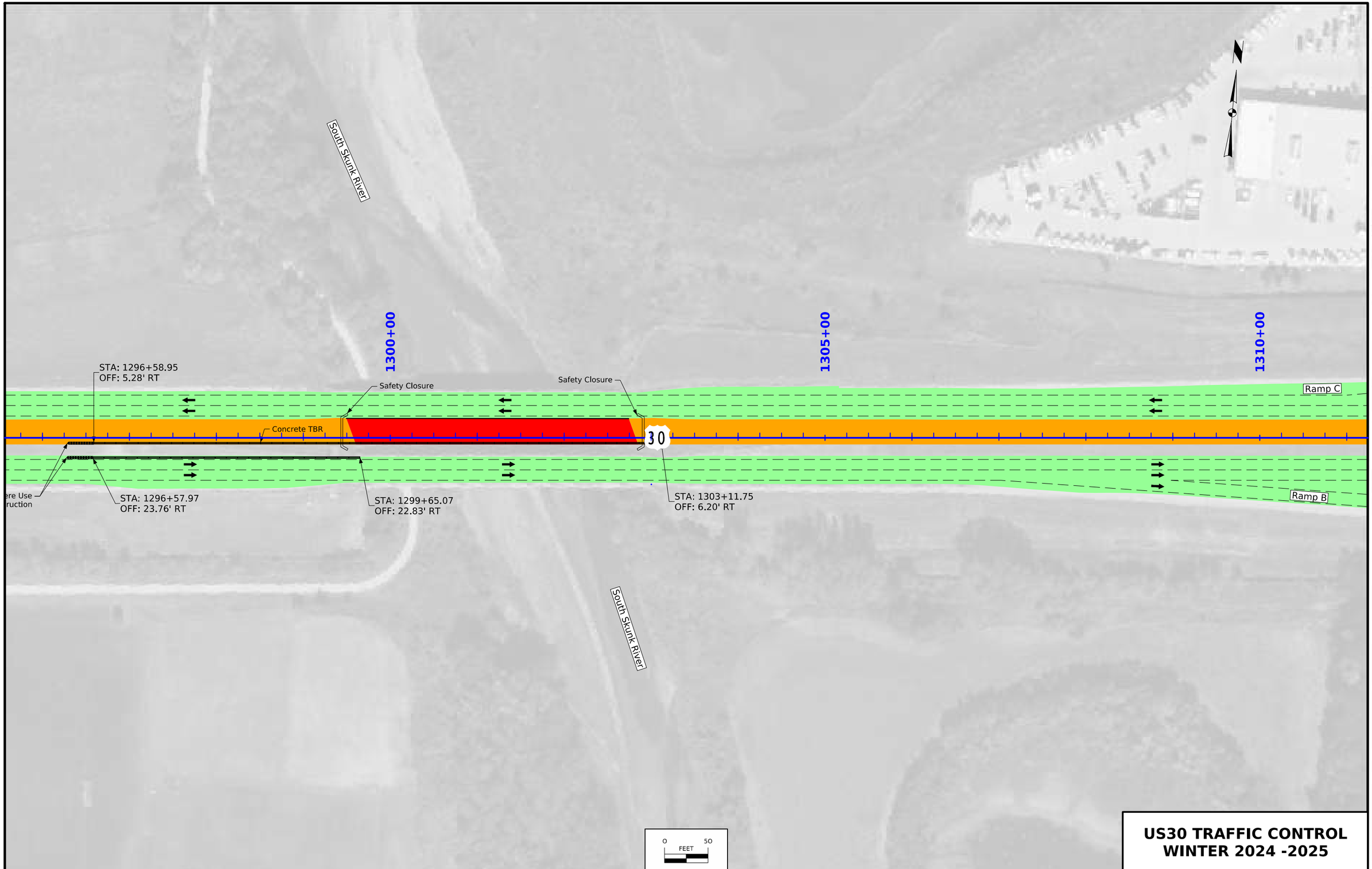
0 50
FEET

US30 TRAFFIC CONTROL WINTER 2024 -2025

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **J.27**

12:36:10 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_J06.dgn

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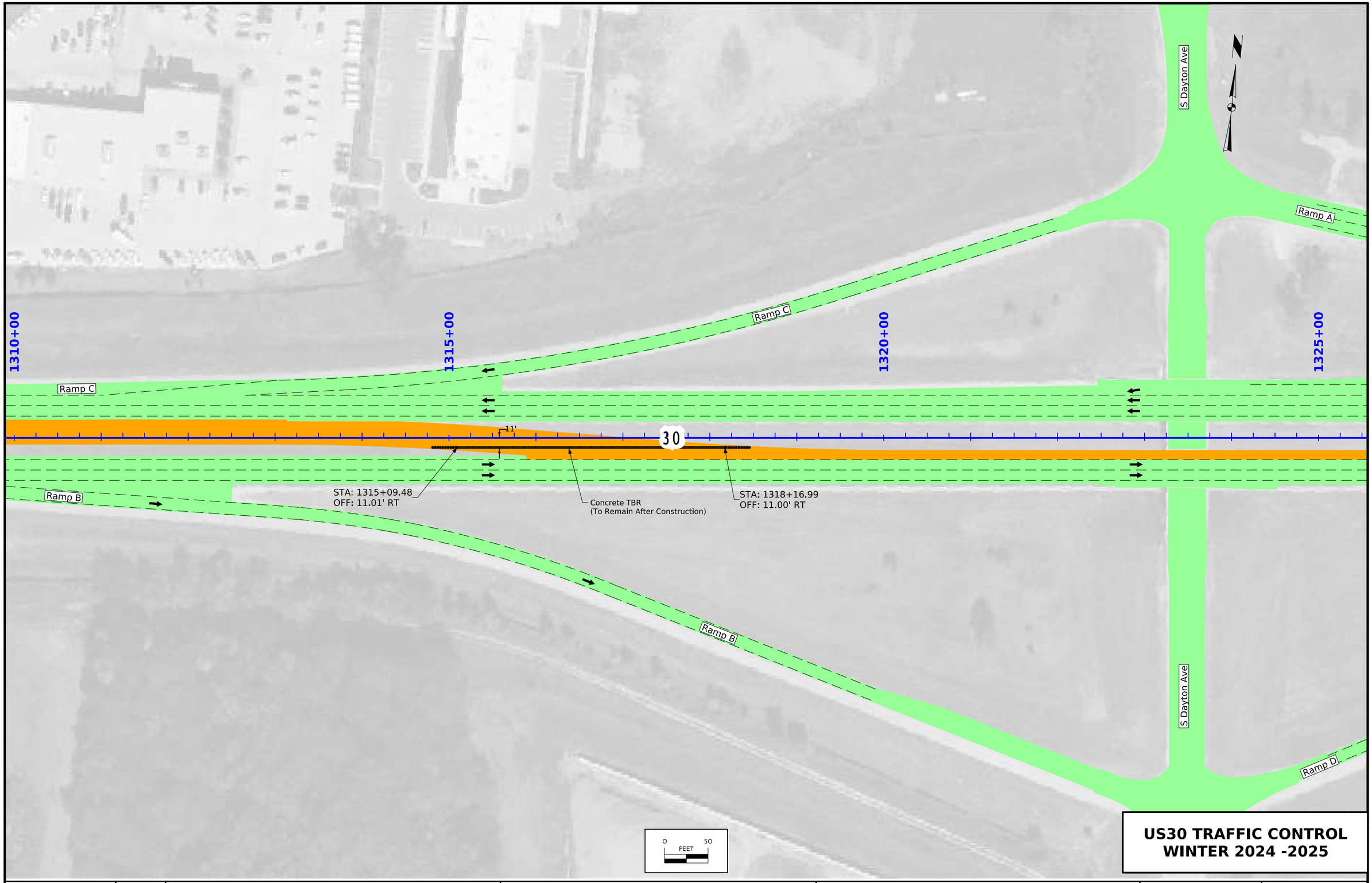


US30 TRAFFIC CONTROL
WINTER 2024 -2025

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **J.28**	

12:36:11 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_J06.dgn

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US30 TRAFFIC CONTROL
WINTER 2024 -2025

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **J.29**	

12:36:12 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_J06.dgn

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US30 TRAFFIC CONTROL
WINTER 2024 -2025

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **J.30**	

12:36:12 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_J06.dgn

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Refer to "Developing Water Trails in Iowa - Practical Guidelines and Templates for Planning, Site Design, Signage, and Construction in the State of Iowa" for additional information on the fabrication and installation of this sign.

https://www.iowadnr.gov/things-to-do/canoeing-kayaking/water-trail-development

River Valley Park #2 Access

Sign Shall Face Parking Lot from Access



Install the "Danger / No Thru Traffic" sign within the project zone, preferably on the bridge deck in the center of the bridge on upstream and downstream sides (2 total). However, if this is not possible, place within the right of way on the banks of the river (4 signs - 2 facing upstream, and 2 facing downstream) and keep clear of brush so river users can view them from the water.

For Placement at the Construction Site on Bridge or on Both Sides of the Riverbank



Refer to "Developing Water Trails in Iowa - Practical Guidelines and Templates for Planning, Site Design, Signage, and Construction in the State of Iowa" for additional information on the fabrication and installation of this sign.

https://www.iowadnr.gov/things-to-do/canoeing-kayaking/water-trail-development

SE 16th Street Access #87

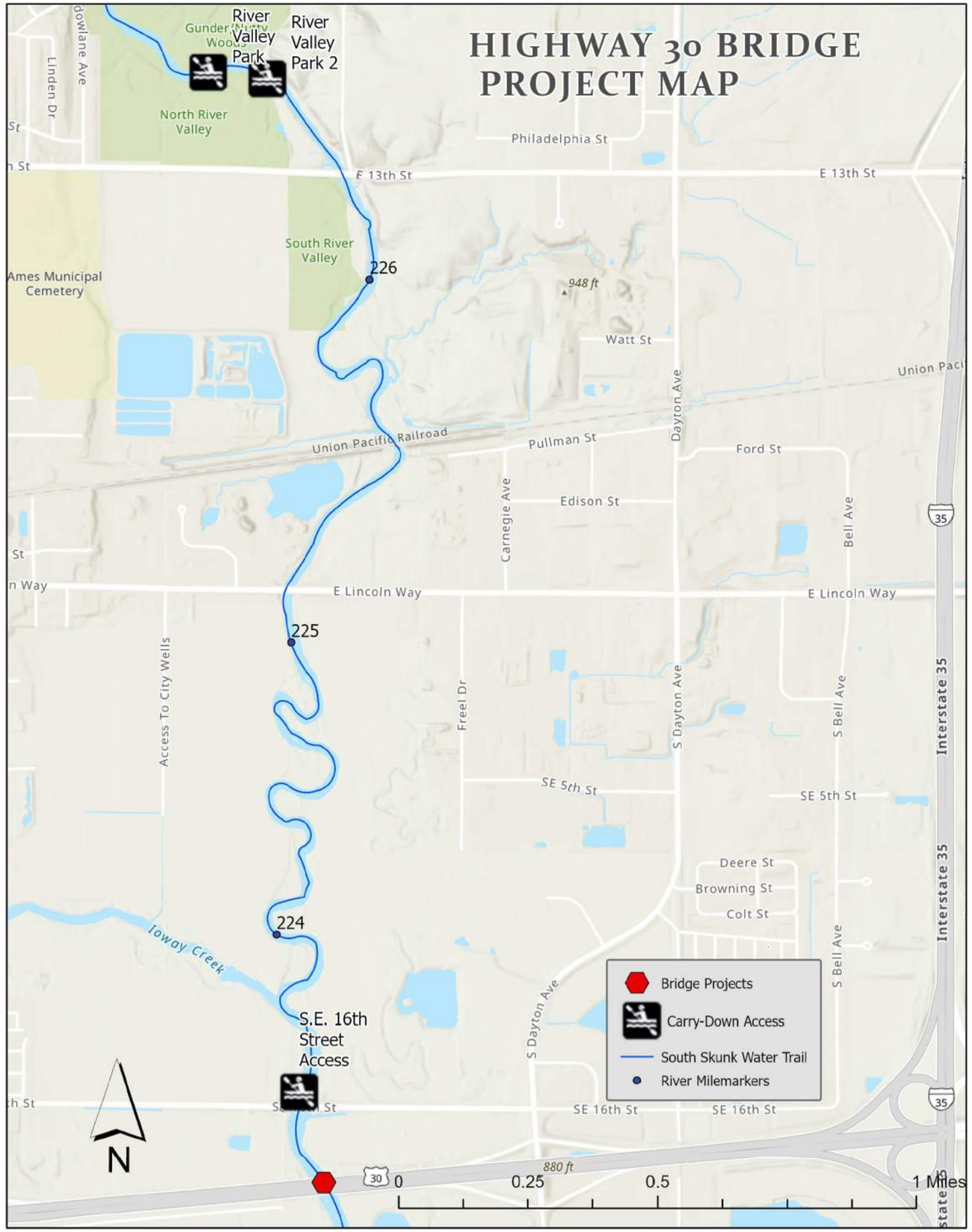
Sign Shall Face Parking Lot from Access

Water Trail Sign Details

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **J.31**

12:40:25 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_J26.dgn

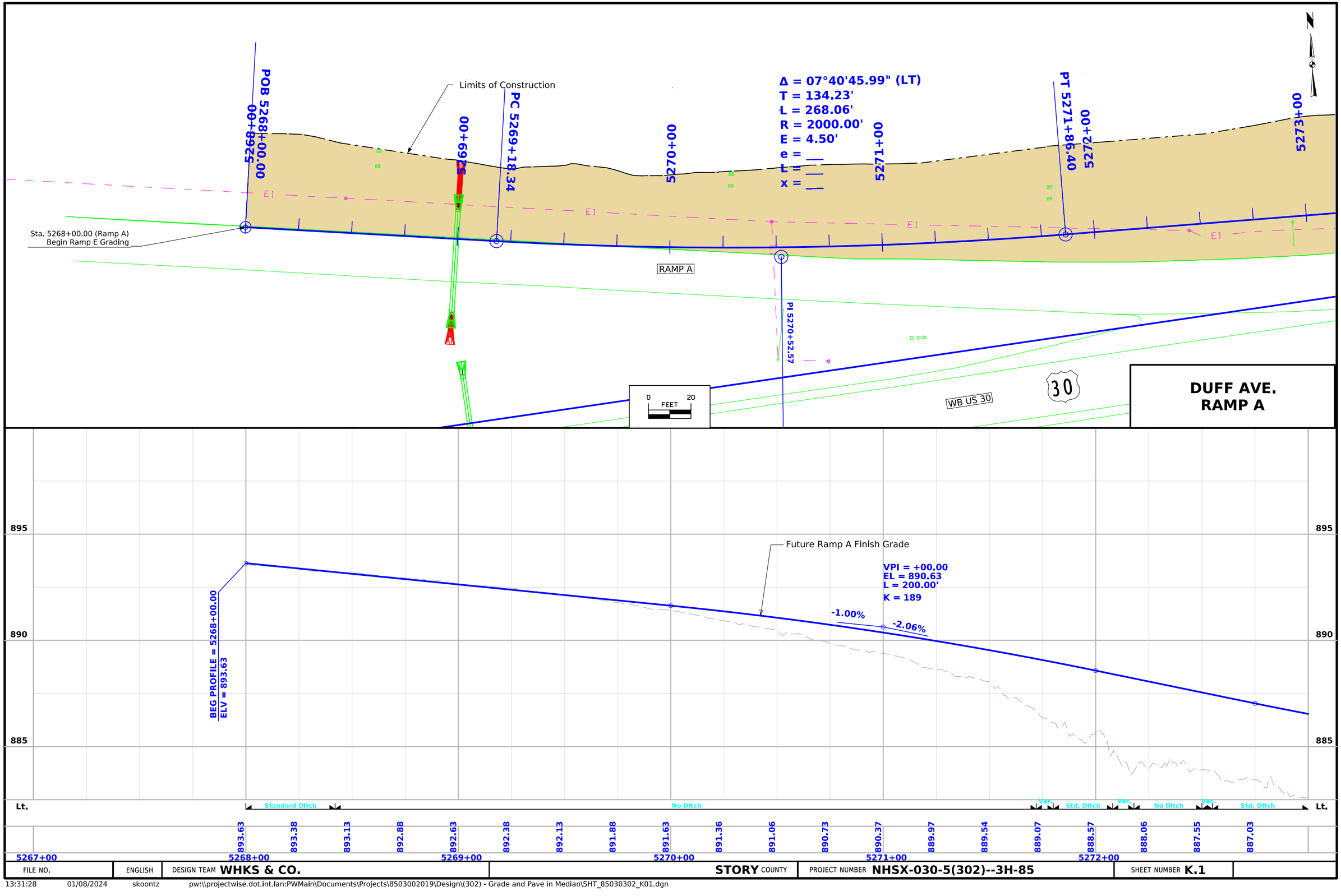
HIGHWAY 30 BRIDGE PROJECT MAP



Water Trail Sign Details

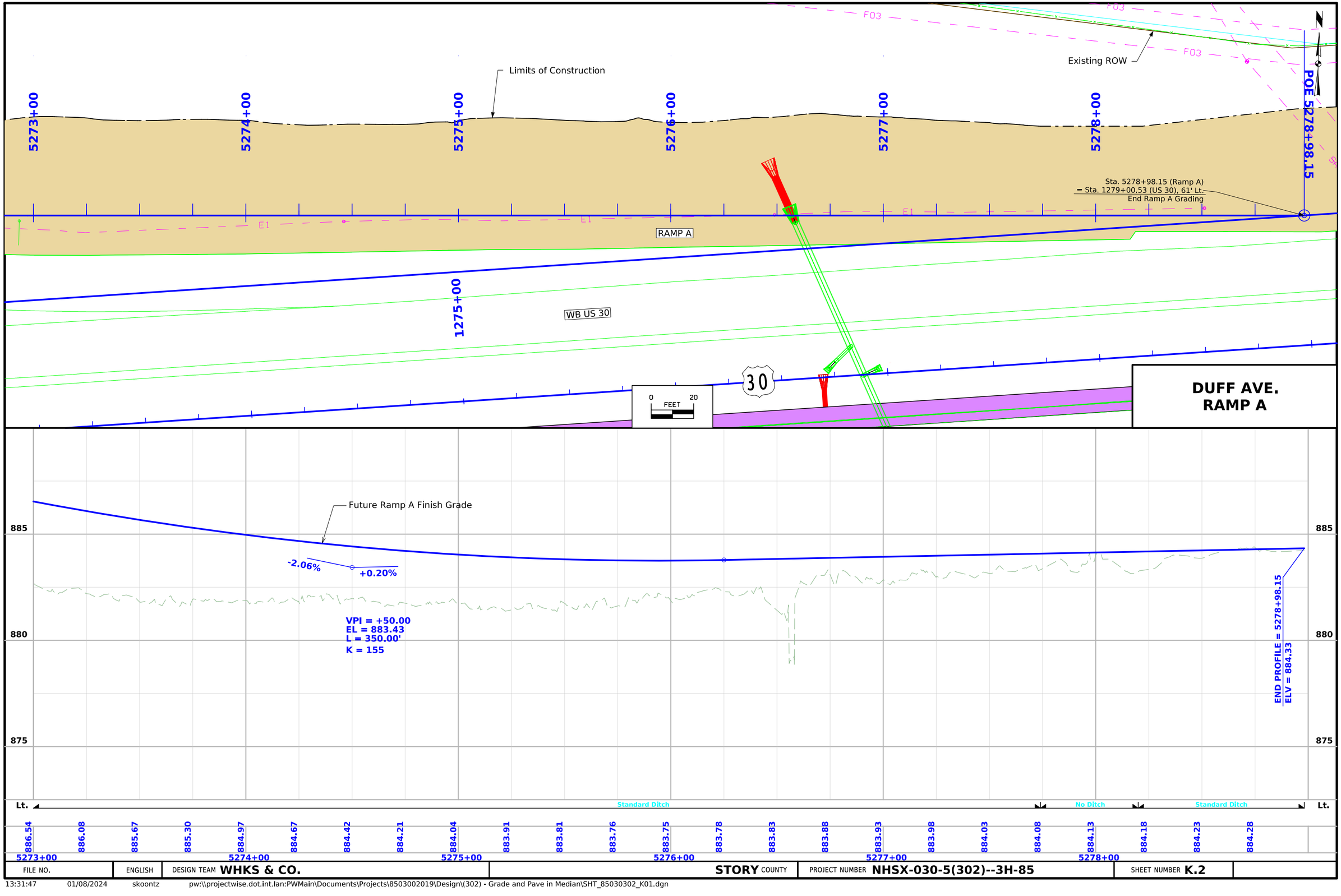
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER J.32

12:40:27 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_J26.dgn



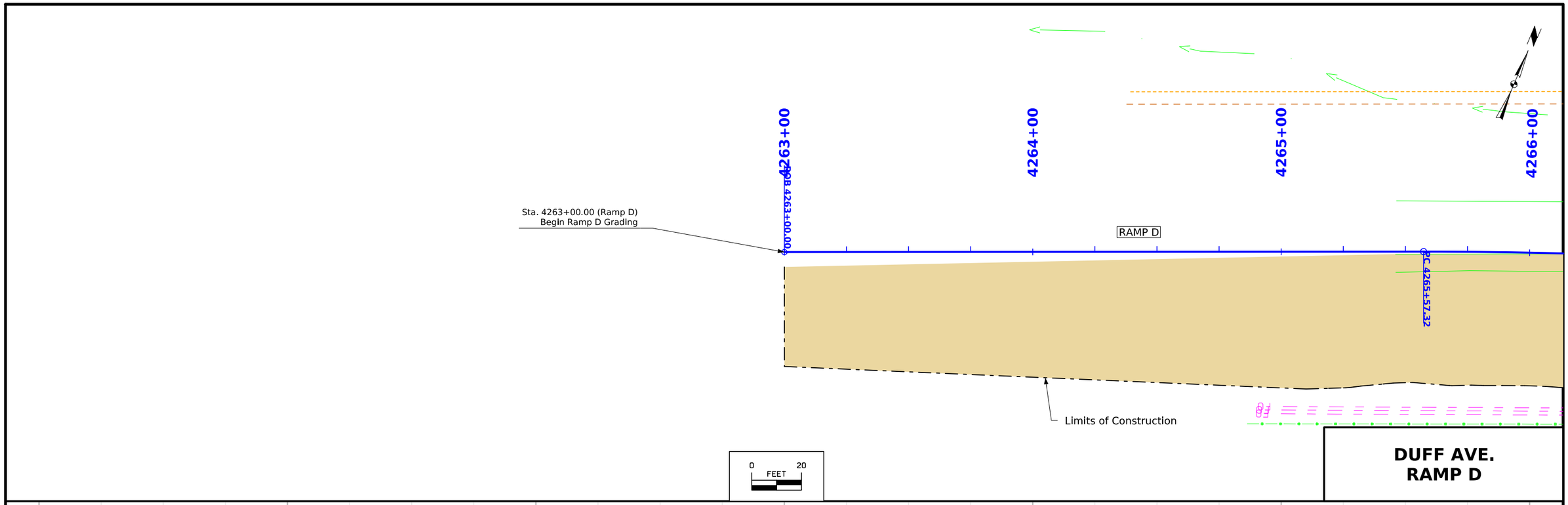
FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **K.1**

13:31:28 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_K01.dgn

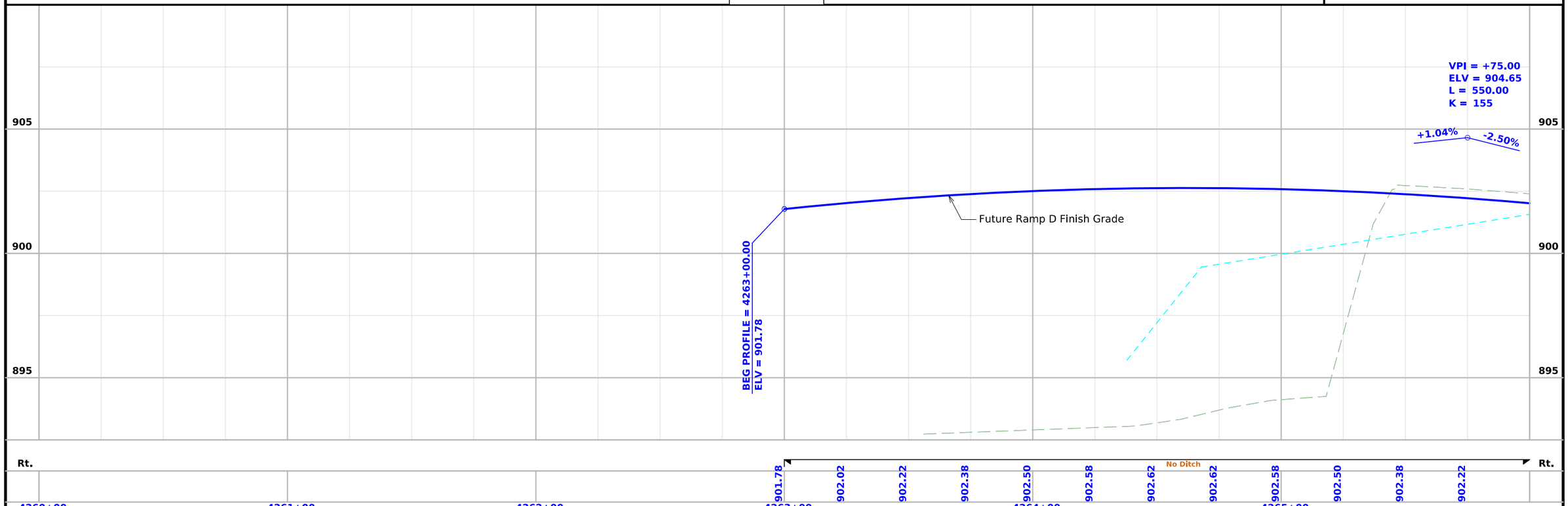


FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **K.2**

13:31:47 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_K01.dgn

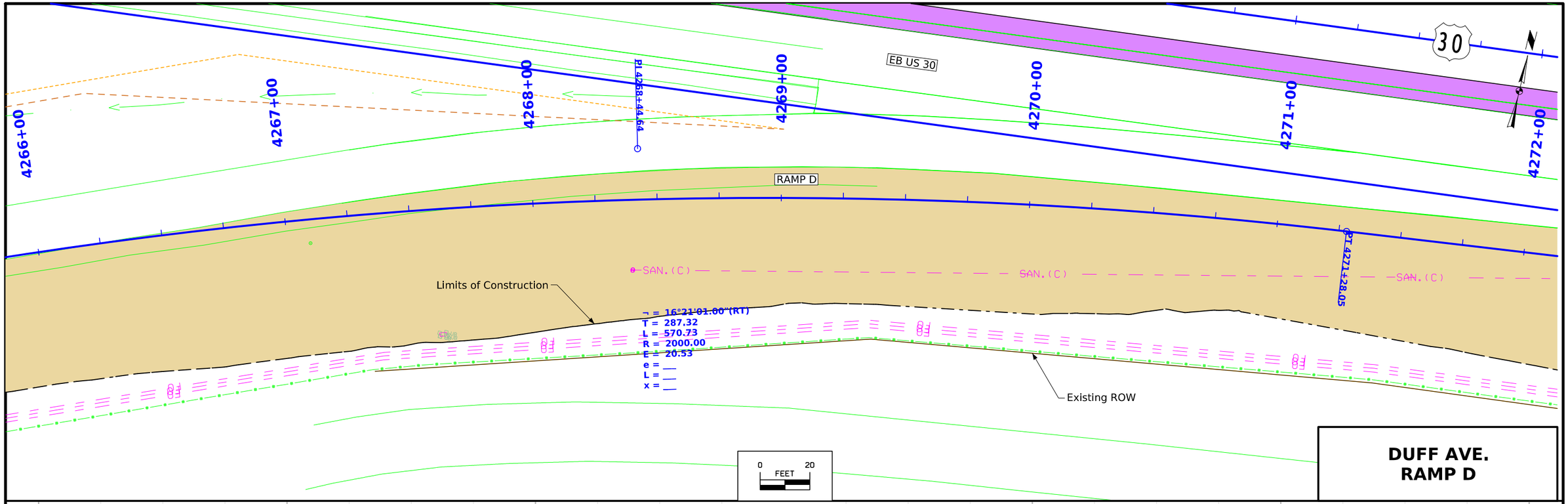


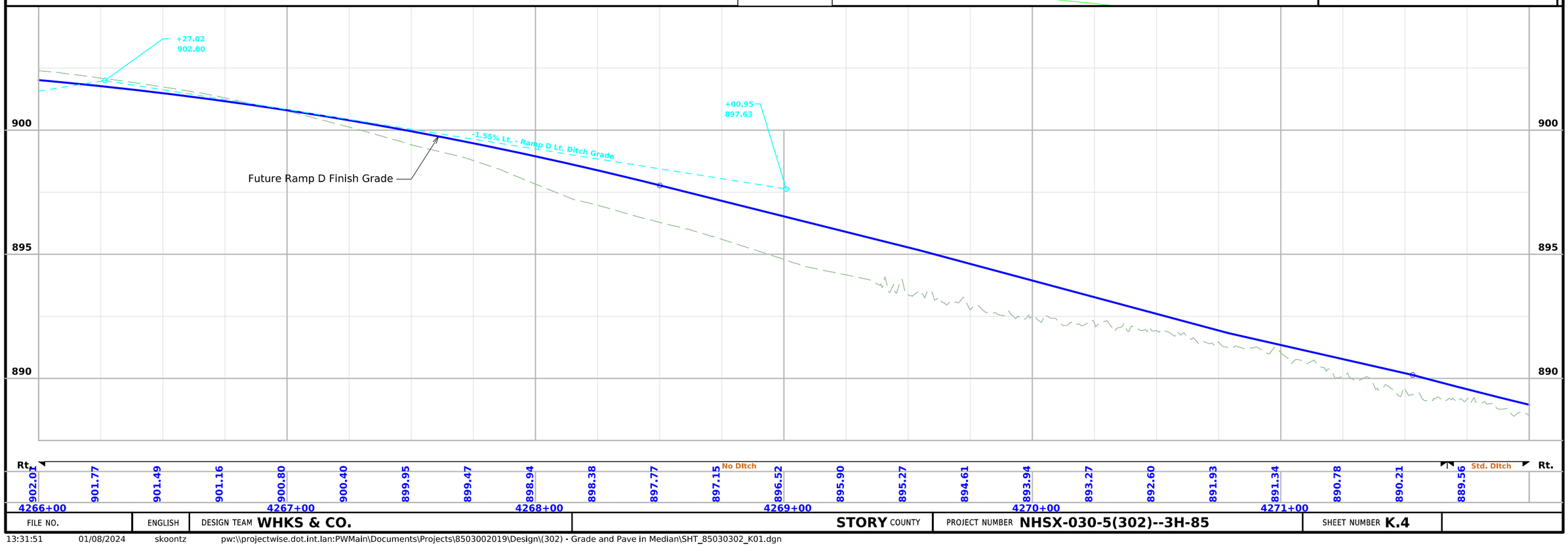
DUFF AVE.
RAMP D



FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **K.3**

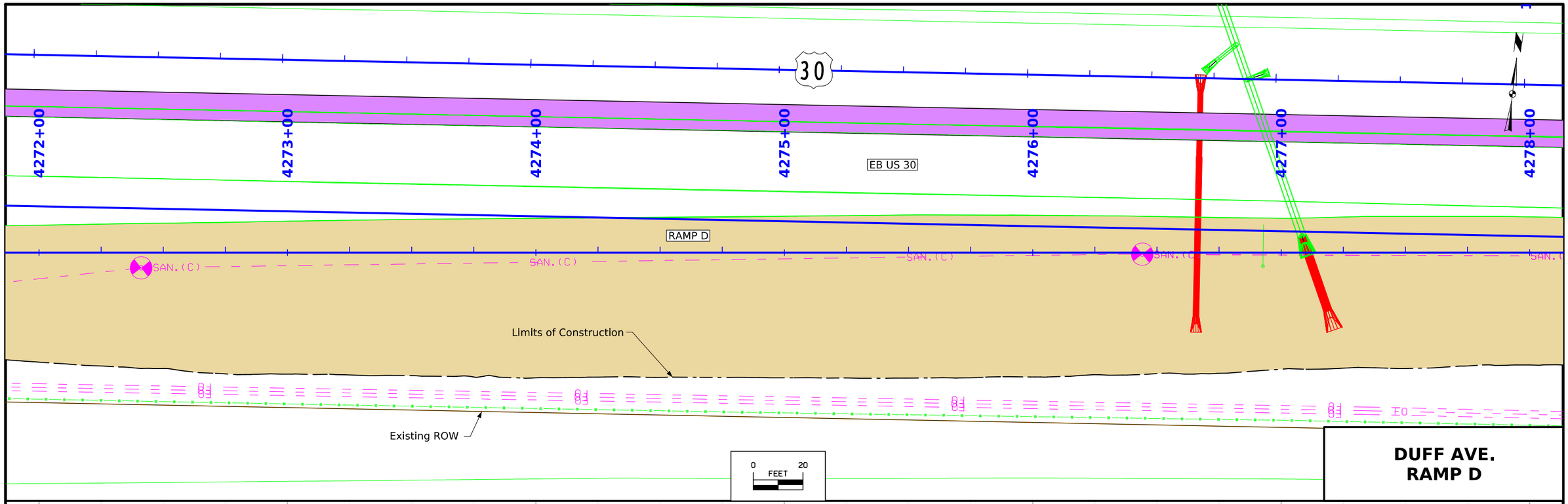
13:31:49 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_K01.dgn





FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **K.4**

13:31:51 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_K01.dgn



FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **K.5**

13:31:52 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_K01.dgn

WB US 30

EB US 30

RAMP D

4278+00 4279+00 4280+00 4281+00

POE 4281+28.52

Sta. 4281+28.52 (Ramp D)
= Sta. 1281+31.89 (US 30), 61' Rt.
End Ramp D Grading

SAN.(C)

Limits of Construction

Existing ROW

0 FEET 20

**DUFF AVE.
RAMP D**

Future Ramp D Finish Grade

END PROFILE = 4281+28.52
ELV = 884.33

885
880
875

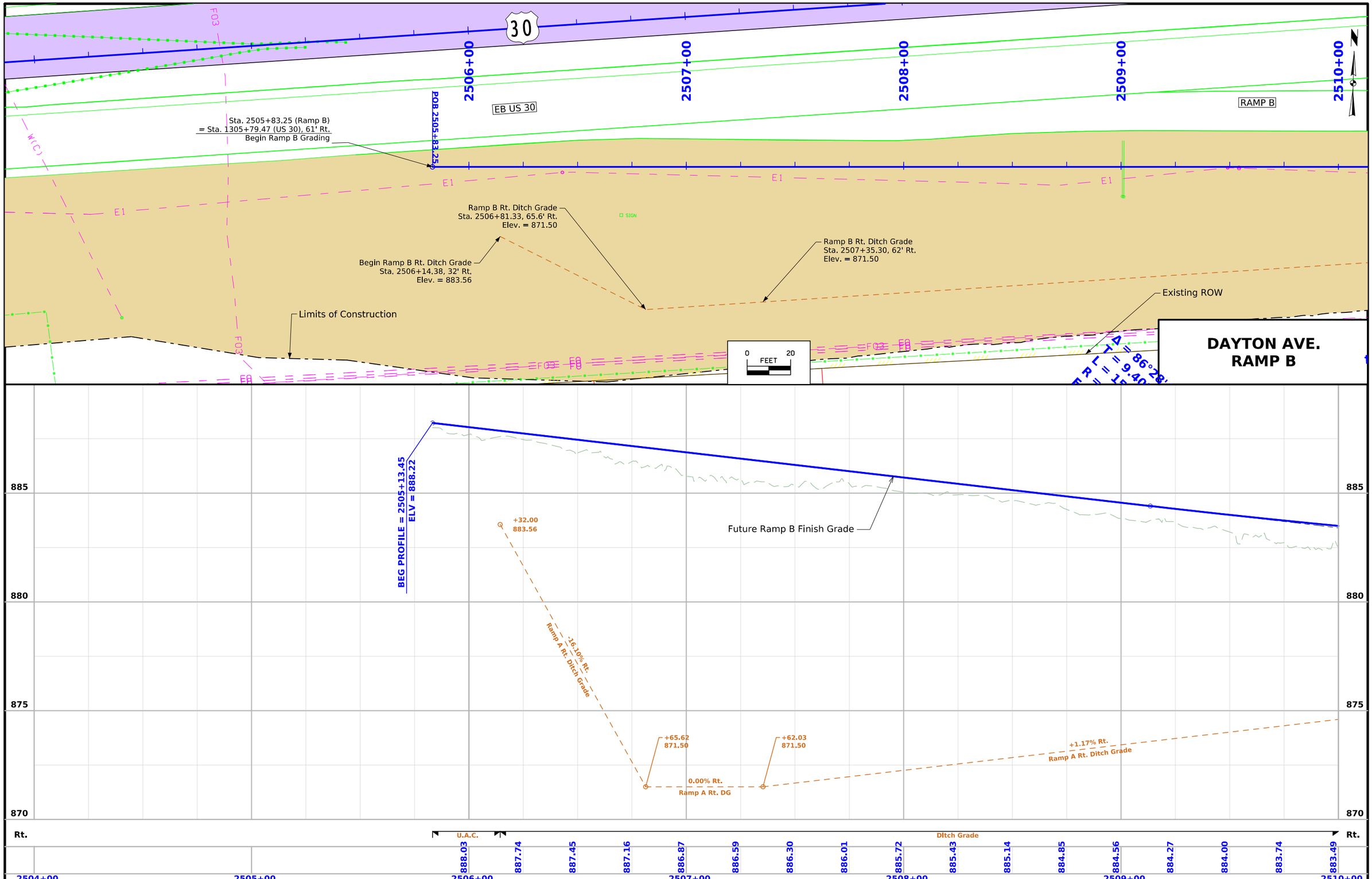
Rt. Standard Ditch Rt.

884.13 884.14 884.16 884.17 884.19 884.20 884.22 884.23 884.25 884.26 884.28 884.29 884.31 884.32

4278+00 4279+00 4280+00 4281+00

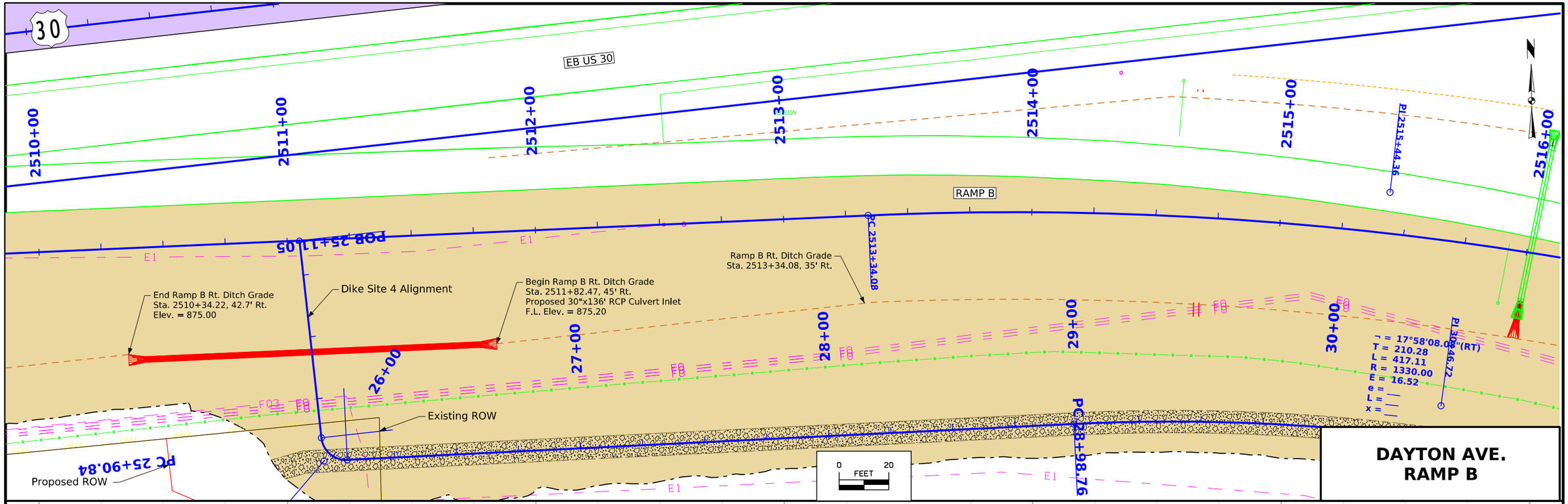
FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **K.6**

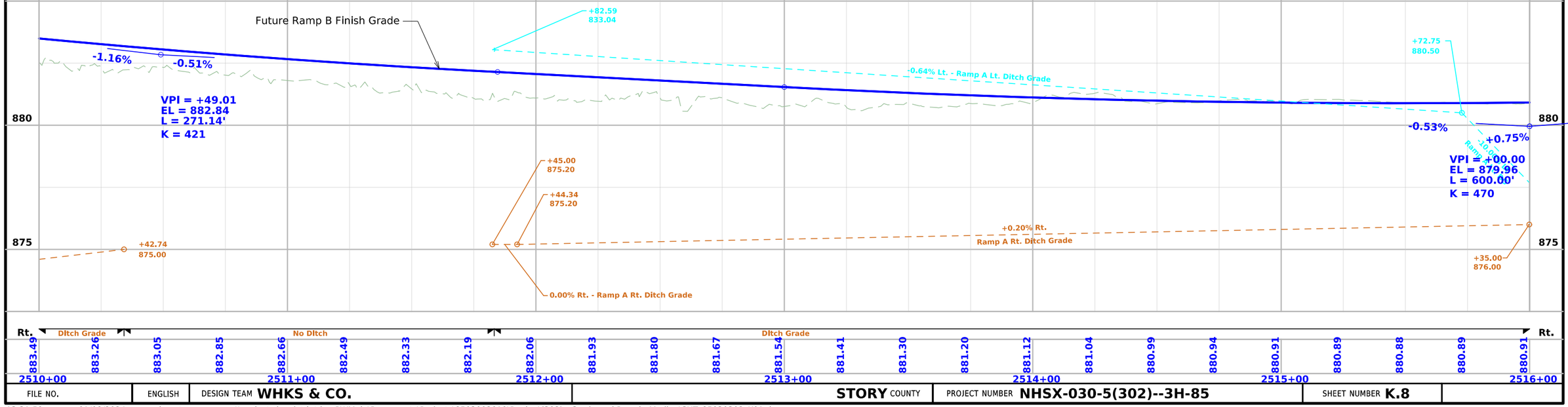
13:31:54 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_K01.dgn



FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER K.7

13:31:57 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_K01.dgn





FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER K.8

13:31:59 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_K01.dgn

2516+00
2517+00
2518+00
2519+00
RAMP B
PT 2517+51.19
Sta. 2519+00.00 (Ramp B)
End Ramp B Grading
End Ramp B Rt. Ditch Grade
Sta. 2519+00.00, 35' Rt.
F.L. Elev. = 878.00
31+00
32+00
33+00
34+00
35+00
36+00
Dike Site 4 Alignment
PT 33+91.
Limits of Construction
0 20 FEET
DAYTON AVE.
RAMP B
885
880
875
Future Ramp B Finish Grade
+0.75%
END PROFILE = 2519+00.00
ELV = 882.21
+01.92
877.48
+0.68% Rt.
Ramp A Rt. Ditch Grade
+35.00
876.00
+0.68% Rt.
Ramp A Rt. Ditch Grade
+35.00
878.00
Ditch Grade
Rt.
Ditch Grade
880.91
880.95
881.00
881.06
881.13
881.22
881.32
881.43
881.56
881.70
881.86
882.03
882.21
2516+00
2517+00
2518+00
2519+00

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER K.9

13:32:02 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_K01.dgn

Sta. 3503+19.51 (Ramp C)
= Sta. 1303+16.91 (US 30), 61' Lt.
Begin Ramp C Grading

Limits of Construction

Ramp C Dike
Site 3

3504+00
3505+00
3506+00
3507+00
3508+00

POB 3503+19.51 (C)

W(C)

E1

SIGN

RAMP C

WB US 30

1305+00

F03

30

EB

EB US 30

0 FEET 20

**DAYTON AVE.
RAMP C**

BEG PROFILE = 3509+19.51
ELV = 890.69

Future Ramp C Finish Grade

895
890
885

Lt.

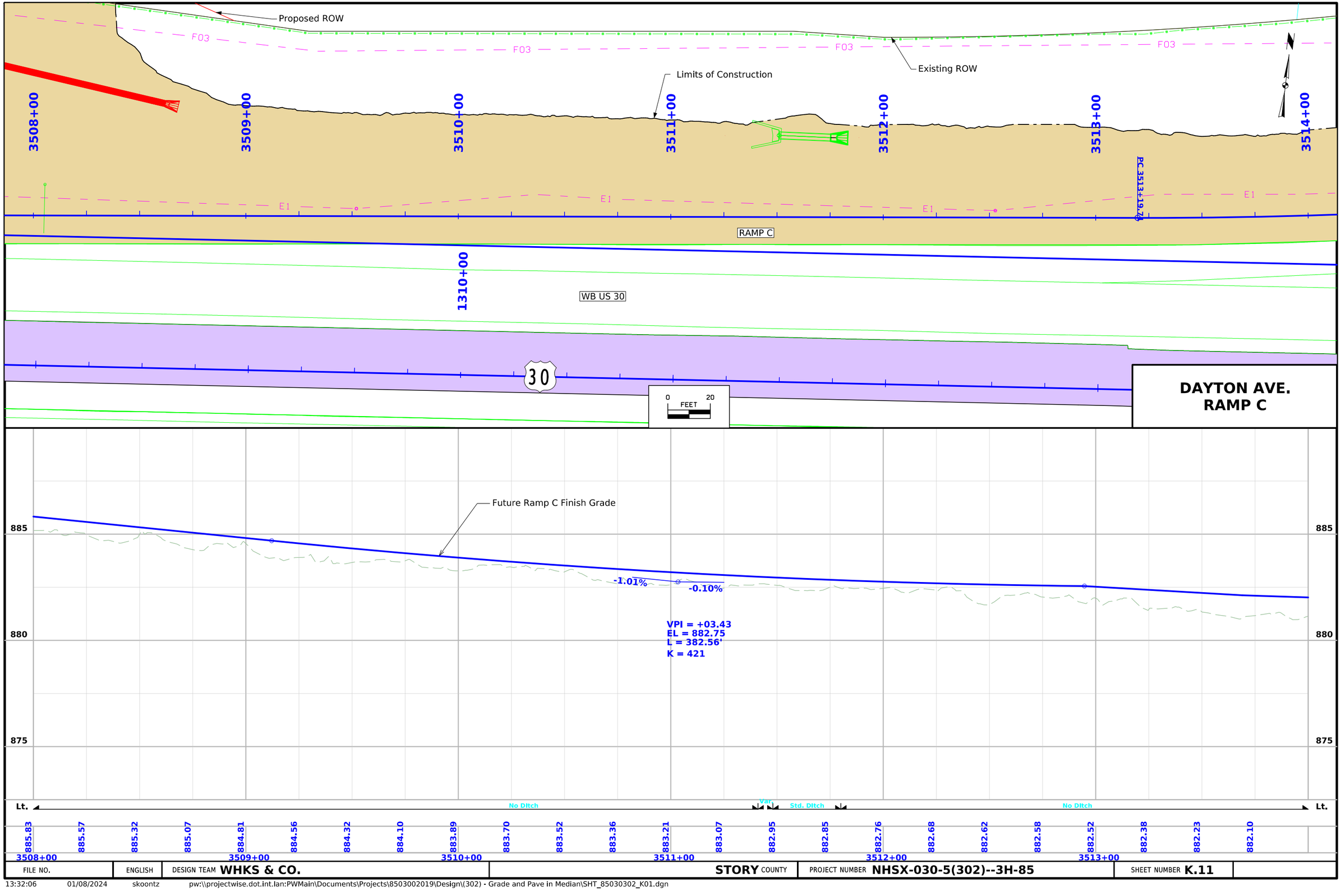
No Ditch

890.64 890.38 890.13 889.88 889.62 889.37 889.12 888.86 888.61 888.36 888.10 887.85 887.60 887.35 887.09 886.84 886.59 886.33 886.08

3502+00 3503+00 3504+00 3505+00 3506+00 3507+00

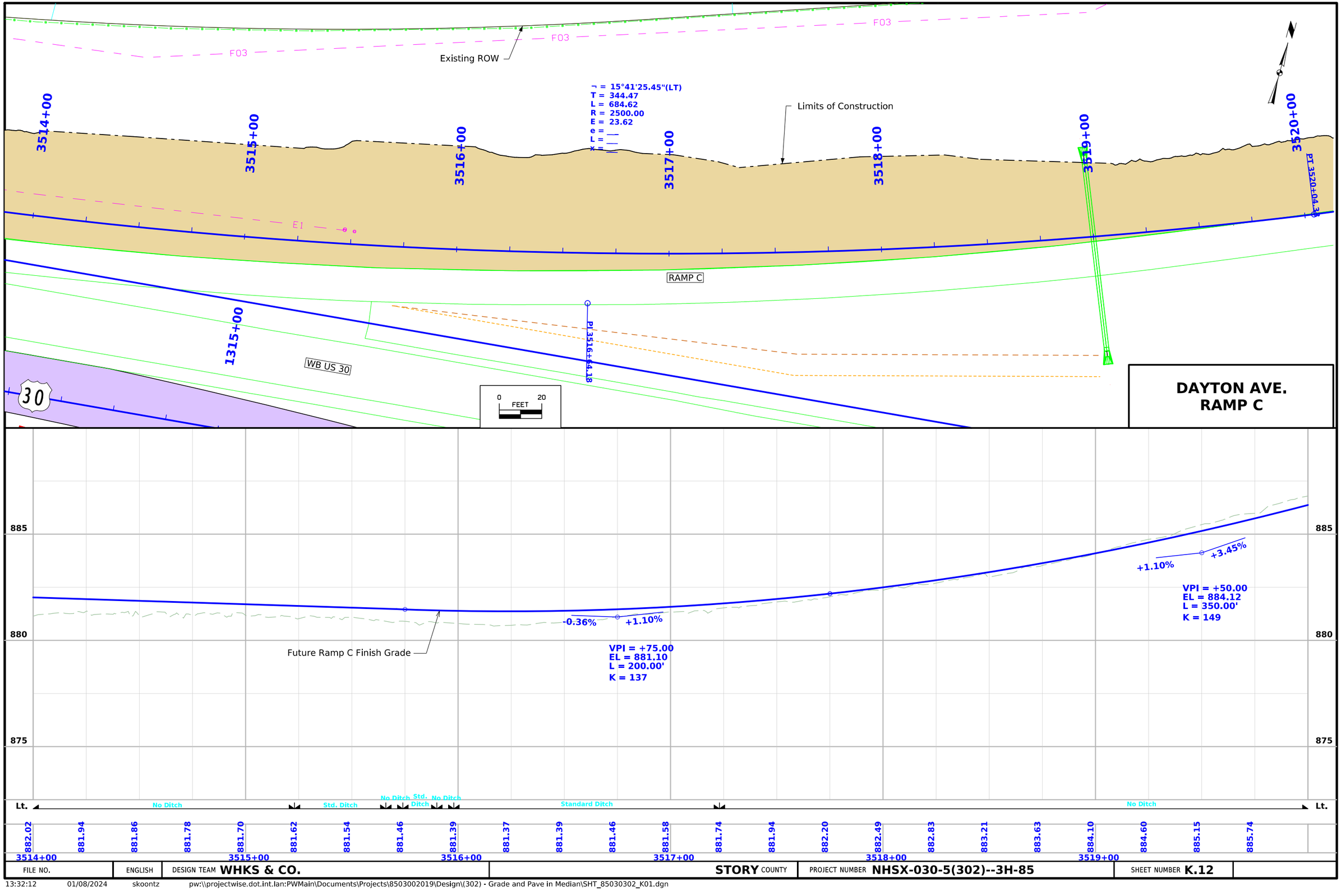
FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **K.10**

13:32:05 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_K01.dgn



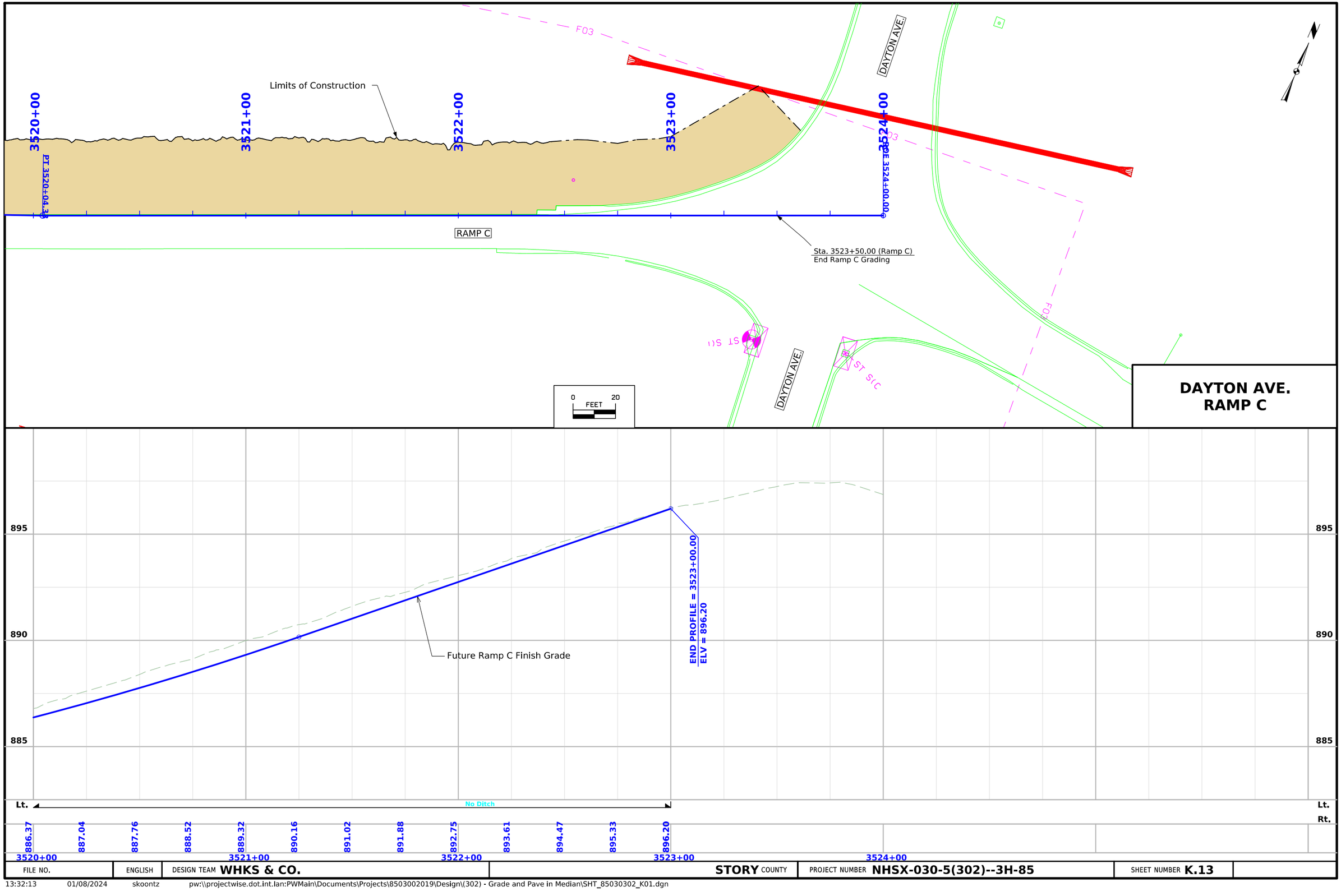
FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **K.11**

13:32:06 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_K01.dgn



FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **K.12**	

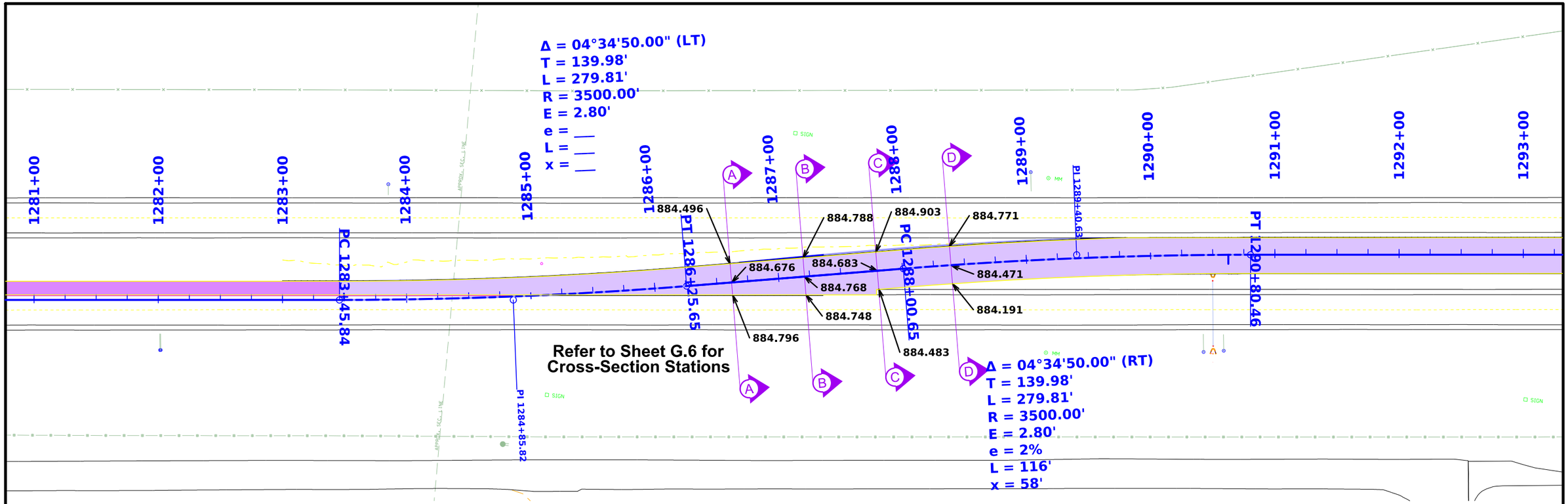
13:32:12 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_K01.dgn

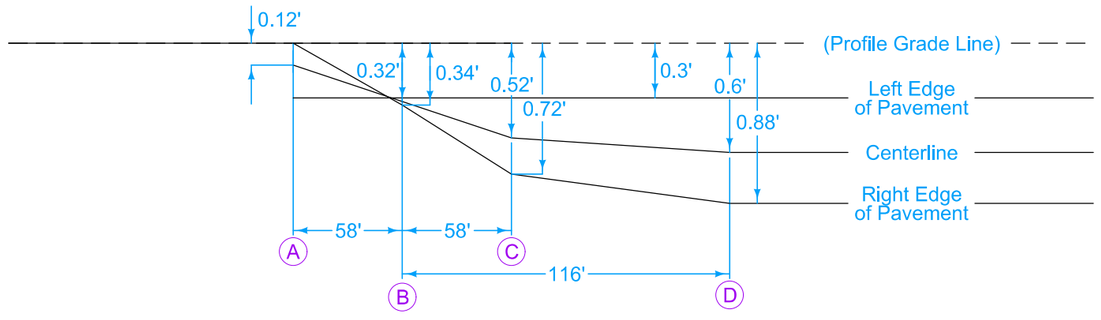


DAYTON AVE.
RAMP C

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **K.13**

13:32:13 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_K01.dgn

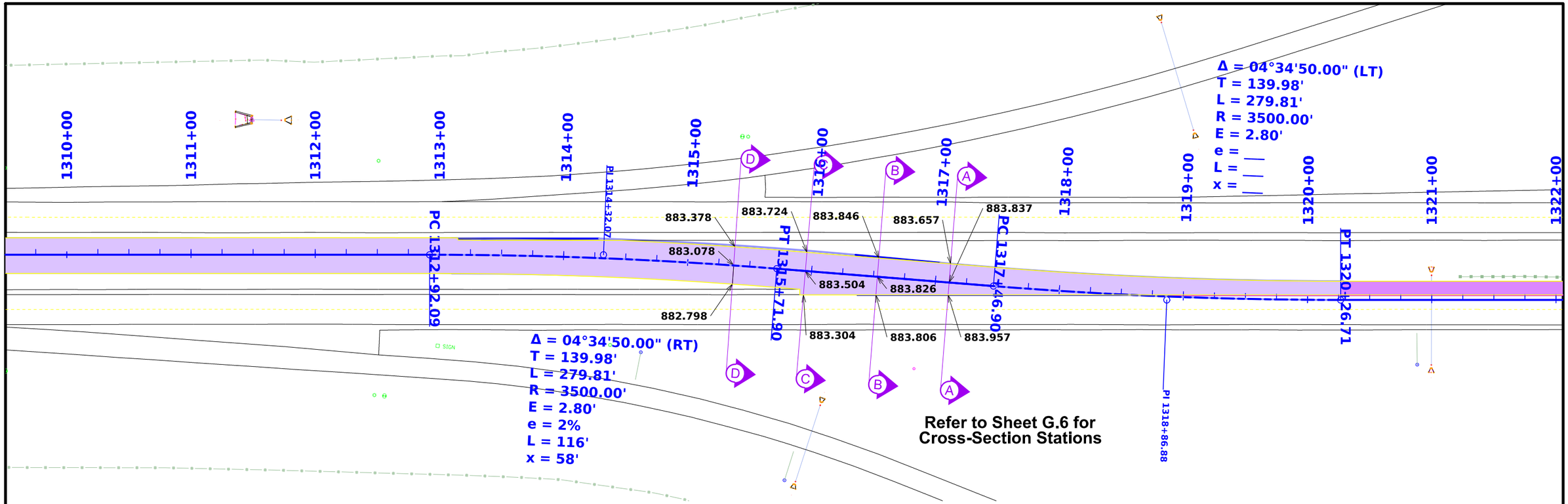


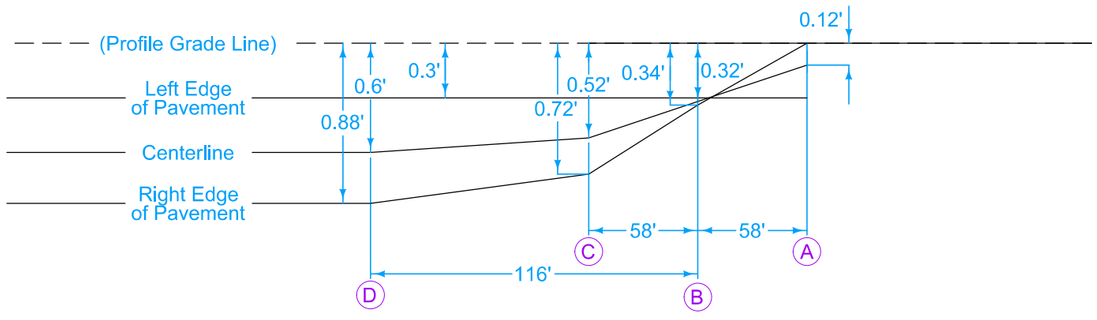


DIAGRAMMATIC PROFILES OF THE PAVEMENT EDGE LINES

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER L.1

3:29:34 PM 8/1/2024 tclevenger pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_L01.dgn





DIAGRAMMATIC PROFILES OF THE PAVEMENT EDGE LINES

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER L.2

3:29:35 PM 8/1/2024 tclevenger pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_L01.dgn

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link or Security Fence
- Wire Fence
- Terrace
- Earth Dam or Dike (Existing)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Existing Utility Access (Manhole)
- Fire Hydrant
- WH Water Hydrant (Rural)
- Septic Tank
- C Cistern
- LP L.P. Gas Tank (No Footing)
- UST Underground Storage Tank
- Latrine
- Satellite TV Dish
- WHU Water Hook Up
- RT Radio Tower
- TA Tower Anchor
- Guardrail (Beam or Cable)
- GP Guard Post (one or two)
- Guard Post (over two)
- FP Filler Pipe
- GV Gas Valve
- WV Water Valve
- SL Speed Limit Sign
- MM Mile Marker Post
- SIGN Sign
- TCB Traffic Signal Control Box
- RRB Rail Road Signal Control Box
- TSB Telephone Switch Box
- EB Electric Box

UTILITY LEGEND

— E1 —

Iowa DOT (Electrical positions)
Jason Dale
800 Lincoln Way
Ames, IA 50010
515-239-1995
DOT-IOC-Traffic@iowadot.us

— FO —

Iowa Communications Network (Fiber Optics)
Shannon Marlow
400 East 14th Street
Des Moines, IA 50319
800-572-3940
icnoutsideplantiowaonecall@iowa.gov

— FO3 —

CenturyLink/Lumen (Fiber Optics)
Sadie Hull
100 CenturyLink Dr.
Monroe, LA 71203
918-547-0147
sadie.hull@lumen.com

—SAN.(C)

City of Ames (Utility main)
Ben McConville
515 Clark Ave.
Ames, IA 50010
515-239-5162
bmcconville@city.ames.ia.us

—ST S(C)

City of Ames (Utility main)
James Thompson
515 Clark Ave.
Ames, IA 50010
515-239-5162
james.thompson@city.ames.ia.us

— E2 —

City of Ames (Electric)
Mark Carran
502 Carroll
Ames, IA 50010
515-239-5189
mcarran@city.ames.ia.us

— T1 —

City of Ames (Traffic)
Brad Becker
2207 Edison St.
Ames, IA 50010
515-231-3042
bbecker@city.ames.ia.us

PLAN VIEW COLOR LEGEND OF SOILS SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Purple (Halo)	(15)	Backslope Drains
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
SHADING	**Design Color No.**	
Brown, Light	(236)	Core Out

PROFILE VIEW COLOR LEGEND OF SOILS SHEETS

LINEWORK	Design Color No.	
Blue	(1)	Proposed Alignment, Stationing, and Alignment Annotation
Green	(2)	Existing Ground Line Profile
Green, Med	(2)	Topsoil
Green, Med	(2)	Slope Dressing Only
Orange	(6)	Loam
Aqua (Cyan)	(7)	Class 10
Brown, Med	(4)	Sand
Red	(3)	Unsuitable A
Pink, Dark	(13)	Unsuitable B
Pink	(11)	Unsuitable C
Red	(3)	Shale
Red	(3)	Waste
Gray, Light	(48)	Broken and Weathered Rock
Gray, Med	(80)	Rock
Gray, V.Dark	(128)	Boulders

PATTERN AND SYMBOL LEGEND OF SOILS SHEETS

- Drill
- Dig/Core
- Date(s) Drilled _____
- Water
- Treatment
- Sandstone
- Dry
- Sand Blanket
- Unsuitable A
- Sample
- Soil Remediation Area
- Unsuitable B
- Plugged
- Select Soil
- Unsuitable C
- Moisture
- Select Sand
- Sandy Soil
- Shelby
- Slope Dressing Only
- Boulders
- Blow Count
- Broken and Weathered Rock
- Shale
- Dens. Core
- Rock

Reference Point
Station

- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Clearing & Grubbing Area
- Pavement Removal

RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- A/C Access Control

NOTE: Sounding and test boring data shown in the plans were accumulated for designing and estimating purposes. Their appearance on the plans does not constitute a guarantee that conditions other than those indicated will be encountered. Details and notes shown elsewhere shall be used for roadway and structure construction.

SOILS LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES Q)

WASHINGTON TWP.
T-83N R-24W
SEC. 14

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

1260+00

1265+00

1270+00

Sta. 1259+92.11 (US 30)
Begin Project

30

US 30 Rt. Right Bench Grade

US 30 Rt. Ditch Grade = Ramp B Lt. Ditch Grade

Ramp D Alignment

DUFF AVE. RAMP D

DUFF AVE. RAMP A

RB5061

PA5062

RB5065

PA5066

RB5002

PA5004

RB5003

Limits of Construction

Existing ROW

(U.A.C.)
Sta. 1269+00, 14' LT
24"x70' RCP

Ramp A Alignment

Sta. 1273+00.53, 49' Lt.
Begin Pavement Widening

F03

E1

SAN.(C)

0 FEET 50

For Ramp Details
Refer to K Sheets

ML US 30

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/ Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.2**

11:43:19 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.2

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

Cut Moisture	11,12	11,11
Cut Density (lb/ft3)	113,126	119,--
Plastic Limit	--,13	--,12

990 980 970 960 950 940 930 920 910 900 890 880 870 860 850 840 830 820 810 800

Existing Median Profile

As-Built Profile Grade Line

Silty Sand, Brown (FILL)

Sandy Clay, little Gravel, Gray (TILL)

A-6(2) SA LO 10@126

Topsoil

Sandy Clay, tr. Gravel, Gray (FILL)

Clayey Sand, little Gravel, Gray (TILL)

RB5002 RT.72

RB5003 LT.86

1260+00 1265+00 1270+00

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/ Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.3**

11:43:24 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.2

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

WASHINGTON TWP.
T-83N R-24W
SEC. 14

(U.A.C.)
Sta. 1276+76, 7' LT
18"x10' RCP

(U.A.C.)
Sta. 1276+91, 0.5' LT
18"x3' RCP

Limits of Construction

Existing ROW

1275+00

1280+00

1285+00

DUFF AVE. RAMP A

DUFF AVE. RAMP D

SB5006

PA5008

RB5011

PA5013

PA5015

30

PA5004

SB5005

RB5007

RB5009

PA5012

RB5014

RB5016

(U.A.C.)
(EXTEND 24.0' Lt.)
(EXTEND 32.0' Rt.)
Sta. 1276+88.47
36"x145' RCP
D.A.=102 A.C. R-F
RIVER OVERFLOW
F.L. = Lt. 878.64
Rt. 879.01

Existing ROW

Limits of Construction

CITY OF AMES, IOWA

0 50
FEET

For Ramp Details
Refer to K Sheets

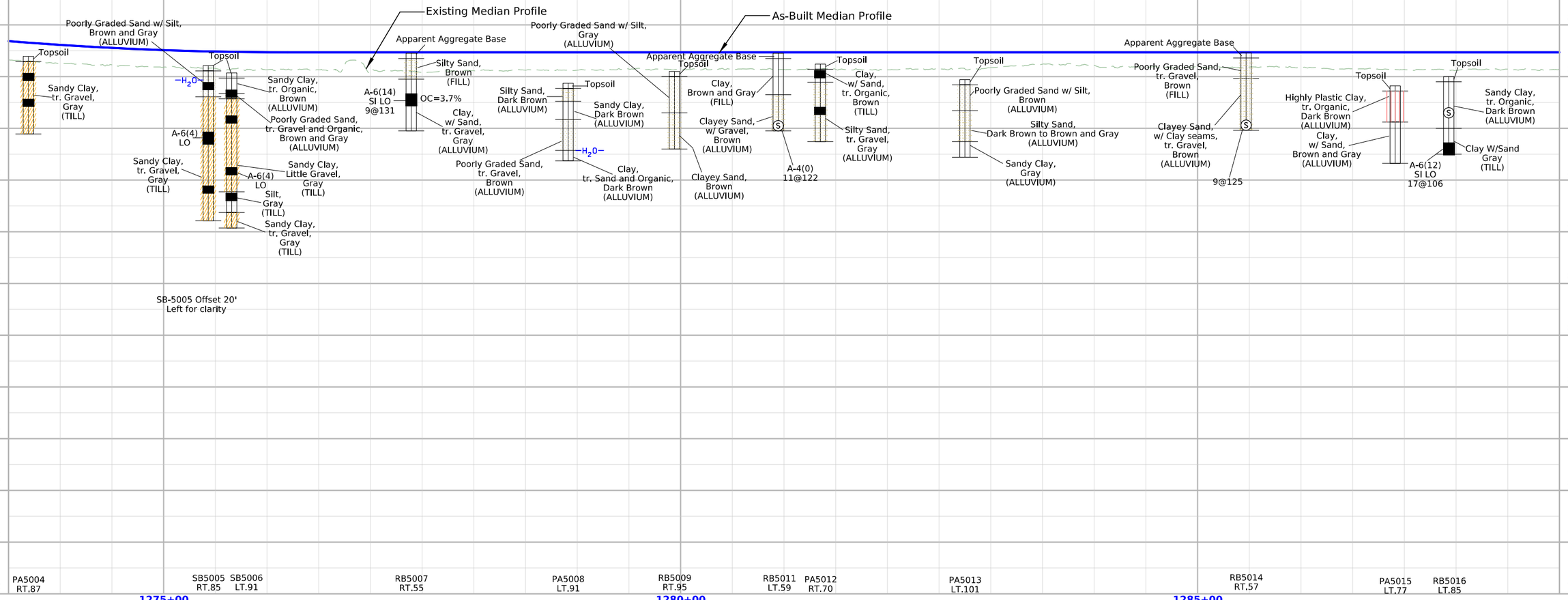
ML US 30

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/ Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.4**

11:43:27 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.2

	12,13 --,-- --,--	13,12,14 --,126,-- --,13,-- 22,18,20,17 --,--,--,-- --,--,13,--	22 103 21	Cut Moisture Cut Density (lb/ft3) Plastic Limit	9 -- 13	13,7 --,-- --,--	8 -- 13	24,18 100,109 --,17			

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.



FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/ Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.5**

11:43:28 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.2

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

DUAL 320' X 30' CONT. WELDED GIRDER BRIDGES SKEW 20° RT AH
DRAINAGE AREA: 556 SQ. MI. (PER PLAN

1290+00
1295+00
1300+00

RB5017
PA5018
SB5021
SB5024
SB5025
SB5039
BB5035
BB5038
SB5020
SB5023
BB5027
BB5030
SB5040
SB5019
RB5022
SB5026
SB5040A

30

FO3
FO
SAN.(C)
E1
5502
5505
5504
5501
5500

NW¼ NW¼
SEC. 13-83-24

0 50
FEET

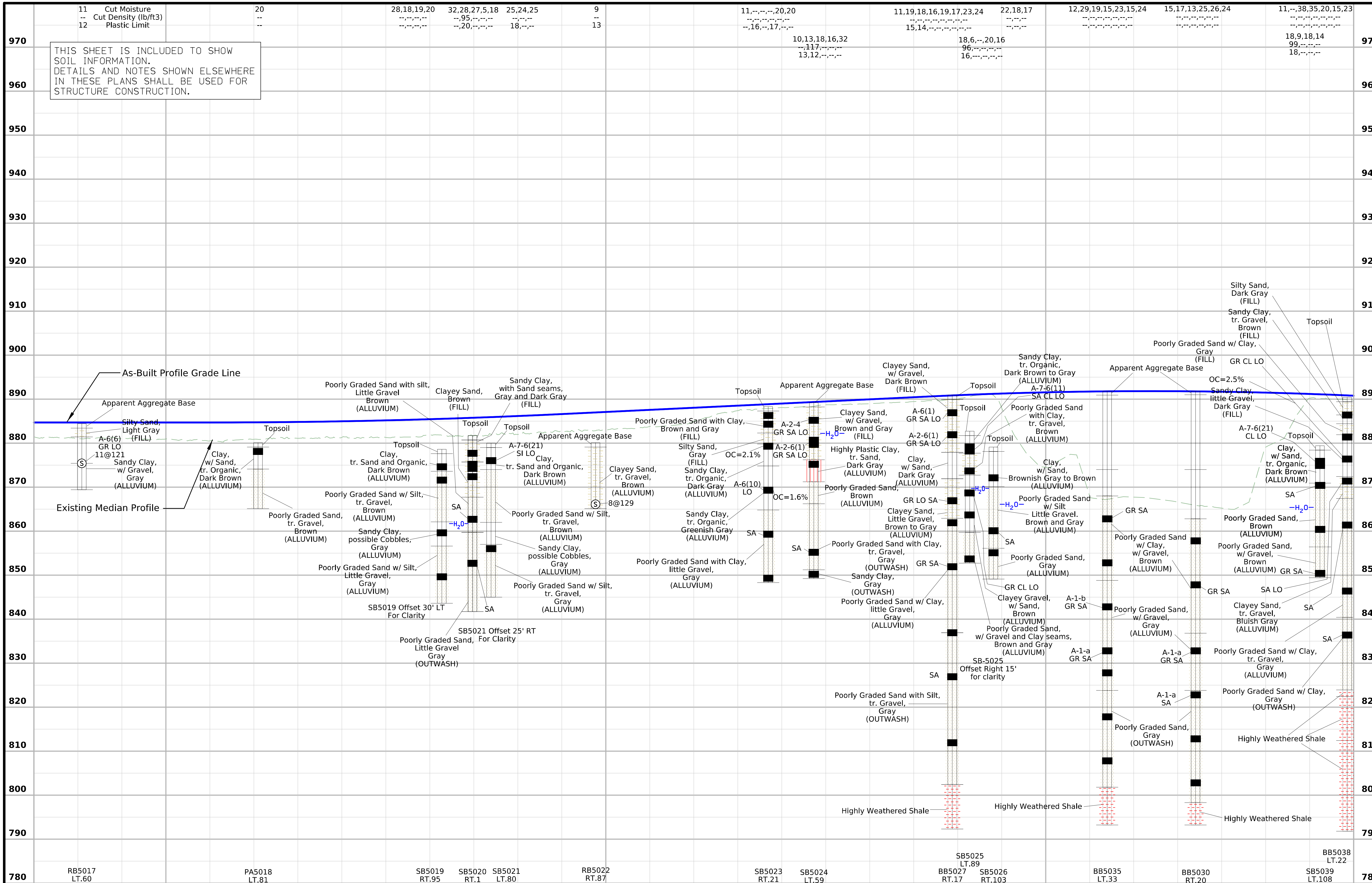
IOWA

For Ramp Details
Refer to K Sheets

1511
ML US 30

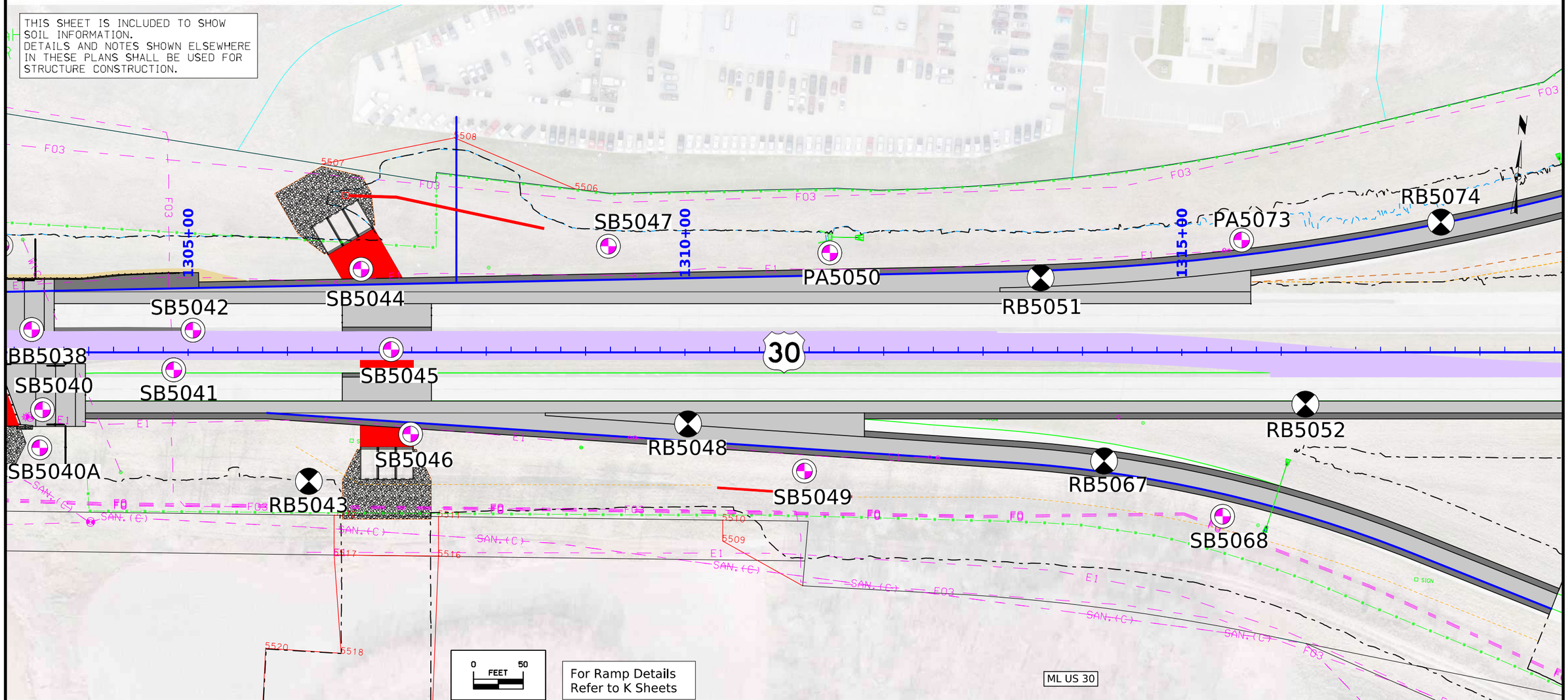
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/ Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.6**

11:43:32 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.2



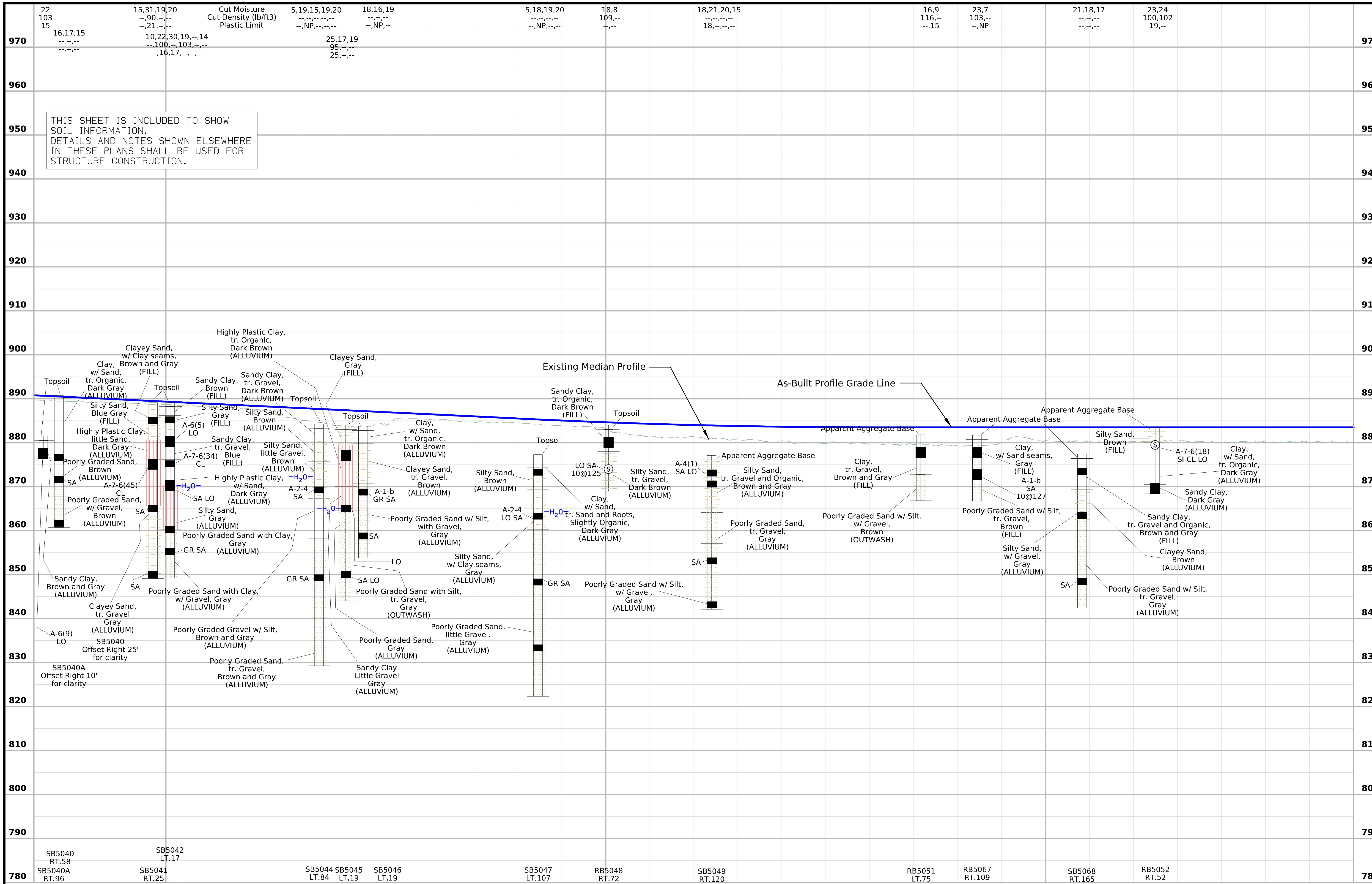
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/ Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.7**

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.



FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/ Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.8**

11:43:39 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.2



FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/ Braun Intertec**		**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.9**

11:43:40 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.2

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

RB5076

(U.A.C.)
Sta. 1319+06, 107' LT
24"x90' RCP

PA5075

DAYTON AVE. RAMP C

WASHINGTON TWP.
T-83N R-24W
SEC. 14

Ramp C Alignment

Limits of Construction

1320+00

DAYTON AVE.

1325+00

DAYTON AVE. EXIT RAMP

(U.A.C.)
Sta. 1329+93, 101' LT
24"x92' RCP

1330+00

Install Side Mount
DMS. Location TBD.

30

Sta. 1333+50.00
End Project

Sta. 1333+50.00, 49' Rt.
End Pavement Widening

SB5053

(U.A.C.)
(EXTEND 8.0' Rt.)
Sta. 1320+98, 9' RT
24"x72' RCP
F.L. = Rt. 877.41

RB5054

PA5055

RB5056

(U.A.C.)
Sta. 1329+98, 12' RT
24"x80' RCP

DAYTON AVE. ENTRANCE RAMP

(U.A.C.)
Sta. 1330+07, 133' LT
24"x58' RCP

Limits of Construction

SB5070

RB5071

0 FEET 50

For Ramp Details
Refer to K Sheets

Sta. 1329+98, 12' RT
24"x80' RCP

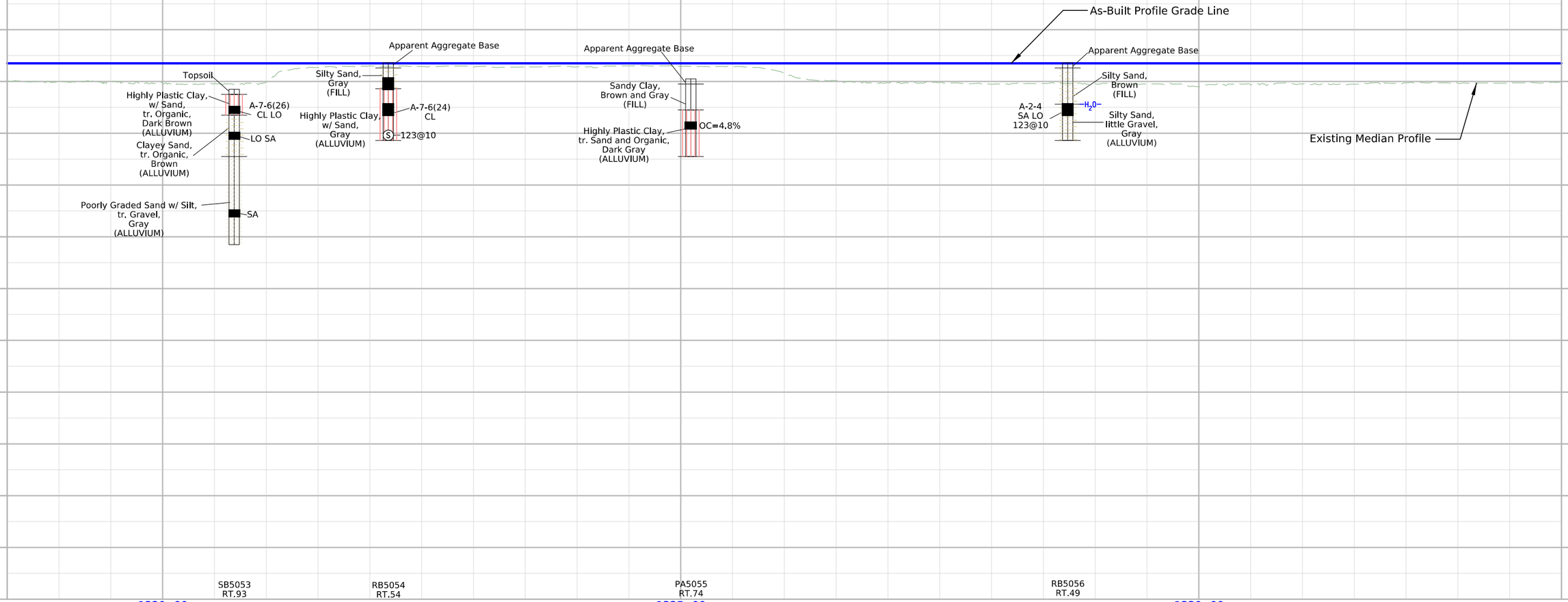
ML US 30

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/ Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.10**	

11:43:45 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.2

Cut Moisture	30,26,24	17,26,--	30	14
Cut Density (lb/ft3)	--,--,--	–,98,--	--	--
Plastic Limit	19,--,--	–,20,--	--	NP

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.



FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/ Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.11**

11:43:46 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.2

Sta. 1268+99, 113' LT
24"x50' RCP

Sta. 1269+00
24"x70' RCP, 14' LT

JLI PROPERTIES, L.C.

Sta. 1276+88.47
36"x145' RCP
SKEW 20° RT AH
D.A.=102 AC. R-F
RIVER OVERFLOW

Sta. 1276+91, 0.5' LT
18"x3' RCP

N

5270+00

5275+00

RB5065

PA5066

RB5003

SB5006

PA5008

RB5011

RB5007

RB5009

SB5005

PA5004

RB5002

PA5062

RB5061

30

CITY OF AMES, IOWA

0 50
FEET

DUFF AVE.
RAMP A

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.12**

11:44:20 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.03 new

DUFF AVE. RAMP A

Cut Moisture	11,11	22,18,20,17
Cut Density (lb/ft3)	–,–	–,–,–,–
Plastic Limit	–,12	--,--,13,–

905 900 895 890 885 880 875 870 865 860 855 850 845 840 835 830 825 820 815 810

Topsoil

Silty Sand, w/ Gravel, Brown (FILL)

Apparent Aggregate Base

Silty Sand, tr. Gravel, Brown (FILL)

Sandy Clay, tr. Gravel, Brown and Gray (TILL)

Sandy Clay, tr. Gravel, Gray (FILL)

A-4(0) GR SA LO 127@11

Clayey Sand, little Gravel, Gray (TILL)

S A-4(0) GR SA LO 127@11

Topsoil

Sandy Clay, tr. Organic, Brown (ALLUVIUM)

Poorly Graded Sand, tr. Gravel and Organic, Brown and Gray (ALLUVIUM)

Sandy Clay, little Gravel, Gray (TILL)

A-6(4) LO

Silt, Gray (TILL)

Sandy Clay, tr. Gravel, Gray (TILL)

Topsoil

Silty Sand, Dark Brown (ALLUVIUM)

Sandy Clay, Dark Brown (ALLUVIUM)

Poorly Graded Sand, tr. Gravel, Brown (ALLUVIUM)

H_2O

Clay, tr. Sand and Organic, Dark Brown (ALLUVIUM)

RB5065 LT.5

PA5066 LT.17

5270+00

RB5003 RT.13

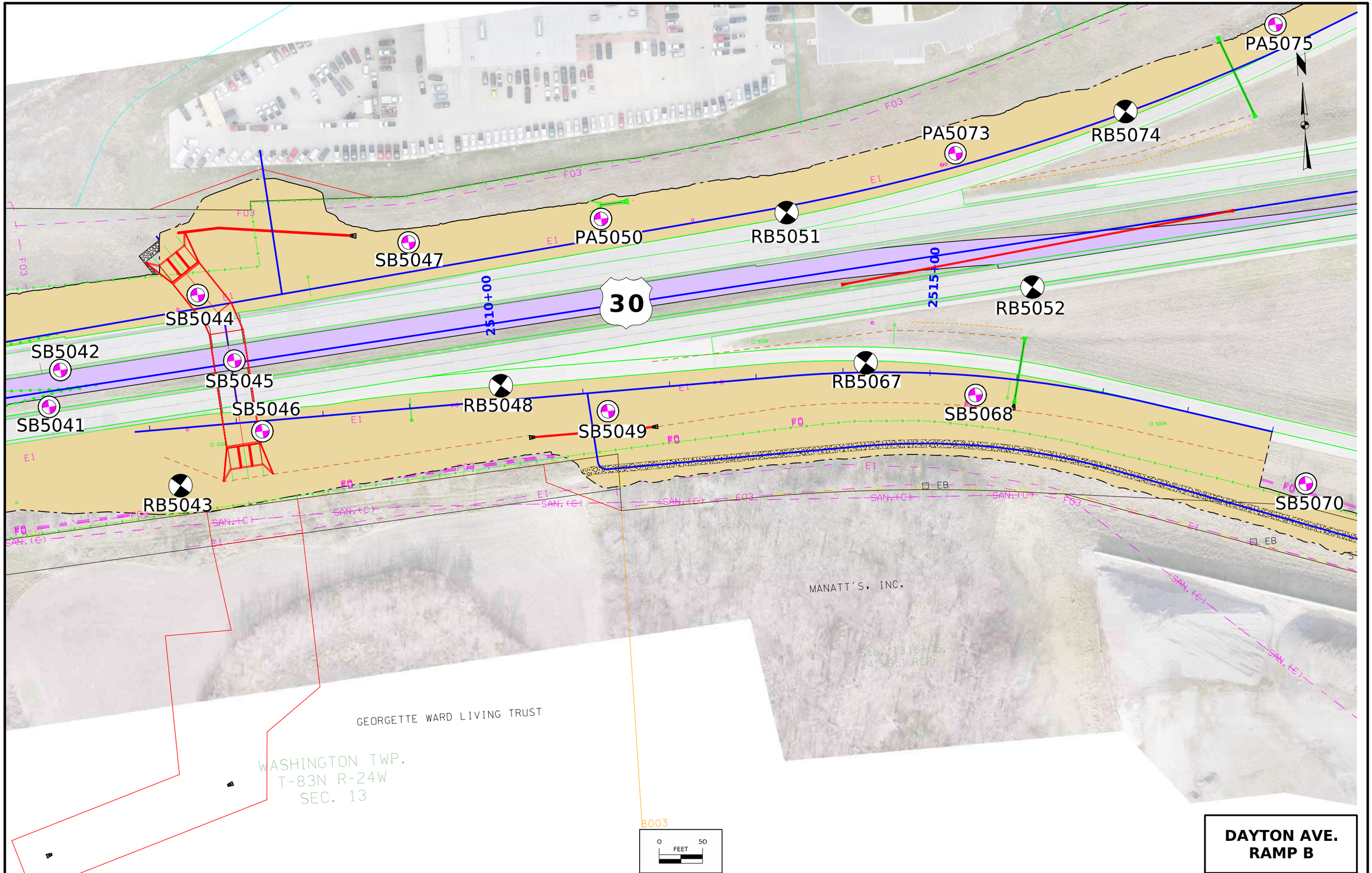
SB5006 LT.9

5275+00

PA5008 LT.27

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.13**

11:44:21 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.03 new

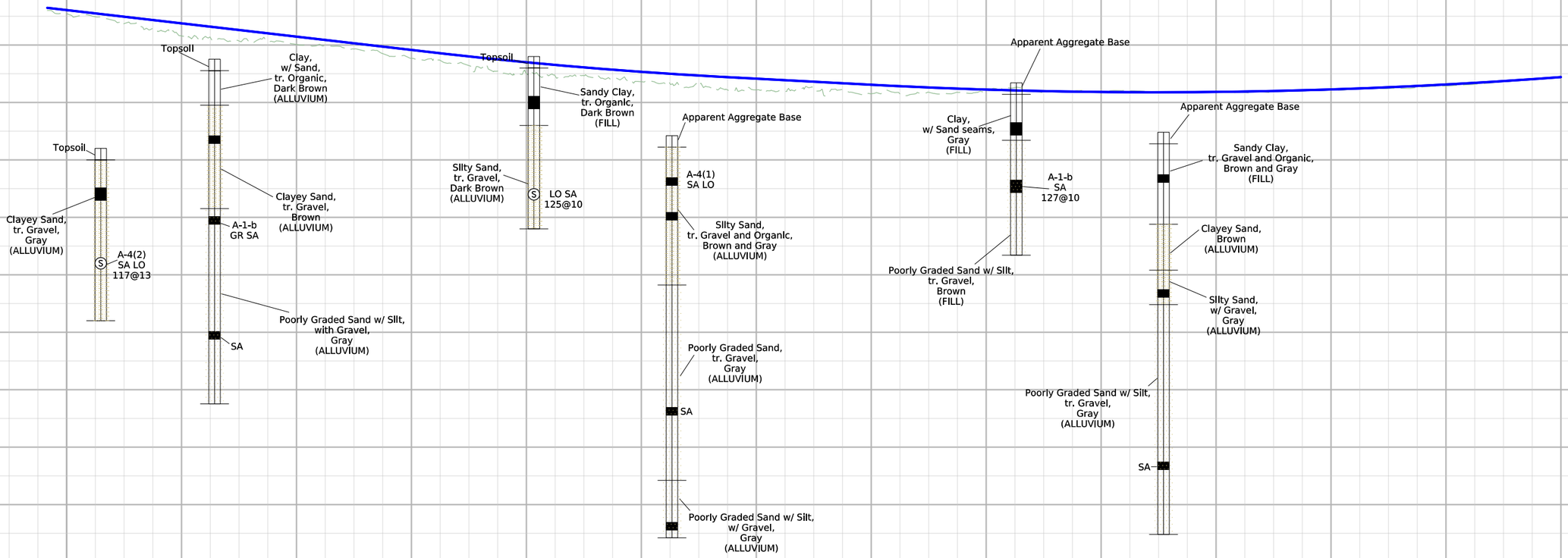


FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.14**	

11:44:27 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.03 new

DAYTON AVE. RAMP B

RB5043 RT.66	SB5046 RT.9	RB-5048 LT.17	SB5049 RT.22	RB5067 LT.11	SB5068 RT.22
23,20 99,-- --,17	18,16,19 --,--,-- --,NP,--	18,8 109,-- --,--	18,21,20,15 --,--,--,-- 18,--,--,--	23,7 103,-- --,NP	21,18,17 --,--,-- --,--,--
			Cut Moisture Cut Denslty (lb/ft3) Plastic Limit		



905 900 895 890 885 880 875 870 865 860 855 850 845 840 835 830 825 820 815 810

2505+00 2510+00 2515+00

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.15**

1:52:54 PM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.03 new

DEERY, DEERY & DEERY LLC

Sta. 1311+87, 72' L
36"x24' RCP

AMES

3505+00

3510+00

3515+00

SB5039

SB5042

SB5044

SB5047

PA5050

RB5051

BB5038

SB5040

SB5041

SB5045

30

SB5040A

SB5046

RB5048

BR5043

SB5049

RB5067

148' RT

0 50
FEET

**DAYTON AVE.
RAMP C**

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.16**

11:44:33 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.03 new

DAYTON AVE. RAMP C

Cut Moisture
Cut Density (lb/ft3)
Plastic Limit

5,19,15,19,20
--,--,--,--,--
--,NP,--,--,--

5,18,19,20
--,--,--,--
--,NP,--,--

21,13
--,--
--,--

16,9
116,--
--,15

905 900 895 890 885 880 875 870 865 860 855 850 845 840 835 830 825 820 815 810

Topsoil
Sandy Clay, tr. Gravel, Dark Brown (ALLUVIUM)
Silty Sand, Brown (ALLUVIUM)
$-H_2O-$
Silty Sand, little Gravel, Brown (ALLUVIUM)
A-2-4 SA
Poorly Graded Sand w/ Silt, Brown and Gray (ALLUVIUM)
GR SA
Poorly Graded Sand, w/ Gravel, Brown and Gray (ALLUVIUM)

SB5044
LT.15

Topsoil
Clay, w/ Sand, tr. Sand and Roots, Slightly Organic, Dark Gray (ALLUVIUM)
Silty Sand, Brown (ALLUVIUM)
Silty Sand, w/ Clay seams, Gray (ALLUVIUM)
$-H_2O-$
A-2-4 LO SA
Poorly Graded Sand, little Gravel, Gray (ALLUVIUM)
GR SA

SB5047
LT.34

Apparent Aggregate Base
Silty Sand, Gray (ALLUVIUM)
Clay, tr. Sand and Organic, Dark Brown (ALLUVIUM)
Poorly Graded Sand, Brown (ALLUVIUM)

PA5050
LT.23

Apparent Aggregate Base
Clay, tr. Gravel, Brown and Gray (FILL)
A-2-4 GR SA LO 120@11
Poorly Graded Sand w/ Silt, w/ Gravel, Brown (OUTWASH)

RB5051
RT.7

3505+00 3510+00

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.17**

11:44:35 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.03 new

AMES HOTEL ASSOCIATES LLC

AMKIN18 LLC
AMBROSE PROPERTIES LC

DEERY, DEERY & DEERY LLC

Sta. 1319+06, 107' Lt.
24"x90' RCP

3515+00

3520+00

FO3

PA5073

RB5076

PA5075

RB5074

RB5067

RB5052

SB5068

30

SB5053

RB5054

PA5055

E1

EB

SIGN

SAN. LOT

0 FEET 50

**DAYTON AVE.
RAMP C**

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.18**

11:44:40 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.03 new

DAYTON AVE. RAMP C

28,6
–,–
–,–

13
116
–

10,22
–,–
–,–

30,12,13
89,--,--
25,--,13

905
900
895
890
885
880
875
870
865
860
855
850
845
840
835
830
825
820
815
810

Apparent Aggregate Base

Clay,
tr. Sand and Organic,
Dark Brown
(FILL)

Clayey Sand,
tr. Gravel,
Brown and Gray
(ALLUVIUM)

Poorly Graded Sand,
Brown and Gray
(ALLUVIUM)

Topsoil

Clay,
w/ Sand,
Dark Brown
(FILL)

Poorly Graded Sand,
Brown
(FILL)

Apparent aggregate Base

Sandy Clay,
tr. Gravel and debris,
Gray and Dark Gray
(FILL)

Clay,
tr. Sand and Gravel,
Dark Gray
(ALLUVIUM)

Apparent aggregate Base

A-7-6(26)
CL

HIghly Plastic Clay,
little Sand,
Dark Brown
(FILL)

A-6(6)
LO
121@12

Sandy Clay,
tr. Gravel,
Gray
(TILL)

PA5073
LT.15

RB5074
LT.1

PA5075
LT.18

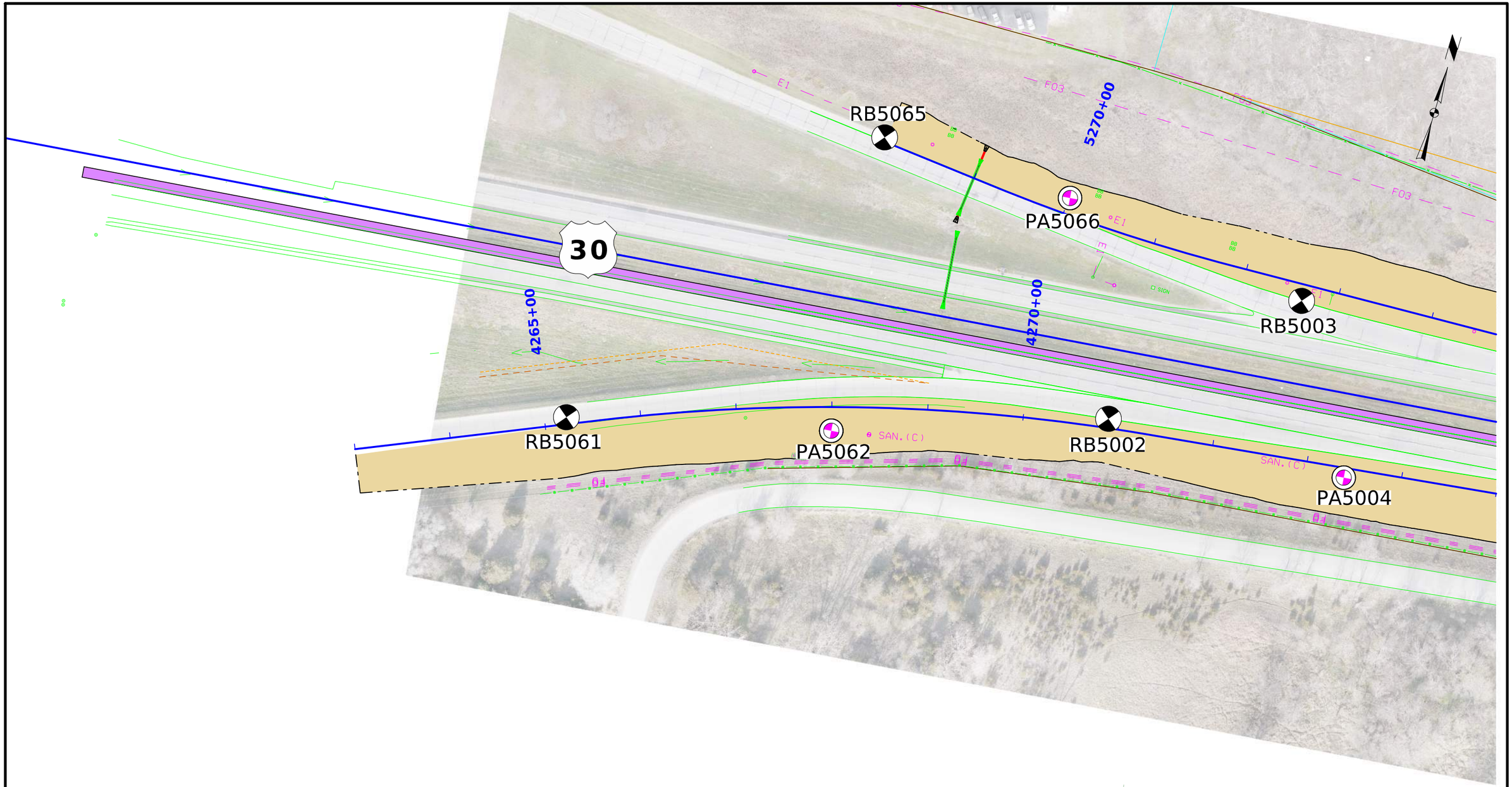
RB5076
LT.11

3515+00

3520+00

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER **Q.19**

11:44:41 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.03 new



WASHINGTON TWP.
T-83N R-24W
SEC. 14

0 50
FEET

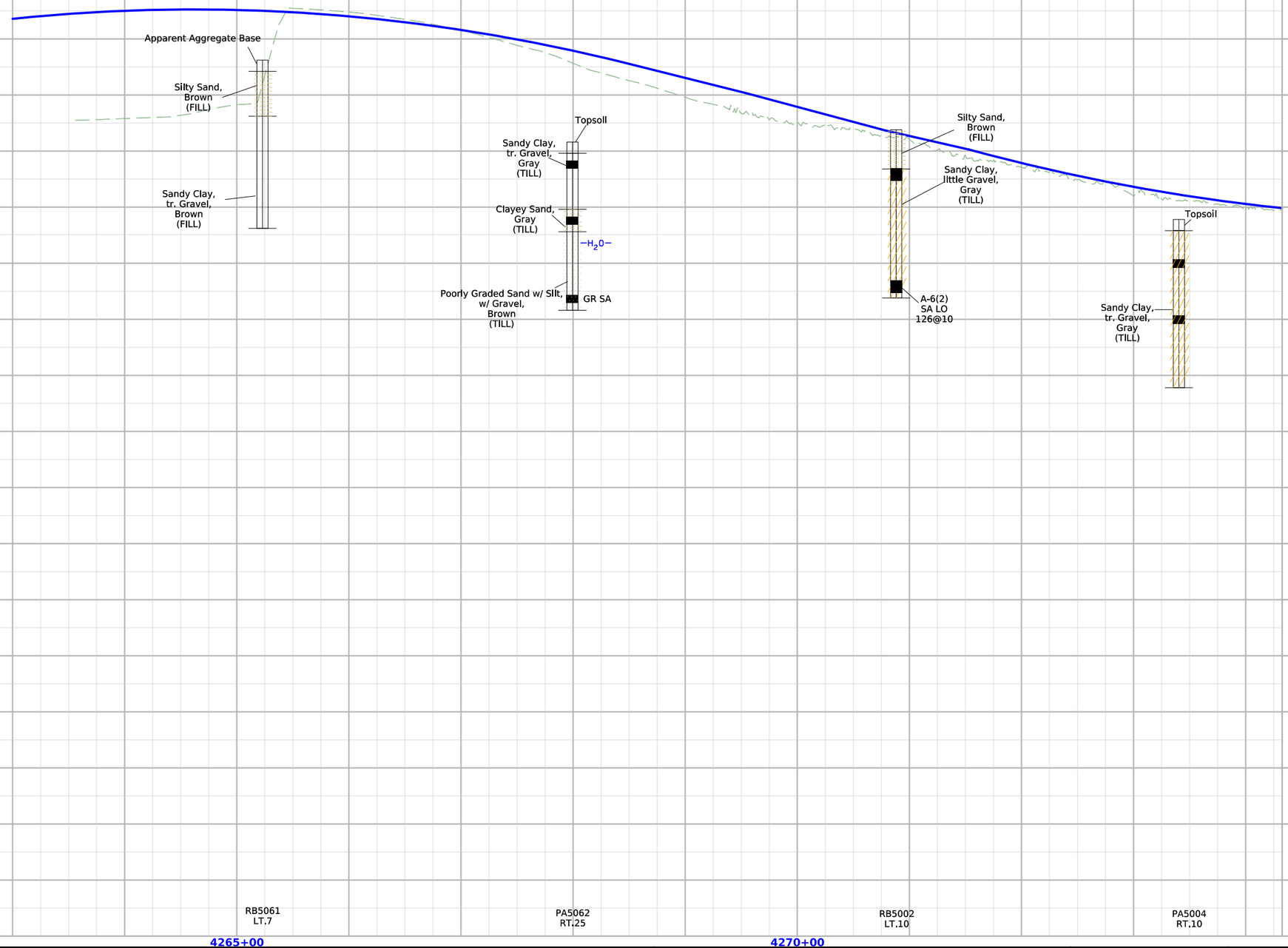
DUFF AVE.
RAMP D

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.20**	

11:44:44 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.03 new

DUFF AVE. RAMP D

	10,13,13	Cut Moisture	11,12	12,13
	--,--,--	Cut Density (lb/ft3)	113,126	–,–
	--,--,--	Plastic Limit	–,13	–,–



915 910 905 900 895 890 885 880 875 870 865 860 855 850 845 840 835 830 825 820

RB5061 LT,7 | PA5062 RT,25 | RB5002 LT,10 | PA5004 RT,10

4260+00 | 4265+00 | 4270+00

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.21**

11:44:45 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.03 new

MENARD, INC.

CITY OF AMES, IOWA

5275+00

4275+00

4280+00

SB5006

PA5008

RB5011

PA5013

PA5015

RB5017

SB5005

RB5007

RB5009

PA5012

RB5014

RB5016

30

F03

FO

SAN.(C)

SIGN

SL

MH

0 50 FEET

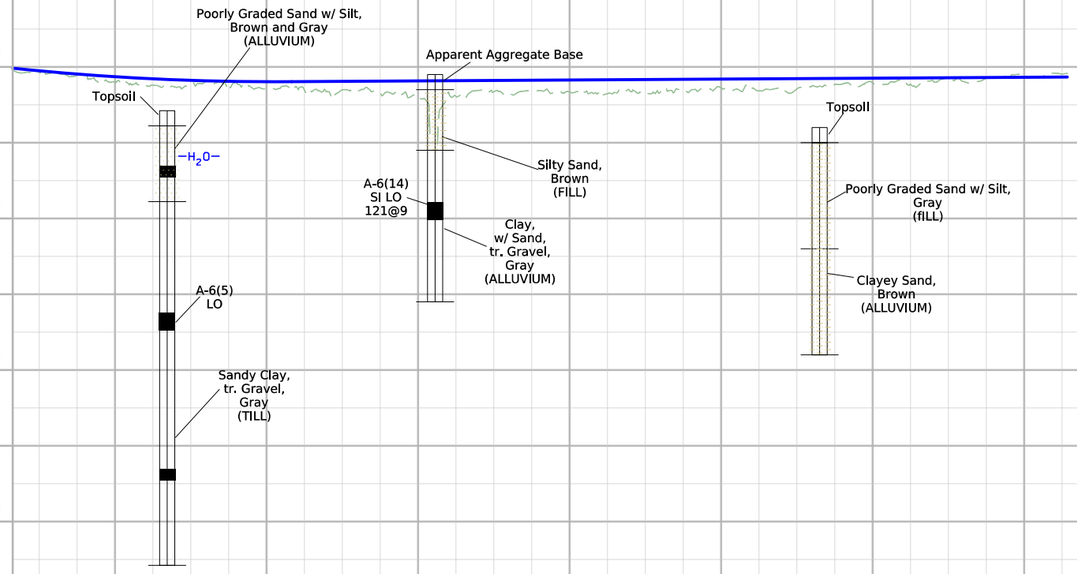
DUFF AVE.
RAMP D

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.22**

11:44:49 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.03 new

DUFF AVE. RAMP D

13,12,14 Cut Moisture 22
--,126,-- Cut Density (lb/ft3) 103
--,13,-- Plastic Limit 21



915 910 905 900 895 890 885 880 875 870 865 860 855 850 845 840 835 830 825 820

SB-5005 RT.12 | RB-5007 LT.14 | RB-5009 RT.31

4275+00 | 4280+00

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.23**

11:44:50 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.03 new

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

SB5040
SB5040A
SB5039
BB5038
SB5041
SB5042
1305+00
RB5043
36+00
SB5044
SB5045
SB5046
30
SB5047
1310+00
RB5048
SB5049
26+00
27+00
PA5050
0 50 FEET

WASHINGTON TWP.
T-83N R-24W
SEC. 13

WASHINGTON TWP.
T-83N R-24W
SEC. 12

Sta. 1311+87, 72" x 24" RCP

DAYTON AVE RAMP C
DIKE SITE 3

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.24**

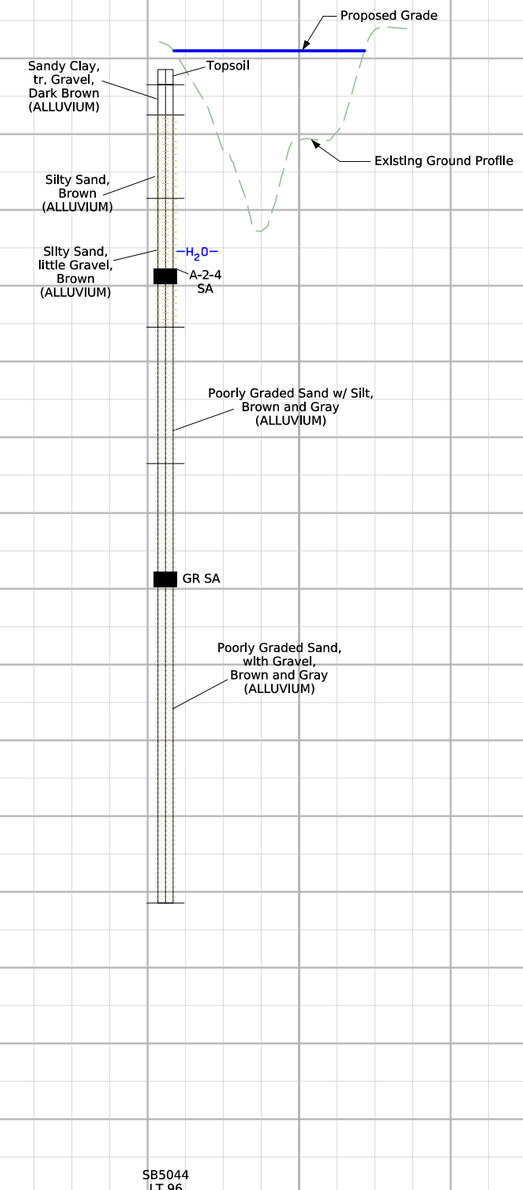
11:45:27 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.04 new

Cut Moisture
Cut Denslty (lb/ft3)
Plastic Limit

5,19,15,19,20
--,--,--,--,--
--,NP,--,--,--

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

DAYTON AVE RAMP C
DIKE SITE 3



FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.25**

11:45:29 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.04 new

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

PA5075
RB5074
PA5073
RB5054
SB5053
RB5051
PA5050
RB5052
RB5067
SB5068
RB5071
SB5070
SB5072
SB5049
13+20
13+55
30+00
35+00
30
E1
FO3
SAN. (C)
EB
SIGN
Sta. 1316+05, 114' RT
24"x65' RCP
Sta. 1320+98, 9' RT
24"x72' RCP
0 50 FEET

DAYTON AVE RAMP B
DIKE SITE 4

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.26**

11:45:33 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.04 new

DAYTON AVE RAMP B
DIKE SITE 4

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

Cut Moisture
Cut Density (lb/ft3)
Plastic Limit

905 900 895 890 885 880 875 870 865 860 855 850 845 840 835 830 825 820 815 810

SB5049 LT.20 — 25+00

18,21,20,15
--,--,--,--
18,--,--,--

Proposed Grade Line

Apparent Aggregate Base

A-4(1)
SA LO

Silty Sand,
tr. Gravel and Organic,
Brown and Gray
(ALLUVIUM)

Poorly Graded Sand,
tr. Gravel,
Gray
(ALLUVIUM)

SA

Poorly Graded Sand w/ Silt,
tr. Gravel,
Gray
(ALLUVIUM)

Profile for ramp infield borings not included.
Ramps will be included in future packages

SB5068 LT.58 — 30+00

21,18,17
--,--,--
--,--,--

Apparent Aggregate Base

Sandy Clay,
tr. Gravel and Organic,
Brown and Gray
(FILL)

Clayey Sand,
Brown
(ALLUVIUM)

Silty Sand,
w/ Gravel,
Gray
(ALLUVIUM)

Poorly Graded Sand w/ Silt,
tr. Gravel,
Gray
(ALLUVIUM)

SA

SB-5070 LT.45 — 35+00

19,21,6,17
--,--,--,--
15,--,--,--

Existing Grade Line

Clay,
w/ Sand,
tr. Gravel and Organic,
Gray
(ALLUVIUM)

Topsoil

A-6(17)
LO

Silty Sand,
Gray
(ALLUVIUM)

$-H_2O-$

Poorly Graded Sand w/ Silt,
w/ Gravel
Gray
(ALLUVIUM)

GR SA

SA

Clayey Sand,
w/ Gravel
Gray
(ALLUVIUM)

RB5071 LT.98

12,32
--,89
--,--

Apparent Aggregate Base

Silty Sand,
tr. Gravel,
Gray
(FILL)

Clay,
Dark Gray
(ALLUVIUM)

SB5072 LT.48

33,21,23,18
--,--,--,--
23,--,--,--

Topsoil

A-7-6(30)
SI CL

Highly Plastic Clay,
Little Sand,
tr. Gravel and Organic,
Dark Brown
(ALLUVIUM)

Clayey Sand,
Brown
(ALLUVIUM)

SA

Poorly Graded Sand w/ Silt,
tr. Gravel,
Gray
(ALLUVIUM)

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT/WHKS/Braun Intertec**	**Story** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **Q.27**

11:45:35 AM 8/1/2024 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Soils\Q-Sheets\Q Sheets\Q.04 new

100_10
8/15/22

FLOATING SILT CURTAINS

Refer to EC-202

Line No.	Station	Hanging (LF)	Containment (LF)	Clean-out (Containment) (LF)	Maintenance of Floating Silt Curtain (LF)	Remarks
1.0	1299+75.00	100.0			50.0	West Abutment
2.0	1302+75.00	100.0			50.0	East Abutment
Total:		**200**			**100**	

SILT DIKES

Refer to EW-403

Line No.	Station From	Station To	Side	Length (LF)	Remarks
1.0	1266+19.00	1299+37.00	Right	3318.00	
2.0	1268+00.00	1300+25.00	Left	3150.00	
3.0	1302+95.00	1330+60.00	Right	1575.00	
4.0	1302+70.00	1323+10.00	Left	2040.00	
Total:				**10083**	

100_17
8/15/22

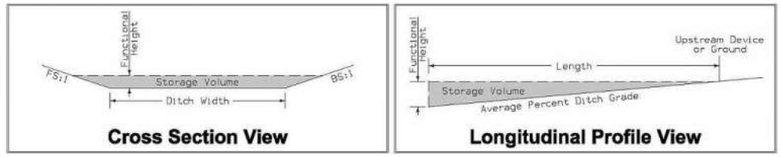
TABULATION OF SILT FENCES

Refer to EC-201

Line No.	Station From	Station To	Side	Length (FT)	Remarks
1.0	1266+19.00	1299+37.00	Right	3318.00	
2.0	1268+00.00	1300+25.00	Left	3150.00	
3.0	1302+95.00	1330+60.00	Right	1575.00	
4.0	1302+70.00	1323+10.00	Left	2040.00	
5.0	1276+25.00	1276+25.00	Right	460.00	US 30 EB Boring Pits
6.0	6326+90.30	6327+10.42	Left	460.00	Dayton Ave Boring Pits
Total:				**11003**	

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201

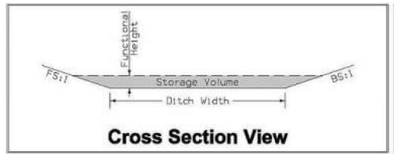


* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: [0.5*Spacing*(0.5*H^2*FS+DW*H+0.5*H^2*BS)]

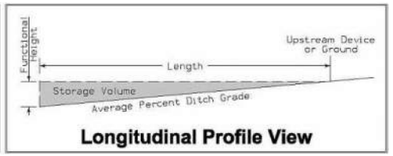
Line No.	Basin No.	Type	Station	Side	Installation (LF)	Maintenance (LF)	Removal (LF)	Foreslope (FS:1)	Backslope (BS:1)	Ditch Width (FT)	Avg. % Slope Ditch Grade	Volume (CF)	Remarks
1.0	1	Type 1	1277+32.00	Right	40.0	4.0	20.0	4.0	5.0	50.0	0.3	11855.02	
2.0	1	Type 1	1280+47.00	Right	40.0	4.0	20.0	4.0	5.0	50.0	0.3	11855.02	
3.0	1	Type 1	1283+62.00	Right	40.0	4.0	20.0	4.0	5.0	50.0	0.3	11855.02	
4.0	1	Type 1	1286+77.00	Right	40.0	4.0	20.0	4.0	5.0	50.0	0.3	11855.02	
5.0	1	Type 1	1289+92.00	Right	40.0	4.0	20.0	4.0	5.0	50.0	0.3	11855.02	
6.0	1	Type 1	1293+07.00	Right	40.0	4.0	20.0	4.0	5.0	50.0	0.3	11855.02	
7.0	1	Type 1	1296+22.00	Right	40.0	4.0	20.0	4.0	5.0	50.0	0.3	11855.02	
8.0	1	Type 1	1299+37.00	Right	40.0	4.0	20.0	4.0	5.0	50.0	0.3	11855.02	
9.0	2	Type 5	1259+89.00	Right	32.0	3.2	16.0	3.0			0.4	426.82	
10.0	2	Type 5	1263+04.00	Right	32.0	3.2	16.0	3.0			0.4	426.82	
11.0	2	Type 5	1266+19.00	Right	32.0	3.2	16.0	3.0			0.4	426.82	
12.0	2	Type 1	1265+50.00	Right	40.0	4.0	20.0	3.0	5.0	50.0	0.8	5762.90	
13.0	2	Type 1	1267+05.00	Right	40.0	4.0	20.0	3.0	5.0	50.0	0.8	5762.90	
14.0	2	Type 1	1268+60.00	Right	40.0	4.0	20.0	3.0	5.0	50.0	0.8	5762.90	
15.0	2	Type 1	1270+15.00	Right	40.0	4.0	20.0	3.0	5.0	50.0	0.8	5762.90	
16.0	2	Type 1	1271+70.00	Right	40.0	4.0	20.0	4.0	5.0	50.0	0.3	11855.02	
17.0	2	Type 1	1274+85.00	Right	40.0	4.0	20.0	4.0	5.0	50.0	0.3	11855.02	
18.0	2	Type 1	1268+00.00	Left	37.0	3.7	18.5	4.0	3.0	20.0	0.3	5224.28	
19.0	2	Type 1	1270+40.00	Left	37.0	3.7	18.5	4.0	3.0	20.0	0.3	5224.28	
20.0	2	Type 5	1268+00.00	Left	37.0	3.7	18.5	4.0			0.5	568.57	
21.0	2	Type 5	1271+15.00	Left	37.0	3.7	18.5	3.0			0.5	426.82	
22.0	2	Type 5	1274+30.00	Left	37.0	3.7	18.5	4.0			0.5	568.57	
23.0	2	Type 5	1277+45.00	Left	37.0	3.7	18.5	4.0			0.5	568.57	
24.0	2	Type 5	1280+60.00	Left	37.0	3.7	18.5	4.0			0.5	568.57	
25.0	2	Type 5	1283+75.00	Left	37.0	3.7	18.5	4.0			0.2	568.57	
26.0	2	Type 5	1286+90.00	Left	37.0	3.7	18.5	4.0			0.2	568.57	
27.0	2	Type 5	1290+05.00	Left	37.0	3.7	18.5	4.0			0.2	568.57	
28.0	2	Type 5	1293+20.00	Left	37.0	3.7	18.5	4.0			0.2	568.57	
29.0	2	Type 5	1296+35.00	Left	37.0	3.7	18.5	4.0			0.2	568.57	
30.0	2	Type 5	1299+50.00	Left	37.0	3.7	18.5	4.0			0.2	568.57	
31.0	3	Type 5	1302+95.00	Right	50.0	5.0	25.0	4.0		20.0	0.4	4799.02	
32.0	3	Type 5	1306+10.00	Right	50.0	5.0	25.0	4.0		20.0	0.4	4799.02	
33.0	3	Type 5	1309+25.00	Right	50.0	5.0	25.0	4.0		20.0	0.4	4799.02	
34.0	3	Type 5	1312+40.00	Right	50.0	5.0	25.0	4.0		20.0	0.4	4799.02	
35.0	3	Type 5	1315+55.00	Right	50.0	5.0	25.0	4.0		20.0	0.4	4799.02	
36.0	3	Type 5	1318+70.00	Right	50.0	5.0	25.0	4.0		20.0	0.4	4799.02	
37.0	4	Type 5	1302+70.00	Left	50.0	5.0	25.0	4.0		10.0	0.3	2683.80	
38.0	4	Type 5	1305+85.00	Left	50.0	5.0	25.0	4.0		10.0	0.3	2683.80	
39.0	4	Type 5	1309+00.00	Left	50.0	5.0	25.0	4.0		10.0	0.3	2683.80	
40.0	4	Type 5	1312+15.00	Left	50.0	5.0	25.0	4.0		10.0	0.1	2683.80	
41.0	4	Type 5	1315+30.00	Left	50.0	5.0	25.0	4.0		10.0	0.1	2683.80	
42.0	4	Type 5	1318+45.00	Left	50.0	5.0	25.0	4.0		10.0	0.1	2683.80	
43.0	4	Type 5	1321+60.00	Left	50.0	5.0	25.0	4.0		10.0	0.1	2683.80	
44.0	4	Type 5	1323+10.00	Left	50.0	5.0	25.0	4.0		10.0	0.1	2683.80	
45.0			+.00									NaN	

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201



Cross Section View



Longitudinal Profile View

* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: [0.5*Spacing*(0.5*H^2*FS+DW*H+0.5*H^2*BS)]

Line No.	Basin No.	Type	Station	Side	Installation (LF)	Maintenance (LF)	Removal (LF)	Foreslope (FS:1)	Backslope (BS:1)	Ditch Width (FT)	Avg. % Slope Ditch Grade	Volume (CF)	Remarks
Total:					**1837**	**183.7**	**918.5**						

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Line No.	Station From	Station To	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
1.0	1269+00.00	1269+00.00	Left	Perimeter and Slope	12 inch	240.00	For Culvert Extension
2.0	1276+50.00	1276+50.00	Left	Perimeter and Slope	12 inch	240.00	For Culvert Extension
3.0	1276+75.00	1276+75.00	Right	Perimeter and Slope	12 inch	240.00	For Culvert Extension
4.0	1276+75.00	1276+75.00	Median	Perimeter and Slope	12 inch	240.00	For Culvert Extension
5.0	1277+25.00	1277+25.00	Right	Perimeter and Slope	12 inch	240.00	For Culvert Extension
6.0	1290+45.00	1290+45.00	Right	Perimeter and Slope	12 inch	240.00	For Culvert Extension
7.0	1299+40.00	1299+40.00	Right	Perimeter and Slope	12 inch	280.00	For Culvert Extension
8.0	1301+10.00	1301+10.00	Right	Perimeter and Slope	12 inch	280.00	For Culvert Extension
9.0	1306+50.00	1306+50.00	Left	Perimeter and Slope	12 inch	240.00	For Culvert Extension
10.0	1308+70.00	1308+70.00	Left	Perimeter and Slope	12 inch	240.00	For Culvert Extension
11.0	1310+15.00	1310+15.00	Right	Perimeter and Slope	12 inch	240.00	For Culvert Extension
12.0	1311+80.00	1311+80.00	Right	Perimeter and Slope	12 inch	240.00	For Culvert Extension
13.0	1314+05.00	1314+05.00	Median	Perimeter and Slope	12 inch	240.00	For Culvert Extension
14.0	1315+95.00	1315+95.00	Right	Perimeter and Slope	12 inch	240.00	For Culvert Extension
15.0	1318+60.00	1318+60.00	Median	Perimeter and Slope	12 inch	240.00	For Culvert Extension
16.0	1322+15.00	1322+15.00	Left	Perimeter and Slope	12 inch	240.00	For Culvert Extension
17.0	1324+80.00	1324+80.00	Left	Perimeter and Slope	12 inch	240.00	For Culvert Extension
18.0	1259+92.10	1339+90.00		Perimeter and Slope	12 inch	500.00	Place at Engineer's Discretion
19.0	+.00						Total 12" = 4,660 LF
20.0	+.00						Total 12" + 25% = 5,830 LF
21.0	1259+92.10	1339+90.00		Perimeter and Slope	20 inch	1000.00	Place at Engineer's Discretion
22.0	+.00						Total 20" = 1,000 LF
23.0	+.00						Total 20" + 25% = 1,250 LF

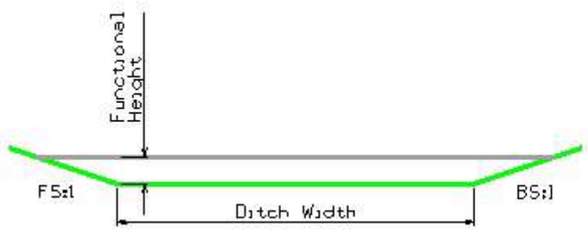
ROCK EROSION CONTROL

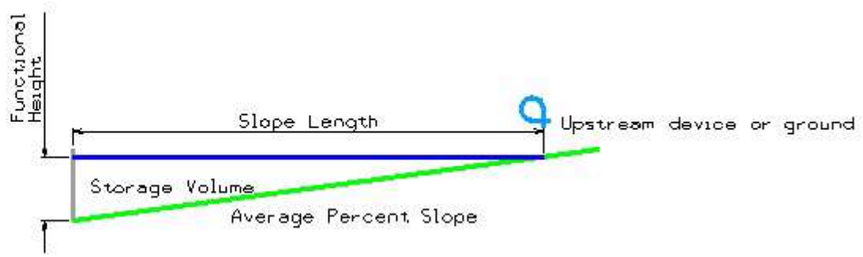
Refer to EC-301 and Detail 570-8

Line No.	Road Identification	Station From	Station To	Side	Length (FT)	Width (FT)	Rock Erosion Control Type	Engineering Fabric (SY)	Class E Revetment (TON)	Erosion Stone (TON)	Remarks
1.0	US 30	1268+88.75	1269+02.33	Left	10.50	10.5	Type 4 - Rock Splash Basin	23.4	11.580		
2.0	US 30	1269+08.77	1269+21.22	Left	10.50	10.5	Type 4 - Rock Splash Basin	23.4	11.580		
3.0	US 30	1276+40.01	1276+56.30	Left	12.70	12.7	Type 4 - Rock Splash Basin	31.0	16.940		
4.0	US 30	1276+64.41	1276+74.88	Left	10.50	10.5	Type 4 - Rock Splash Basin	23.4		13.230	
5.0	US 30	1276+64.41	1276+64.41	Right	10.50	10.5	Type 4 - Rock Splash Basin	23.4	11.580		
6.0	US 30	1277+19.58	1277+35.87	Right	12.70	12.7	Type 4 - Rock Splash Basin	31.0	16.940		
7.0	US 30	1290+44.18	1290+54.69	Right	10.50	10.5	Type 4 - Rock Splash Basin	23.4	11.580		
8.0	US 30	1290+49.36	1290+67.36	Right	18.00	18.0	Type 4 - Rock Splash Basin	53.8	34.020		
9.0	US 30	1299+99.66	1300+17.66	Right	18.00	18.0	Type 4 - Rock Splash Basin	53.8	34.020		
10.0	US 30	1306+49.93	1306+61.43	Left	11.60	11.5	Type 4 - Rock Splash Basin	26.9	14.000		
11.0	US 30	1308+64.22	1308+77.87	Left	11.60	11.5	Type 4 - Rock Splash Basin	26.9	14.000		
12.0	US 30	1310+15.62	1310+26.79	Right	10.50	10.5	Type 4 - Rock Splash Basin	23.4	11.580		
13.0	US 30	1311+74.02	1311+85.19	Right	10.50	10.5	Type 4 - Rock Splash Basin	23.4	11.580		
14.0	US 30	1315+72.91	1315+86.14	Right	10.50	10.5	Type 4 - Rock Splash Basin	23.4	11.580		
15.0	US 30	1322+20.57	1322+31.97	Left	10.50	10.5	Type 4 - Rock Splash Basin	23.4	11.580		
16.0	US 30	1324+66.97	1324+78.37	Left	10.50	10.5	Type 4 - Rock Splash Basin	23.4	11.580		
Total:								**457.4**	**234.14**	**13.23**	

TEMPORARY SEDIMENT CONTROL BASIN

Possible Standard: EC-601





* The functional height used in the volume equation is 95% of effective height. Effective height is 2.5 feet as shown in EC-601.
* Volume equation: [(1/4*(FS*H2))+(1/2*DW*H)+(1/4*(BS*H2))]*(H/Avg%Slope)

Line No.	Basin No.	Station	Side	Installation (Each)	Maintenance (Each)	Removal (Each)	Foreslope (FS:1)	Backslope (BS:1)	Ditch Width (FT)	Avgerage % Slope	Volume * (CF)	Remarks
1.0	1	1299+10.00	Right	1.0	3	1.0	4.0	5.0	50.0	0.3	570.53	
2.0	2	1298+65.00	Left	1.0	3	1.0	4.0	4.0	10.0	0.3	183.32	
3.0	3	1303+05.00	Right	1.0	3	1.0	4.0	4.0	20.0	0.4	208.00	
4.0	4	1302+85.00	Left	1.0	3	1.0	4.0	4.0	10.0	0.2	274.98	
Total:				**4**	**12**	**4**						

STORMWATER DRAINAGE BASIN

Refer to EC Standards and 570s Details.

Line No.	Basin No.	Station From	Station To	Side	Discharge Station	Discharge Side	Total Disturbed Area (ACRES)	Disturbed Area with Storage Provided (ACRES)	Disturbed Area without Storage Provided (ACRES)	Best Management Practice	Total Storage Volume Provided (CF)	Total Storage Volume Required (CF)	Storage Volume Met	Remarks
1.0	1	1277+32.00	1301+05.00	Right	1301+05.00	Right	3.8	3.8		Silt Fence for Ditch Check (EC-201)	95406.20	13680.0	Yes	Green Shading
2.0	2	1259+89.00	1300+77.48	Left	1300+77.48	Left	8.0	8.0		Silt Fence for Ditch Check (EC-201)	64638.60	28800.0	Yes	Red Shading
3.0	3	1302+66.50	1333+50.00	Right	1330+46.00	Right	6.0	6.0		Silt Fence for Ditch Check (EC-201)	28999.60	21600.0	Yes	Purple Shading
4.0	4	1302+50.00	1323+20.00	Left	1302+50.00	Left	3.5	3.5		Silt Fence for Ditch Check (EC-201)	21742.00	12600.0	Yes	Yellow Shading

POLLUTION PREVENTION PLAN

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed during construction, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The Contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITES

A. Designer:
1. Prepares Base PPP included in the project plan.
2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required.

B. Contractor:
1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).
5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2.
6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.
7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.
8. Submits amended PPP site map according to Section 2602 of the Standard Specifications.

C. Subcontractors:
1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or perorming work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Implement good housekeeping practices according to Paragraph III, C, 2.

D. RCE/Project Engineer:
1. Is Project Storm Water Manager.
2. On projects where DOT is the Contracting Authority, is current with erosion control training or certification.
3. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
4. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
5. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
6. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.
7. Is familiar with the Project PPP and storm water site map.
8. On projects where DOT is Contracting Authority, is responsible for periodically monitoring inspection reports to determine whether deficiencies identified in inspection reports were adequately and timely addressed, and if not, has the authority and responsibility to direct immediate actions to correct the deficiencies.
9. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
10. Is signature authority on Notice of Discontinuation.
11. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).
12. Makes information to determine permit compliance available to the DNR upon their request.

110_12
1/13/23

POLLUTION PREVENTION PLAN

E. Inspector:
1. Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
2. Makes information to determine permit compliance available to the DNR upon their request.
3. Conducts joint required inspections of the site with the contractor/subcontractor.
4. Completes an inspection report after each inspection.
5. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION

A. This Pollution Prevention Plan (PPP) is for the construction of a *Describe Type of Facility*.

B. This PPP covers approximately 78 acres with an estimated 21.3 acres being disturbed. The portion of the PPP covered by this contract has 21.3 acres disturbed.

C. The PPP is located in an area of one soil association (Clarion - Nicollet - Webster). The estimated weighted average runoff coefficient number for this PPP after completion will be 0.35.

D. Storm Water Site Map is located in the R sheets. Proposed slopes are shown in cross sections, details, or standard road plans. Supplemental information is located in the Tabulations in the C or CE sheets.

E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries and amended PPP site map.

F. Runoff from this work will flow into the South Skunk River.

III. CONTROLS

A. The Contractor's ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.

B. Preserve vegetation in areas not needed for construction.

C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries, amended PPP site map, or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water site inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.

1. EROSION AND SEDIMENT CONTROLS

a. Stabilization Practices
1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
a) Permanently ceased on any portion of the site, or
b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.
4) Permanent and Temporary Stabilization practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C or R sheets.
5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or R sheets. Additional information may be found in the Tabulations in the C or T Tabulation sheets, or is referenced in Section 2105 of the Standard Specifications.

b. Structural Practices
1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.
2) Structural practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found on the B or R sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C or R sheets.

POLLUTION PREVENTION PLAN

c. Storm Water Management
Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the storm water site map and Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or R sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation. The installation of these devices may be subject to Section 404 of the Clean Water Act.

2. OTHER CONTROLS
Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.

a. Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
b. Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
c. Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
d. Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
e. Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean up spills and prevent material discharges to the storm drain system and waters of the state.
f. Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
g. Concrete Grooving/Grinding Slurry – Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
h. Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
i. Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
j. Dewatering – Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.

3. APPROVED STATE OR LOCAL PLANS
During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES
The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS
A. Inspections shall be made jointly by the Contractor and the Contracting Authority's inspector at least once every seven calendar days. Storm water site inspections will include:
1. Date of the inspection.
2. Summary of the scope of the inspection.
3. Name and qualifications of the personnel making the inspection.
5. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
6. Major observations related to the implementation of the PPP.
7. Identification of corrective actions required to maintain or modify erosion and sediment control measures.

B. Include storm water site inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

VI. NON-STORM WATER DISCHARGES

110_12
1/13/23

POLLUTION PREVENTION PLAN

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION
Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS
A. Base PPP - Initial Pollution Prevention Plan.
B. Amended PPP - Base PPP amended during construction. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.
C. Fieldbook Entries – This contains the inspector's daily diary and bid item postings.
D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
E. Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature

Jeremey Vortherms
Printed or Typed Name

Chase Holien
Signature

Chase Holien
Printed or Typed Name

LINE STYLE LEGEND OF LANDSCAPE SHEETS

LINESTYLE	Design Element
– – – – – – – – – – – –	Living Snow Fence Single Row
⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝	Living Snow Fence Double Row
———	Mechanical Edge

CELL LEGEND OF LANDSCAPE SHEETS

CELL	Design Element	Plant Diameter
	Clearing	
	Proposed Shrub	6 FT
	Proposed Understory Tree	12 FT
	Proposed Conifer Tree	18 FT
	Proposed Overstory Tree	30 FT

PATTERN LEGEND OF LANDSCAPE SHEETS

Brush Clearing

Spray Area

Clearing & Grubbing

LINE STYLE LEGEND OF EROSION CONTROL SHEETS

LINESTYLE	Design Element
	Silt Fence
9	Perimeter and Slope Sediment Control Device (9")
12	Perimeter and Slope Sediment Control Device (12")
20	Perimeter and Slope Sediment Control Device (20")
	Open-Throat Curb Intake Sediment Filter
	Concentrated Flow
	Rock Check and Rock Check Dam
	Sheet Flow

CELL LEGEND OF EROSION CONTROL SHEETS

CELL	Design Element
	Temporary Sediment Control basin
	Erosion Control for Circular Intake or Manhole Well
	Erosion Control for Rectangular Intake or Manhole Well
	Grate Intake Sediment Filter Bag
	Silt Basin
	Silt Fence Tail
	Stormwater Drainage Basin Discharge Point

PLAN VIEW COLOR LEGEND OF EROSION CONTROL SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
Black	(0)	Permanent Erosion Control Features
Blaze Orange	(222)	Temporary Erosion Control Features

SHADING	Design Color No.		Transparency
Citron	(234)	Mulching, All Types	50%
Light Brown	(238)	Special Ditch Control, Wood Excelsior Mat	0%
Grass Green	(233)	8FT Mow Strip	50%
Red	(3)	Delineates Restricted Areas	0%

PATTERN LEGEND OF EROSION CONTROL SHEETS

Seeding and Fertilizing

R — Seeding and Fertilizing (Rural)

U — Seeding and Fertilizing (Urban)

N — Native Grass Seeding

ST — Salt Tolerant Seeding

WL — Wetland Grass Seeding

WF — Wildflower Seeding

SOD — Sodding

Turf Reinforcement Mat Type 1

Turf Reinforcement Mat Type 2

Turf Reinforcement Mat Type 3

Turf Reinforcement Mat Type 4

Slope Protection, Wood Excelsior Mat

Transition Mat

Rock Features, Permanent

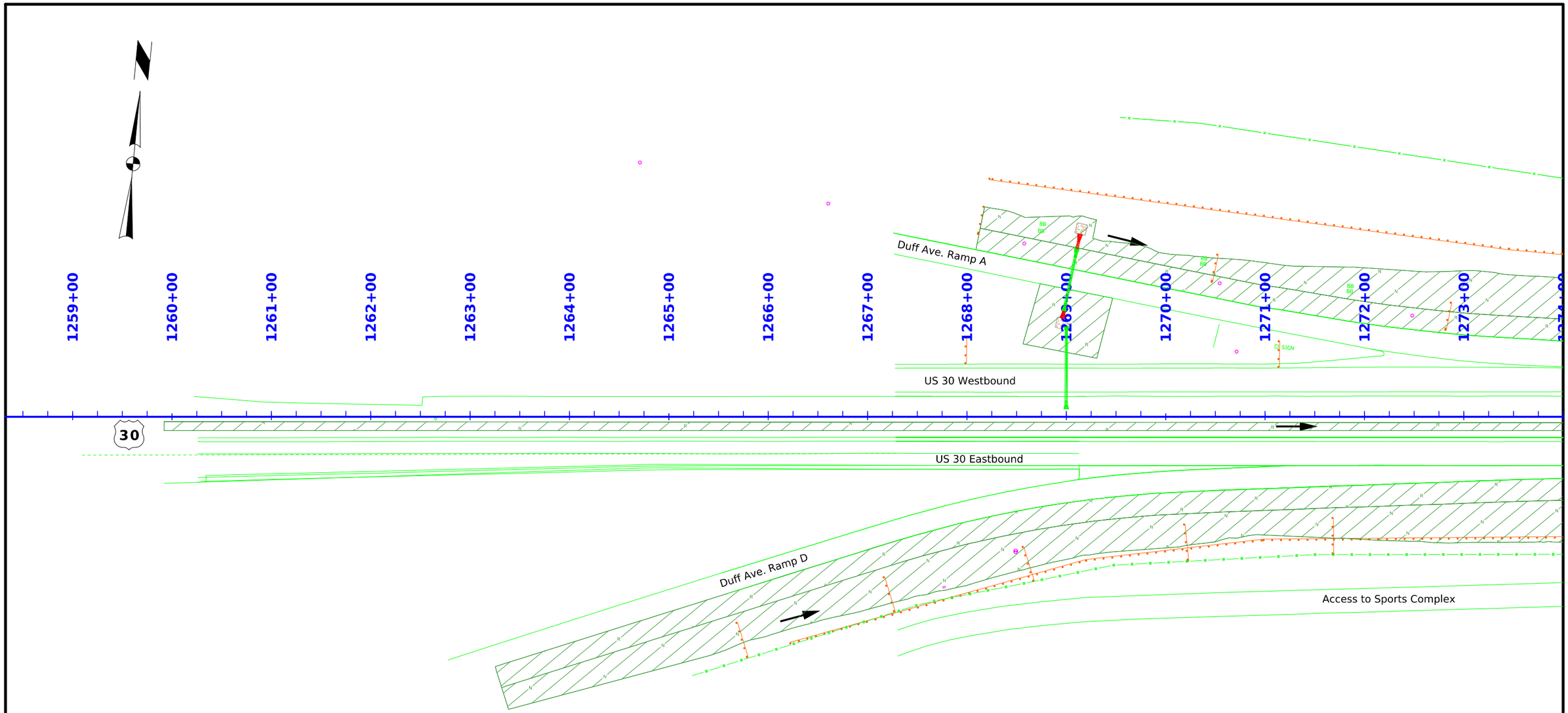
Rock Features, Temporary

EROSION CONTROL LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES R)

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **RR.1**	

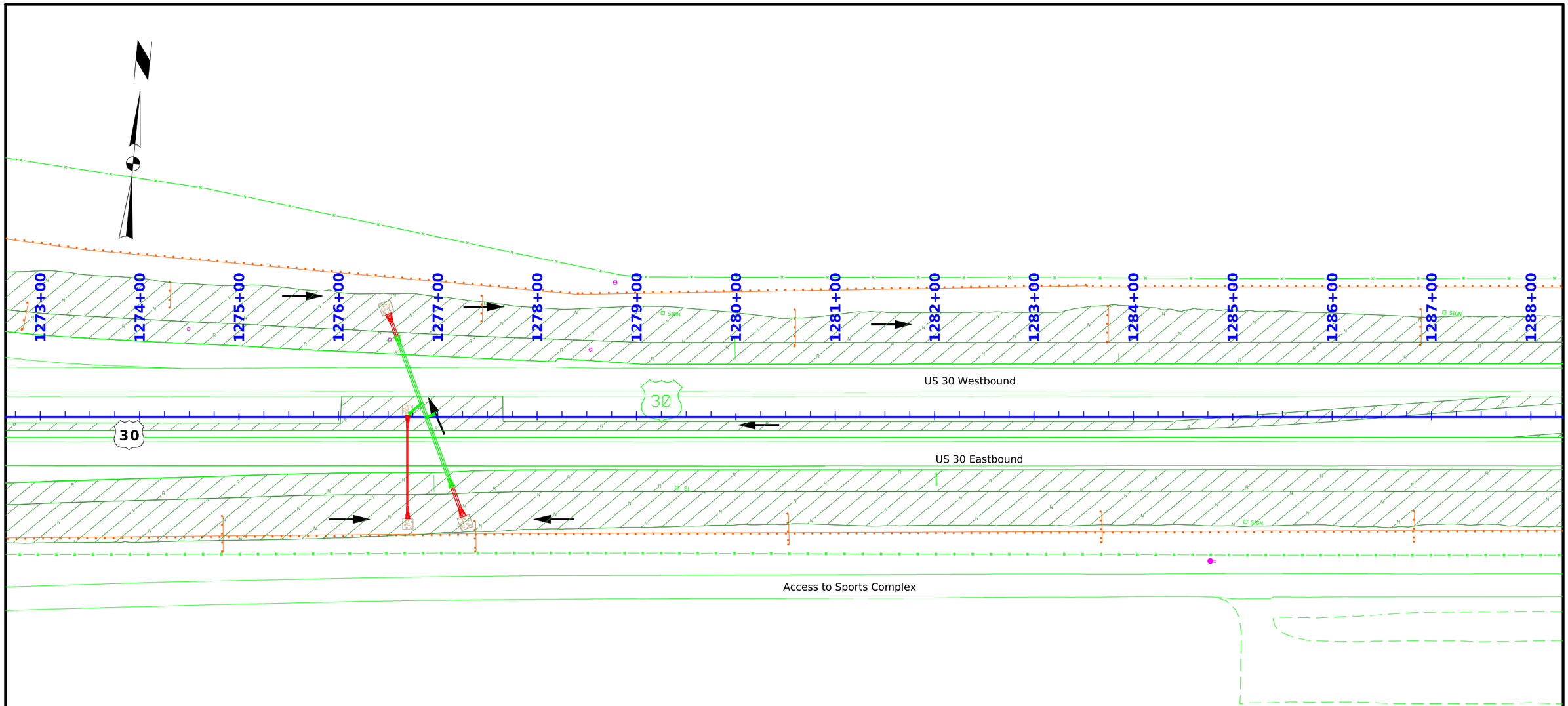
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Erosion Control Devices Layout

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **RR.2**	

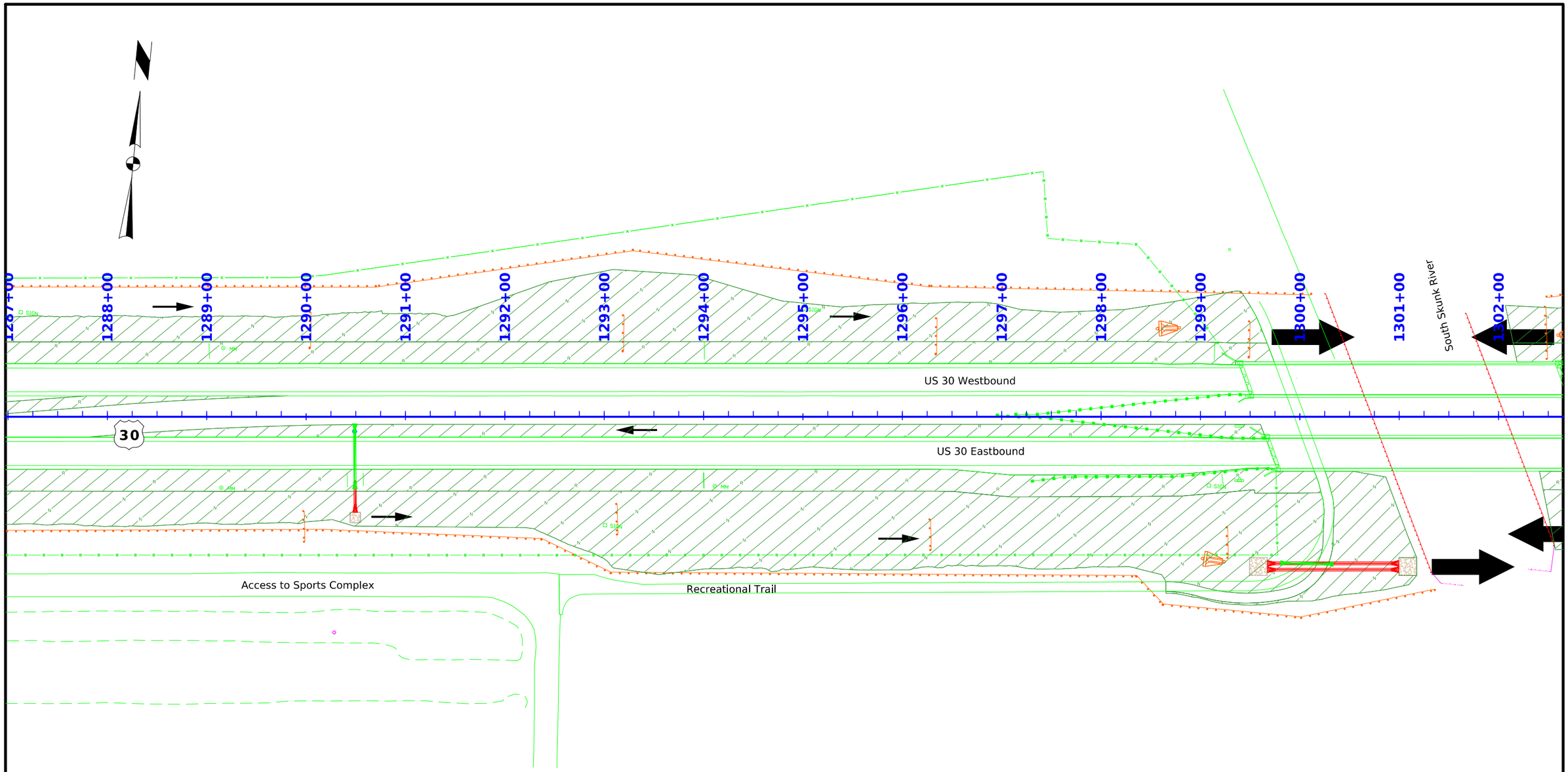
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Erosion Control Devices Layout

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **RR.3**

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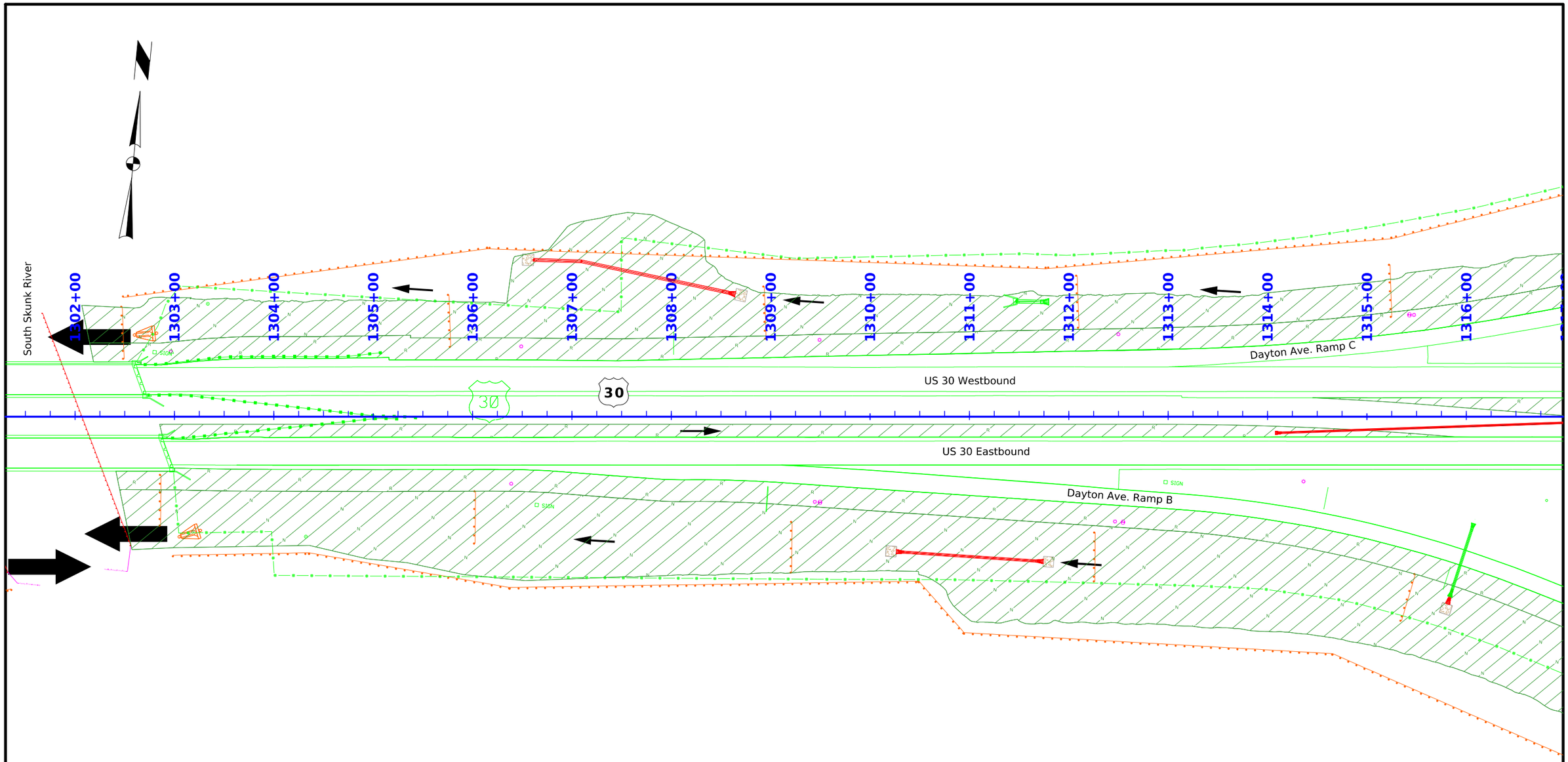


0 50
FEET

Erosion Control Devices Layout

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **RR.4**	

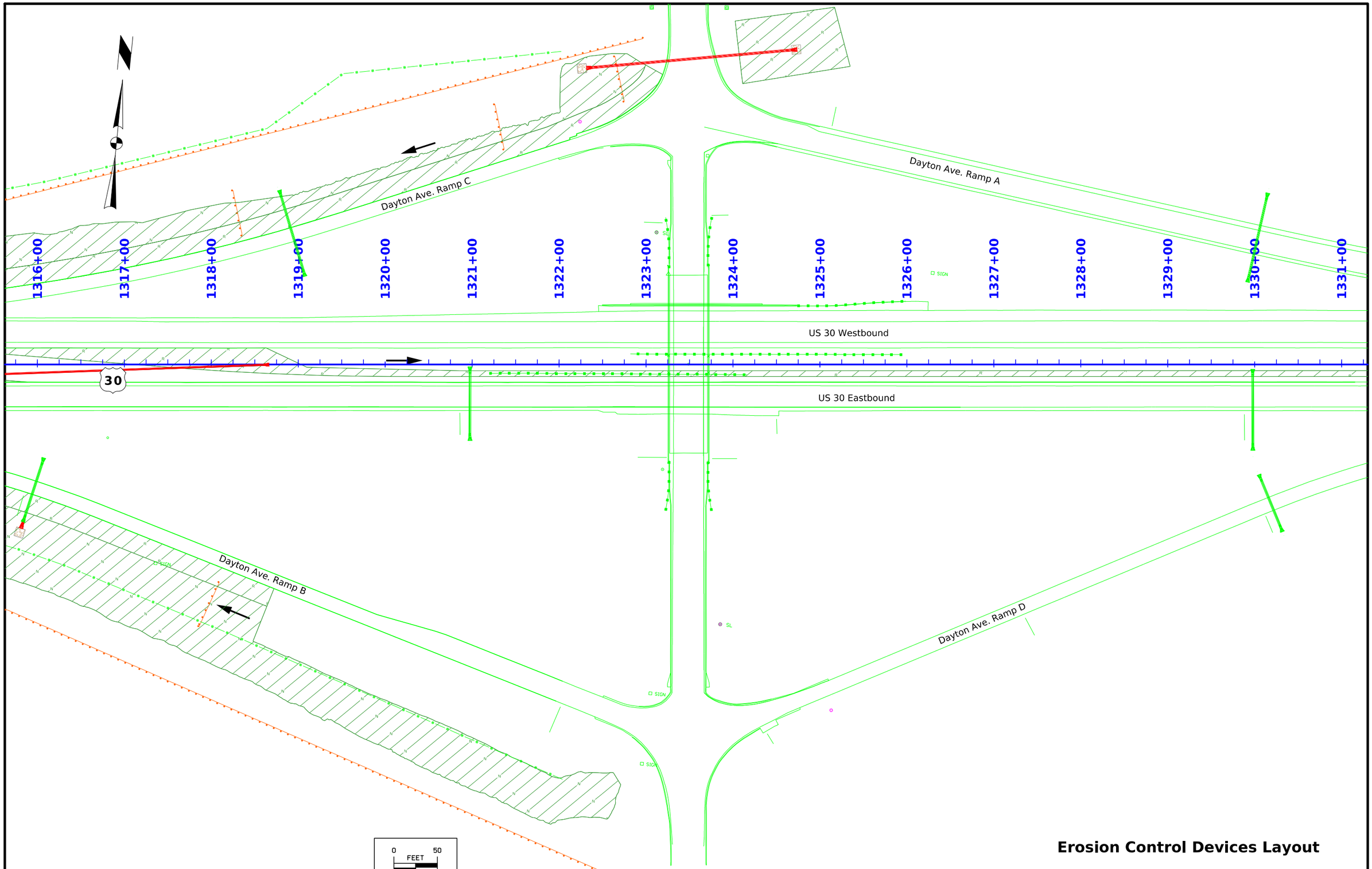
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Erosion Control Devices Layout

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **RR.5**

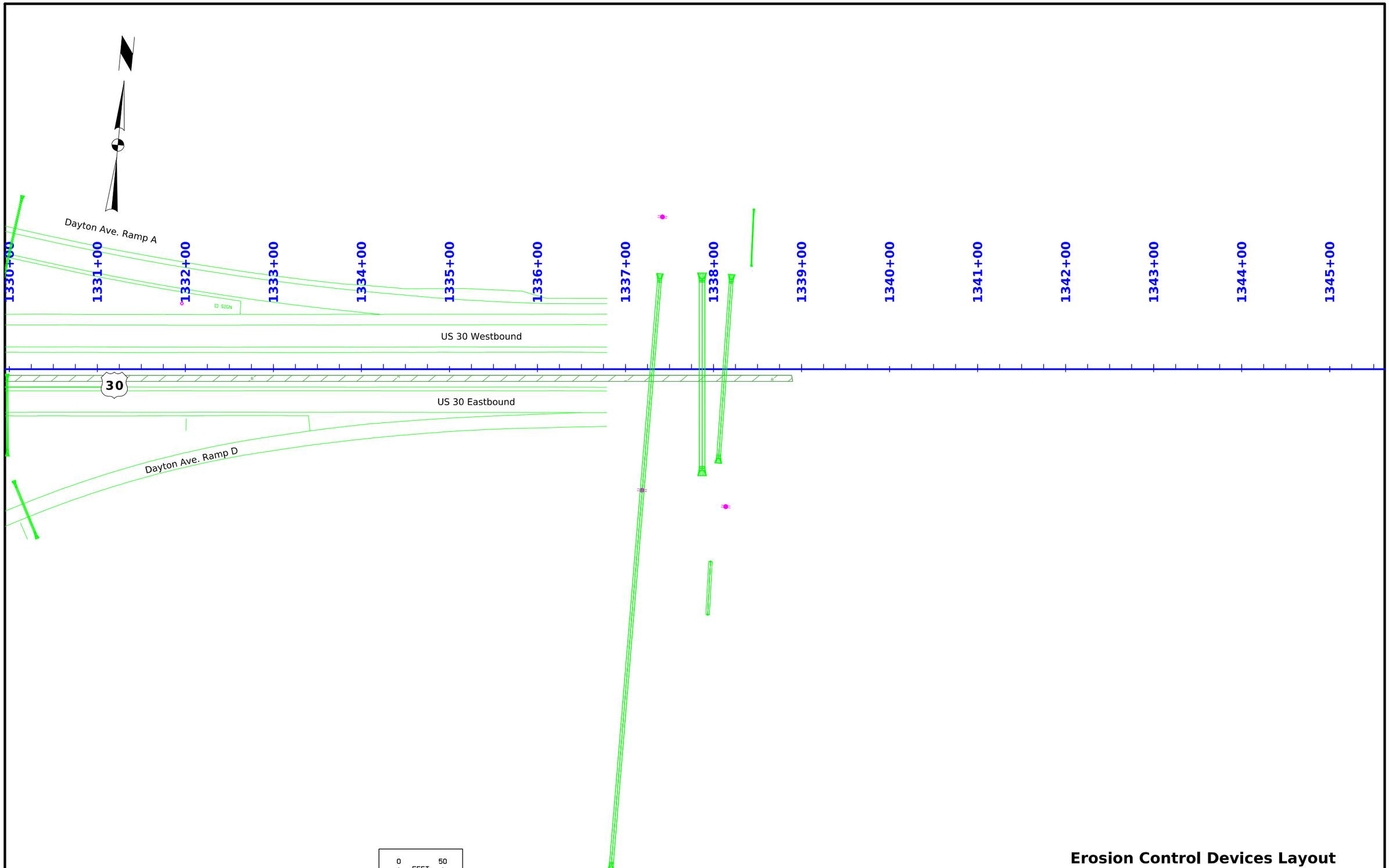
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Erosion Control Devices Layout

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **RR.6**

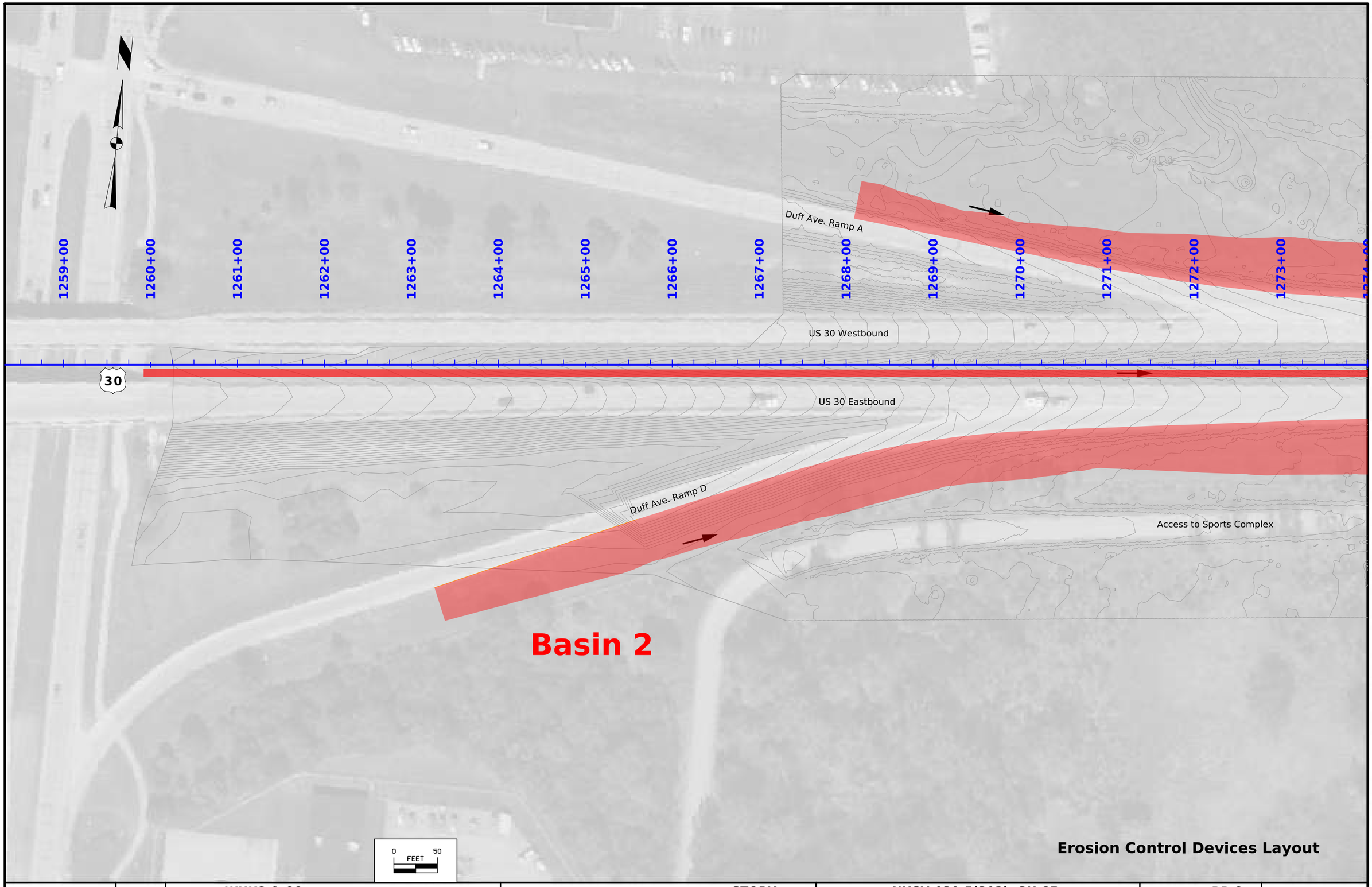
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Erosion Control Devices Layout

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **RR.7**	

14:11:21 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_RR01.dgn

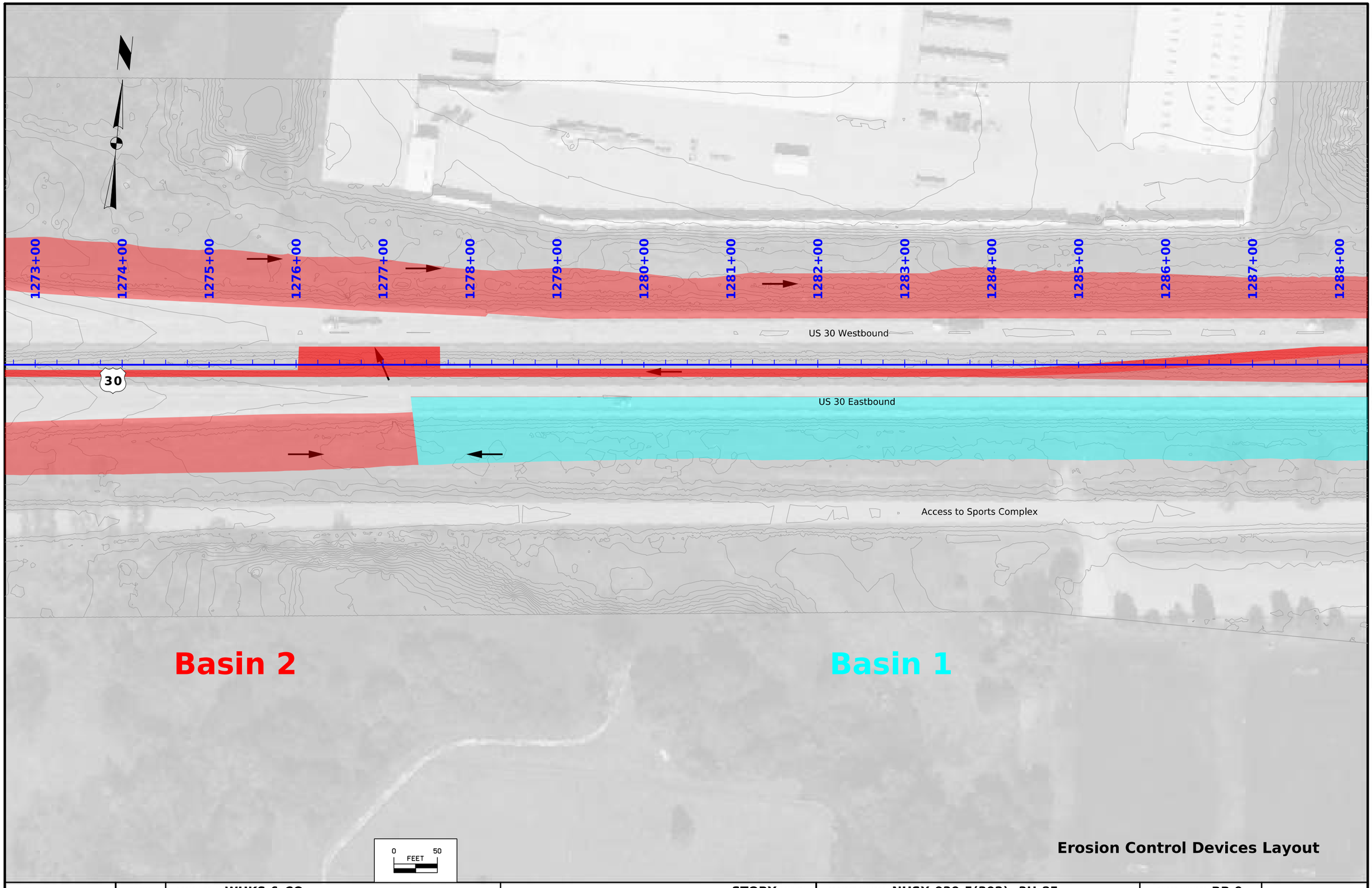


Erosion Control Devices Layout

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **RR.8**	

14:12:18 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_RR08.dgn

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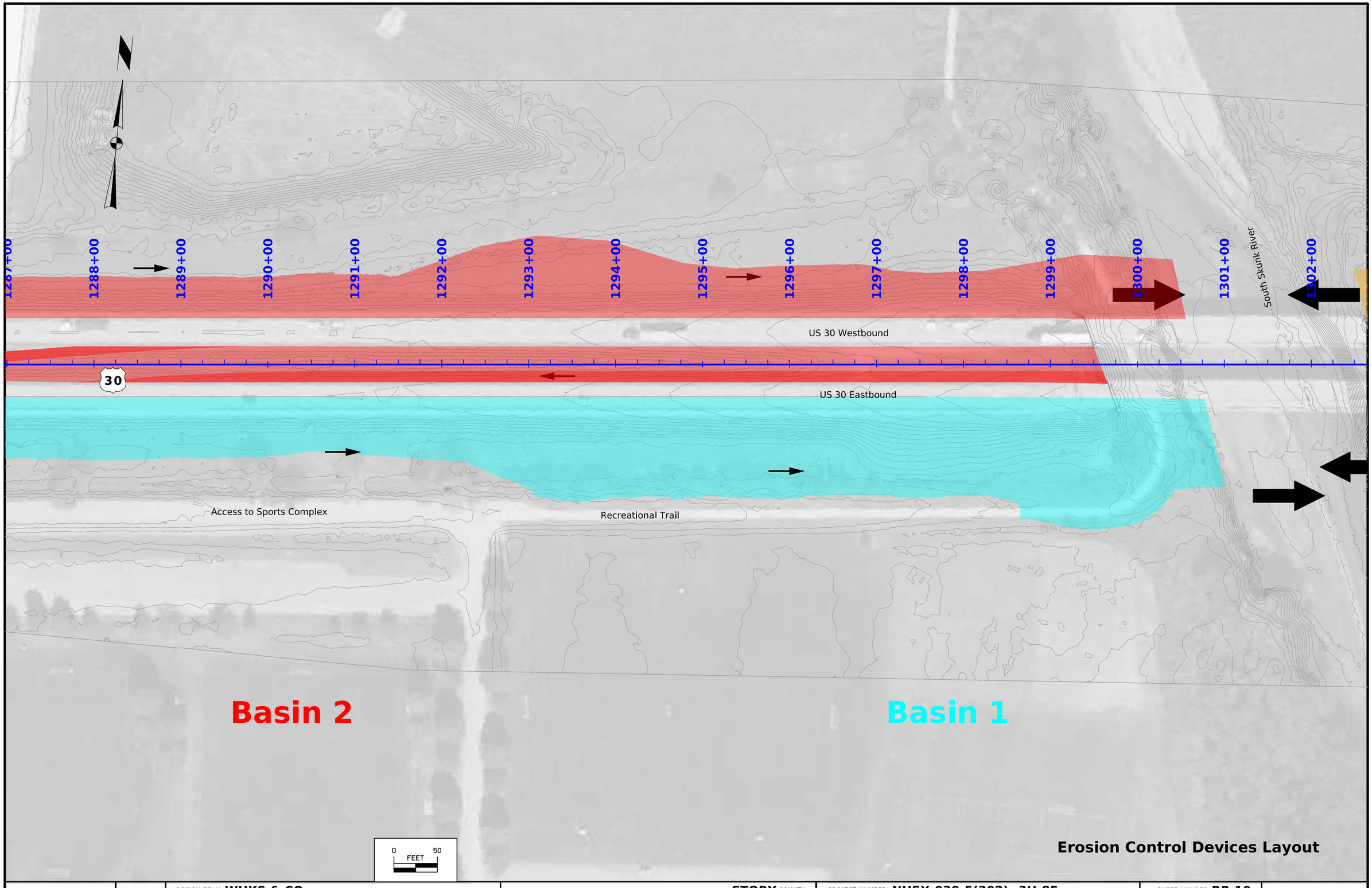


Erosion Control Devices Layout

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **RR.9**	

14:12:33 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_RR08.dgn

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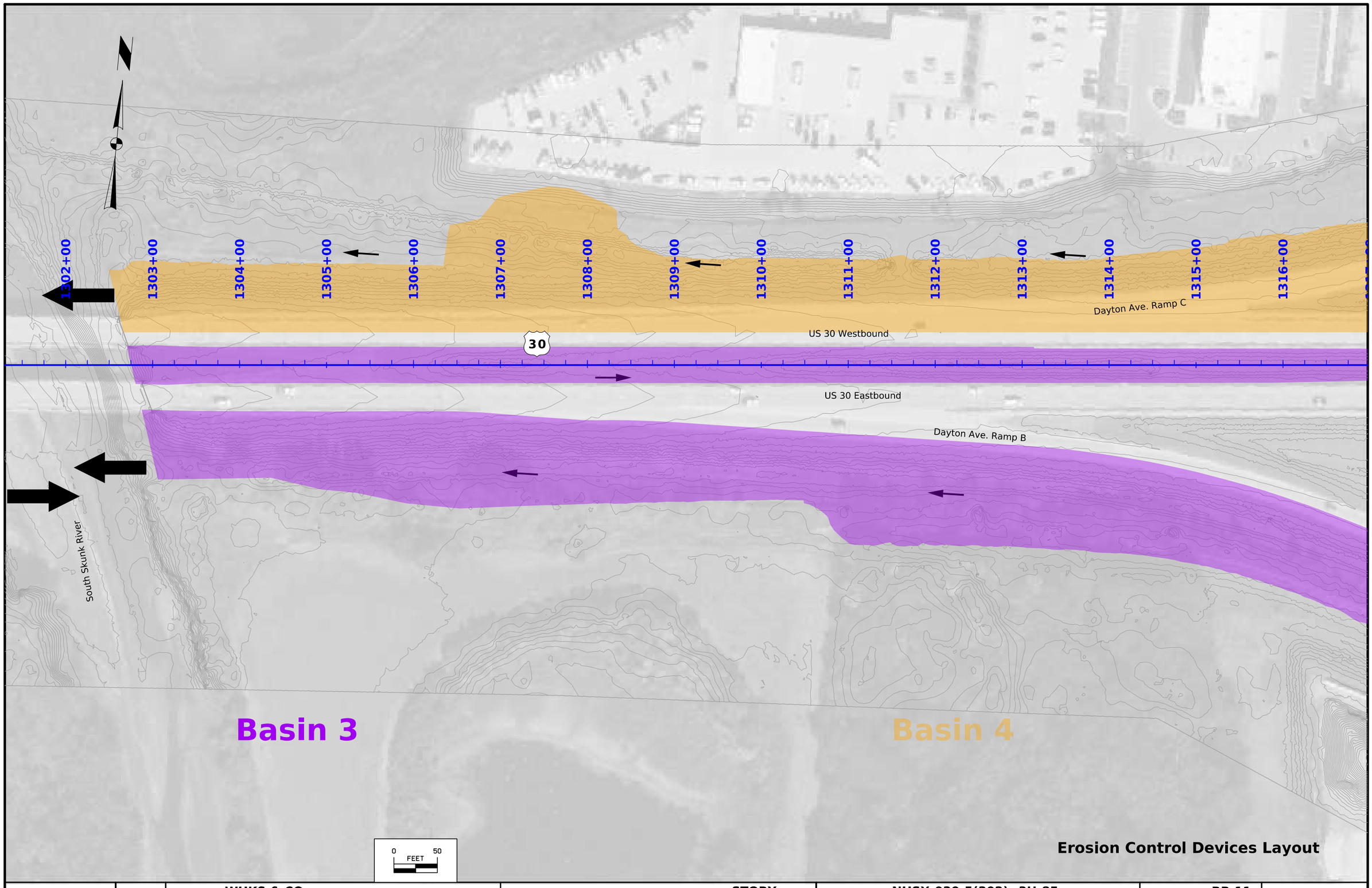


Erosion Control Devices Layout

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **RR.10**	

14:12:40 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_RR08.dgn

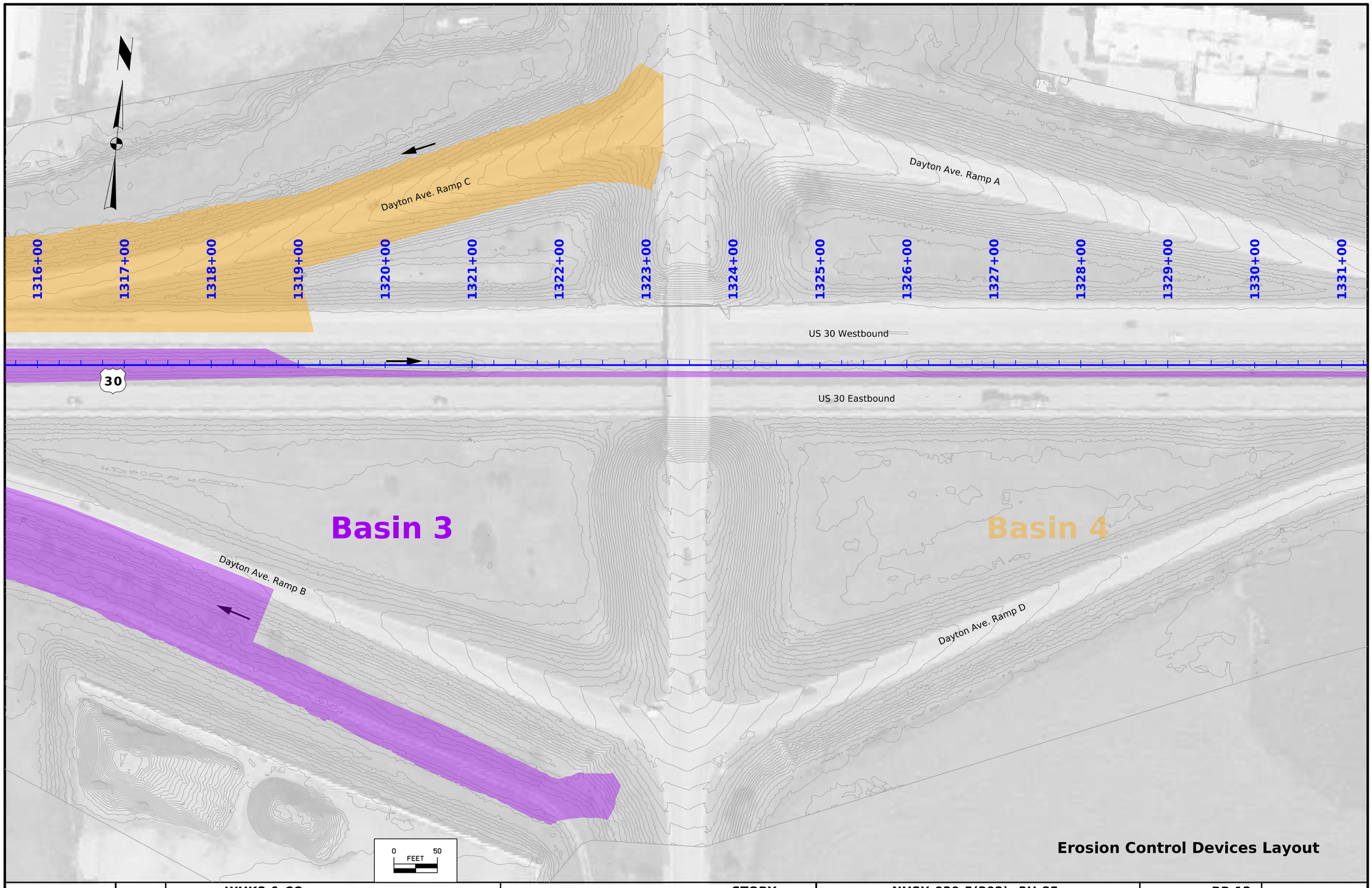
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FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **RR.11**

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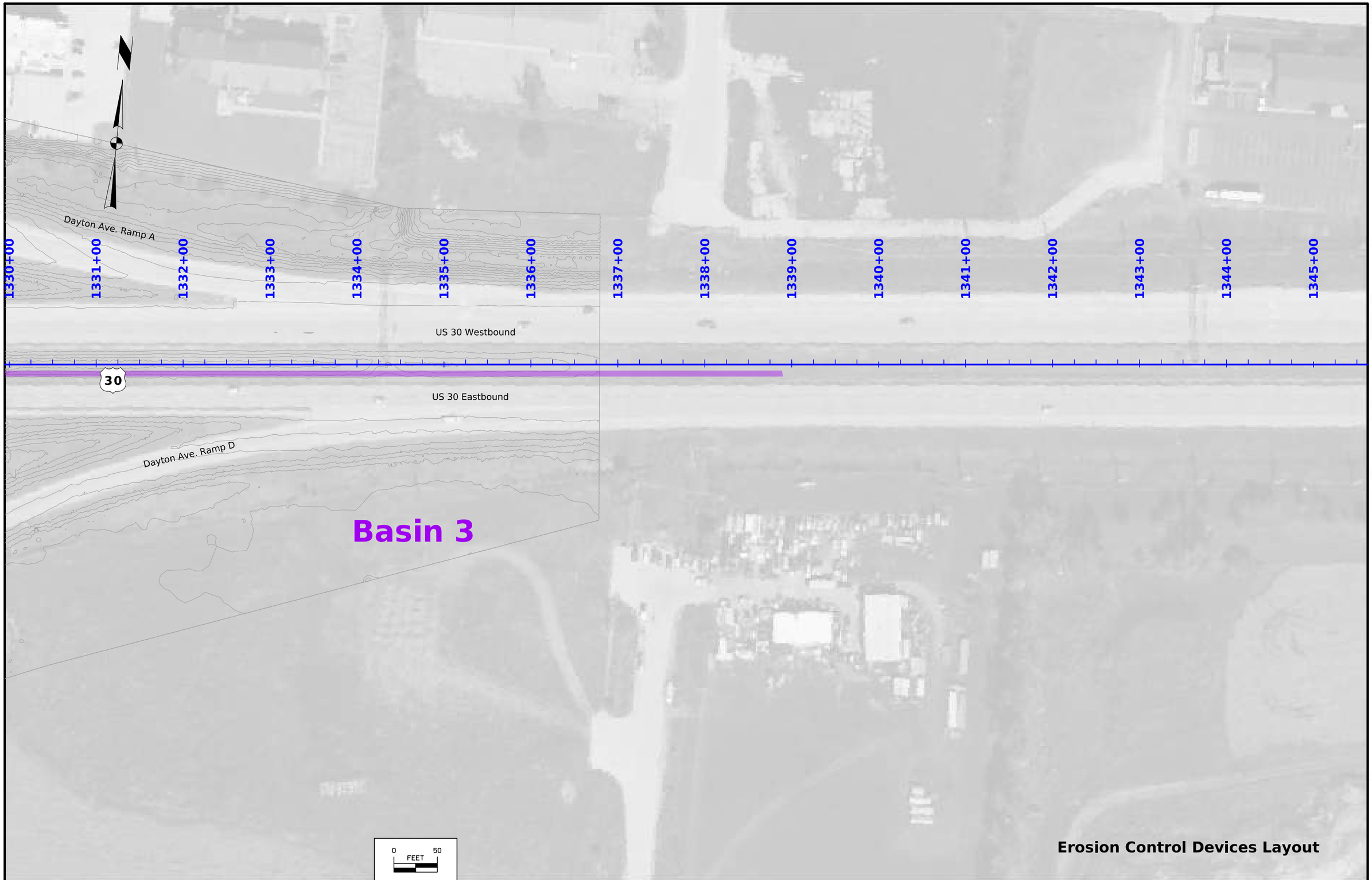


Erosion Control Devices Layout

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **RR.12**

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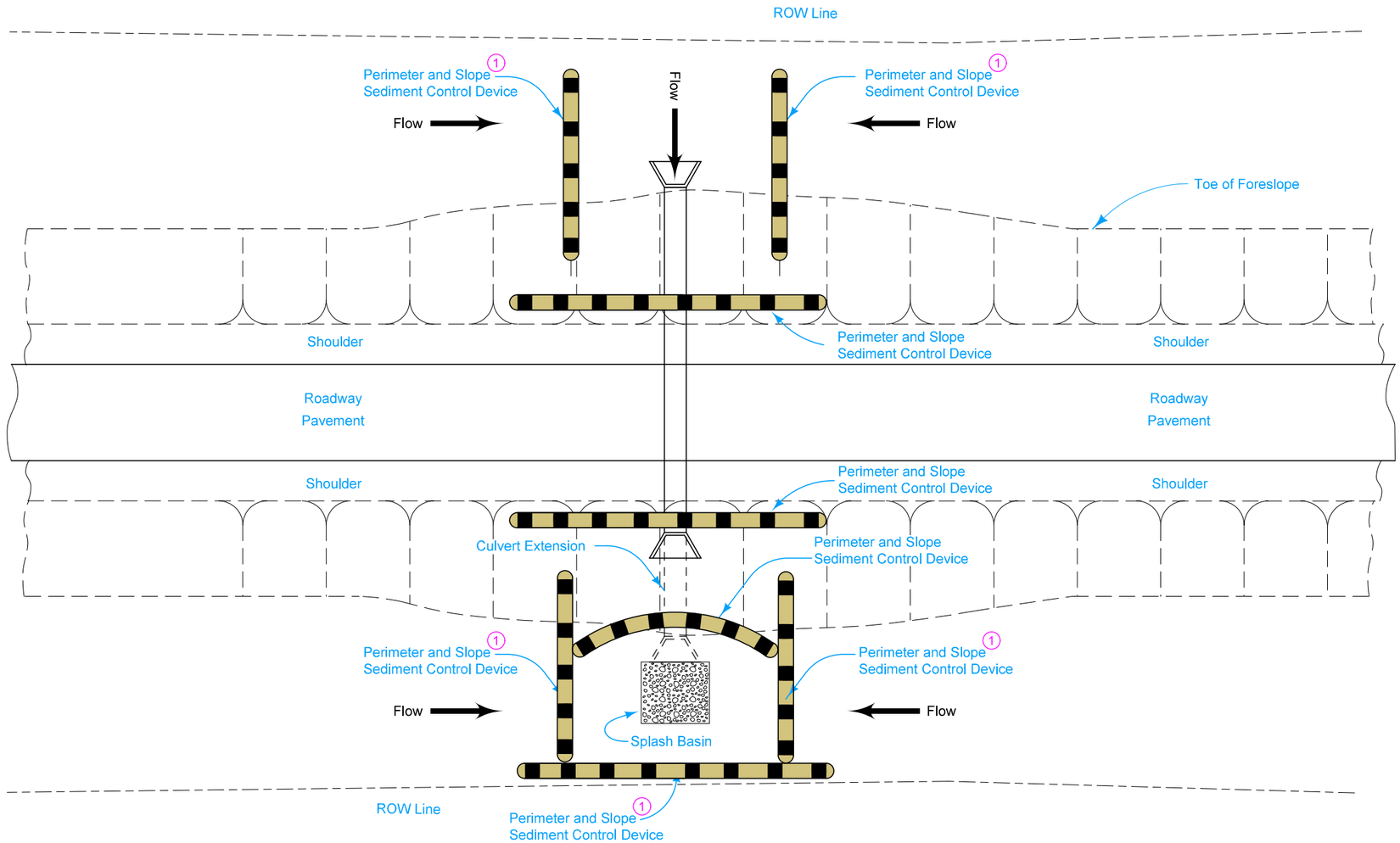
Erosion Control Devices Layout

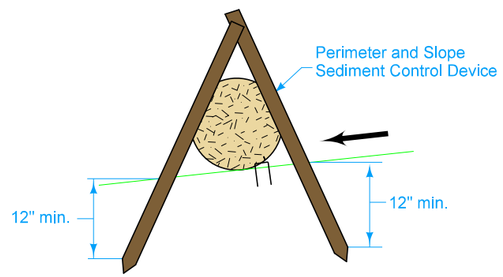
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14:13:05 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_RR08.dgn

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See Standard Road Plans EC-201, EC-204, and EC-301 for installation details.





(1) Silt Fence for Ditch Check may be substituted at no additional cost to the Contracting Authority.

Possible Contract Items:
Perimeter and Slope Sediment Control Device

Possible Tabulations:
100-19
100-23
100-34

REVISION	
1	10-19-21

ROAD DESIGN DETAIL

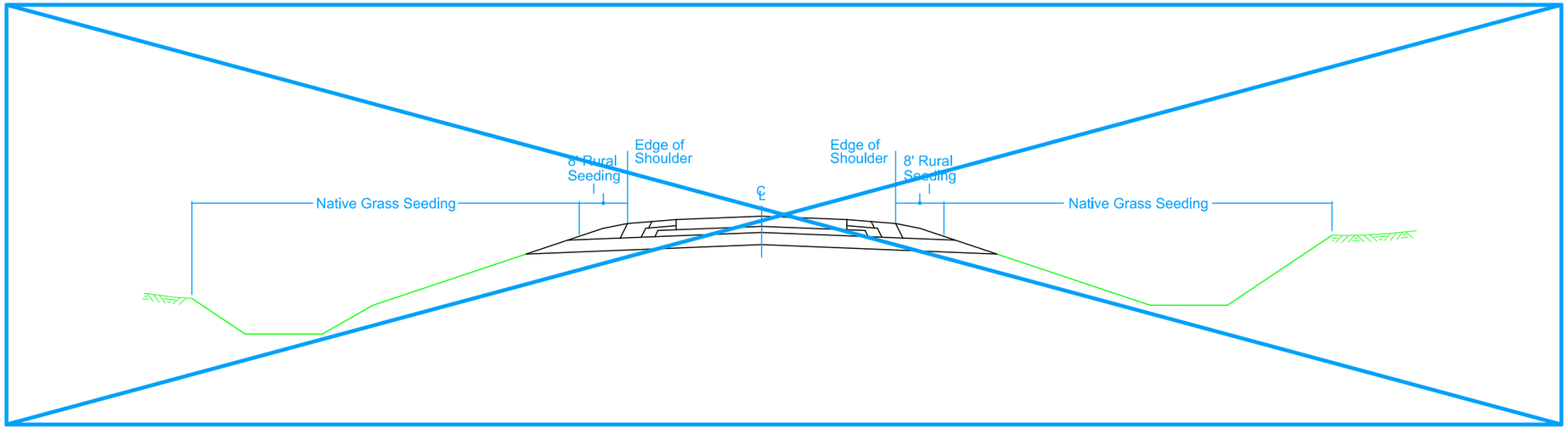
570-11

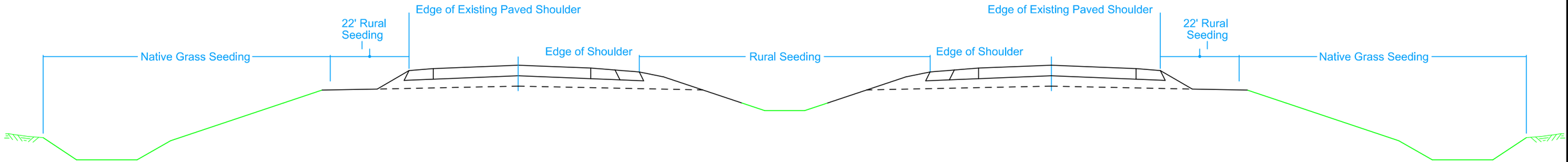
SHEET 1 of 1

TEMPORARY SEDIMENT CONTROL FOR CULVERT EXTENSION WITH EXPOSED SOIL

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **RU.1**

14:20:20 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_RU01.dgn





Refer to Cross Sections for Grading Details

REVISION	
New	04-21-15

STANDARD ROAD PLAN

EC-502

SHEET 1 of 1

REVISIONS: Revised Rural Seeding Width.

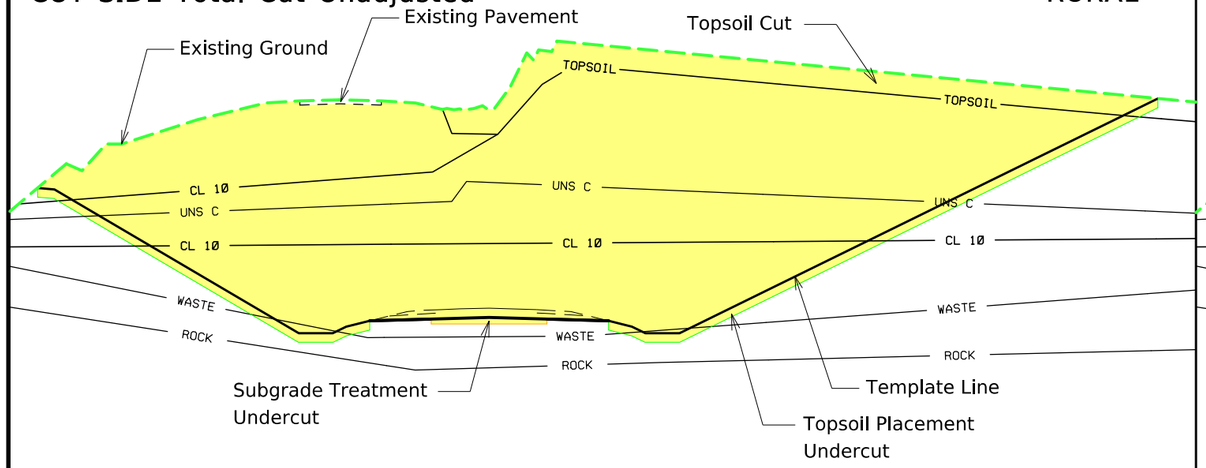
APPROVED BY DESIGN METHODS ENGINEER

SEEDING IN RURAL AREAS

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **RU.2**

14:20:21 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_RU01.dgn

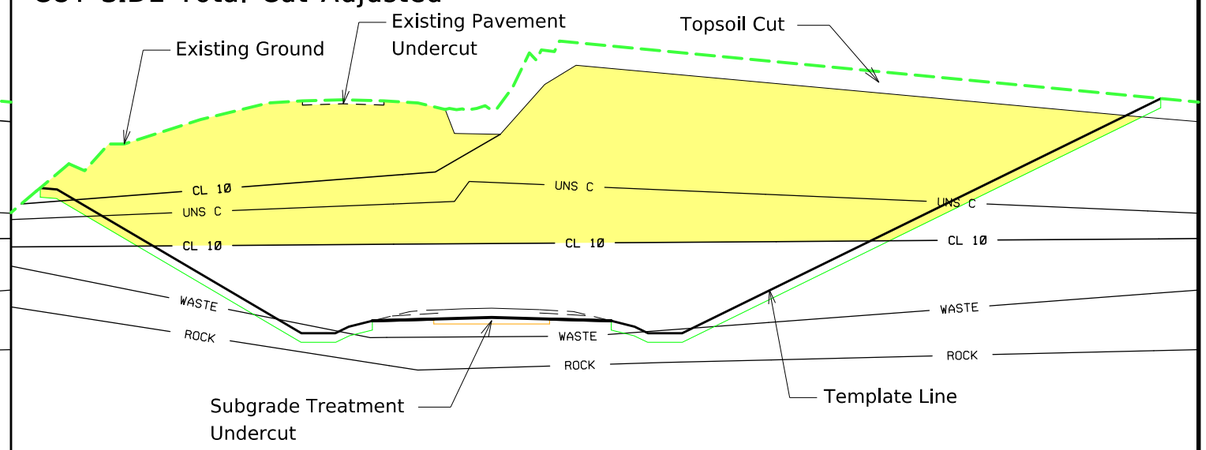
CUT SIDE Total Cut Unadjusted — RURAL



Notes:

1. "Total Cut Unadjusted" Column includes all cut values in the Station Range based on Typical, Topsoil and Subgrade Treatment needs.
2. "Total Cut Unadjusted" does not include and Existing Pavement values inside or outside the cut template as shown on cross sections.
3. Tabulated Plowing and Shaping operations are included in the "Total Cut Unadjusted" values.

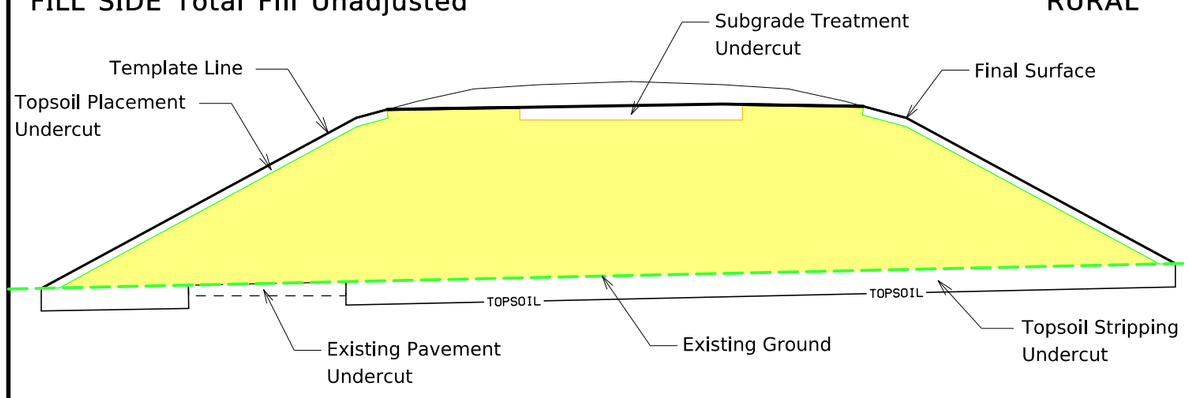
CUT SIDE Total Cut Adjusted



Notes:

1. "Total Cut Adjusted" Column includes all cut values usable as Class 10 material.
2. "Total Cut Adjusted" does not include and Existing Pavement , Existing Topsoil, or material to be wasted.

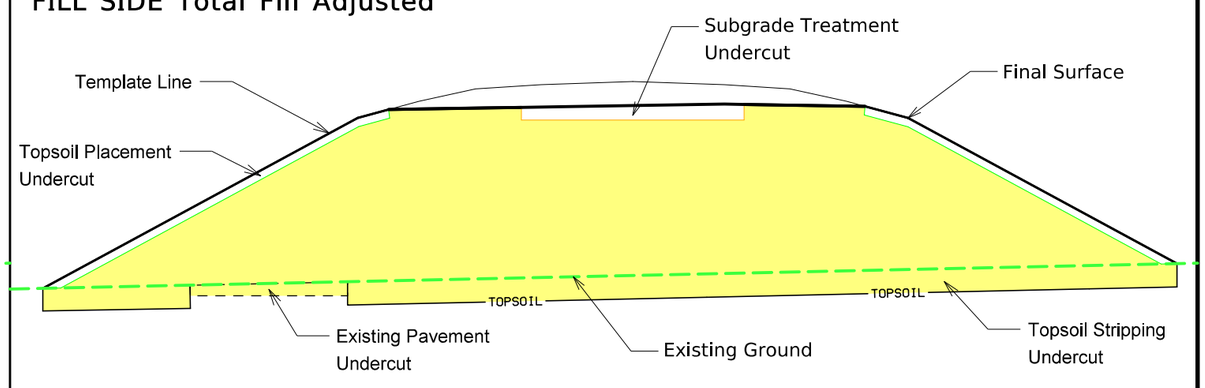
FILL SIDE Total Fill Unadjusted — RURAL



Notes:

1. "Total Fill Unadjusted" Column includes all Class 10, 12, and 13 fill. This excludes the topsoil, subgrade treatment, subbase, new pavement, and shoulder fill needs in that station range.
2. "Total Fill Unadjusted" Column does not include adjustments for additional fill from cuts such as existing pavement removed, plowing and shaping operations, entrances, dikes, or topsoil stripping.

FILL SIDE Total Fill Adjusted



Notes:

1. "Total Fill Adjusted" Column includes all Class 10, 12, and 13 fill and adjustments for additional fill from cuts such as existing pavement, plowing and shaping operations, entrances, dikes, and topsoil stripping.
2. The available area to place unsuitable materials in the T Sheet tabulation does not include the undercut values from the topsoil stripping, existing pavement, or plowing and shaping

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
US30EB																						
1281+31.89																						
1281+50.00	60	35	25	35	6		6	7	28	0	0	25	22	31	-6							
1281+75.00	63	29	34	29	7		7	10	20	0	0	34	30	42	-8							
1282+00.00	66	33	33	33	10		10	13	20	0	0	33	29	41	-8							
1282+25.00	63	31	32	31	11		11	15	16	0	0	32	28	40	-8							
1282+50.00	51	29	21	29	9		9	12	17	0	0	21	28	39	-18							
1282+75.00	52	30	22	30	9		9	11	19	0	0	22	28	40	-17							
1283+00.00	73	40	33	40	9		9	12	28	0	0	33	29	40	-7							
1283+25.00	73	39	34	39	8		8	10	29	0	0	34	29	41	-7							
1283+50.00	52	18	34	18	6		6	8	10	0	0	34	29	41	-7							
1283+75.00	51	17	33	17	7		7	9	8	0	0	33	28	39	-5							
1284+00.00	65	32	33	32	7		7	9	23	0	0	33	27	37	-4							
1284+25.00	66	33	33	33	5		5	7	26	0	0	33	27	38	-5							
1284+50.00	72	38	33	38	4		4	6	32	0	0	33	27	37	-4							
1284+75.00	74	40	33	40	7		7	9	32	0	0	33	28	39	-6							
1285+00.00	66	34	32	34	9		9	11	22	0	0	32	31	43	-11							
1285+25.00	65	33	32	33	9		9	12	21	0	0	32	32	44	-12							
1285+50.00	51	19	32	19	10		10	13	6	0	0	32	30	43	-11							
1285+75.00	46	15	31	15	10		10	14	2	0	0	31	28	39	-8							
1286+00.00	51	20	32	20	8		8	11	9	0	0	32	28	39	-7							
1286+25.00	58	26	32	26	8		8	10	16	0	0	32	32	45	-13							
1286+50.00	72	40	32	40	11		11	14	26	0	0	32	36	51	-19							
1286+75.00	66	35	30	35	12		12	16	20	0	0	30	36	50	-20							
1287+00.00	62	35	28	35	15		15	20	15	0	0	28	29	41	-14							
1287+25.00	55	30	26	30	17		17	22	8	0	0	26	24	34	-8							
1287+50.00	37	12	25	12	17		17	22	-10	0	0	25	24	34	-9							
1287+75.00	41	14	27	14	13		13	17	-2	0	0	27	27	38	-11							
1288+00.00	72	41	30	41	9		9	12	30	0	0	30	32	44	-14							
1288+25.00	78	46	32	46	11		11	14	32	0	0	32	34	48	-16							
1288+50.00	65	34	31	34	13		13	17	18	0	0	31	33	46	-15							
1288+75.00	59	30	29	30	12		12	16	14	0	0	29	28	40	-11							
1289+00.00	37	11	26	11	16		16	20	-10	0	0	26	22	31	-5							
1289+25.00	34	8	25	8	21		21	27	-19	0	0	25	22	31	-5							
1289+50.00	43	18	25	18	23		23	30	-12	0	0	25	23	32	-7							
1289+75.00	40	16	23	16	26		26	34	-18	0	0	23	19	27	-4							
1290+00.00	28	10	17	10	27		27	36	-25	0	0	17	9	13	5							
1290+25.00	22	10	12	10	26		26	34	-24	0	0	12	0	0	12							
1290+50.00	17	6	11	6	29		29	37	-31	0	0	11	0	0	11							
1290+75.00	22	11	12	11	26		26	34	-23	0	0	12	0	0	12							
1291+00.00	25	12	13	12	22		22	28	-16	0	0	13	0	0	13							
1291+25.00	18	7	12	7	25		25	32	-26	0	0	12	0	0	12							
1291+50.00	16	5	11	5	27		27	35	-30	0	0	11	2	2	9							
1291+75.00	17	6	11	6	29		29	38	-32	0	0	11	2	2	9							
1292+00.00	18	6	12	6	30		30	39	-33	0	0	12	0	0	12							
1292+25.00	18	6	11	6	37		37	48	-41	0	0	11	0	0	11							
1292+50.00	51	32	19	32	53		53	69	-37	0	0	19	20	28	-9							
1292+75.00	83	64	19	64	68		68	89	-25	0	0	19	20	28	-9							
1293+00.00	100	89	11	89	81		81	105	-16	0	0	11	0	0	11							
1293+25.00	134	122	12	122	89		89	116	5	0	0	12	0	0	12							
1293+50.00	152	139	13	139	97		97	126	13	0	0	13	0	0	13							
1293+75.00	147	135	12	135	102		102	132	3	0	0	12	0	0	12							
1294+00.00	143	132	11	132	103		103	134	-3	0	0	11	0	0	11							
1294+25.00	150	139	11	139	102		102	133	6	0	0	11	0	0	11							
1294+50.00	184	153	31	153	90		90	118	36	0	0	31	117	164	-133							
1294+75.00	191	139	53	139	76		76	98	40	0	0	53	239	335	-282							
1295+00.00	159	107	52	107	71		71	92	15	0	0	52	228	319	-268							
1295+25.00	151	102	49	102	72		72	94	9	0	0	49	219	307	-258							
1295+50.00	193	144	50	144	78		78	101	43	0	0	50	241	338	-288							
1295+75.00	197	147	51	147	86		86	112	35	0	0	51	267	375	-324							
1296+00.00	186	135	50	135	92		92	119	16	0	0	50	274	384	-333							
1296+25.00	181	132	49	132	97		97	126	6	0	0	49	264	369	-321							
1296+50.00	238	190	47	190	104		104	136	55	0	0	47	254	356	-309							
1296+75.00	243	196	47	196	95		95	123	73	0	0	47	249	348	-301							
1297+00.00	234	183	51	183	50		50	65	118	0	0	51	249	349	-298							
1297+25.00	268	209	58	209	11		11	15	195	0	0	58	267	374	-316							
1297+50.00	277	214	63	214	4		4	5	209	0	0	63	292	409	-346							
1297+75.00	272	210	62	210	10		10	12	198	0	0	62	294	412	-350							
1298+00.00	275	217	58	217	18		18	24	193	0	0	58	280	393	-335							
Subtotals:	6,391	4,372	2,019	4,372	2,301	0	2,301	2,995	1,379	0	0	2,019	4,745	6,646	-4,630							

FILE NO.		DESIGN TEAM WHKS & CO.		STORY	COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER T.2	

7/31/2024 10:33:44 AM cholien c:\pw_work\pwmain\chase.holien\d1931257\85-030-302_t01.xlsm

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut				Fill					Checks (EW-102)		Topsoil									
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
1298+00.00	264	209	55	209	27		27	36	174	0	0	55	272	381	-326							
1298+25.00	236	183	53	183	50		50	65	118	0	0	53	282	395	-341							
1298+50.00	223	173	50	173	88		88	115	59	0	0	50	304	426	-376							
1298+75.00	273	225	47	225	130		130	169	56	0	0	47	323	452	-405							
1299+00.00	277	228	49	228	171		171	222	6	0	0	49	335	469	-420							
1299+25.00	313	262	51	262	194		194	253	9	0	0	51	344	481	-430							
1299+50.00	332	282	49	282	280		280	364	-81	0	0	49	363	508	-459							
1299+75.00	109	86	23	86	180		180	234	-149	0	0	23	189	265	-242							
1300+00.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1300+25.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1300+50.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1300+75.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1301+00.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1301+25.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1301+50.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1301+75.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1302+00.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1302+25.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1302+50.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1302+75.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1303+00.00	0	0	0	0	196		196	254	-254	0	0	0	13	19	-19							
1303+25.00	5	0	4	0	267		267	348	-347	0	0	4	23	33	-28							
1303+50.00	30	19	11	19	118		118	154	-134	0	0	11	20	28	-17							
1303+75.00	34	20	14	20	78		78	101	-81	0	0	14	20	28	-14							
1304+00.00	41	27	14	27	55		55	72	-46	0	0	14	20	28	-14							
1304+25.00	40	26	14	26	55		55	71	-45	0	0	14	22	31	-17							
1304+50.00	19	5	14	5	62		62	81	-75	0	0	14	24	33	-19							
1304+75.00	20	7	13	7	53		53	69	-62	0	0	13	23	33	-19							
1305+00.00	48	34	15	34	45		45	59	-26	0	0	15	24	33	-19							
1305+25.00	50	33	16	33	41		41	53	-20	0	0	16	24	33	-17							
1305+50.00	47	31	17	31	34		34	45	-14	0	0	17	19	27	-10							
1305+75.00	47	31	17	31	38		38	50	-19	0	0	17	18	26	-9							
1305+80.00	10	6	3	6	8		8	11	-4	0	0	3	4	6	-3							
US30EB																						
Totals:	8,809	6,260	2,550	6,260	4,472	0	4,472	5,817	444	0	0	2,550	7,412	10,380	-7,833							

FILE NO.		DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER T.3	

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
US30WB																						
1279+00.53																						
1279+25.00	33	16	17	16	36	8	44	58	-42	0	0	17	31	44	-27							
1279+50.00	32	15	17	15	42	9	50	65	-51	0	0	17	26	37	-20							
1279+75.00	26	13	13	13	44	6	51	66	-53	0	0	13	14	19	-6							
1280+00.00	22	10	12	10	45	7	51	67	-57	0	0	12	0	0	12							
1280+25.00	24	10	14	10	46	10	56	72	-63	0	0	14	0	0	14							
1280+50.00	24	10	14	10	41	9	50	66	-56	0	0	14	0	0	14							
1280+75.00	24	10	14	10	40	9	49	64	-54	0	0	14	0	0	14							
1281+00.00	24	9	15	9	48	10	58	76	-67	0	0	15	0	0	15							
1281+25.00	24	9	15	9	52	11	62	81	-72	0	0	15	6	9	7							
1281+50.00	20	8	13	8	56	8	64	83	-75	0	0	13	6	9	4							
1281+75.00	19	7	12	7	57	7	64	84	-76	0	0	12	0	0	12							
1282+00.00	21	7	14	7	57	10	67	87	-80	0	0	14	0	0	14							
1282+25.00	19	8	12	8	59	7	66	86	-78	0	0	12	0	0	12							
1282+50.00	21	9	13	9	59	8	67	87	-78	0	0	13	6	8	4							
1282+75.00	24	8	16	8	59	11	70	91	-83	0	0	16	11	16	0							
1283+00.00	24	8	15	8	61	11	71	93	-85	0	0	15	5	8	8							
1283+25.00	21	9	12	9	62	8	69	90	-82	0	0	12	0	0	12							
1283+50.00	26	13	13	13	59	7	66	86	-74	0	0	13	16	23	-10							
1283+75.00	35	17	18	17	57	10	67	87	-69	0	0	18	38	53	-35							
1284+00.00	37	18	18	18	58	10	67	88	-69	0	0	18	41	57	-39							
1284+25.00	33	15	18	15	62	10	72	94	-79	0	0	18	33	46	-29							
1284+50.00	28	12	17	12	67	10	77	100	-89	0	0	17	22	31	-14							
1284+75.00	28	11	17	11	69	11	79	103	-92	0	0	17	20	28	-12							
1285+00.00	28	11	17	11	68	11	79	102	-91	0	0	17	22	31	-14							
1285+25.00	27	11	17	11	61	10	72	94	-83	0	0	17	18	26	-9							
1285+50.00	26	10	16	10	59	11	70	91	-81	0	0	16	16	23	-7							
1285+75.00	22	9	13	9	60	8	68	88	-79	0	0	13	9	12	1							
1286+00.00	21	9	12	9	59	7	66	86	-76	0	0	12	0	0	12							
1286+25.00	24	9	15	9	57	10	67	87	-78	0	0	15	0	0	15							
1286+50.00	24	10	14	10	57	10	66	86	-77	0	0	14	0	0	15							
1286+75.00	24	10	15	10	57	10	66	86	-77	0	0	15	0	0	15							
1287+00.00	24	10	15	10	56	10	66	86	-76	0	0	15	0	0	15							
1287+25.00	24	10	15	10	56	10	66	86	-77	0	0	15	0	0	15							
1287+50.00	24	9	15	9	59	10	69	89	-80	0	0	15	0	0	15							
1287+75.00	24	9	15	9	61	10	71	93	-83	0	0	15	0	0	15							
1288+00.00	24	9	15	9	62	10	72	94	-84	0	0	15	0	0	15							
1288+25.00	24	9	15	9	63	10	73	95	-86	0	0	15	0	0	15							
1288+50.00	23	9	15	9	61	10	71	92	-84	0	0	15	0	0	15							
1288+75.00	24	9	15	9	59	10	69	90	-81	0	0	15	0	0	15							
1289+00.00	24	10	15	10	62	10	72	94	-84	0	0	15	0	0	15							
1289+25.00	24	9	15	9	65	10	75	98	-89	0	0	15	0	0	15							
1289+50.00	24	9	15	9	65	10	75	98	-89	0	0	15	0	0	15							
1289+75.00	24	9	15	9	64	10	74	97	-87	0	0	15	0	0	15							
1290+00.00	24	9	15	9	64	10	74	96	-87	0	0	15	0	0	15							
1290+25.00	25	9	15	9	61	10	72	94	-84	0	0	15	0	0	15							
1290+50.00	25	10	16	10	56	11	67	87	-77	0	0	16	0	0	16							
1290+75.00	22	10	12	10	51	8	59	76	-67	0	0	12	0	0	13							
1291+00.00	23	10	12	10	46	7	54	70	-60	0	0	12	3	4	8							
1291+25.00	27	11	16	11	40	10	50	65	-55	0	0	16	6	9	7							
1291+50.00	27	11	15	11	38	10	48	63	-51	0	0	15	6	8	7							
1291+75.00	26	12	15	12	38	9	48	62	-50	0	0	15	4	6	9							
1292+00.00	27	12	15	12	40	10	49	64	-52	0	0	15	1	2	13							
1292+25.00	31	9	22	9	46	13	60	78	-69	0	0	22	1	2	21							
1292+50.00	51	6	44	6	63	25	88	114	-108	0	0	44	9	13	31							
1292+75.00	85	20	64	20	74	33	107	139	-119	0	0	64	31	43	21							
1293+00.00	126	51	76	51	73	34	106	138	-88	0	0	76	88	123	-47							
1293+25.00	161	77	85	77	77	35	112	145	-68	0	0	85	145	202	-118							
1293+50.00	172	87	85	87	83	35	118	154	-67	0	0	85	146	204	-119							
1293+75.00	173	90	83	90	86	36	122	159	-69	0	0	83	130	182	-98							
1294+00.00	164	83	81	83	91	36	127	166	-83	0	0	81	116	162	-81							
1294+25.00	127	52	75	52	96	36	132	172	-120	0	0	75	85	118	-43							
1294+50.00	66	16	50	16	88	27	115	149	-133	0	0	50	35	49	1							
1294+75.00	32	3	28	3	81	17	99	128	-125	0	0	28	5	8	21							
1295+00.00	29	6	23	6	88	15	102	133	-127	0	0	23	8	11	12							
1295+25.00	26	9	17	9	96	13	108	141	-132	0	0	17	10	14	3							
1295+50.00	26	9	18	9	105	13	118	153	-145	0	0	18	11	16	2							
1295+75.00	27	9	18	9	117	14	130	169	-161	0	0	18	12	17	1							
Subtotals:																						
	2,596	1,061	1,536	1,061	4,143	869	5,012	6,518	-5,461	0	0	1,536	1,194	1,674	-137							

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
1295+75.00	27	9	19	9	125	14	140	182	-173	0	0	19	13	18	0							
1296+00.00	27	9	19	9	128	14	142	185	-177	0	0	19	14	19	0							
1296+25.00	28	9	19	9	132	15	147	191	-182	0	0	19	14	20	-1							
1296+50.00	27	8	19	8	136	15	151	196	-188	0	0	19	14	20	-1							
1296+75.00	27	8	19	8	104	14	117	153	-145	0	0	19	13	19	0							
1297+00.00	31	14	17	14	49	11	60	78	-64	0	0	17	10	14	3							
1297+25.00	34	18	16	18	21	8	30	39	-20	0	0	16	6	8	7							
1297+50.00	33	18	15	18	18	8	26	34	-16	0	0	15	6	8	8							
1297+75.00	33	17	16	17	24	9	33	43	-26	0	0	16	7	10	6							
1298+00.00	31	15	17	15	32	10	42	54	-40	0	0	17	8	12	5							
1298+25.00	11	5	6	5	14	4	18	23	-18	0	0	6	3	5	2							
1298+34.30																						
US30WB																						
Totals:	2,908	1,191	1,717	1,191	4,928	989	5,917	7,695	-6,509	0	0	1,717	1,304	1,828	-109							

FILE NO.		DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER T.5	

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
Station	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
DIKESITE3																						
35+17.34	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
35+20.00	4	0	4	0	11	3	14	18	-18	0	0	4	0	0	4							
35+30.00	22	0	22	0	72	20	93	121	-121	0	0	22	0	0	22							
35+40.00	46	0	46	0	583	44	627	816	-816	0	0	46	0	0	46							
35+50.00	46	0	46	0	704	44	748	973	-972	0	0	46	0	0	46							
35+60.00	18	1	17	1	399	17	416	541	-540	0	0	17	0	0	18							
35+70.00	1	1	0	1	410		410	533	-532	0	0	0	0	0	0							
35+80.00	2	2	0	2	334		334	435	-433	0	0	0	0	0	0							
35+90.00	2	2	0	2	233		233	303	-302	0	0	0	7	9	-9							
36+00.00	2	2	0	2	165		165	214	-212	0	0	0	7	9	-9							
36+10.00	2	2	0	2	143		143	186	-184	0	0	0	0	0	0							
36+20.00	1	1	0	1	111		111	145	-144	0	0	0	4	6	-6							
36+30.00	2	2	0	2	42		42	55	-54	0	0	0	4	6	-6							
36+40.00	1	1	0	1	1		1	1	0	0	0	0	0	0	0							
36+43.00																						
DIKESITE3 Totals:	150	14	136	14	3,209	130	3,338	4,340	-4,326	0	0	136	21	30	107							

FILE NO.		DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER T.6	

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
DIKESITE4																						
25+11.05																						
25+25.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
25+50.00	29	1	28	1	280	28	308	400	-399	0	0	28	0	0	28							
25+75.00	31	3	28	3	388	28	416	541	-538	0	0	28	6	9	19							
26+00.00	2	2	0	2	252		252	328	-326	0	0	0	6	9	-9							
26+25.00	1	1	0	1	246		246	320	-319	0	0	0	2	3	-3							
26+50.00	2	2	0	2	141		141	184	-181	0	0	0	28	39	-39							
26+75.00	3	3	0	3	62		62	80	-77	0	0	0	26	36	-36							
27+00.00	2	2	0	2	39		39	51	-50	0	0	0	0	0	0							
27+25.00	2	2	0	2	30		30	40	-38	0	0	0	0	0	0							
27+50.00	6	6	0	6	20		20	26	-20	0	0	0	0	0	0							
27+75.00	7	7	0	7	13		13	17	-10	0	0	0	0	0	0							
28+00.00	3	3	0	3	14		14	18	-15	0	0	0	0	0	0							
28+25.00	3	3	0	3	14		14	19	-16	0	0	0	0	0	0							
28+50.00	2	2	0	2	17		17	22	-20	0	0	0	0	0	0							
28+75.00	1	1	0	1	25		25	33	-32	0	0	0	0	0	0							
29+00.00	1	1	0	1	27		27	35	-33	0	0	0	0	0	0							
29+25.00	2	2	0	2	18		18	23	-21	0	0	0	0	0	0							
29+50.00	2	2	0	2	19		19	25	-24	0	0	0	0	0	0							
29+75.00	1	1	0	1	20		20	26	-25	0	0	0	0	0	0							
30+00.00	2	2	0	2	18		18	24	-22	0	0	0	0	0	0							
30+25.00	3	3	0	3	21		21	27	-25	0	0	0	1	1	-1							
30+50.00	3	3	0	3	22		22	29	-26	0	0	0	1	1	-1							
30+75.00	2	2	0	2	28		28	36	-34	0	0	0	0	0	0							
31+00.00	2	2	0	2	36		36	47	-45	0	0	0	0	0	0							
31+25.00	2	2	0	2	46		46	60	-58	0	0	0	0	0	0							
31+50.00	2	2	0	2	52		52	67	-65	0	0	0	0	0	0							
31+75.00	2	2	0	2	50		50	65	-63	0	0	0	0	0	0							
32+00.00	2	2	0	2	51		51	66	-64	0	0	0	0	0	0							
32+25.00	2	2	0	2	48		48	63	-61	0	0	0	0	0	0							
32+50.00	2	2	0	2	46		46	60	-59	0	0	0	0	0	0							
32+75.00	2	2	0	2	50		50	65	-63	0	0	0	0	0	0							
33+00.00	2	2	0	2	50		50	65	-63	0	0	0	0	0	0							
33+25.00	2	2	0	2	52		52	68	-66	0	0	0	0	0	0							
33+50.00	1	1	0	1	55		55	72	-71	0	0	0	0	0	0							
33+75.00	1	1	0	1	55		55	72	-71	0	0	0	0	0	0							
34+00.00	2	2	0	2	52		52	68	-66	0	0	0	0	0	0							
34+25.00	2	2	0	2	52		52	68	-67	0	0	0	0	0	0							
34+50.00	2	2	0	2	57		57	74	-72	0	0	0	0	0	0							
34+75.00	2	2	0	2	58		58	76	-74	0	0	0	0	0	0							
35+00.00	1	1	0	1	58		58	75	-74	0	0	0	0	0	0							
35+25.00	2	2	0	2	61		61	80	-78	0	0	0	0	0	0							
35+50.00	2	2	0	2	69		69	89	-87	0	0	0	0	0	0							
35+75.00	2	2	0	2	70		70	91	-89	0	0	0	0	0	0							
36+00.00	3	3	0	3	67		67	88	-85	0	0	0	0	0	0							
36+25.00	2	2	0	2	65		65	84	-82	0	0	0	0	0	0							
36+50.00	2	2	0	2	59		59	77	-75	0	0	0	0	0	0							
36+75.00	3	3	0	3	55		55	72	-69	0	0	0	0	0	0							
37+00.00	3	3	0	3	57		57	74	-71	0	0	0	0	0	0							
37+25.00	2	2	0	2	60		60	78	-75	0	0	0	0	0	0							
37+43.48	1	1	0	1	47		47	61	-59	0	0	0	0	0	0							
DIKESITE4																						
Totals:	161	105	56	105	3,193	56	3,249	4,226	-4,124	0	0	56	72	100	-44							

FILE NO.		DESIGN TEAM WHKS & CO.	STORY	COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER T.7

7/31/2024 10:33:45 AM cholien c:\pw_work\pwmain\chase.holien\d1931257\85-030-302_t01.xlsm

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
DUFFRAMPA																						
5268+00.00																						
5268+25.00	48	7	41	7	25	17	42	55	-48	0	0	41	19	27	15							
5268+50.00	44	6	38	6	15	12	27	36	-30	0	0	38	12	17	21							
5268+75.00	37	4	33	4	10	10	20	26	-23	0	0	33	4	5	28							
5269+00.00	36	2	33	2	30	18	48	62	-60	0	0	33	1	2	31							
5269+25.00	36	2	33	2	38	22	60	77	-75	0	0	33	0	0	33							
5269+50.00	35	2	34	2	32	22	54	70	-68	0	0	34	0	0	34							
5269+75.00	35	2	34	2	35	23	58	75	-73	0	0	34	0	0	34							
5270+00.00	34	2	32	2	36	22	58	76	-74	0	0	32	0	0	32							
5270+25.00	34	1	32	1	42	23	64	84	-82	0	0	32	0	0	32							
5270+50.00	35	1	34	1	52	27	79	103	-101	0	0	34	0	0	34							
5270+75.00	37	2	35	2	62	30	92	119	-117	0	0	35	0	0	35							
5271+00.00	38	3	35	3	72	31	102	133	-130	0	0	35	0	0	36							
5271+25.00	38	3	35	3	80	33	113	146	-143	0	0	35	0	0	35							
5271+50.00	38	3	35	3	77	33	110	142	-140	0	0	35	0	0	35							
5271+75.00	29	3	27	3	72	26	97	127	-124	0	0	27	0	0	27							
5272+00.00	23	4	19	4	71	19	90	117	-114	0	0	19	0	0	19							
5272+25.00	28	3	25	3	77	24	101	132	-129	0	0	25	0	0	25							
5272+50.00	26	1	25	1	80	24	104	136	-134	0	0	25	0	0	25							
5272+75.00	34	4	30	4	66	21	87	113	-109	0	0	30	8	11	19							
5273+00.00	54	12	42	12	59	22	81	105	-93	0	0	42	21	30	12							
5273+25.00	61	19	43	19	60	21	81	105	-86	0	0	43	25	35	8							
5273+50.00	62	20	42	20	54	20	74	96	-77	0	0	42	22	30	12							
5273+75.00	61	20	42	20	48	20	68	88	-68	0	0	42	21	29	13							
5274+00.00	58	17	42	17	45	21	66	86	-69	0	0	42	21	29	13							
5274+25.00	51	11	40	11	48	24	71	93	-82	0	0	40	16	22	19							
5274+50.00	47	7	40	7	48	26	74	97	-90	0	0	40	12	17	23							
5274+75.00	47	7	40	7	49	26	76	98	-91	0	0	40	13	18	22							
5275+00.00	54	13	41	13	47	25	72	94	-81	0	0	41	16	23	18							
5275+25.00	61	19	42	19	41	23	63	83	-63	0	0	42	22	31	11							
5275+50.00	62	20	42	20	38	23	61	79	-59	0	0	42	22	31	11							
5275+75.00	58	16	41	16	42	24	67	87	-70	0	0	41	19	27	14							
5276+00.00	57	16	41	16	48	26	74	97	-81	0	0	41	17	24	17							
5276+25.00	58	17	41	17	54	27	81	105	-88	0	0	41	18	25	16							
5276+50.00	58	15	42	15	64	28	91	119	-104	0	0	42	23	33	10							
5276+75.00	62	19	44	19	58	25	83	108	-90	0	0	44	29	41	3							
5277+00.00	66	22	44	22	50	25	75	97	-75	0	0	44	29	41	3							
5277+25.00	61	18	42	18	59	27	87	113	-94	0	0	42	24	33	9							
5277+50.00	55	14	41	14	67	29	95	124	-110	0	0	41	18	25	16							
5277+75.00	42	12	30	12	69	23	92	120	-108	0	0	30	8	11	19							
5278+00.00	39	13	26	13	64	23	87	113	-101	0	0	26	0	0	26							
5278+25.00	34	8	26	8	57	22	79	103	-95	0	0	26	0	0	26							
5278+50.00	35	5	31	5	53	21	75	97	-92	0	0	31	11	15	16							
5278+75.00	50	8	42	8	52	27	80	104	-96	0	0	42	22	31	11							
5278+98.15	47	8	39	8	48	25	73	95	-87	0	0	39	22	31	9							
DUFFRAMPA																						
Totals:	2,005	412	1,594	412	2,295	1,038	3,332	4,334	-3,925	0	0	1,594	495	694	902							

FILE NO.		DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER T.8

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
DUFFRAMPD																						
4263+00.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
4263+25.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
4263+50.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
4263+75.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
4264+00.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
4264+25.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
4264+50.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
4264+75.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
4265+00.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
4265+25.00	25	0	24	0	48	19	68	88	-88	0	0	24	6	8	16							
4265+50.00	50	0	49	0	98	39	137	178	-178	0	0	49	11	16	33							
4265+75.00	50	0	50	0	102	40	142	185	-185	0	0	50	10	14	36							
4266+00.00	50	0	50	0	110	41	150	196	-196	0	0	50	8	12	38							
4266+25.00	50	0	50	0	120	42	161	210	-210	0	0	50	8	11	39							
4266+50.00	51	0	51	0	130	43	173	225	-225	0	0	51	8	12	40							
4266+75.00	51	1	51	1	134	43	177	230	-229	0	0	51	8	12	39							
4267+00.00	52	1	50	1	137	42	180	234	-232	0	0	50	8	11	39							
4267+25.00	52	2	50	2	146	43	189	246	-244	0	0	50	8	11	39							
4267+50.00	53	4	49	4	153	44	197	257	-253	0	0	49	8	11	39							
4267+75.00	54	5	49	5	154	44	198	258	-253	0	0	49	7	10	38							
4268+00.00	53	6	47	6	147	43	191	248	-242	0	0	47	7	9	37							
4268+25.00	52	7	45	7	138	42	180	234	-226	0	0	45	6	8	36							
4268+50.00	51	8	43	8	126	40	166	216	-207	0	0	43	5	7	36							
4268+75.00	50	9	41	9	116	39	154	200	-192	0	0	41	3	4	36							
4269+00.00	48	8	39	8	115	38	153	199	-191	0	0	39	4	6	34							
4269+25.00	48	8	39	8	114	38	153	198	-190	0	0	39	6	9	30							
4269+50.00	47	8	39	8	108	38	146	189	-181	0	0	39	6	8	30							
4269+75.00	45	8	37	8	98	36	134	174	-166	0	0	37	5	7	30							
4270+00.00	44	9	35	9	86	34	120	156	-147	0	0	35	4	5	30							
4270+25.00	43	9	34	9	75	32	107	139	-130	0	0	34	3	4	30							
4270+50.00	42	9	33	9	64	30	94	122	-114	0	0	33	2	3	30							
4270+75.00	41	9	32	9	55	29	83	108	-99	0	0	32	1	2	30							
4271+00.00	40	9	31	9	50	28	78	101	-92	0	0	31	1	1	30							
4271+25.00	35	10	25	10	46	23	68	89	-79	0	0	25	0	1	25							
4271+50.00	40	11	29	11	39	22	62	80	-70	0	0	29	5	7	22							
4271+75.00	53	13	40	13	30	24	54	70	-57	0	0	40	14	19	21							
4272+00.00	62	20	42	20	19	17	37	48	-27	0	0	42	21	29	13							
4272+25.00	73	30	43	30	15	15	29	38	-8	0	0	43	26	36	7							
4272+50.00	87	43	44	43	10	10	20	26	17	0	0	44	32	45	-1							
4272+75.00	99	53	45	53	8	8	15	20	33	0	0	45	37	52	-7							
4273+00.00	103	58	46	58	11	11	23	30	28	0	0	46	38	53	-8							
4273+25.00	104	59	46	59	13	13	27	35	24	0	0	46	39	55	-9							
4273+50.00	105	59	46	59	13	13	26	34	25	0	0	46	40	56	-10							
4273+75.00	109	63	46	63	9	9	19	25	38	0	0	46	42	59	-12							
4274+00.00	110	63	47	63	8	8	16	22	42	0	0	47	43	60	-13							
4274+25.00	109	62	46	62	9	9	19	24	38	0	0	46	42	59	-13							
4274+50.00	109	63	47	63	10	10	19	25	38	0	0	47	42	60	-13							
4274+75.00	108	62	47	62	9	9	18	23	39	0	0	47	43	60	-14							
4275+00.00	109	62	47	62	10	10	19	25	37	0	0	47	44	61	-14							
4275+25.00	110	63	47	63	10	10	19	25	38	0	0	47	44	61	-15							
4275+50.00	109	62	47	62	8	8	17	22	41	0	0	47	43	61	-14							
4275+75.00	107	61	47	61	8	8	17	22	39	0	0	47	42	60	-13							
4276+00.00	102	56	46	56	9	9	19	24	32	0	0	46	41	57	-11							
4276+25.00	91	46	45	46	13	13	26	33	12	0	0	45	38	53	-7							
4276+50.00	84	39	45	39	18	16	34	44	-5	0	0	45	36	51	-6							
4276+75.00	78	33	44	33	28	19	47	61	-28	0	0	44	32	45	-1							
4277+00.00	73	30	43	30	33	21	54	70	-41	0	0	43	28	39	4							
4277+25.00	72	29	43	29	28	20	47	61	-32	0	0	43	28	39	5							
4277+50.00	71	28	43	28	22	18	41	53	-25	0	0	43	26	36	7							
4277+75.00	70	28	42	28	25	19	43	56	-29	0	0	42	23	32	10							
4278+00.00	68	26	42	26	28	20	47	61	-35	0	0	42	23	32	10							
4278+25.00	68	26	42	26	28	20	48	62	-36	0	0	42	23	33	10							
4278+50.00	68	26	42	26	28	19	48	62	-37	0	0	42	23	32	11							
4278+75.00	67	25	42	25	30	20	49	64	-40	0	0	42	22	31	11							
4279+00.00	66	24	42	24	31	20	51	67	-43	0	0	42	23	32	11							
4279+25.00	65	23	42	23	32	20	52	68	-46	0	0	42	23	32	10							
4279+50.00	63	21	42	21	32	20	52	67	-46	0	0	42	22	31	11							
4279+75.00																						
Subtotals:	3,988	1,500	2,489	1,500	3,294	1,416	4,711	6,127	-4,629	0	0	2,489	1,189	1,668	822							

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
4279+75.00	62	20	42	20	30	19	49	64	-44	0	0	42	21	29	13							
4280+00.00	61	19	42	19	30	19	49	63	-44	0	0	42	21	29	13							
4280+25.00	60	18	42	18	30	19	49	63	-45	0	0	42	22	31	11							
4280+50.00	59	18	42	18	28	18	46	60	-42	0	0	42	22	30	12							
4280+75.00	60	18	42	18	26	17	43	55	-37	0	0	42	21	29	13							
4281+00.00	62	20	42	20	24	16	40	52	-32	0	0	42	22	31	11							
4281+25.00	9	3	6	3	3	2	5	7	-4	0	0	6	3	5	1							
4281+28.52																						
DUFFRAMPD																						
Totals:	4,361	1,616	2,746	1,616	3,466	1,526	4,991	6,492	-4,878	0	0	2,746	1,320	1,851	896							

FILE NO.		DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER T.10	

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
DAYTONRAMPB																						
2505+83.25																						
2506+00.00	44	6	39	6	56	31	88	114	-108	0	0	39	12	17	21							
2506+25.00	67	10	57	10	95	47	142	184	-174	0	0	57	18	25	32							
2506+50.00	67	11	55	11	107	48	155	201	-190	0	0	55	17	24	32							
2506+75.00	65	11	54	11	118	48	166	216	-206	0	0	54	16	22	32							
2507+00.00	63	11	53	11	129	48	177	230	-220	0	0	53	15	21	31							
2507+25.00	61	10	51	10	129	48	177	230	-220	0	0	51	14	20	31							
2507+50.00	59	9	50	9	124	46	170	221	-212	0	0	50	13	19	31							
2507+75.00	59	10	49	10	124	44	168	218	-208	0	0	49	13	18	31							
2508+00.00	59	11	48	11	120	42	162	211	-200	0	0	48	12	17	31							
2508+25.00	60	13	47	13	110	40	150	195	-182	0	0	47	11	16	31							
2508+50.00	61	15	46	15	105	38	143	186	-171	0	0	46	11	15	31							
2508+75.00	61	16	45	16	106	37	143	185	-169	0	0	45	10	14	31							
2509+00.00	62	17	45	17	116	38	155	201	-184	0	0	45	10	14	31							
2509+25.00	62	18	44	18	117	39	156	203	-185	0	0	44	10	14	31							
2509+50.00	61	17	43	17	107	37	144	187	-170	0	0	43	9	13	31							
2509+75.00	58	17	42	17	100	37	137	178	-161	0	0	42	8	11	31							
2510+00.00	58	17	41	17	97	37	134	174	-157	0	0	41	7	11	31							
2510+25.00	57	17	41	17	101	37	137	179	-162	0	0	41	7	10	31							
2510+50.00	56	16	40	16	95	36	132	171	-155	0	0	40	7	10	30							
2510+75.00	55	16	39	16	84	34	118	154	-138	0	0	39	6	9	30							
2511+00.00	54	15	39	15	79	34	113	147	-131	0	0	39	6	8	30							
2511+25.00	44	15	29	15	78	25	102	133	-118	0	0	29	3	4	25							
2511+50.00	45	16	29	16	79	26	104	136	-120	0	0	29	0	0	30							
2511+75.00	54	15	39	15	78	35	113	147	-132	0	0	39	0	0	39							
2512+00.00	53	15	38	15	76	33	109	142	-127	0	0	38	0	0	38							
2512+25.00	52	15	36	15	71	32	104	135	-119	0	0	36	0	0	36							
2512+50.00	55	17	39	17	70	32	102	133	-116	0	0	39	11	16	23							
2512+75.00	60	18	42	18	72	32	105	136	-118	0	0	42	24	33	9							
2513+00.00	61	18	43	18	70	31	100	130	-112	0	0	43	27	37	6							
2513+25.00	61	18	43	18	66	30	95	124	-106	0	0	43	26	37	6							
2513+50.00	60	18	41	18	60	29	89	116	-98	0	0	41	20	28	14							
2513+75.00	60	19	41	19	56	28	84	109	-90	0	0	41	17	24	17							
2514+00.00	62	20	42	20	55	28	83	107	-87	0	0	42	24	33	9							
2514+25.00	63	22	42	22	53	27	80	104	-83	0	0	42	21	30	12							
2514+50.00	57	20	38	20	44	24	69	89	-70	0	0	38	7	9	29							
2514+75.00	56	17	39	17	39	24	63	82	-65	0	0	39	13	18	21							
2515+00.00	57	16	41	16	44	26	70	91	-74	0	0	41	19	27	15							
2515+25.00	56	16	40	16	43	25	68	89	-74	0	0	40	14	19	21							
2515+50.00	52	14	38	14	33	23	56	73	-59	0	0	38	8	11	27							
2515+75.00	48	12	36	12	26	20	46	60	-48	0	0	36	0	0	36							
2516+00.00	47	11	36	11	28	20	48	63	-52	0	0	36	0	0	36							
2516+25.00	41	9	32	9	18	11	29	37	-28	0	0	32	0	0	32							
2516+50.00	35	11	24	11	2	2	3	4	7	0	0	24	0	0	24							
2516+75.00	36	11	25	11	1	1	2	3	9	0	0	25	0	0	25							
2517+00.00	40	9	30	9	2	2	3	4	5	0	0	30	1	1	30							
2517+25.00	39	8	31	8	3	3	5	7	2	0	0	31	1	1	29							
2517+50.00	38	7	31	7	3	3	5	7	0	0	0	31	1	2	29							
2517+75.00	39	8	31	8	2	2	4	6	2	0	0	31	1	2	29							
2518+00.00	39	7	31	7	2	2	5	7	1	0	0	31	1	2	29							
2518+25.00	37	6	31	6	3	3	6	7	-1	0	0	31	1	1	29							
2518+50.00	38	7	31	7	3	3	5	7	1	0	0	31	1	1	29							
2518+75.00	42	11	31	11	2	2	4	6	5	0	0	31	2	2	29							
2519+00.00	46	13	32	13	2	2	4	6	7	0	0	32	3	4	29							
DAYTONRAMPB																						
Totals:	2,819	723	2,097	723	3,401	1,431	4,831	6,283	-5,563	0	0	2,097	476	668	1,432							

FILE NO.		DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER T.11	

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut				Fill					Checks (EW-102)		Topsoil									
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
DAYTONRAMPC																						
3503+19.51																						
3503+25.00	12	1	12	1	24	10	34	44	-43	0	0	12	3	5	7							
3503+50.00	55	3	53	3	102	43	144	188	-185	0	0	53	15	22	31							
3503+75.00	54	1	52	1	89	41	130	170	-168	0	0	52	15	21	31							
3504+00.00	52	1	51	1	81	40	121	158	-156	0	0	51	14	20	31							
3504+25.00	51	2	49	2	83	40	123	160	-159	0	0	49	13	18	31							
3504+50.00	51	2	49	2	90	40	130	170	-168	0	0	49	13	18	31							
3504+75.00	51	2	49	2	95	41	136	177	-175	0	0	49	13	18	31							
3505+00.00	51	2	49	2	97	42	139	180	-178	0	0	49	13	18	31							
3505+25.00	52	4	48	4	96	41	137	178	-174	0	0	48	12	17	31							
3505+50.00	54	6	48	6	97	40	137	179	-172	0	0	48	12	17	31							
3505+75.00	54	7	47	7	100	40	140	182	-176	0	0	47	11	16	31							
3506+00.00	53	7	46	7	97	39	136	177	-170	0	0	46	11	15	31							
3506+25.00	53	9	45	9	88	38	126	163	-155	0	0	45	10	14	31							
3506+50.00	54	10	43	10	77	36	113	147	-137	0	0	43	9	13	31							
3506+75.00	55	13	42	13	66	34	100	130	-118	0	0	42	8	12	31							
3507+00.00	55	14	41	14	64	32	96	125	-111	0	0	41	8	11	31							
3507+25.00	50	14	36	14	62	28	90	117	-103	0	0	36	4	6	30							
3507+50.00	40	13	27	13	46	21	67	87	-74	0	0	27	1	1	27							
3507+75.00	33	12	21	12	30	15	45	59	-47	0	0	21	0	0	21							
3508+00.00	33	12	21	12	27	15	42	55	-43	0	0	21	0	0	21							
3508+25.00	39	13	26	13	36	20	57	74	-61	0	0	26	0	0	26							
3508+50.00	47	14	33	14	51	27	78	101	-87	0	0	33	2	3	30							
3508+75.00	54	14	40	14	73	34	108	140	-126	0	0	40	7	10	31							
3509+00.00	60	14	46	14	94	40	134	175	-161	0	0	46	11	15	31							
3509+25.00	61	13	47	13	93	40	133	174	-160	0	0	47	12	16	31							
3509+50.00	58	12	45	12	91	40	130	170	-158	0	0	45	10	15	31							
3509+75.00	58	14	45	14	92	38	129	168	-154	0	0	45	10	14	31							
3510+00.00	59	14	45	14	80	35	116	150	-136	0	0	45	10	14	31							
3510+25.00	59	14	44	14	78	36	114	148	-134	0	0	44	10	14	31							
3510+50.00	59	15	44	15	80	36	117	152	-137	0	0	44	10	14	31							
3510+75.00	57	13	44	13	78	37	115	149	-136	0	0	44	9	13	31							
3511+00.00	56	13	43	13	75	37	112	146	-133	0	0	43	9	12	31							
3511+25.00	55	13	42	13	76	35	111	145	-132	0	0	42	8	11	31							
3511+50.00	56	15	41	15	62	28	90	117	-102	0	0	41	12	17	24							
3511+75.00	57	16	41	16	37	22	59	76	-60	0	0	41	18	25	16							
3512+00.00	55	15	40	15	47	27	74	96	-82	0	0	40	13	18	22							
3512+25.00	54	15	39	15	69	32	101	131	-116	0	0	39	3	4	35							
3512+50.00	54	14	40	14	75	34	110	143	-129	0	0	40	0	0	40							
3512+75.00	52	13	39	13	76	34	110	143	-130	0	0	39	3	4	35							
3513+00.00	52	13	39	13	74	33	107	139	-126	0	0	39	3	4	35							
3513+25.00	50	12	38	12	72	33	105	137	-125	0	0	38	0	0	38							
3513+50.00	47	11	36	11	66	32	98	128	-117	0	0	36	0	0	36							
3513+75.00	45	10	35	10	65	31	96	125	-115	0	0	35	0	0	36							
3514+00.00	46	10	36	10	65	32	97	126	-116	0	0	36	0	0	36							
3514+25.00	47	11	36	11	60	31	91	119	-108	0	0	36	0	0	36							
3514+50.00	46	11	35	11	54	28	82	106	-96	0	0	35	0	0	35							
3514+75.00	47	11	36	11	53	28	81	106	-95	0	0	36	0	0	36							
3515+00.00	40	11	28	11	53	21	74	96	-85	0	0	28	0	0	29							
3515+25.00	31	11	19	11	48	13	60	79	-67	0	0	19	0	0	19							
3515+50.00	45	13	32	13	47	19	66	86	-73	0	0	32	18	26	7							
3515+75.00	51	12	40	12	55	26	81	106	-94	0	0	40	18	26	14							
3516+00.00	46	9	37	9	54	27	81	105	-97	0	0	37	5	7	30							
3516+25.00	48	8	40	8	45	28	73	95	-87	0	0	40	15	21	20							
3516+50.00	51	9	42	9	38	26	64	83	-74	0	0	42	24	33	9							
3516+75.00	53	9	44	9	38	26	64	83	-74	0	0	44	32	44	0							
3517+00.00	52	8	43	8	44	28	71	93	-85	0	0	43	28	40	4							
3517+25.00	39	8	31	8	37	18	55	72	-64	0	0	31	11	15	16							
3517+50.00	37	9	28	9	32	16	48	62	-53	0	0	28	0	0	28							
3517+75.00	48	9	38	9	34	25	59	77	-68	0	0	38	0	0	38							
3518+00.00	47	8	38	8	29	23	53	69	-60	0	0	38	3	4	35							
3518+25.00	45	7	38	7	23	20	43	56	-49	0	0	38	6	8	30							
3518+50.00	37	7	31	7	14	13	26	35	-28	0	0	31	3	4	27							
3518+75.00	32	7	25	7	4	4	9	11	-4	0	0	25	0	0	25							
3519+00.00	32	9	23	9	2	2	4	6	4	0	0	23	0	0	23							
3519+25.00	36	11	25	11	2	2	4	5	6	0	0	25	1	1	24							
3519+50.00	42	11	31	11	2	2	4	6	5	0	0	31	1	2	29							
3519+75.00	44	12	32	12	3	3	5	7	6	0	0	32	2	3	29							
Subtotals:	3,244	672	2,572	672	3,989	1,897	5,886	7,655	-6,986	0	0	2,572	508	714	1,861							

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
3519+75.00	47	14	33	14	3	3	5	7	7	0	0	33	3	4	29							
3520+00.00	48	15	33	15	3	3	6	8	8	0	0	33	3	5	29							
3520+25.00	48	15	33	15	3	3	6	8	8	0	0	33	3	5	29							
3520+50.00	48	14	34	14	3	3	6	7	7	0	0	34	4	6	28							
3520+75.00	45	12	33	12	3	3	6	8	5	0	0	33	4	5	28							
3521+00.00	45	12	33	12	3	3	6	8	4	0	0	33	4	5	28							
3521+25.00	45	12	33	12	3	3	6	8	4	0	0	33	4	5	29							
3521+50.00	44	11	33	11	3	3	6	8	3	0	0	33	3	5	29							
3521+75.00	41	9	32	9	3	3	7	9	0	0	0	32	3	4	28							
3522+00.00	40	8	32	8	4	4	7	9	-1	0	0	32	2	3	29							
3522+25.00	37	6	32	6	4	4	8	10	-5	0	0	32	2	3	29							
3522+50.00	14	1	13	1	2	2	4	5	-4	0	0	13	1	1	12							
3522+71.13																						
DAYTONRAMPC																						
Totals:	3,748	802	2,947	802	4,025	1,933	5,958	7,750	-6,951	0	0	2,947	544	764	2,187							

FILE NO.		DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER T.13	

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
US30EBDETOUR																						
1260+26.01																						
1260+50.00	9	9	0	9	0		0	0	9	0	0	0	0	0	0							
1260+75.00	17	17	0	17	0		0	0	17	0	0	0	0	0	0							
1261+00.00	16	16	0	16	0		0	0	16	0	0	0	0	0	0							
1261+25.00	15	15	0	15	0		0	0	15	0	0	0	0	0	0							
1261+50.00	14	14	0	14	0		0	0	14	0	0	0	0	0	0							
1261+75.00	14	14	0	14	0		0	0	14	0	0	0	0	0	0							
1262+00.00	13	13	0	13	0		0	0	13	0	0	0	0	0	0							
1262+25.00	13	13	0	13	0		0	0	13	0	0	0	0	0	0							
1262+50.00	14	14	0	14	0		0	0	14	0	0	0	0	0	0							
1262+75.00	14	14	0	14	0		0	0	14	0	0	0	0	0	0							
1263+00.00	13	13	0	13	0		0	0	13	0	0	0	0	0	0							
1263+25.00	11	11	0	11	0		0	0	11	0	0	0	0	0	0							
1263+50.00	10	10	0	10	0		0	1	9	0	0	0	2	3	-3							
1263+75.00	8	8	0	8	3		3	4	3	0	0	0	5	7	-7							
1264+00.00	6	6	0	6	12		12	16	-10	0	0	0	7	9	-9							
1264+25.00	5	5	0	5	20		20	26	-21	0	0	0	8	11	-11							
1264+50.00	4	4	0	4	23		23	30	-25	0	0	0	8	11	-11							
1264+75.00	4	4	0	4	24		24	31	-27	0	0	0	8	11	-11							
1265+00.00	4	4	0	4	23		23	31	-26	0	0	0	8	11	-11							
1265+25.00	5	5	0	5	24		24	31	-27	0	0	0	8	11	-11							
1265+50.00	5	5	0	5	25		25	32	-28	0	0	0	8	11	-11							
1265+75.00	5	5	0	5	25		25	33	-29	0	0	0	8	11	-11							
1266+00.00	4	4	0	4	26		26	33	-29	0	0	0	8	11	-11							
1266+25.00	4	4	0	4	26		26	33	-29	0	0	0	8	11	-11							
1266+50.00	4	4	0	4	25		25	33	-28	0	0	0	8	11	-11							
1266+75.00	5	5	0	5	25		25	32	-28	0	0	0	8	11	-11							
1267+00.00	4	4	0	4	24		24	32	-28	0	0	0	8	11	-11							
1267+25.00	4	4	0	4	24		24	32	-27	0	0	0	8	11	-11							
1267+50.00	5	5	0	5	24		24	31	-27	0	0	0	8	11	-11							
1267+75.00	5	5	0	5	24		24	31	-27	0	0	0	8	11	-11							
1268+00.00	5	5	0	5	24		24	32	-27	0	0	0	8	11	-11							
1268+25.00	5	5	0	5	25		25	33	-28	0	0	0	8	11	-11							
1268+50.00	5	5	0	5	27		27	36	-31	0	0	0	8	11	-11							
1268+75.00	4	4	0	4	30		30	39	-35	0	0	0	8	11	-11							
1269+00.00	4	4	0	4	29		29	38	-33	0	0	0	9	13	-13							
1269+25.00	9	9	0	9	15		15	19	-10	0	0	0	7	10	-10							
1269+50.00	11	11	0	11	8		8	10	2	0	0	0	5	8	-8							
1269+75.00	9	9	0	9	14		14	18	-9	0	0	0	7	10	-10							
1270+00.00	10	10	0	10	14		14	18	-8	0	0	0	7	10	-10							
1270+25.00	10	10	0	10	12		12	16	-5	0	0	0	7	10	-10							
1270+50.00	10	10	0	10	11		11	15	-5	0	0	0	7	10	-10							
1270+75.00	10	10	0	10	12		12	15	-6	0	0	0	7	10	-10							
1271+00.00	10	10	0	10	11		11	14	-5	0	0	0	7	10	-10							
1271+25.00	9	9	0	9	10		10	14	-4	0	0	0	7	10	-10							
1271+50.00	9	9	0	9	11		11	15	-6	0	0	0	7	10	-10							
1271+75.00	10	10	0	10	13		13	17	-7	0	0	0	7	10	-10							
1272+00.00	9	9	0	9	14		14	18	-9	0	0	0	7	10	-10							
1272+25.00	8	8	0	8	14		14	19	-10	0	0	0	7	9	-9							
1272+50.00	8	8	0	8	15		15	19	-11	0	0	0	7	9	-9							
1272+75.00	9	9	0	9	14		14	18	-9	0	0	0	7	9	-9							
1273+00.00	9	9	0	9	13		13	17	-8	0	0	0	7	9	-9							
1273+25.00	9	9	0	9	12		12	16	-7	0	0	0	6	9	-9							
1273+50.00	9	9	0	9	12		12	16	-7	0	0	0	7	9	-9							
1273+75.00	8	8	0	8	13		13	16	-8	0	0	0	7	10	-10							
1274+00.00	8	8	0	8	12		12	16	-8	0	0	0	7	10	-10							
1274+25.00	8	8	0	8	11		11	14	-6	0	0	0	7	10	-10							
1274+50.00	9	9	0	9	8		8	11	-2	0	0	0	7	10	-10							
1274+75.00	10	10	0	10	7		7	10	0	0	0	0	7	10	-10							
1275+00.00	9	9	0	9	7		7	9	1	0	0	0	7	9	-9							
1275+25.00	9	9	0	9	5		5	7	2	0	0	0	6	9	-9							
1275+50.00	10	10	0	10	6		6	8	2	0	0	0	6	9	-9							
1275+75.00	10	10	0	10	6		6	8	2	0	0	0	6	9	-9							
1276+00.00	10	10	0	10	6		6	8	2	0	0	0	7	10	-10							
1276+25.00	10	10	0	10	6		6	9	1	0	0	0	7	10	-10							
1276+50.00	10	10	0	10	6		6	7	2	0	0	0	7	9	-9							
1276+75.00	11	11	0	11	3		3	4	8	0	0	0	5	7	-7							
1277+00.00	12	12	0	12	1		1	1	11	0	0	0	5	7	-7							
Subtotals:	579	579	0	579	834	0	834	1,088	-509	0	0	0	382	538	-538							

FILE NO.		DESIGN TEAM WHKS & CO.	STORY	COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER T.14	

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
1277+00.00	11	11	0	11	5		5	6	5	0	0	0	7	10	-10							
1277+25.00	9	9	0	9	8		8	11	-2	0	0	0	7	10	-10							
1277+50.00	8	8	0	8	8		8	11	-3	0	0	0	7	10	-10							
1277+75.00	8	8	0	8	8		8	11	-3	0	0	0	7	9	-9							
1278+00.00	8	8	0	8	8		8	11	-3	0	0	0	6	9	-9							
1278+25.00	8	8	0	8	8		8	10	-2	0	0	0	6	9	-9							
1278+50.00	8	8	0	8	6		6	8	0	0	0	0	6	8	-8							
1278+75.00	8	8	0	8	6		6	8	1	0	0	0	6	9	-9							
1279+00.00	8	8	0	8	7		7	9	-1	0	0	0	6	9	-9							
1279+25.00	9	9	0	9	7		7	9	0	0	0	0	6	9	-9							
1279+50.00	9	9	0	9	6		6	8	2	0	0	0	6	9	-9							
1279+75.00	9	9	0	9	6		6	8	1	0	0	0	6	8	-8							
1280+00.00	8	8	0	8	5		5	6	2	0	0	0	6	8	-8							
1280+25.00	8	8	0	8	4		4	6	3	0	0	0	6	8	-8							
1280+50.00	8	8	0	8	4		4	6	2	0	0	0	6	8	-8							
1280+75.00	9	9	0	9	5		5	6	3	0	0	0	6	9	-9							
1281+00.00	9	9	0	9	5		5	6	3	0	0	0	6	8	-8							
1281+25.00	9	9	0	9	4		4	6	4	0	0	0	6	8	-8							
1281+50.00	9	9	0	9	5		5	7	1	0	0	0	6	8	-8							
1281+75.00	8	8	0	8	6		6	8	0	0	0	0	6	9	-9							
1282+00.00	9	9	0	9	5		5	7	2	0	0	0	6	9	-9							
1282+25.00	9	9	0	9	3		3	4	5	0	0	0	6	8	-8							
1282+50.00	9	9	0	9	2		2	3	6	0	0	0	6	8	-8							
1282+75.00	9	9	0	9	3		3	4	5	0	0	0	6	8	-8							
1283+00.00	10	10	0	10	2		2	3	7	0	0	0	5	7	-7							
1283+25.00	10	10	0	10	1		1	1	9	0	0	0	3	5	-5							
1283+50.00	12	12	0	12	0		0	0	12	0	0	0	3	4	-4							
1283+75.00	13	13	0	13	1		1	1	12	0	0	0	3	5	-5							
1284+00.00	10	10	0	10	3		3	4	7	0	0	0	5	6	-6							
1284+25.00	9	9	0	9	4		4	5	5	0	0	0	5	7	-7							
1284+50.00	8	8	0	8	4		4	5	3	0	0	0	5	7	-7							
1284+75.00	8	8	0	8	6		6	7	1	0	0	0	4	6	-6							
1285+00.00	9	9	0	9	7		7	10	0	0	0	0	4	6	-6							
1285+25.00	10	10	0	10	9		9	11	-1	0	0	0	4	5	-5							
1285+50.00	10	10	0	10	9		9	12	-2	0	0	0	3	5	-5							
1285+75.00	10	10	0	10	11		11	14	-4	0	0	0	3	4	-4							
1286+00.00	9	9	0	9	15		15	20	-11	0	0	0	2	3	-3							
1286+25.00	8	8	0	8	20		20	27	-19	0	0	0	2	3	-3							
1286+50.00	8	8	0	8	25		25	33	-25	0	0	0	1	2	-2							
1286+75.00	8	8	0	8	30		30	39	-31	0	0	0	1	1	-1							
1287+00.00	7	7	0	7	34		34	45	-37	0	0	0	1	1	-1							
1287+25.00	7	7	0	7	36		36	47	-41	0	0	0	0	1	-1							
1287+50.00	8	8	0	8	35		35	46	-38	0	0	0	0	0	0							
1287+75.00	10	10	0	10	32		32	42	-32	0	0	0	0	0	0							
1288+00.00	14	14	0	14	31		31	41	-27	0	0	0	0	0	0							
1288+25.00	16	16	0	16	30		30	39	-23	0	0	0	0	0	0							
1288+50.00	17	17	0	17	29		29	37	-20	0	0	0	0	0	0							
1288+75.00	18	18	0	18	28		28	36	-18	0	0	0	0	0	0							
1289+00.00	17	17	0	17	27		27	35	-19	0	0	0	0	0	0							
1289+25.00	15	15	0	15	26		26	34	-19	0	0	0	0	0	0							
1289+50.00	14	14	0	14	27		27	35	-21	0	0	0	0	0	0							
1289+75.00	12	12	0	12	29		29	38	-25	0	0	0	0	0	0							
1290+00.00	10	10	0	10	31		31	41	-31	0	0	0	0	0	0							
1290+25.00	14	14	0	14	37		37	48	-34	0	0	0	3	4	-4							
1290+50.00	18	18	0	18	36		36	47	-29	0	0	0	6	8	-8							
1290+75.00	19	19	0	19	31		31	41	-22	0	0	0	6	8	-8							
1291+00.00	19	19	0	19	28		28	37	-18	0	0	0	6	8	-8							
1291+25.00	18	18	0	18	26		26	34	-15	0	0	0	6	8	-8							
1291+50.00	19	19	0	19	26		26	33	-15	0	0	0	6	8	-8							
1291+75.00	19	19	0	19	26		26	34	-15	0	0	0	6	8	-8							
1292+00.00	19	19	0	19	27		27	36	-17	0	0	0	6	8	-8							
1292+25.00	19	19	0	19	29		29	38	-20	0	0	0	6	8	-8							
1292+50.00	18	18	0	18	31		31	41	-23	0	0	0	6	8	-8							
1292+75.00	18	18	0	18	32		32	41	-23	0	0	0	6	8	-8							
1293+00.00	18	18	0	18	32		32	42	-24	0	0	0	6	8	-8							
1293+25.00	17	17	0	17	34		34	44	-27	0	0	0	6	8	-8							
1293+50.00	17	17	0	17	34		34	45	-28	0	0	0	6	8	-8							
1293+75.00	18	18	0	18	34		34	44	-27	0	0	0	6	8	-8							
1294+00.00																						
Subtotals:	798	798	0	798	1,142	0	1,142	1,488	-691	0	0	0	285	402	-402							

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
1294+00.00	18	18	0	18	34		34	44	-26	0	0	0	6	8	-8							
1294+25.00	18	18	0	18	34		34	44	-26	0	0	0	6	8	-8							
1294+50.00	17	17	0	17	35		35	45	-28	0	0	0	6	8	-8							
1294+75.00	18	18	0	18	35		35	46	-28	0	0	0	6	8	-8							
1295+00.00	16	16	0	16	34		34	45	-28	0	0	0	6	8	-8							
1295+25.00	17	17	0	17	32		32	42	-25	0	0	0	6	8	-8							
1295+50.00	18	18	0	18	31		31	41	-23	0	0	0	6	8	-8							
1295+75.00	19	19	0	19	29		29	38	-19	0	0	0	6	8	-8							
1296+00.00	22	22	0	22	14		14	19	4	0	0	0	6	8	-8							
1296+25.00	30	30	0	30	1		1	2	29	0	0	0	6	8	-8							
1296+50.00	35	35	0	35	0		0	0	35	0	0	0	6	8	-8							
1296+75.00	36	36	0	36	0		0	0	36	0	0	0	6	8	-8							
1297+00.00	39	39	0	39	0		0	0	39	0	0	0	6	8	-8							
1297+25.00	43	43	0	43	0		0	0	44	0	0	0	6	8	-8							
1297+50.00	47	47	0	47	0		0	0	48	0	0	0	6	8	-8							
1297+75.00	47	47	0	47	0		0	0	47	0	0	0	6	8	-8							
1298+00.00	46	46	0	46	0		0	0	46	0	0	0	6	8	-8							
1298+25.00	46	46	0	46	0		0	0	46	0	0	0	6	8	-8							
1298+50.00	44	44	0	44	0		0	0	44	0	0	0	6	8	-8							
1298+75.00	44	44	0	44	0		0	0	44	0	0	0	6	9	-9							
1299+00.00	50	50	0	50	0		0	0	50	0	0	0	6	9	-9							
1299+25.00	34	34	0	34	33		33	43	-8	0	0	0	7	9	-9							
1299+50.00	6	6	0	6	33		33	43	-37	0	0	0	3	5	-5							
1299+75.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1300+00.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1300+25.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1300+50.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1300+75.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1301+00.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1301+25.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1301+50.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1301+75.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1302+00.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1302+25.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1302+50.00	0	0	0	0	0		0	0	0	0	0	0	0	0	0							
1302+75.00	19	19	0	19	0		0	0	19	0	0	0	4	5	-5							
1303+00.00	46	46	0	46	0		0	0	46	0	0	0	7	10	-10							
1303+25.00	52	52	0	52	0		0	0	52	0	0	0	7	9	-9							
1303+50.00	50	50	0	50	0		0	0	50	0	0	0	6	9	-9							
1303+75.00	52	52	0	52	0		0	0	52	0	0	0	6	9	-9							
1304+00.00	54	54	0	54	0		0	0	54	0	0	0	6	9	-9							
1304+25.00	52	52	0	52	0		0	0	52	0	0	0	6	9	-9							
1304+50.00	50	50	0	50	0		0	0	50	0	0	0	6	9	-9							
1304+75.00	49	49	0	49	0		0	0	49	0	0	0	6	9	-9							
1305+00.00	48	48	0	48	0		0	0	49	0	0	0	6	9	-9							
1305+25.00	47	47	0	47	0		0	0	48	0	0	0	6	9	-9							
1305+50.00	49	49	0	49	0		0	0	49	0	0	0	6	8	-8							
1305+75.00	50	50	0	50	0		0	0	50	0	0	0	6	9	-9							
1306+00.00	39	39	0	39	0		0	0	39	0	0	0	6	9	-9							
1306+25.00	25	25	0	25	9		9	12	13	0	0	0	6	9	-9							
1306+50.00	20	20	0	20	20		20	26	-6	0	0	0	6	9	-9							
1306+75.00	21	21	0	21	22		22	28	-8	0	0	0	6	9	-9							
1307+00.00	21	21	0	21	21		21	28	-7	0	0	0	6	9	-9							
1307+25.00	21	21	0	21	15		15	20	1	0	0	0	6	9	-9							
1307+50.00	27	27	0	27	5		5	7	20	0	0	0	6	9	-9							
1307+75.00	34	34	0	34	0		0	0	34	0	0	0	6	9	-9							
1308+00.00	35	35	0	35	0		0	0	35	0	0	0	6	9	-9							
1308+25.00	34	34	0	34	0		0	0	34	0	0	0	6	9	-9							
1308+50.00	33	33	0	33	0		0	0	33	0	0	0	6	9	-9							
1308+75.00	35	35	0	35	0		0	0	35	0	0	0	6	9	-9							
1309+00.00	35	35	0	35	0		0	0	35	0	0	0	6	9	-9							
1309+25.00	33	33	0	33	0		0	0	33	0	0	0	6	9	-9							
1309+50.00	33	33	0	33	0		0	0	33	0	0	0	6	9	-9							
1309+75.00	32	32	0	32	0		0	0	32	0	0	0	6	9	-9							
1310+00.00	28	28	0	28	6		6	8	20	0	0	0	6	9	-9							
1310+25.00	24	24	0	24	14		14	19	6	0	0	0	6	8	-8							
1310+50.00	22	22	0	22	19		19	24	-2	0	0	0	6	8	-8							
1310+75.00	21	21	0	21	18		18	24	-2	0	0	0	6	8	-8							
1311+00.00																						
Subtotals:	1,903	1,903	0	1,903	495	0	495	646	1,258	0	0	0	336	474	-474							

FILE NO.		DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER T.16	

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
1311+00.00	22	22	0	22	16		16	21	1	0	0	0	6	8	-8							
1311+25.00	22	22	0	22	20		20	26	-4	0	0	0	6	8	-8							
1311+50.00	20	20	0	20	24		24	31	-11	0	0	0	6	8	-8							
1311+75.00	19	19	0	19	26		26	33	-15	0	0	0	6	8	-8							
1312+00.00	17	17	0	17	28		28	36	-19	0	0	0	6	9	-9							
1312+25.00	17	17	0	17	31		31	40	-23	0	0	0	6	9	-9							
1312+50.00	18	18	0	18	31		31	41	-23	0	0	0	6	9	-9							
1312+75.00	17	17	0	17	32		32	42	-24	0	0	0	6	9	-9							
1313+00.00	15	15	0	15	34		34	44	-29	0	0	0	6	9	-9							
1313+25.00	15	15	0	15	34		34	44	-30	0	0	0	6	8	-8							
1313+50.00	16	16	0	16	35		35	46	-30	0	0	0	6	8	-8							
1313+75.00	18	18	0	18	39		39	51	-33	0	0	0	5	7	-7							
1314+00.00	14	14	0	14	42		42	54	-41	0	0	0	5	7	-7							
1314+25.00	10	10	0	10	42		42	54	-45	0	0	0	5	6	-6							
1314+50.00	12	12	0	12	26		26	33	-22	0	0	0	4	6	-6							
1314+75.00	13	13	0	13	16		16	21	-8	0	0	0	3	5	-5							
1315+00.00	12	12	0	12	23		23	30	-18	0	0	0	2	3	-3							
1315+25.00	12	12	0	12	26		26	34	-22	0	0	0	1	1	-1							
1315+50.00	14	14	0	14	29		29	37	-23	0	0	0	0	0	0							
1315+75.00	14	14	0	14	31		31	40	-27	0	0	0	0	0	0							
1316+00.00	10	10	0	10	32		32	41	-32	0	0	0	0	0	0							
1316+25.00	7	7	0	7	32		32	42	-35	0	0	0	0	0	0							
1316+50.00	6	6	0	6	31		31	40	-34	0	0	0	0	0	0							
1316+75.00	7	7	0	7	30		30	39	-32	0	0	0	0	0	0							
1317+00.00	9	9	0	9	28		28	36	-27	0	0	0	1	1	-1							
1317+25.00	9	9	0	9	24		24	32	-23	0	0	0	2	2	-2							
1317+50.00	9	9	0	9	23		23	29	-21	0	0	0	2	3	-3							
1317+75.00	9	9	0	9	21		21	27	-18	0	0	0	3	4	-4							
1318+00.00	9	9	0	9	19		19	24	-16	0	0	0	4	6	-6							
1318+25.00	9	9	0	9	18		18	23	-14	0	0	0	5	7	-7							
1318+50.00	9	9	0	9	18		18	23	-14	0	0	0	5	7	-7							
1318+75.00	9	9	0	9	16		16	21	-13	0	0	0	6	8	-8							
1319+00.00	8	8	0	8	14		14	19	-11	0	0	0	6	9	-9							
1319+25.00	8	8	0	8	12		12	16	-8	0	0	0	6	9	-9							
1319+50.00	9	9	0	9	11		11	14	-5	0	0	0	6	9	-9							
1319+75.00	9	9	0	9	11		11	14	-5	0	0	0	6	9	-9							
1320+00.00	9	9	0	9	12		12	16	-7	0	0	0	7	9	-9							
1320+25.00	9	9	0	9	14		14	18	-10	0	0	0	7	10	-10							
1320+50.00	9	9	0	9	13		13	17	-8	0	0	0	7	9	-9							
1320+75.00	10	10	0	10	12		12	16	-6	0	0	0	6	9	-9							
1321+00.00	13	13	0	13	7		7	9	4	0	0	0	3	4	-4							
1321+25.00	14	14	0	14	0		0	0	14	0	0	0	0	0	0							
1321+50.00	15	15	0	15	0		0	0	15	0	0	0	0	0	0							
1321+75.00	15	15	0	15	0		0	0	15	0	0	0	0	0	0							
1322+00.00	16	16	0	16	0		0	0	16	0	0	0	0	0	0							
1322+25.00	17	17	0	17	0		0	0	17	0	0	0	0	0	0							
1322+50.00	15	15	0	15	0		0	0	15	0	0	0	0	0	0							
1322+75.00	15	15	0	15	0		0	0	15	0	0	0	0	0	0							
1323+00.00	14	14	0	14	0		0	0	14	0	0	0	0	0	0							
1323+25.00	15	15	0	15	0		0	0	15	0	0	0	0	0	0							
1323+50.00	15	15	0	15	0		0	0	15	0	0	0	0	0	0							
1323+75.00	14	14	0	14	0		0	0	14	0	0	0	0	0	0							
1324+00.00	15	15	0	15	0		0	0	15	0	0	0	0	0	0							
1324+25.00	16	16	0	16	0		0	0	16	0	0	0	0	0	0							
1324+50.00	17	17	0	17	0		0	0	17	0	0	0	0	0	0							
1324+75.00	16	16	0	16	0		0	0	16	0	0	0	0	0	0							
1325+00.00	15	15	0	15	0		0	0	15	0	0	0	0	0	0							
1325+25.00	15	15	0	15	0		0	0	15	0	0	0	0	0	0							
1325+50.00	15	15	0	15	0		0	0	15	0	0	0	0	0	0							
1325+75.00	13	13	0	13	0		0	0	13	0	0	0	0	0	0							
1326+00.00	10	10	0	10	3		3	5	5	0	0	0	3	5	-5							
1326+25.00	9	9	0	9	8		8	10	-1	0	0	0	6	9	-9							
1326+50.00	9	9	0	9	11		11	15	-6	0	0	0	6	9	-9							
1326+75.00	8	8	0	8	13		13	17	-9	0	0	0	7	10	-10							
1327+00.00	8	8	0	8	13		13	17	-9	0	0	0	7	10	-10							
1327+25.00	8	8	0	8	13		13	17	-9	0	0	0	7	10	-10							
1327+50.00	8	8	0	8	14		14	18	-10	0	0	0	7	10	-10							
1327+75.00	8	8	0	8	15		15	19	-11	0	0	0	7	10	-10							
1328+00.00																						
Subtotals:	853	853	0	853	1,068	0	1,068	1,392	-540	0	0	0	223	314	-314							

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
1328+00.00	8	8	0	8	15		15	19	-11	0	0	0	7	9	-9							
1328+25.00	8	8	0	8	14		14	18	-10	0	0	0	7	10	-10							
1328+50.00	8	8	0	8	14		14	18	-10	0	0	0	7	10	-10							
1328+75.00	8	8	0	8	15		15	19	-11	0	0	0	7	10	-10							
1329+00.00	8	8	0	8	14		14	18	-10	0	0	0	7	10	-10							
1329+25.00	8	8	0	8	14		14	19	-10	0	0	0	7	10	-10							
1329+50.00	8	8	0	8	14		14	18	-10	0	0	0	7	10	-10							
1329+75.00	8	8	0	8	21		21	28	-19	0	0	0	7	10	-10							
1330+00.00	9	9	0	9	21		21	27	-19	0	0	0	7	10	-10							
1330+25.00	9	9	0	9	13		13	16	-8	0	0	0	7	10	-10							
1330+50.00	9	9	0	9	13		13	18	-9	0	0	0	7	10	-10							
1330+75.00	8	8	0	8	15		15	20	-11	0	0	0	7	10	-10							
1331+00.00	8	8	0	8	16		16	21	-13	0	0	0	7	10	-10							
1331+25.00	8	8	0	8	15		15	20	-12	0	0	0	7	10	-10							
1331+50.00	8	8	0	8	13		13	18	-10	0	0	0	7	10	-10							
1331+75.00	8	8	0	8	12		12	15	-7	0	0	0	7	10	-10							
1332+00.00	9	9	0	9	12		12	16	-7	0	0	0	7	10	-10							
1332+25.00	8	8	0	8	14		14	18	-10	0	0	0	7	10	-10							
1332+50.00	8	8	0	8	14		14	18	-10	0	0	0	7	10	-10							
1332+75.00	8	8	0	8	14		14	18	-10	0	0	0	7	10	-10							
1333+00.00	10	10	0	10	14		14	19	-9	0	0	0	7	10	-10							
1333+25.00	11	11	0	11	13		13	18	-6	0	0	0	7	10	-10							
1333+50.00	11	11	0	11	13		13	16	-6	0	0	0	7	10	-10							
1333+75.00	11	11	0	11	11		11	14	-3	0	0	0	6	9	-9							
1334+00.00	13	13	0	13	4		4	5	8	0	0	0	3	4	-4							
1334+25.00	14	14	0	14	0		0	0	14	0	0	0	0	0	0							
1334+50.00	14	14	0	14	0		0	1	14	0	0	0	3	4	-4							
1334+75.00	13	13	0	13	1		1	2	11	0	0	0	5	6	-6							
1335+00.00	13	13	0	13	2		2	3	10	0	0	0	4	6	-6							
1335+25.00	13	13	0	13	1		1	2	12	0	0	0	4	5	-5							
1335+50.00	13	13	0	13	1		1	2	11	0	0	0	5	6	-6							
1335+75.00	14	14	0	14	1		1	1	13	0	0	0	3	5	-5							
1336+00.00	14	14	0	14	1		1	1	13	0	0	0	2	4	-4							
1336+25.00	14	14	0	14	0		0	1	13	0	0	0	2	3	-3							
1336+50.00	13	13	0	13	0		0	0	13	0	0	0	1	2	-2							
1336+75.00	15	15	0	15	0		0	0	16	0	0	0	0	0	0							
1336+81.26	4	4	0	4	0		0	0	4	0	0	0	0	0	0							
US30EBDETOUR																						
Totals:	4,494	4,494	0	4,494	3,895	0	3,895	5,077	-585	0	0	0	1,422	2,003	-2,003							

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill					Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
Summary:																						
US30EB	8,809	6,260	2,550	6,260	4,472	0	4,472	5,817	444	0	0	2,550	7,412	10,380	-7,833							
US30WB	2,908	1,191	1,717	1,191	4,928	989	5,917	7,695	-6,509	0	0	1,717	1,304	1,828	-109							
DIKESITE3	150	14	136	14	3,209	130	3,338	4,340	-4,326	0	0	136	21	30	107							
DIKESITE4	161	105	56	105	3,193	56	3,249	4,226	-4,124	0	0	56	72	100	-44							
DUFFRAMPA	2,005	412	1,594	412	2,295	1,038	3,332	4,334	-3,925	0	0	1,594	495	694	902							
DUFFRAMPD	4,361	1,616	2,746	1,616	3,466	1,526	4,991	6,492	-4,878	0	0	2,746	1,320	1,851	896							
DAYTONRAMPB	2,819	723	2,097	723	3,401	1,431	4,831	6,283	-5,563	0	0	2,097	476	668	1,432							
DAYTONRAMPC	3,748	802	2,947	802	4,025	1,933	5,958	7,750	-6,951	0	0	2,947	544	764	2,187							
US30EBDETOUR	4,494	4,494	0	4,494	3,895	0	3,895	5,077	-585	0	0	0	1,422	2,003	-2,003							
Project Totals:	29,455	15,617	13,843	15,617	32,884	7,103	39,983	52,014	-36,417	0	0	13,843	13,066	18,318	-4,465							

Excavation, Class 10, Roadway & Borrow
15,617
[4]

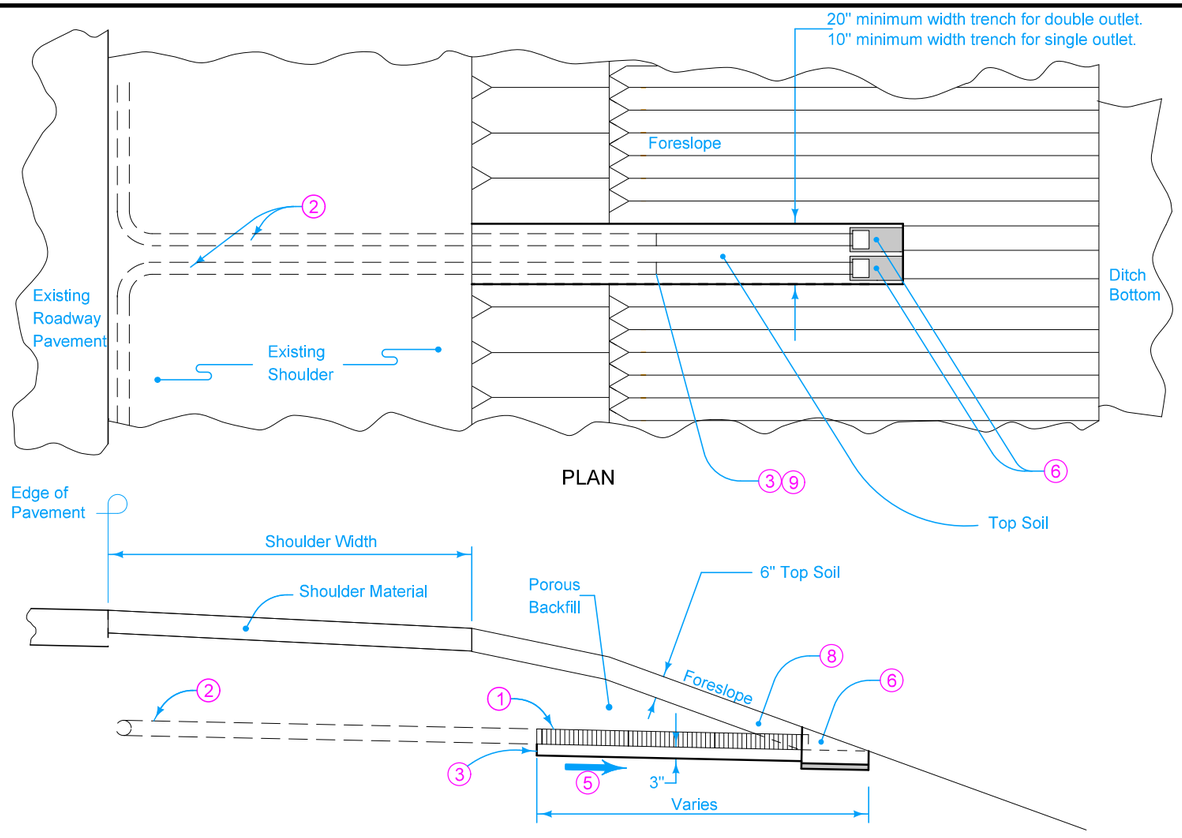
Embankment in Place, Contractor Furnished
36,417 / 1.3 = 28,013
[9] / 1.3

Topsoil, Strip, Salvage, & Spread
13,843
[12]

Topsoil, Furnish and Spread
4,465 / 1.4 = 3,189
[15] / 1.4

Compaction with Moisture & Density Control
6,587
[7]
Item is for Dike Fill Only

Compaction with Moisture Control
33,396
[7]
Item is for All Fill, Except Fill for Dike Construction



PLAN

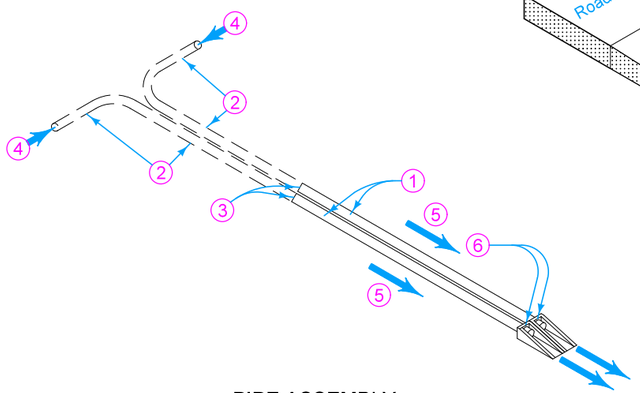
TYPICAL SECTION

LONGITUDINAL AND TRANSVERSE OUTLETS

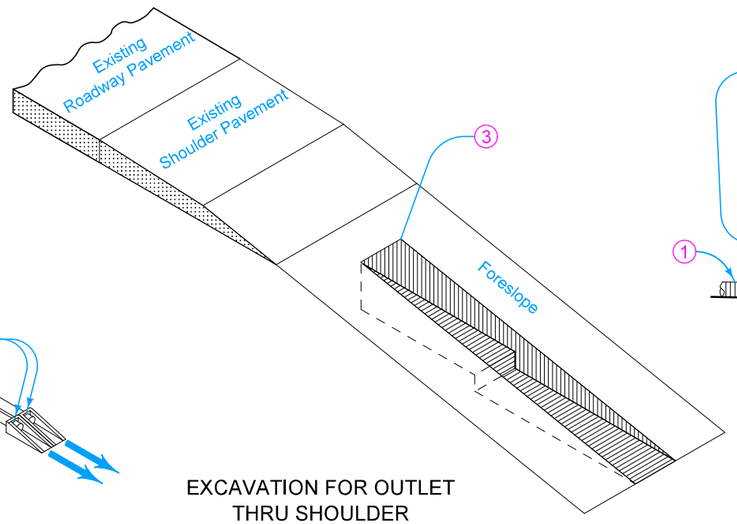
Extend subdrain 3 inches minimum (6 inches maximum) into precast subdrain headwall. Connect using one of the following methods:
-Grouted connection using a non-shrink grout complying with Materials I.M. 491.13
-Gasketed connection approved by the Engineer.

Shape adjacent slope to match slope of precast subdrain headwall.

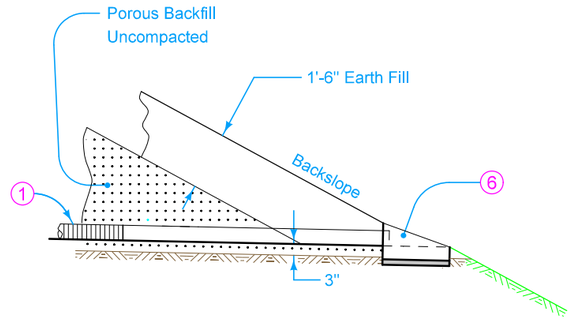
1. Perforated Subdrain (Polyethylene Corrugated Tubing).
2. Existing Subdrain
3. Location of connection shown for illustrative purposes only.
4. Direction of flow.
5. 6 inch minimum drop in elevation between longitudinal subdrain and outlet. 12 inch minimum drop for projects using recycled PCC subbase.
6. Precast concrete headwall. Refer to DR-306 for details.
7. Bevel the trench to provide a minimum of 3 inches of porous backfill surrounding all portions of subdrain pipe.
8. Place Top Soil over outlet and carefully compact to avoid damaging outlet pipe.
9. If present, remove existing 6" CMP extension (unknown length, but estimated at 6' +/-, no additional payment will be made if the CMP section is longer than 6'). Connect to existing subdrain with appropriate coupler.



PIPE ASSEMBLY
ISOMETRIC VIEW



EXCAVATION FOR OUTLET
THRU SHOULDER
ISOMETRIC VIEW



BACKSLOPE OUTLET
TYPICAL SECTION

Contract Item:
Subdrain Outlet, DR-306

Tabulation:
104-9A

Details for Existing Subdrain Extensions

MODIFIED

MODIFICATIONS: Showing connection to existing subdrain outlet

PRECAST CONCRETE HEADWALL FOR SUBDRAIN OUTLETS

SHEET 1 of 2

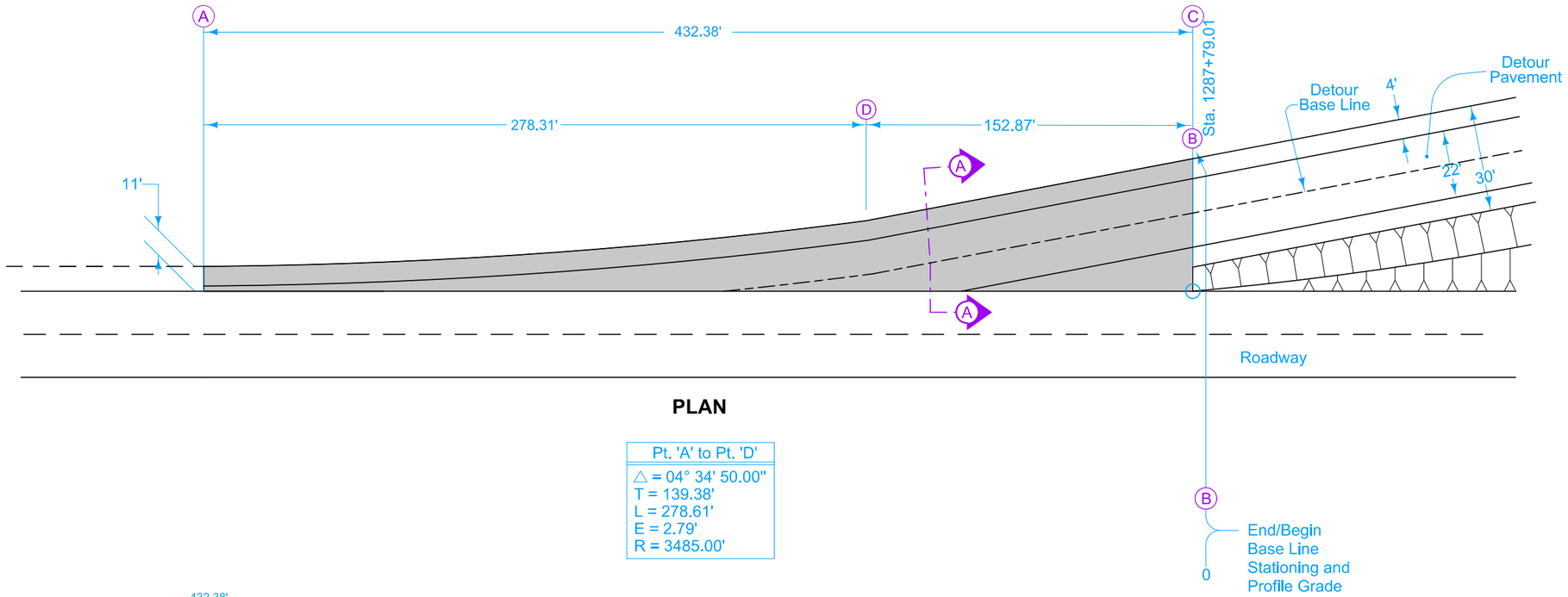
SHEET 2 OF 2 is Unchanged, Refer to DR-306 for Sheet 2

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **U.1**	

16:06:46 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_U01.dgn

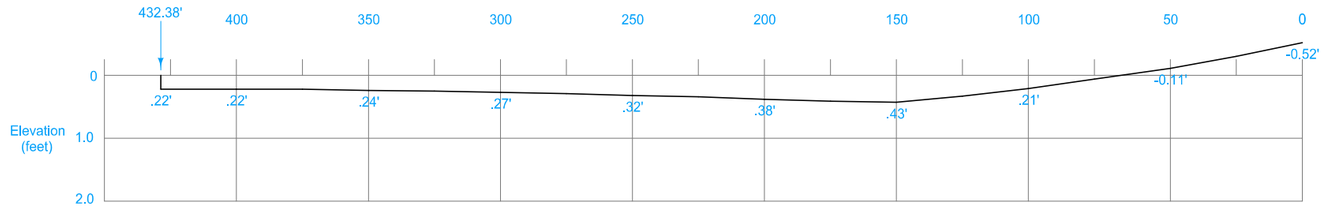
Construct detour connection pavement and subbase the same thickness as detour pavement and subbase.

For joint details, see PV-101



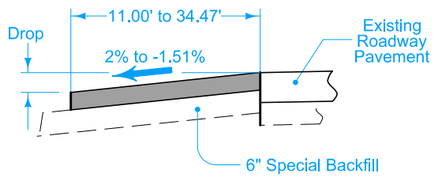
PLAN

Pt. 'A' to Pt. 'D'
△ = 04° 34' 50.00"
T = 139.38'
L = 278.61'
E = 2.79'
R = 3485.00'



NOTE: The algebraic difference between profile grade for Ramp Base Line at (B) and relative profile grade of Mainline at (C) is 0.36%.

PROFILE



SECTION A-A

TABLE OF OFFSETS AND DROPS FOR DETOUR PAVEMENT																			
DISTANCE (Ft.)	432.38	425	400	375	350	325	300	275	250	225	200	175	150	125	100	75	50	25	0
OFFSET (Ft.)	11	11.01	11.15	11.47	11.97	12.65	13.52	14.56	15.78	17.18	18.76	20.52	22.46	24.46	26.46	28.47	30.47	32.47	34.47
SLOPE (%)	2	2	2	2	2	2	2	2	2	2	2	2	1.93	1.36	0.79	0.22	-0.35	-0.92	-1.49
DROP (Ft.)	0.22	0.22	0.22	0.23	0.24	0.25	0.27	0.29	0.32	0.34	0.38	0.41	0.43	0.33	0.21	0.06	-0.11	-0.30	-0.52

NOTE:The elevations are established by the following slopes:
0' to 152.87' -------- Transition from 2% to -2%
152.87' to 432.38' - Constant 2%

Contract Items:
Detour Pavement
Special Backfill

MODIFIED
STANDARD ROAD PLAN

REVISION
1 | 10-21-14

PV-428

SHEET 1 of 1

MODIFICATIONS: Changed "ramp entrance" to "detour connection" and "mainline" to "detour". Removed circle notes.

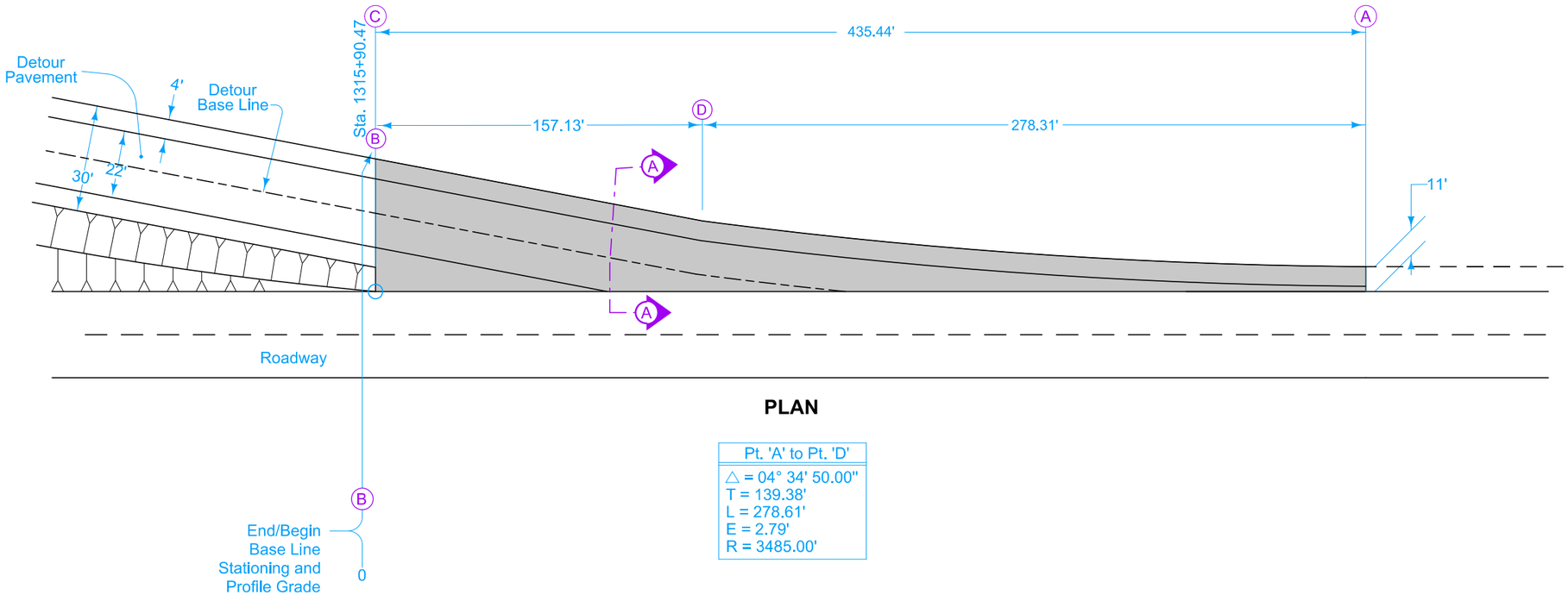
TWO-LANE DETOUR CONNECTION (WEST)

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **U.2**

16:06:47 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_U01.dgn

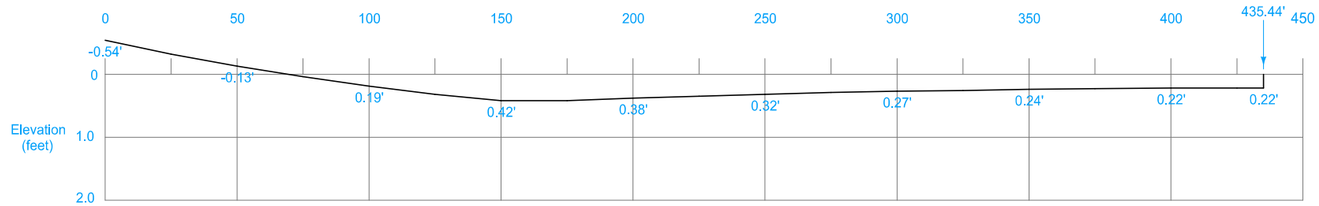
Construct detour connection pavement and subbase the same thickness as detour pavement and subbase.

For joint details, see PV-101



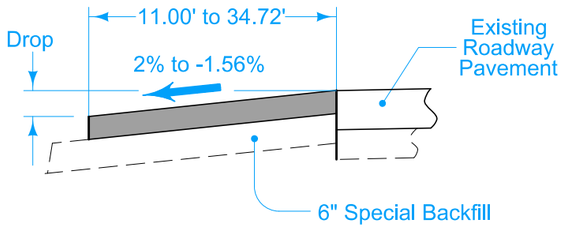
PLAN

Pt. 'A' to Pt. 'D'
△ = 04° 34' 50.00"
T = 139.38'
L = 278.61'
E = 2.79'
R = 3485.00'



NOTE: The algebraic difference between profile grade for Ramp Base Line at (B) and relative profile grade of Mainline at (C) is 0.26%.

PROFILE



SECTION A-A

TABLE OF OFFSETS AND DROPS FOR DETOUR PAVEMENT																				
DISTANCE (Ft.)	0	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	435.44
OFFSET (Ft.)	34.72	32.72	30.71	28.71	26.71	24.71	22.70	20.75	18.96	17.36	15.94	14.70	13.63	12.75	12.05	11.52	11.18	11.02	11.00
SLOPE (%)	-1.56	-0.99	-0.42	0.15	0.72	1.29	1.86	2	2	2	2	2	2	2	2	2	2	2	2
DROP (Ft.)	-0.54	-0.32	-0.13	0.04	0.19	0.32	0.42	0.42	0.38	0.35	0.32	0.29	0.27	0.26	0.24	0.23	0.22	0.22	0.22

NOTE:The elevations are established by the following slopes:
0' to 155.93' --------- Transition from -2% to 2%
155.93' to 435.44' - Constant 2%

Contract Items:
Detour Pavement
Special Backfill

MODIFIED STANDARD ROAD PLAN

REVISION	
1	10-21-14

PV-428

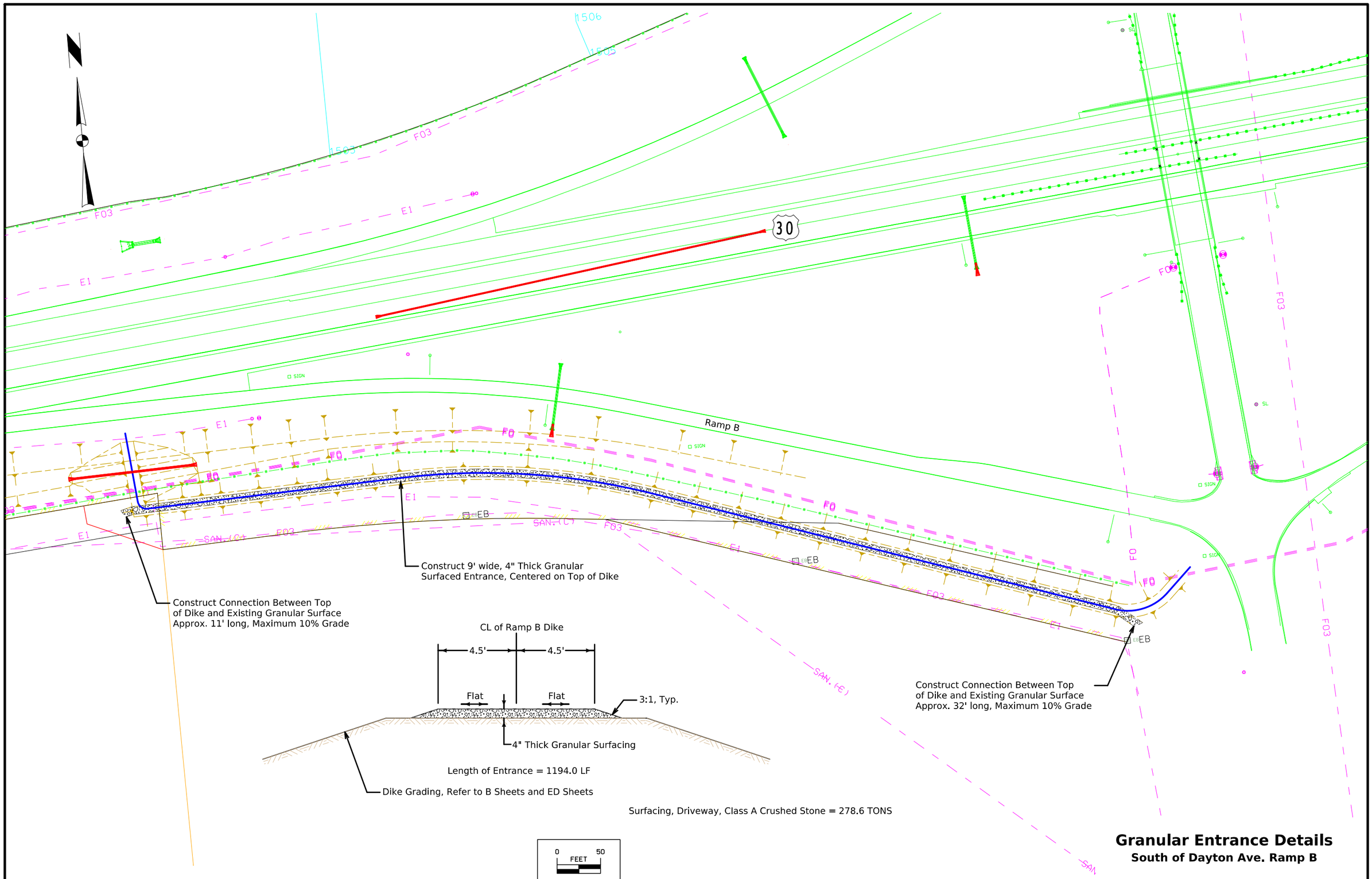
SHEET 1 of 1

MODIFICATIONS: Changed "ramp entrance" to "detour connection" and "mainline" to "detour". Removed circle notes.

TWO-LANE DETOUR CONNECTION (EAST)

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **U.3**

16:06:47 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_U01.dgn



Granular Entrance Details

South of Dayton Ave. Ramp B

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER U.4

16:07:29 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_U06.dgn

1258+00 1259+00 1260+00 1261+00 1262+00 1263+00 1264+00 1265+00 1266+00 1267+00 1268+00 1269+00 1270+00 1271+00 1272+00 1273+00

Begin Granular Shoulder Removal
(Class 13, Waste)
STA: 1259+92.11
OFF: 19.29' RT

STA: 1259+92.11
OFF: 24.84' RT
Begin Paved Shoulder Removal

4' Width

2' Width

Duff Ave. Ramp A

Duff Ave. Ramp D

E1

SAN.(C)

FO

SIGN

30

0 FEET 50

1273+00 1274+00 1275+00 1276+00 1277+00 1278+00 1279+00 1280+00 1281+00 1282+00 1283+00 1284+00 1285+00 1286+00 1287+00 1288+00

F03

E1

SAN.(C)

SL

SIGN

4' Width
Paved Shoulder Removal

2' Width
Granular Shoulder Removal
(Class 13, Waste)

Access to Sports Complex

0 FEET 50

REMOVAL DETAILS

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **U.5**

16:07:51 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_U07.dgn

1288+00 1289+00 1290+00 1291+00 1292+00 1293+00 1294+00 1295+00 1296+00 1297+00 1298+00 1299+00 1300+00 1301+00 1302+00 1303+00

South Skunk River

30

Stop Granular Shoulder Removal
(Class 13, Waste)
STA: 1288+06.17
OFF: 18.39' RT

STA: 1287+78.22
OFF: 25.00' RT
Stop Paved Shoulder Removal

Remove Guardrail (Eastbound and Westbound)

STA: 1300+29.43
OFF: 96.31' RT
End Removal of Recreational Trail

Access to Sports Complex

Recreational Trail

STA: 1298+65.28
OFF: 170.70' RT
Begin Removal of Recreational Trail

0 FEET 50

1303+00 1304+00 1305+00 1306+00 1307+00 1308+00 1309+00 1310+00 1311+00 1312+00 1313+00 1314+00 1315+00 1316+00 1317+00 1318+00

Dayton Ave. Ramp C

Remove Guardrail (Eastbound and Westbound)

30

Resume Granular Shoulder Removal
(Class 13, Waste)
STA: 1315+64.33
OFF: 18.41' RT

2' Width

4' Width

STA: 1315+88.96
OFF: 25.00' RT
Resume Paved Shoulder Removal

Dayton Ave. Ramp B

0 FEET 50

REMOVAL DETAILS

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **U.6**

16:07:53 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_U07.dgn

1318+00 1319+00 1320+00 1321+00 1322+00 1323+00 1324+00 1325+00 1326+00 1327+00 1328+00 1329+00 1330+00 1331+00 1332+00 1333+00

Dayton Ave. Ramp C

Dayton Ave. Ramp A

30

2' Width
Granular Shoulder Removal
(Class 13, Waste)

4' Width
Paved Shoulder Removal

Dayton Ave. Ramp D

Dayton Ave.
Ramp B

0 FEET 50

1333+00 1334+00 1335+00 1336+00 1337+00 1338+00 1339+00 1340+00 1341+00 1342+00 1343+00 1344+00 1345+00 1346+00 1347+00 1348+00

Dayton Ave. Ramp A

30

Dayton Ave. Ramp D

2' Width
Granular Shoulder Removal
(Class 13, Waste)

4' Width
Paved Shoulder Removal

STA: 1338+90.00
OFF: 18.59' RT
End Granular Shoulder Removal
(Class 13, Waste)

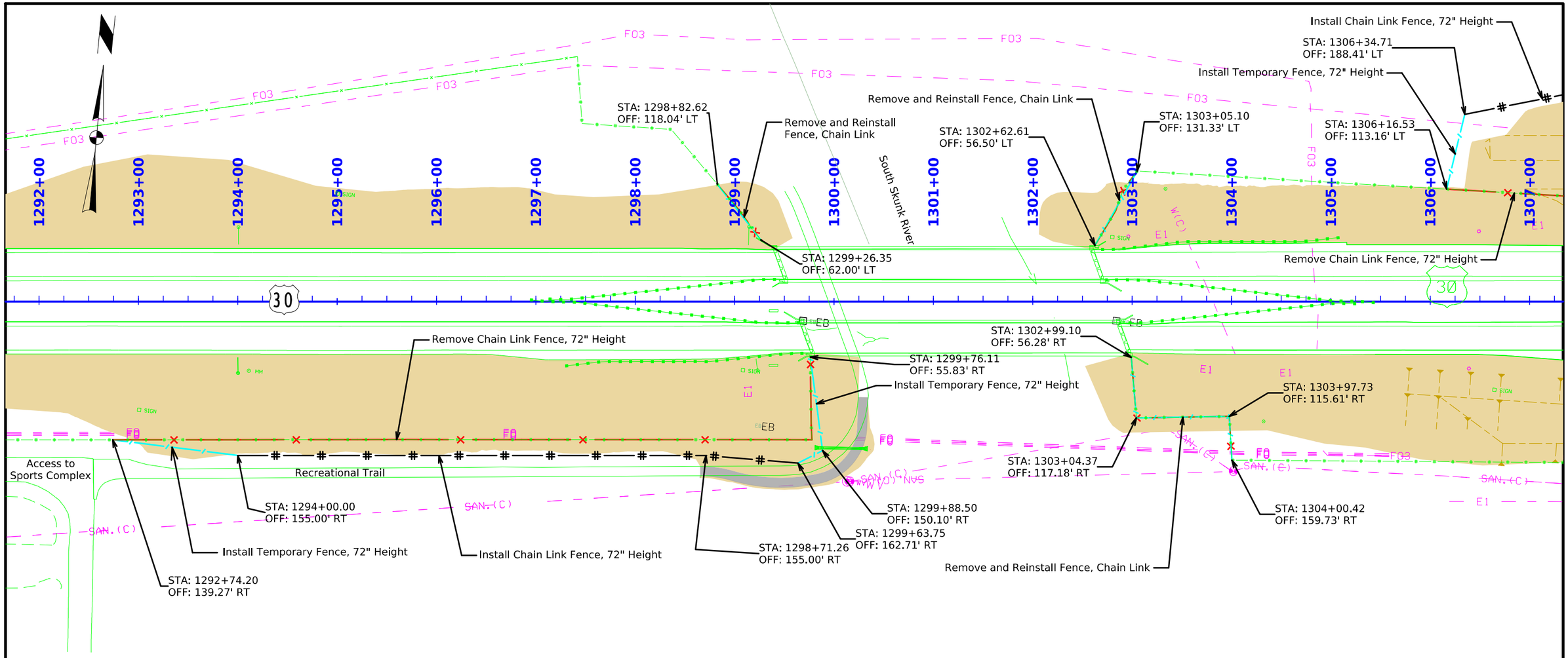
STA: 1338+90.00
OFF: 24.81' RT
End Paved Shoulder Removal

0 FEET 50

REMOVAL DETAILS

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **U.7**

16:07:56 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_U07.dgn



ITS Fiber Conduit (ITS-030-5(320)--25-85 is to be Installed after Removal of the Existing Fence, and Before Installation of the Proposed Fence

0 50
FEET

Fencing Layout

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **U.8**

16:08:12 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_U10.dgn

STA: 1306+82.04
OFF: 188.67' LT

Install Chain Link Fence, 72" Height

STA: 1307+67.89
OFF: 214.96' LT

Install Chain Link Fence, 72" Height

STA: 1308+89.39
OFF: 163.45' LT

Remove Chain Link Fence, 72" Height

1307+00 1308+00 1309+00 1310+00 1311+00 1312+00 1313+00 1314+00 1315+00 1316+00 1317+00 1318+00 1319+00 1320+00 1321+00 1322+00

30

STA: 1310+48.00
OFF: 163.93' RT

STA: 1311+08.24
OFF: 165.91' RT

Install Chain Link Fence, 72" Height

STA: 1314+02.85
OFF: 184.03' RT

Top of Dike

12', Top of Dike to Fence

STA: 1316+92.07
OFF: 256.14' RT

Install Chain Link Fence, 72" Height

Remove Chain Link Fence, 72" Height

STA: 1322+03.83
OFF: 477.34' RT

STA: 1321+99.39
OFF: 487.10' RT

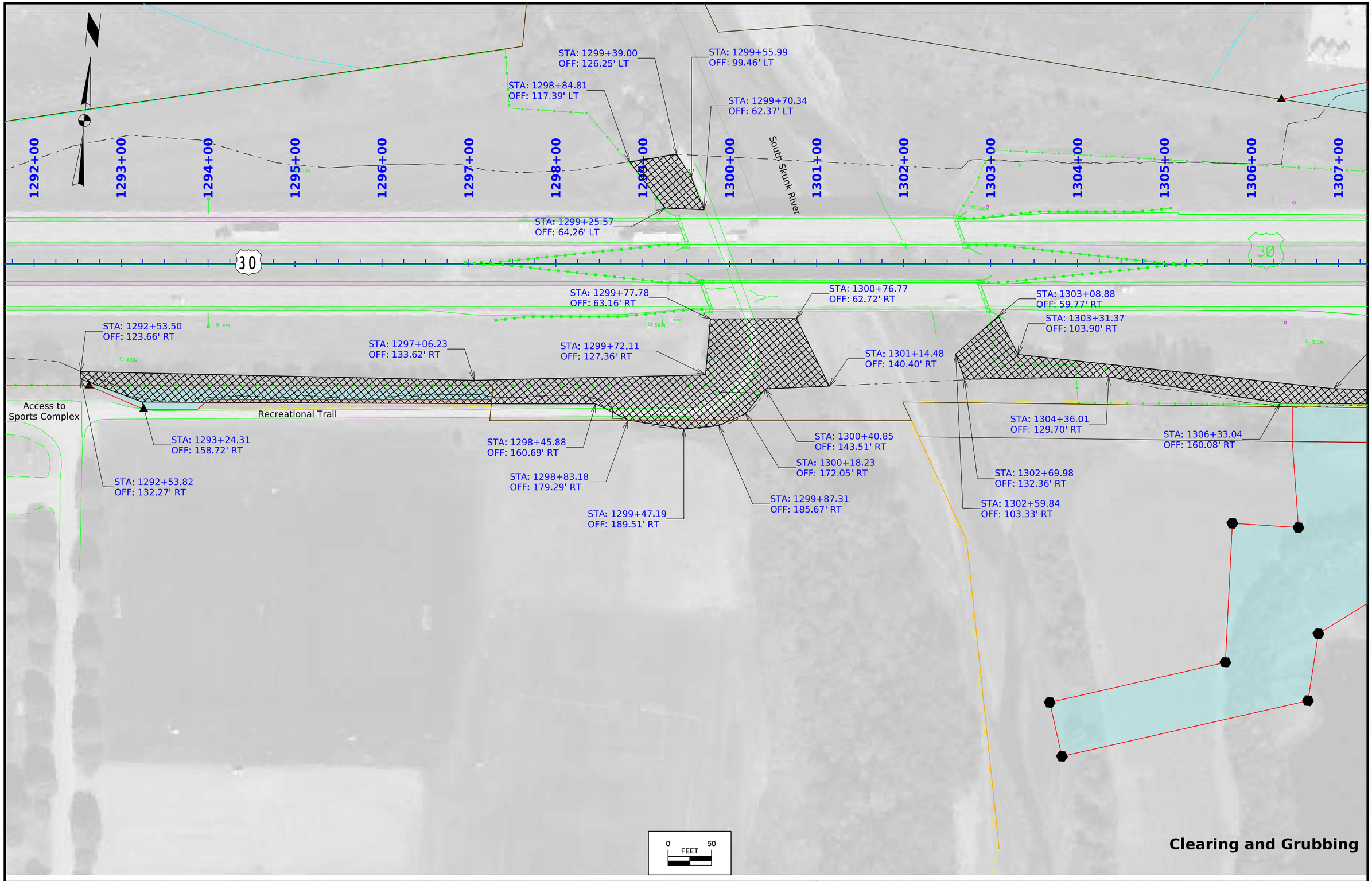
ITS Fiber Conduit (ITS-030-5(320)--25-85 is to be Installed after Removal of the Existing Fence, and Before Installation of the Proposed Fence

0 FEET 50

Fencing Layout

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER **U.9**

8:34:41 AM 8/8/2024 cholien pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_U10.dgn



FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **U.10**	

16:09:09 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_U11.dgn

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1307+00
1308+00
1309+00
1310+00
1311+00
1312+00
1313+00
1314+00
1315+00
1316+00
1317+00
1318+00
1319+00
1320+00
1321+00
1322+00

30

STA: 1306+94.57
OFF: 143.45' RT

STA: 1310+37.13
OFF: 148.09' RT

STA: 1314+61.72
OFF: 160.18' RT

STA: 1315+52.48
OFF: 180.95' RT

STA: 1310+37.86
OFF: 162.94' RT

STA: 1310+41.41
OFF: 188.76' RT

STA: 1311+22.51
OFF: 229.94' RT

STA: 1313+66.40
OFF: 246.17' RT

STA: 1315+42.03
OFF: 272.20' RT

STA: 1315+56.45
OFF: 223.98' RT

STA: 1317+79.95
OFF: 305.58' RT

STA: 1321+74.25
OFF: 433.13' RT

STA: 1321+49.33
OFF: 482.11' RT

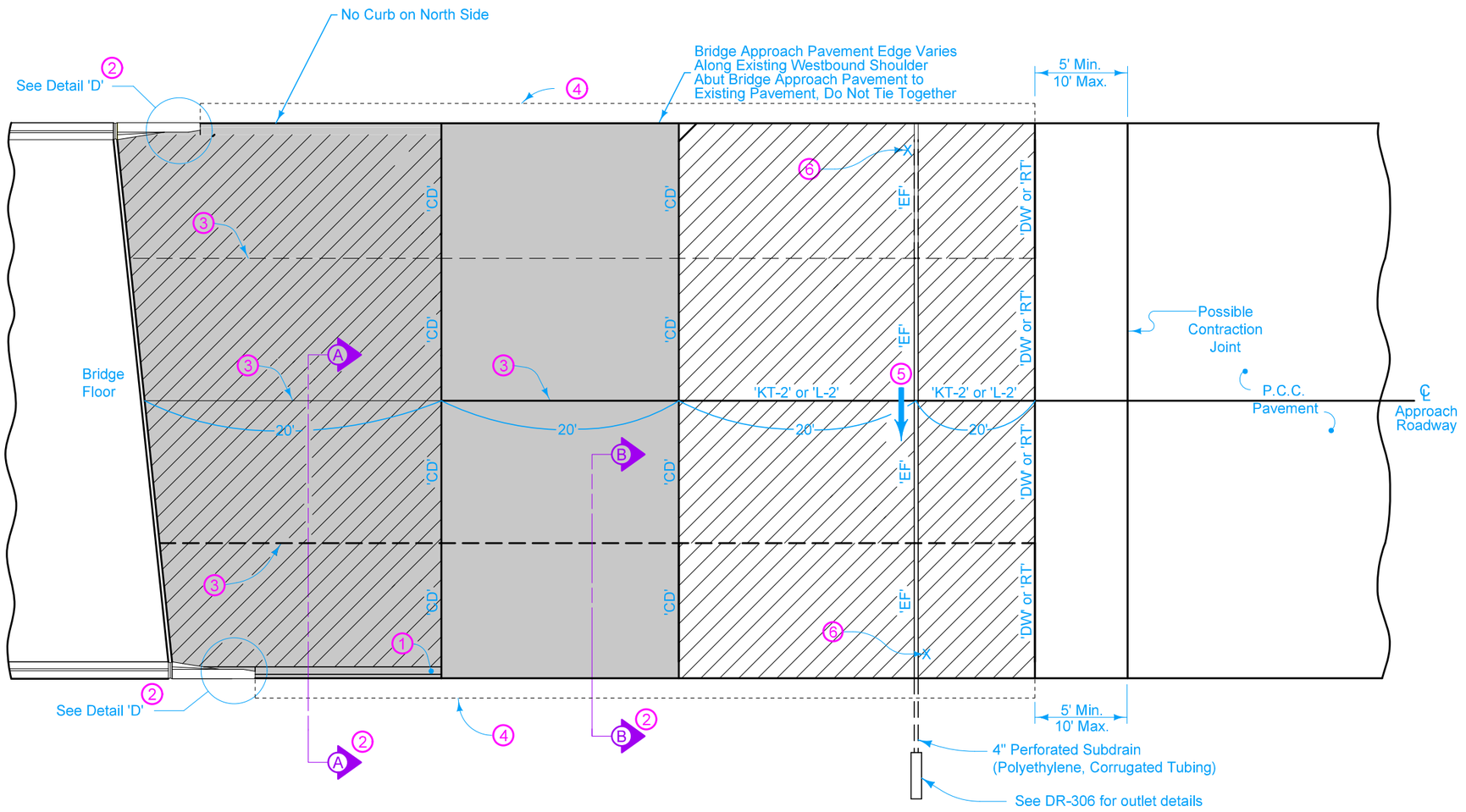
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Clearing and Grubbing

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **U.11**	

16:09:12 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_U11.dgn

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PLAN VIEW

For joint details, see PV-101.

1. Build 4 inch Sloped Curb to end of Double Reinforced Section. Refer to PV-102 for curb and runout details.
2. See BR-201.
3. Longitudinal Joint (PV-101):
   Single Pour - Saw cut joint per Detail B .
   Two Pours - Use 'KS-1' joint (Single Reinforced Section).
   Use 'KS-2' joint (Double Reinforced Section).
4. Polymer Grid and excavation limits of Modified Subbase 2 feet outside of pavement edge. See BR-201.
5. Slope subdrain to drain.
6. Place an "X" in the plastic concrete near the 'EF' joint at the outside edge of pavement.

Pay limits for contract item include the following areas:

- Double Reinforced Section
- Single Reinforced Section
- Non-Reinforced Section

MODIFIED STANDARD ROAD PLAN

REVISION 10-18-22

BR-211

MODIFICATIONS: Project Specific.

BRIDGE APPROACH (ABUTTING PCC OR COMPOSITE PAVEMENT)

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER U.12

8:30:41 AM 8/8/2024 cholien pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_U01.dgn

Sta 6327+00, 0.00' Lt.
Install 24" x 42' 2000D (trenched, west end)
Install 24" x 149' 2000D (trenchless)
Install 24" x 40' 2000D (trenched, east end)
Skew = 5° Rt. Ahd.
w/ Apron (west end)
w/ Flap Gate (east end)
F.L. = Lt. 880.58
Rt. 877.75

Approx. Boring Pit Limits

20'

40'

6327+00

STA: 6326+90.30
OFF: 111.14' LT

Dayton Ave.

Approx. Boring Pit Limits
STA: 6327+10.42
OFF: 118.70' RT

20'

40'

Ramp C

6326+00

Ramp A

0 FEET 20

Dayton Ave. Culvert Details

905
900
895
890
885
880
875
870

Back of Curb
Dayton Ave.

20'
Buffer

20'
Buffer

Boring Pit Grading Line

Boring Pit Grading Line

2
1

2
1

24" RCP Apron

231 LF of 24" RCP at 1.23%

24" Flap Gate

42 LF
Trenched

149 LF
Trenchless Limits

40 LF
Trenched

+42

+91

+31

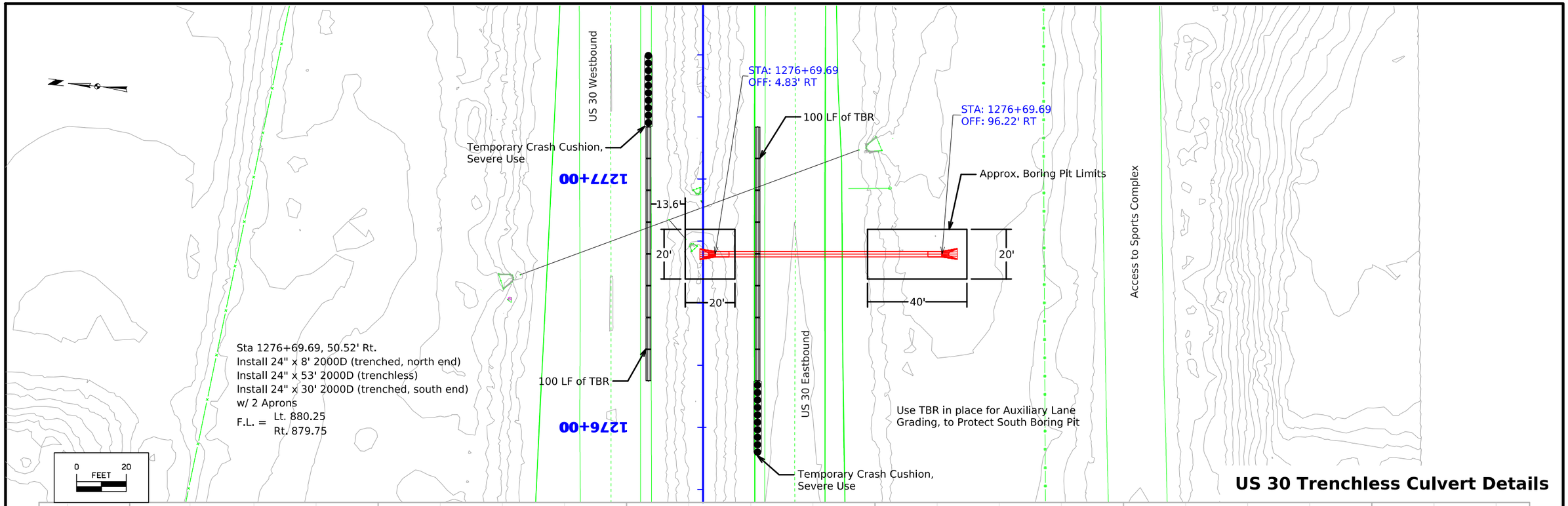
0+00

1+00

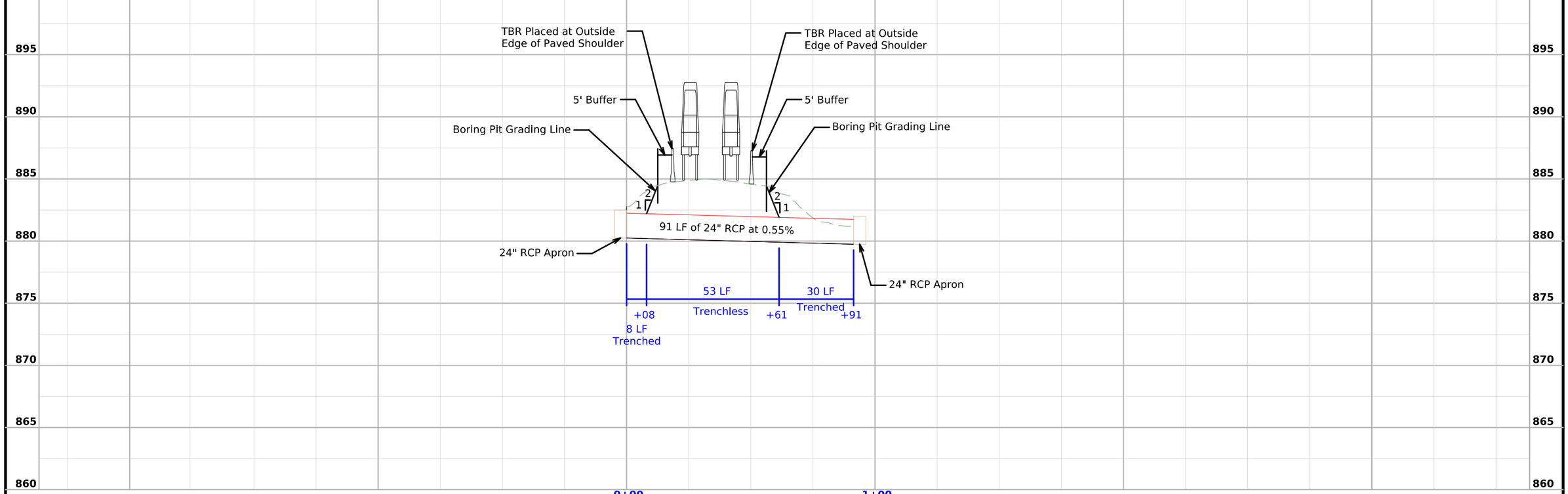
2+00

FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **V.1**

16:19:18 01/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_V01.dgn



US 30 Trenchless Culvert Details



FILE NO.	ENGLISH	DESIGN TEAM **WHKS & CO.**	**STORY** COUNTY	PROJECT NUMBER **NHSX-030-5(302)--3H-85**	SHEET NUMBER **V.2**

8:37:38 AM 8/8/2024 cholien pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\SHT_85030302_V01.dgn

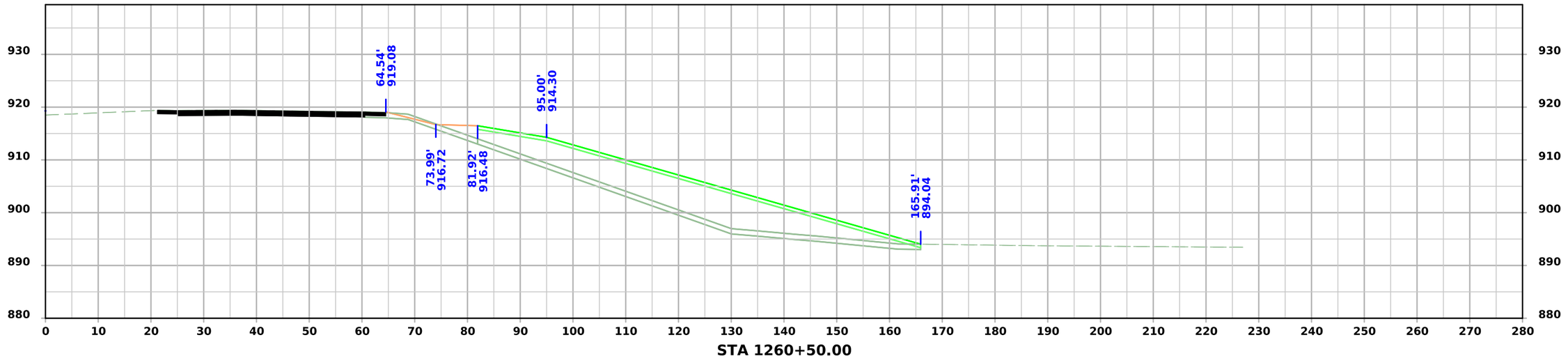
CROSS SECTION VIEW COLOR LEGEND

Design Color No.	Feature
Aggregate	
(64)	Choke Stone
(42)	Engineering Fabric
(8)	Flooded Backfill
(92)	Macadam Stone
(20)	Modified
(12)	Plowing Shaping
(14)	Porous Backfill
(8)	Revetment Class A
(6)	Revetment Class B
(62)	Revetment Class C
(188)	Revetment Class D
(28)	Revetment Class E
(12)	Shoulder Special Backfill
(12)	Special Backfill
(20)	Subbase
(20)	Subbase Lower
(20)	Subbase Upper
(118)	Subgrade Treatment
Asphalt	
(207)	HMA Base Course
(207)	HMA Interim Course
(207)	HMA Surface Course
Concrete	
(0)	Barrier Concrete
(0)	Barrier Concrete Footing
(0)	Curb Gutter
(48)	Flowable Mortar
(0)	Median Concrete
(0)	PCC Pavement
(0)	Sidewalk
Shoulder	
(209)	Shoulder HMA
(0)	Shoulder PCC
(6)	Shoulder Granular
Existing	
(0)	Existing Pavement
Structural	
(112)	Noise Wall
(112)	Noise Wall Footing
(112)	Retaining Wall Back
(112)	Retaining Wall Back Excavate
(112)	Retaining Wall Face
(112)	Retaining Wall Front Excavate
(112)	Retaining Wall Front Footing
(112)	Retaining Wall MSE Gutter
(112)	Retaining Wall Reinforced Earth
Grading	
(8)	Behind Curb Cut
(6)	Granular
(13)	Granular Back Fill
(48)	Rock Undercut
(8)	Shoulder Earth Fill
(2)	Side Slopes
(226)	Side Slopes Dressing
Substrata	
(128)	Boulder Substrata
(48)	Broken Weathered Substrata
(3)	Core Out Substrata
(203)	Existing Pavement Substrata
(6)	Loam Substrata
(80)	Rock Substrata
(4)	Select Sand Substrata
(3)	Shale Substrata
(10)	Topsoil Substrata
Unsuitable / Waste	
(3)	Unsuitable Type A
(13)	Unsuitable Type B
(11)	Unsuitable Type C
(3)	Waste

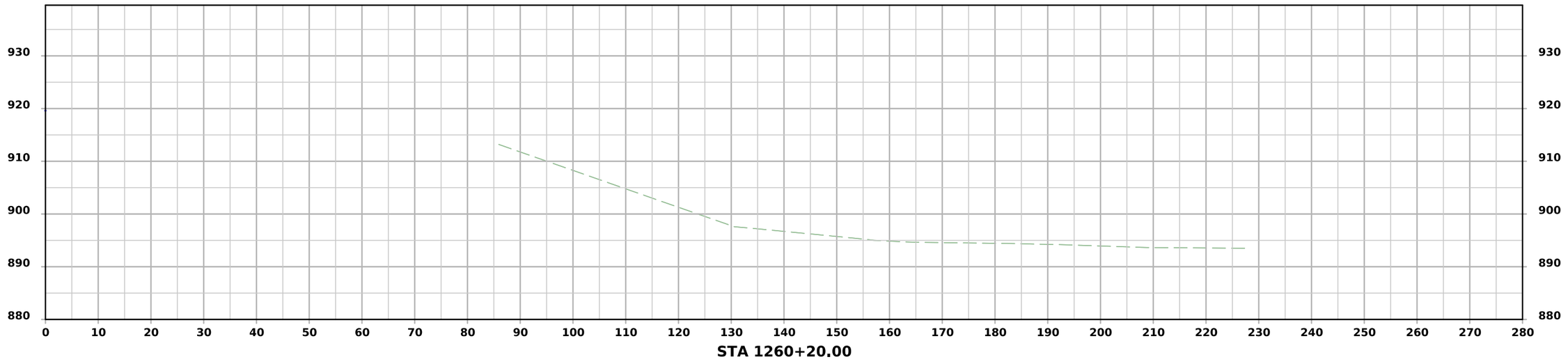
CROSS SECTIONS
LEGEND AND INFORMATION SHEET

(COVERS SHEET SERIES W, X, Y, & Z)

EB US HWY 30



STA 1260+50.00

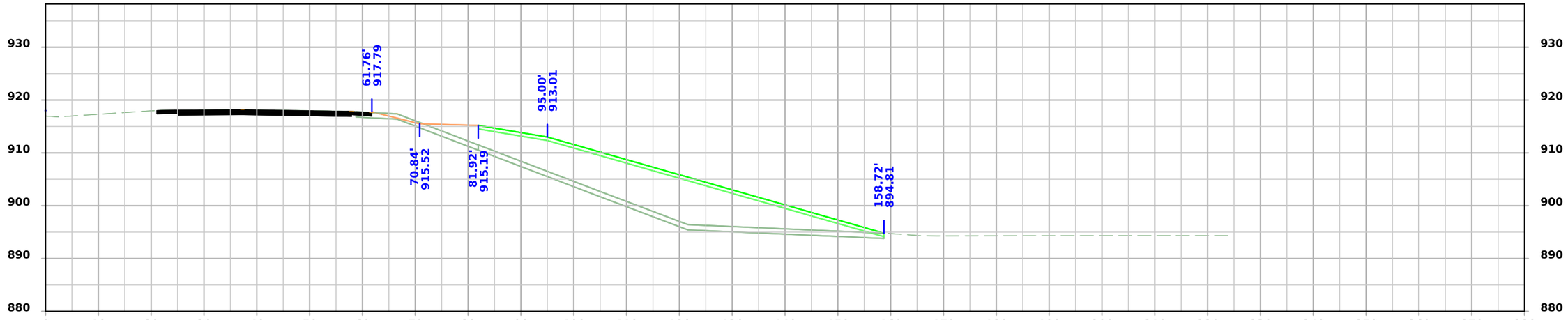


STA 1260+20.00

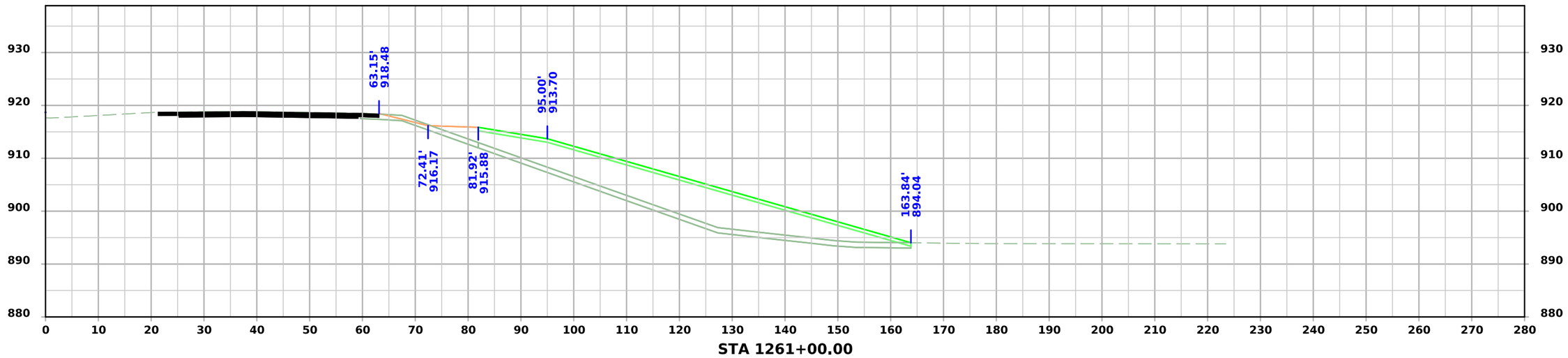
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08:47:02 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30EB_WHKS_85030271Z08.dgn

EB US HWY 30



STA 1261+50.00

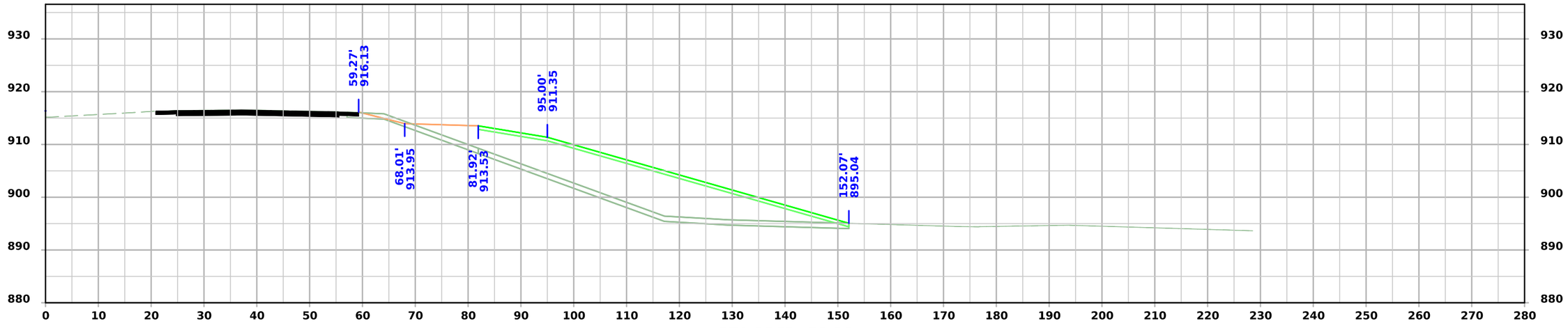


STA 1261+00.00

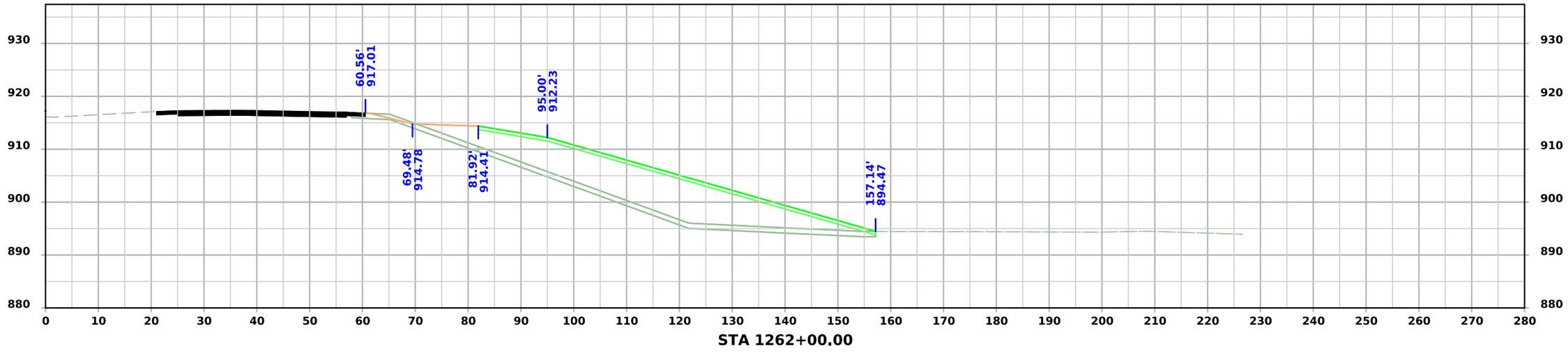
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08:47:05 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30EB_WHKS_85030271Z08.dgn

EB US HWY 30



STA 1262+50.00

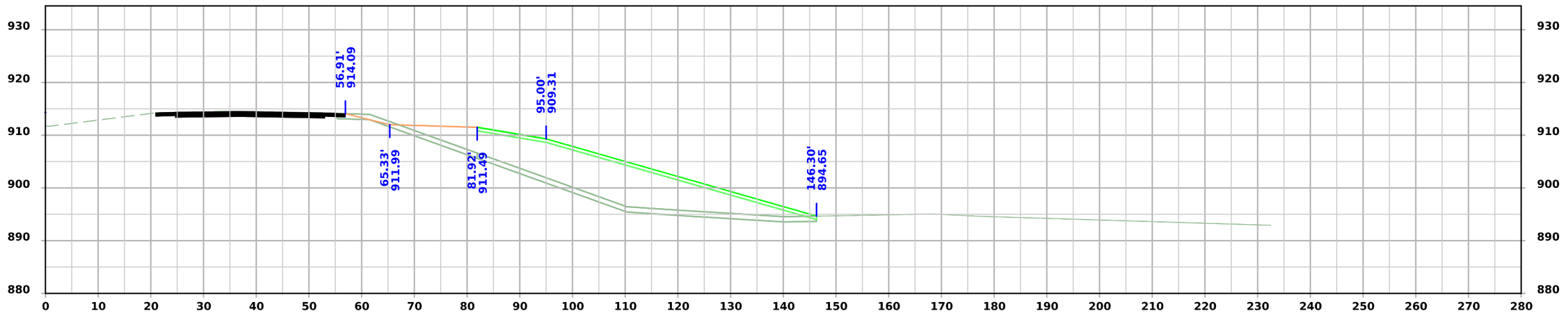


STA 1262+00.00

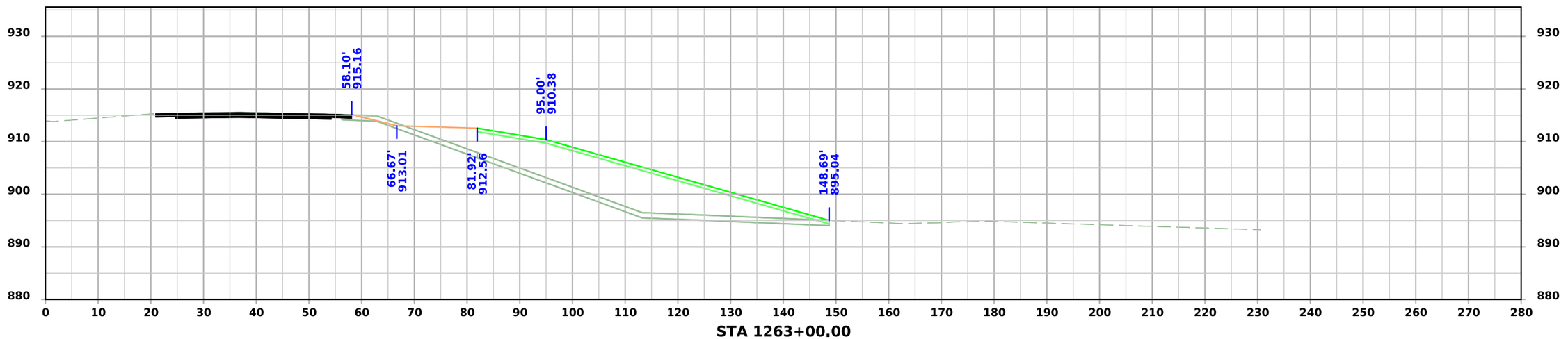
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EB US HWY 30



STA 1263+50.00

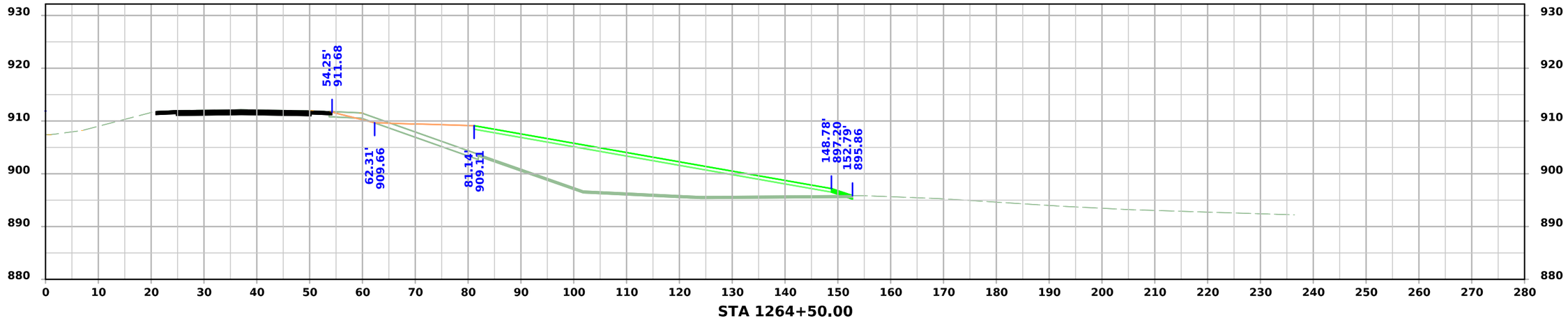


STA 1263+00.00

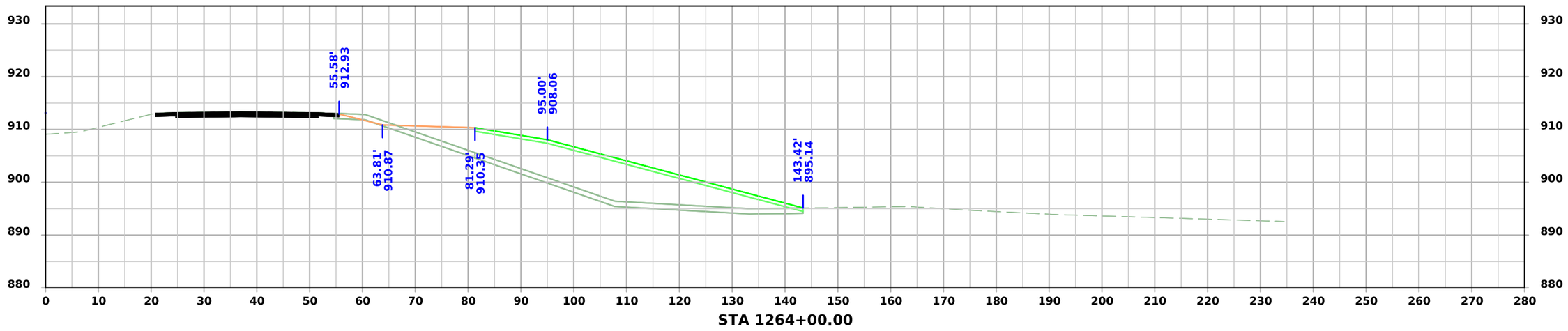
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EB US HWY 30



STA 1264+50.00

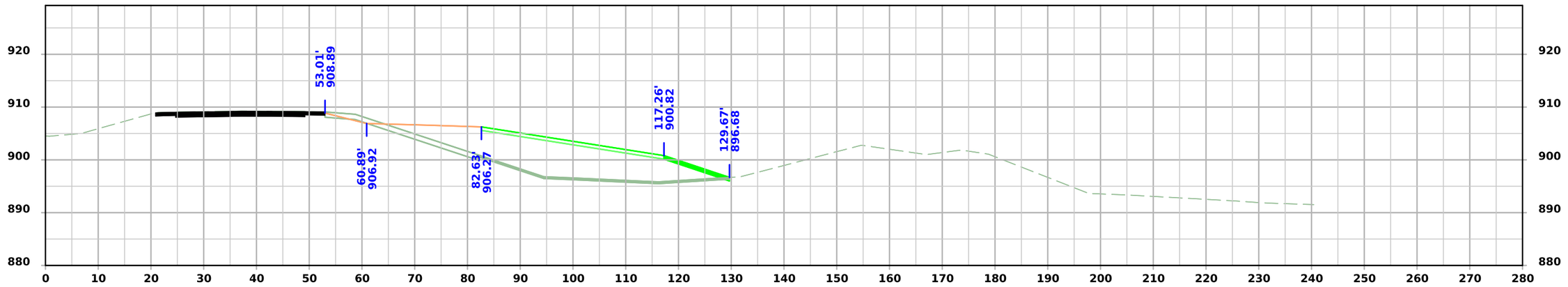


STA 1264+00.00

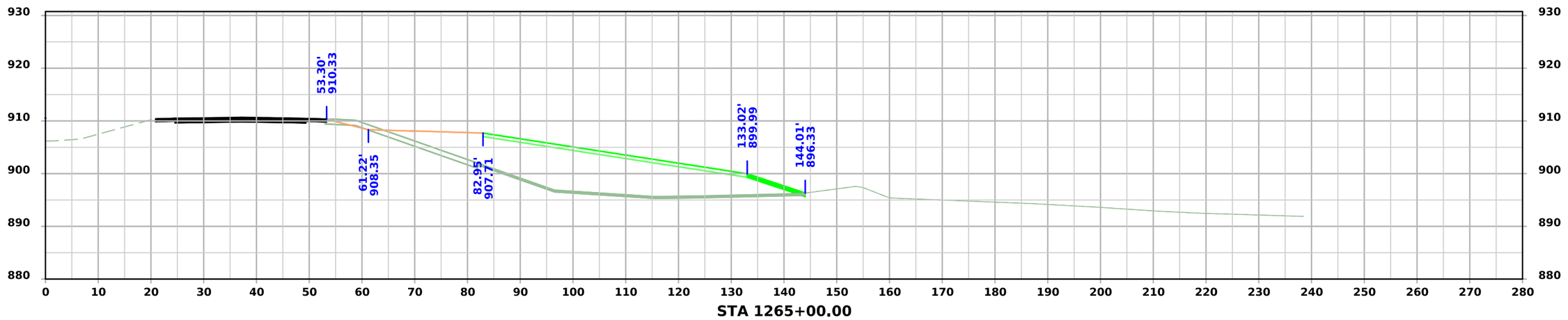
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.6

08:47:13 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30EB_WHKS_85030271Z08.dgn

EB US HWY 30



STA 1265+50.00

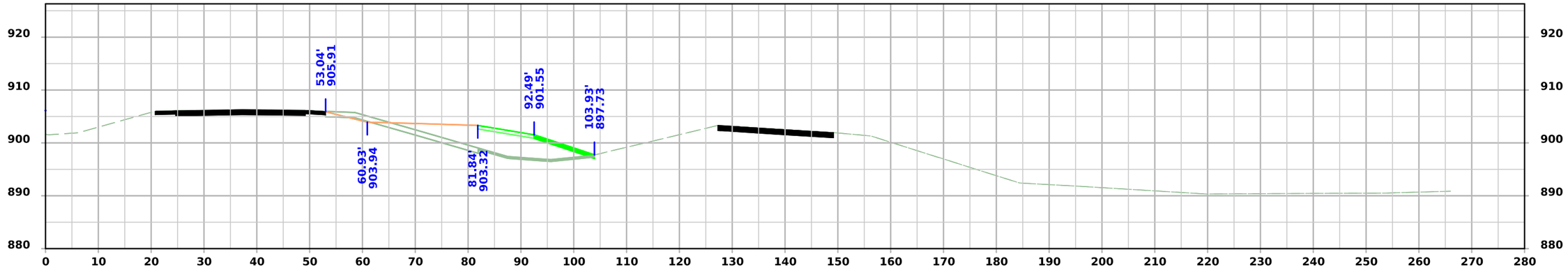


STA 1265+00.00

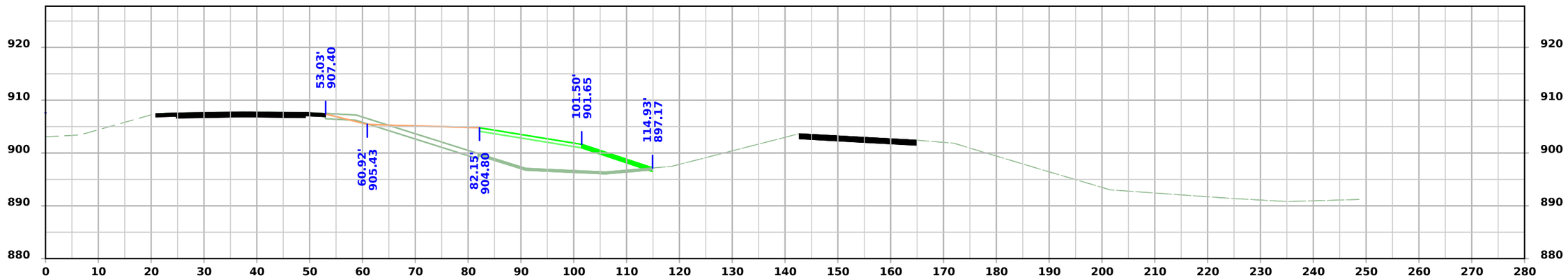
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.7

08:47:16 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30EB_WHKS_85030271Z08.dgn

EB US HWY 30



STA 1266+50.00

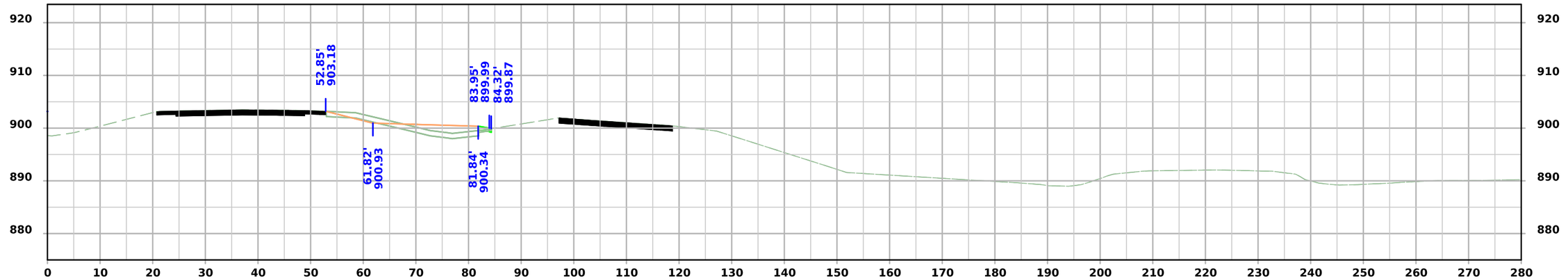


STA 1266+00.00

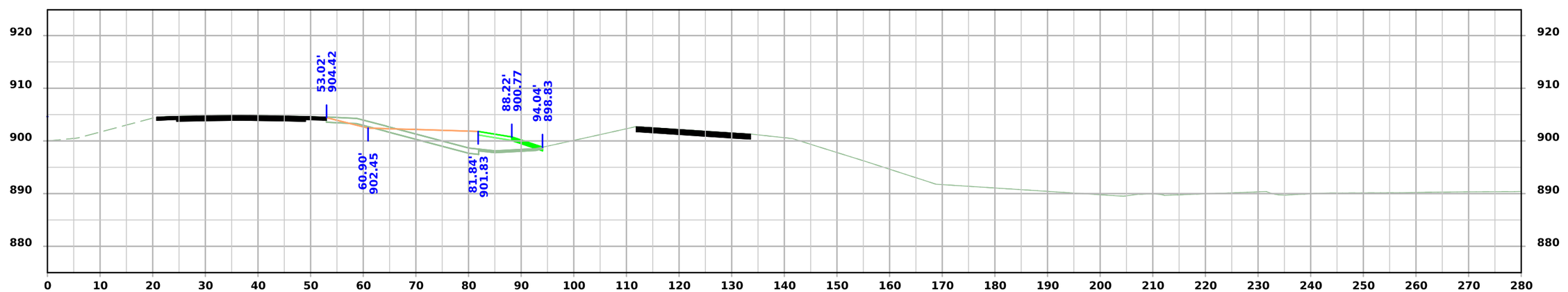
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EB US HWY 30



STA 1267+50.00

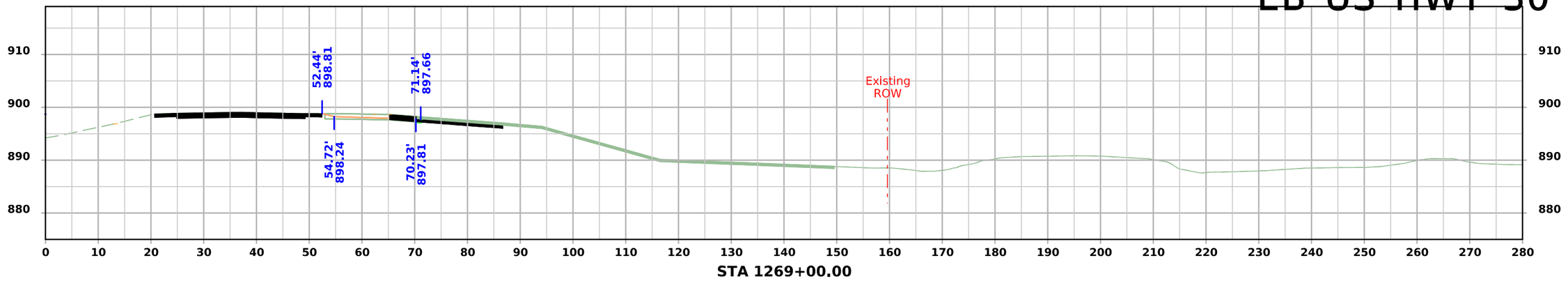


STA 1267+00.00

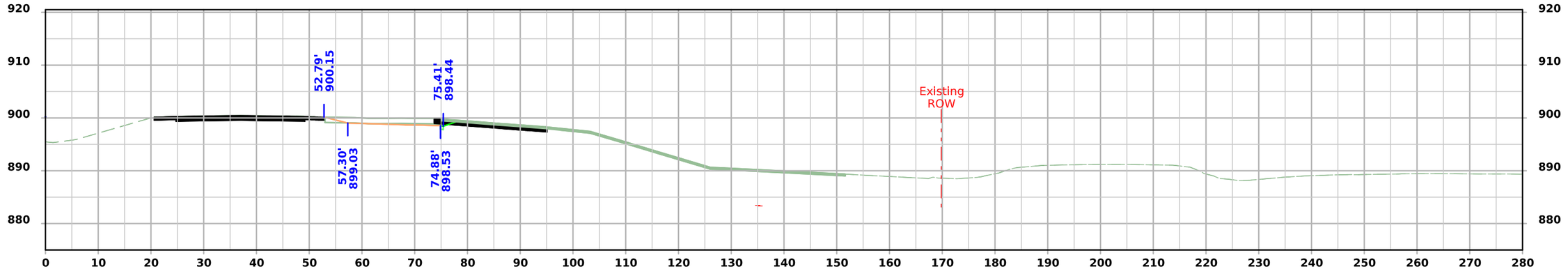
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.9

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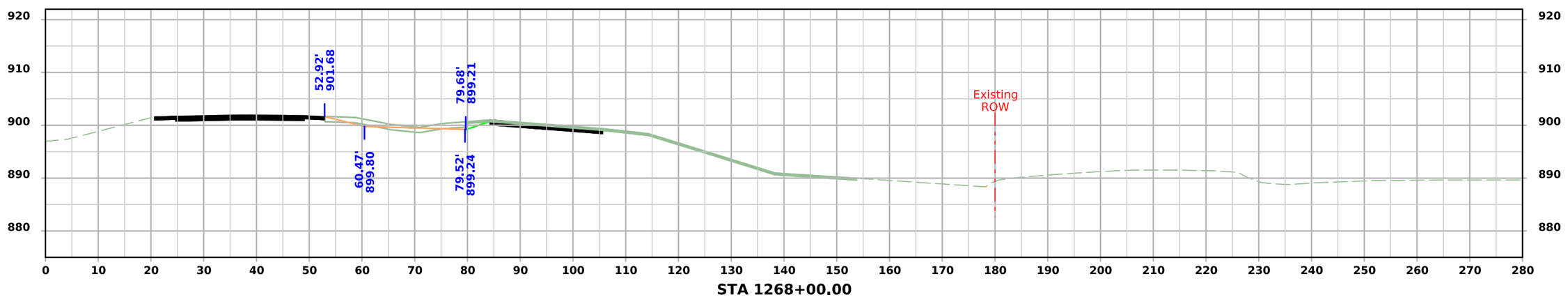
EB US HWY 30



STA 1269+00.00



STA 1268+50.00

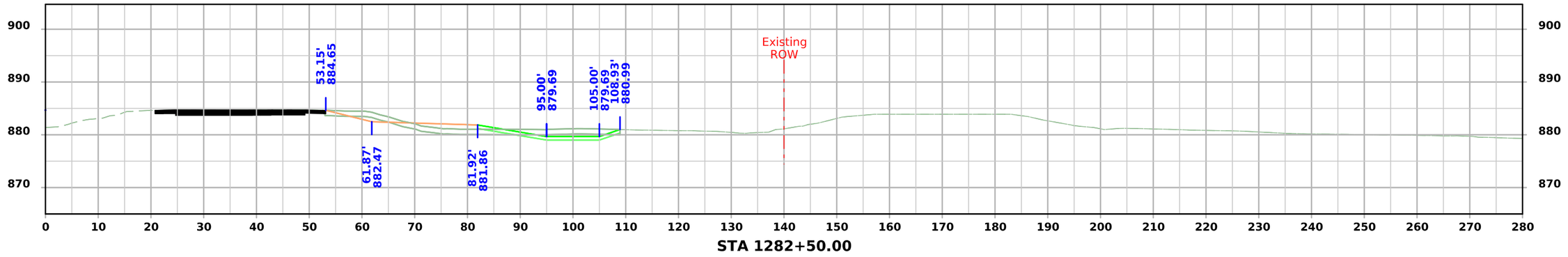


STA 1268+00.00

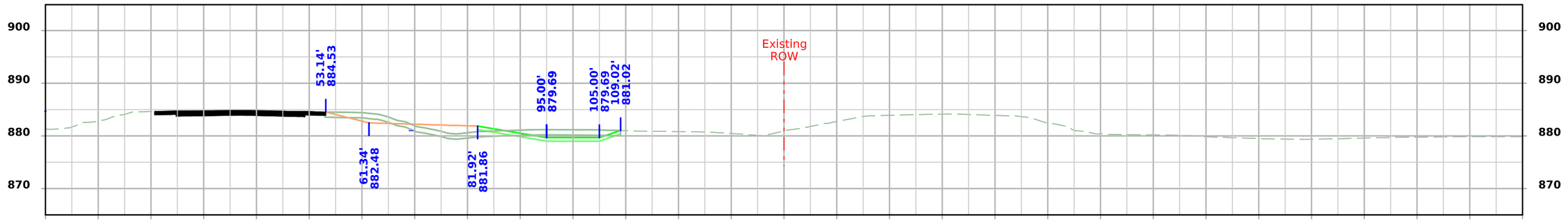
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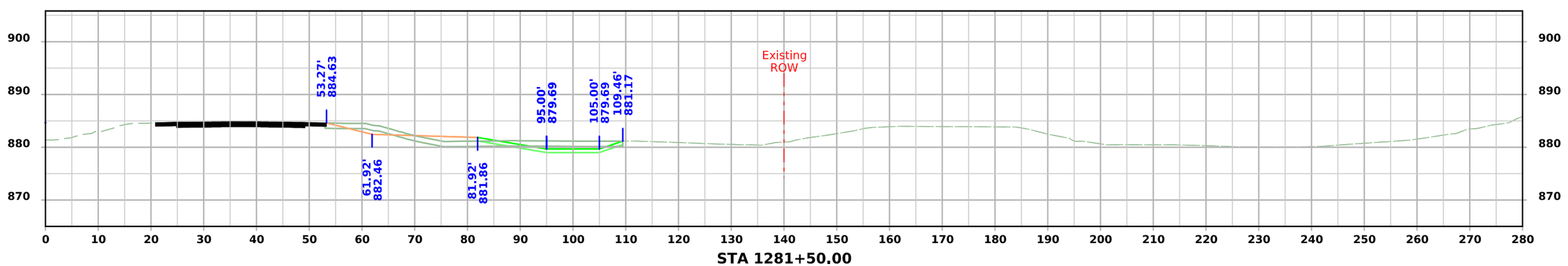
EB US HWY 30



STA 1282+50.00



STA 1282+00.00

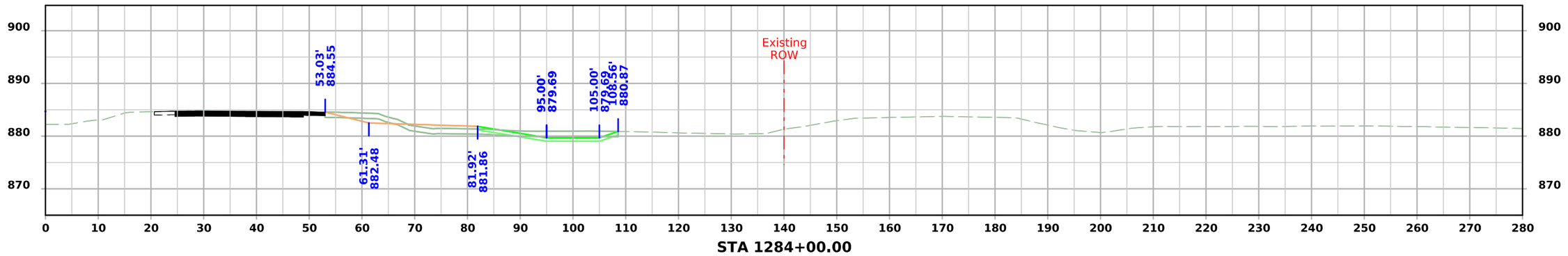


STA 1281+50.00

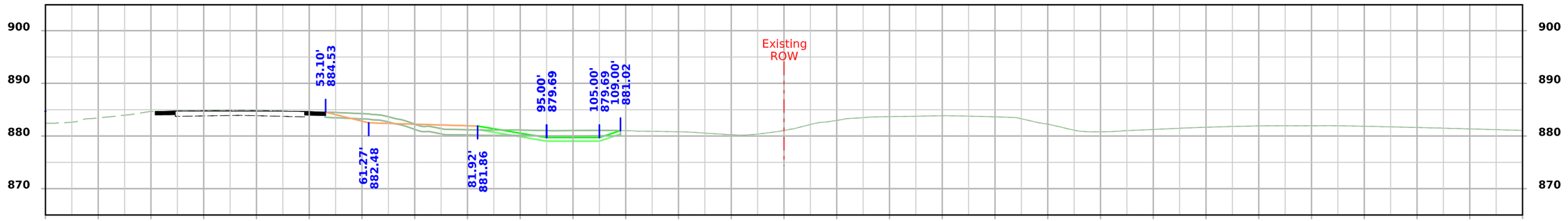
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.11

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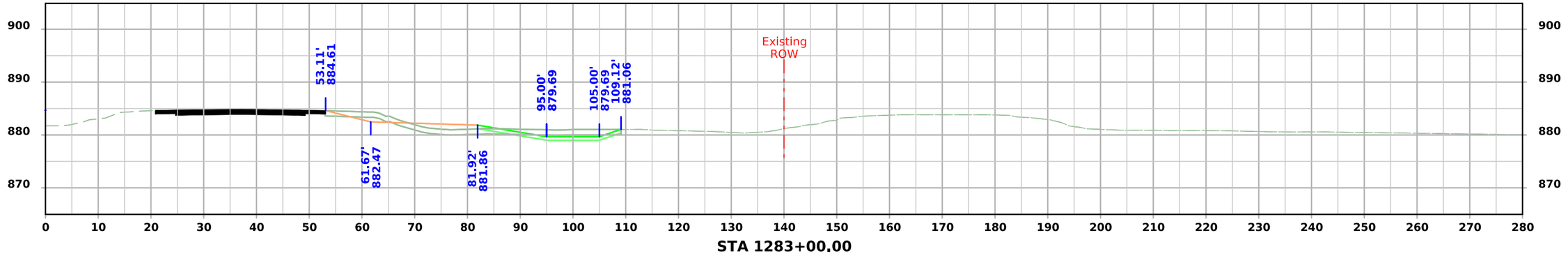
EB US HWY 30



STA 1284+00.00



STA 1283+50.00

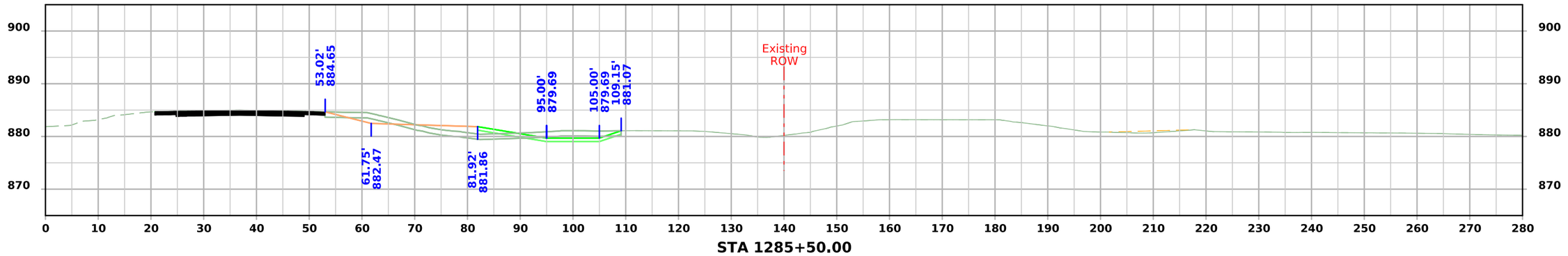


STA 1283+00.00

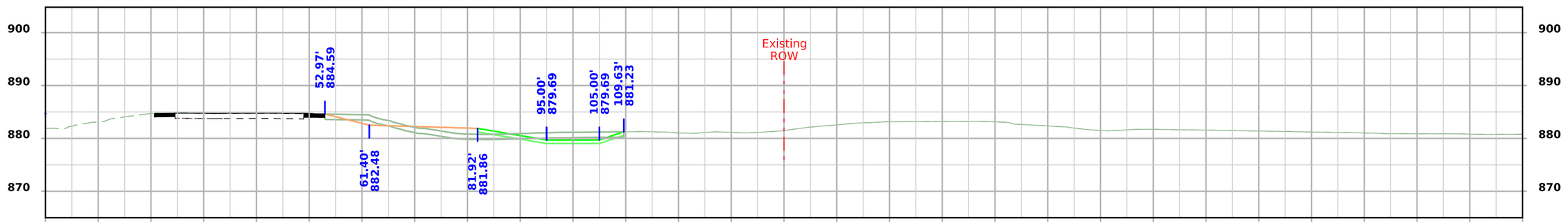
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.12	

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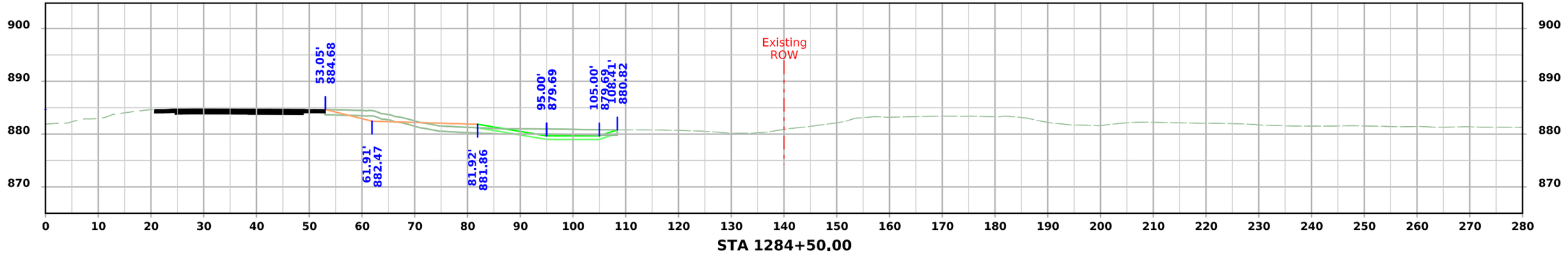
EB US HWY 30



STA 1285+50.00



STA 1285+00.00

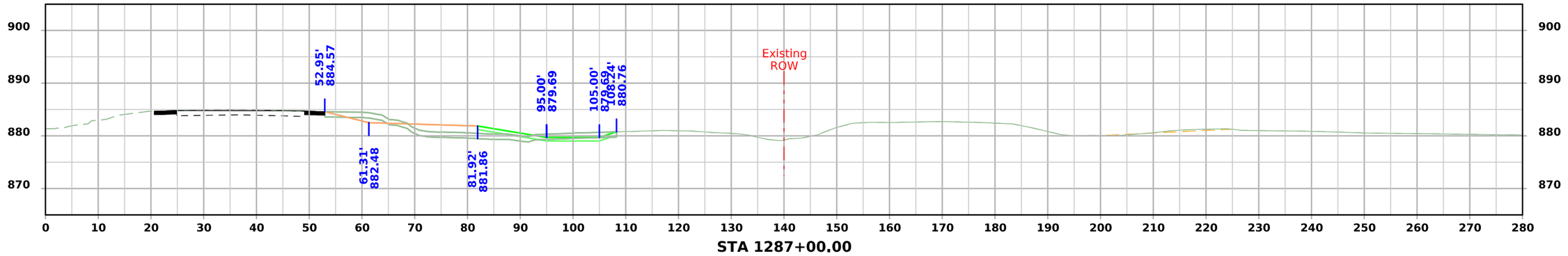


STA 1284+50.00

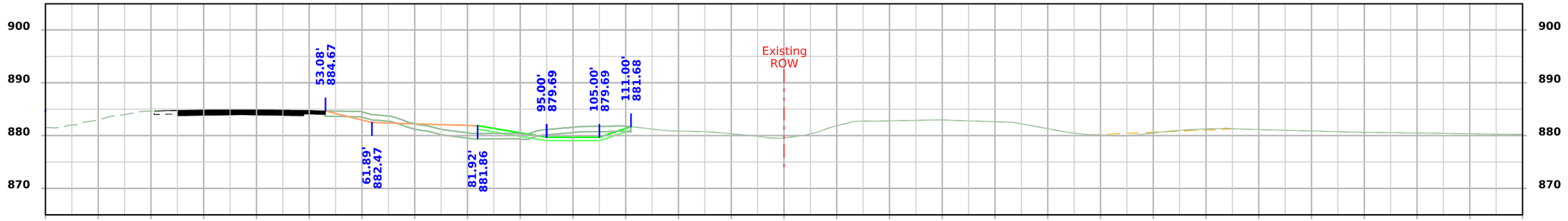
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.13	

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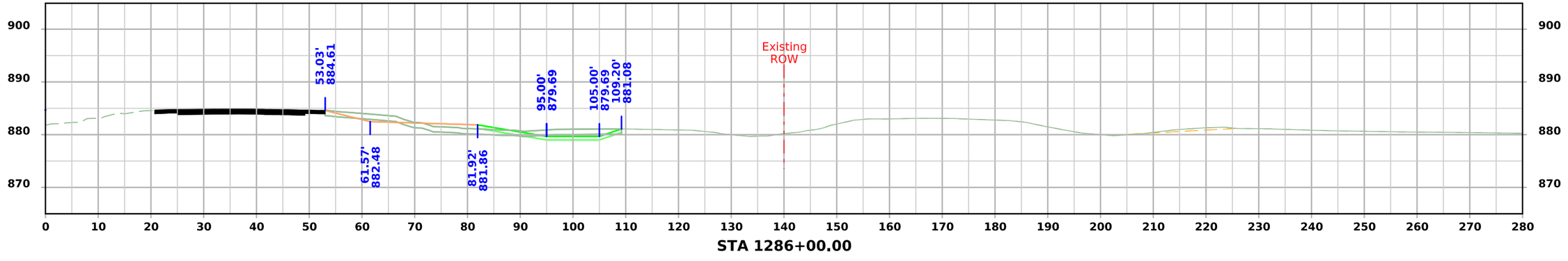
EB US HWY 30



STA 1287+00.00



STA 1286+50.00

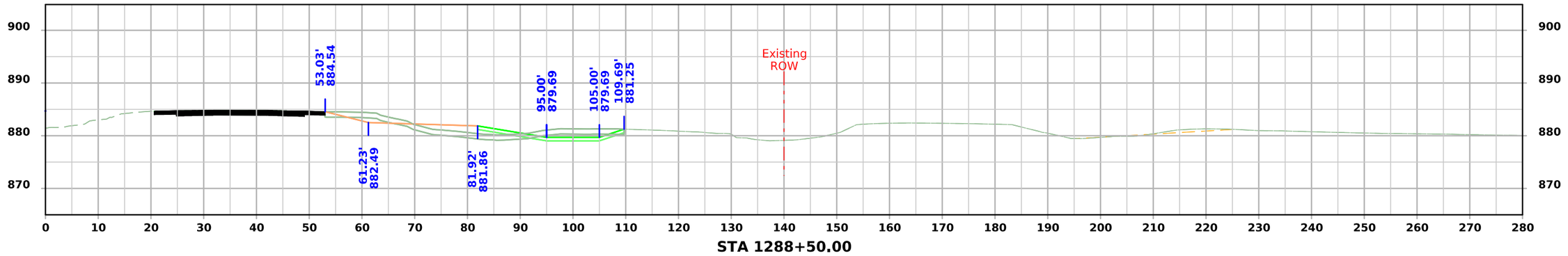


STA 1286+00.00

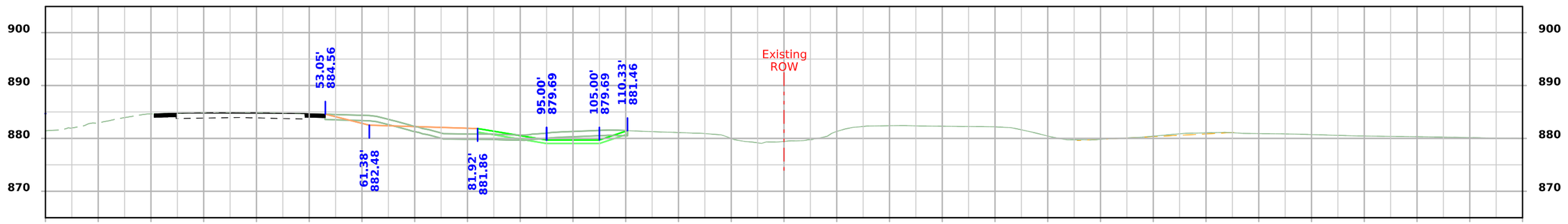
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.14	

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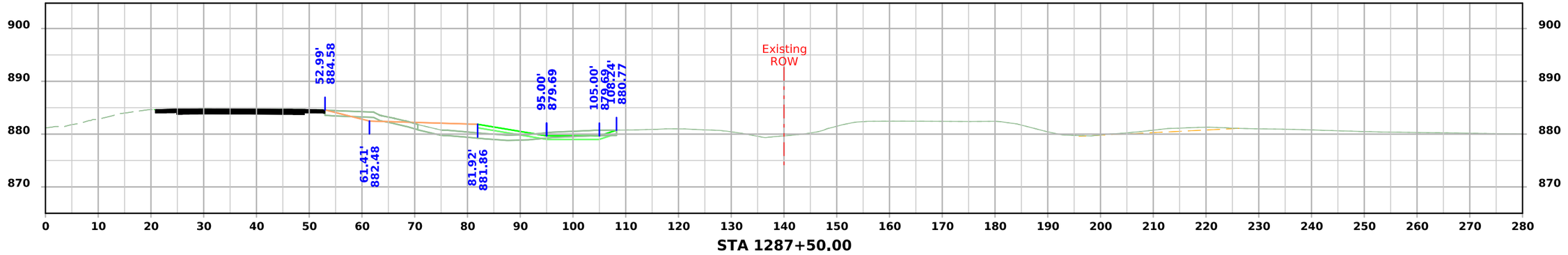
EB US HWY 30



STA 1288+50.00



STA 1288+00.00

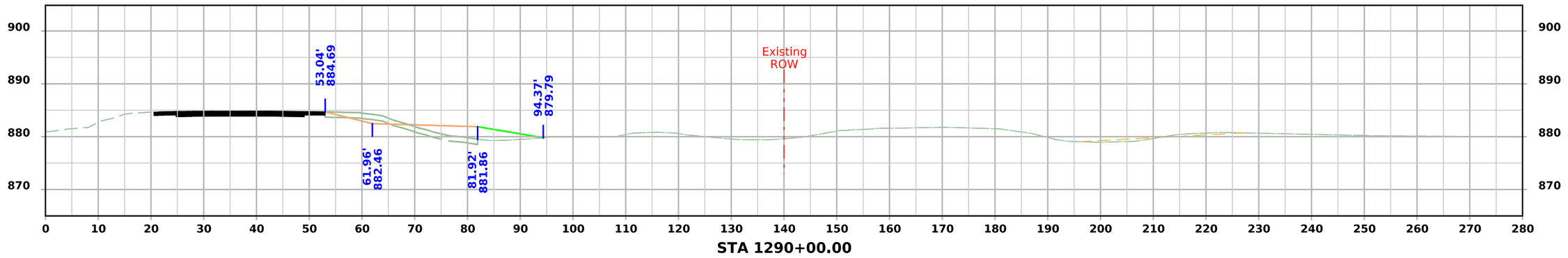


STA 1287+50.00

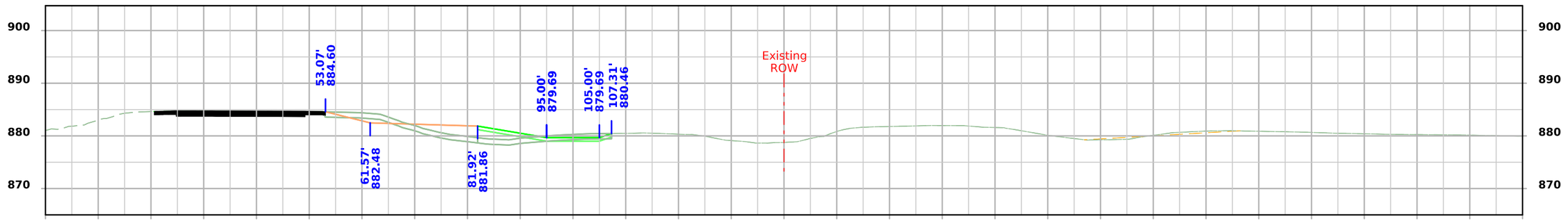
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.15	

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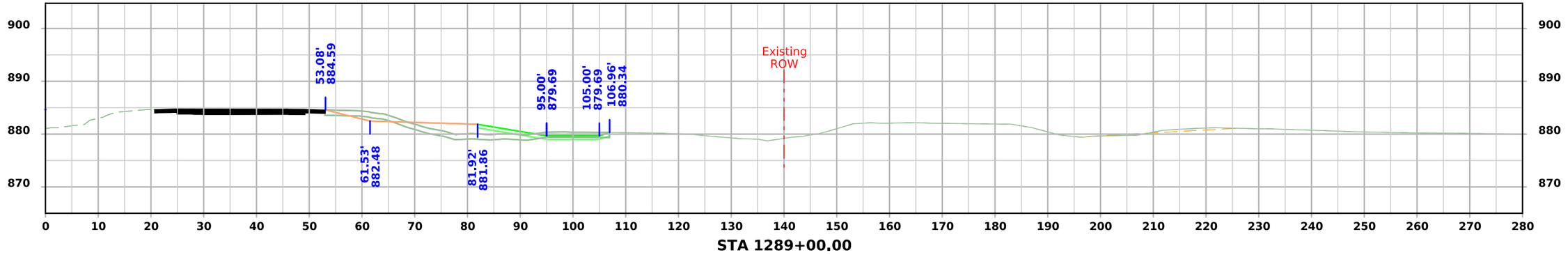
EB US HWY 30



STA 1290+00.00



STA 1289+50.00

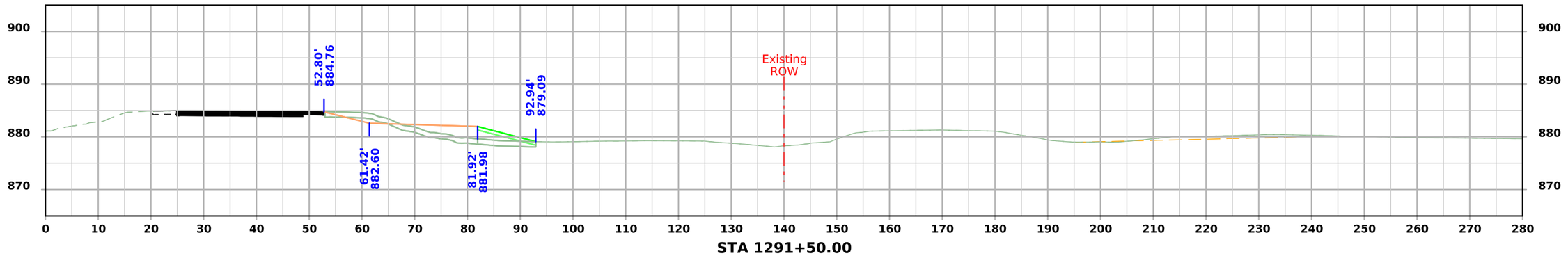


STA 1289+00.00

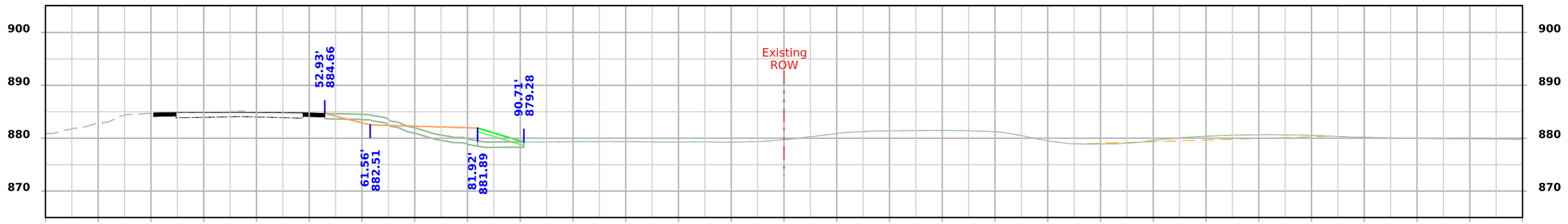
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.16	

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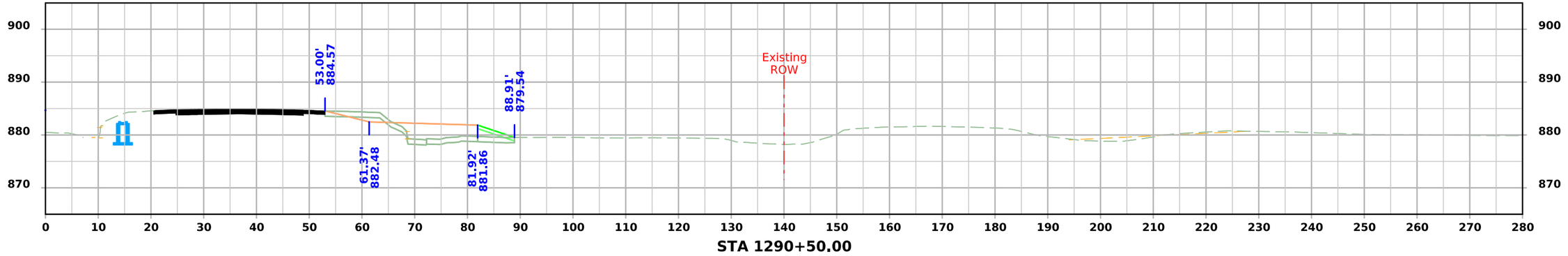
EB US HWY 30



STA 1291+50.00



STA 1291+00.00

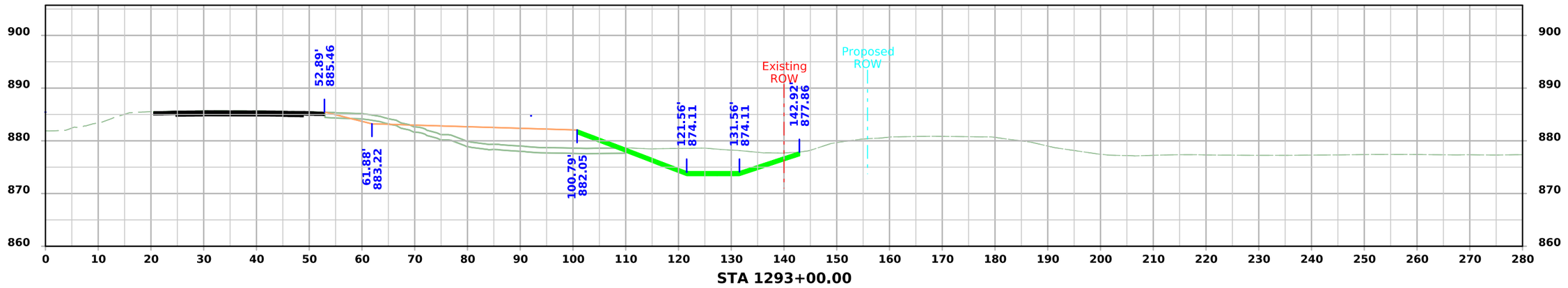


STA 1290+50.00

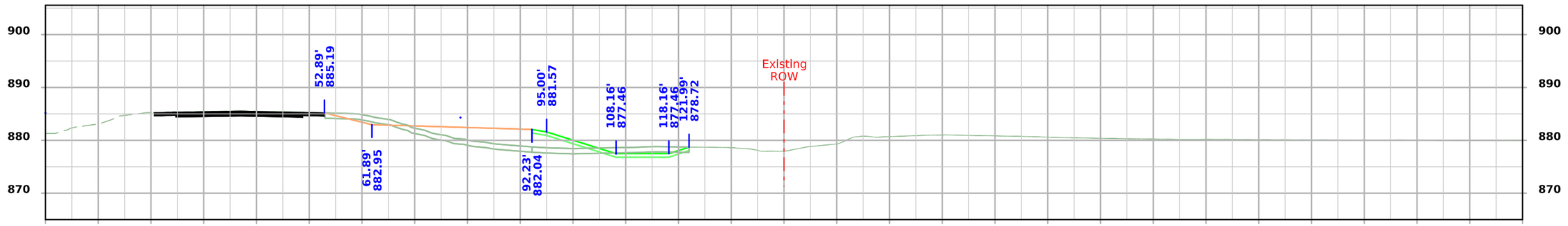
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.17	

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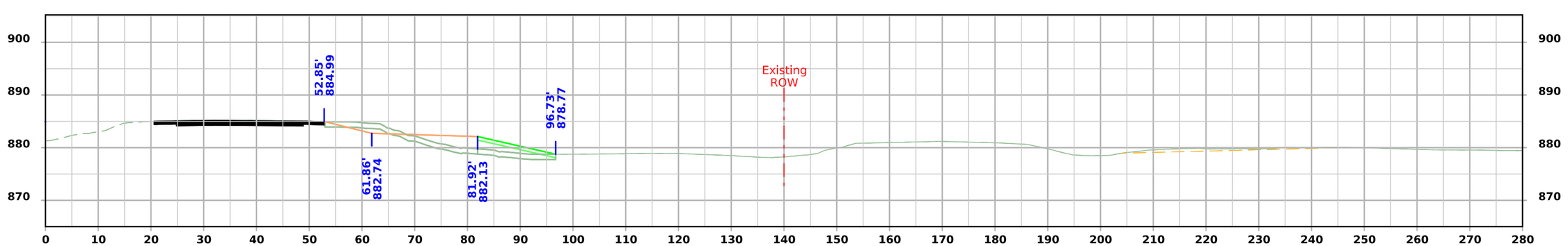
EB US HWY 30



STA 1293+00.00



STA 1292+50.00

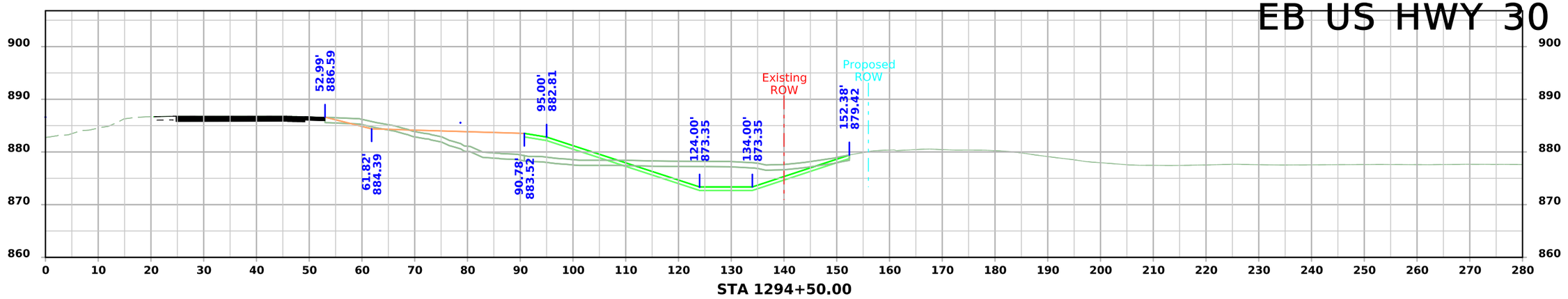


STA 1292+00.00

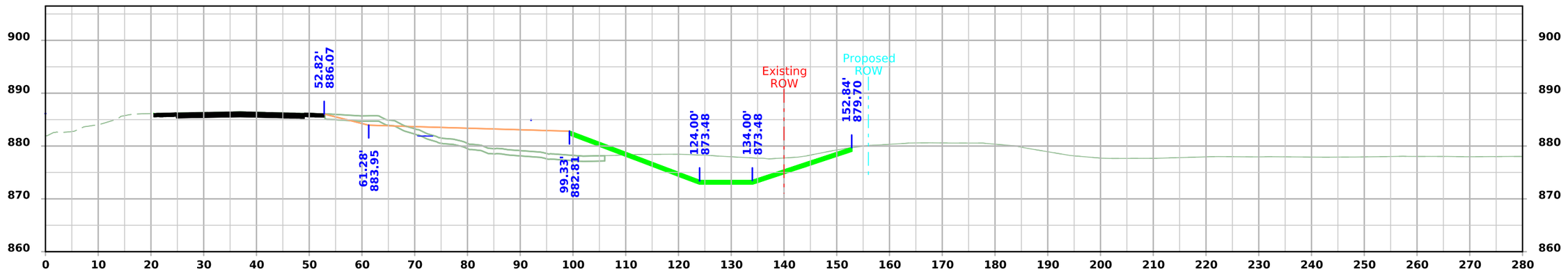
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.18	

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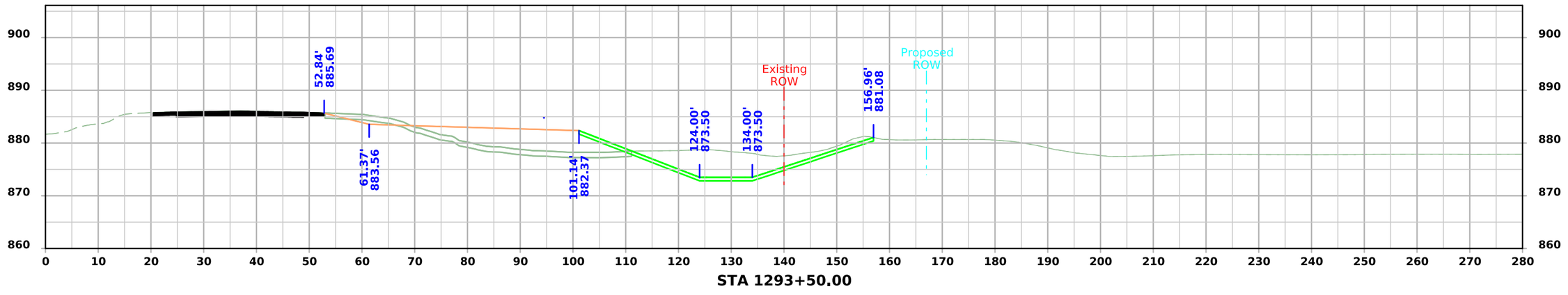
EB US HWY 30



STA 1294+50.00



STA 1294+00.00

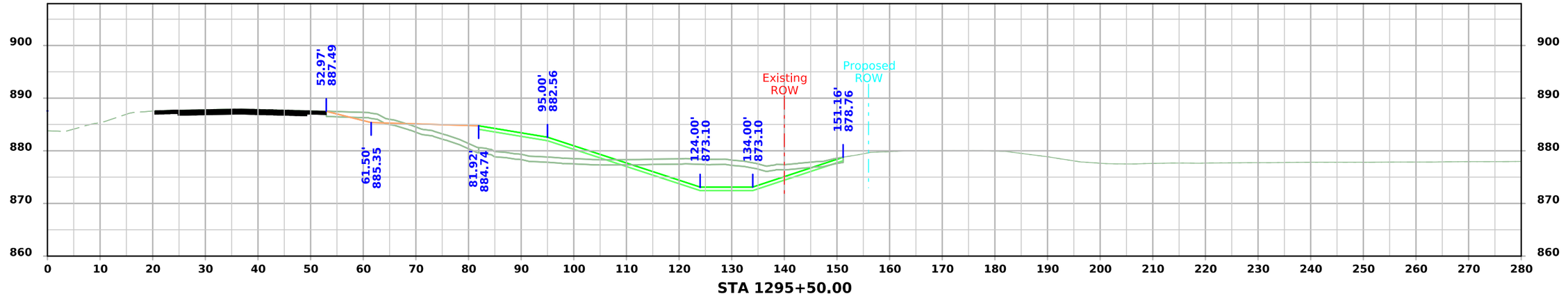


STA 1293+50.00

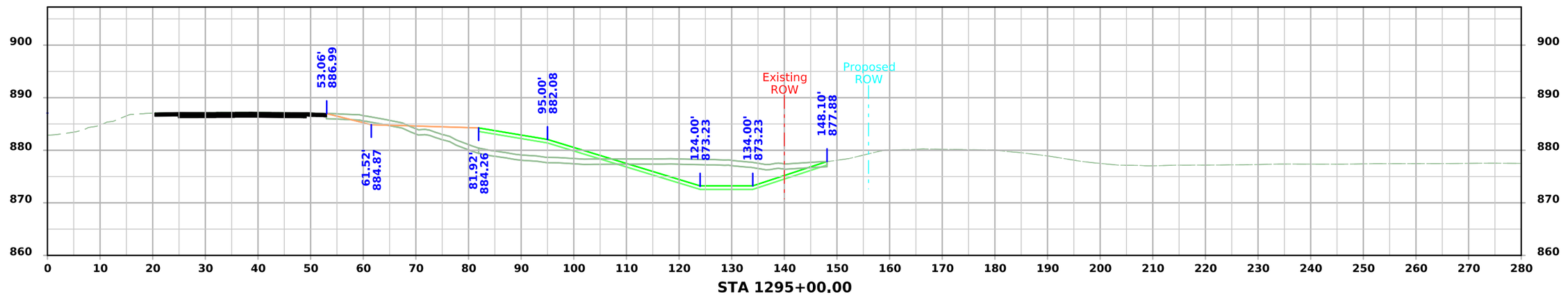
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.19	

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EB US HWY 30



STA 1295+50.00

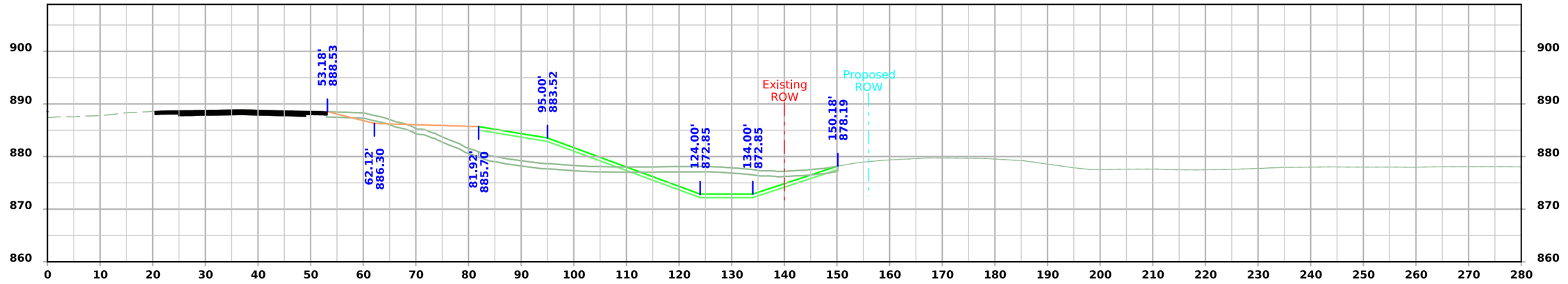


STA 1295+00.00

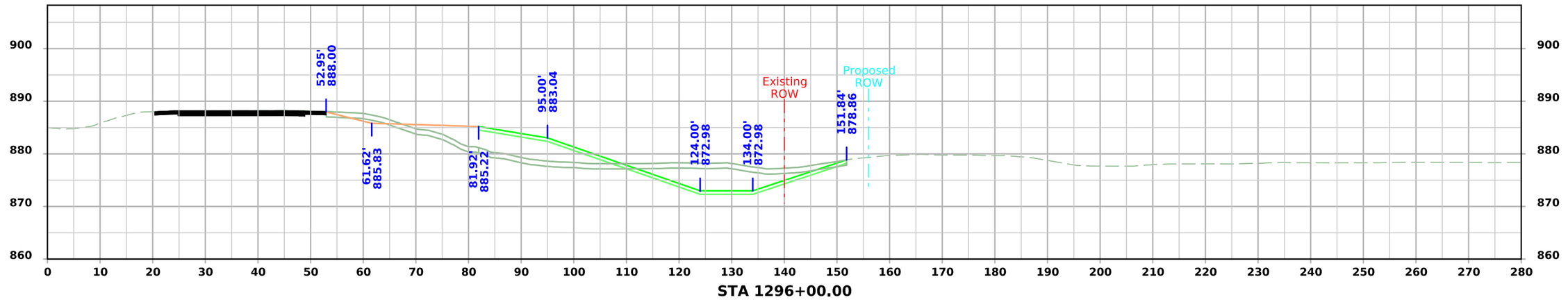
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.20

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EB US HWY 30



STA 1296+50.00

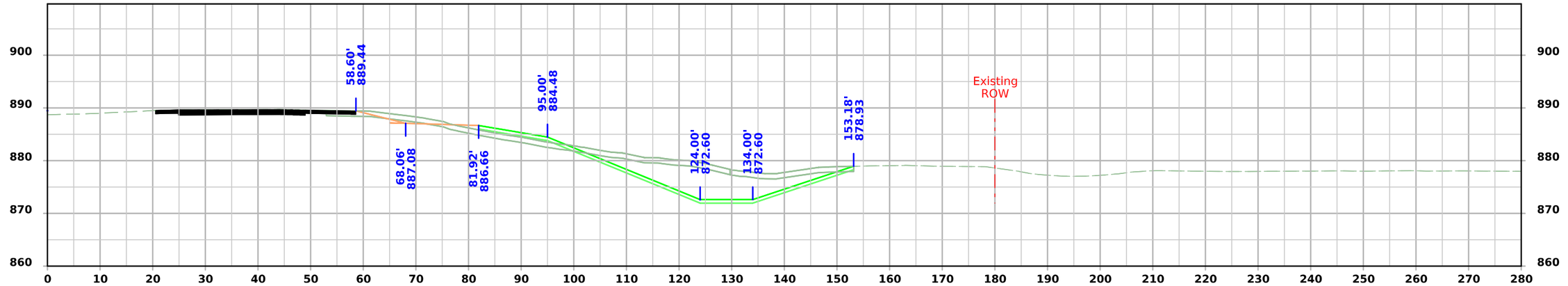


STA 1296+00.00

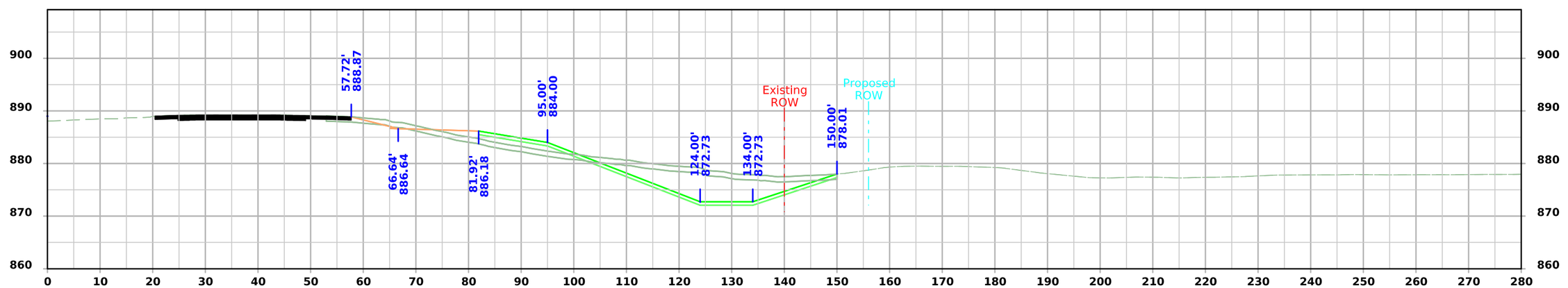
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.21

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EB US HWY 30



STA 1297+50.00

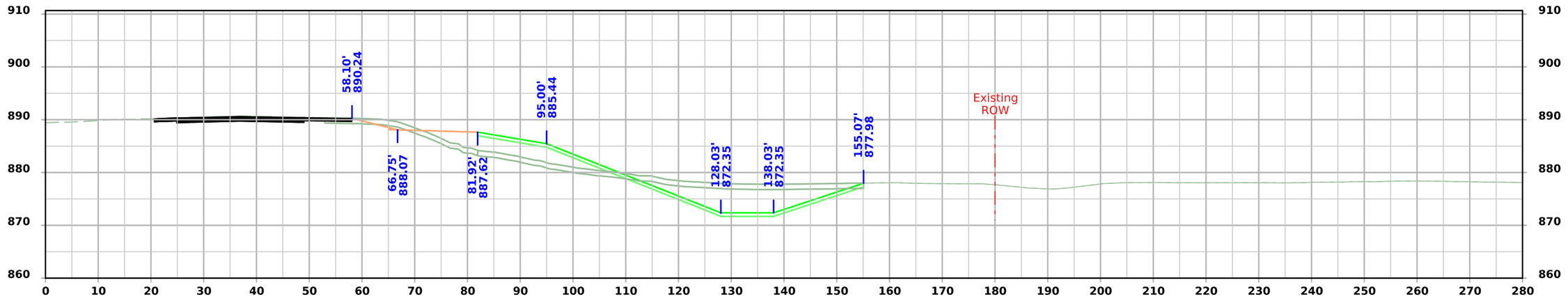


STA 1297+00.00

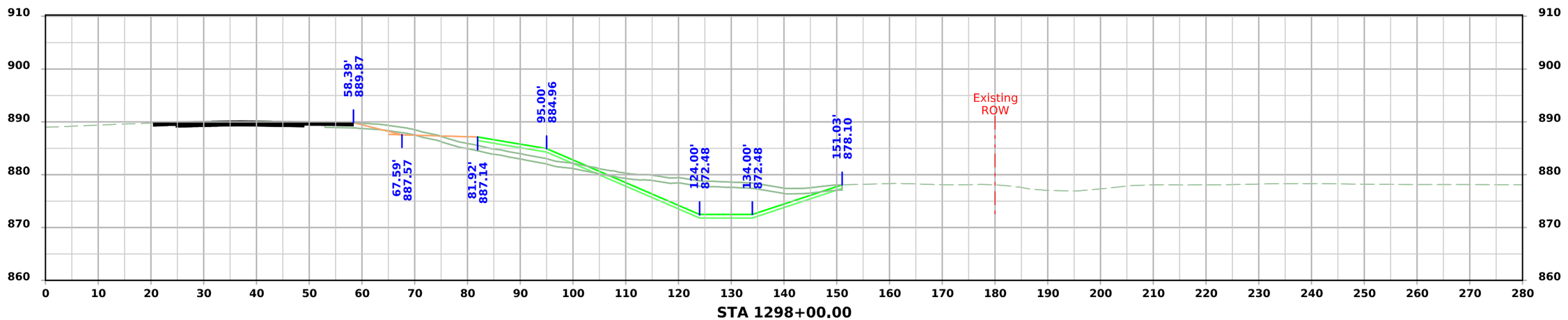
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.22	

08:48:36 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30EB_WHKS_85030271Z08.dgn

EB US HWY 30



STA 1298+50.00

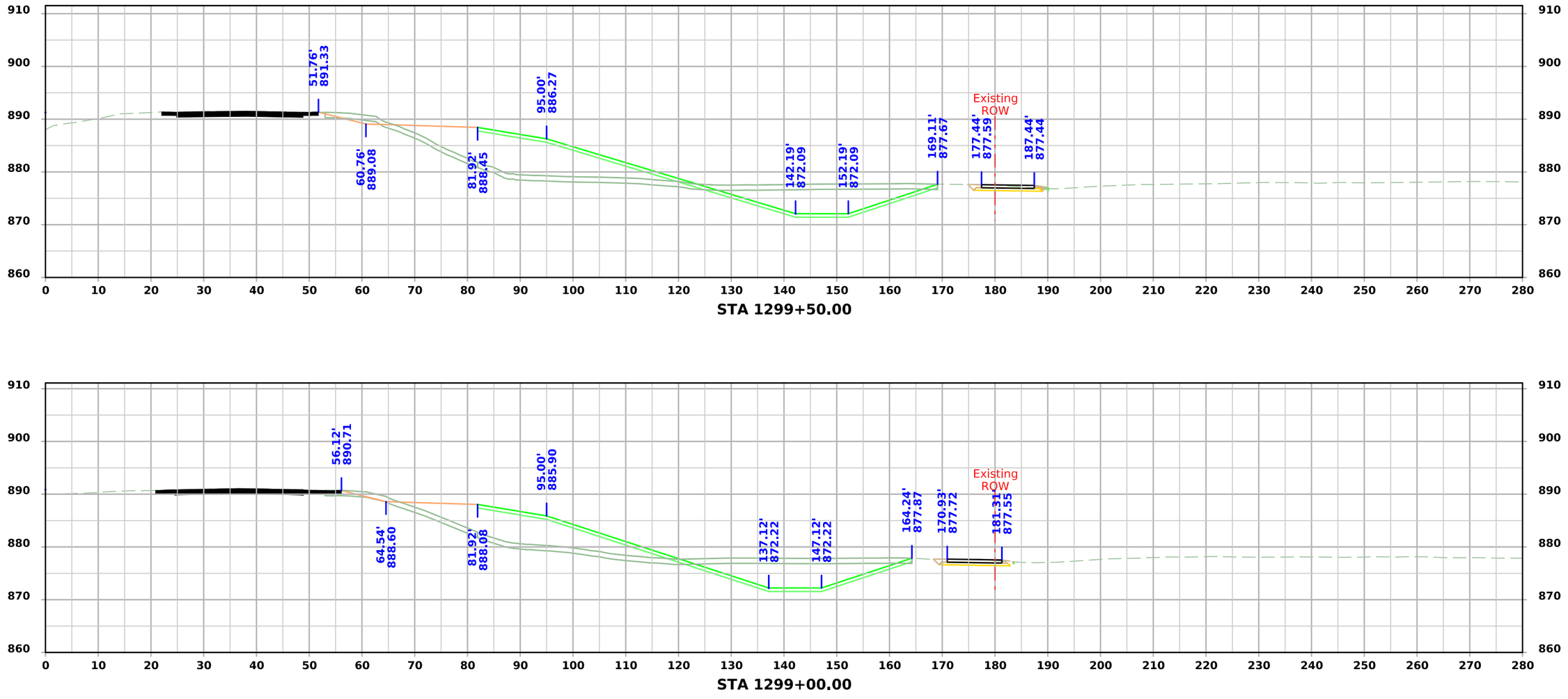


STA 1298+00.00

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.23

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EB US HWY 30



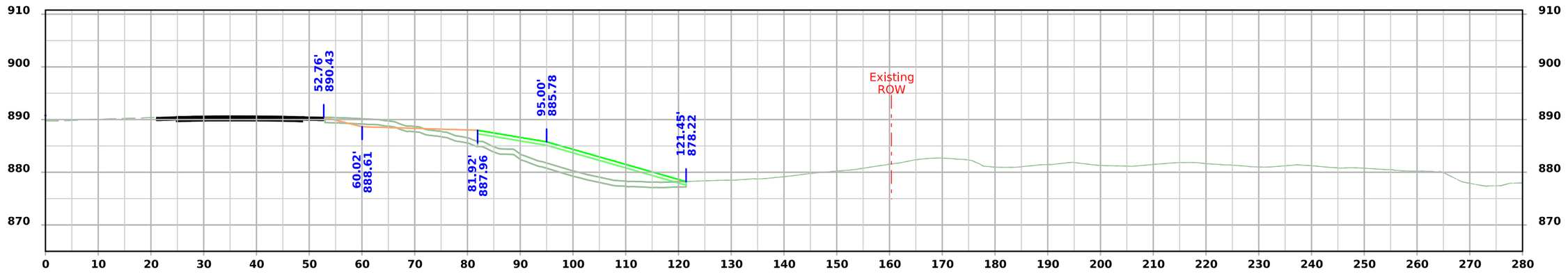
STA 1299+50.00

STA 1299+00.00

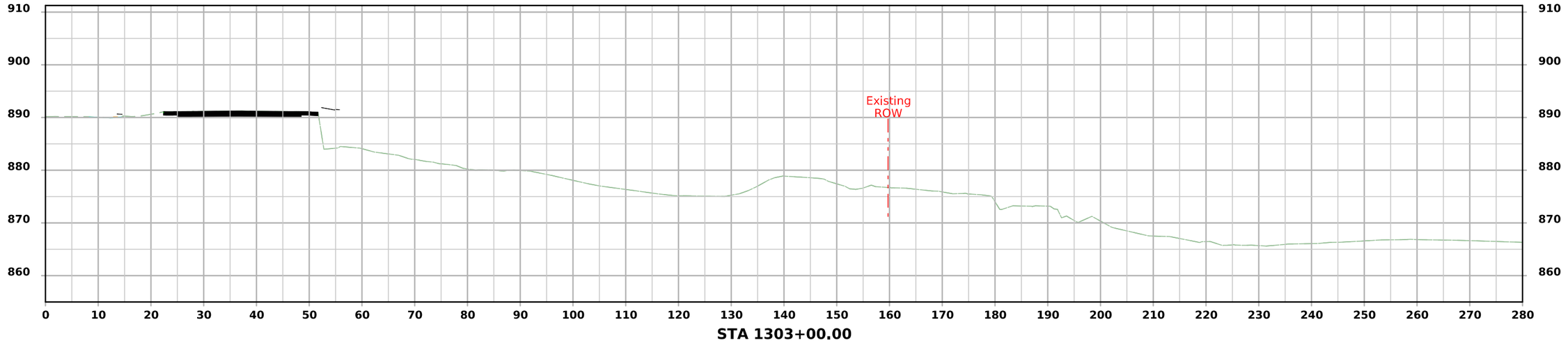
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.24

08:48:45 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30EB_WHKS_85030271Z08.dgn

EB US HWY 30



STA 1303+50.00

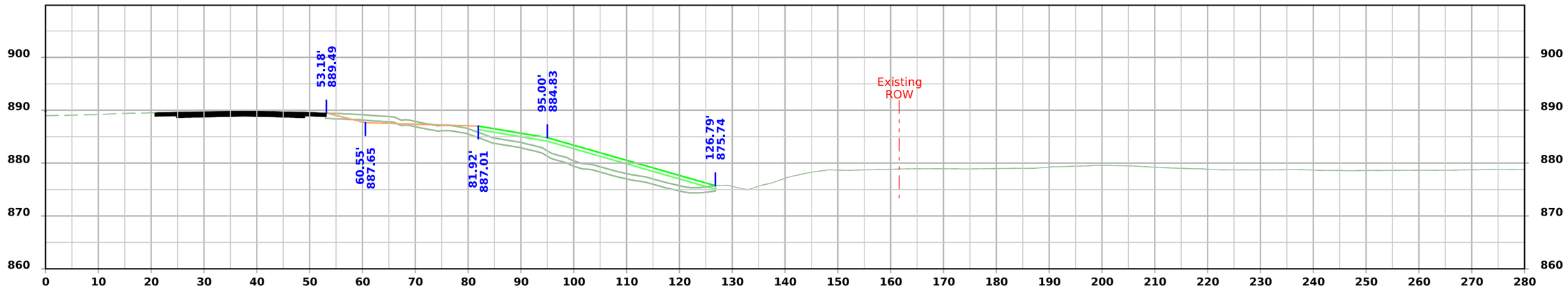


STA 1303+00.00

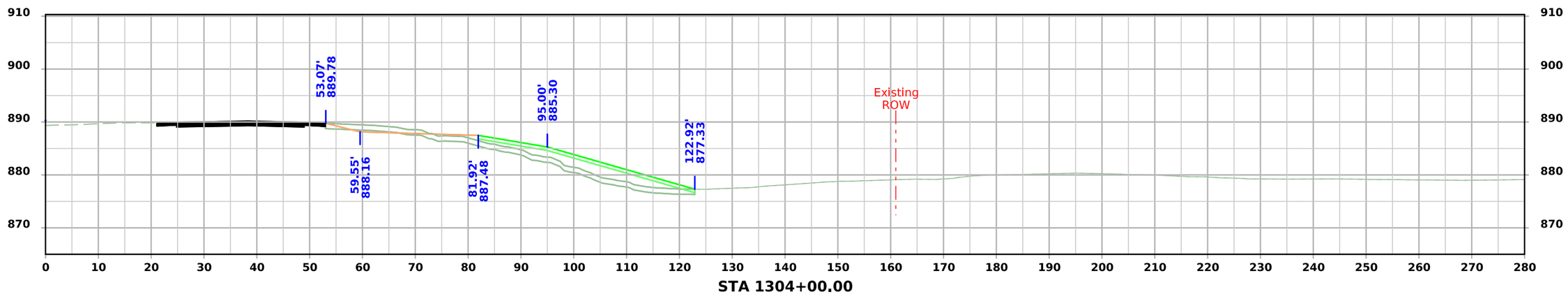
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.25	

08:48:48 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30EB_WHKS_85030271Z08.dgn

EB US HWY 30



STA 1304+50.00

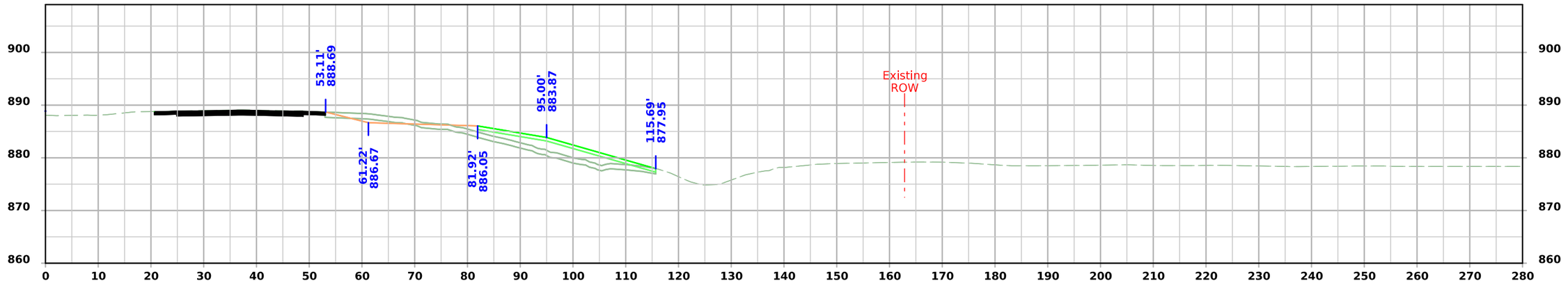


STA 1304+00.00

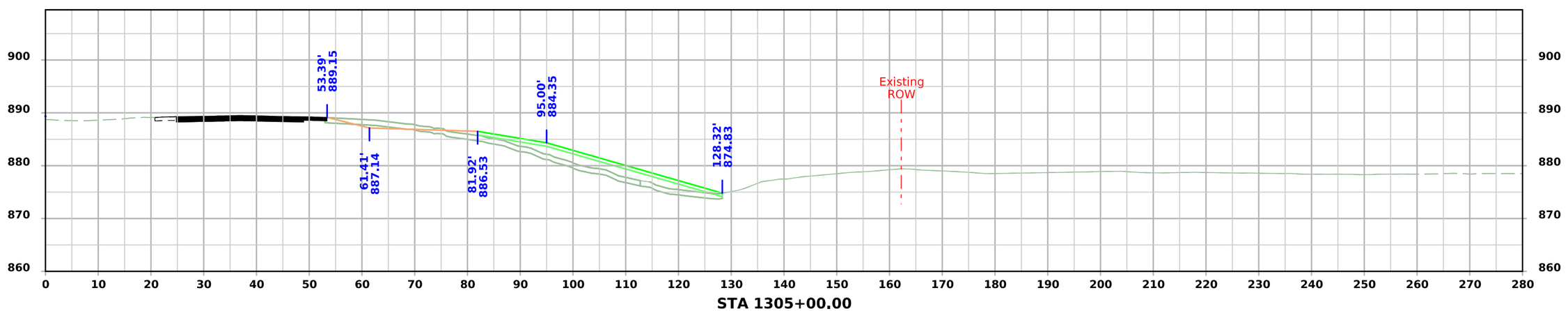
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08:48:51 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30EB_WHKS_85030271Z08.dgn

EB US HWY 30



STA 1305+50.00

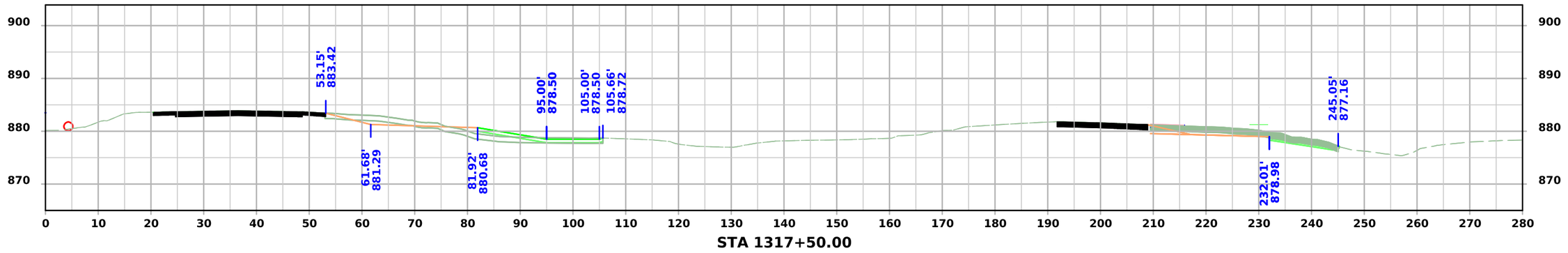


STA 1305+00.00

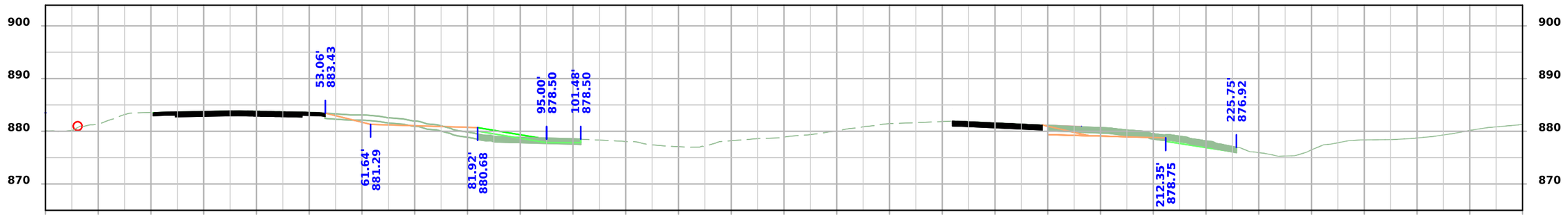
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.27

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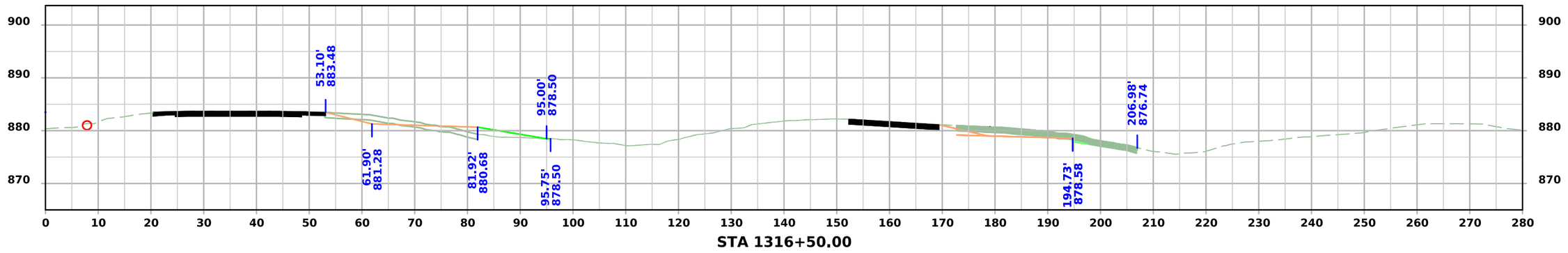
EB US HWY 30



STA 1317+50.00



STA 1317+00.00

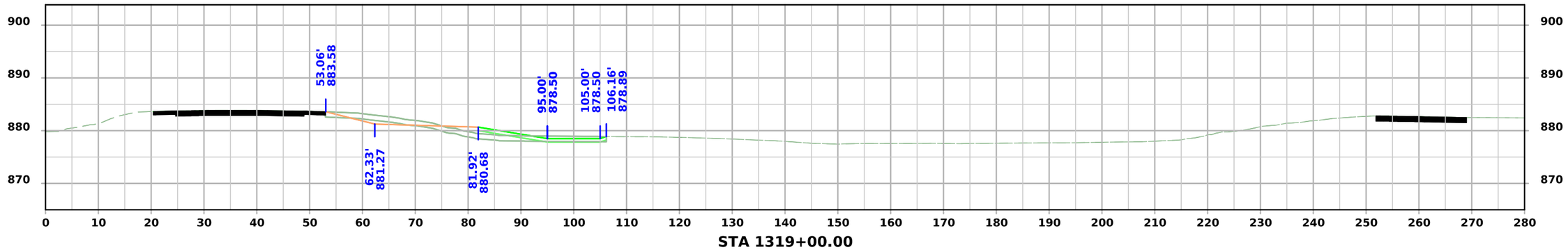


STA 1316+50.00

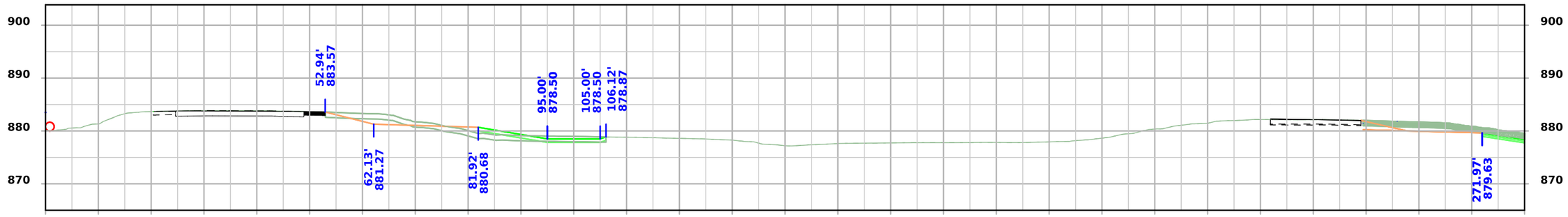
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.28

08:48:59 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30EB_WHKS_85030271Z08.dgn

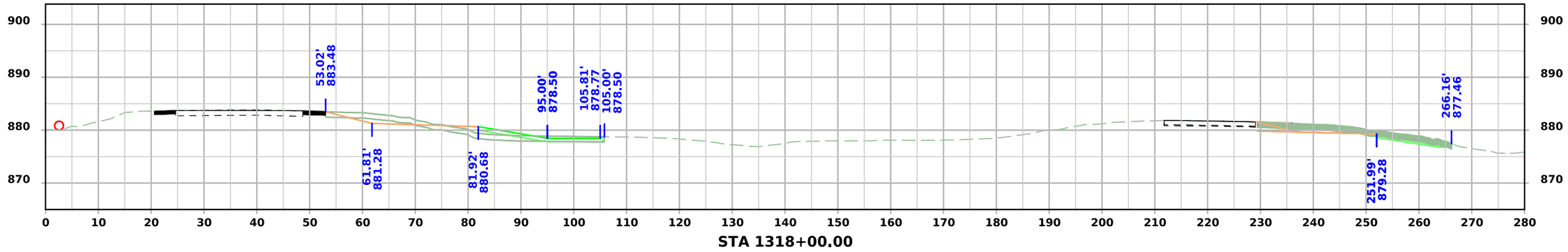
EB US HWY 30



STA 1319+00.00



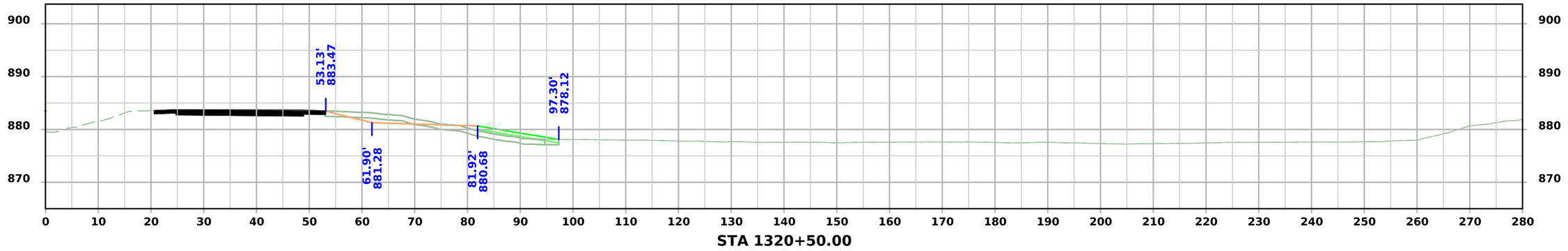
STA 1318+50.00



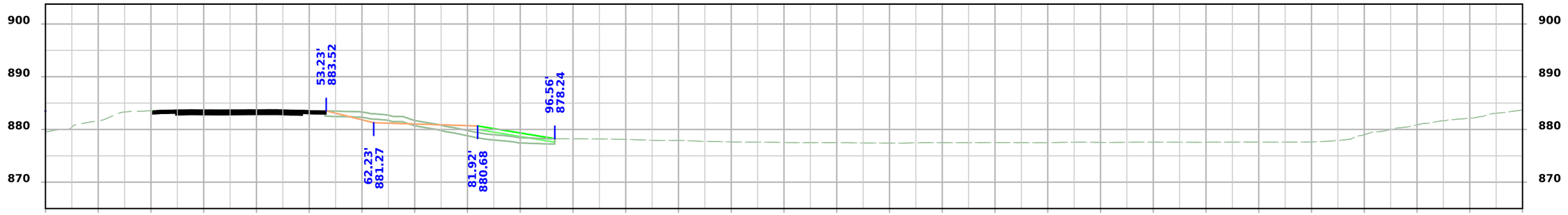
STA 1318+00.00

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.29

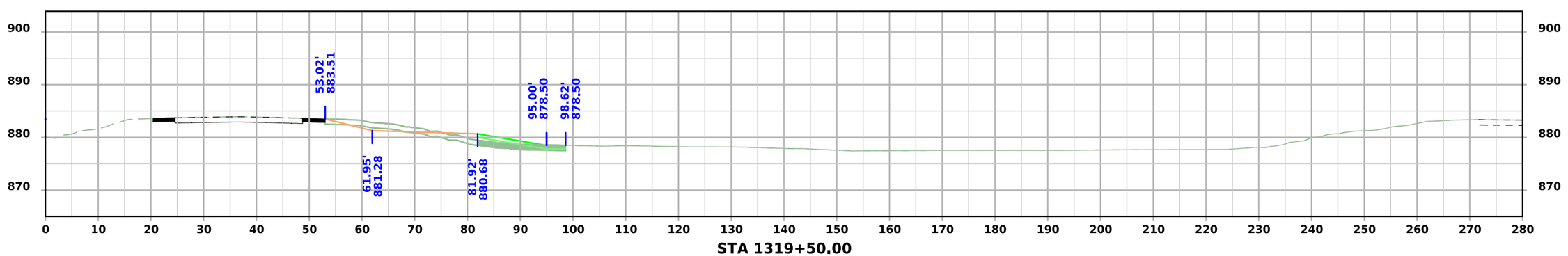
EB US HWY 30



STA 1320+50.00



STA 1320+00.00

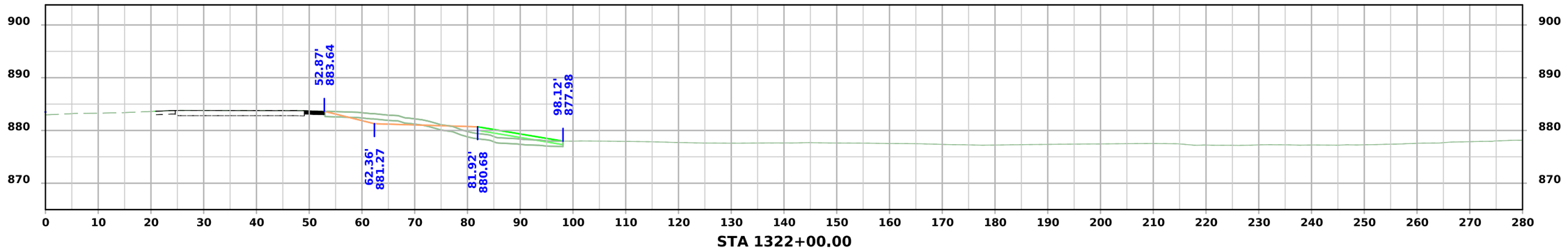


STA 1319+50.00

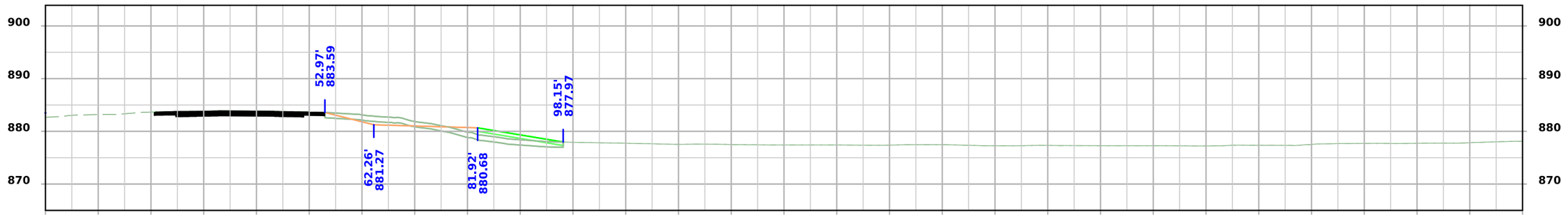
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.30	

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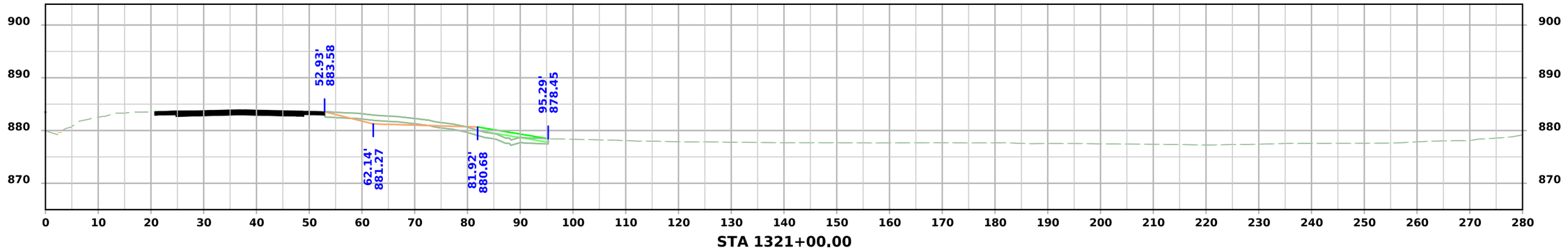
EB US HWY 30



STA 1322+00.00



STA 1321+50.00

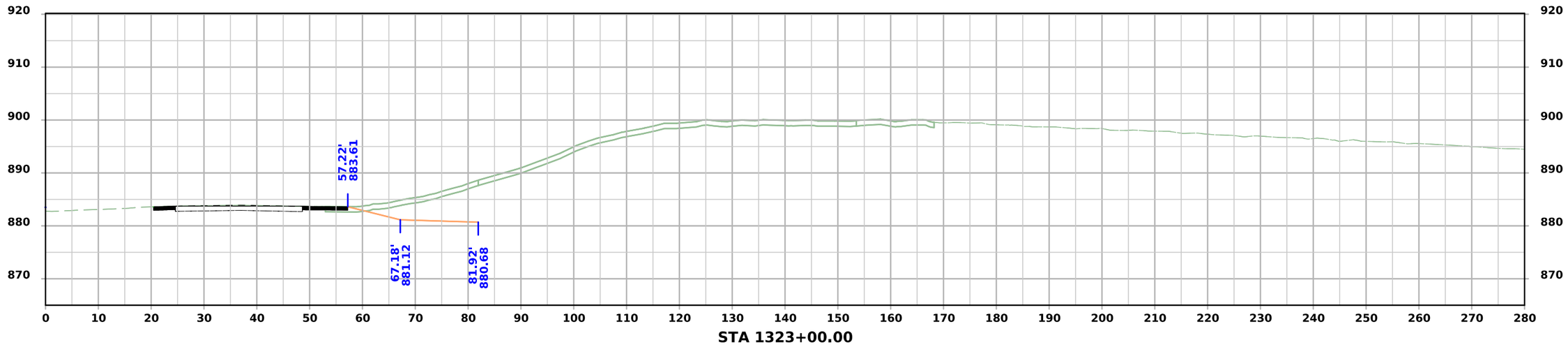


STA 1321+00.00

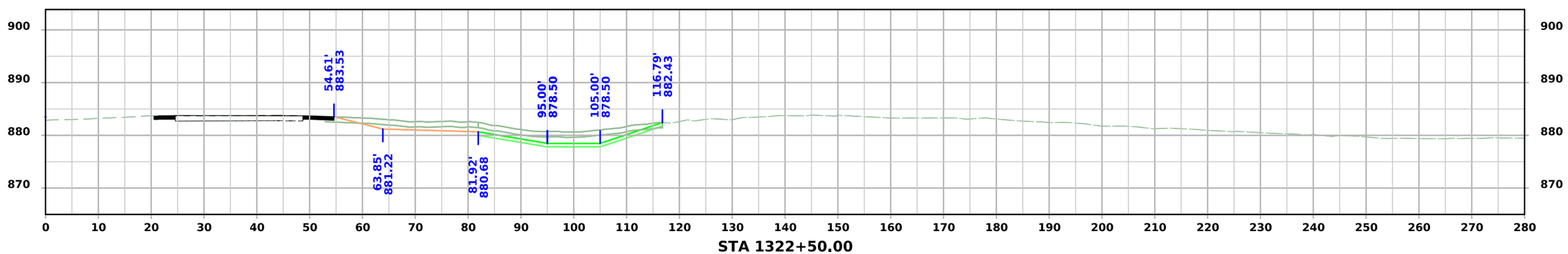
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08:49:13 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30EB_WHKS_8503027IZ08.dgn

EB US HWY 30



STA 1323+00.00

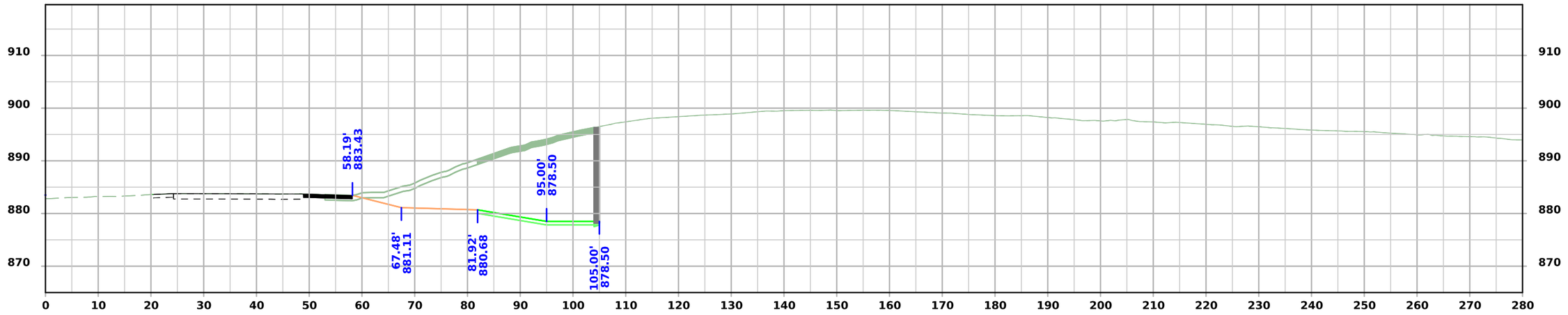


STA 1322+50.00

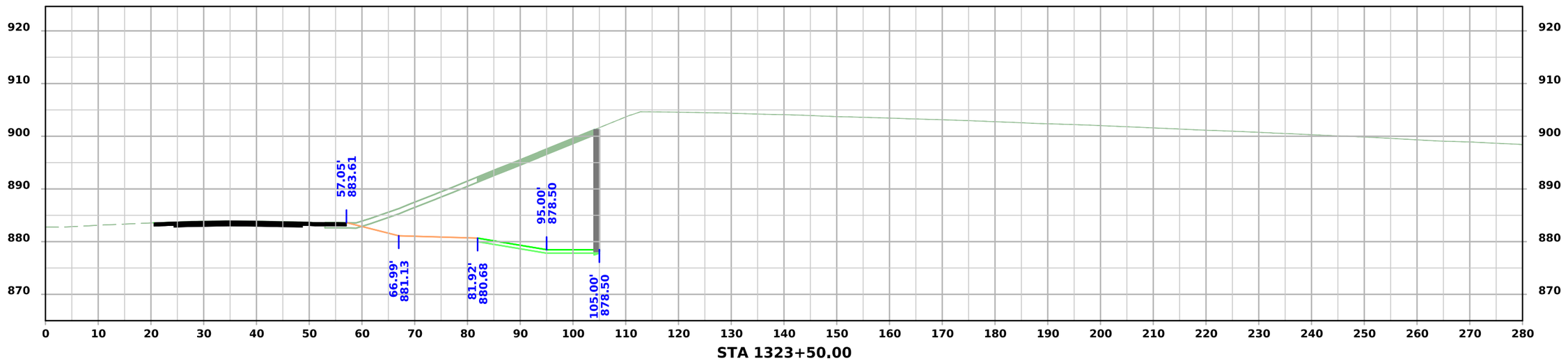
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EB US HWY 30



STA 1324+00.00

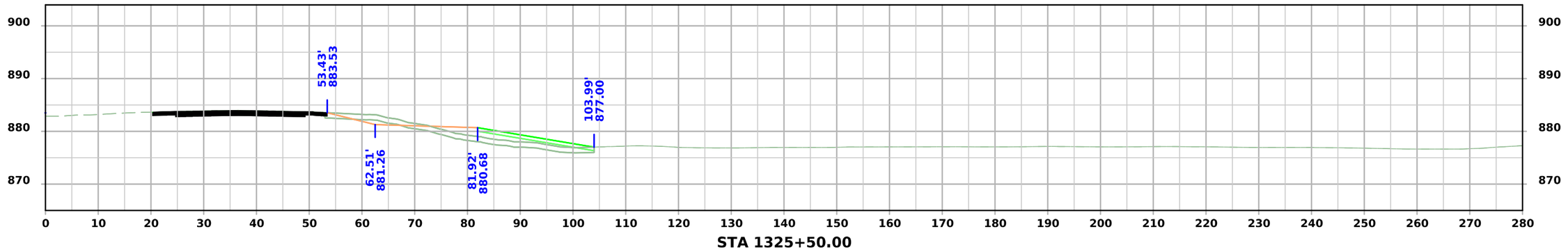


STA 1323+50.00

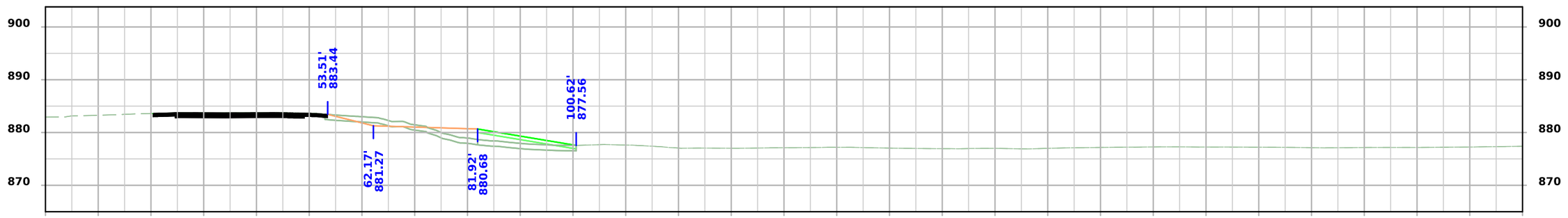
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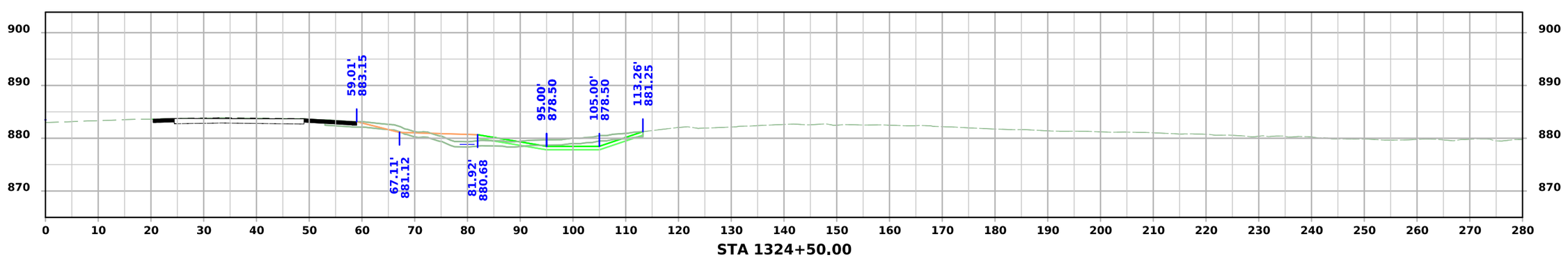
EB US HWY 30



STA 1325+50.00



STA 1325+00.00

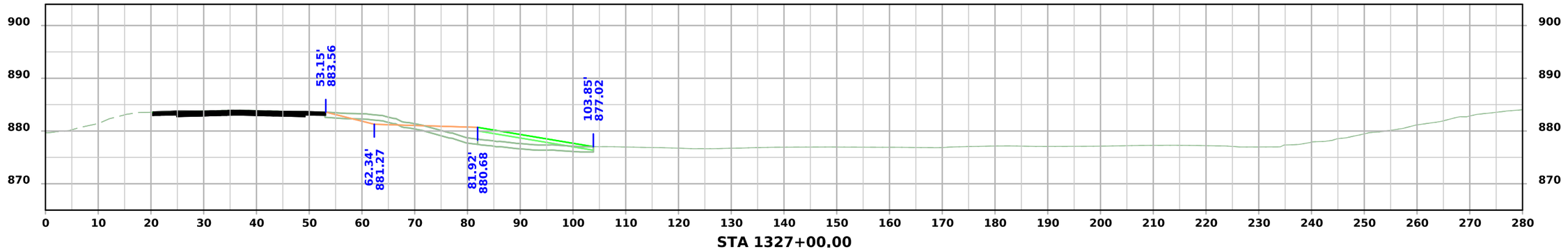


STA 1324+50.00

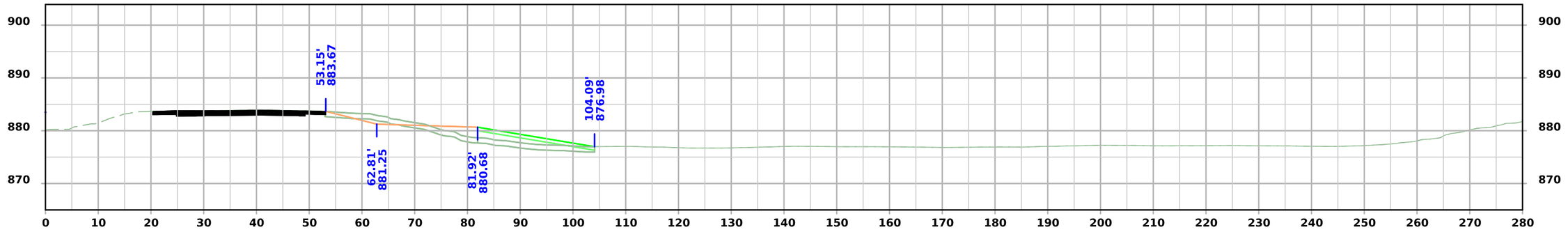
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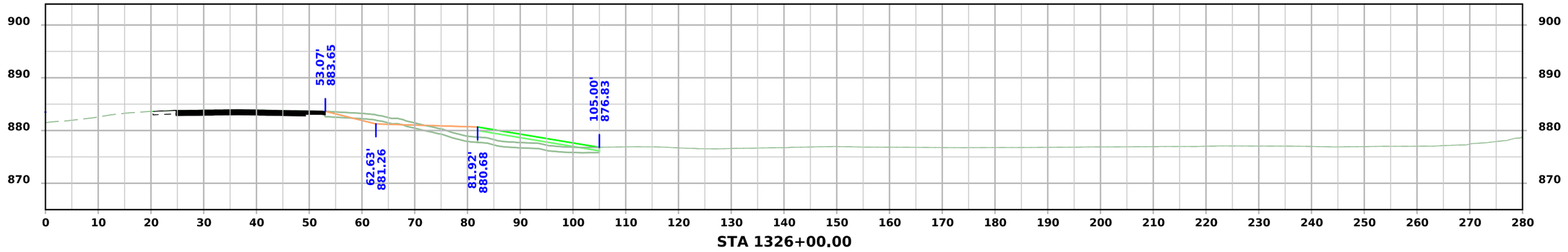
EB US HWY 30



STA 1327+00.00



STA 1326+50.00

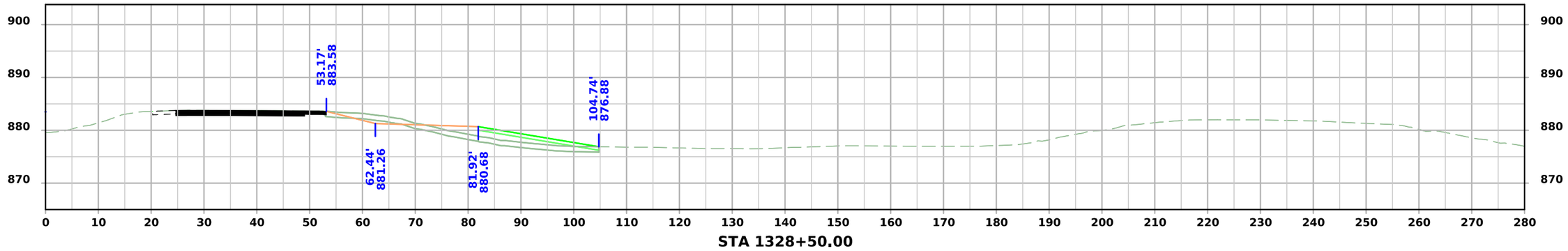


STA 1326+00.00

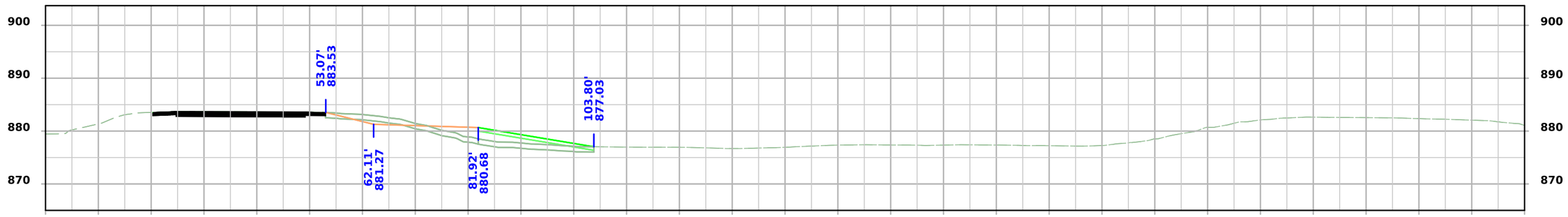
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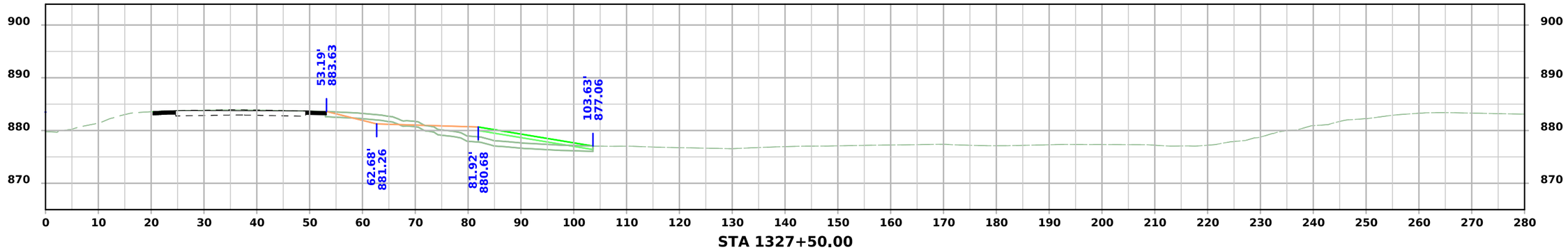
EB US HWY 30



STA 1328+50.00



STA 1328+00.00

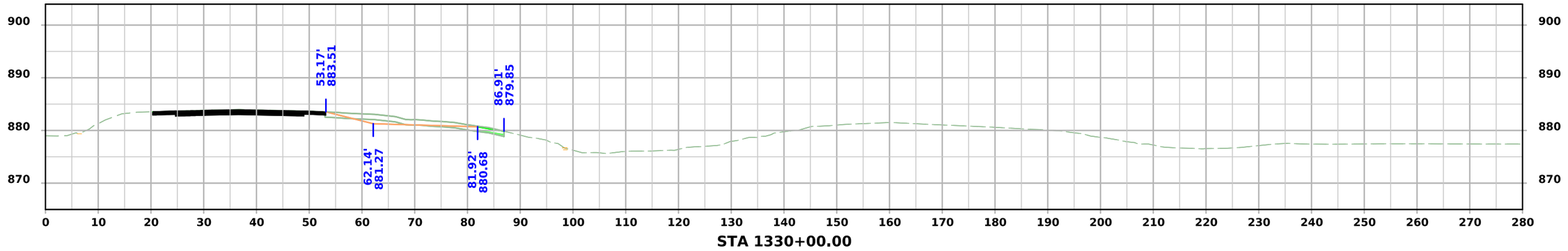


STA 1327+50.00

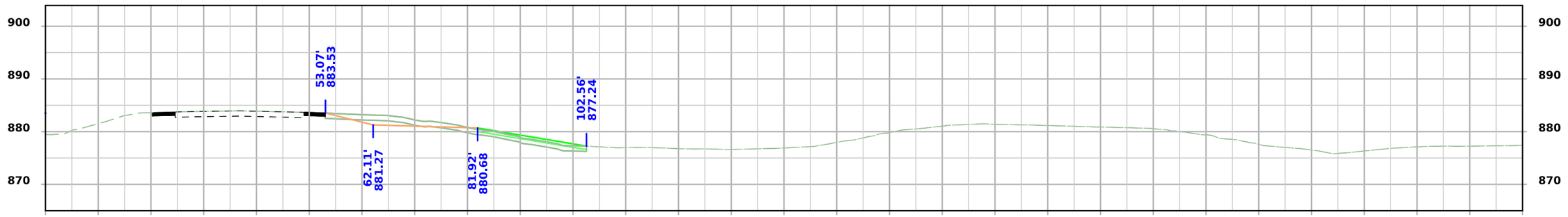
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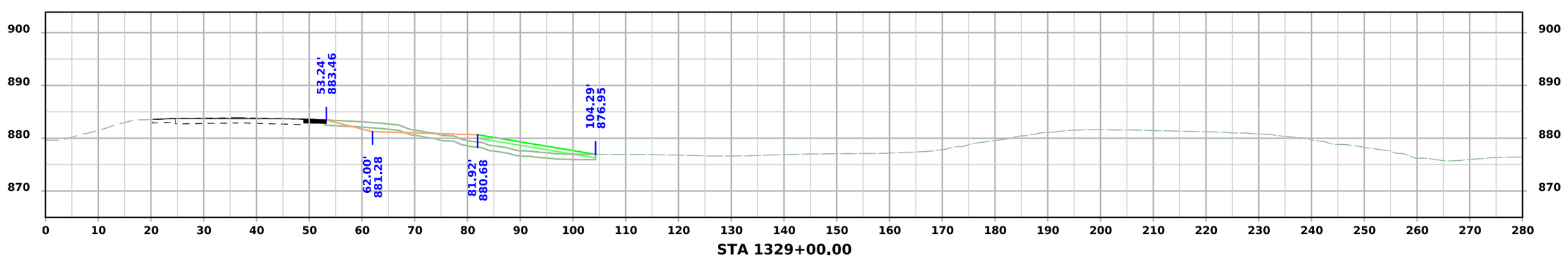
EB US HWY 30



STA 1330+00.00



STA 1329+50.00

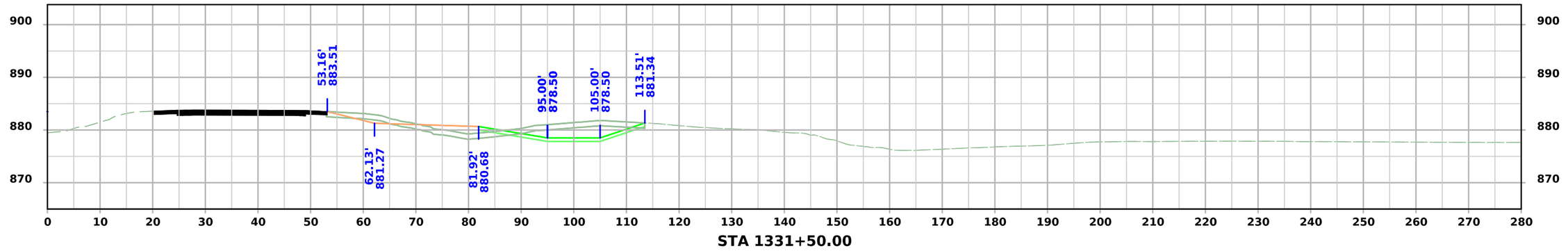


STA 1329+00.00

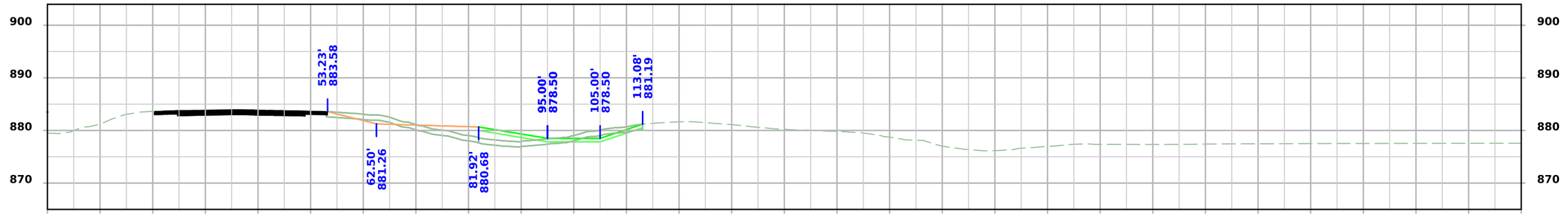
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.37	

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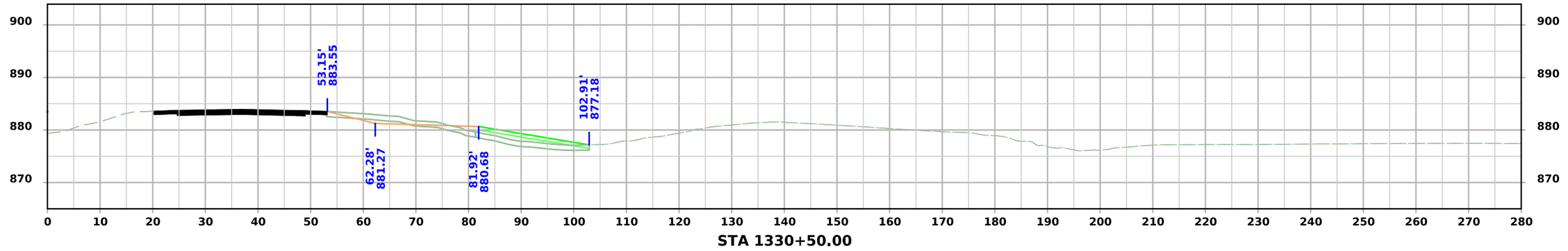
EB US HWY 30



STA 1331+50.00



STA 1331+00.00

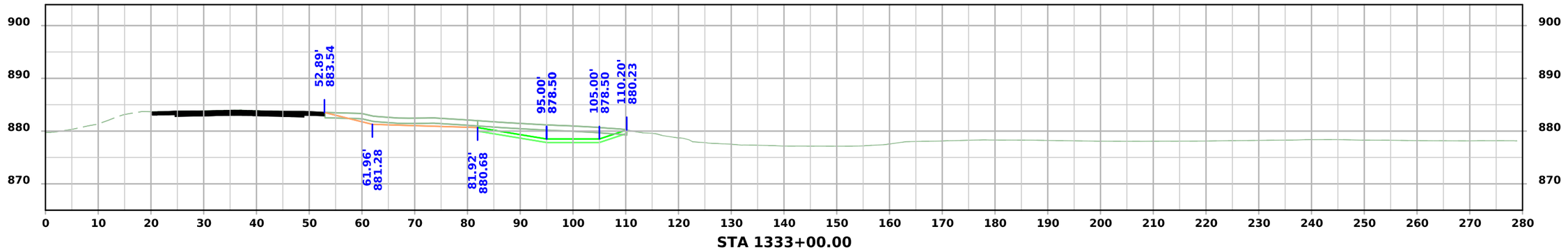


STA 1330+50.00

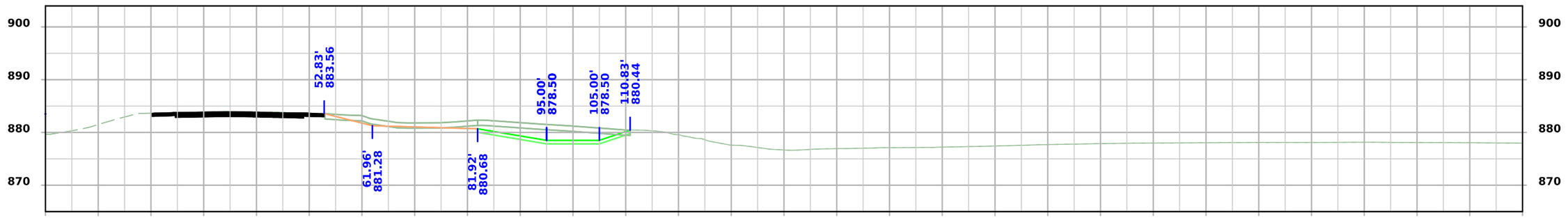
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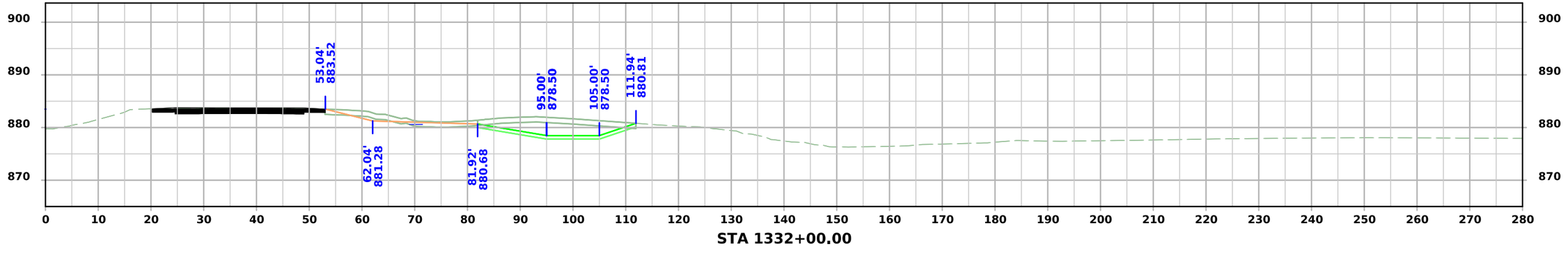
EB US HWY 30



STA 1333+00.00



STA 1332+50.00

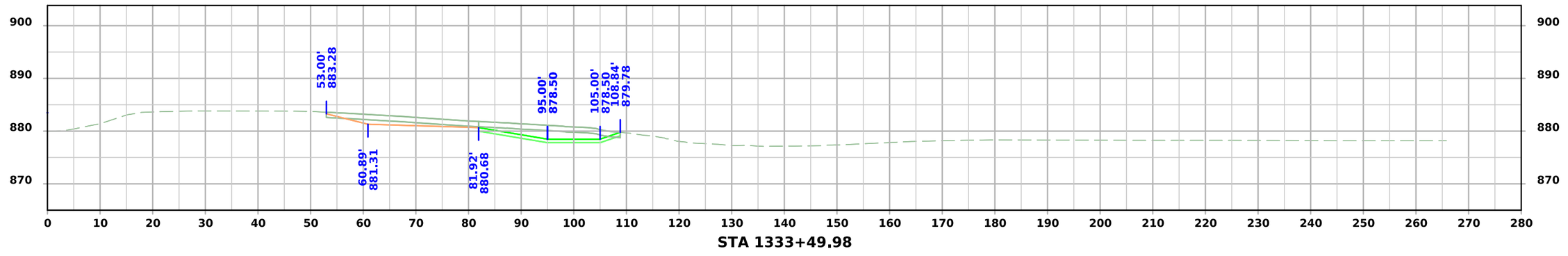


STA 1332+00.00

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.39

08:49:45 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30EB_WHKS_85030271Z08.dgn

EB US HWY 30

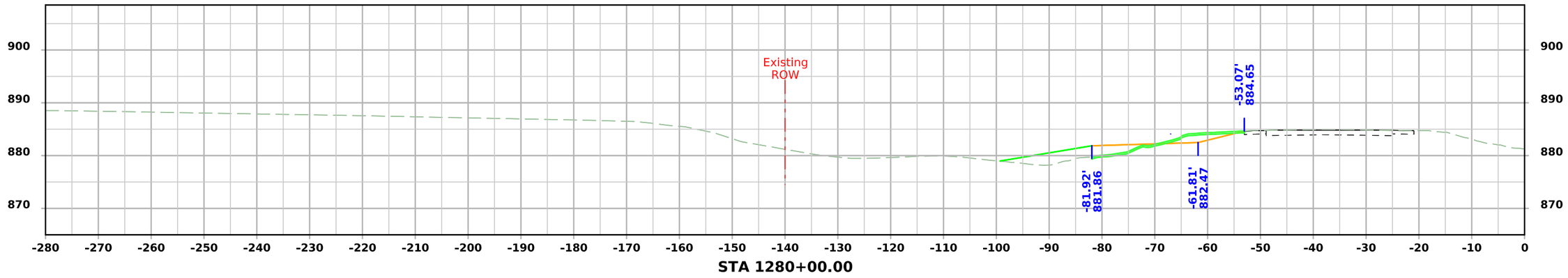


STA 1333+49.98

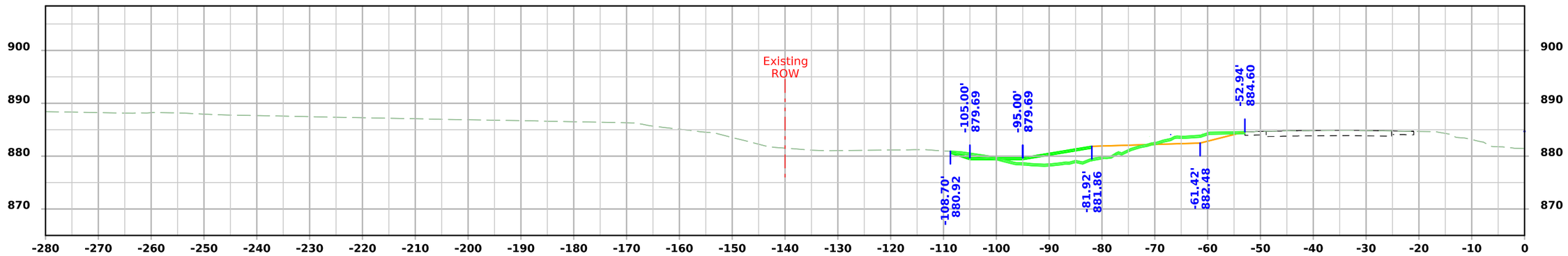
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.40

08:49:47 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30EB_WHKS_85030271Z08.dgn

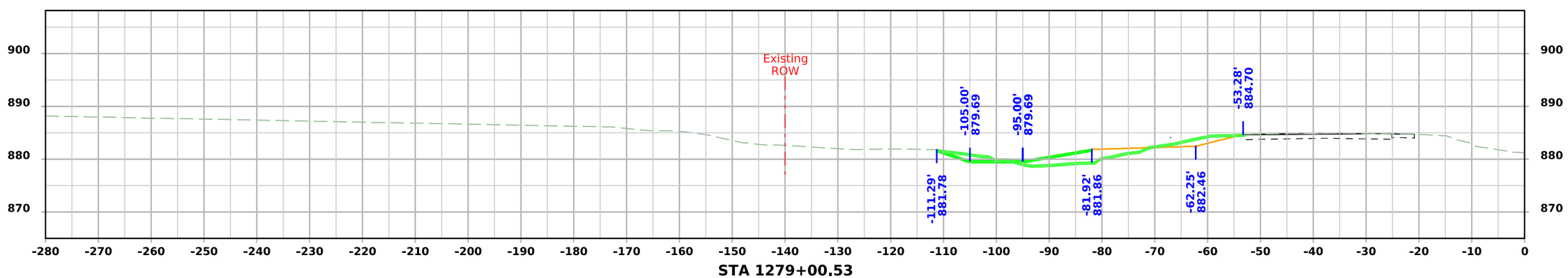
WB US HWY 30



STA 1280+00.00



STA 1279+50.00

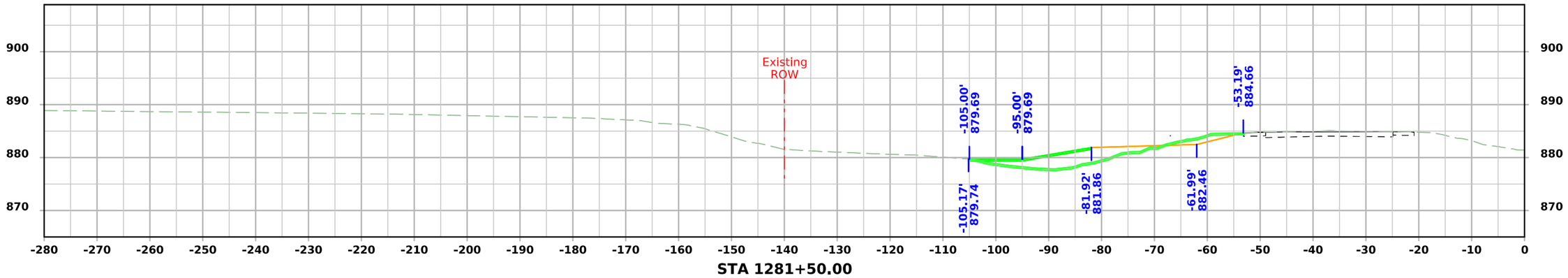


STA 1279+00.53

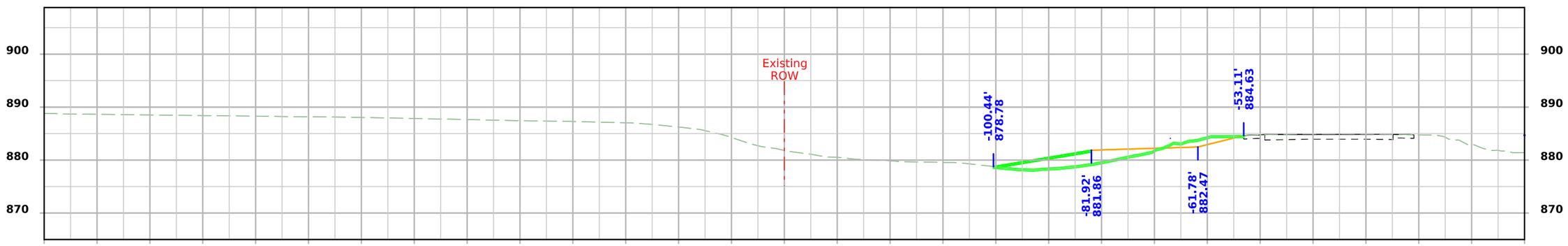
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.100

09:03:09 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30WB_WHKS_85030271Z08.dgn

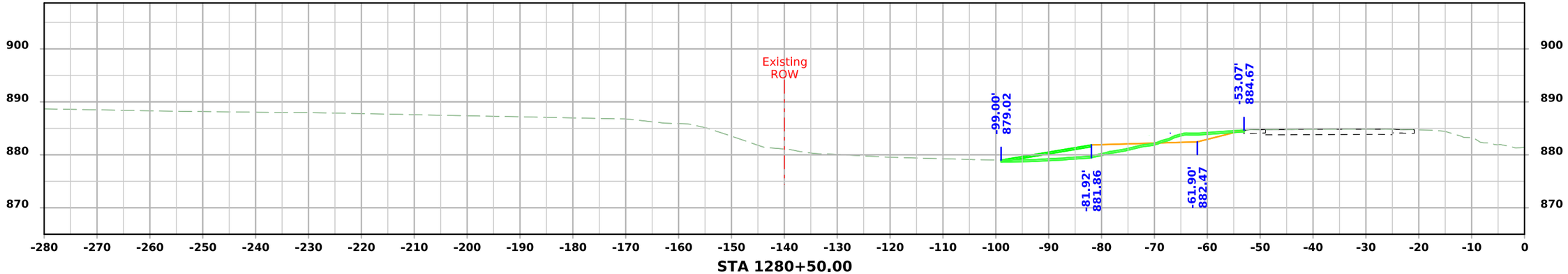
WB US HWY 30



STA 1281+50.00



STA 1281+00.00

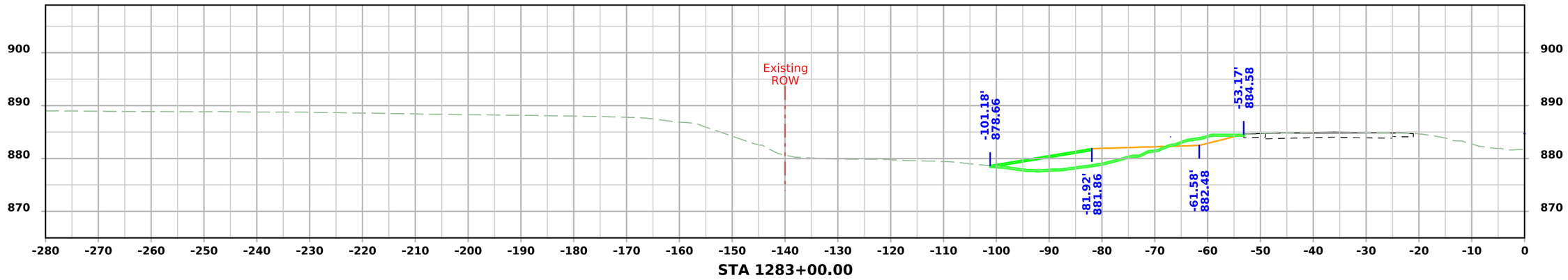


STA 1280+50.00

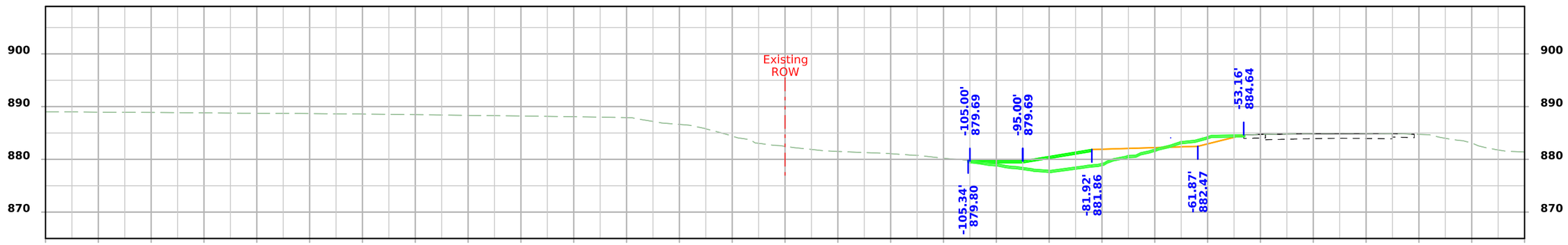
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.101

09:03:29 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30WB_WHKS_85030271Z08.dgn

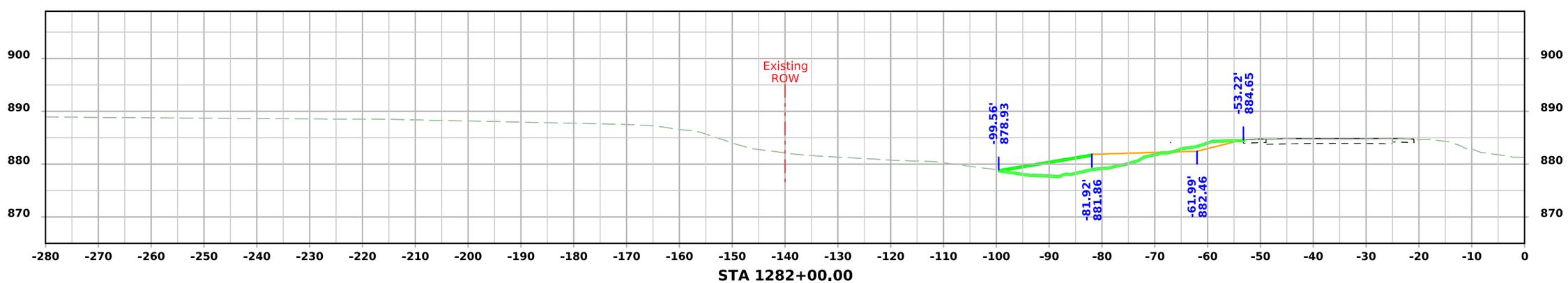
WB US HWY 30



STA 1283+00.00



STA 1282+50.00

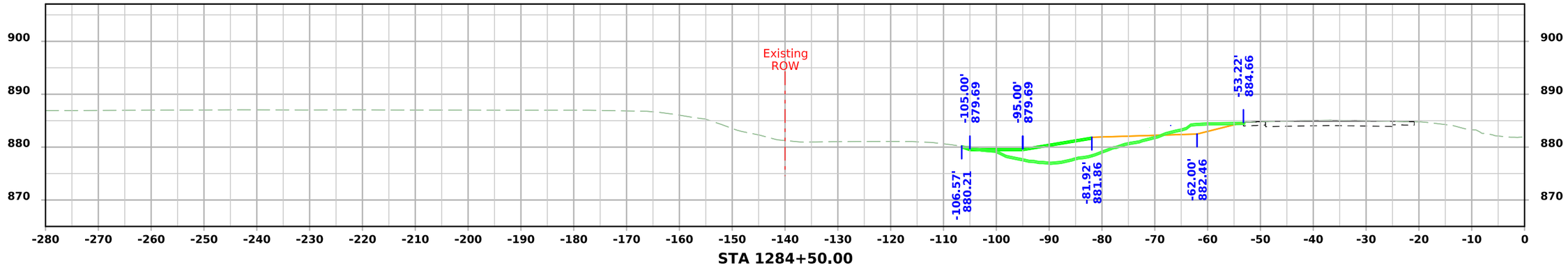


STA 1282+00.00

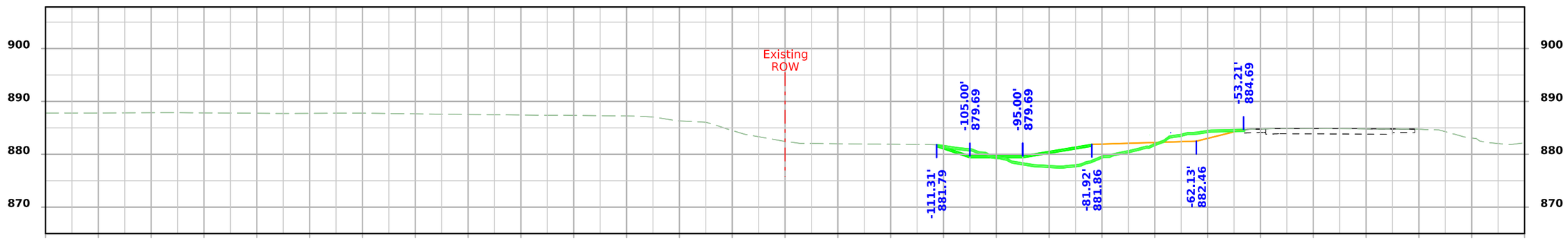
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.102

09:03:32 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30WB_WHKS_85030271Z08.dgn

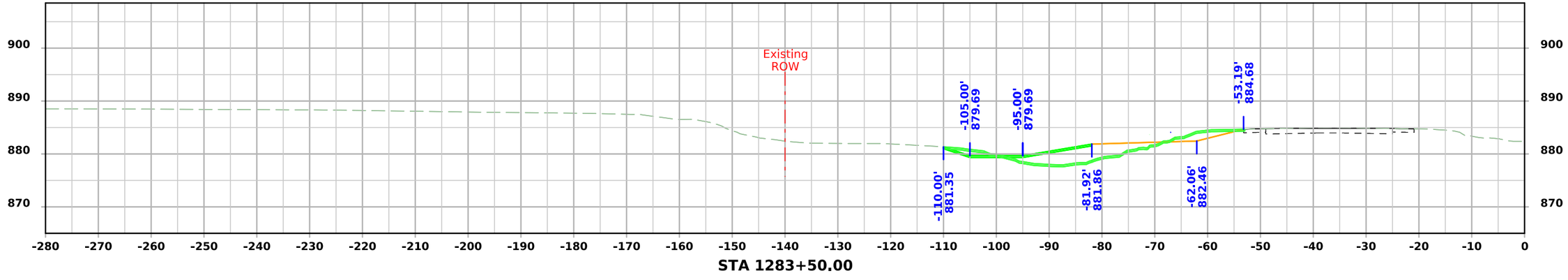
WB US HWY 30



STA 1284+50.00



STA 1284+00.00

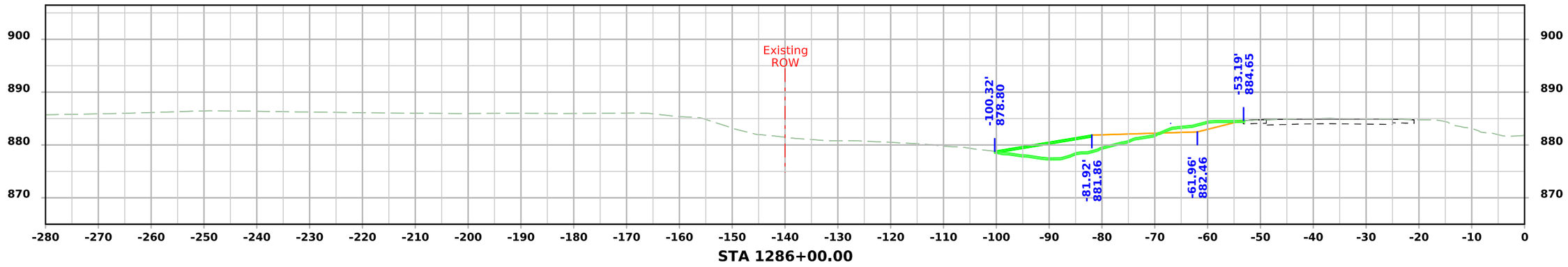


STA 1283+50.00

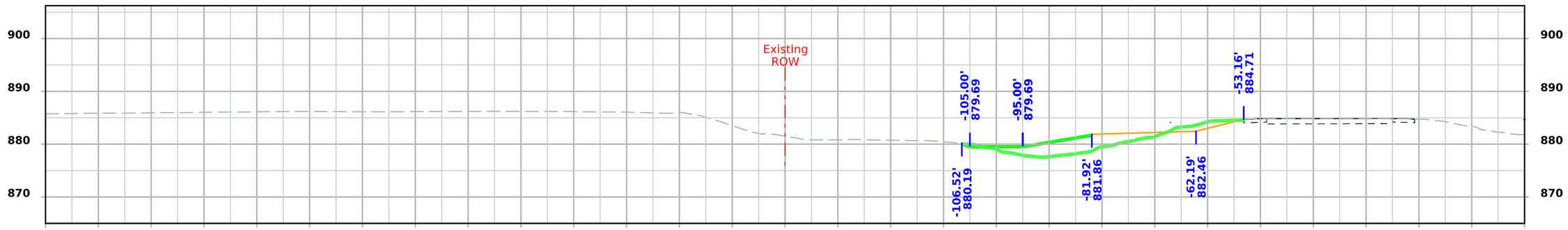
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.103

09:03:35 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30WB_WHKS_85030271Z08.dgn

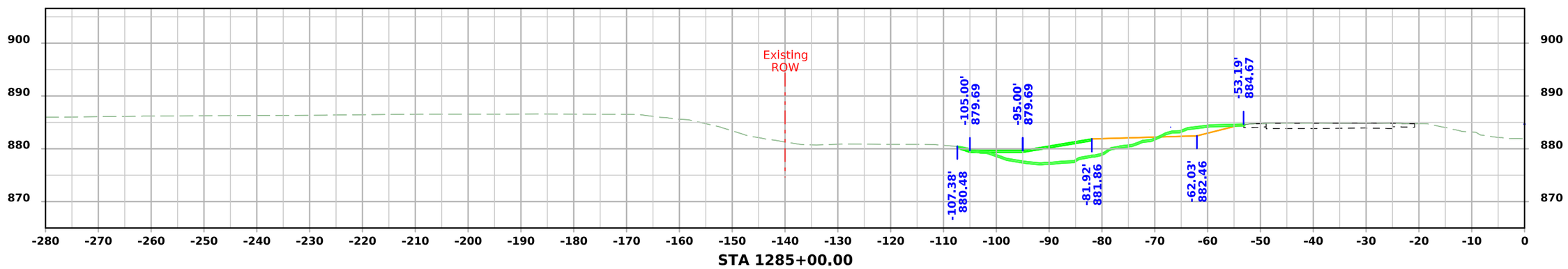
WB US HWY 30



STA 1286+00.00



STA 1285+50.00

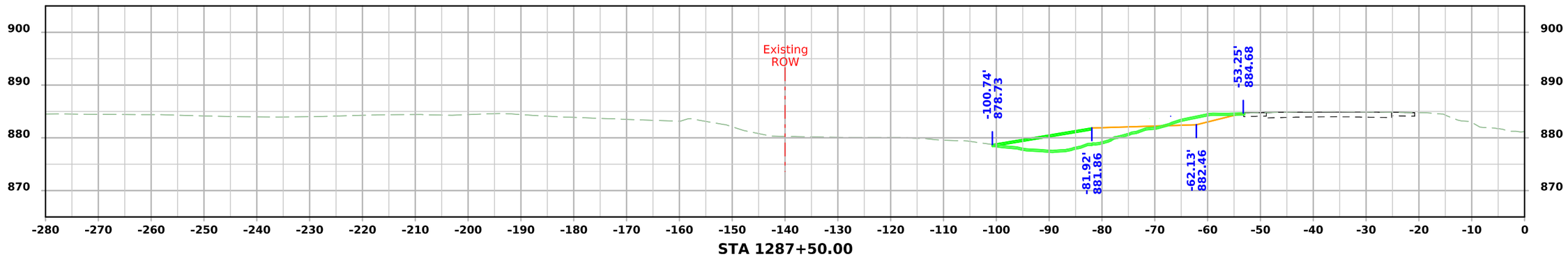


STA 1285+00.00

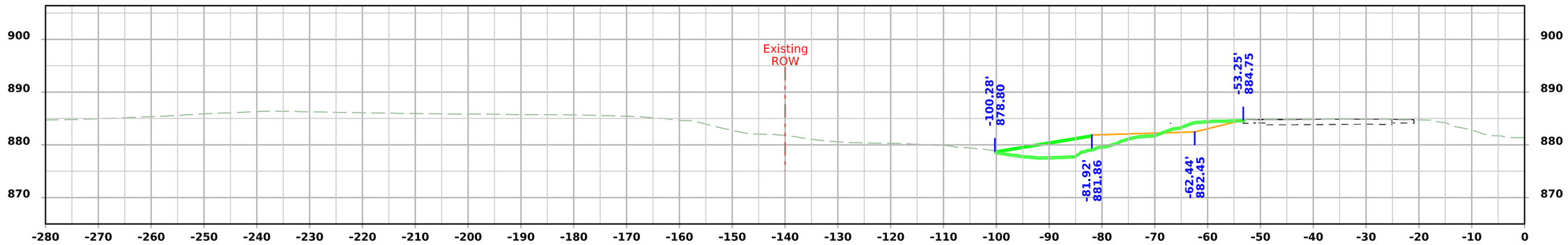
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.104

09:03:38 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30WB_WHKS_85030271Z08.dgn

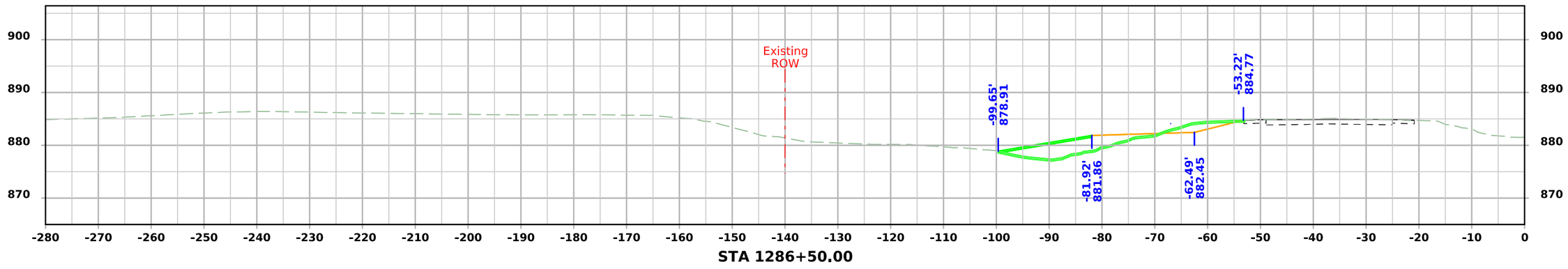
WB US HWY 30



STA 1287+50.00



STA 1287+00.00

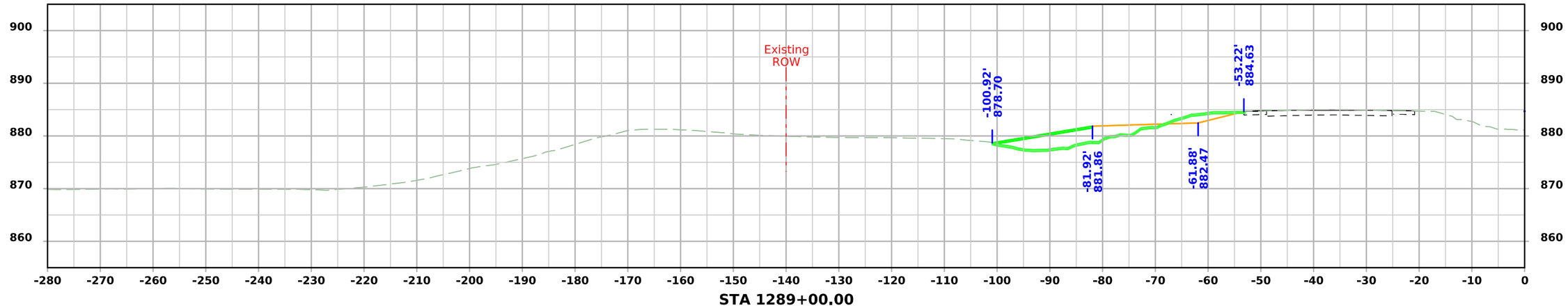


STA 1286+50.00

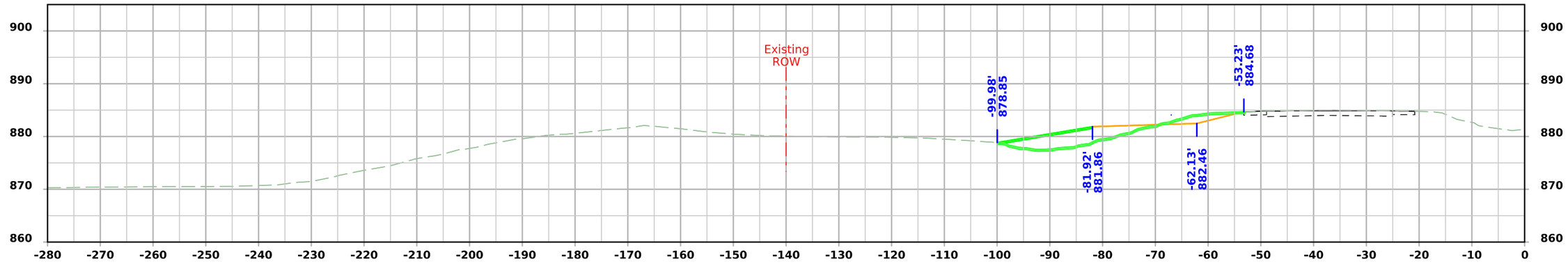
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.105

09:03:41 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30WB_WHKS_85030271Z08.dgn

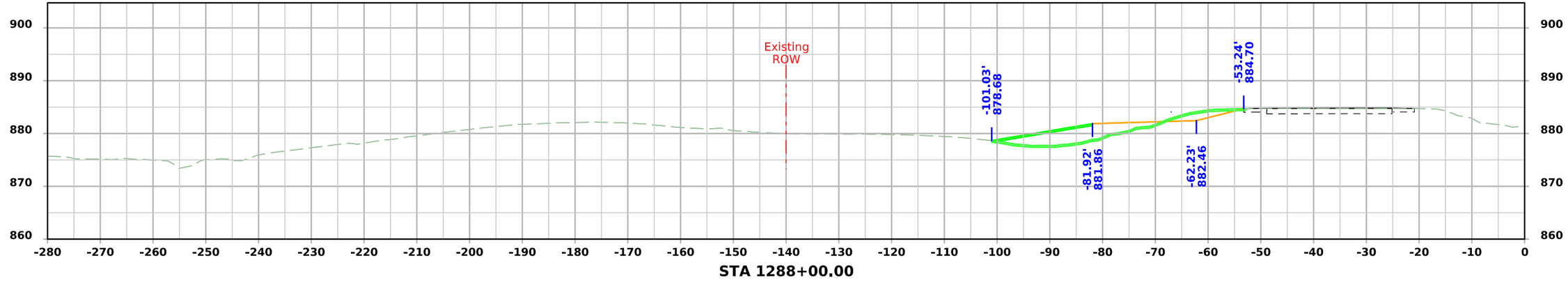
WB US HWY 30



STA 1289+00.00



STA 1288+50.00

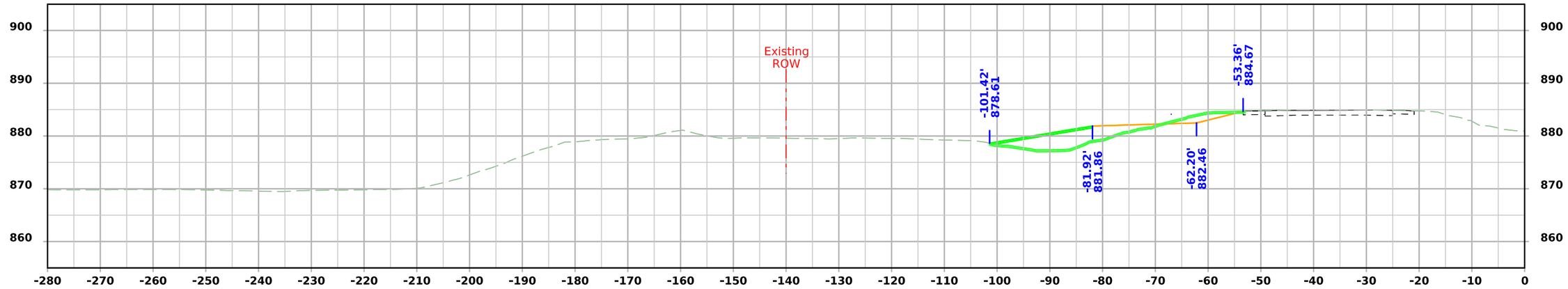


STA 1288+00.00

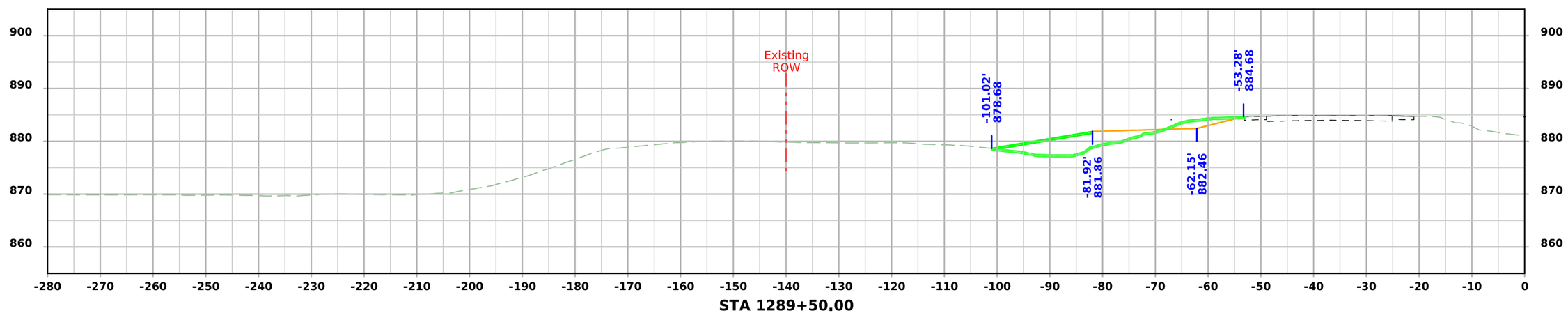
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.106

09:03:44 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30WB_WHKS_85030271Z08.dgn

WB US HWY 30



STA 1290+00.00

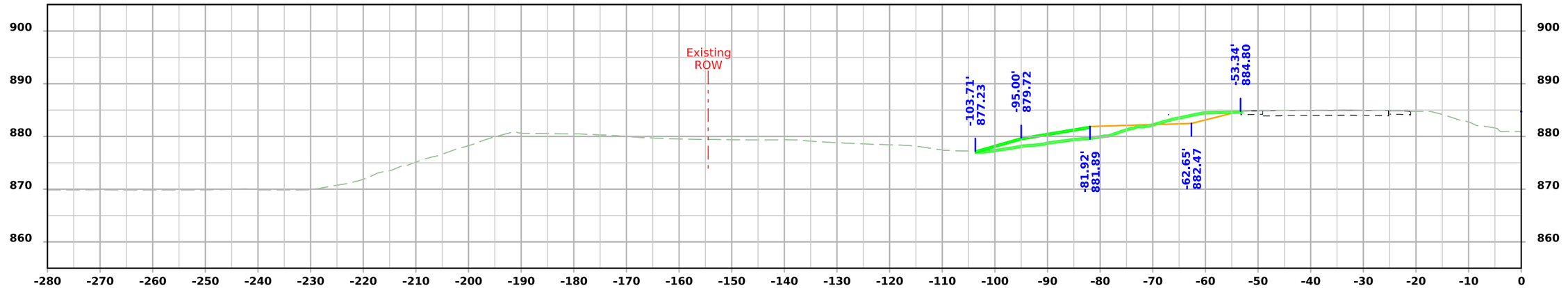


STA 1289+50.00

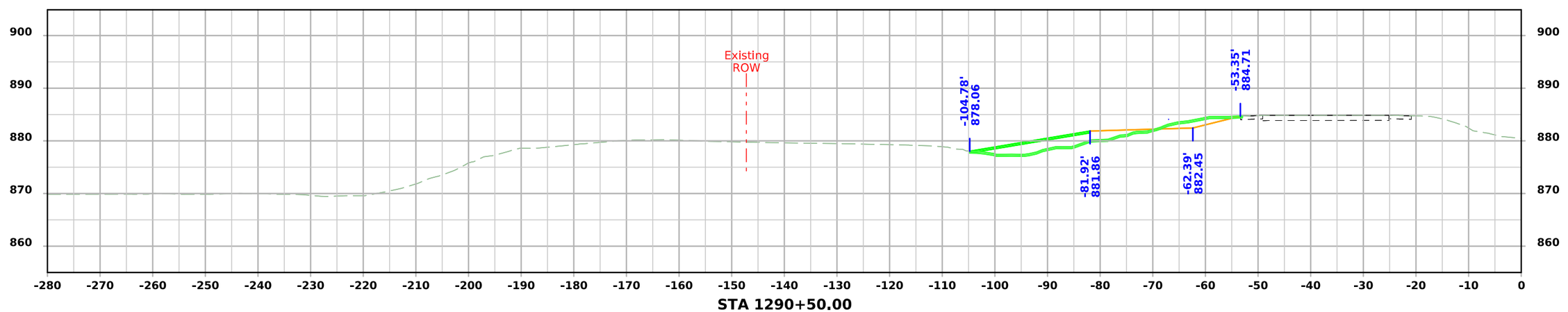
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.107

09:03:46 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30WB_WHKS_85030271Z08.dgn

WB US HWY 30



STA 1291+00.00

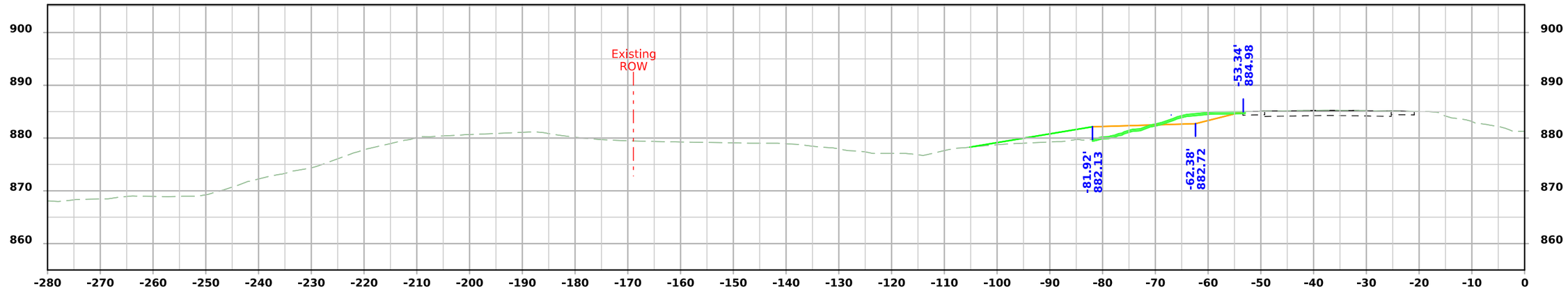


STA 1290+50.00

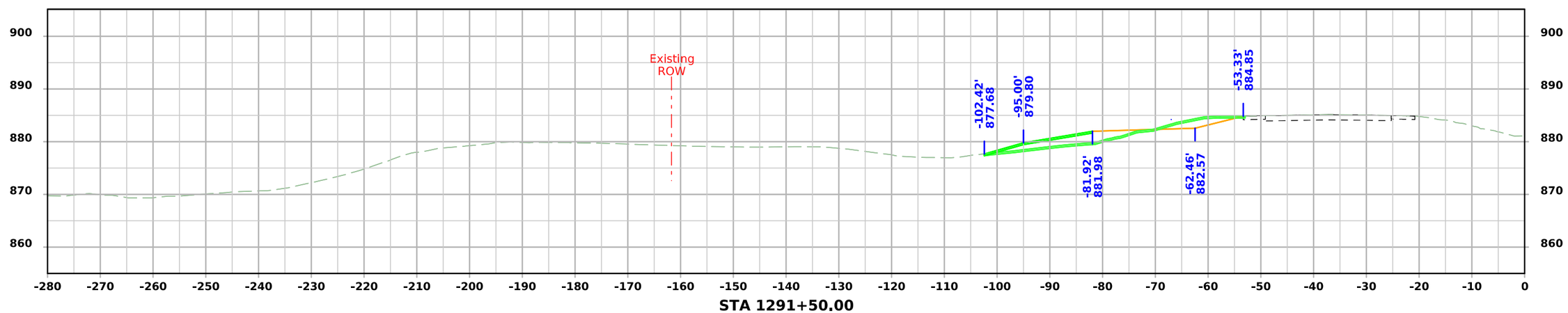
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.108

09:03:48 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30WB_WHKS_85030271Z08.dgn

WB US HWY 30



STA 1292+00.00

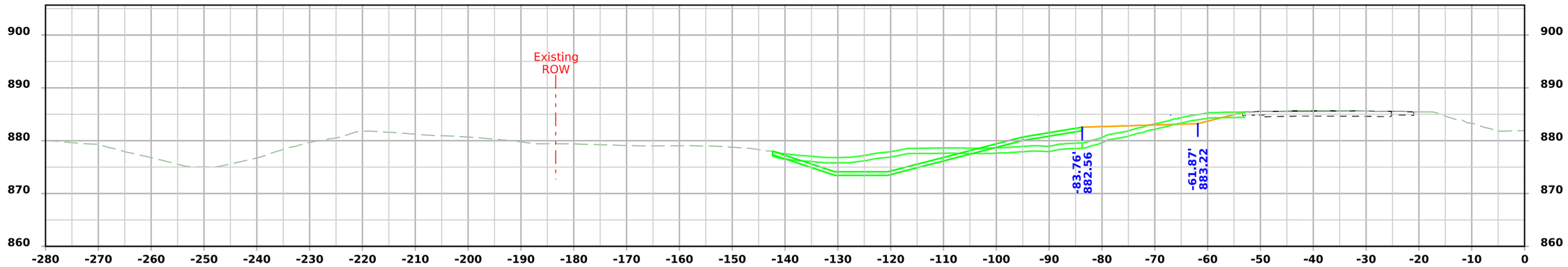


STA 1291+50.00

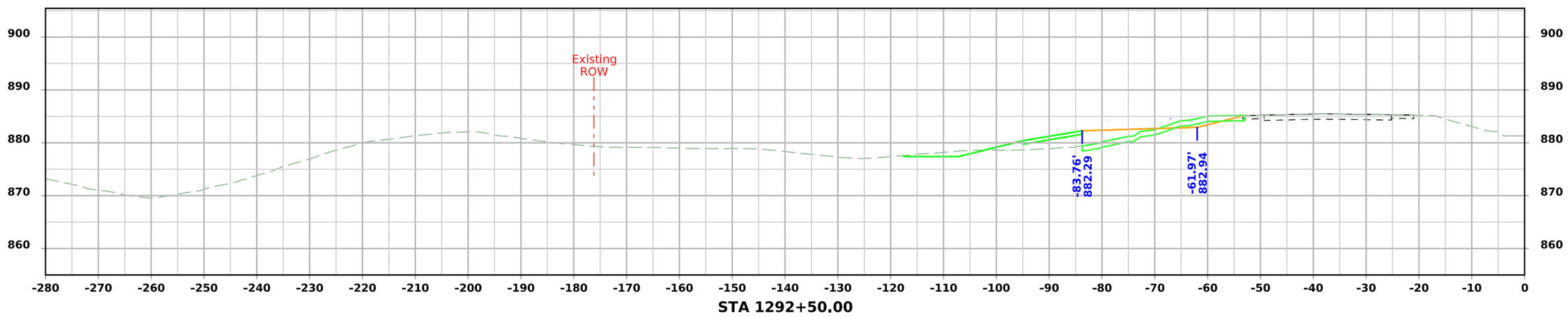
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.109

09:03:51 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30WB_WHKS_85030271Z08.dgn

WB US HWY 30



STA 1293+00.00

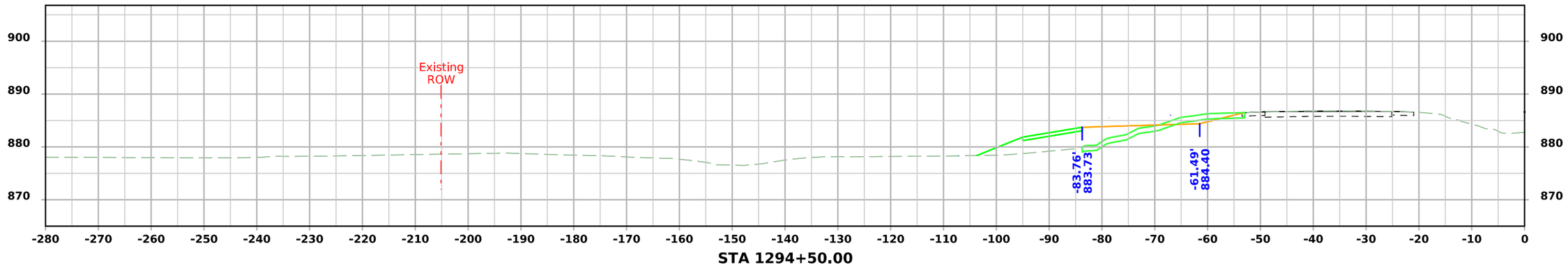


STA 1292+50.00

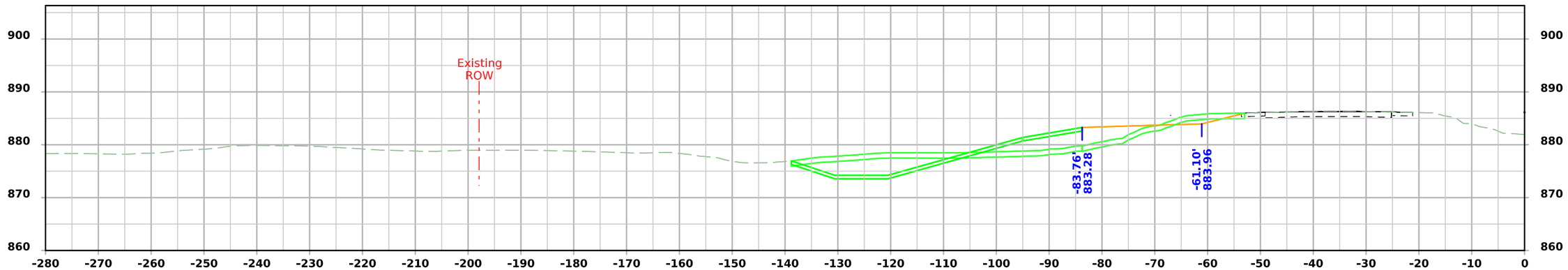
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.110

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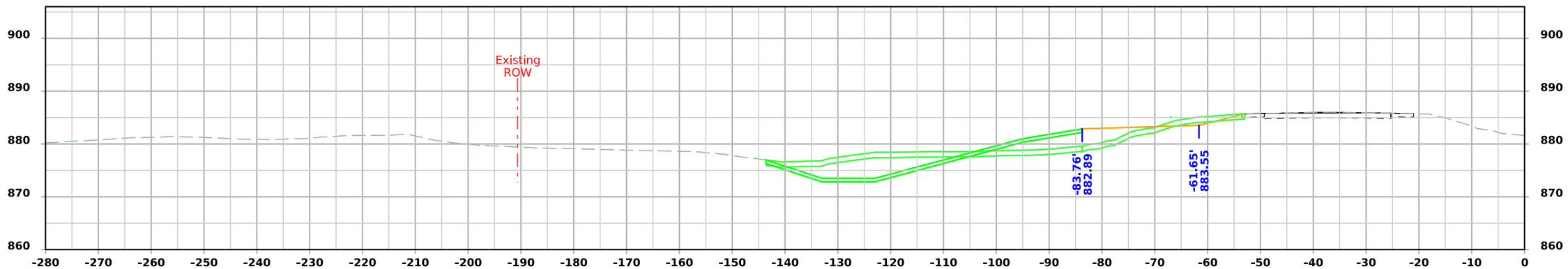
WB US HWY 30



STA 1294+50.00



STA 1294+00.00

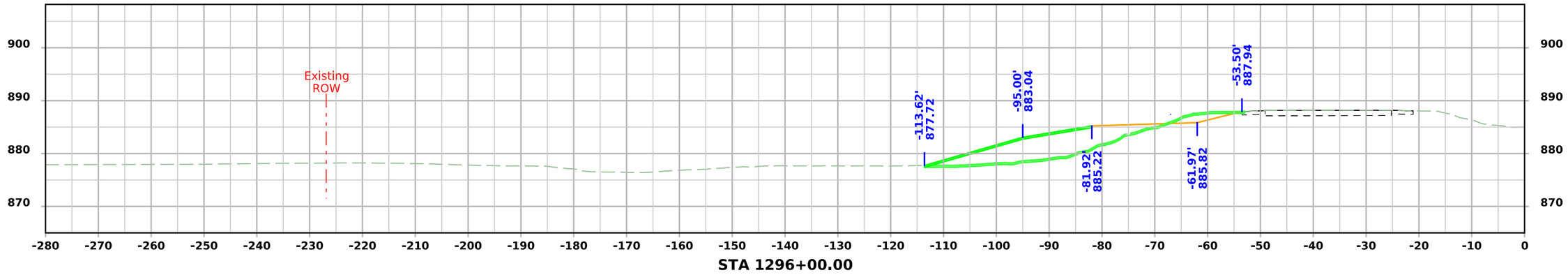


STA 1293+50.00

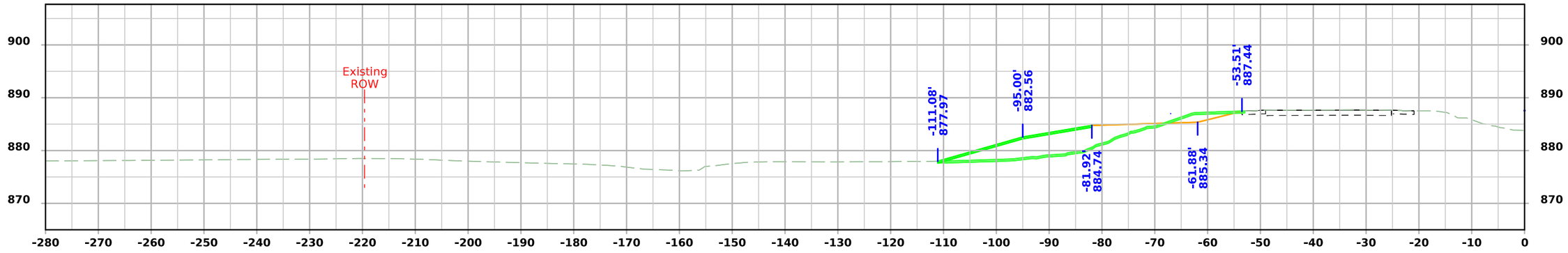
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.111

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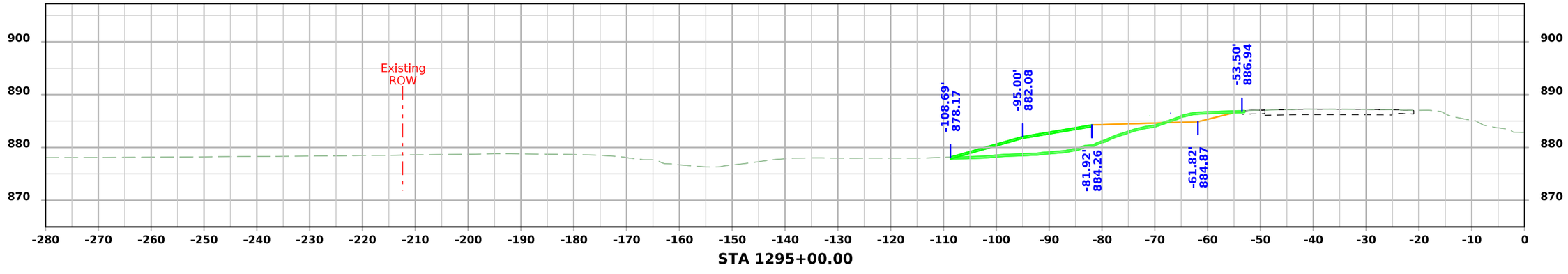
WB US HWY 30



STA 1296+00.00



STA 1295+50.00

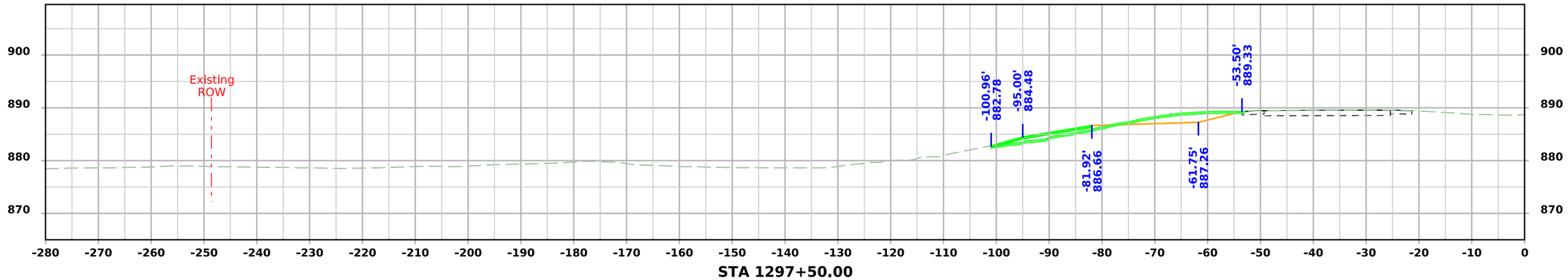


STA 1295+00.00

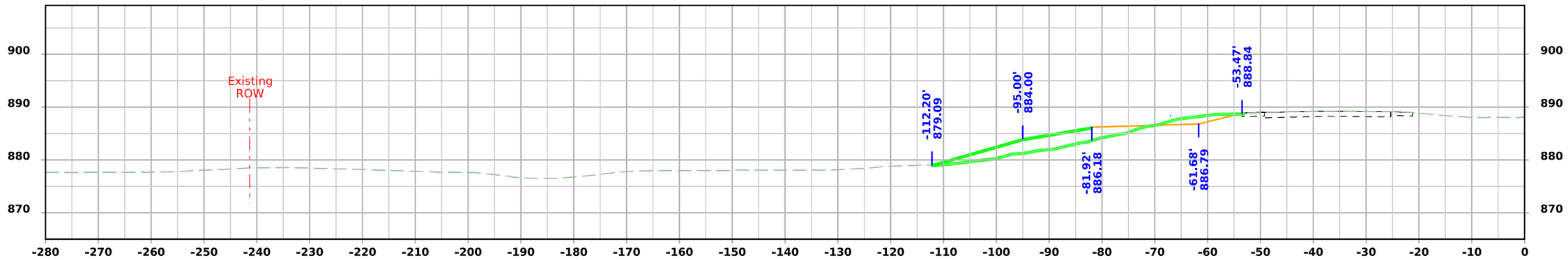
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.112

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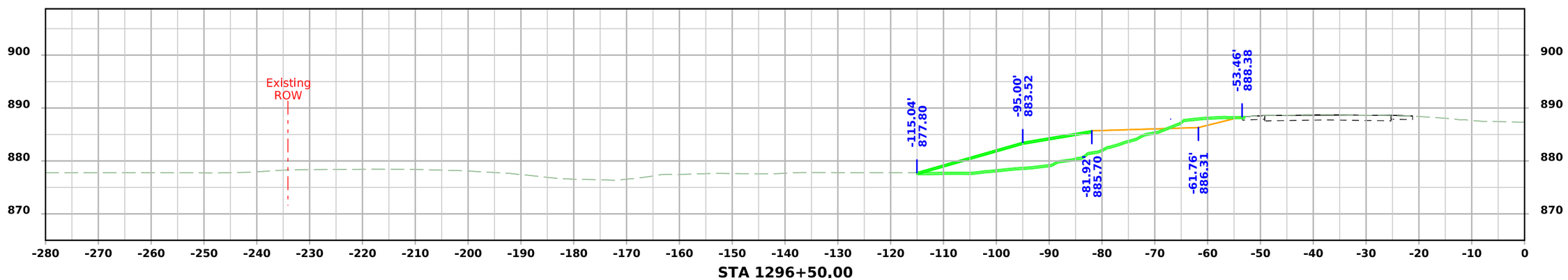
WB US HWY 30



STA 1297+50.00



STA 1297+00.00

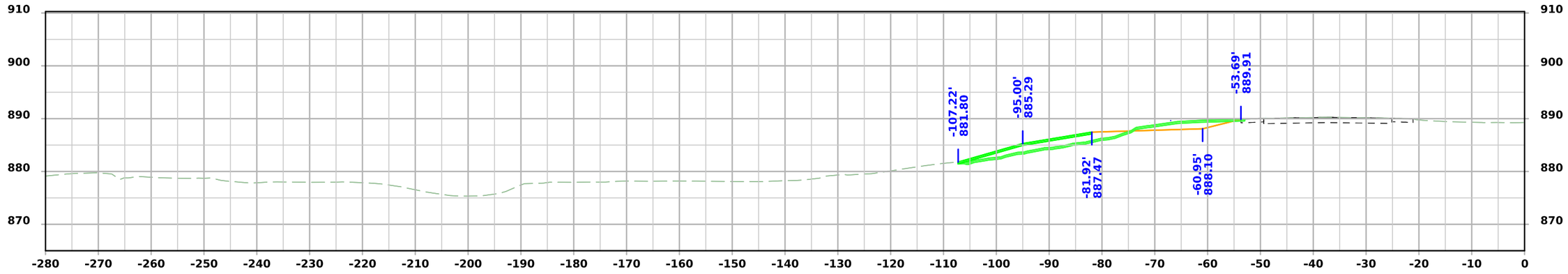


STA 1296+50.00

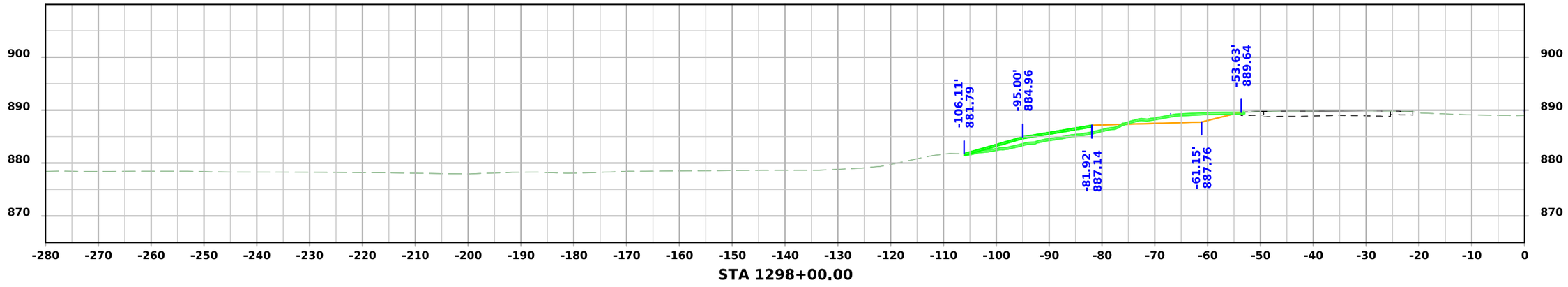
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.113

09:04:02 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30WB_WHKS_85030271Z08.dgn

WB US HWY 30



STA 1298+34.30

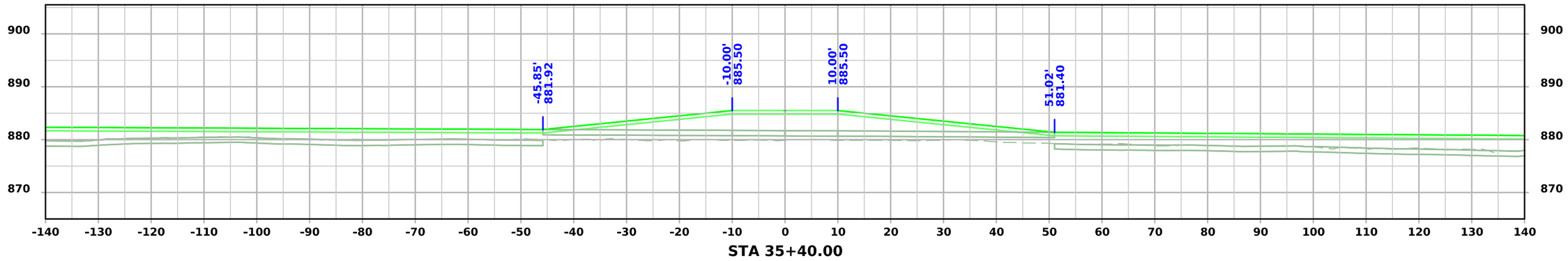


STA 1298+00.00

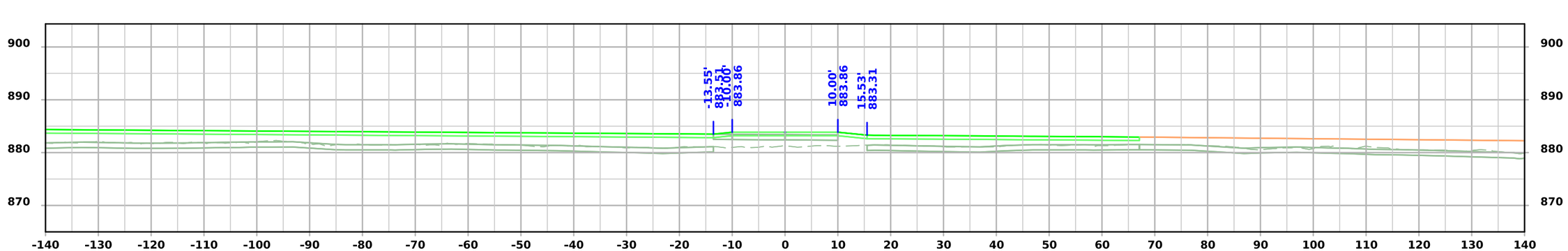
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER W.114

09:04:04 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_US30WB_WHKS_85030271Z08.dgn

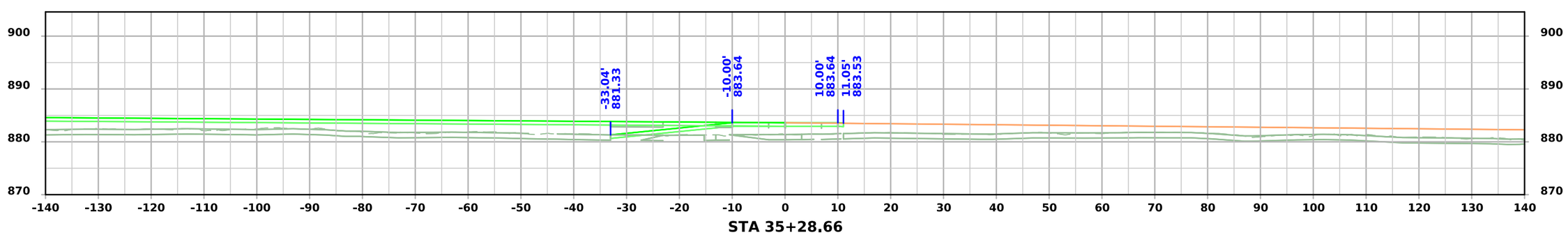
DAYTON AVE RAMP C DIKE SITE 3



STA 35+40.00



STA 35+30.00

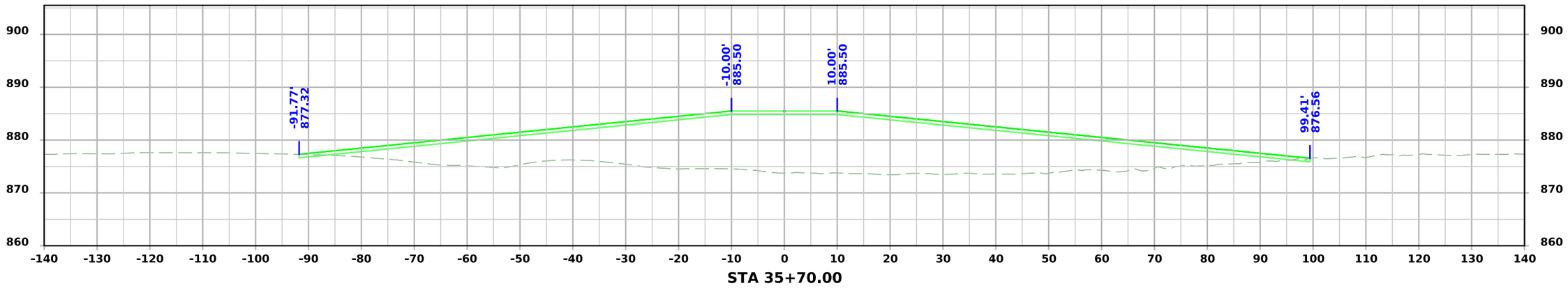


STA 35+28.66

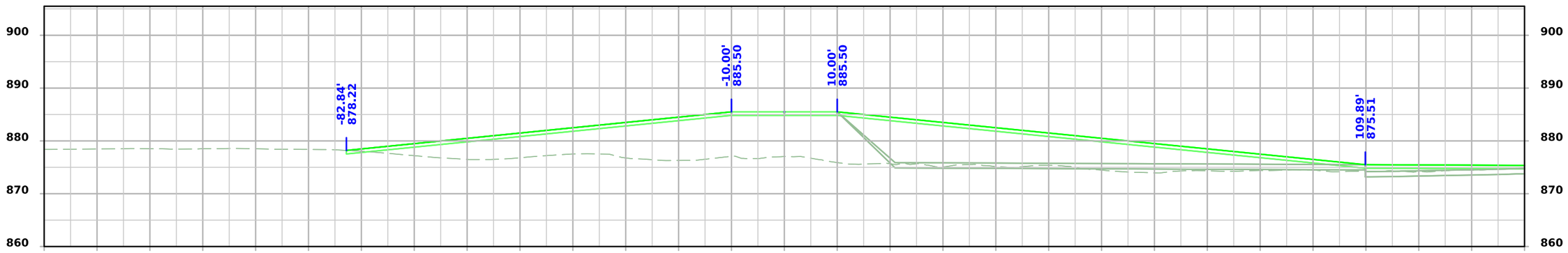
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER X.1

09:07:45 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_DIKE_ST3_WHKS_85030271Z08.dgn

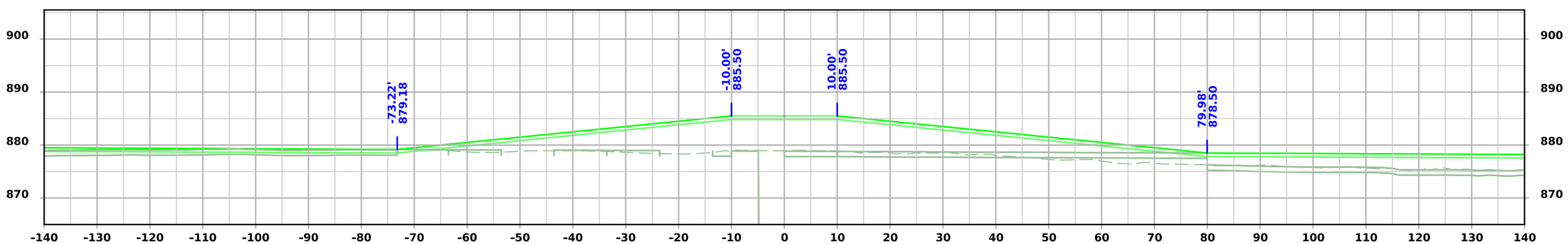
DAYTON AVE RAMP C DIKE SITE 3



STA 35+70.00



STA 35+60.00

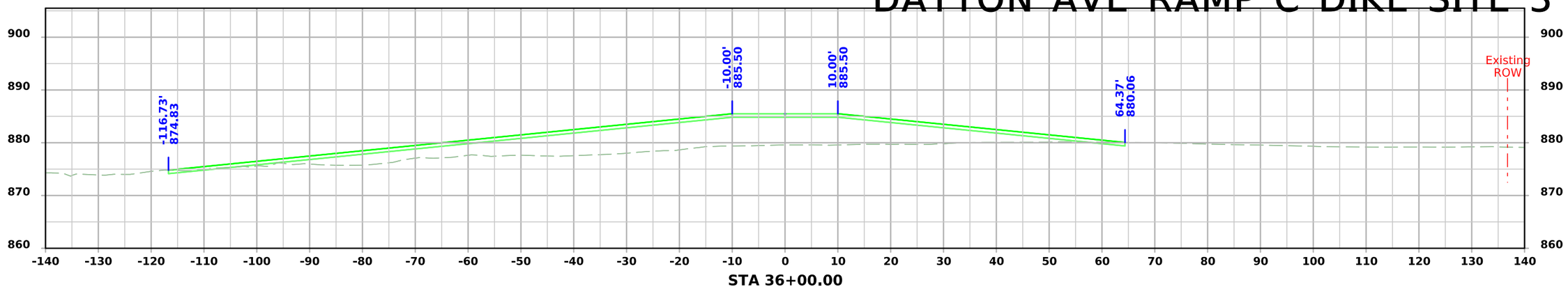


STA 35+50.00

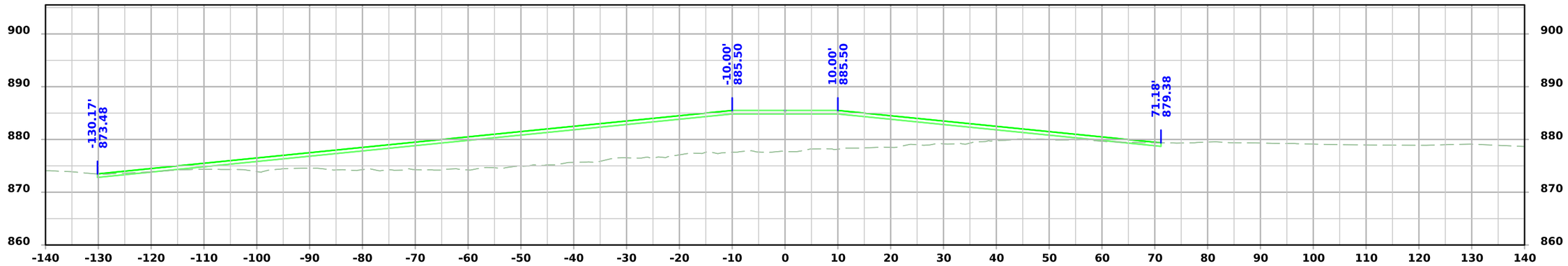
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER X.2

09:08:04 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_DIKE_ST3_WHKS_85030271Z08.dgn

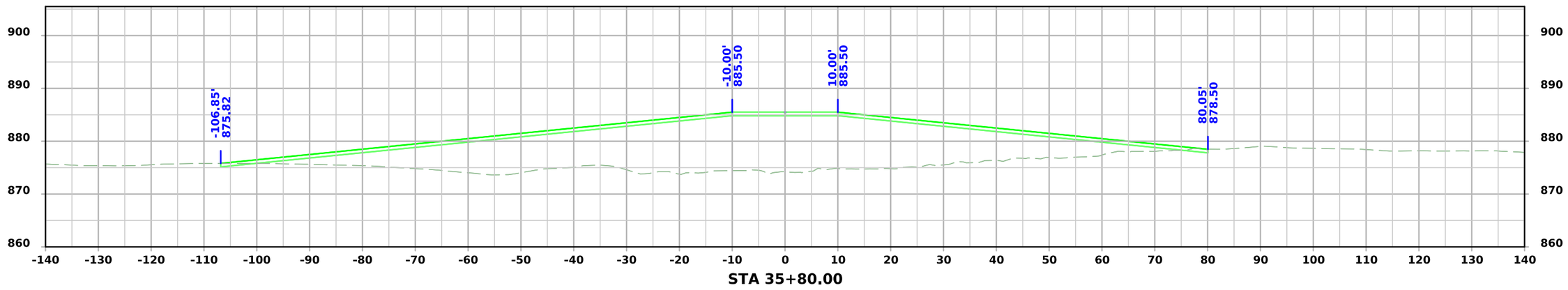
DAYTON AVE RAMP C DIKE SITE 3



STA 36+00.00



STA 35+90.00

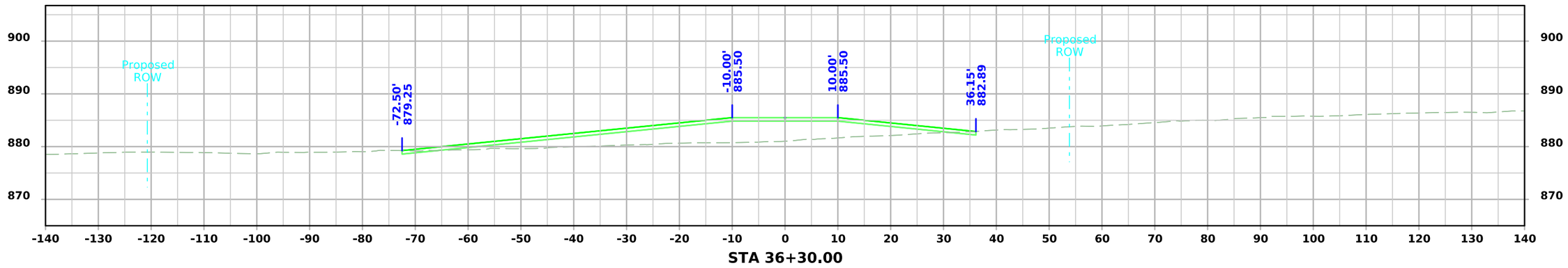


STA 35+80.00

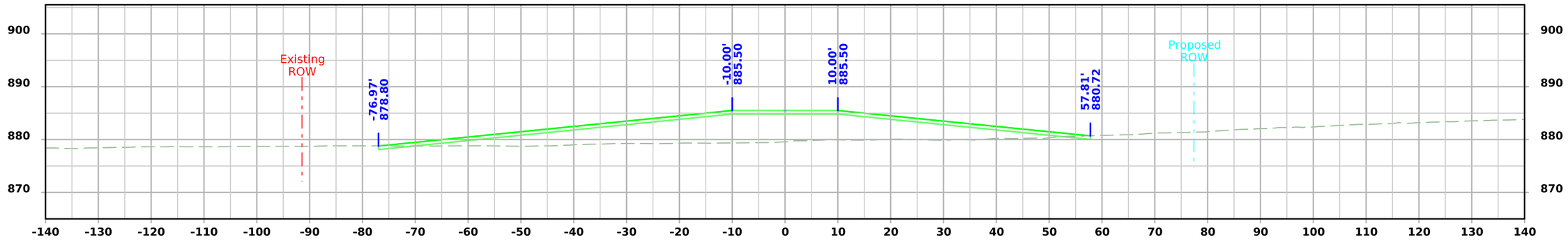
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER X.3	

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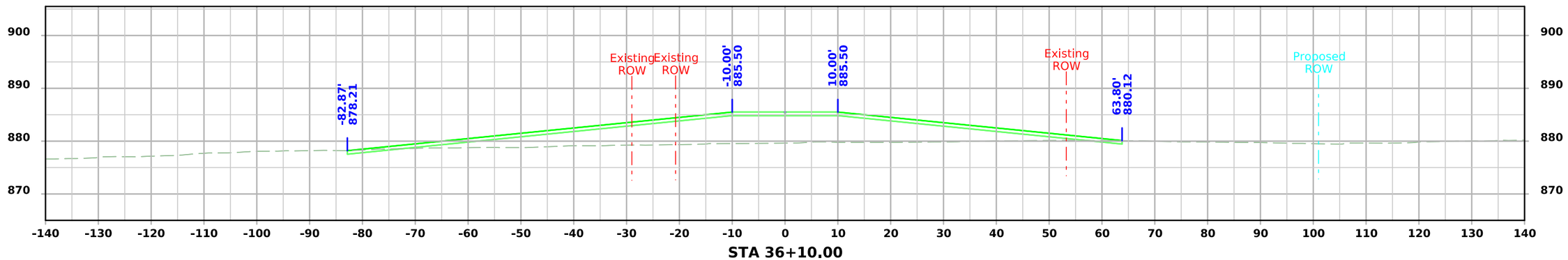
DAYTON AVE RAMP C DIKE SITE 3



STA 36+30.00



STA 36+20.00

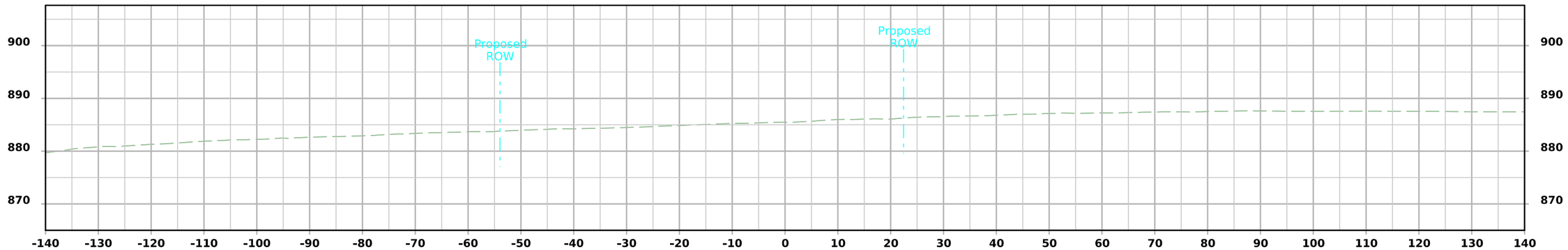


STA 36+10.00

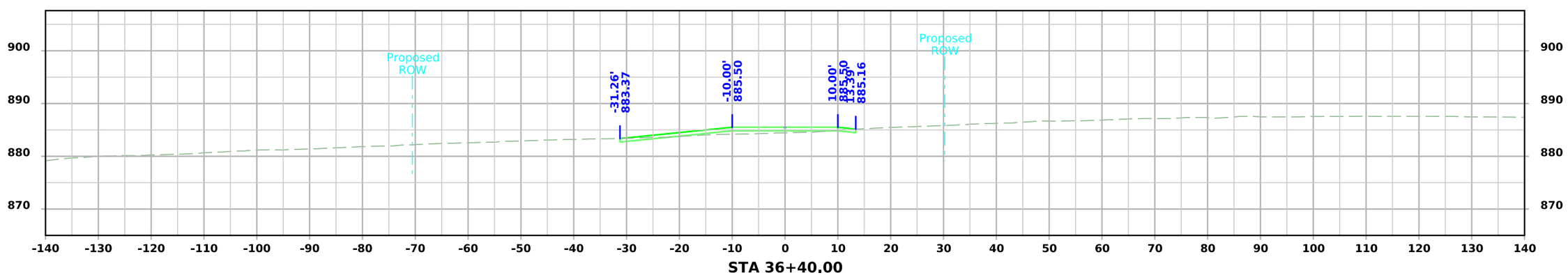
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER X.4

09:08:08 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_DIKE_ST3_WHKS_85030271Z08.dgn

DAYTON AVE RAMP C DIKE SITE 3



STA 36+43.31

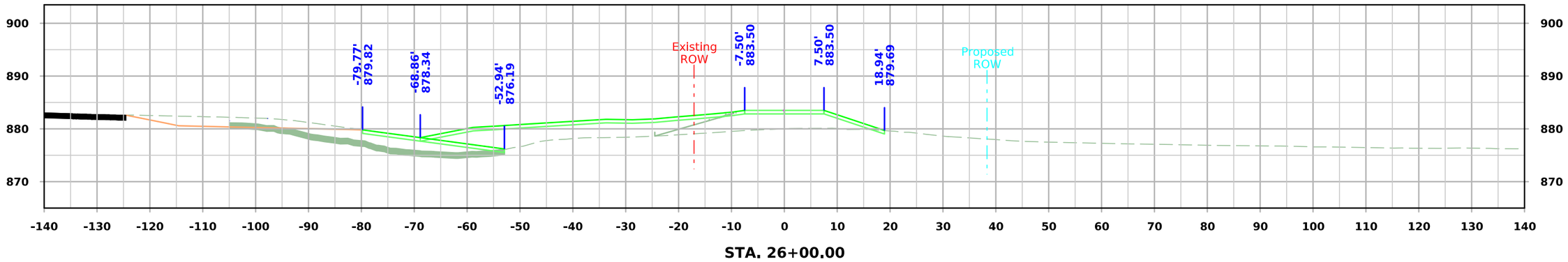


STA 36+40.00

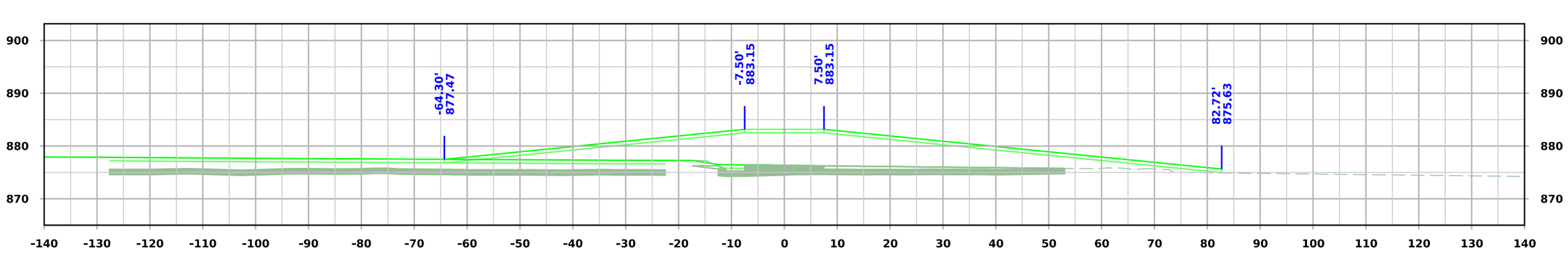
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER X.5

09:08:09 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_DIKE_ST3_WHKS_85030271Z08.dgn

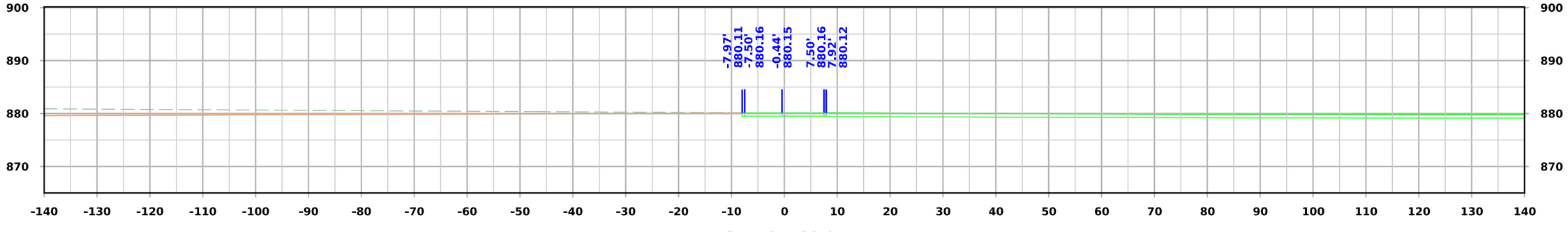
DAYTON AVE RAMP B DIKE SITE 4



STA. 26+00.00



STA. 25+50.00

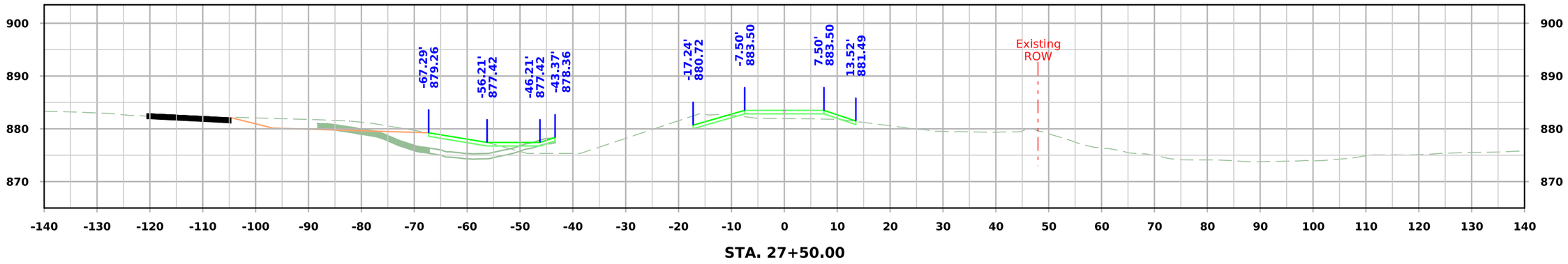


STA. 25+32.05

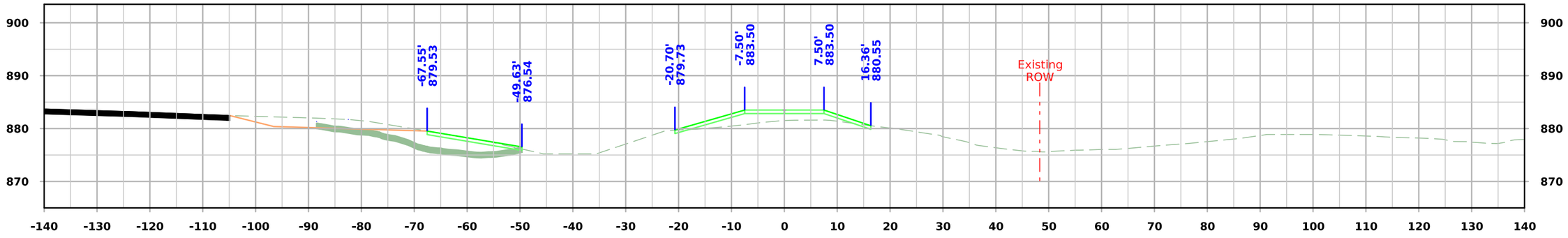
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER X.100	

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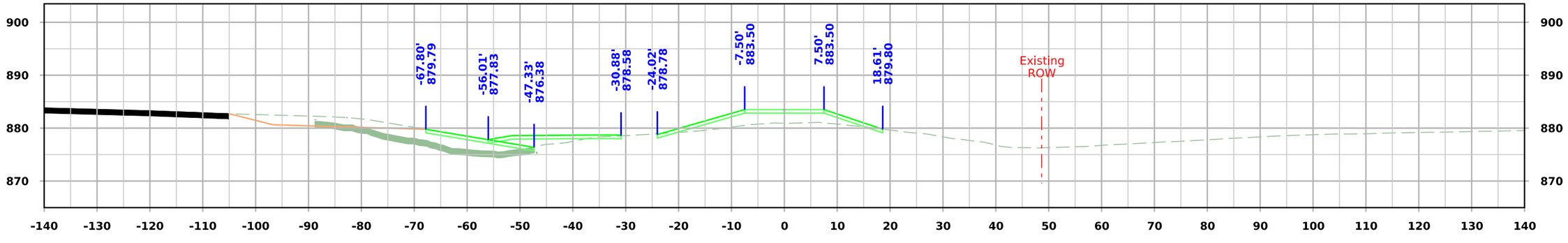
DAYTON AVE RAMP B DIKE SITE 4



STA. 27+50.00



STA. 27+00.00

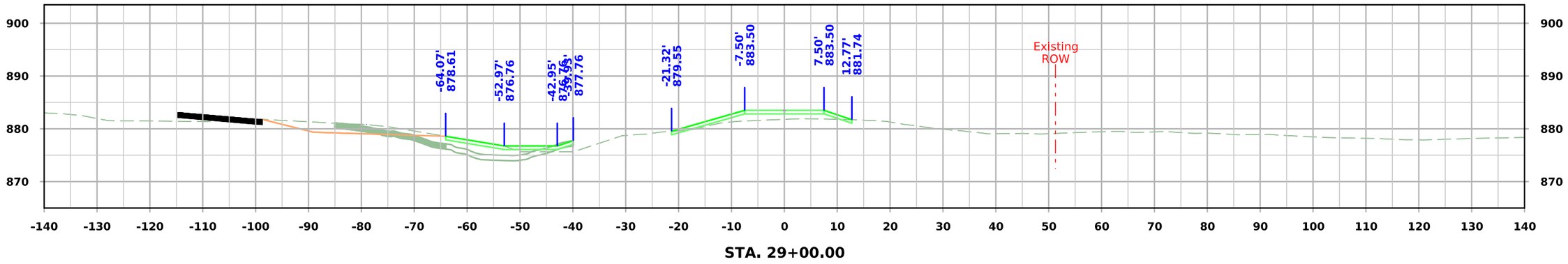


STA. 26+50.00

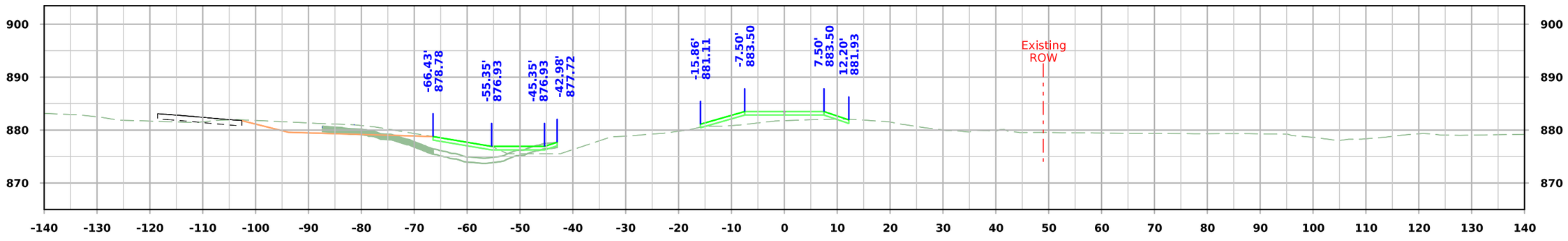
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER X.101	

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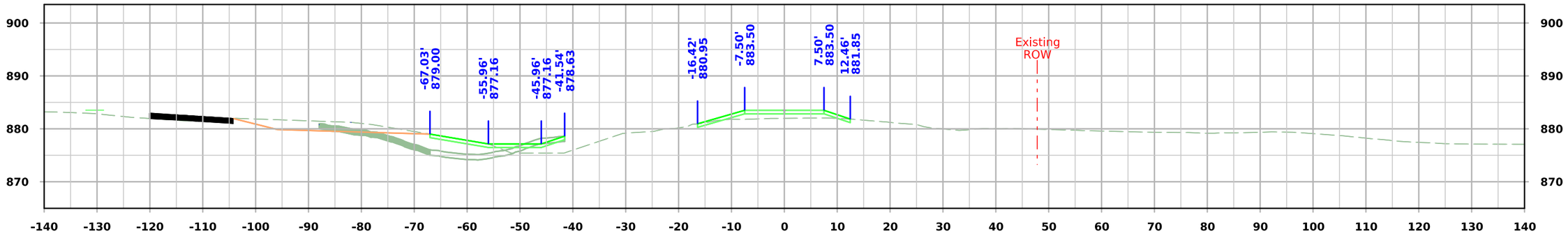
DAYTON AVE RAMP B DIKE SITE 4



STA. 29+00.00



STA. 28+50.00

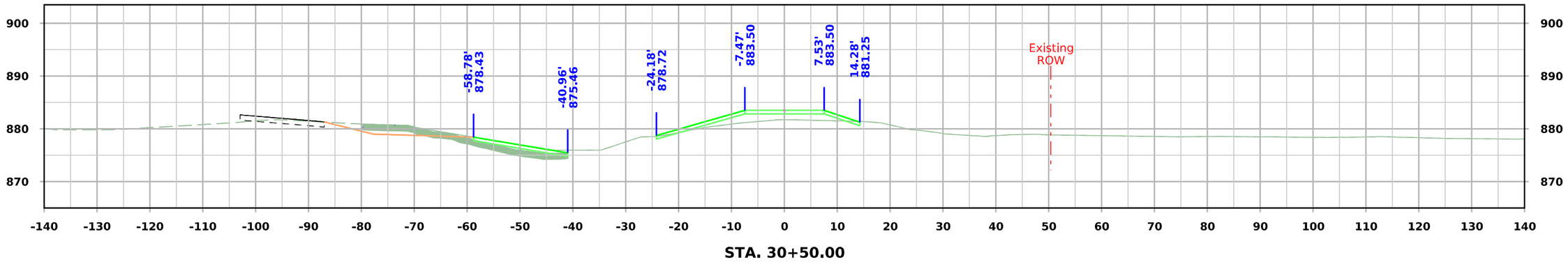


STA. 28+00.00

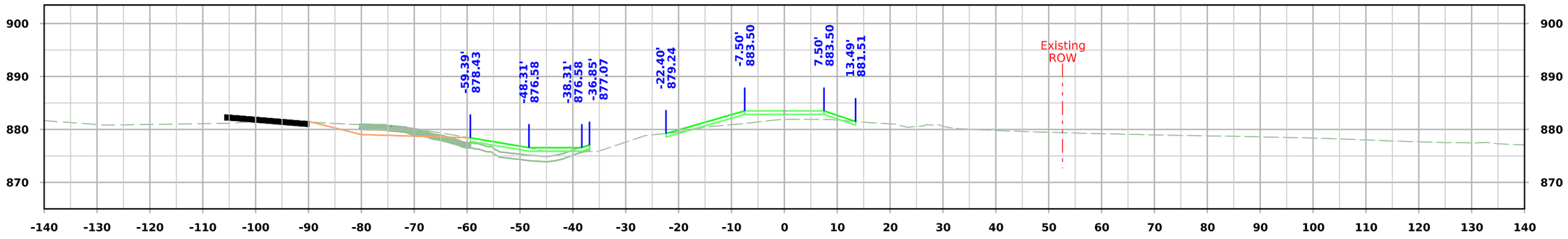
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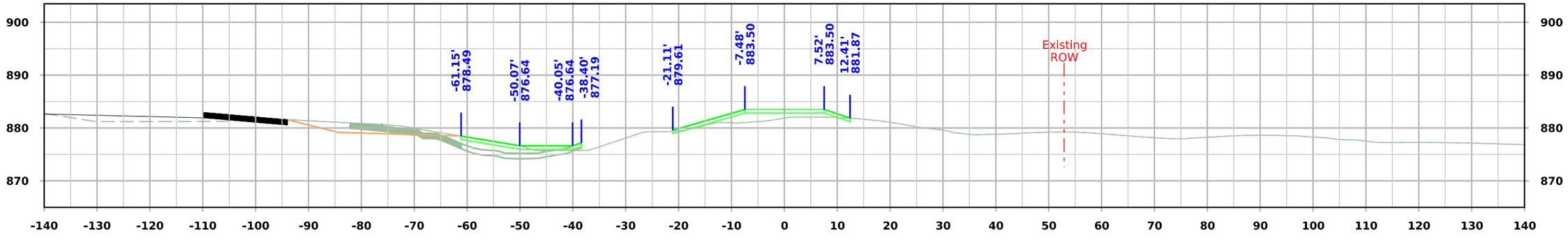
DAYTON AVE RAMP B DIKE SITE 4



STA. 30+50.00



STA. 30+00.00

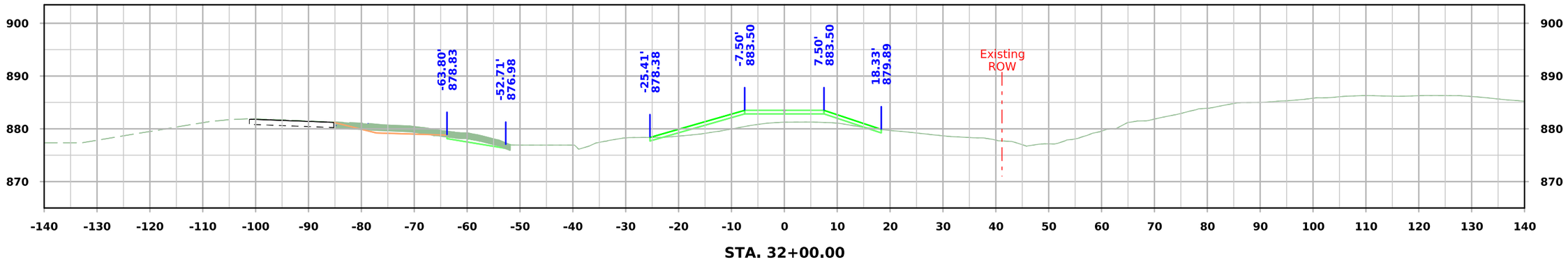


STA. 29+50.00

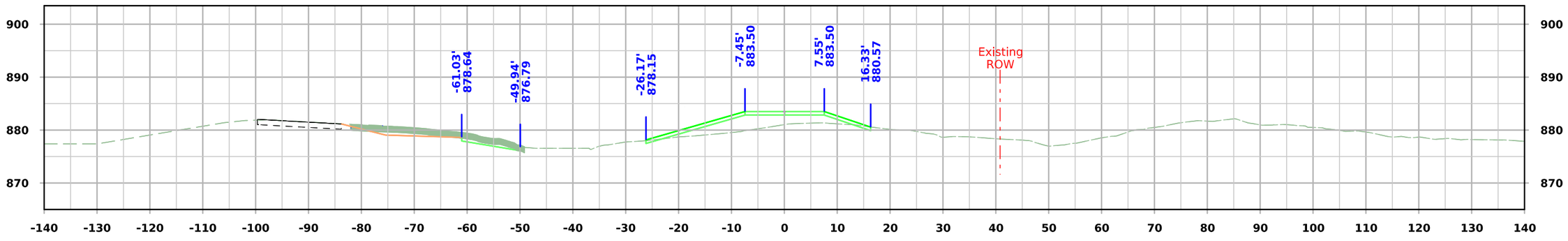
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER X.103

09:10:47 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_DIKE_ST4_WHKS_85030271Z08.dgn

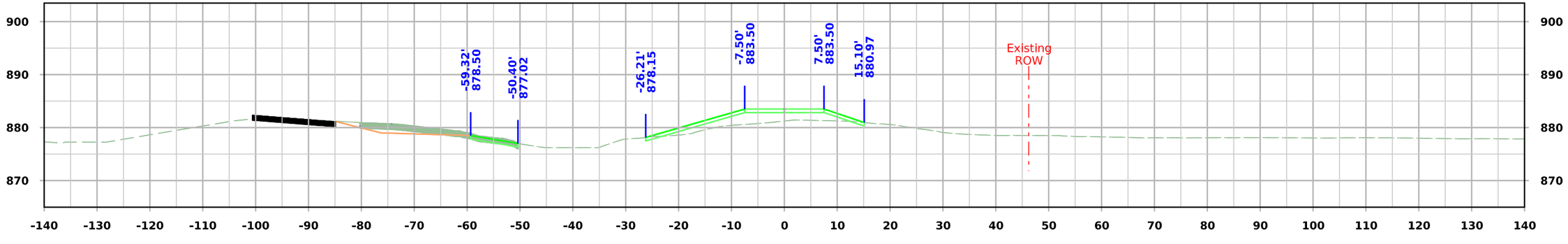
DAYTON AVE RAMP B DIKE SITE 4



STA. 32+00.00



STA. 31+50.00

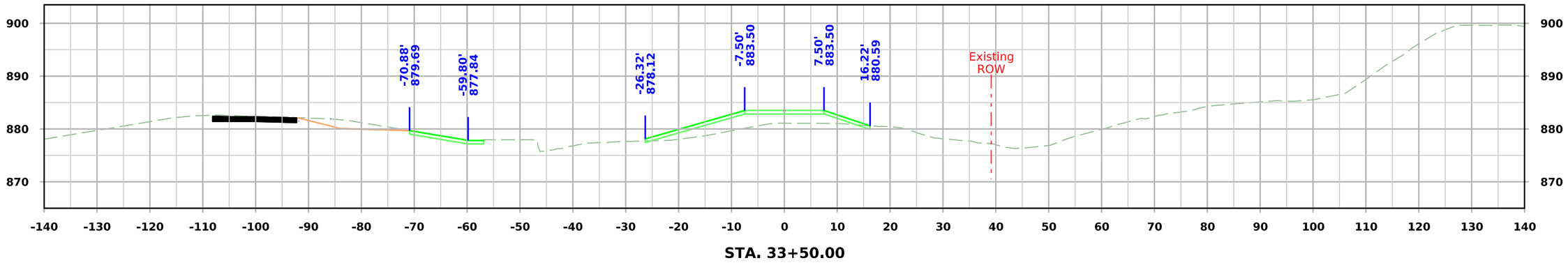


STA. 31+00.00

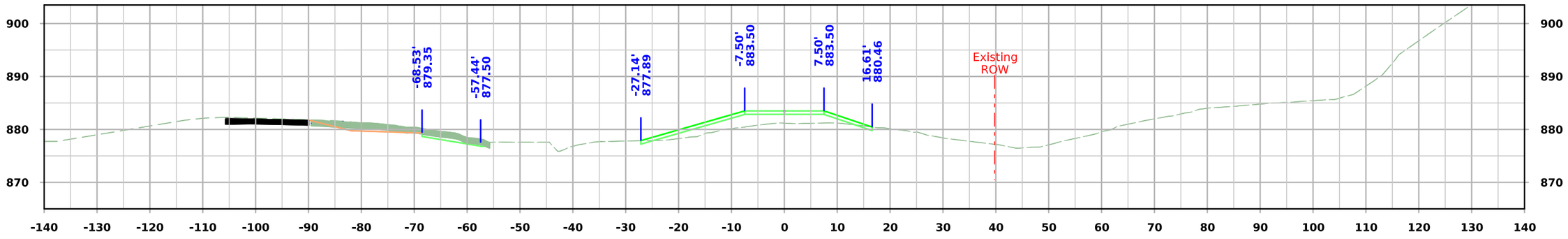
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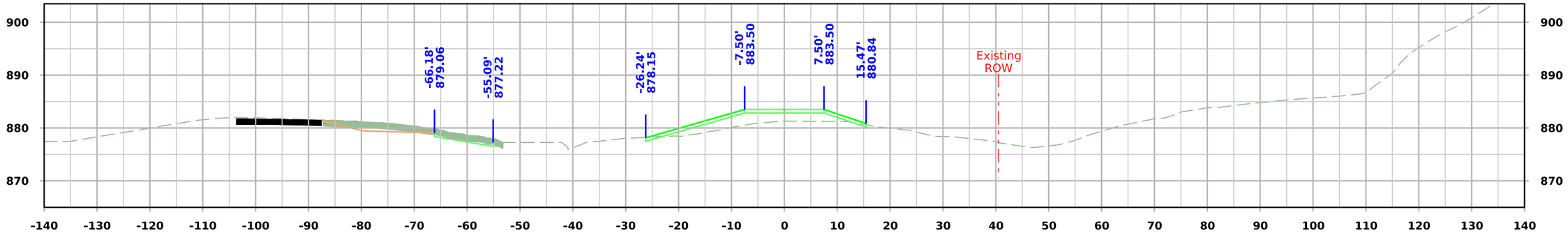
DAYTON AVE RAMP B DIKE SITE 4



STA. 33+50.00



STA. 33+00.00

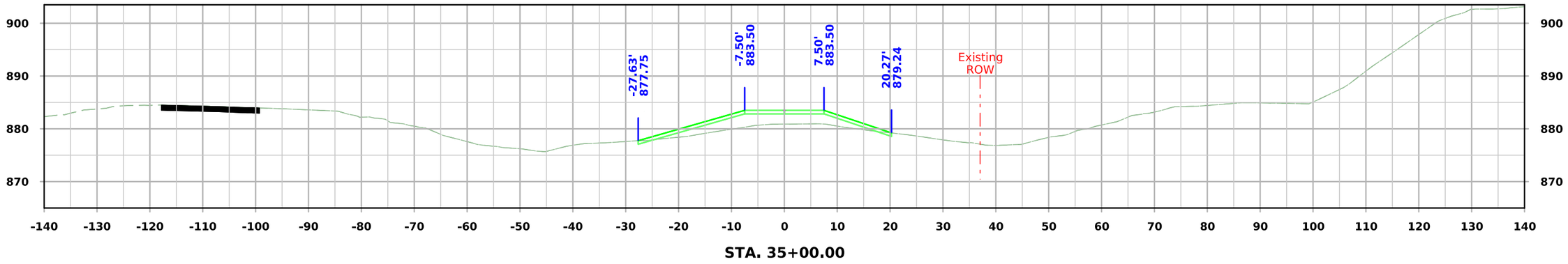


STA. 32+50.00

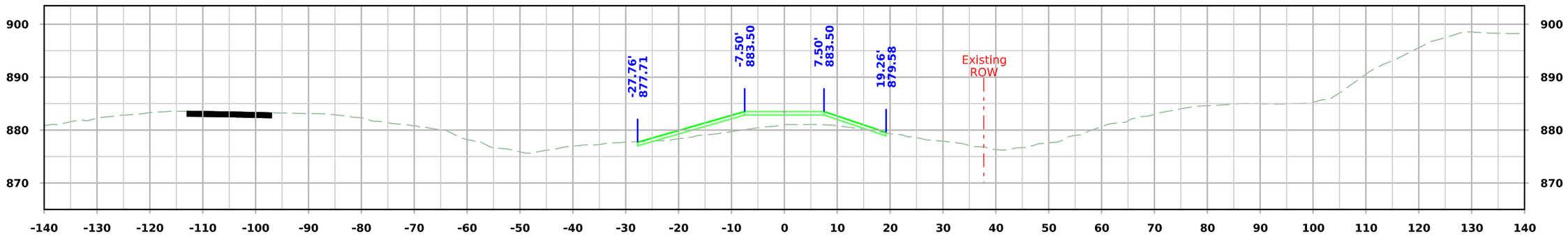
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER X.105

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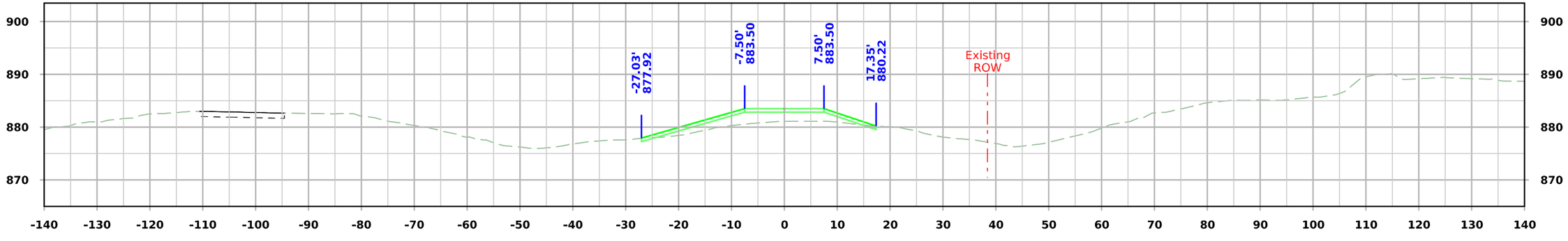
DAYTON AVE RAMP B DIKE SITE 4



STA. 35+00.00



STA. 34+50.00

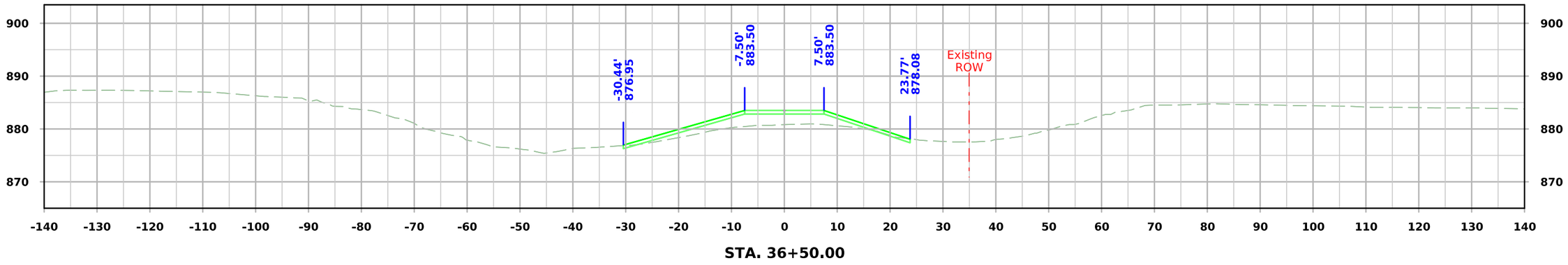


STA. 34+00.00

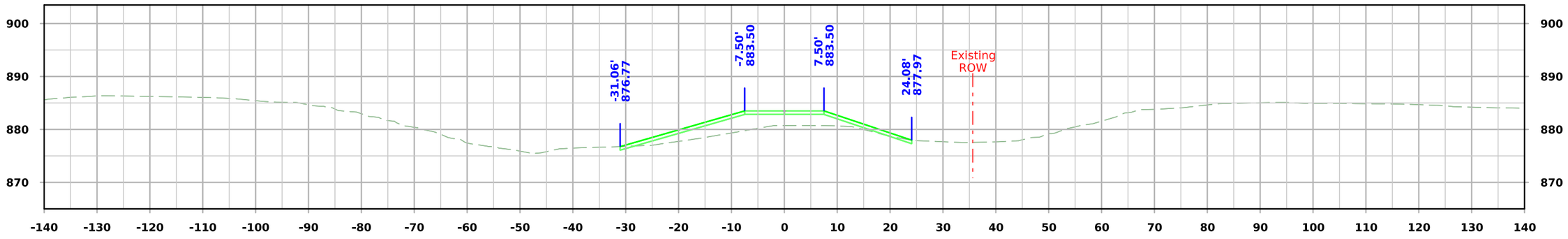
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER X.106

09:10:58 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_DIKE_ST4_WHKS_85030271Z08.dgn

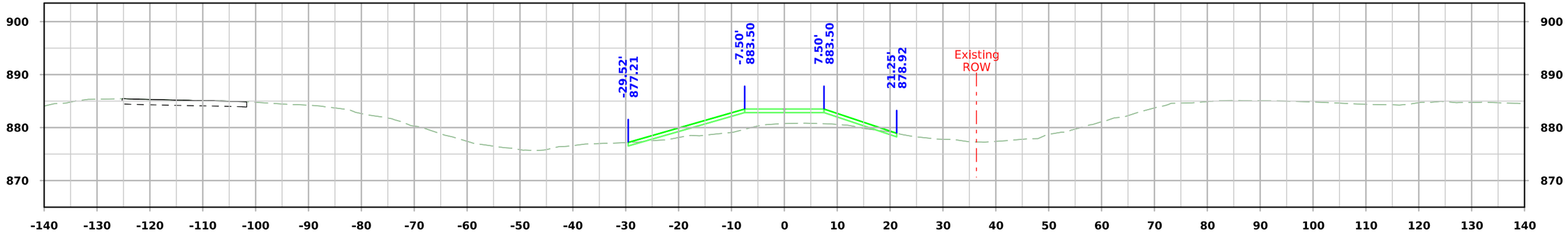
DAYTON AVE RAMP B DIKE SITE 4



STA. 36+50.00



STA. 36+00.00

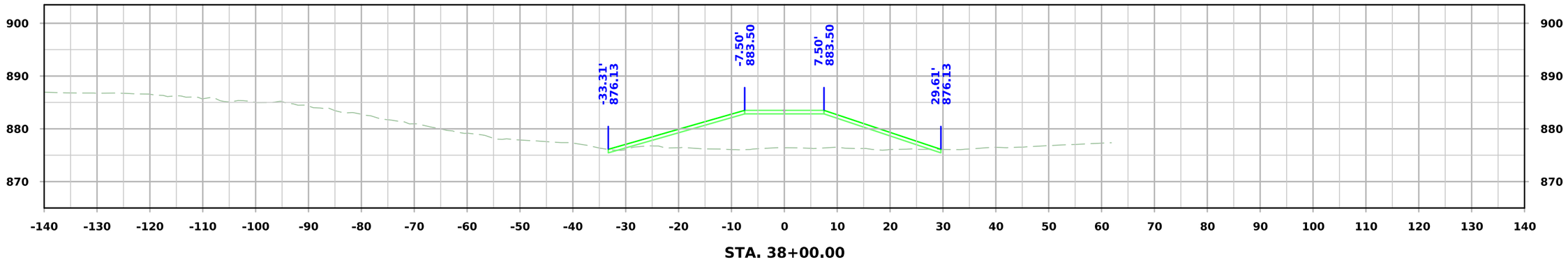


STA. 35+50.00

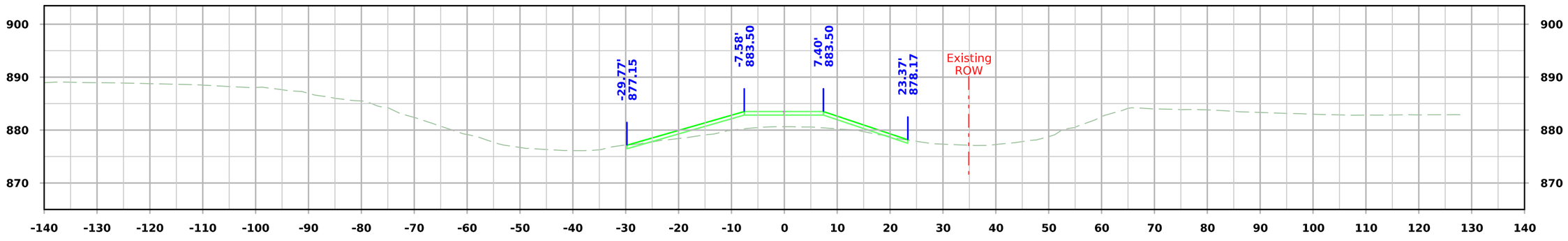
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER X.107

09:11:01 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_DIKE_ST4_WHKS_85030271Z08.dgn

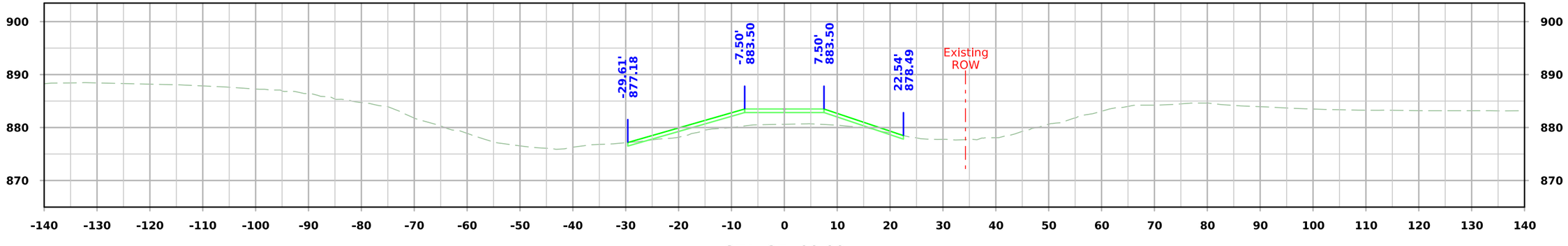
DAYTON AVE RAMP B DIKE SITE 4



STA. 38+00.00



STA. 37+50.00

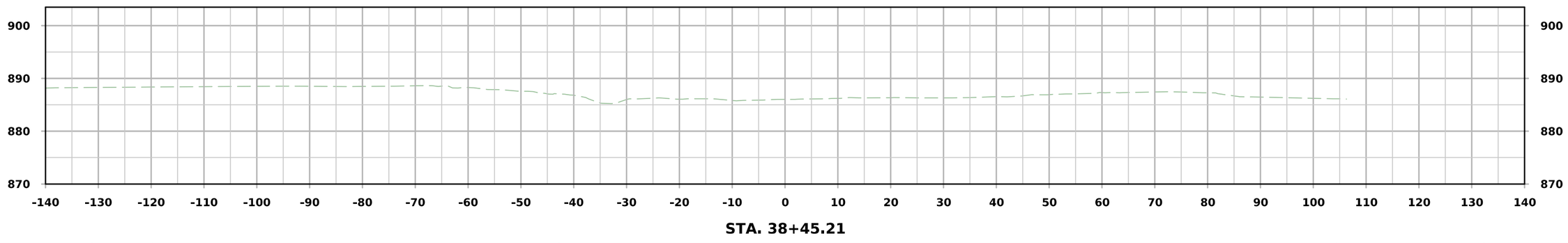


STA. 37+00.00

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER X.108

09:11:05 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_DIKE_ST4_WHKS_85030271Z08.dgn

DAYTON AVE RAMP B DIKE SITE 4

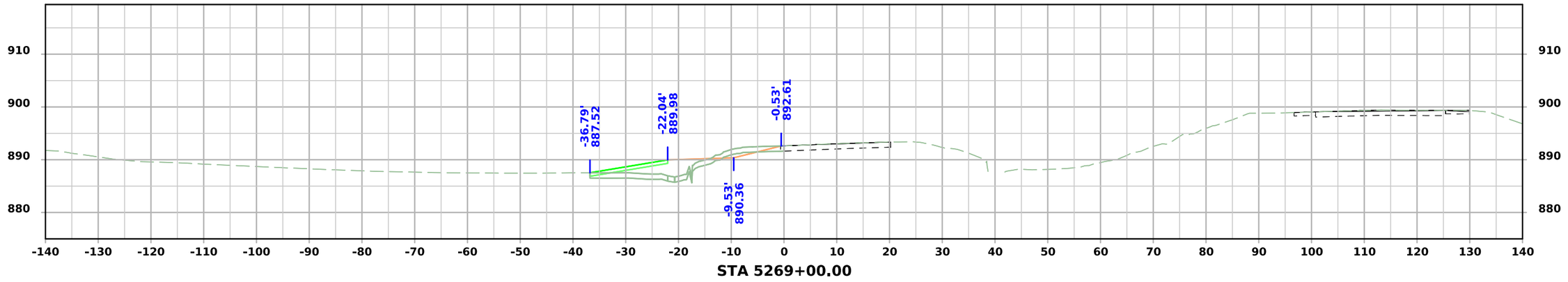


STA. 38+45.21

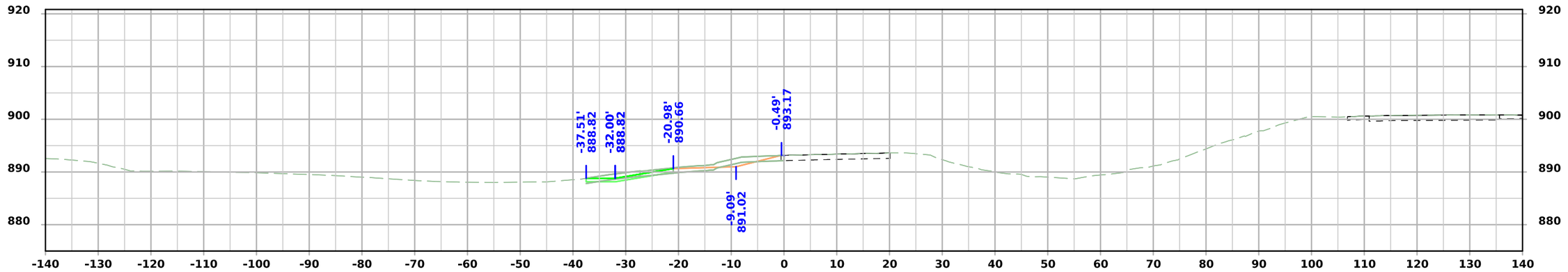
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER X.109	

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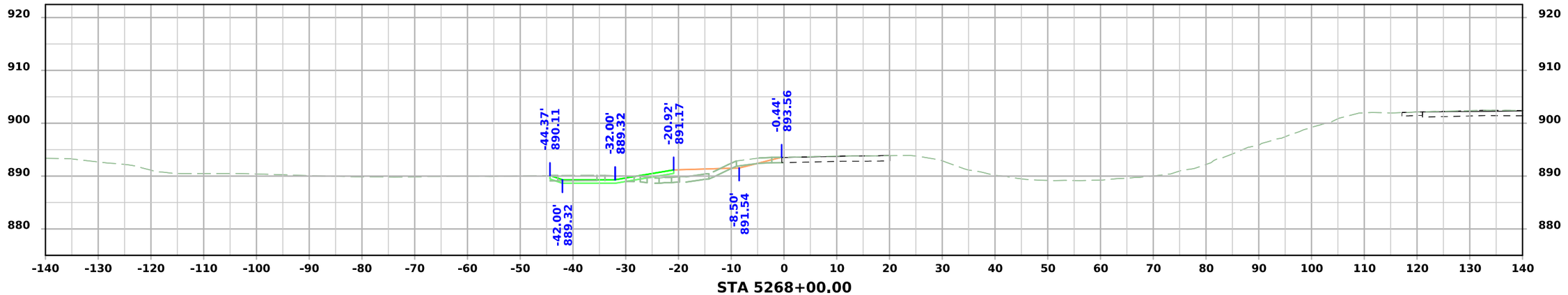
DUFF AVE RAMP A



STA 5269+00.00



STA 5268+50.00

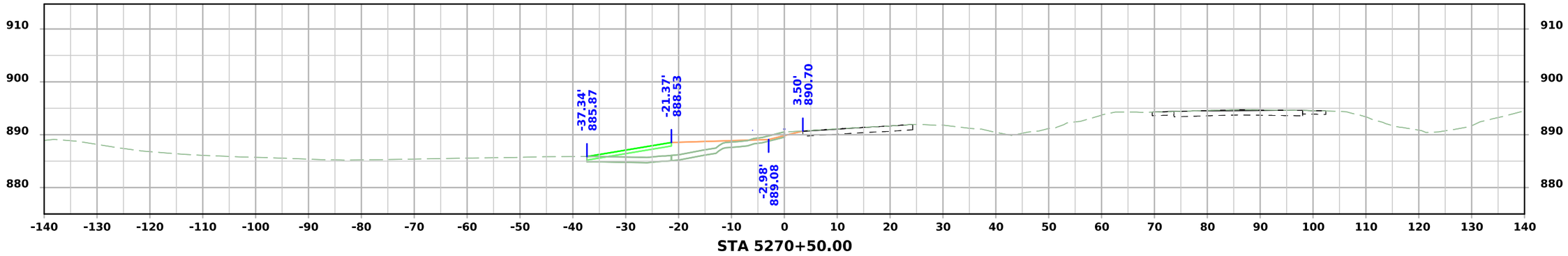


STA 5268+00.00

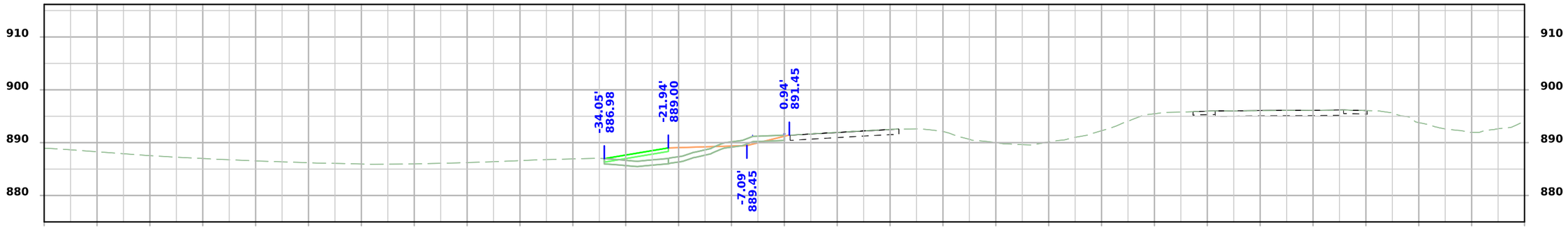
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.1

09:14:15 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP E_WHKS_85030271Z08.dgn

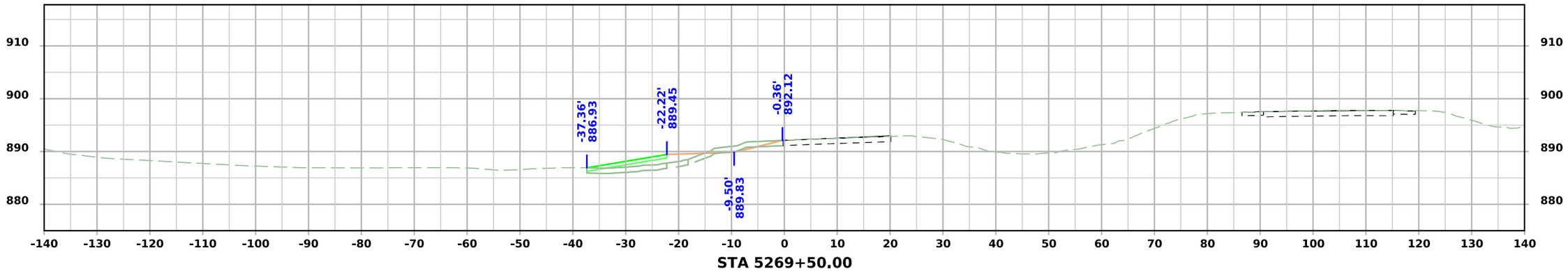
DUFF AVE RAMP A



STA 5270+50.00



STA 5270+00.00

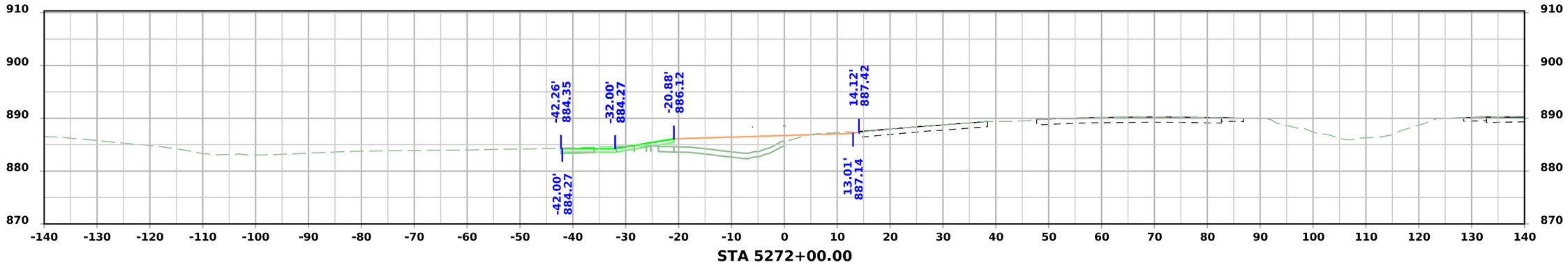


STA 5269+50.00

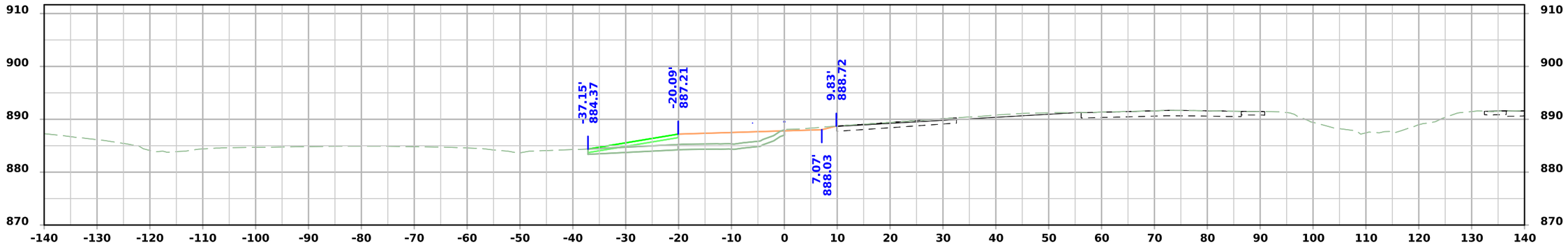
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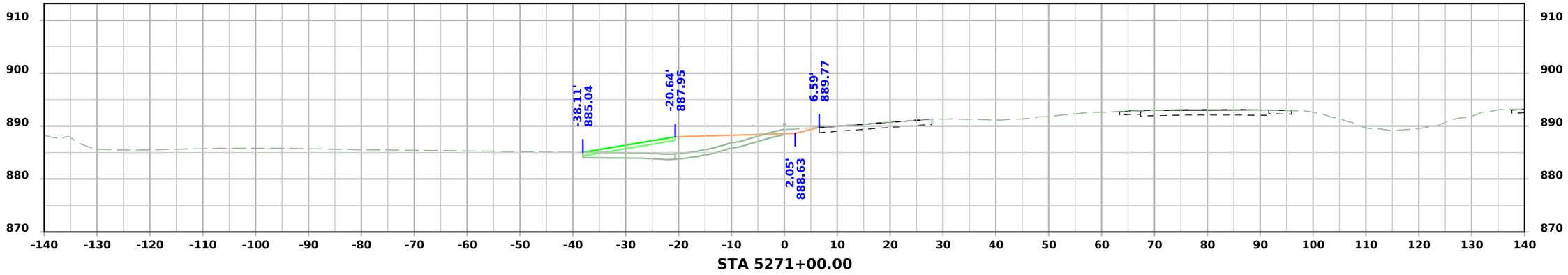
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STA 5272+00.00



STA 5271+50.00

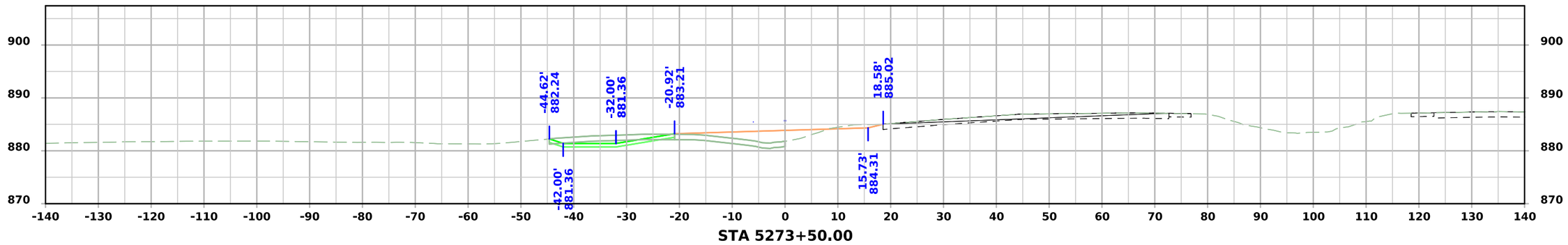


STA 5271+00.00

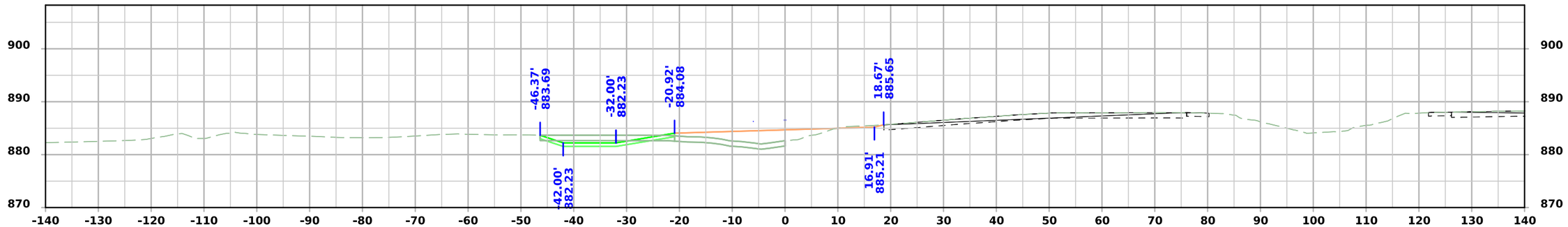
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.3	

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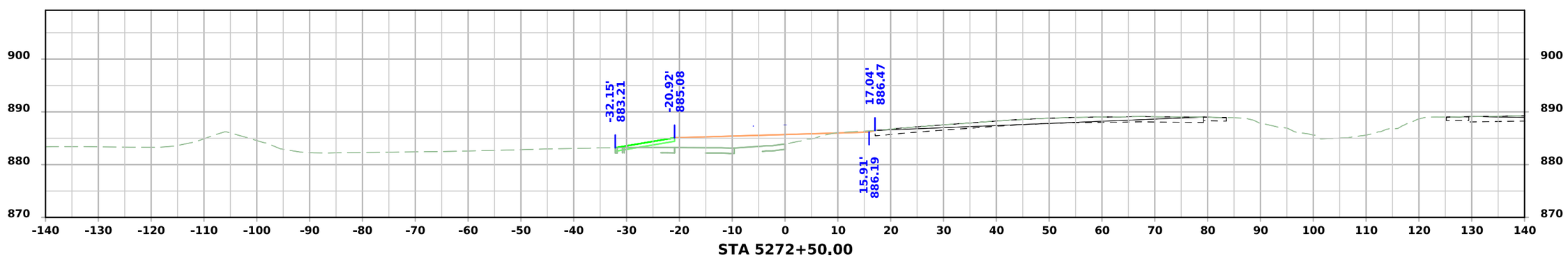
DUFF AVE RAMP A



STA 5273+50.00



STA 5273+00.00

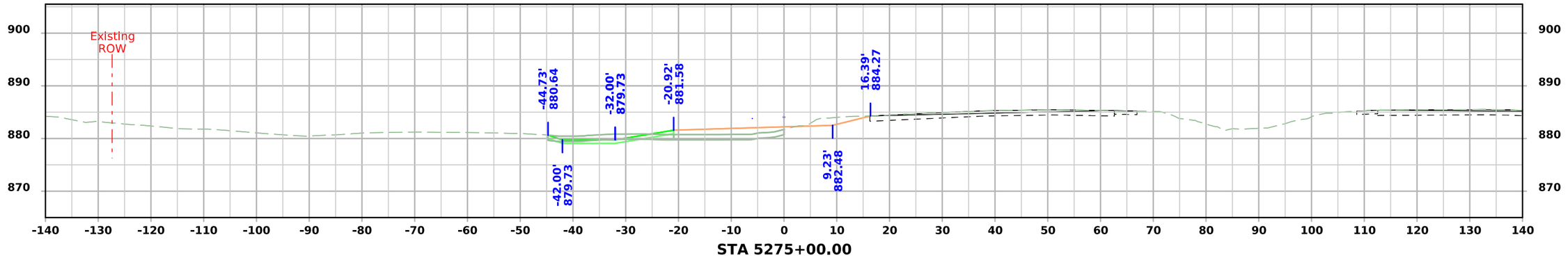


STA 5272+50.00

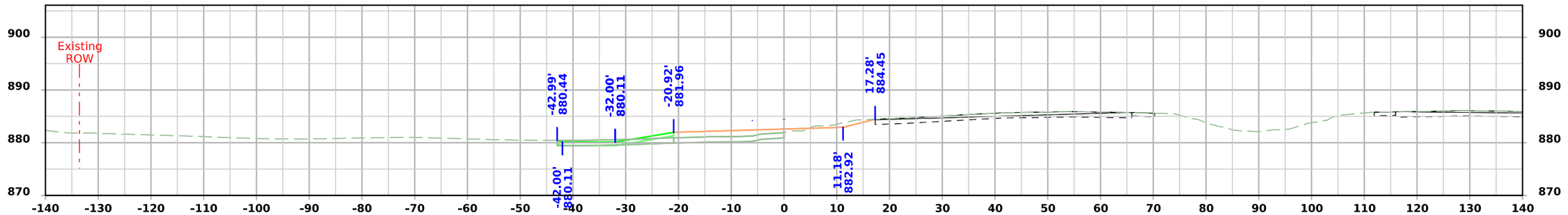
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09:14:40 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP E_WHKS_85030271Z08.dgn

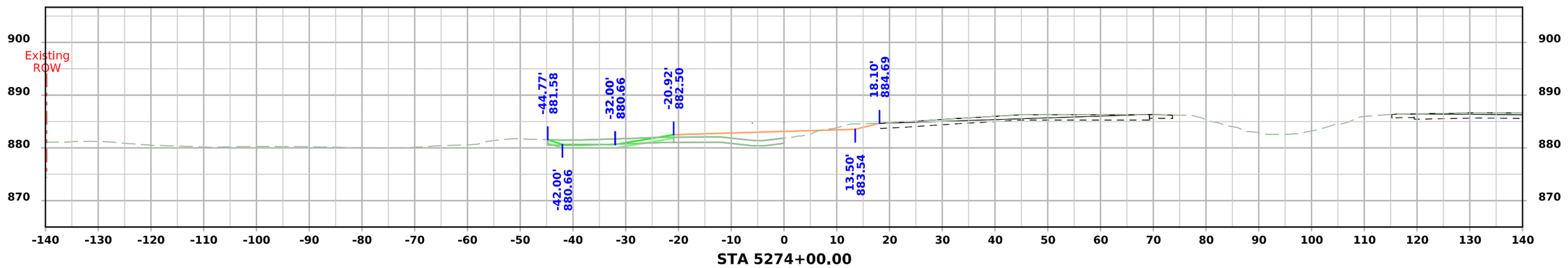
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STA 5275+00.00



STA 5274+50.00

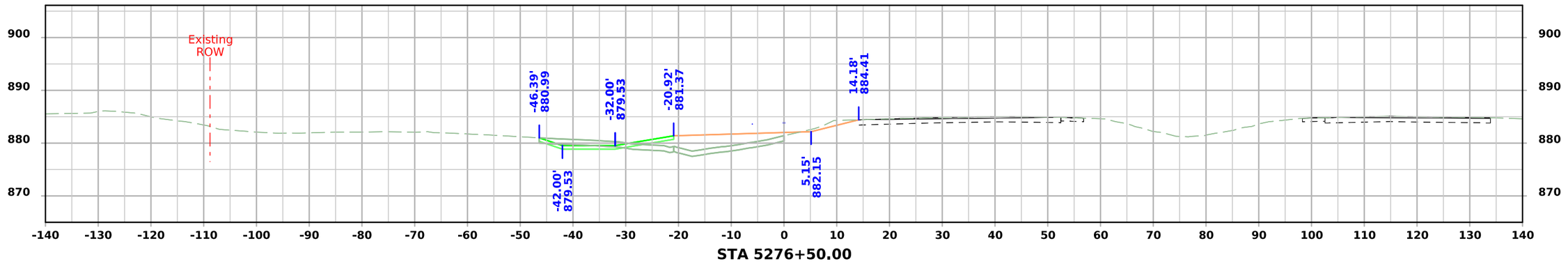


STA 5274+00.00

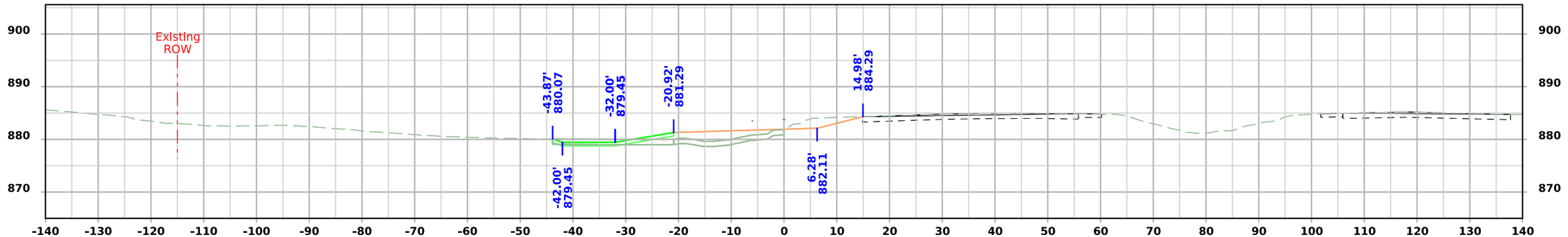
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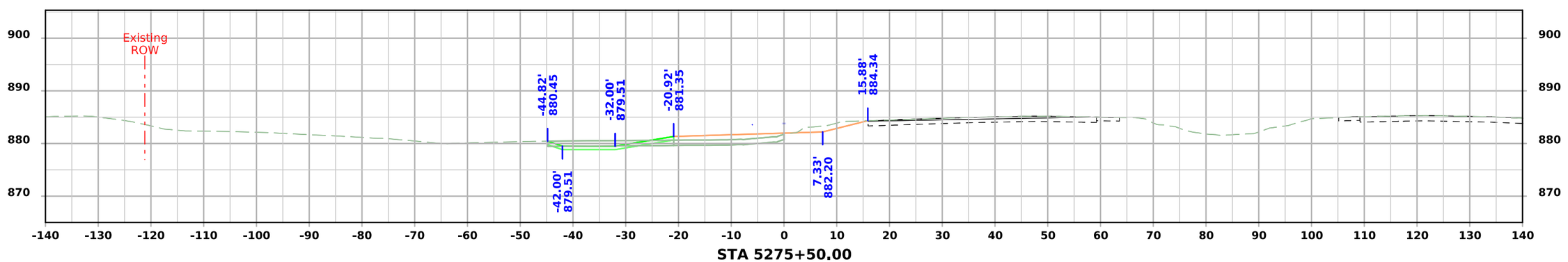
DUFF AVE RAMP A



STA 5276+50.00



STA 5276+00.00

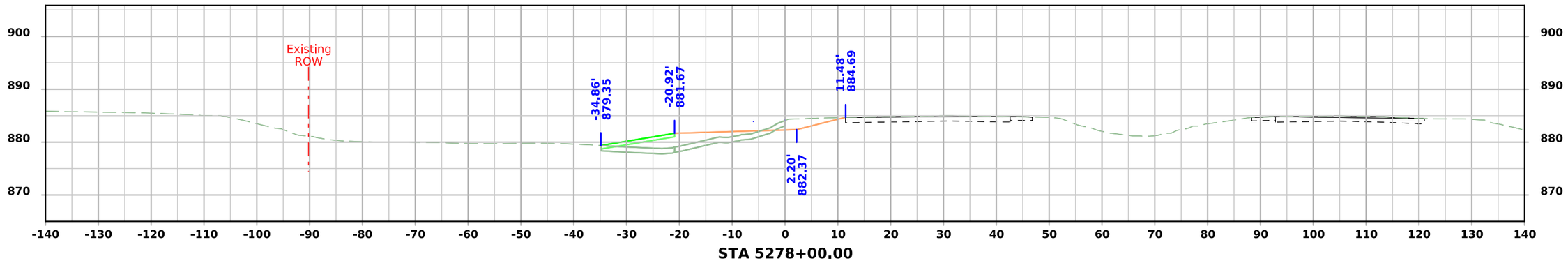


STA 5275+50.00

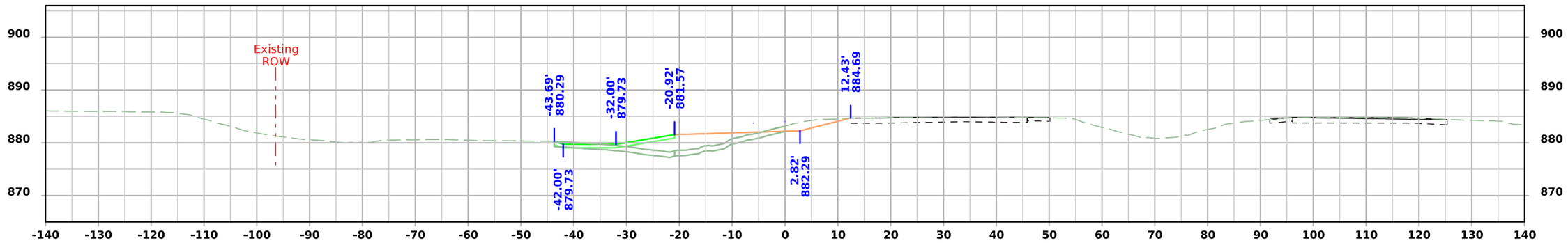
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.6	

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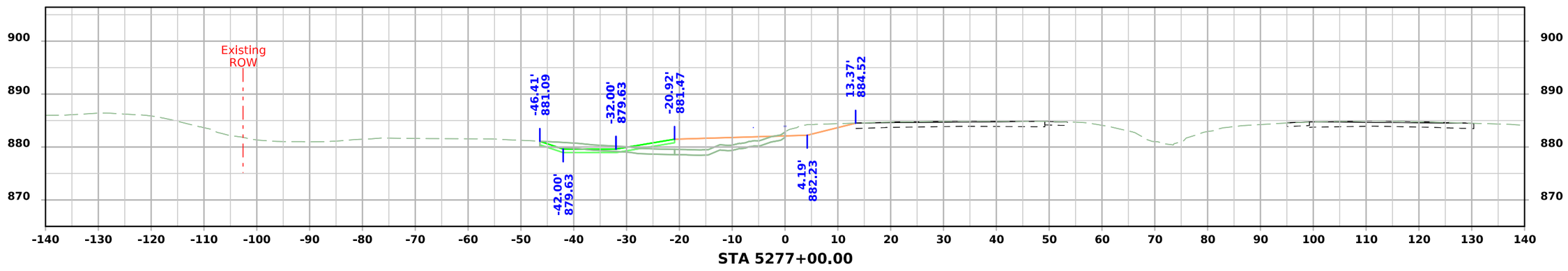
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STA 5278+00.00



STA 5277+50.00

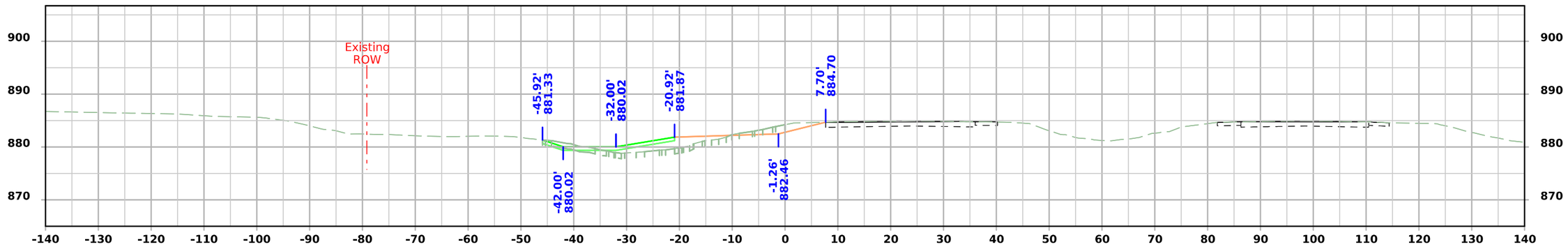


STA 5277+00.00

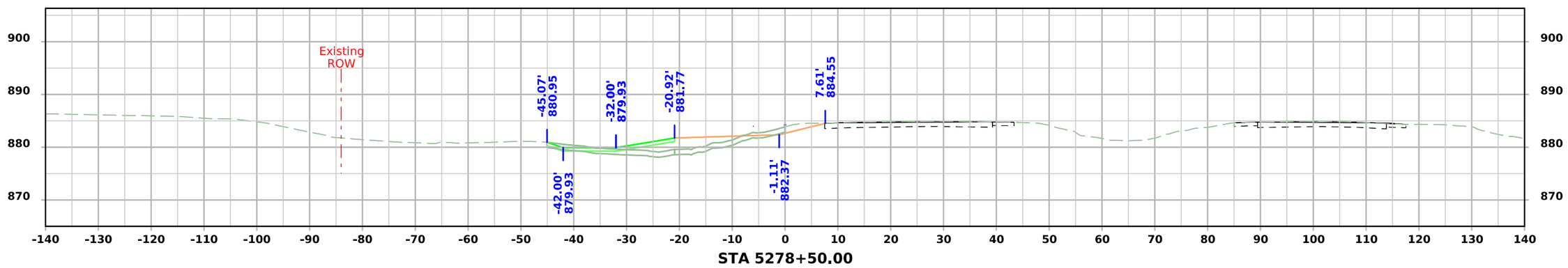
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DUFF AVE RAMP A



STA 5278+98.15

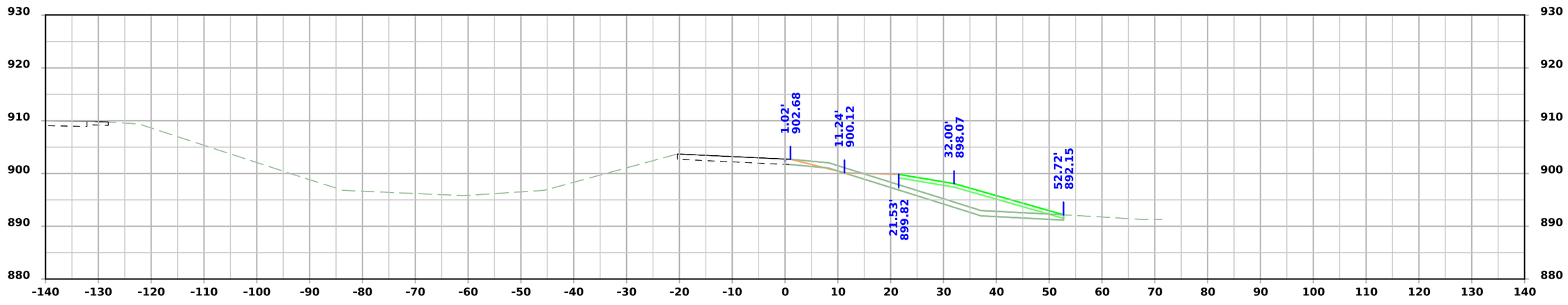


STA 5278+50.00

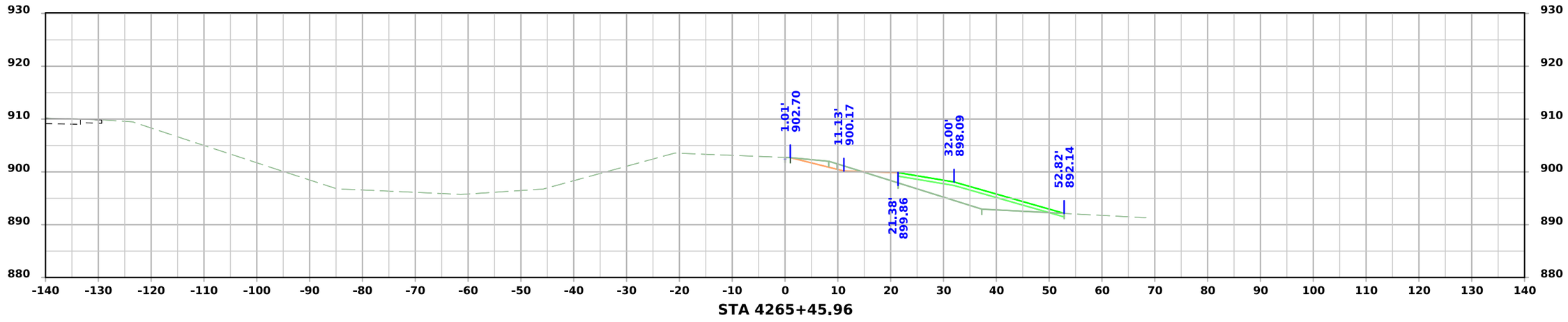
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DUFF AVE RAMP D



STA 4265+50.00

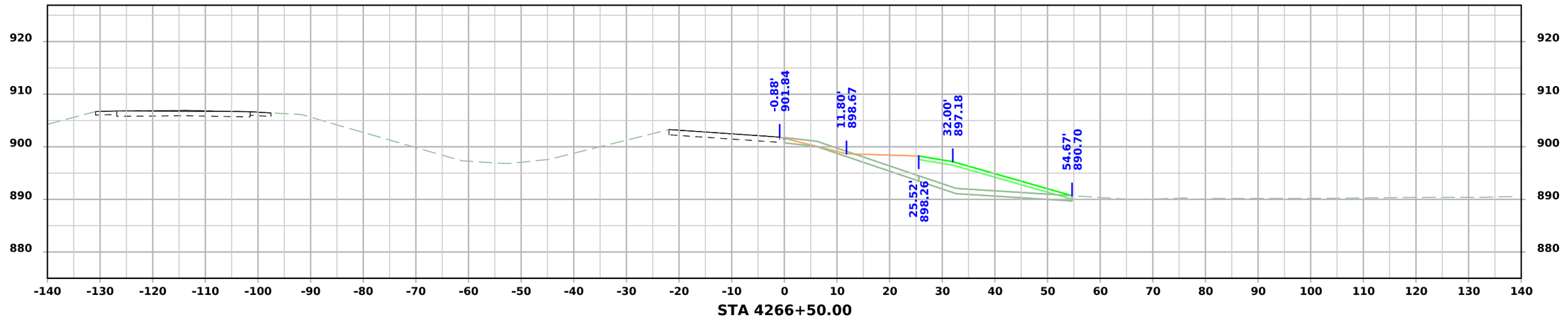


STA 4265+45.96

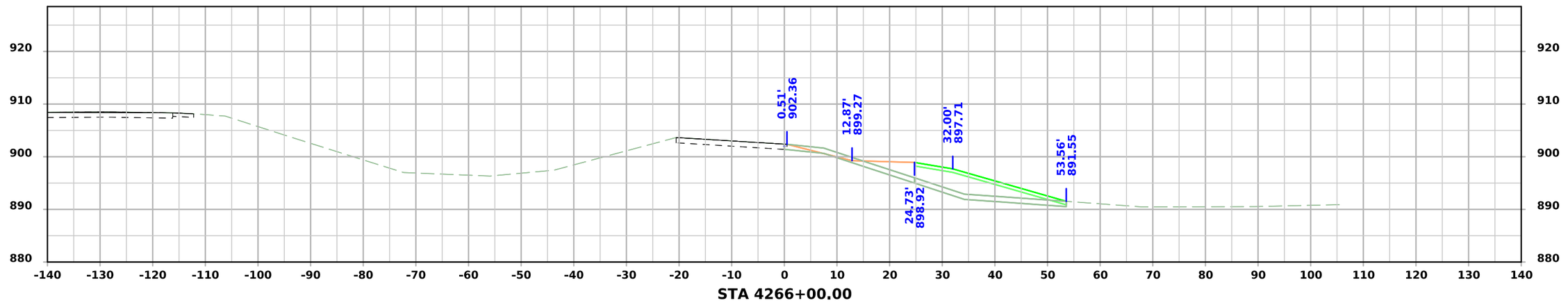
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.100

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DUFF AVE RAMP D



STA 4266+50.00

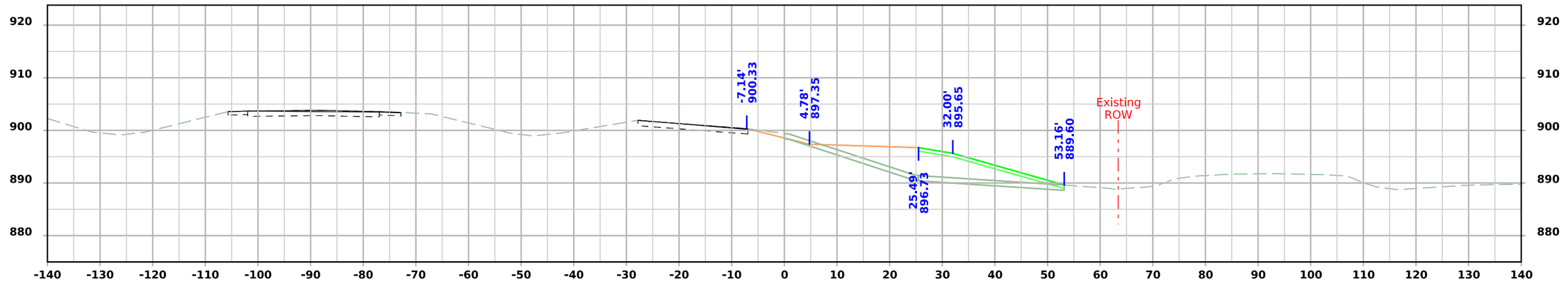


STA 4266+00.00

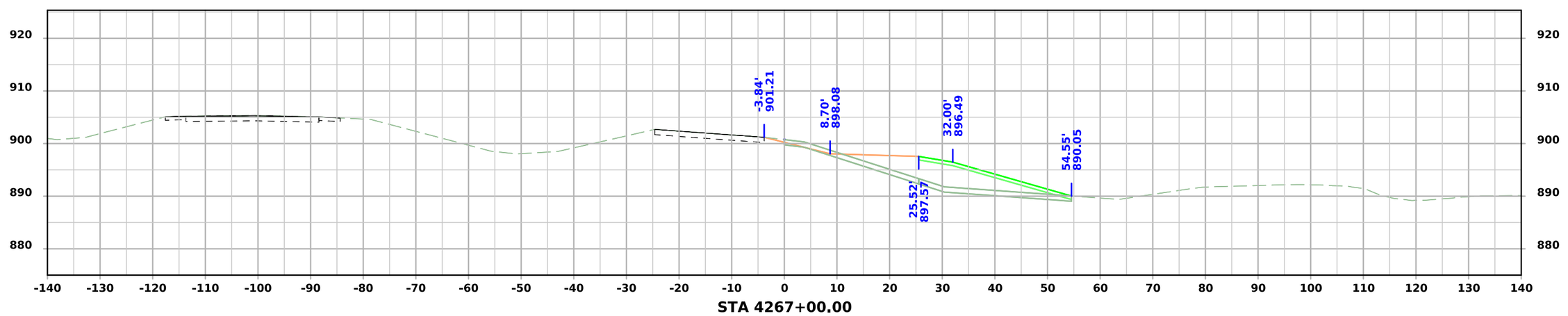
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DUFF AVE RAMP D



STA 4267+50.00

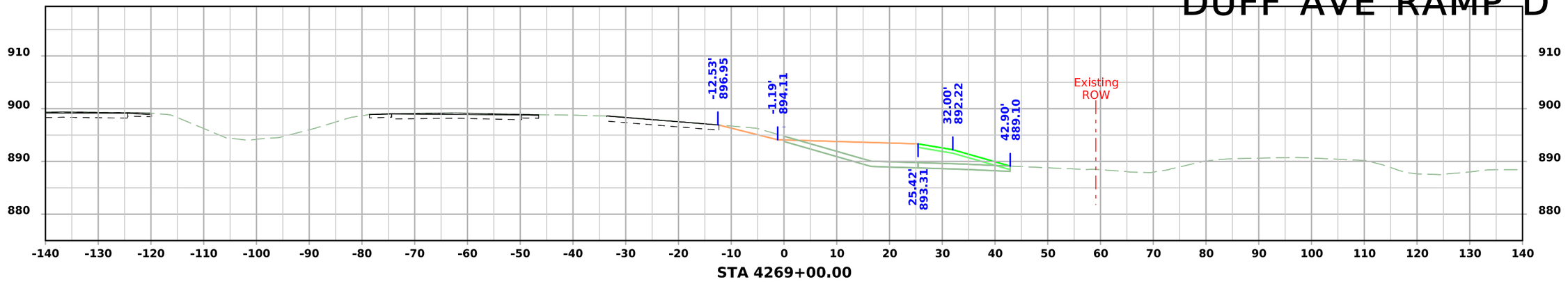


STA 4267+00.00

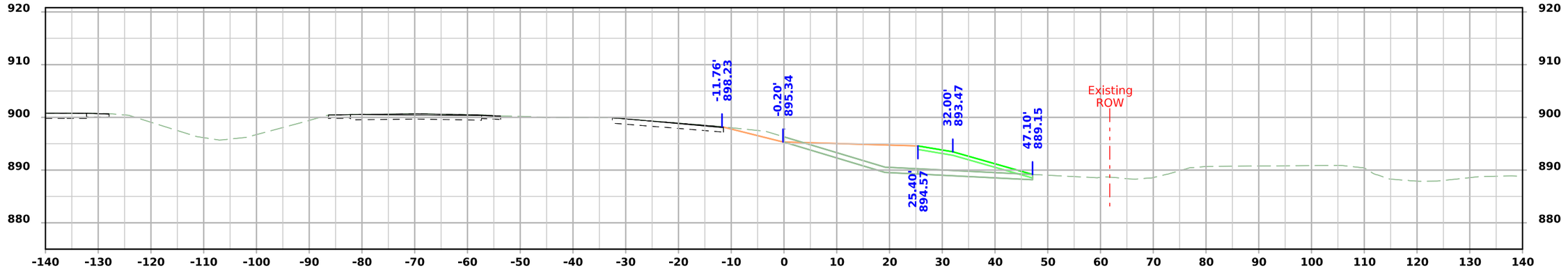
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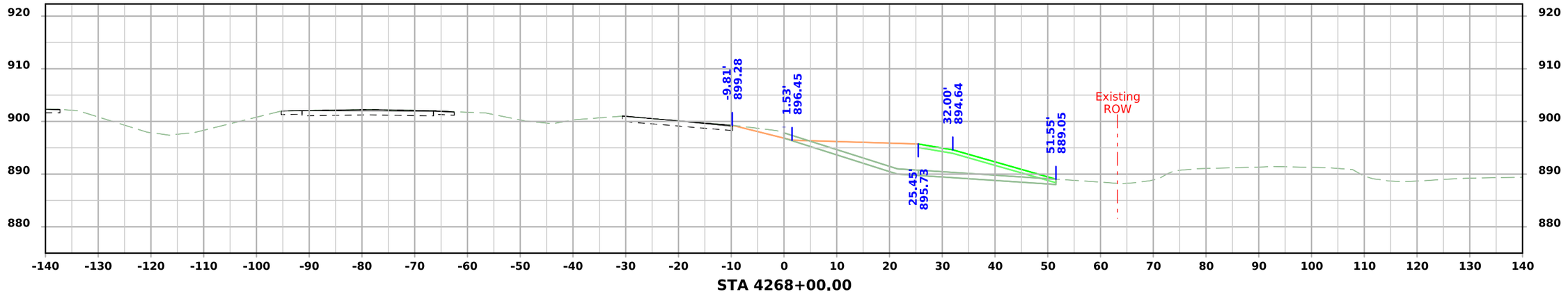
DUFF AVE RAMP D



STA 4269+00.00



STA 4268+50.00

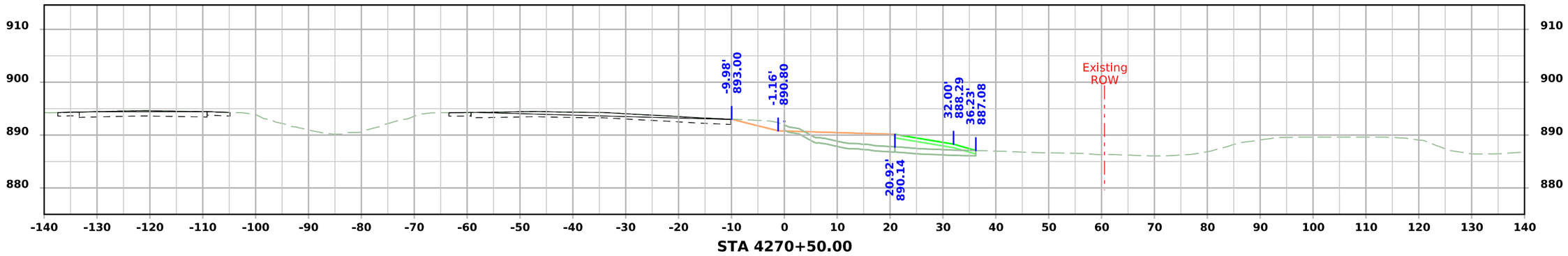


STA 4268+00.00

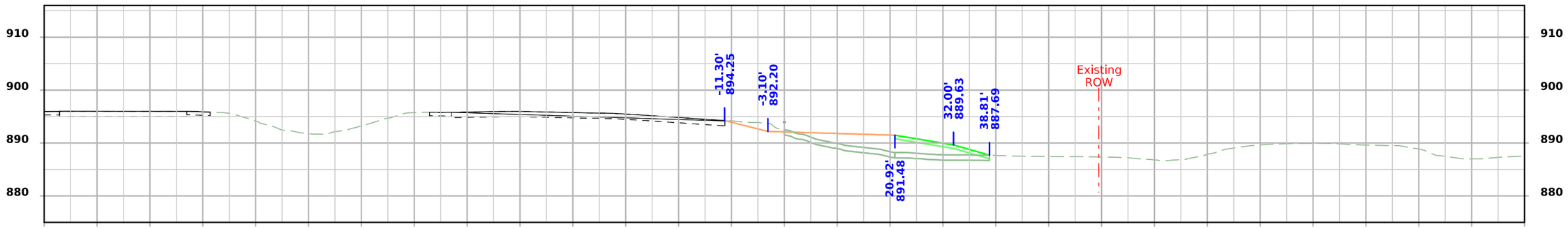
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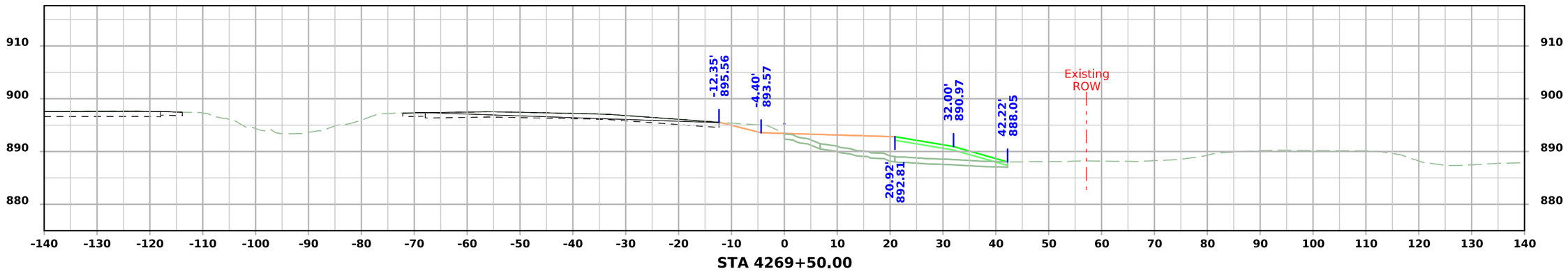
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STA 4270+50.00



STA 4270+00.00

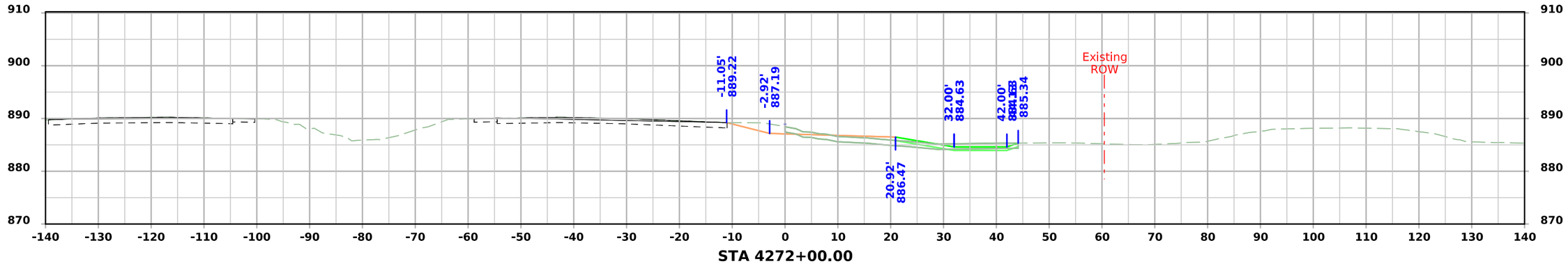


STA 4269+50.00

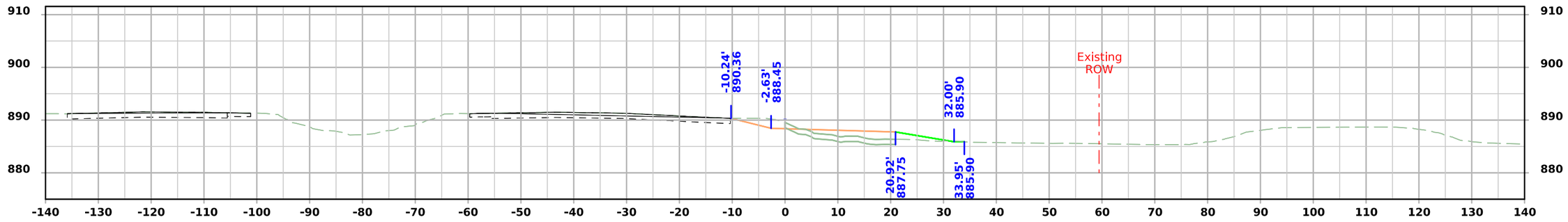
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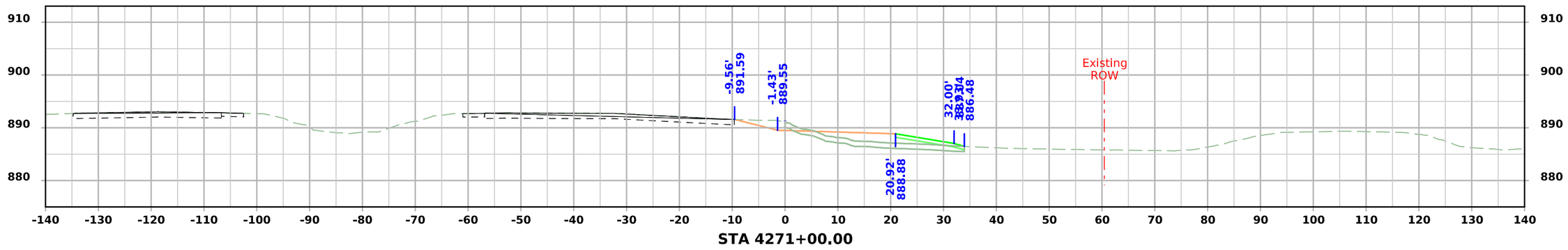
DUFF AVE RAMP D



STA 4272+00.00



STA 4271+50.00

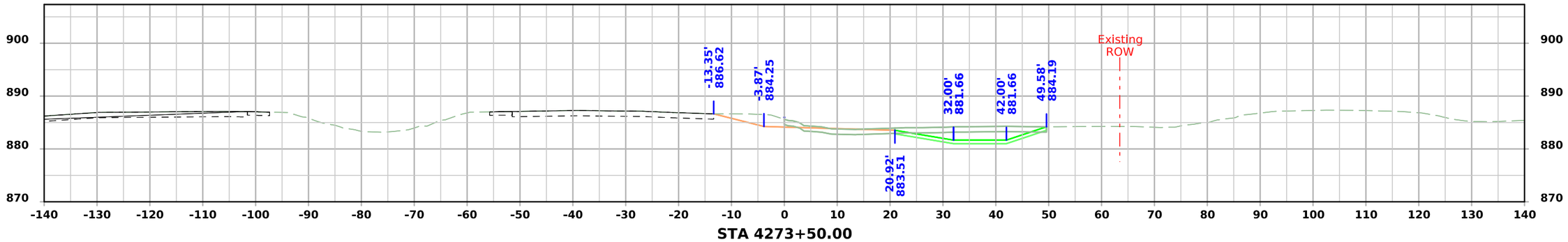


STA 4271+00.00

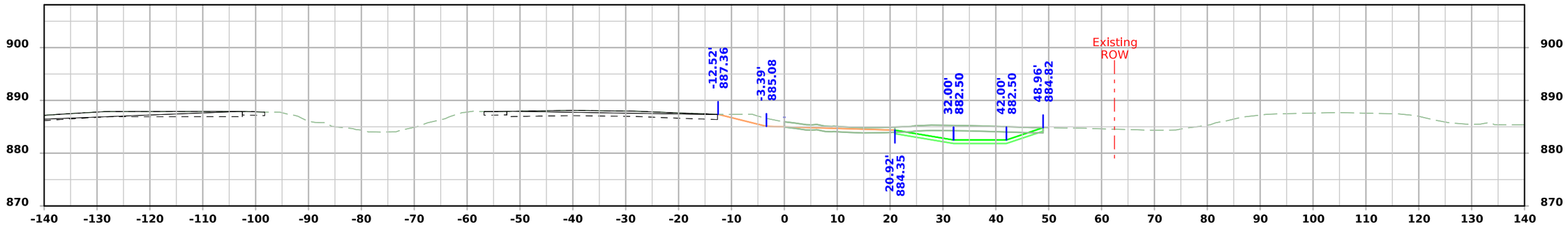
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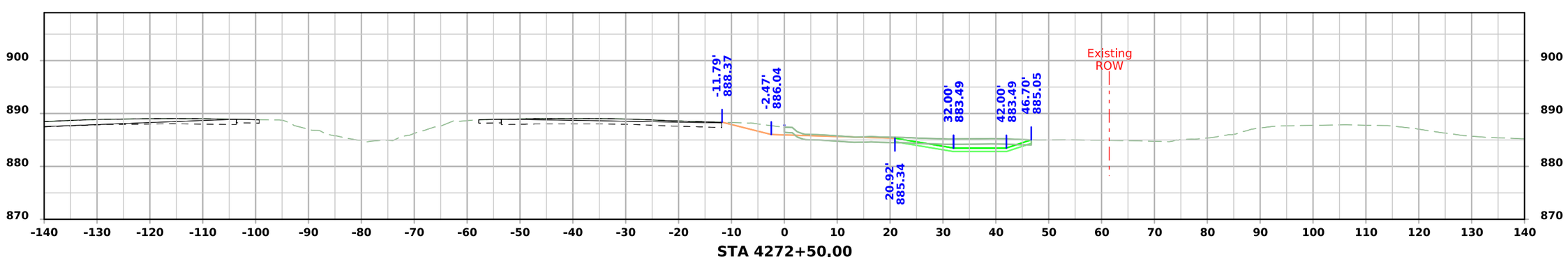
DUFF AVE RAMP D



STA 4273+50.00



STA 4273+00.00

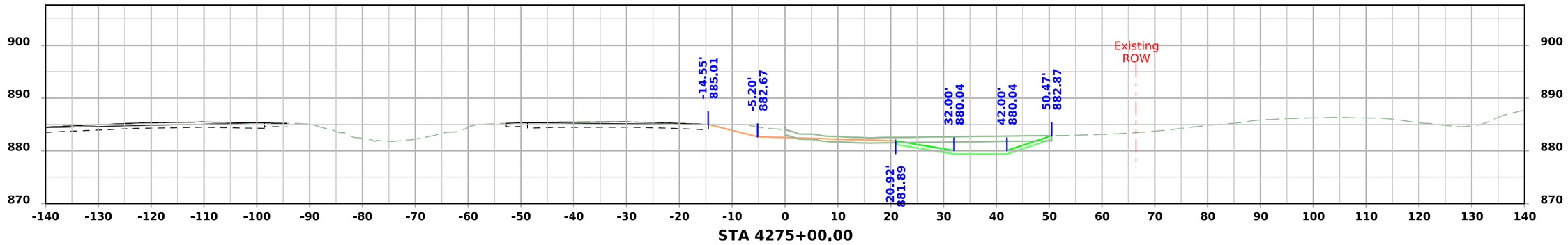


STA 4272+50.00

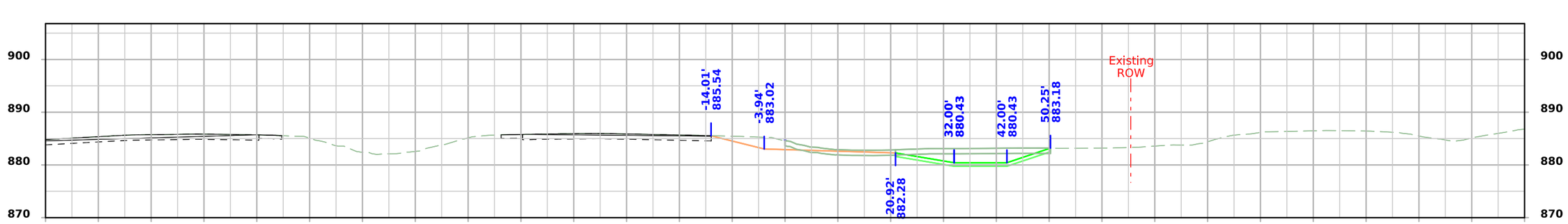
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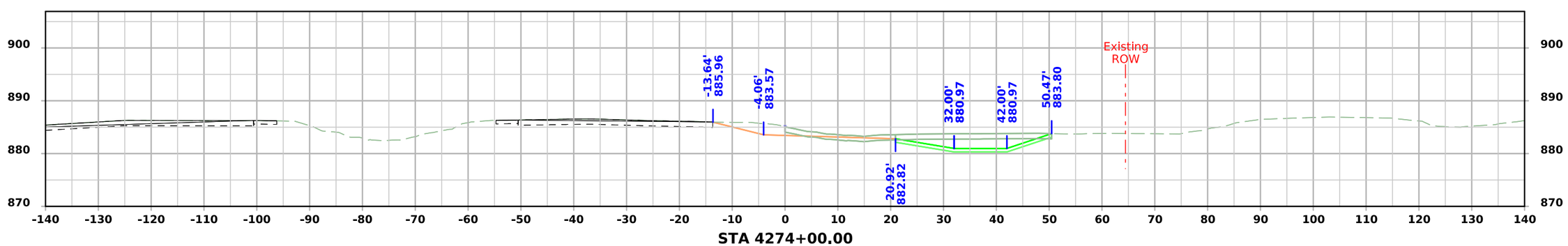
DUFF AVE RAMP D



STA 4275+00.00



STA 4274+50.00

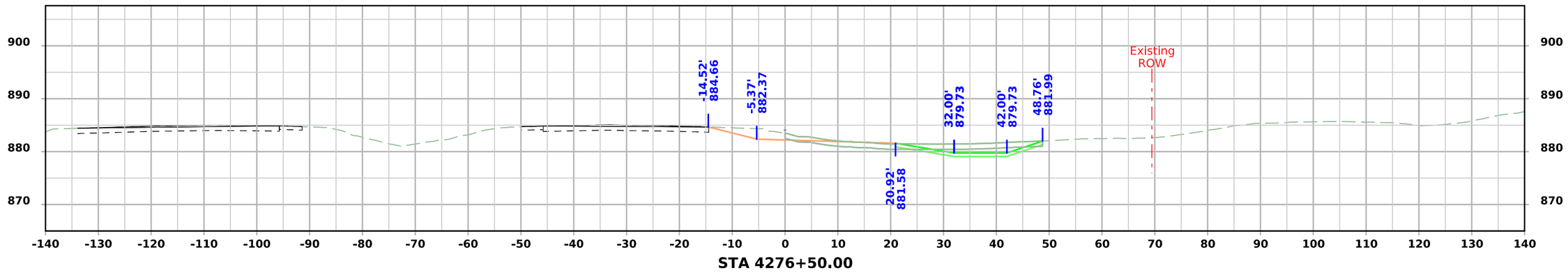


STA 4274+00.00

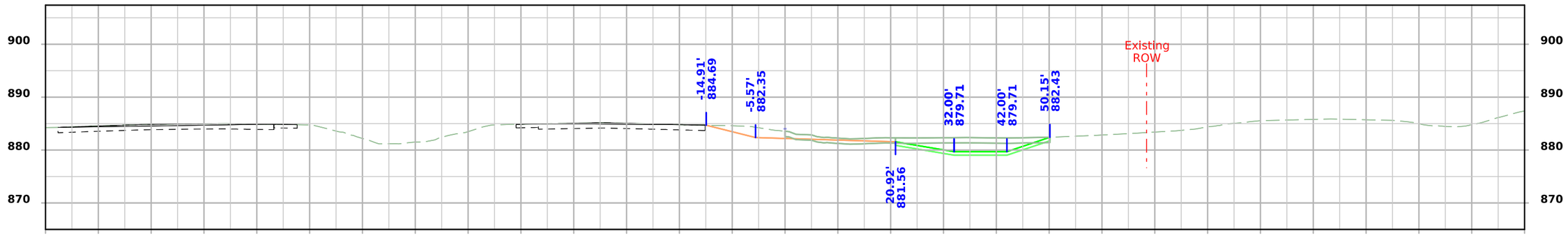
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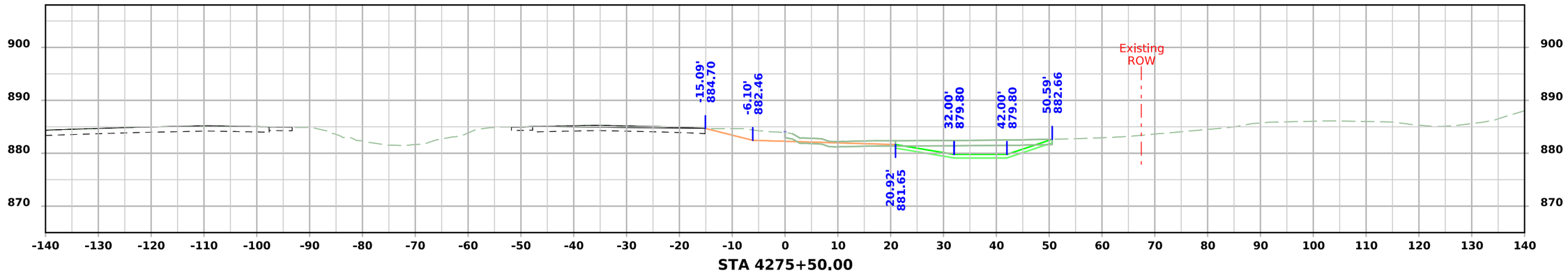
DUFF AVE RAMP D



STA 4276+50.00



STA 4276+00.00

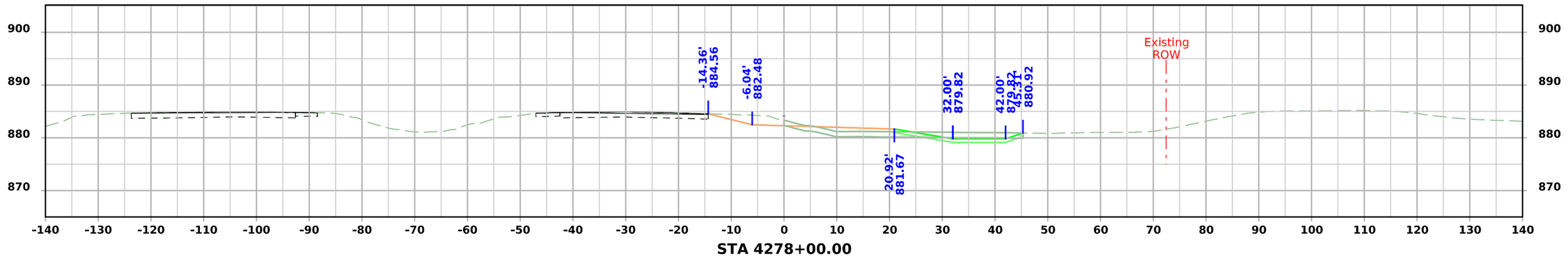


STA 4275+50.00

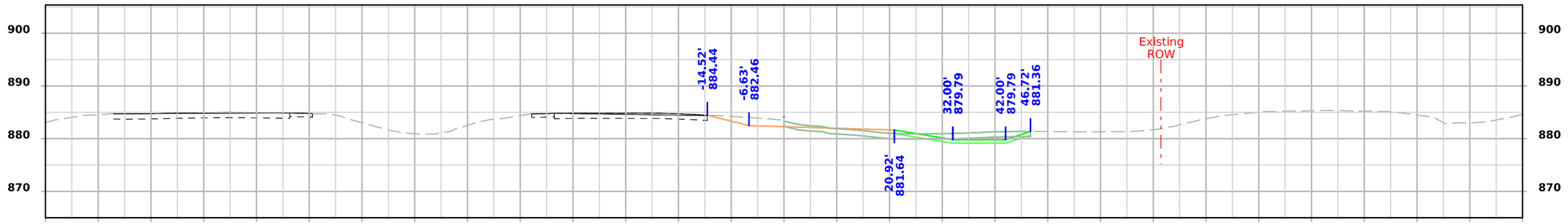
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.108

09:16:36 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP D_WHKS_85030271Z08.dgn

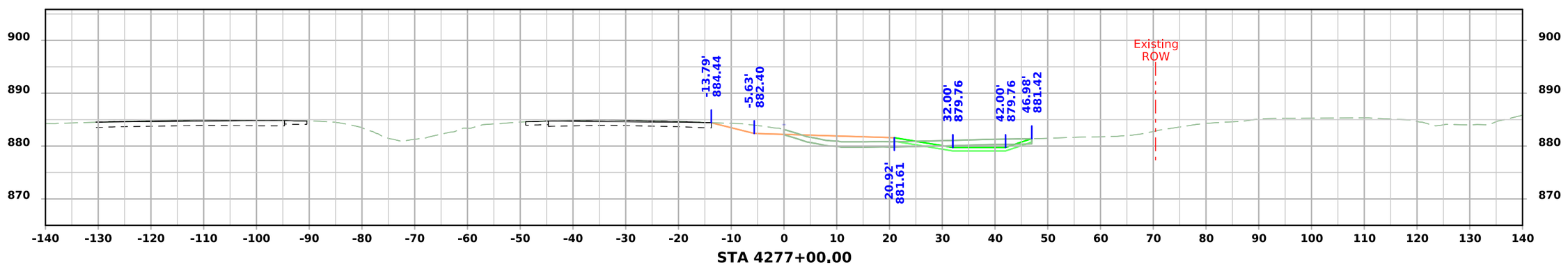
DUFF AVE RAMP D



STA 4278+00.00



STA 4277+50.00

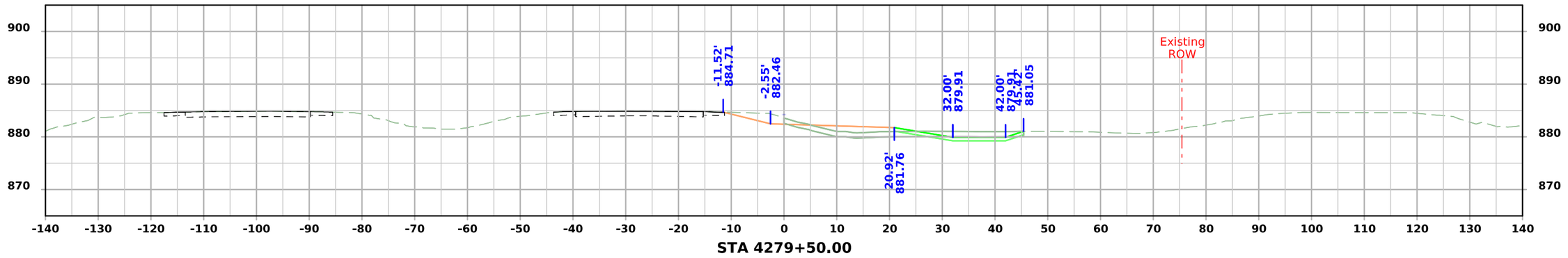


STA 4277+00.00

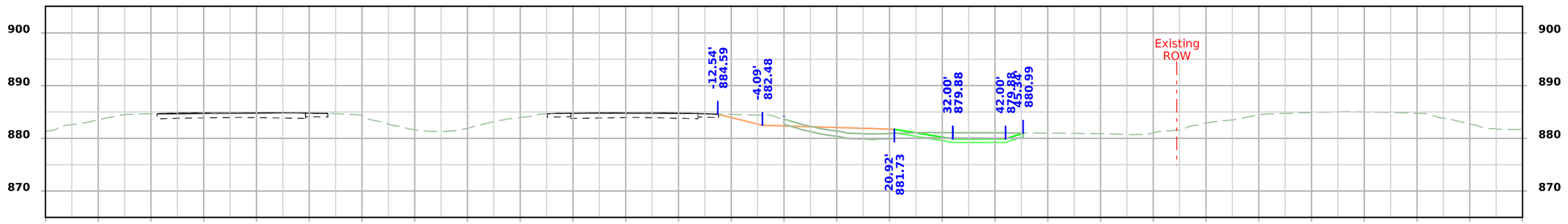
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09:16:39 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP D_WHKS_85030271Z08.dgn

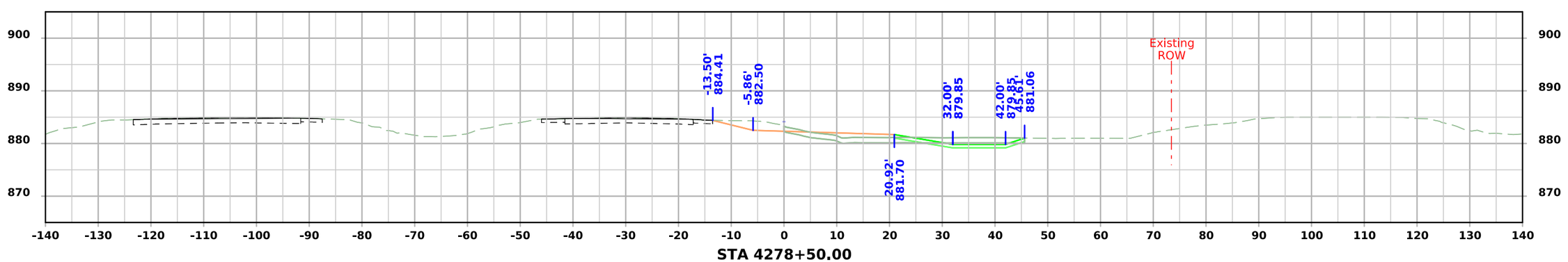
DUFF AVE RAMP D



STA 4279+50.00



STA 4279+00.00

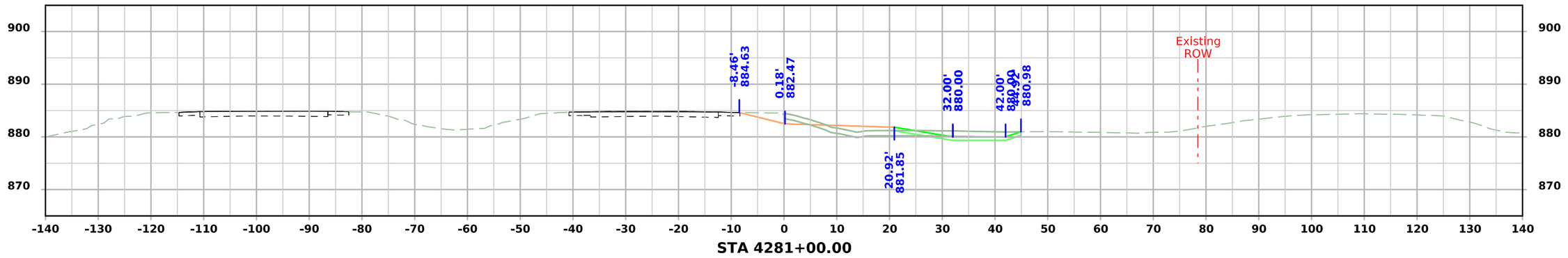


STA 4278+50.00

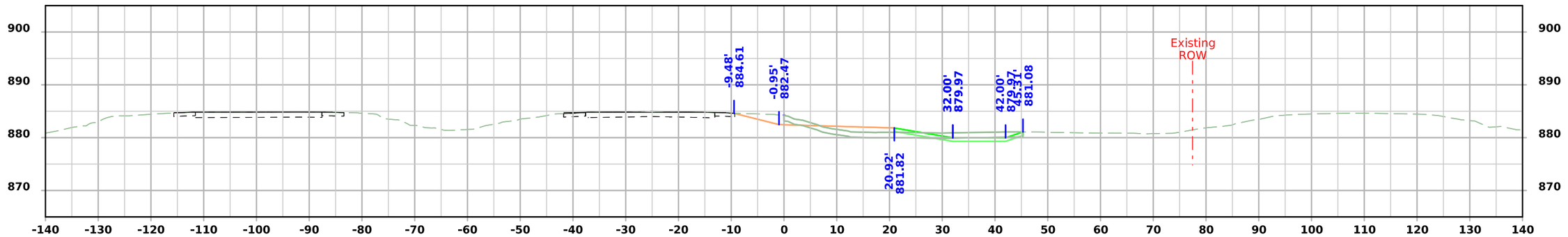
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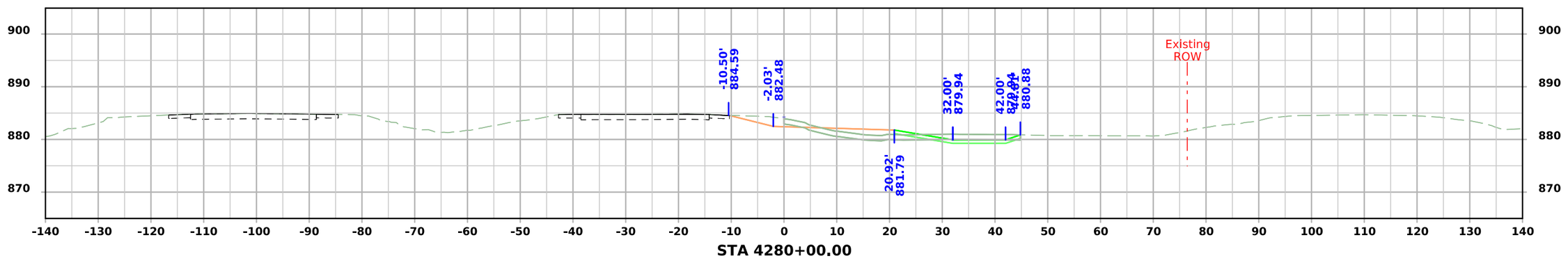
DUFF AVE RAMP D



STA 4281+00.00



STA 4280+50.00

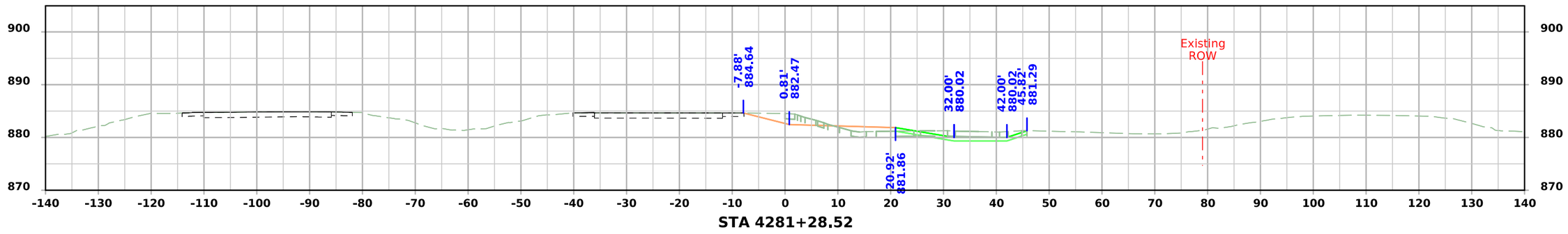


STA 4280+00.00

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.111

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DUFF AVE RAMP D

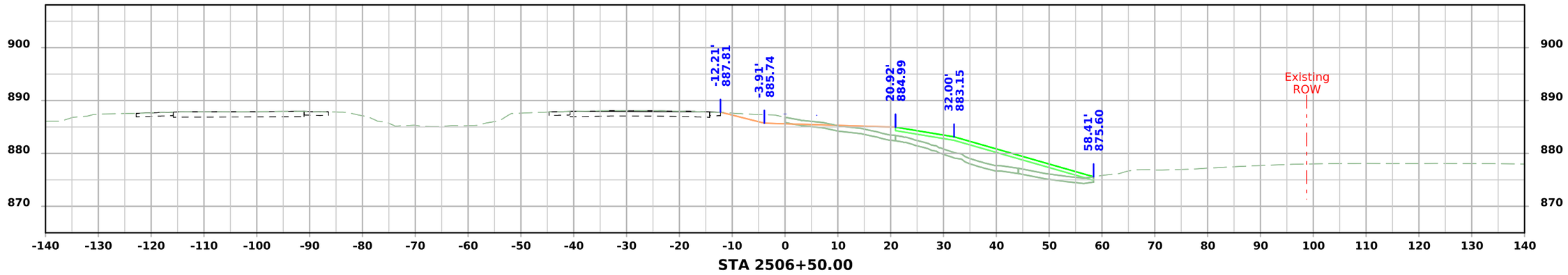


STA 4281+28.52

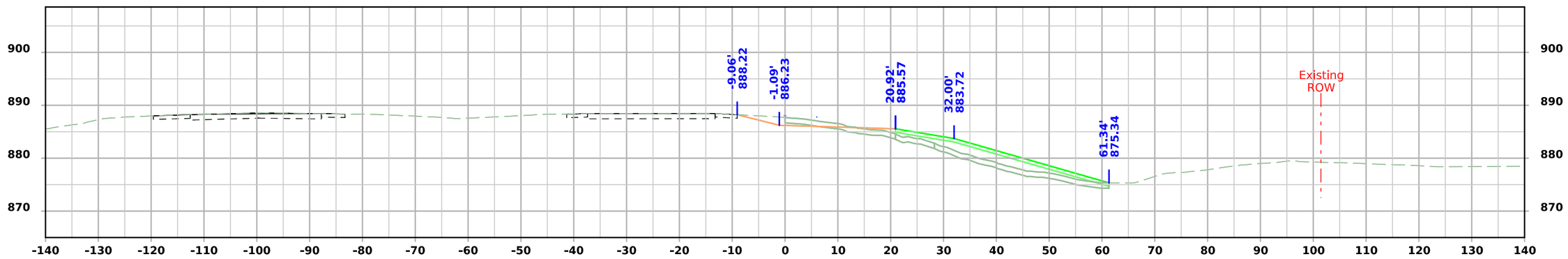
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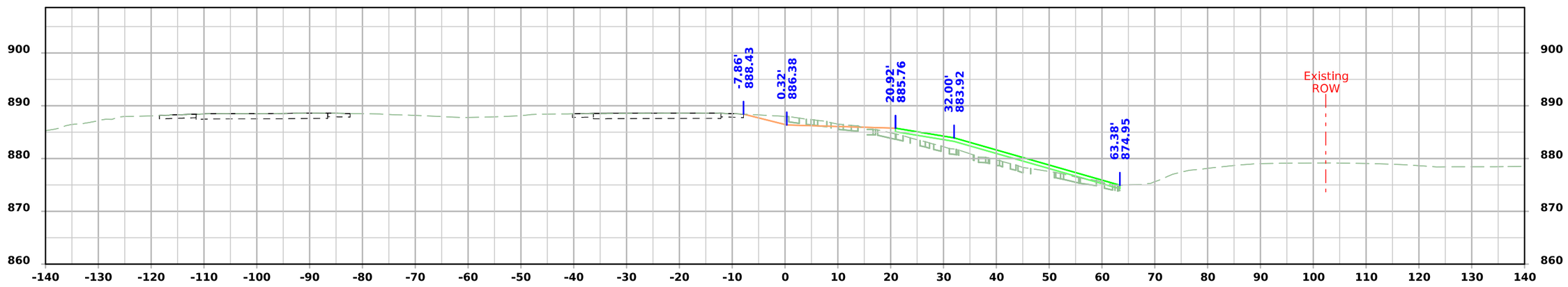
DAYTON AVE RAMP B



STA 2506+50.00



STA 2506+00.00

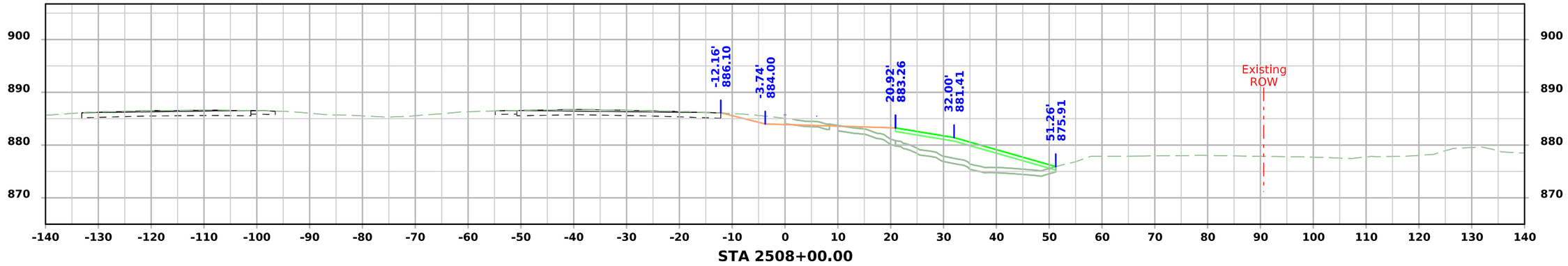


STA 2505+83.25

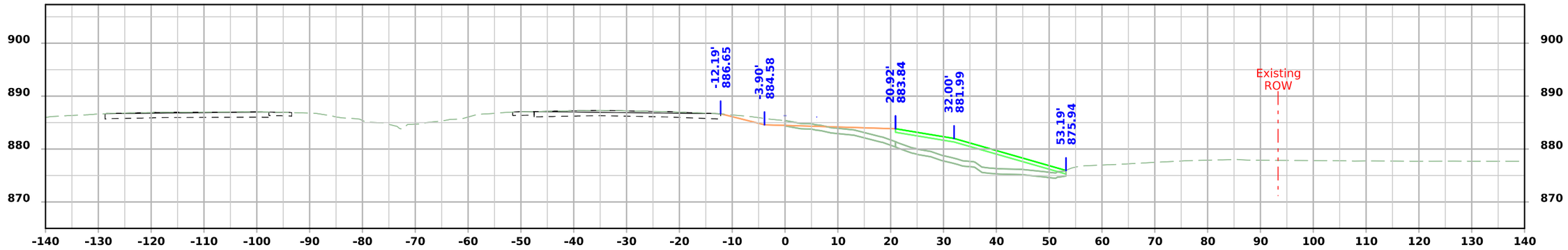
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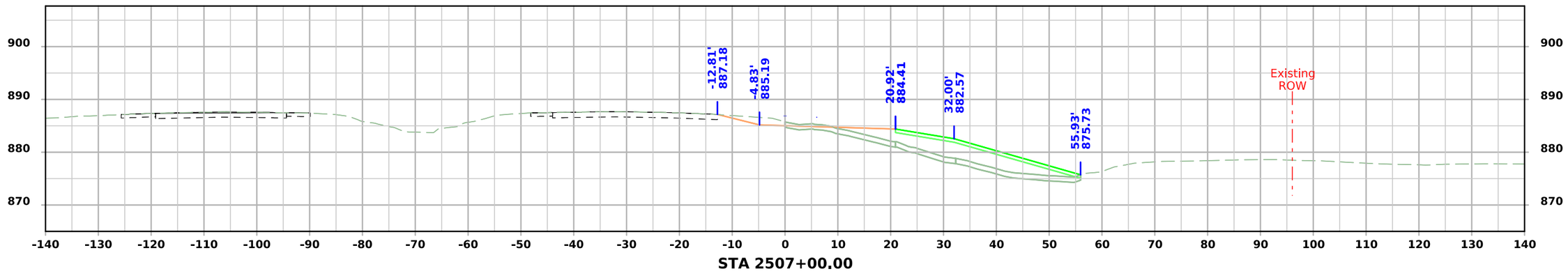
DAYTON AVE RAMP B



STA 2508+00.00



STA 2507+50.00

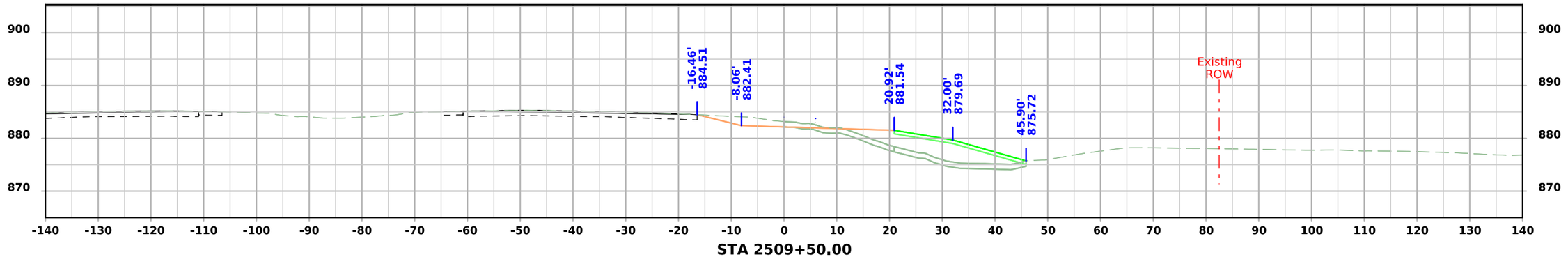


STA 2507+00.00

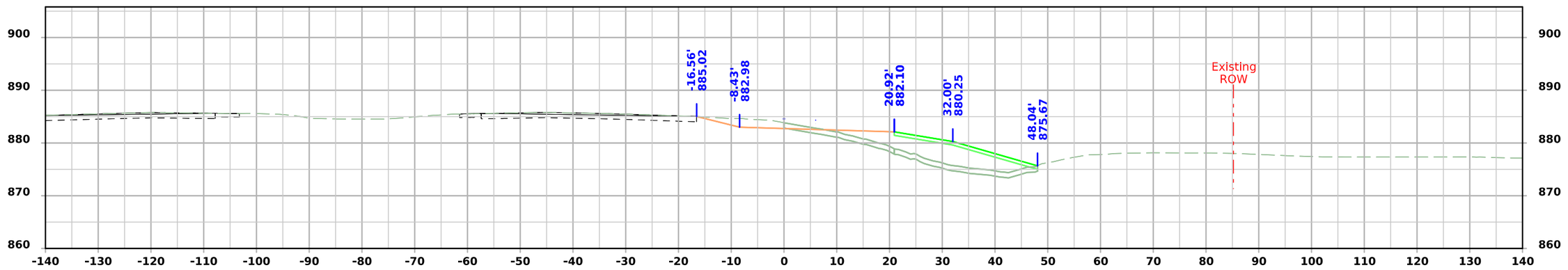
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.201

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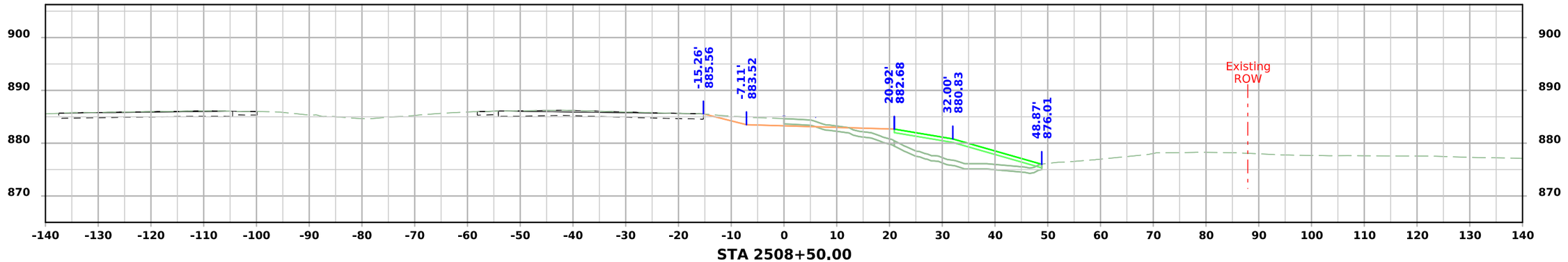
DAYTON AVE RAMP B



STA 2509+50.00



STA 2509+00.00

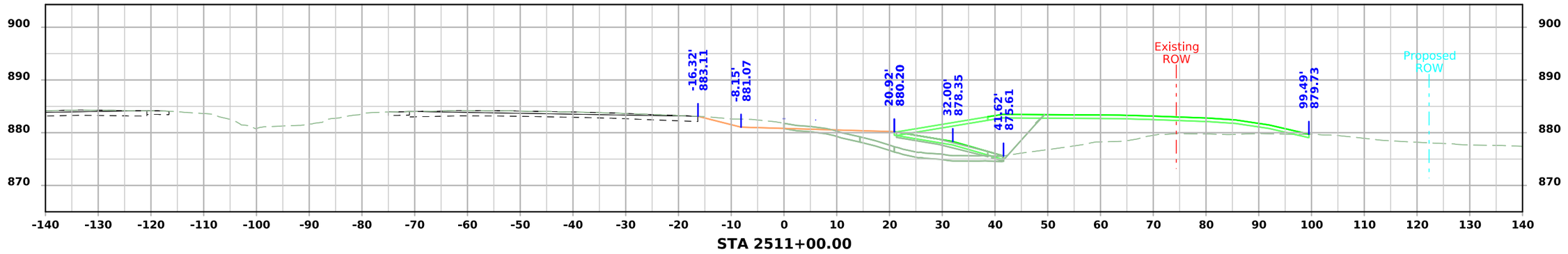


STA 2508+50.00

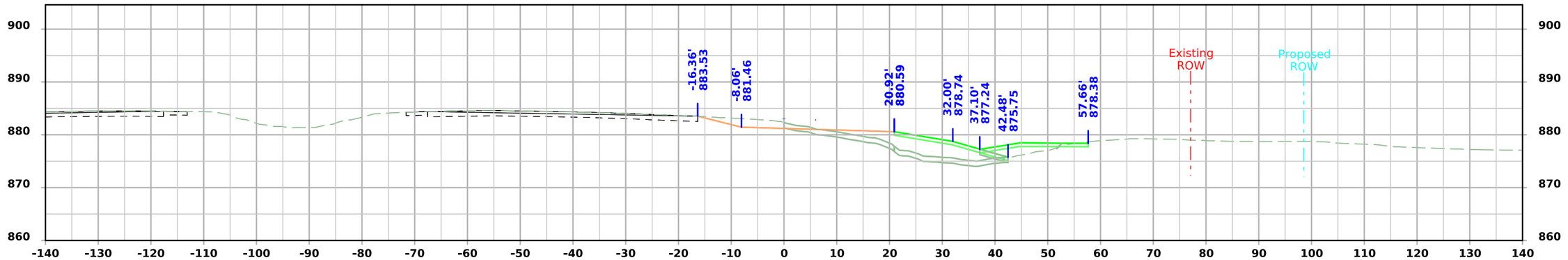
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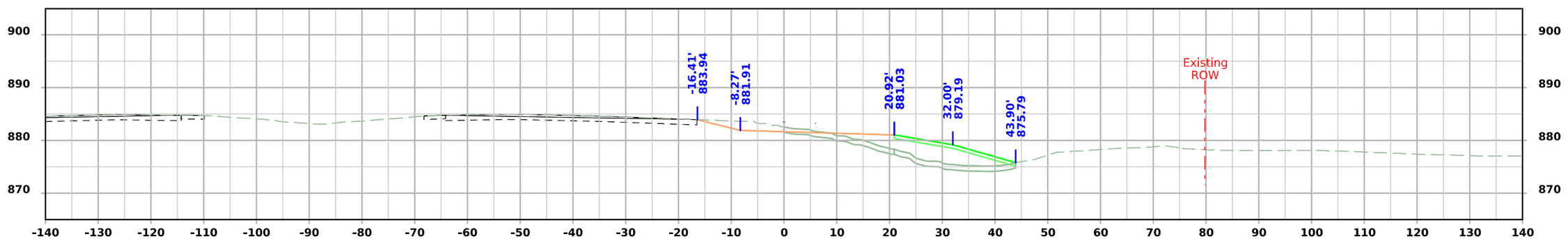
DAYTON AVE RAMP B



STA 2511+00.00



STA 2510+50.00

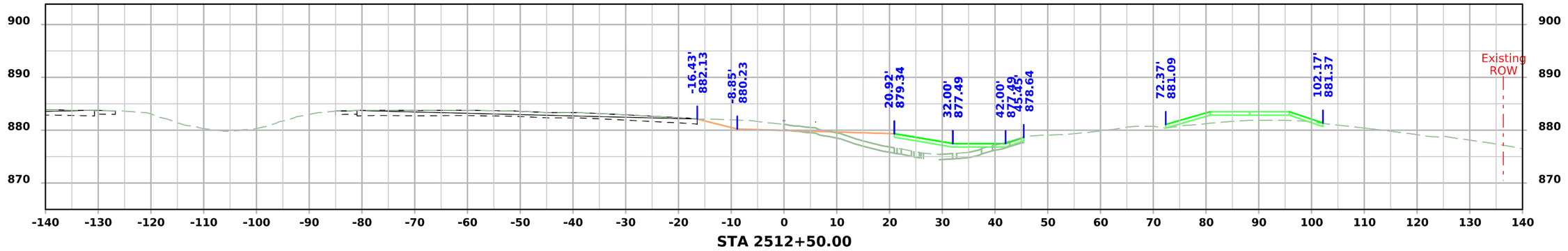


STA 2510+00.00

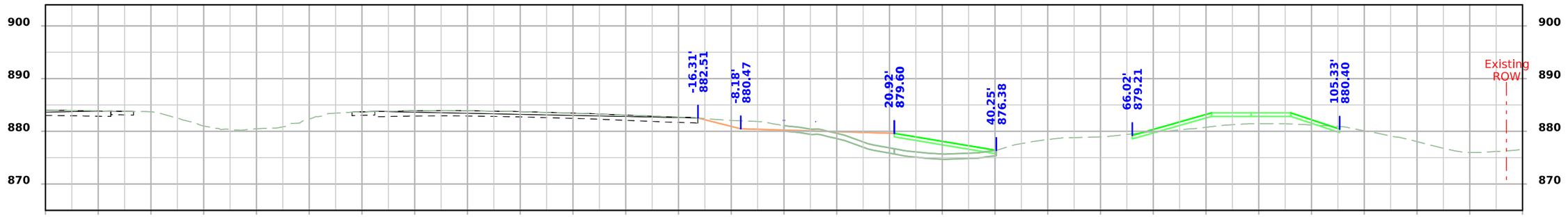
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.203

09:17:50 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP A_WHKS_85030271Z08.dgn

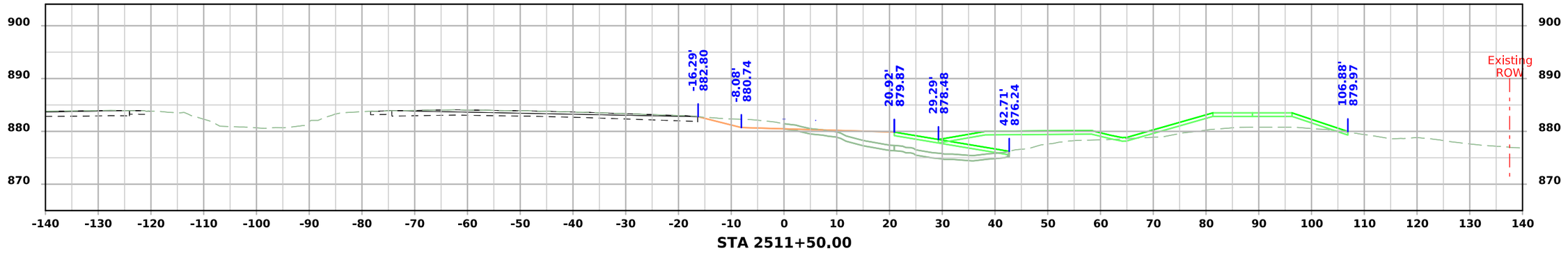
DAYTON AVE RAMP B



STA 2512+50.00



STA 2512+00.00

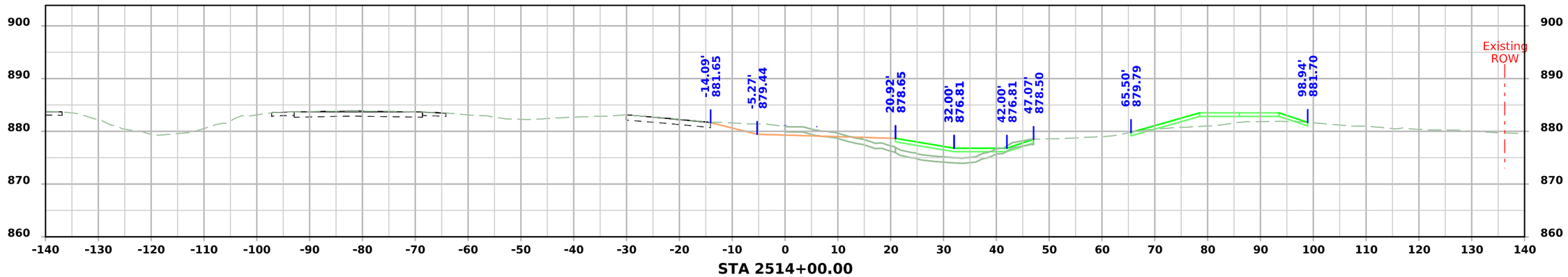


STA 2511+50.00

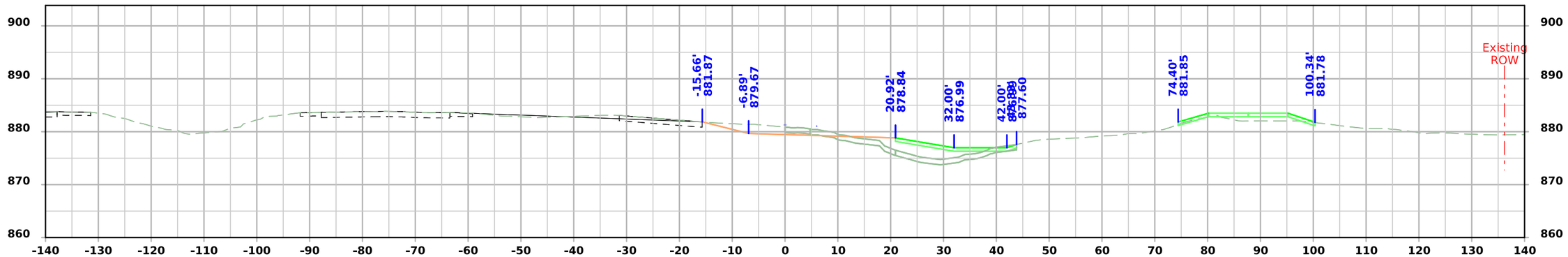
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.204

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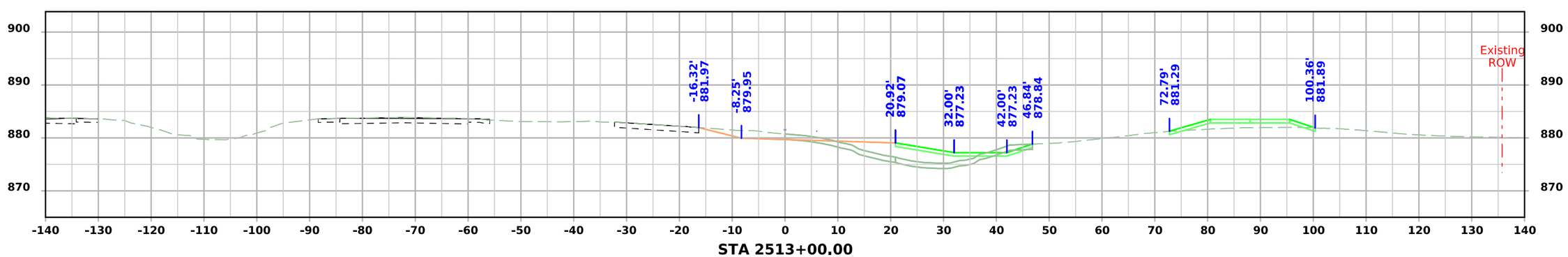
DAYTON AVE RAMP B



STA 2514+00.00



STA 2513+50.00

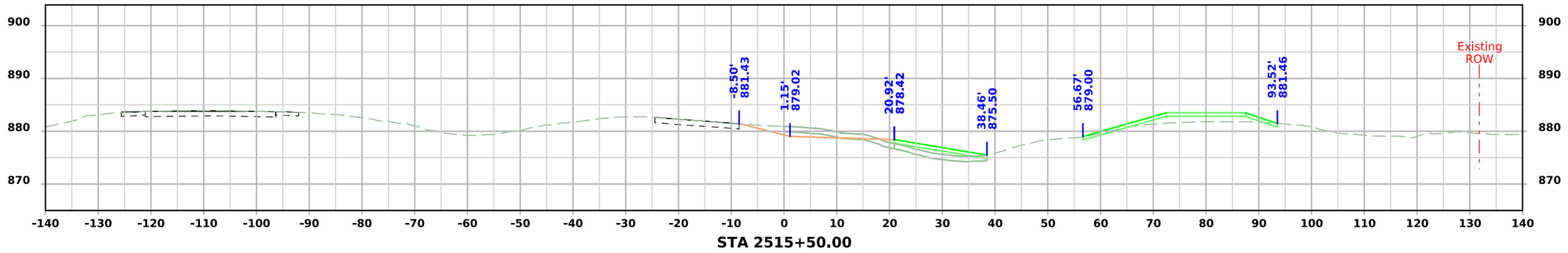


STA 2513+00.00

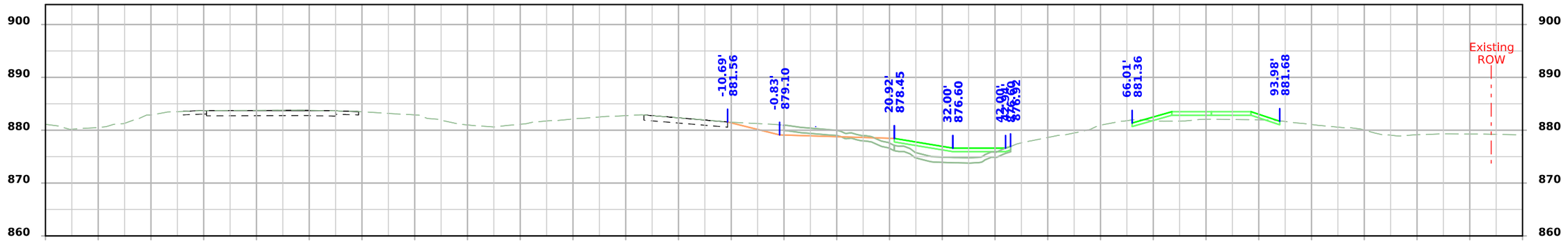
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.205

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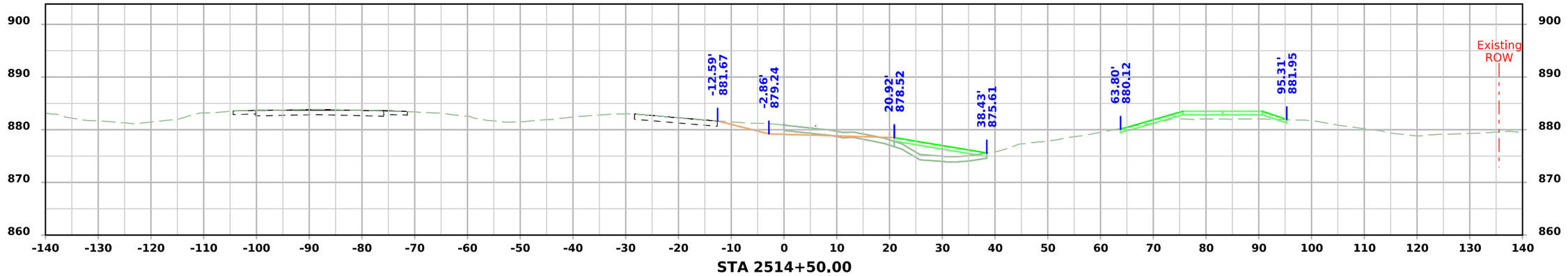
DAYTON AVE RAMP B



STA 2515+50.00



STA 2515+00.00

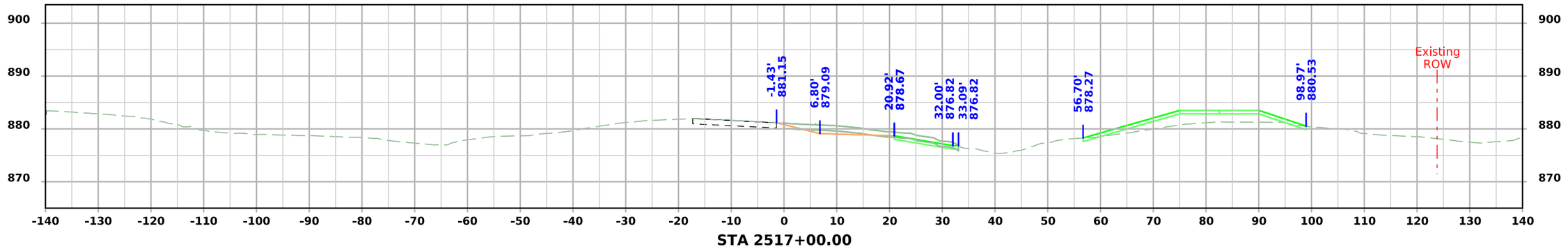


STA 2514+50.00

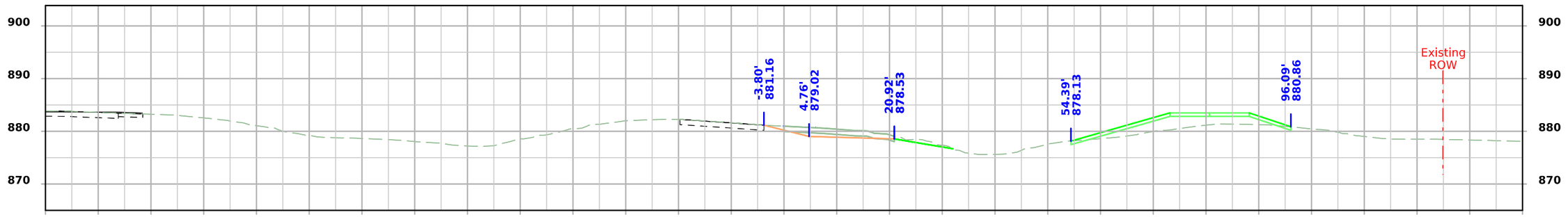
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.206	

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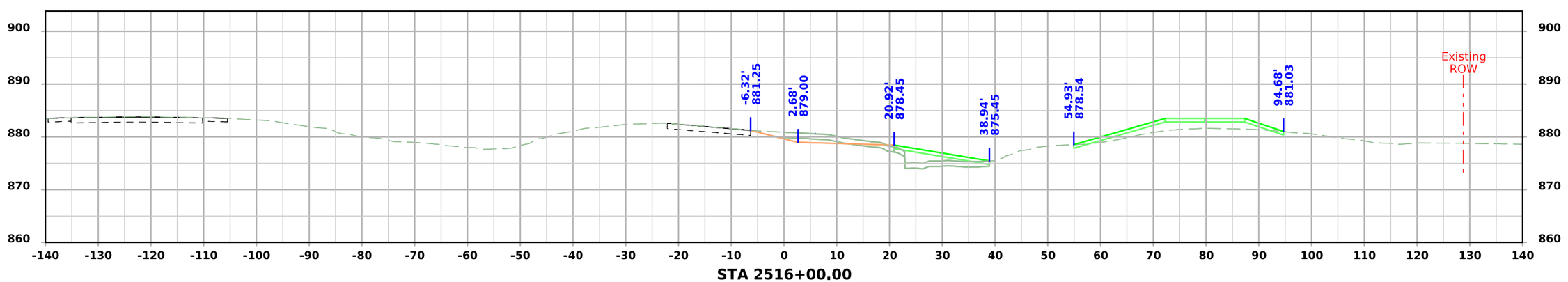
DAYTON AVE RAMP B



STA 2517+00.00



STA 2516+50.00

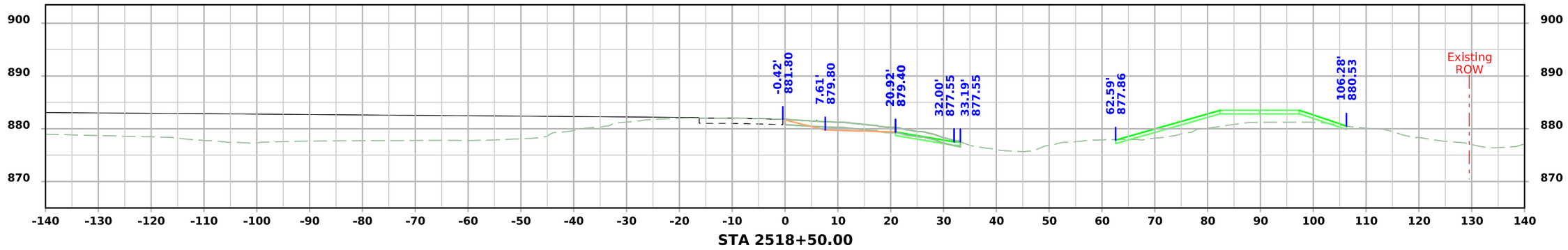


STA 2516+00.00

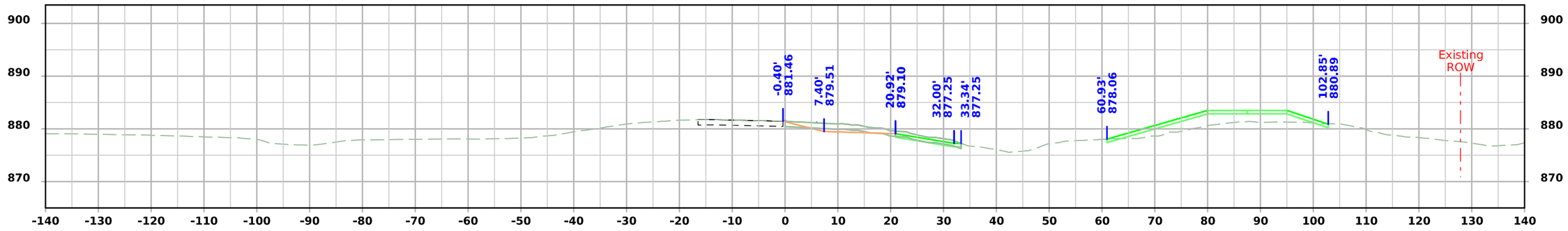
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.207	

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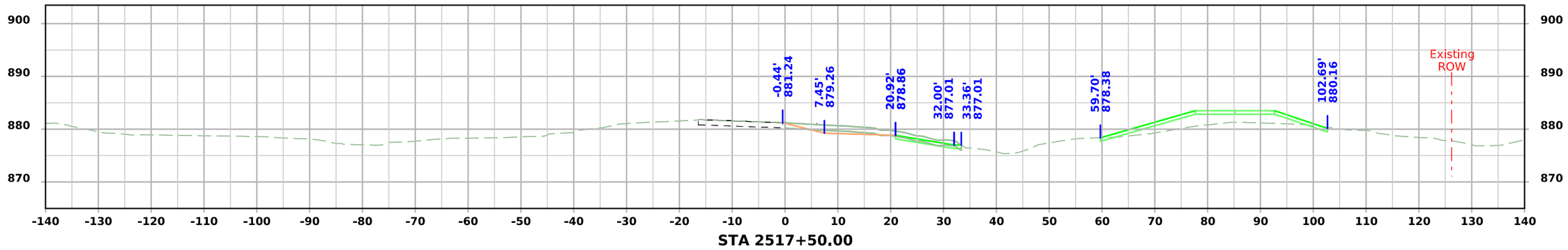
DAYTON AVE RAMP B



STA 2518+50.00



STA 2518+00.00

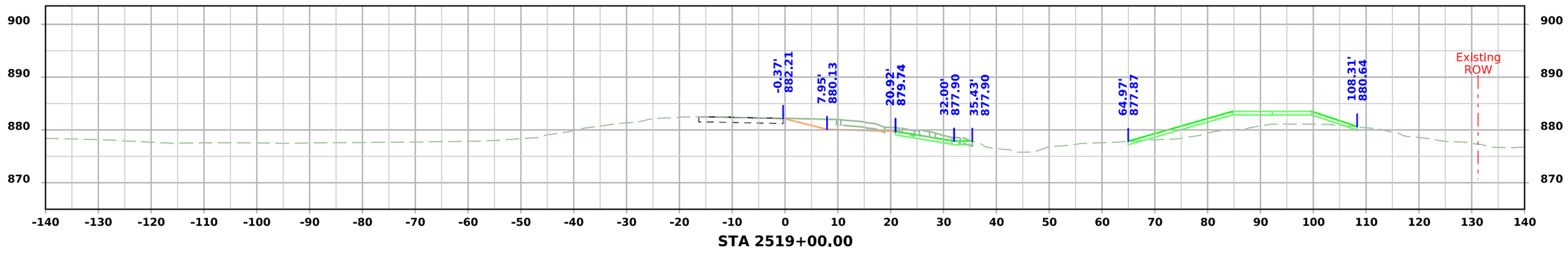


STA 2517+50.00

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.208

09:18:00 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP A_WHKS_8503027IZ08.dgn

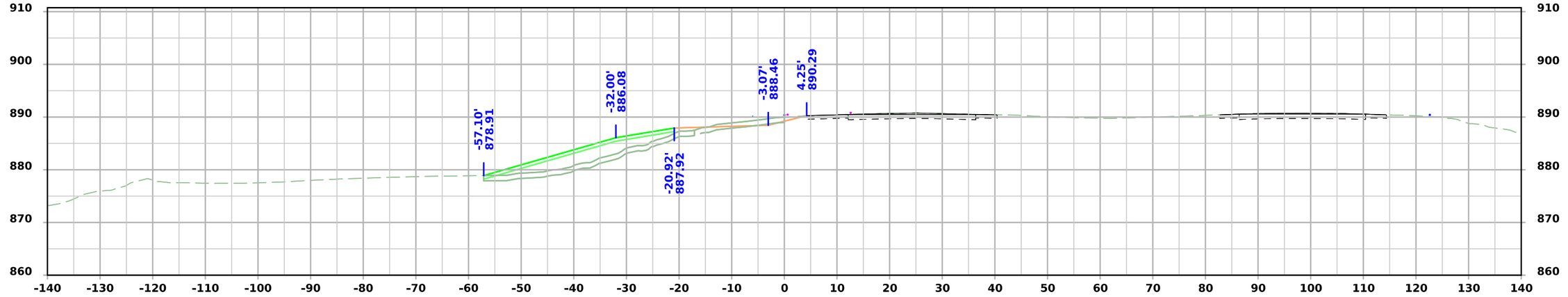
DAYTON AVE RAMP B



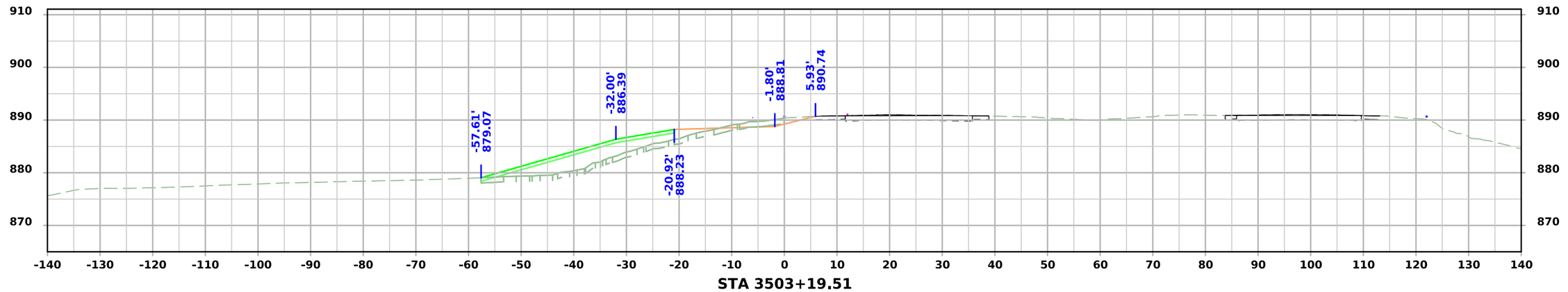
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DAYTON AVE RAMP C



STA 3503+50.00

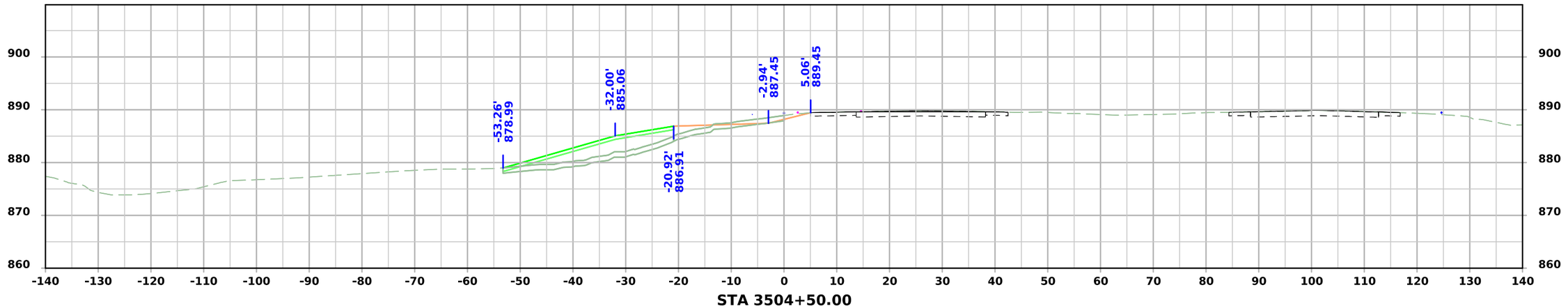


STA 3503+19.51

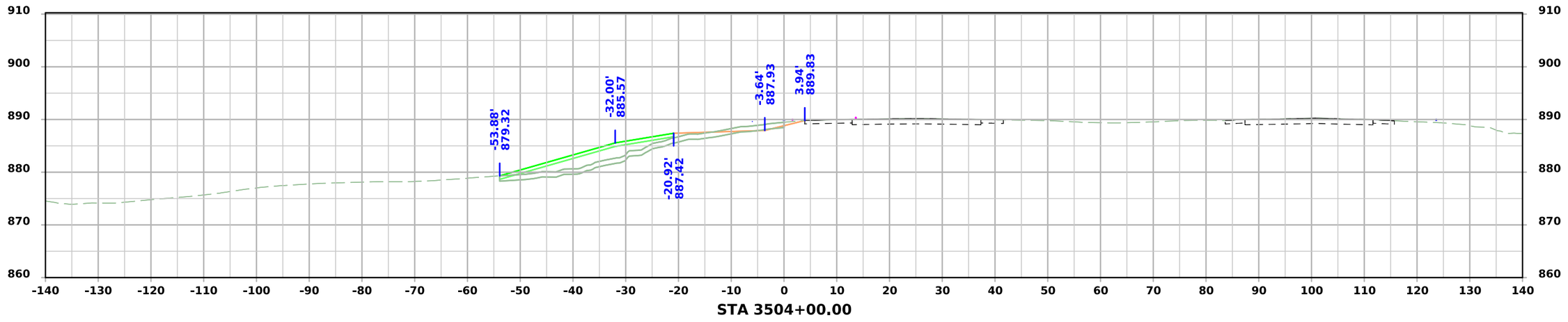
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09:19:15 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP B_WHKS_8503027IZ08.dgn

DAYTON AVE RAMP C



STA 3504+50.00

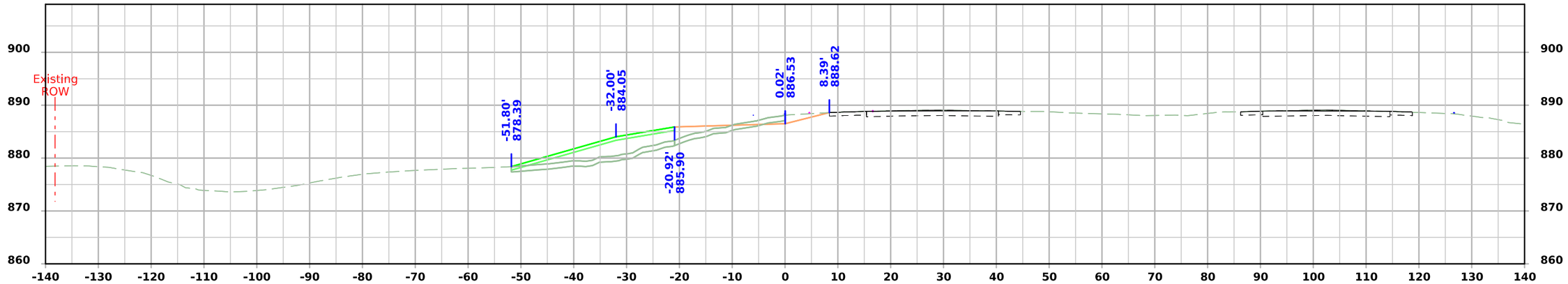


STA 3504+00.00

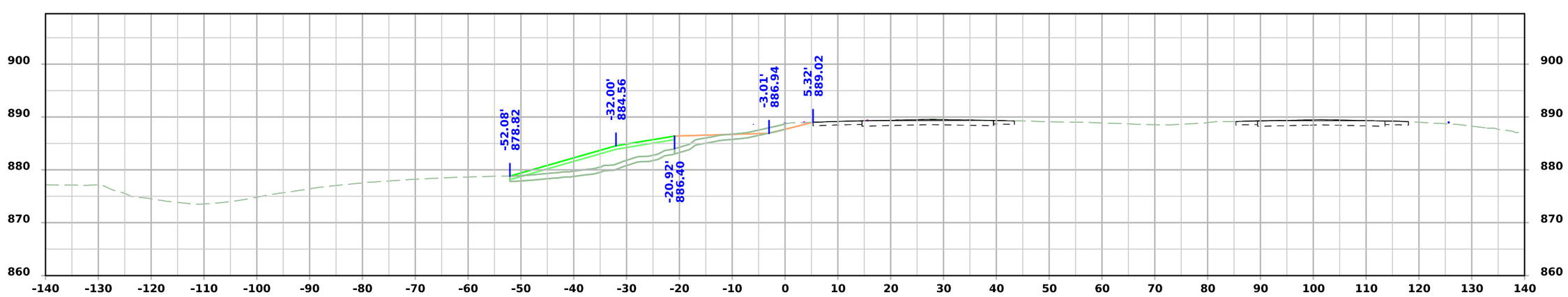
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.301

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DAYTON AVE RAMP C



STA 3505+50.00

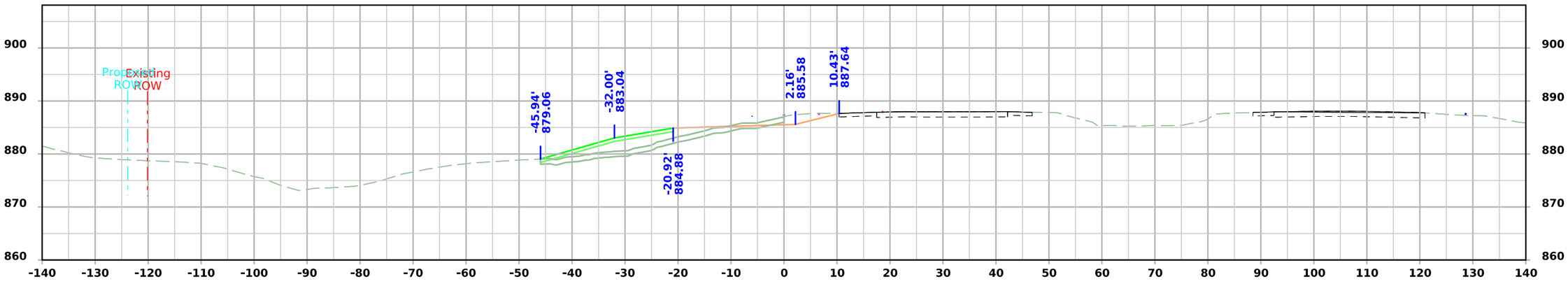


STA 3505+00.00

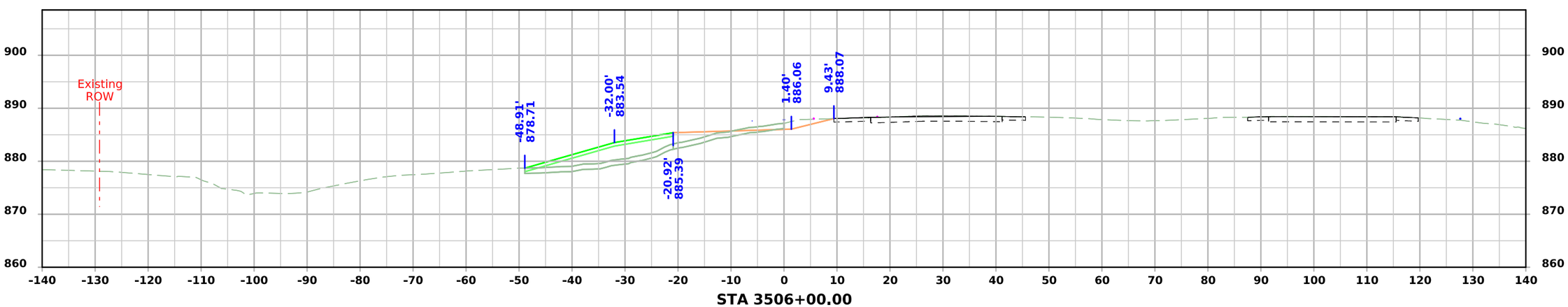
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.302

09:19:19 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP B_WHKS_85030271Z08.dgn

DAYTON AVE RAMP C



STA 3506+50.00

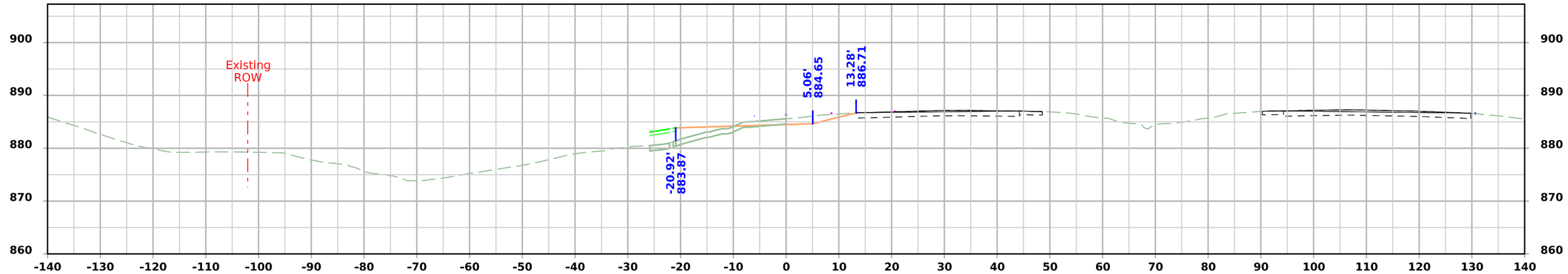


STA 3506+00.00

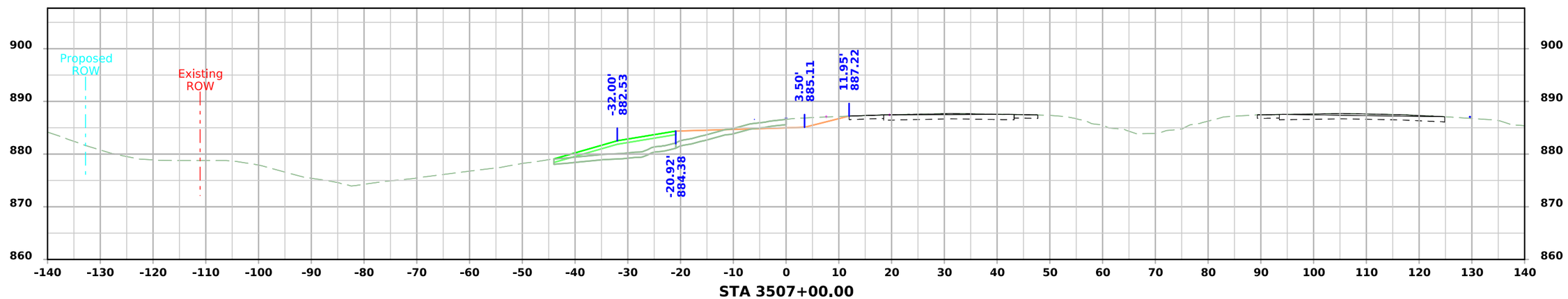
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.303

09:19:20 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP B_WHKS_85030271Z08.dgn

DAYTON AVE RAMP C



STA 3507+50.00

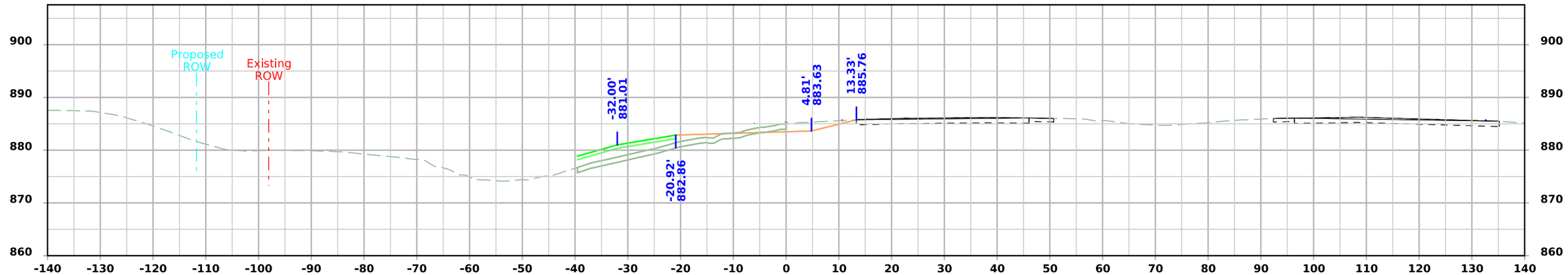


STA 3507+00.00

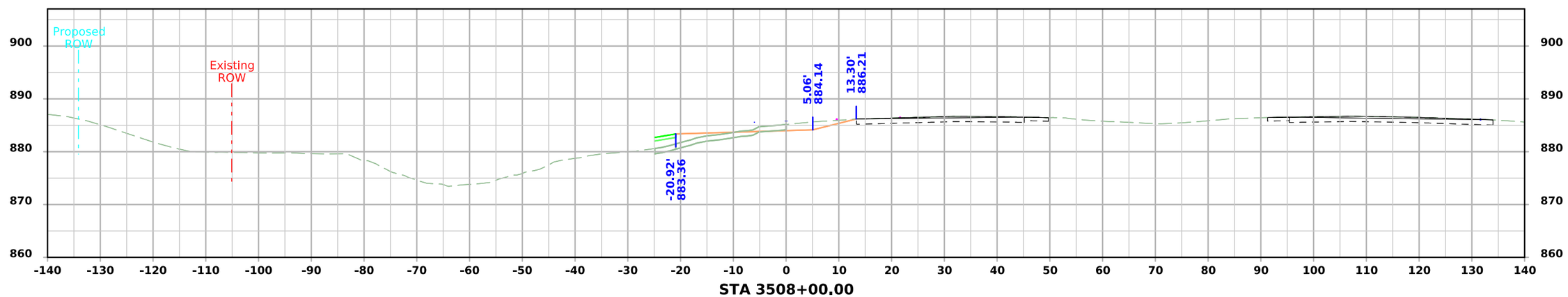
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.304

09:19:22 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP B_WHKS_85030271Z08.dgn

DAYTON AVE RAMP C



STA 3508+50.00

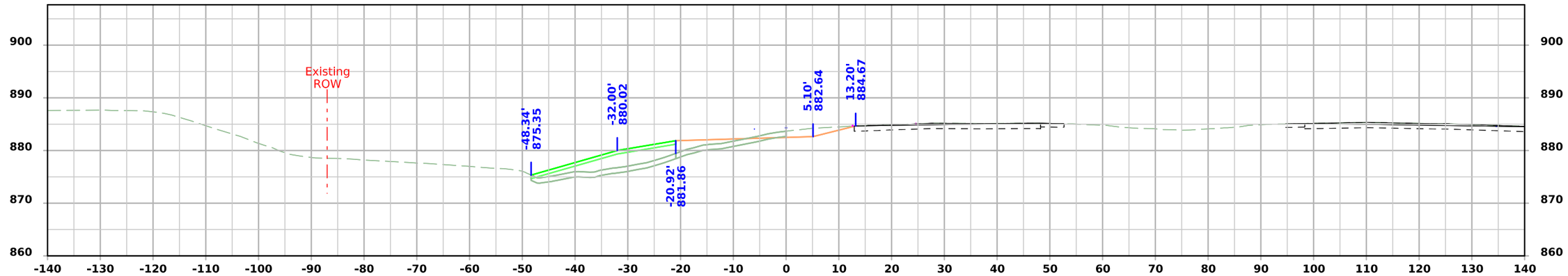


STA 3508+00.00

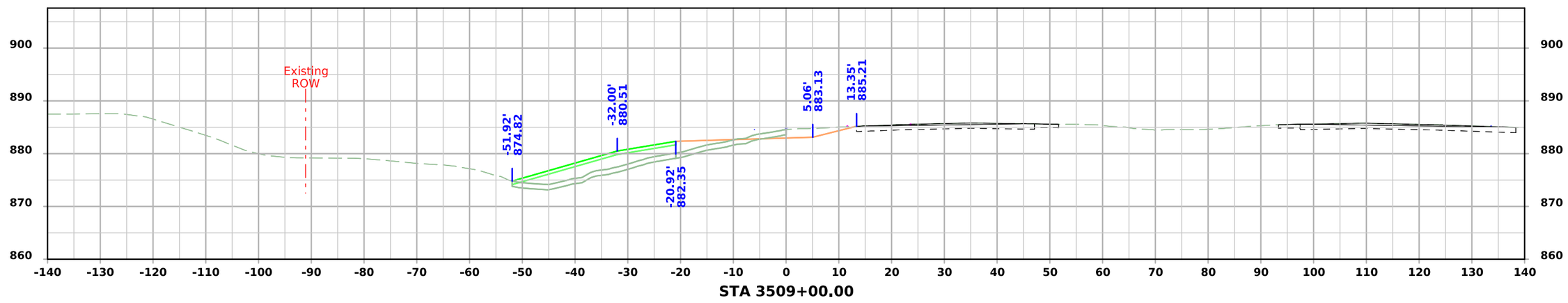
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.305

09:19:23 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP B_WHKS_85030271Z08.dgn

DAYTON AVE RAMP C



STA 3509+50.00

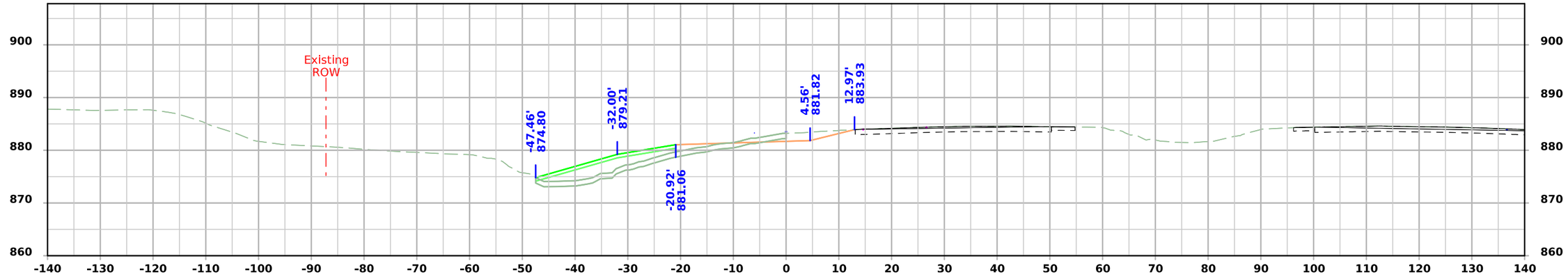


STA 3509+00.00

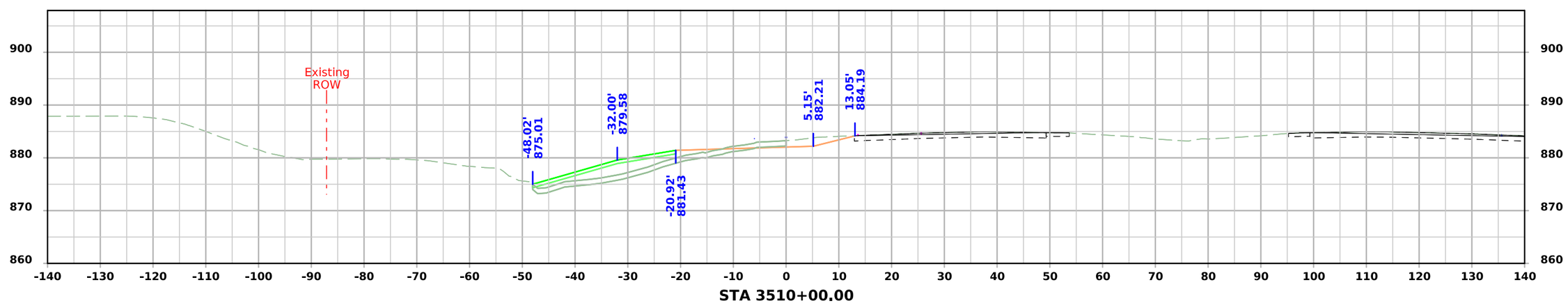
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09:19:25 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP B_WHKS_85030271Z08.dgn

DAYTON AVE RAMP C



STA 3510+50.00

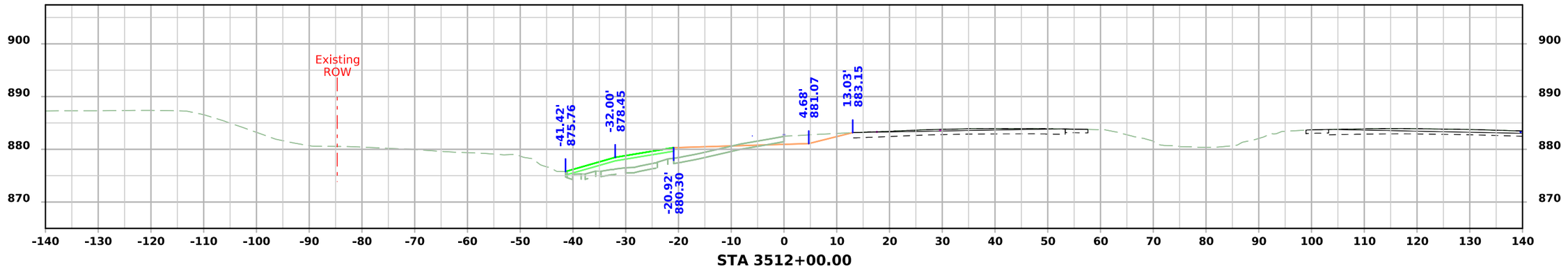


STA 3510+00.00

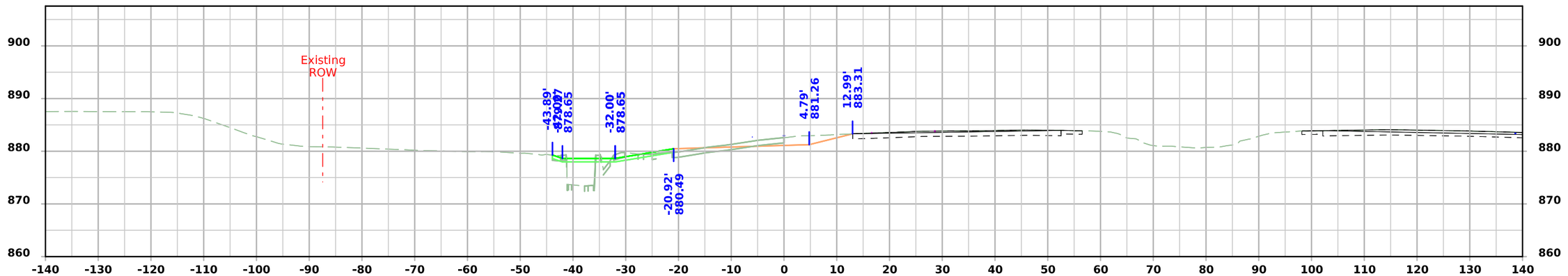
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.307

09:19:26 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP B_WHKS_85030271Z08.dgn

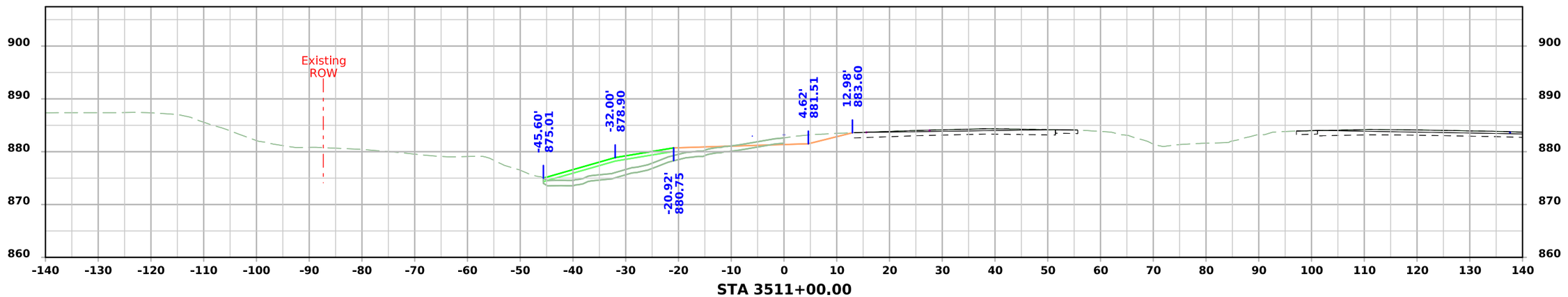
DAYTON AVE RAMP C



STA 3512+00.00



STA 3511+50.00

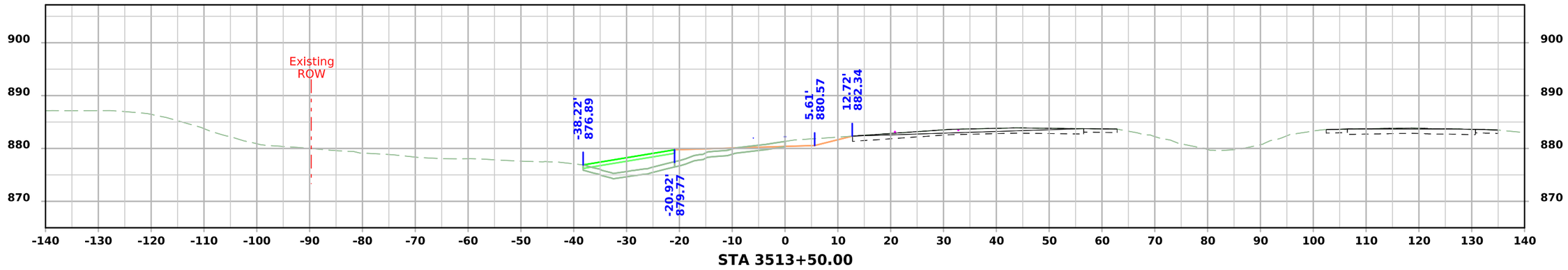


STA 3511+00.00

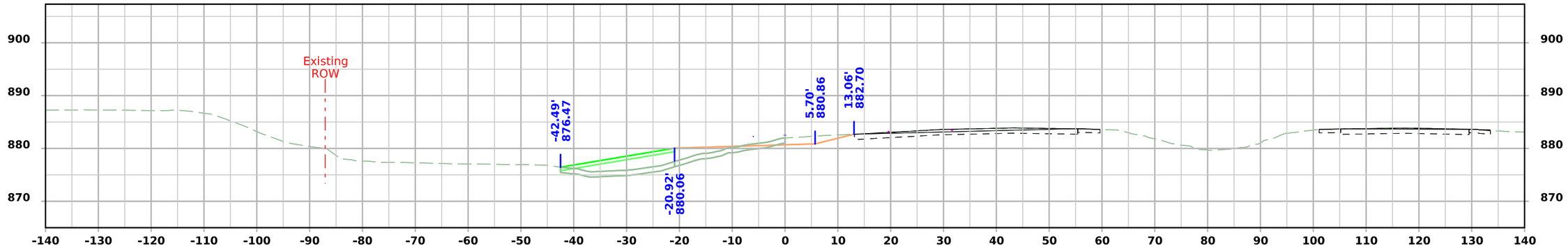
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.308

09:19:28 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP B_WHKS_85030271Z08.dgn

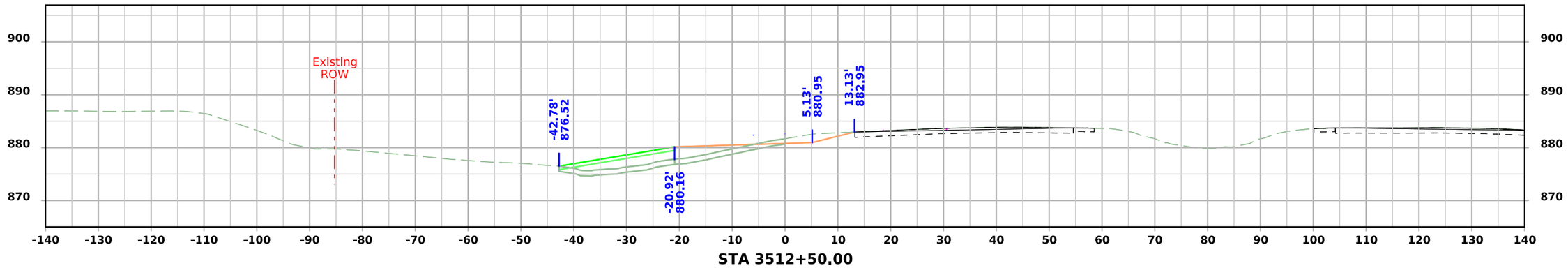
DAYTON AVE RAMP C



STA 3513+50.00



STA 3513+00.00

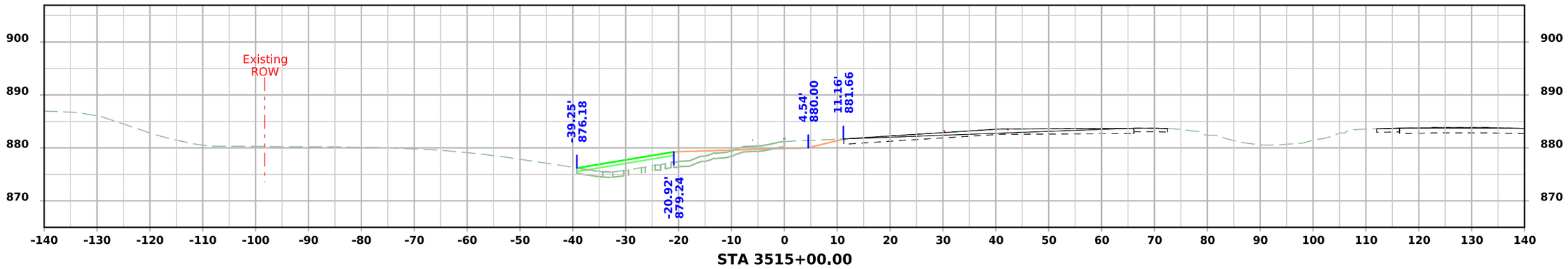


STA 3512+50.00

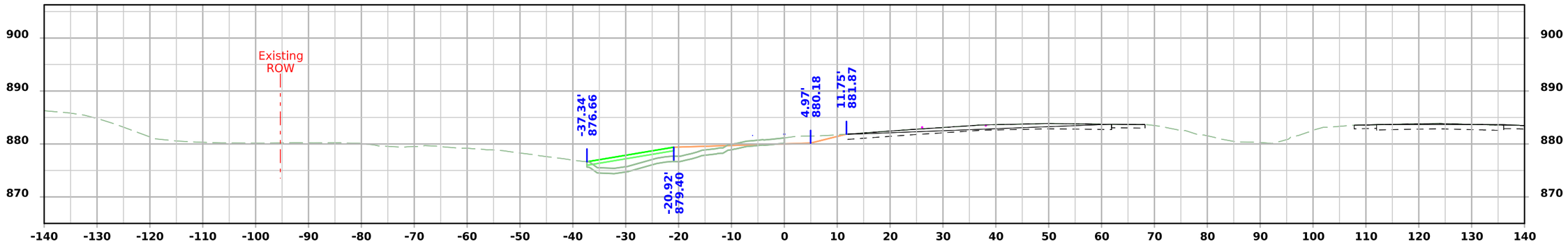
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.309

09:19:30 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP B_WHKS_85030271Z08.dgn

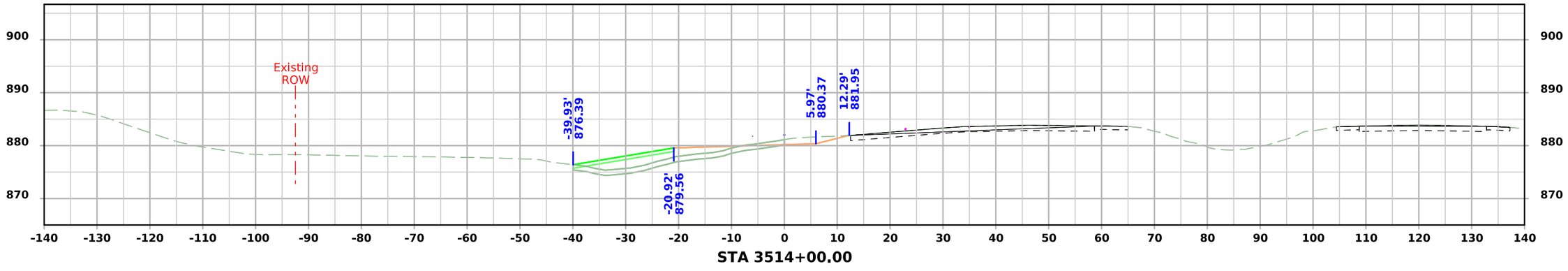
DAYTON AVE RAMP C



STA 3515+00.00



STA 3514+50.00

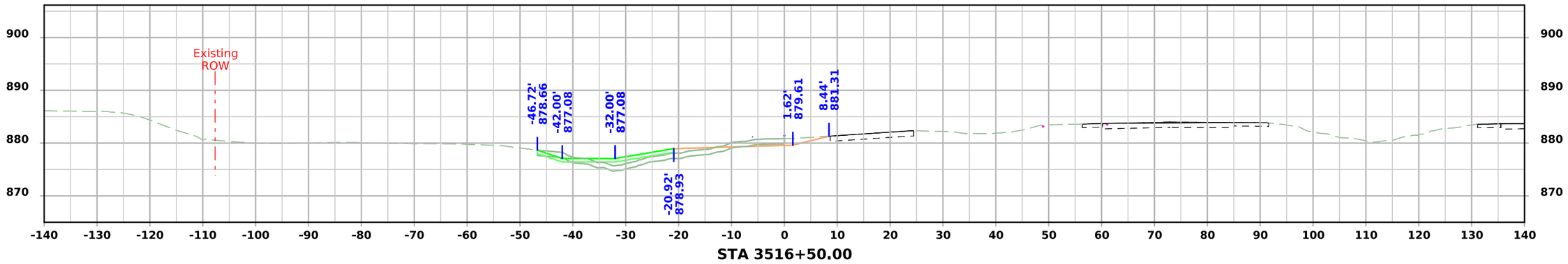


STA 3514+00.00

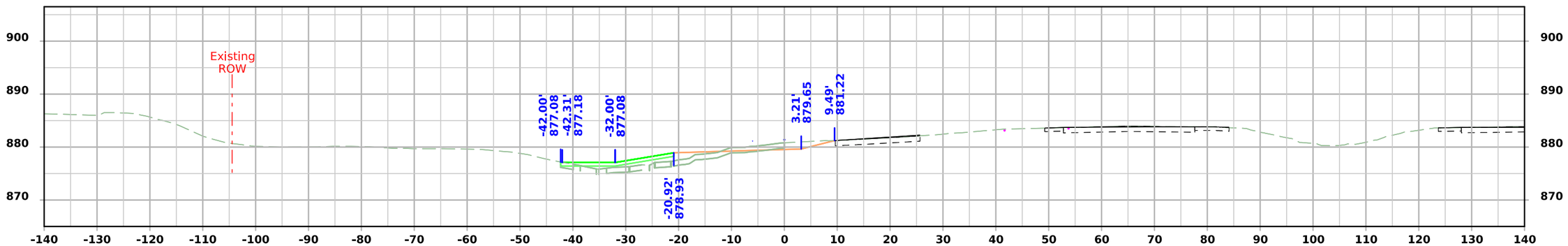
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09:19:33 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP B_WHKS_85030271Z08.dgn

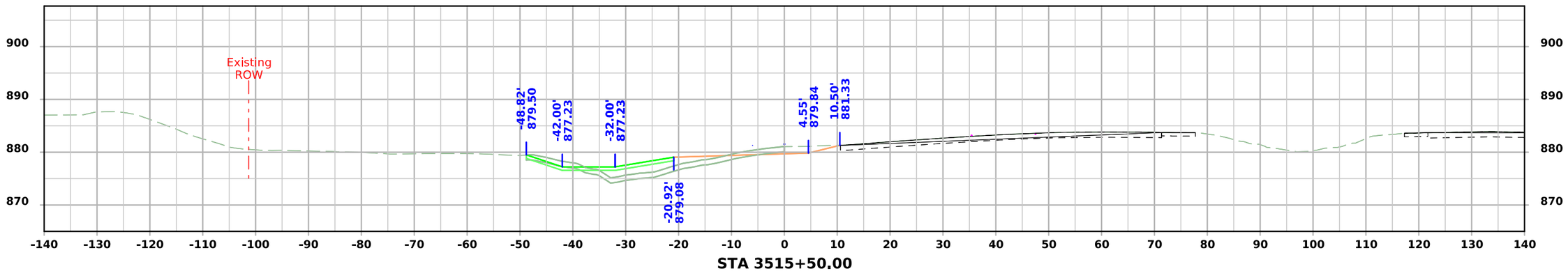
DAYTON AVE RAMP C



STA 3516+50.00



STA 3516+00.00

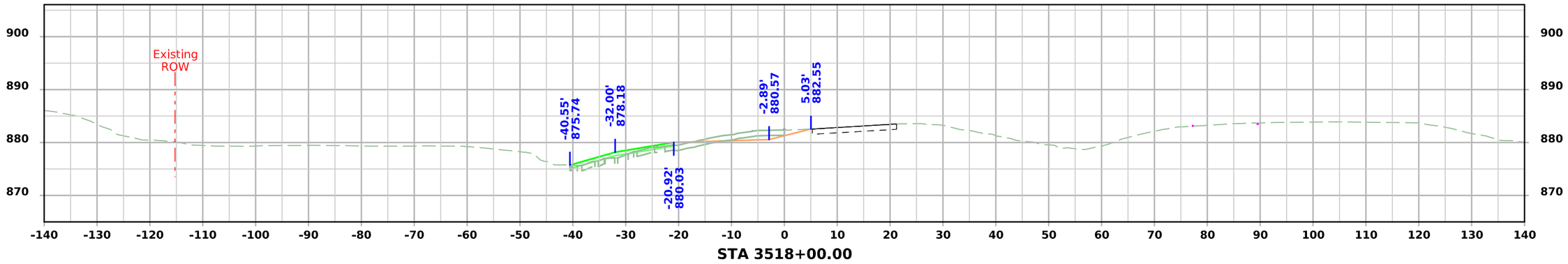


STA 3515+50.00

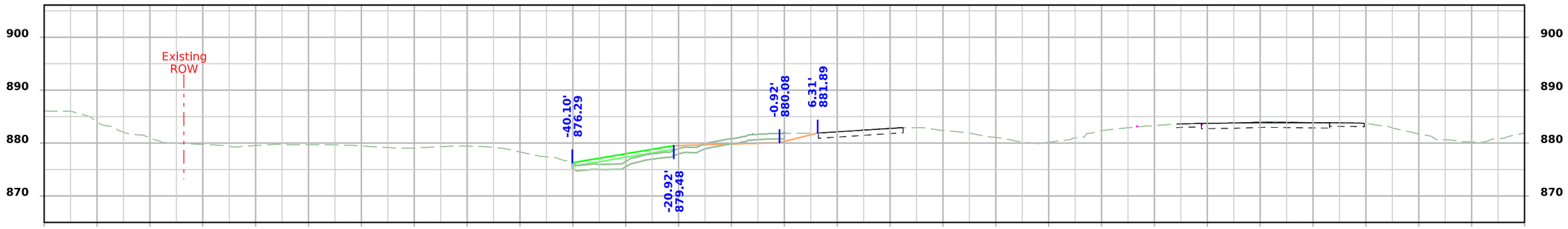
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.311

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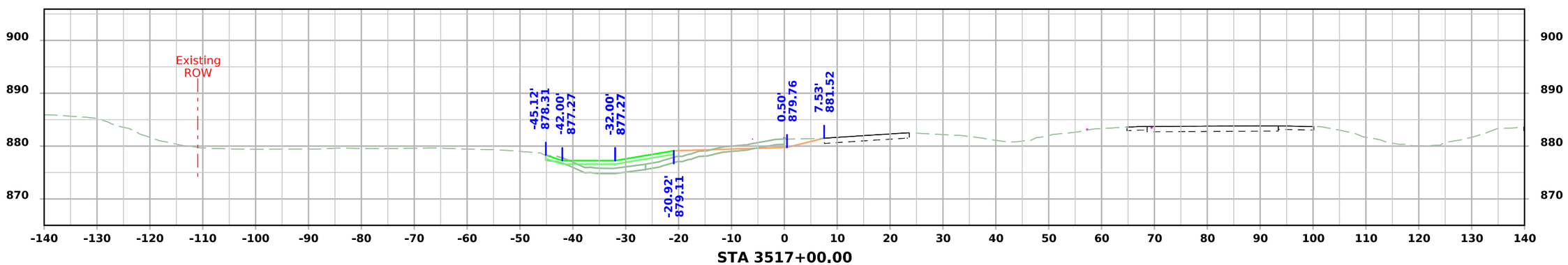
DAYTON AVE RAMP C



STA 3518+00.00



STA 3517+50.00

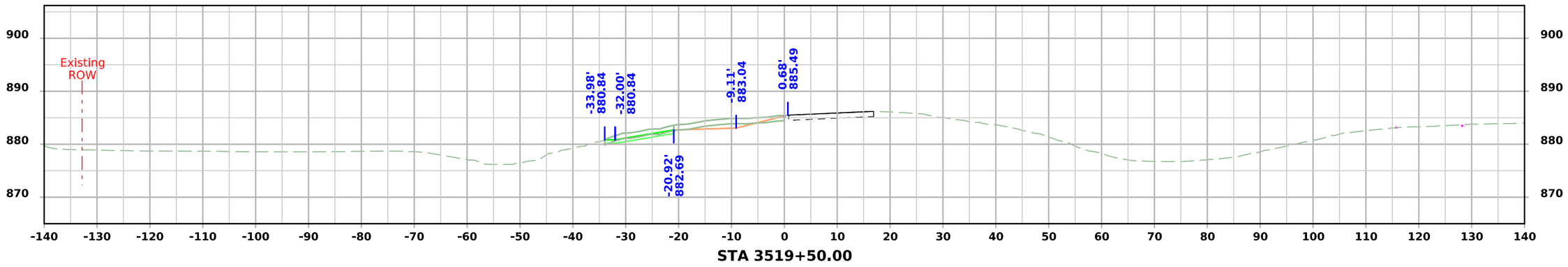


STA 3517+00.00

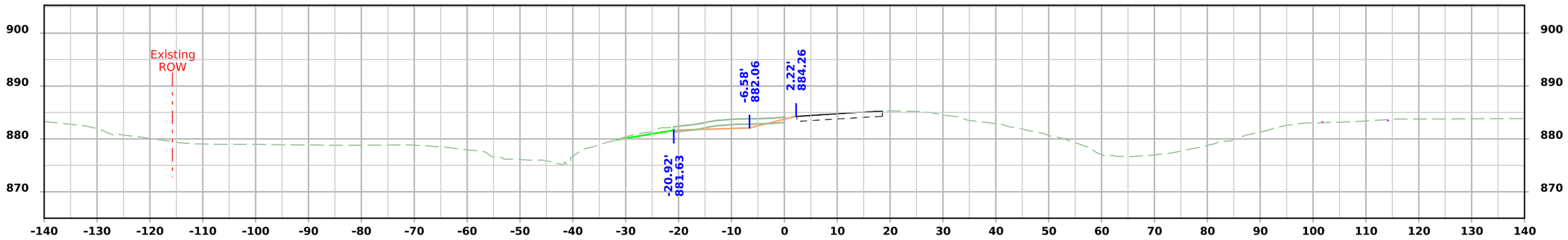
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.312

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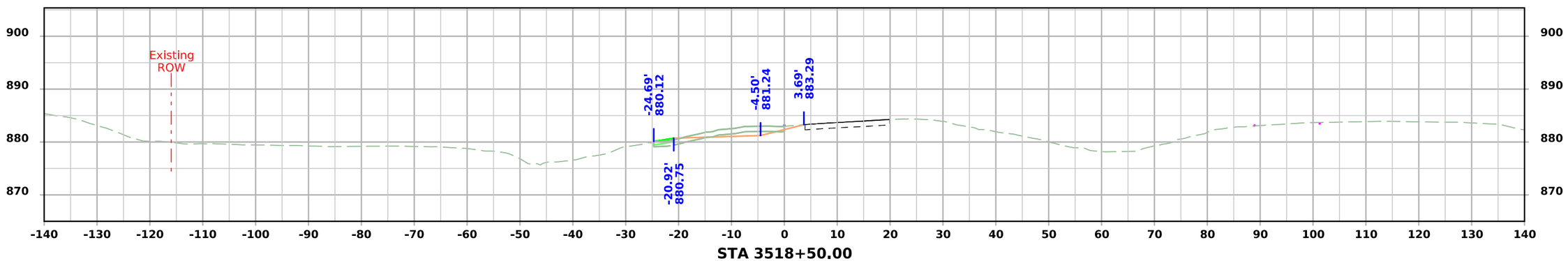
DAYTON AVE RAMP C



STA 3519+50.00



STA 3519+00.00

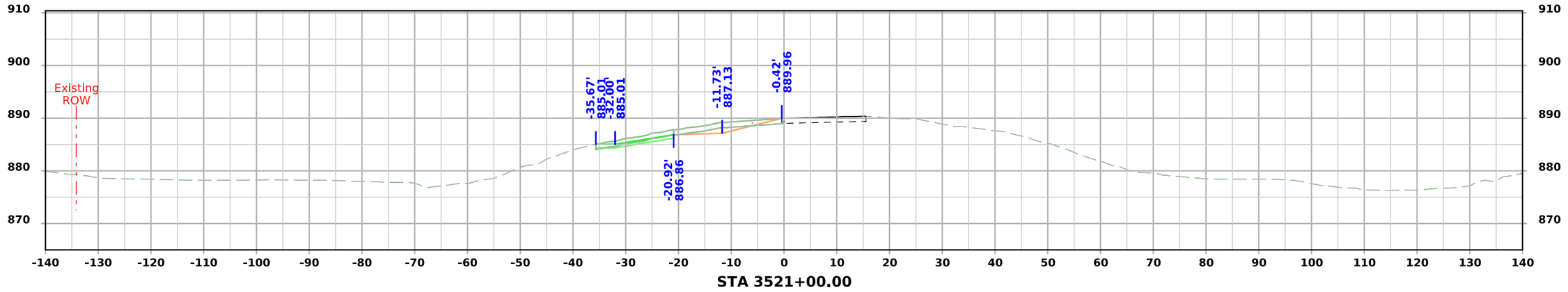


STA 3518+50.00

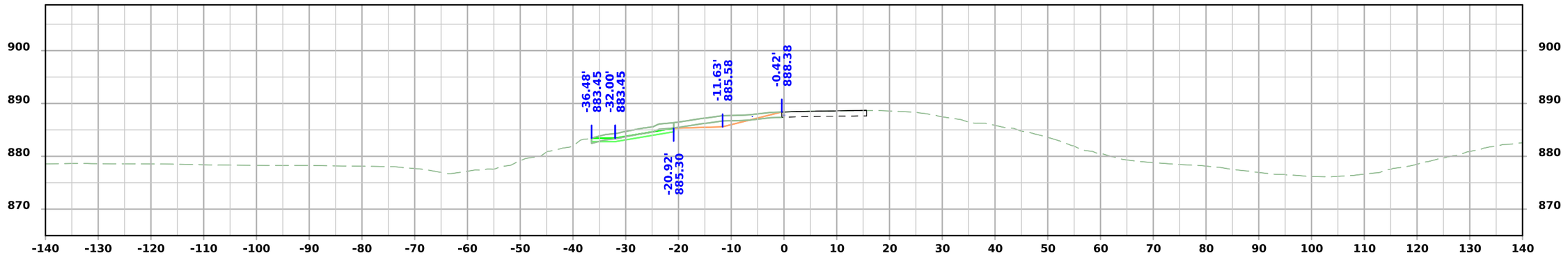
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.313

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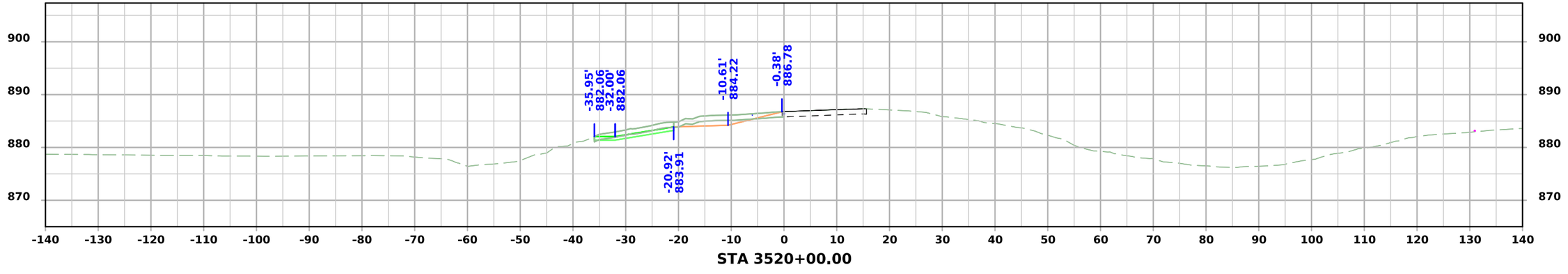
DAYTON AVE RAMP C



STA 3521+00.00



STA 3520+50.00

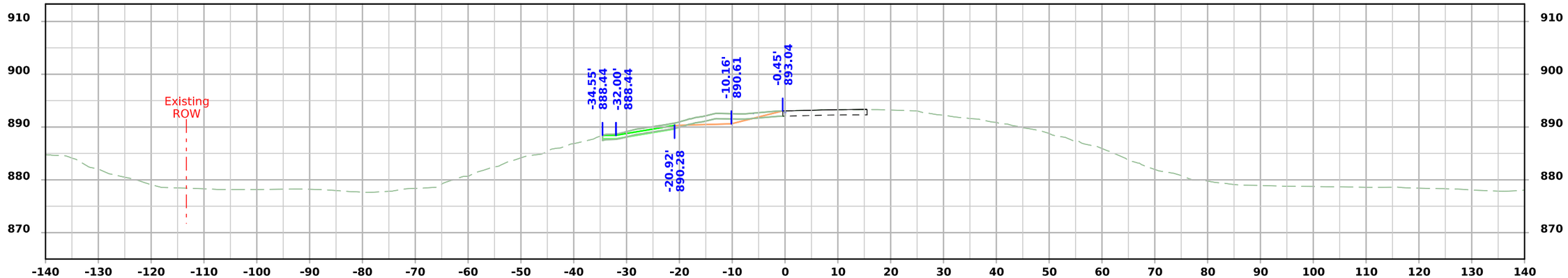


STA 3520+00.00

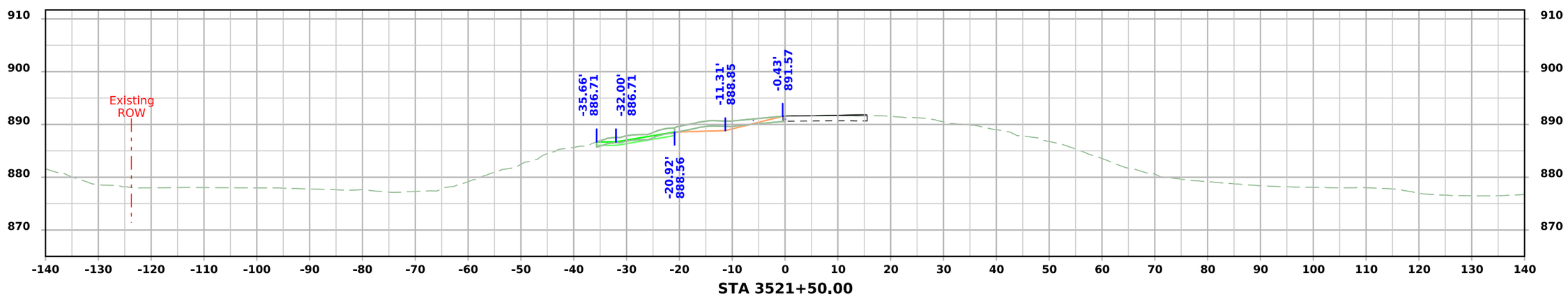
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.314	

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DAYTON AVE RAMP C



STA 3522+00.00

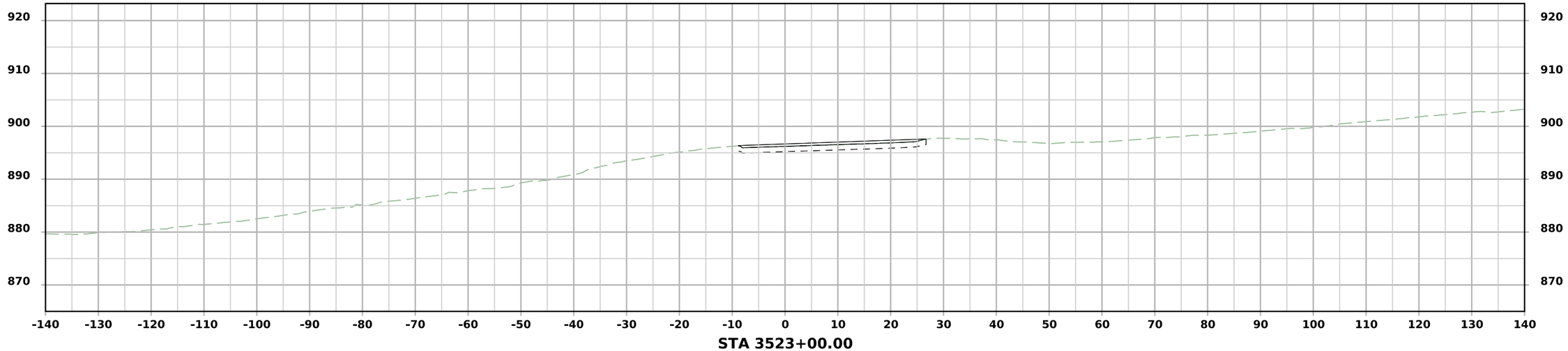


STA 3521+50.00

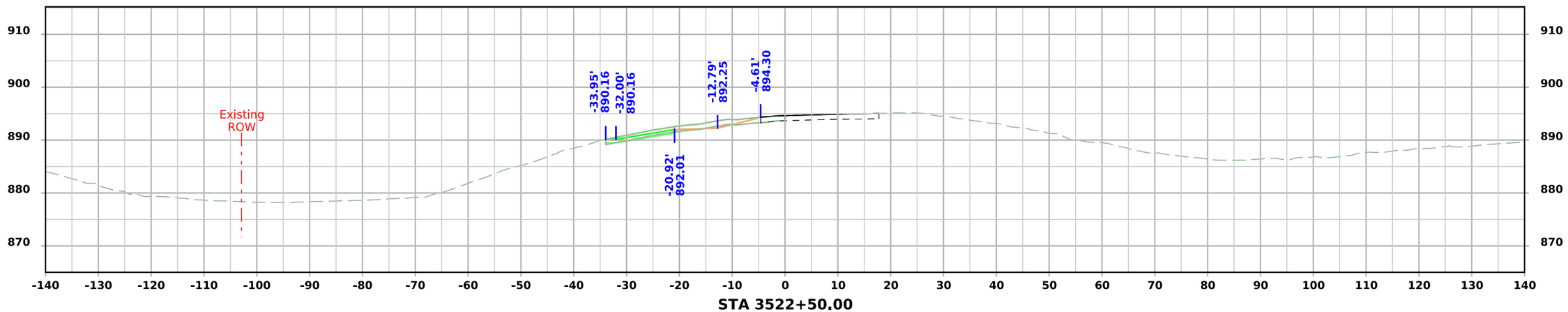
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.315

09:19:43 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP B_WHKS_85030271Z08.dgn

DAYTON AVE RAMP C



STA 3523+00.00

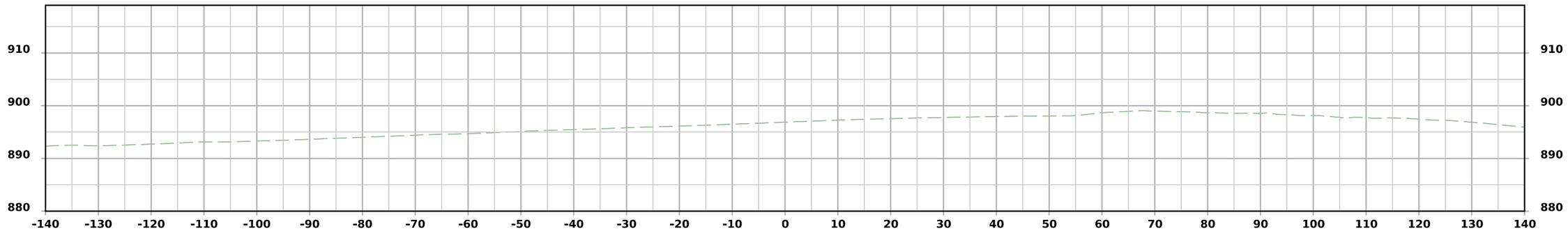


STA 3522+50.00

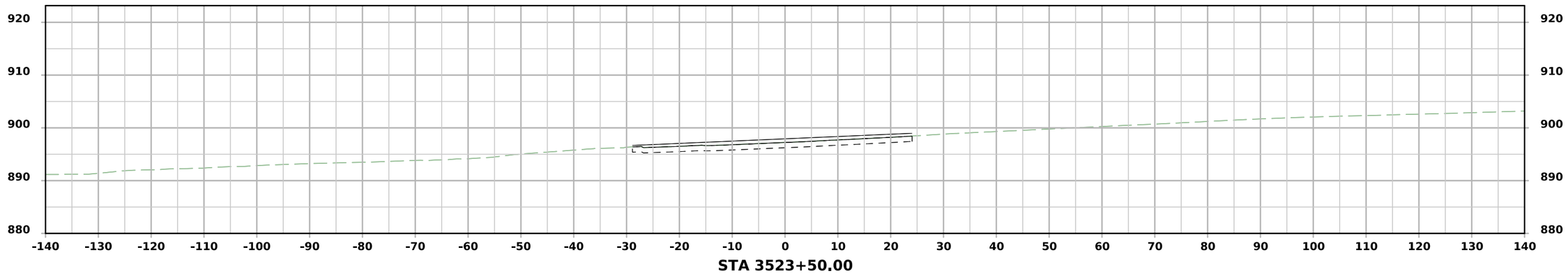
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.316

09:19:45 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP B_WHKS_85030271Z08.dgn

DAYTON AVE RAMP C



STA 3524+00.00

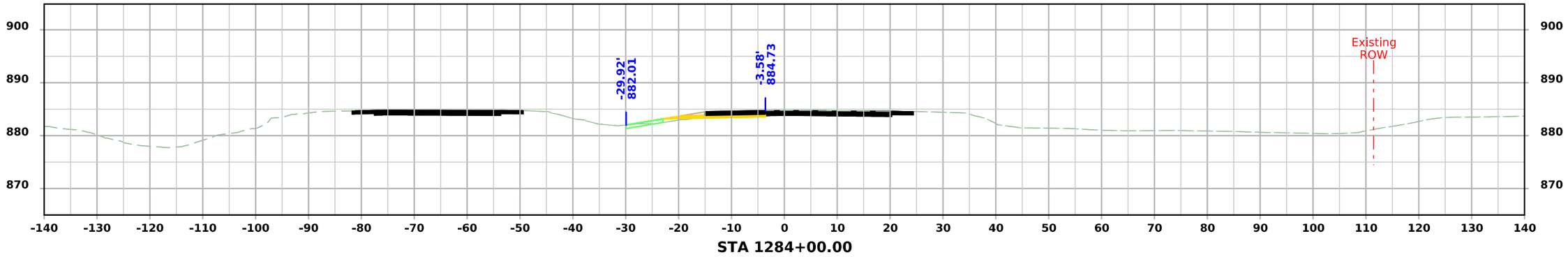


STA 3523+50.00

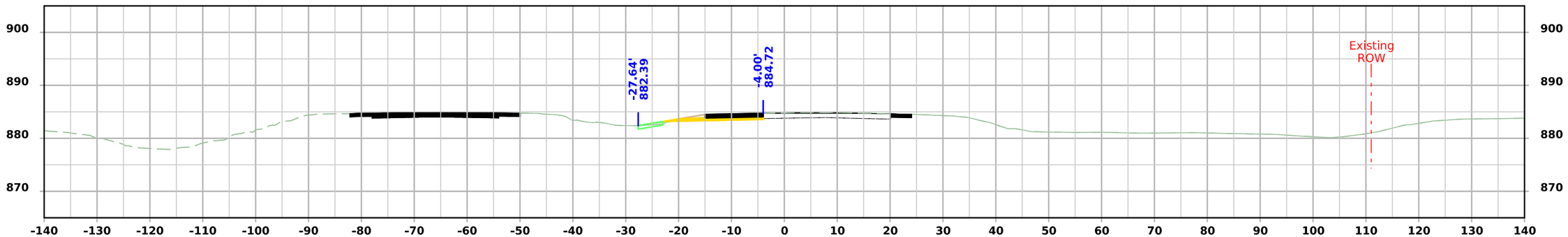
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Y.317

09:19:47 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_RAMP B_WHKS_85030271Z08.dgn

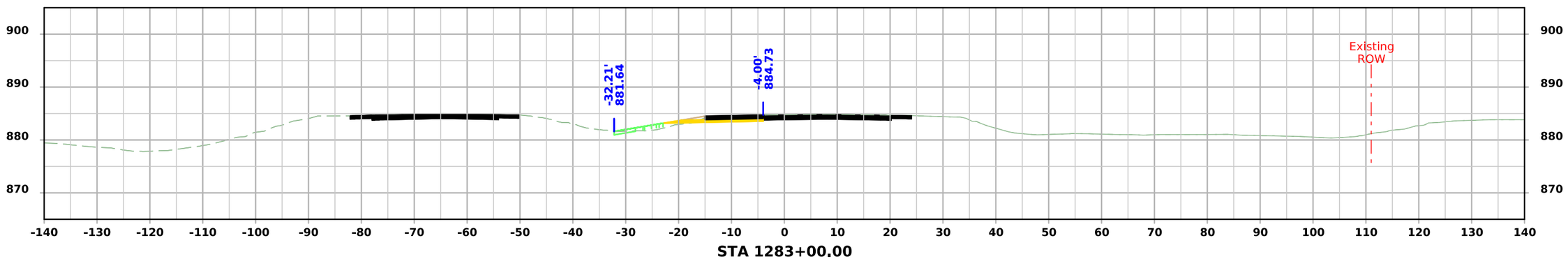
US HWY 30 DETOUR PAVING



STA 1284+00.00



STA 1283+50.00

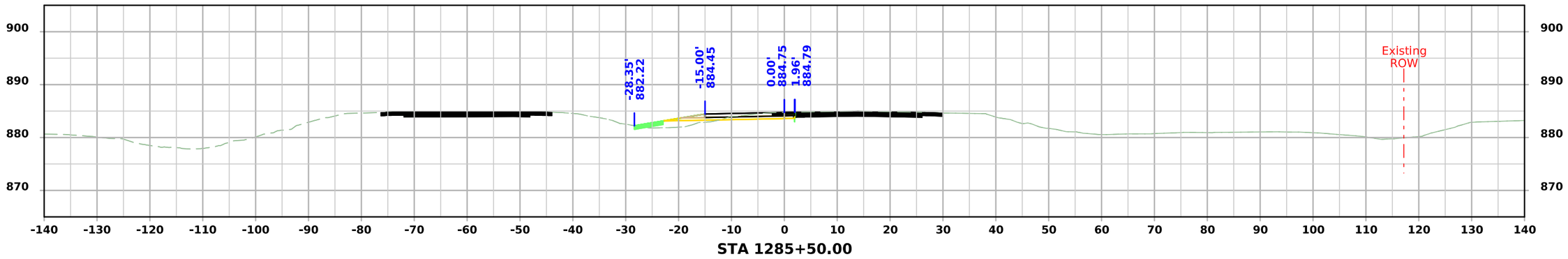


STA 1283+00.00

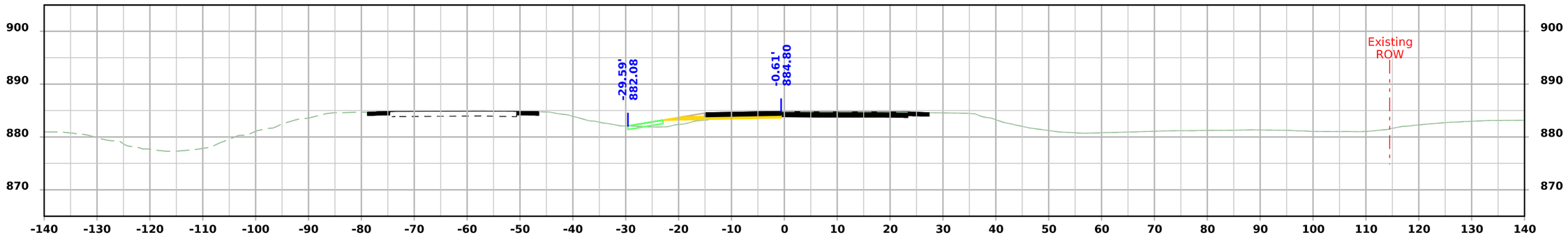
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.1	

09:21:44 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_DETOUR_WHKS_85030271Z08.dgn

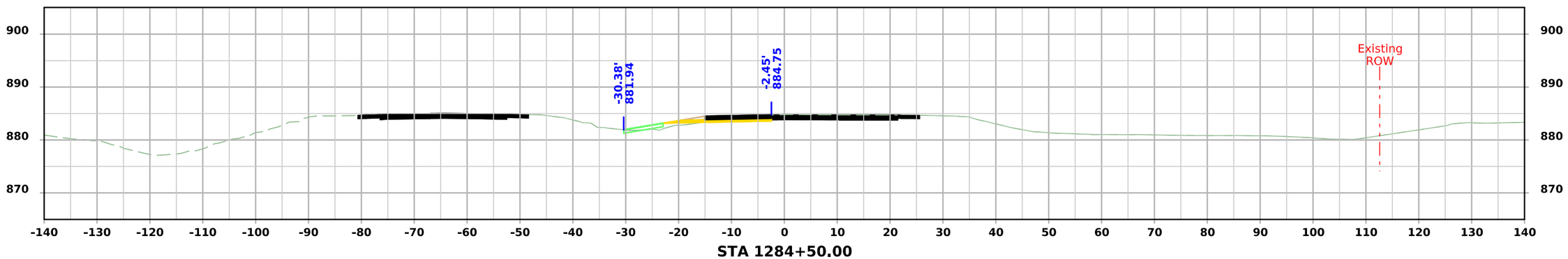
US HWY 30 DETOUR PAVING



STA 1285+50.00



STA 1285+00.00

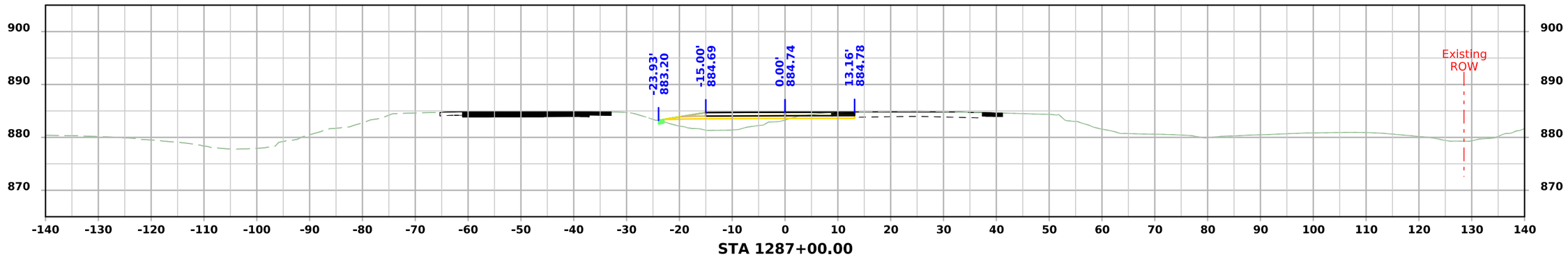


STA 1284+50.00

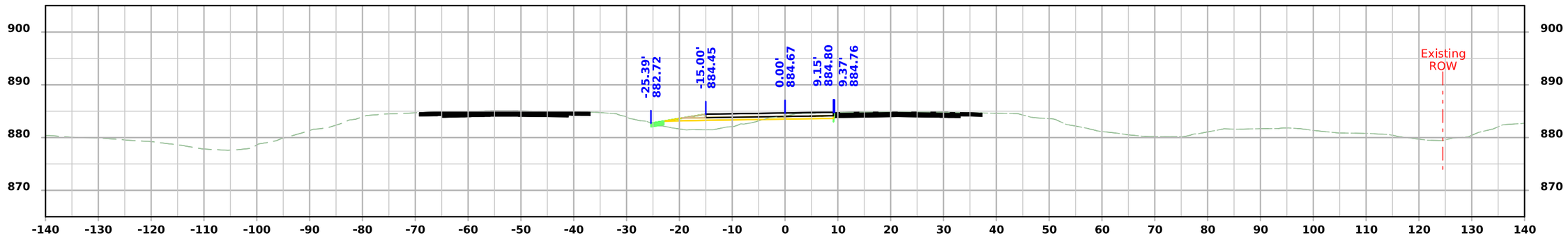
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.2

09:22:03 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_DETOUR_WHKS_85030271Z08.dgn

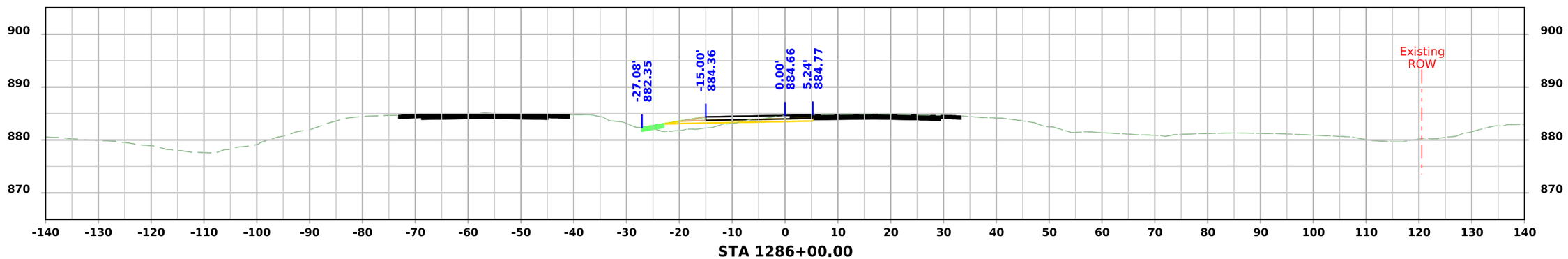
US HWY 30 DETOUR PAVING



STA 1287+00.00



STA 1286+50.00

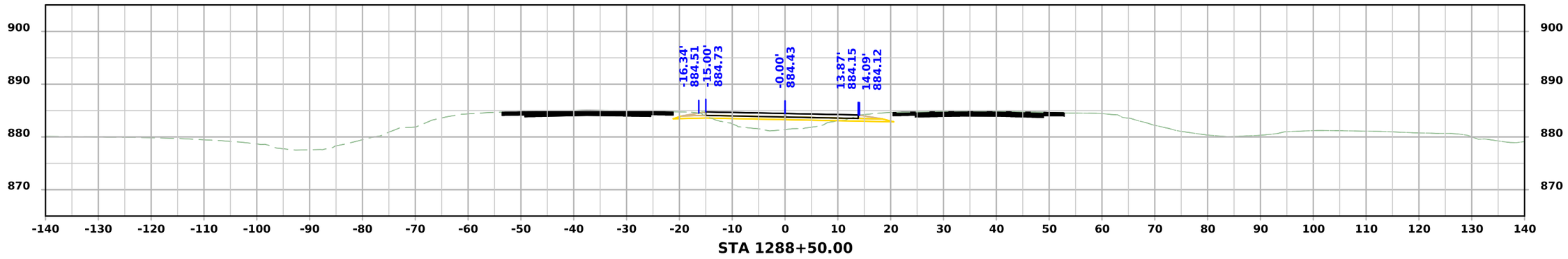


STA 1286+00.00

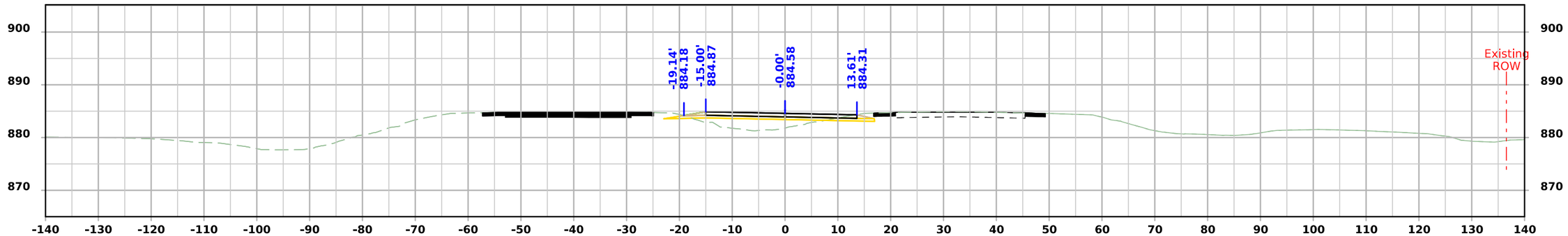
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.3	

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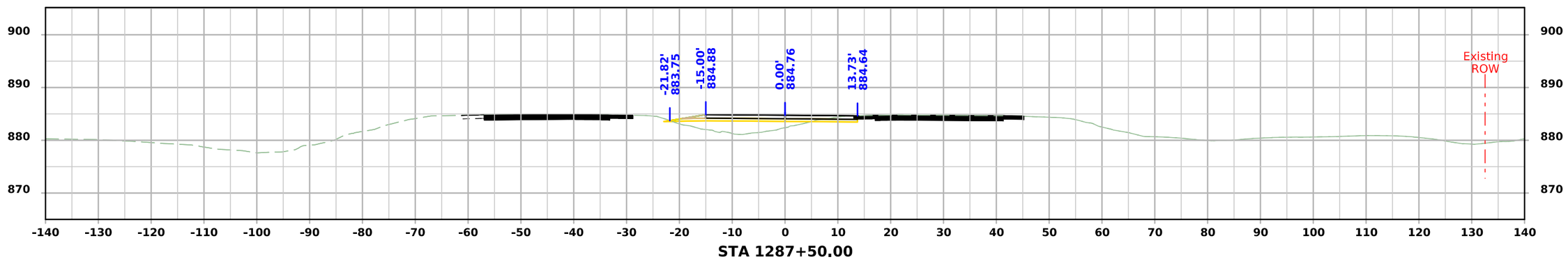
US HWY 30 DETOUR PAVING



STA 1288+50.00



STA 1288+00.00

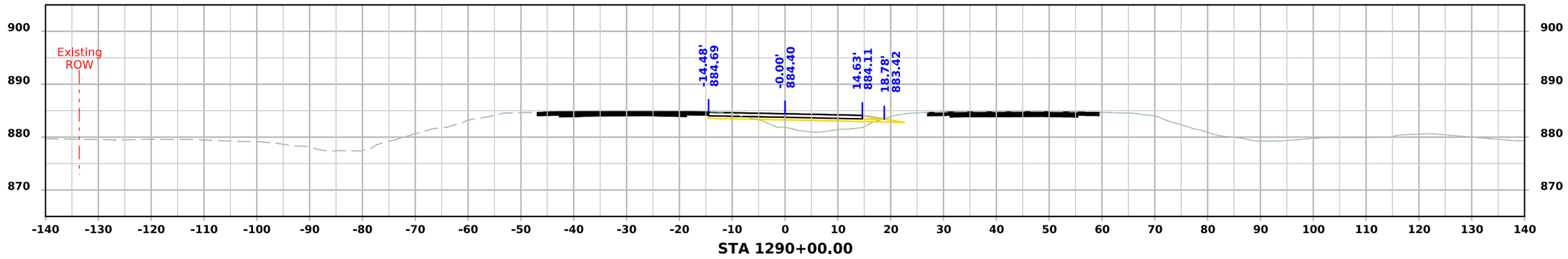


STA 1287+50.00

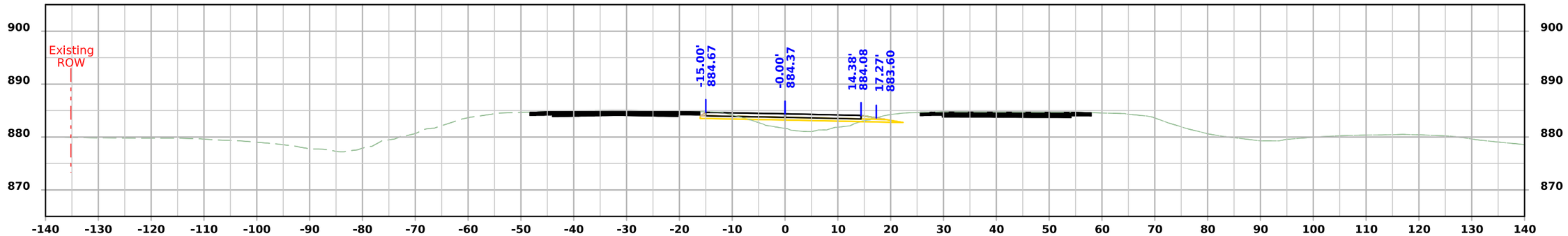
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.4	

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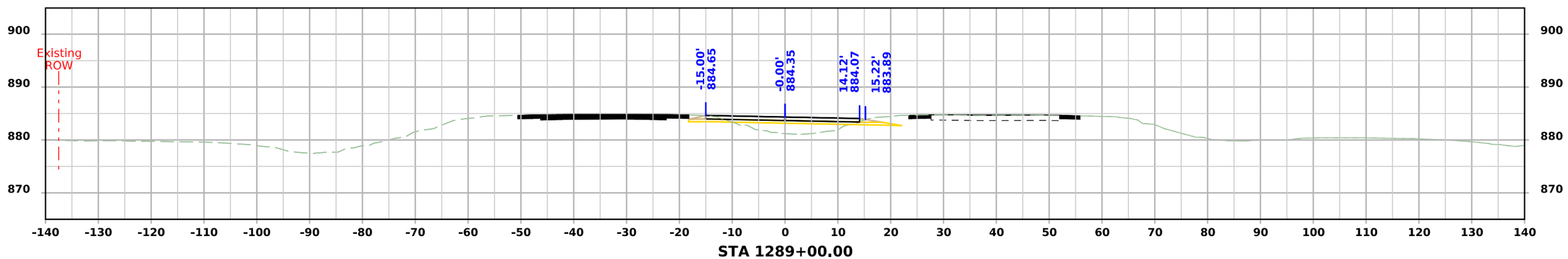
US HWY 30 DETOUR PAVING



STA 1290+00.00



STA 1289+50.00

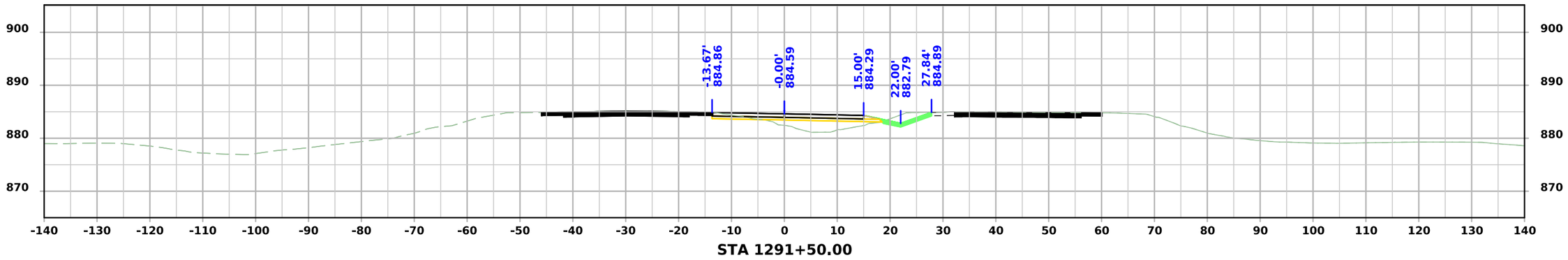


STA 1289+00.00

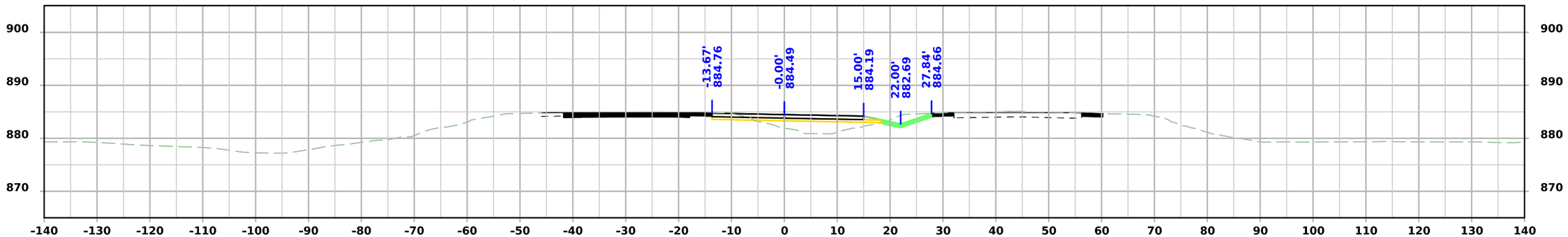
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.5

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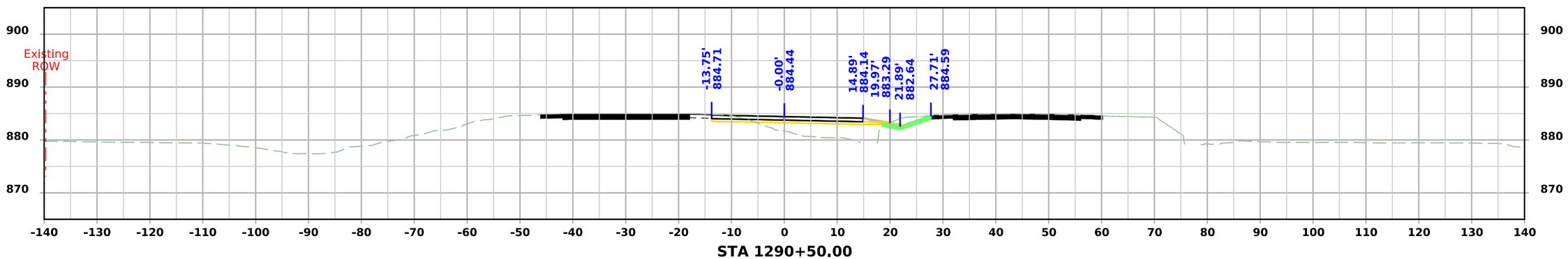
US HWY 30 DETOUR PAVING



STA 1291+50.00



STA 1291+00.00

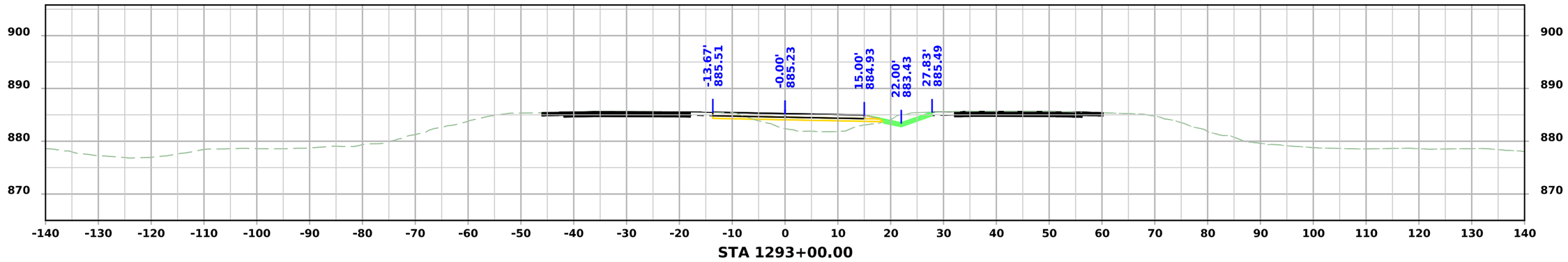


STA 1290+50.00

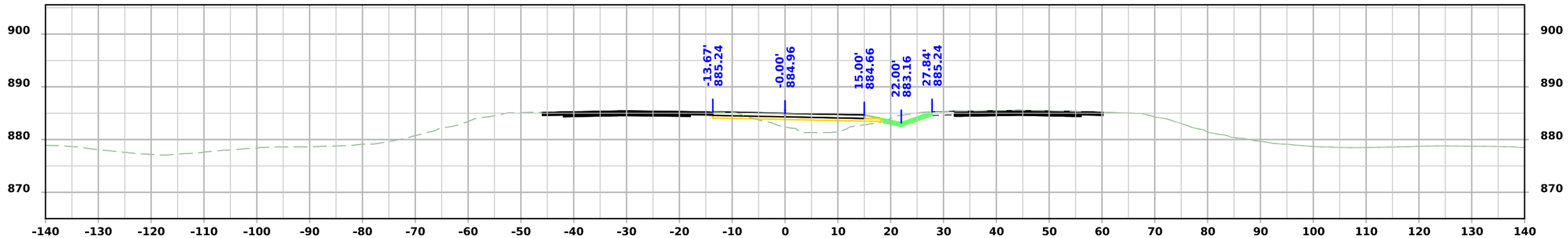
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.6	

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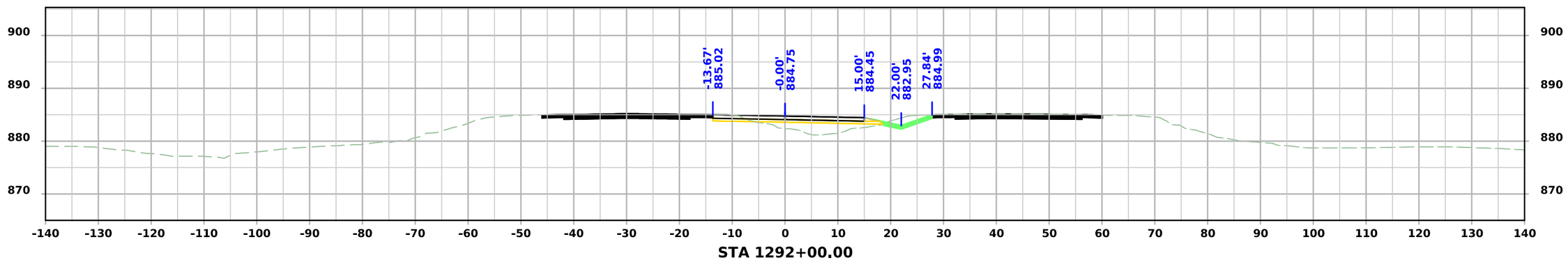
US HWY 30 DETOUR PAVING



STA 1293+00.00



STA 1292+50.00

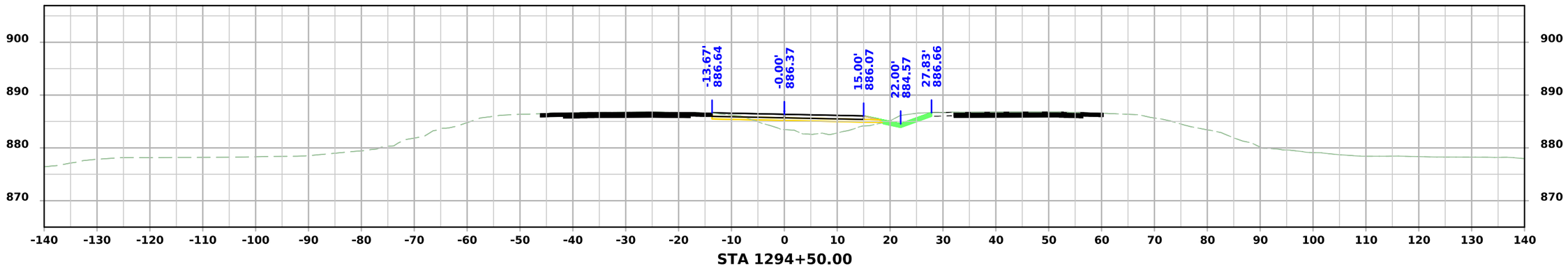


STA 1292+00.00

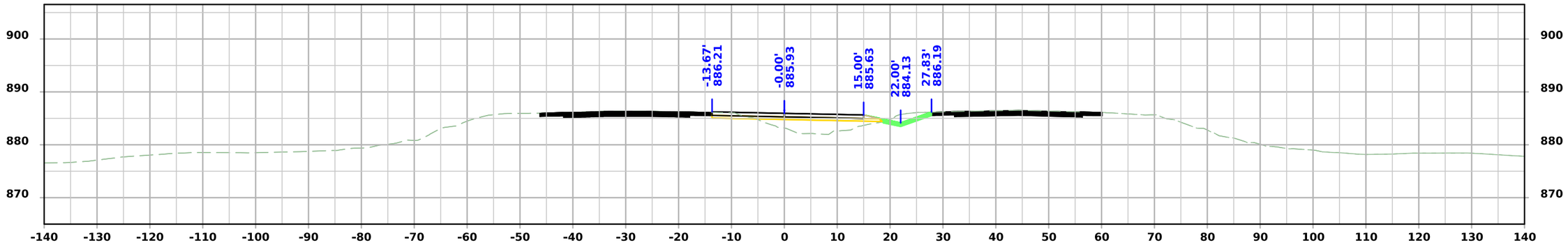
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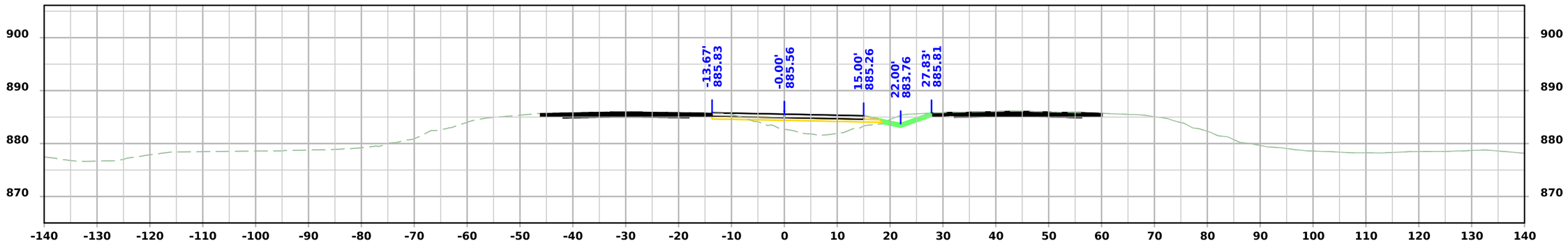
US HWY 30 DETOUR PAVING



STA 1294+50.00



STA 1294+00.00

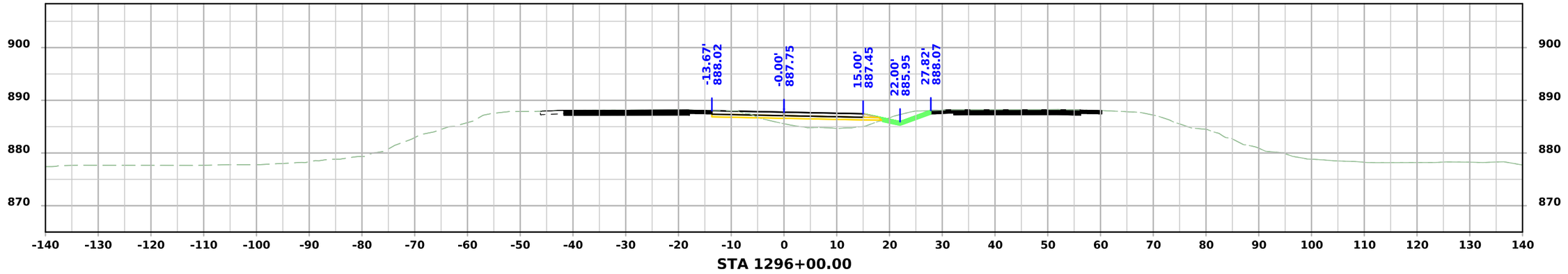


STA 1293+50.00

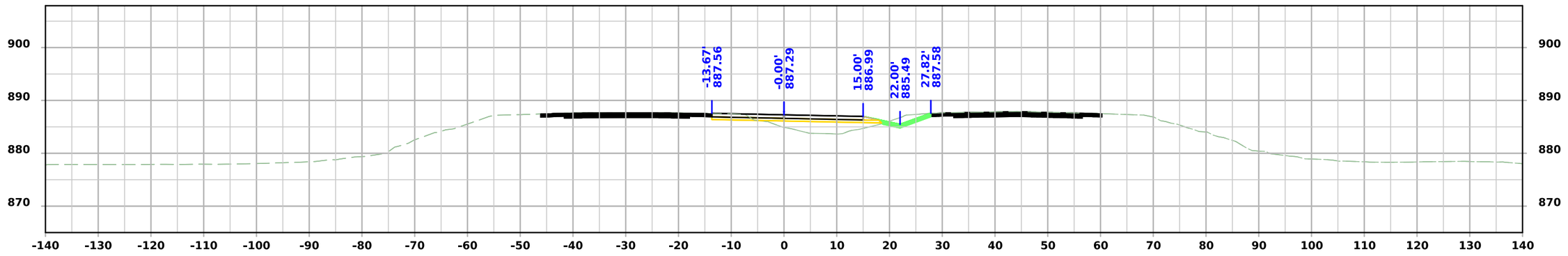
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.8

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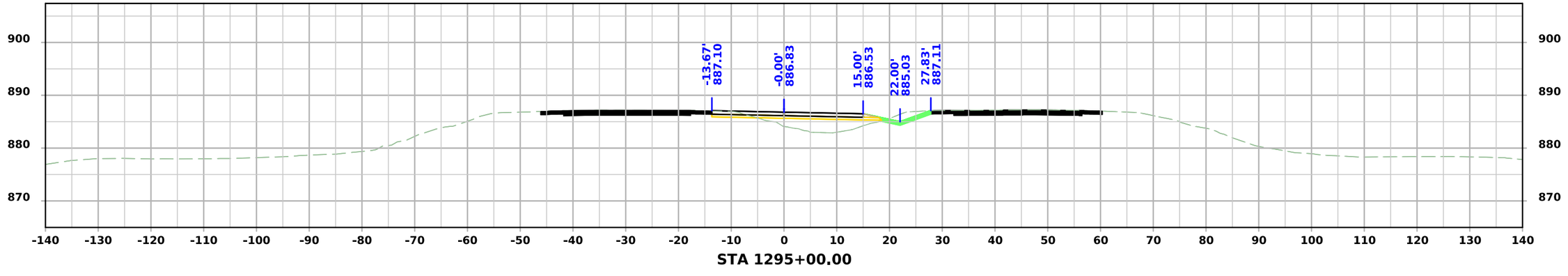
US HWY 30 DETOUR PAVING



STA 1296+00.00



STA 1295+50.00

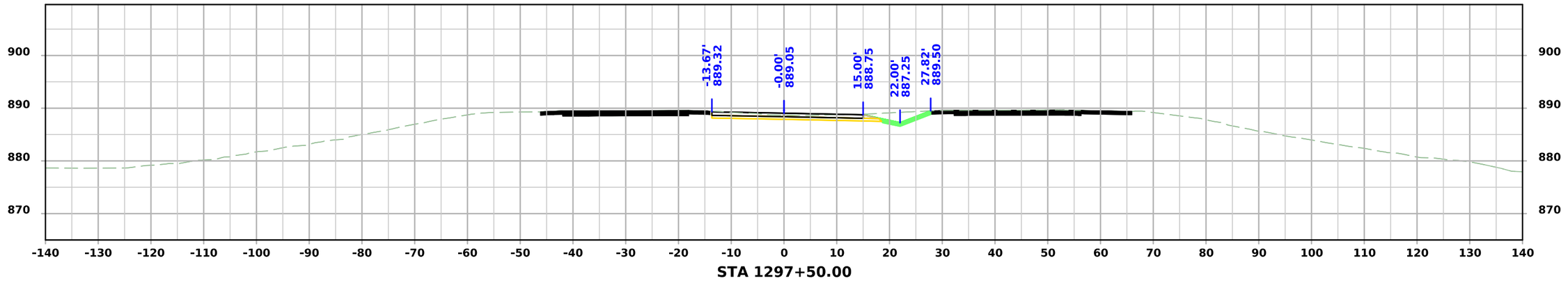


STA 1295+00.00

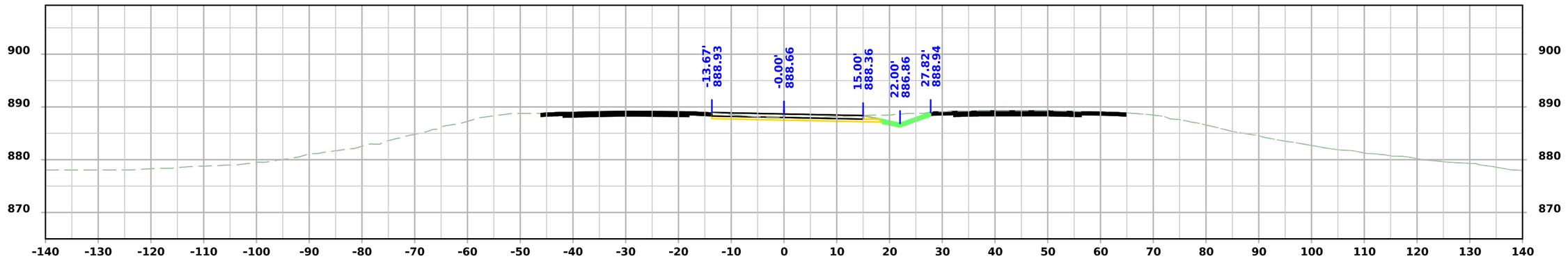
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.9

09:22:33 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_DETOUR_WHKS_85030271Z08.dgn

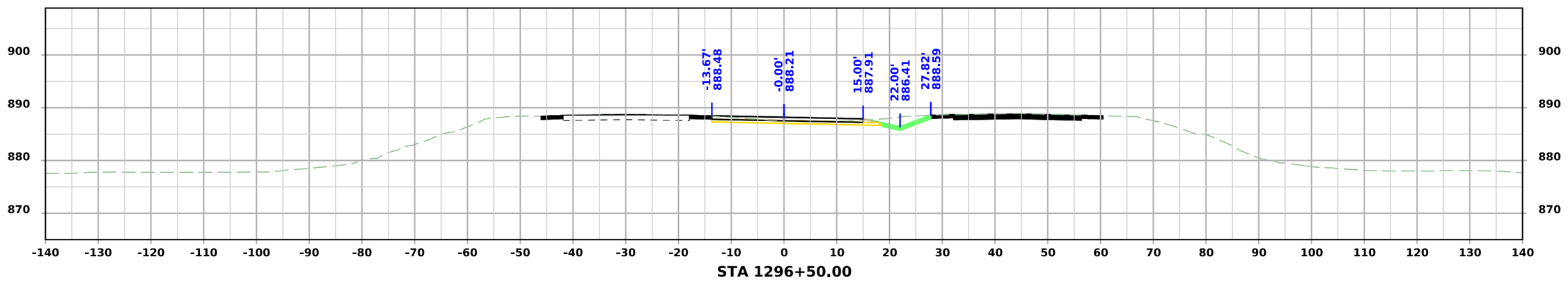
US HWY 30 DETOUR PAVING



STA 1297+50.00



STA 1297+00.00

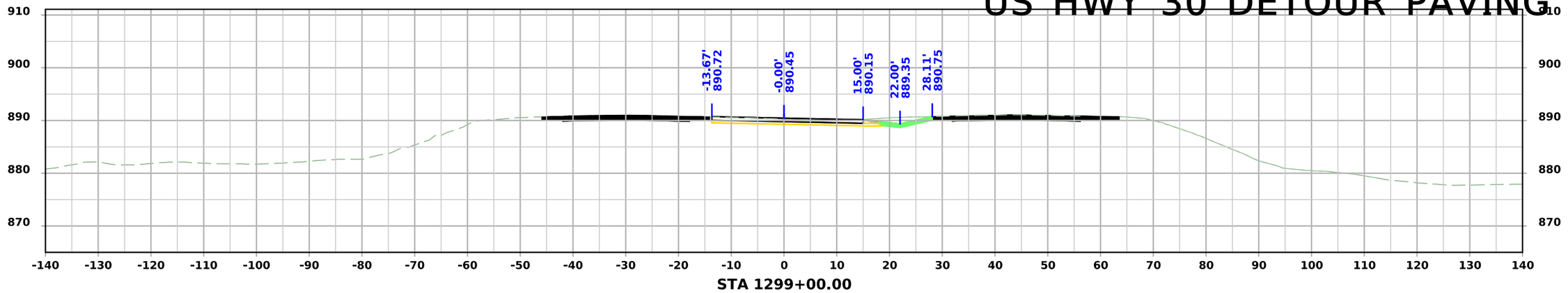


STA 1296+50.00

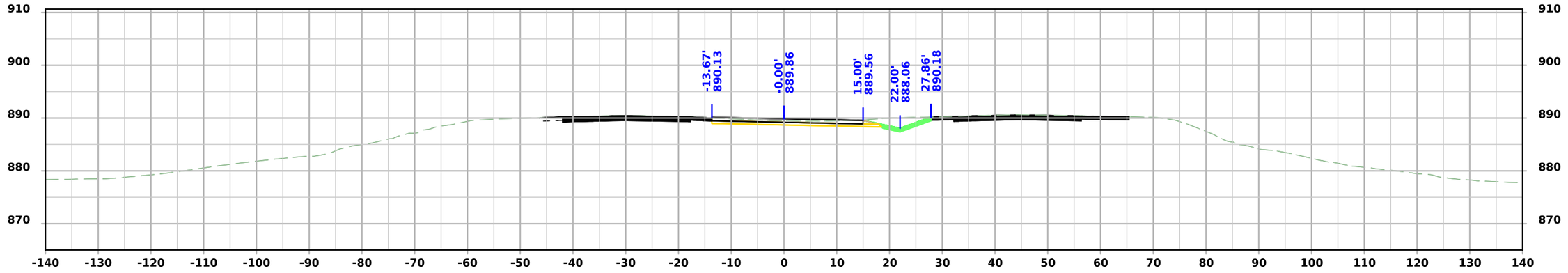
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.10

09:22:37 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_DETOUR_WHKS_85030271Z08.dgn

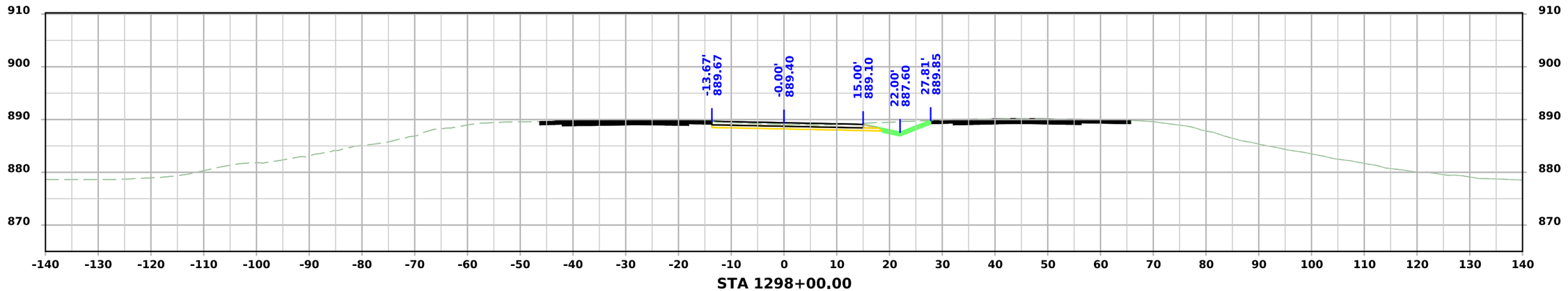
US HWY 30 DETOUR PAVING



STA 1299+00.00



STA 1298+50.00

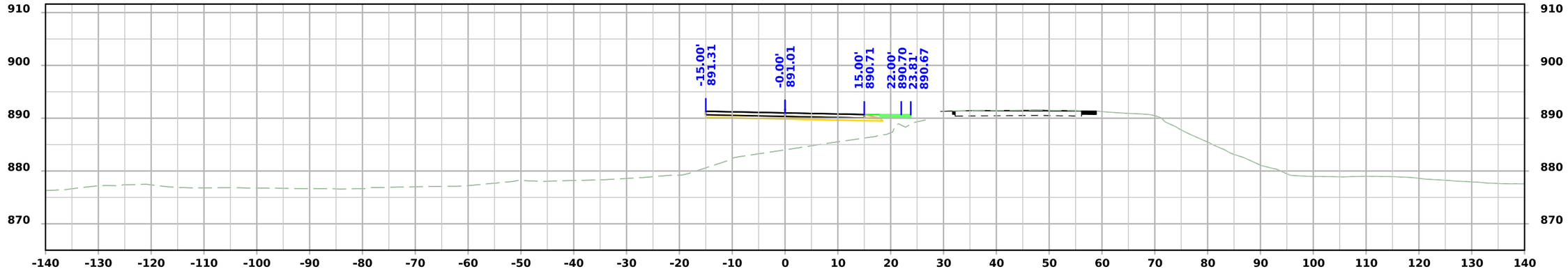


STA 1298+00.00

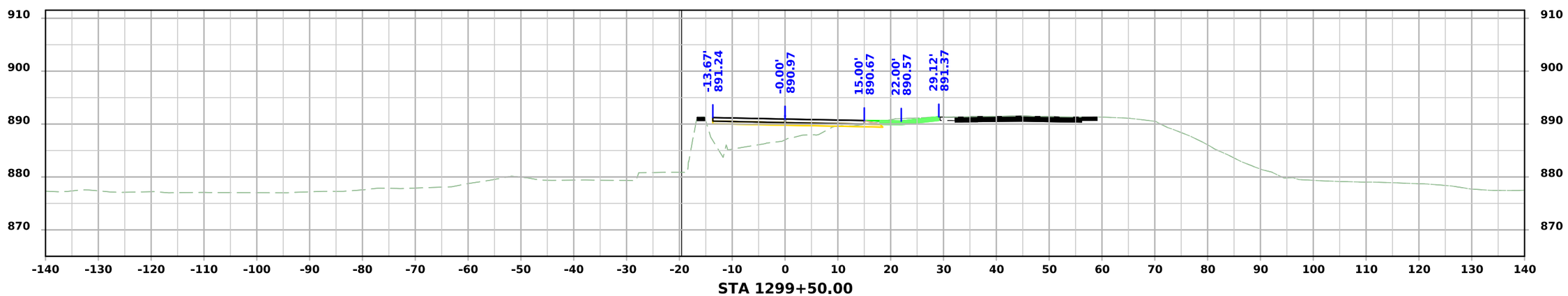
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US HWY 30 DETOUR PAVING



STA 1299+57.13

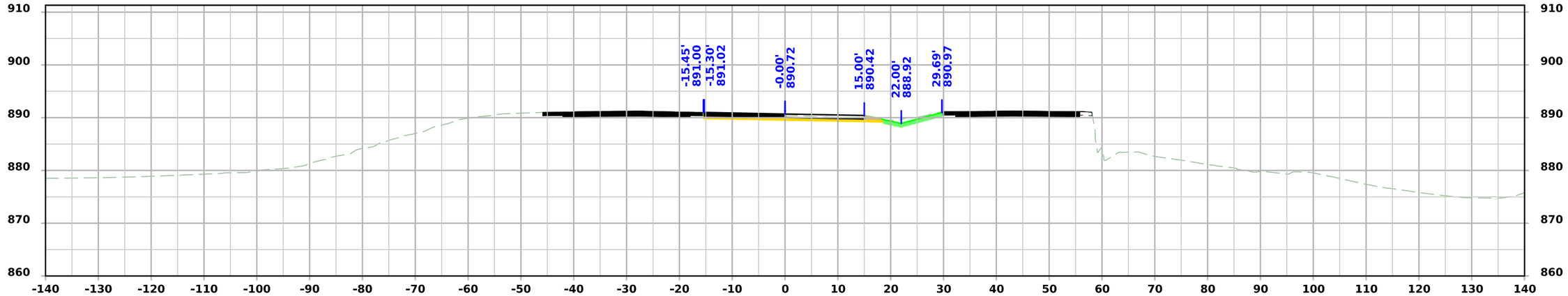


STA 1299+50.00

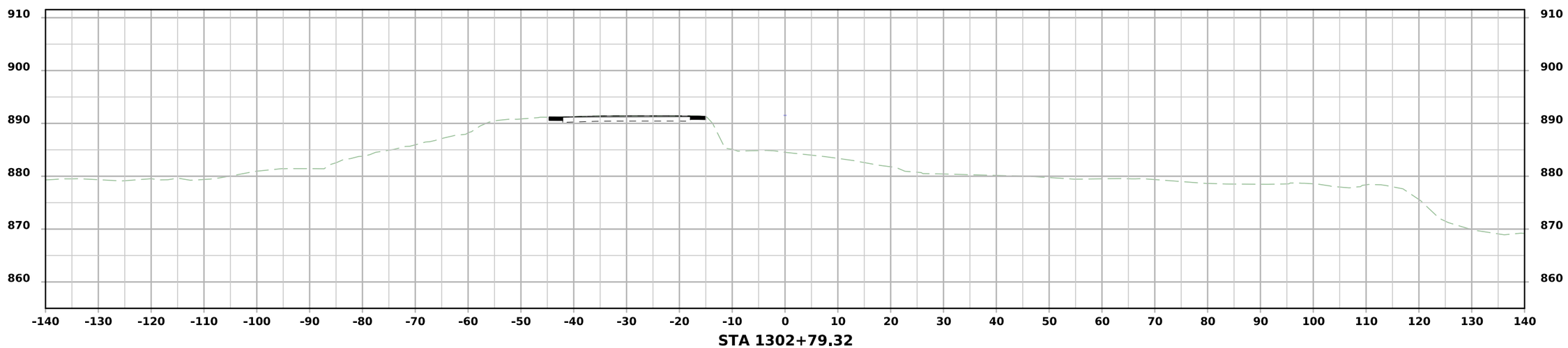
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US HWY 30 DETOUR PAVING



STA 1303+00.00

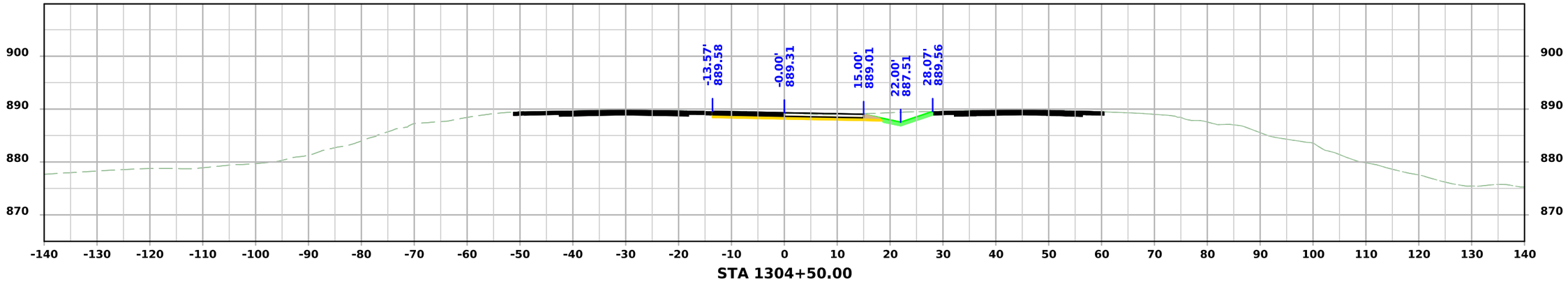


STA 1302+79.32

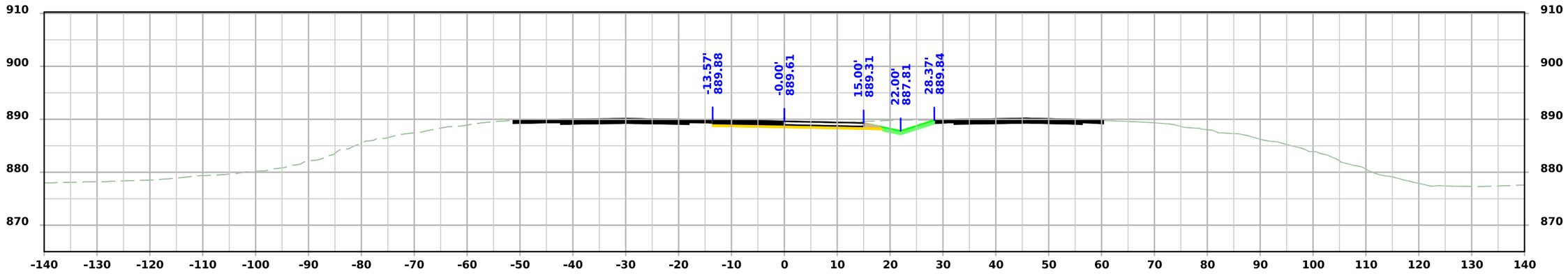
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.13	

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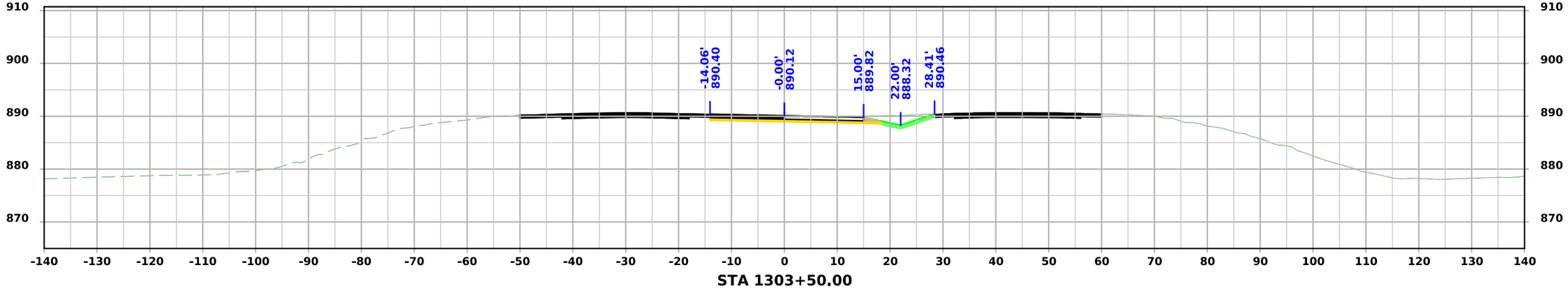
US HWY 30 DETOUR PAVING



STA 1304+50.00



STA 1304+00.00

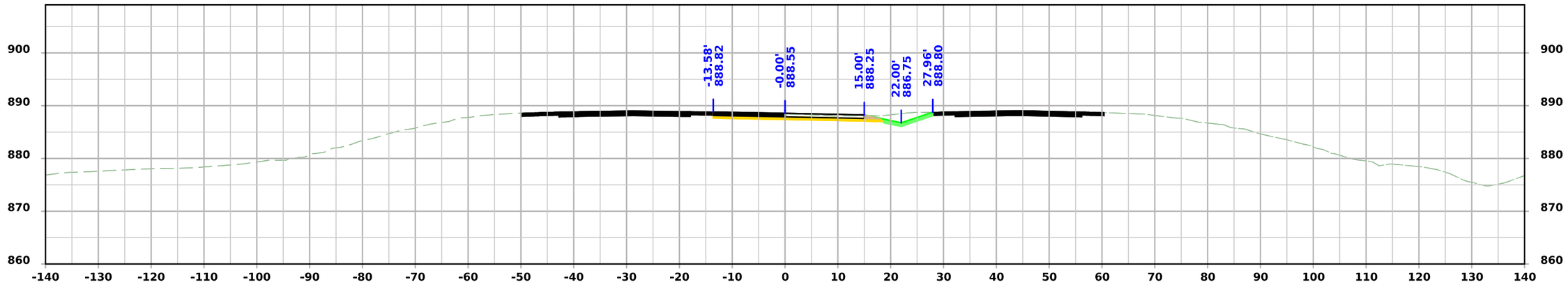


STA 1303+50.00

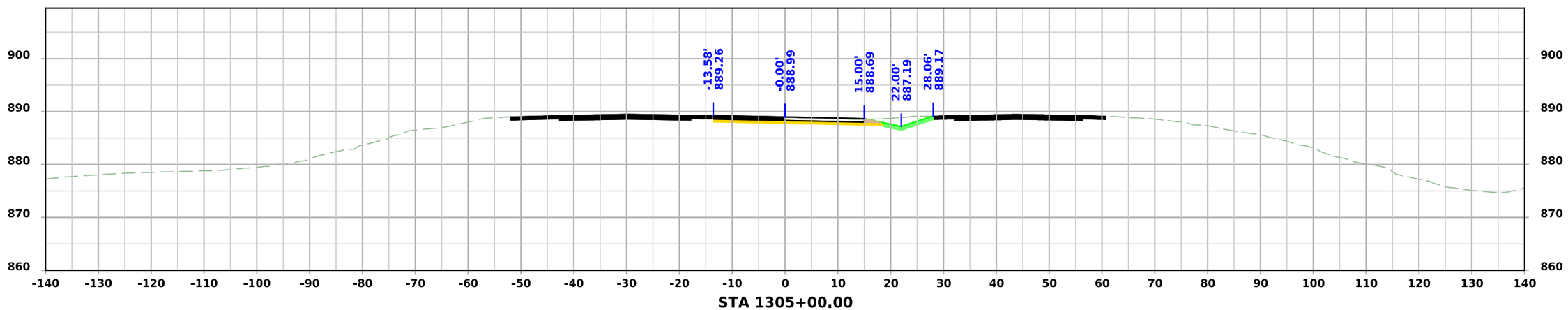
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.14	

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US HWY 30 DETOUR PAVING



STA 1305+50.00

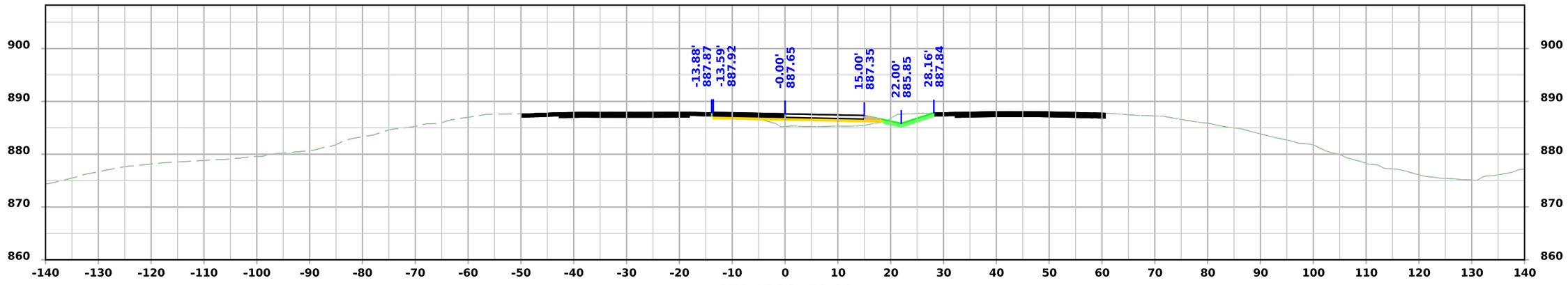


STA 1305+00.00

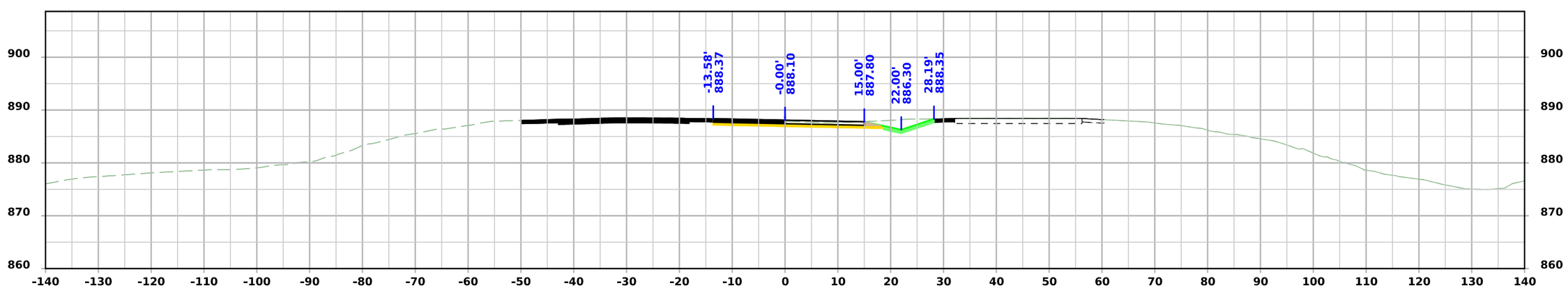
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US HWY 30 DETOUR PAVING



STA 1306+50.00

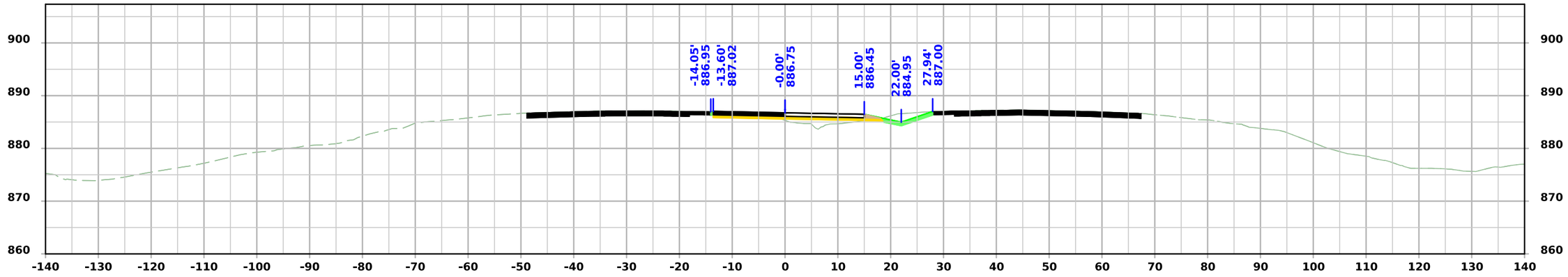


STA 1306+00.00

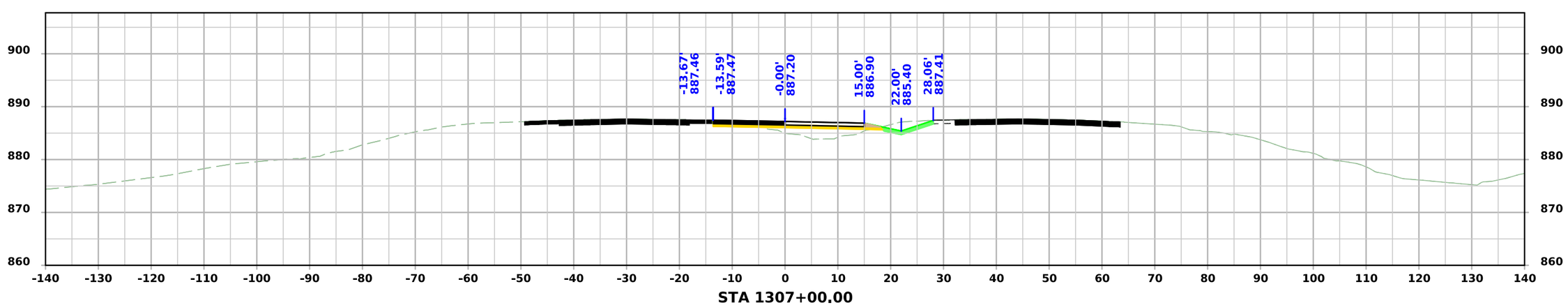
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US HWY 30 DETOUR PAVING



STA 1307+50.00

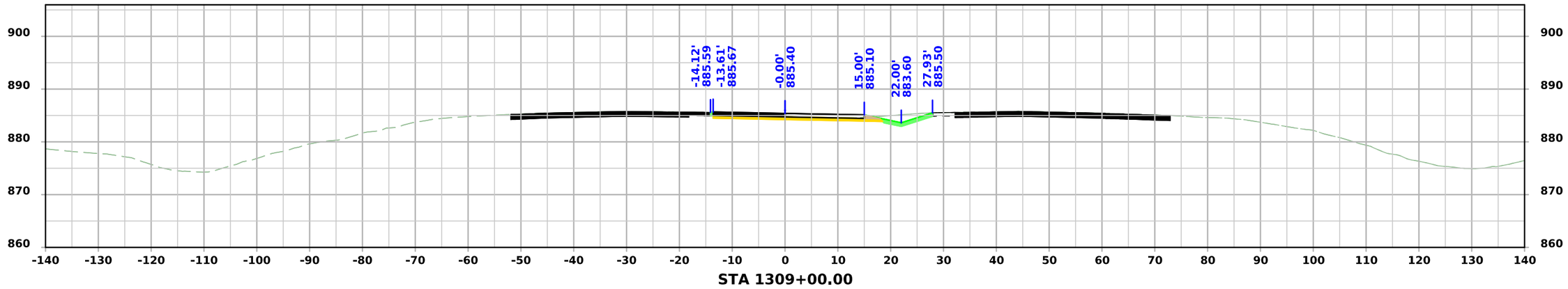


STA 1307+00.00

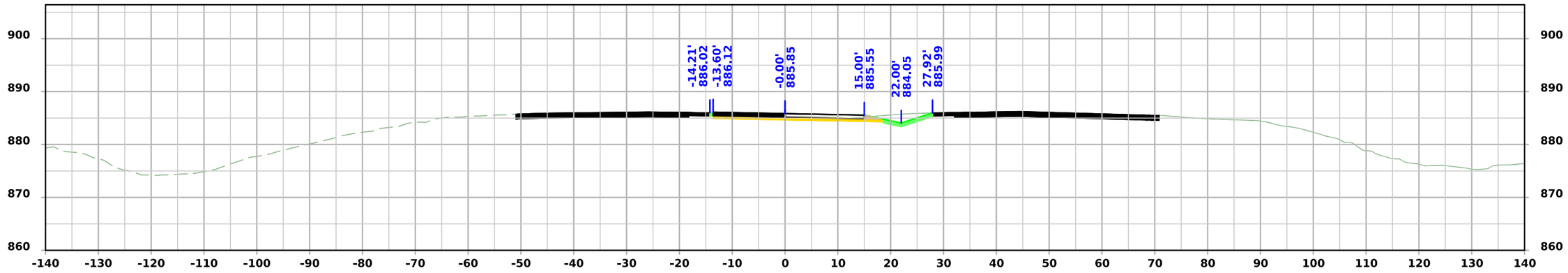
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.17	

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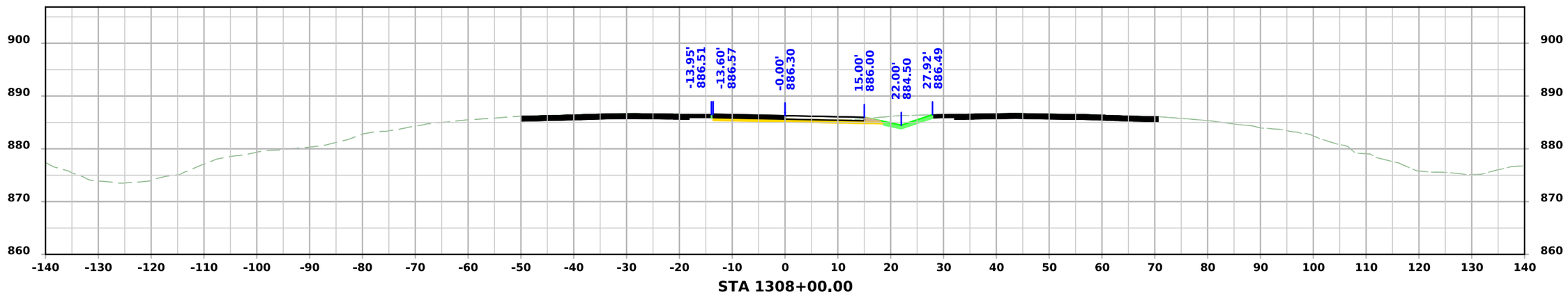
US HWY 30 DETOUR PAVING



STA 1309+00.00



STA 1308+50.00

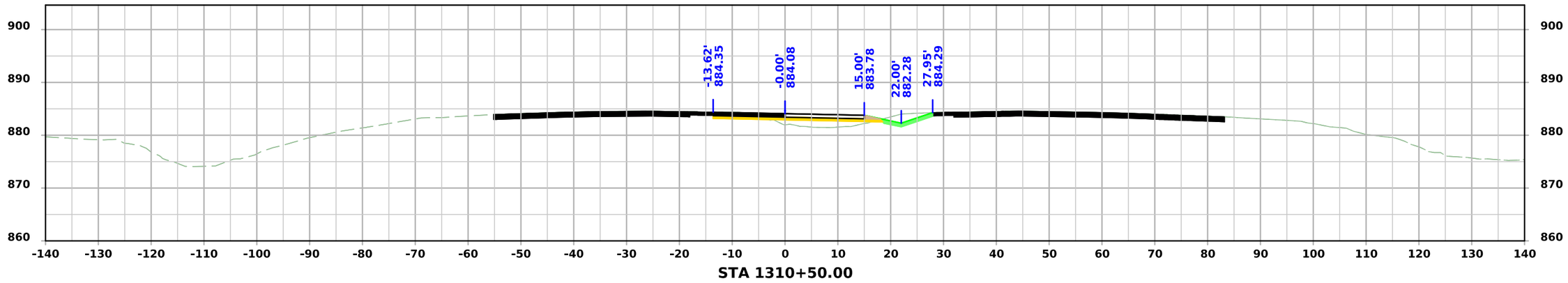


STA 1308+00.00

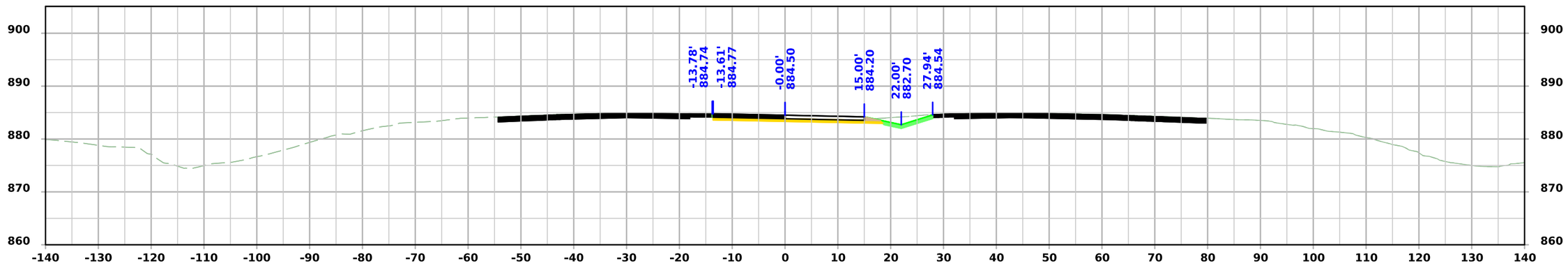
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.18	

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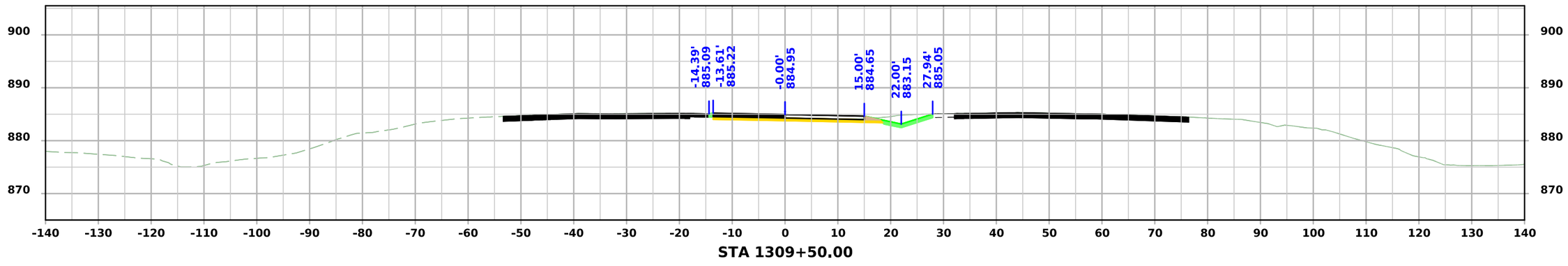
US HWY 30 DETOUR PAVING



STA 1310+50.00



STA 1310+00.00

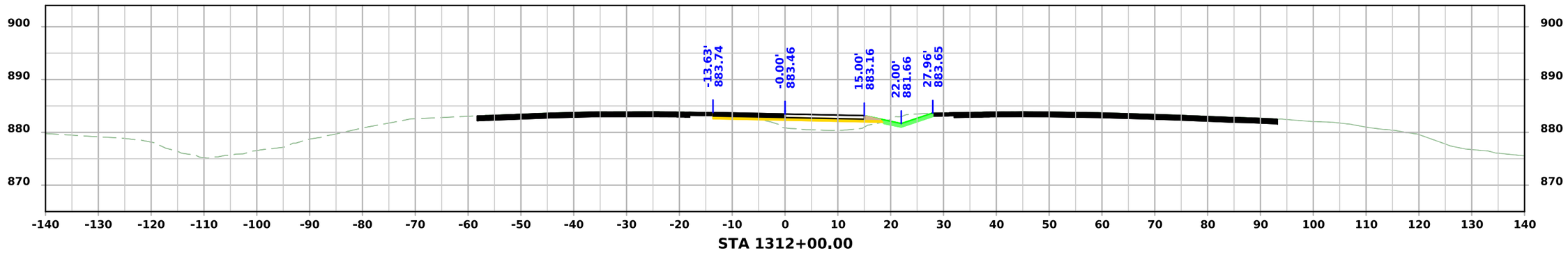


STA 1309+50.00

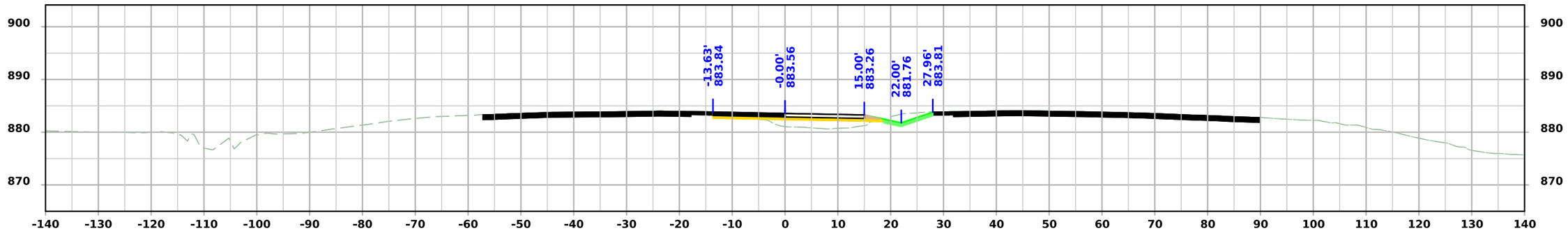
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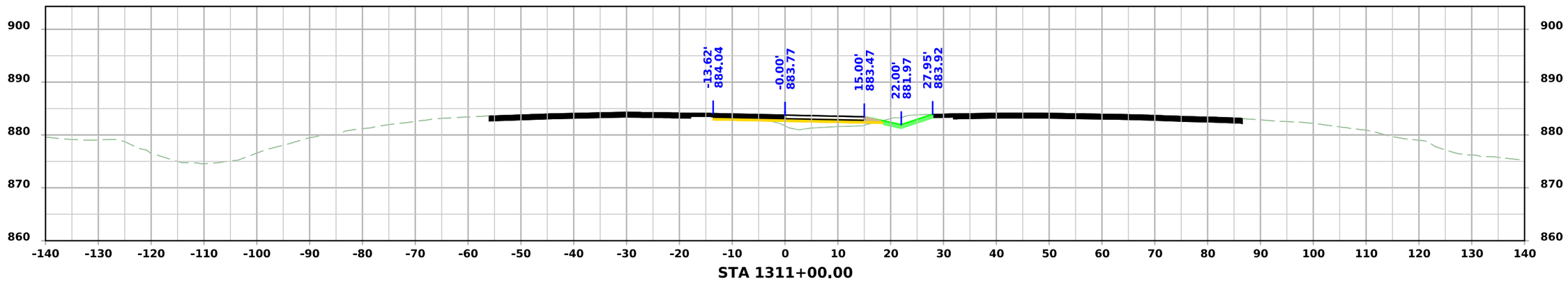
US HWY 30 DETOUR PAVING



STA 1312+00.00



STA 1311+50.00

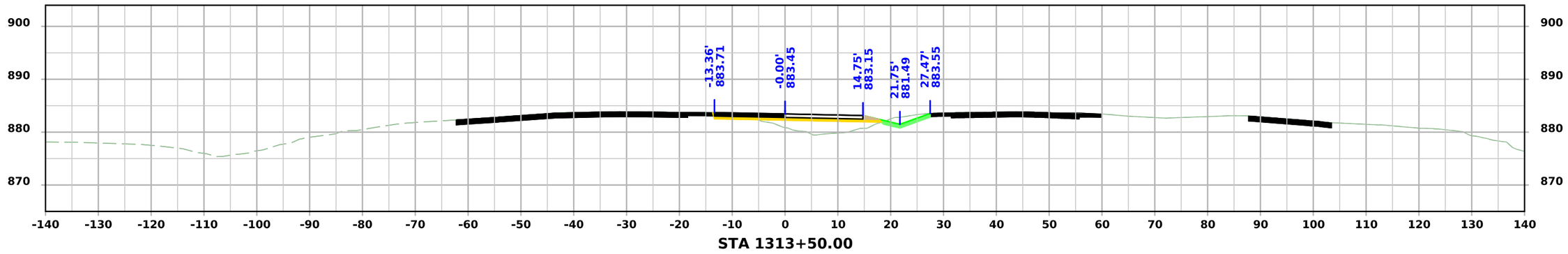


STA 1311+00.00

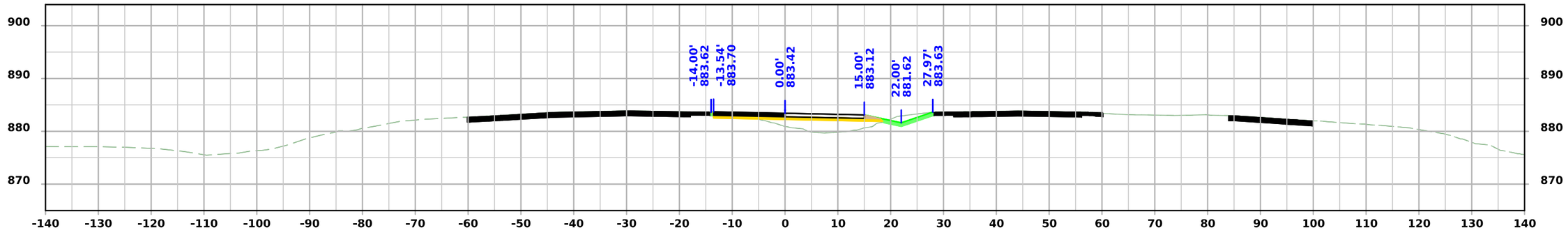
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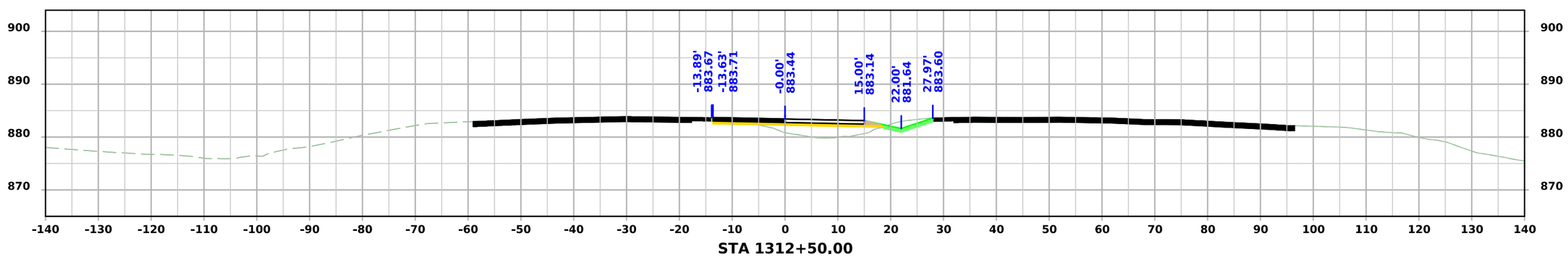
US HWY 30 DETOUR PAVING



STA 1313+50.00



STA 1313+00.00

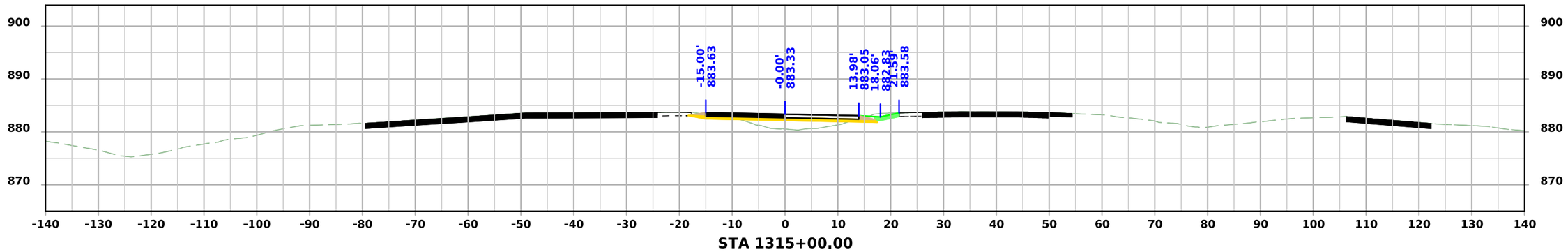


STA 1312+50.00

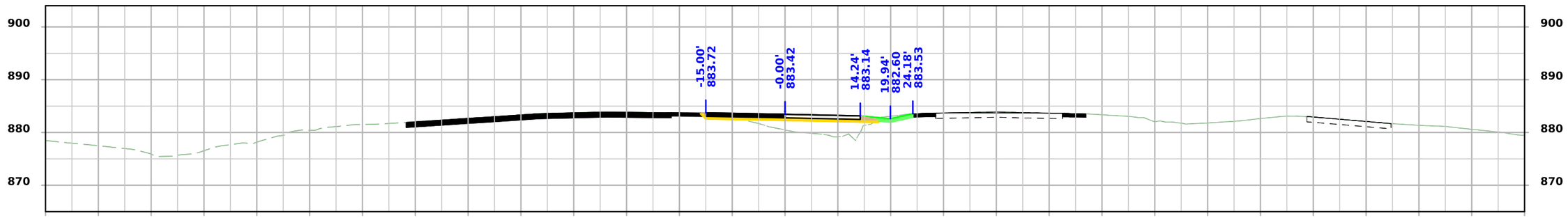
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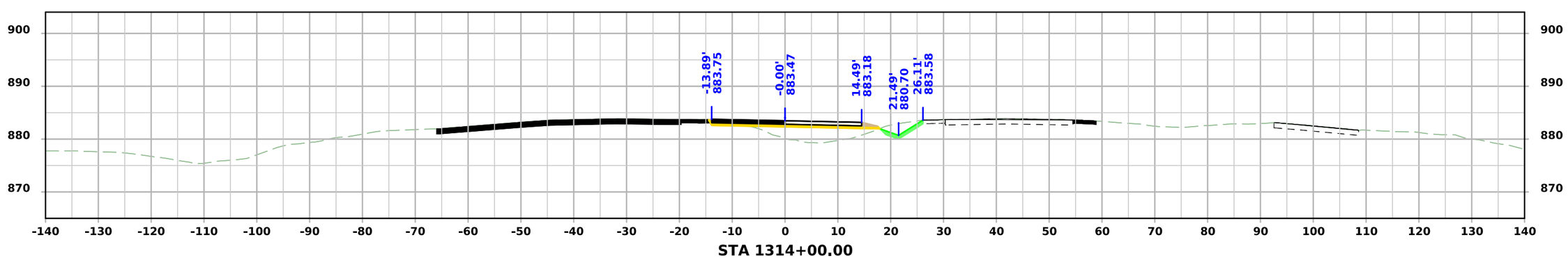
US HWY 30 DETOUR PAVING



STA 1315+00.00



STA 1314+50.00

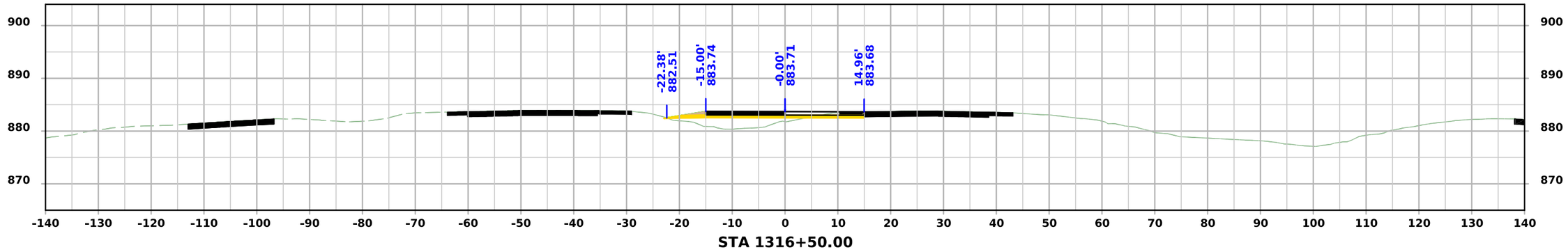


STA 1314+00.00

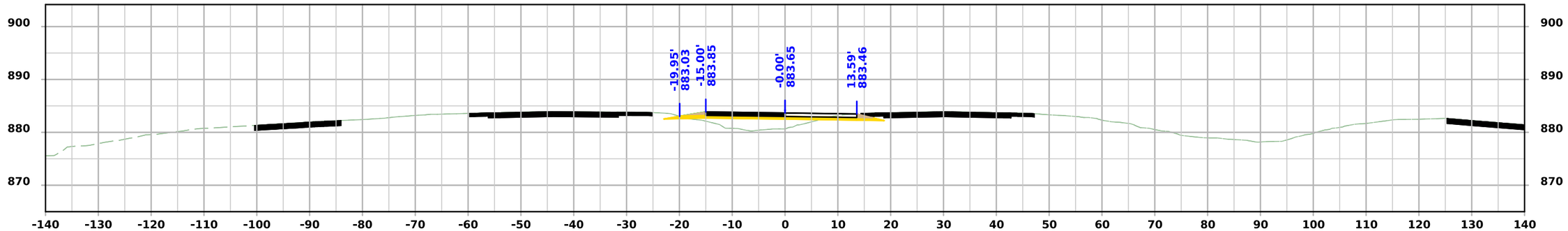
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.22

09:23:11 02/08/2024 skoontz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8503002019\Design\(302) - Grade and Pave in Median\Cross Sections\XS_DETOUR_WHKS_85030271Z08.dgn

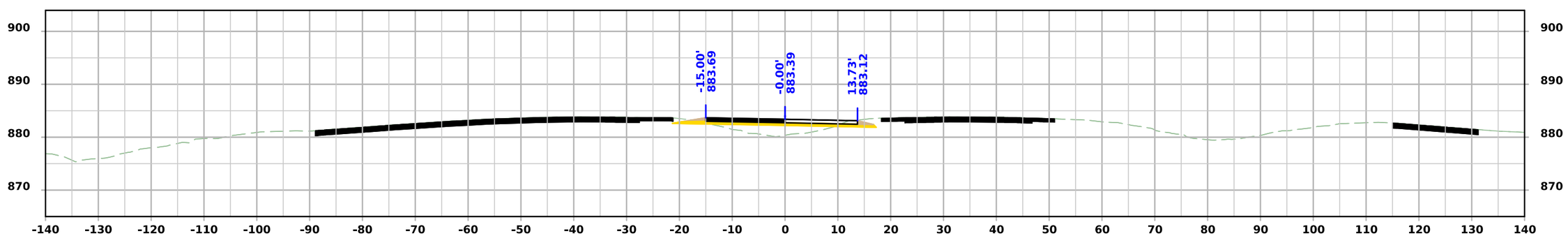
US HWY 30 DETOUR PAVING



STA 1316+50.00



STA 1316+00.00

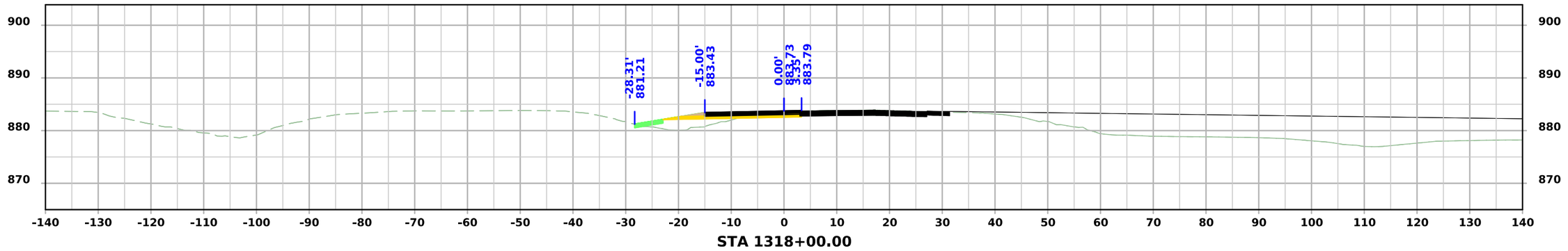


STA 1315+50.00

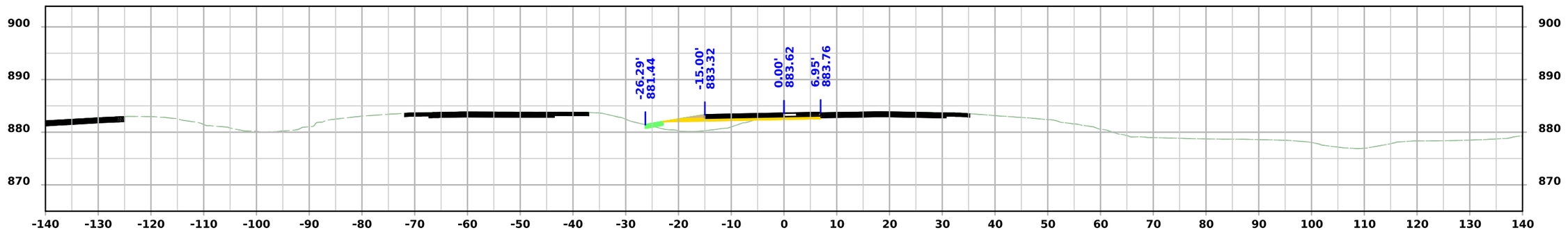
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.23	

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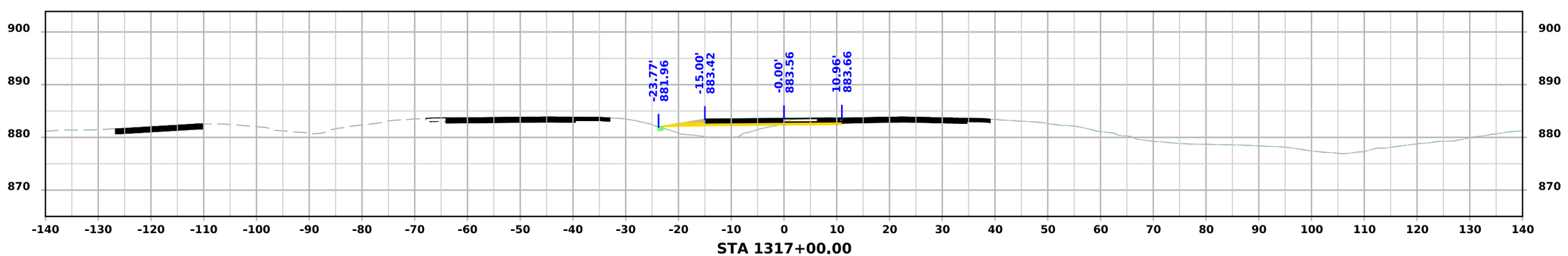
US HWY 30 DETOUR PAVING



STA 1318+00.00



STA 1317+50.00

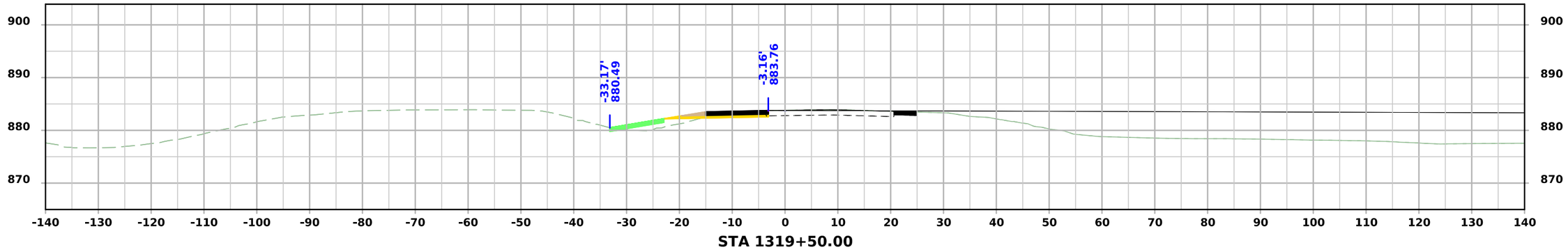


STA 1317+00.00

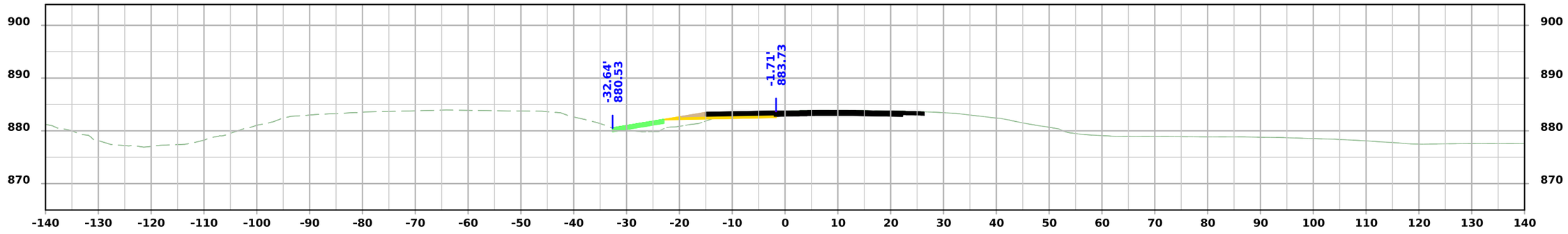
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.24	

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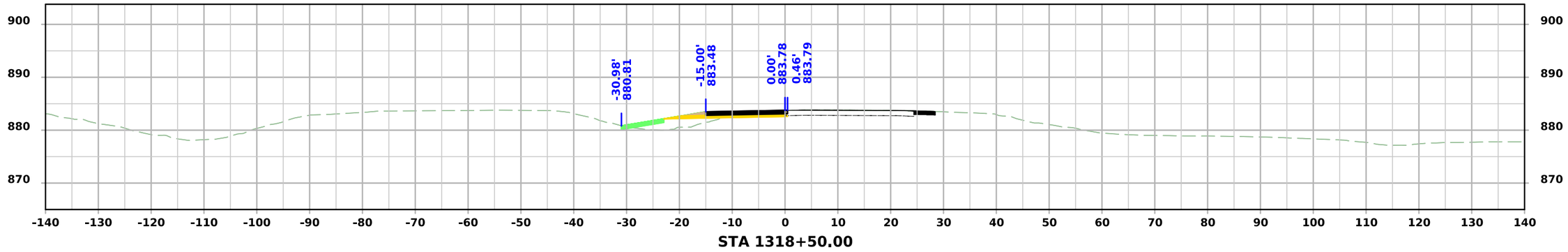
US HWY 30 DETOUR PAVING



STA 1319+50.00



STA 1319+00.00

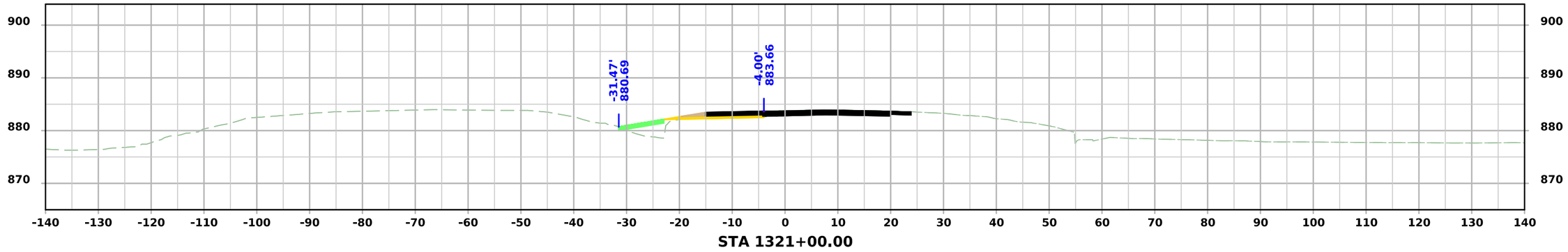


STA 1318+50.00

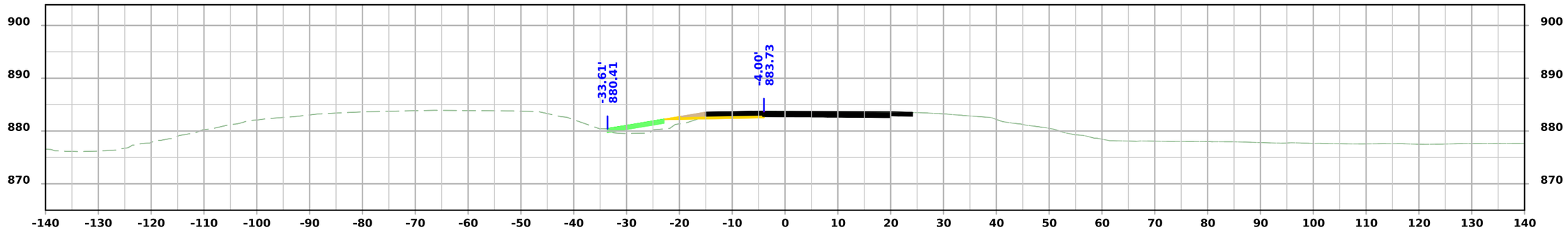
FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.25

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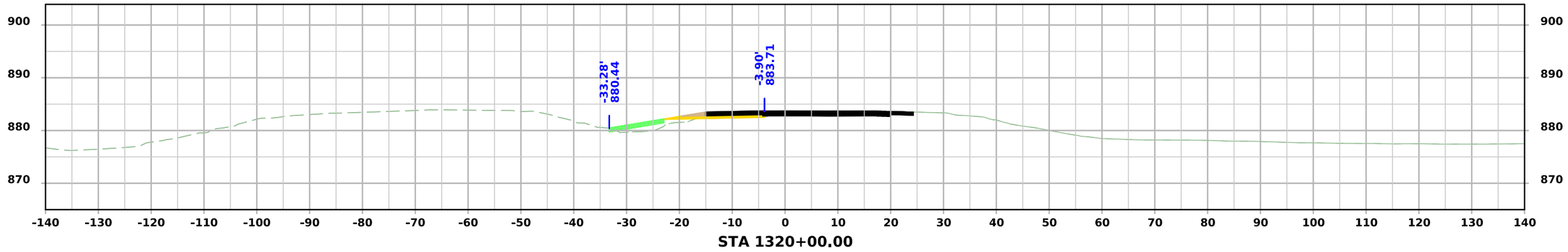
US HWY 30 DETOUR PAVING



STA 1321+00.00



STA 1320+50.00

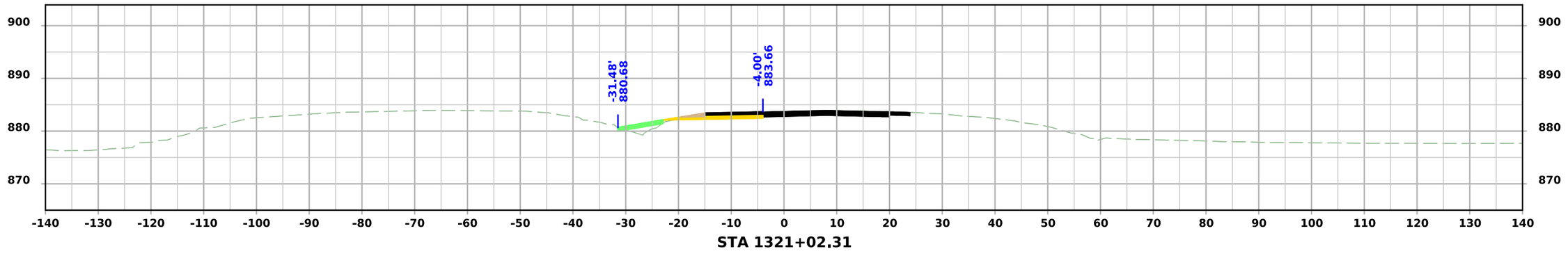


STA 1320+00.00

FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.26

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US HWY 30 DETOUR PAVING



FILE NO.	ENGLISH	DESIGN TEAM WHKS & CO.	STORY COUNTY	PROJECT NUMBER NHSX-030-5(302)--3H-85	SHEET NUMBER Z.27

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