IOWA DEPARTMENT OF TRANSPORTATION

TO OFFICE: Right of Way

DATE: April 30, 2013

ATTENTION: M. J. Sankey

REF. : Woodbury County
Proj. #: NHSX-020-1(116)--3H-97
ROW#: NHSN-020-1(80)--2R-97
PIN: 98-97-020-010-01

FROM: Paul W. Flattery

OFFICE: Design

SUBJECT: Right of Way Submittal (D5) **Revision 3**

This project involves grading of the westbound lanes on US 20 from east of Moville continued east to just west of Correctionville. Traffic will be maintained via staging. The reasons for this second revision are due to:

1.) additional TE needed near Sta. 10586+20 Rt. to allow working room for culvert jacking.
2.) the removal of original proposed culvert at Sta. 10634+00 with the replacement of new proposed culvert at Sta. 10634+50, along with the addition of a right ditch grade around the return per land owner's request.
3.) additional TE needed near Sta. 10719+50 Rt. for shaping of ditch outlet.

Access rights are to be acquired on this project.

The Project Directory is pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702001098\Design\Section 1\. No printed plan sheets or cross sections are included with this submittal. PDF files of the sheets can be found on the network in pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702001098\Design\Section 1\D5 Submittal\. Plans and cross section files have been sheeted for batch plotting. The MicroStation and GEOPAK files, chains, and profiles are described in ("NHSX-020-1(116)--3H-97_Project Documentation.xls").

Construction need lines required for this project are at the catch (intercept) point and have been added to the design file. The Office of ROW is advised to attach the following design models:

File	Model	Level	Need Type
97020077.dsn	Road_Design_Line_Work	dsnGroundlineIntercept	Permanent
97020077.dsn	Road_Design_Line_Work	dsnFence	Permanent ROW for Snow Fence

Culverts were partially completed (**Partial B1**) on 11/20/12. Proposed structures are shown on level "brgPreStructureNew" and "brgPreStructureFuture" in the plan view and referenced in to the design file as 97020116(Kevin's).str and 97020116(Rob's).str from

the “BRPrelim” folder.

Soils Design has completed the (S2) for this project on 4/13/12.

No special mitigation areas are required for this project.

Utilities on this project are as follows:

Century Link (formerly Qwest)	Telephone
Correctionville, City of	Sanitary Sewer
Frontier Communications of Iowa	Telephone
Iowa Network Services	Local Fiber Optic
Iowa Network Services	Local Fiber Optic
Knology	Local Fiber Optic
MidAmerican Energy Company	Electric Transmission
MidAmerican Energy Company	Electric Transmission
Western Iowa Telephone Association	Cable TV
Woodbury County Rural Electric Cooperative	Electric Distribution

The current letting date is 4-15-2014
You may indicate your acceptance or request additional information by e-mail.

PWF: mk
Attach.
cc:

M. J. Kennerly	N. L. McDonald
K. D. Nicholson	G. A. Novey
D. Maifield	D. R. Claman
R. L. Stanley	J. P. Rost
Judy Lensing	S. C. Marler
E. J. Ranney	L. C. Funnell
D. A. Widick	T. L. Gettings
S. J. Gent	M. A. Swenson
T. Crouch	J. W. Smith
E. C. Wright	D. A. Popp
J. N. McCollough	B. Bradley
J. Vortherms	S. Tymkowicz
T. Lazarowicz	D. Manley
A. Johnson	

GRADING

NHSX-020-1(116)--3H-97

WOODBURY Co.

LETTING DATE 4/15/2014

INDEX OF SHEETS

No.	DESCRIPTION
A Sheets	**Title Sheets**
A.1	Title Sheet
A.2	Location Map
B Sheets	**Typical Cross Sections and Details**
B.1 - 7	Typical Cross Sections and Details
D Sheets	**Mainline Plan and Profile Sheets**
* D.1	Legend and Symbol Information Sheet
* D.2 - 49	Mainline - US 20
E Sheets	**Side Road Plan and Profile Sheets**
* E.1	Jasper Avenue
* E.2 - 3	Jewell Avenue
* E.4	Knox Avenue
* E.5	Kossuth Avenue
* E.6	Lee Avenue
* E.7 - 8	Lucas Avenue
* E.9	Lenox Avenue
* E.10	Minnesota Avenue
* E.11	Mason Avenue
G Sheets	**Survey Sheets**
G.1 - 3	Horizontal Control Tab. for Mainline and Side Roads
G.4 - 10	Reference Ties and Bench Marks
J Sheets	**Traffic Control and Staging Sheets**
* J.1	Stage 1 & 2
* J.2	Stage 3 & 4
* J.3	Final Stage
W Sheets	**Mainline Cross Sections**
W.1 - 558	ML US 20
X Sheets	**Side Road Cross Sections**
X.100 - 111	SR Jasper Avenue
X.200 - 214	SR Jewell Avenue
X.300 - 312	SR Knox Avenue
X.400 - 415	SR Kossuth Avenue
X.500 - 512	SR Lee Avenue
X.600 - 624	SR Lucas Avenue
X.700 - 710	SR Lenox Avenue
X.800 - 817	SR Minnesota Avenue
X.900 - 912	SR Mason Avenue
Y Sheets	**Entrance Cross Sections**
Y.1 - 3	ML US 20
Y.4 - 13	Side Roads

* Color Plan Sheets

Iowa Department of Transportation

Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

WOODBURY COUNTY

GRADING

US 20 From E. of Moville E. to W. of Correctionville

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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

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

REVISIONS

TOTAL
789
PROJECT IDENTIFICATION NUMBER
98-97-020-010-01
PROJECT NUMBER
NHSX-020-1(116)--3H-97
R.O.W. PROJECT NUMBER
NHSN-020-1(080)--2R-97

MILEAGE SUMMARY 105-1 09-27-94

Div.	Location	Lin. Ft.	Miles
1	Sta. 10219+00.00 - Sta. 10820+00.00	60,100	11.38
	Total	60,100	11.38

For Project Location Map
Refer to Sheet A.2

DESIGN DATA RURAL 101-4 04-30-02

2019 AADT	4,700	V.P.D.
2039 AADT	6,200	V.P.D.
2039 DHV	640	V.P.H.
TRUCKS	22	%
Total Design ESALs	9,900,000	

INDEX OF SEALS

SHEET NO.	NAME	TYPE
A.1	Paul Flattery	Primary Signature Block

D3 Submittal	1-25-2012
D5 Submittal	3-15-2012
Letting Date	4-15-2014

PRELIMINARY PLANS

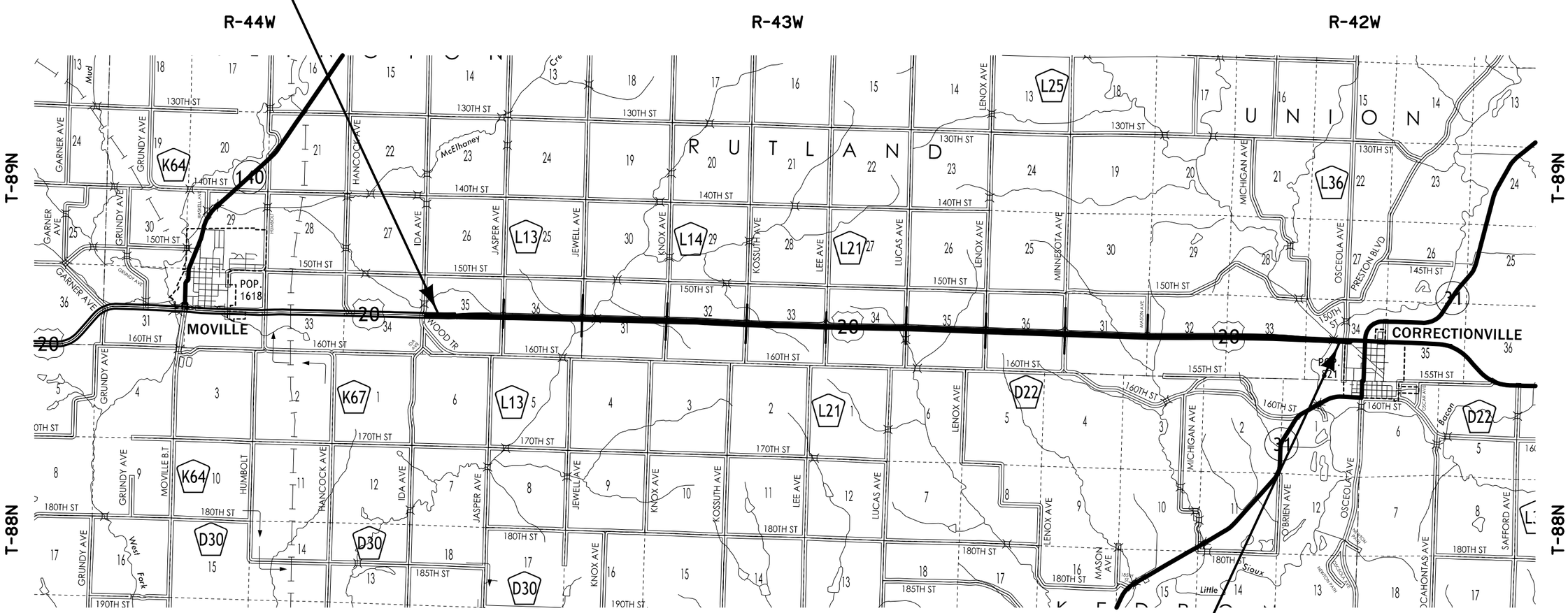
Subject to change by final design.

D5 PLAN – Date: 4/30/2013
Revised 3

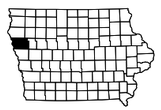
ENGLISH | IOWA DOT | DESIGN TEAM Flattery\Johnson | WOODBURY COUNTY | PROJECT NUMBER NHSX-020-1(116)--3H-97 | SHEET NUMBER A.1

4:09:44 PM 5/22/2013 ajohns1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702001098\Design\Section1\97020077A.sht

STA. 10219+00.00
BEGIN PROJECT
MP 21.50



STA. 10820+00.00
END PROJECT
MP 32.50

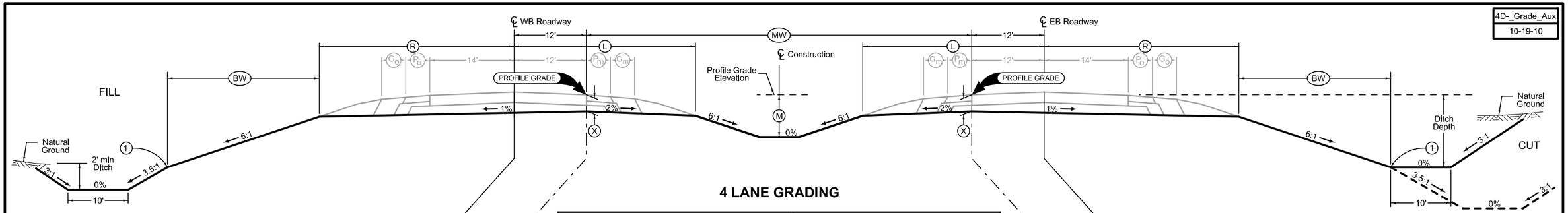


LOCATION MAP SCALE
0 1 2
Miles

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER A.2

10:53:03 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077A.sht

4D-_Grade_Aux
10-19-10



4 LANE GRADING

LOCATION			DIMENSIONS					
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches	(BW) Feet	(MW) Feet	(M) Feet
US 20	10253+00.00	10787+83.33	28.09	32.09	16.00	19.59	82.00	4.00
US 20	10787+83.33	10820+00.00	28.09	32.09	16.00	19.59	82.00-16.00	4.00-0



Auxiliary Lane Grading

LOCATION			(L) Feet
ROAD IDENTIFICATION	STATION TO STATION		
US 20	10263+96.00	10266+76.00	41.27
US 20	10316+80.00	10319+60.00	41.27
US 20	10372+45.00	10375+25.00	41.27
US 20	10425+40.00	10428+20.00	41.27
US 20	10478+38.00	10481+18.00	41.27
US 20	10531+18.00	10533+98.00	41.27
US 20	10584+00.00	10586+80.00	41.27
US 20	10636+60.00	10639+40.00	41.27

Auxiliary Lane Grading

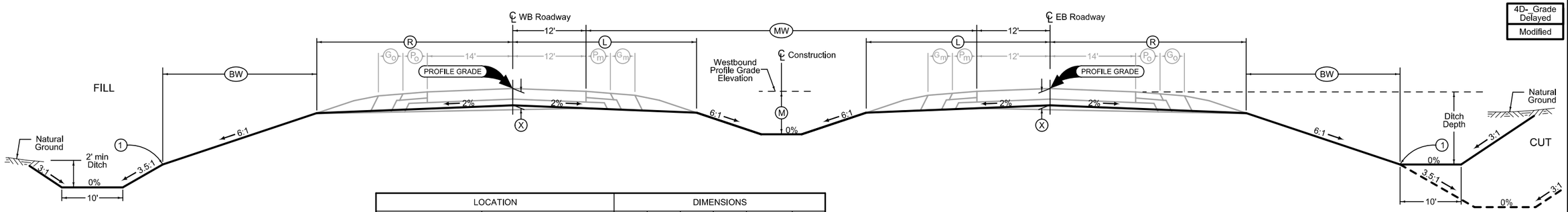
LOCATION			(L) Feet
ROAD IDENTIFICATION	STATION TO STATION		
US 20	10259+40.00	10262+20.00	41.27
US 20	10312+20.00	10315+00.00	41.27
US 20	10367+85.00	10370+65.00	41.27
US 20	10420+80.00	10423+60.00	41.27
US 20	10473+78.00	10476+58.00	41.27
US 20	10526+58.00	10529+38.00	41.27
US 20	10579+40.00	10582+20.00	41.27
US 20	10632+00.00	10634+80.00	41.27
US 20	10686+48.00	10689+28.00	41.27

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

See Plan & Profile 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.

US 20
Mainline



4D-_Grade Delayed
Modified

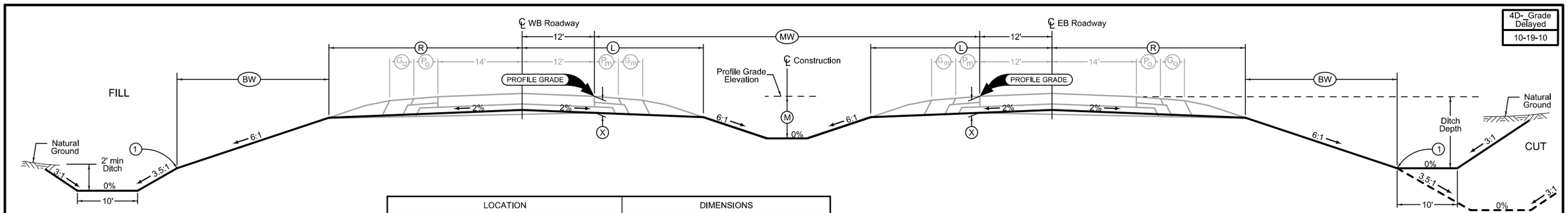
LOCATION			DIMENSIONS					
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches	(BW) Feet	(MW) Feet	(M) Feet
US 20 (WB)	20219+00.00	20253+00.32	28.09	31.82	16.00	19.86	60.00-82.00	4.00
US 20 (EB)	30219+00.00	30252+99.70	28.09	31.82	16.00	19.86	60.00-82.00	4.00

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.

4 LANE GRADING
(Delayed Paving)



4D-_Grade Delayed
10-19-10

LOCATION			DIMENSIONS					
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches	(BW) Feet	(MW) Feet	(M) Feet
US 20	10253+00.00	10787+83.33	28.09	31.82	16.00	19.86	82.00	4.00
US 20	10787+83.33	10820+00.00	28.09	31.82	16.00	19.86	82.00-16.00	4.00-0

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

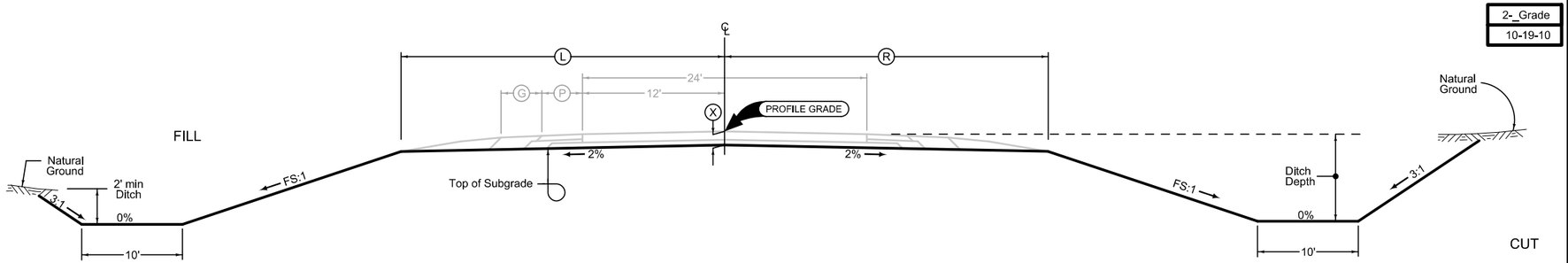
See Plan & Profiles sheets and cross sections for additional details of ditches and backslopes.

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

4 LANE GRADING
(Delayed Paving)

LOCATION			DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches	FS
Lee Avenue	507+00.00	515+50.00	24.85	24.85	16.00	3
Minnesota Avenue	804+00.00	824+25.00	24.85	24.85	16.00	3

2-_Grade
10-19-10



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

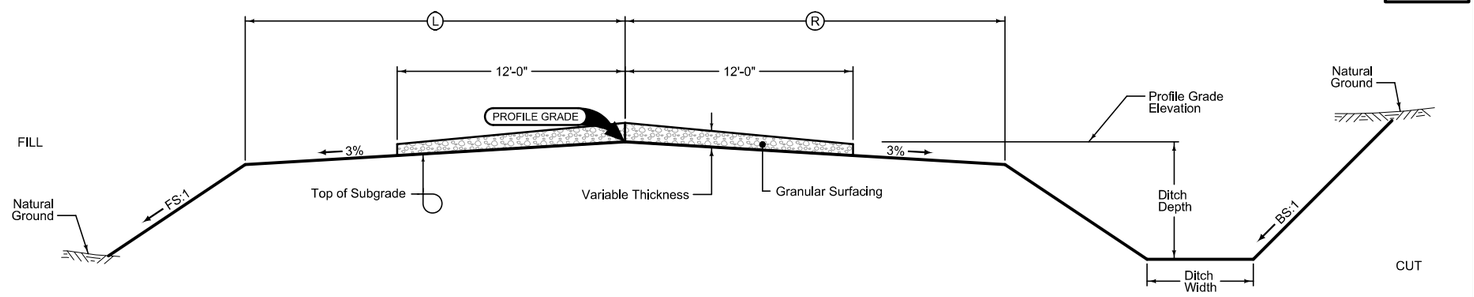
See plan & profile sheets and cross sections for additional details of ditches and backslopes.

2 LANE GRADING

Side Roads

LOCATION			DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	FS	BS
Jasper Avenue	114+25.00	122+00.00	15.00	15.00	3	3
Jewell Avenue	208+00.00	215+50.00	15.00	15.00	3	3
Knox Avenue	305+50.00	318+00.00	15.00	15.00	3	3
Kossuth Avenue	404+50.00	419+25.00	15.00	15.00	3	3
Lucas Avenue	607+50.00	622+50.00	15.00	15.00	3	3
Lenox Avenue	704+50.00	719+75.00	15.00	15.00	3	3
Mason Avenue	901+68.40	914+50.00	15.00	15.00	3	3

2-GradeGran
10-19-10

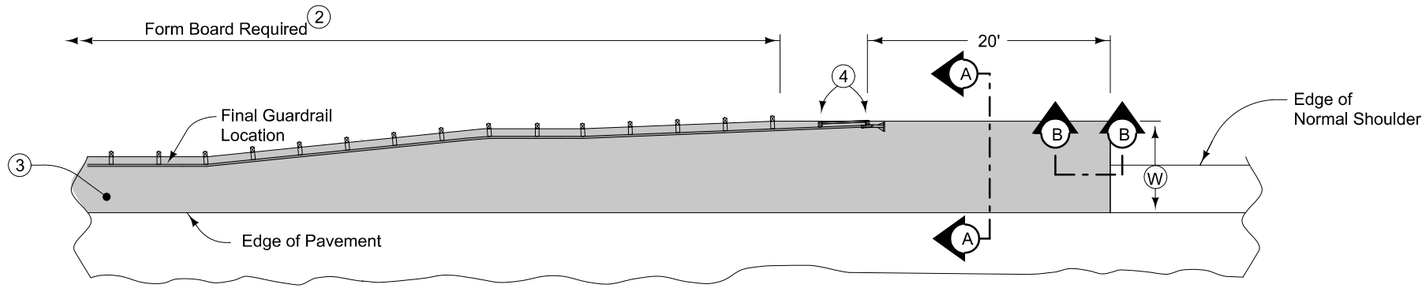


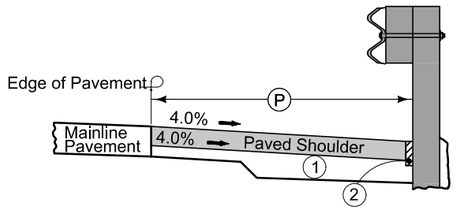
Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

See plan & profile sheets and cross sections for additional details of ditches and backslopes.

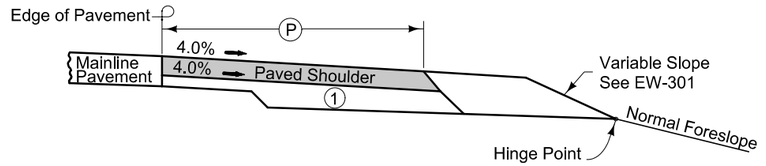
GRADING AND GRANULAR SURFACING

Side Roads

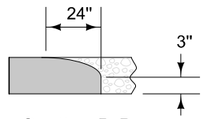




Typical Section with Form Board



Section A-A



Section B-B
Roll down at granular shoulder or earth.

6" HMA Paved Shoulder at guardrail. 7" PCC may be substituted with the following jointing layout:

Match mainline pavement joint spacing. When mainline pavement is 8" or greater in thickness, place additional transverse joints in shoulder at mid-panel of the mainline pavement. Place longitudinal joint at W/2 from edge of mainline pavement when W is greater than 10' wide. Terminate longitudinal joint at transverse joint less than 10' in length.

Compaction of HMA is required to face of guardrail post. Hand compaction will be allowed under guardrail. Removal & reinstallation of guardrail will be allowed with no additional payment.

Refer to Shoulder tabulation (112-9) for quantities.

(1) 6" subgrade treatment.

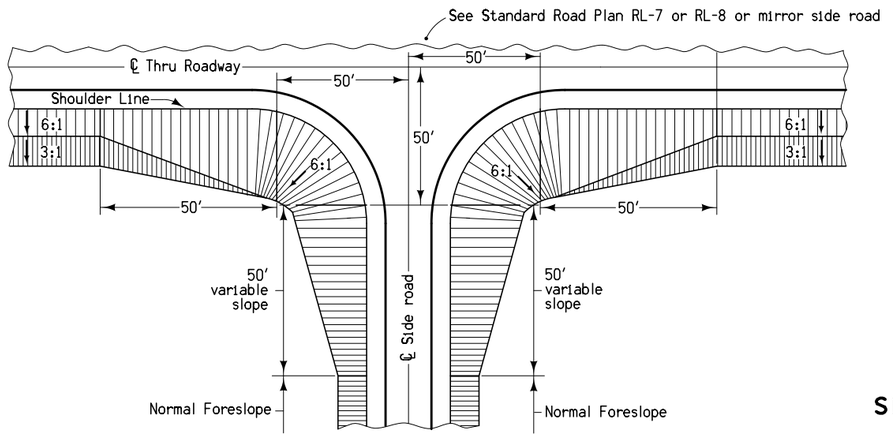
(2) When guardrail posts are installed prior to construction of paved shoulder, nail 1" x 6" untreated form boards along the face of guardrail posts for the length shown. This board is to prevent shoulder material from contacting the sides of the posts and altering the function of the guardrail. Form board not required for final 2 posts.

(3) Continue paved shoulder to existing paved shoulder or 20' beyond the end of guardrail.

(4) Shoulder may be notched for final 2 posts or post sleeves may be installed through pavement.

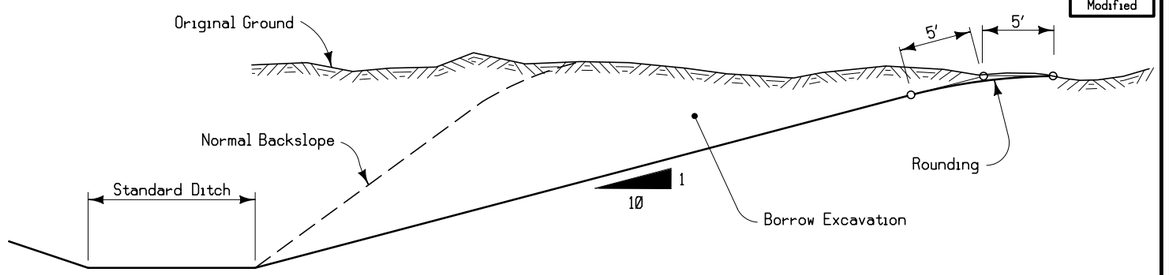
PAVED SHOULDER AT GUARDRAIL

2117
04-15-08



SIDE ROAD GRADING (BARNROOF)

4109
Modified



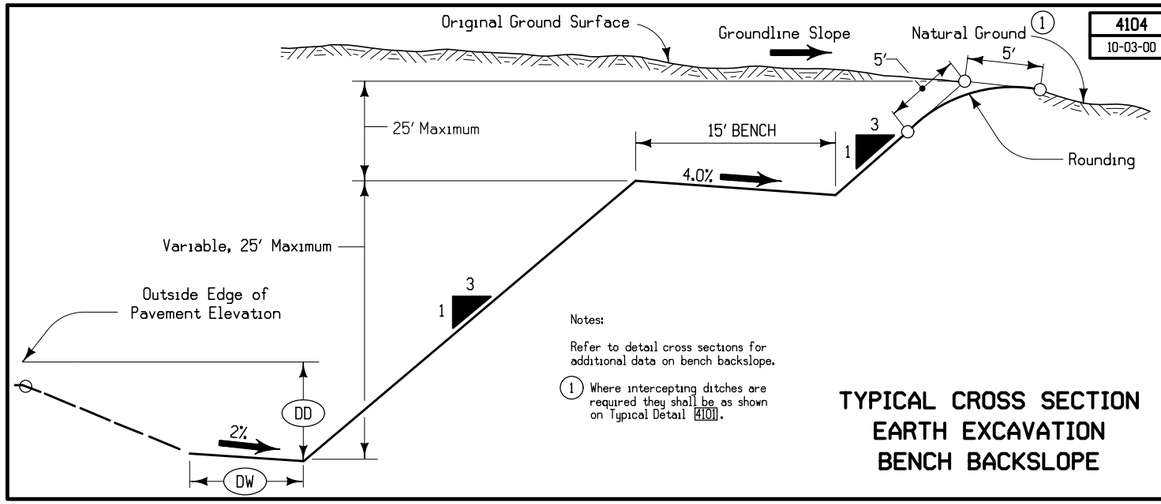
Notes:

Borrow backslope shall be used at those locations shown on plans or specifically required by the engineer.

Where intercepting ditches are required they shall be as shown on 4101.

TYPICAL CROSS SECTION SNOW BORROW

4104
10-03-00



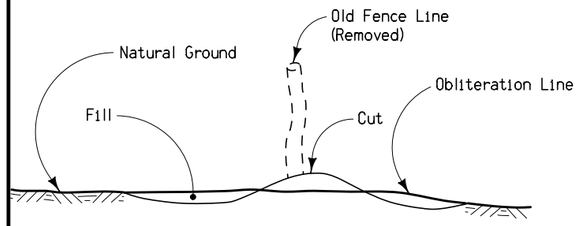
Notes:

Refer to detail cross sections for additional data on bench backslope.

(1) Where intercepting ditches are required they shall be as shown on Typical Detail 4101.

TYPICAL CROSS SECTION EARTH EXCAVATION BENCH BACKSLOPE

4301
08-20-96



TYPICAL DETAILS FOR OBLITERATION OF OLD FENCE RIDGE

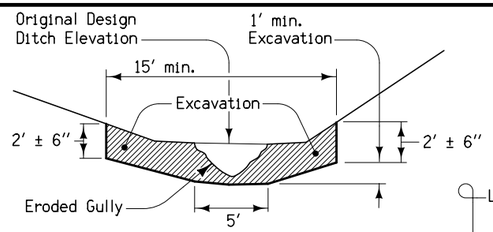
Notes:

The work of obliterating or reshaping old fence ridges shall be done at the direction of the Engineer.

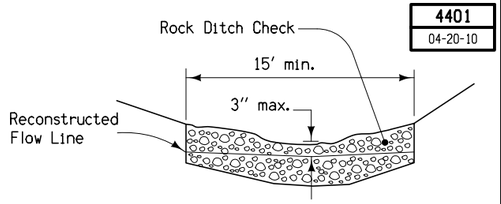
ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER B.5

3:11:32 PM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077B.sht

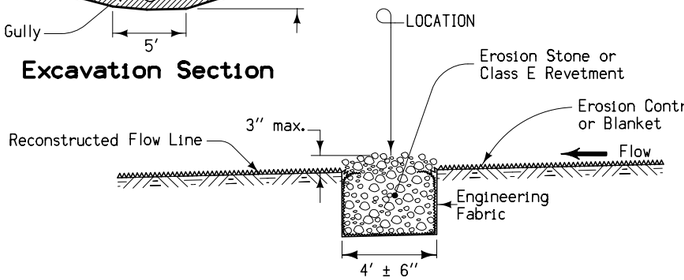
4401
04-20-10



Excavation Section



Ditch Check Section

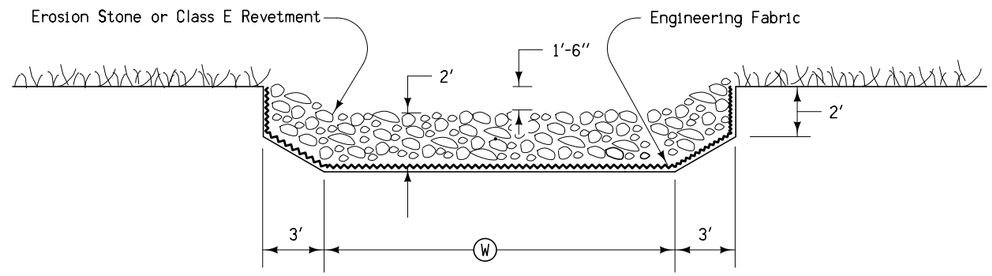


Longitudinal Section at Centerline of Ditch

Refer to Tabulation 100-23 for additional information.

ROCK DITCH CHECK

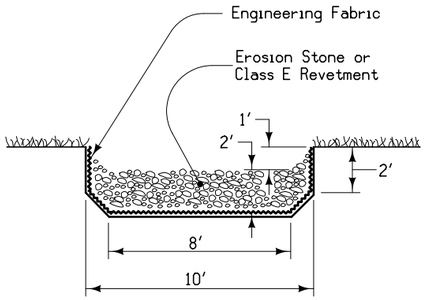
4402
04-20-10



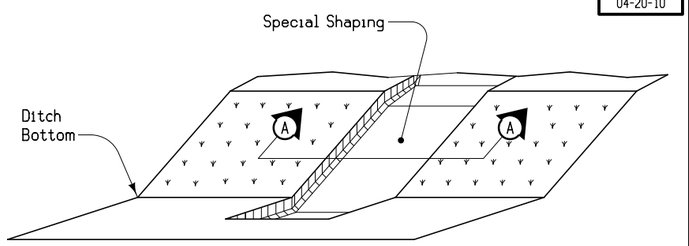
Refer to Tabulation 100-23 for additional information.

ROCK DITCH

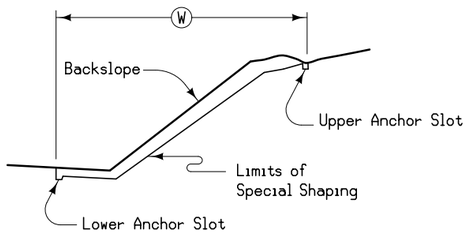
4403
04-20-10



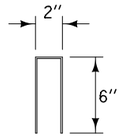
Section A-A



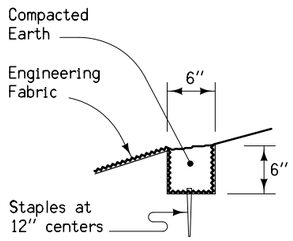
Isometric View



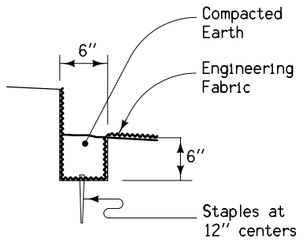
Typical Section



Staple
(No. 11 wire)



Upper Anchor Slot

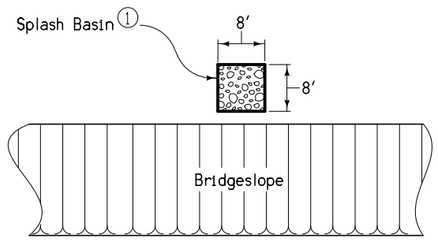


Lower Anchor Slot

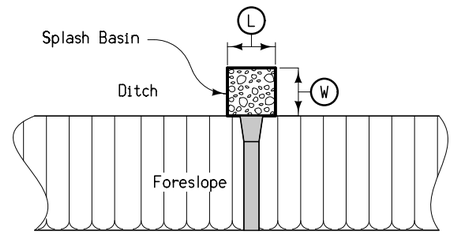
Refer to Tabulation 100-23 for additional information.

ROCK FLUME

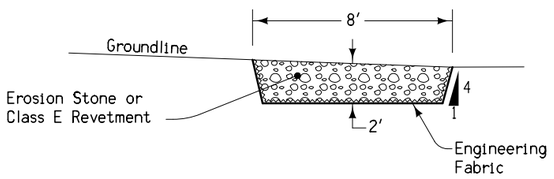
4404
04-20-10



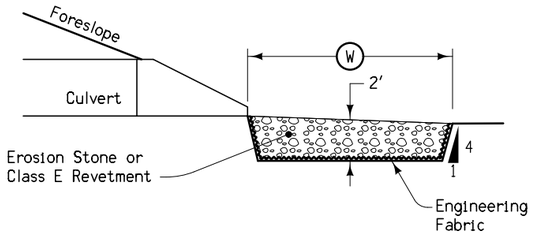
Splash Basin Under Bridge Drain
Plan View



Splash Basin at Culvert Outlet
Plan View



Splash Basin Under Bridge Drain
Typical Section



Splash Basin at Culvert Outlet
Typical Section

① Center splash basin directly under bridge drain.

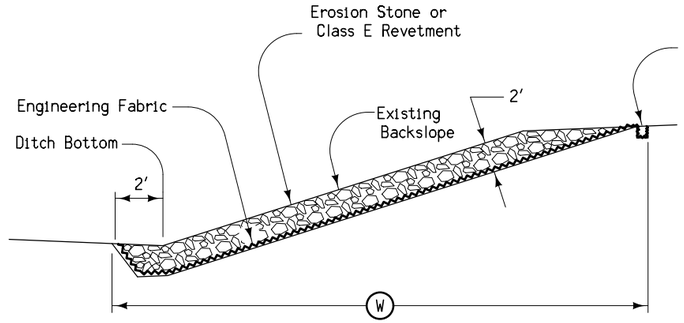
Refer to Tabulation 100-23 for additional information.

ROCK SPLASH BASIN

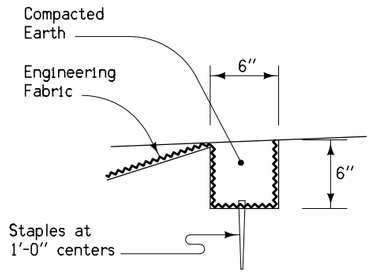
ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER B.6

3:11:32 PM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077B.sht

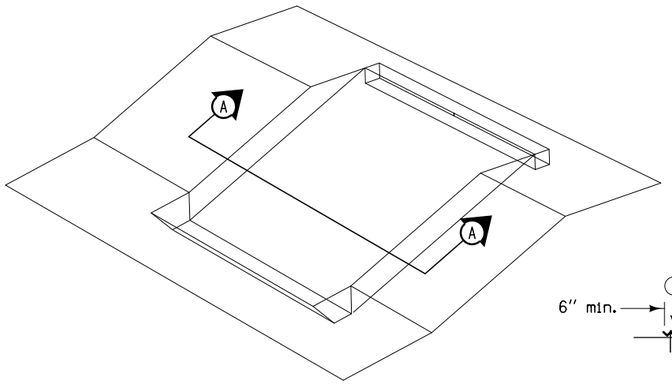
4405
04-20-10



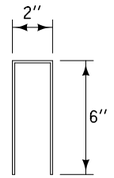
Typical Section



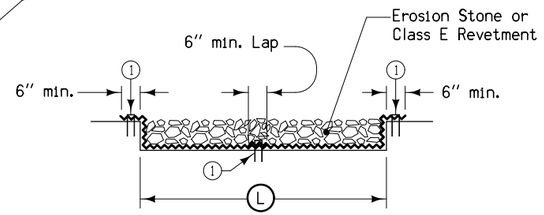
Anchor Slot



Isometric View



Staple
(No. 11 wire)



Section A-A

1 Staples at 12″ centers

Refer to Tabulation 100-23 for additional information.

ROCK SLOPE PROTECTION

SURVEY SYMBOLS

- FW Wire Fence
- TP TPD Telephone Pedestal
- UB UB Utility Box
- Tile TIL Tile Line
- OUT Tile Outlet
- B BIN Grain Bin
- PPA Power Pole Co. 1
- GDL Guard Rail (Rail and Cable)
- MM MM Mile Marker Post
- PR Electic Riser Pole
- FWD Wood Fence
- RET Retaining Walls
- MH Utility Access (Manhole)
- COR Round Bridge Pier Column
- COS Square Bridge Pier Column
- INB Storm Sewer Beehive Intake
- EB EB Electrical Box
- WEL Well
- PPB Power Pole Co. 2
- WH WHD Water Hydrant
- LP LP L.P. Tank
- ST SEP Septic Tank
- AST AST Above Ground Storage Tank
- SIGN SI Sign
- Flg FLG Flag Poles
- TV Satelite TV Dish
- C CIS Cistern
- UST UST Underground Tank
- GP GP Guard Post (Less Than 4 Posts)
- LUM Luminaire
- ENT Centerline BL of Entrance
- DU Centerline Draw or Stream (Up)
- D Centerline Draw or Stream (Down)
- EW Edge of Water
- BNK Stream Bank
- DIK Centerline of Dike or Dam
- IN Storm Sewer Intake
- RIP Rip-Rap
- T3 TLC Underground Telephone Line Co. 3
- F0 FOA Underground Fiber Optic Co. 1
- F05 FOE Underground Fiber Optic Co. 5
- F02 FOB Underground Fiber Optic Co. 2
- T2 TLB Underground Telephone Line Co. 2
- T1 TLA Underground Telephone Line Co. 1
- E1 ELA Underground Electric Line Co. 1
- ROW Right of Way Rail
- BB BB Billboard
- TDC Tree Deciduous
- SIGN SL Speed Limit Sign
- FCL Chain Link and Security Fence
- San. SAA Sanitary Sewer Line Co. 1
- TEV Evergeen Tree
- FHD Fire Hydrants
- T4 TLD Underground Telephone Line Co. 4
- F04 FOD Underground Fiber Optic Co. 4
- F03 FOC Underground Fiber Optic Co. 3
- E2 ELB Underground Electric Line Co. 2
- SHR Shrub
- TFR Tree Fruit
- WV WV Water Valve
- W WLA Underground Water Line Co. 1
- San.2 SAB Sanitary Sewer Line Co. 2
- HDG Hedge Row
- WM Wind Mill
- TLN Treeline

UTILITY LEGEND

- PPA MidAmerican
- PPB Private
- T1 — TLA Qwest Local Network (B)
- T2 — TLB Frontier Communications (B)
- T3 — TLC Western Iowa Telephone (B)
- T4 — TLD Schaller Telephone Company
- F0 — FOA INS (B)
- F02 — FOB Qwest Communications (B)
- F03 — FOC Comserve (B)
- F04 — FOD McLeod (B)
- F05 — FOE Knology (B)
- E1 — ELA Woodbury Rural Electric (B)
- W — WLA Iowa DOT
- San. — SAA Iowa DOT
- San.2 — SAB City of Correctionville

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Purple	(5)	Existing Utilities
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Pavement Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading
Brown, Light	(237)	Grading Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

Green	(2)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Purple	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

CONVENTIONAL SIGNS

- Reference Point
- Survey Line
- Station
- Section Corner
- Clearing & Grubbing Area
- Pavement Removal

RIGHT-OF-WAY LEGEND

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

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.1

11:00:47 AM 6/1/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077_lgd.sht

Curve Data
Δ = 0° 16′ 21.82″ (LT)
T = 300.00
L = 600.00
R = 126,050.48
E = 0.36

Arlington TWP.
T-89N R-44
SEC. 35

20215
20220
20225
20230
20235

Sta. 221+97.88, 42.68 Rt.
18″ X 10.7 Conc Pipe
D.A. = 2 Ac - R

POT Sta 20210+57.92
POT Sta 210+57.92

STA. 20219+00.00 (WB)
BEGIN PROJECT

PC Sta 20220+00.00
PC Sta 223+64.50
PT Sta 229+64.50
PRC Sta 20236+26.27

Curve Data WB
Δ = 5° 49′ 25.13″ (LT)
T = 813.84
L = 1,626.27
R = 16,000.00
E = 20.68

215
220
225
230
235

IDA AVE

FO

Sta. 221+60.58
20″ X 205.2 Conc Pipe
D.A. = 3 Ac - H

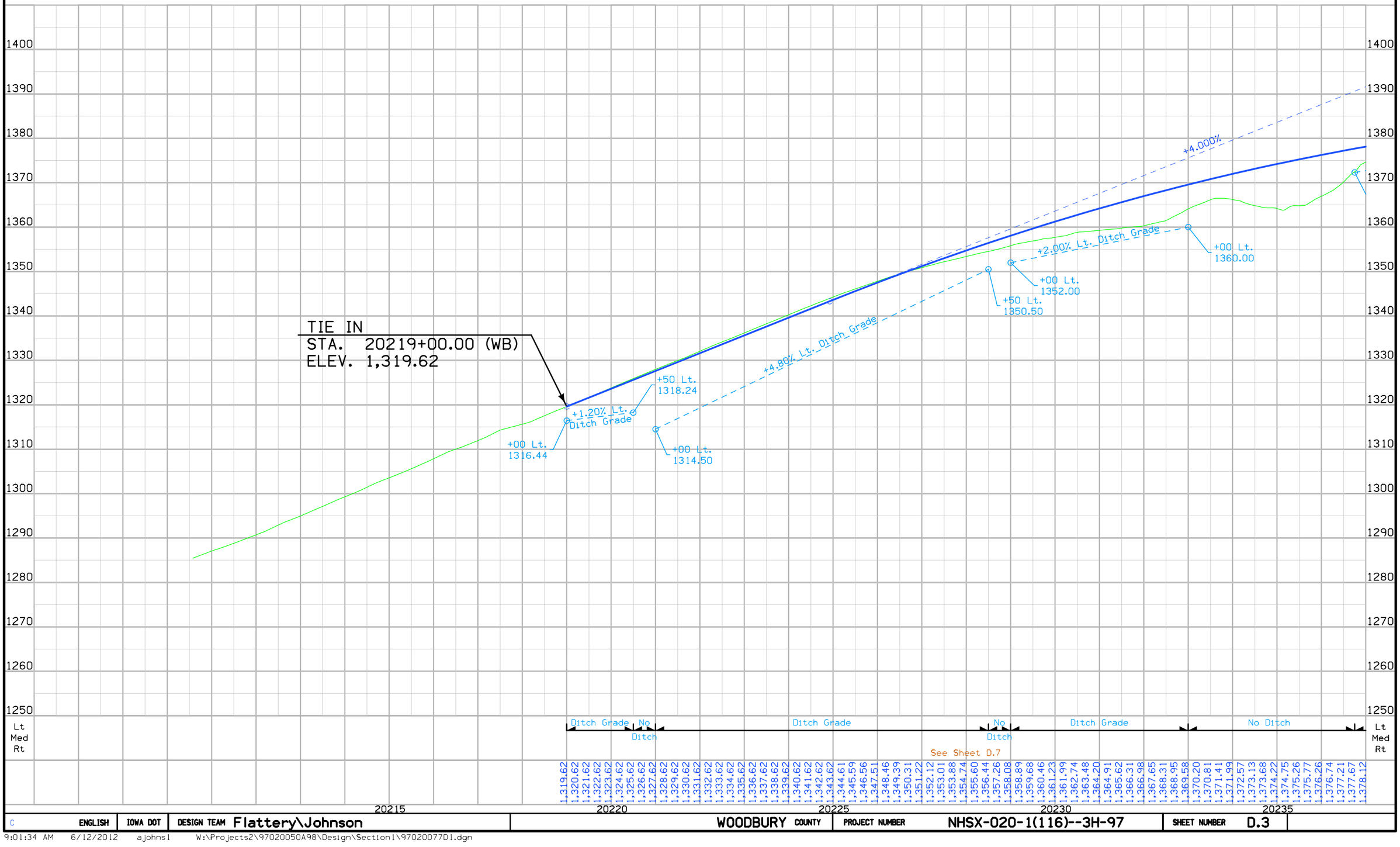
226+61.50
PT Sta 20228+13.84

0 FEET 100

WESTBOUND

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.2

9:01:33 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn



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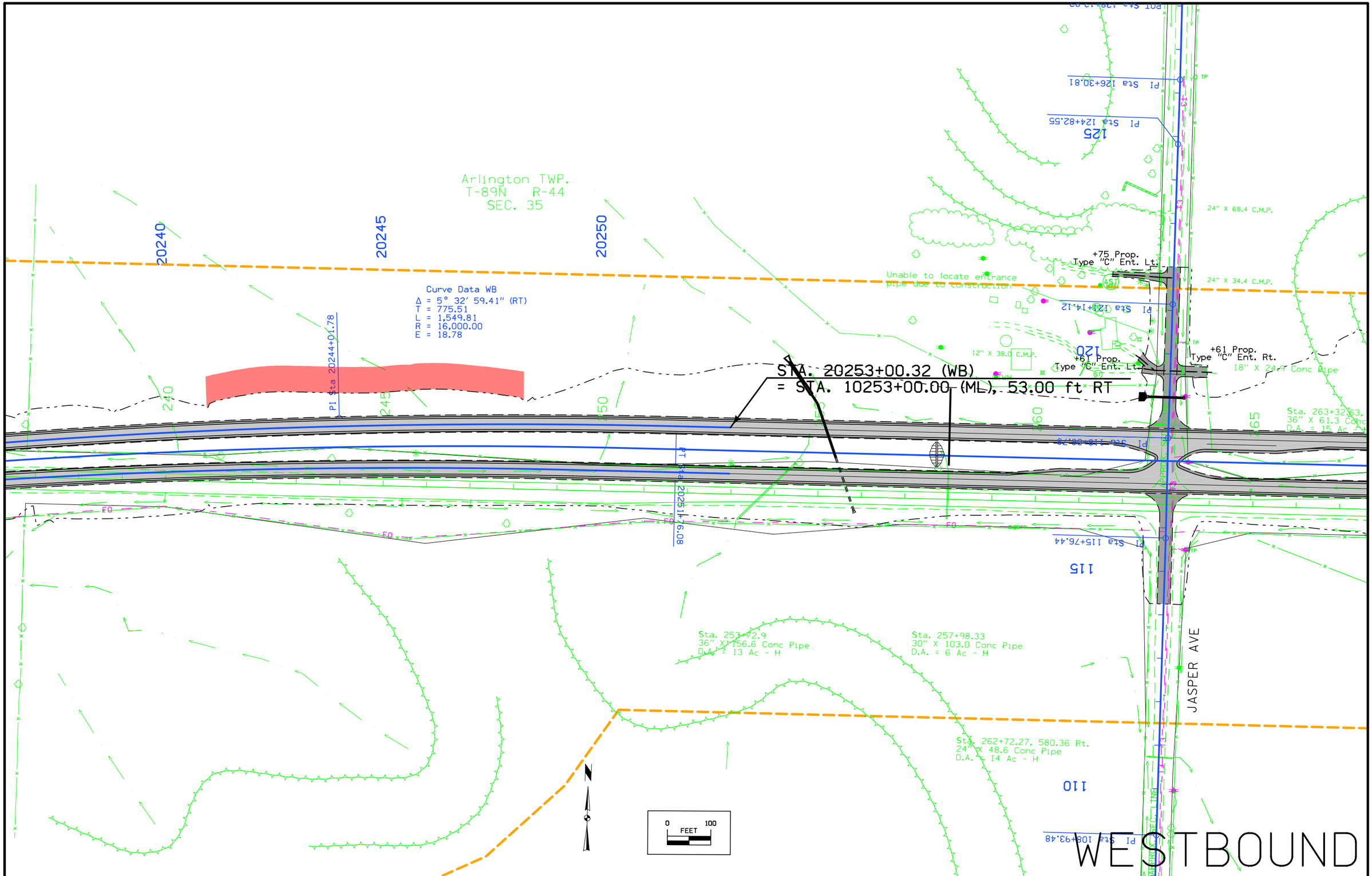
9:01:34 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn



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9:01:35 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

VPI +42.430
Elv 1,397.32
Len 2,700.00 ft
K = 540

+4.000%

-1.000%

+1.60% Lt.
Ditch Grade

+75 Lt.
1375.52

+75 Lt.
1372.32

TIE IN
STA. 20253+00.32 (WB)
= STA. 10253+00.00 (ML)
ELEV. 1,382.74

1450 1440 1430 1420 1410 1400 1390 1380 1370 1360 1350 1340 1330 1320 1310 1300

Lt	Ditch Grade	No Ditch	5' Ditch	No Ditch
Rt			See Sheet D.9	

| | | | |

Curve Data
Δ = 0° 16′ 21.82″ (LT)
T = 300.00
L = 600.00
R = 126,050.48
E = 0.36

Arlington TWP.
T-89N R-44
SEC. 35

Sta. 221+97.68, 42.68 Rt.
18" X 10.7 Conc Pipe
D.A. = 2 Ac - H

STA. 30219+00.00 (EB)
BEGIN PROJECT

POT Sta 30210+57.92

IDA AVE

PC Sta 30220+00.00

Sta. 221+60.58
24" X 205.2 Conc Pipe
D.A. = 3 Ac - H

PC Sta 223+64.50

PT Sta 229+64.50

PI Sta 30227+54.57

PRC Sta 30235+08.03

Curve Data EB
Δ = 5° 24′ 00.79″ (LT)
T = 754.57
L = 1,508.03
R = 16,000.00
E = 17.78

215 220 225 230 235

30215 30220 30225 30230 30235

0 100
FEET

EASTBOUND

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.6

9:01:38 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

TIE IN
STA. 30219+00.00 (EB)
ELEV. 1,319.53

+4.000%

+3.20% Rt. Ditch Grade

+00 Rt.
1315.51

+00 Rt.
1350.71

+50 Rt.
1354.00

+2.00% Rt.
Ditch Grade

+00 Rt.
1359.00

+00 Rt.
1362.65

See Sheet D.3

Lt	Ditch Grade	No Ditch	Ditch Grade	No Ditch	Lt
Rt					Rt

1,319.53 1,320.53 1,321.53 1,322.53 1,323.53 1,324.53 1,325.53 1,326.53 1,327.53 1,328.53 1,329.53 1,330.53 1,331.53 1,332.53 1,333.53 1,334.53 1,335.53 1,336.53 1,337.53 1,338.53 1,339.53 1,340.53 1,341.53 1,342.53 1,343.53 1,344.52 1,345.50 1,346.47 1,347.43 1,348.38 1,349.31 1,350.23 1,351.14 1,352.04 1,352.93 1,353.80 1,354.67 1,355.52 1,356.36 1,357.19 1,358.01 1,358.81 1,359.61 1,360.39 1,361.16 1,361.92 1,362.67 1,363.41 1,364.13 1,364.85 1,365.55 1,366.24 1,366.92 1,367.59 1,368.24 1,368.89 1,369.52 1,370.14 1,370.75 1,371.35 1,371.93 1,372.51 1,373.07 1,373.62 1,374.16 1,374.69 1,375.21 1,375.71 1,376.21 1,376.69 1,377.16 1,377.62 1,378.07

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.7

9:01:38 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

Arlington TWP.
T-89N R-44
SEC. 35

STA. 30252+99.70 (EB)
STA. 10253+00.00 (ML), 53.00 ft LT

Curve Data EB
Δ = 5° 07' 35.08" (RT)
T = 716.26
L = 1,431.56
R = 16,000.00
E = 16.02

PI Sta 30242+24.29
PT Sta 30249+39.59

Unable to locate entrance pipe due to construction

+75 Prop. Type "C" Ent. Lt.
+61 Prop. Type "C" Ent. Lt.
+61 Prop. Type "C" Ent. Rt.

24" X 68.4 C.M.P.
24" X 34.4 C.M.P.
12" X 38.0 C.M.P.
18" X 24.0 Conc Pipe

Sta. 253+72.9
36" X 156.6 Conc Pipe
D.A. = 13 Ac - H

Sta. 257+98.33
30" X 103.0 Conc Pipe
D.A. = 6 Ac - H

Sta. 262+72.27, 580.36 Rt.
24" X 48.6 Conc Pipe
D.A. = 14 Ac - H

Sta. 263+32.63,
36" X 61.3 Conc
D.A. = 15 Ac

PI Sta 126+30.81
PI Sta 124+82.55
PI Sta 124+14.12
PI Sta 118+88.78
PI Sta 115+76.44
PI Sta 108+93.48

125
120
115
110

JASPER AVE

APPROX. SECTION LINE

0 100 FEET

EASTBOUND

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.8

9:01:40 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

VPI +44.030
Elv 1,397.29
Len 2,700.00 ft
K = 540

+4.000%

-1.000%

TIE IN
STA. 30252+99.70 (EB)
= STA. 10253+00.00 (ML)
ELEV. 1,382.74

+00 Rt.
1378.65

+4.00% Rt. Ditch Grade

+00 Rt.
1380.39

-4.00% Rt. Ditch Grade

+00 Rt.
1368.40

See Sheet D.5

	Ditch	Grade			5' Ditch				Ditch	Grade
Lt	1,378.50	1,380.13	1,381.57	1,382.83	1,383.90	1,384.79	1,385.49	1,386.01	1,386.49	1,385.82
Rt	1,378.93	1,380.51	1,381.91	1,383.12	1,384.14	1,384.98	1,385.64	1,386.11	1,386.49	1,385.68
	1,379.34	1,380.88	1,382.23	1,383.39	1,384.37	1,385.16	1,385.77	1,386.20	1,386.49	1,385.54
	1,379.74	1,381.23	1,382.53	1,383.65	1,384.59	1,385.33	1,385.90	1,386.28	1,386.48	1,385.39
								1,386.34	1,386.45	1,385.22
								1,386.39	1,386.41	1,385.04
								1,386.44	1,386.36	1,384.85
								1,386.47	1,386.30	1,384.65
									1,386.22	1,384.44
									1,386.14	1,384.22
									1,386.04	1,383.98
									1,385.93	1,383.74
										1,383.49
										1,383.24
										1,382.99

30240 30245 30250 30255 30260 30265

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.9	

9:01:41 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

Arlington TWP.
T-89N R-44
SEC. 35

STA. 10253+00.00 (ML)
= STA. 20253+00.32 (WB), 53.00 ft LT
= STA. 30252+99.70 (EB), 53.00 ft RT

Curve Data
Δ = 5° 20' 32.31" (RT)
T = 746.47
L = 1,491.85
R = 16,000.00
E = 17.40

Unable to locate entrance pipe due to construction

+75 Prop. Type "C" Ent. Lt.

+61 Prop. Type "C" Ent. Lt.

+61 Prop. Type "C" Ent. Rt.

24" X 68.4 C.M.P.

24" X 34.4 C.M.P.

12" X 38.0 C.M.P.

18" X 24.0 Conc Pipe

Sta. 263+32.63,
36" X 61.3 Conc
D.A. = 15 Ac - H

Sta. 253+72.9
36" X 156.6 Conc Pipe
D.A. = 13 Ac - H

Sta. 257+98.33
30" X 103.0 Conc Pipe
D.A. = 6 Ac - H

Sta. 262+72.27, 580.36 Rt.
24" X 48.6 Conc Pipe
D.A. = 14 Ac - H

Pl Sta 126+30.81

Pl Sta 124+82.55

Pl Sta 120+14.12

Pl Sta 118+88.78

Pl Sta 115+76.44

Pl Sta 108+93.48

Sta 10243+14.78

Sta 10250+60.17

JASPER AVE

APPROX. SECT. LINE

0 FEET 100

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.10

9:01:43 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

TIE IN
STA. 10253+00.00 (ML)
= STA. 20253+00.32 (WB)
= STA. 30252+99.70 (EB)
ELEV. 1,381.92

VPI +25.000
Elv 1,378.25
Len 650.00 ft
K = 217

-1.000%
+2.000%
+0.80% Rt
+2.80% Rt. Ditch Grade
-1.00% Rt. Ditch Grade

+00 Rt.
1368.00
+00 Rt.
1365.00
+50 Rt.
1383.20
+50 Rt.
1384.00
+50 Lt.
1381.00

No Ditch
Side Road
Ditch Grade
Ditch Grade
Ditch Grade
Ditch Grade

Lt
Rt

1,378.06 1,378.49 1,378.91 1,379.31 1,379.70 1,380.09 1,380.46 1,380.81 1,381.16 1,381.50 1,381.82 1,382.13 1,382.43 1,382.72 1,383.00 1,383.26 1,383.52 1,383.76 1,383.99 1,384.21 1,384.42 1,384.62 1,384.80 1,384.97 1,385.13 1,385.28 1,385.42 1,385.55 1,385.67 1,385.77 1,385.86 1,385.94 1,386.01 1,386.07 1,386.11 1,386.15 1,386.17 1,386.18 1,386.18 1,386.17 1,386.15 1,386.11 1,386.06 1,386.01 1,385.94 1,385.85 1,385.76 1,385.66 1,385.54 1,385.41 1,385.27 1,385.12 1,384.96 1,384.79 1,384.60 1,384.40 1,384.19 1,383.97 1,383.74 1,383.50 1,383.25 1,383.00 1,382.75 1,382.50 1,382.25 1,382.00 1,381.75 1,381.50 1,381.26 1,381.06 1,380.88 1,380.73 1,380.61 1,380.52 1,380.45 1,380.42 1,380.42 1,380.44 1,380.49 1,380.58 1,380.69 1,380.83 1,380.99 1,381.19 1,381.42 1,381.67 1,381.95 1,382.27 1,382.61 1,382.98 1,383.38 1,383.81 1,384.26 1,384.75 1,385.24 1,385.72 1,386.19 1,386.65 1,387.10 1,387.53 1,387.96 1,388.37 1,388.77 1,389.16 1,389.53 1,389.89 1,390.25 1,390.59 1,390.91 1,391.23 1,391.54 1,391.83 1,392.11 1,392.38 1,392.63 1,392.88 1,393.11 1,393.33 1,393.54 1,393.74

10240 10245 10250 10255 10260 10265

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.11

9:01:44 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

Curve Data
Δ = 0° 08′ 45.44″ (RT)
T = 550.11
L = 1,100.23
R = 431,900.00
E = 0.35

Curve Data
Δ = 0° 08′ 45.22″ (RT)
T = 300.00
L = 600.00
R = 235,632.77
E = 0.19

Arlington TWP.
T-89N R-44
SEC. 36

10270 10275 10280 10285 10290 10295

Pipe
263+32.63, 182.67 Lt
X 61.3 Conc Pipe
= 15 Ac - H

PC Sta 10274+58.69

PC Sta 10269+08.58

PC Sta 271+54.22

PT Sta 10280+08.81

PT Sta 271+54.22

Sta. 270+28.27
24" X 107.4 Conc Pipe
D.A. = 2 Ac - H

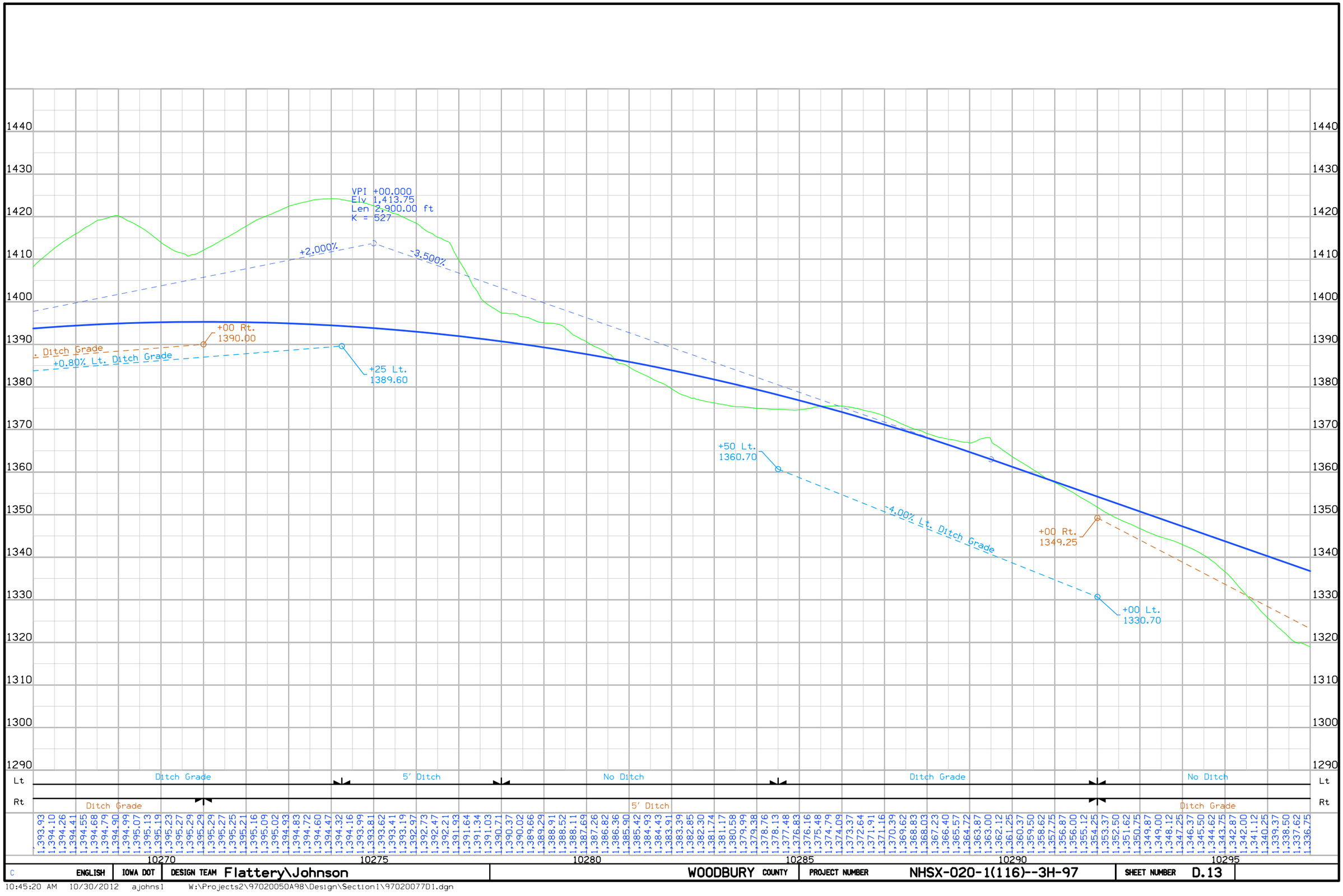
Sta. 279+10.99
24" X 77.8 Conc Pipe
D.A. = 1 Ac - H

Sta. 295+99.75
24" X 95.5 Conc Pipe
D.A. = 2 Ac - H

0 100
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER D.12

10:45:19 AM 10/30/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn



C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.13

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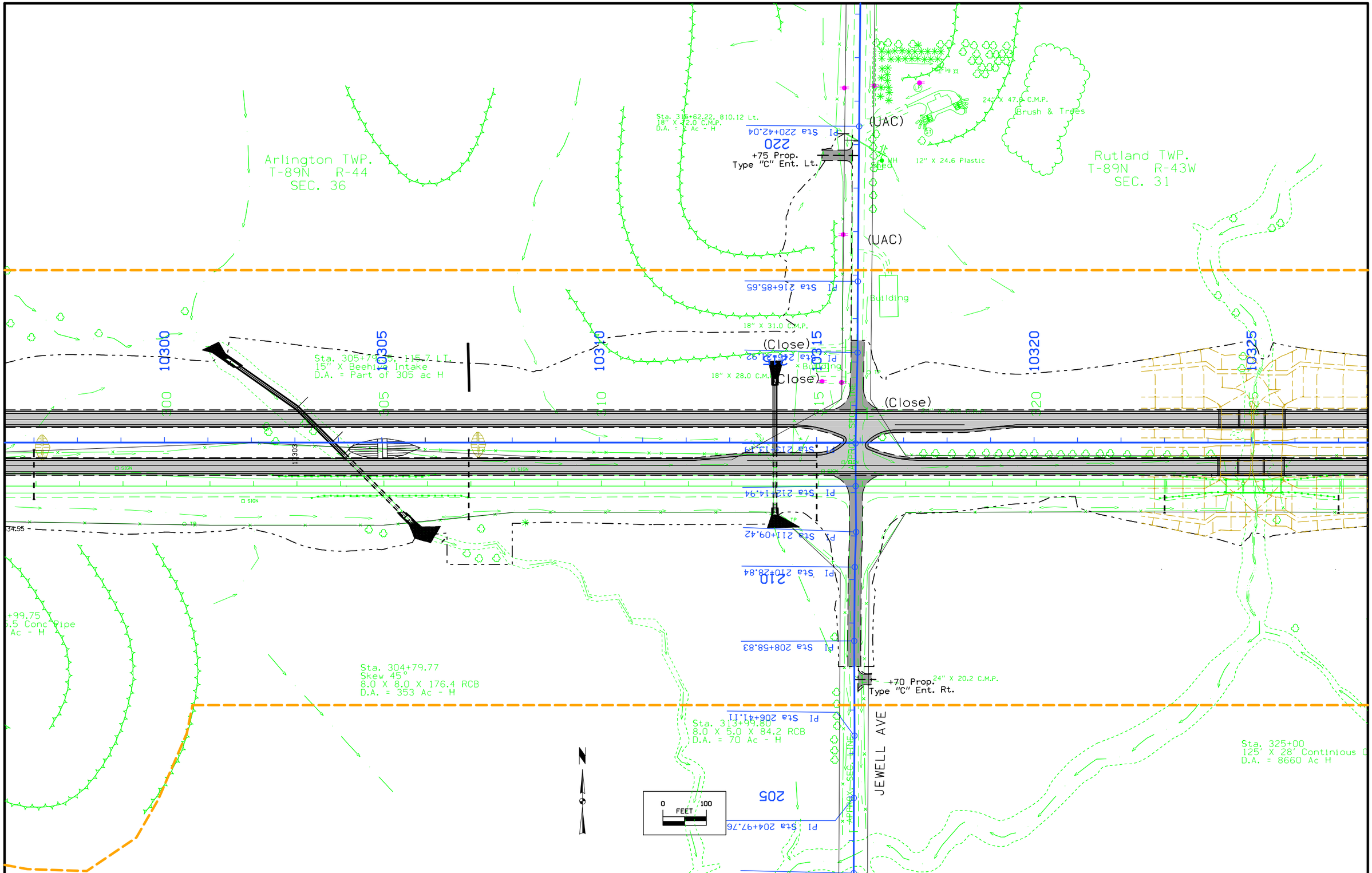


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.14

11:31:21 AM ajohns1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702001098\Design\Section1\97020077D1.dgn



C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.15

10:45:24 AM 10/30/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

Rutland TWP.
T-89N R-43W
SEC. 31

10330 10335 10340 10345 10350 10355

+13 Prop. Jt. Type "C" Ent. Lt.

24" X 48.4 C.M.P. W/ Flume

(Close)

(Close)

(Close)

+13 Prop. Jt. Type "C" Ent. Rt.

24" X 58.2 C.M.P. W/ Flume

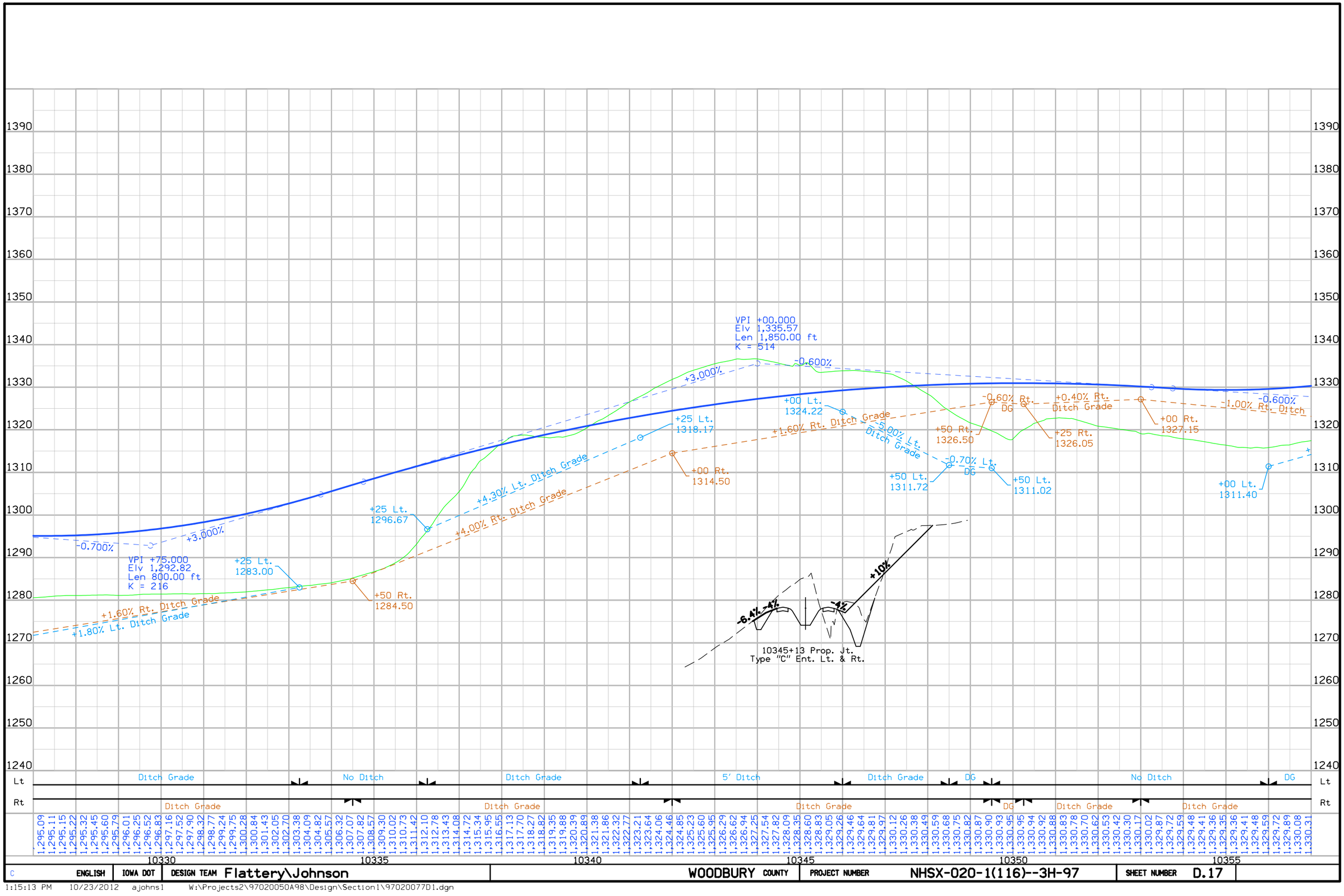
Sta. 350+20.18
30" X 108.0 Conc Pipe
D.A. = 9 Ac. +H

ontinious Concrete Slab Bridge
Ac H

0 100 FEET

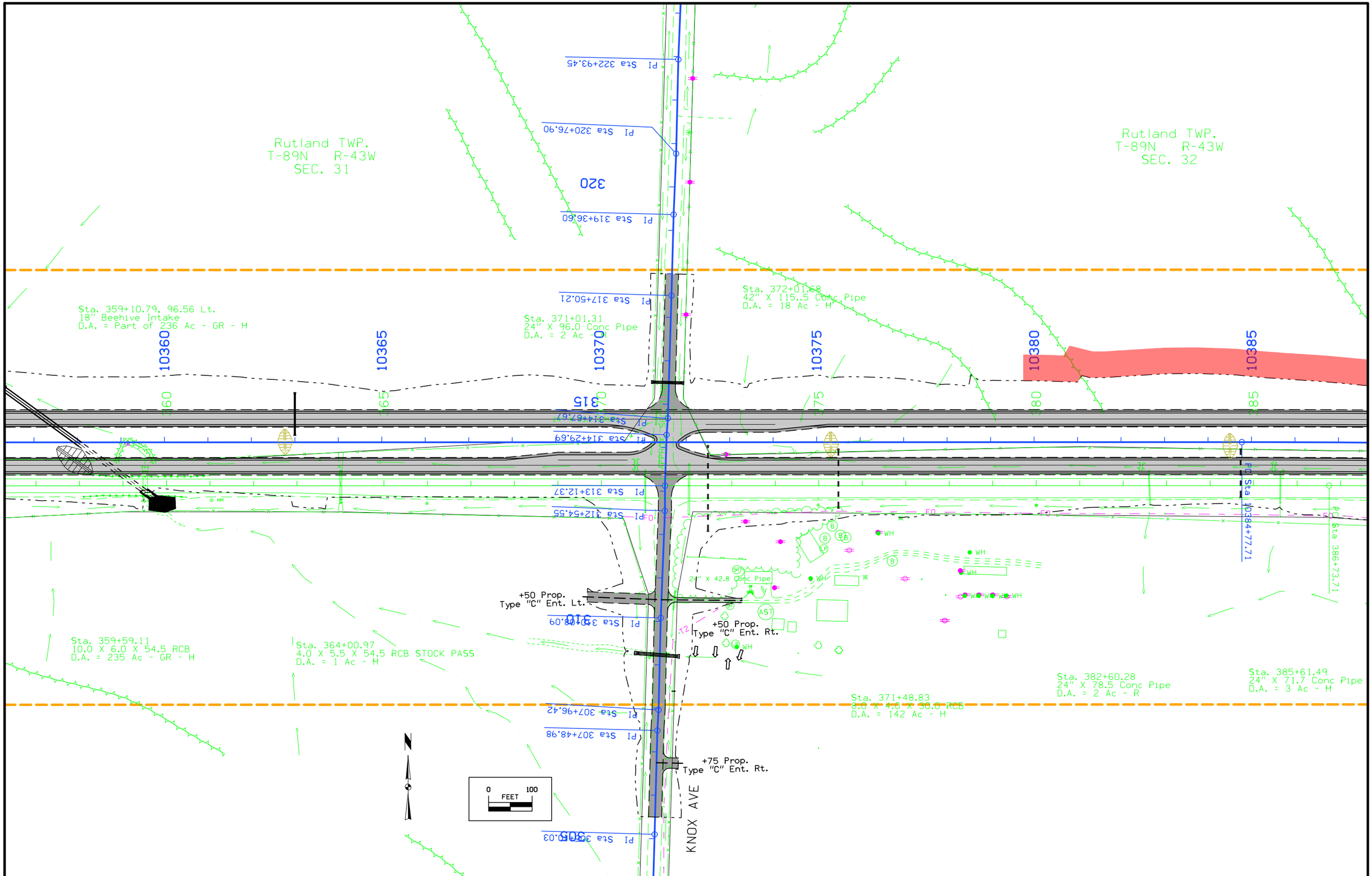
C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.16

1:15:12 PM 10/23/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn



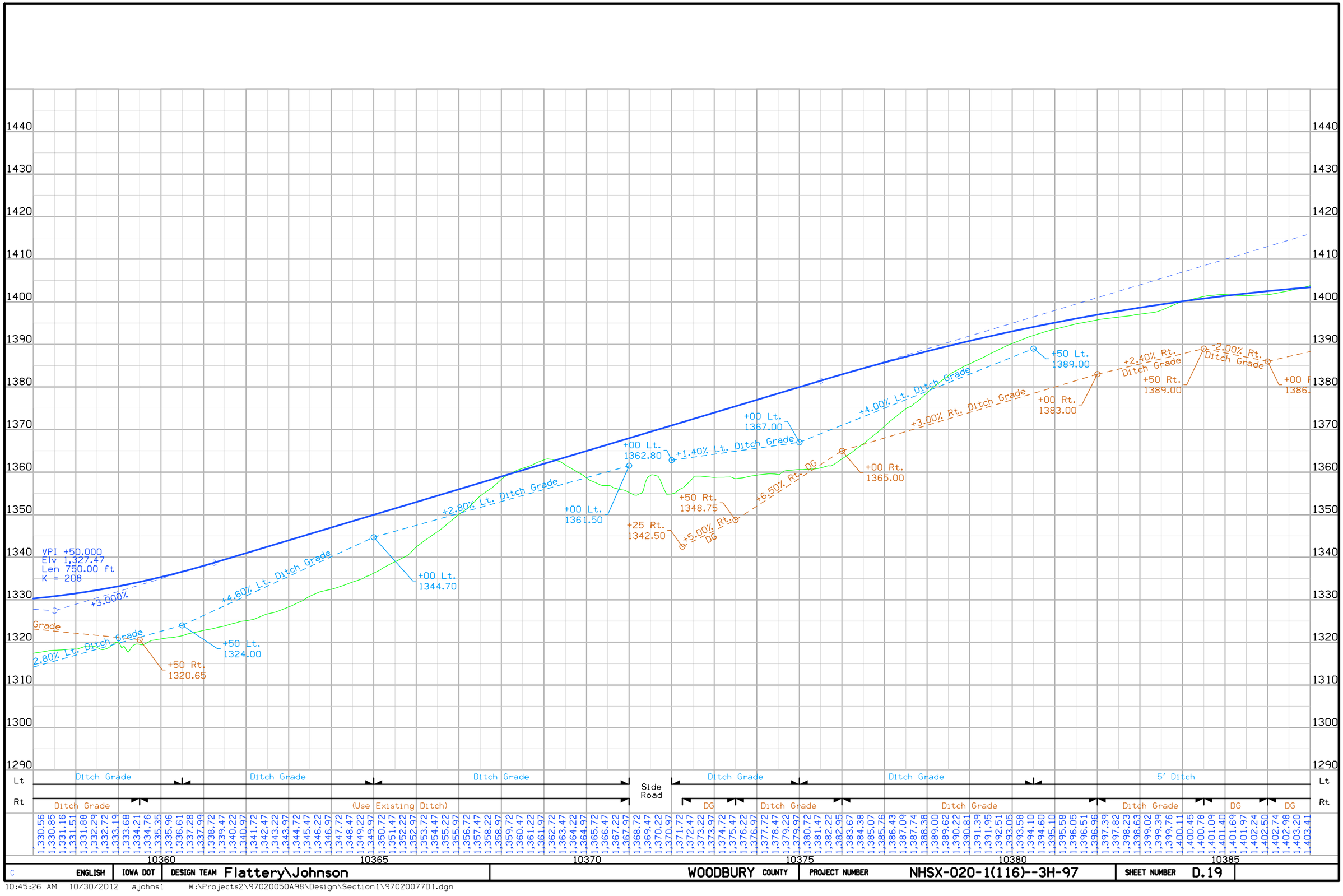
C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER D.17

1:15:13 PM 10/23/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn



C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.18

10:45:25 AM 10/30/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.19

10:45:26 AM 10/30/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

Curve Data
Δ = 1° 44' 12.55" (RT)
T = 550.23
L = 1,100.37
R = 36,300.00
E = 4.17

Curve Data
Δ = 1° 44' 11.32" (RT)
T = 348.00
L = 695.95
R = 22,963.06
E = 2.64

Rutland TWP.
T-89N R-43W
SEC. 32

10390
10395
10400
10405
10410
10415

PC Sta 386+73.71

PT Sta 393+69.66

PT Sta 10395+78.08

PC Sta 10416+93.12

Sta. 396+15.17
24" X 114.0 Conc Pipe
D.A. = 5 Ac - R

Sta. 402+39.67
24" X 66.4 Conc Pipe
D.A. = 6 Ac - R

Sta. 414+01.71
8.0 X 8.0 X 98.6 RCB W/FLUME
D.A. = 236 Ac - R-H

1.49
Conc Pipe
c - H

0 100
FEET

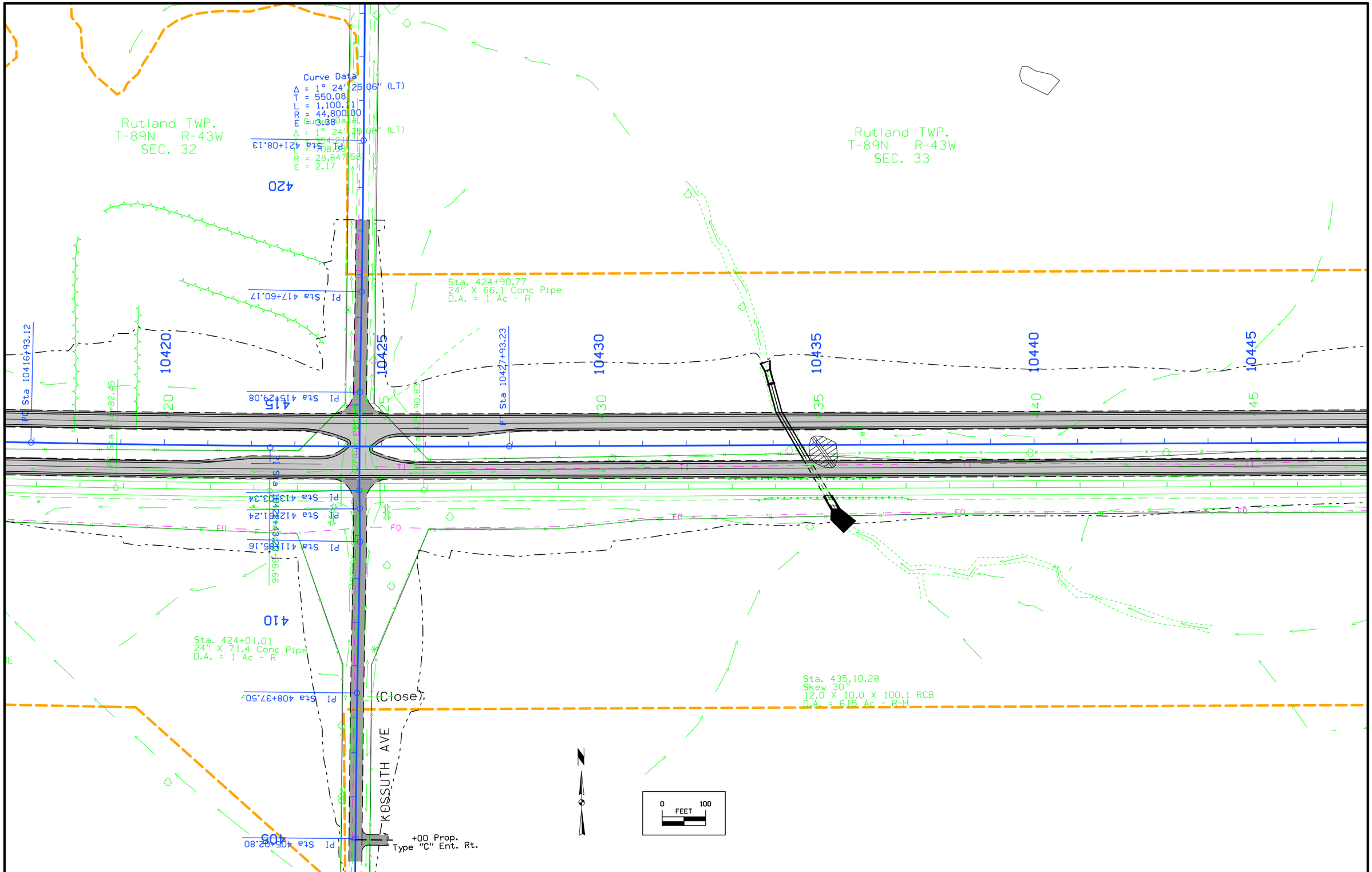
ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.20

4:01:10 PM ajohns1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702001098\Design\Section1\97020077D1.dgn



C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.21

9:01:57 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.22

10:45:28 AM 10/30/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn



C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.23

10:45:28 AM 10/30/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

Rutland TWP.
T-89N R-43W
SEC. 33

Sta. 450+01.7
24" X 90.2 Conc Pipe
D.A. = 11 Ac - R

Sta. 450+56.52, 87.4 Rt.
20" Beehive Intake
D.A. = Part of 168 Ac -H

Sta. 455+14.28
Skew 45°
Twin 6.0 X 4.0 X 126.8 RCB
D.A. = 153 Ac - H

Sta. 468+61.44
24" X 89.9 Conc Pipe
D.A. = 1 Ac - R

Sta. 472+82.44
30" X 157.5 Conc Pipe
D.A. = 10 Ac - R

18" X 20.6 C.M.P.

100' Prop. Type "C" Ent. Lt.

(Close)

(Close)

UAC

10450 10455 10460 10465 10470 10475

450 455 460 465 470 475

520 Pl Sta 519+64.33

515 Pl Sta 514+72.32

510 Pl Sta 509+51.77

505 Pl Sta 503+19.19

Pl Sta 517+37.93

Pl Sta 511+97.99

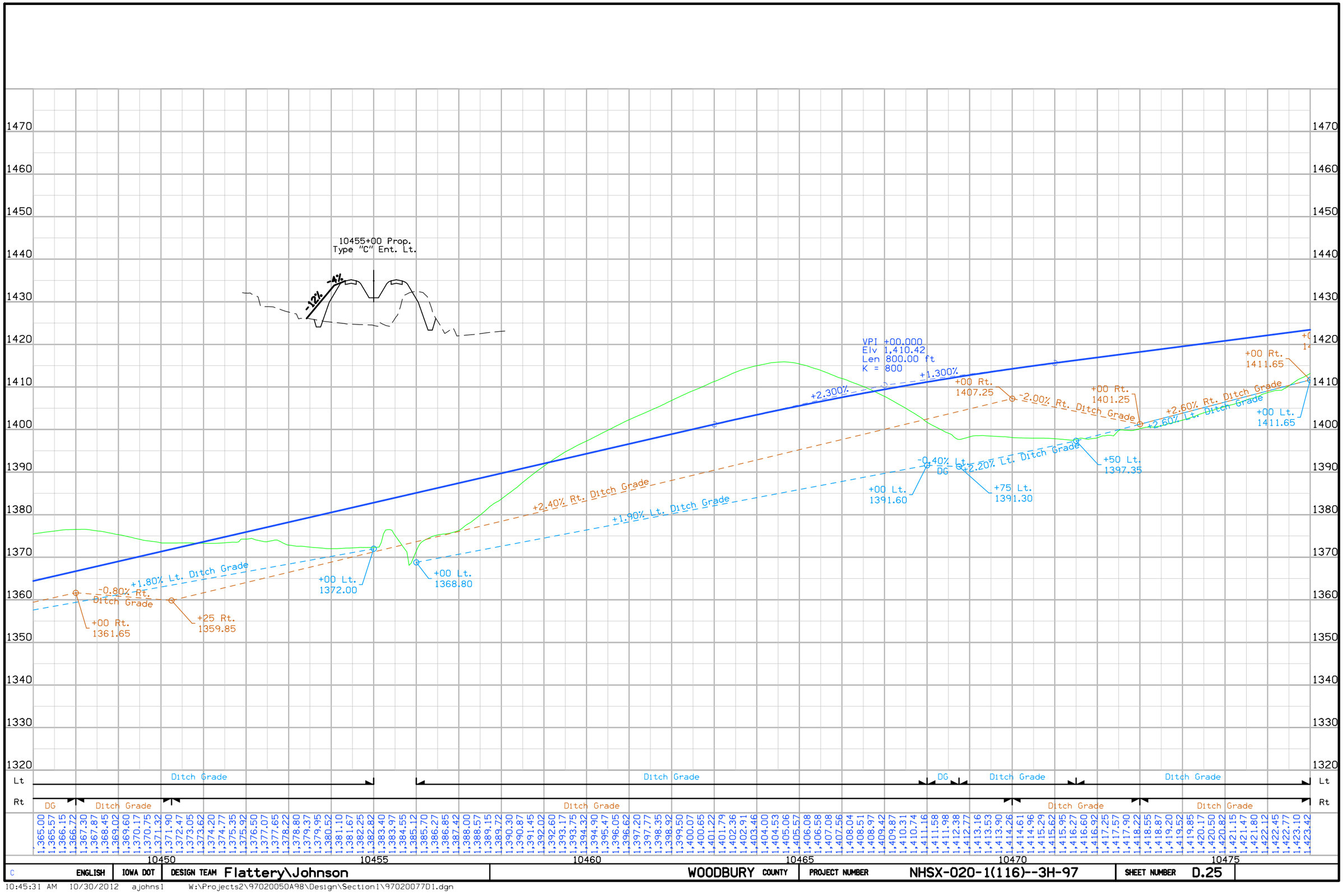
Pl Sta 511+37.24

N

0 100 FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.24

10:45:30 AM 10/30/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn



C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.25

10:45:31 AM 10/30/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

Curve Data
Δ = 0° 42′ 28.90″ (LT)
T = 550.53
L = 1,101.05
R = 89,100.00
E = 1.70

Curve Data
Δ = 0° 42′ 28.90″ (LT)
T = 300.00
L = 599.99
R = 48,553.16
E = 0.93

Rutland TWP.
T-89N R-43W
SEC. 34

Sta. 477+75.45, 434.71 Lt.
30″ X 55.7 Conc Pipe
D.A. = 17 Ac - R

Sta. 477+75.13, 140.93 Lt.
42″ X 66.8 Conc Pipe
D.A. = 24 Ac - R

10480 10485 10490 10495 10500 10505

PC Sta 10486+42.38

PT Sta 10491+88.23

PC Sta 10493+92.91

PT Sta 10497+43.43

18″ X 32.7 Conc Pipe

(Close)

Sta. 477+82.61,
30″ X 96.8 Conc Pipe
D.A. = 2 Ac - R

Sta. 482+02.21,
Skew 45°
36″ X 109.2 Conc Pipe
D.A. = 12 Ac - R

Sta. 495+41.59
Skew 30°
24″ X 102.4 Conc Pipe
D.A. = 4 Ac - H

LEE AVE

+80 Prop.
Type "C" Ent. Rt.

N

0 100
FEET

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.26

10:45:32 AM 10/30/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

VPI +00.000
Elv 1,449.42
Len 2,500.00 ft
K = 510

+1.300%

-3.600%

00 Rt.
1419.50

+1.20% Rt. Ditch Grade

+3.00% Lt.
Ditch Grade

+00 Lt.
1416.00

+00 Lt.
1422.00

+00 Rt.
1424.30

+00 Rt.
1432.06

-1.00% Rt. Ditch Grade

+00 Rt.
1428.06

+1.00% Rt.
DG

+00 Rt.
1429.06

+00 Rt.
1422.90

+00 Lt.
1426.40

-4.00% Lt. Ditch Grade

4.60% Rt. Ditch Grade

+00 Lt.
1406.40

-4.50% Lt. Ditch Grade

+75 Lt.
1394.02

Lt	Side Road	Ditch Grade		5' Ditch		Ditch Grade		Ditch Grade	Ditch Grade	DG	Lt
Rt			Ditch Grade		5' Ditch		Ditch Grade				Rt

1,423.75 1,424.07 1,424.40 1,424.72 1,425.05 1,425.37 1,425.70 1,426.02 1,426.35 1,426.67 1,427.00 1,427.32 1,427.65 1,427.97 1,428.30 1,428.62 1,428.95 1,429.27 1,429.60 1,429.92 1,430.25 1,430.57 1,430.90 1,431.22 1,431.55 1,431.87 1,432.20 1,432.52 1,432.85 1,433.17 1,433.49 1,433.80 1,434.09 1,434.38 1,434.65 1,434.90 1,435.15 1,435.38 1,435.60 1,435.81 1,436.01 1,436.19 1,436.36 1,436.52 1,436.67 1,436.81 1,436.93 1,437.04 1,437.14 1,437.22 1,437.30 1,437.36 1,437.41 1,437.45 1,437.47 1,437.48 1,437.48 1,437.47 1,437.45 1,437.41 1,437.36 1,437.30 1,437.23 1,437.14 1,437.05 1,436.94 1,436.81 1,436.68 1,436.53 1,436.37 1,436.20 1,436.02 1,435.82 1,435.62 1,435.40 1,435.16 1,434.92 1,434.66 1,434.39 1,434.11 1,433.82 1,433.51 1,433.19 1,432.86 1,432.52 1,432.17 1,431.80 1,431.42 1,431.03 1,430.62 1,430.21 1,429.78 1,429.34 1,428.89 1,428.42 1,427.94 1,427.45 1,426.95 1,426.44 1,425.91 1,425.37 1,424.82 1,424.26 1,423.68 1,423.10 1,422.50 1,421.88 1,421.26 1,420.62 1,419.97 1,419.31 1,418.64 1,417.95 1,417.26 1,416.55 1,415.82 1,415.09 1,414.34 1,413.58 1,412.81

10480 10485 10490 10495 10500 10505

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.27

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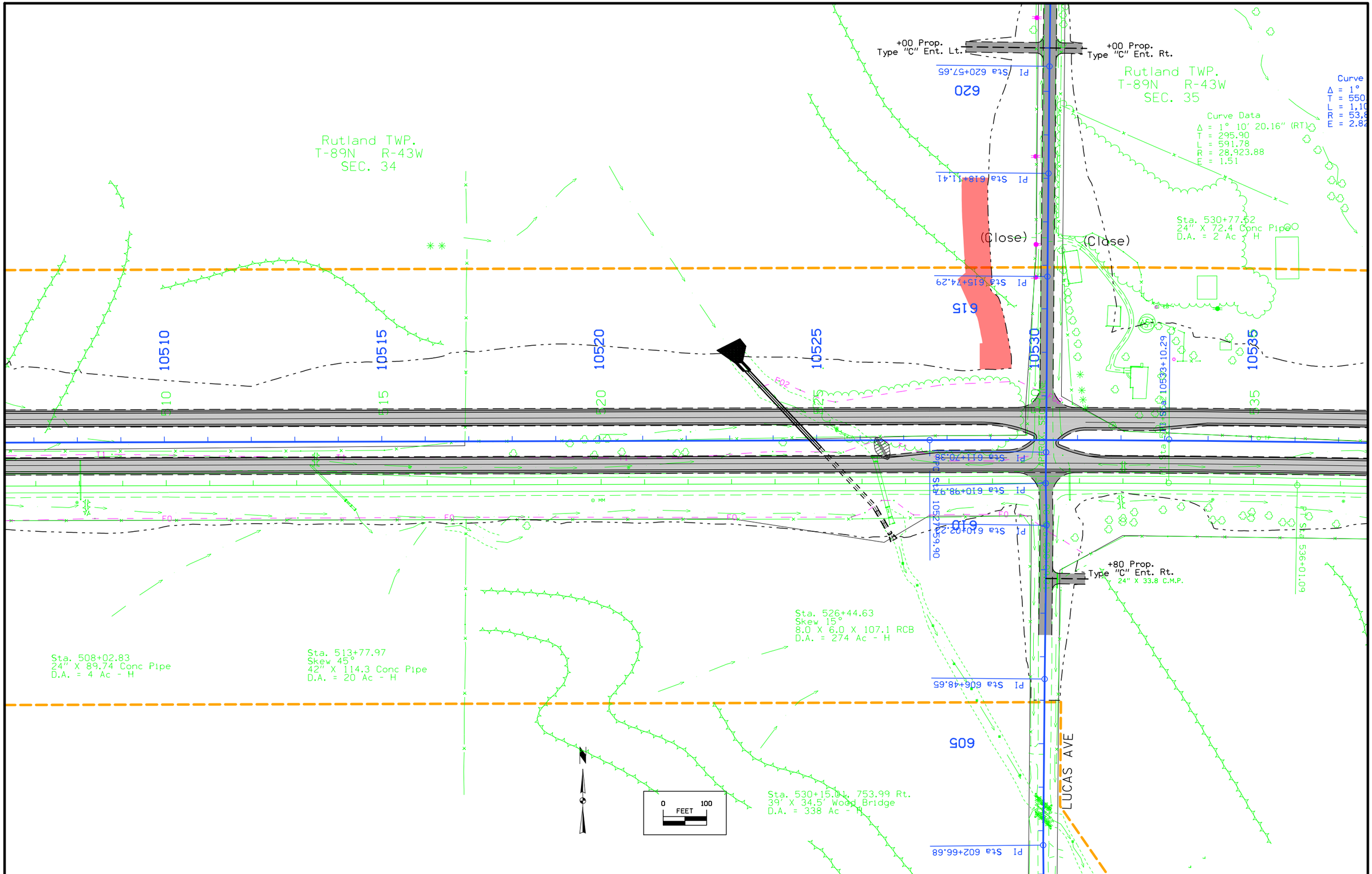

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.28

10:45:35 AM 10/30/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

1450 1440 1430 1420 1410 1400 1390 1380 1370 1360 1350 1340 1330 1320 1310 1300

-0.90% Lt. Ditch Grade

+00 Lt.
1389.30

-5.40% Lt. Ditch Grade

+00 Rt.
1367.70

+00 Lt.
1362.30

-6.20% Lt. Ditch Grade

-3.50% Rt. Ditch Grade

-3.600%

-0.500%

VPI +00.000
Elv 1,355.82
Len 800.00 ft
K = 258

+50 Lt.
1334.40

-3.00% Lt. DG

+00 Lt.
1329.90

+50 Lt.
1331.01

+0.80% Lt.
Ditch Grade

+50 Lt.
1332.61

+3.70% Lt. Ditch Grade

+50 Rt.
1320.45

+00 Rt.
1320.50

+8.60% Rt. Ditch Grade

+50 Lt.
1347.41

+00 Lt.
1346.76

+50 Rt.
1342.00

+5.00% Rt. DG

+00 Rt.
1342.00

+00 Rt.
1347.00

-3.10% Lt. Ditch Grade

-3.40% Rt. Ditch Gr

| | | |

Curve Data
Δ = 1° 10' 20.16" (RT)
T = 550.39
L = 1,100.74
R = 53,800.00
E = 2.82

Rutland TWP.
T-89N R-43W
SEC. 35

10540 10545 10550 10555 10560 10565

540 545 550 555 560 565

PT Sta. 10538+60.64

(Close)

+58 Prop. Jct. Type "C" Ent. Rt.

24" X 69.0 Conc Pipe

Sta. 539+65.02
8.0 X 8.0 X 137.0 RCB
Skew 30°
D.A. = 310 Ac - H

Sta. 541+42.44
48" X 161.0 C.M.P.
D.A. = 316 Ac - H

Sta. 564+78.56
30" X 73.0 Conc Pipe
D.A. = 6 Ac - H

Sta. 562+31.61
10.0 X 12.0 X 133.0 RCB
Skew 25°
D.A. = 712 Ac - H

Sta. 564+20.49, 76.86 Rt.
42" X 36.0 Conc Pipe W/Flume
D.A. = 23 Ac - H

0 100
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.30

10:45:37 AM 10/30/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

1420 1410 1400 1390 1380 1370 1360 1350 1340 1330 1320 1310 1300 1290 1280 1270

VPI +50.000
Elv 1,338.07
Len 800.00 ft
K = 211

-0.500%
+3.300%

+00 Lt.
1324.76

+50 Lt.
1323.51

+00 Rt.
1319.80

+1.10% Lt. Ditch Grade
+3.00% Rt. Ditch Grade
+1.10% Rt. Ditch Grade

+50 Rt.
1319.65

+50 Rt.
1321.80

+00 Rt.
1332.30

+0.90% Rt. Ditch Grade

+00 Lt.
1336.86

+00 Rt.
1336.80

-1.18% Lt. Ditch Grade
-1.60% Rt. Ditch Grade

+00 Rt.
1319.20

+25 Rt.
1320.00

+50 Lt.
1320.93

+4.00% Rt. Ditch Grade

+00 Lt.
1322.97

10556+58 Prop. Jt.
Type "C" Ent. Rt.

-4%
+5.4%

Lt DG Ditch Grade Ditch Grade Ditch Grade
Rt Ditch Grade Ditch Grade Ditch Grade Ditch Grade Ditch Grade Ditch Grade

1,348.70 1,348.57 1,348.45 1,348.32 1,348.20 1,348.07 1,347.95 1,347.82 1,347.70 1,347.57 1,347.45 1,347.32 1,347.20 1,347.07 1,346.95 1,346.82 1,346.70 1,346.57 1,346.45 1,346.32 1,346.20 1,346.07 1,345.95 1,345.82 1,345.70 1,345.57 1,345.45 1,345.32 1,345.20 1,345.07 1,344.95 1,344.82 1,344.70 1,344.57 1,344.45 1,344.32 1,344.20 1,344.07 1,343.95 1,343.82 1,343.70 1,343.57 1,343.45 1,343.32 1,343.20 1,343.07 1,342.95 1,342.82 1,342.70 1,342.57 1,342.45 1,342.32 1,342.20 1,342.07 1,341.95 1,341.82 1,341.70 1,341.57 1,341.45 1,341.32 1,341.20 1,341.07 1,340.95 1,340.82 1,340.70 1,340.57 1,340.45 1,340.32 1,340.20 1,340.07 1,339.96 1,339.88 1,339.83 1,339.81 1,339.82 1,339.86 1,339.93 1,340.02 1,340.15 1,340.31 1,340.49 1,340.71 1,340.96 1,341.23 1,341.54 1,341.87 1,342.24 1,342.63 1,343.06 1,343.51 1,343.99 1,344.51 1,345.05 1,345.62 1,346.23 1,346.86 1,347.52 1,348.21 1,348.93 1,349.68 1,350.46 1,351.27 1,352.10 1,352.92 1,353.75 1,354.57 1,355.40 1,356.22 1,357.05 1,357.87 1,358.70 1,359.52 1,360.35 1,361.17 1,362.00 1,362.82 1,363.65 1,364.47 1,365.30 1,366.12

10540 10545 10550 10555 10560 10565

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.31

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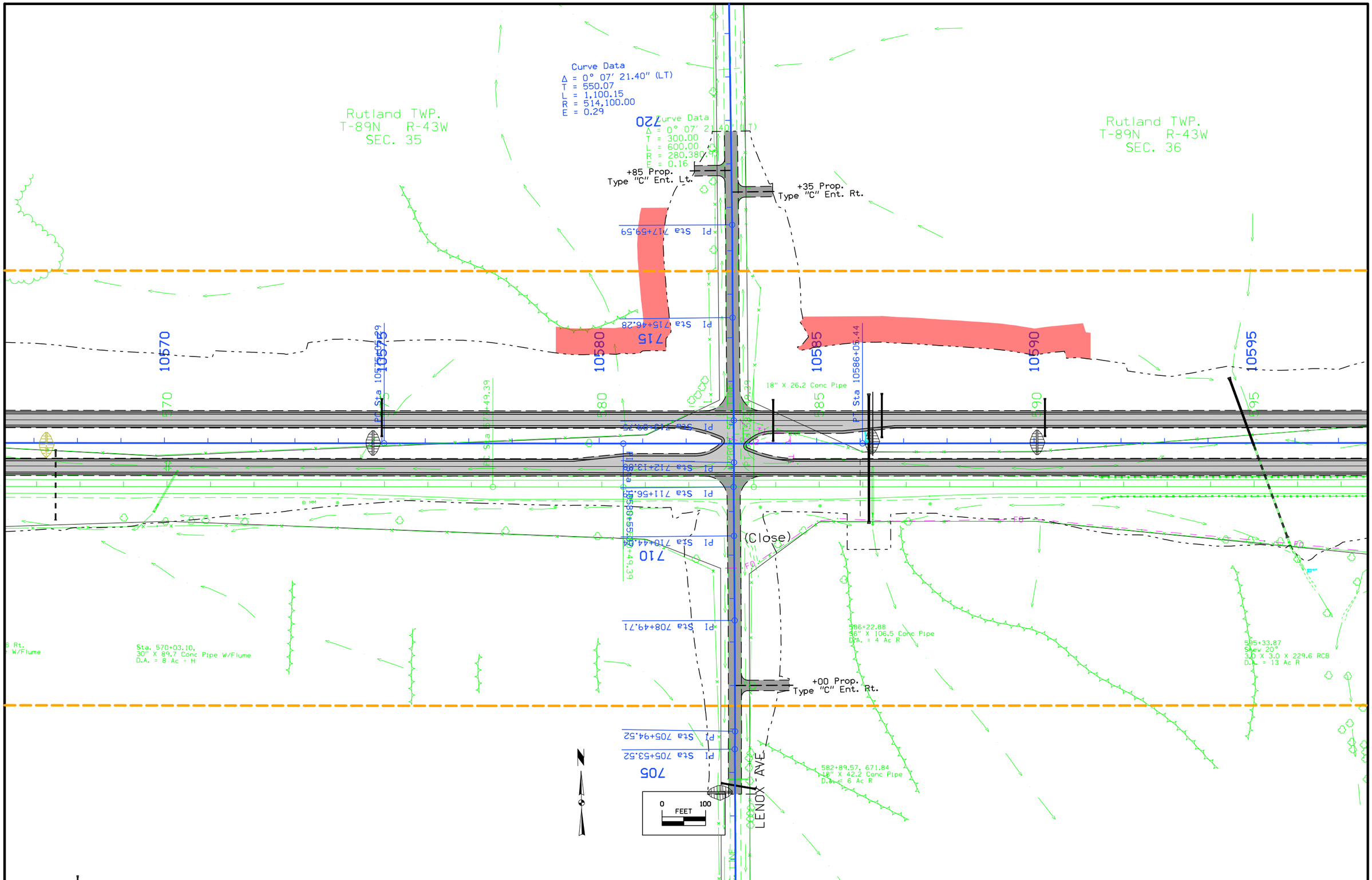

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.32

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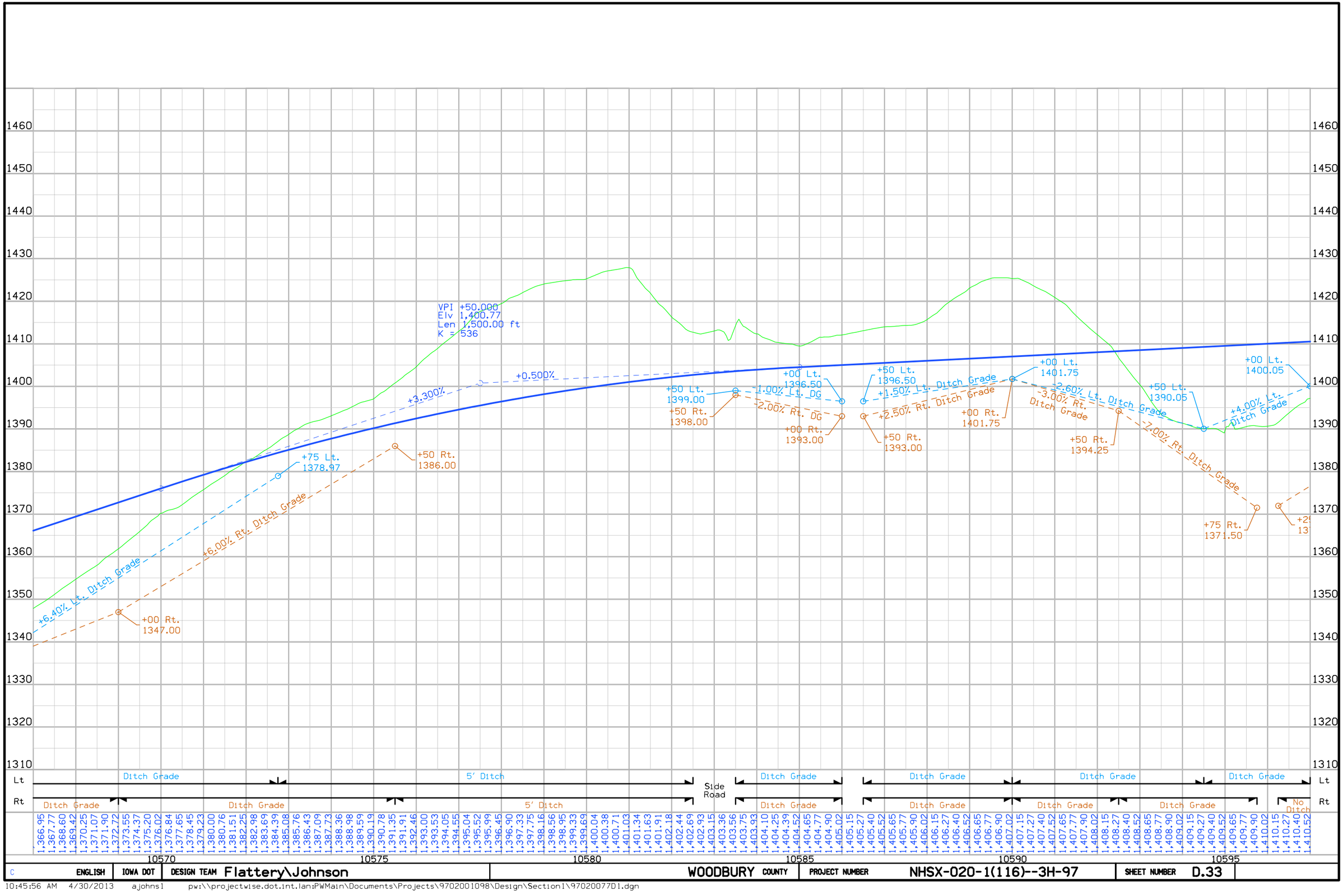

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.33

10:45:56 AM 4/30/2013 ajohns1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702001098\Design\Section1\97020077D1.dgn

Rutland TWP.
T-89N R-43W
SEC. 36

10600 10605 10610 10615 10620 10625

FO

598+89.53
Skew 30°
3.0 X 3.0 X 263.1 RCB
D.A. = 19 Ac R

603+55.96
Skew 30°
24" X 83.2 Conc Pipe
D.A. = 3 Ac R

628+10.61, 66.25 Rt
42" X 29.5 Conc Pip
D.A. = 30 Ac R

0 FEET 100

C ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER D.34

10:45:40 AM 10/30/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn



C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.35

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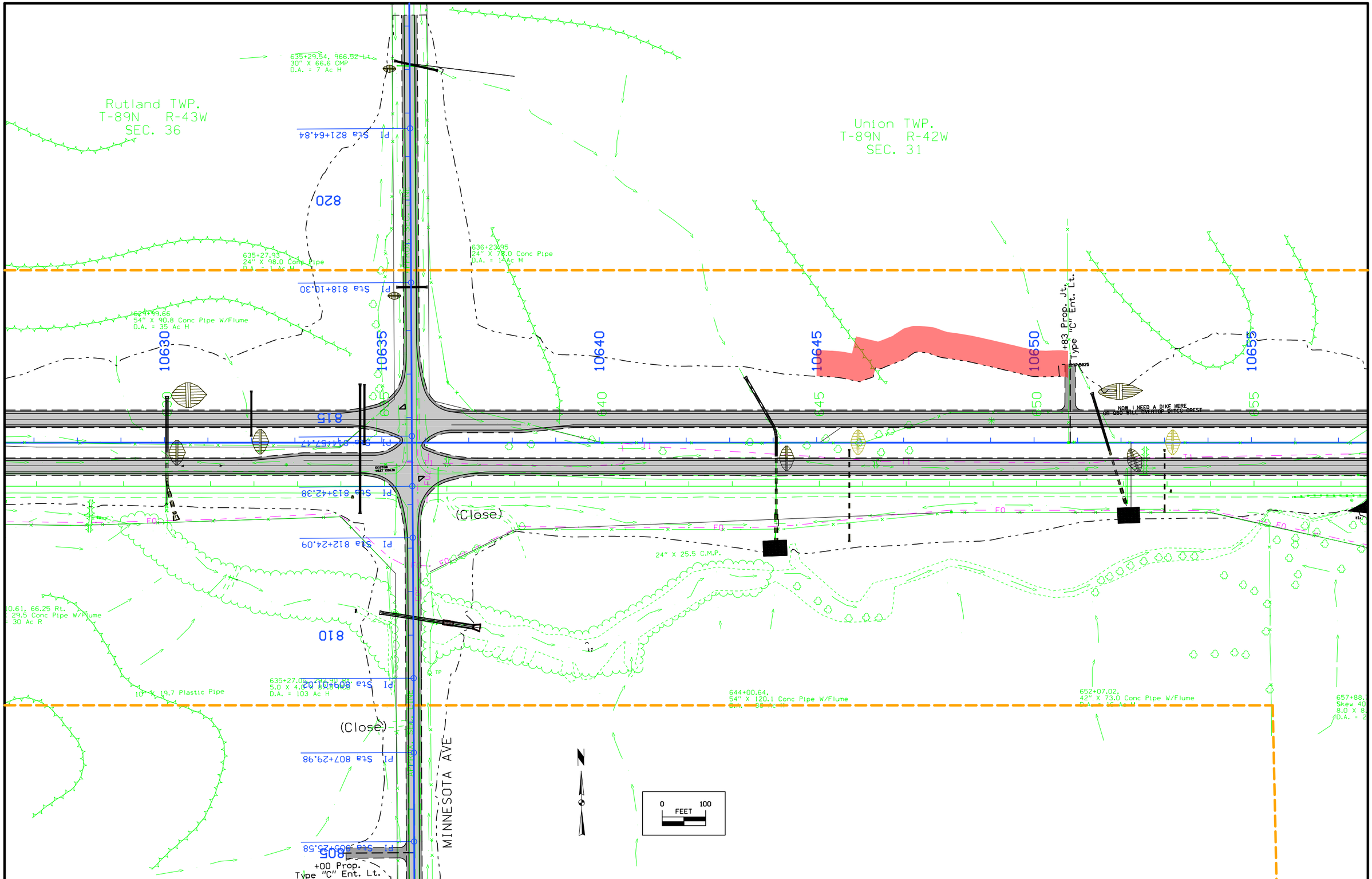

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.36

10:35:48 AM ajohns1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702001098\Design\Section1\97020077D1.dgn

VPI +00.000
Elv 1,353.52
Len 750.00 ft
K = 214

VPI +00.000
Elv 1,347.52
Len 1,650.00 ft
K = 550

10650+83 Prop. Jt.
Type "C" Ent. Lt.

-5.8% -4%

-2.50% Lt. Ditch Grade
-0.500%
-0.500%
-3.500%
-1.20% Lt. Ditch Grade
-1.30% Rt. Ditch Grade
-4.20% Lt. Ditch Grade
-5.70% Rt. Ditch Grade
-4.40% Lt. Ditch Grade
-4.80% Lt. Ditch Grade
-0.90% Rt. Ditch Grade
-2.40% Rt. Ditch Grade

+00 Lt.
1344.00

+00 Rt.
1338.87

+25 Rt.
1333.35

+00 Lt.
1338.00

+00 Lt.
1338.65

+75 Rt.
1330.42

+00 Lt.
1317.90

+25 Lt.
1312.40

+25 Lt.
1310.40

2.00% DG
1.20% DG
4.00% DG

+50 Lt.
1311.90

+00 Rt.
1289.10

+25 Lt.
1294.80

2.80% DG

+00 Lt.
1296.90

+00 Rt.
1281.90

+0
12

1400
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260
1250

Lt Ditch Grade | Ditch Grade | Ditch Grade | DG | DG | DG | Ditch Grade | DG | Ditch Grade
Rt Ditch Grade | Ditch Grade | Side Road | Ditch Grade | Ditch Grade | Ditch Grade | Ditch Grade

1,356.26 1,355.74 1,355.25 1,354.79 1,354.36 1,353.95 1,353.58 1,353.24 1,352.92 1,352.64 1,352.38 1,352.15 1,351.96 1,351.79 1,351.65 1,351.52 1,351.38 1,351.22 1,351.06 1,350.88 1,350.69 1,350.49 1,350.28 1,350.06 1,349.83 1,349.59 1,349.33 1,349.06 1,348.78 1,348.49 1,348.19 1,347.88 1,347.56 1,347.22 1,346.88 1,346.52 1,346.15 1,345.77 1,345.38 1,344.97 1,344.56 1,344.13 1,343.69 1,343.24 1,342.78 1,342.31 1,341.83 1,341.34 1,340.83 1,340.31 1,339.78 1,339.24 1,338.69 1,338.13 1,337.56 1,336.97 1,336.38 1,335.77 1,335.15 1,334.52 1,333.88 1,333.22 1,332.56 1,331.88 1,331.19 1,330.49 1,329.78 1,329.06 1,328.33 1,327.59 1,326.83 1,326.06 1,325.28 1,324.49 1,323.69 1,322.88 1,322.06 1,321.22 1,320.38 1,319.52 1,318.65 1,317.77 1,316.90 1,316.02 1,315.15 1,314.27 1,313.40 1,312.52 1,311.65 1,310.77 1,309.90 1,309.02 1,308.15 1,307.27 1,306.40 1,305.52 1,304.65 1,303.77 1,302.90 1,302.02 1,301.15 1,300.27 1,299.40 1,298.52 1,297.65 1,296.77 1,295.90 1,295.02 1,294.15 1,293.27 1,292.40 1,291.52 1,290.65 1,289.77 1,288.90 1,288.02 1,287.15 1,286.27 1,285.41 1,284.57

10630 10635 10640 10645 10650 10655

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.37

10:35:51 AM 4/30/2013 ajohns1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702001098\Design\Section1\97020077D1.dgn

Union TWP.
T-89N R-42W
SEC. 31

10660 10665 10670 10675 10680 10685

657+88.74
Skew 40°
8.0 X 8.0 X 100.4 RCB
D.A. = 230 Ac H

24" X 95.3 C.M.P.

(Close)

+00 Prop. Type "C" Ent. Rt.

670+08.67.
10.0 X 10.0 X 129.8 RCB
D.A. = 1566 Ac H

681+51.90
Skew 30°
36" X 136.2 Conc Pipe W/ Flume
D.A. = 12 Ac H

18" X 85.9 C.M.P.

(Close)

FO

0 FEET 100

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.38

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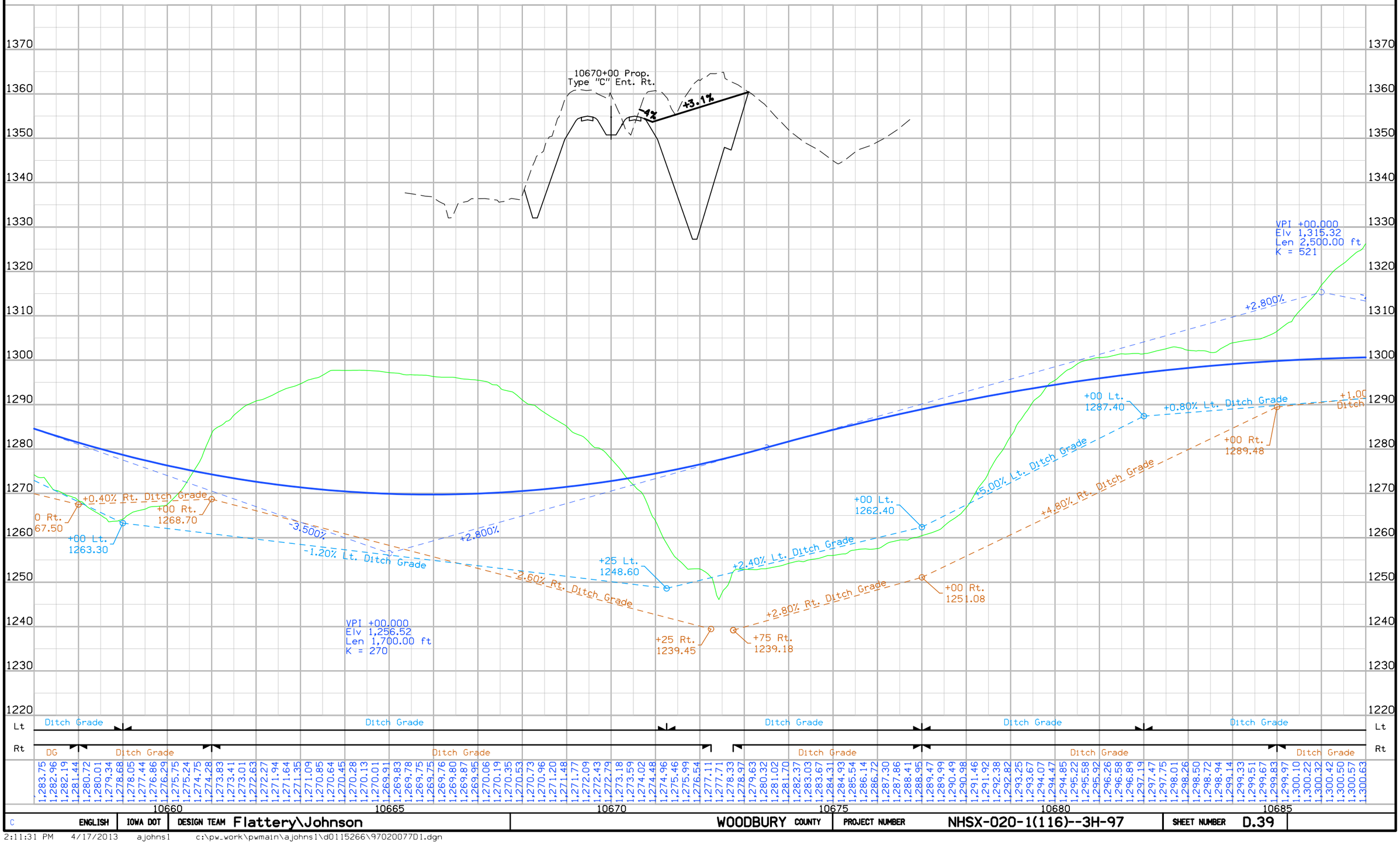

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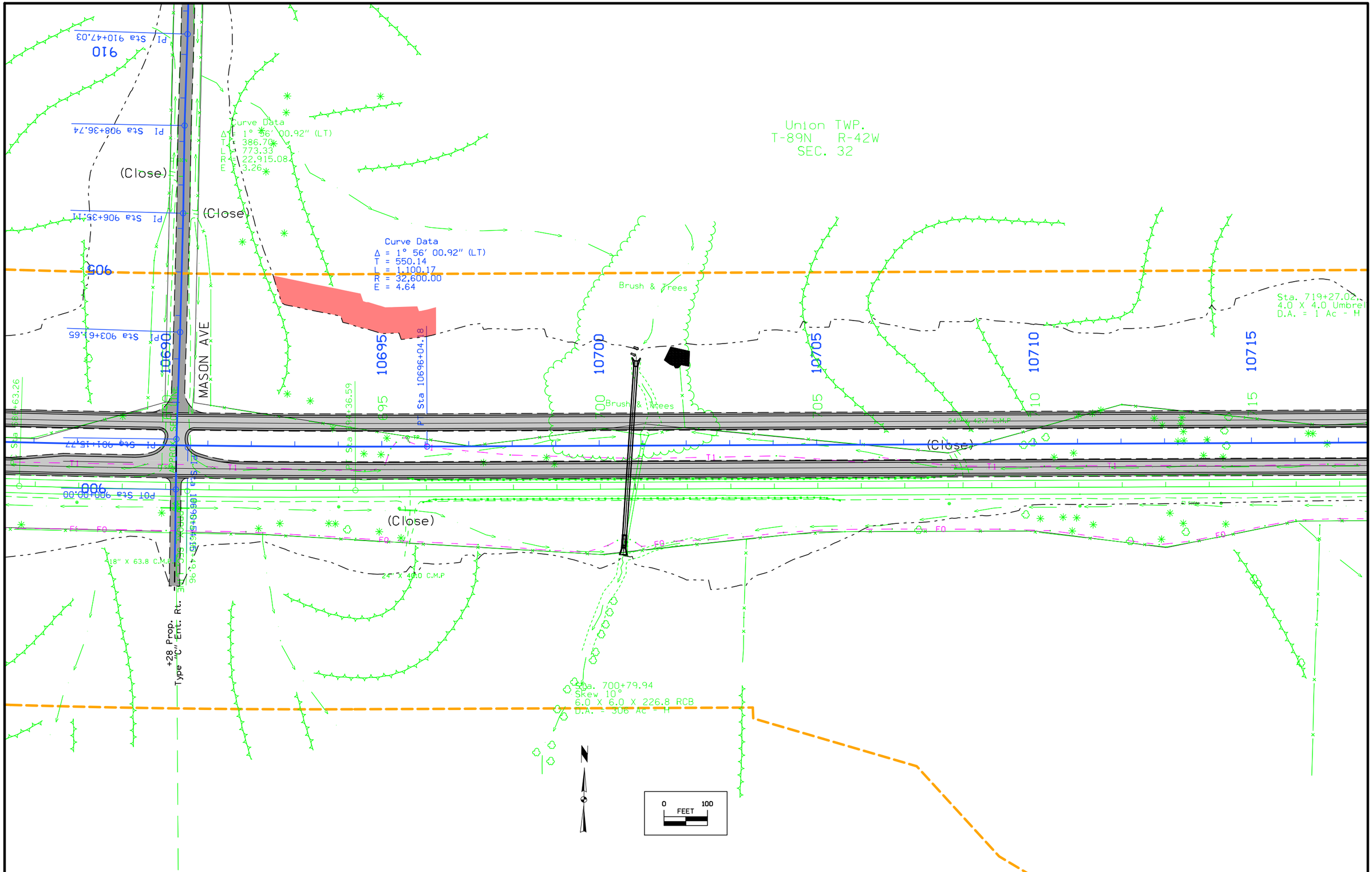

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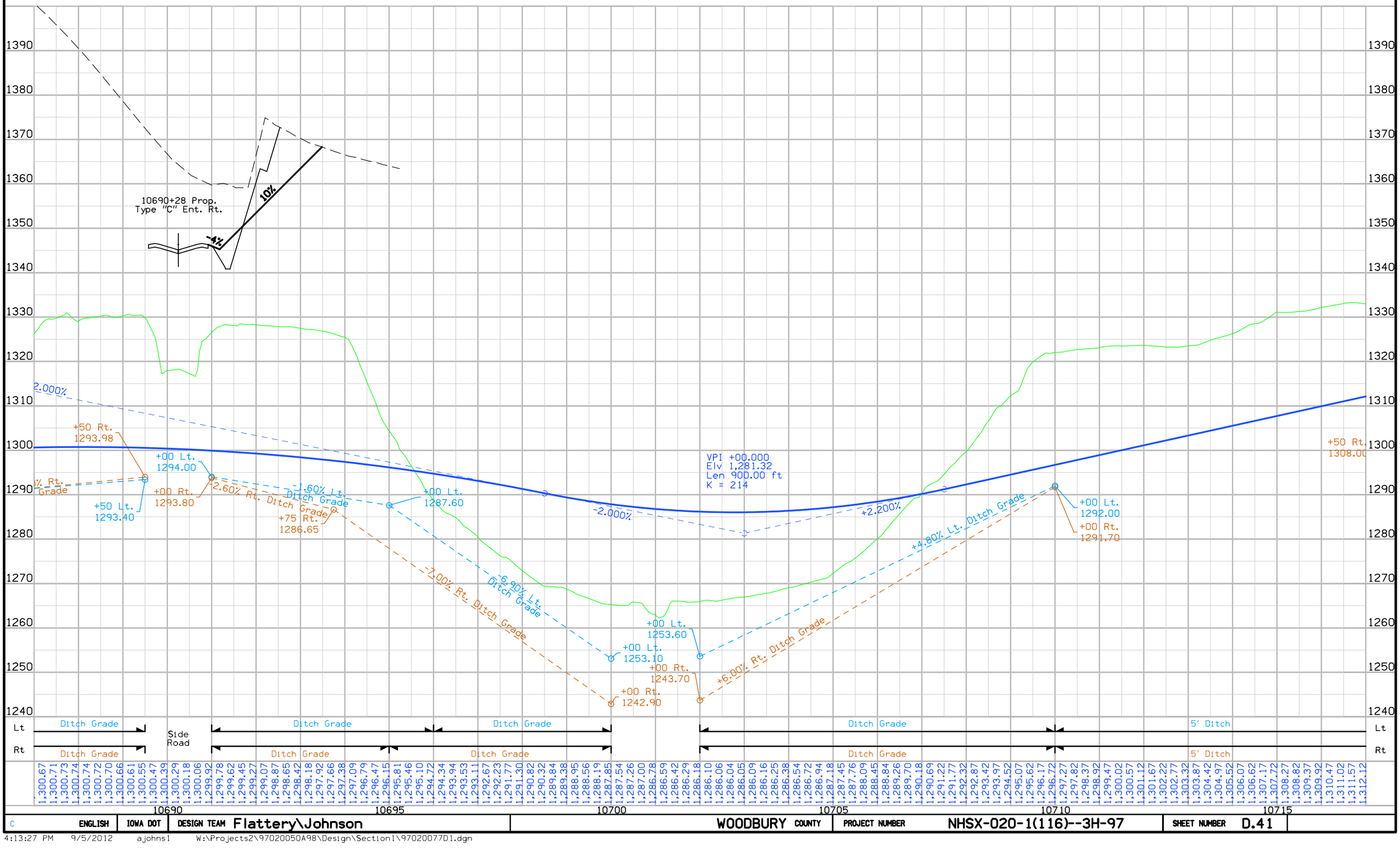

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4:13:27 PM 9/5/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

Union TWP.
T-89N R-42W
SEC. 32

Curve Data
Δ = 1° 09' 58.39" (RT)
T = 550.60
L = 1,101.17
R = 54,100.00
E = 2.80

Curve Data
Δ = 1° 09' 58.39" (RT)
T = 300.00
L = 599.98
R = 29,476.70
E = 1.53

19+27.02, 40.73 Lt.
4.0 Umbrella Intake
1 Ac - H

Sta. 719+25.04, 110.21 Lt.
36" X 67.5 C.M.P.
D.A. = 7 Ac - H

10720 10725 10730 10735 10740 10745

20 25 30 35 40 45

APPROX. SEC. LINE

Brush & Trees

POT Sta 10742+59.08

POT Sta 10737+08.48

POT Sta 739+55.60

POT Sta 745+55.58

18" X 15.7 C.M.P

Sta. 719+26.94,
36" X 79.0 Conc PIPE
D.A. = 8 Ac - H

Sta. 728+73.01
Skew 25°
5.0 X 5.0 X 194.6 RCB W/ flume
D.A. = 69 Ac - H

Sta. 732+60.7
Skew 40°
3.0 X 4.0 X 186.3 RCB
D.A. = 17 Ac - H

Sta. 748+92
24" X 41.5
D.A. = 2 A

0 100
FEET

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.42

10:57:01 AM ajohns1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702001098\Design\Section1\97020077D1.dgn



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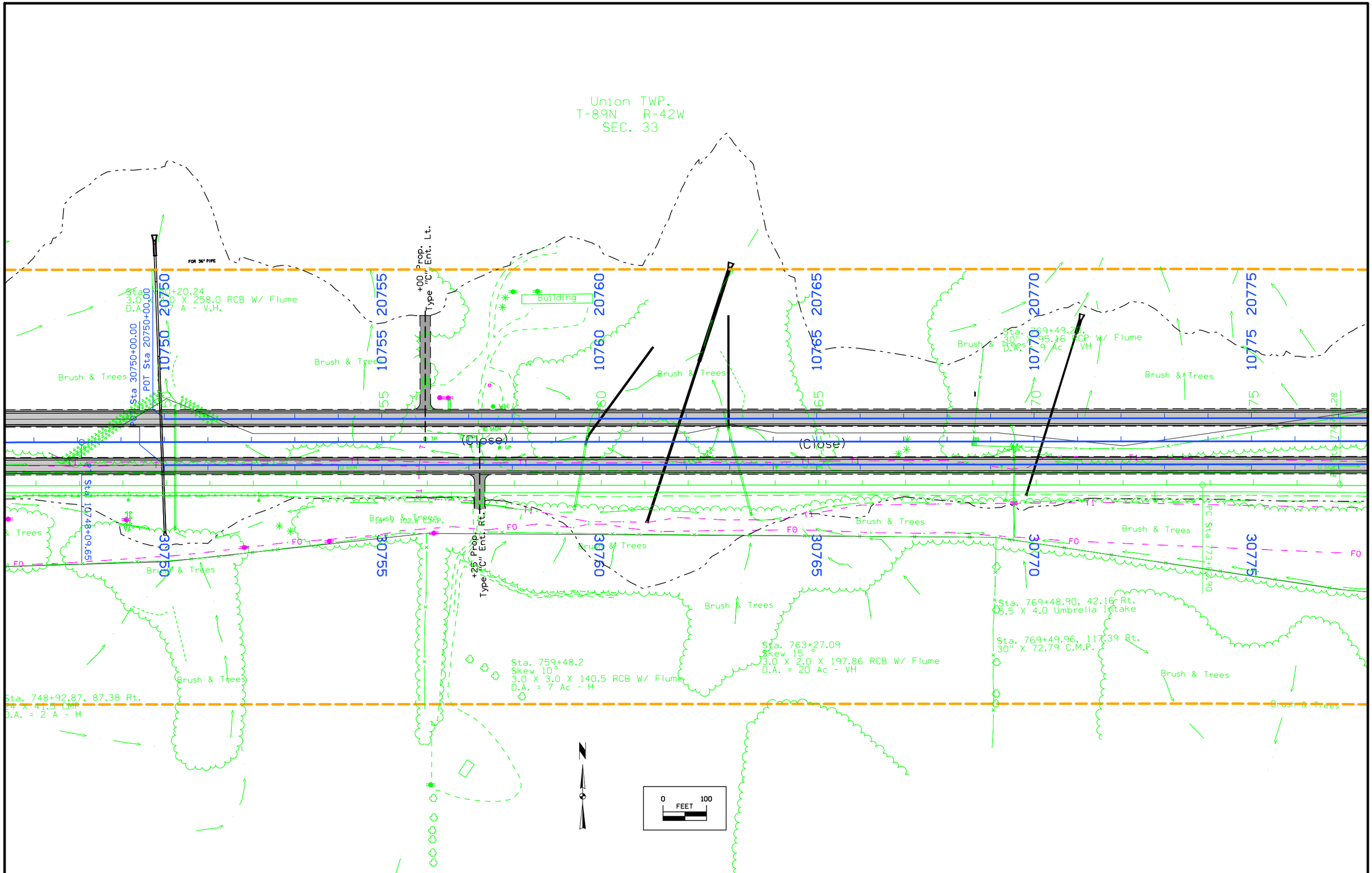
10:57:04 AM 4/30/2013 ajohns1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702001098\Design\Section1\97020077D1.dgn



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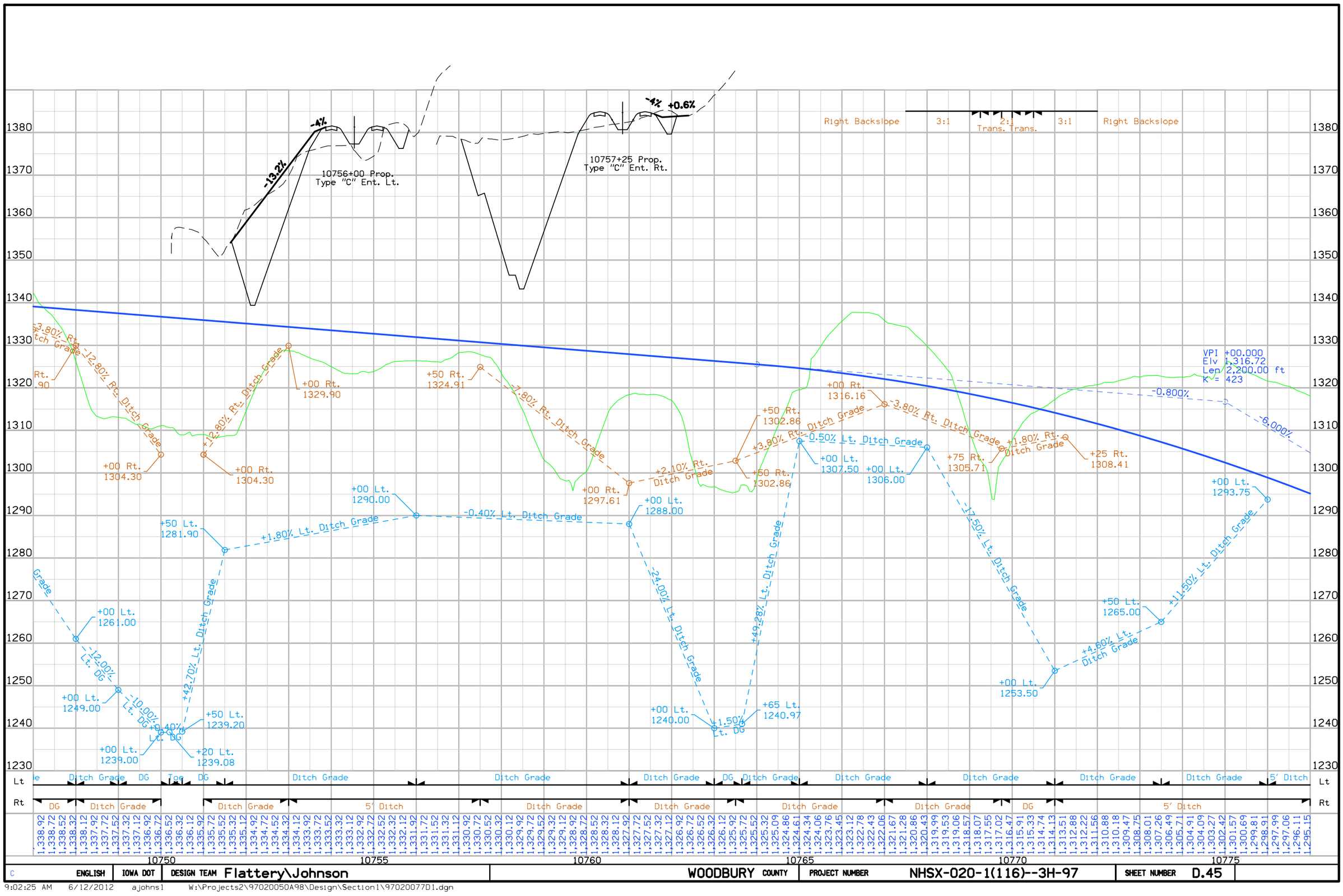

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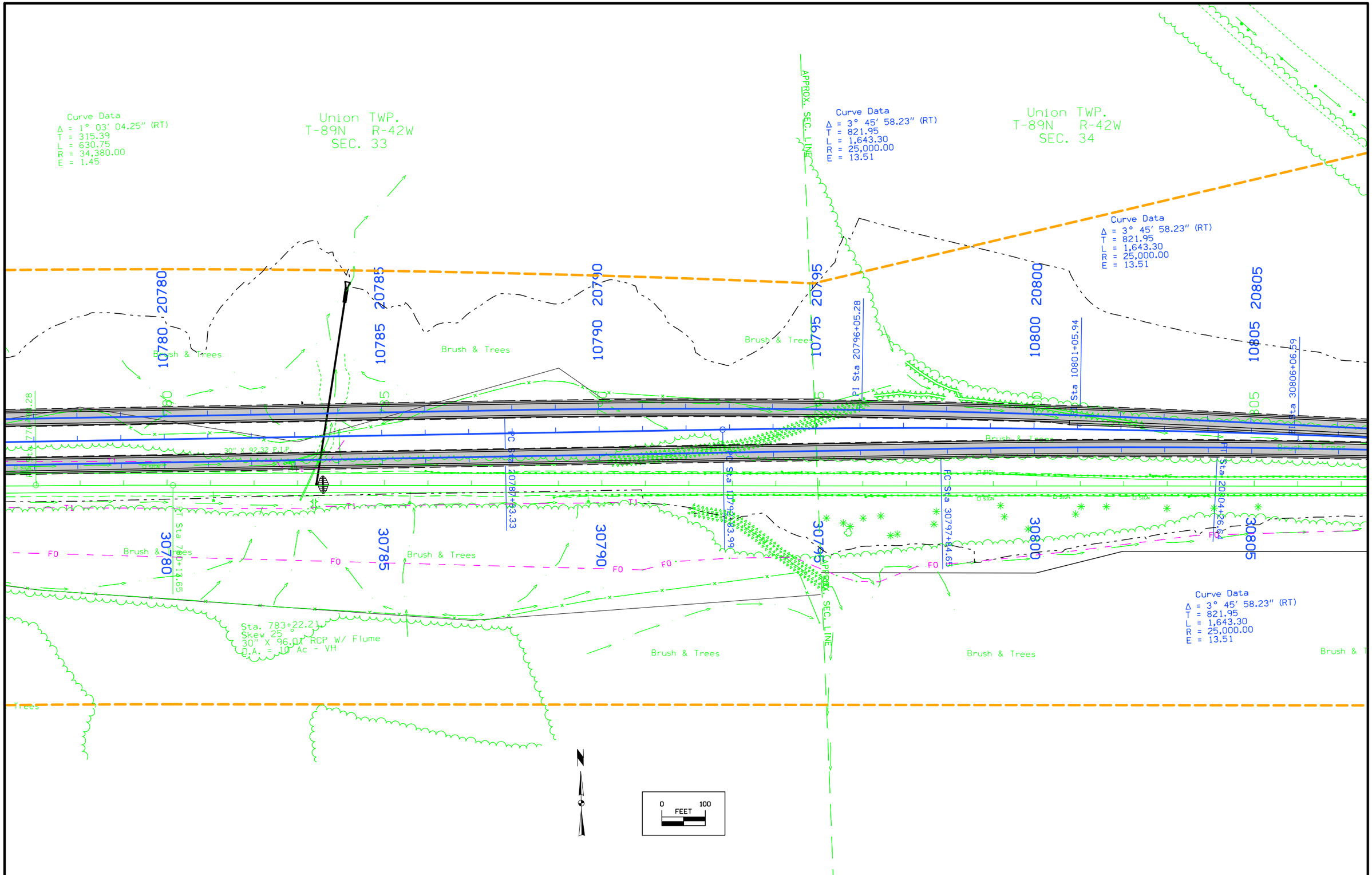

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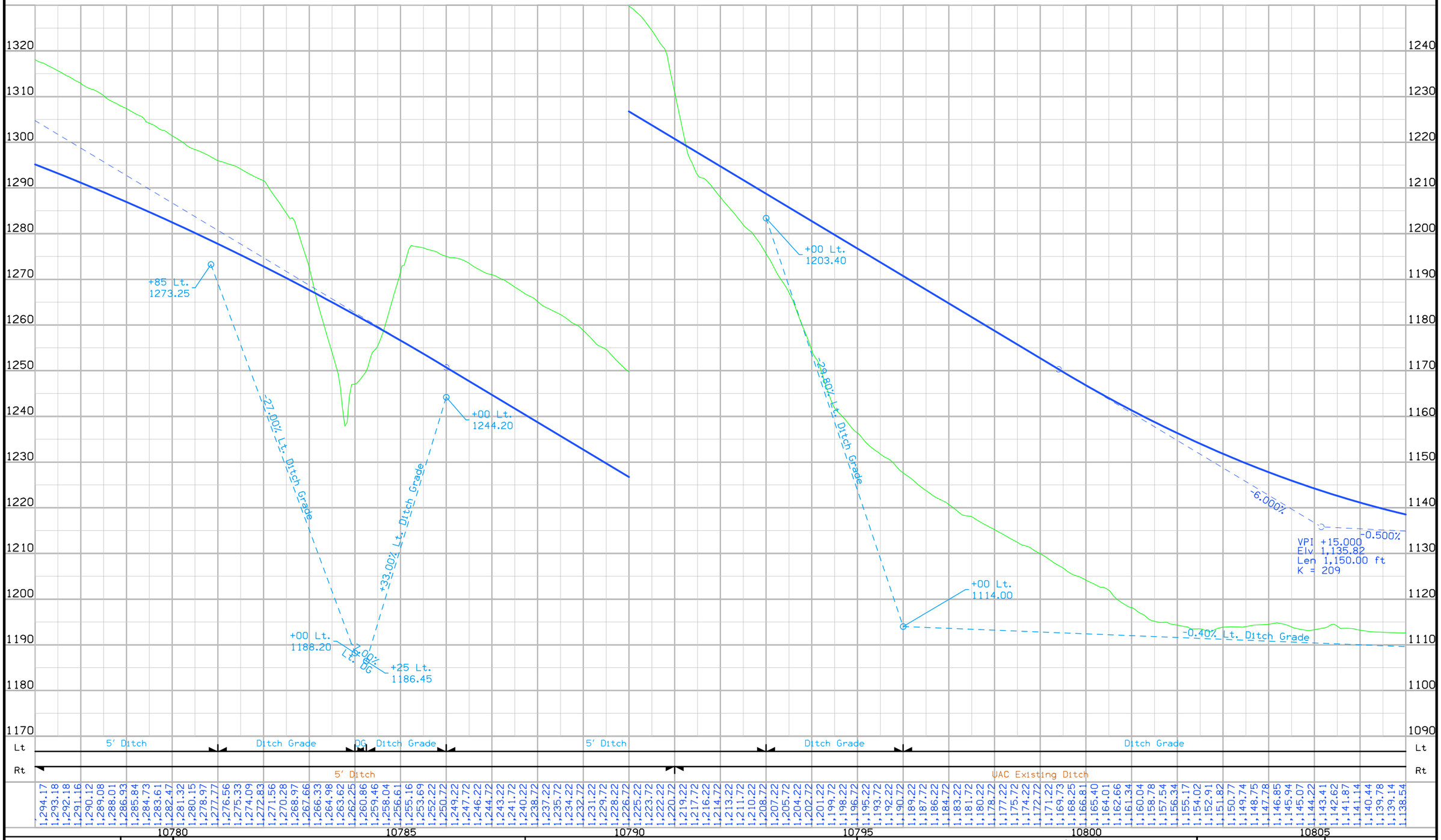


C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER D.47

9:02:27 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

Union TWP.
T-89N R-42W
SEC. 34

STA. 10820+00.00 (ML)
END PROJECT

Curve Data
Δ = 2° 42′ 53.99″ (LT)
T = 284.37
L = 568.63
R = 12,000.00
E = 3.37

Curve Data
Δ = 2° 42′ 53.99″ (LT)
T = 284.37
L = 568.63
R = 12,000.00
E = 3.37

Curve Data
Δ = 2° 42′ 53.99″ (LT)
T = 284.37
L = 568.63
R = 12,000.00
E = 3.37

PT Sta 10809+27.29

Sta. 30814+27.95

Sta. 820+40.46,
Skew 47°
24″ X 156.40 RCP

PC Sta 30825+54.46

PC Sta 10825+77.50

PC Sta 20826+00.54

PT Sta 30831+23.09

PT Sta 10831+46.13

PT Sta 20831+69.17

Sta. 41+24.47,
42″ X 127.0 RCP

Sta. 43+99.96
4.0 X 6.0 X 4

PC Sta 43+16.87

PC Sta 40+80.56

Sta. 828+18.25,
8″ X 98.0 RCP

PT Sta 30828+84.91

PT Sta 10828+61.87

PT Sta 20828+38.83

Sta. 824+00.31,
Skew 58°
30″ X 1[illegible].1 RCP

House

0 FEET 100

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.48

9:02:29 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1.dgn

STA. 10820+00.00 (ML)
END PROJECT

-0.500%

+0.520%

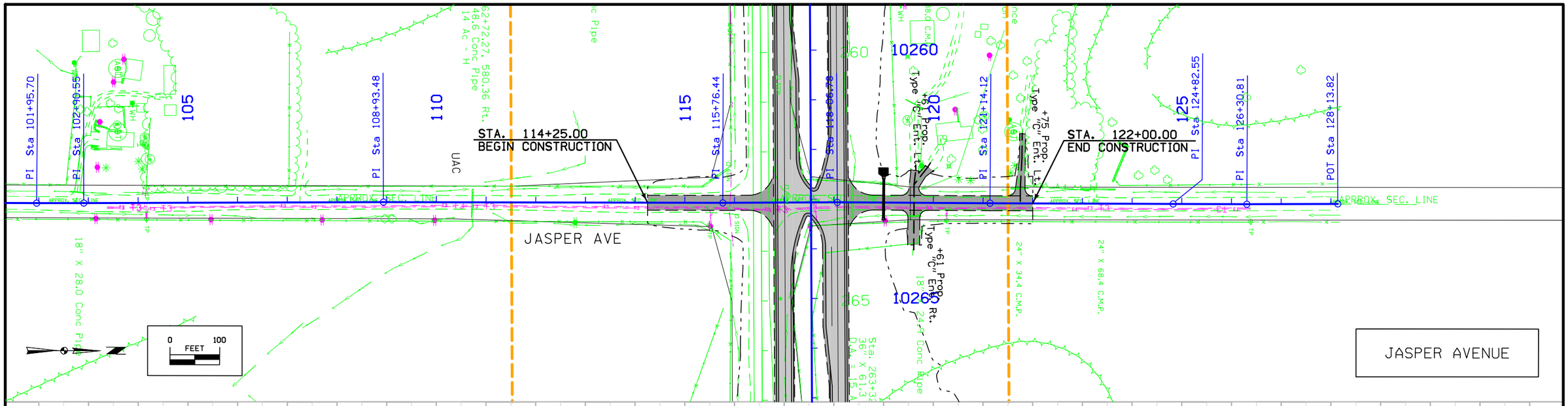
VPI +30.000
Elv 1,126.25
Len 200.00 ft
K = 196

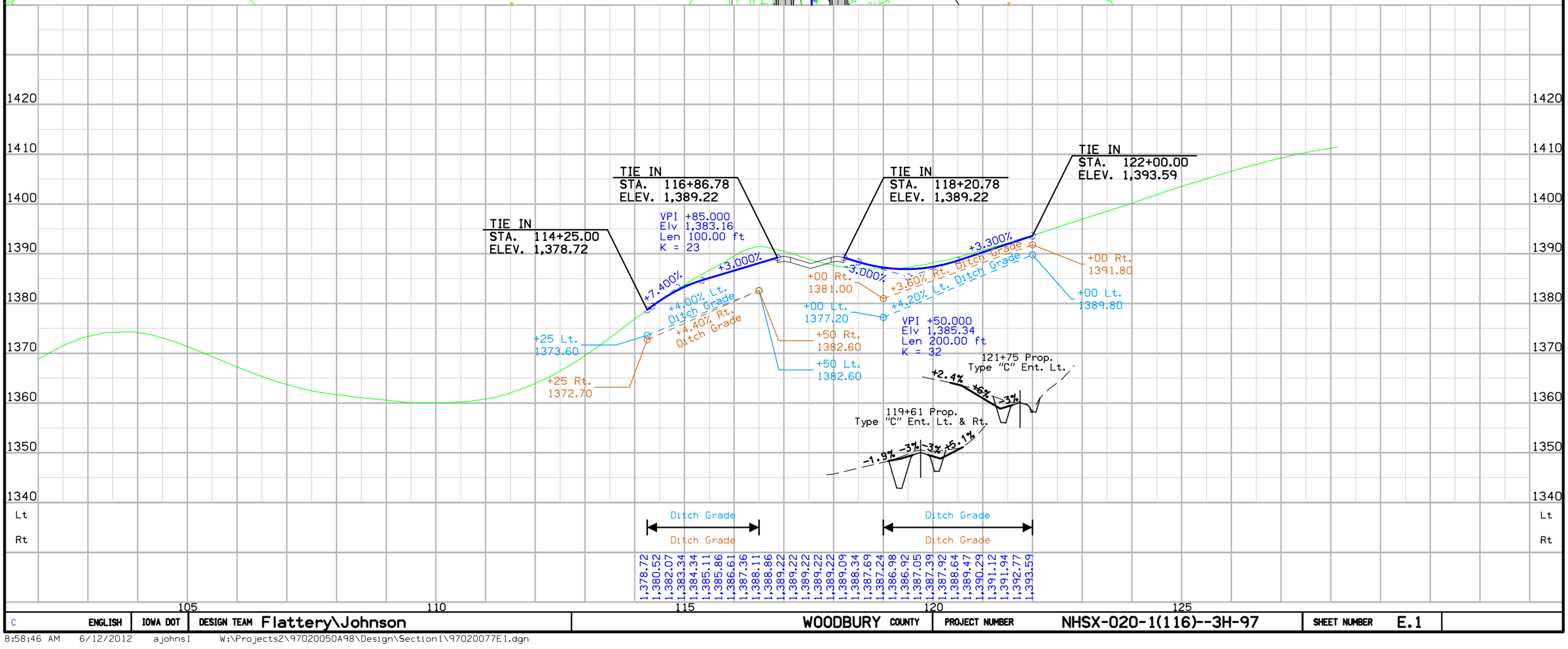
+00 Lt.
1108.00

Ditch Grade

UAC Existing Ditch

| | | |





C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER E.1

8:58:46 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077E1.dgn

STA. 208+00.00
BEGIN CONSTRUCTION

STA. 215+50.00
END CONSTRUCTION

JEWELL AVE

APPROX. SEC. LINE

(Close)

(UAC)

Rutland TWP.
T-89N
R-43W
SEC. 31

0 FEET 100

JEWELL AVENUE

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER E.2

11:43:00 AM 10/22/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077E1.dgn

TIE IN
STA. 212+47.98
ELEV. 1,302.48

TIE IN
STA. 208+00.00
ELEV. 1,278.64

TIE IN
STA. 213+82.00
ELEV. 1,302.47

TIE IN
STA. 215+50.00
ELEV. 1,307.16

207+70 Prop.
Type "C" Ent. Rt.

219+75 Prop.
Type "C" Ent. Lt.

VPI +00.000
Elv 1,279.54
Len 200.00 ft
K = 28

VPI +50.000
Elv 1,299.54
Len 100.00 ft
K = 20

VPI +65.000
Elv 1,299.98
Len 150.00 ft
K = 13

+0.900%
+8.000%
+3.000%
-3.000%
+8.440%
+10.00% Lt. Ditch Grade
+2.00% Rt. DG
+2.51% Rt. Ditch Grade
+9.10% Rt. DG
+2.47% Rt. DG
-3%
6.3%

+00 Lt.
1276.75
+00 Rt.
1275.00
+00 Rt.
1279.00
+25 Rt.
1295.91
+25 Lt.
1278.00
+00 Rt.
1295.01
+50 Rt.
1296.25
+50 Rt.
1305.35
+00 Lt.
1284.70
+25 Lt.
1337.20

Lt	DG	Ditch Grade	No Ditch	Ditch Grade	Ditch Grade	DG	DG	Lt
Rt								Rt

1,278.64 1,278.98 1,279.54 1,280.32 1,281.32 1,282.54 1,283.99 1,285.65 1,287.54 1,289.54 1,291.54 1,293.54 1,295.54 1,297.39 1,298.92 1,300.14 1,301.04 1,301.79 1,302.48 1,302.48 1,302.48 1,302.48 1,302.47 1,302.47 1,301.97 1,301.65 1,301.80 1,302.44 1,303.55 1,305.13 1,307.16

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER E.3

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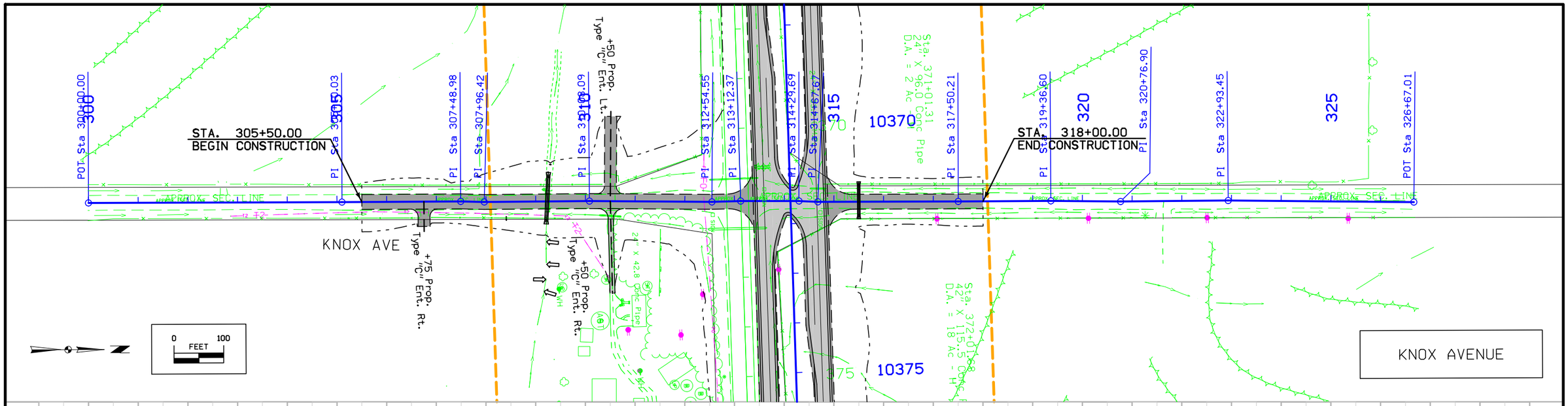

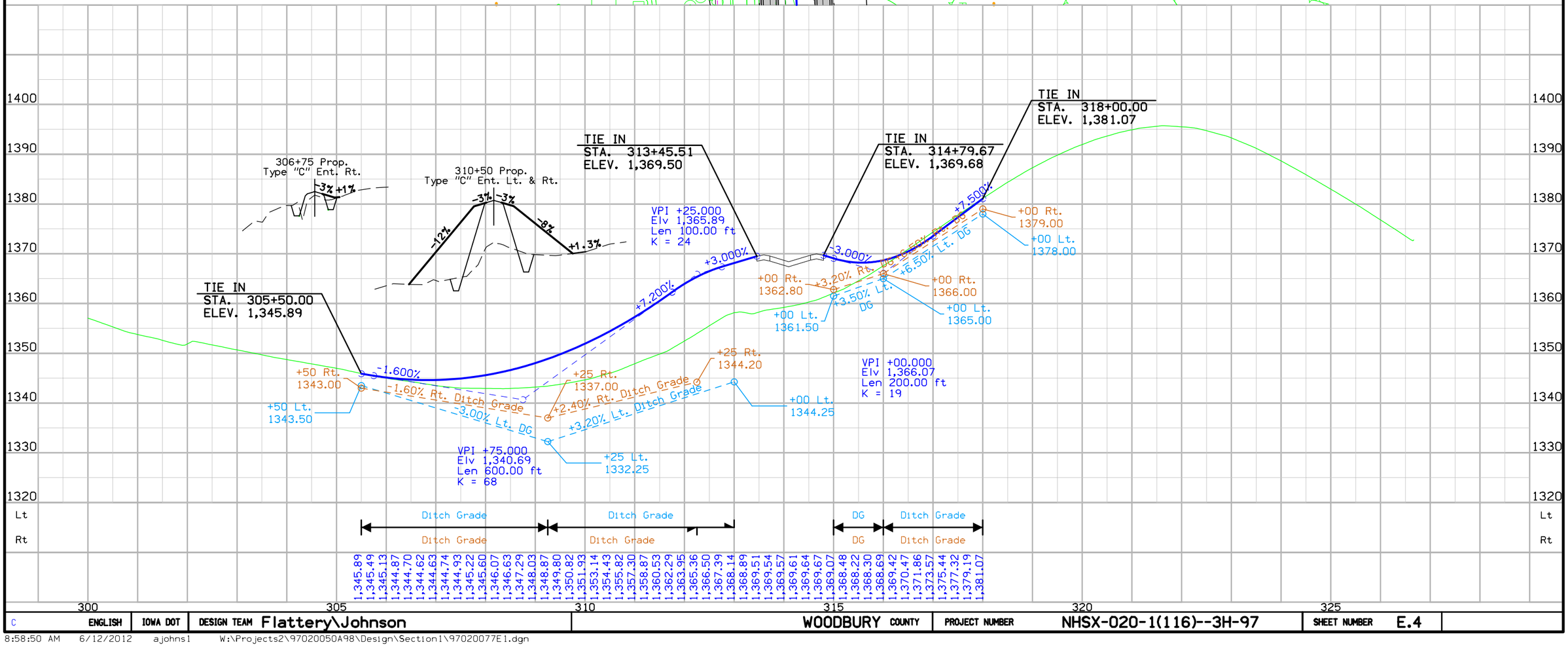

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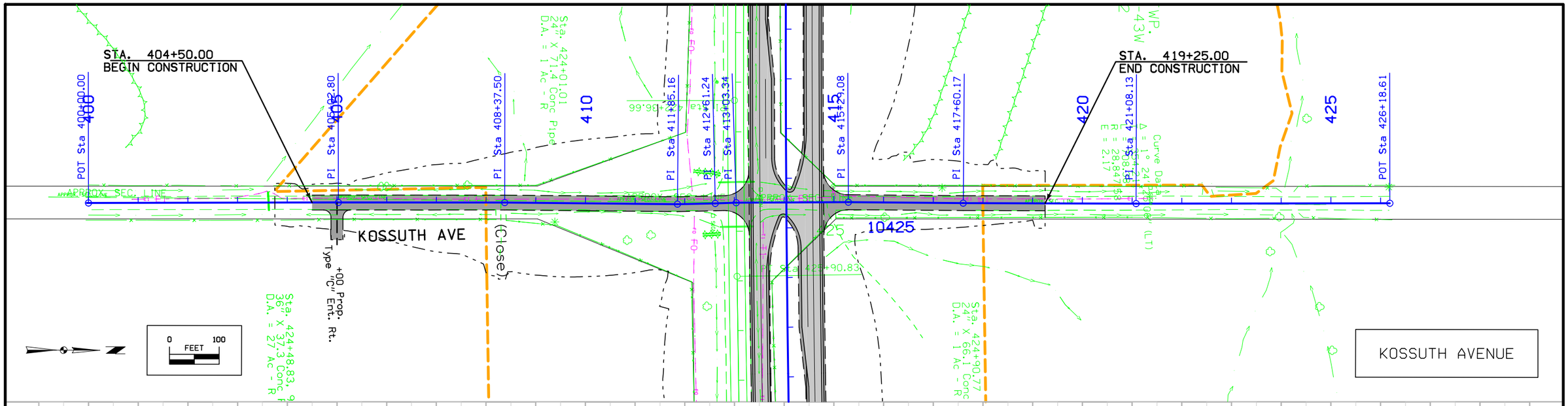

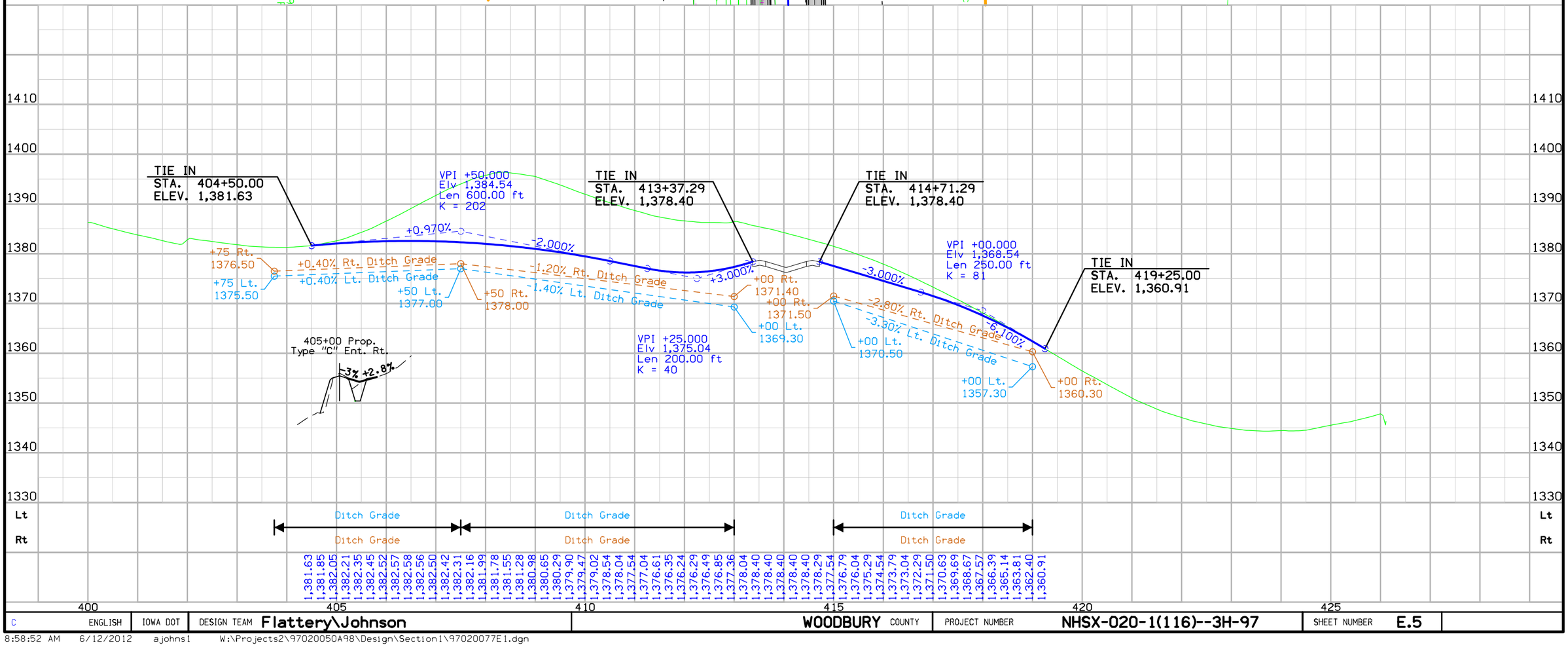

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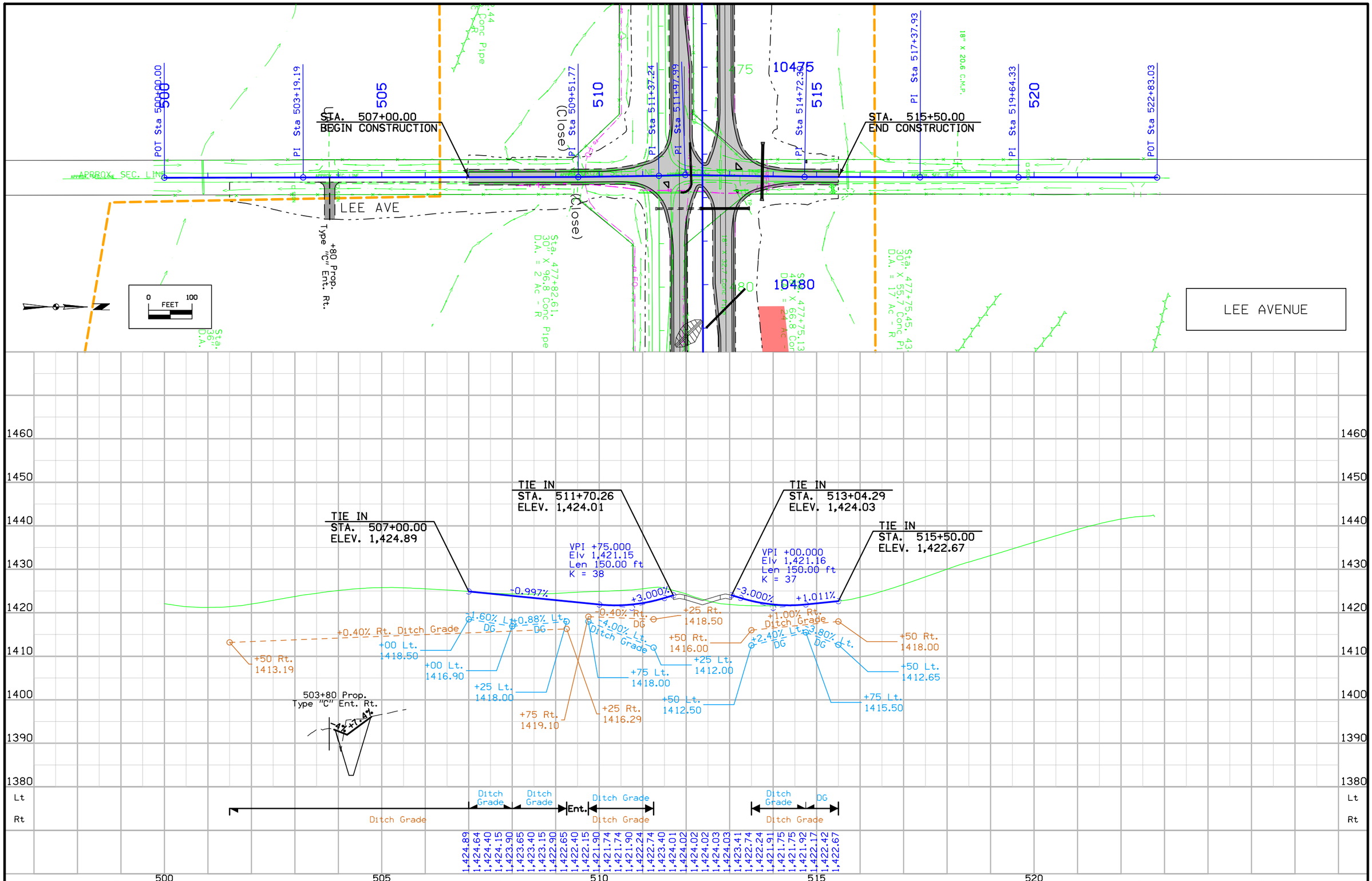

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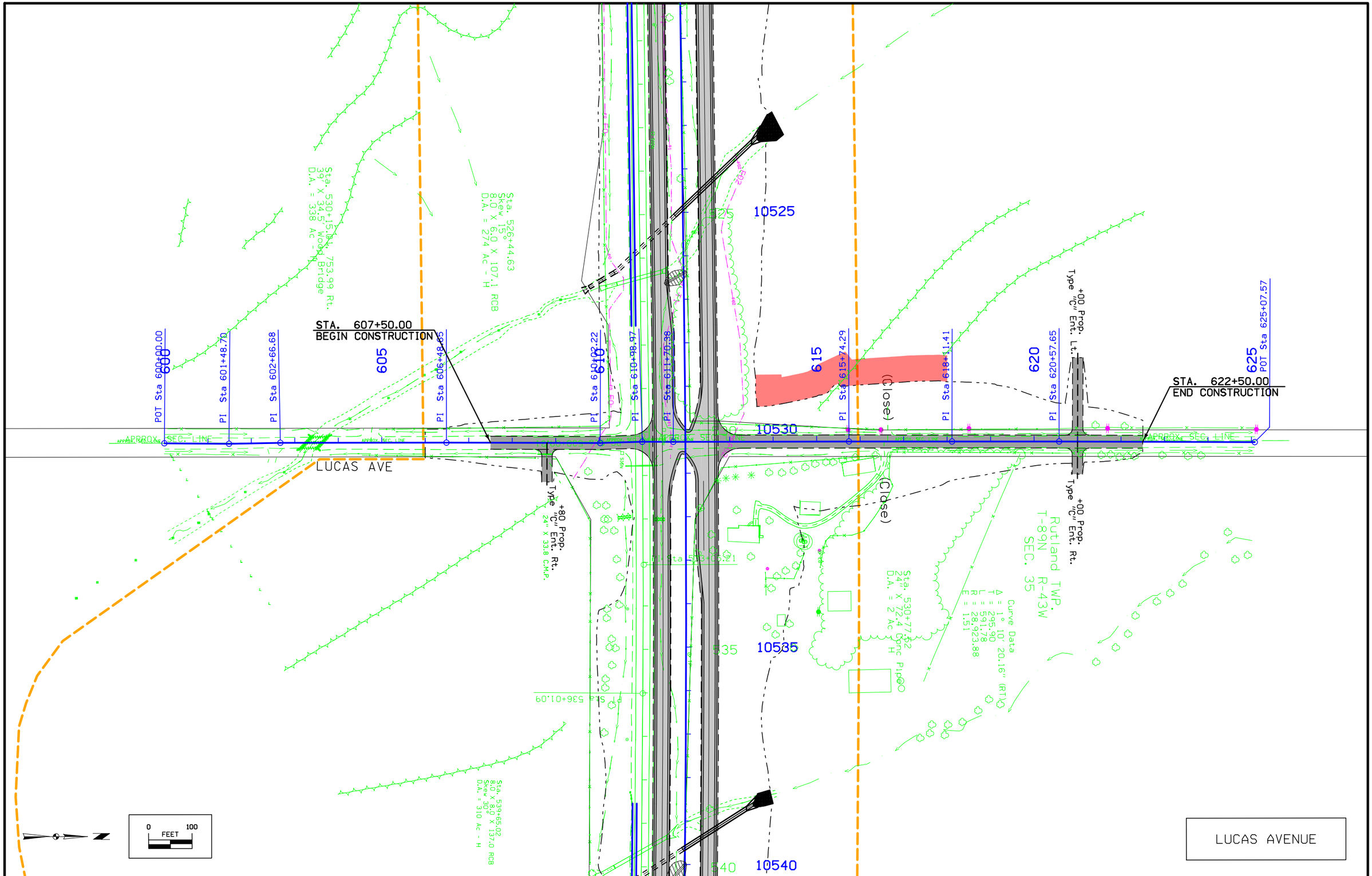

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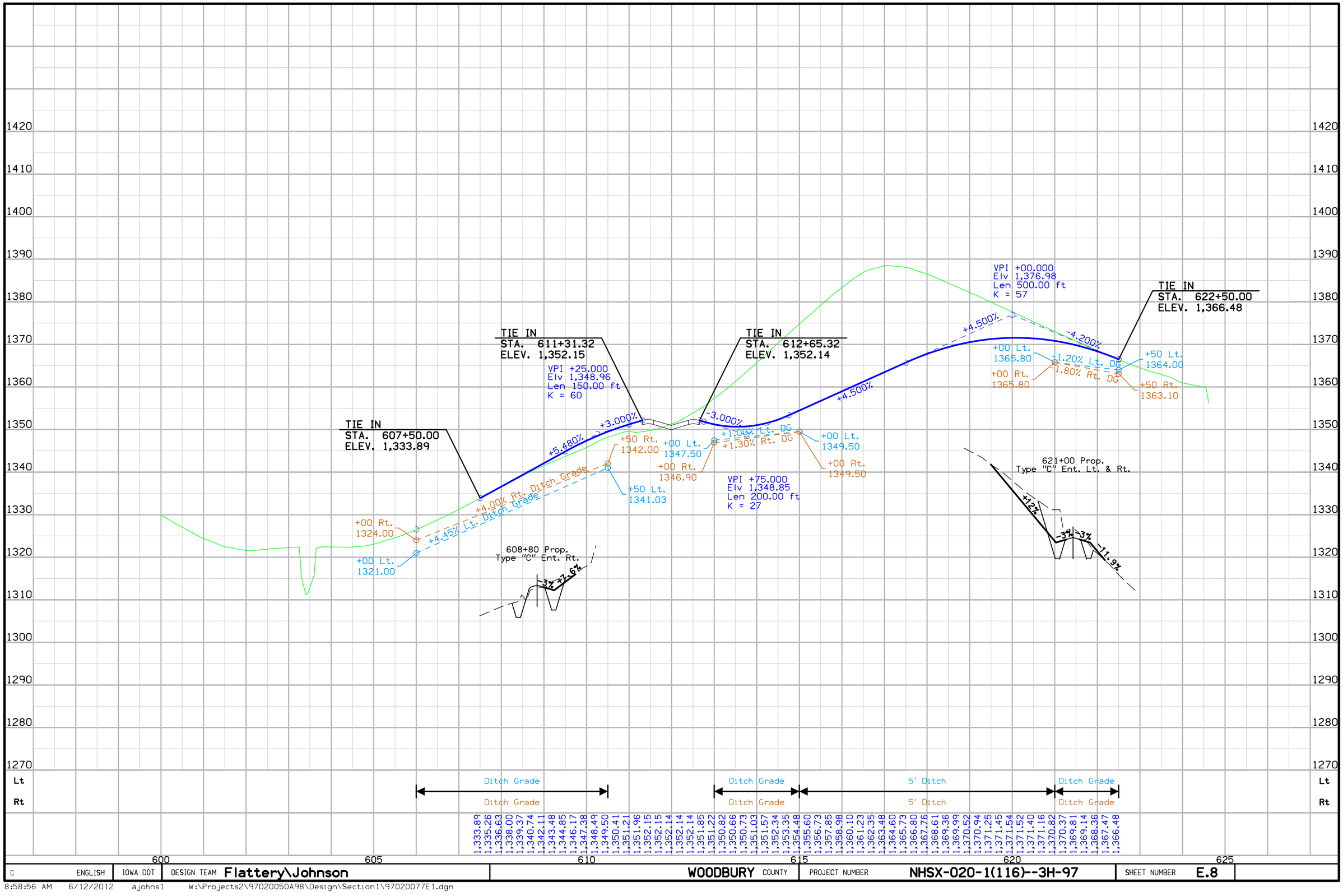

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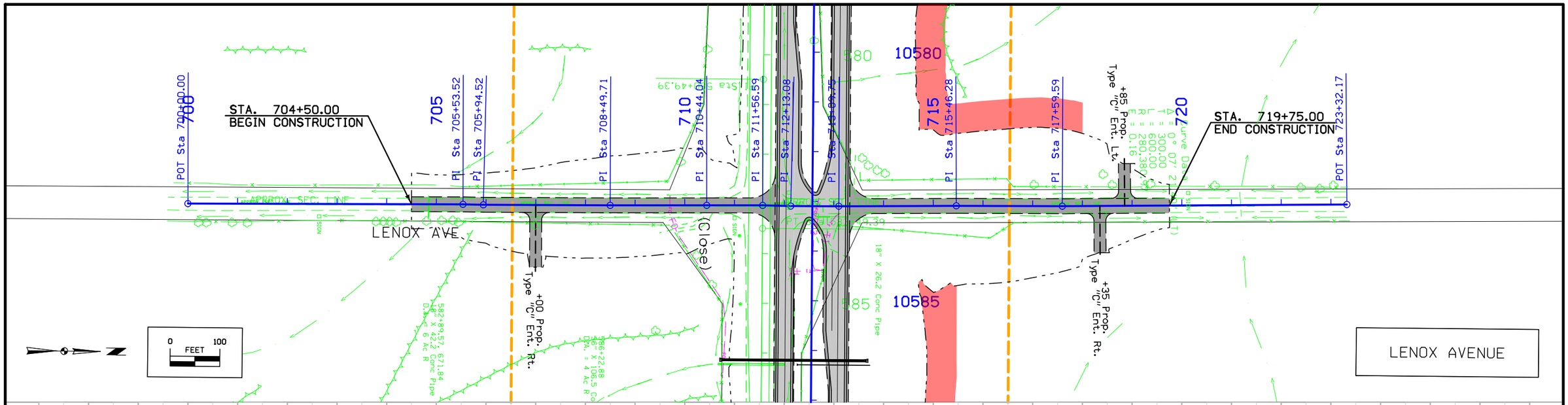

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER E.9

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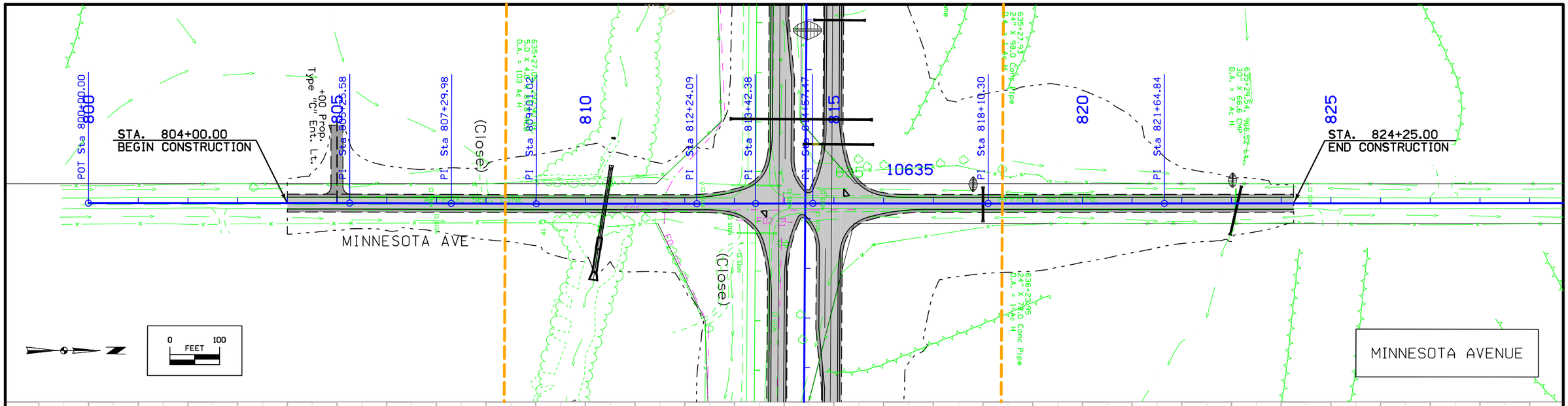

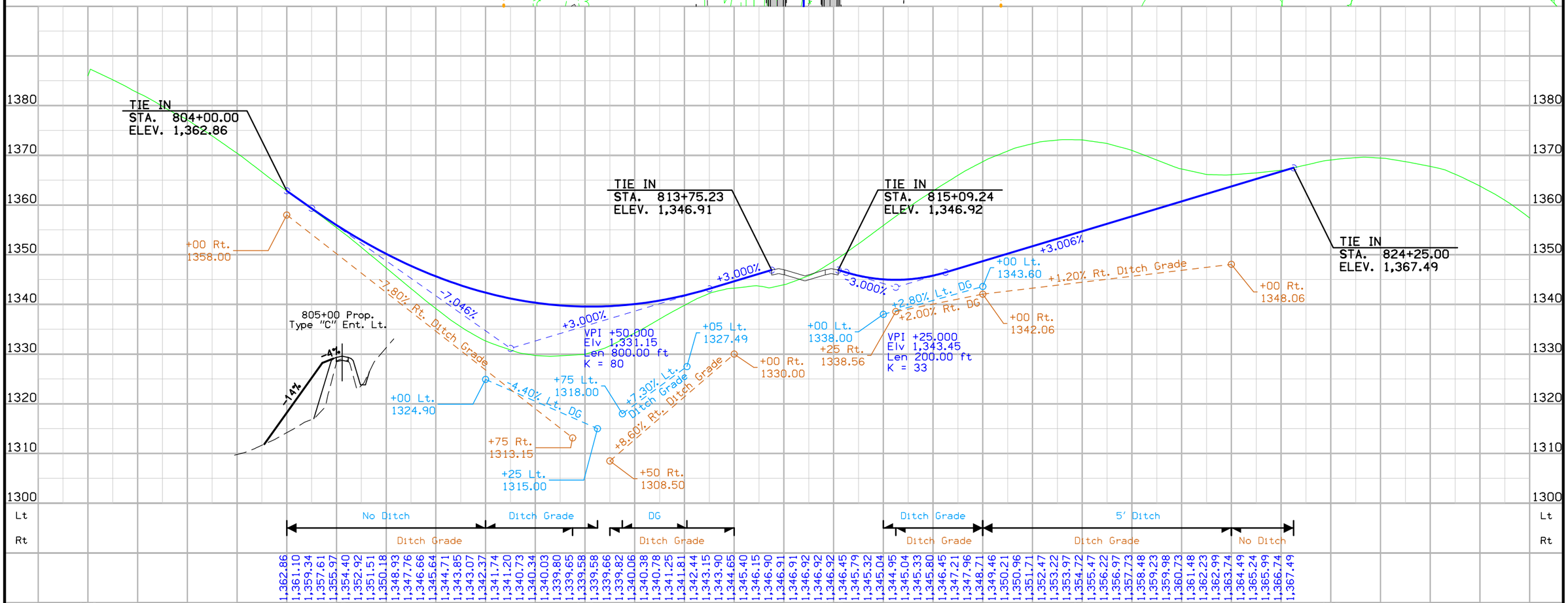

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER E.10

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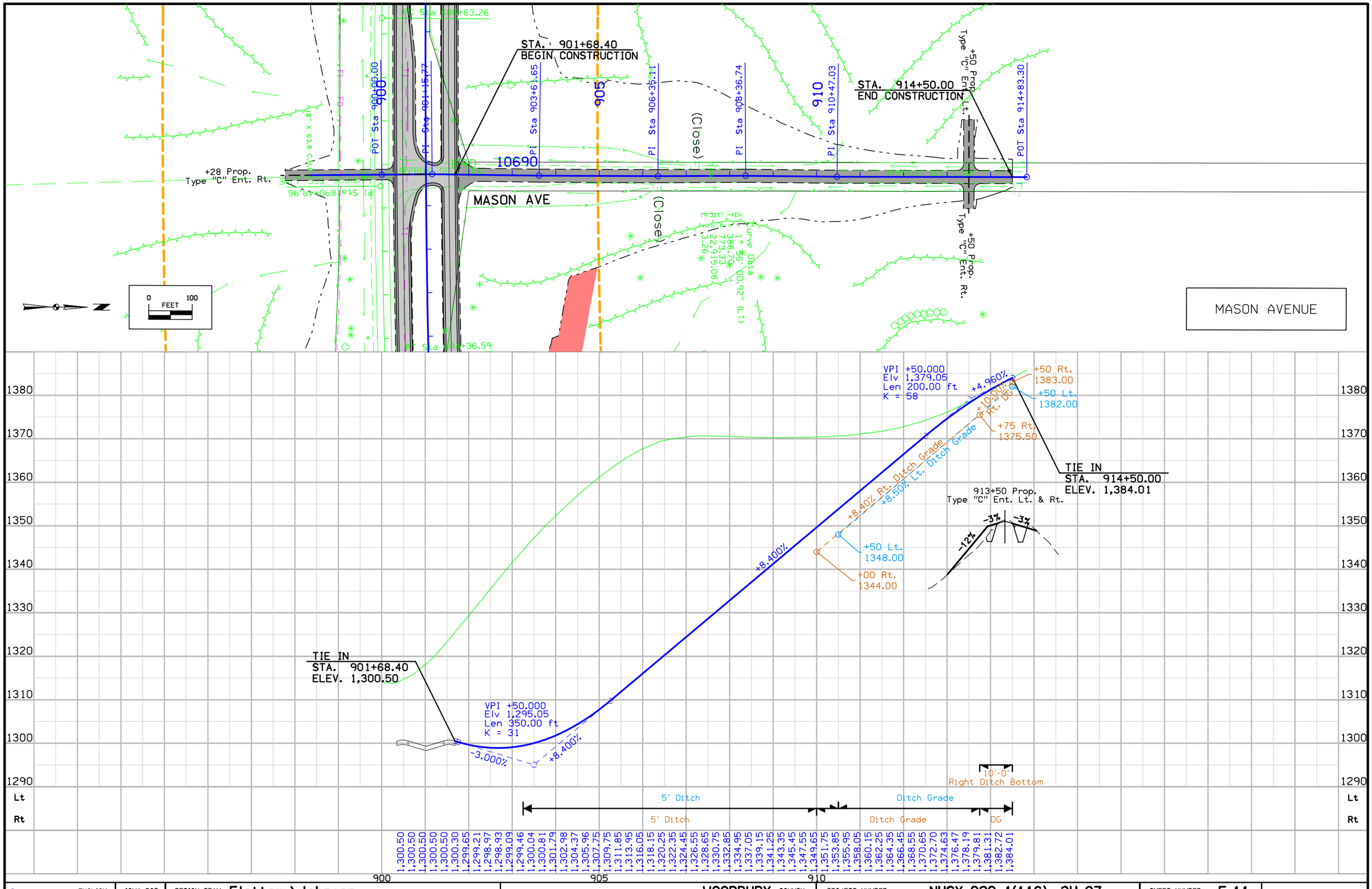

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4:05:12 PM 9/5/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077E1.dgn

Survey Information

General Information

Measurement units for this survey are US survey feet. This survey is for proposed four lane for US 20 between just east of Moville to Early. Project control information is from a 1998 planning study survey (SAP's 130-133). This field survey was to obtain roadway and drainage features and break lines. The entire digital terrain model and topography in the corridor will be completed by supplemental aerial photography.

Vertical Control

Vertical control for this survey is relative to a 1998 digital bench level survey. The 1998 survey is reported to be relative to NAVD88 datum. A level loop was started at BM 997 (USGS BM 29RS)and headed west along US 20 then back to BM 997 (USGS BM 29RS) where adjustments were made. Another run was started at BM 508 then continued east to BM 998 (USGS BM G14) where adjustments were made. NAVD88 elevations were determined at USGS BM 29RS and USGS BM G 14 by converting published NGVD29 elevations using transformation software. The unadjusted bench level run from BM 29RS had a misclosure at BM G 14 of 0.31'. This misclosure is verified by 1998 GPS observations. Even though the misclosure between the two marks is relatively high the error was distributed proportionately along the route.

Vertical equations are as follows:

Datum Benchmark
BM # 997 this survey = (USGS BM 29RS) Elevation = 1378.29 NAVD 1988
= NGVD29 Elevation 1377.761

Datum Benchmark
BM # 998 this survey = (USGS BM G14) Elevation = 1143.26 NAVD 1988
= NGVD29 Elevation 1142.816

Wolf Creek Bridge West Bridge Seat this survey Elevation = 1287.28
= Wolf Creek Bridge West Bridge Elevation = 1287.30
Project # FN-201(58)—21-97

Horizontal Control

Horizontal control for this survey is from 1998 GPS network survey as follows:
GENERAL INFORMATION FOR G.P.S. PROJECT :
SAP 130, NHS-20-1(77)--19-97

SAP 131, NHS-20-2(53)--19-47

SAP 132, NHS-20-2(54)--19-47
SAP 133, NHS-20-2(55)--19-81

STATE PLANE COORDINATE ZONE 1401 (IOWA NORTH LAMBERT)

STATE PLANE COORDINATES HELD AT POINT G046

AVERAGE PROJECT LATITUDE = 42 28 31.38335

RESULTING RADIUS = 6364559.741

MEAN PROJECT ELEVATION = 415.000

SEA LEVEL FACTOR = 0.999934799

AVERAGE PROJECT SCALE FACTOR = 0.999950986

COMBINED FACTOR (GRID) = 0.999885789

1 / GRID = 1.000114224

VERTICAL DATUM = NAVD 88 <> HORIZONTAL DATUM = NAD 83

Local Project Plane Coordinate Conversion Equation :

a. Local Project Coord y =[(State Plane y - hold point y) 1/grid factor] + hold point y
b. Local Project Coord x =[(State Plane x - hold point x) 1/grid factor] + hold point x

Coordinates are metric units. Metric units were converted to US Survey feet units for project coordinates.

NOTE: GPS DERIVED HEIGHTS ARE NOT RELATIVE TO ADJUSTED PROJECT HEIGHTS.

Survey Information

Alignment Information

The horizontal alignment for this survey is a retrace of As-built Plans, Fed. Project #
2, Fed. Project # 2 (15). Fed. Project # 2(19), and Fed. Project # 2(11). Stationing was established at PI Sta. 226+64.5. Stationing was then backed westerly to the BOP and carried forward to the EOP. The followings PI's were set by the District 3 Office.

PI Sta.. 226+64.5 (Fed. Project # 2 (19))
PI Sta. 274+54.6 (Fed. Project # 2)
PI Sta. 390+20.4 (Fed. Project # 2)
PI Sta. 422+35.2 (Fed. Project # 2)
PI Sta. 491+85.9 (Fed. Project # 2)
PI Sta. 533+02.9 (Fed. Project # 2 (15))
PI Sta. 580+47.1 (Fed. Project # 2 (15))
PI Sta. 690+48.1 (Fed. Project # 2 (15))
PI Sta. 742+55.0 (Fed. Project # 2 (15))
PI Sta. 776+98.7 (Fed. Project # 2 (15))
PC Sta. 882+75.6 (Fed. Project # 2 (11))
PT Sta. 905+83.1 (Fed. Project # 2 (11))
PC Sta. 916+76.4 (Fed. Project # 2 (11))
PT Sta. 940+20.5 (Fed. Project # 2 (11))
PI Sta. 966+07.1 (Fed. Project # 2 (11))
PI Sta. 1003+59.8 (Fed. Project # 2 (11))
PI Sta. 1035+20.3 (Fed. Project # 2 (11))
PI Sta. 1045+51.7 (Fed. Project # 2 (11))
PI Sta. 1057+00.1 (Fed. Project # 2 (11))
PI Sta. 1148+65.5 (Fed. Project # 2 (11))

Equations are as follows:

PI Sta. 226+64.5This Survey
= PI Sta. 226+64.5 (Fed. Project # 2 (19))

PI Sta. 274+54.22 this survey
= PI Sta. 274+54.6 (Fed. Project # 2)

PI Sta. 390+21.71 this survey
= PI Sta. 390+20.4 (Fed. Project # 2)

PI Sta. 422+36.66 this survey
= PI Sta. 422+35.2 (Fed. Project # 2)

PI Sta. 491+88.23 this survey
= PI Sta. 491+85.9 (Fed. Project # 2)

PI Sta. 533+05.21 this survey
= PI Sta. 533+02.9 (Fed. Project # 2 (15))

PI Sta. 580+49.39 this survey
= PI Sta. 580+47.1 (Fed. Project # 2 (15))

PI Sta. 690+49.96 this survey
= PI Sta. 690+48.1 (Fed. Project # 2 (15))

PI Sta. 742+55.60 this survey
= PI Sta. 742+55.0 (Fed. Project # 2 (15))

PI Sta. 776+98.28 this survey
= PI Sta. 776+98.7 (Fed. Project # 2 (15))

PC Sta. 882+75.6
= PC Sta. 882+75.6 (Fed. Project # 2 (11))

PT Sta. 905+83.1
= PT Sta. 905+83.1 (Fed. Project # 2 (11))

PC Sta. 916+76.4
= PC Sta. 916+76.4 (Fed. Project # 2 (11))

PT Sta. 940+20.5
= PT Sta. 940+20.5 (Fed. Project # 2 (11))

PI Sta. 966+07.1
= PI Sta. 966+07.1 (Fed. Project # 2 (11))

PI Sta. 966+07.1
= PI Sta. 966+07.1 (Fed. Project # 2 (11))

PI Sta. 1003+59.8
= PI Sta. 1003+59.8 (Fed. Project # 2 (11))

PI Sta. 1035+20.3
= PI Sta. 1035+20.3 (Fed. Project # 2 (11))

PI Sta. 1045+51.7
= PI Sta. 1045+51.7 (Fed. Project # 2 (11))

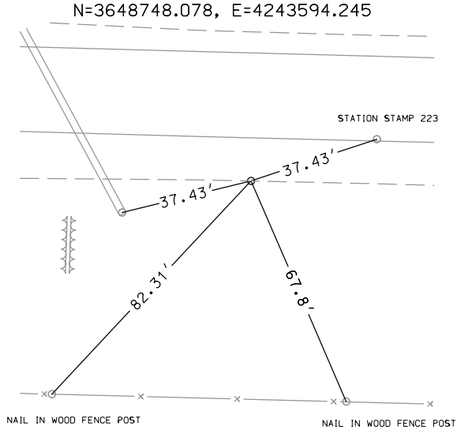
PI Sta. 1057+00.1
= PI Sta. 1057+00.1 (Fed. Project # 2 (11))

PI Sta. 1148+65.5
= PI Sta. 1148+65.5 (Fed. Project # 2 (11))

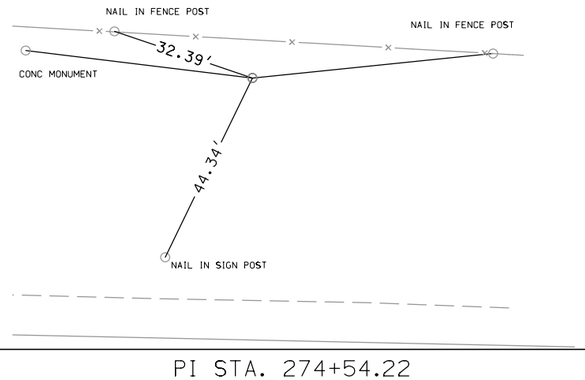
VERTICAL CONTROL

Point	North	East	Elevation	Station	Offset	Feature	Description
500	3649009.3000	4240254.5810	1313.8820	Off Chain	Off Chain	BM	RR SPK S.POWER POLE LT
502	3648755.5510	4242322.1660	1271.2150	Off Chain	Off Chain	BM	IDOT PLUG HDWL RT
501	3648789.1480	4241190.0650	1280.1090	Off Chain	Off Chain	BM	IDOT PLUG HDWL RT
503	3648914.8360	4243634.3370	1332.8520	223+00.13	-59.9577	BM	ROW RAIL LT
504	3648883.2210	4245013.3210	1373.3440	236+79.76	-59.7188	BM	ROW RAIL LT
505	3648880.5430	4245805.0580	1400.2300	244+71.37	-74.0490	BM	CONC MONUMENT LT
506	3648731.2790	4246646.6500	1370.3710	253+15.98	57.1020	BM	FOUND X TOP RCP RT
507	3648733.4210	4247128.4400	1371.4610	257+97.61	44.6109	BM	FOUND X TOP RCP RT
508	3648663.7420	4247678.9030	1383.2880	263+49.44	102.4491	BM	FOUND RR SPK PP S.E. QUAD US 20 & JASPER
509	3648820.6030	4248737.9440	1415.3650	274+04.79	-77.2590	BM	BM RR SPK IN TREE LT.
510	3648638.2260	4250255.7190	1373.3170	289+26.39	68.8551	BM	CONC MONUMENT RT
511	3648654.6470	4250929.7690	1336.7590	295+99.85	36.2427	BM	FOUND X TOP RCP RT
512	3648737.1910	4251745.6830	1292.4380	304+13.55	-65.8824	BM	IDOT PLUG TOP HDWL LT
513	3648689.7330	4252730.7820	1286.9890	313+99.50	-42.1082	BM	FOUND X TOP HDWL LT STATION
724	3648605.0630	4253886.1280	1291.8446	325+56.55	14.7765	BM	FD IDOT BM EAST END OF S. HANDRAIL BRIDGE
515	3648524.2280	4255037.0420	1304.4070	337+09.08	67.9338	BM	R/R SPK GATE POST RT STATIO
516	3648662.5780	4255837.2690	1337.4250	345+05.75	-89.6043	BM	ROW RAIL LT STATION 345+00
725	3648521.3700	4256358.8970	1328.4313	350+30.62	39.0292	BM	CUT X TOP INLET 36" RCP
518	3648513.2100	4257279.5820	1328.6880	359+51.23	25.0644	BM	IDOT PLUG TOP HDWL RT
519	3648553.4570	4257730.4600	1334.3510	364+01.01	-26.0047	BM	IDOT PLUG TOP HDWL RT
726	3648577.1540	4258616.6980	1358.6557	372+86.43	-70.9895	BM	SET RAILROAD SPIKE SOUTH SIDE OF POWER POLE
727	3648507.2140	4259890.8270	1393.6735	385+61.87	-31.6847	BM	CUT X TOP INLET 24" RCP
523	3648370.6890	4260321.6200	1411.5790	389+97.13	92.1795	BM	CONC MONUMENT RT
524	3648367.5480	4261120.4000	1393.2090	397+96.41	54.9383	BM	FOUND RR SPK PP RT
525	3648431.4120	4261561.5830	1386.8150	402+33.47	-32.7952	BM	FOUND X TOP RCP
526	3648291.4180	4262723.9550	1359.6720	414+01.73	43.8557	BM	FOUND X TOP HDWL RT
728	3648163.5100	4263631.2360	1400.7000	423+12.77	125.5175	BM	CONC MONUMENT
527	3648487.3060	4263740.5120	1383.5180	424+09.87	-202.1719	BM	RR SPK PP LT
528	3648211.7220	4264854.4270	1358.8100	435+32.77	39.5503	BM	FOUND IDOT PLUG HDWL RT
529	3648248.7770	4266324.6580	1369.4260	450+01.25	-41.2764	BM	FOUND X TOP RCP LT
530	3648237.0710	4266883.7500	1372.9240	455+60.44	-46.2272	BM	IDOT PLUG TOP HDWL LT
531	3648073.7670	4267862.8910	1418.1730	465+44.01	87.8425	BM	G017 FOUND CONC MONUMENT RT
31849	3648061.2420	4269221.1900	1426.7945	479+02.08	59.9074	BM	RIGHT OF WAY RAIL RT
533	3648061.2630	4269221.2070	1426.7920	479+02.10	59.8859	BM	RIGHT OF WAY RAIL RT
534	3648007.8620	4270392.1980	1452.0670	490+73.86	78.7428	BM	FOUND RR SPK TREE STUMP RT
535	3648143.4060	4271456.8250	1434.5310	501+35.29	-77.1074	BM	CONC MONUMENT LT
536	3647976.8420	4272328.3530	1389.6660	510+09.59	74.2412	BM	FOUND RR SPK TREE STUMP
537	3647959.2670	4273008.0800	1359.2720	516+89.52	79.9664	BM	FOUND RIGHT OF WAY RAIL RT
538	3648073.5050	4273952.2250	1334.2850	526+31.53	-50.7100	BM	FOUND IDOT PLUG HDWL LT
729	3647921.0320	4274303.8370	1345.7290	529+85.75	95.6115	BM	SET RR SPK NE SIDE FENCE POST
540	3648044.8550	4275253.4990	1332.9800	539+32.04	-57.5810	BM	FOUND IDOT PLUG HDWL LT
730	3648070.4830	4275952.7200	1351.1465	546+29.79	-109.6778	BM	CONC MONUMENT
541	3647890.7560	4276420.9830	1343.6100	551+04.52	52.1819	BM	FOUND IDOT PLUG LT
731	3647841.2870	4276963.5000	1345.6242	556+48.53	81.0643	BM	CUT X BALL OF ROW RAIL
542	3647957.5900	4277579.0580	1333.8260	562+59.24	-58.4731	BM	FOUND X TOP HDWL LT
543	3647942.0310	4278633.9140	1389.3540	573+13.92	-82.8843	BM	FOUND RR SPK TREE STUMP
544	3647749.7800	4279936.4710	1404.1570	586+22.70	61.1136	BM	FOUND X TOP HDWL RT
545	3647867.4070	4280820.4180	1391.2080	595+01.88	-88.0327	BM	FOUND IDOT PLUG TOP HDWL LT
546	3647858.1930	4281262.6990	1389.6990	599+44.21	-94.6328	BM	FOUND IDOT PLUG TOP HDWL LT
547	3647710.5670	4281647.2850	1413.5960	603+33.82	39.1528	BM	FOUND X TOP HDWL RT
548	3647861.9560	4282319.3190	1443.0250	610+00.02	-136.1597	BM	CONC MONUMENT LT
549	3647615.3070	4284311.1180	1342.6810	629+99.36	39.1399	BM	FOUND IDOT PLUG HDWL RT
732	3647489.0570	4285028.9320	1337.0885	637+21.23	139.6527	BM	CONC MONUMENT
551	3647542.5230	4285710.5800	1305.7910	644+00.53	61.8571	BM	FOUND X TOP HDWL RT
552	3647525.0920	4287073.4860	1281.8150	657+63.19	30.5633	BM	FOUND IDOT PLUG TOP HDWL RT
553	3647566.3470	4288554.1920	1261.8150	672+41.47	-63.5894	BM	FOUND IDOT PLUG TOP HDWL LT
733	3647509.6640	4289486.4470	1294.9273	681+75.16	-40.2638	BM	CUT X TOP INLET 36" RCP
555	3647342.2790	4290406.0520	1328.0260	690+98.32	98.2926	BM	CONC MONUMENT RT
734	3647465.5870	4290866.7390	1304.5864	695+57.32	-28.4452	BM	CUT X NORTH BOLT STEEL CABLE GUARDRAIL BRACE PLATE
556	3647539.1710	4291406.1710	1260.9950	700+96.60	-103.1093	BM	FOUND IDOT PLUG TOP HDW LT
557	3647378.7120	4292288.3230	1302.8390	709+79.07	55.5827	BM	FOUND RR SPK TREE RT
558	3647393.0030	4293236.2150	1313.2060	719+26.93	39.3935	BM	FOUND X OUTLET HDWL RCP
559	3647511.4430	4294219.8770	1310.0700	729+10.36	-81.0162	BM	FOUND IDOT PLUG HDWL LT
560	3647358.9930	4295638.5790	1348.2130	743+30.21	66.2174	BM	FOUND RR SPK PP RT
561	3647316.2860	4296329.4540	1308.8560	750+22.38	94.3288	BM	FOUND X TOP HDWL RT
562	3647342.4540	4297247.8480	1316.6020	759+39.96	47.6365	BM	FOUND IDOT PLUG HDWL RT
563	3647317.5760	4297651.5360	1306.3980	763+44.10	63.4838	BM	FOUND IDOT PLUG HDWL RT
735	3647327.7700	4298256.7310	1310.9900	769+48.92	39.7632	BM	IHC BUTTON ON UMBRELLA INTA
564	3647294.2400	4298892.3400	1309.6960	775+85.46	58.4800	BM	RR SPK TREE RT
736	3647292.7940	4299613.4600	1264.9500	783+06.78	33.2427	BM	CUT X TOP INLET 30" RCP
565	3647387.9310	4300305.1910	1238.0450	789+94.07	-89.9636	BM	FOUND RR SPK TREE LT
737	3647247.8740	4300912.2140	1186.8380	796+06.29	25.2762	BM	CUT X ON STEEL CABLE GUARDR
567	3647224.5660	4302472.8730	1133.4820	811+66.60	-14.9419	BM	FOUND IDOT PLUG TOP N.W. RAIL LT
739	3647254.3480	4303398.6770	1119.6170	820+90.43	-82.3723	BM	739 SET RR SPK S P.POLE
742	3644474.0620	4303373.8510	1117.0750	821+78.76	2696.6211	BM	742 RR SPK W P.POLE
741	3645829.8300	4303432.4730	1117.5370	821+82.16	1339.5906	BM	741 RR SPIKE W SIDE PP STA
569	3647021.6670	4304734.0980	1127.6590	834+34.21	95.7747	BM	NOT FOUND RR SPK PP SW QUAD
570	3646995.8970	4306062.6190	1138.1930	847+62.68	67.4628	BM	FOUND RR SPK PP S.W. QUAD U
998	3643801.6430	4307026.8850	1143.2560	858+56.13	3219.8329	CP	GPS CONTROL PT
571	3646947.8780	4307437.8450	1131.1560	861+38.72	59.4809	BM	571 RR SPK N P.POLE
573	3646949.8700	4309451.7170	1199.7020	881+50.85	-24.4585	BM	573 IDOT DISC RCB LT.
576	3645500.1330	4312041.7170	1243.6950	912+14.91	-25.9809	BM	576 IDOT DISC RCB LT
577	3644694.6490	4312744.1960	1225.1030	922+78.34	46.7089	BM	577 FD D.O.T BUTTON OUTLET
740	3644231.1450	4312846.7550	1227.4960	925+94.78	378.7473	BM	740 SET R.R. SPIKE IN NORTH
578	3644315.7590	4313851.9420	1240.3160	934+56.82	-72.5628	BM	578 RR SPIKE S P.POLE
579	3644237.0810	4315038.0730	1242.7730	946+62.41	-80.2605	BM	579 RR SPK S P.POLE
580	3644182.4990	4316036.8730	1200.6440	956+62.34	-53.3316	BM	580 CUT X ON RCB LT
581	3644201.4600	4317270.4840	1248.6520	968+95.56	-104.7032	BM	581 RR SPIKE PP LT
582	3644151.9410	4318545.1390	1218.3470	981+70.99	-83.1254	BM	582 RR SPIKE PP LT
583	3644142.4450	4319766.8010	1232.7930	993+92.57	-100.4004	BM	583 RR SPIKE PP LT
584	3644073.7260	4321069.2390	1254.4960	1006+95.22	-65.4316	BM	584 RR SPIKE PP LT
598	3643438.8400	4336239.7740	1351.4640	1158+77.29	86.2737	BM	CONC MONUMENT

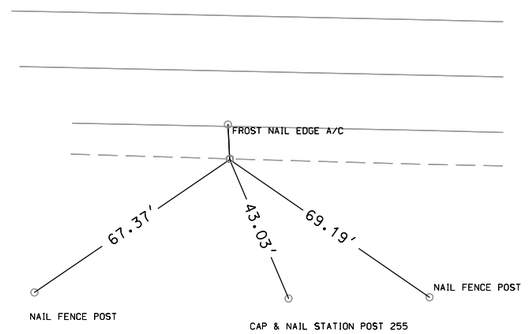
CP STA. 222+64.43, 107.80 RT.
CP No. 102, FOUND 5/8 REBAR
N=3648748.078, E=4243594.245



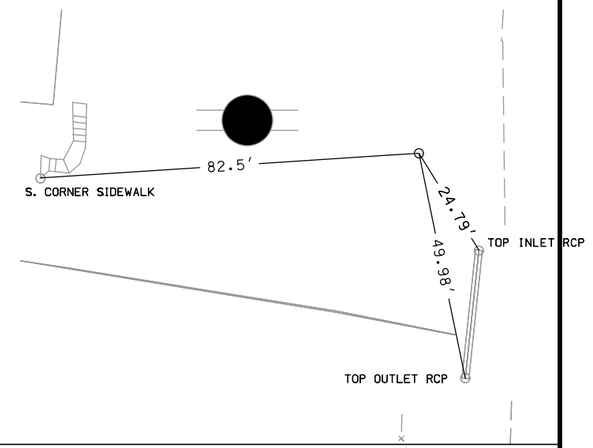
CP STA. 244+71.37, 74.05 LT.
CP No. 11 Conc Monument
N=3648880.543, E=4245805.058



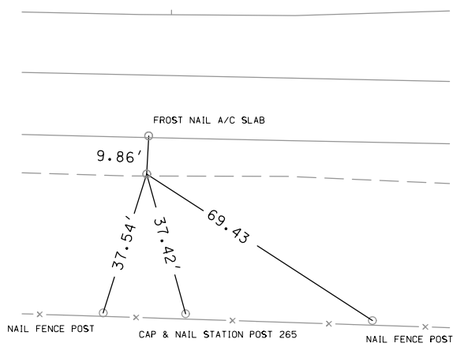
CP STA. 254+81.60, 25.04 Rt.
CP No. 104 Found Rebar
N=3648759.776, E=4246812.925



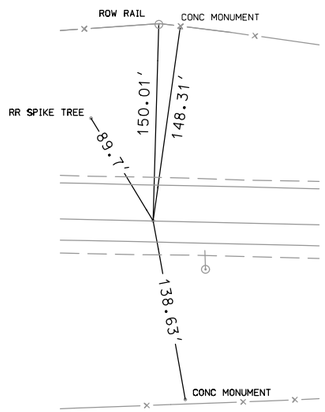
CP STA. 262+61.0, 1341.85 Rt.
CP No. 997 Found Disk
N=3647426.521, E=4247564.15



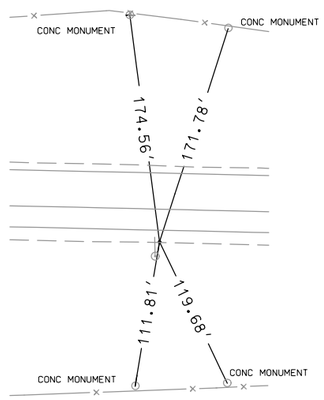
CP STA. 264+89.96, 25.53 Rt.
CP 105, Found 5/8 Rebar
N=3648737.623, E=4247821.041



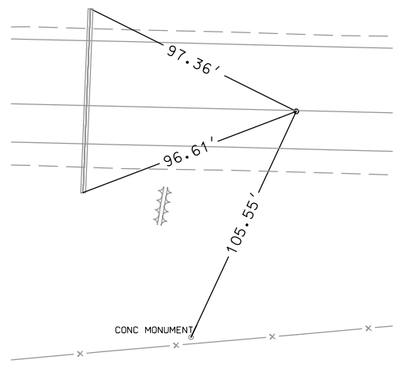
PI STA. 274+54.22
PI 413, Found PK Nail
N=3648742.4349, E=4248785.6266



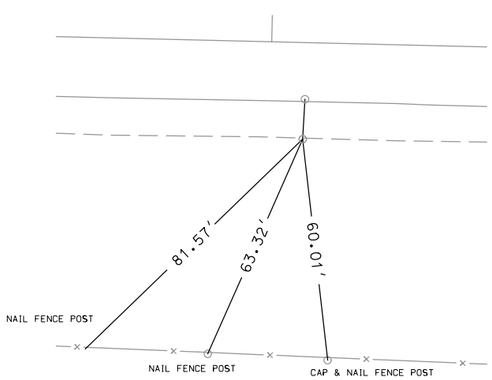
CP STA.274+98.03, 25.01 Rt.
CP 12 Found 5/8 Rebar
N=3648716.2360, E=4248828.8450



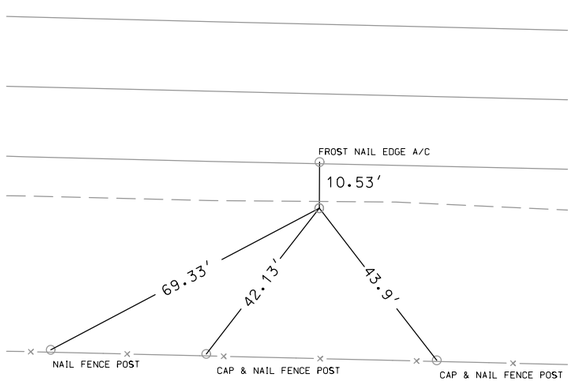
CP STA.279+99.82, 0.35 Rt.
CP 403 Found Hinge Nail
N=3648728.9800, E= 4249331.0580



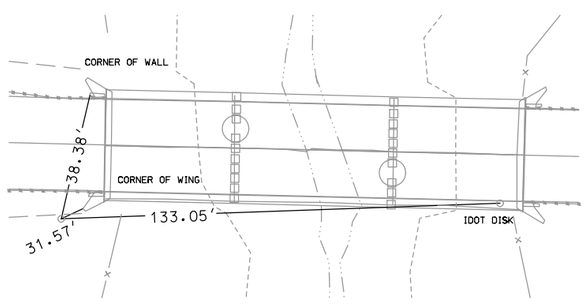
CP STA.298+09.00, 26.06 Rt.
CP 107 Found 5/8 Rebar
N=3648659.8010, E= 4251139.0960



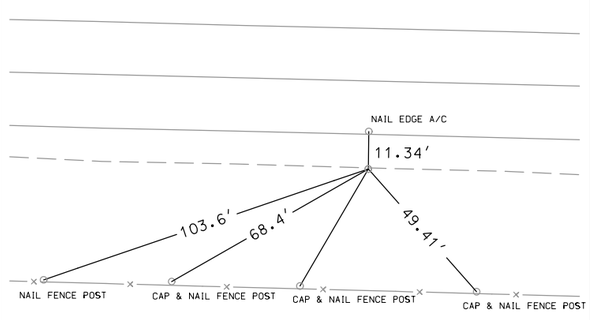
CP STA.311+15.83, 26.09 Rt.
CP 108 Found 5/8 Rebar
N=3648628.3670, E=4252445.5520



CP STA.324+23.74, 22.70 Rt.
CP 13 Found 5/8 Rebar
N=3648600.3370, E=4253753.1660

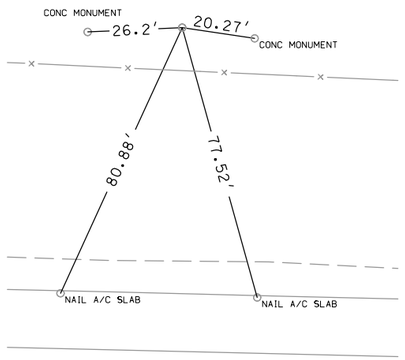


CP STA.334+65.85, 26.59 Rt.
CP 109 Found 5/8 Rebar
N=3648571.4010, E=4254794.8840



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER G.4

CP STA.345+05.75, 89.60 Lt.
CP 14 Found Right Of Way Rail
N=3648662.5780, E= 4255837.2690



CP STA.356+33.49, 25.61 Rt.
CP 110 Found 5/8 Rebar
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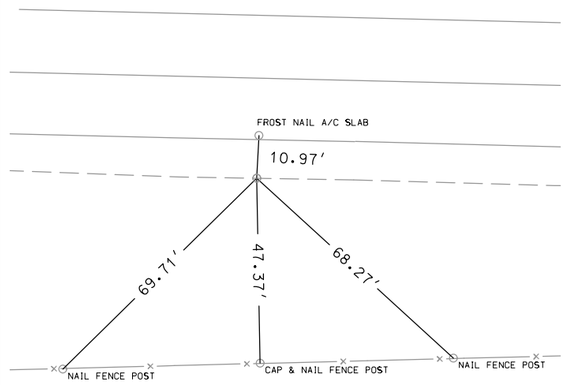

CP STA.367+56.46, 33.28 Rt.
CP 111 Found 5/8 Rebar
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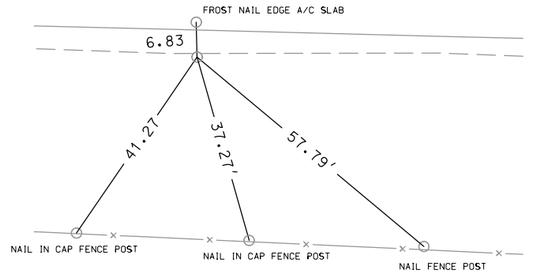

CP STA.378+79.17, 33.02 Rt.
CP 112 Found 5/8 Rebar
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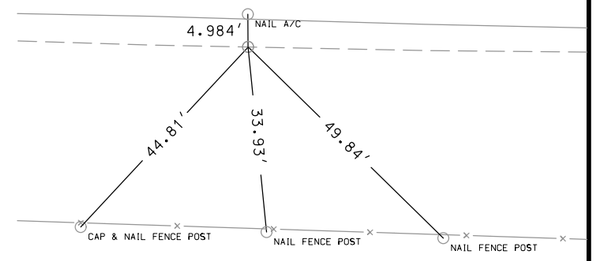
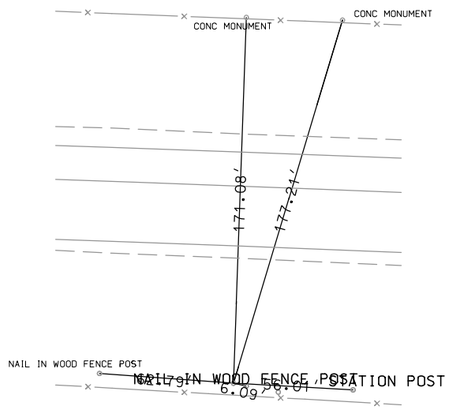
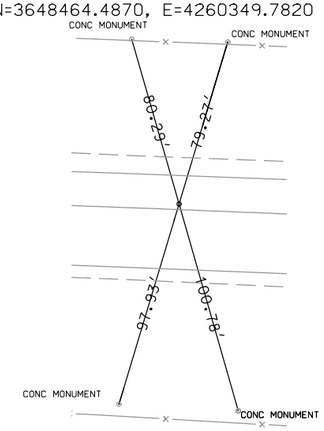


CP STA.389+97.13, 92.18 Rt.
CP 15 Found 5/8 Rebar
N=3648370.6890, E=4260321.6200

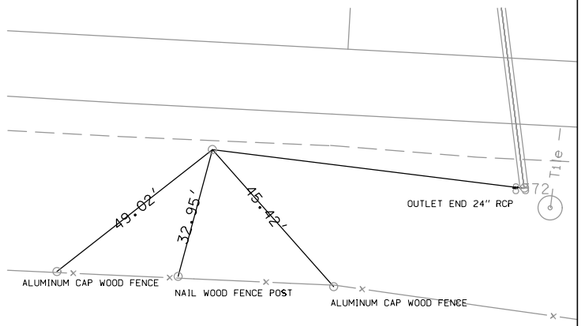


STATION POST 390

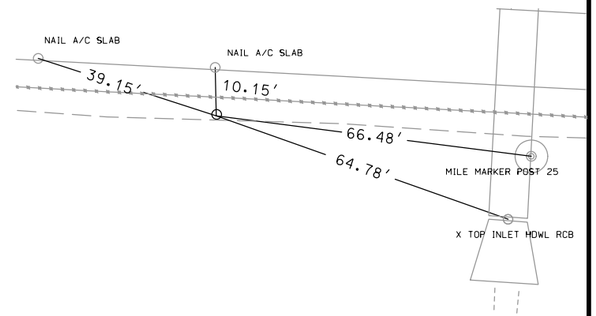
PI STA. 390+21.72
PI 404 Found PK Nail
N=3648464.4870, E=4260349.7820



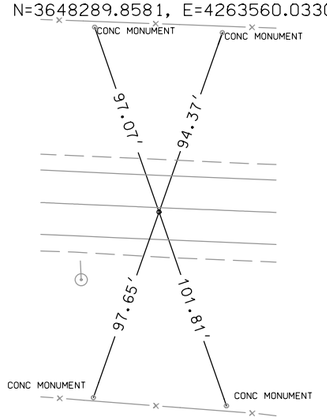
CP STA. 401+67.75 26.68 Rt.
CP 414 Found 5/8 Rebar
N=3648375.5989, E=4261492.7266



CP STA. 413+39.58, 25.58 Rt.
CP 415 Found 5/8 Rebar
N=3648313.0436, E=4262662.8897



PI STA. 422+36.66
PI 405 Not Set
N=3648289.8581, E=4263560.0330



CP STA. 425+10.61, 55.15 Lt.
CP 16 Found 5/8 Rebar
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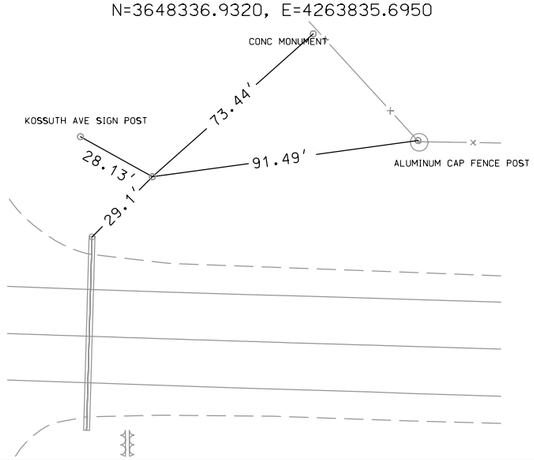

CP STA. 435+18.11, 26.71 Rt.
CP 417 Found 5/8 Rebar
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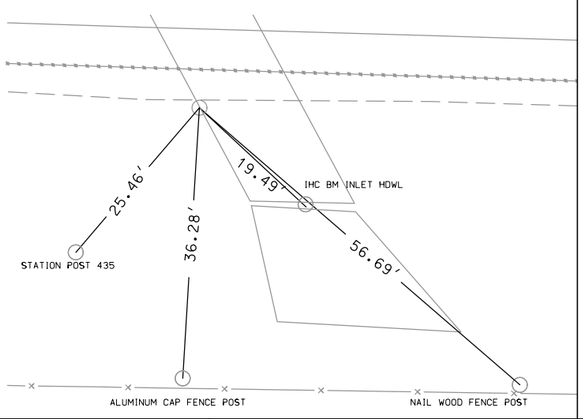

CP STA. 445+24.37, 27.28 Rt.
CP 418 Found 5/8 Rebar
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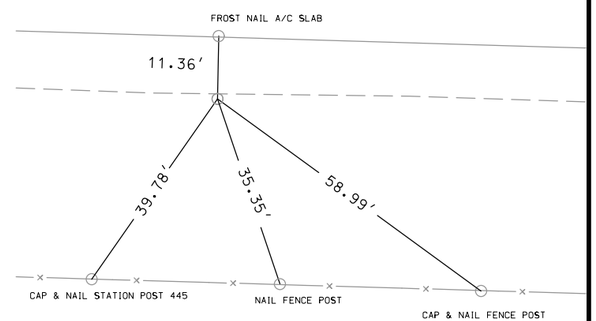

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER G.5

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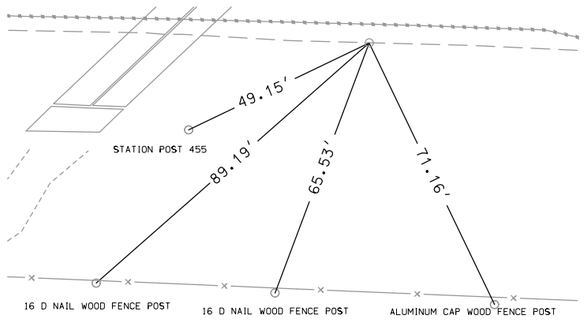
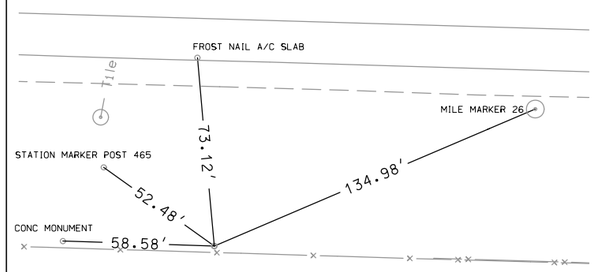
CP STA. 455+38.26, 26.61 Rt.
CP 419 Found 5/8 Rebar
N=3648164.9292, E=4266859.4135



CP STA. 465+44.01, 87.84 Rt.
CP 17 Found Conc Monument
N=3648073.7670, E=4267862.8910



CP STA. 478+01.69, 29.65 Rt.
CP 118 Found 5/8 Rebar
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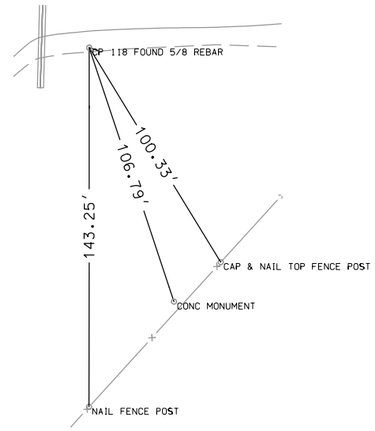

CP STA. 489+99.50, 29.50 Lt.
CP 18 Found 5/8 Rebar
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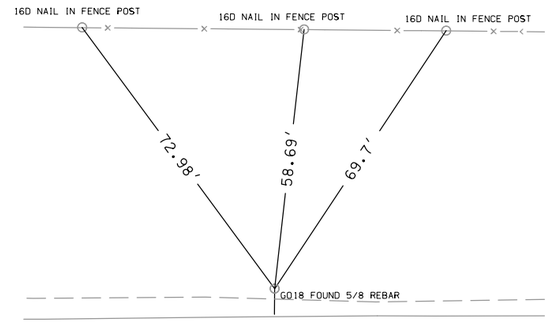

PI STA. 491+88.24
PI 406 Found PK Nail
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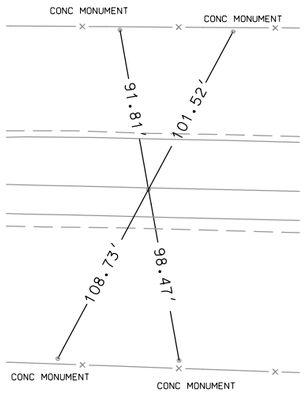

CP STA. 501+35.29, 77.107 Lt.
CP 19 Found Conc Monument
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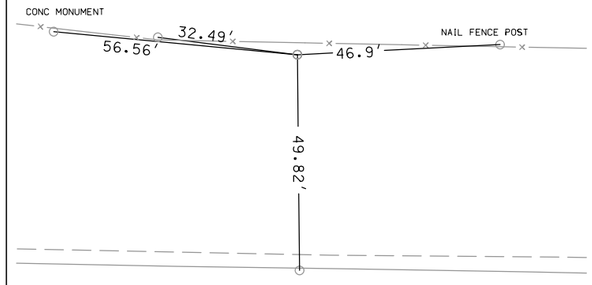

CP STA. 510+54.03, 26.39 Rt.
CP 119 Found 5/8 Rebar
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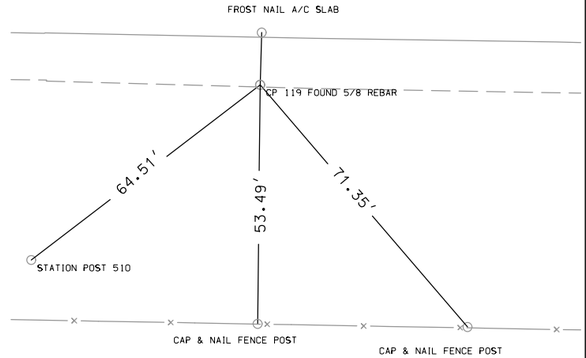

CP STA. 519+78.03, 26.20 Rt.
CP 120 Found 5/8 Rebar
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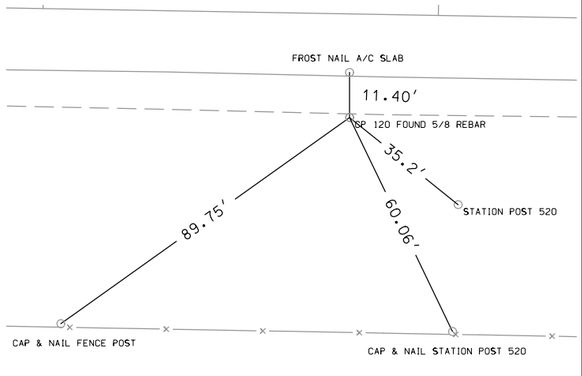

CP STA. 529+01.00, 25.70 Rt.
CP 20 Found 5/8 Rebar
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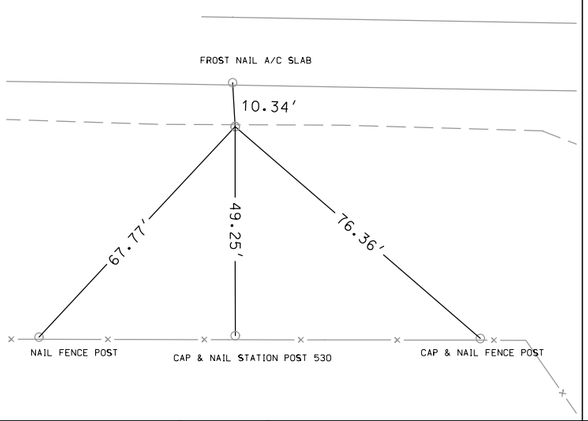

PI STA. 533+05.21
CP 407 Found PK Nail
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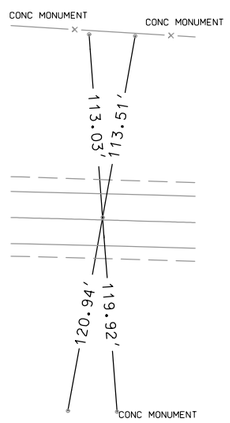

CP STA. 542+06.59, 25.95 Rt.
CP 121 Found 5/8 Rebar
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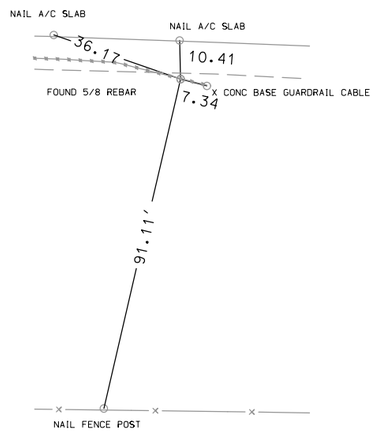
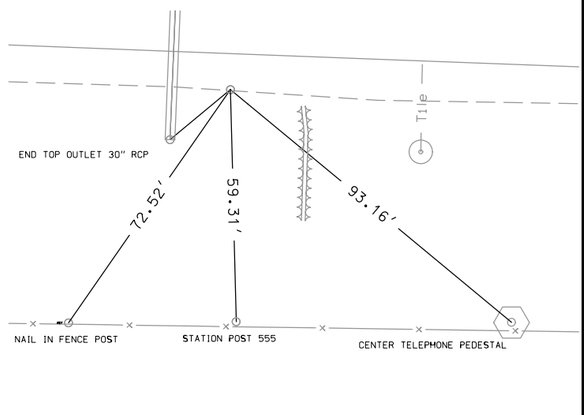


CP STA. 554+93.44, 24.93 Rt.
CP 21 Found 5/8 Rebar
N=3647903.2520, E=4276810.6490



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER G.6

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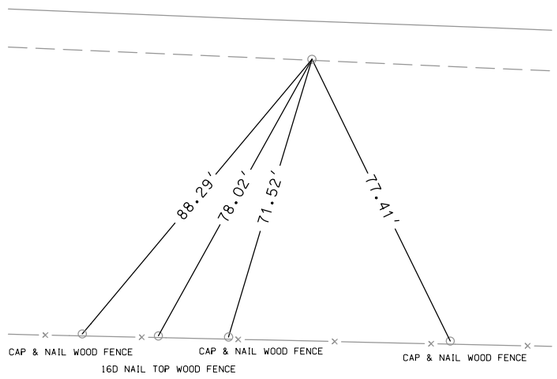
CP STA. 567+47.99, 25.35 Rt.
CP 122 Found 5/8 Rebar
N=3647855.3120, E=4278064.2880



CP STA. 580+03.76, 24.36 Lt.
CP 22 Found 5/8 Rebar
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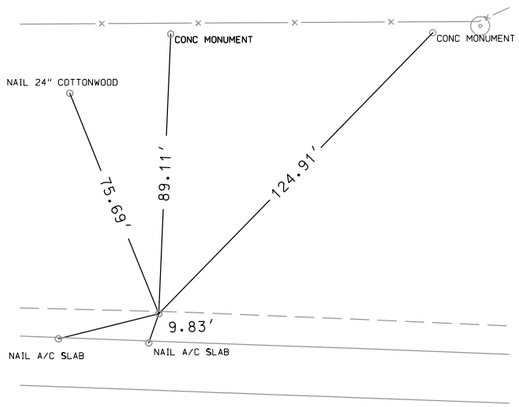

PI STA. 580+49.39.
CP 408 Found PK Nail
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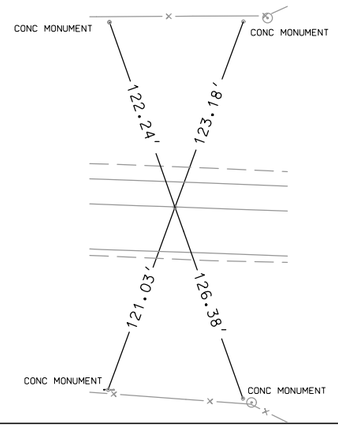

CP STA. 590+07.19, 25.75 Rt.
CP 123 Found Rebar
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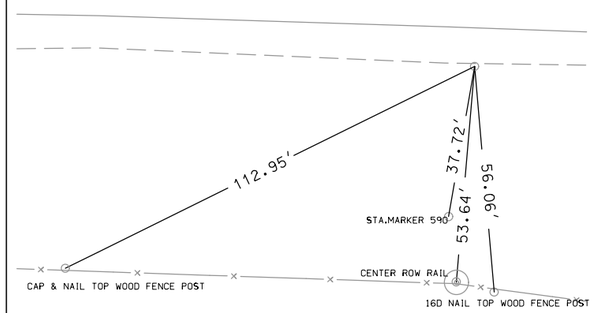

CP STA. 600+02.92, 25.49 Rt.
CP 124 Found Rebar
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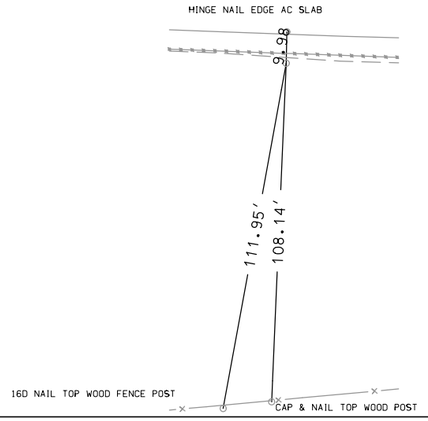

CP STA. 610+00.02, 136.159 Lt.
CP 23 Found Conc Monument
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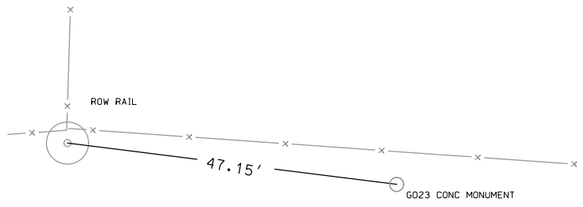

CP STA. 614+45.82, 25.15 Rt.
CP 125 Found Rebar
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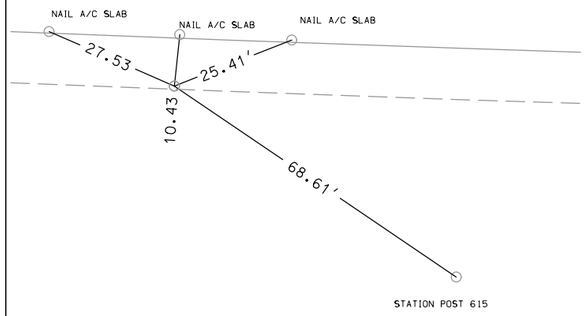
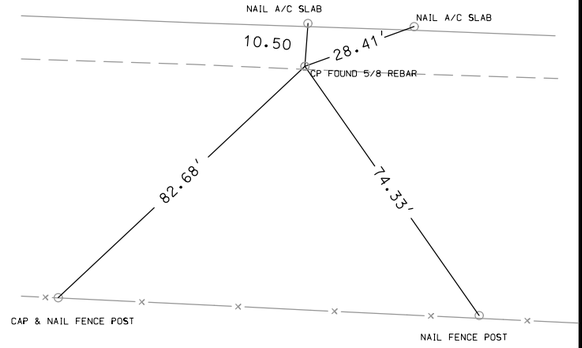


CP STA. 623+33.61, 25.22 Rt.
CP 126 Found Rebar
N=3647653.0180, E=4283646.2910



CP STA. 636+44.25, 26.84 Rt.
CP 24 Found Rebar
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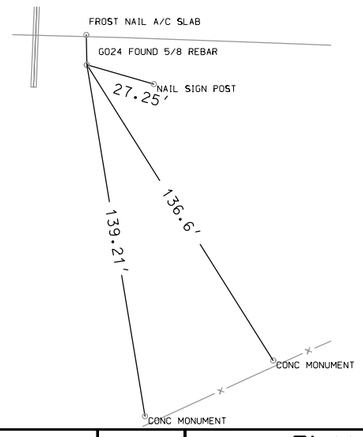
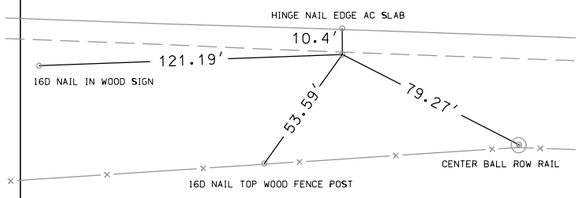
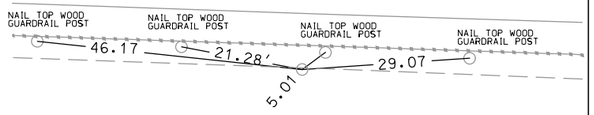


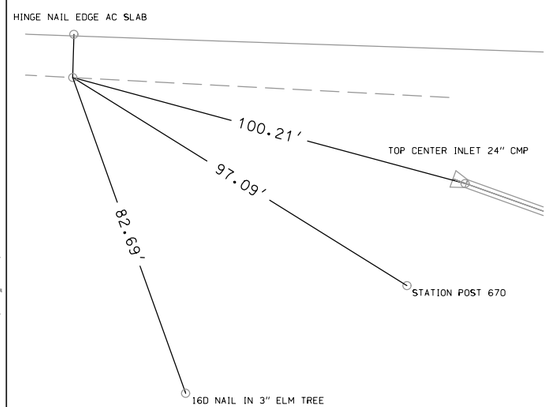
CP STA. 647+32.34, 25.50 Rt.
CP 127 Found Rebar
N=3647566.9980, E=4286043.4790



CP STA. 658+22.76 , 25.30 Rt.
CP 128 Found Rebar
N=3647528.2180, E=4287133.2130

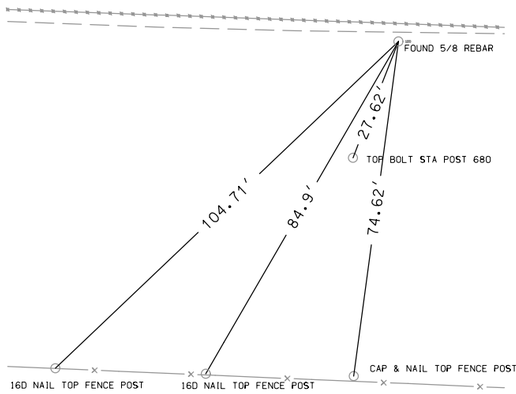


CP STA. 669+14.08, 25.81 Rt.
CP 129 Found Rebar
N=3647488.7090, E=4288223.8160

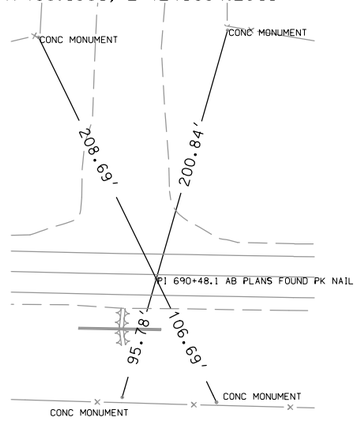


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER G.7

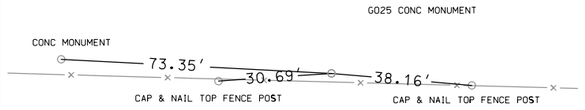
CP STA. 680+08.48, 25.78 Rt.
CP 130 Found Rebar
N=3647449.6210, E=4289317.5170



PI STA. 690+49.97
CP 409 Found PK Nail
N=3647438.1580, E=4290359.2610



CP STA. 690+98.32, 98.29 Rt.
CP 25 Found Conc Monument
N=3647342.2790, E=4290406.0520



CP STA. 699+04.74, 24.26 Rt.
CP 131 Found Rebar
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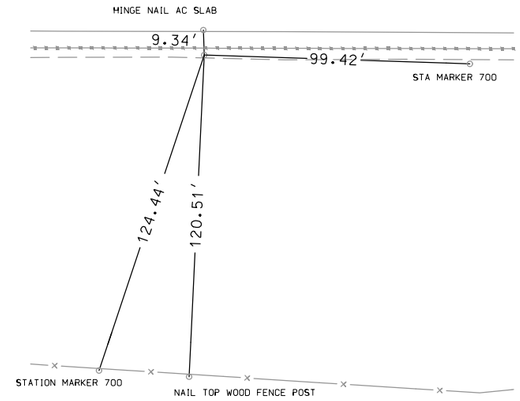
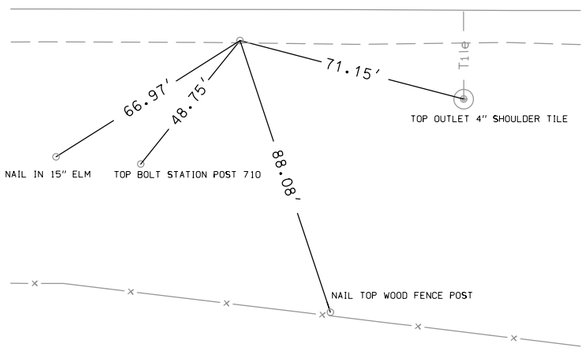
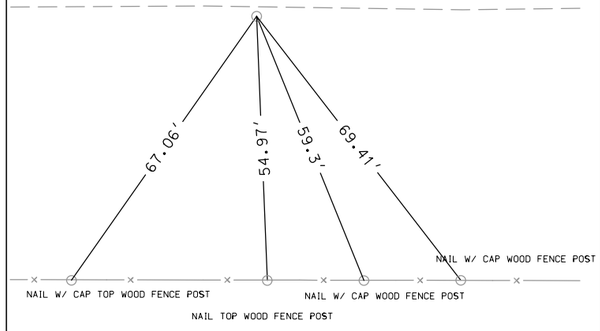


CP STA. 710+33.68, 25.17 Rt.
CP 132 Found Rebar
N=3647409.0200, E=4292342.9890



CP STA. 721+57.98, 25.02 Rt.
CP 133 Found Rebar
N=3647406.9090, E= 4293467.2900



CP STA. 732+80.34, 24.20 Rt.
CP 134 Found Rebar
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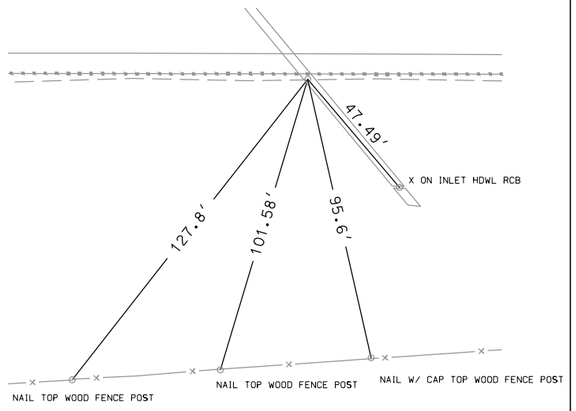

PI STA. 742+55.60
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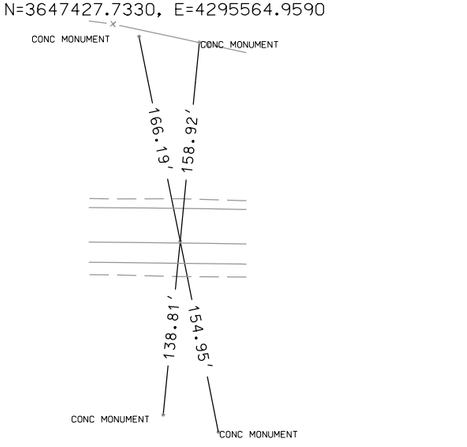

CP STA. 5744+08.08, 25.52 Rt.
CP 26 Found Conc Monument
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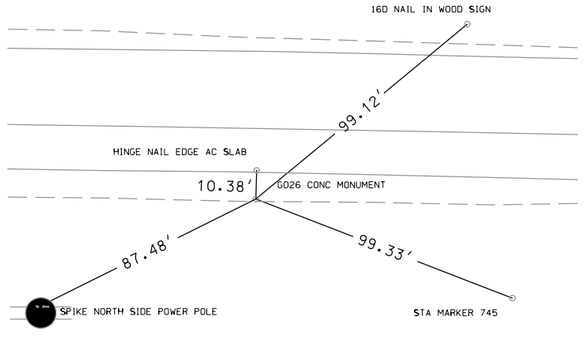

CP STA. 753+53.41, 26.29 Rt.
CP 135 Found Rebar
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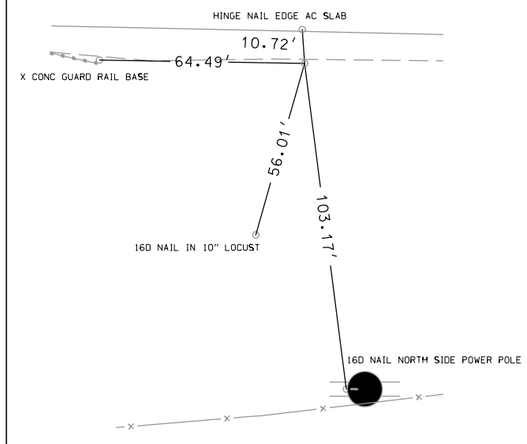

CP STA. 765+55.95, 30.79 Lt.
CP 27, Fd Rebar
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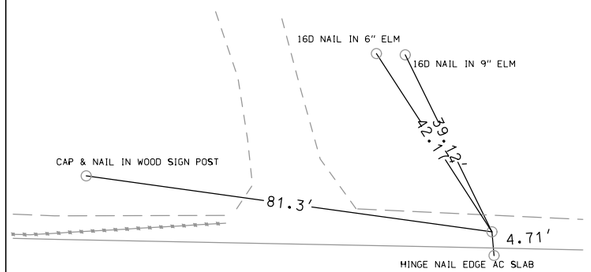

CP STA. 775+05.00, 30.97 Lt.
CP 28, Fd Rebar
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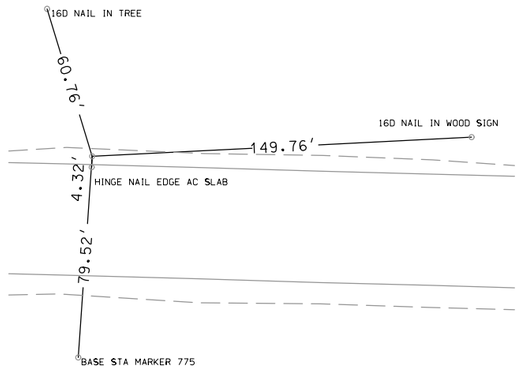

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER G.8

3:45:24 PM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077G.sht

CP STA. 776+98.28
PI 411, Fd PK Nail
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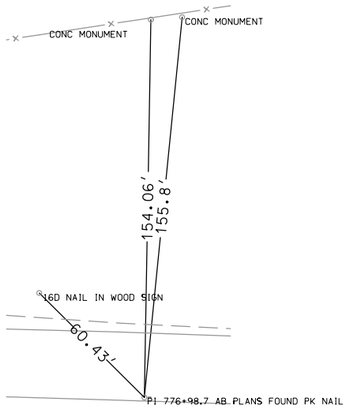

CP STA. 785+24.88, 26.29 Rt.
CP 136, Fd Rebar
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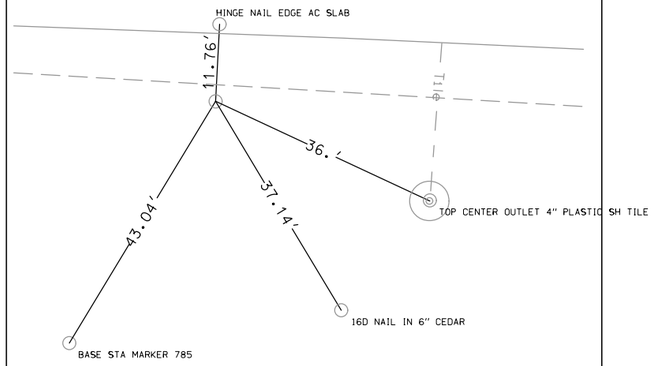

CP STA. 798+36.34, 25.73 Rt.
CP 137, Fd Rebar
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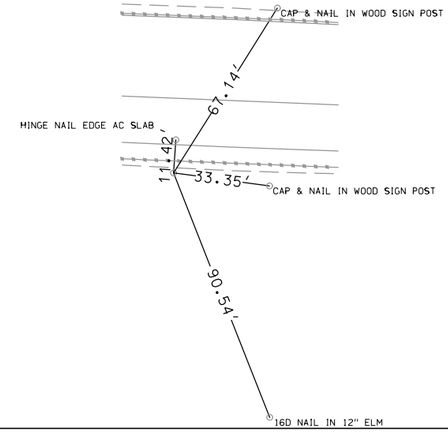

CP STA. 811+50.52, 19.14 Lt.
CP 29, Fd Rebar
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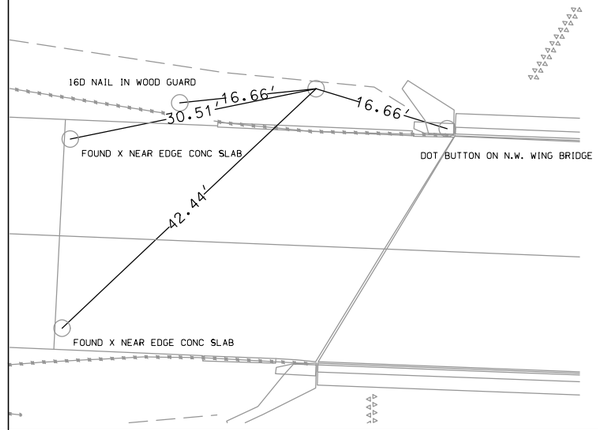

CP STA. 837+11.41, 25.73 Rt.
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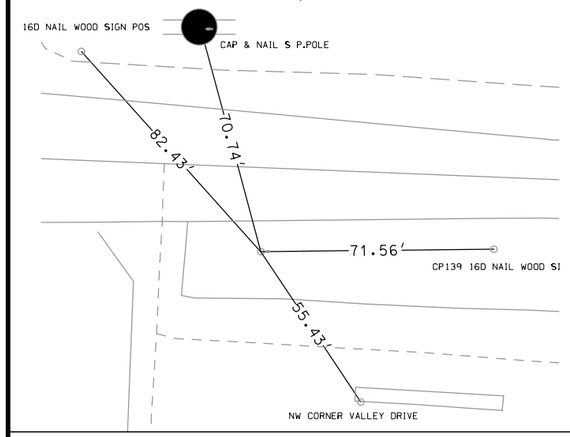

CP STA. 850+20.40, 27.43 Rt.
CP 140, Fd Rebar
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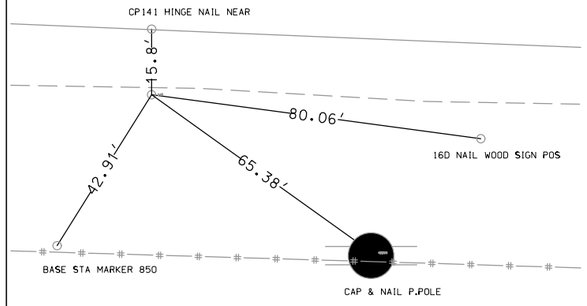

CP STA. 863+32.67, 27.68 Rt.
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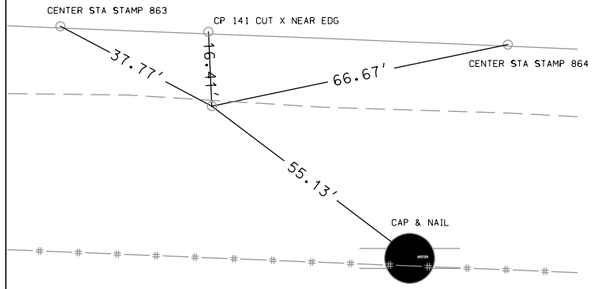

CP STA. 870+17.72, 1341.24 Lt.
CP 31, Fd Rebar
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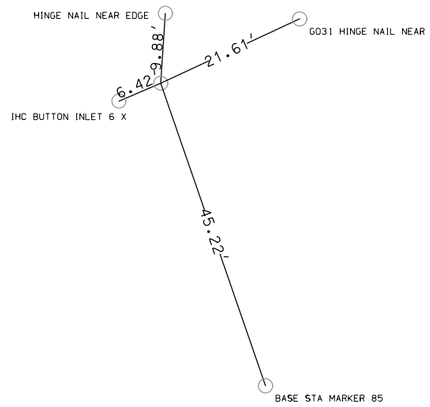

CP STA. 882+73.71
PC 420, Fd X
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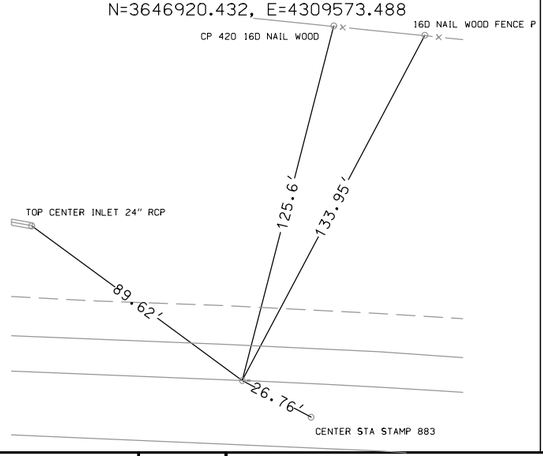

CP STA. 883+87.38, 33.64 Rt.
CP 143, Fd Rebar
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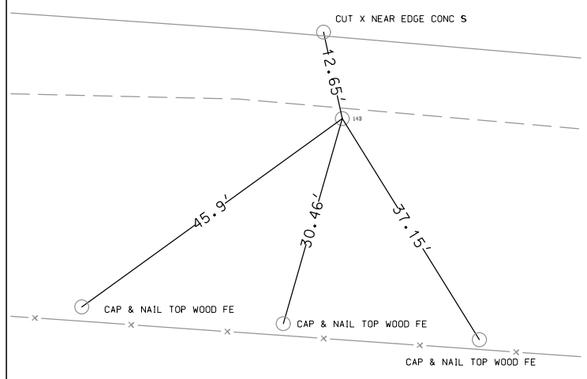

CP STA. 893+99.13, 118.30 Lt.
CP 32, Fd Rebar
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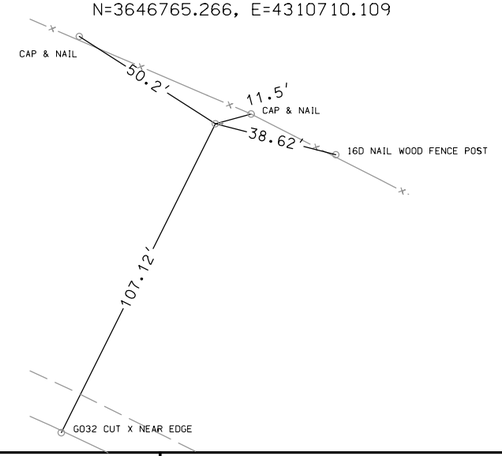

CP STA. 905+81.86
PT 421, Fd X
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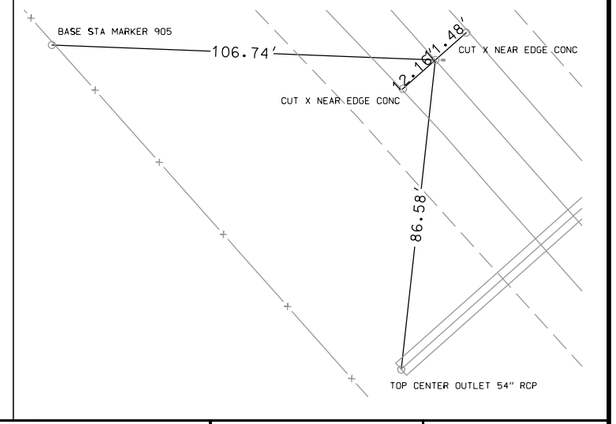

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER G.9

3:45:24 PM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\970200776.sht

CP STA. 916+75.07
PC 422, Fd X
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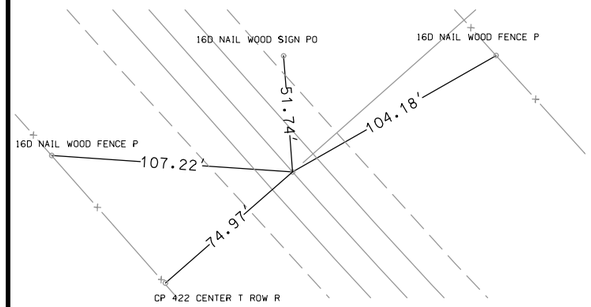

CP STA. 918+89.16, 95.84 Lt.
CP 33, Fd Rebar
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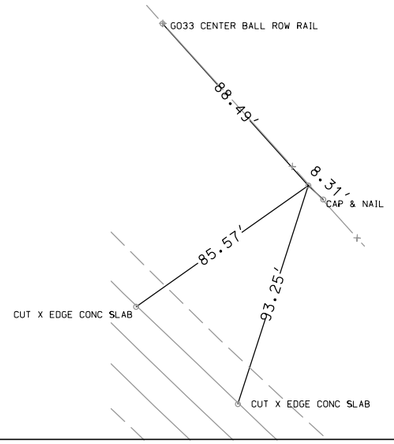

CP STA. 928+10.07, 35.09 Rt.
CP 34, Fd Rebar
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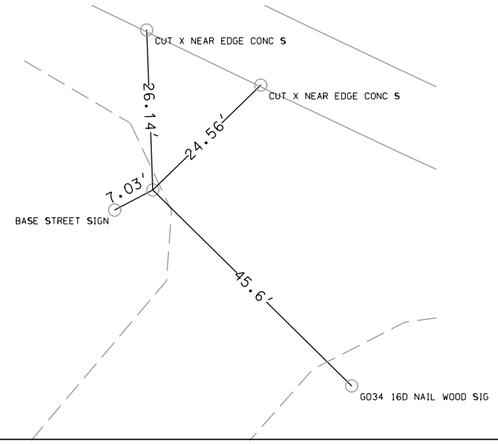

CP STA. 939+22.66, 25.69 Lt.
CP 35, Fd Rebar
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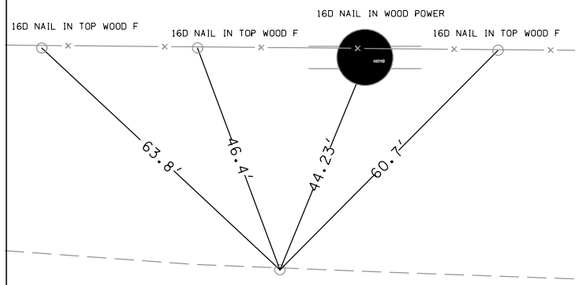

CP STA. 940+17.89
PT 423, Fd X
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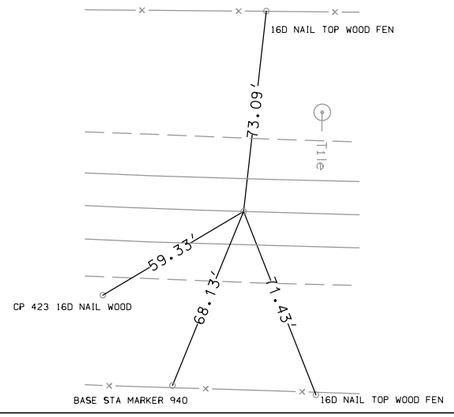

CP STA. 949+14.30, 28.33 Rt.
CP 145, Fd Rebar
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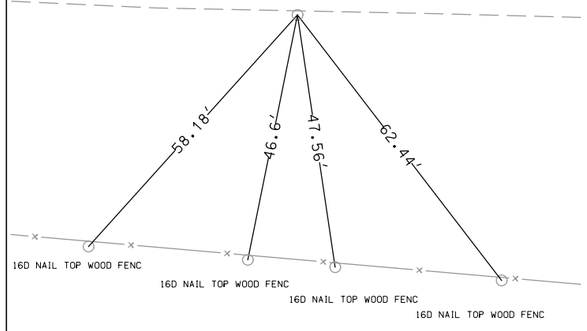

CP STA. 959+95.37, 27.90 Rt.
CP 146, Fd Rebar
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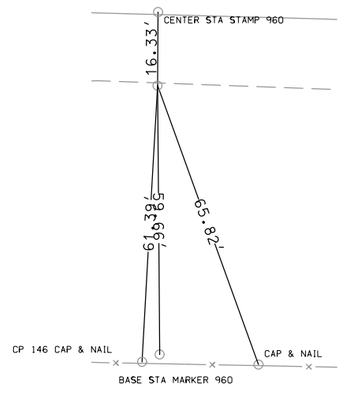

CP STA. 968+94.62 26.51 Rt.
CP 36, Fd Rebar
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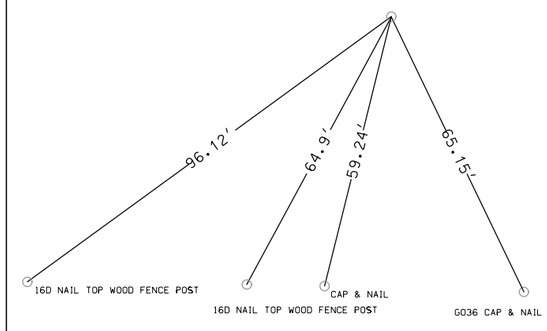

CP STA. 981+62.02, 26.81 Rt.
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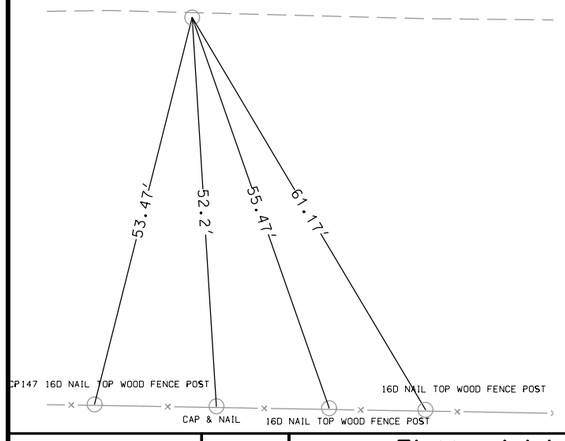

CP STA. 7994+31.06, 26.12 Rt.
CP 148, Fd Rebar
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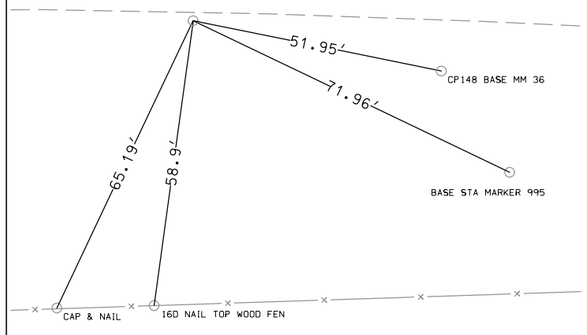

CP STA. 1003+56.18
PI 426, Fd PK Nail
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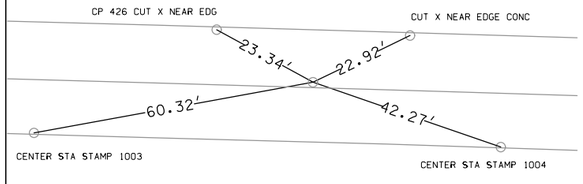

CP STA. 1006+97.22, 25.40 Lt.
CP 37, Fd Rebar
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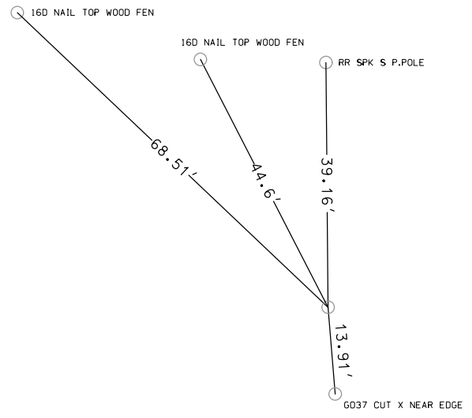

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER G.10

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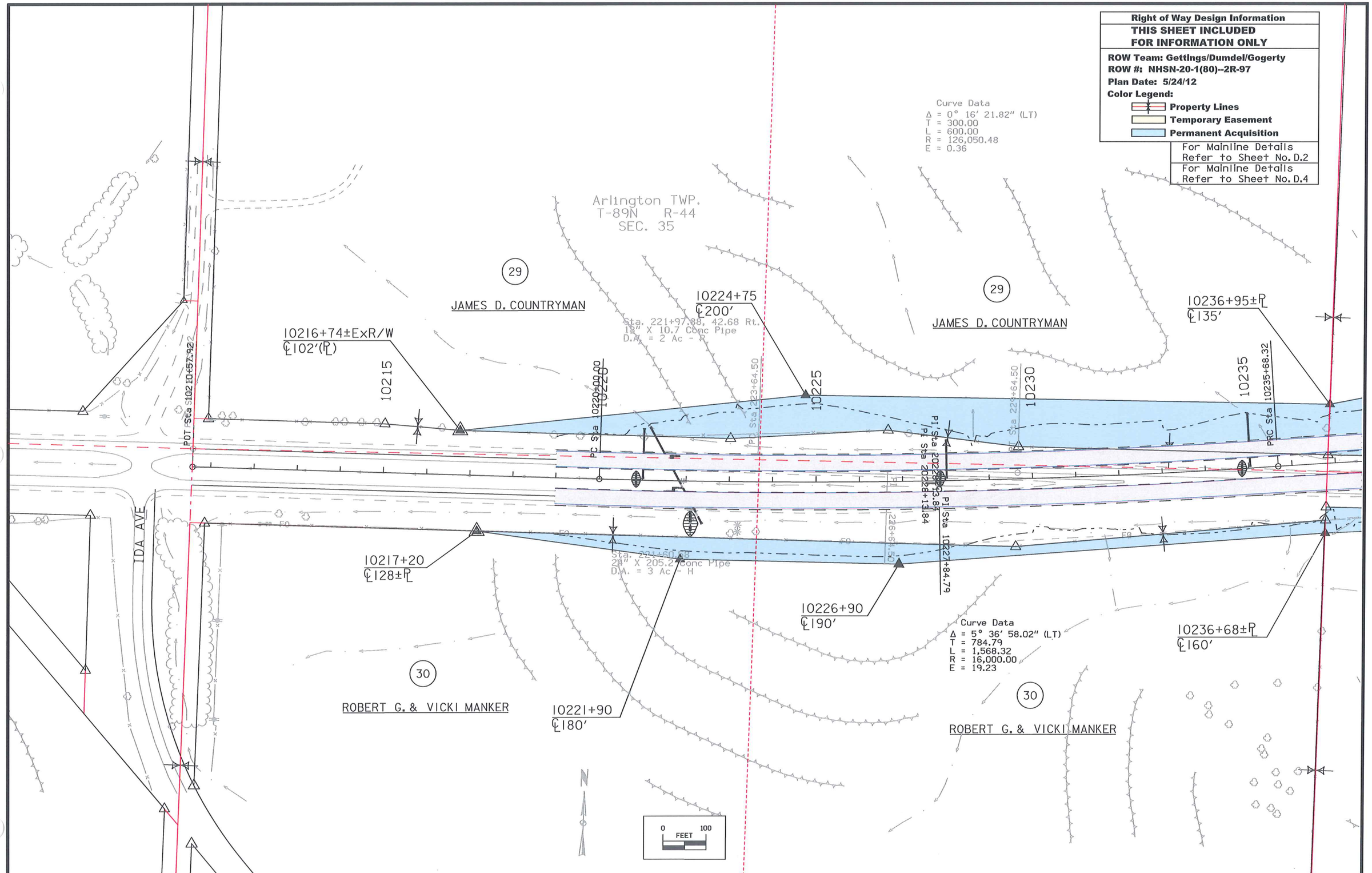

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.1

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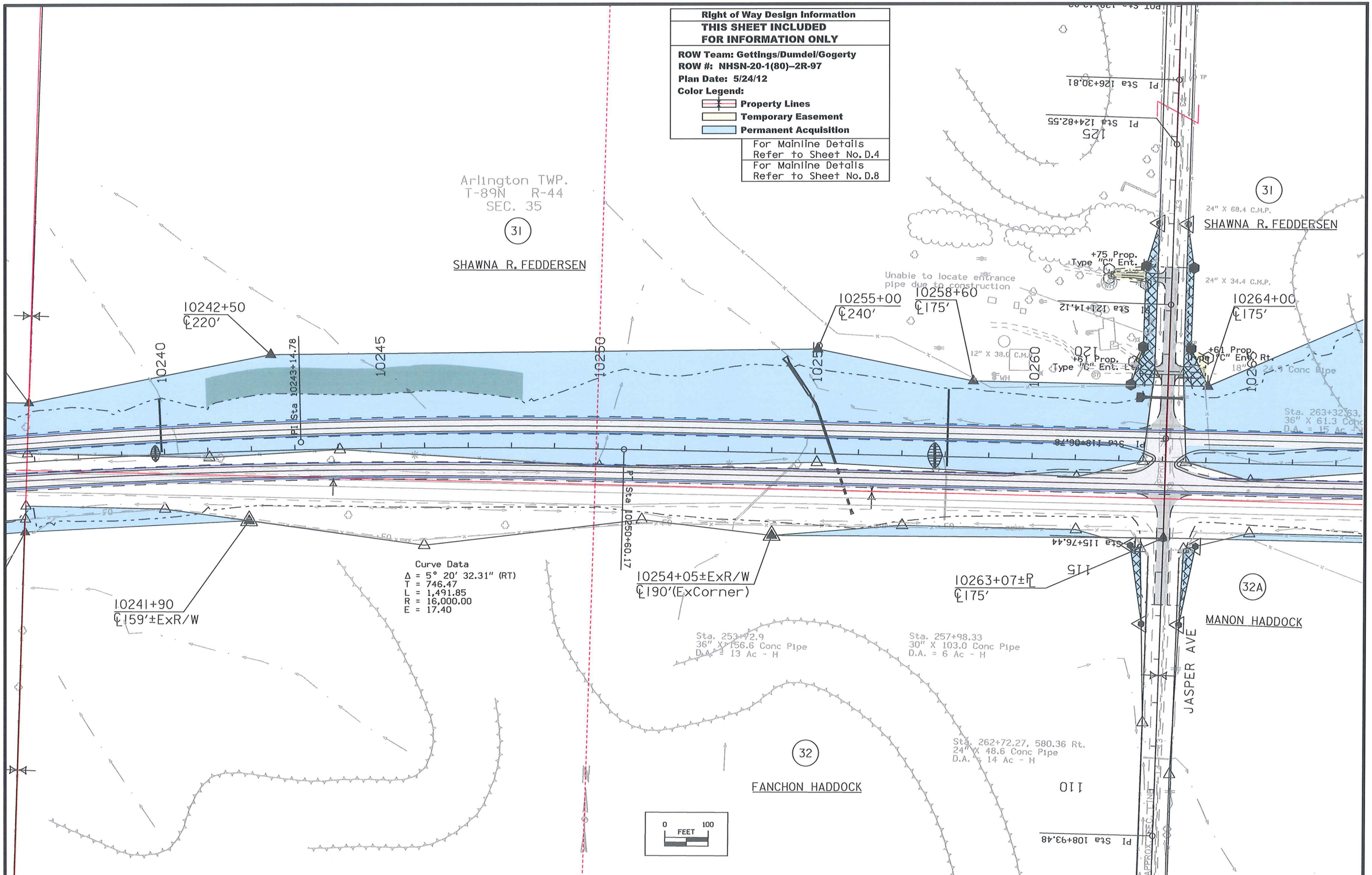

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.2

7:18:15 AM 10/15/2012 smcclan W:\Projects2\97020050A98\ROW\97020080h1.dgn

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel/Gogerty
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 5/24/12
Color Legend:

- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

For Mainline Details Refer to Sheet No. D.12

Curve Data
Δ = 0° 08' 45.44" (RT)
T = 550.11
L = 1,100.23
R = 431,900.00
E = 0.35

Curve Data
Δ = 0° 08' 45.22" (RT)
T = 300.00
L = 600.00
R = 235,632.77
E = 0.19

Arlington TWP.
T-89N R-44
SEC. 36

31

SHAWNA R. FEDDERSEN

SEN

10268+50
℄380'

10280+50
℄270'

31

SHAWNA R. FEDDERSEN

10270 10275 10280 10285 10290 10295

Pipe

263+32.63, 182.67 Lt
61.3 Conc Pipe
15 Ac - H

Sta 10274+58.69

PC Sta 10269+08.35

PC Sta 271+54.22

PT Sta 271+54.22

Sta 10280+08.81

Sta. 270+28.27
24" X 107.4 Conc Pipe
D.A. = 2 Ac - H

Sta. 279+10.99
24" X 77.8 Conc Pipe
D.A. = 1 Ac - H

Sta. 295+99.75
24" X 95.5 Conc Pipe
D.A. = 2 Ac - H

10273+15
℄315'

10279+25
℄290'

10283+45
℄170'±ExR/W

10292+90
℄176'±ExR/W

10294+75
℄210'

10269+14±ExR/W
℄175'

10271+60
℄209'±ExR/W

0 100
FEET

32A

MANON HADDOCK

34

JOHN WEAVER

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER H.3

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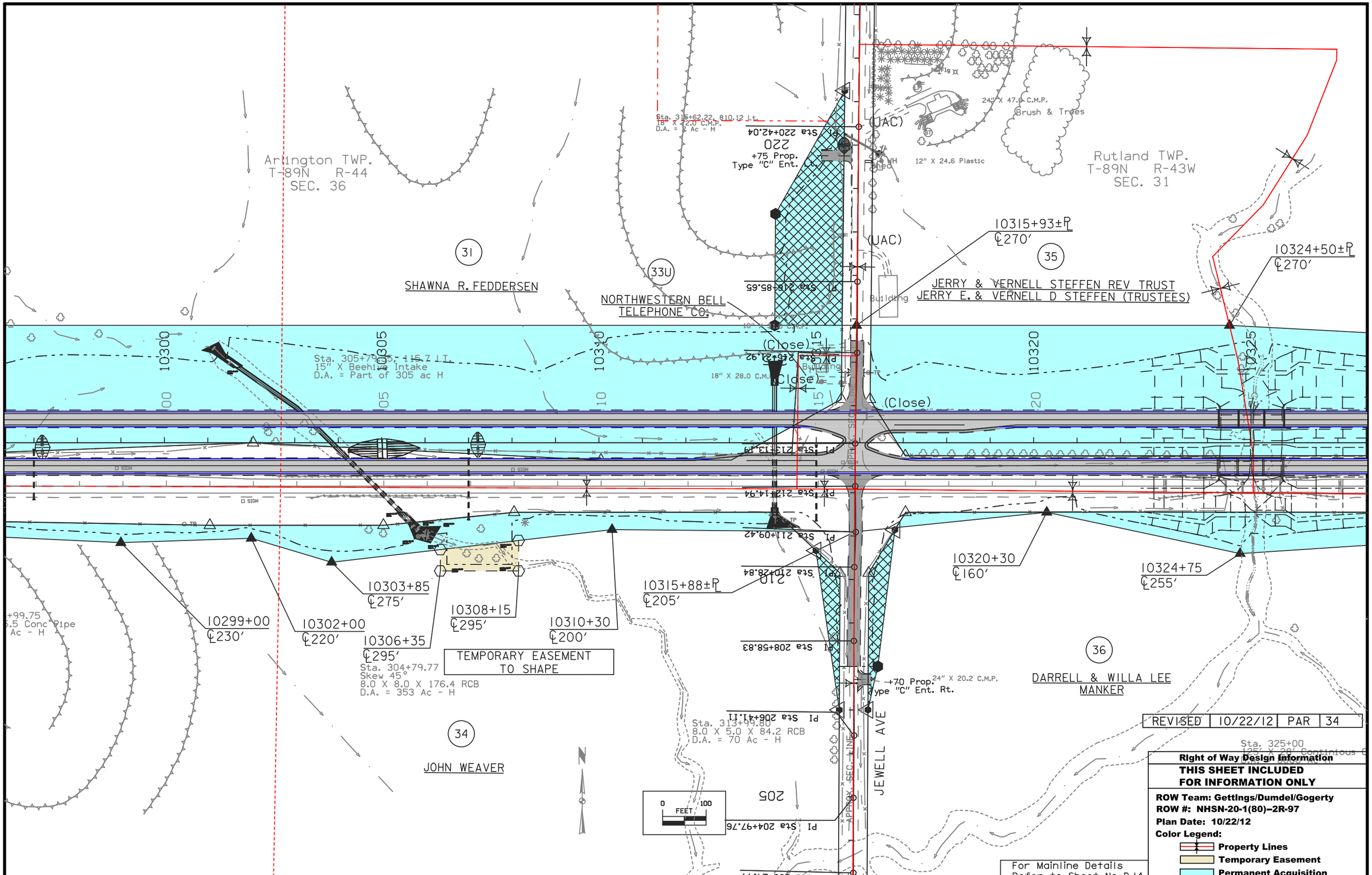

REVISED	10/22/12	PAR	34

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel/Gogerty
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 10/22/12
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

For Mainline Details Refer to Sheet No. D.14

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.4

1:20:51 PM 10/22/2012 sdumdei W:\Projects2\97020050A98\ROW\97020080h1.dgn

Rutland TWP.
T-89N R-43W
SEC. 31

37

GREG E. & TINA S.
MANKER

38

RAMONA CARRINGTON

TEMPORARY EASEMENT
TO SHAPE

+50±℄

10337+60
℄200′

10345+19±℄
℄190′

10348+50
℄180′

10355+00
℄210′

10330 10335 10340 10345 10350 10355

30 35 40 50 55

24" X 48.4 C.M.P. W/ Flume

+13 Prop. Junc. Rt.
Type "C" Ent. Lt.

(Close)

(Close)

10335+50
℄185′

10339+20
℄215′

24" X 58.2 C.M.P. W/ Flume

10345+06±℄
℄230′(ExCorner)

+13 Prop. Junc. Rt.
Type "C" Ent. Rt.

10345+65
℄335′

10345+03±℄
℄335′

10344+60
℄335′

10355+00
℄180′±ExR/W

Sta. 350+20.18
30" X 108.0 Conc. Pipe
D.A. = 9 Ac.±

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

36

DARRELL & WILLA LEE
MANKER

38

RAMONA CARRINGTON

ontinious Concrete Slab Bridge
Ac H

N

0 FEET 100

For Mainline Details
Refer to Sheet No. D.16

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel/Gogerty
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 7/11/12
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.5

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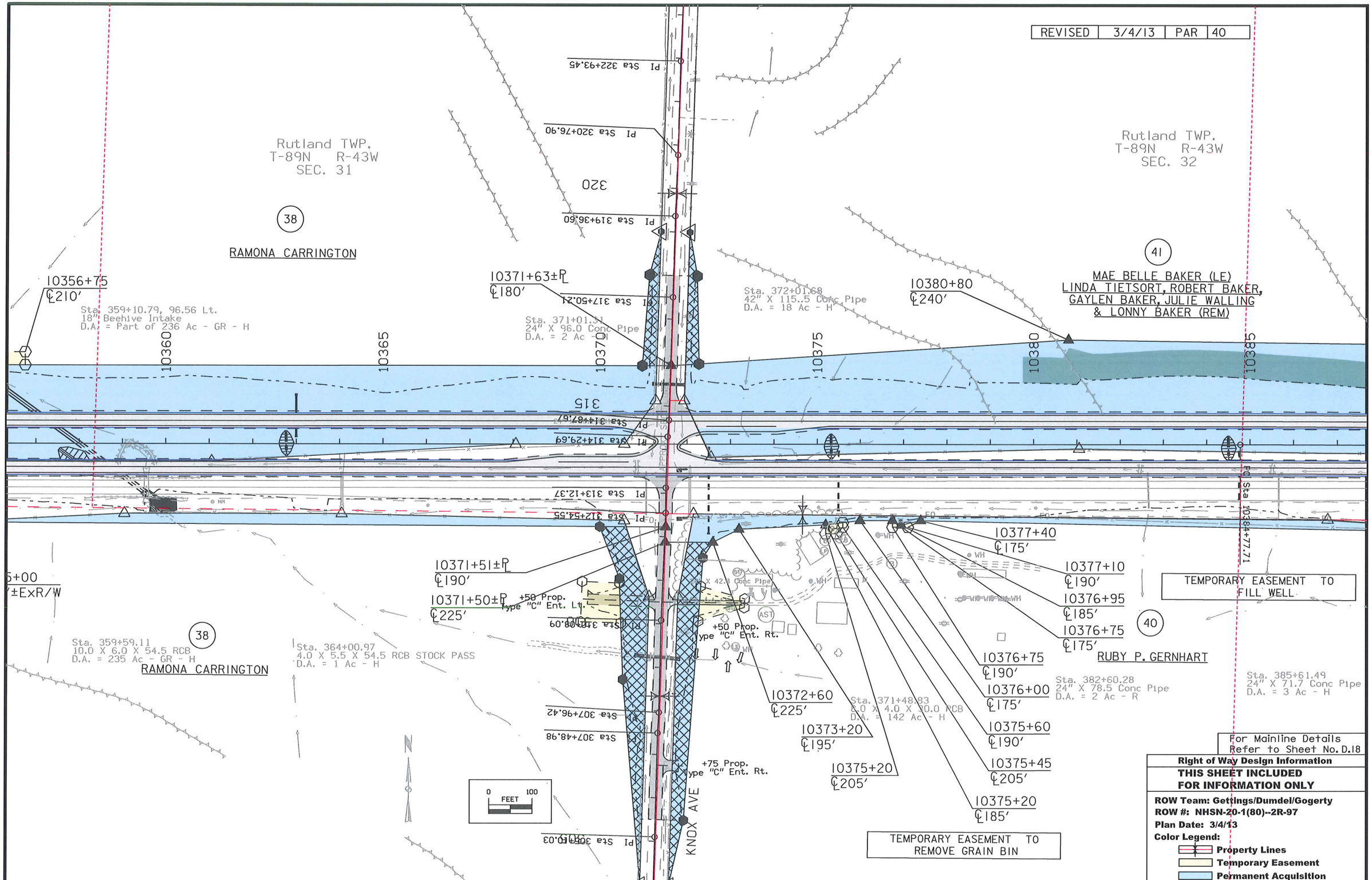

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.6

12:49:25 PM mgogert c:\pw_work\pwmain\mgogert\d0128955\97020080h1.dgn

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdei/Gogerty
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 5/1/13
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

For Mainline Details Refer to Sheet No. D.20

REVISED	5/1/13	PAR	43

Sect. No. 32

Rutland TWP.
T-89N R-43W
SEC. 32

Curve Data
Δ = 1° 44′ 12.55″ (RT)
T = 550.23
L = 1,100.37
R = 36,300.00
E = 4.17

41
MAE BELLE BAKER (LE)
LINDA TIETSORT, ROBERT BAKER,
GAYLEN BAKER, JULIE WALLING
& LONNY BAKER (REM)

43
CHARLES E. &
DIANE J. REINKING

43A
JEFFREY C. REINKING, MOLLY P. REINKING,
KEVIN D. REINKING, SUSAN D. REINKING,
KIMBERLY D. JUELFS, JAY B. JUELFS,
JILL S. BOBOLZ AND KYLE A. BOBOLZ

10398+04±℄
℄240′

10390
PI Sta 10390+27.93
10395
10400
10405
10410
10415
POT Sta 10416+93.12

Sta 10395+78.08

10391+08±ExR/W
℄198′(ExCorner)
10394+60
℄166′±℄
10396+00
℄175′
10396+85
℄162′±℄
10405+09±ExR/W
℄185′(ExCorner)
10406+00
℄200′
10416+90
℄215′
10418
℄245

TO

1.49
Conc Pipe
c - H

40
RUBY P. GERNHART

Sta. 396+15.17
24″ X 114.0 Conc Pipe
D.A. = 5 Ac - R

Sta. 402+39.67
24″ X 66.4 Conc Pipe
D.A. = 6 Ac - R

40
RUBY P. GERNHART

Sta. 414+01.71
8.0 X 8.0 X 98.6 RCB W/FLUME
D.A. = 236 Ac - R-H

40
RUBY P. GERNHART

N

0 FEET 100

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.7

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REVISED	5/1/13	PAR	43

43A

JEFFREY C. REINKING, MOLLY P. REINKING, KEVIN D. REINKING, SUSAN D. REINKING, KIMBERLY D. JUELFS, JAY B. JUELFS, JILL S. BOBOLZ AND KYLE A. BOBOLZ

Rutland TWP
T-89N R-43W
SEC. 32

Rutland TWP.
T-89N R-43W
SEC. 33

Curve Data
Δ = 1° 24' 25.06" (LT)
D = 2° 08.08'
L = 1,400.11
R = 44,800.00
E = 3.38

PI Sta 421+08.13

420
10424+51±P
℄290'

10424+51±P
℄220'

PI Sta 417+60.17

Sta. 424+90.77
24" X 66.1 Conc Pipe
D.A. = 1 Ac - R

45
HERMAN ROCK, JR & JAMES SHEEHAN

10435+00
℄230'

45
HERMAN ROCK, JR & JAMES SHEEHAN

PC Sta 10416+93.12

10420

10425

10430

PT Sta 10427+93.23

10435

10440

10445

415
PI Sta 415+29.08

PROP. 24" RCP

PROP. 24" RCP

PROP. 24" RCP

REVISED	7/17/13	PAR	45

Rutland TWP.
T-89N R-43W
SEC. 33

45

HERMAN ROCK, JR &
JAMES SHEEHAN

Sta. 450+01.7
24" X 90.2 Conc Pipe
D.A. = 11 Ac - R

10455+30
℄175'

10451+75
℄245'

10454+45
℄175'

10456+00
℄190'

10464+00
℄250'

+00 Prop. ℄ Ent. Lt.
Type 6 Inlet
Type 6 Inlet Lt.

10450 10455 10460 10465 10470 10476

520
Pi Sta 519+64.33

18" X 20.6 C.M.P.

Pi Sta 517+37.93

45

HERMAN ROCK, JR &
JAMES SHEEHAN

10477+53±℄
℄220'

515
Pi Sta 514+72.30

Pi Sta 511+92.99

Pi Sta 511+37.24

QUITCLAIM AREA

510
Pi Sta 509+51.77
(Close)

10475+55
℄190'±℄

10476+35
℄219'±℄

42

DOROTHY M. SADLER

Sta. 450+56.52, 87.4 Rt.
20" Beehive Intake
D.A. = Part of 168 Ac -H

10452+07±ExR/W
℄190'(ExCorner)

10451+01±℄
℄175'

44

BRIAN & JOANN SADLER

Sta. 455+14.28
Skew 45°
Twin 6.0 X 4.0 X 126.8 RCB
D.A. = 153 Ac - H

10462+45
℄190'±ExR/W

10463+75
℄215'

10464+26±℄
℄215'

10466+75
℄215'

10467+50
℄190'±℄

46

WILLIAM G. WILCOX REV TRUST

Sta. 468+61.44
24" X 89.9 Conc Pipe
D.A. = 1 Ac - R

Sta. 472+82.44
30" X 157.5 Conc Pipe
D.A. = 10 Ac - R

505

UAC

Pi Sta 503+19.19

N

0 FEET 100

For Mainline Details
Refer to Sheet No. D.24

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel/Gogerty
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 7/17/13
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.9

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Curve Data
Δ = 0° 42′ 28.90″ (LT)
T = 550.53
L = 1,101.05
R = 89,100.00
E = 1.70

47
ROGER & JOAN REINKING

Rutland TWP.
T-89N R-43W
SEC. 34

47
ROGER & JOAN REINKING

Sta. 477+75.45, 434.71 Lt.
30″ X 55.7 Conc Pipe
D.A. = 17 Ac - R

Sta. 477+75.13, 140.93 Lt.
42″ X 66.8 Conc Pipe
D.A. = 24 Ac - R

10480 10485 10490 10495 10500 10505

PC Sta 10486+42.38

PT Sta 10491+92.91

PC Sta 10497+43.43

10497+30
℄275′

18″ X 32.7 Conc Pipe

Sta. 477+82.61,
30″ X 96.8 Conc Pipe
D.A. = 2 Ac - R

10495+40
℄206′±ExR/W

10501+07±ExR/W
℄220′(ExCorner)

10505
℄230

TEMPORARY EASEMENT FOR
CHANNEL SHAPING

Sta. 482+02.21,
Skew 45°
36″ X 109.2 Conc Pipe
D.A. = 12 Ac - R

48
LYLE & LINDA FIKSE

Sta. 495+41.59
Skew 30°
24″ X 102.4 Conc Pipe
D.A. = 4 Ac - H

48
LYLE & LINDA FIKSE

+80 Prop.
Type "C" Ent. Rt.

10496+45
℄390′

10497+70
℄315′

0 100
FEET

For Mainline Details
Refer to Sheet No. D.26

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/DumdelGogerty
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 12/18/12
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.10

9:17:26 AM 12/18/2012 mgogert W:\Projects2\97020050A98\ROW\97020080h1.dgn

47

ROGER & JOAN REINKING

Rutland TWP.
T-89N R-43W
SEC. 34

49

DARRELL & JEANETTE K. SUSIE

+00 Prop.
Type "C" Ent. Lt.

+00 Prop.
Type "C" Ent. Rt.

Rutland TWP.
T-89N R-43W
SEC. 35

Curve
Δ = 1°
T = 550
L = 1,10
R = 53,6
E = 2.82

Curve Data
Δ = 1° 10' 20.16" (RT)
T = 295.90
L = 591.78
R = 28,923.88
E = 1.51

49A

PABLO & LINDA D. MUNOZ

Sta. 530+77.52
24" X 72.4 Conc Pipe
D.A. = 2 Ac - H

10530+31±℄
℄285'

10516+94±Fence **
℄223.4'

QUIT CLAIM AREA

10517+15±℄
℄225'

10510+35
℄175'

10533+30
℄285'

10509+00
℄230'

10516+94±Fence
℄210.4'

10517+10±℄
℄210'

10526+65
℄250'

10530+27±℄
℄250'

50

GREG E. MEISTER

Sta. 526+44.63
Skew 15°
8.0 X 6.0 X 107.1 RCB
D.A. = 274 Ac - H

Sta. 508+02.83
24" X 89.74 Conc Pipe
D.A. = 4 Ac - H

Sta. 513+77.97
Skew 45°
42" X 114.3 Conc Pipe
D.A. = 20 Ac - H

QUIT CLAIM AREA

48

LYLE & LINDA FIKSE

Sta. 530+15.01, 753.99 Rt.
39' X 34.5' Wood Bridge
D.A. = 338 Ac - H

+80 Prop.
Type "C" Ent. Rt.
24" X 33.8 C.M.P.

LUCAS AVE

0 100
FEET

For Mainline Details
Refer to Sheet No. D.28

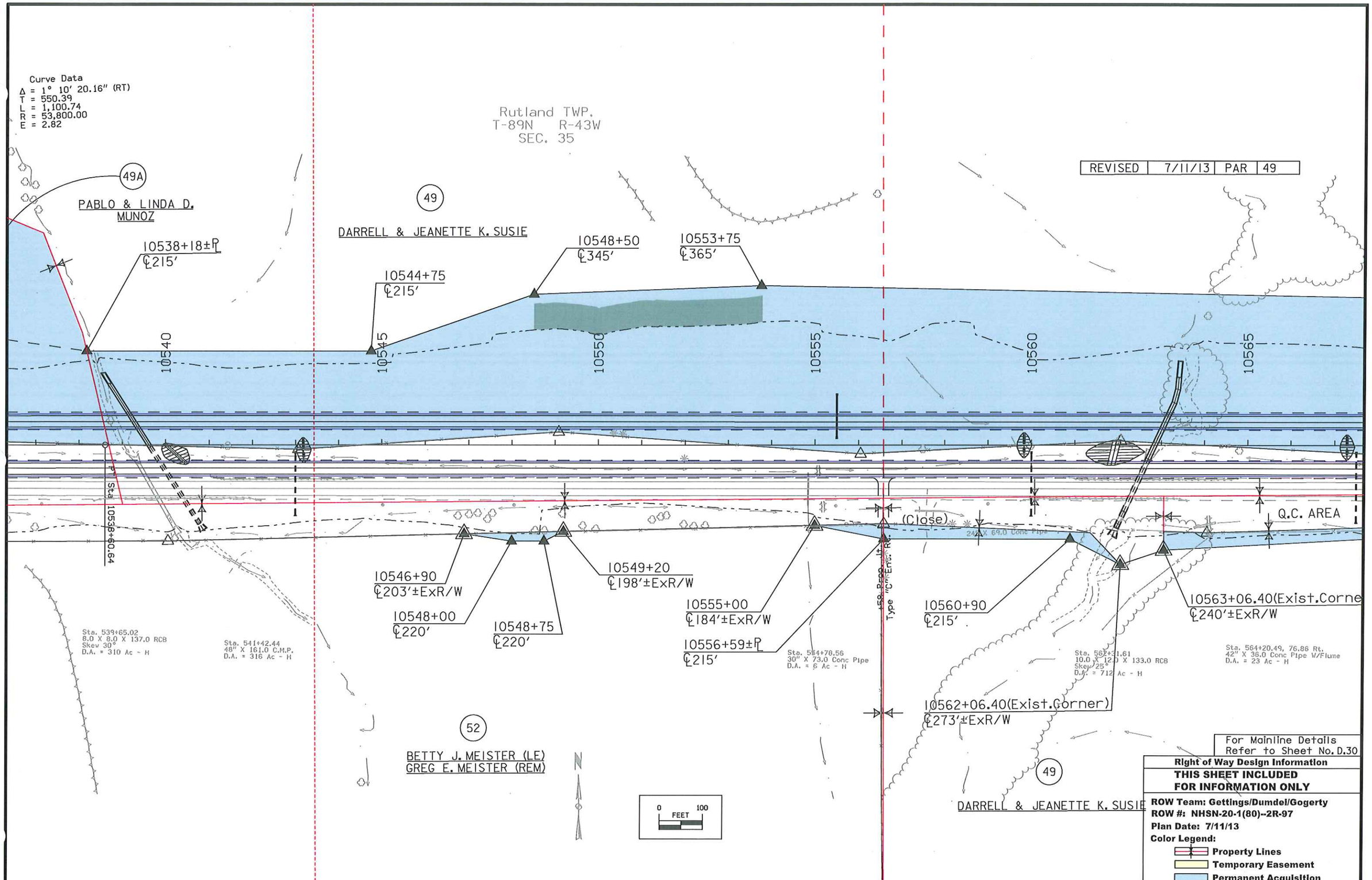
Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel/Gogerty
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 12/18/12
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.11

9:17:27 AM 12/18/2012 mgogert W:\Projects2\97020050A98\ROW\97020080h1.dgn



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.12

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REVISED	7/11/13	PAR	49
REVISED	7/11/13	PAR	54

49

DARRELL & JEANETTE K. SUSIE

Rutland TWP.
T-89N R-43W
SEC. 35

Curve Data
Δ = 0° 07' 21.40" (LT)
T = 550.07
L = 1,100.15
R = 514,100.00
E = 0.29

Curve Data
Δ = 0° 07'
T = 300.00
L = 600.0
R = 280.0
E = 0.1

+85 Prop. Type "C" Ent. Lt.

+35 Prop. Type "C" Ent. Rt.

10583+07±P
℄310'

Pl Sta 715+46.28

Rutland TWP.
T-89N R-43W
SEC. 36

53

KAREN WILCOX (3/4 INT)
RYAN WILCOX (1/4 INT)

10570 10575 10580 10585 10590 10595

Pt Sta 10575+05.29

Pt Sta 677+49.39

18" X 26.2 Conc Pipe

Pt Sta 10586+05.44

Pl Sta 713+89.75

Pl Sta 712+13.08

Pl Sta 711+56.55

Pl Sta 710+44.04

715 710 705

AREA

Q.C. AREA

(Close)

t.Corner)

10572+40
℄188'±ExR/W

Sta. 570+03.10,
30" X 89.7 Conc Pipe W/Flume
D.A. = 8 Ac - H

10586+90
℄255'

10590+40
℄205'

TEMPORARY EASEMENT
TO SHAPE

10585+50
℄255'

586+22.88
36" X 106.5 Conc Pipe
D.A. = 7 Ac R

585+33.87
Skew 20°
3.0 X 3.0 X 229.6 RCB
D.A. = 13 Ac R

54

CAROL WELCH, JANE PRUEHER,
GEORGA BRAY, BERNICE BOYKIN,
TIMOTHY HINKHOUSE & RICHARD HINKHOUSE

+00 Prop. Type "C" Ent. Rt.

10584+73±ExR/W
℄205'

Pl Sta 708+49.71

Pl Sta 705+94.52

Pl Sta 705+53.52

582+89.57, 671.84
18" X 42.2 Conc Pipe
D.A. = 6 Ac R

49

DARRELL & JEANETTE K. SUSIE

0 100
FEET

LENGTH

For Mainline Details
Refer to Sheet No. D.32

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY
ROW Team: Getting /Dumdel/Gogerty
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 7/11/13
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.13

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Rutland TWP.
T-89N R-43W
SEC. 36

53

KAREN WILCOX (3/4 INT)
RYAN WILCOX (1/4 INT)

QUIT CLAIM AREA

10609+55±Fence
℄340'

10609+35±P
℄340'

10612+40
℄340'

10616+40
℄275'

55

LOREN D. & NANCY B. GORDON

10600 10605 10610 10615 10620 10625

FO

10597+00
℄300'
598+89.53
Skew 30°
3.0 X 3.0 X 263.1 RCB
D.A. = 19 Ac R

RCB

10604+65
℄195'

603+55.96
Skew 30°
24" X 83.2 Conc Pipe
D.A. = 3 Ac R

54

CAROL WELCH, JANE PRUEHER,
GEORGA BRAY, BERNICE BOYKIN,
TIMOTHY HINKHOUSE & RICHARD HINKHOUSE

10609+55
℄360'

QUIT CLAIM AREA

10609+40±P
℄360'

10613+50
℄340'

10616+00
℄214'±ExR/W

628+10.61, 66.25 R
42" X 29.5 Conc Pi
D.A. = 30 Ac R

56

MILT AND BRUCE WILLEMS

0 100
FEET

For Mainline Details
Refer to Sheet No. D.34

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel/Gogerty
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 5/24/12
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.14

7:18:33 AM 10/15/2012 smcclan W:\Projects2\97020050A98\ROW\97020080h1.dgn

Rutland TWP.
T-89N R-43W
SEC. 36

Union TWP.
T-89N R-42W
SEC. 31

57

LEWIS & JANET BYERS

59

ROBERT L. KNAACK (1/2 INT)
RAYMOND L. & ANN S. KNAACK (1/2 INT)

635+29.54, 966.52 Lt.
30" X 66.6 CMP
D.A. = 7 Ac H

Pl Sta 821+64.84

10635+68±℄
℄275'

820

635+27.93
24" X 98.0 Conc Pipe
D.A. = 1 Ac H

Pl Sta 818+01.30

624+99.66
54" X 90.8 Conc Pipe W/Flume
D.A. = 35 Ac H

636+23.95
24" X 78.0 Conc Pipe
D.A. = 14 Ac H

10650+80±℄
℄290'

+83 Proj. Jt.
Type "C" Ent. Lt.

10630 10635 10640 10645 10650 10655

815

Pl Sta 804+57.47

Pl Sta 813+42.38

(Close)

24" X 255.0 CMP

Pl Sta 812+24.09

10630+50
℄210'

10631+75 810
℄178'±ExR/W

635+27.05
5.0 X 4.0 Box Culvert
D.A. = 103 Ac H

Pl Sta 809+01.02

10635+71±℄
℄295'

644+00.64,
54" X 120.1 Conc Pipe W/Flume
D.A. = 36 Ac H

652+07.02,
42" X 73.0 Conc Pipe W/Flume
D.A. = 16 Ac H

10655+39±℄
℄190'(ExCorner)

10.61, 66.25 Rt.
29.5 Conc Pipe W/Flume
30 Ac R

10' X 19.7 Plastic Pipe

10628+06±ExR/W
℄190'(ExCorner)

(Close)

Pl Sta 807+29.98

56

MILT AND BRUCE WILLEMS

805

Pl Sta 807+25.58
+00/Prop.
Type "C" Ent. Lt.

MINNESOTA AVE.

N

0 FEET 100

58

DARWIN D. SHEVER

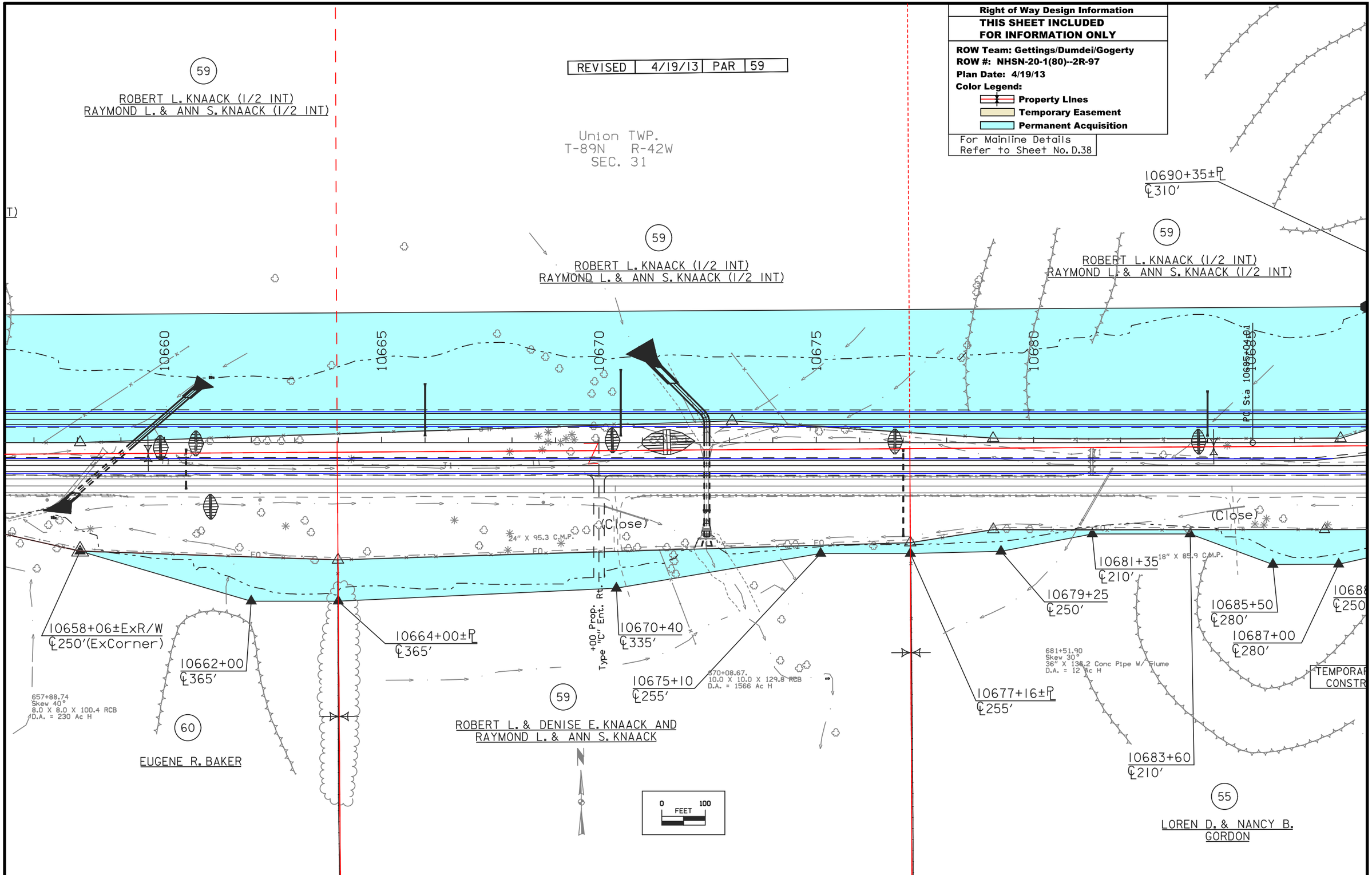
For Mainline Details
Refer to Sheet No. D.36

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel/Gogerty
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 5/24/12
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.15

7:18:34 AM 10/15/2012 smcclan W:\Projects2\97020050A98\ROW\97020080h1.dgn



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.16

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Union TWP.
T-89N R-42W
SEC. 32

55
LOREN D. & NANCY B. GORDON

55
LOREN D. & NANCY B. GORDON

64
CLARK BYERS, KAREN IVERSON, CRAIG BYERS & KEVIN BYERS

55
LOREN D. & NANCY B. GORDON

10688+40 ℄250′

10689+75 ℄340′

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

10690+36±P ℄400′

10690+95 ℄340′

10692+30 ℄250′

10692+90 ℄400′

10694+65 ℄315′

10695+65 315′

10696+30 ℄340′

10697+70 ℄275′

10702+45 ℄350′

10703+35±P ℄350′

10706+60 ℄200′±ExR/W

10711+80 ℄300′

10716+73±P ℄400′

Curve Data
Δ = 1° 56′ 00.92" (LT)
T = 550.14
L = 1,100.17
R = 32,600.00
E = 4.64

Curve Data
Δ = 1° 56′ 00.92" (LT)
T = 386.70
L = 773.33
R = 22,915.08
E = 3.26

Pt Sta 910+47.03
Pt Sta 900+36.74
Pt Sta 900+35.41
Pt Sta 903+61.65
Pt Sta 901+15.77
POT Sta 900+00.00
Pt Sta 10690+35.96

910
906
904
903
902
901
900
10695
10700
10705
10710
10715

MASON AVE

Brush & Trees

Sta. 719+27.02
4.0 X 4.0 Umbrel
D.A. = 1 Ac - H

Sta. 700+79.94
Skew 10°
6.0 X 6.0 X 226.8 RCB
D.A. = 306 Ac - H

+28 Prop. Type "C" Entr. Rt.

18" X 63.8 C.M.P.

24" X 42.7 C.M.P.

24" X 42.7 C.M.P.

(Close)

(Close)

(Close)

0 FEET 100

For Mainline Details Refer to Sheet No. D.40

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel/Gogerty
ROW #: NHSN-20-1(80)–2R-97
Plan Date: 9/6/12
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.17

7:18:38 AM 10/15/2012 smcclan W:\Projects2\97020050A98\ROW\97020080h1.dgn

REVISED	9/26/12	PAR	67

Union TWP.
T-89N R-42W
SEC. 32

65
SHAWN W. H. & JERI E.
GROSZKRUEGER

65
SHAWN W. H. & JERI E.
GROSZKRUEGER

Curve Data
Δ = 1° 09' 58.39" (RT)
T = 550.60
L = 1,101.17
R = 54,100.00
E = 2.80

67
MIKE & IDA J. YAREMKO

Curve Data
Δ = 1° 09' 58.39" (RT)
T = 300.00
L = 599.98
R = 29,476.70
E = 1.53

10749
℄665

10725+20
℄295'

10736+10
℄335'

10743+41±℄
℄315'

Sta. 719+25.04, 110.21 Lt.
36" X 67.5 C.M.P.
D.A. = 7 Ac - H

19+27.02, 40.73 Lt.
4.0 Umbrella Intake
1 Ac - H

10720
10725
10730
10735
10740
10745

Sta. 10742+59.08

Brush & Trees

Sta. 10737+08.48

PC Sta. 739+55.60

PT Sta. 745+55.58

Brush & Trees

10723+50
℄250'

10720+90
℄180'±ExR/W

10729+63±℄
℄290'

10733+35
℄217'±ExR/W

18" X 25.7 C.M.P.

68
BRUCE A. & SHARLEEN E.
DUNCAN

Sta. 719+26.94,
36" X 79.0 Conc PIPE
D.A. = 8 Ac - H

Sta. 728+73.01
Skew 25°
5.0 X 5.0 X 194.6 RCB W/ flume
D.A. = 69 Ac - H

Sta. 732+60.7
Skew 40°
3.0 X 4.0 X 186.3 RCB
D.A. = 17 Ac - H

68
BRUCE A. & SHARLEEN E.
DUNCAN

Sta. 748+92
24 X 41.5 C
D.A. = 2 A

66
MICHEAL J. MC DERMOTT

N

0 FEET 100

For Mainline Details
Refer to Sheet No. D.42

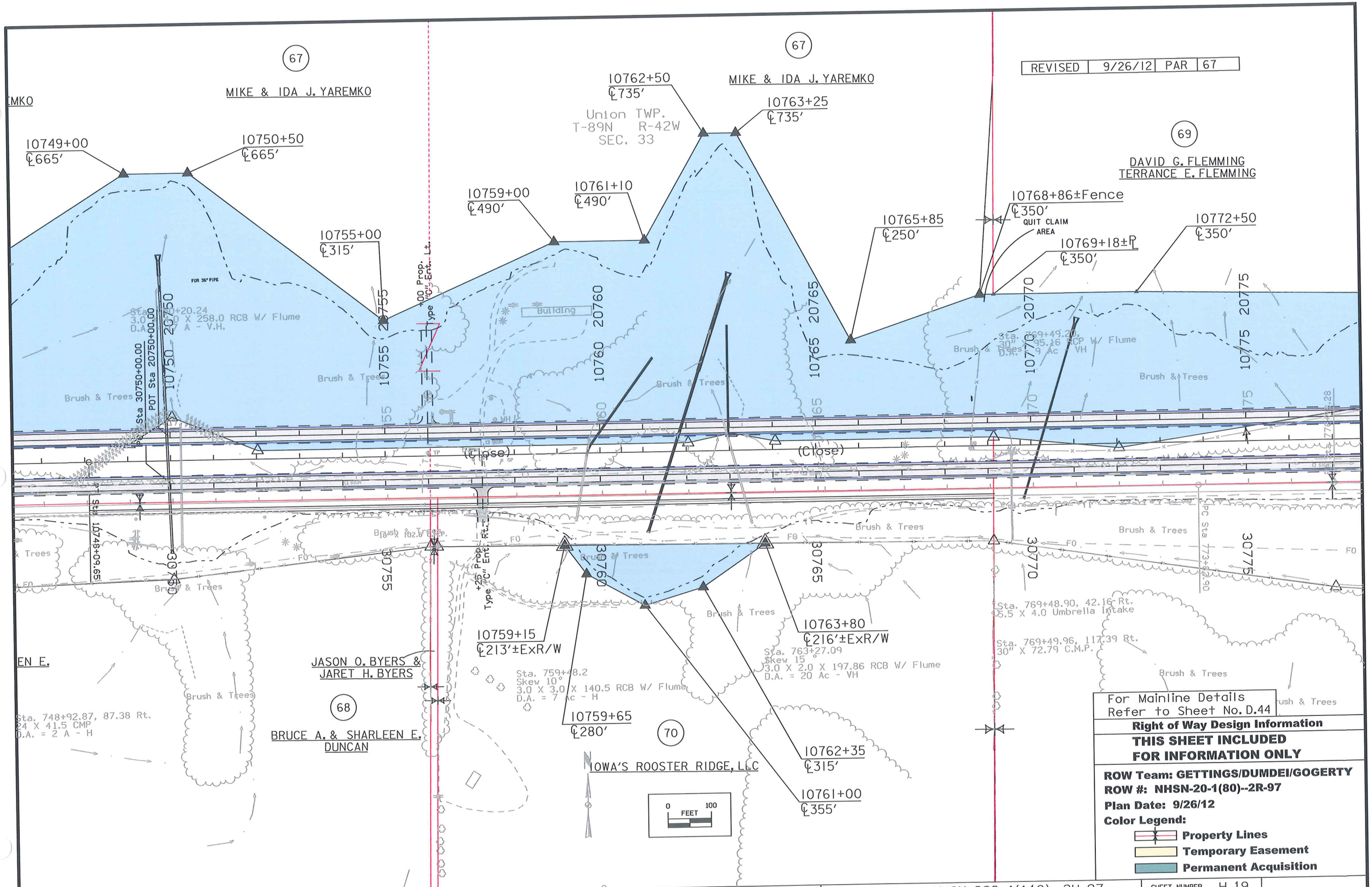
Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel/Gogerty
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 9/26/12
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.18

7:18:39 AM 10/15/2012 smcclan W:\Projects2\97020050A98\ROW\97020080h1.dgn



C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.19

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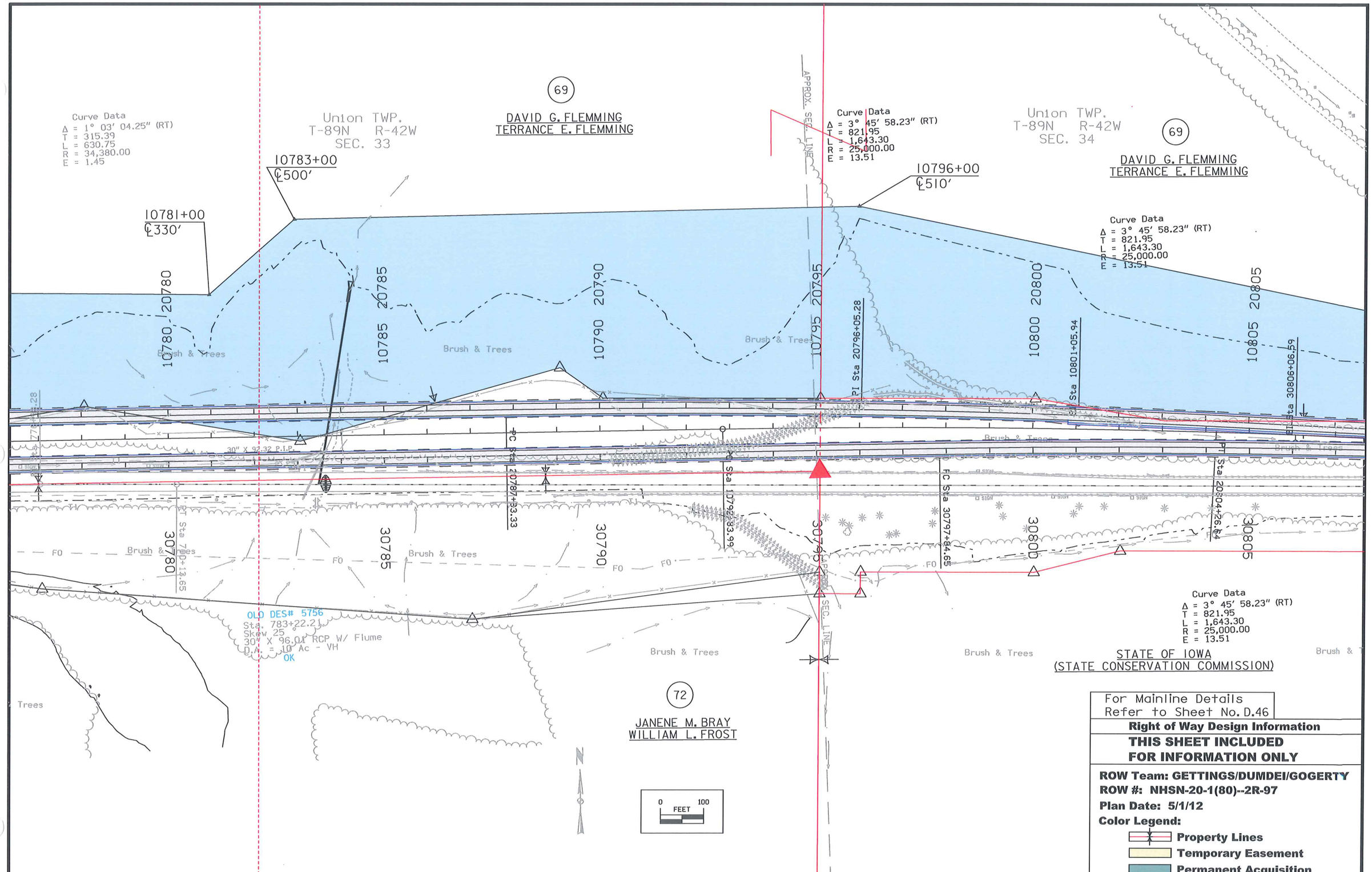

For Mainline Details
Refer to Sheet No. D.46

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 5/1/12
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.20

7:18:42 AM 10/15/2012 smcclan W:\Projects2\97020050A98\ROW\97020080h1.dgn

REVISED	3/20/13	PAR	75&75A
REVISED	4/18/13	PAR	75

73

BERNICE BRAUNINGER

75A

HEIRS AND ASSIGNS OF HUGH E. & FLORENCE M. McGUIRE AND JAMES J. & MARGARET M. McGUIRE

69

DAVID G. FLEMMING
TERRANCE E. FLEMMING

Union TWP.
T-89N R-42W
SEC. 34

STA. 10820+00.00 (ML)
END PROJECT

75

GRANT R. & SUSAN FITCH

10814+90±℄
℄180'

10818+06±℄
℄135'

10818+23±℄
℄135'

10821+00±℄
℄135'
FUTURE LINE

Quitclaim Area

20810
20815
20820

Pt Sta 10808+27.29

Sta 10814+27.95

Sta. 820+40.46,
Skew 47°
24" X 156.40 RCP

30810
30815
30820

FRED BRAUNINGER (1/2 INT.)
CLARK BRAUNINGER (1/2 INT.)

0 100
FEET

77

NELLIE BELLE FARMS, LLC

Curve Data
Δ = 2° 42' 53.98" (LT)
T = 284.37
L = 568.63
R = 12,000.00
E = 3.37

10825 20825

PC Sta 30825+54.46
PC Sta 10825+77.50
PC Sta 20826+00.54

10830 20830

PT Sta 30831+23.09
PT Sta 10831+46.13
PT Sta 20831+69.17

Sta. 41+24.47,
42" X 127.0 RCP

Curve Data
Δ = 2° 42' 53.99" (LT)
T = 284.37
L = 568.63
R = 12,000.00
E = 3.37

PT Sta 20828+84.91
PT Sta 10828+61.87
PT Sta 30828+38.83

Sta. 828+18.25,
8" X 98.0 RCP

77

NELLIE BELLE FARMS, LLC

30830
30835

Curve Data
Δ = 2° 42' 53.99" (LT)
T = 284.37
L = 568.63
R = 12,000.00
E = 3.37

NEL

Sta. 43+99.96
4.0 X 6.0 X 4

PC Sta 44+00.10

Pt Sta 43+16.87

10835 20835

Pol Sta 40+80.56

Sta. 824+50.31,
Skew 58°
30" X 1[illegible].1 RCP

For Mainline Details
Refer to Sheet No. D.48

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 4/18/13
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER H.21

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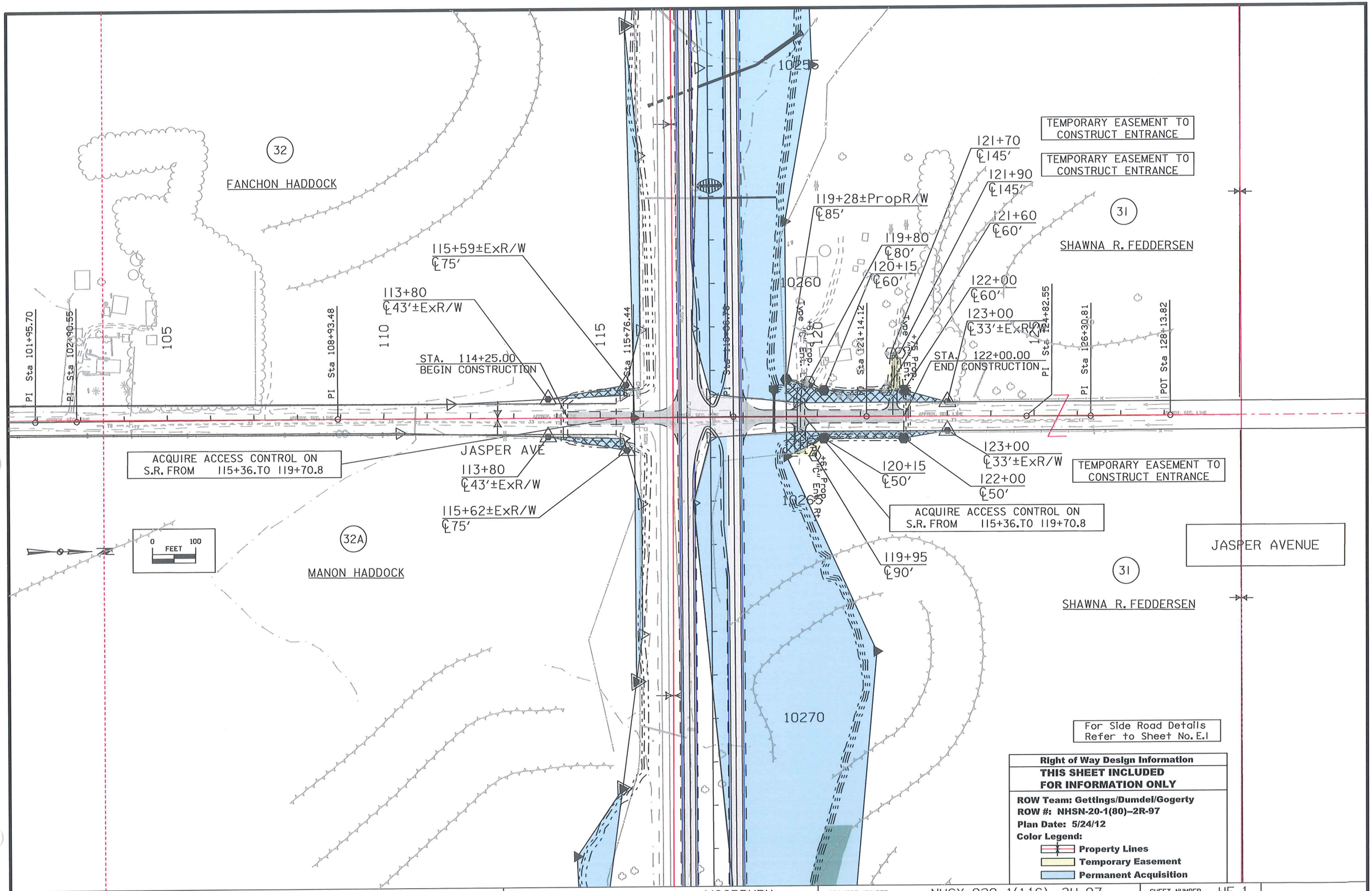

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER HE.1

7:09:59 AM 10/15/2012 smcclan W:\Projects2\97020050A98\ROW\97020080he1.dgn

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel/Gogerty
ROW #: NHSN-20-1(80)-97
Plan Date: 9/6/12
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

For Side Road Details Refer to Sheet No. E.2
For Side Road Details Refer to Sheet No. E.3

34

JOHN WEAVER

31

SHAWNA R. FEDDERSEN

36

DARRELL & WILLA LEE MANKER

35

JERRY & VERNELL STEFFEN REV TRUST
JERRY E. & VERNELL D STEFFEN (TRUSTEES)

Rutland TWP.
T-89N R-43W
SEC. 31

JEWELL AVE

10310

10320

10325

210+63±ExR/W
℄90′

207+00
℄34′±ExR/W

207+00
℄32′±ExR/W

208+00
℄55′

211+14±ExR/W
℄90′

215+84±PropR/W
℄190′

218+40
℄190′

221+25
℄33′±ExR/W

POT Sta 200+00.00
PI Sta 201+59.09
PI Sta 203+24.99
PI Sta 204+97.76
PI Sta 206+41.11
PI Sta 208+58.83
PI Sta 210+28.84
PI Sta 211+09.42
PI Sta 212+14.94
PI Sta 213+13.84
PI Sta 214+21.92
PI Sta 216+85.65
PI Sta 220+42.04
PI Sta 224+37.28
PI Sta 225+64.87
POT Sta 228+00.12

STA. 208+00.00
BEGIN CONSTRUCTION

STA. 215+50.00
END CONSTRUCTION

Type "C" Prop. Ent.

Type "C" Prop. Ent.

(Close)

(UAC)

ACQUIRE ACCESS CONTROL ON S.R. FROM 210+98 TO 215+32

ACQUIRE ACCESS CONTROL ON S.R. FROM 210+98 TO 215+32

0 100 FEET

JEWELL AVENUE

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER HE.2

7:10:07 AM 10/15/2012 smcclan W:\Projects2\97020050A98\ROW\97020080he1.dgn

REVISED	3/4/13	PAR	40

Rutland TWP.
T-89N
R-43W
SEC. 31

38

RAMONA CARRINGTON

38

RAMONA CARRINGTON

10365

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

312+18±PropR/W
℄150′

ACQUIRE ACCESS CONTROL ON S.R. FROM 311+95.5TO 316+29.5

310+90
℄185′

310+00
℄185′

304+00
℄31′±ExR/W

STA. 305+50.00
BEGIN CONSTRUCTION

308+70
℄85′

311+00
℄100′

+50 Prop. Type "C" Ent. Lt.

315+91±P
℄65′

318+00
℄55′

319+00
℄31′±ExR/W

STA. 318+00.00
END CONSTRUCTION

POT Sta 300+00.00
PI Sta 305+50.03
Sta 307+48.98
Sta 307+96.42
PI Sta 310+08.09
PI Sta 312+54.55
PI Sta 313+12.37
PI Sta 314+29.69
PI Sta 314+67.67
PI Sta 317+50.21
PI Sta 319+36.60
PI Sta 320+76.90
PI Sta 322+93.45
POT Sta 326+67.01

300
315
320
325

10370

APPROX. SEC. LINE

304+00
℄35′±ExR/W

305+50
℄65′

KNOX AVE. S.

310+10
℄88′±PropR/W

310+90
℄88′±PropR/W

+50 Prop. Type "C" Ent. Rt.

311+55
℄90′

310+45
℄190′

310+65
℄190′

315+99±P
℄65′

318+00
℄55′

319+00
℄35′±ExR/W

0 FEET 100

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE
DO NOT DISTURB SEPTIC TANK

10375

ACQUIRE ACCESS CONTROL ON S.R. FROM 311+95.5TO 316+29.5

KNOX AVENUE

40

RUBY P. GERNHART

41

MAE BELLE BAKER (LE)
LINDA TIETSORT, ROBERT BAKER,
GAYLEN BAKER, JULIE WALLING
& LONNY BAKER (REM)

10380

For Side Road Details
Refer to Sheet No. 3,4

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel/Gogerty
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 3/4/13
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER HE.3

12:56:34 PM 3/4/2013 mgogert c:\pw_work\pwmain\mgogert\d0128955\97020080he1.dgn

REVISED	5/1/13	PAR	43

43A

JEFFREY C. REINKING, MOLLY P. REINKING, KEVIN D. REINKING, SUSAN D. REINKING, KIMBERLY D. JUELFS, JAY B. JUELFS, JILL S. BOBOLZ AND KYLE A. BOBOLZ

43

CHARLES E. & DIANE J. REINKING

Rutland TWP. T-89N R-43W SEC. 32

40

RUBY P. GERNHART

411+27±PropR/W
℄160'

STA. 404+50.00
BEGIN CONSTRUCTION

402+80
℄33'±ExR/W

POT Sta 400+00.00

Sta 405+02.80

PI Sta 408+37.50

PI Sta 411+85.16

PI Sta 412+61.24

PI Sta 413+03.34

PI Sta 415+29.08

PI Sta 417+60.17

PI Sta 421+08.13

POT Sta 426+18.61

400 405 410 415 420 425

10415

10420

416+93±P
℄110'

419+25
℄85'

STA. 419+25.00
END CONSTRUCTION

420+00
℄35'±ExR/W

APPROX. SEC. LINE

APPROX. ROW

APPROX. CENTERLINE

11th KOSSUTH AVE (220th ST)

+00 Prop. "C" Ent. Rt.

402+80
℄33'±ExR/W

408+00
℄165'

411+33±PropR/W
℄185'

ACQUIRE ACCESS CONTROL ON S.R. FROM 411+87.3 TO 416+21.3

0 100 FEET

42

DOROTHY M. SADLER

10430

419+25
℄60'

420+00
℄31'±ExR/W

ACQUIRE ACCESS CONTROL ON S.R. FROM 411+87.3 TO 416+21.3

416+26±PropR/W
℄70'

45

HERMAN ROCK, JR & JAMES SHEEHAN

KOSSUTH AVENUE

For Side Road Details Refer to Sheet No. E.5

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel/Gogerty
ROW #: NHSN-20-1(80)–2R-97
Plan Date: 5/1/13
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER HE.4

2:00:10 PM 5/1/2013 mgogert c:\pw_work\pwmain\mgogert\d0128955\97020080he1.dgn

46

WILLIAM G. WILCOX REV TRUST

45

HERMAN ROCK, JR & JAMES SHEEHAN

48

LYLE & LINDA FIKSE

47

ROGER & JOAN REINKING

LEE AVE

LEE AVENUE

10470

10475

10480

10485

POT Sta 500+00.00

500

PI Sta 503+19.19

505

PI Sta 509+51.77 (Close)

510

PI Sta 511+37.24

PI Sta 511+97.99

PI Sta 514+72.36

515

PI Sta 517+37.93

PI Sta 519+64.33

520

POT Sta 522+83.03

506+00
℄40'±ExR/W

509+59±P
℄60'

507+00
℄60'

STA. 507+00.00
BEGIN CONSTRUCTION

514+57±PropR/W
℄80'

516+50
℄41'±ExR/W

STA. 516+50.00
END CONSTRUCTION

516+50
℄39'±ExR/W

514+61±PropR/W
℄75'

500+25
℄40'±ExR/W

503+80
℄105'

+80 Prop. 10" Ent. Rt.

510+14±ExR/W
℄105'

ACQUIRE ACCESS CONTROL ON S.R. FROM 510+20.3 TO 514+54.3

ACQUIRE ACCESS CONTROL ON S.R. FROM 510+20.3 TO 514+54.3

0 100 FEET

For Side Road Details Refer to Sheet No. E.6

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel/Gogerty
ROW #: NHSN-20-1(80)–2R-97
Plan Date: 12/18/12
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER HE.5

9:19:04 AM 12/18/2012 mgogert W:\Projects2\97020050A98\ROW\97020080he1.dgn

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdeu/Gogerty
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 5/24/12
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

For Side Road Details Refer to Sheet No. E.7

50

GREG E. MEISTER

609+47±PropR/W
℄75′

STA. 607+50.00
BEGIN CONSTRUCTION

605+00
℄33′±ExR/W

605

POT Sta 600+00.00

PI Sta 601+48.78

PI Sta 602+66.68

PI Sta 606+48.65

PI Sta 610+02.22

PI Sta 610+98.97

PI Sta 611+79.38

10525

49

DARRELL & JEANETTE K. SUSIE

614+71±PropR/W
℄230′

614+75±PropR/W
℄150′

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

PERMANENT EASEMENT FOR SNOW CONTROL MEASURES

618+75
℄230′

618+75
℄150′

620+45
℄205′

621+45
℄205′

620

PI Sta 614+29.29

PI Sta 615+00.41

PI Sta 620+57.65

Type "C" Ent. Rt. +00

625

POT Sta 625+07.57

STA. 622+50.00
END CONSTRUCTION

624+50
℄28′±ExR/W

624+00
℄33′±ExR/W

621+35
℄95′

620+65
℄95′

10530

LUCAS AVE

605+00
℄33′±ExR/W

608+50
℄110′

609+27±PropR/W
℄80′

609+44±ExR/W
℄110′

Type "C" Ent. Rt. +80

(Close)

Type "C" Prop. Ent. Rt. +00

Rutland TWP. T-89N R-43W SEC. 35

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

ACQUIRE ACCESS CONTROL ON S.R. FROM 609+81.3 TO 614+15.3

52

BETTY J. MEISTER (LE)
GREG E. MEISTER (REM)

10535

49

DARRELL & JEANETTE K. SUSIE

619+44±PropR/W
℄75′

ACQUIRE ACCESS CONTROL ON S.R. FROM 609+81.3 TO 614+15.3

10540

0 100 FEET

LUCAS AVENUE

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER HE.6

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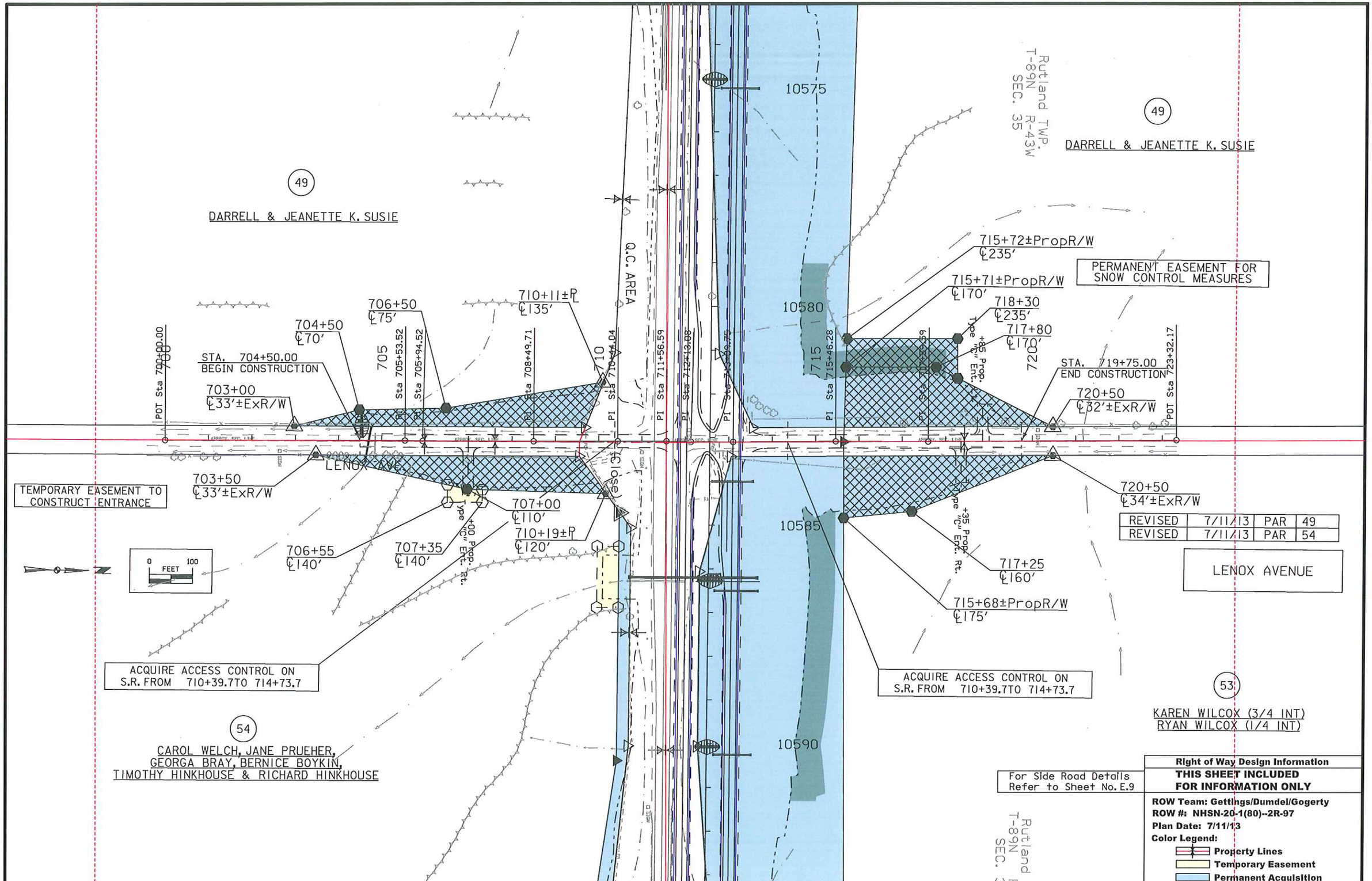

REVISED	7/11/13	PAR	49
REVISED	7/11/13	PAR	54

For Side Road Details
Refer to Sheet No. E.9

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel/Gogerty
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 7/11/13
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER HE.7

8:38:00 AM 7/12/2013 mgogert c:\pw_work\pwmain\mgogert\d0128955\97020080he1.dgn

REVISED	8/12/13	PAR	56

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdei/Gogerty
ROW #: NHSN-20-1(80)--2R-97
Plan Date: 8/12/13
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

For Side Road Details Refer to Sheet No. E.10

56

MILT AND BRUCE WILLEMS

55

LOREN D. & NANCY B. GORDON

Rutland TWP. T-89N R-43W SEC. 36

10630

10635

10640

10645

804+25 ℄65′

803+00 ℄39′±ExR/W

STA. 804+00.00 BEGIN CONSTRUCTION

807+90 ℄85′

810+00 ℄135′

812+42±ExR/W ℄135′

817+19±PropR/W ℄255′

820+00 ℄255′

822+75 ℄70′

824+65 ℄39′±ExR/W

STA. 824+25.00 END CONSTRUCTION

POT Sta 800+00.00

Tape "C" End L.t. Sta 803+23.58

POT Sta 803+25.15

PI Sta 807+29.98

PI Sta 809+01.02

PI Sta 812+24.09

PI Sta 813+42.38

PI Sta 814+57.77

PI Sta 816+04.30

PI Sta 821+64.84

800

810

815

820

825

MINNESOTA AVE.

803+00 ℄41′±ExR/W

803+90 ℄70′

808+50 ℄90′

809+70 ℄185′

811+46±PropR/W ℄185′

0 FEET 100

(Closed)

817+18±PropR/W ℄175′

824+65 ℄41′±ExR/W

823+00 ℄90′

MINNESOTA AVENUE

ACQUIRE ACCESS CONTROL ON S.R. FROM 812+25.2TO 816+59.2

ACQUIRE ACCESS CONTROL ON S.R. FROM 812+25.2TO 816+59.2

58

DARWIN D. SHEVER

57

LEWIS & JANET BYERS

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER HE.8

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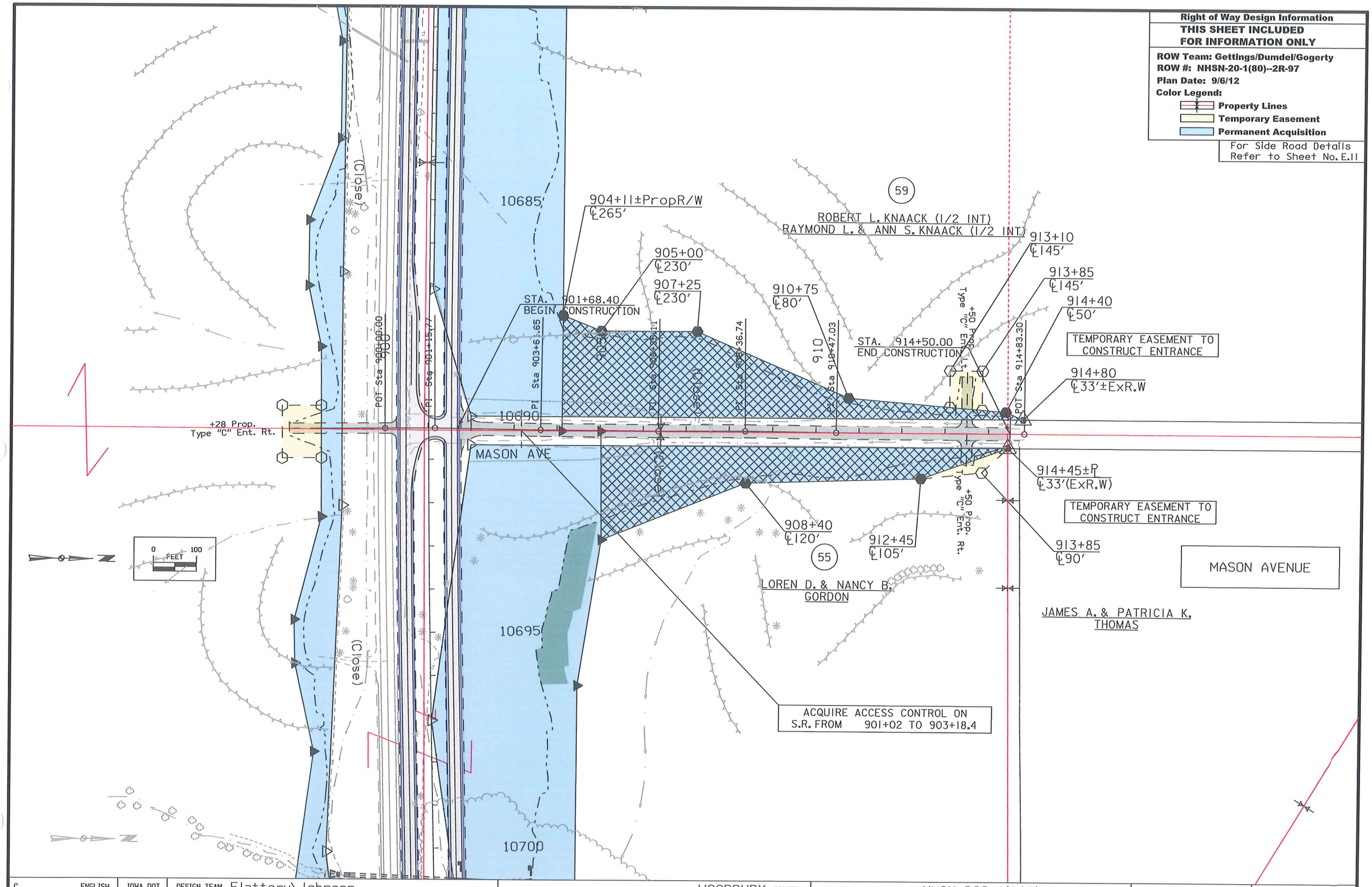
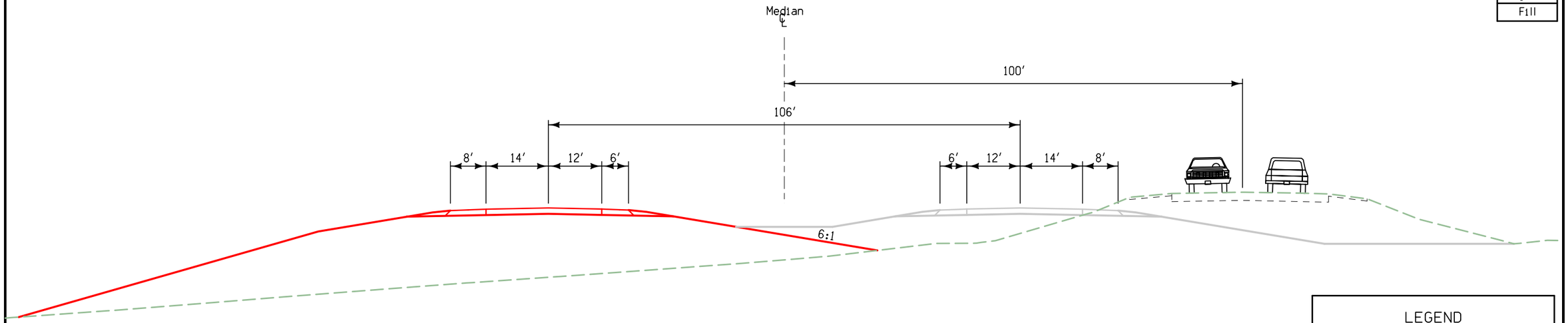


C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER HE.9

7:10:06 AM 10/15/2012 smcclan W:\Projects2\97020050A98\ROW\97020080he1.dgn

Stage 1&2
Fill

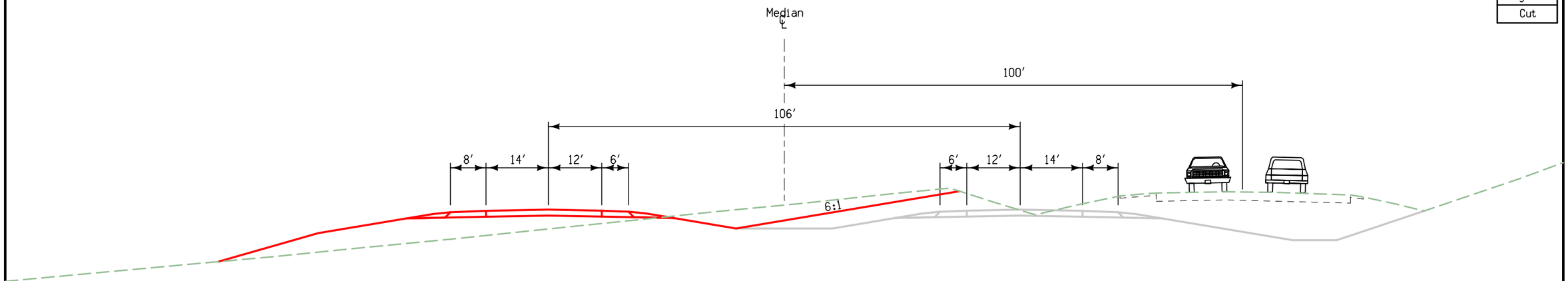


LEGEND

- STAGE 1&2 CONSTRUCTION
- FUTURE CONSTRUCTION
- EXISTING GROUND
- EXISTING PAVEMENT

STAGE 1&2 (FILL)

Stage 1&2
Cut

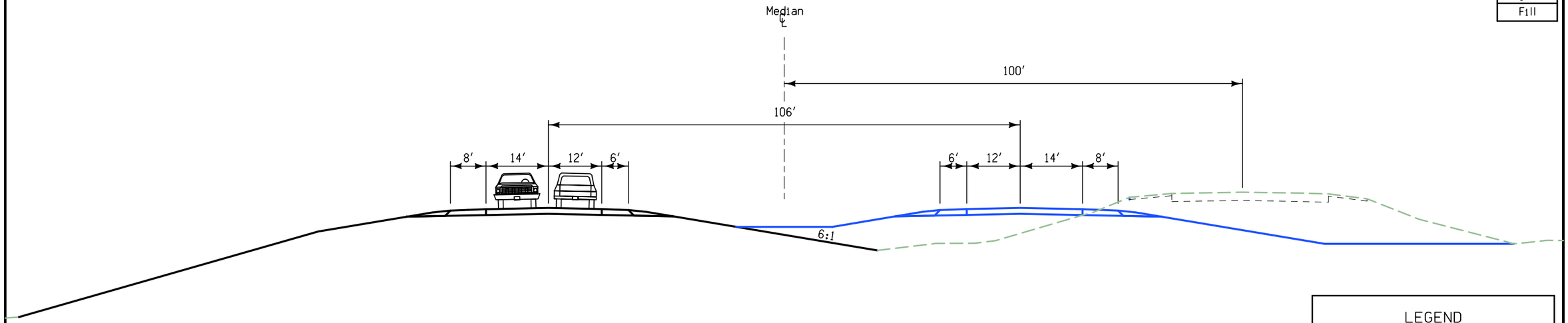


LEGEND

- STAGE 1&2 CONSTRUCTION
- FUTURE CONSTRUCTION
- EXISTING GROUND
- EXISTING PAVEMENT

STAGE 1&2 (CUT)

Stage 3&4
Fill

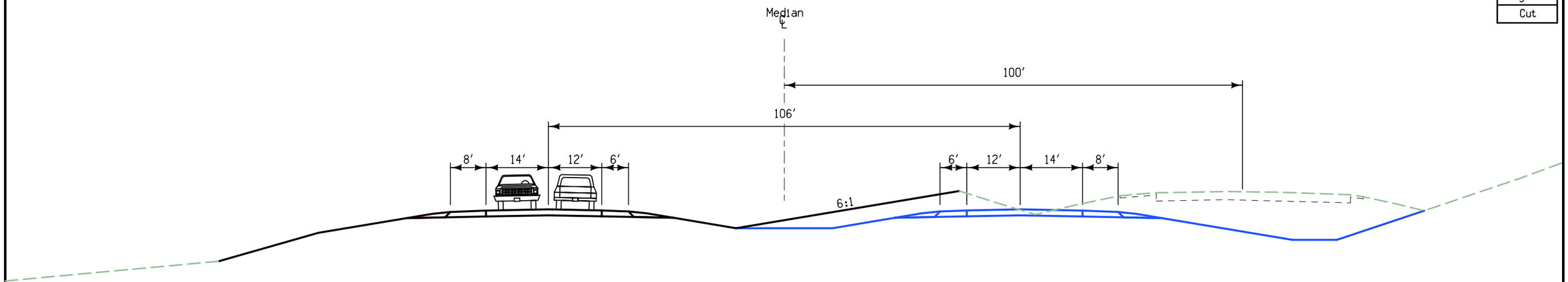


LEGEND

- STAGE 3&4 CONSTRUCTION
- COMPLETED CONSTRUCTION
- EXISTING GROUND
- EXISTING PAVEMENT

STAGE 3&4 (FILL)

Stage 3&4
Cut

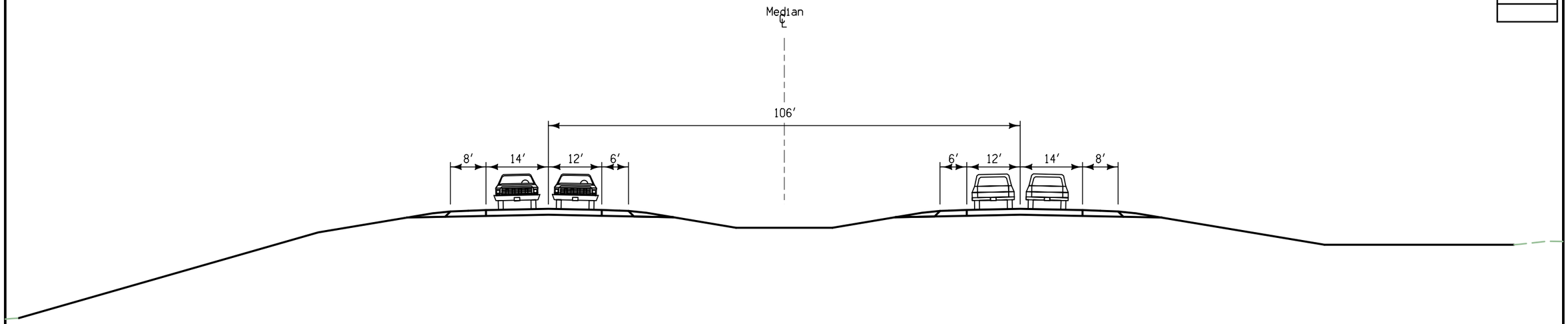


LEGEND

- STAGE 3&4 CONSTRUCTION
- COMPLETED CONSTRUCTION
- EXISTING GROUND
- EXISTING PAVEMENT

STAGE 3&4 (CUT)

Final



FINAL

LEGEND

COMPLETED CONSTRUCTION

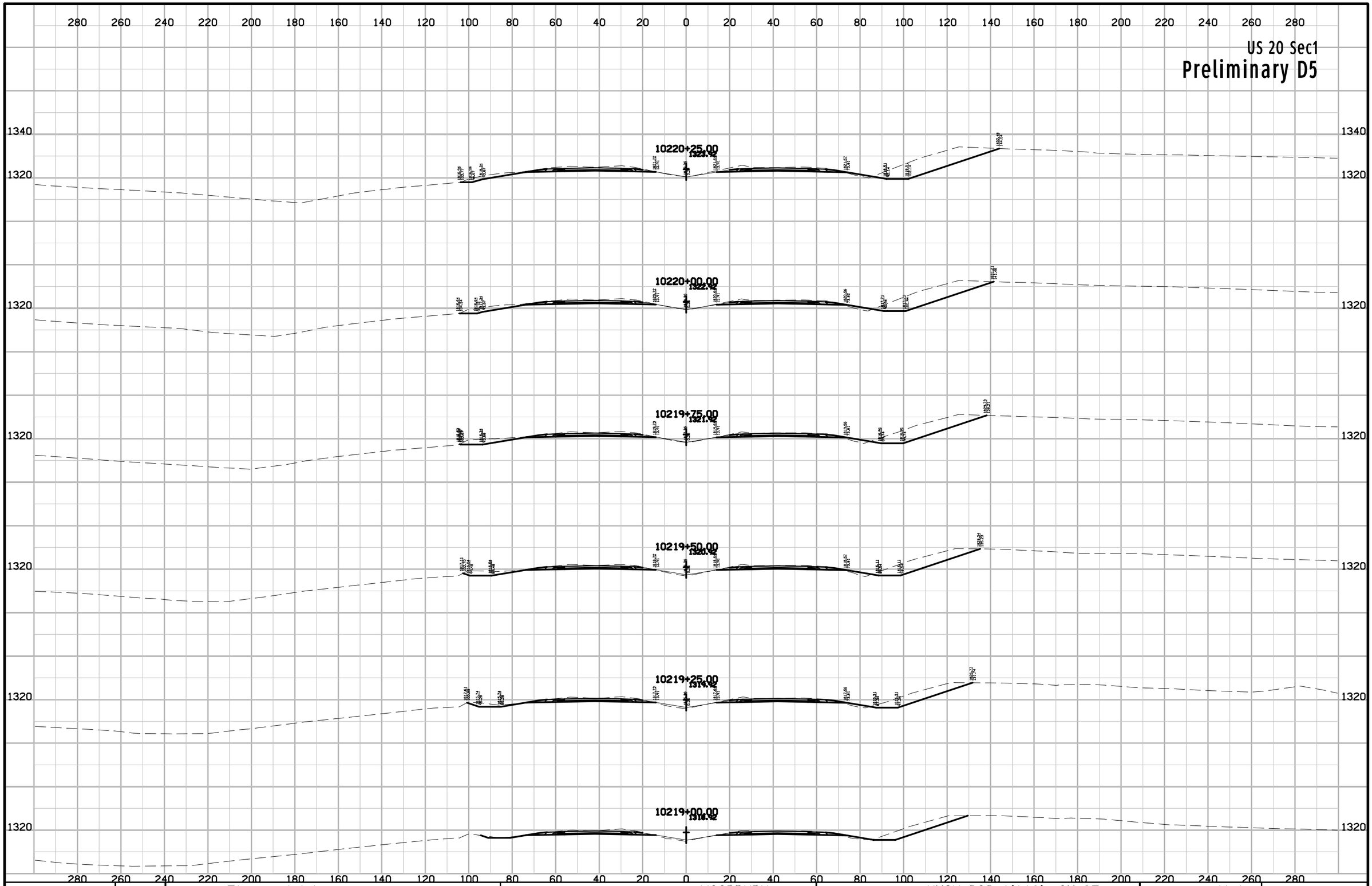
EXISTING GROUND

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER J.3

8:29:48 AM 5/15/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077J.sht

US 20 Sec1

Preliminary D5



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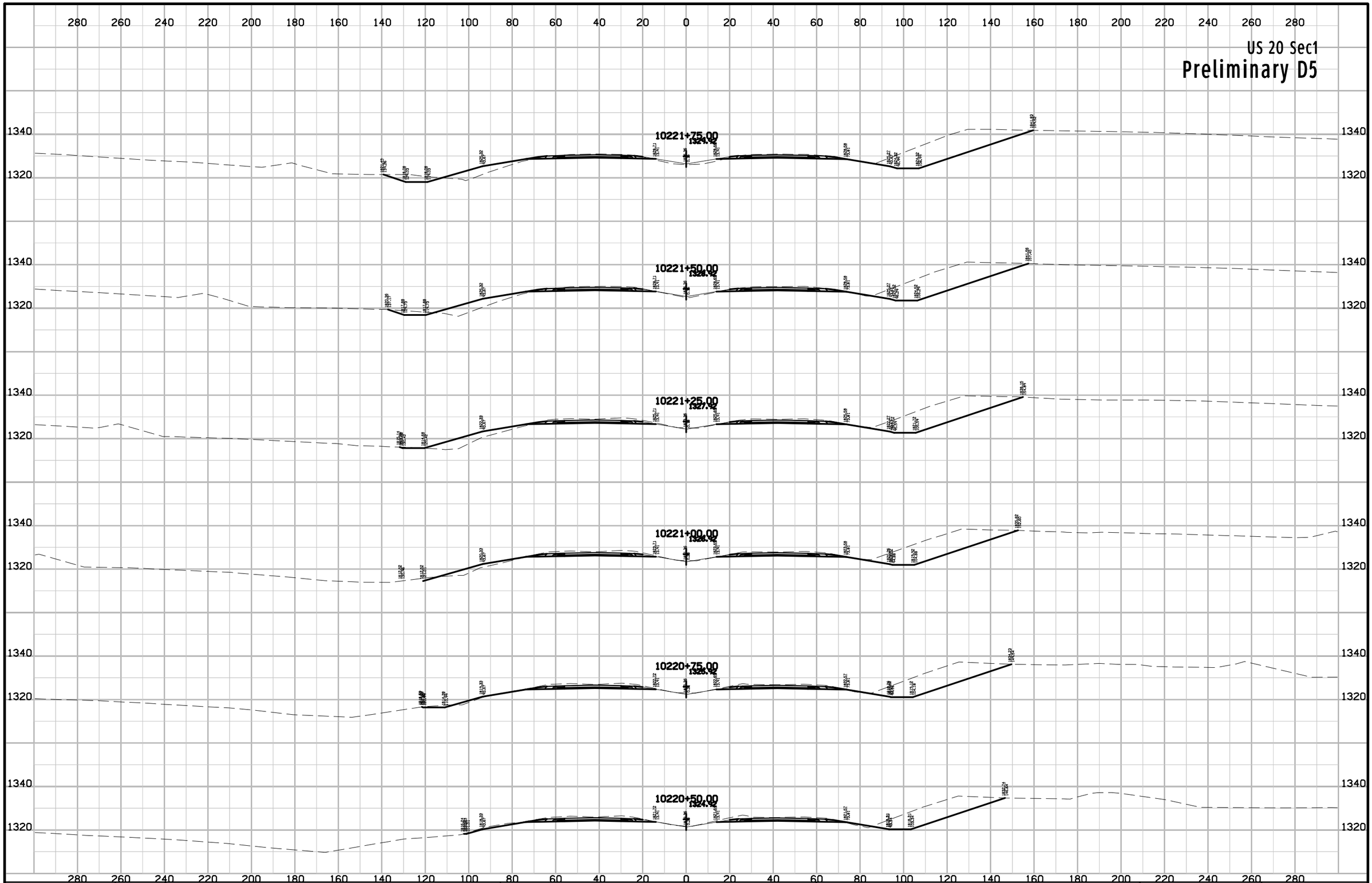
US 20 Sec1

Preliminary D5



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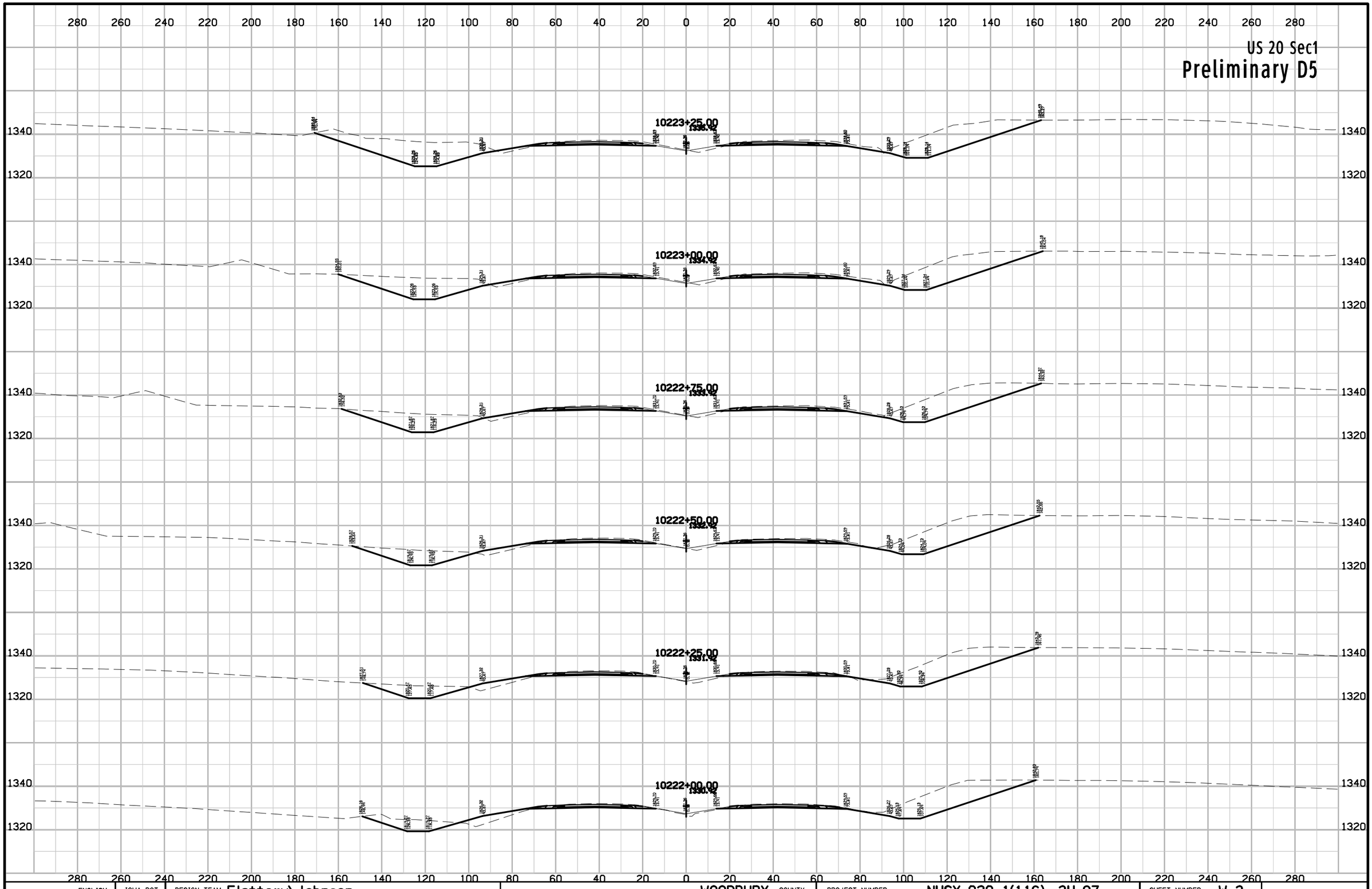
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.3

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US 20 Sec1

Preliminary D5

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10224+50.00
1340.42

10224+25.00
1339.42

10224+00.00
1338.42

10223+75.00
1337.42

10223+50.00
1336.42

1340
1320

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.4

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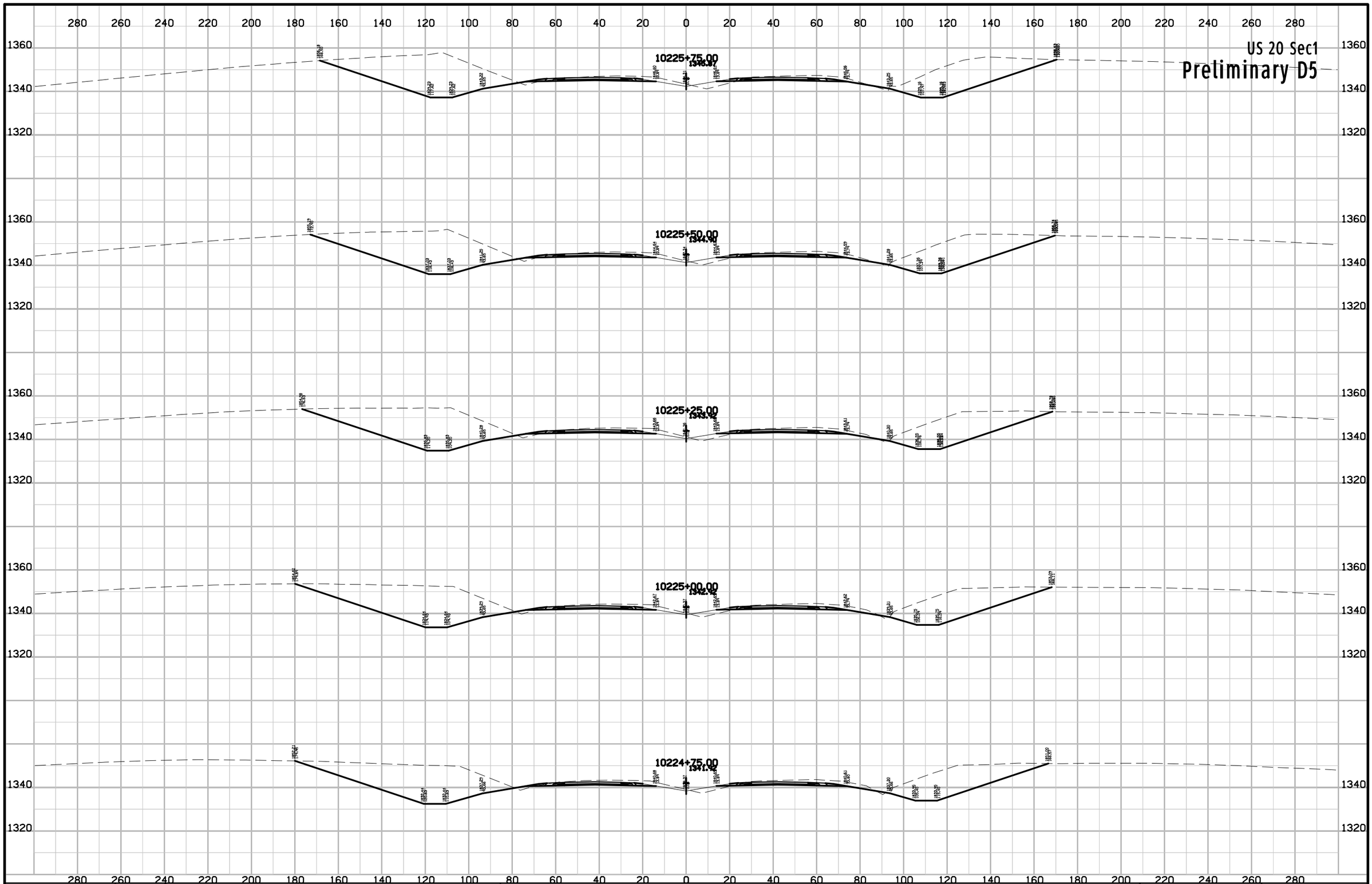
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.5

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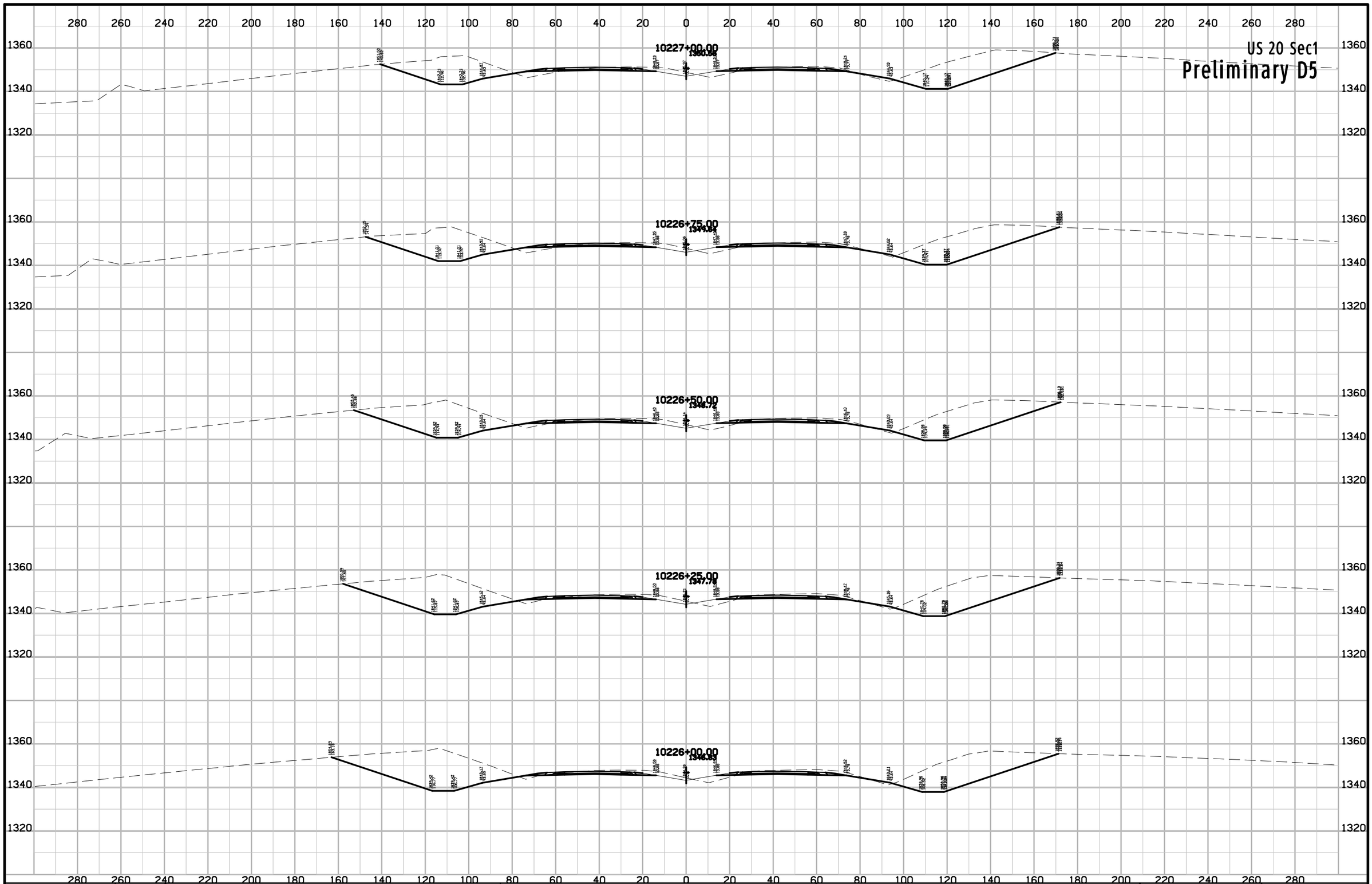
US 20 Sec1

Preliminary D5



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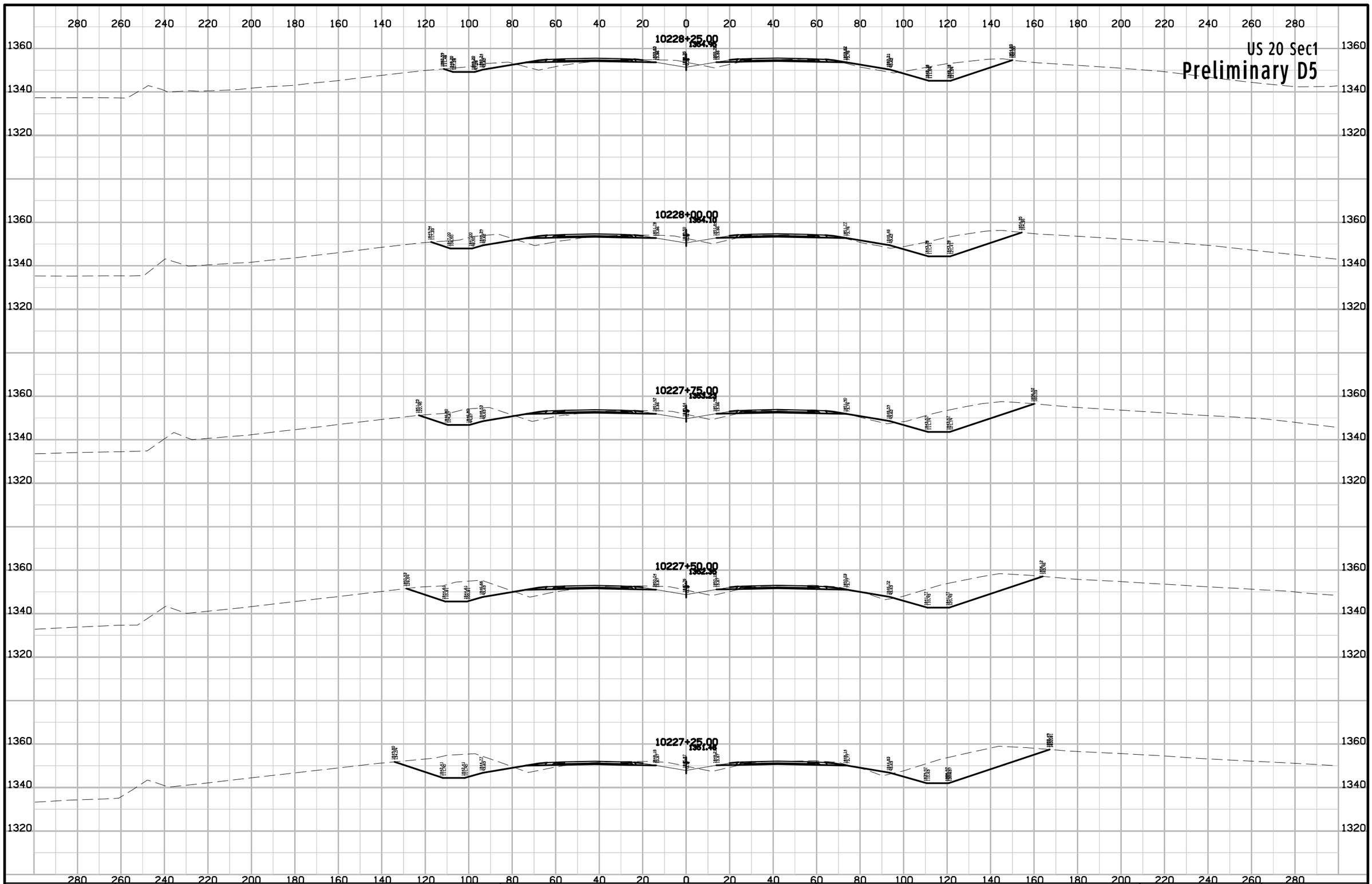
US 20 Sec1

Preliminary D5



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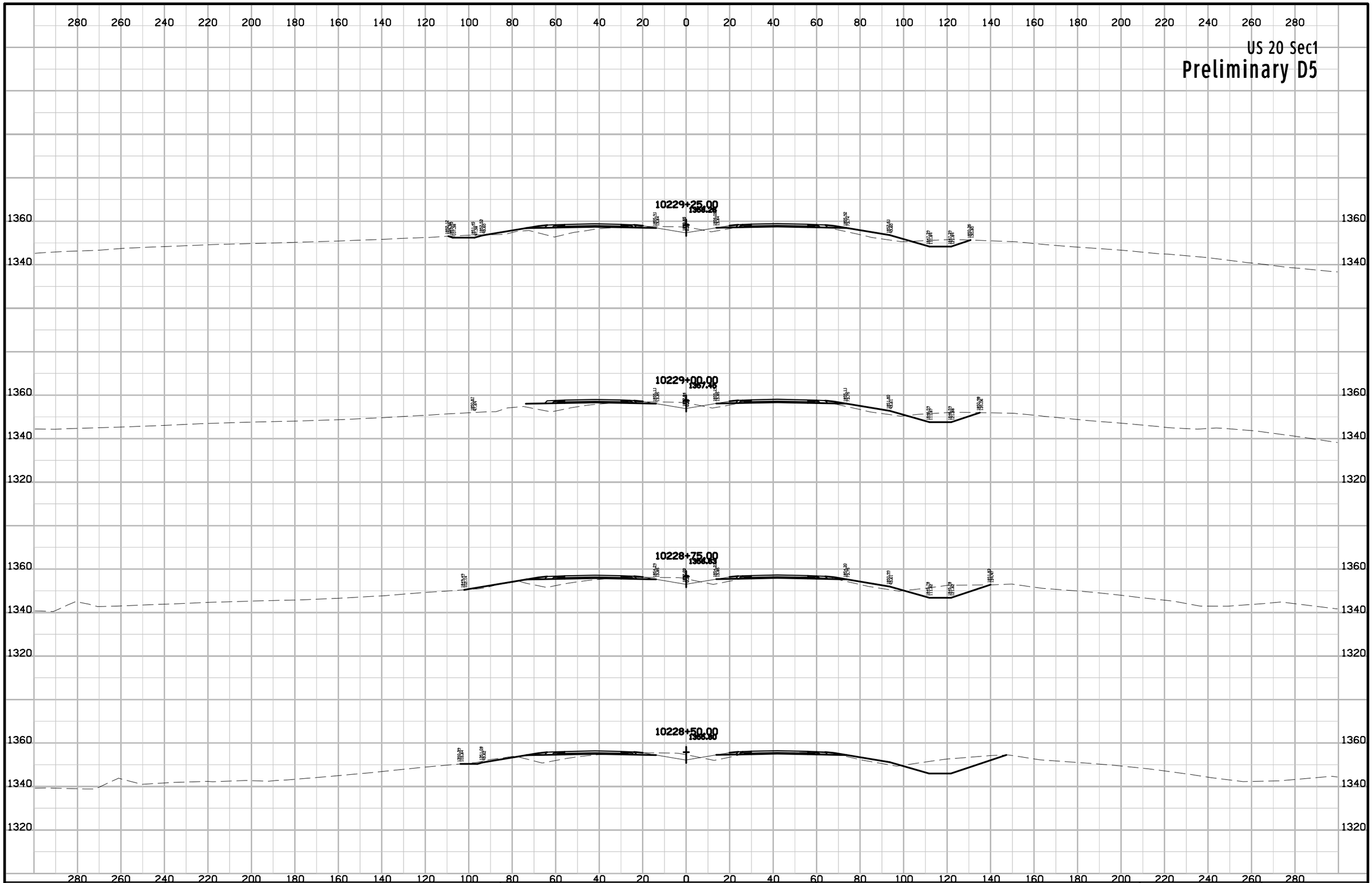
US 20 Sec1

Preliminary D5



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US 20 Sec1

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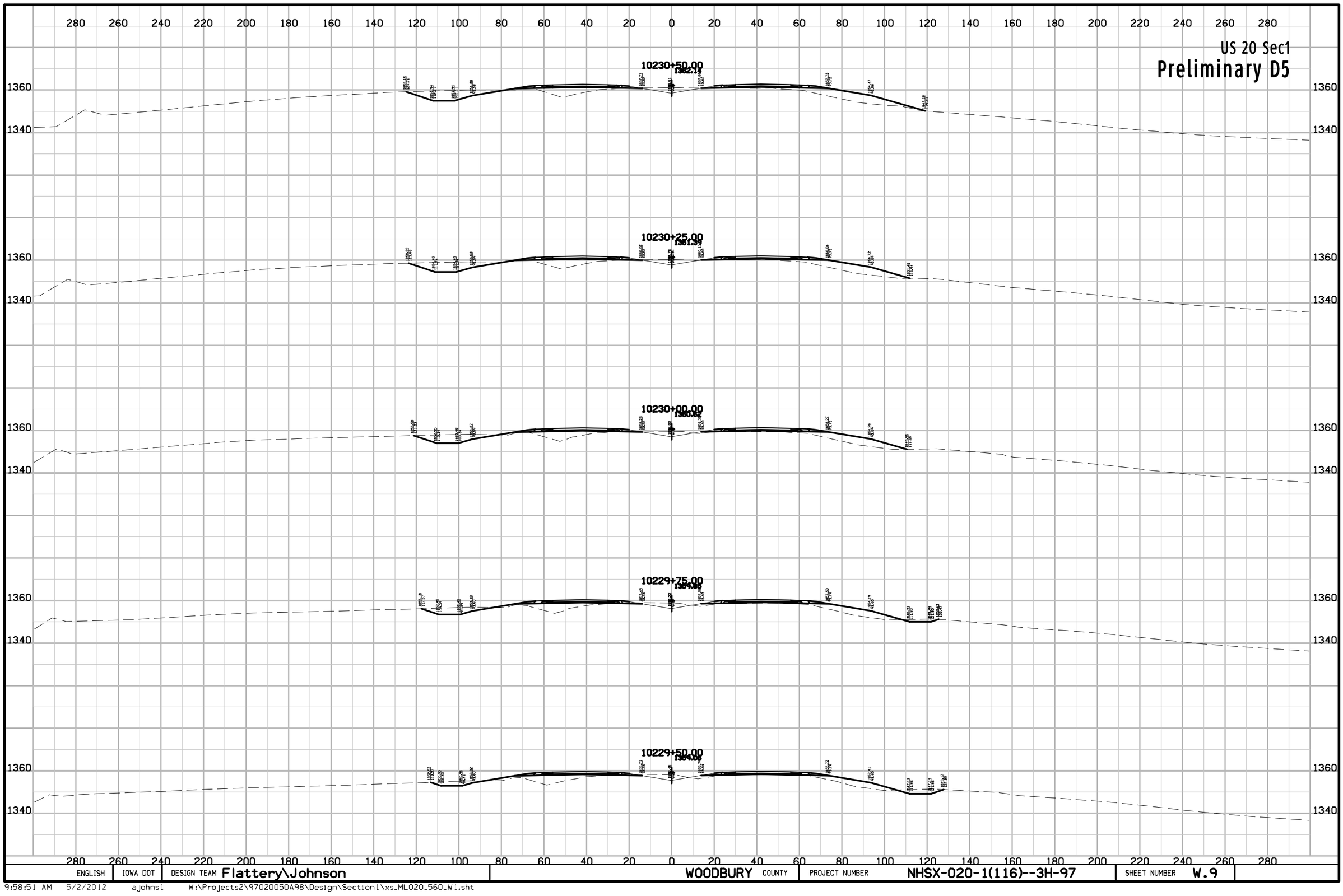

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US 20 Sec1

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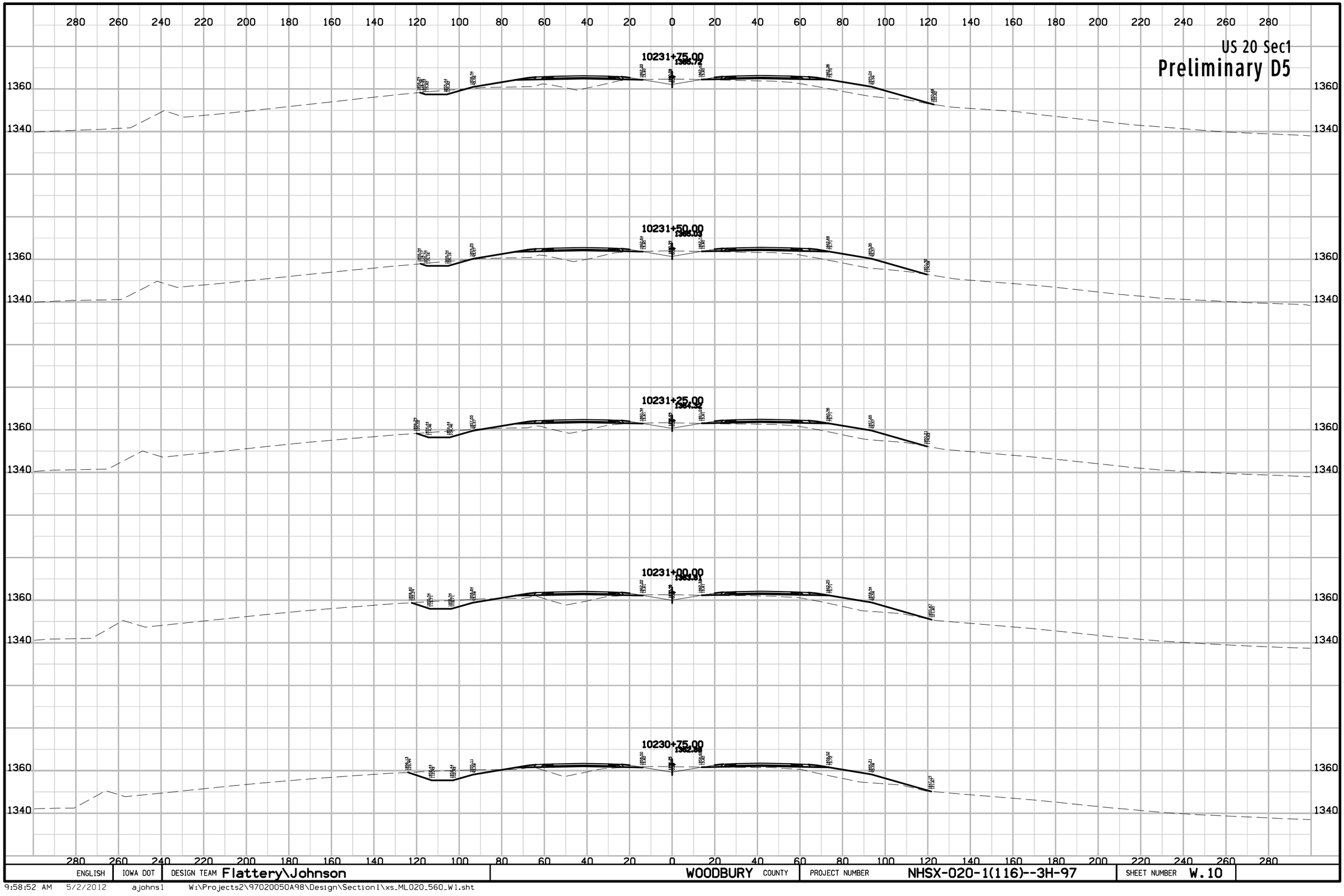

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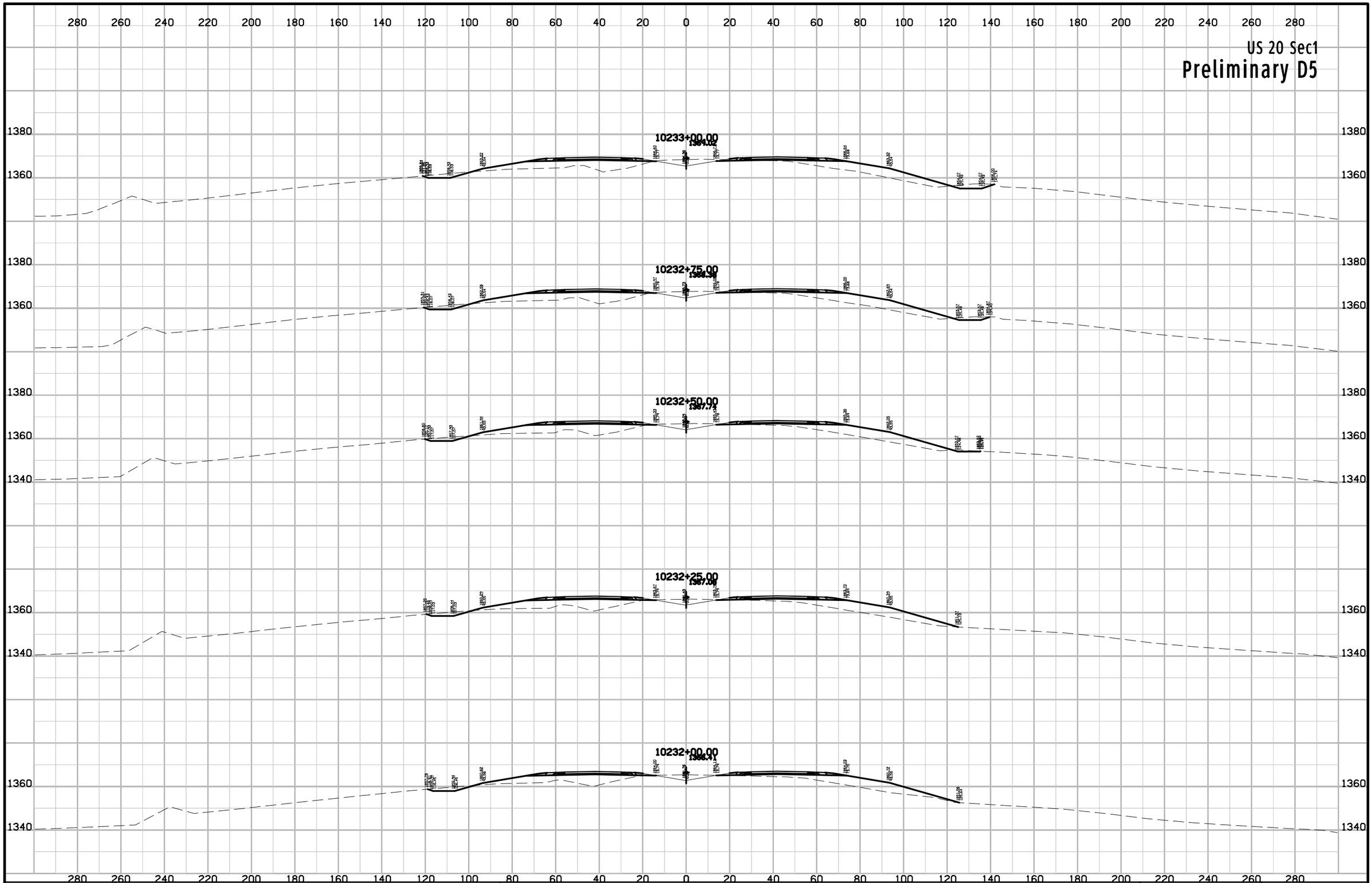
US 20 Sec1

Preliminary D5



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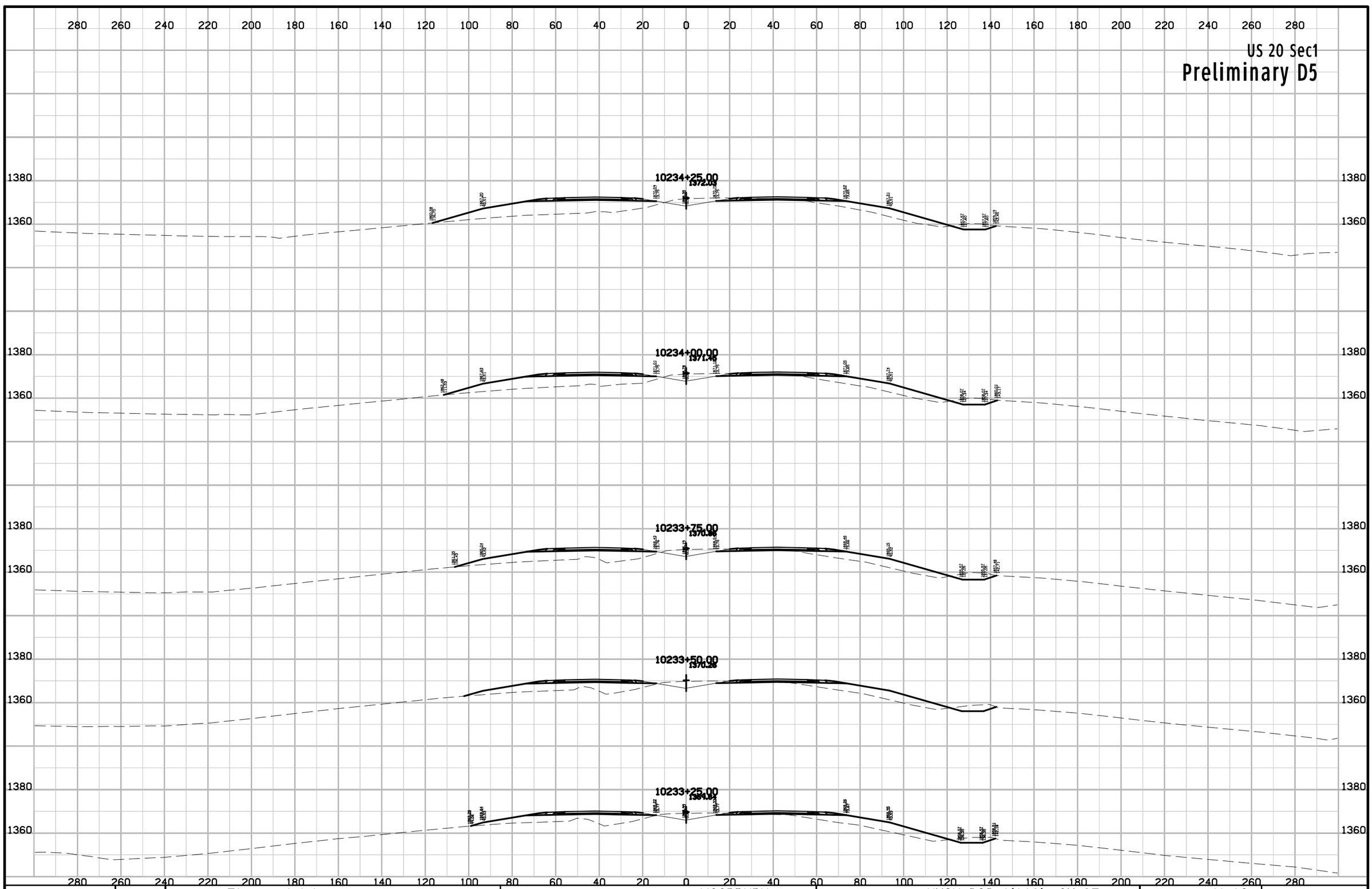
US 20 Sec1

Preliminary D5



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US 20 Sec1

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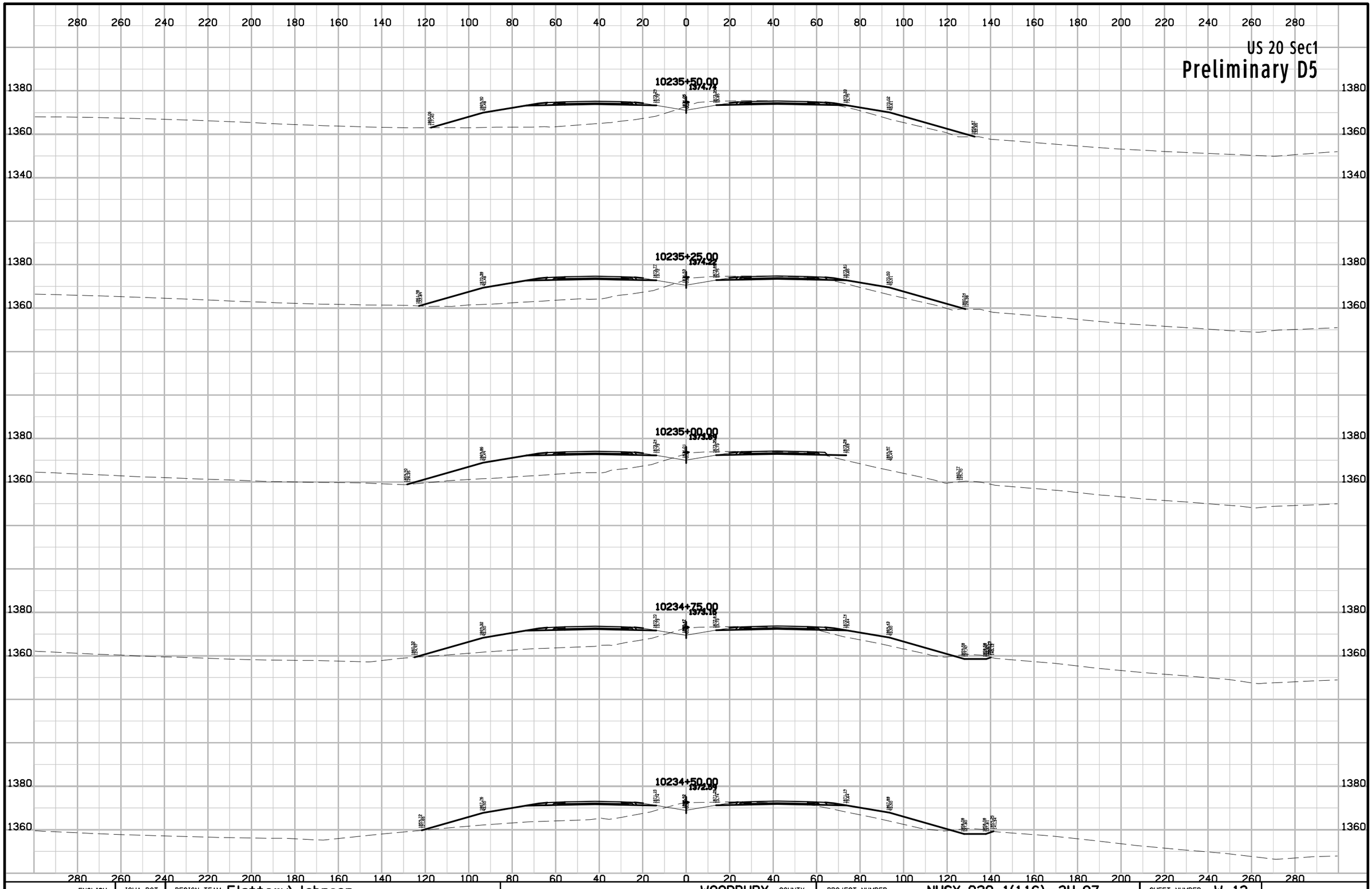

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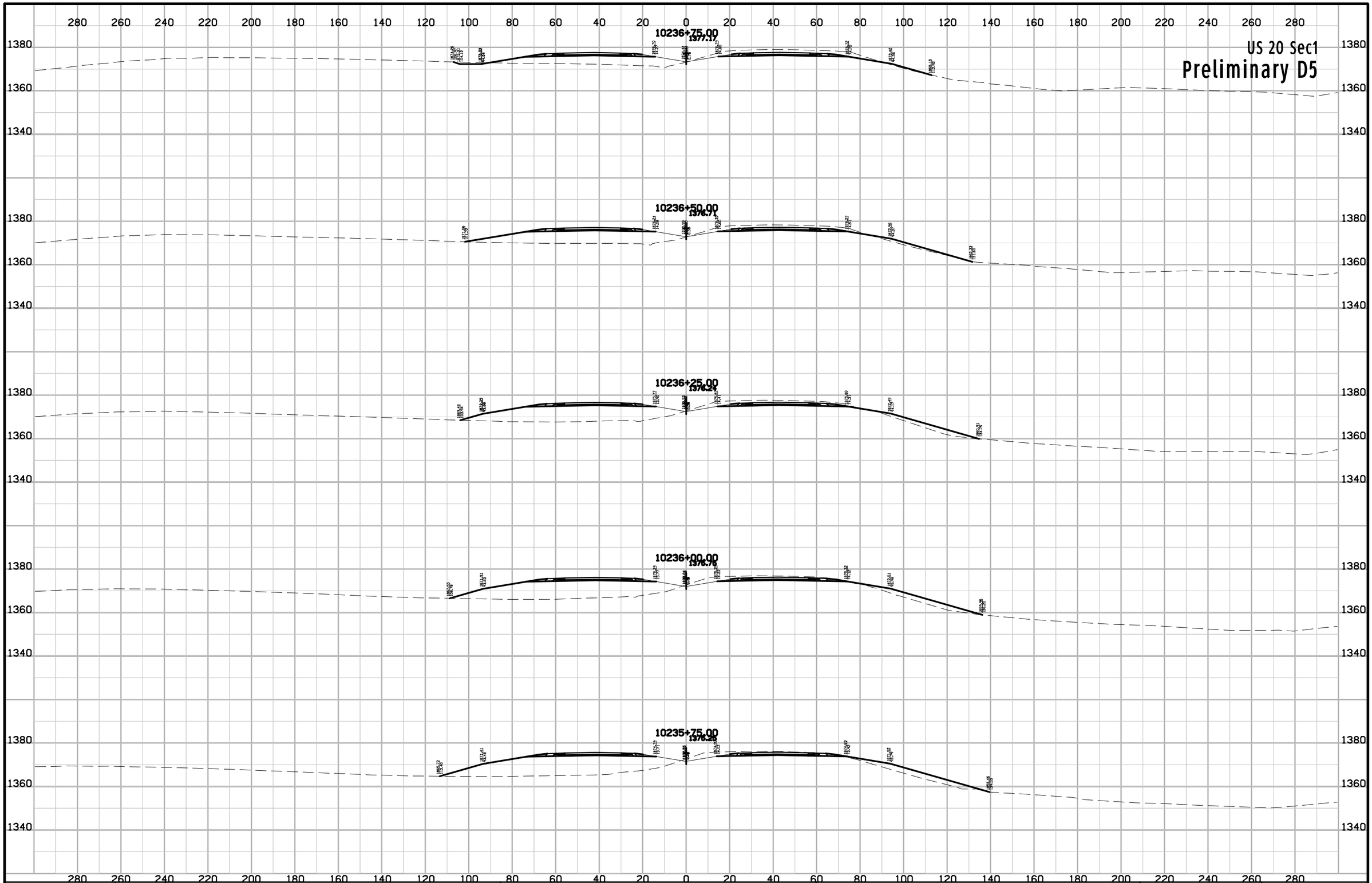
US 20 Sec1

Preliminary D5



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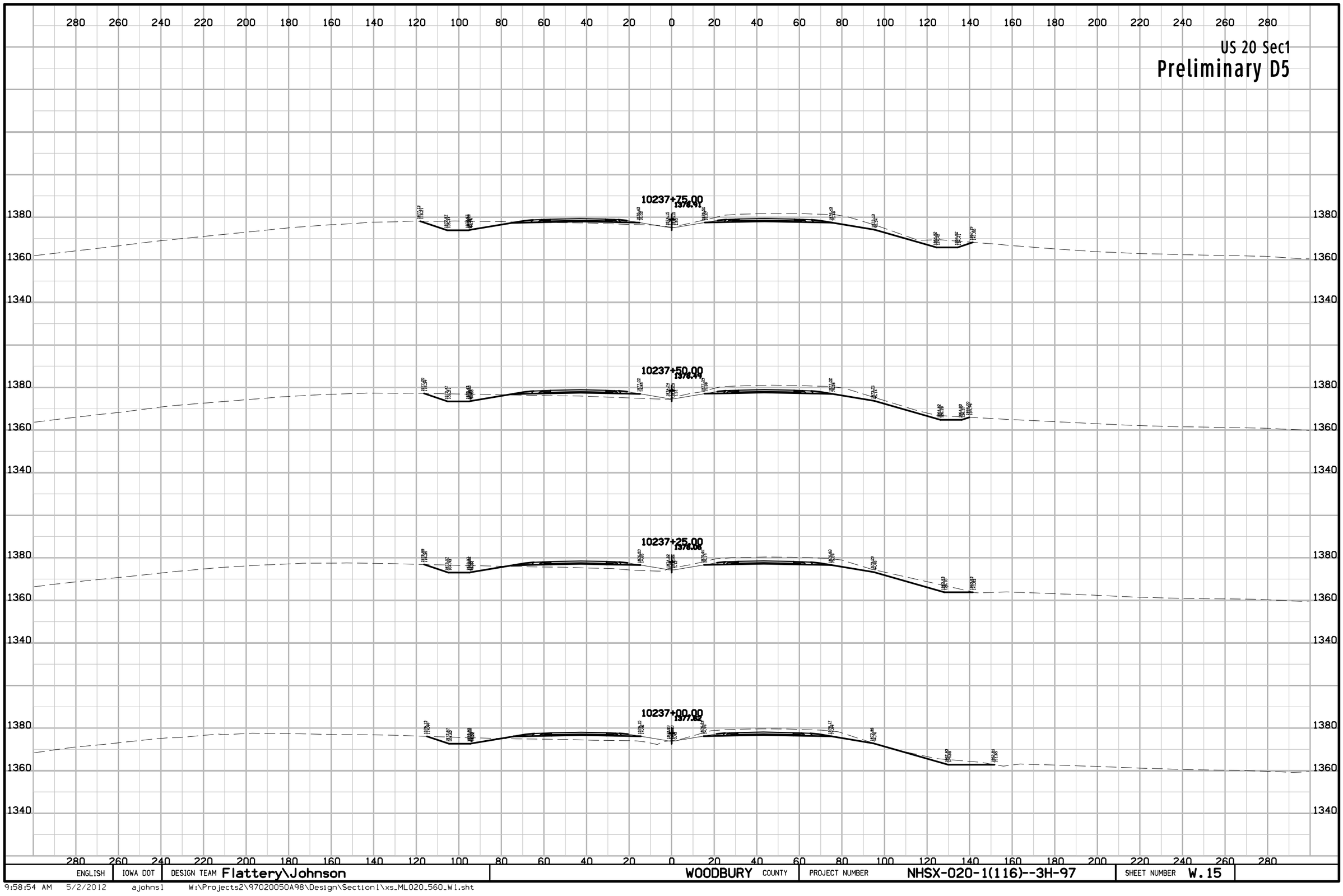
US 20 Sec1

Preliminary D5



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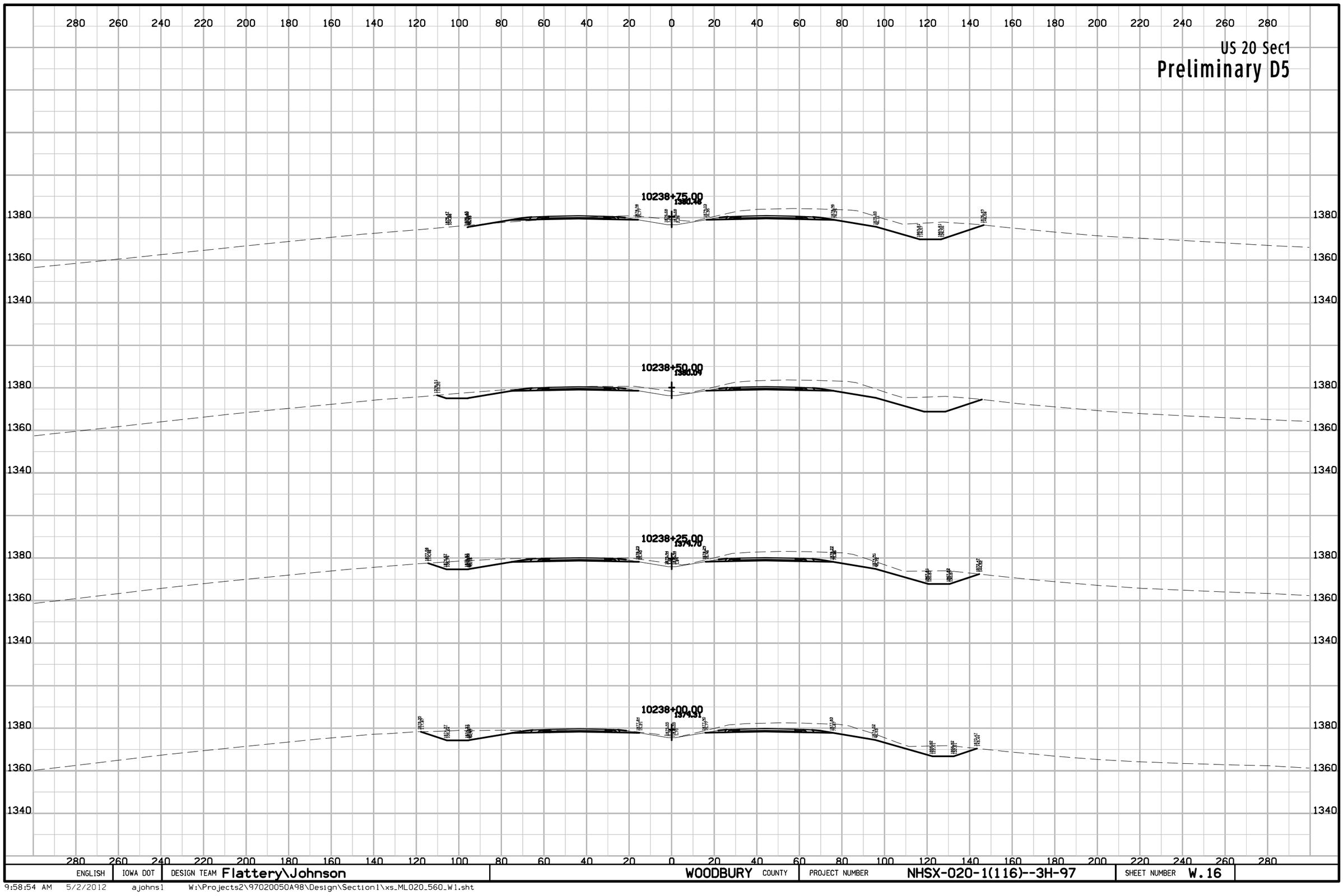
US 20 Sec1

Preliminary D5



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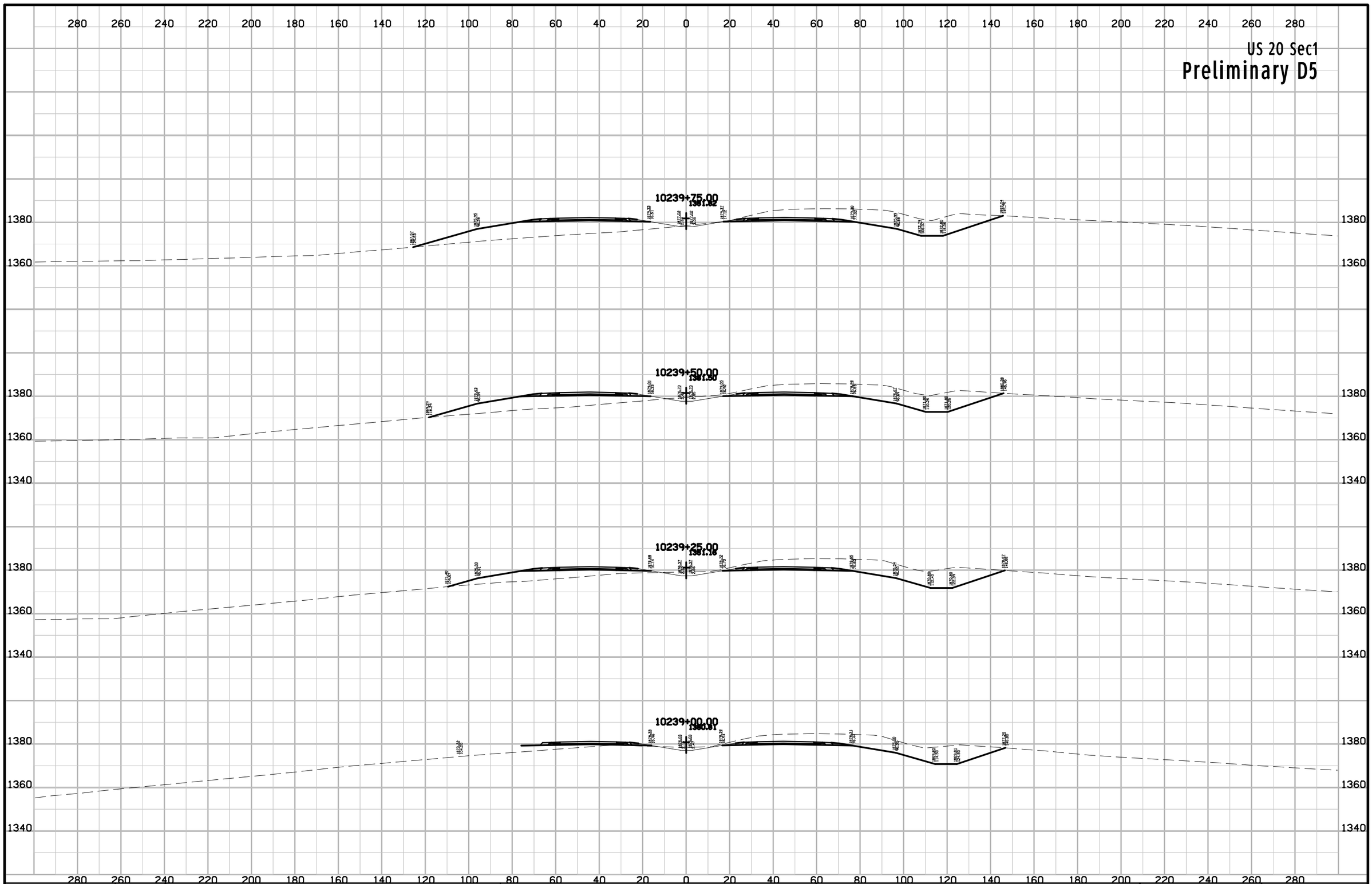
US 20 Sec1

Preliminary D5



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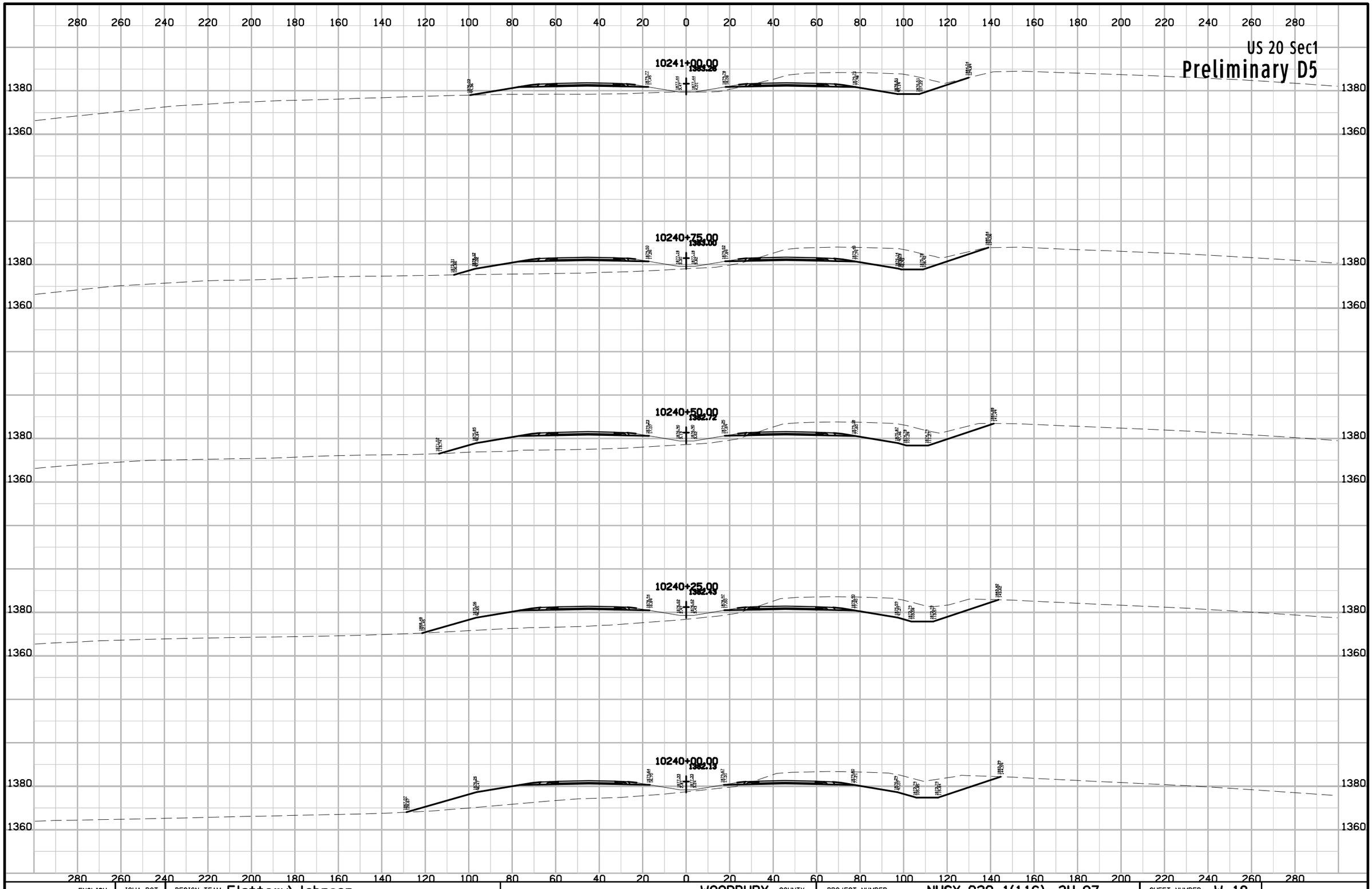
US 20 Sec1

Preliminary D5



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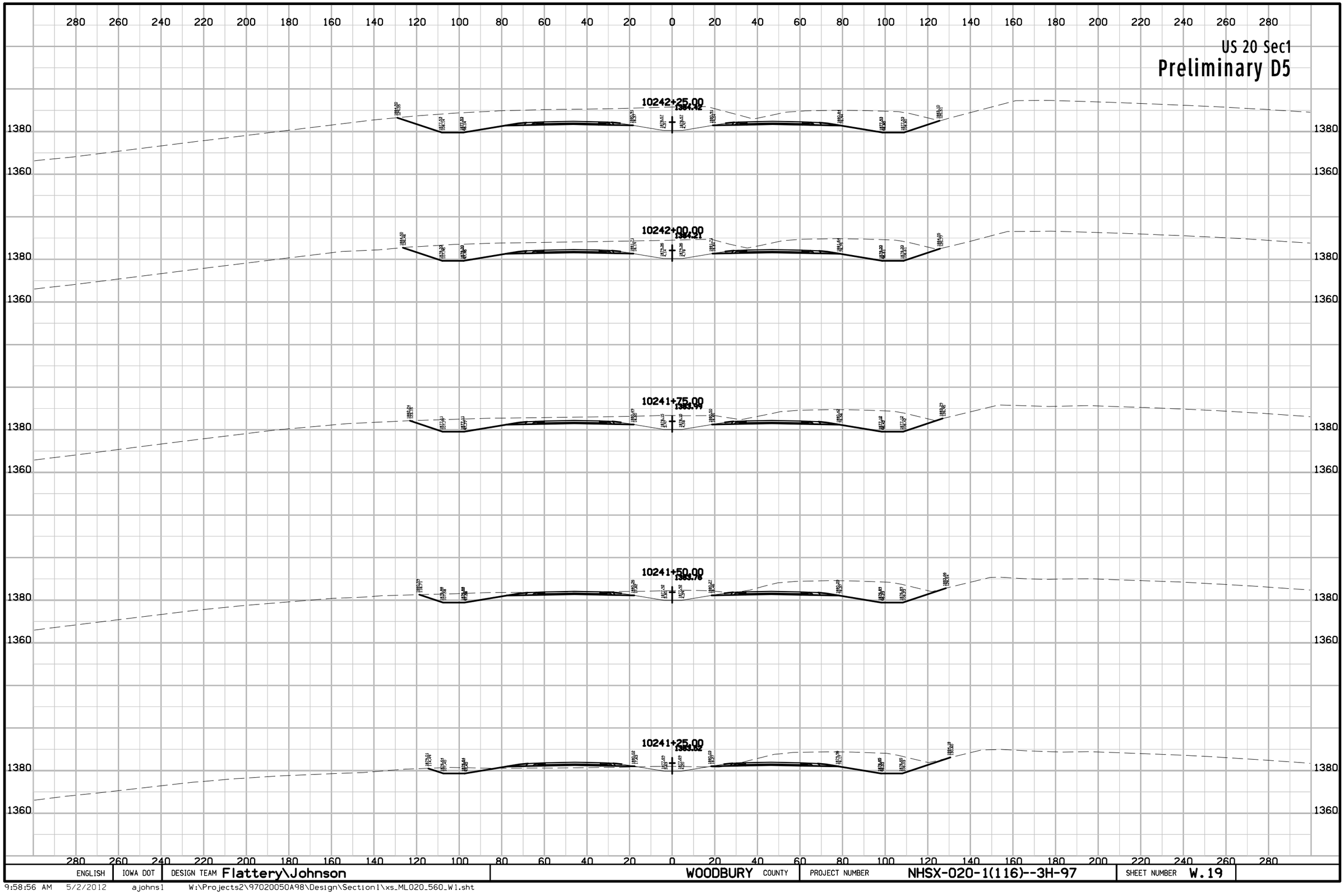
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

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1400
1380

10243+75.00
1386.42

10243+50.00
1386.28

10243+25.00
1386.13

10243+00.00
1384.97

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1384.80

10242+50.00
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ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.20

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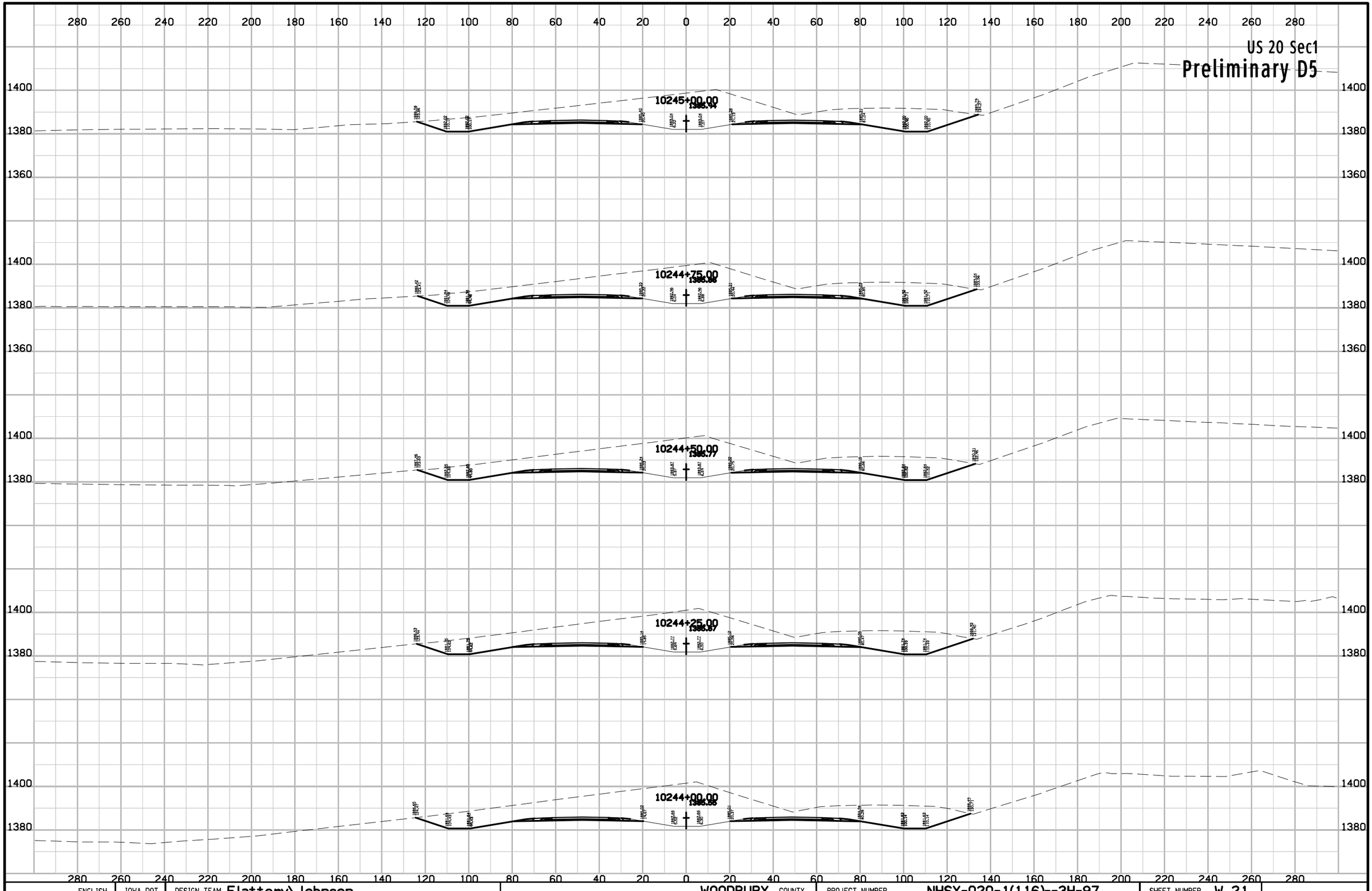
US 20 Sec1

Preliminary D5



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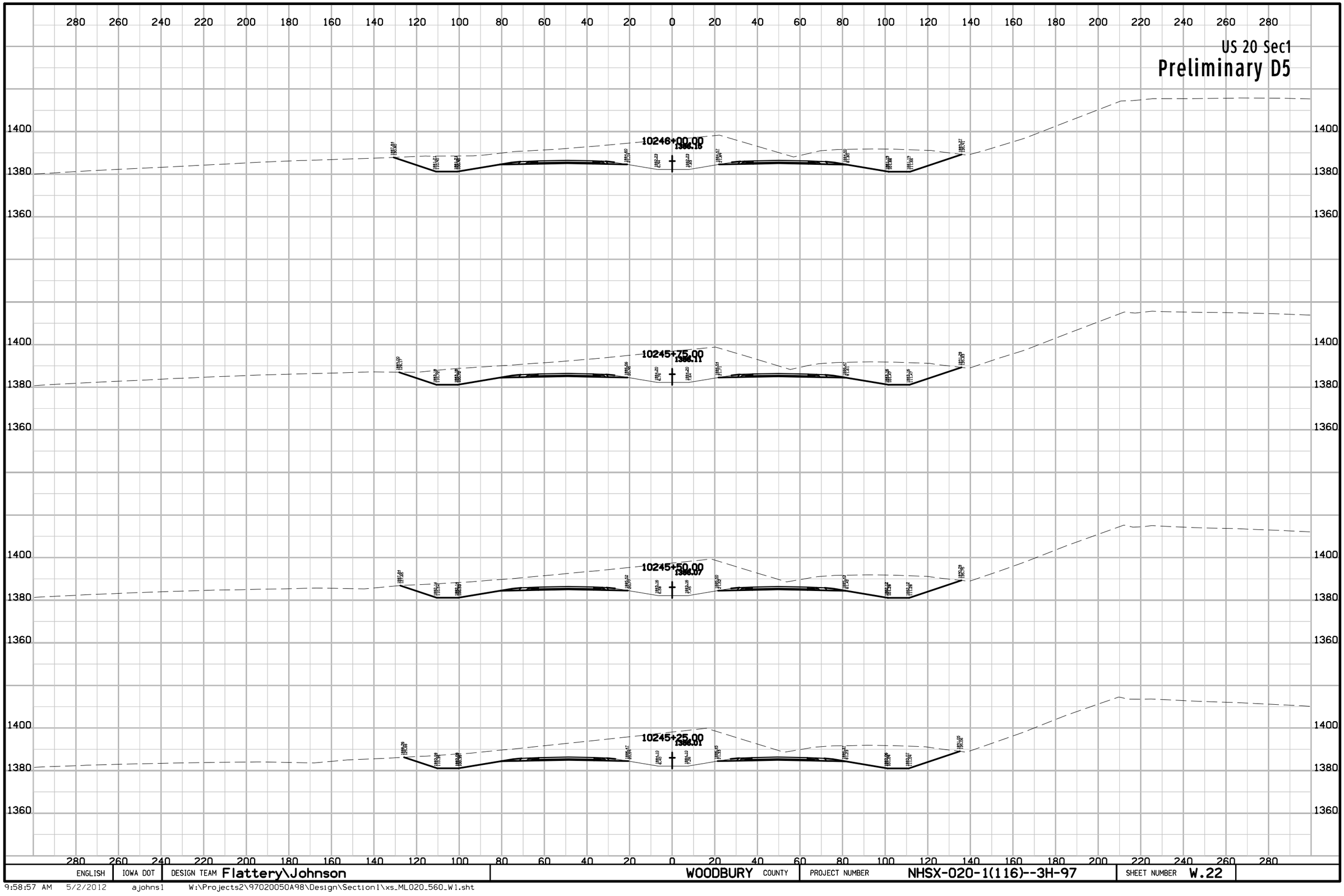
US 20 Sec1

Preliminary D5



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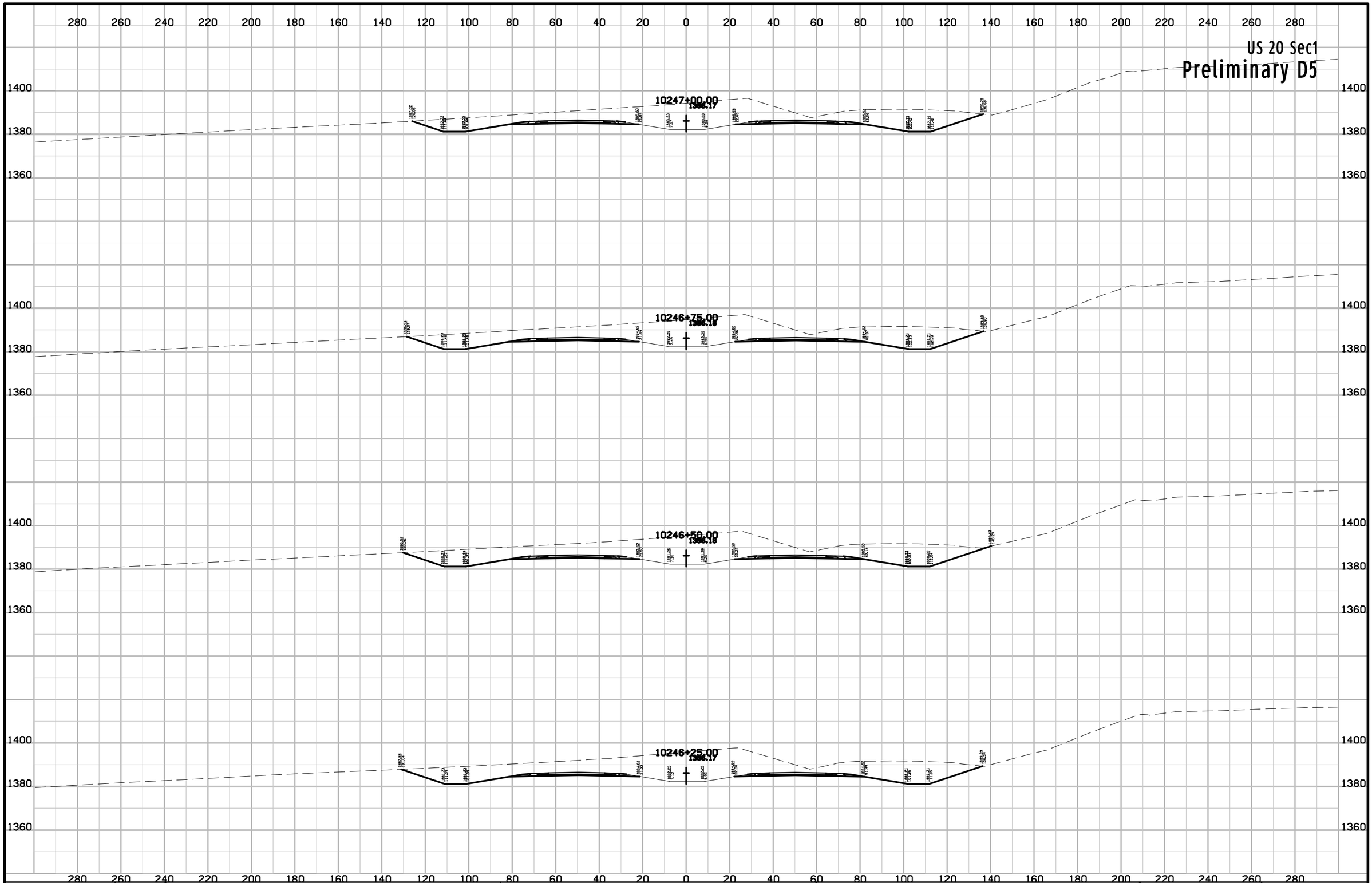
US 20 Sec1

Preliminary D5



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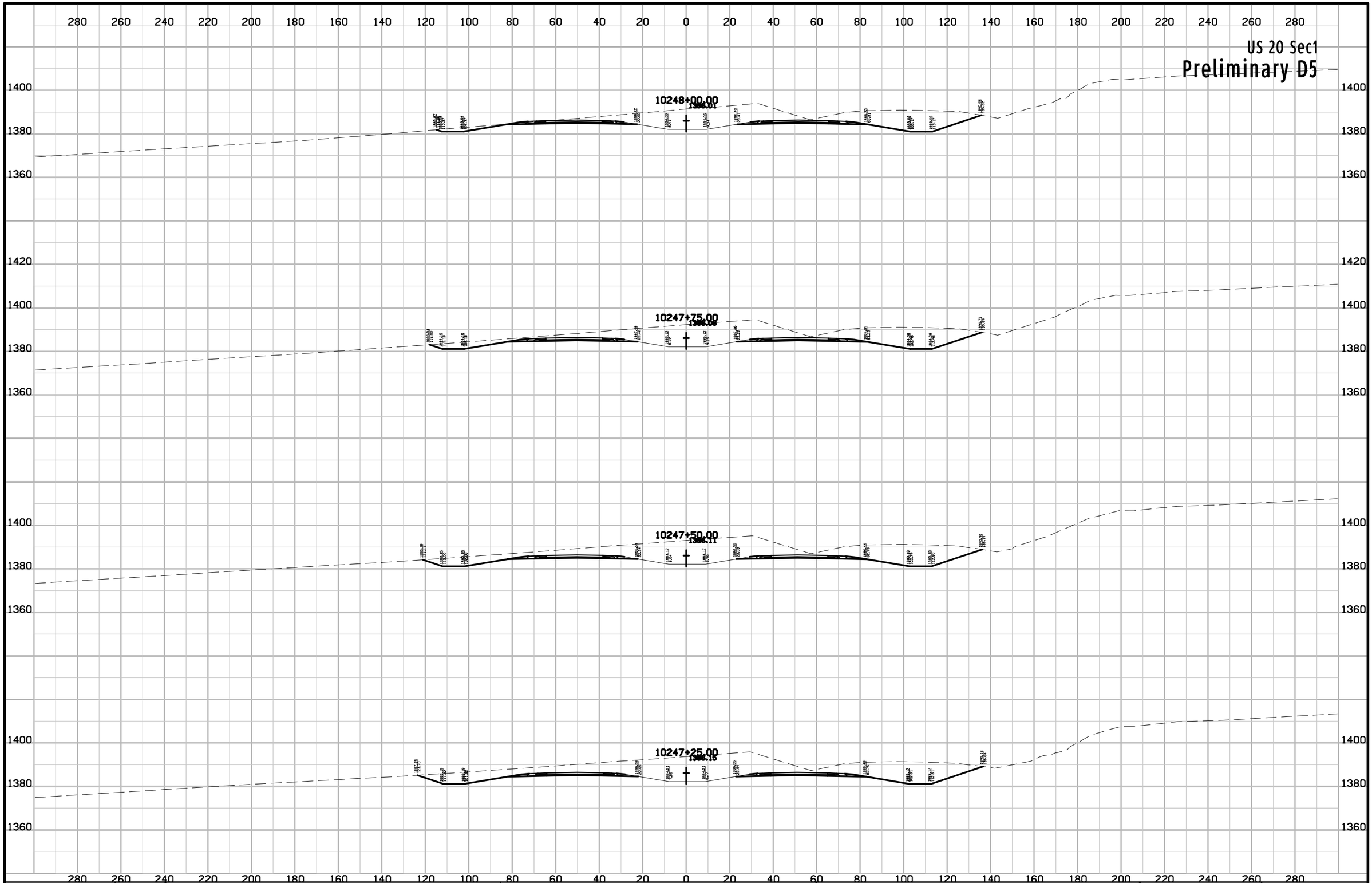
US 20 Sec1

Preliminary D5



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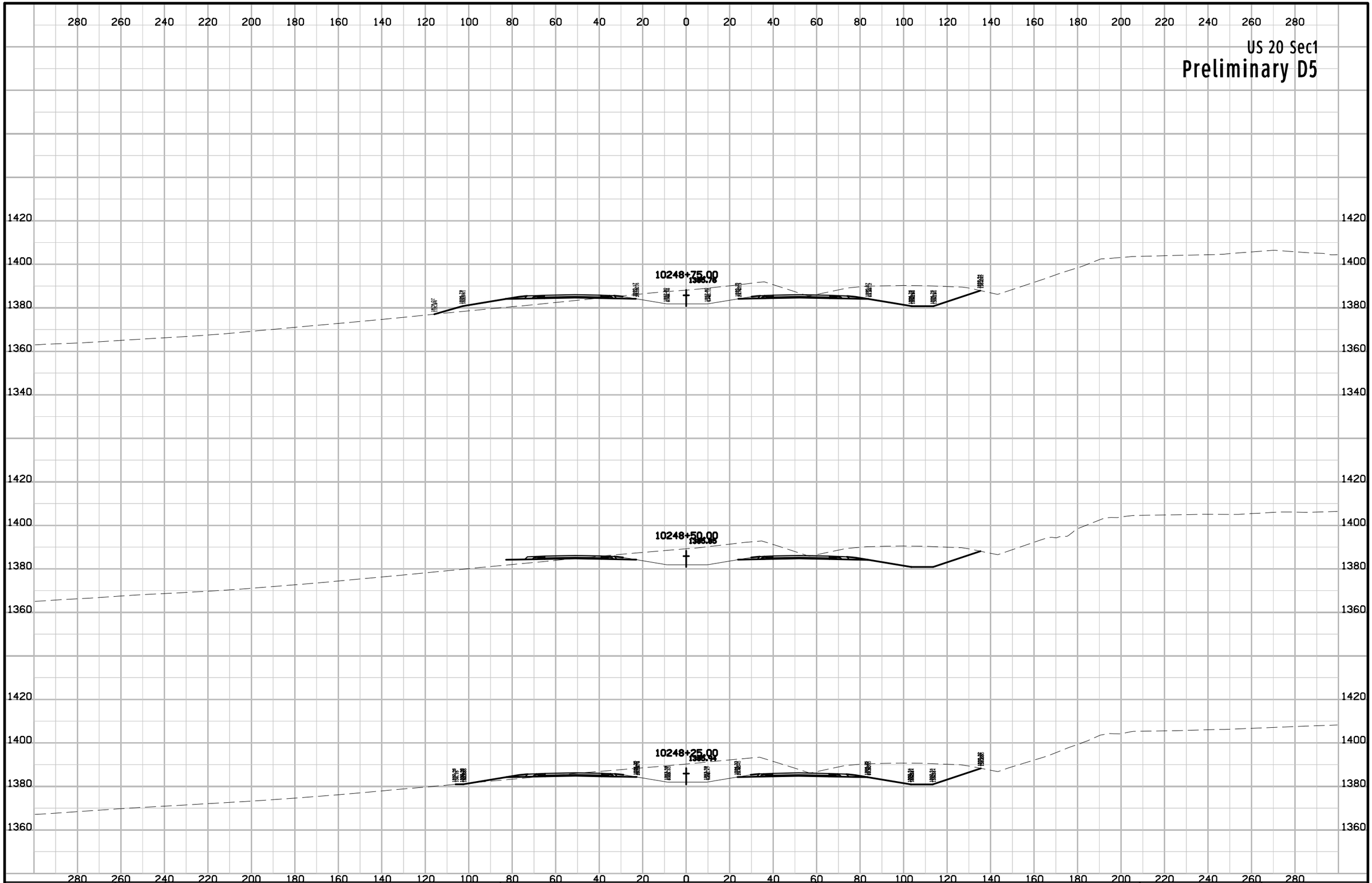
US 20 Sec1

Preliminary D5



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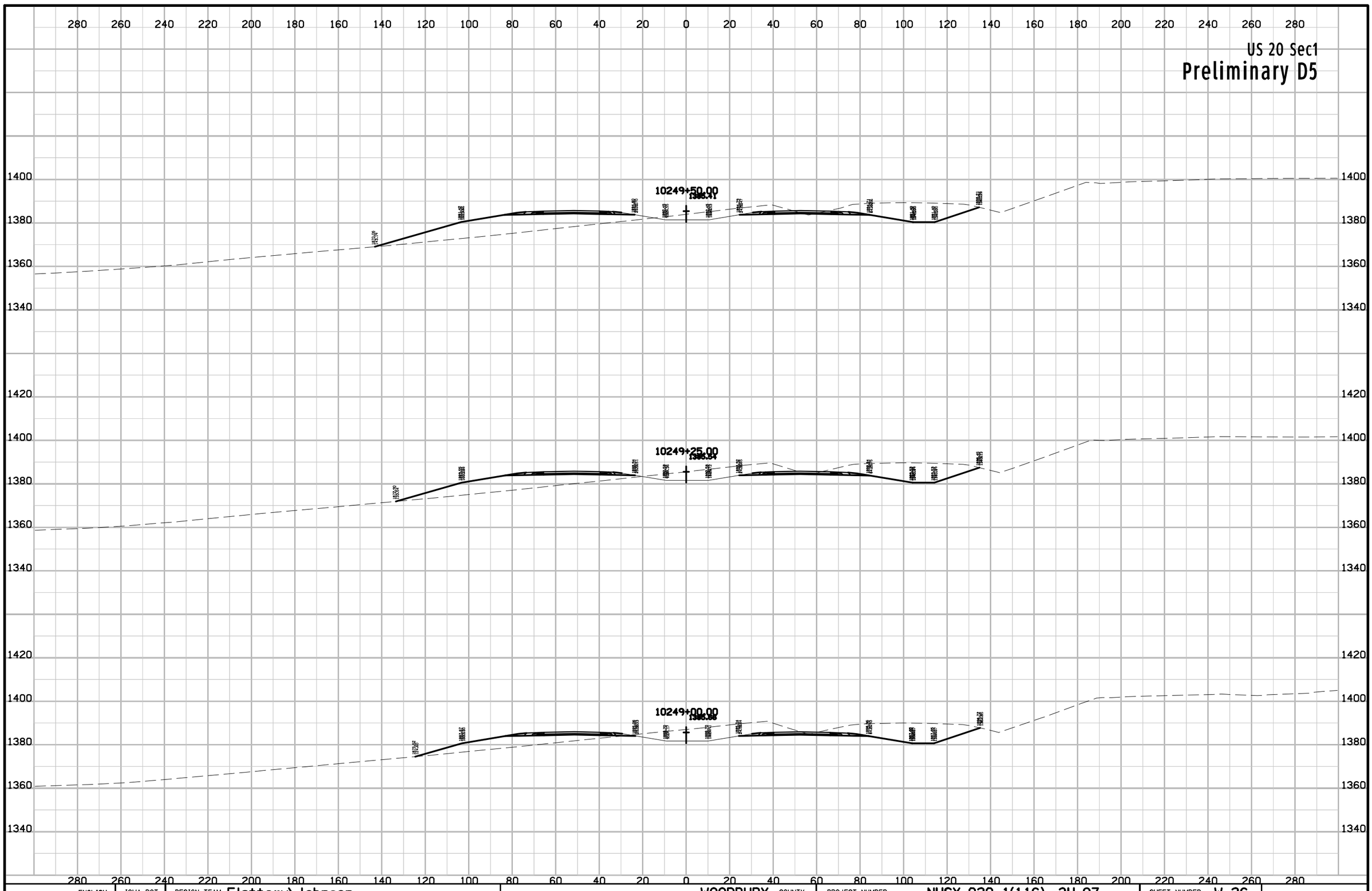
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.26

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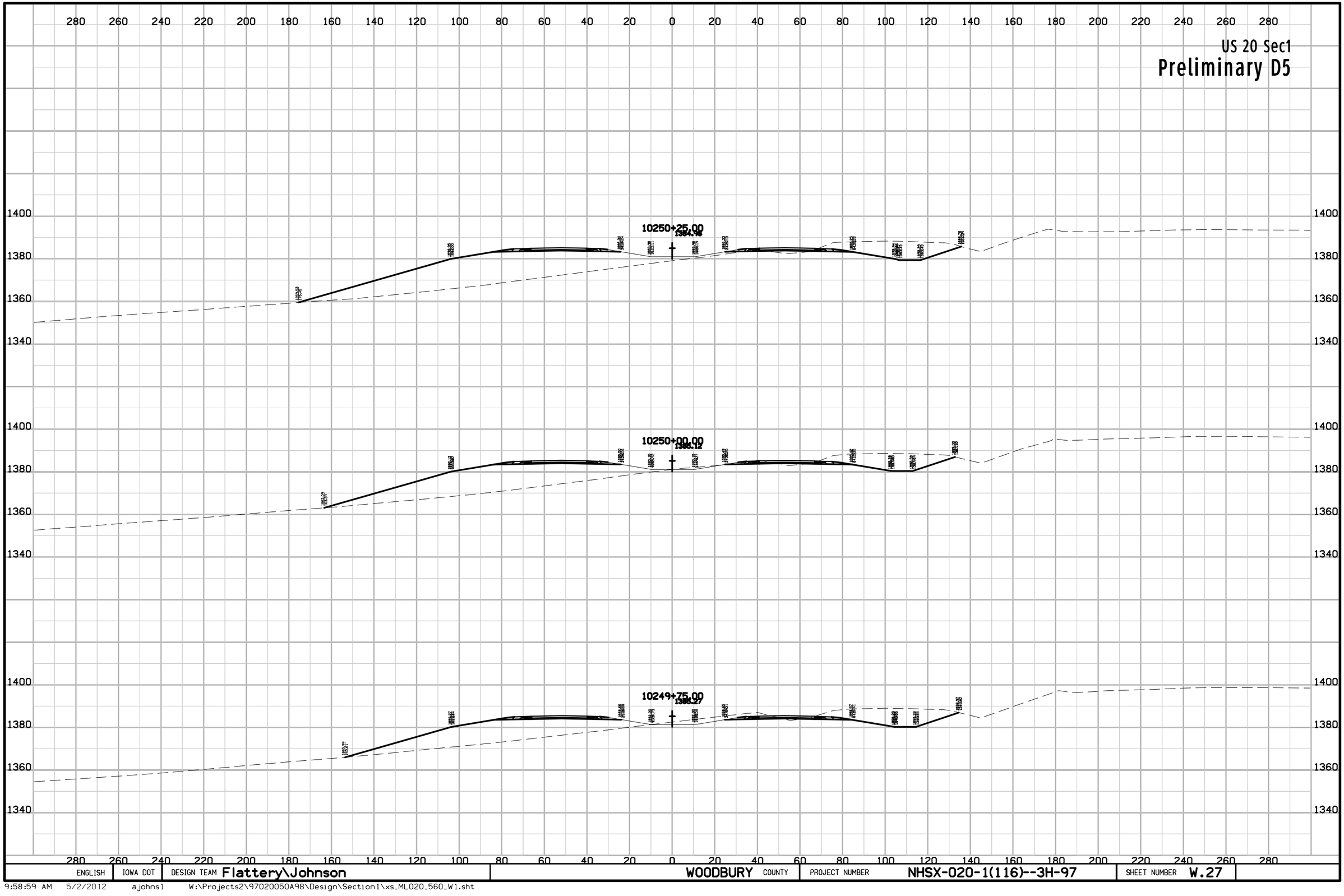
US 20 Sec1

Preliminary D5



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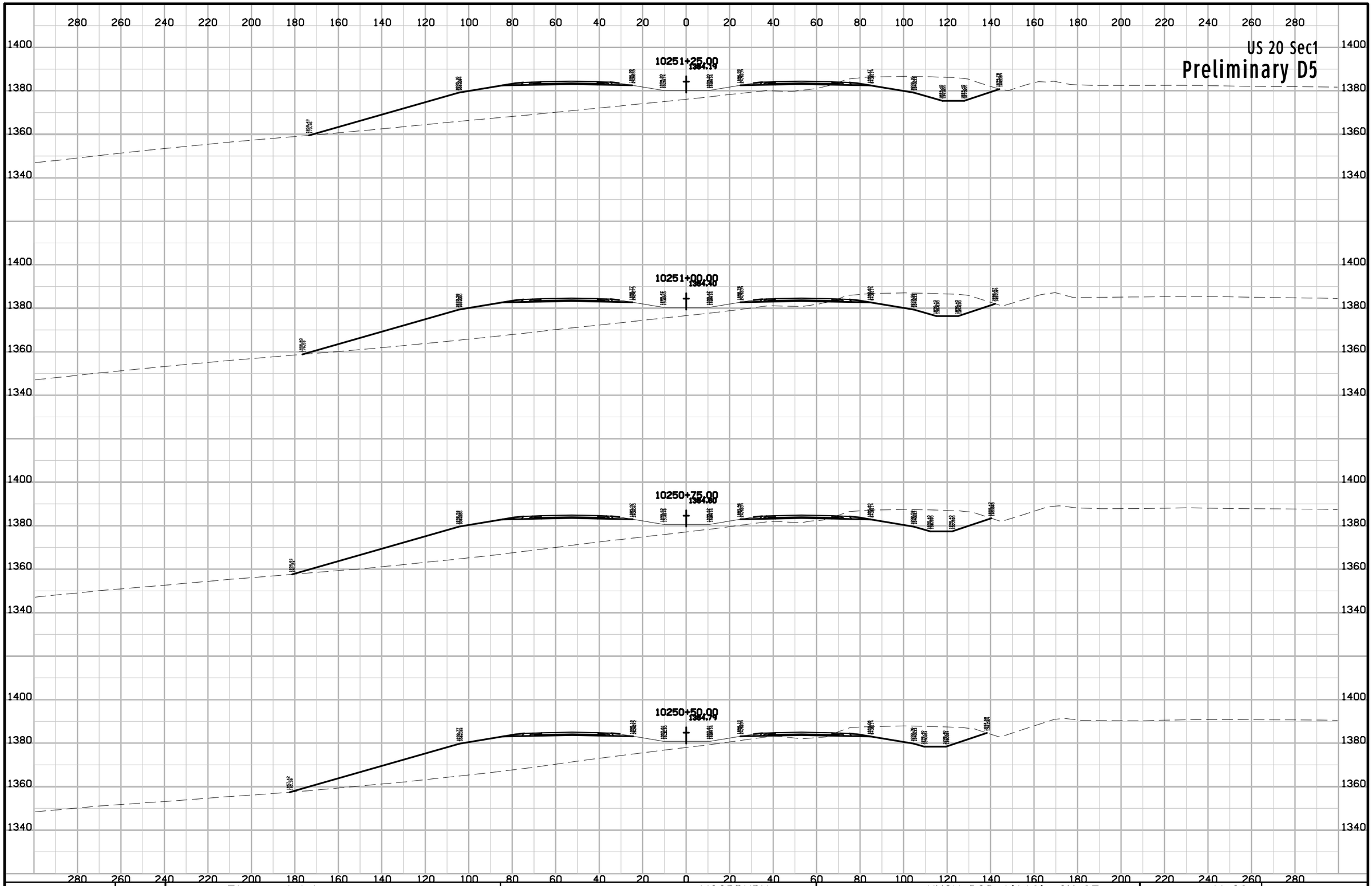
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.28

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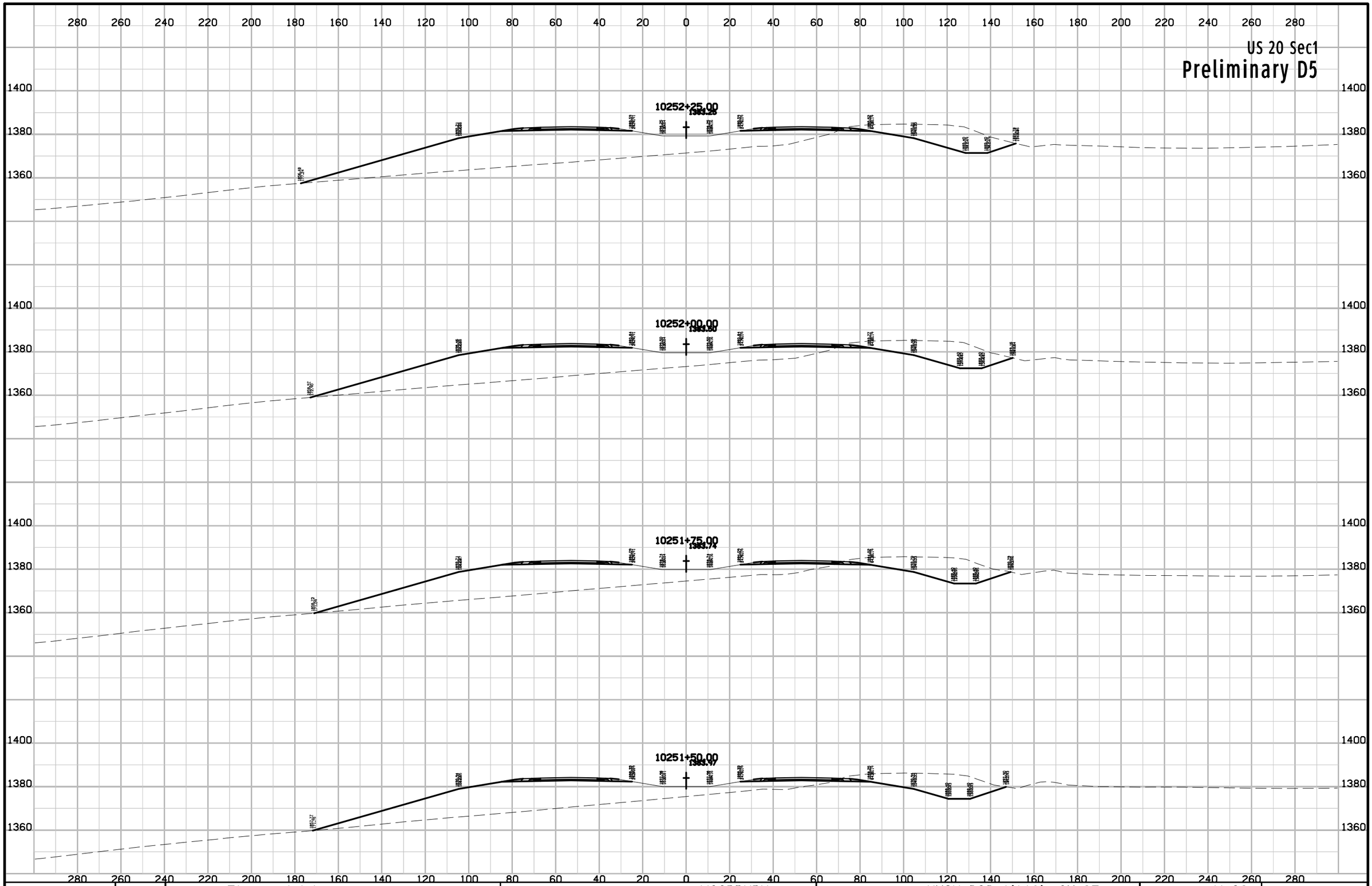
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.29

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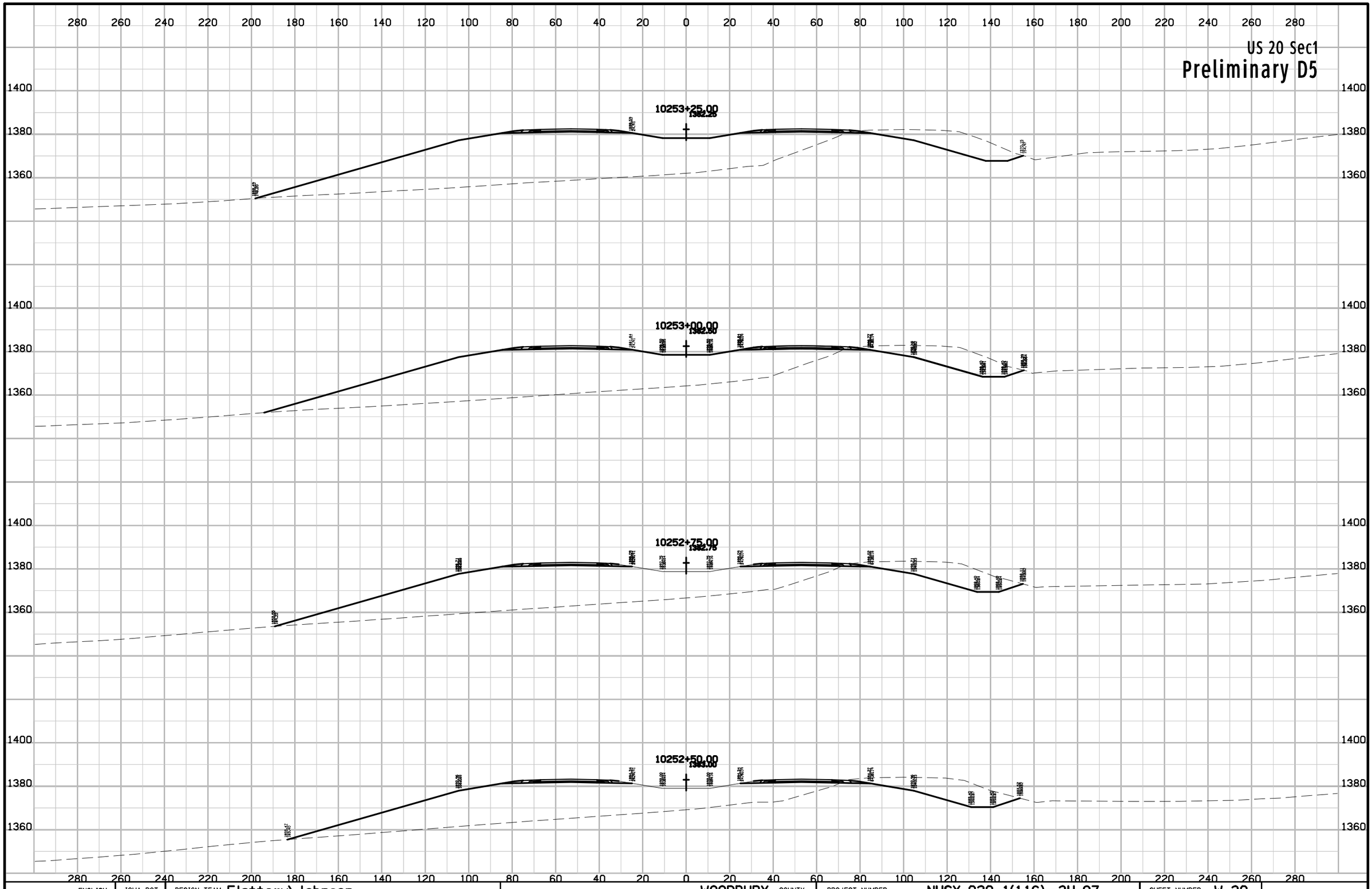
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.30

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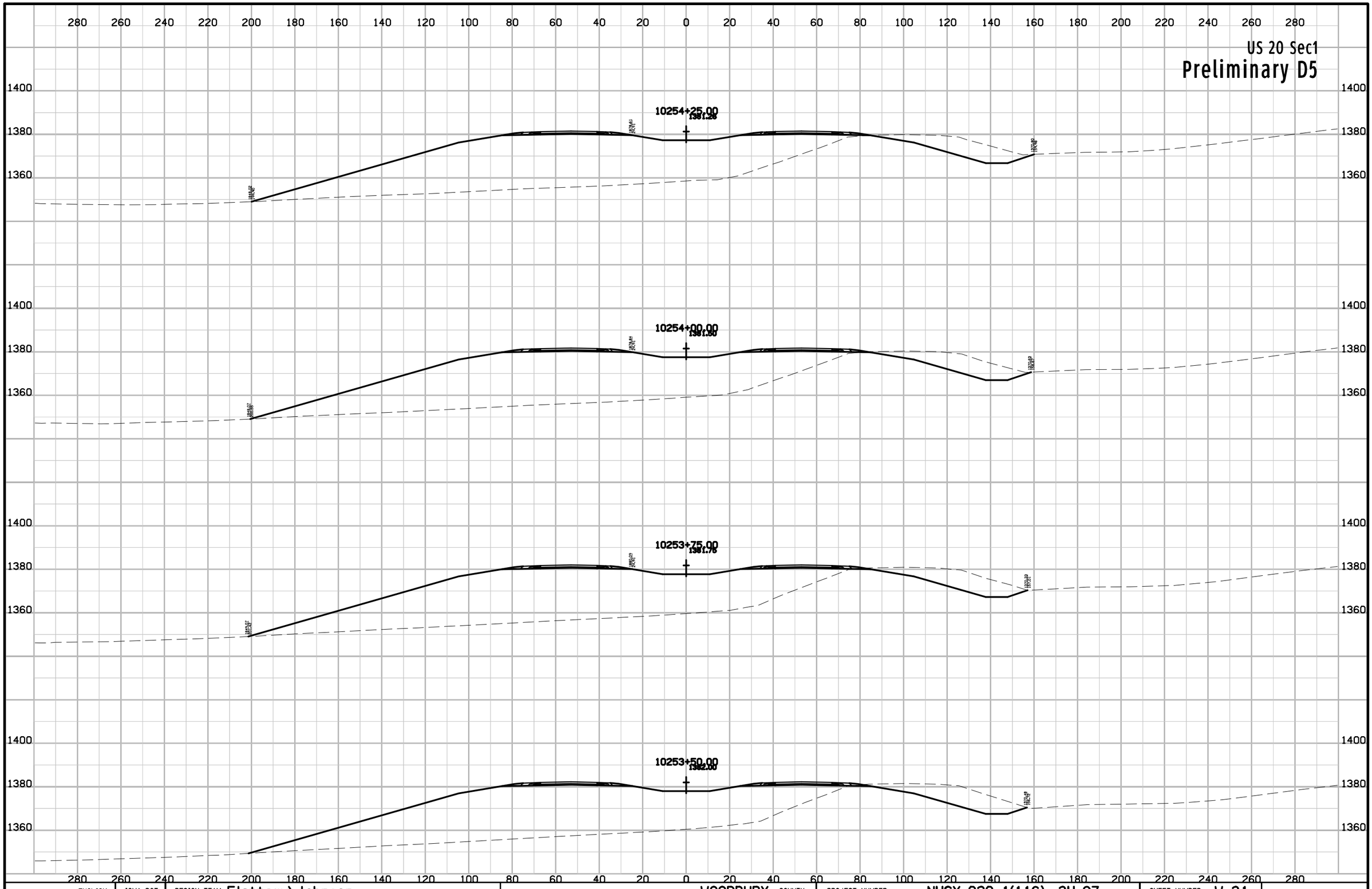
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.31

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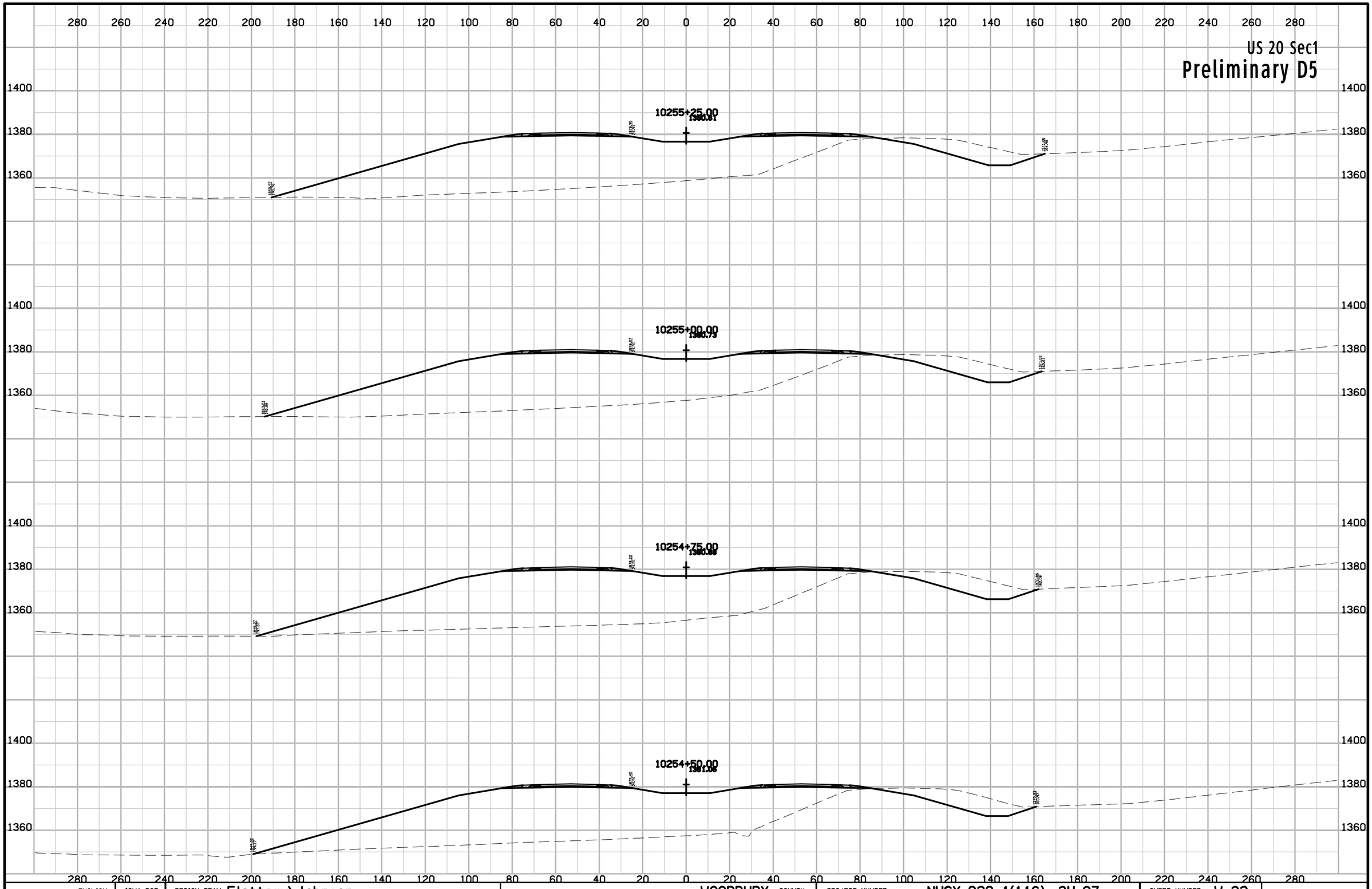
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.32

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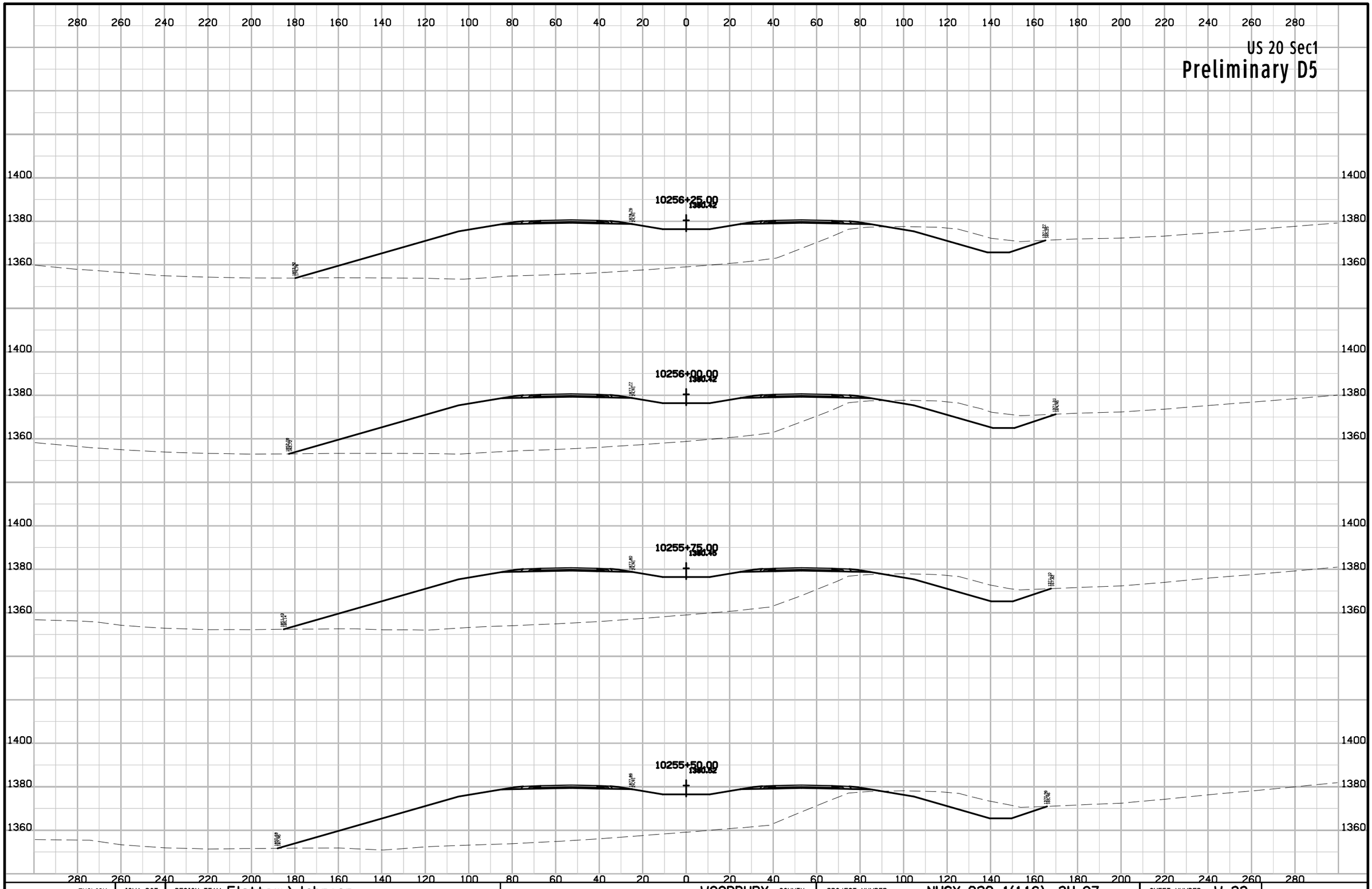
US 20 Sec1

Preliminary D5



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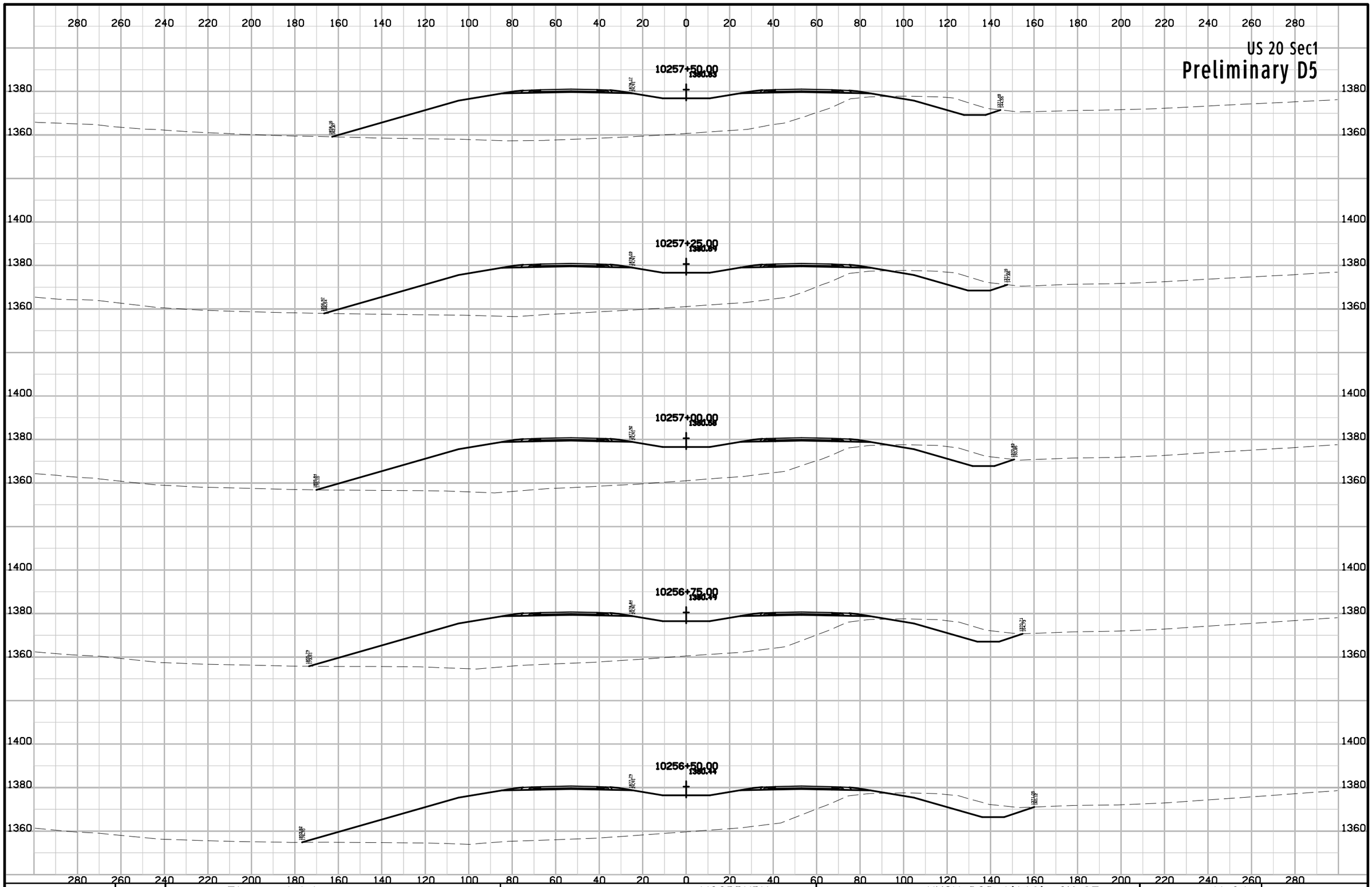
US 20 Sec1

Preliminary D5



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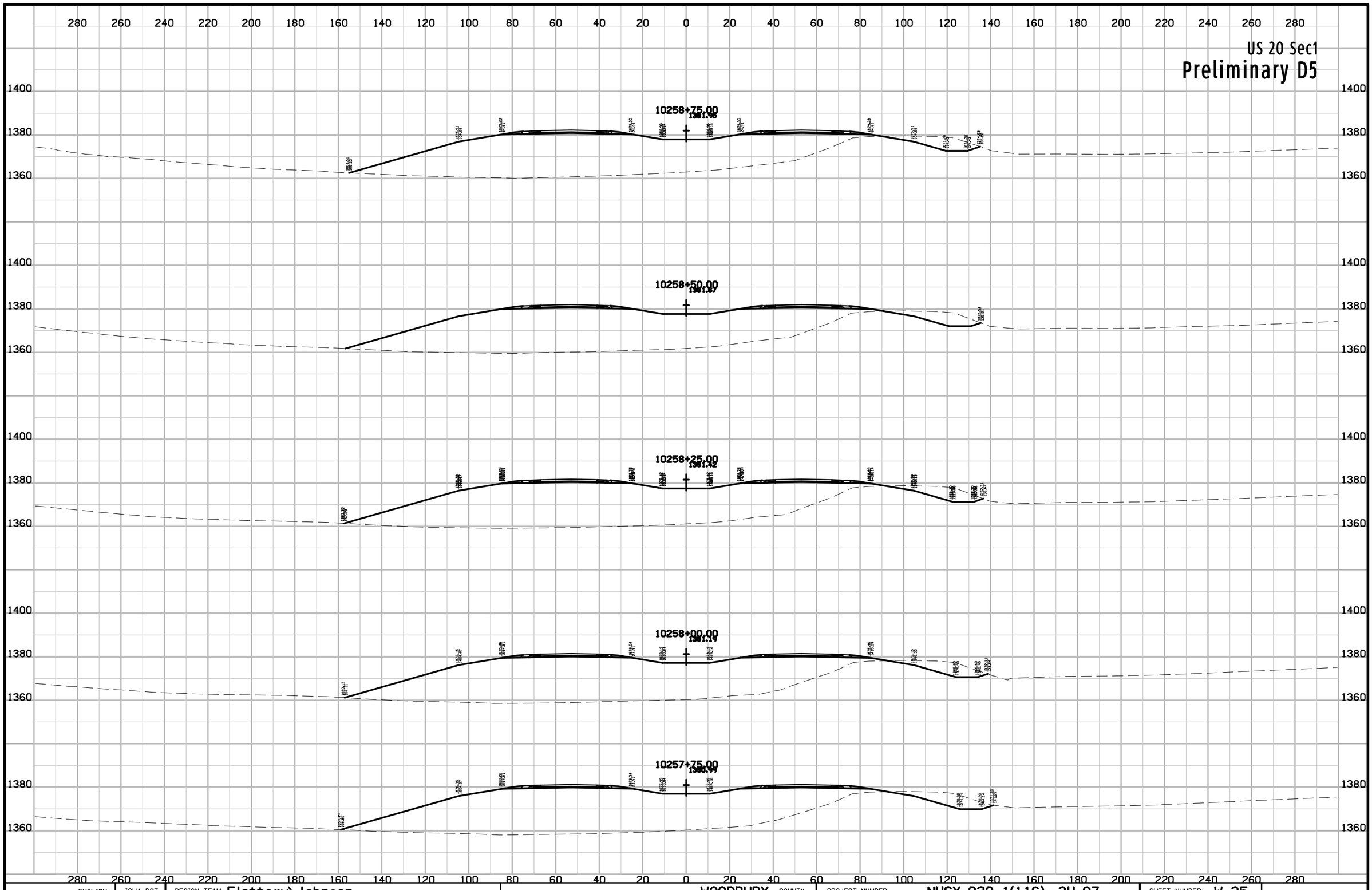
US 20 Sec1

Preliminary D5



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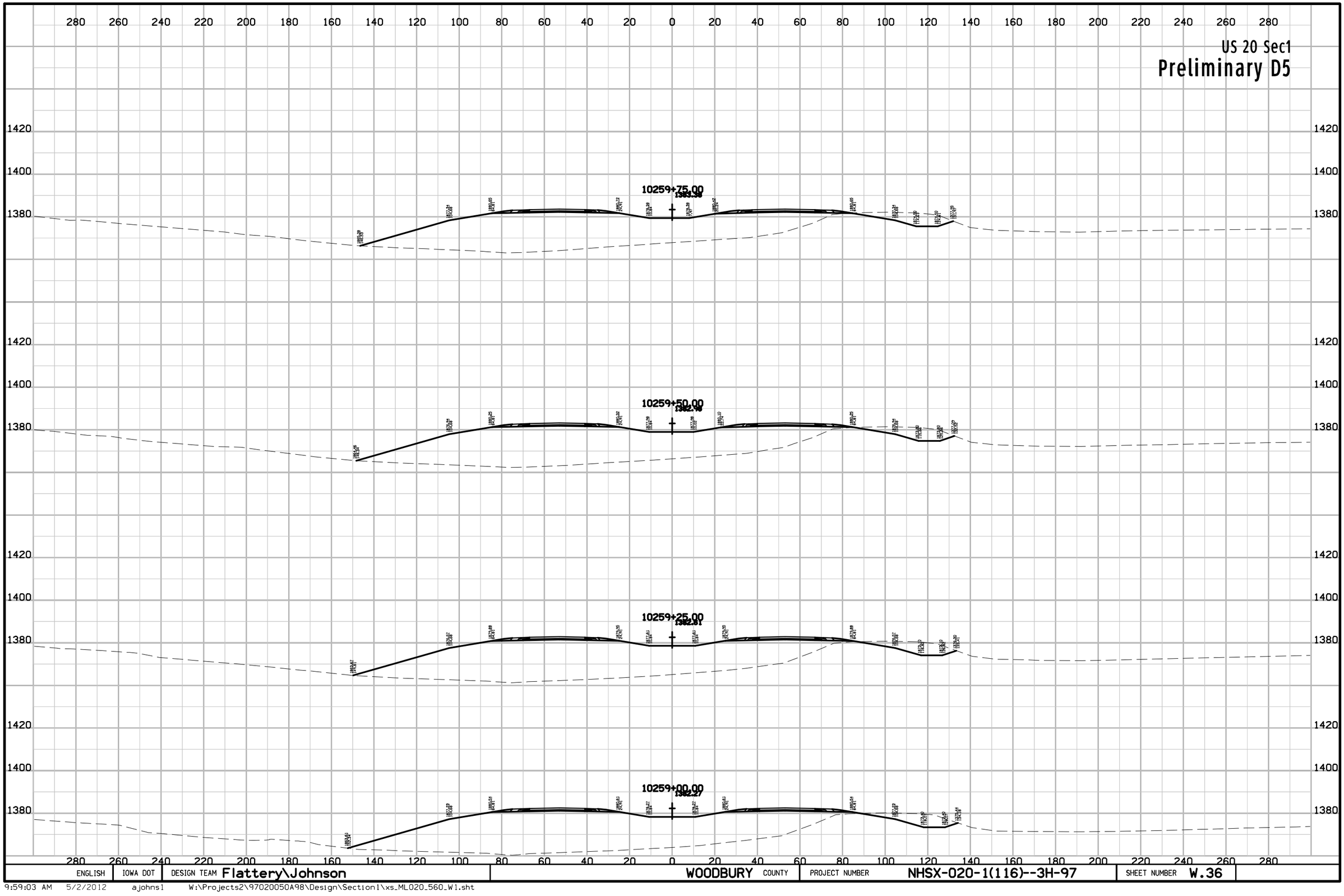
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.36

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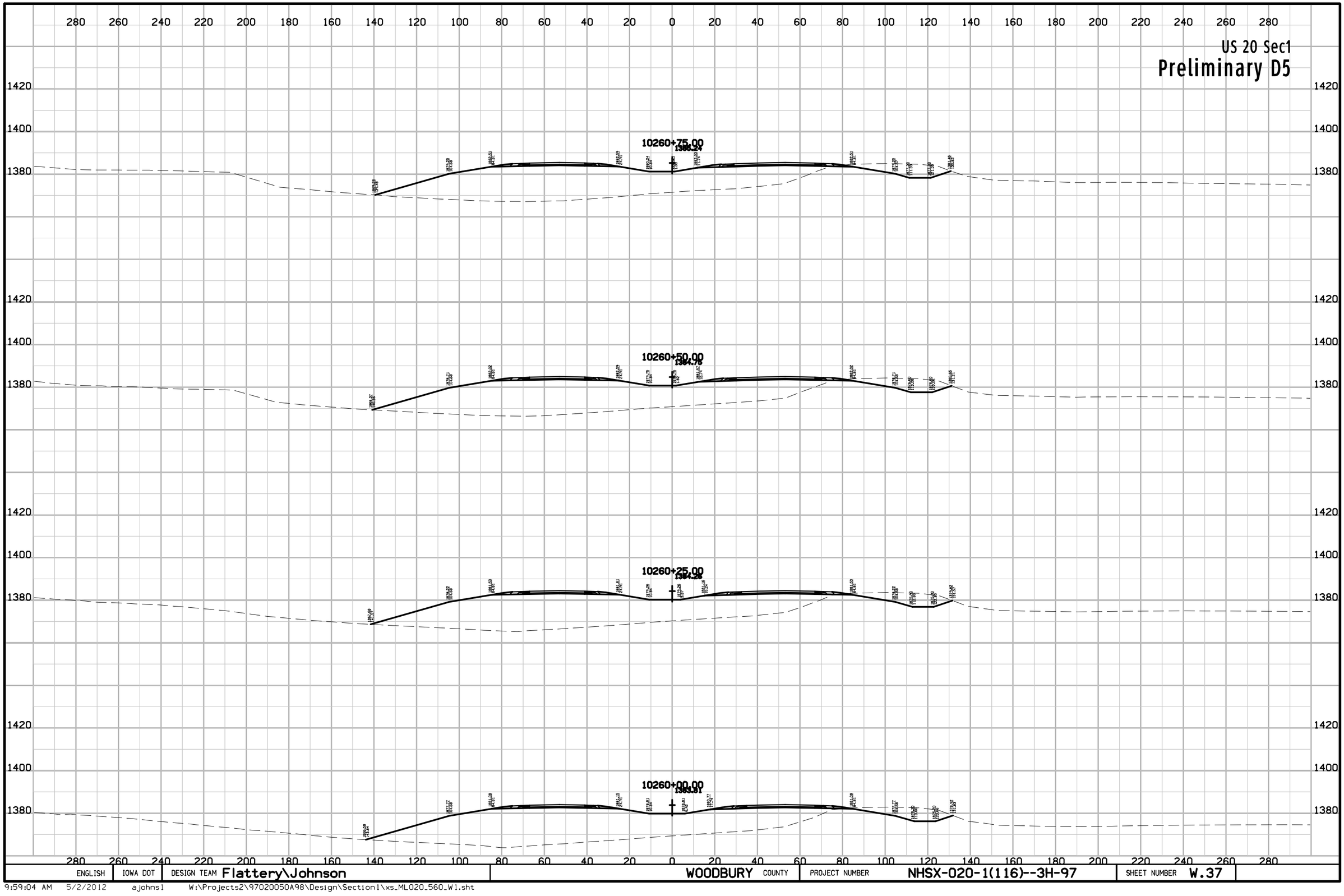
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.37

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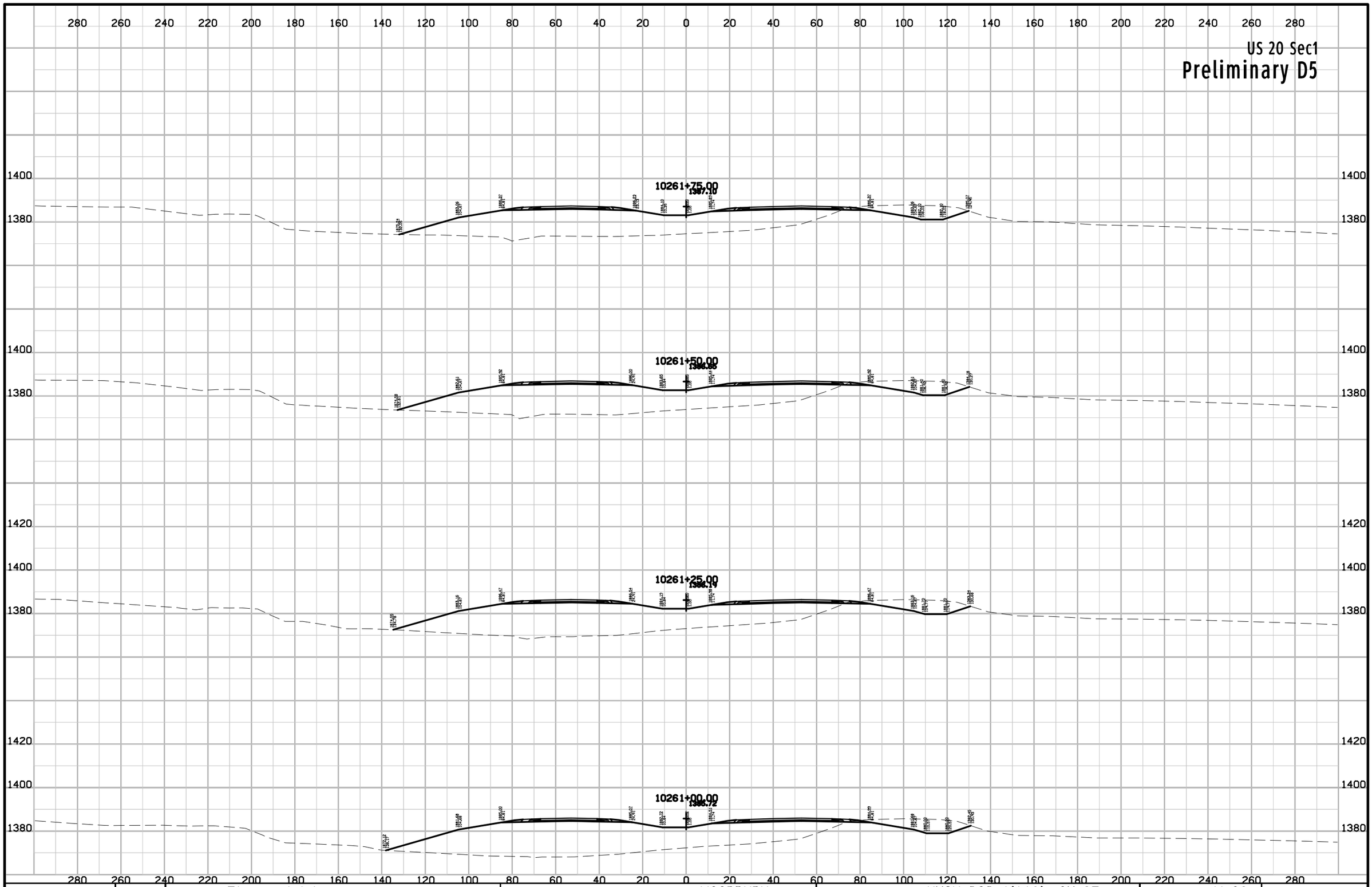
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.38

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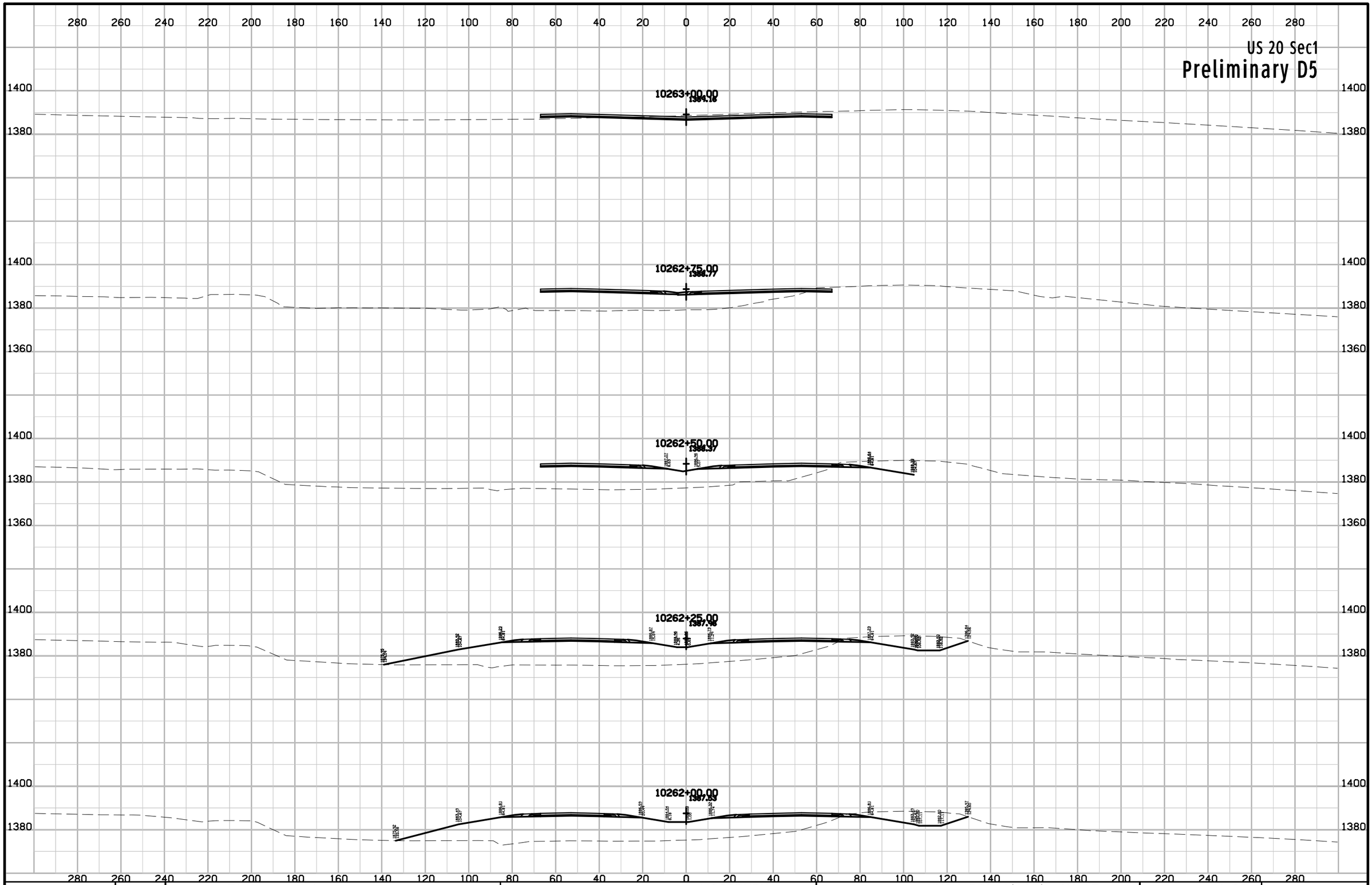
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.39

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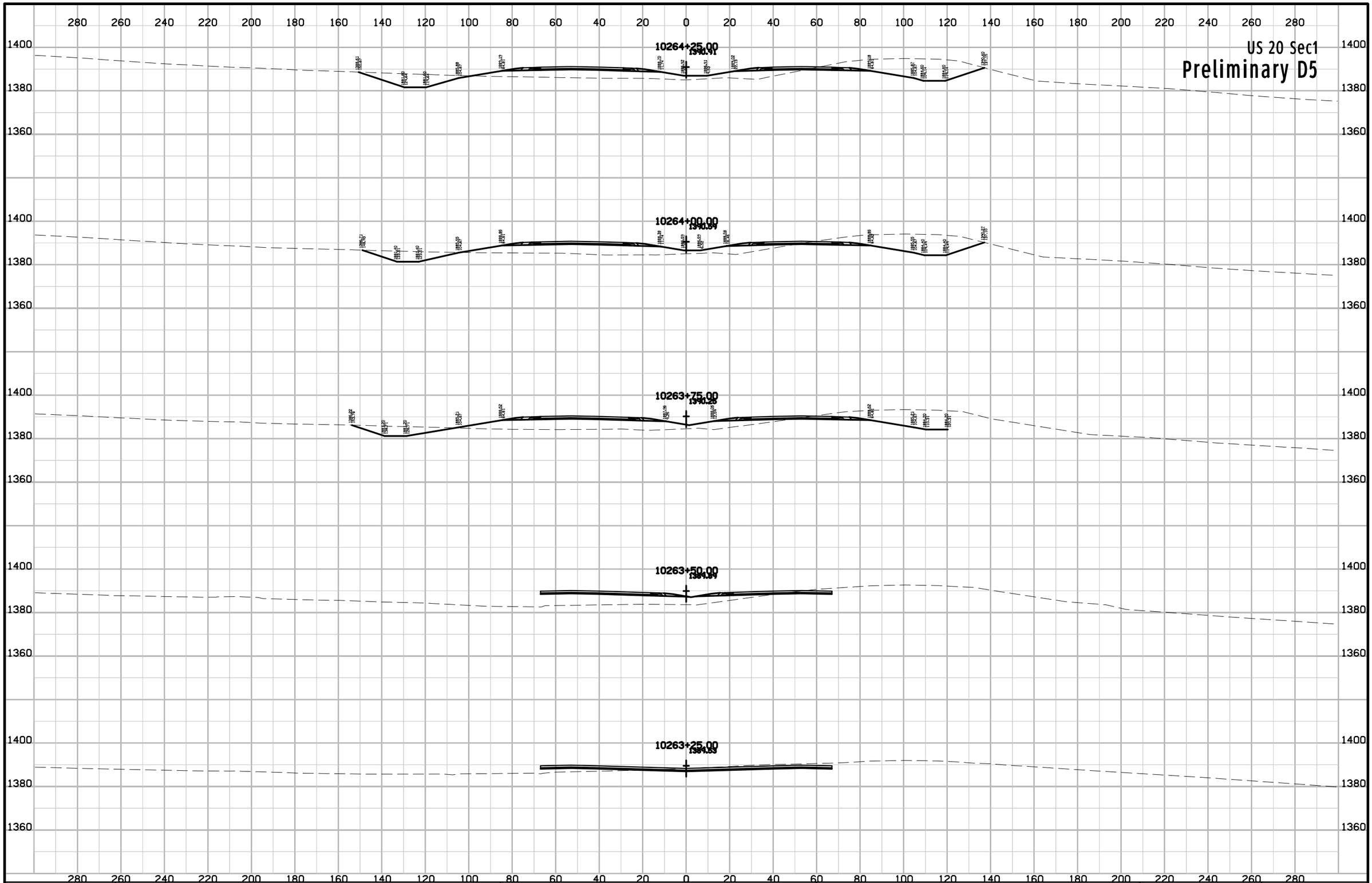
US 20 Sec1

Preliminary D5



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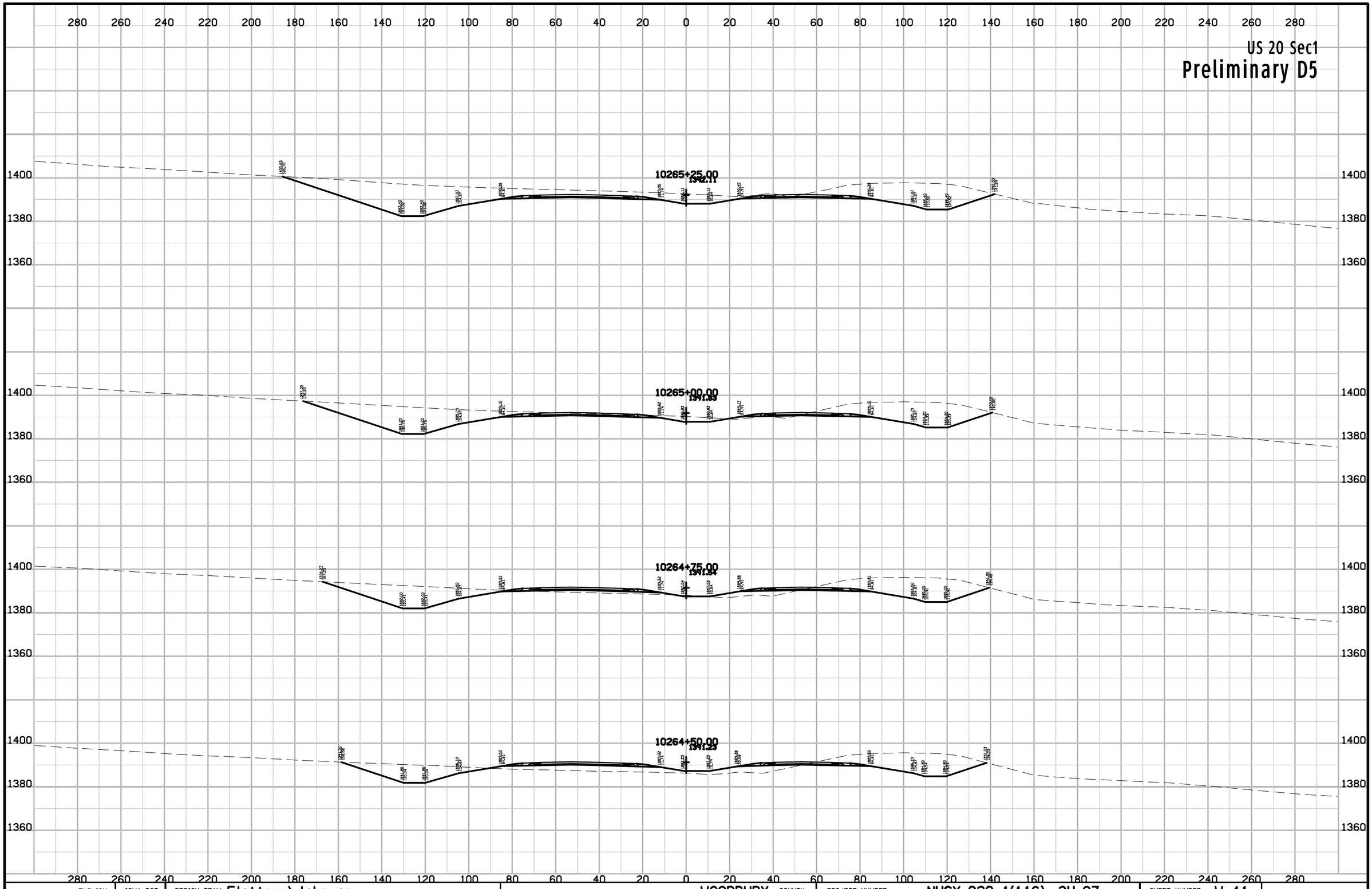
US 20 Sec1

Preliminary D5



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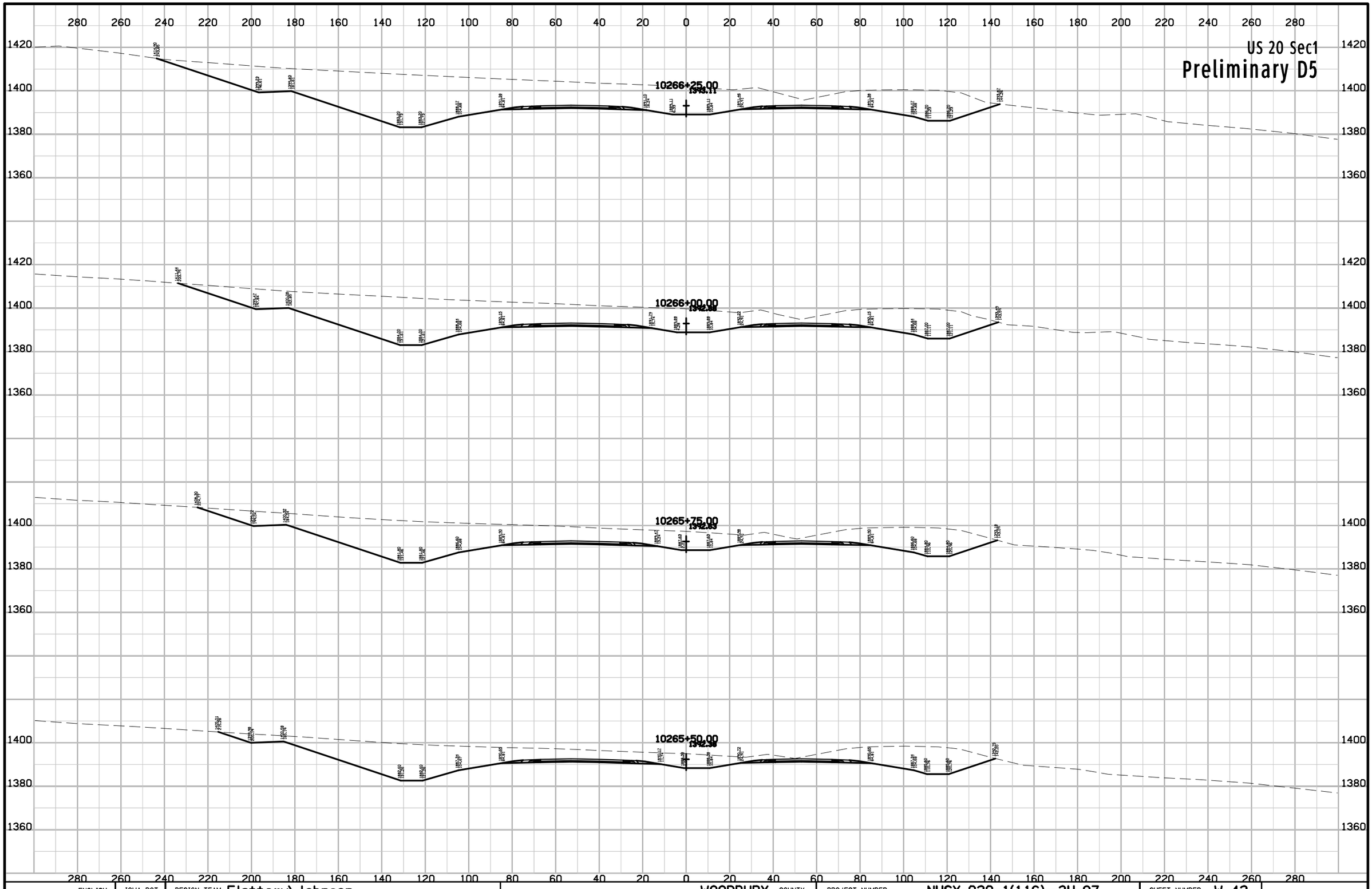
US 20 Sec1

Preliminary D5



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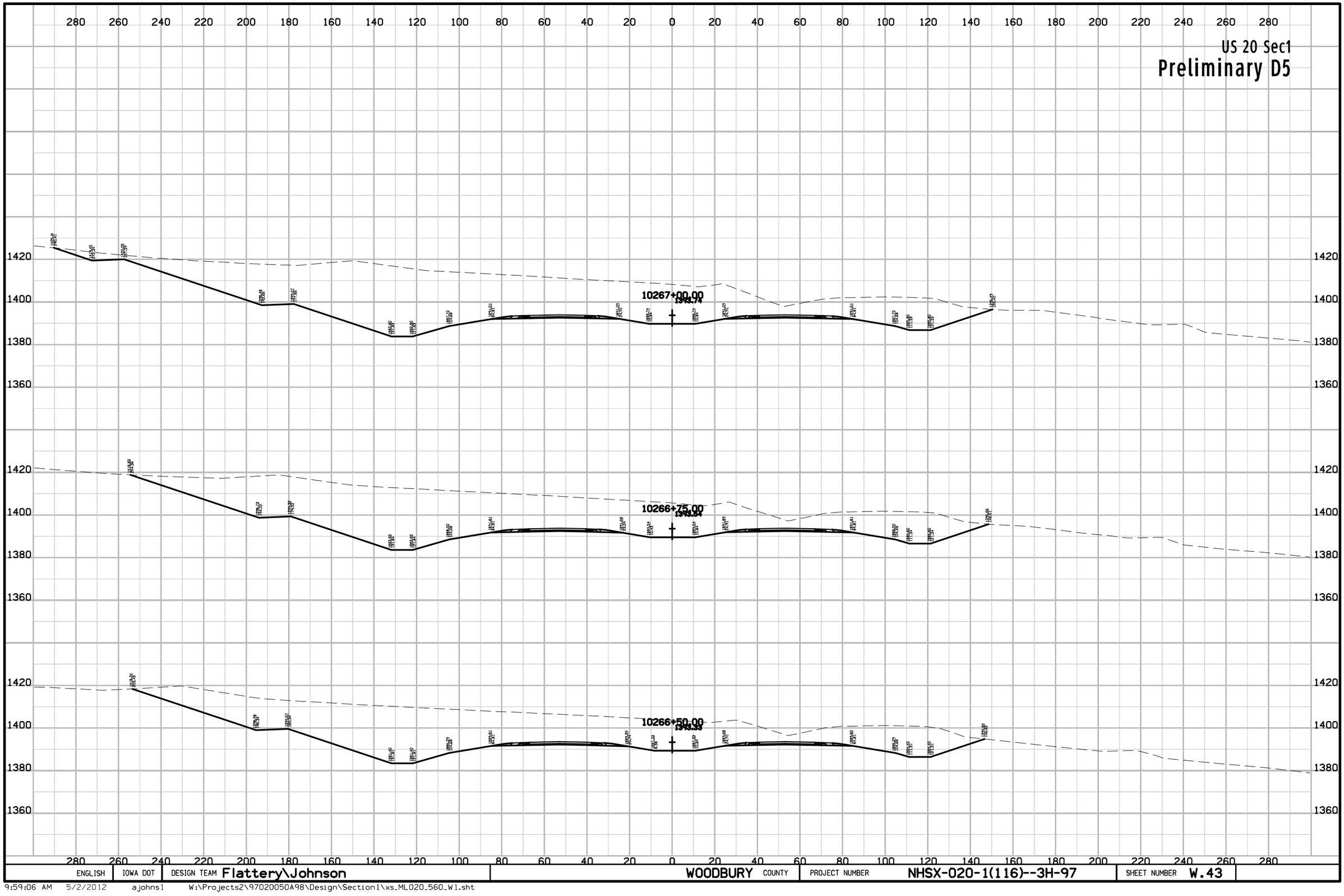
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

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1420
1400
1380
1360

10267+75.00
1394.28

10267+50.00
1394.10

10267+25.00
1393.93

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.44

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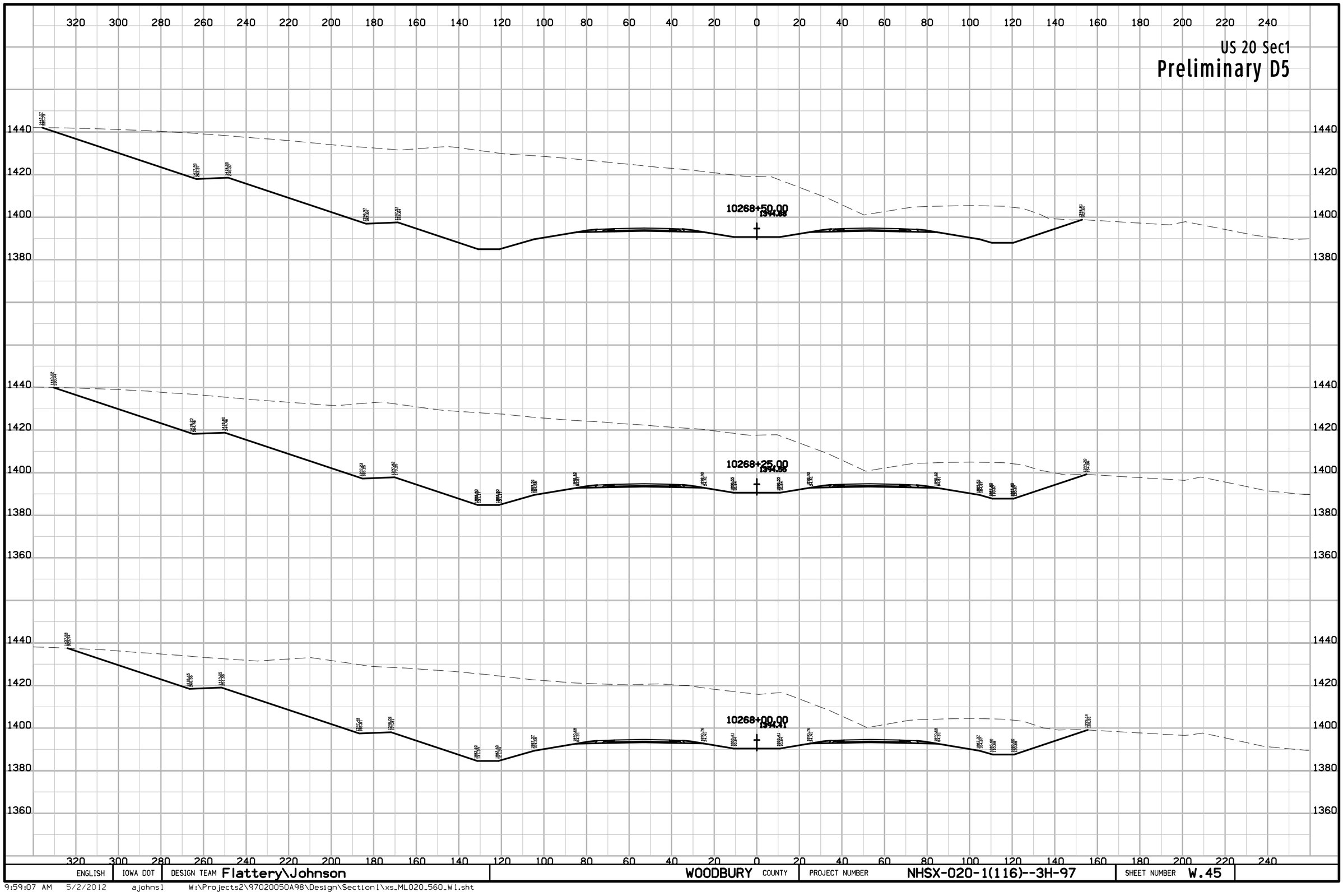
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.45

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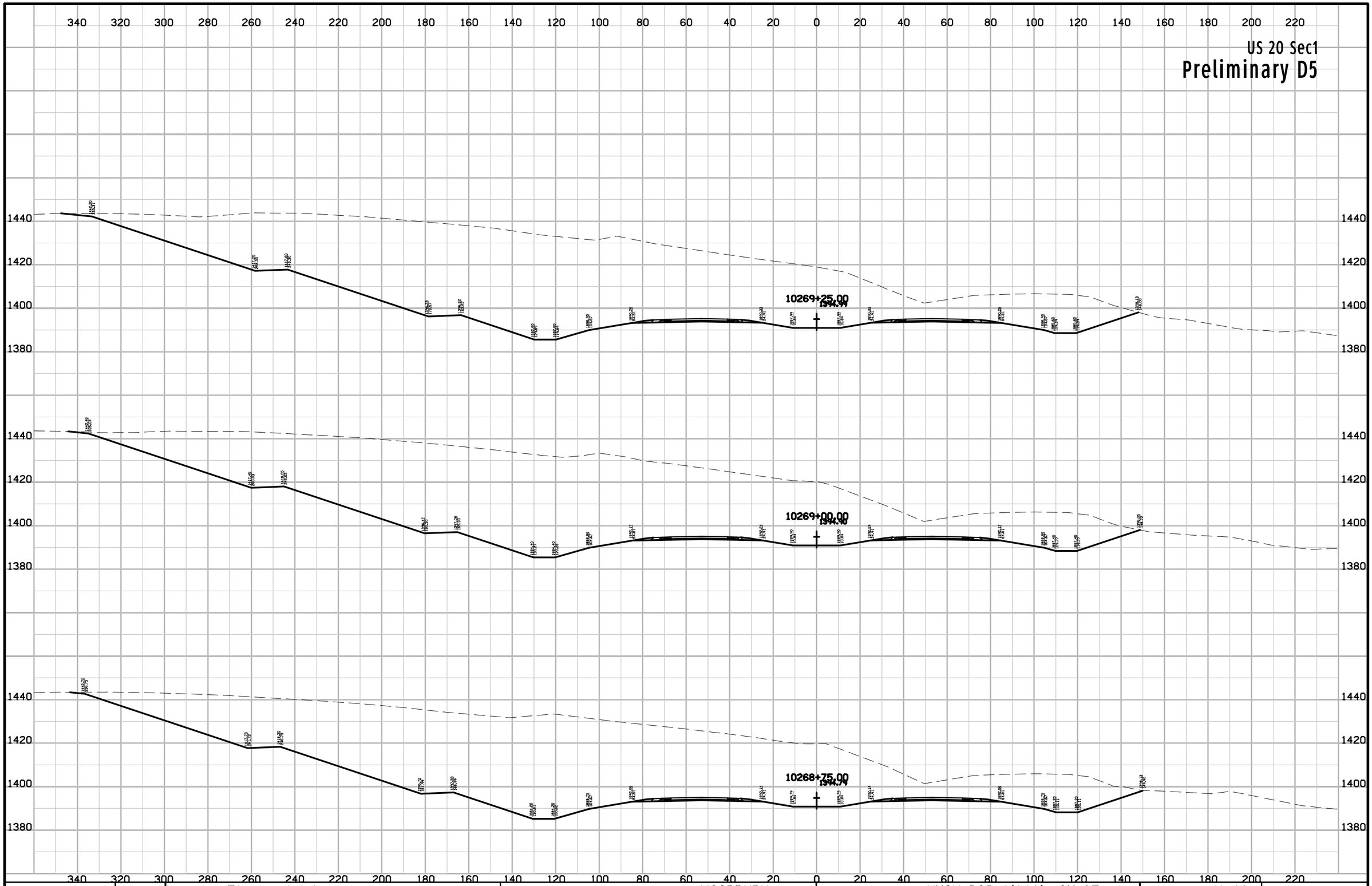
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.46

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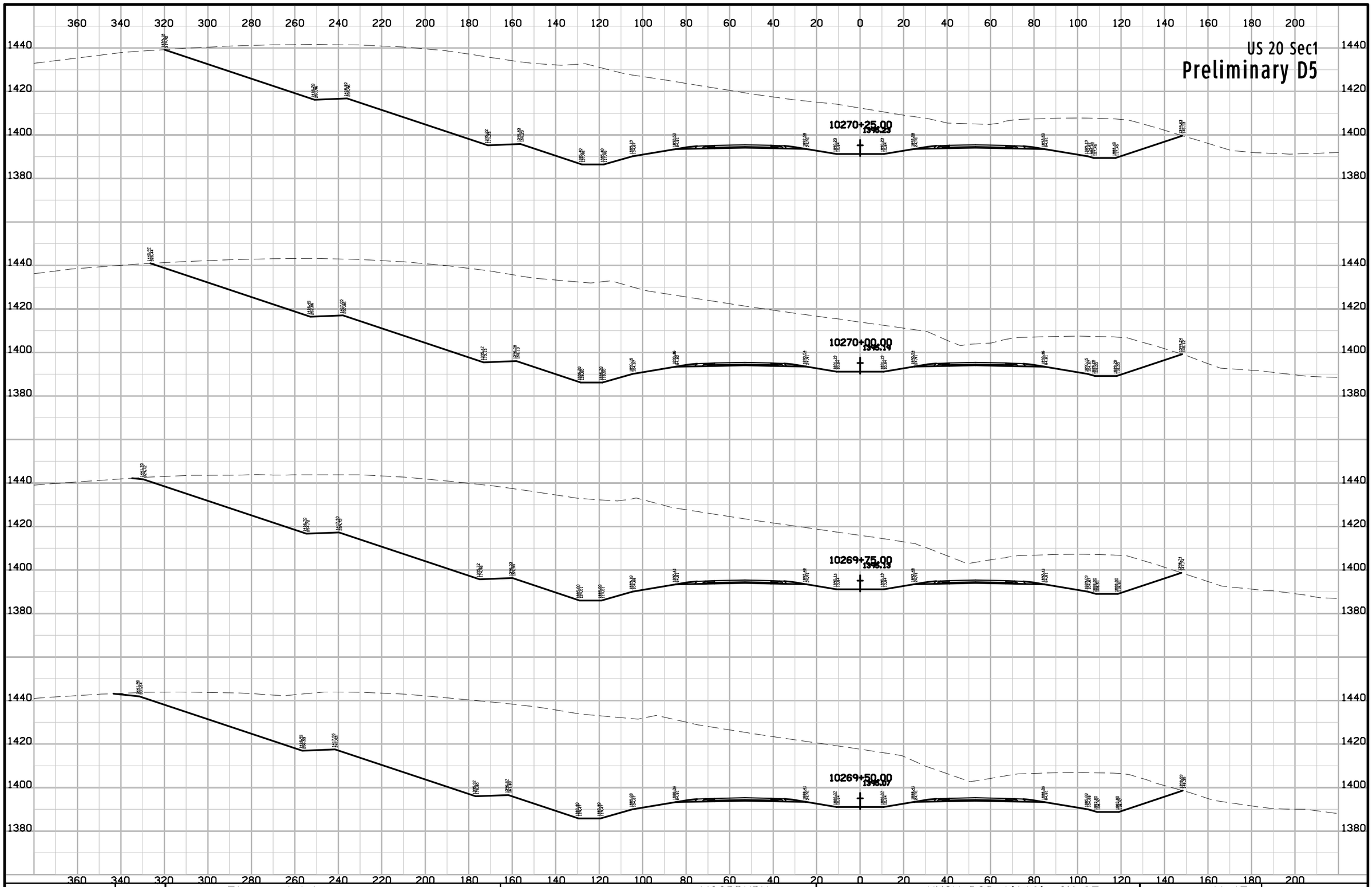
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.47

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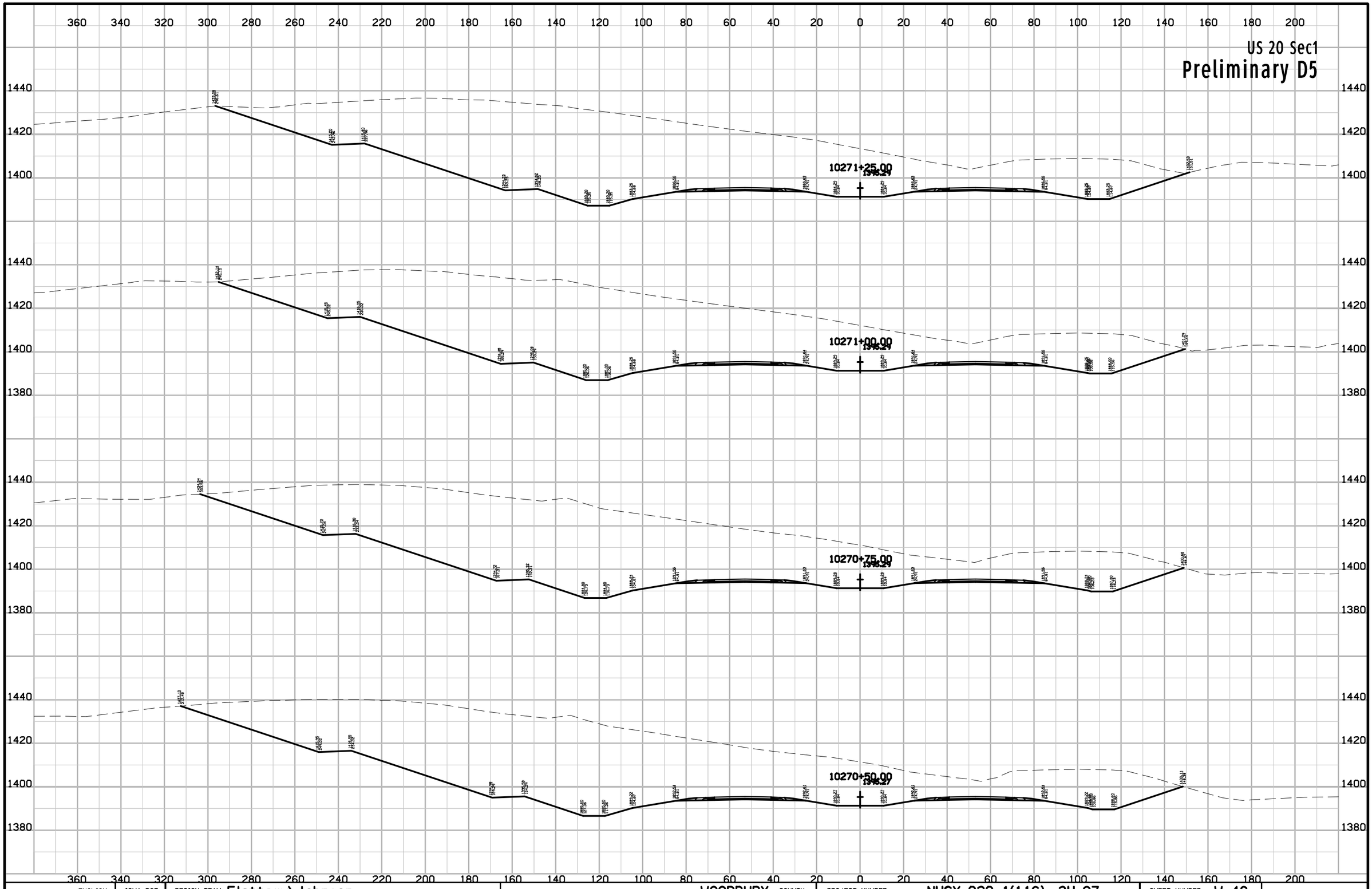
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.48

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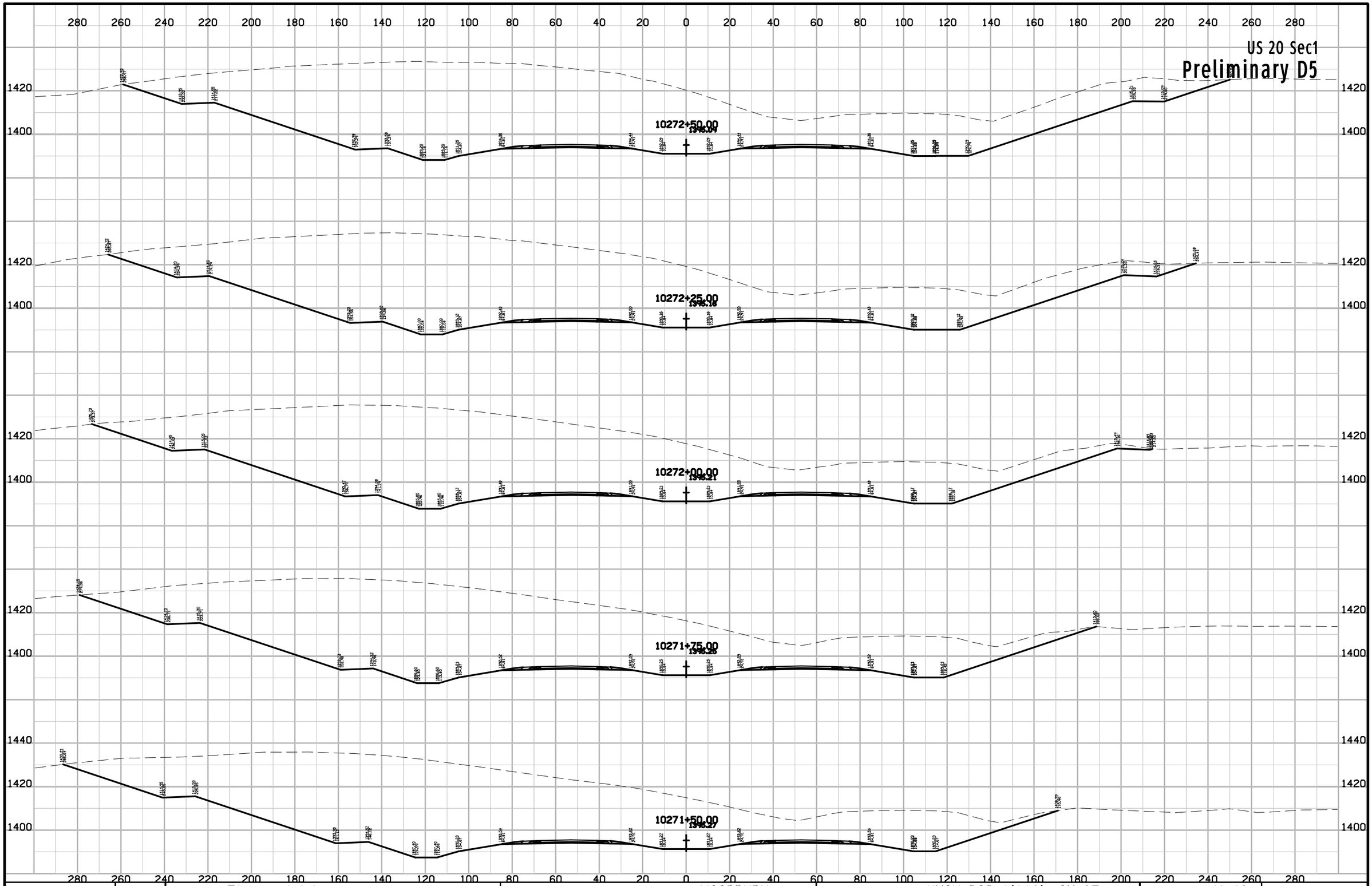
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.49

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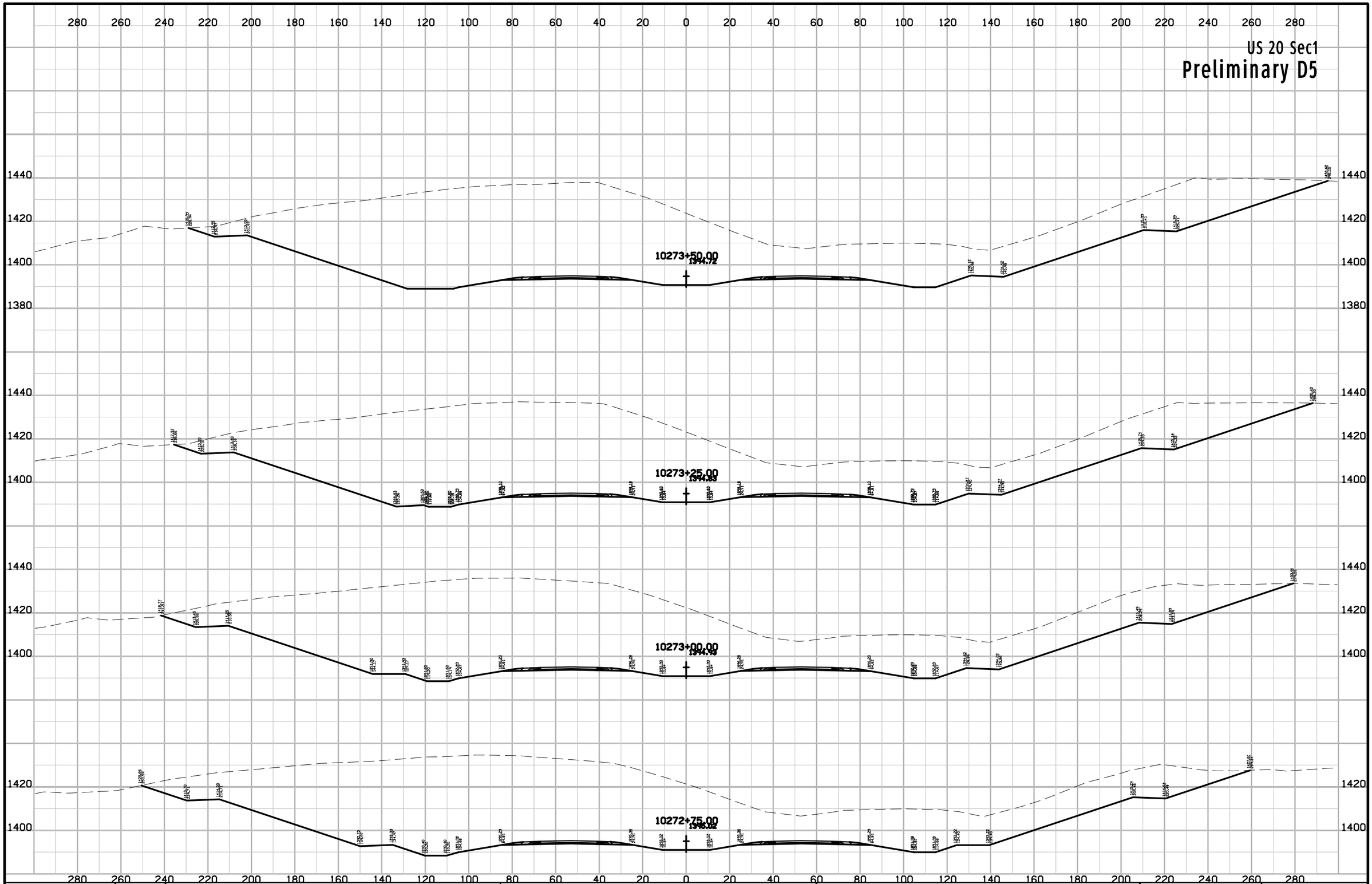
US 20 Sec1

Preliminary D5



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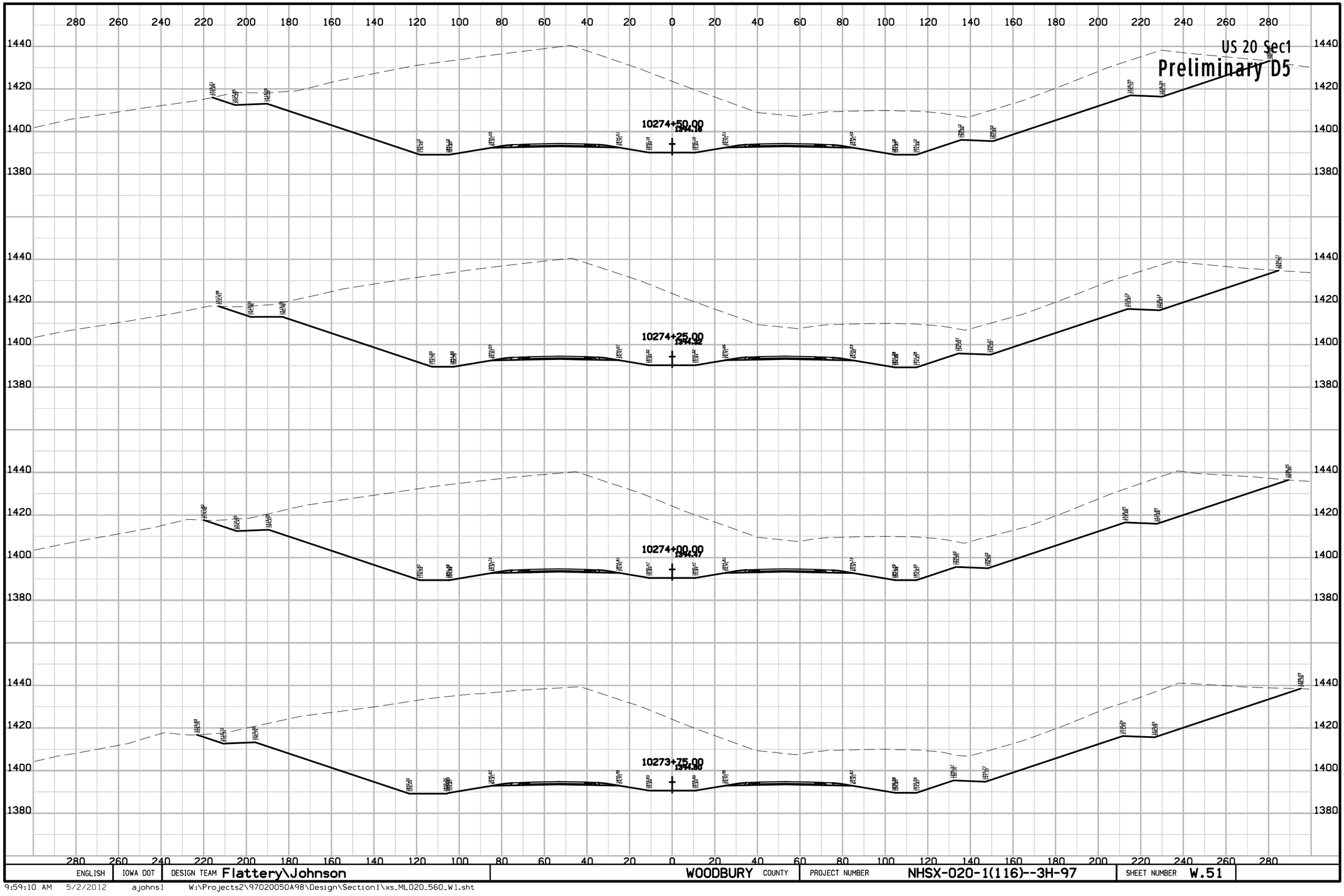
US 20 Sec1

Preliminary D5



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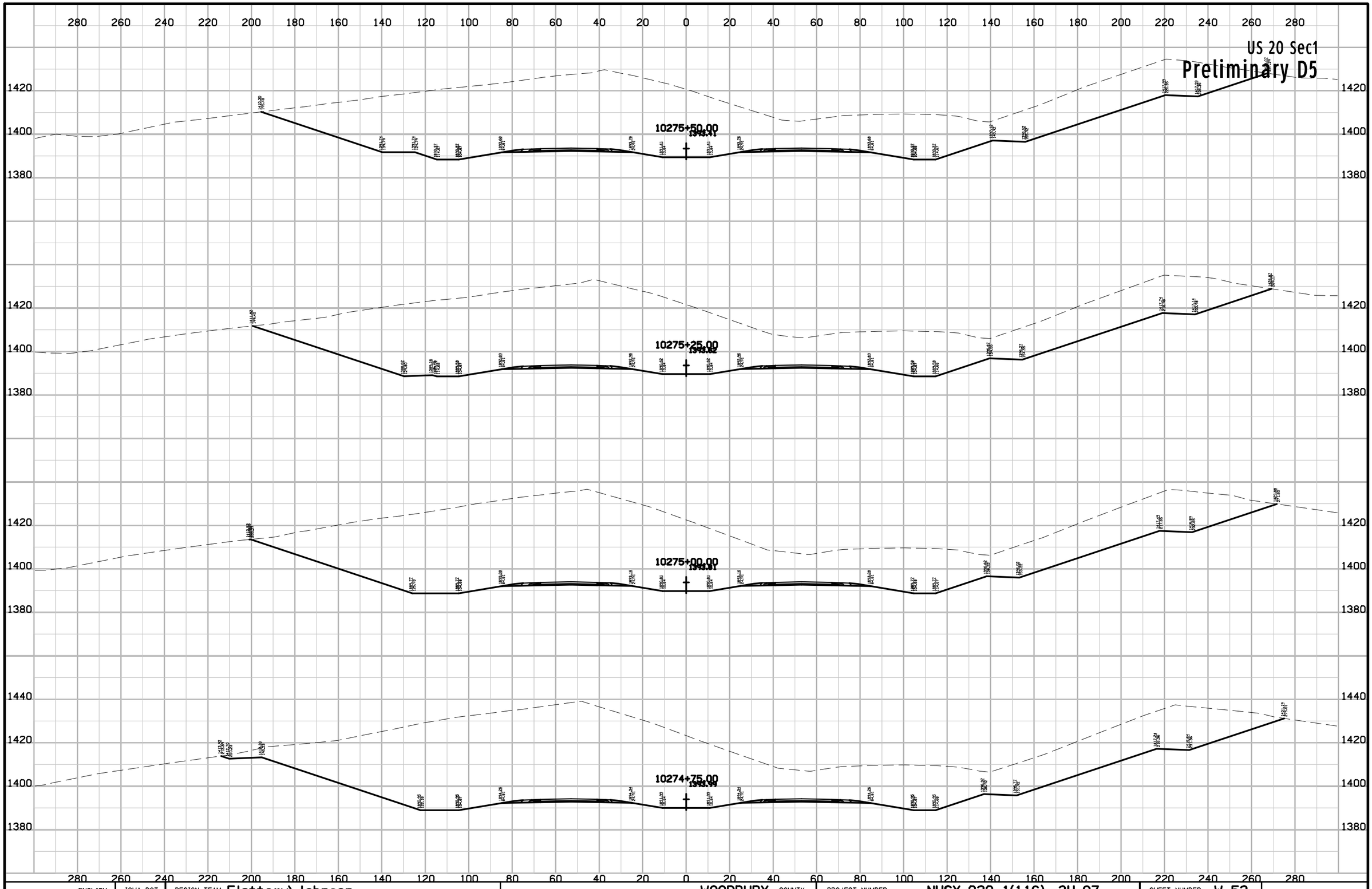
US 20 Sec1

Preliminary D5



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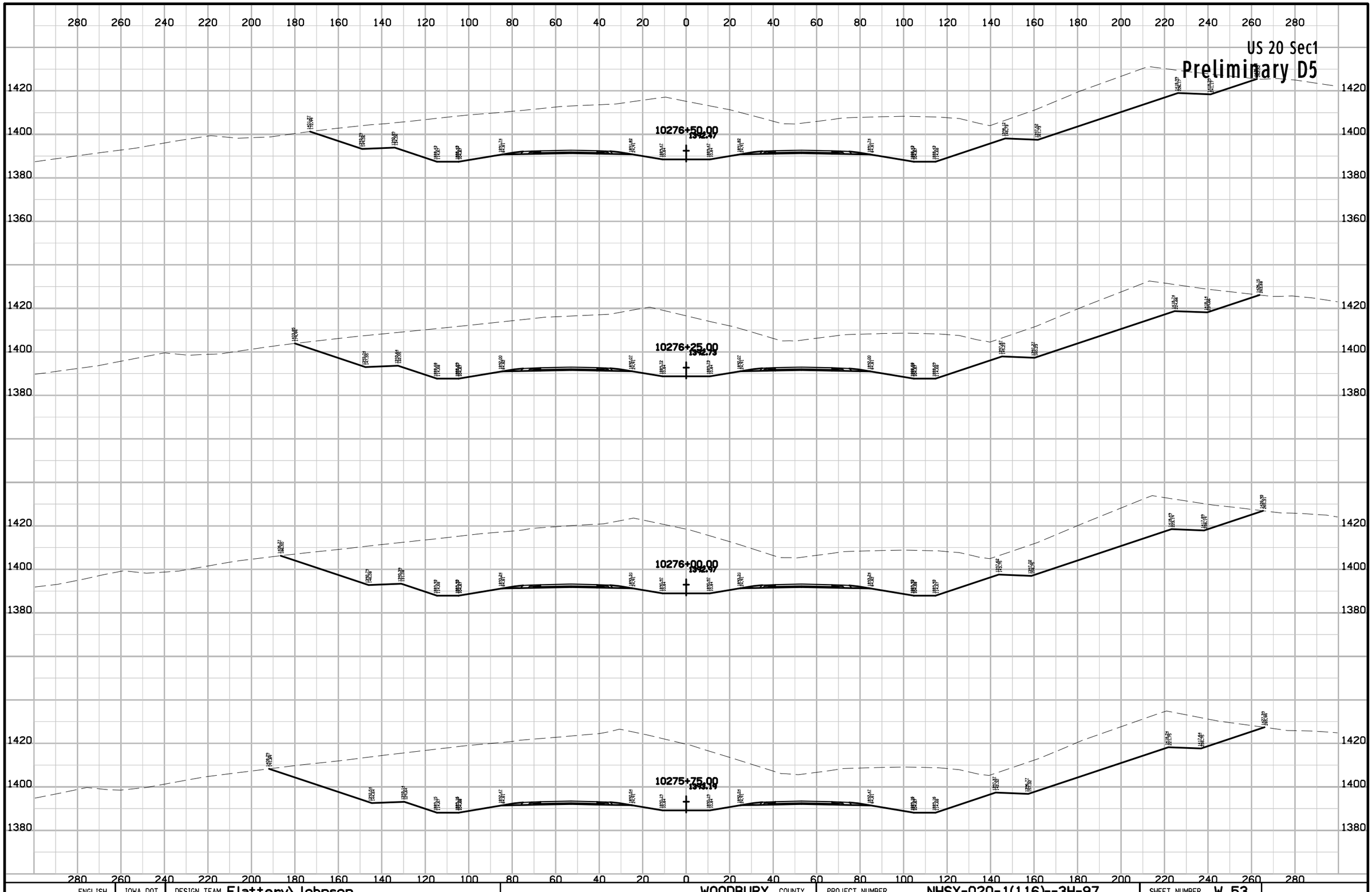
US 20 Sec1

Preliminary D5



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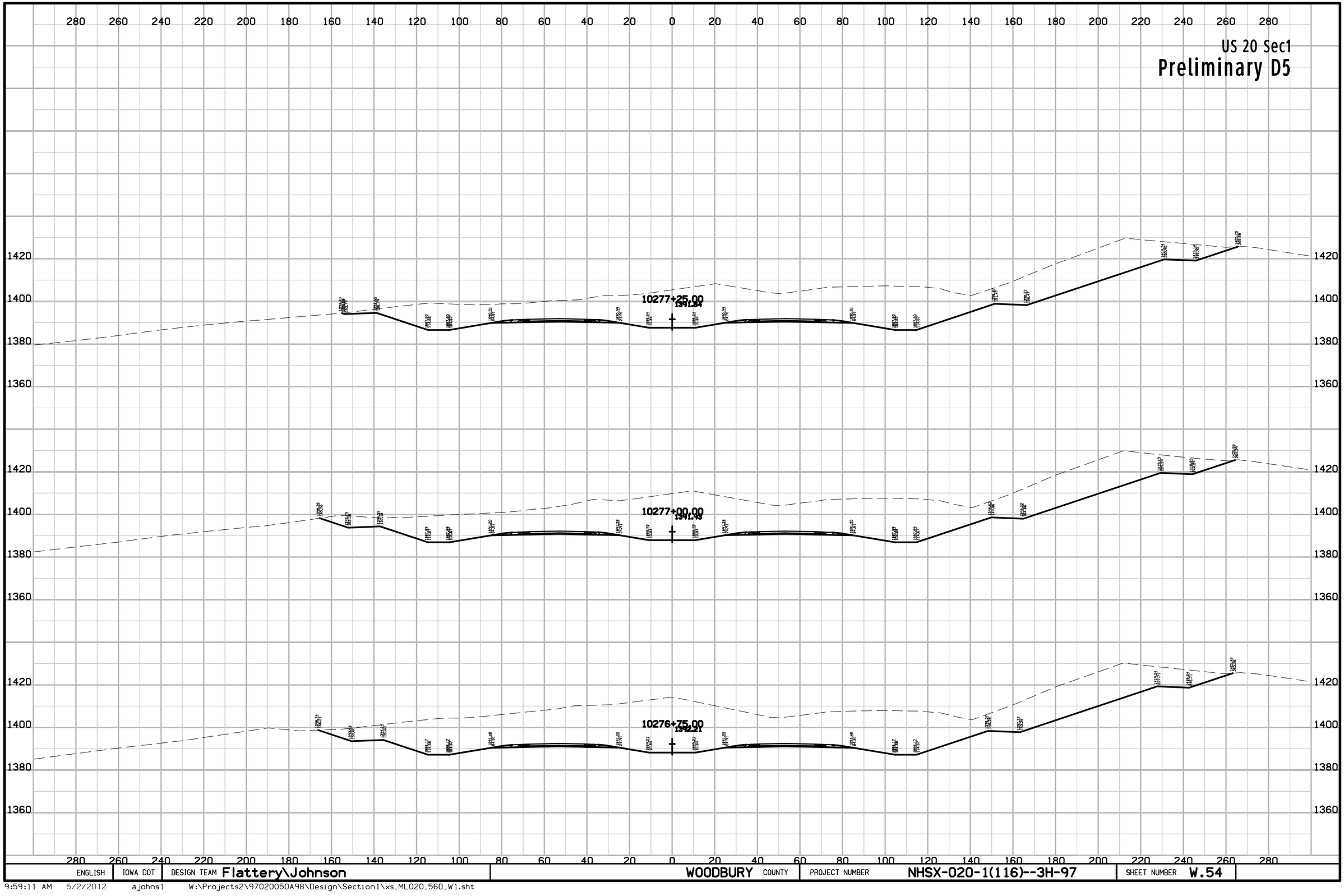
US 20 Sec1

Preliminary D5



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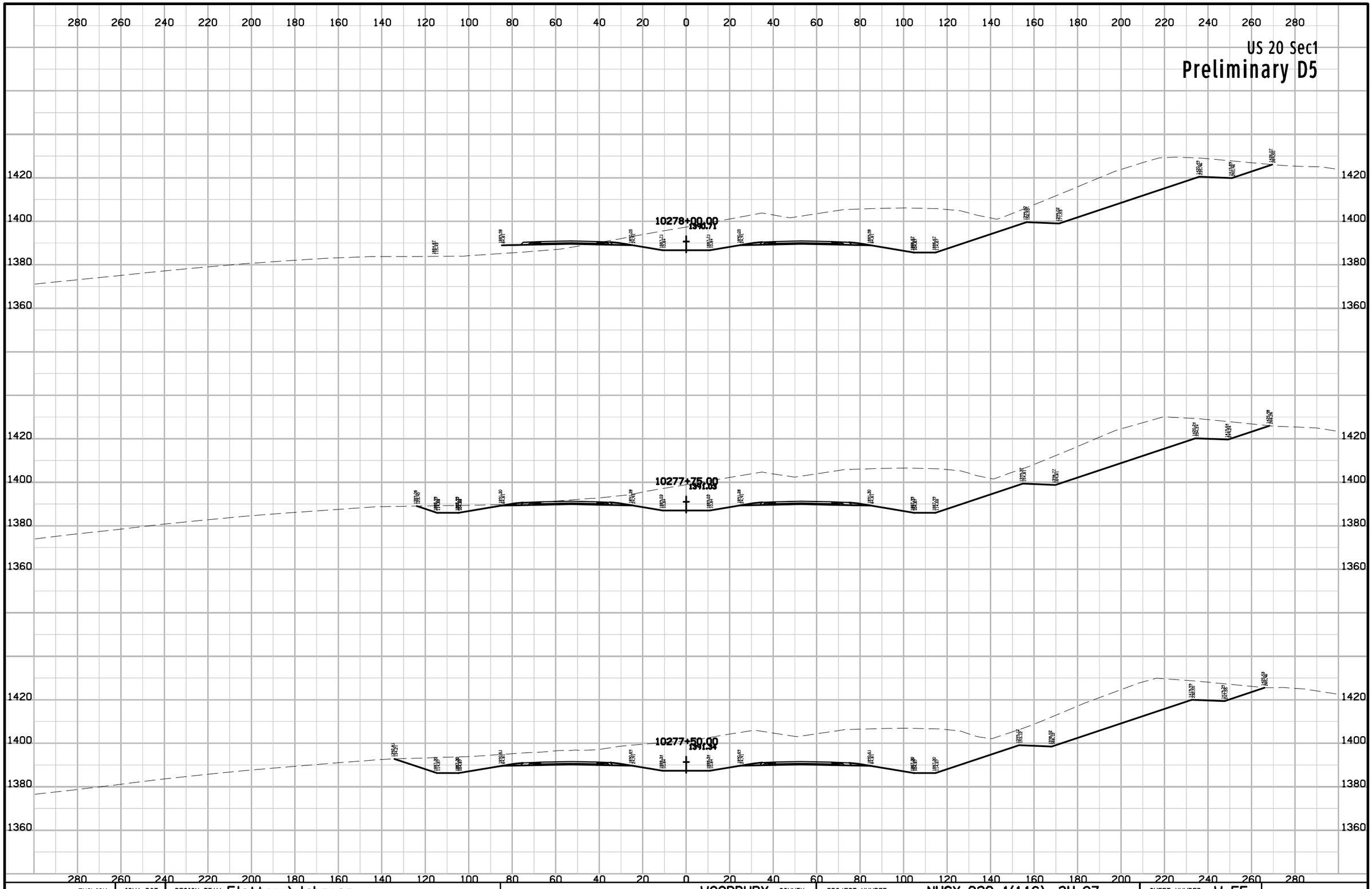
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.55

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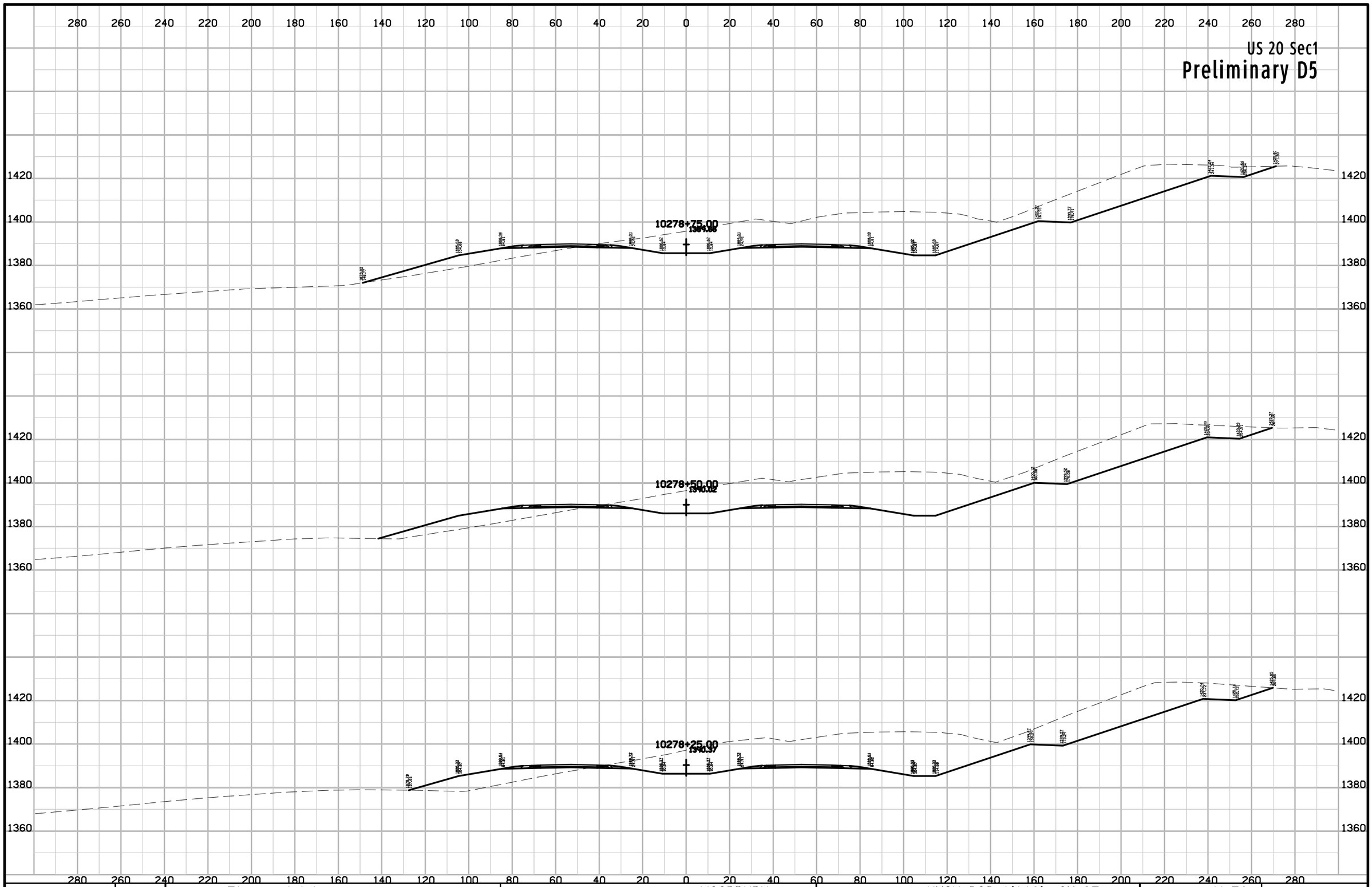
US 20 Sec1

Preliminary D5



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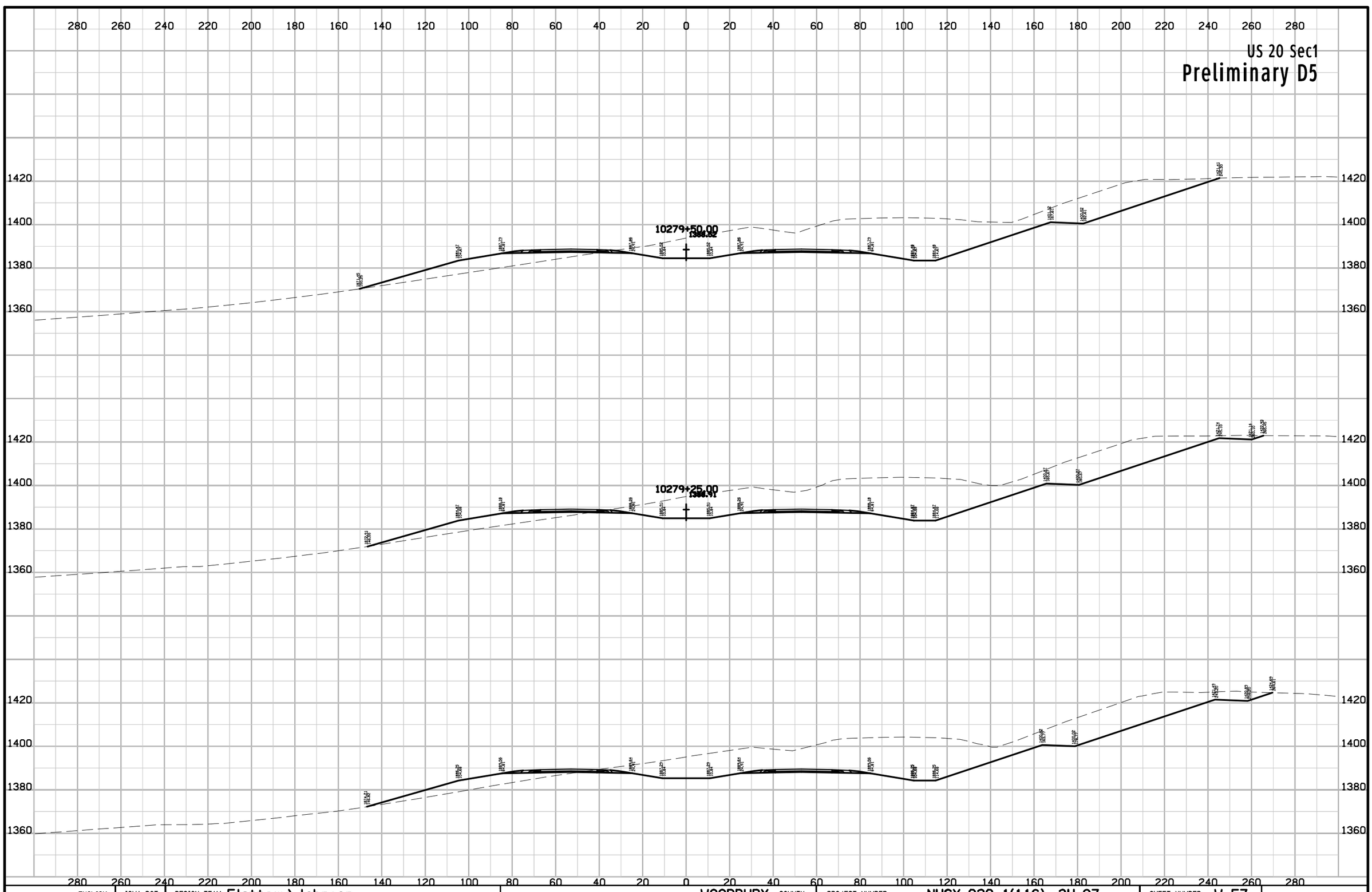
US 20 Sec1

Preliminary D5



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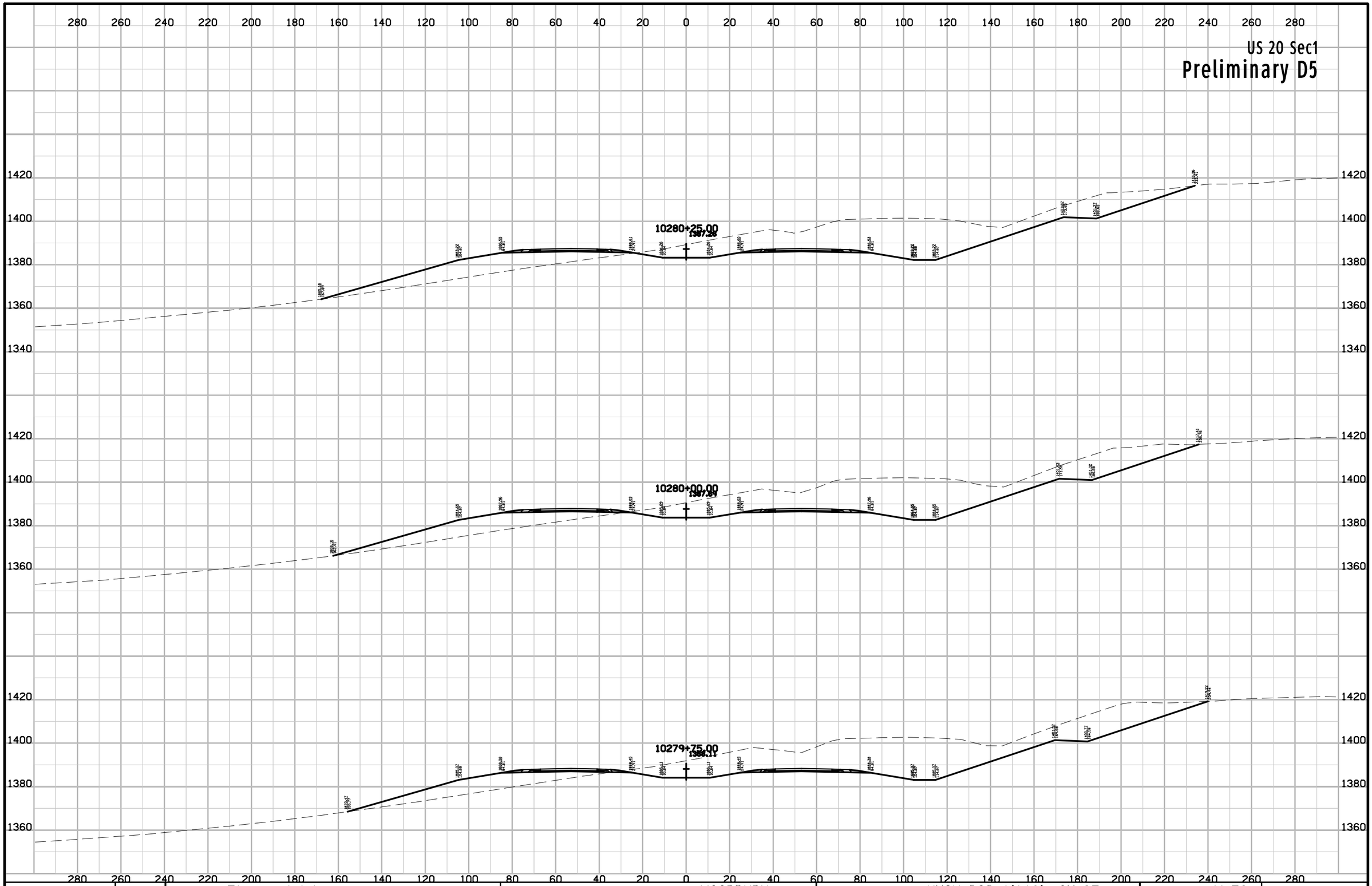
US 20 Sec1

Preliminary D5



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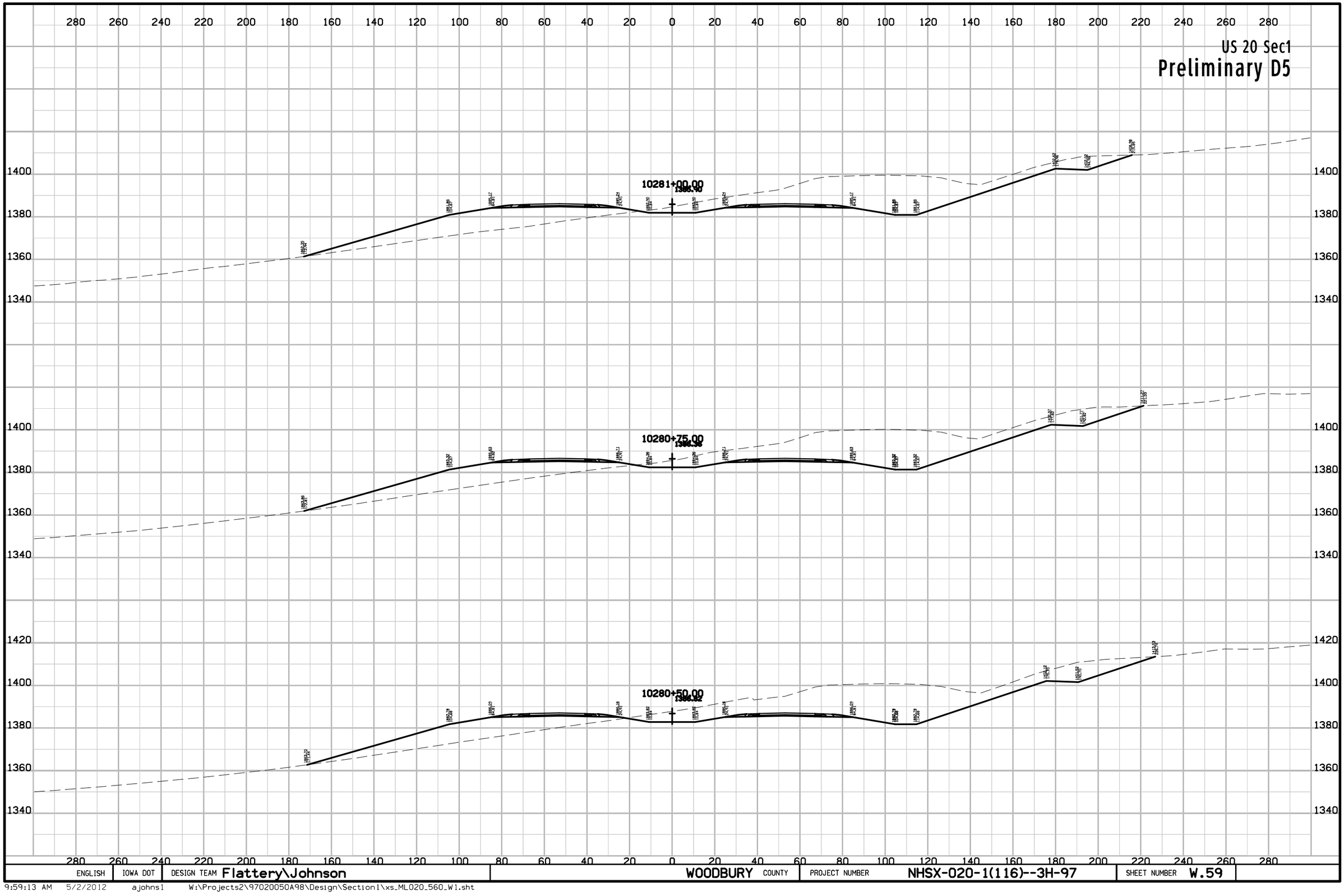
US 20 Sec1

Preliminary D5



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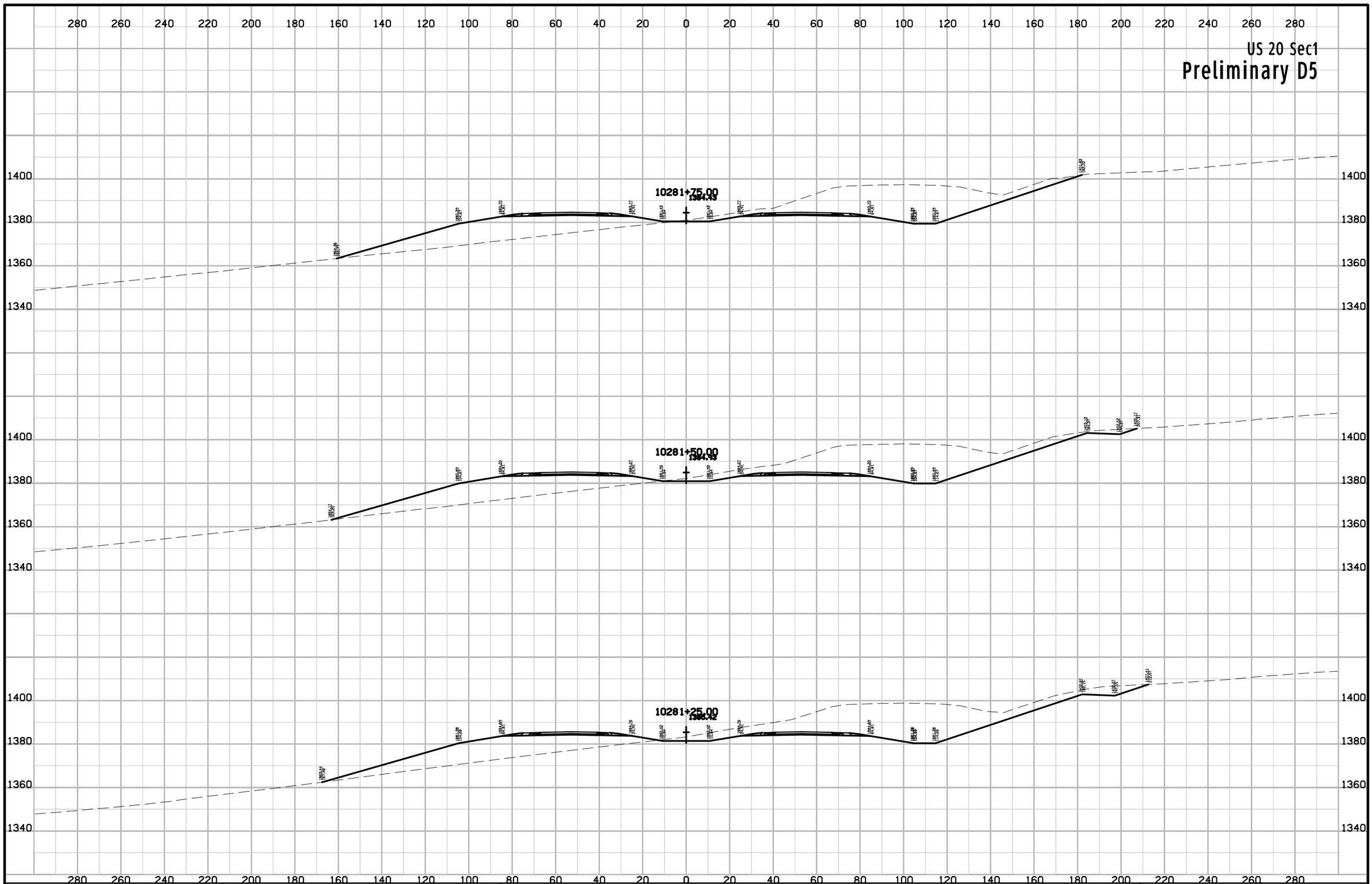
US 20 Sec1

Preliminary D5



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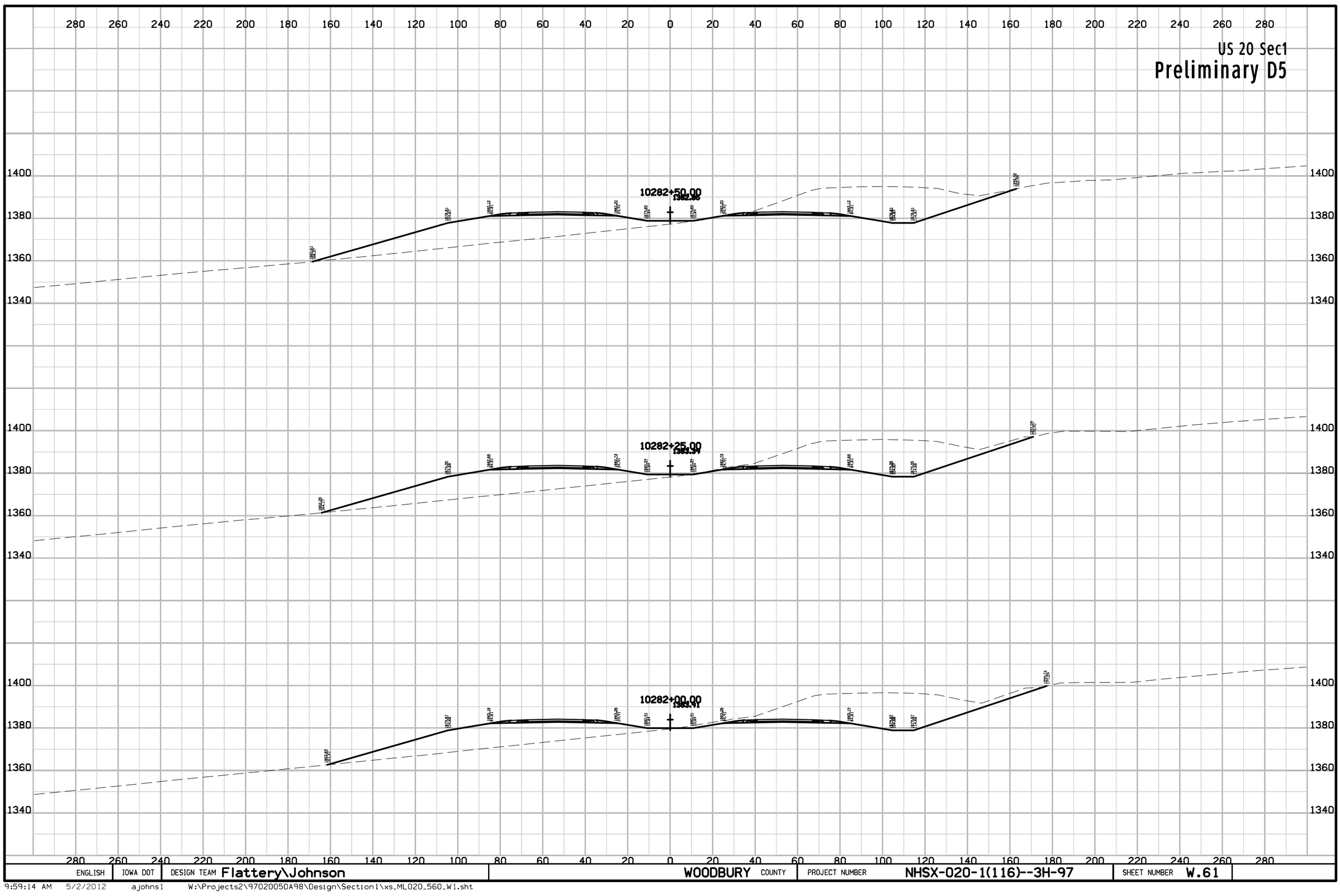
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.61

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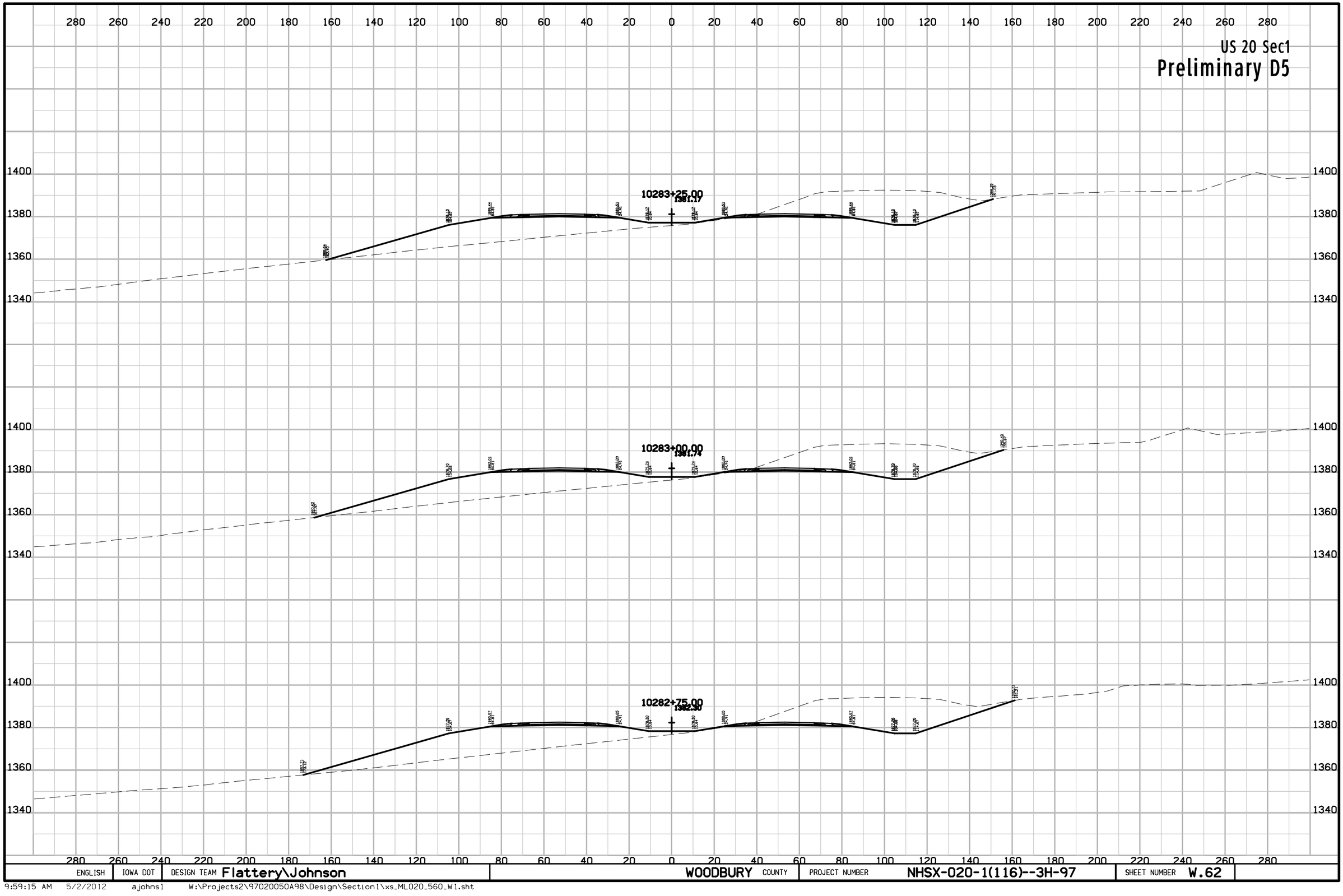
US 20 Sec1

Preliminary D5



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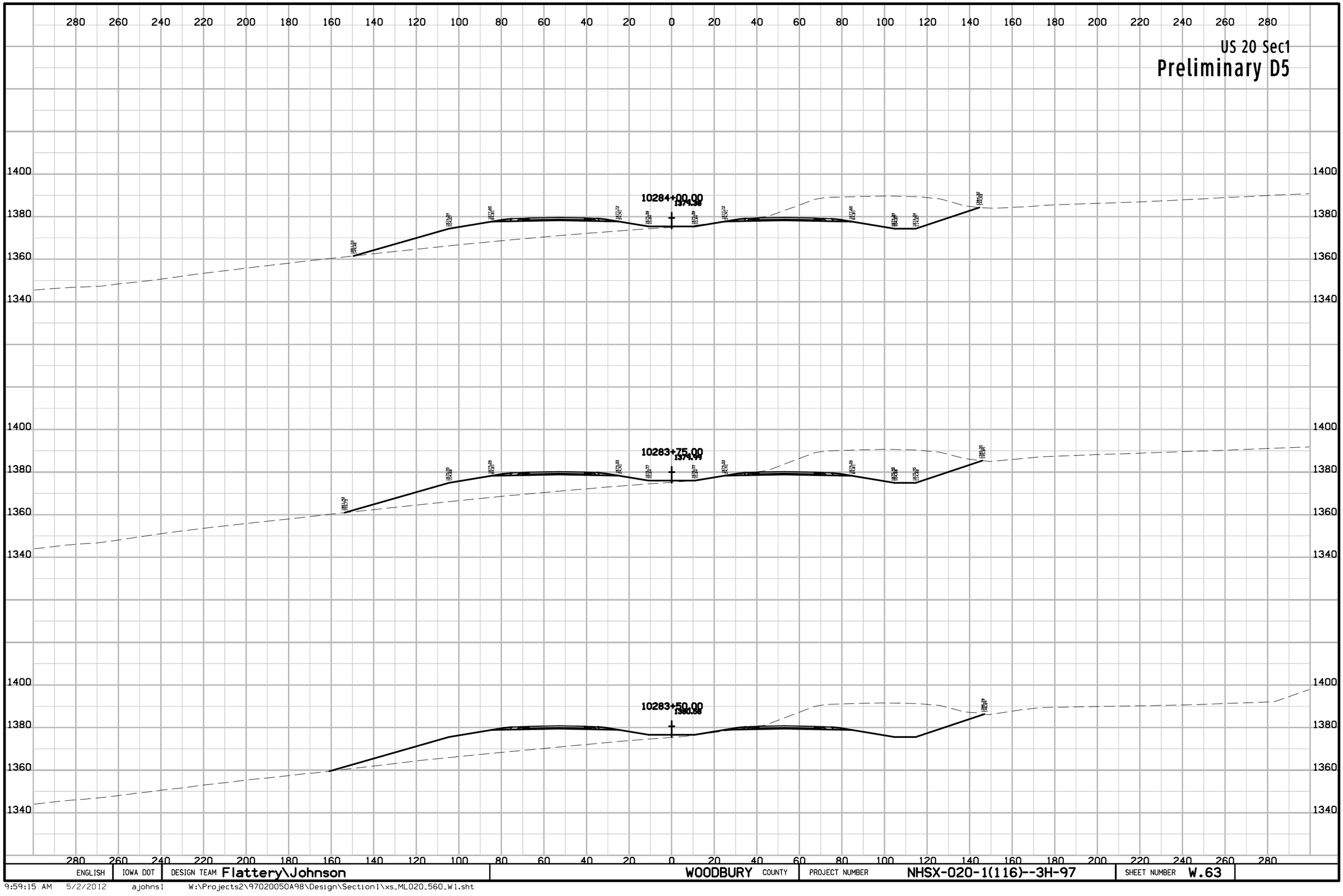
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.63

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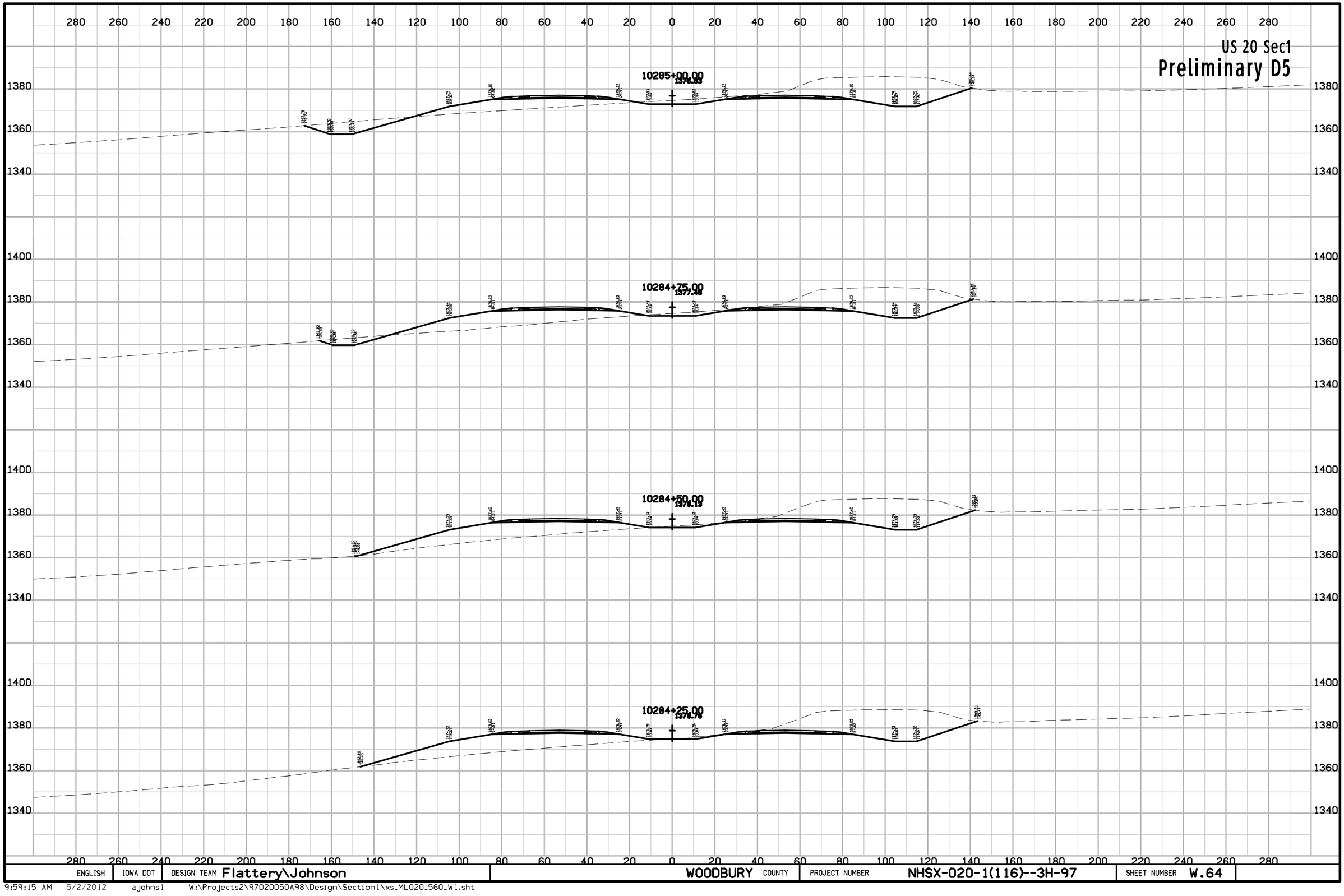
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.64

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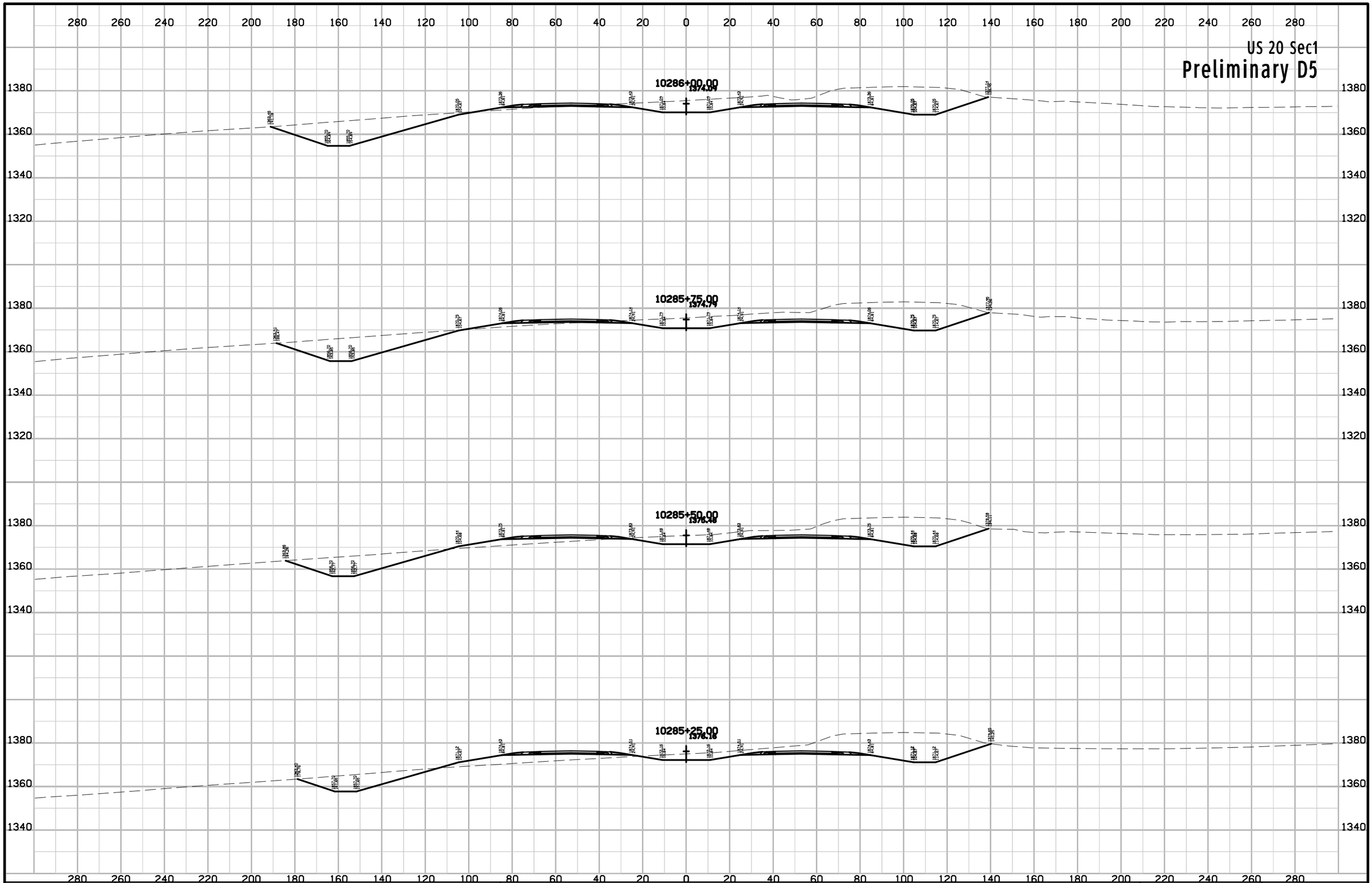
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.65

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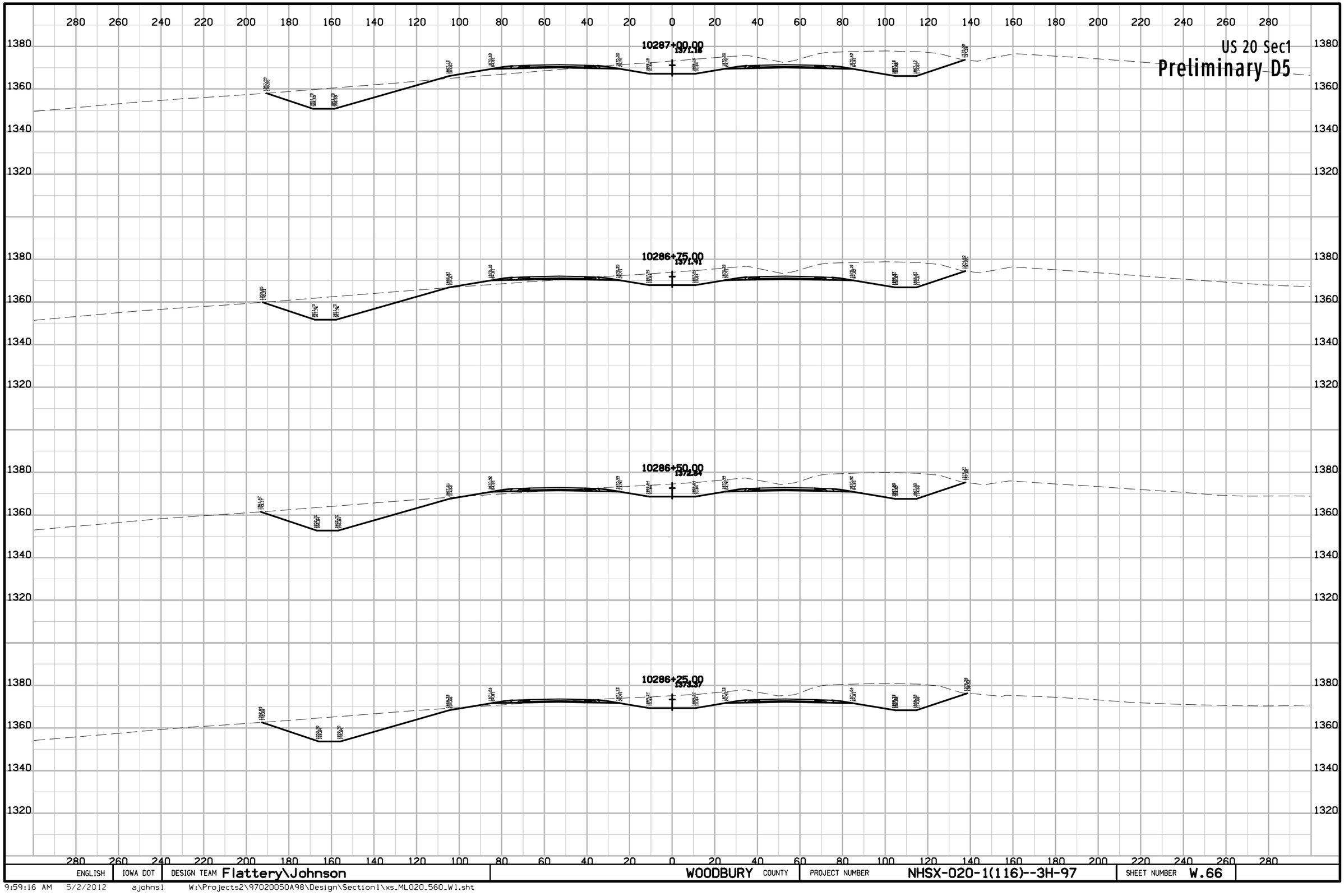
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.66

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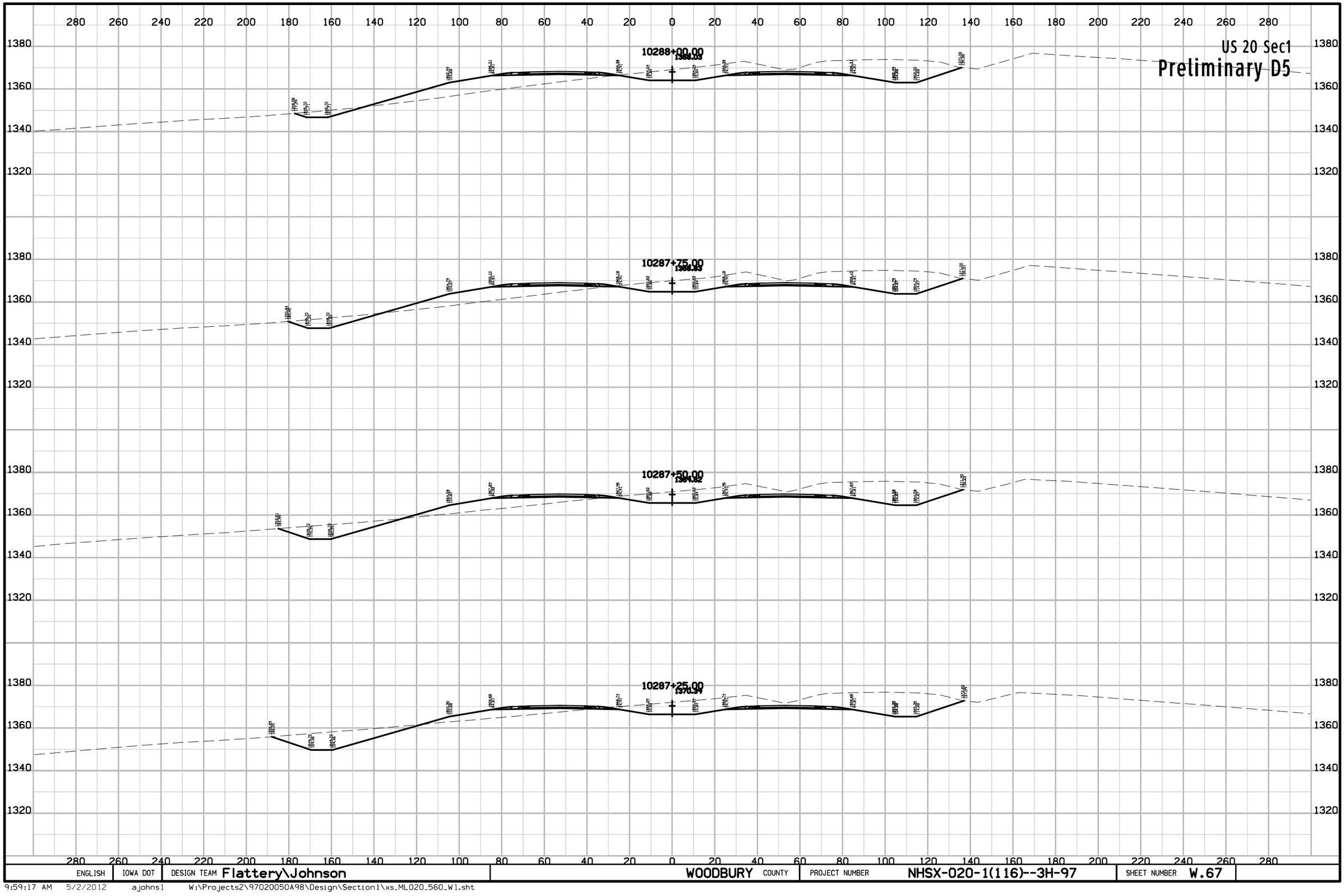
US 20 Sec1

Preliminary D5



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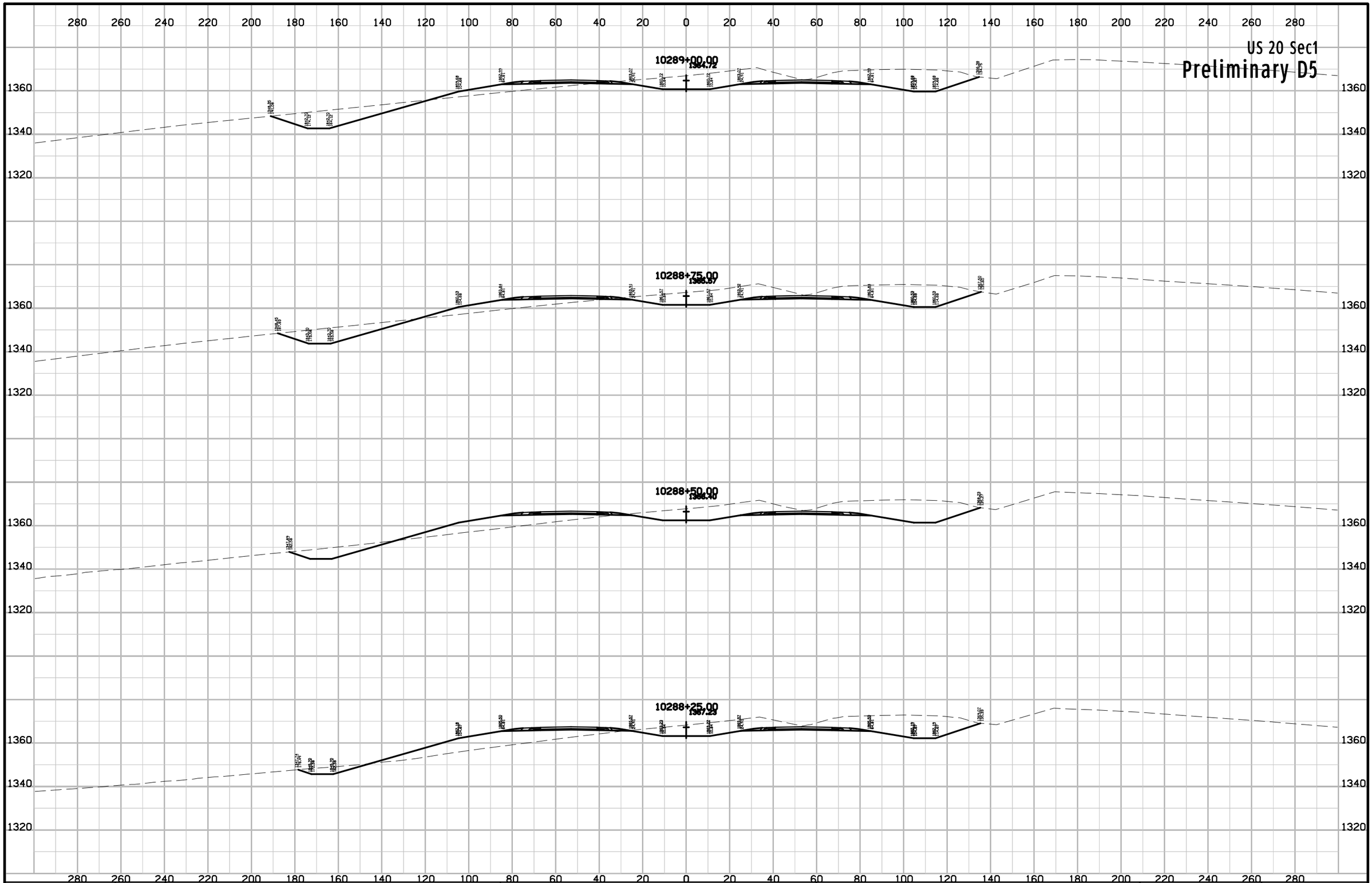
US 20 Sec1

Preliminary D5



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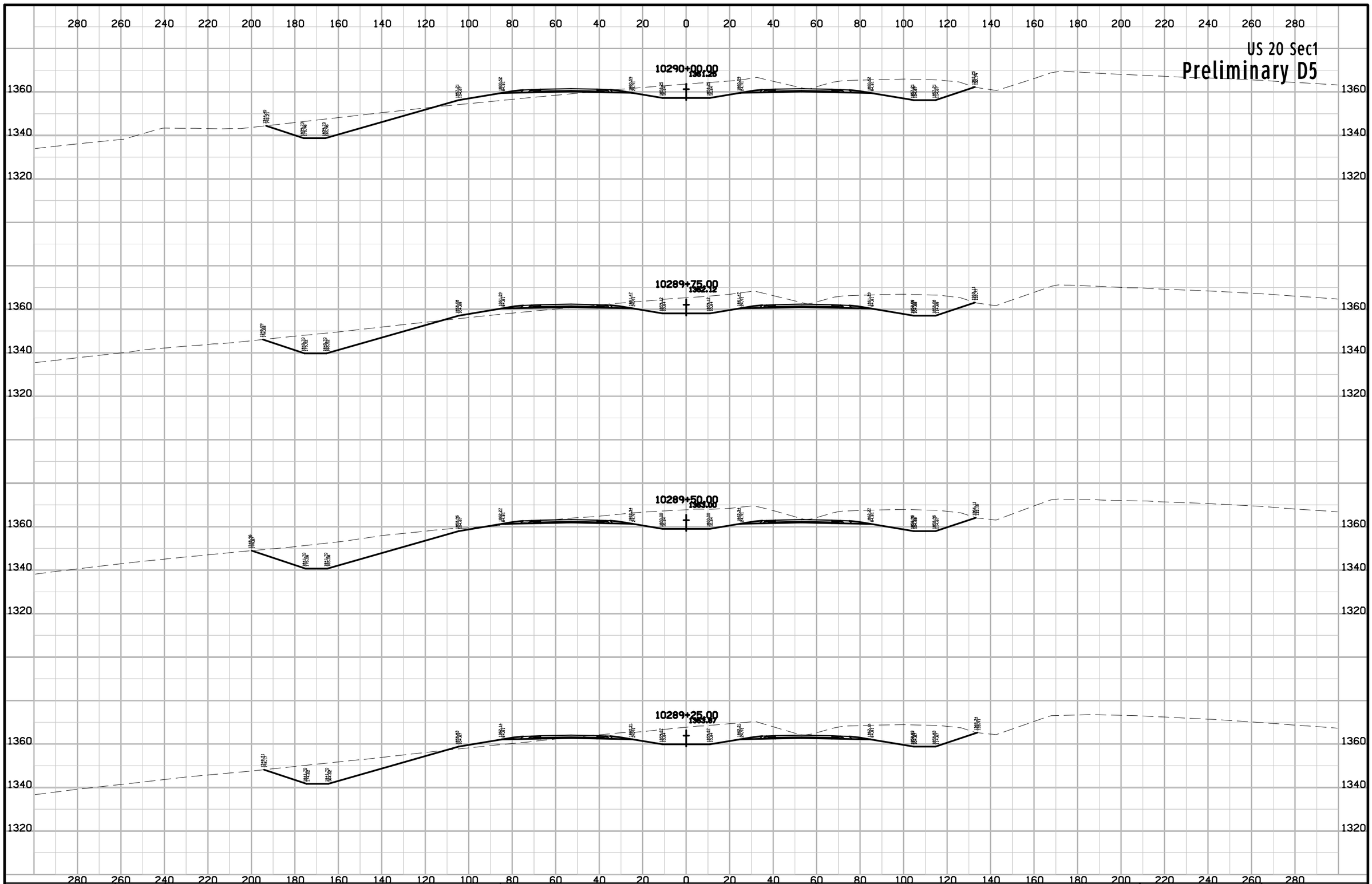
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.69

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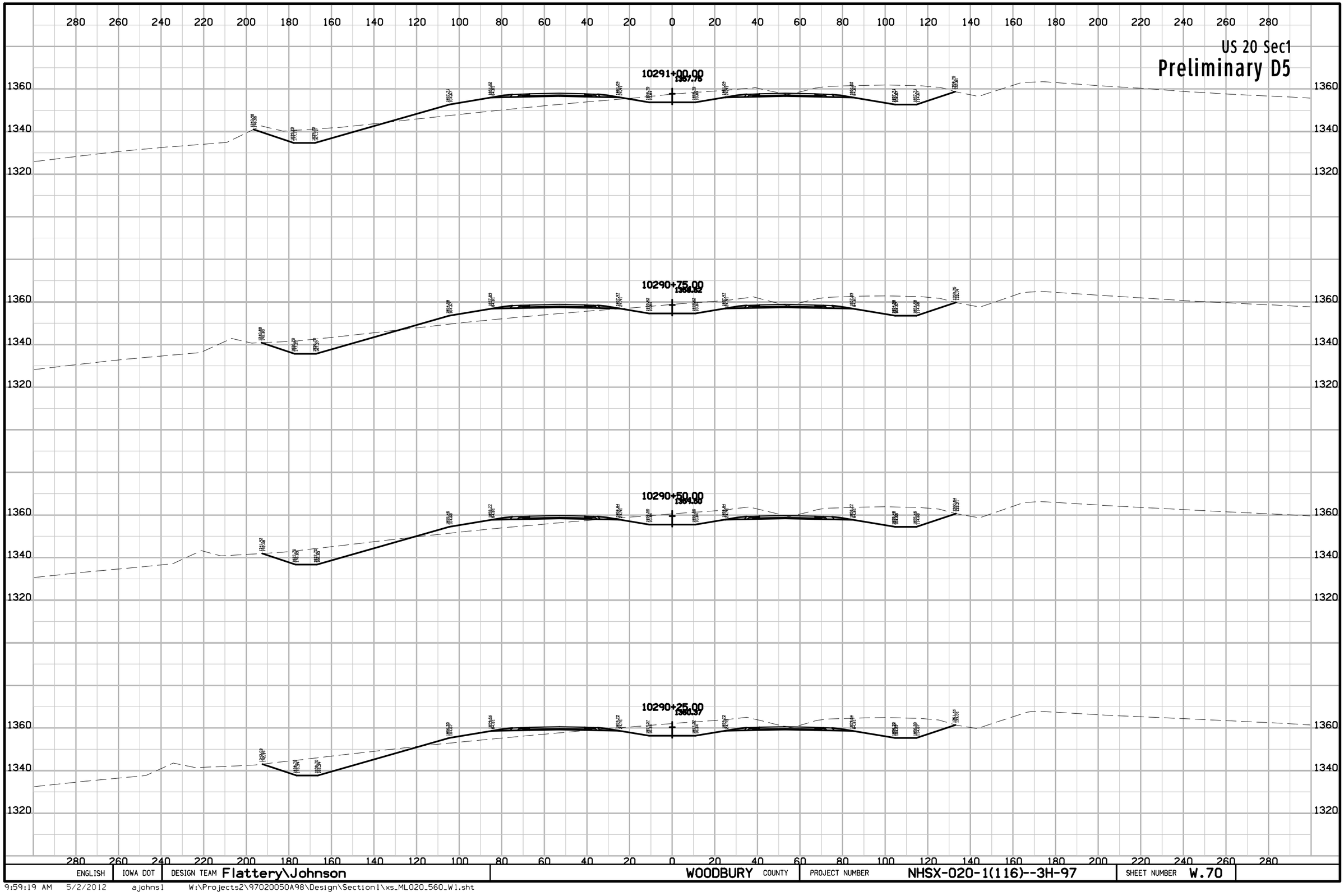
US 20 Sec1

Preliminary D5



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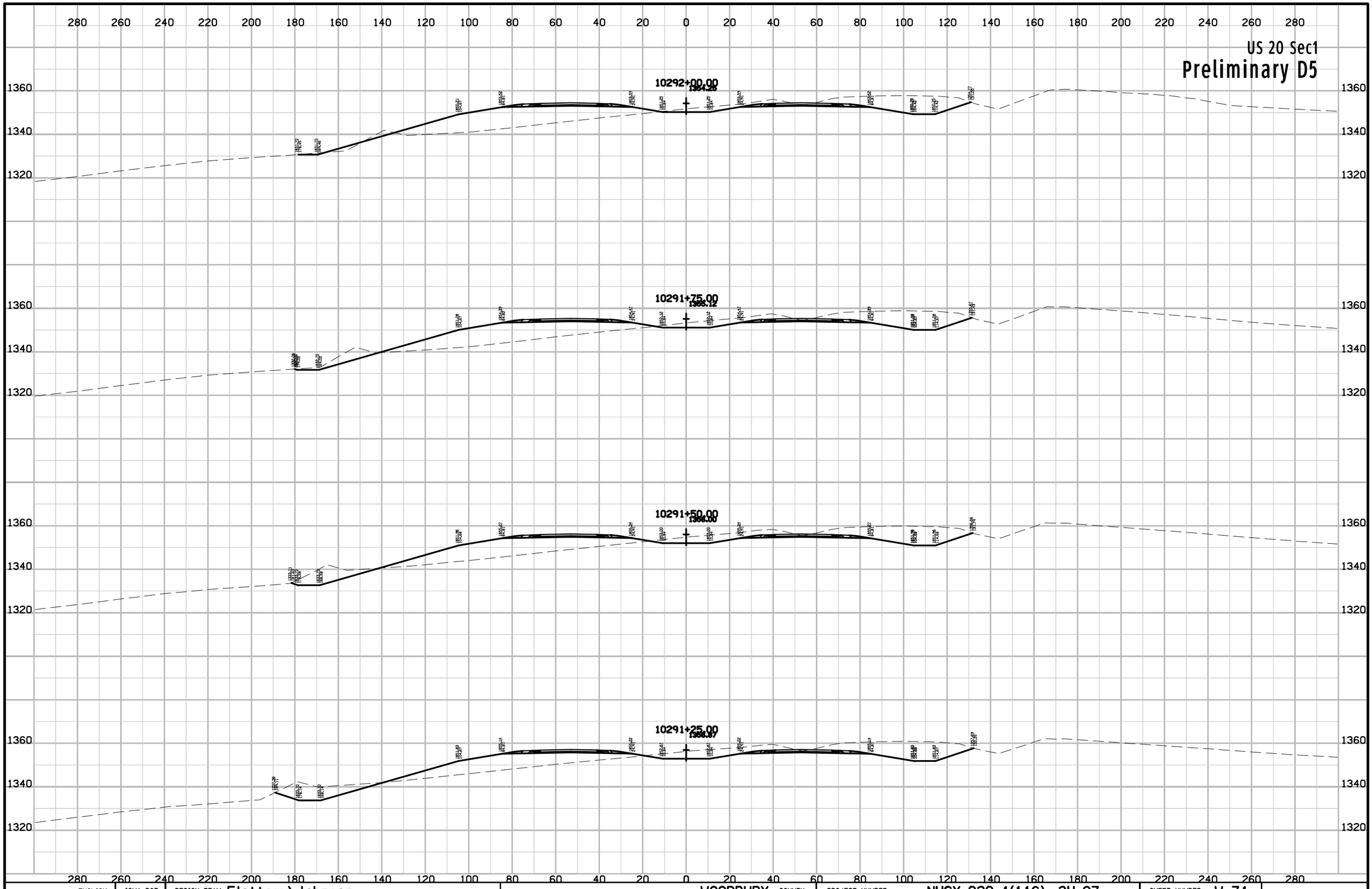
US 20 Sec1

Preliminary D5



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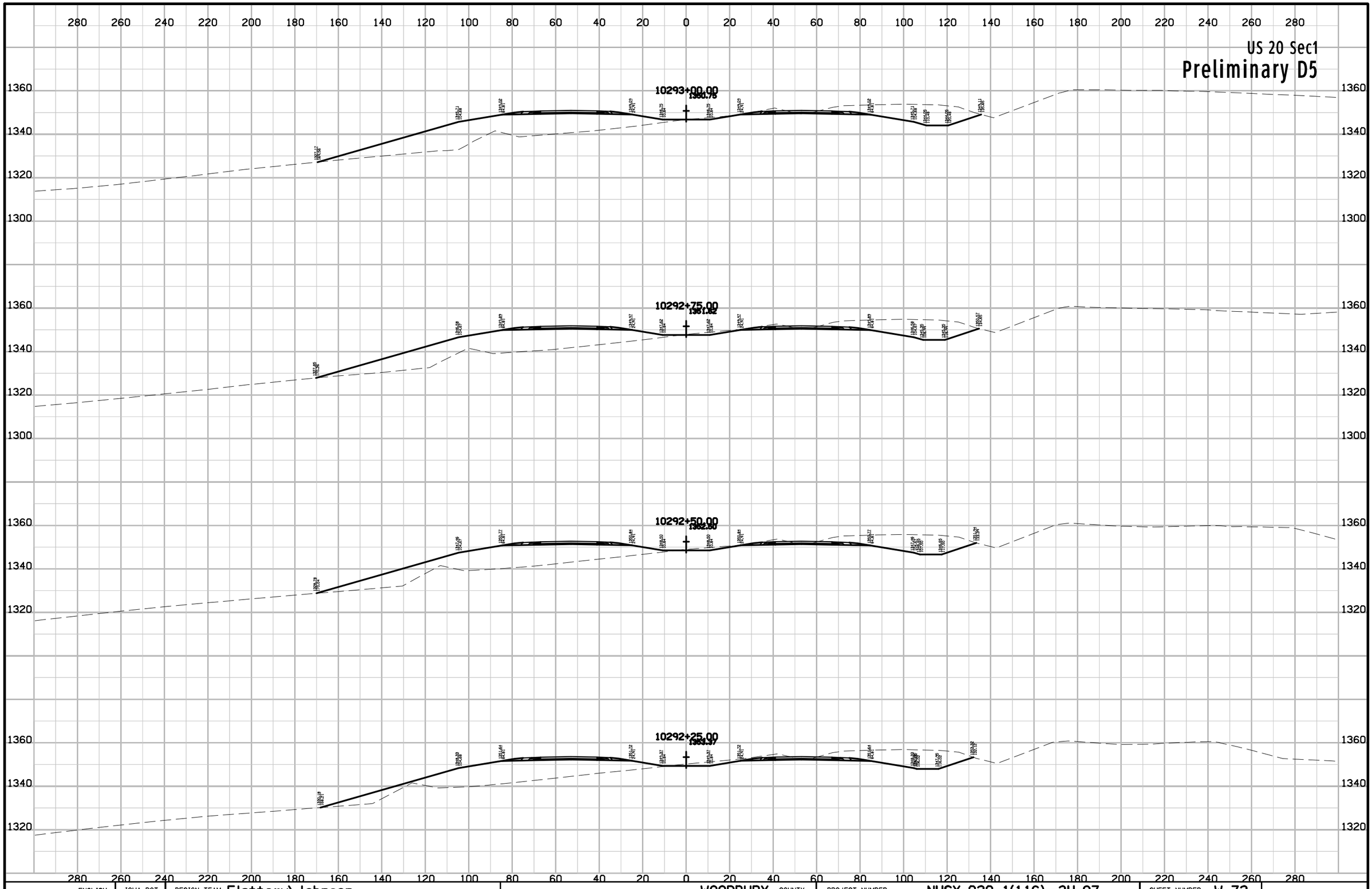
US 20 Sec1

Preliminary D5



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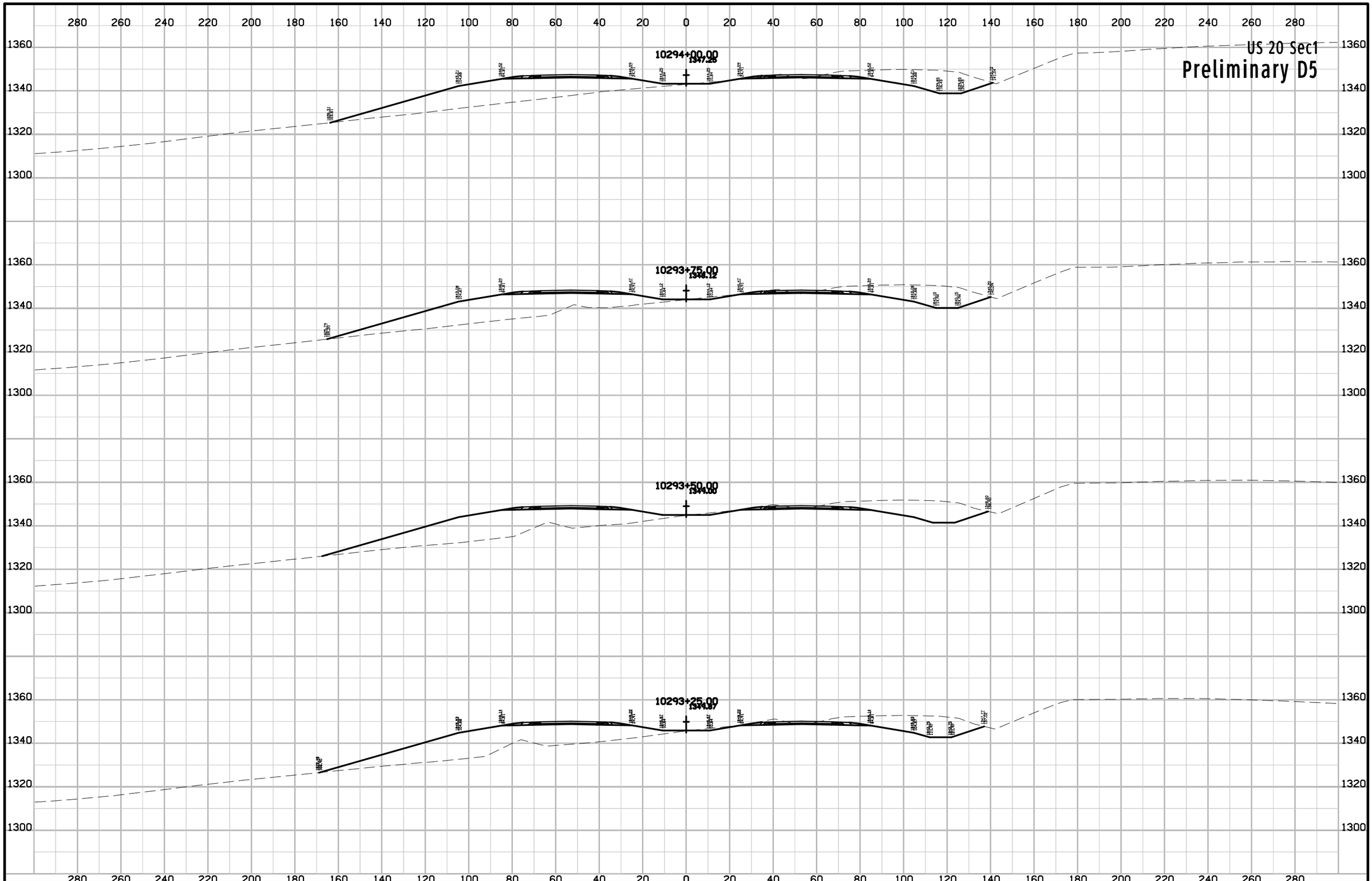
US 20 Sec1

Preliminary D5



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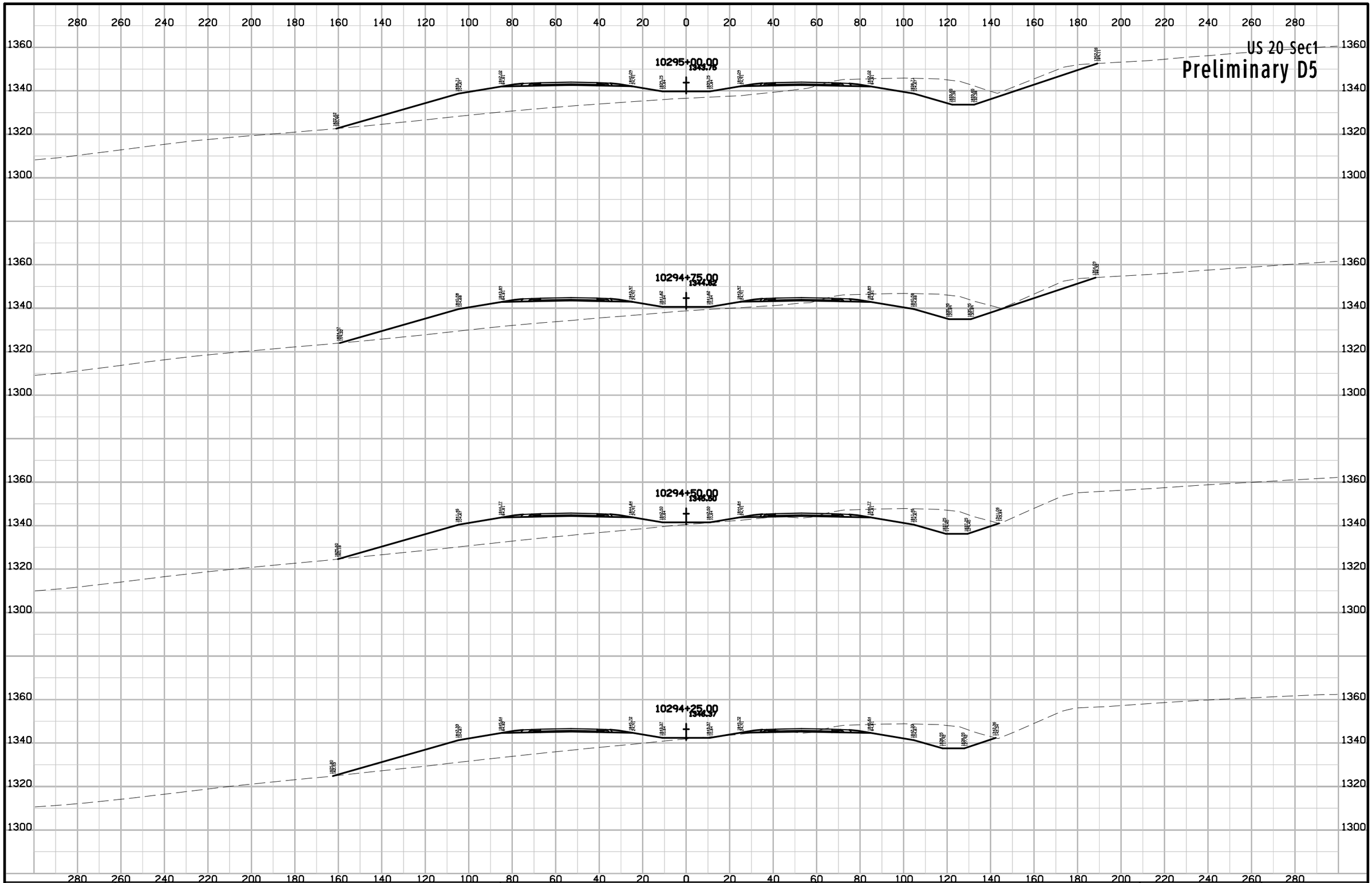
US 20 Sec1

Preliminary D5



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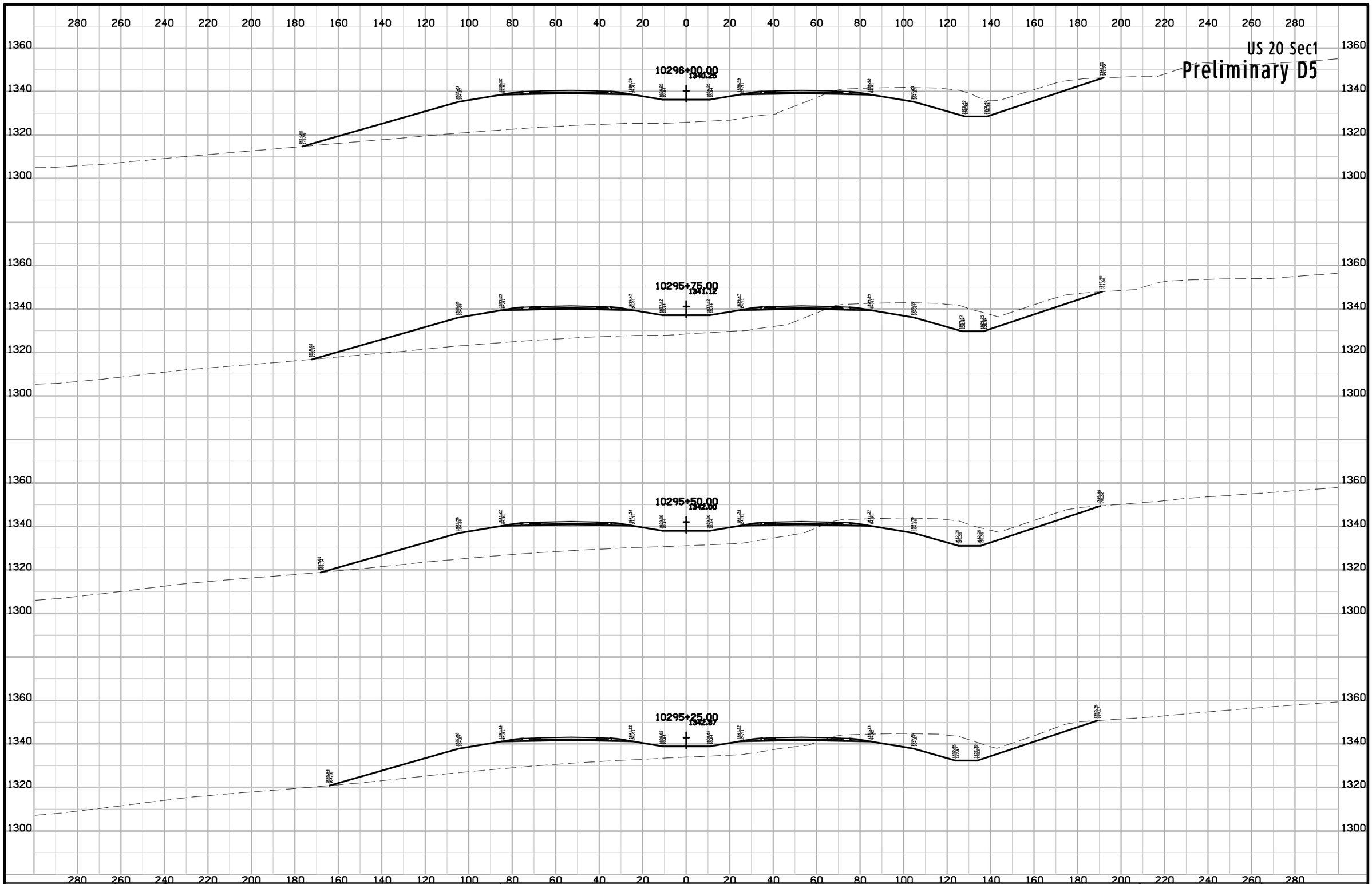
US 20 Sec1

Preliminary D5



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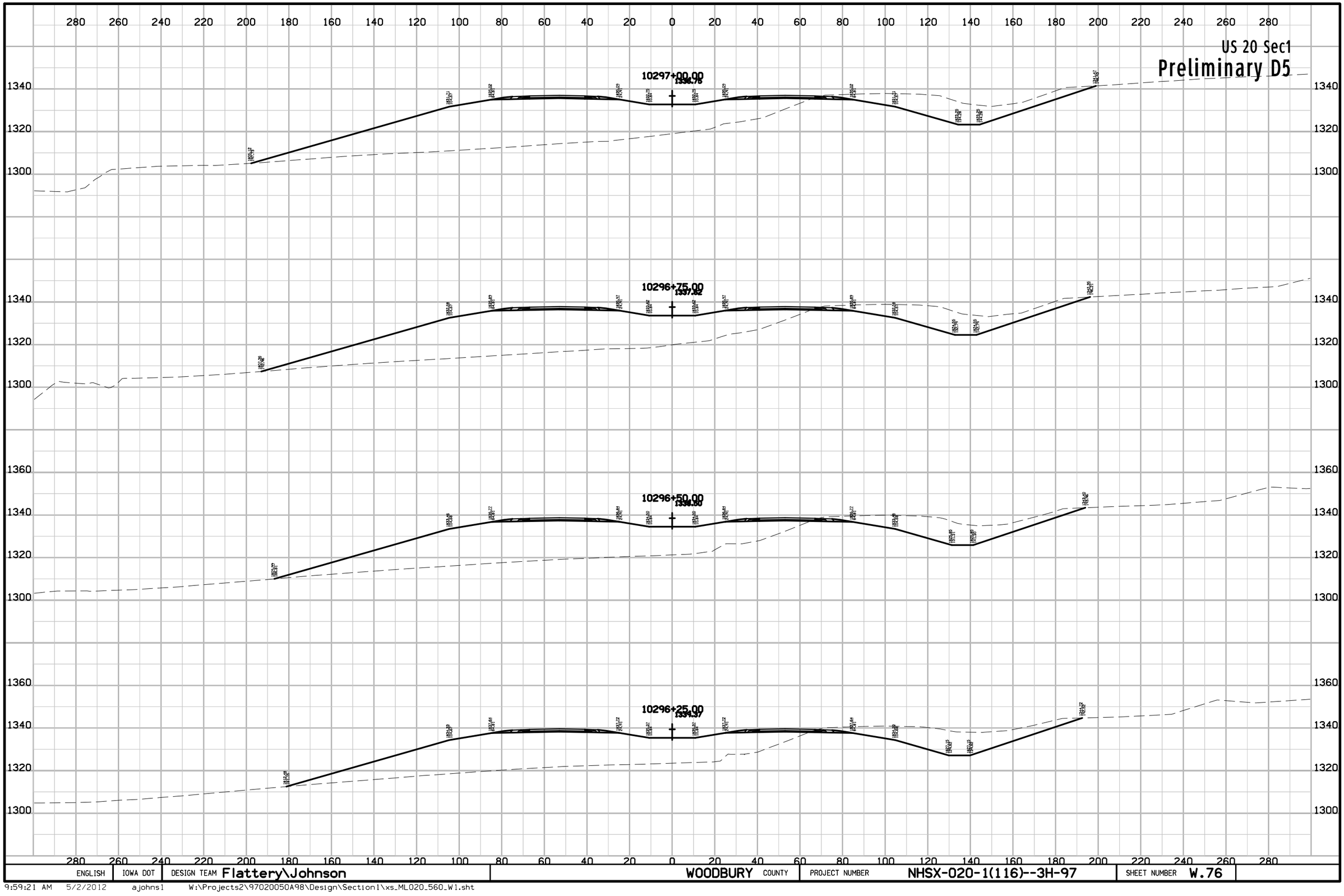
US 20 Sec1

Preliminary D5



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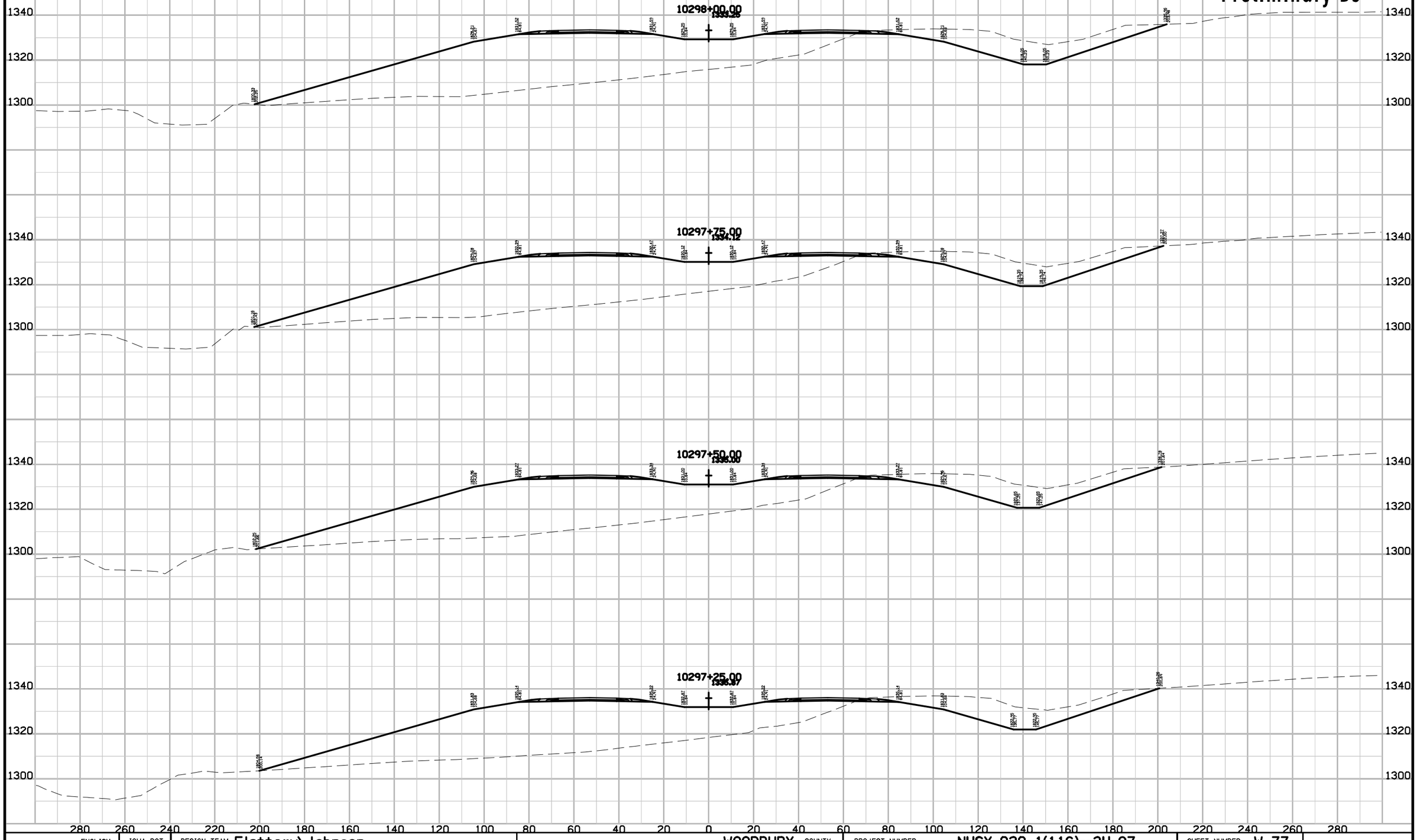
US 20 Sec1

Preliminary D5



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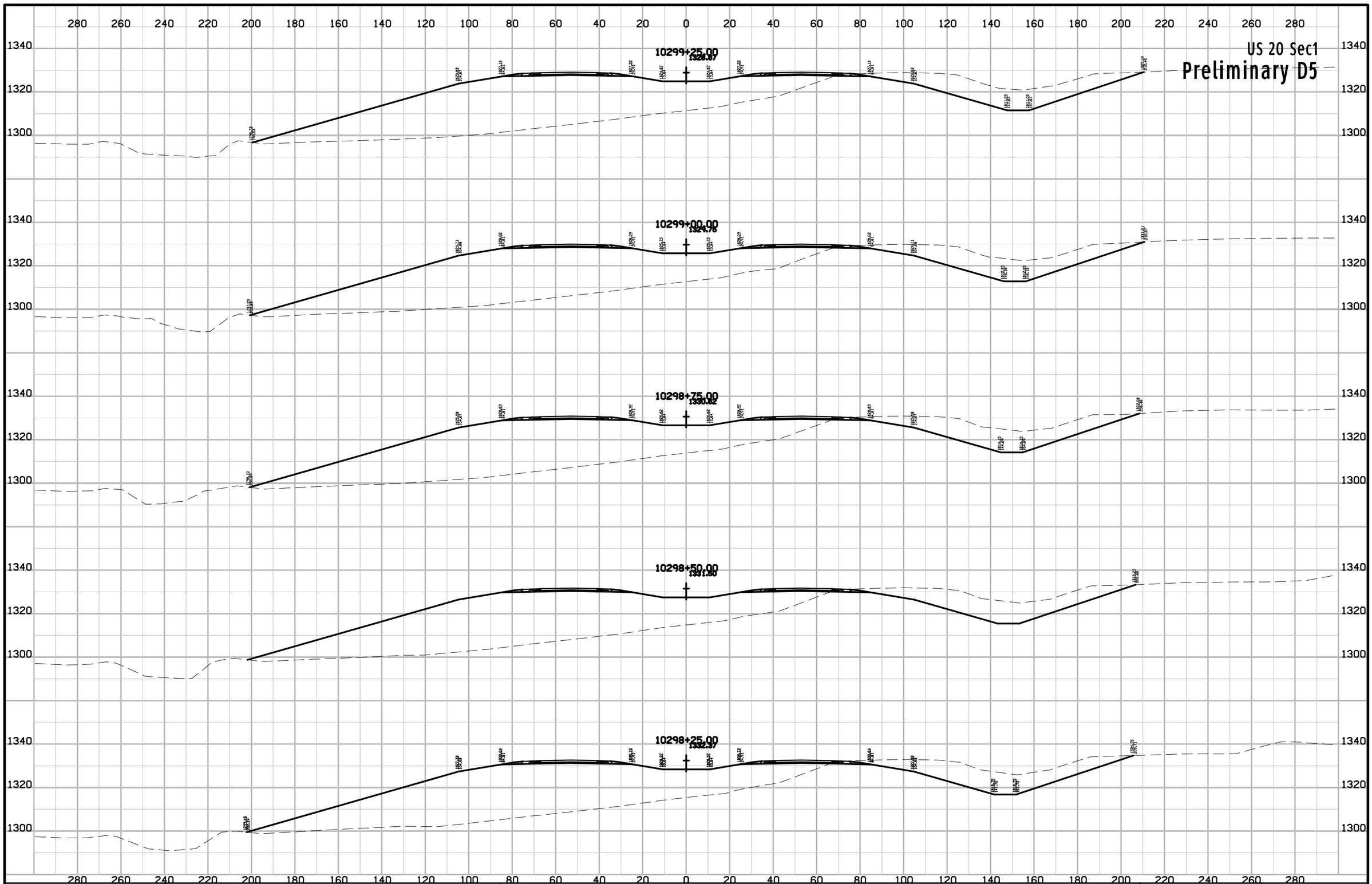
US 20 Sec1

Preliminary D5



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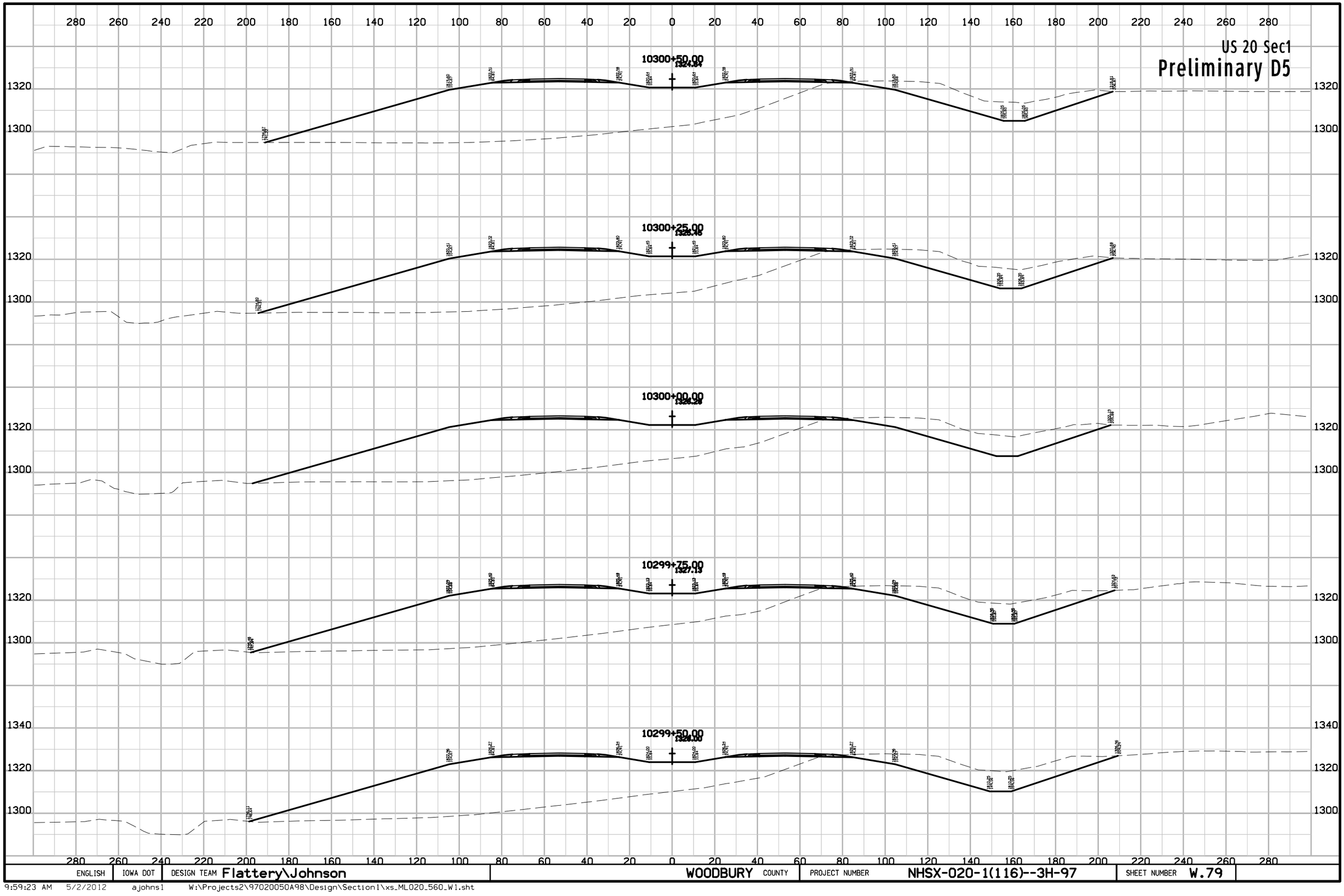
US 20 Sec1

Preliminary D5



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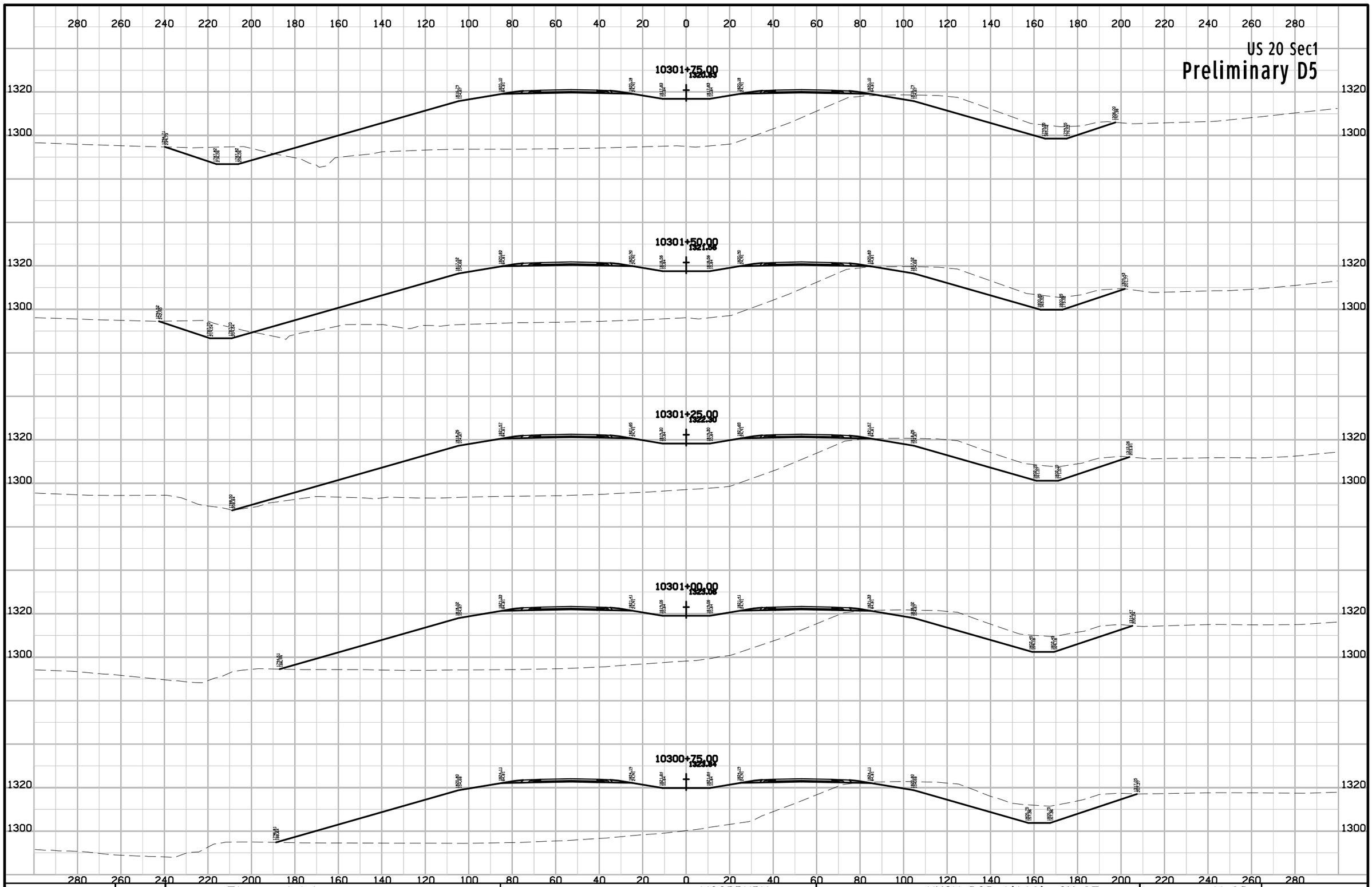
US 20 Sec1

Preliminary D5



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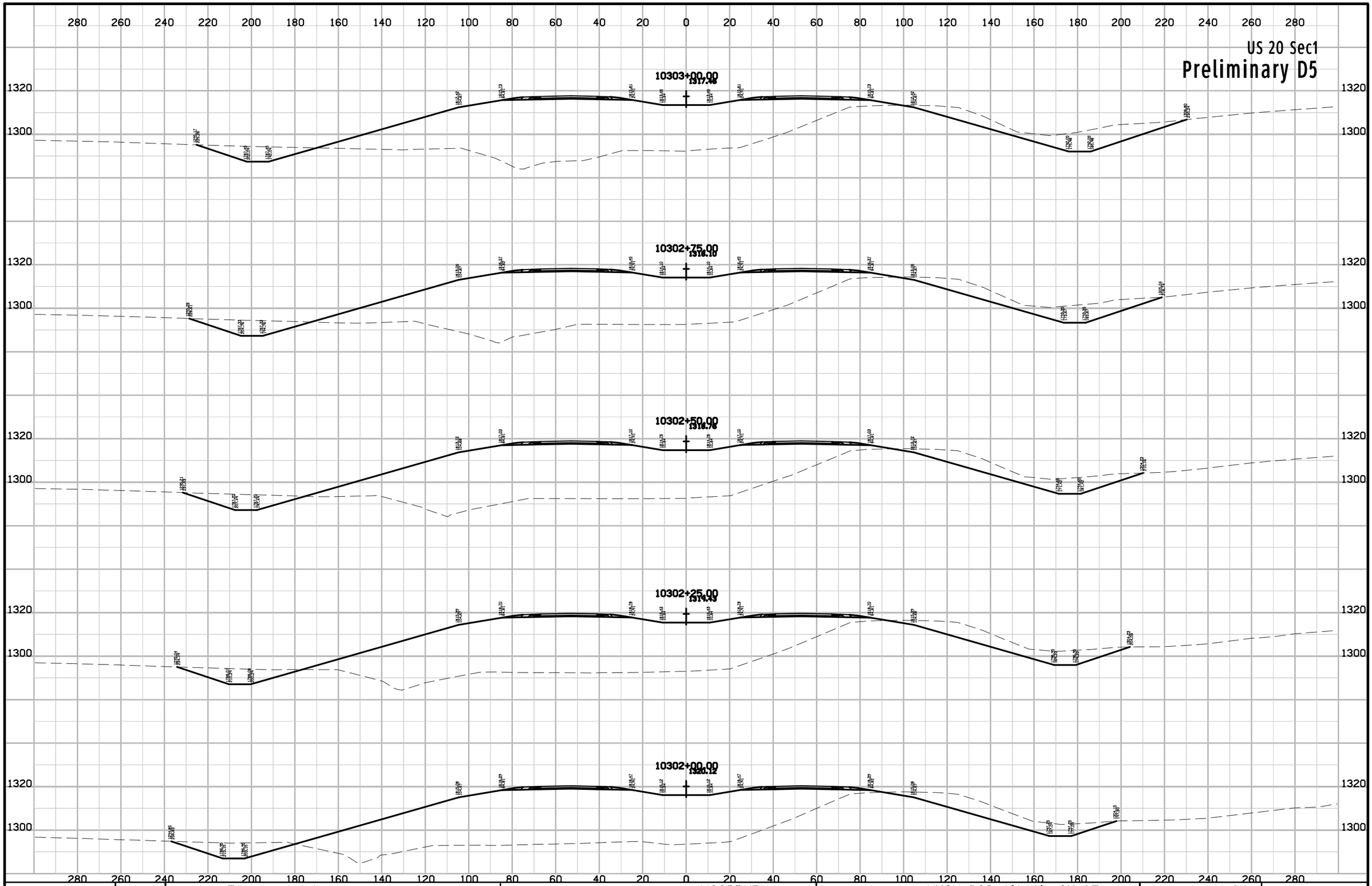
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

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1320
1300

10304+25.00
1314.39

10304+00.00
1315.08

10303+75.00
1315.86

10303+50.00
1316.24

10303+25.00
1316.94

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.82

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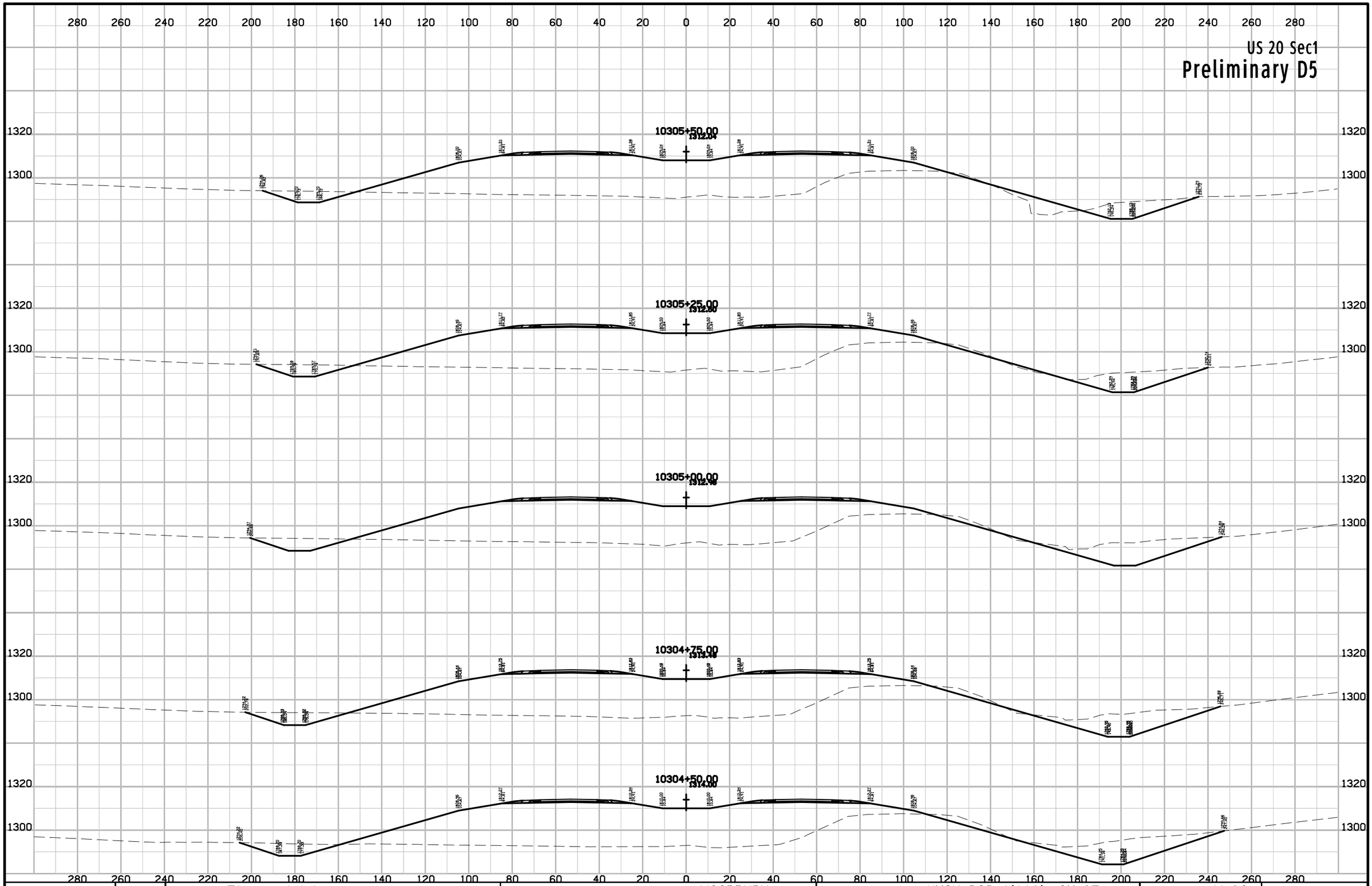
US 20 Sec1

Preliminary D5



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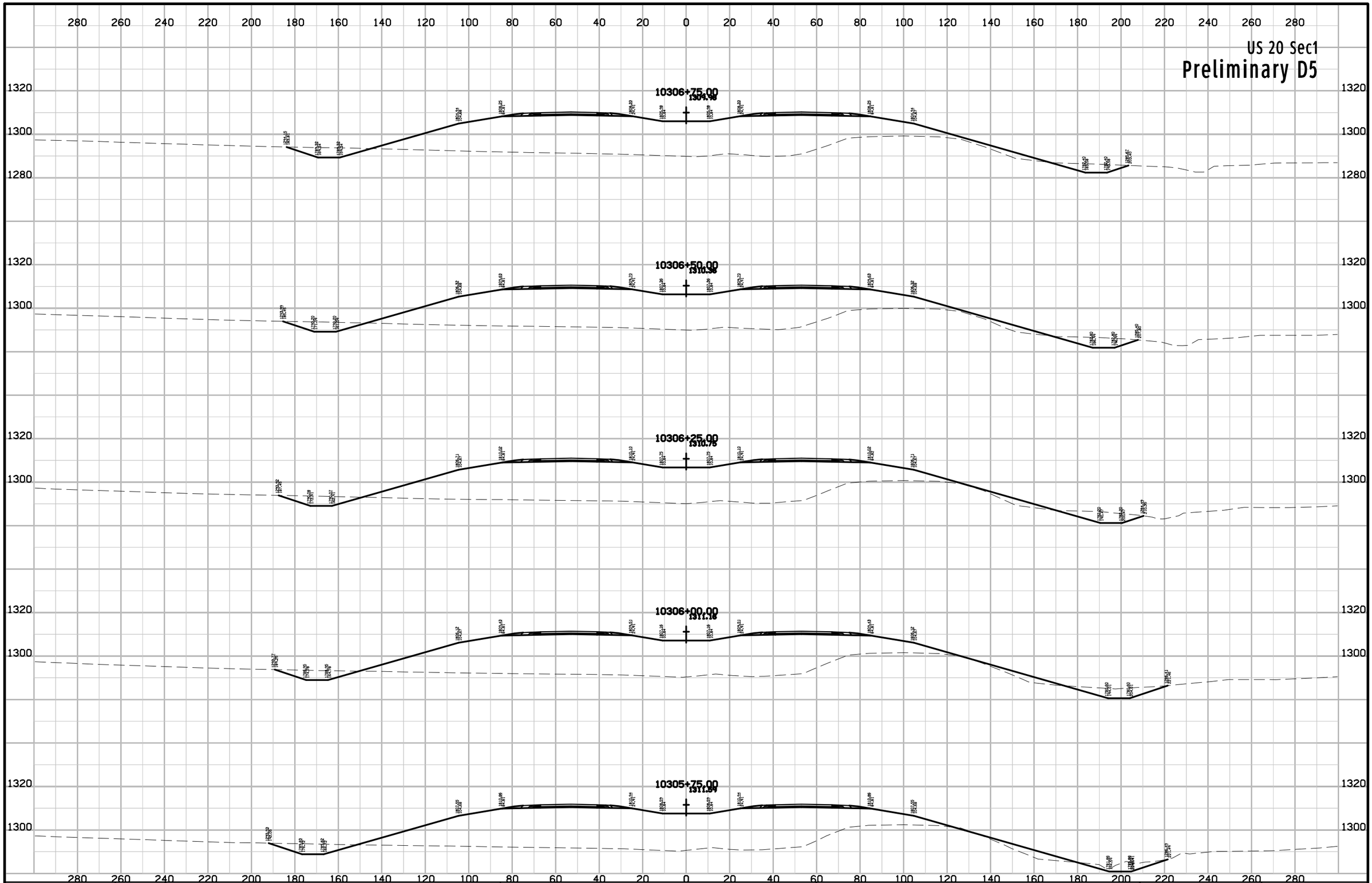
US 20 Sec1

Preliminary D5



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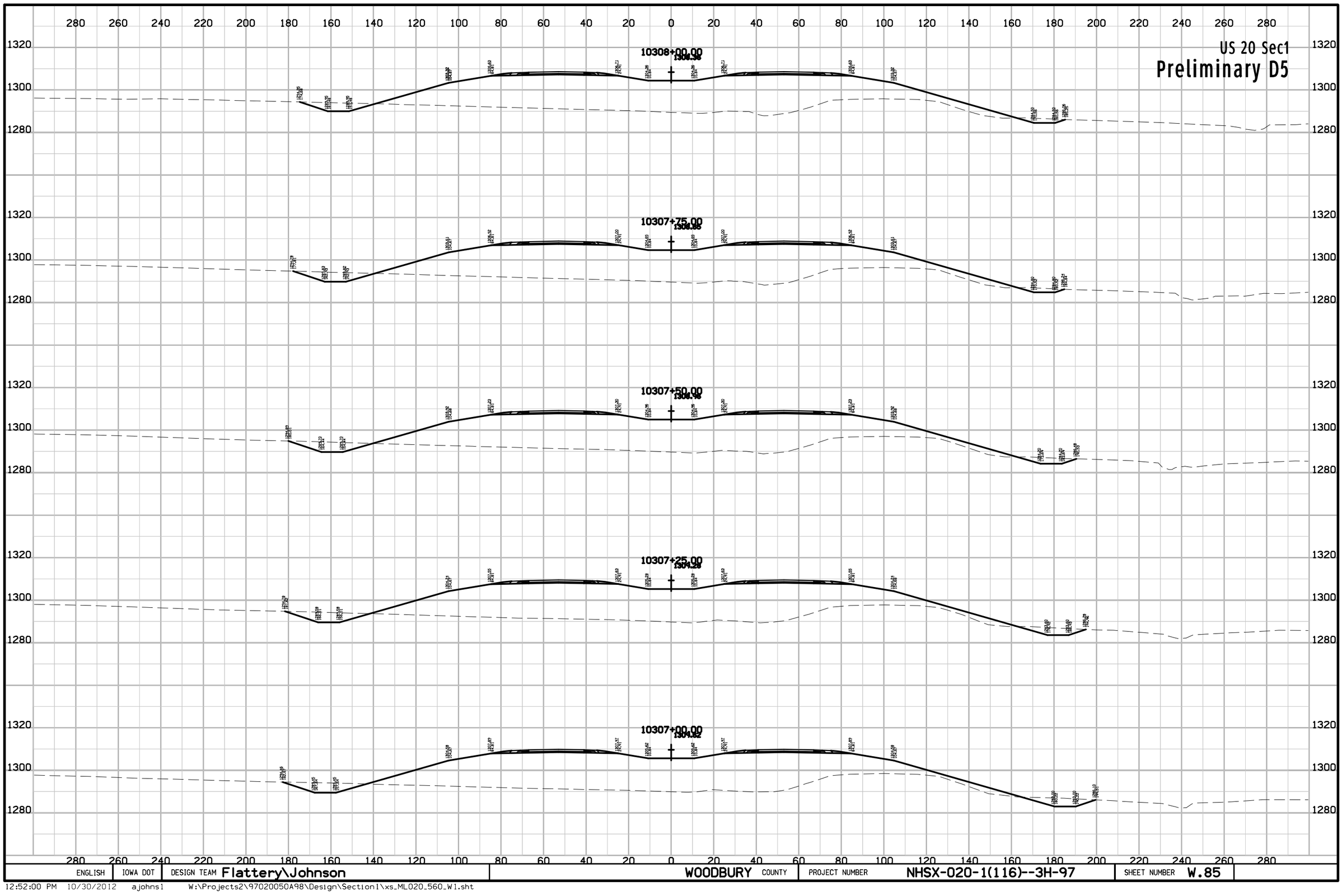
US 20 Sec1

Preliminary D5



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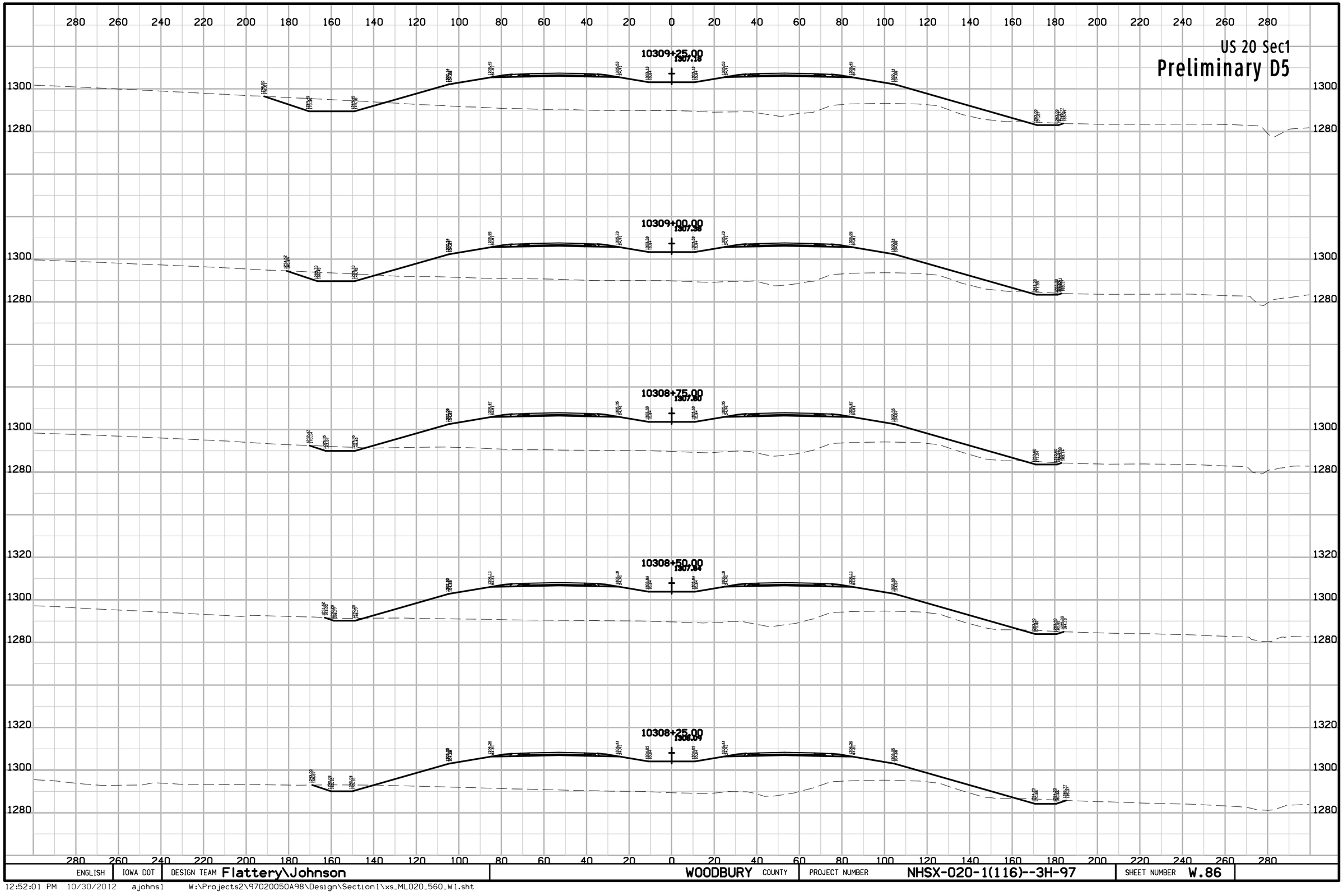
US 20 Sec1

Preliminary D5



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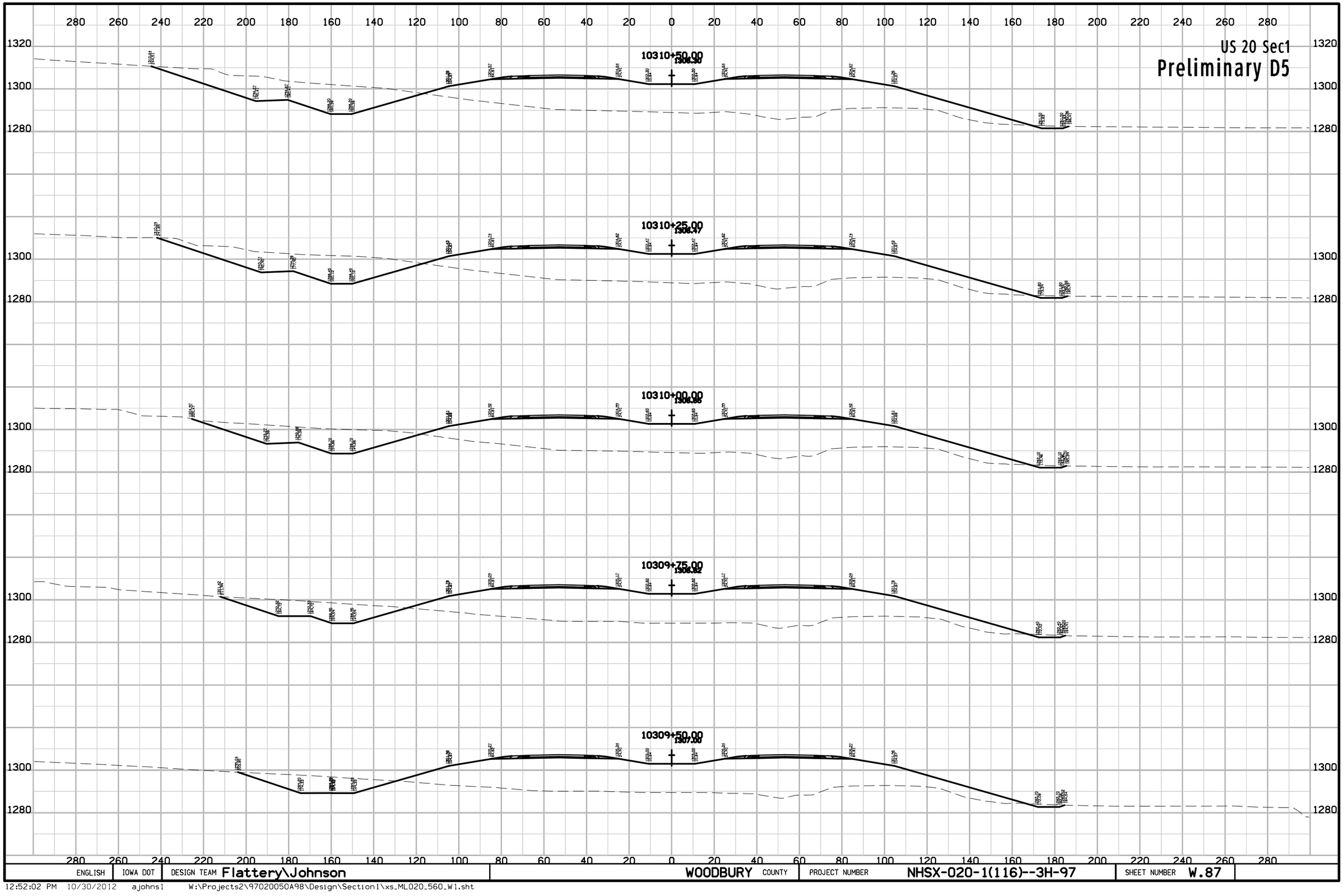
US 20 Sec1

Preliminary D5



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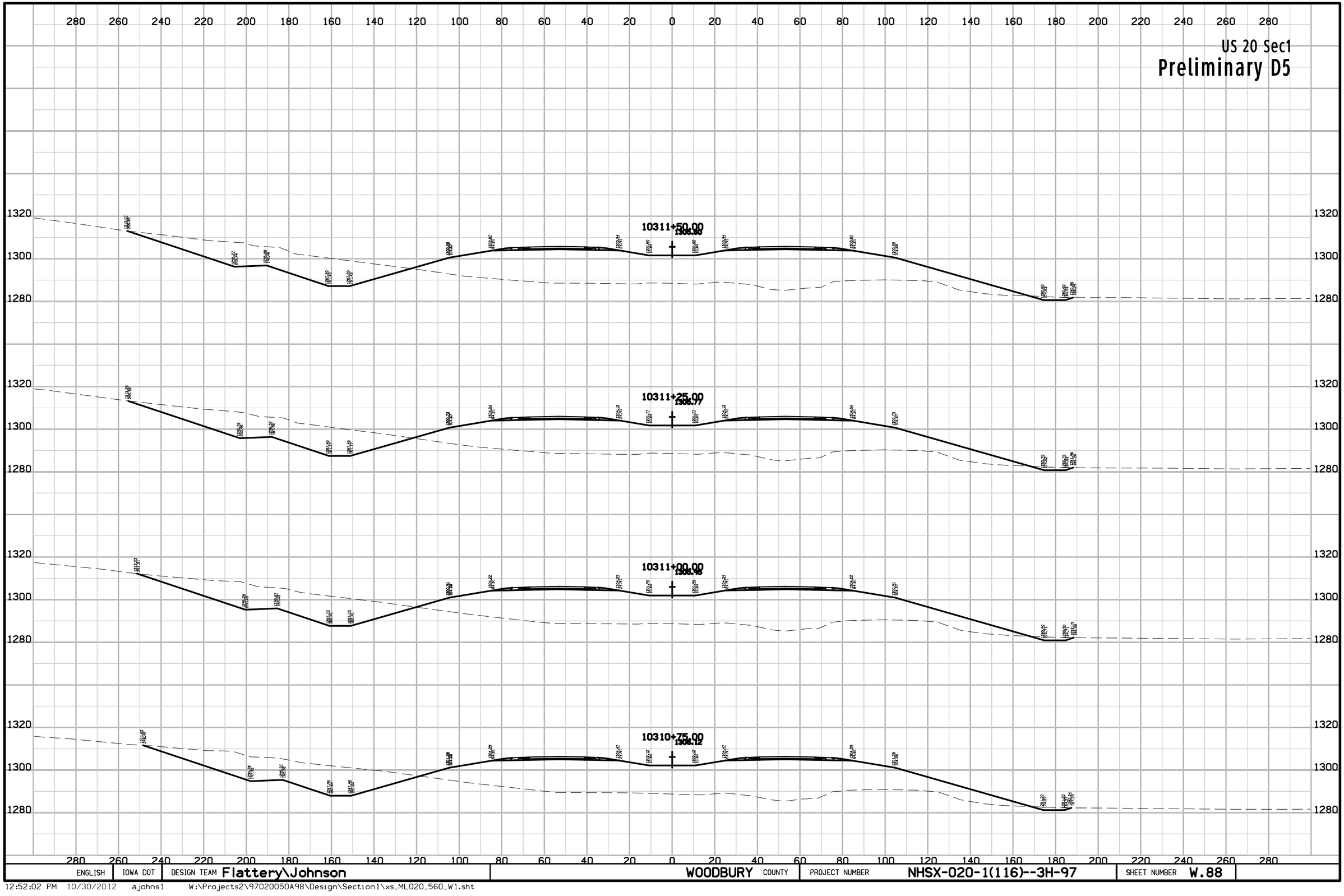
US 20 Sec1

Preliminary D5



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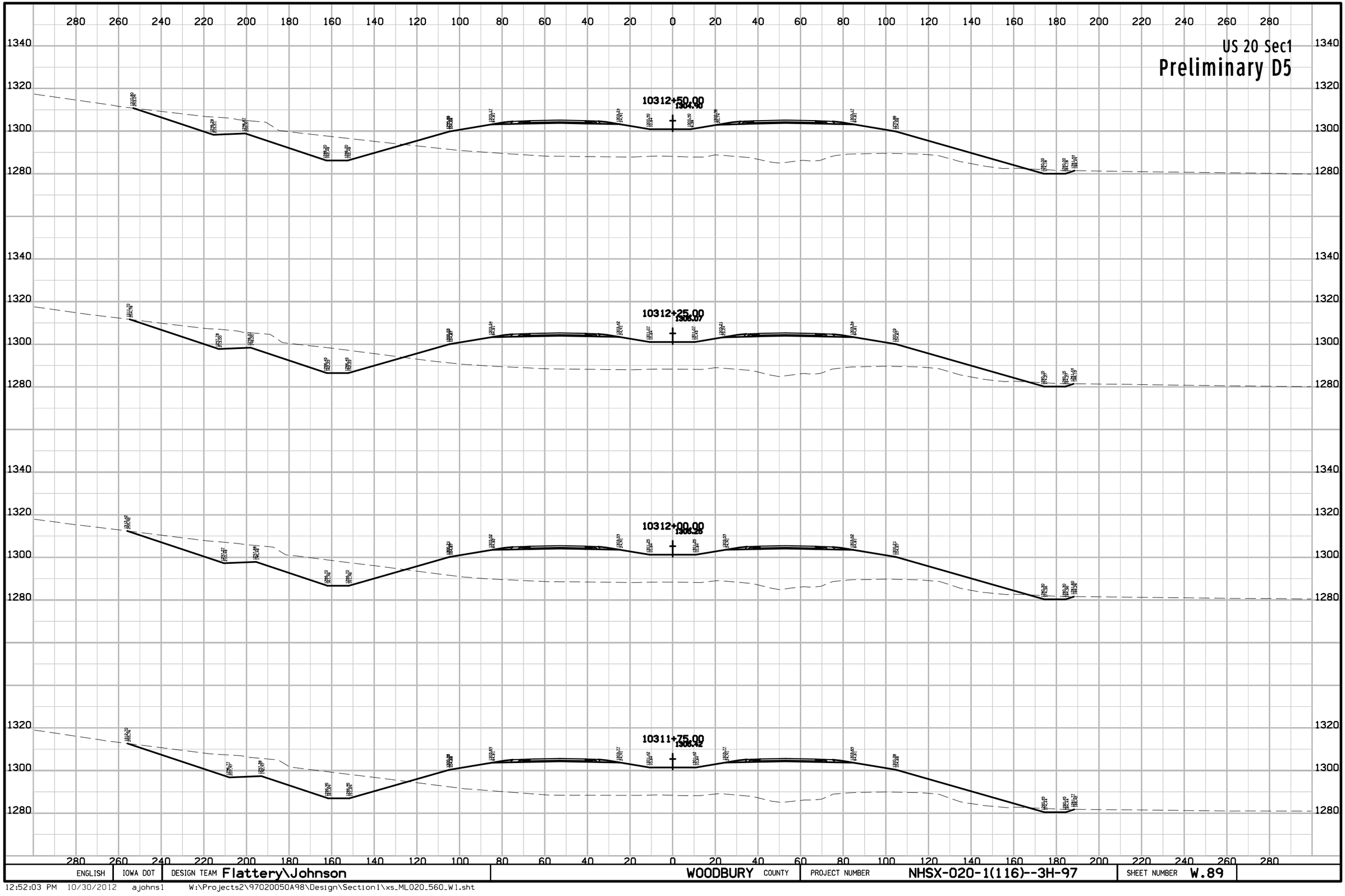
US 20 Sec1

Preliminary D5



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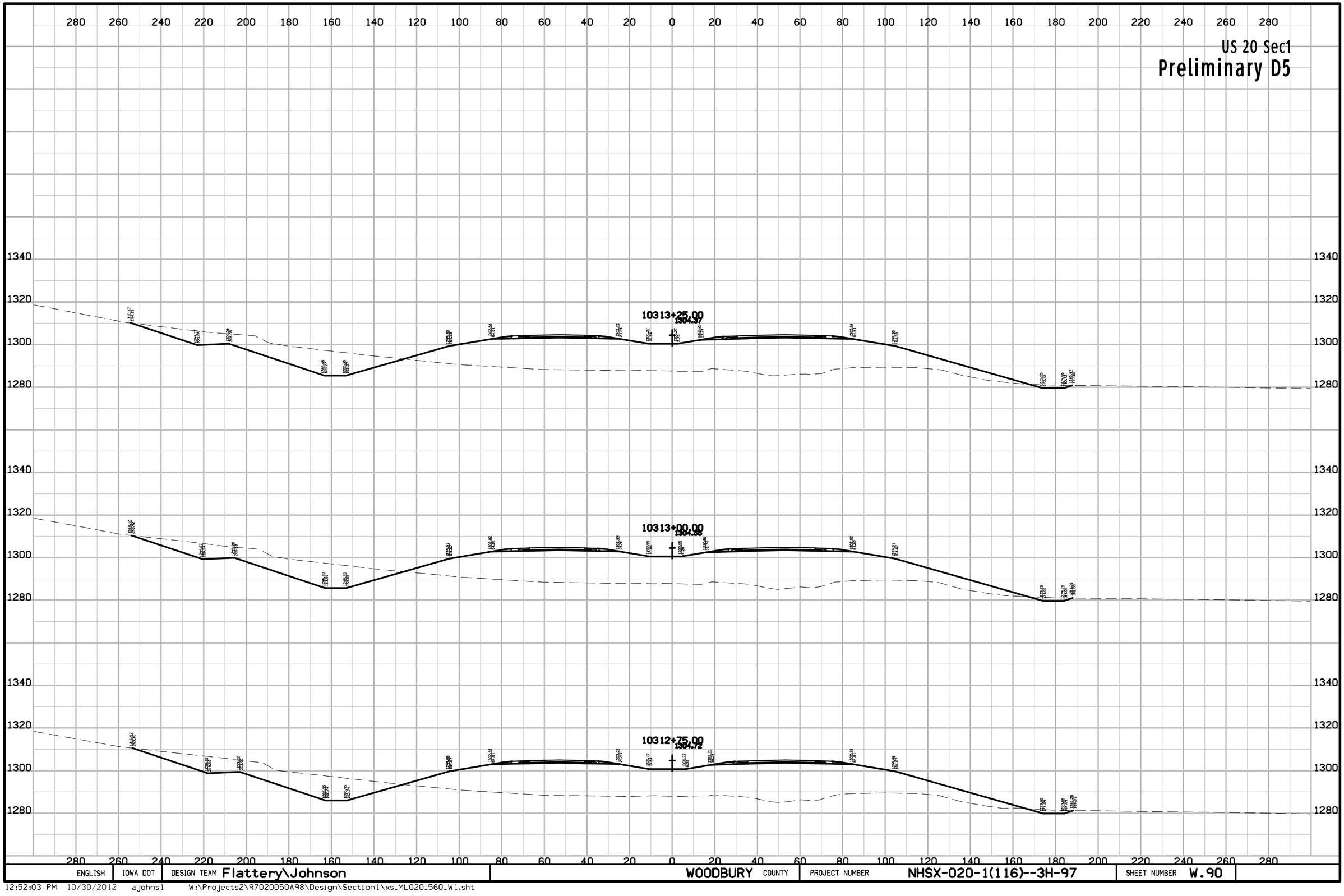
US 20 Sec1

Preliminary D5



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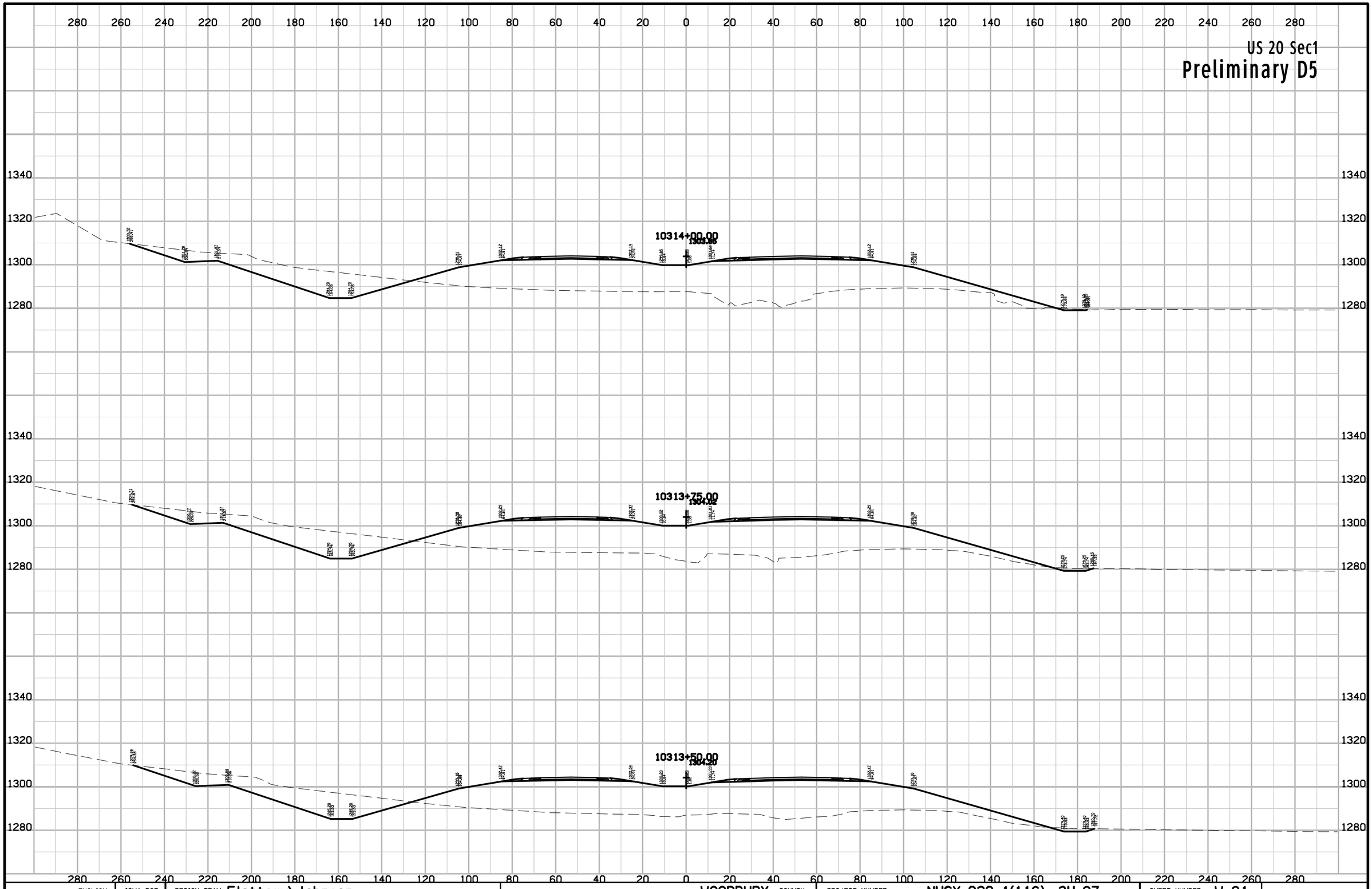
US 20 Sec1

Preliminary D5



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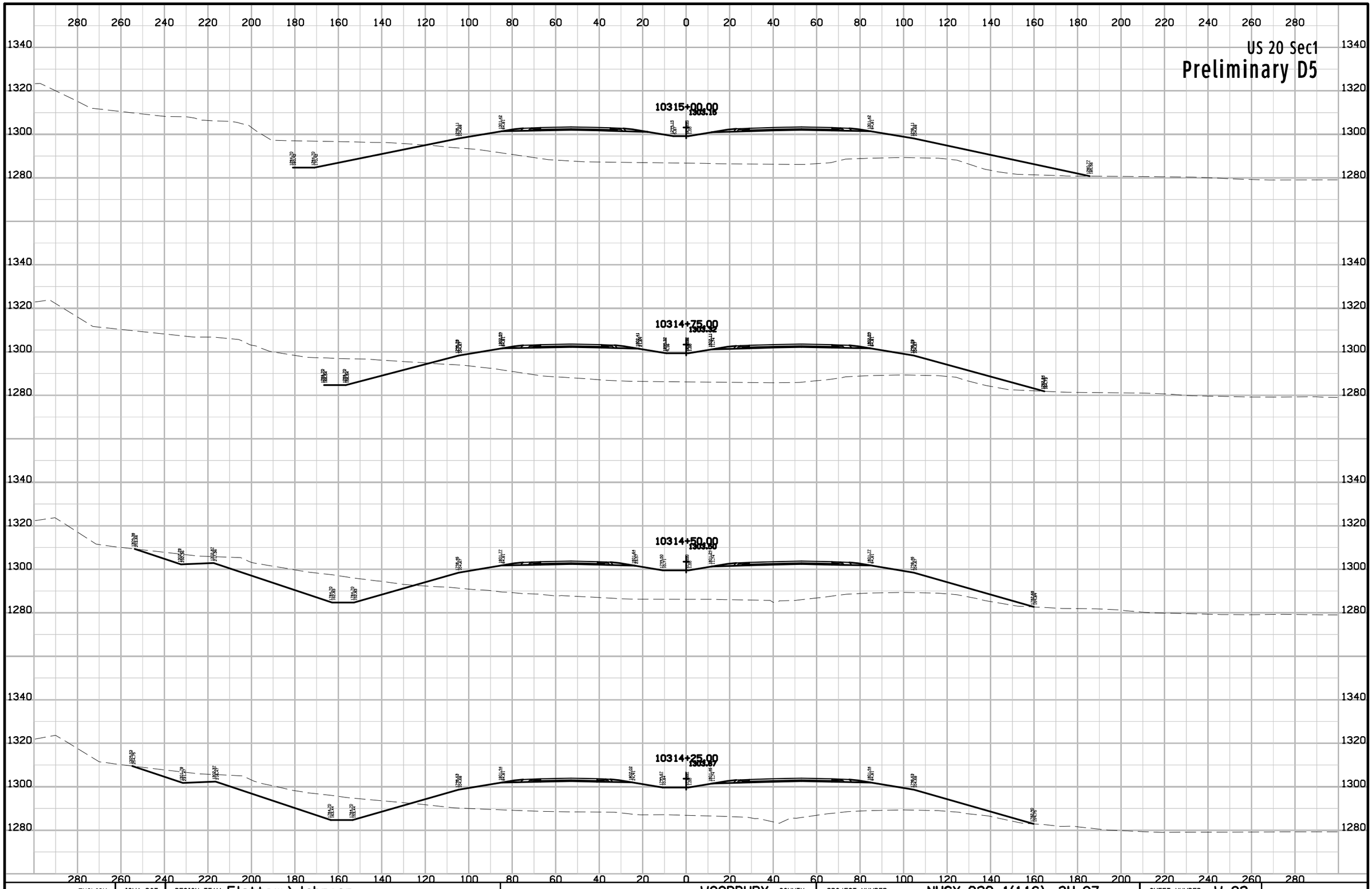
US 20 Sec1

Preliminary D5



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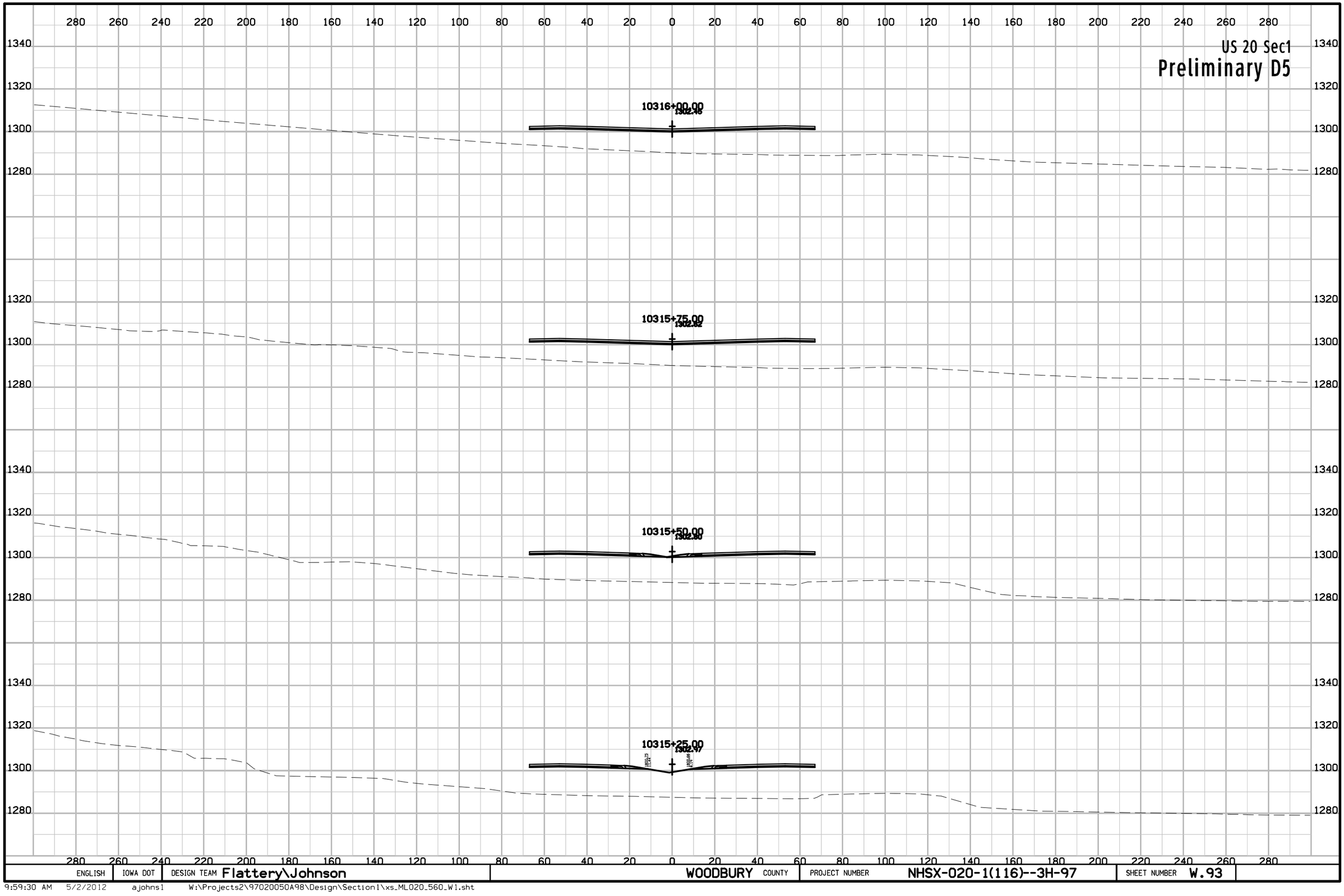
US 20 Sec1

Preliminary D5



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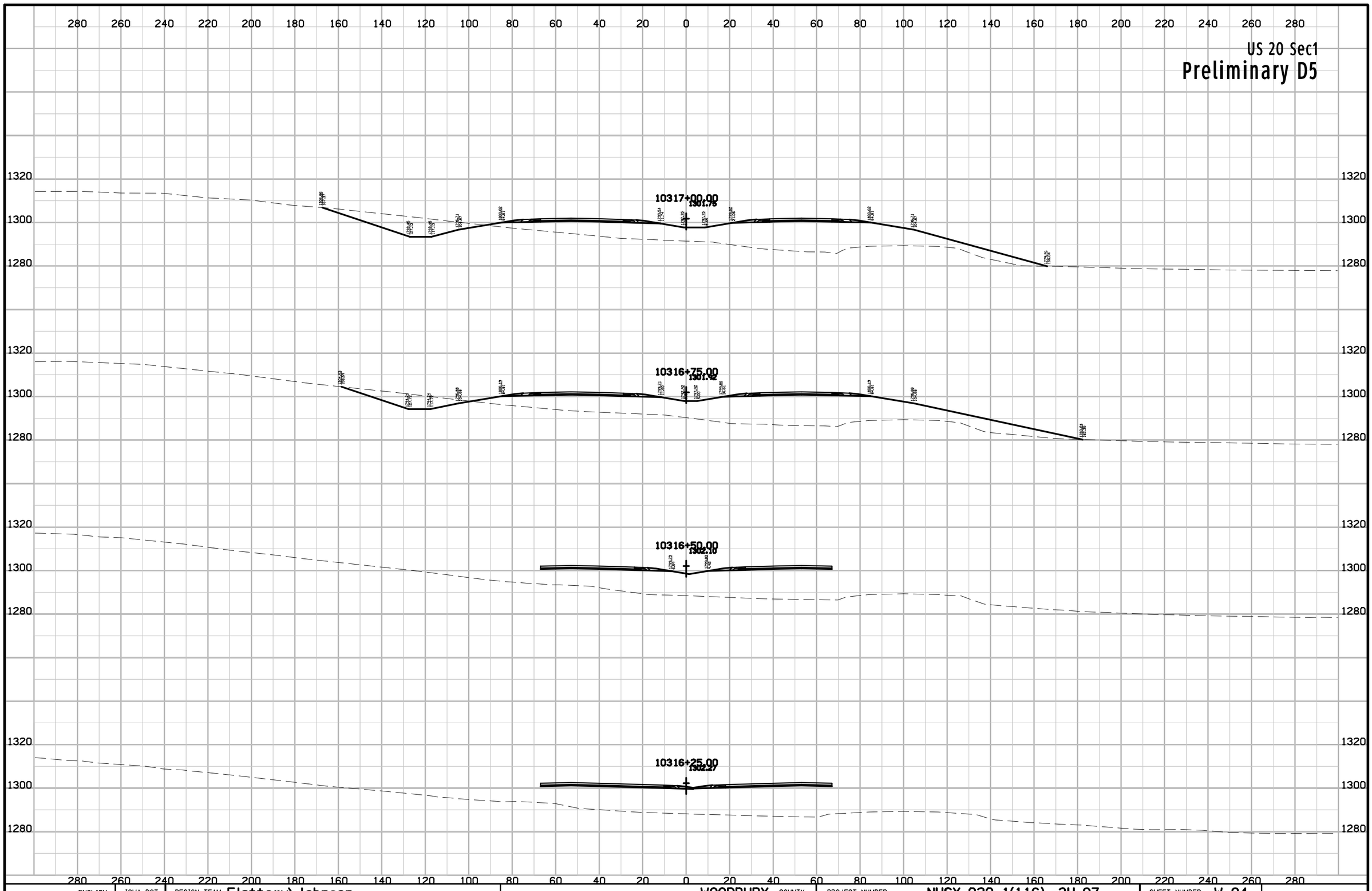
US 20 Sec1

Preliminary D5



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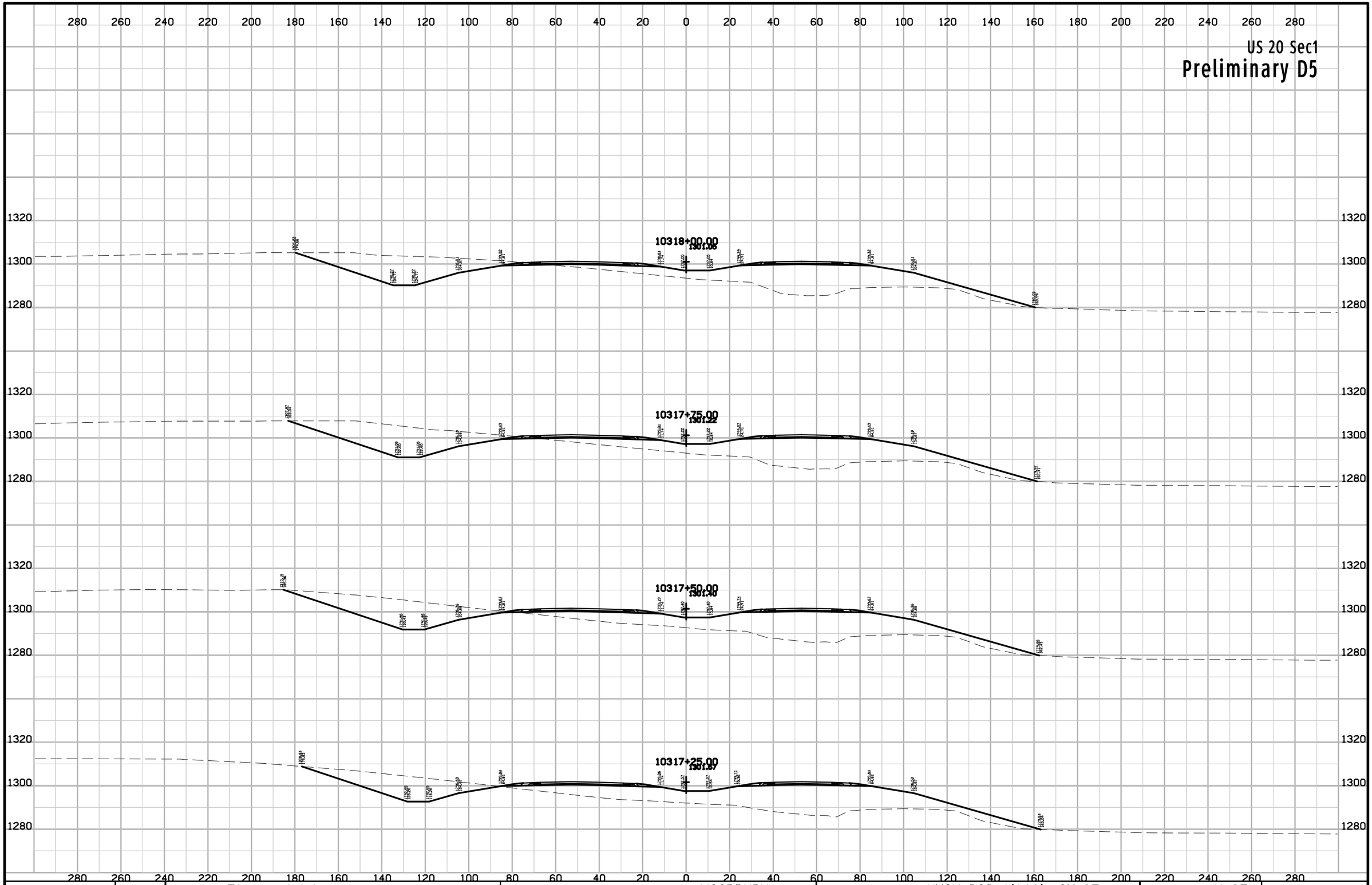
US 20 Sec1

Preliminary D5



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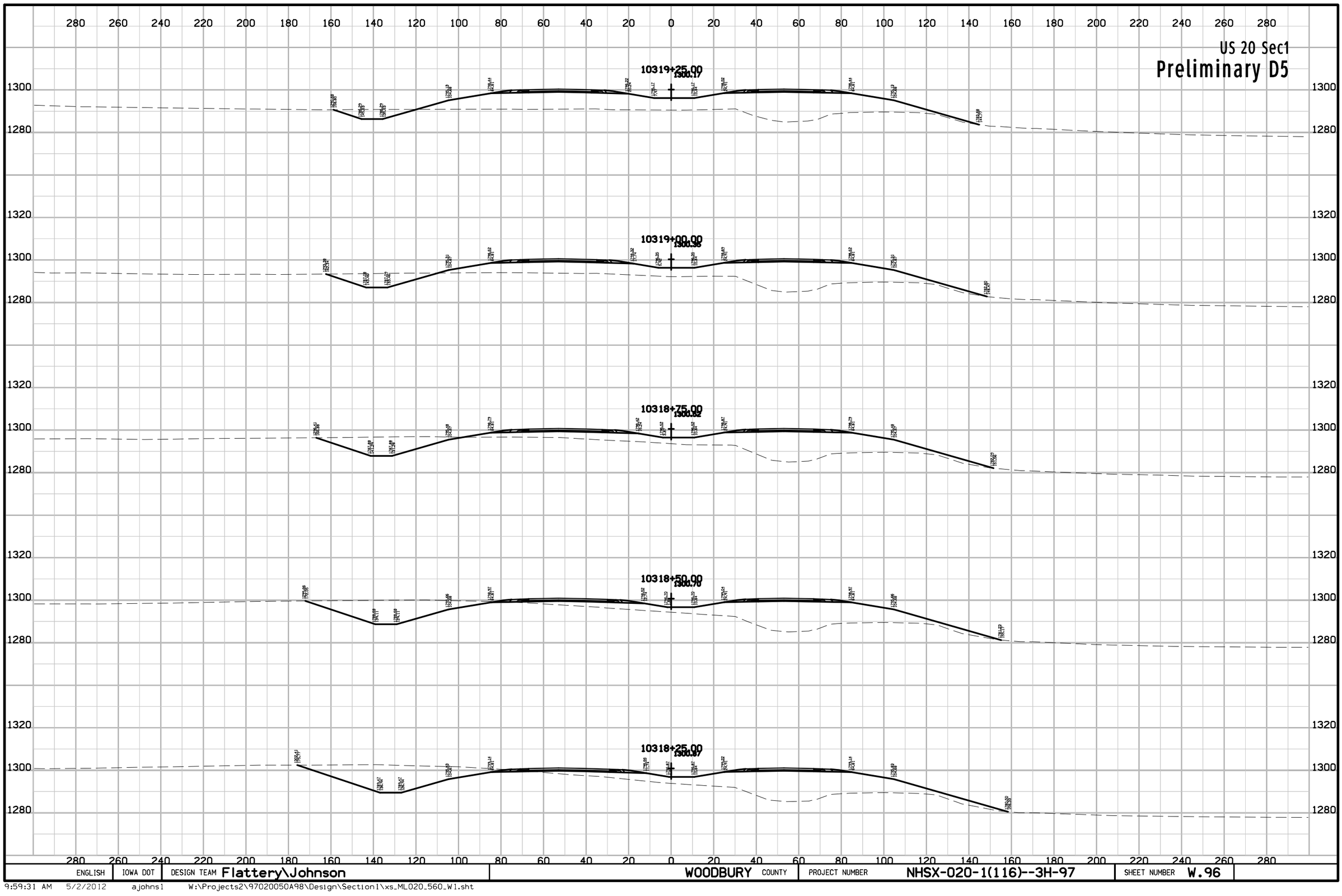
US 20 Sec1

Preliminary D5



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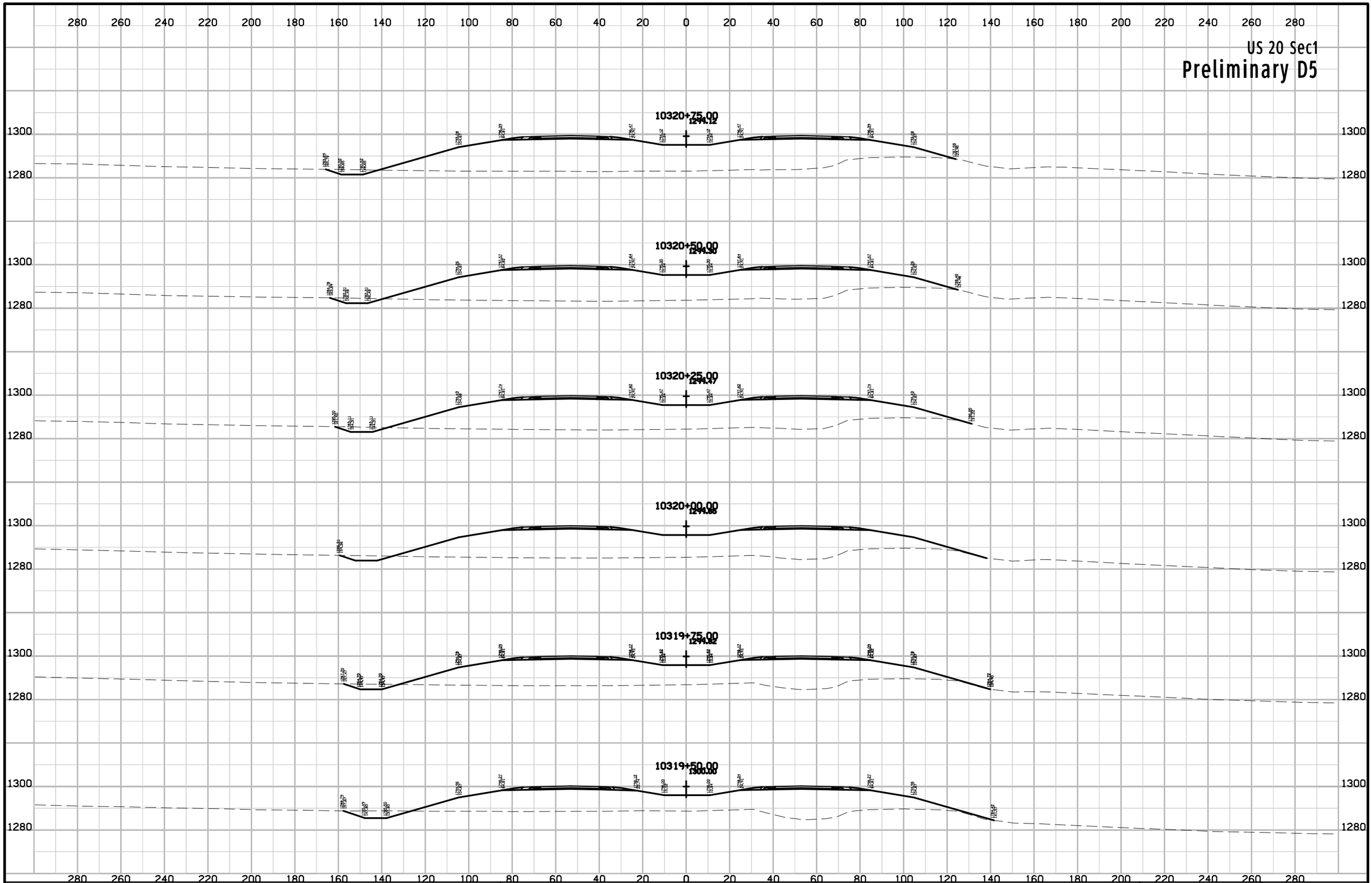
US 20 Sec1

Preliminary D5



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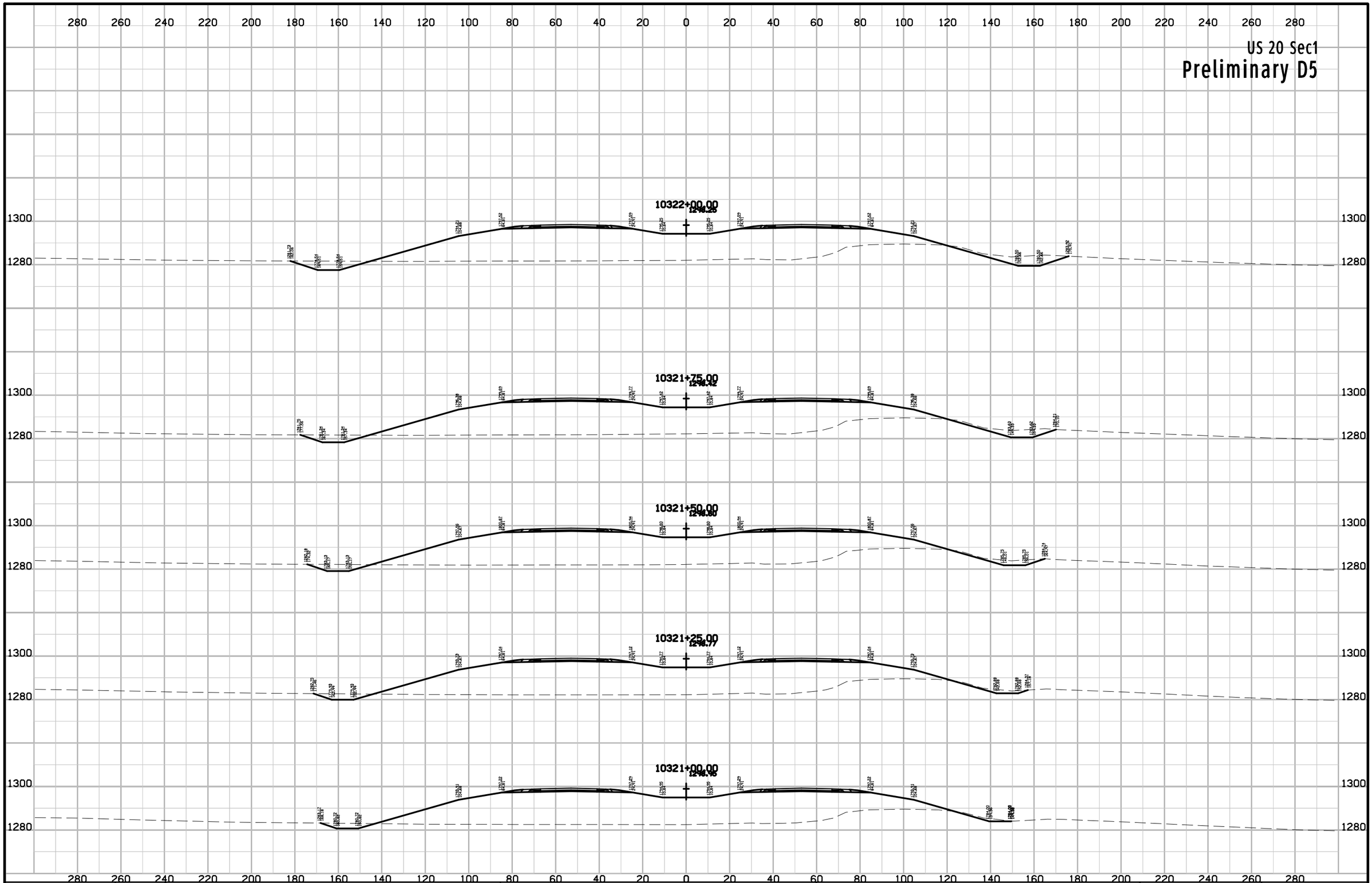
US 20 Sec1

Preliminary D5



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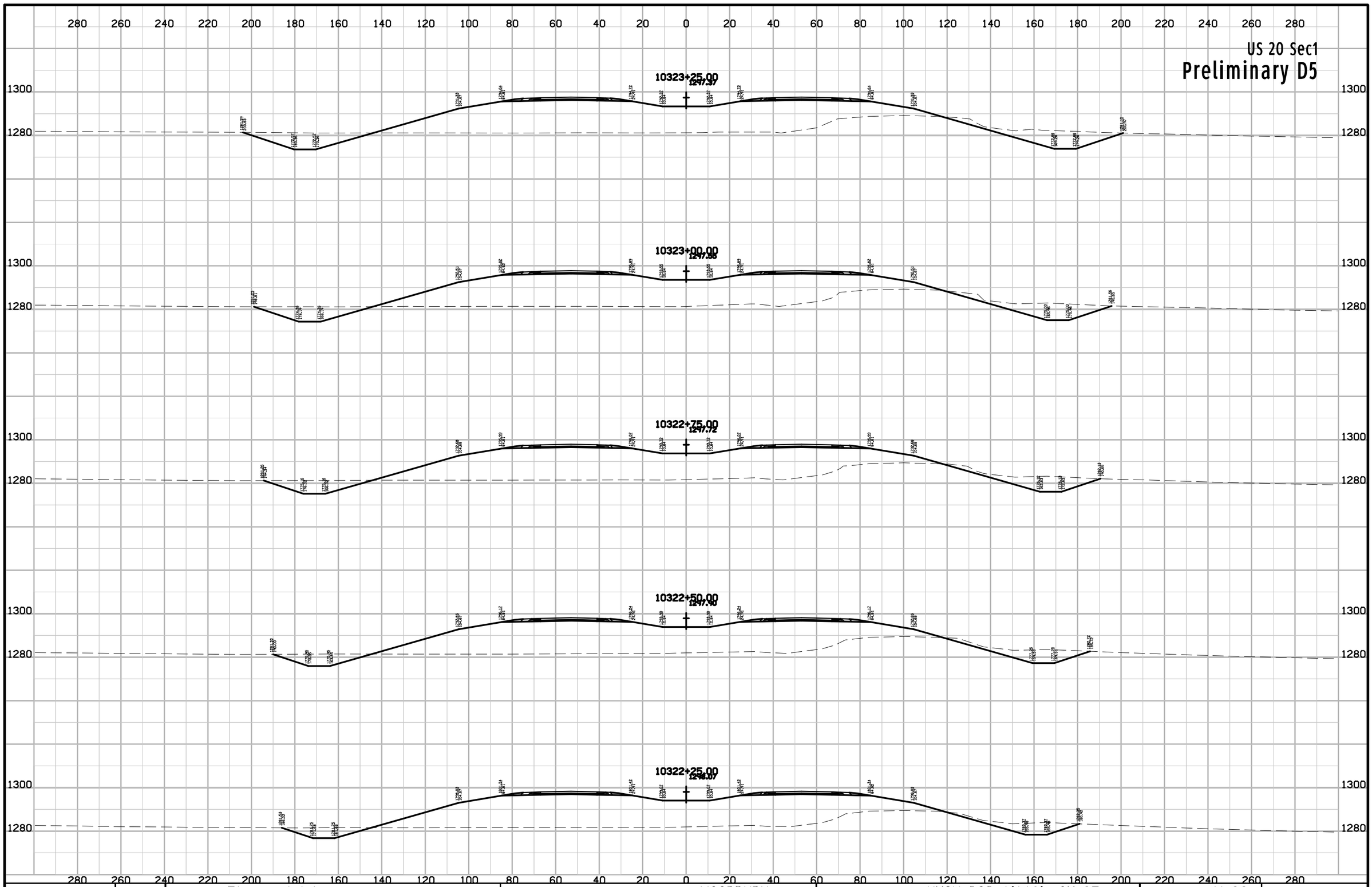
US 20 Sec1

Preliminary D5



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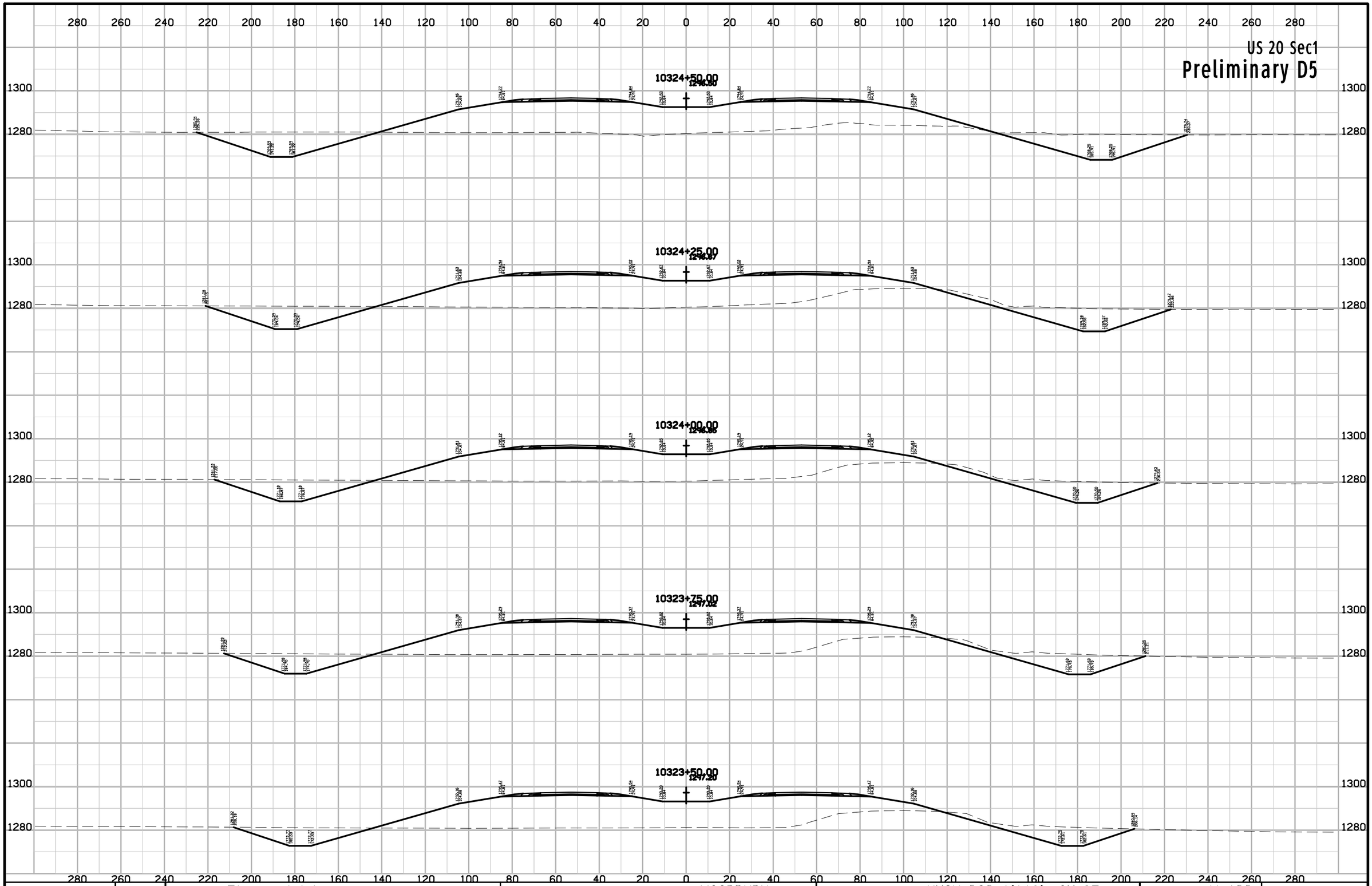
US 20 Sec1

Preliminary D5



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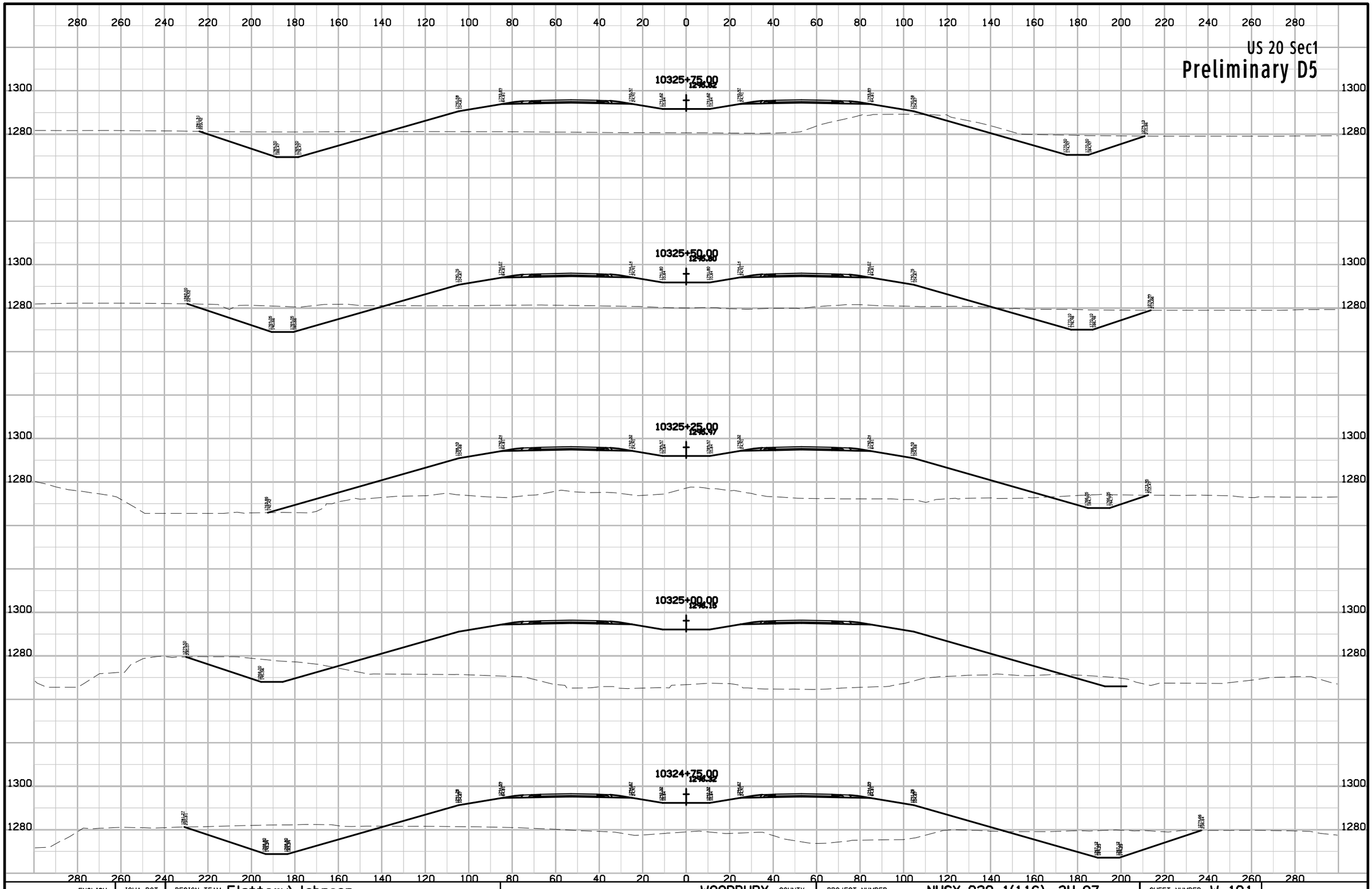
US 20 Sec1

Preliminary D5



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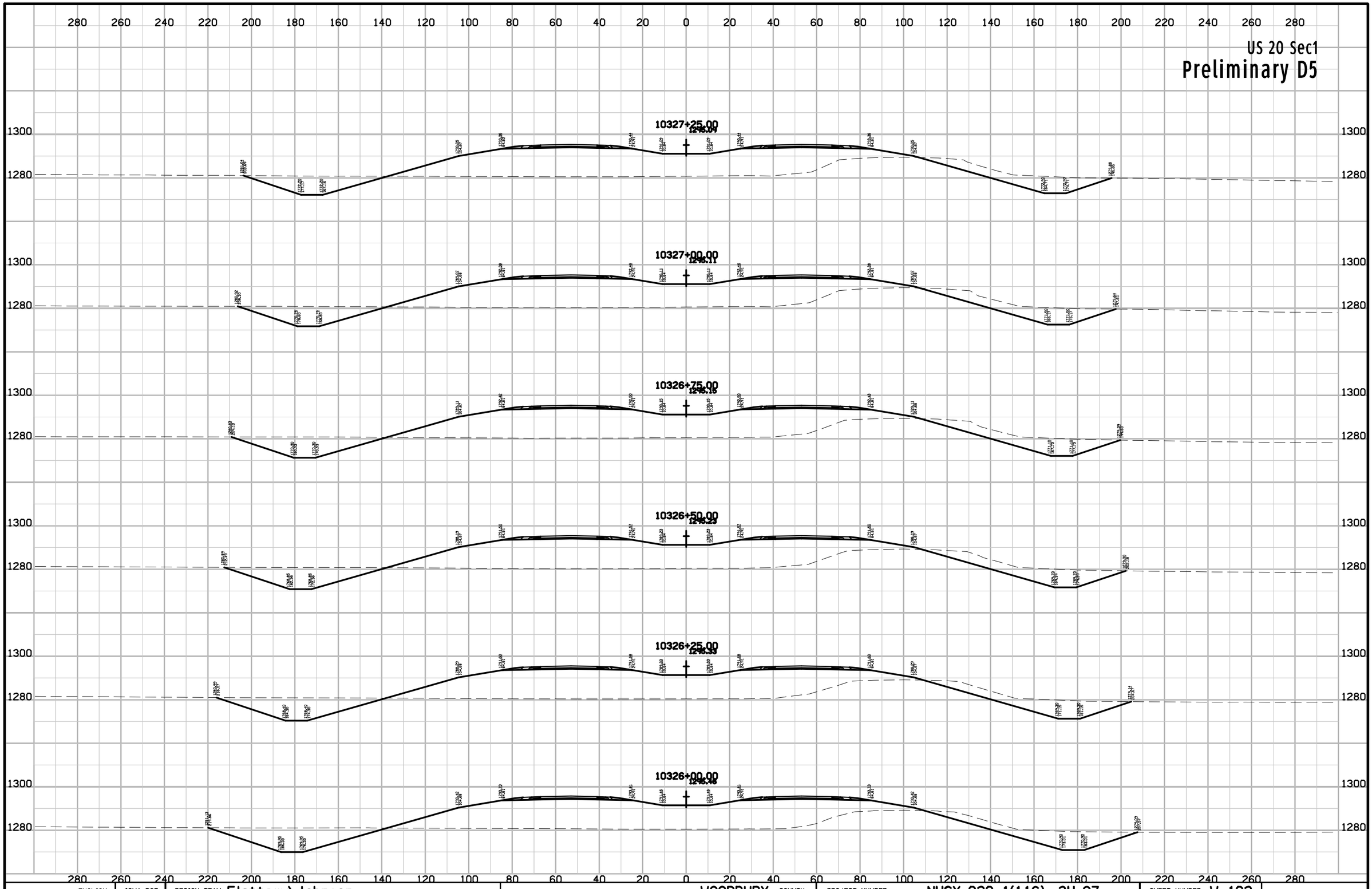
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.102

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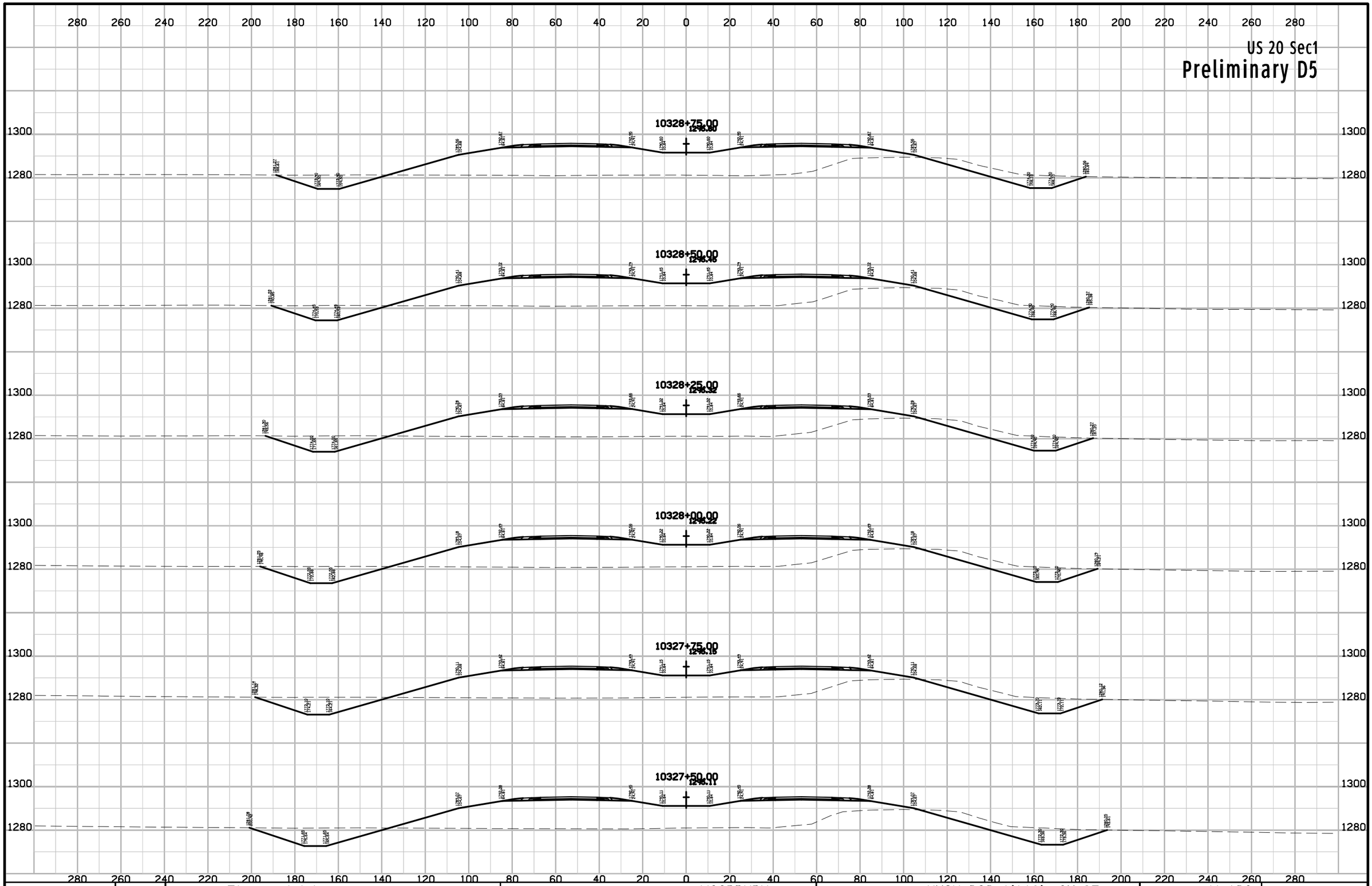
US 20 Sec1

Preliminary D5



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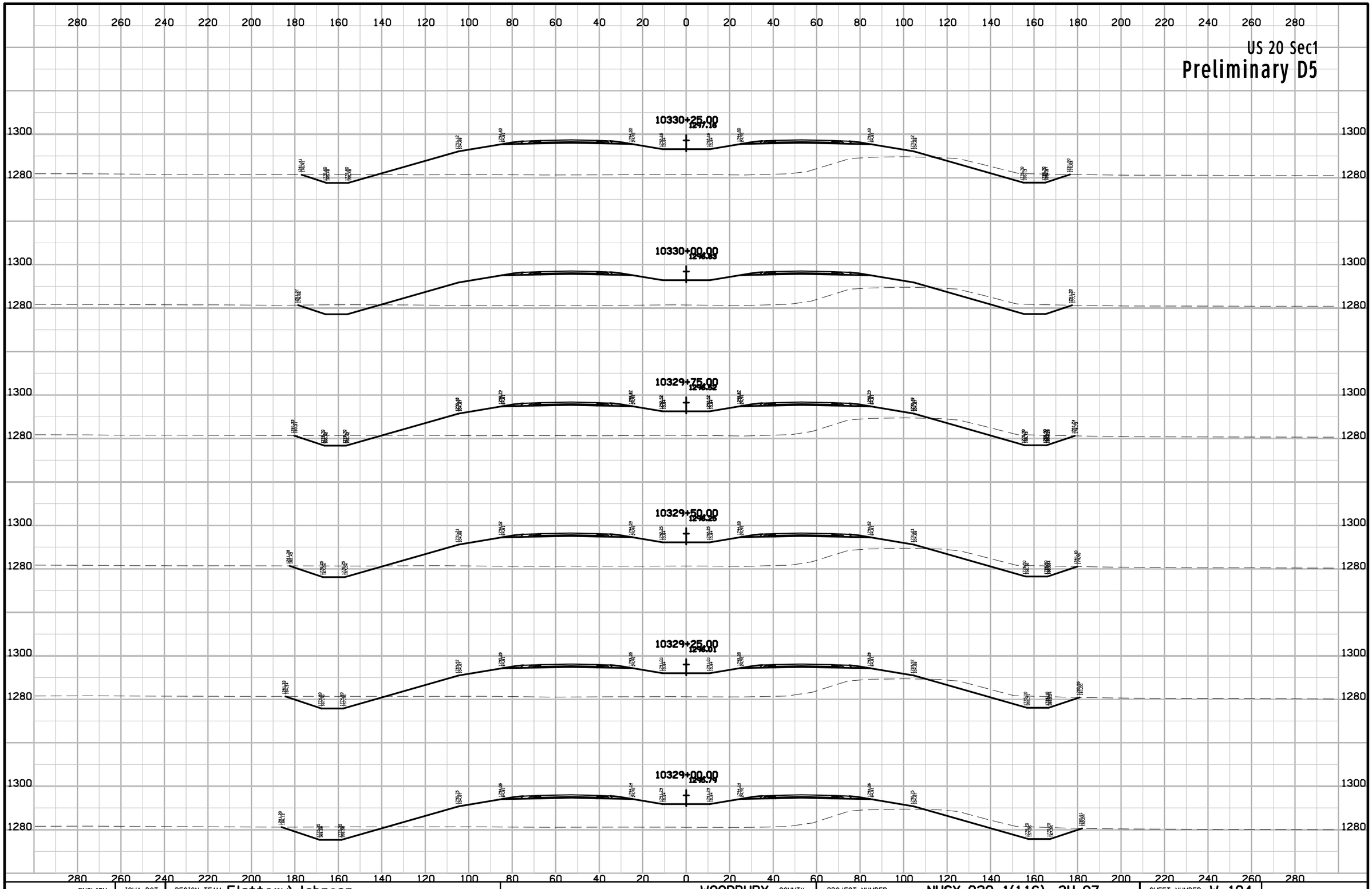
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.104

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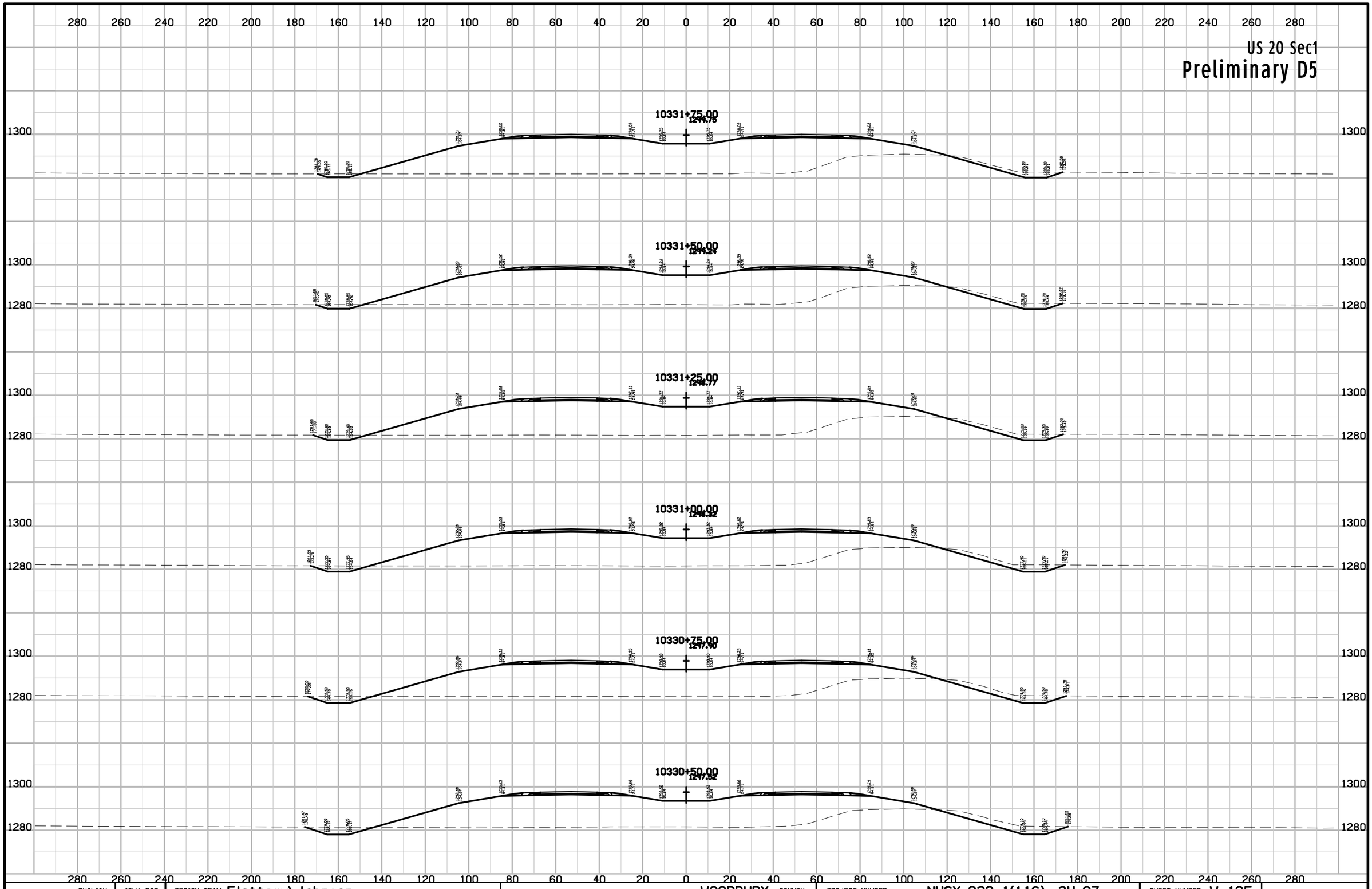
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

10333+25.00
1303.38

10333+00.00
1302.70

10332+75.00
1302.08

10332+50.00
1301.49

10332+25.00
1300.84

10332+00.00
1300.28

1300

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.106

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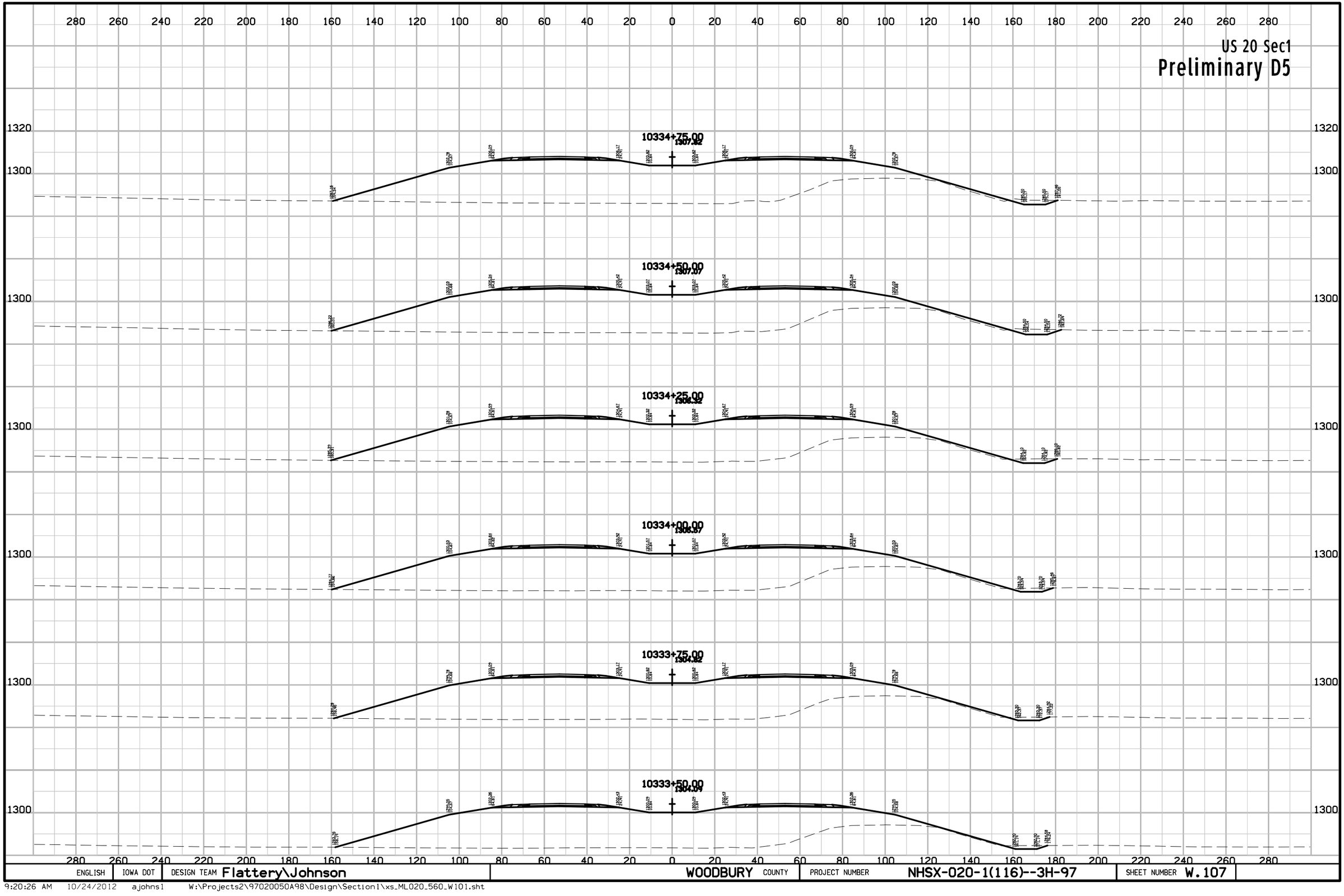
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.107

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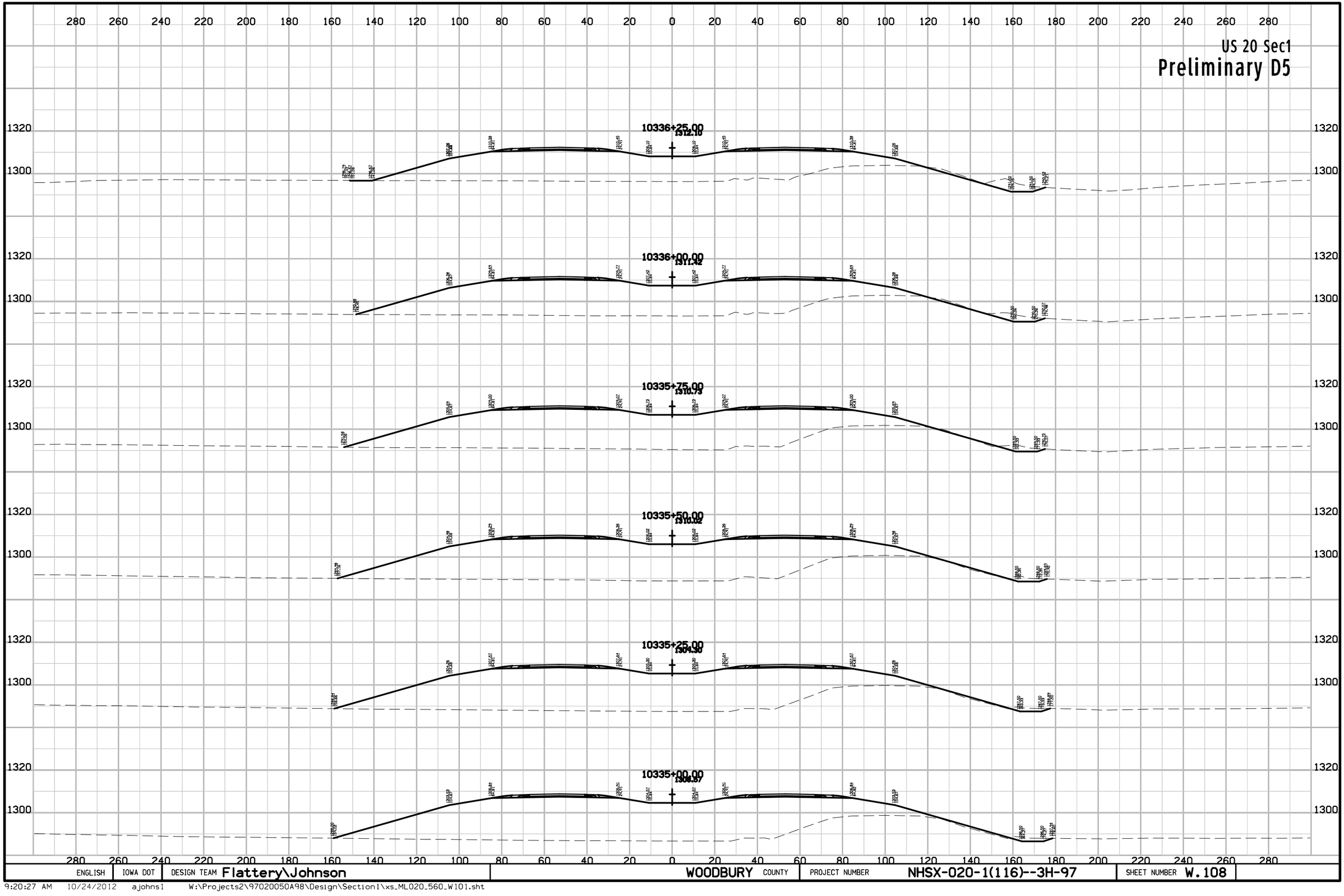
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.108

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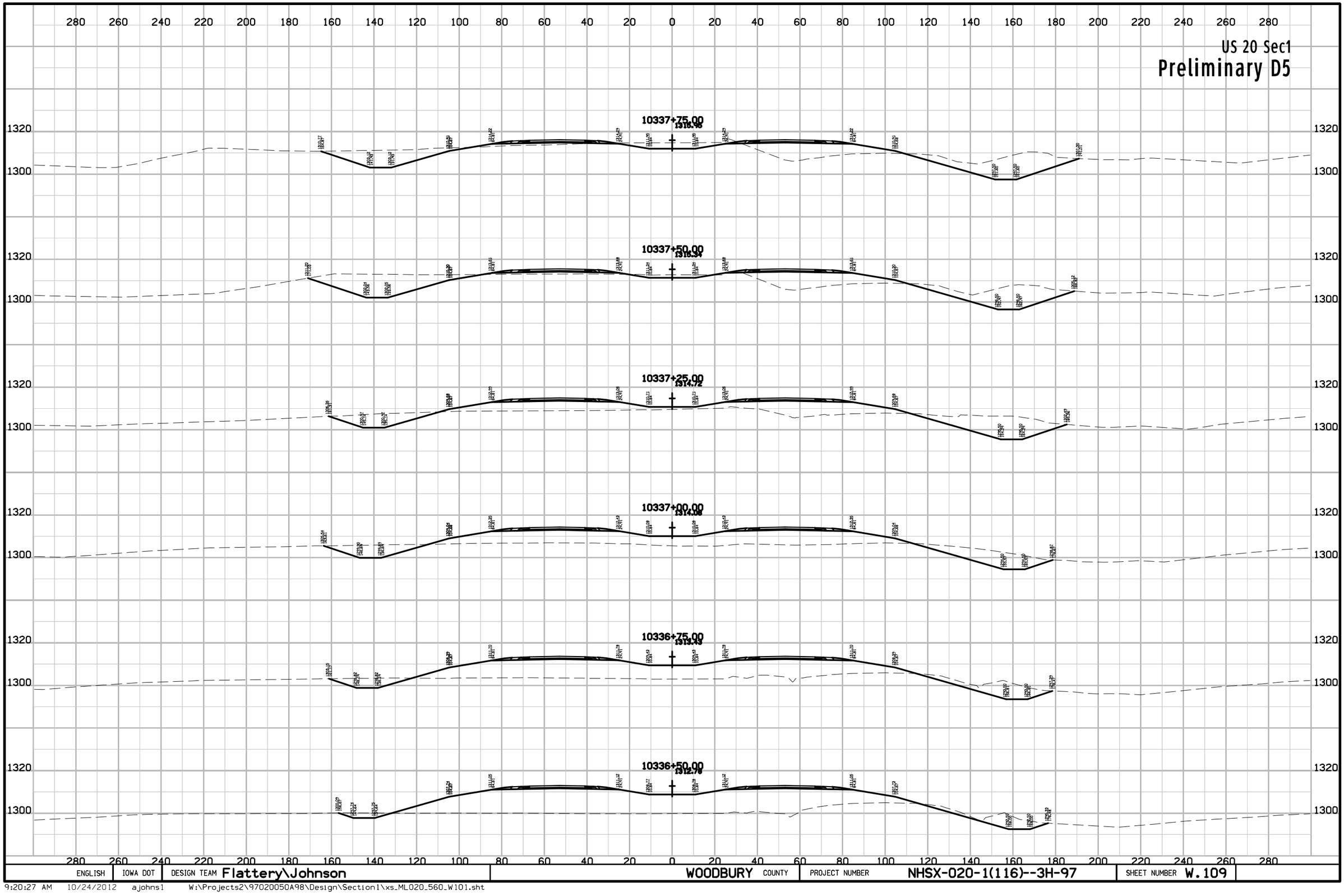
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.109

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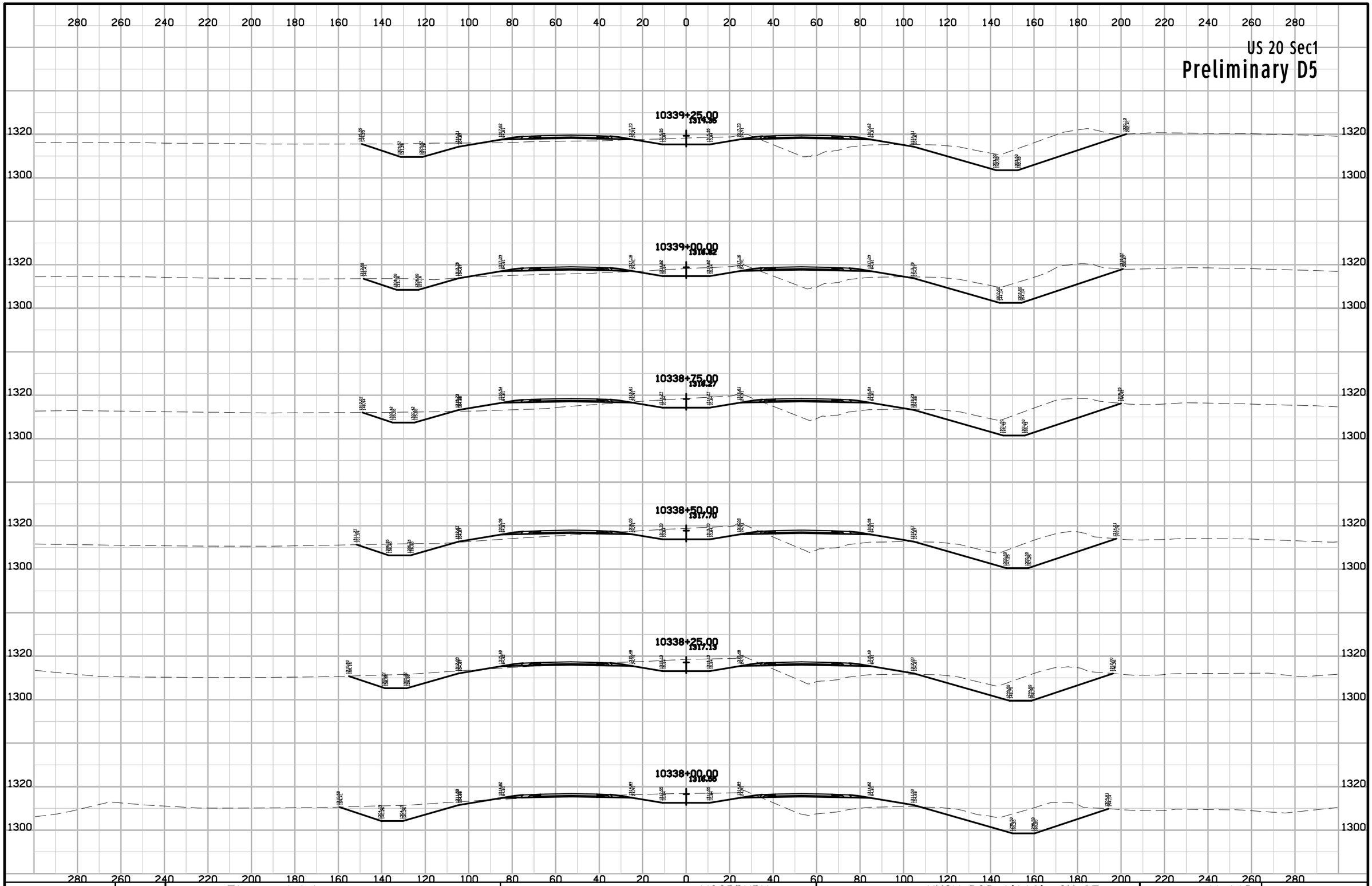
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.110

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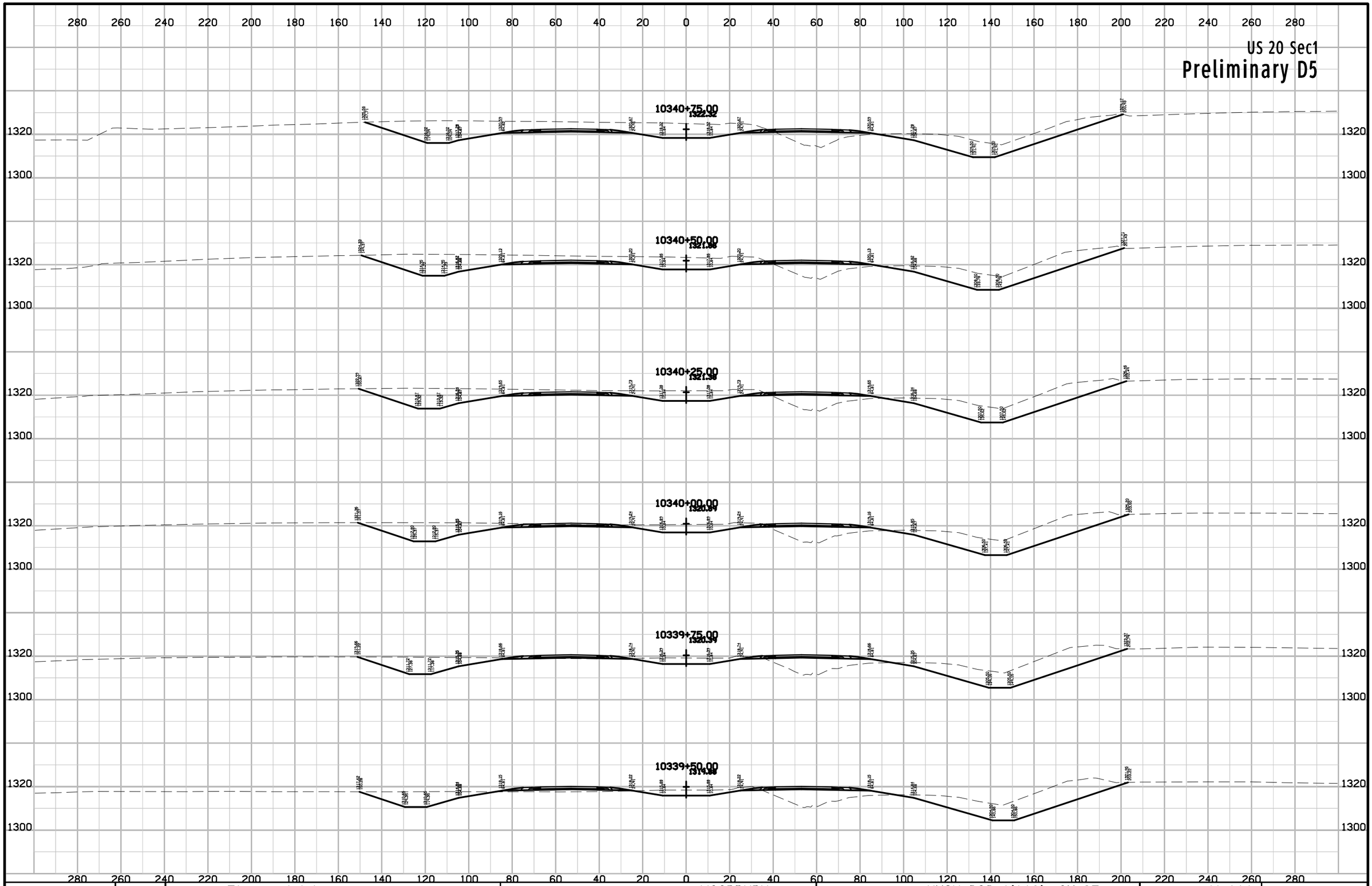
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.111

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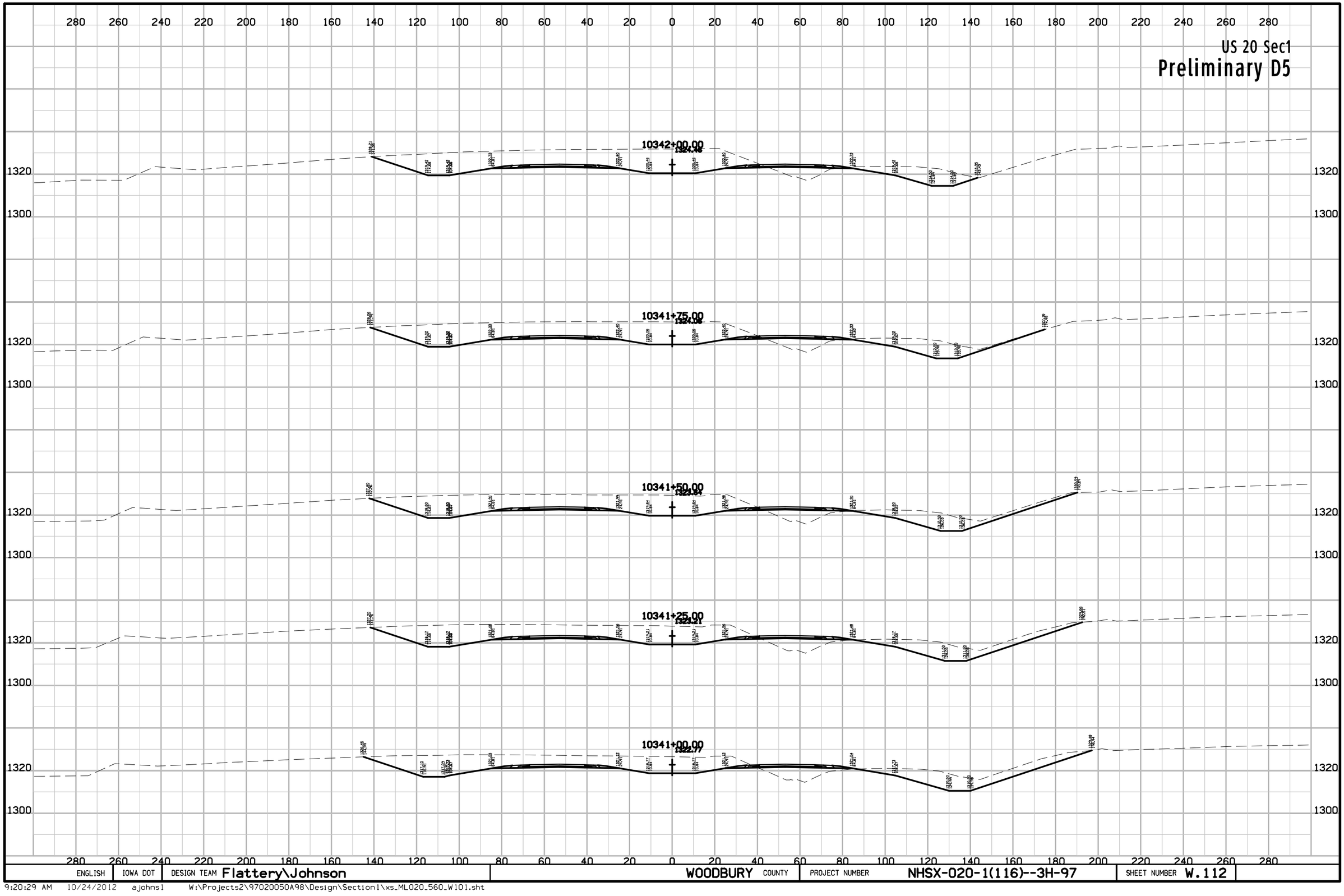
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.112

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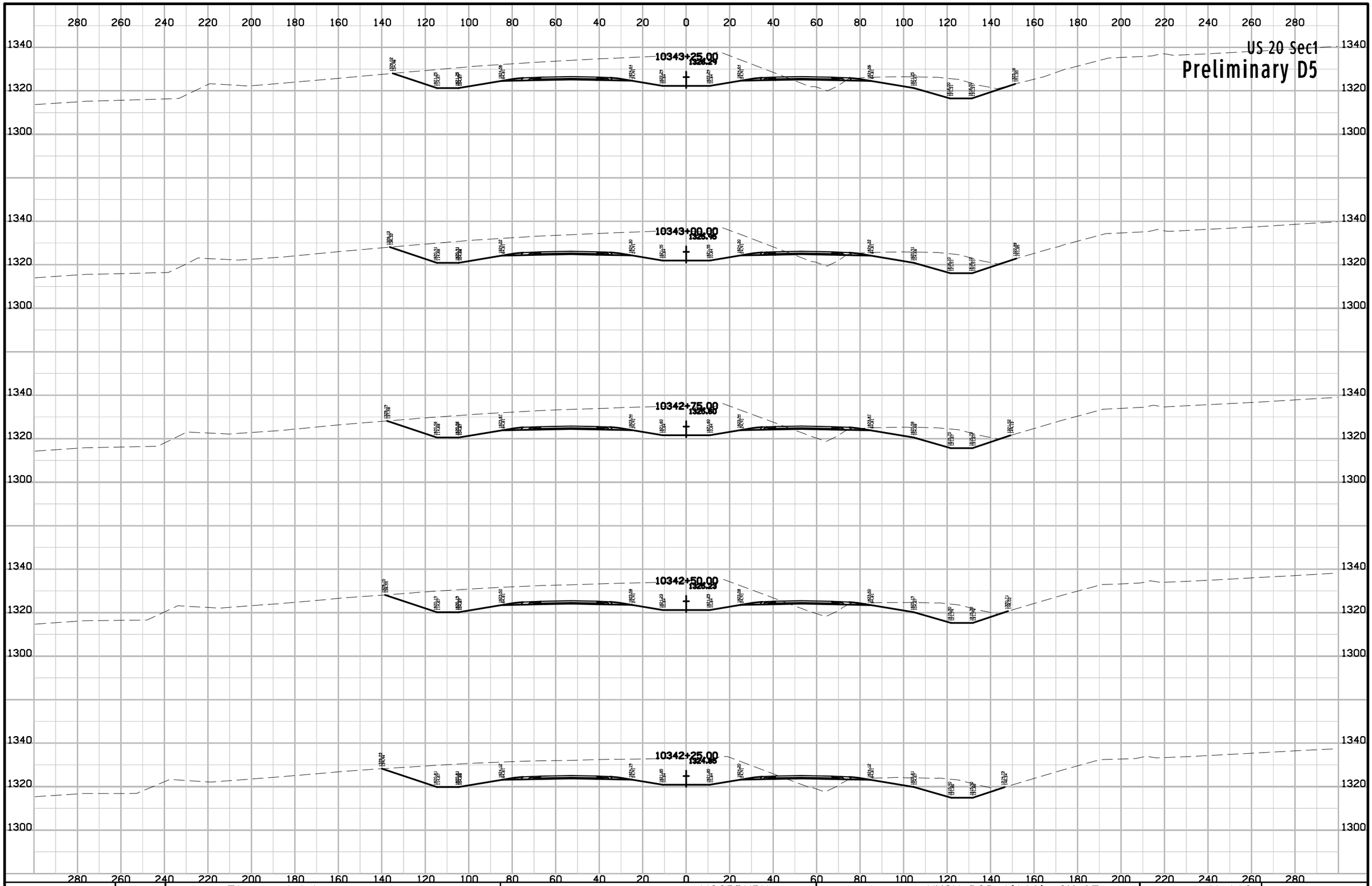
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.113

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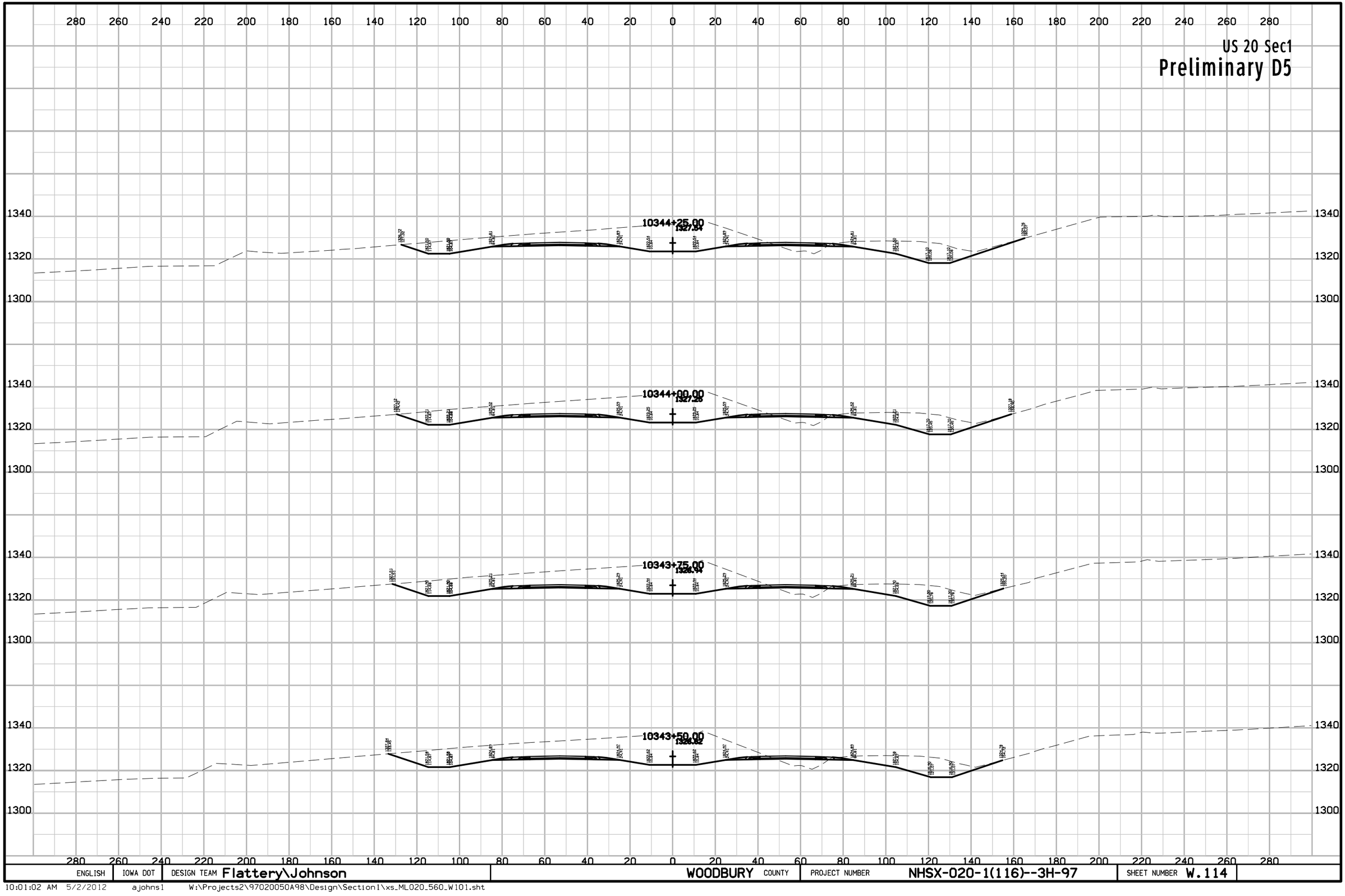
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.114

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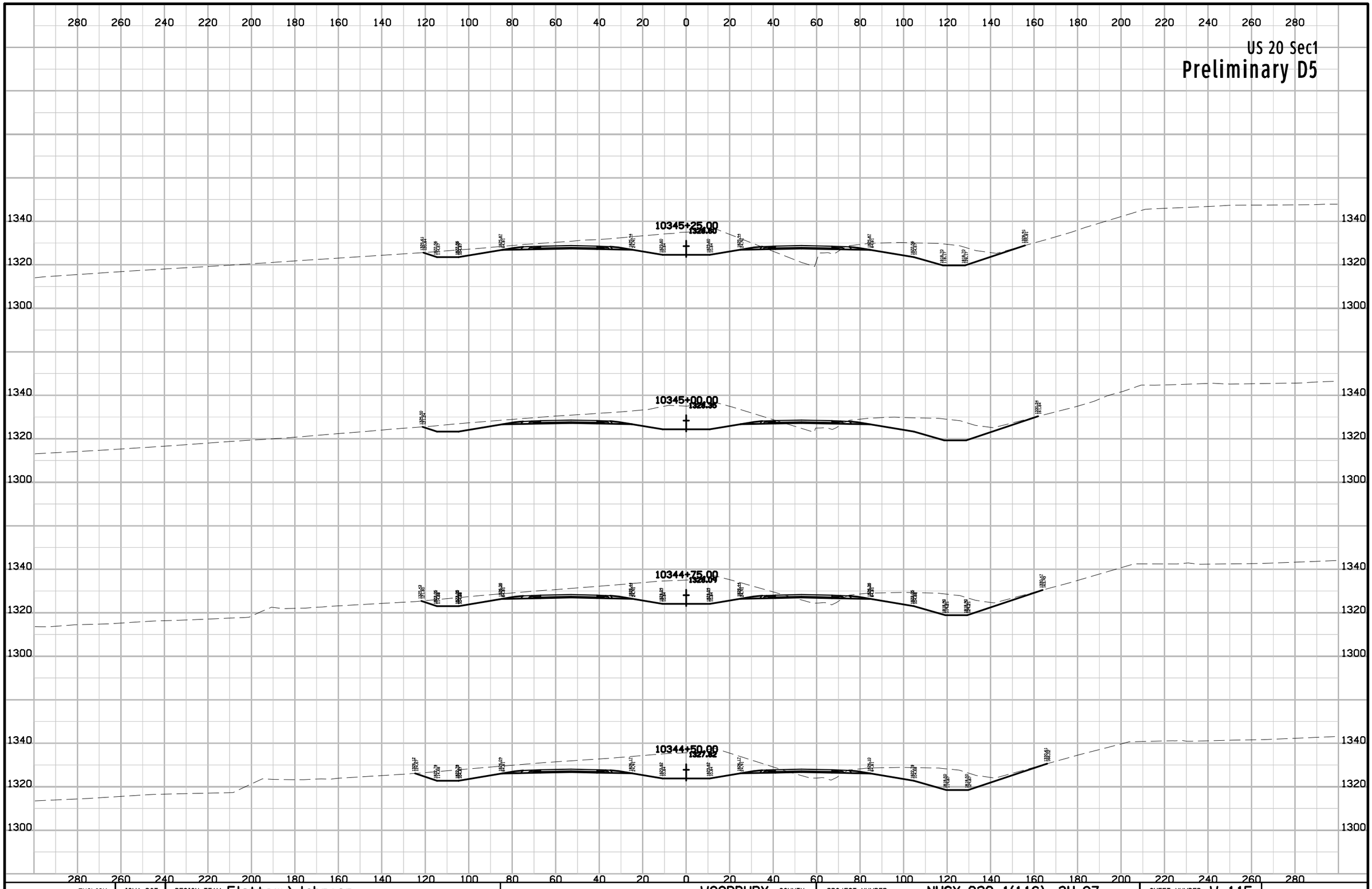
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.115

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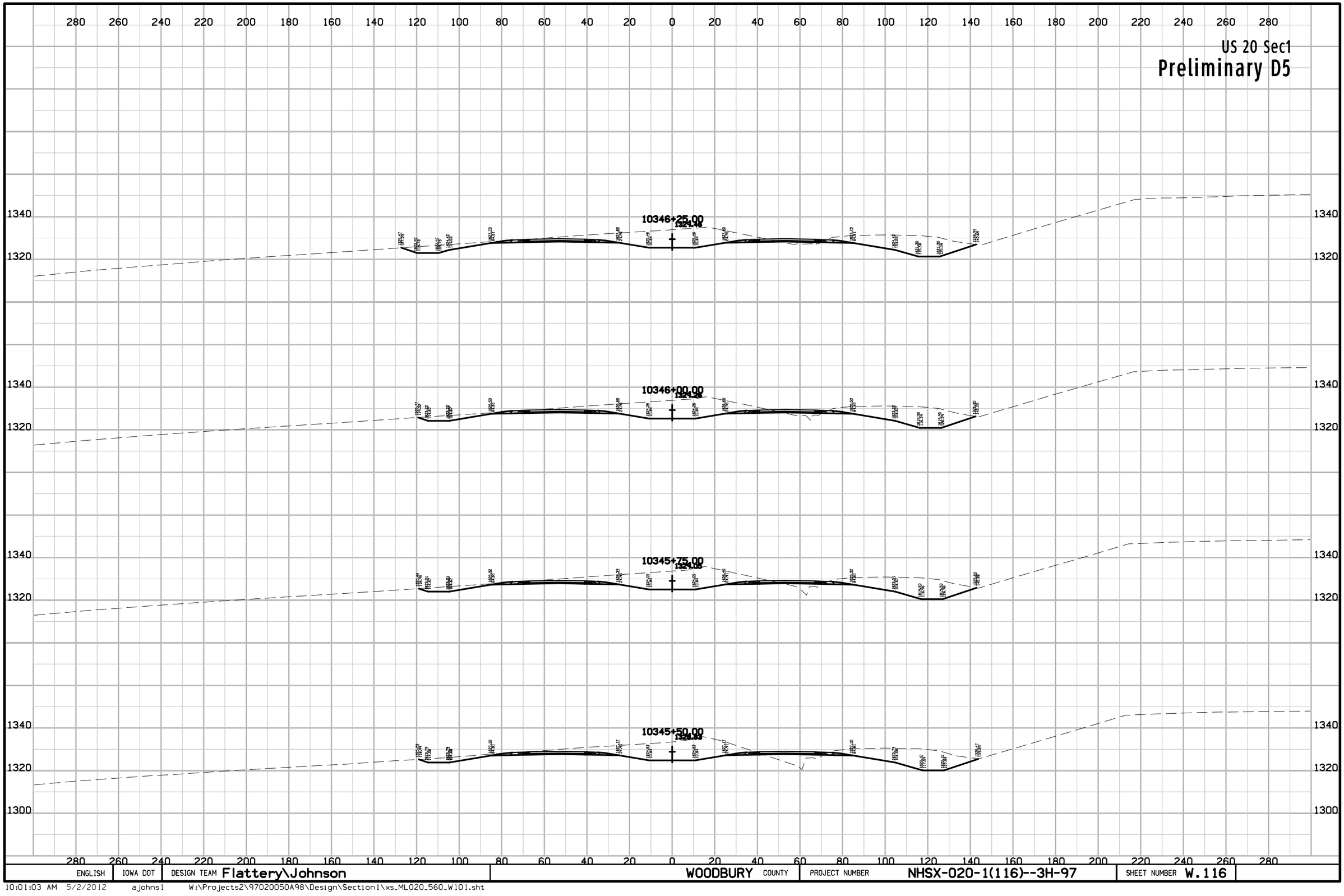
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.116

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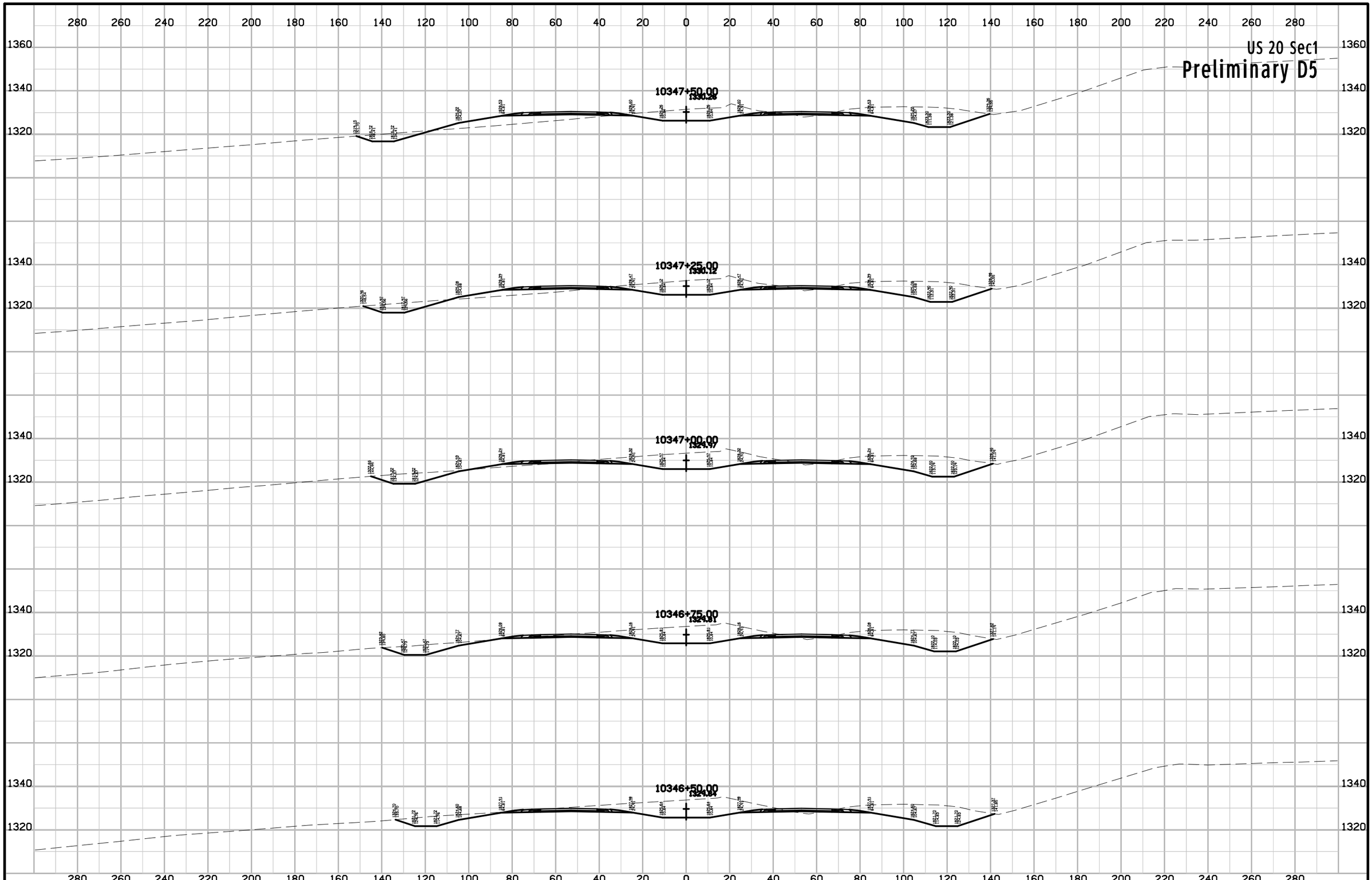
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.117

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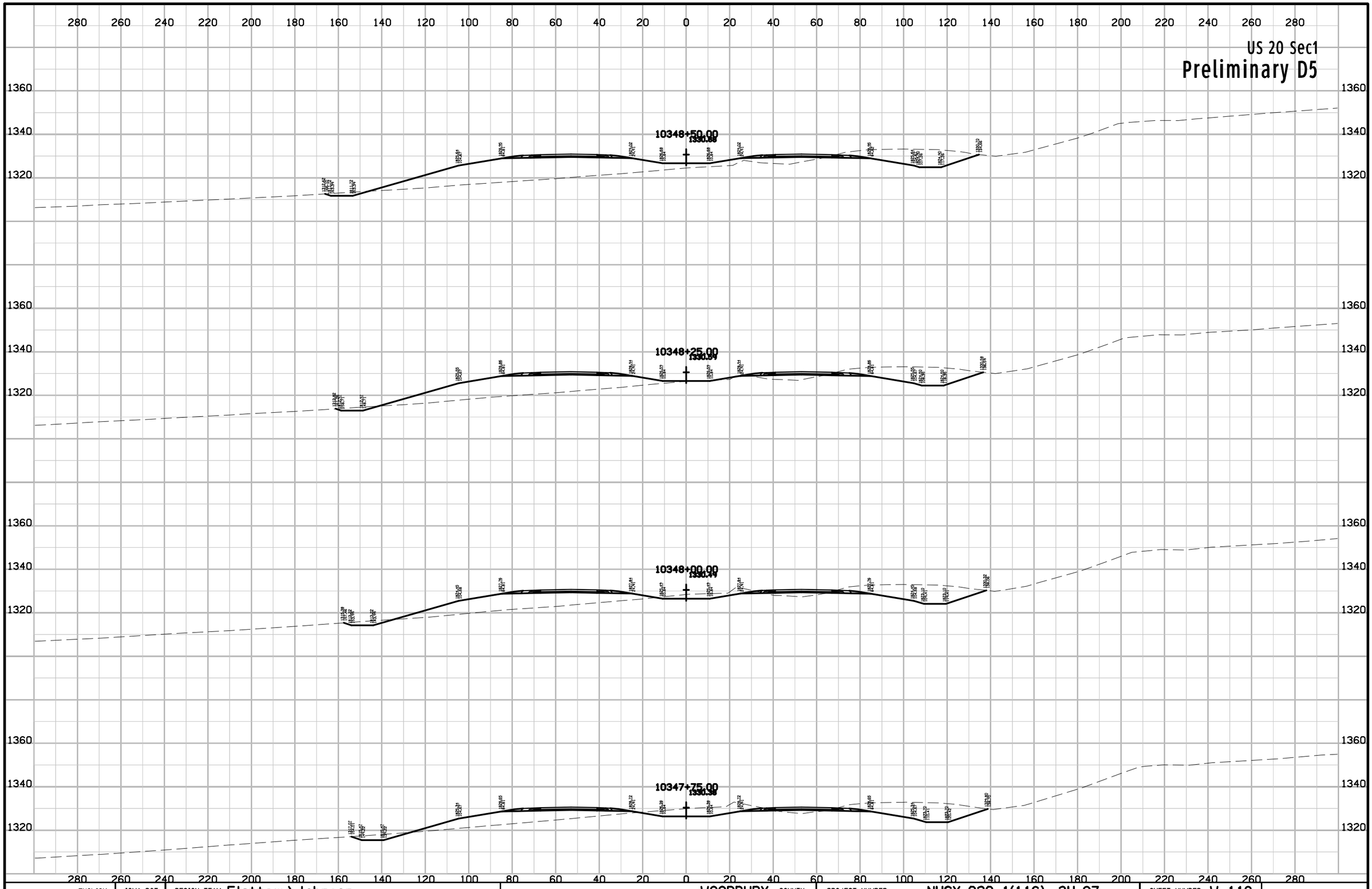
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.118

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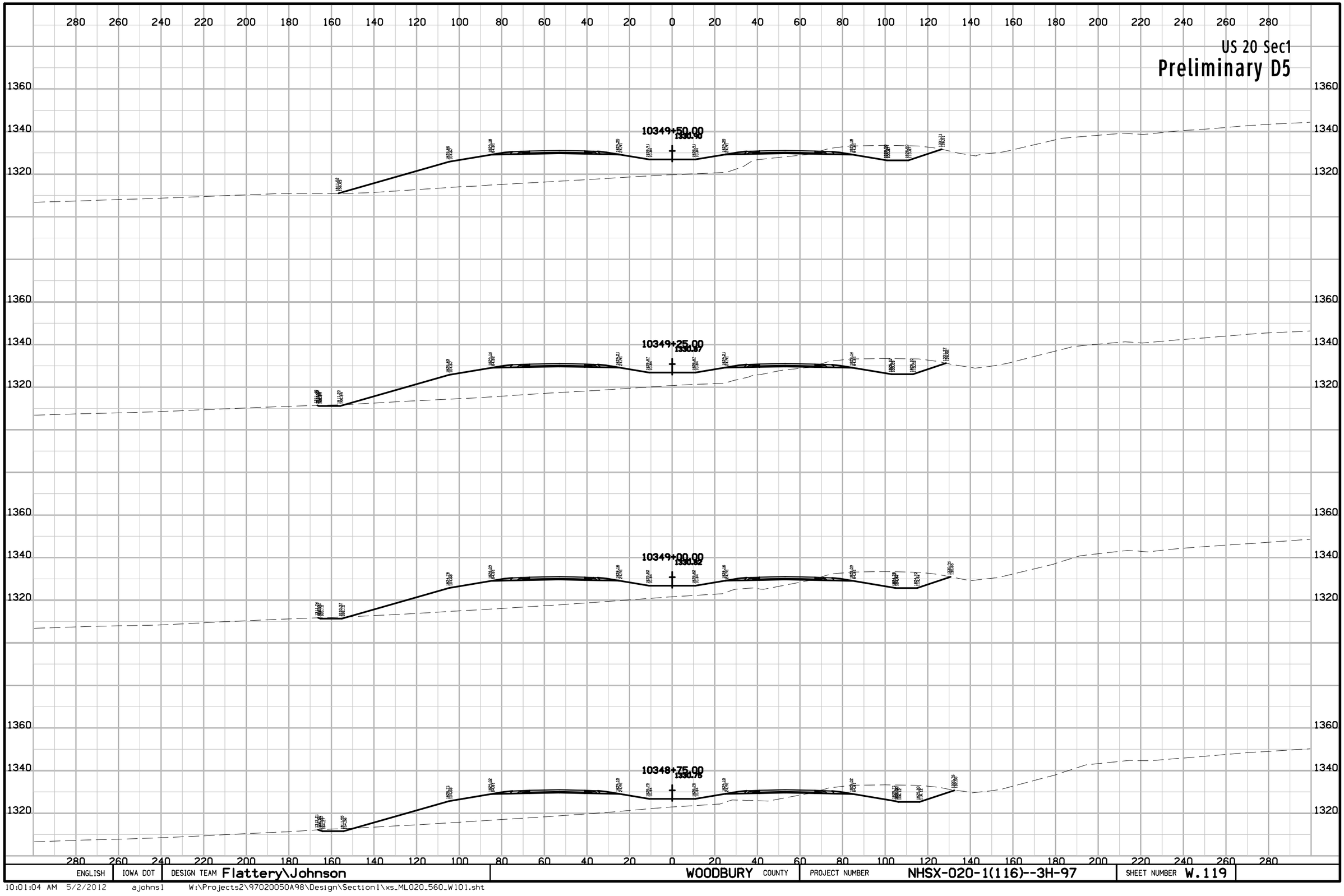
US 20 Sec1

Preliminary D5



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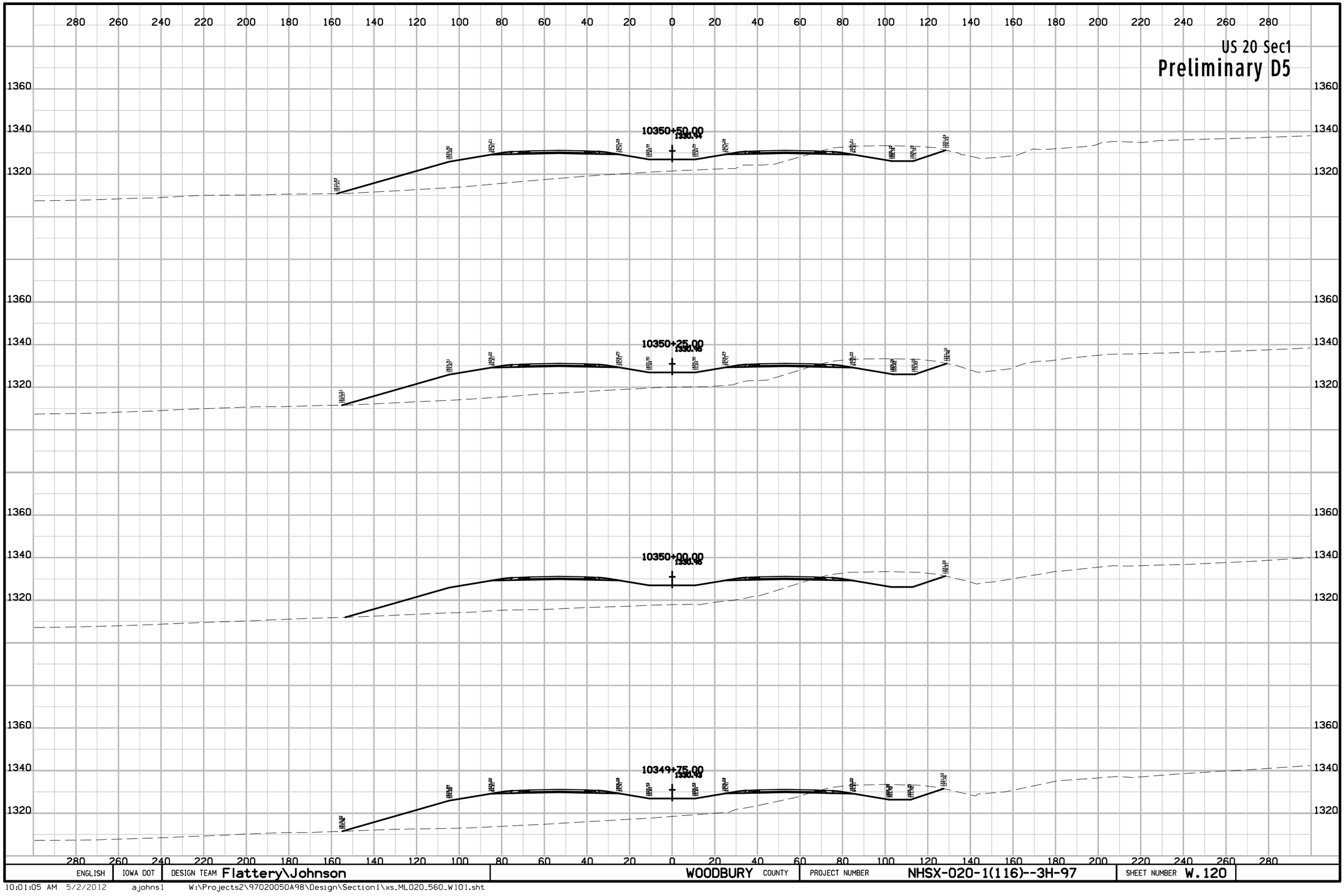
US 20 Sec1

Preliminary D5



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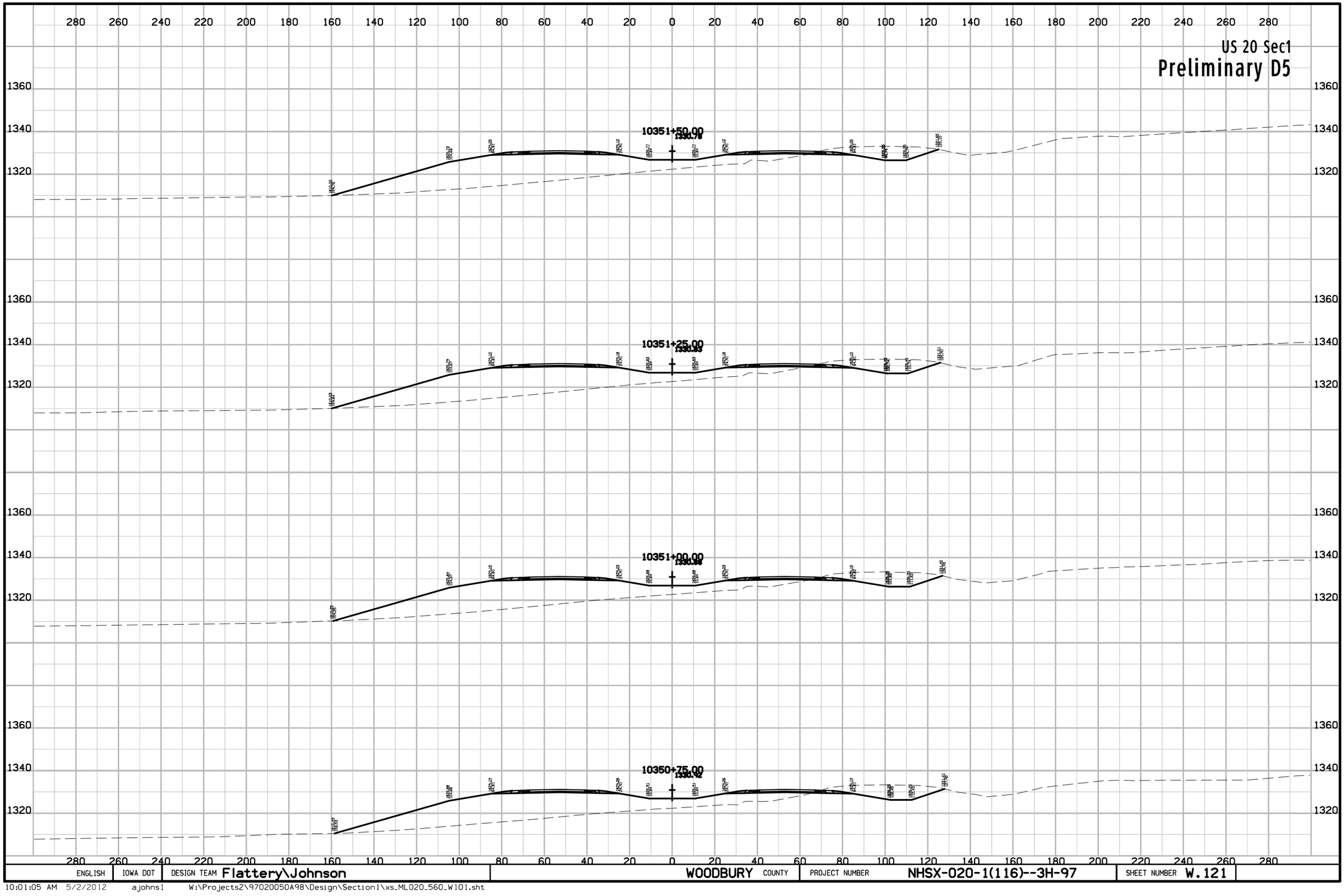
US 20 Sec1

Preliminary D5



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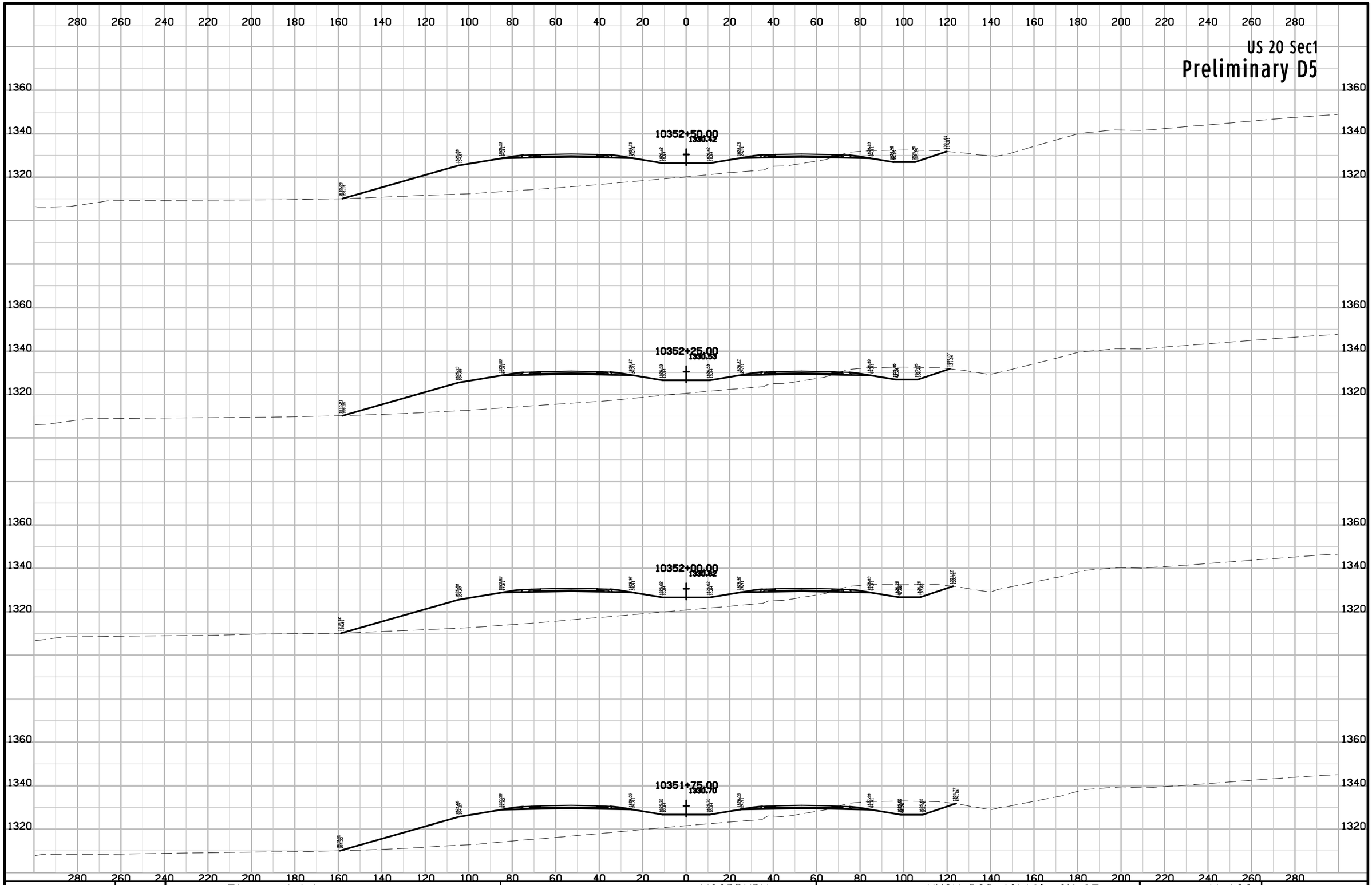
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.122

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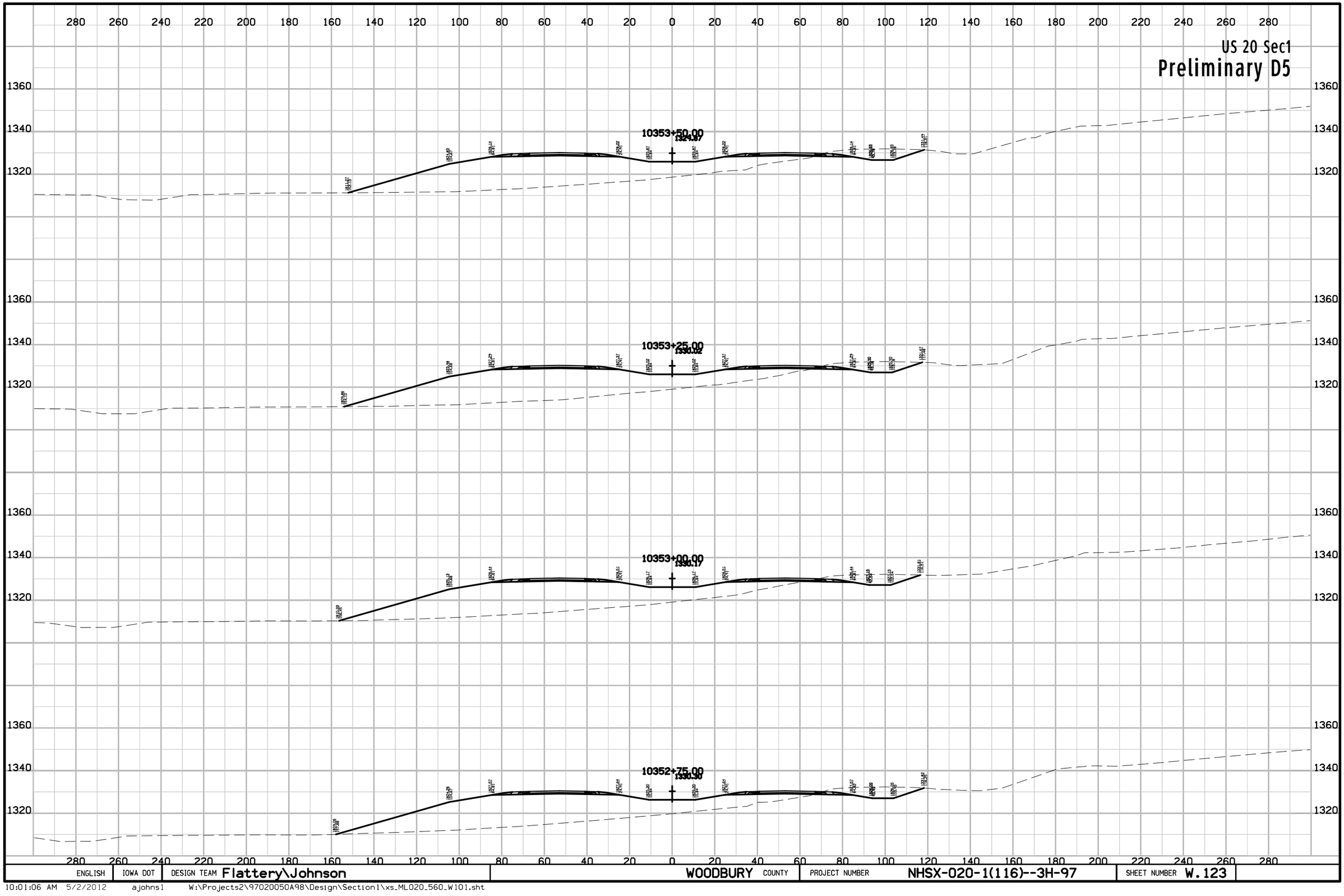
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.123

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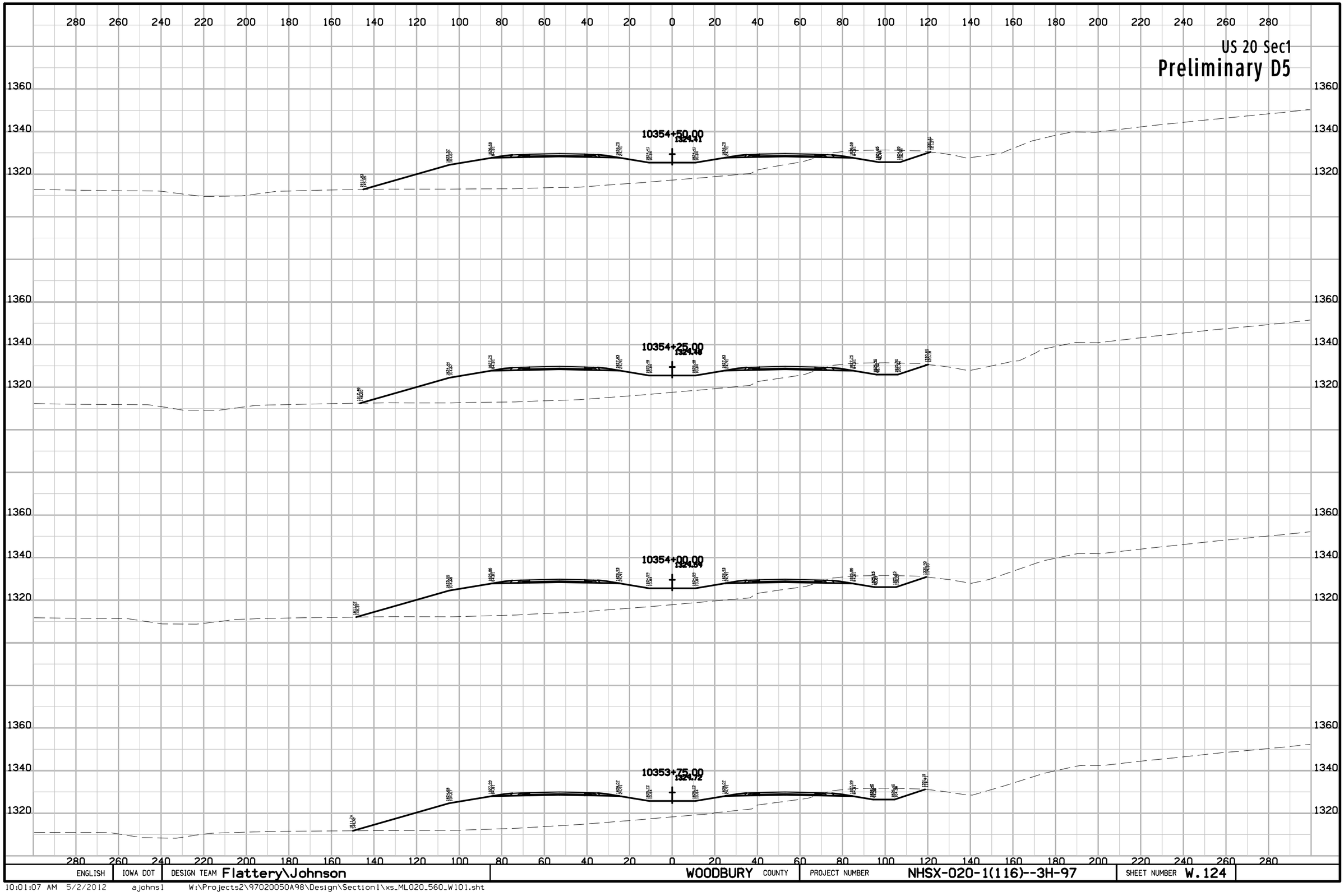
US 20 Sec1

Preliminary D5



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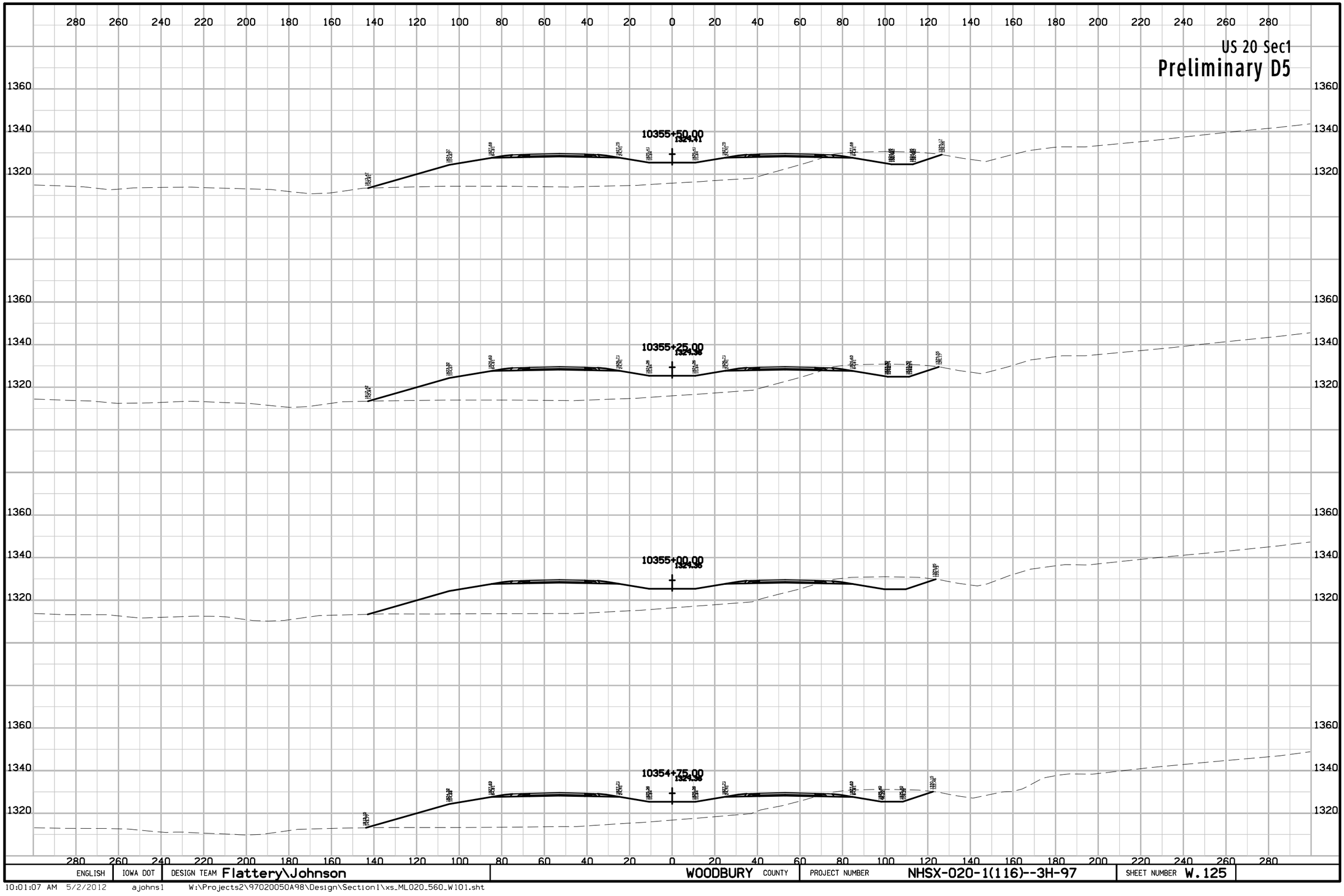
US 20 Sec1

Preliminary D5



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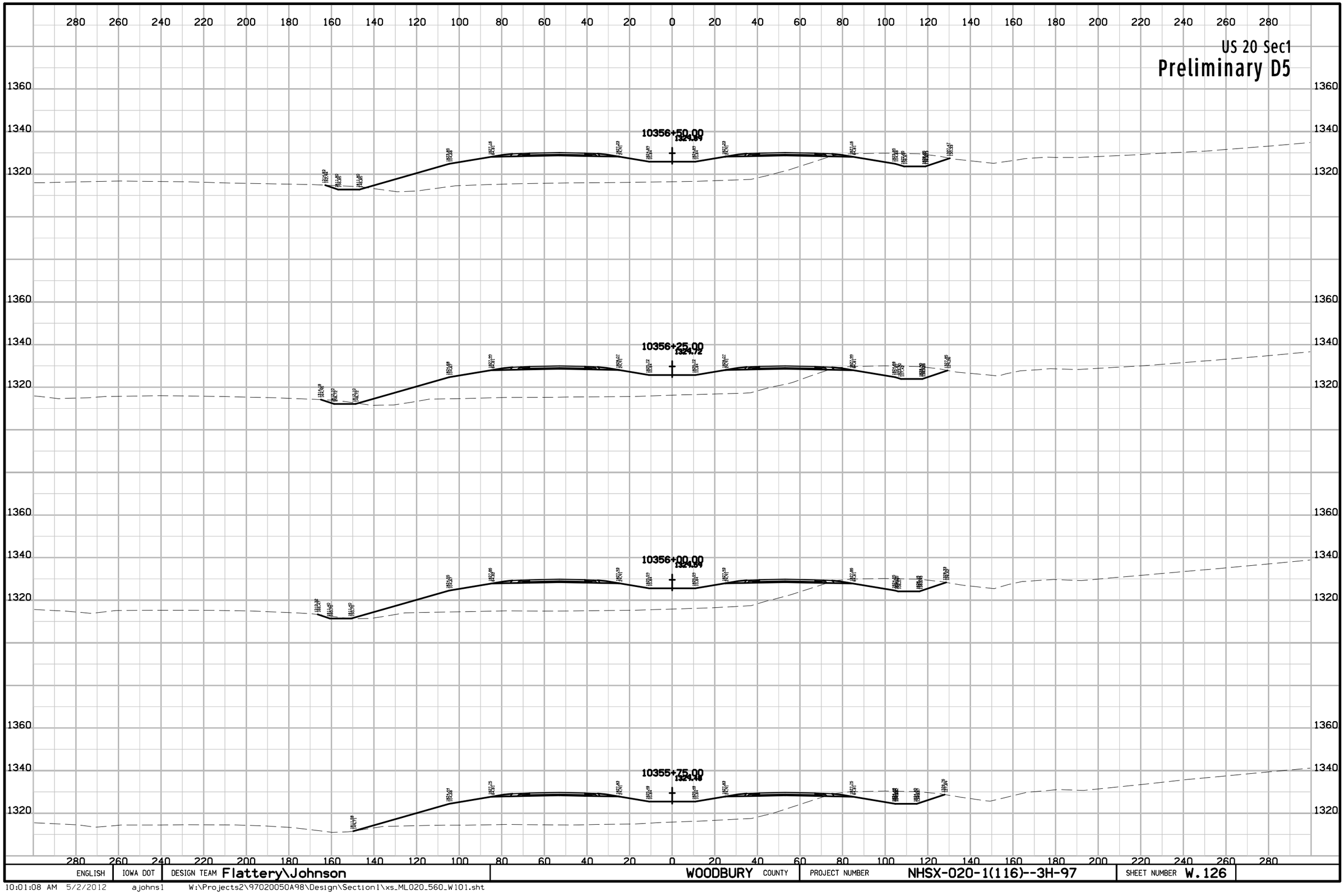
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.126

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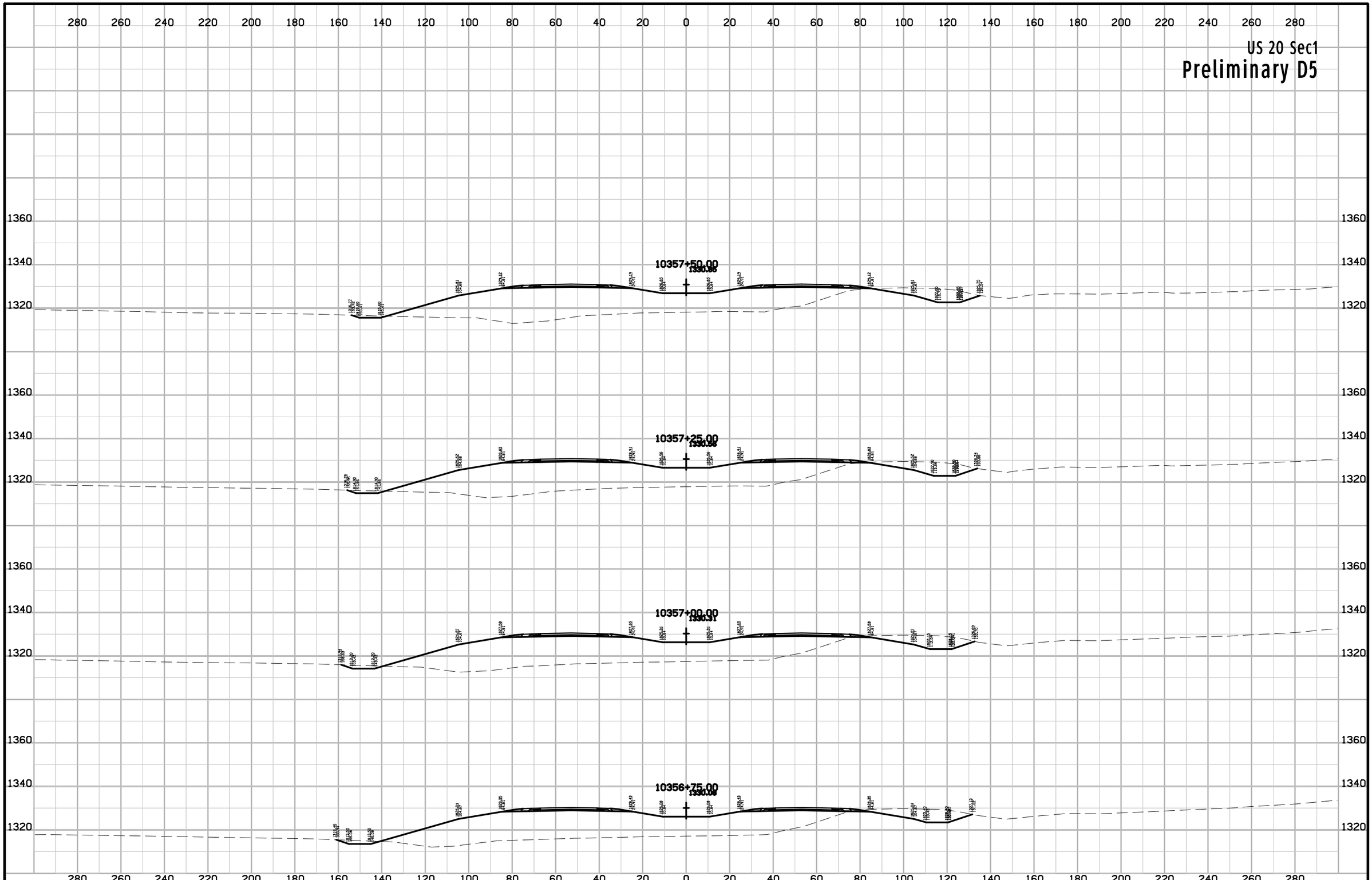
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.127

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US 20 Sec1

Preliminary D5

10358+75.00
1332.72

10358+50.00
1332.29

10358+25.00
1331.98

10358+00.00
1331.51

10357+75.00
1331.16

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.128

10:01:09 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D5

10360+00.00
1336.36

10359+75.00
1334.76

10359+50.00
1334.21

10359+25.00
1333.88

10359+00.00
1333.14

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.129

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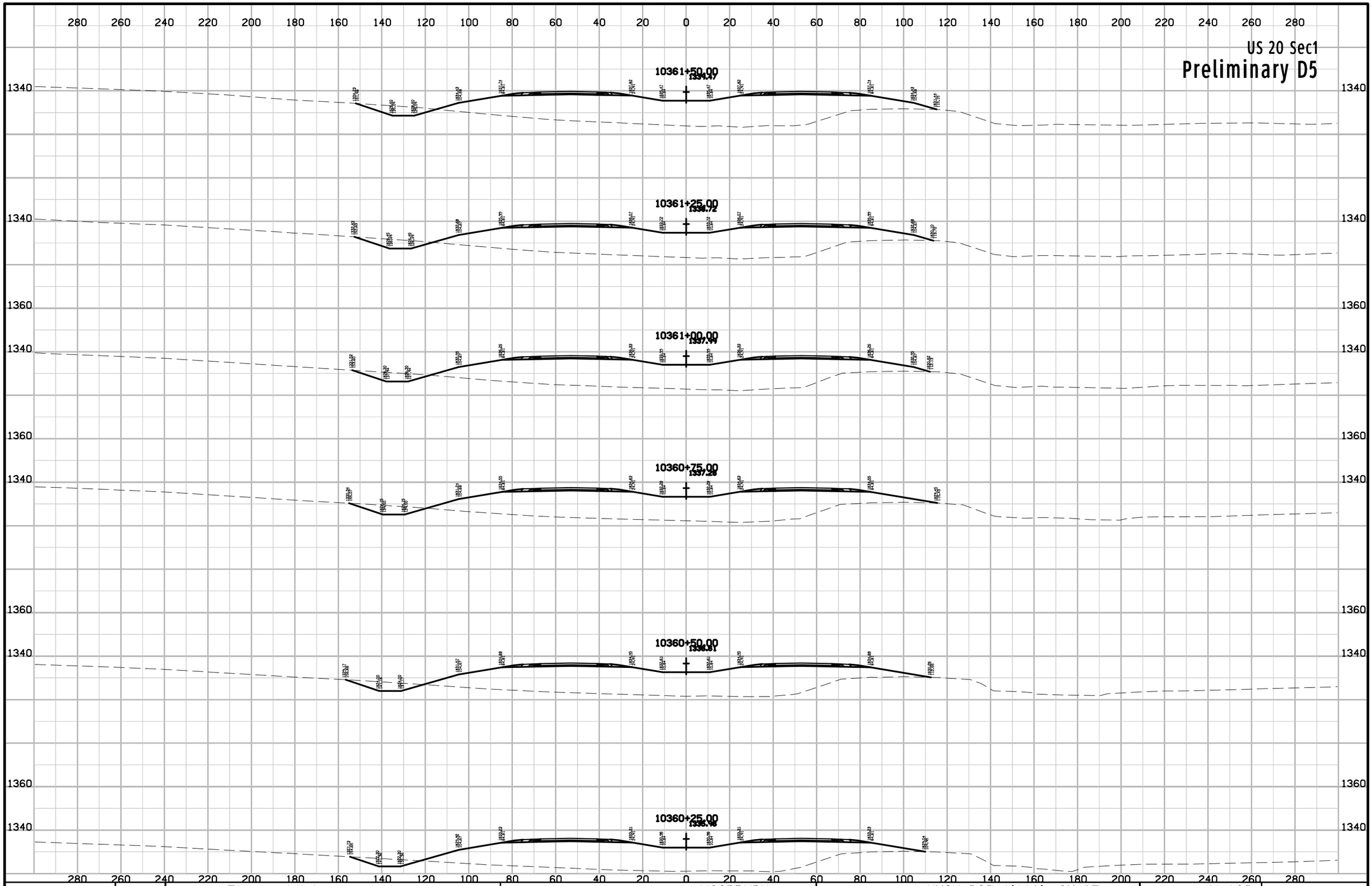
US 20 Sec1

Preliminary D5



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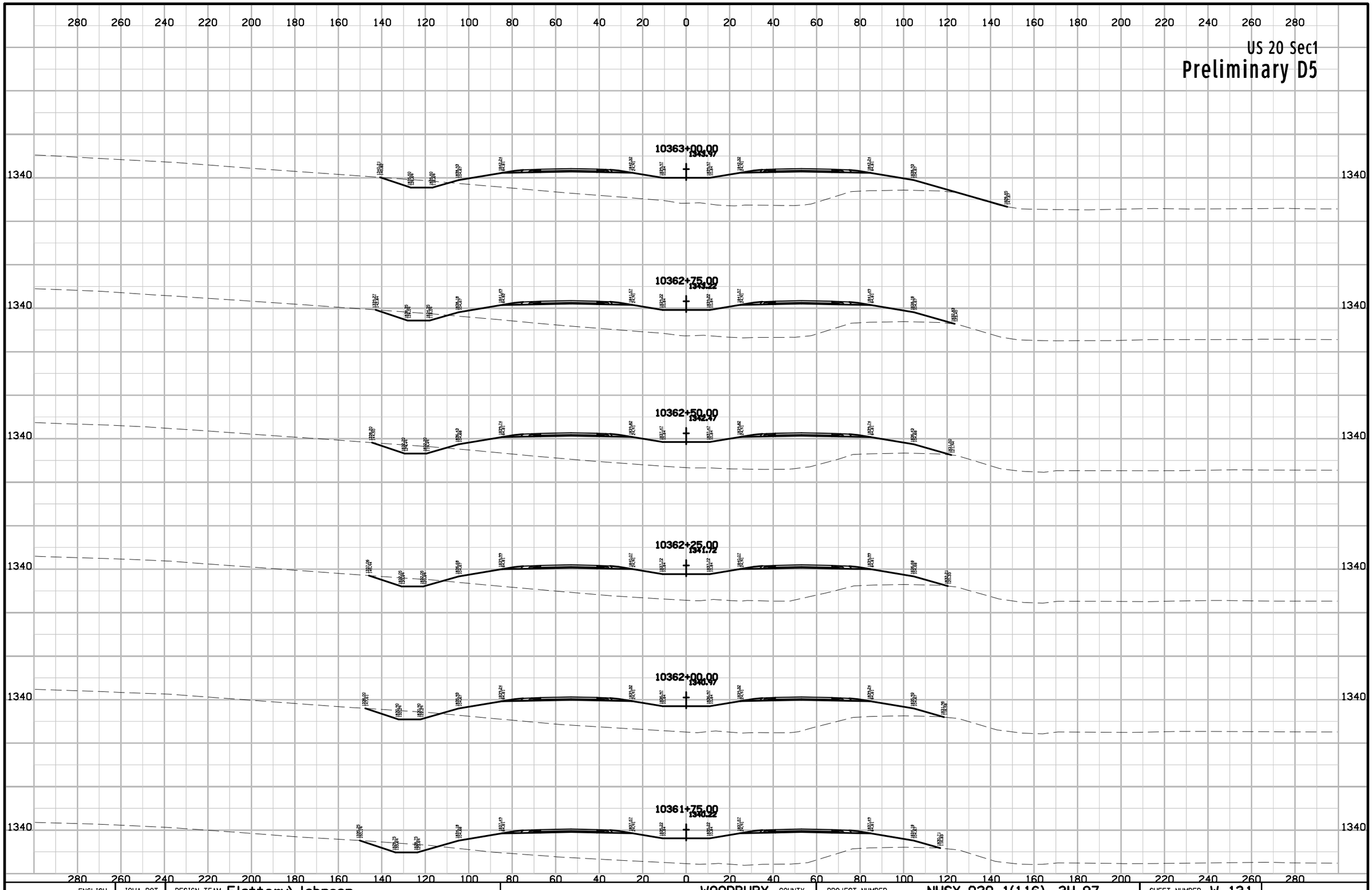
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.131

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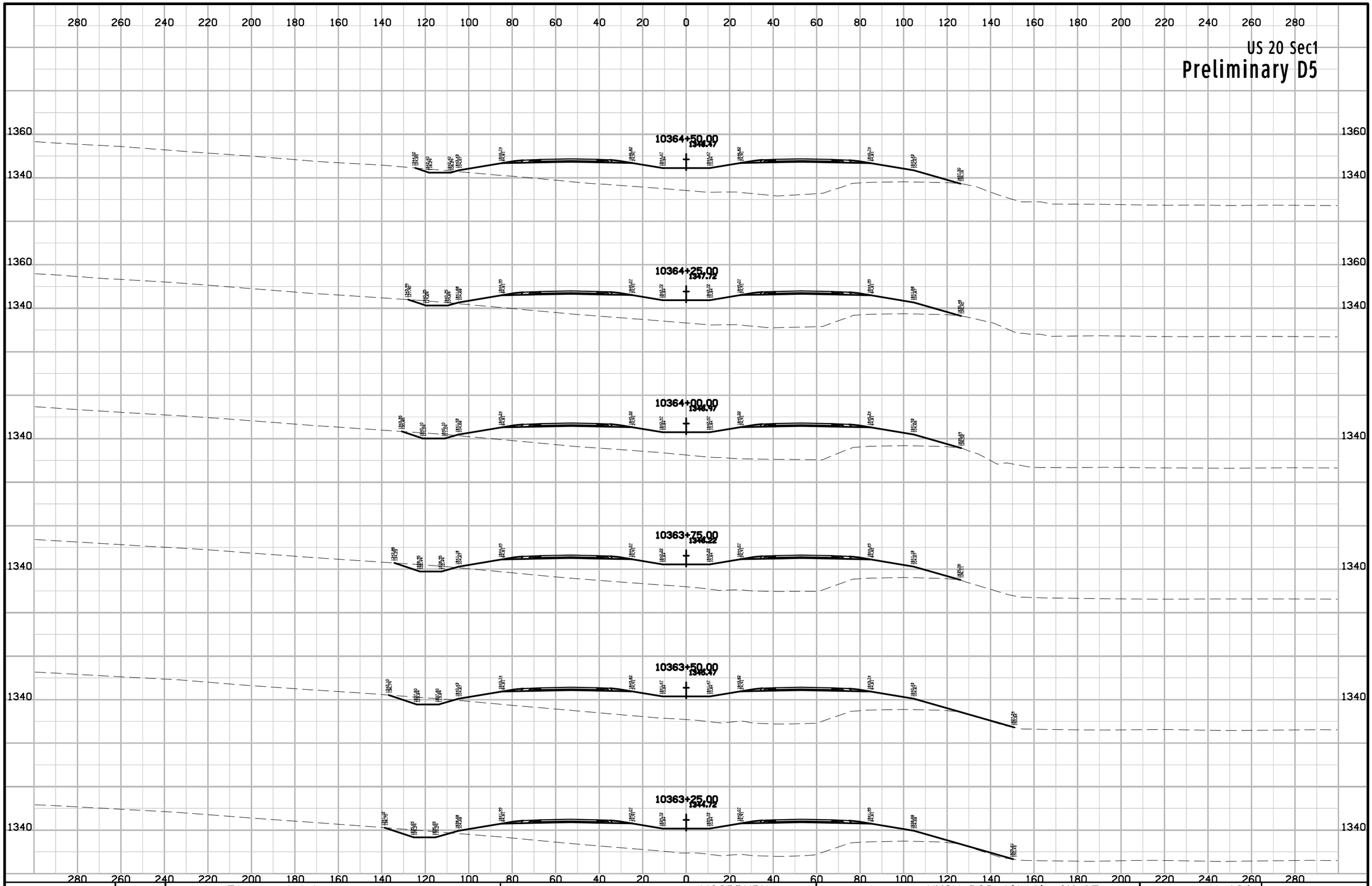
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.132

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US 20 Sec1

Preliminary D5

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10366+00.00
1362.47

10365+75.00
1362.22

10365+50.00
1361.47

10365+25.00
1360.72

10365+00.00
1344.97

10364+75.00
1344.22

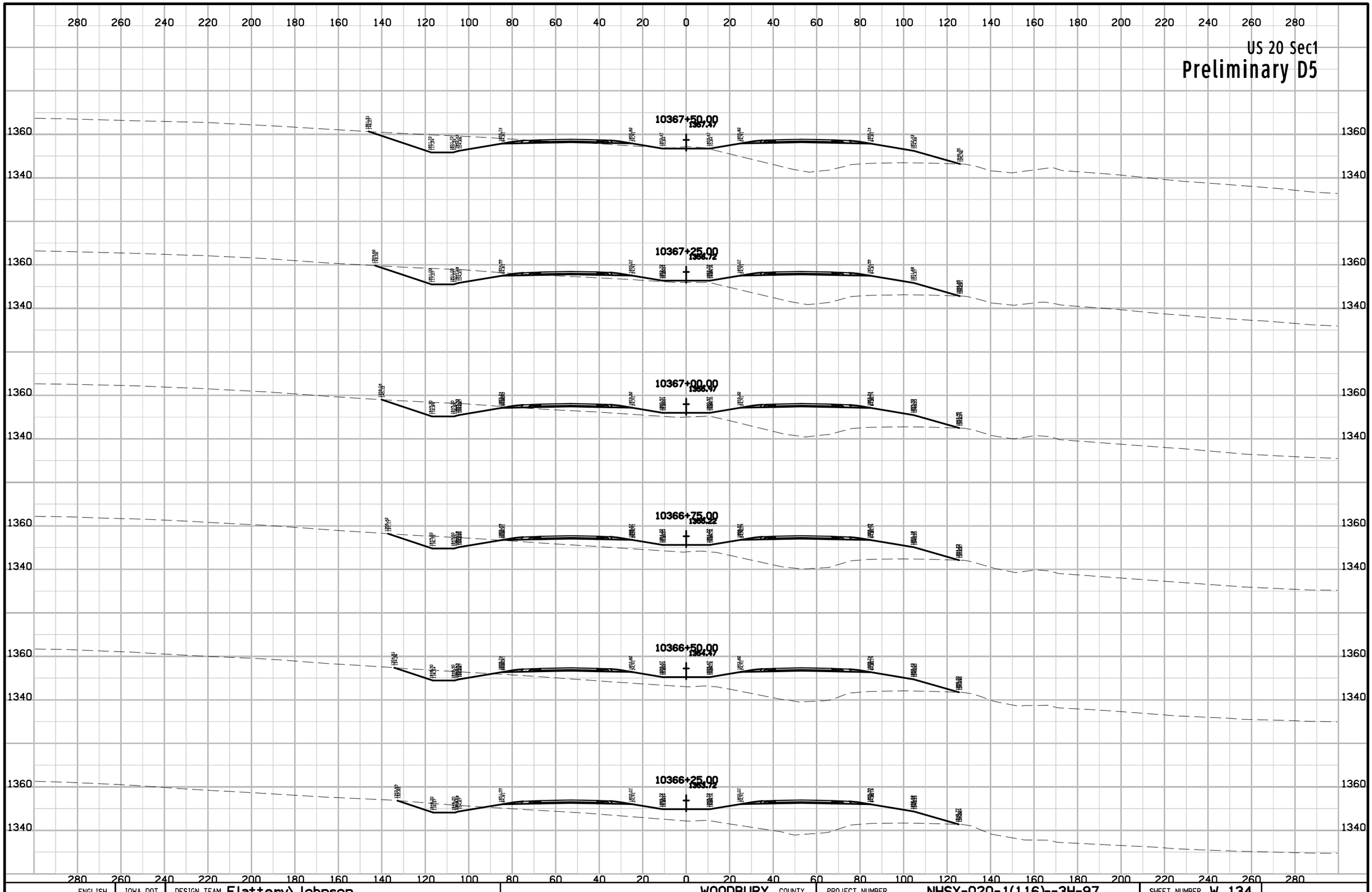
1360
1340

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.133

10:01:12 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.134

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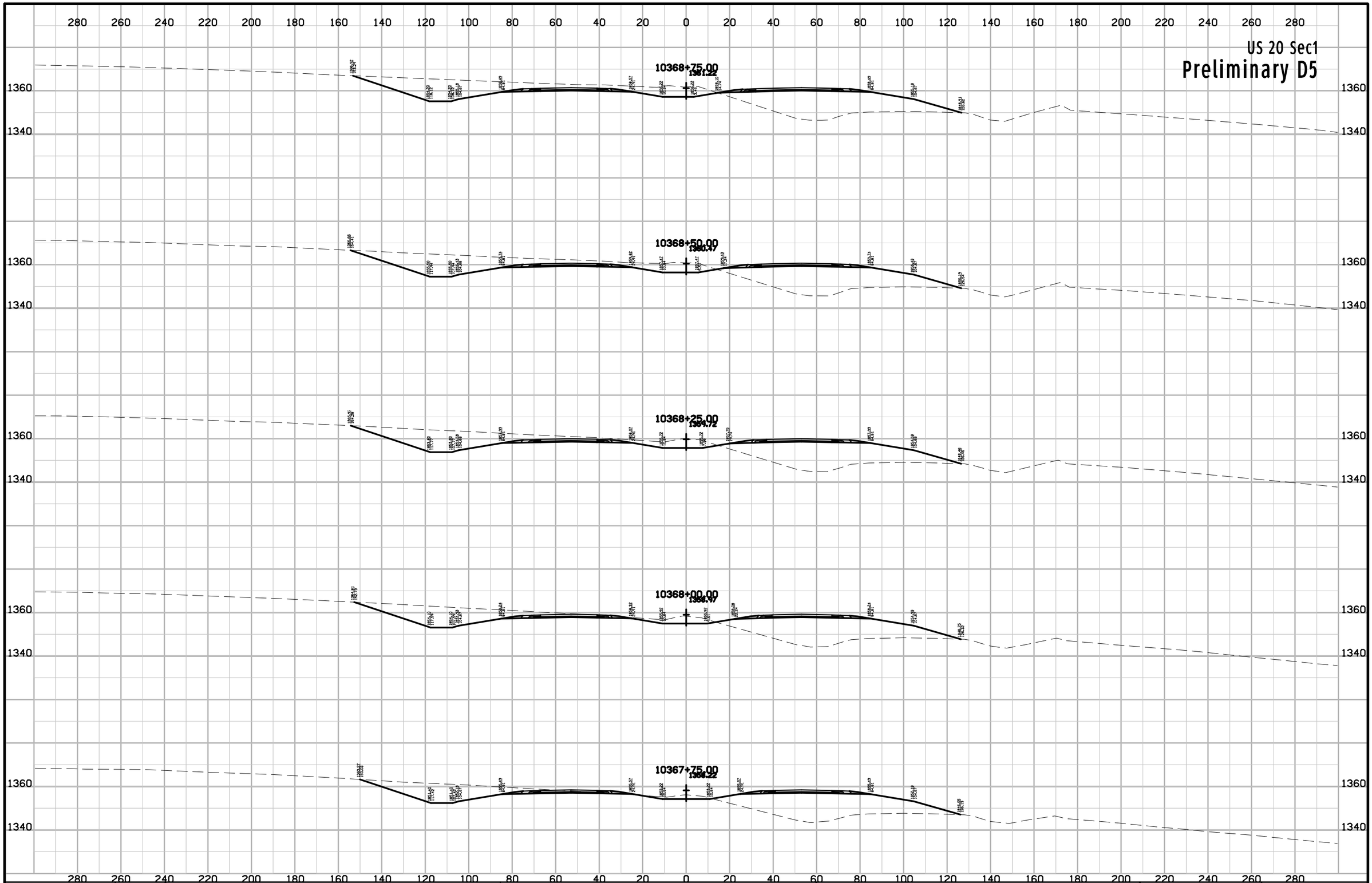
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.135

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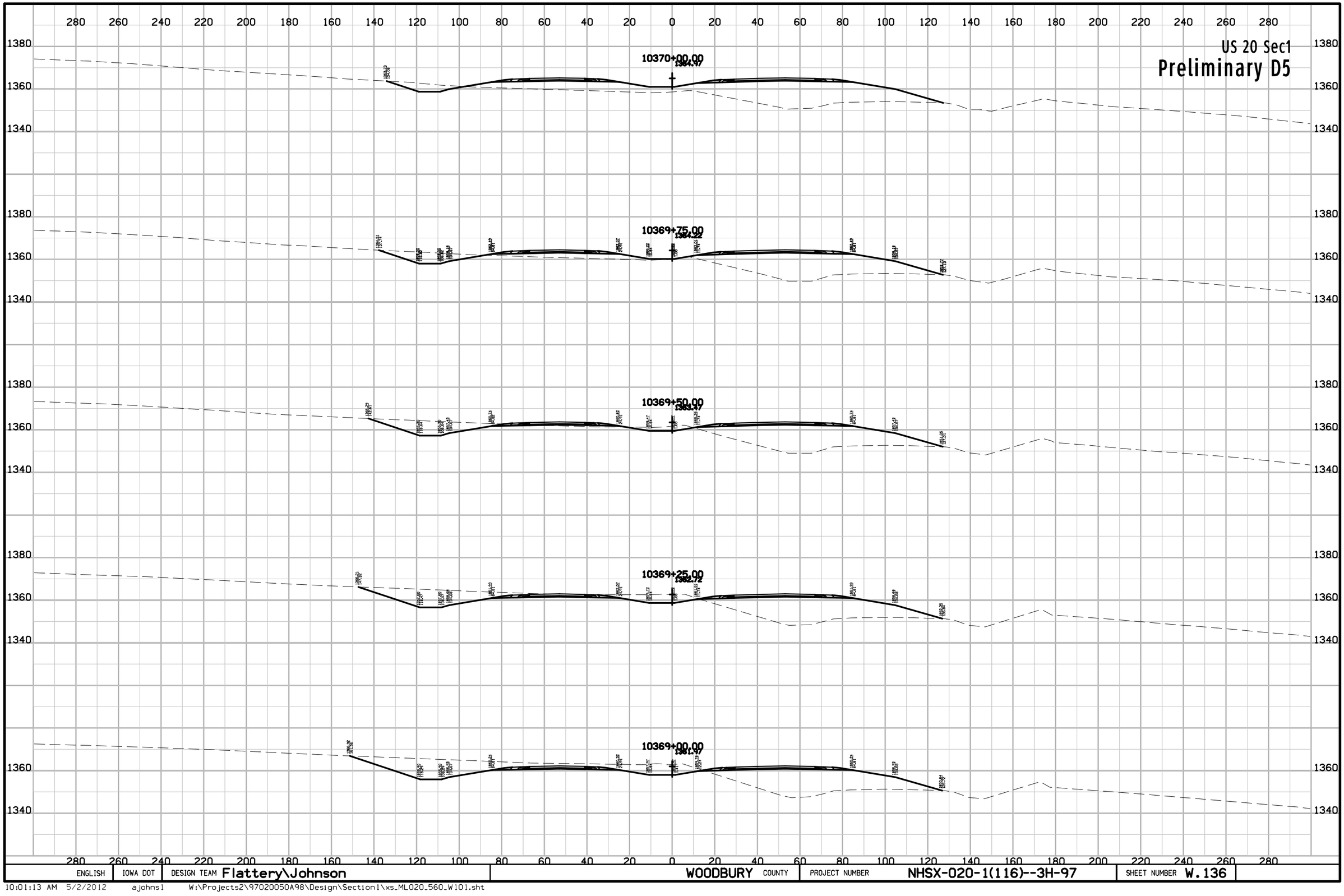
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.136

10:01:13 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1380
1360
1340

10371+00.00
1367.97

10370+75.00
1367.22

10370+50.00
1366.47

10370+25.00
1366.72

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.137

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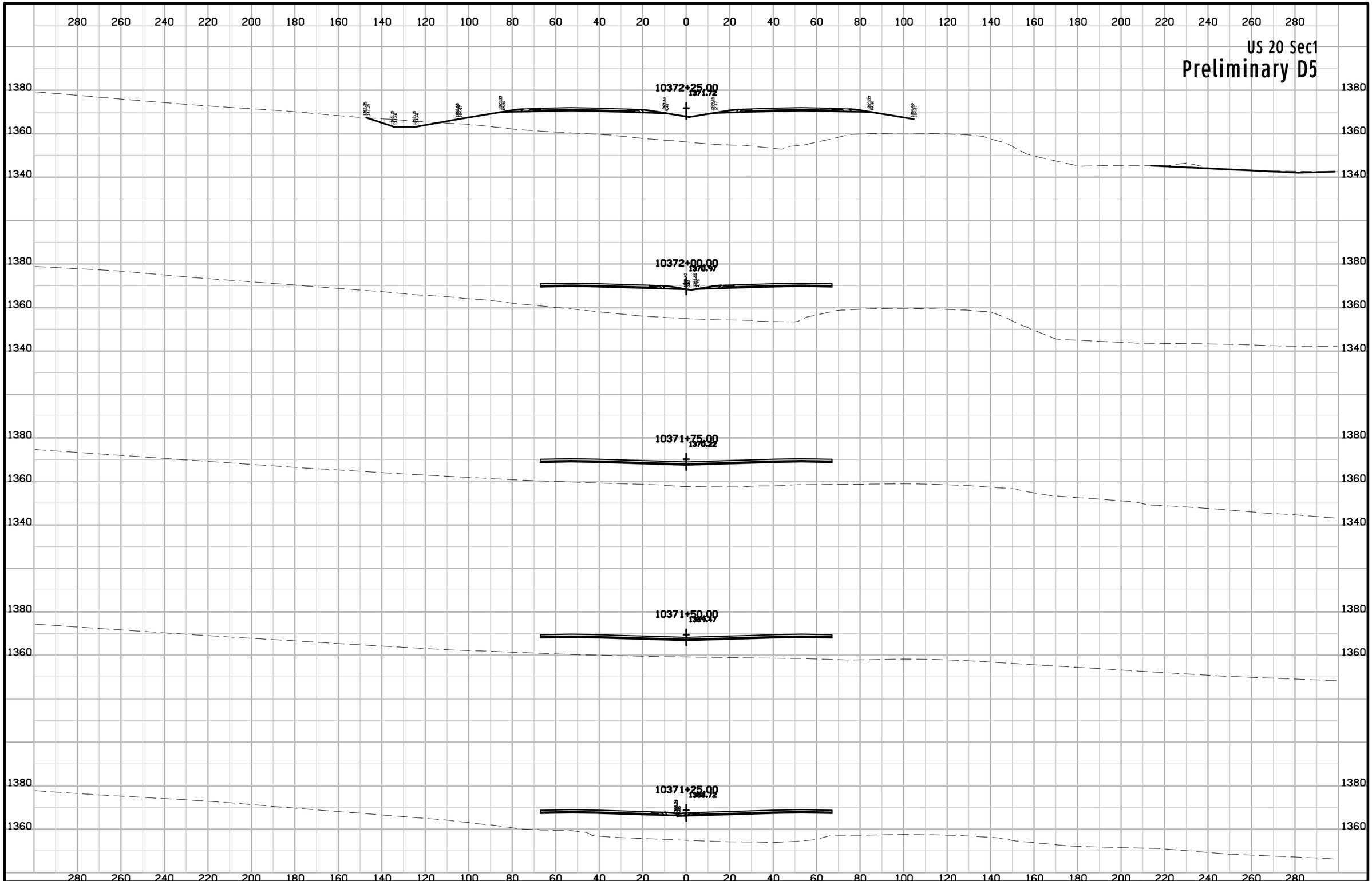
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.138

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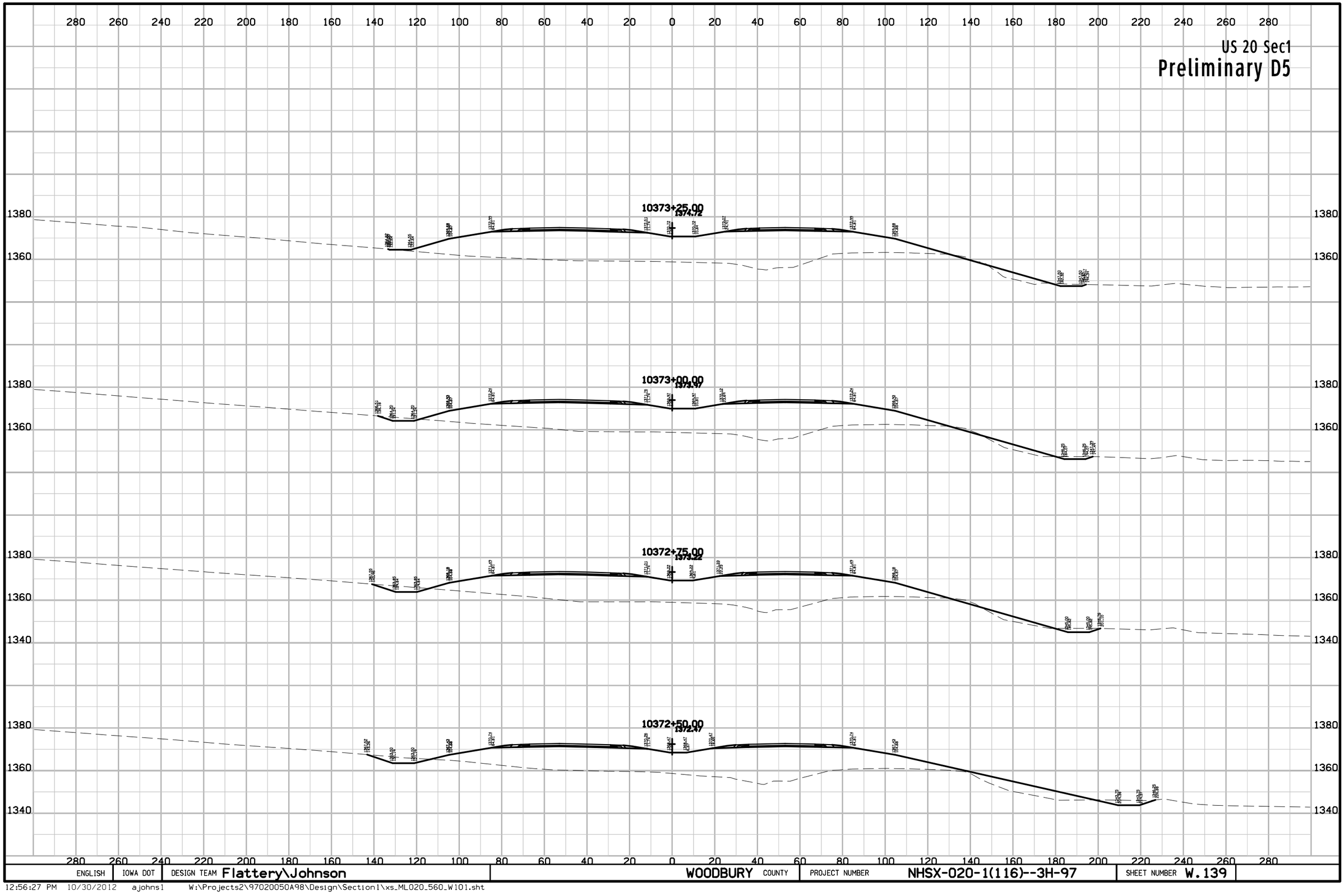
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.139

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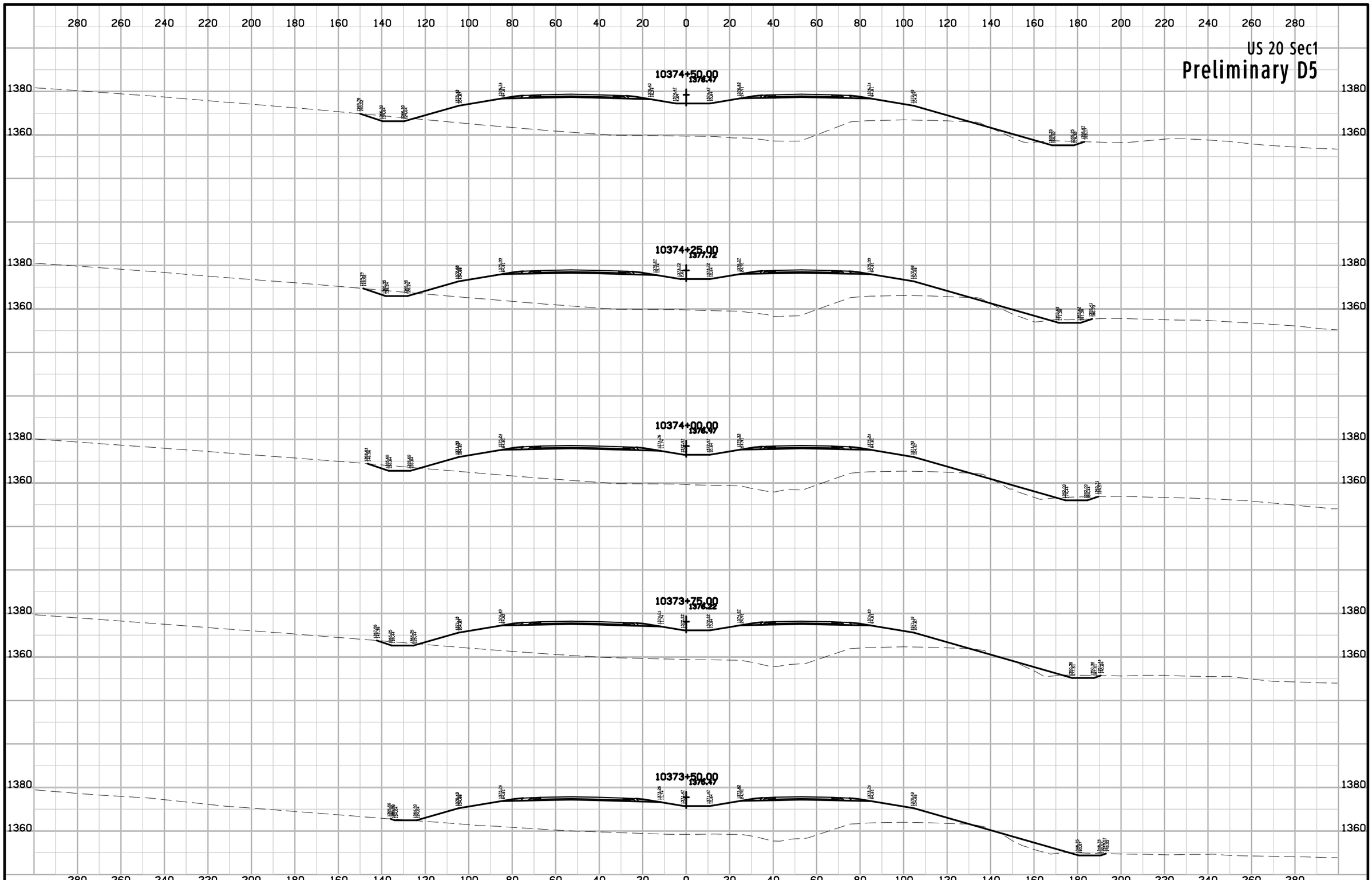
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.140

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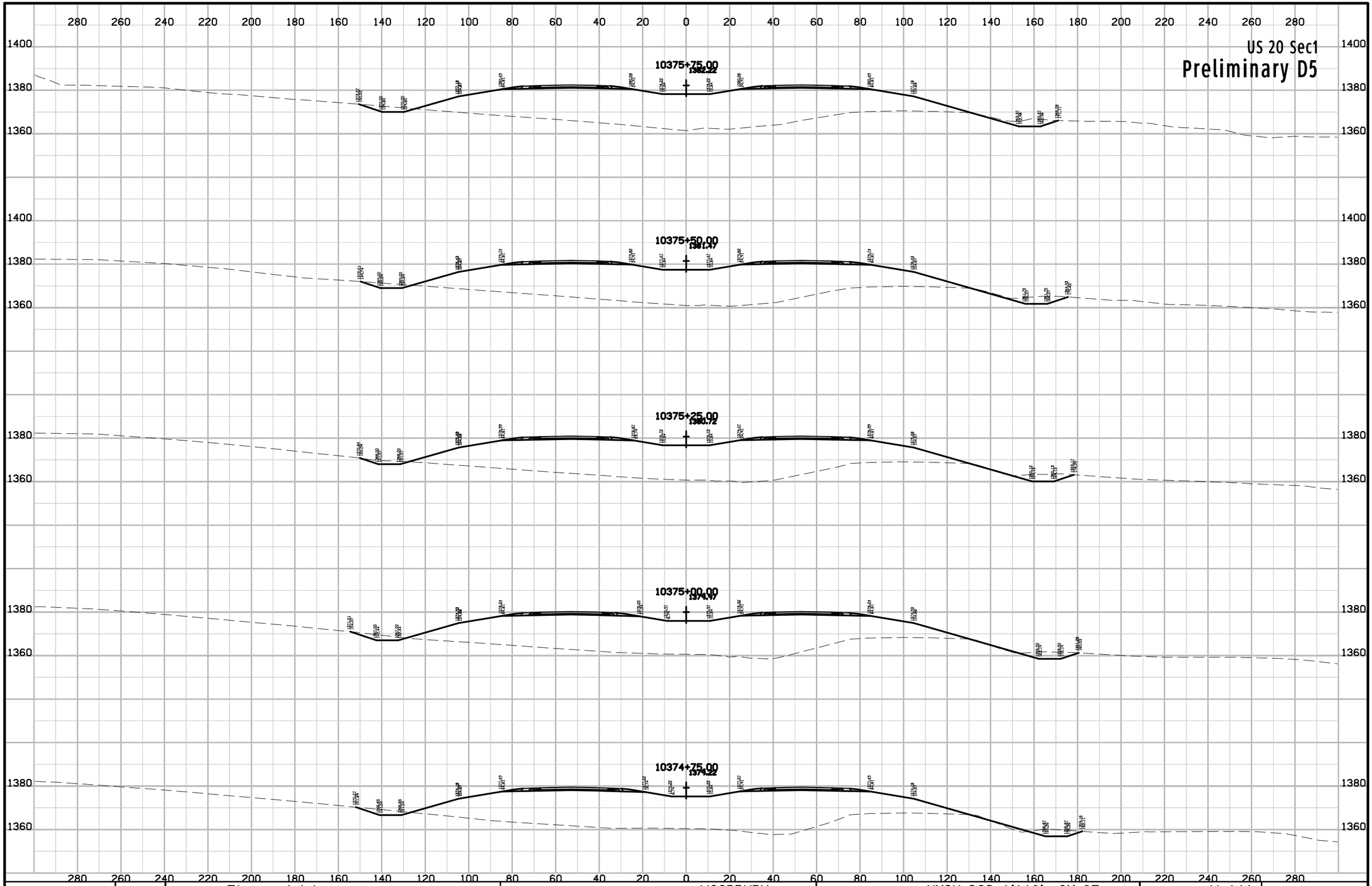
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.141

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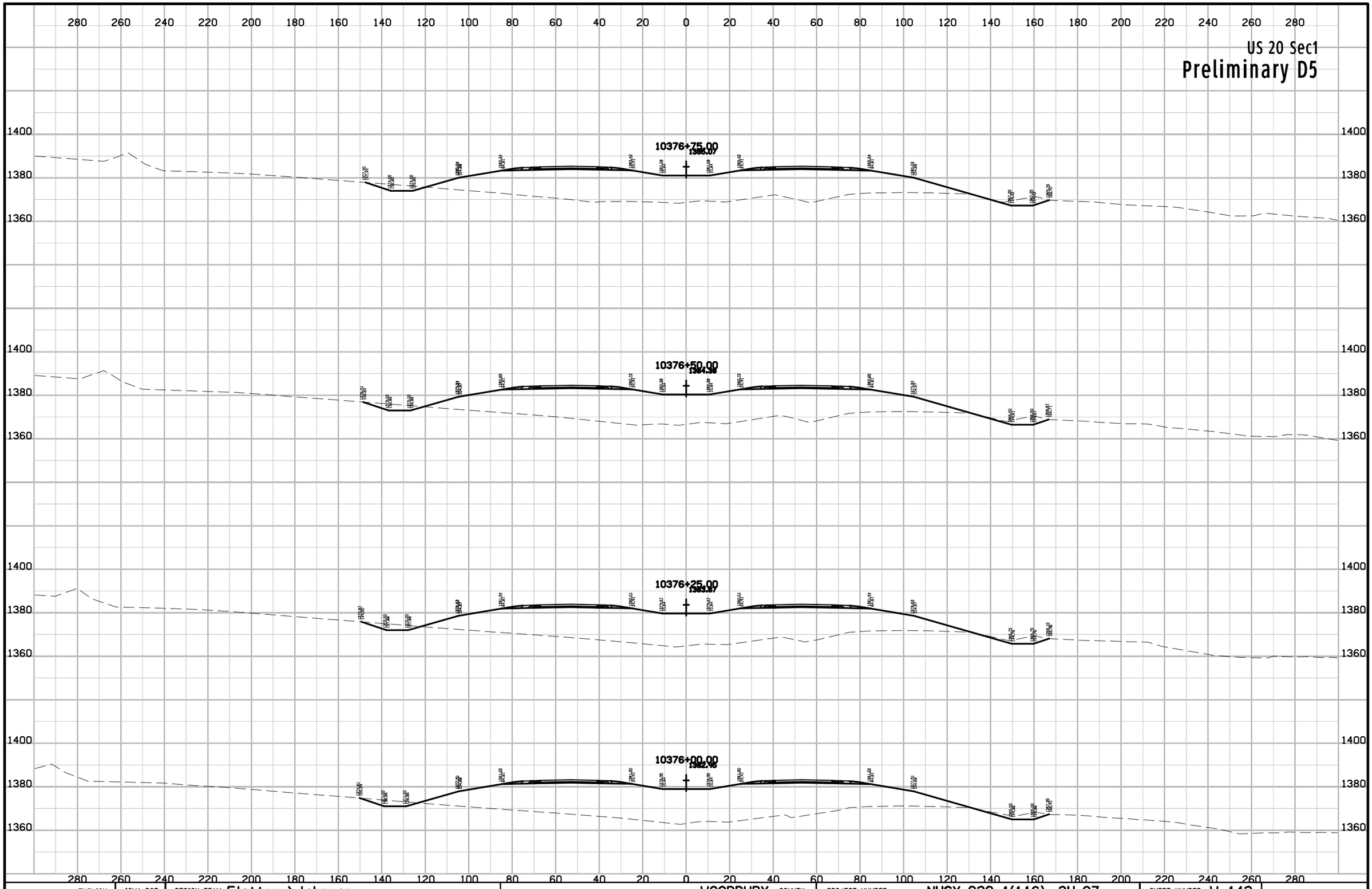
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.142

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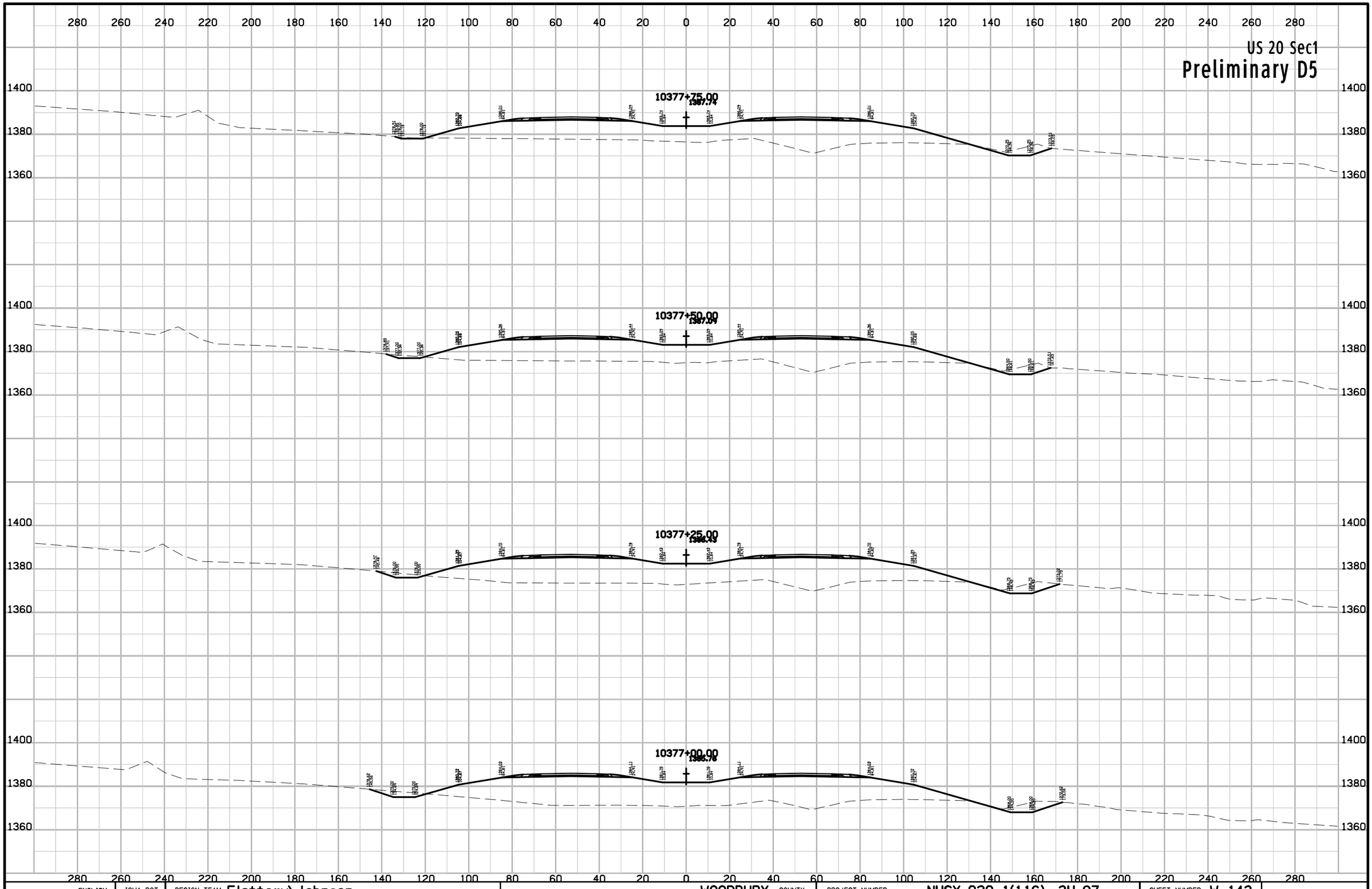
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.143

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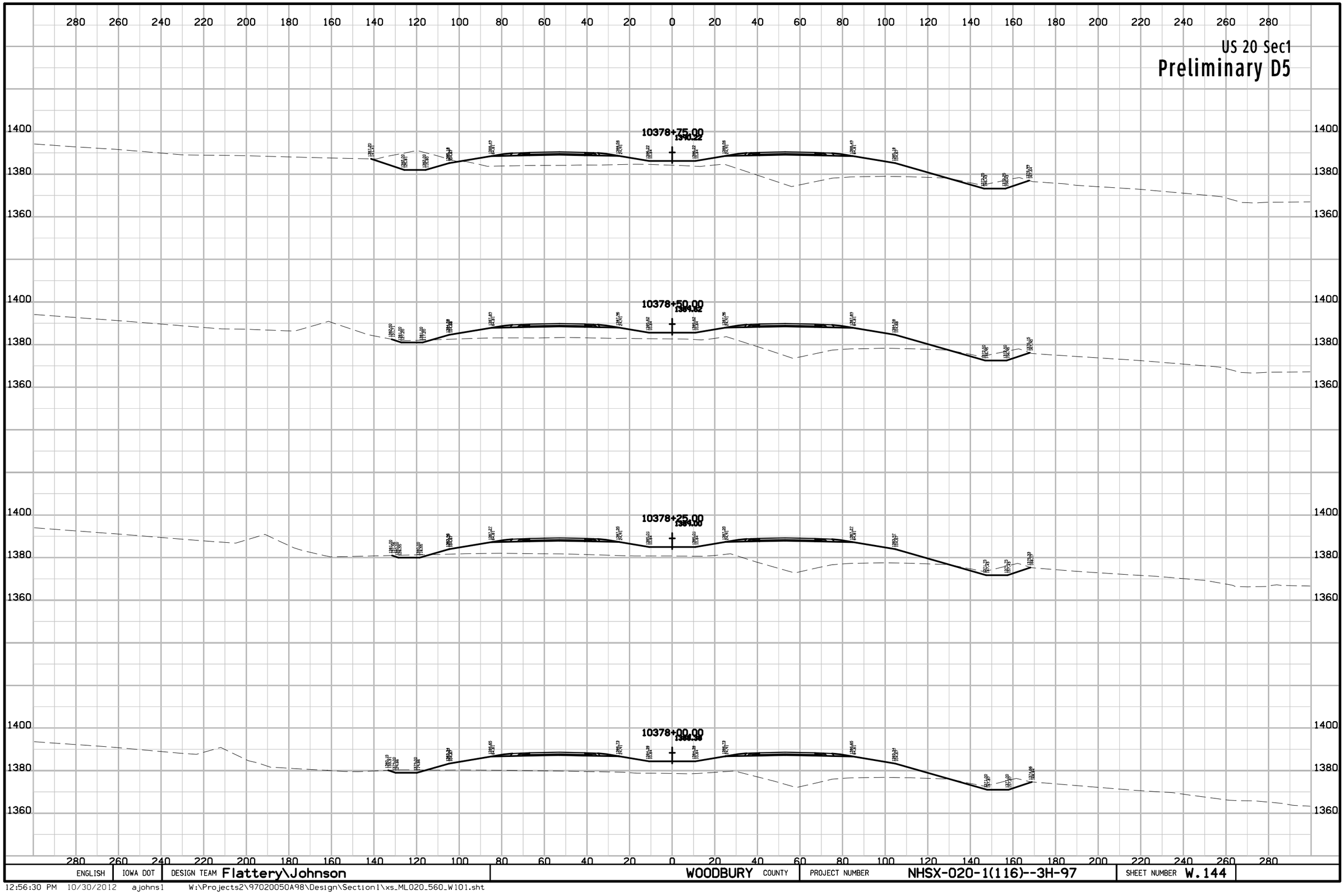
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.144

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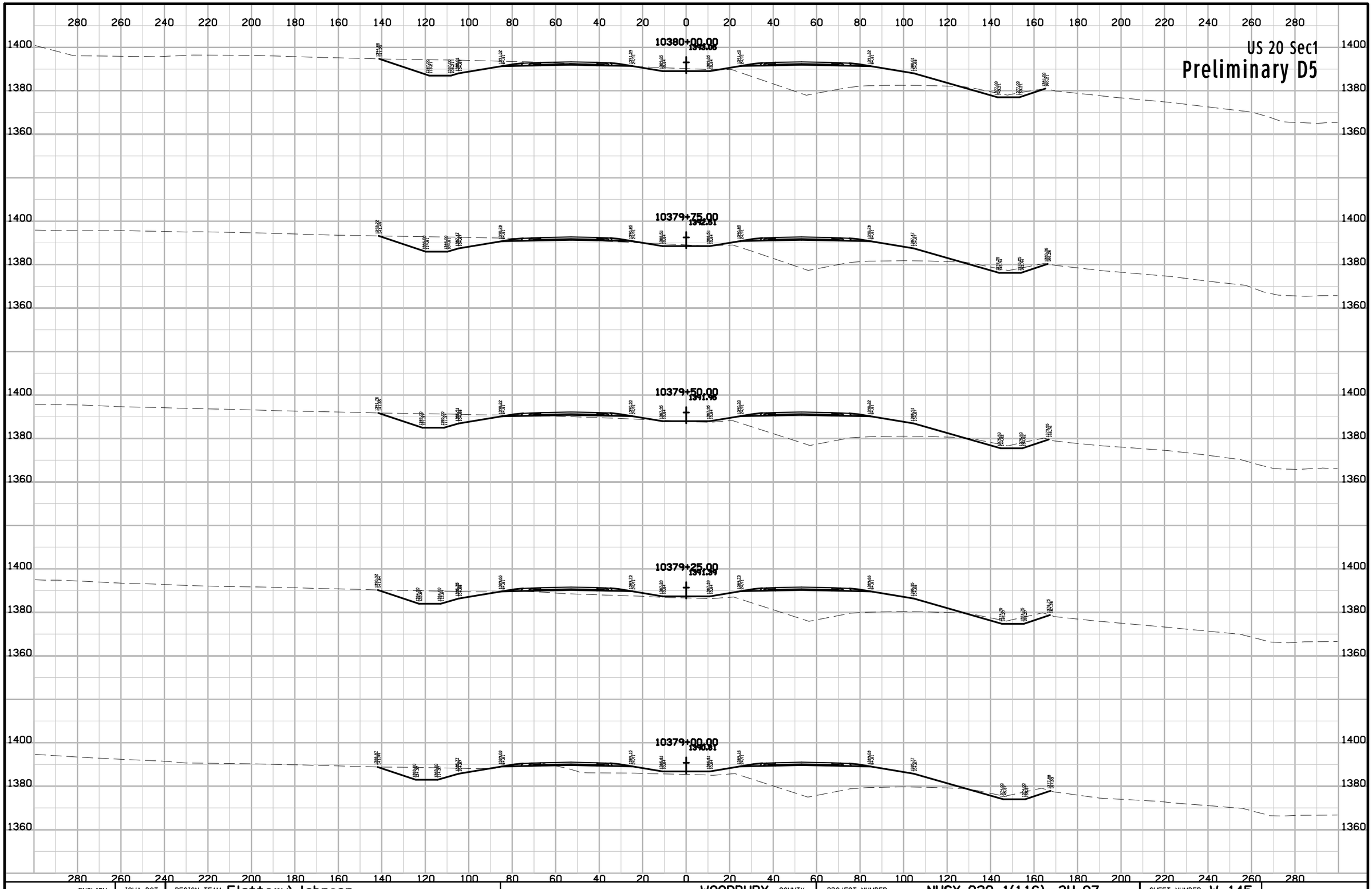
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.145	

12:56:31 PM 10/30/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D5

10381+25.00
1396.50

10381+00.00
1396.10

10380+75.00
1394.30

10380+50.00
1394.10

10380+25.00
1393.90

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.146

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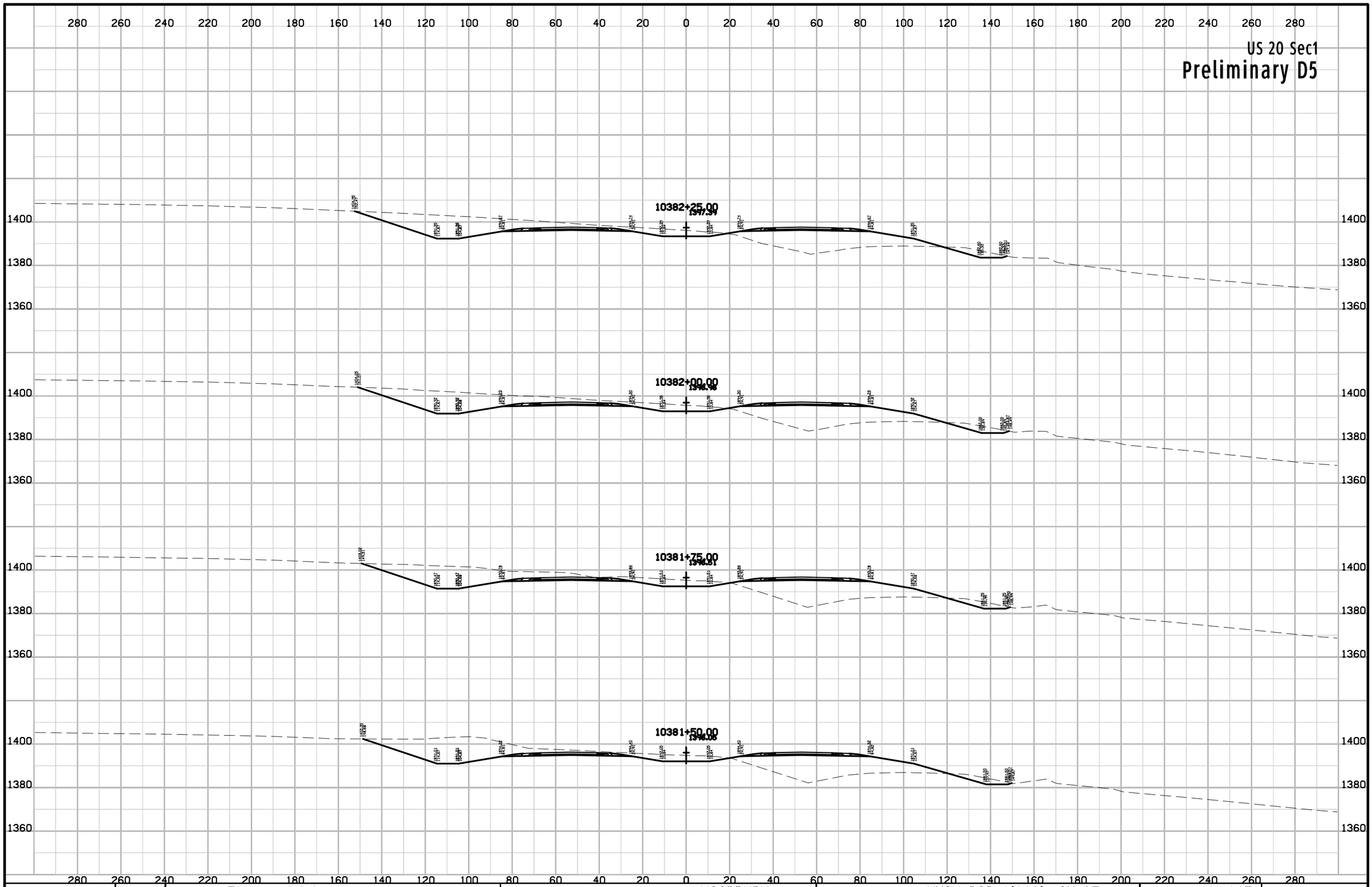
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.147

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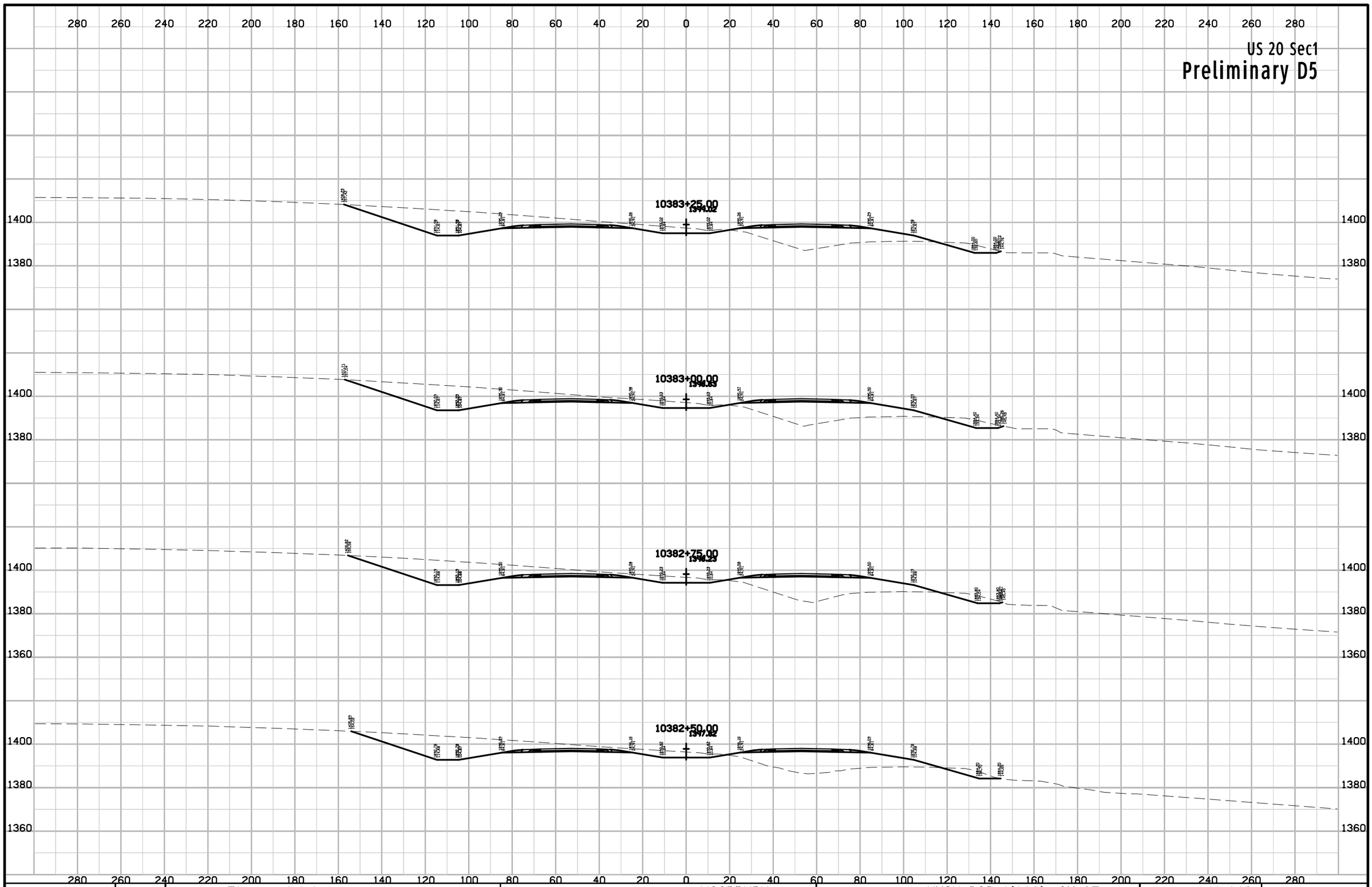
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.148

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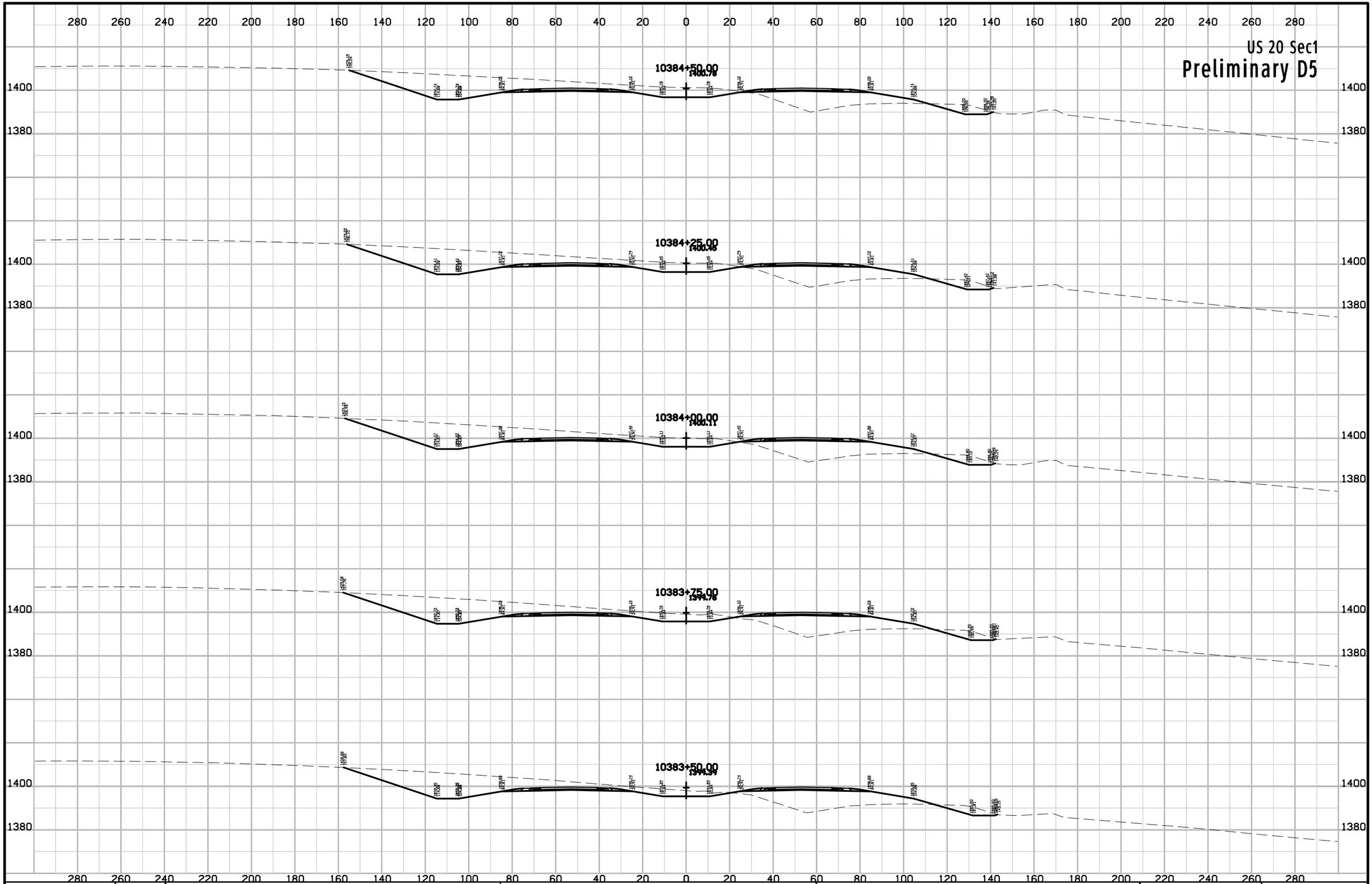
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.149

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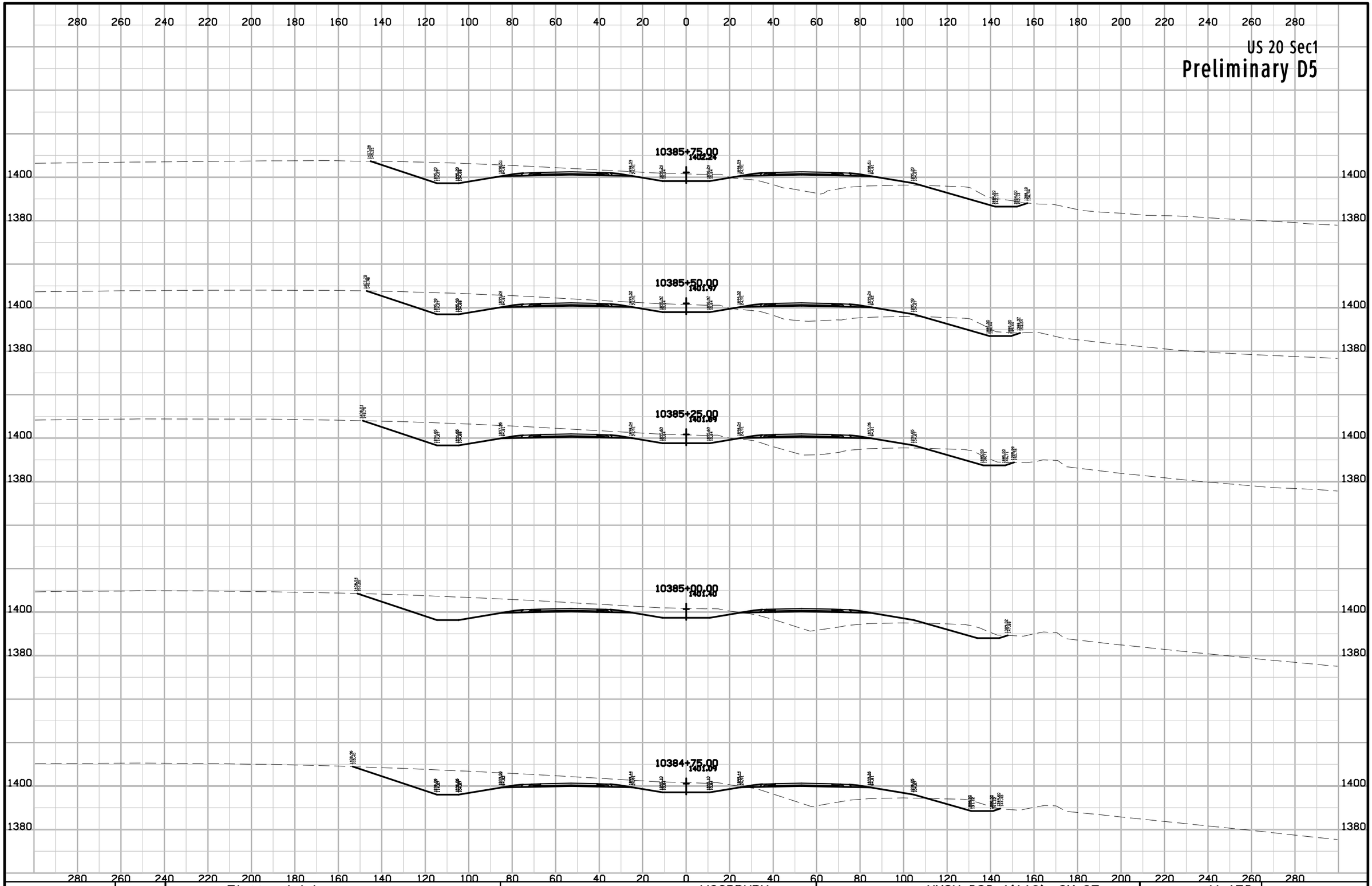
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.150

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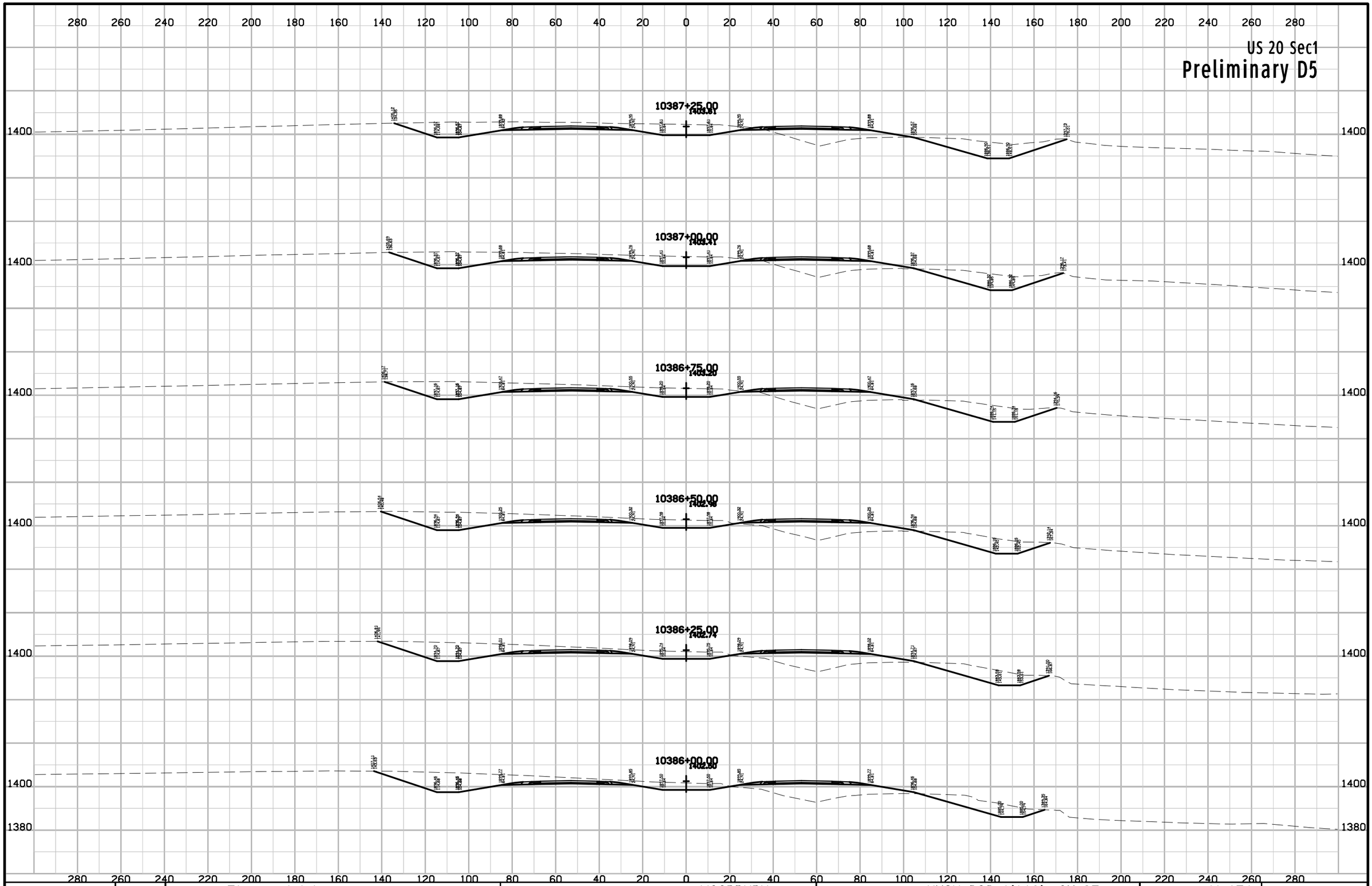
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.151

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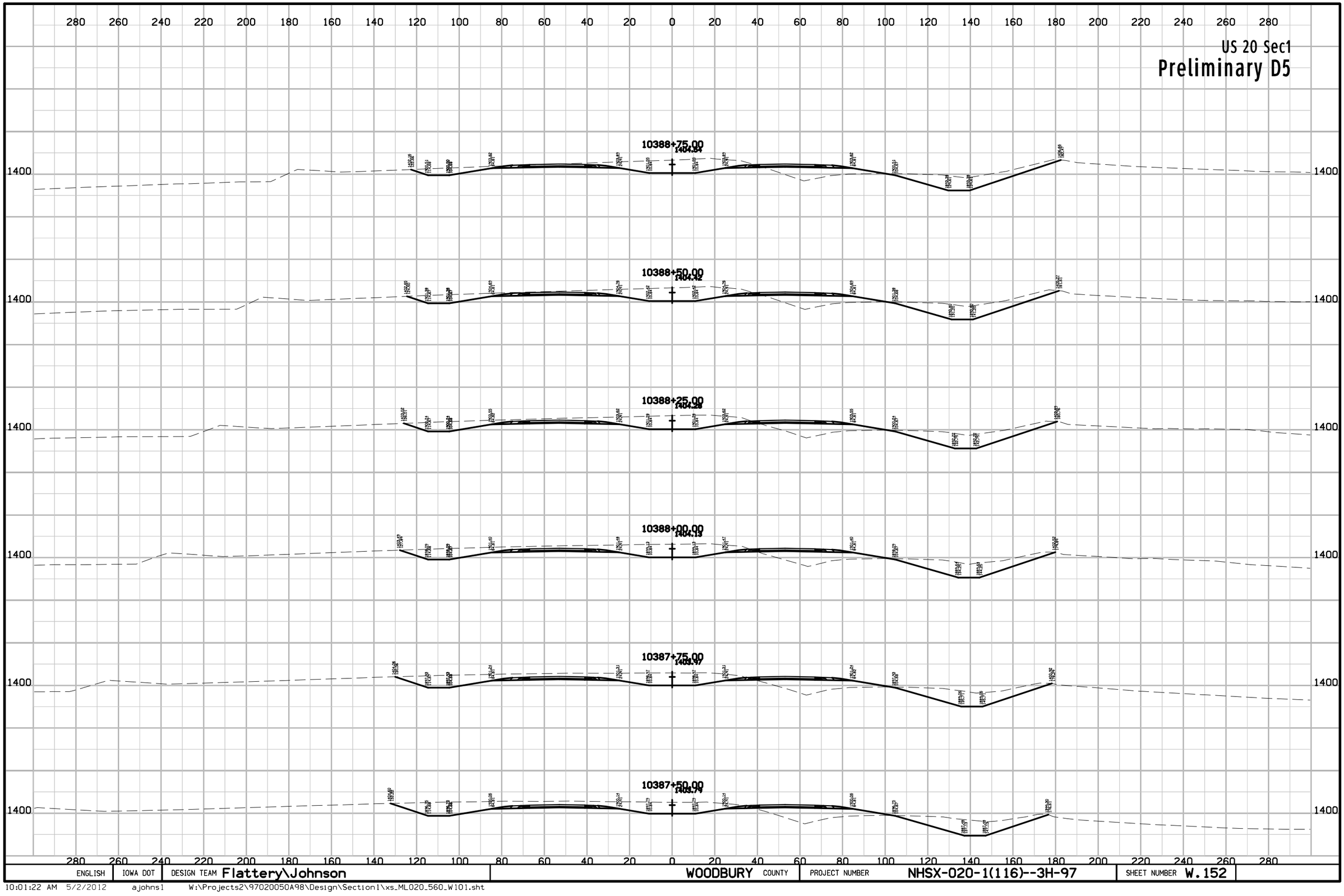
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.152

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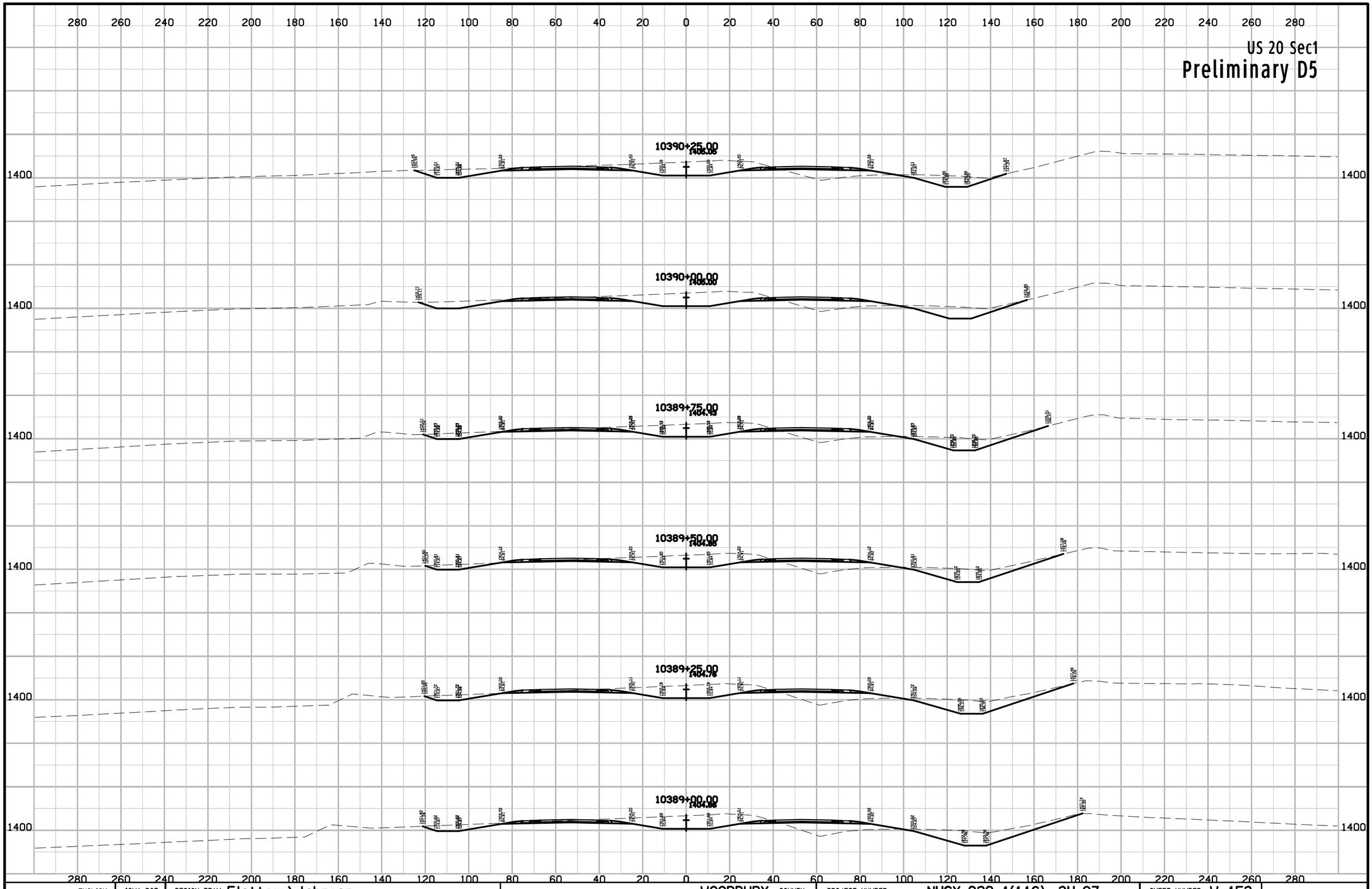
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.153

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

10392+00.00
1406.11

10391+75.00
1406.14

10391+50.00
1406.16

10391+25.00
1406.16

10391+00.00
1406.16

10390+75.00
1406.13

10390+50.00
1406.10

1400

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.154

10:01:23 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

10393+75.00
1404.58

10393+50.00
1404.39

10393+25.00
1404.79

10393+00.00
1404.98

10392+75.00
1404.96

10392+50.00
1406.02

10392+25.00
1406.07

1400

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.155

10:01:24 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

10395+25.00
1403.67

10395+00.00
1403.98

10394+75.00
1404.32

10394+50.00
1404.18

10394+25.00
1404.32

10394+00.00
1404.48

1400

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.156

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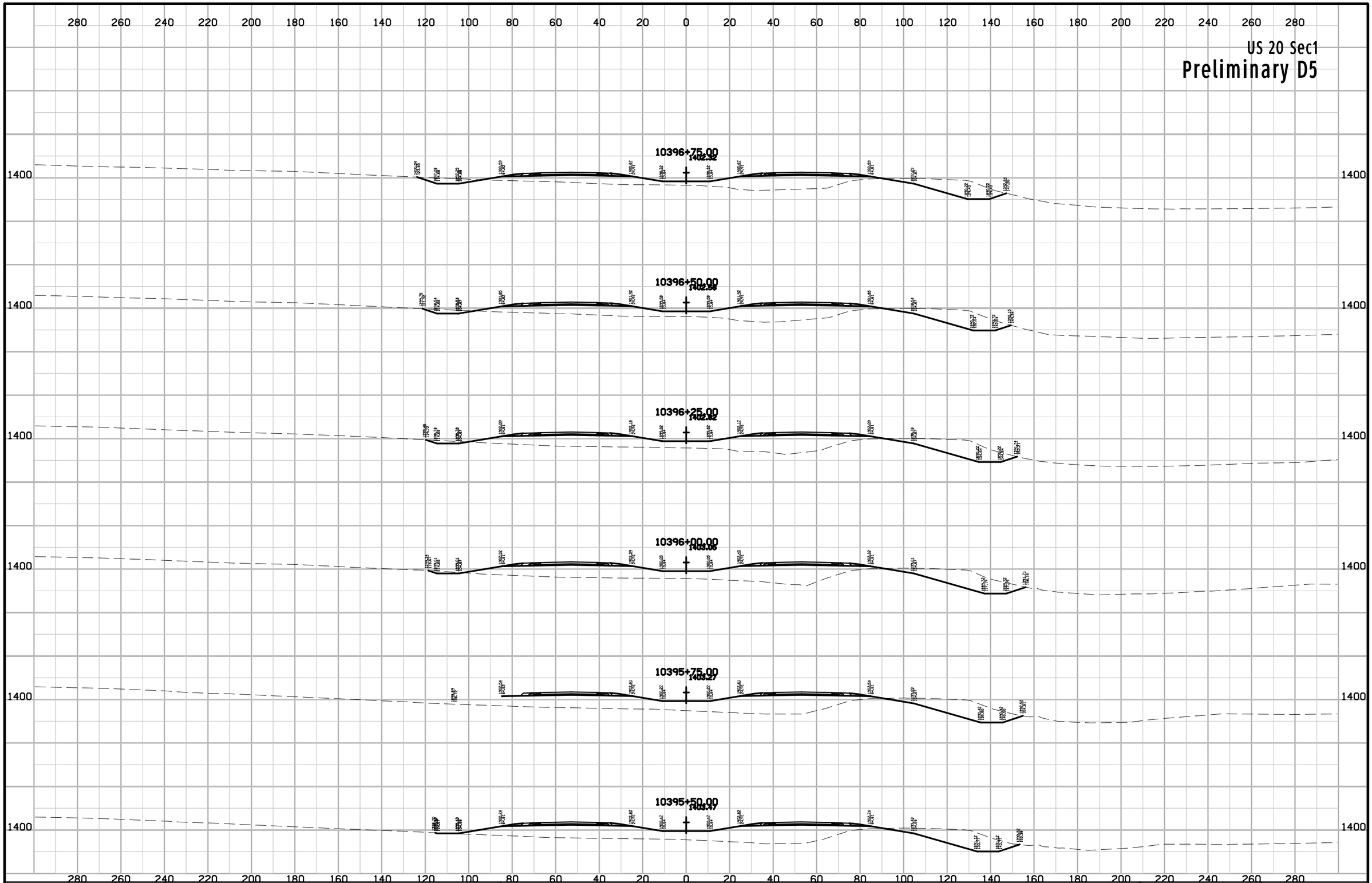
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.157

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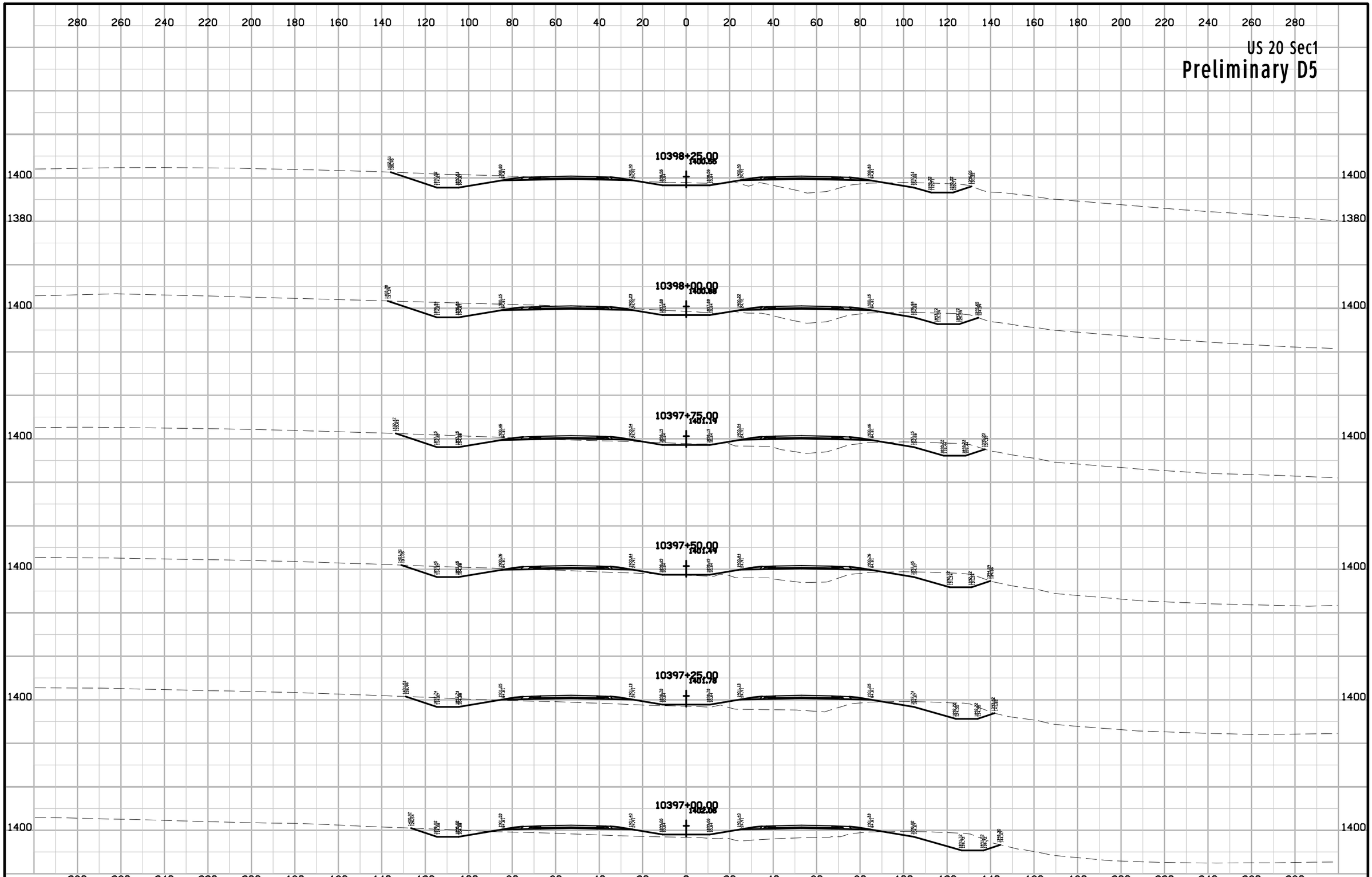

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.158

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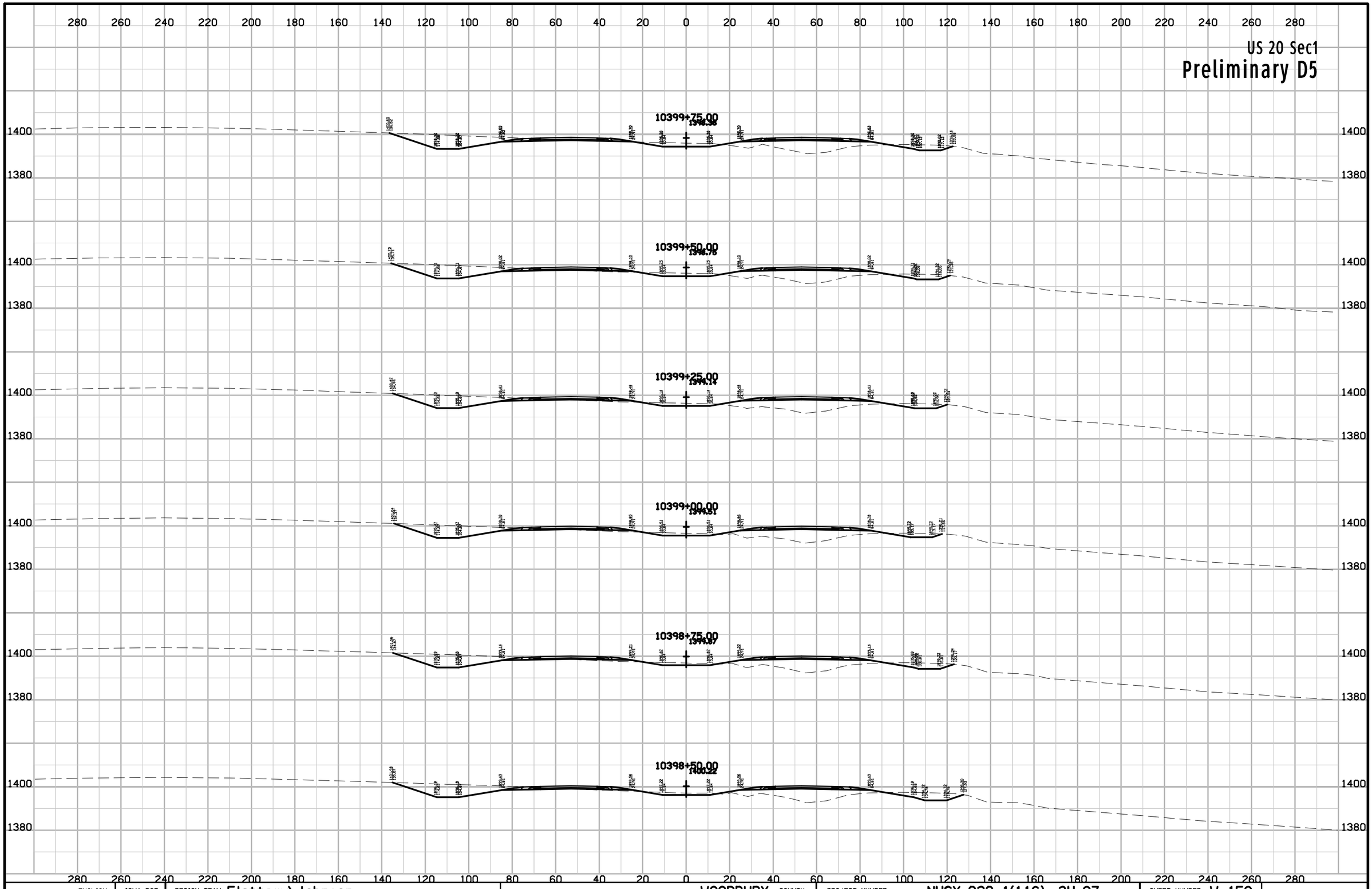
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.159

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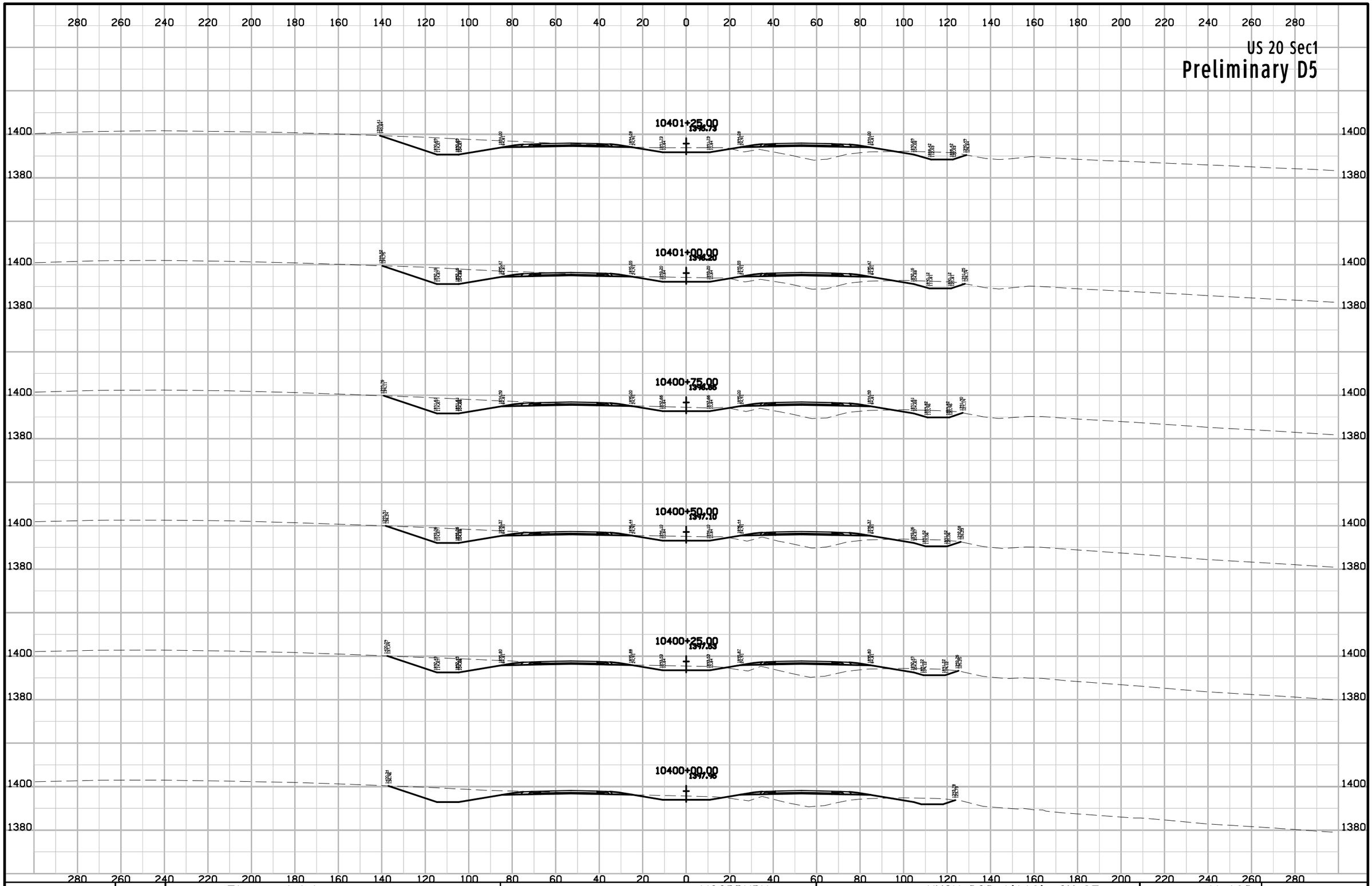
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.160

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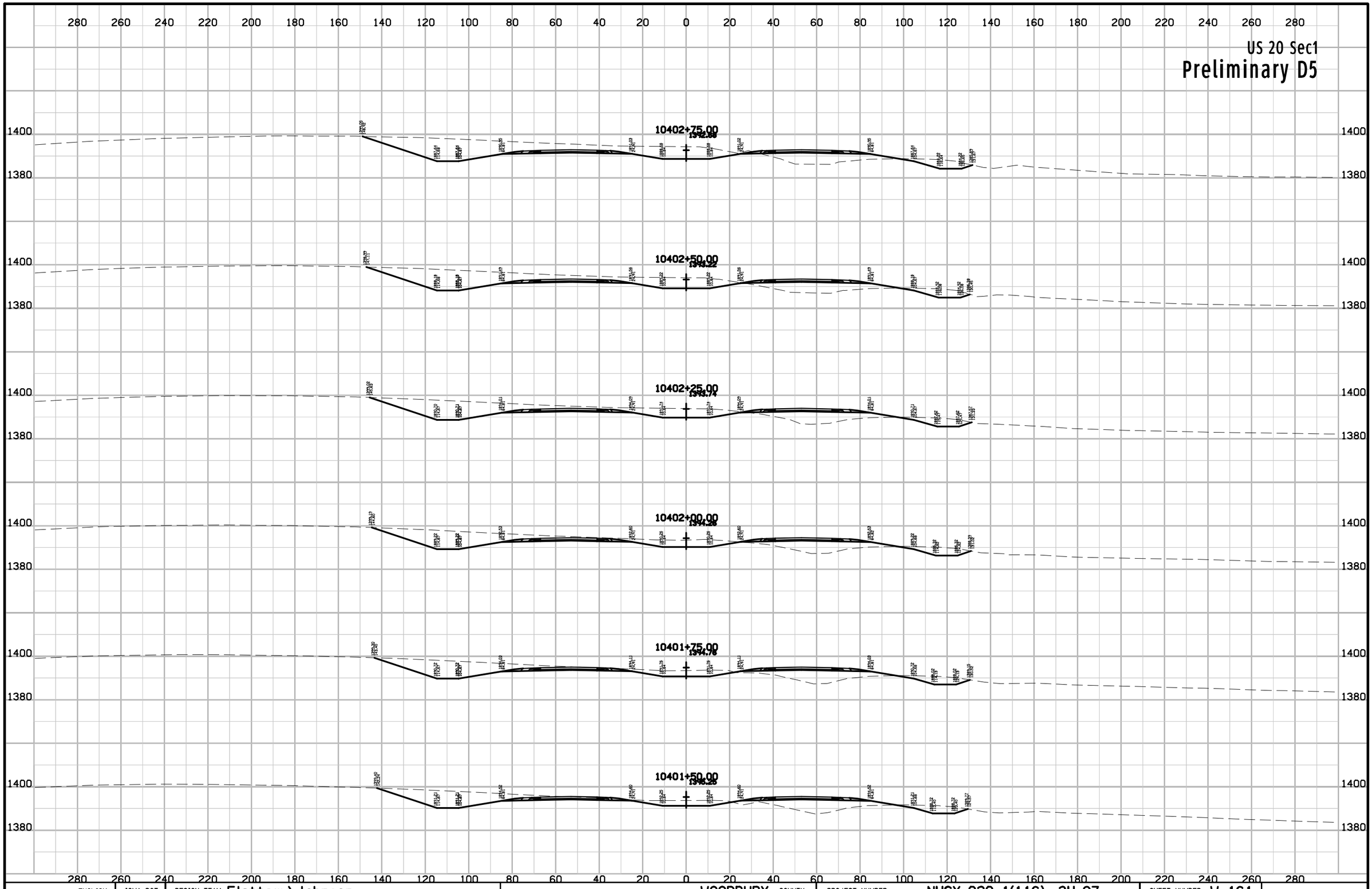
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.161

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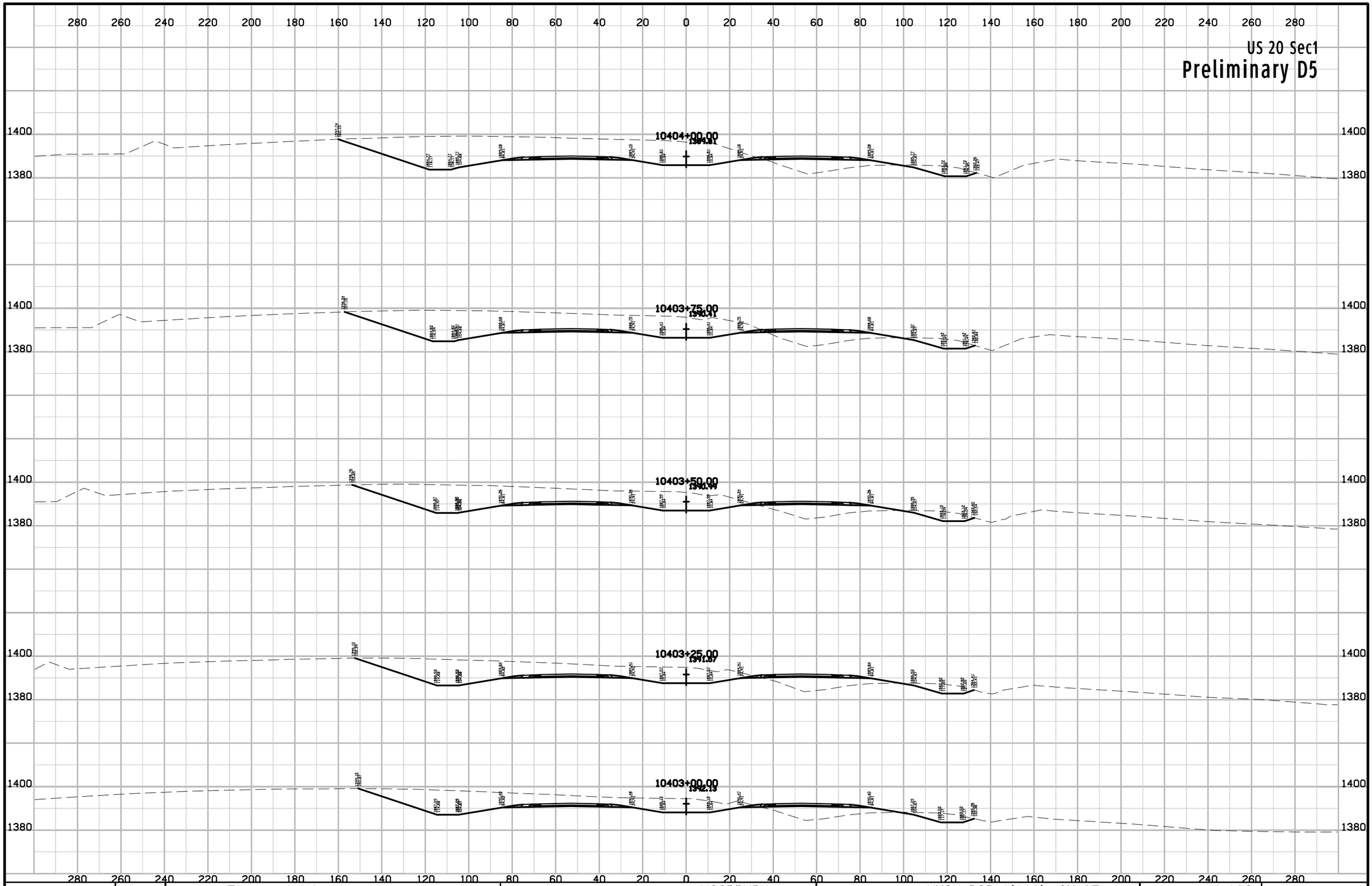
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.162

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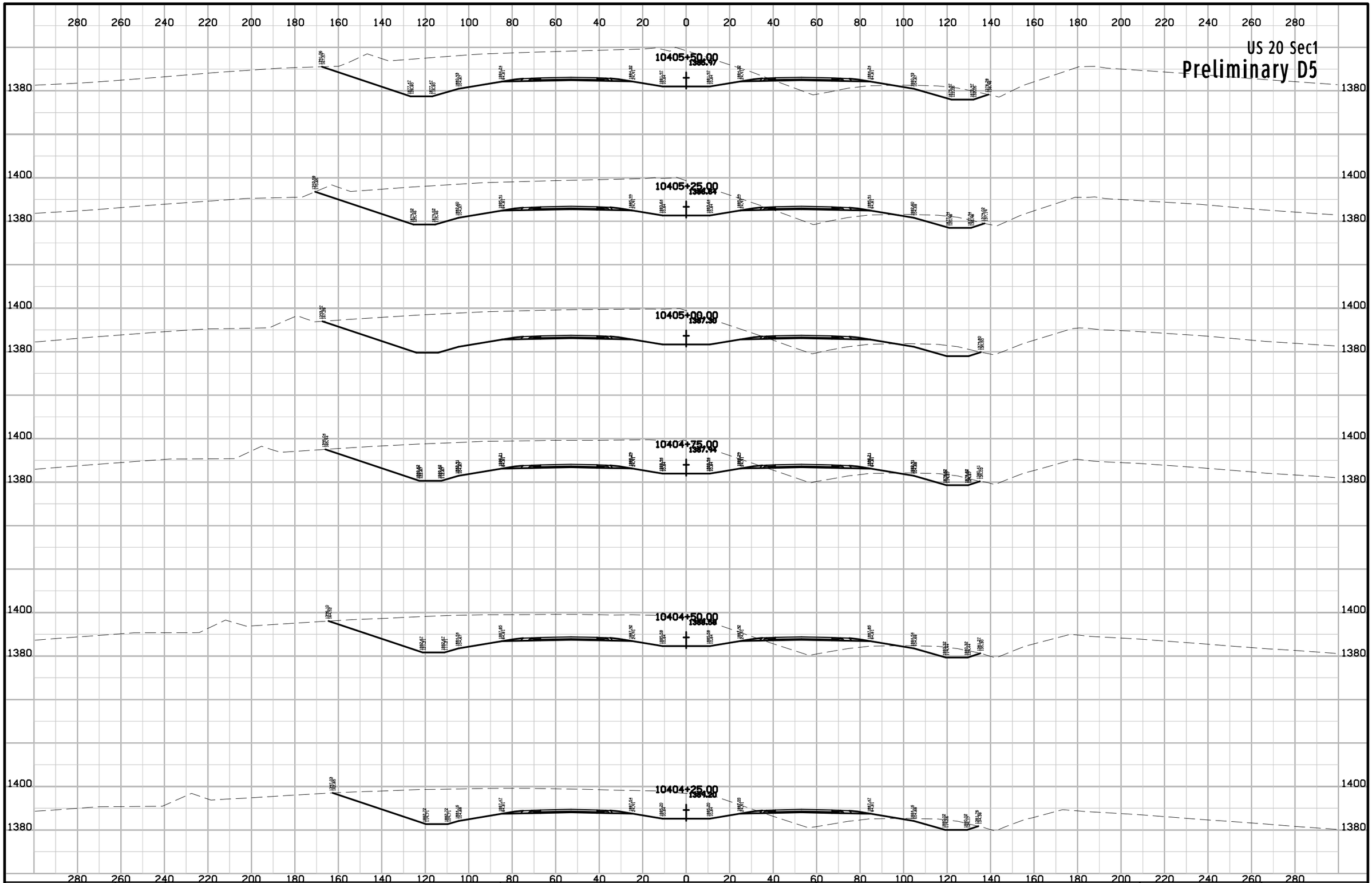

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.163

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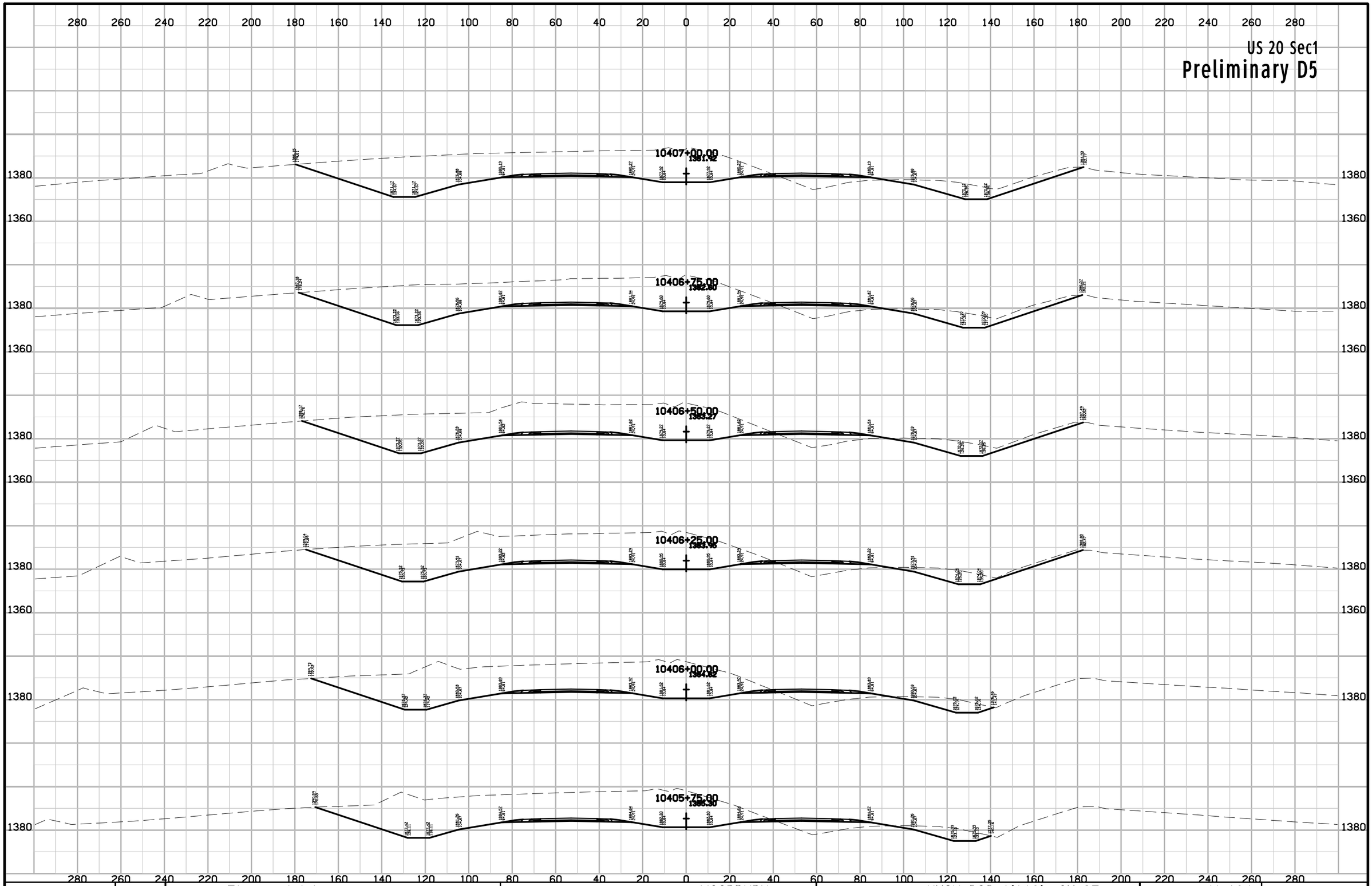
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.164

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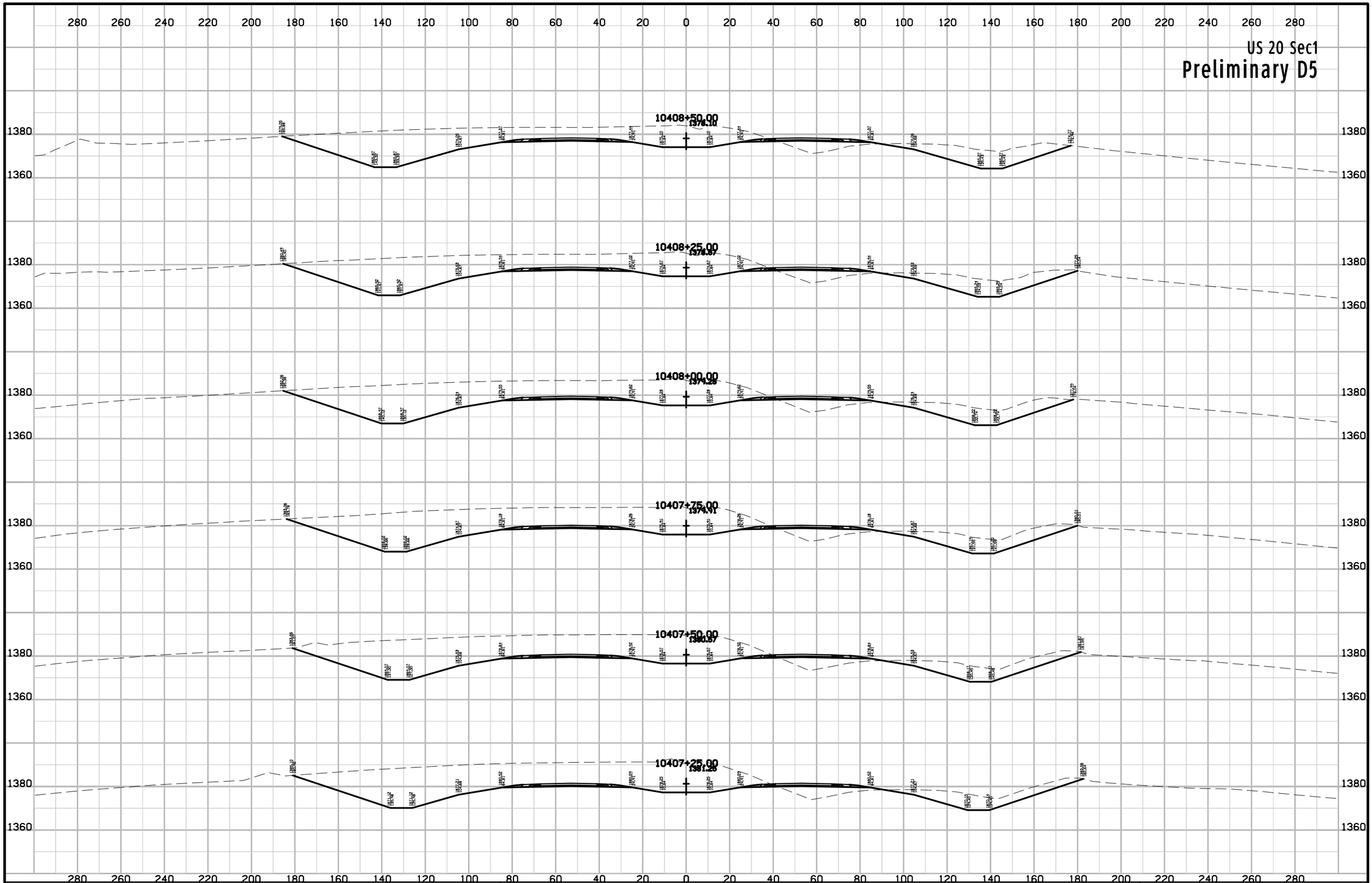
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.165

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1380
1360

10410+00.00
1376.21

10409+75.00
1376.02

10409+50.00
1376.08

10409+25.00
1376.33

10409+00.00
1377.02

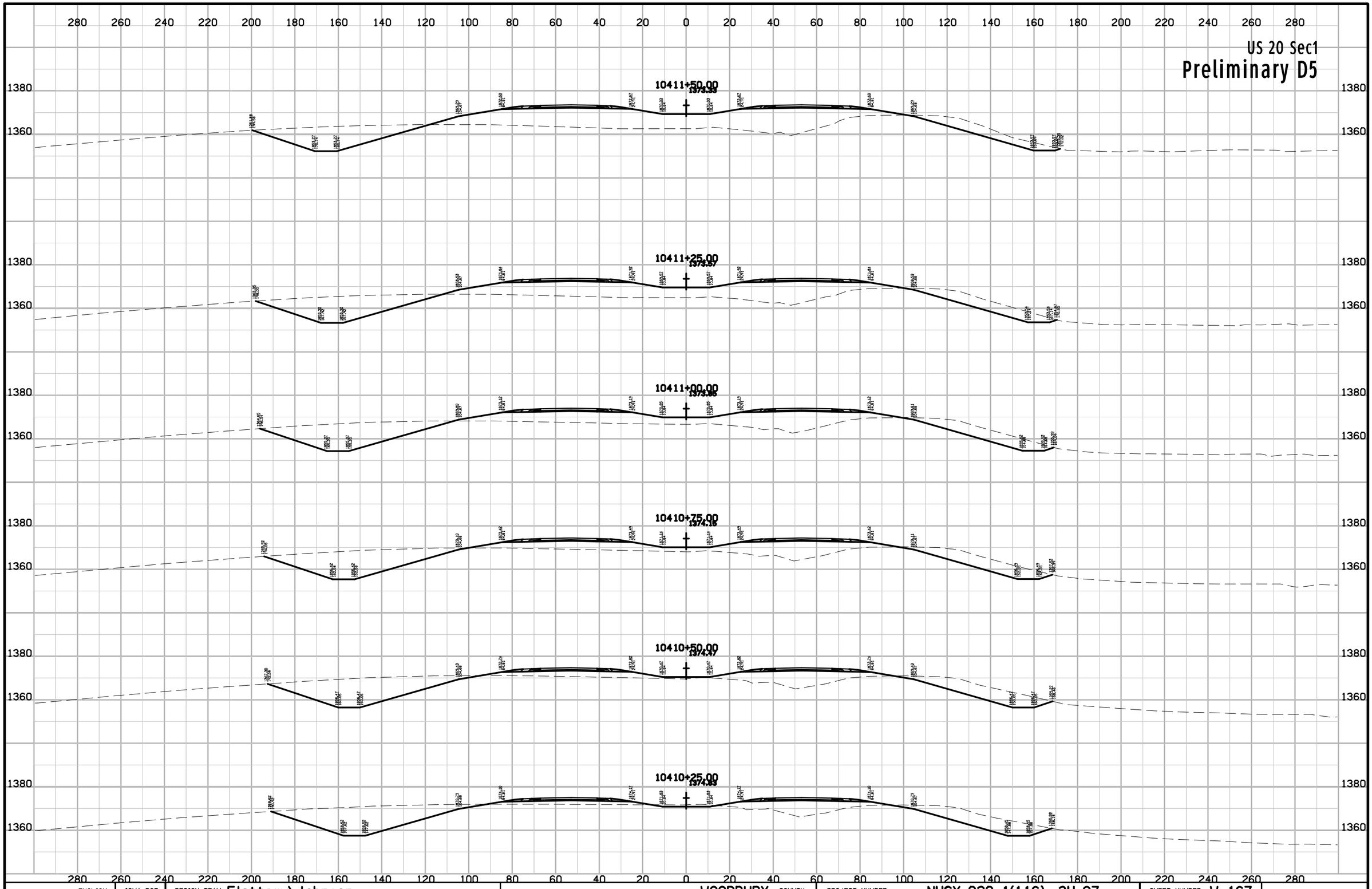
10408+75.00
1377.38

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.166

10:01:30 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.167

10:01:30 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1380
1360

10412+75.00
1372.52

10412+50.00
1372.33

10412+25.00
1372.78

10412+00.00
1372.12

10411+75.00
1373.11

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.168

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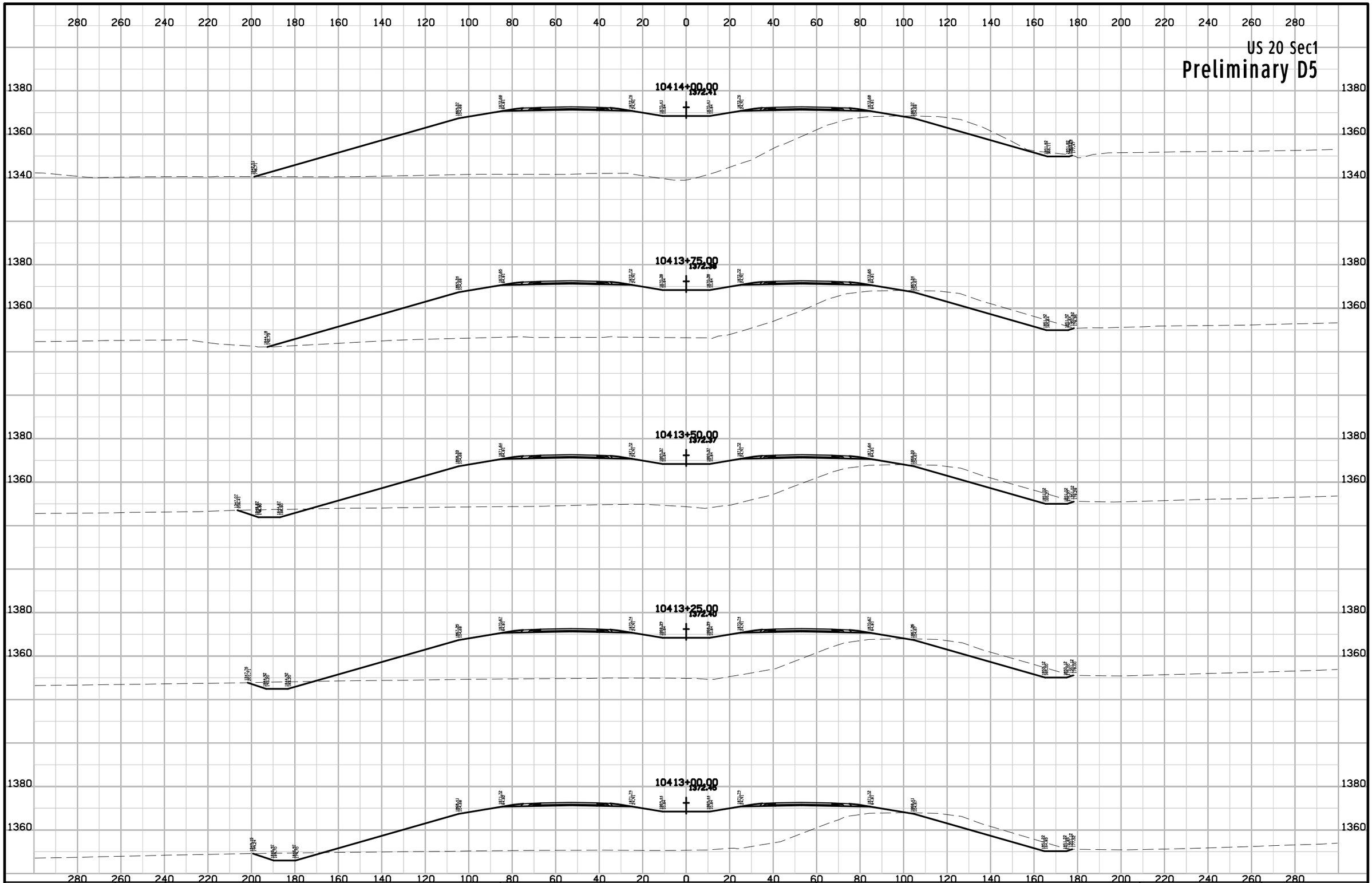
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.169

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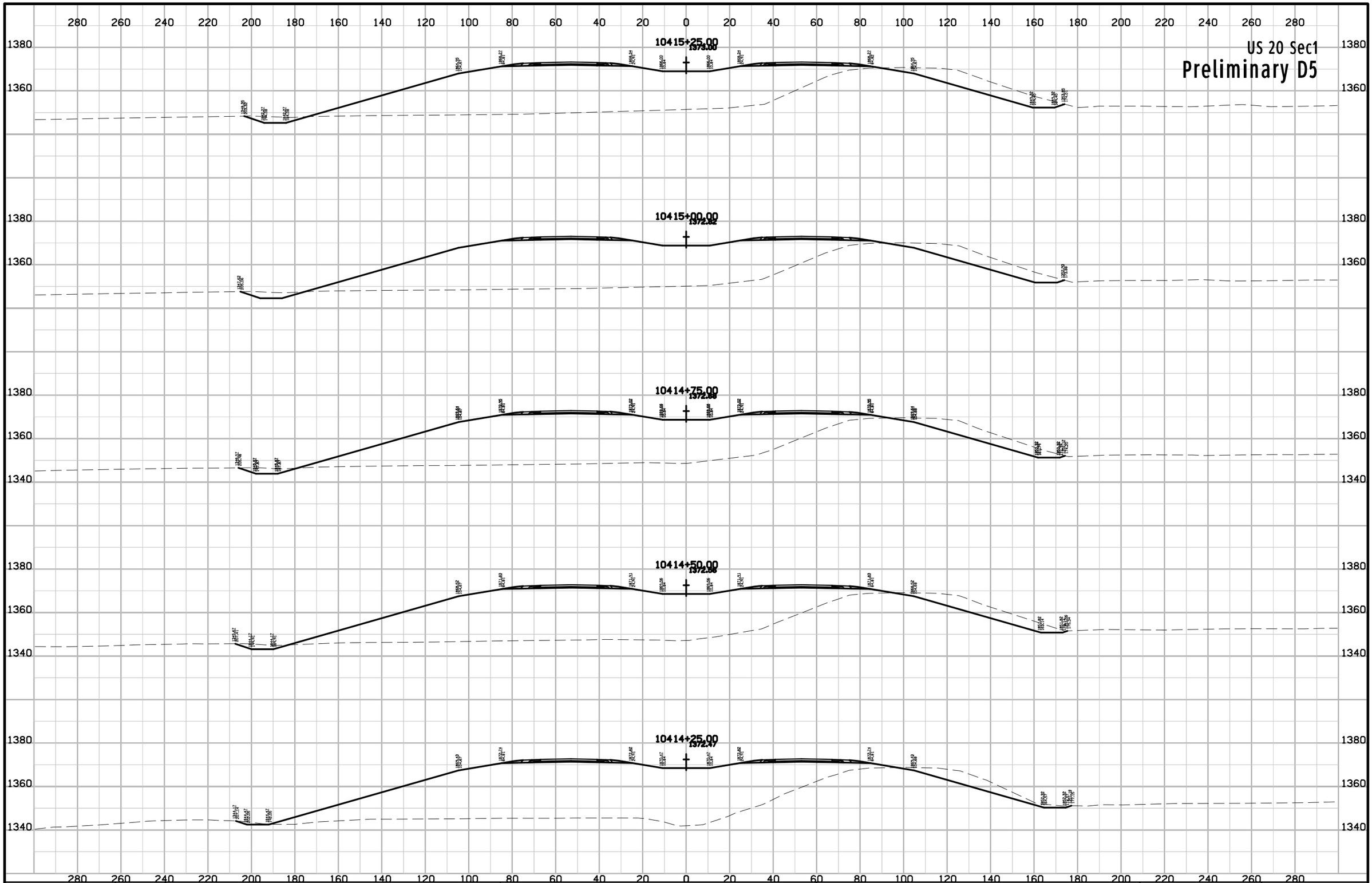
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.170

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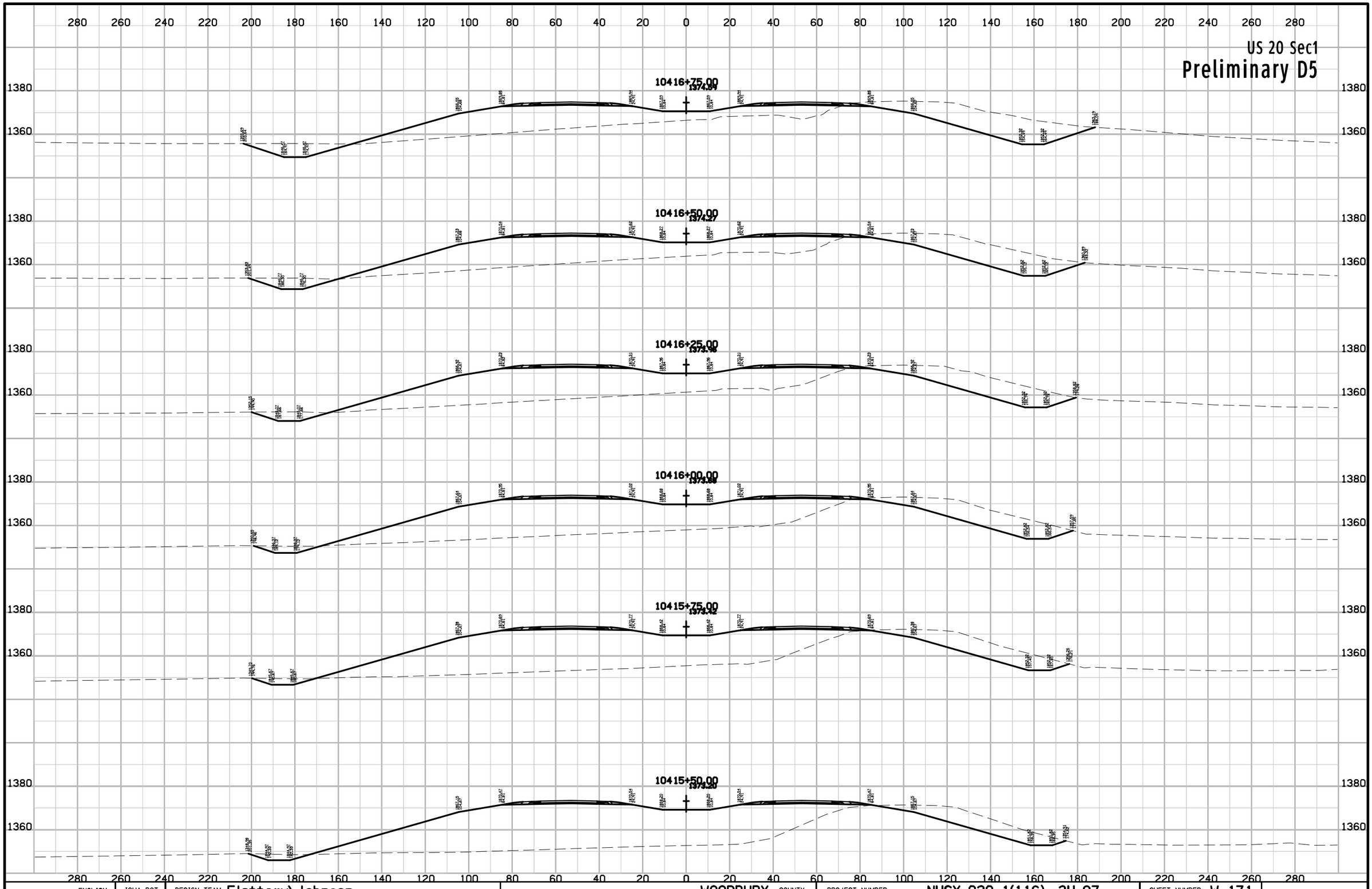
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.171

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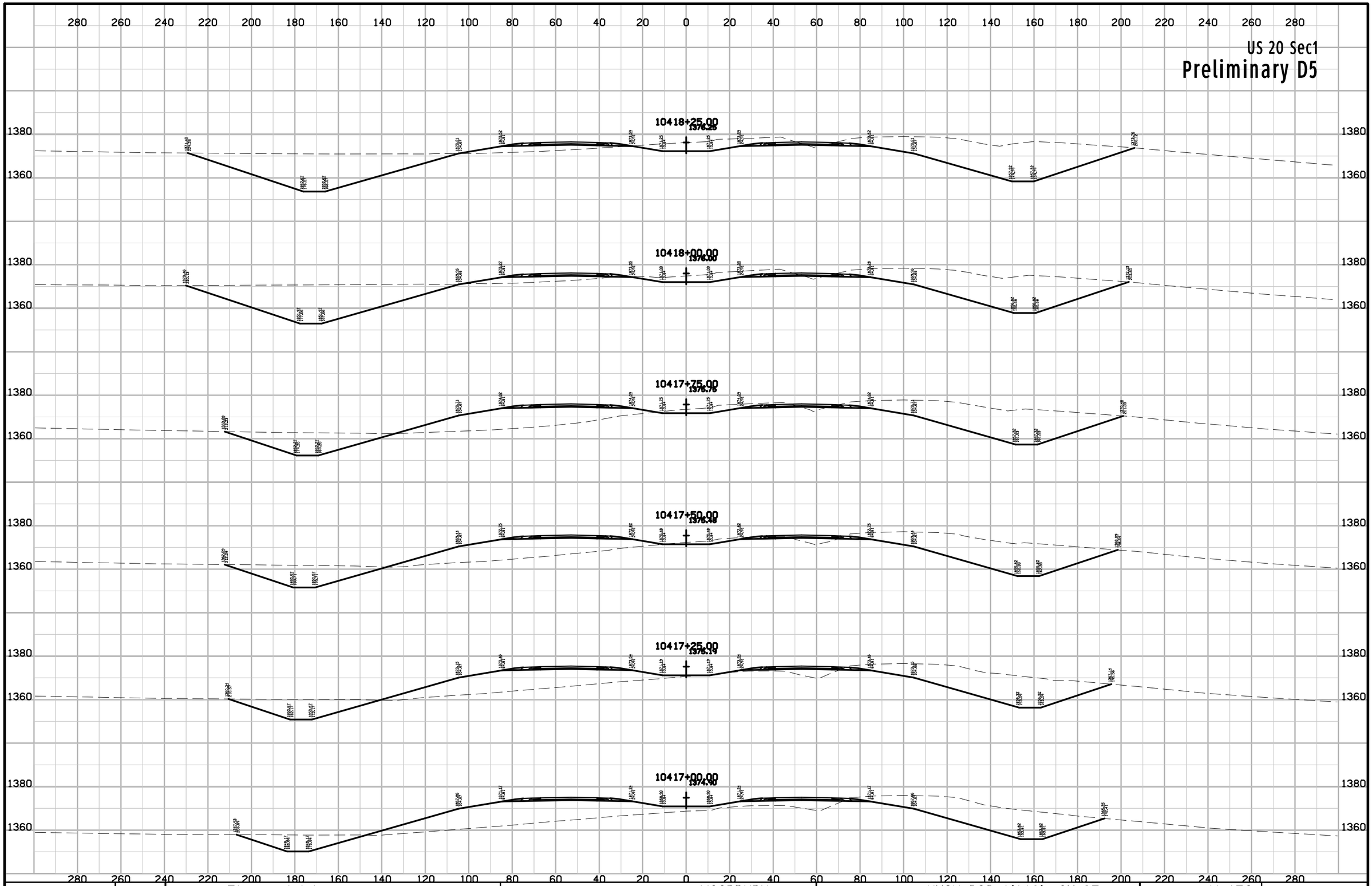
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.172

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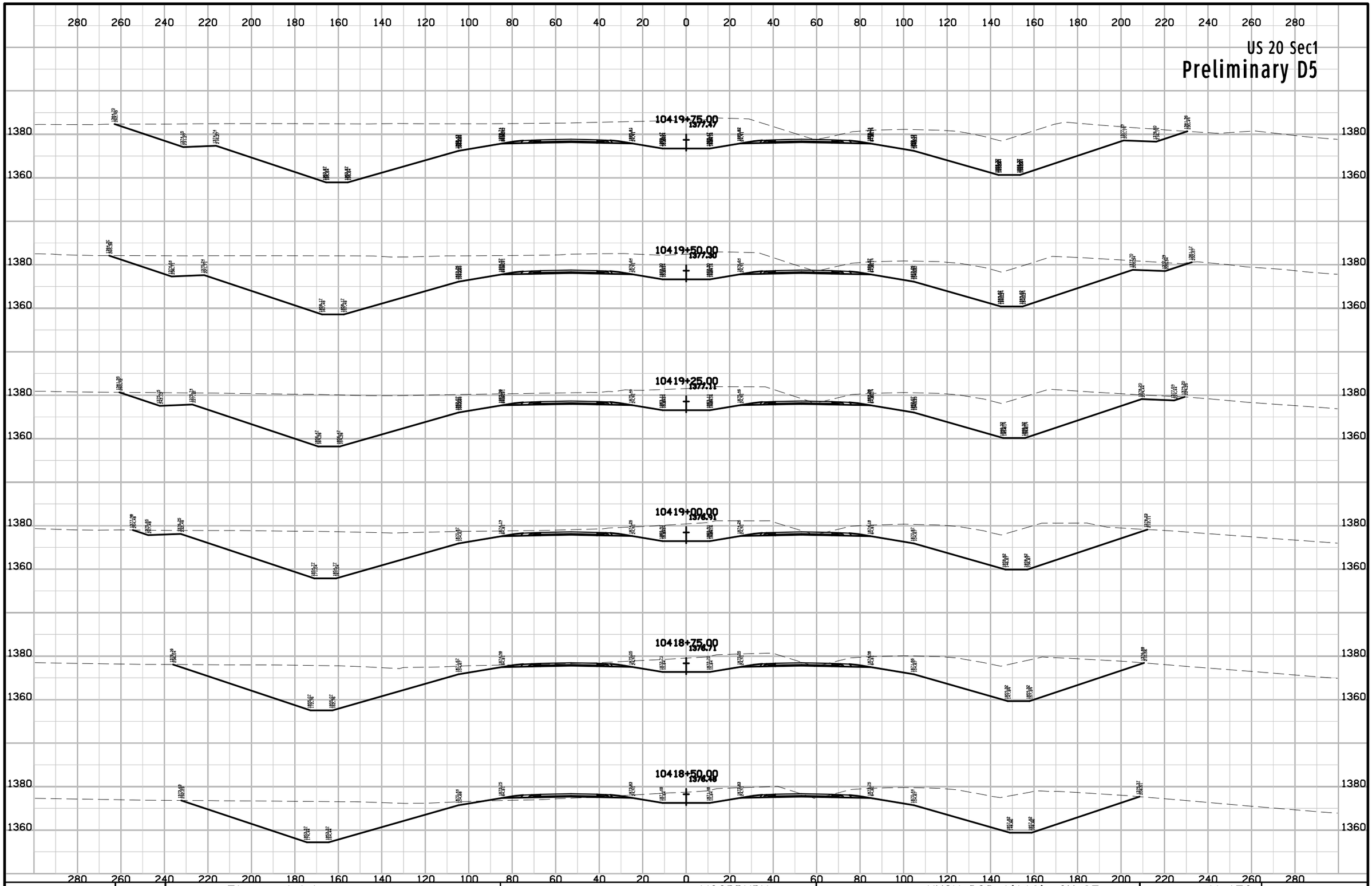
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.173

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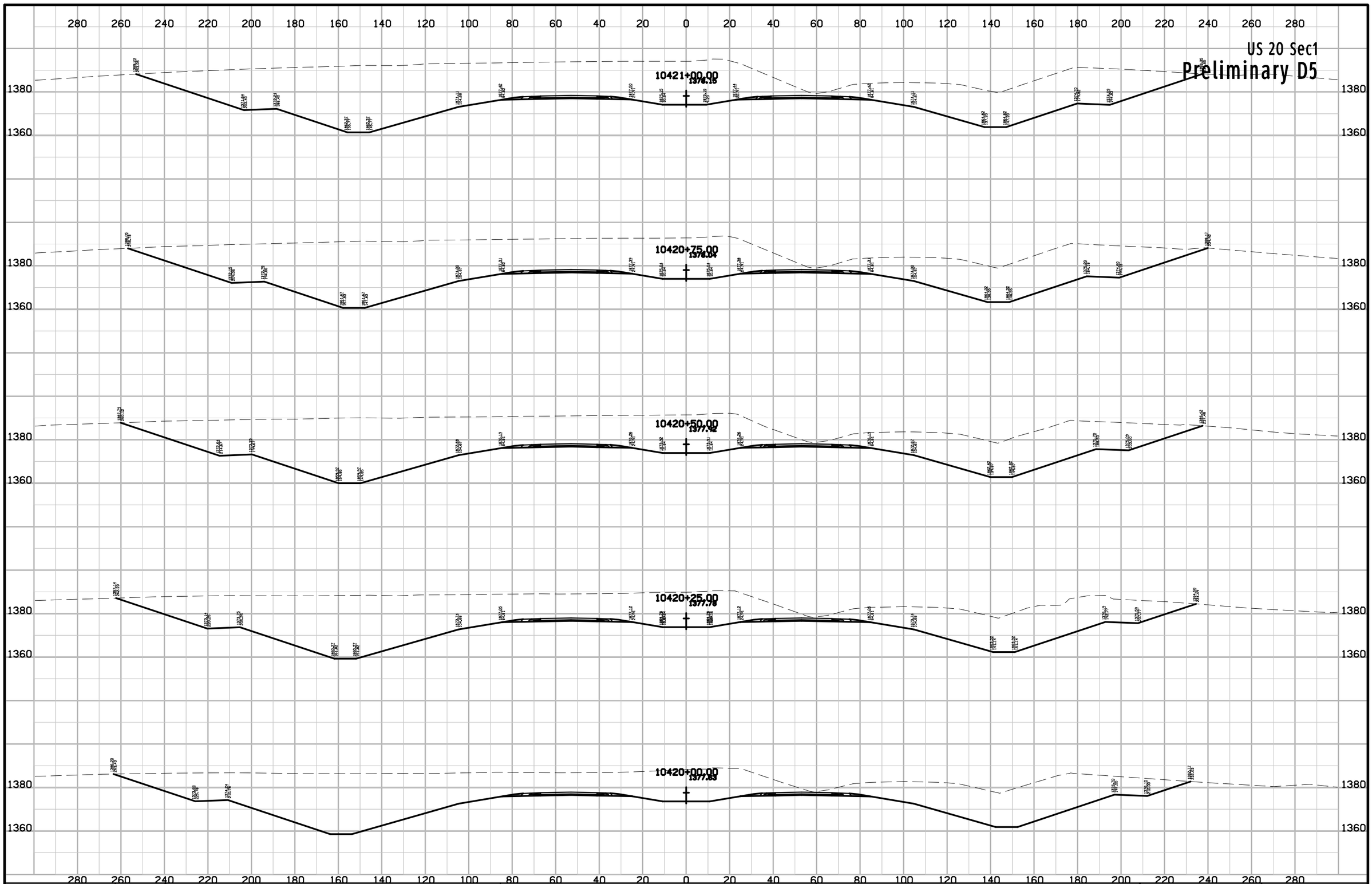
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.174

10:01:35 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D5

10422+25.00
1376.33

10422+00.00
1376.18

10421+75.00
1376.47

10421+50.00
1376.34

10421+25.00
1376.28

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.175

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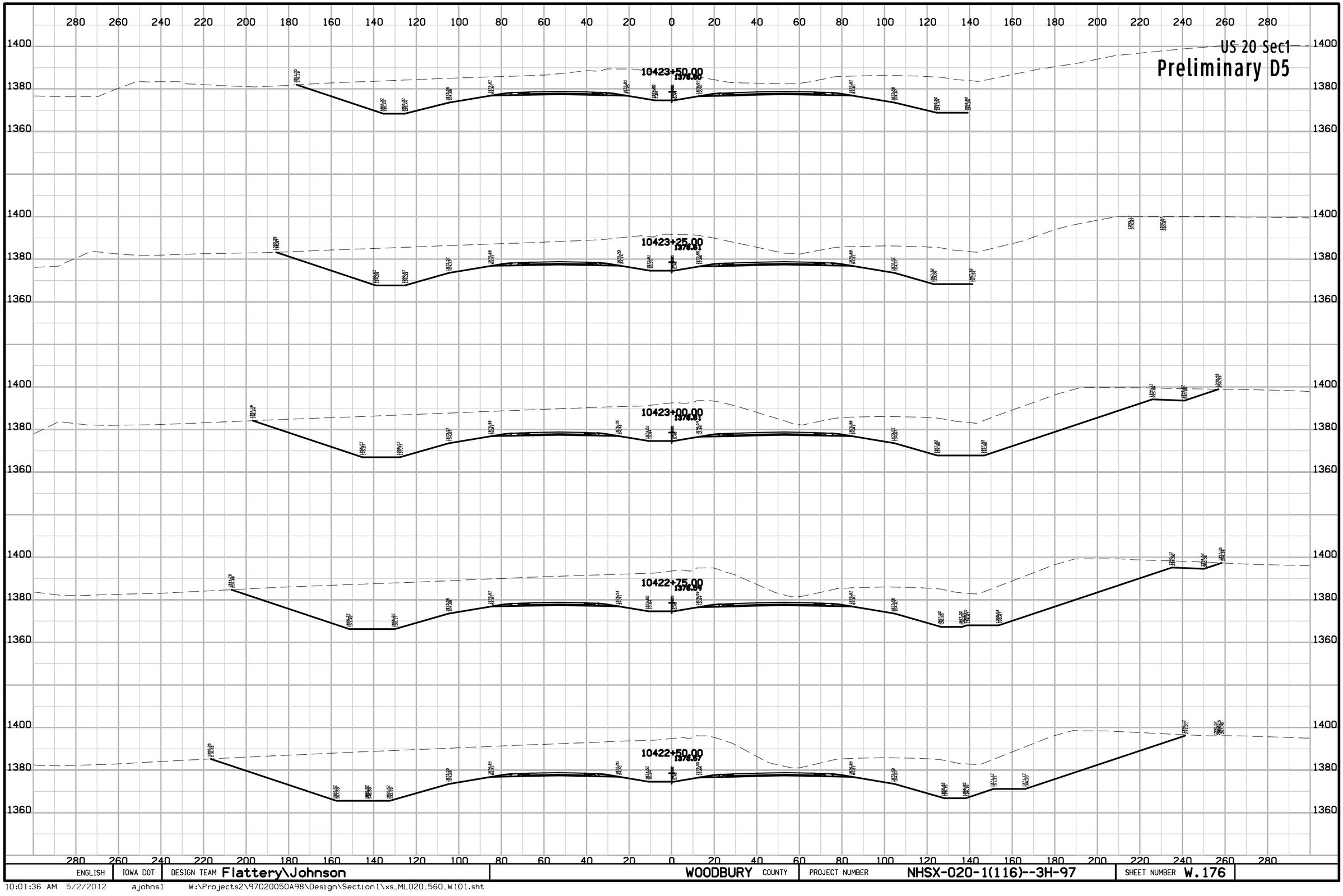
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.176

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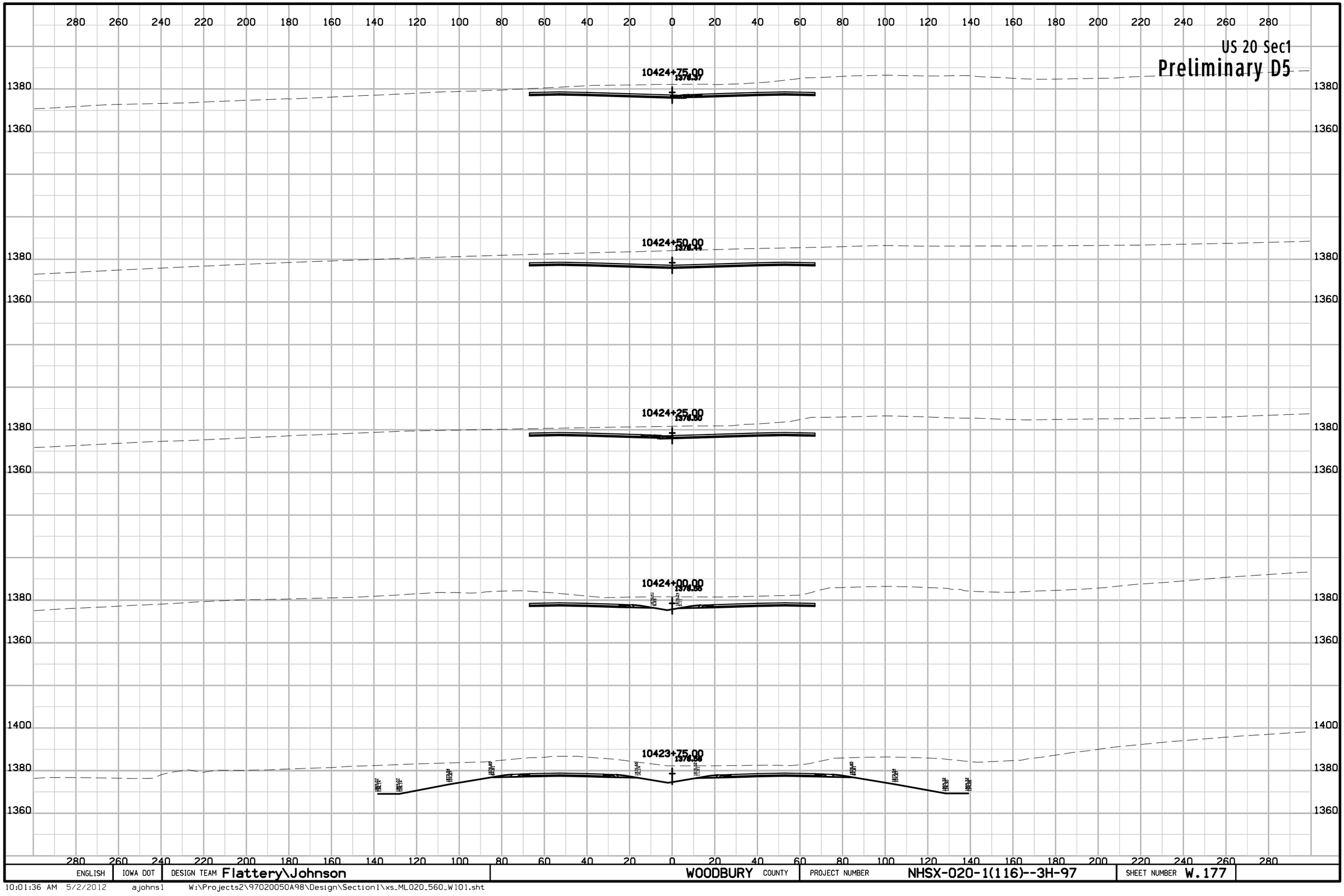
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.177

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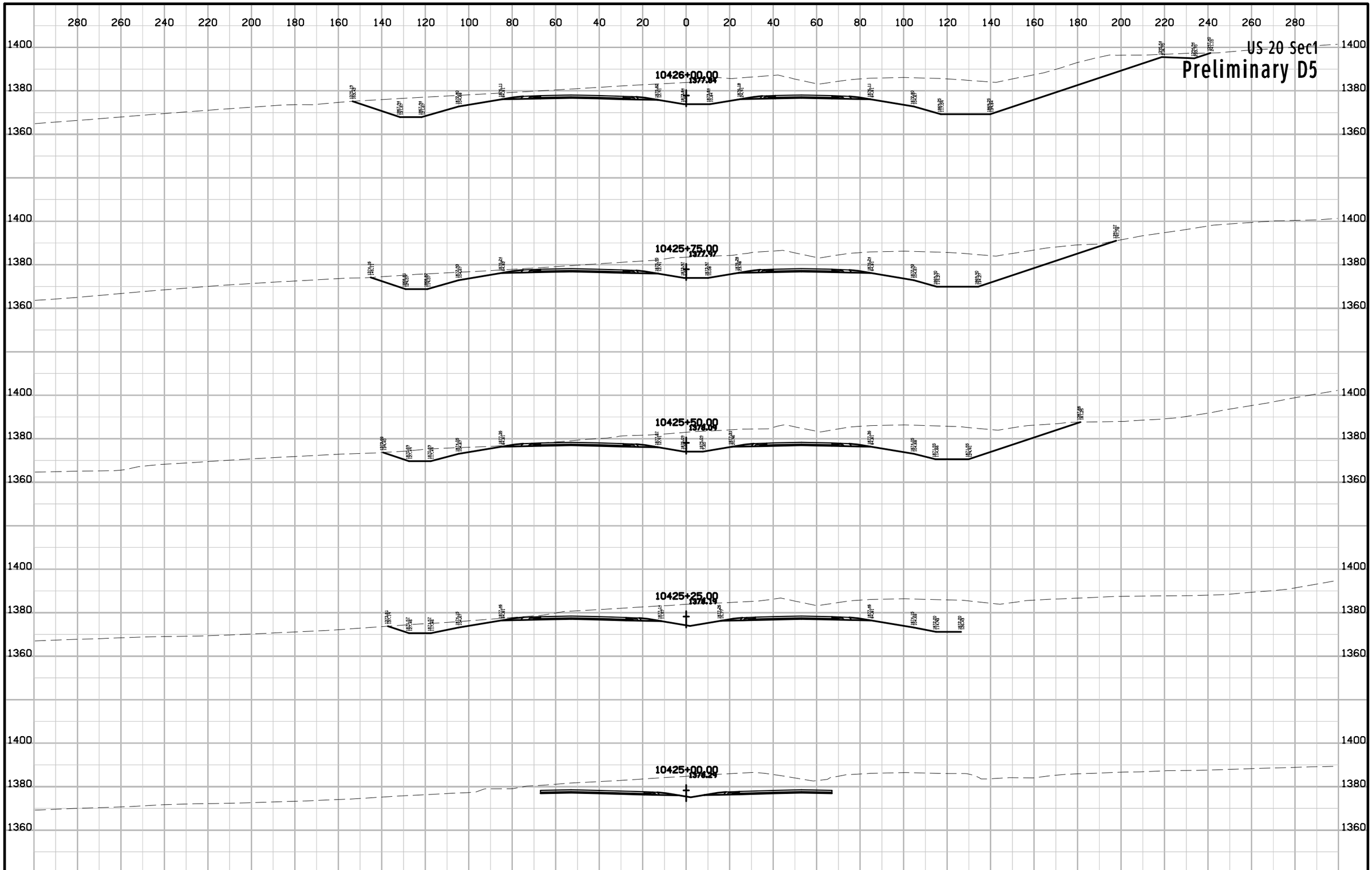
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.178

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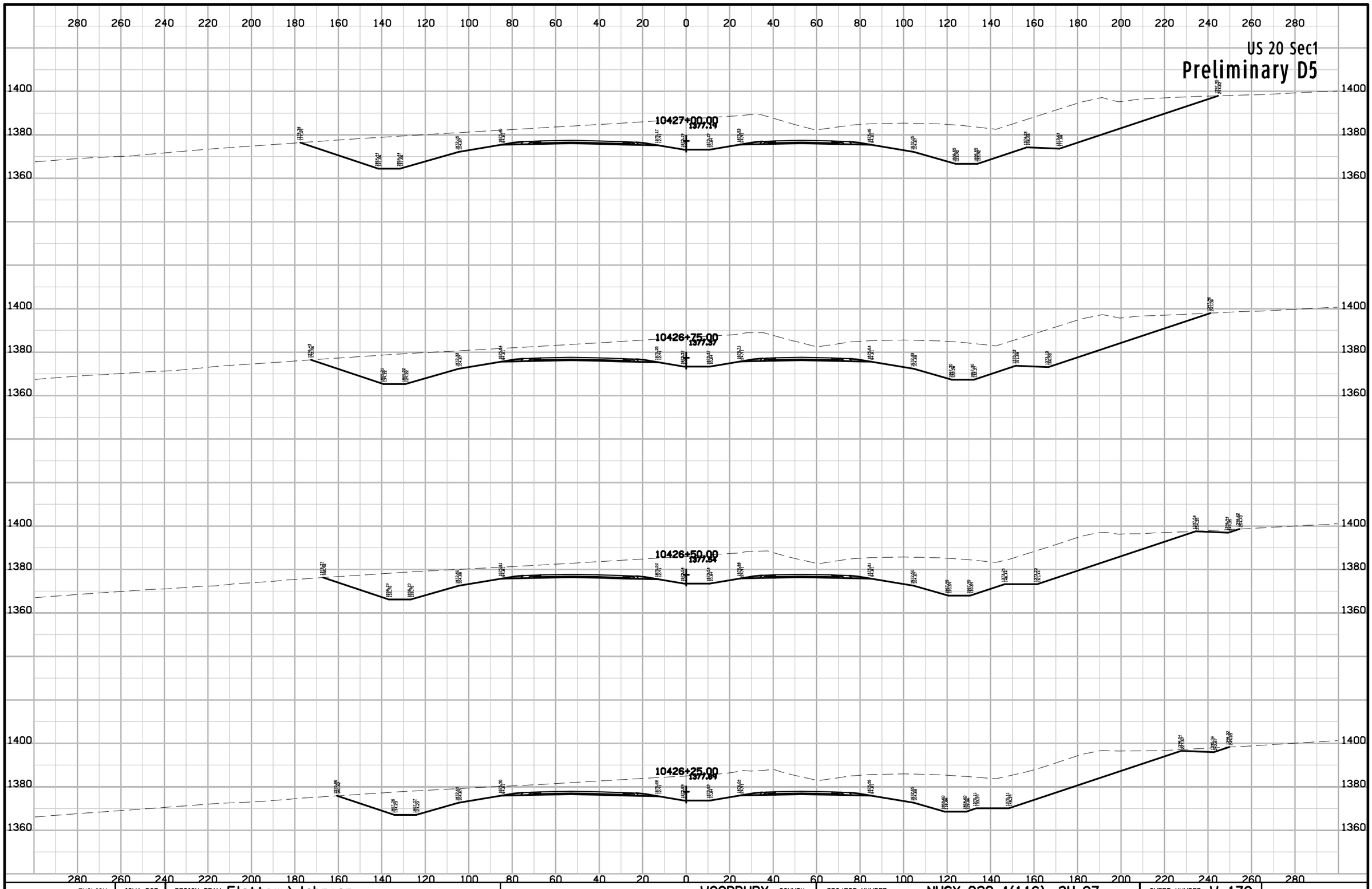
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.179

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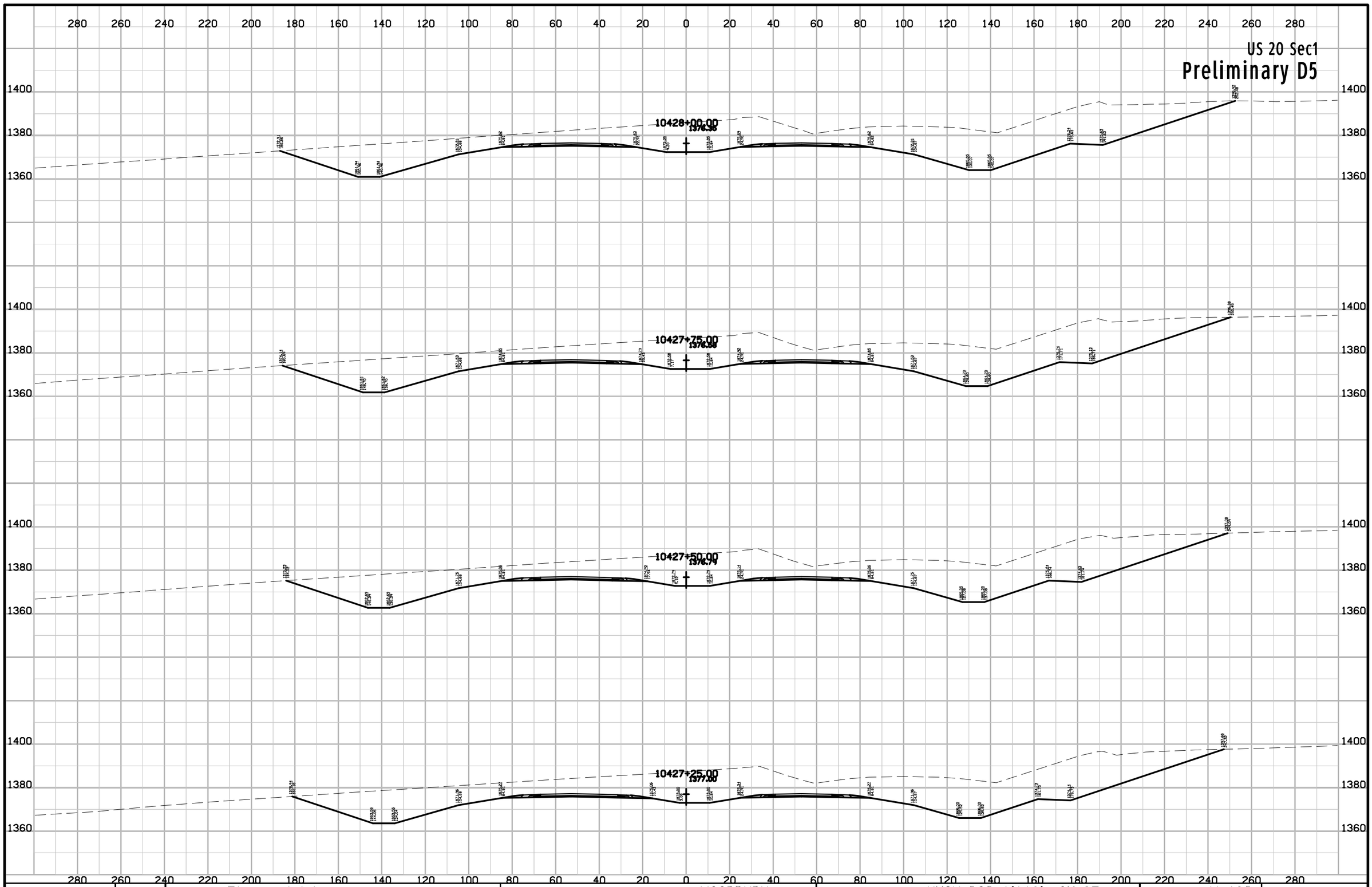
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.180

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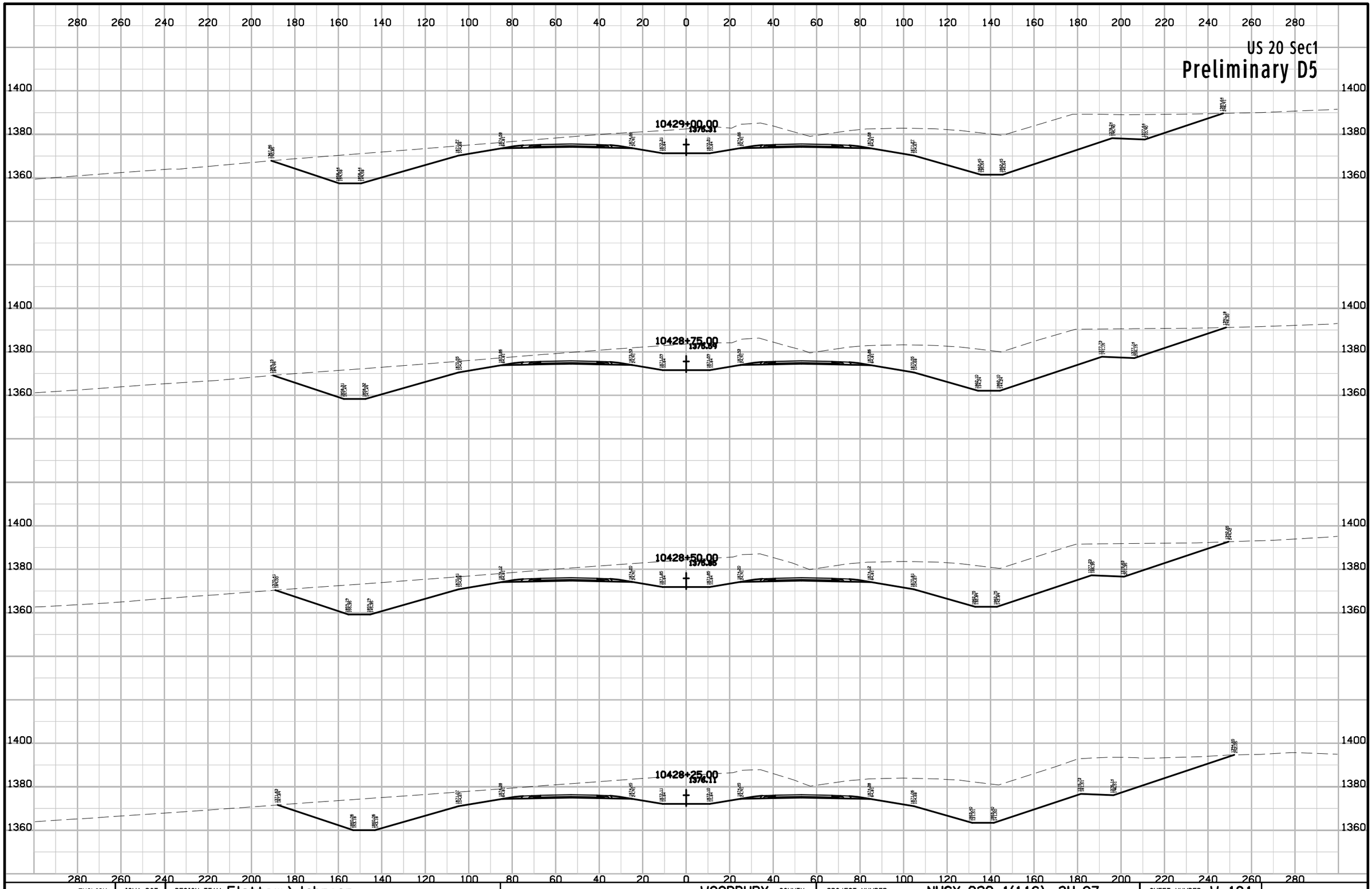
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.181

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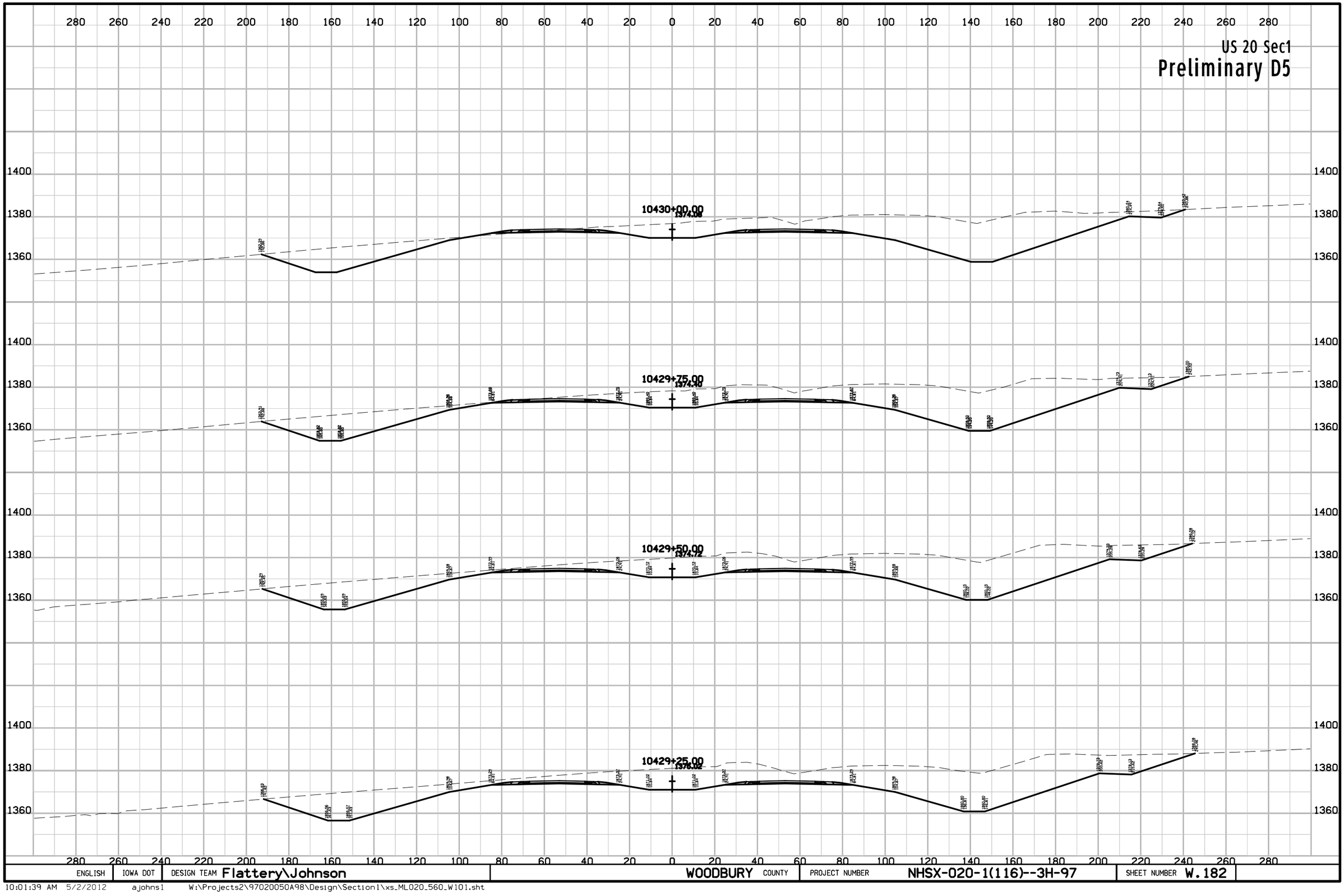
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.182

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1380
1360

10431+25.00
1372.28

10431+00.00
1372.98

10430+75.00
1373.09

10430+50.00
1373.34

10430+25.00
1373.74

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.183

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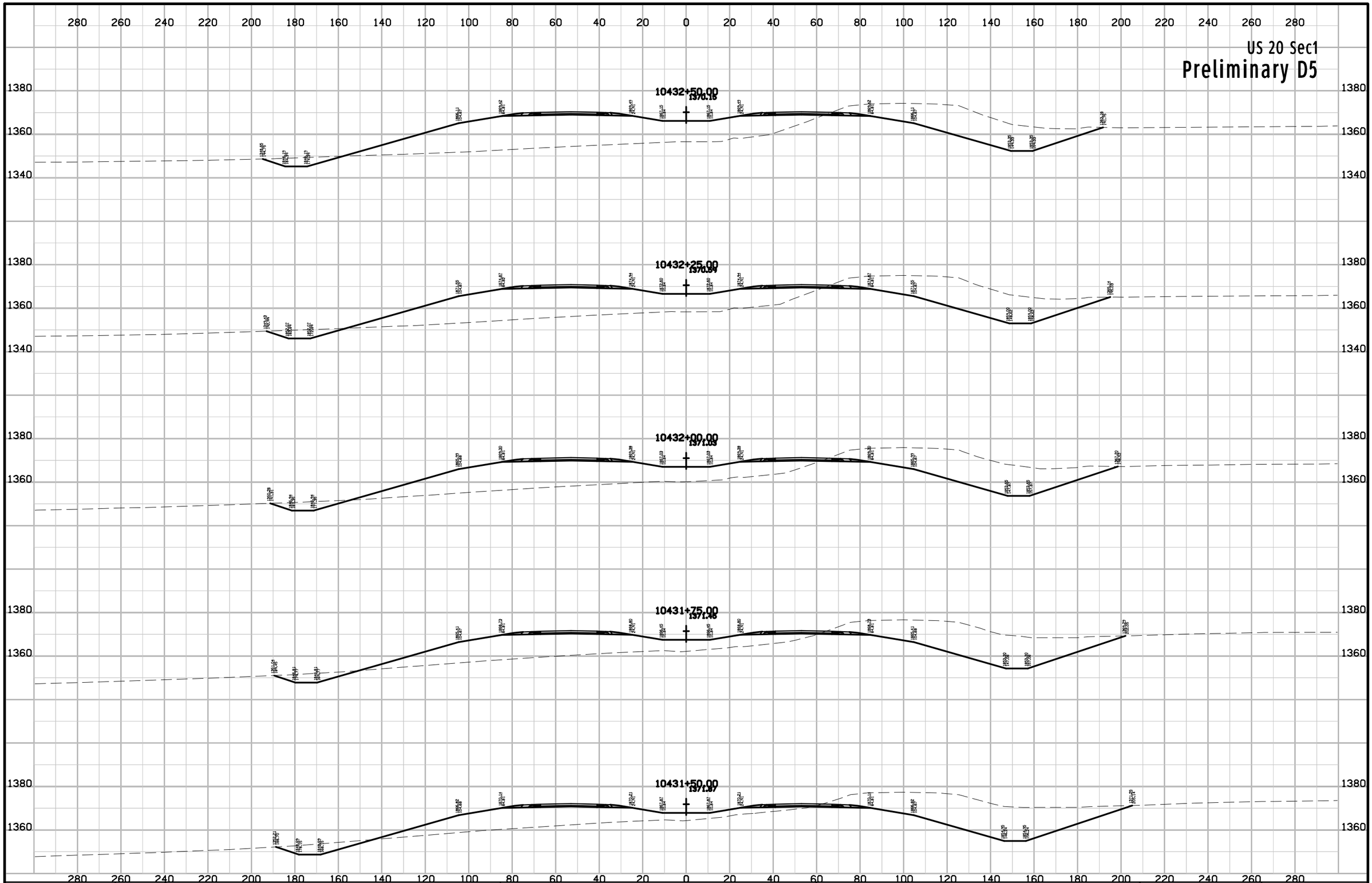
US 20 Sec1

Preliminary D5



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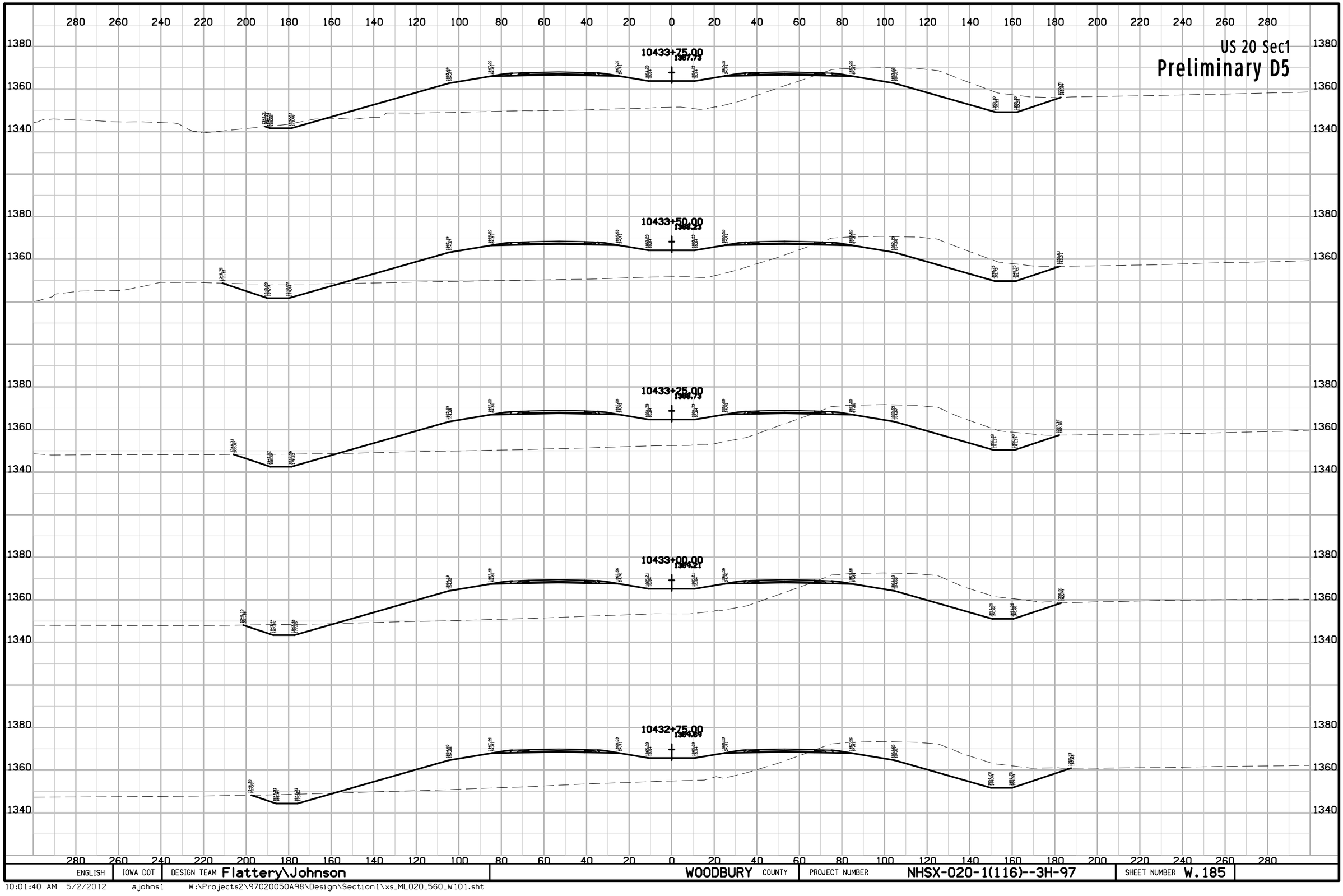
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.185

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1380
1360
1340

10434+75.00
1366.57

10434+50.00
1366.13

10434+25.00
1366.97

10434+00.00
1367.20

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.186

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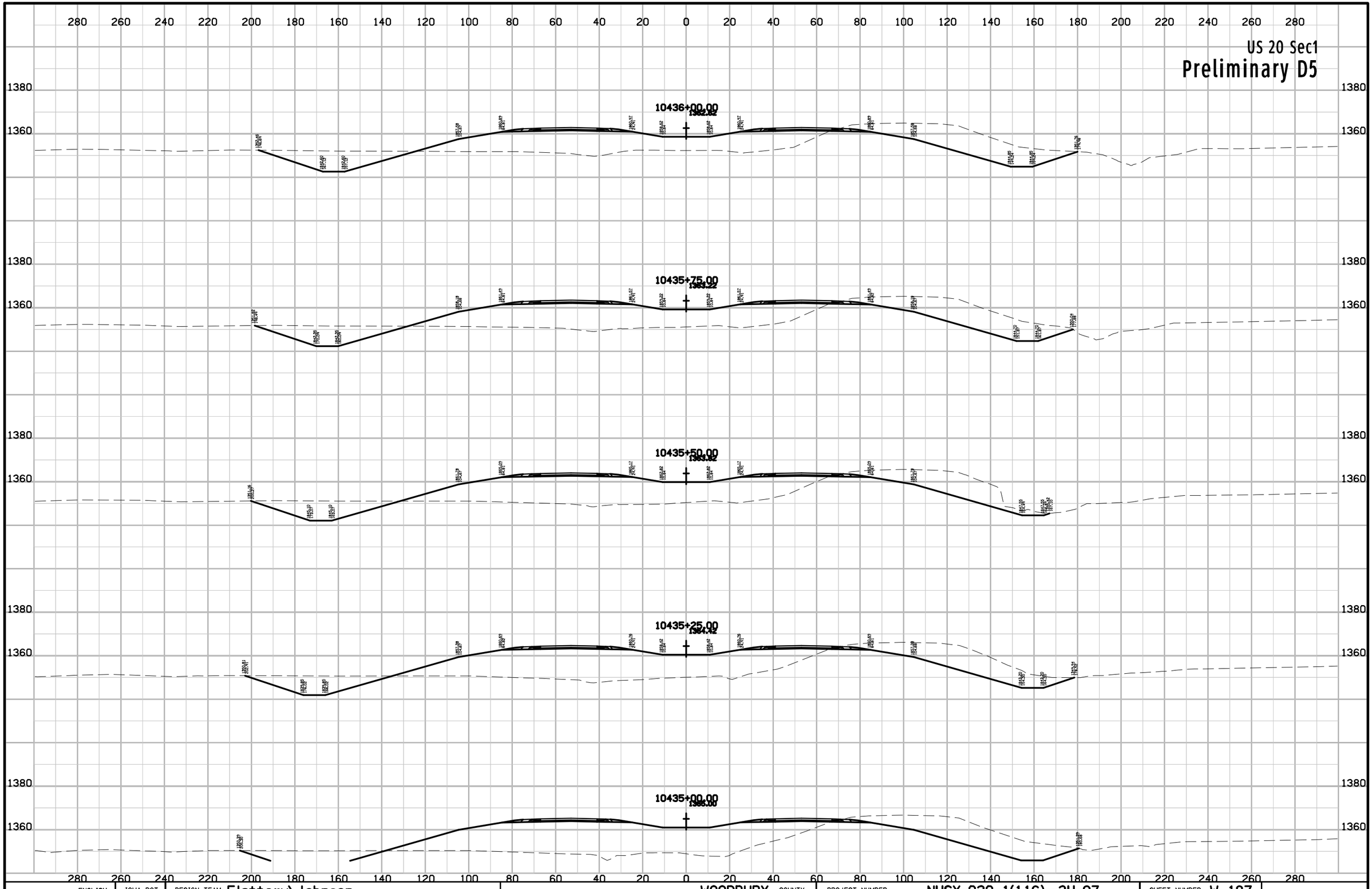
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.187

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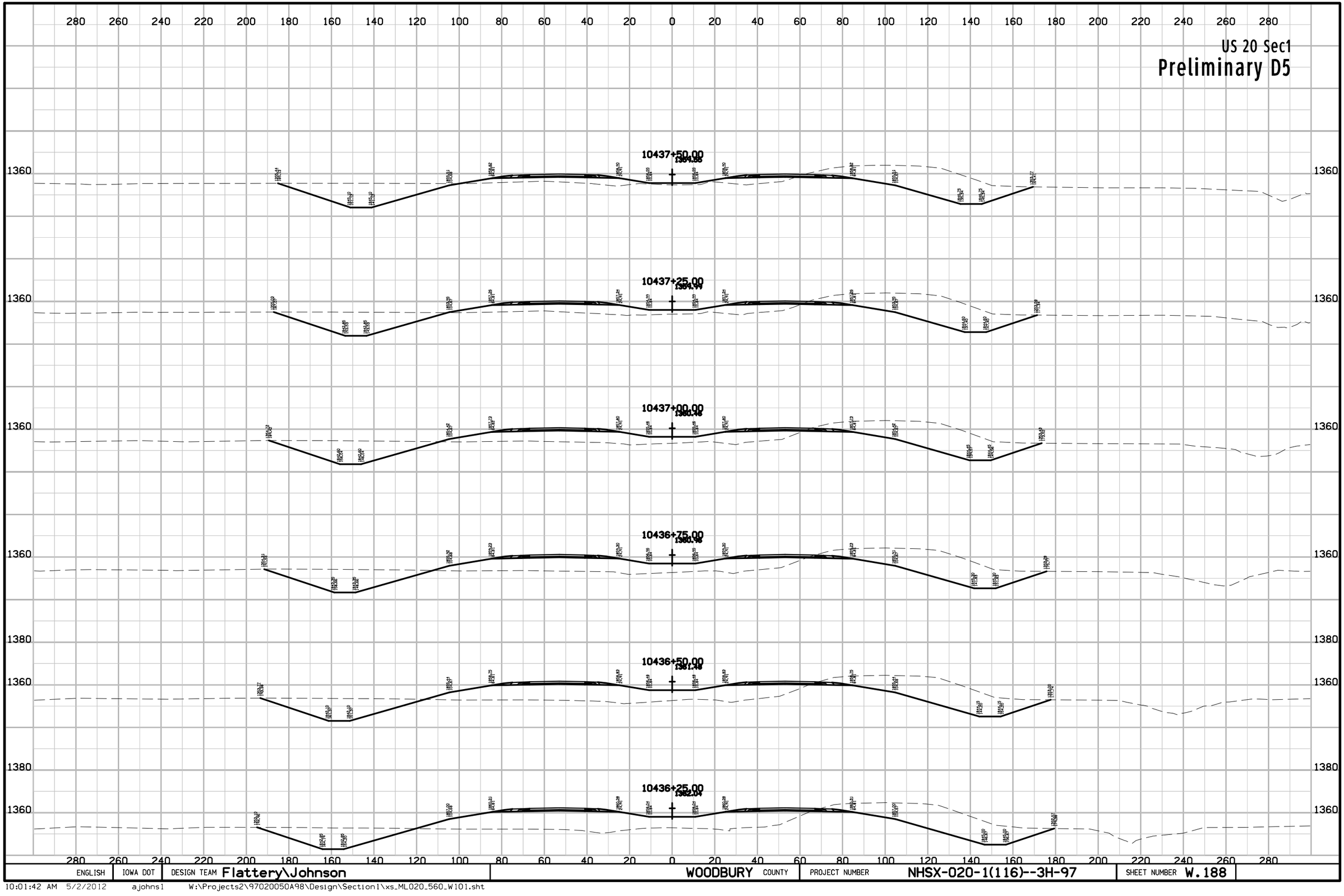
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.188

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

10439+00.00
1367.24

10438+75.00
1367.80

10438+50.00
1368.04

10438+25.00
1368.41

10438+00.00
1368.78

10437+75.00
1369.14

1360

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.189

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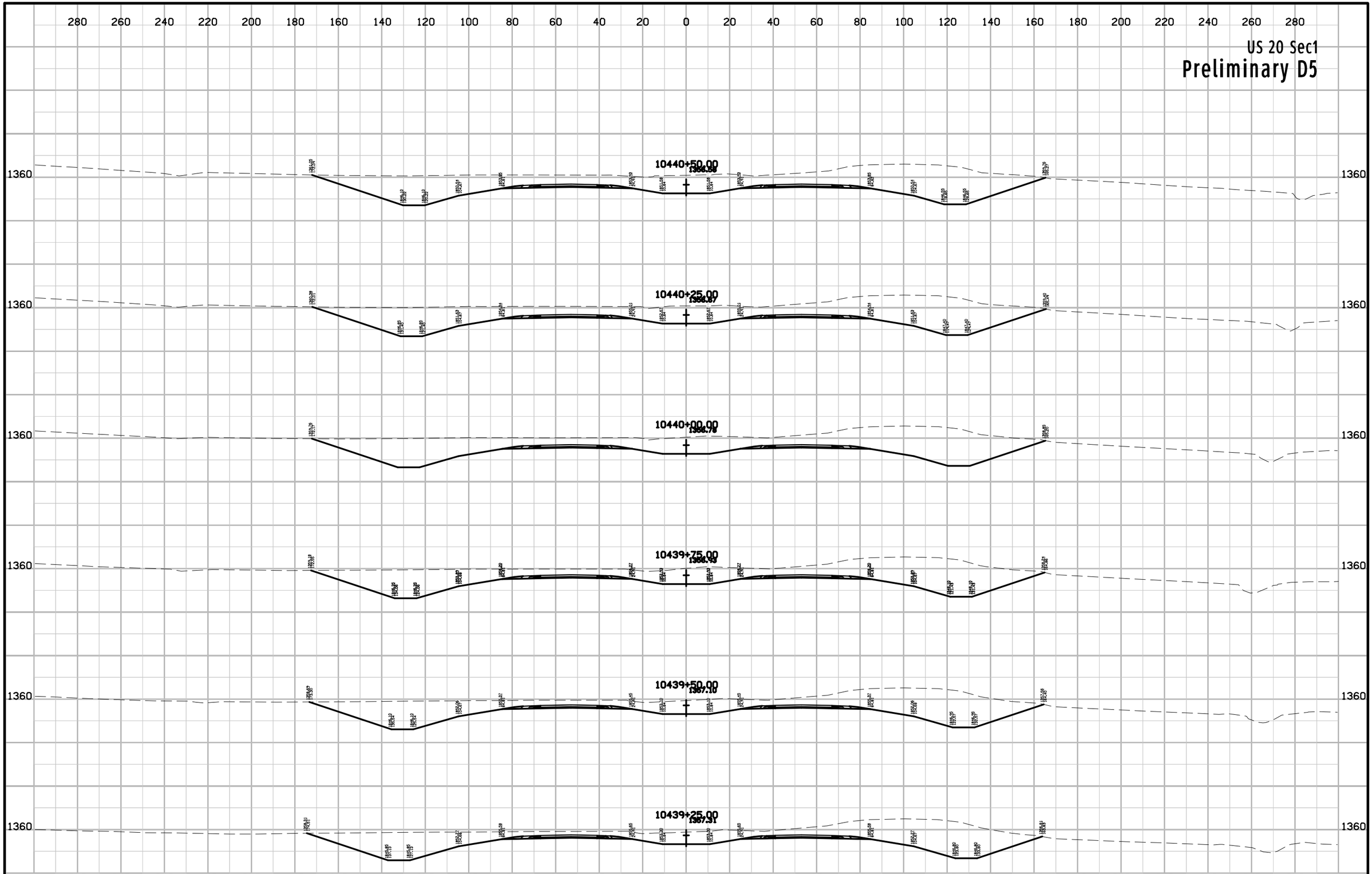
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.190

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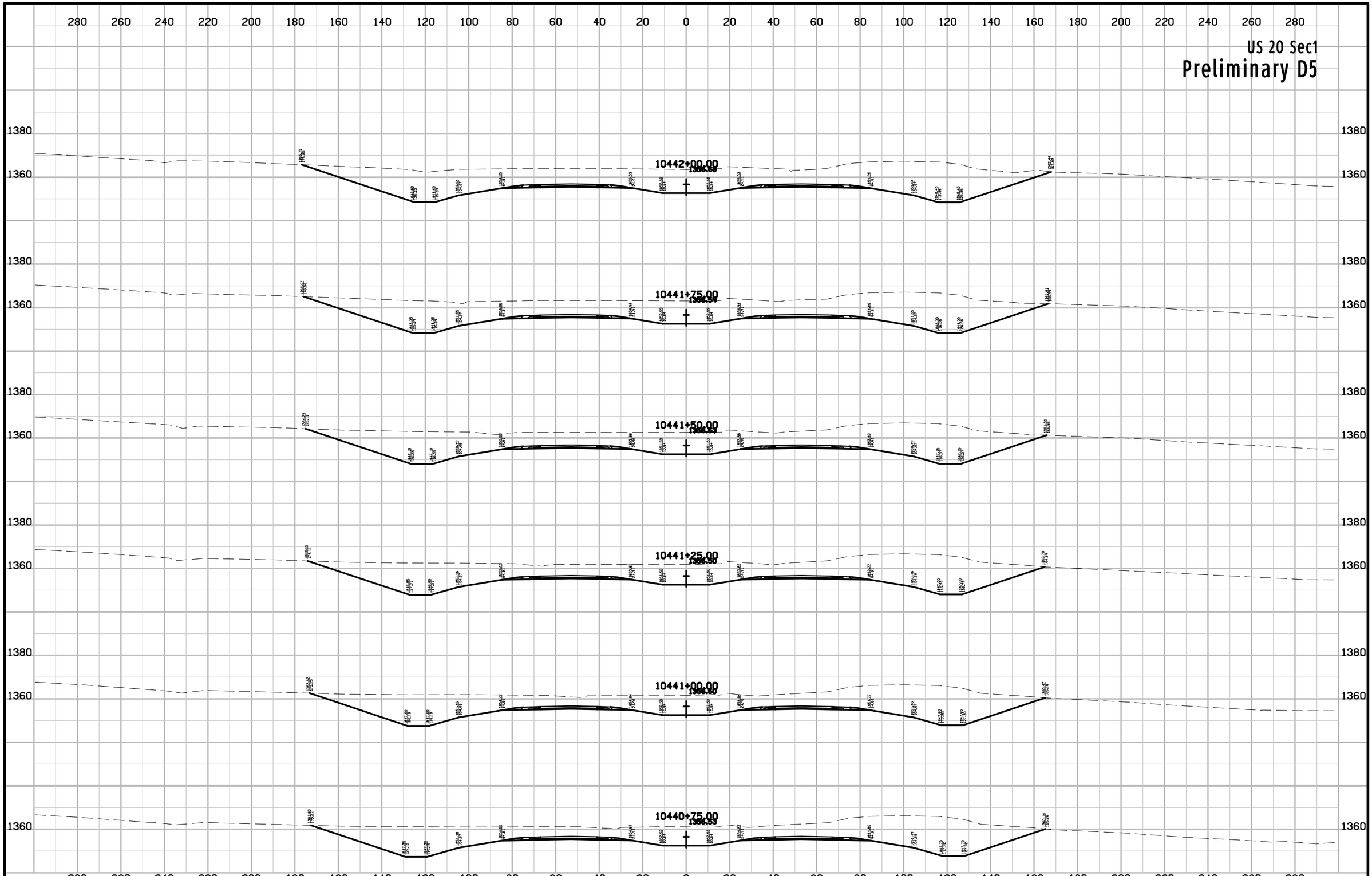
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.191

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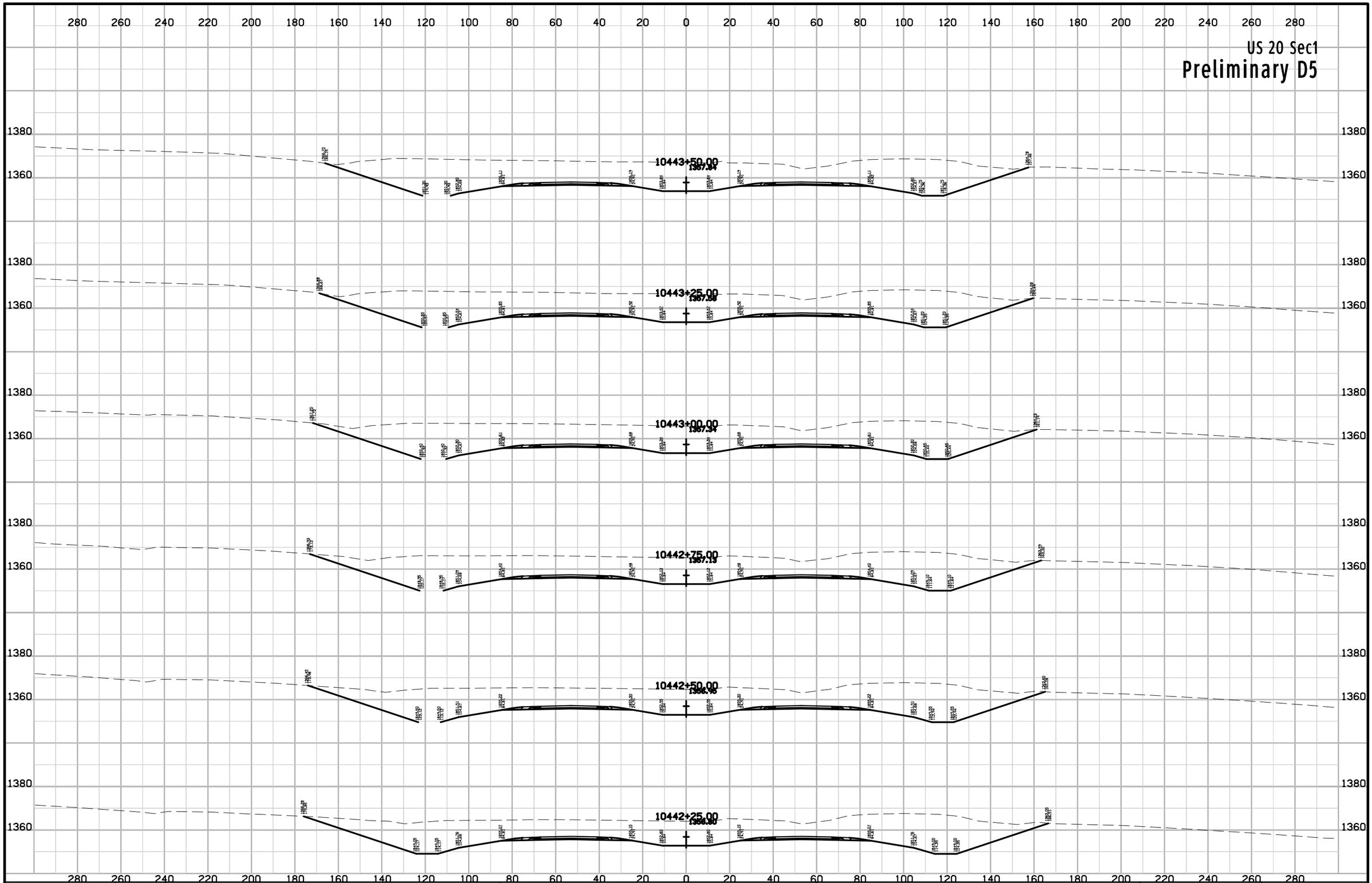
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.192

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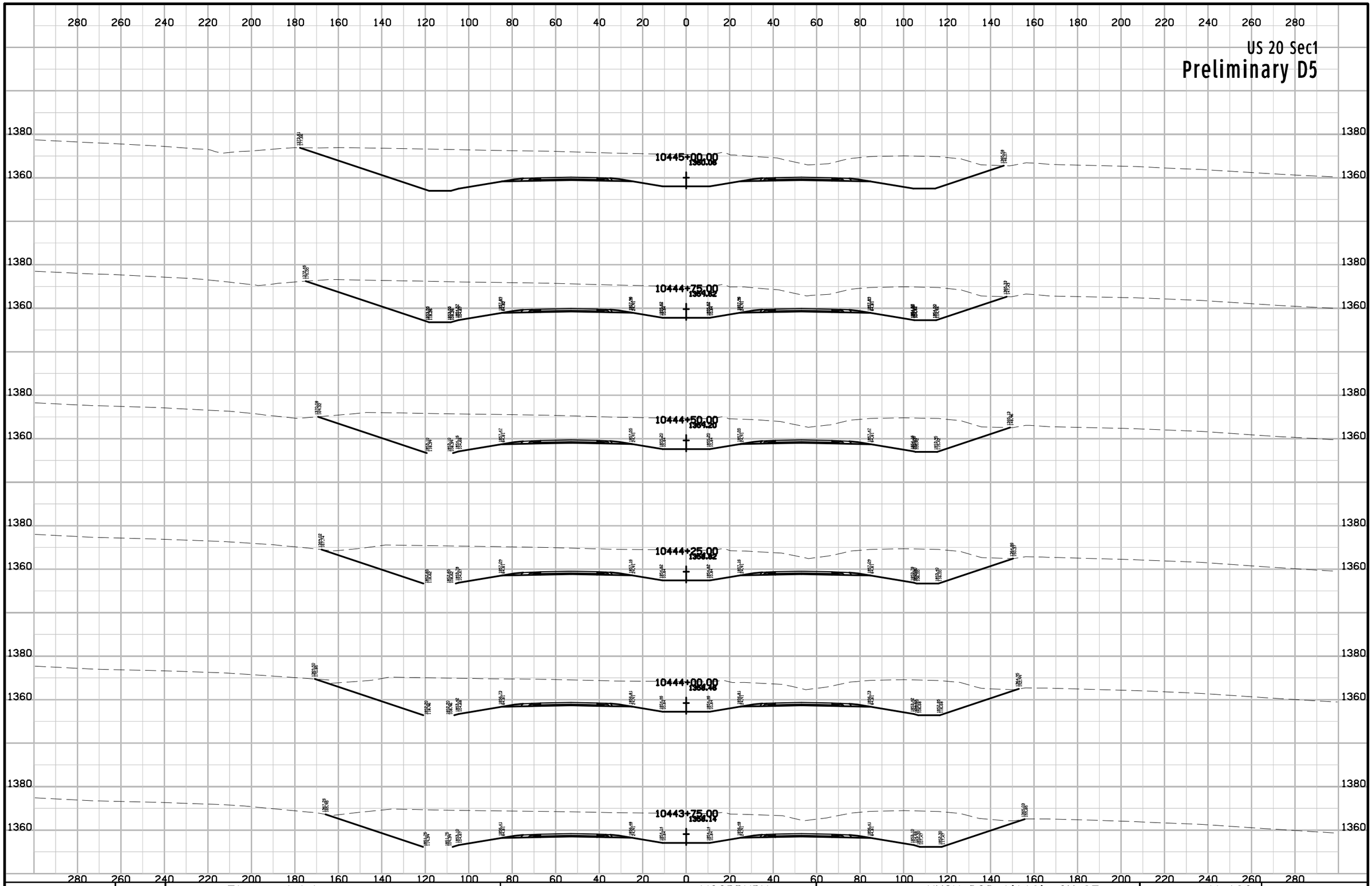
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.193

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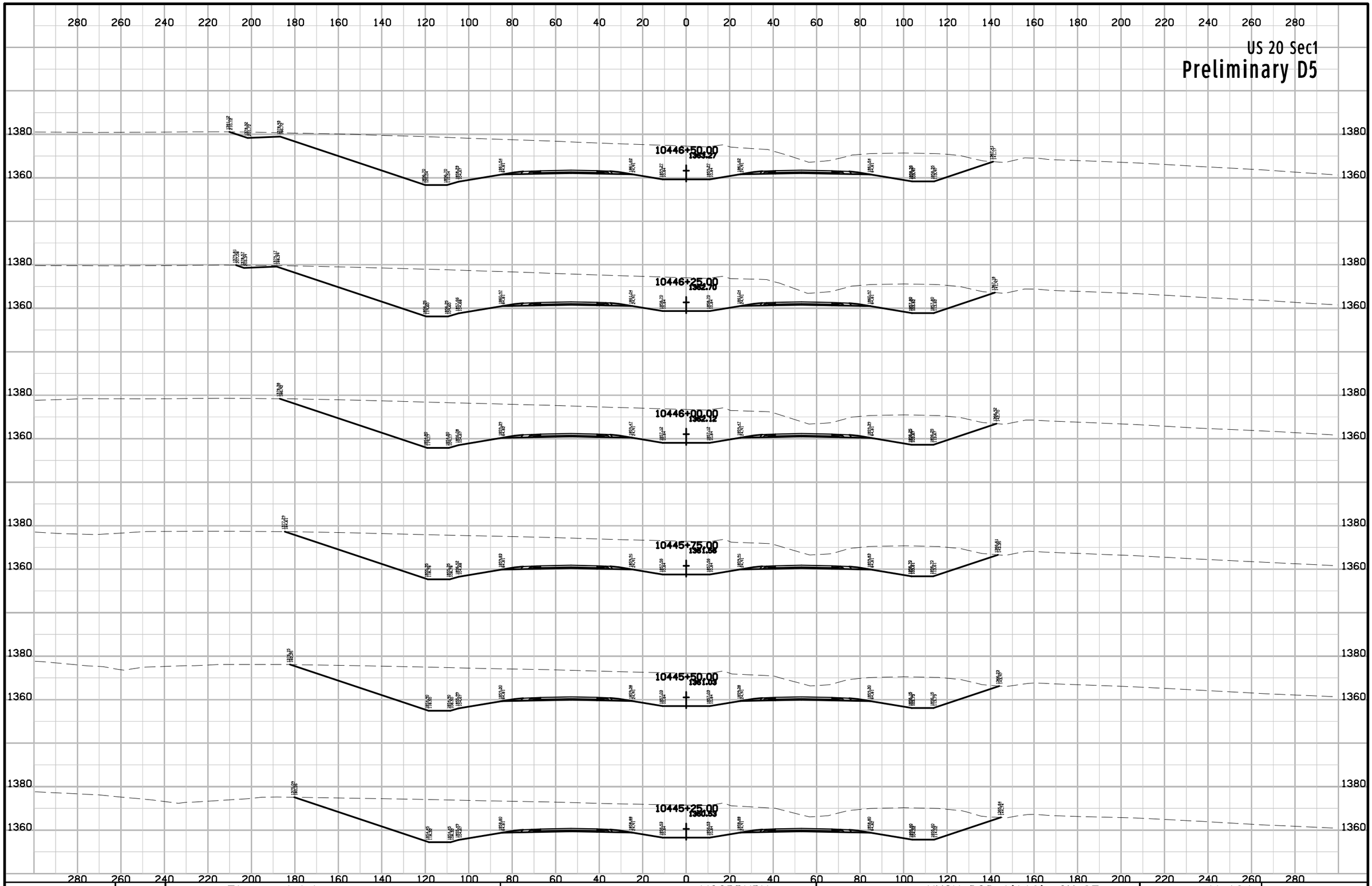
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.194

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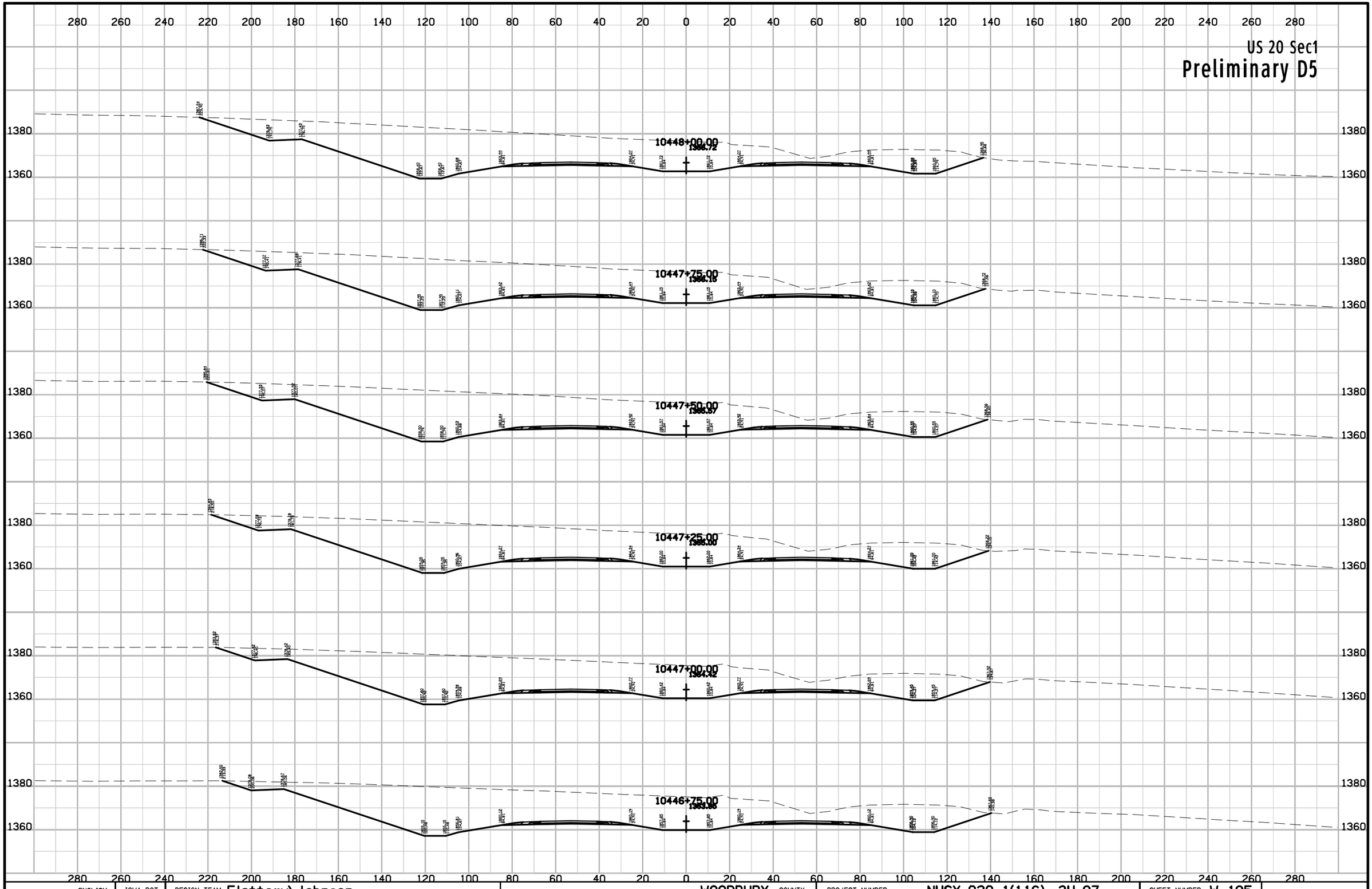
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.195

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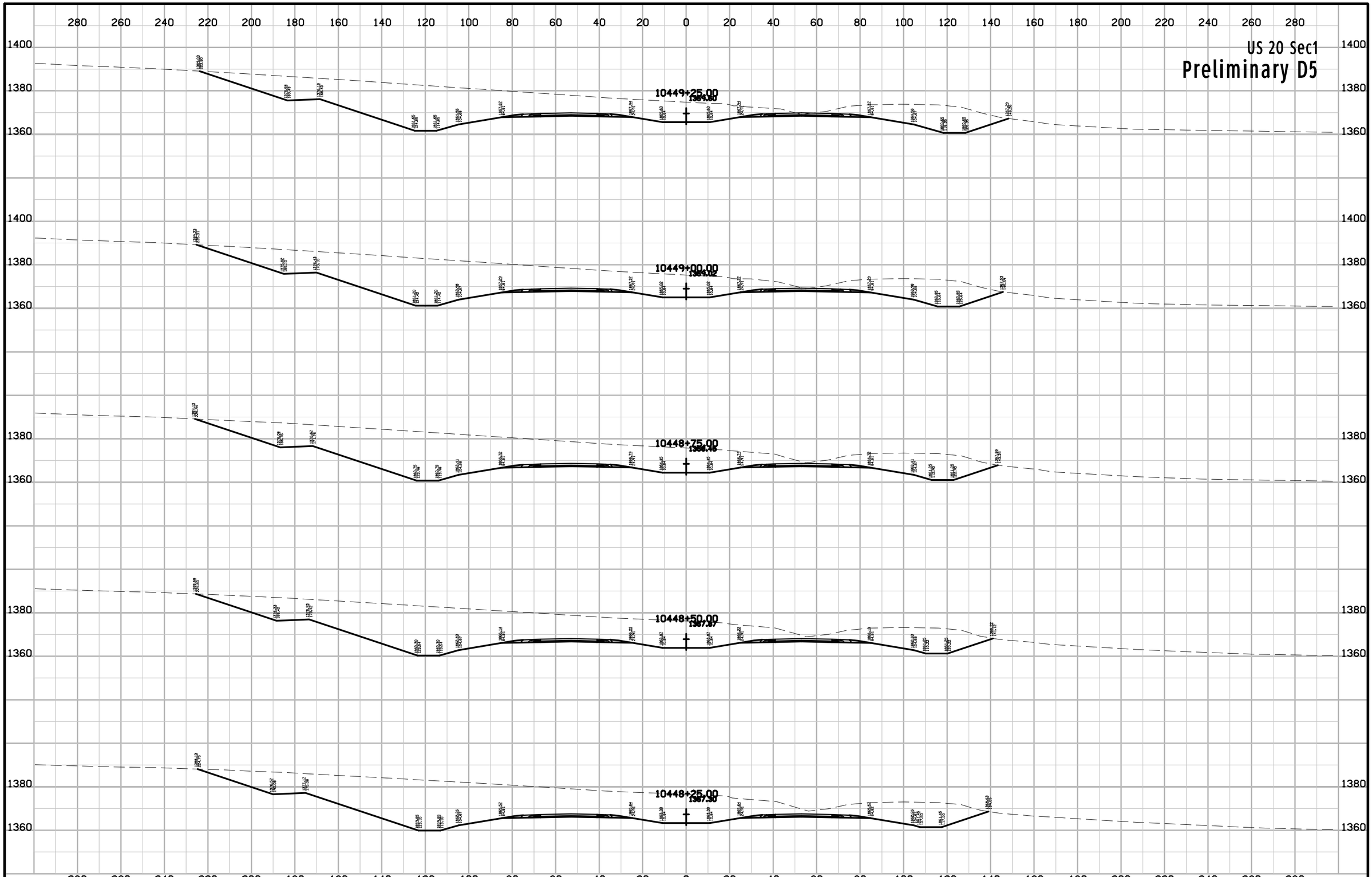
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.196

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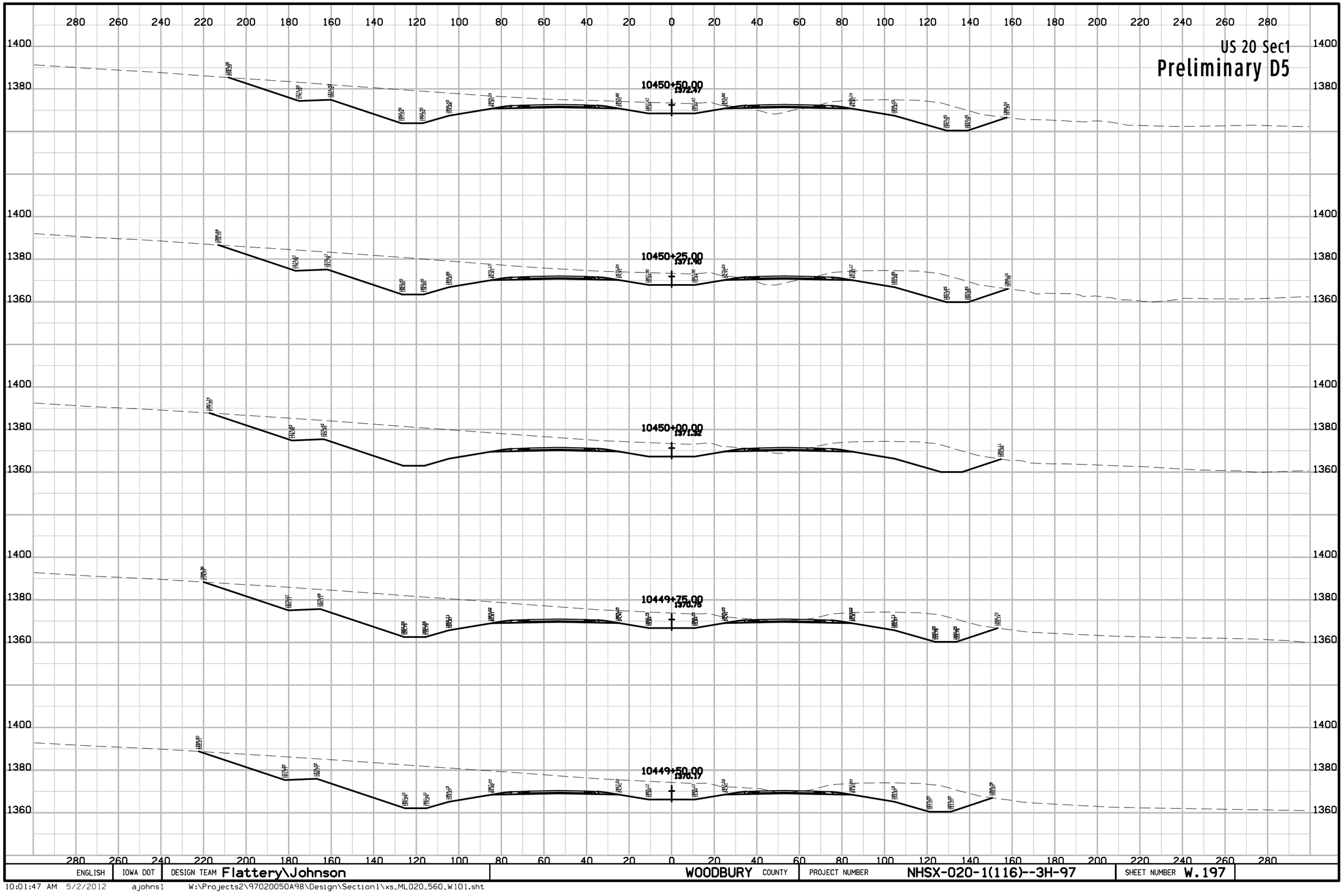
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.197

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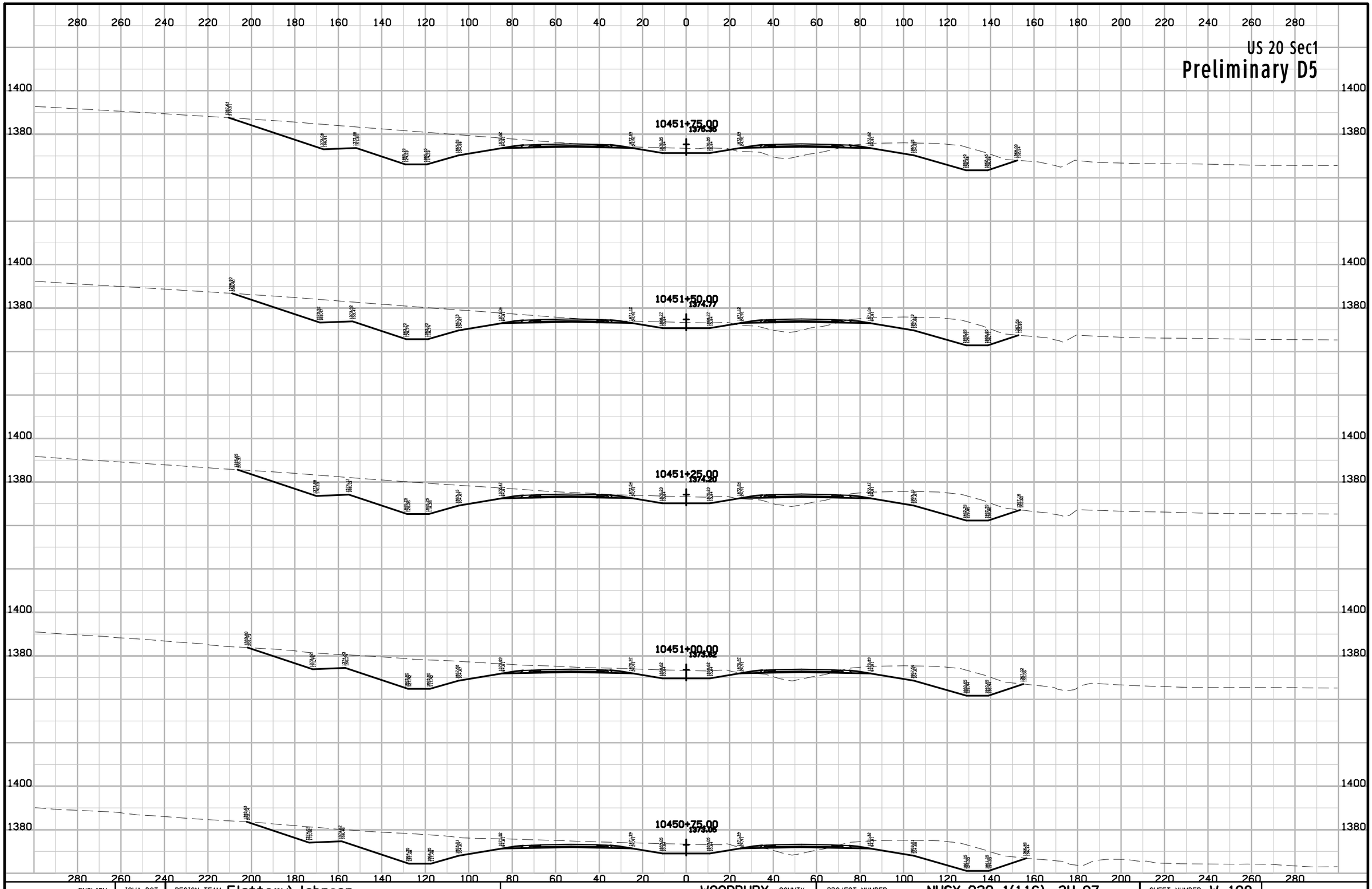
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.198

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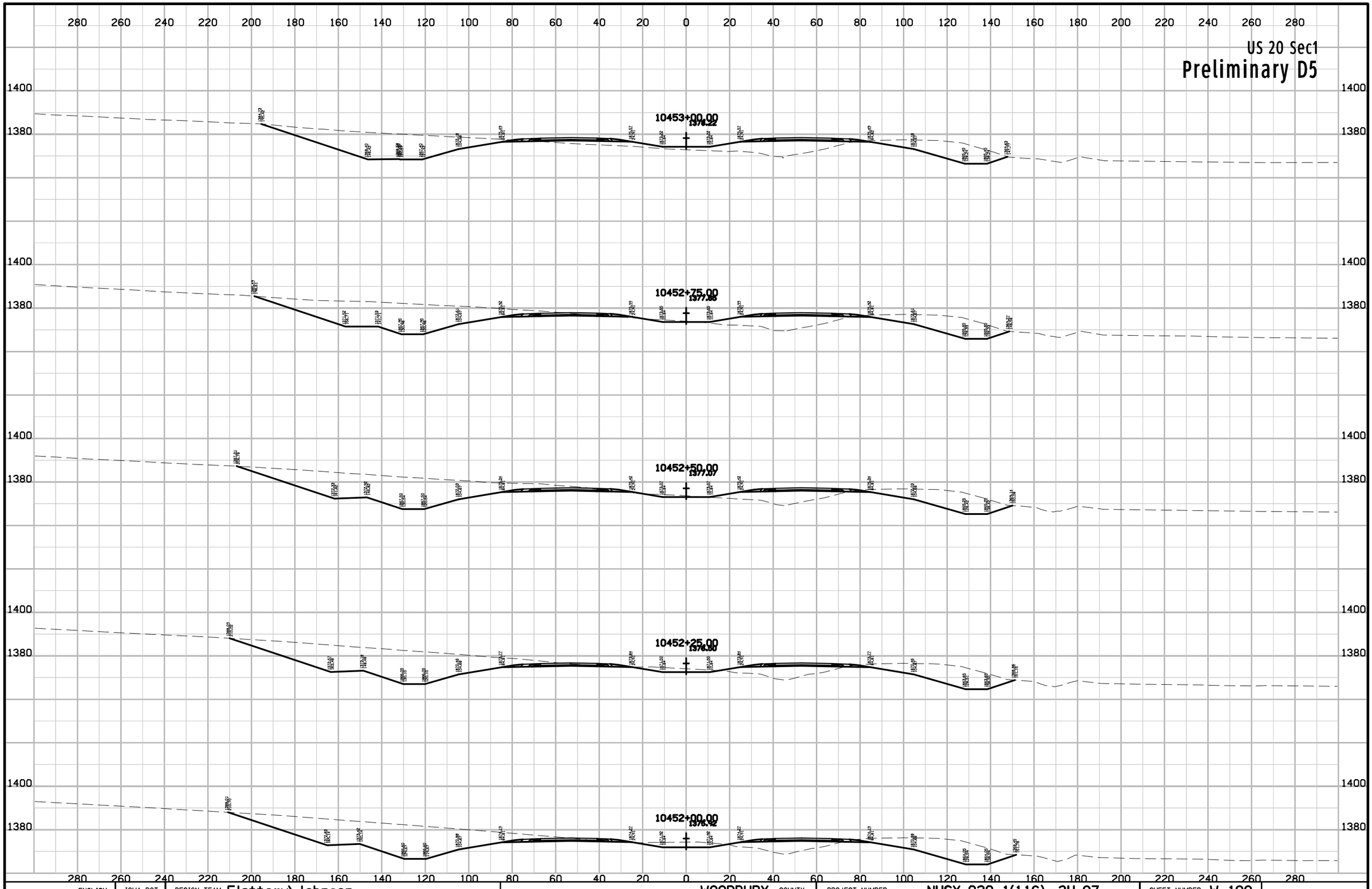
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.199

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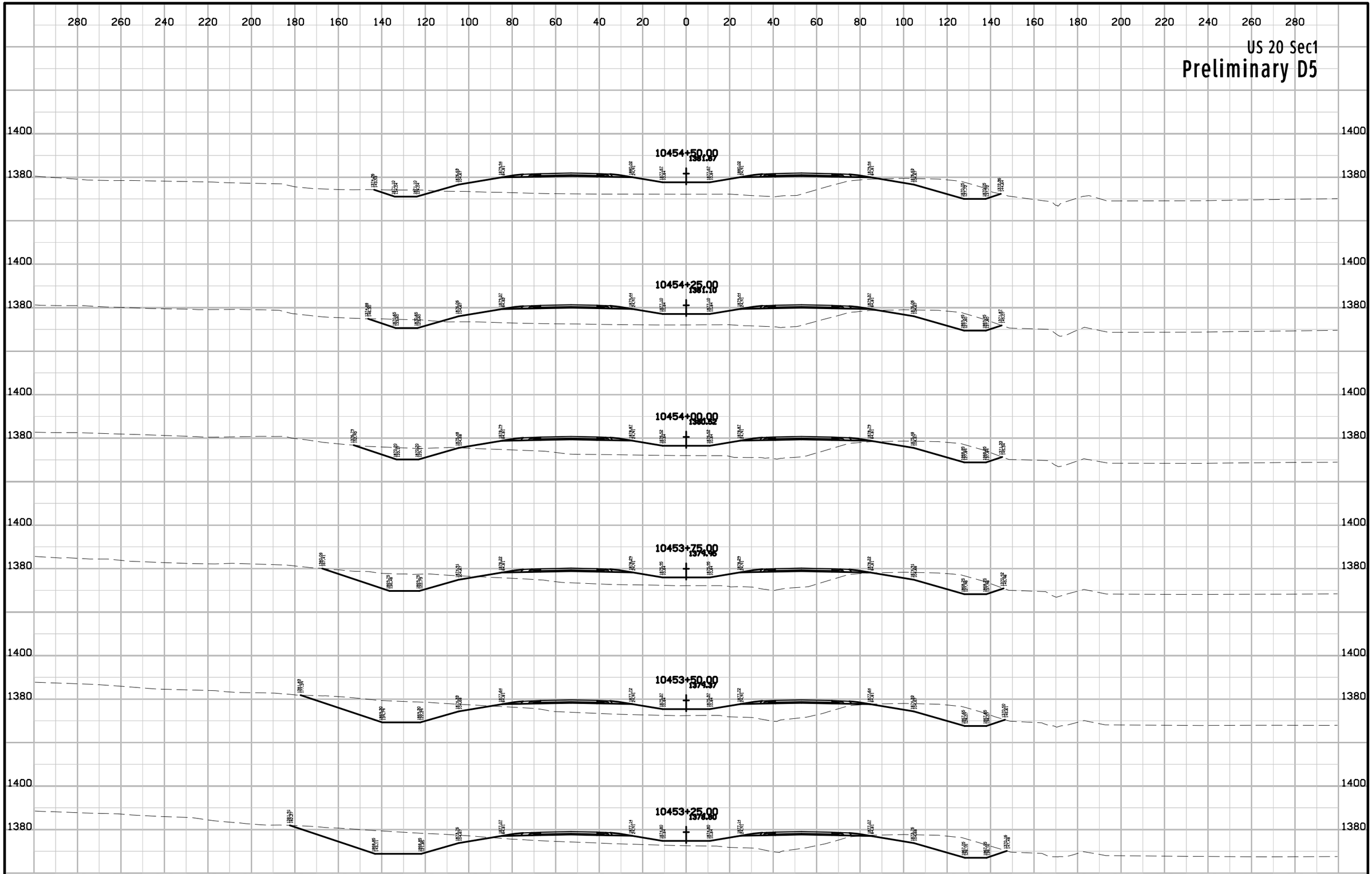
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.200

10:01:49 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D5

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10456+00.00
1386.12

10455+75.00
1384.66

10455+50.00
1383.97

10455+25.00
1383.40

10455+00.00
1382.92

10454+75.00
1382.28

1380

1400

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.201

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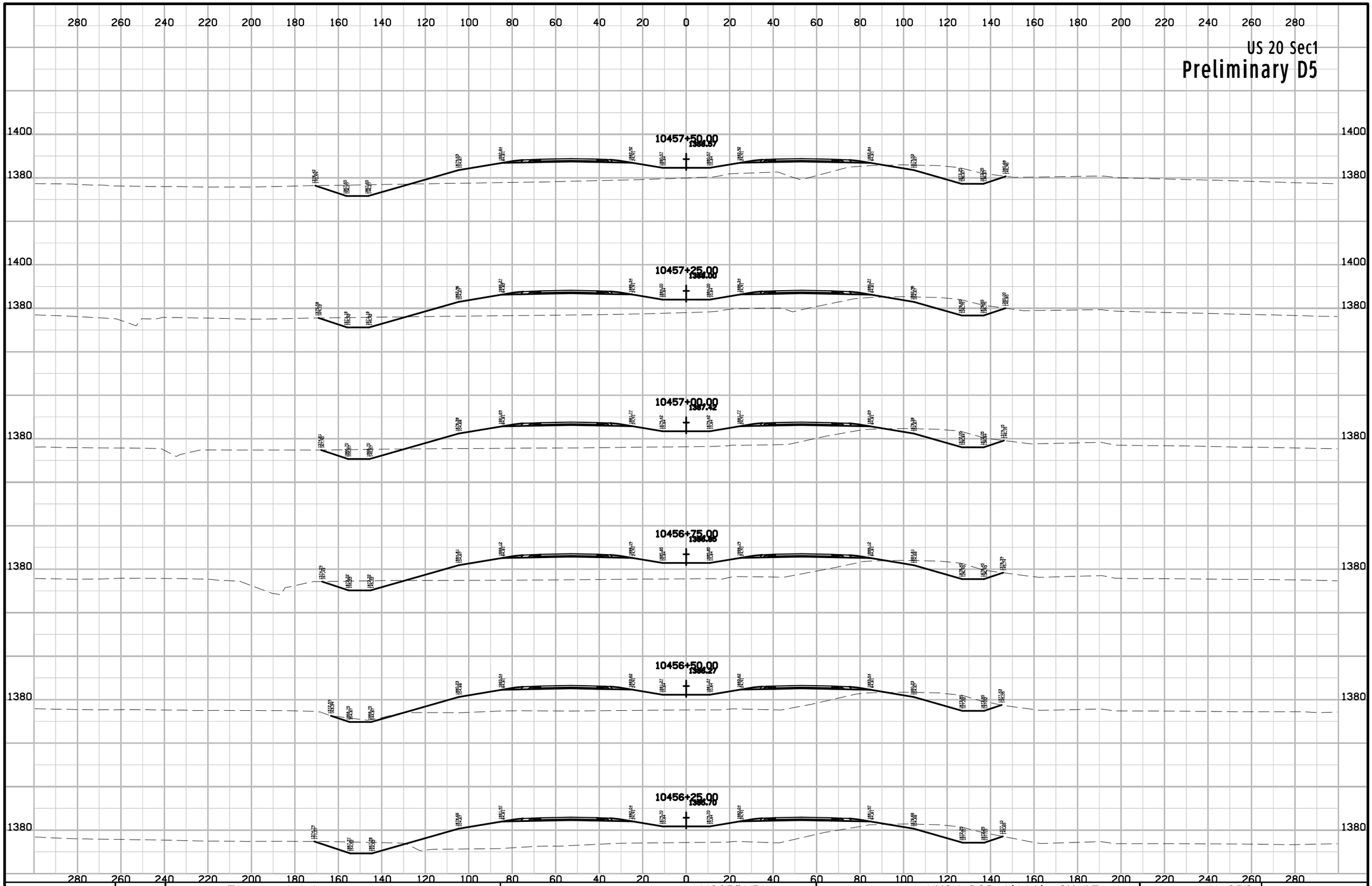
US 20 Sec1

Preliminary D5



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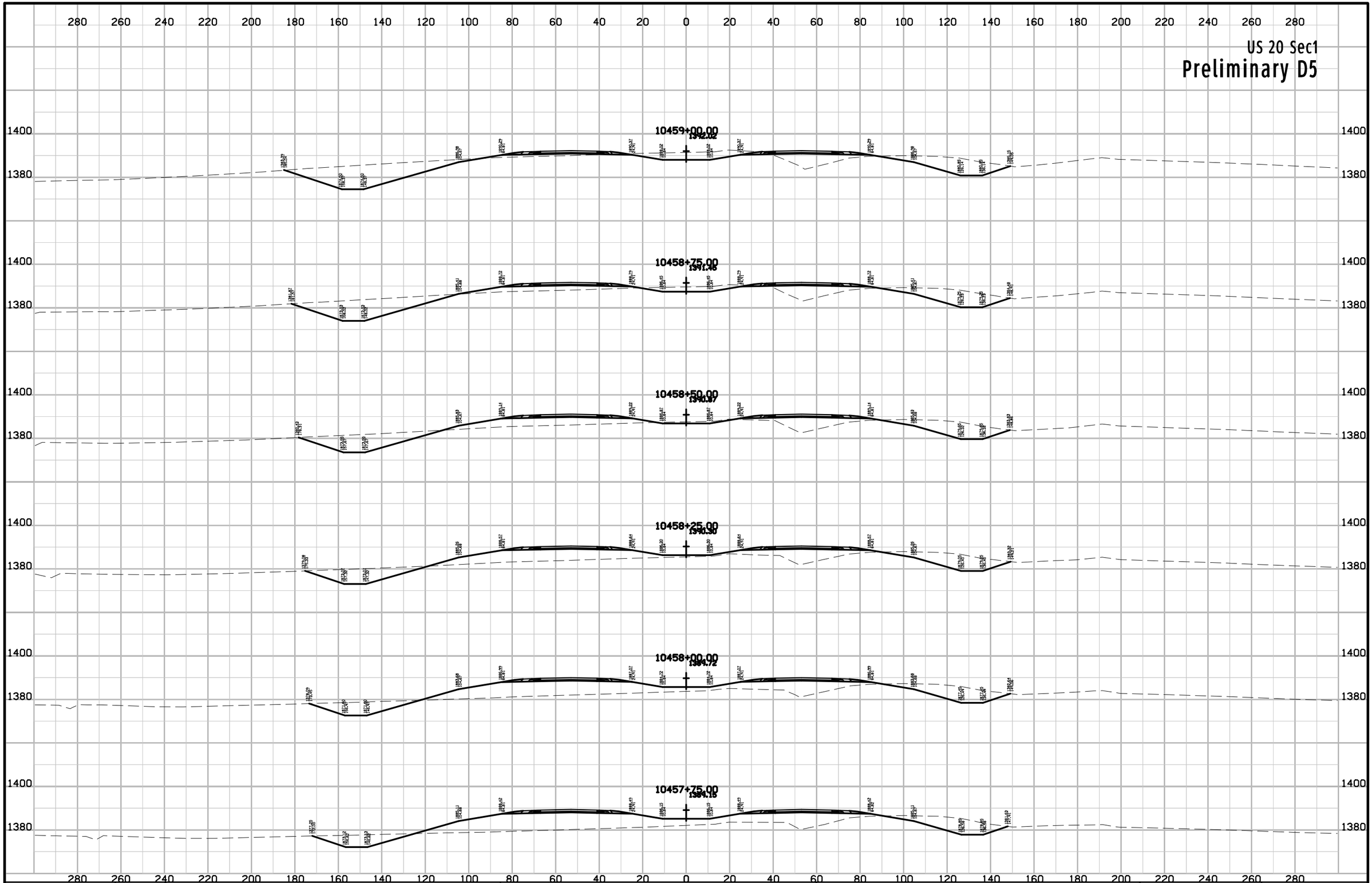
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.203

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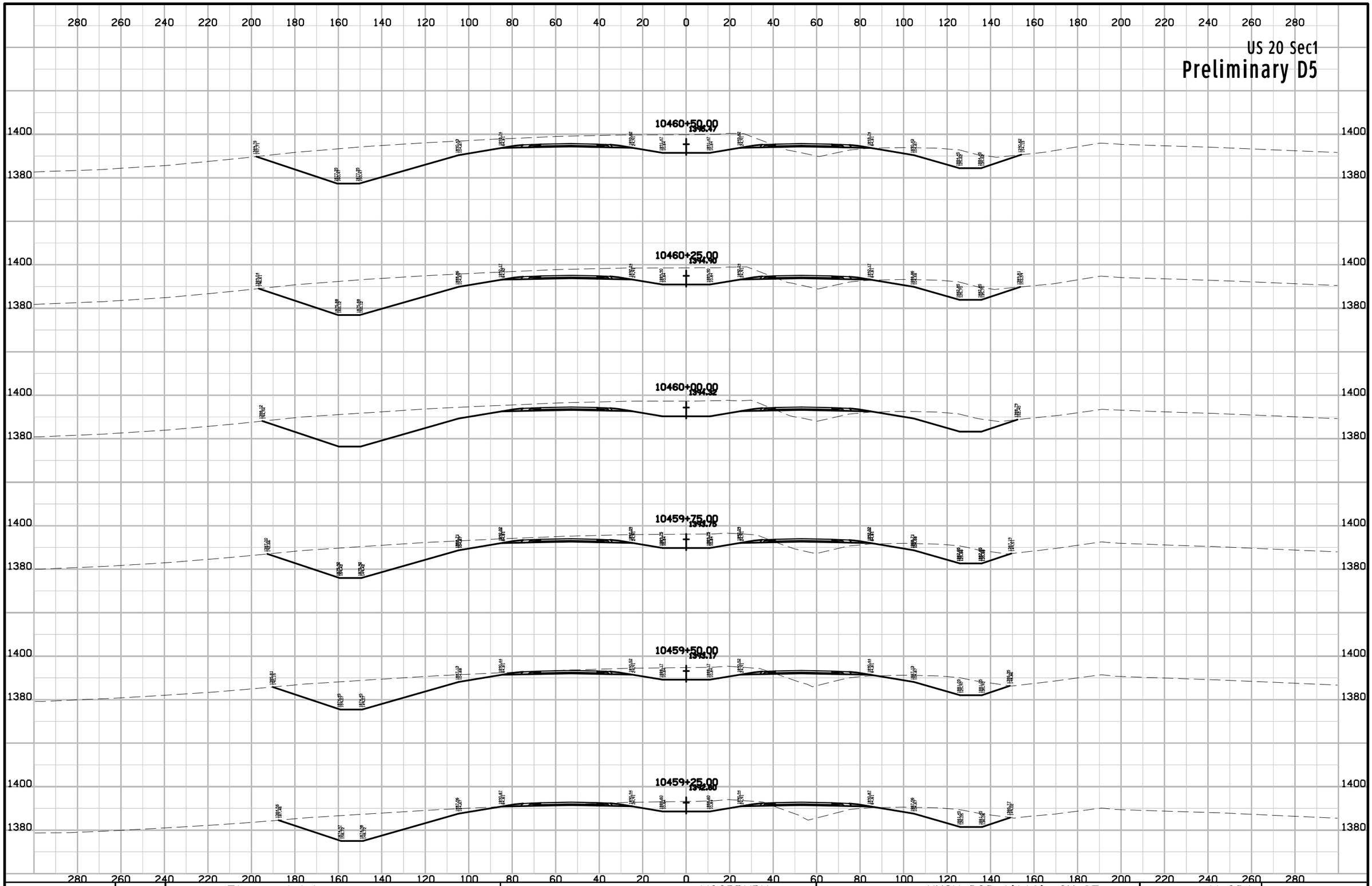
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.204

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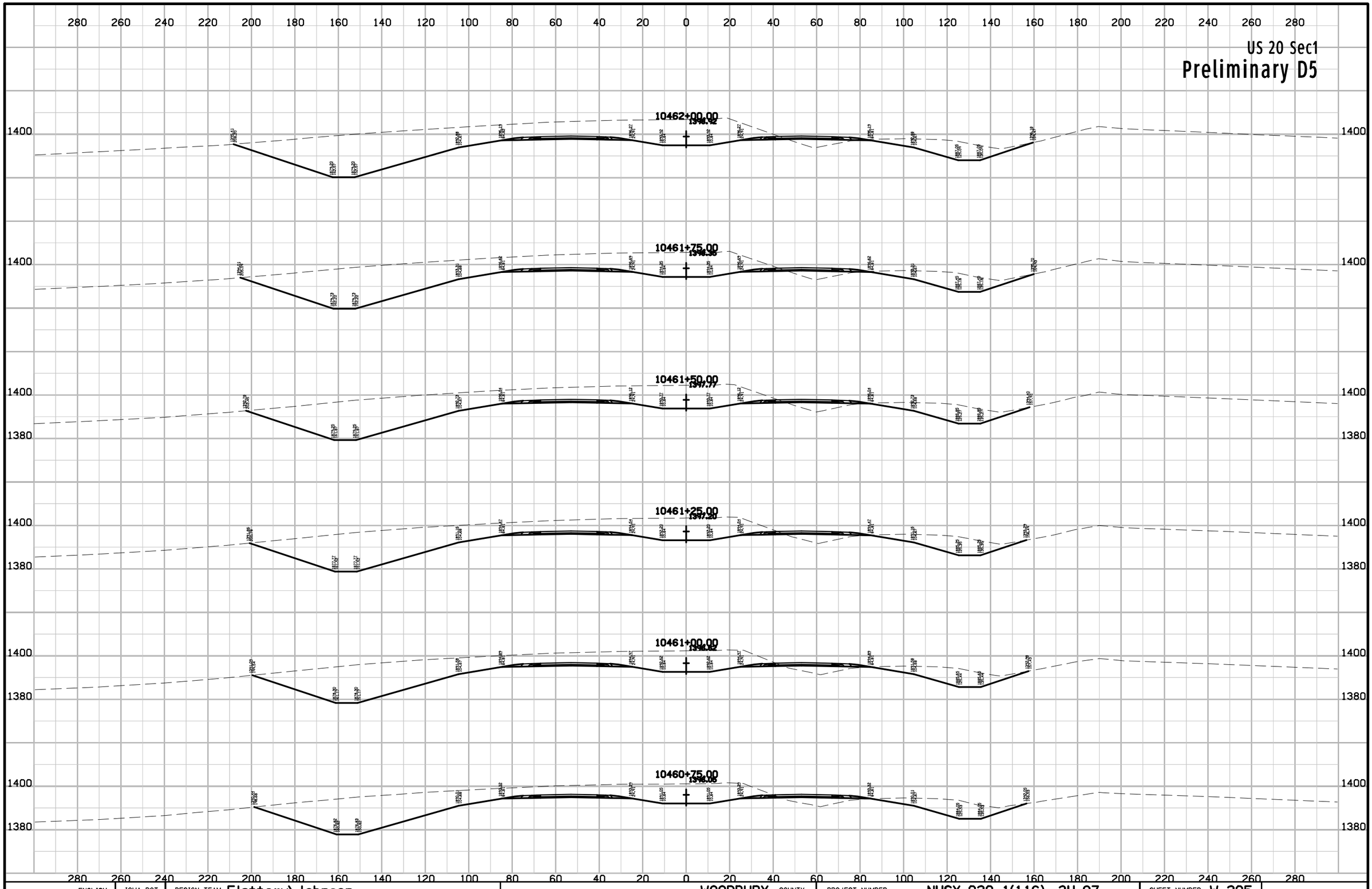
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.205

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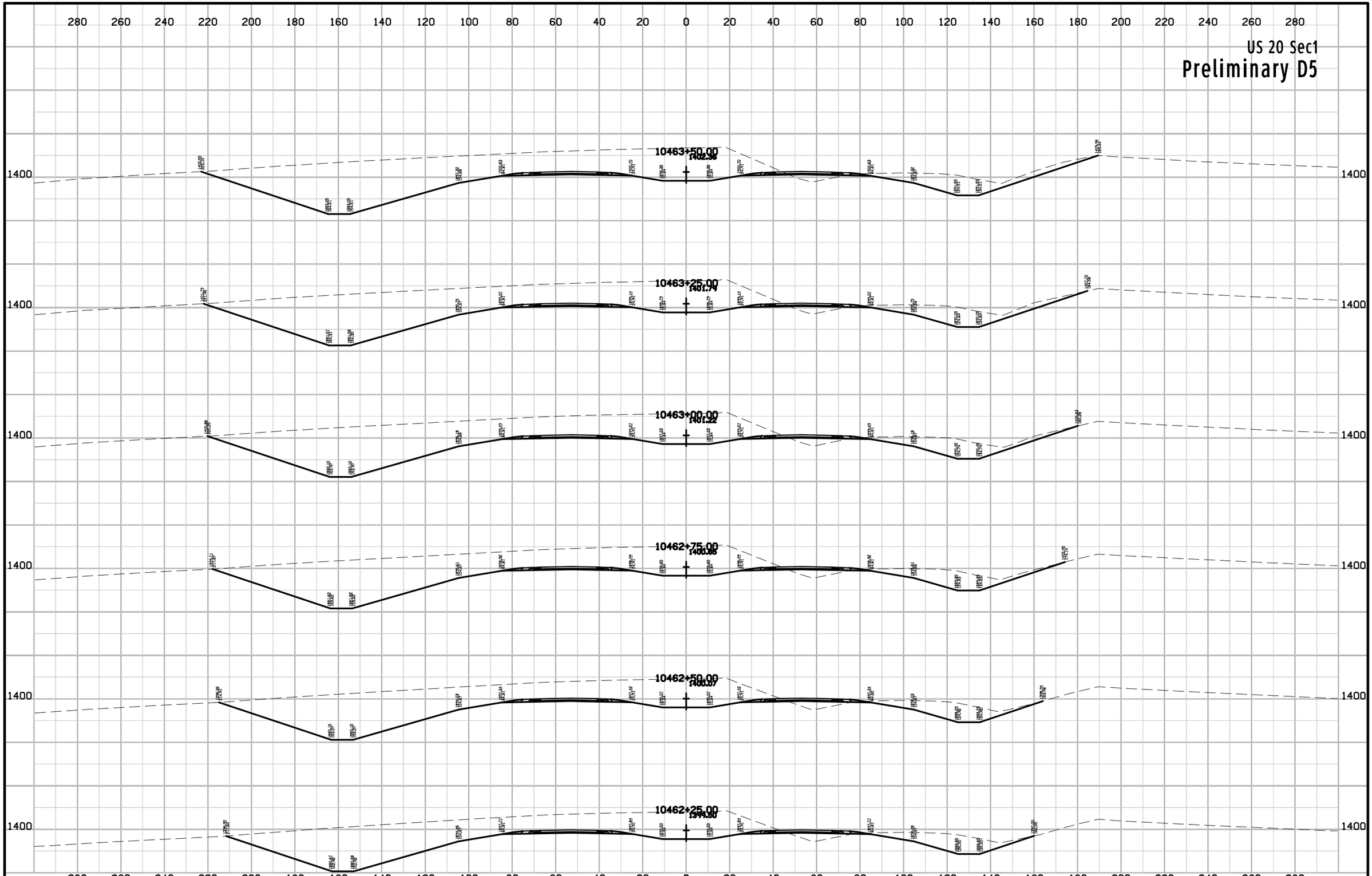
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.206

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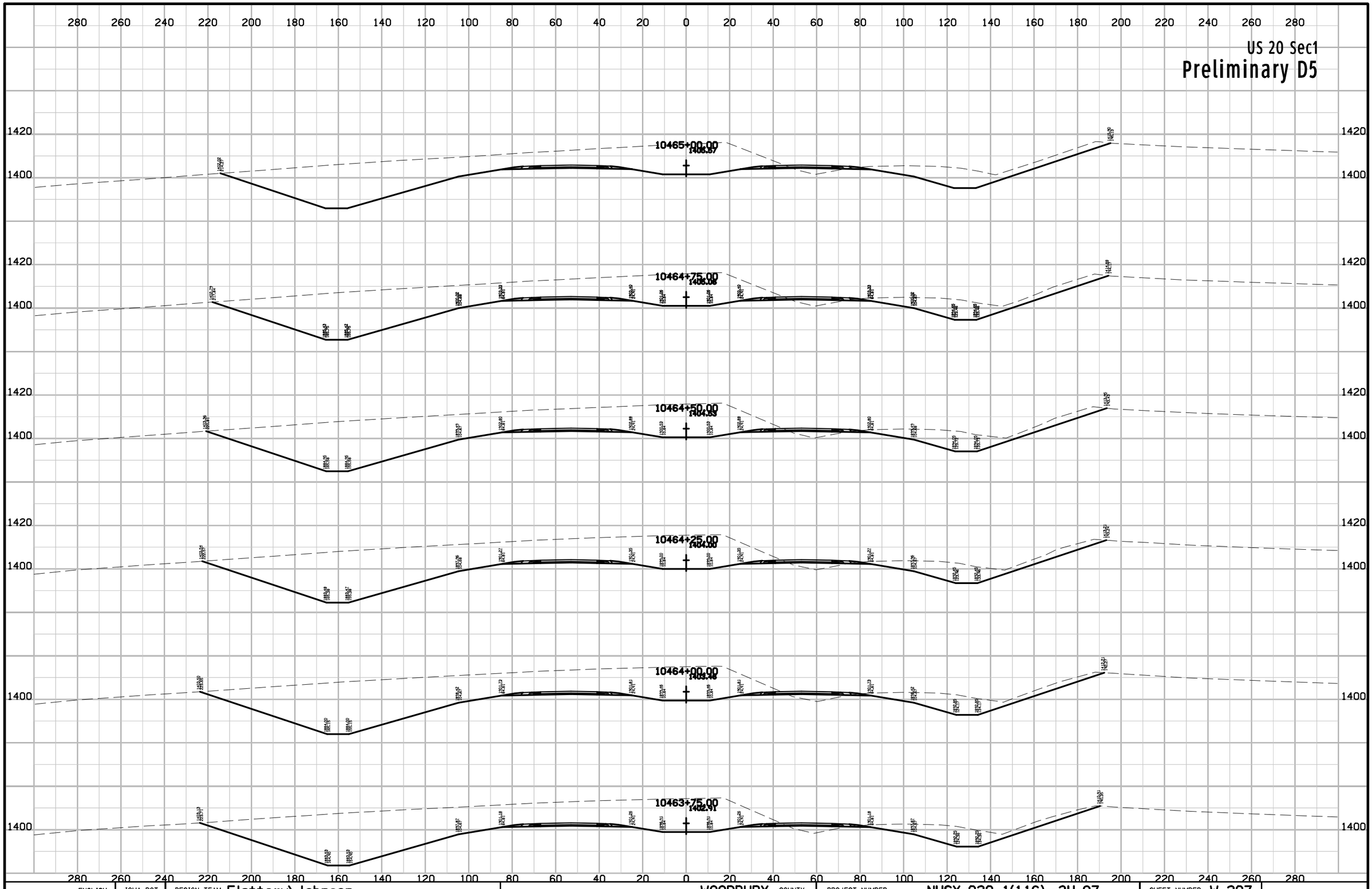
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.207

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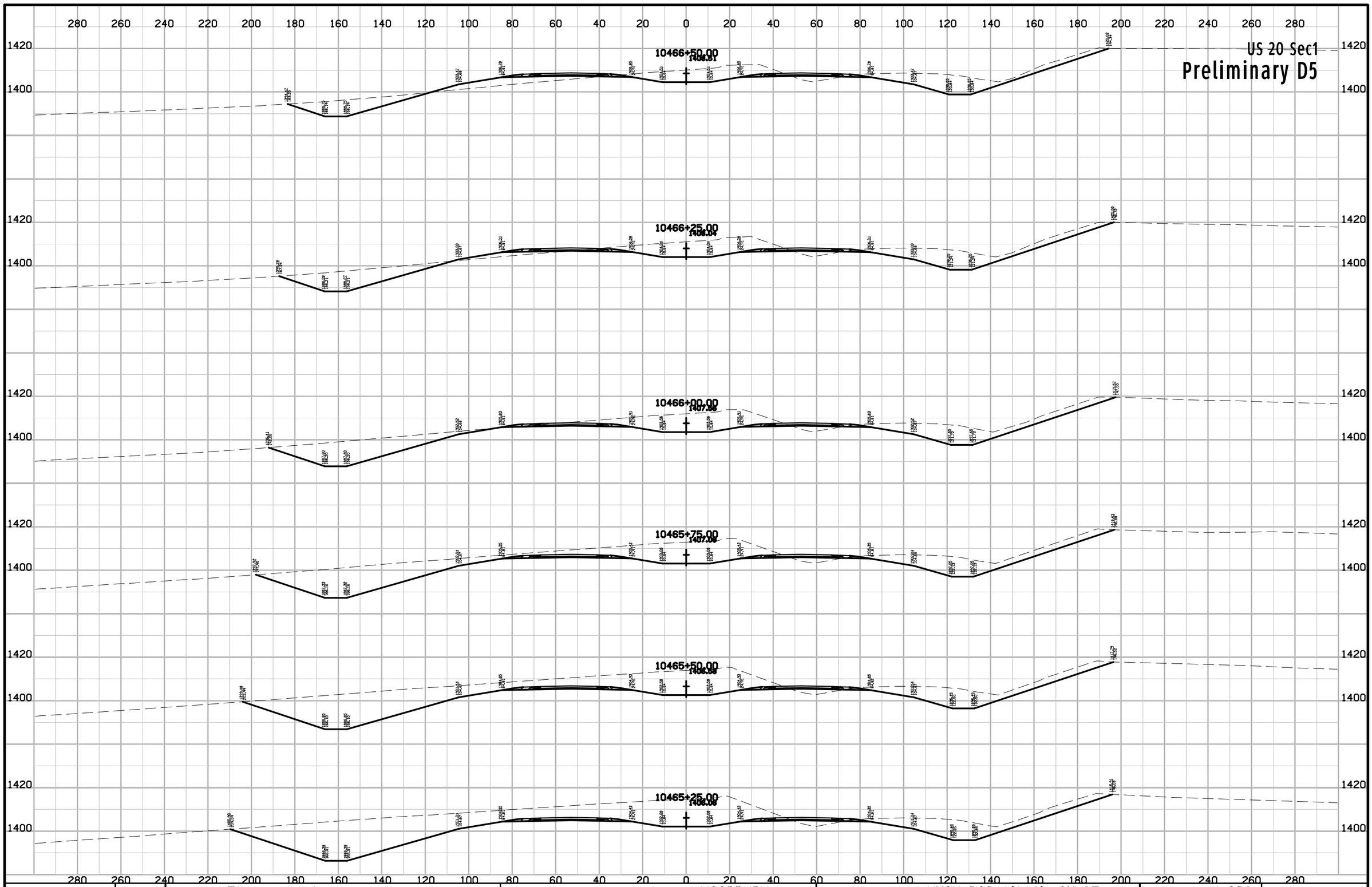
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.208

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US 20 Sec1

Preliminary D5

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1420
1400

10468+00.00
1411.16

10467+75.00
1410.74

10467+50.00
1410.31

10467+25.00
1409.87

10467+00.00
1404.42

10466+75.00
1408.97

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.209

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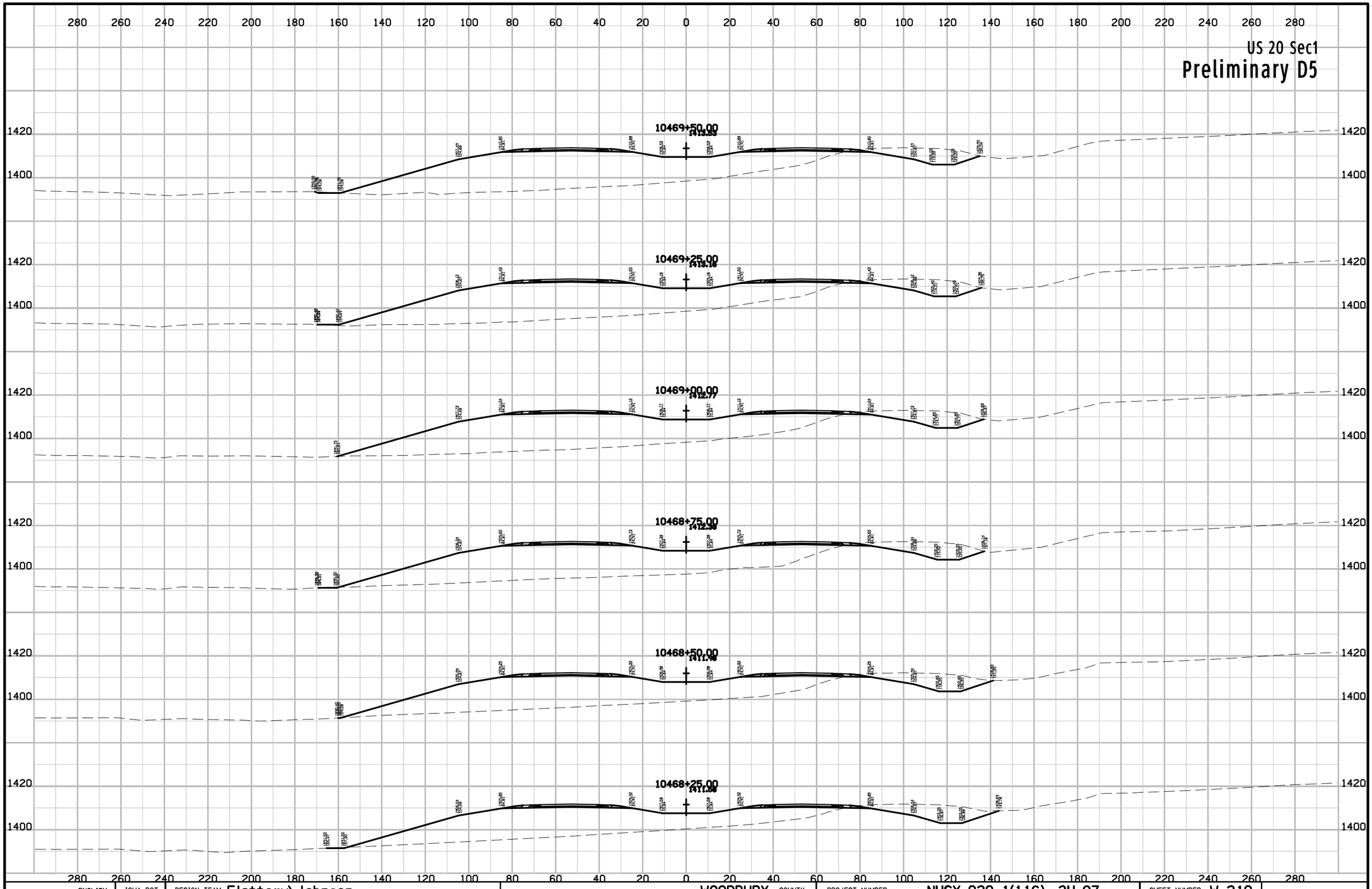
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.210

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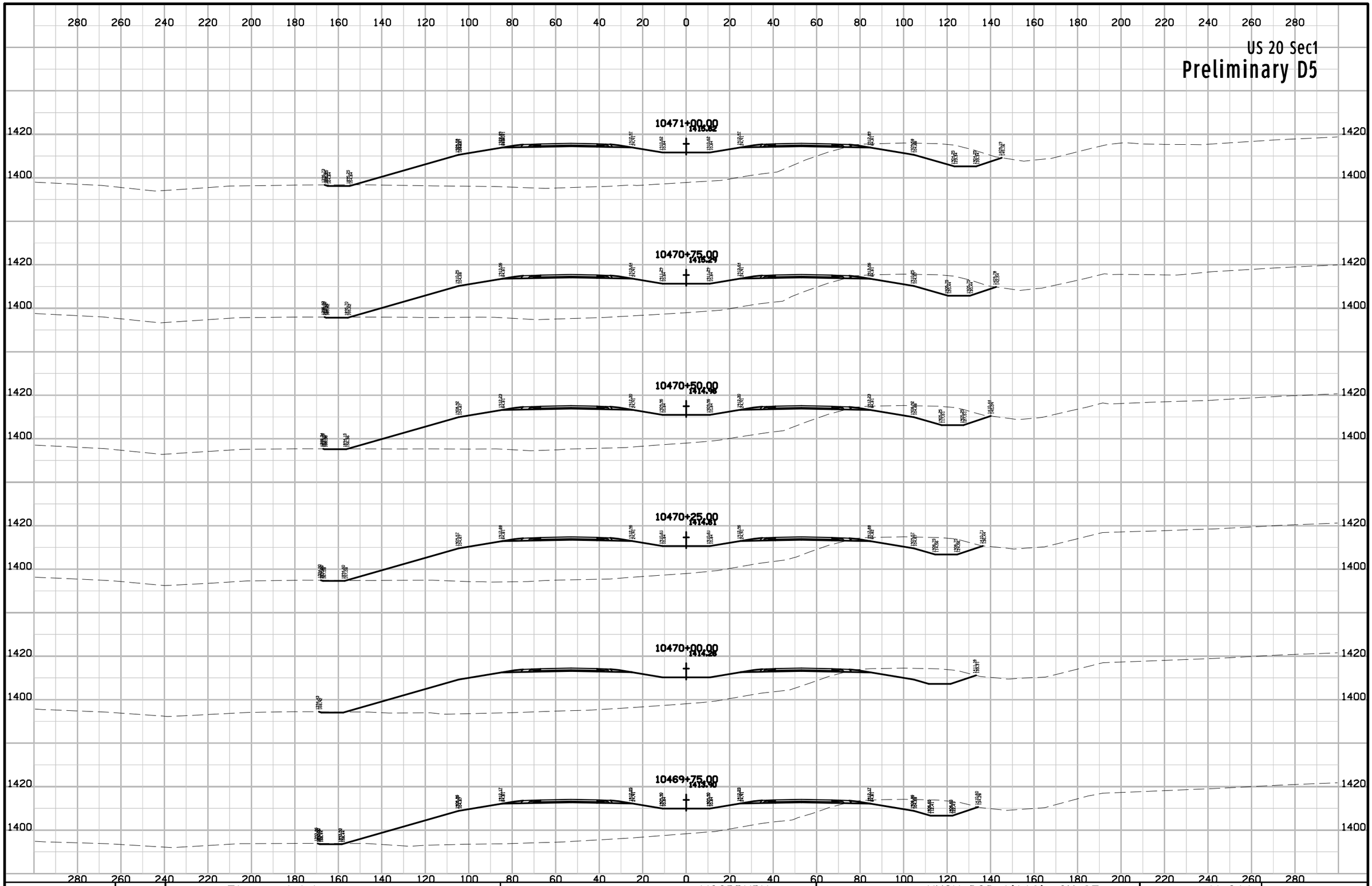
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.211

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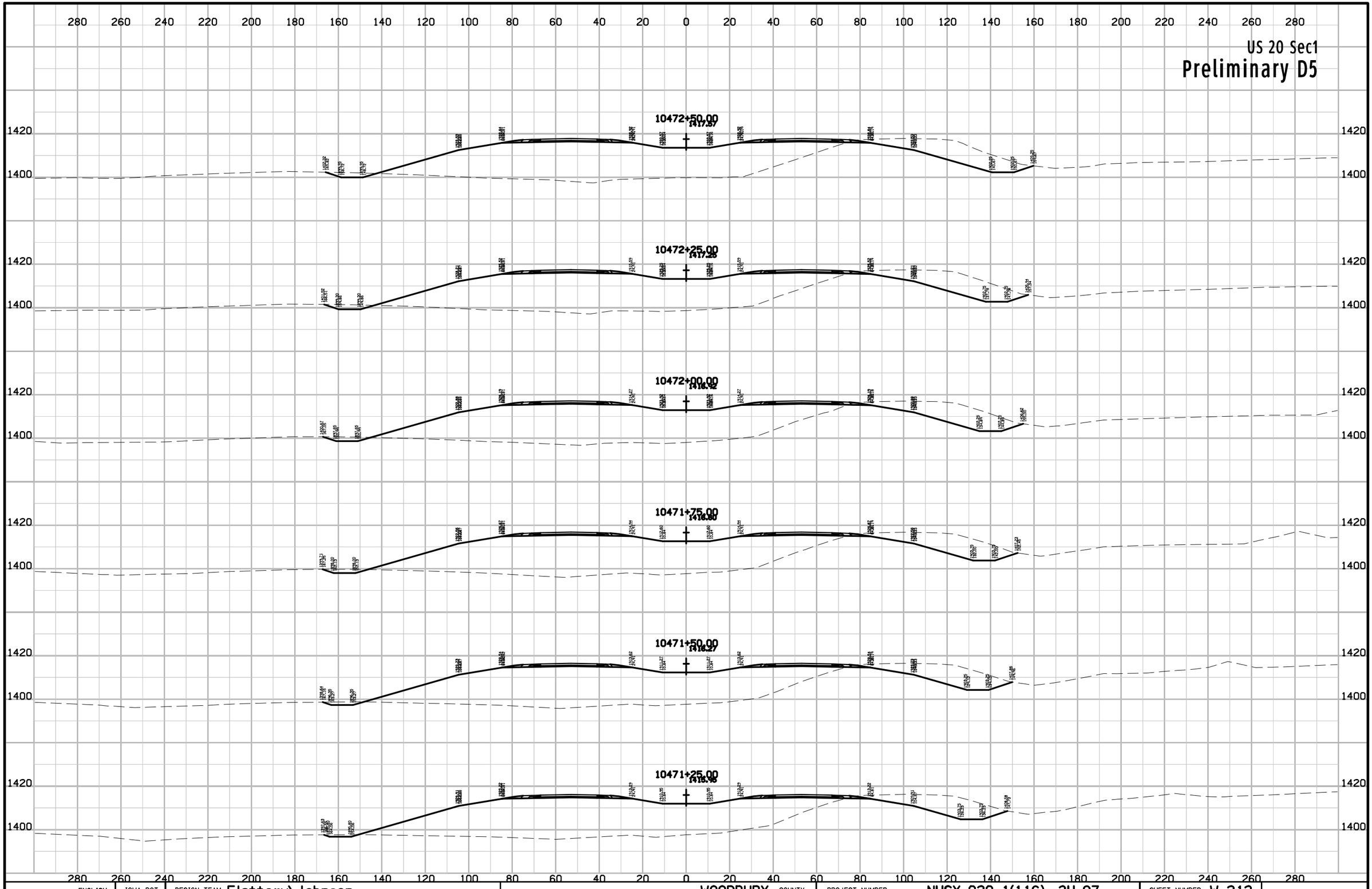
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.212

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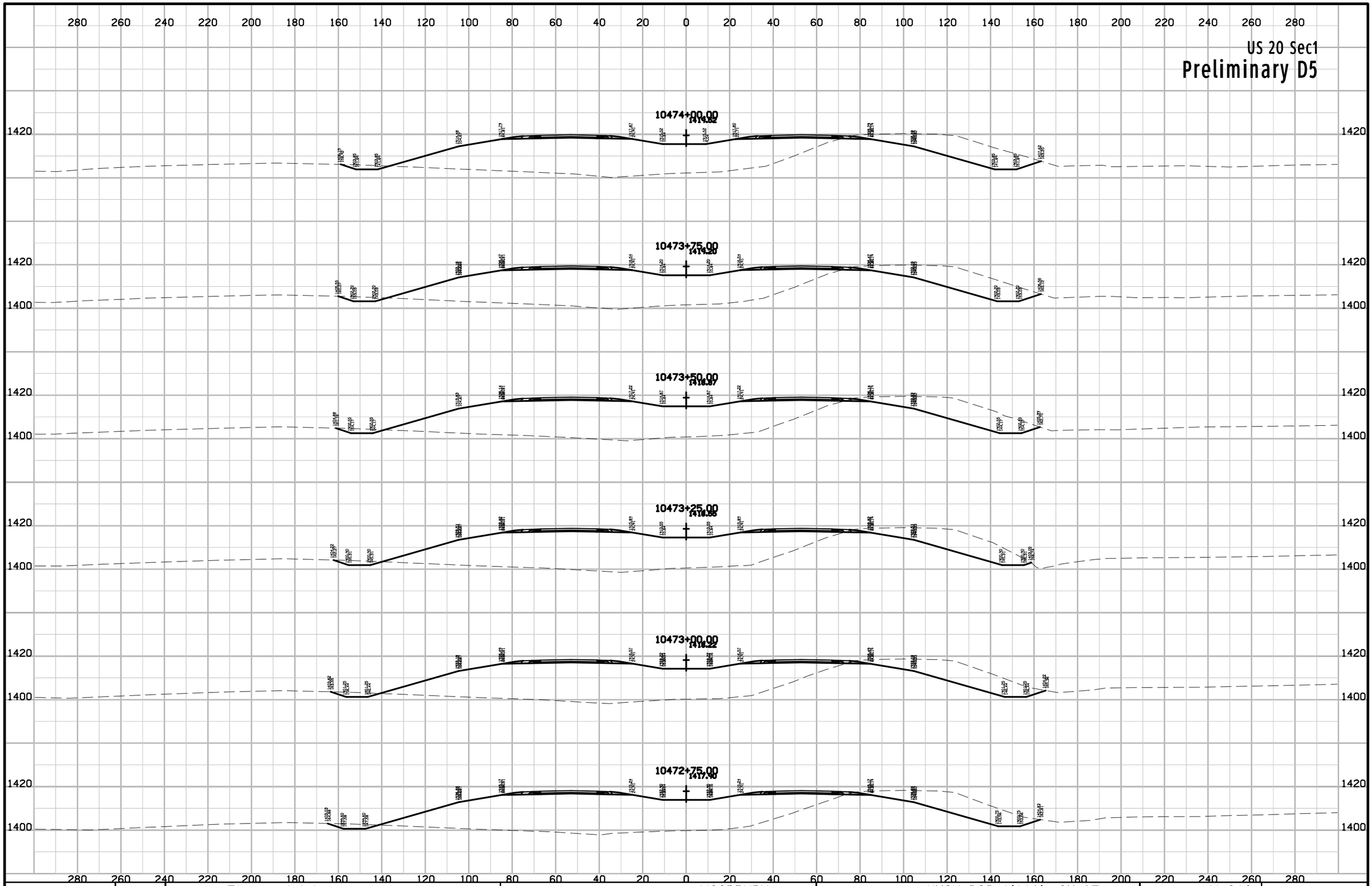
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.213

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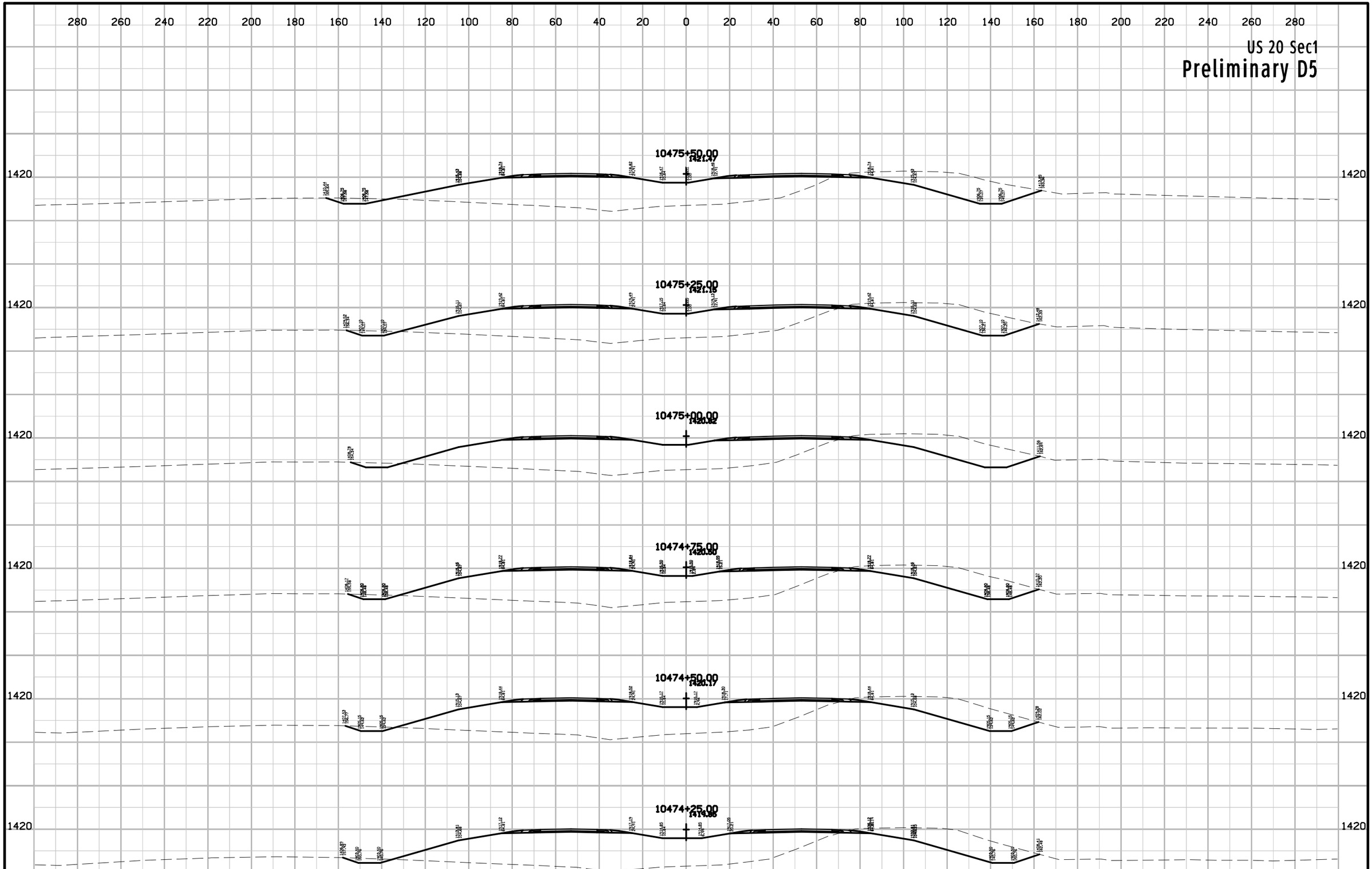
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.214

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US 20 Sec1

Preliminary D5

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10477+00.00
1423.42

10476+75.00
1423.10

10476+50.00
1422.77

10476+25.00
1422.45

10476+00.00
1422.12

10475+75.00
1421.80

1420

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.215

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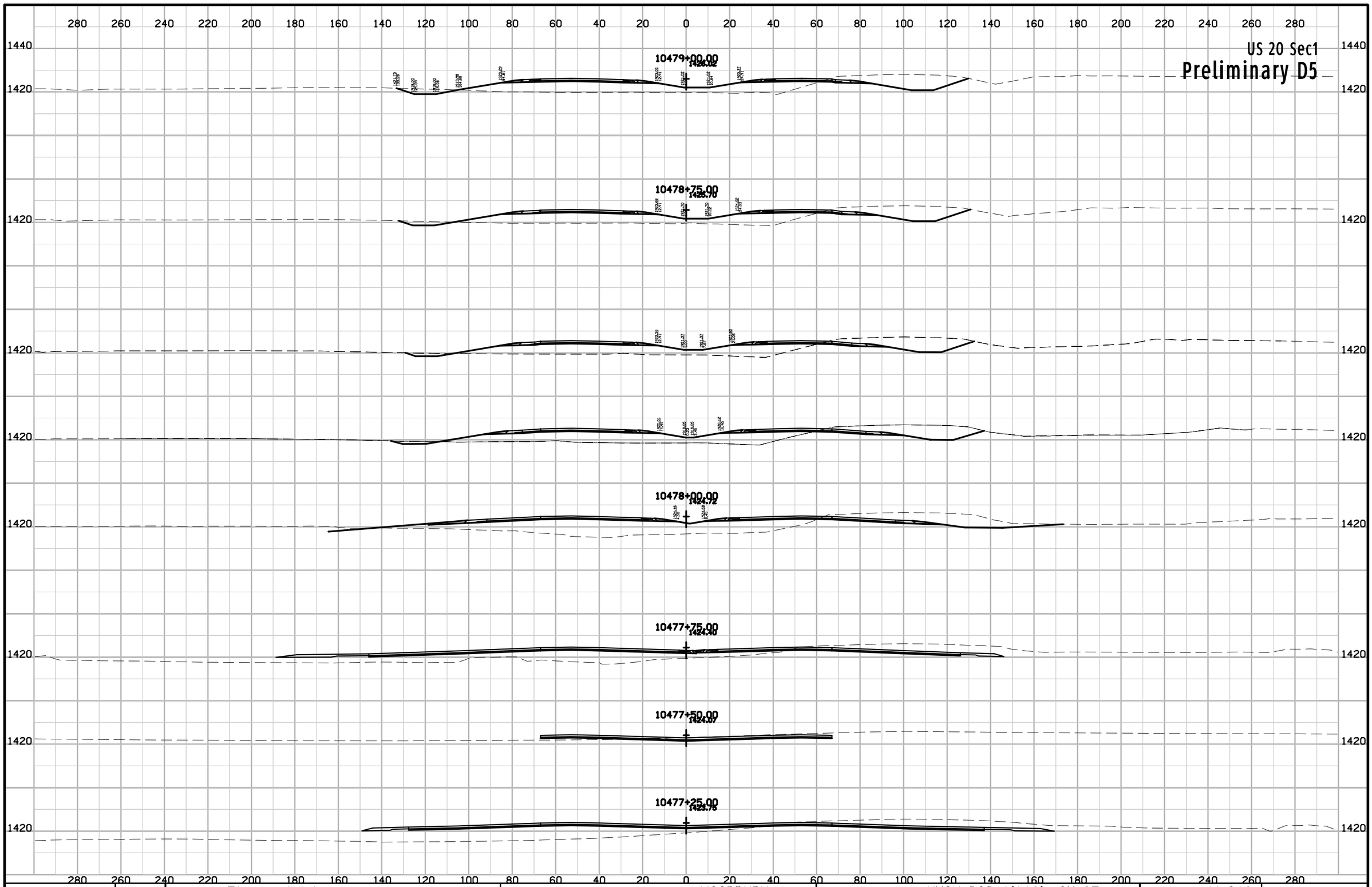
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.216

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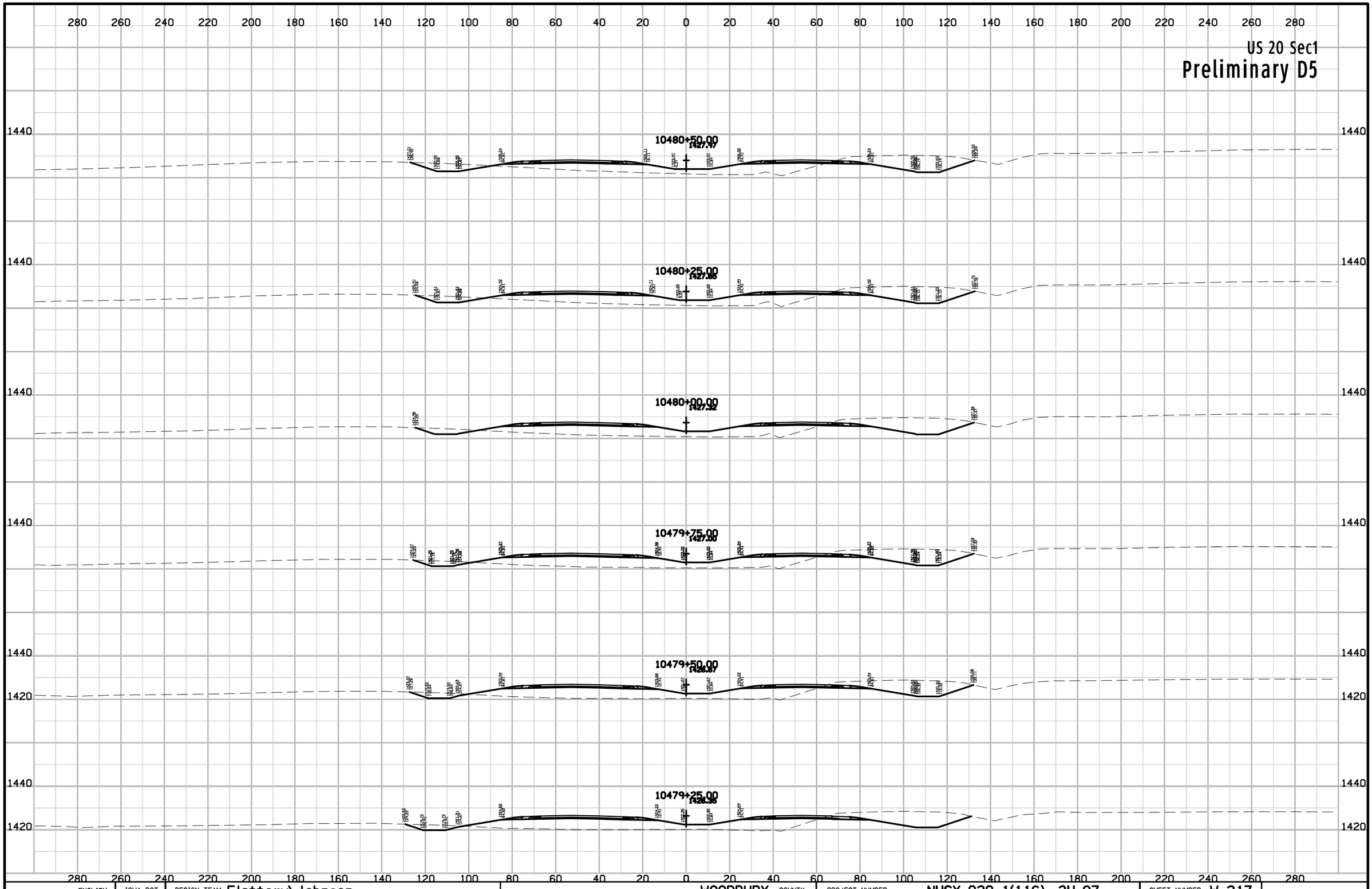
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.217

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US 20 Sec1

Preliminary D5

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1440

10482+25.00
1430.26

10482+00.00
1424.42

10481+75.00
1424.80

10481+50.00
1424.27

10481+25.00
1426.98

10481+00.00
1426.82

10480+75.00
1426.30

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.218

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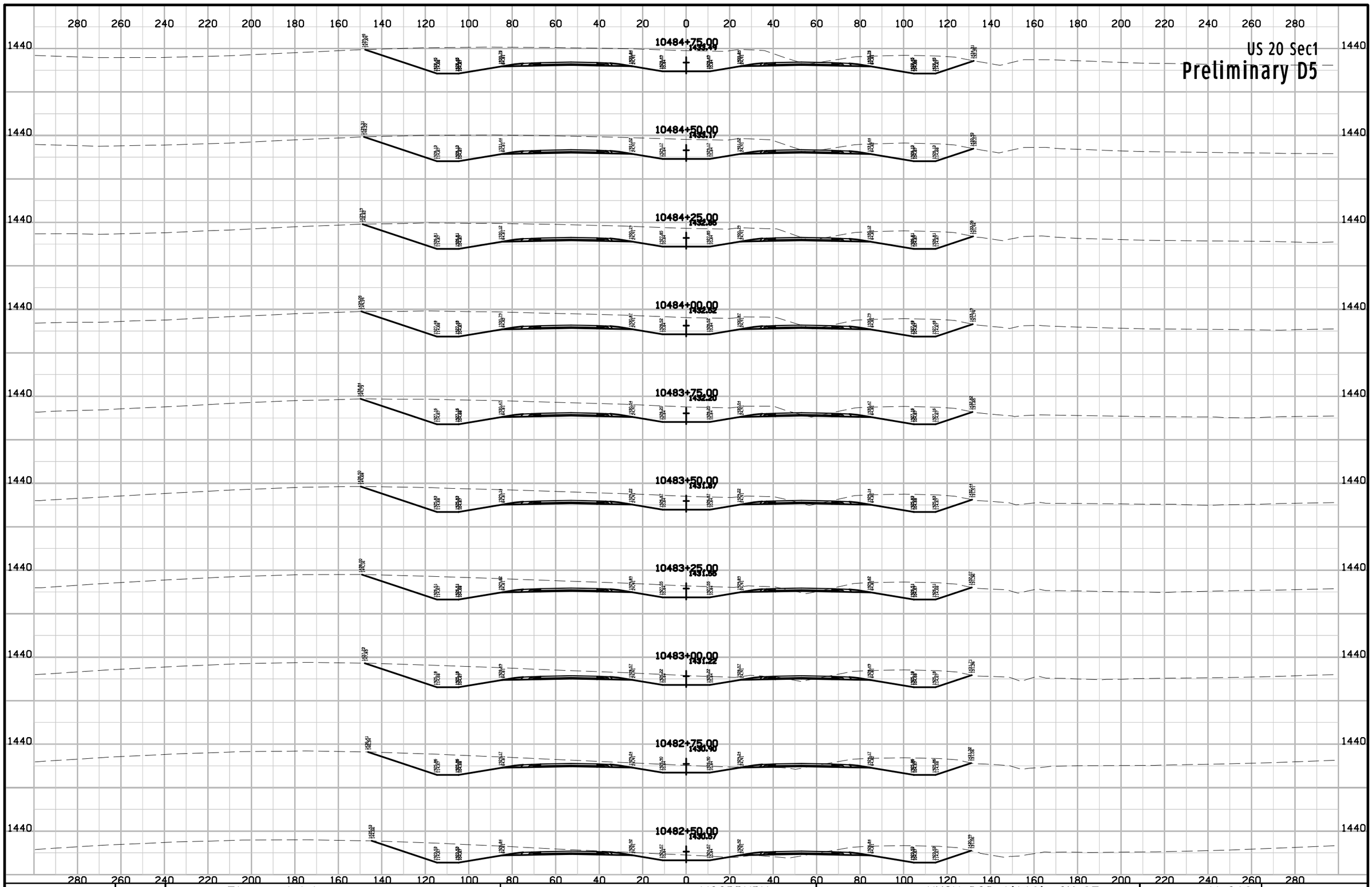
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.219

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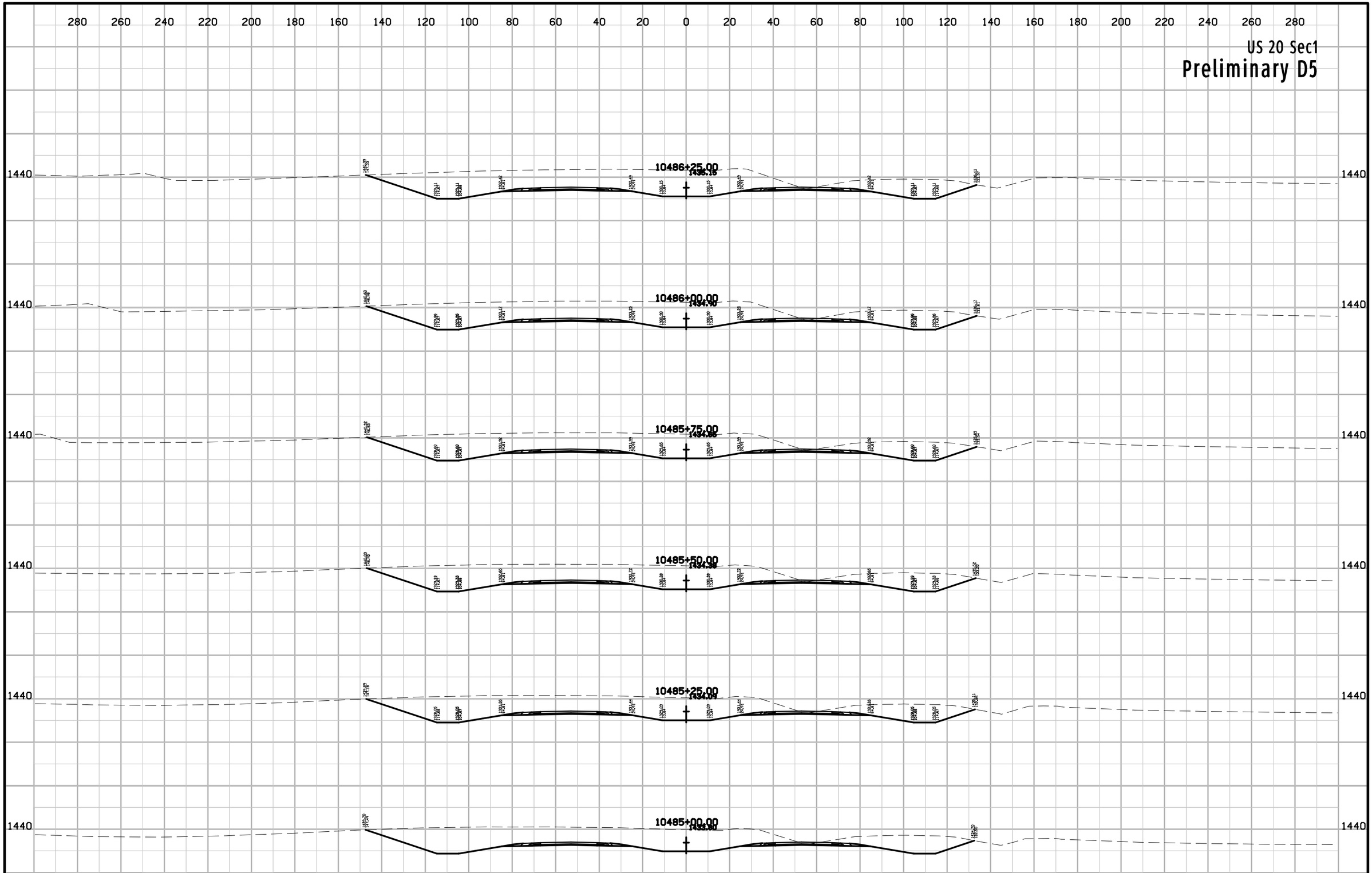

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.220

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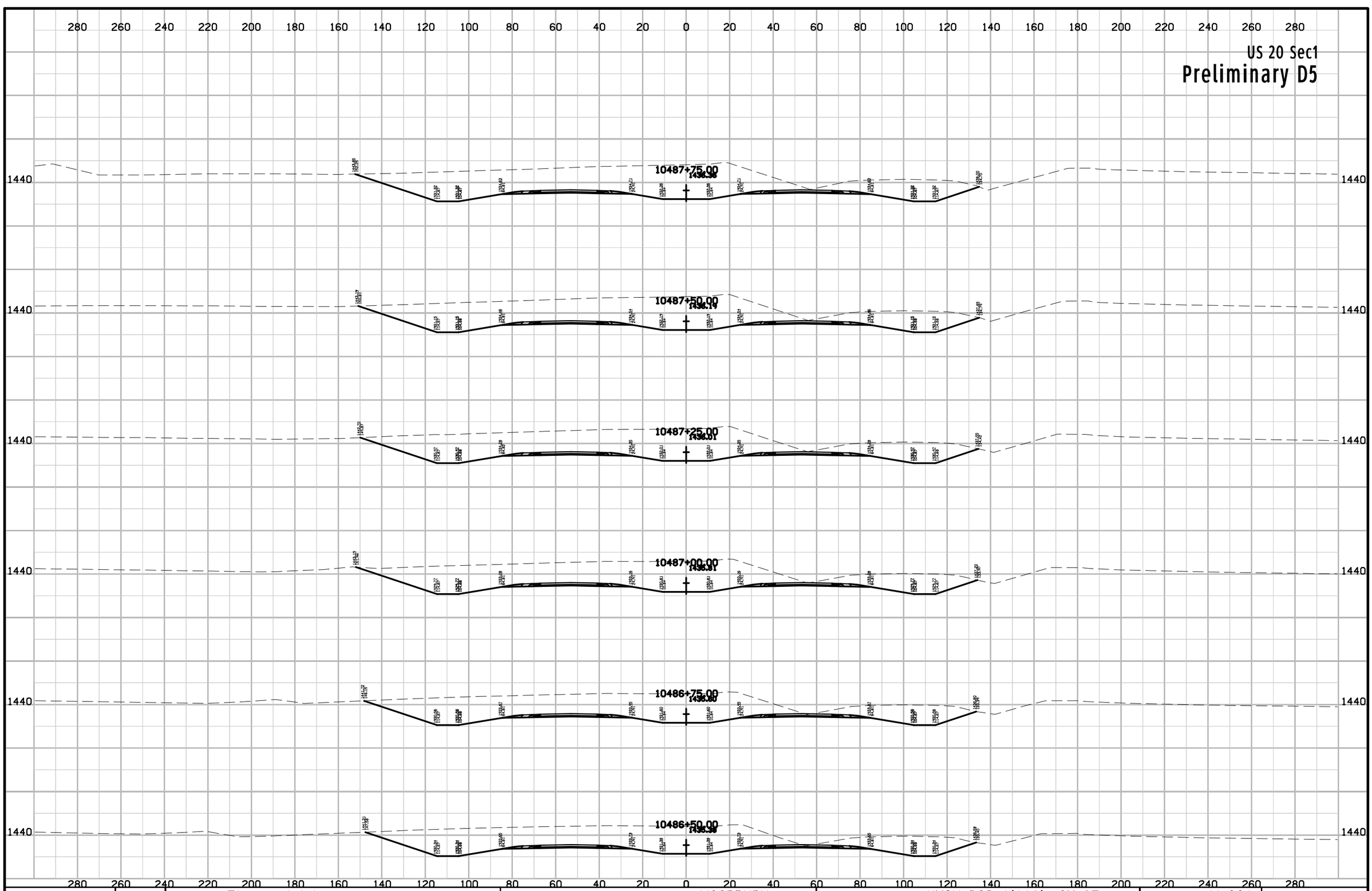
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.221

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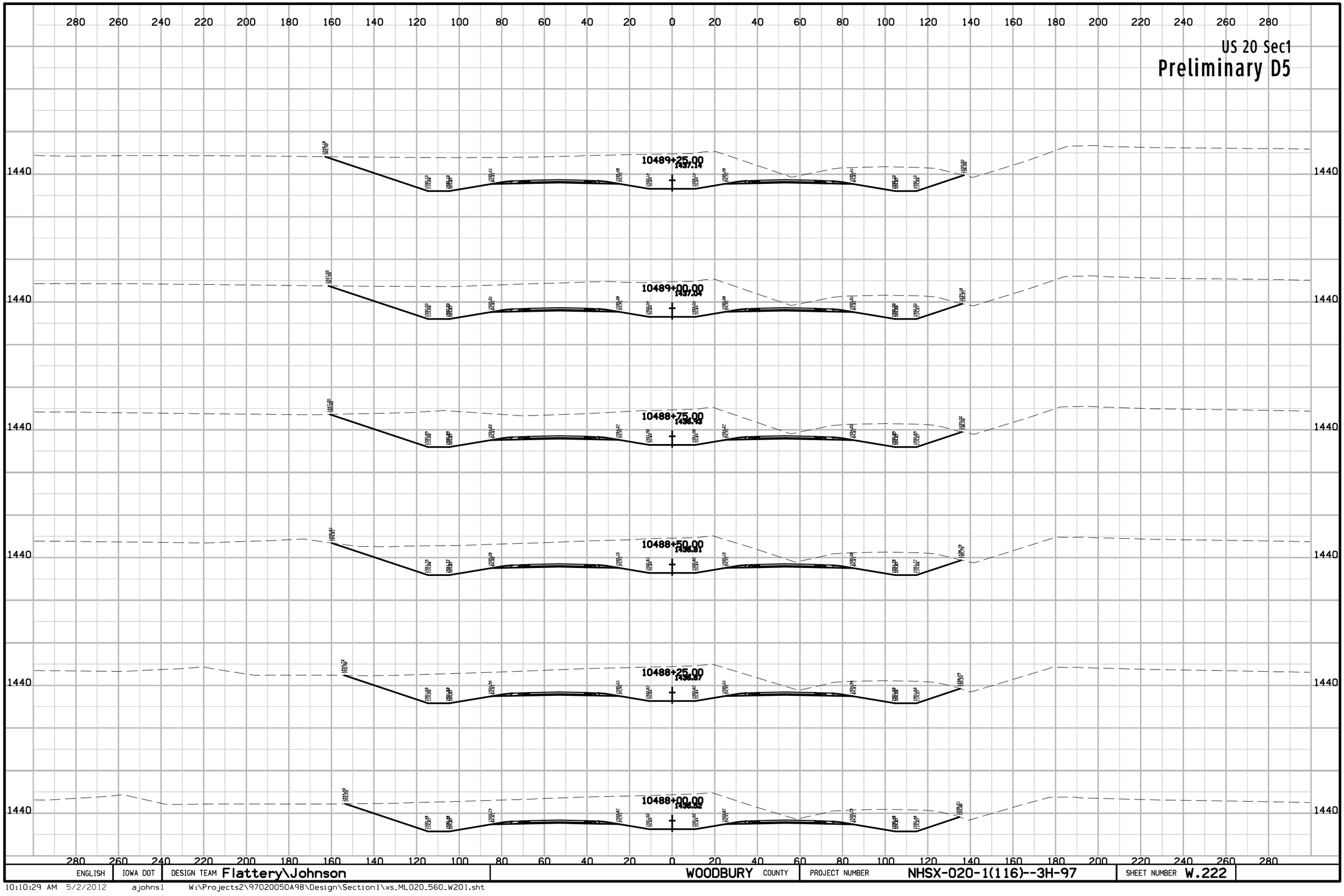
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.222

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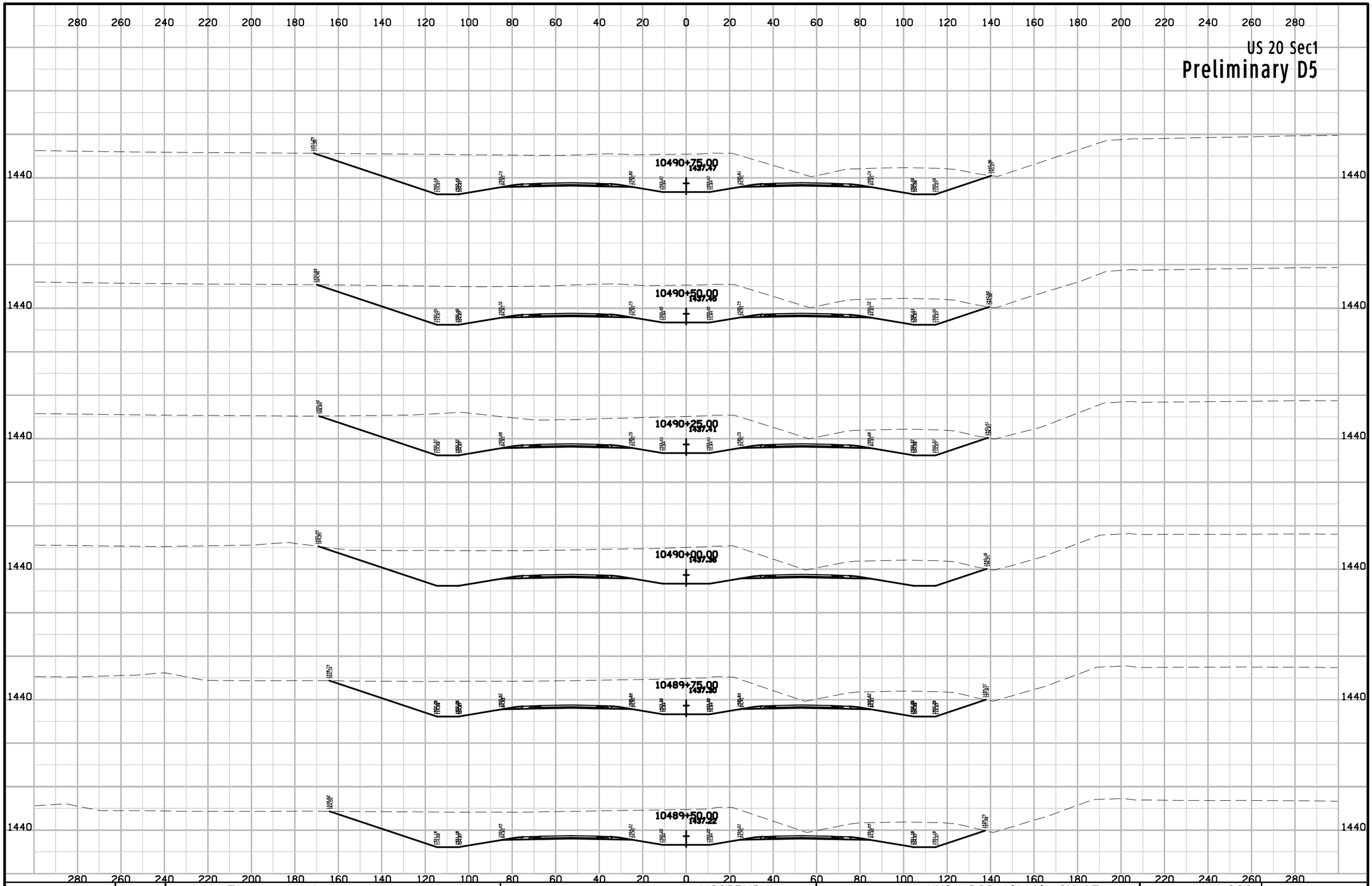
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.223

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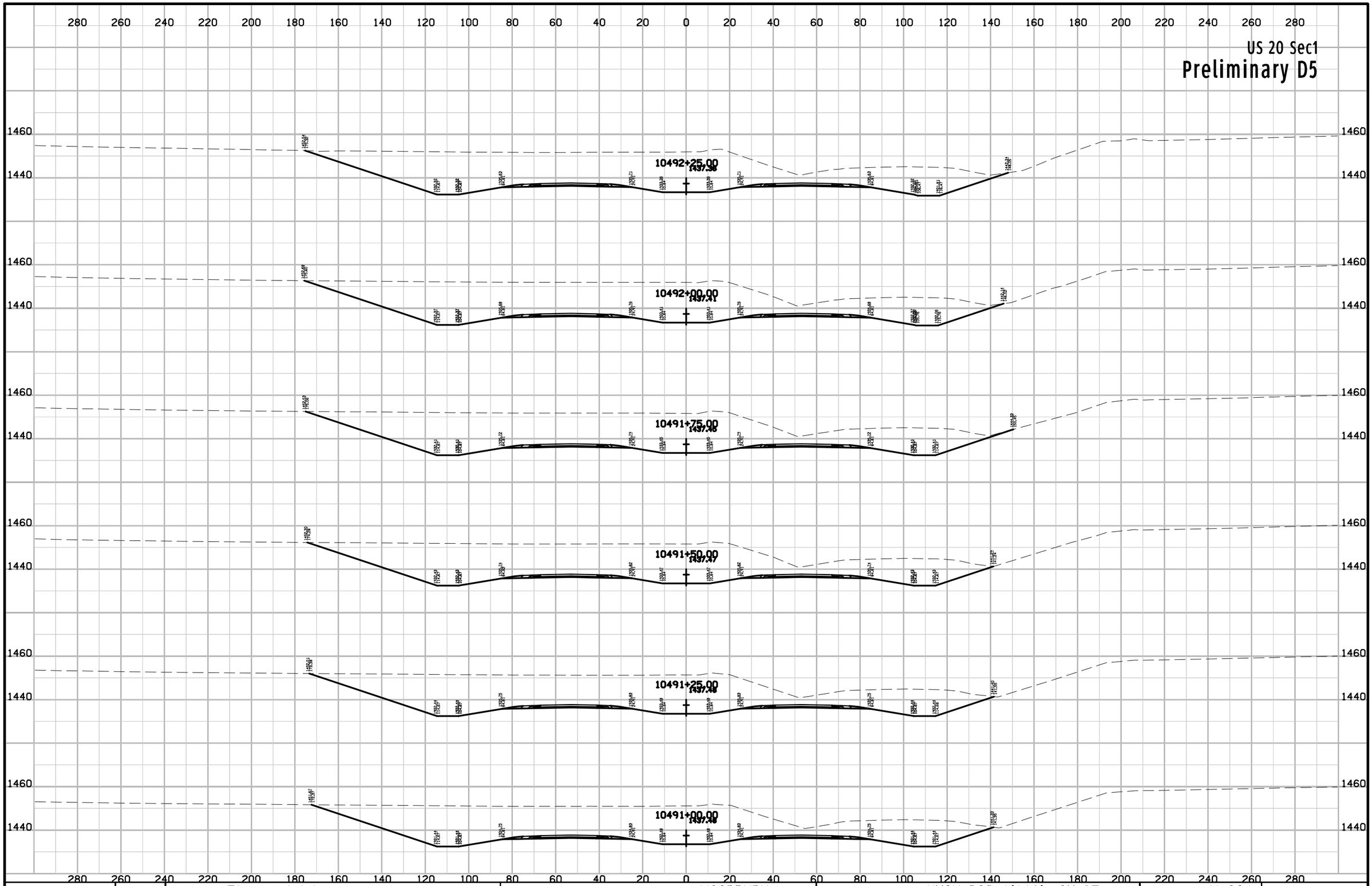
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.224

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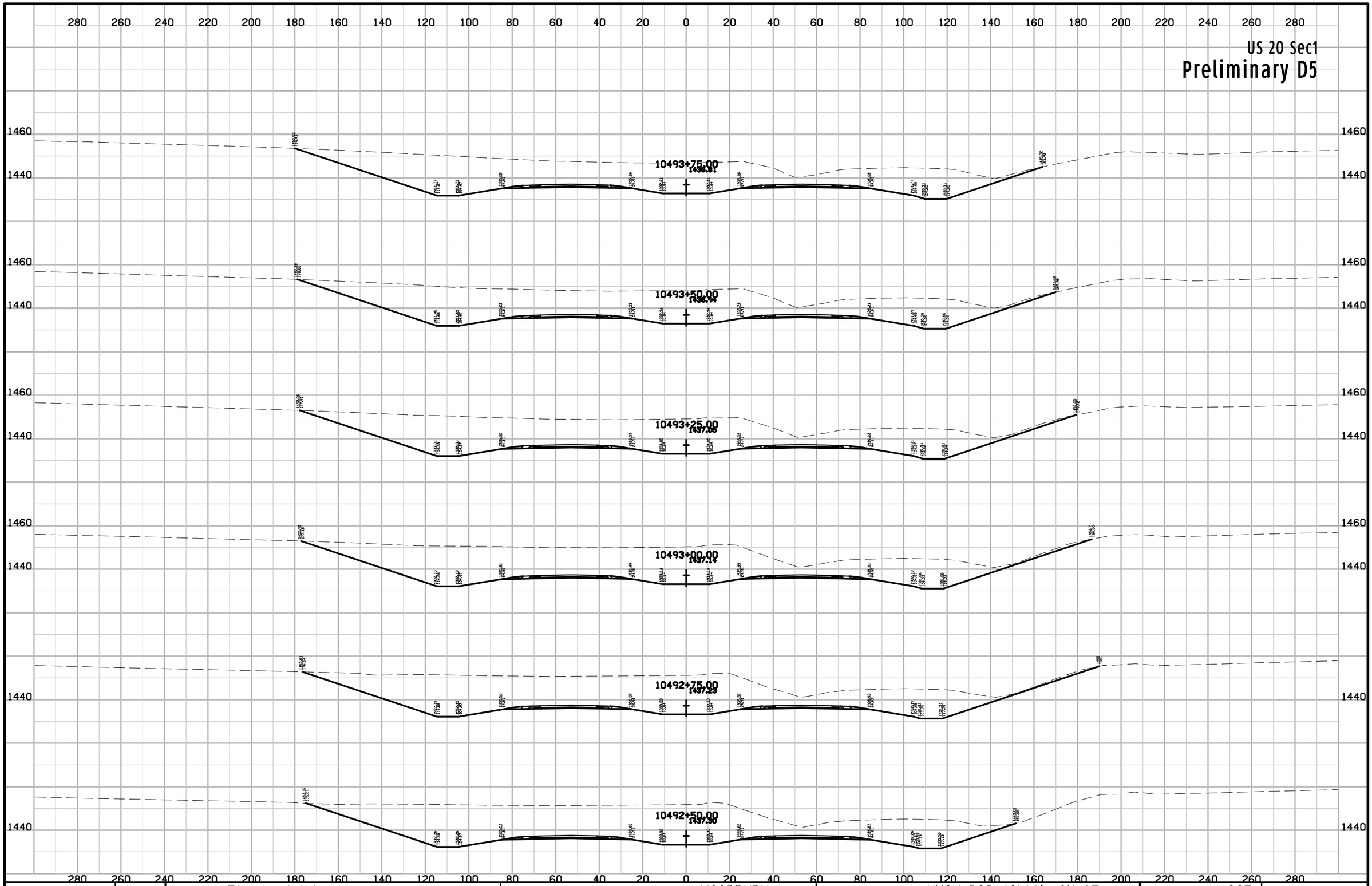
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.225

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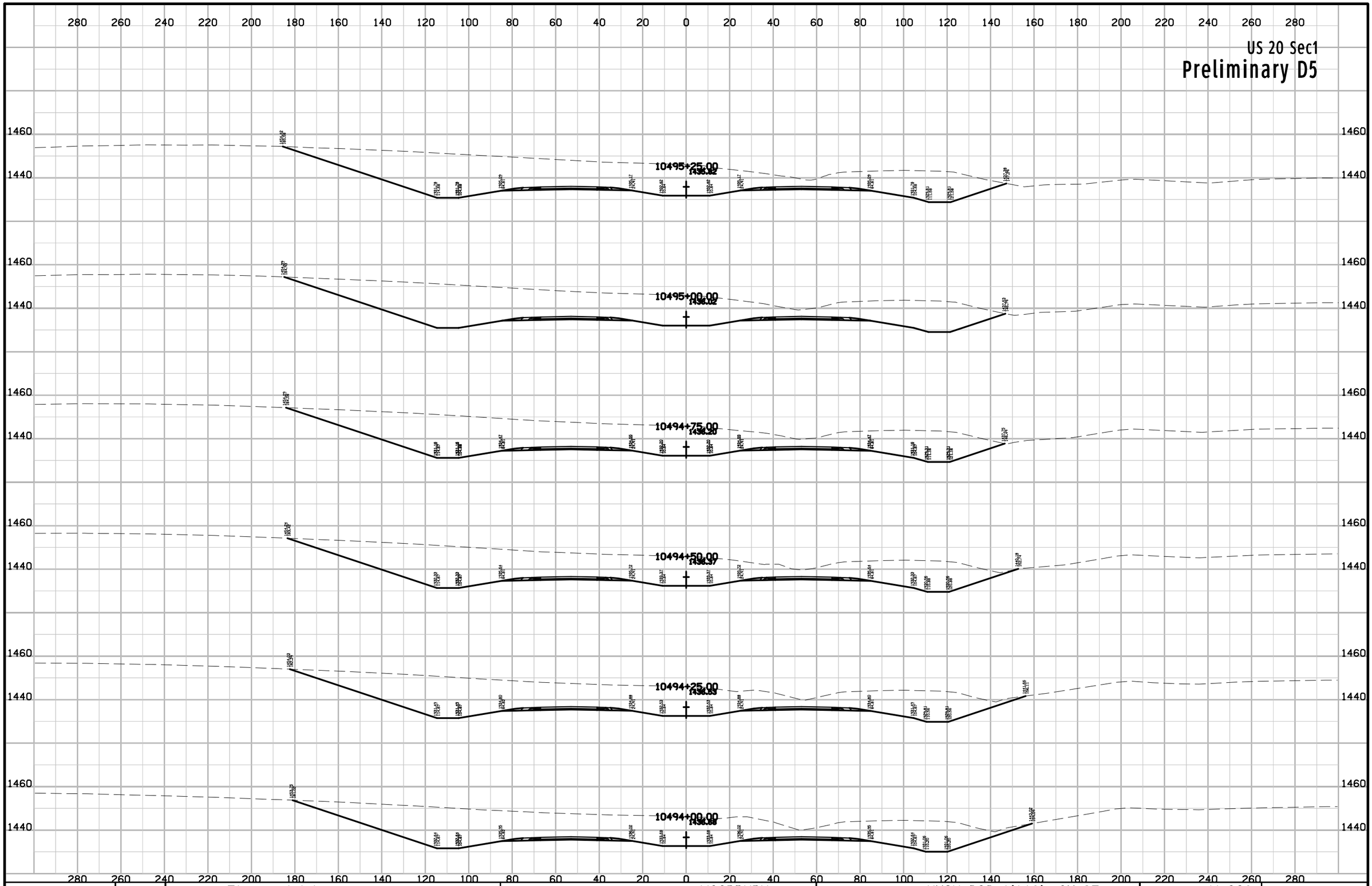
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.226

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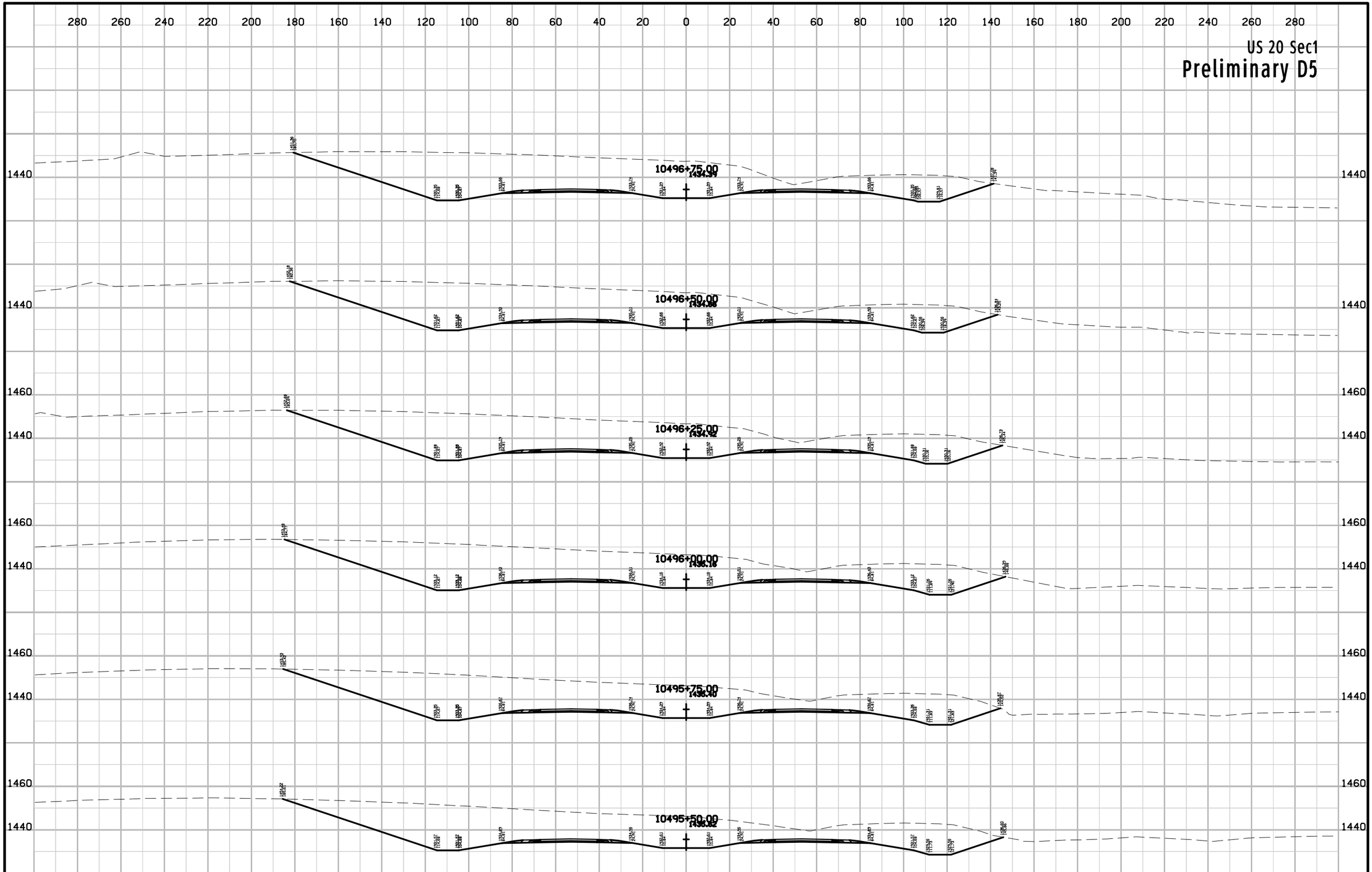

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.227

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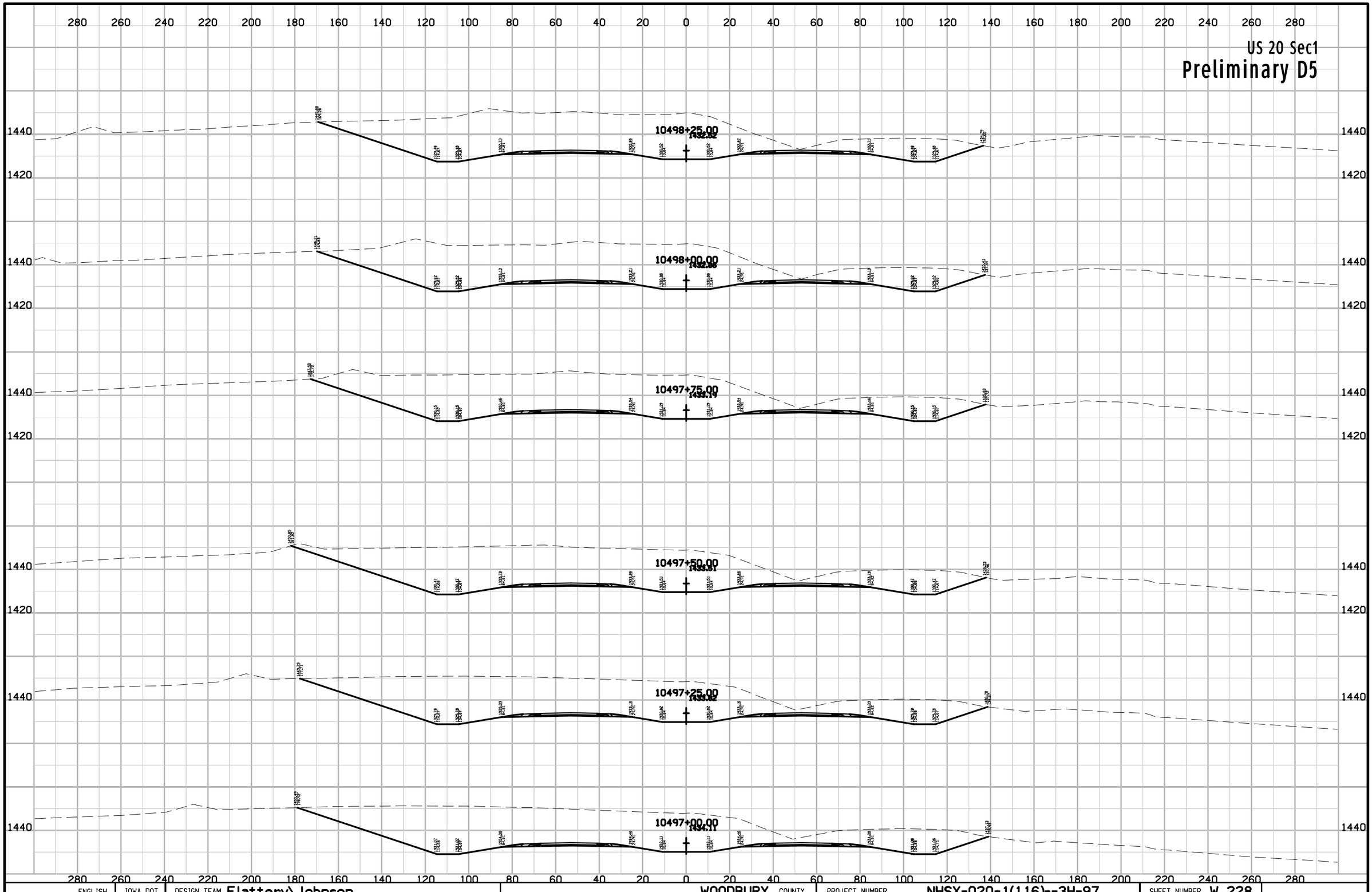
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.228

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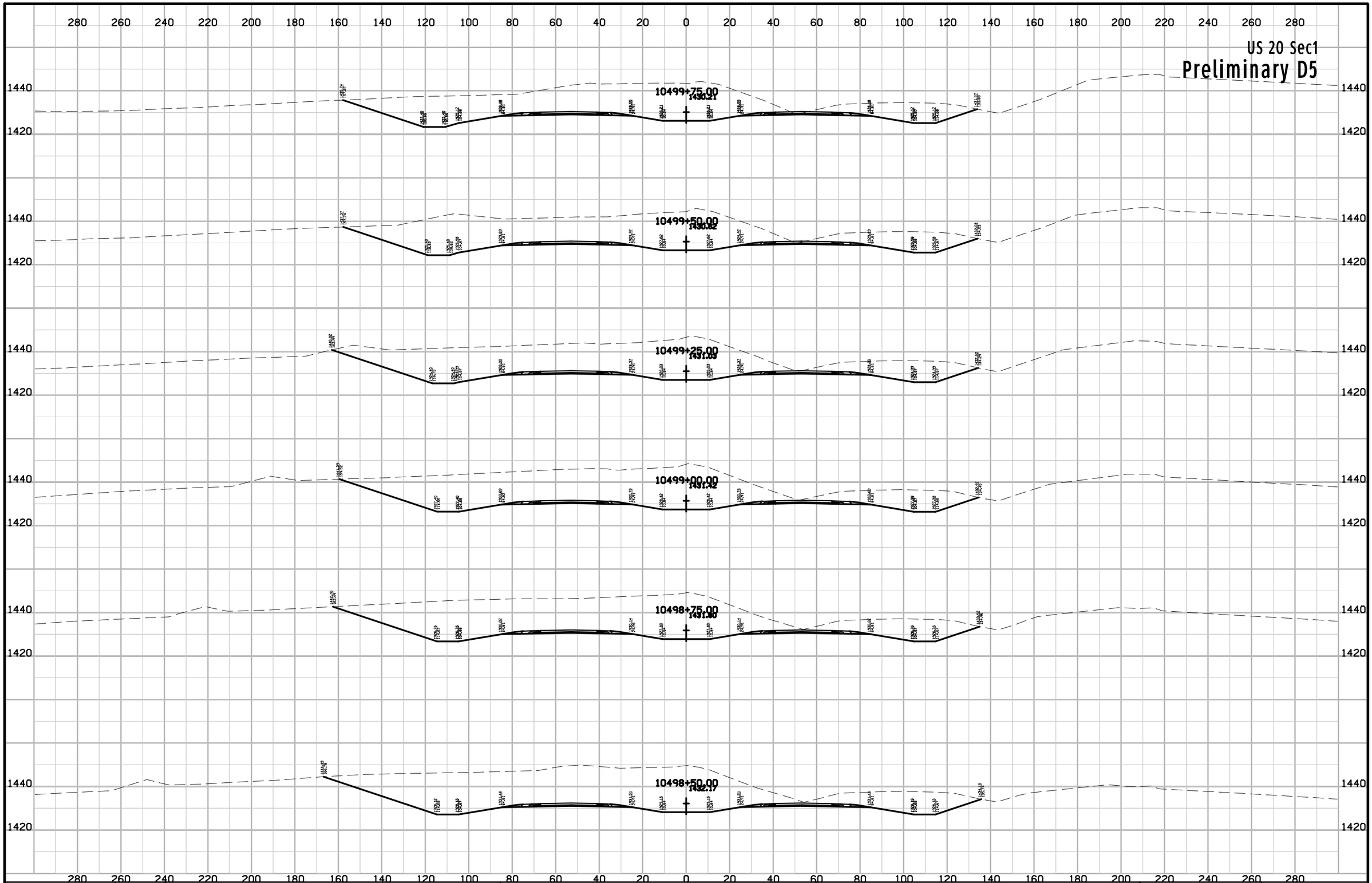
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.229

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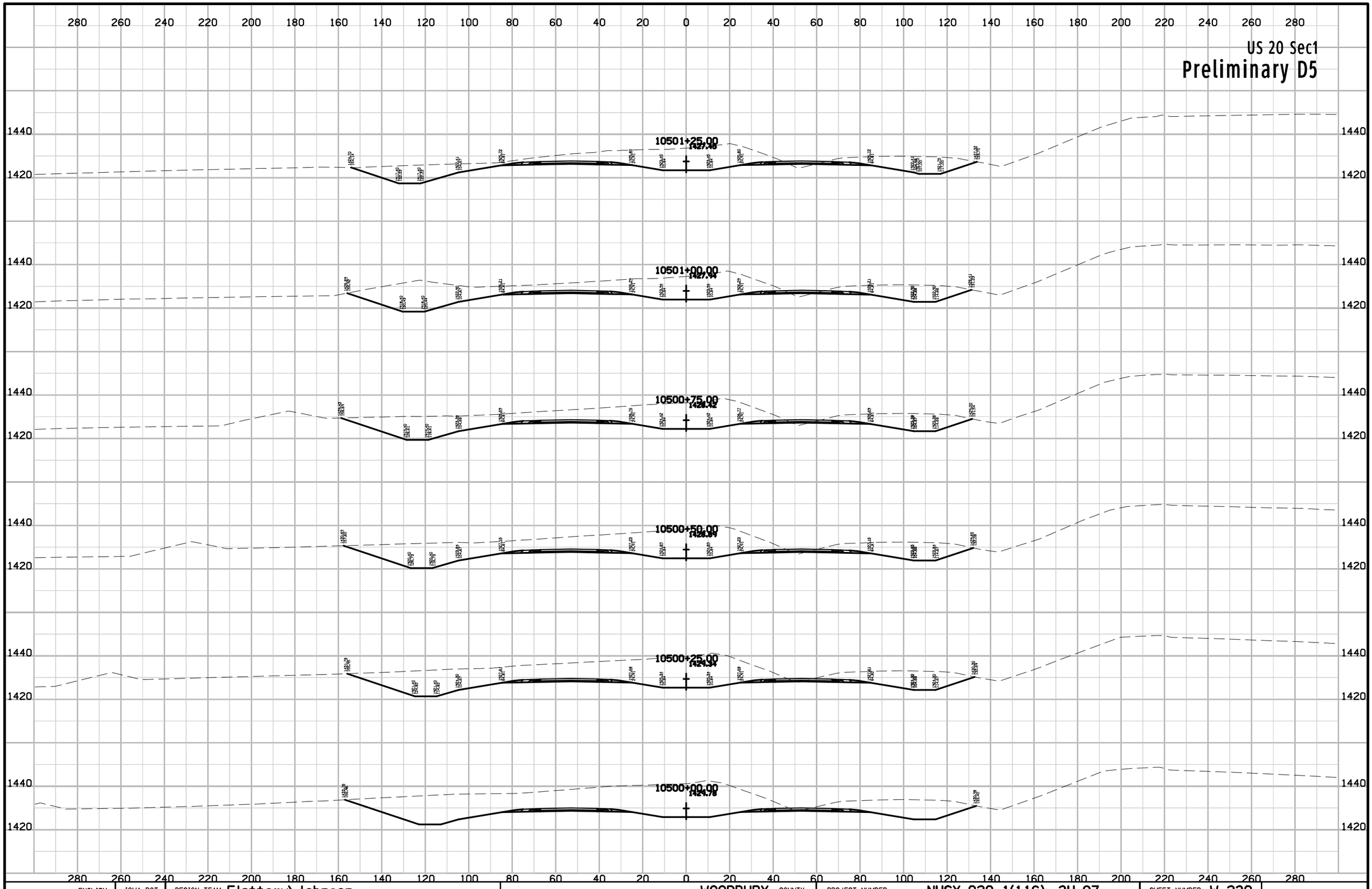
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.230

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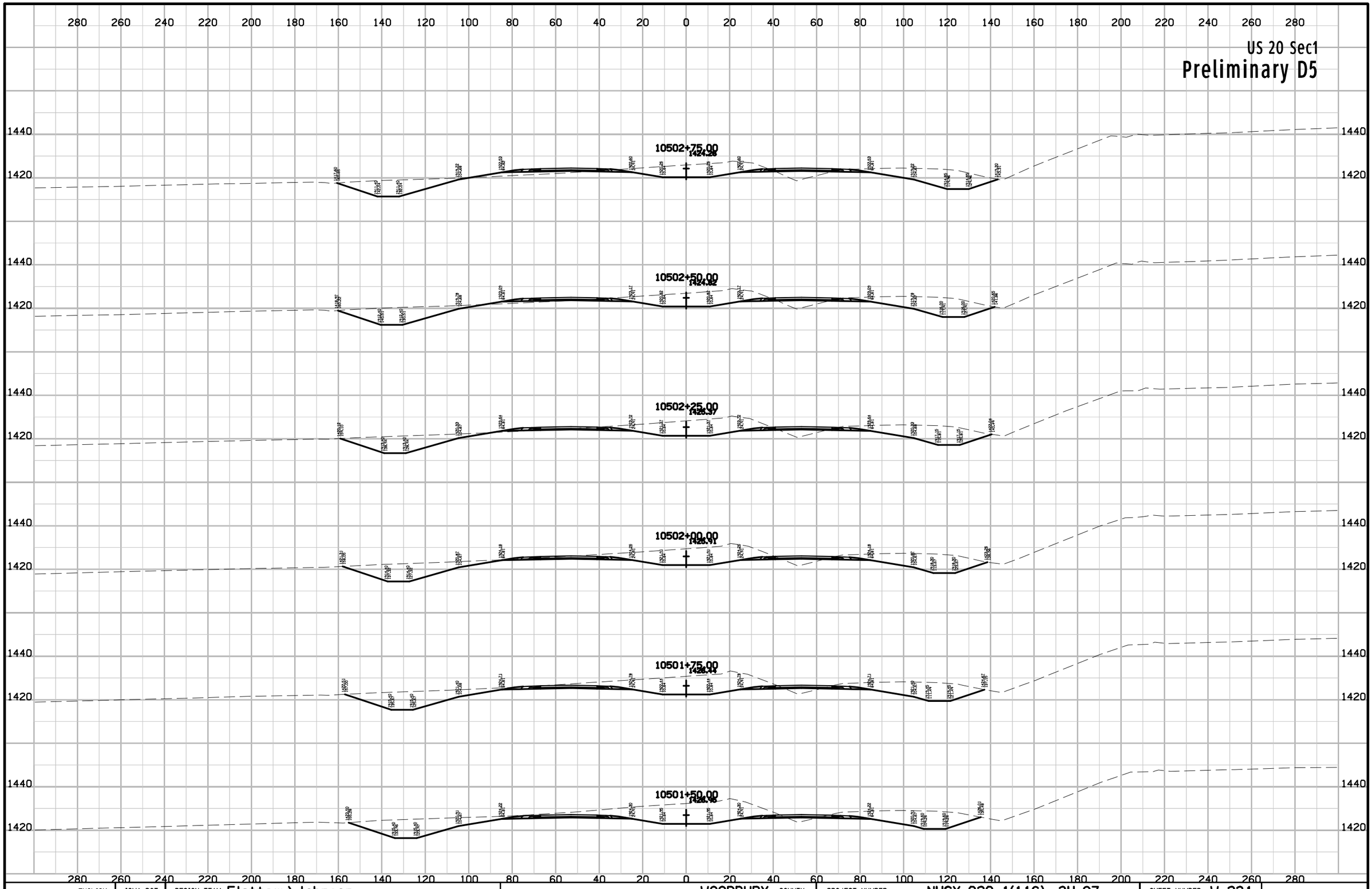
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.231

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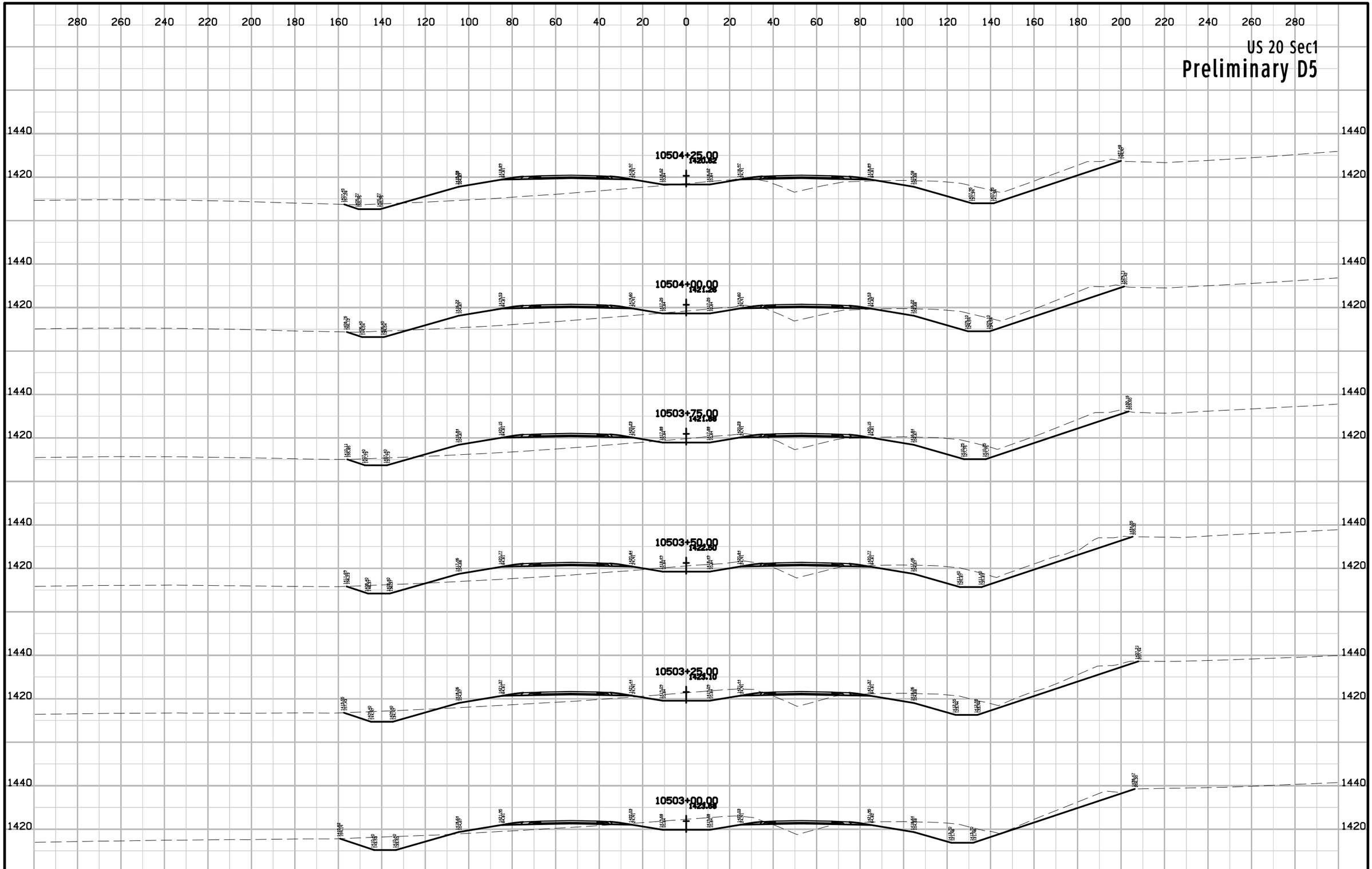
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.232

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US 20 Sec1

Preliminary D5

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1420

1400

10505+75.00
1416.88

10505+50.00
1417.28

10505+25.00
1417.98

10505+00.00
1418.34

10504+75.00
1419.31

10504+50.00
1419.97

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.233

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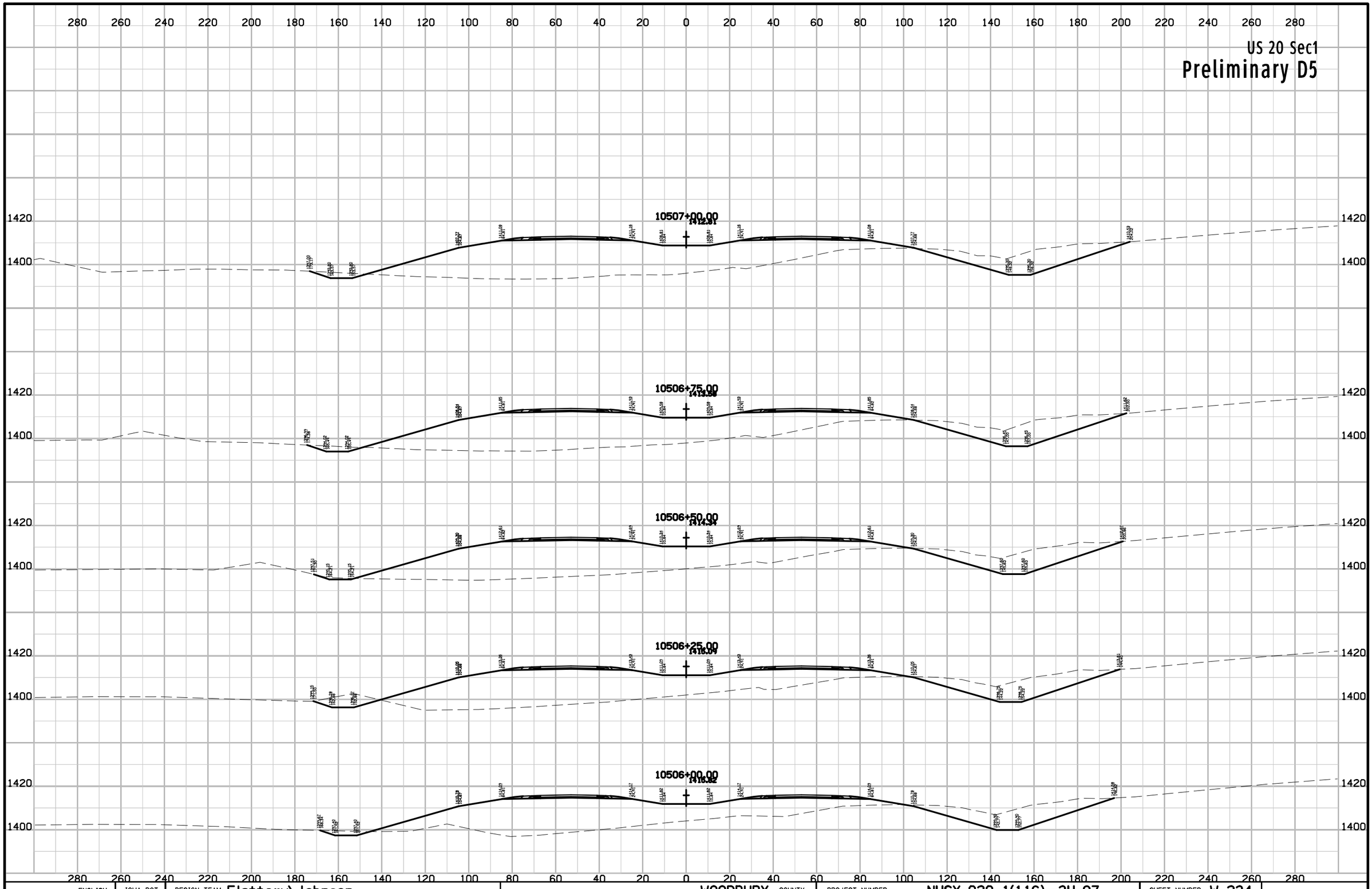
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.234

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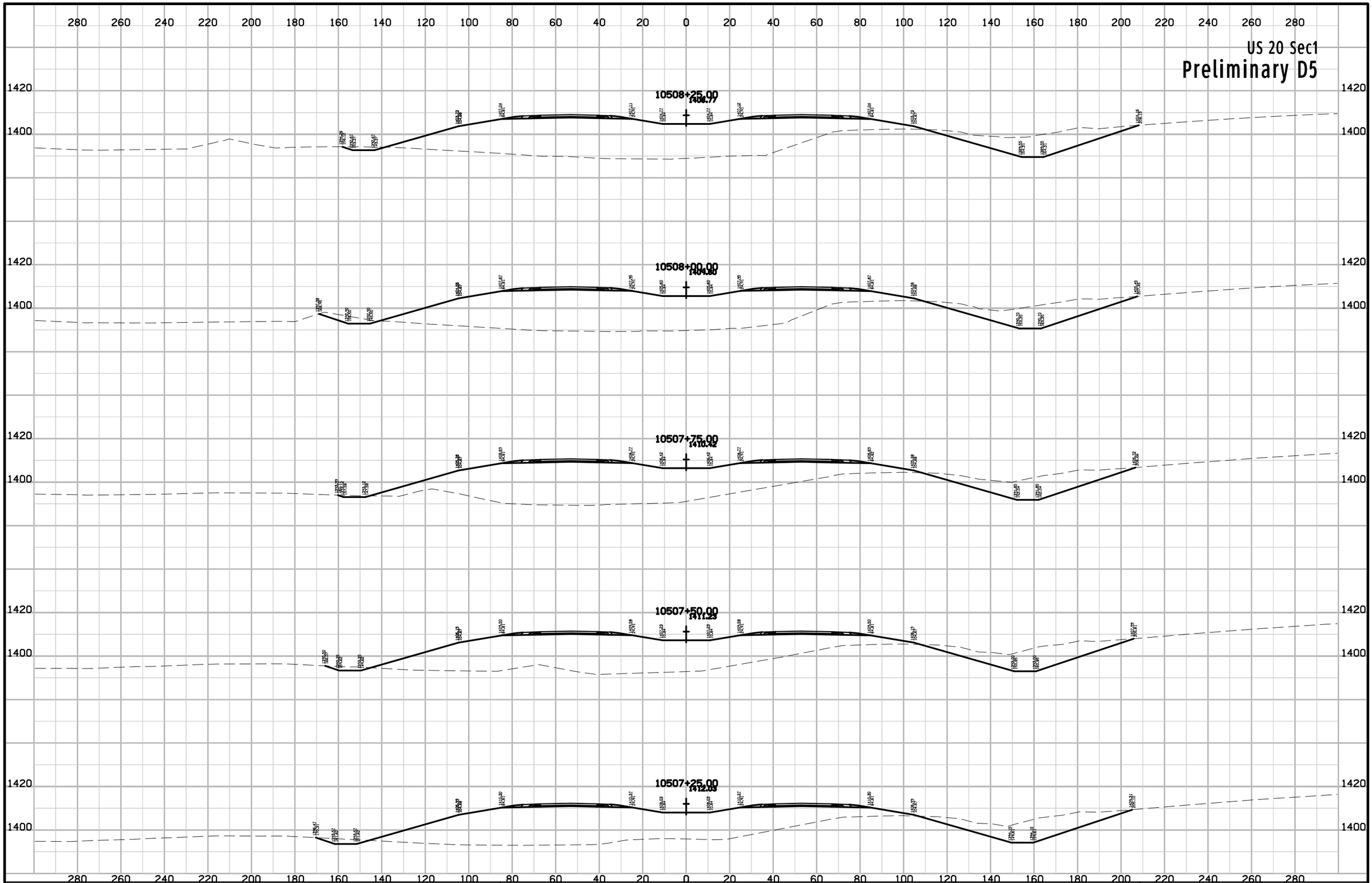
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.235

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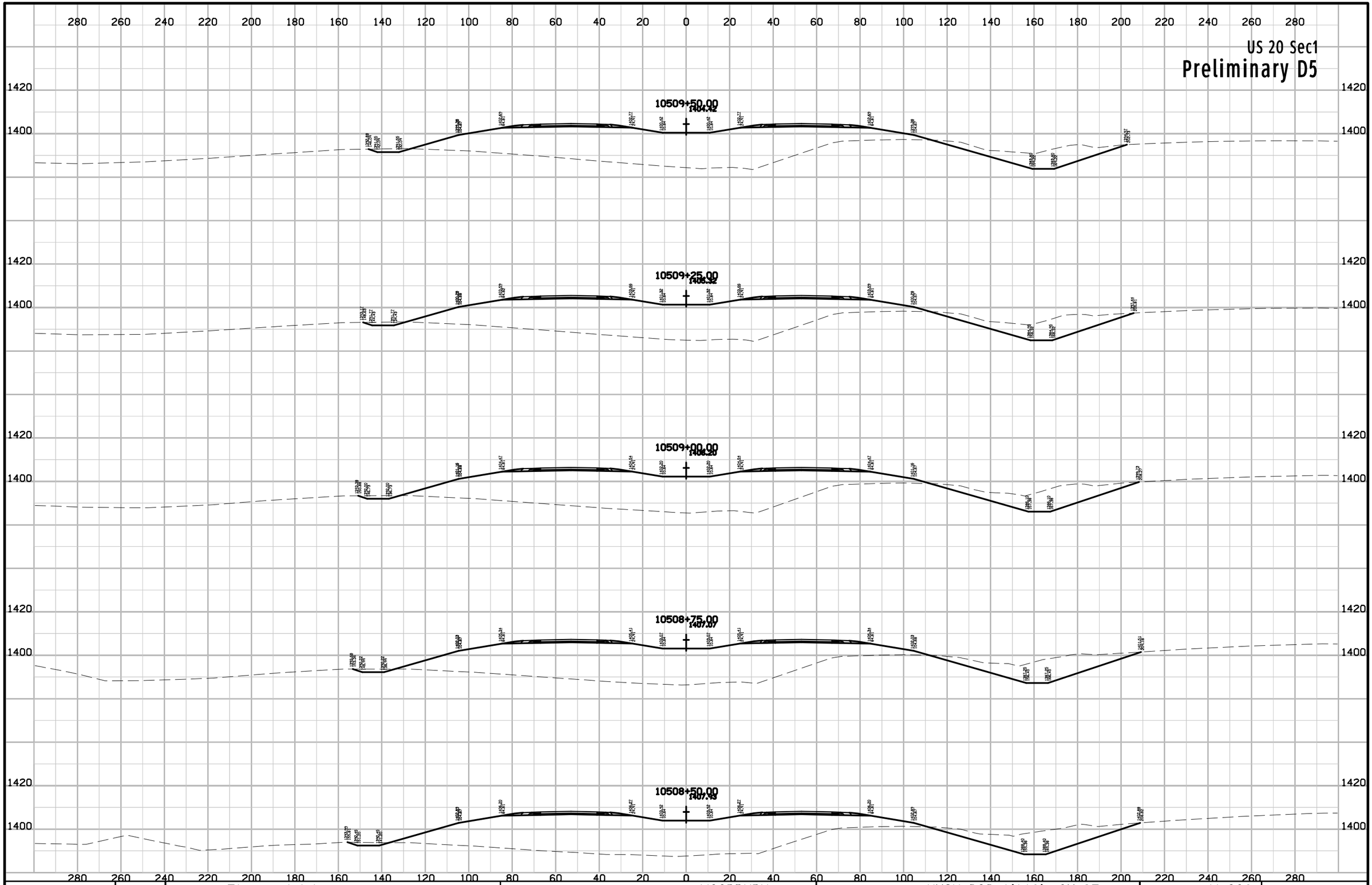
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.236

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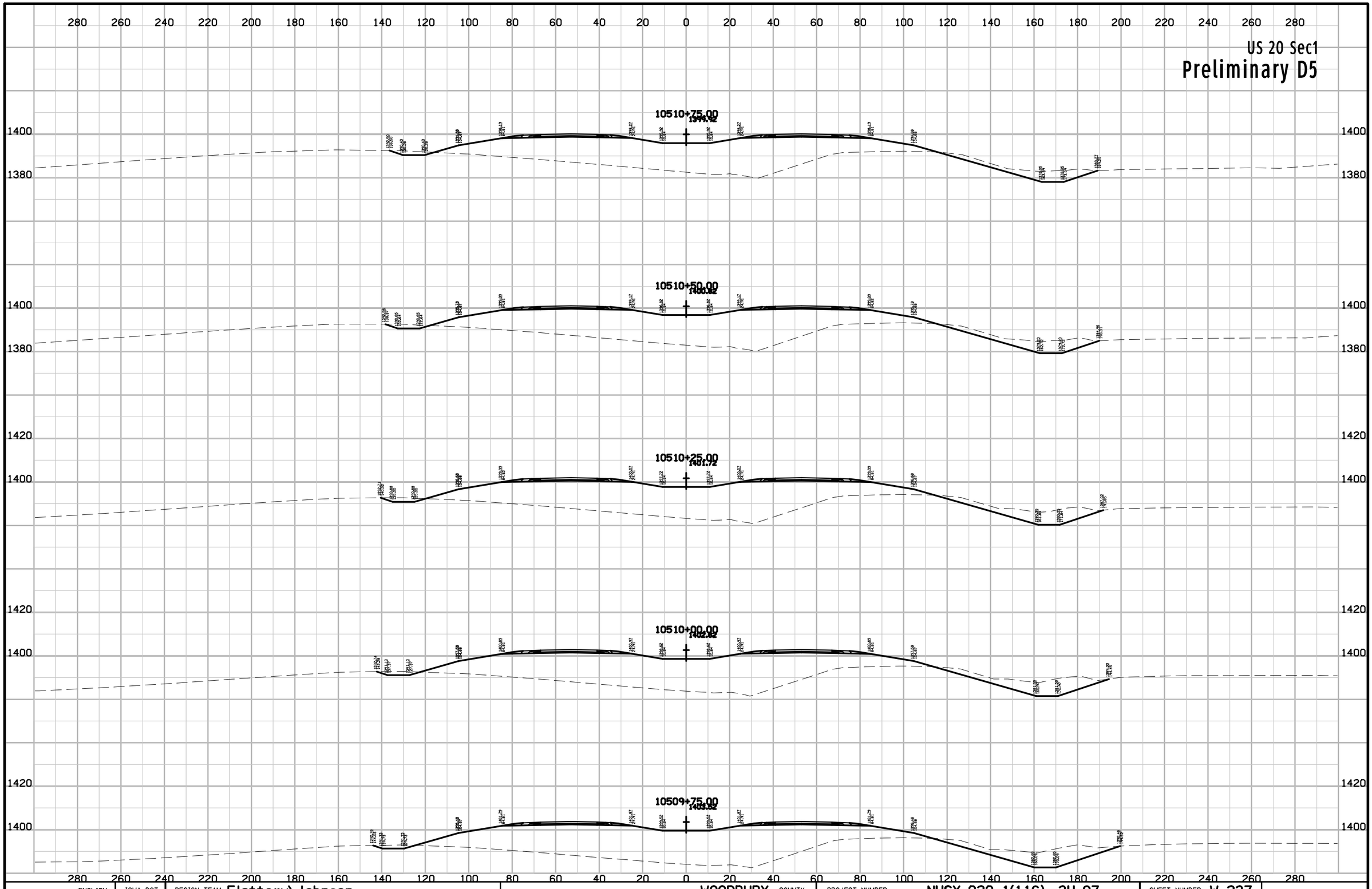
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.237

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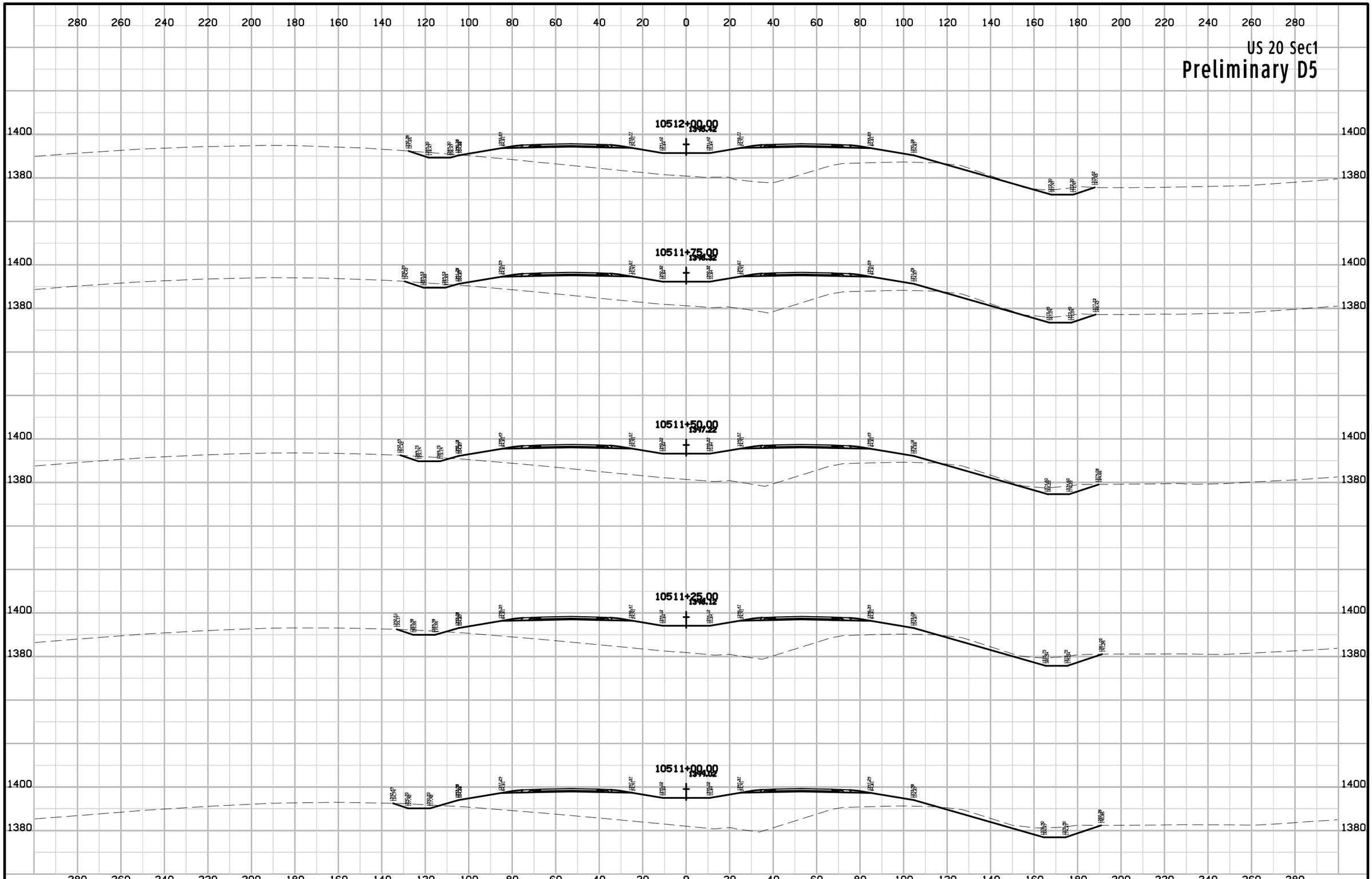
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.238

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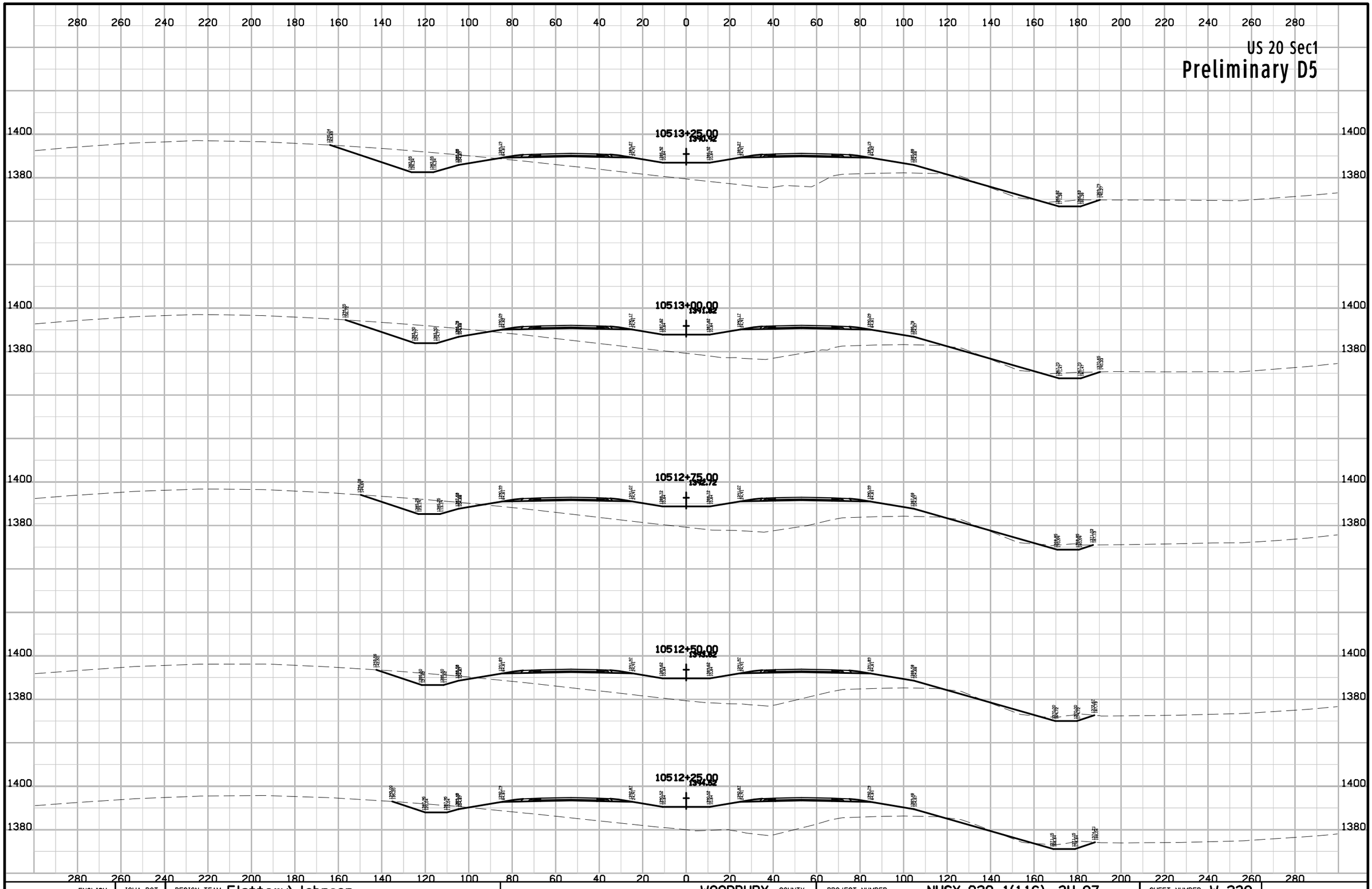
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.239

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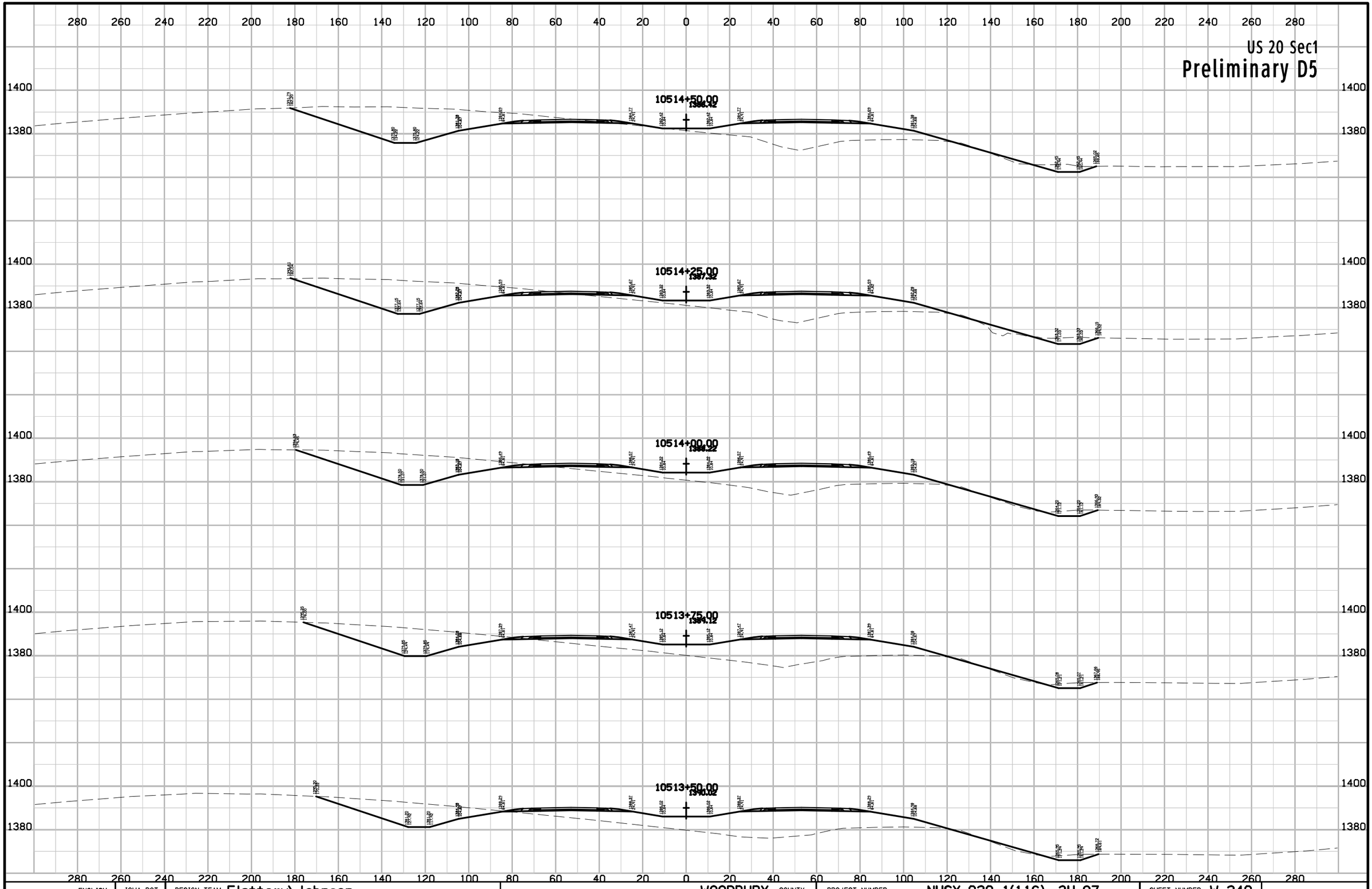
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.240

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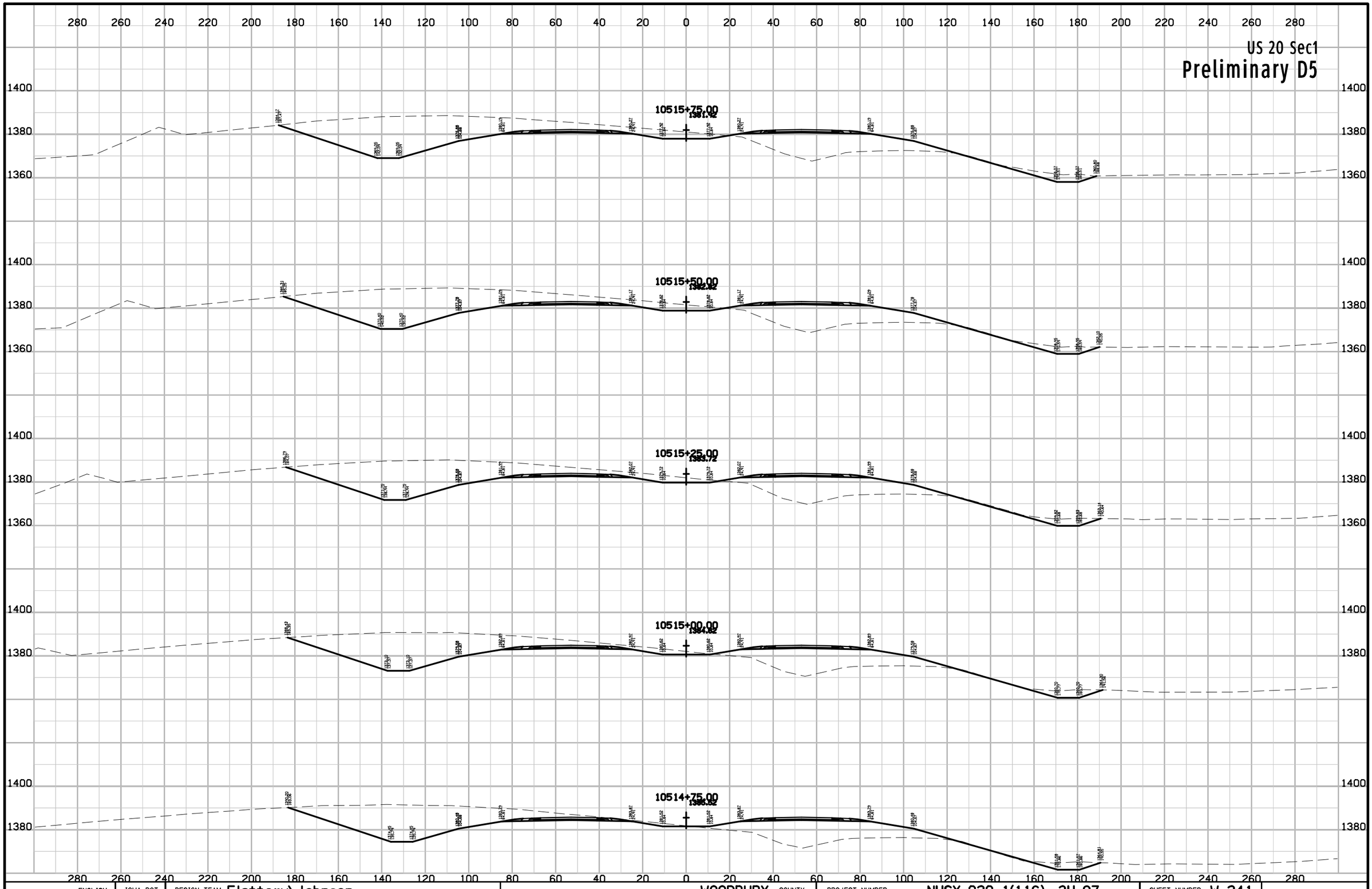
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.241

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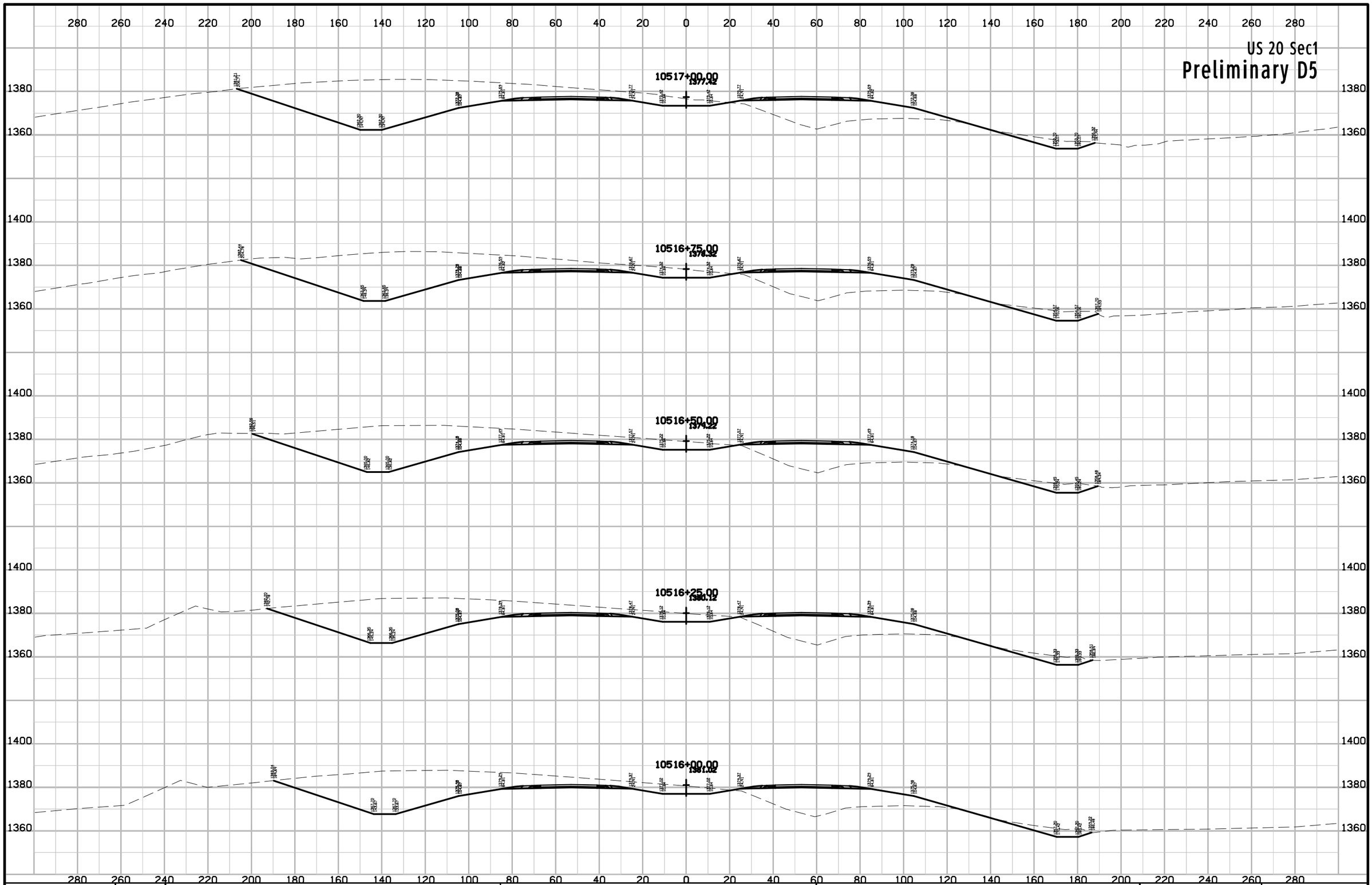
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.242

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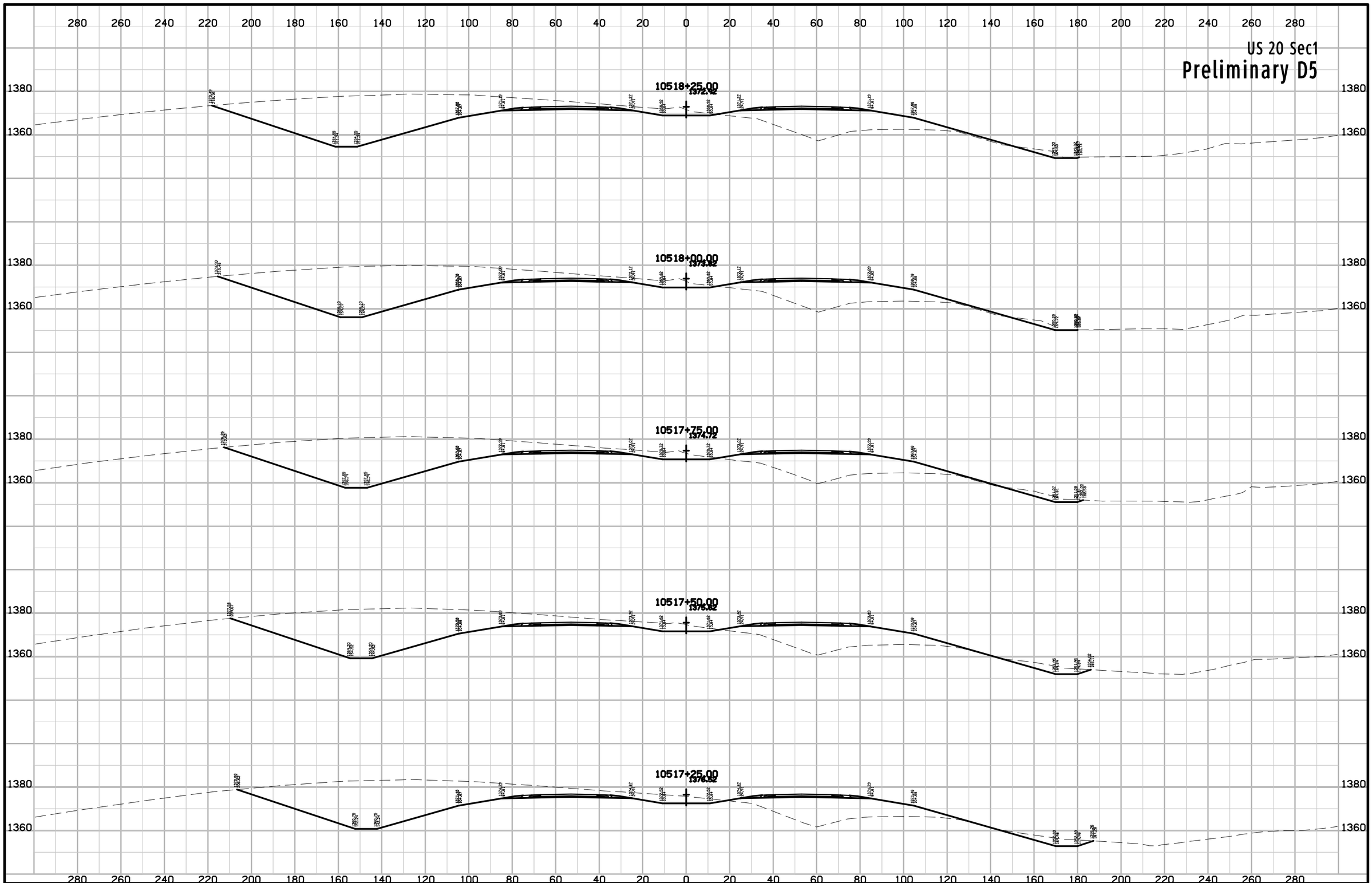
US 20 Sec1

Preliminary D5



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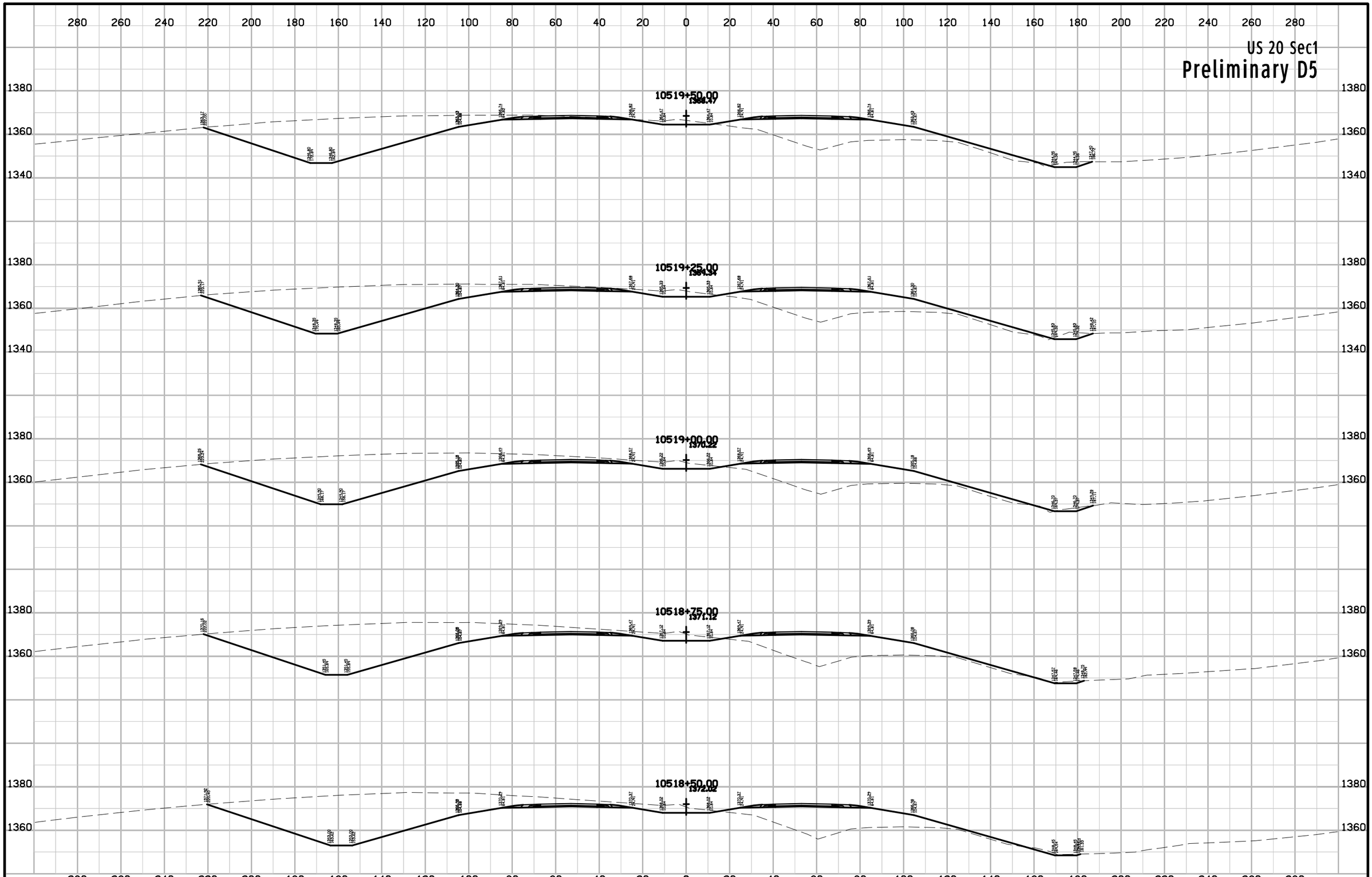
US 20 Sec1

Preliminary D5



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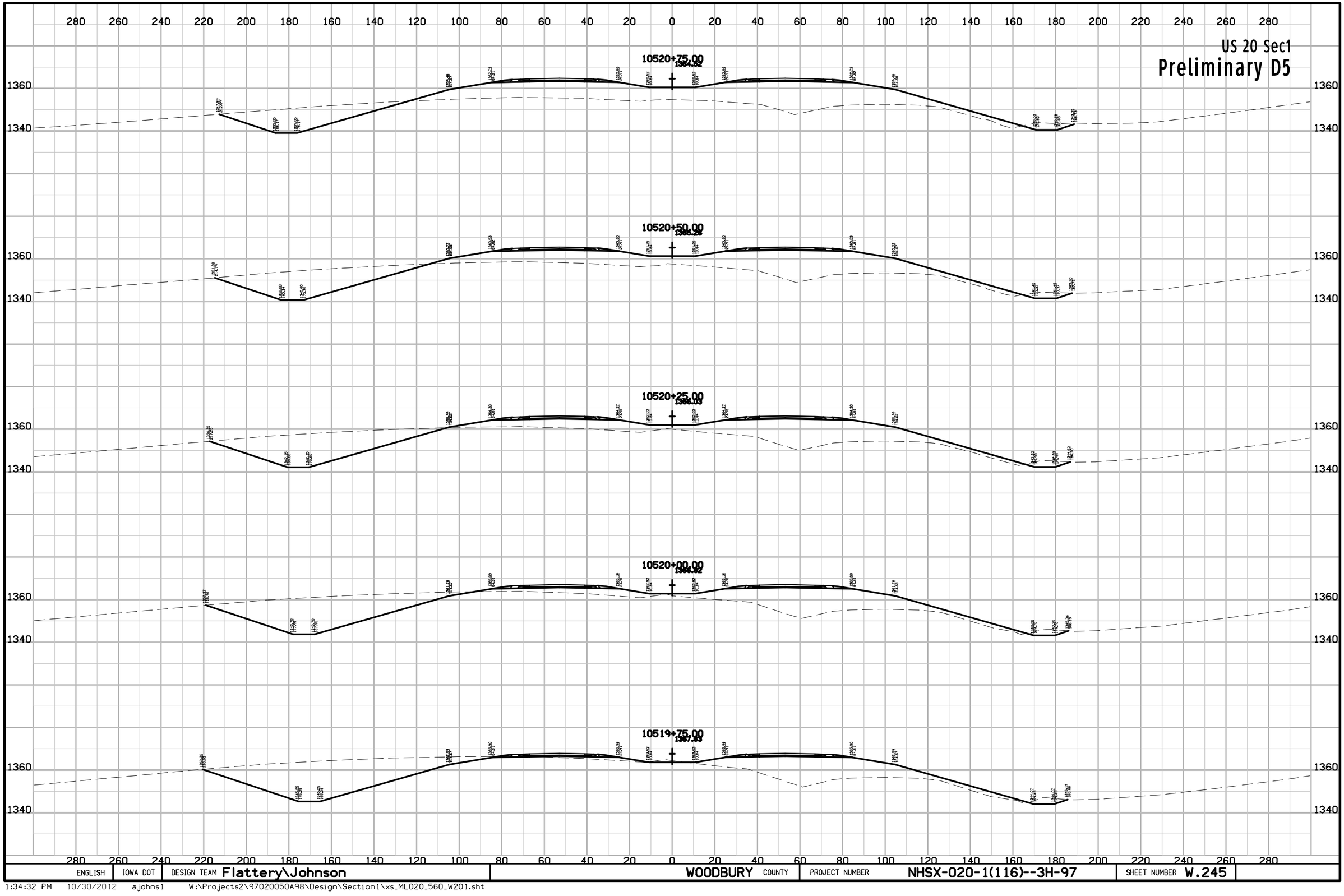
US 20 Sec1

Preliminary D5



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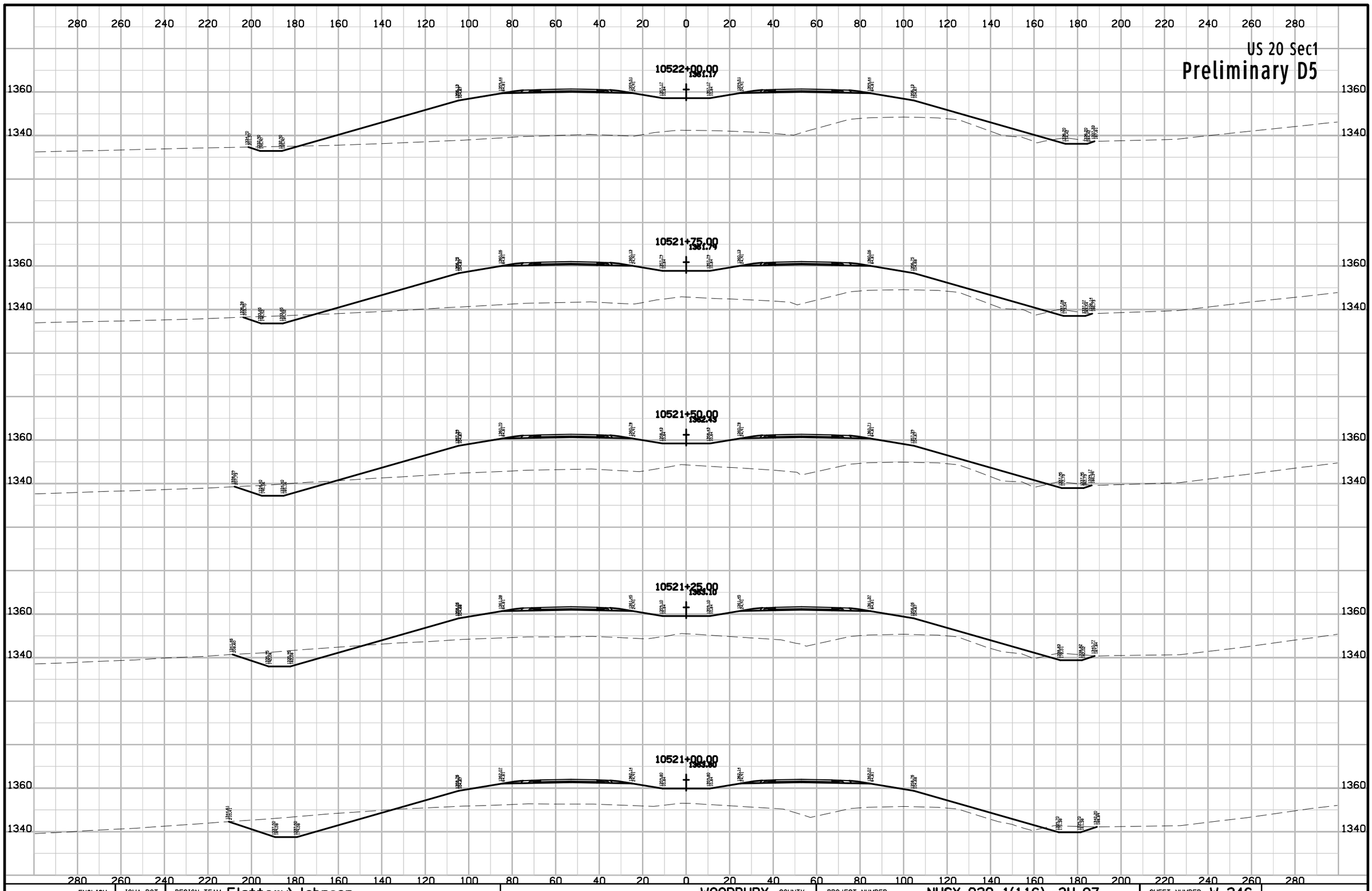
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.246

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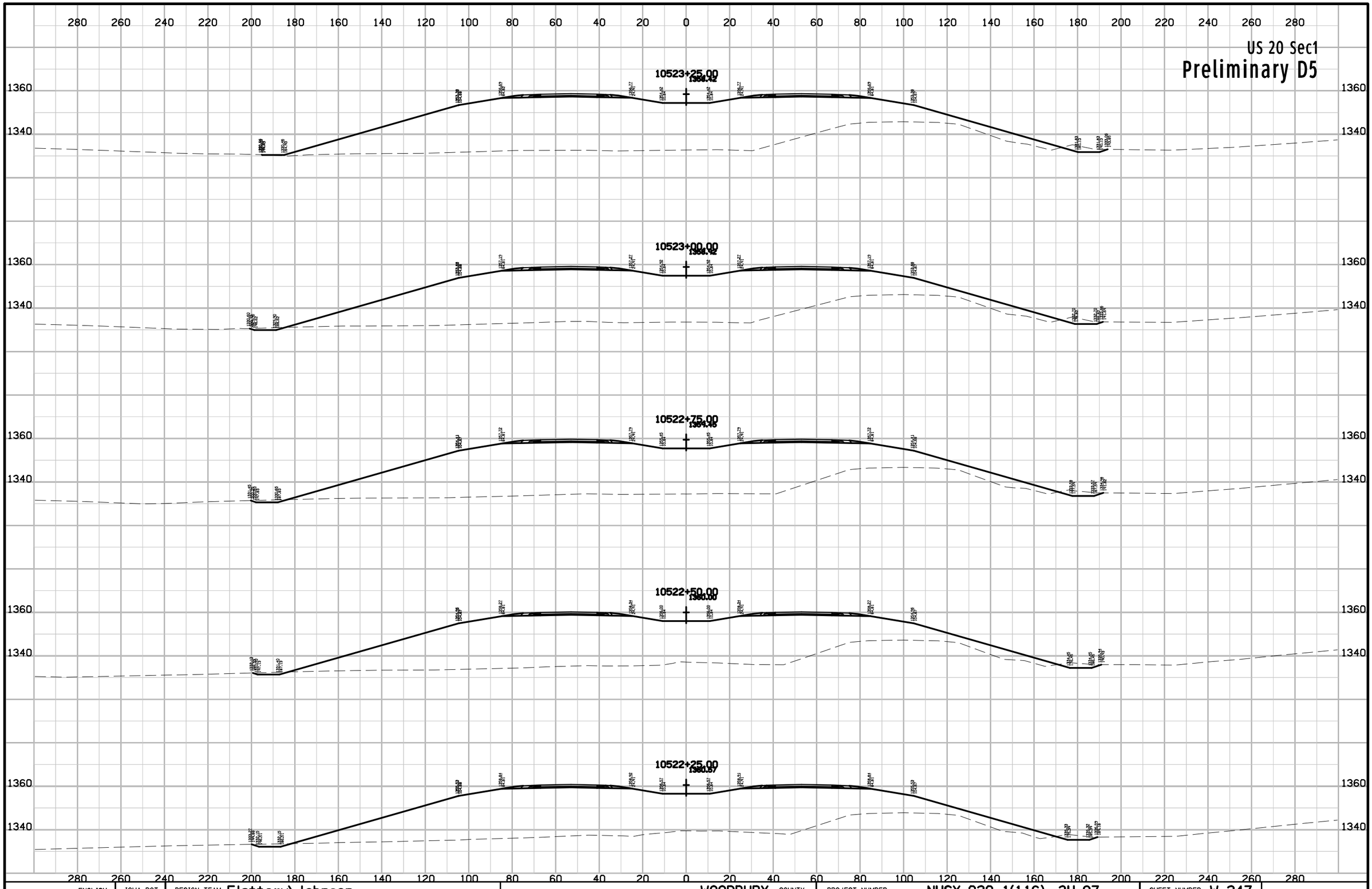
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.247

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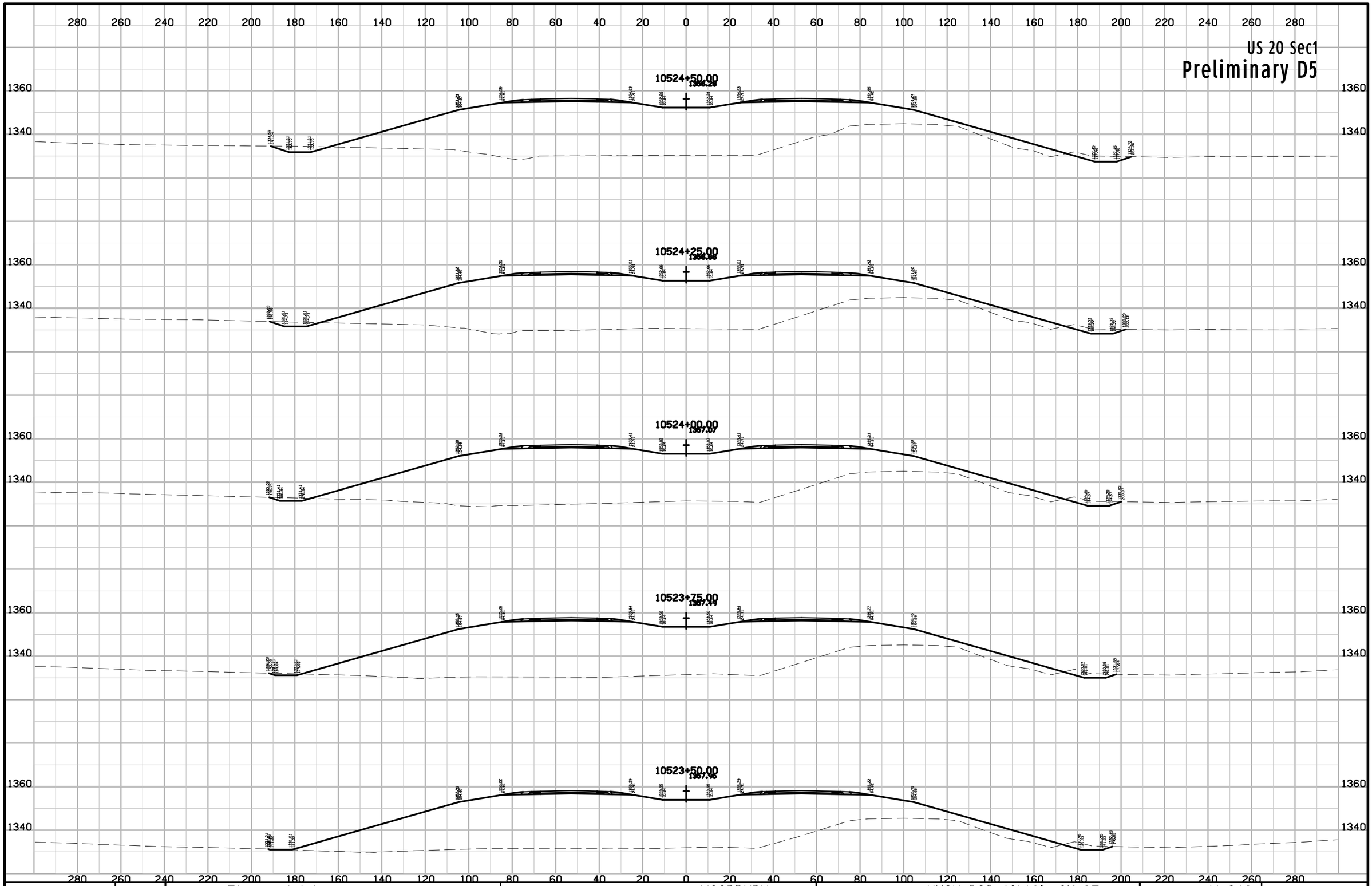
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.248	

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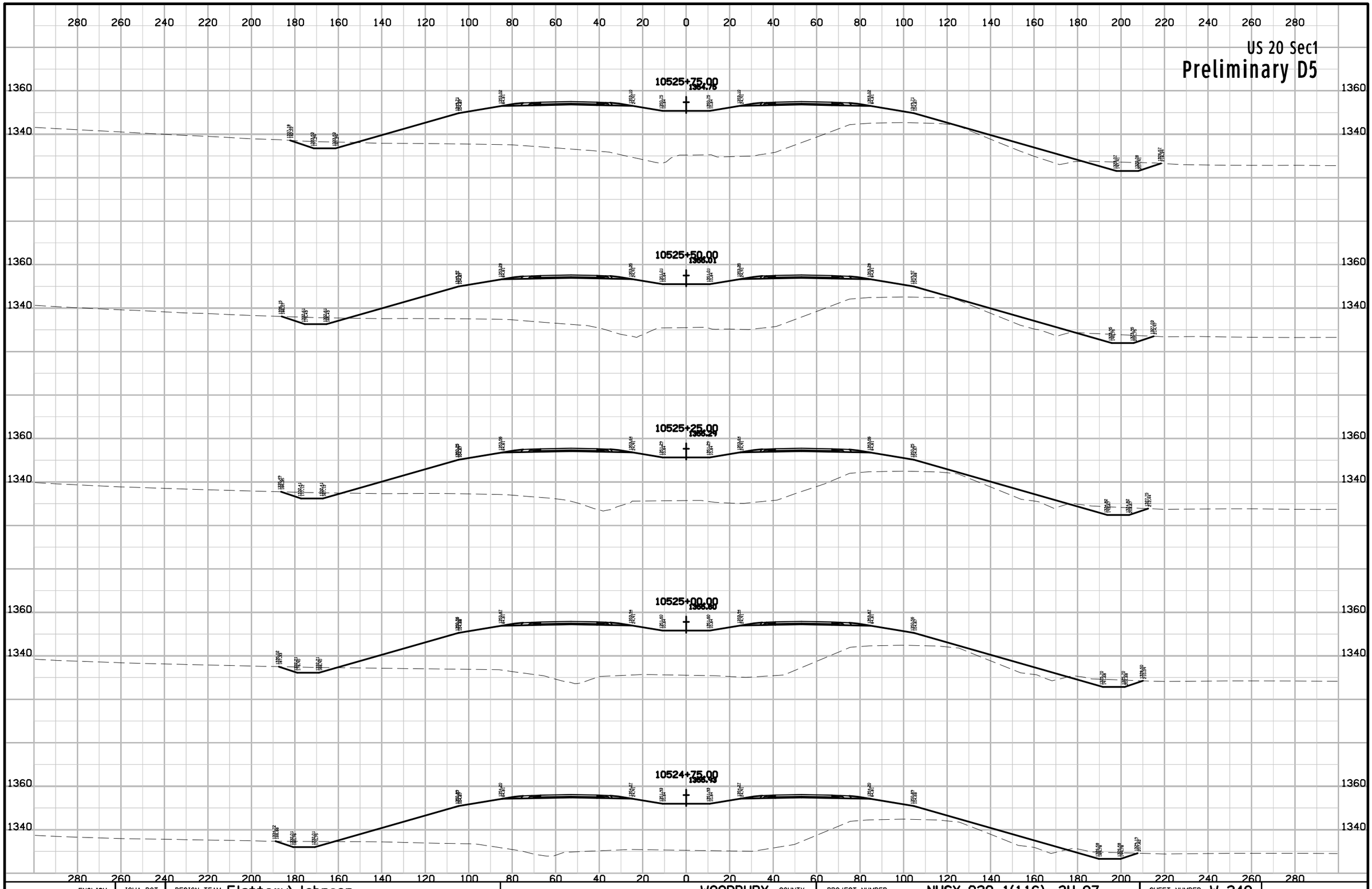
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.249

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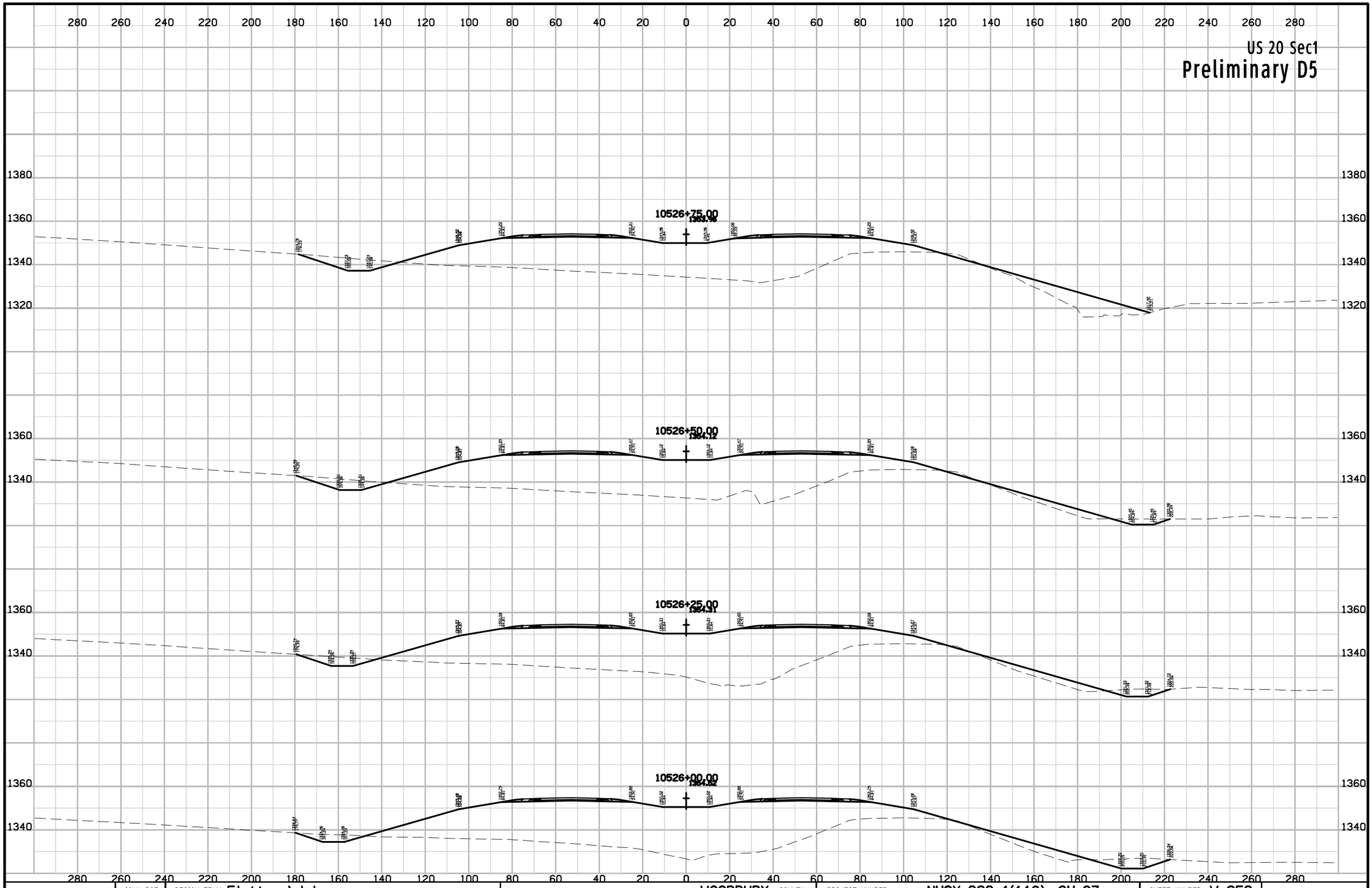
US 20 Sec1

Preliminary D5



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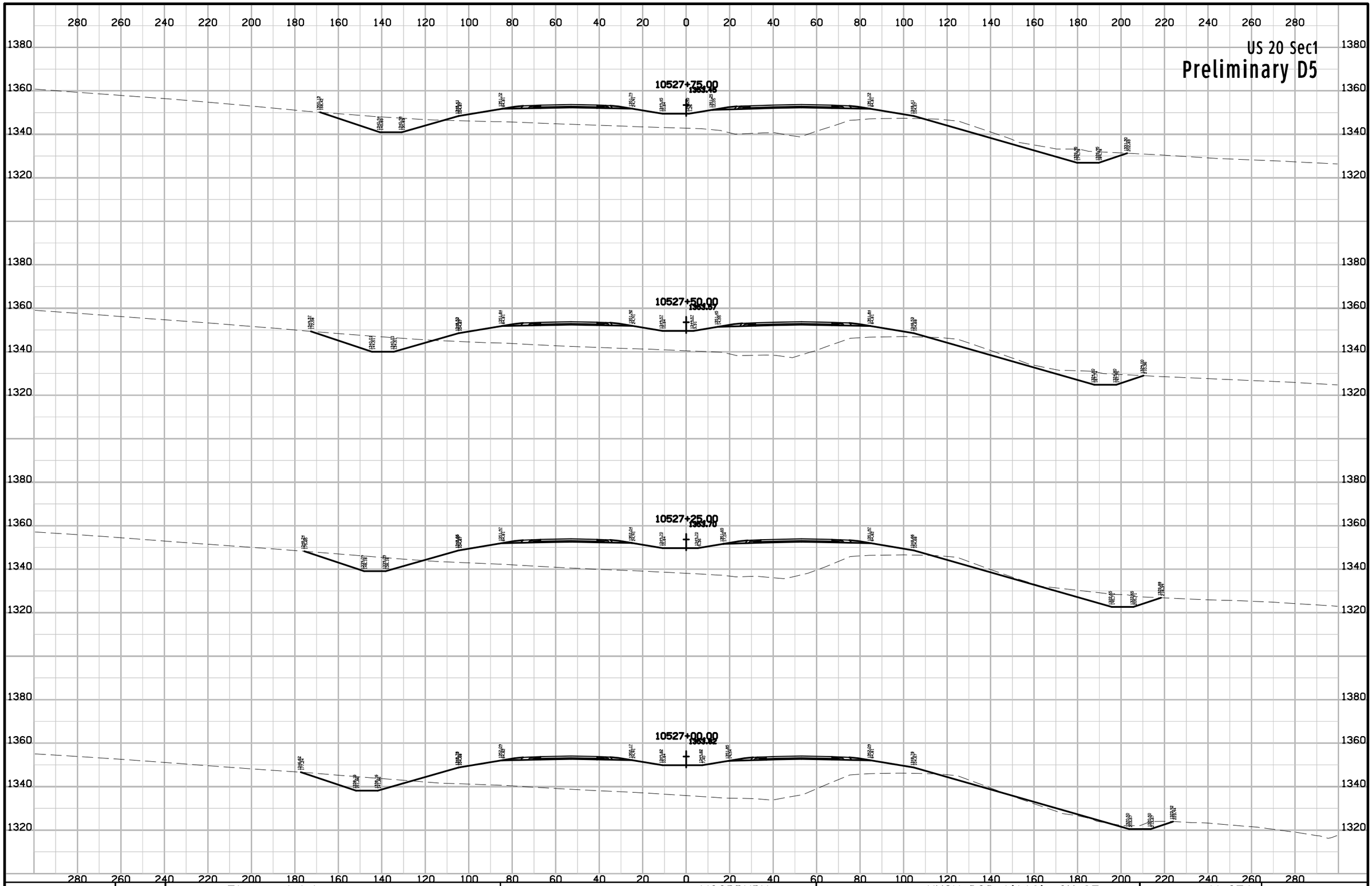
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.251

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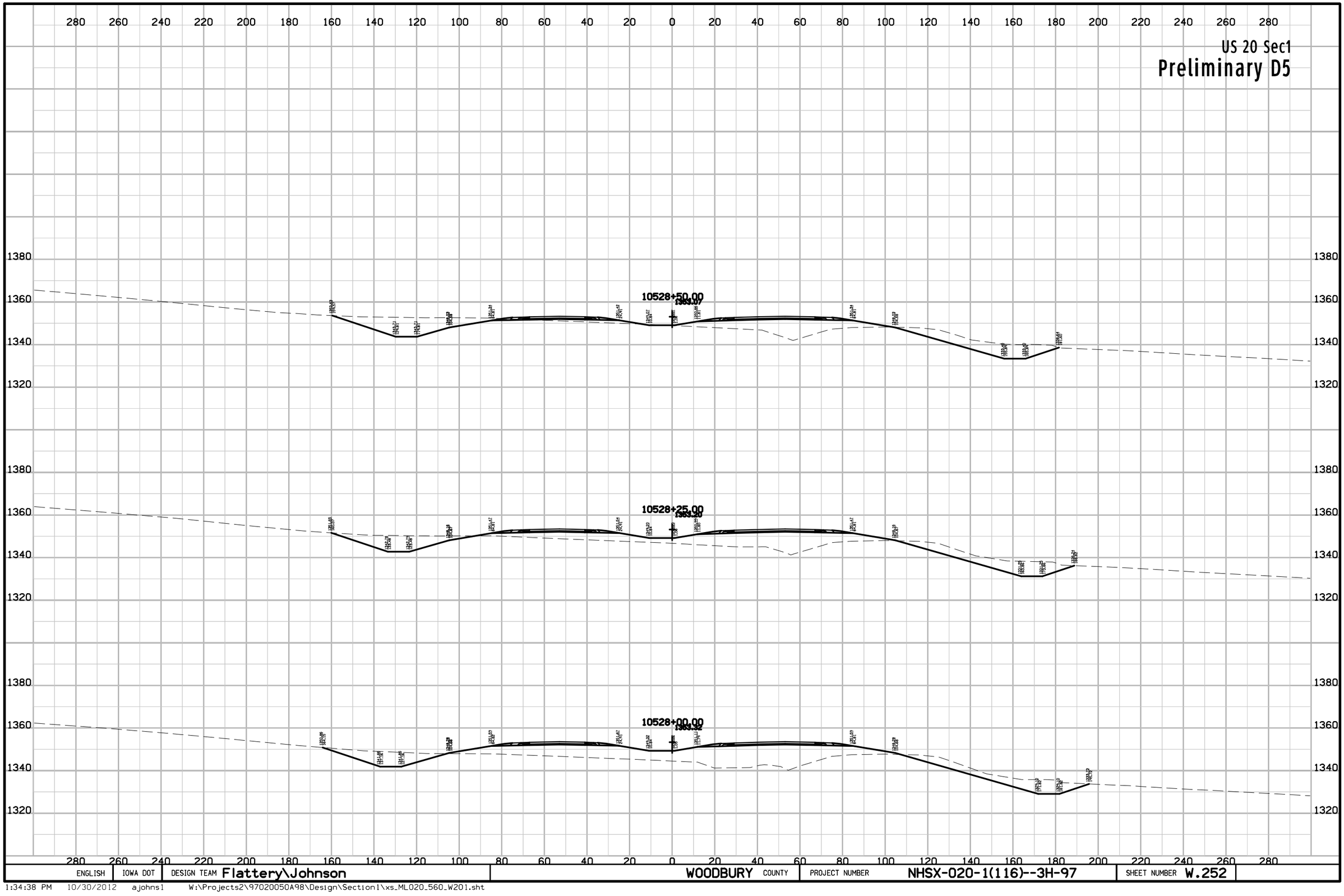
US 20 Sec1

Preliminary D5



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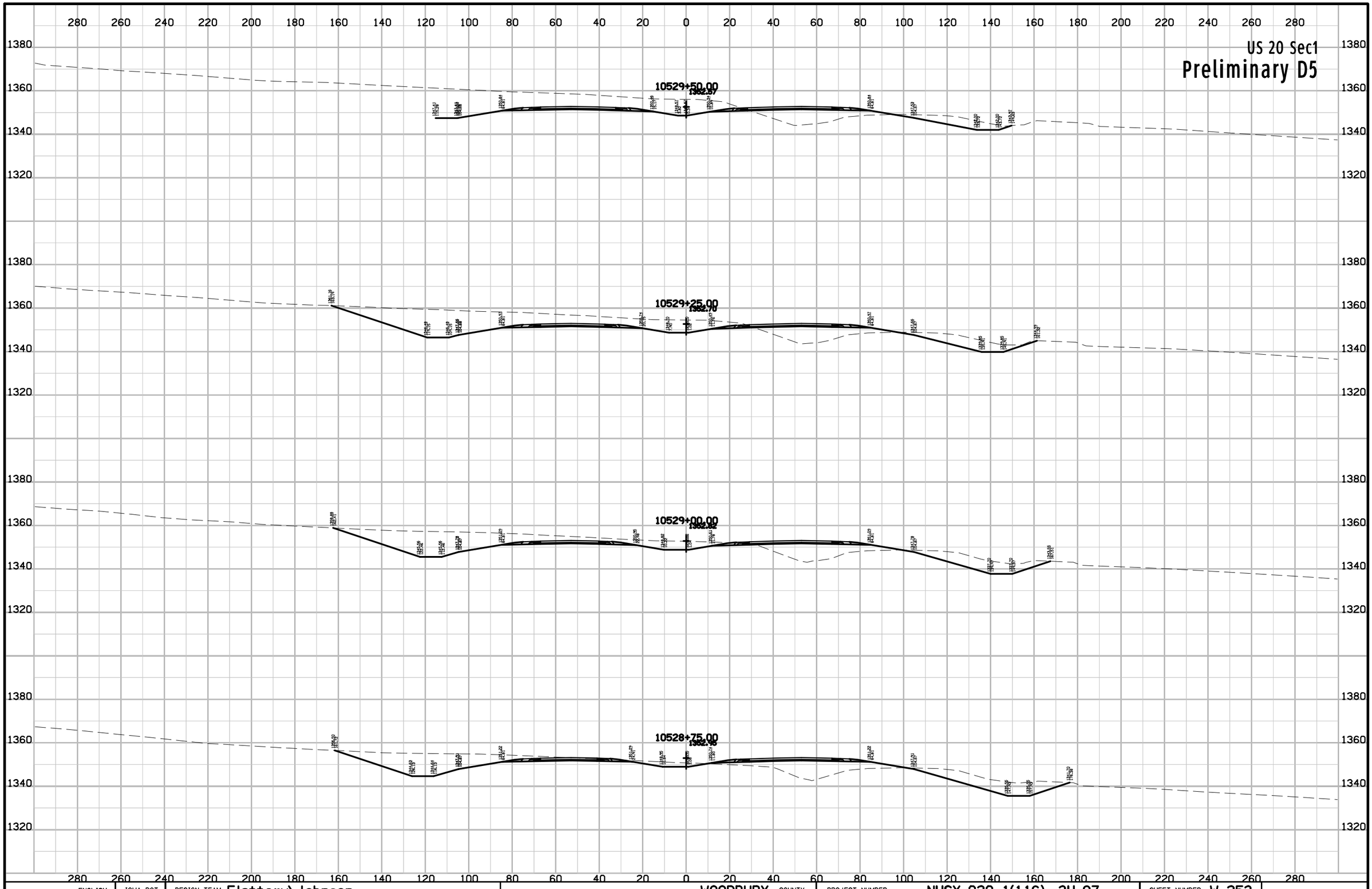
US 20 Sec1

Preliminary D5



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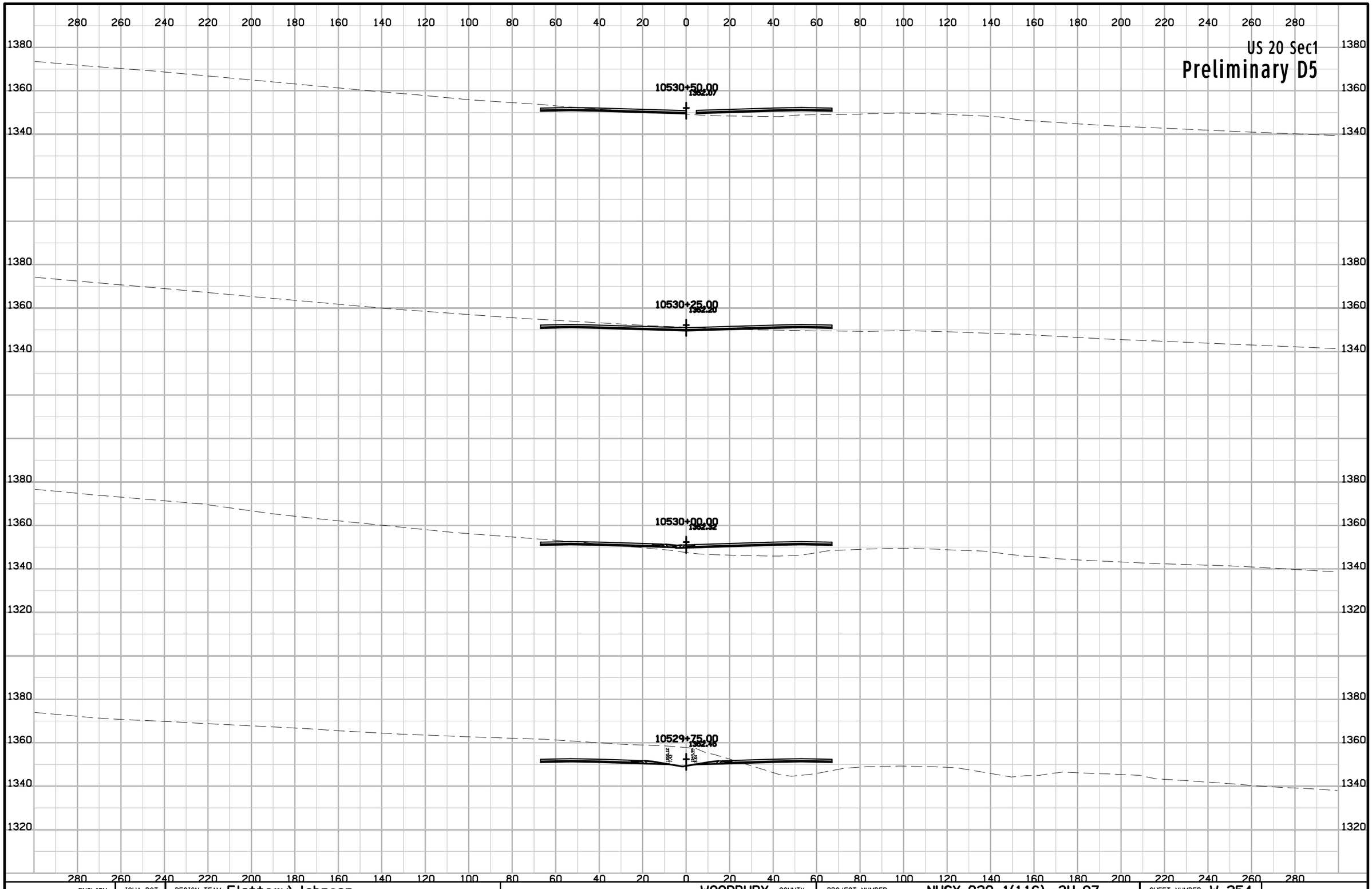
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.254

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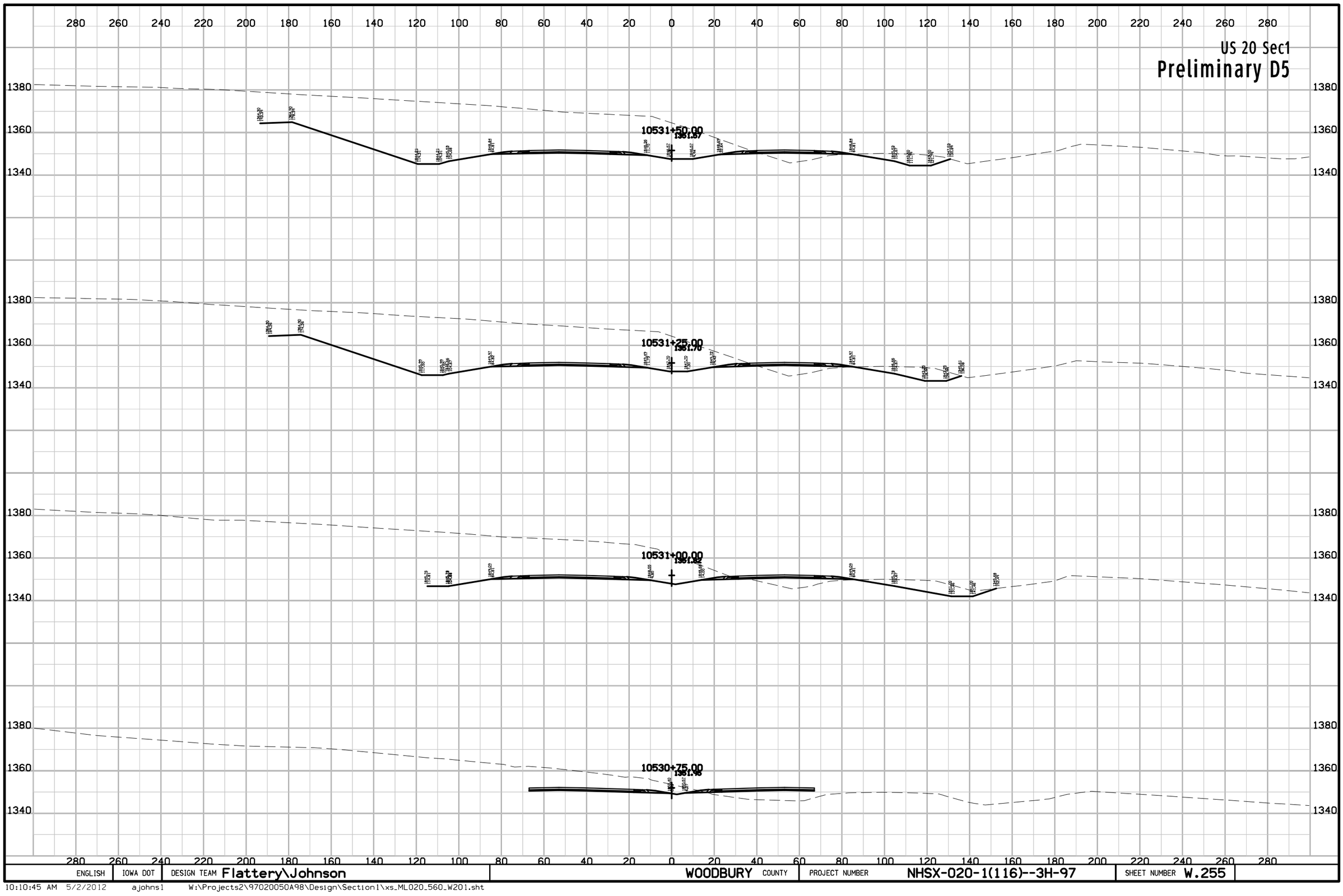
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.255

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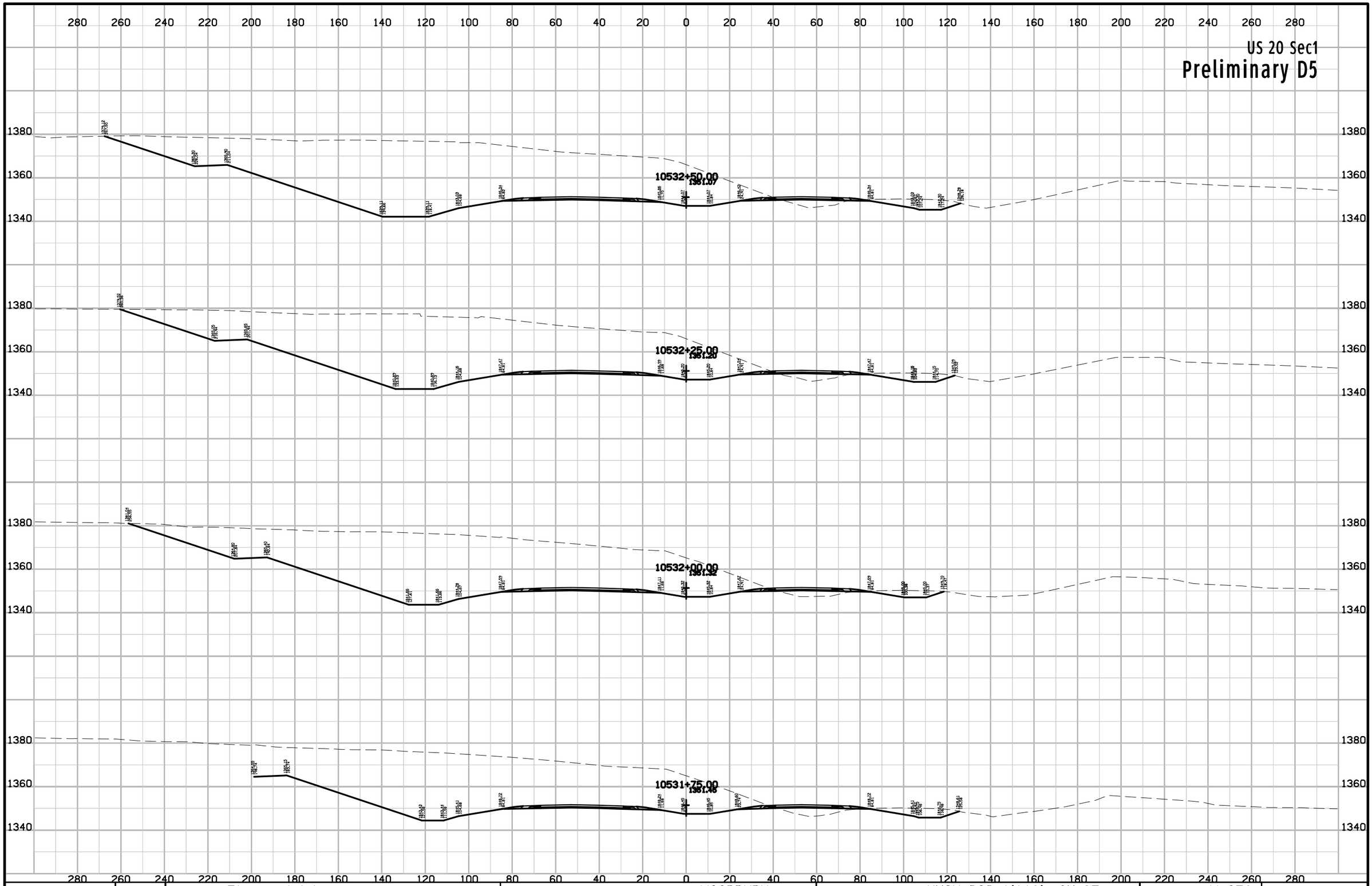
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.256

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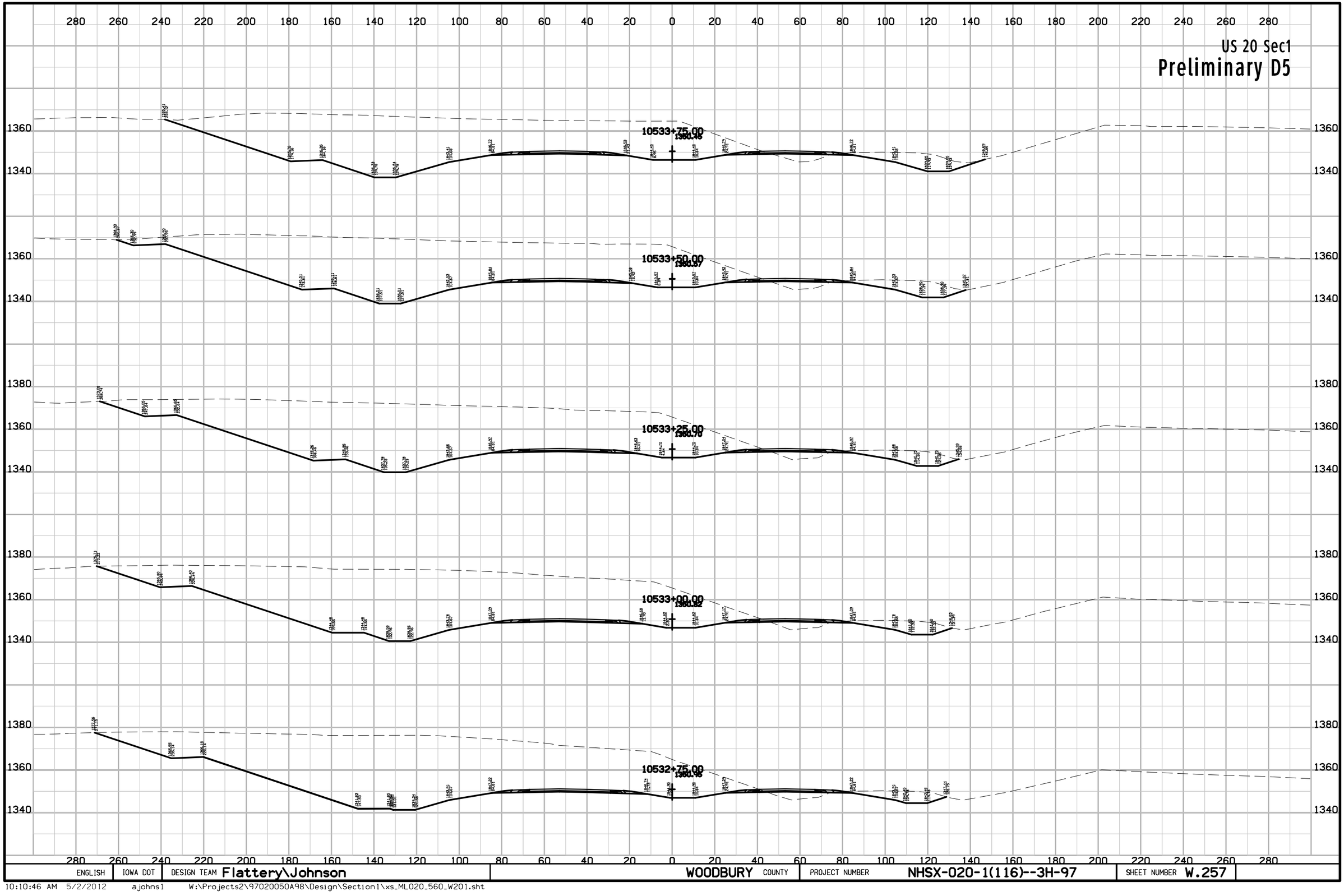
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.257

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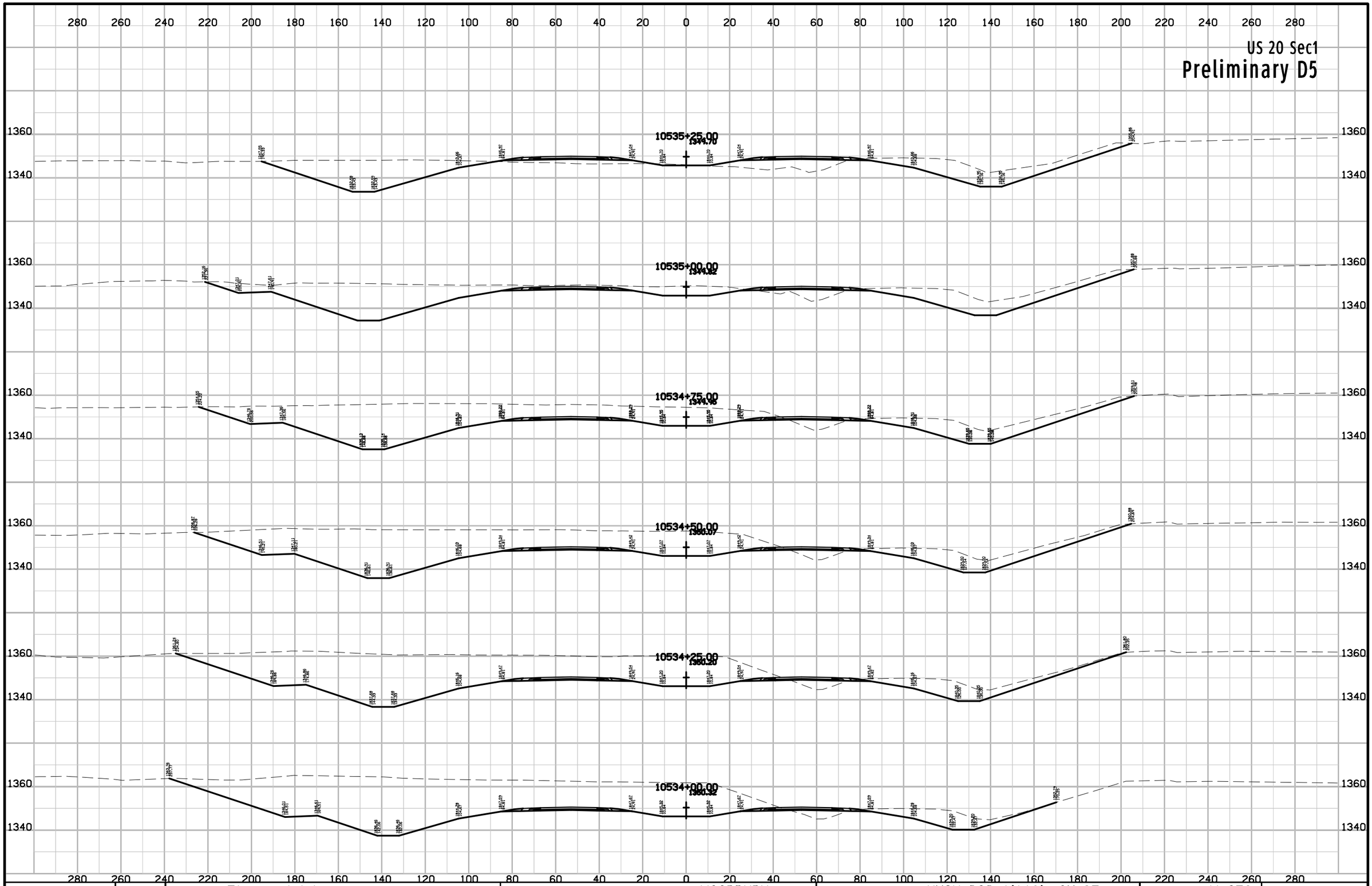
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.258

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1360
1340

10536+75.00
1346.95

10536+50.00
1344.07

10536+25.00
1344.20

10536+00.00
1344.32

10535+75.00
1344.48

10535+50.00
1344.57

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.259

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1360
1340

10538+25.00
1340.20

10538+00.00
1340.32

10537+75.00
1340.48

10537+50.00
1340.57

10537+25.00
1340.70

10537+00.00
1340.82

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.260

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

10539+75.00
1347.48

10539+50.00
1347.57

10539+25.00
1347.70

10539+00.00
1347.82

10538+75.00
1347.98

10538+50.00
1348.07

1340 1360

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.261

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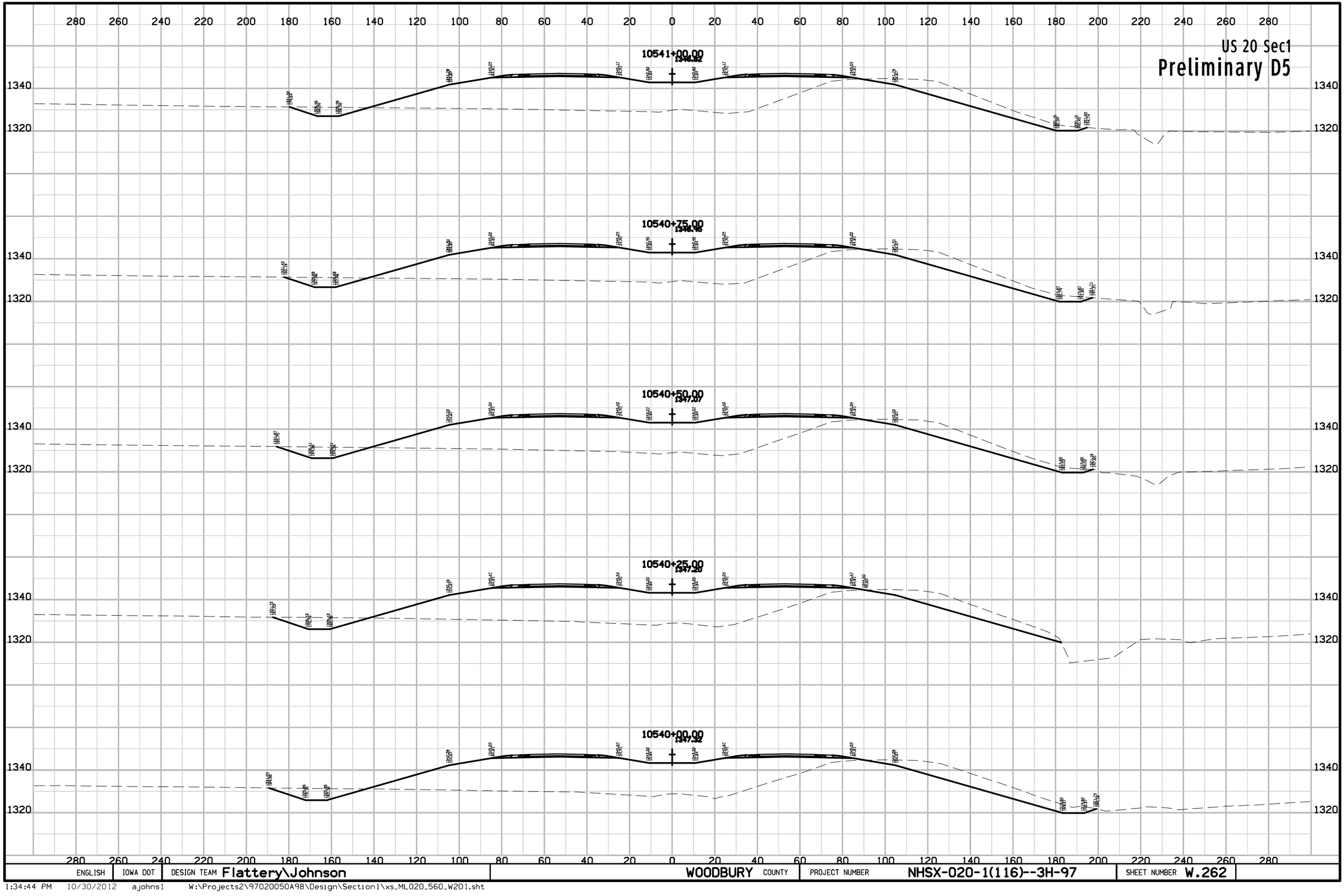
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.262

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1340
1320

10542+25.00
1346.20

10542+00.00
1346.32

10541+75.00
1346.46

10541+50.00
1346.57

10541+25.00
1346.70

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.263

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

10543+50.00
1346.97

10543+25.00
1346.70

10543+00.00
1346.62

10542+75.00
1346.96

10542+50.00
1346.07

1340
1320

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.264

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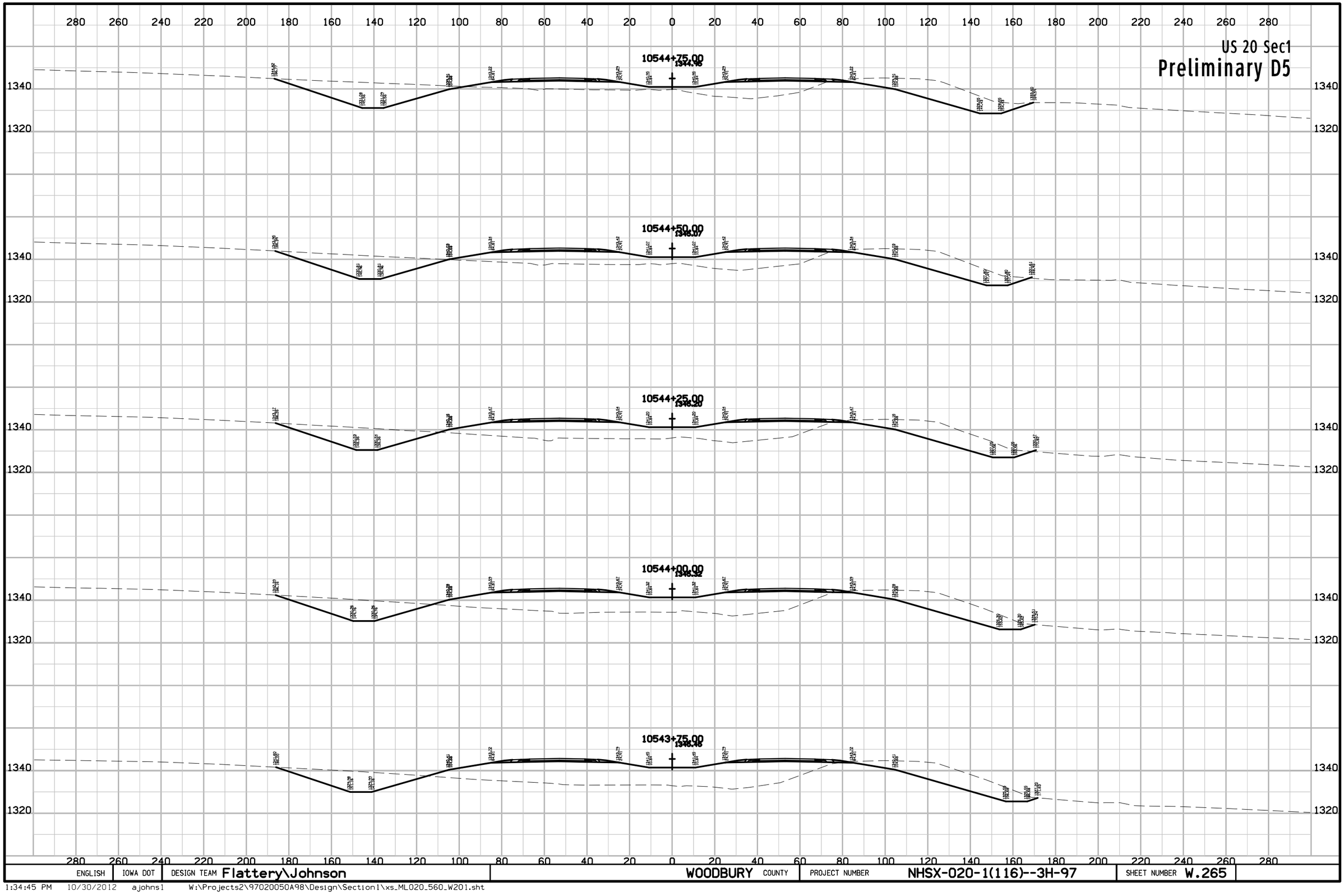
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.265

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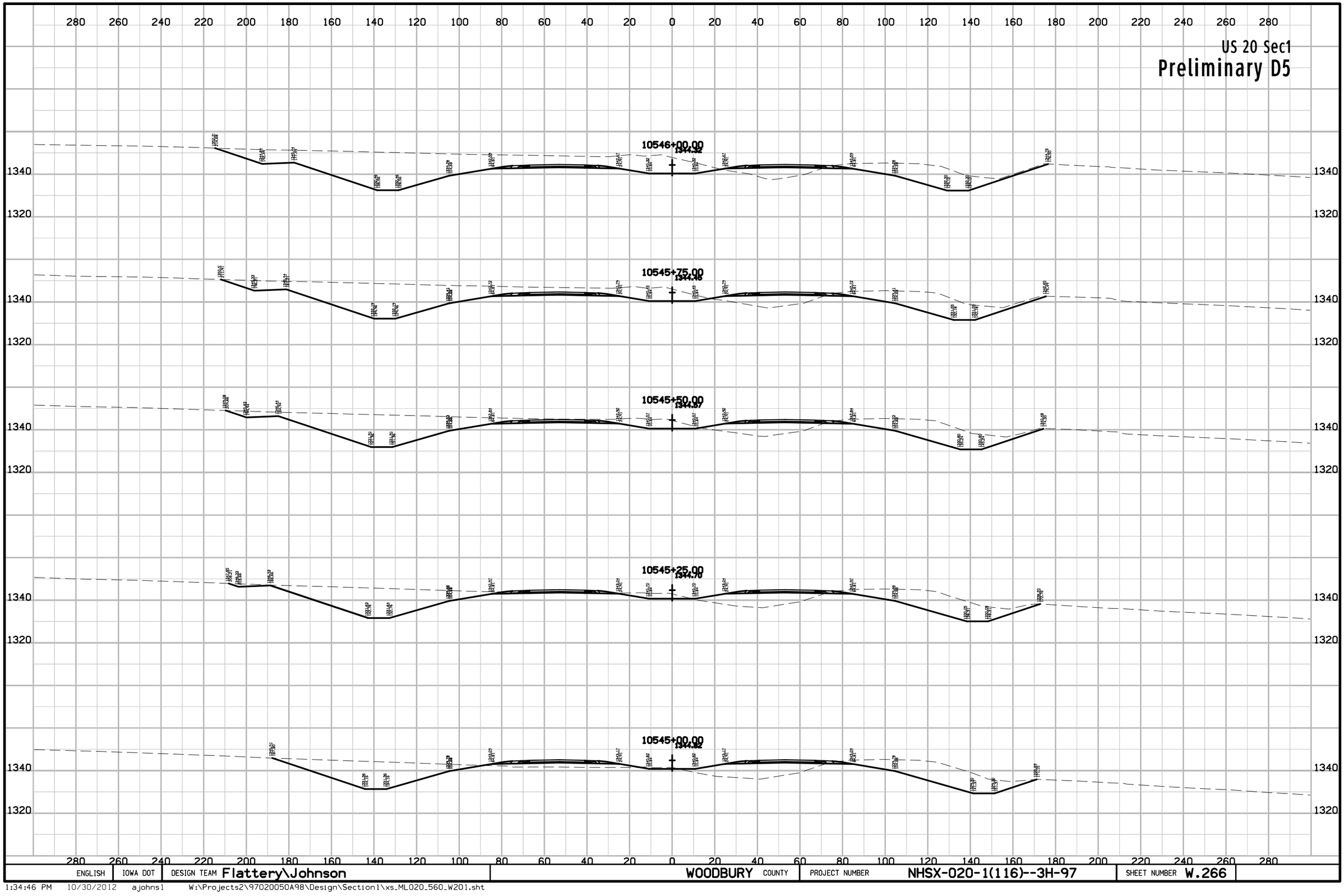
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.266

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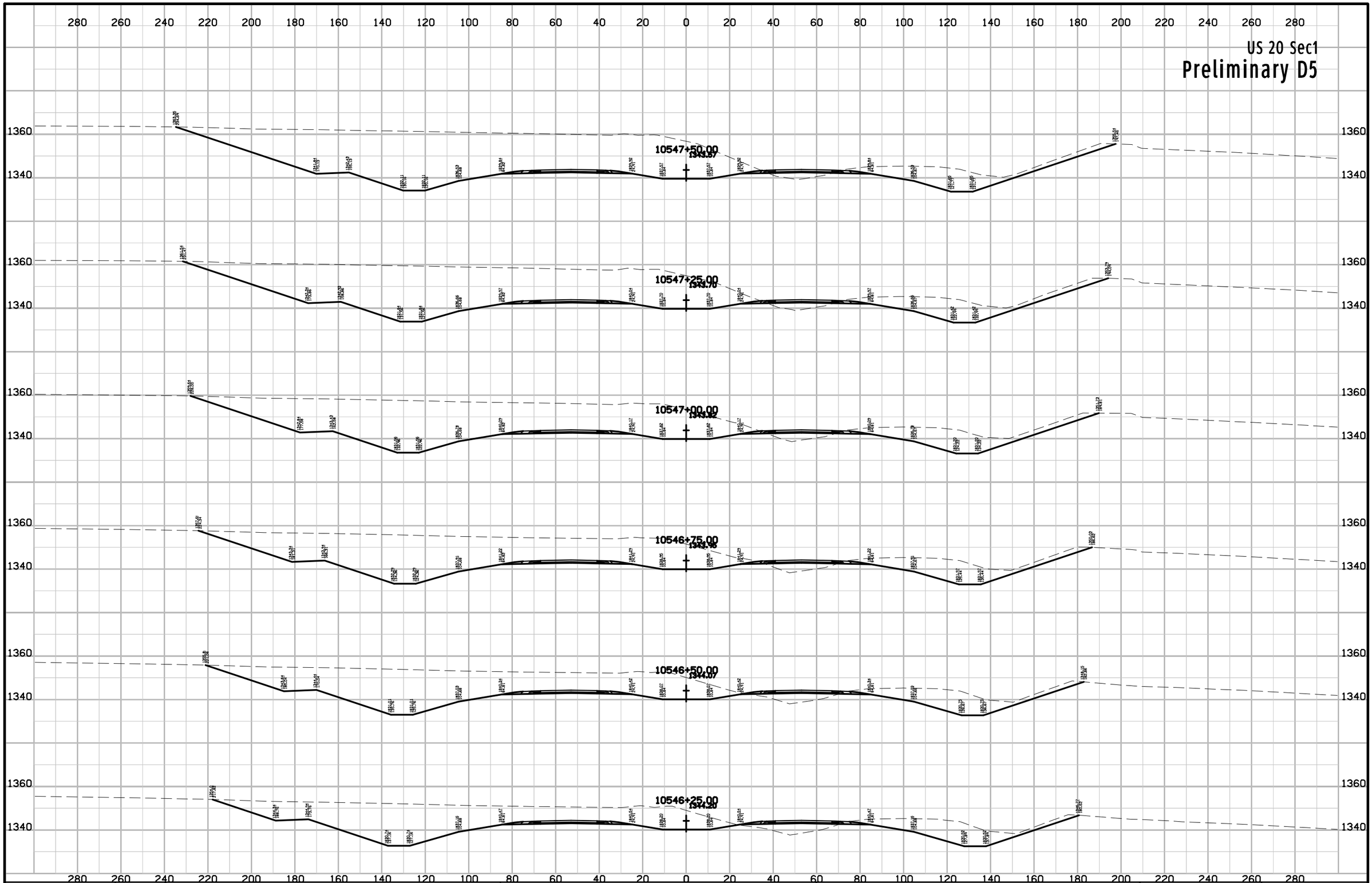
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.267

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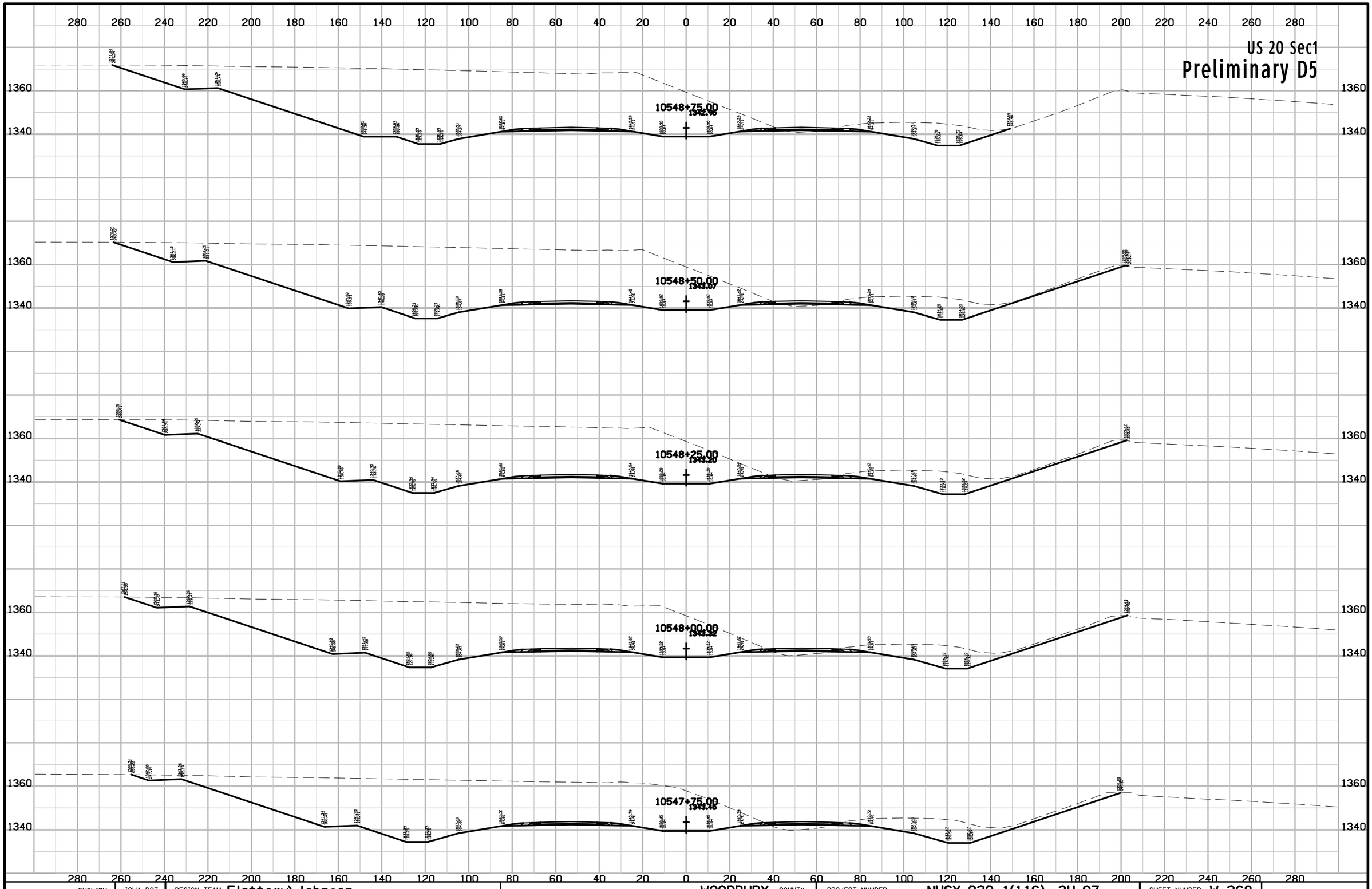
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.268

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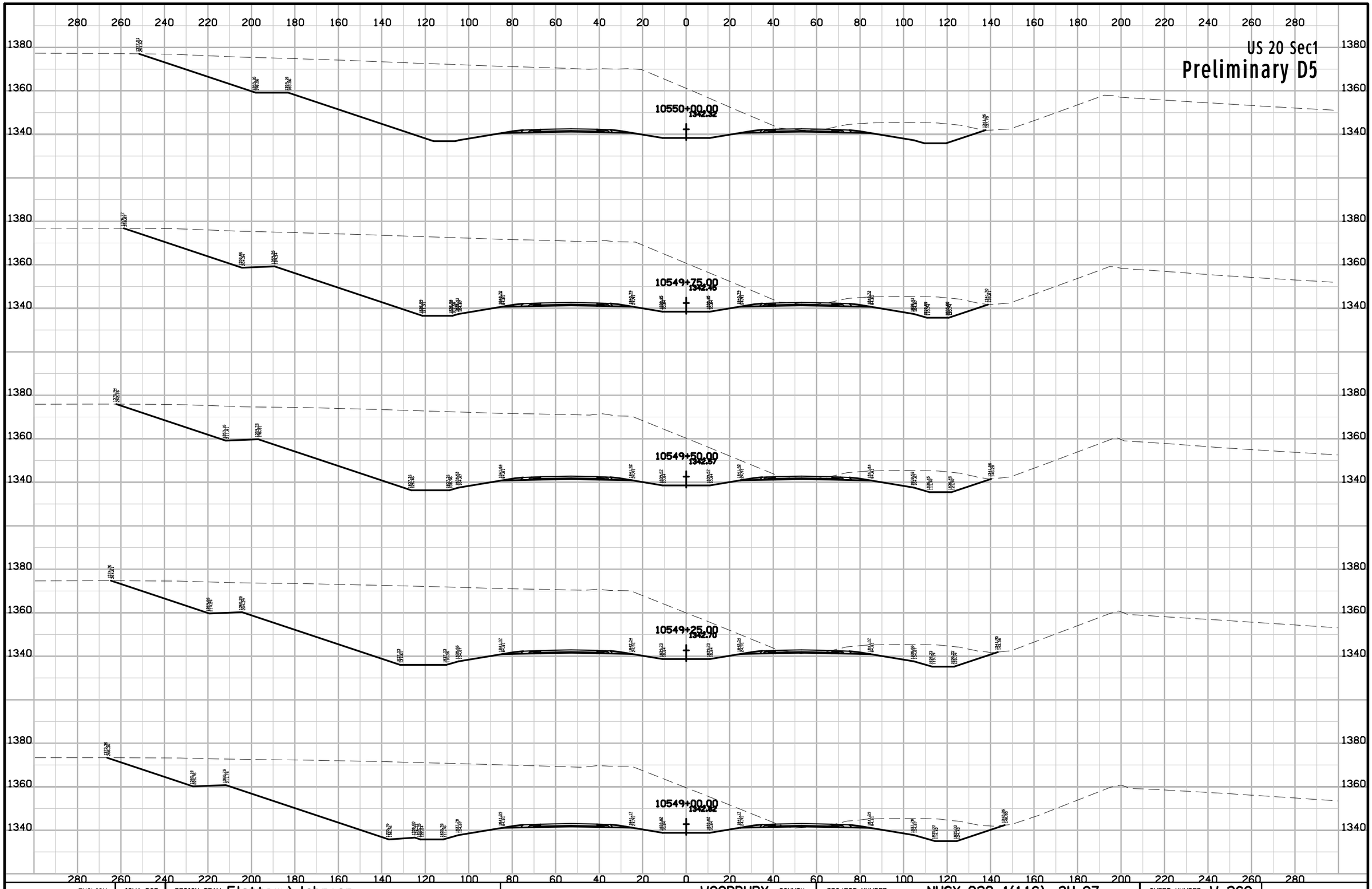
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.269

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US 20 Sec1

Preliminary D5

10551+25.00
1341.70

10551+00.00
1341.92

10550+75.00
1341.96

10550+50.00
1342.07

10550+25.00
1342.20

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.270

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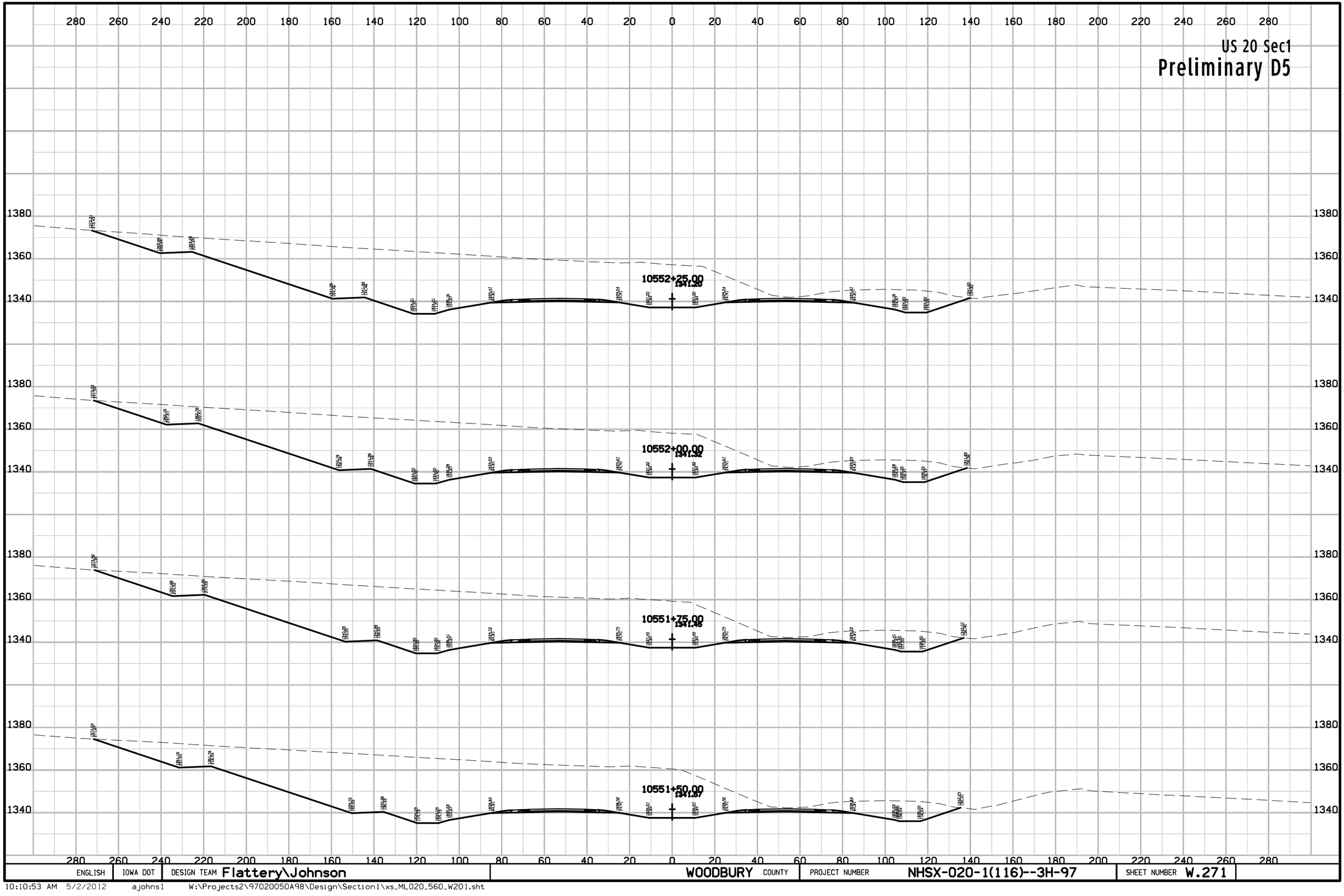
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.271

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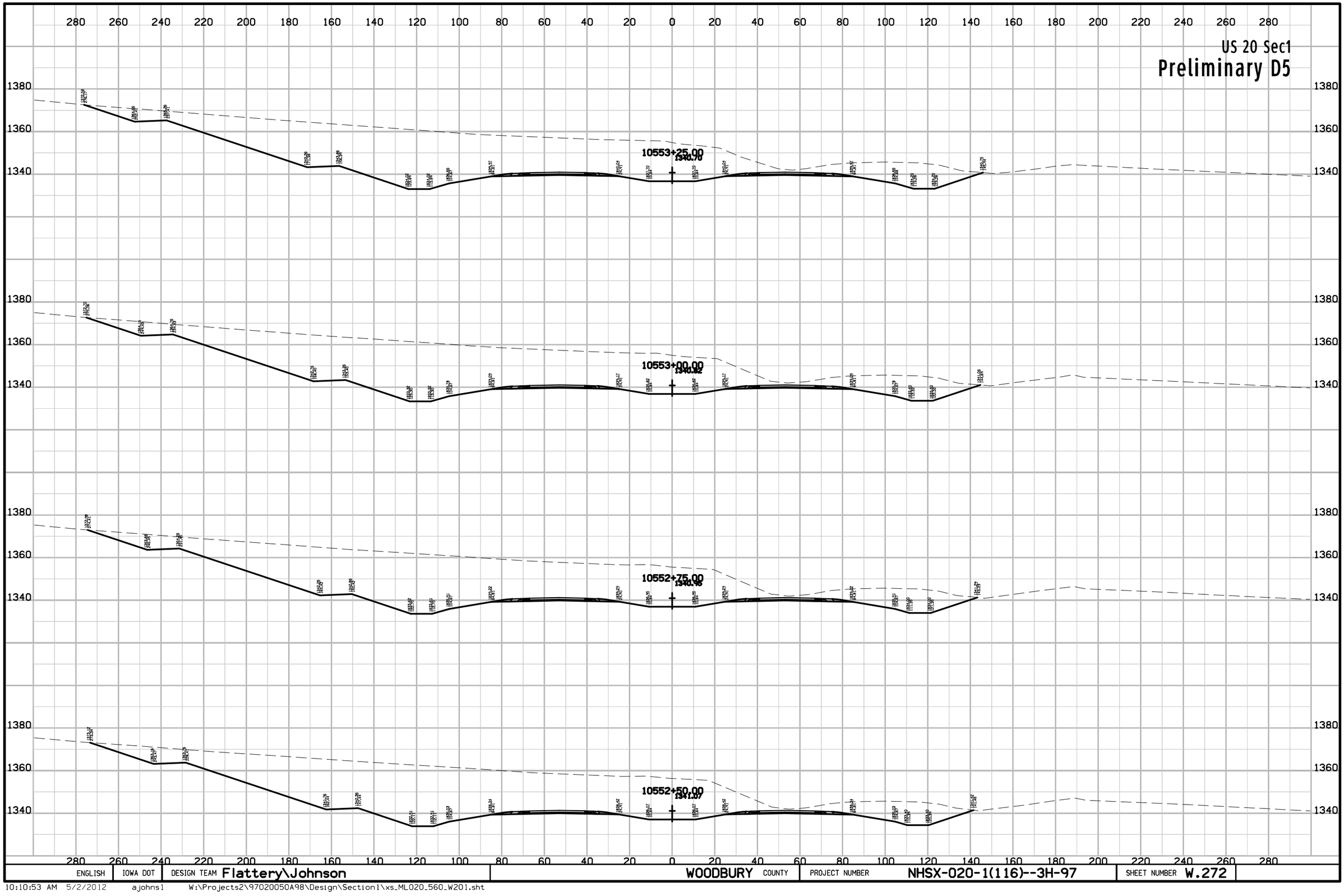
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY	COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.272

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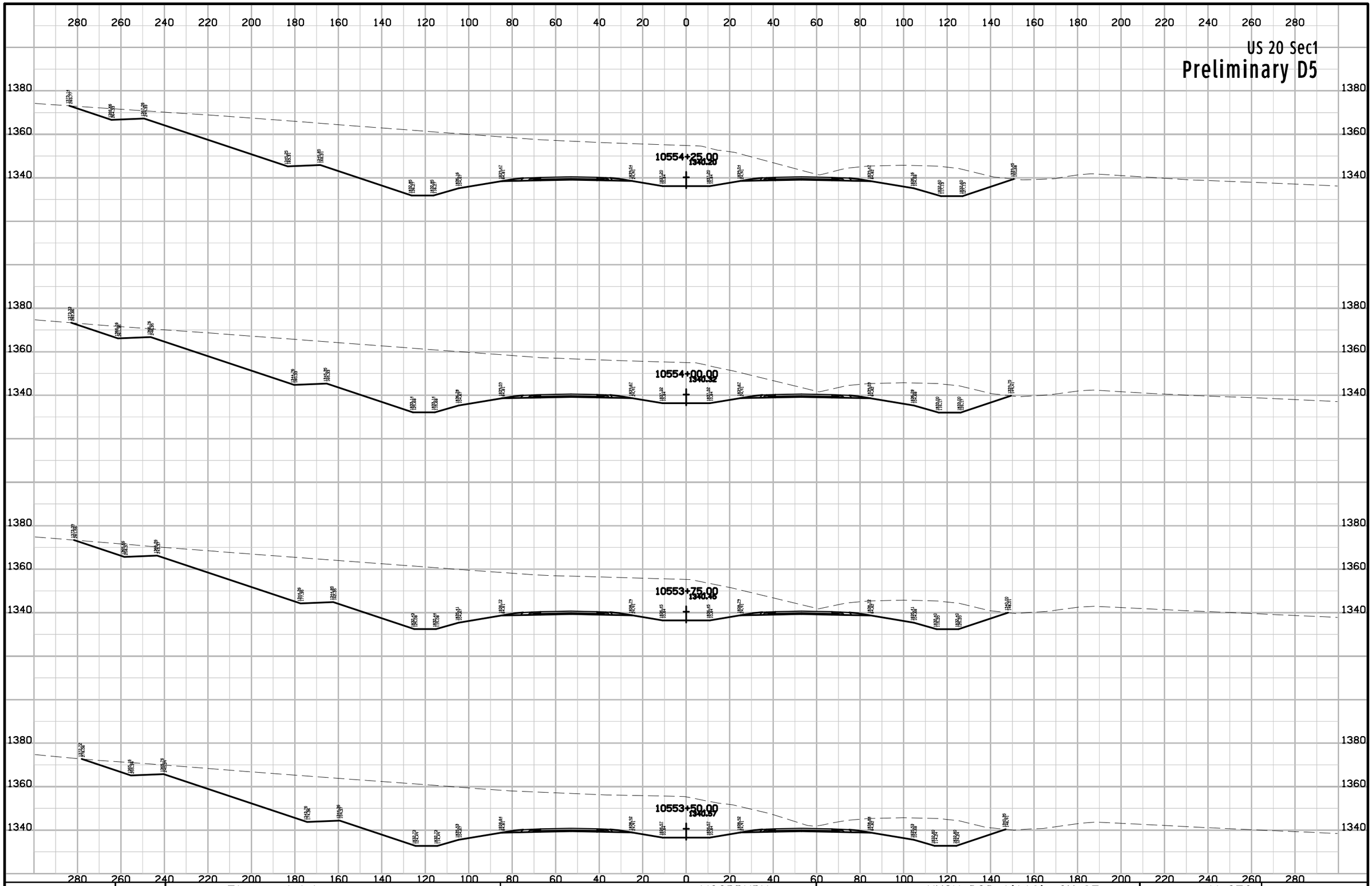
US 20 Sec1

Preliminary D5



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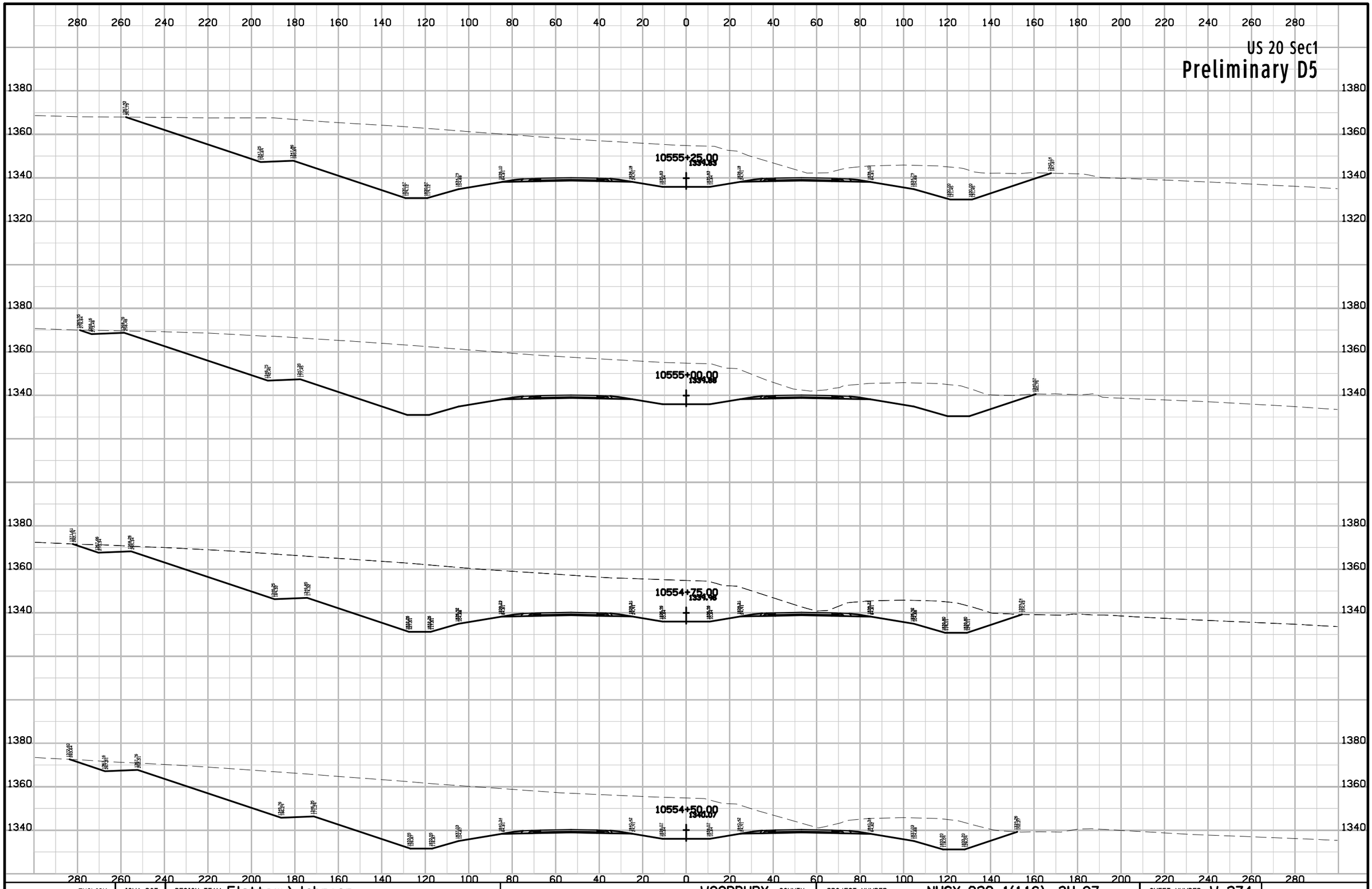
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.274

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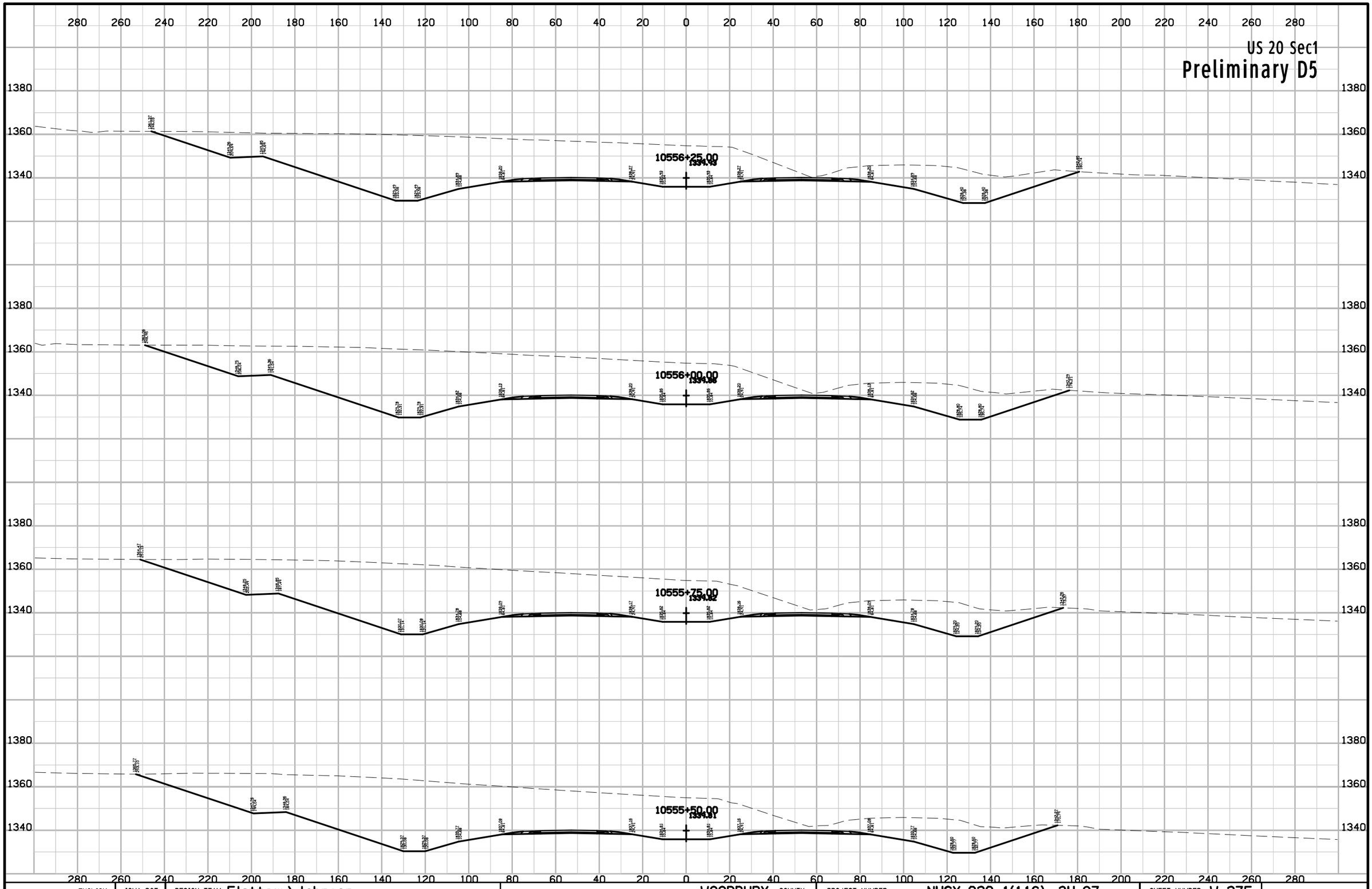
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.275

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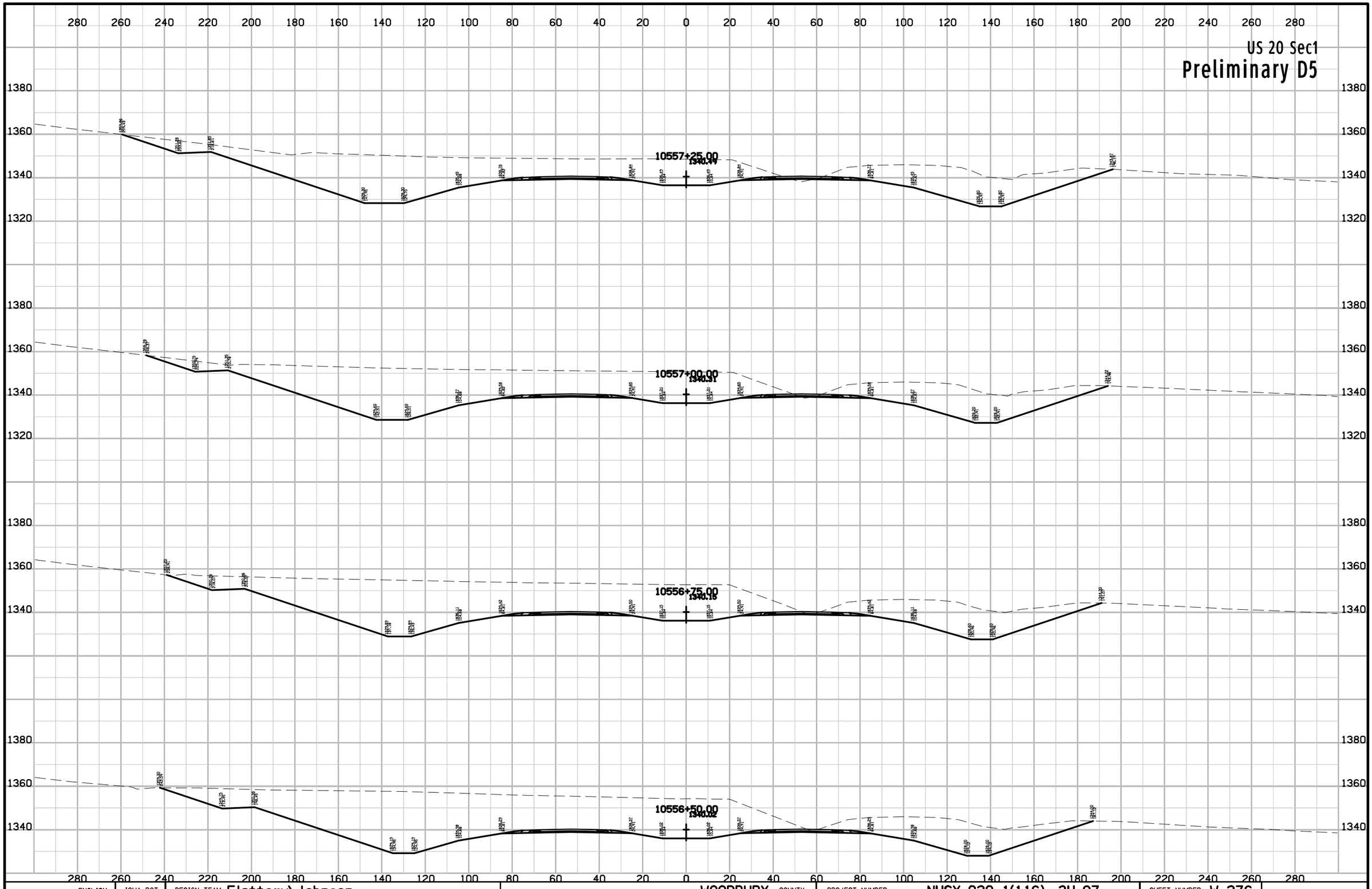
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.276

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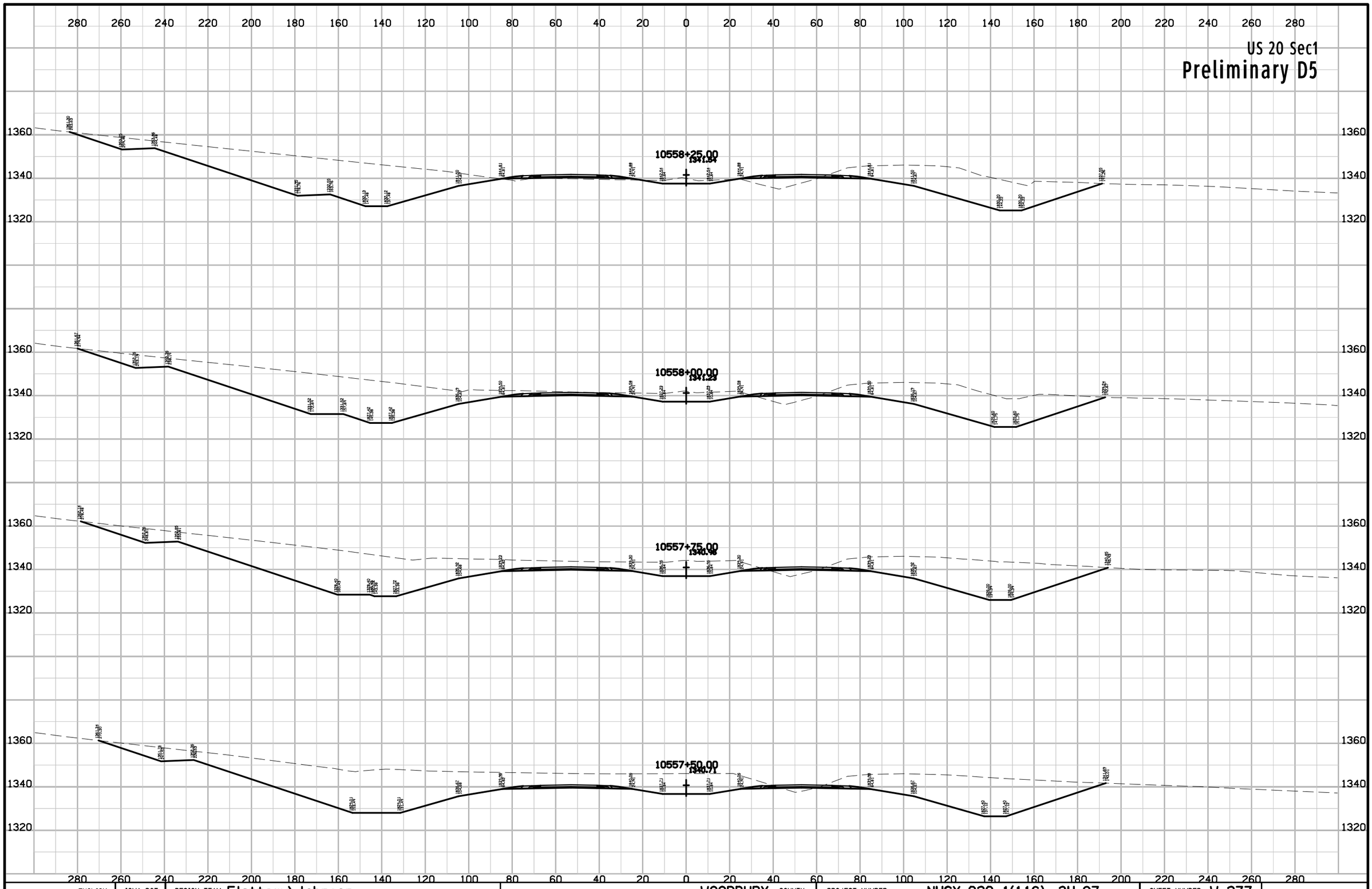
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.277

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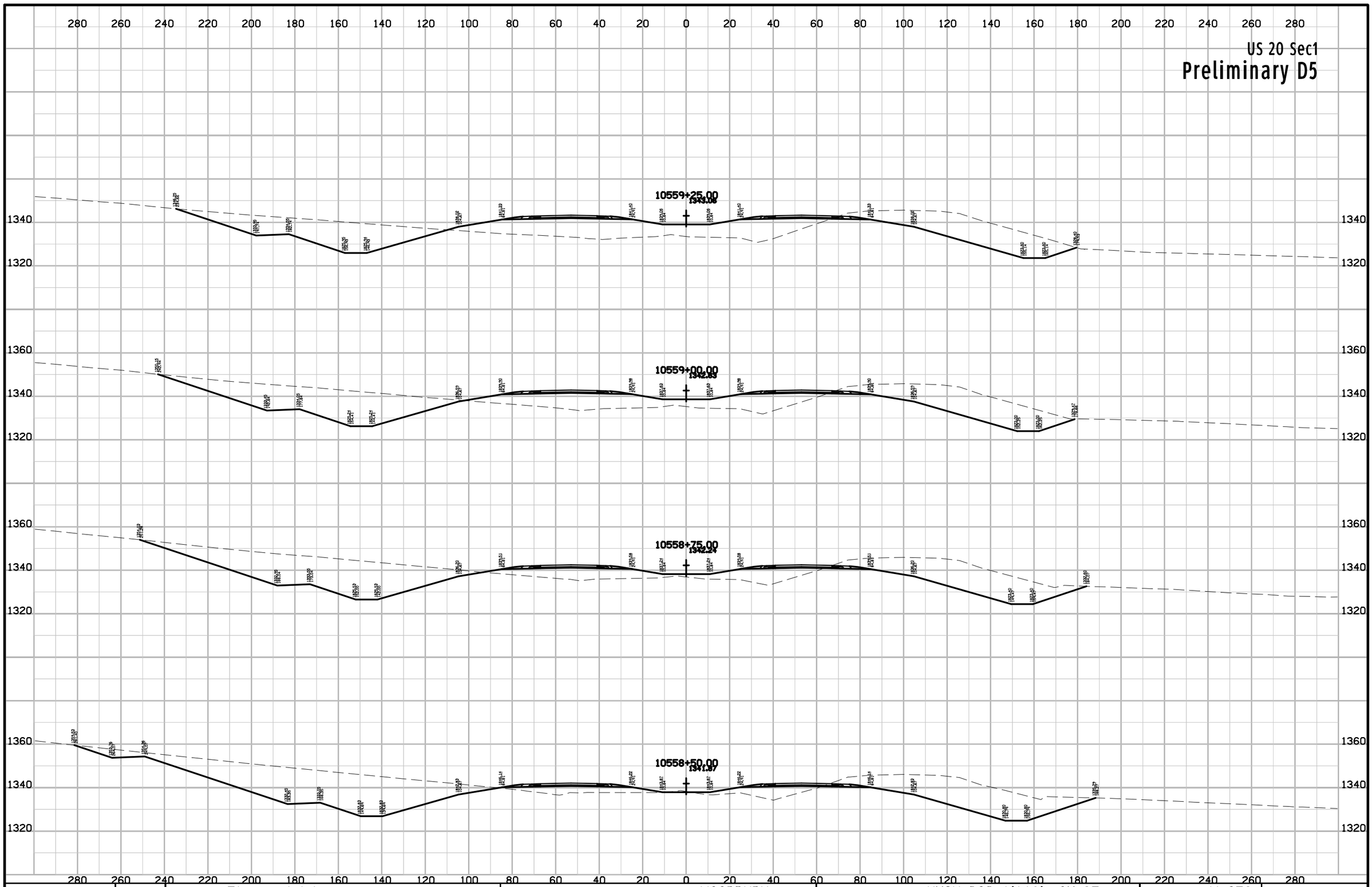
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.278

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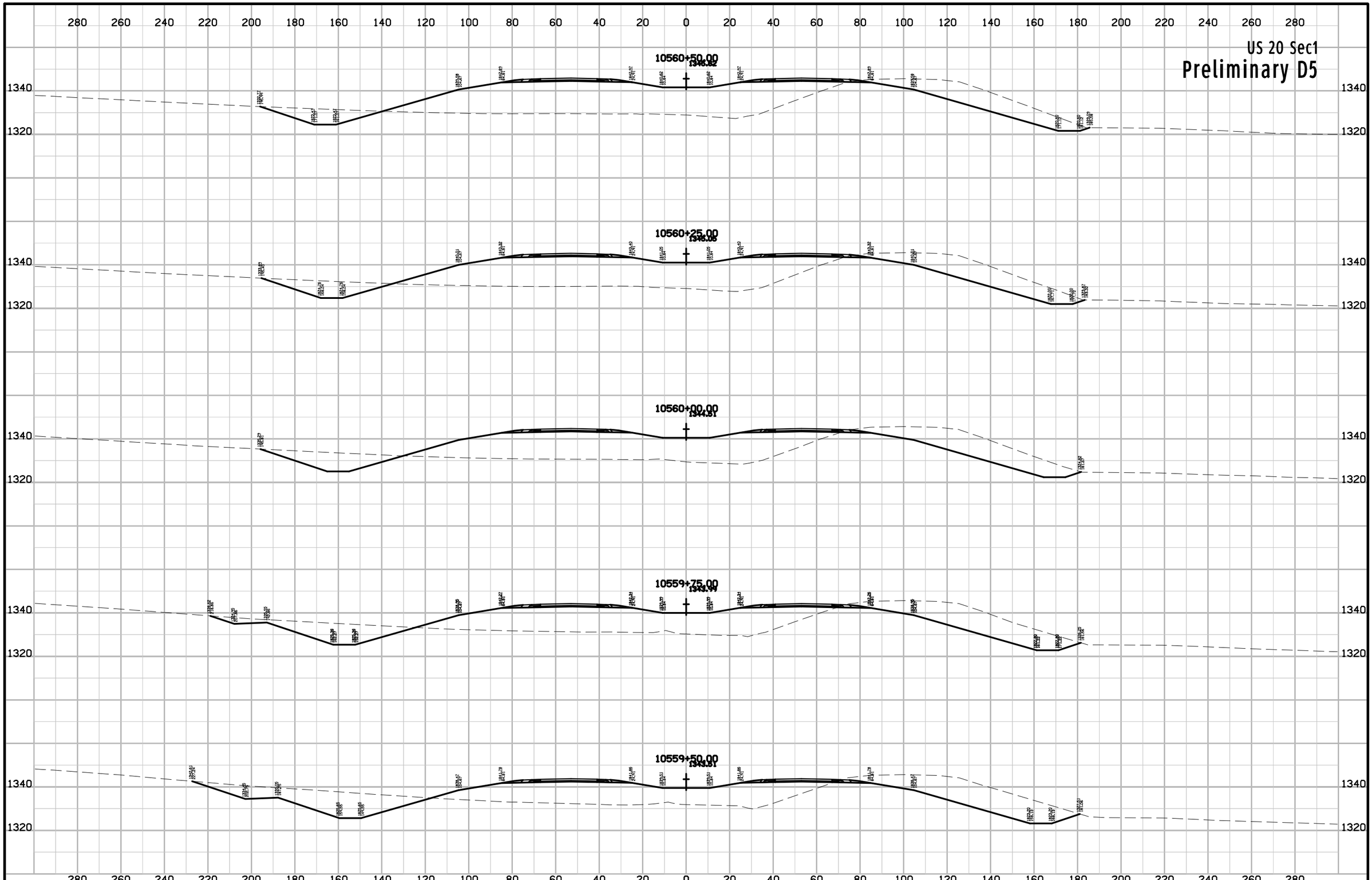
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.279

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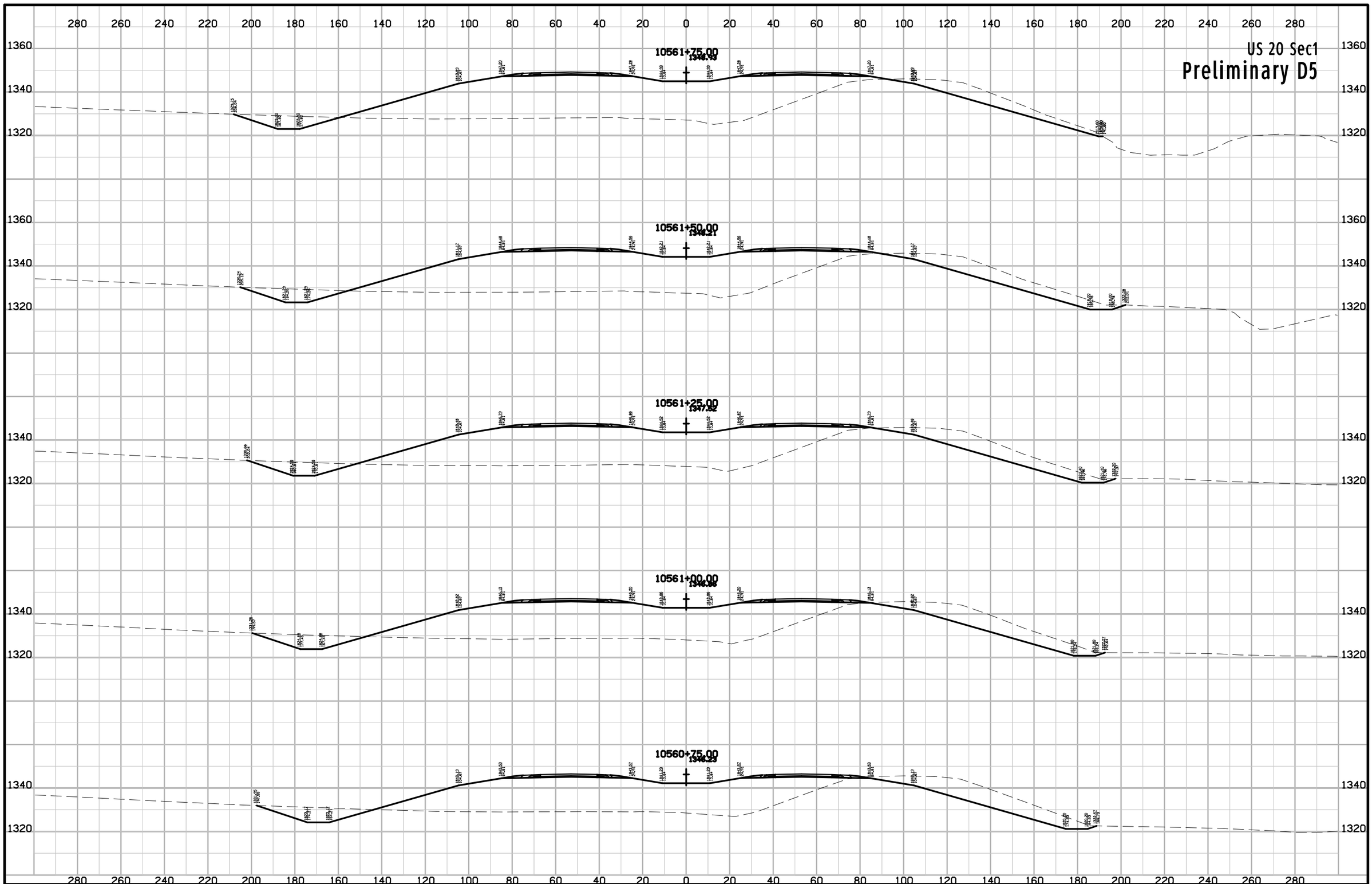
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.280

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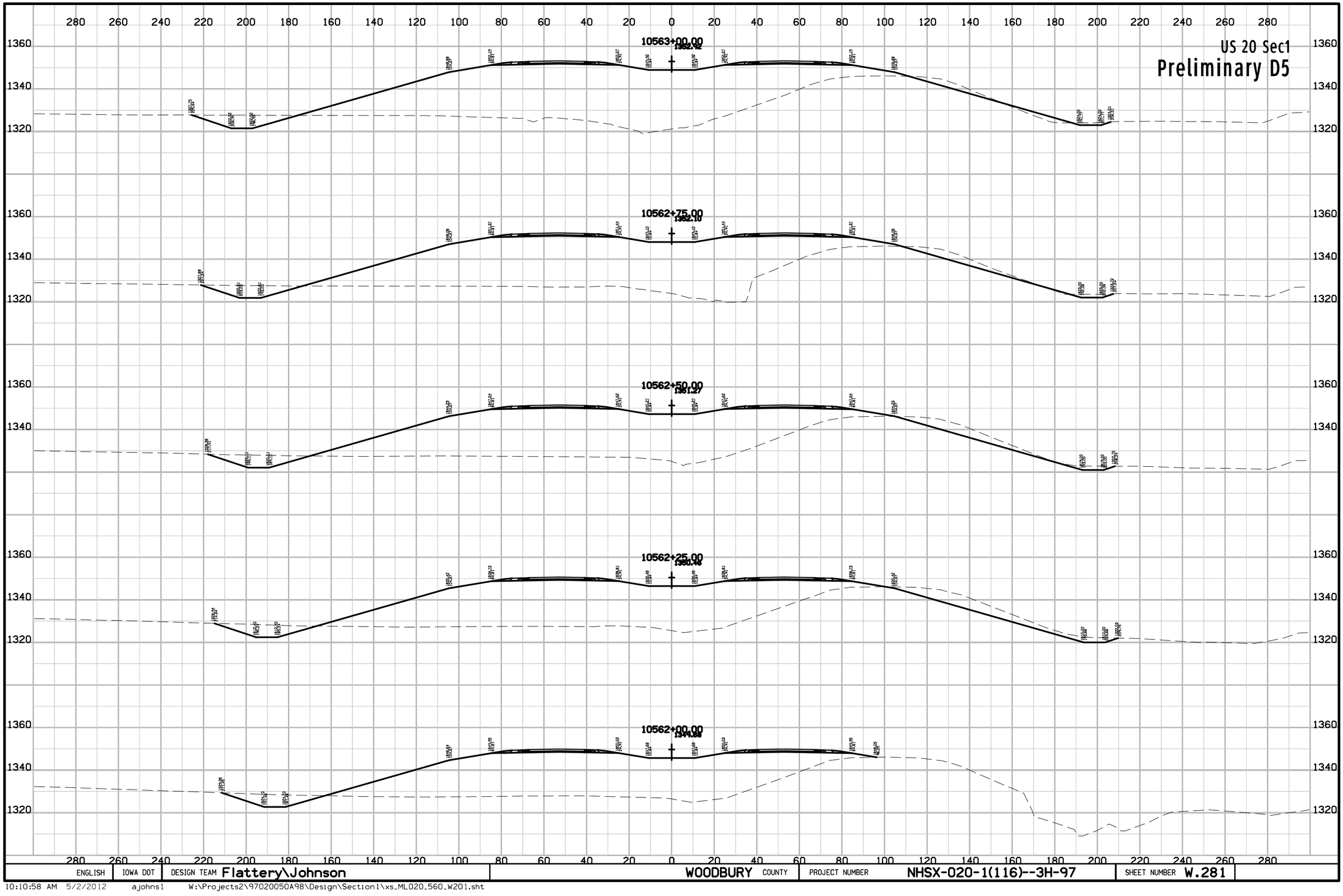
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.281

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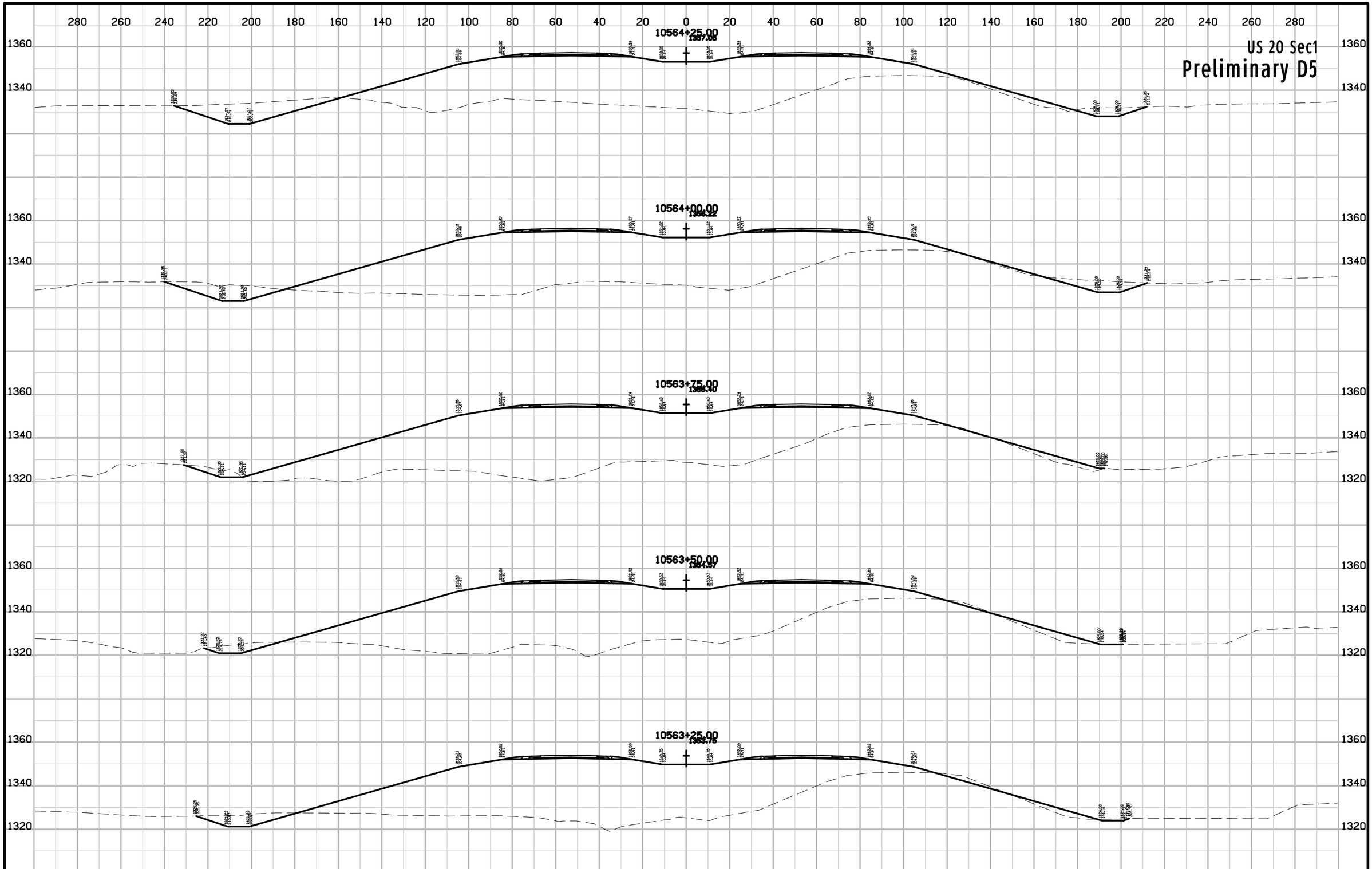
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.282

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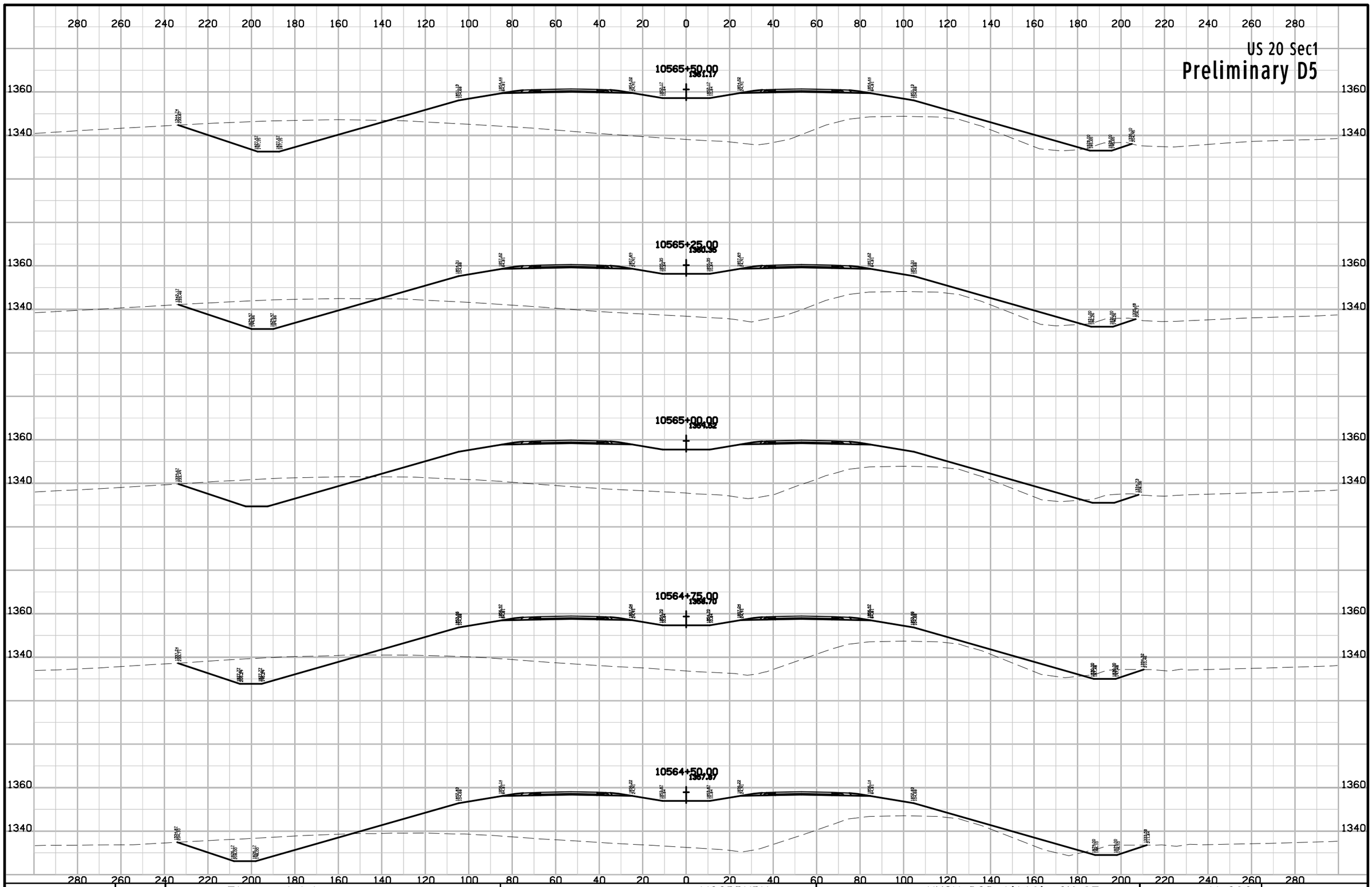
US 20 Sec1

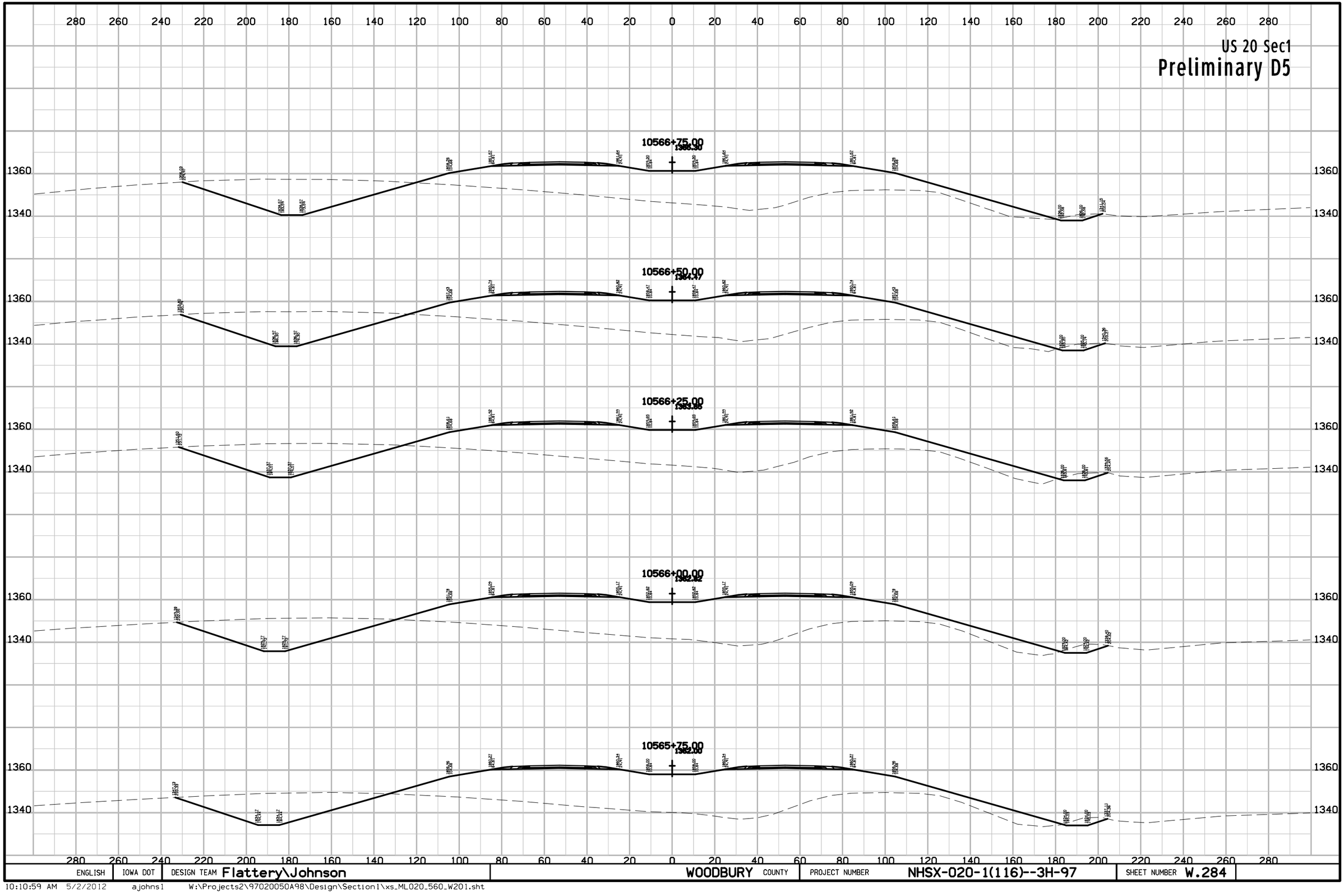
Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.283	

US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.284

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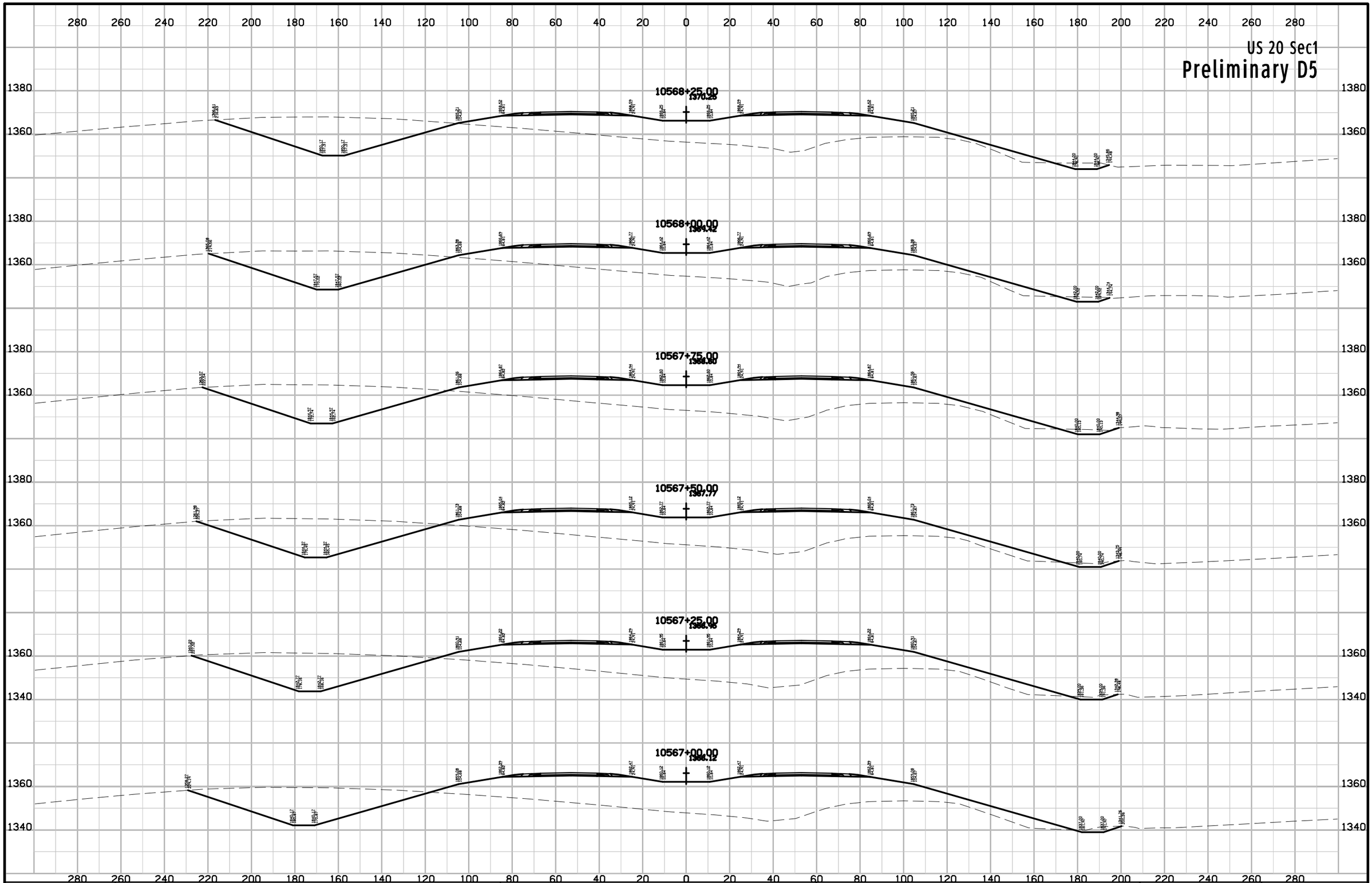
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.285

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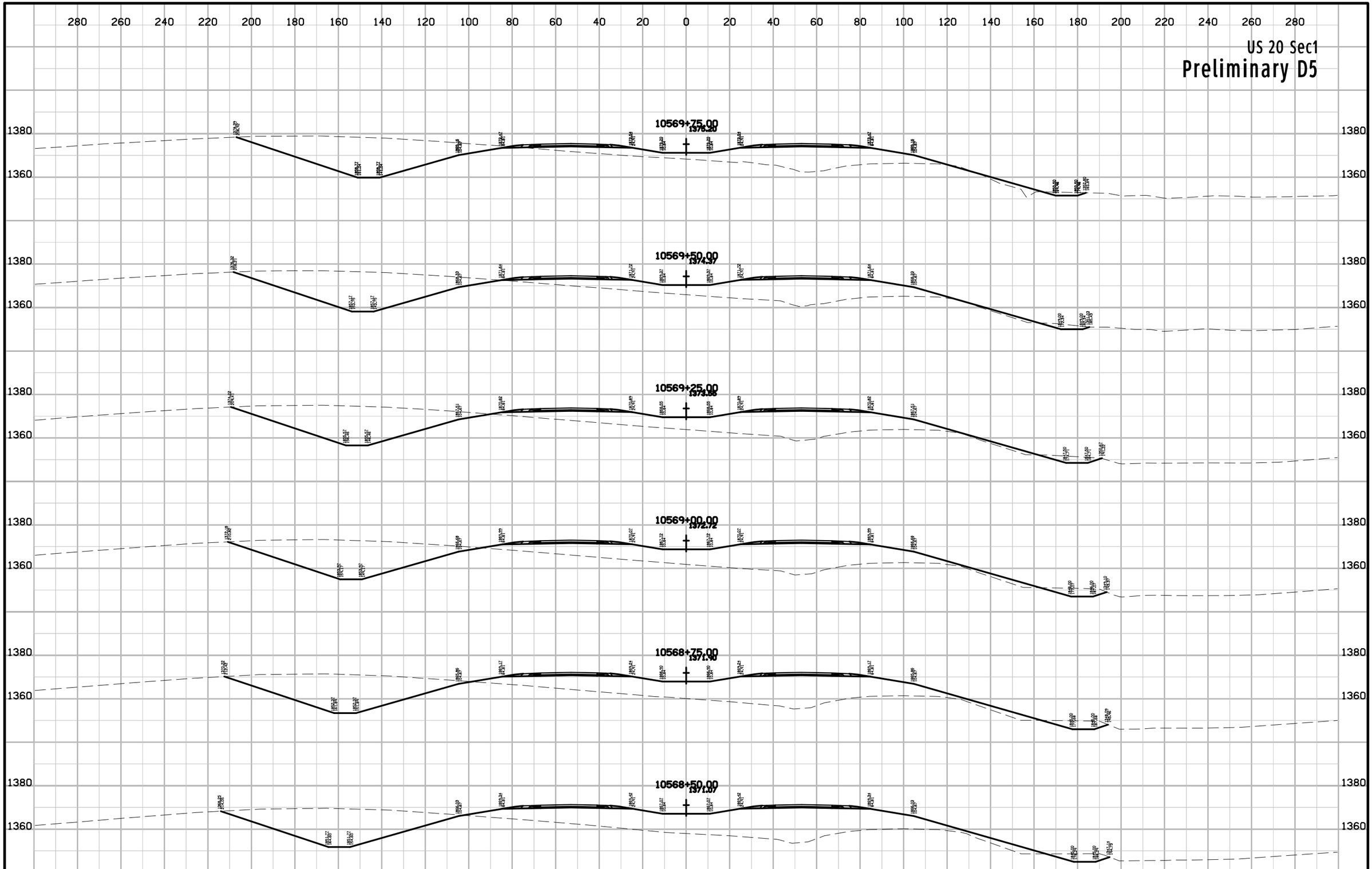
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.286

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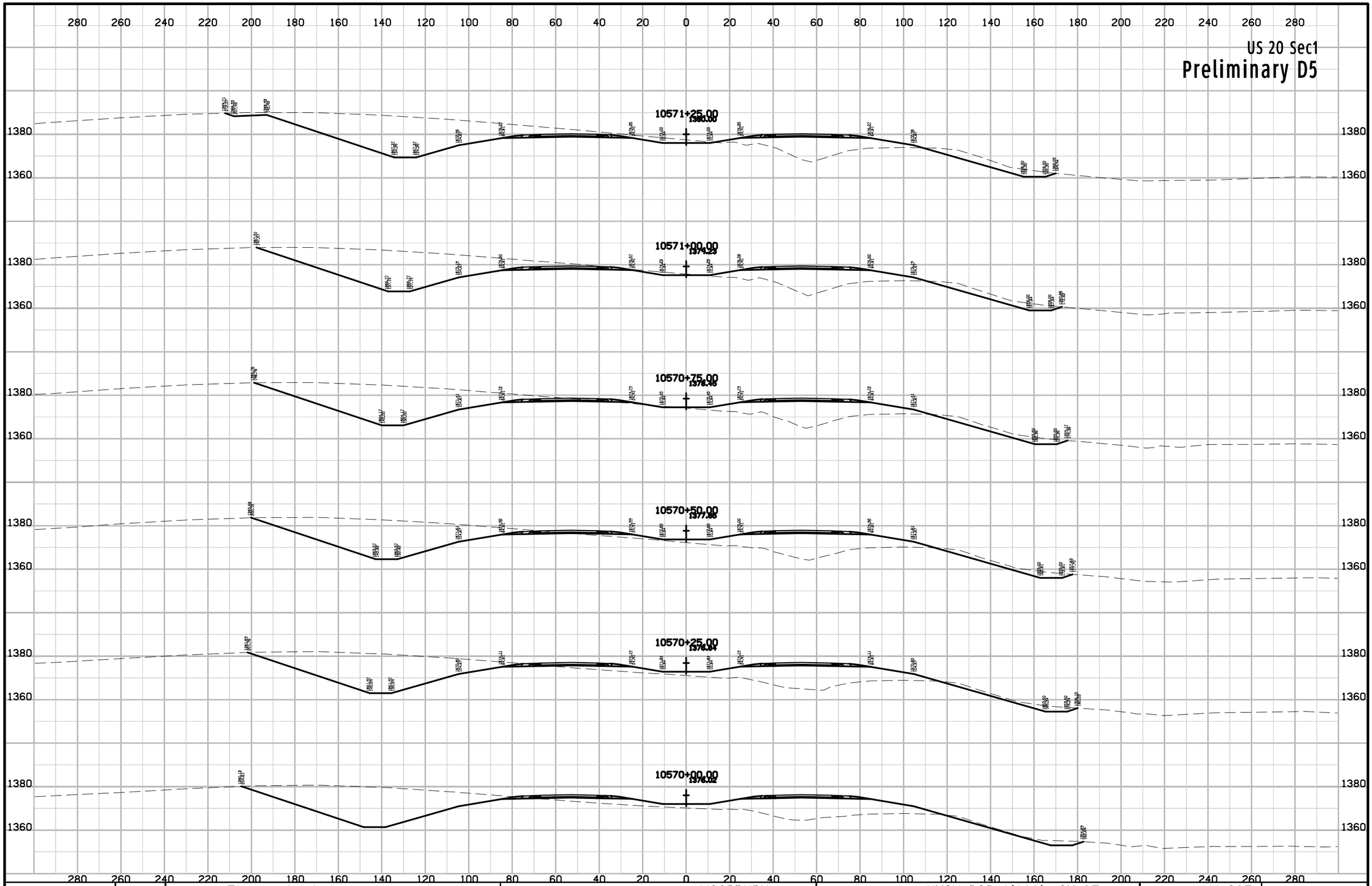
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.287

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1400
1380

10572+75.00
1384.39

10572+50.00
1383.84

10572+25.00
1382.90

10572+00.00
1382.28

10571+75.00
1381.51

10571+50.00
1380.76

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.288

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US 20 Sec1

Preliminary D5

10574+00.00
1387.73

10573+75.00
1387.04

10573+50.00
1386.43

10573+25.00
1386.76

10573+00.00
1386.08

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.289

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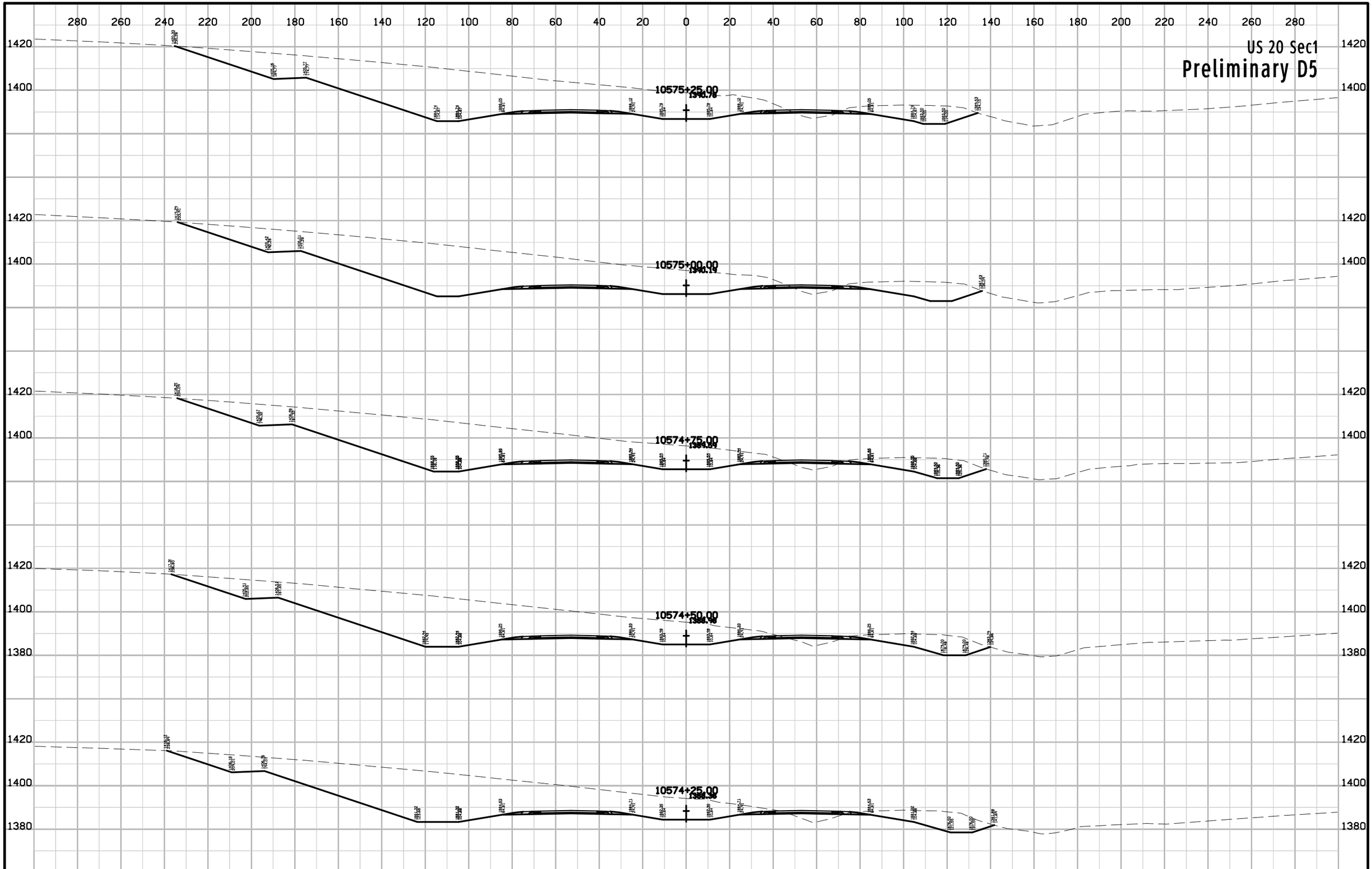
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.290

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1420
1400

10576+50.00
1343.33

10576+25.00
1343.00

10576+00.00
1342.48

10575+75.00
1341.91

10575+50.00
1341.36

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.291

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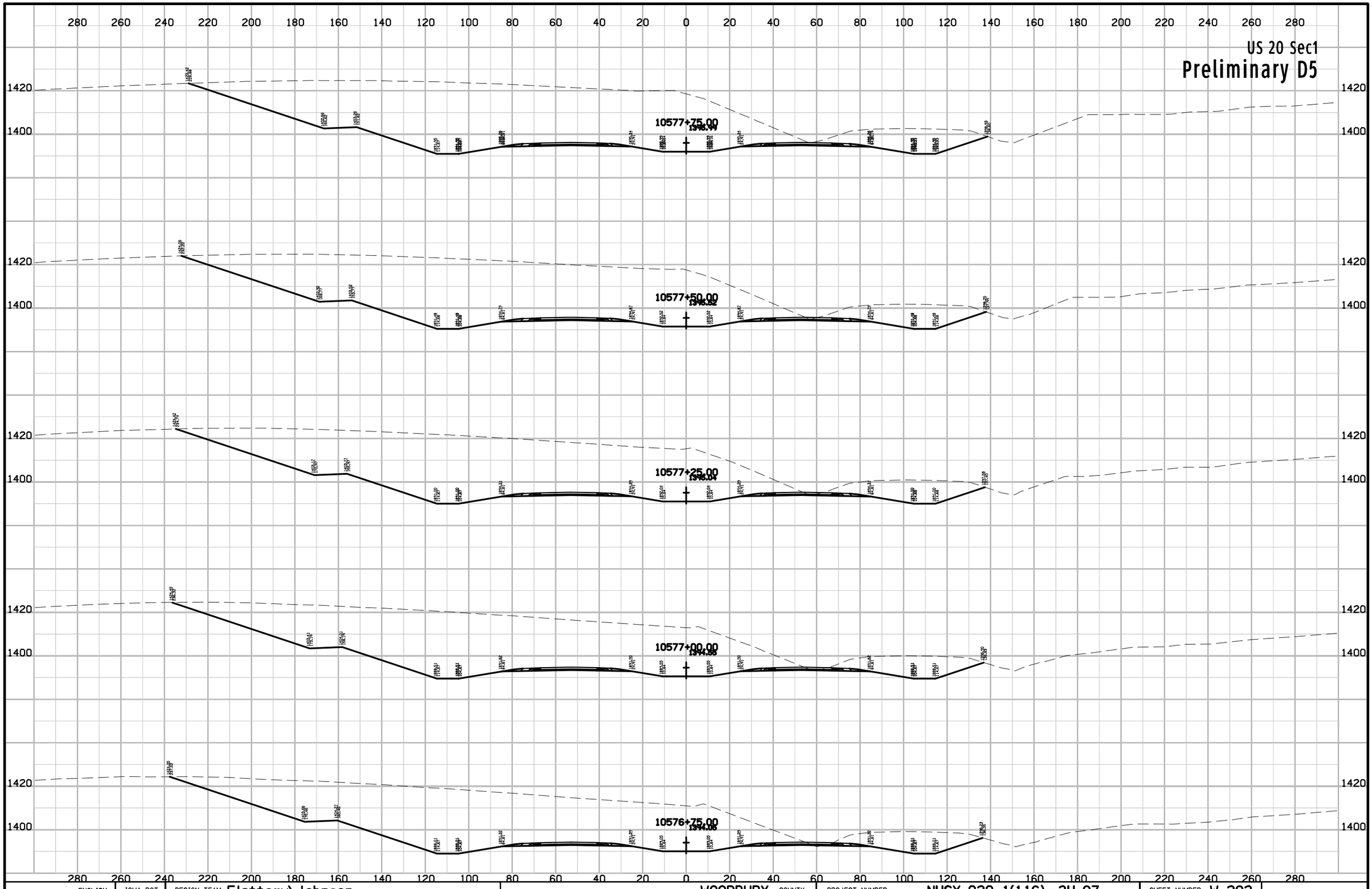
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.292

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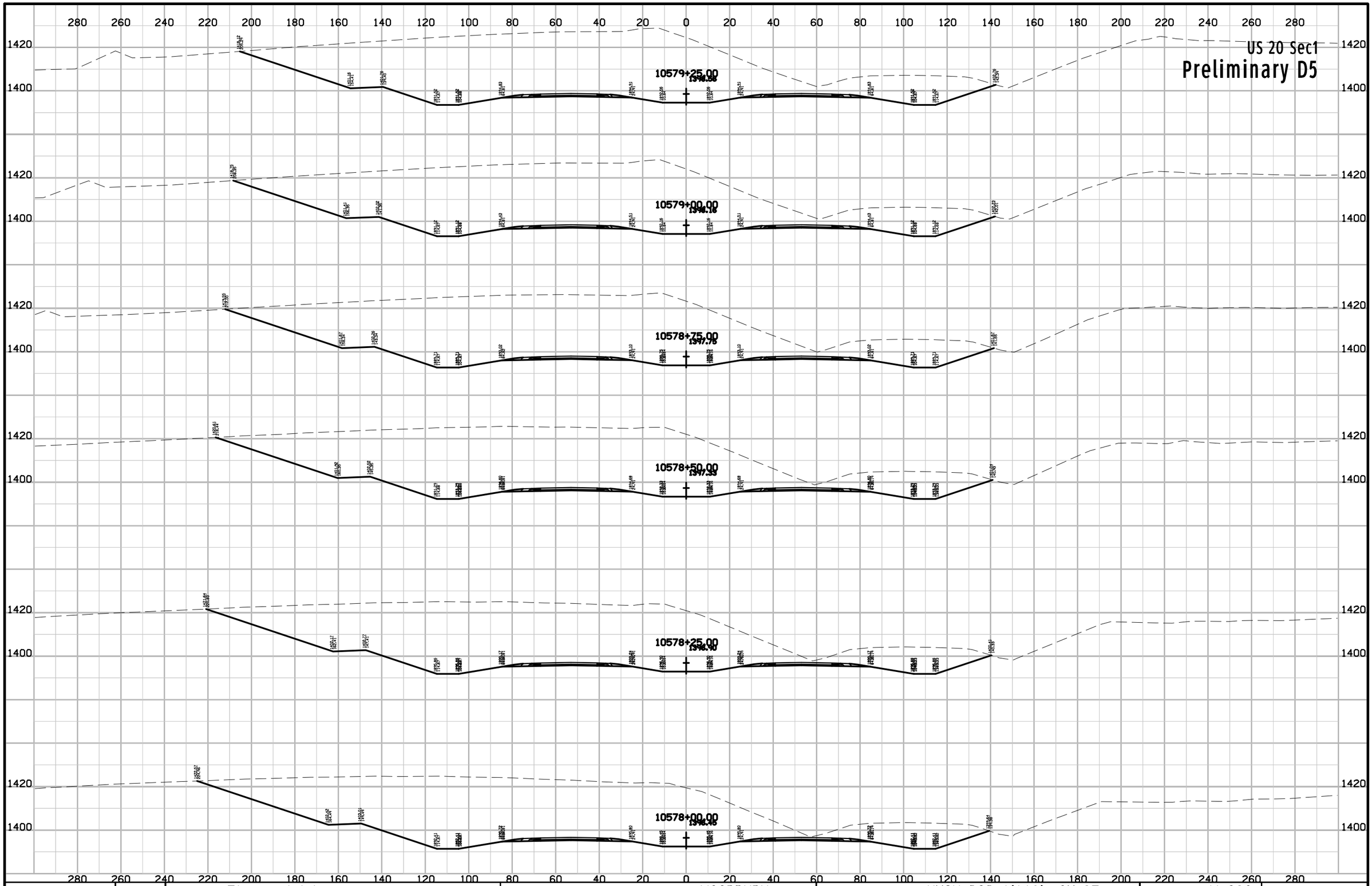
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.293

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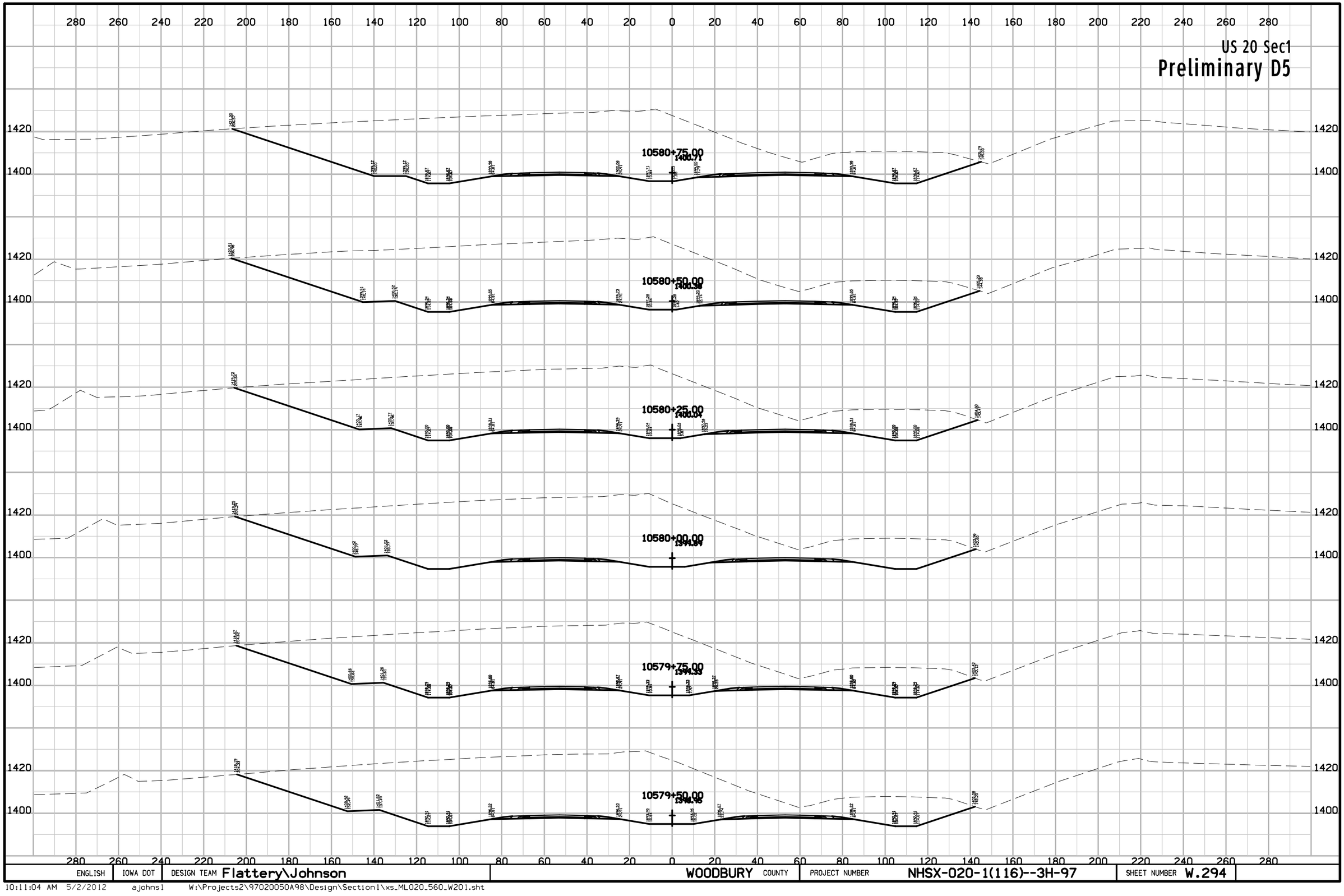
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.294

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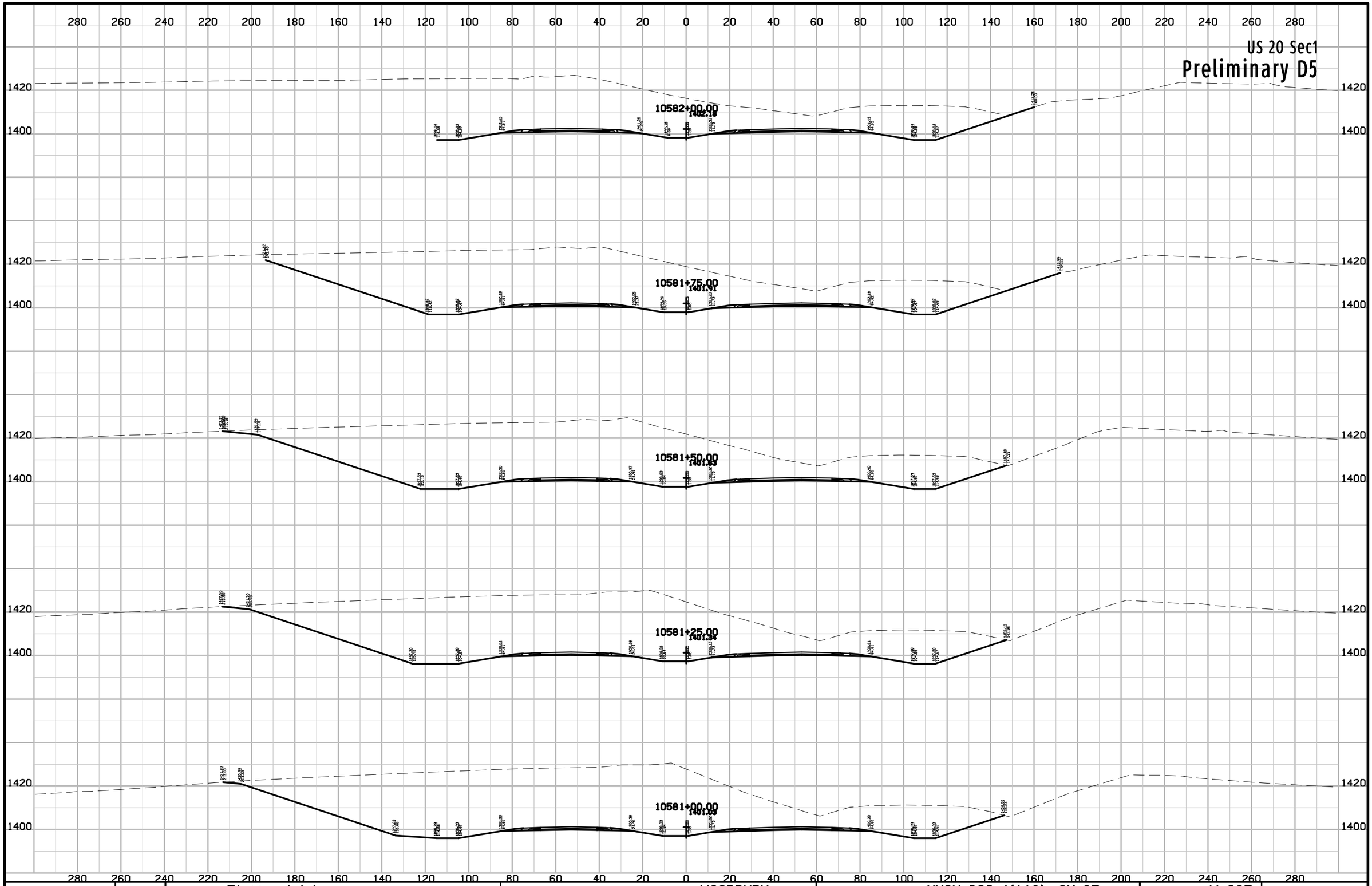
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.295

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US 20 Sec1

Preliminary D5

10583+50.00

10583+25.00

10583+00.00

10582+75.00

10582+50.00

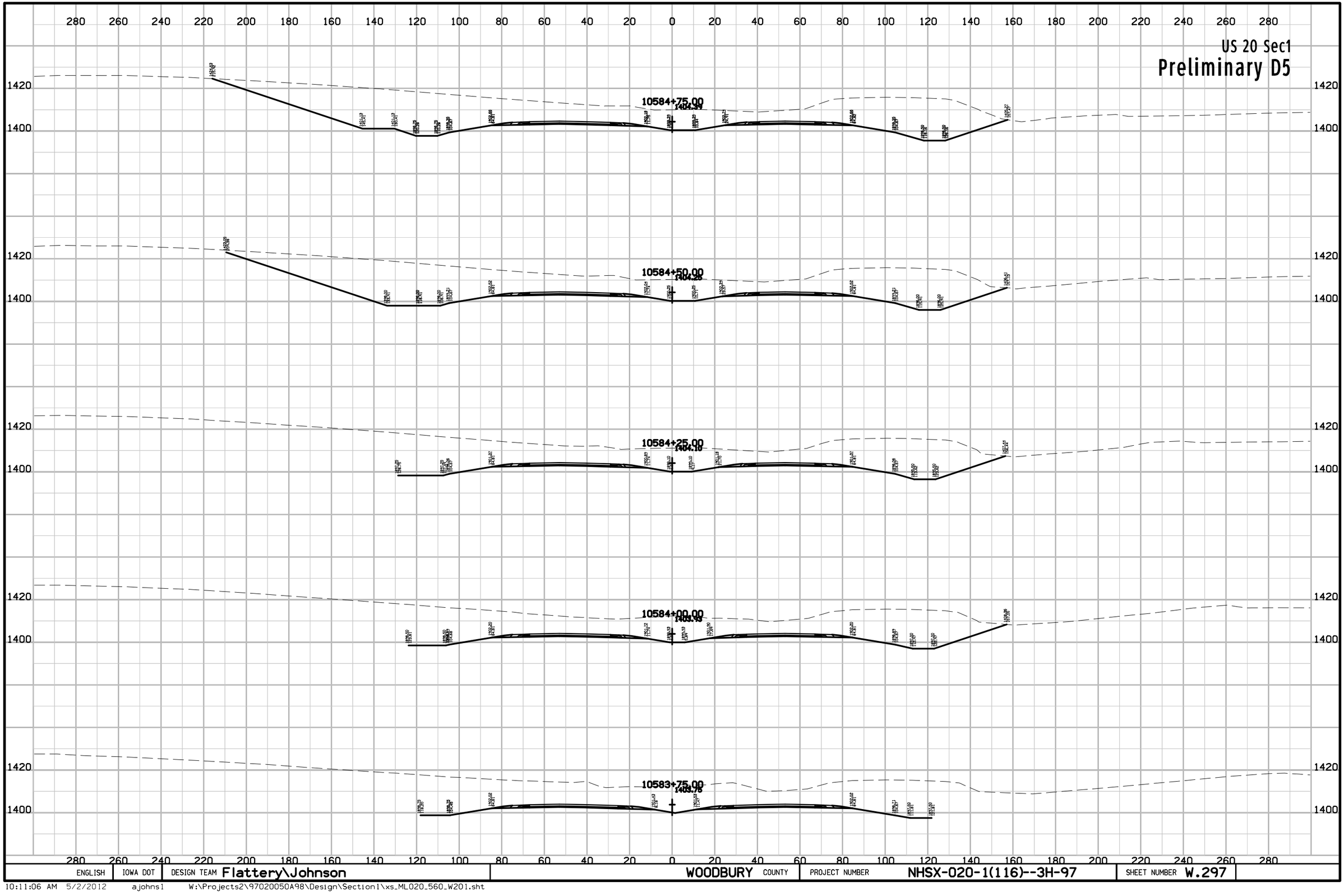
10582+25.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.296

10:11:06 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.297

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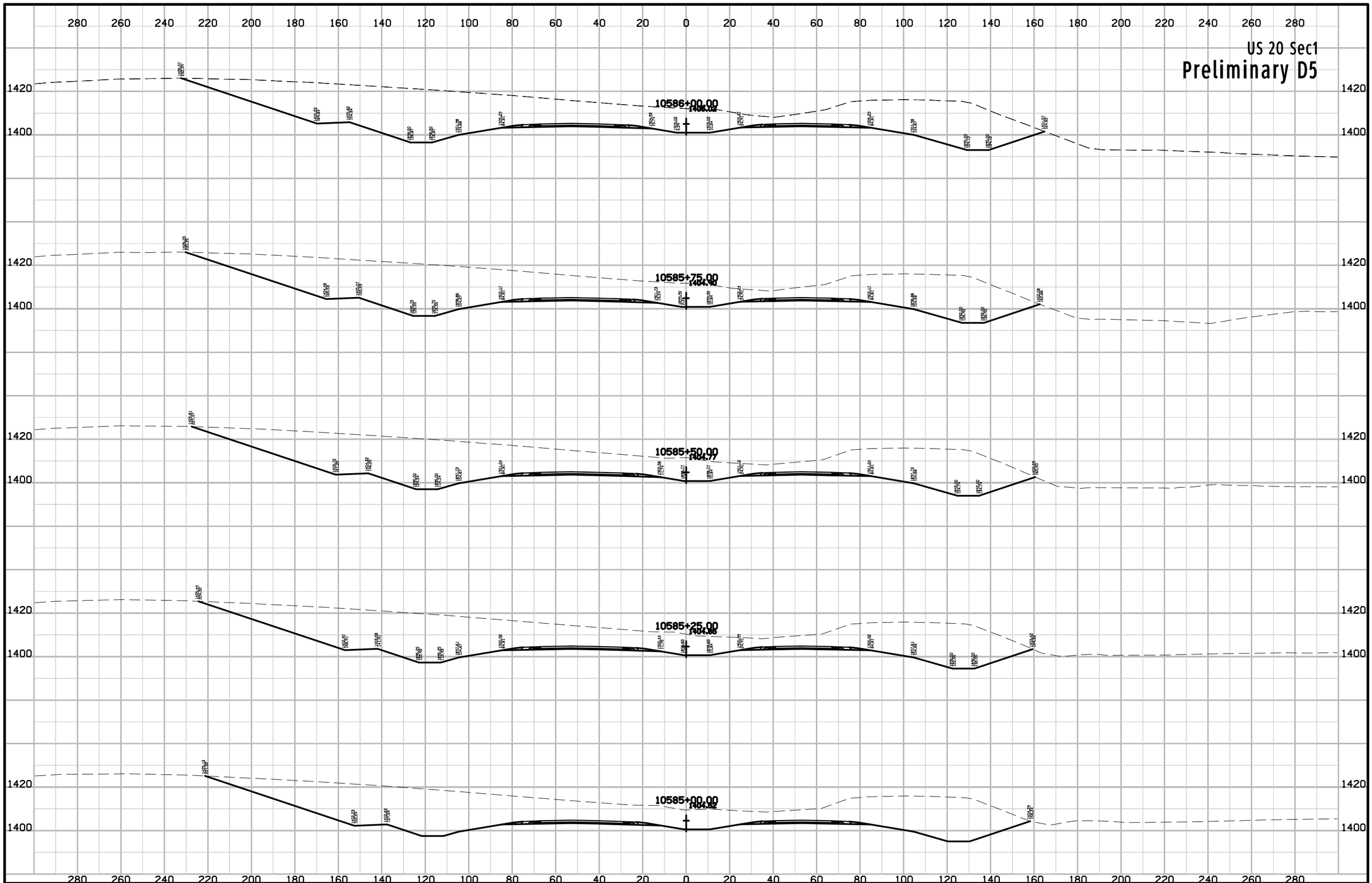
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.298

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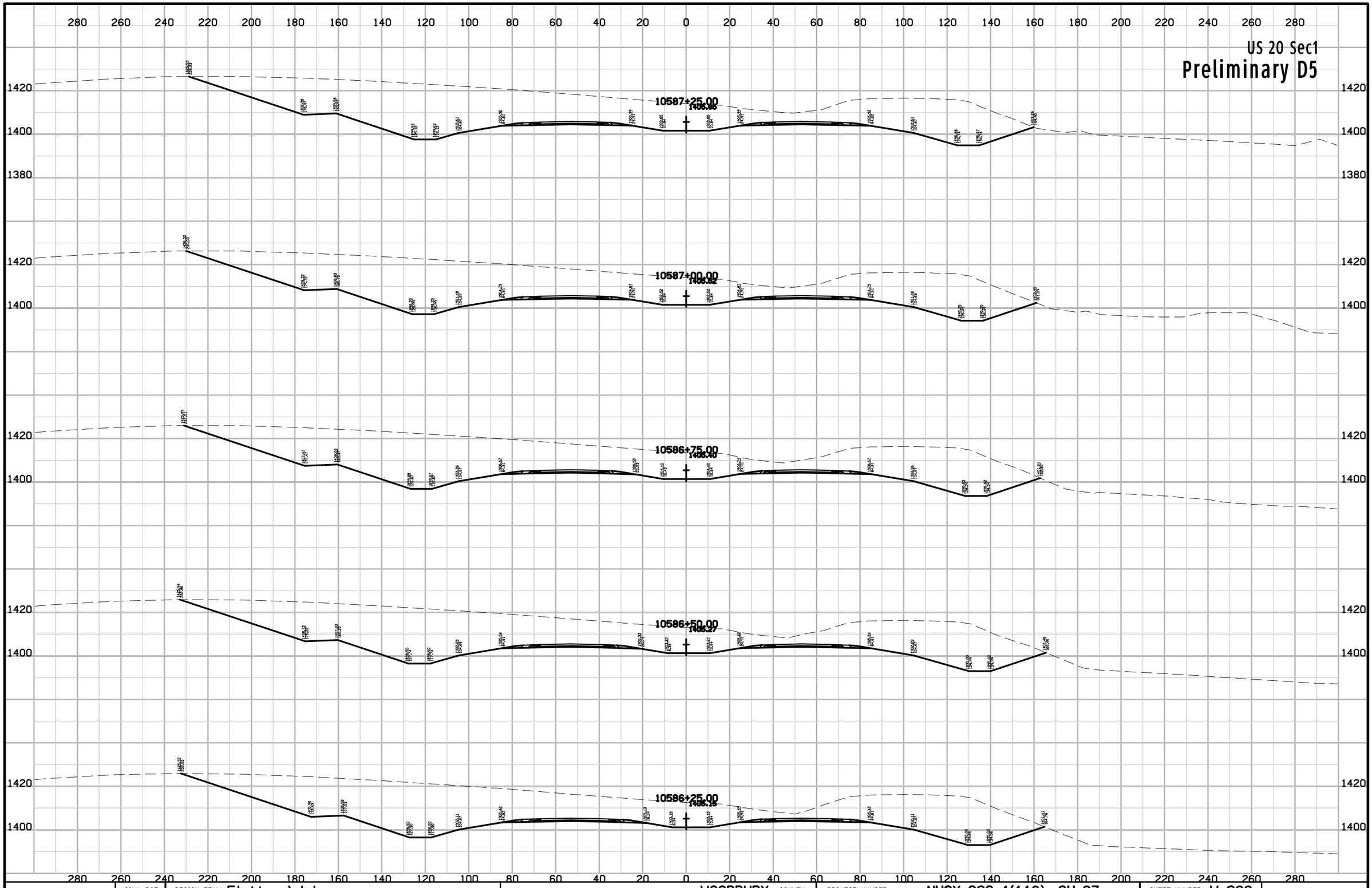
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.299

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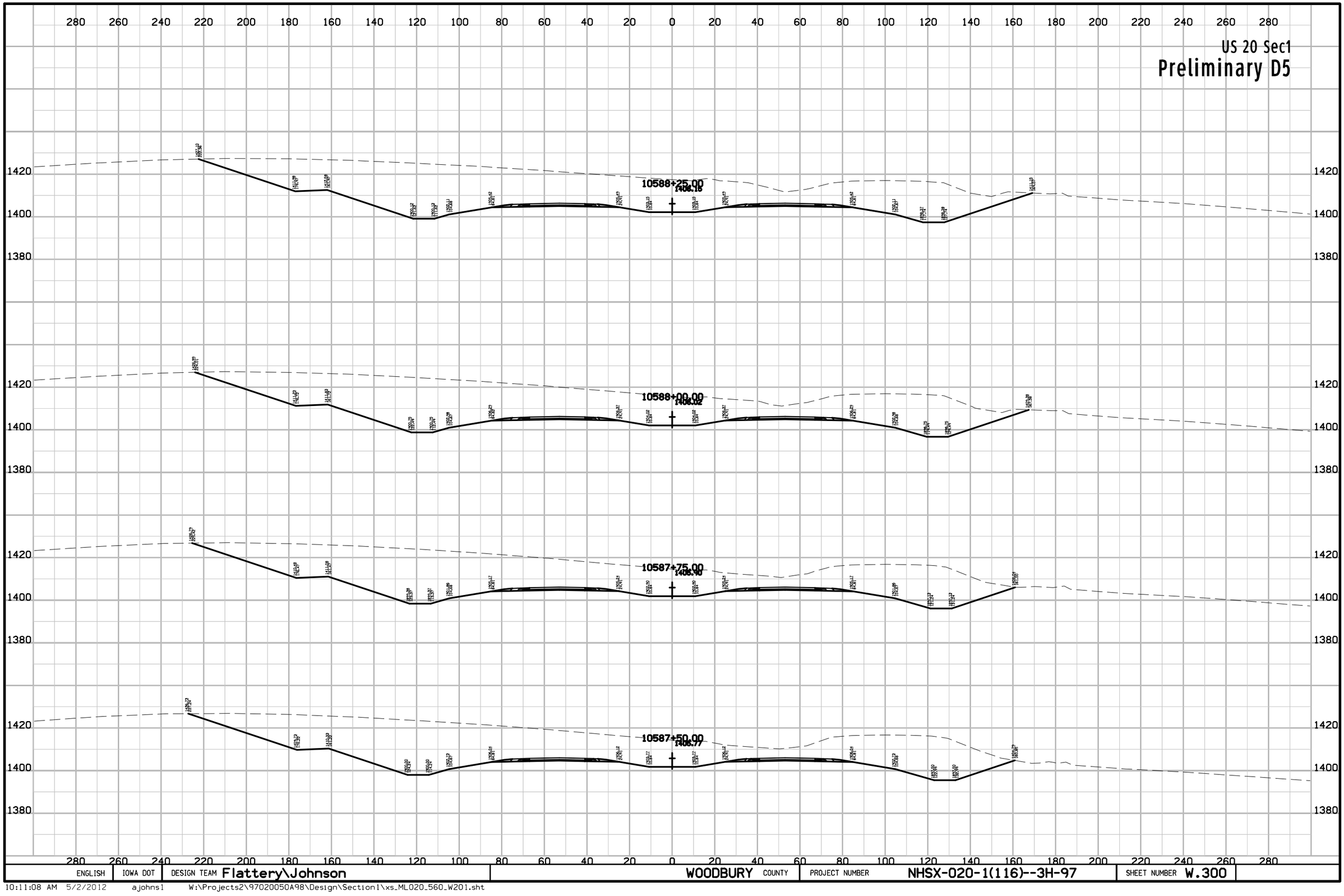
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.300

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US 20 Sec1

Preliminary D5

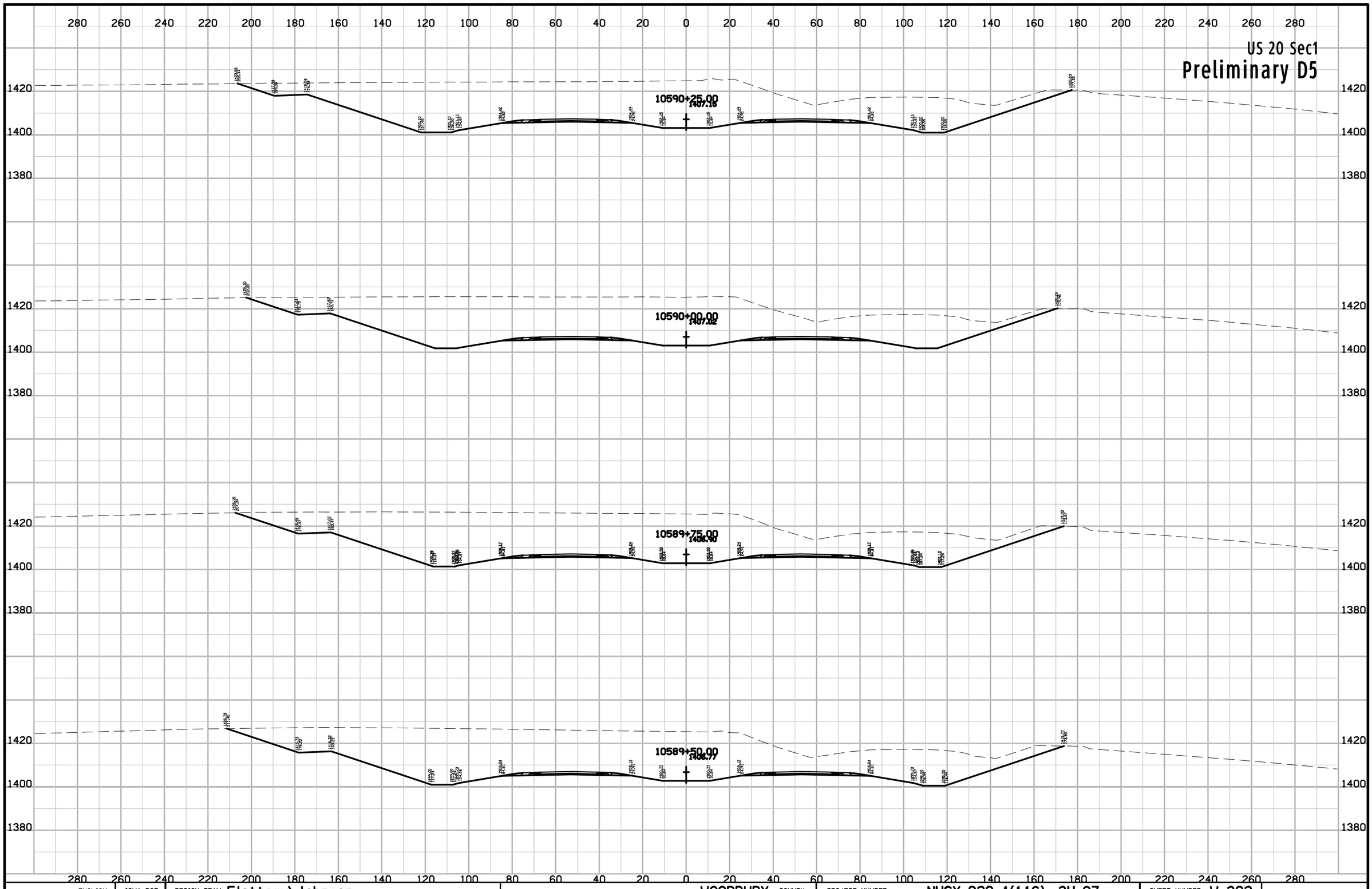


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.301

10:13:02 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.302

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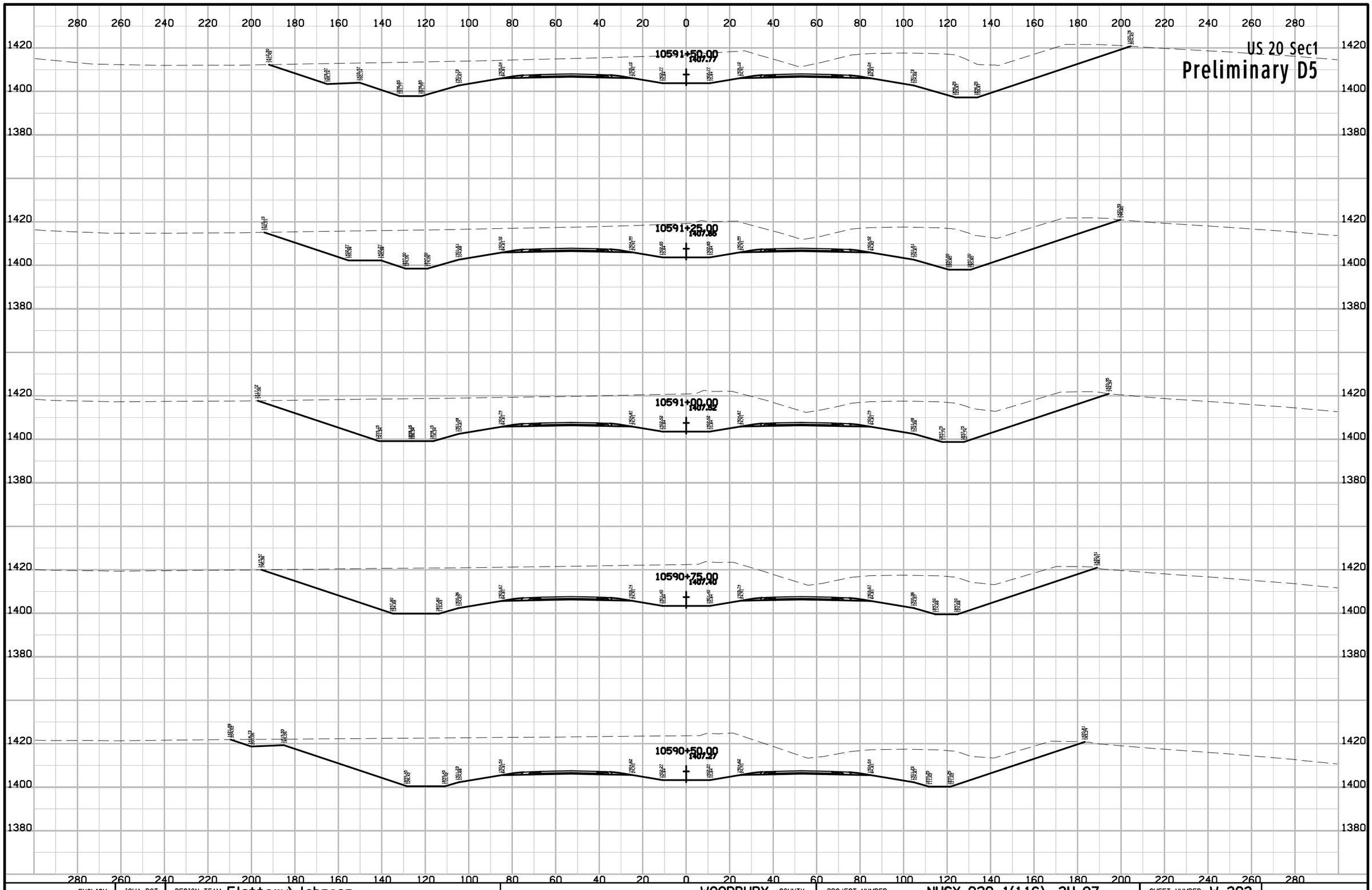
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.303

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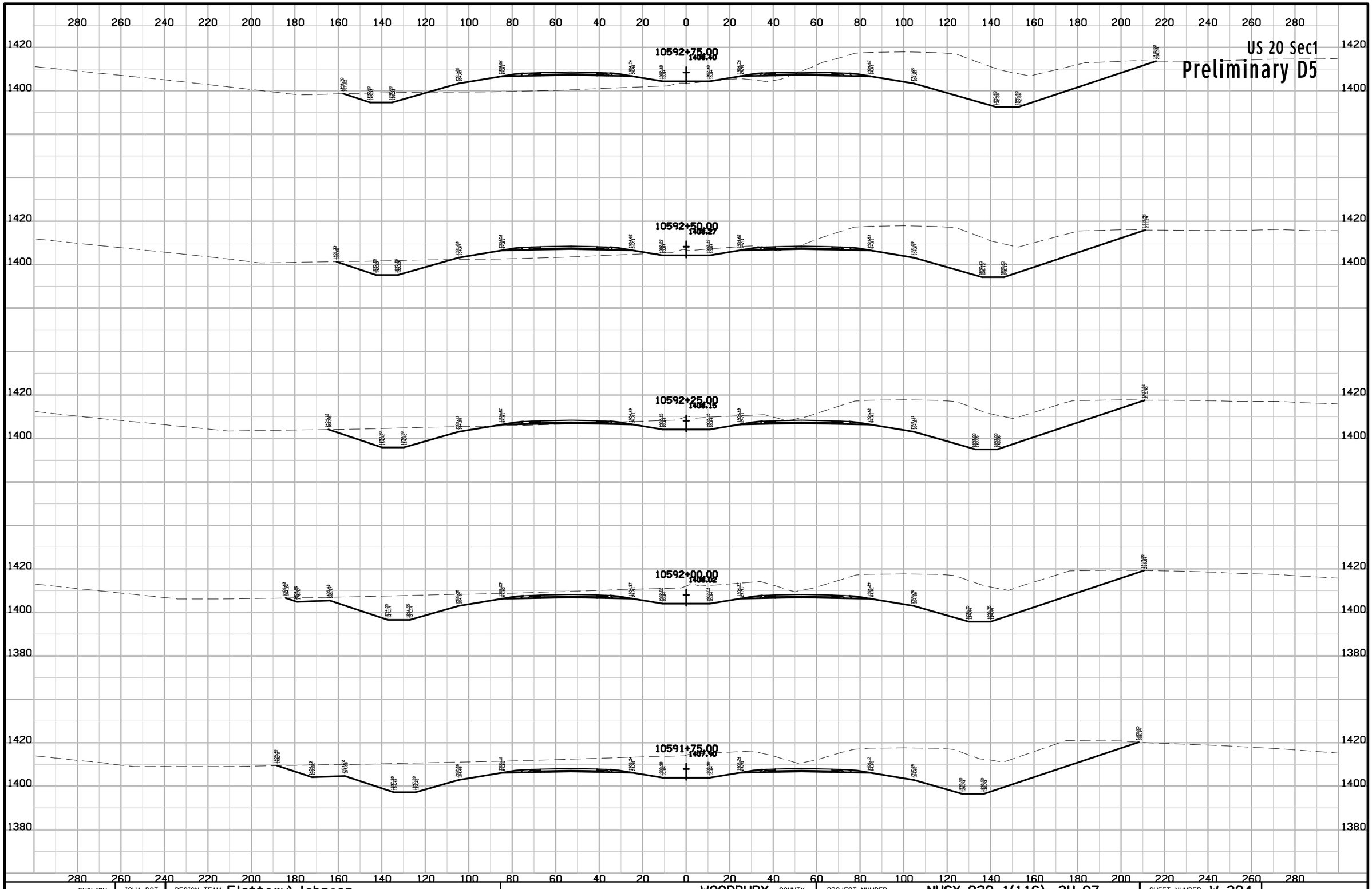
US 20 Sec1

Preliminary D5



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US 20 Sec1

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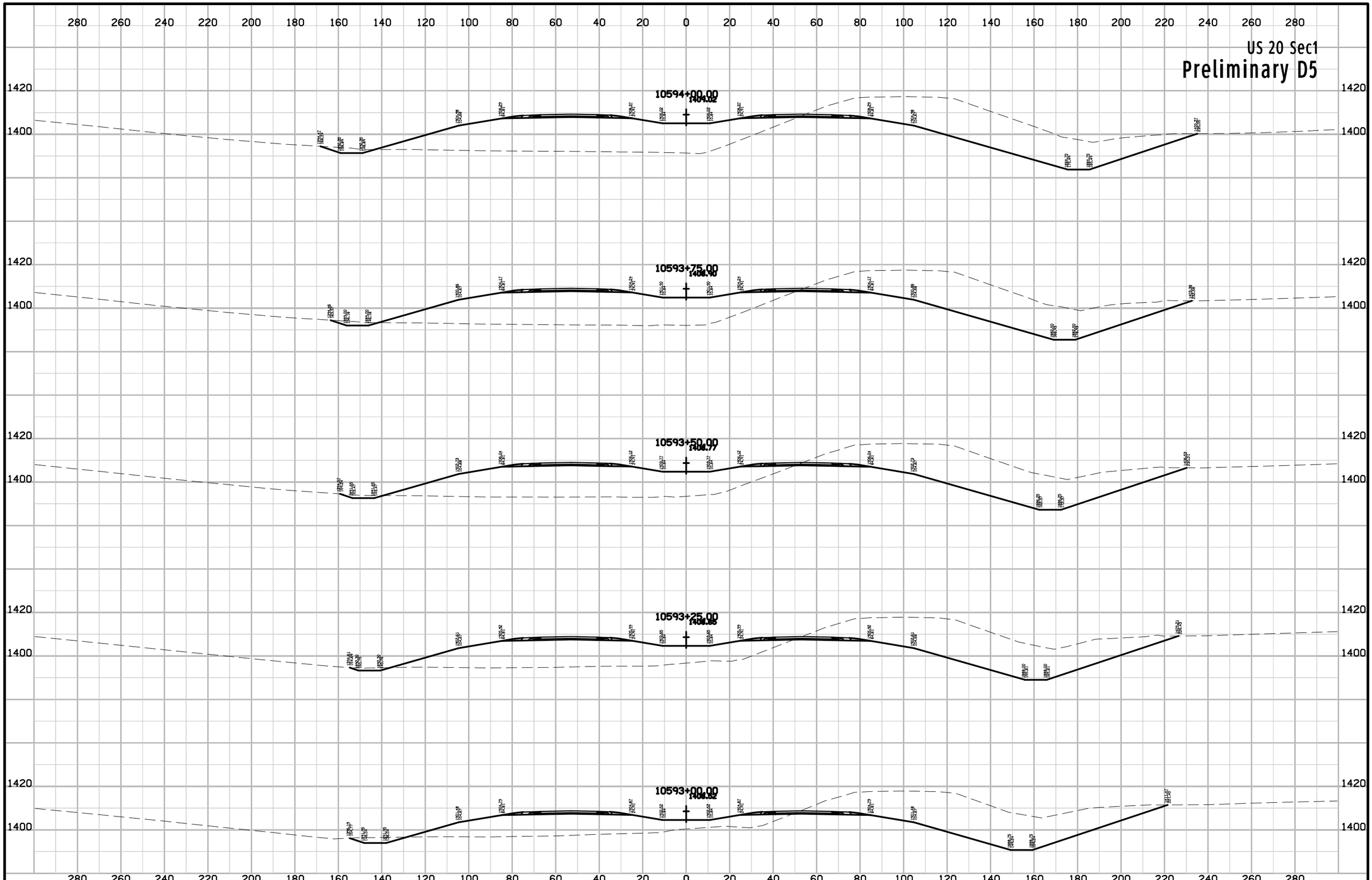

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.305

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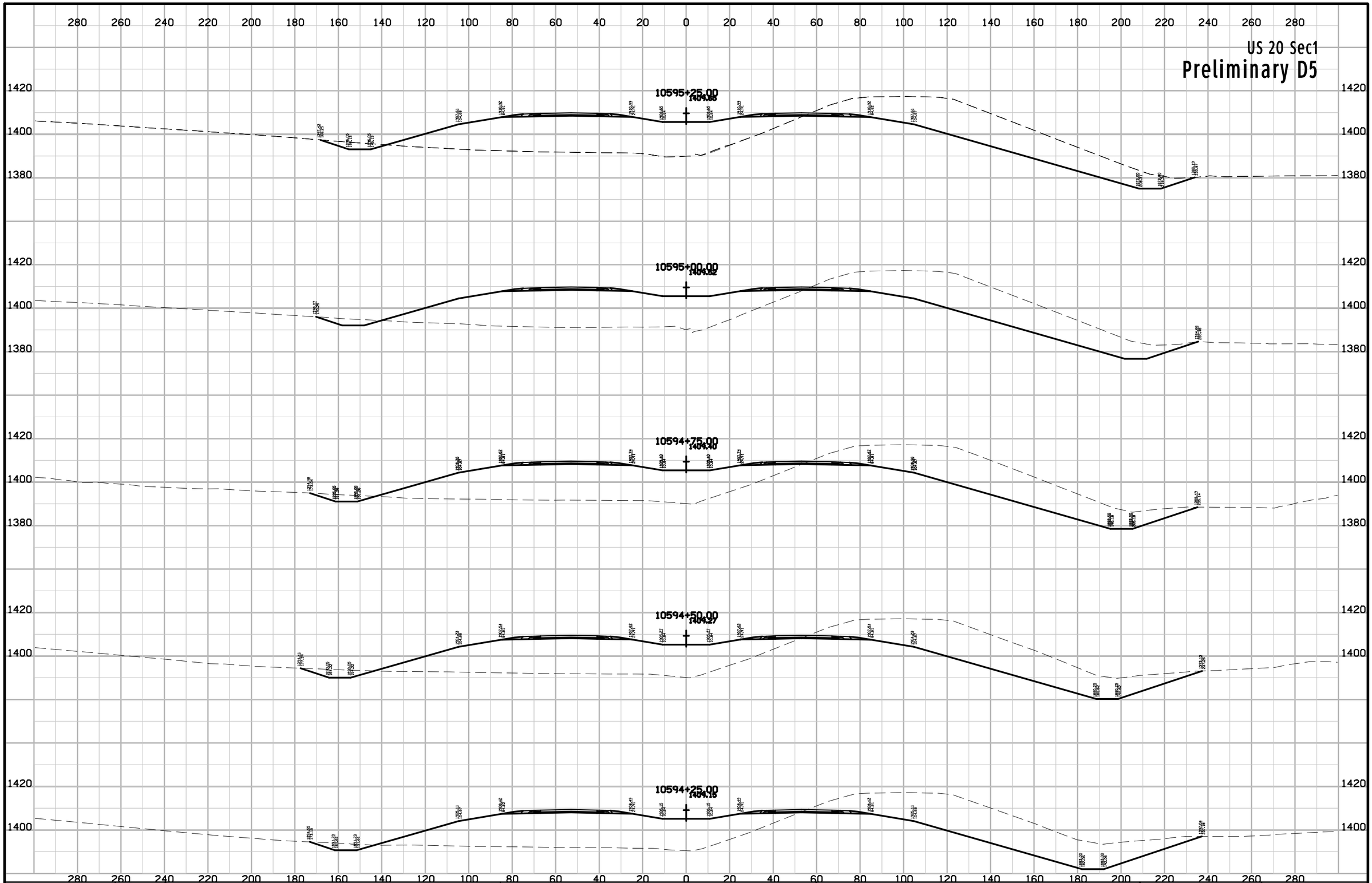
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.306

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US 20 Sec1

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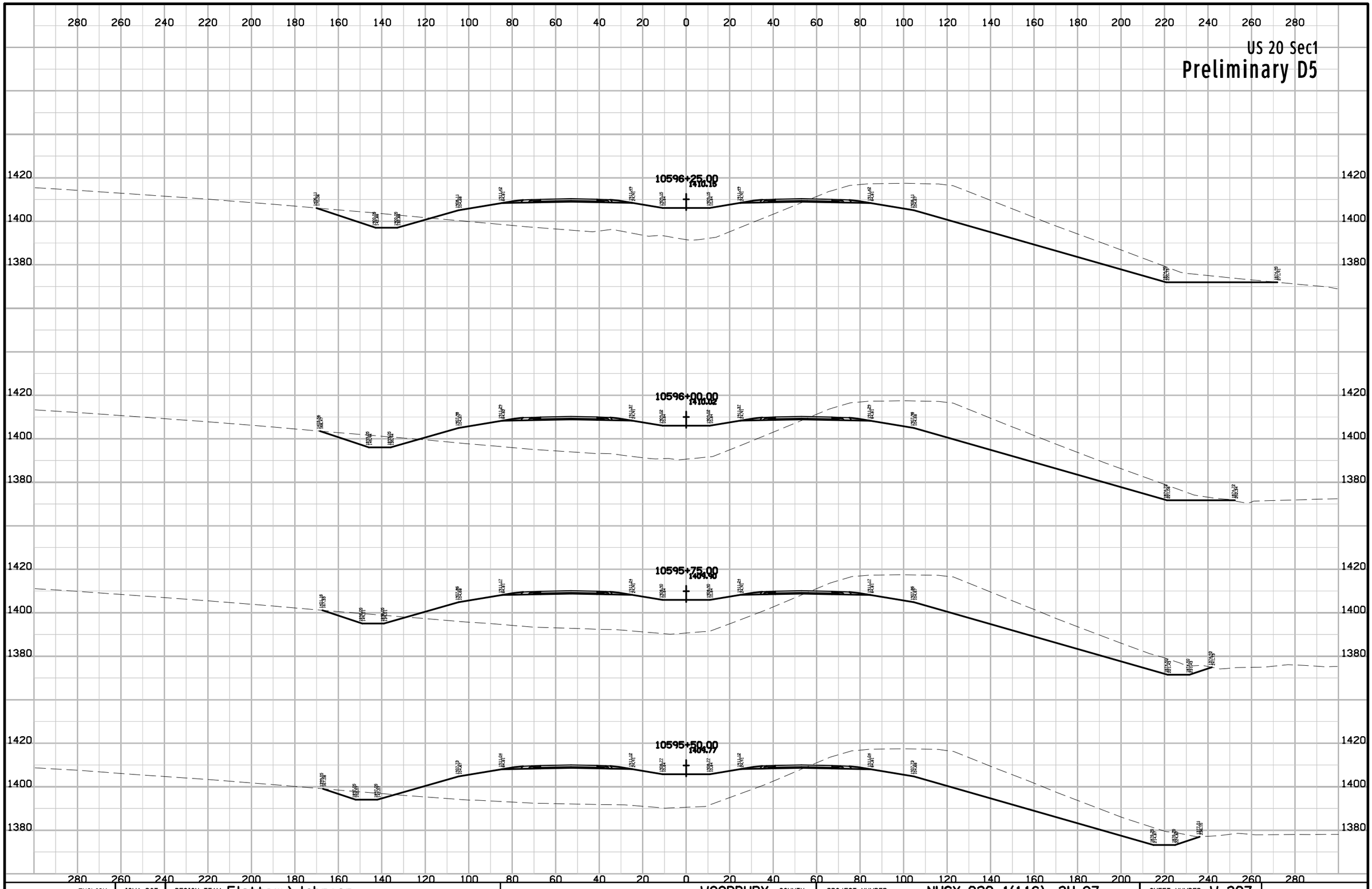

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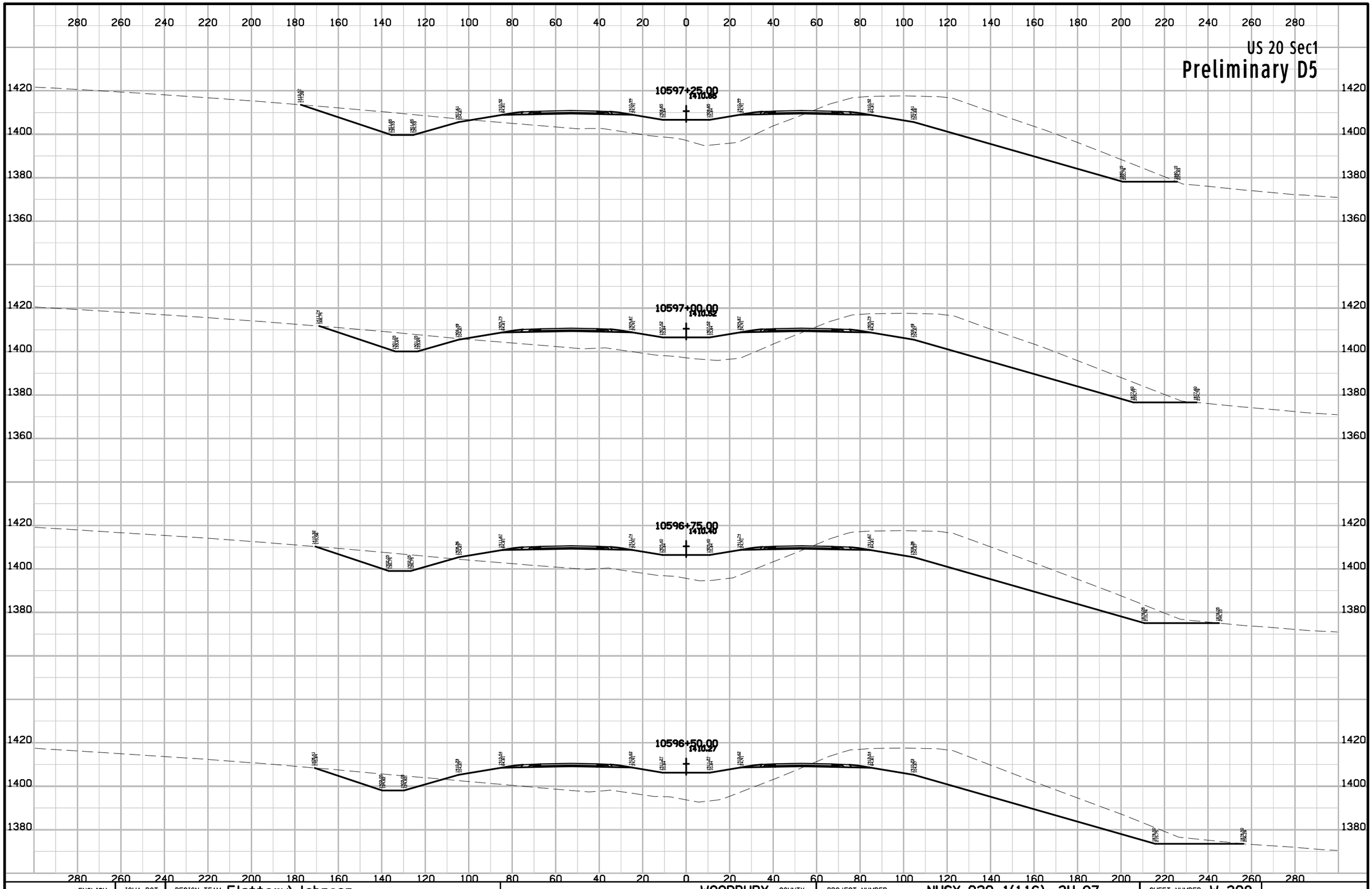
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.308

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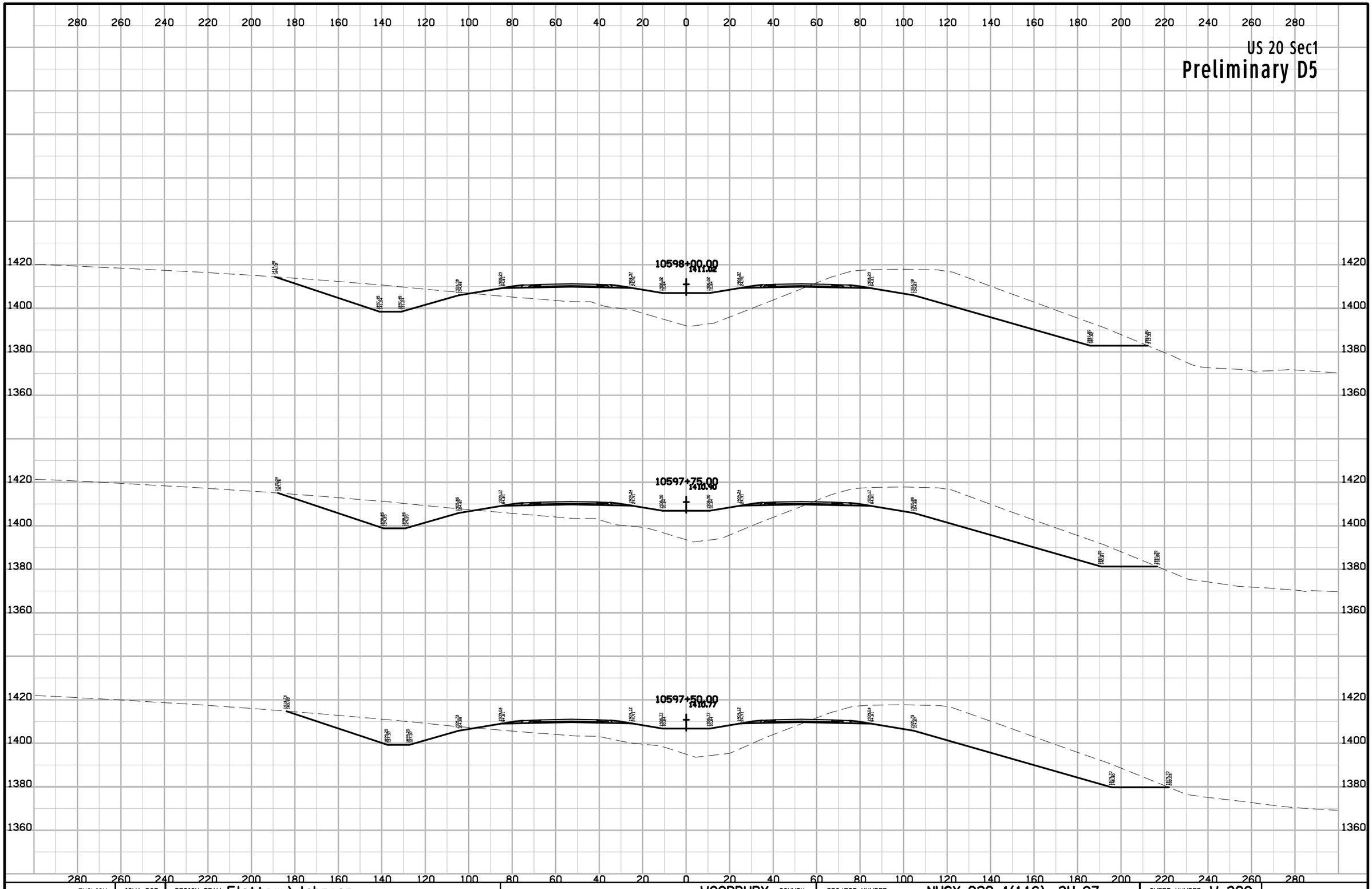
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.309

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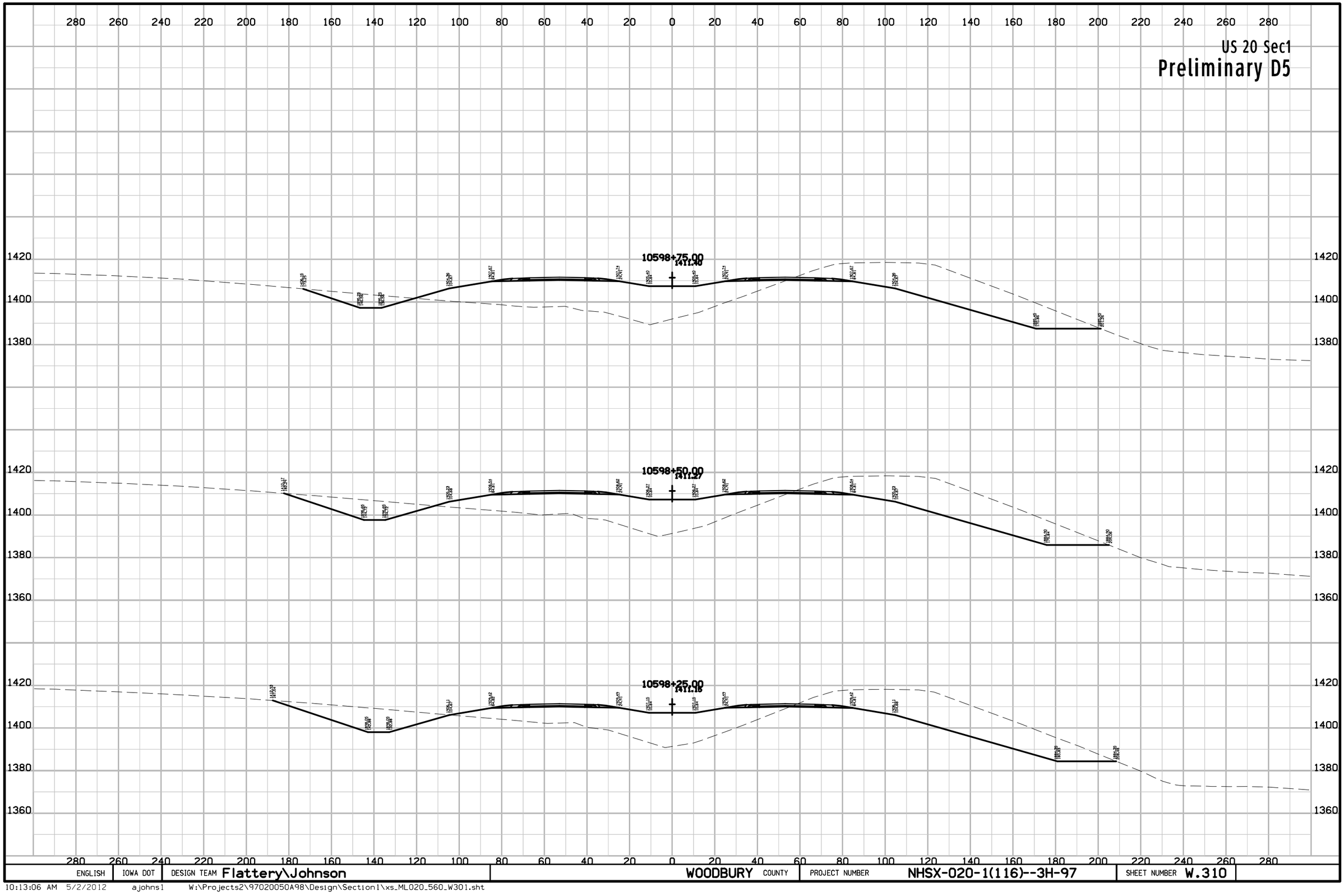
US 20 Sec1

Preliminary D5



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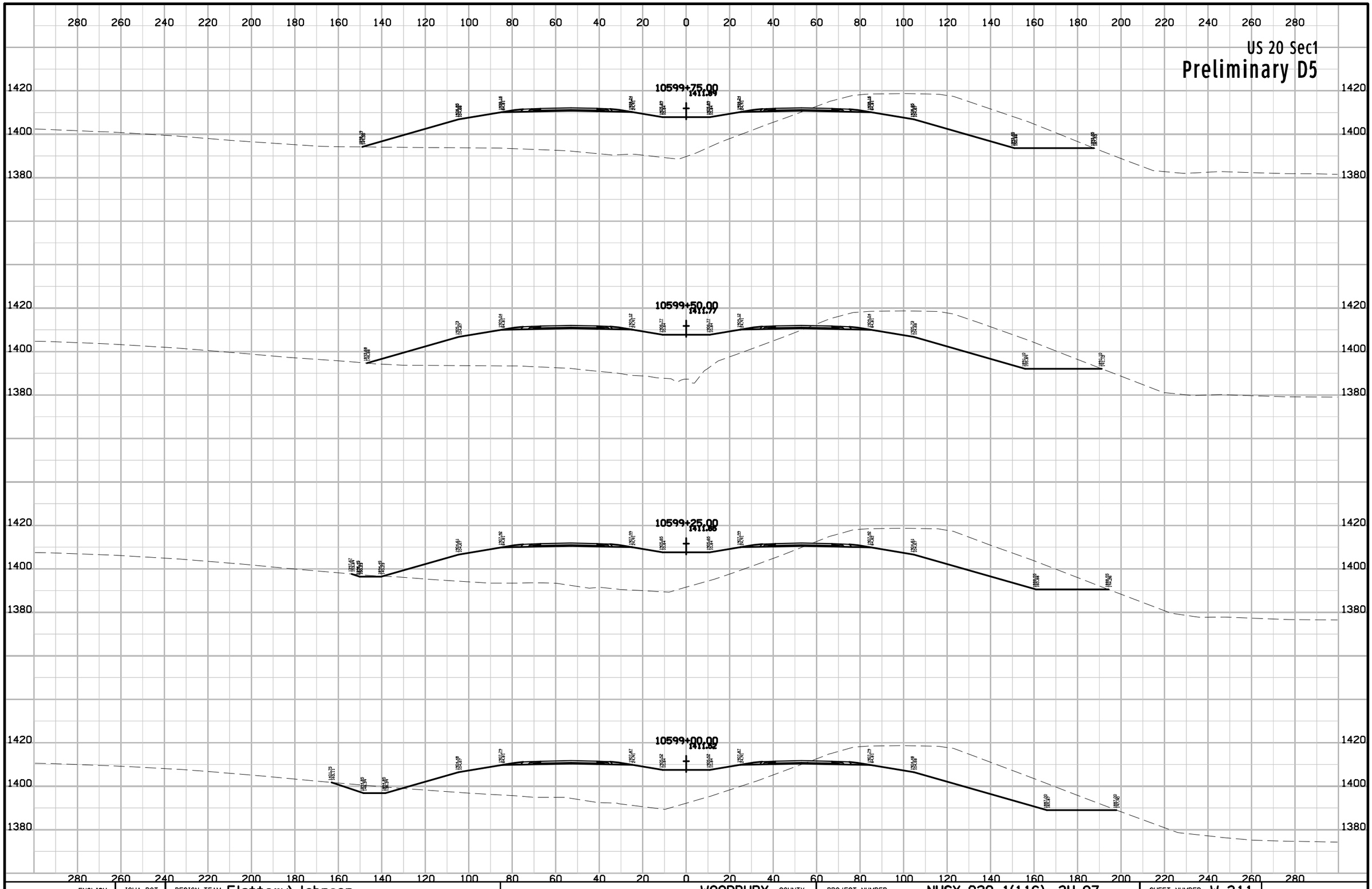
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.311

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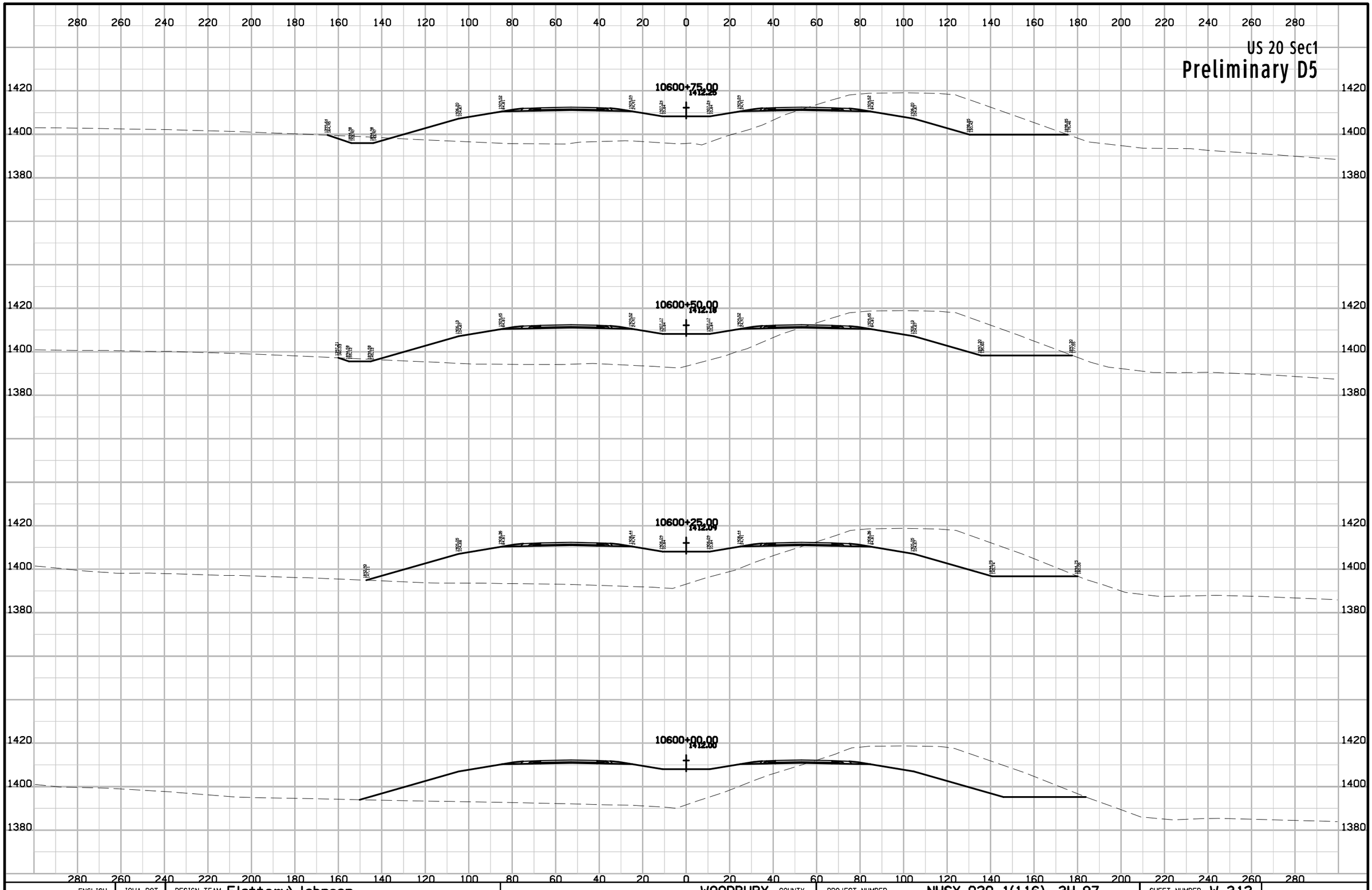
US 20 Sec1

Preliminary D5



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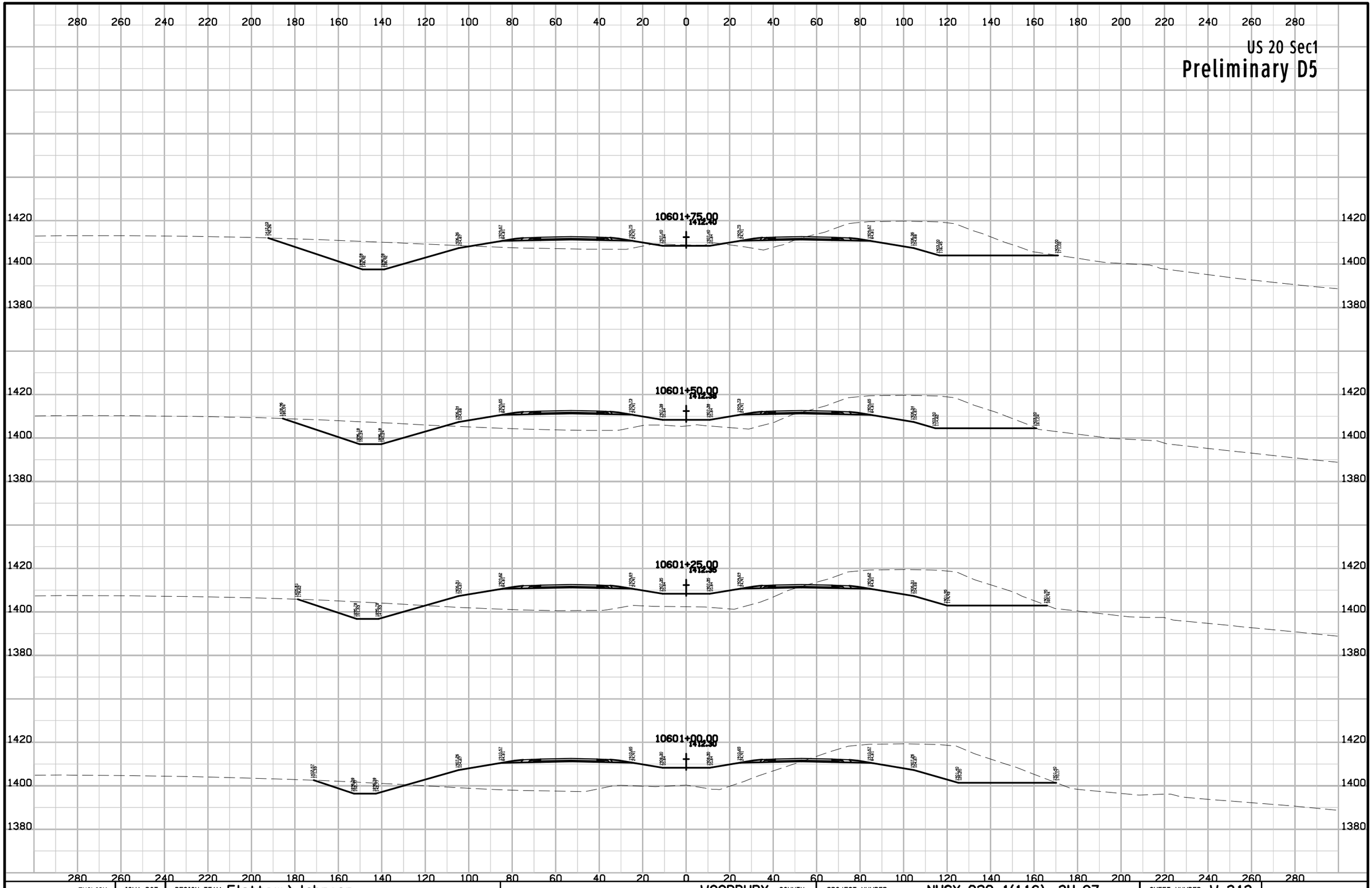
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.313

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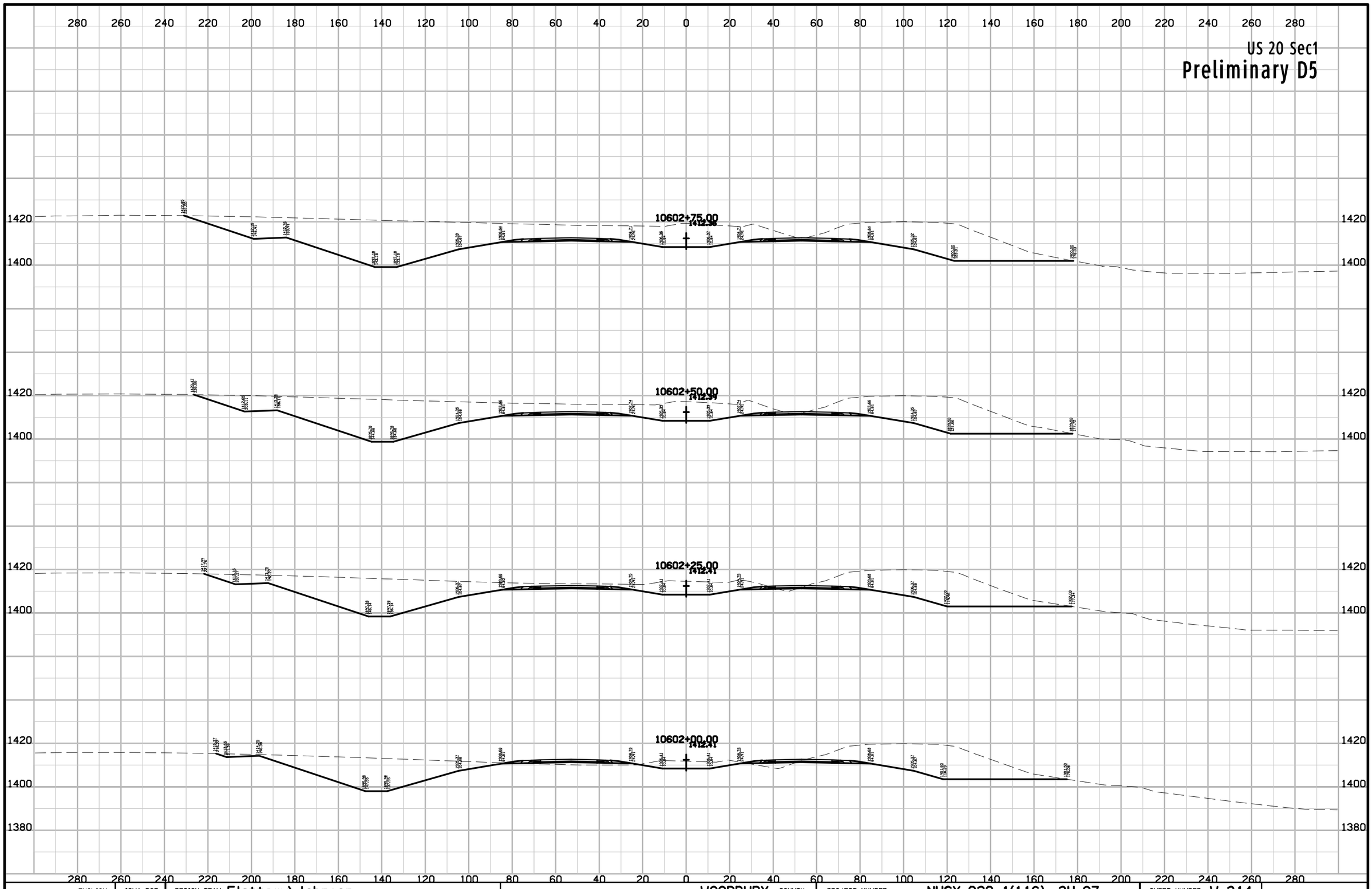
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.314

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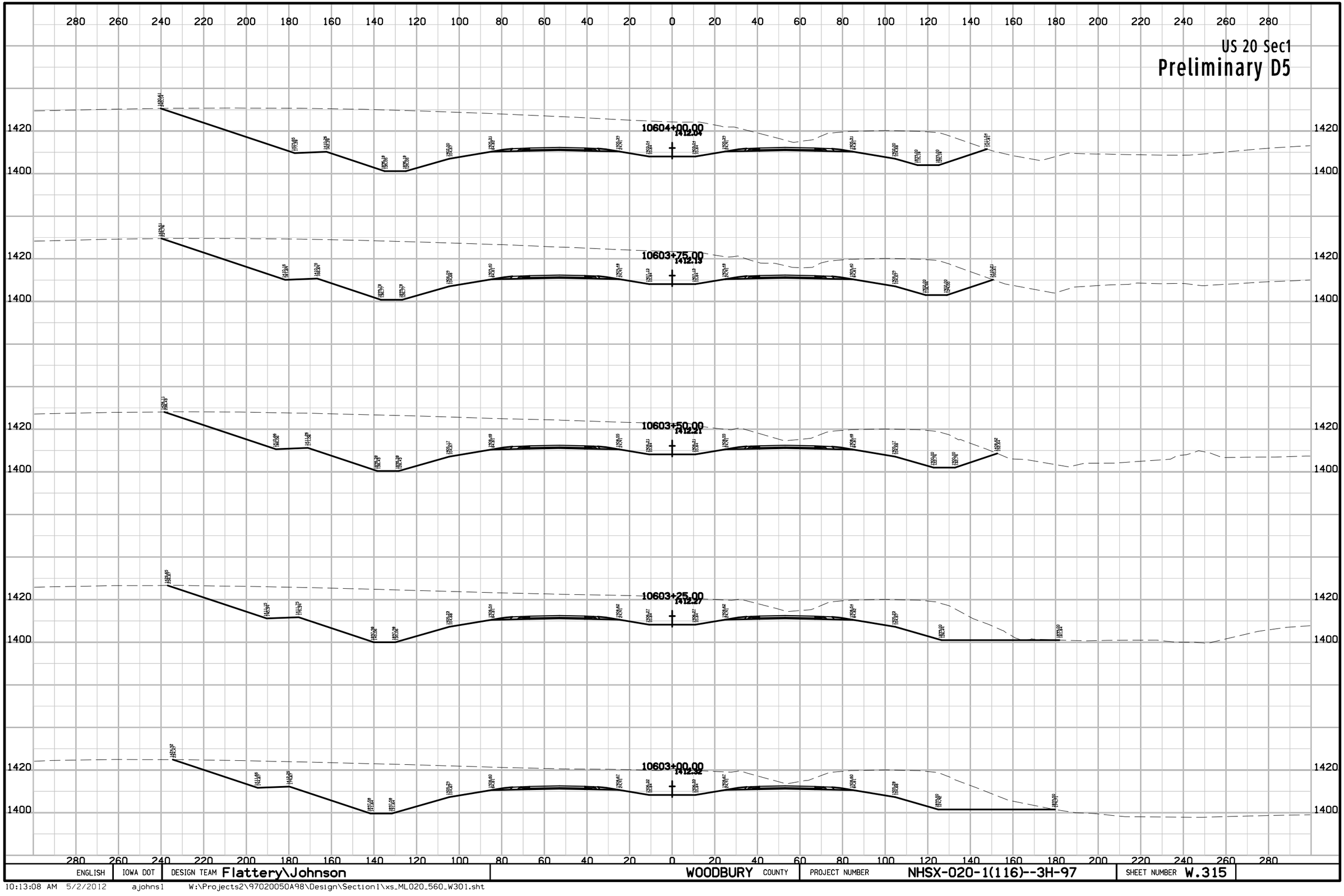
US 20 Sec1

Preliminary D5



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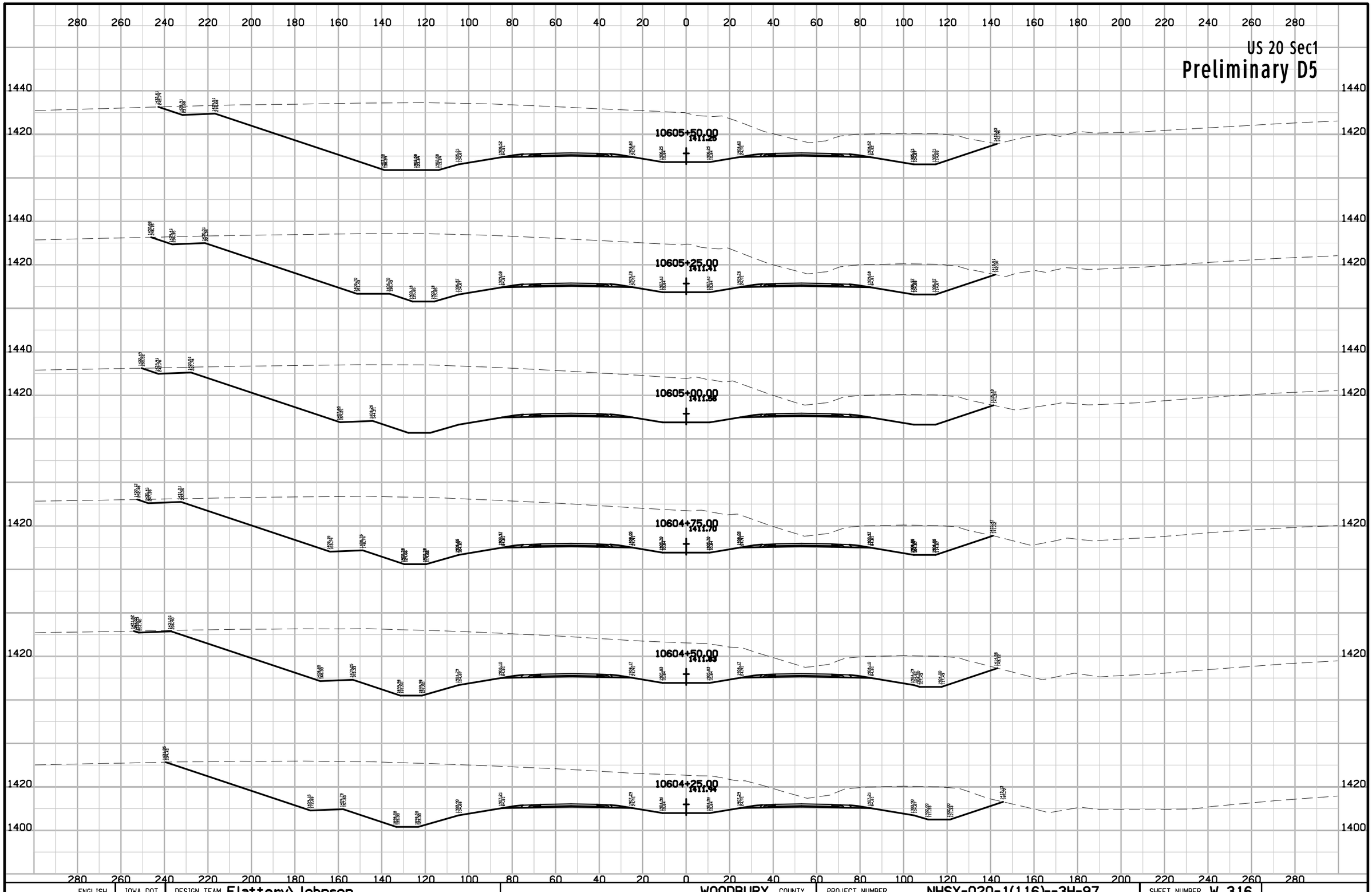
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.316

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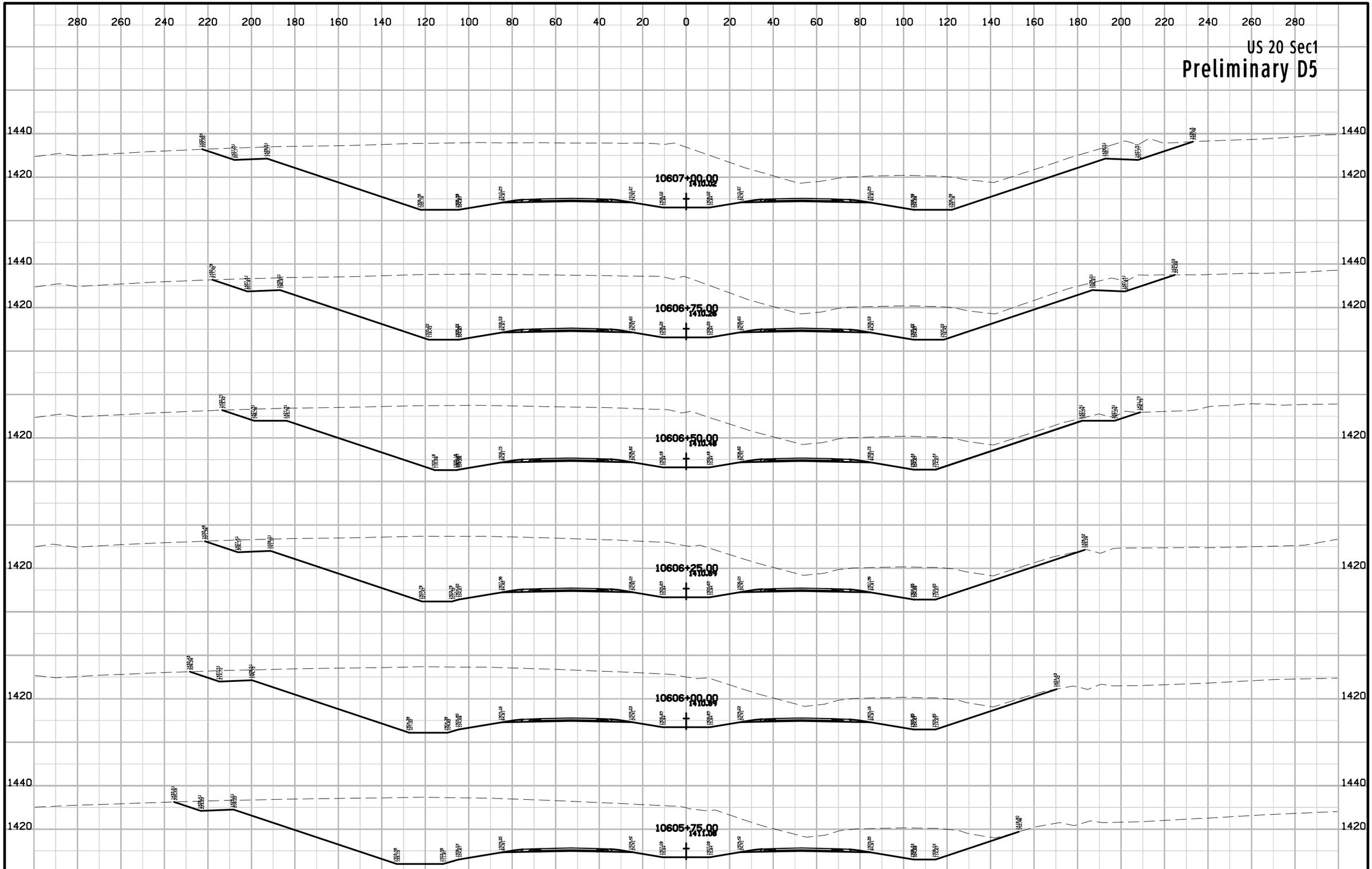
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.317

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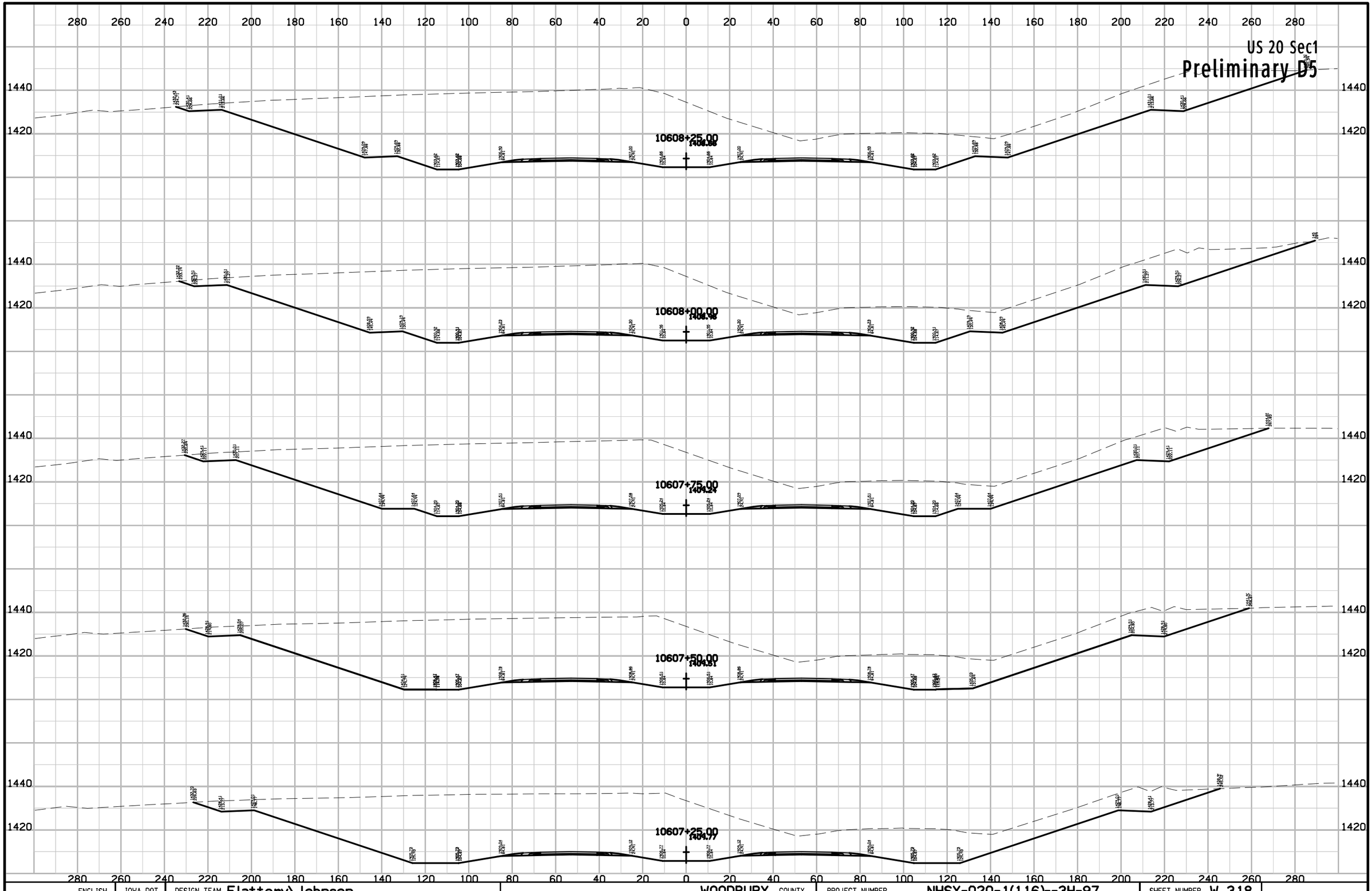
US 20 Sec1

Preliminary D5



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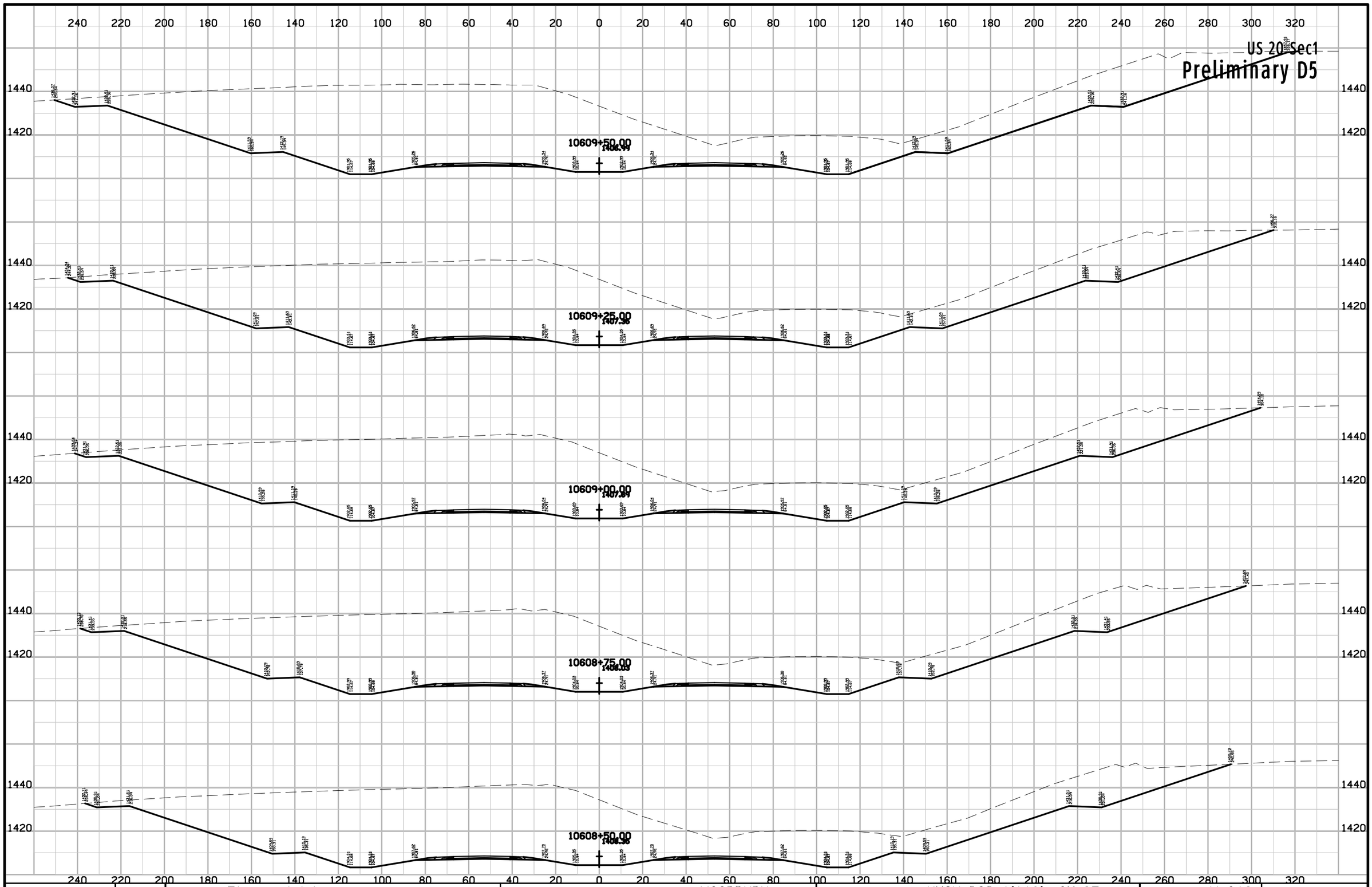
US 20 Sec1

Preliminary D5



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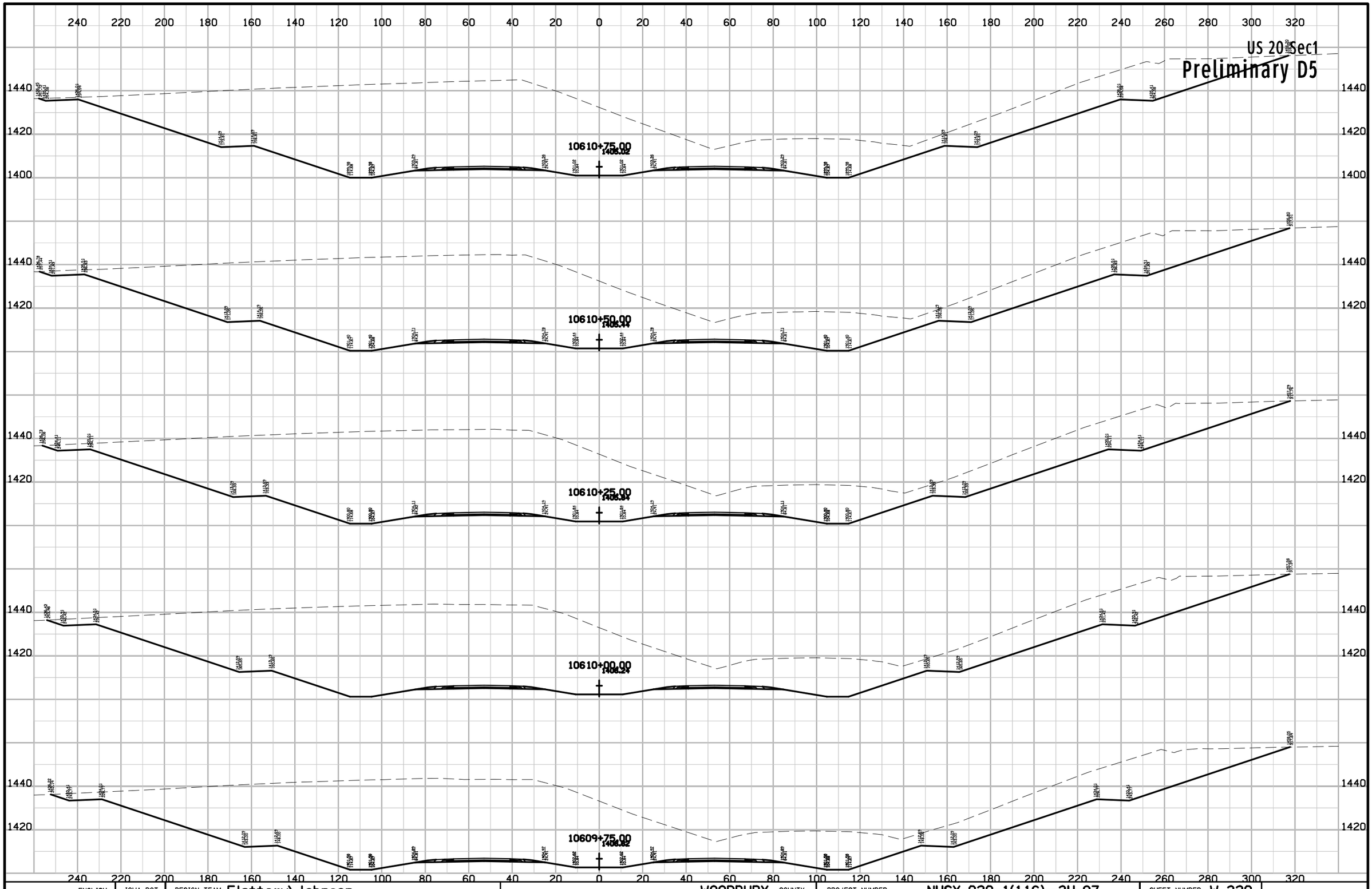
US 20 Sec1

Preliminary D5



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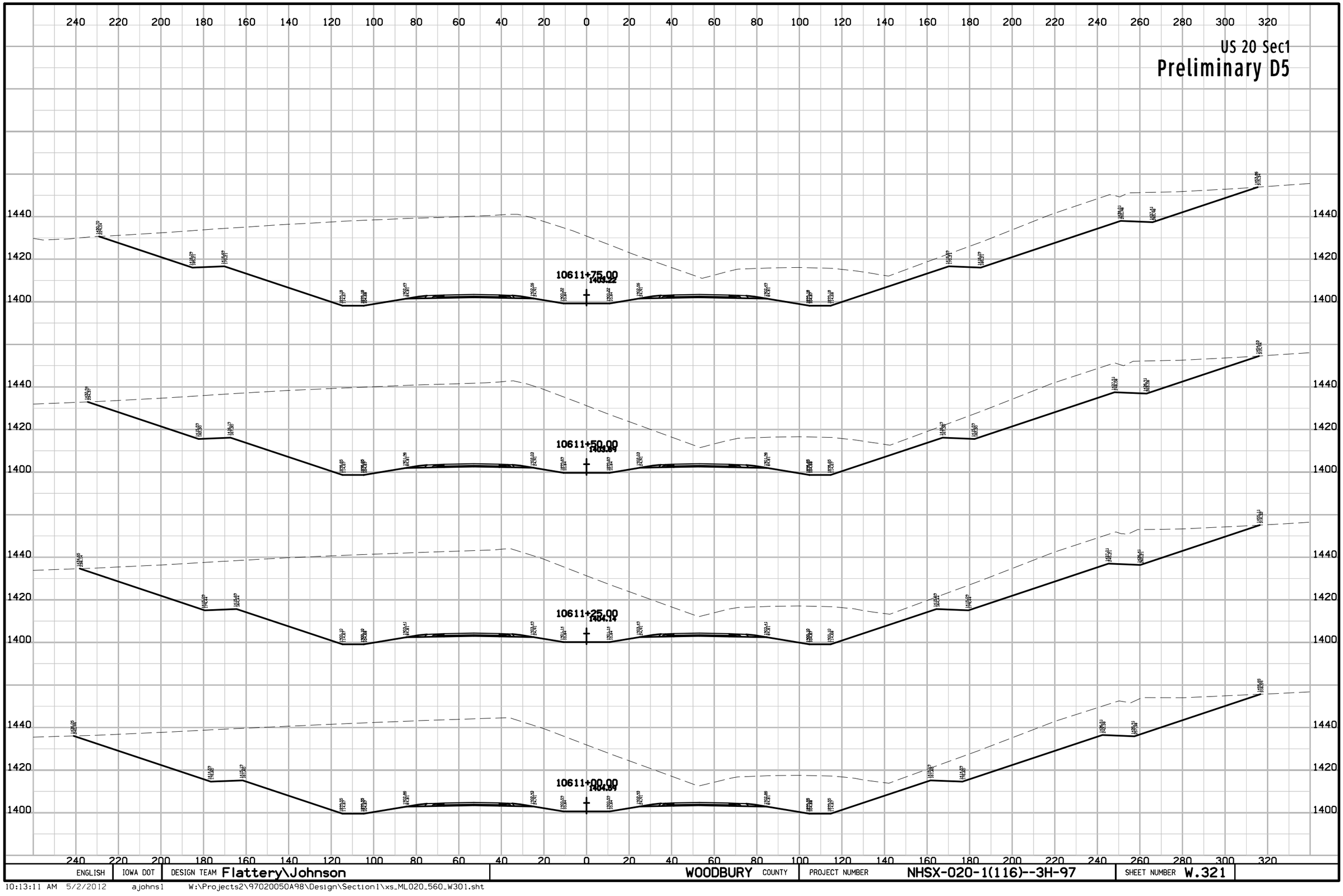
US 20 Sec1

Preliminary D5



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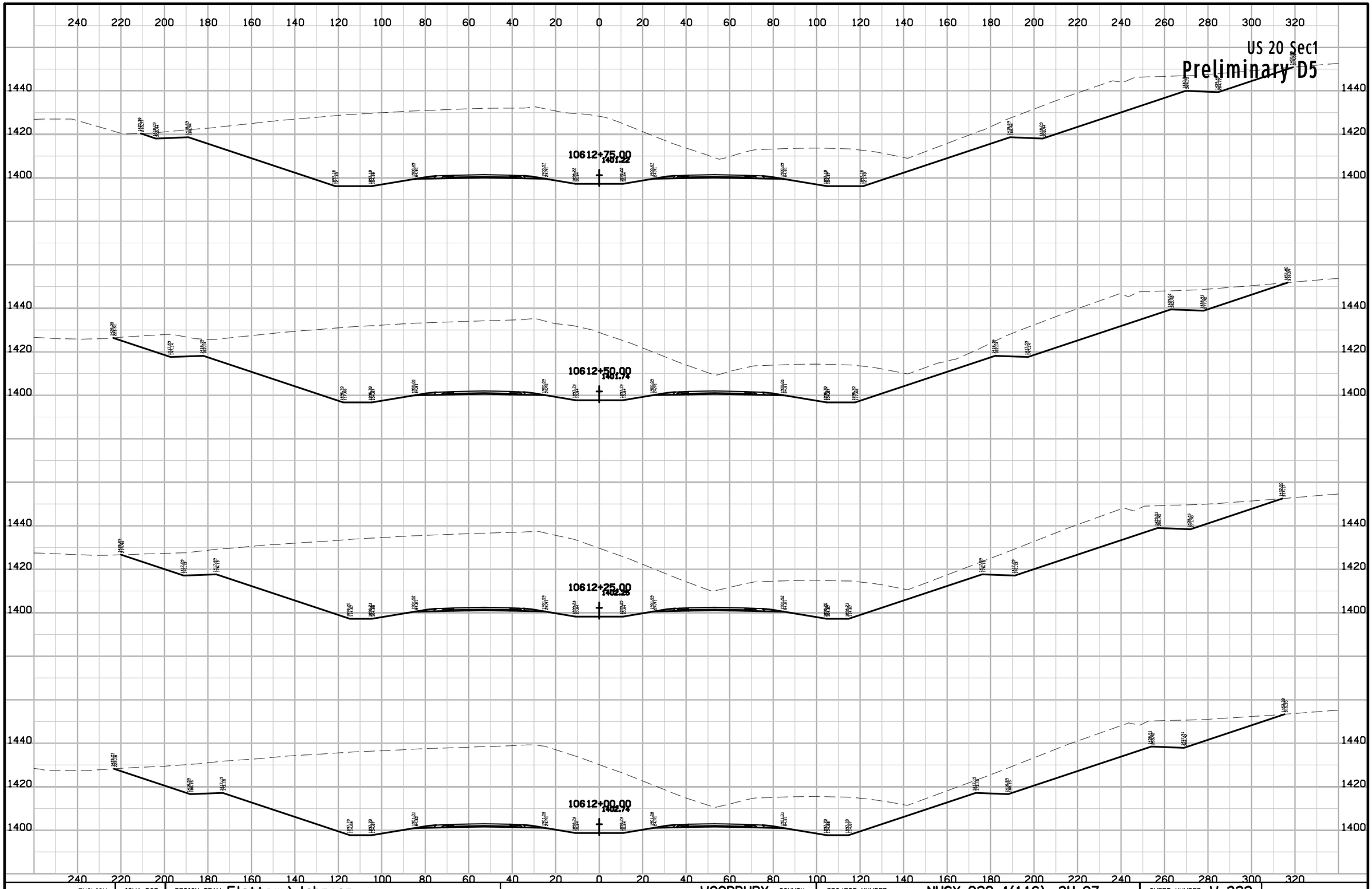
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.322

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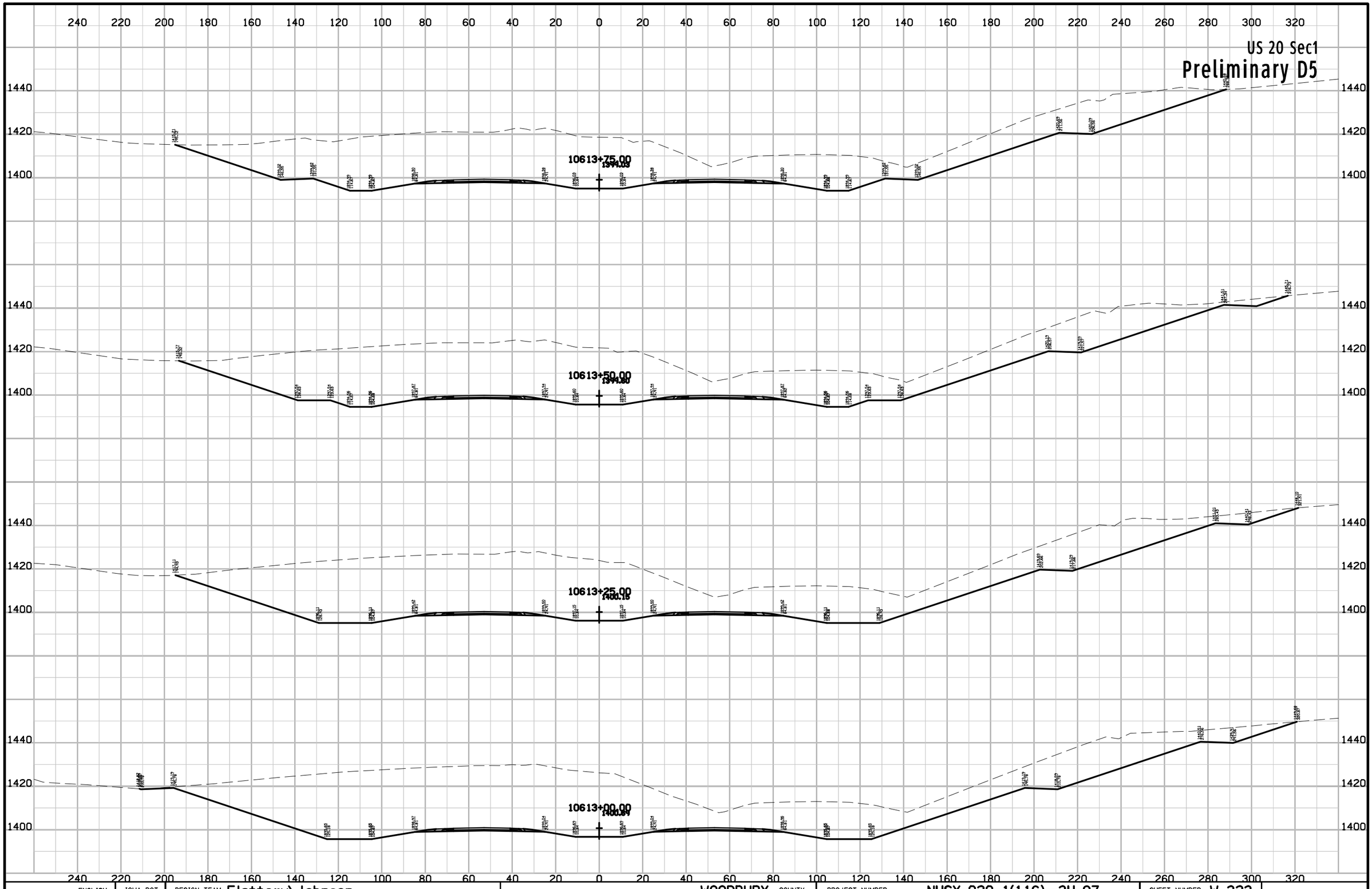
US 20 Sec1

Preliminary D5



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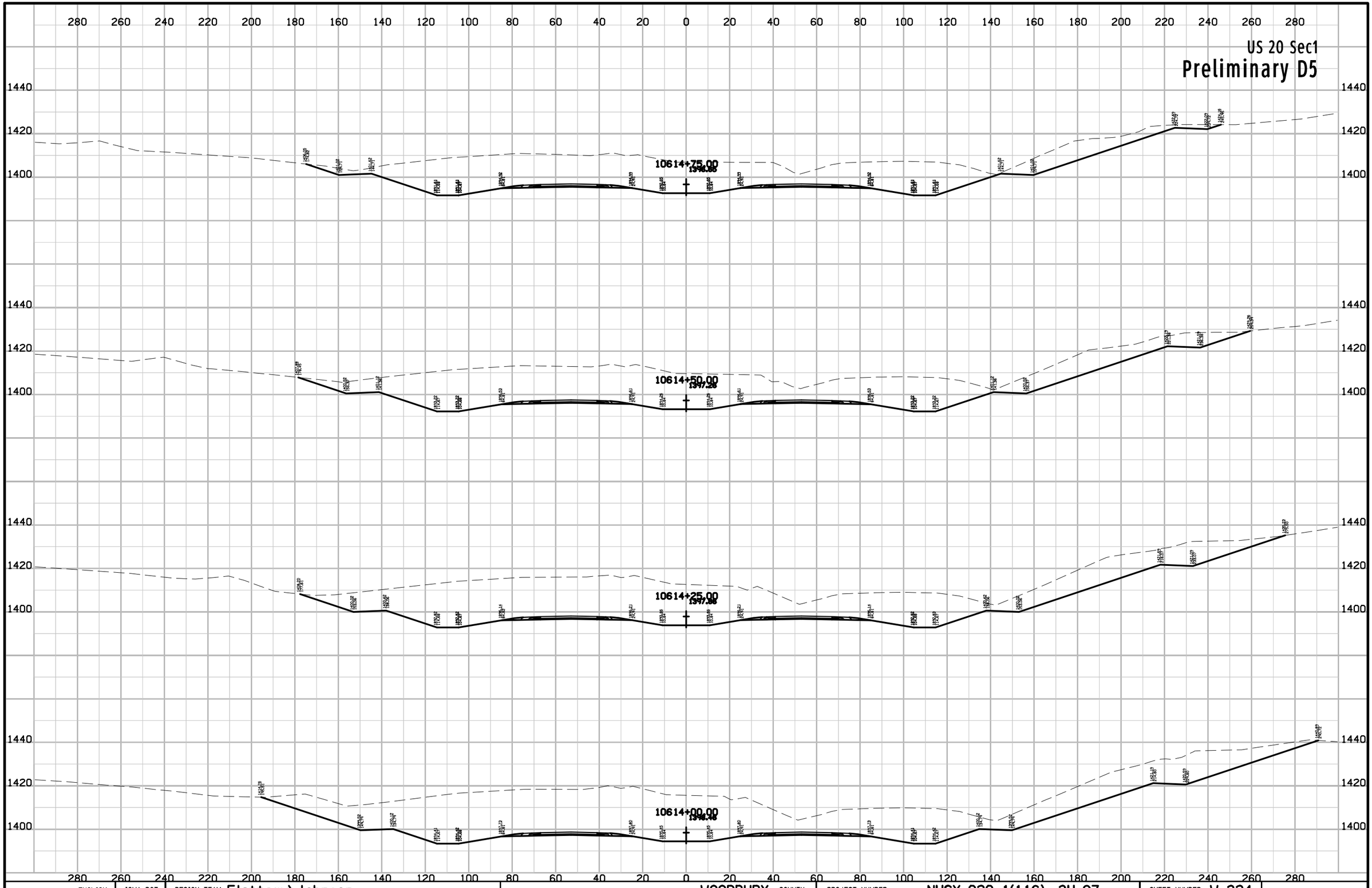
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.324

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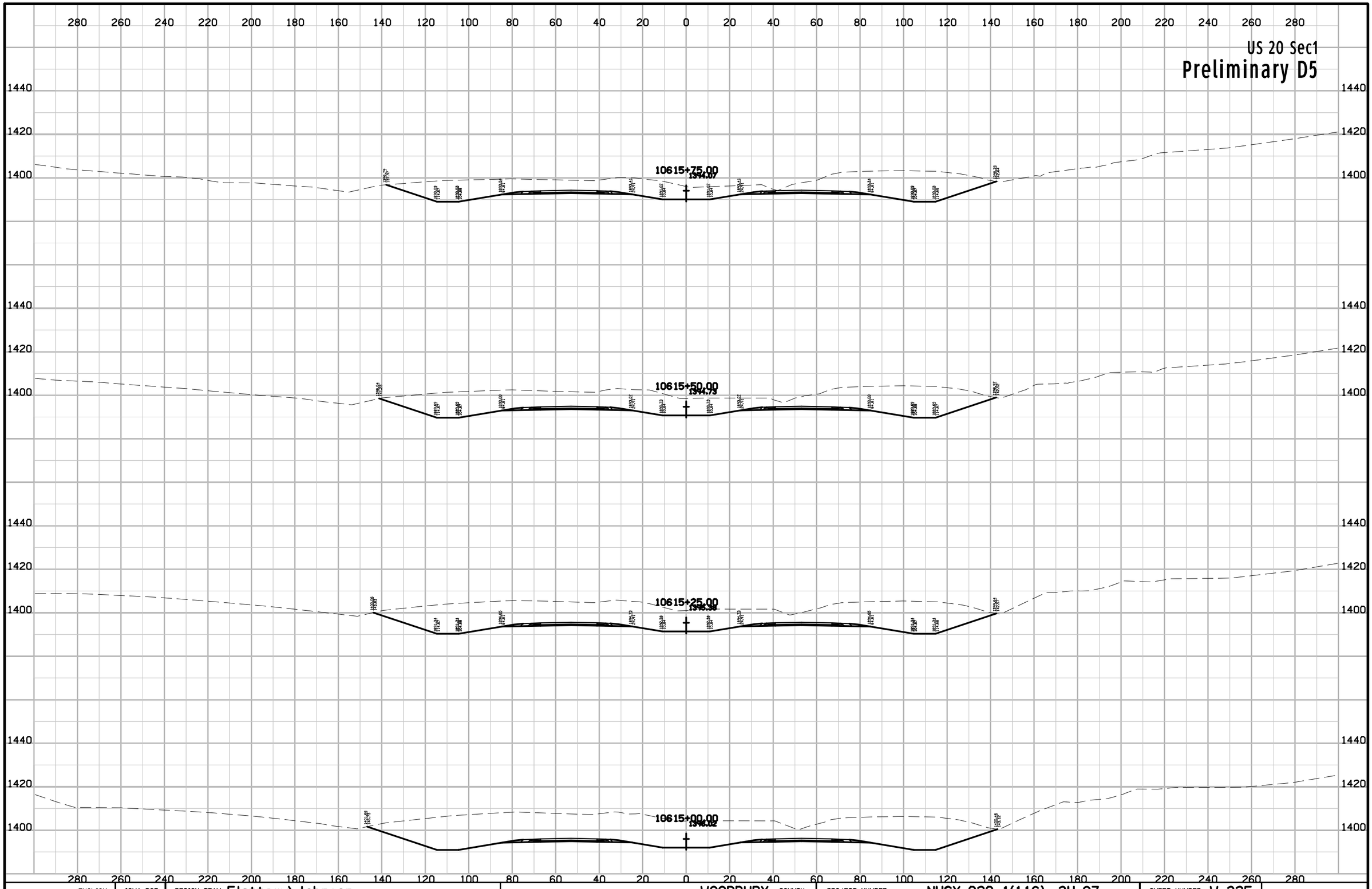
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.325

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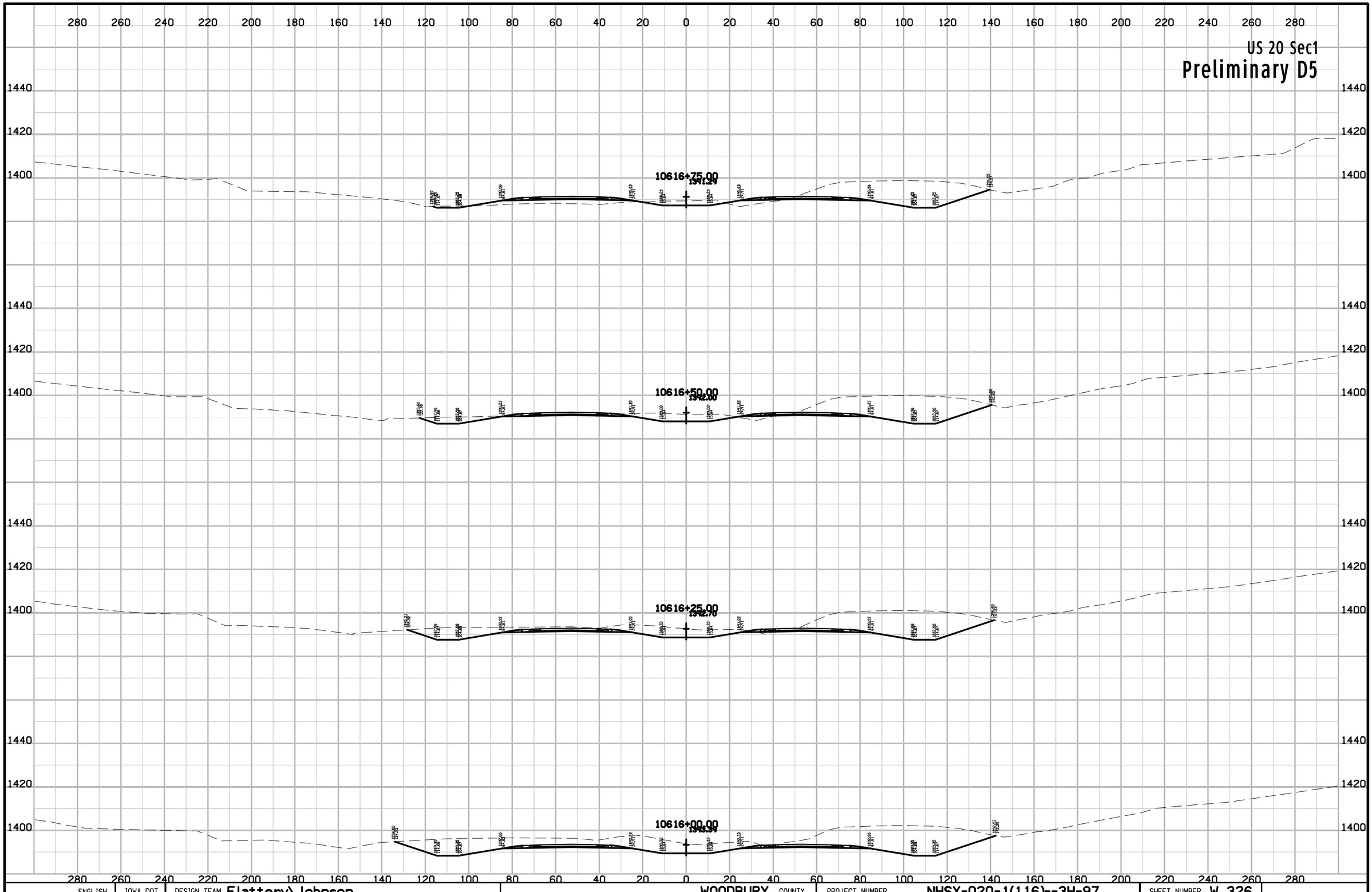
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.326

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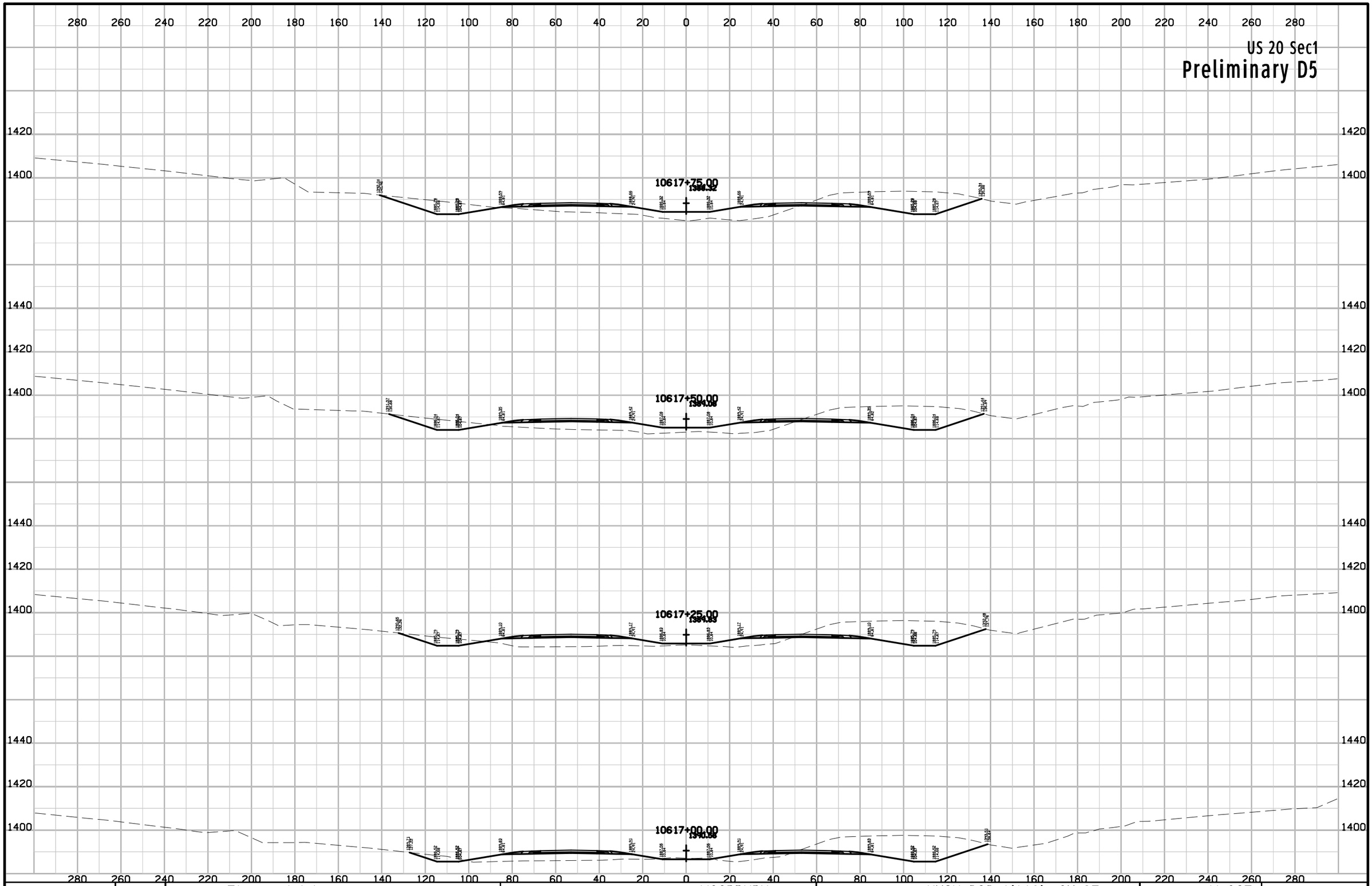
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.327

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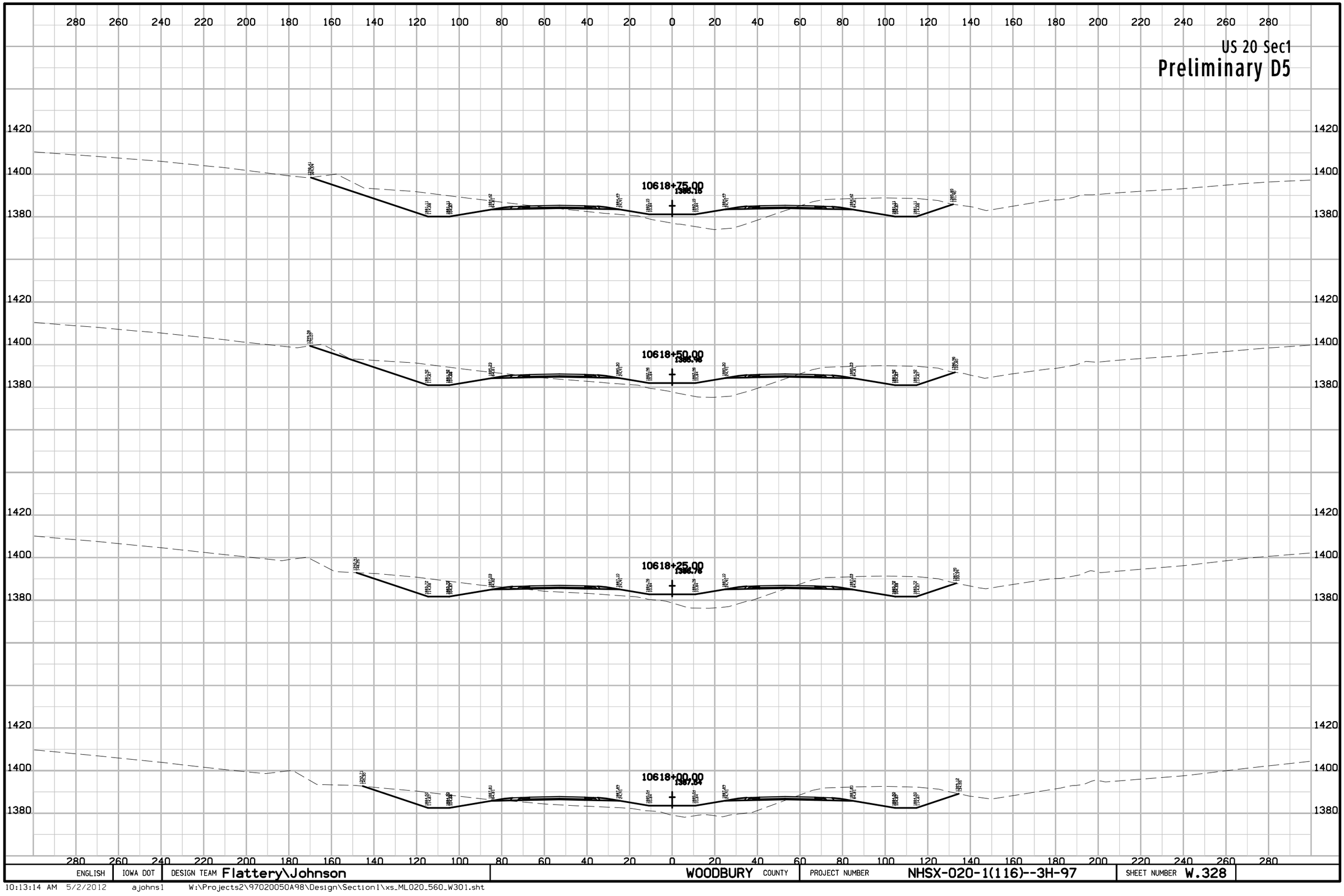
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.328

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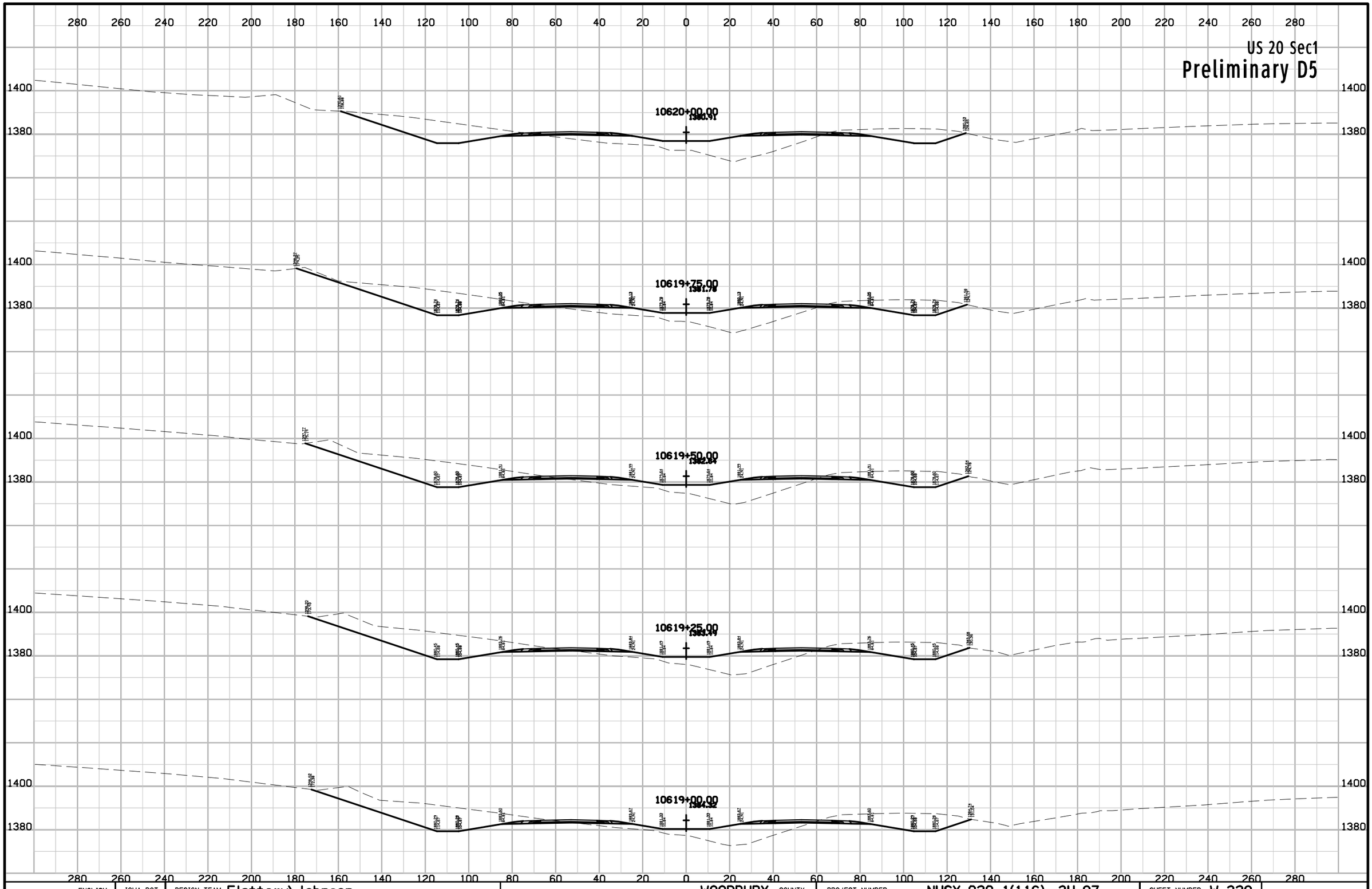
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.329

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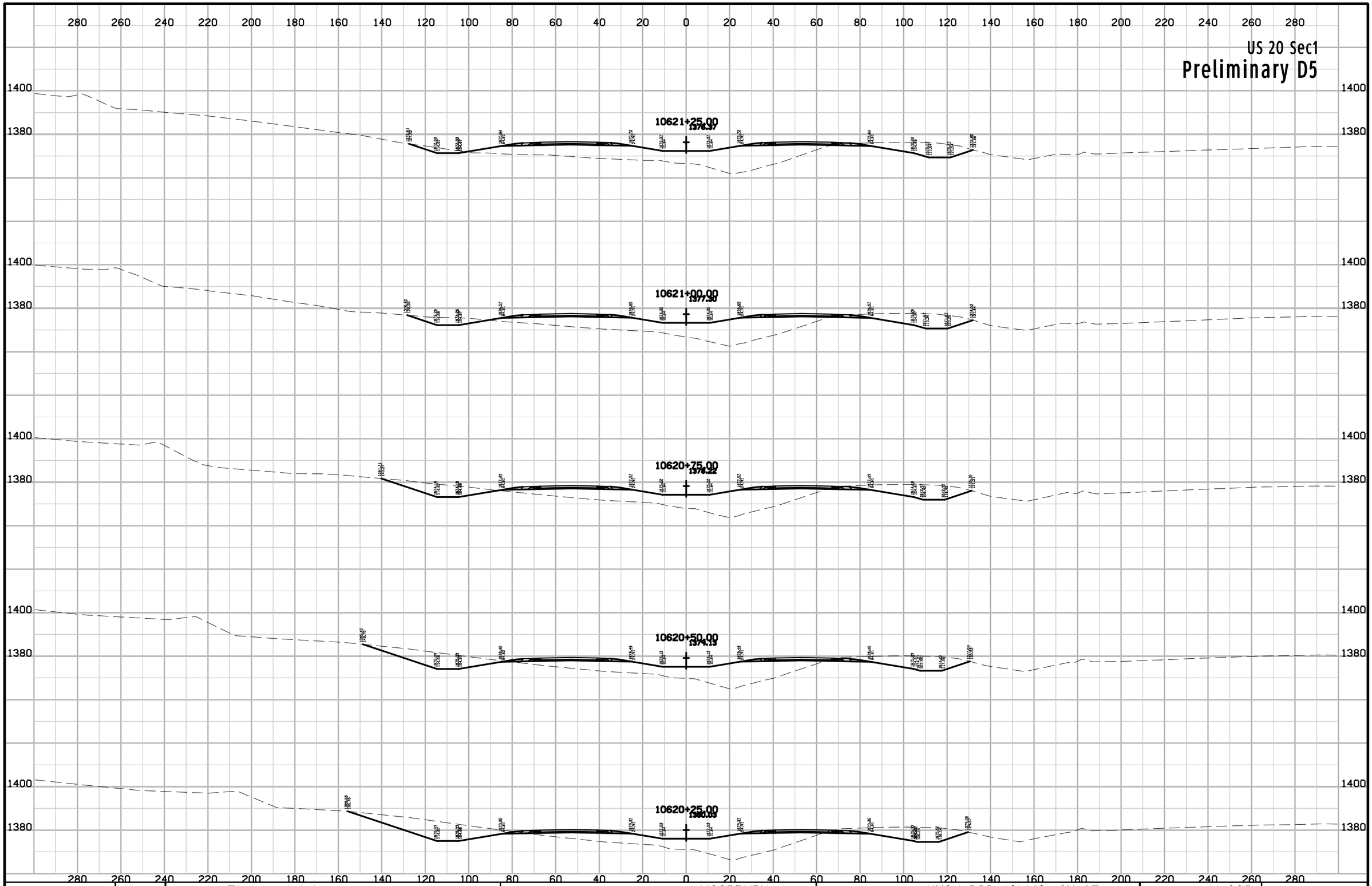
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.330

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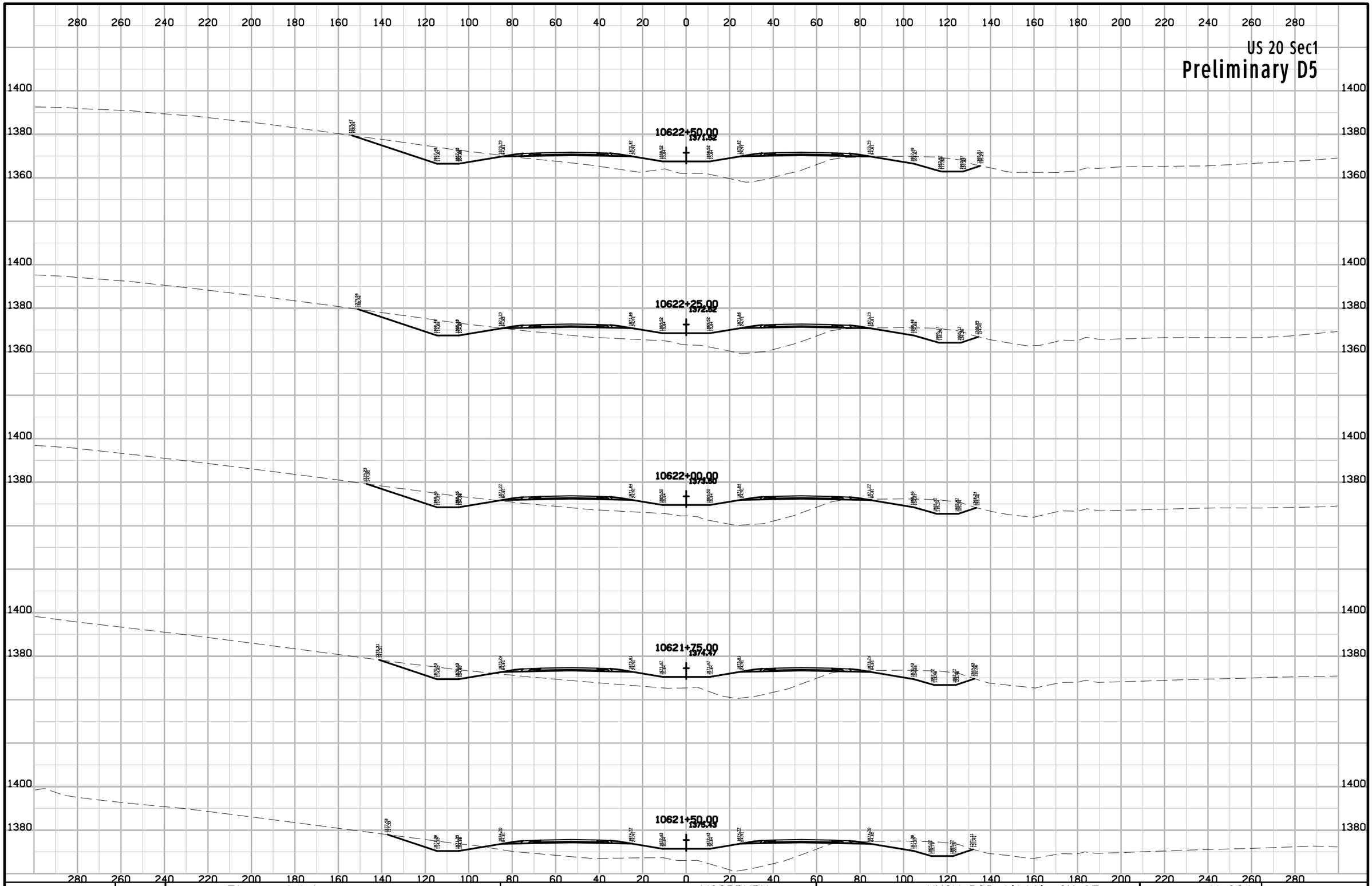
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.331

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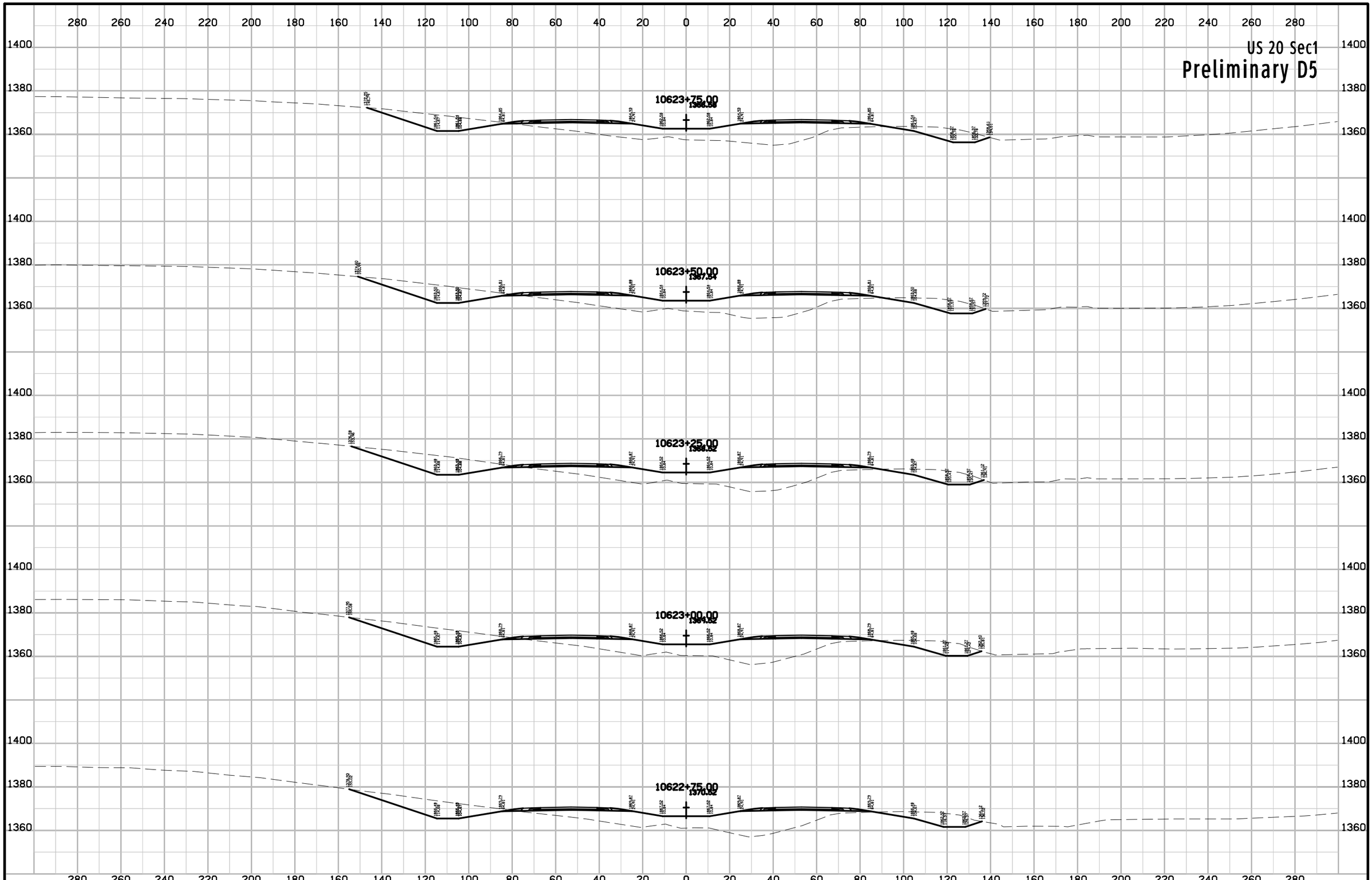
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.332

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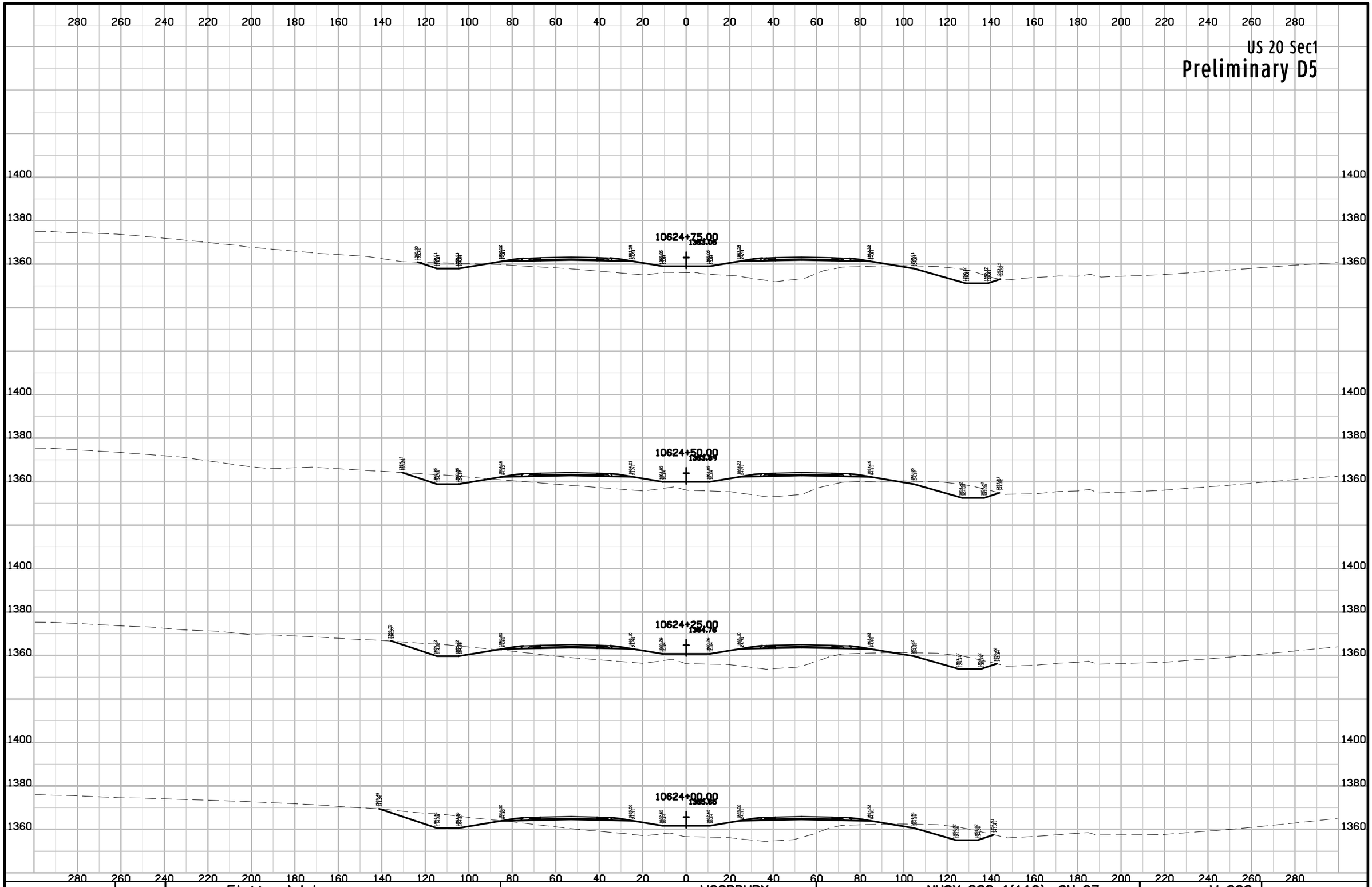
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.333

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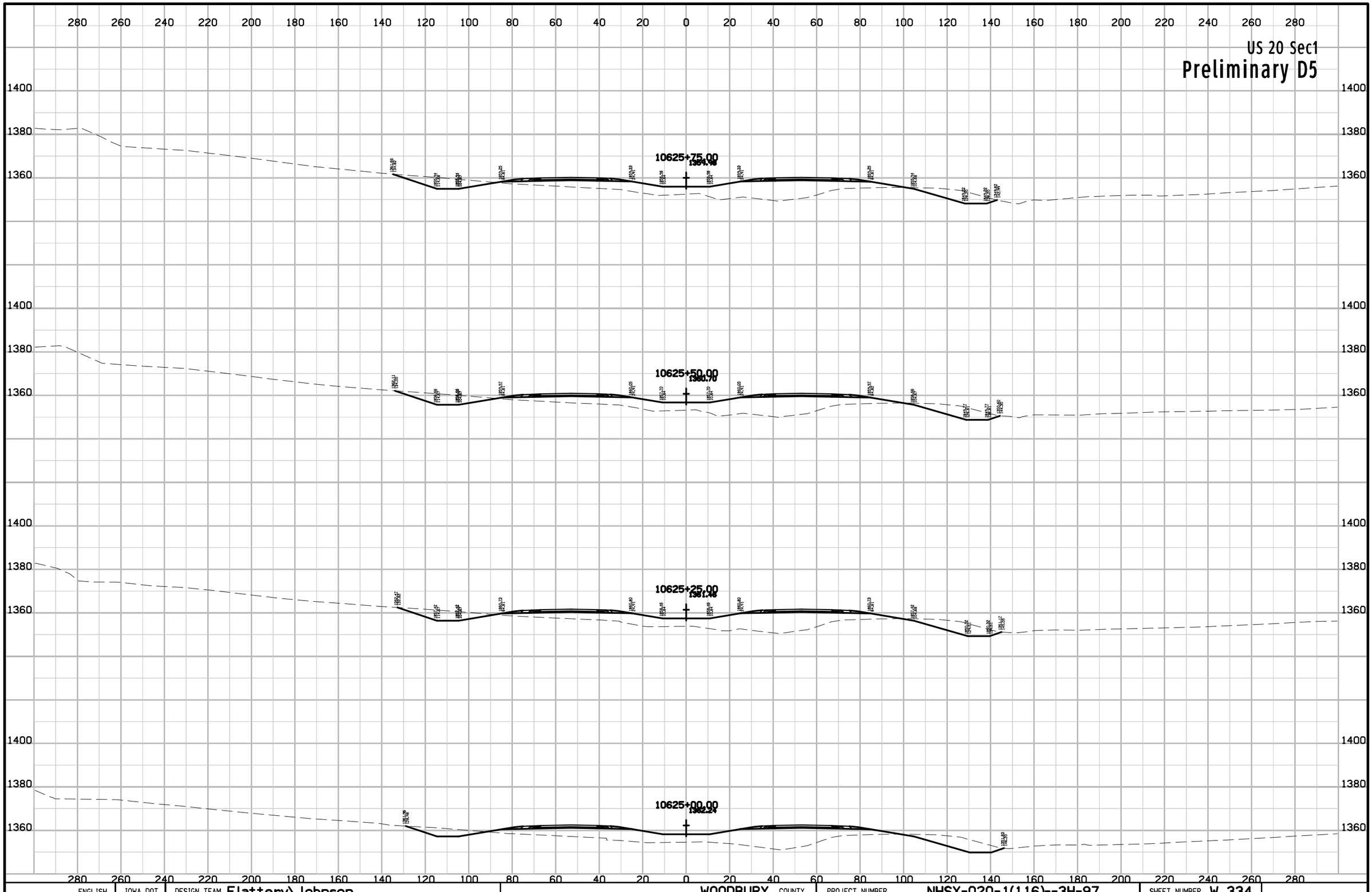
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.334

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US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.335

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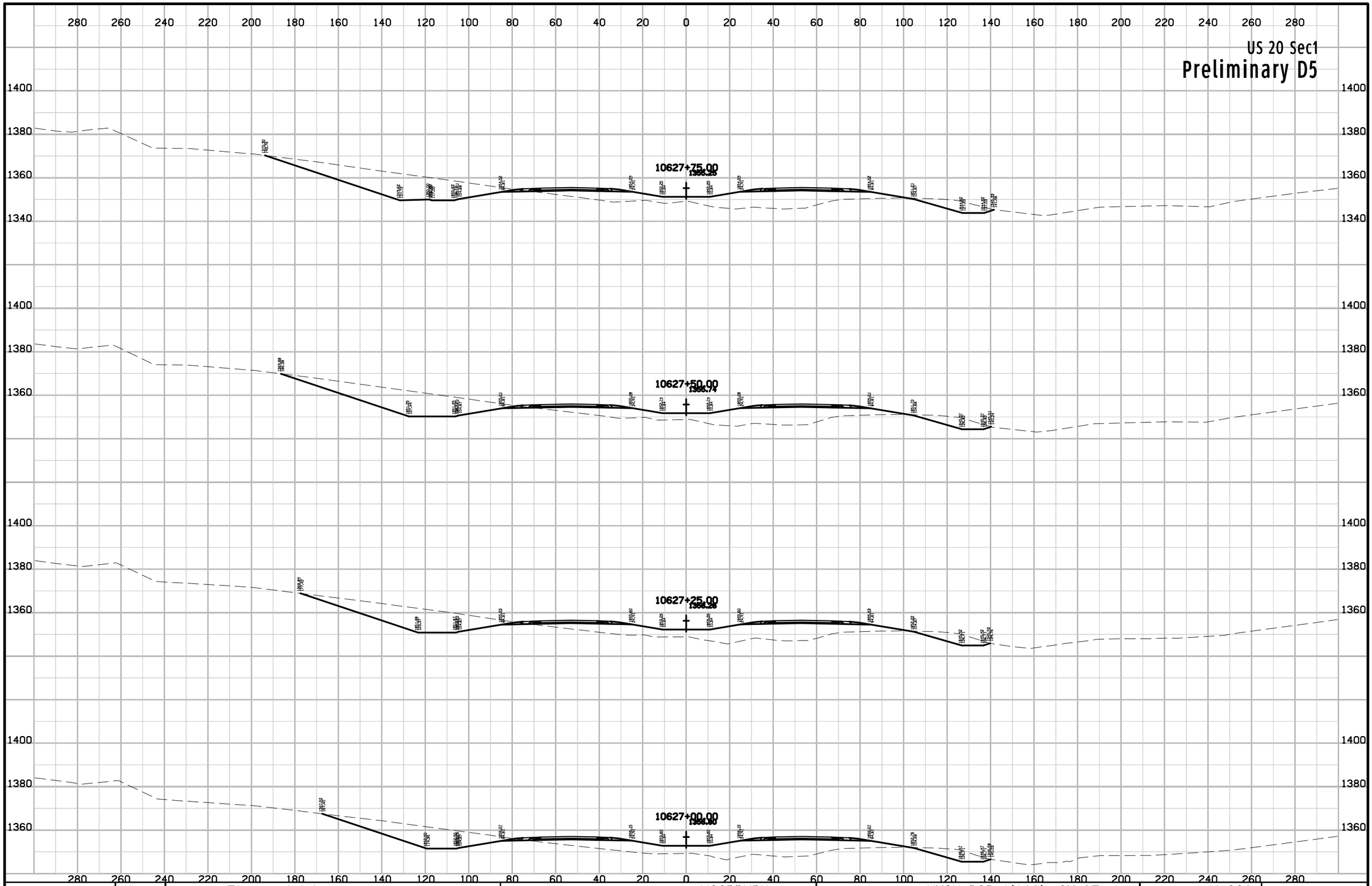
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.336

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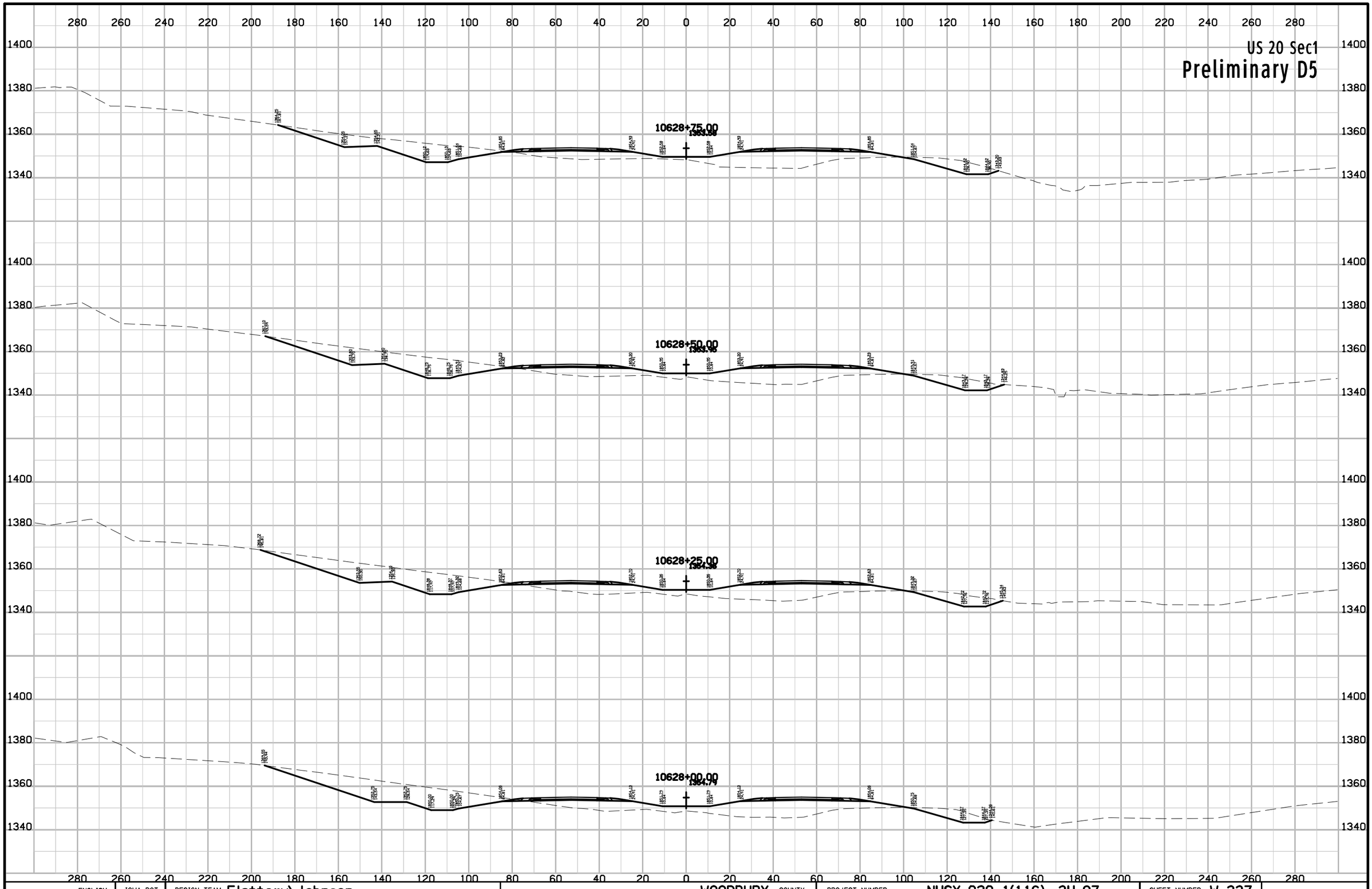
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.337

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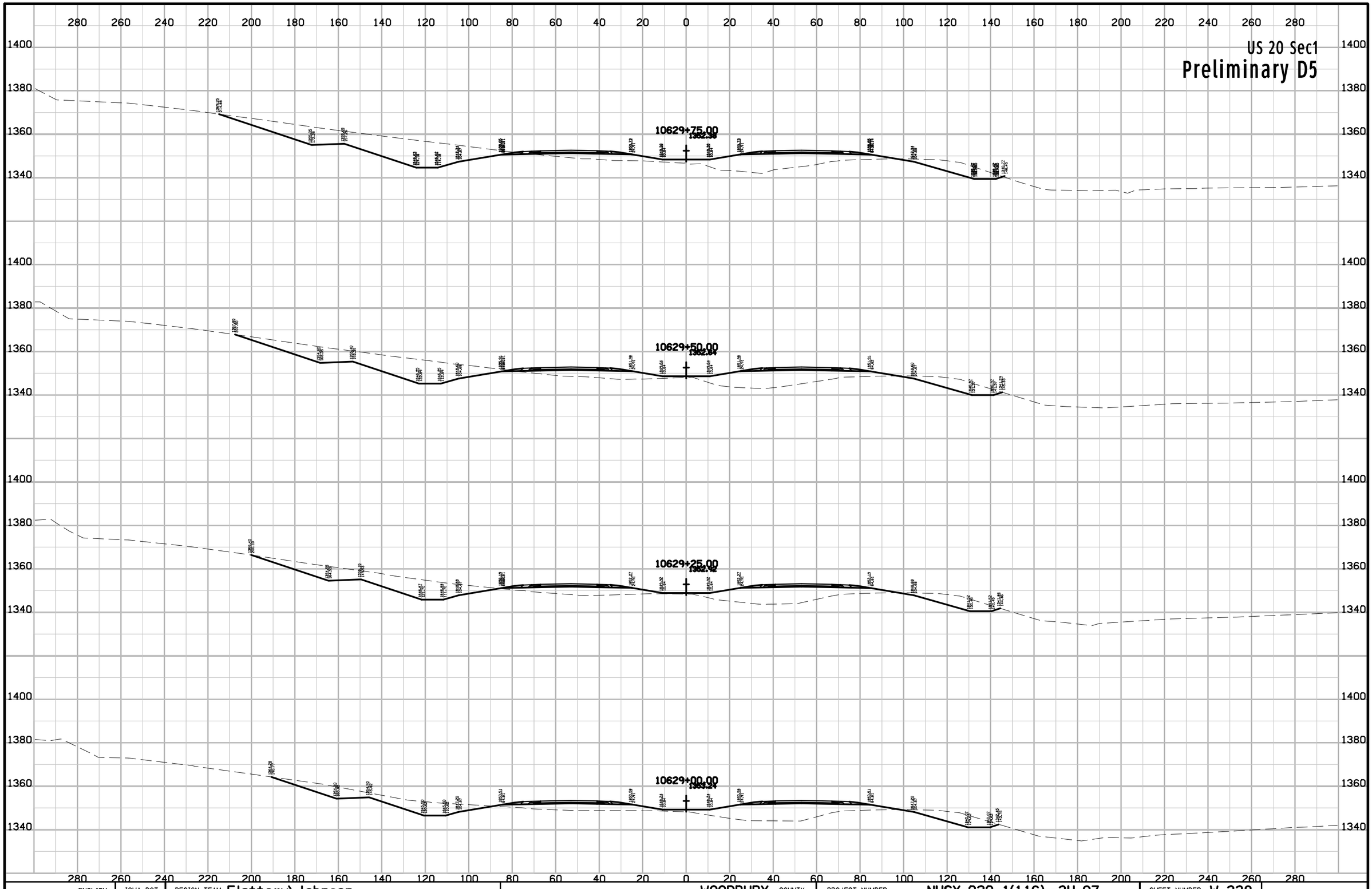
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.338

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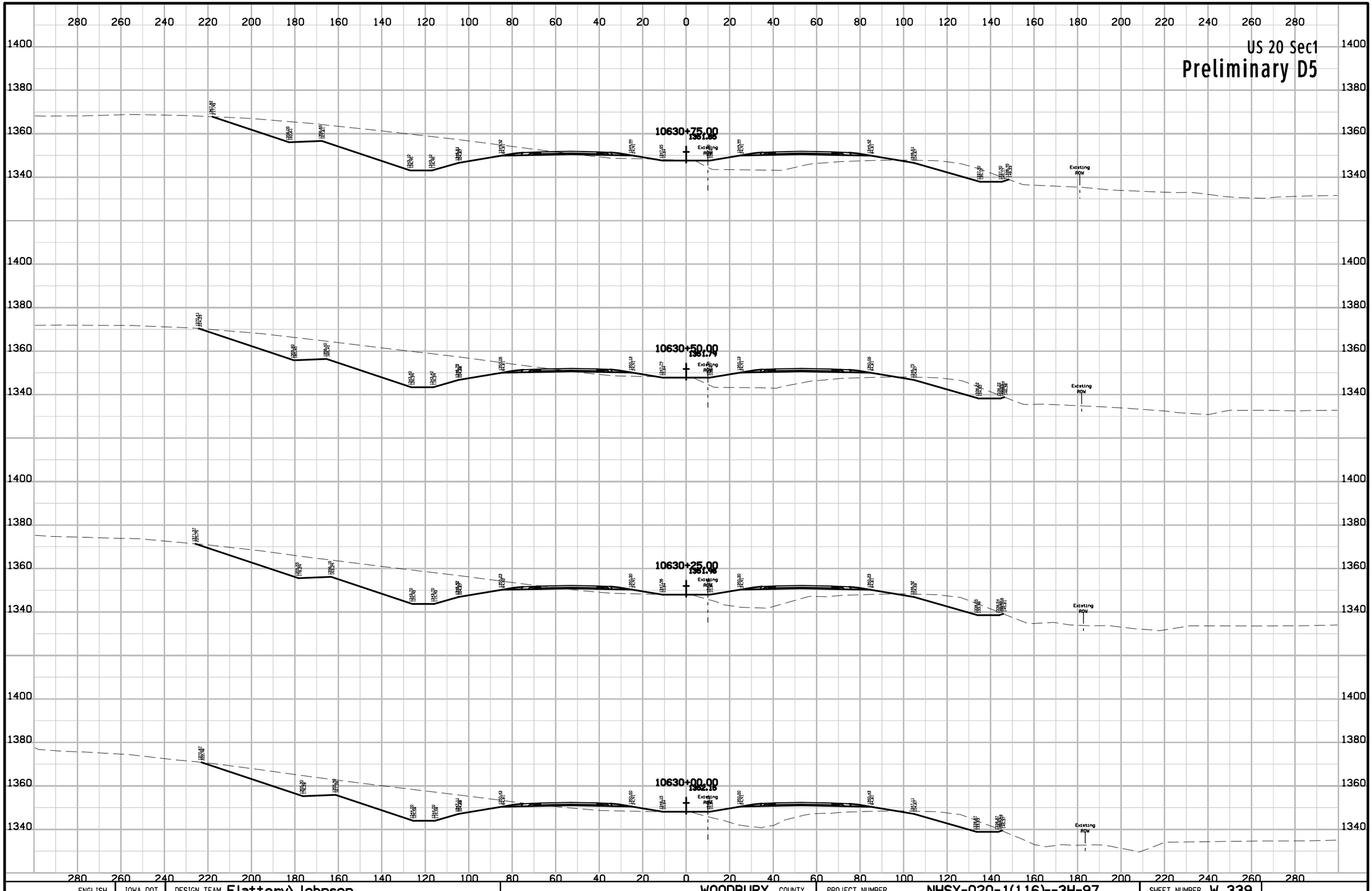
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.339

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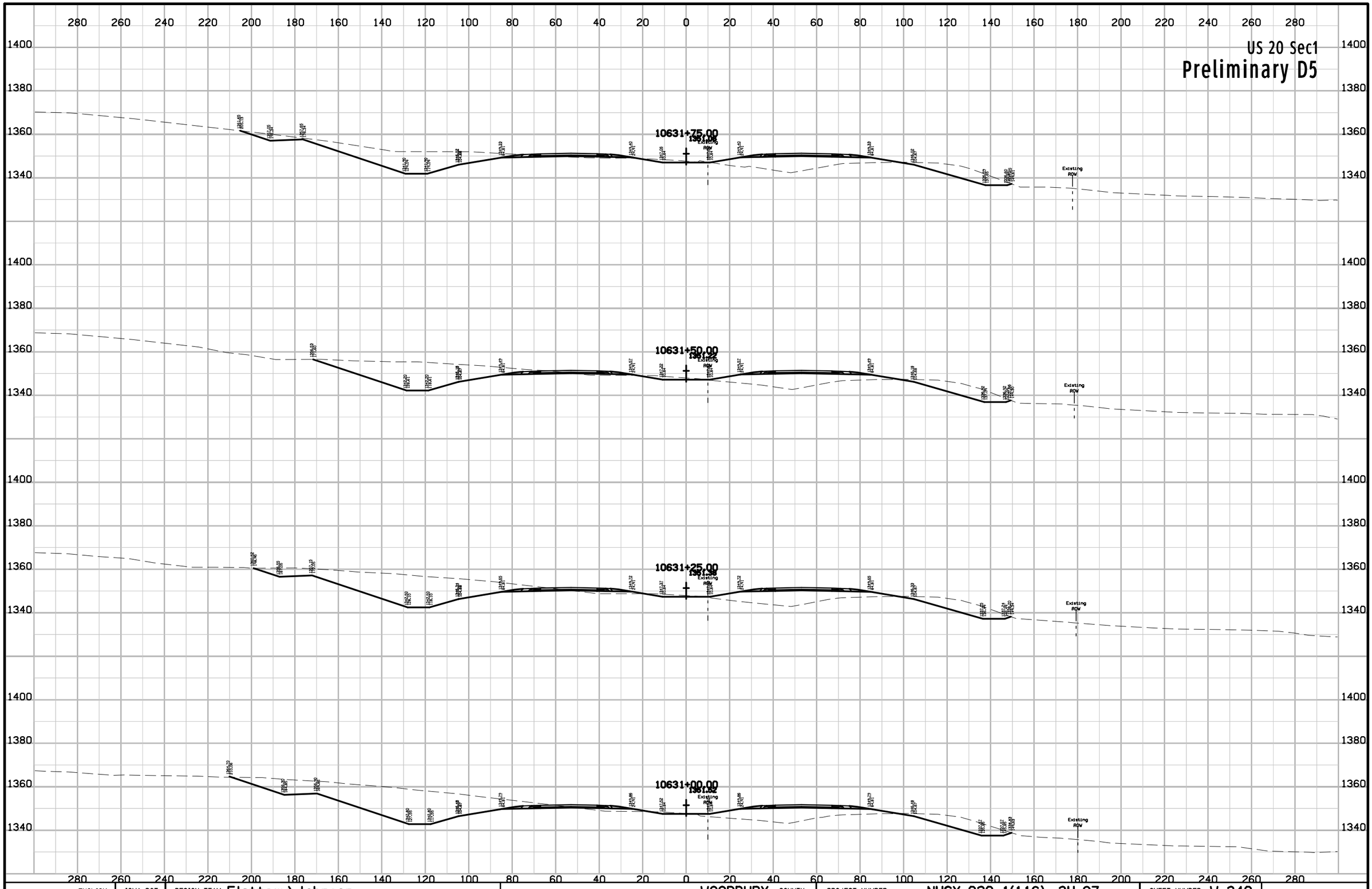
US 20 Sec1

Preliminary D5



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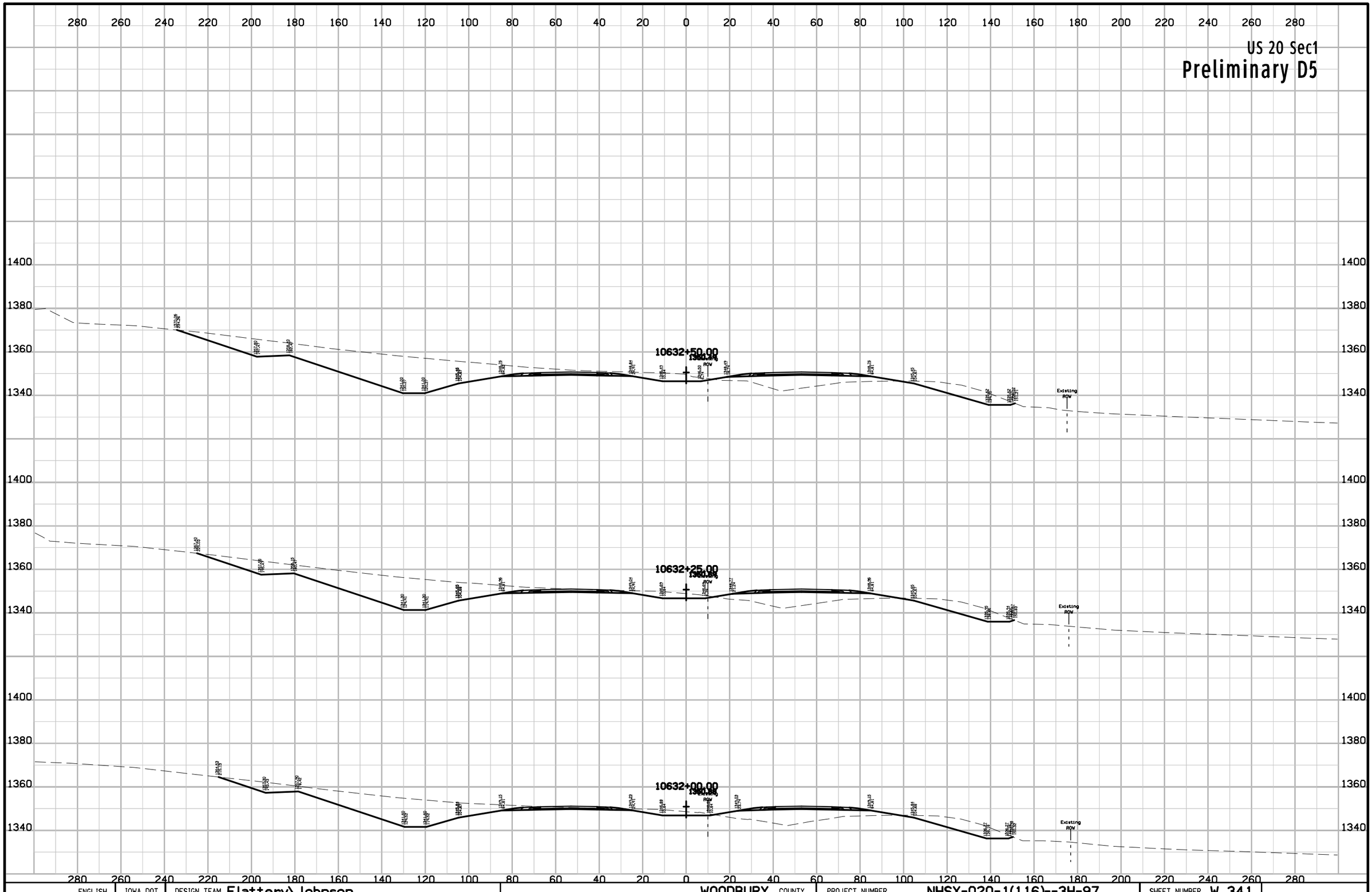
US 20 Sec1

Preliminary D5



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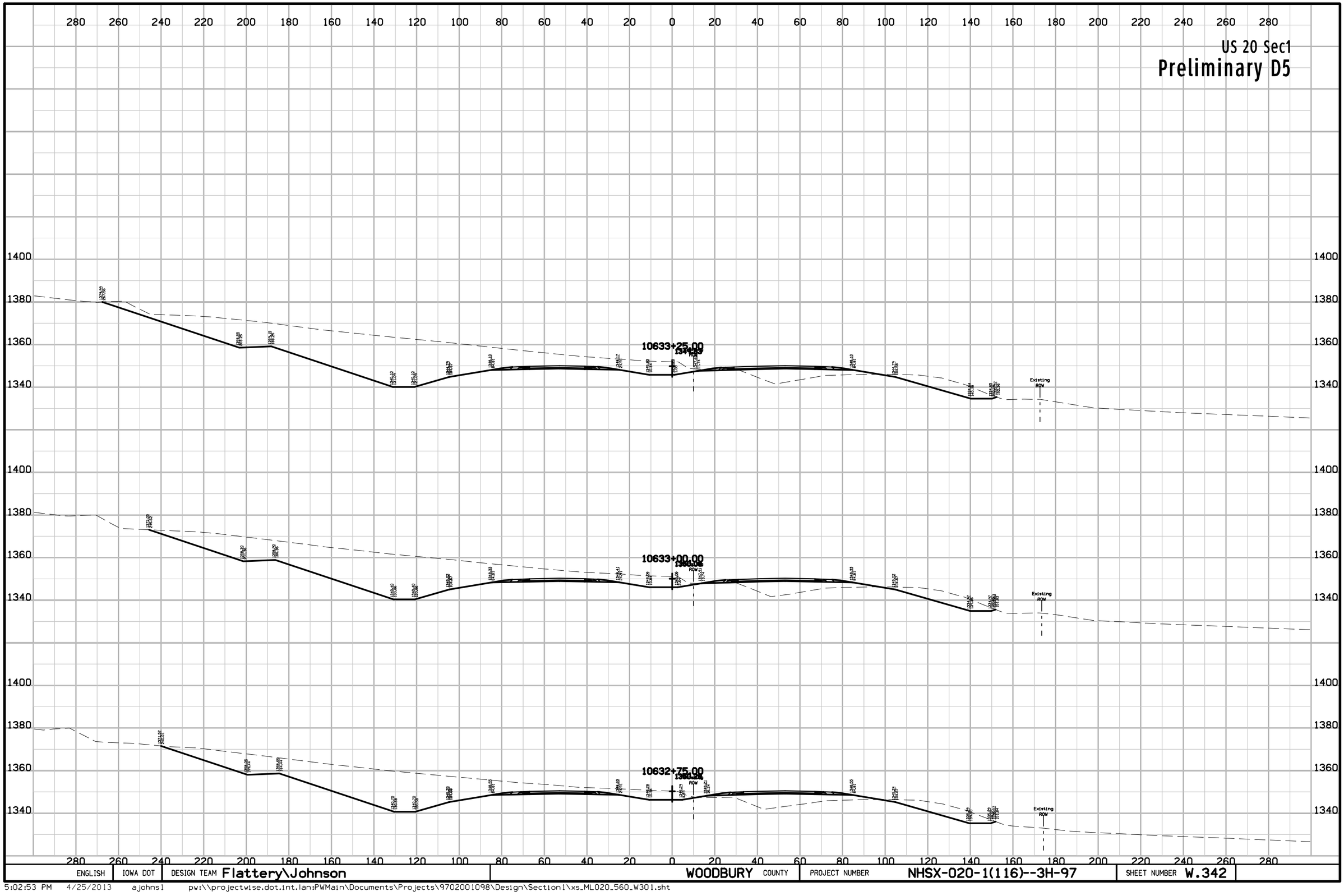
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.342

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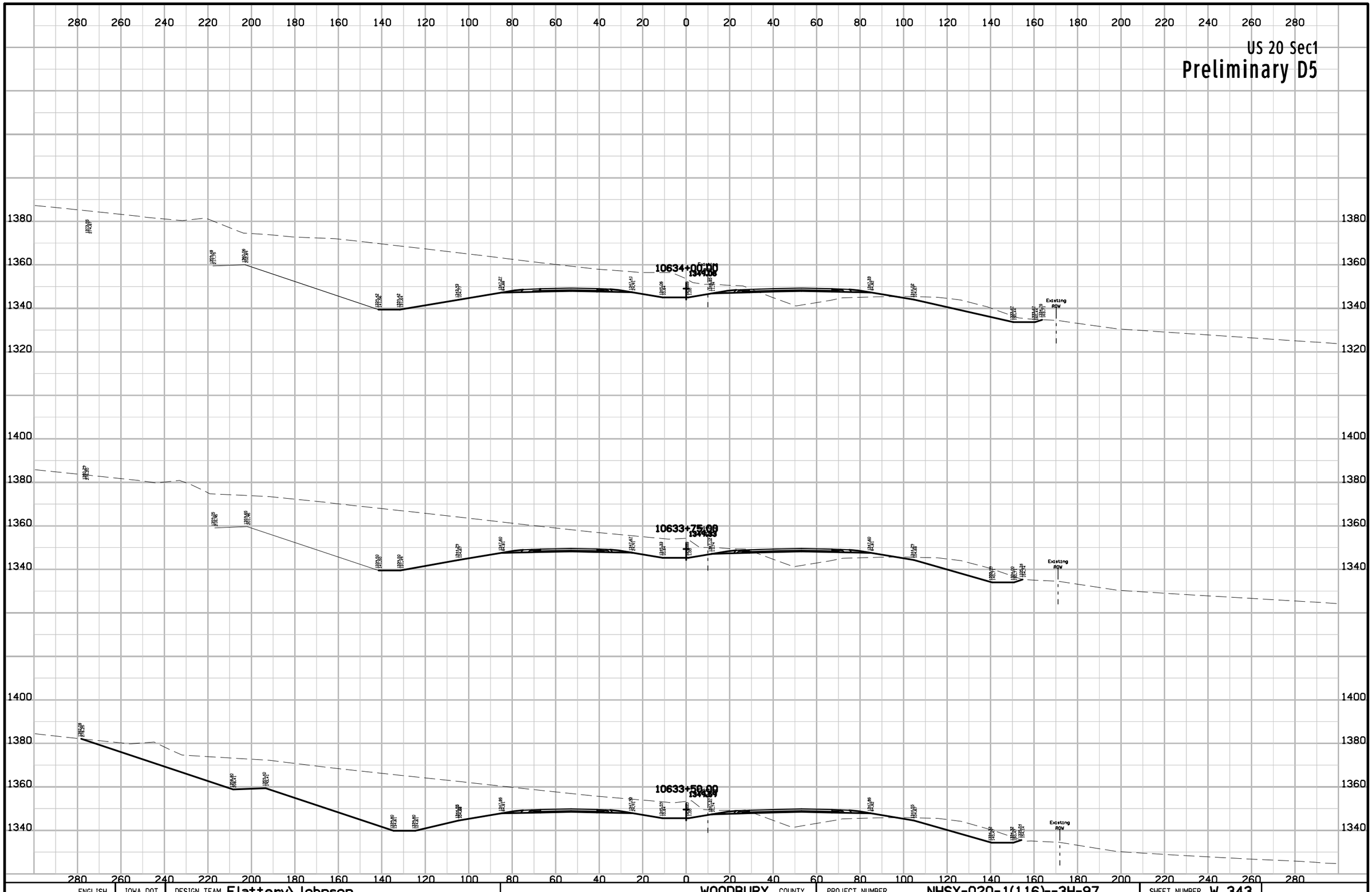
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.343

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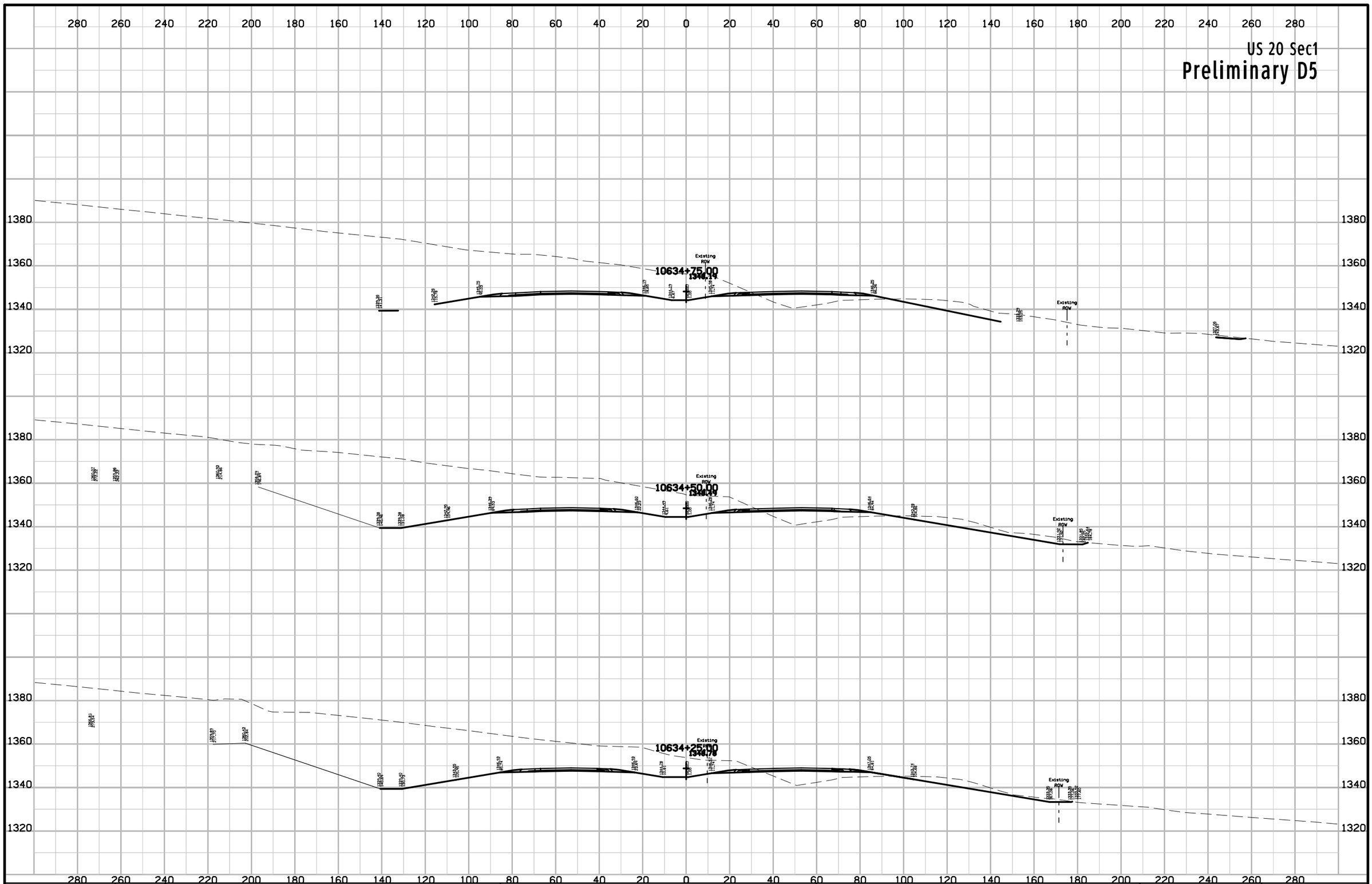
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.344

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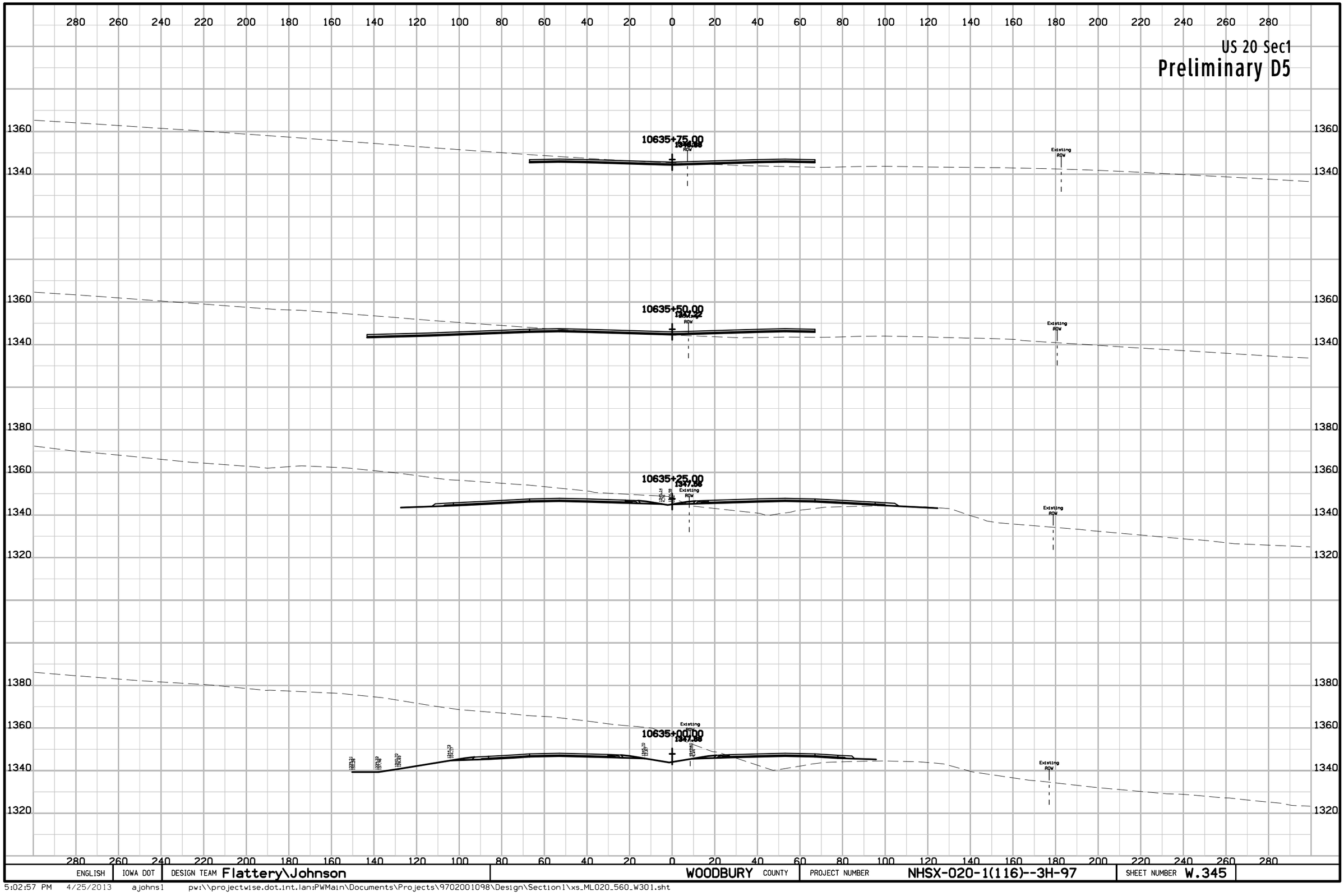
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.345

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1360
1340
1320
1300

10636+50.00
1346.77

Existing ROW

1380
1360
1340
1320
1300

10636+25.00
1346.15
Existing ROW

Existing ROW

1360
1340
1320

10636+00.00
1346.52
Existing ROW

Existing ROW

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.346

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1360
1340
1320
1300

Existing ROW

10637+25.00
1344.58

Existing ROW

10637+00.00
1344.97

Existing ROW

10636+75.00
1345.38

Existing ROW

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.347

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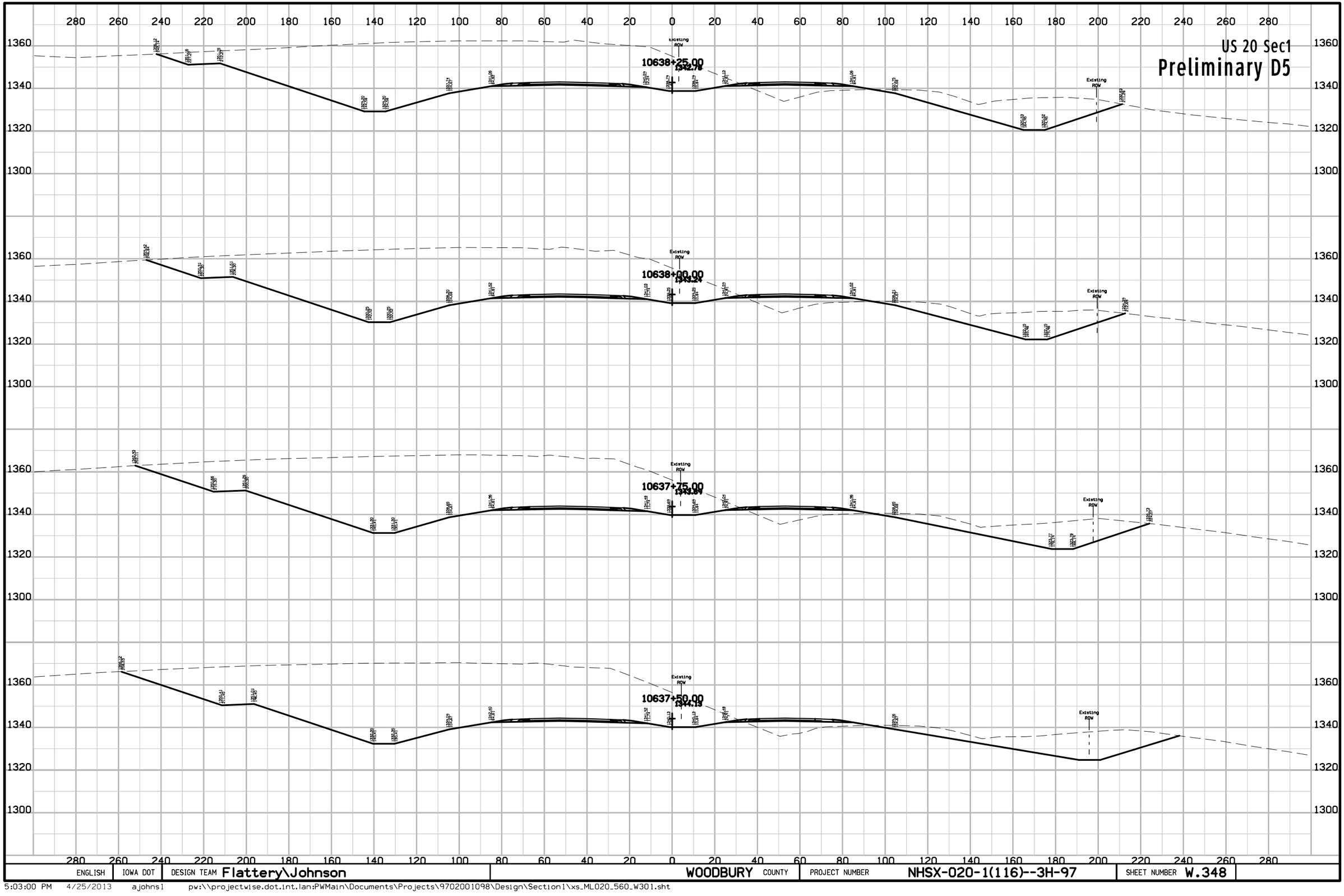
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.348

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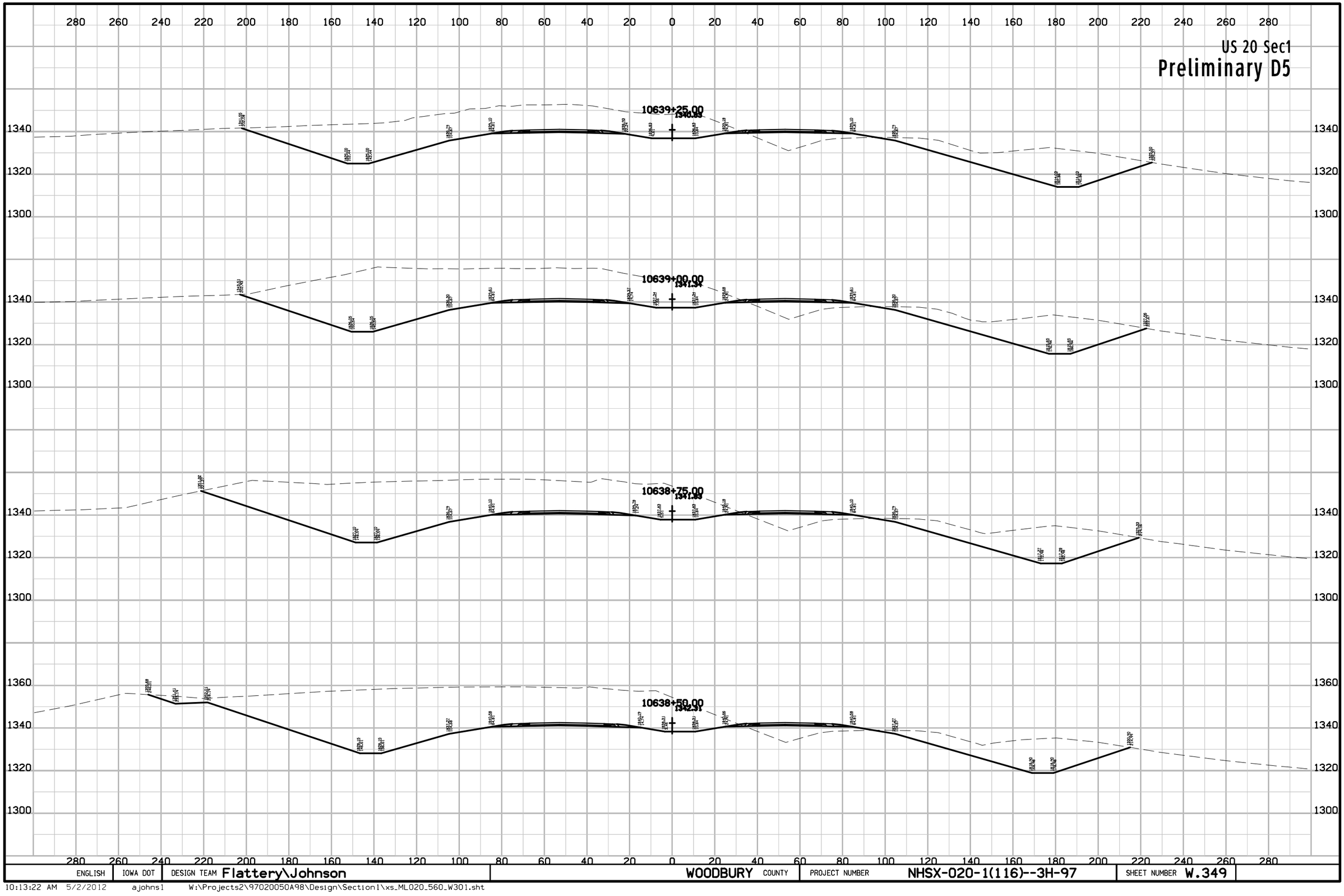
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.349

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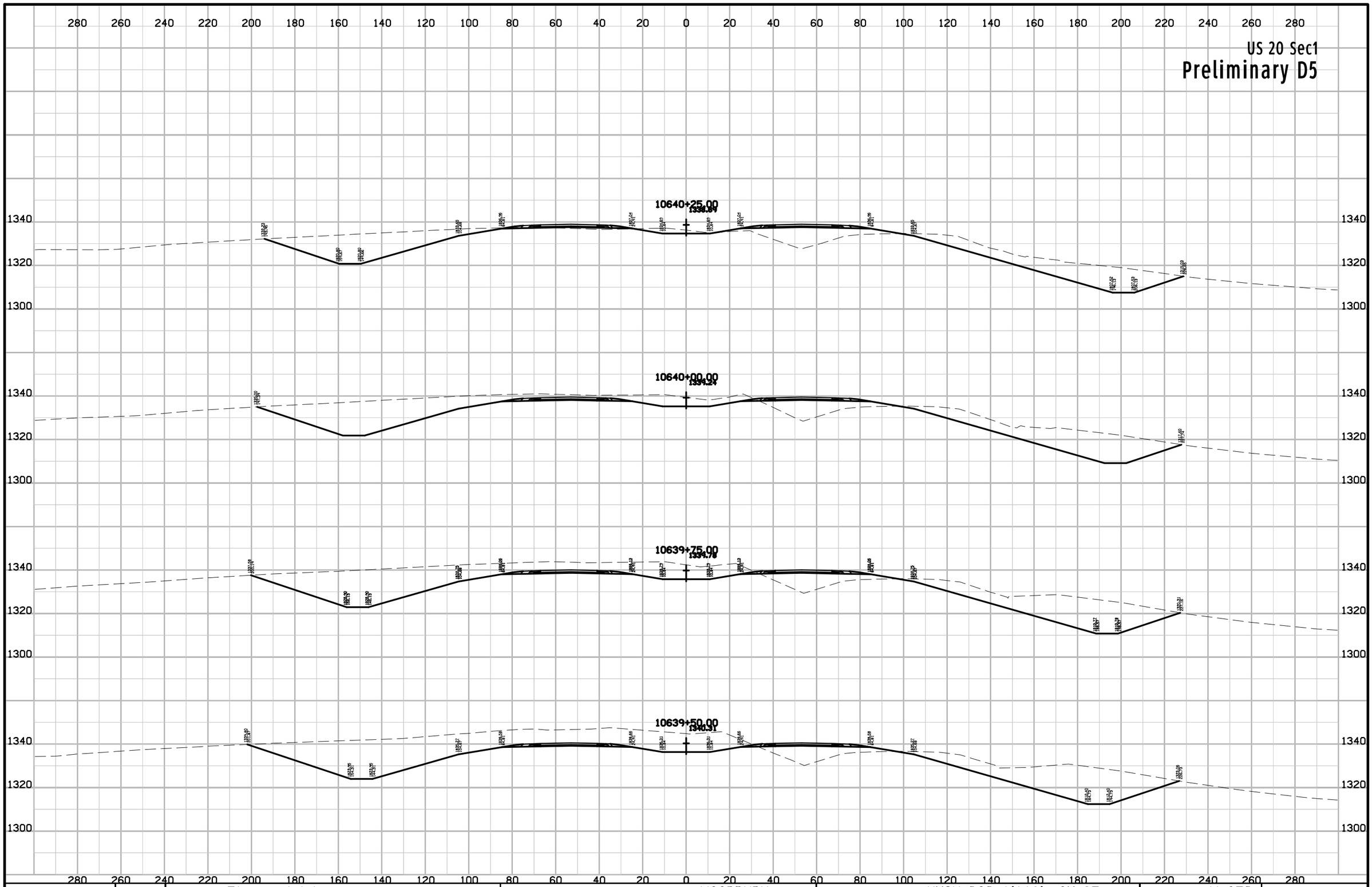
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.350

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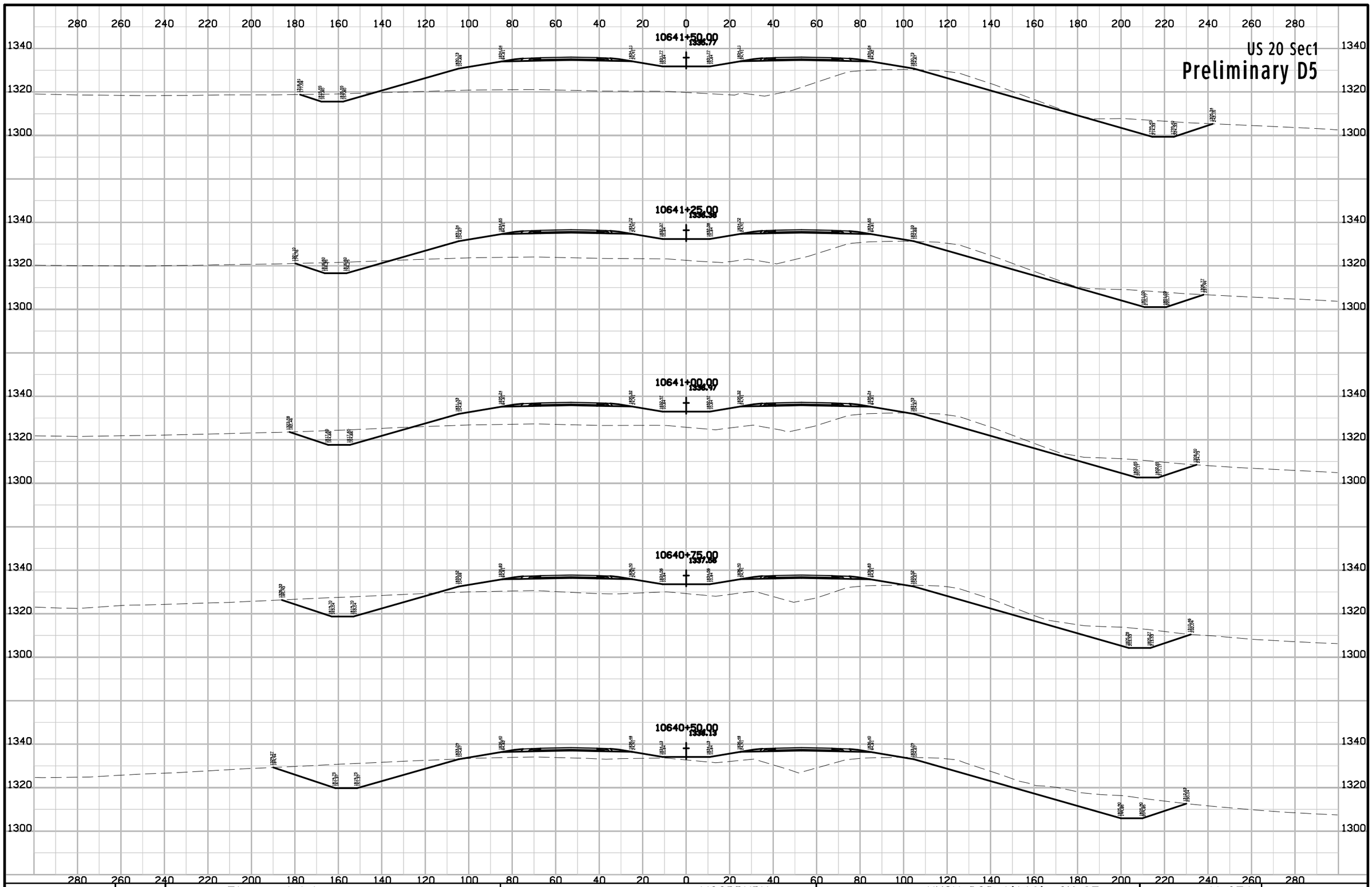
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.351

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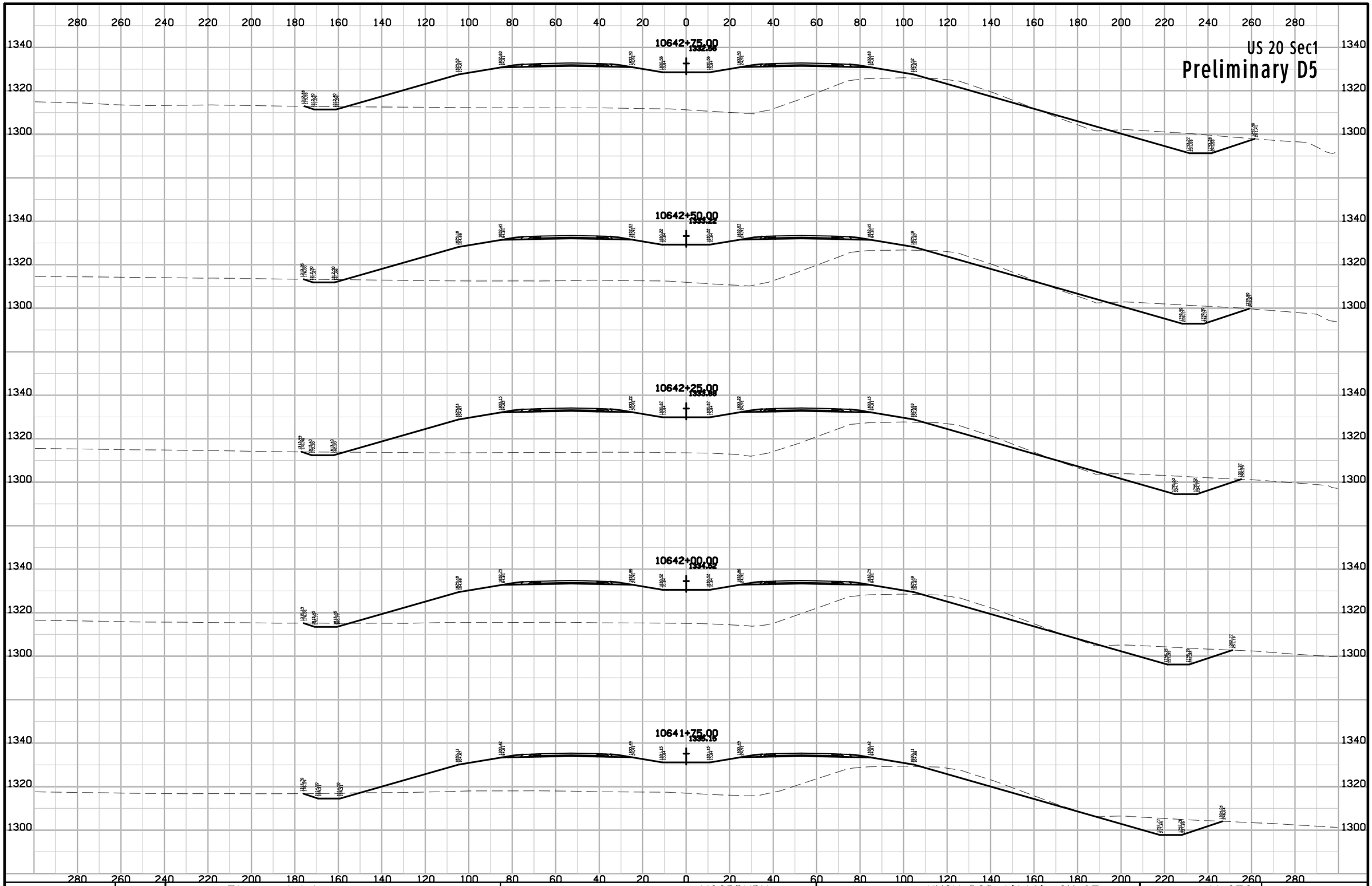
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.352

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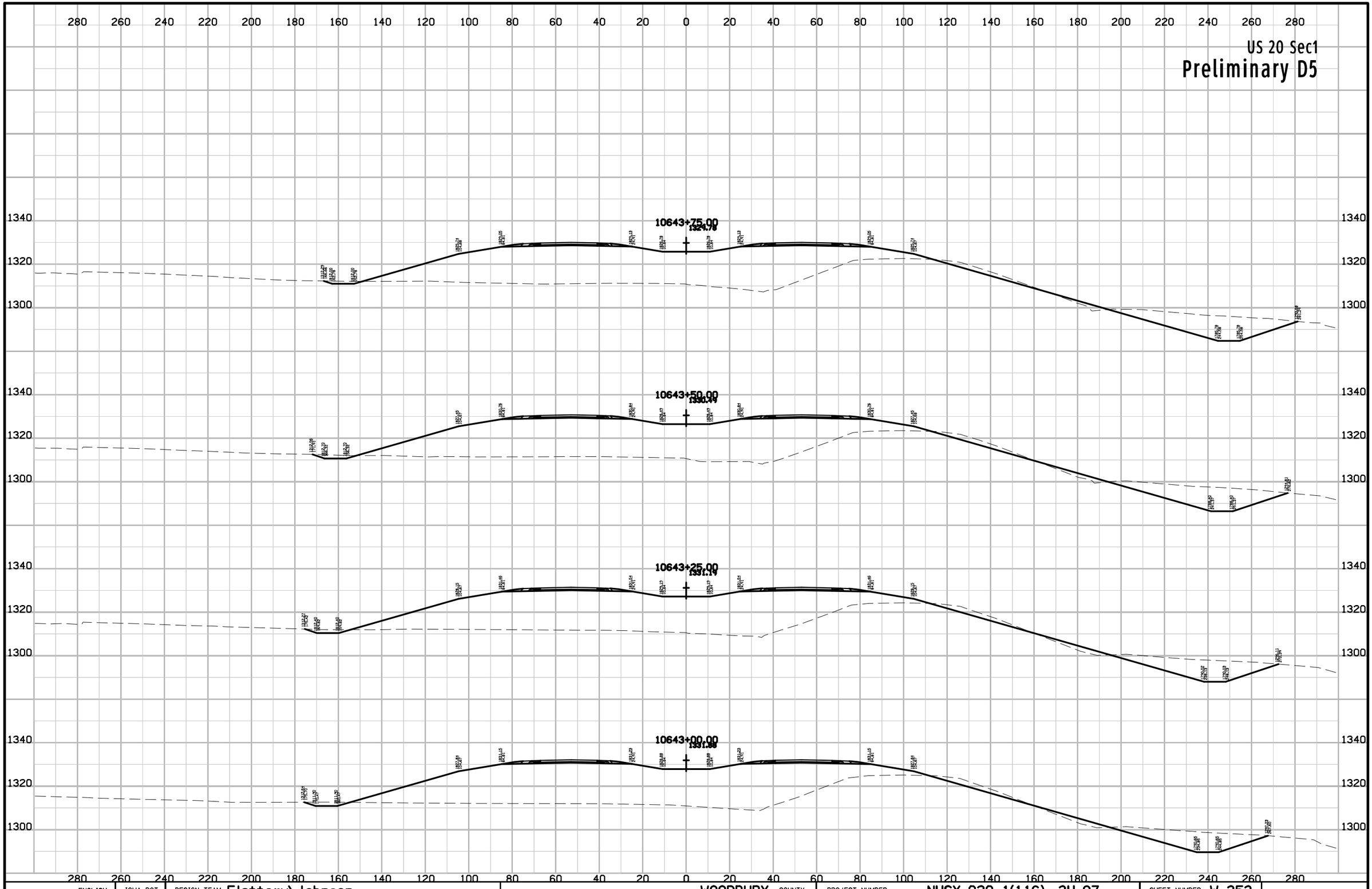
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.353

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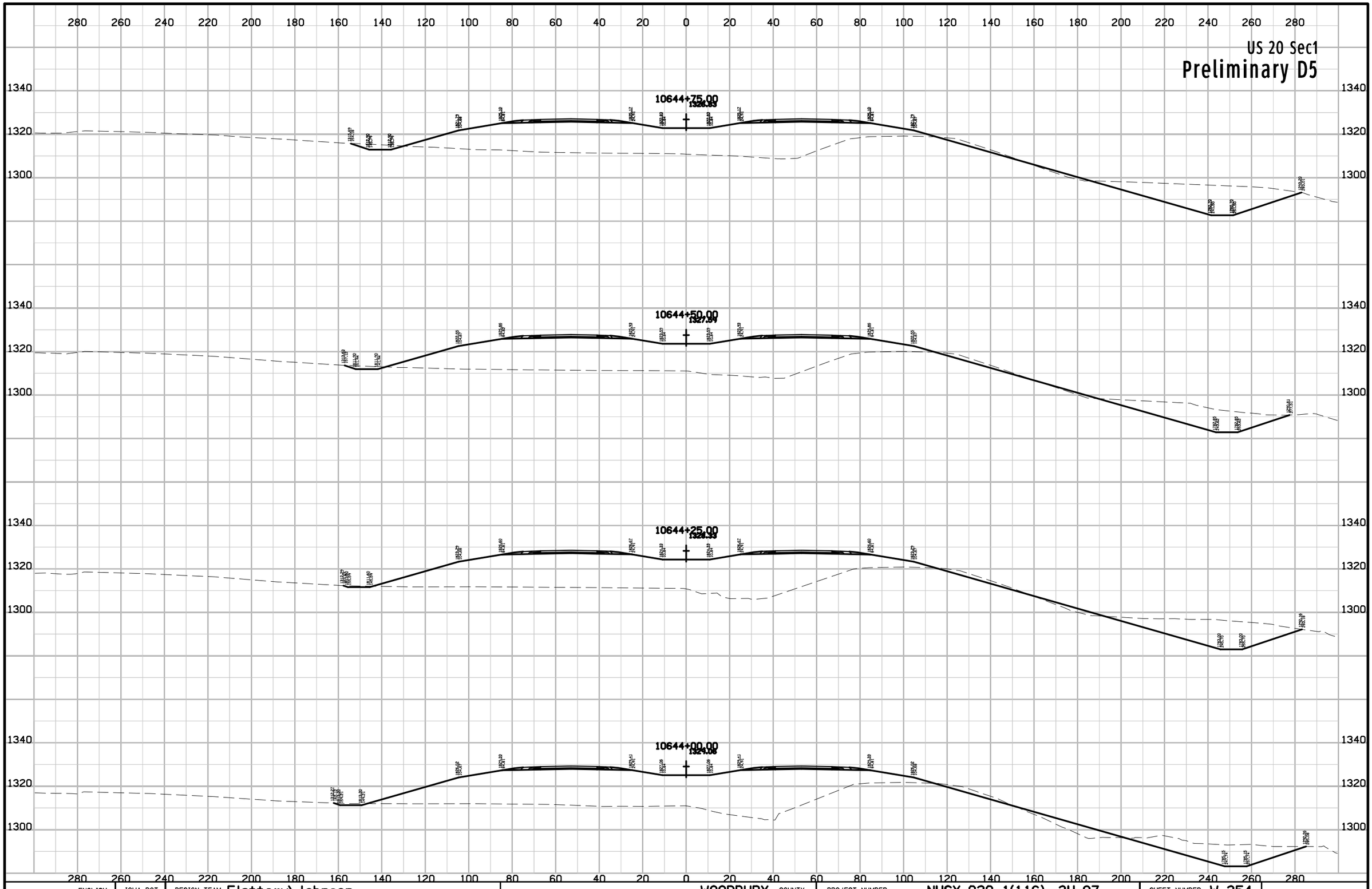
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.354

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US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.355

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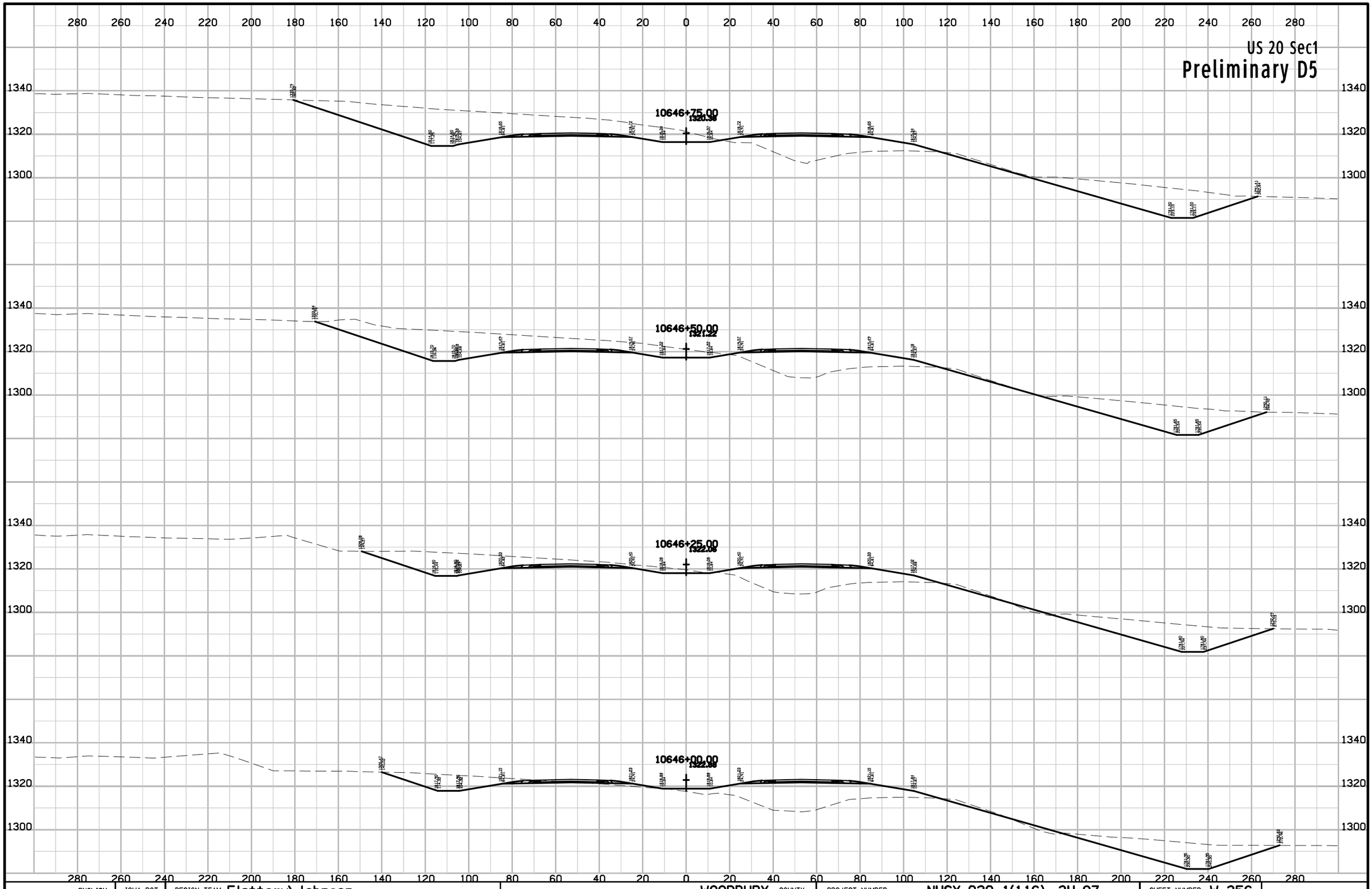
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.356

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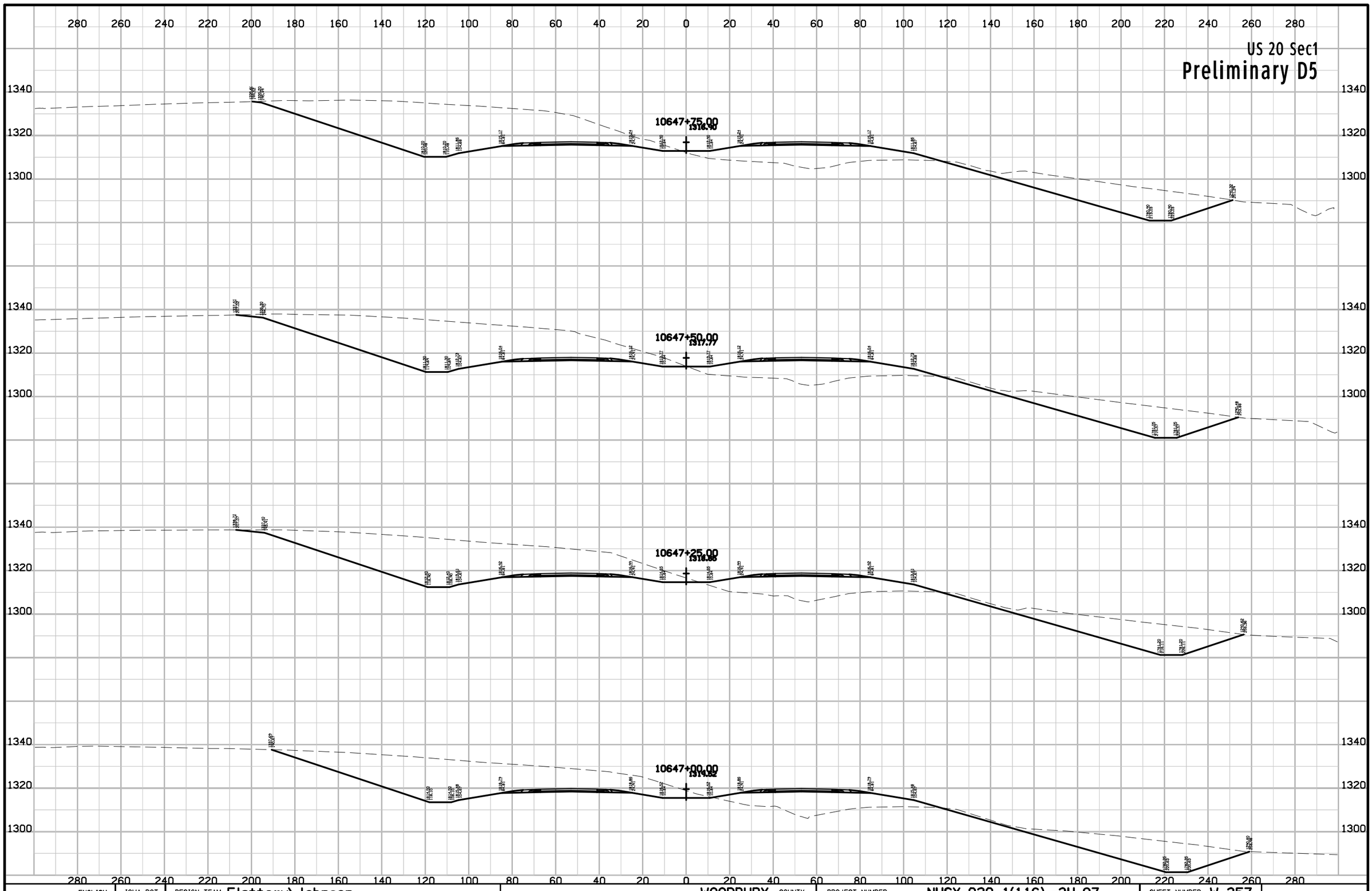
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.357

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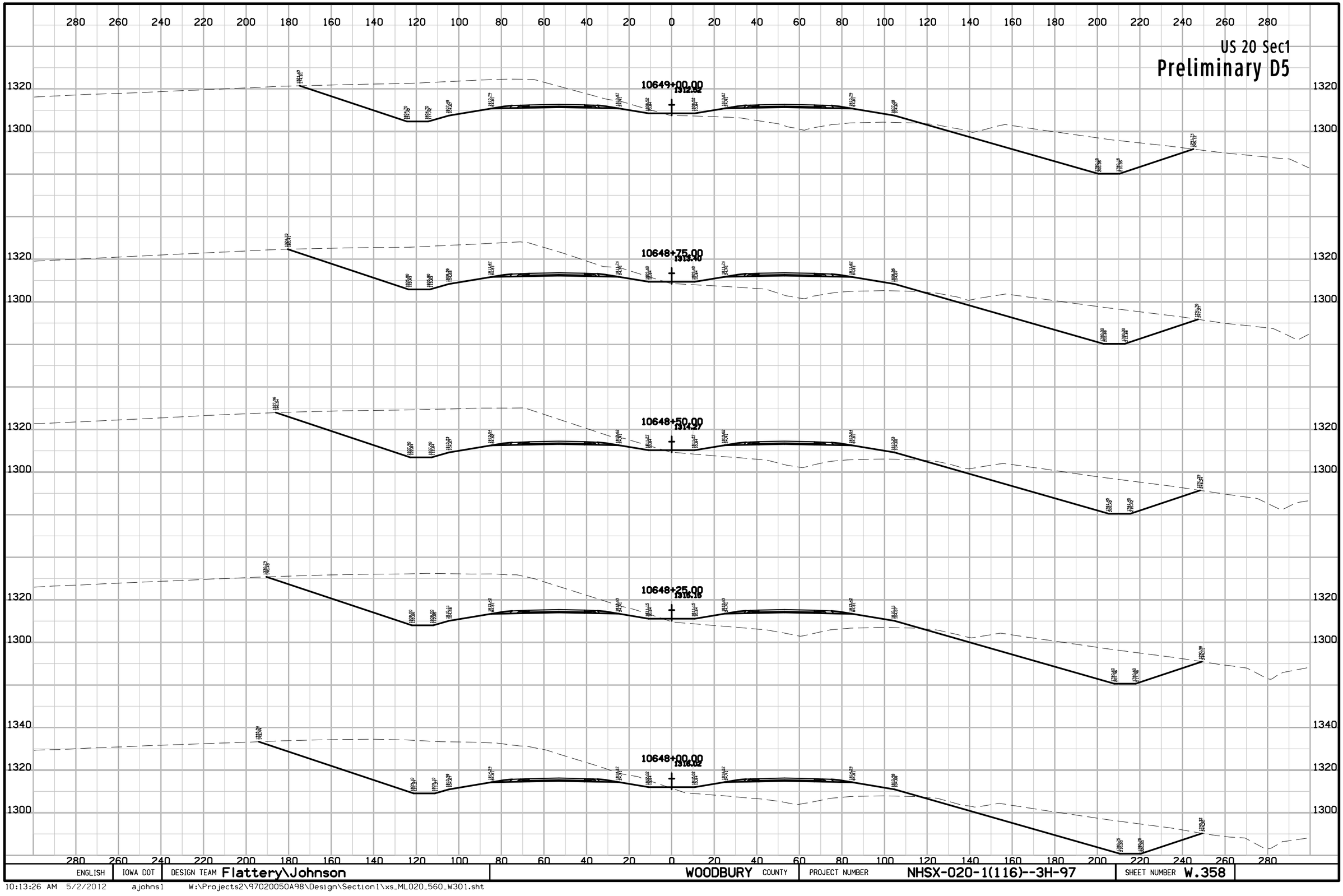
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.358

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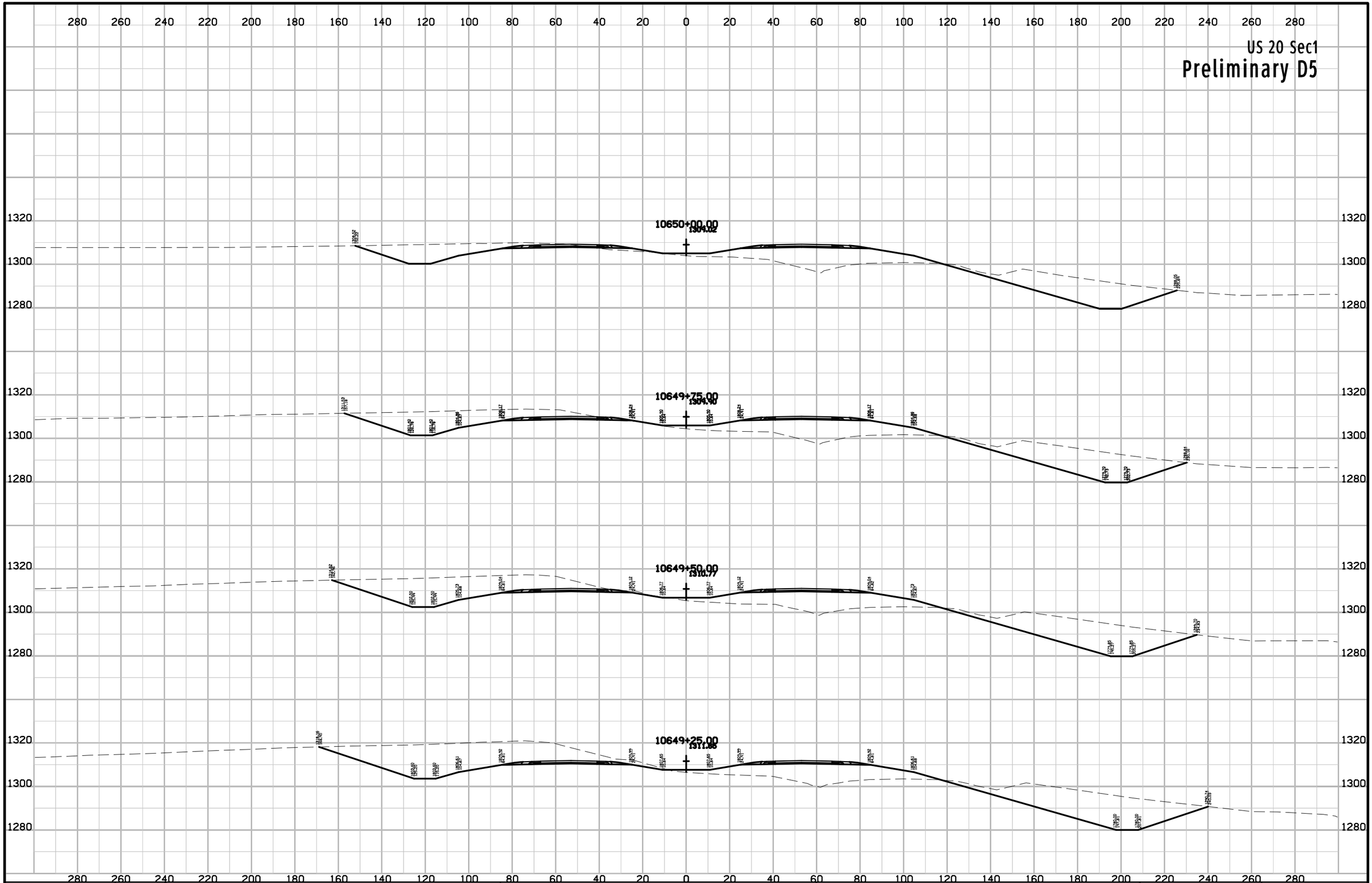
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.359

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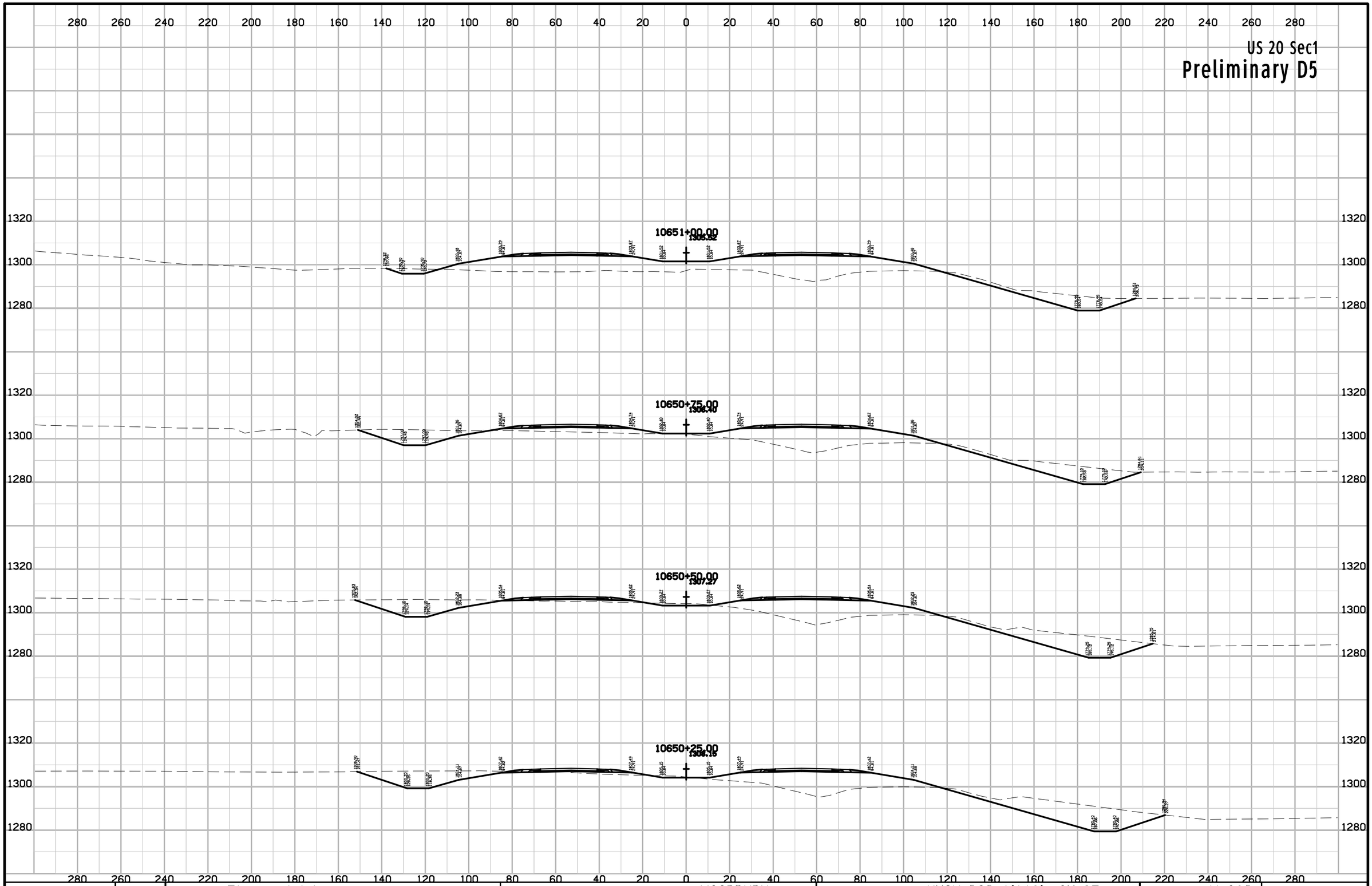
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.360

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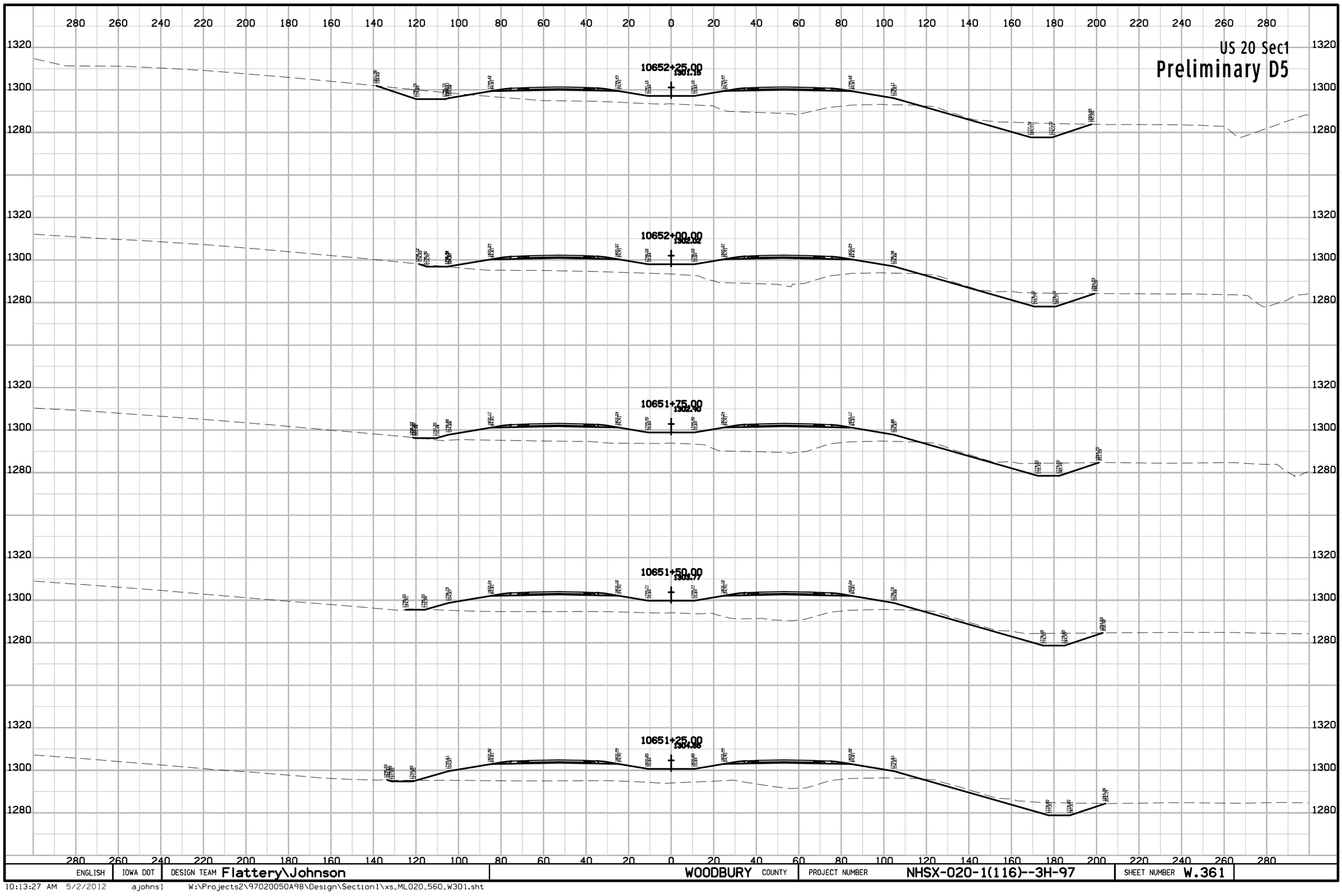
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.361

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US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.362

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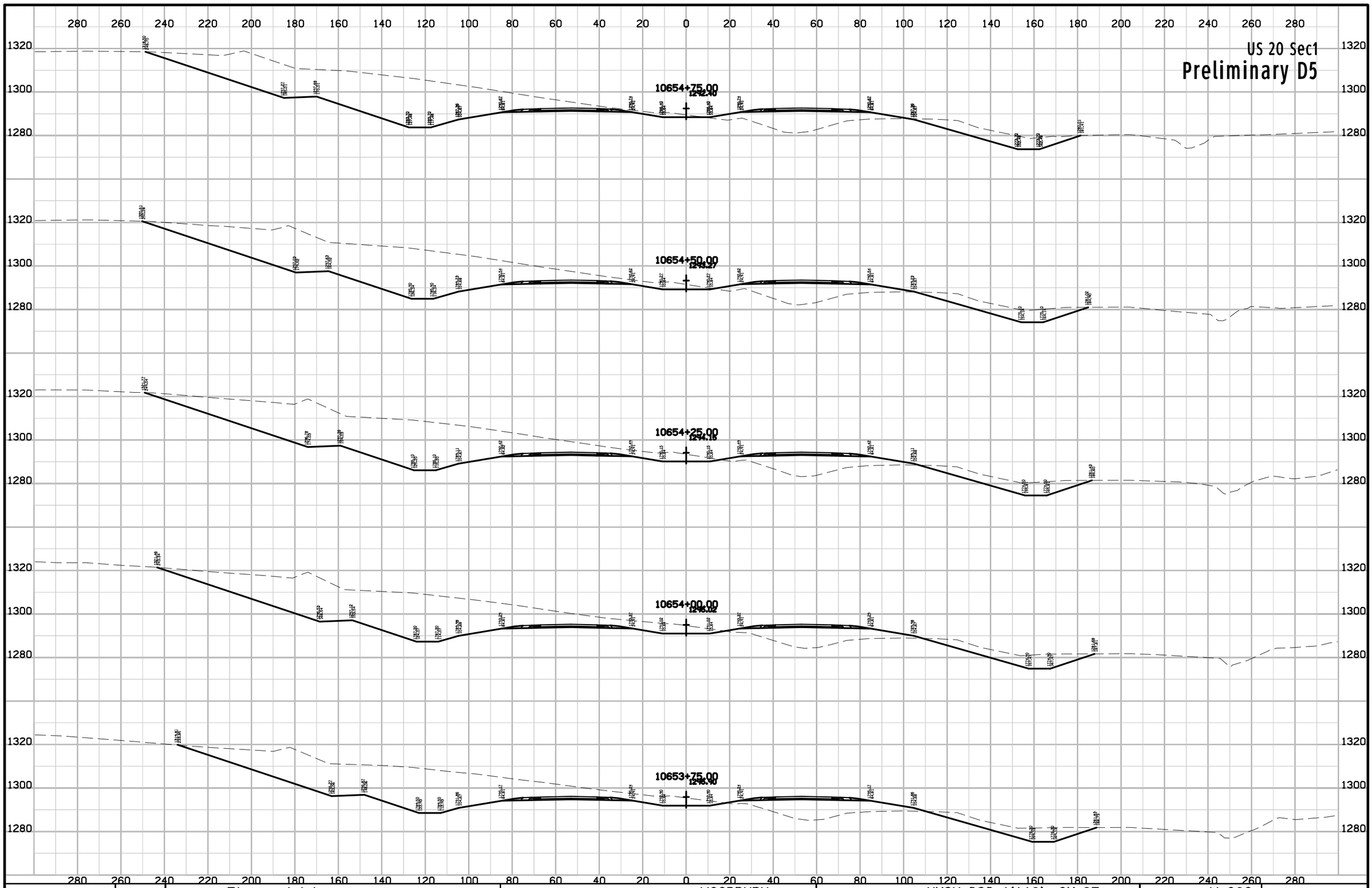
US 20 Sec1

Preliminary D5



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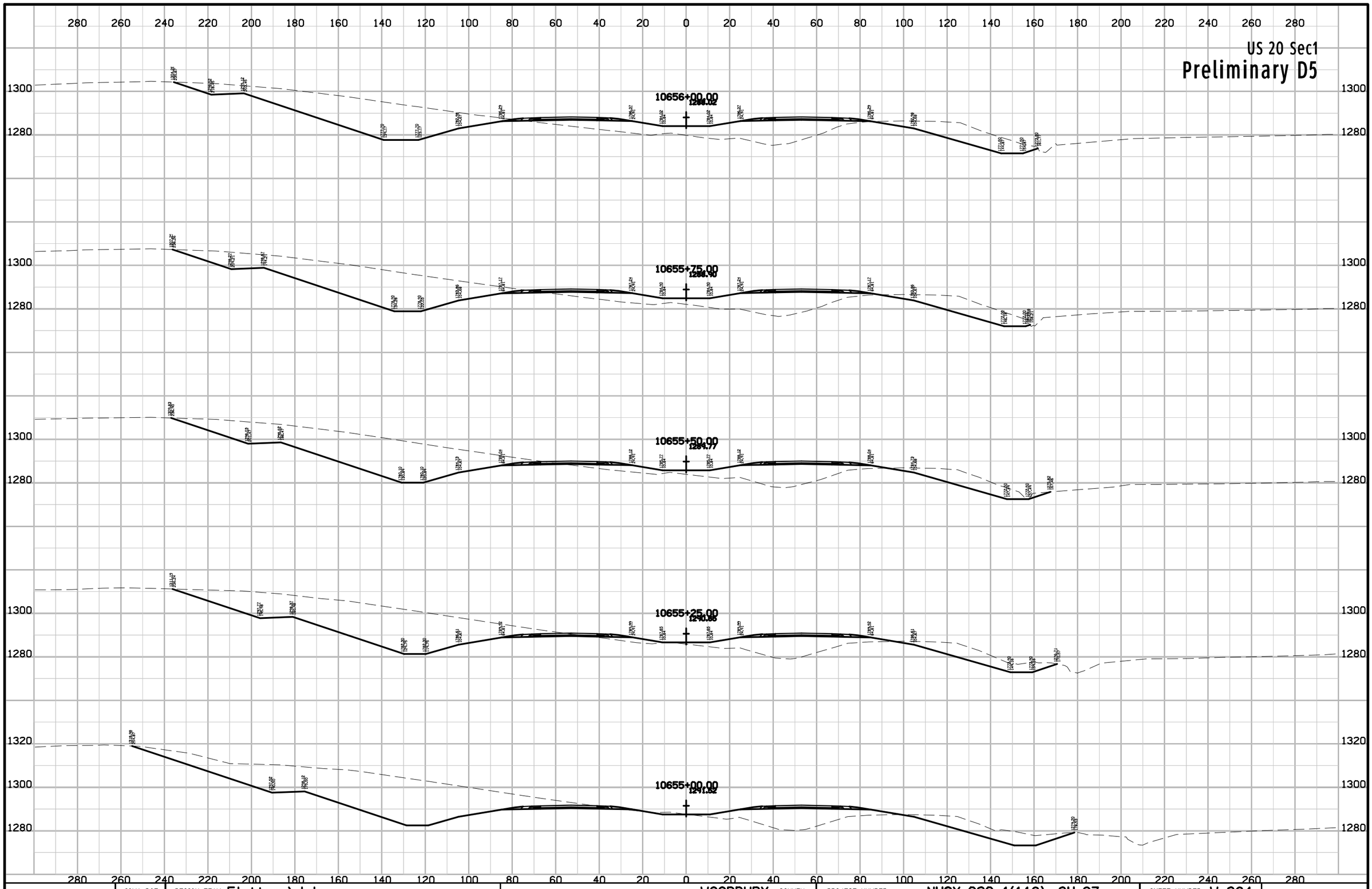
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.364

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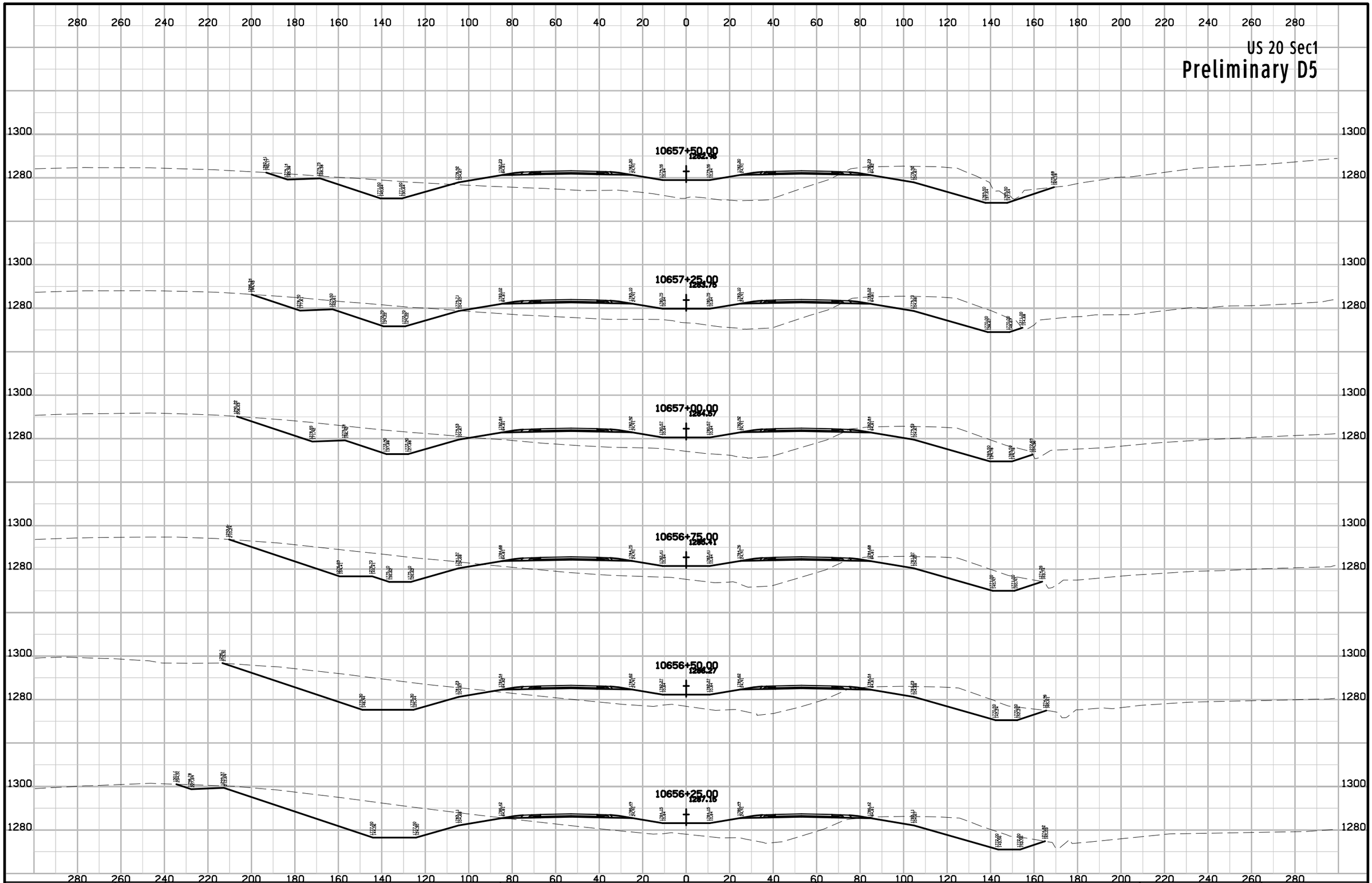
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.365

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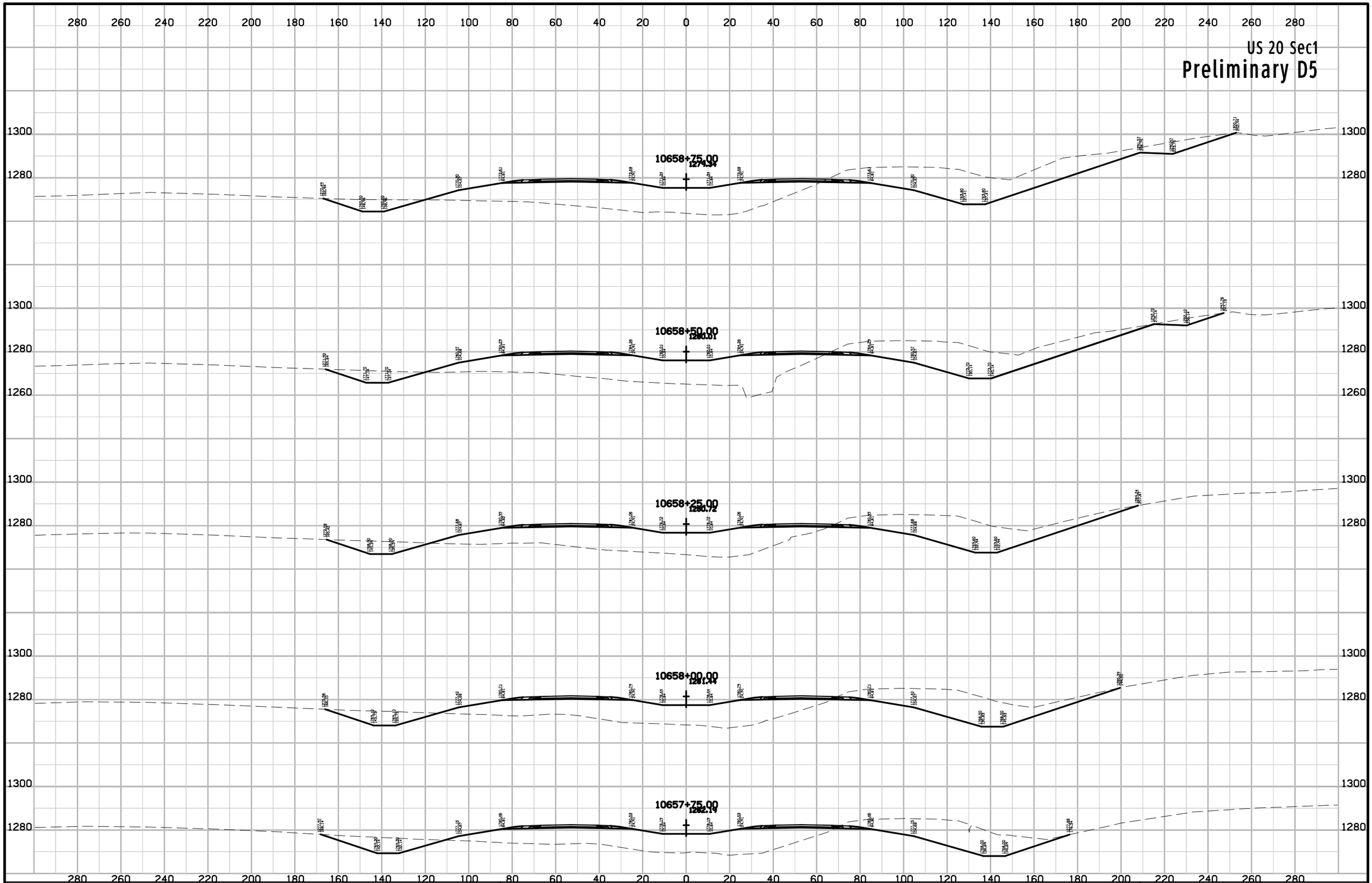
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.366

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US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.367

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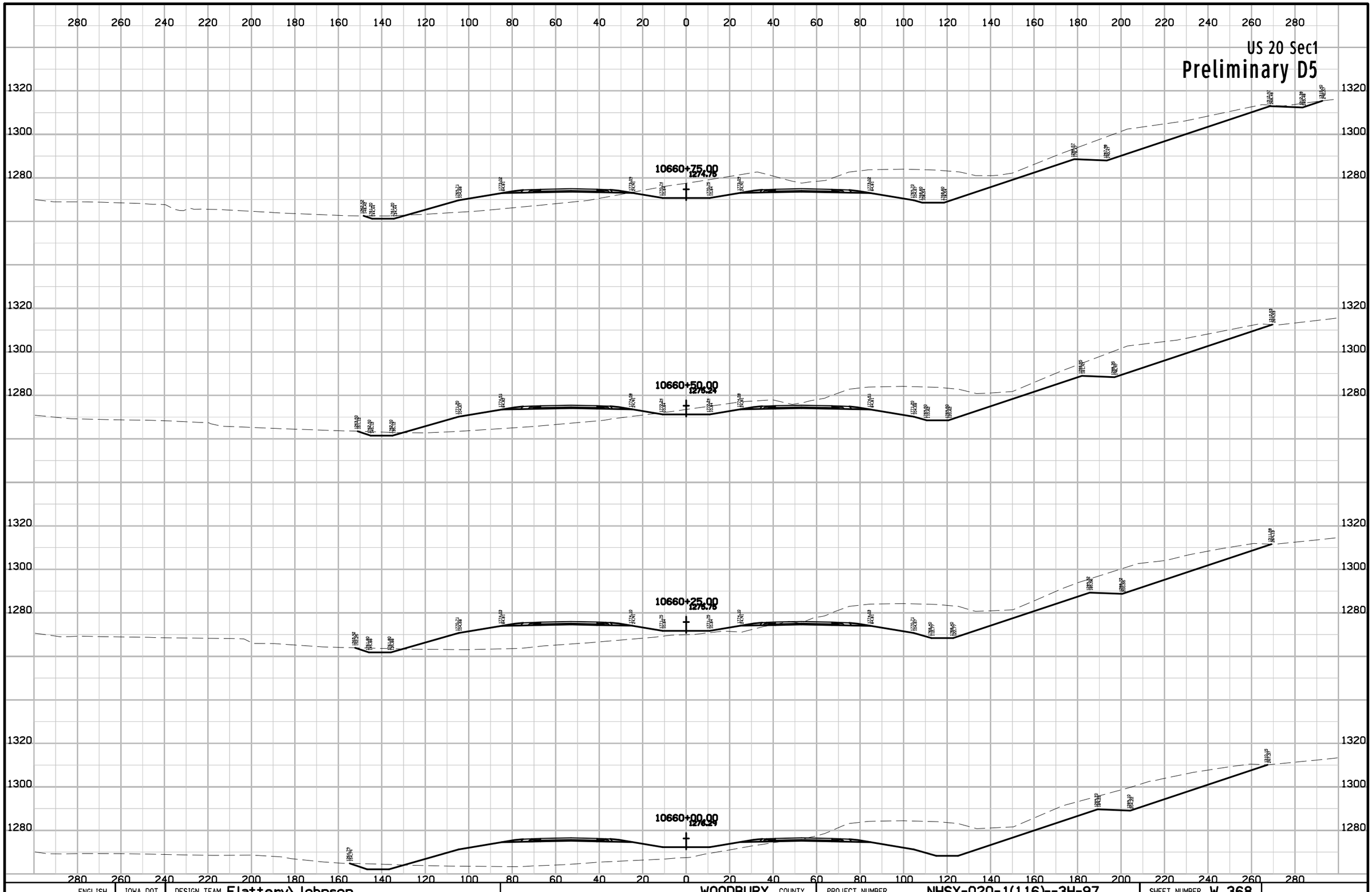
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.368

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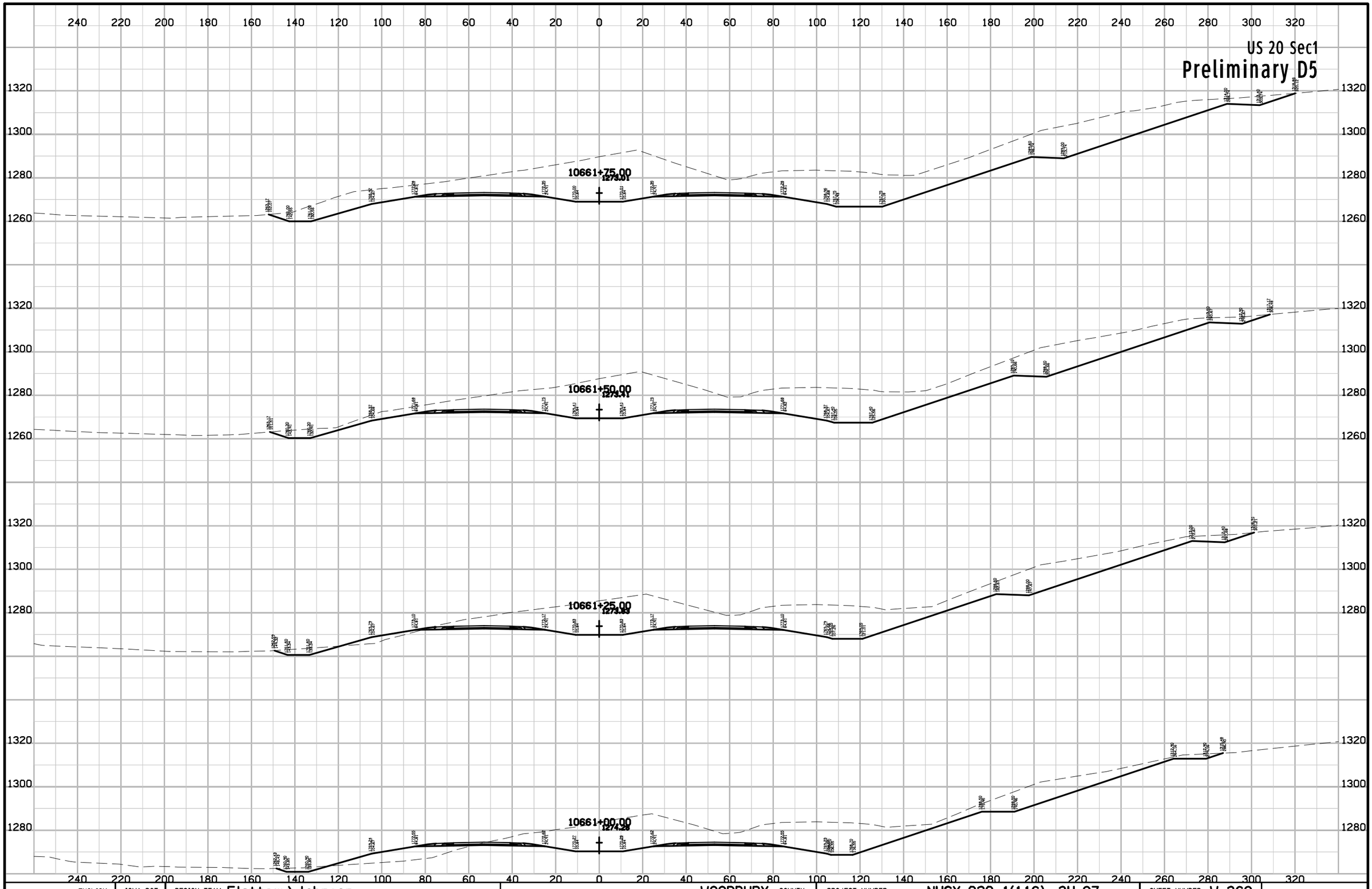
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.369

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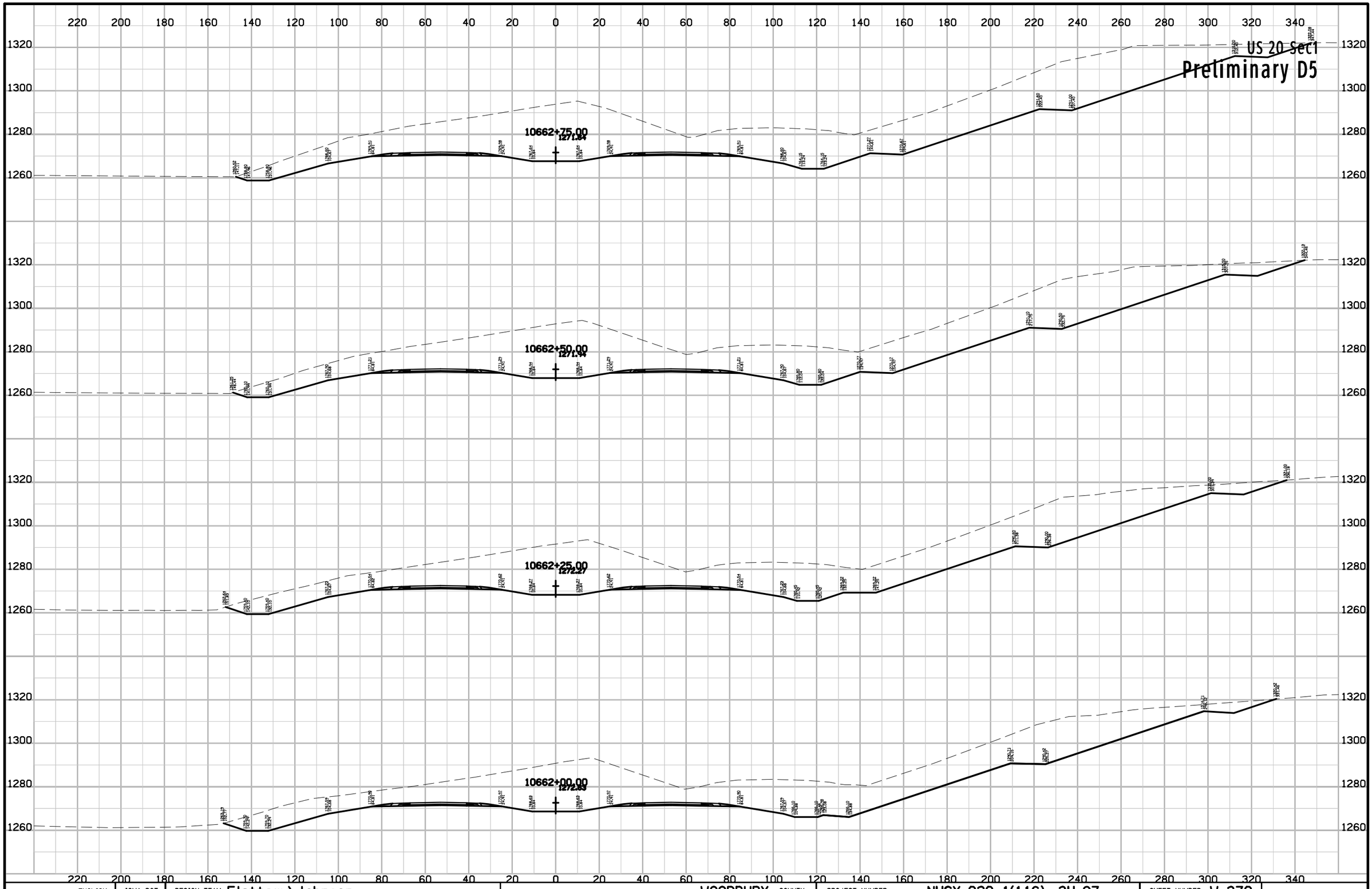
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.370

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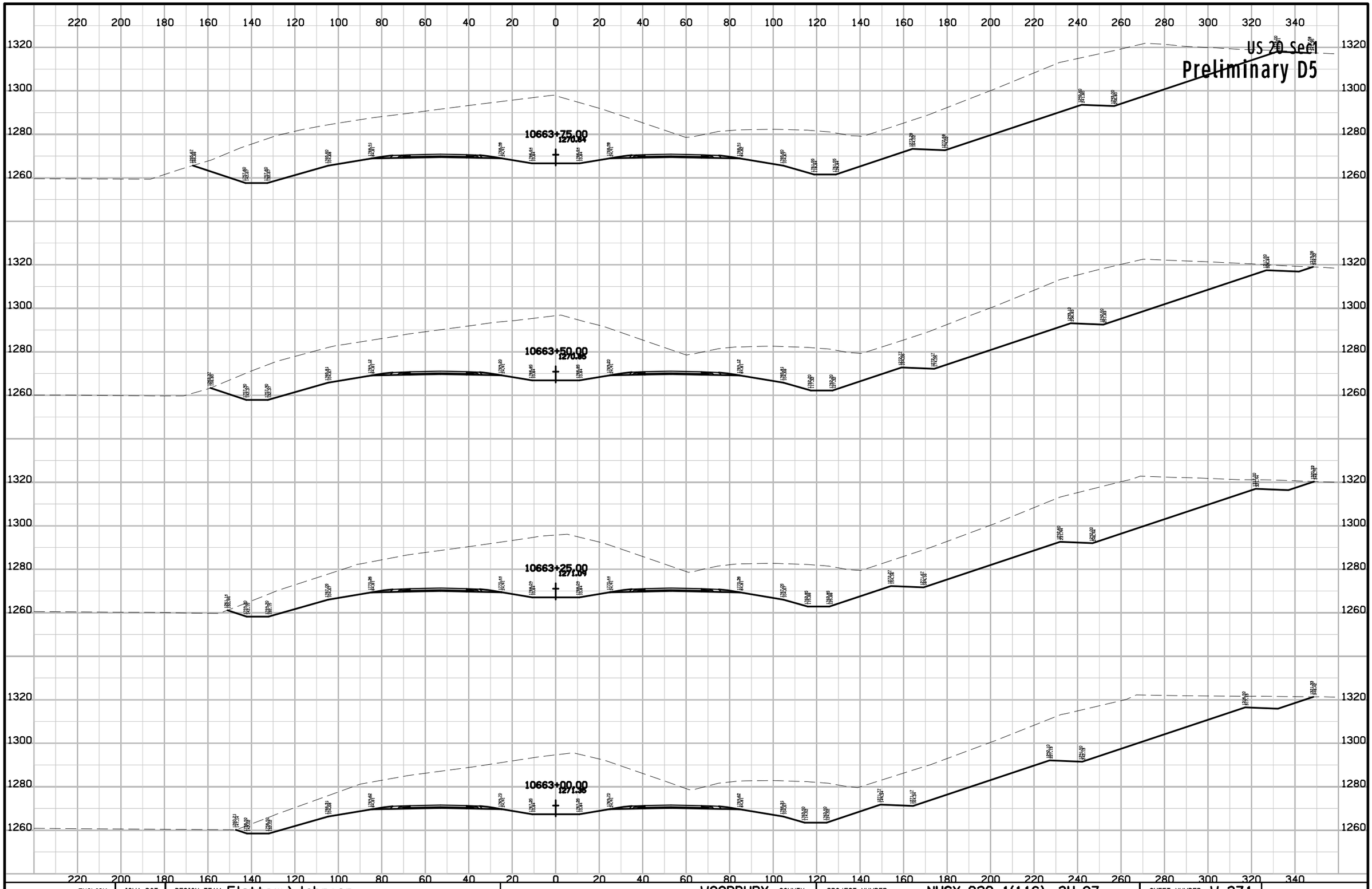
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.371

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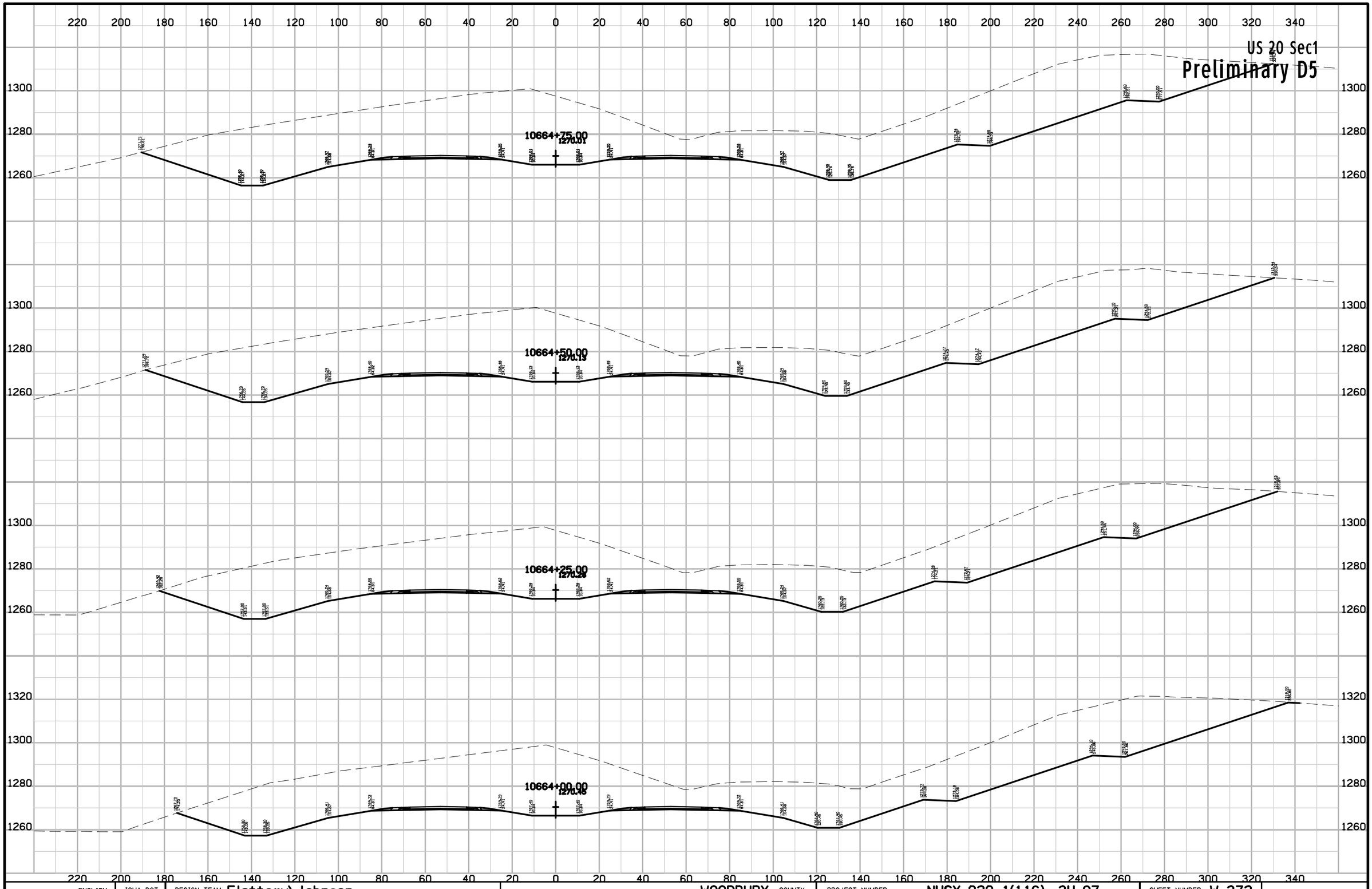
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.372

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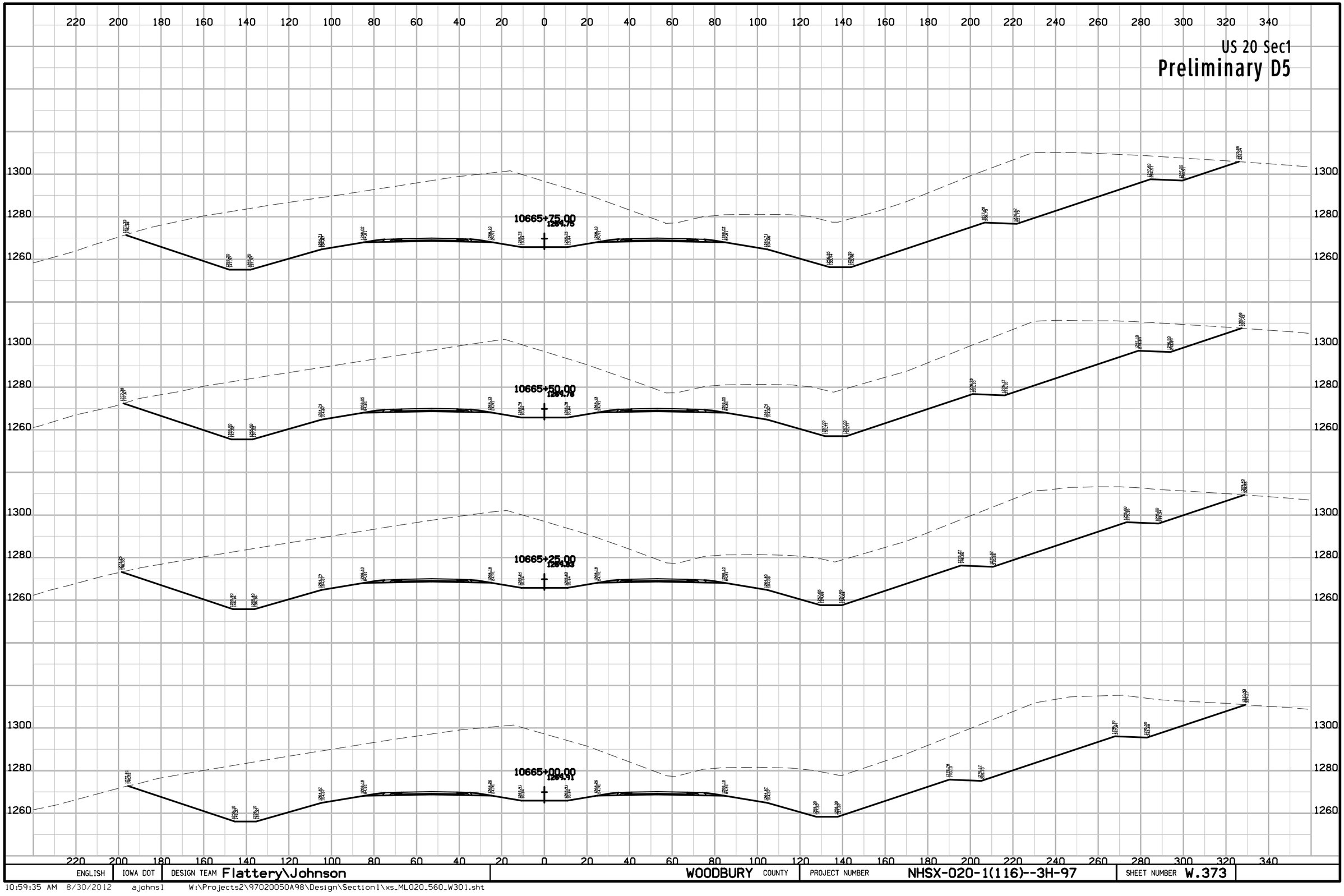
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.373

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US 20 Sec1

Preliminary D5

10667+00.00
1284.95

10666+75.00
1284.87

10666+50.00
1284.80

10666+25.00
1284.78

10666+00.00
1284.78

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.374

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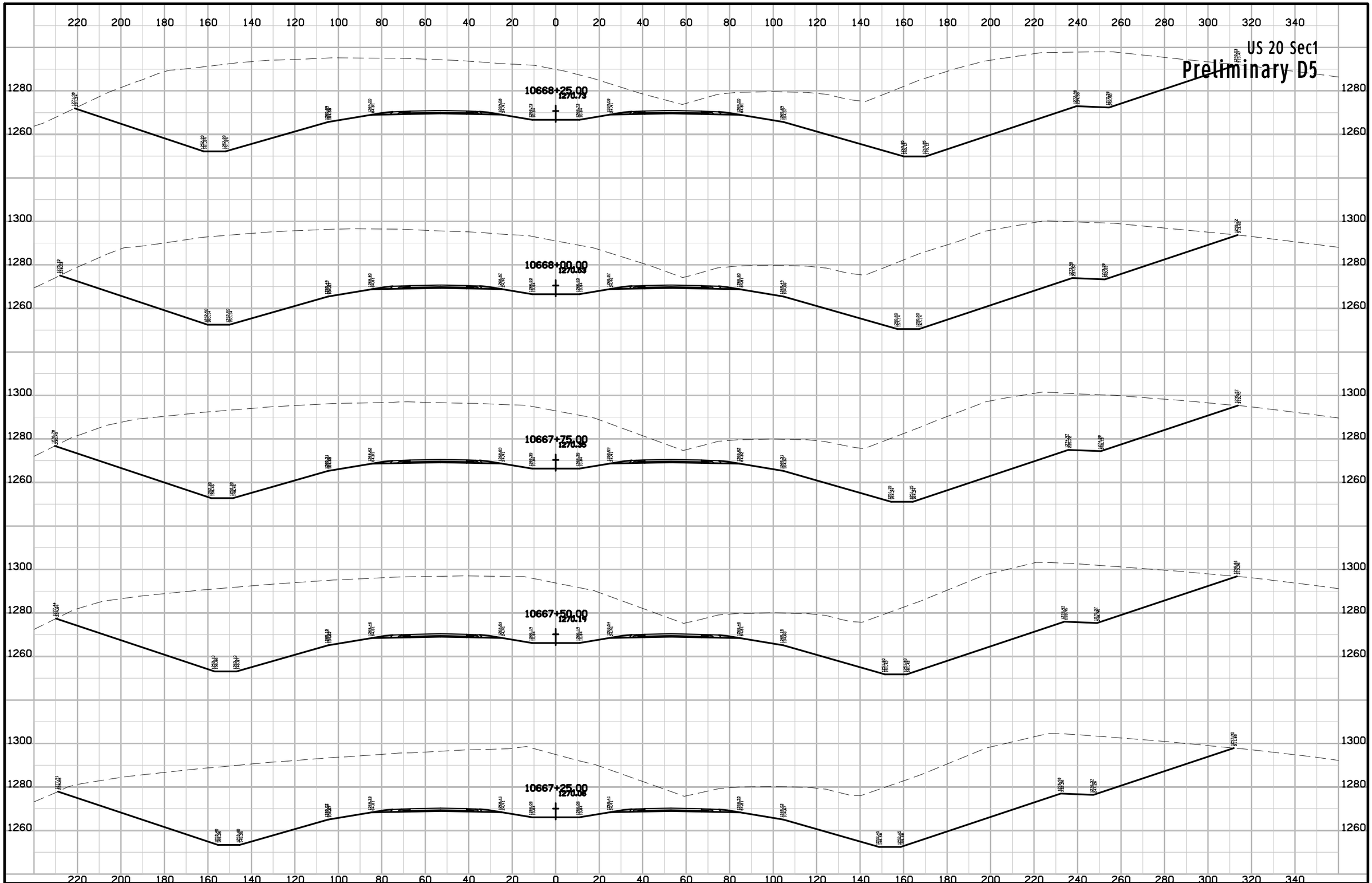
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.375

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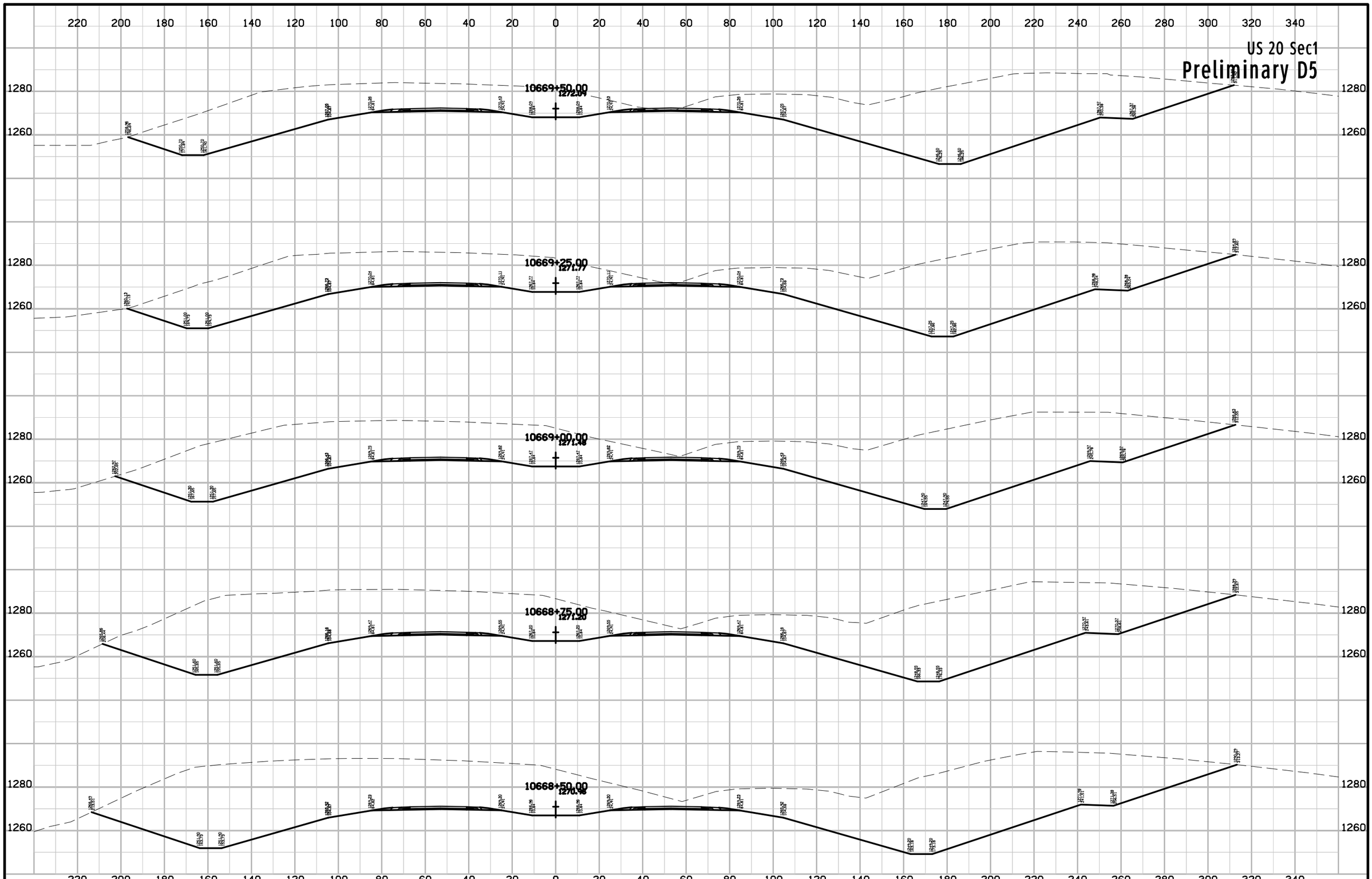
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.376

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US 20 Sec1

Preliminary D5

220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340

1280
1260

10670+75.00
1274.02

10670+50.00
1273.54

10670+25.00
1273.18

10670+00.00
1272.74

10669+75.00
1272.43

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.377

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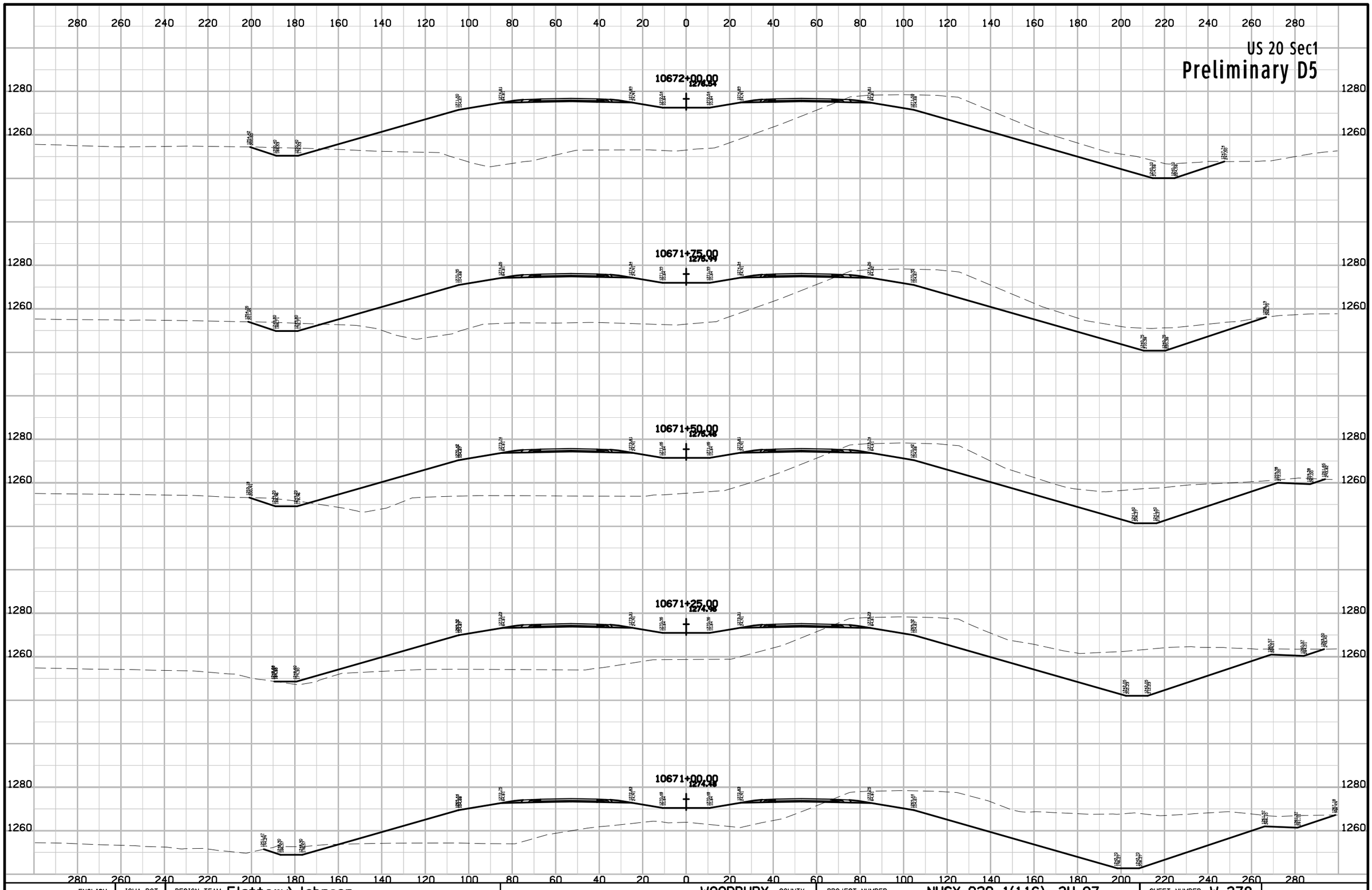
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.378

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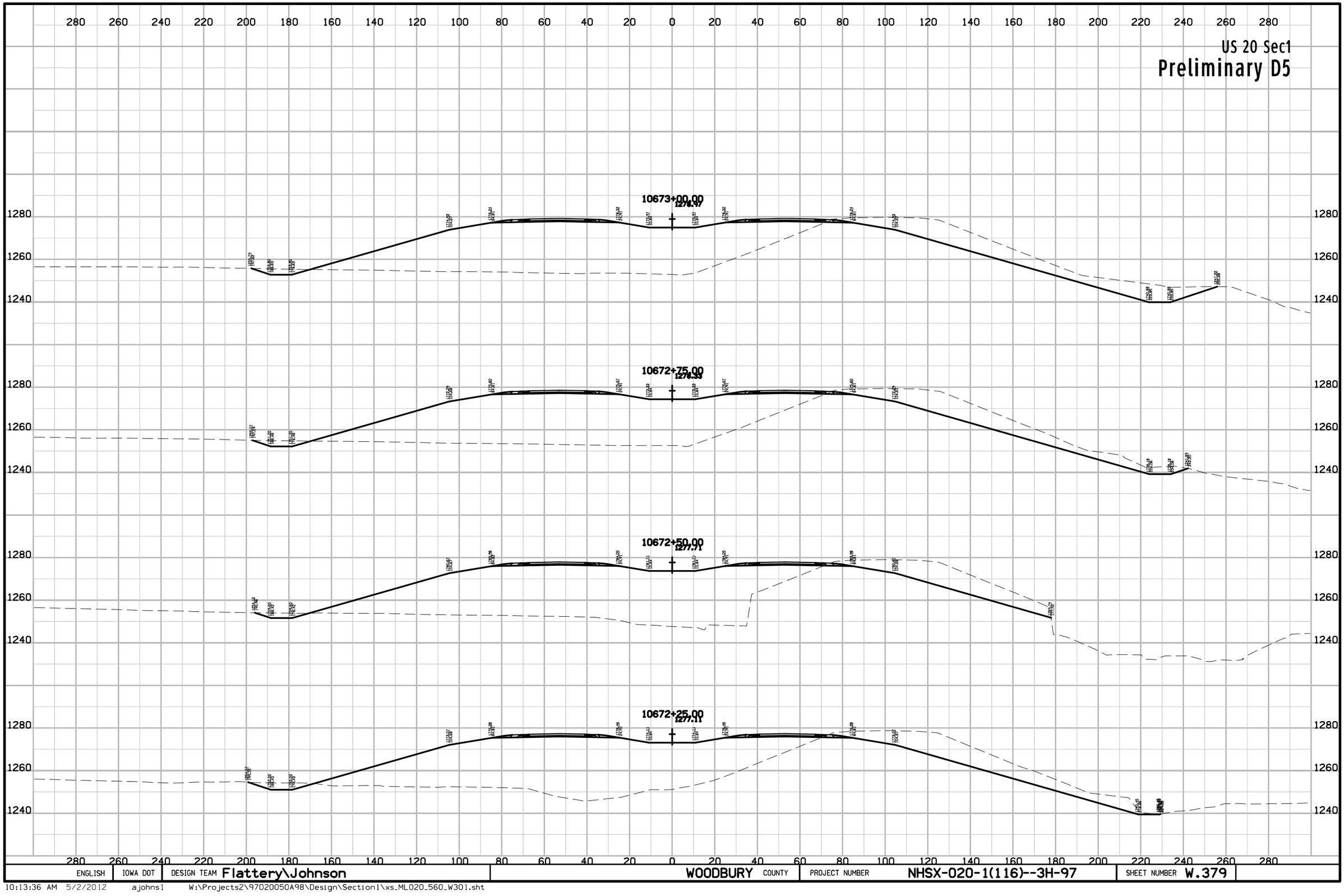
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.379

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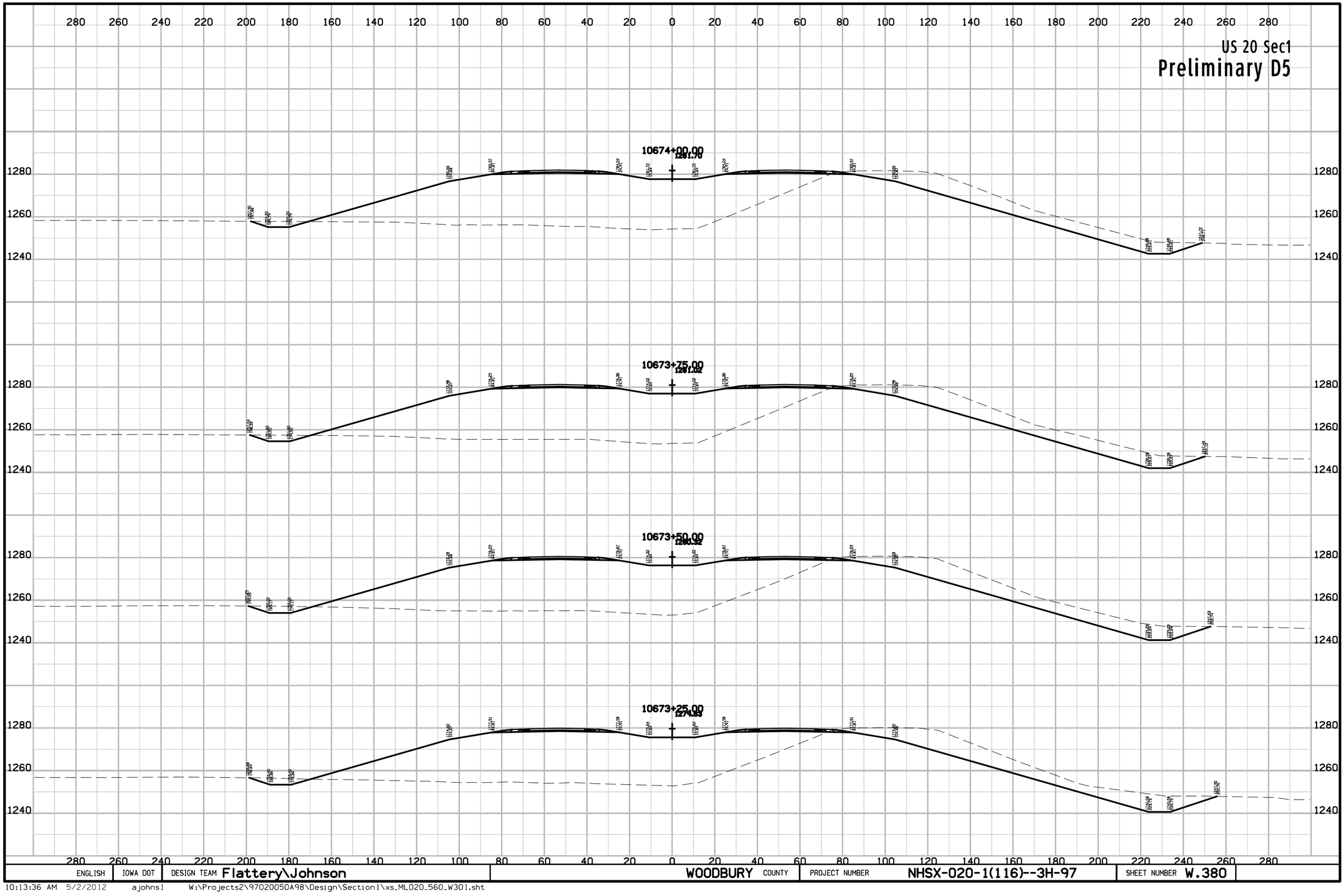
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.380

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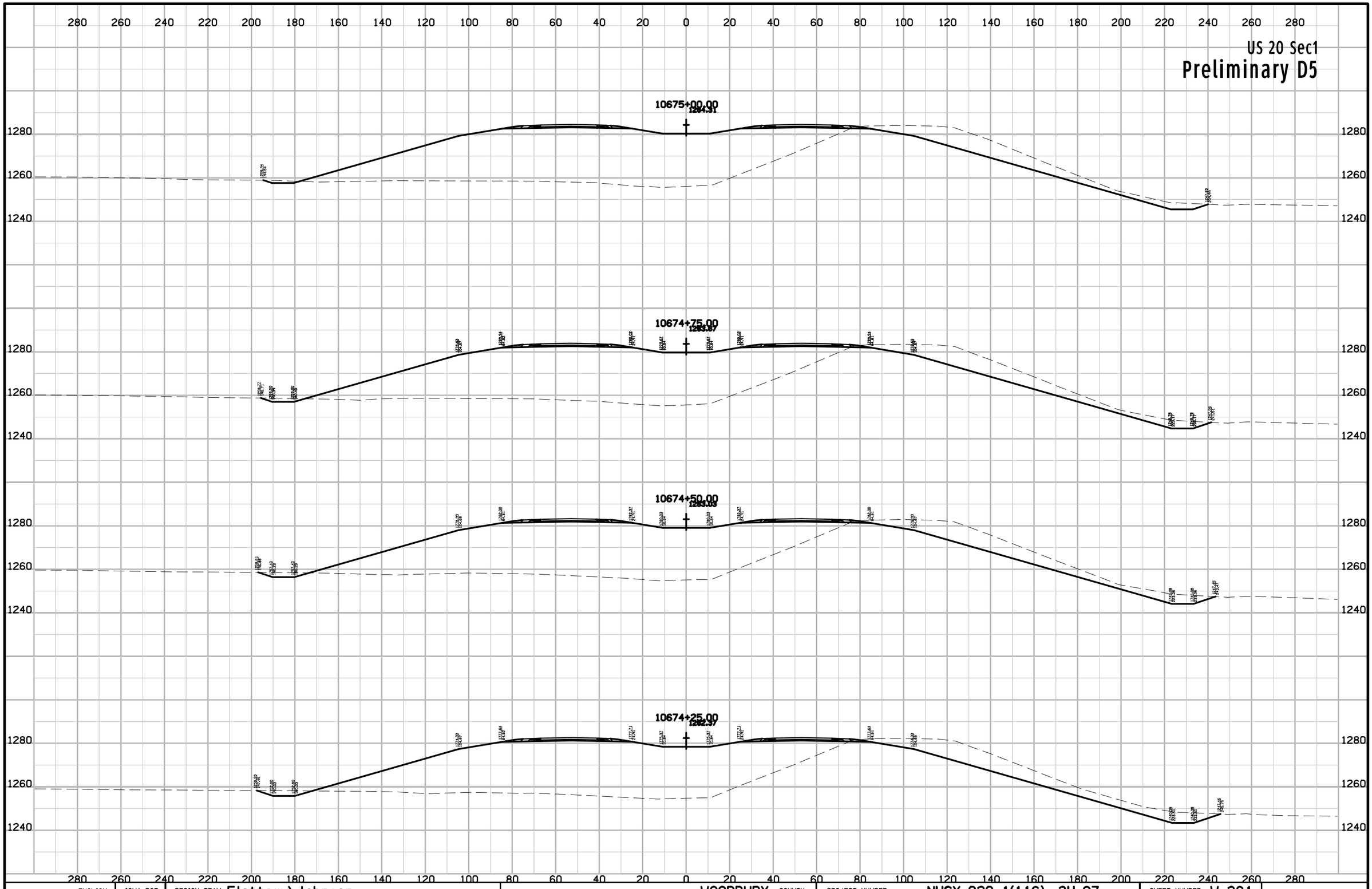
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.381

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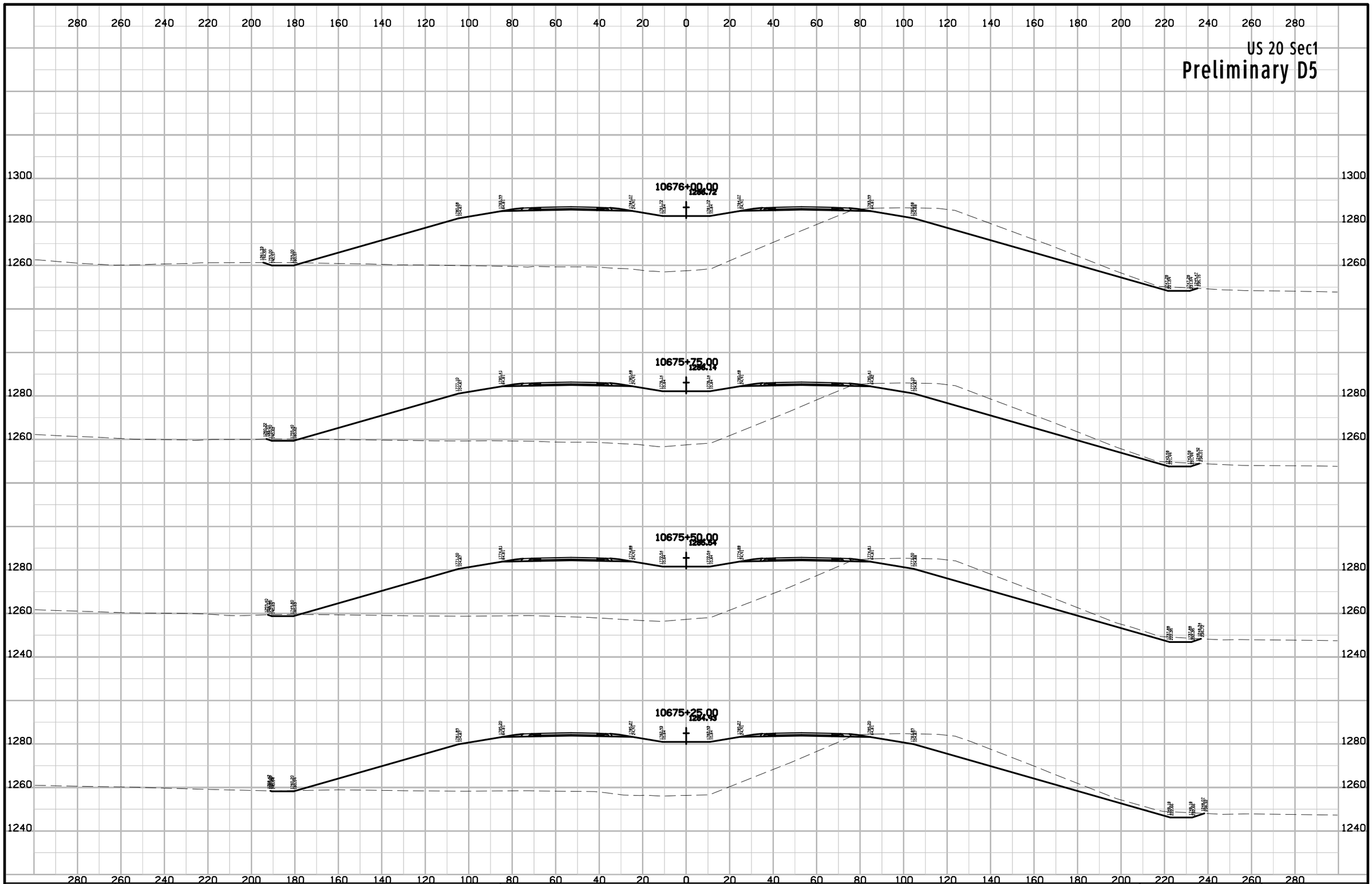
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.382

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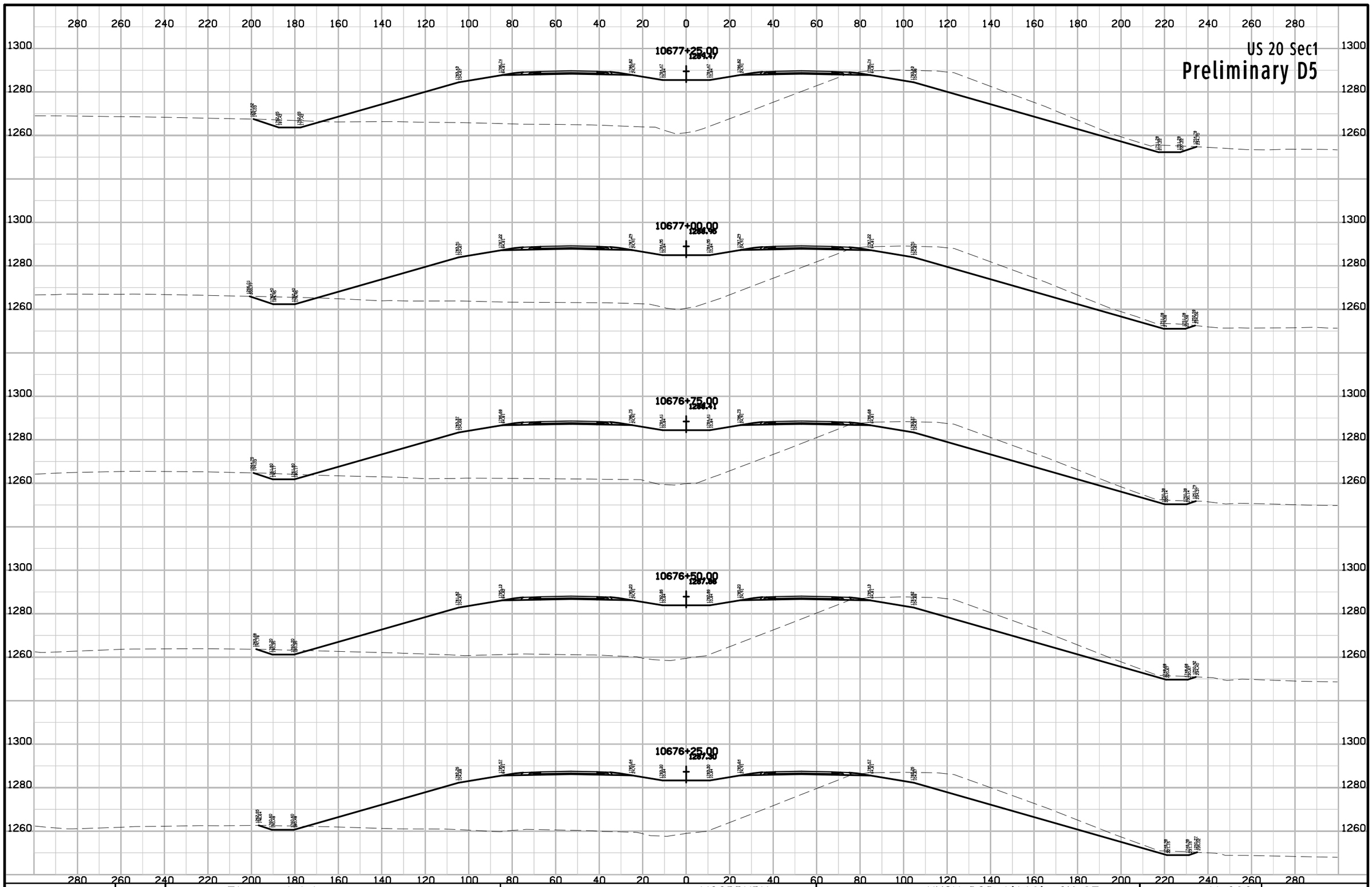
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.383

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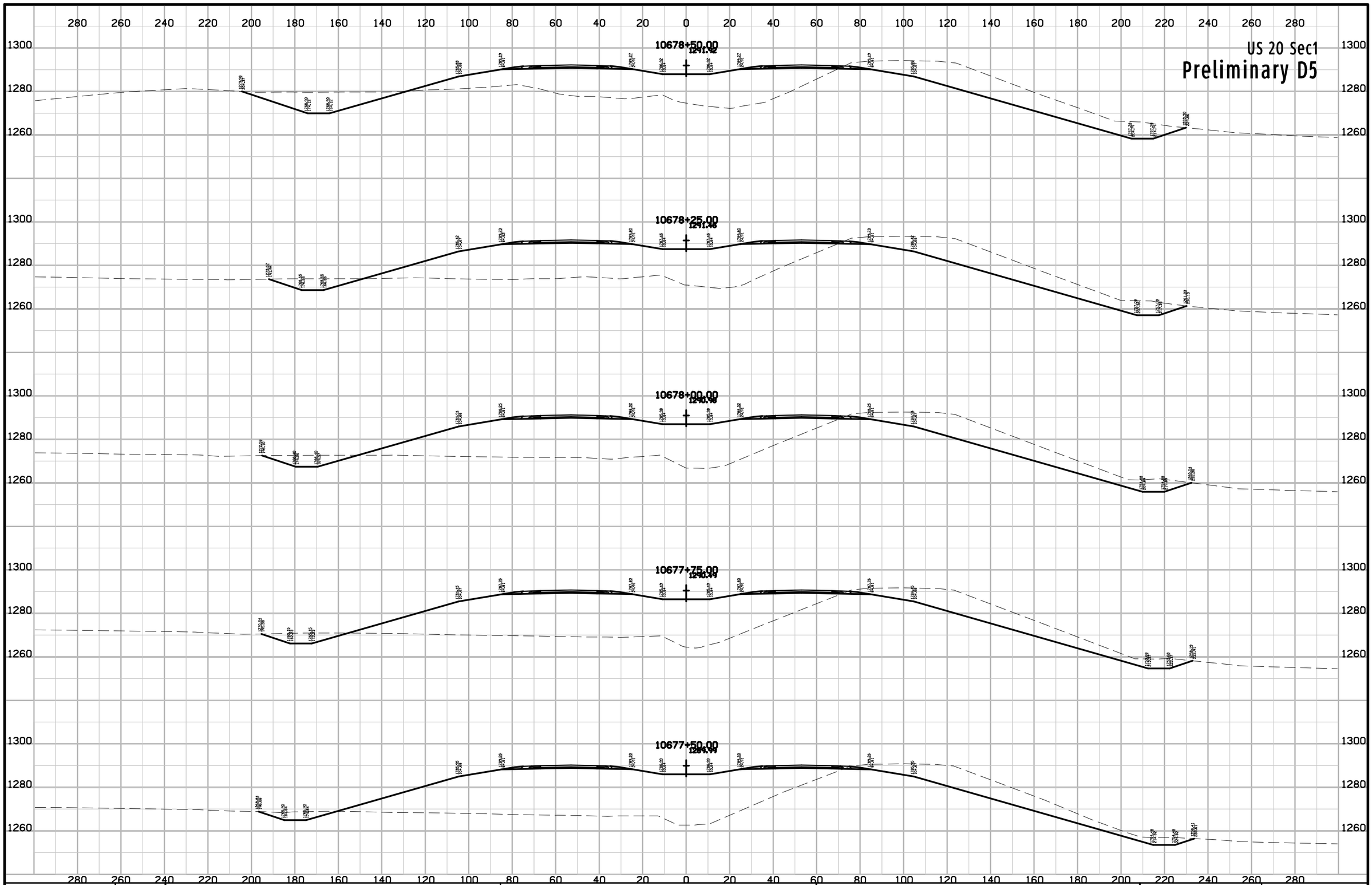
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.384	

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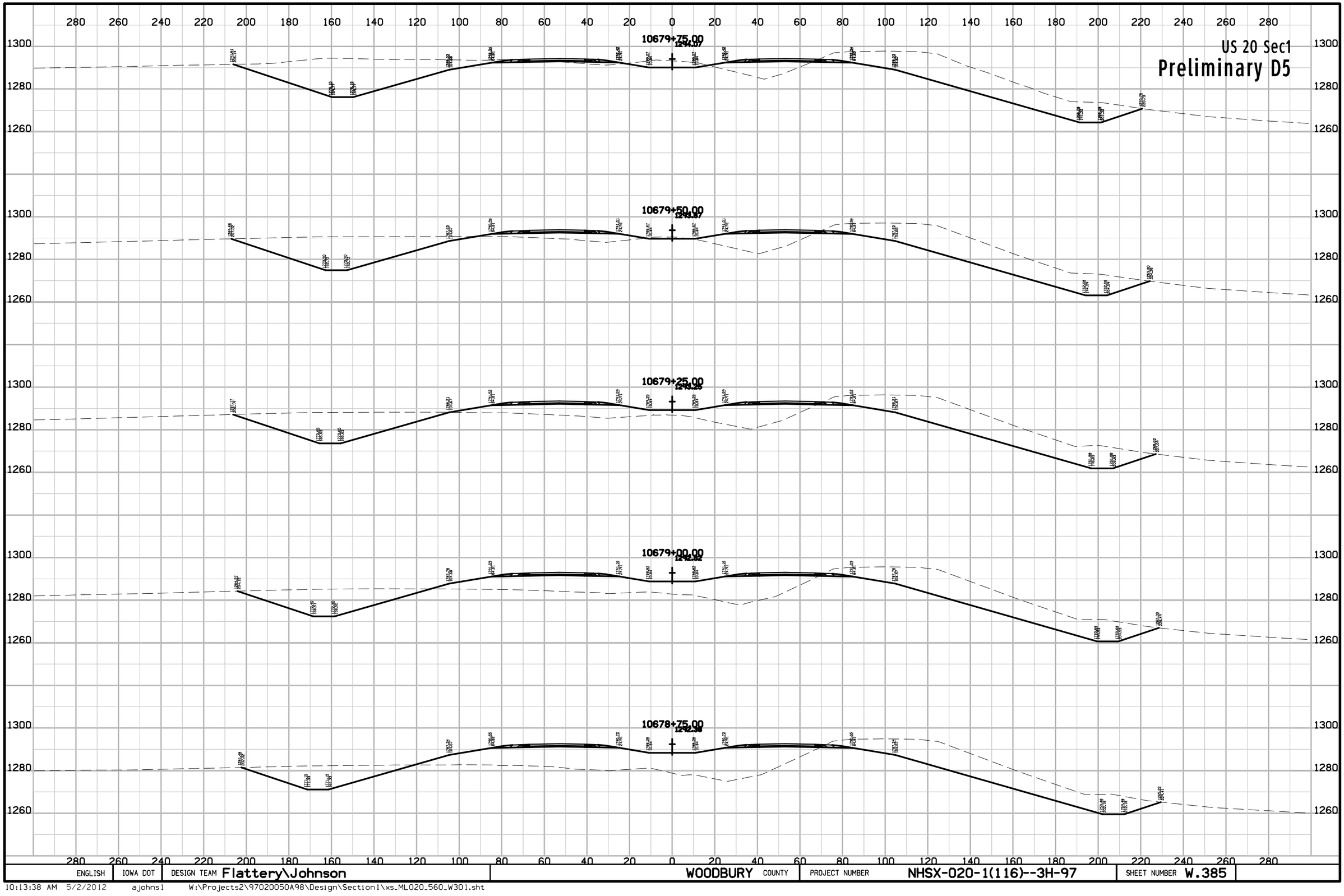
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.385

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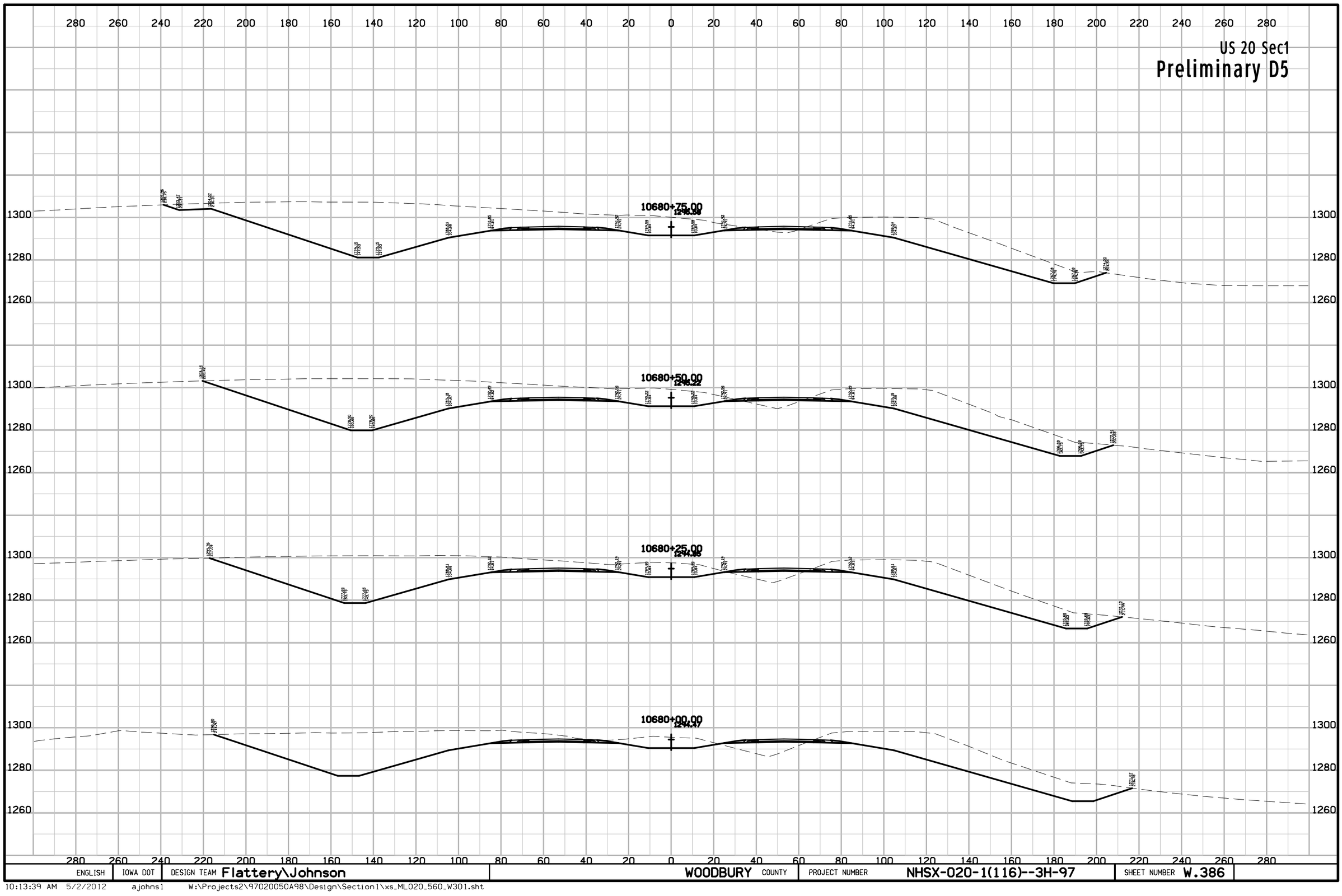
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.386

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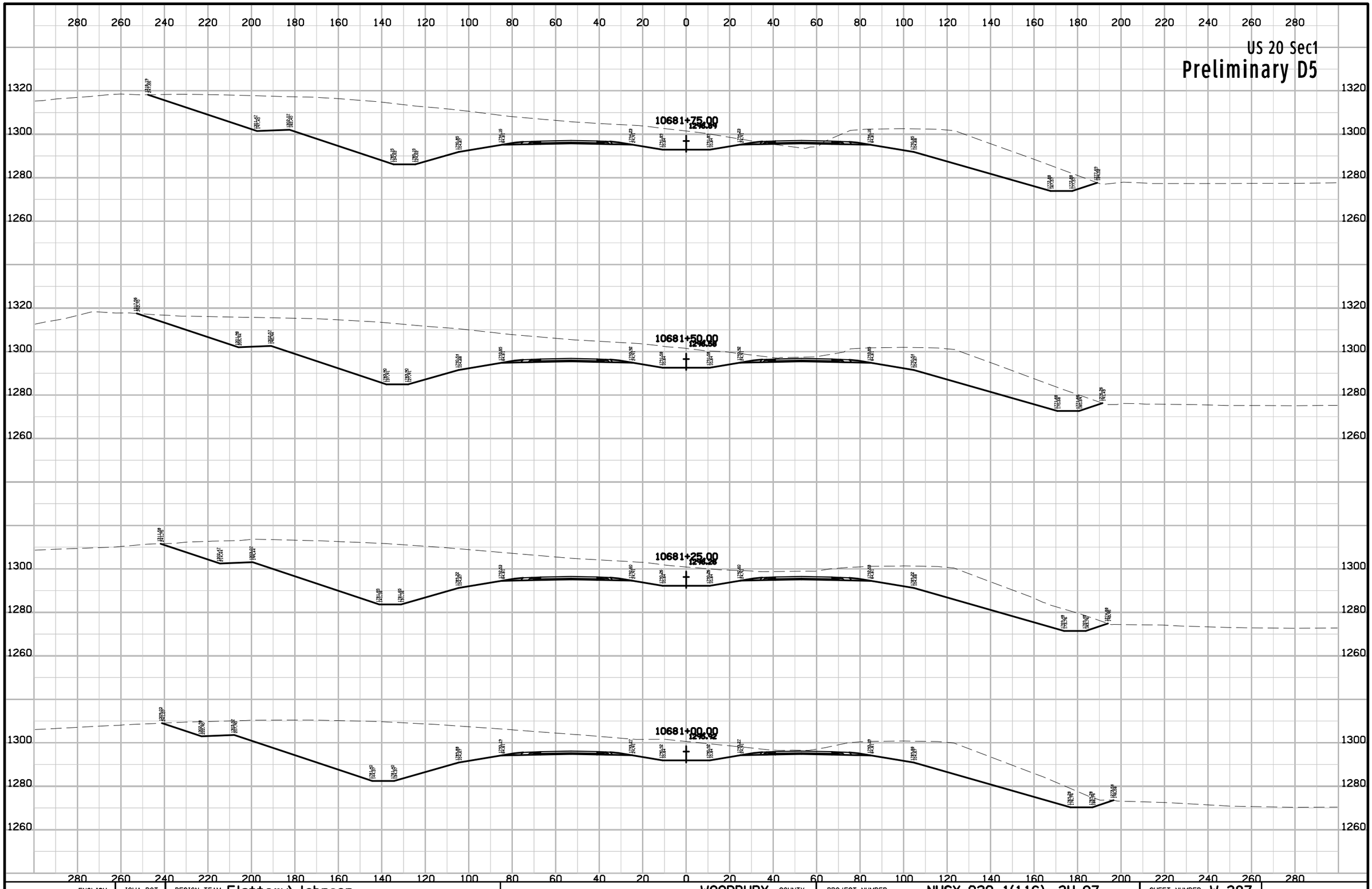
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.387

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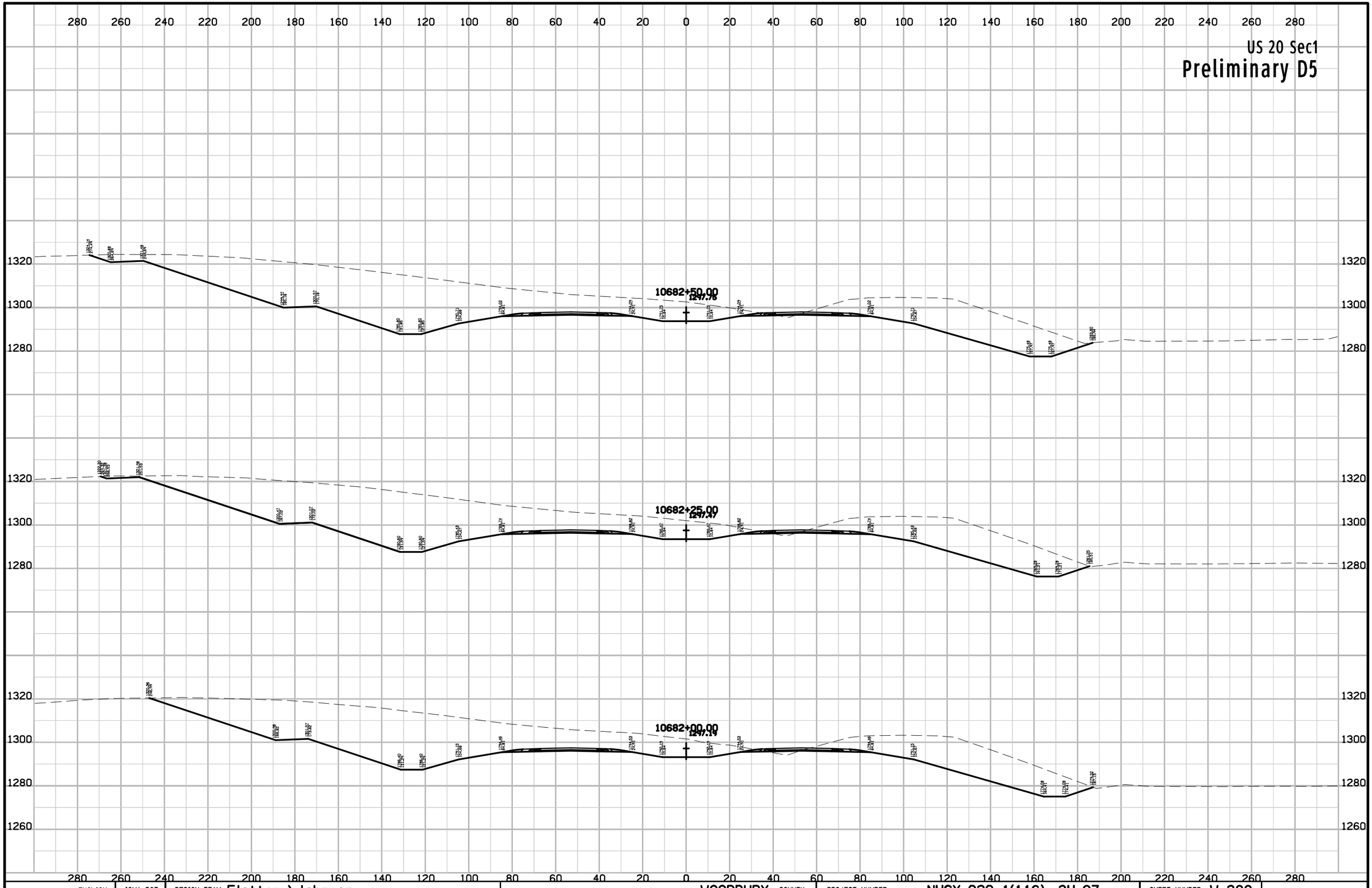
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.388

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1320
1300
1280

10683+50.00
1240.72

10683+25.00
1240.80

10683+00.00
1240.28

10682+75.00
1240.01

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.389

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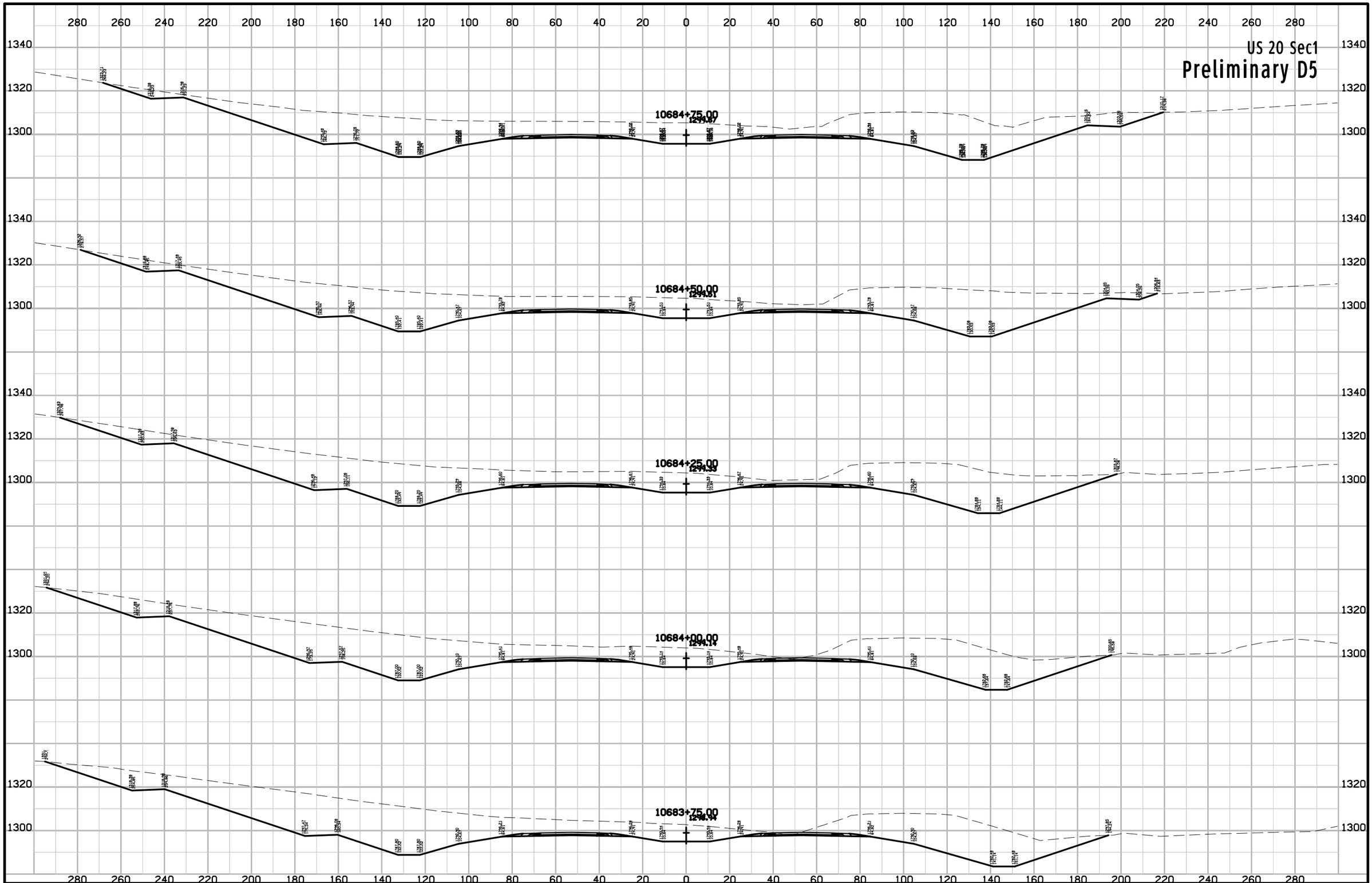
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.390

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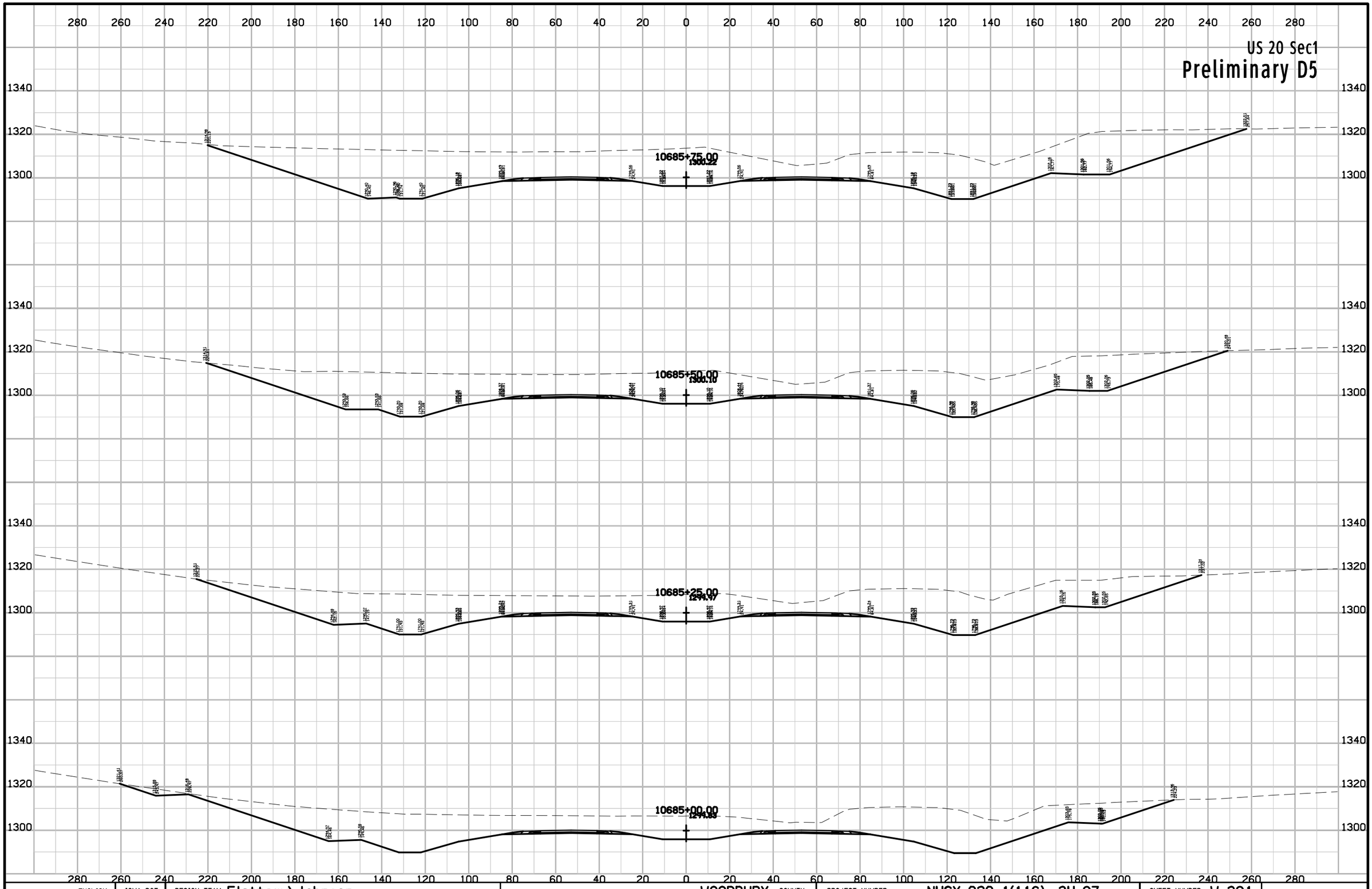
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.391

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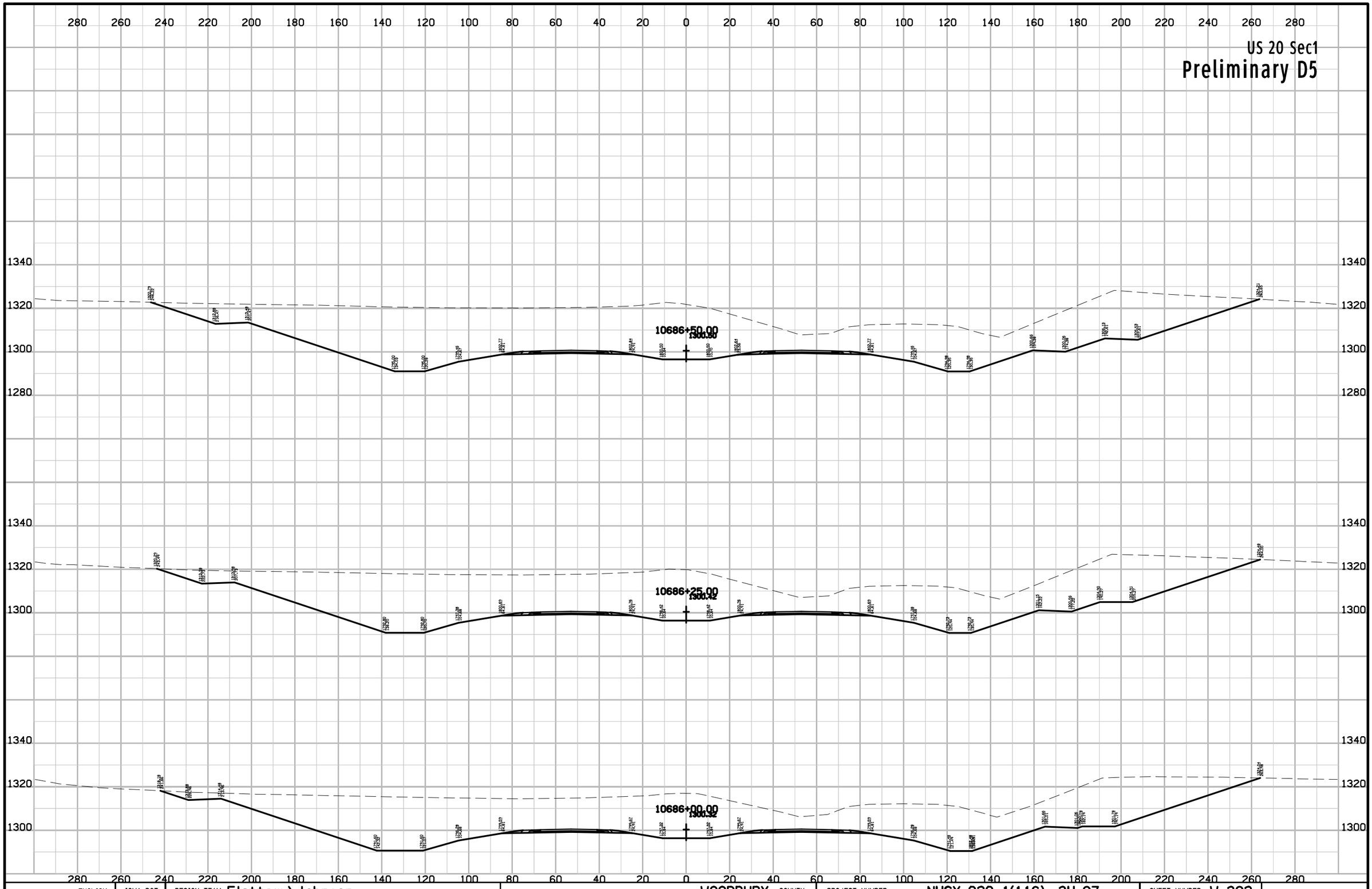
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.392

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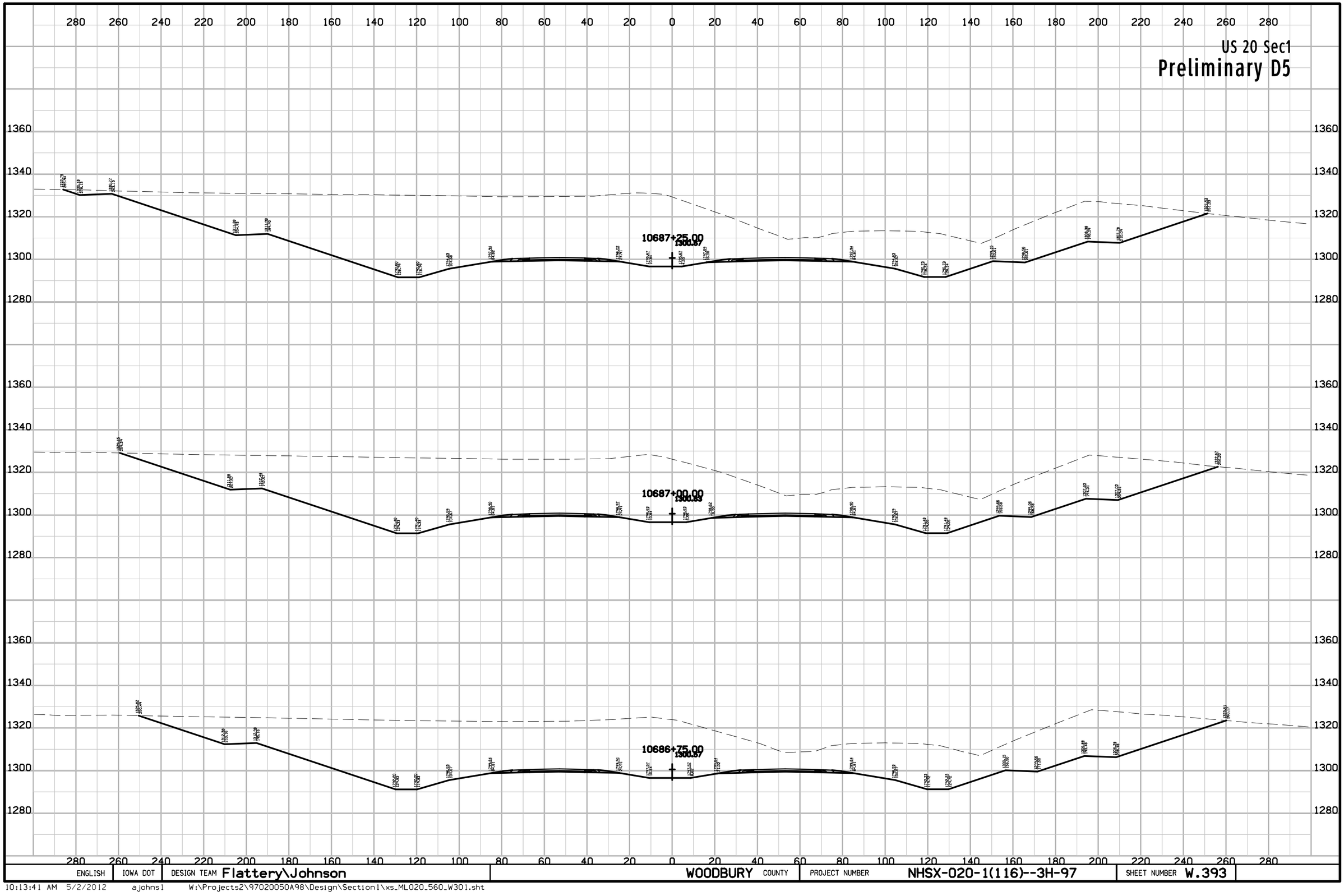
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.393

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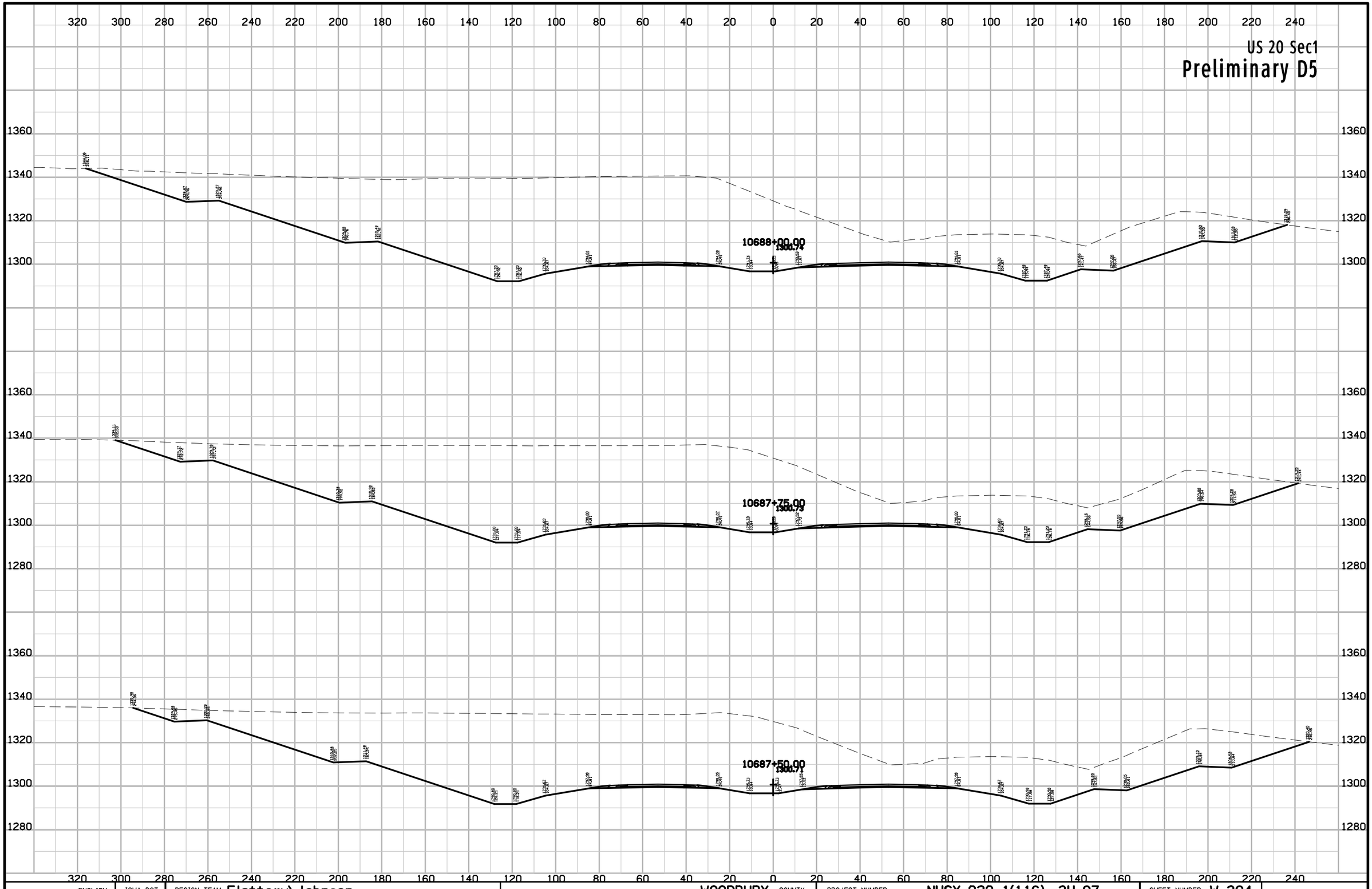
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.394

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US 20 Sec1

Preliminary D5

340 320 300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220

1360
1340
1320
1300

10688+75.00
1300.75

10688+50.00
1300.72

10688+25.00
1300.74

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.395

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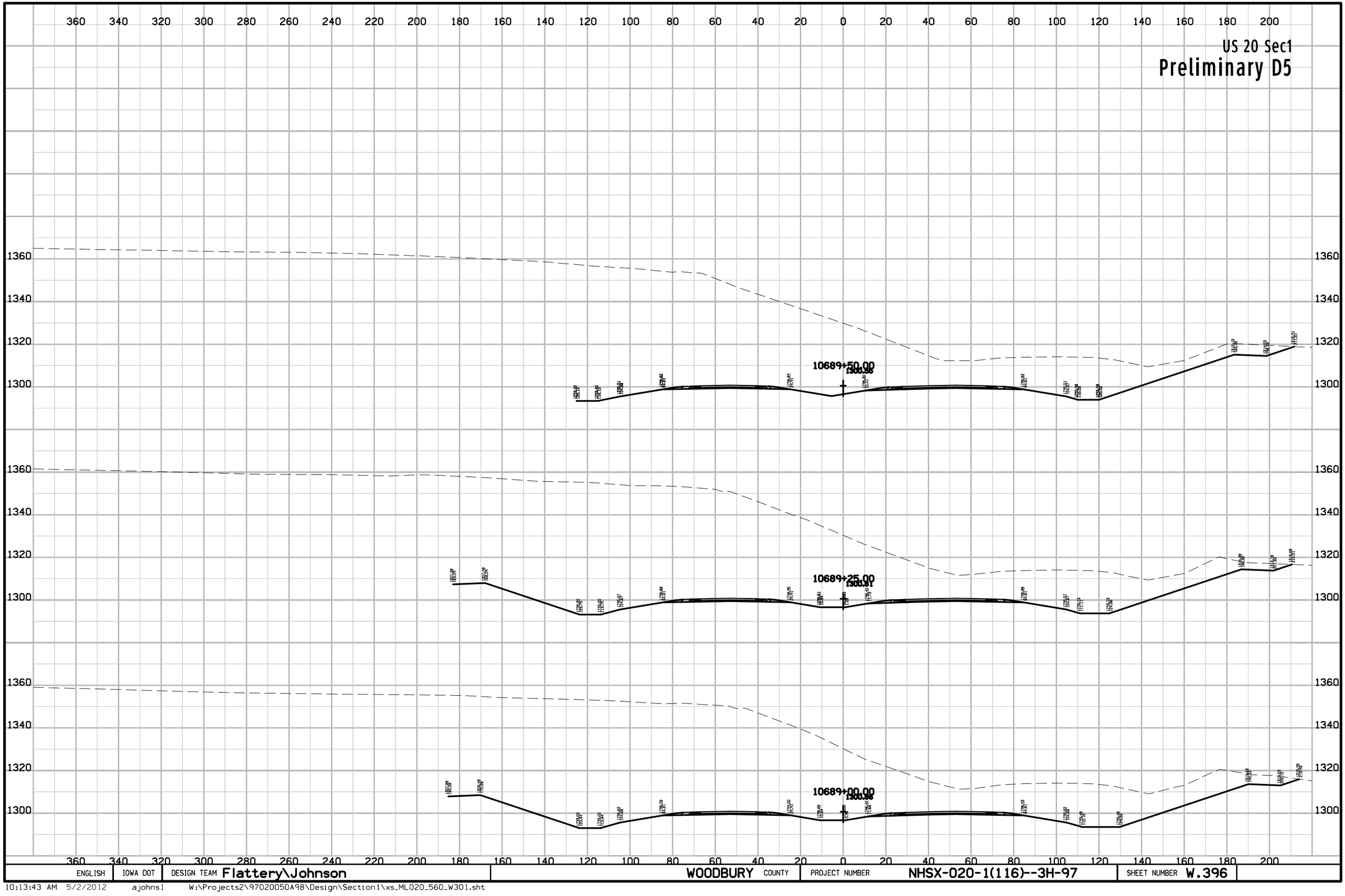
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.396

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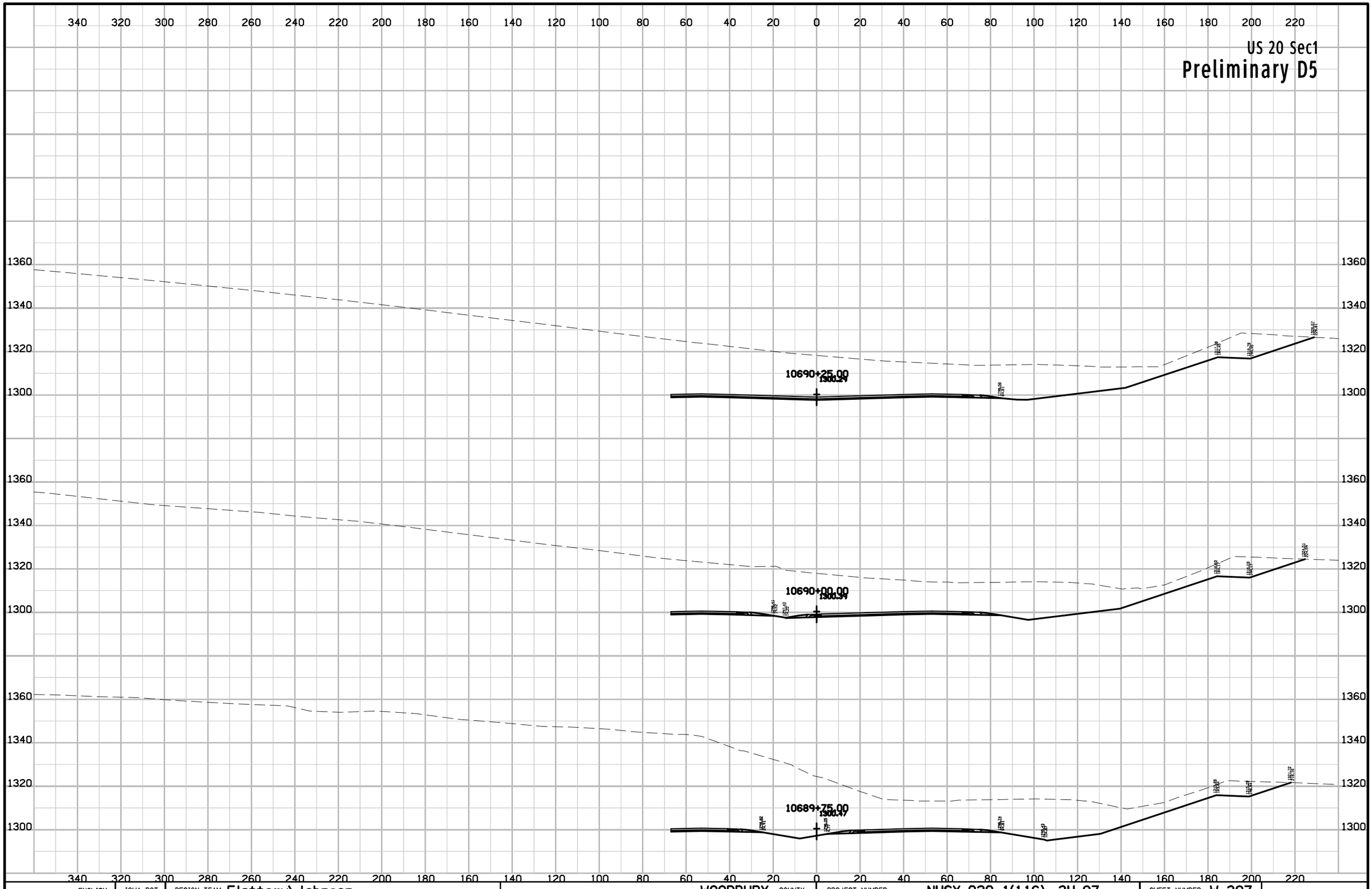
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.397

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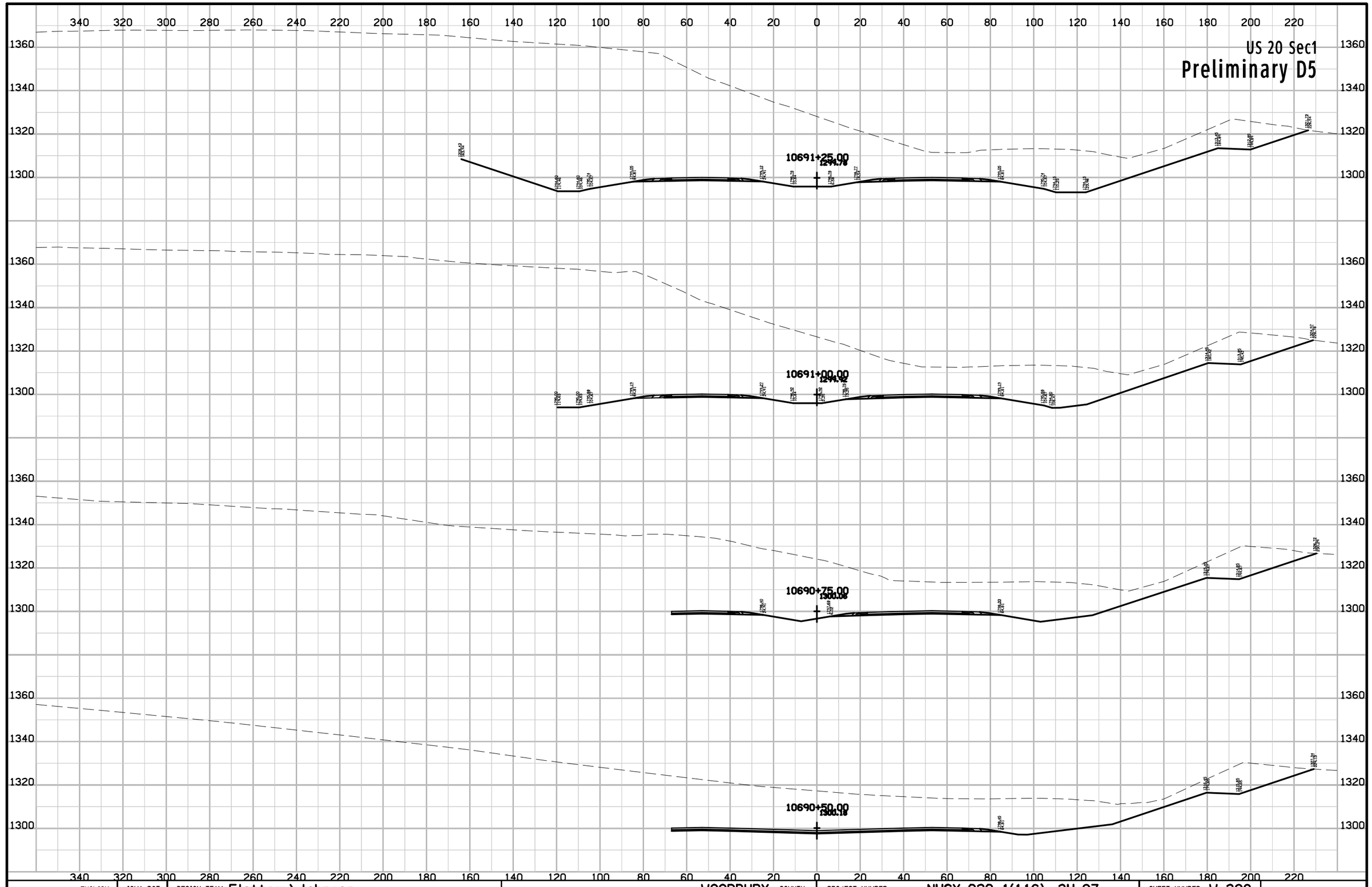
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.398

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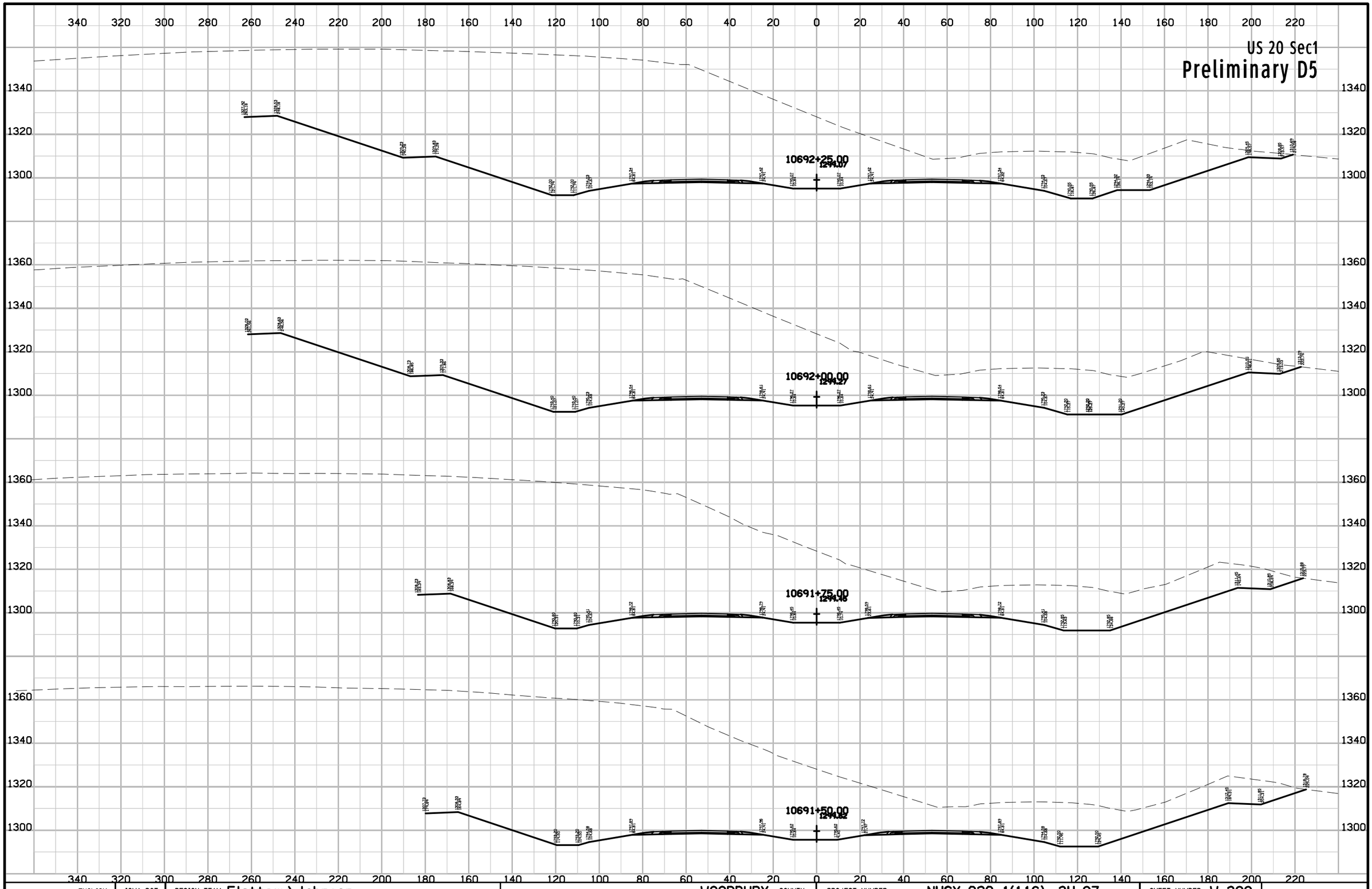
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.399

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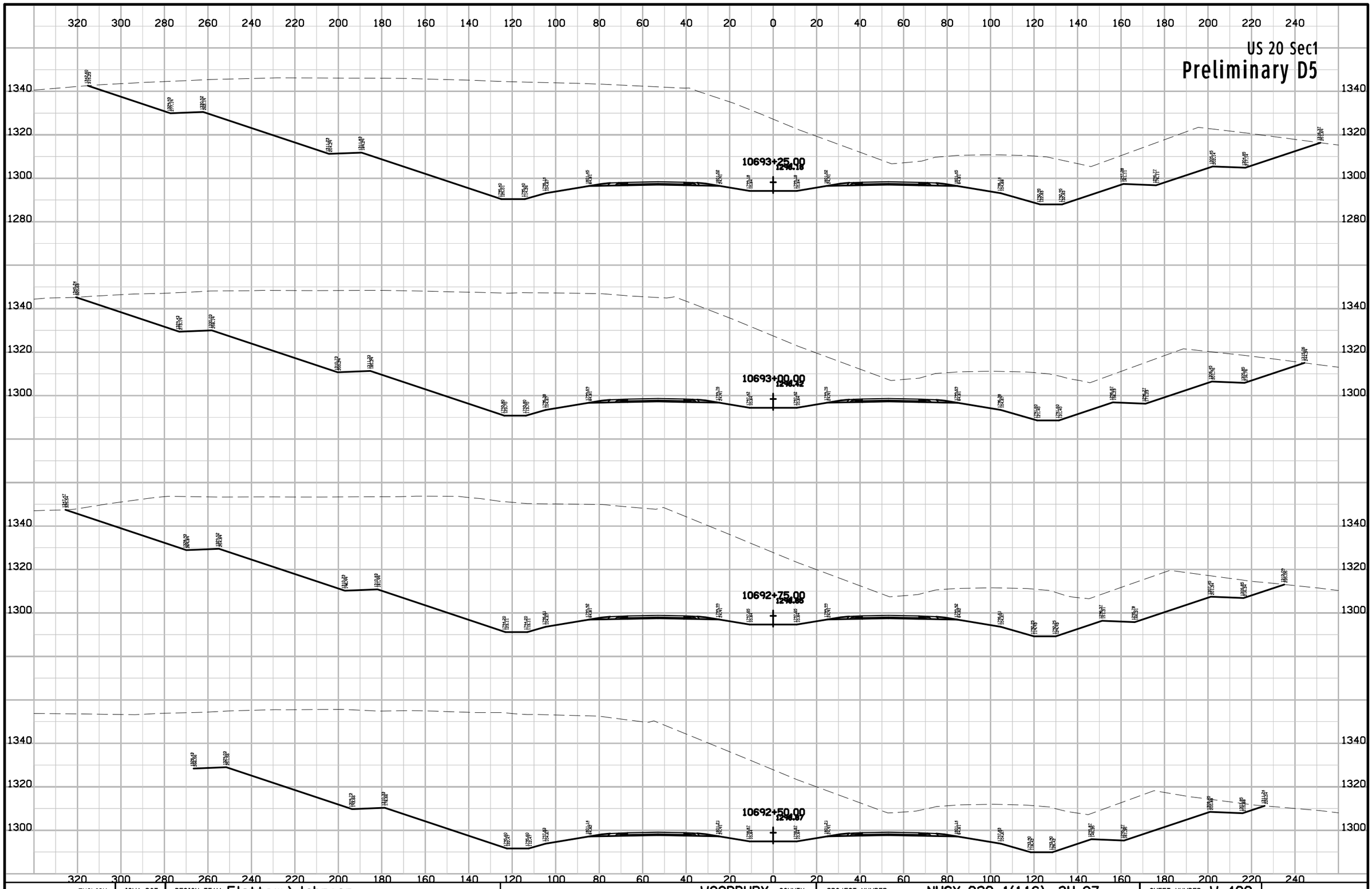
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.400

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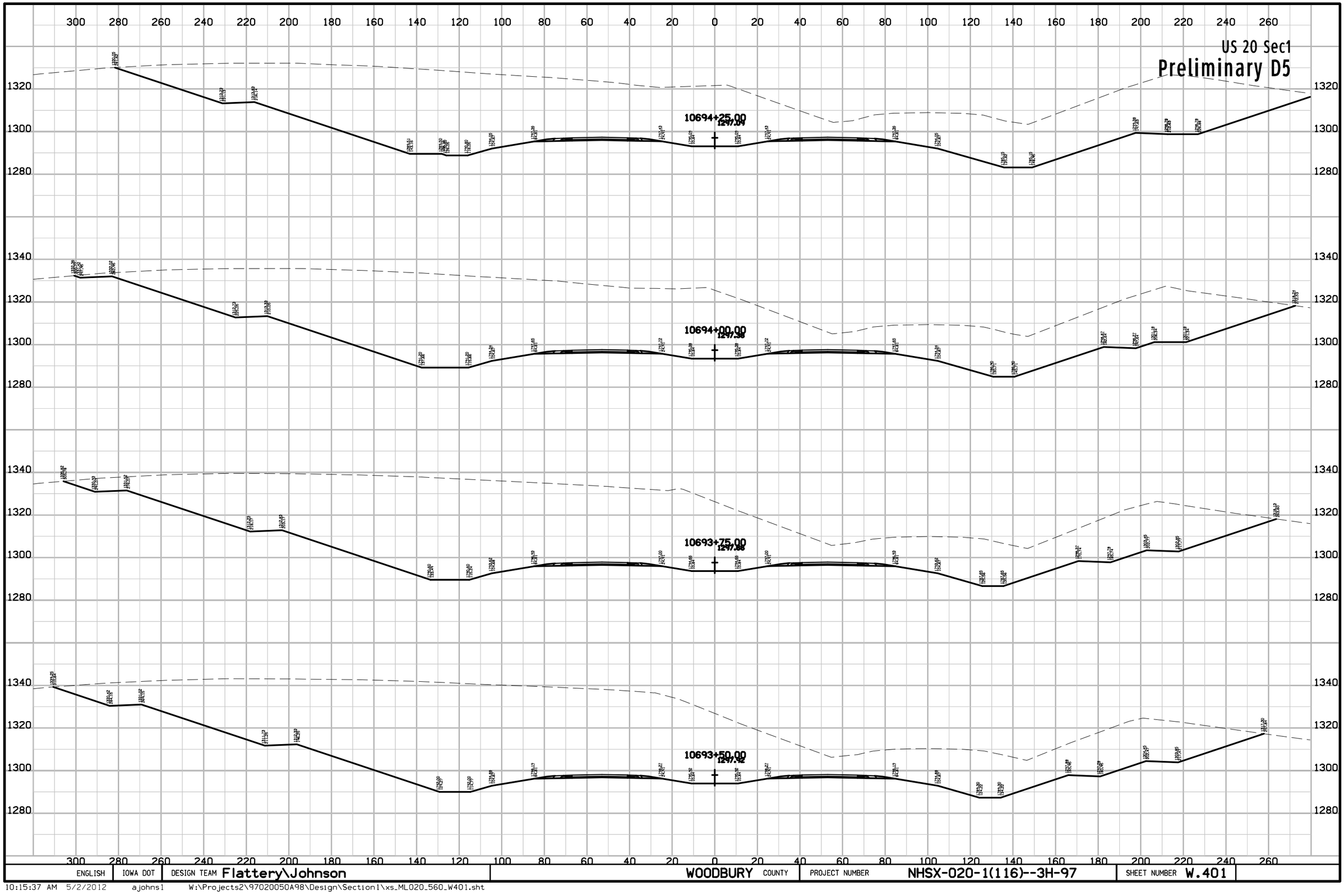
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.401

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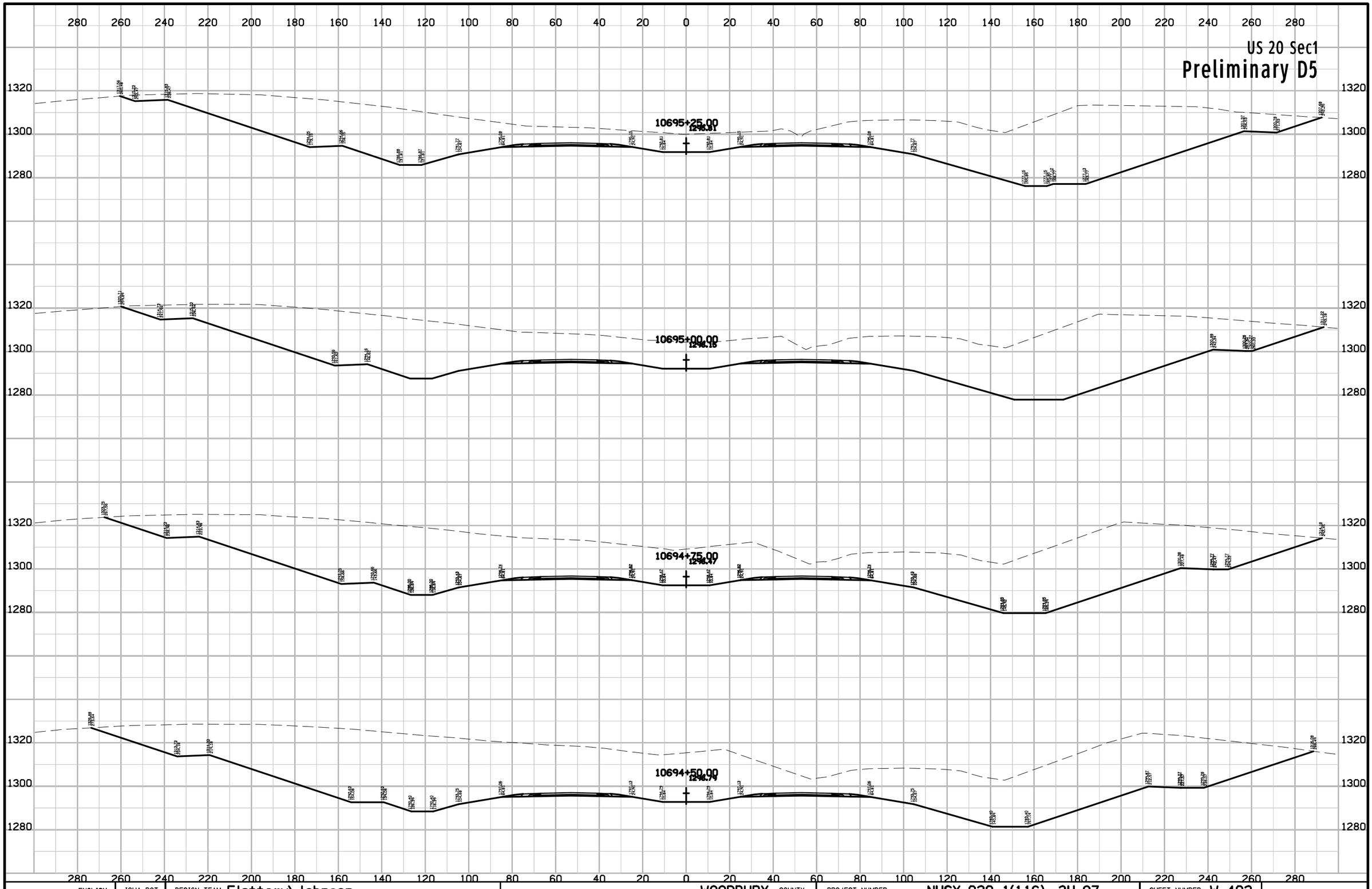
US 20 Sec1

Preliminary D5



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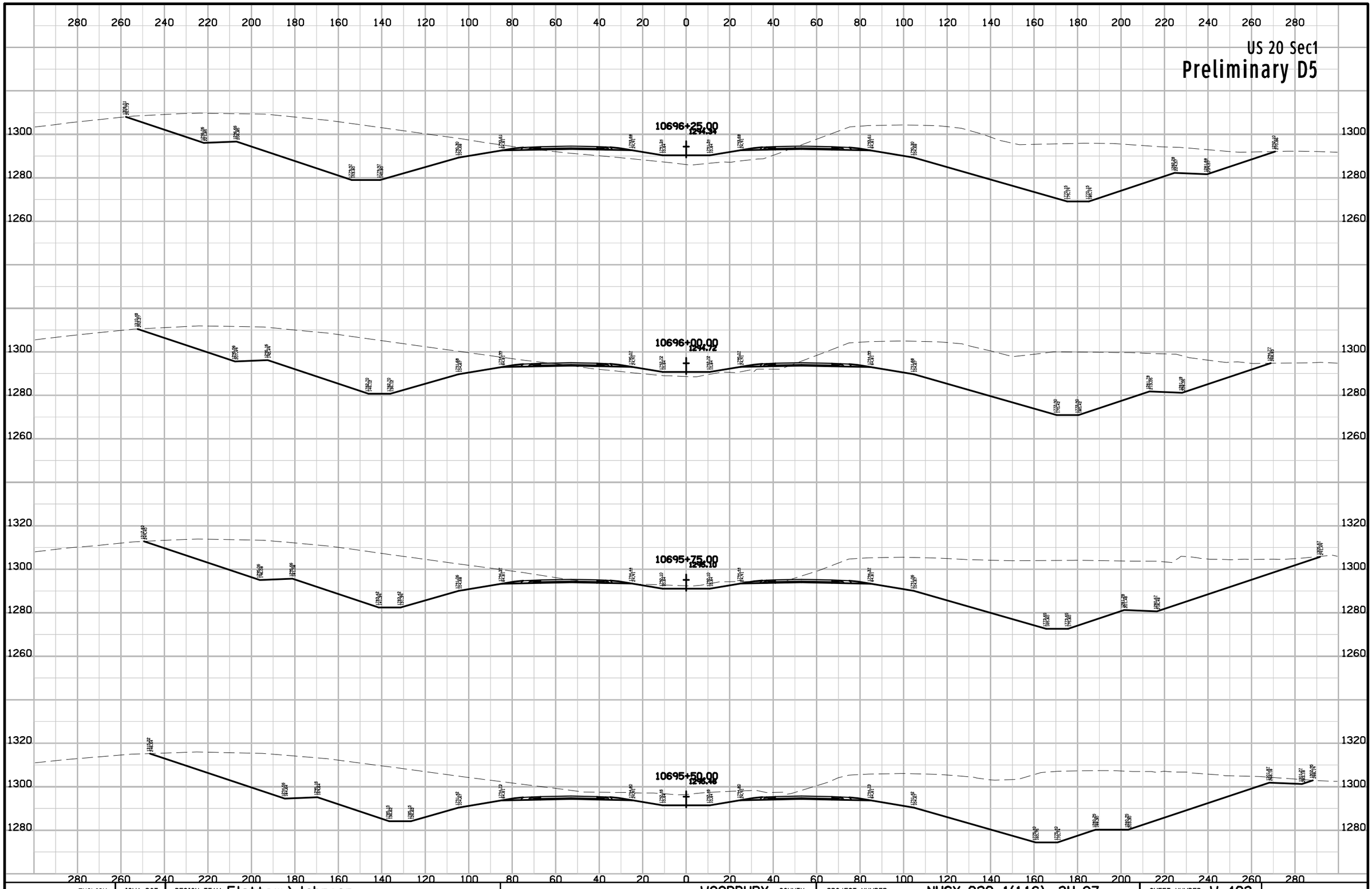
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.403

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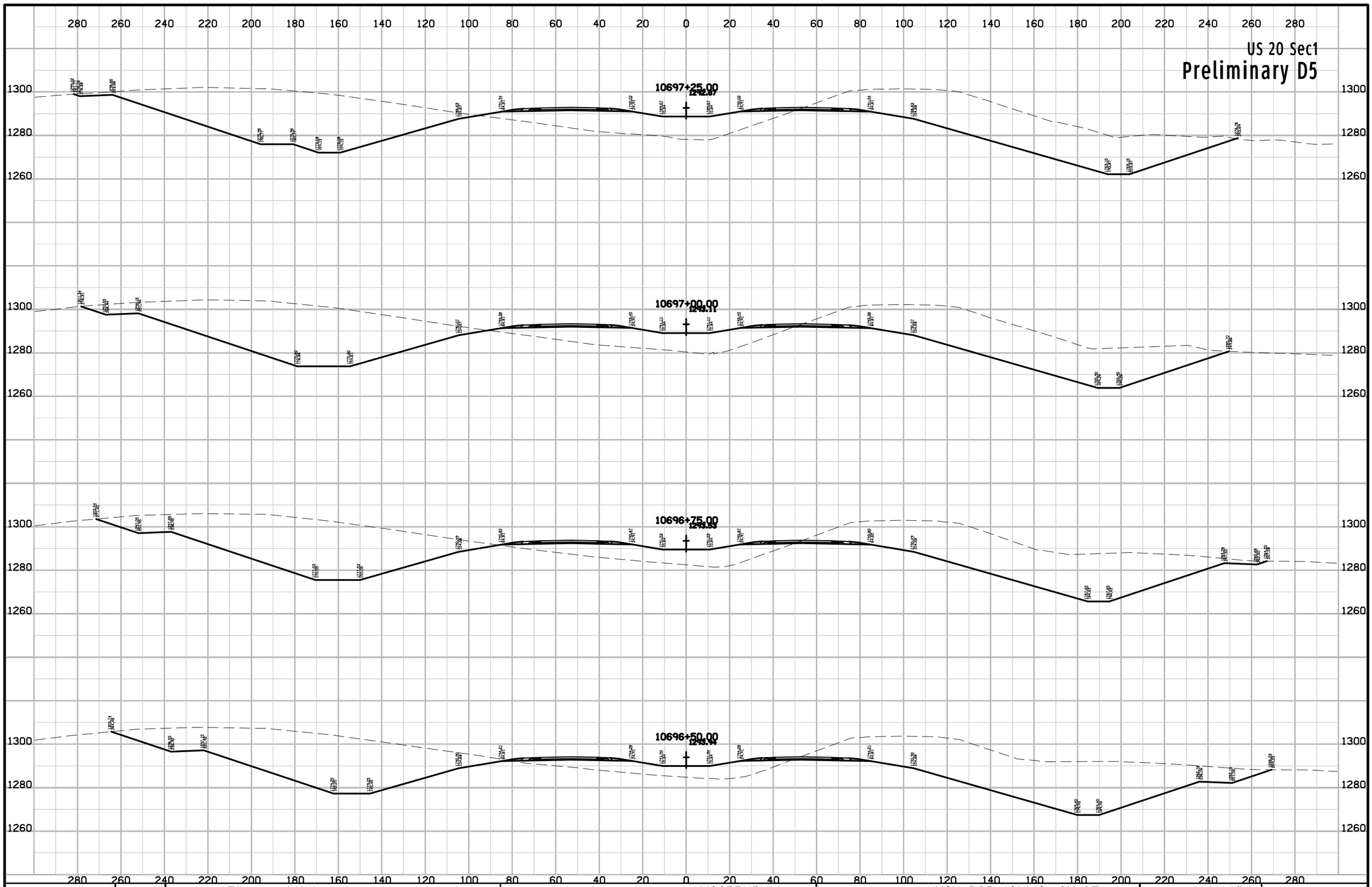
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.404

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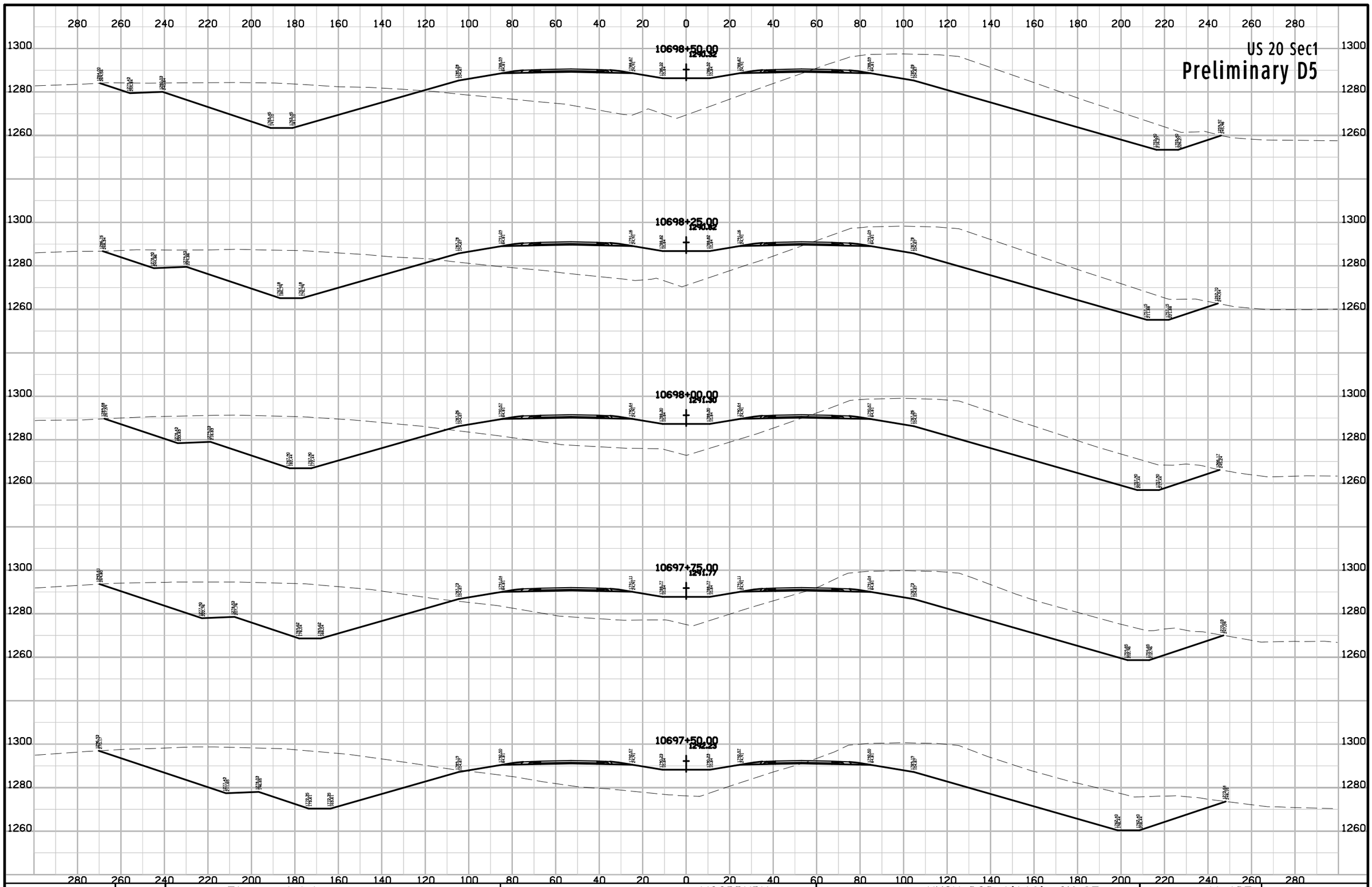
US 20 Sec1

Preliminary D5



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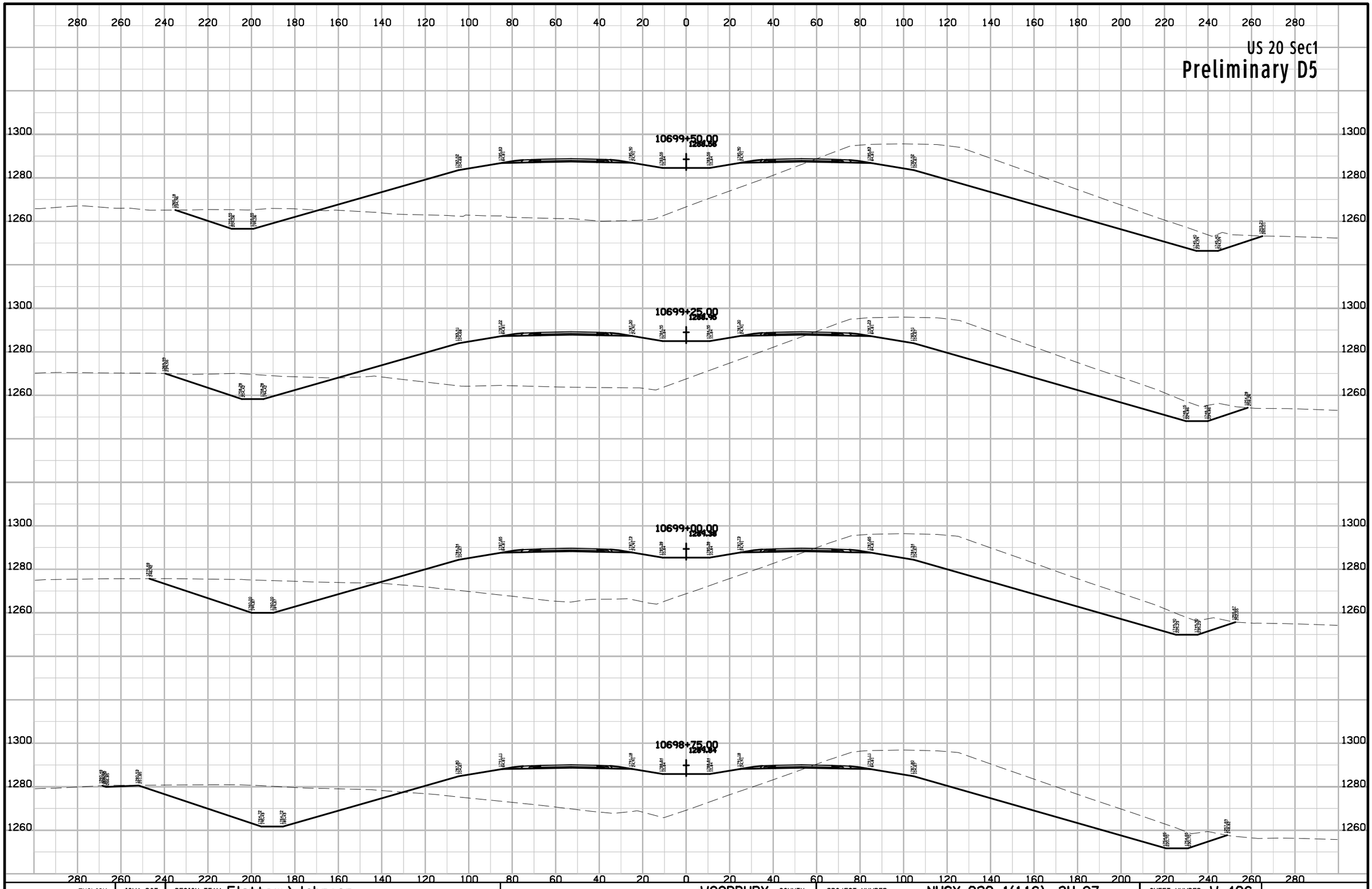
US 20 Sec1

Preliminary D5



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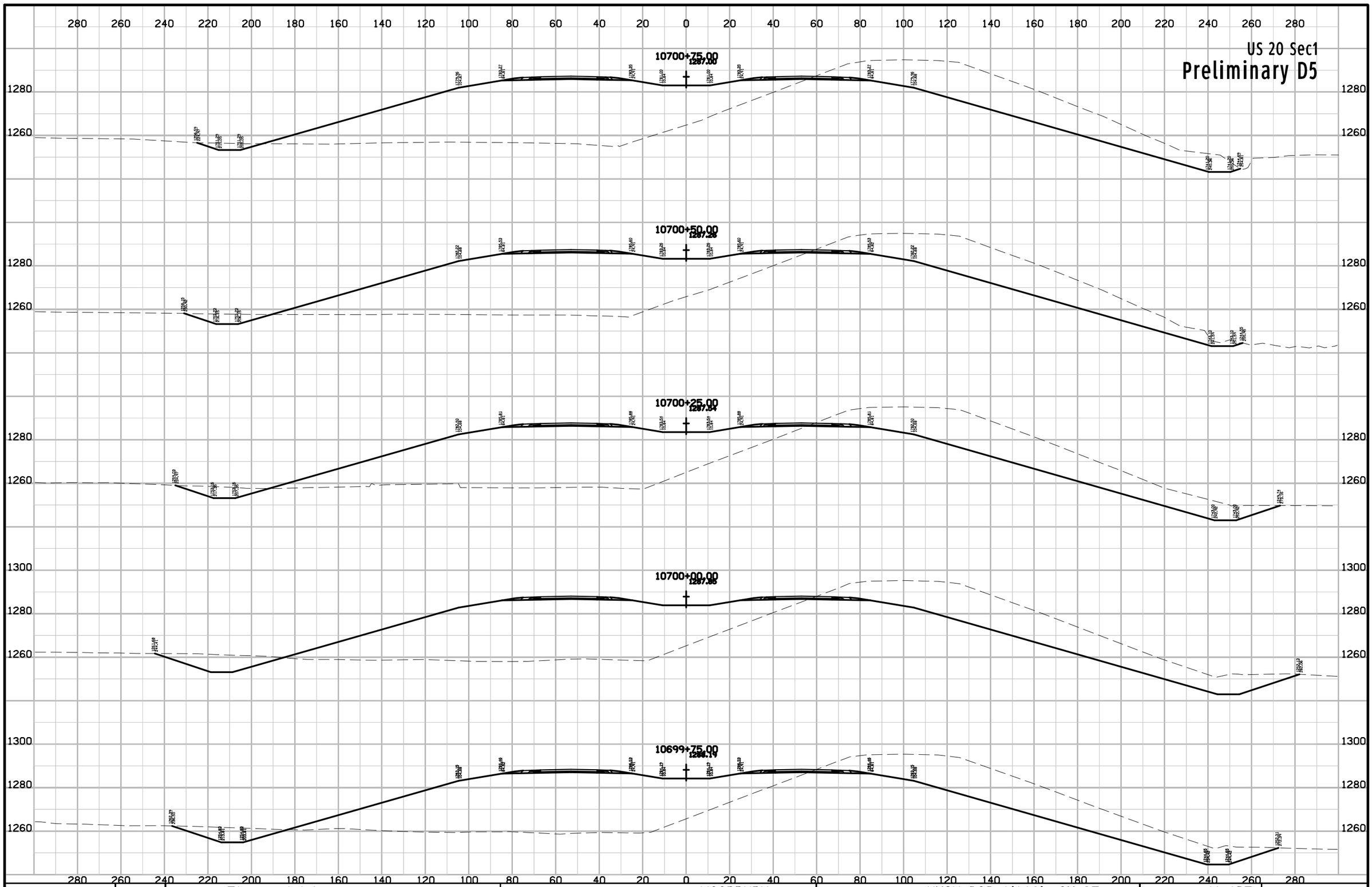
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.407

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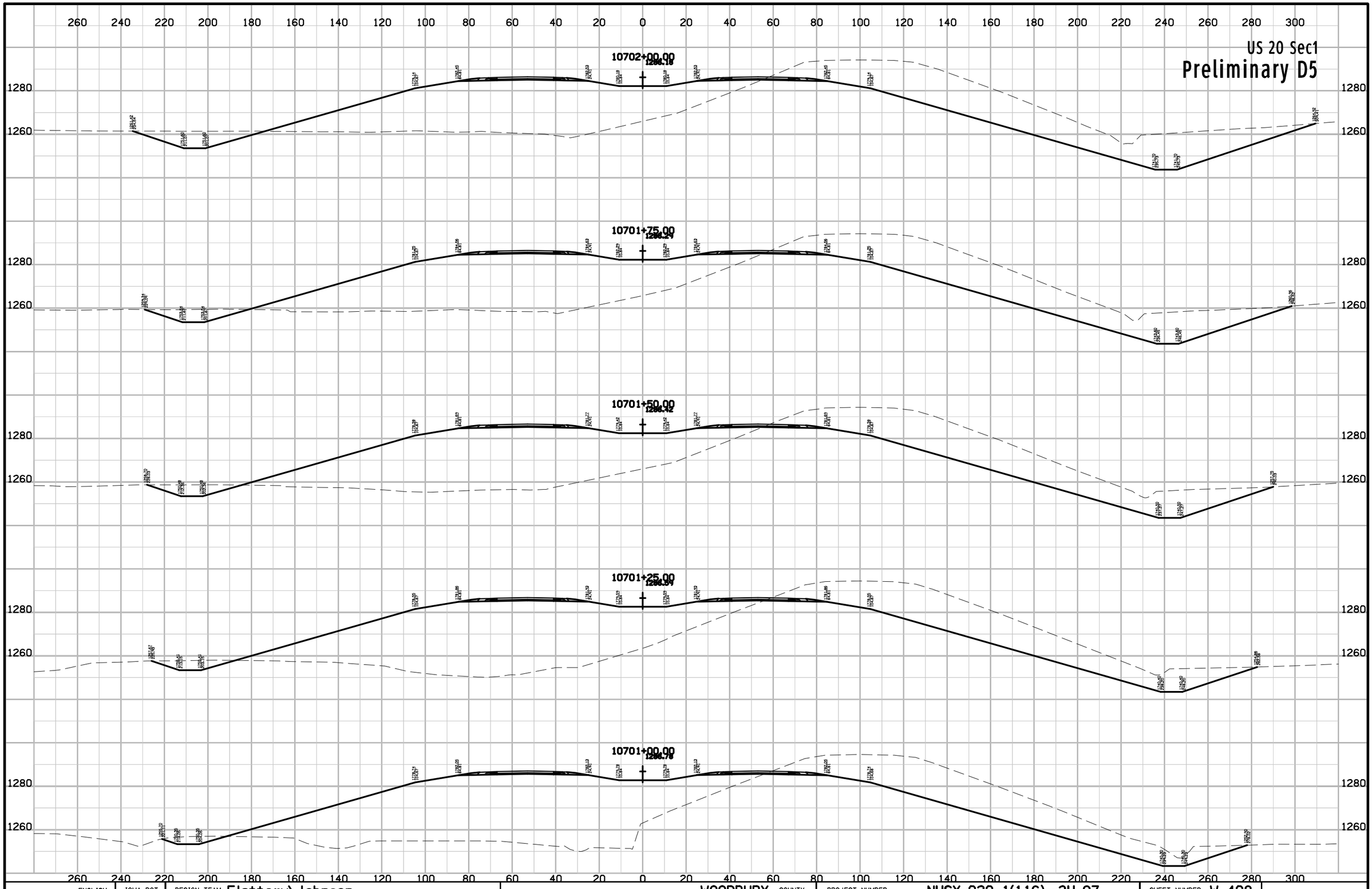
US 20 Sec1

Preliminary D5



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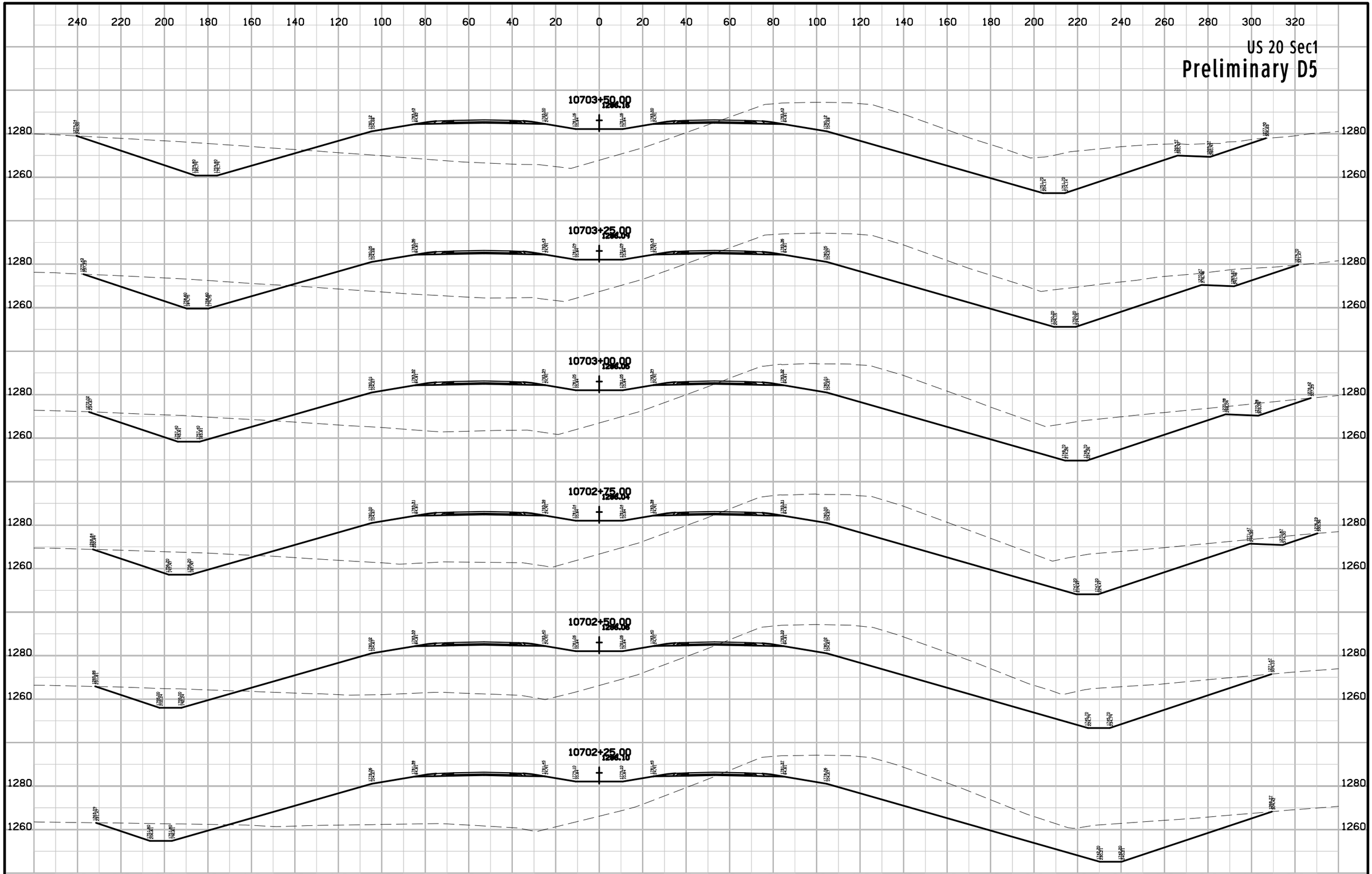
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.409

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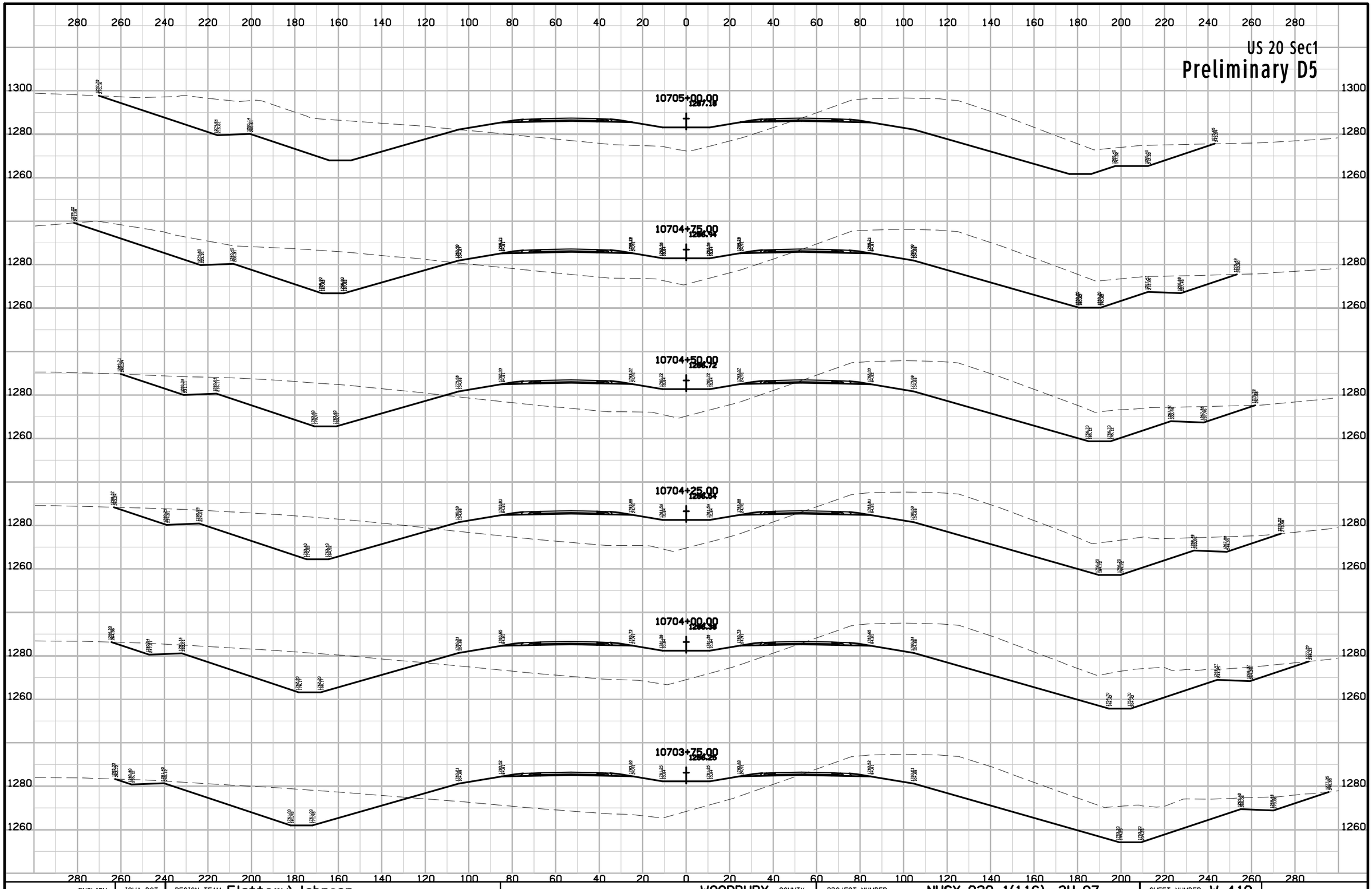
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.410

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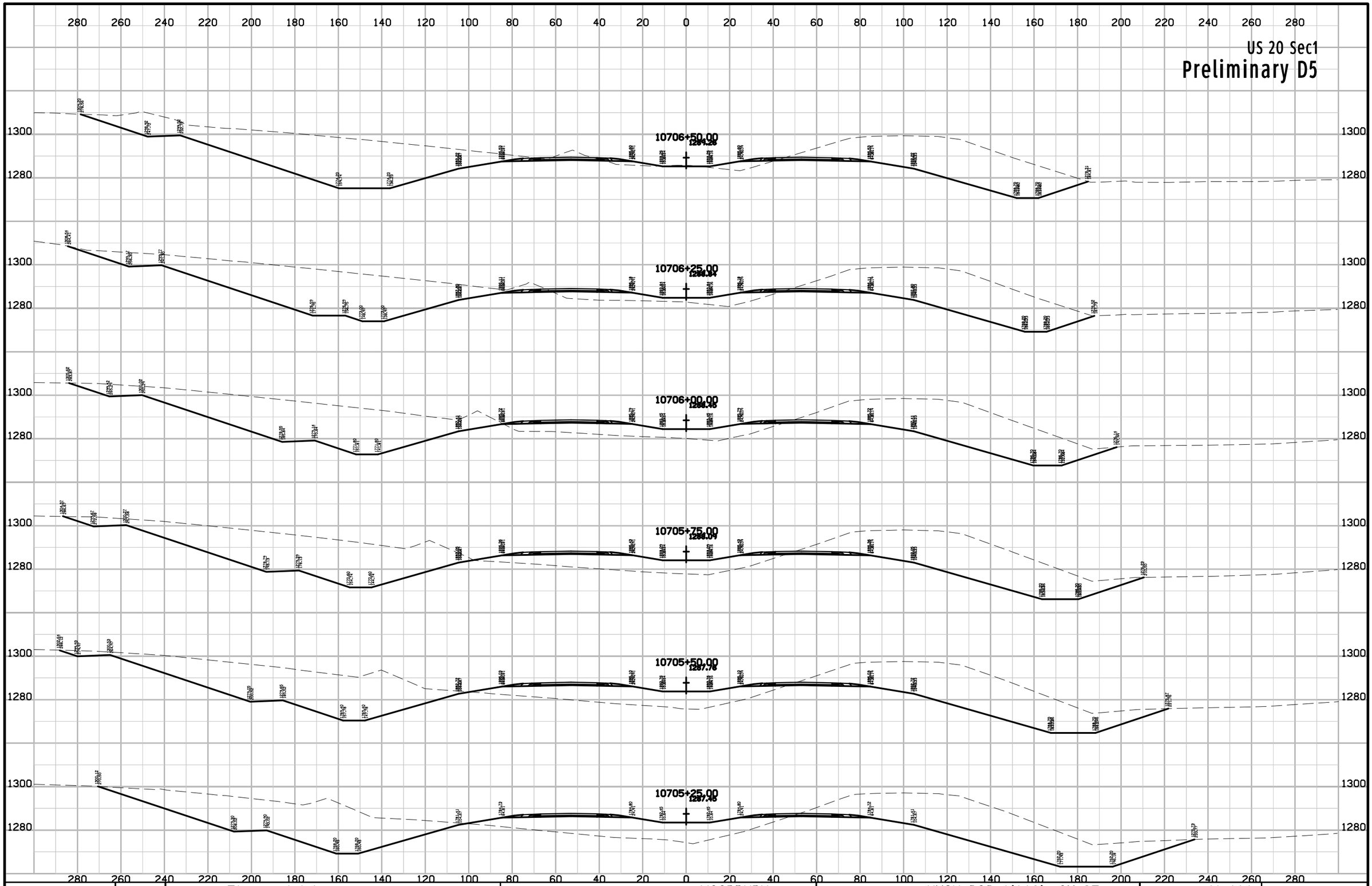
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.411

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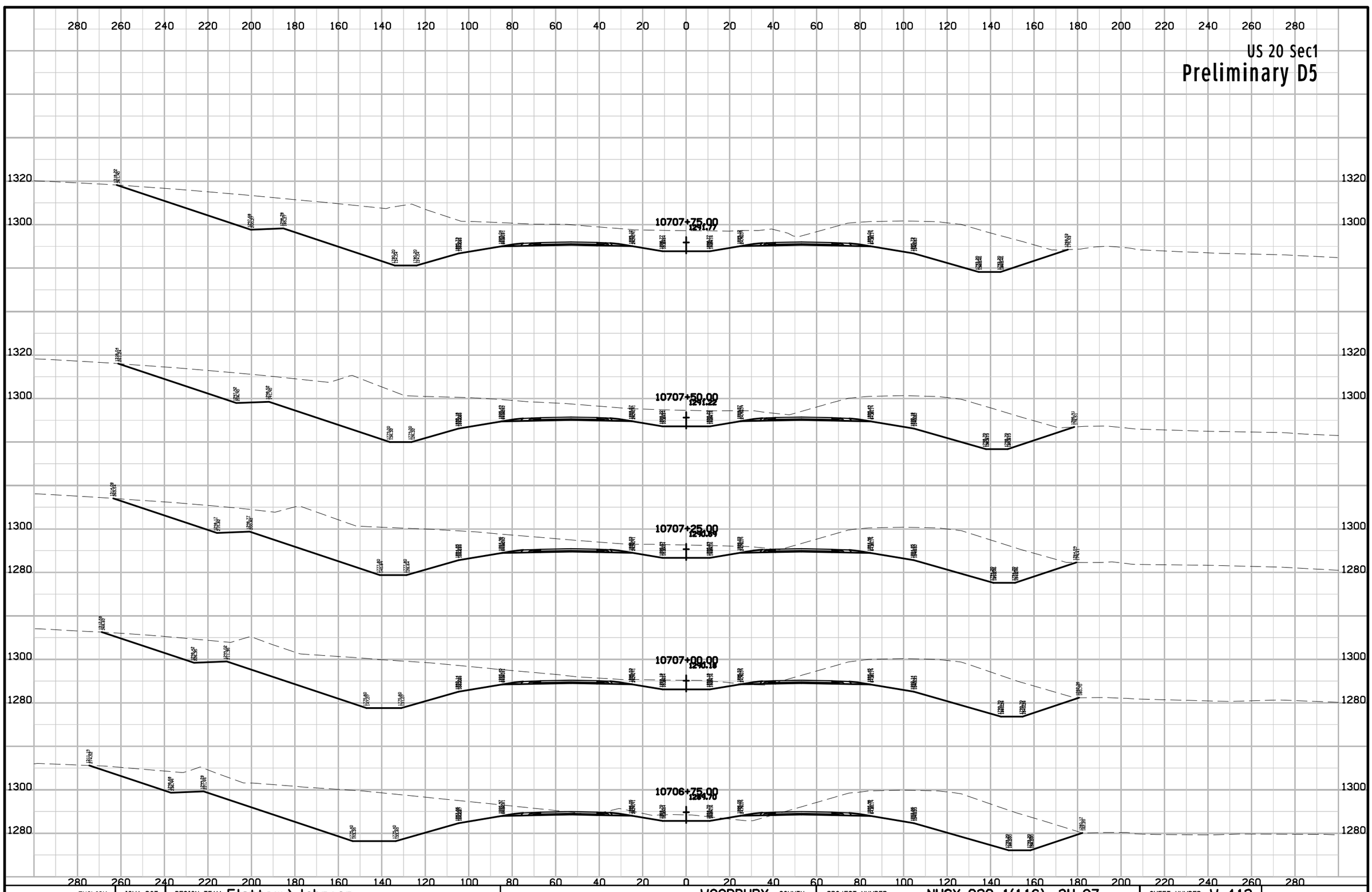
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.412

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1320
1300

10709+00.00
1244.62

10708+75.00
1243.17

10708+50.00
1243.42

10708+25.00
1242.97

10708+00.00
1242.32

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.413

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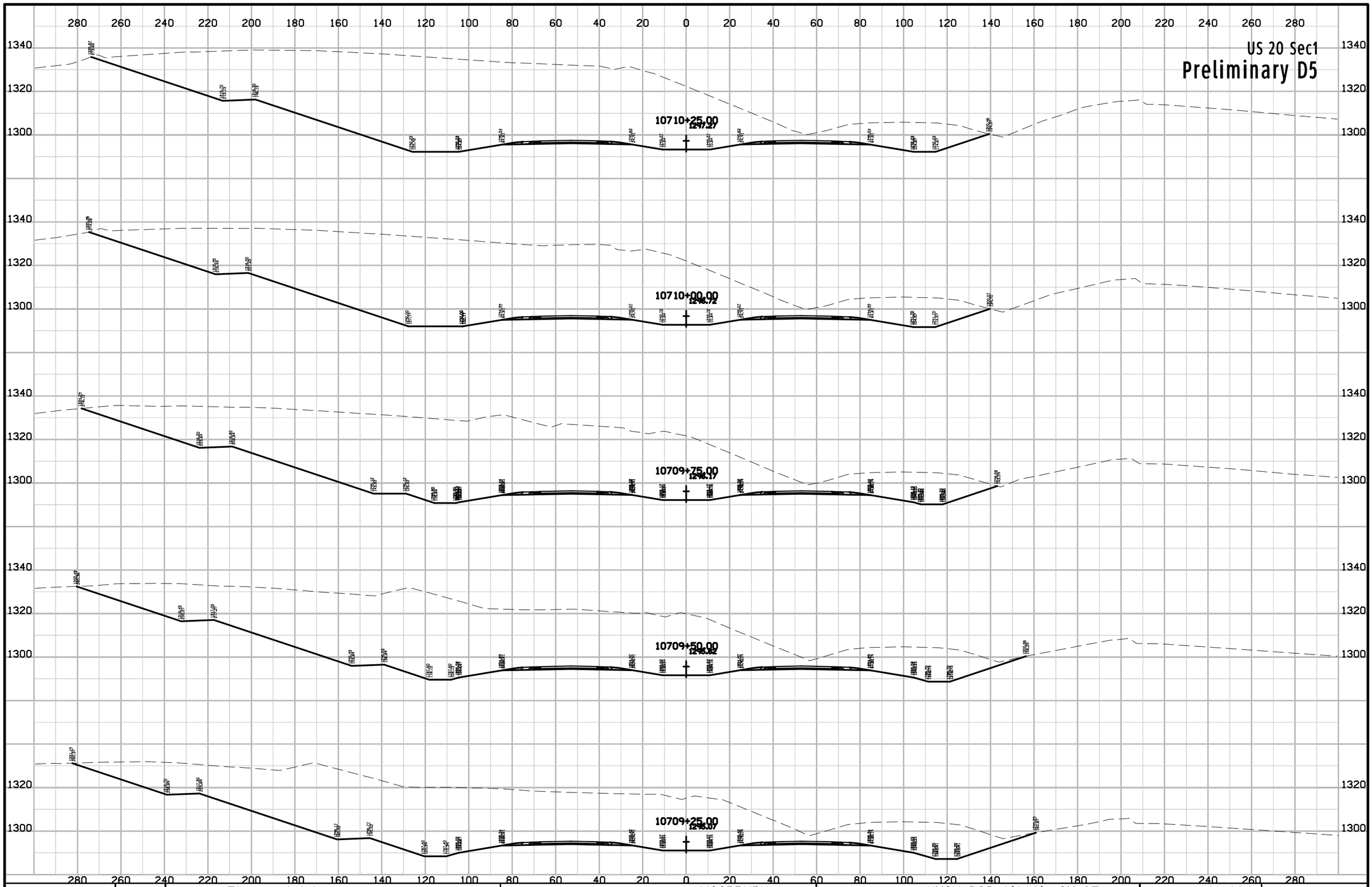
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.414

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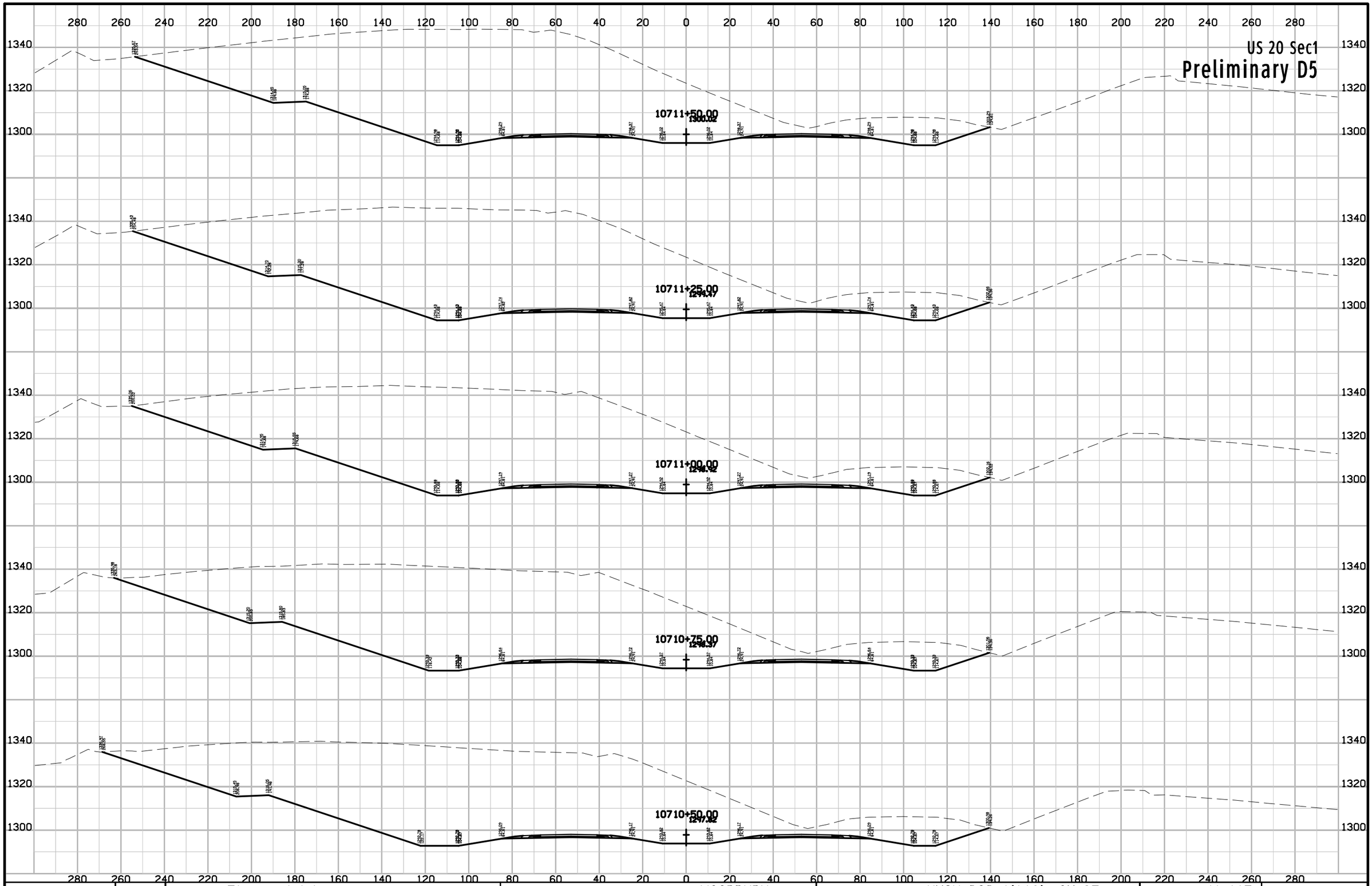
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.415

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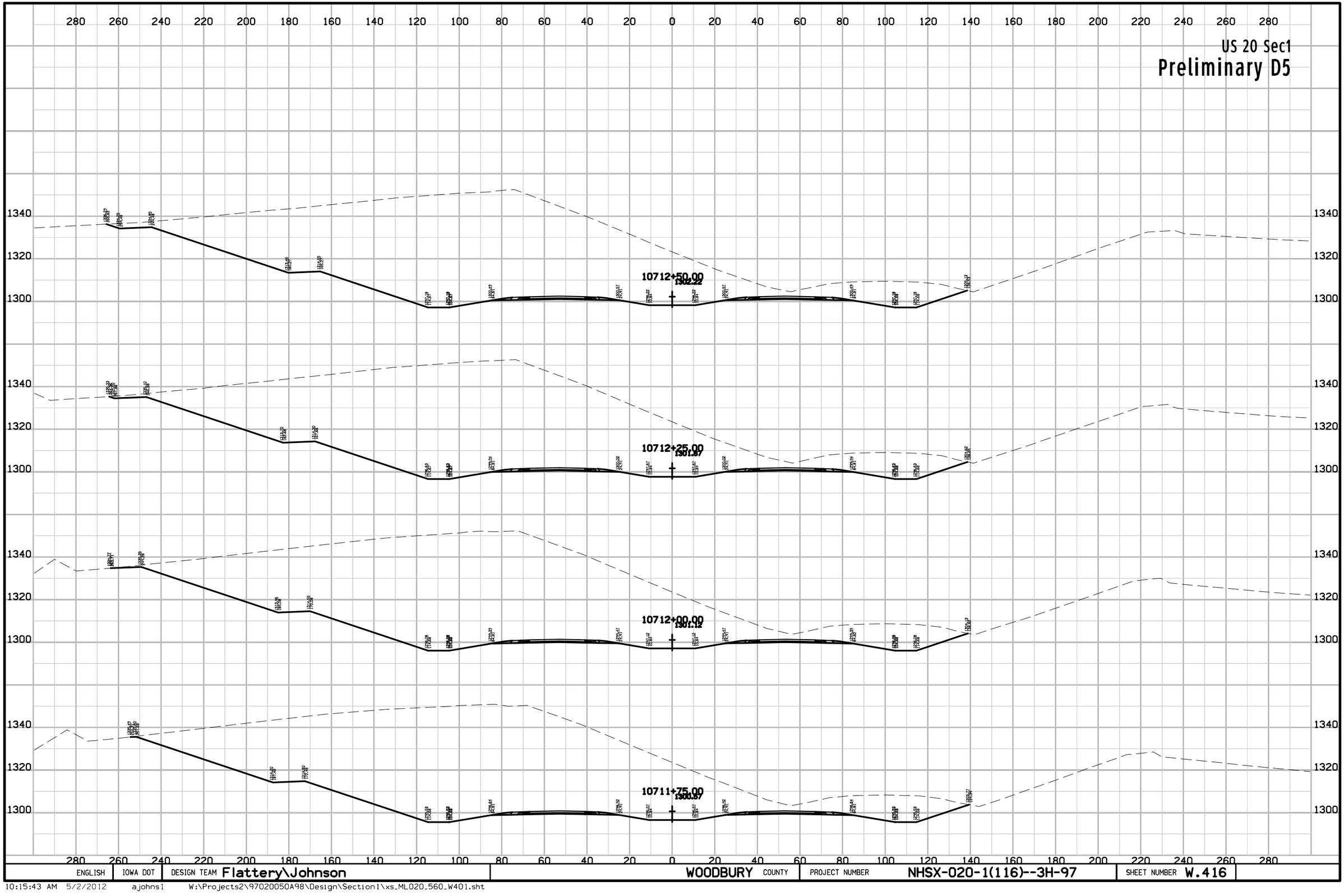
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.416

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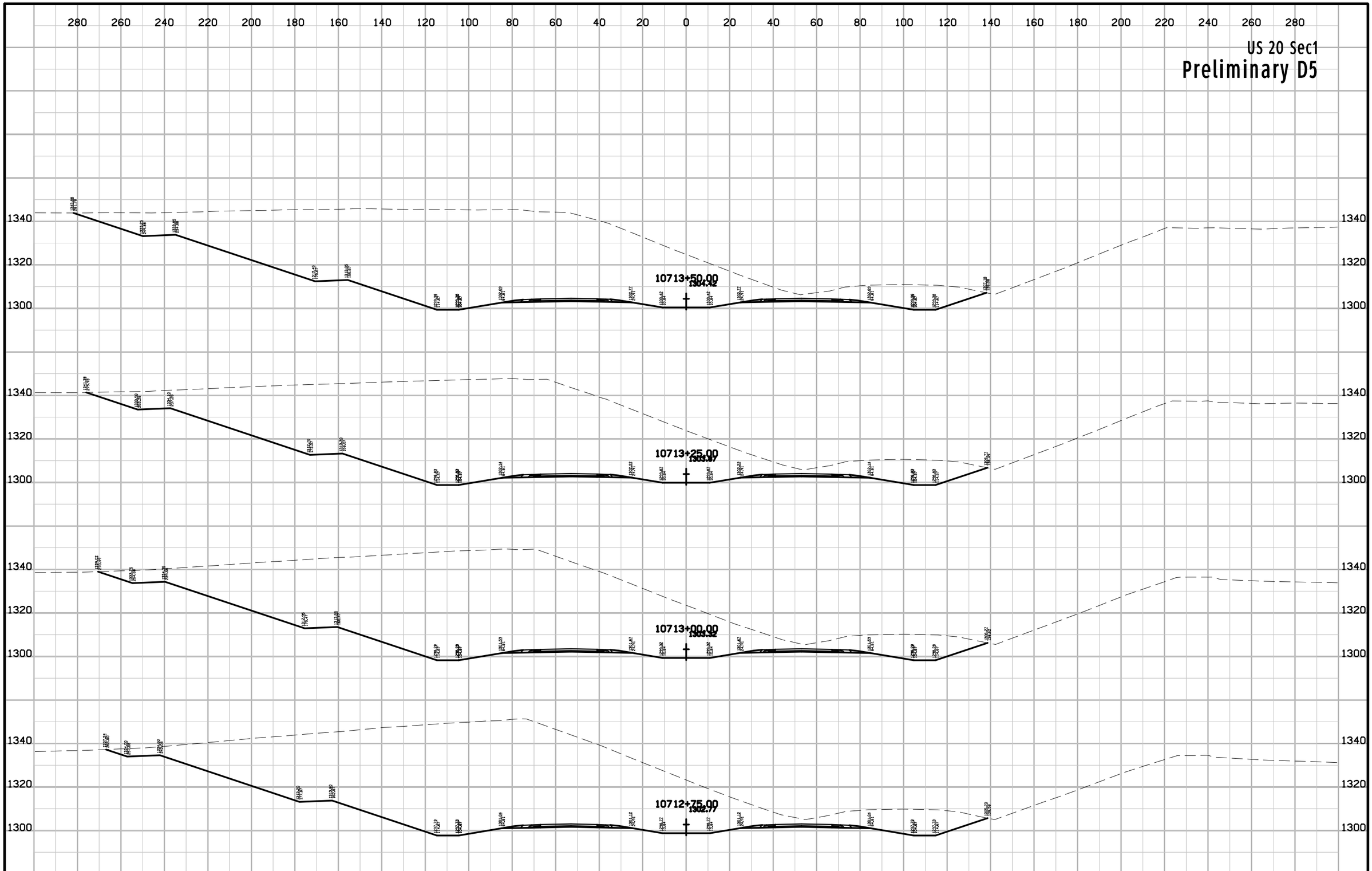
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.417

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US 20 Sec1

Preliminary D5

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1340
1320

10714+50.00
1306.82

1340
1320

10714+25.00
1306.07

1340
1320

10714+00.00
1305.92

1340
1320
1300

10713+75.00
1304.97

320 300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.418

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US 20 Sec1

Preliminary D5

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1360
1340
1320

10715+50.00
1306.42

10715+25.00
1306.27

10715+00.00
1307.72

10714+75.00
1307.17

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.419

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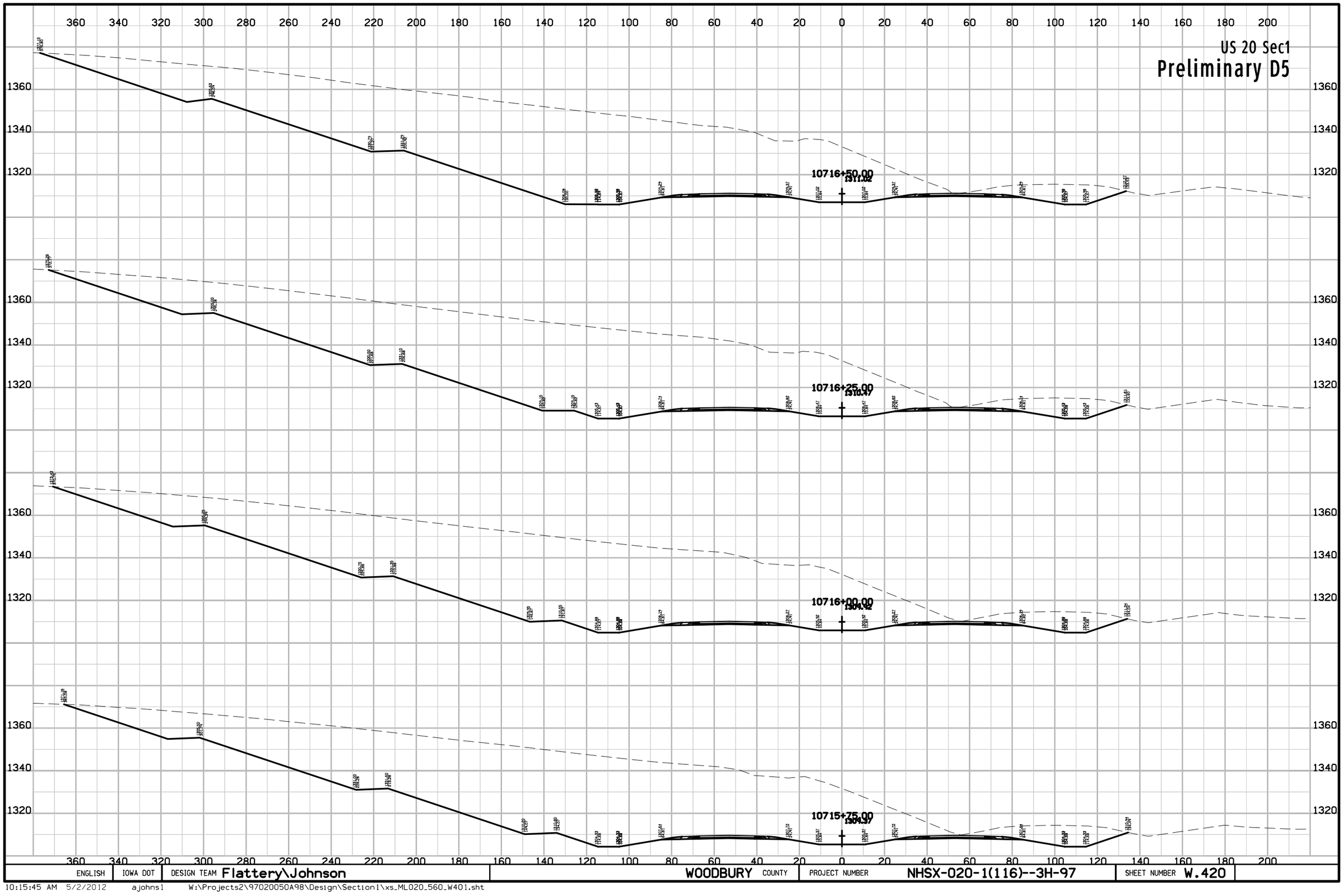
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.420

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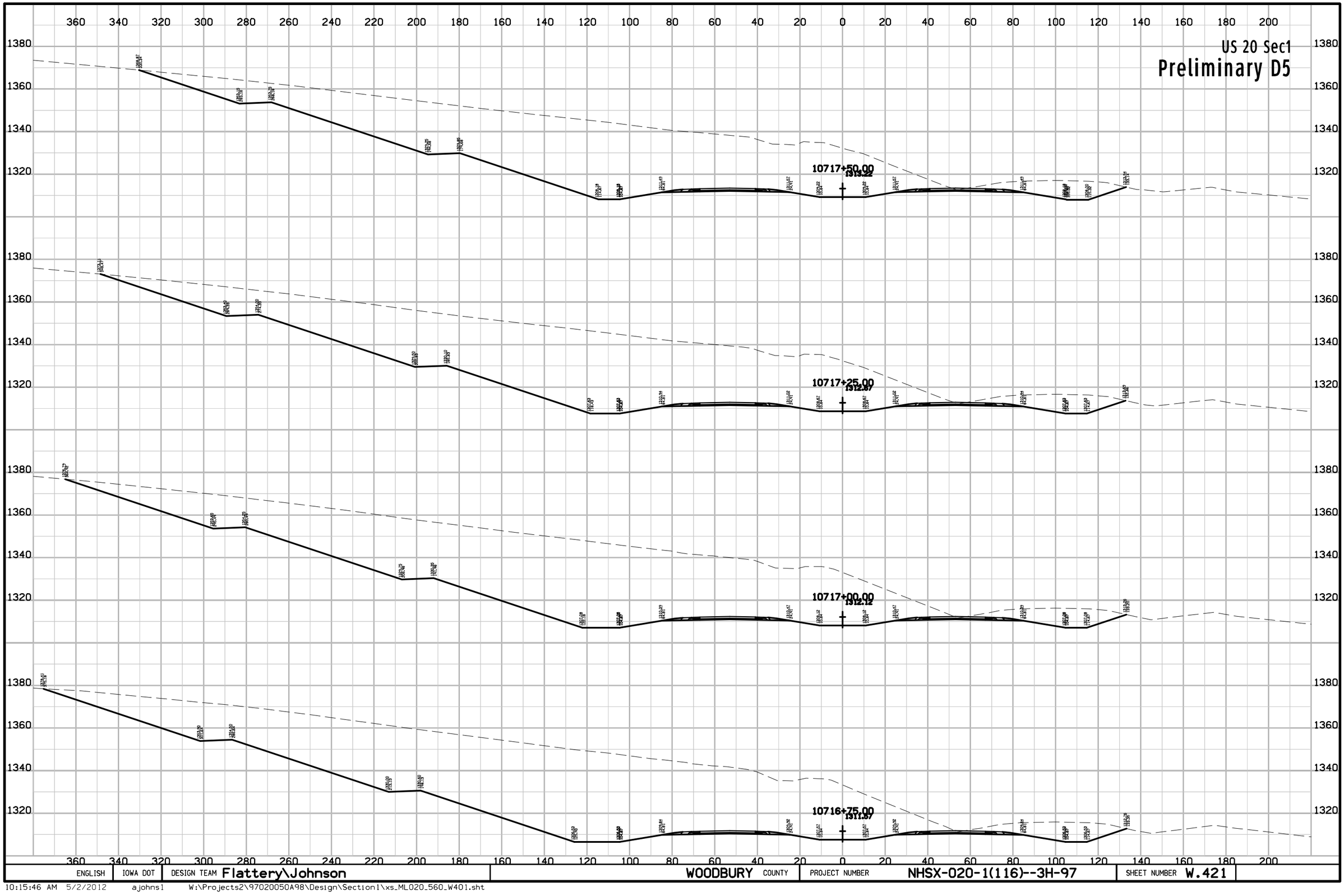
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.421

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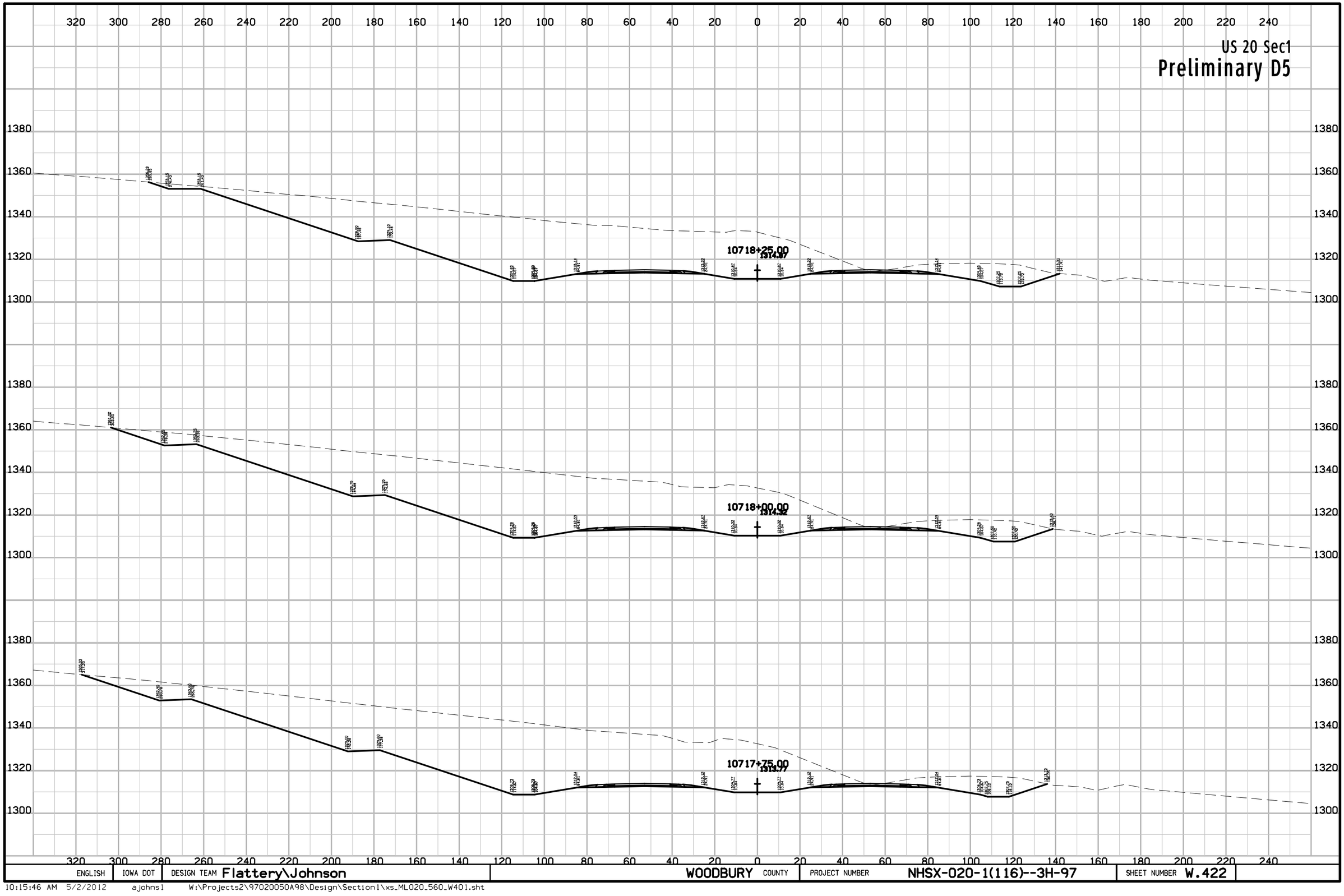
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.422

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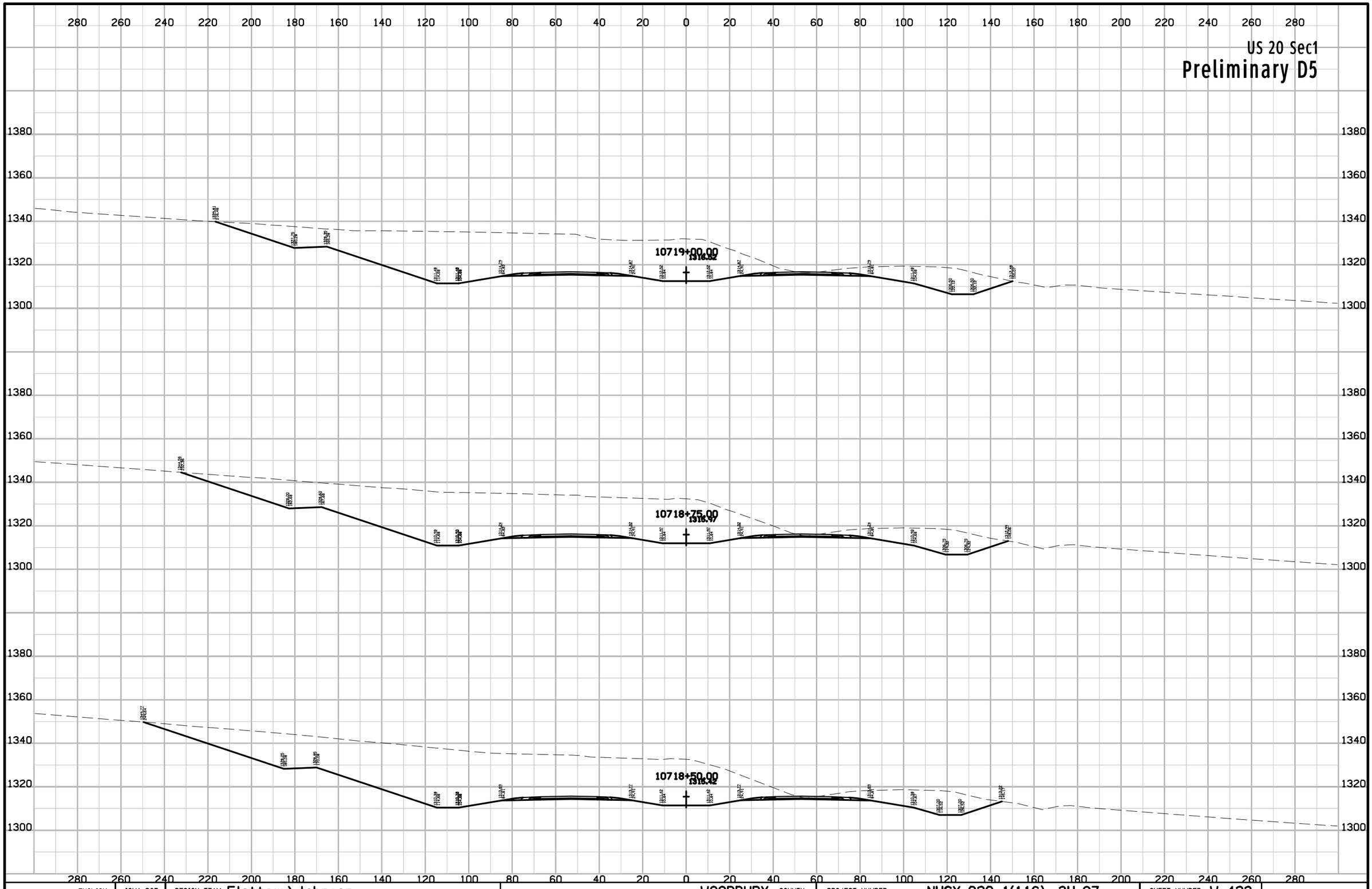
US 20 Sec1

Preliminary D5



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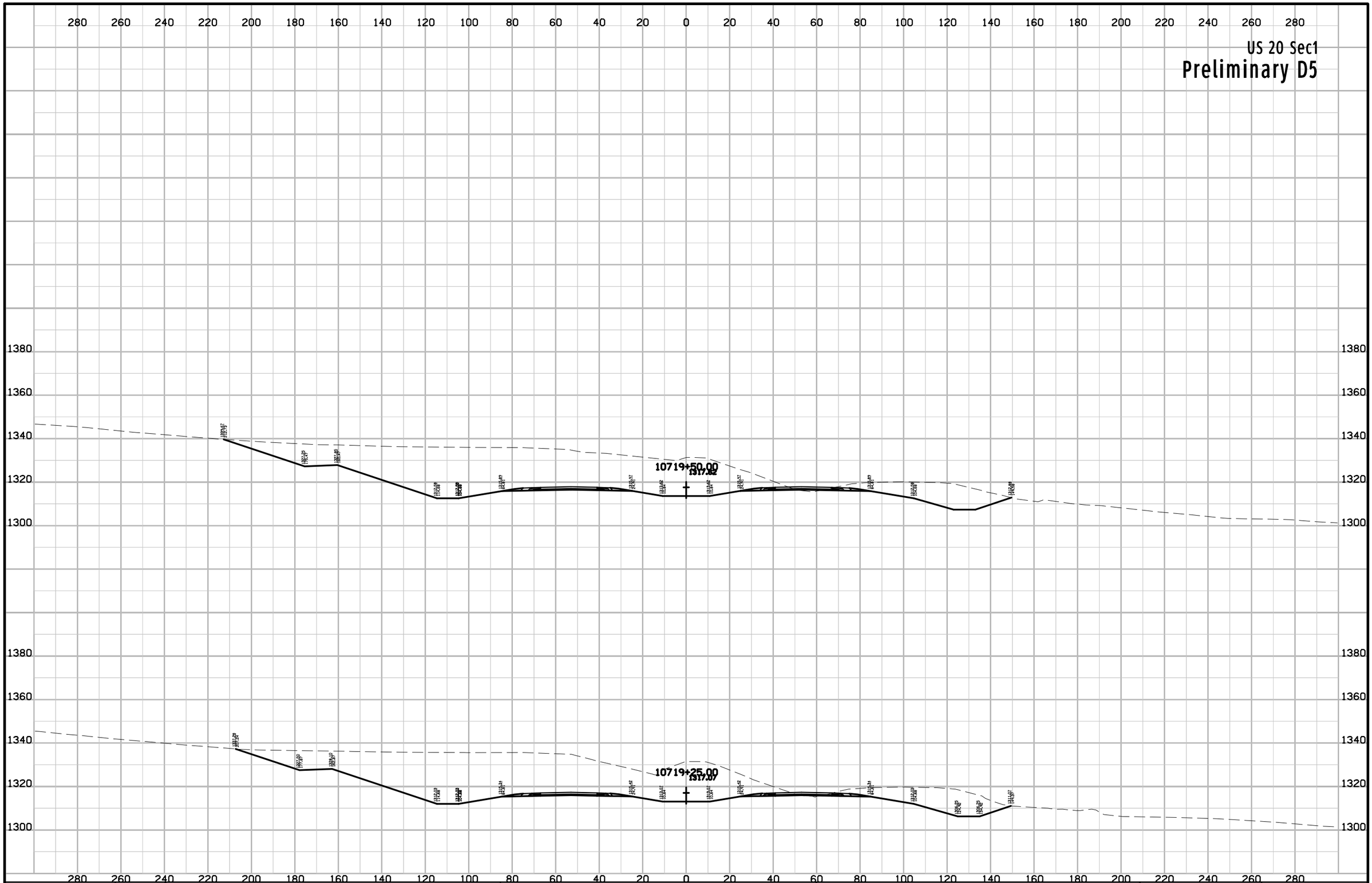
US 20 Sec1

Preliminary D5



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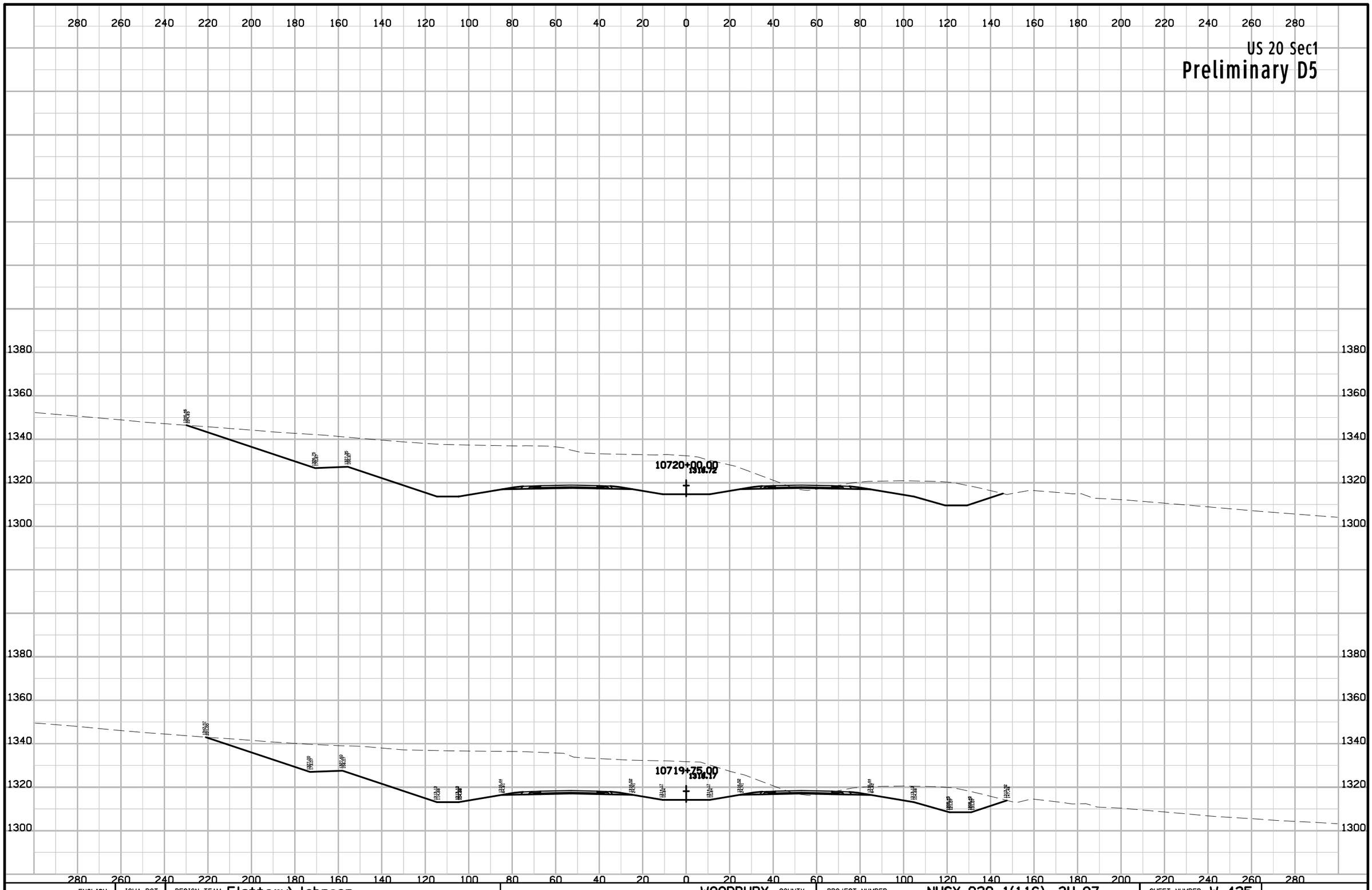
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.425

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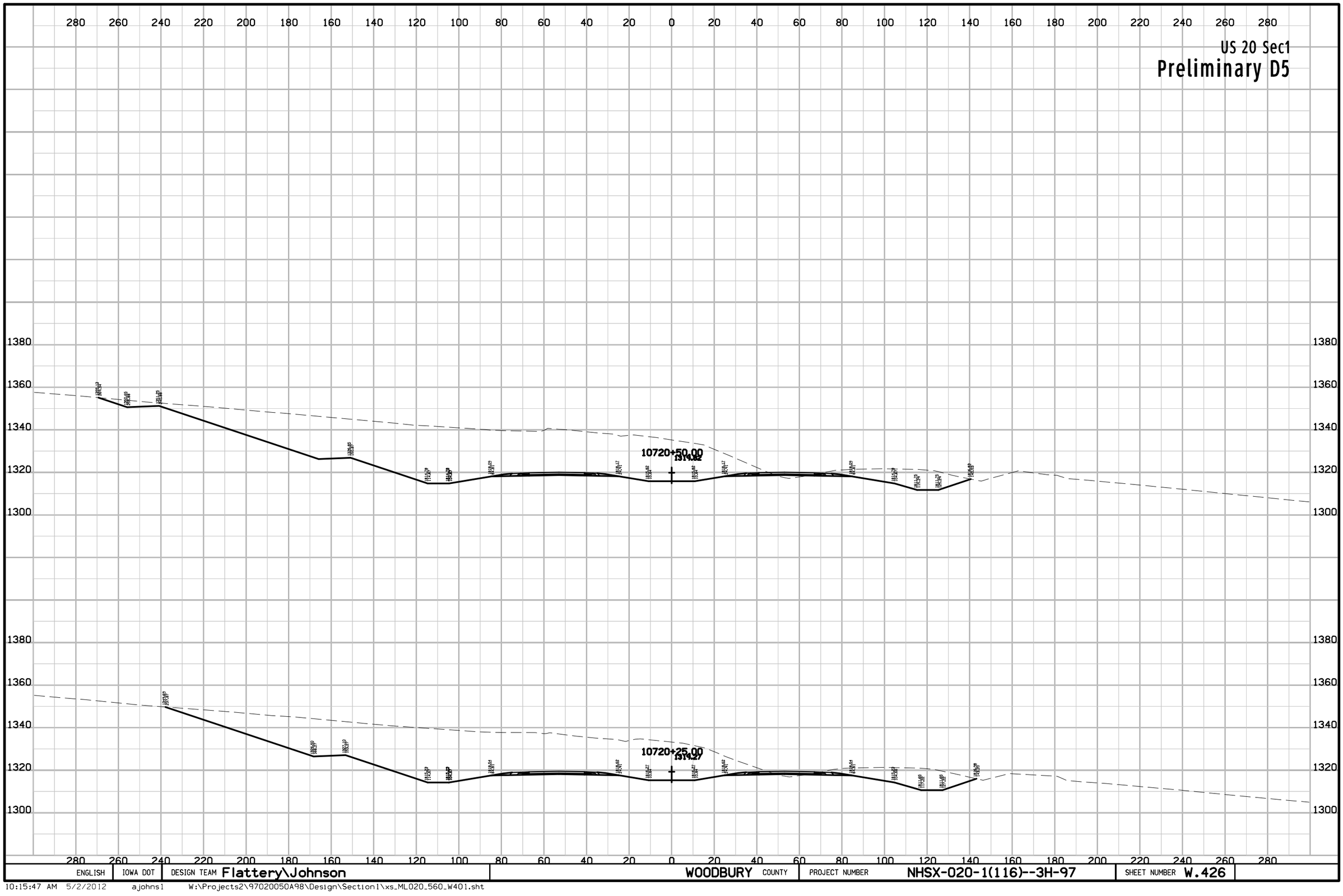
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.426

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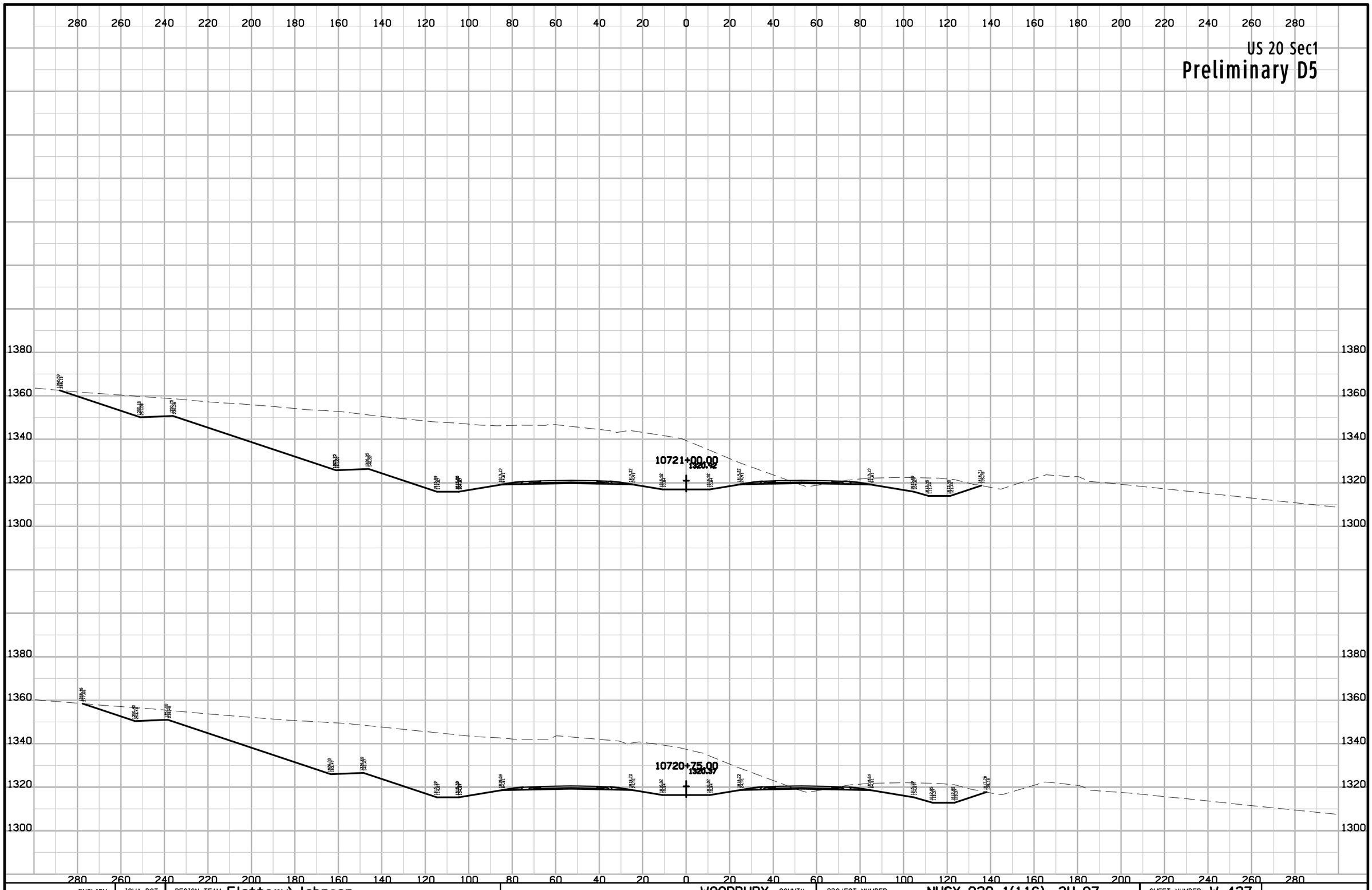
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.427

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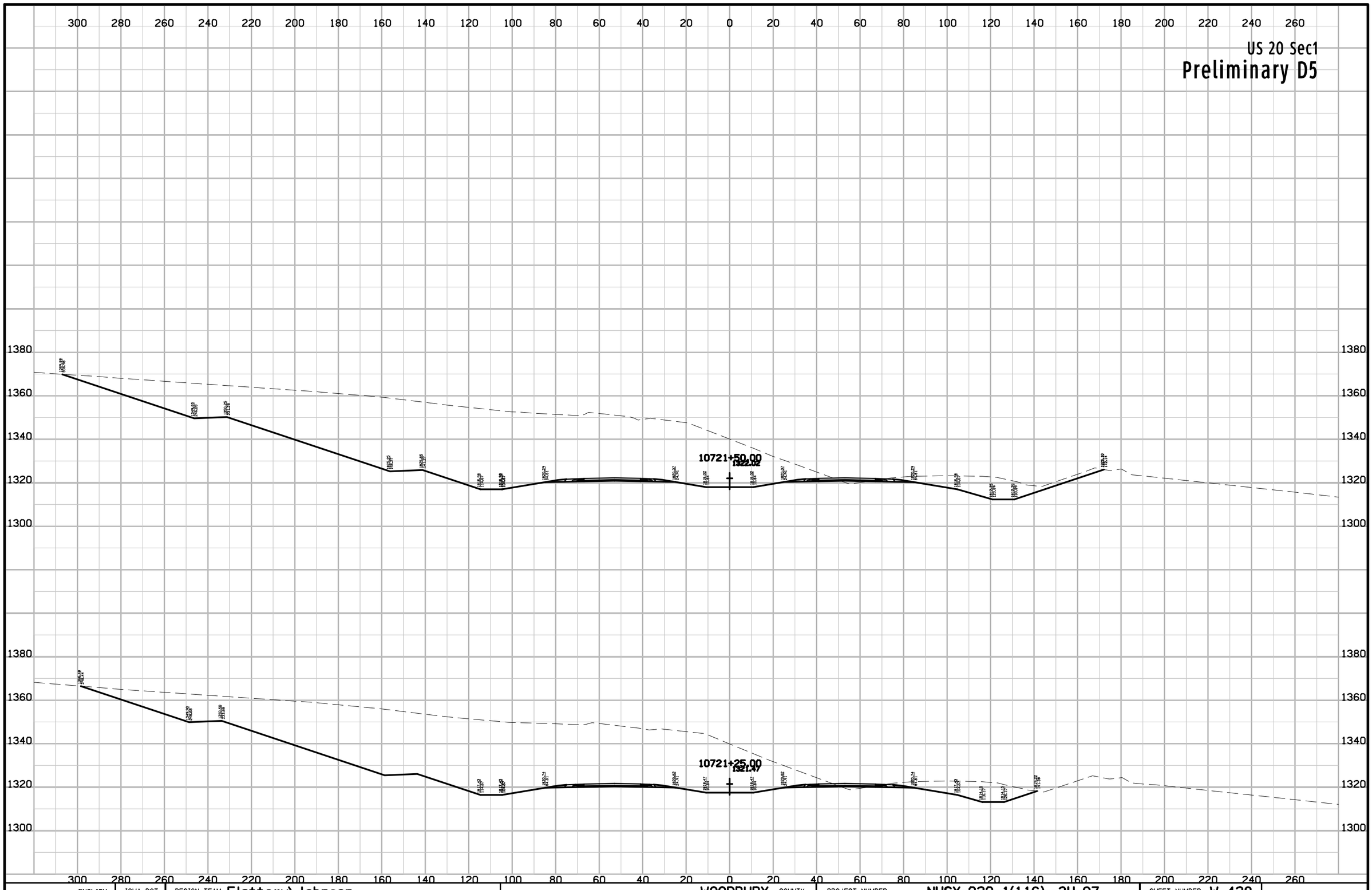
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.428

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US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.429

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US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.430

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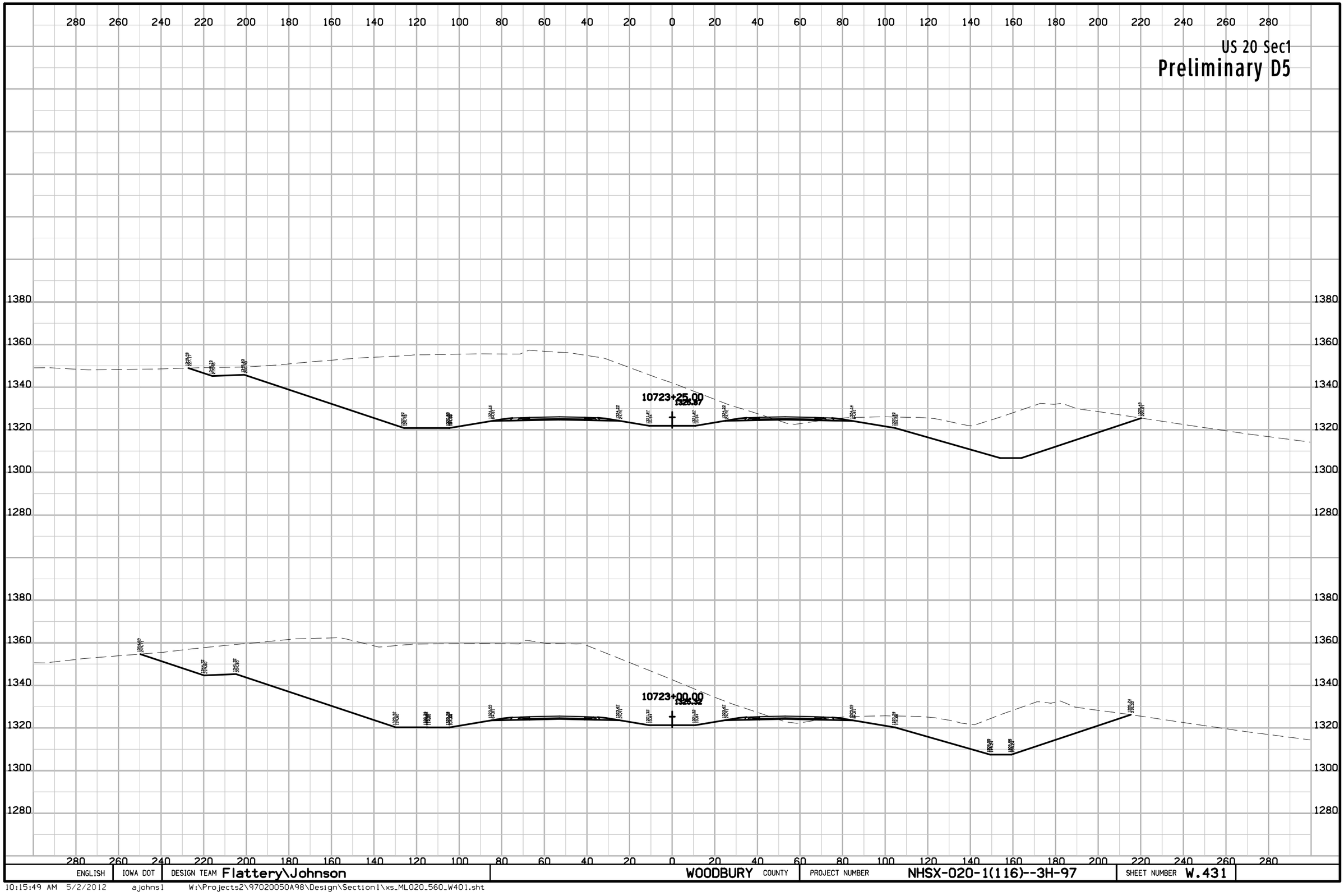
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.431

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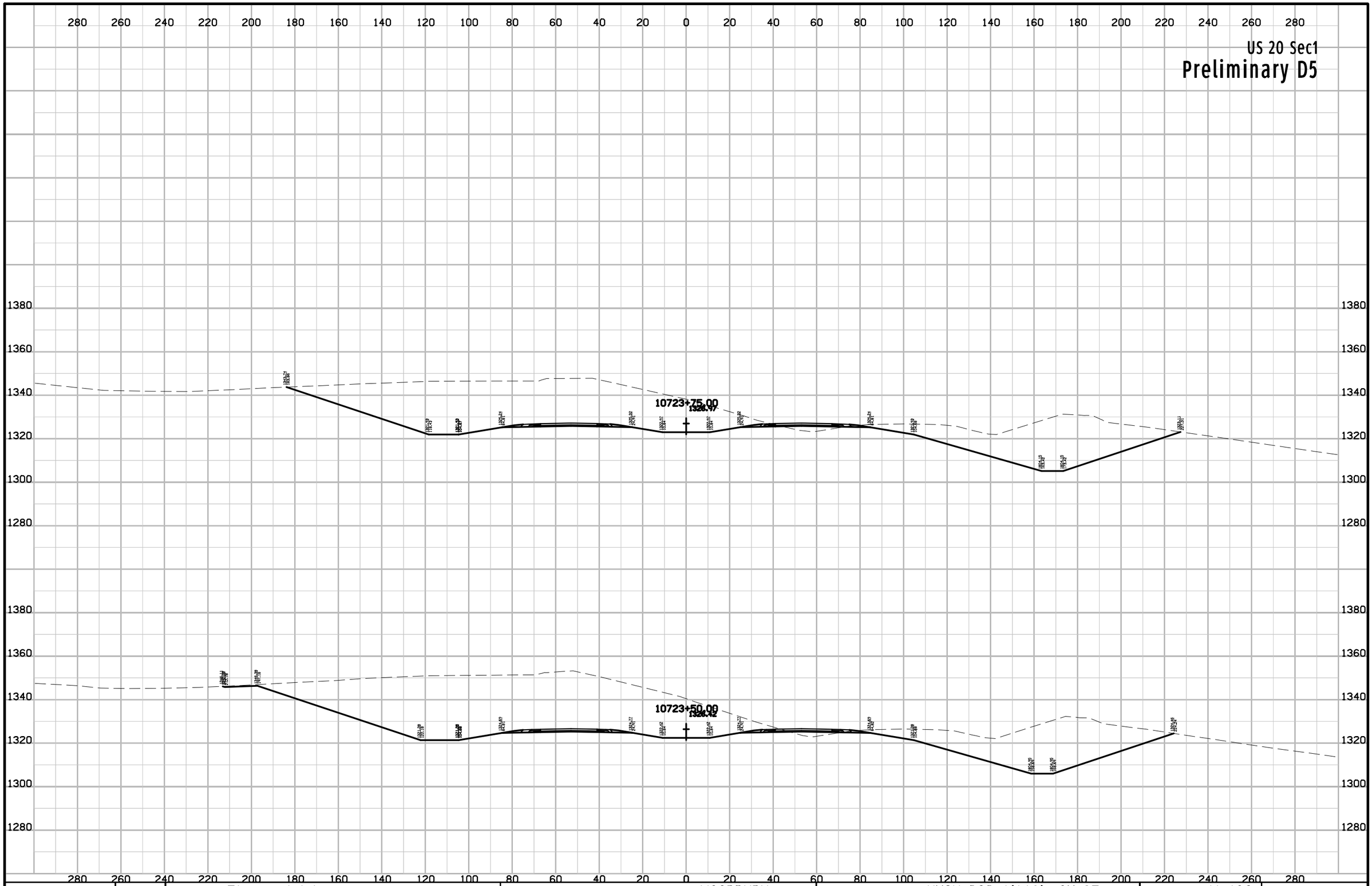
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.432

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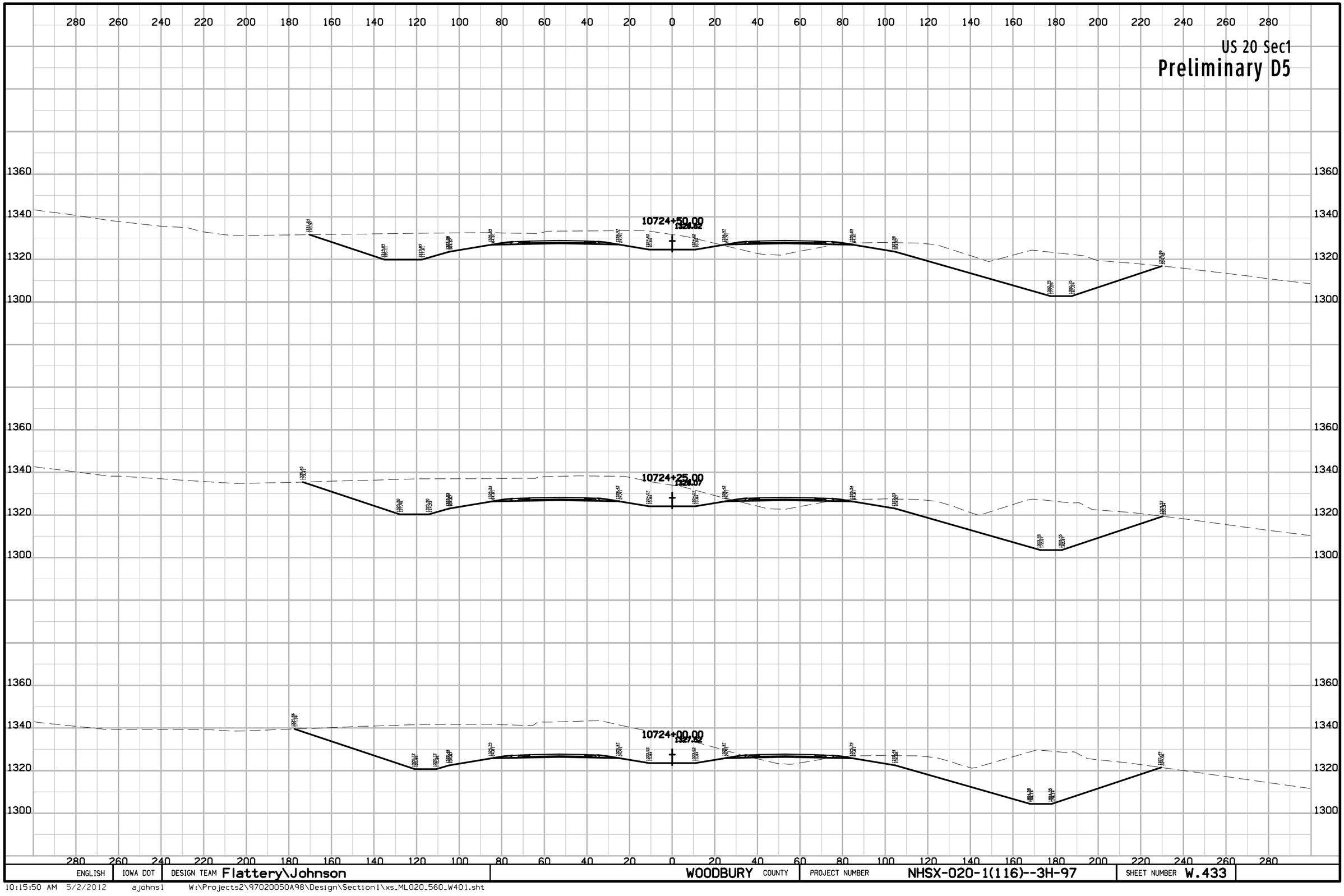
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.433

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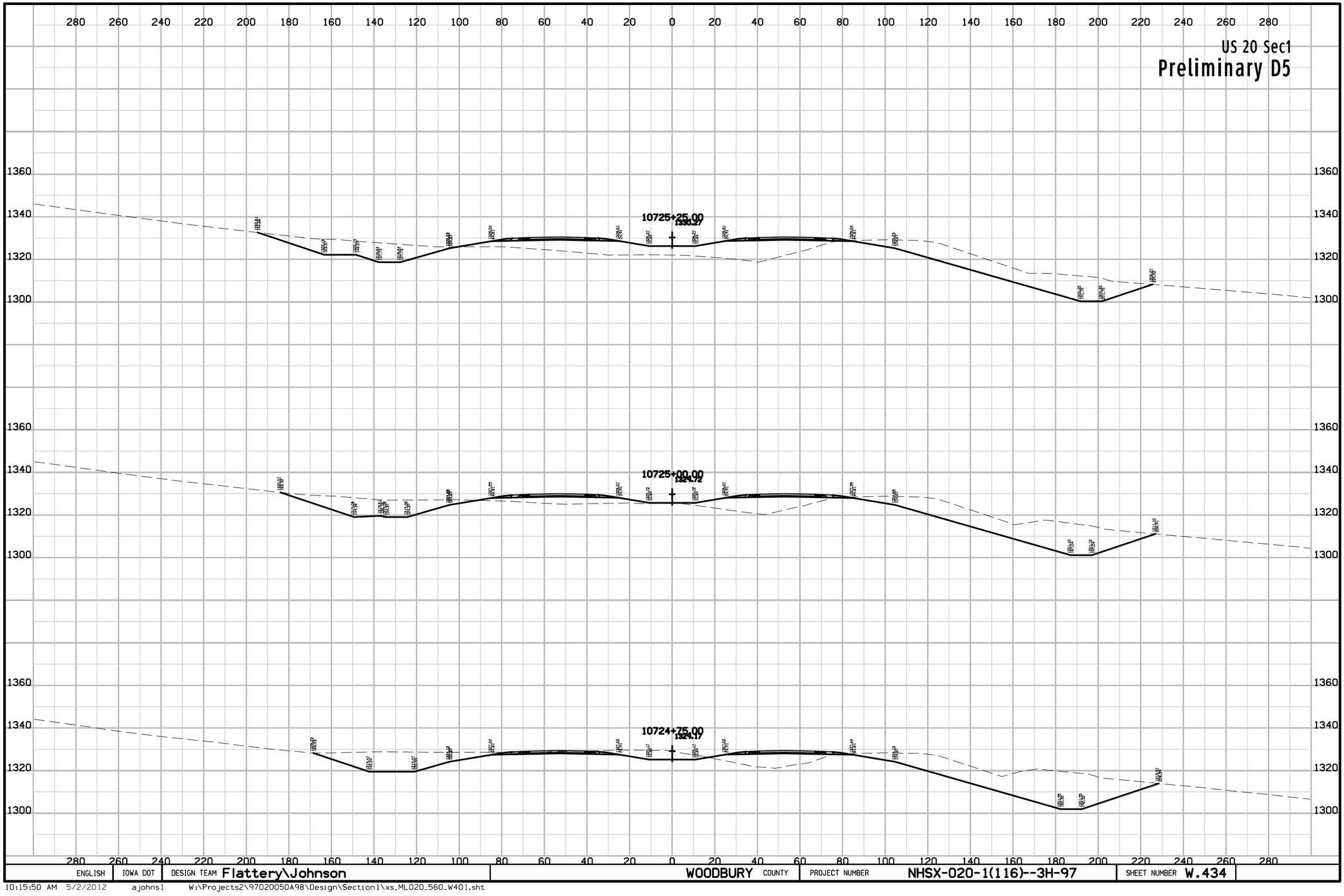
US 20 Sec1

Preliminary D5



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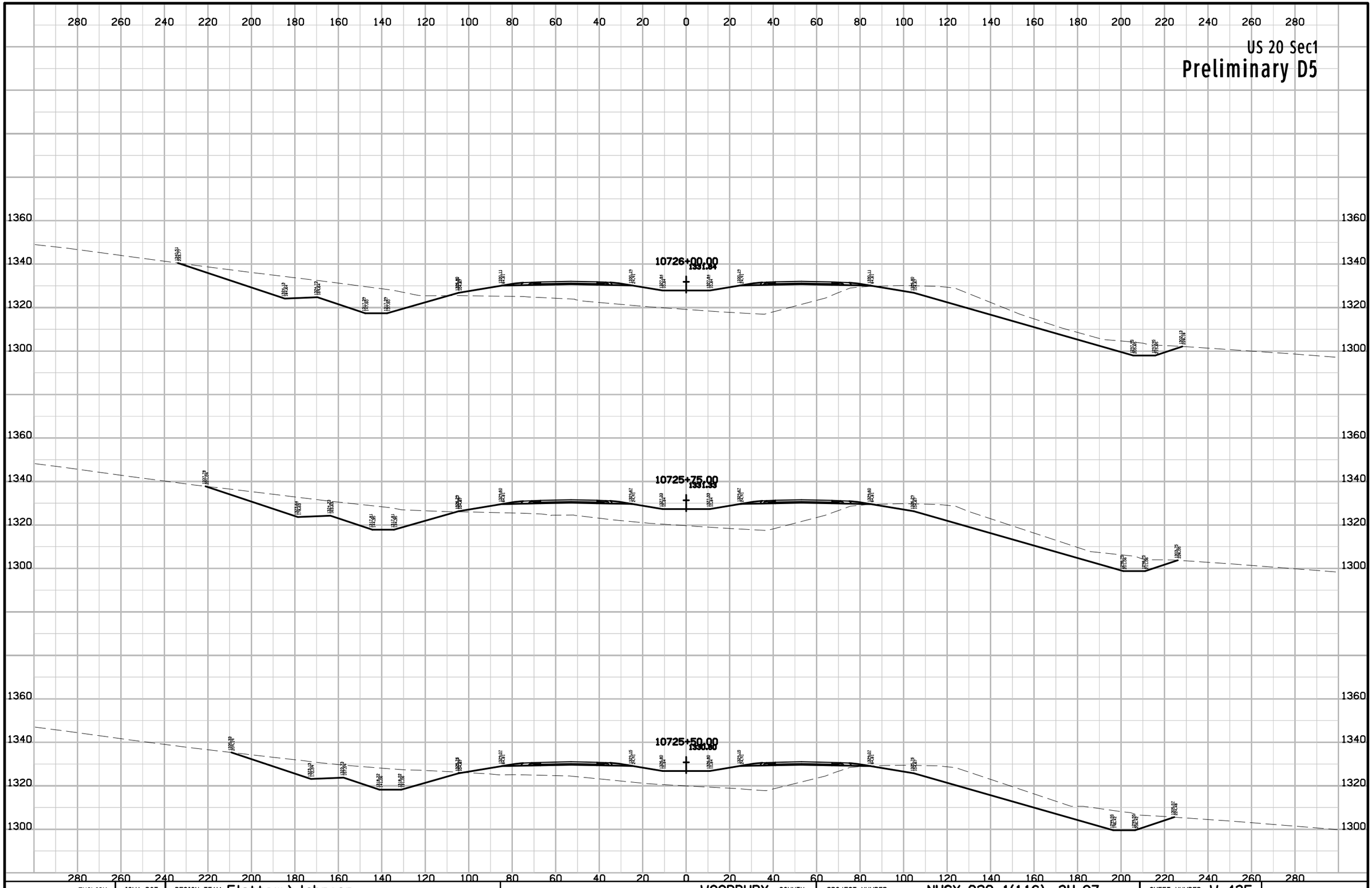
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.435

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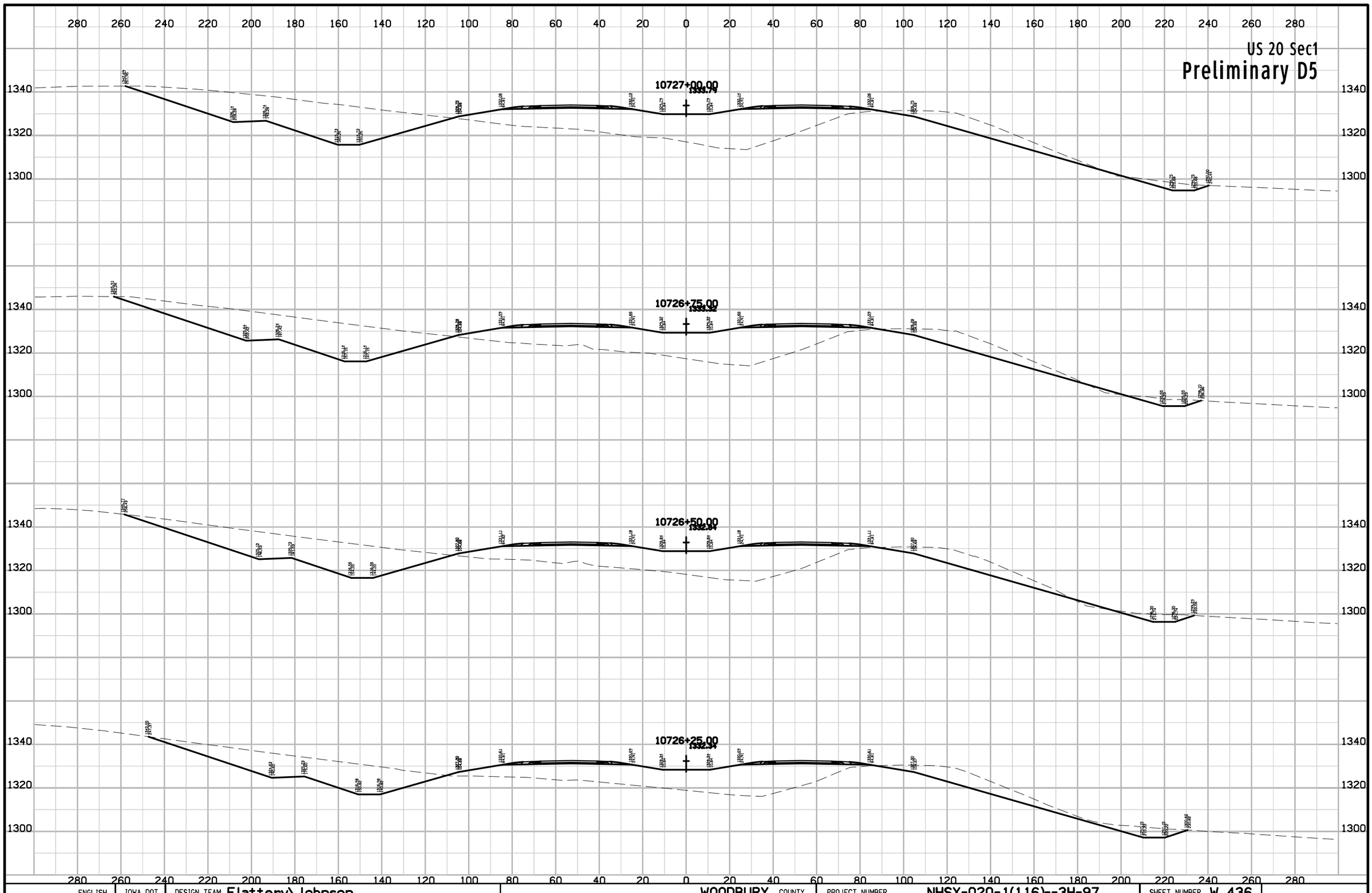
US 20 Sec1

Preliminary D5



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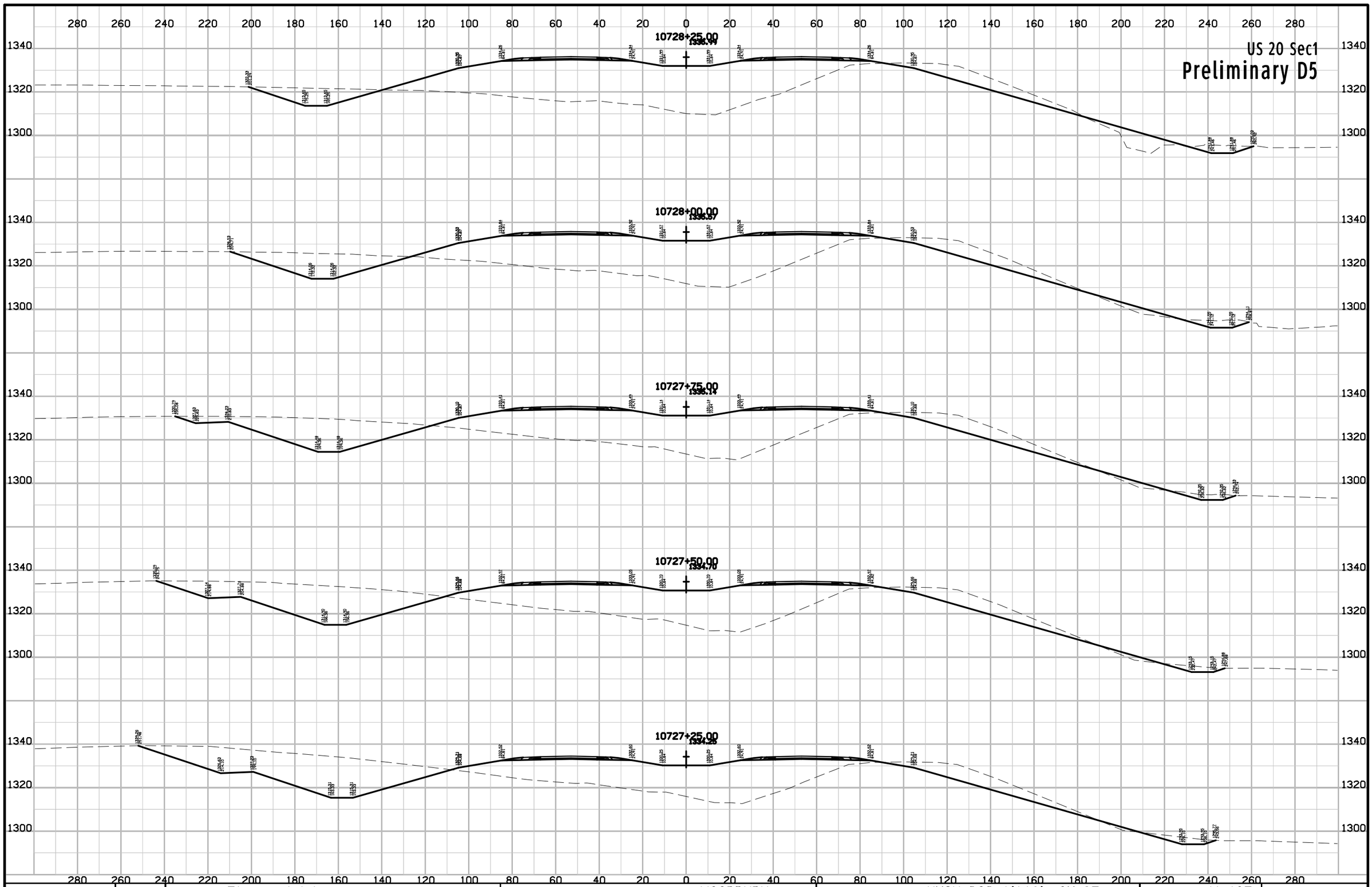
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.437

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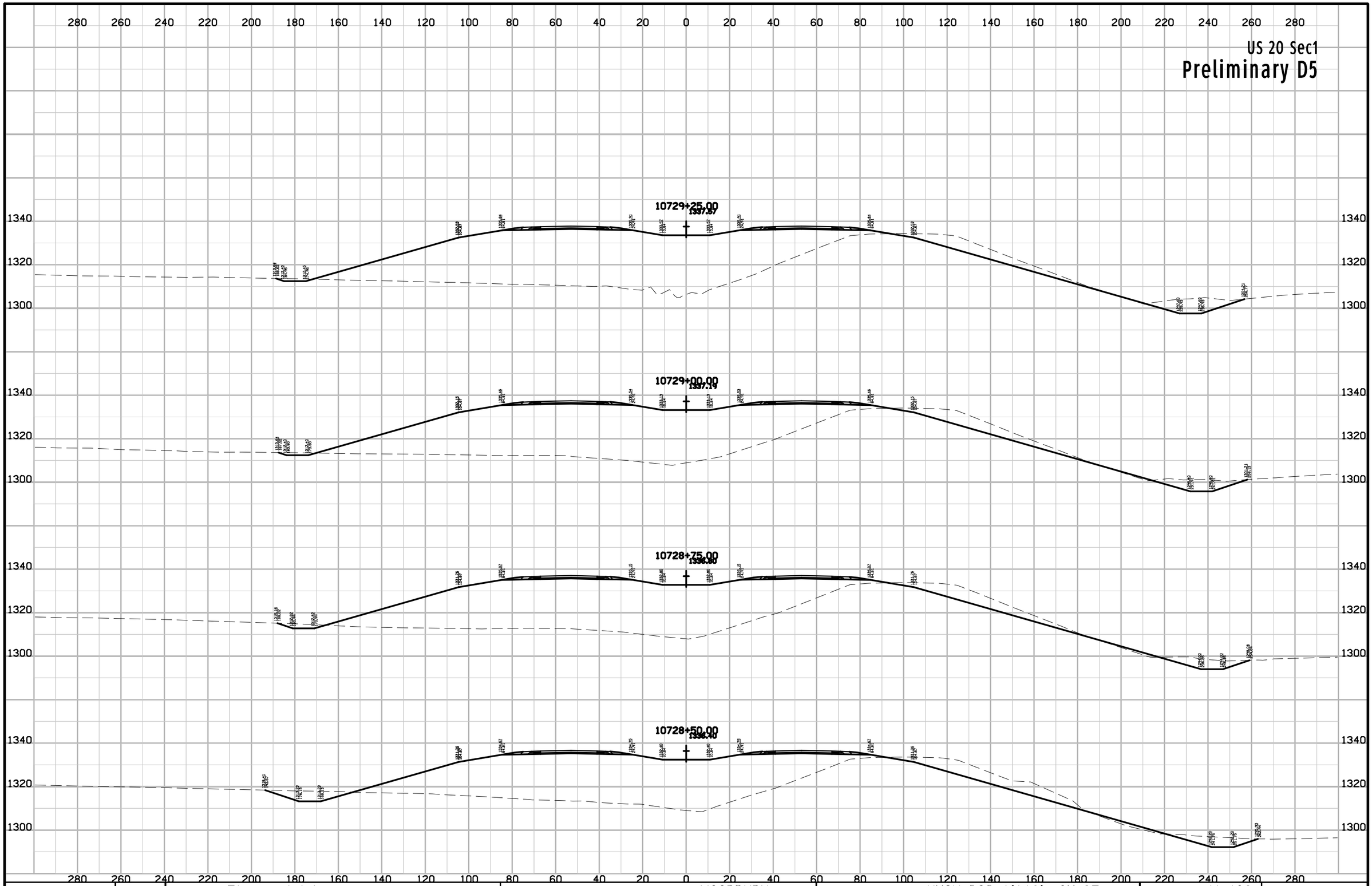
US 20 Sec1

Preliminary D5



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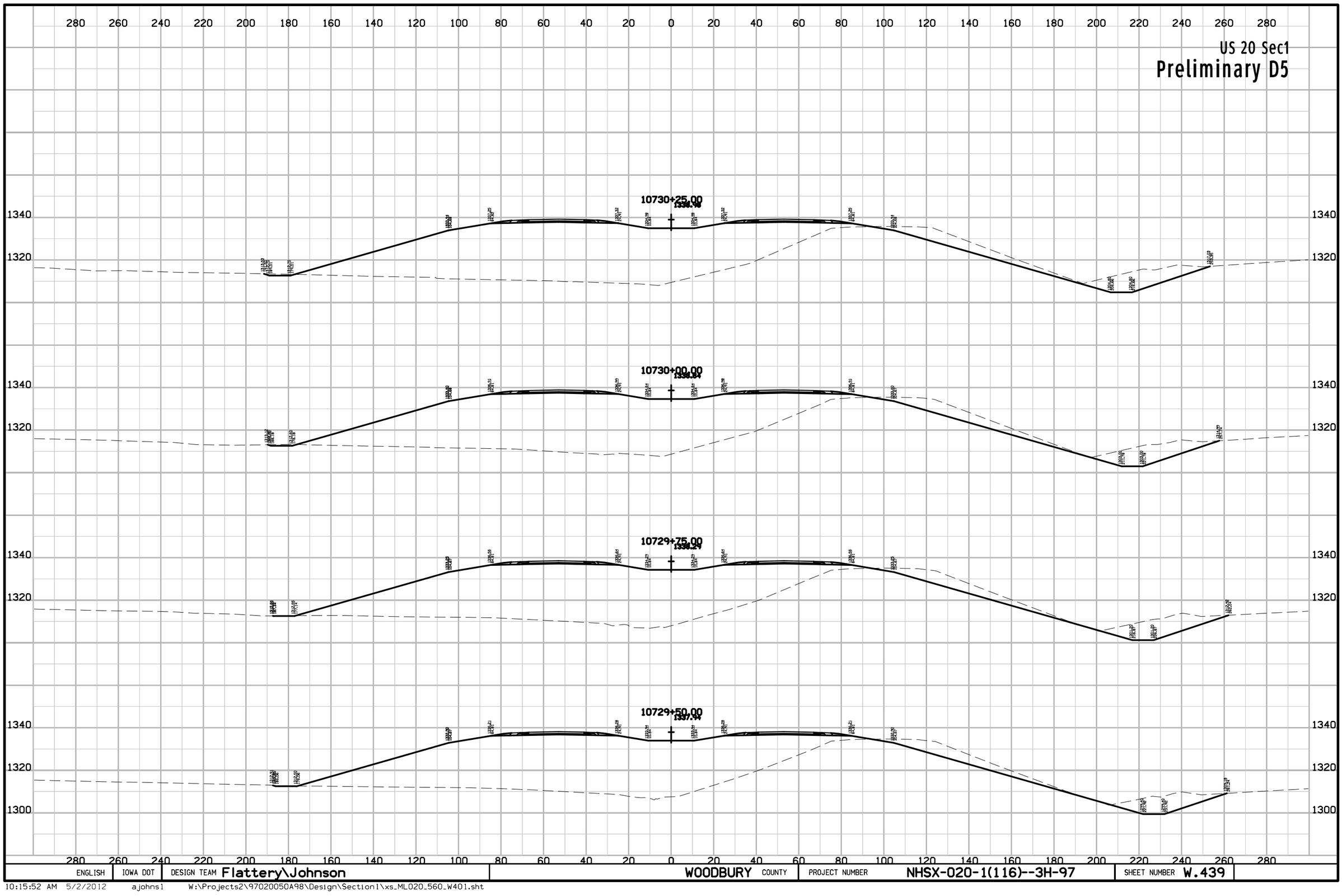
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.439

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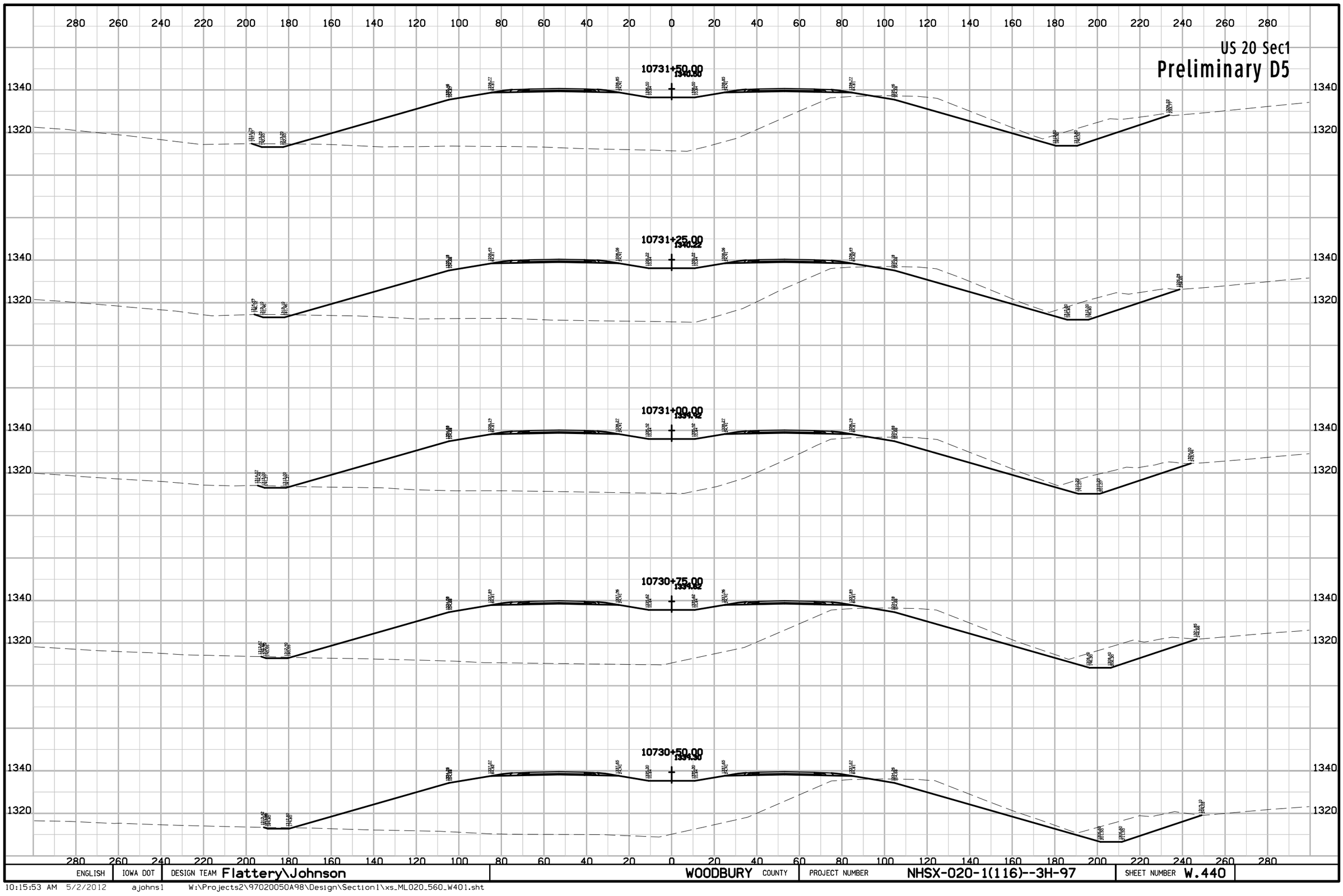
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

10732+75.00
1341.77

10732+50.00
1341.34

10732+25.00
1341.24

10732+00.00
1341.04

10731+75.00
1340.78

1340
1320

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.441

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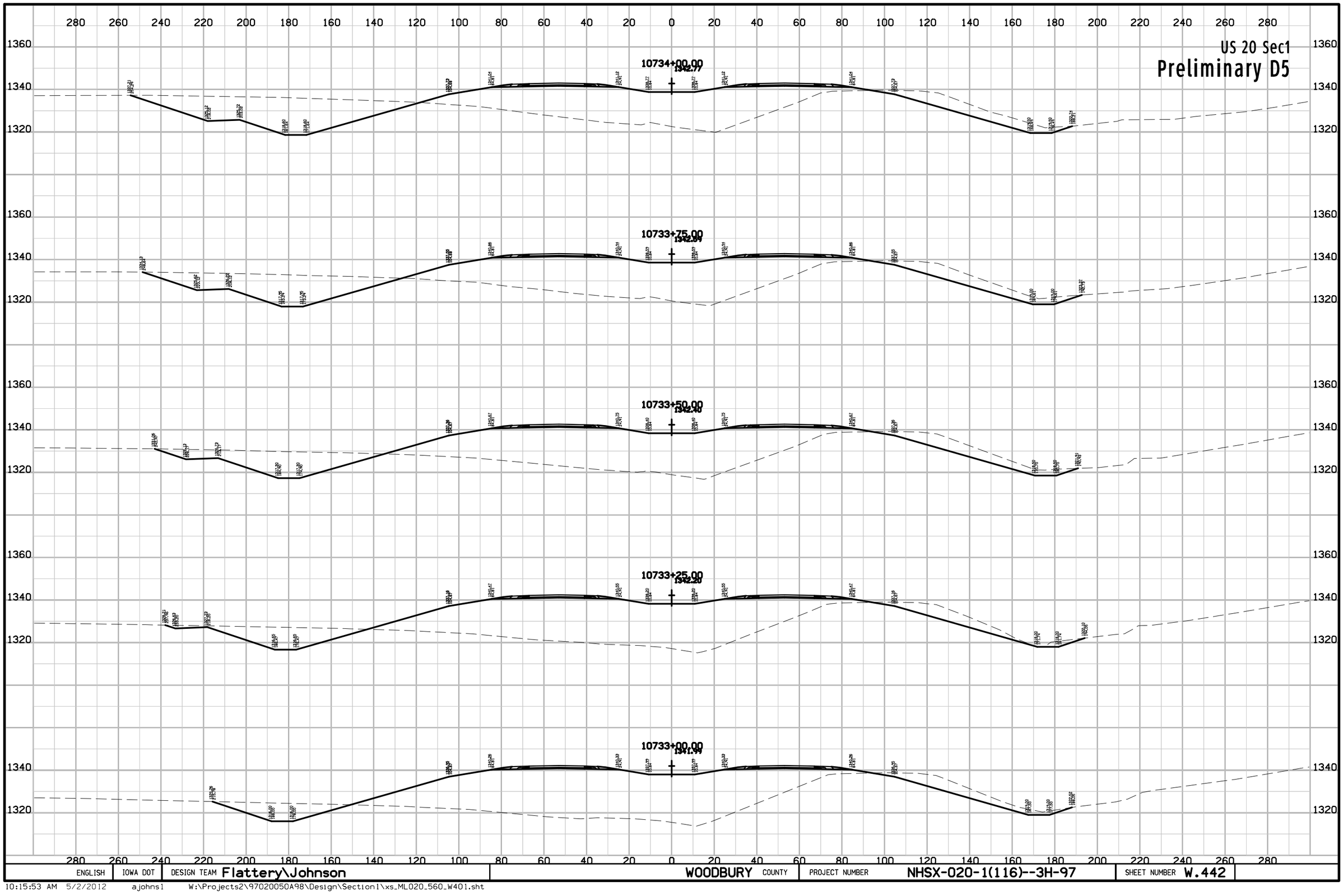
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.442

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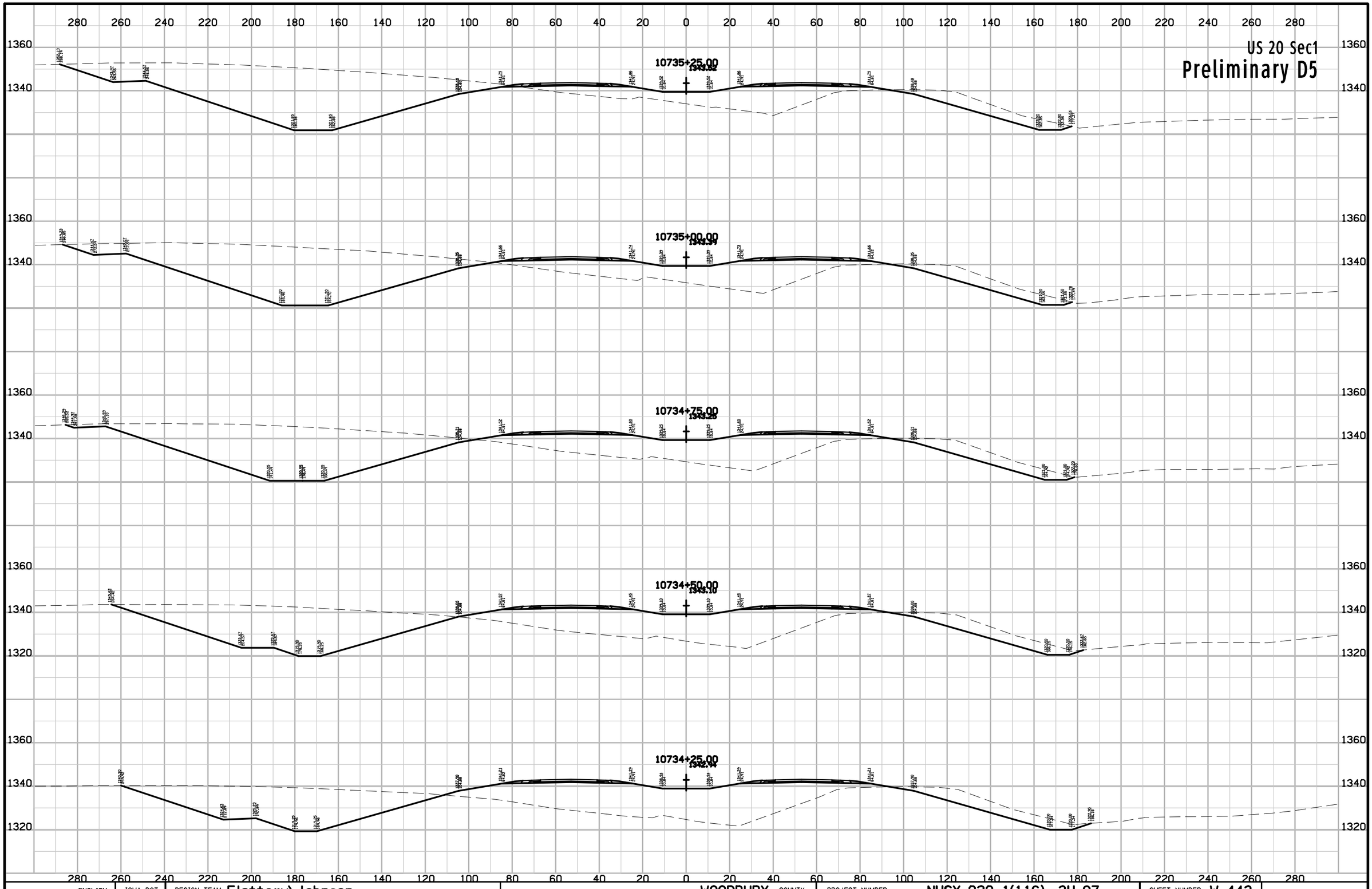
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.443

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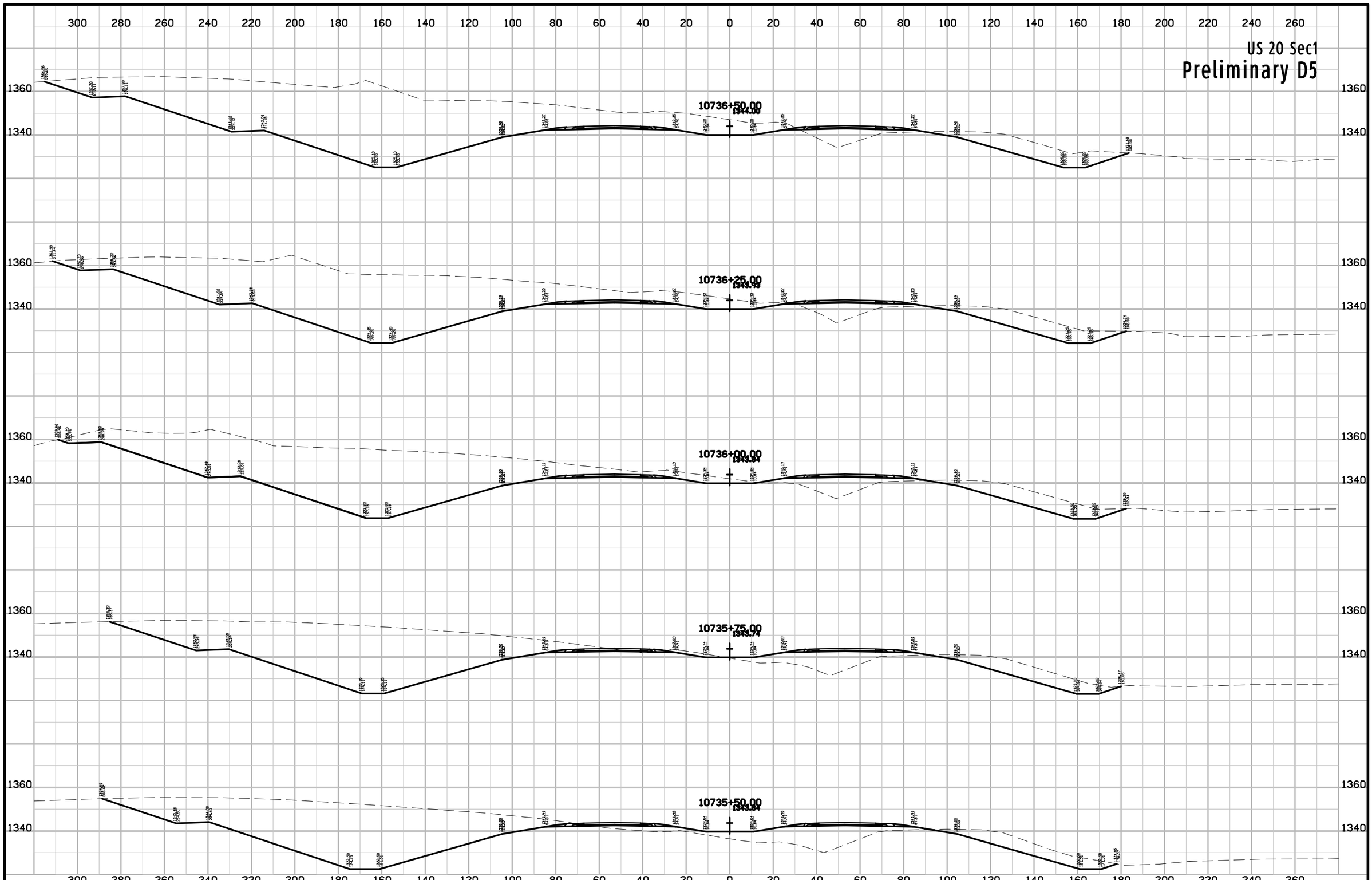
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.444

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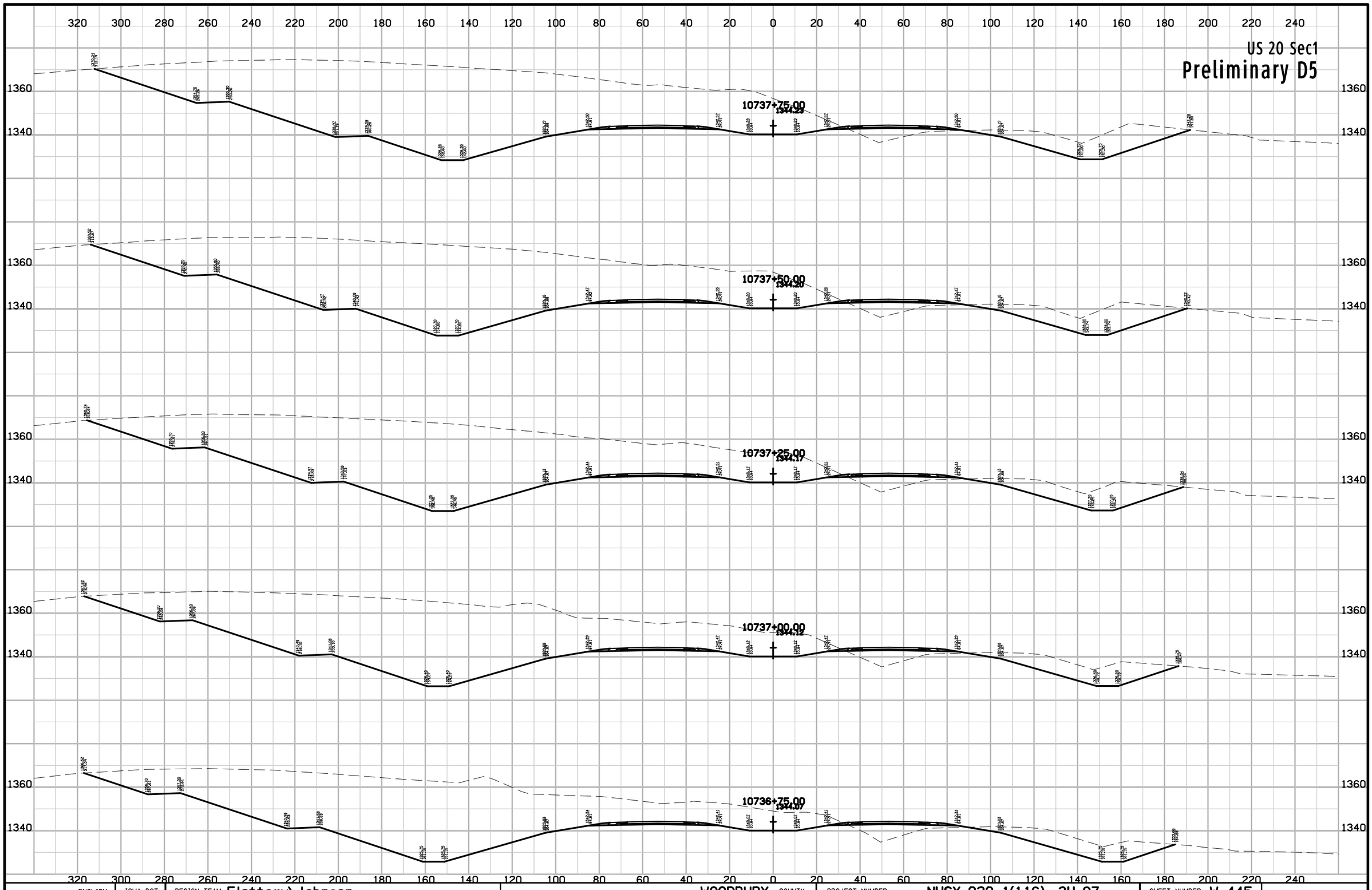
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.445

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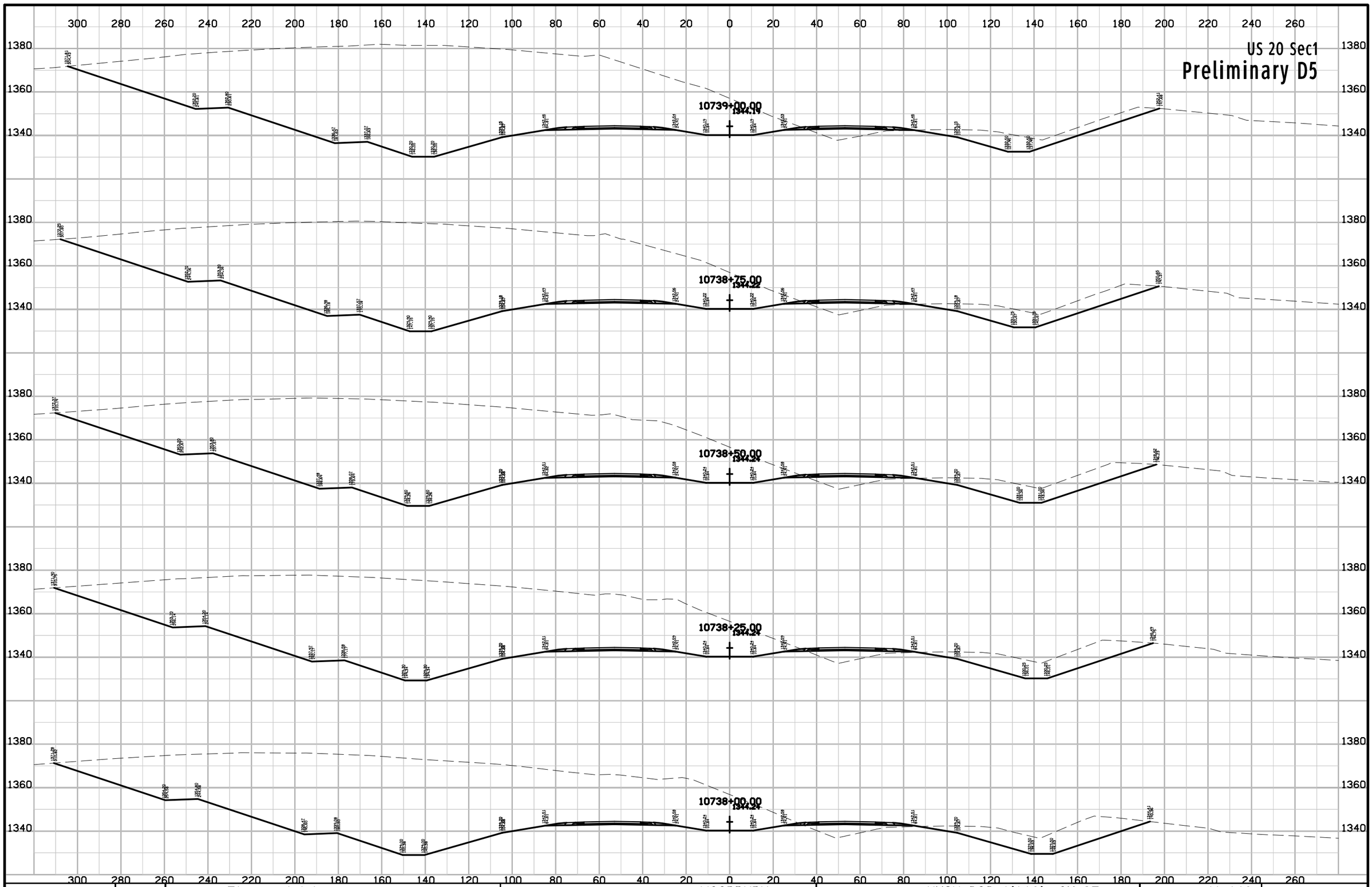
US 20 Sec1

Preliminary D5



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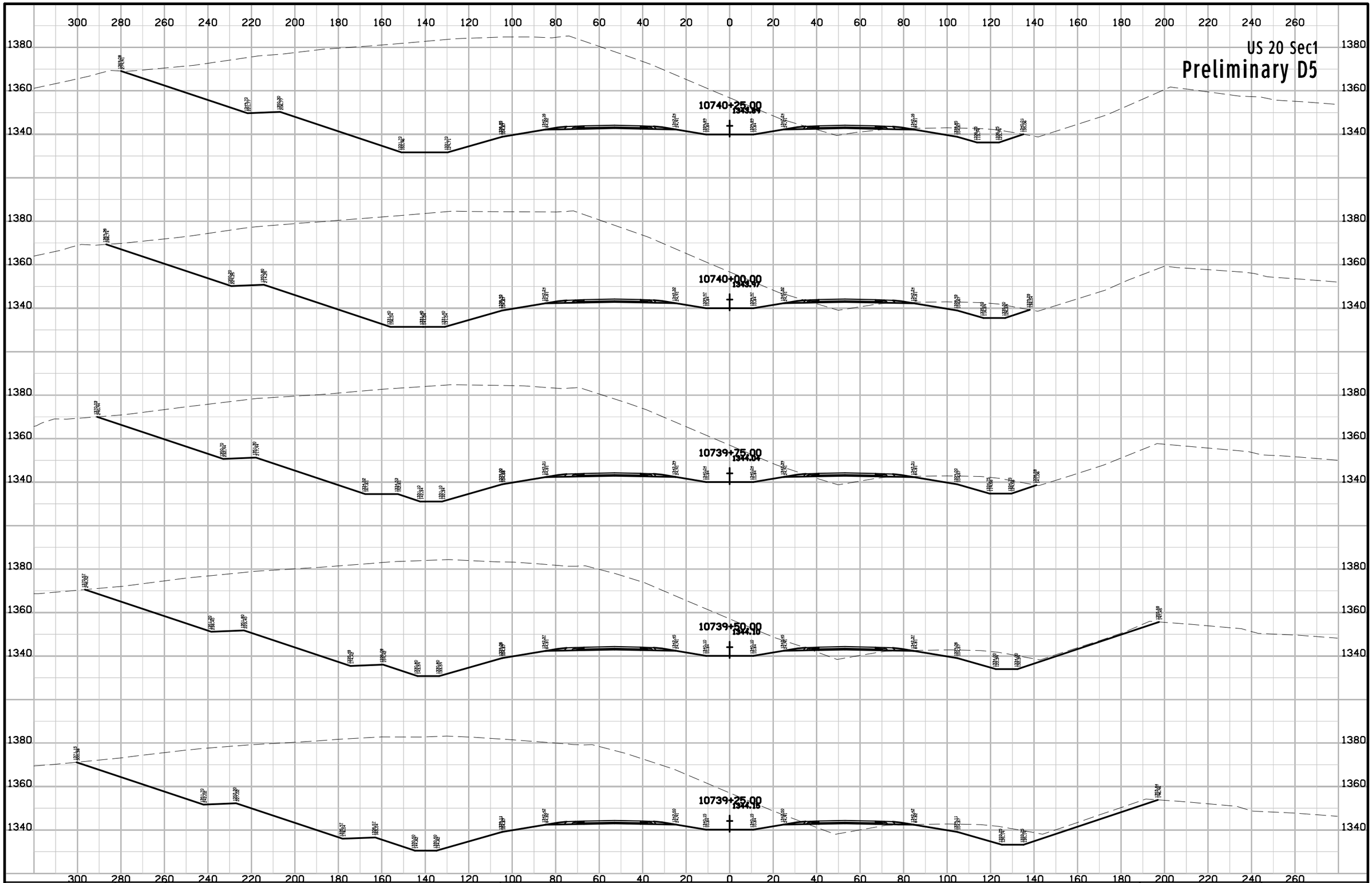

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.447

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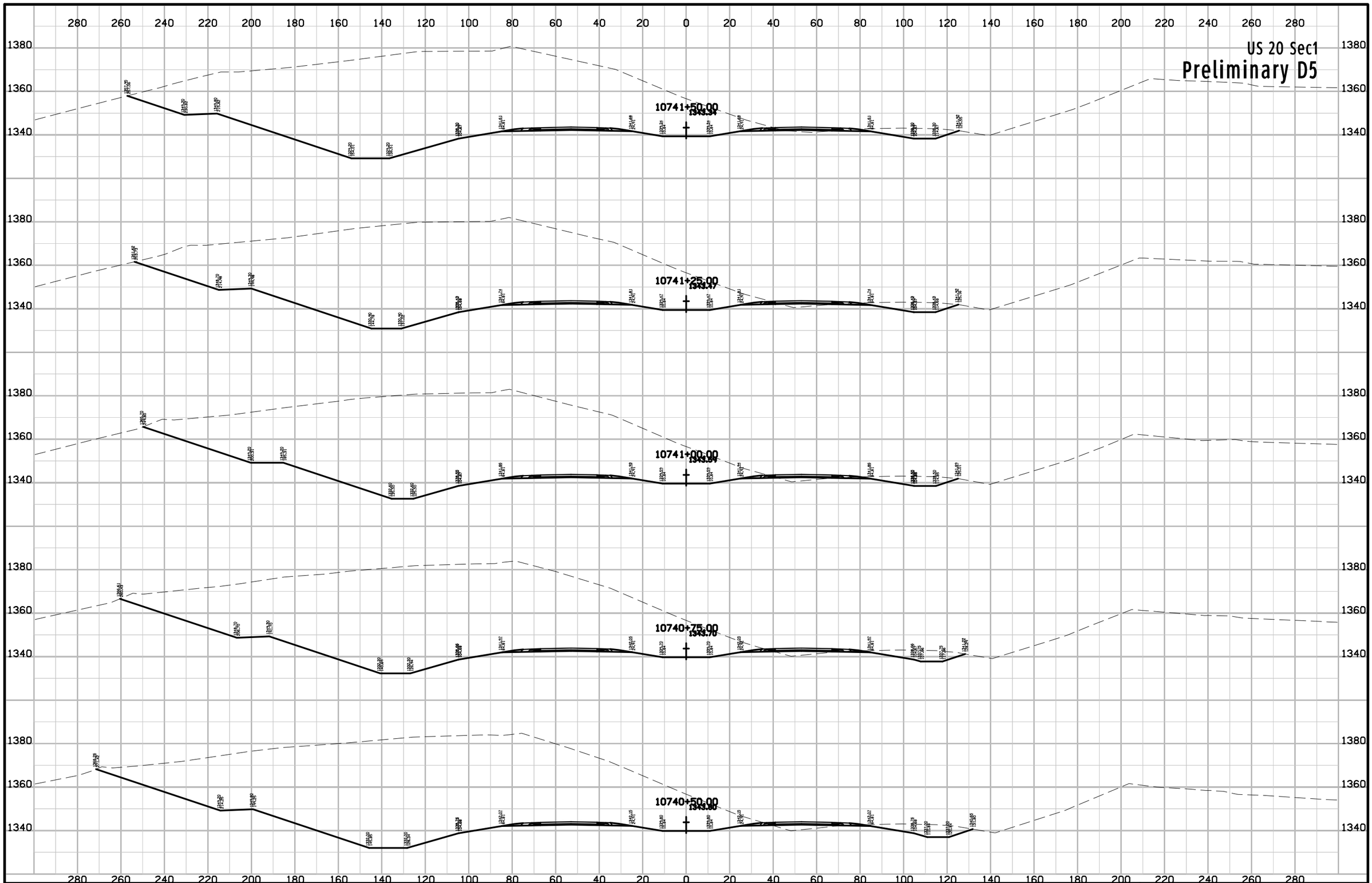
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.448

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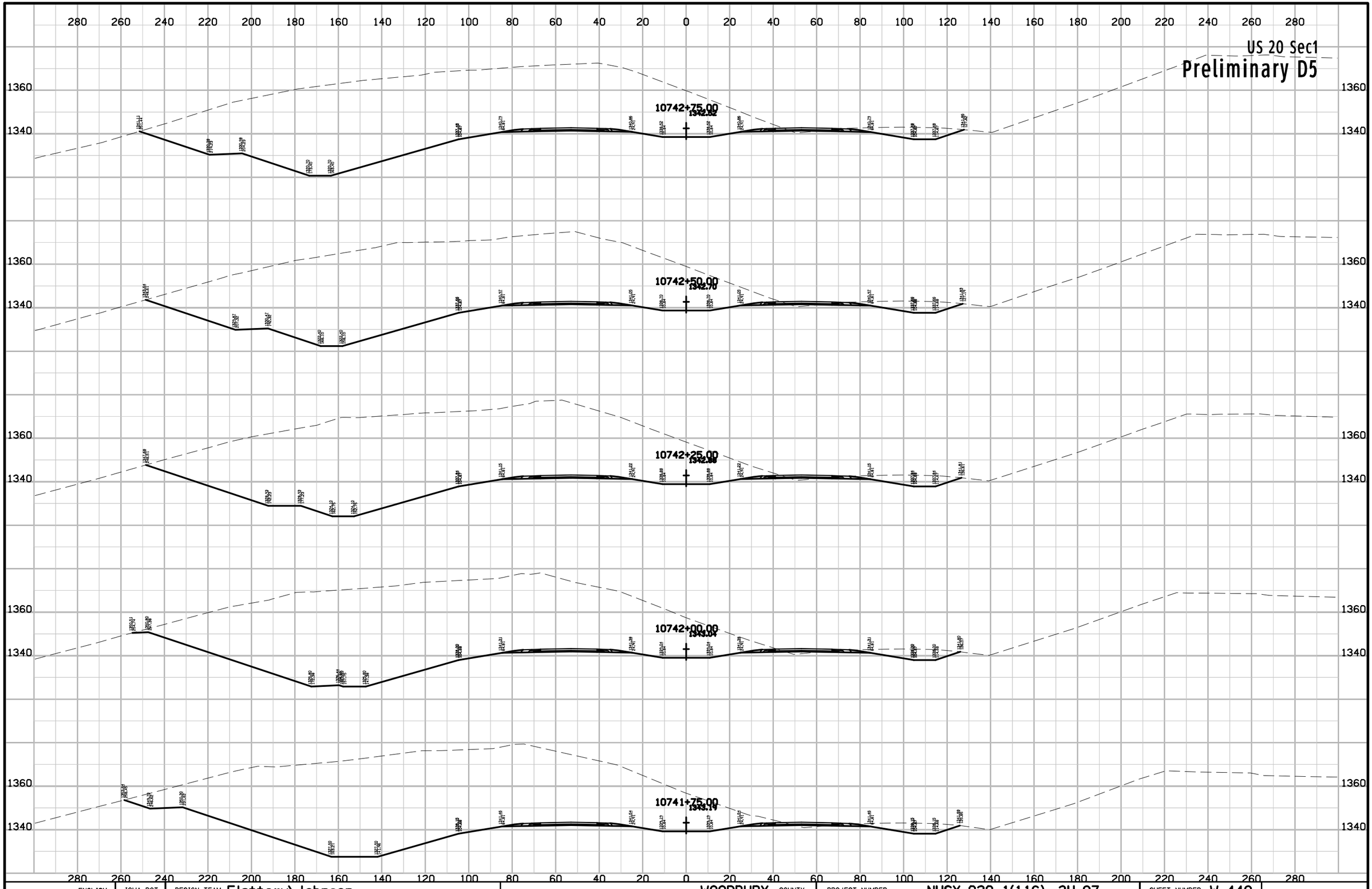
US 20 Sec1

Preliminary D5



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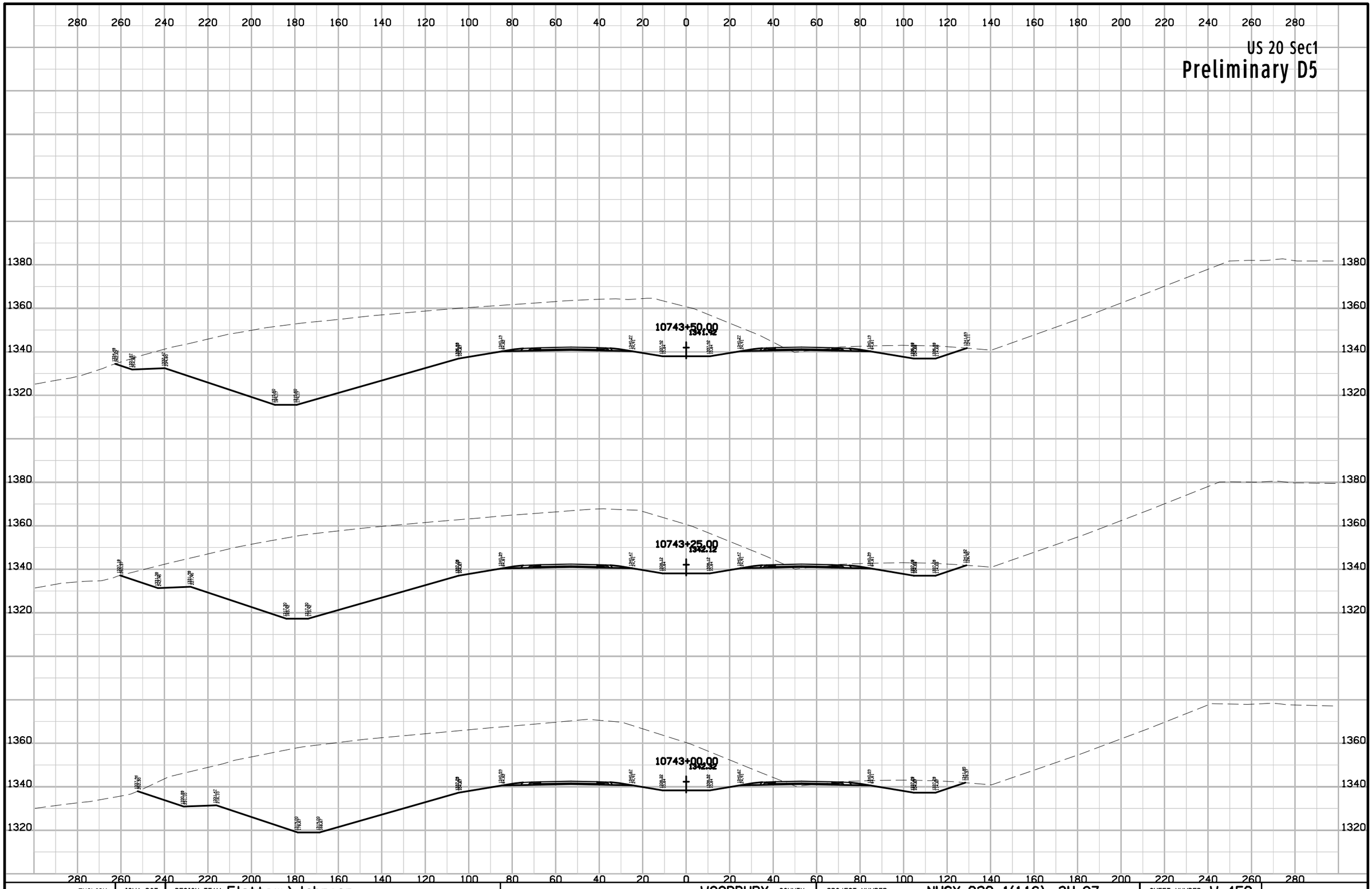
US 20 Sec1

Preliminary D5



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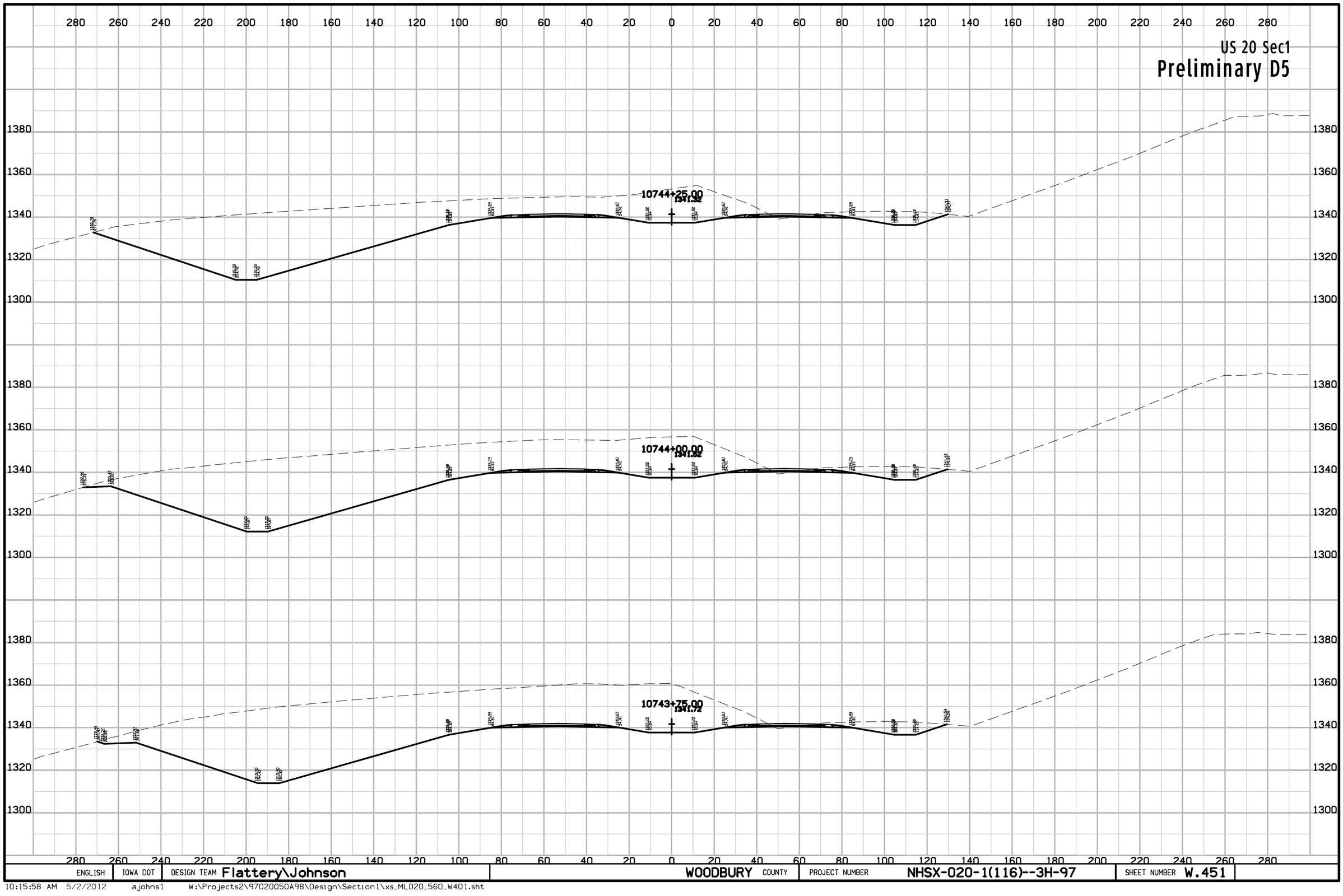
US 20 Sec1

Preliminary D5



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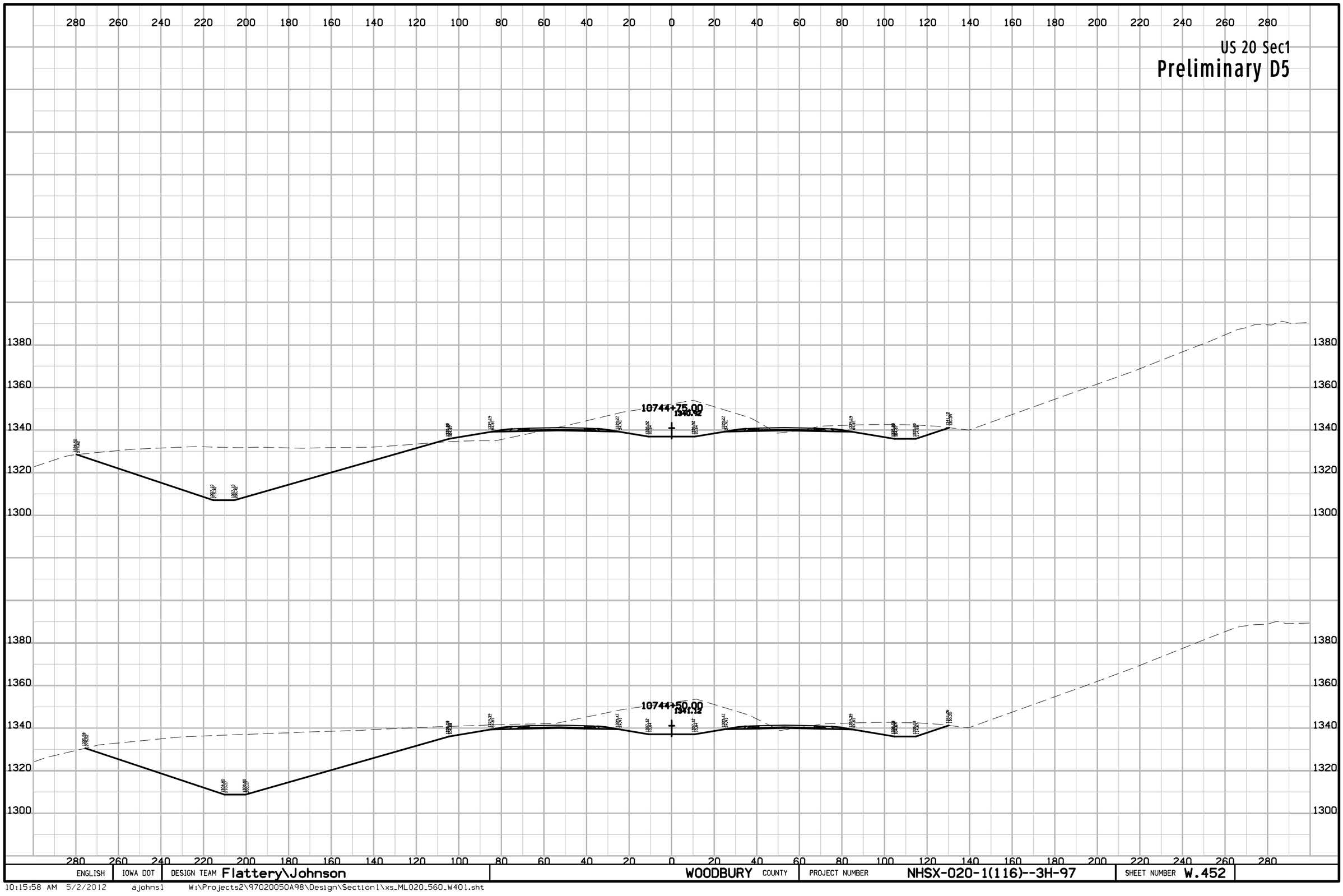
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.452

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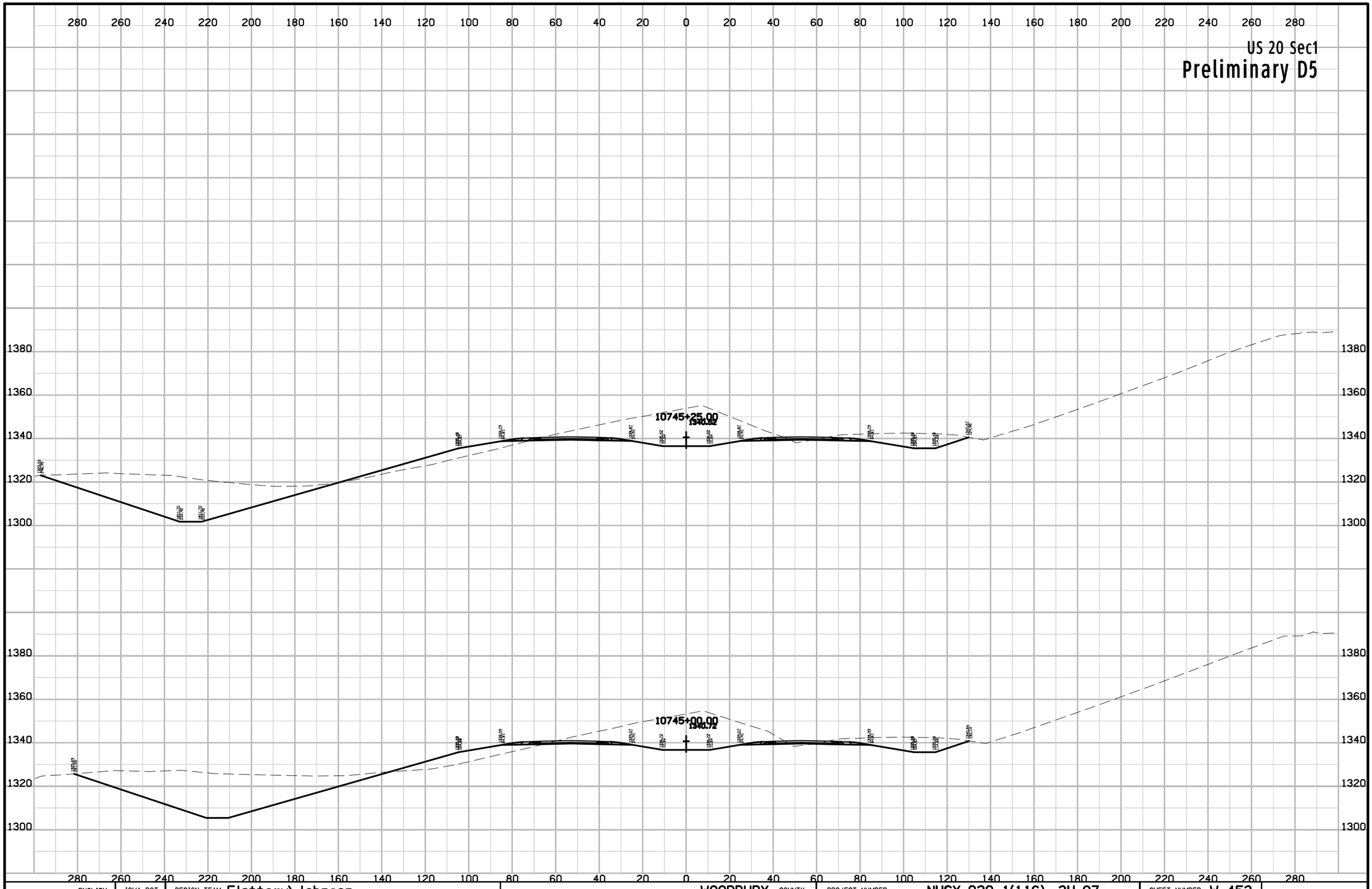
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.453

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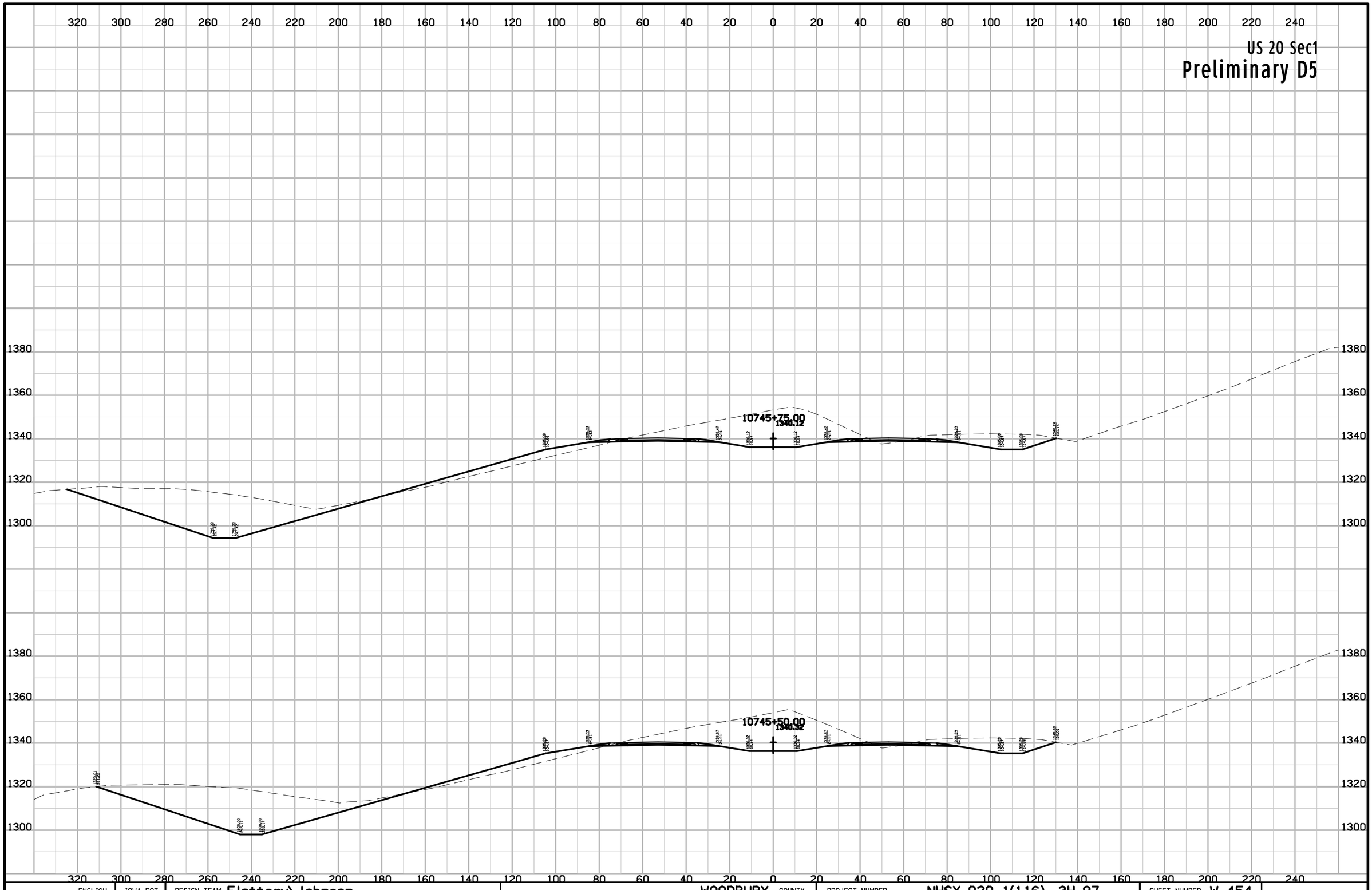
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.454

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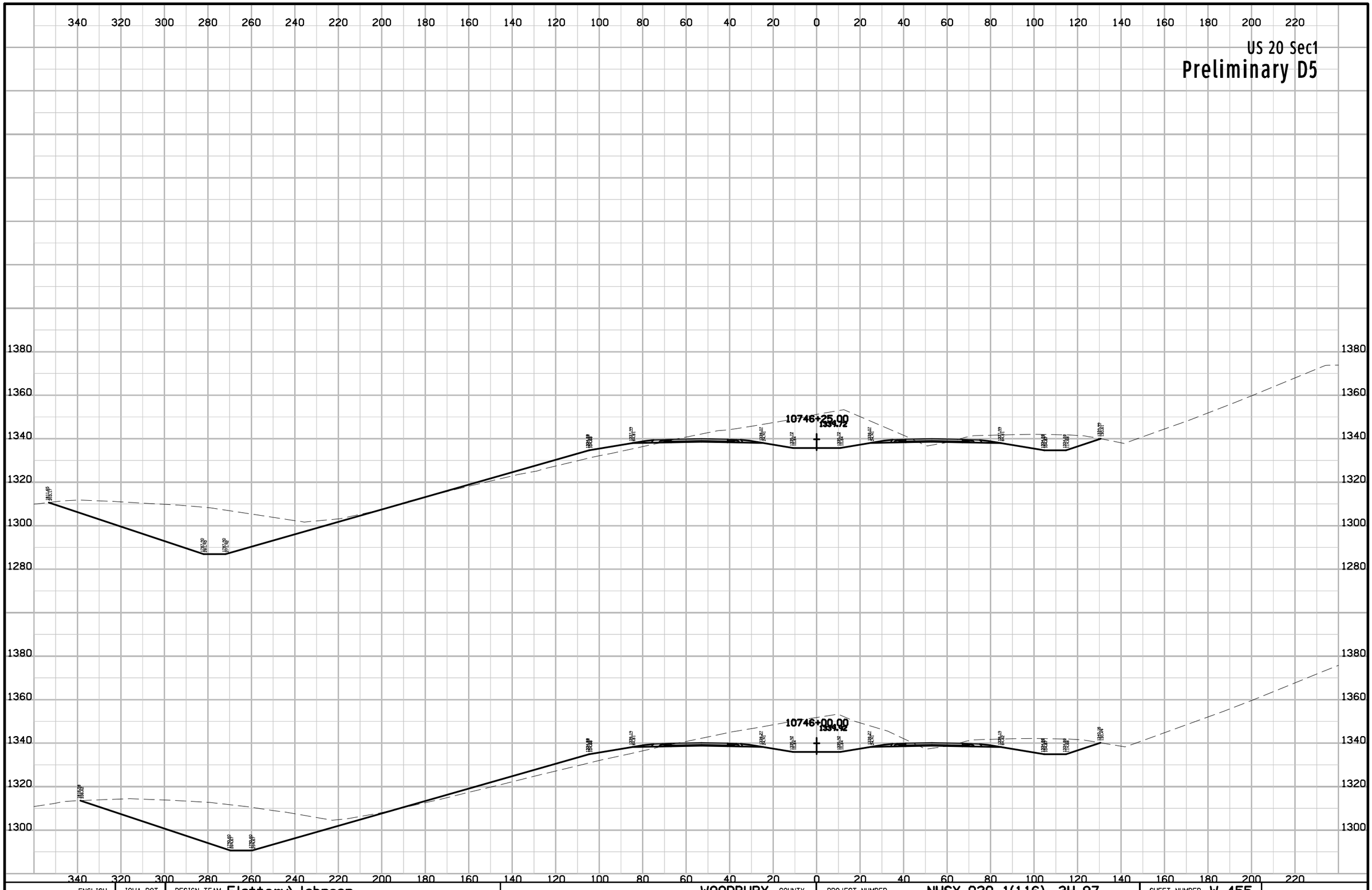
US 20 Sec1

Preliminary D5



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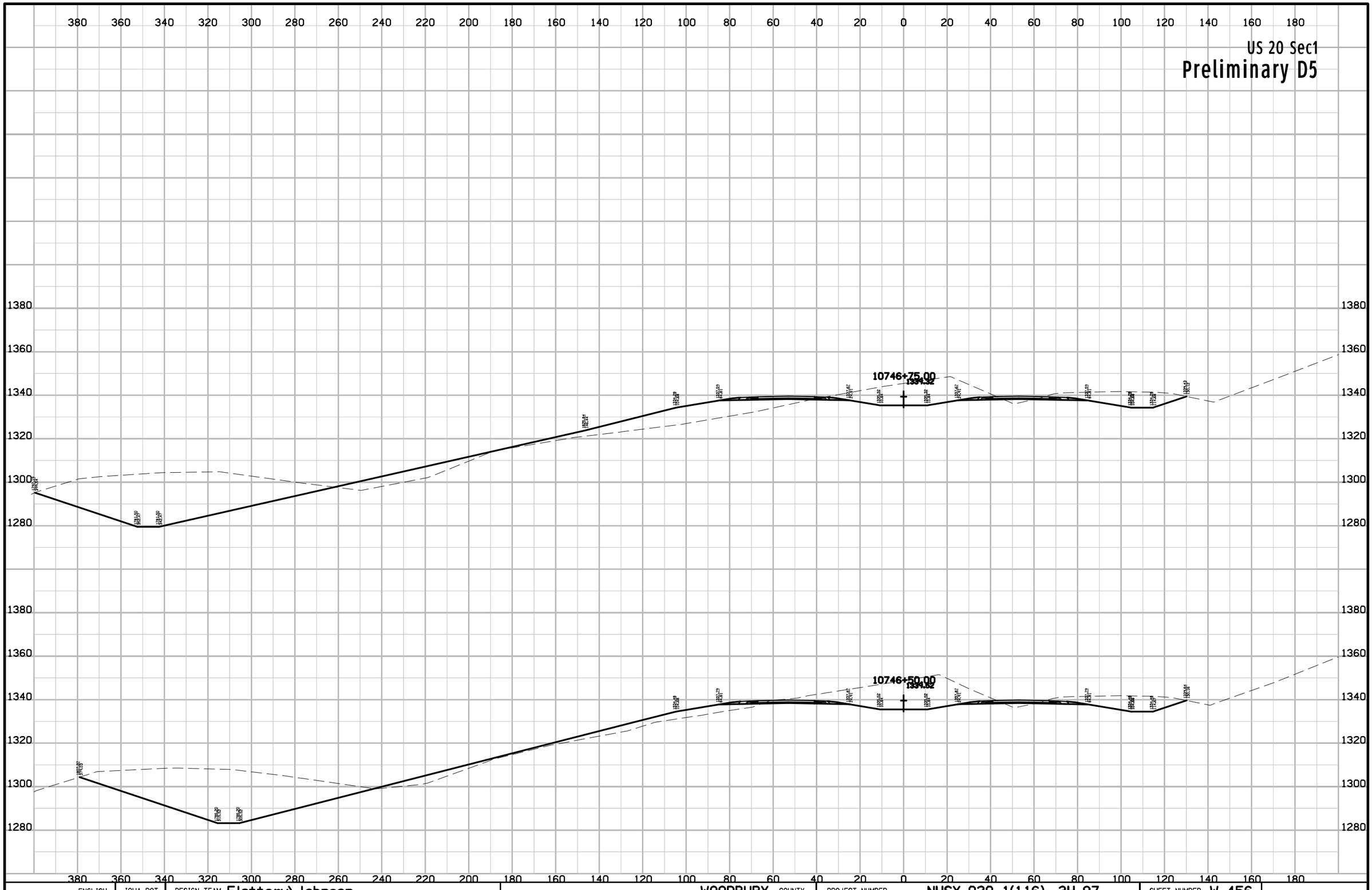
US 20 Sec1

Preliminary D5



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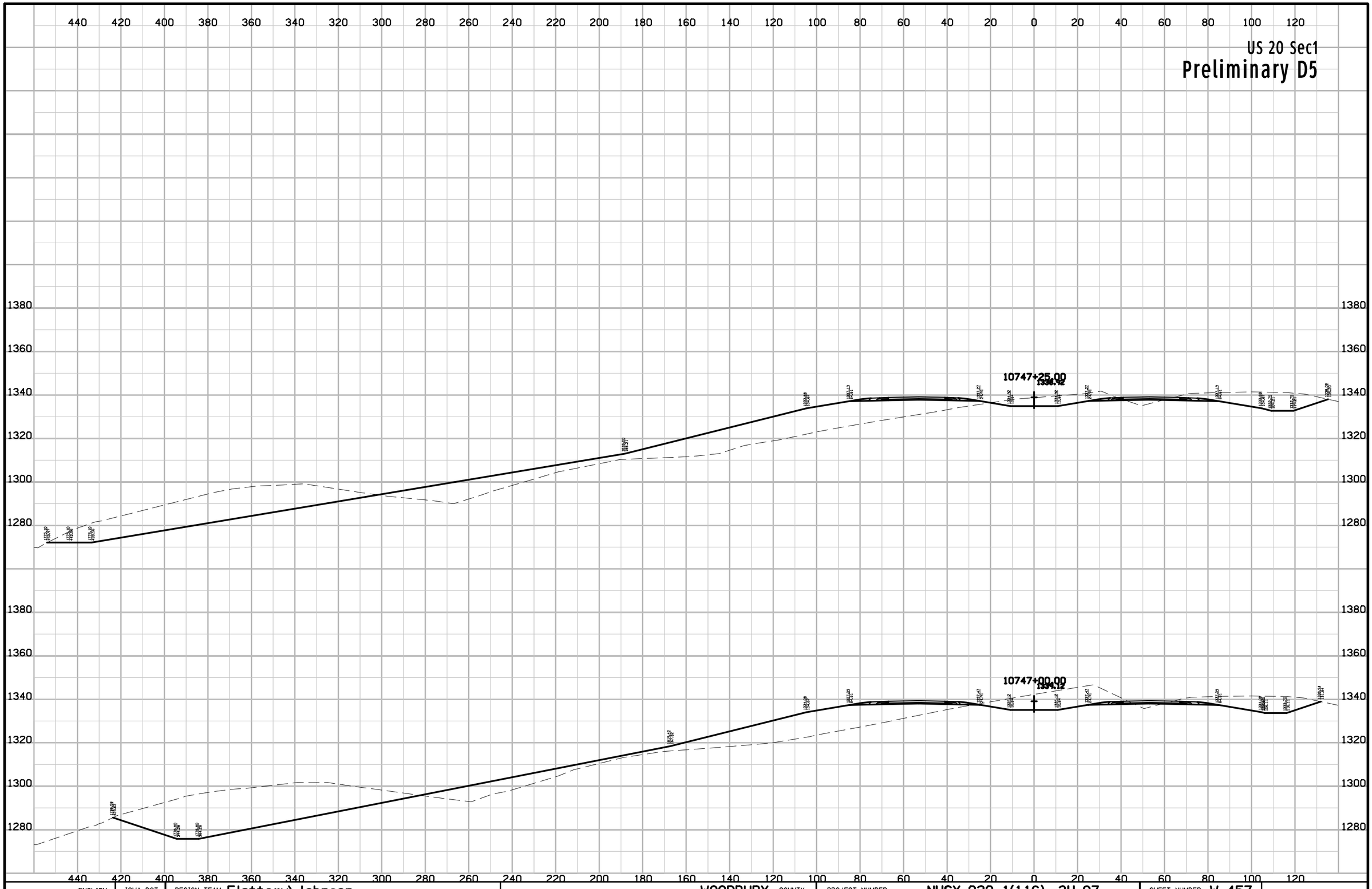
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.457

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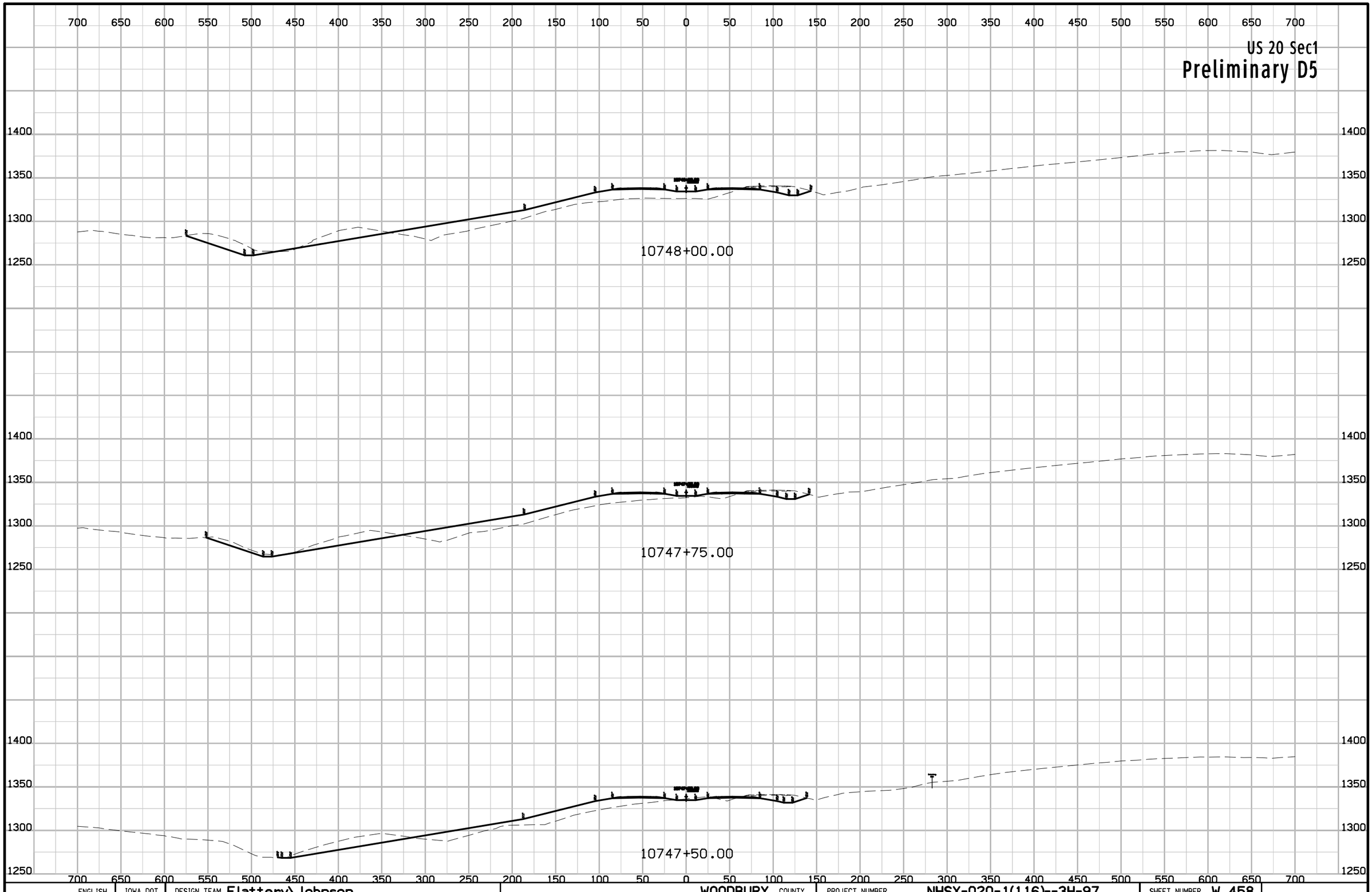
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.458

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US 20 Sec1

Preliminary D5

700 650 600 550 500 450 400 350 300 250 200 150 100 50 0 50 100 150 200 250 300 350 400 450 500 550 600 650 700

1400
1350
1300
1250

10748+75.00

10748+50.00

10748+25.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.459

9:56:02 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_1400_W458.sht

US 20 Sec1

Preliminary D5

700 650 600 550 500 450 400 350 300 250 200 150 100 50 0 50 100 150 200 250 300 350 400 450 500 550 600 650 700

1400
1350
1300
1250
1200

10749+25.00

10749+00.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.460

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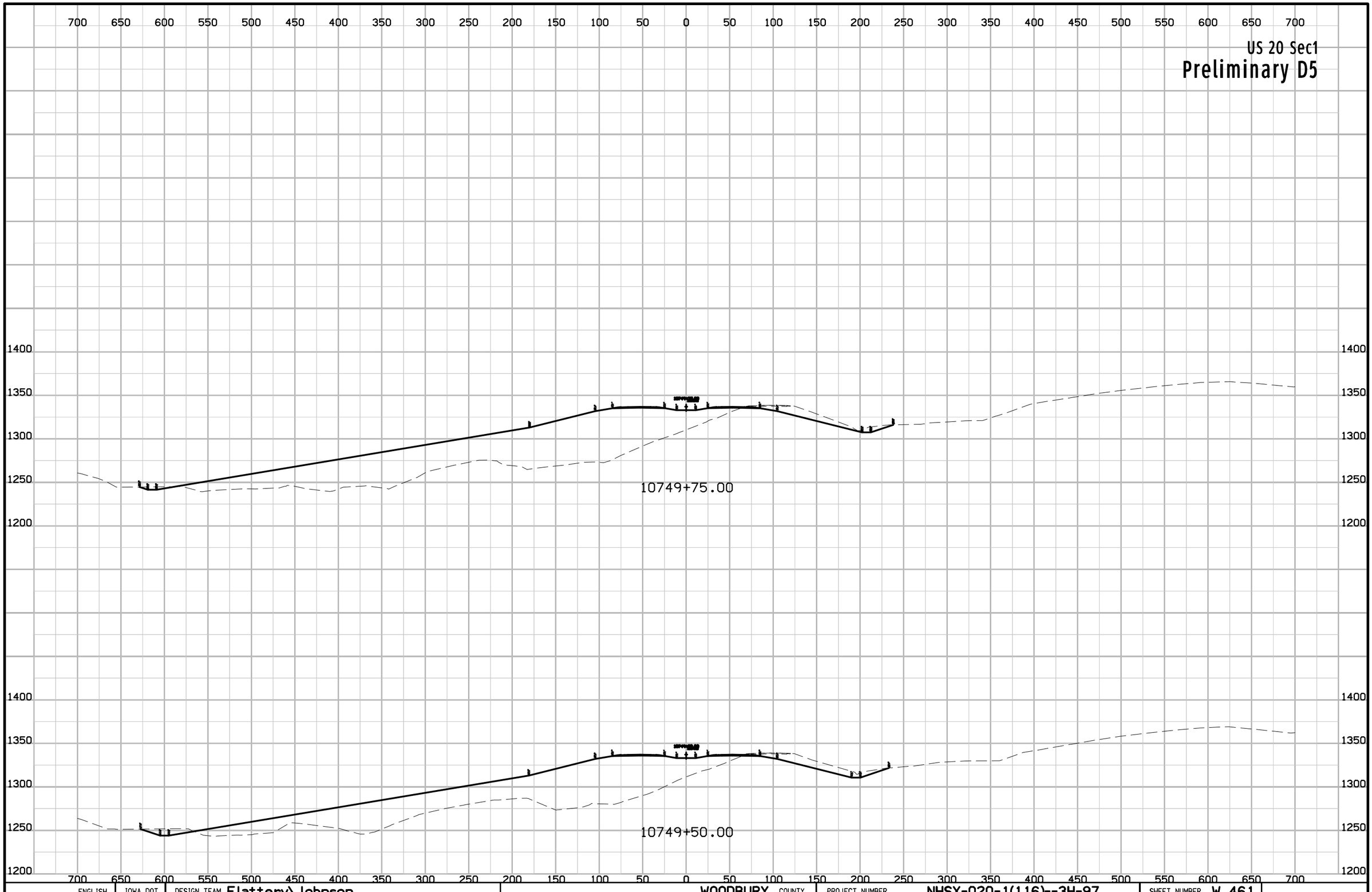
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.461

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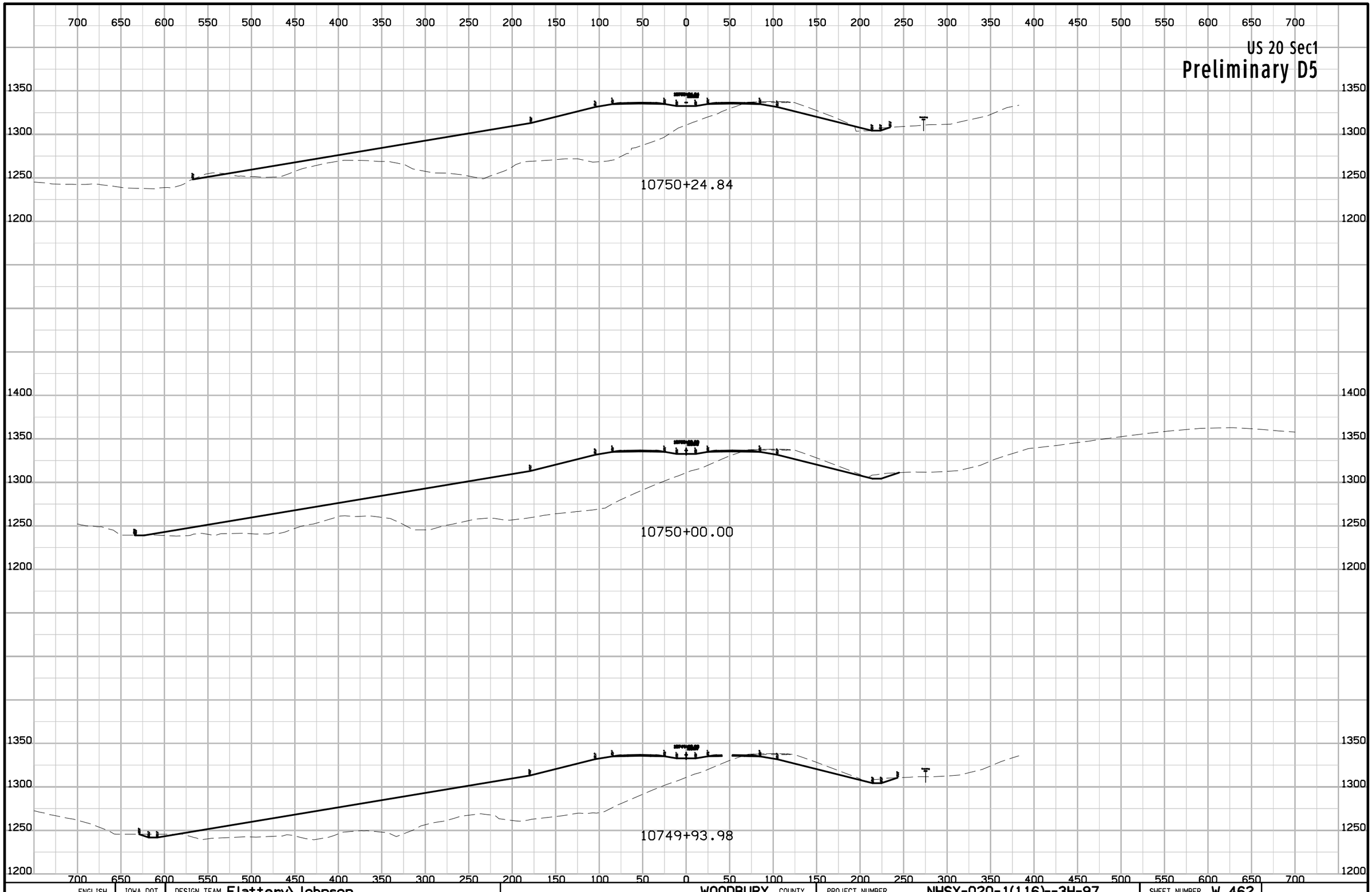
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.462

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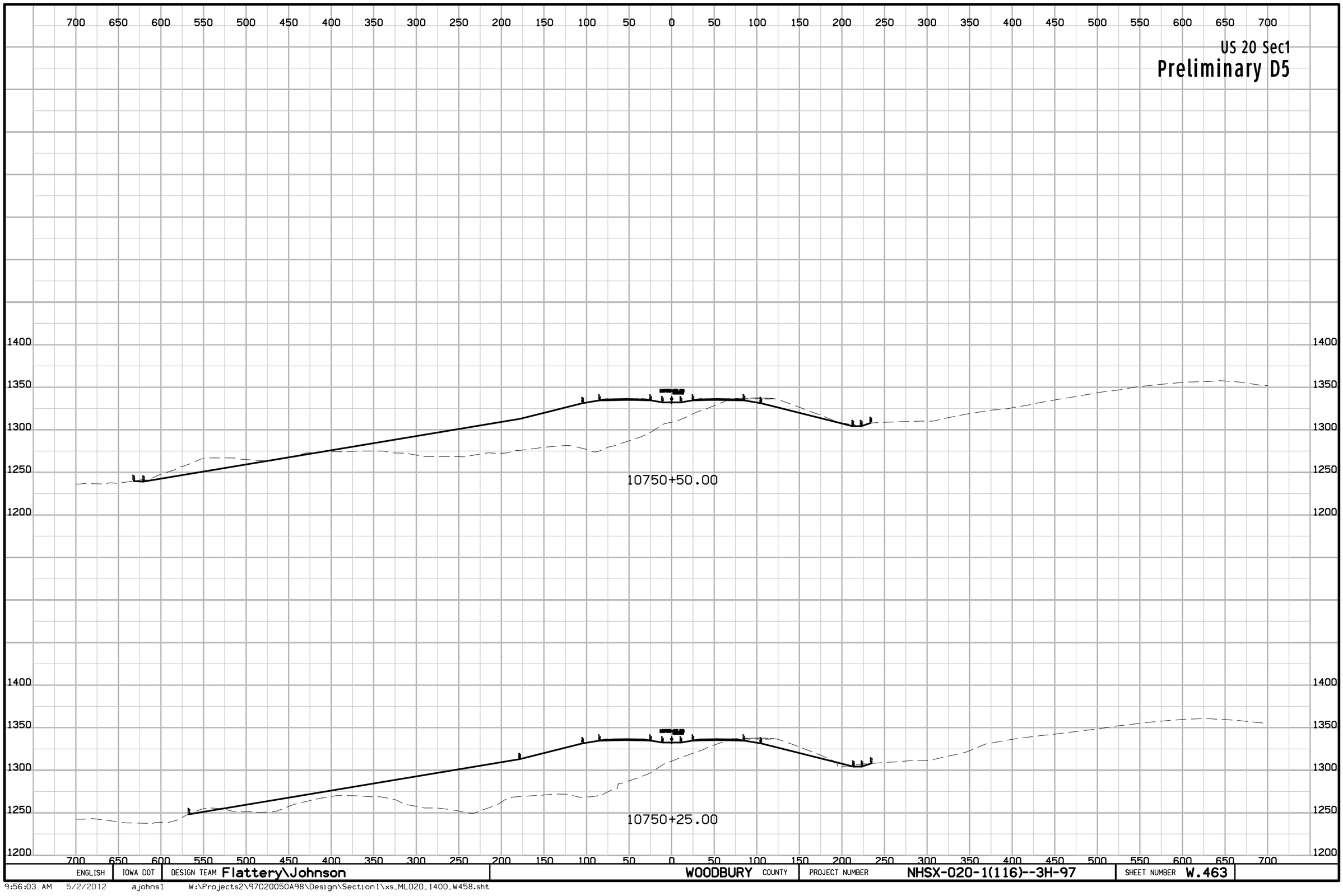
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.463

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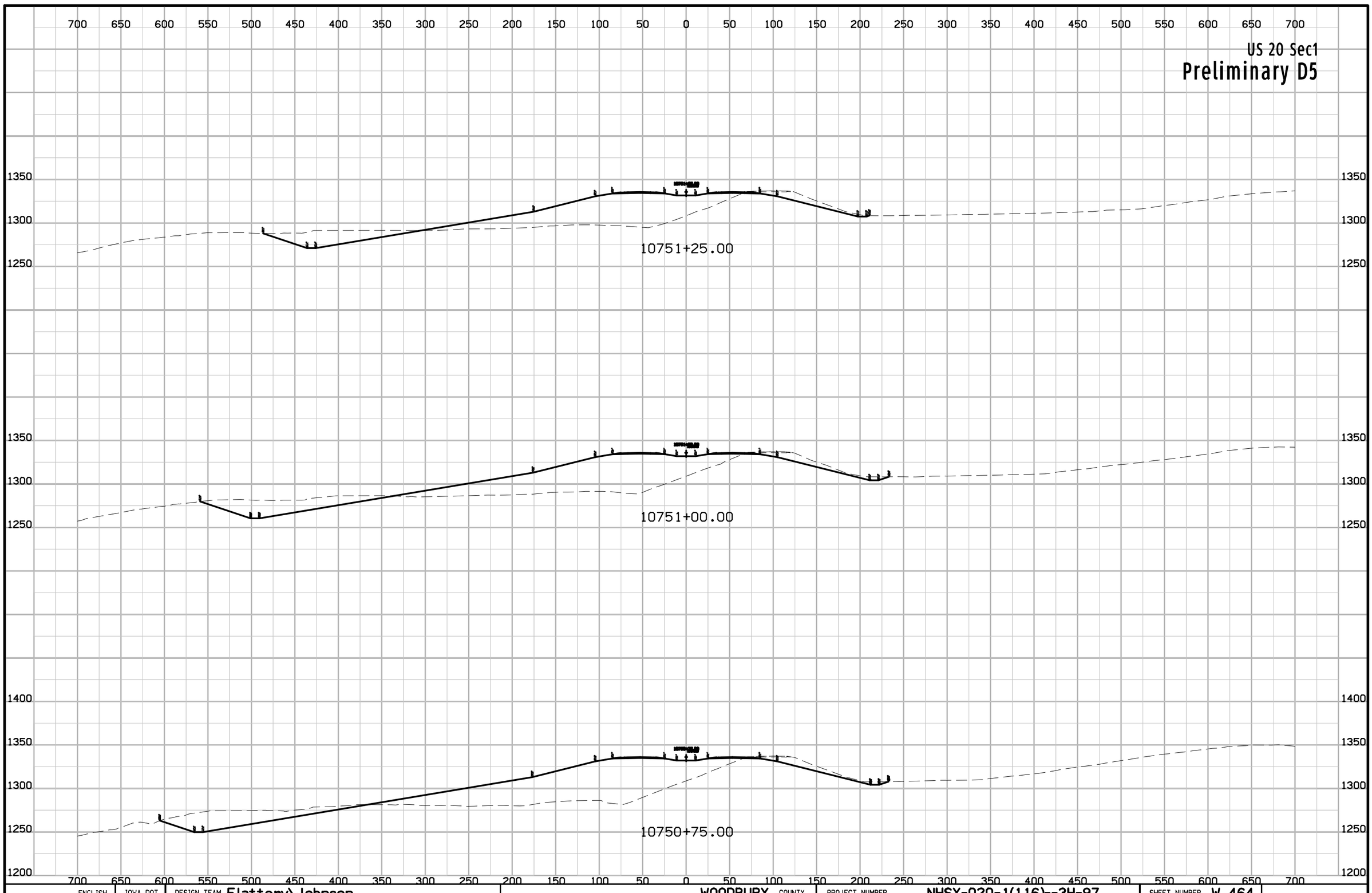
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

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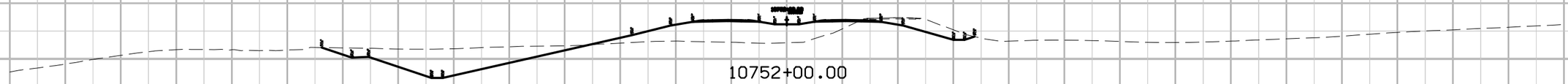
1350
1300
1250



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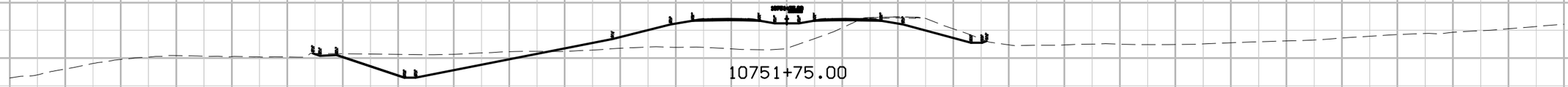
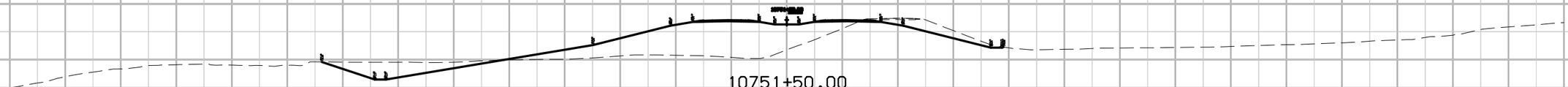


10751+75.00



10751+50.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.465

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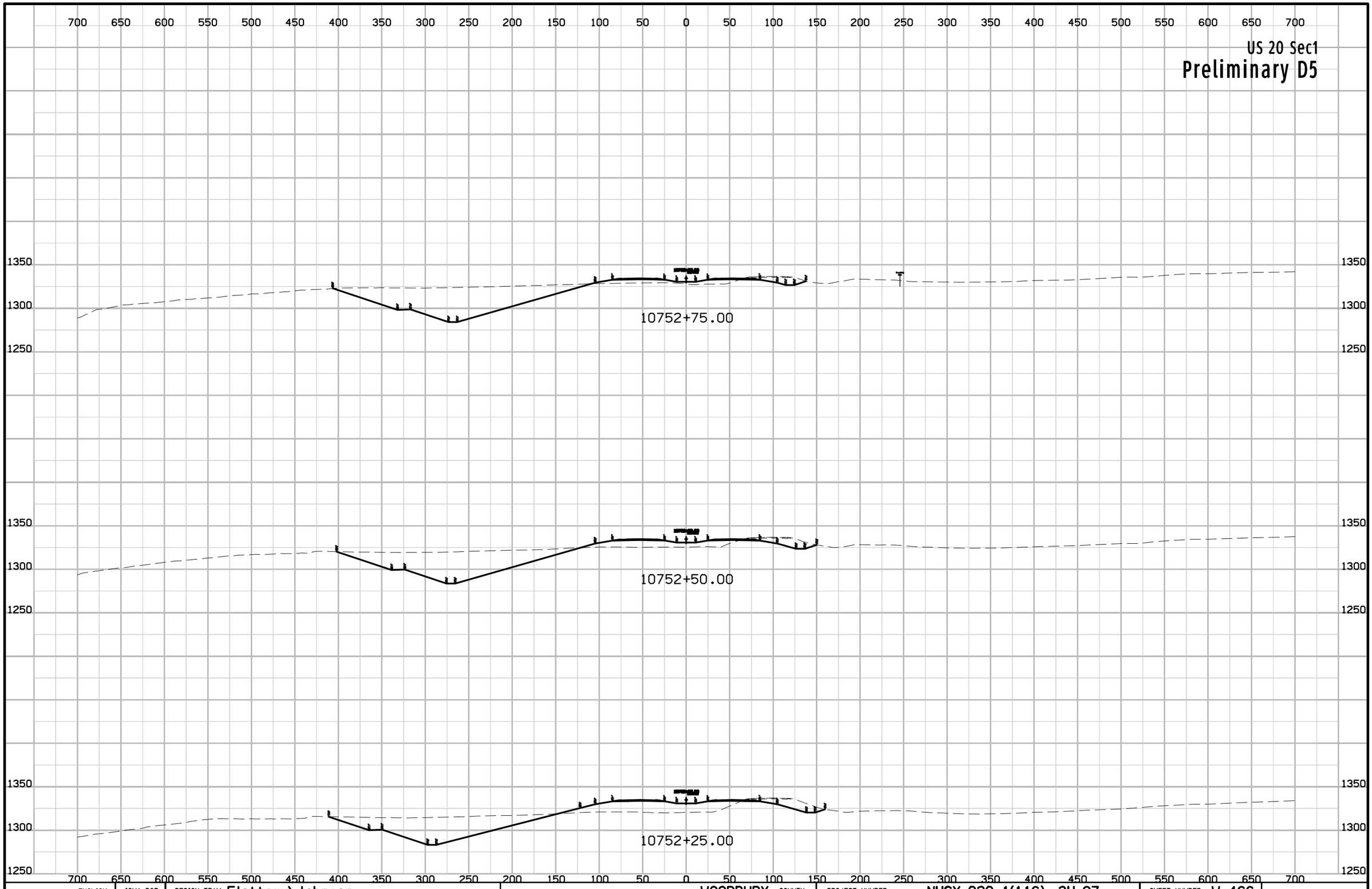
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.466

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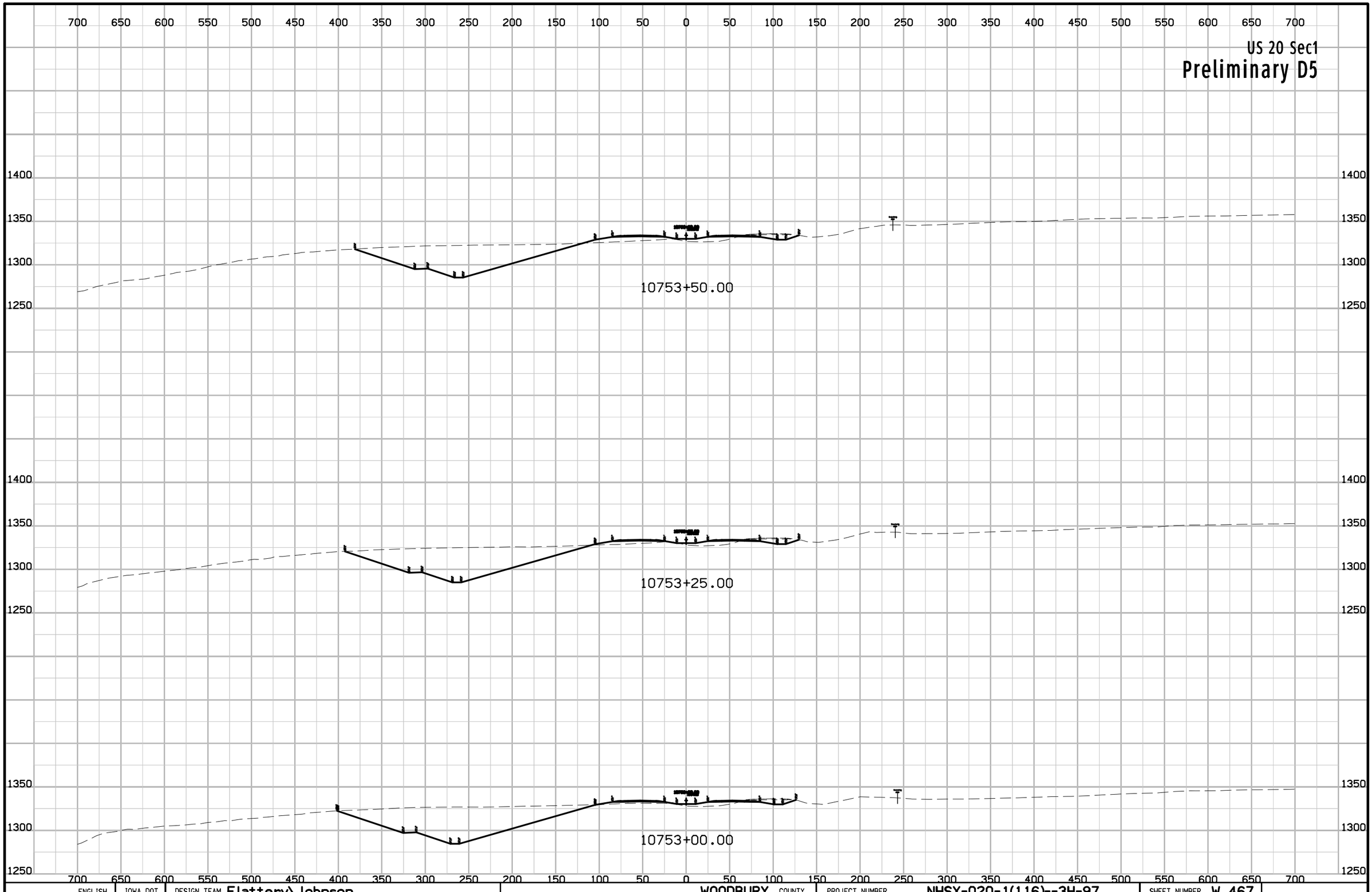
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.467

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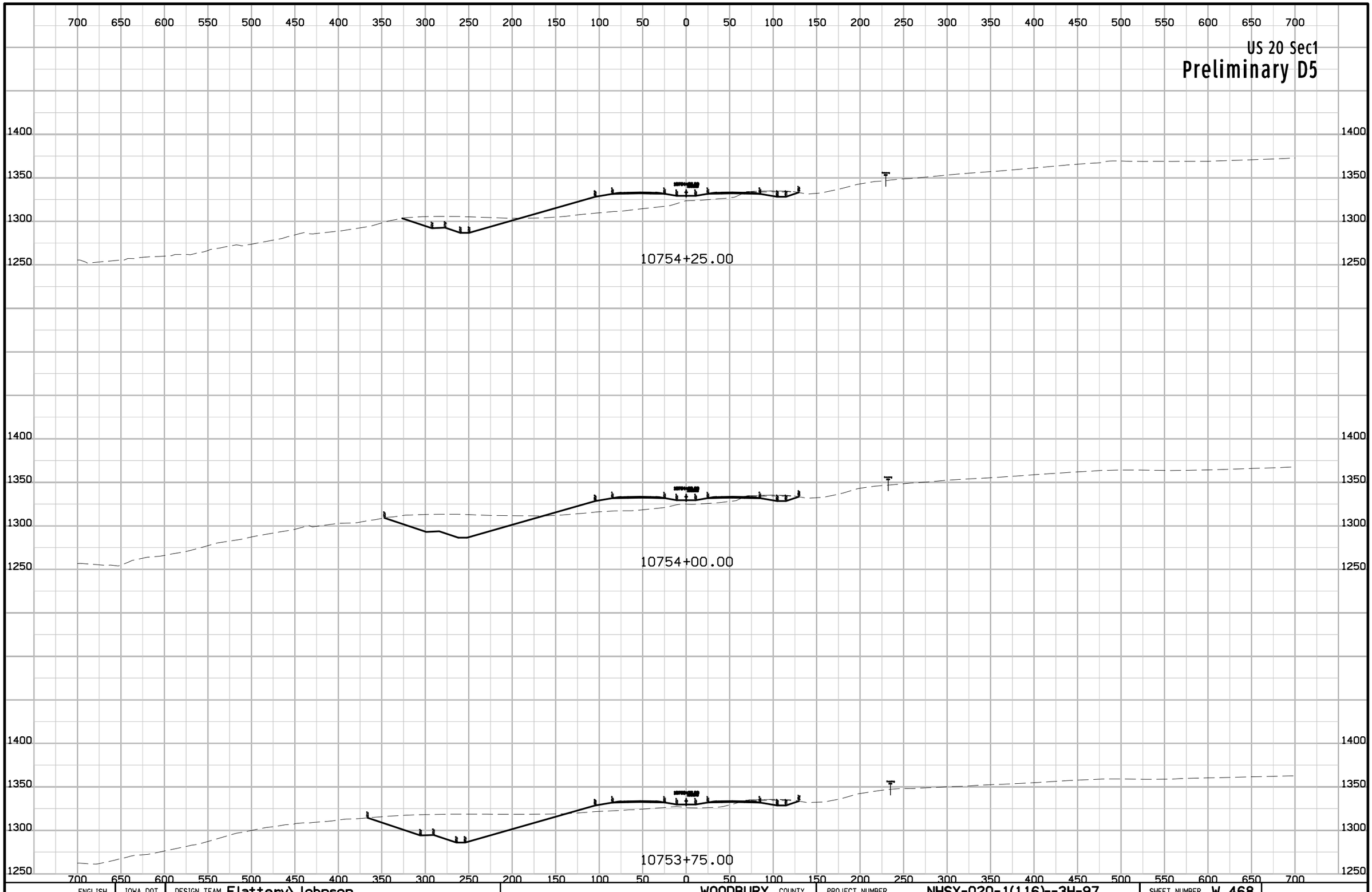
US 20 Sec1

Preliminary D5



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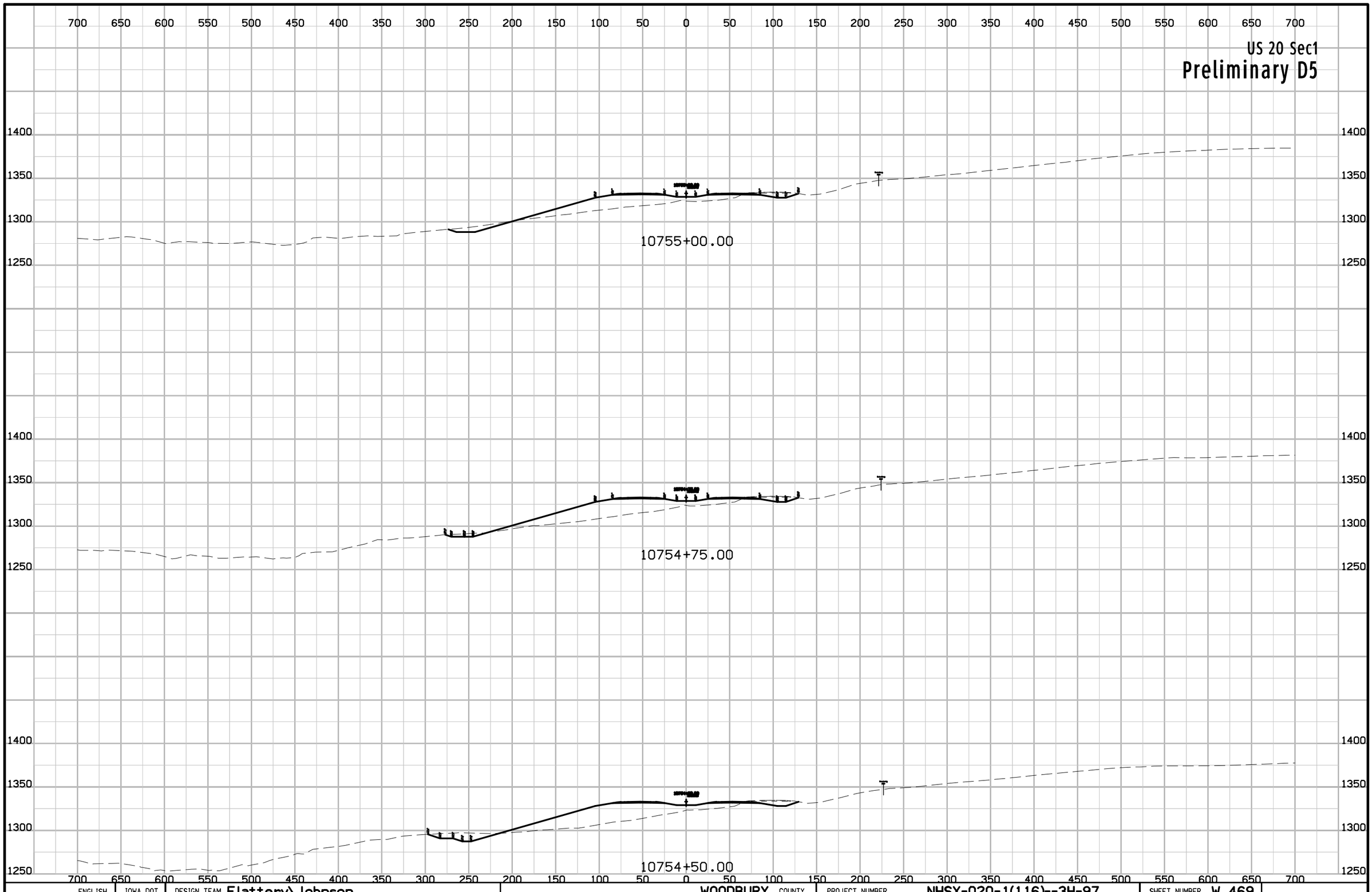
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.469

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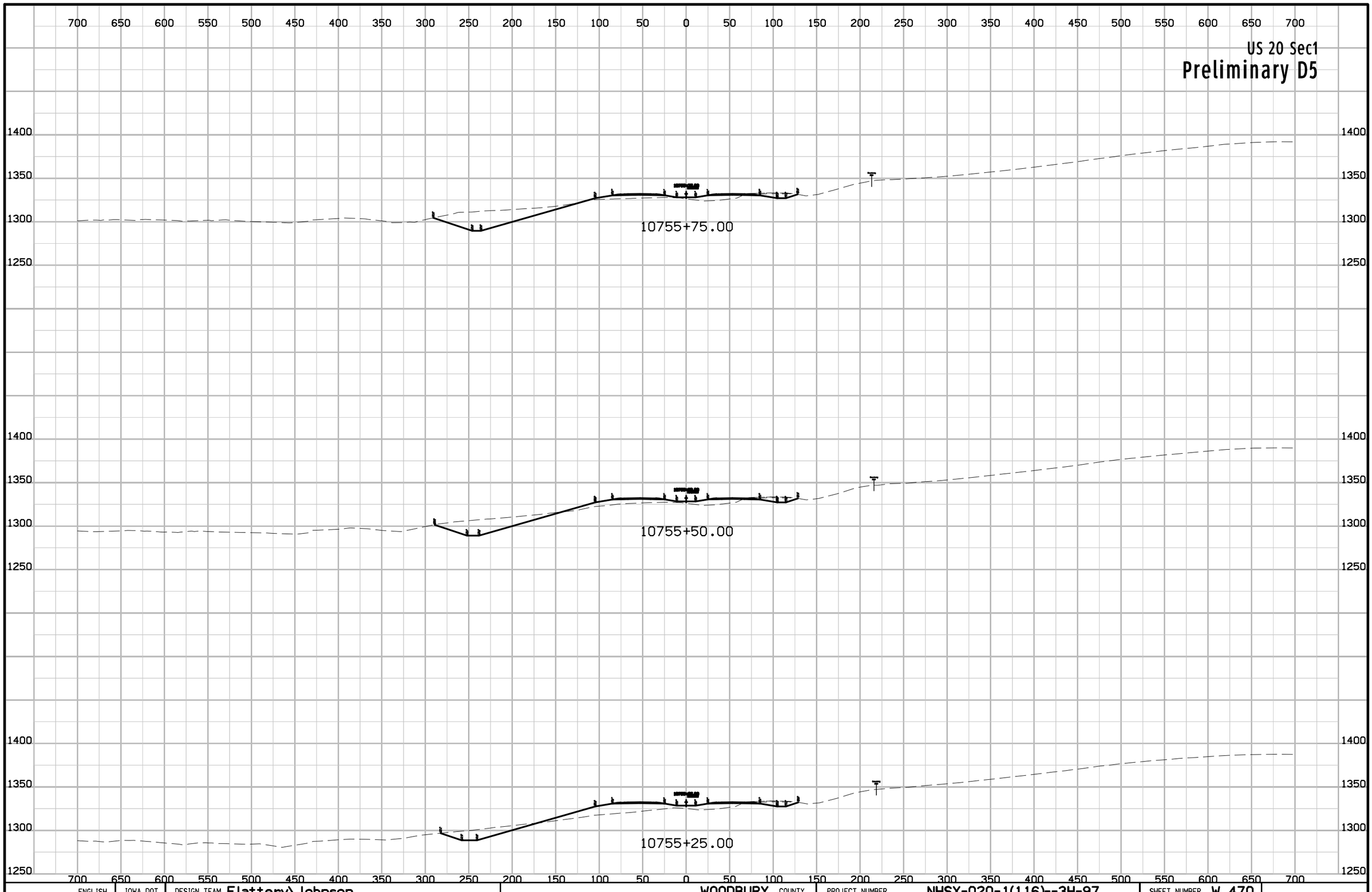
US 20 Sec1

Preliminary D5



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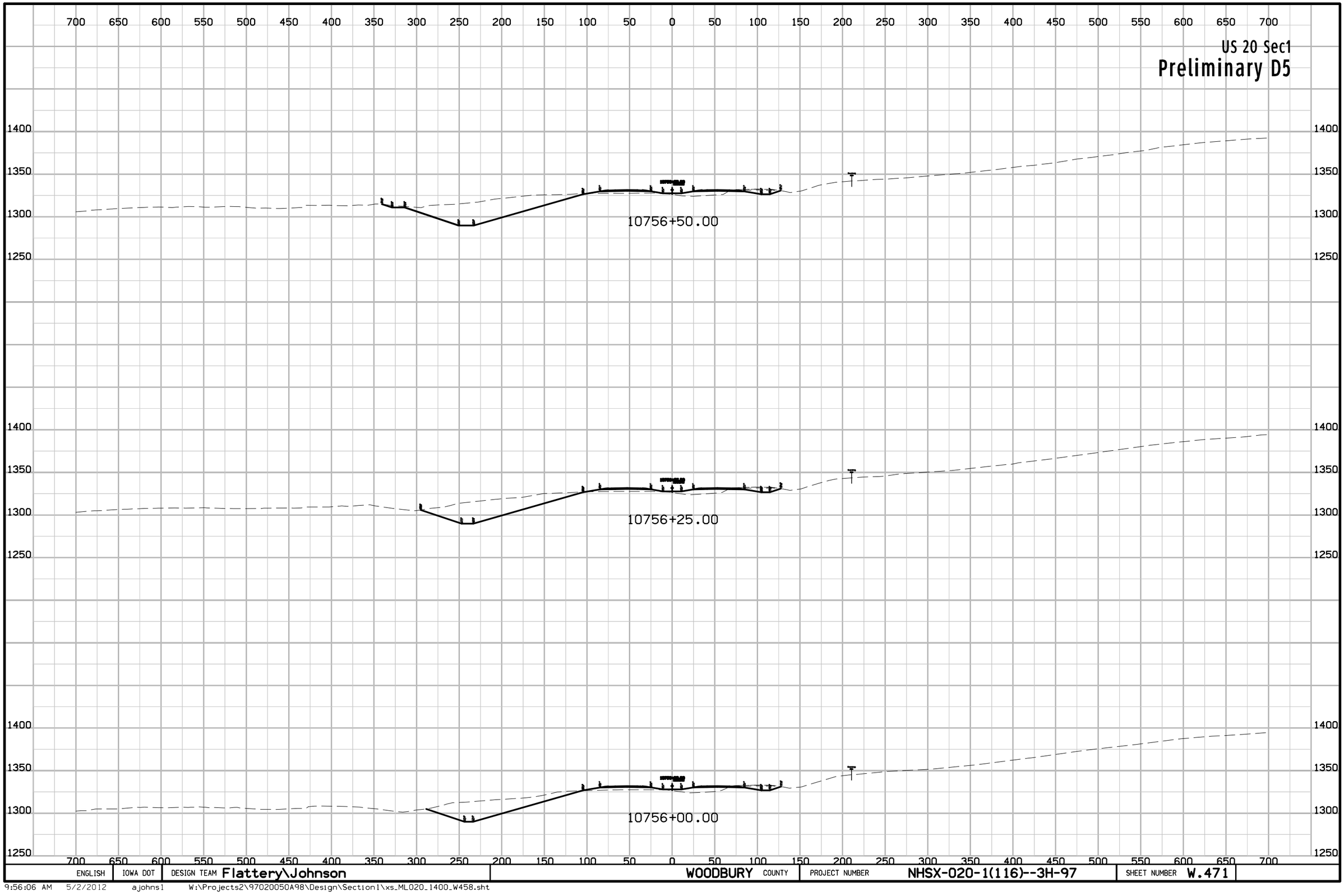
US 20 Sec1

Preliminary D5



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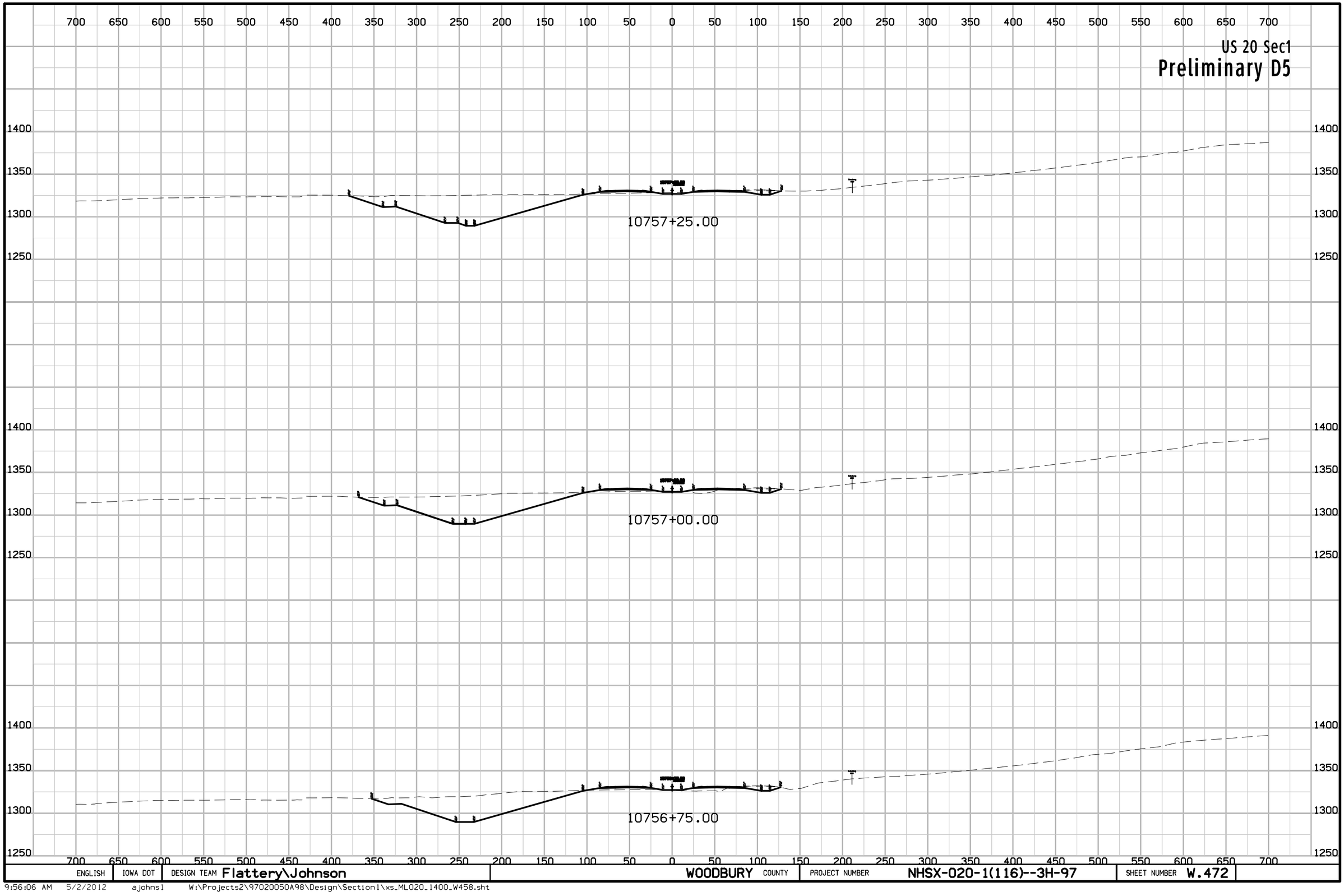
US 20 Sec1

Preliminary D5



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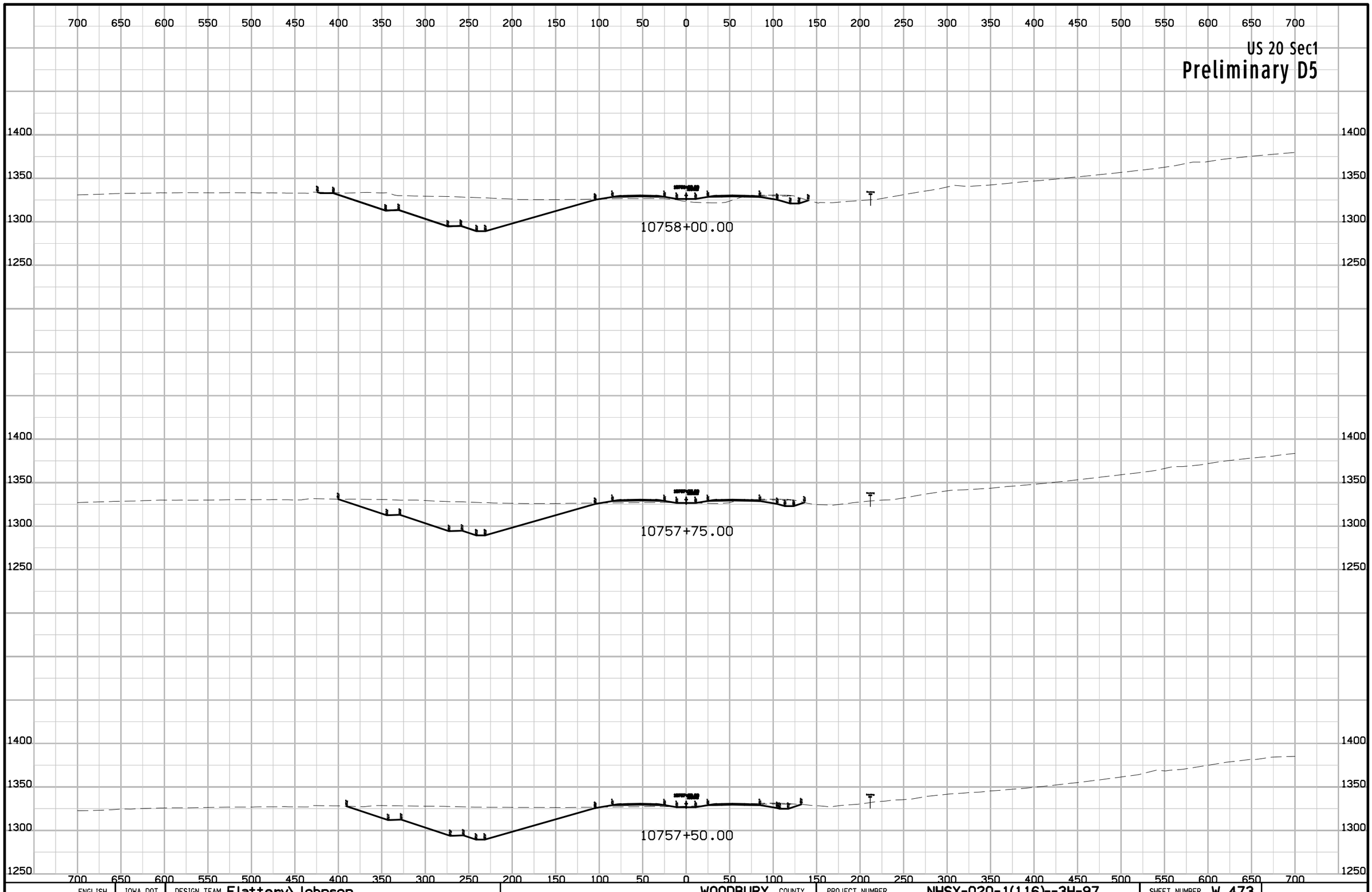
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

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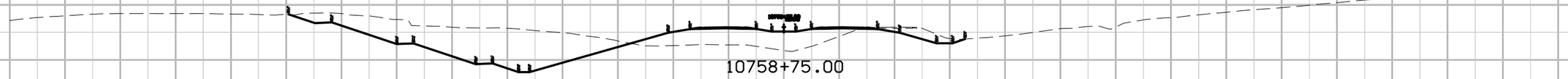
1300
1250



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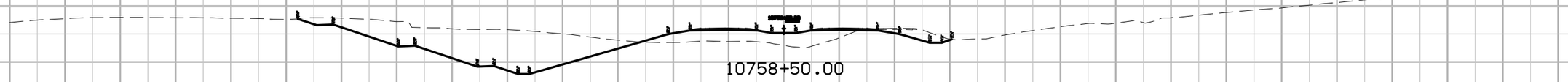
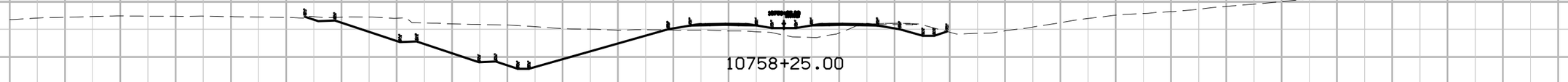


10758+50.00



10758+25.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.474

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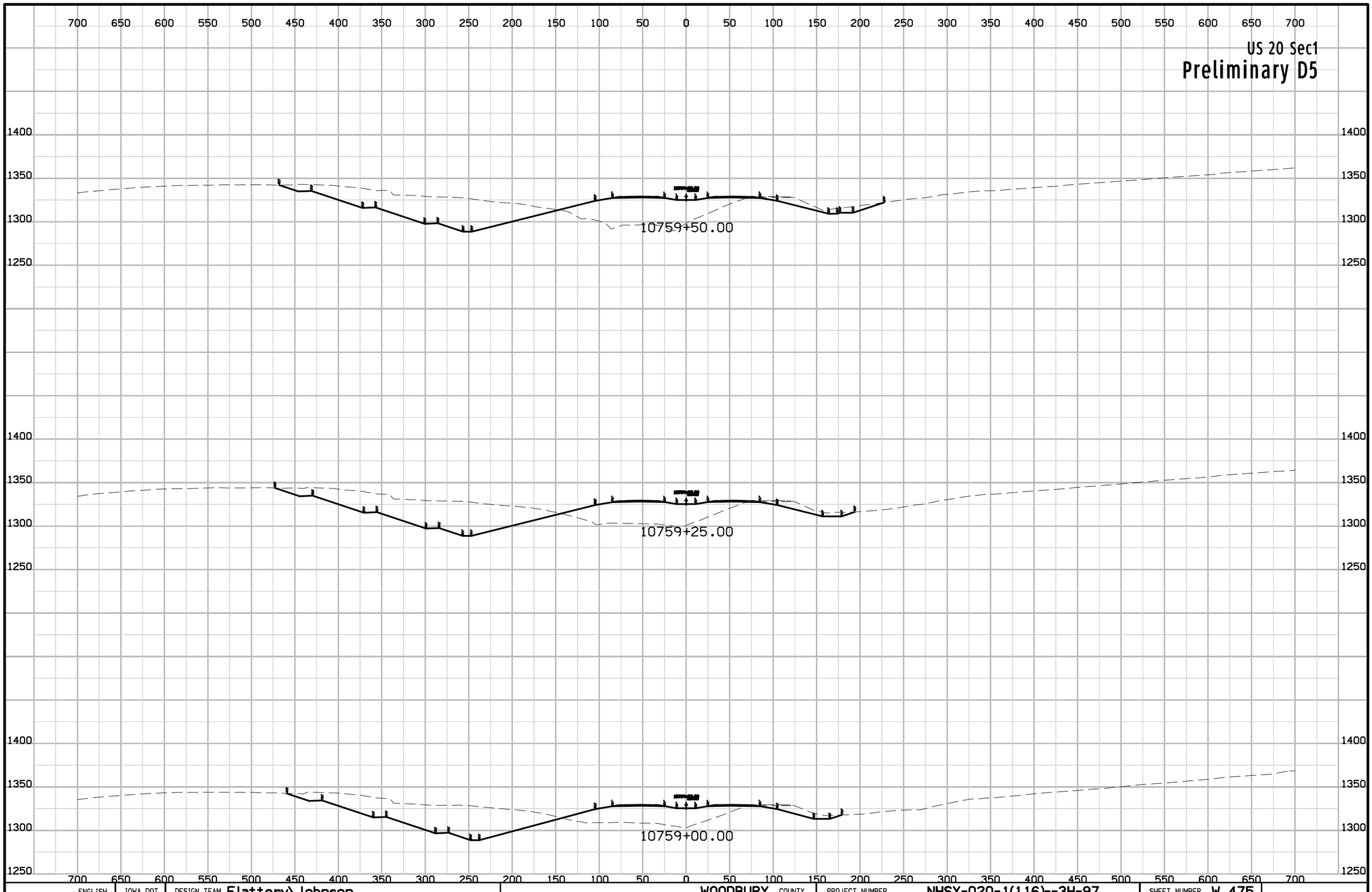
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.475

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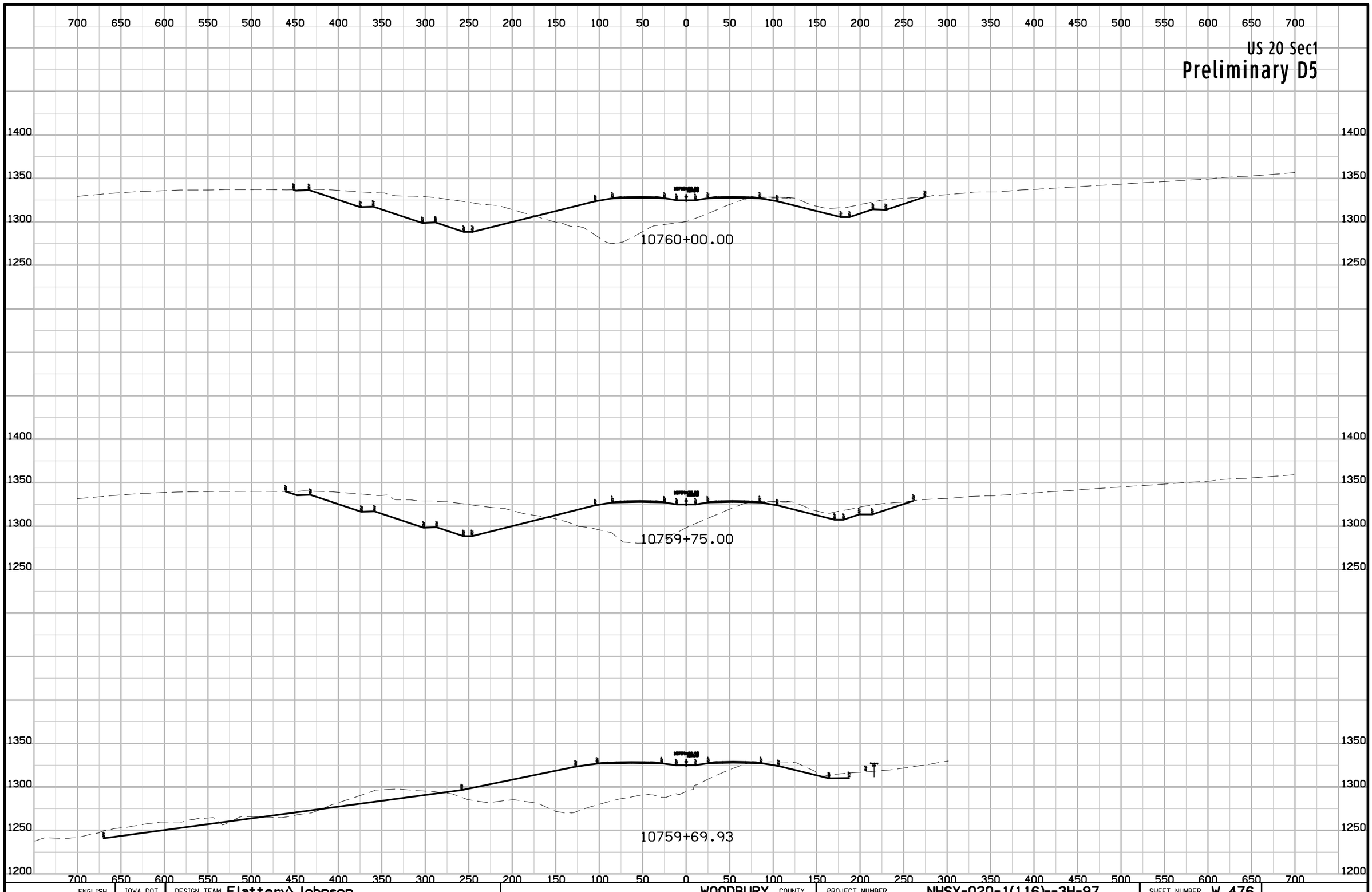
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.476

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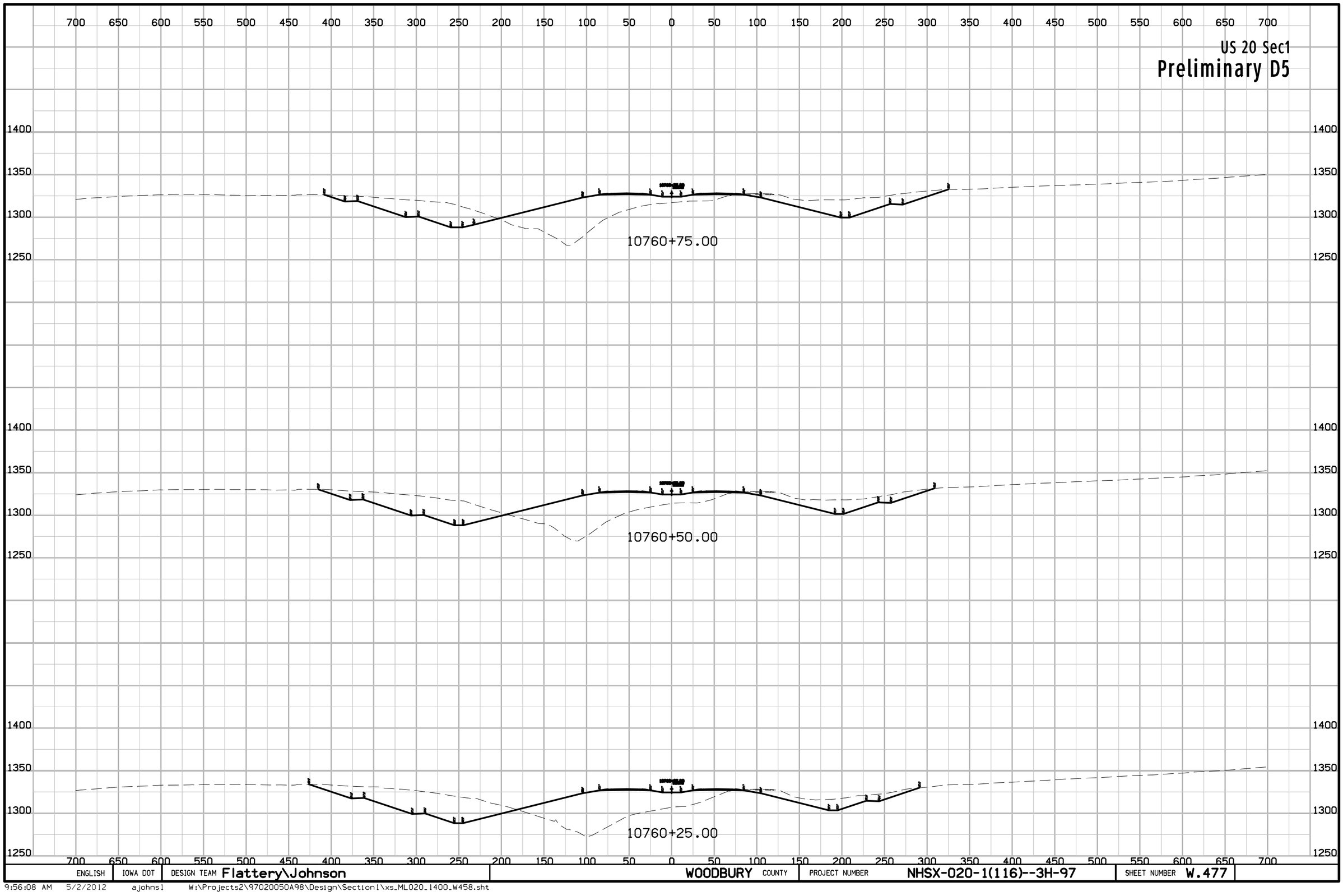
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.477

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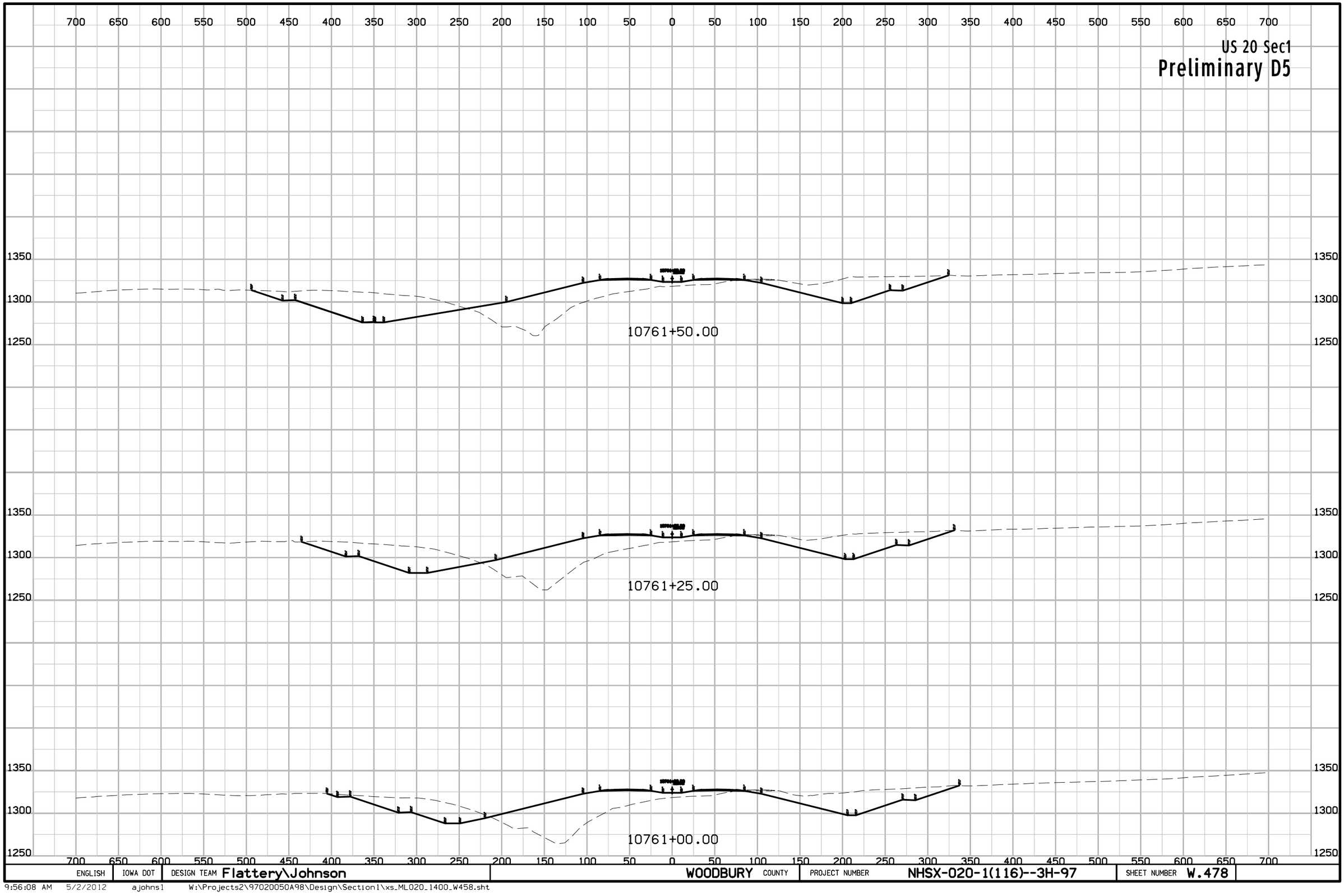
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.478

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US 20 Sec1

Preliminary D5

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1350
1300
1250

10762+00.00

10761+75.00

10761+70.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.479

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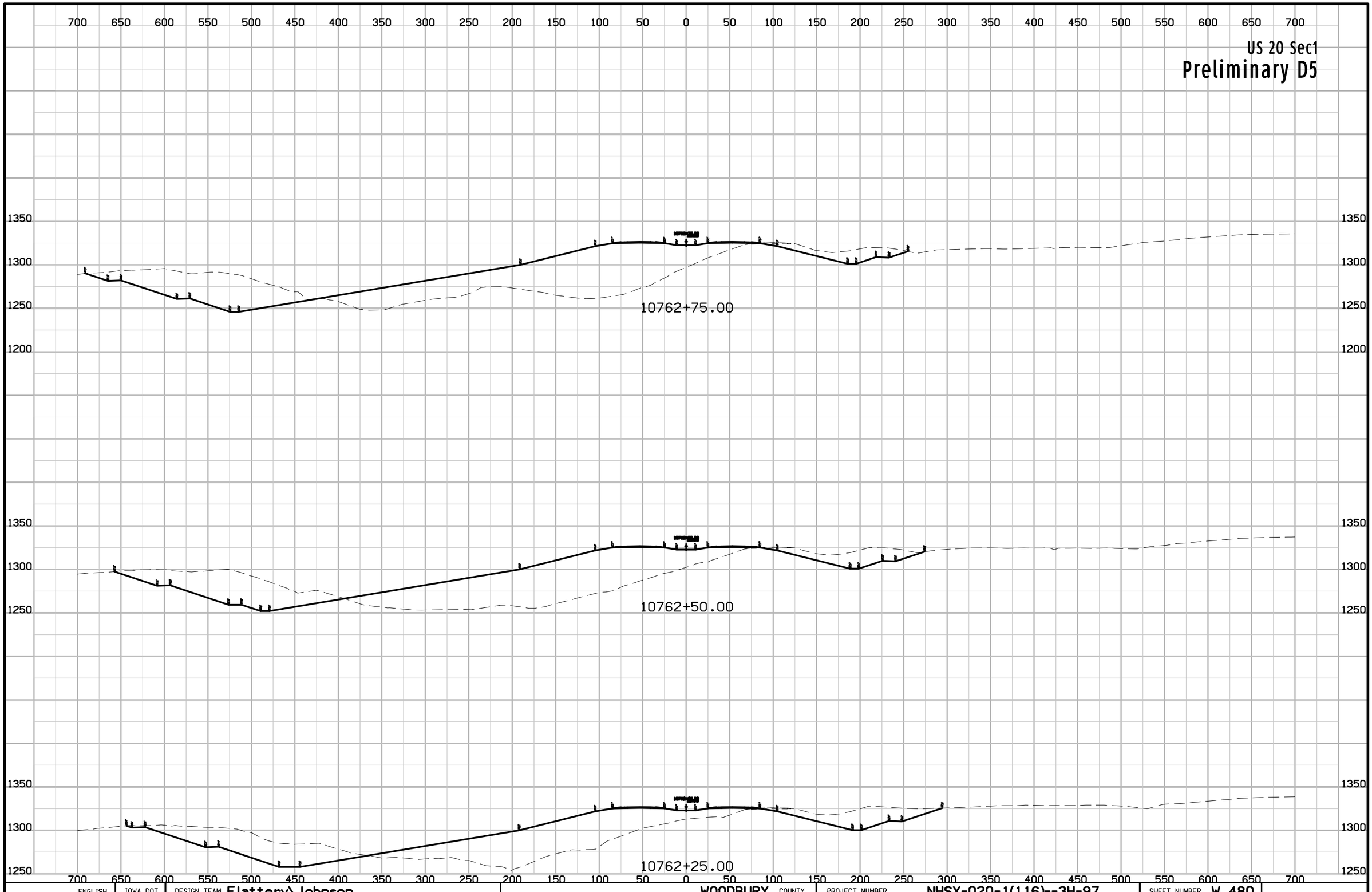
US 20 Sec1

Preliminary D5



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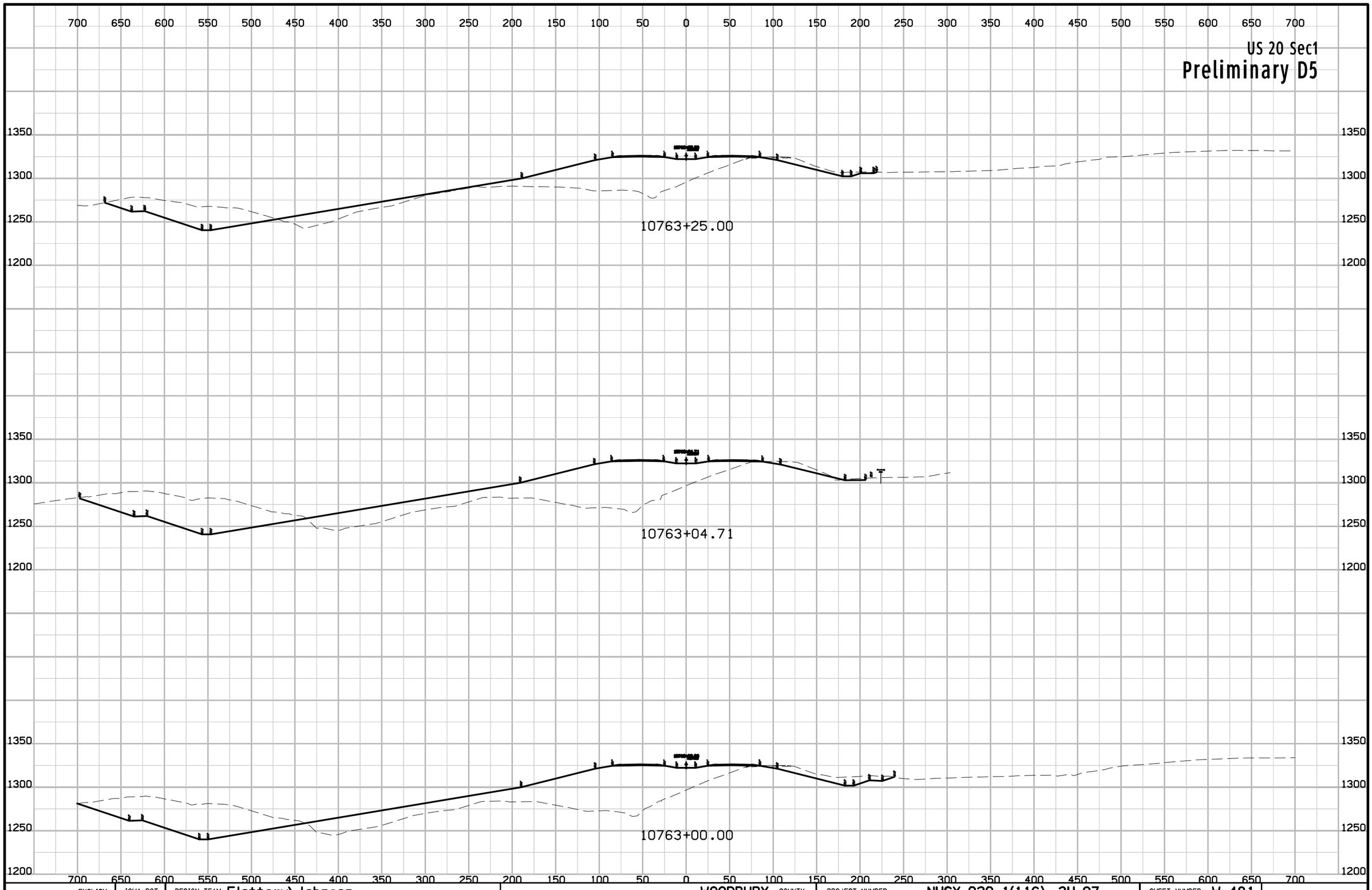
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.481

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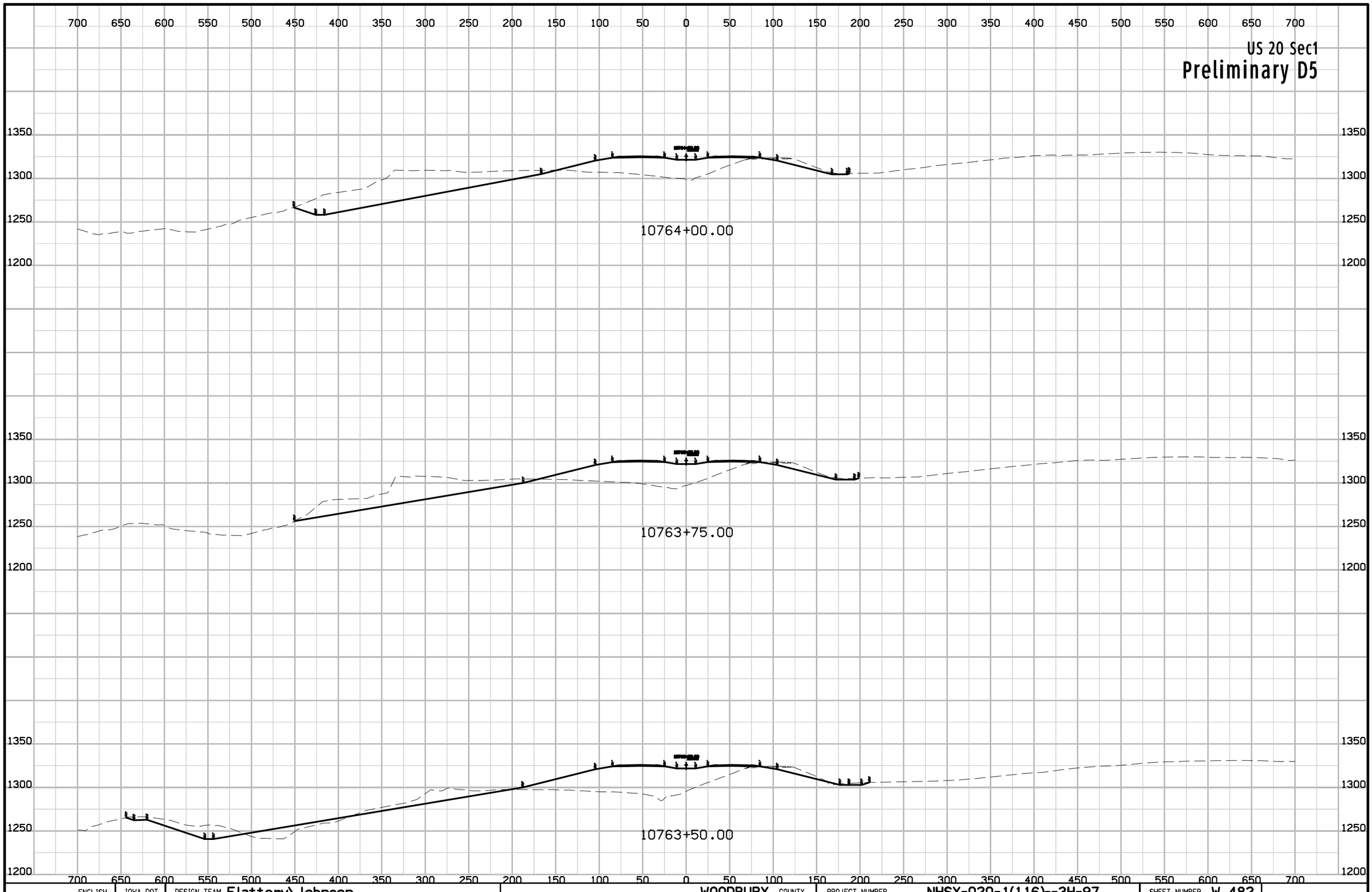
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.482

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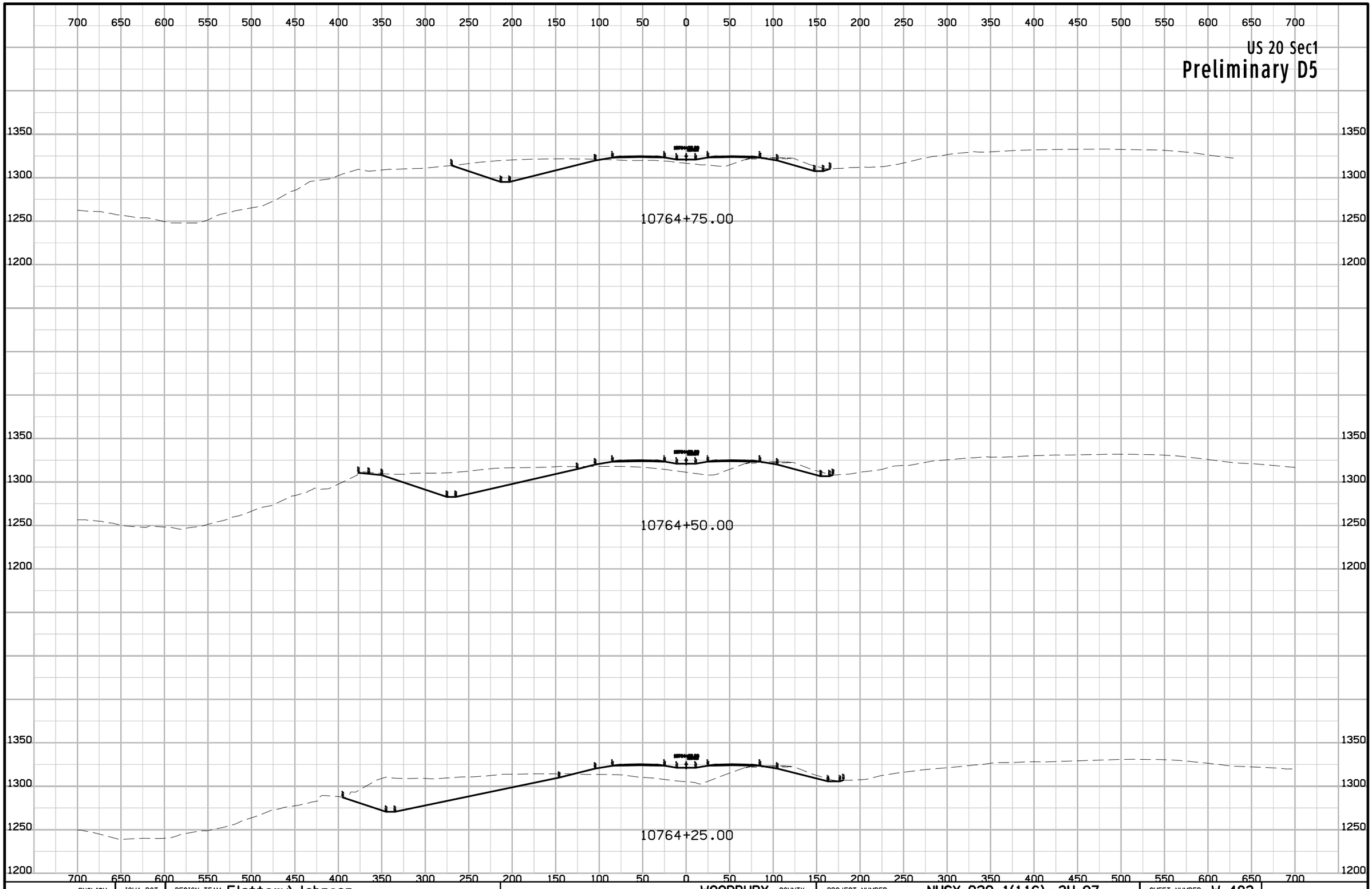
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

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1300
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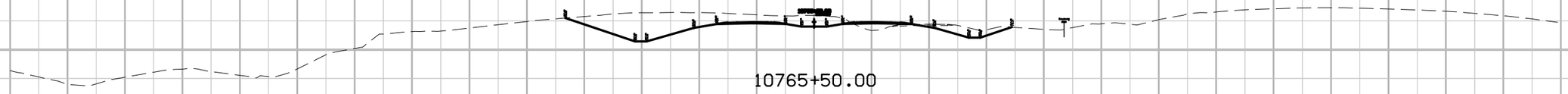
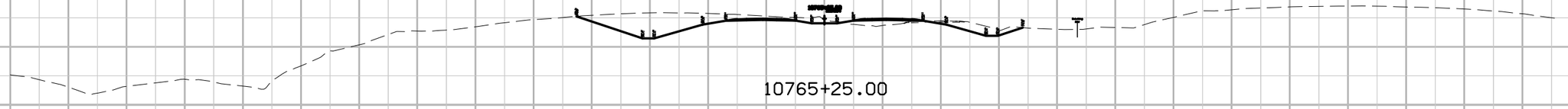
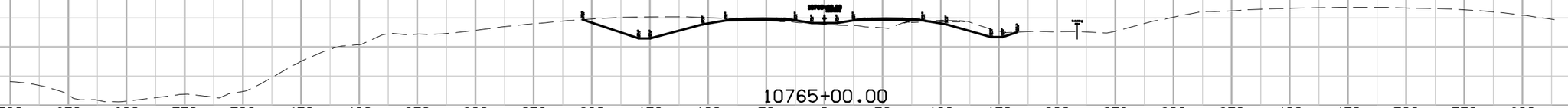


10765+50.00



10765+25.00



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ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.484

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US 20 Sec1

Preliminary D5

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1300
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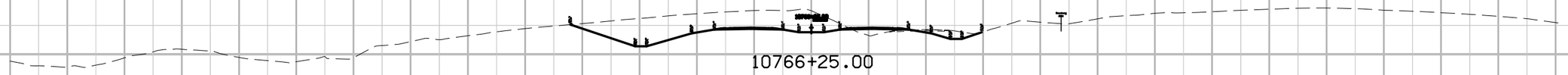

10766+25.00

10766+00.00

10765+75.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.485

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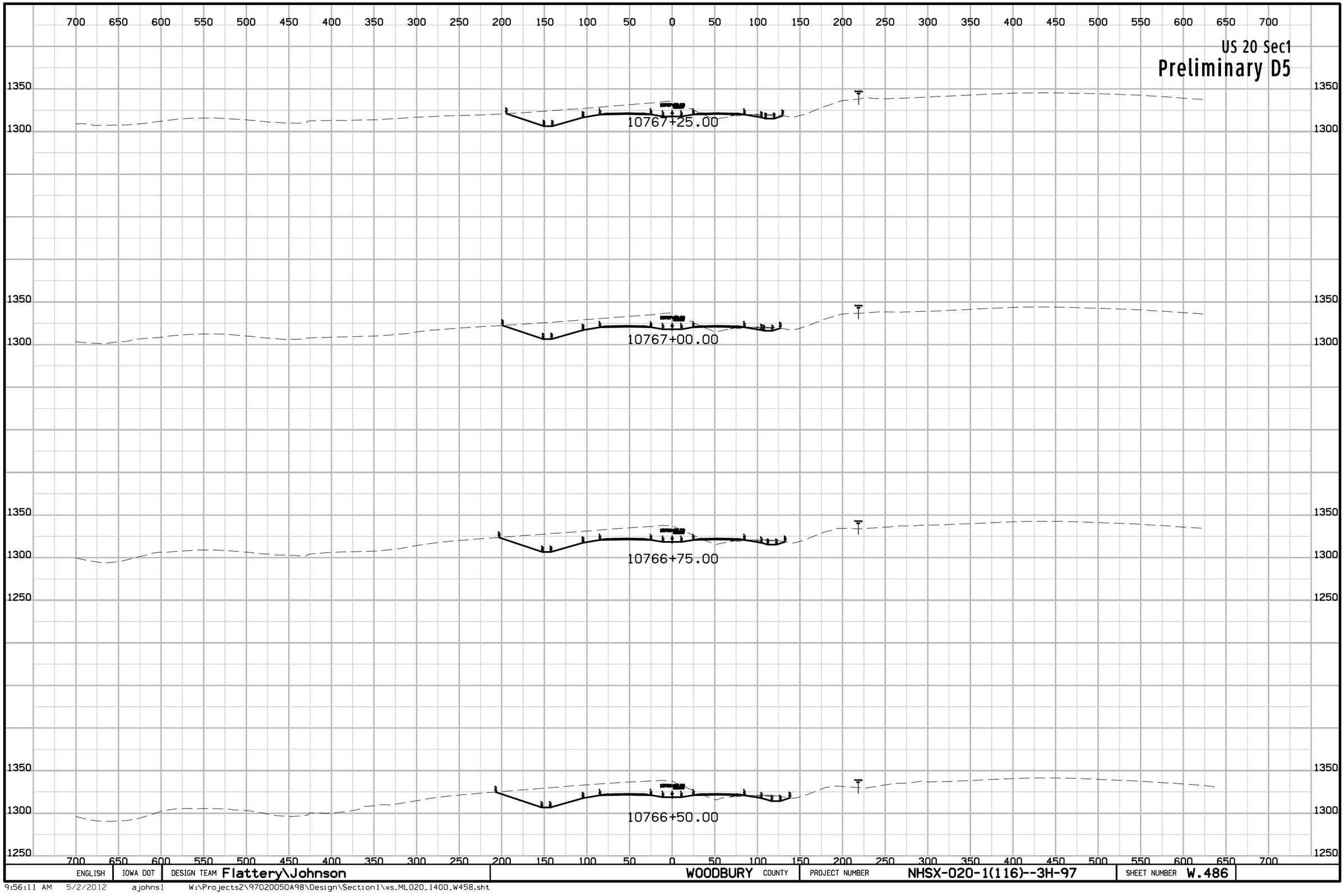
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.486

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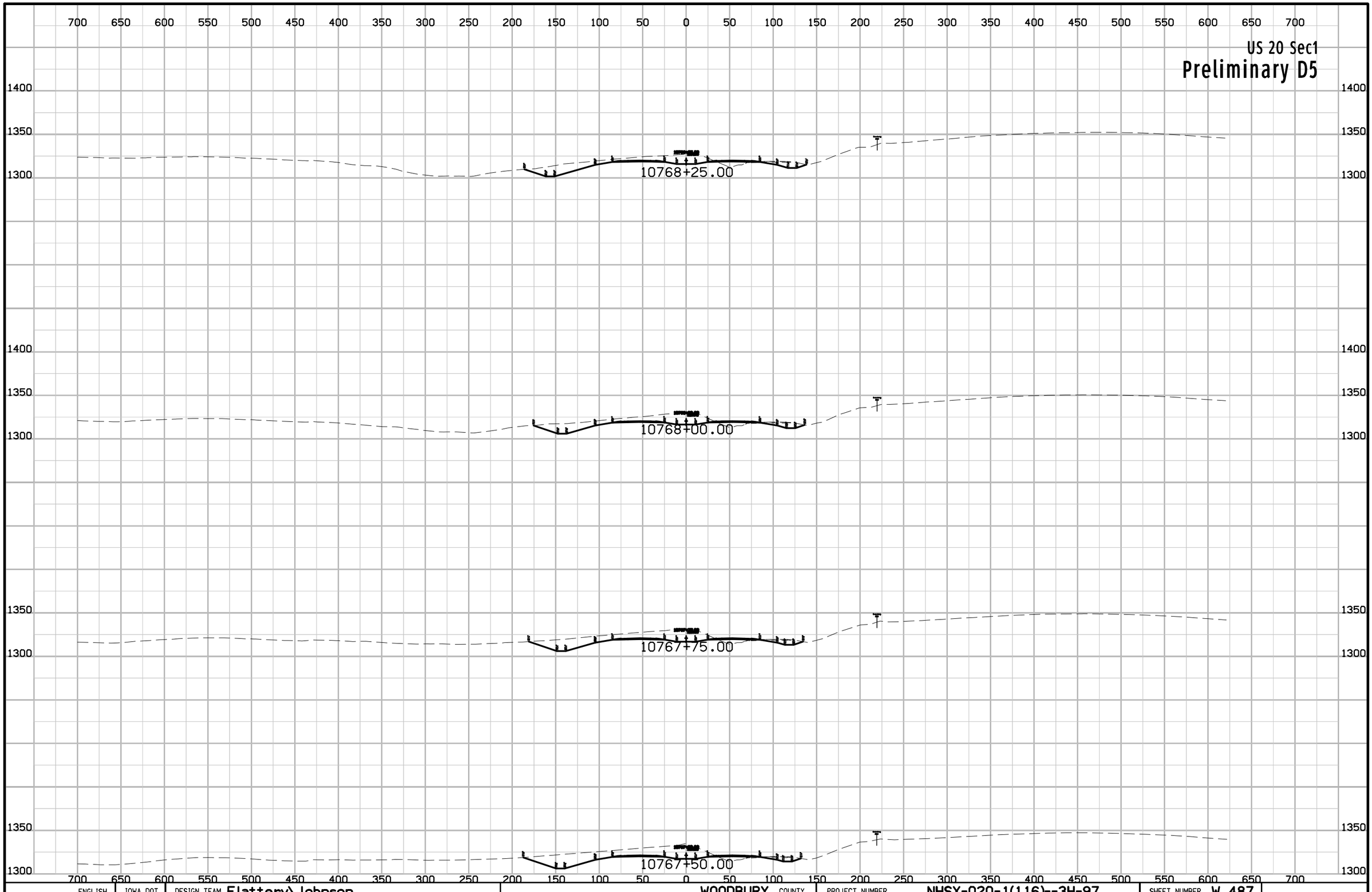
US 20 Sec1

Preliminary D5



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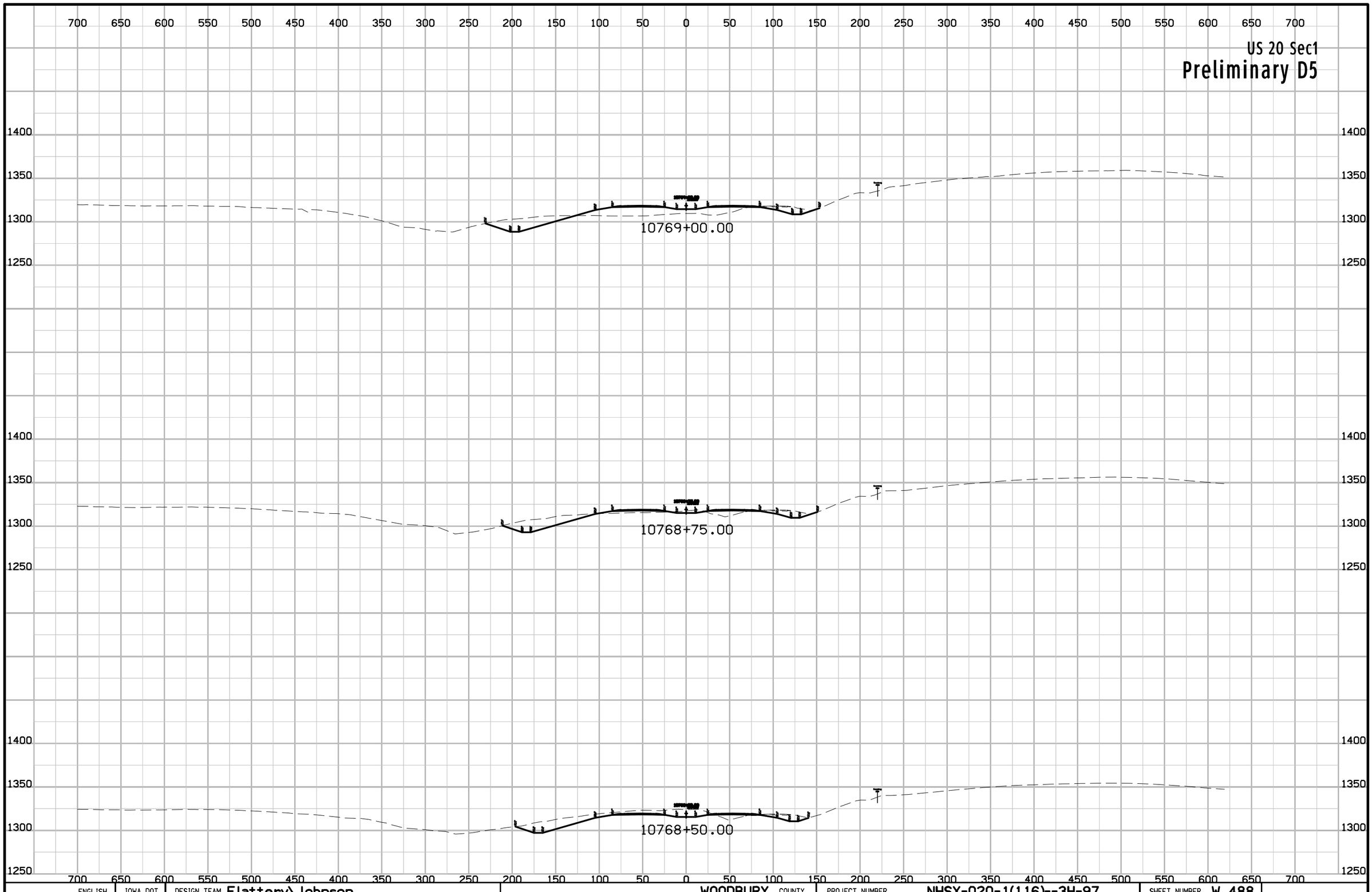
US 20 Sec1

Preliminary D5



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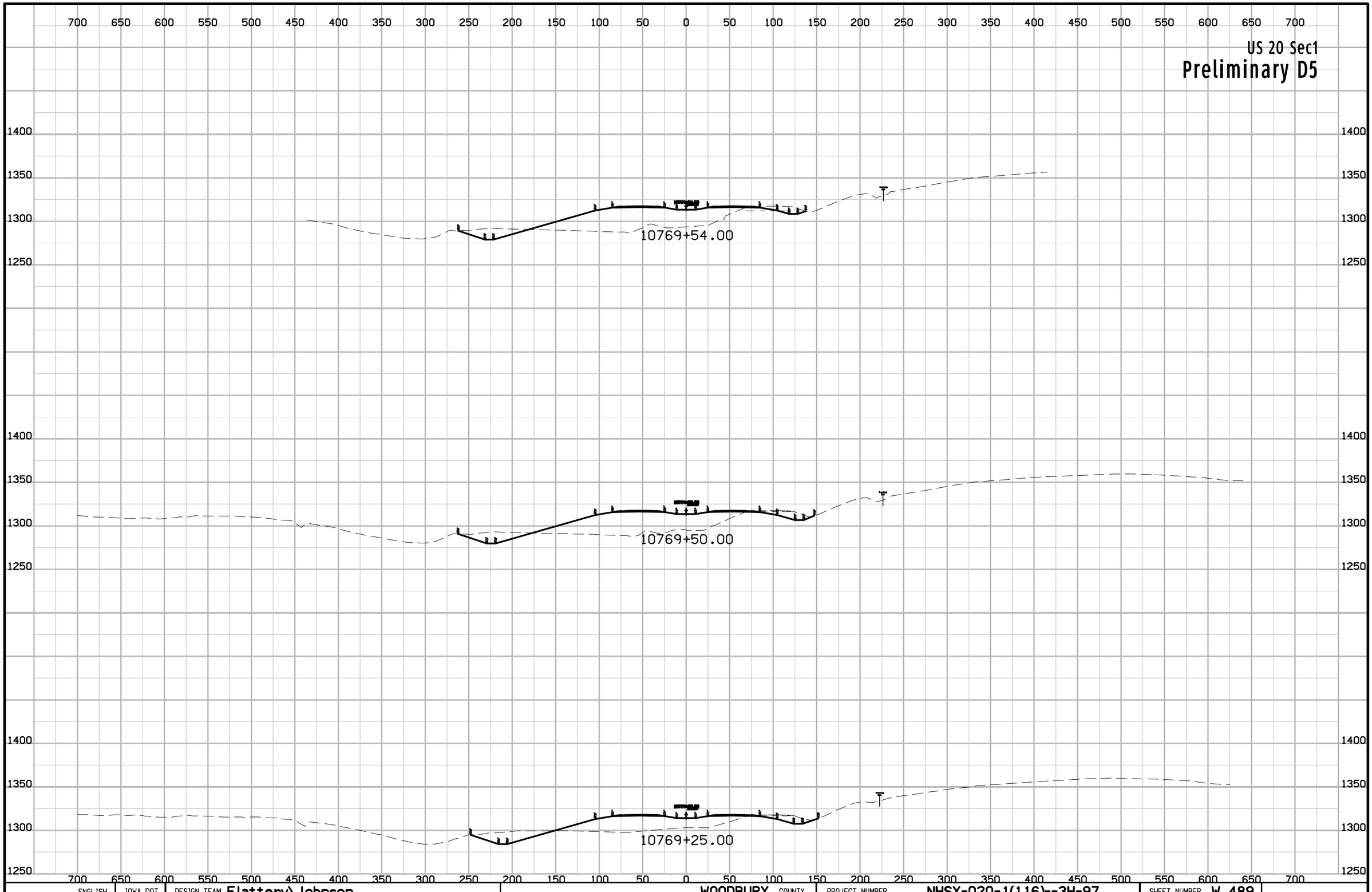
US 20 Sec1

Preliminary D5



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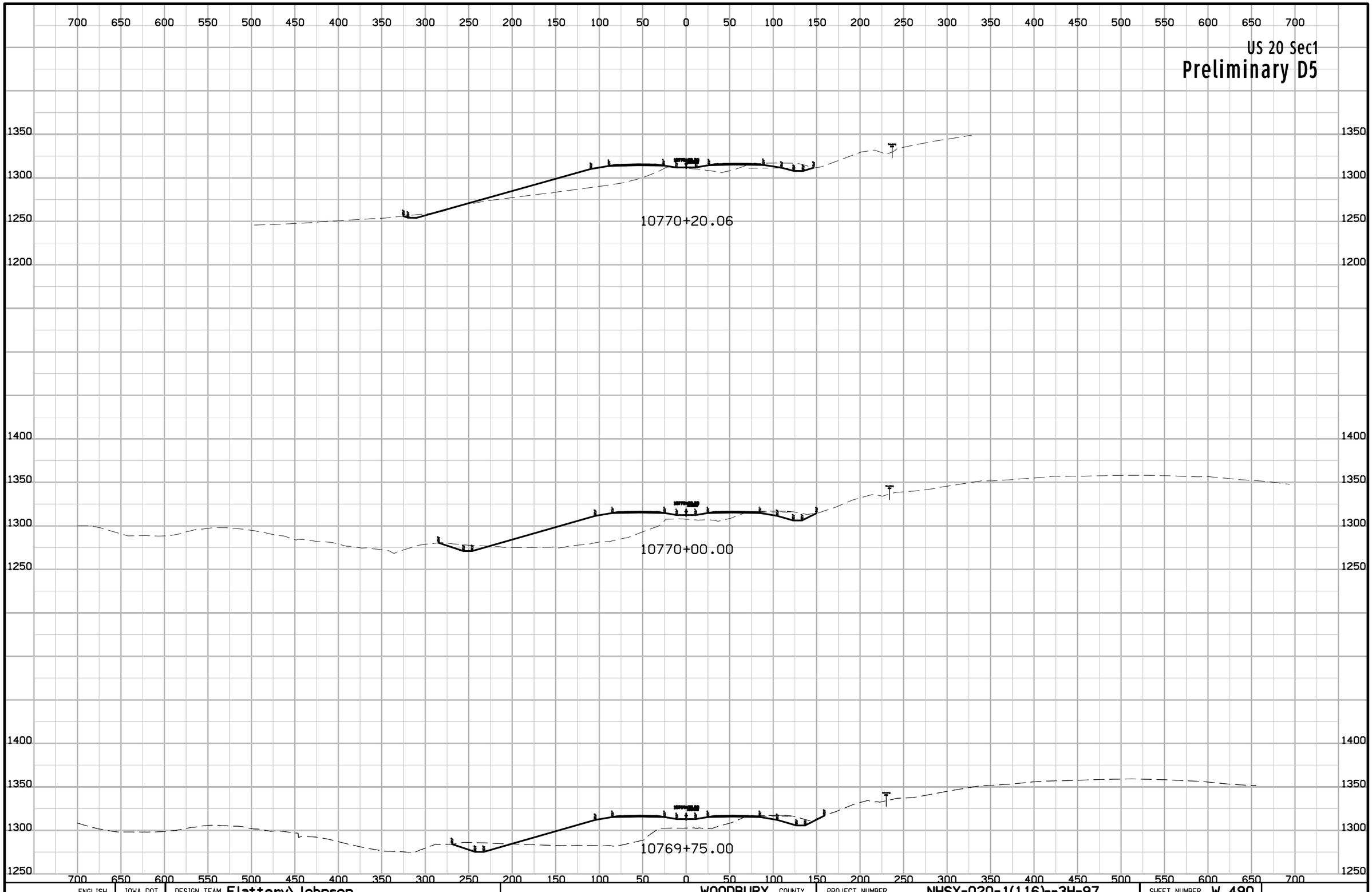
US 20 Sec1

Preliminary D5



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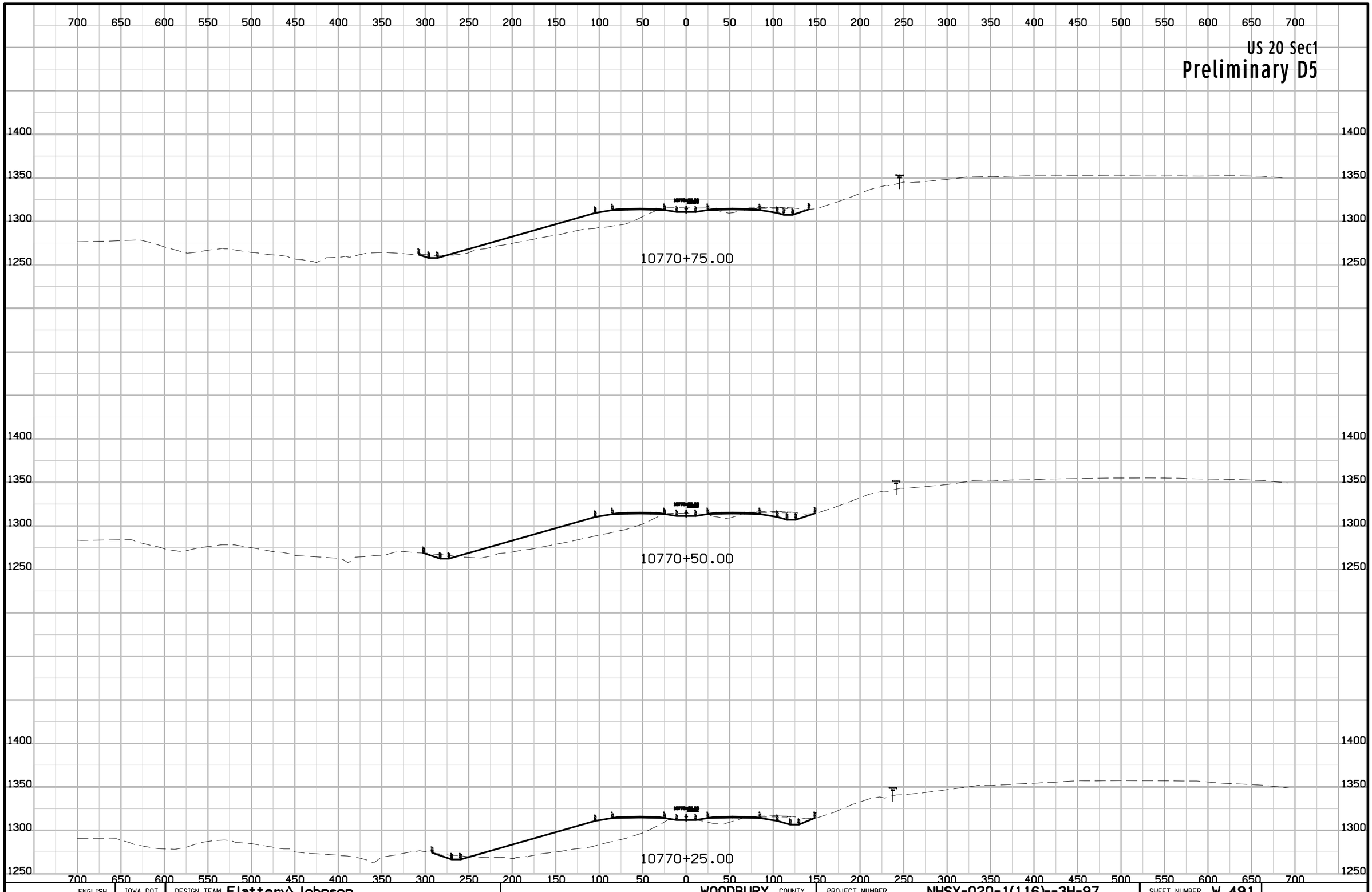
US 20 Sec1

Preliminary D5



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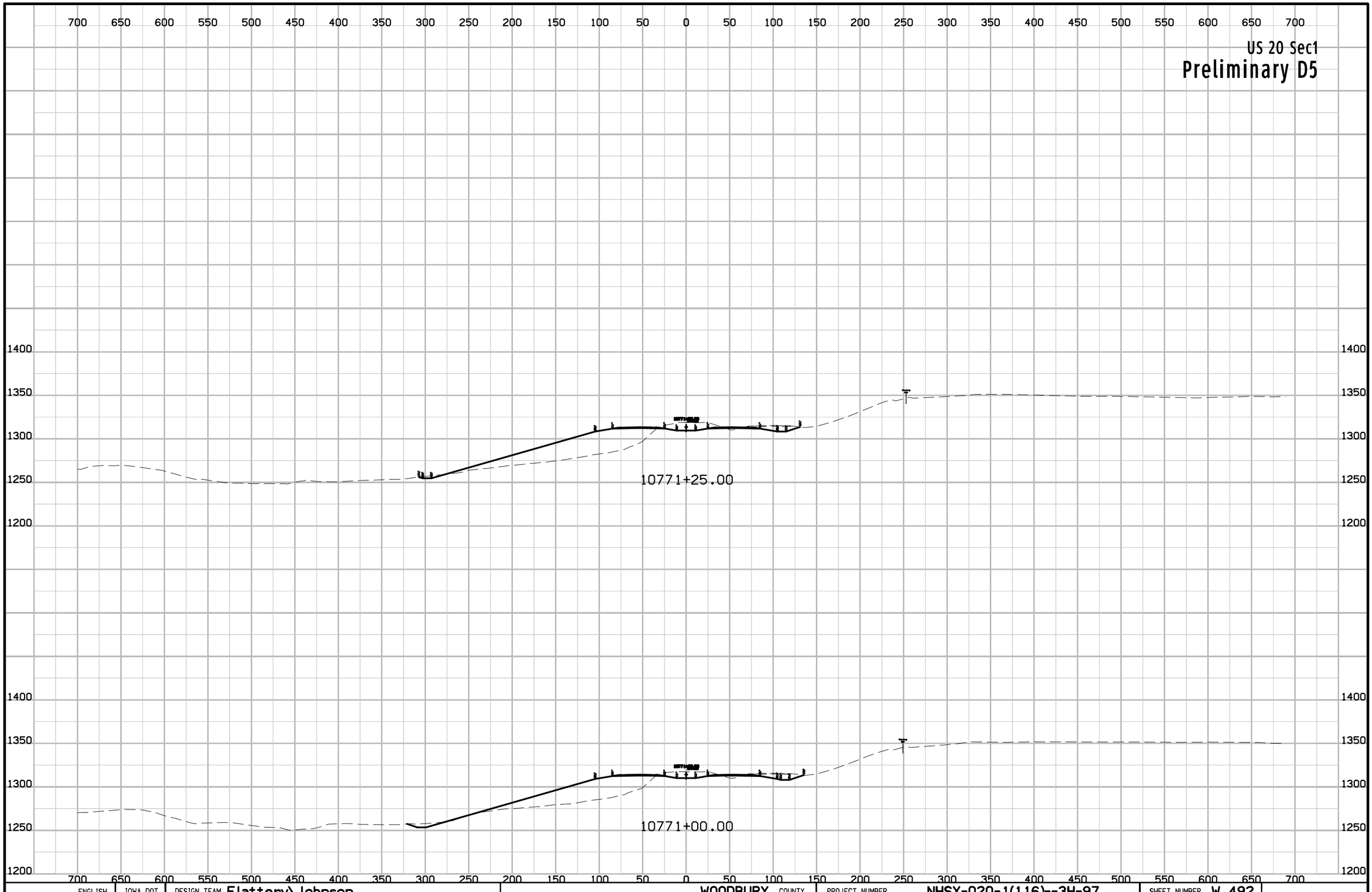
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.492

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US 20 Sec1

Preliminary D5

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1400
1350
1300
1250
1200

10771+75.00

10771+50.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.493

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US 20 Sec1

Preliminary D5

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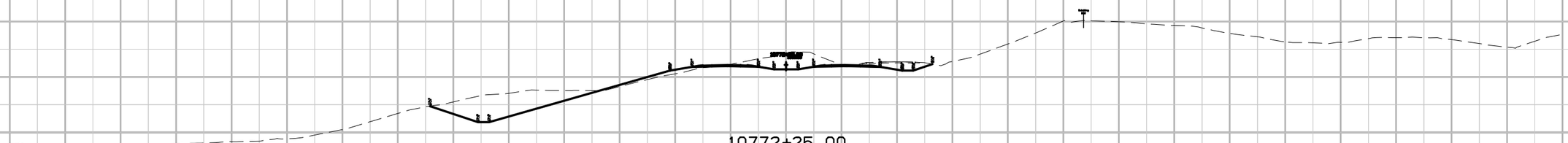
1200



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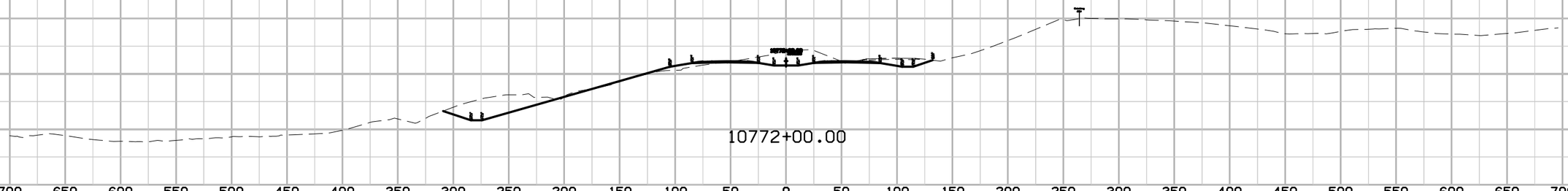

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ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.494

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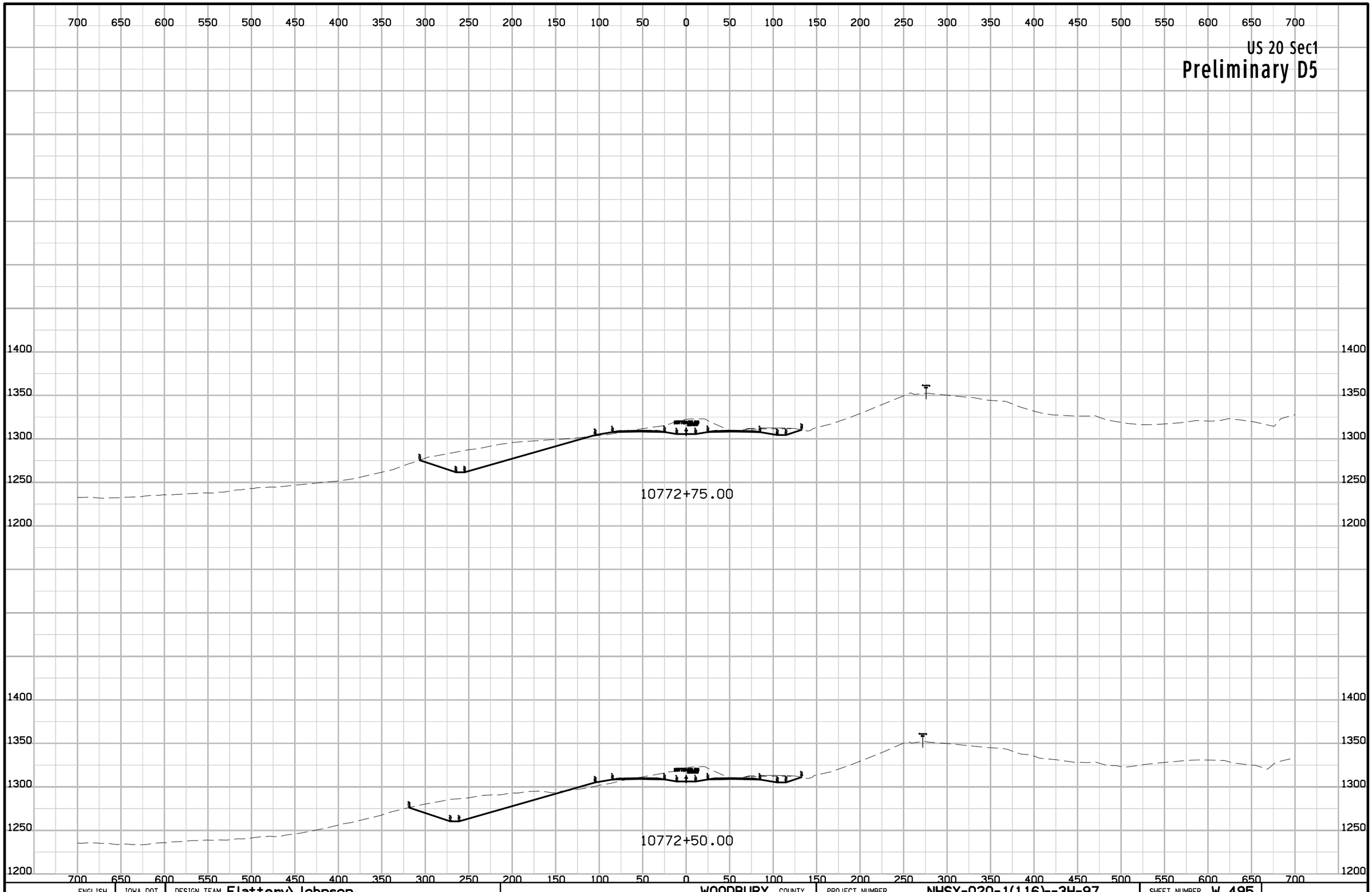
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.495

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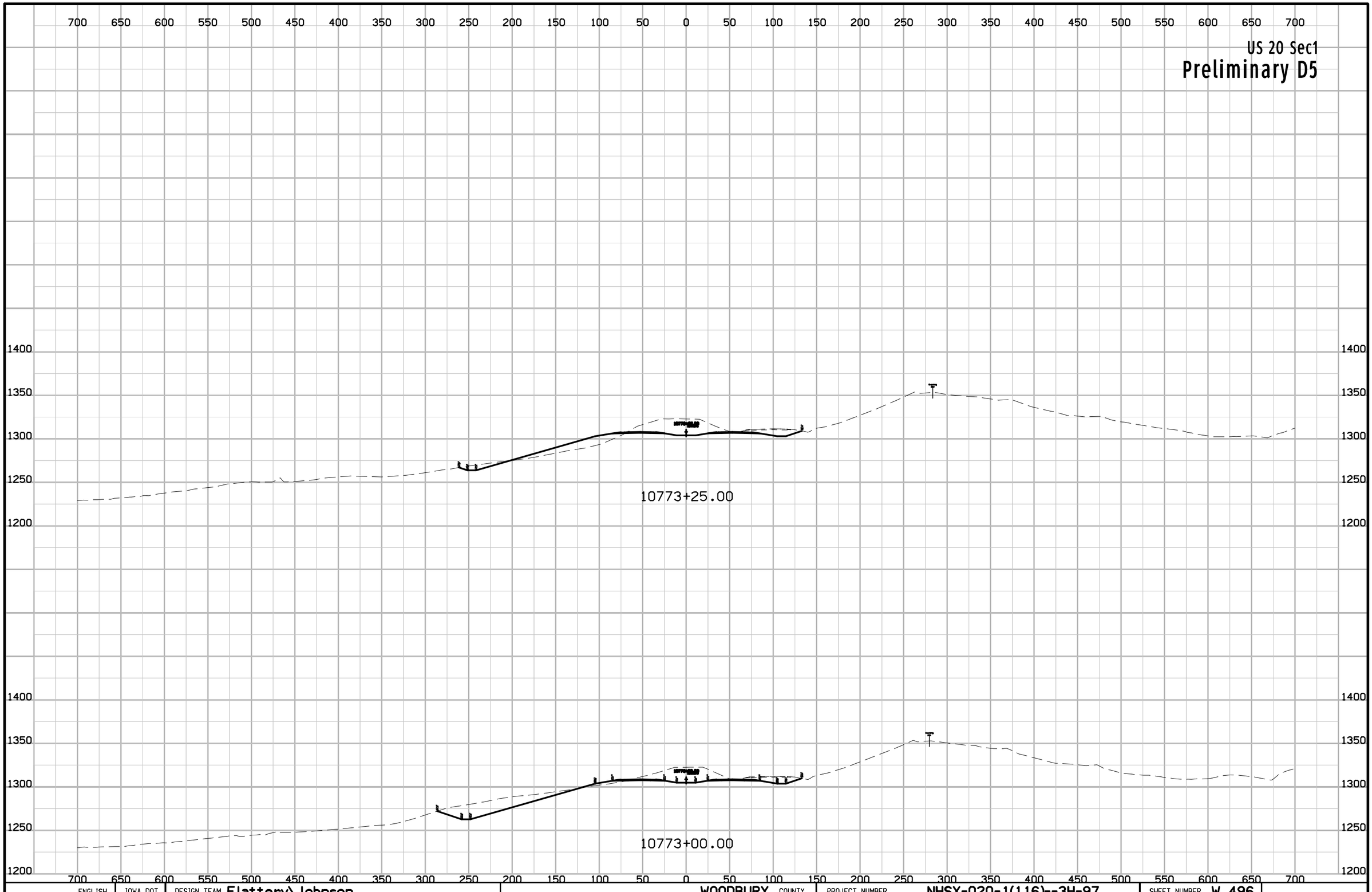
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

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1350
1300
1250
1200

10773+75.00

10773+50.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.497

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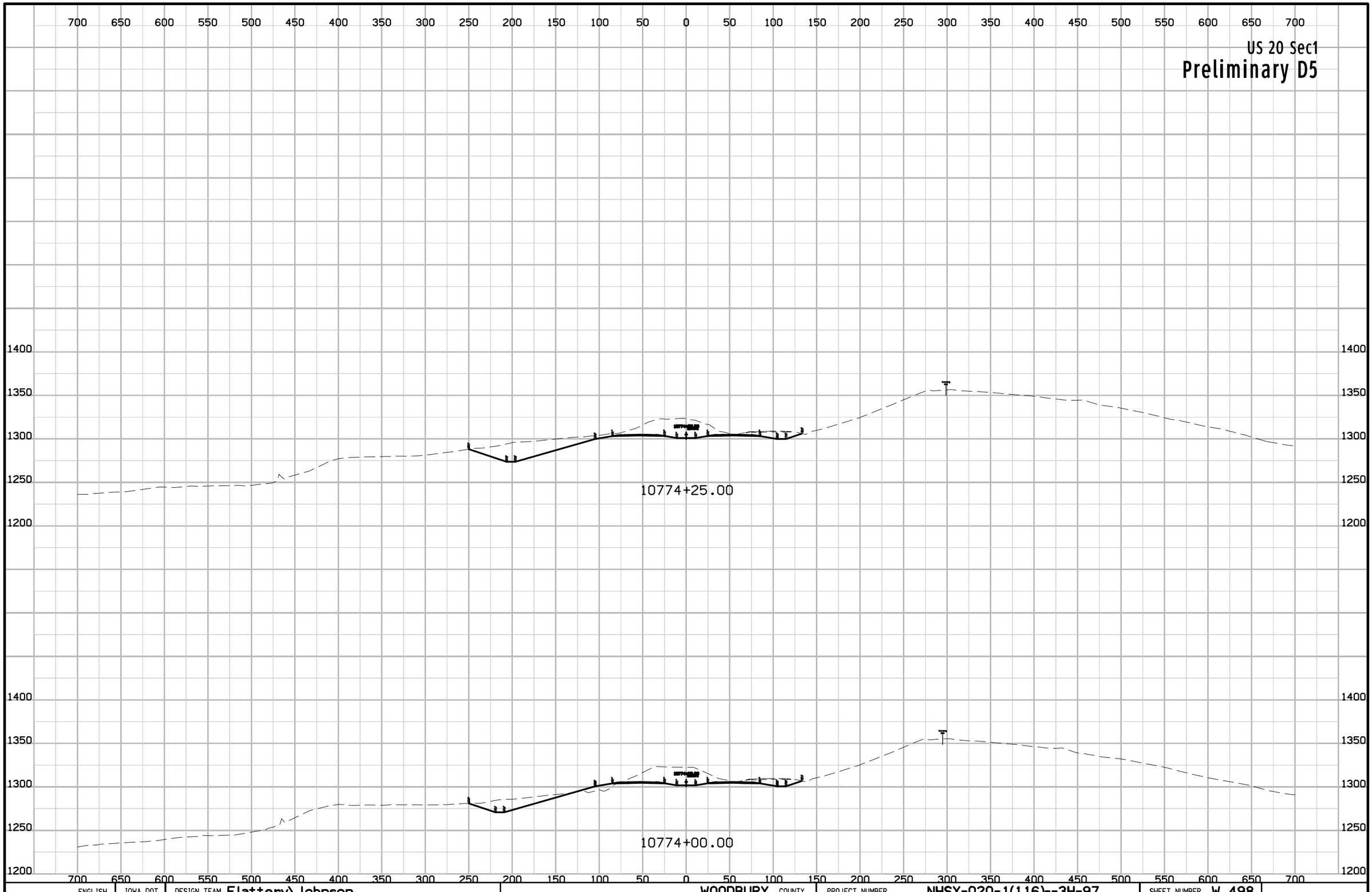
US 20 Sec1

Preliminary D5



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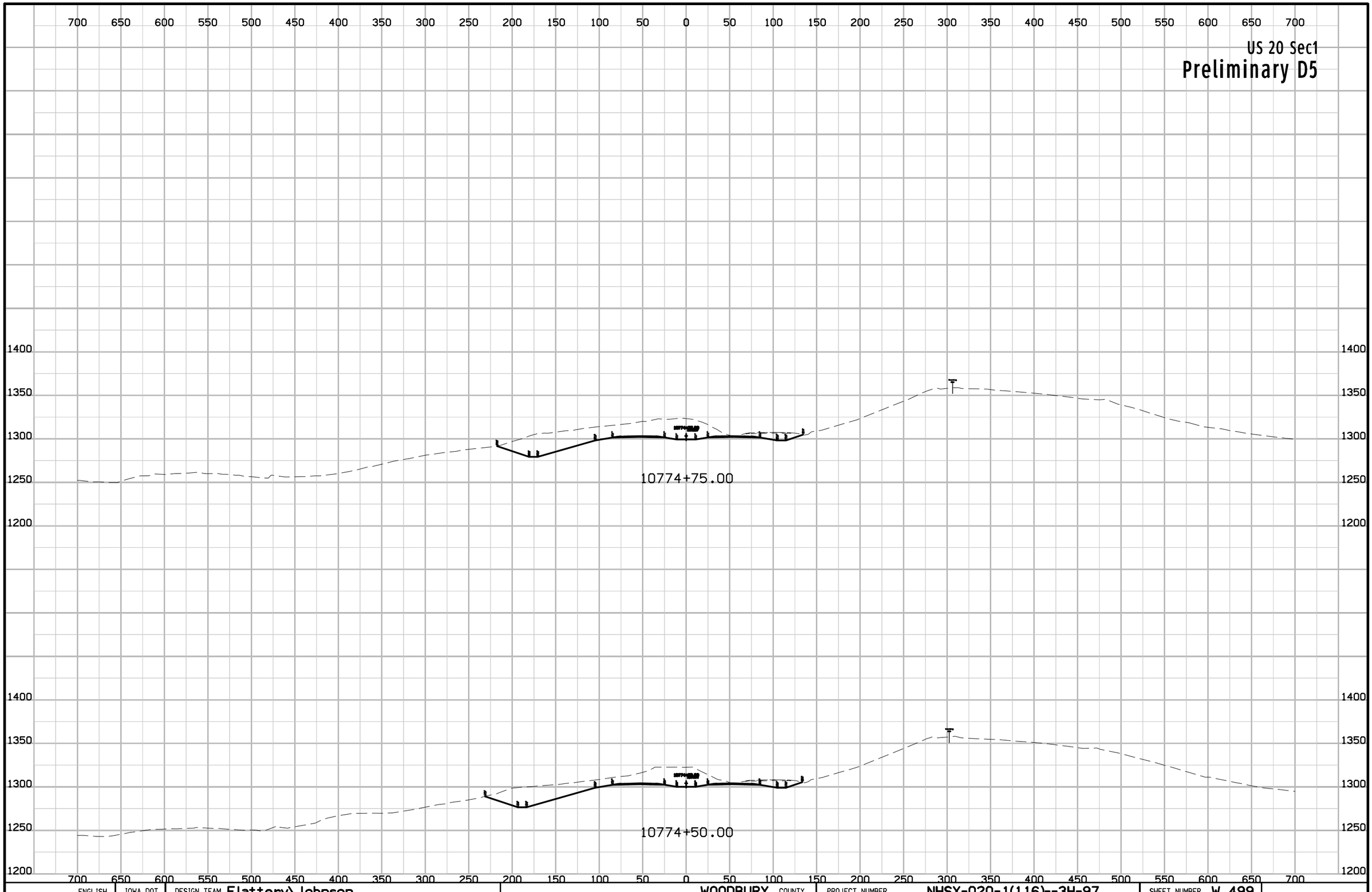
US 20 Sec1

Preliminary D5



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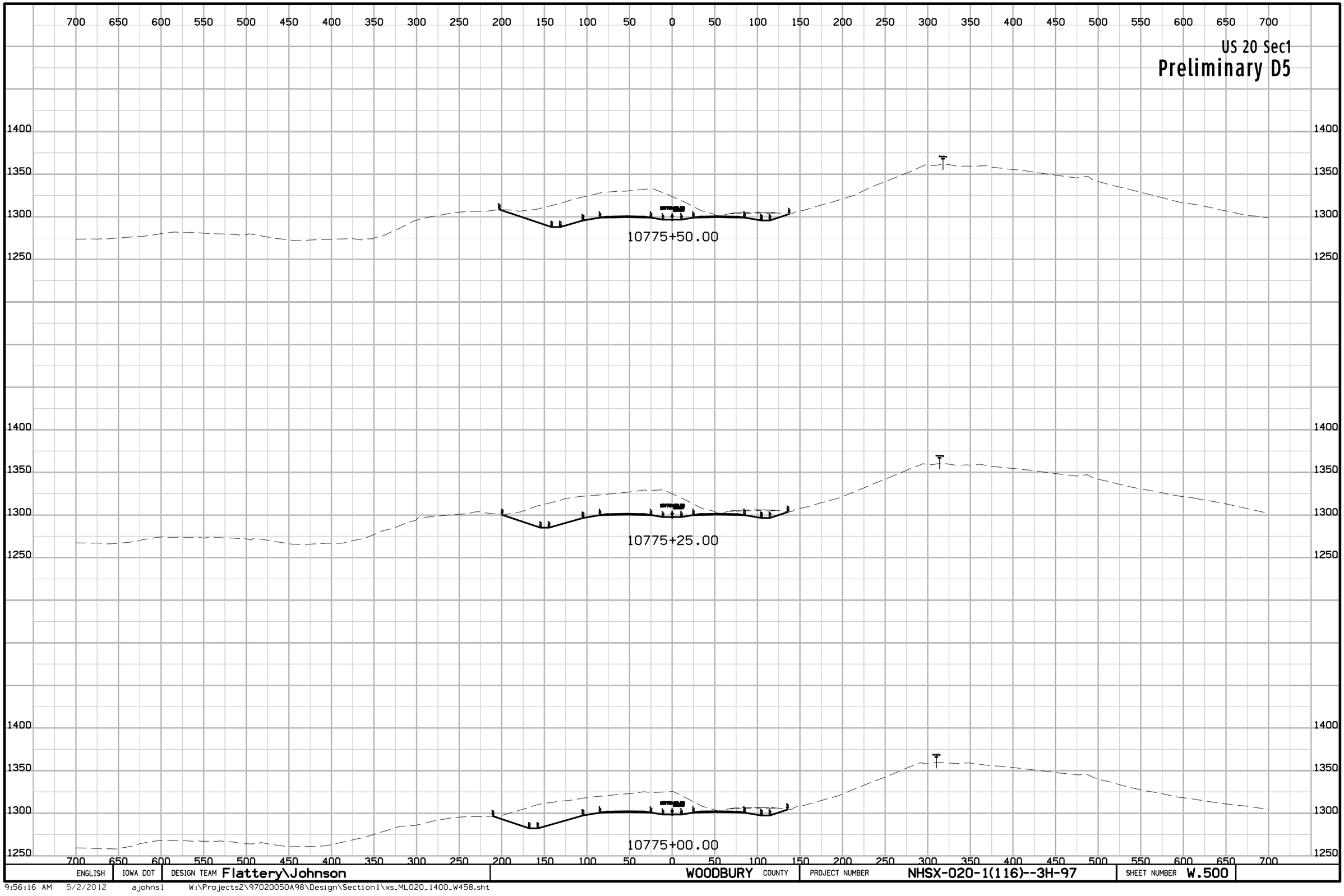
US 20 Sec1

Preliminary D5



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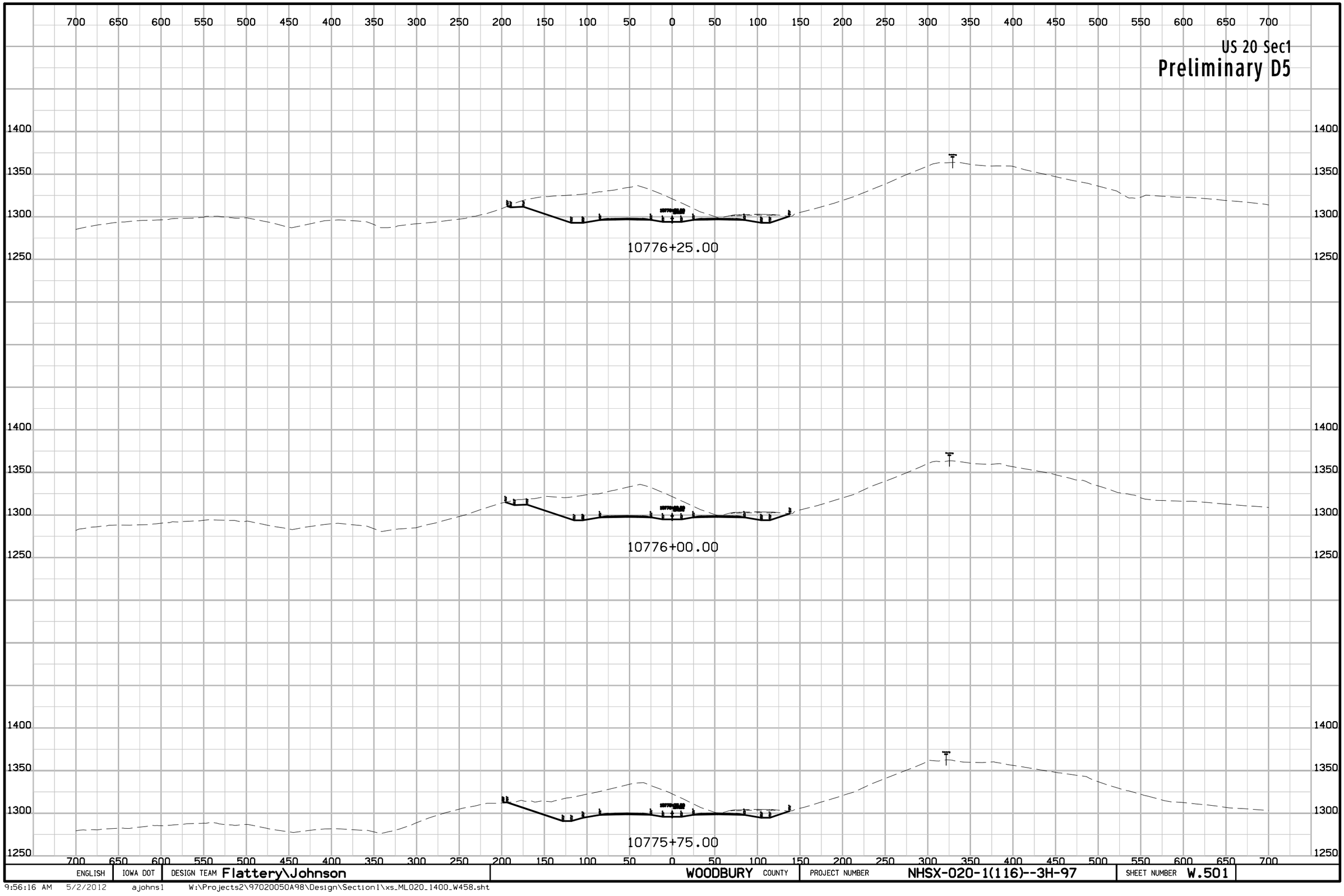
US 20 Sec1

Preliminary D5



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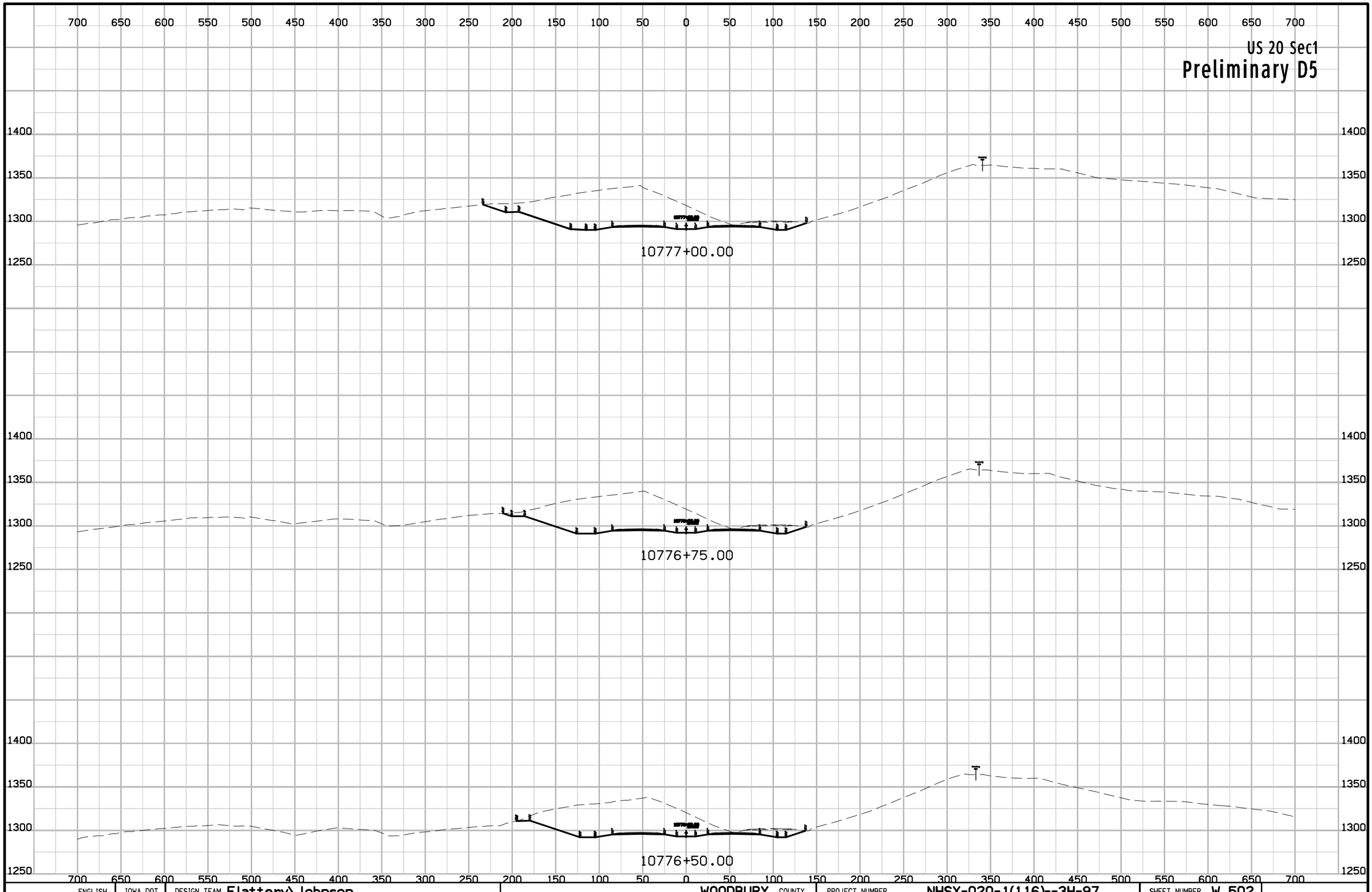
US 20 Sec1

Preliminary D5



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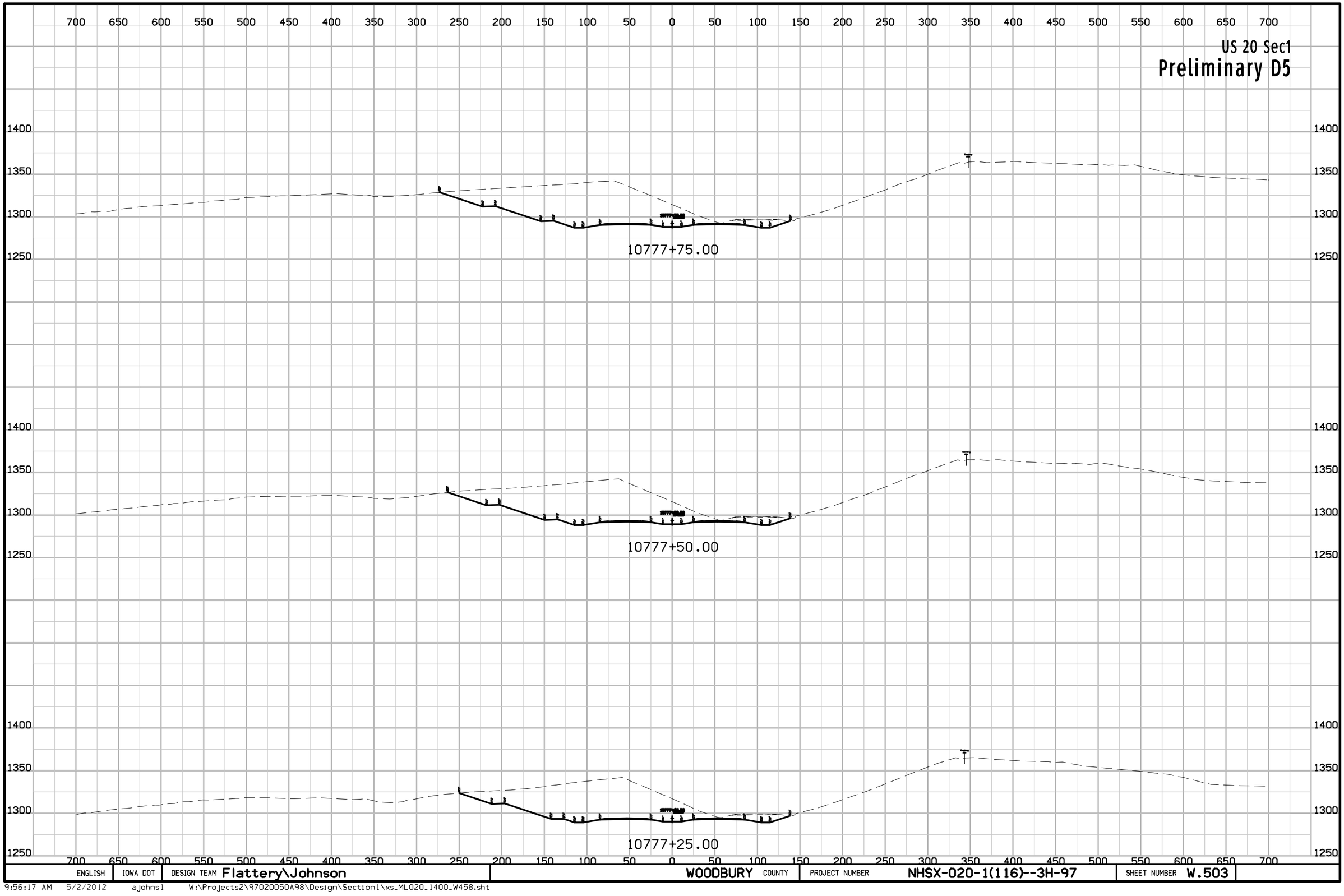
US 20 Sec1

Preliminary D5



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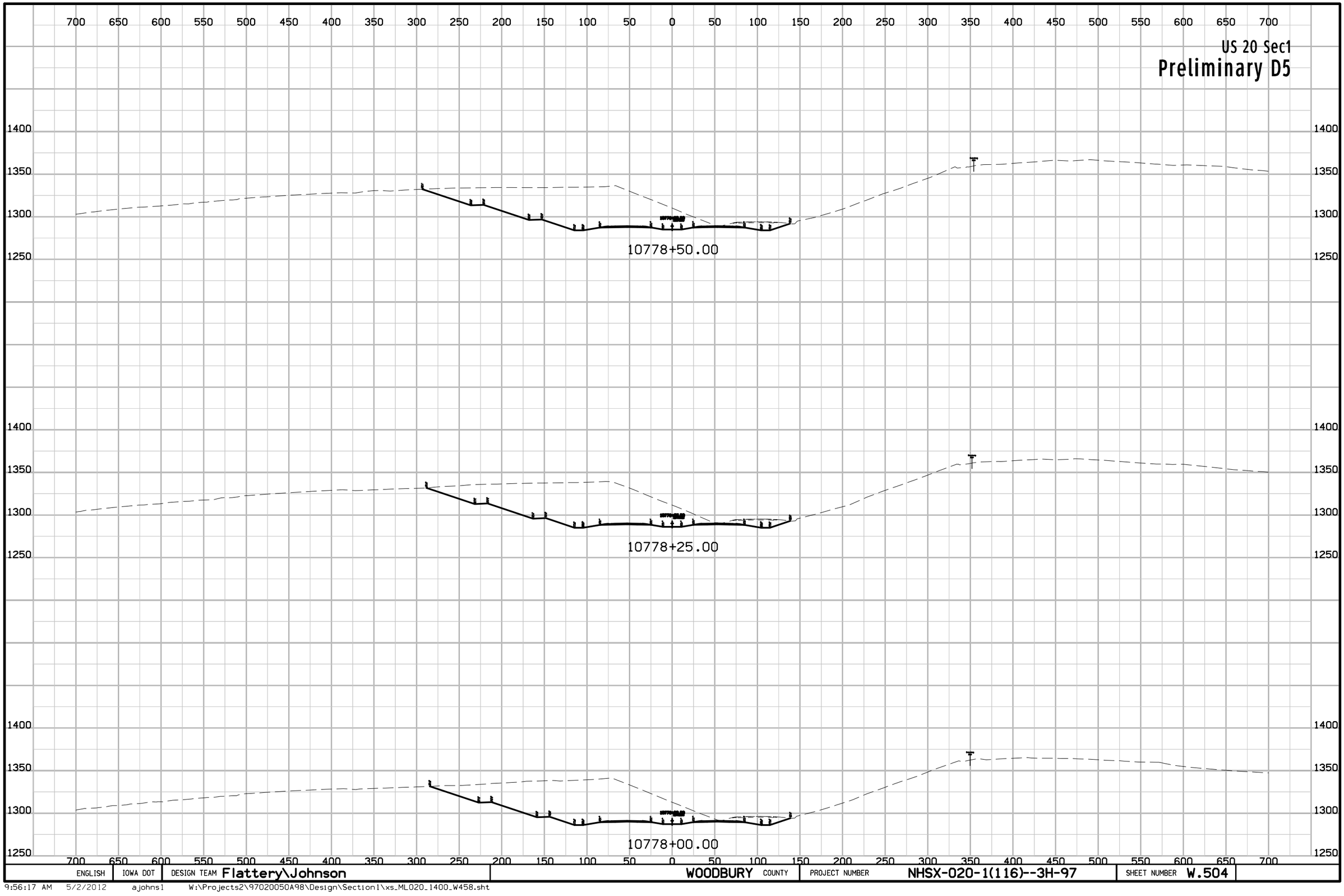
US 20 Sec1

Preliminary D5



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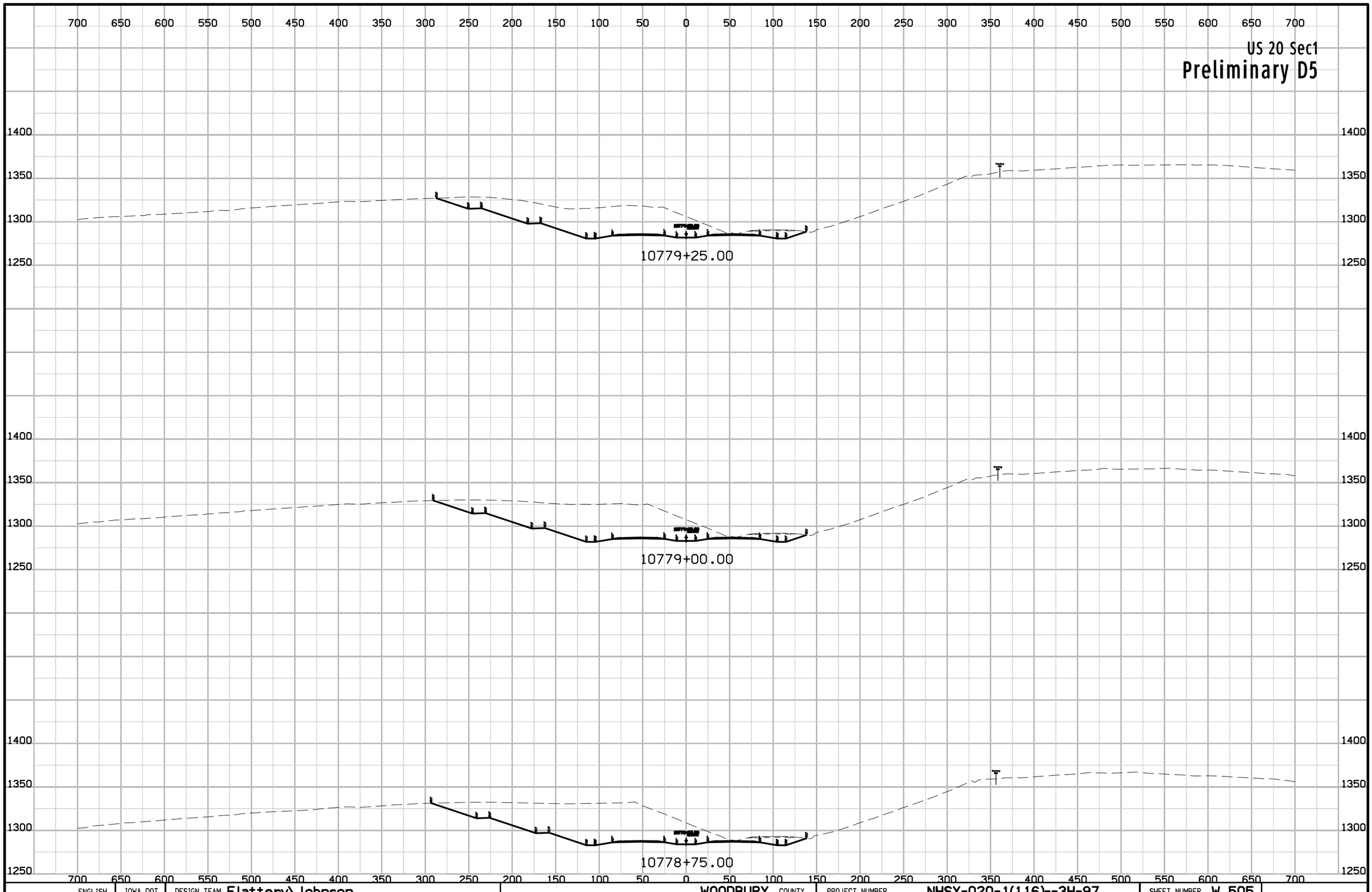
US 20 Sec1

Preliminary D5



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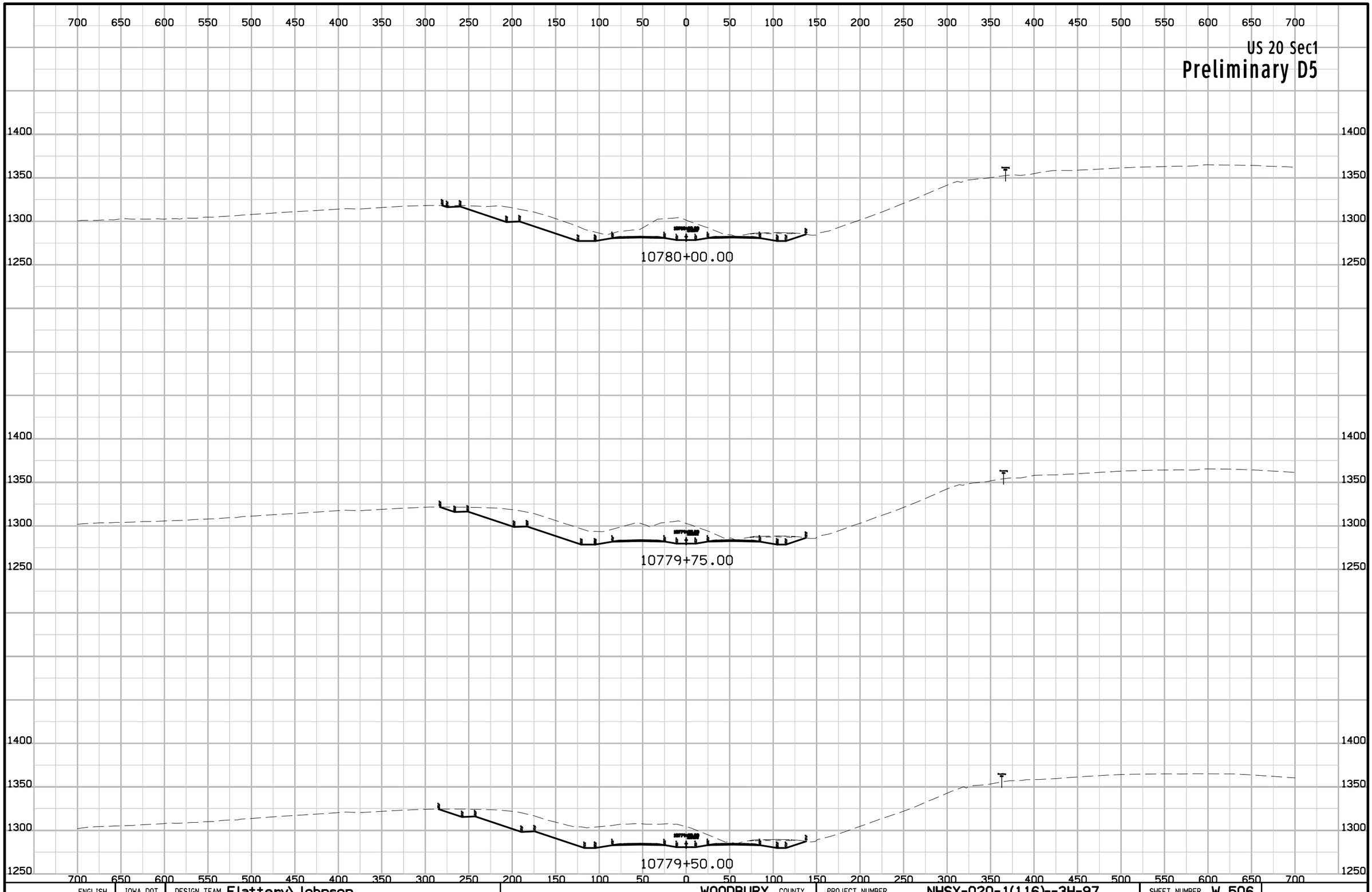
US 20 Sec1

Preliminary D5



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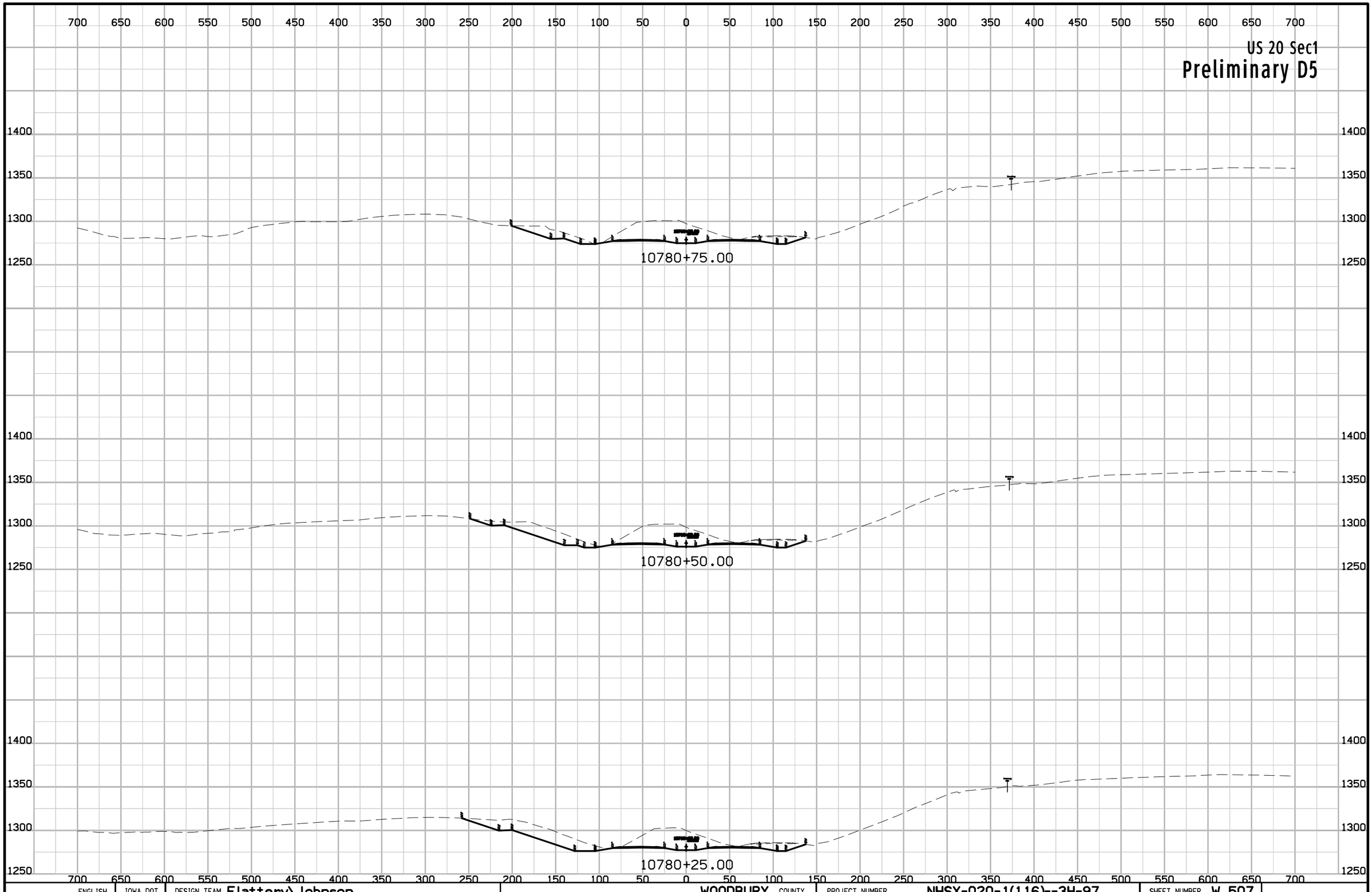
US 20 Sec1

Preliminary D5



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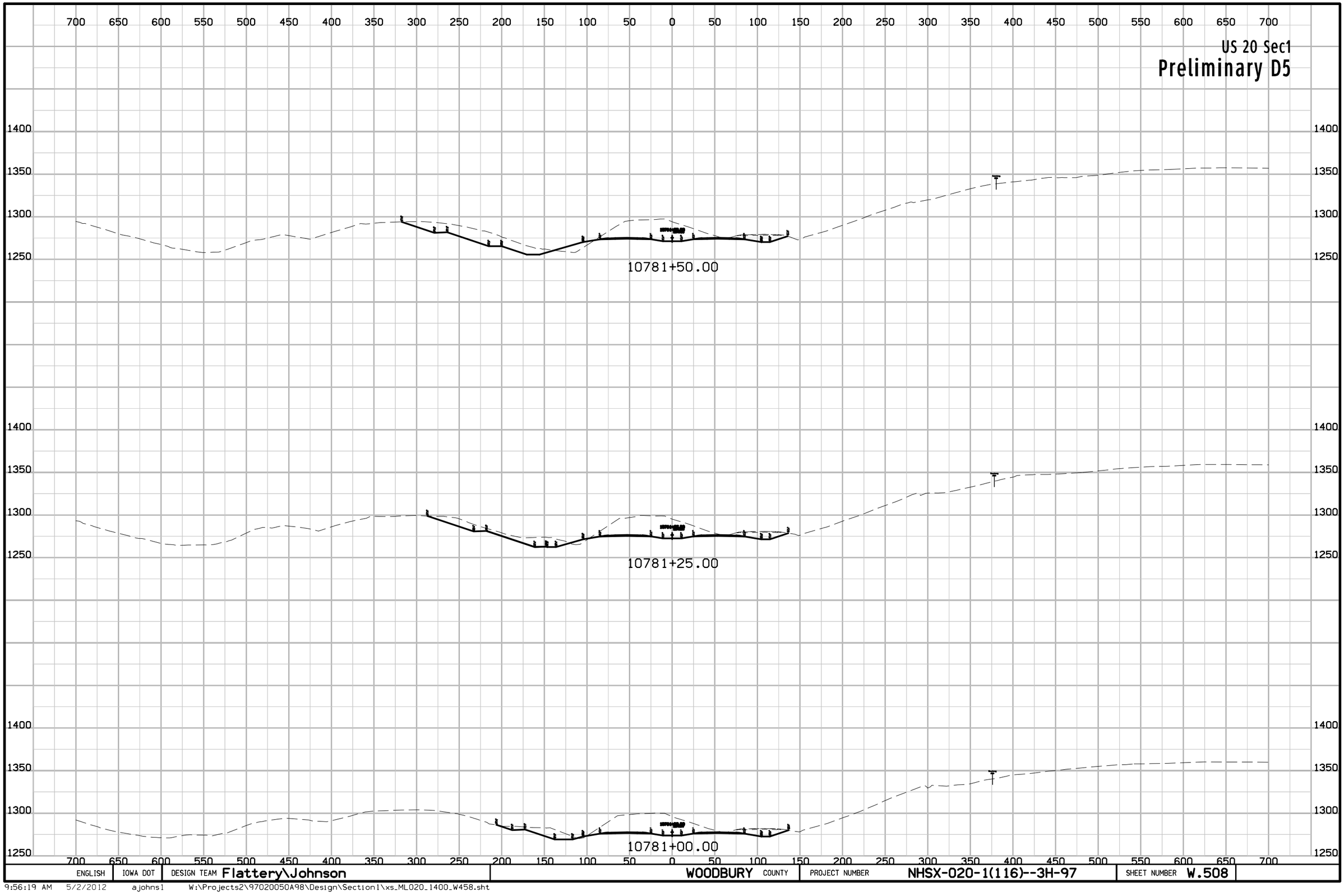
US 20 Sec1

Preliminary D5



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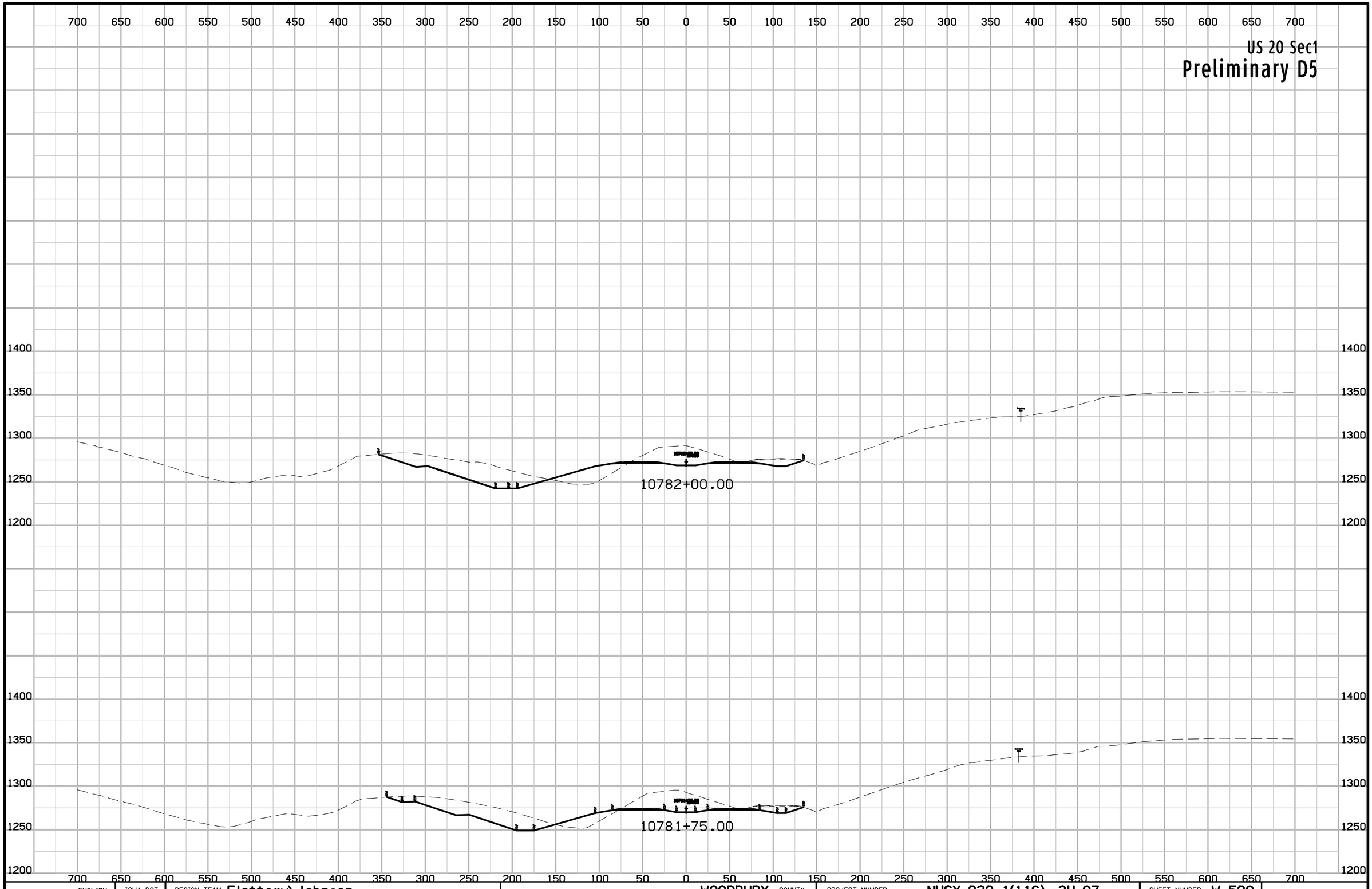
US 20 Sec1

Preliminary D5



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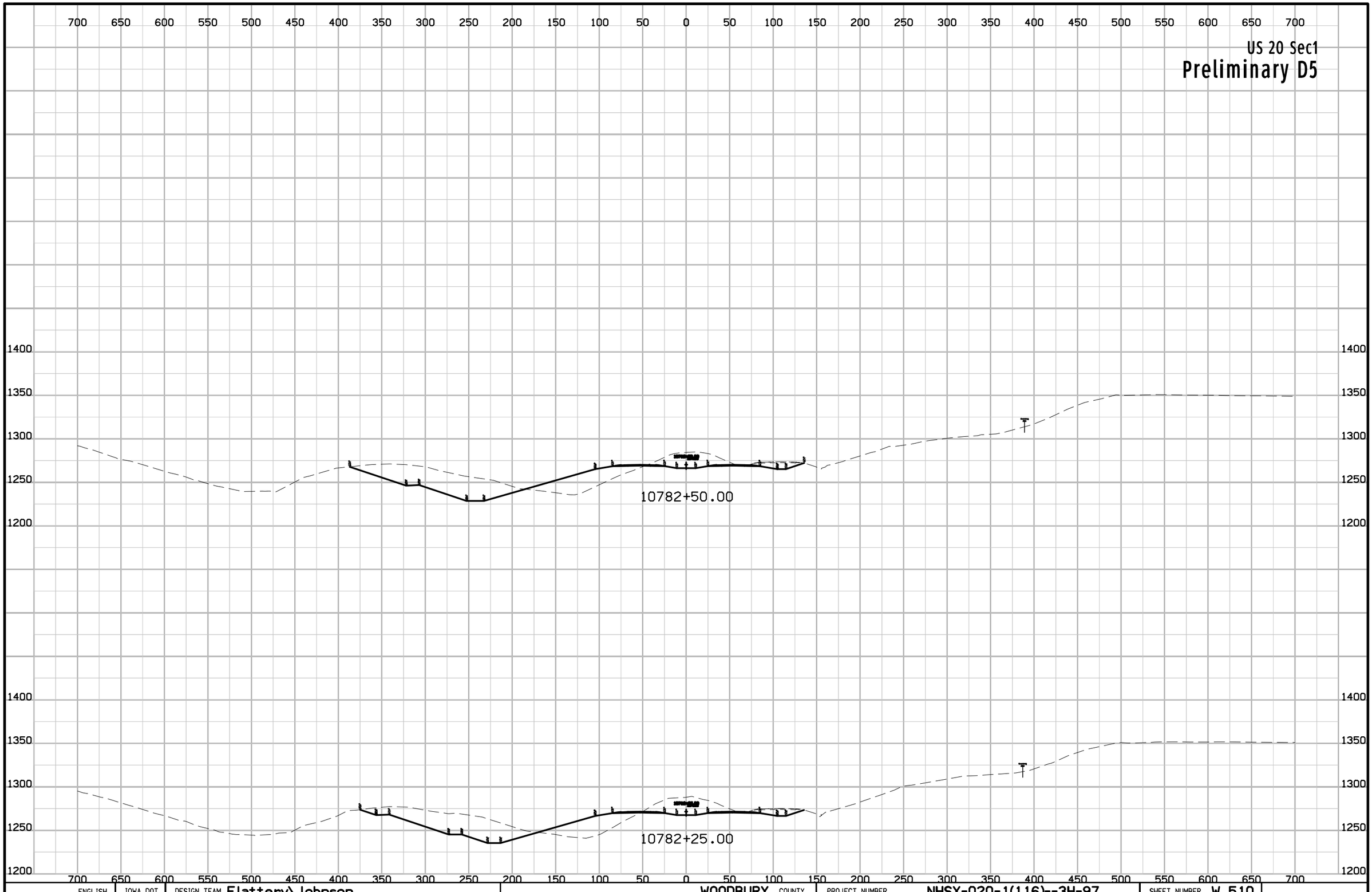
US 20 Sec1

Preliminary D5



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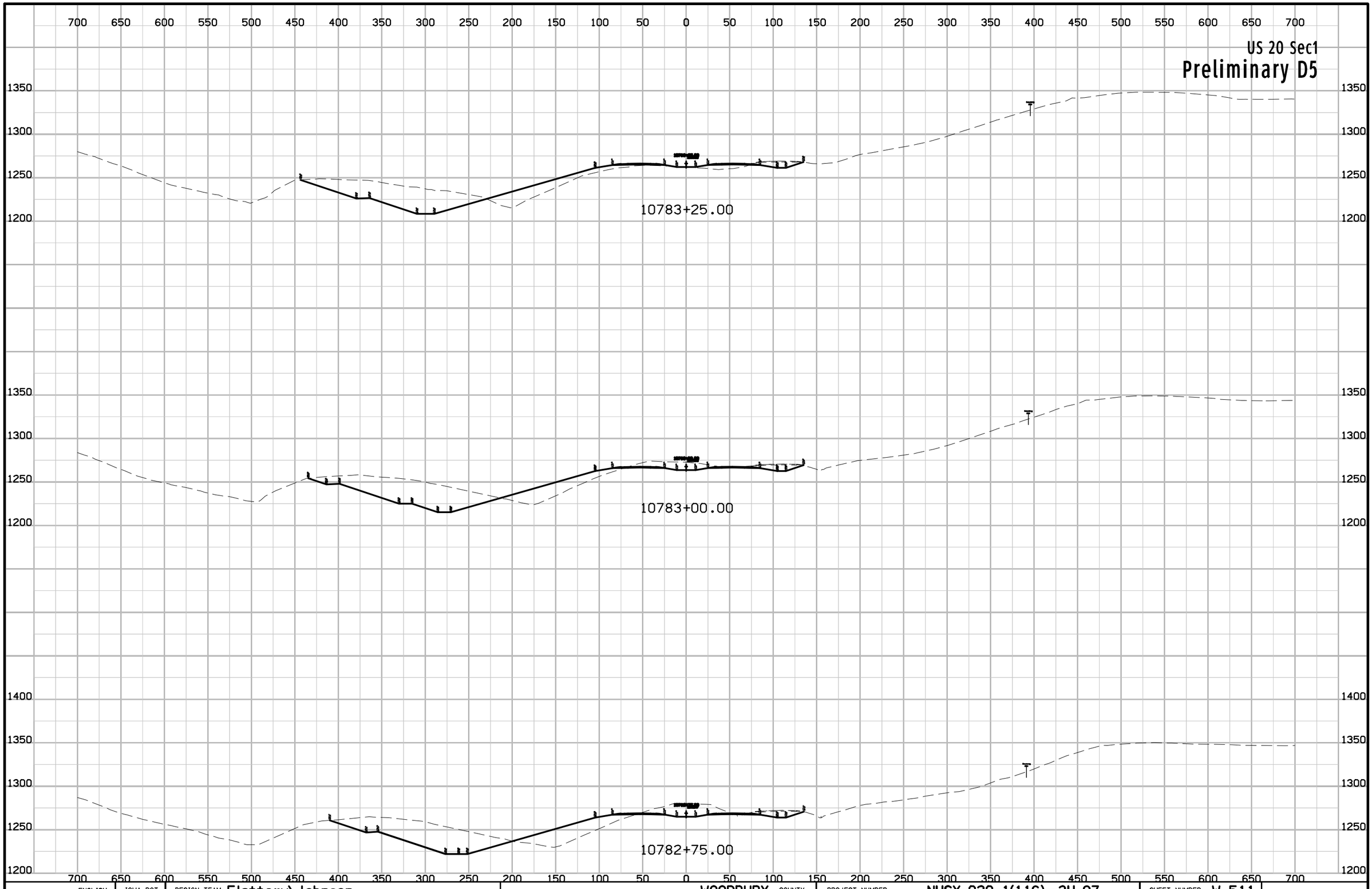
US 20 Sec1

Preliminary D5



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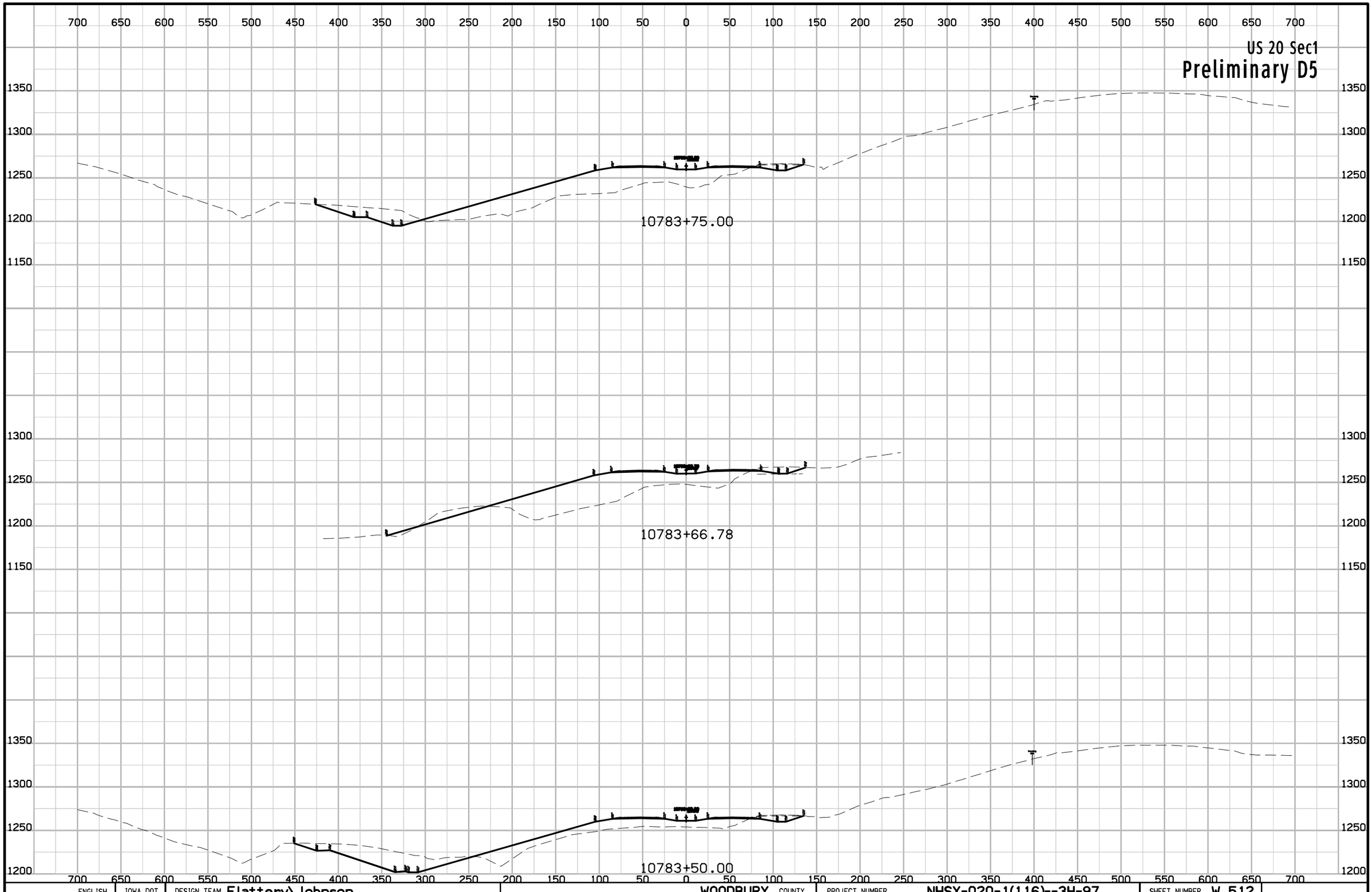
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.512

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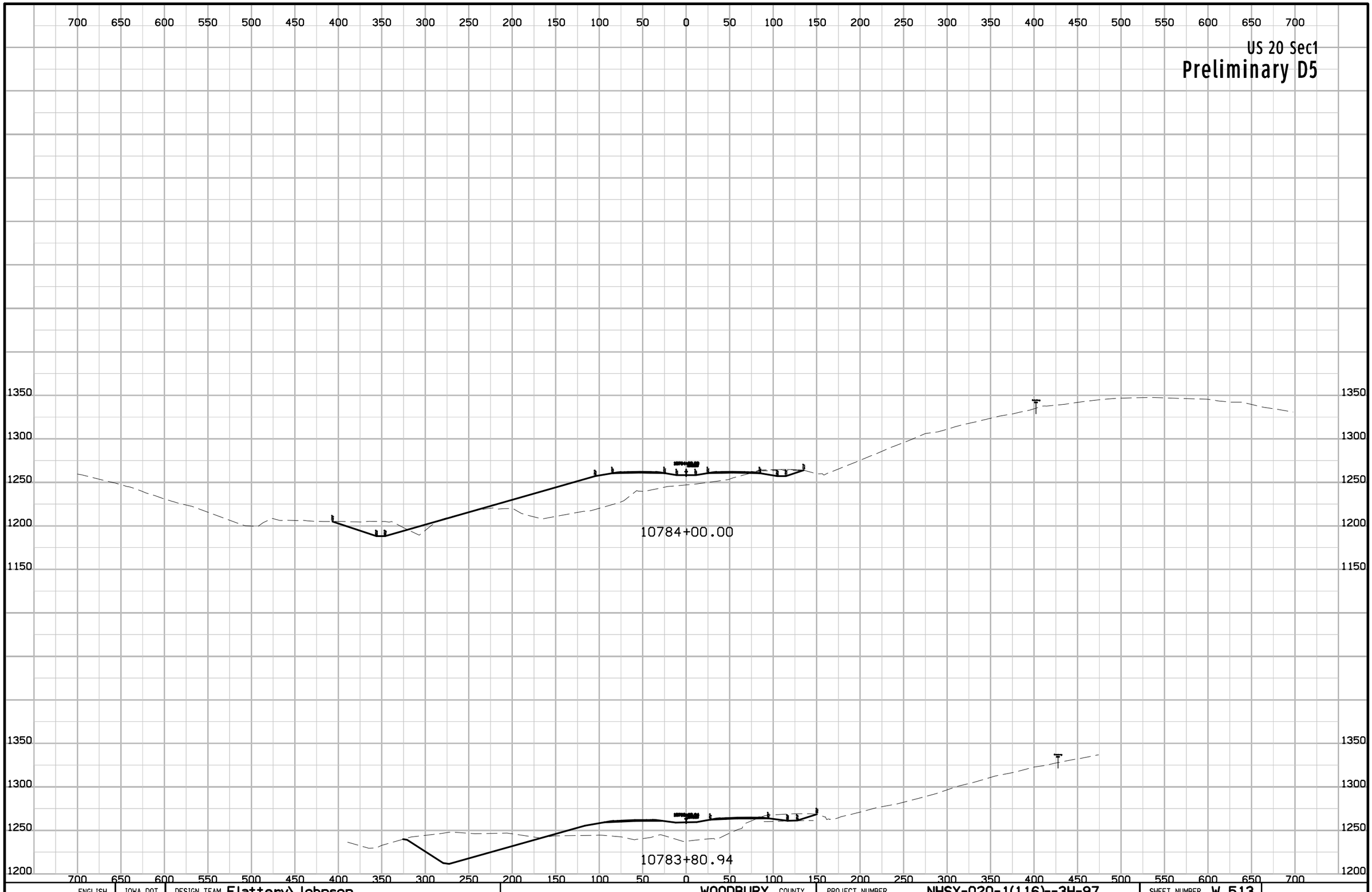
US 20 Sec1

Preliminary D5



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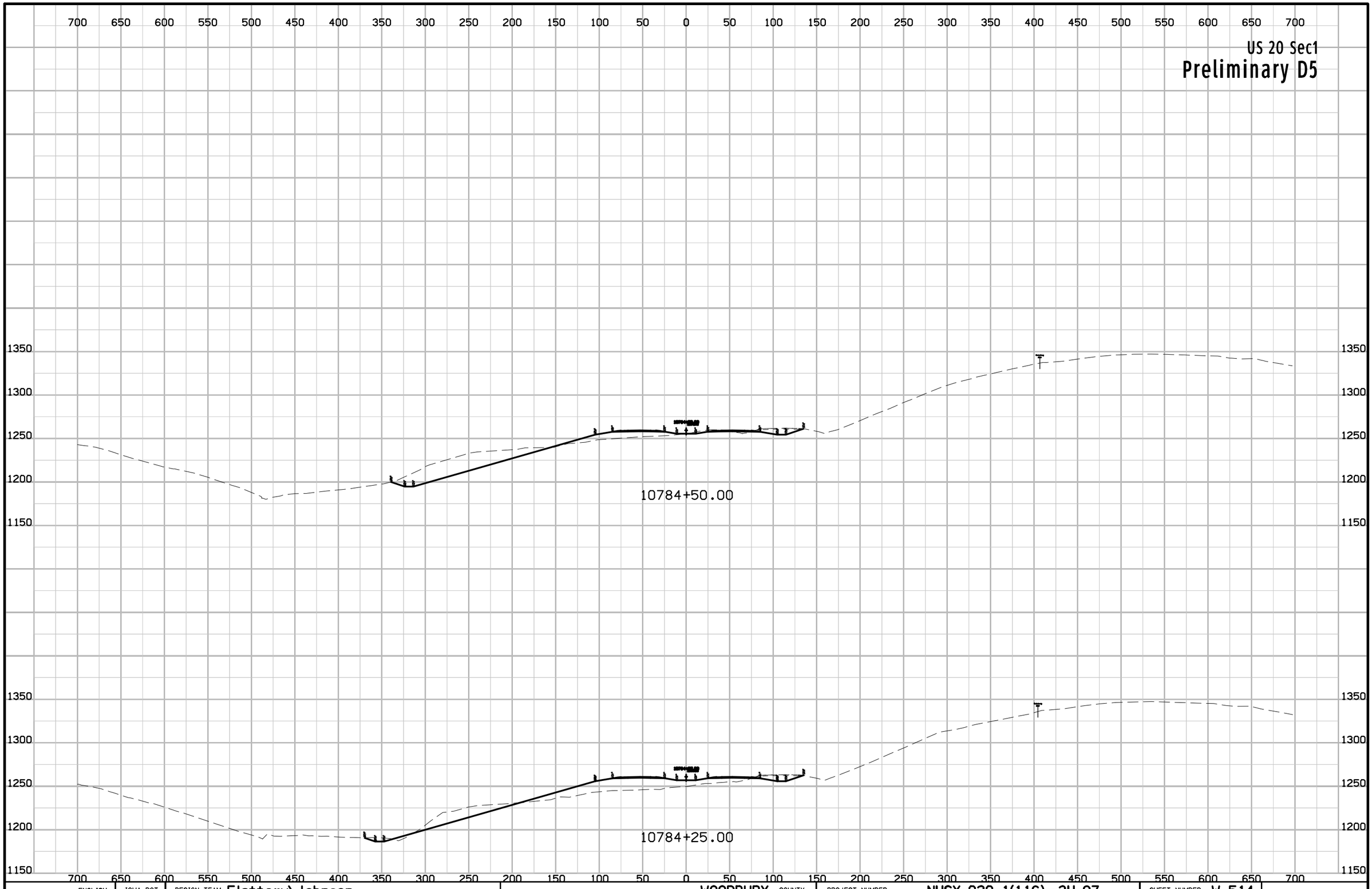
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

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1350
1300
1250
1200

10784+80.85

1350
1300
1250
1200
1150

10784+75.00

700 650 600 550 500 450 400 350 300 250 200 150 100 50 0 50 100 150 200 250 300 350 400 450 500 550 600 650 700

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.515

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US 20 Sec1

Preliminary D5

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1350
1300
1250
1200
1150

10785+25.00

10785+00.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.516

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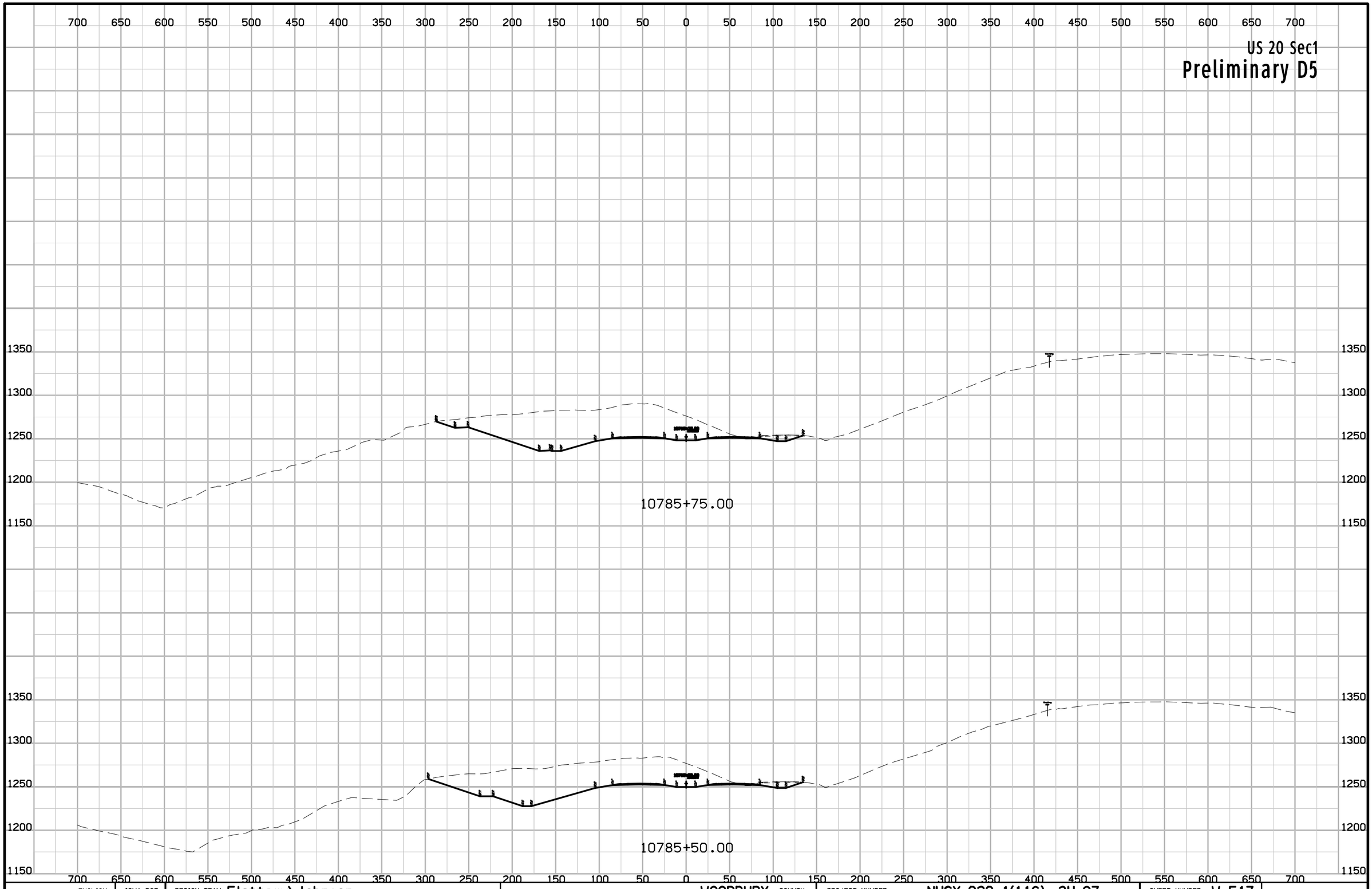
US 20 Sec1

Preliminary D5



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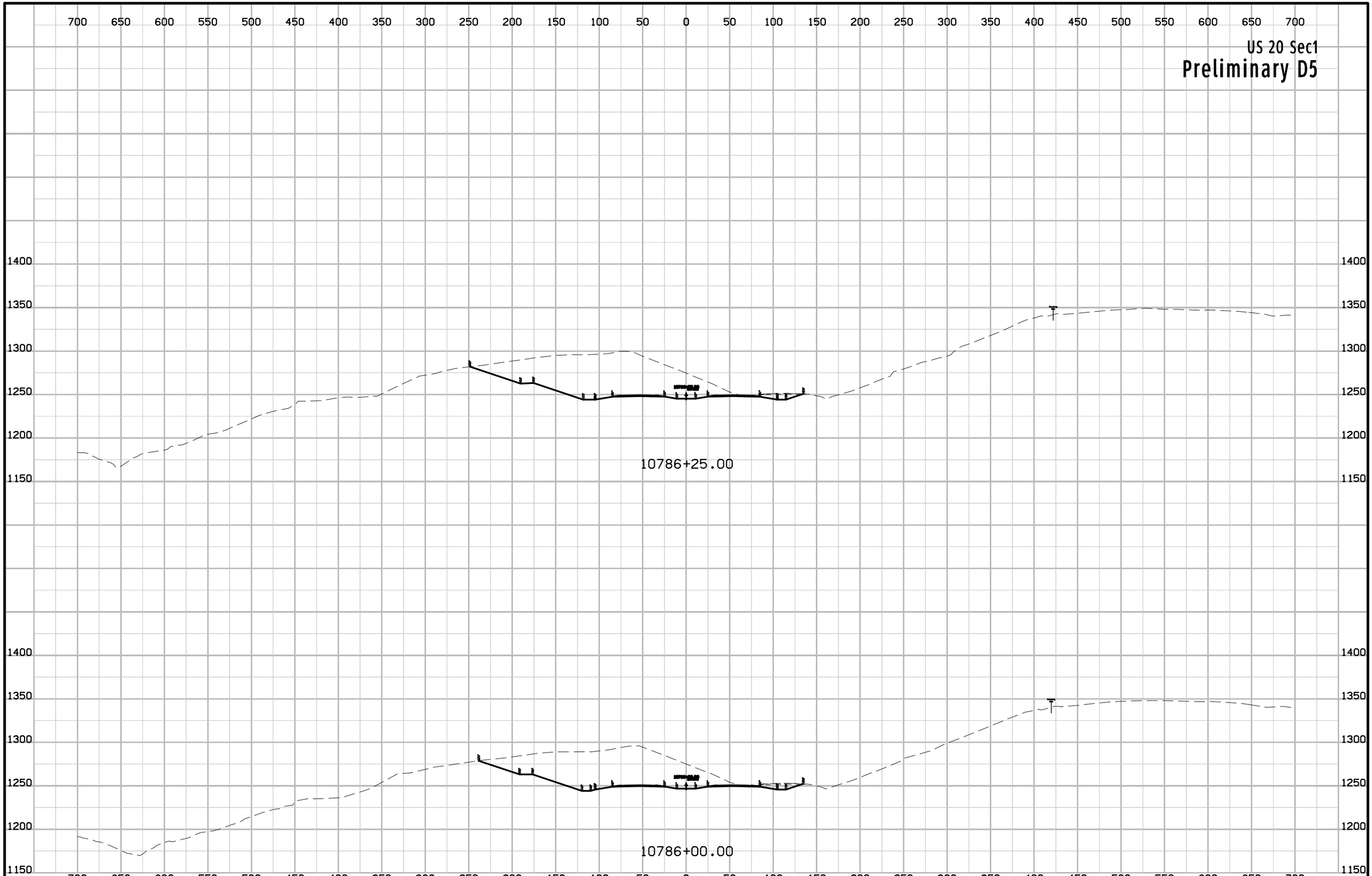
US 20 Sec1

Preliminary D5



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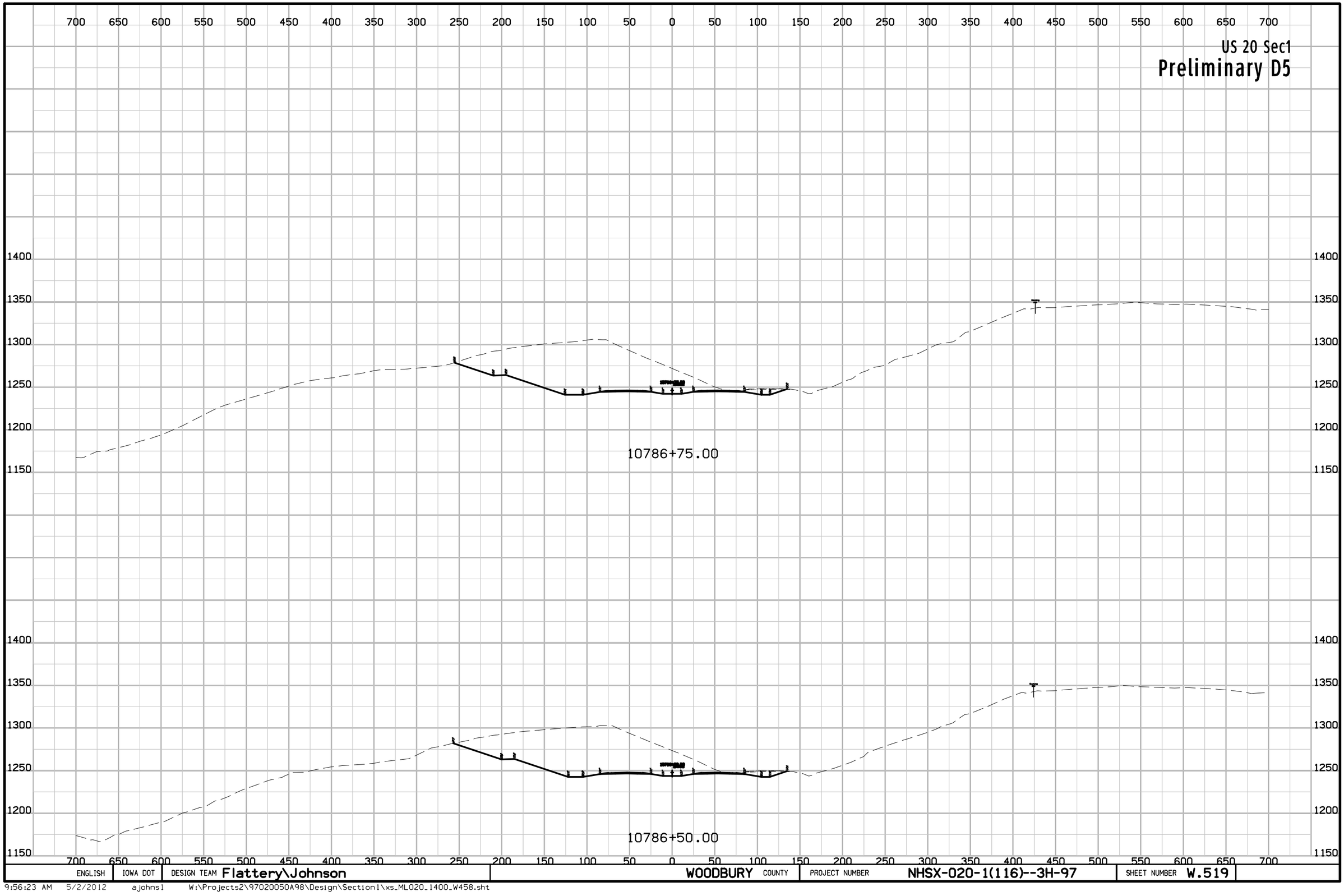
US 20 Sec1

Preliminary D5



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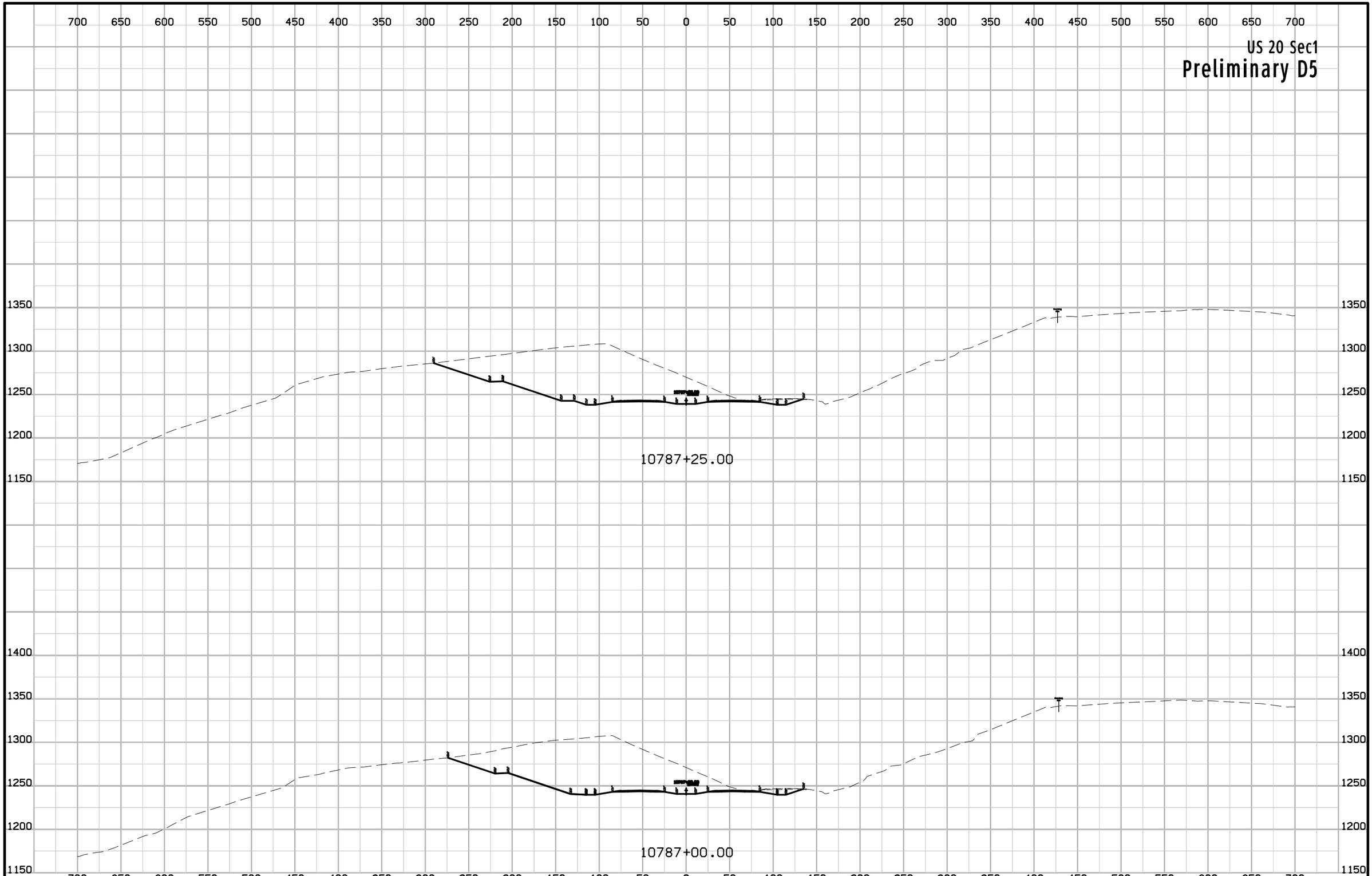
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

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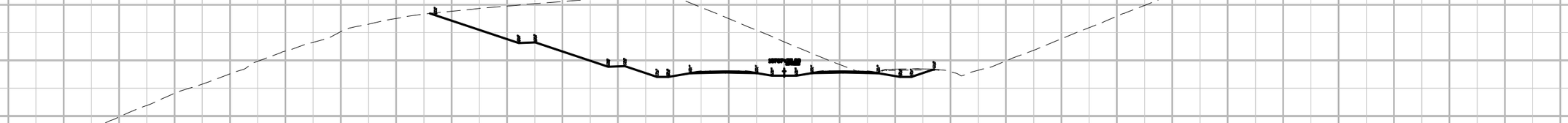
1300
1250
1200
1150



10787+75.00



10787+50.00

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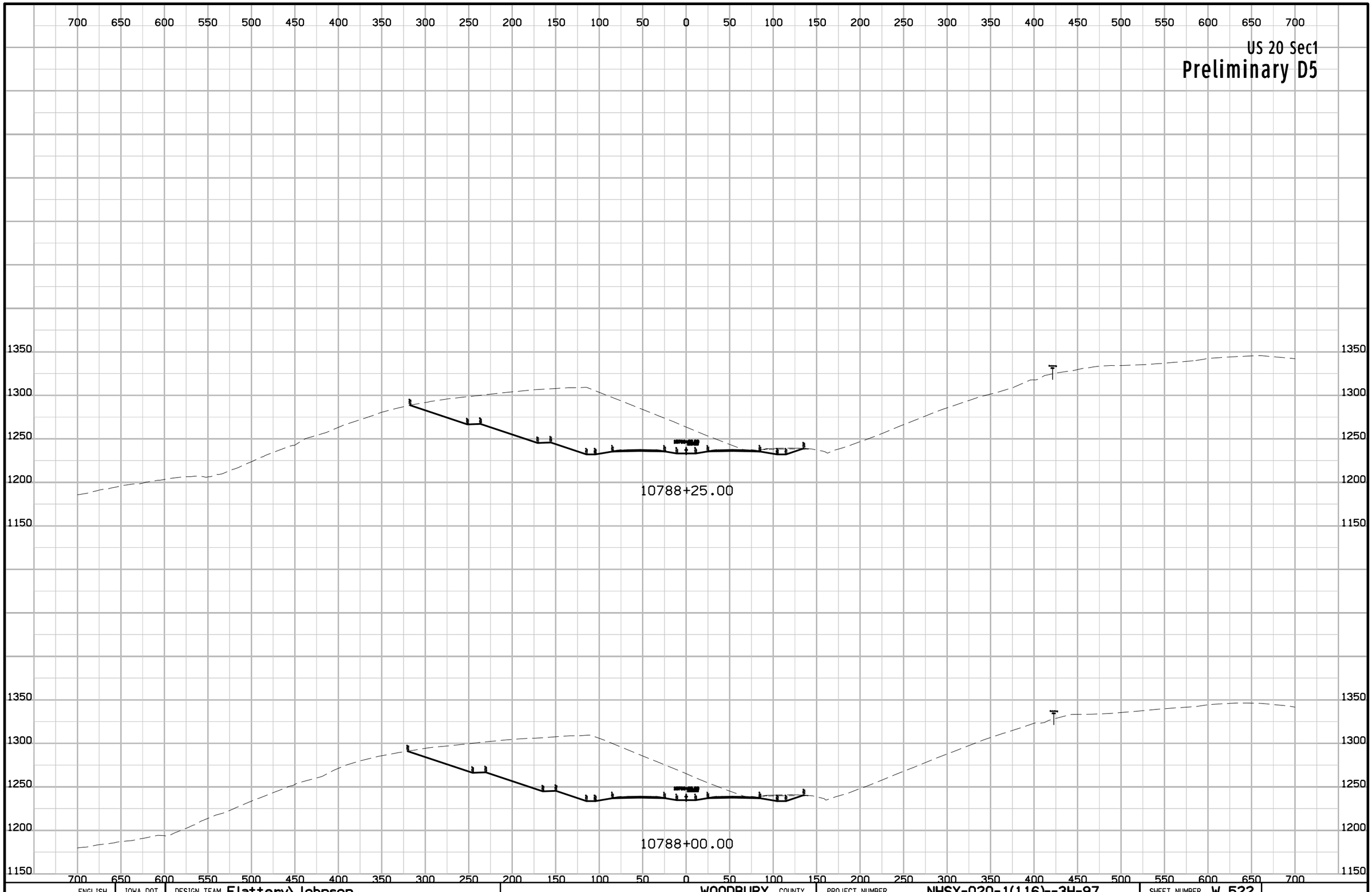
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

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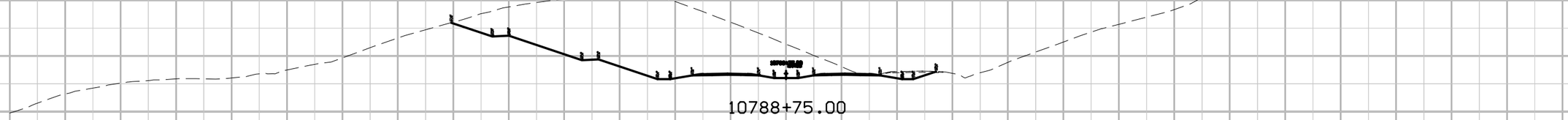
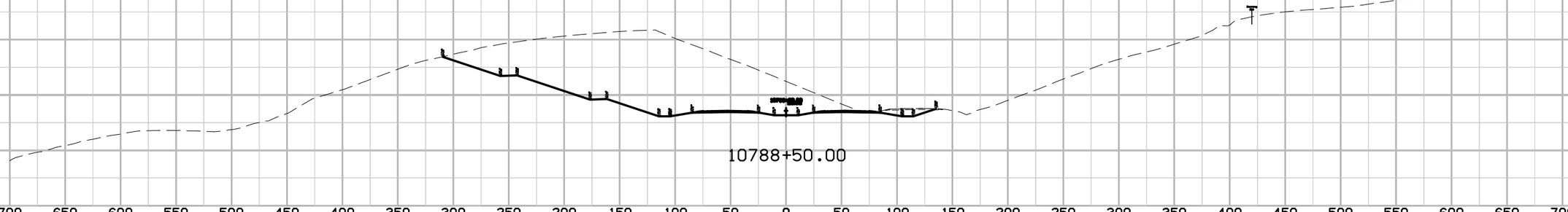
1300
1250
1200
1150



10788+75.00



10788+50.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.523

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US 20 Sec1

Preliminary D5

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1350
1300
1250
1200

10789+50.00

10789+25.00

10789+00.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.524

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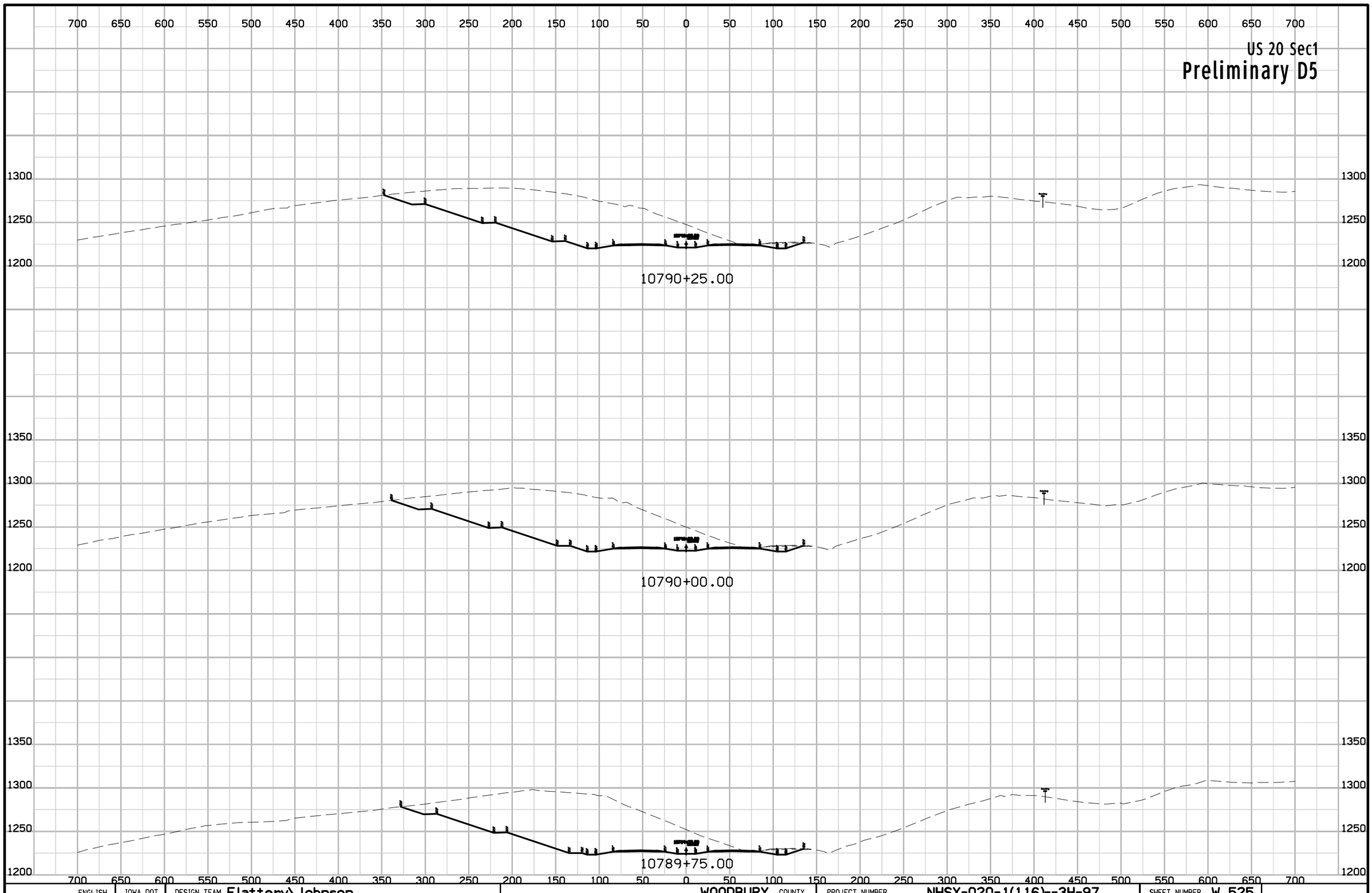
US 20 Sec1

Preliminary D5



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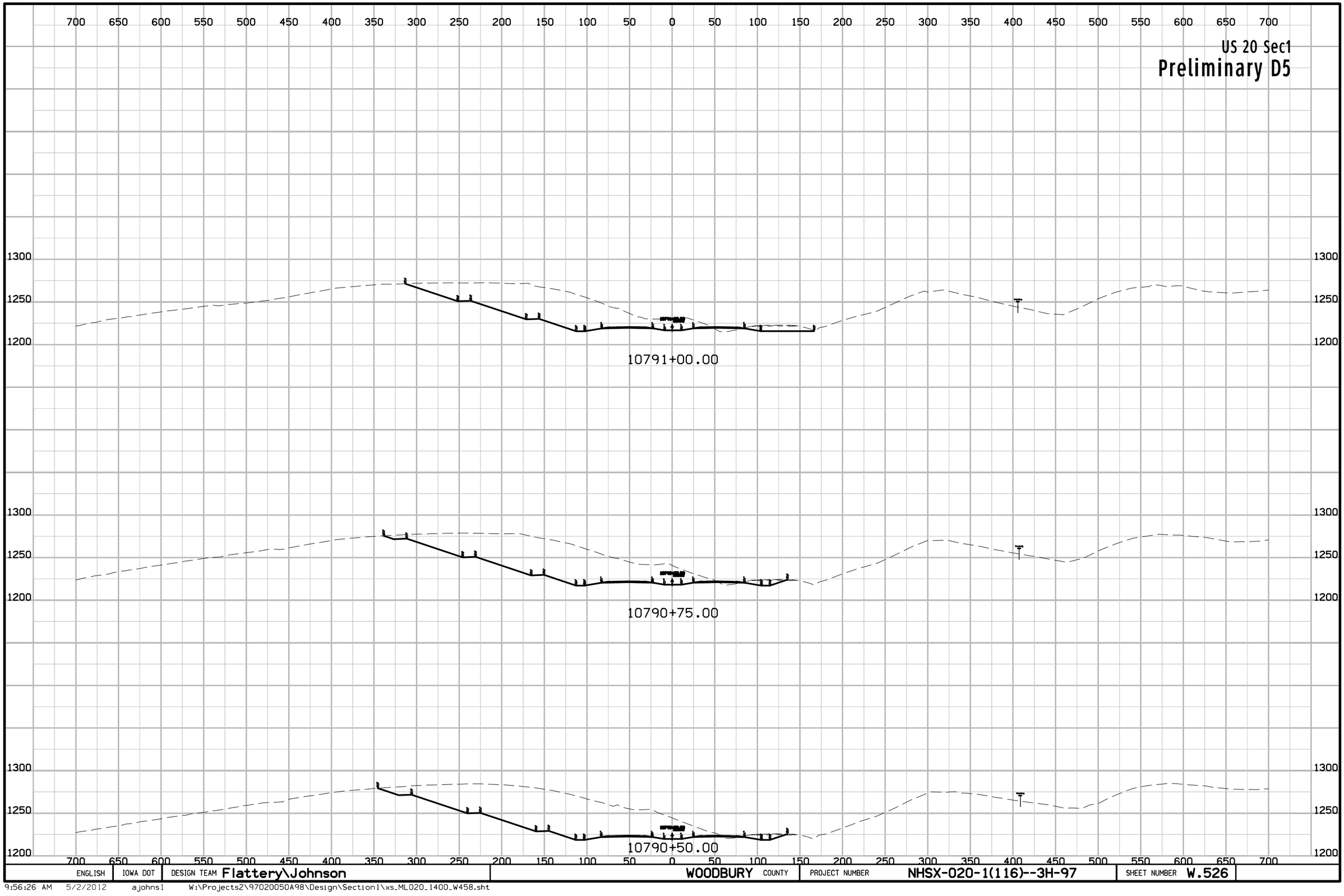
US 20 Sec1

Preliminary D5



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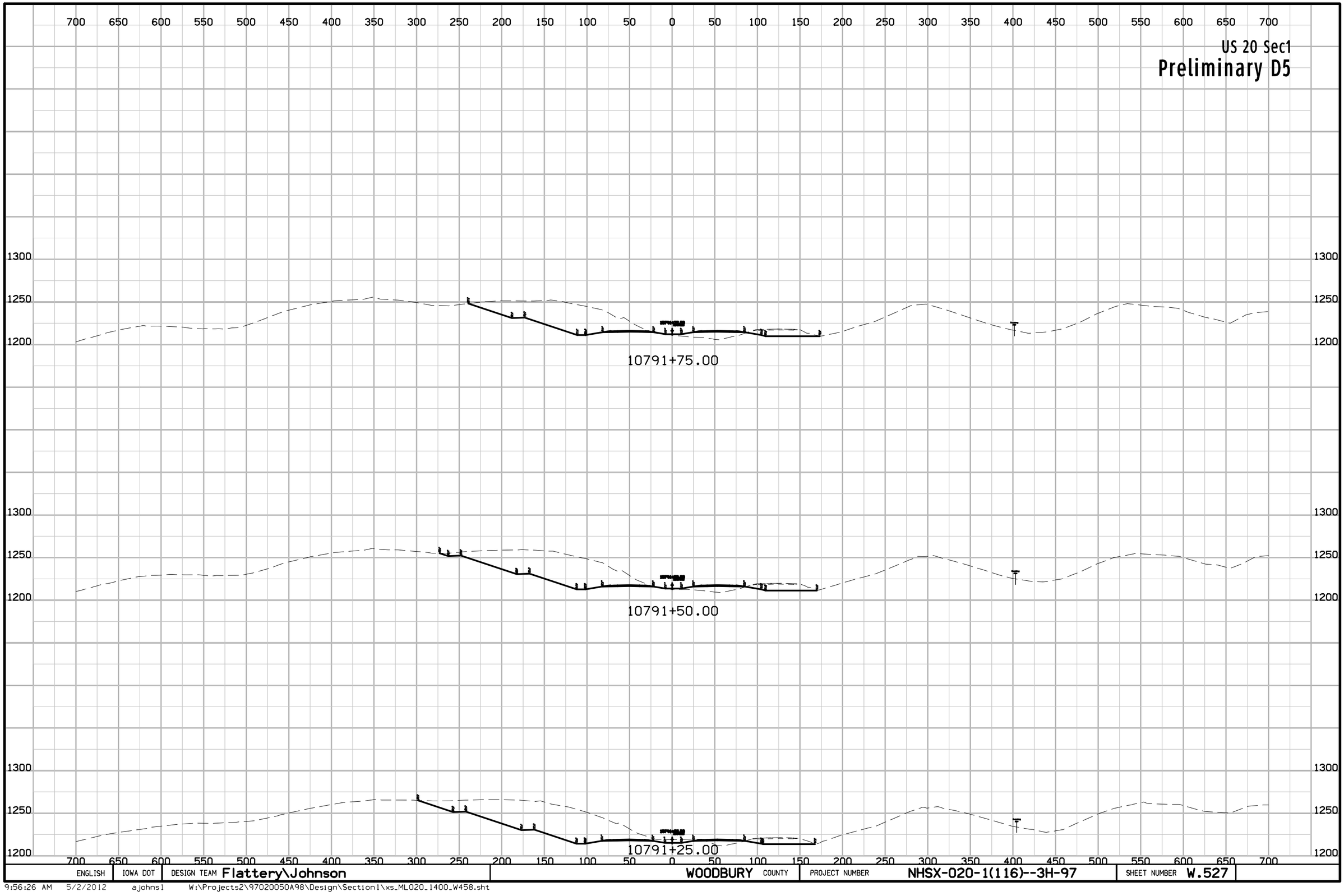
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

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1250
1200
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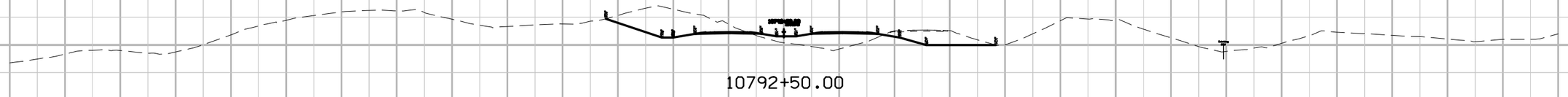

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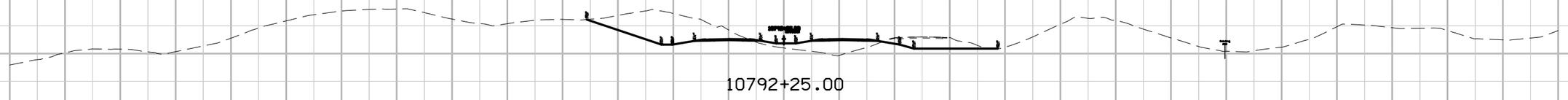
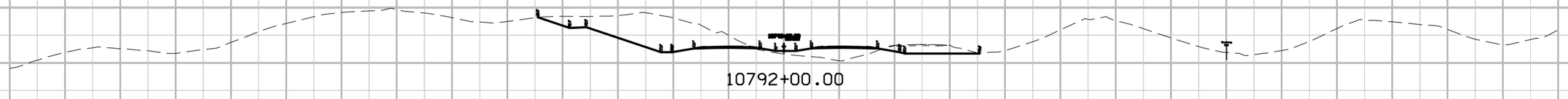


10792+25.00



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ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.528

9:56:26 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_1400_W458.sht

US 20 Sec1

Preliminary D5

700 650 600 550 500 450 400 350 300 250 200 150 100 50 0 50 100 150 200 250 300 350 400 450 500 550 600 650 700

1250
1200
1150

10793+25.00

10793+00.00

10792+75.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.529

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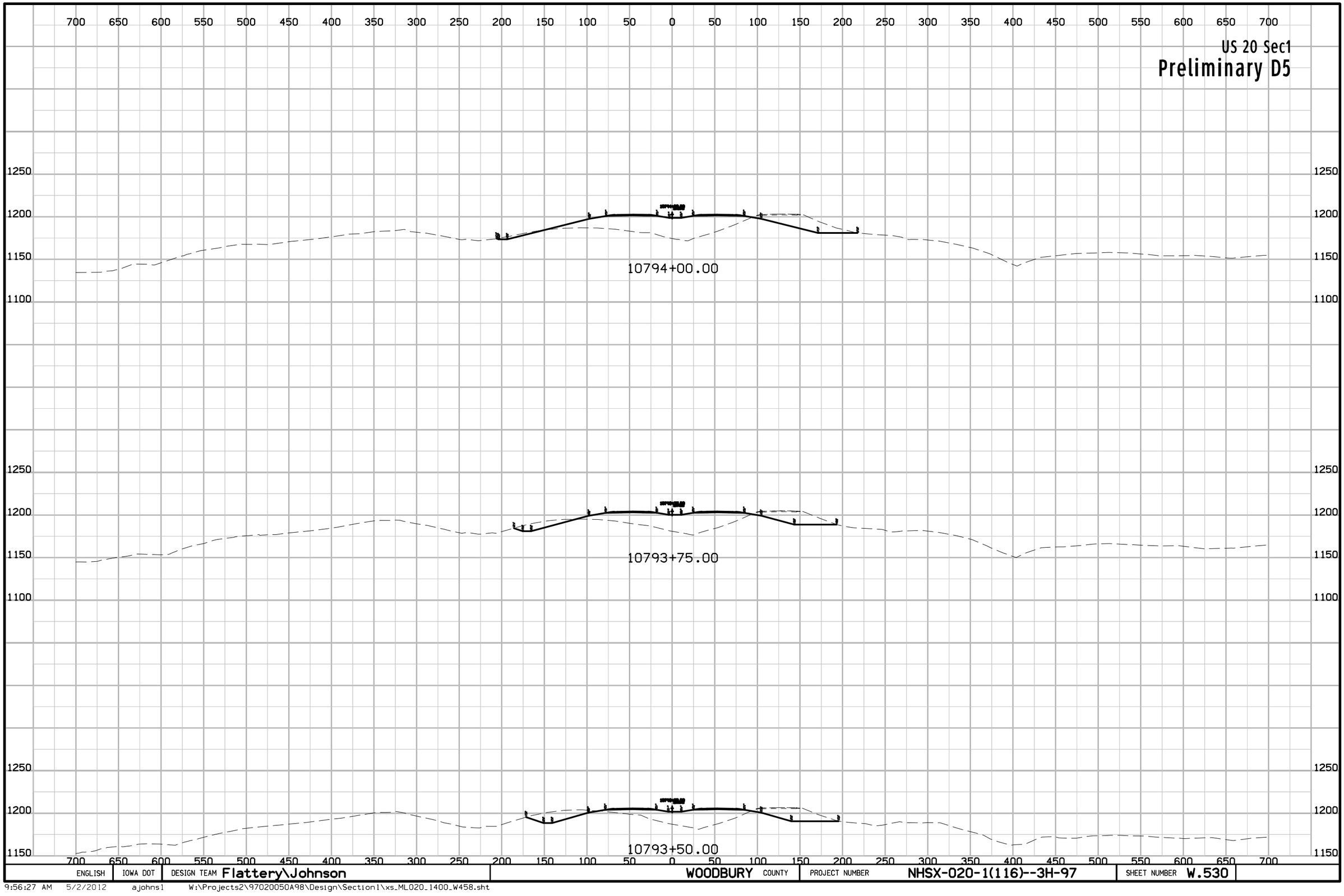
US 20 Sec1

Preliminary D5



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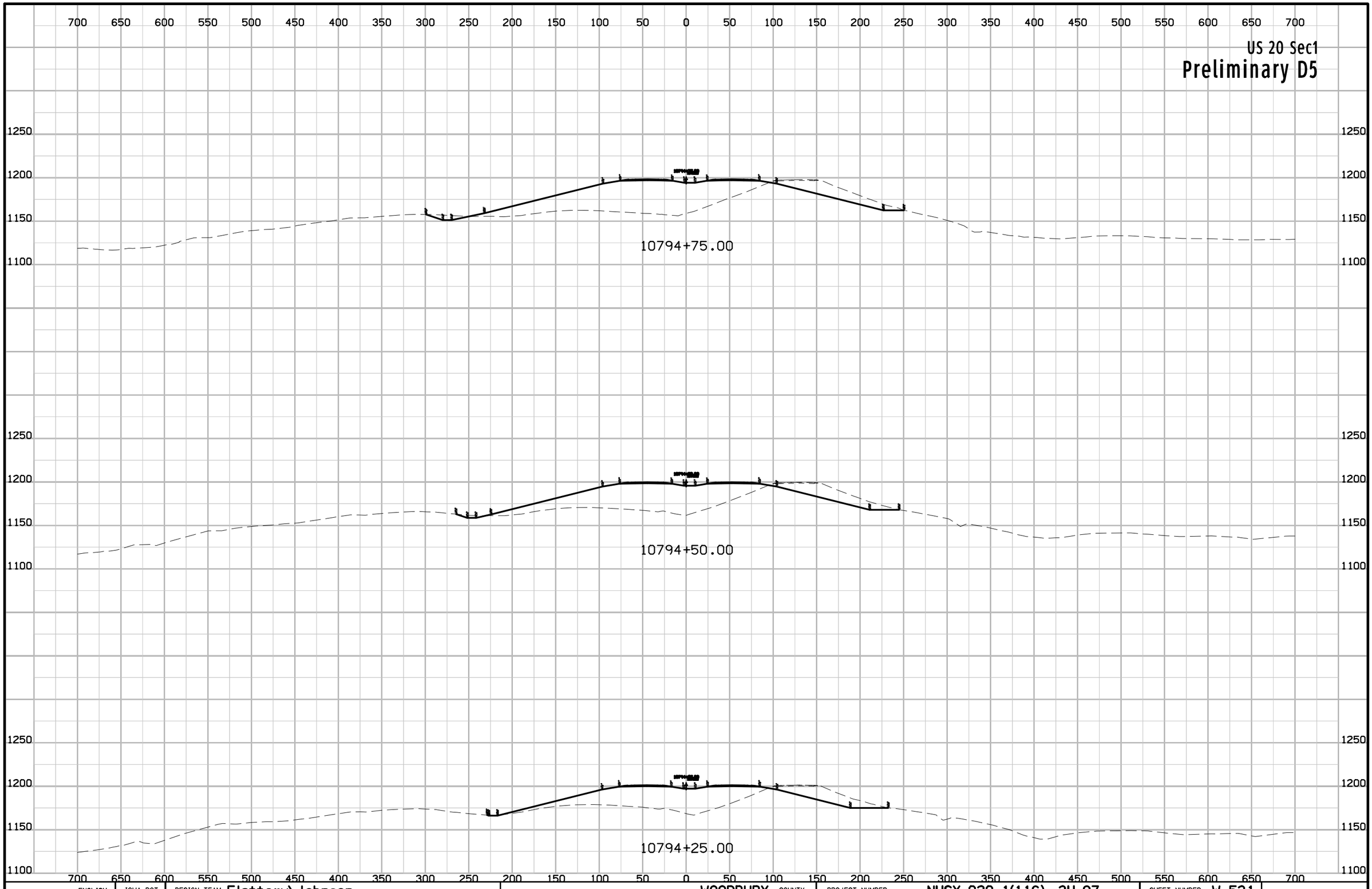
US 20 Sec1

Preliminary D5



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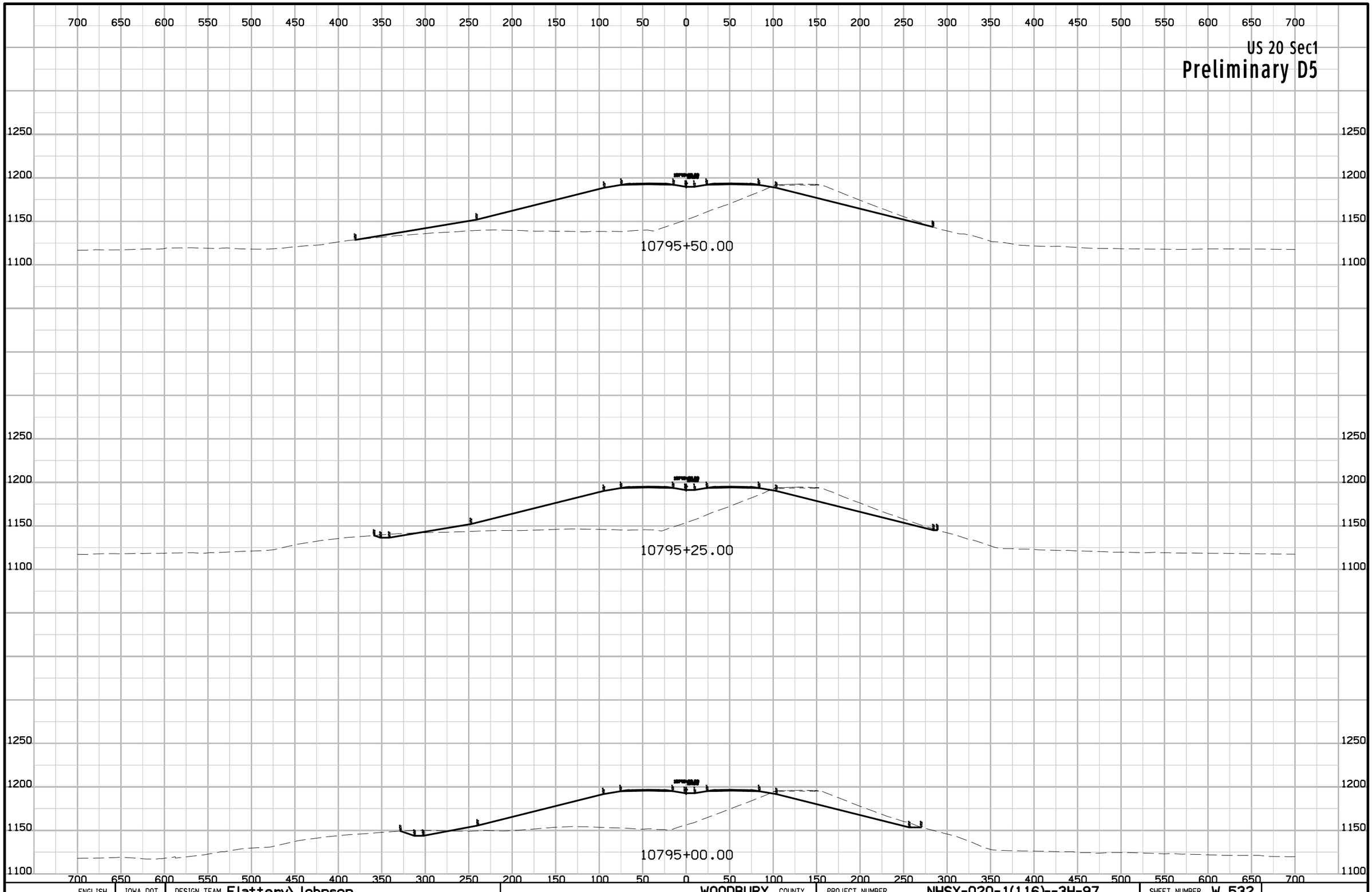
US 20 Sec1

Preliminary D5



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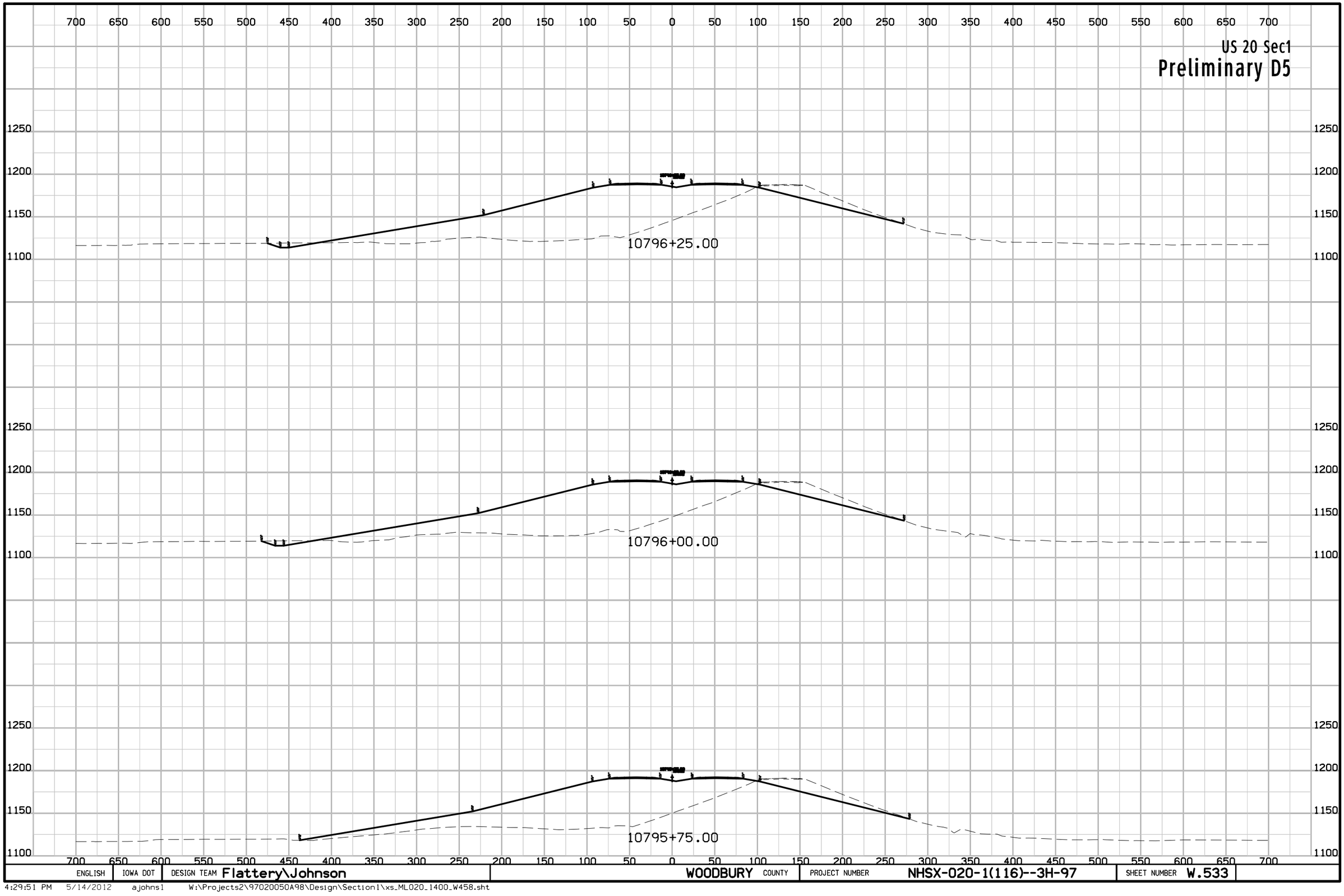
US 20 Sec1

Preliminary D5



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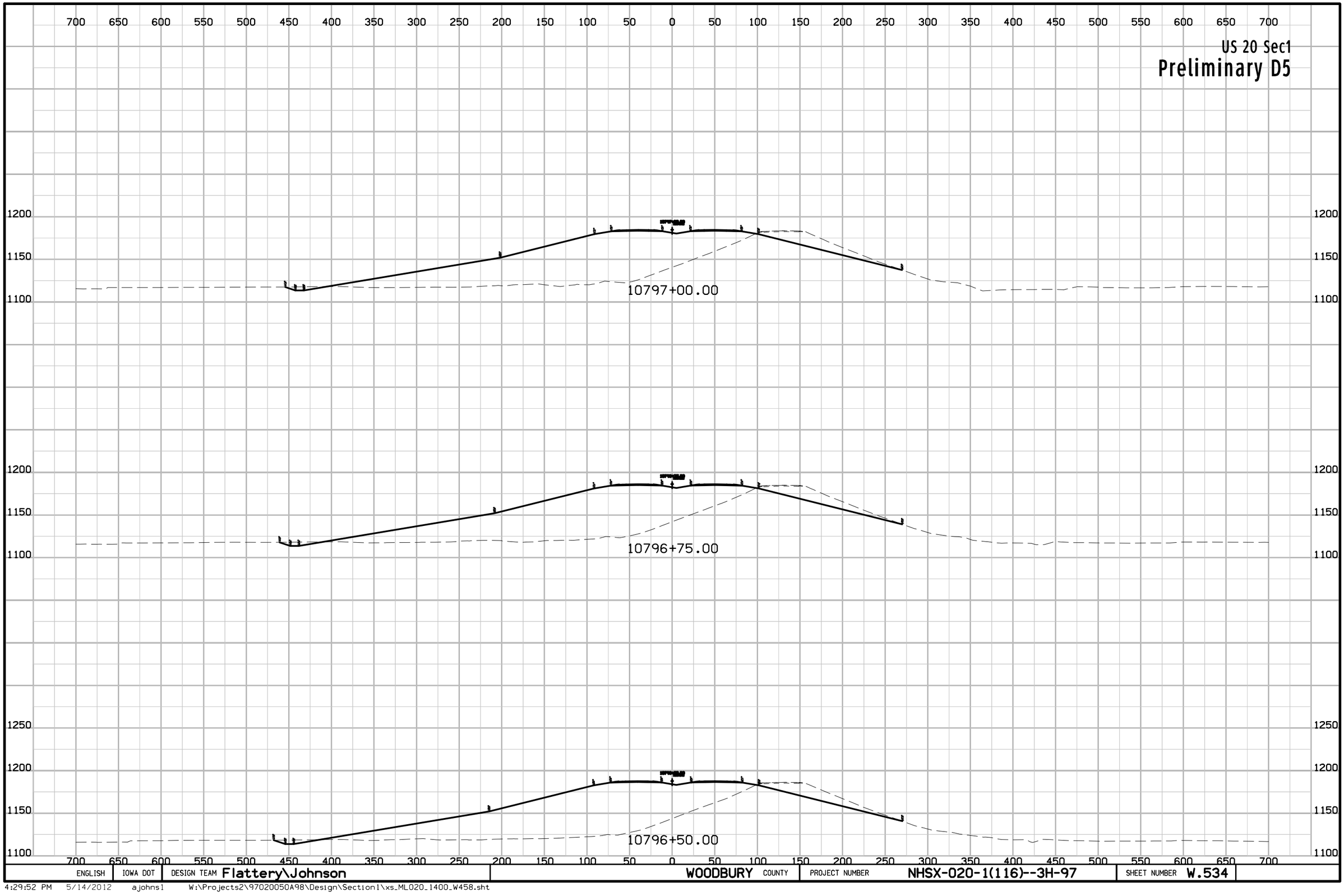
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.534

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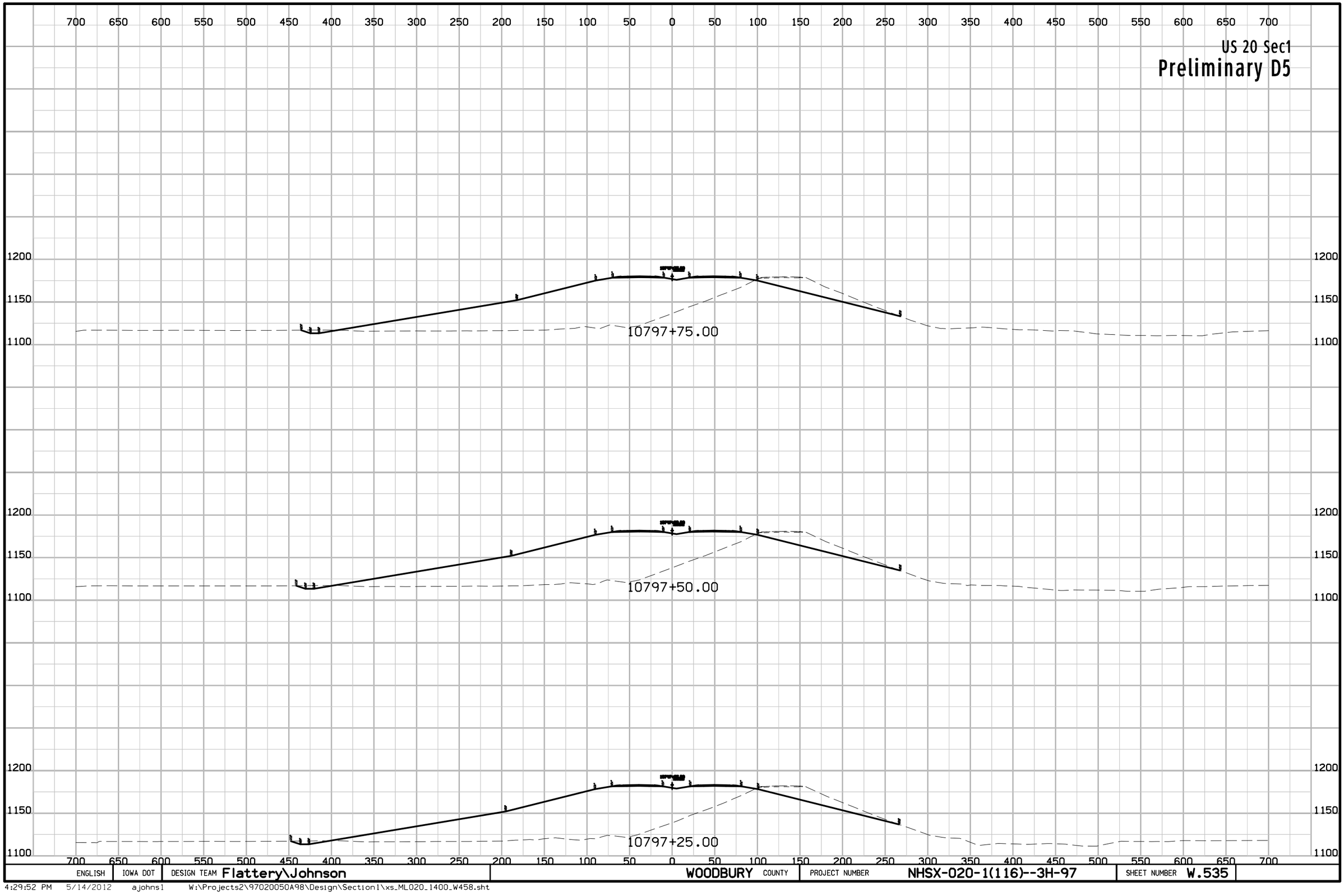
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

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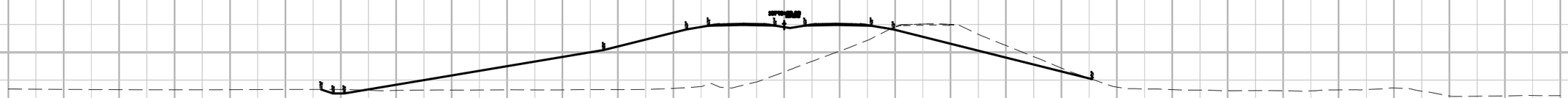
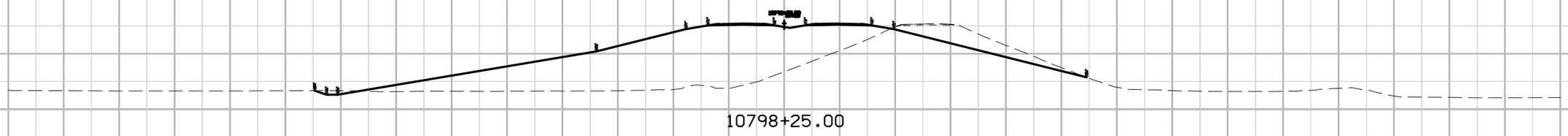
1200
1150
1100



10798+50.00



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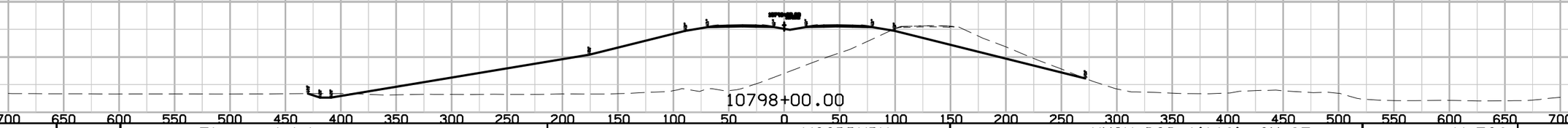

10798+00.00

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ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.536

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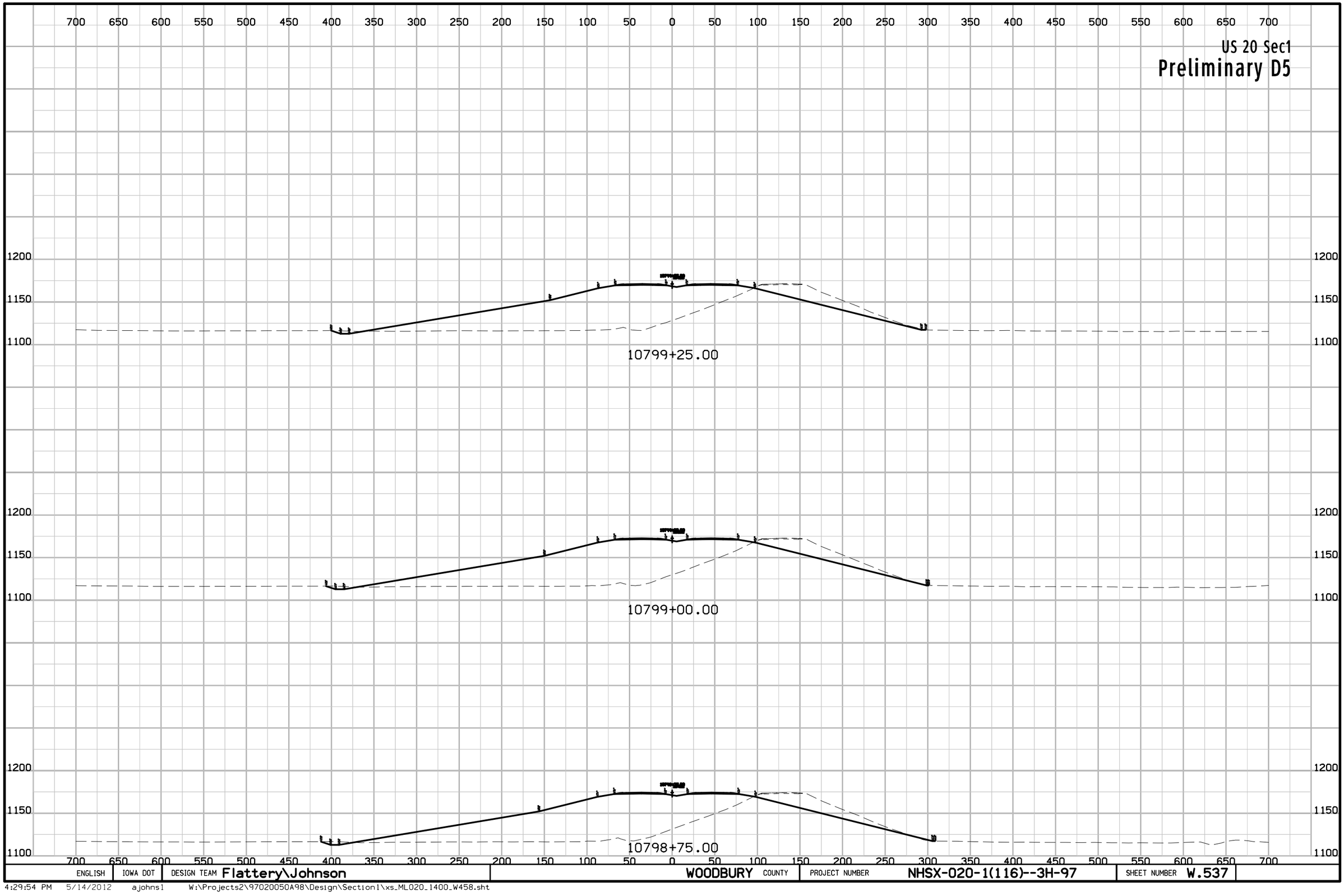
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.537

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US 20 Sec1

Preliminary D5

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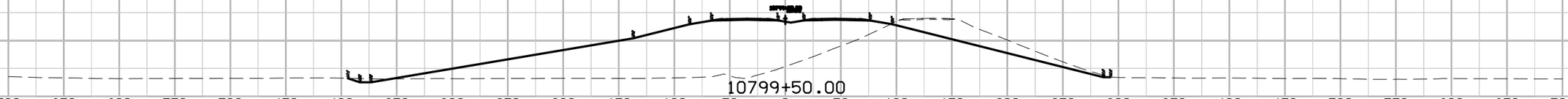
1200
1150
1100



10800+00.00



10799+75.00



10799+50.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.538

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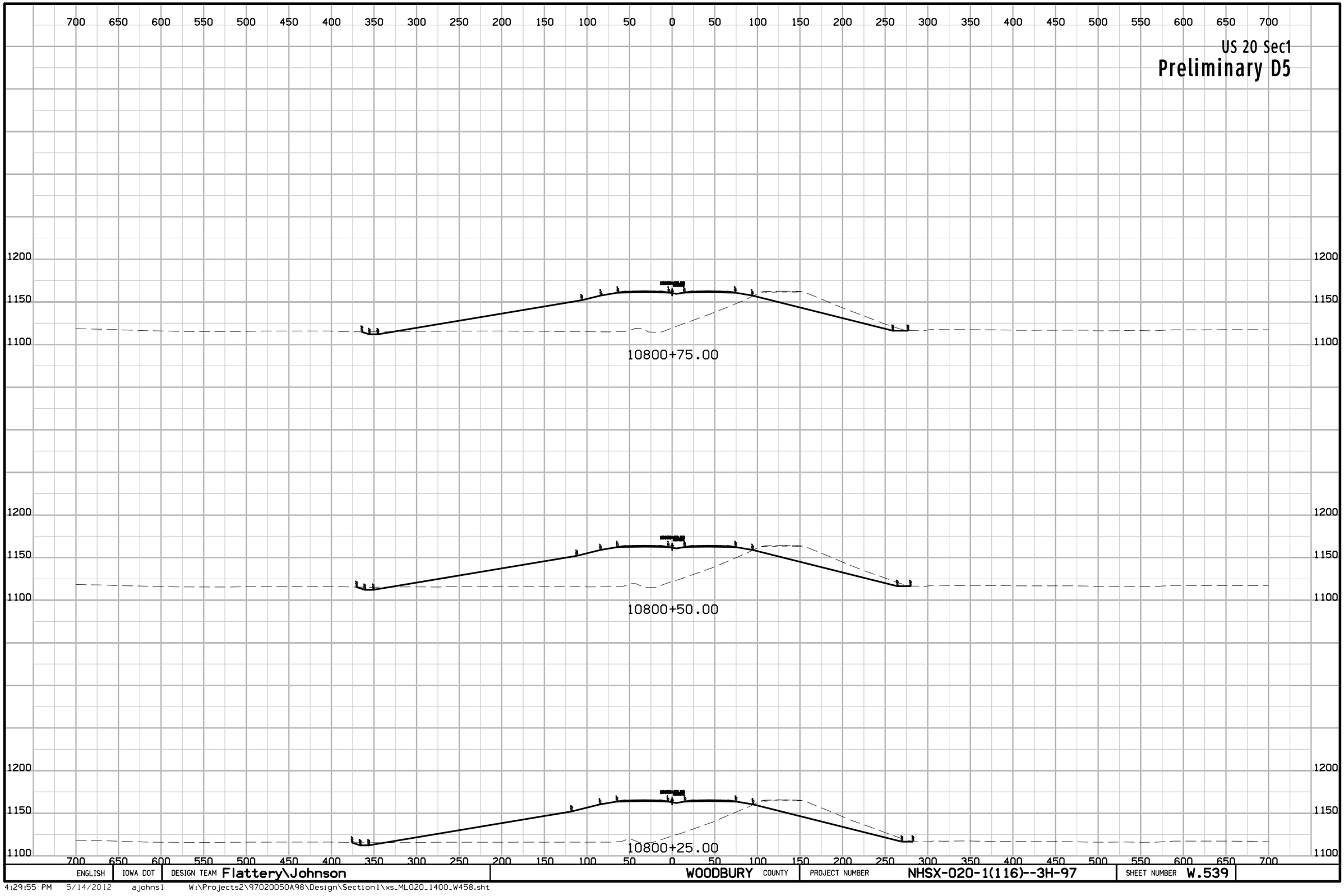
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.539

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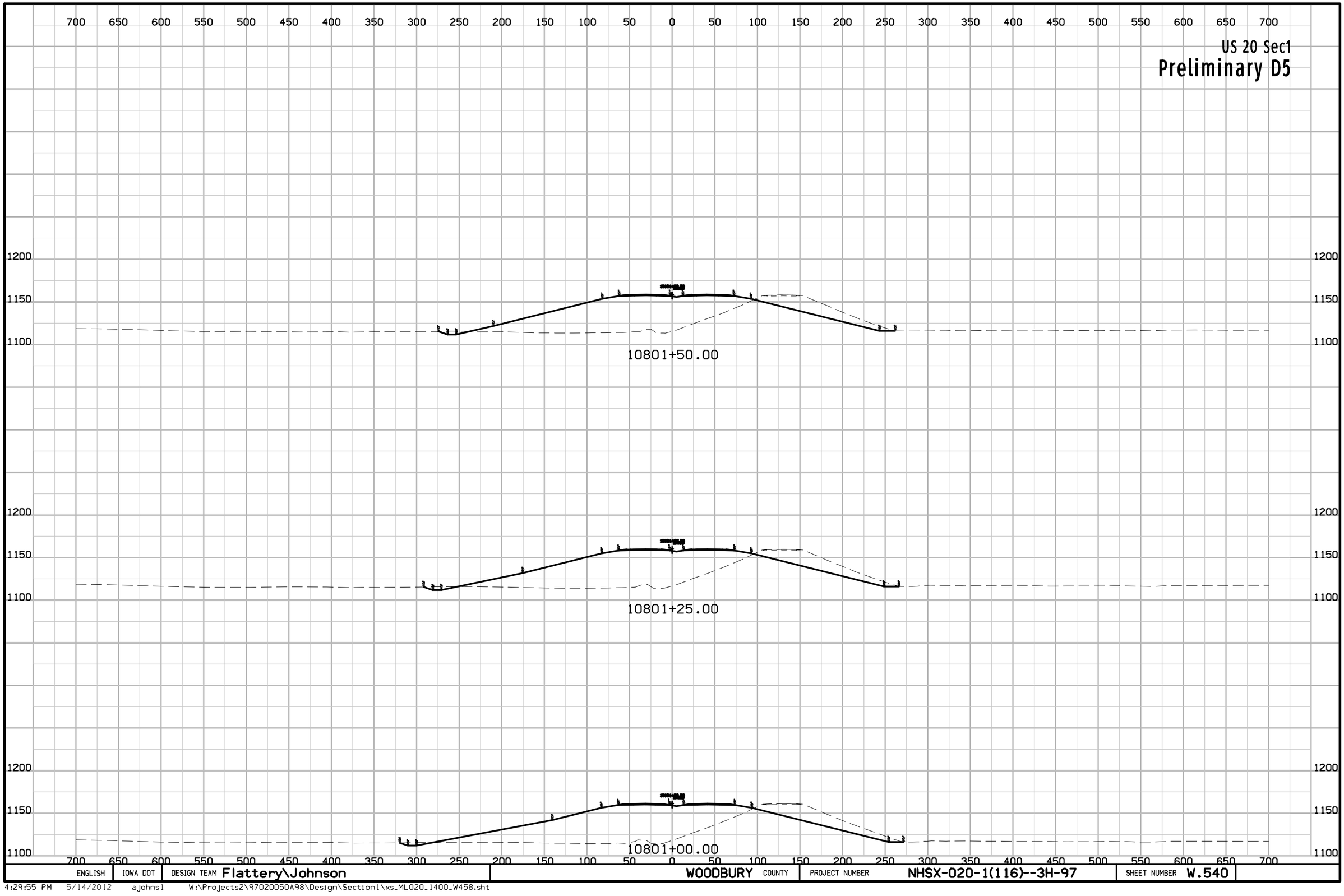
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

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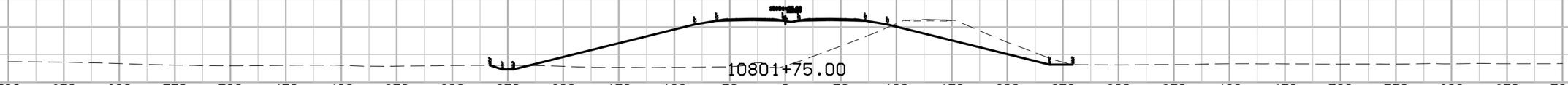
1200
1150
1100



10802+25.00



10802+00.00



10801+75.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.541

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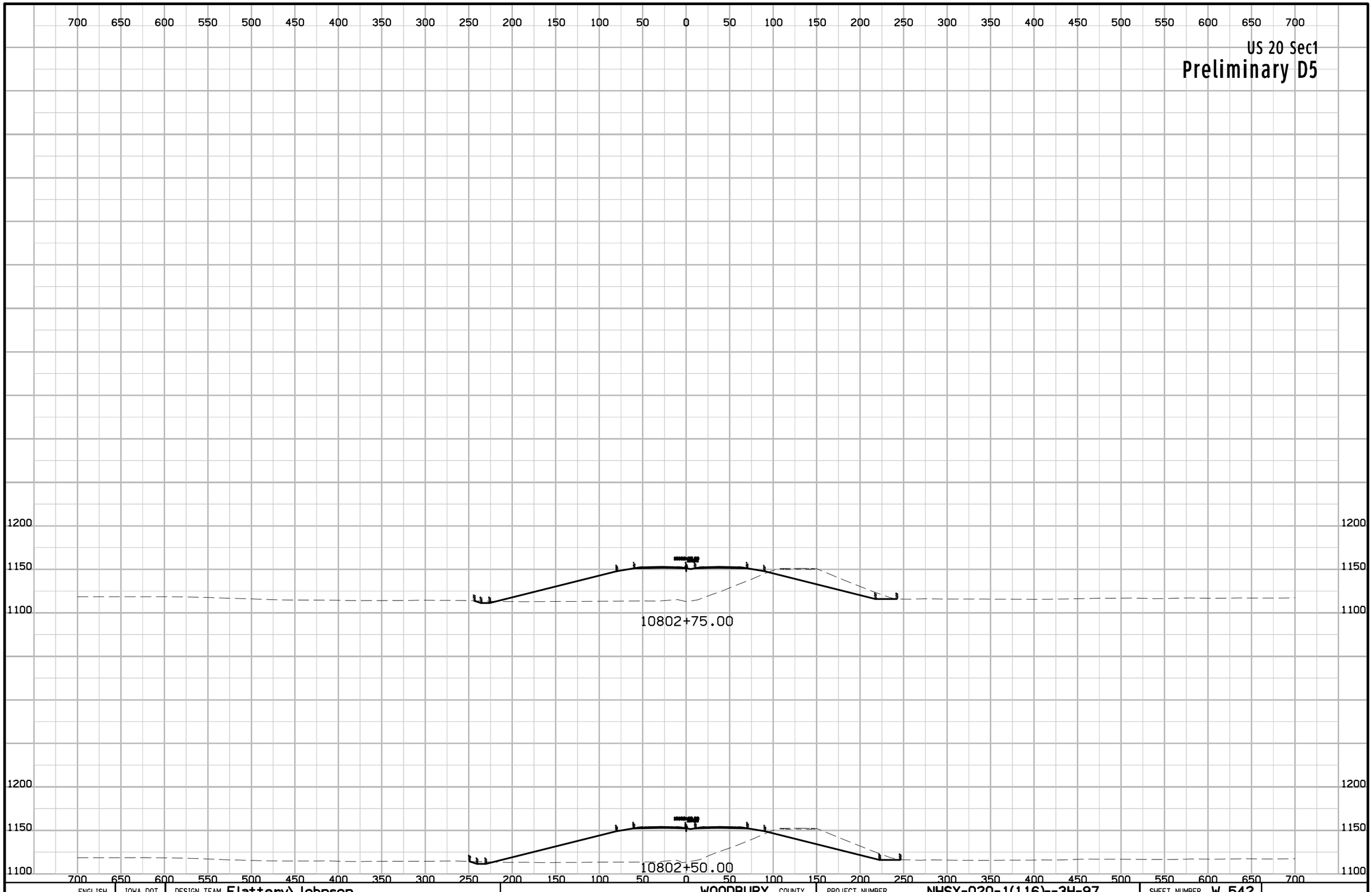
US 20 Sec1

Preliminary D5



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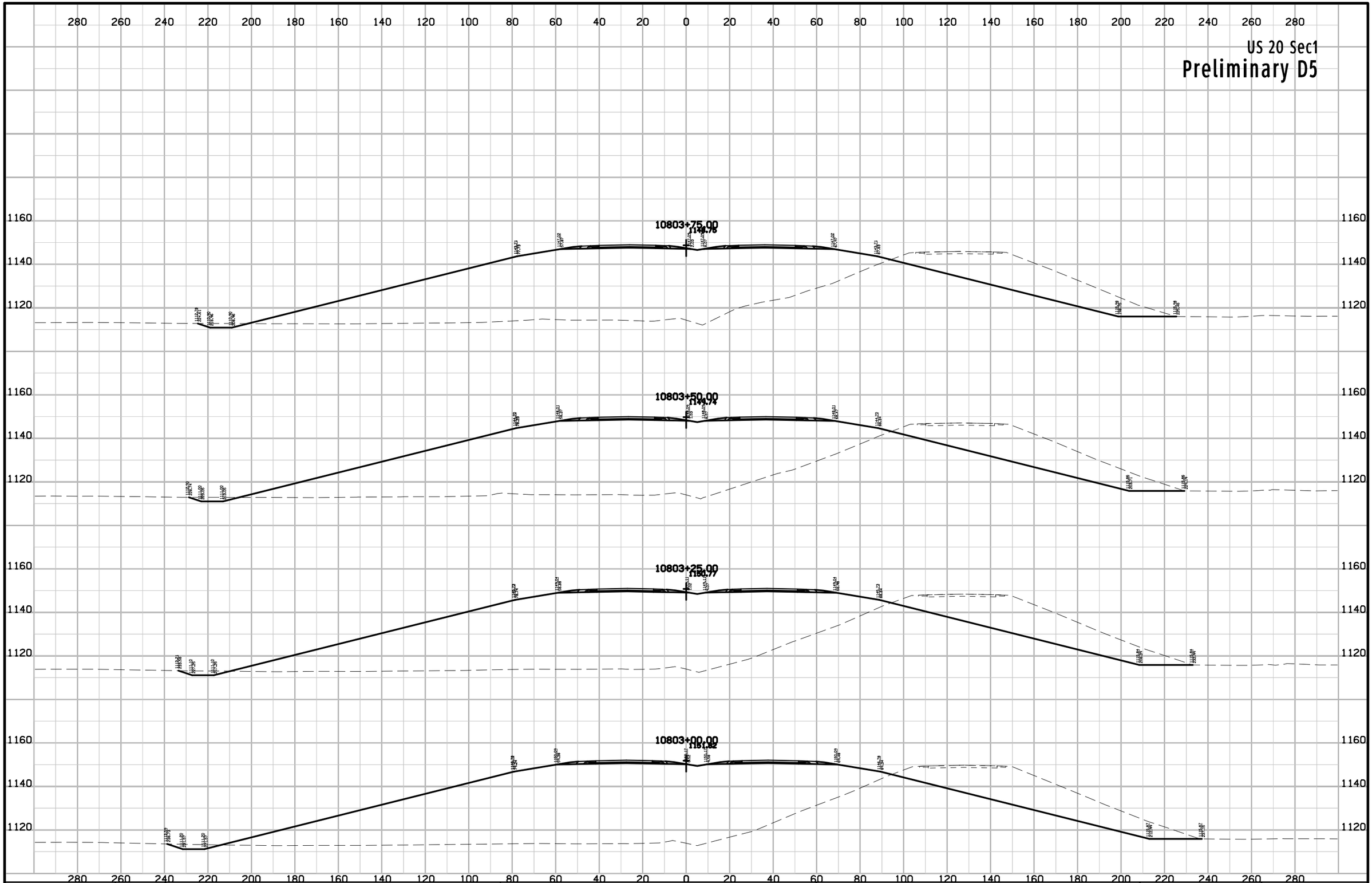
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.543

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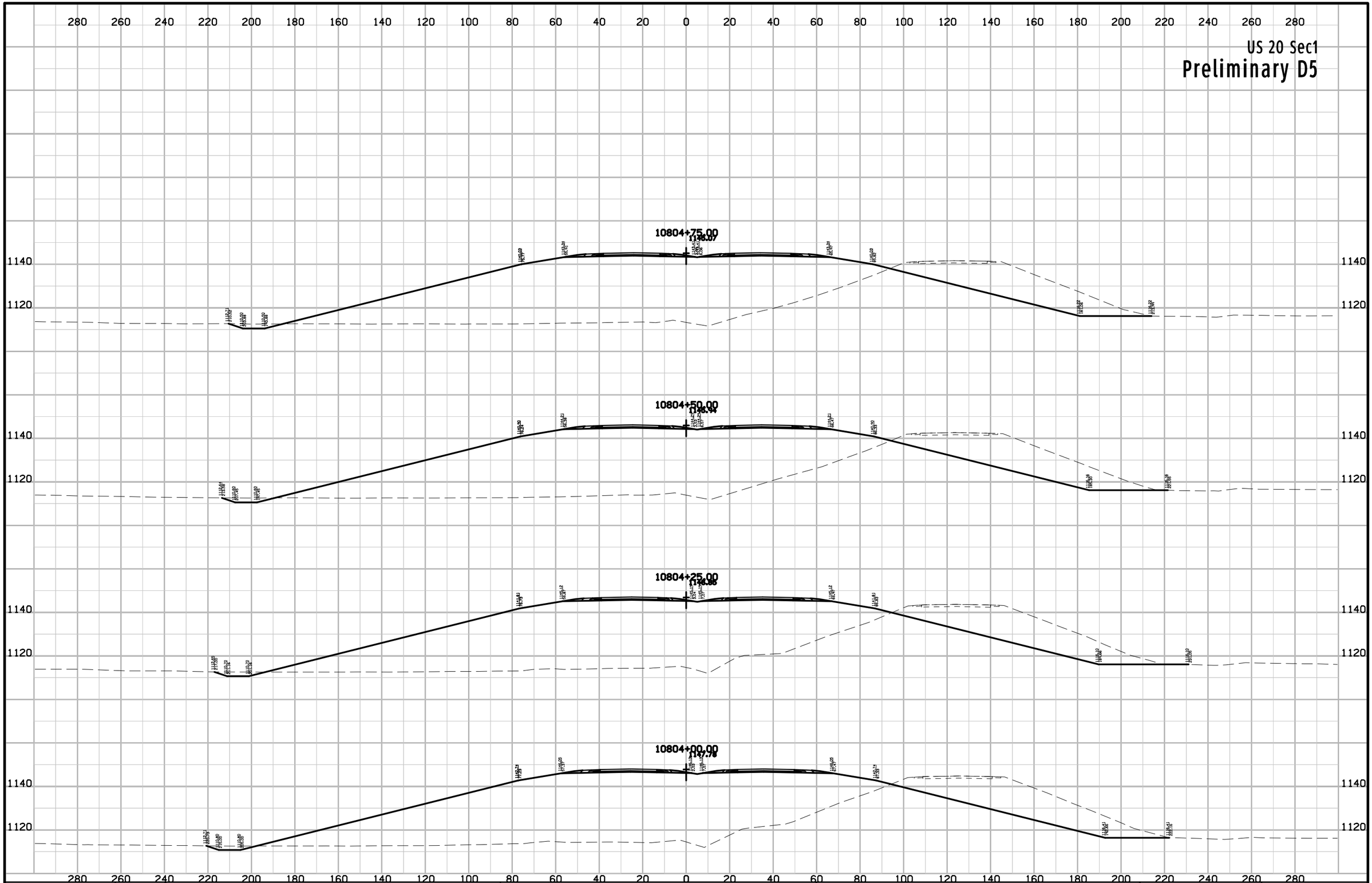
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.544

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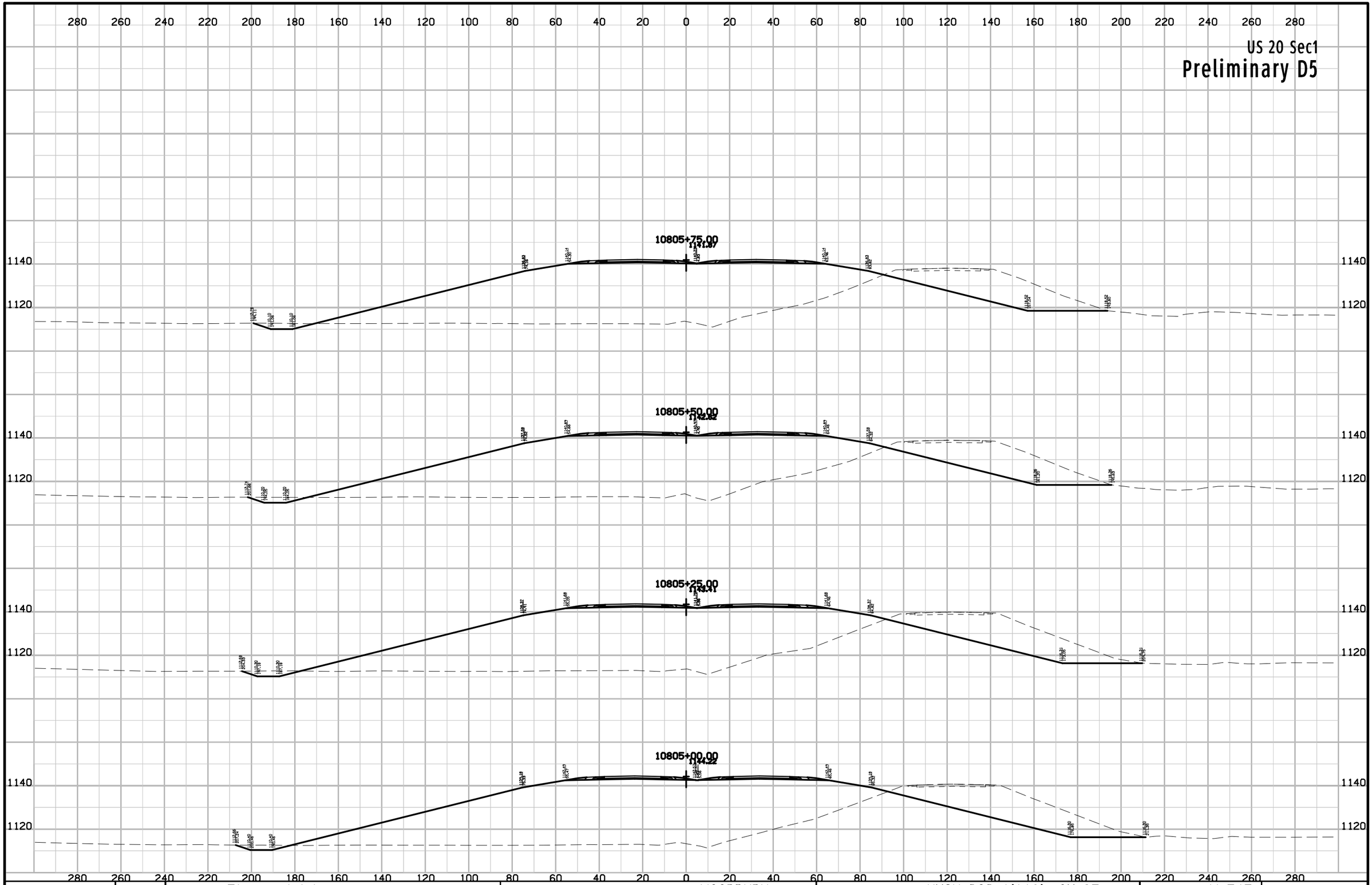
US 20 Sec1

Preliminary D5



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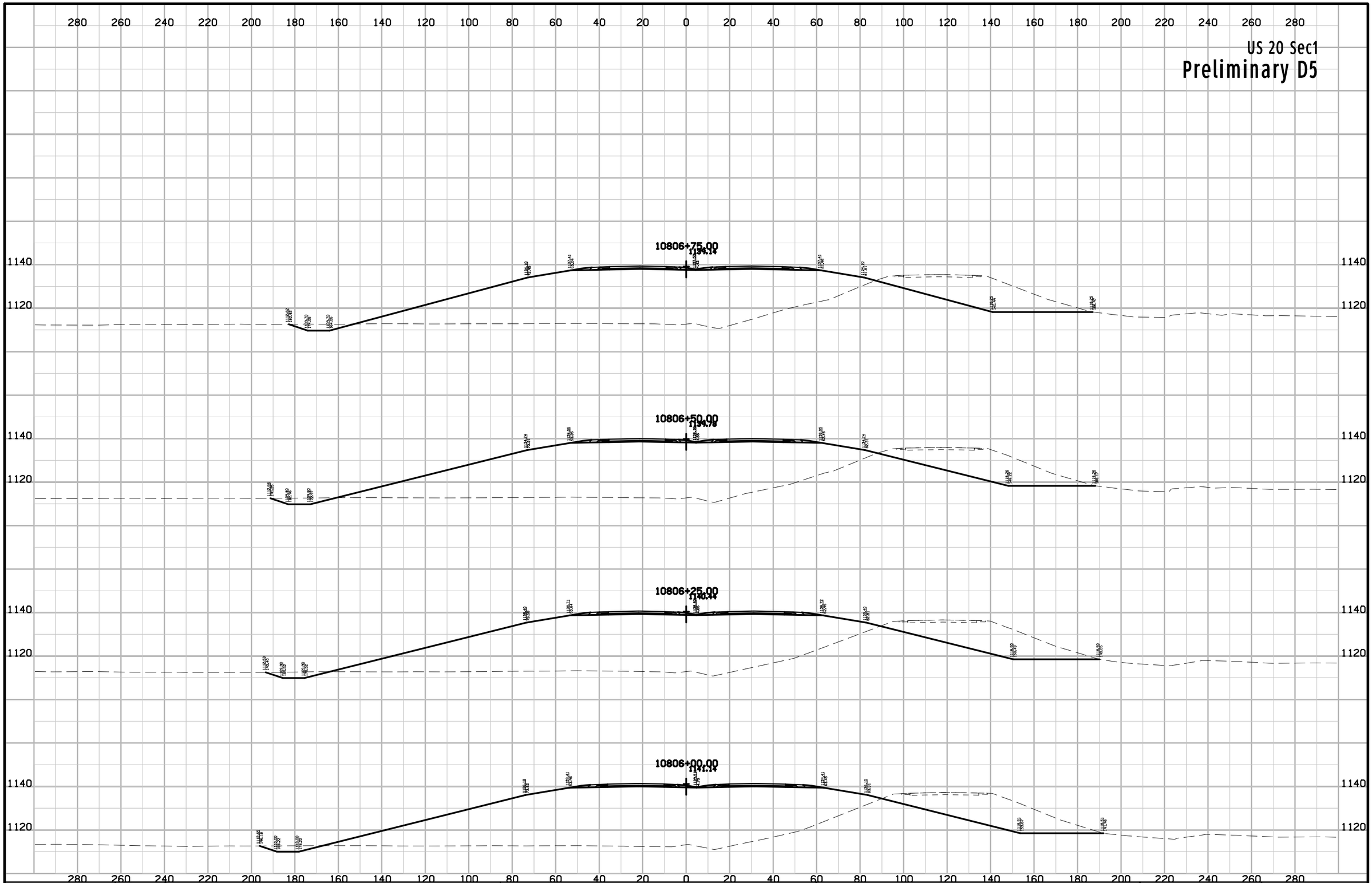
US 20 Sec1

Preliminary D5



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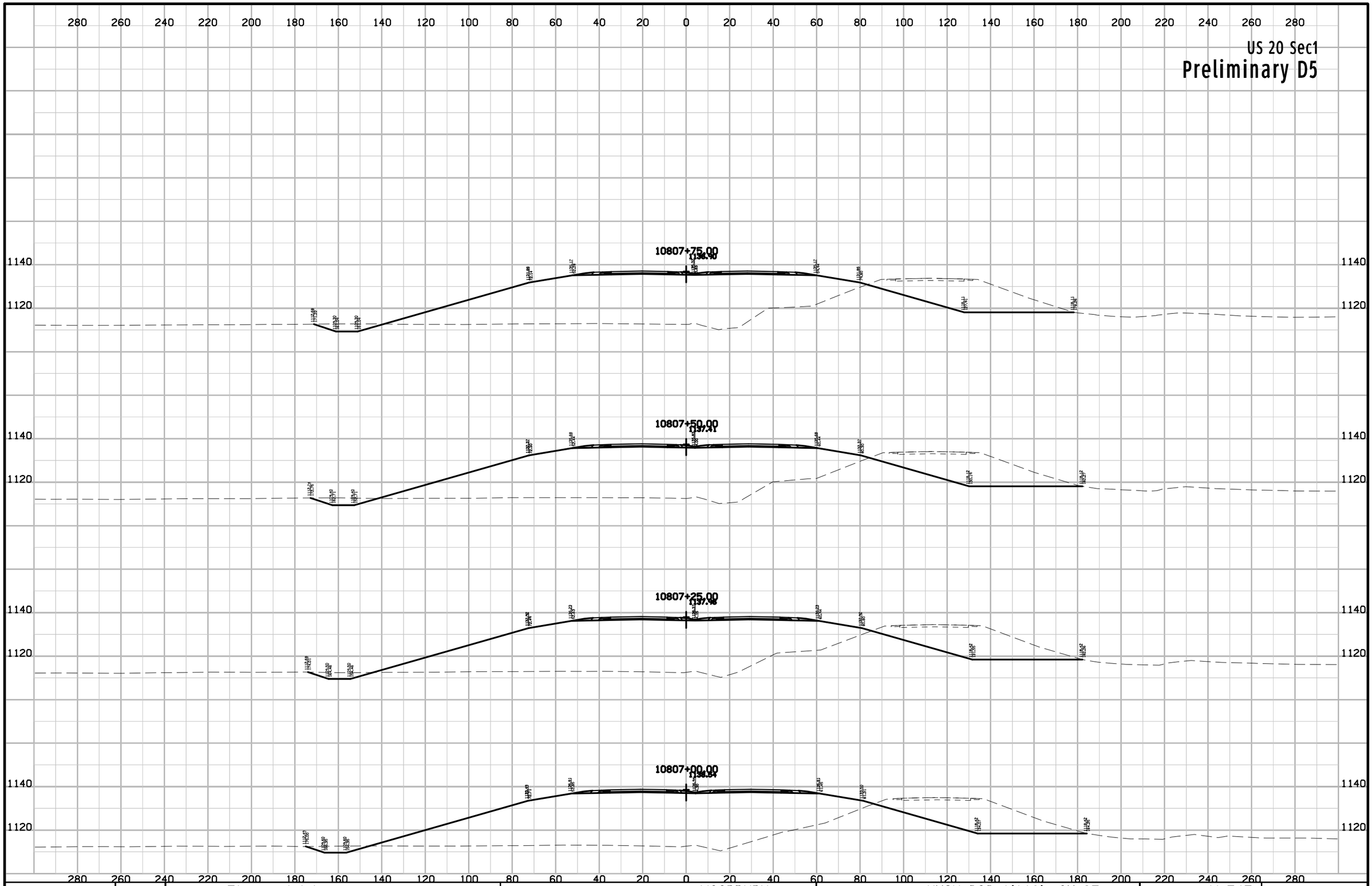
US 20 Sec1

Preliminary D5



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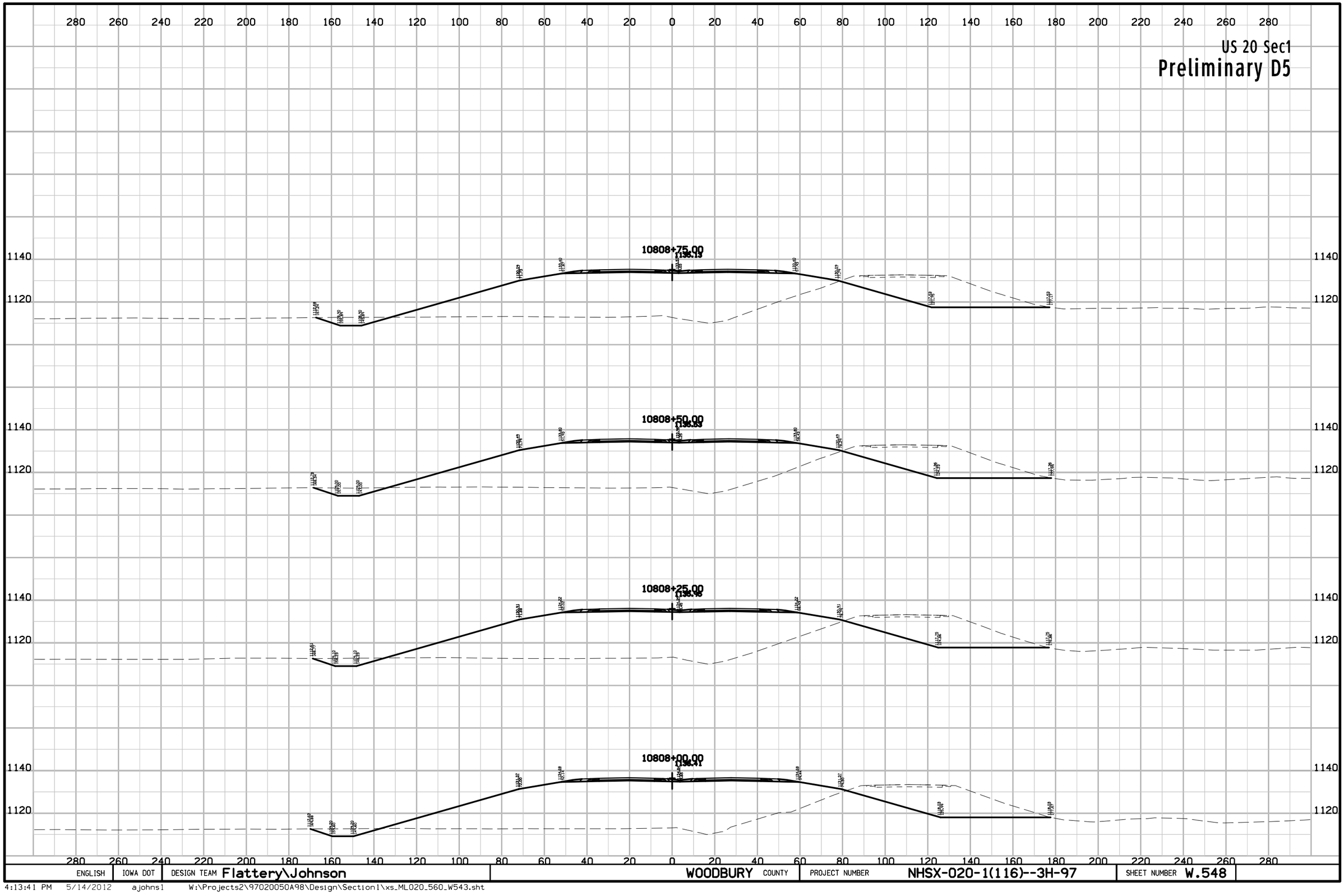
US 20 Sec1

Preliminary D5



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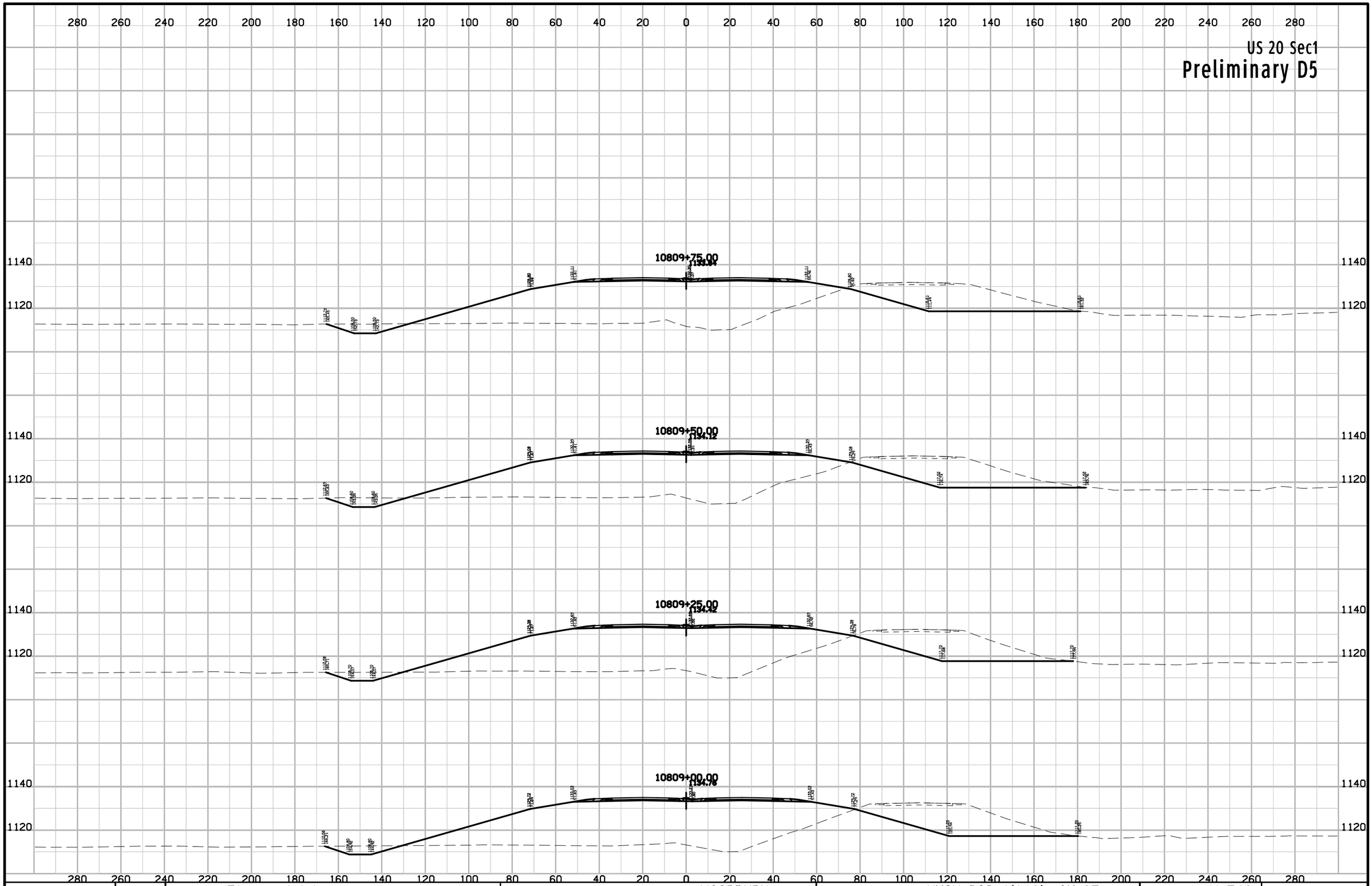
US 20 Sec1

Preliminary D5



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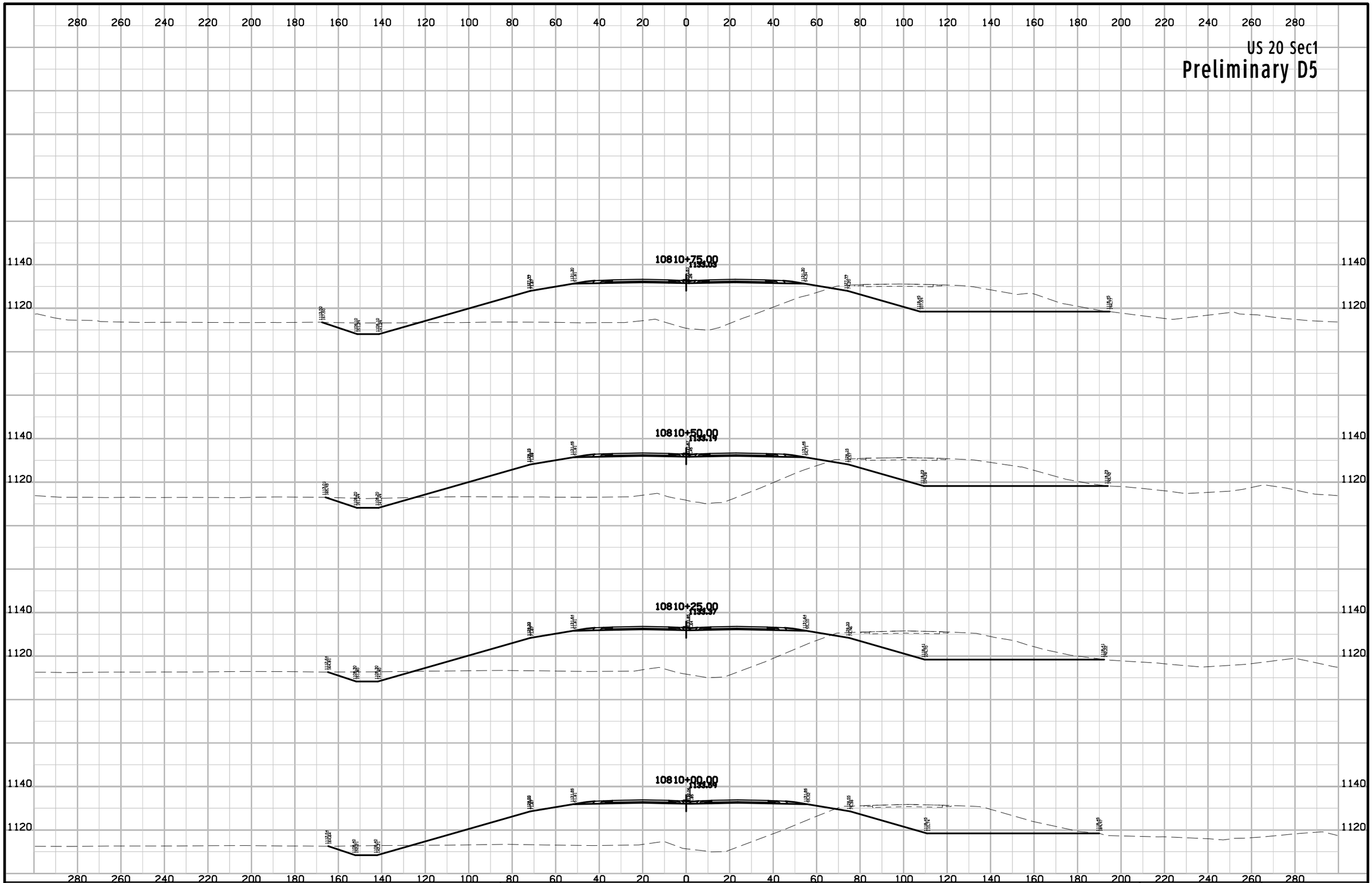
US 20 Sec1

Preliminary D5



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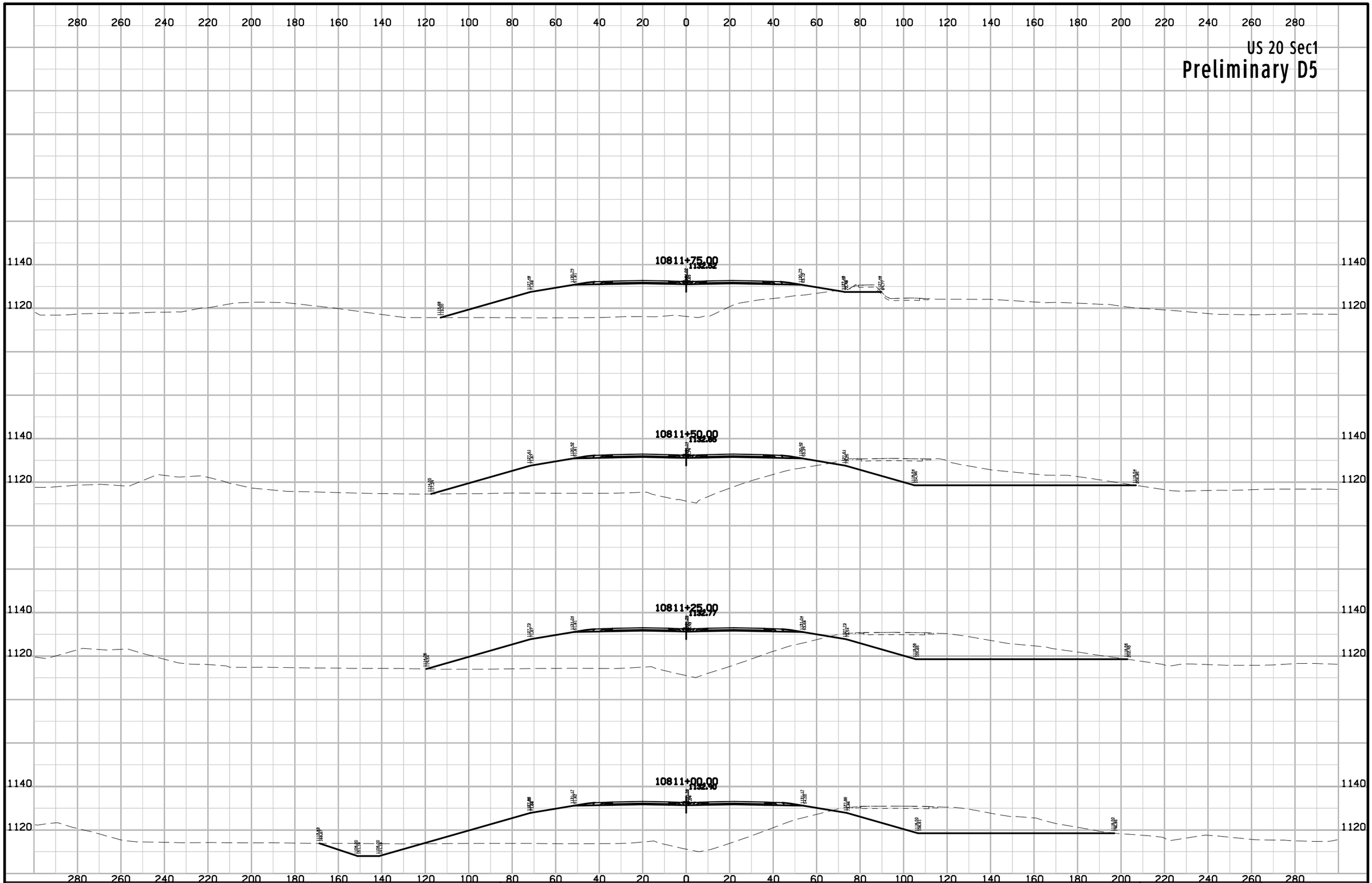
US 20 Sec1

Preliminary D5



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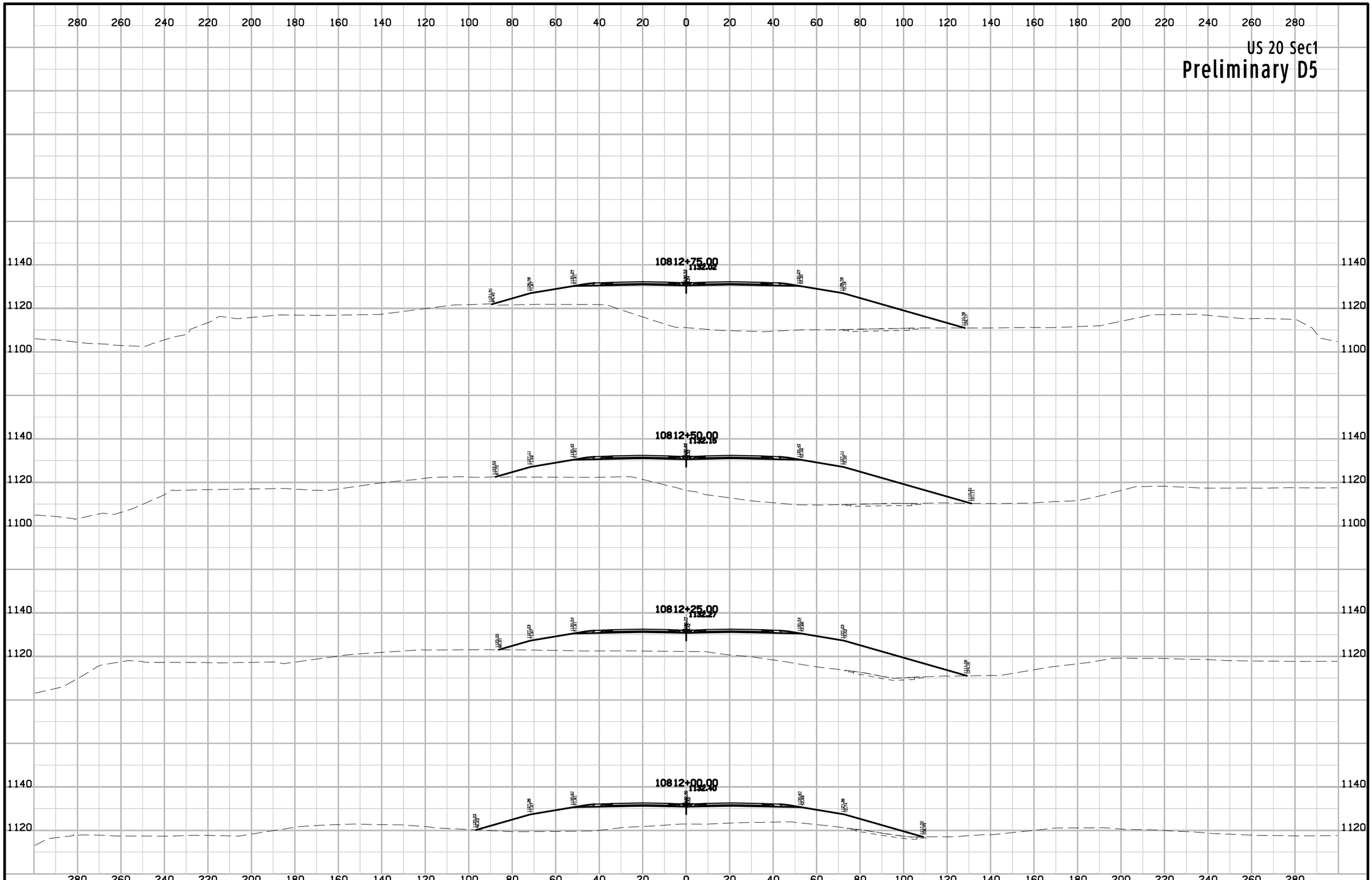
US 20 Sec1

Preliminary D5



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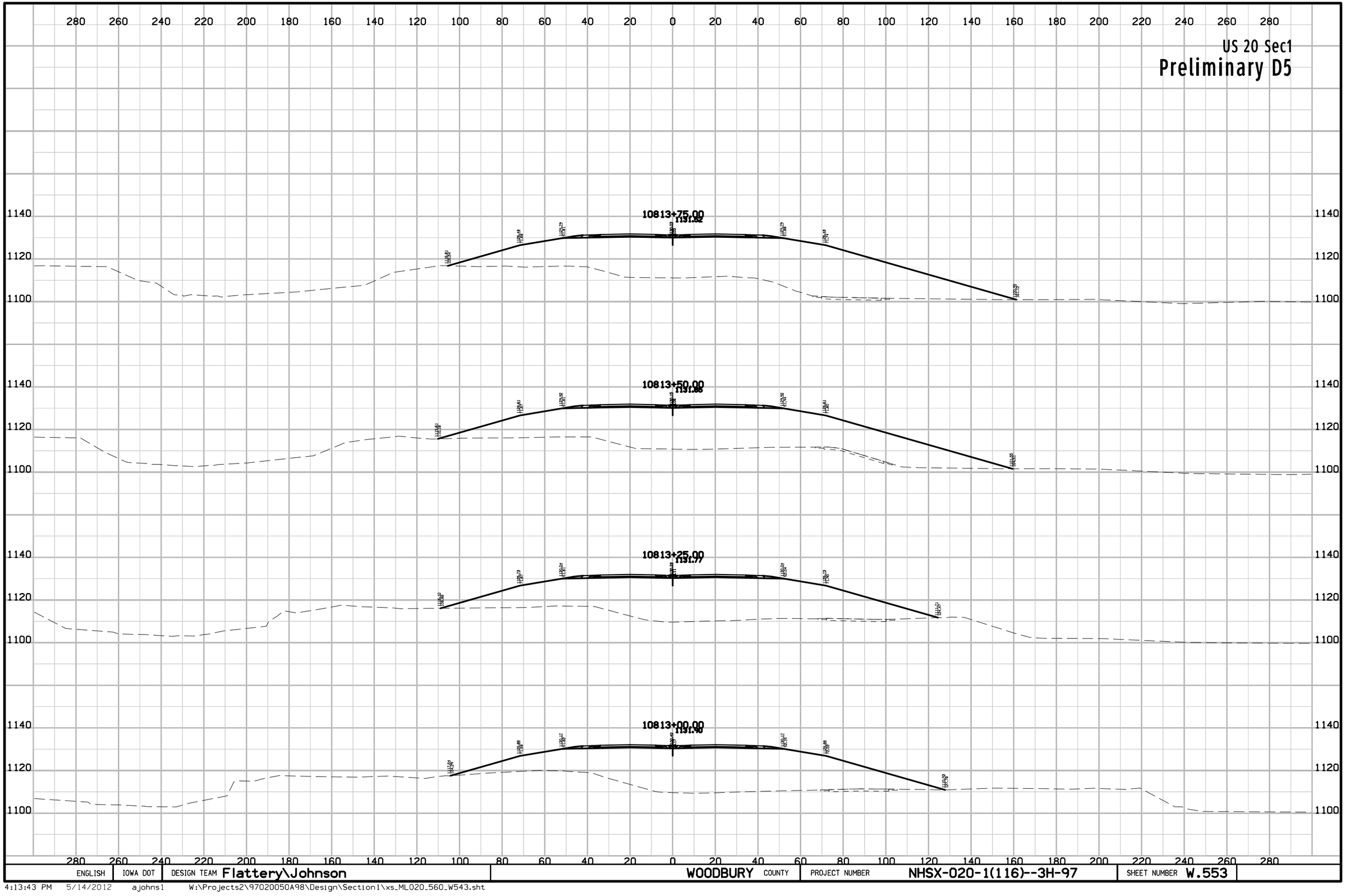
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.553

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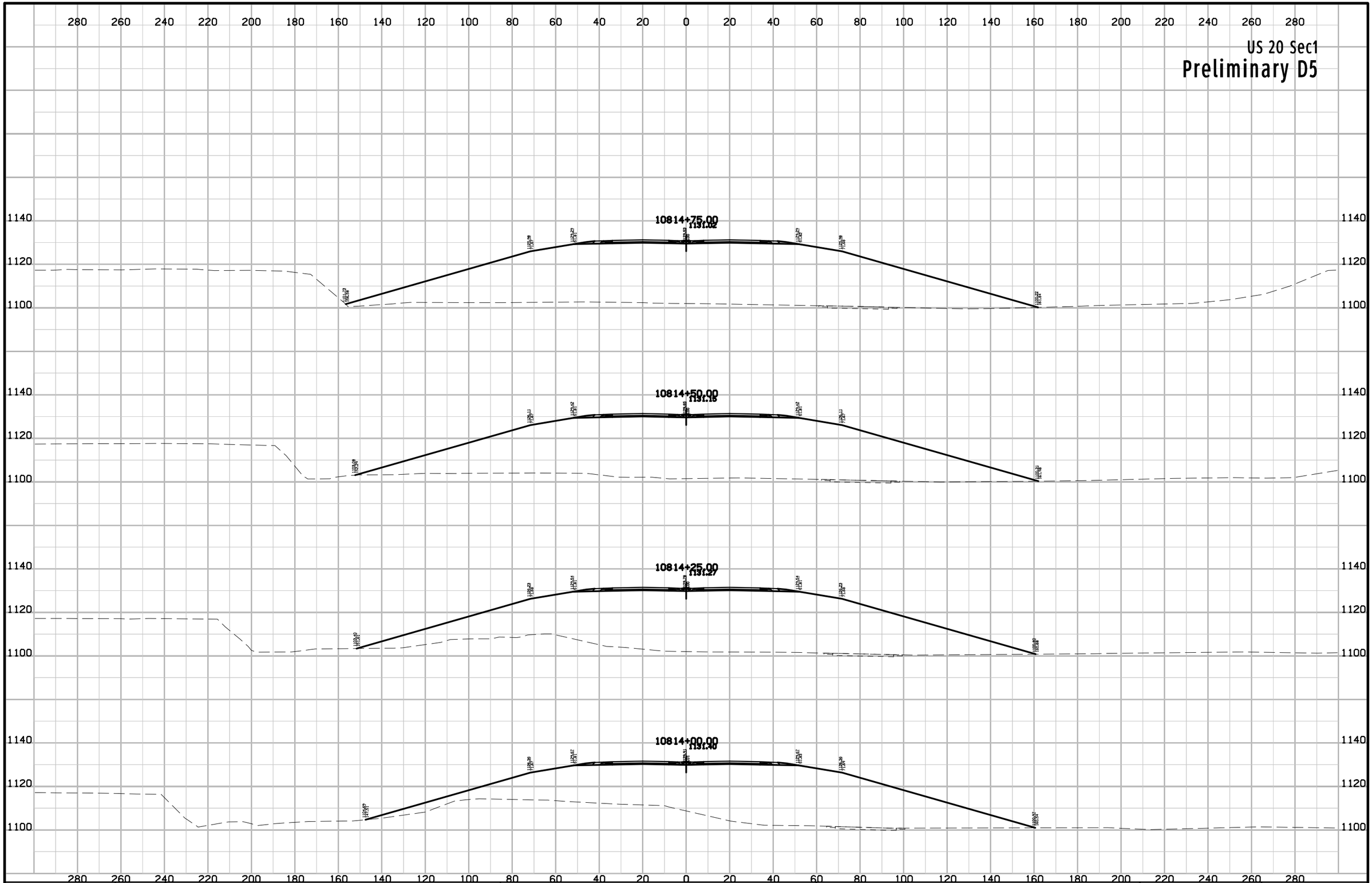
US 20 Sec1

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.554

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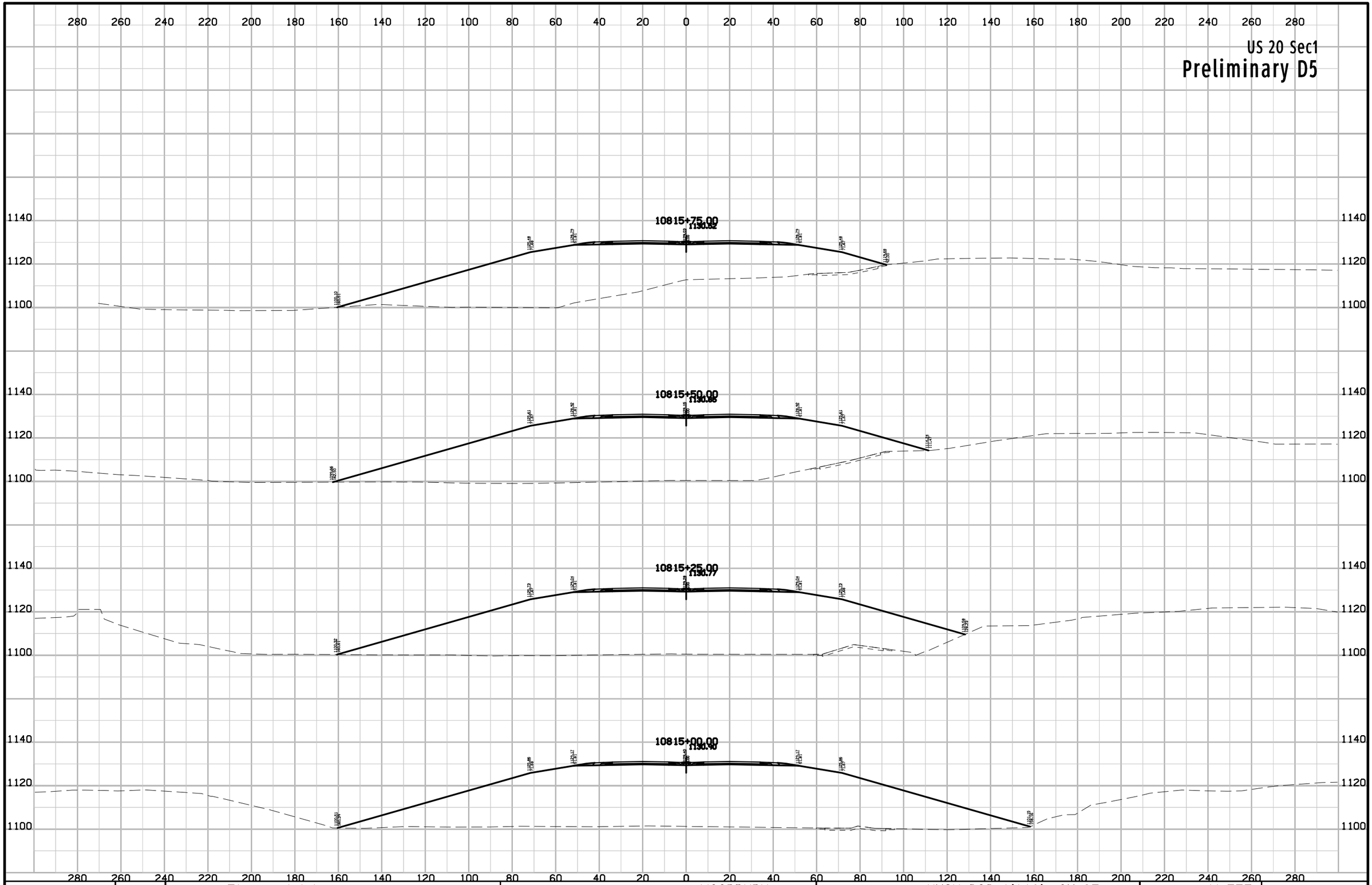
US 20 Sec1

Preliminary D5



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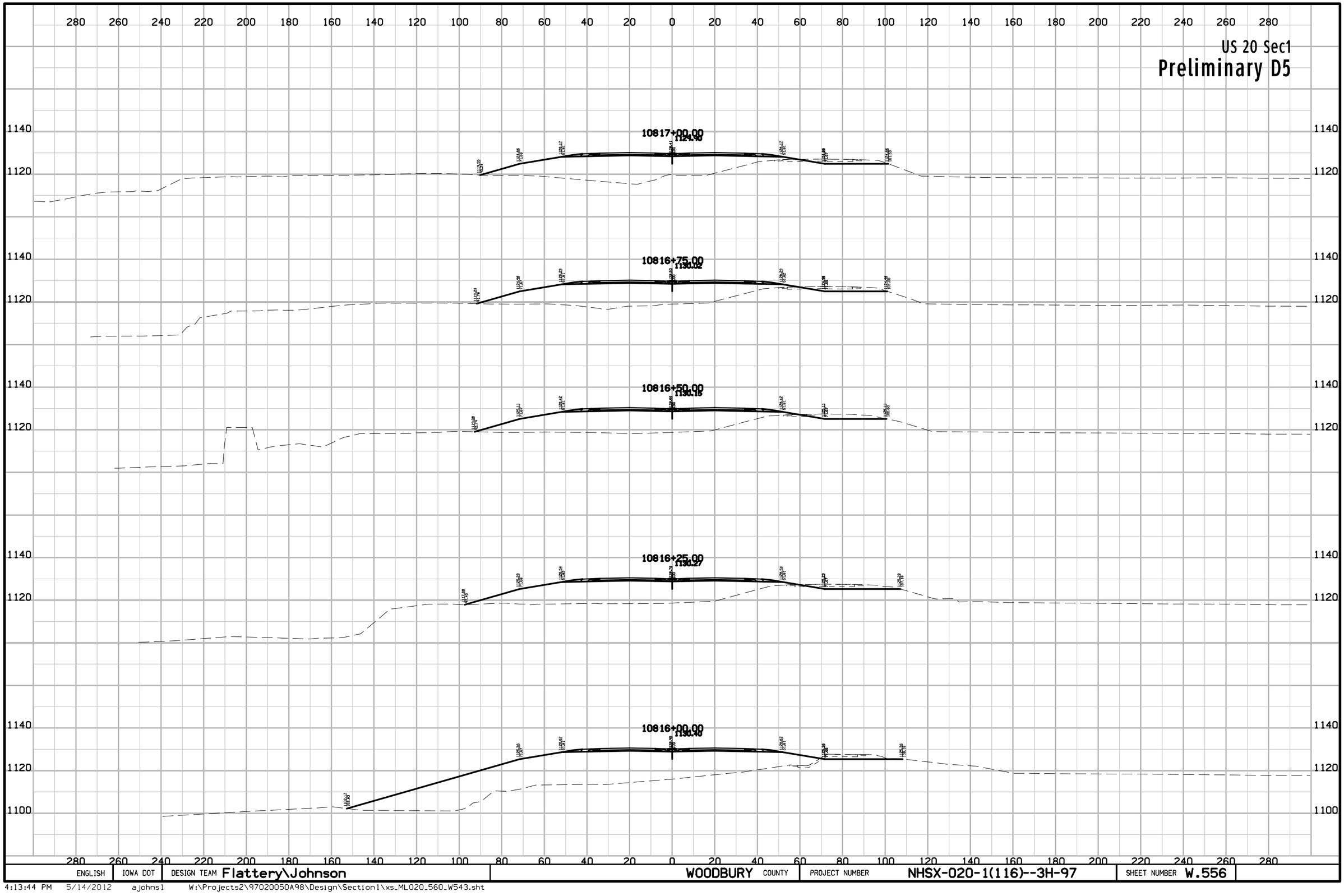
US 20 Sec1

Preliminary D5



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US 20 Sec1

Preliminary D5

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1140
1120

10818+50.00
1124.15

10818+25.00
1124.27

10818+00.00
1124.40

10817+75.00
1124.52

10817+50.00
1124.66

10817+25.00
1124.77

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.557

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US 20 Sec1

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1140
1120

10820+00.00
1126.40

10819+75.00
1126.52

10819+50.00
1126.66

10819+25.00
1126.77

10819+00.00
1126.90

10818+75.00
1124.02

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.558

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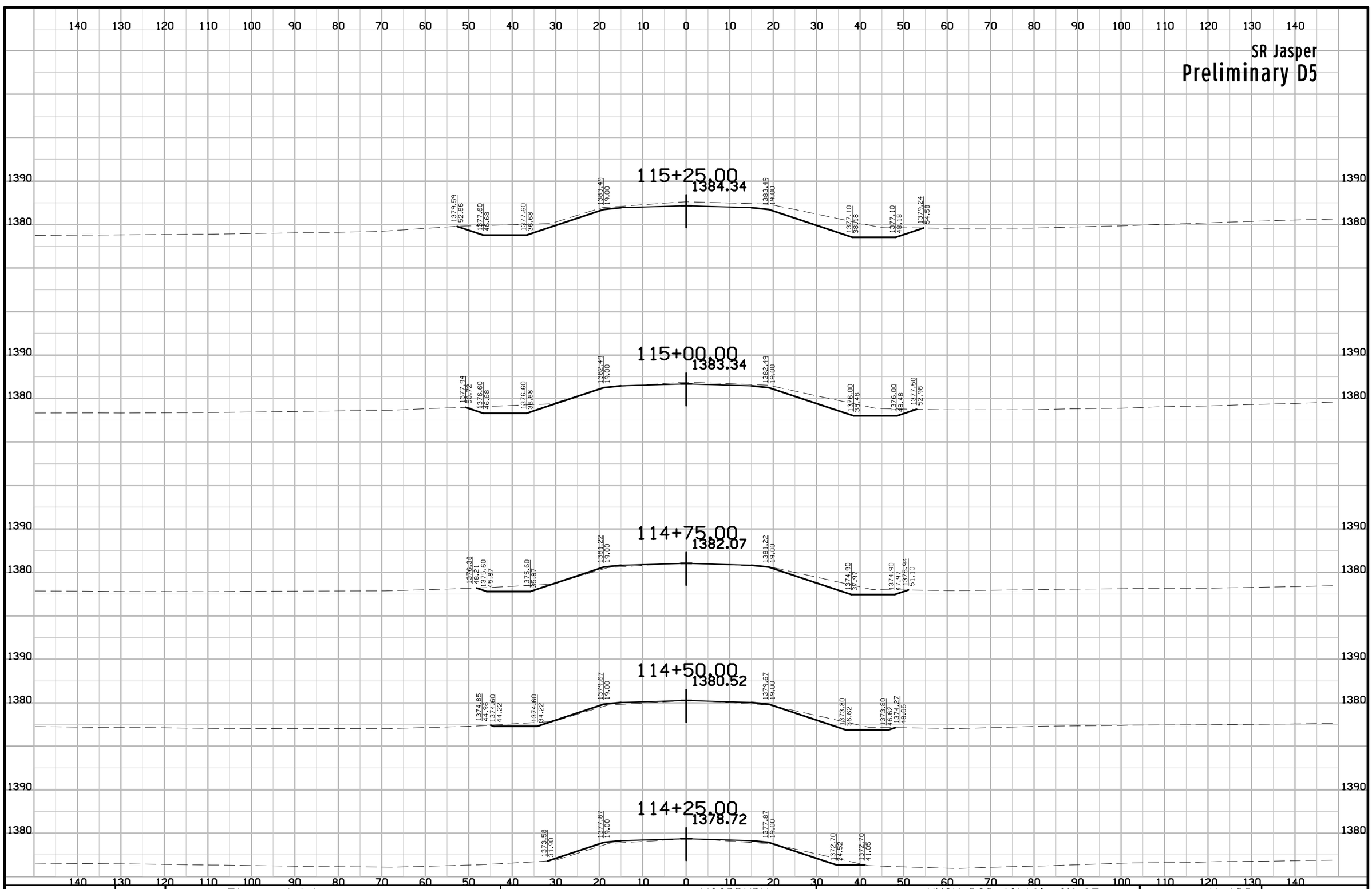
SR Jasper

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.100

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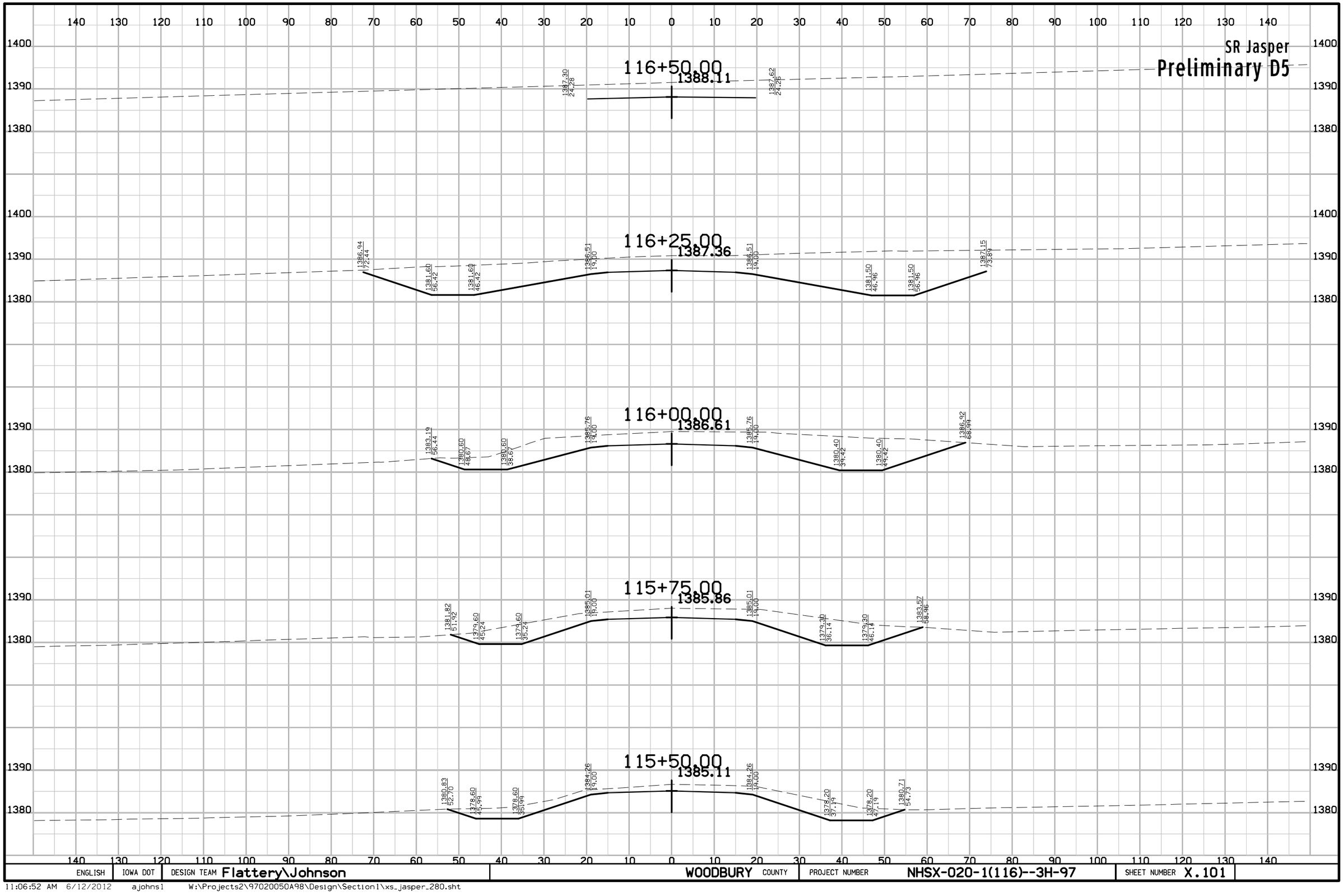
SR Jasper

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.101

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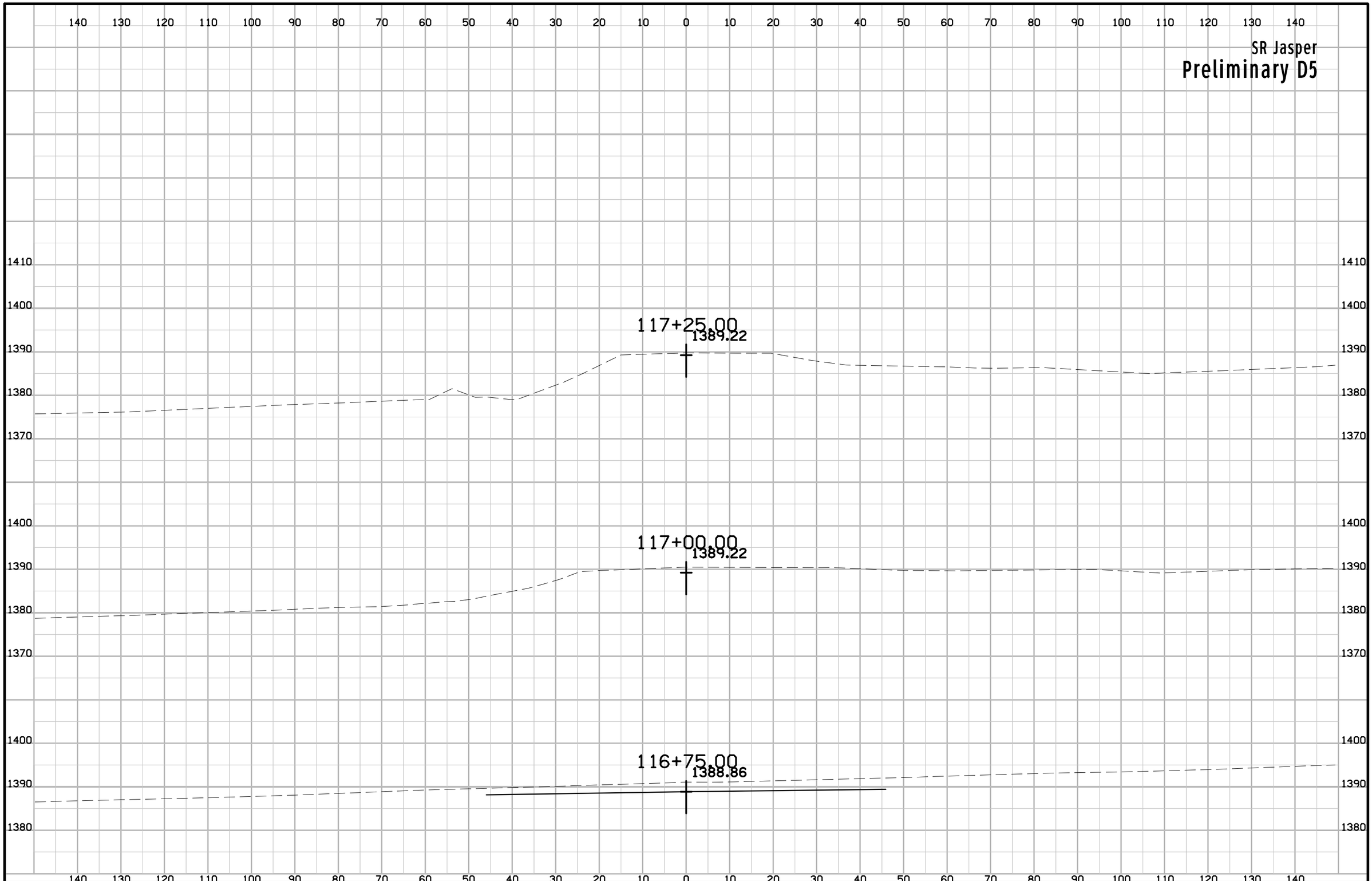
SR Jasper

Preliminary D5



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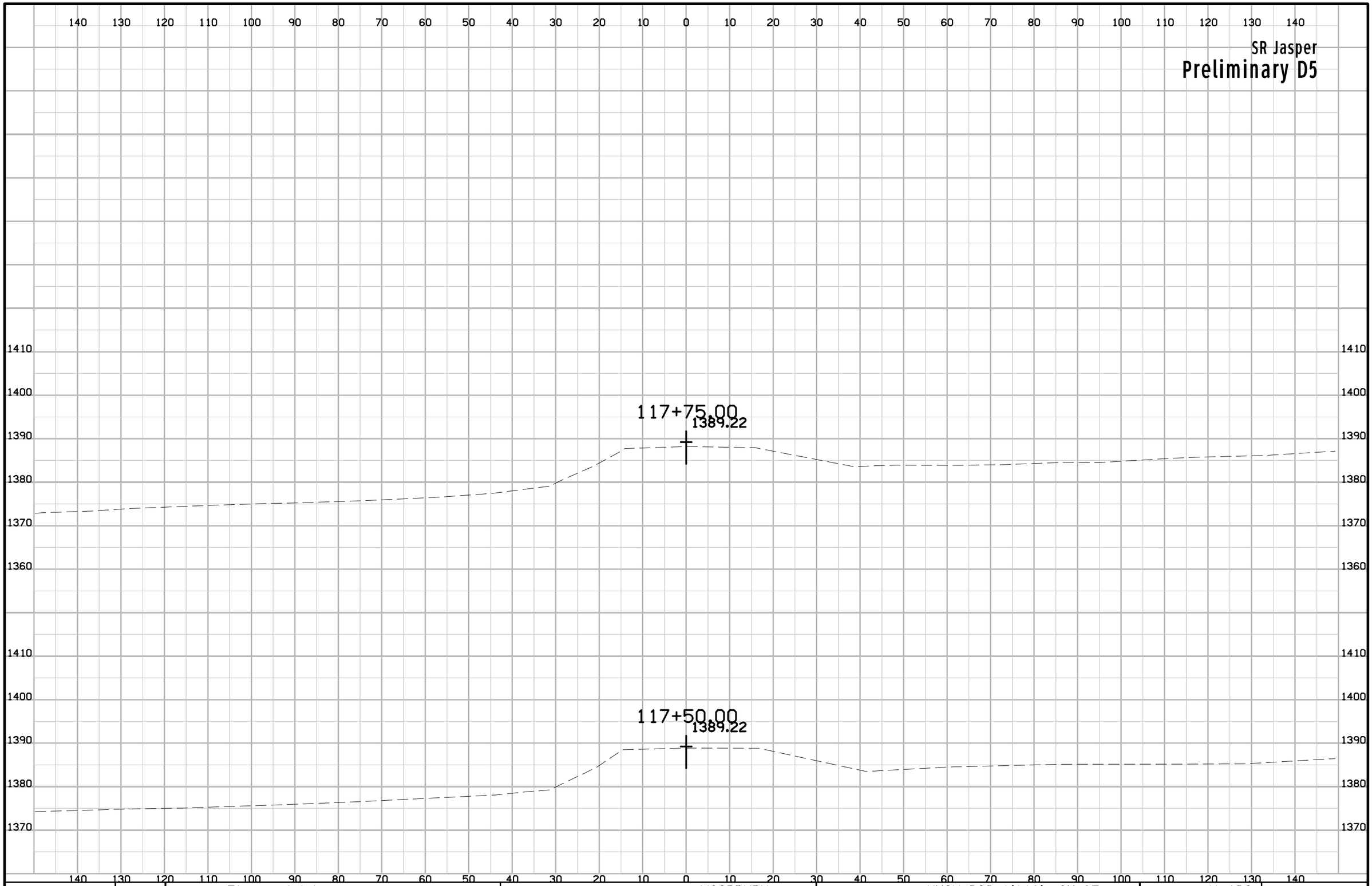
SR Jasper

Preliminary D5



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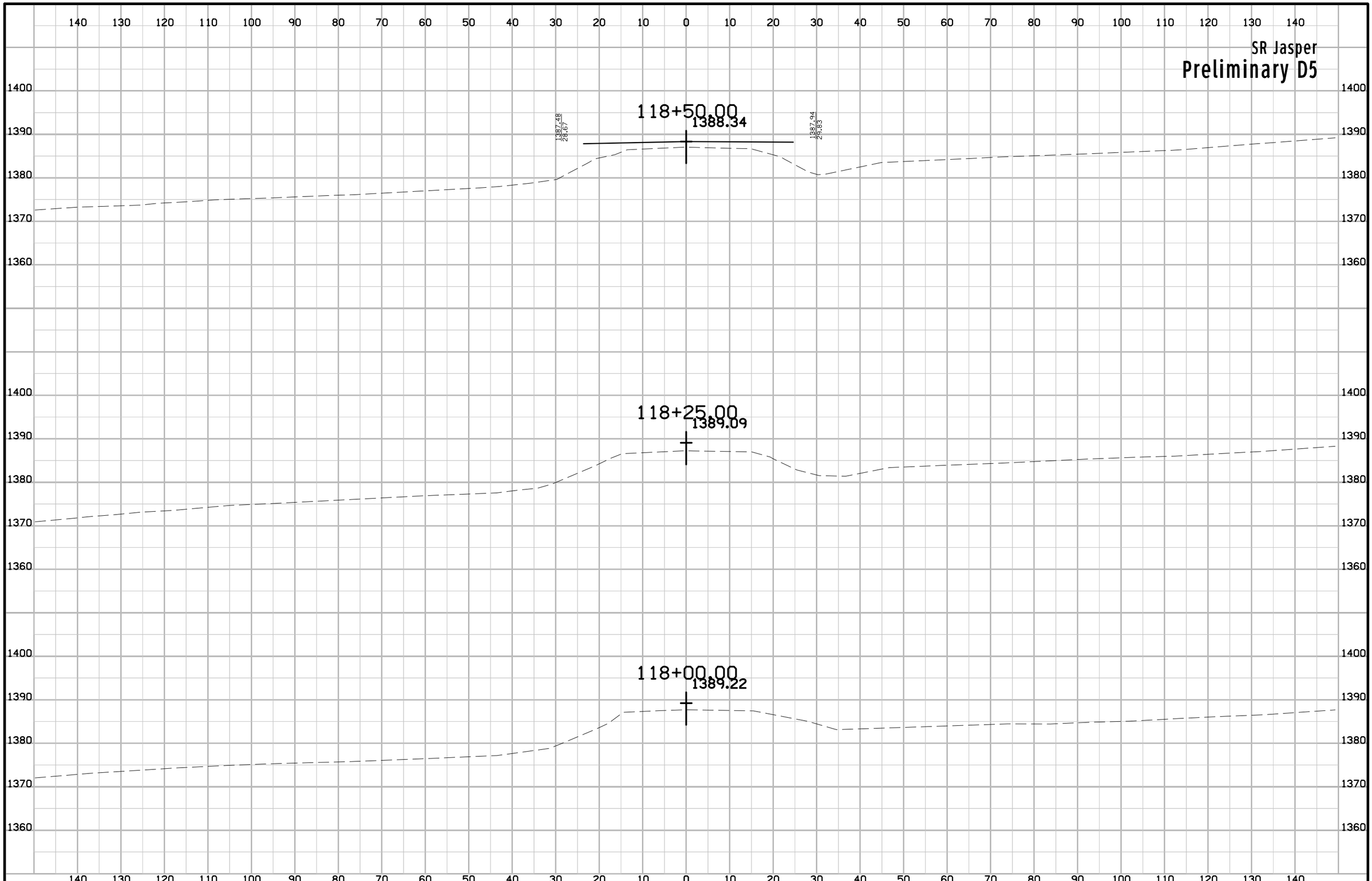
SR Jasper

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.104

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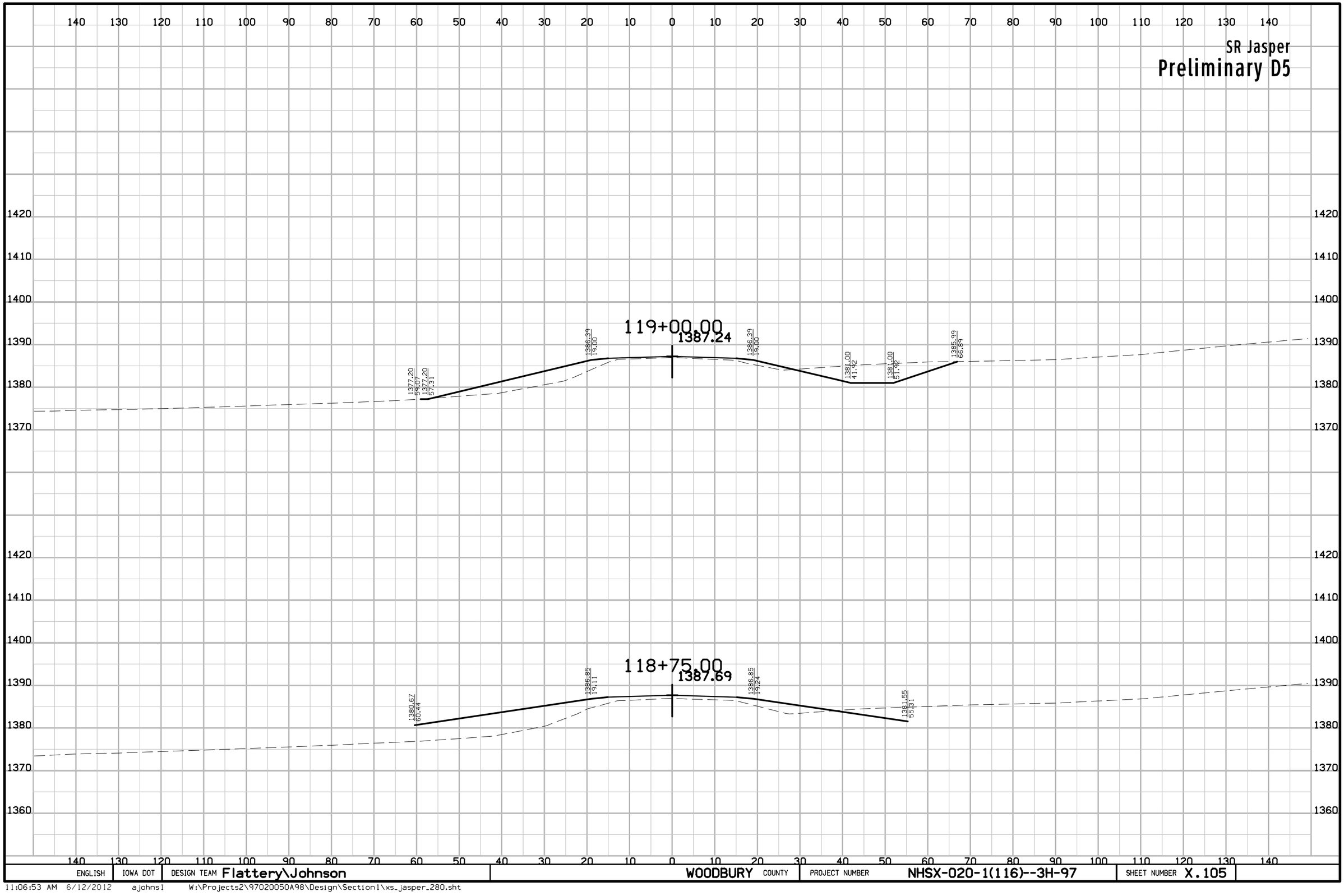
SR Jasper

Preliminary D5



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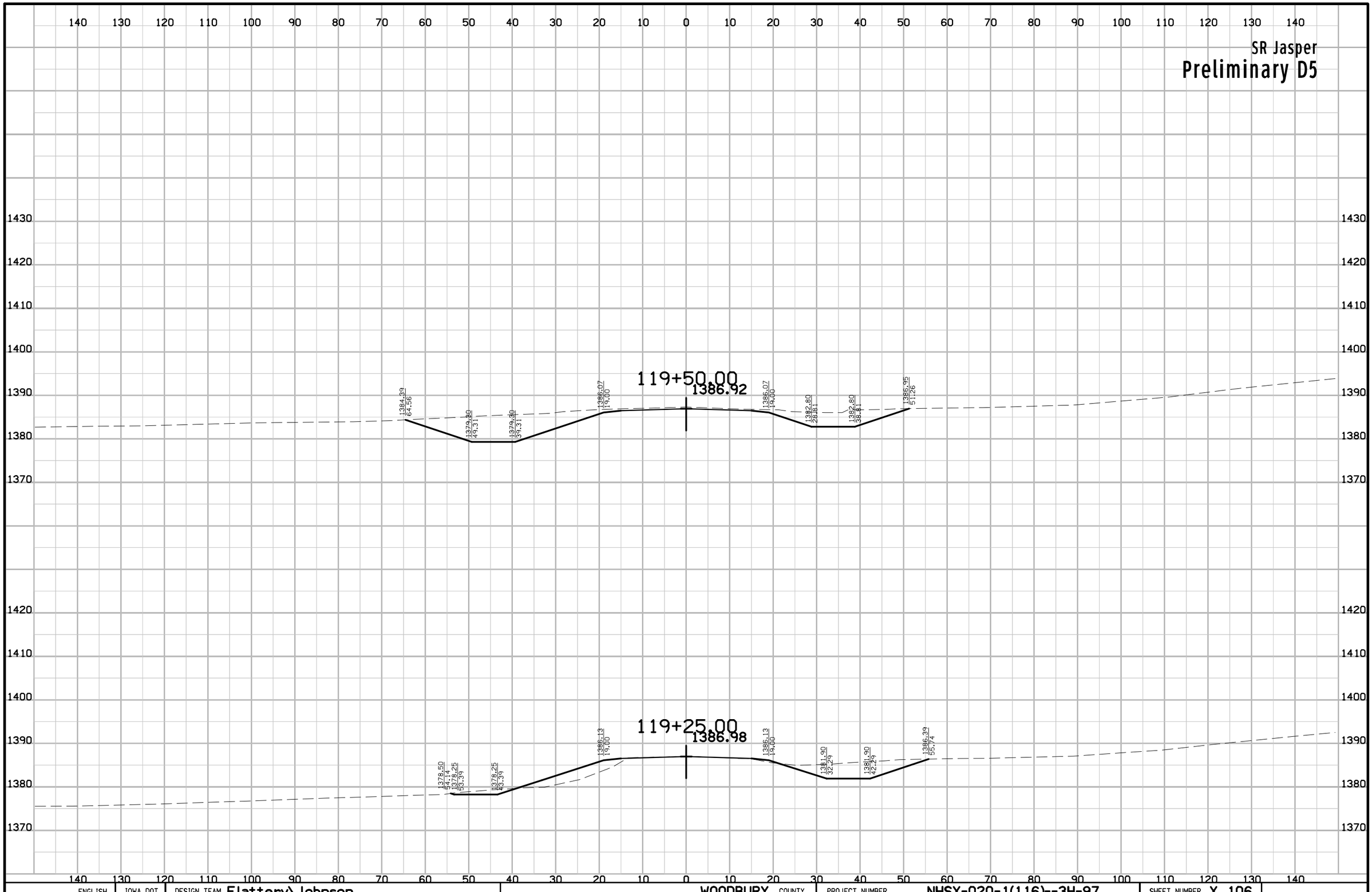
SR Jasper

Preliminary D5



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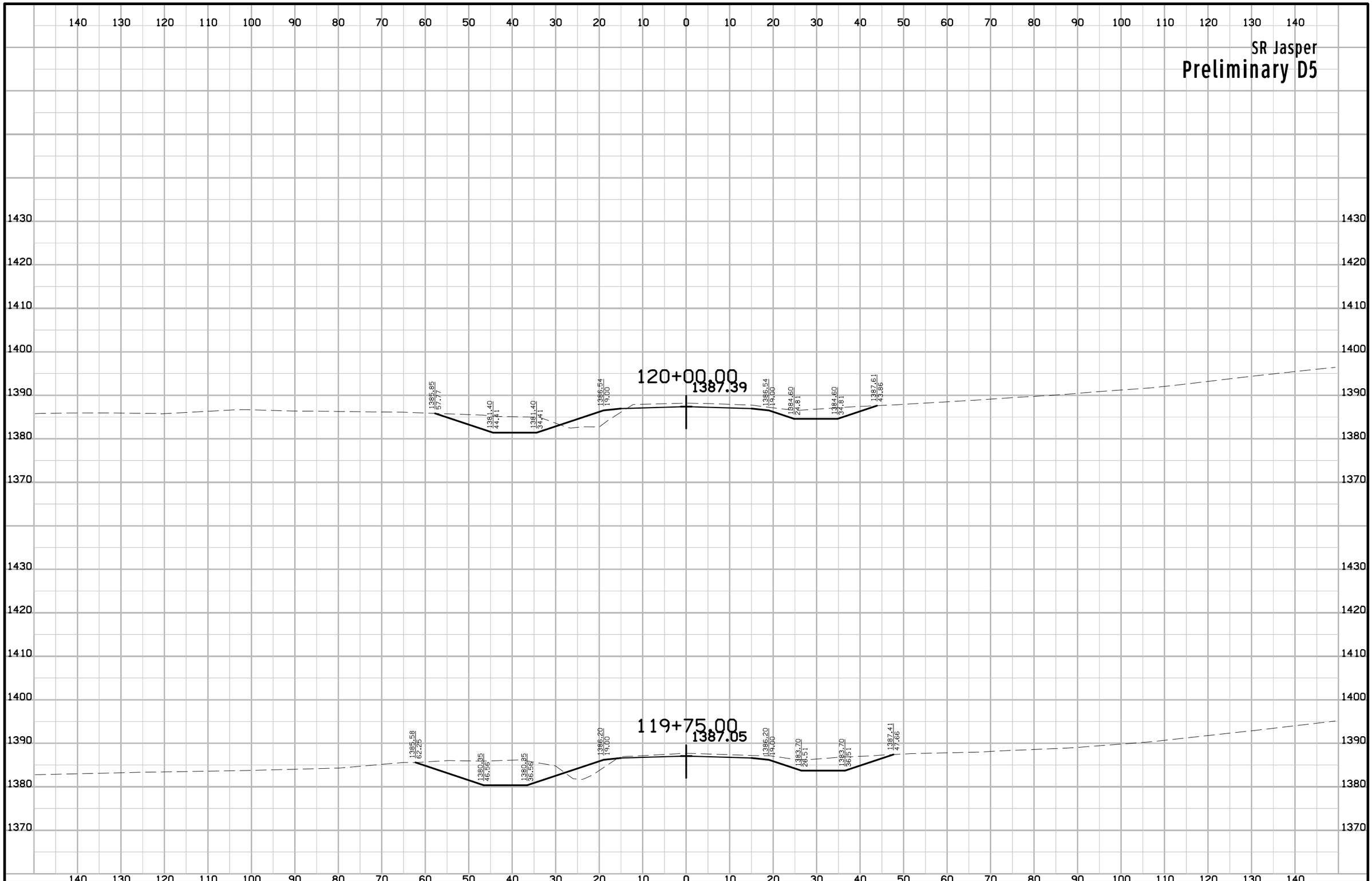
SR Jasper

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.107

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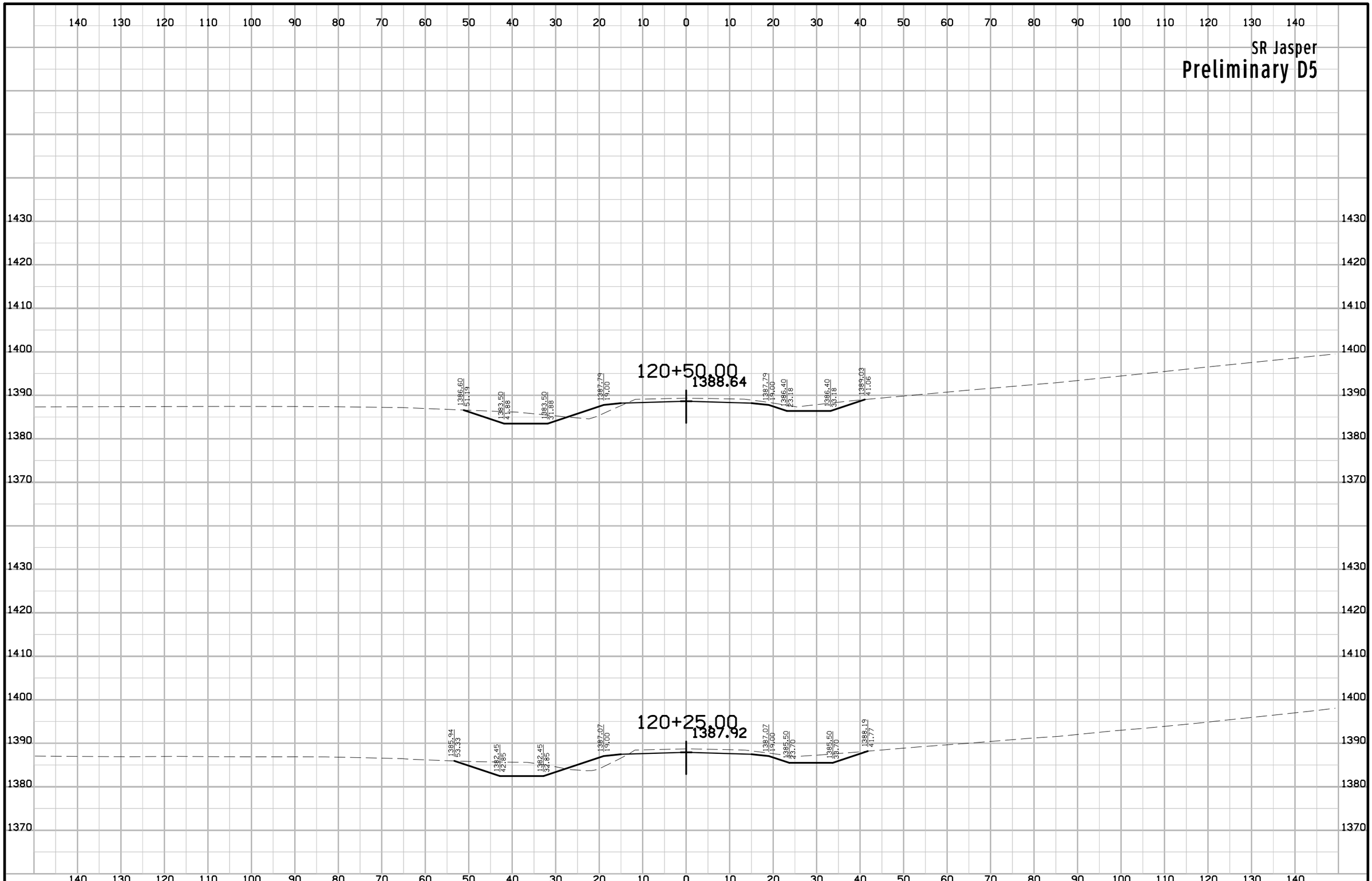
SR Jasper

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.108

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SR Jasper

Preliminary D5

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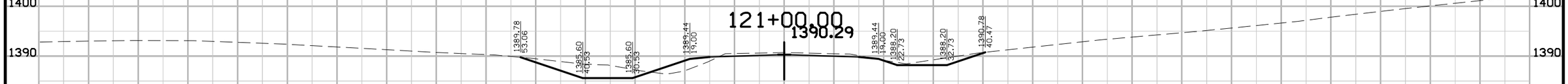
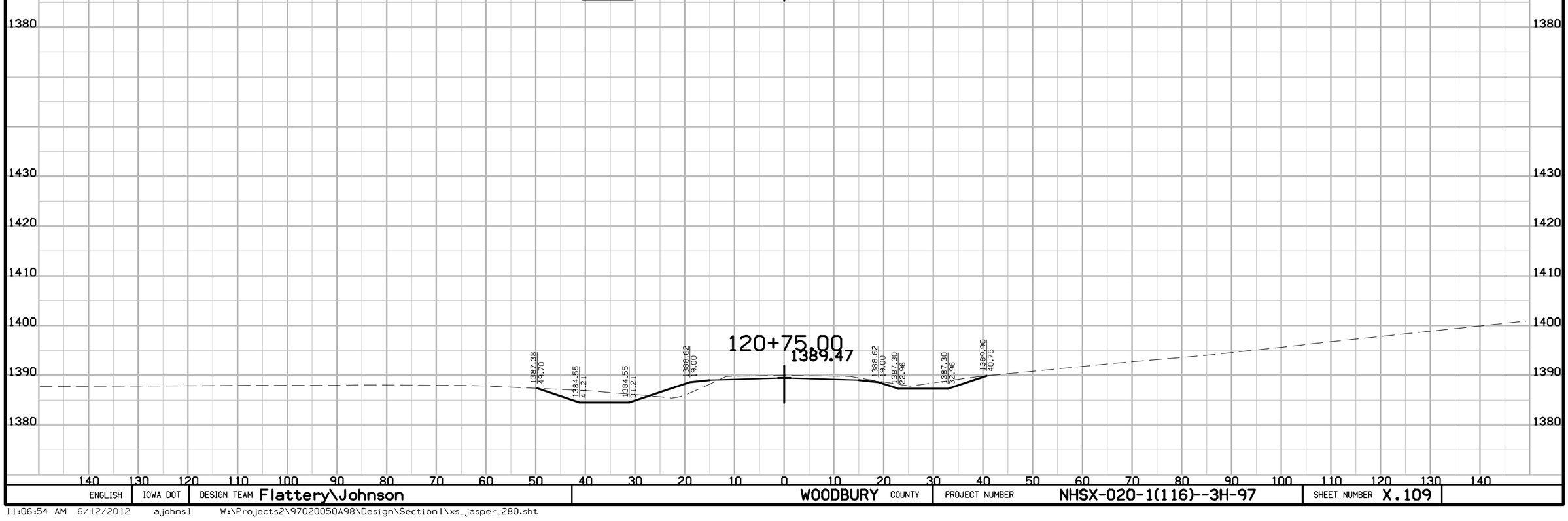
1430
1420
1410
1400
1390
1380





ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.109

SR Jasper

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1430
1420
1410
1400
1390
1380

121+50.00
1391.94

1392.58
53.82

1387.70
39.18

1387.70
29.18

1391.09
19.00

1391.09
19.00

1390.00
22.28

1390.00
32.28

1392.77
40.58

121+25.00
1391.12

1390.87
52.51

1386.65
39.86

1386.65
29.86

1390.27
19.00

1390.27
19.00

1389.10
22.50

1389.10
32.51

1391.78
40.54

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.110

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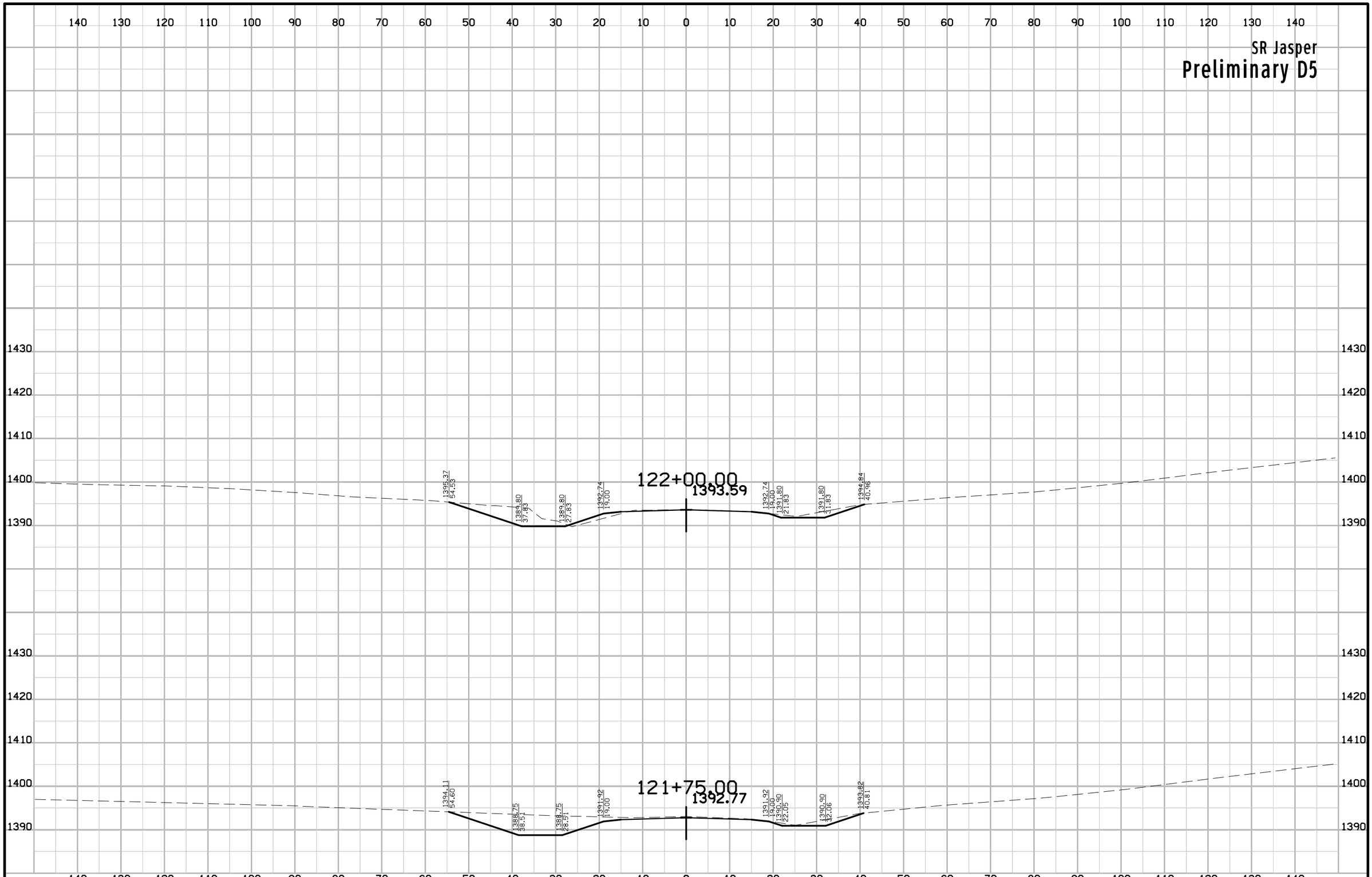

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.111

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SR Jewell

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1290
1280

209+25.00
1282.54
1278.54 41.63
1278.00 40.07
1278.00 30.07
1281.69 19.00
1282.09 15.00
1282.09 15.00
1281.69 19.00
1277.50 31.57
1277.50 41.57
1278.29 43.94

209+00.00
1281.32
1278.67 39.92
1277.75 37.15
1277.75 27.15
1280.47 19.00
1280.87 15.00
1280.87 15.00
1280.47 19.00
1277.00 29.46
1277.00 39.40
1278.21 43.03

208+75.00
1280.32
1278.51 37.92
1277.50 34.90
1277.50 24.90
1279.46 19.00
1279.87 15.00
1279.86 15.00
1279.46 19.00
1276.50 27.90
1276.50 37.90
1278.05 42.53

208+50.00
1279.54
1278.42 36.81
1277.25 33.31
1277.25 23.31
1278.69 19.00
1279.09 15.00
1279.09 15.00
1278.69 19.00
1276.00 27.06
1276.00 37.06
1277.86 42.63

208+25.00
1278.98
1278.14 36.19
1277.00 32.38
1277.00 22.38
1278.13 19.00
1278.53 15.00
1278.53 15.00
1278.13 19.00
1275.50 26.88
1275.50 36.88
1277.77 43.71

208+00.00
1278.64
1278.20 36.47
1276.75 32.13
1276.75 22.13
1277.79 19.00
1278.19 15.00
1278.19 15.00
1277.79 19.00
1275.00 27.38
1275.00 37.38
1277.61 45.22

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.200

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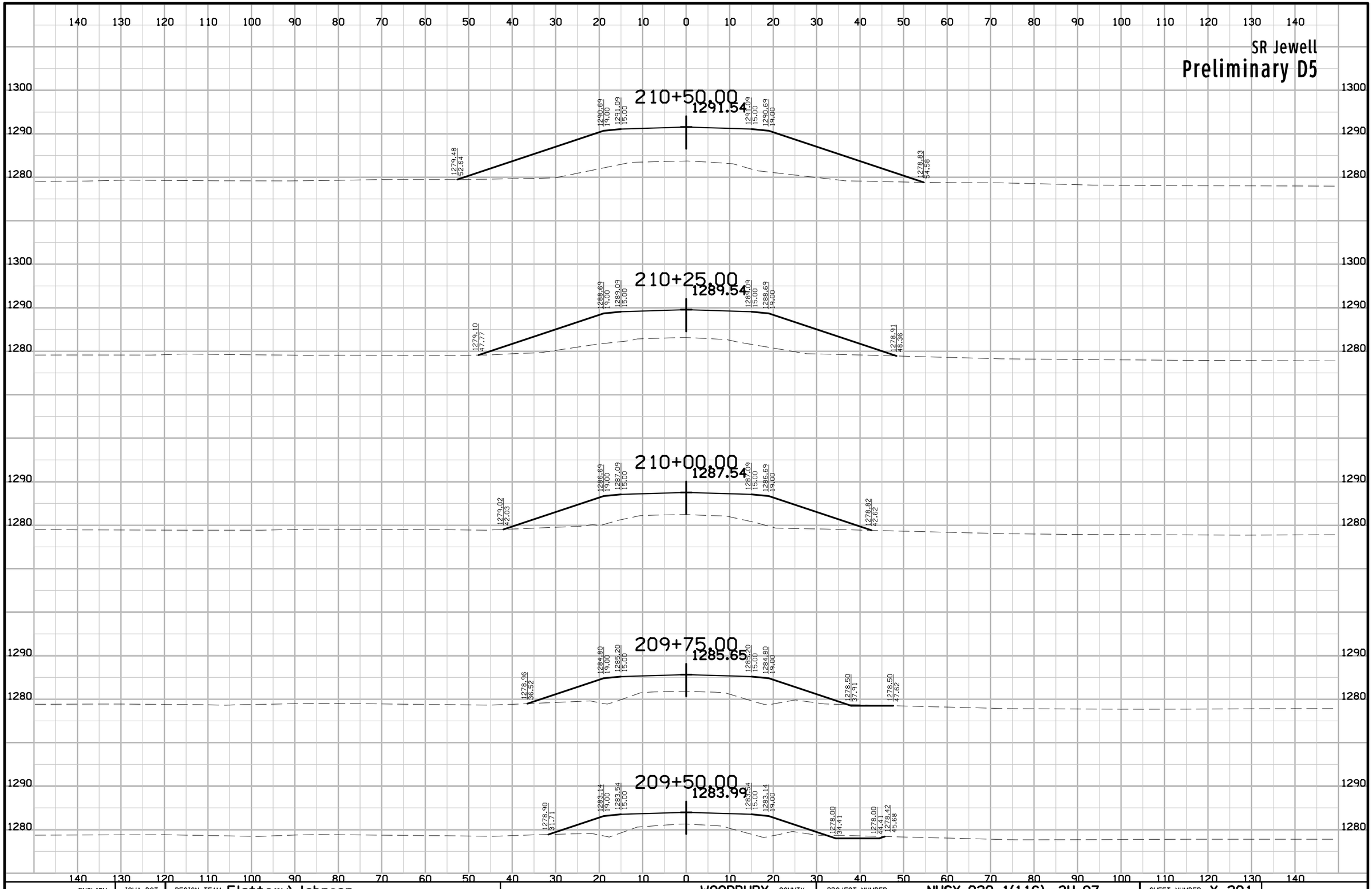
SR Jewell

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.201

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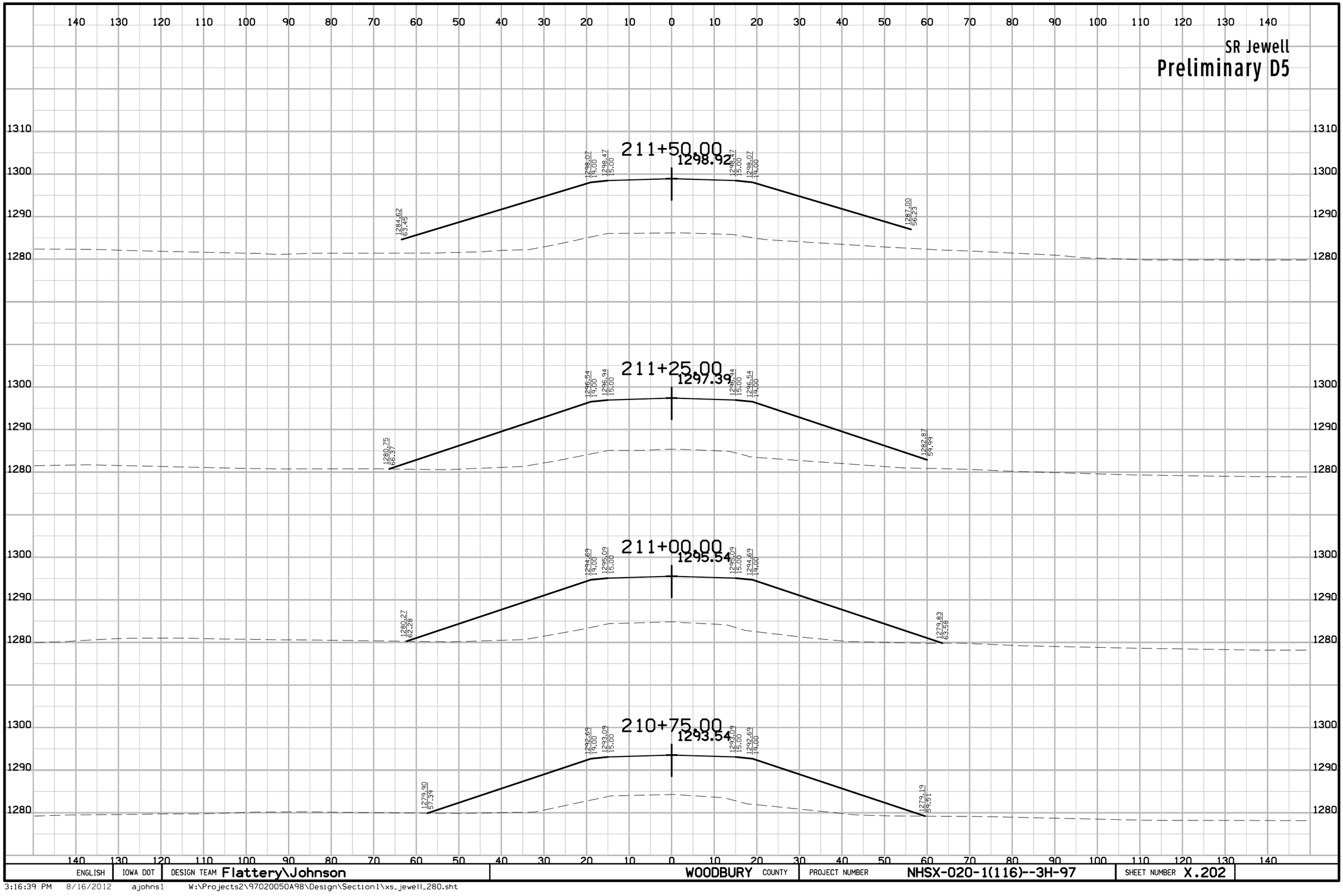
SR Jewell

Preliminary D5



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SR Jewell

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1310 1300 1290

212+50.00
1302.48

1310 1300 1290

212+25.00
1301.79

1301.43
34.99

1301.67
28.95

1301.38
29.68

1301.07
35.76

1310 1300 1290

212+00.00
1301.04

1300.31
19.97

1300.68
15.86

1300.63
16.18

1300.26
20.33

1310 1300 1290

211+75.00
1300.14

1290.67
58.30

1299.29
19.00

1299.69
15.00

1299.69
15.00

1299.29
19.00

1291.12
57.14

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER X.203

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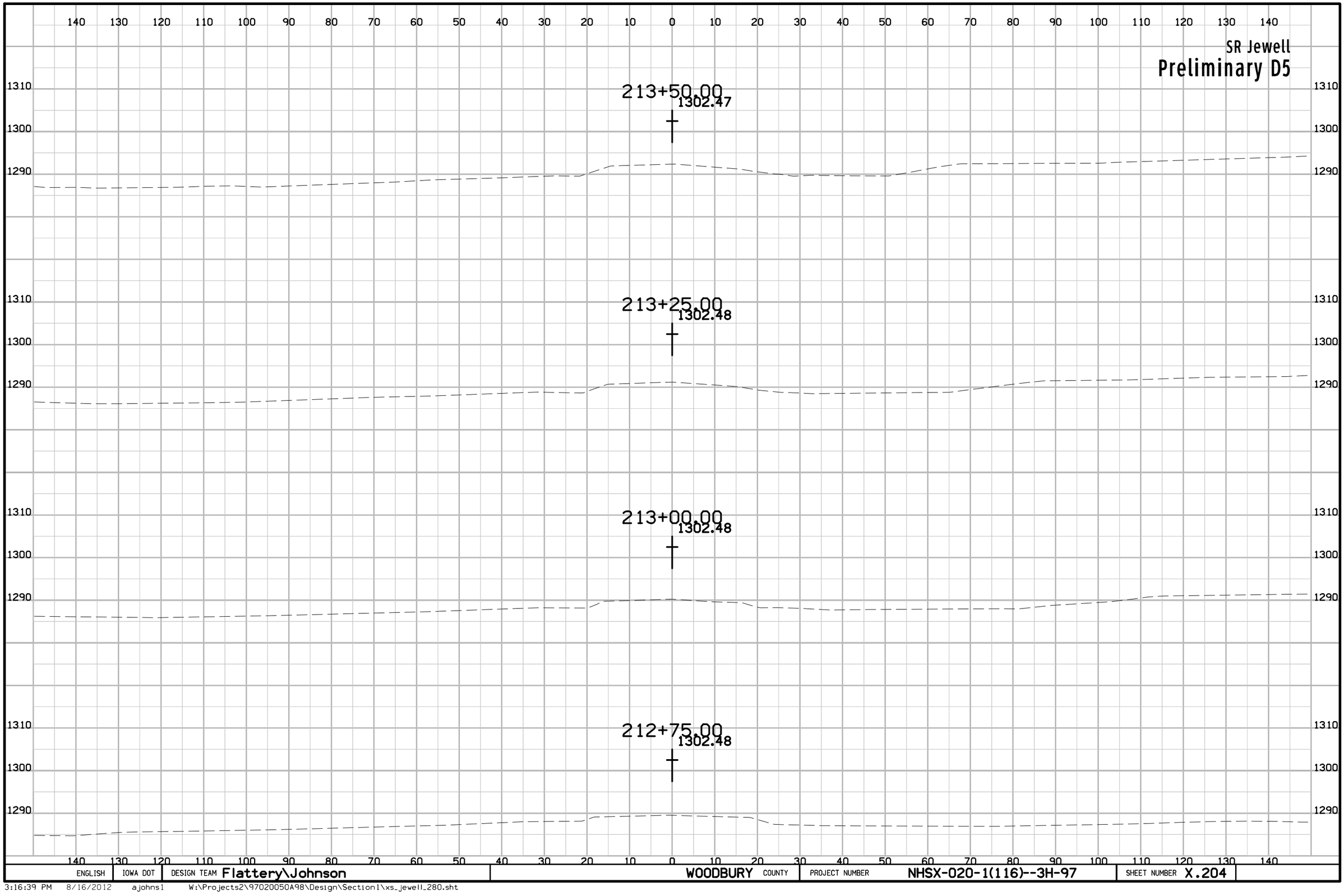
SR Jewell

Preliminary D5



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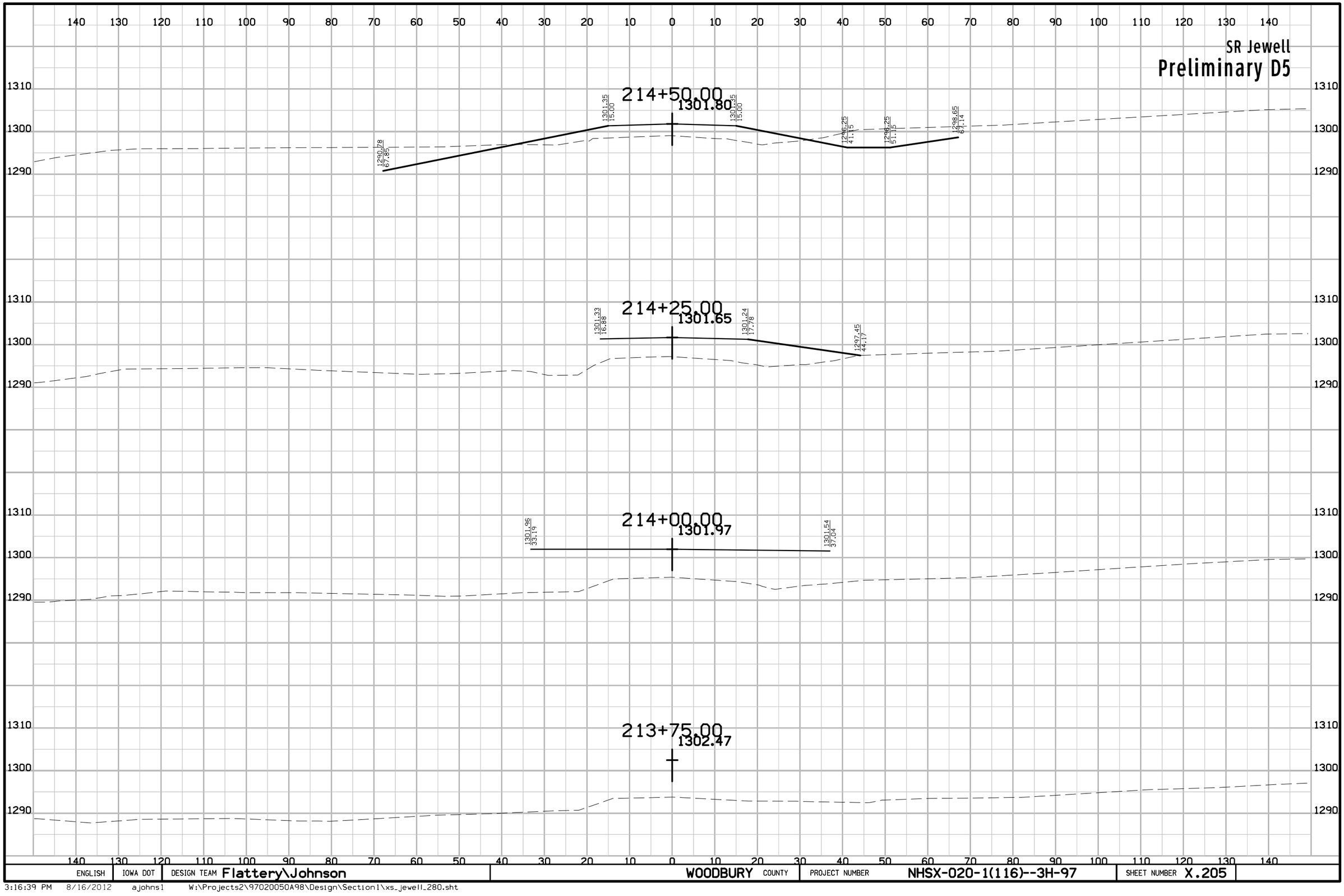
SR Jewell

Preliminary D5



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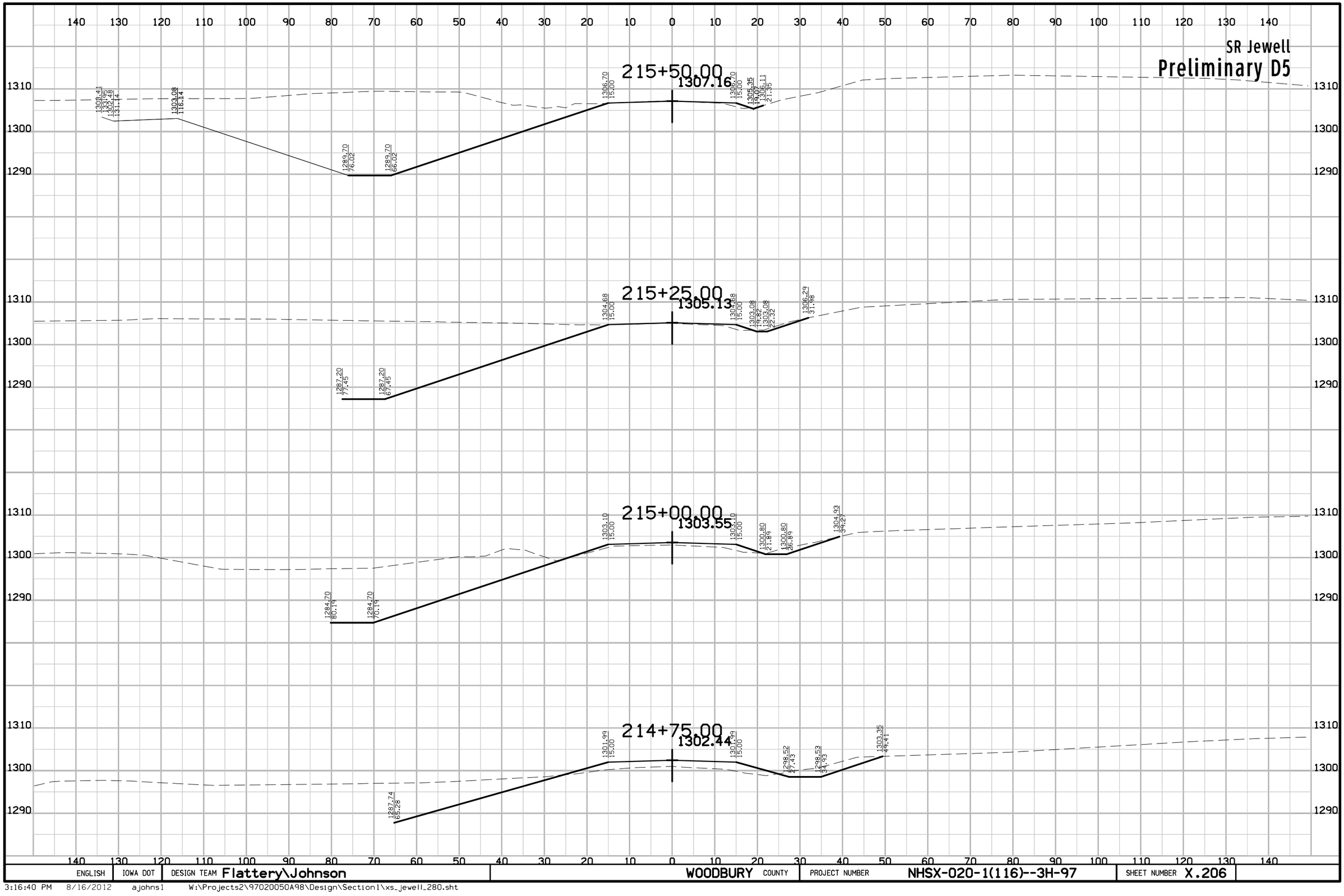
SR Jewell

Preliminary D5



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SR Jewell

Preliminary D5

180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100

1320
1310
1300
1290

1320.92
157.73

1299.45
93.30

1299.45
78.30

1297.20
71.55

1297.20
61.55

1312.72
15.00

216+25.00

1320.99
166.71

1302.57
111.46

1302.58
96.46

1294.70
72.83

1294.70
62.83

1310.64
15.00

216+00.00

1310.14
145.21

1302.23
121.47

1302.83
106.47

1292.20
74.59

1292.20
64.59

1308.73
15.00

215+75.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.207

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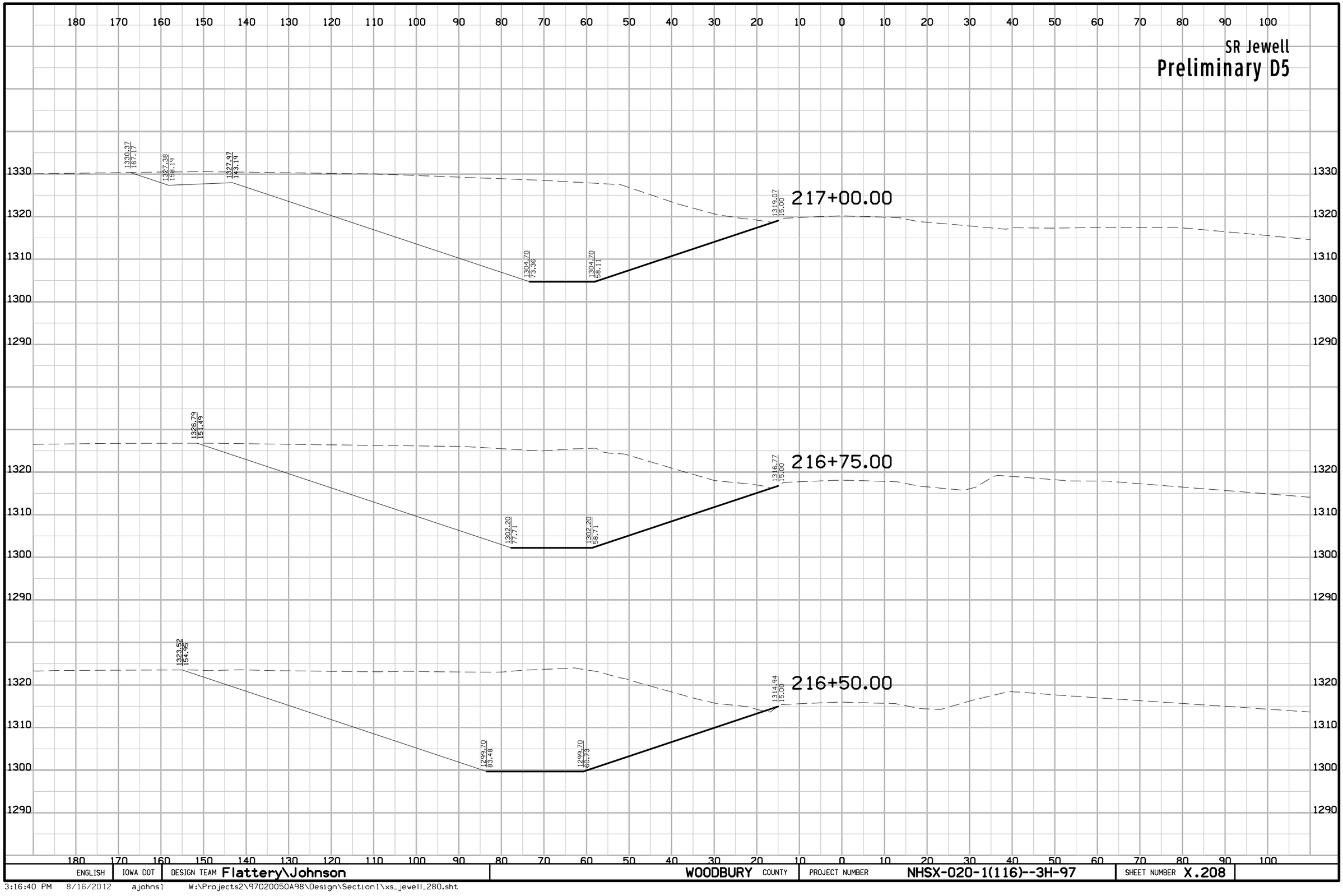
SR Jewell

Preliminary D5



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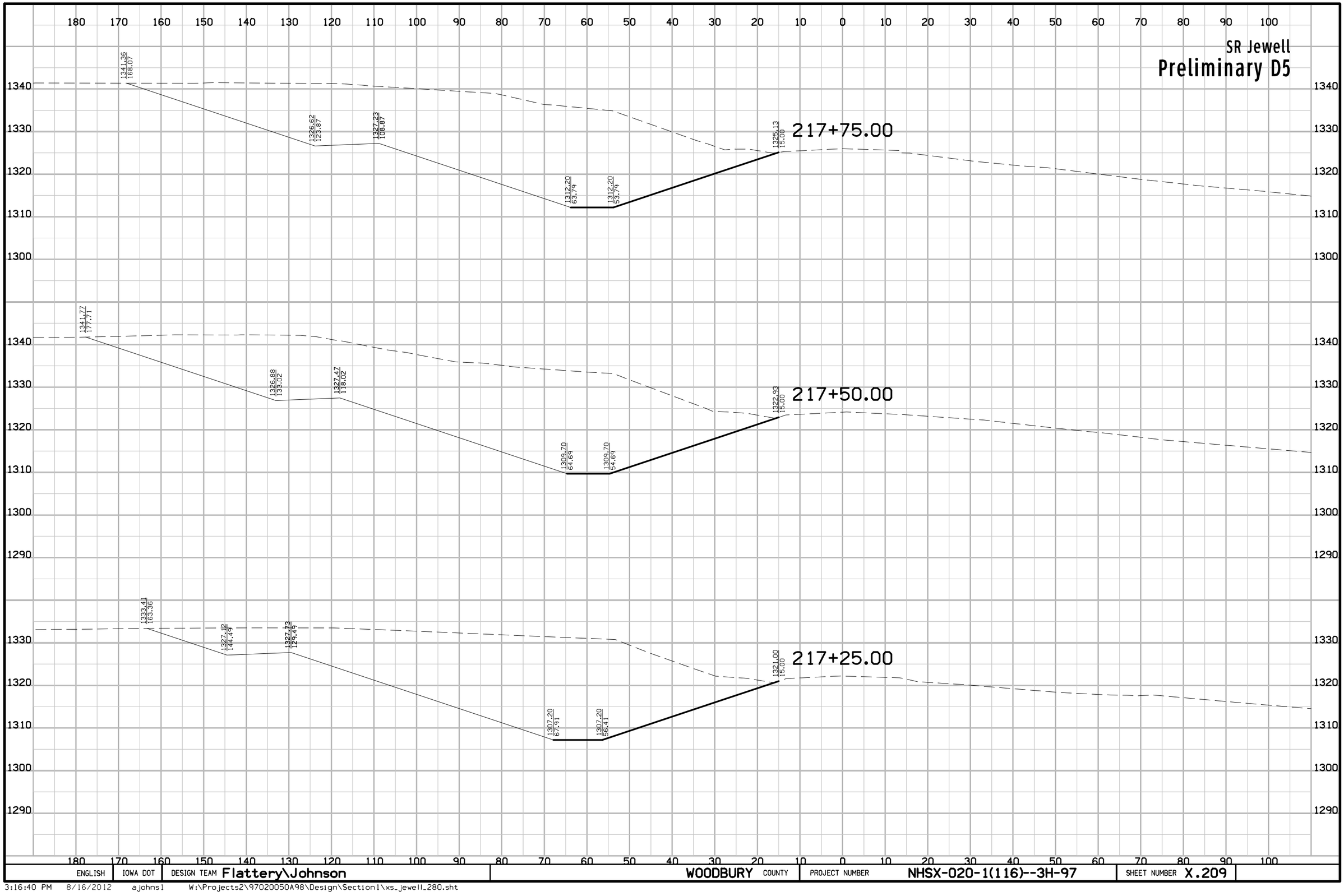
SR Jewell

Preliminary D5



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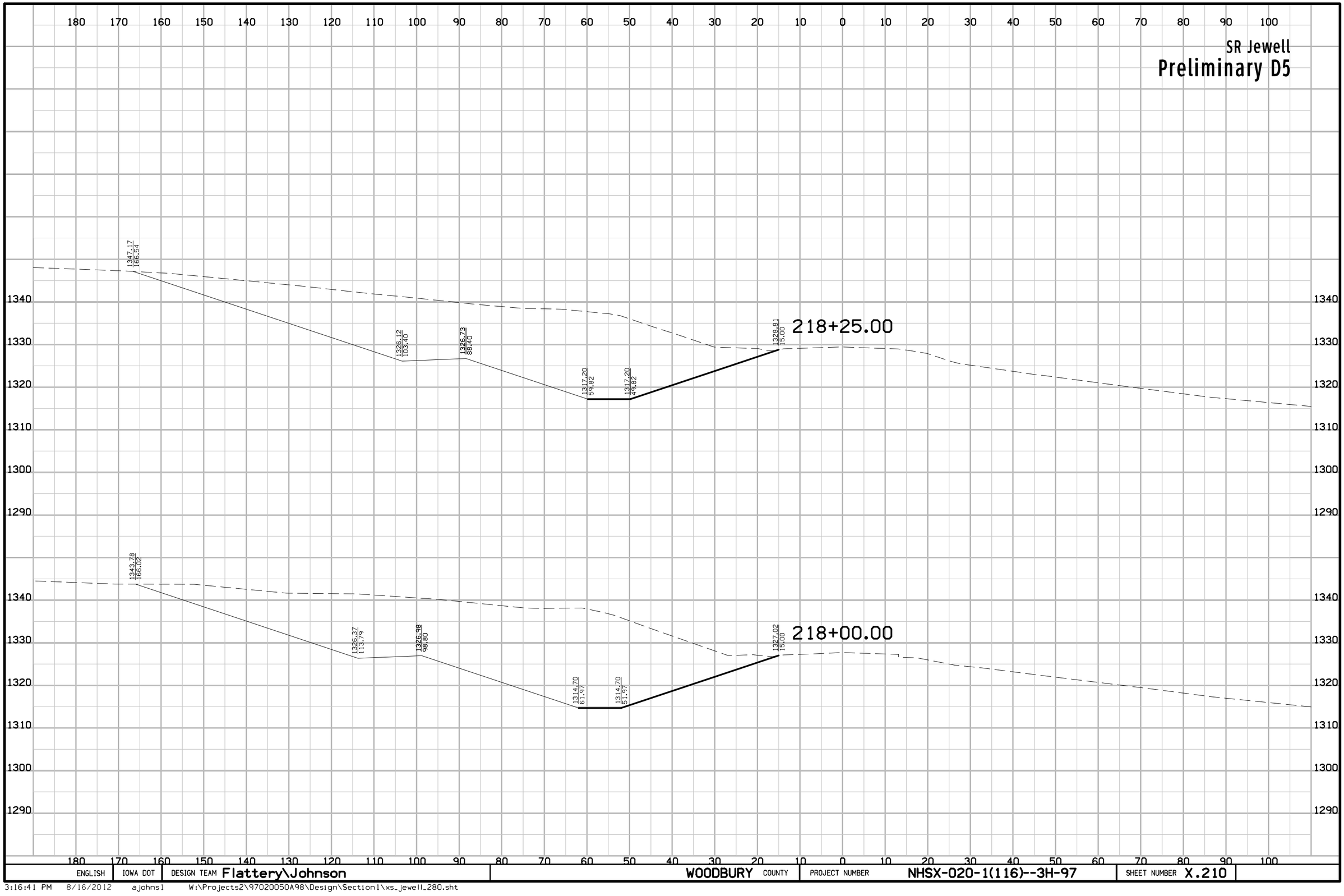
SR Jewell

Preliminary D5



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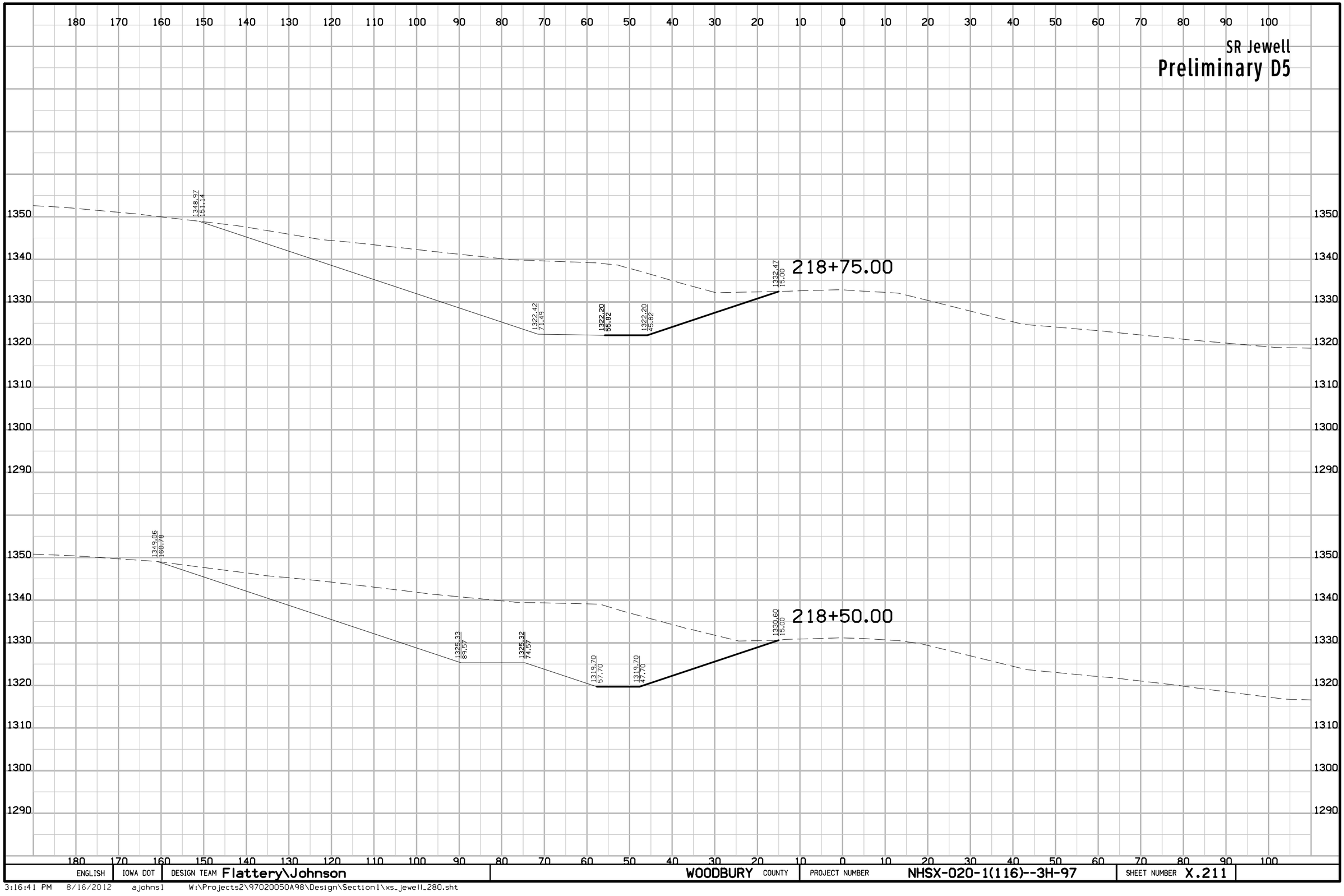
SR Jewell

Preliminary D5



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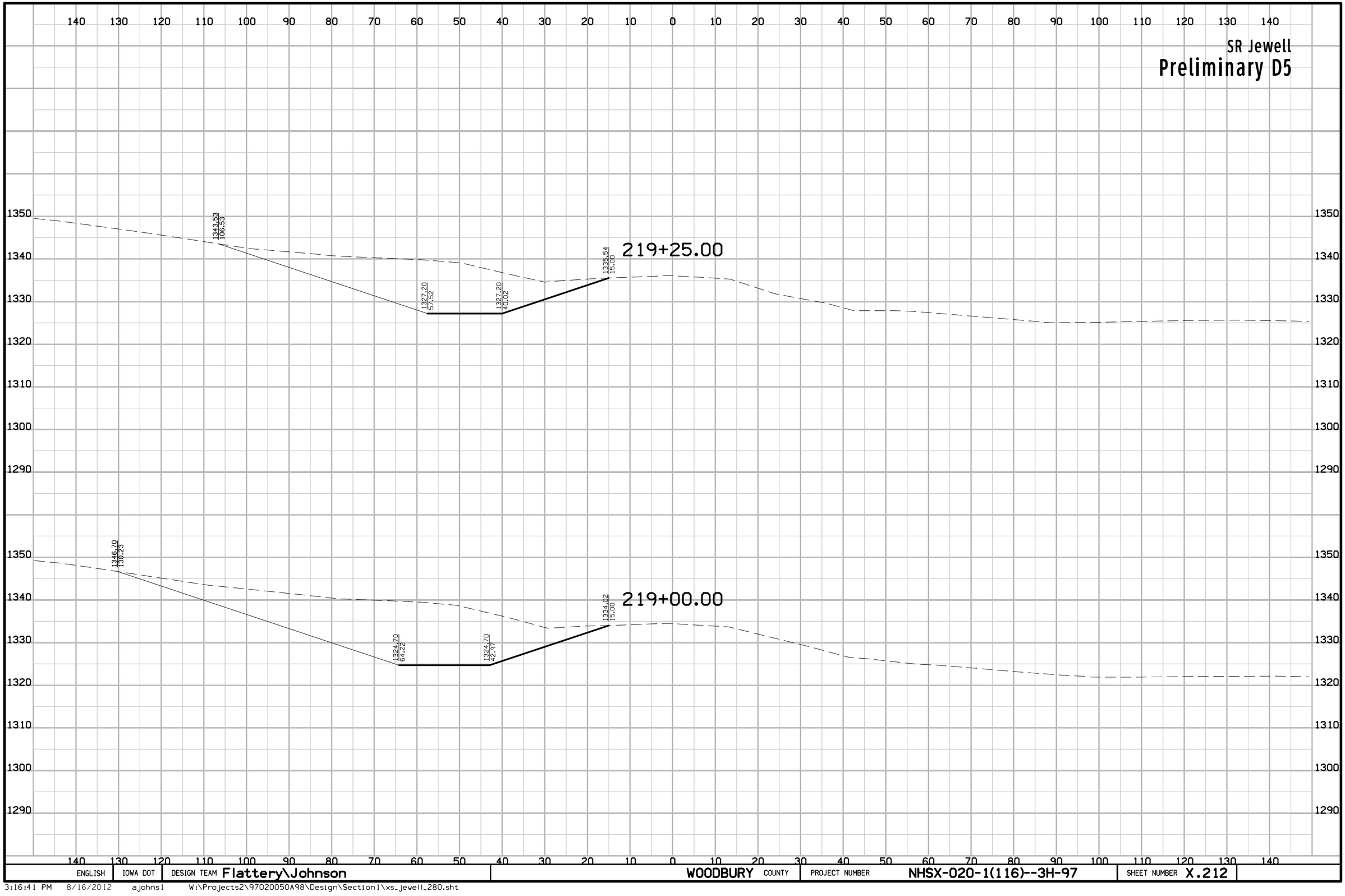
SR Jewell

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.212

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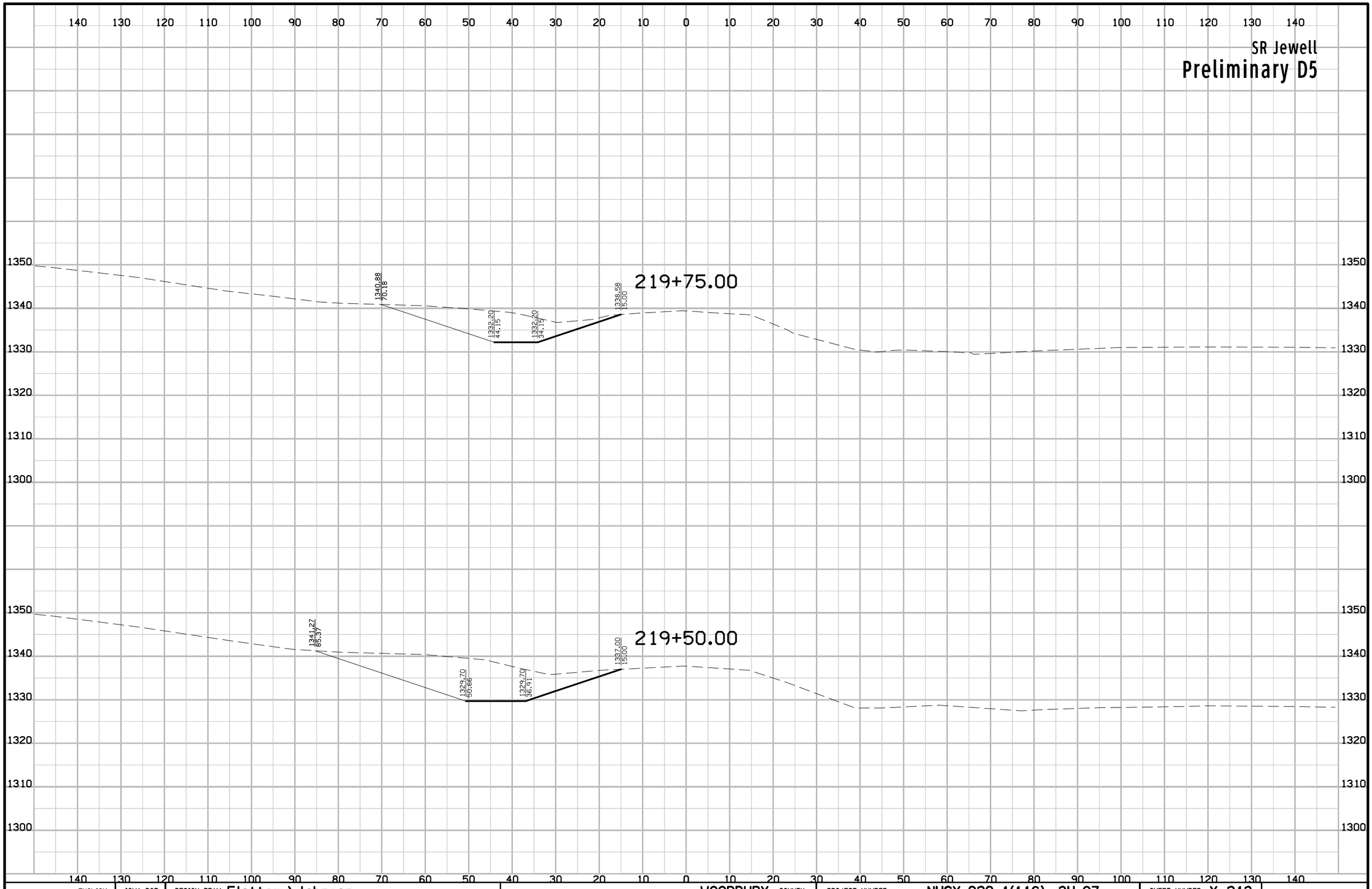
SR Jewell

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.213

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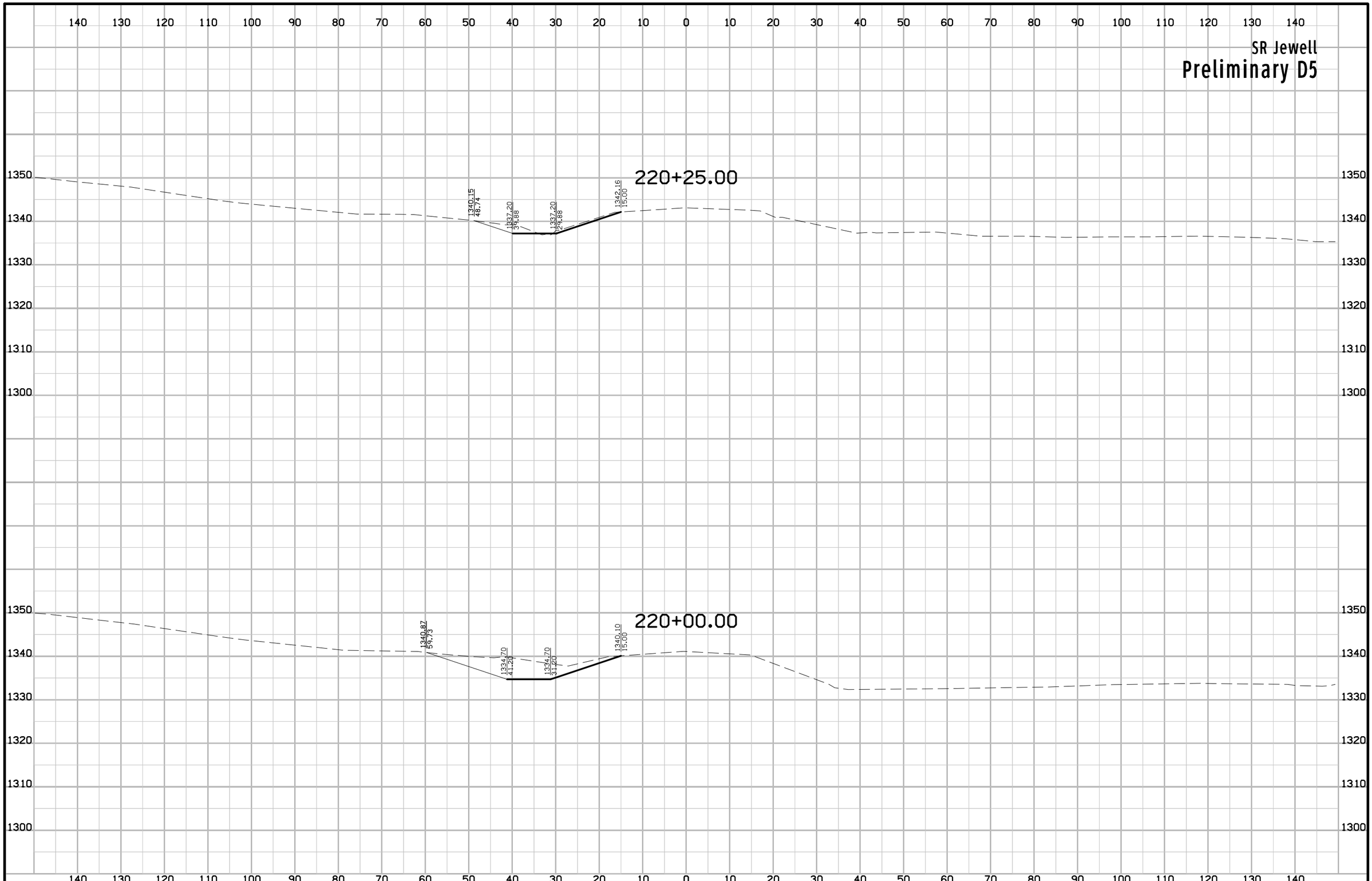
SR Jewell

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.214

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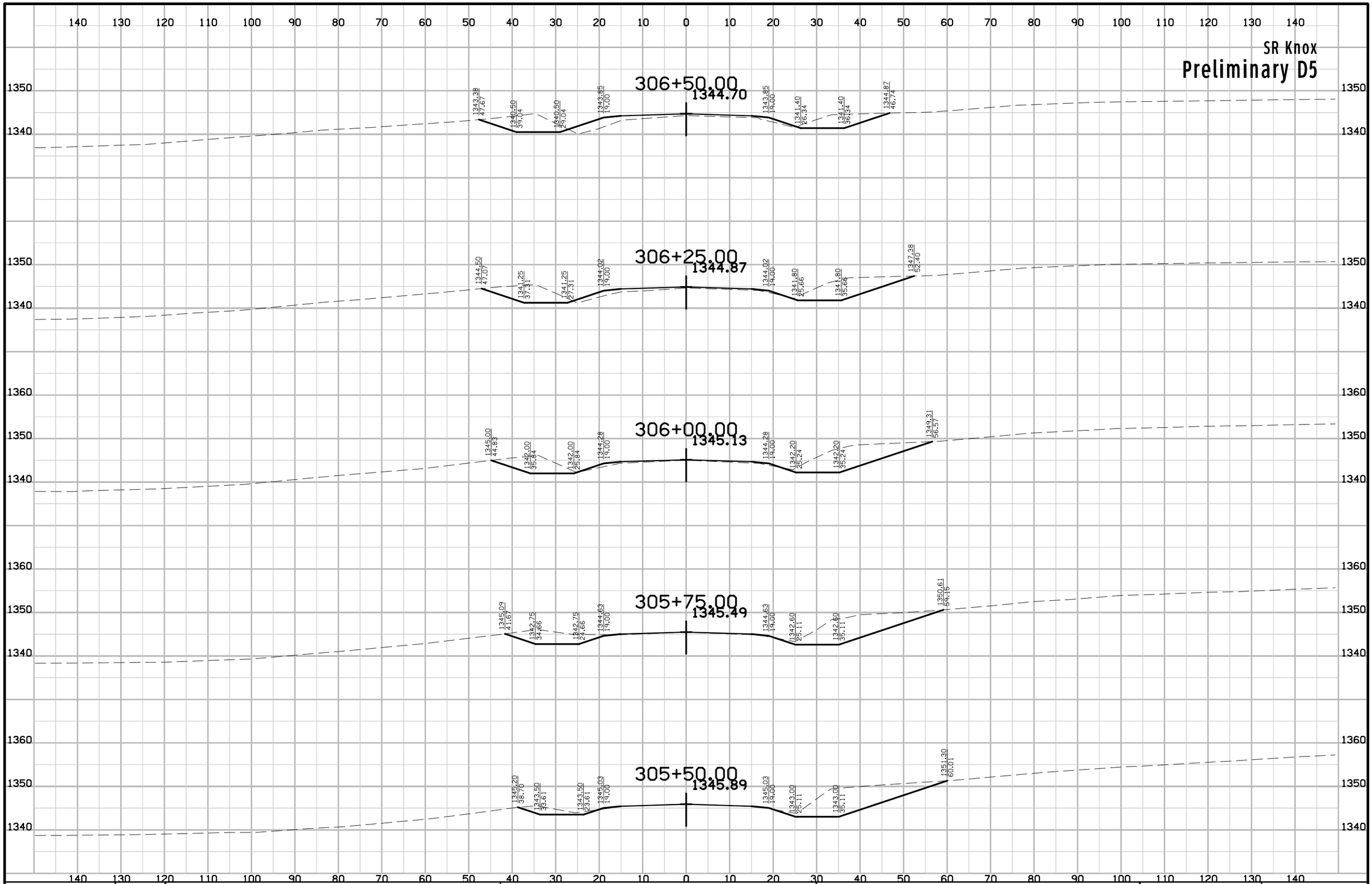
SR Knox

Preliminary D5



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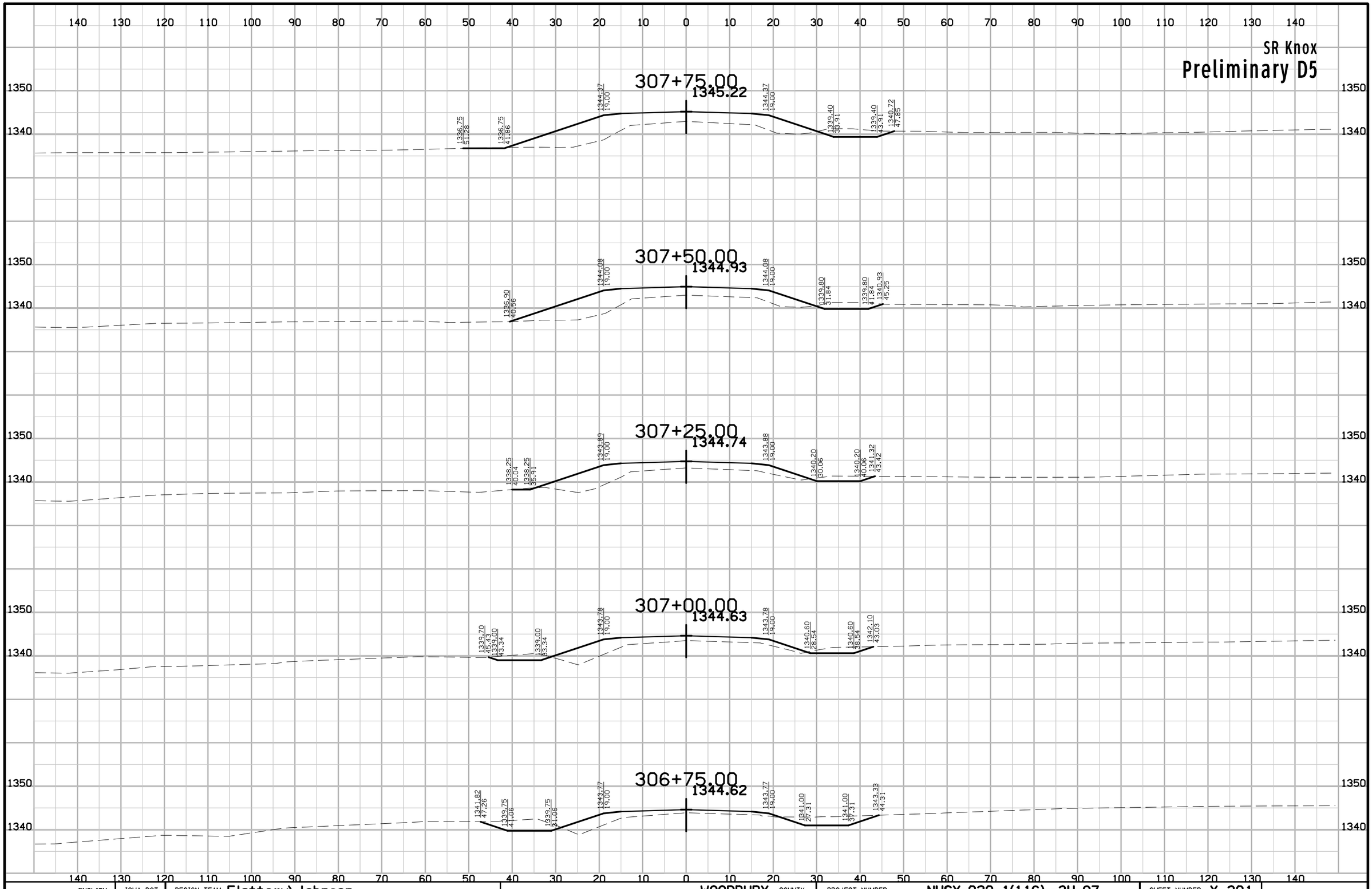
SR Knox

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.301

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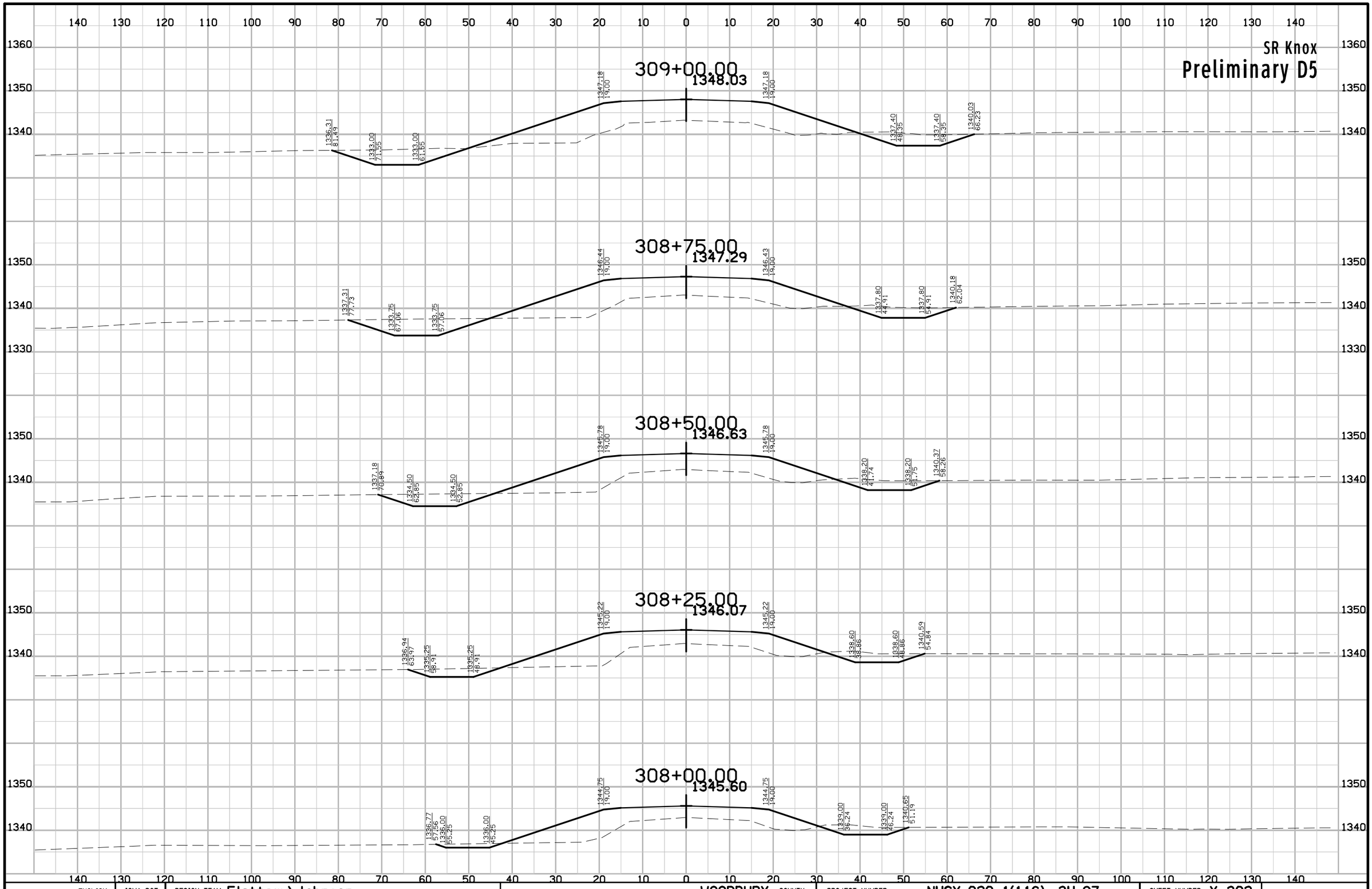
SR Knox

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.302

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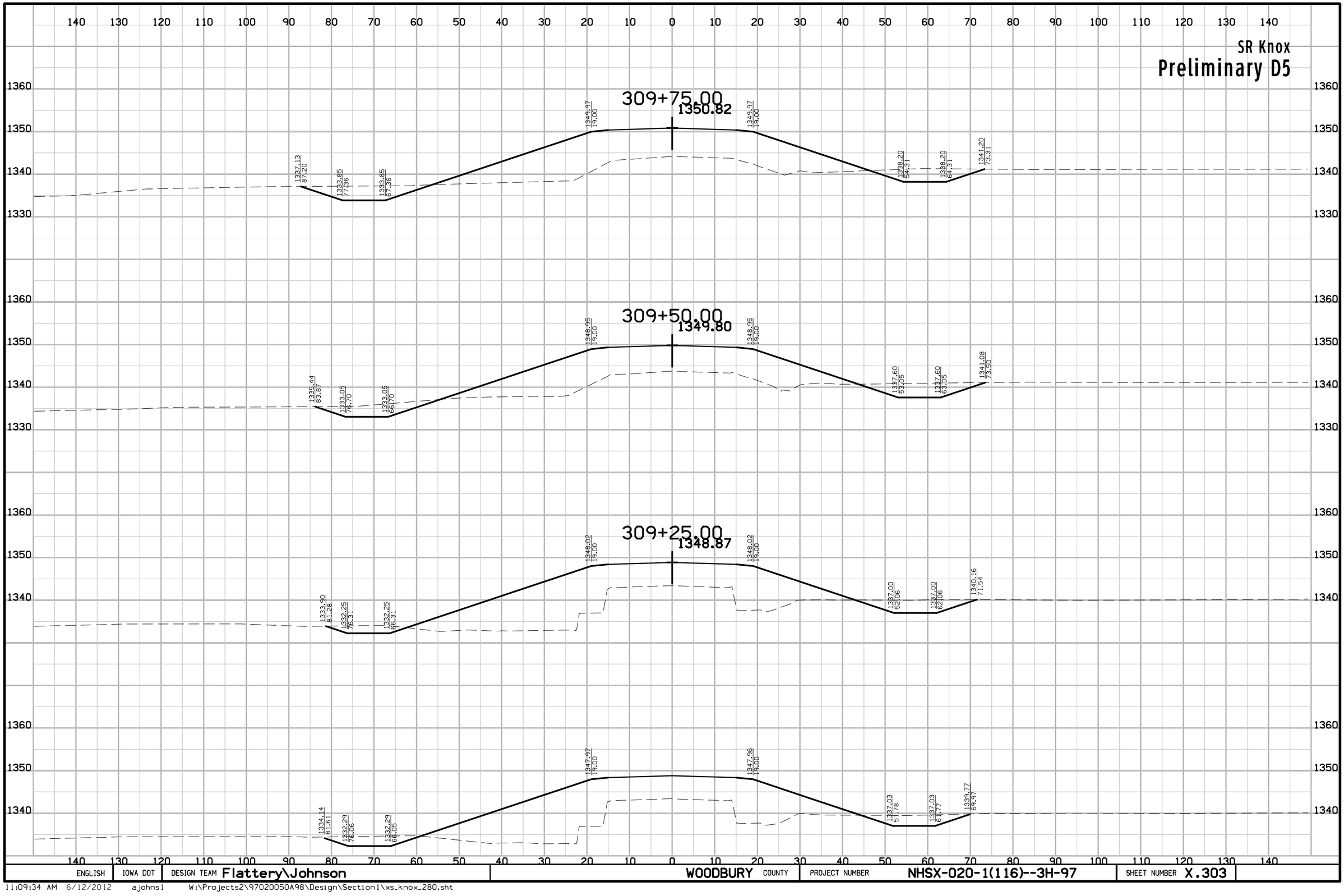
SR Knox

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.303

11:09:34 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

SR Knox

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1360 1350 1340 1330

310+50.00

1354.43

1338.57 87.95 | 1336.25 81.00 | 1336.25 74.00 | 1353.58 19.00 | 1353.58 19.00 | 1340.00 59.75 | 1340.00 69.75 | 1343.55 80.39

310+25.00

1353.14

1338.24 87.88 | 1335.45 79.51 | 1335.45 69.51 | 1352.28 19.00 | 1352.28 19.00 | 1339.40 57.66 | 1339.40 67.66 | 1341.45 73.81

310+00.00

1351.93

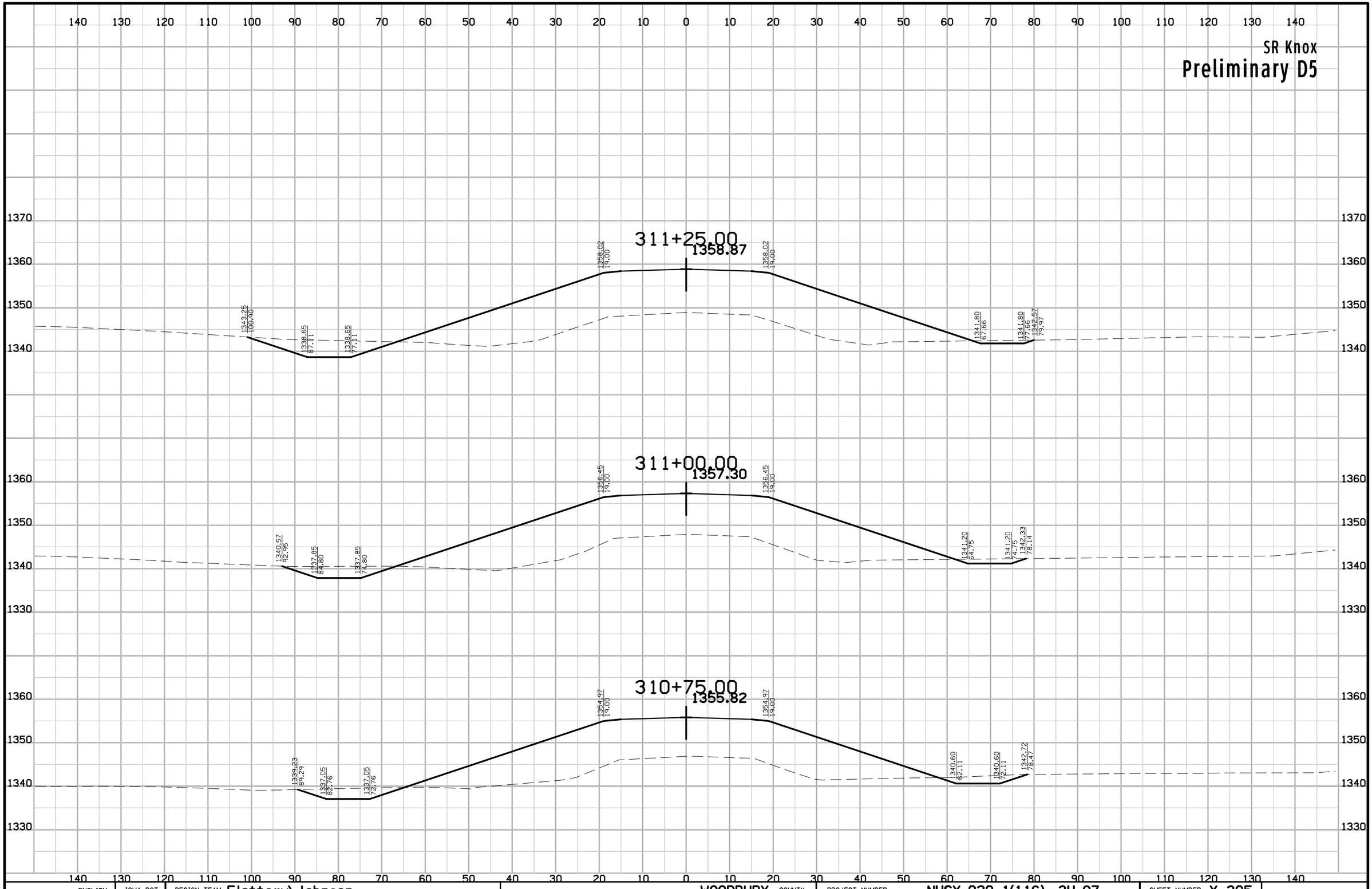
1337.70 87.44 | 1334.65 78.30 | 1334.65 68.30 | 1351.08 19.00 | 1351.08 19.00 | 1338.80 55.85 | 1338.80 65.85 | 1341.19 73.02

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.304

11:09:35 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

SR Knox

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.305

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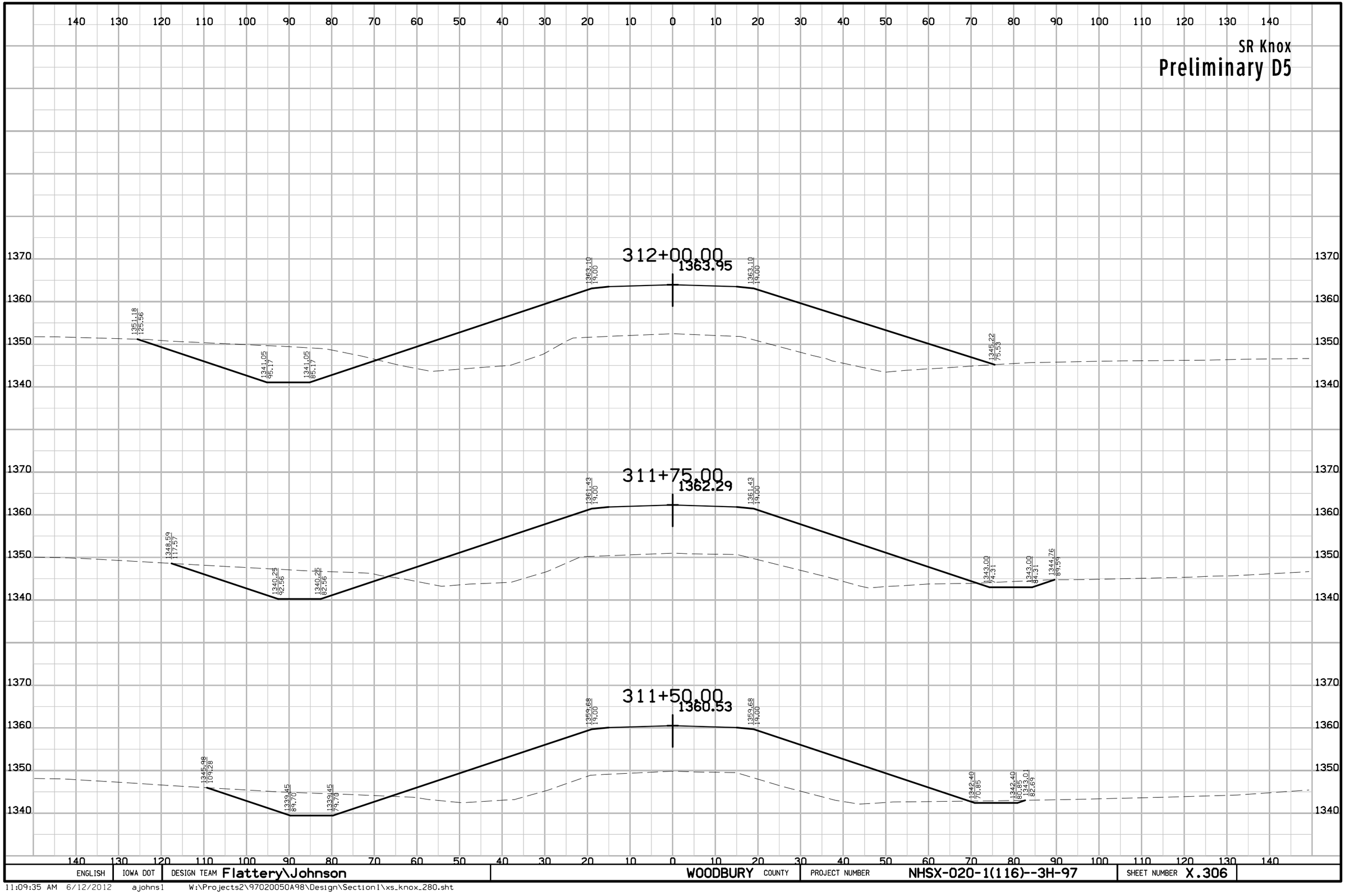
SR Knox

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.306

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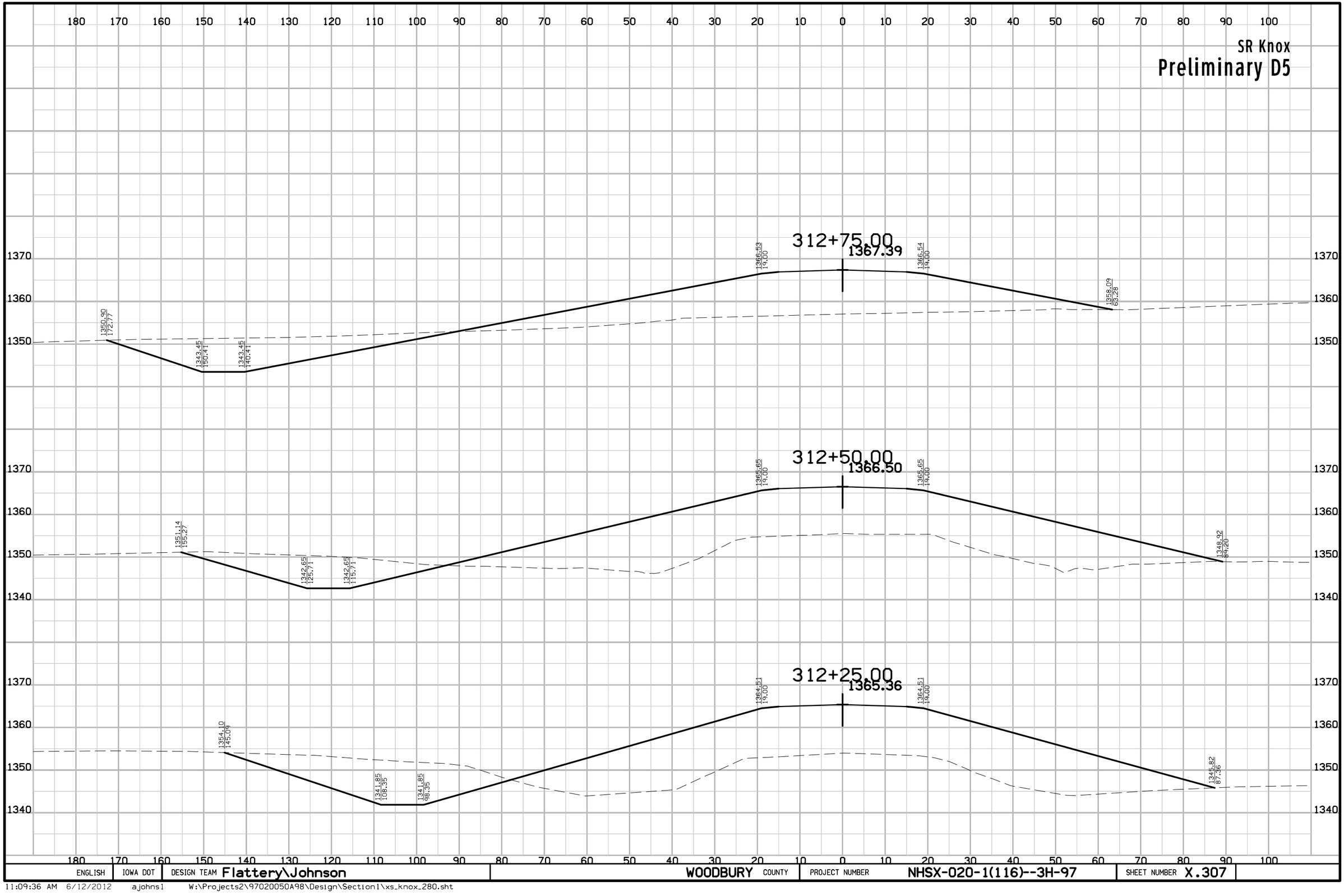
SR Knox

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.307

11:09:36 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

SR Knox

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1380
1370
1360
1350

313+50.00
1369.51

313+25.00
1368.89

313+00.00
1368.14

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.308

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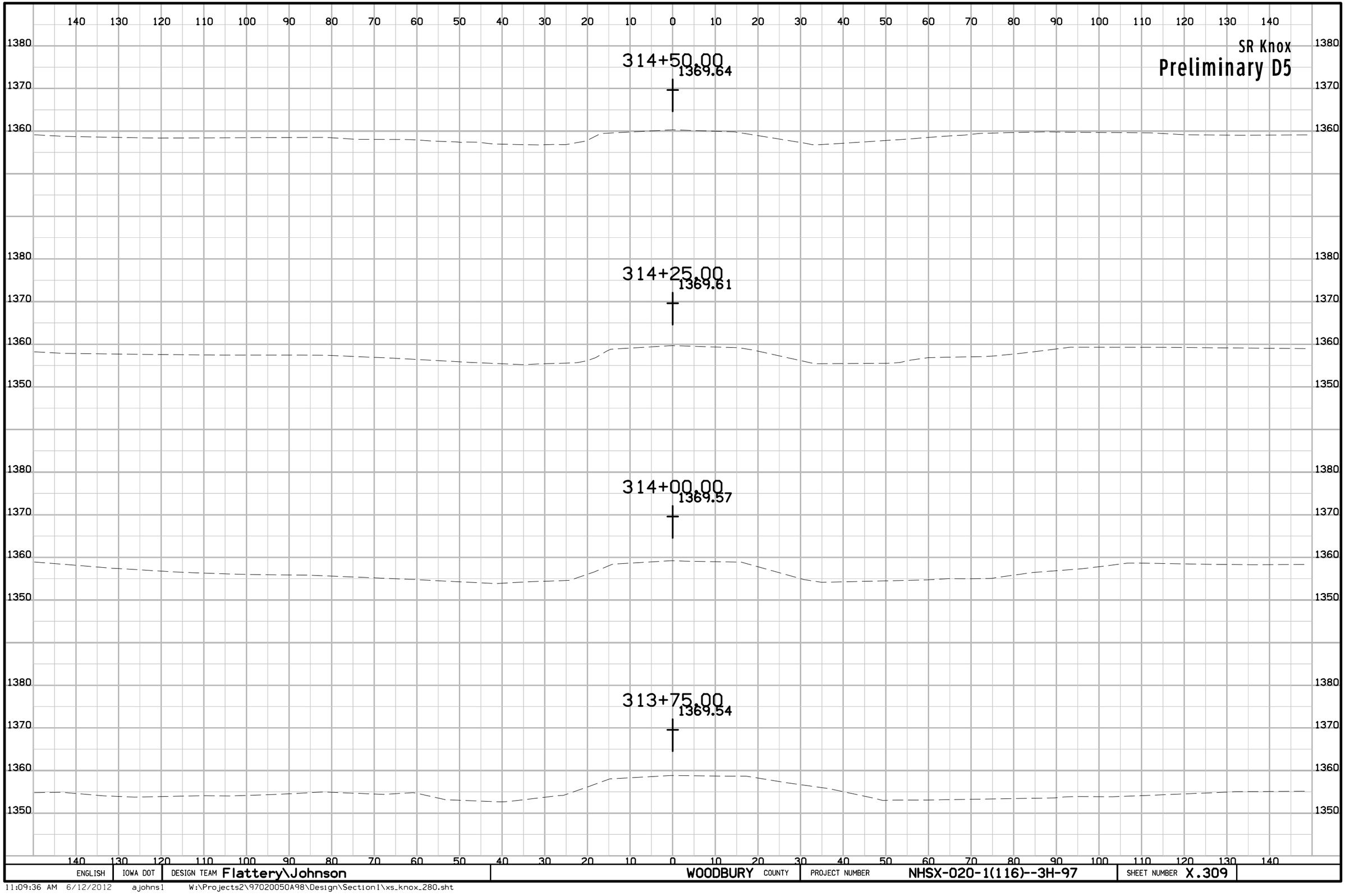
SR Knox

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.309

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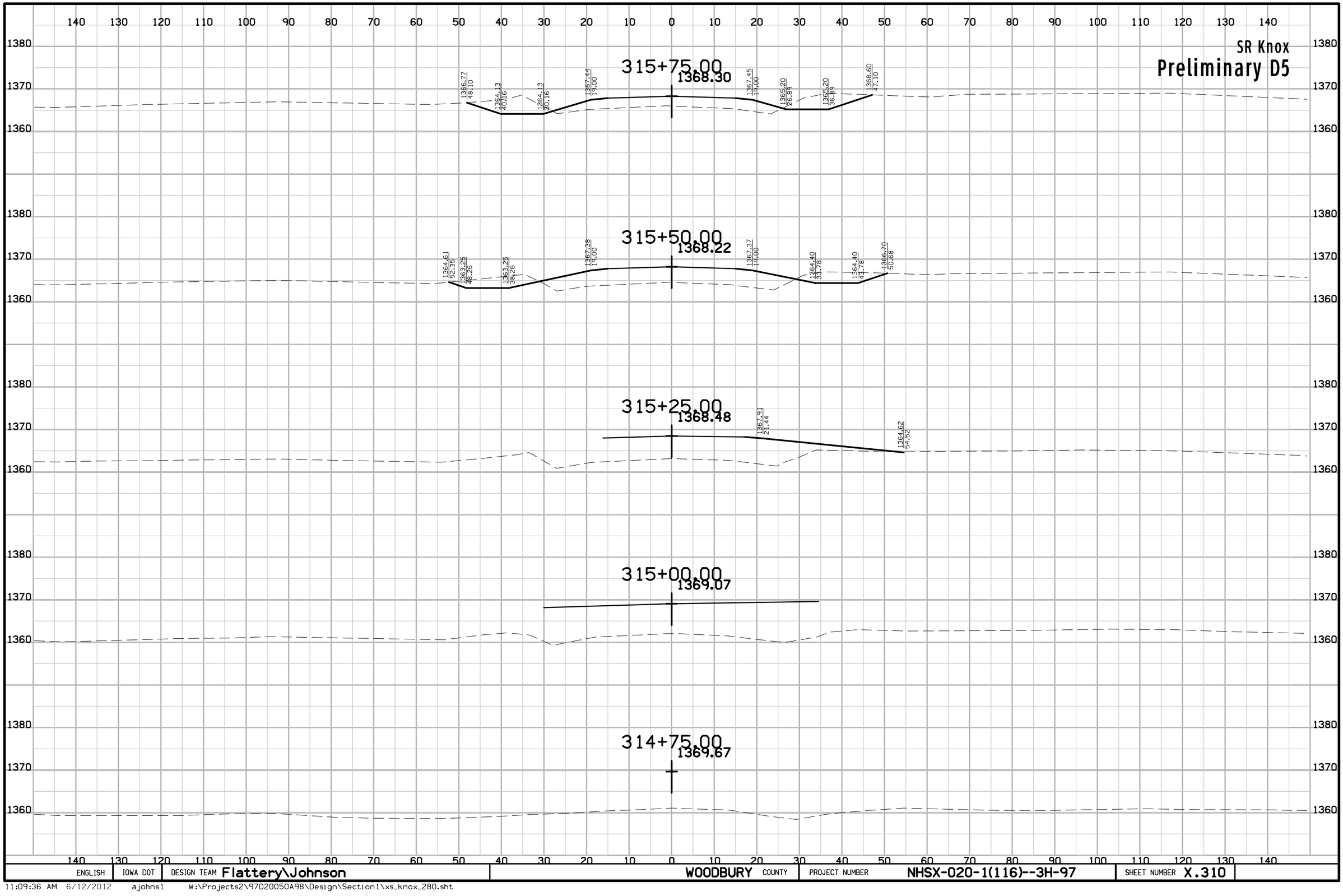
SR Knox

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.310

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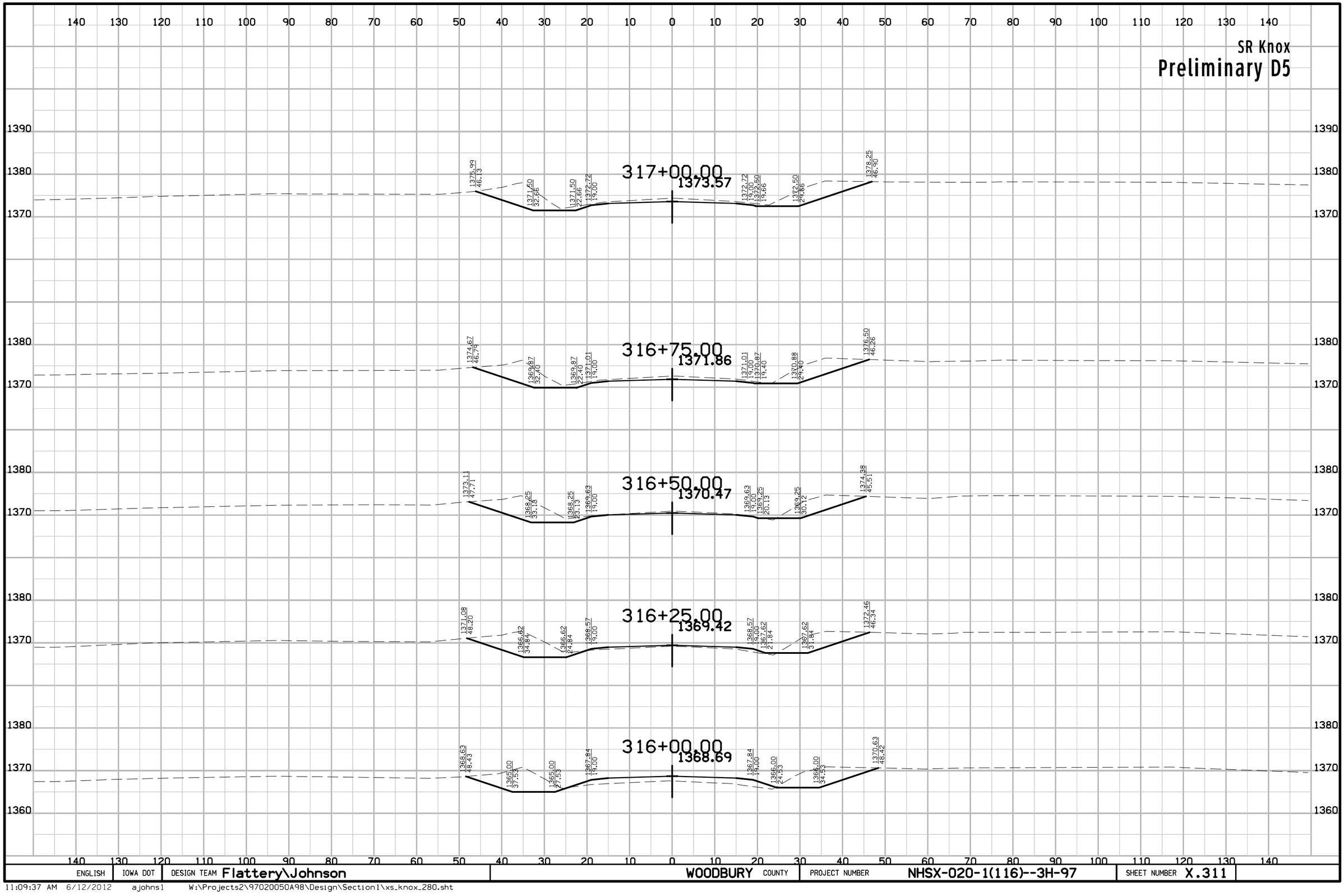
SR Knox

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.311

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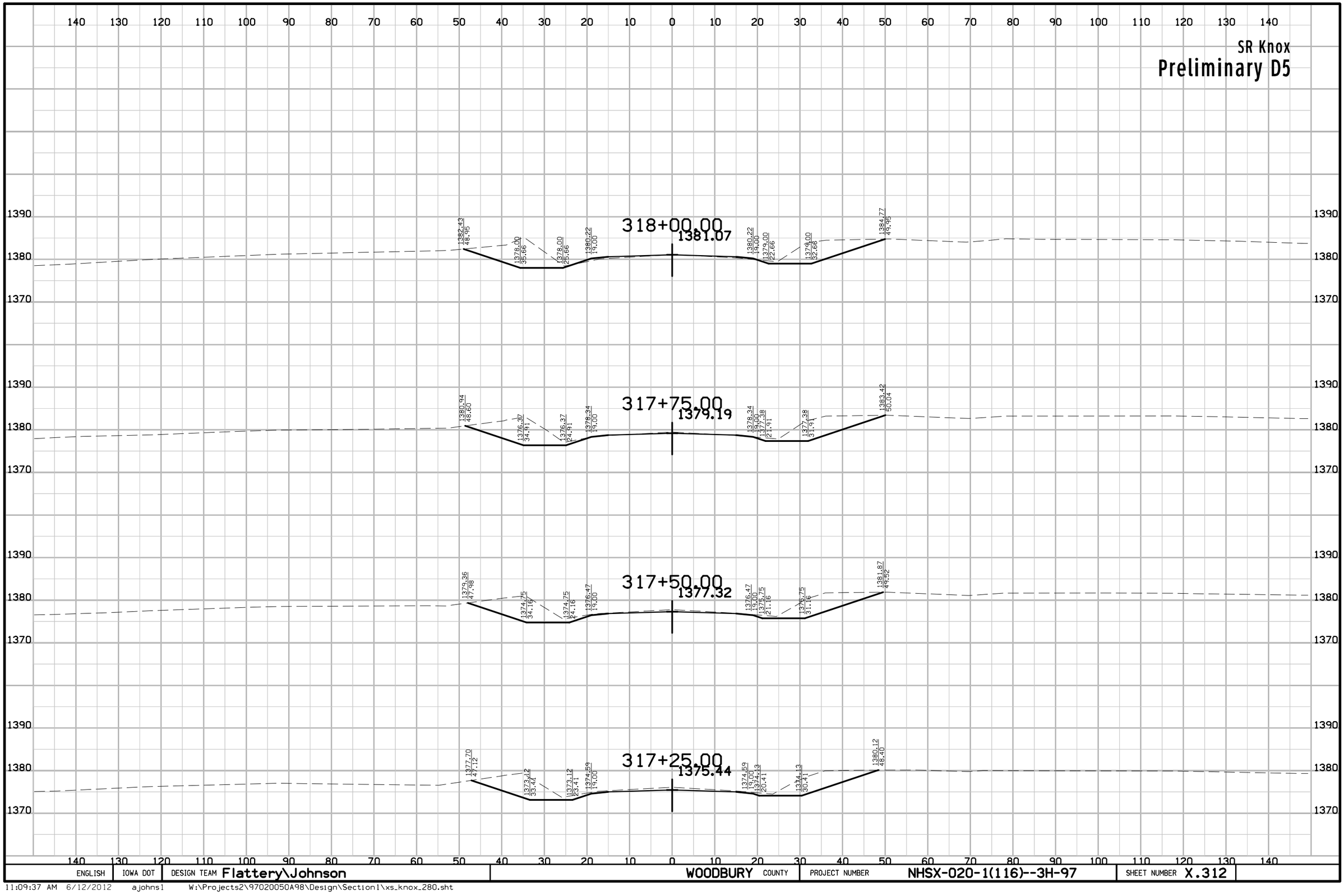
SR Knox

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.312

11:09:37 AM 6/12/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

SR Kossuth

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1400
1390
1380
1370

403+25.00

1375.70
30.86
1375.70
27.77
1379.42
16.59
1379.87
19.00
1376.70
38.51
1376.70
38.51
1379.50
46.90

404+00.00

1376.04
38.88
1375.60
37.95
1375.60
27.95
1378.45
19.00
1379.18
19.00
1376.60
25.74
1376.60
36.74
1380.31
47.86

403+75.00

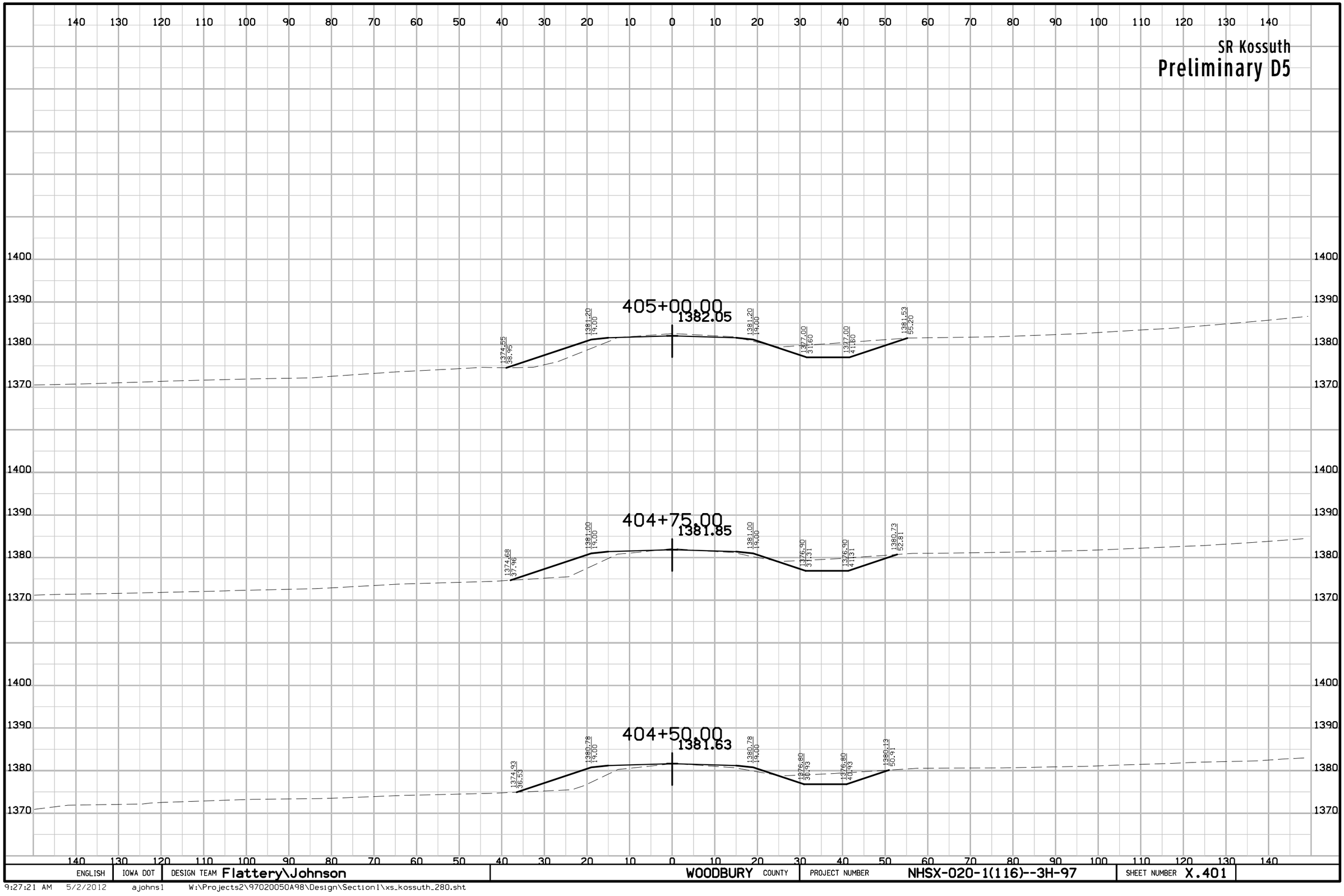
1375.50
38.19
1375.50
28.54
1378.68
19.00
1378.63
19.00
1376.50
25.39
1376.50
35.39
1379.83
45.37

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.400

9:27:21 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.401

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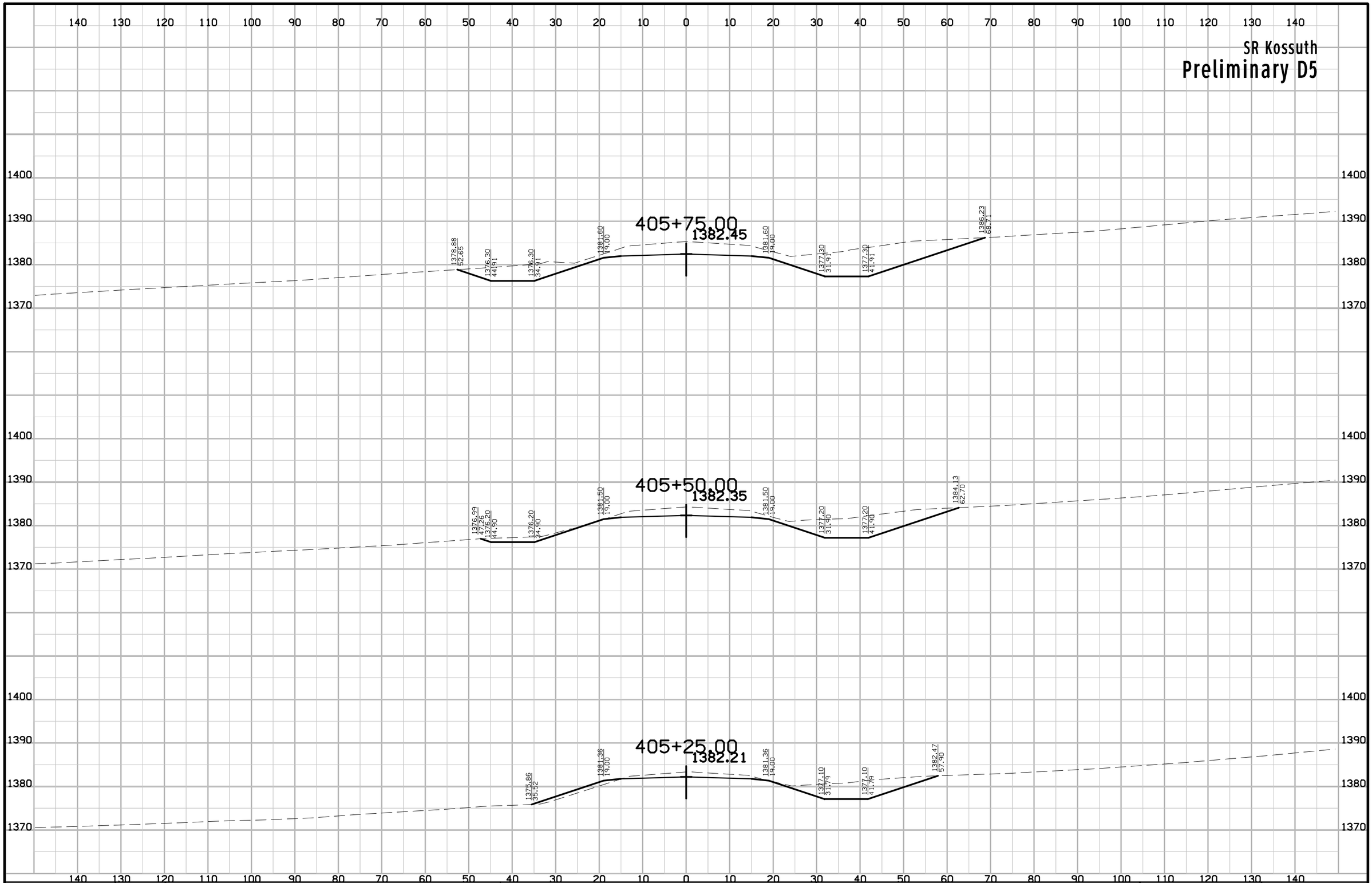
SR Kossuth

Preliminary D5

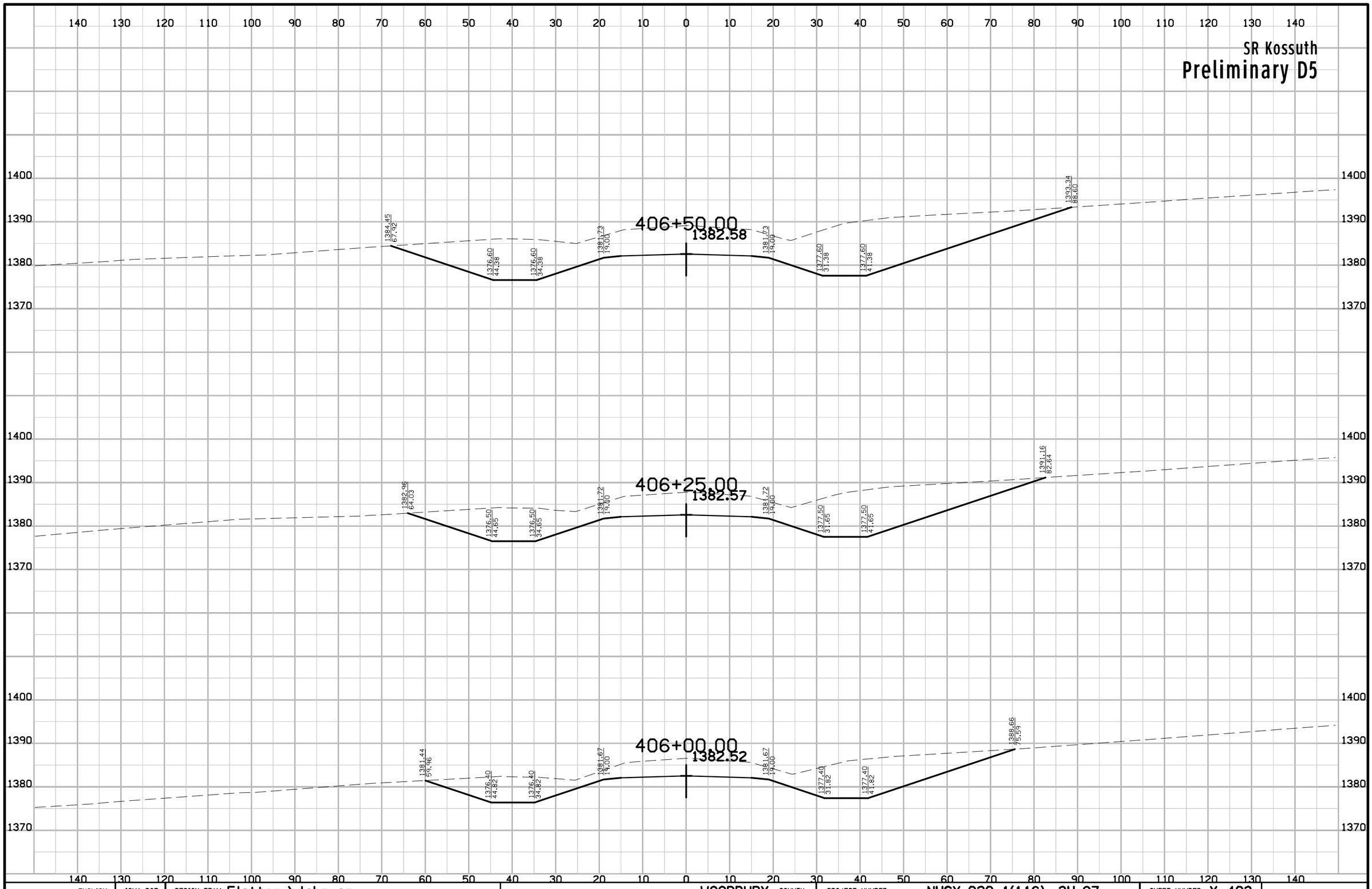


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.402

9:27:22 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D5

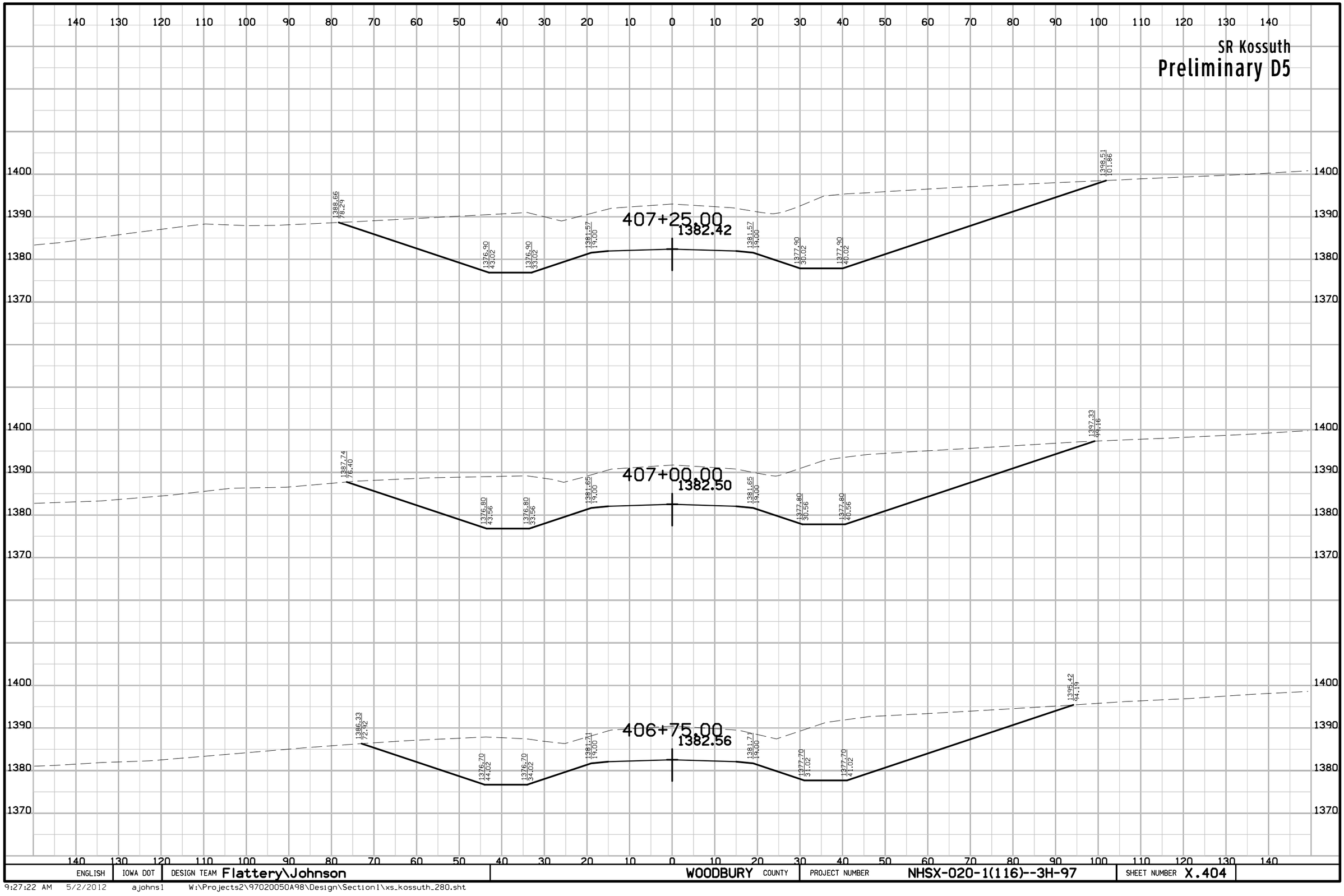


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.403

9:27:22 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.404

9:27:22 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1400
1390
1380
1370

1389.87
90.22
1376.30
49.52
1376.30
33.52
1381.14
19.00
408+00.00
1381.99
1381.14
19.00
1377.40
30.22
1377.40
50.22
1402.40
125.23
1403.90
140.23
1404.15
140.98

1389.74
84.51
1376.65
45.24
1376.65
32.99
1381.31
19.00
407+75.00
1382.16
1381.31
19.00
1377.70
29.84
1377.70
44.84
1400.96
114.62

1389.19
78.96
1377.00
42.38
1377.00
32.38
1381.46
19.00
407+50.00
1382.31
1381.46
19.00
1378.00
29.38
1378.00
39.38
1399.40
103.59

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.405

9:27:22 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D5

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

1400
1390
1380
1370

1390.61 105.61
1377.77 67.11
1377.77 52.11
1375.25 44.54
1375.25 34.54
1380.43 19.00
408+75.00
1381.28
1380.43 19.00
1376.50 30.78
1376.50 40.79
1382.23 57.96
1381.62 72.96
1404.75 142.35

1390.18 101.55
1375.60 57.79
1375.60 34.29
1380.70 19.00
408+50.00
1381.55
1380.70 19.00
1376.80 30.69
1376.80 40.69
1380.37 51.42
1380.37 66.41
1404.61 139.13

1389.91 95.60
1375.95 55.70
1375.95 33.95
1380.93 19.00
408+25.00
1381.78
1380.93 19.00
1377.10 30.50
1377.10 40.50
1377.75 42.76
1377.25 55.95
1402.31 131.41
1401.65 145.96
1404.39 154.17

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.406

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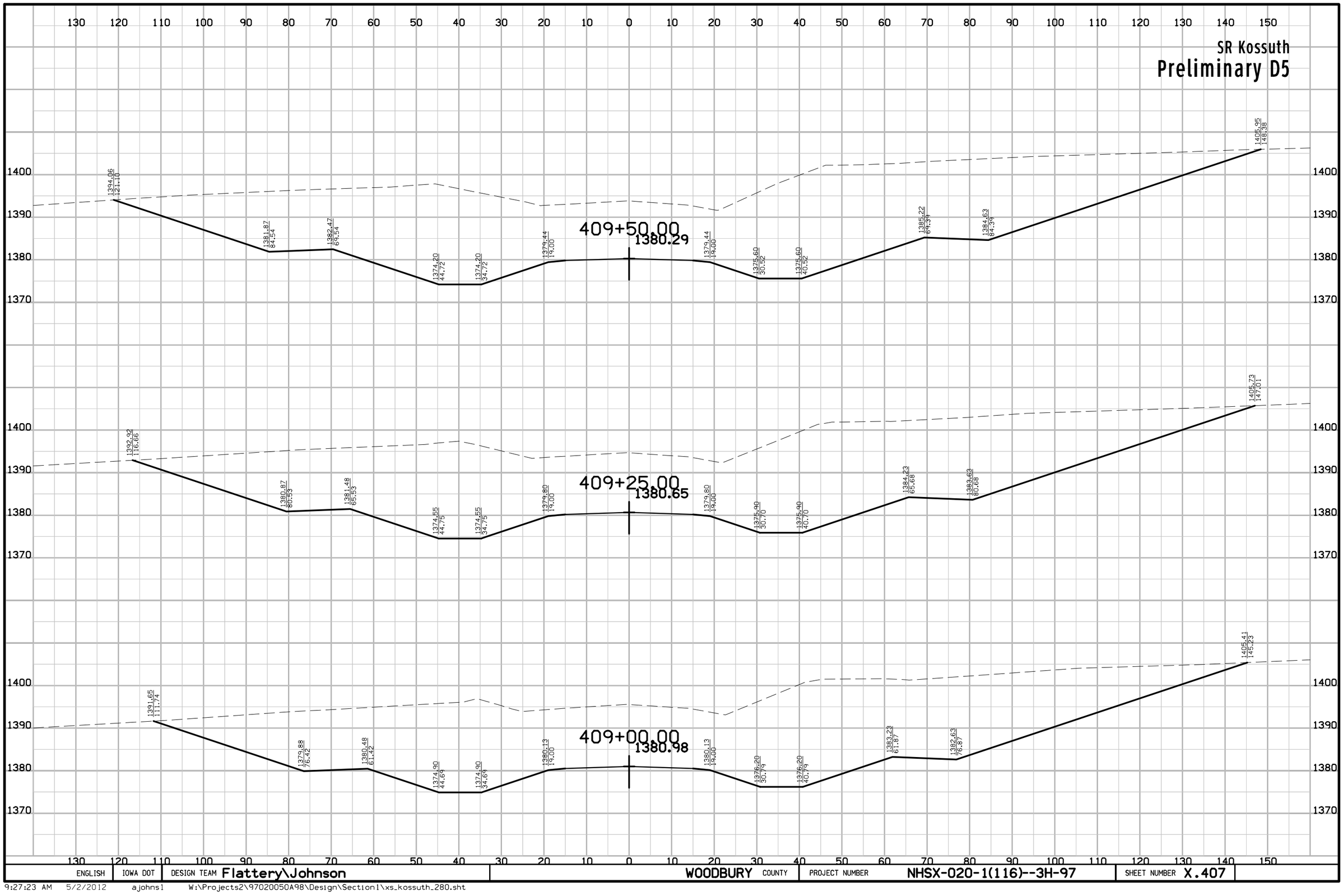
SR Kossuth

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.407

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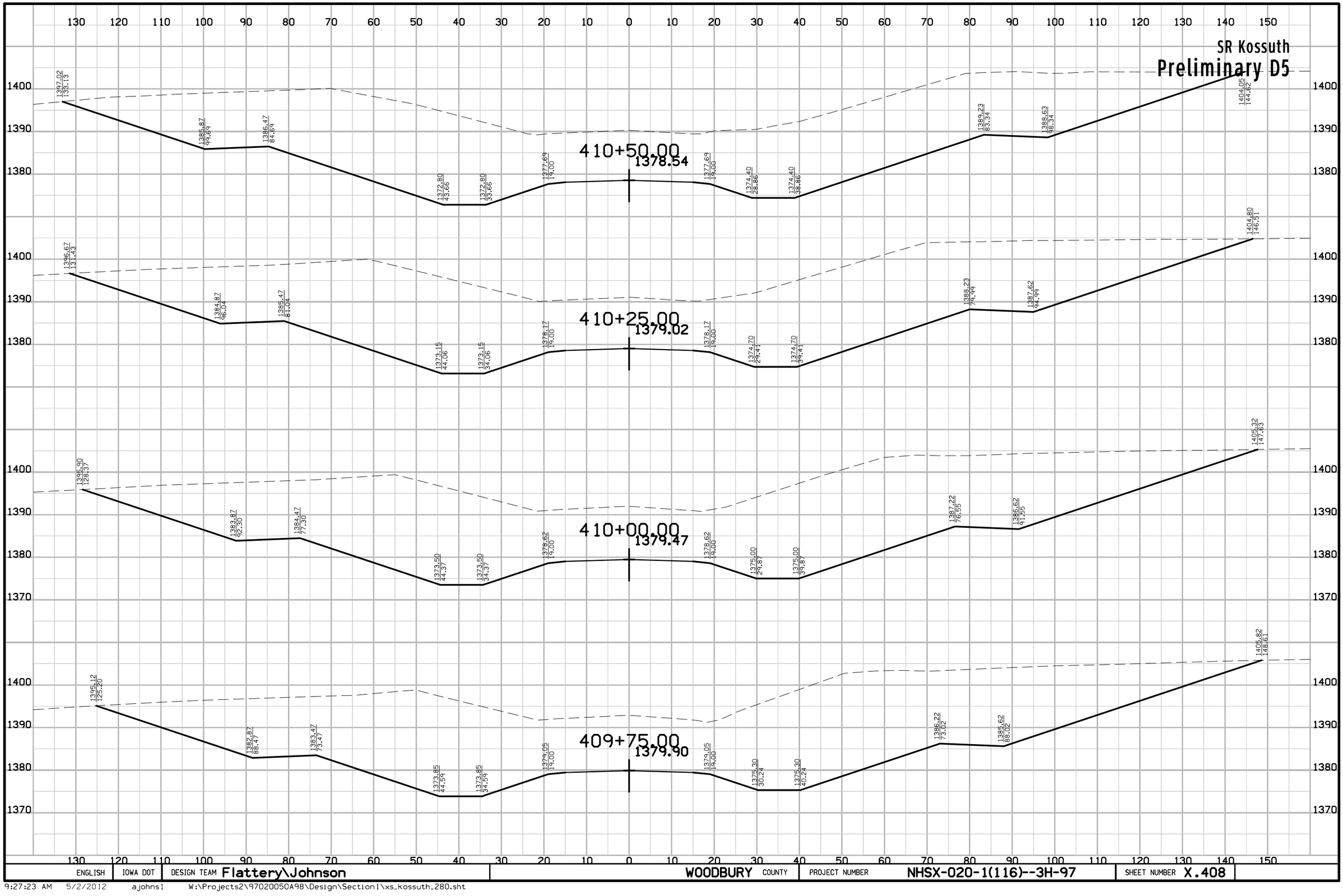
SR Kossuth

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.408

9:27:23 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1400
1390
1380

1392.56 123.70
1390.88 118.63
1391.48 103.63
1371.05 42.35
1371.05 32.35
1375.50 19.00
1375.50 19.00
1372.90 26.80
1372.90 36.80
1387.96 81.99

411+75.00
1376.35

1398.39 139.86
1389.88 114.32
1390.48 99.32
1371.40 42.09
1371.40 32.09
1376.76 19.00
1376.76 19.00
1373.20 26.69
1373.20 36.69
1395.97 105.01

411+50.00
1376.61

1399.12 141.23
1388.87 110.49
1389.48 95.49
1371.75 42.31
1371.75 32.31
1376.19 19.00
1376.19 19.00
1373.50 27.06
1373.50 37.06
1392.23 93.24
1391.63 108.24
1400.25 134.11

411+25.00
1377.04

1398.91 140.00
1387.88 106.89
1388.47 91.89
1372.10 42.76
1372.10 32.76
1376.69 19.00
1376.69 19.00
1373.80 27.66
1373.80 37.66
1391.22 89.94
1390.62 104.94
1401.85 138.61

411+00.00
1377.54

1398.00 136.68
1386.88 103.29
1387.48 88.29
1372.45 43.21
1372.45 33.21
1377.19 19.00
1377.19 19.00
1374.10 28.26
1374.10 38.26
1390.23 86.64
1389.62 101.64
1403.07 141.98

410+75.00
1378.04

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.409

9:27:24 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D5

413+25.00
1378.04

413+00.00
1377.36

412+75.00
1376.85
1371.58 68.87
1369.65 63.08
1369.65 53.08
1376.00 19.00
1376.00 19.00
1371.70 43.43
1371.70 53.43
1375.62 65.19

412+50.00
1376.49
1376.64 69.84
1370.00 49.92
1370.00 39.92
1375.64 19.00
1375.64 19.00
1372.00 33.04
1372.00 43.03
1380.63 68.94

412+25.00
1376.29
1383.07 82.41
1370.35 44.26
1370.35 34.26
1375.44 19.00
1375.44 19.00
1372.30 28.41
1372.30 38.41
1386.87 82.12

412+00.00
1376.24
1390.98 103.40
1370.70 43.07
1370.70 33.07
1375.39 19.00
1375.39 19.00
1372.60 27.37
1372.60 37.37
1387.64 82.48

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.410

9:27:24 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1390
1380

414+75.00
1378.29

414+50.00
1378.40

414+25.00
1378.40

414+00.00
1378.40

413+75.00
1378.40

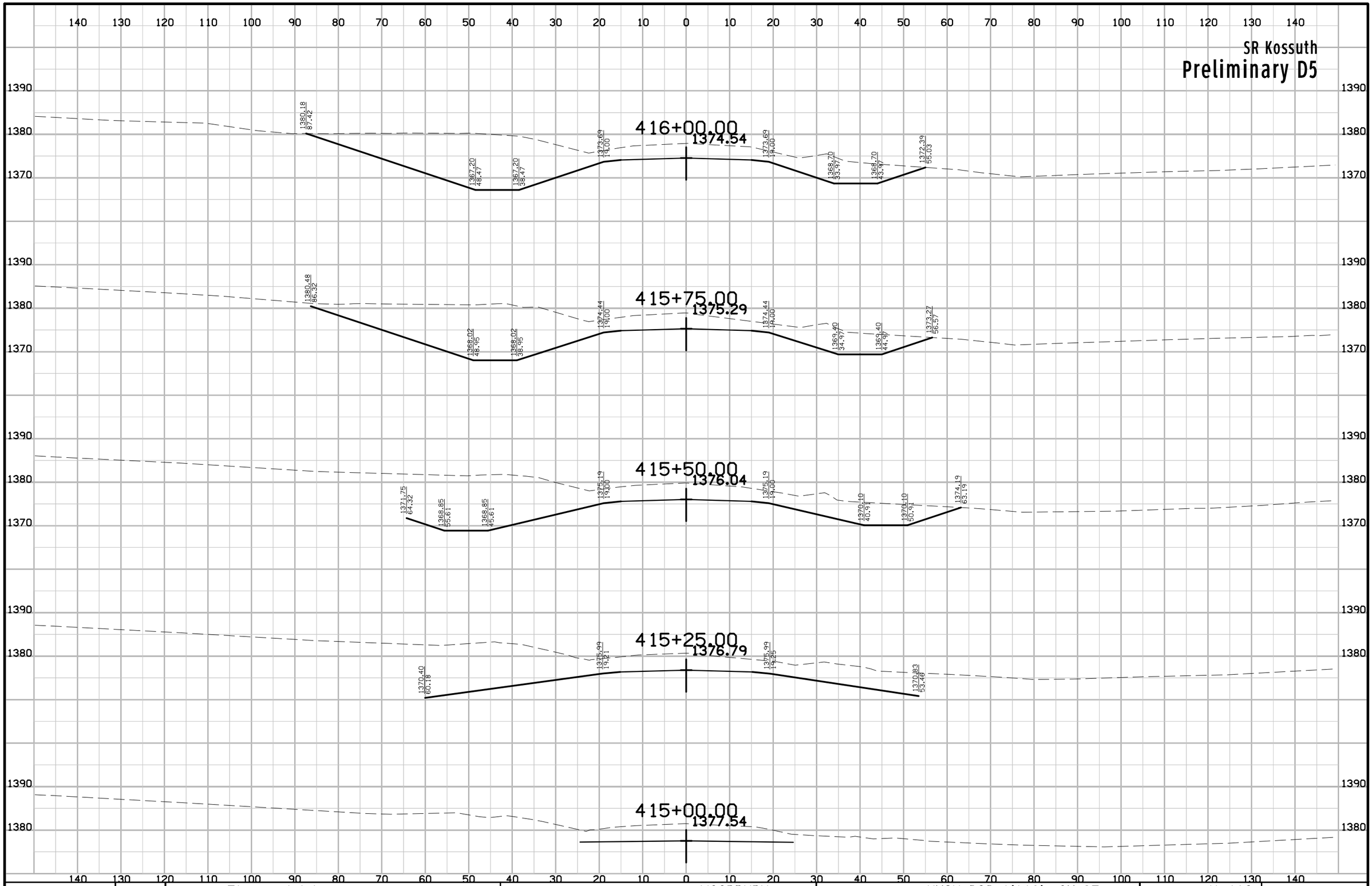
413+50.00
1378.40

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.411

9:27:24 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.412

9:27:24 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1380 / 1370 / 1360

1376.60 87.37 — 1363.90 49.25 — 1363.90 39.25 — 1370.65 19.00 — 1370.65 19.00 — 1365.90 33.25 — 1365.90 43.25 — 1369.03 52.64

417+00.00

1371.50

1380 / 1370 / 1360

1376.50 84.48 — 1364.73 49.14 — 1364.73 39.14 — 1371.44 19.00 — 1371.44 19.00 — 1366.60 33.52 — 1366.60 43.42 — 1369.94 53.55

416+75.00

1372.29

1380 / 1370 / 1360

1383.20 101.88 — 1365.55 48.92 — 1365.55 38.92 — 1372.19 19.00 — 1372.19 19.00 — 1367.30 33.67 — 1367.30 43.67 — 1370.88 54.41

416+50.00

1373.04

1380 / 1370

1381.65 94.51 — 1366.37 48.69 — 1366.37 38.69 — 1372.94 19.00 — 1372.94 19.00 — 1368.00 33.82 — 1368.00 43.82 — 1371.69 54.89

416+25.00

1373.79

1380 / 1370

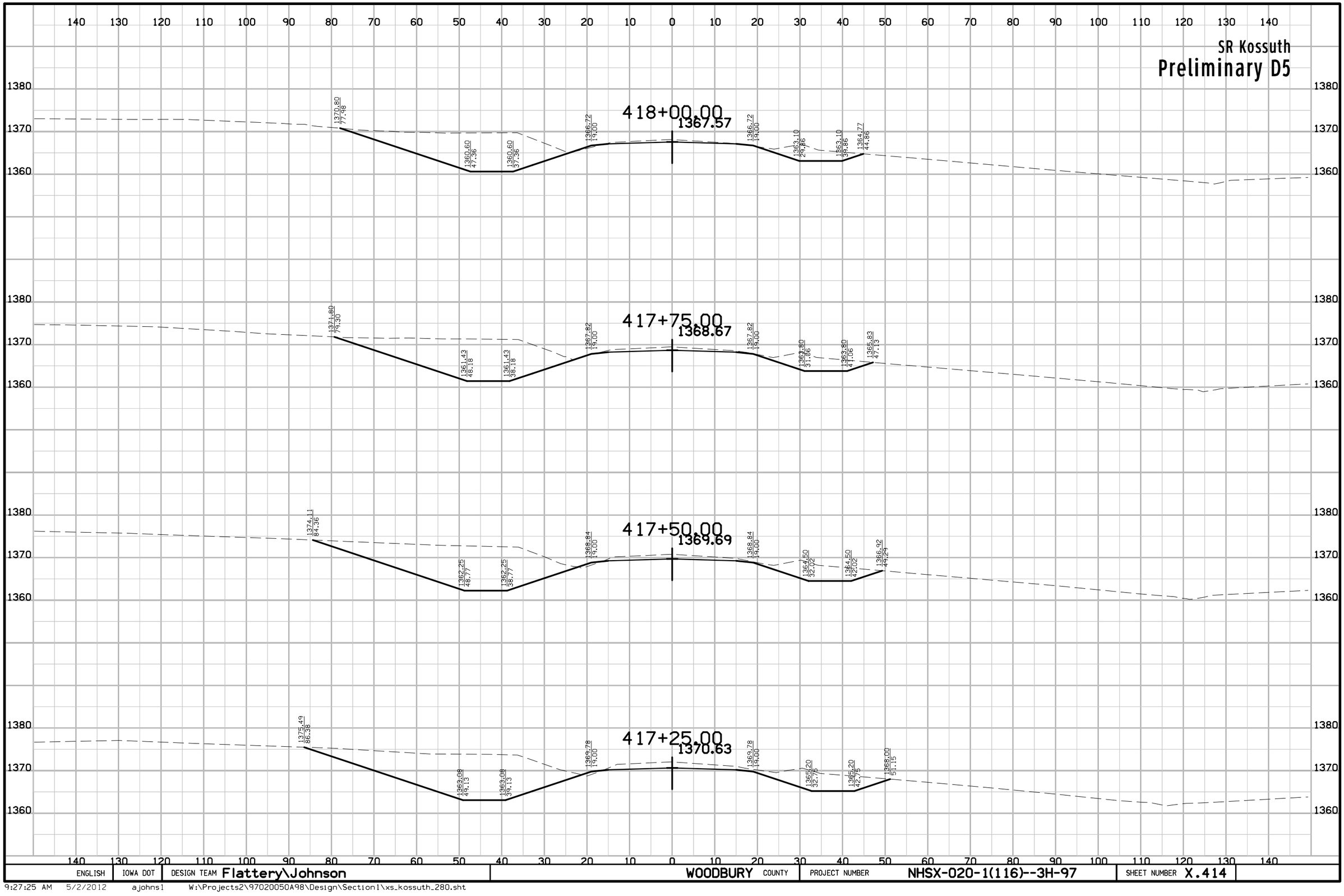
140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.413

9:27:25 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.414

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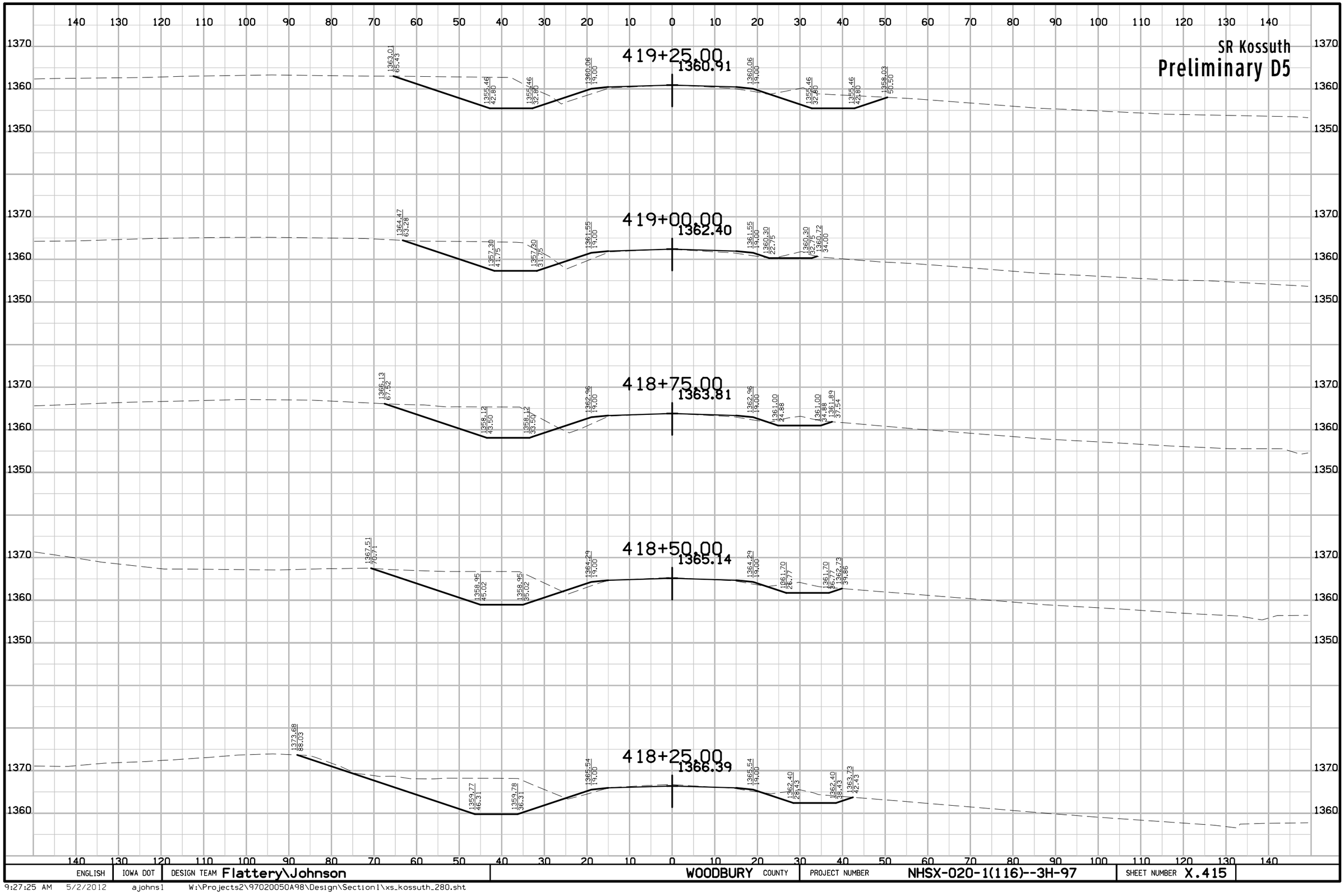
SR Kossuth

Preliminary D5



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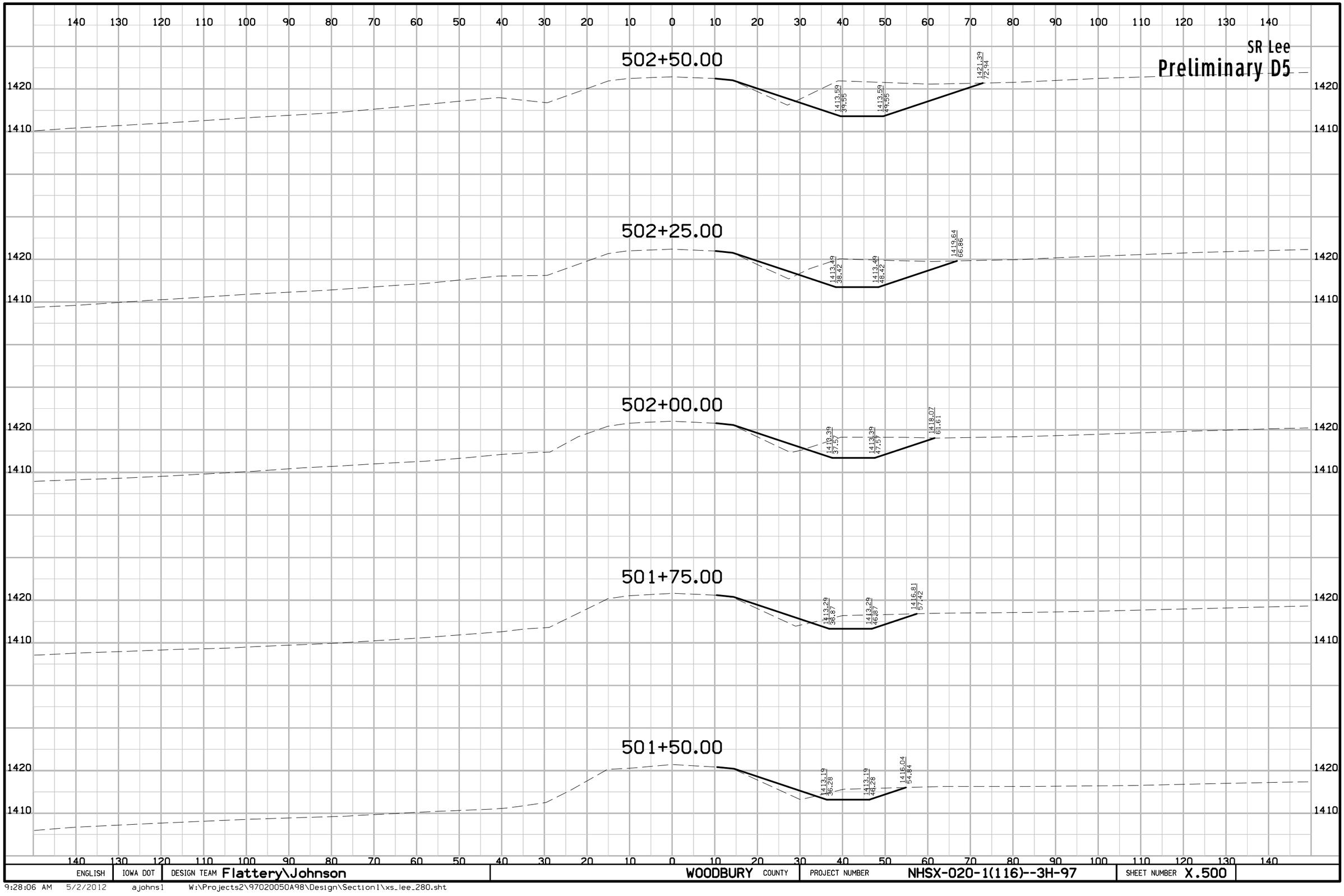
SR Lee

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.500

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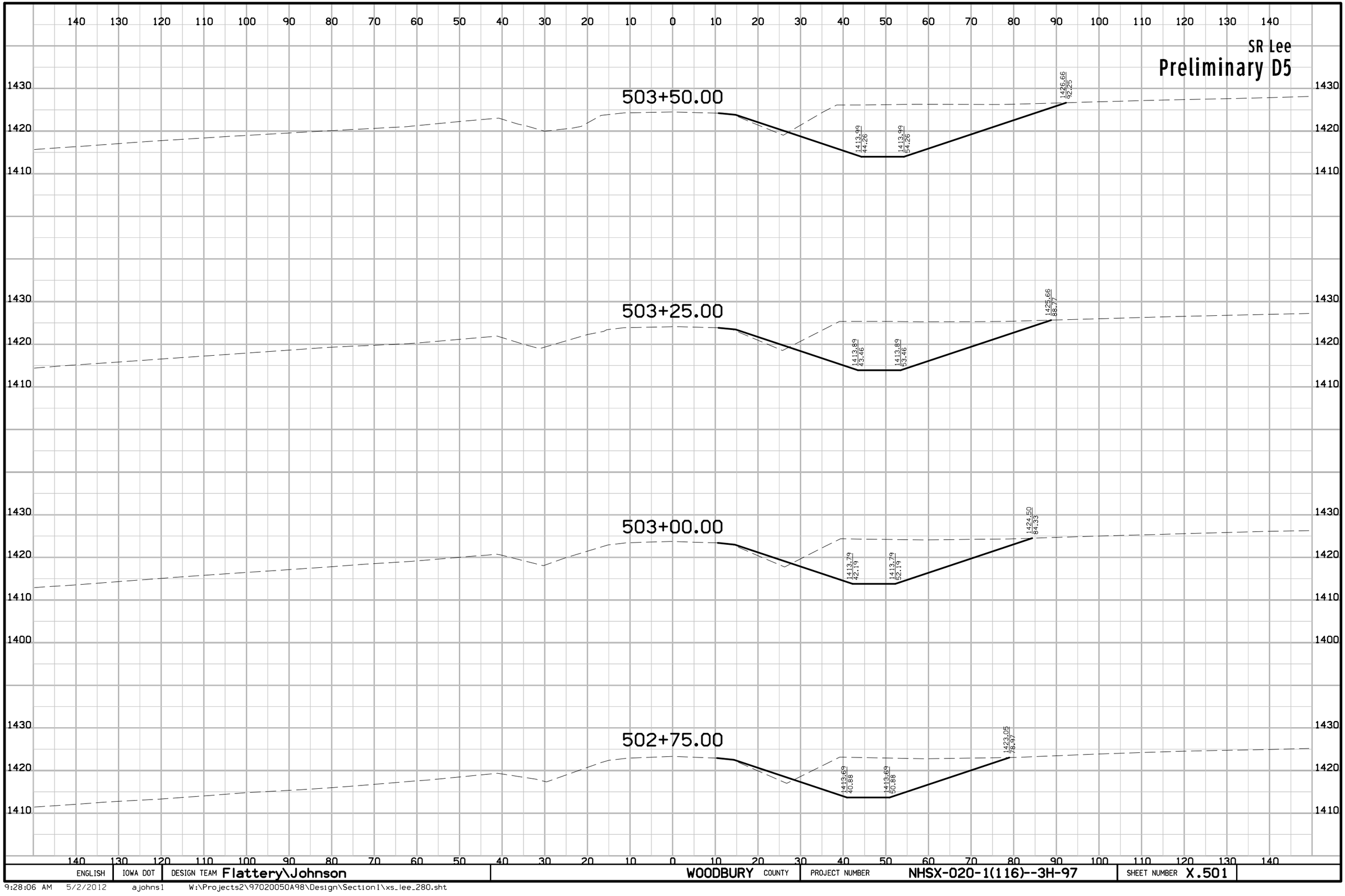
SR Lee

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.501

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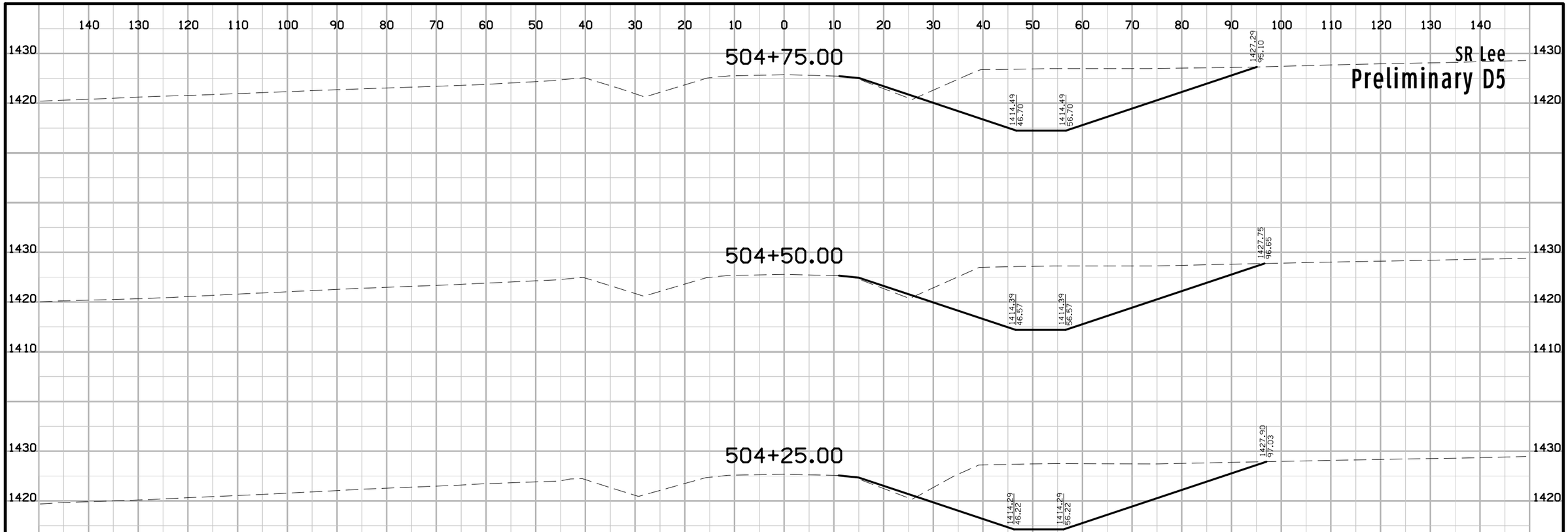
SR Lee

Preliminary D5

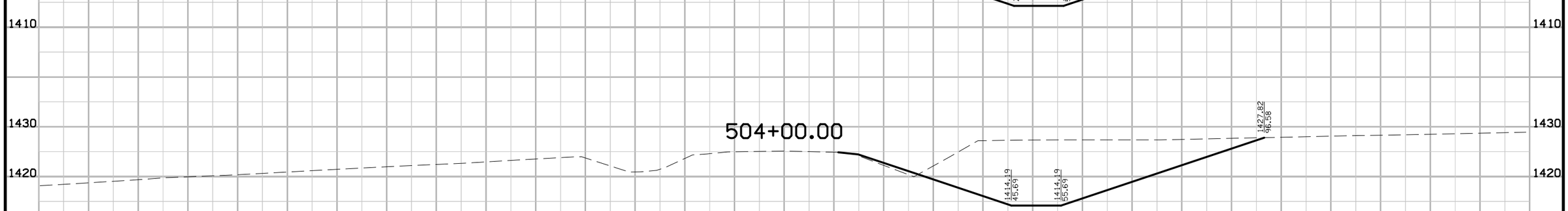
504+75.00



504+50.00

504+25.00

504+00.00



503+75.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.502

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SR Lee

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1430
1420

506+25.00

1415.09
43.95

1415.09
53.95

1424.93
83.48

506+00.00

1414.99
44.66

1414.99
54.66

1425.43
85.98

505+75.00

1414.89
45.30

1414.89
55.30

1426.05
88.79

505+50.00

1414.79
45.92

1414.79
55.92

1426.60
91.34

505+25.00

1414.69
46.37

1414.69
56.37

1426.75
92.54

505+00.00

1414.59
46.78

1414.59
56.78

1426.92
93.76

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.503

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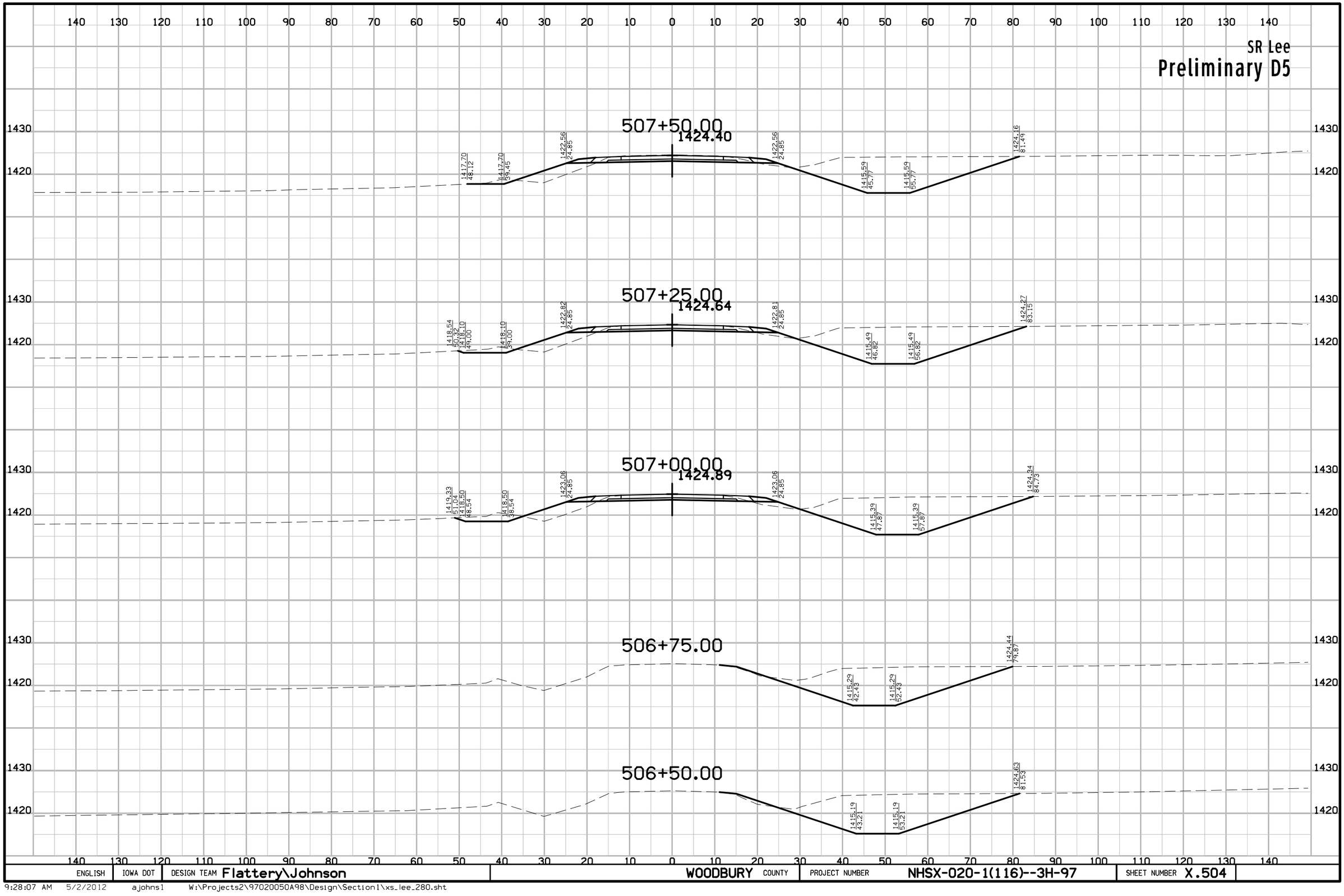
SR Lee

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.504

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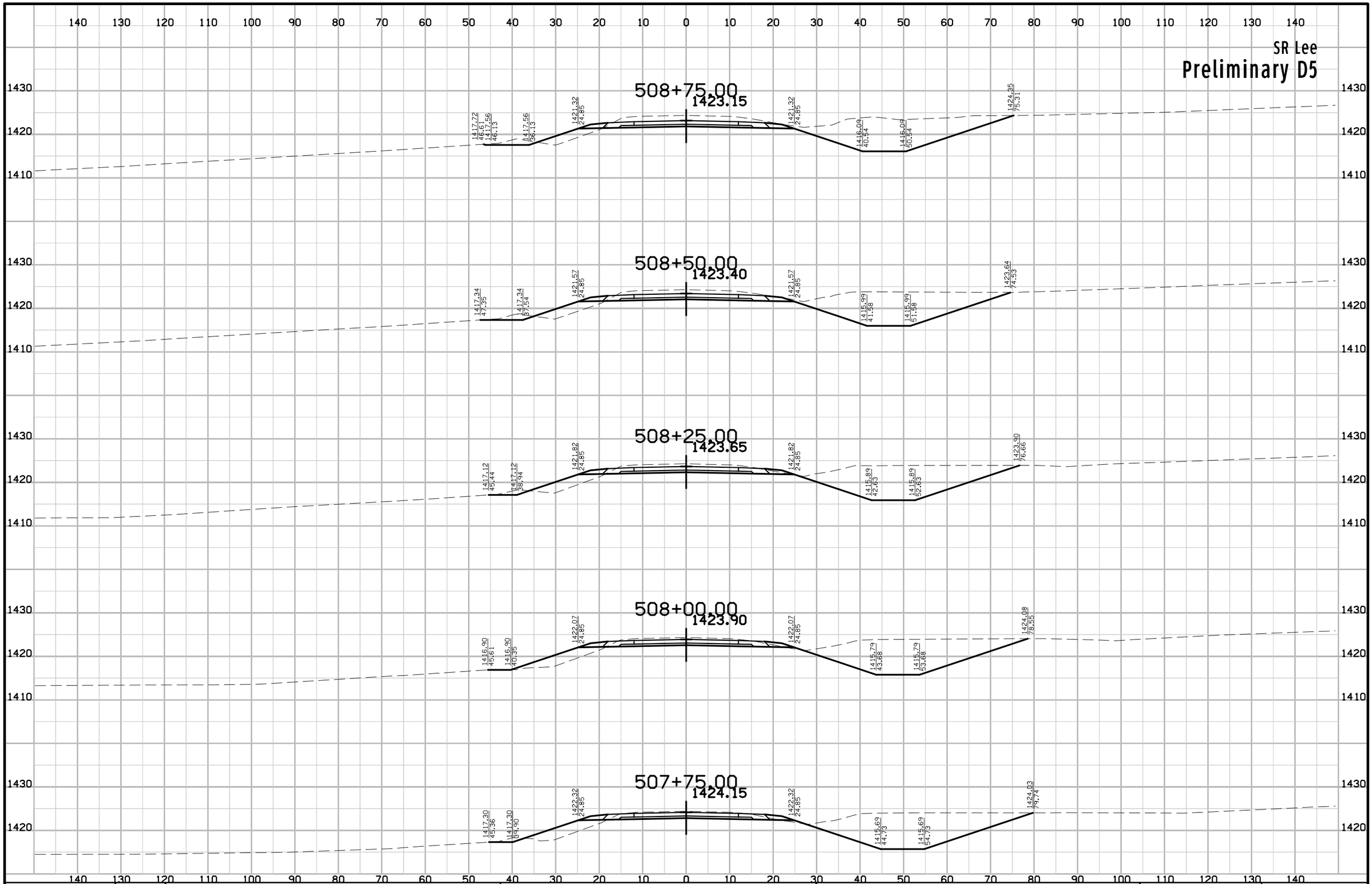
SR Lee

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.505

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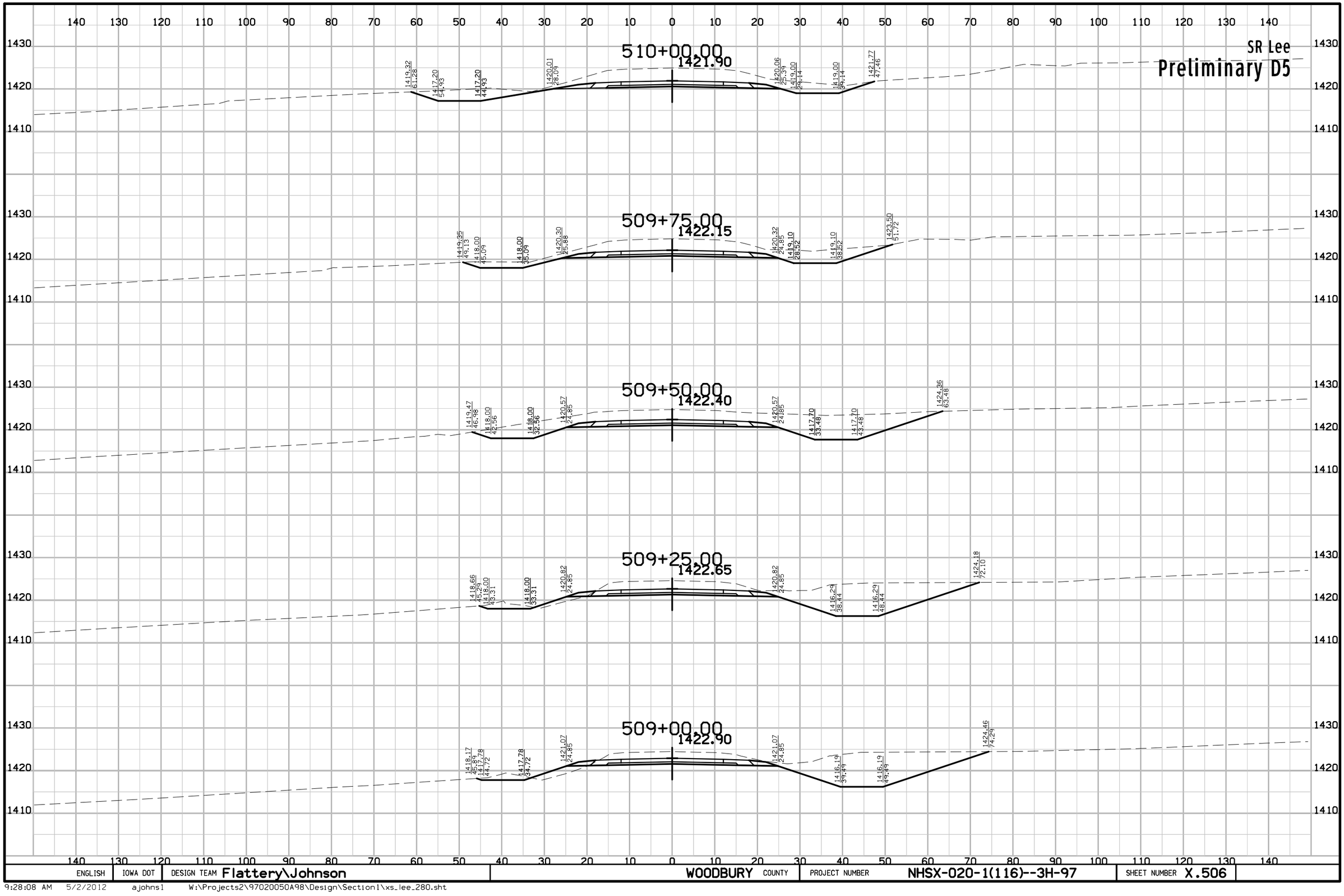
SR Lee

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.506

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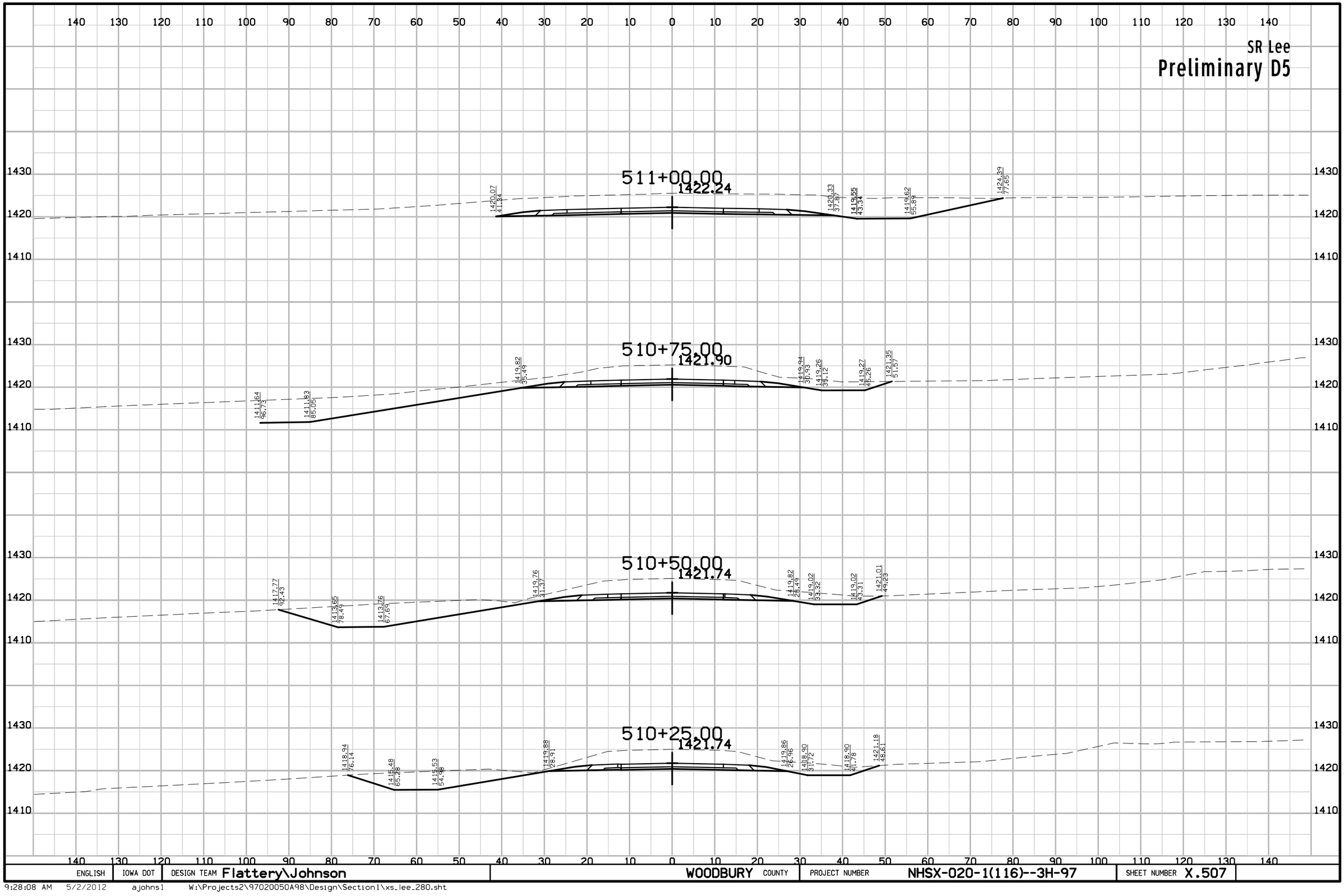
SR Lee

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.507

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SR Lee

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1430
1420
1410

512+00.00
1424.02

511+75.00
1424.01

511+50.00
1423.40
1420.95
80.86

511+25.00
1422.74
1420.46
51.17
1421.33
57.14
1420.06
78.35

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.508

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SR Lee

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1430
1420
1410
1400

512+75.00
1424.03

512+50.00
1424.02

512+25.00
1424.02

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.509

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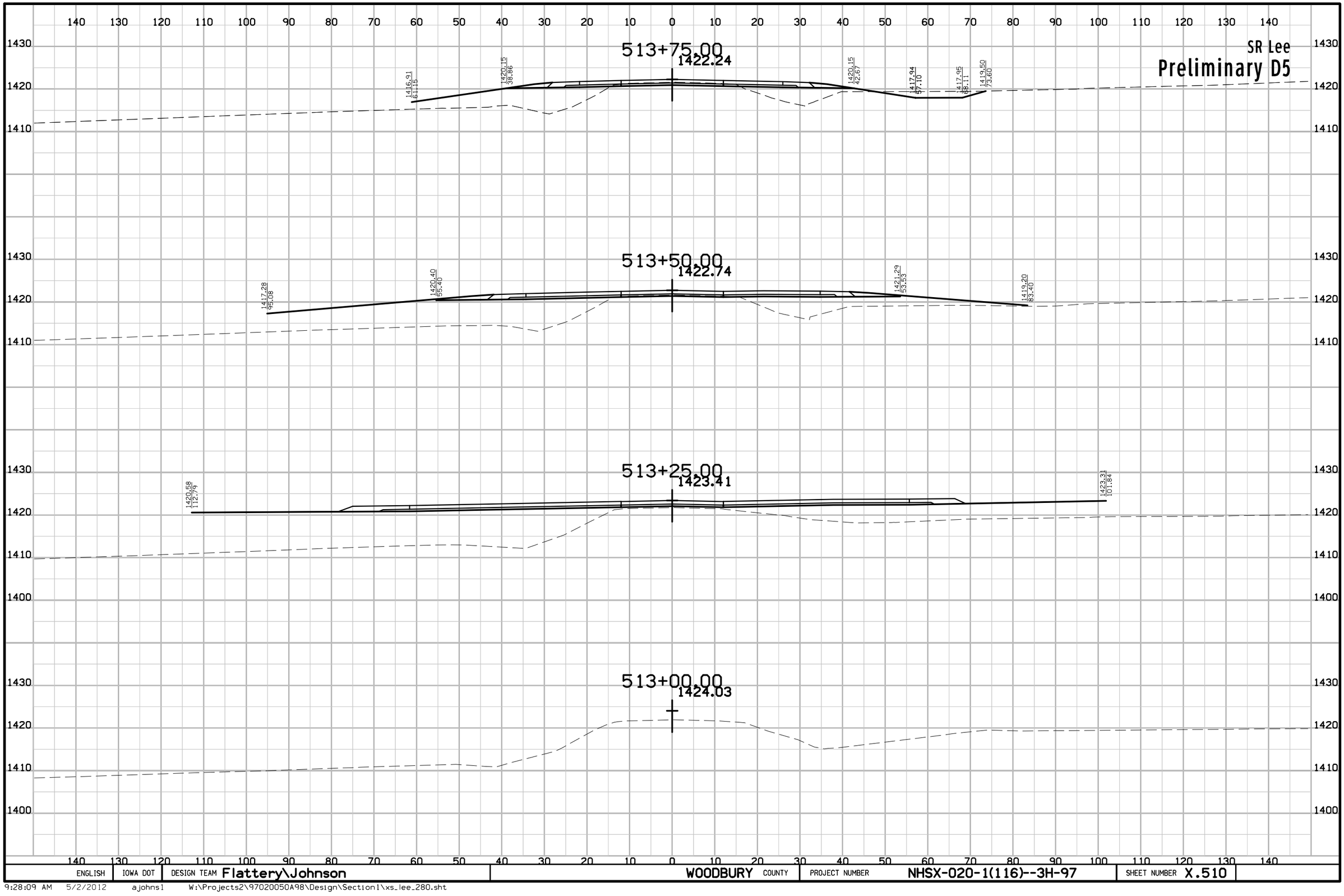
SR Lee

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.510

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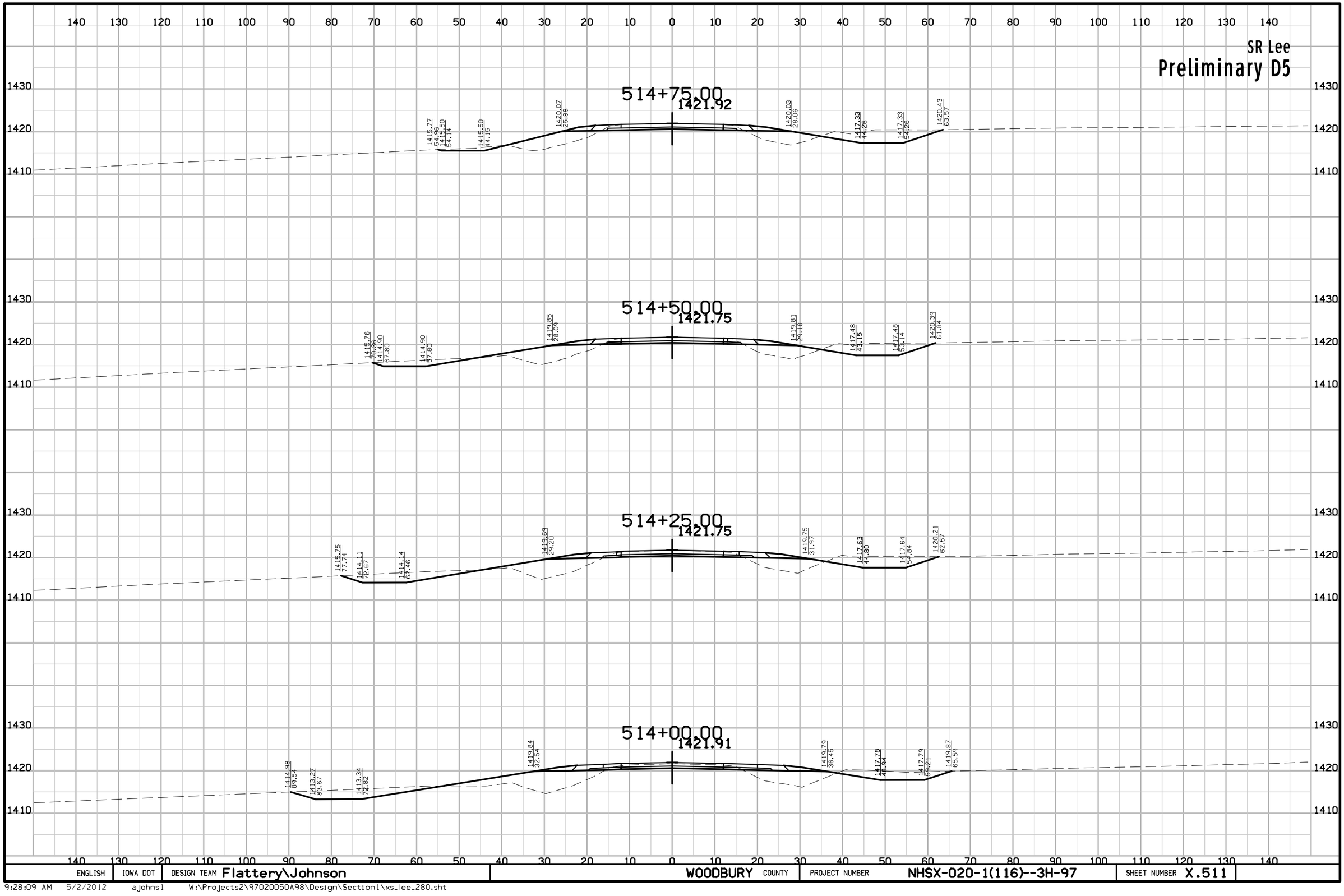
SR Lee

Preliminary D5



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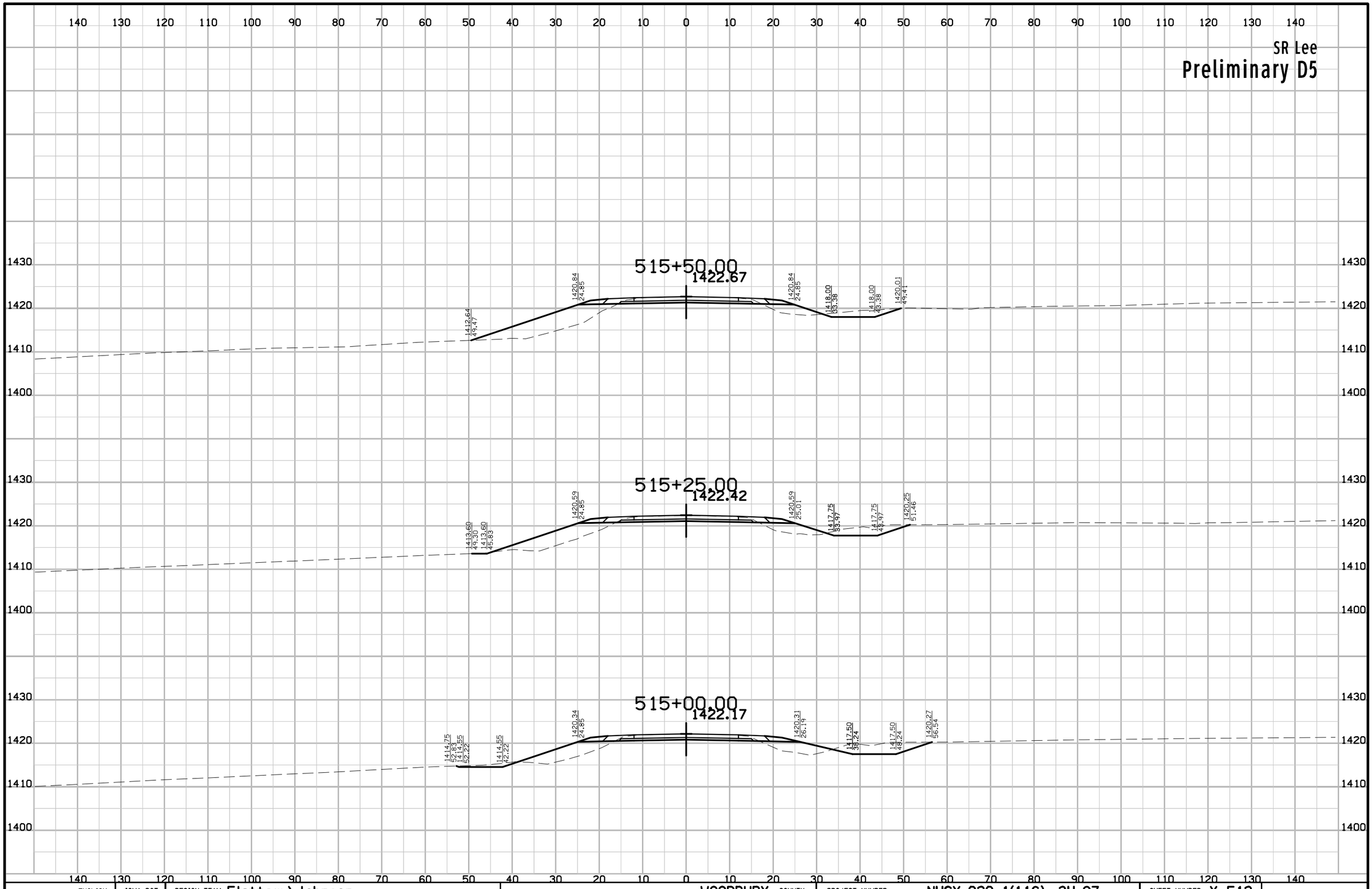
SR Lee

Preliminary D5



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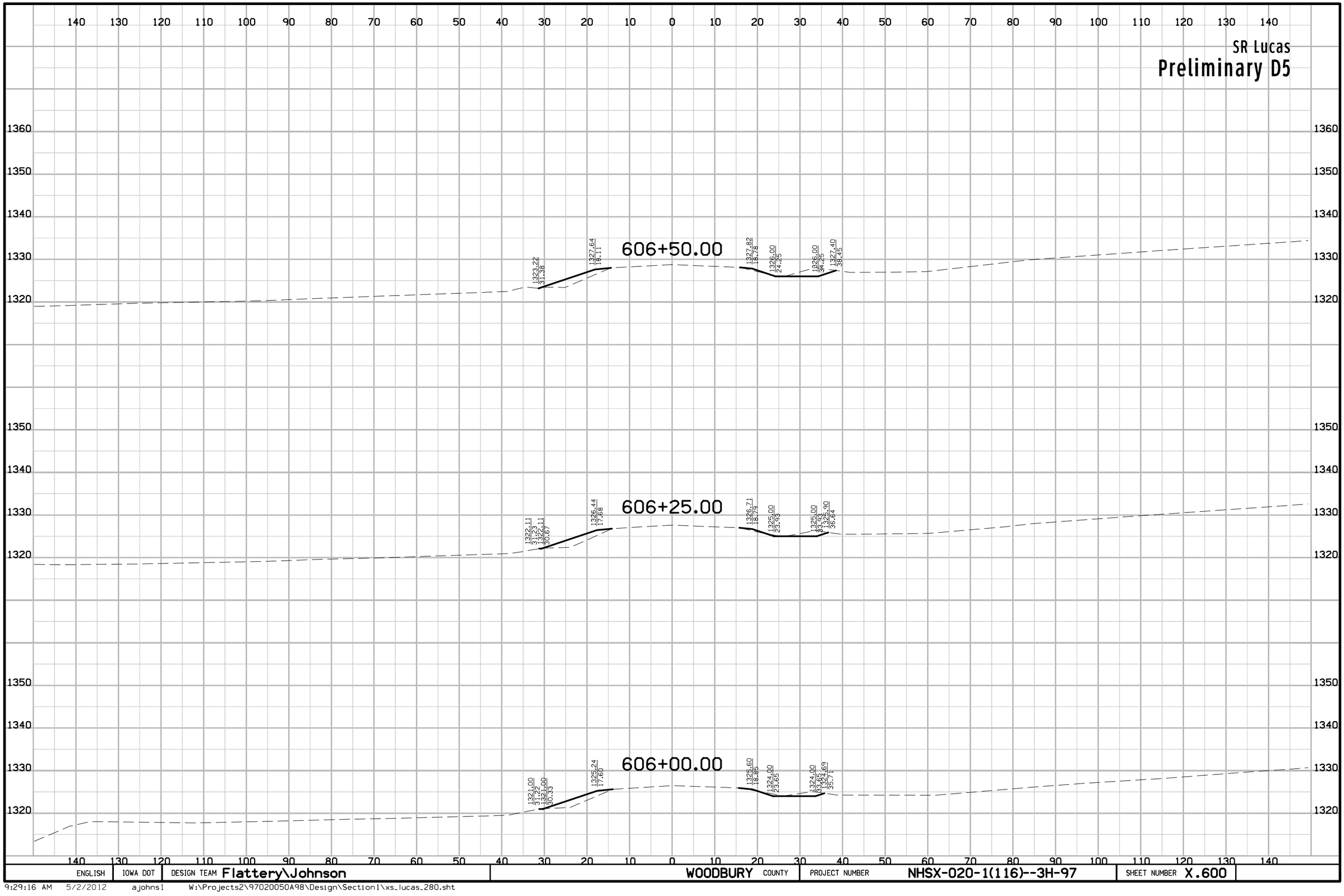
SR Lucas

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.600

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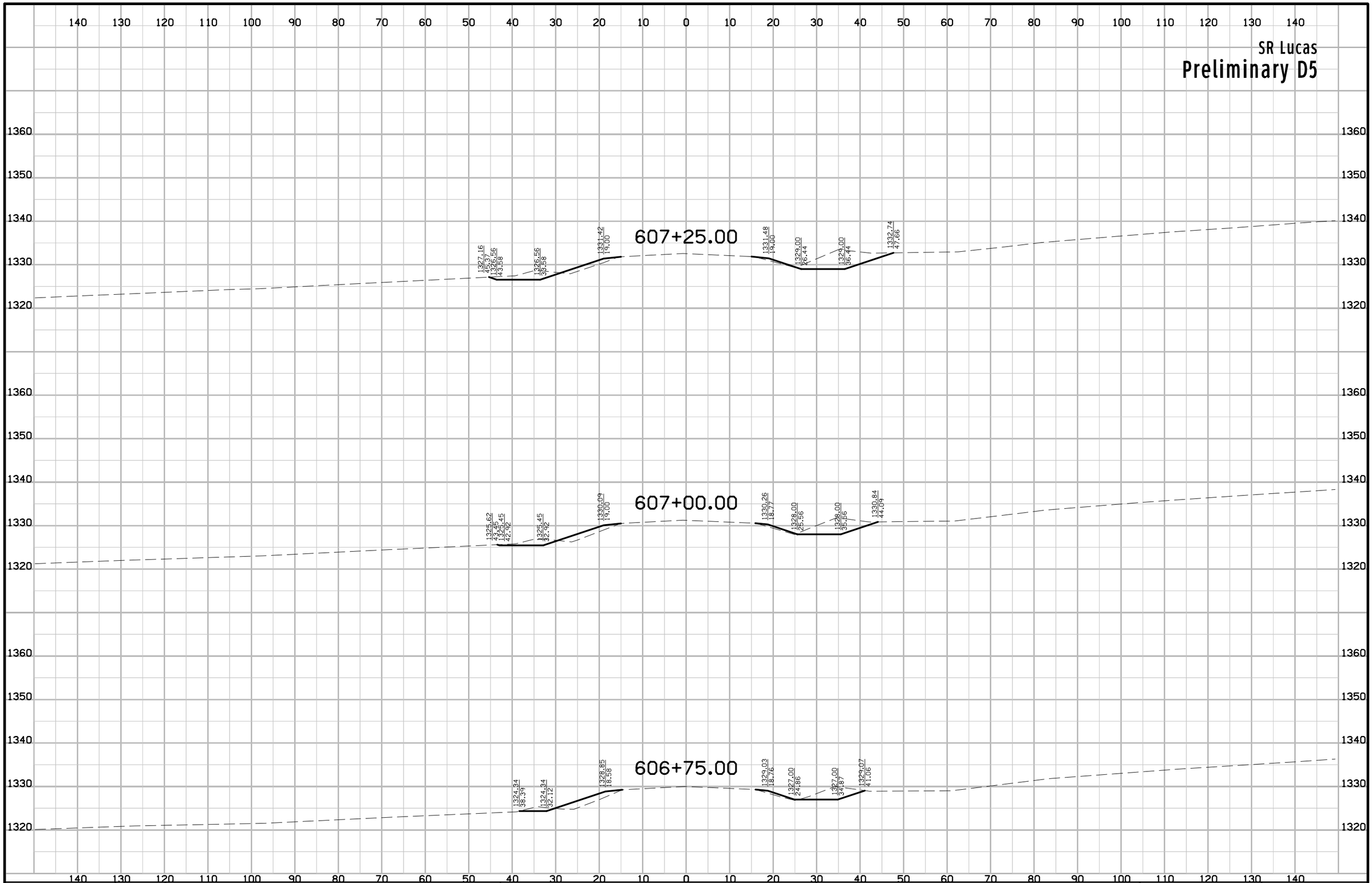
SR Lucas

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.601

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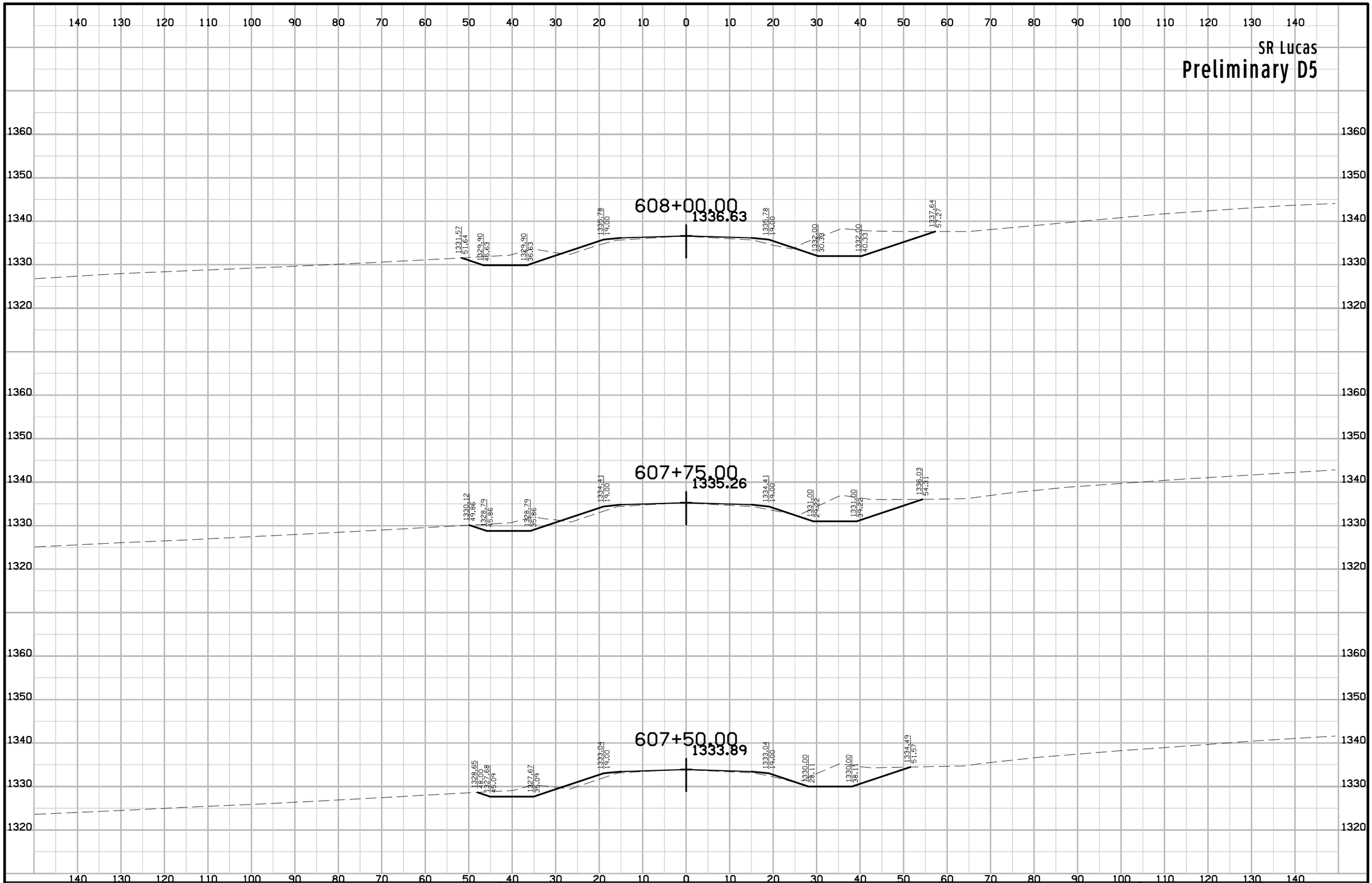
SR Lucas

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.602

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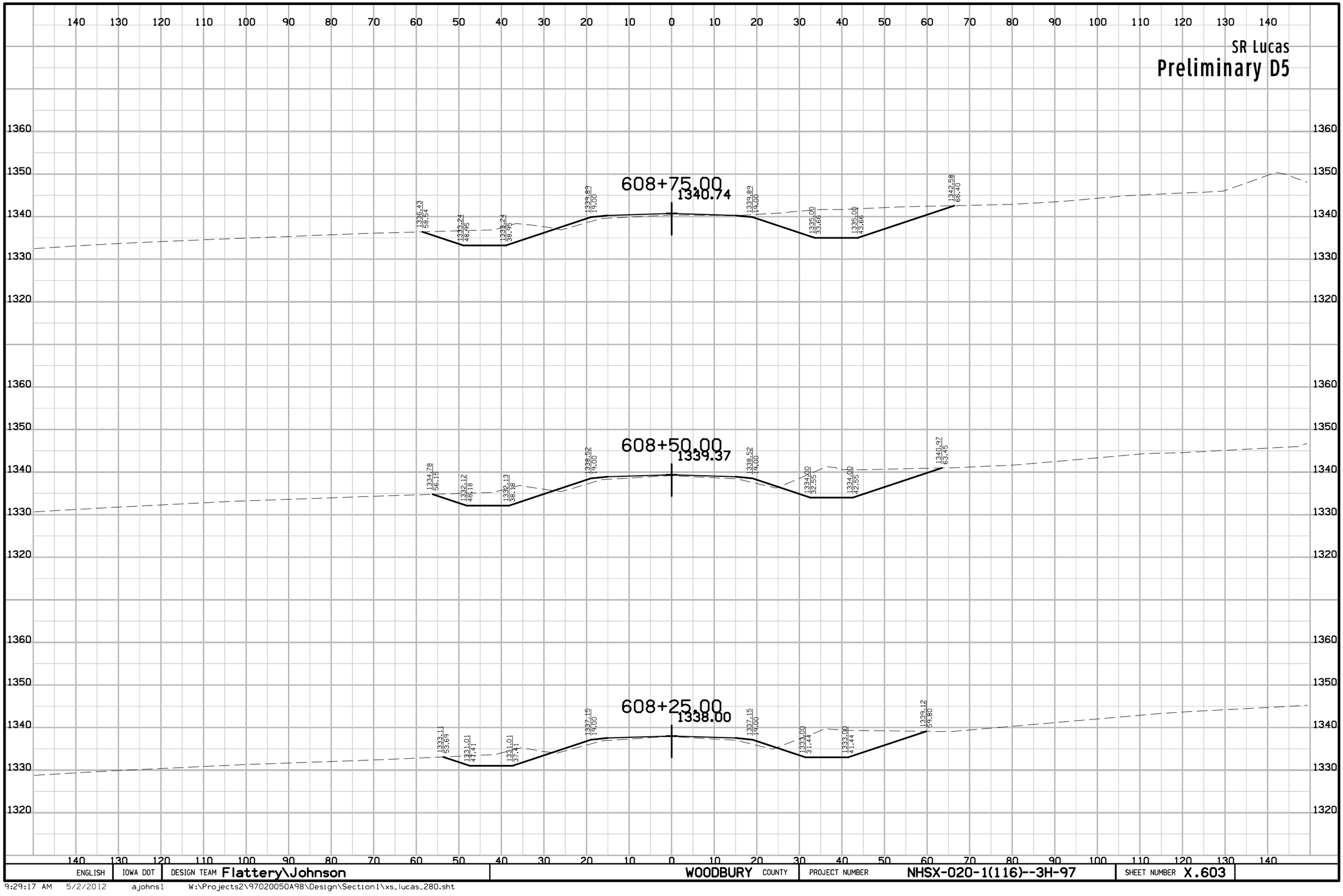
SR Lucas

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.603

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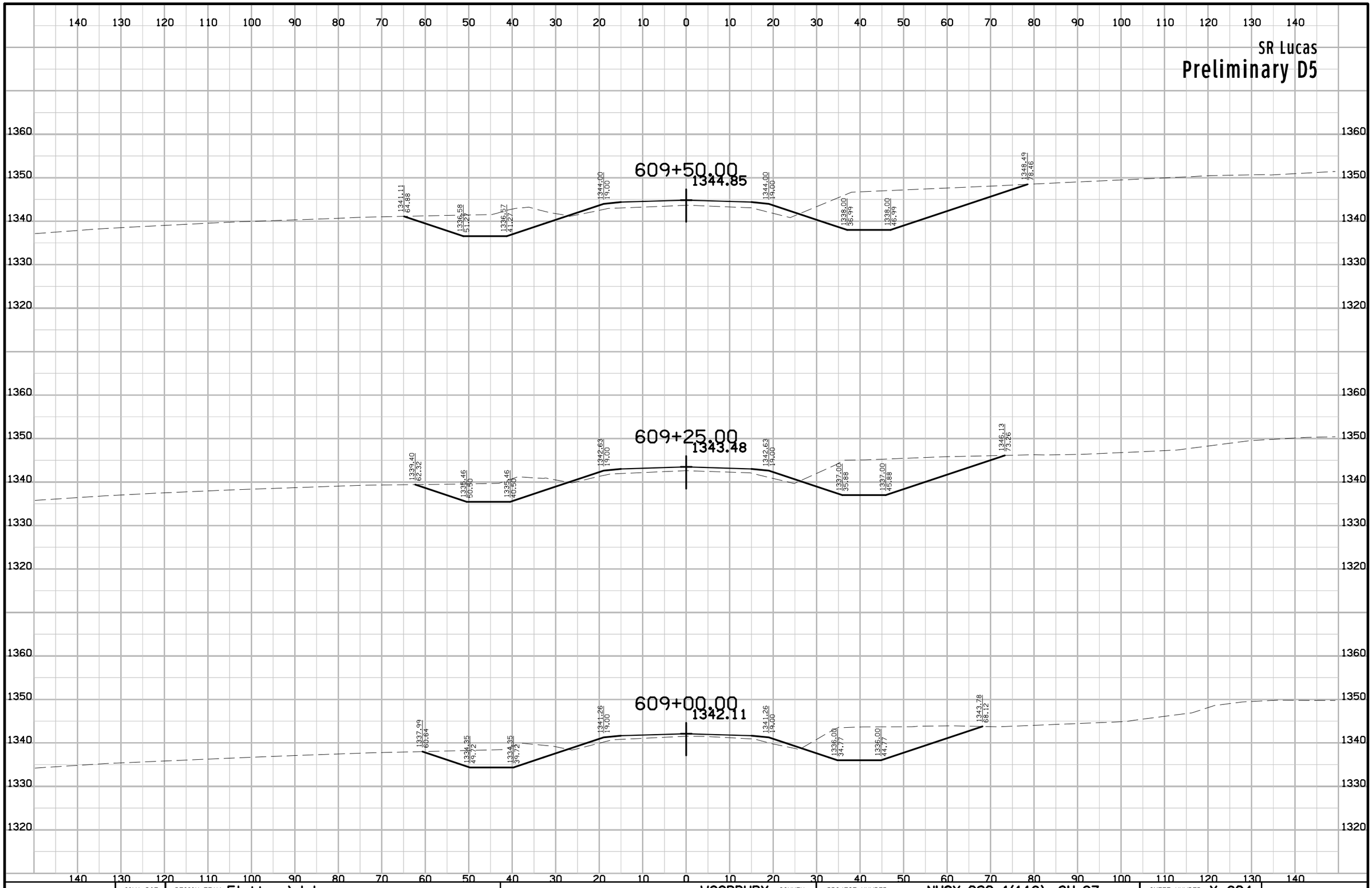
SR Lucas

Preliminary D5



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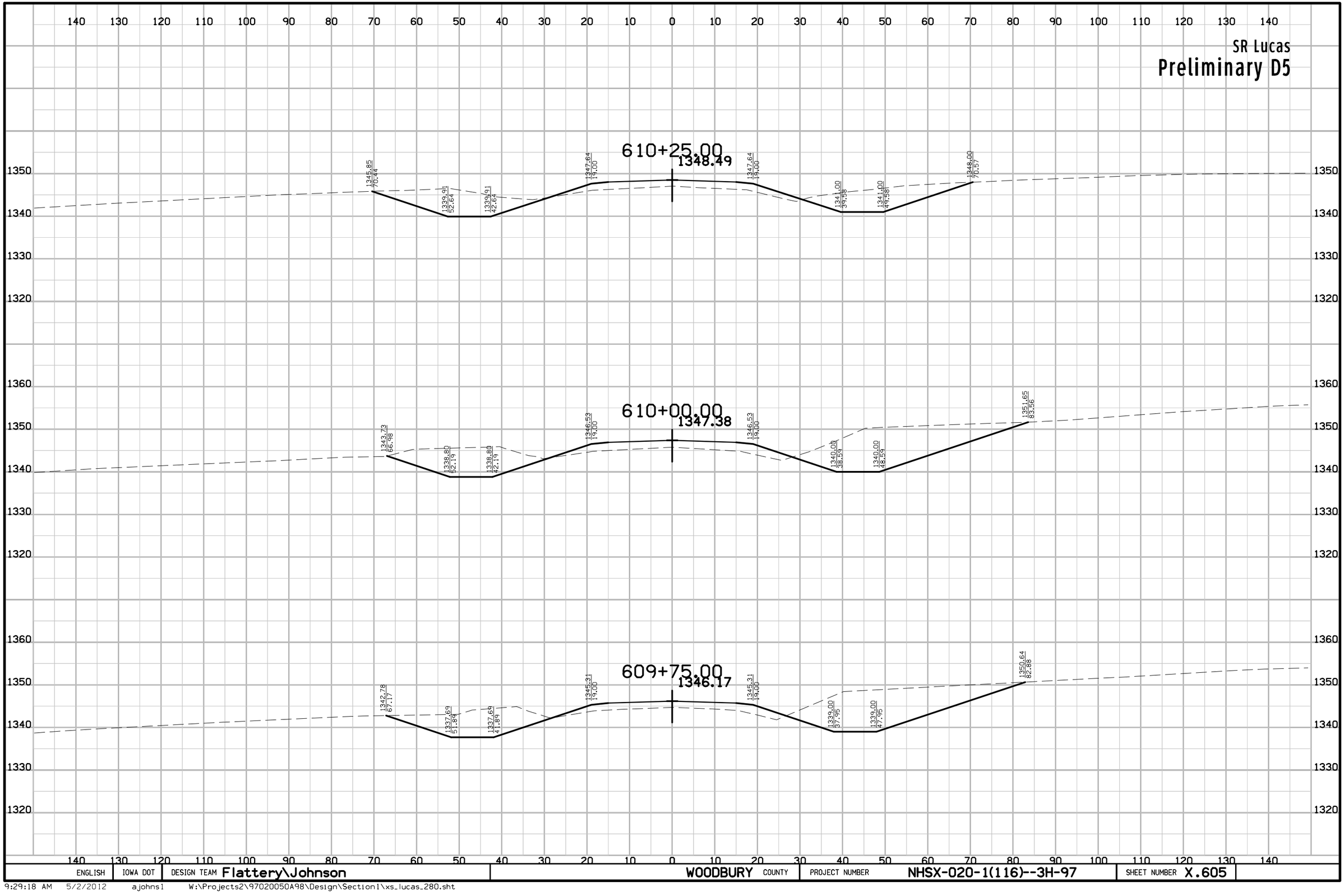
SR Lucas

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.605

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SR Lucas

Preliminary D5

611+50.00
1352.15

611+25.00
1351.96

611+00.00
1351.21

610+75.00
1350.41

1344.00
53.58

1349.58
19.82

1349.60
19.12

1344.00
55.91

610+50.00
1349.50

1344.08
69.48

1341.02
60.30

1341.03
50.30

1348.65
19.00

1348.65
19.00

1342.00
46.76

1342.00
58.77

1345.22
66.42

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.606

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SR Lucas

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1360
1350
1340
1330

612+25.00
1352.14

612+00.00
1352.14

611+75.00
1352.15

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.607

9:29:18 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1370
1360
1350
1340

613+00.00
1351.22

612+75.00
1351.85

612+50.00
1352.14

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.608

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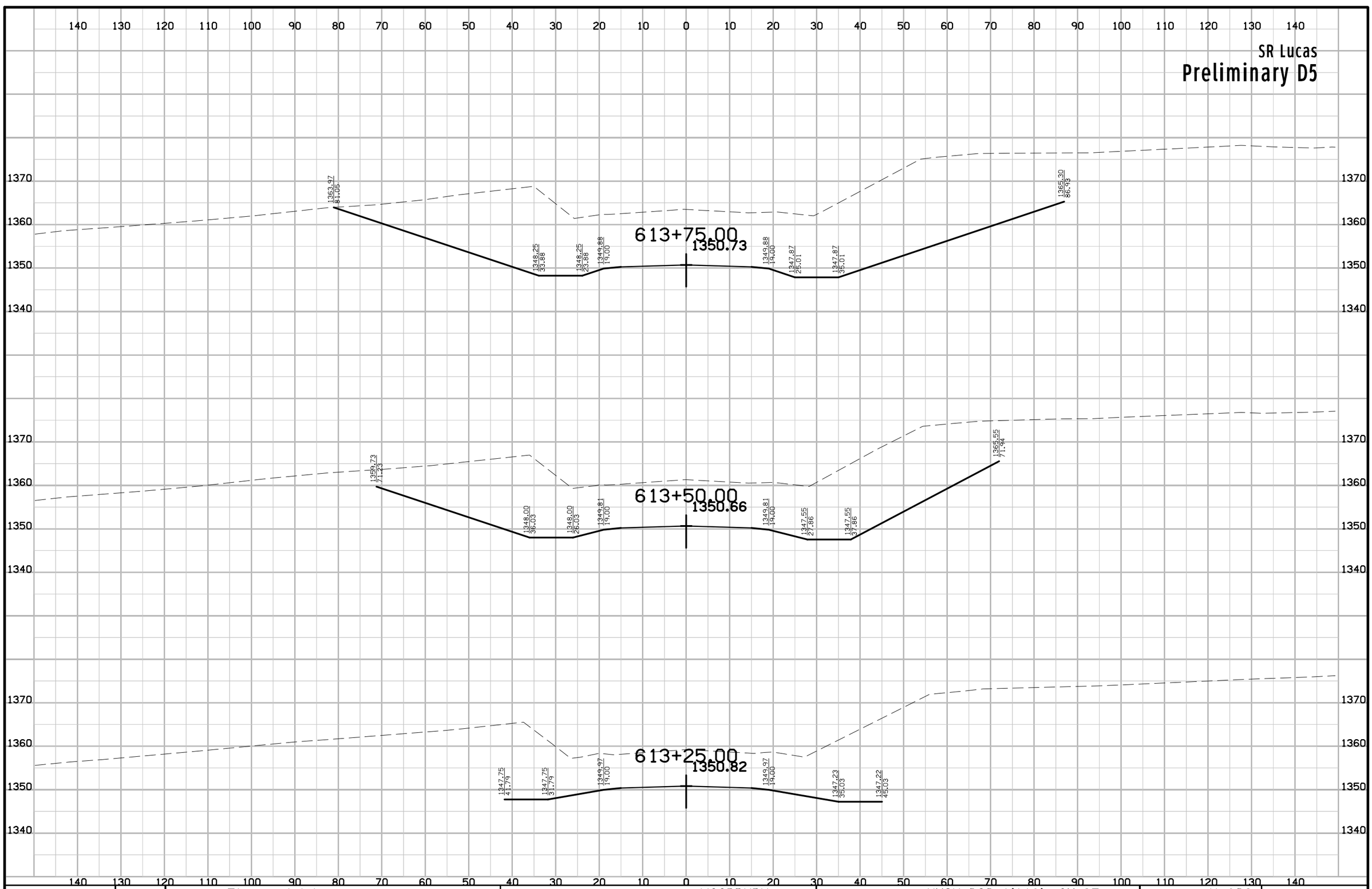
SR Lucas

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.609

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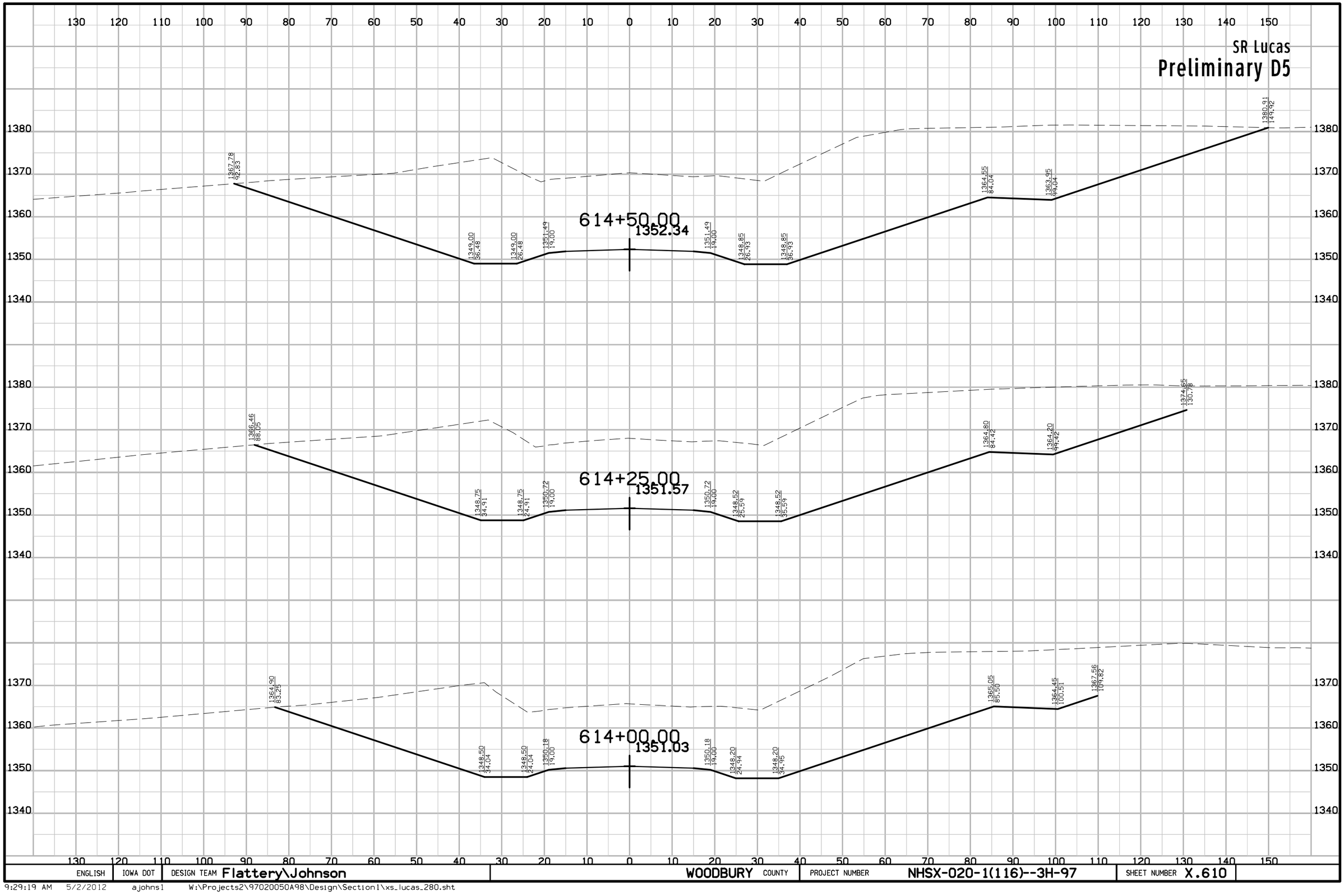
SR Lucas

Preliminary D5



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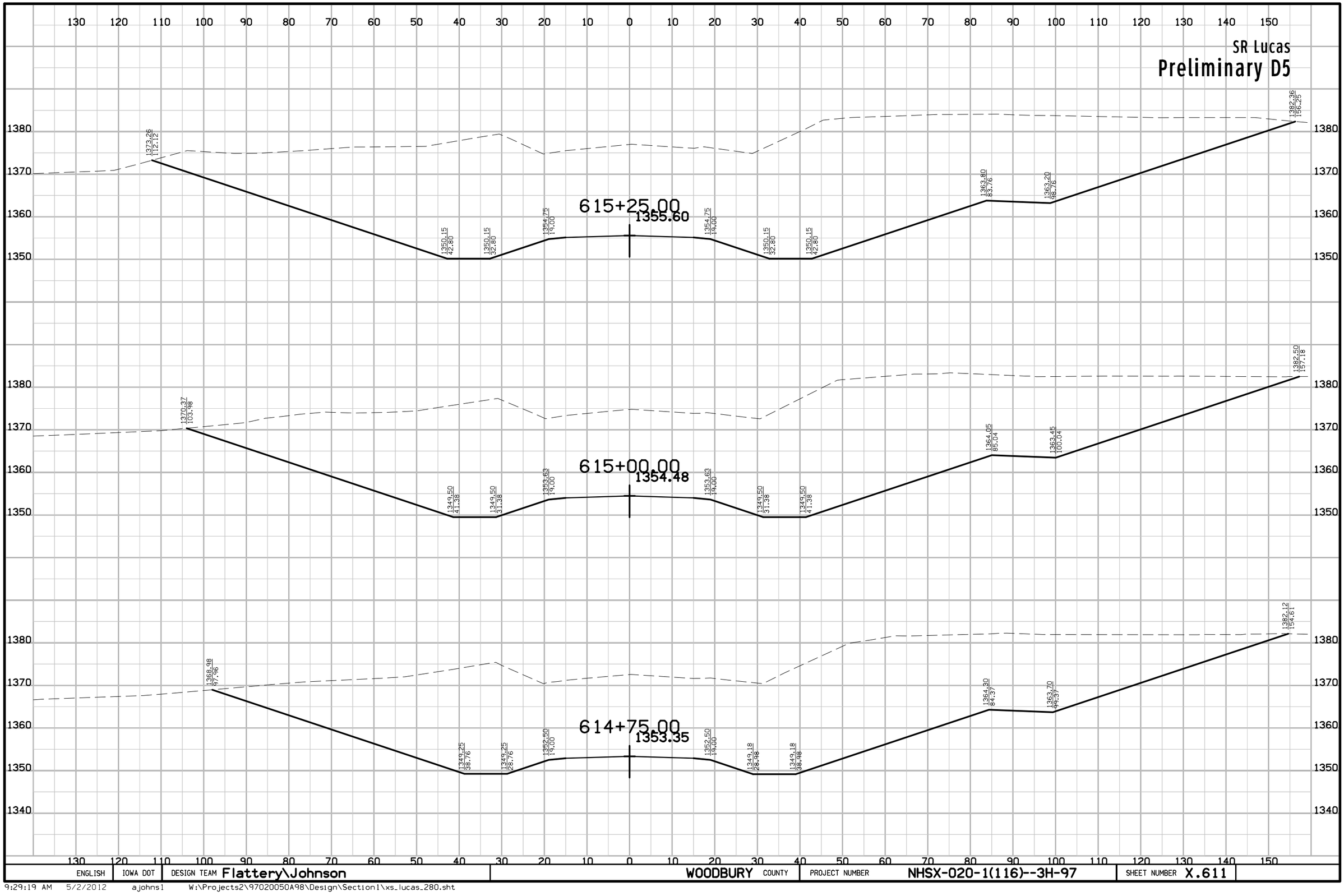
SR Lucas

Preliminary D5



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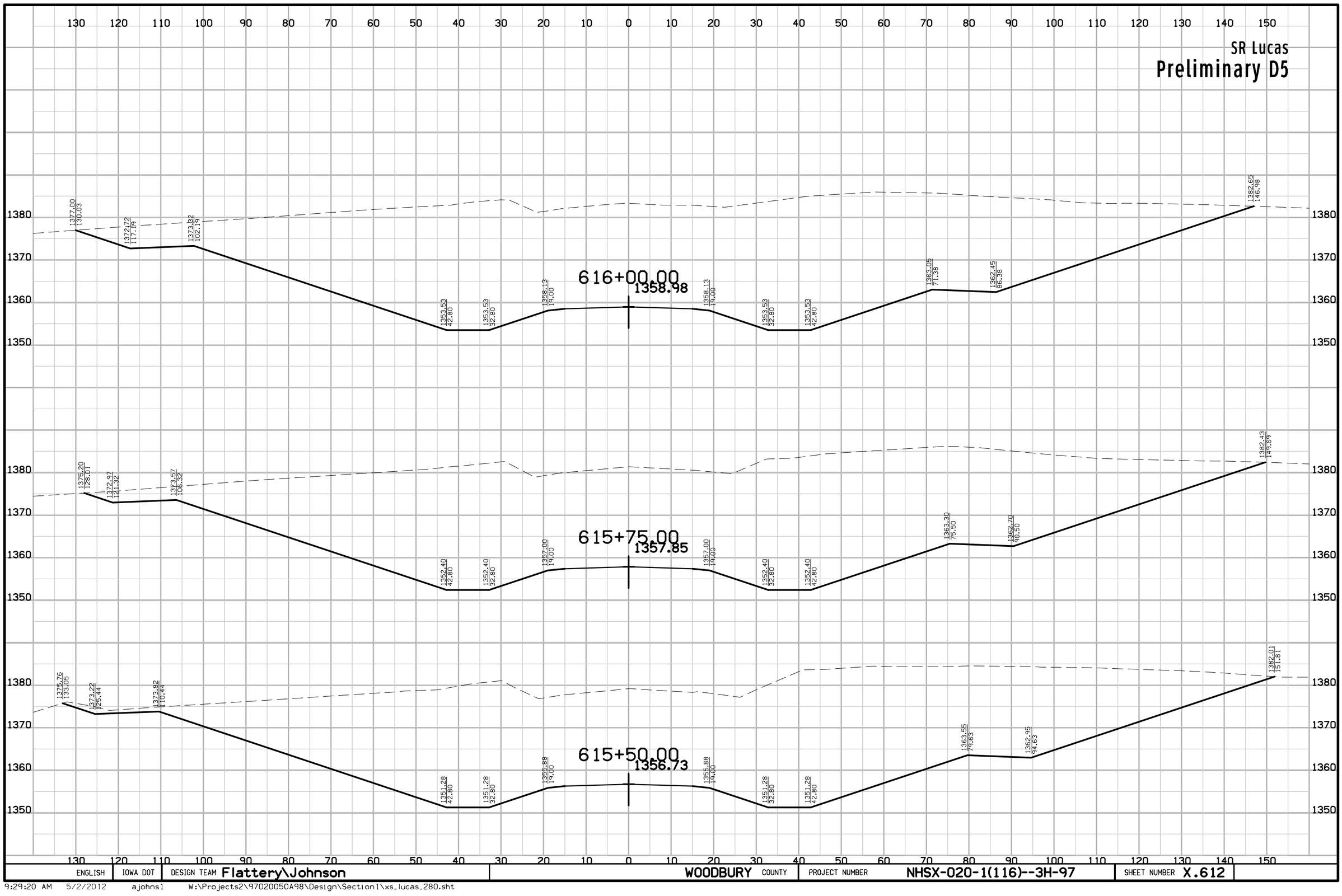
SR Lucas

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.612

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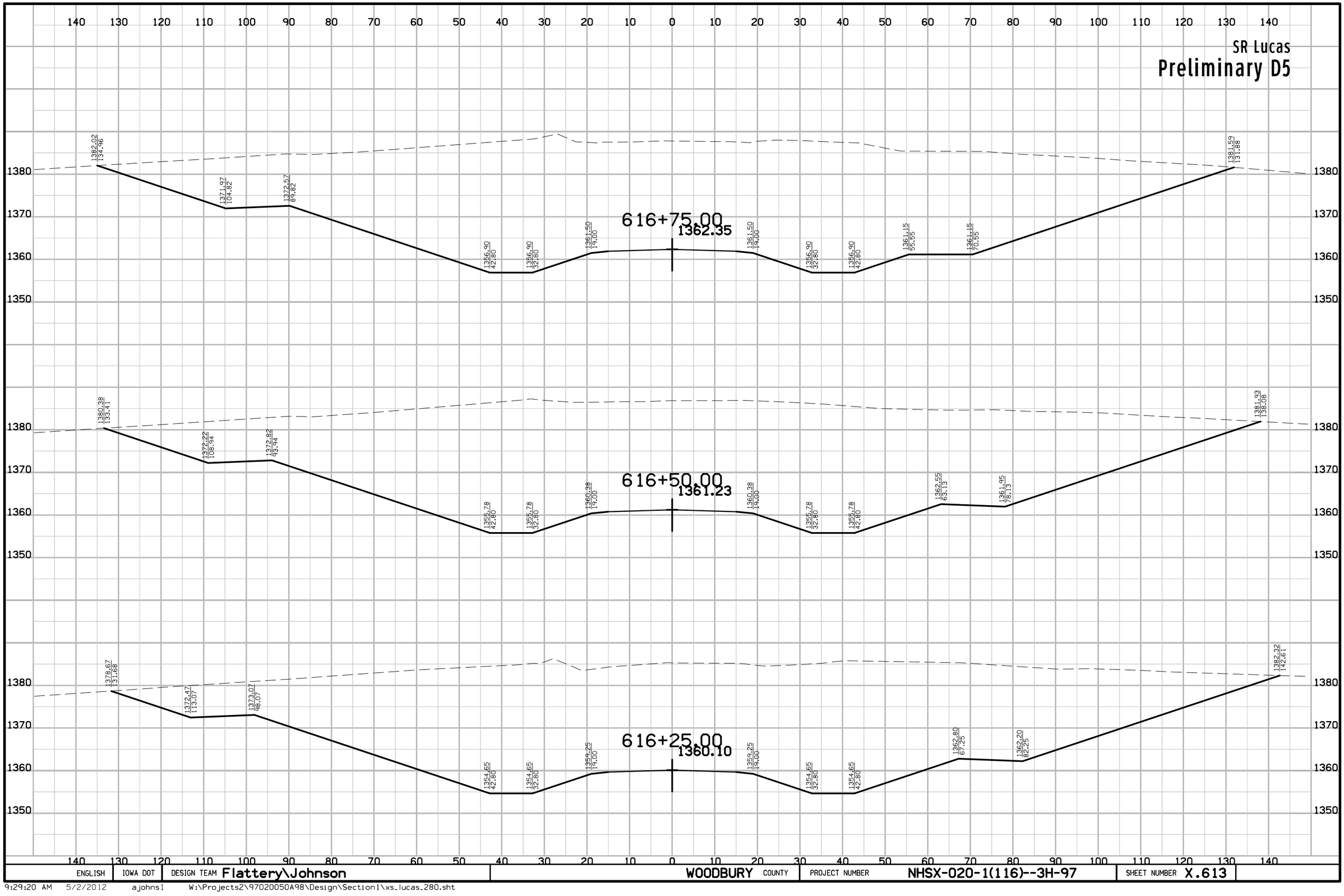
SR Lucas

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.613

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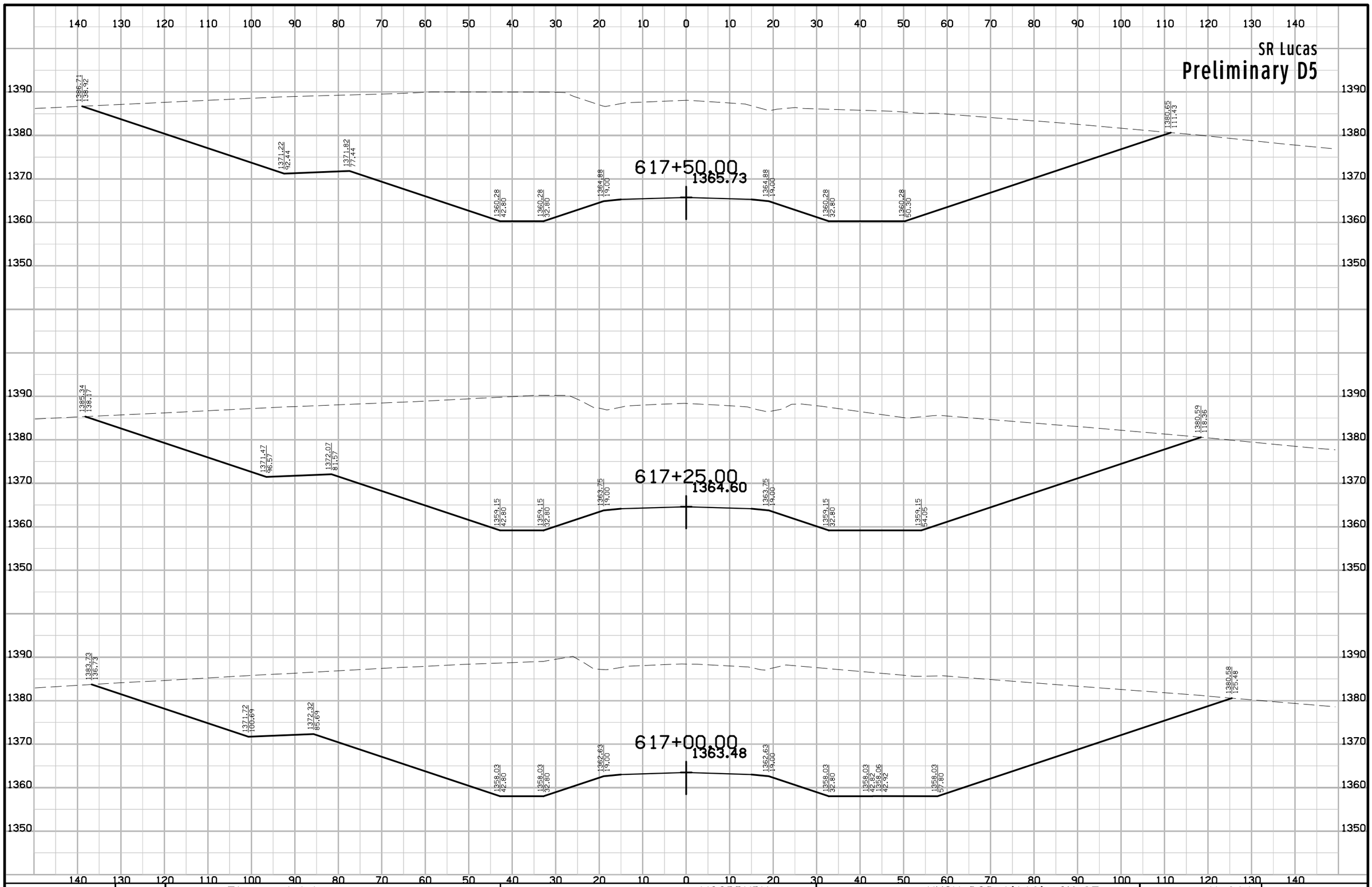
SR Lucas

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.614

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SR Lucas

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1390
1380
1370
1360
1350
1340

1388.23
137.36

1370.72
84.84

1371.32
69.84

1362.31
42.80

1362.31
32.80

1366.91
19.00

618+00.00
1367.76

1366.91
19.00

1362.31
32.80

1362.31
42.80

1379.11
93.21

1387.94
189.40

1370.97
88.48

1371.57
73.48

1361.35
42.80

1361.35
32.80

1365.95
19.00

617+75.00
1366.80

1365.95
19.00

1361.35
32.80

1361.35
46.55

1380.53
164.09

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.615

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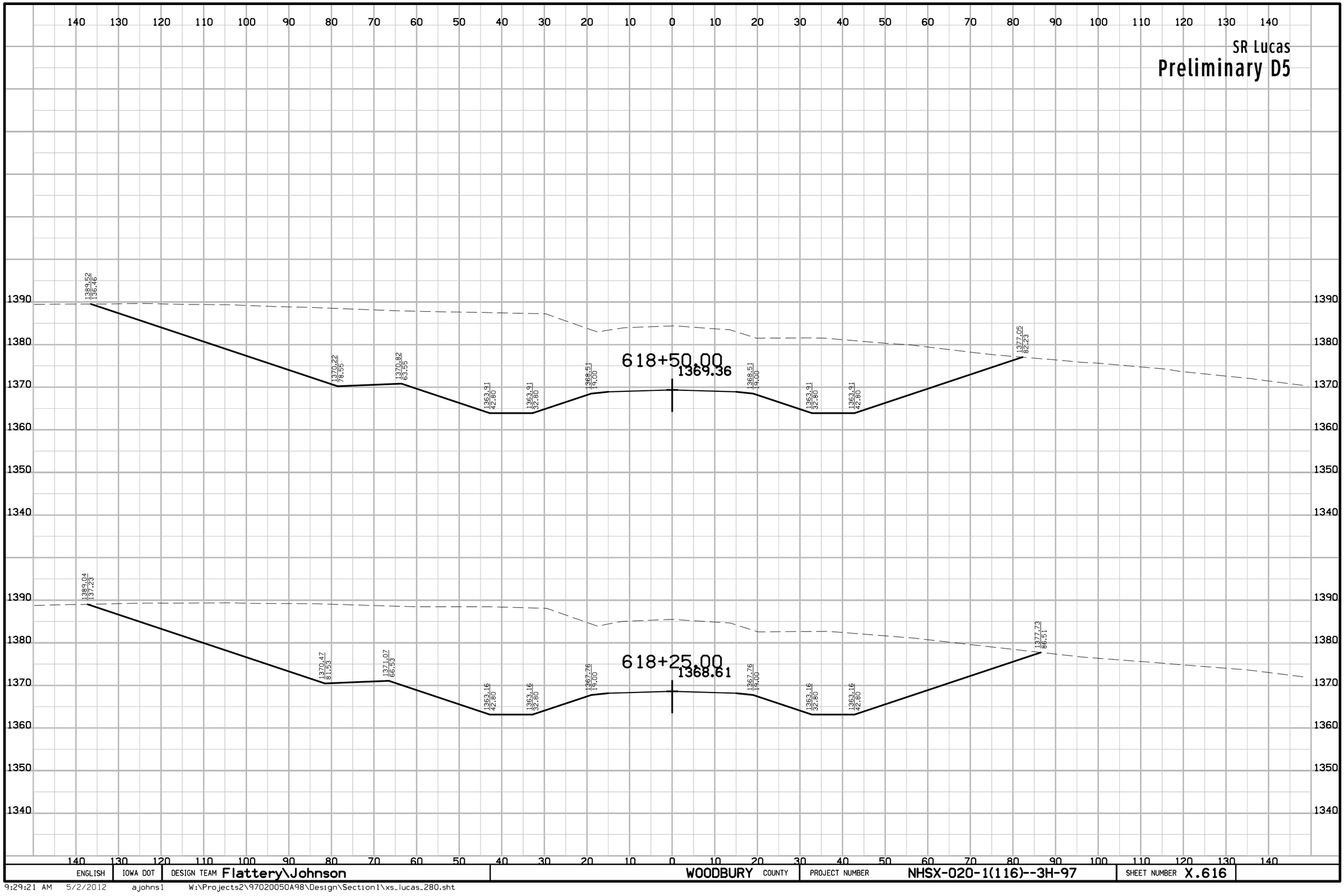
SR Lucas

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.616

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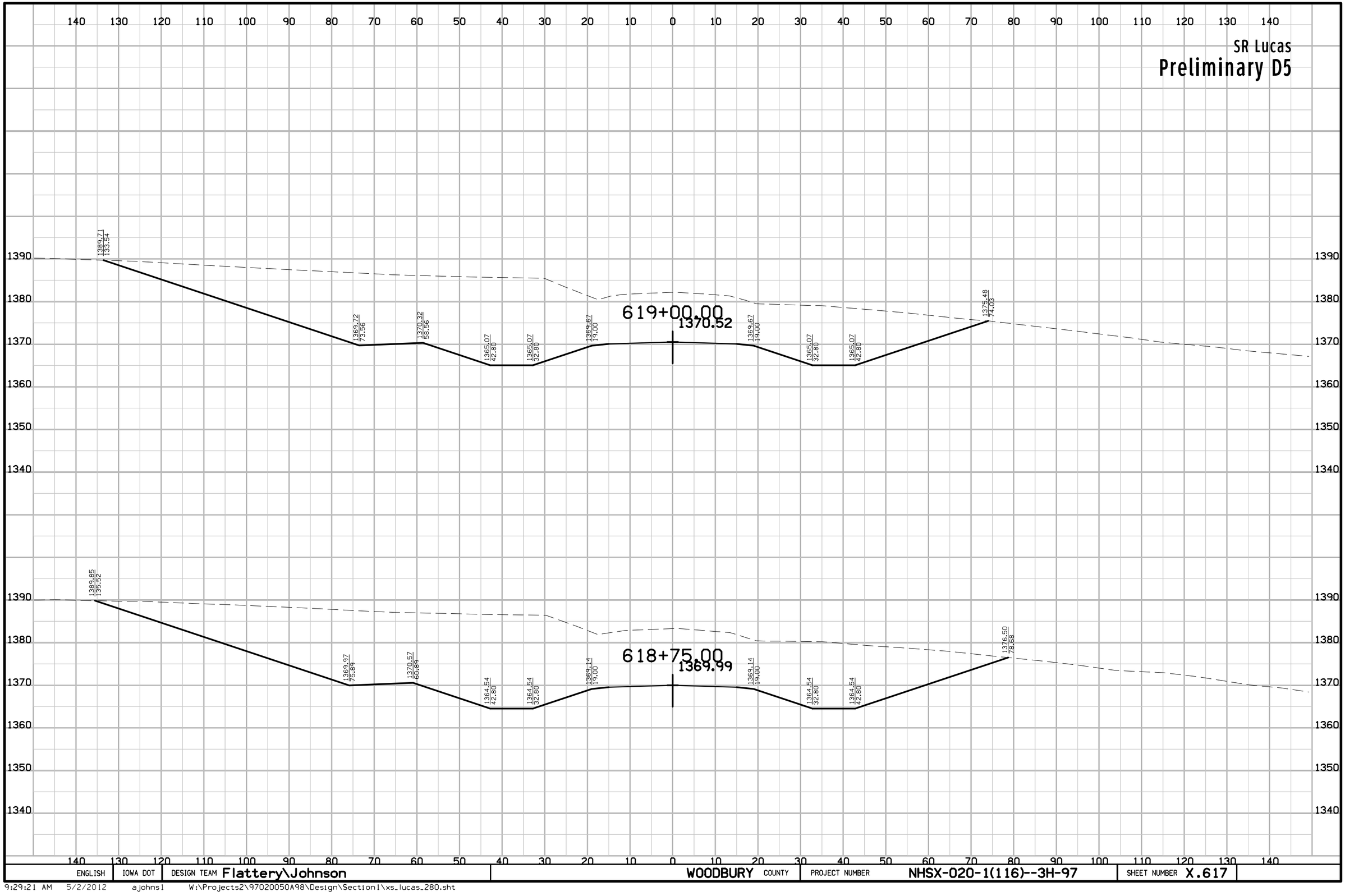
SR Lucas

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.617

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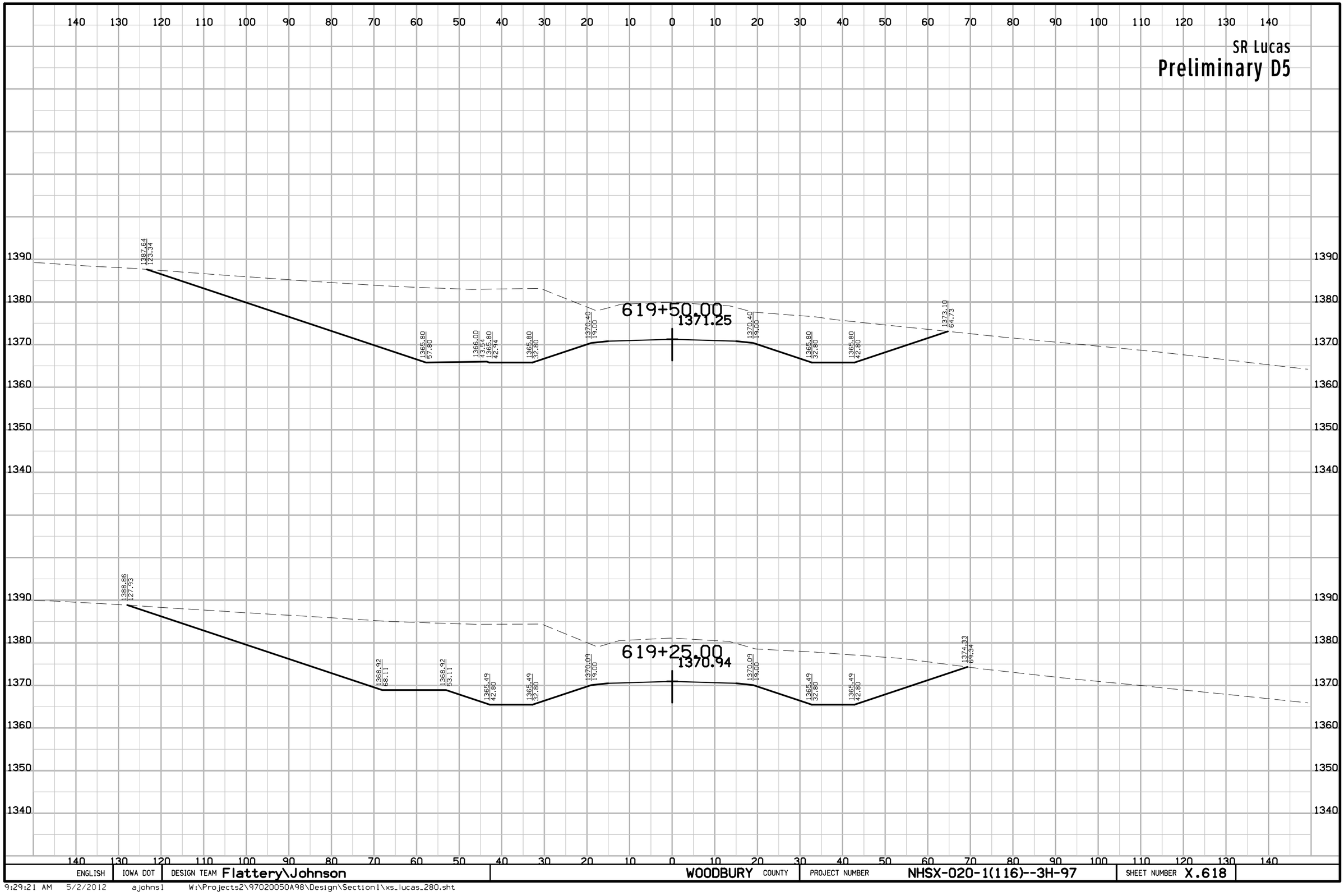
SR Lucas

Preliminary D5



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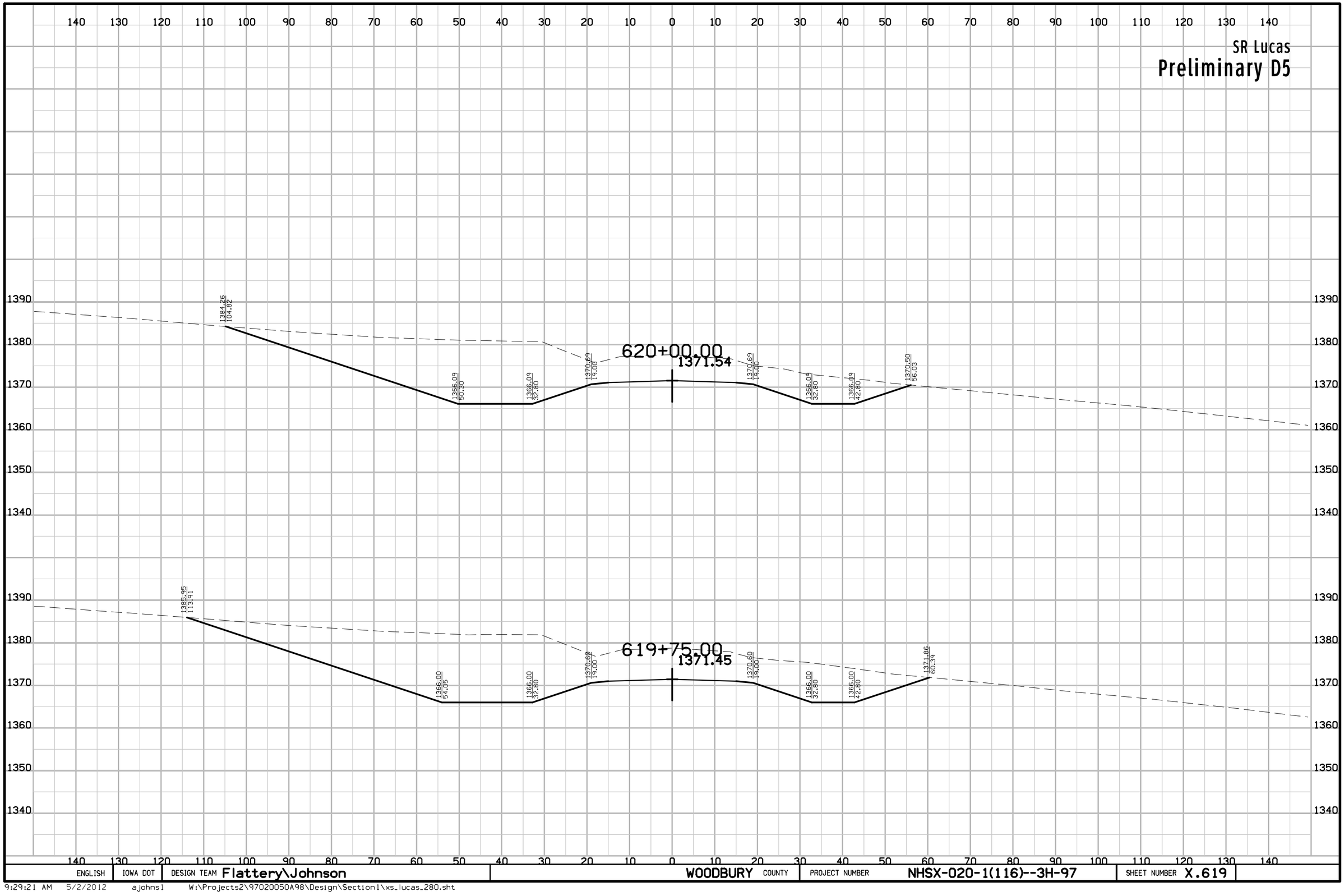
SR Lucas

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.619

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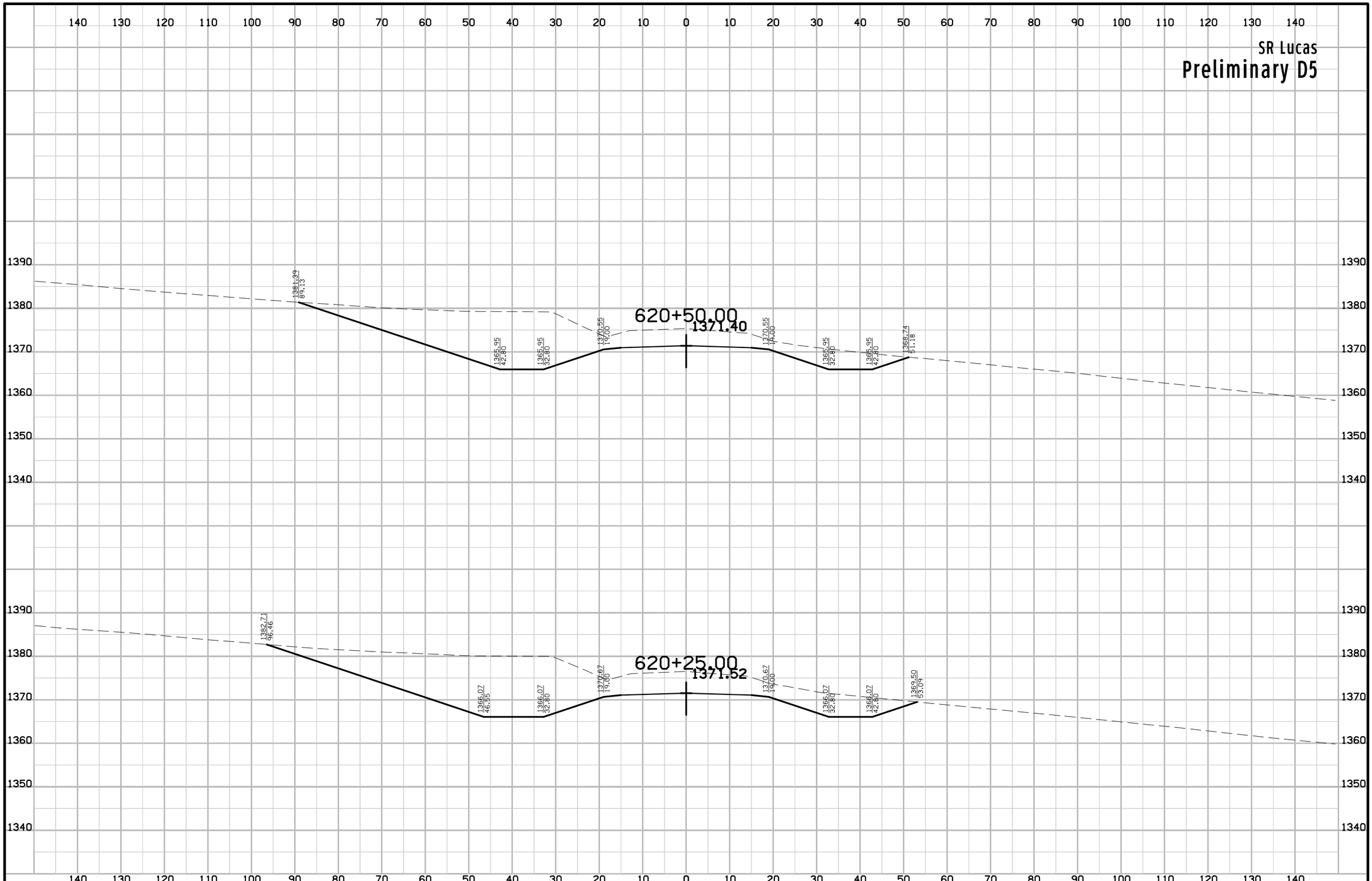
SR Lucas

Preliminary D5



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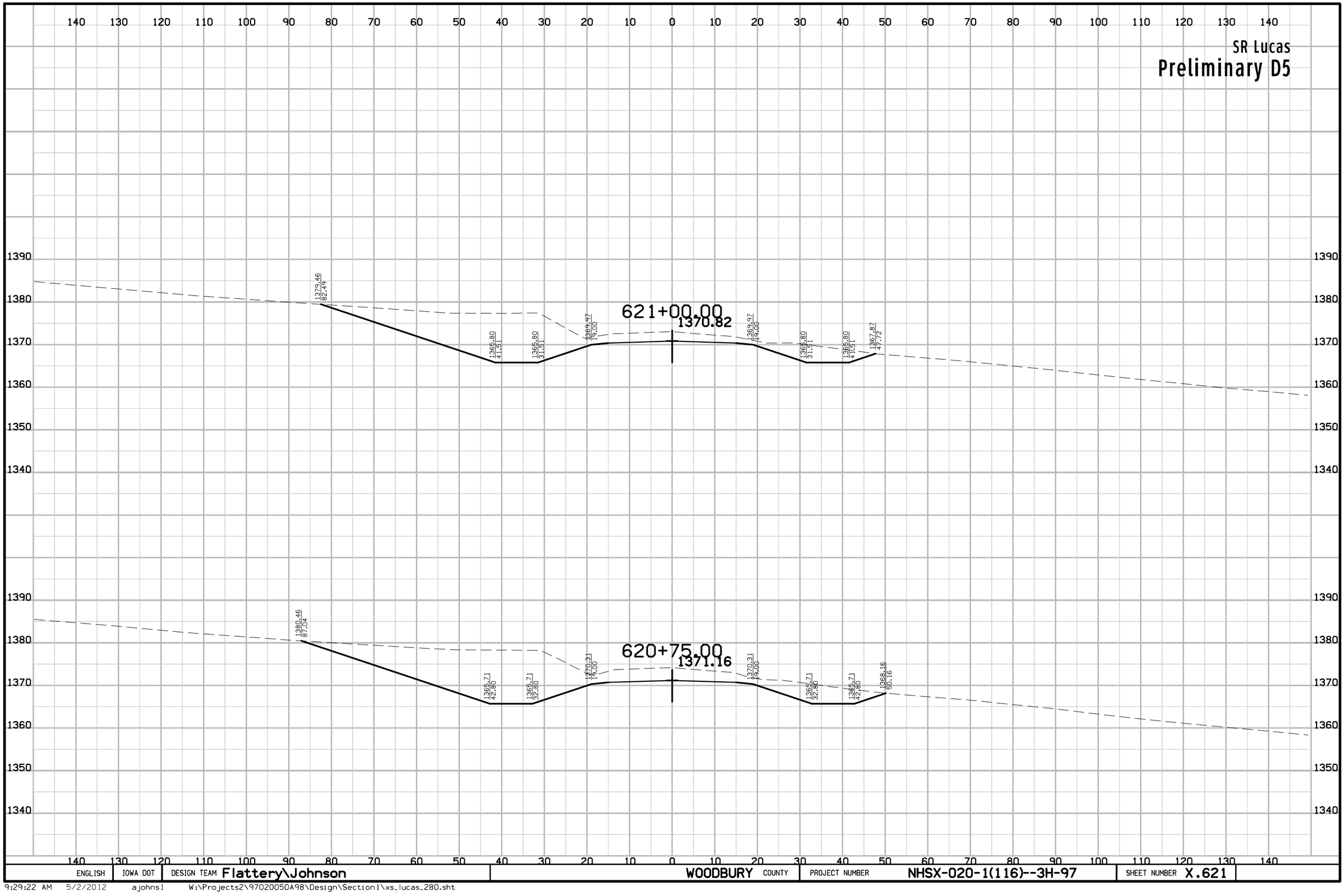
SR Lucas

Preliminary D5



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SR Lucas

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1390
1380
1370
1360
1350
1340

1377.36
76.76

1365.20
40.27

1365.20
30.27

1368.96
19.00

621+50.00
1369.81

1368.96
19.00

1364.90
31.17

1364.90
41.17

1366.59
46.25

1378.37
79.66

1365.50
41.05

1365.50
31.05

1369.52
19.00

621+25.00
1370.37

1369.52
19.00

1365.35
31.50

1365.35
41.50

1367.21
47.09

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.622

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SR Lucas

Preliminary D5

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1390 1380 1370 1360 1350 1340

1373.92
65.69
1364.60
37.73
1364.60
27.73
1367.51
19.00

622+00.00
1368.36

1367.51
19.00
1364.00
29.53
1364.00
39.33
1364.85
42.08

1376.01
72.51
1364.90
39.16
1364.90
29.16
1368.29
19.00

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19.00
1364.45
30.51
1364.45
40.51
1365.73
44.36

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.623

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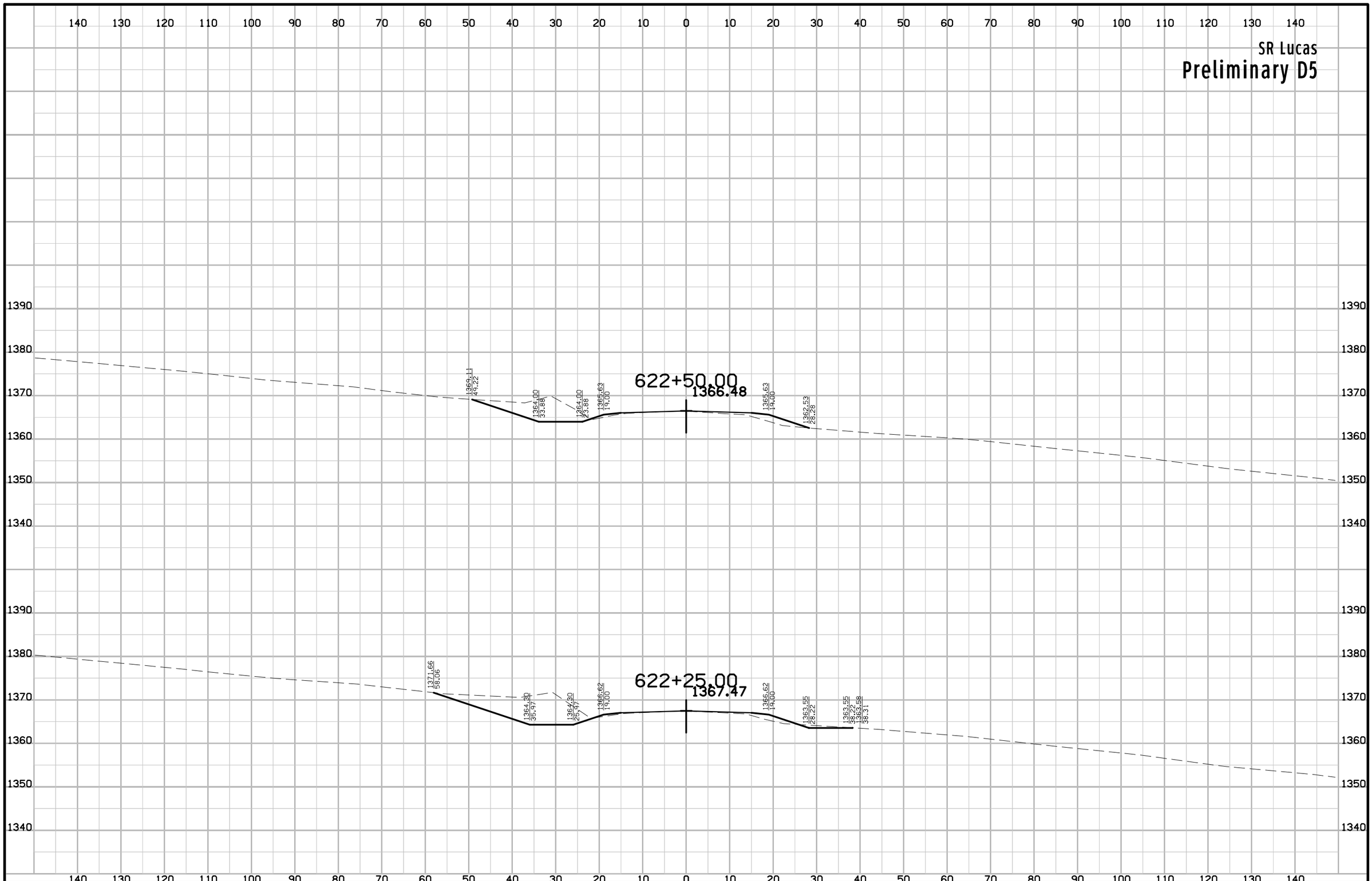
SR Lucas

Preliminary D5



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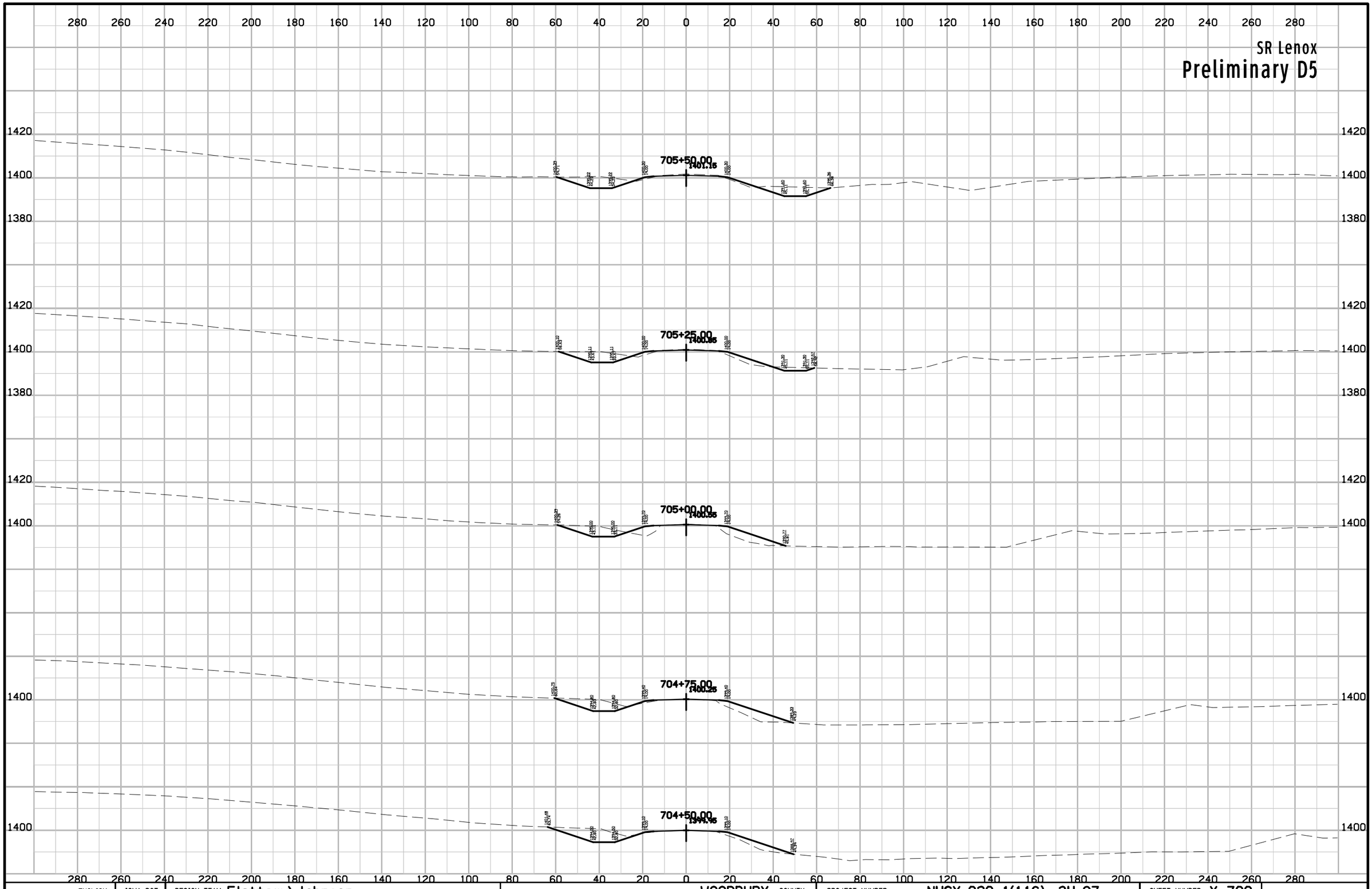
SR Lenox

Preliminary D5



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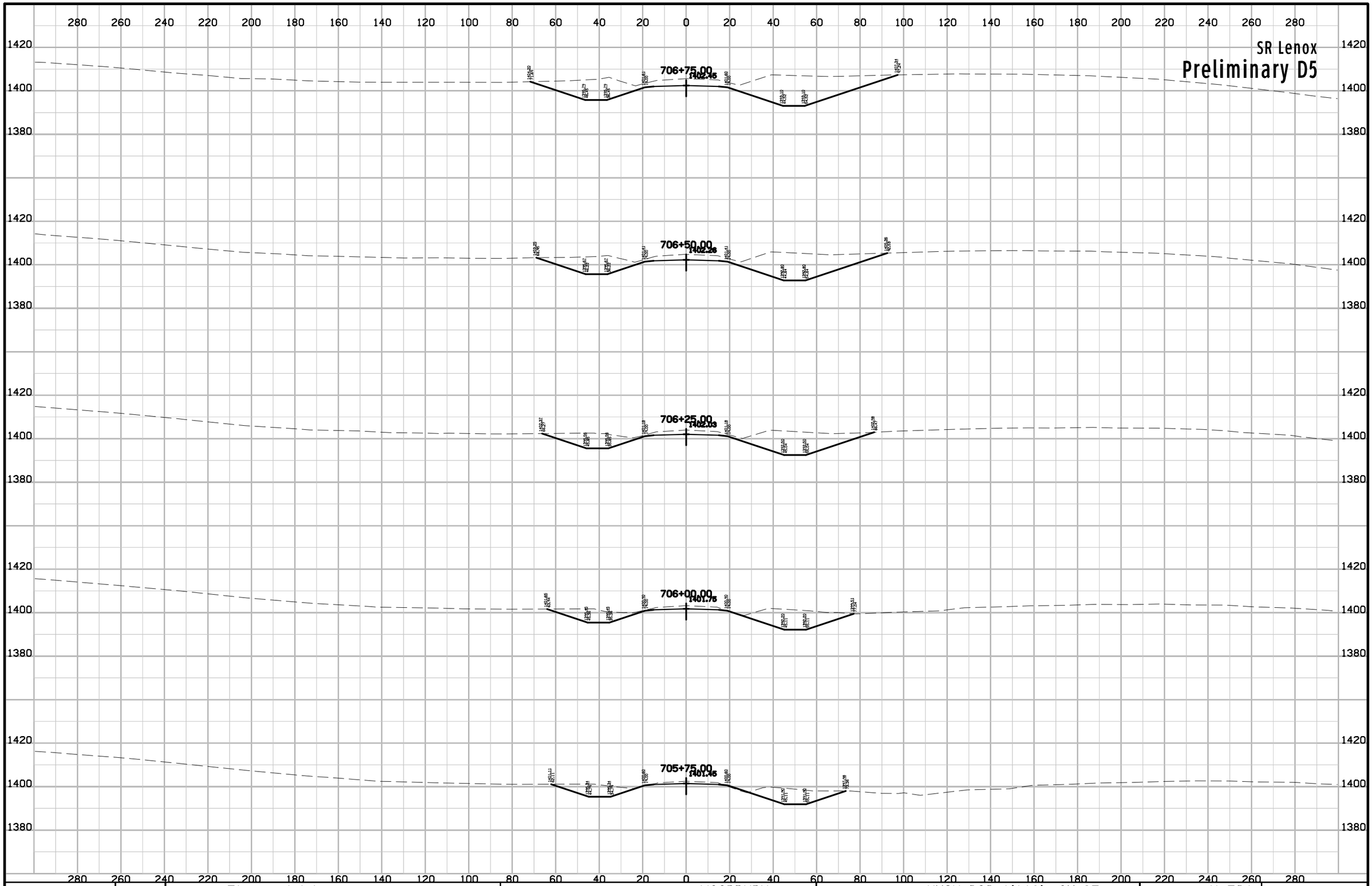
SR Lenox

Preliminary D5



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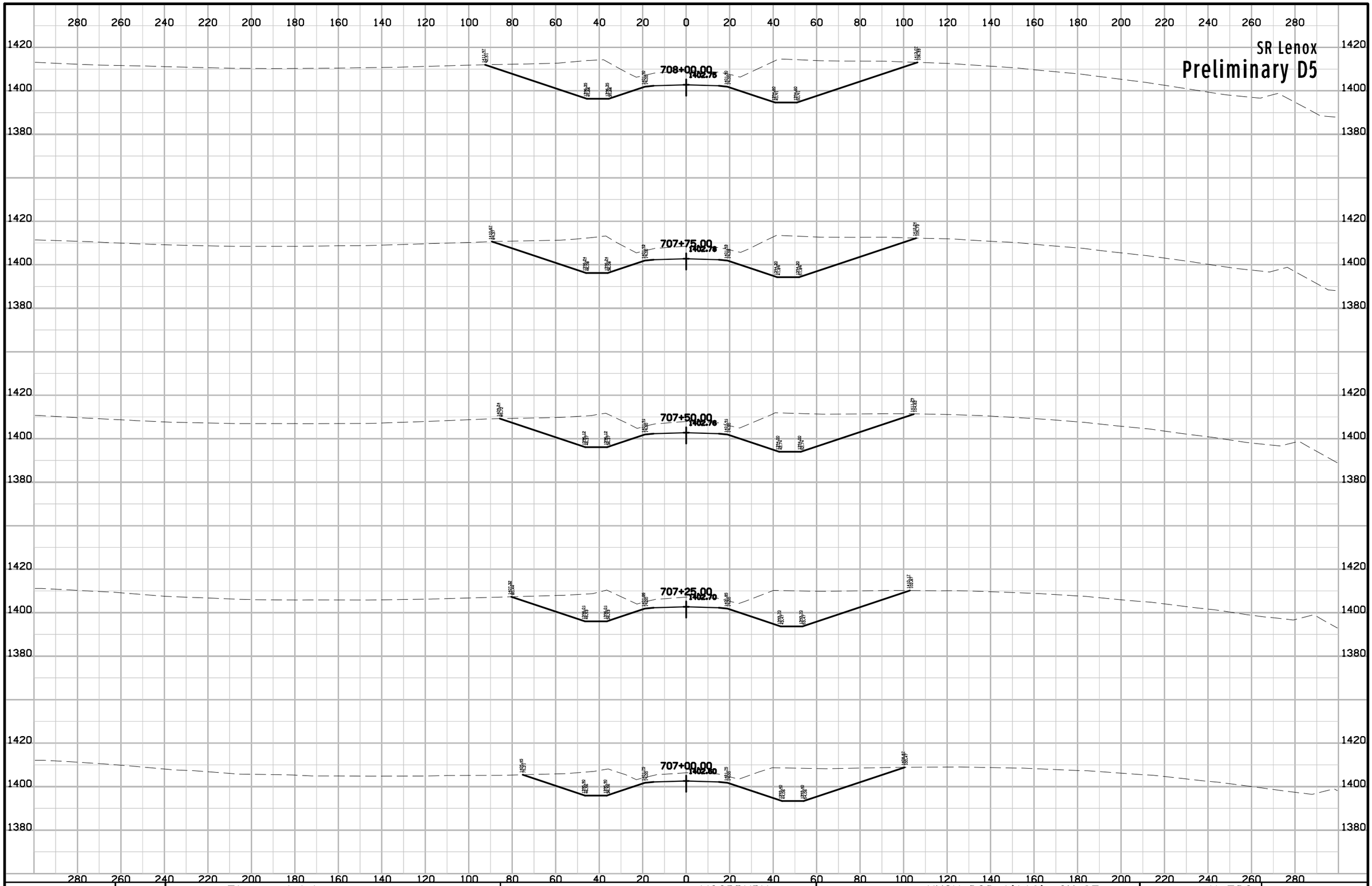
SR Lenox

Preliminary D5



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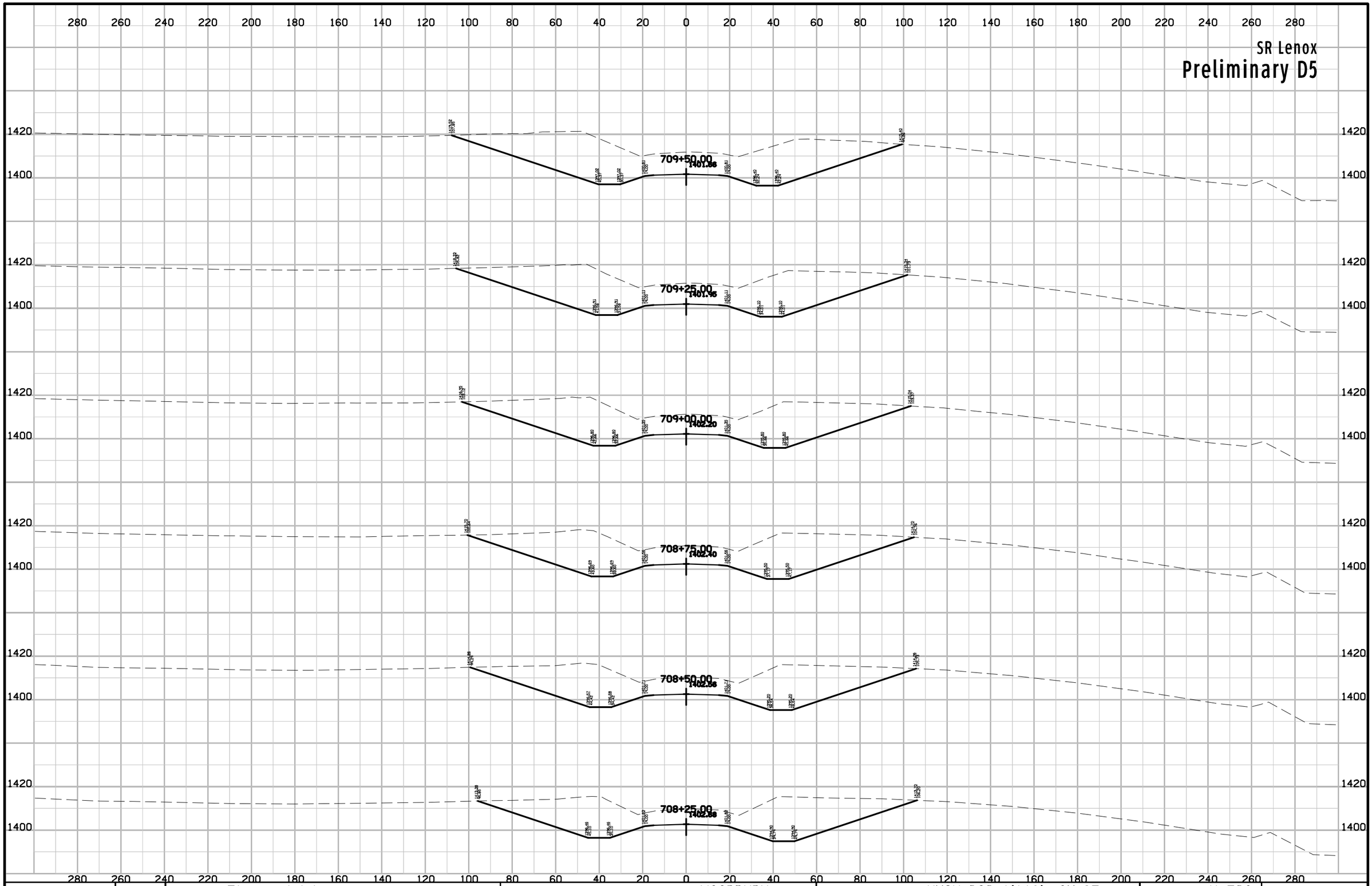
SR Lenox

Preliminary D5



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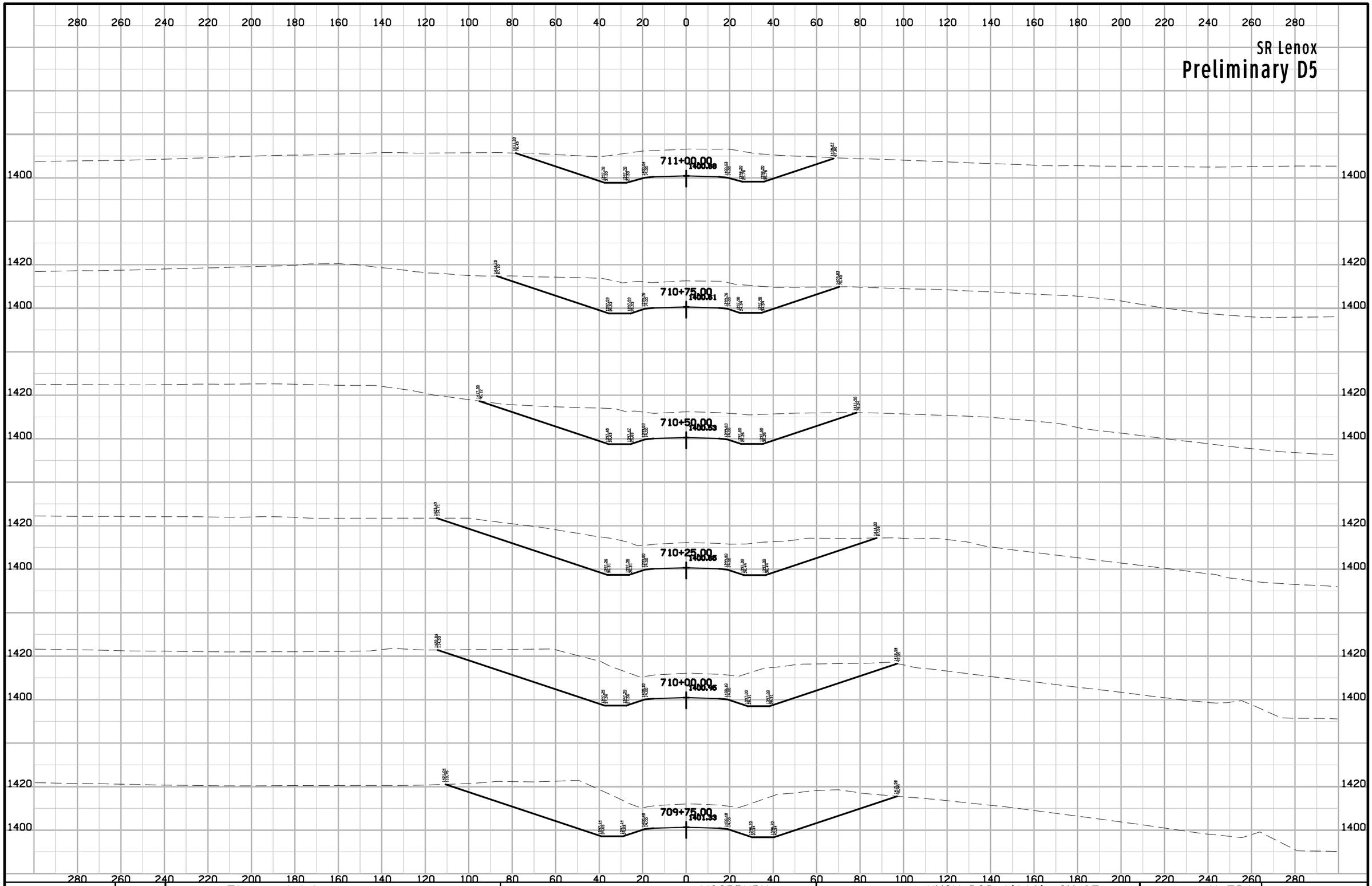
SR Lenox

Preliminary D5



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SR Lenox

Preliminary D5

713+00.00
1403.19

712+75.00
1403.19

712+50.00
1403.19

712+25.00
1403.19

712+00.00
1403.19

711+75.00
1402.76

711+50.00
1402.00

711+25.00
1401.36

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.705

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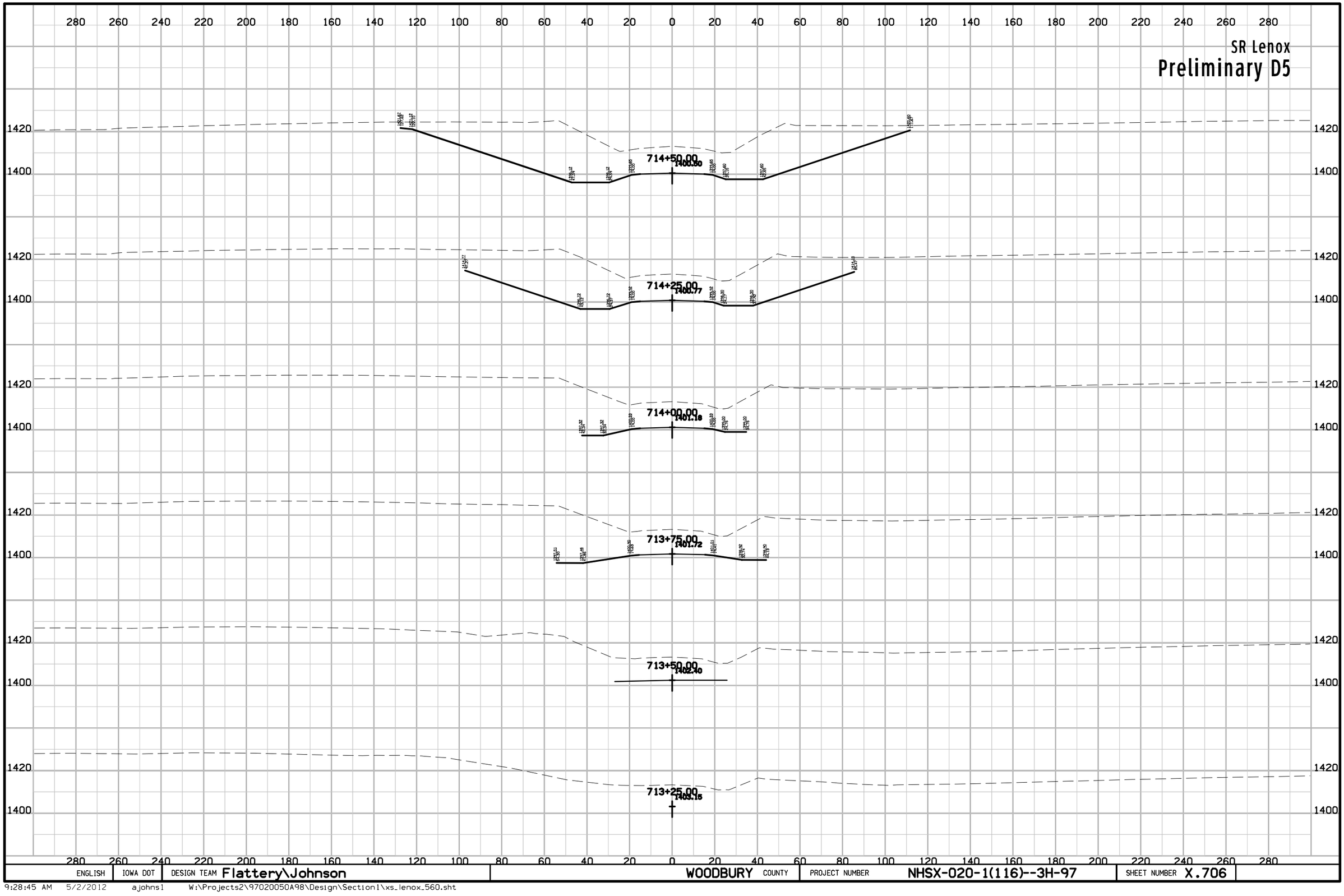
SR Lenox

Preliminary D5



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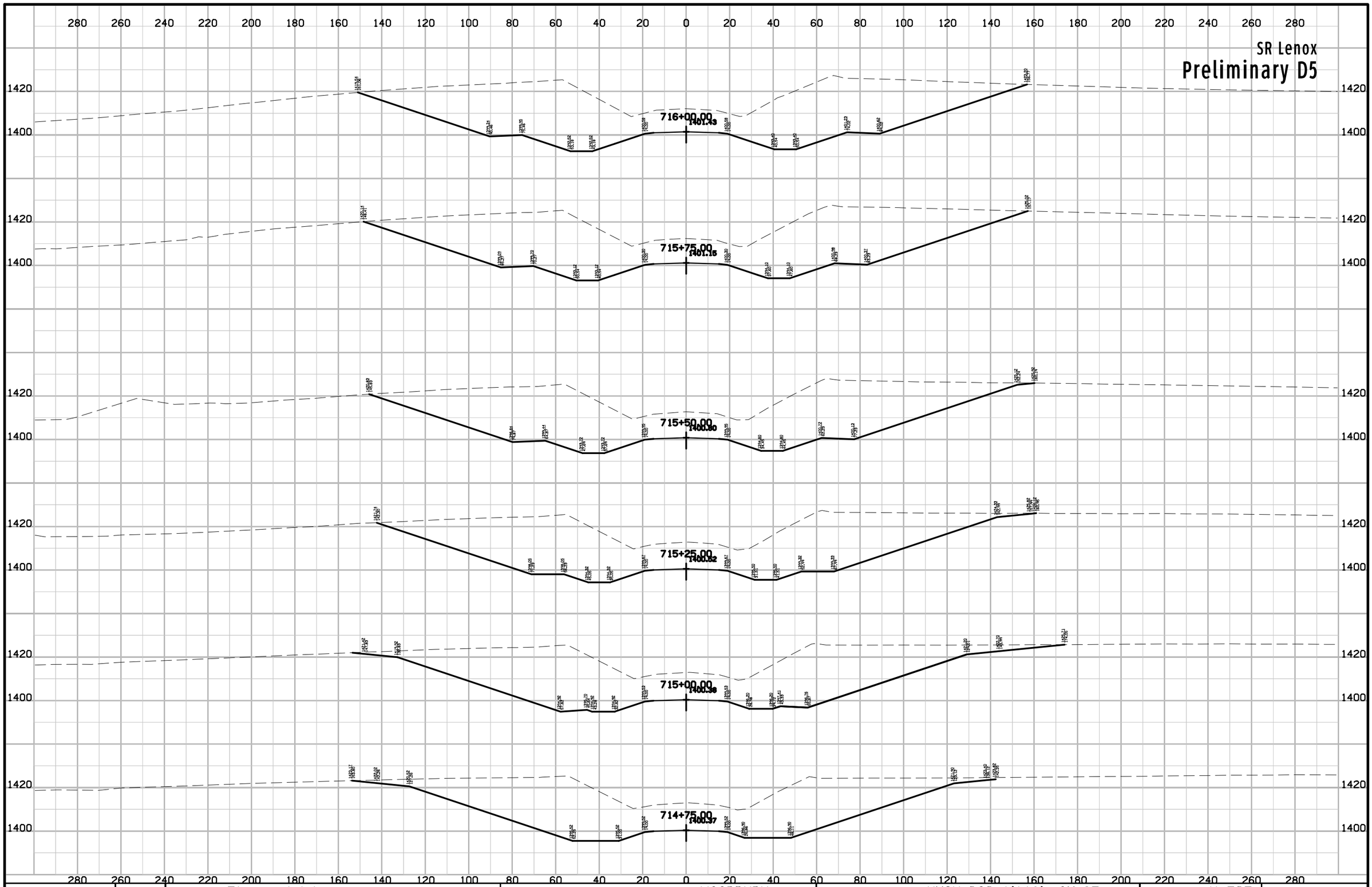
SR Lenox

Preliminary D5



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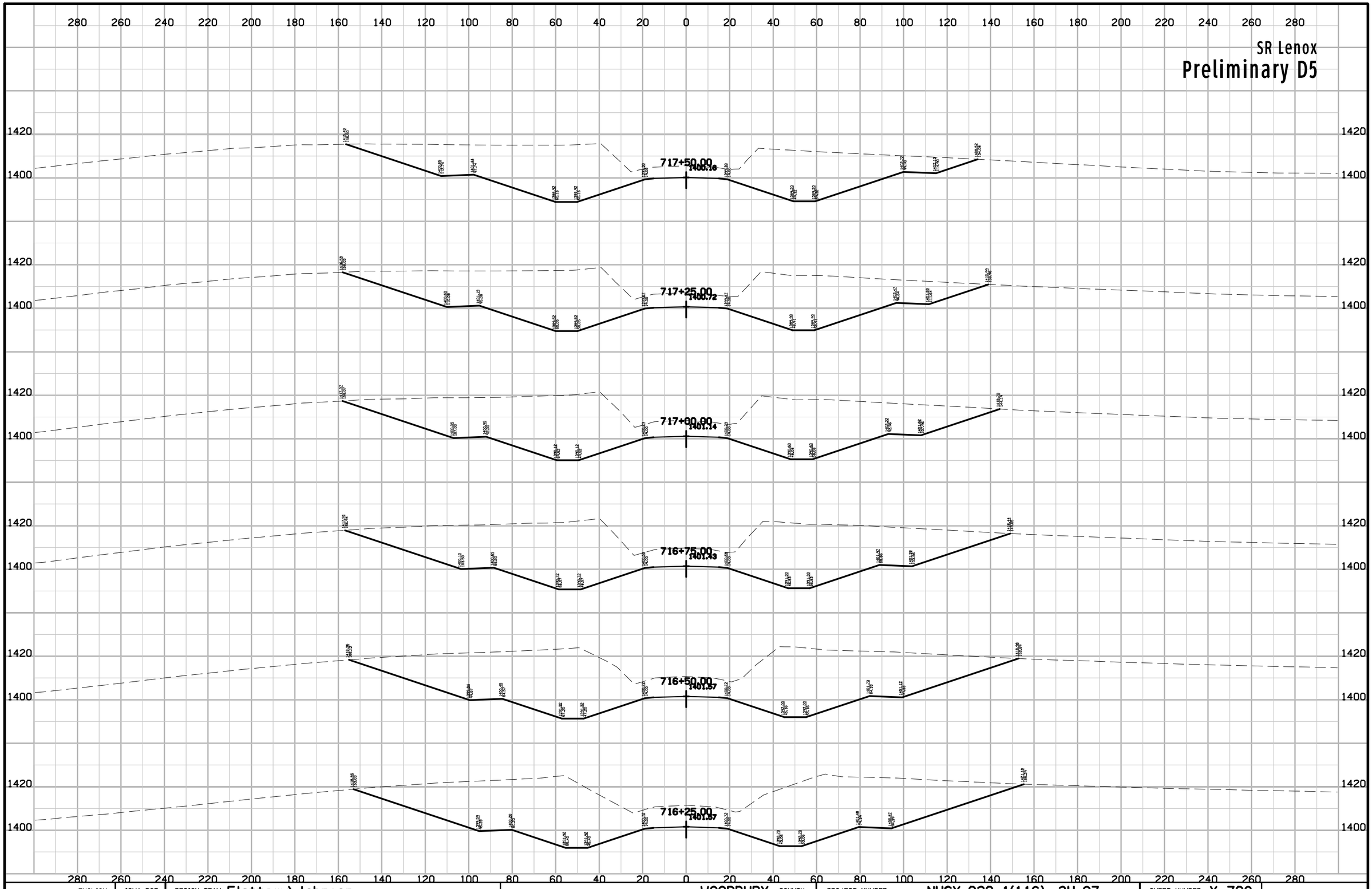
SR Lenox

Preliminary D5



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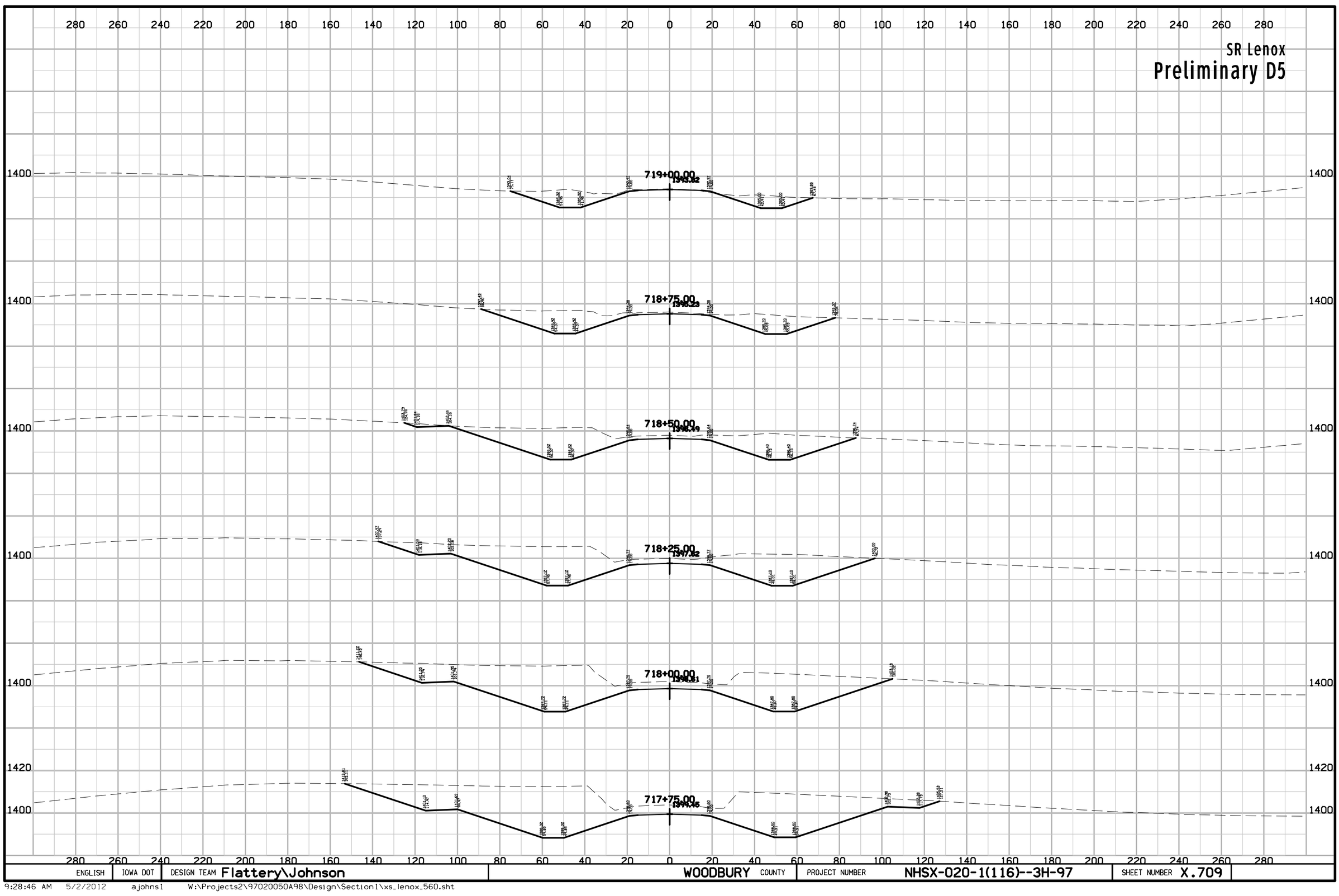
SR Lenox

Preliminary D5



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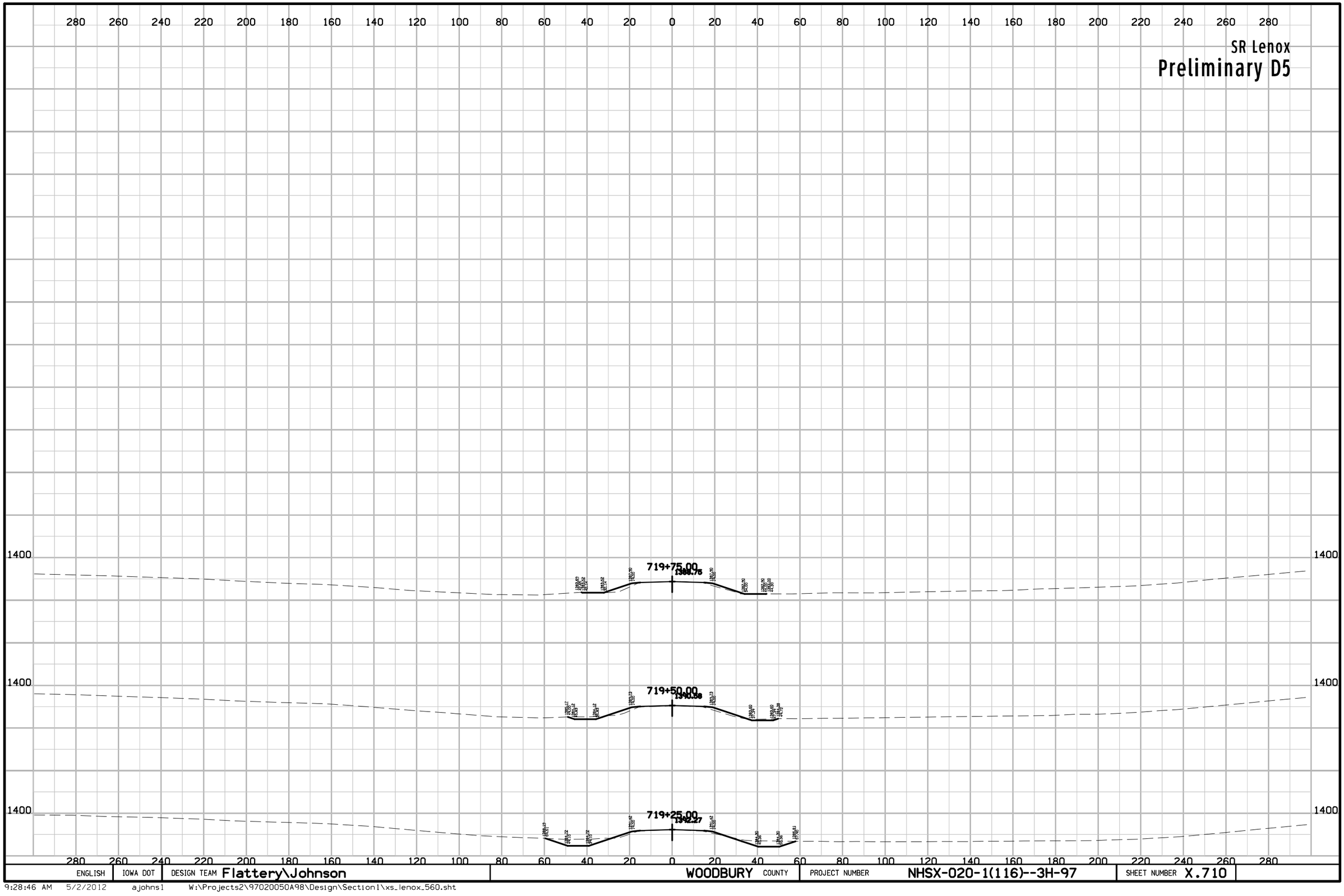
SR Lenox

Preliminary D5



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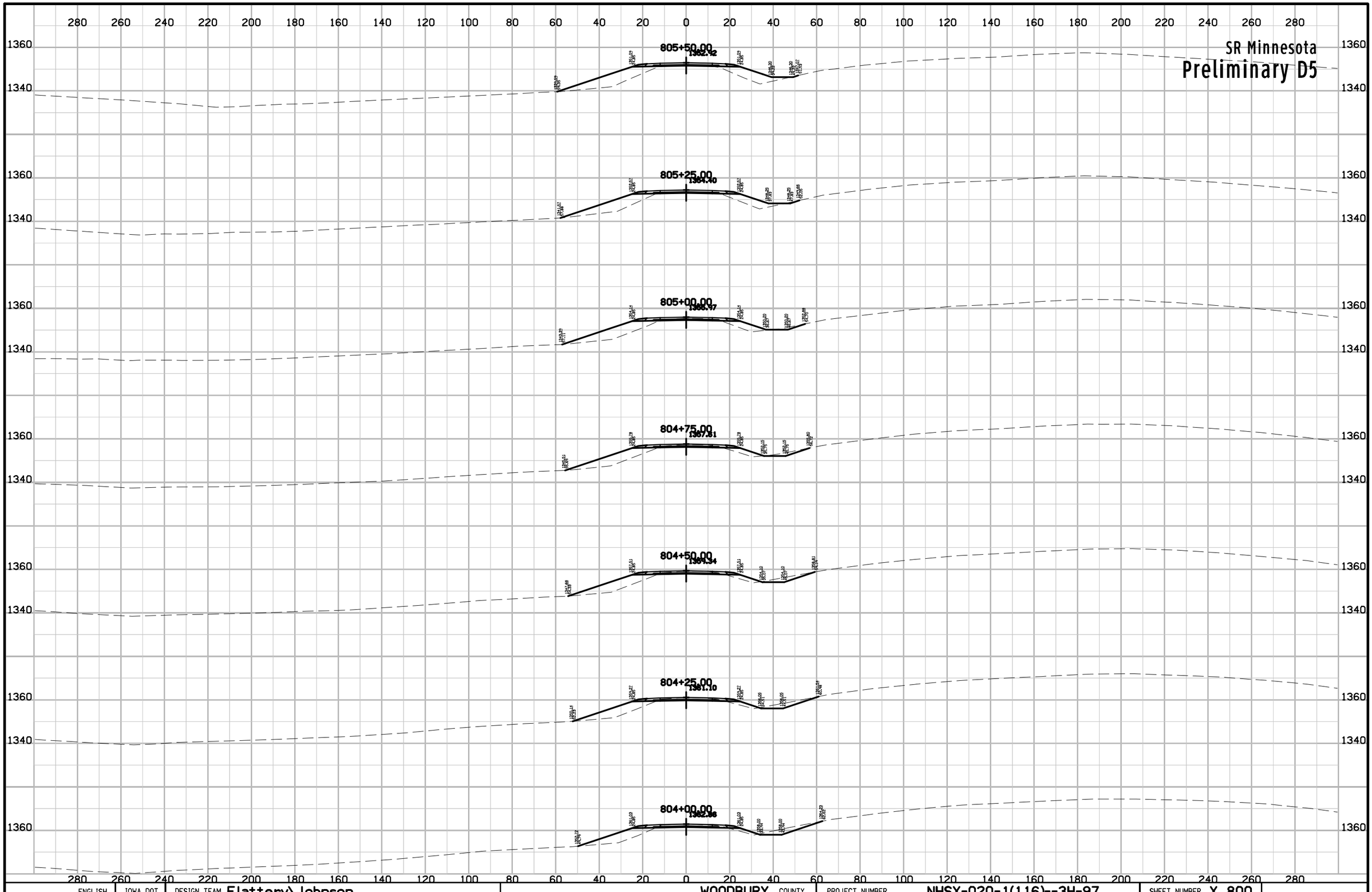
SR Minnesota

Preliminary D5



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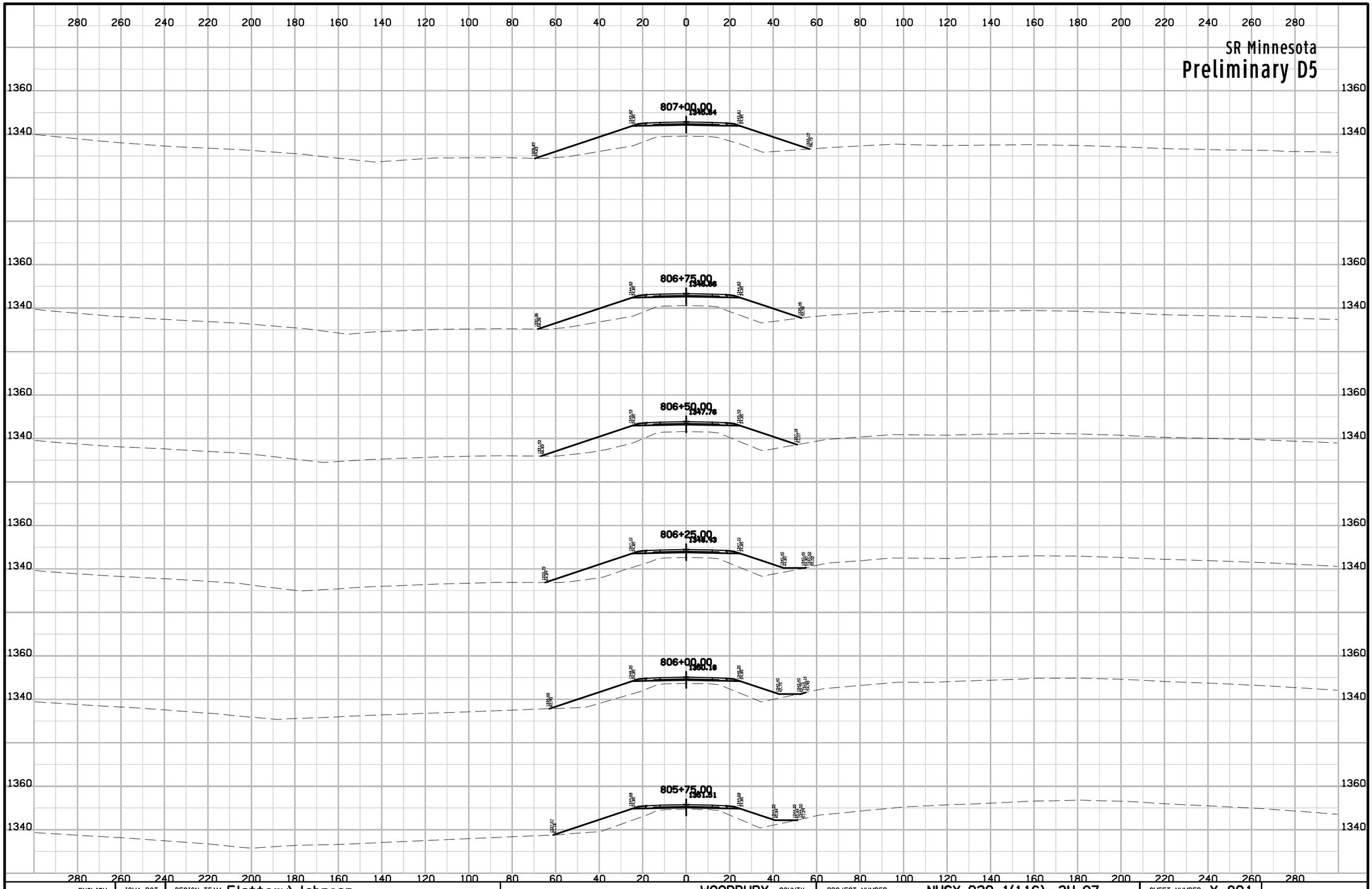
SR Minnesota

Preliminary D5



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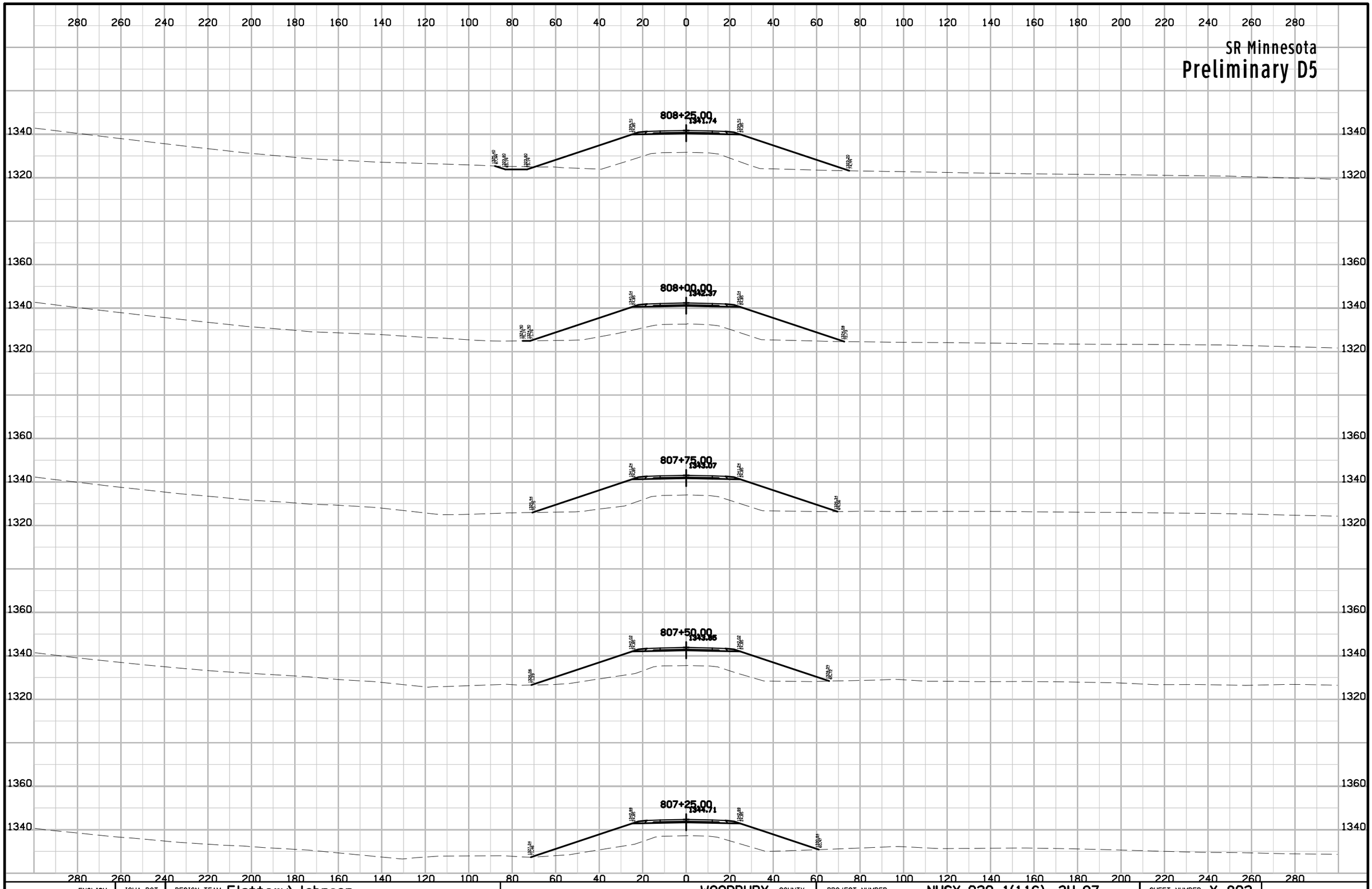
SR Minnesota

Preliminary D5



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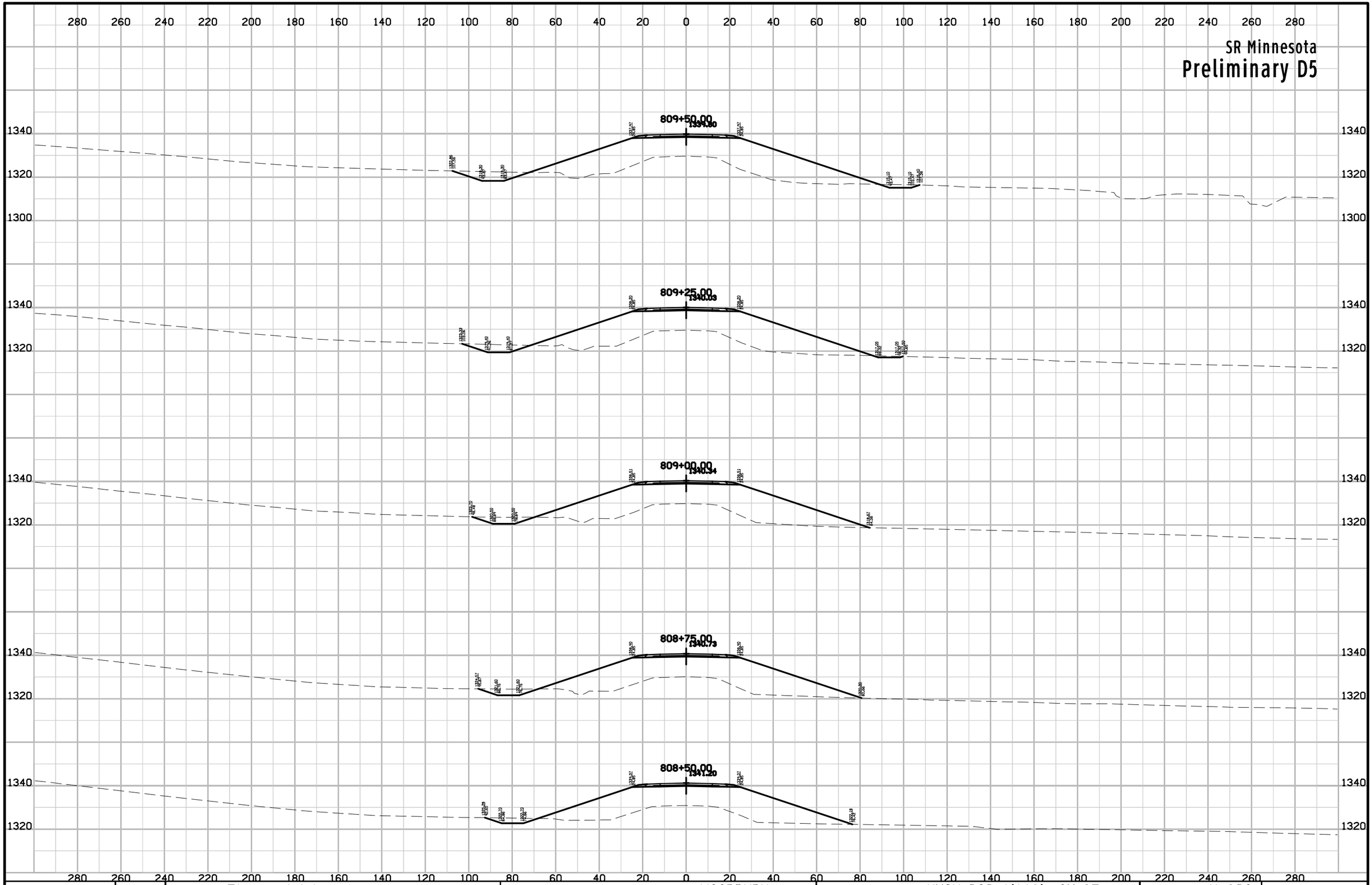
SR Minnesota

Preliminary D5



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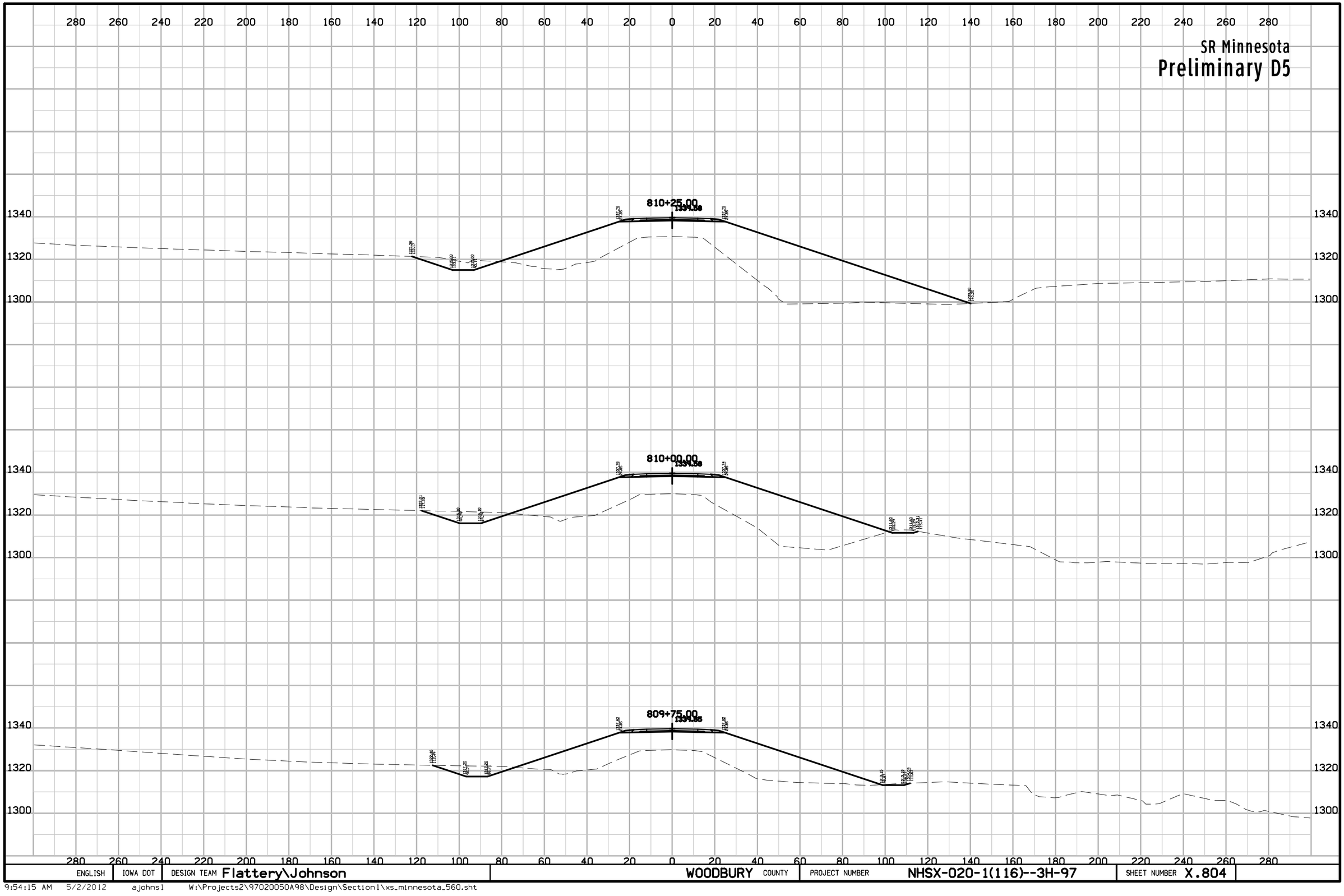
SR Minnesota

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.804

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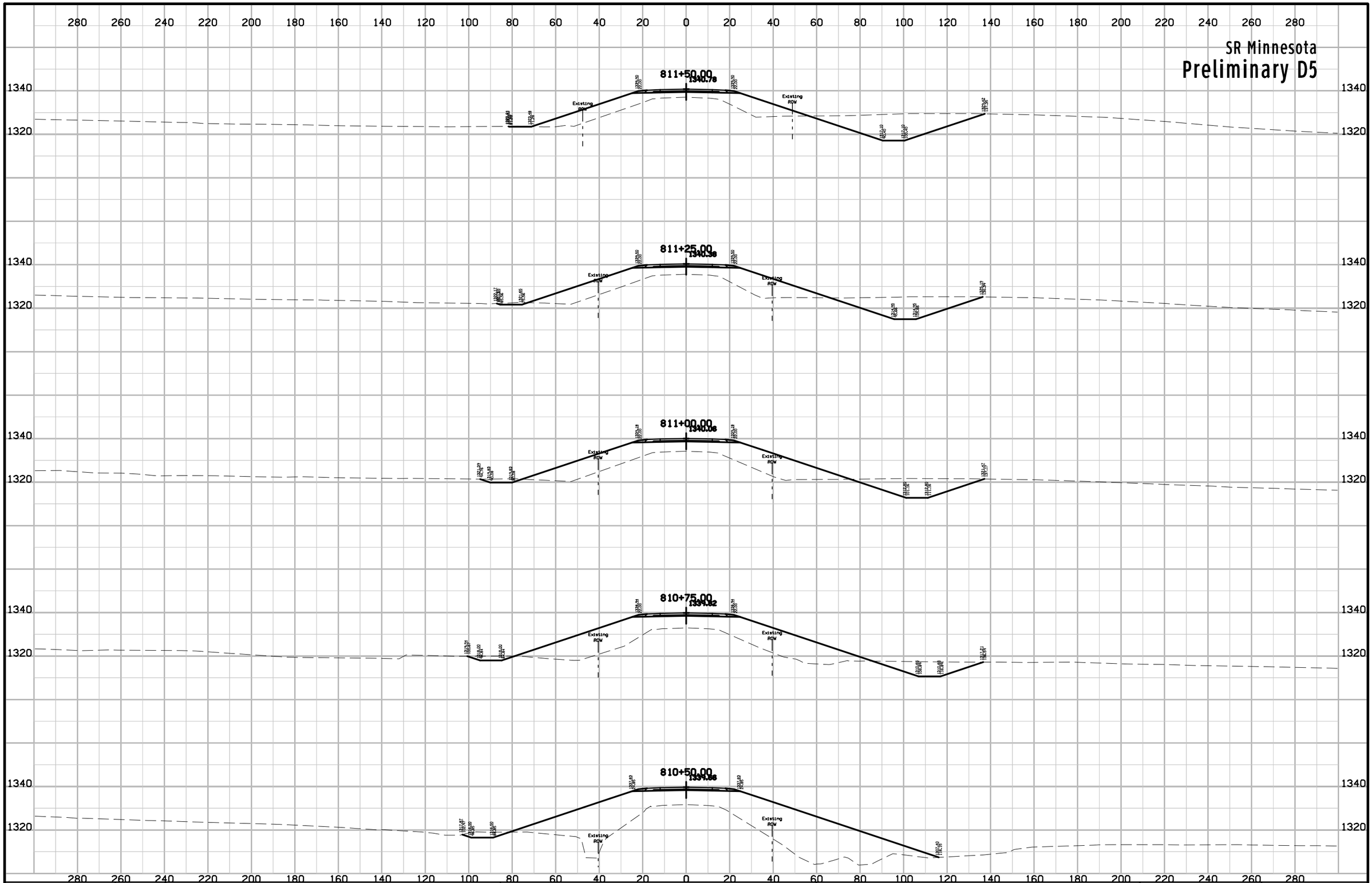
SR Minnesota

Preliminary D5



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SR Minnesota

Preliminary D5

813+00.00
1344.85

812+75.00
1343.90

812+50.00
1343.15

812+25.00
1342.44

812+00.00
1341.81

811+75.00
1341.25

Existing ROW

1340
1320

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.806

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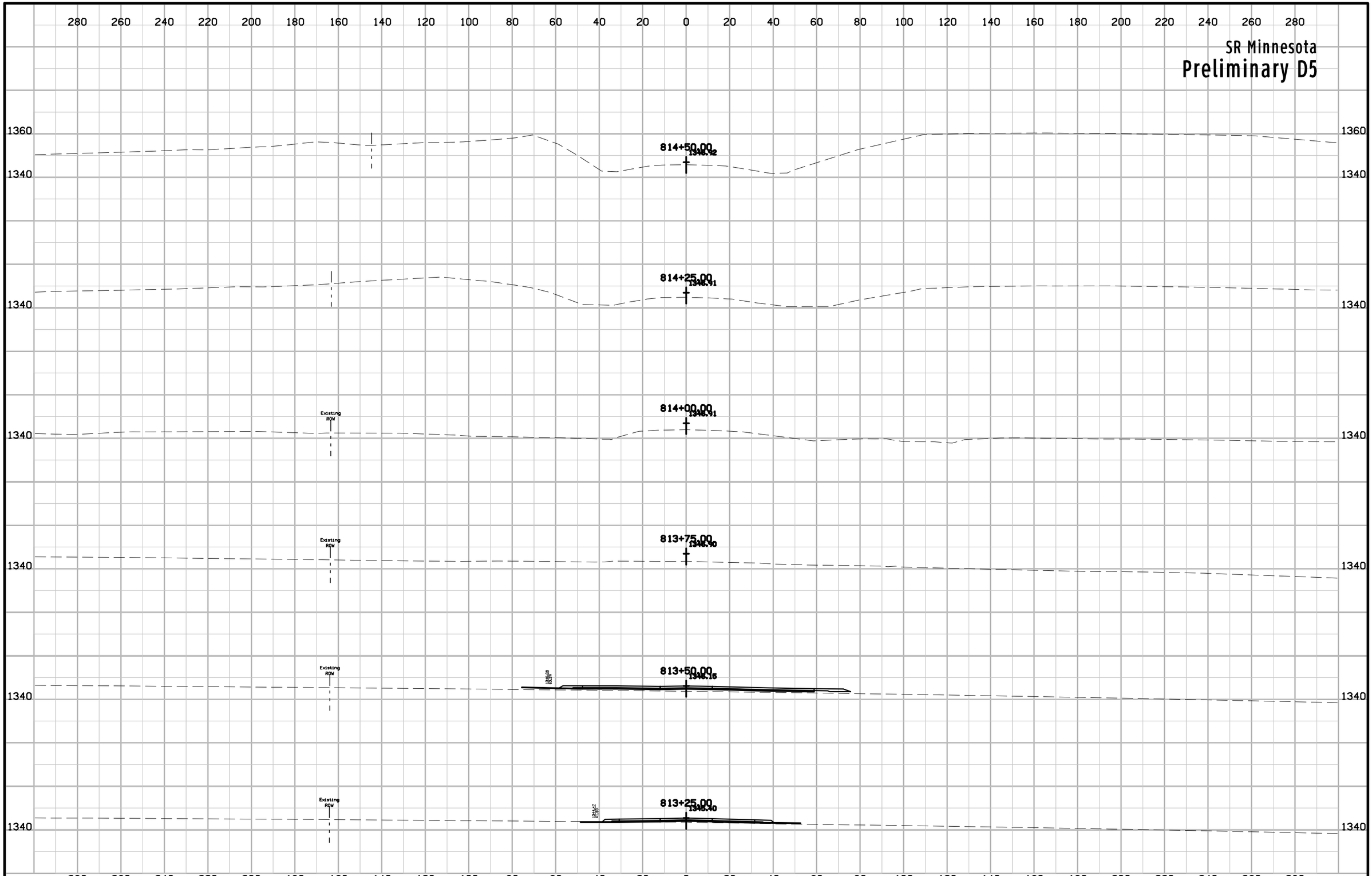

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.807

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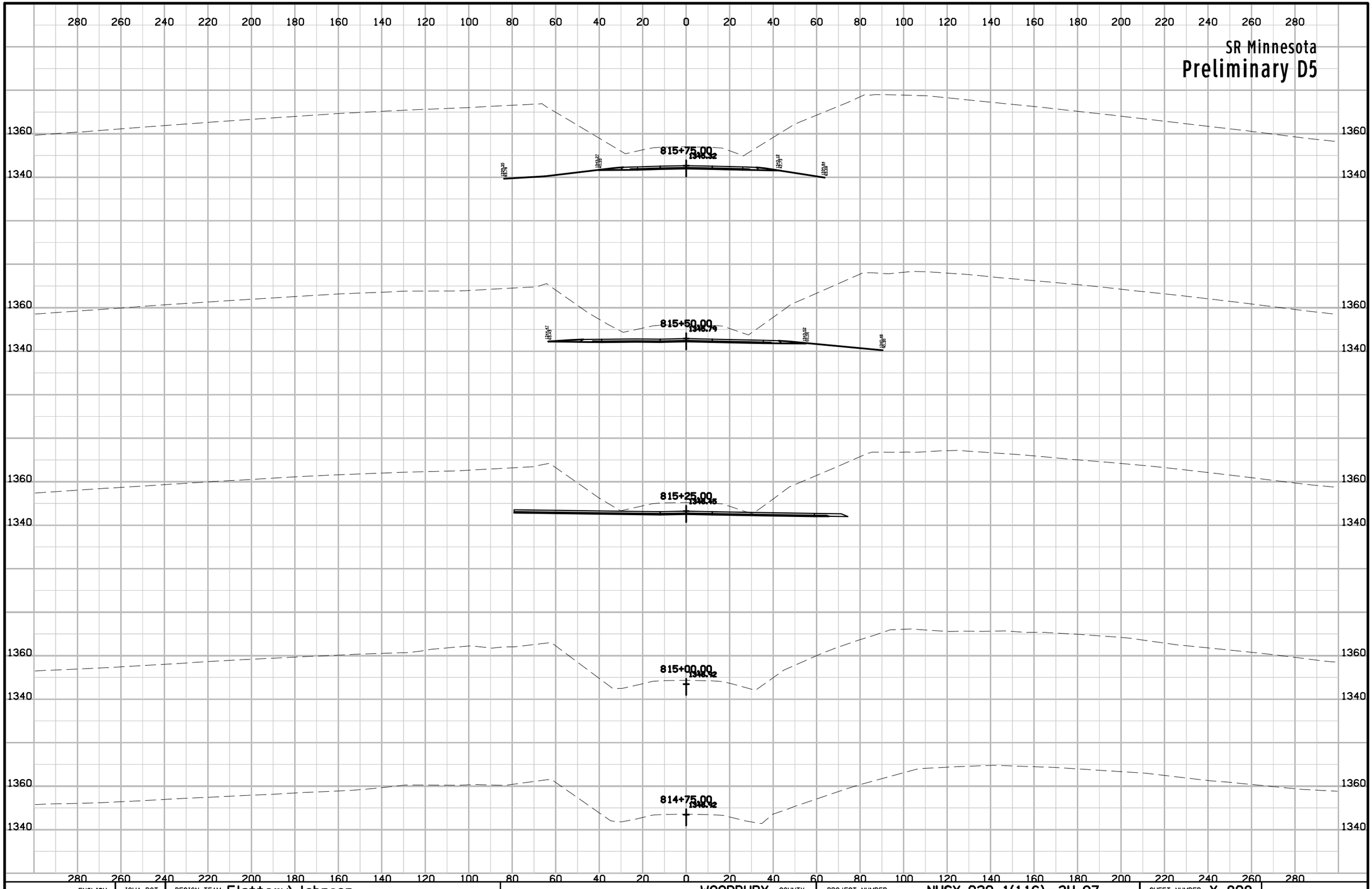
SR Minnesota

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.808

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SR Minnesota

Preliminary D5

817+00.00
1348.30

816+75.00
1348.33

816+50.00
1348.04

816+25.00
1344.95

816+00.00
1348.04

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.809

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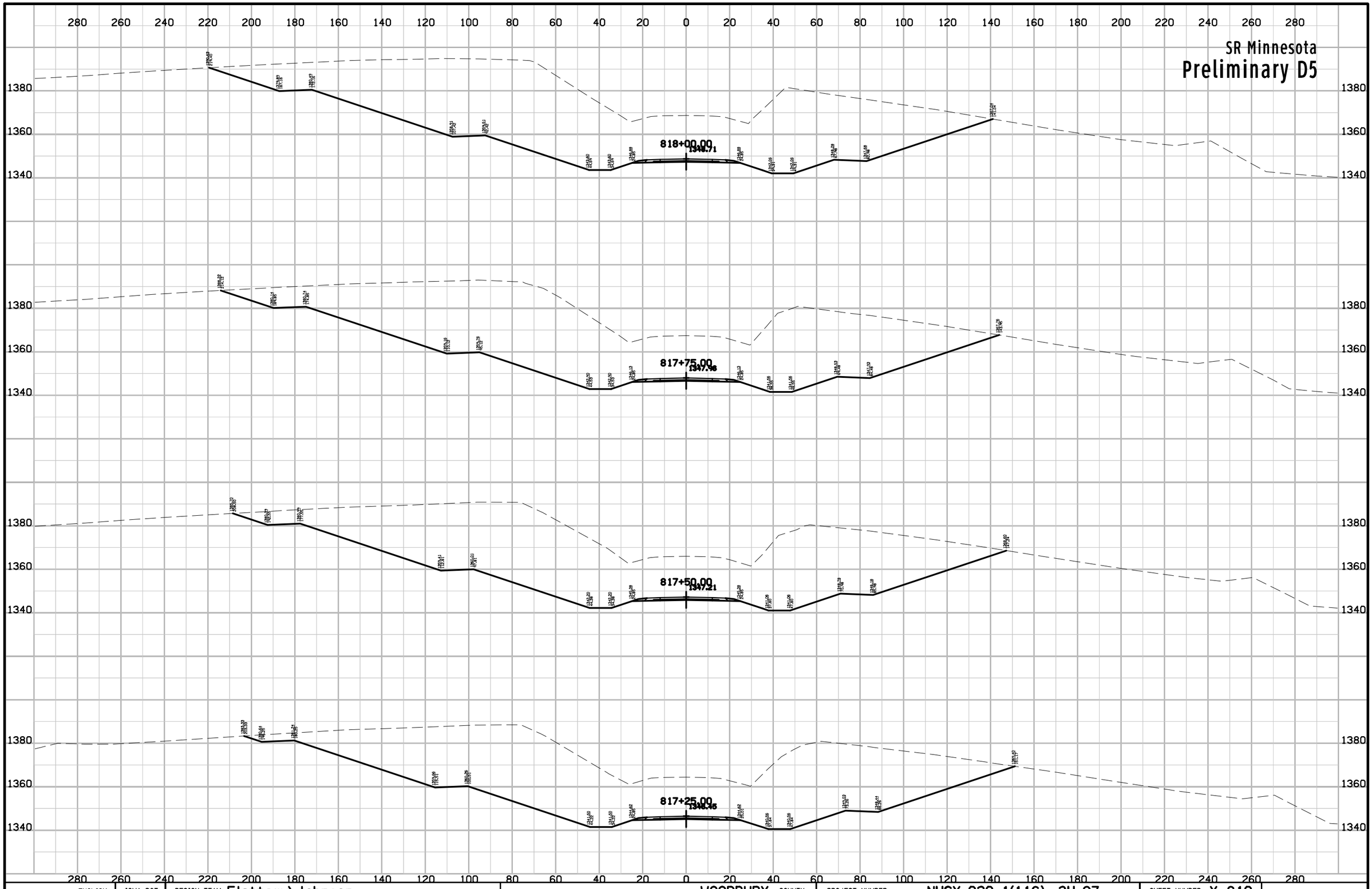
SR Minnesota

Preliminary D5



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SR Minnesota

Preliminary D5

819+00.00
1361.71

818+75.00
1360.96

818+50.00
1360.21

818+25.00
1359.46

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.811

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SR Minnesota

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1400
1380
1360
1340

819+75.00
1383.47

819+50.00
1383.22

819+25.00
1382.47

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.812

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SR Minnesota

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1400
1380
1360
1340

820+50.00
1360.22

820+25.00
1365.47

820+00.00
1364.72

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.813

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SR Minnesota

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.814

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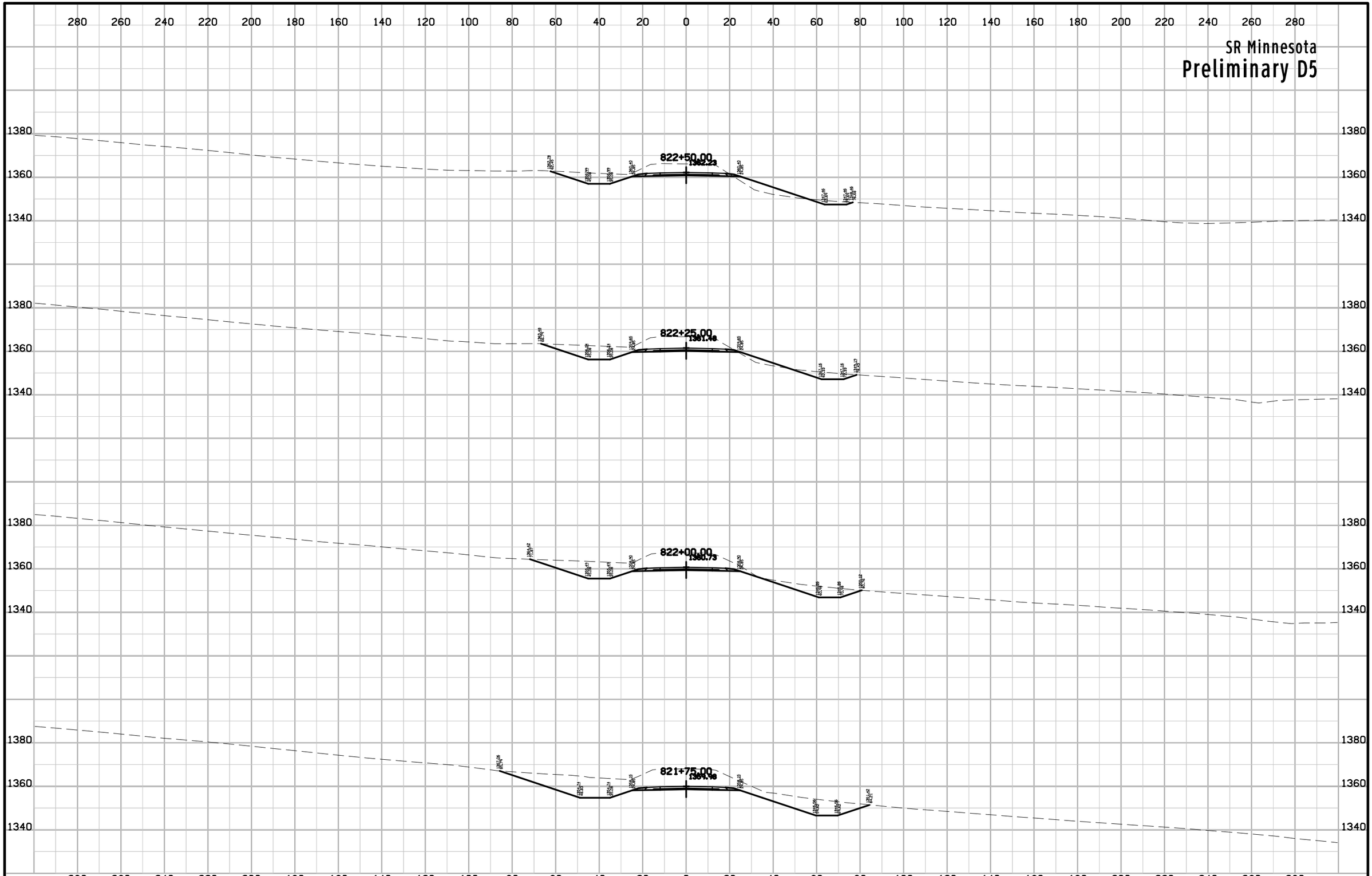

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SR Minnesota

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1380
1360

823+25.00
1364.19

823+00.00
1363.74

822+75.00
1362.99

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.816

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SR Minnesota

Preliminary D5

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1380
1360

824+25.00
1367.19

824+00.00
1368.74

823+75.00
1365.99

823+50.00
1365.24

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.817

9:54:19 AM 5/2/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_560.sht

SR Mason

Preliminary D5

902+75.00
1240.13

902+50.00
1240.17

902+25.00
1244.21

902+00.00
1244.85

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.900

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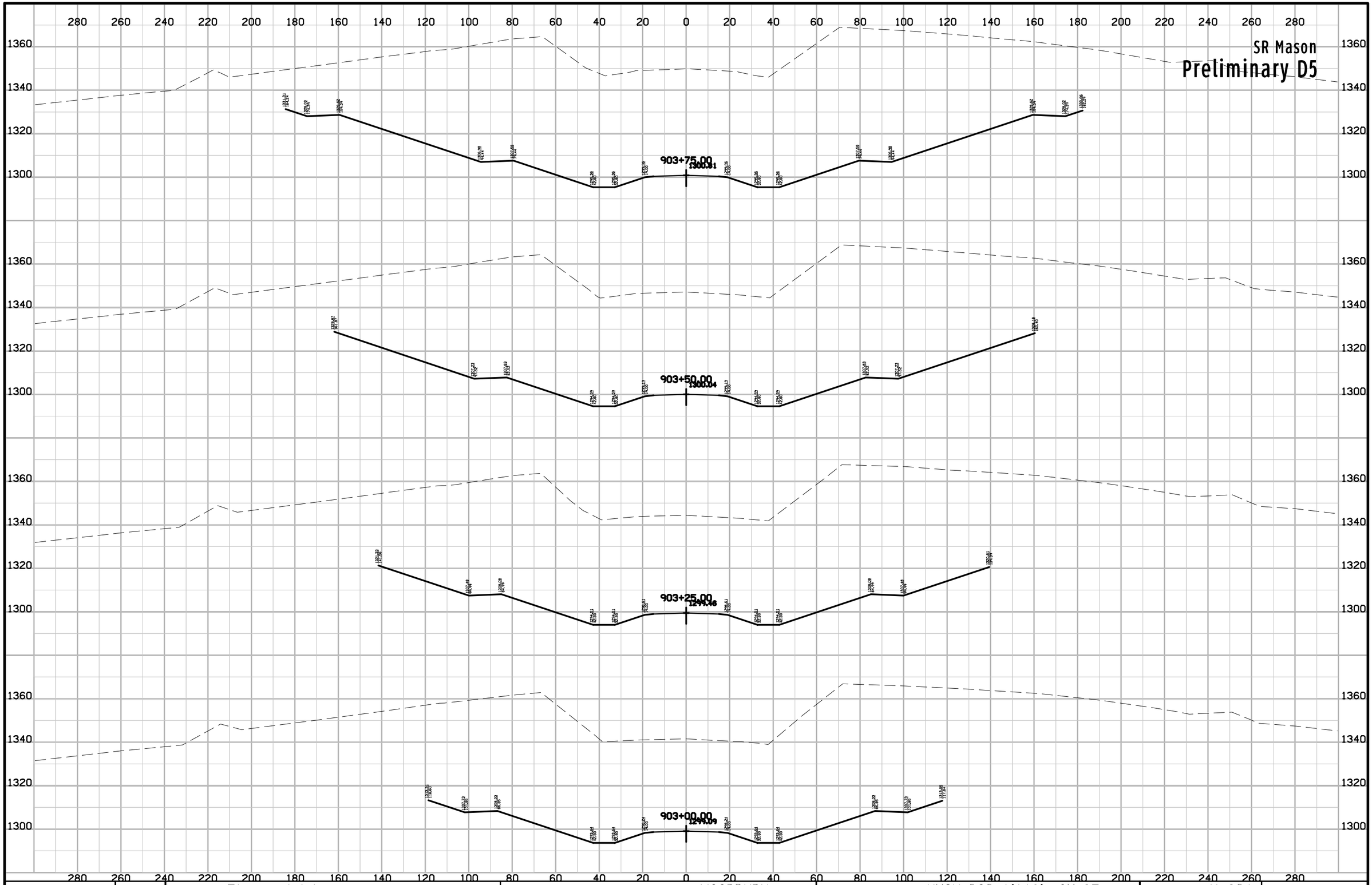
SR Mason

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.901

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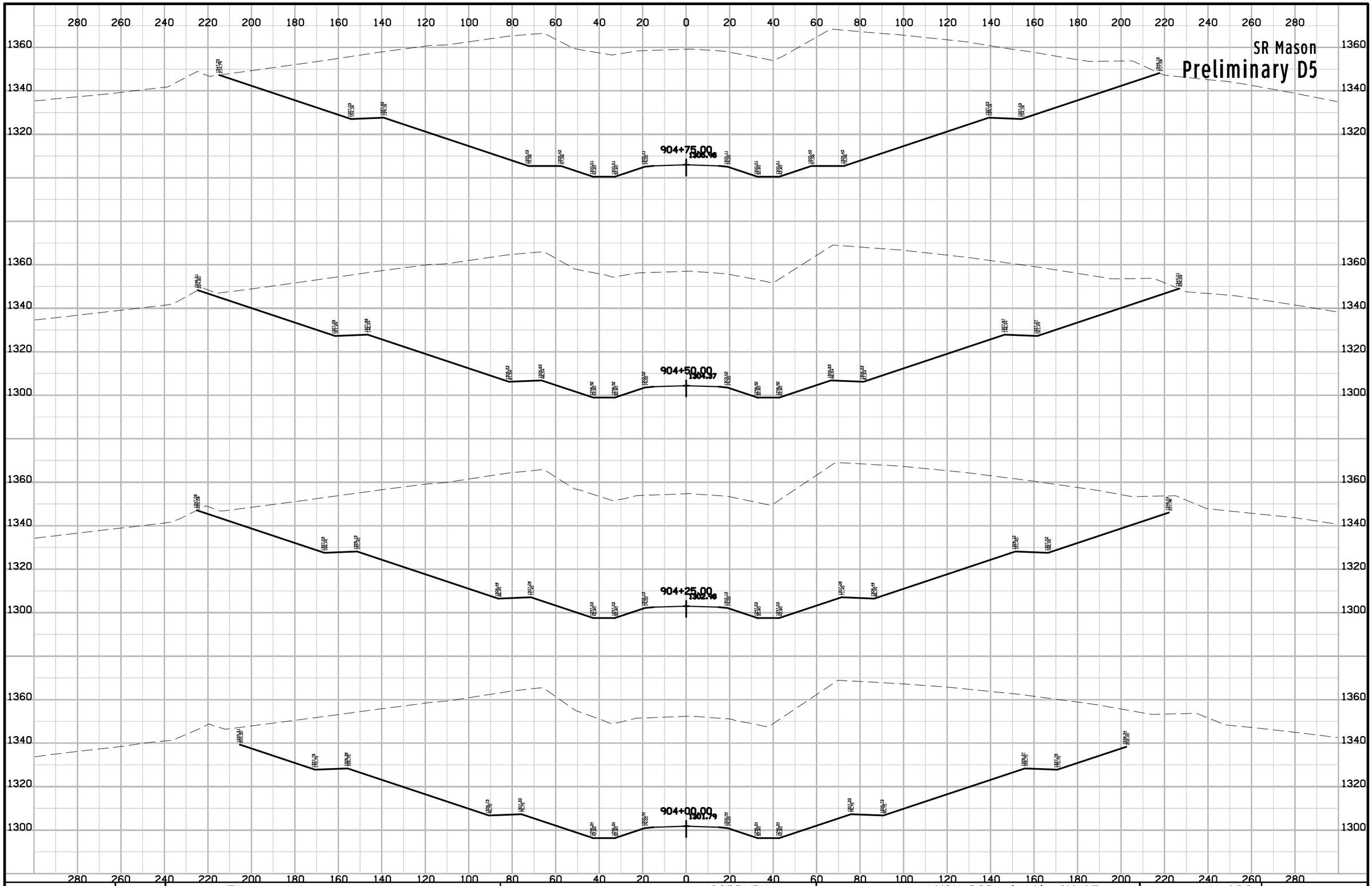
SR Mason

Preliminary D5



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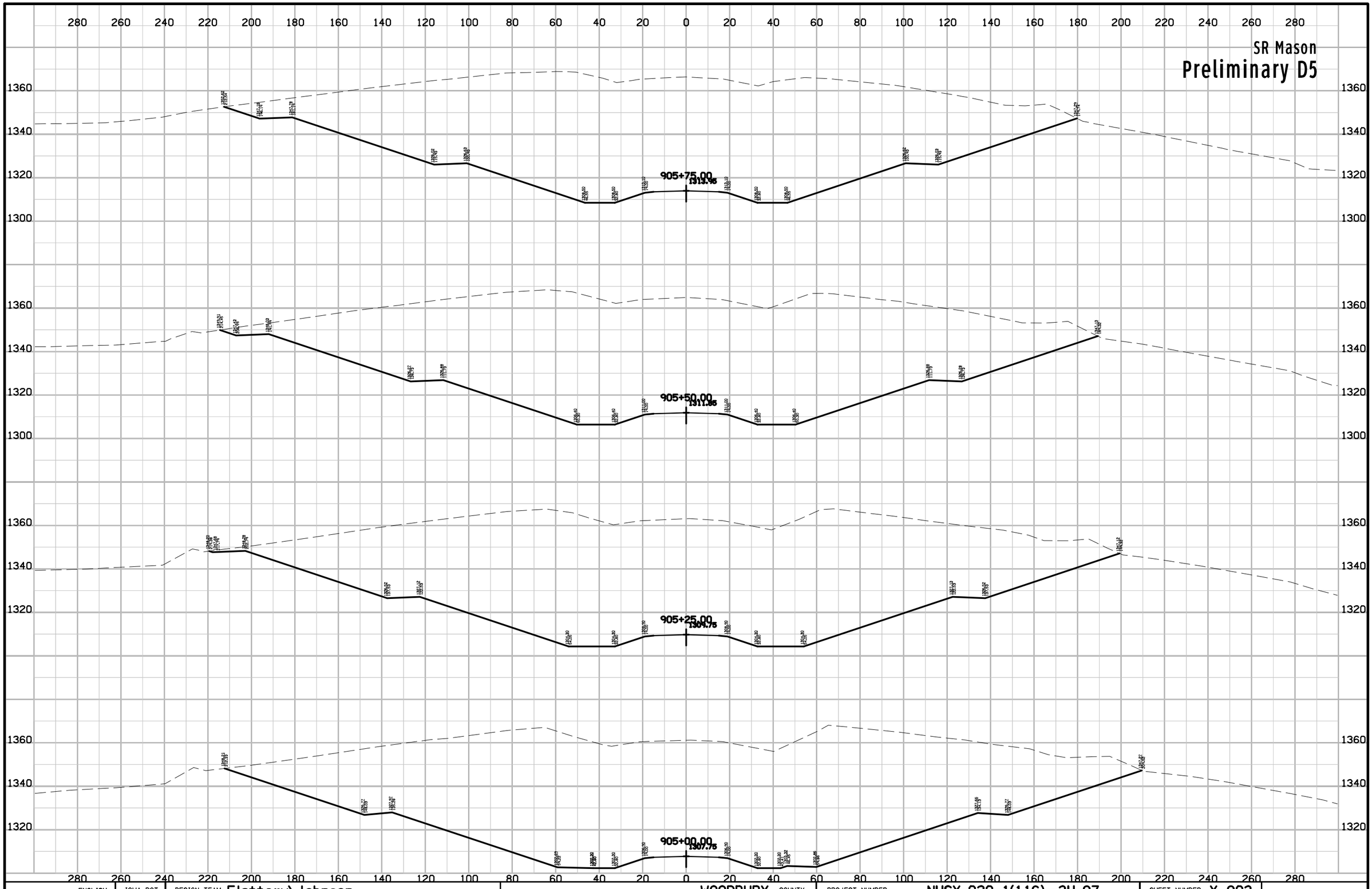
SR Mason

Preliminary D5



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SR Mason

Preliminary D5

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1360
1340
1320
1300

906+50.00
1320.25

906+25.00
1318.15

906+00.00
1318.06

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.904

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SR Mason

Preliminary D5

907+25.00
1326.55

907+00.00
1324.45

906+75.00
1322.35

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER X.905

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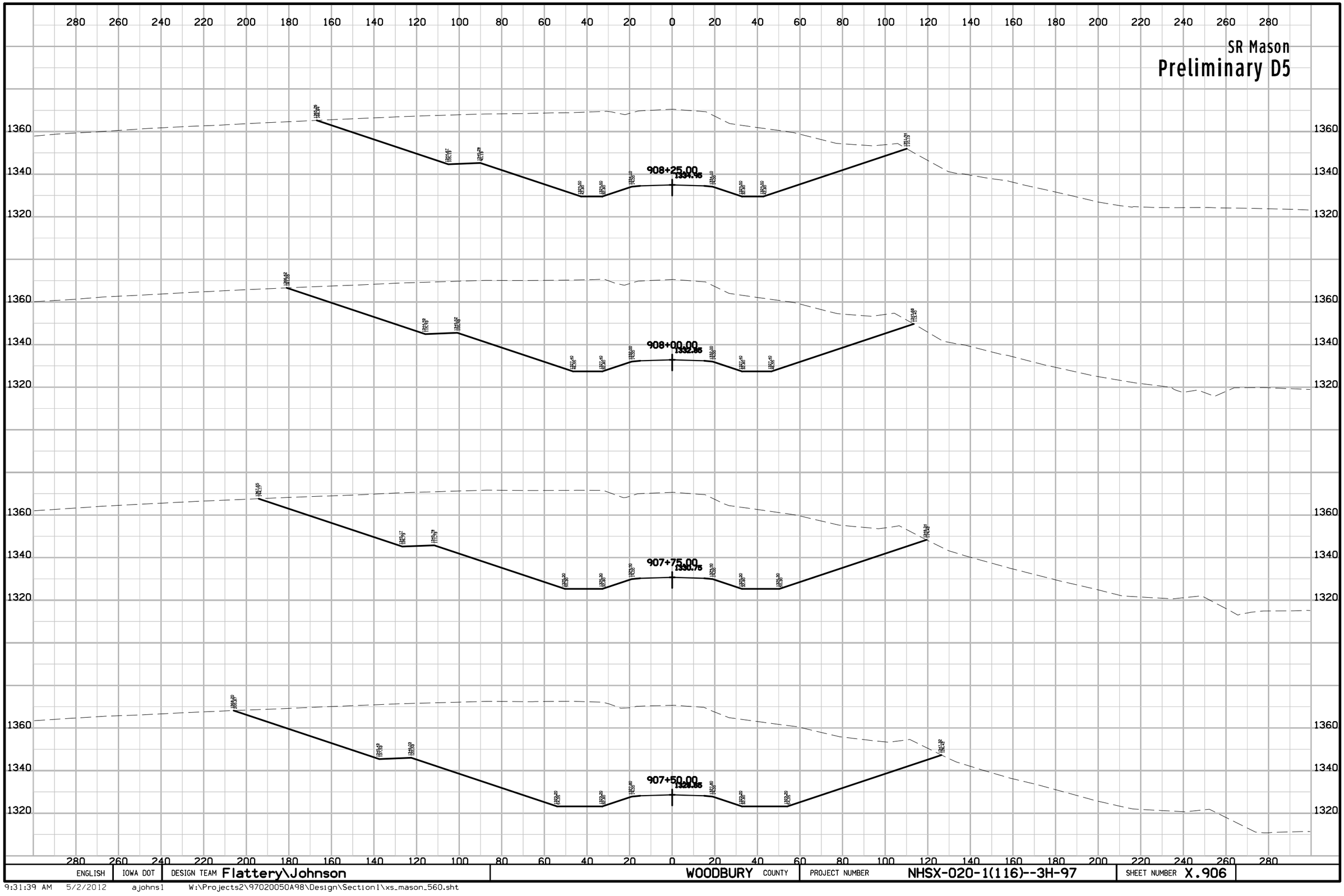
SR Mason

Preliminary D5



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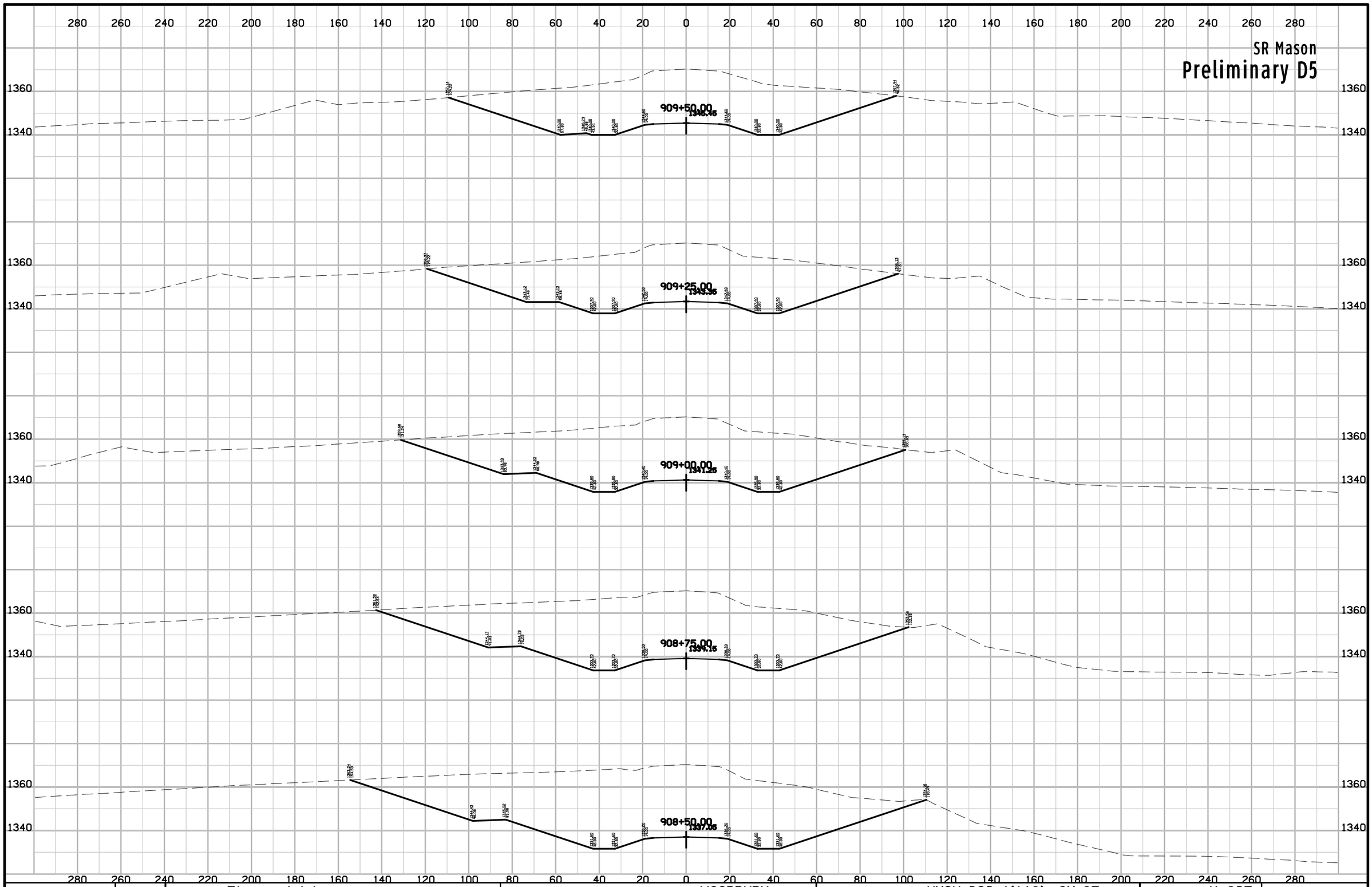
SR Mason

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.907

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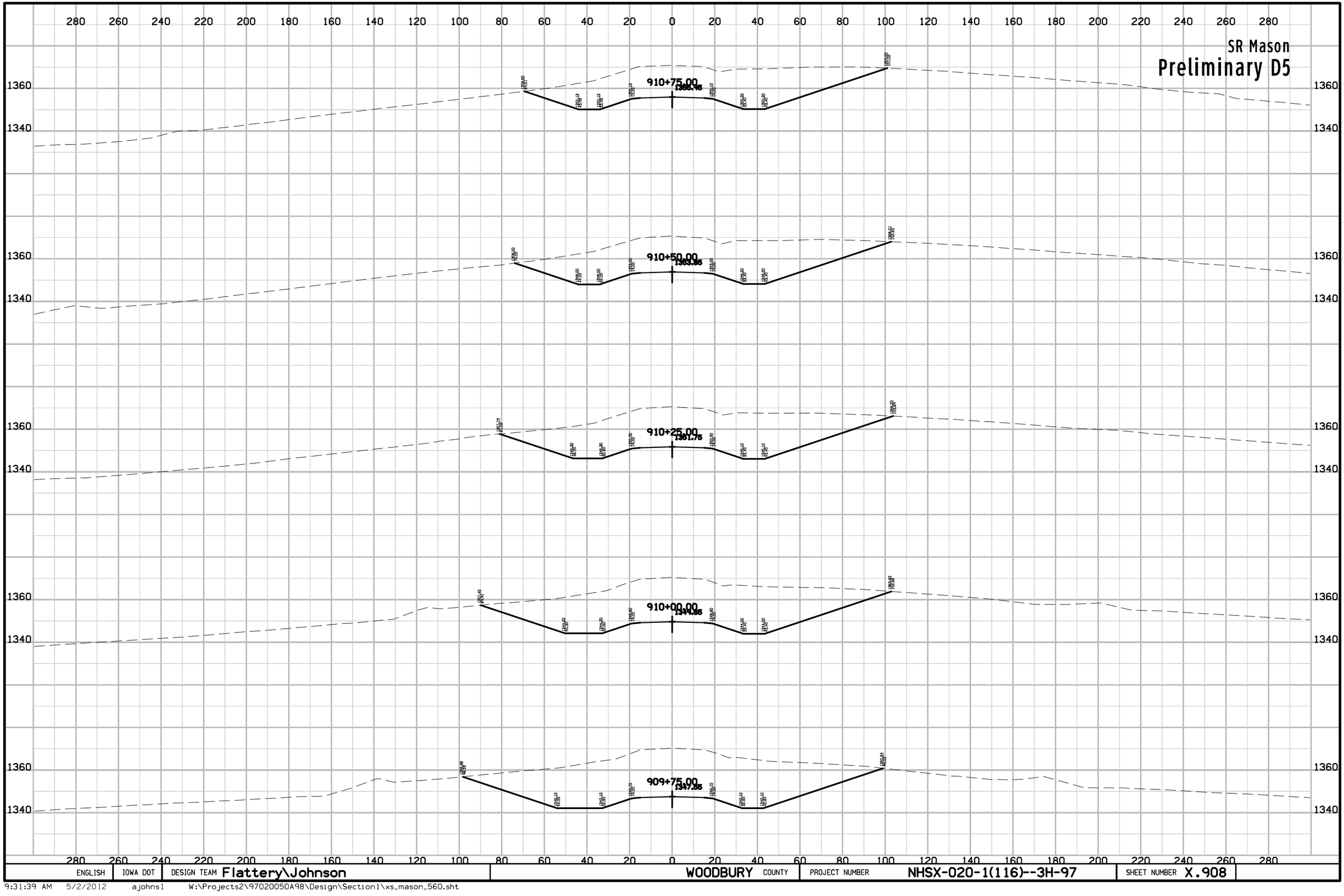
SR Mason

Preliminary D5



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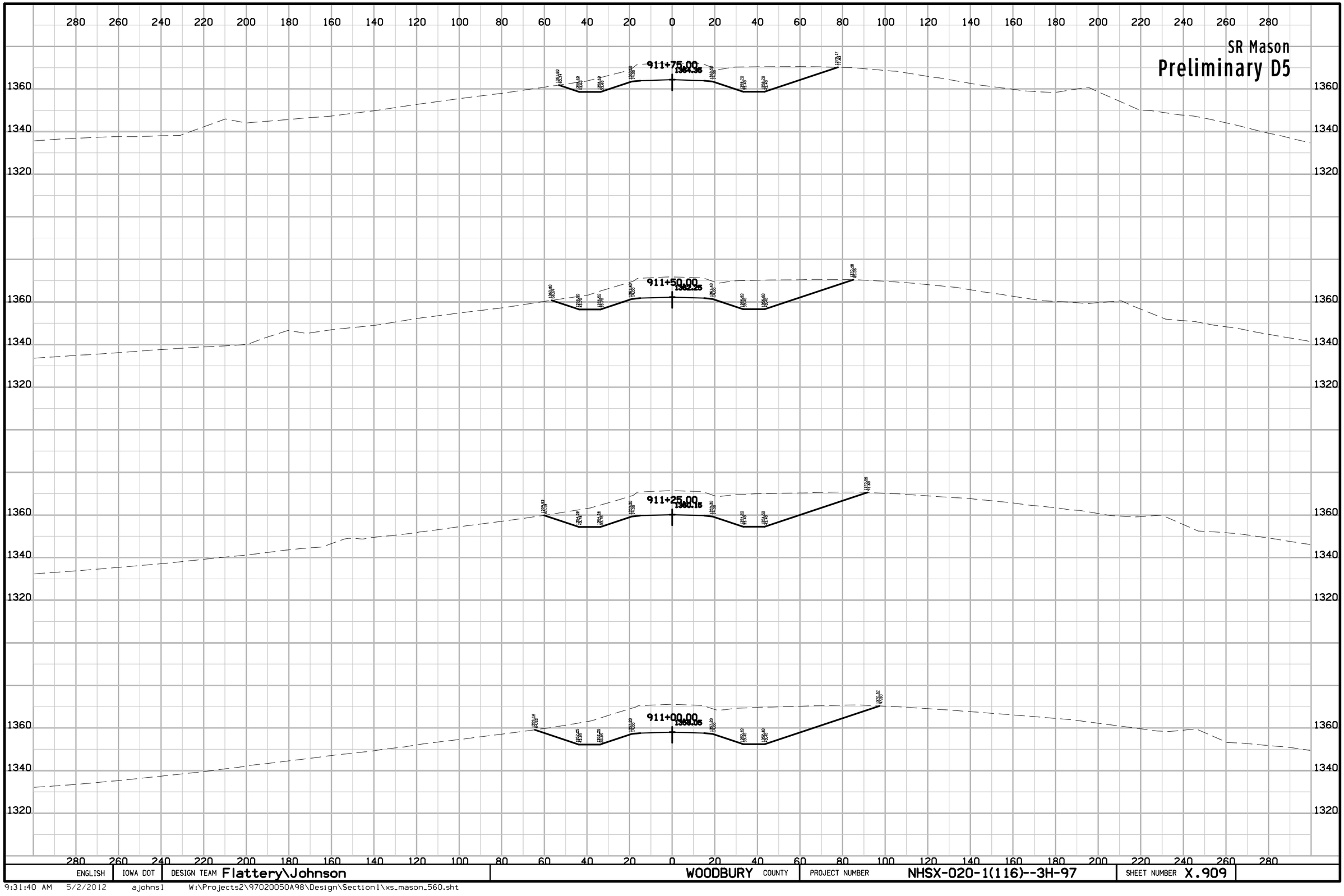
SR Mason

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.909

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SR Mason

Preliminary D5

912+75.00
1372.70

912+50.00
1370.85

912+25.00
1368.55

912+00.00
1366.75

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.910

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SR Mason

Preliminary D5

913+75.00
1374.31

913+50.00
1374.19

913+25.00
1374.47

913+00.00
1374.33

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1380
1360
1340
1320

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.911

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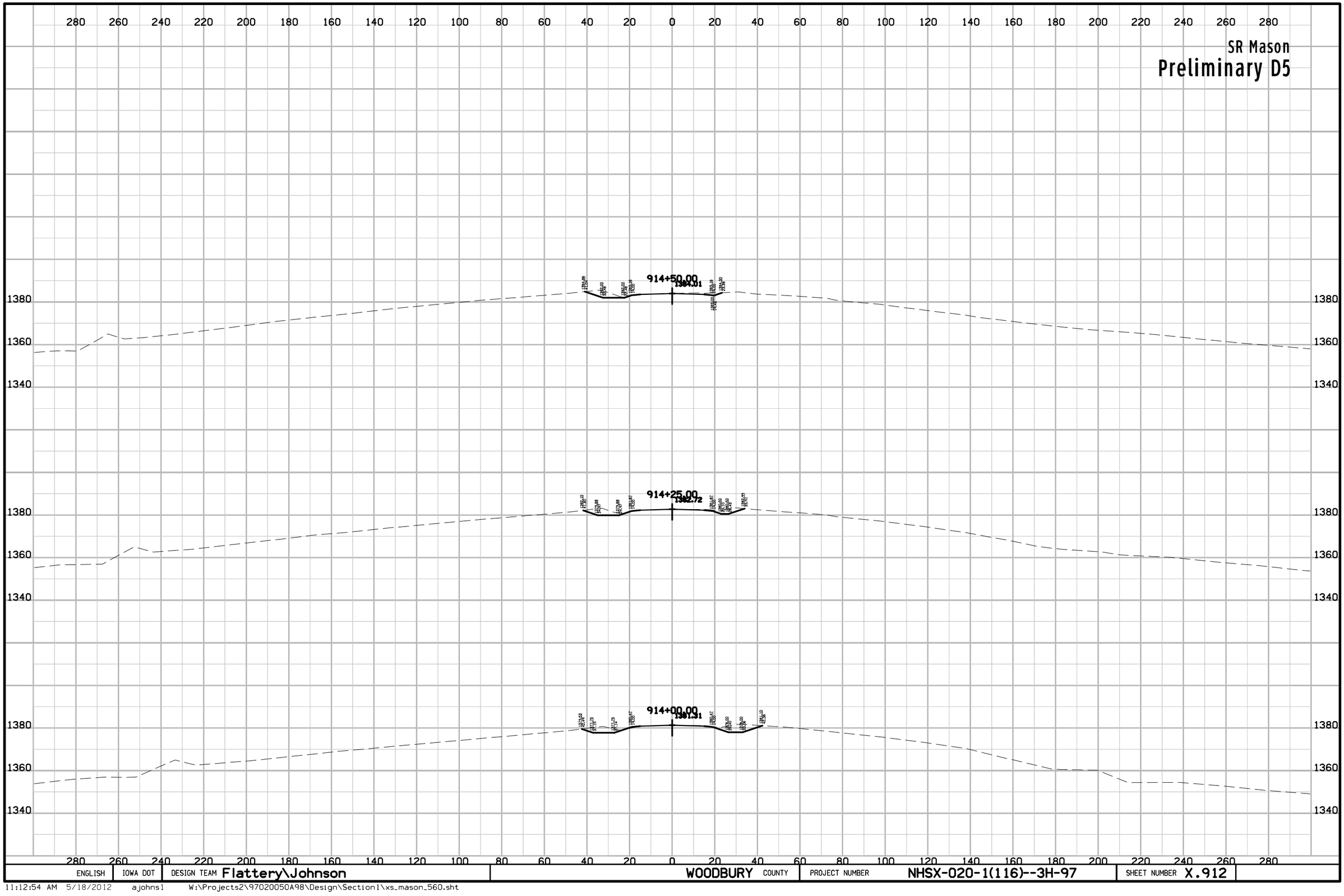
SR Mason

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.912

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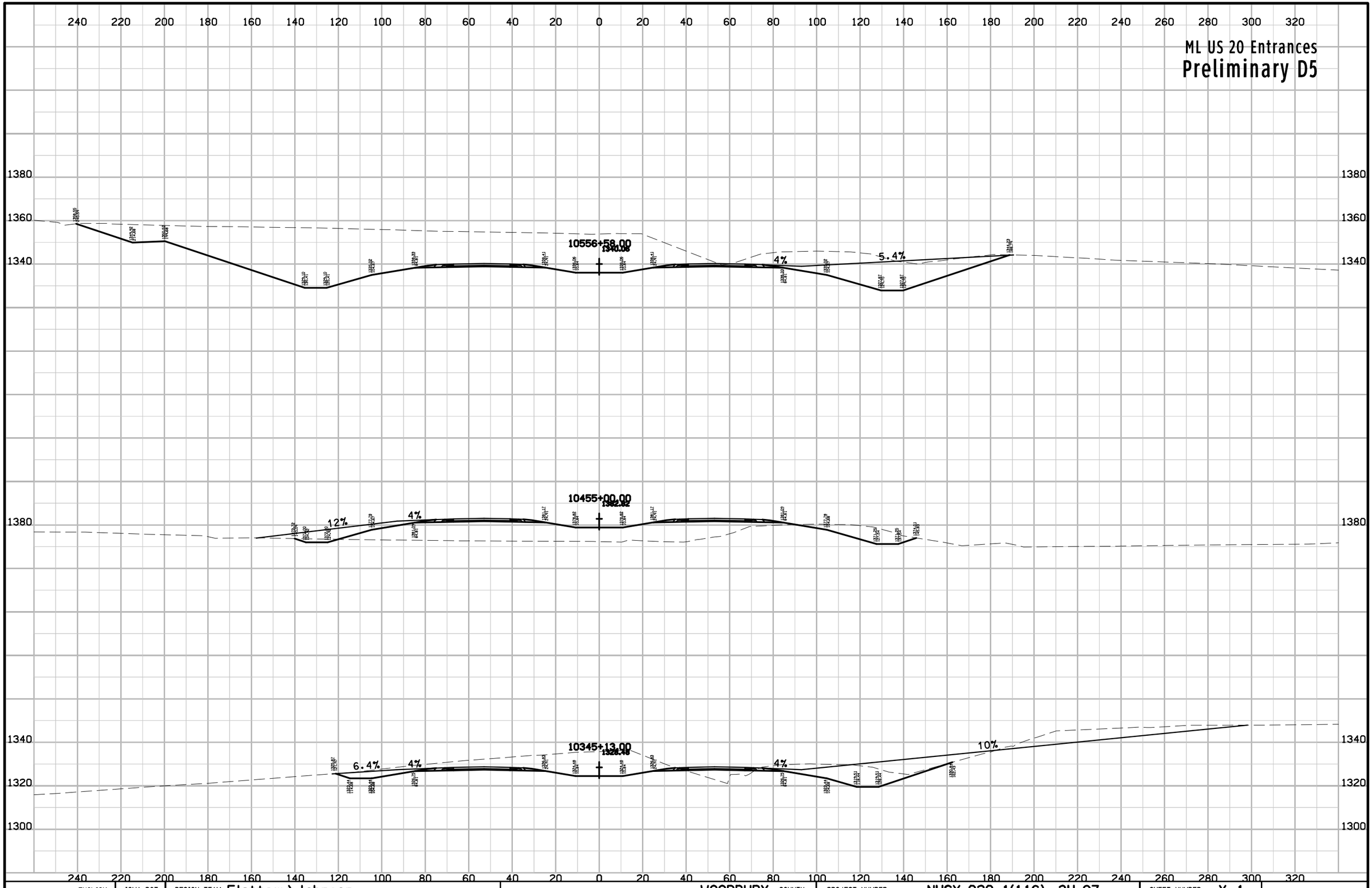
ML US 20 Entrances

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER Y.1

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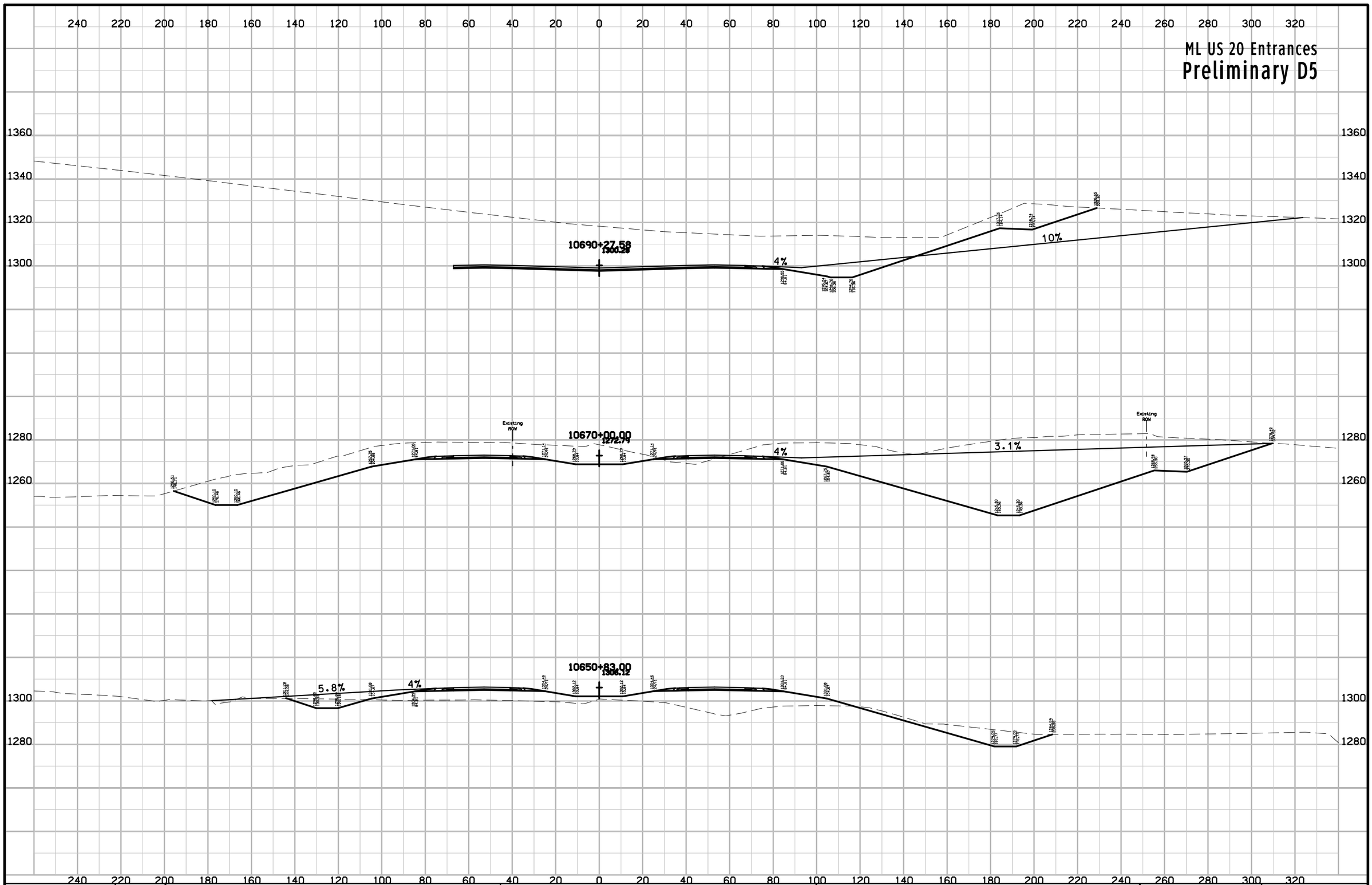
ML US 20 Entrances

Preliminary D5



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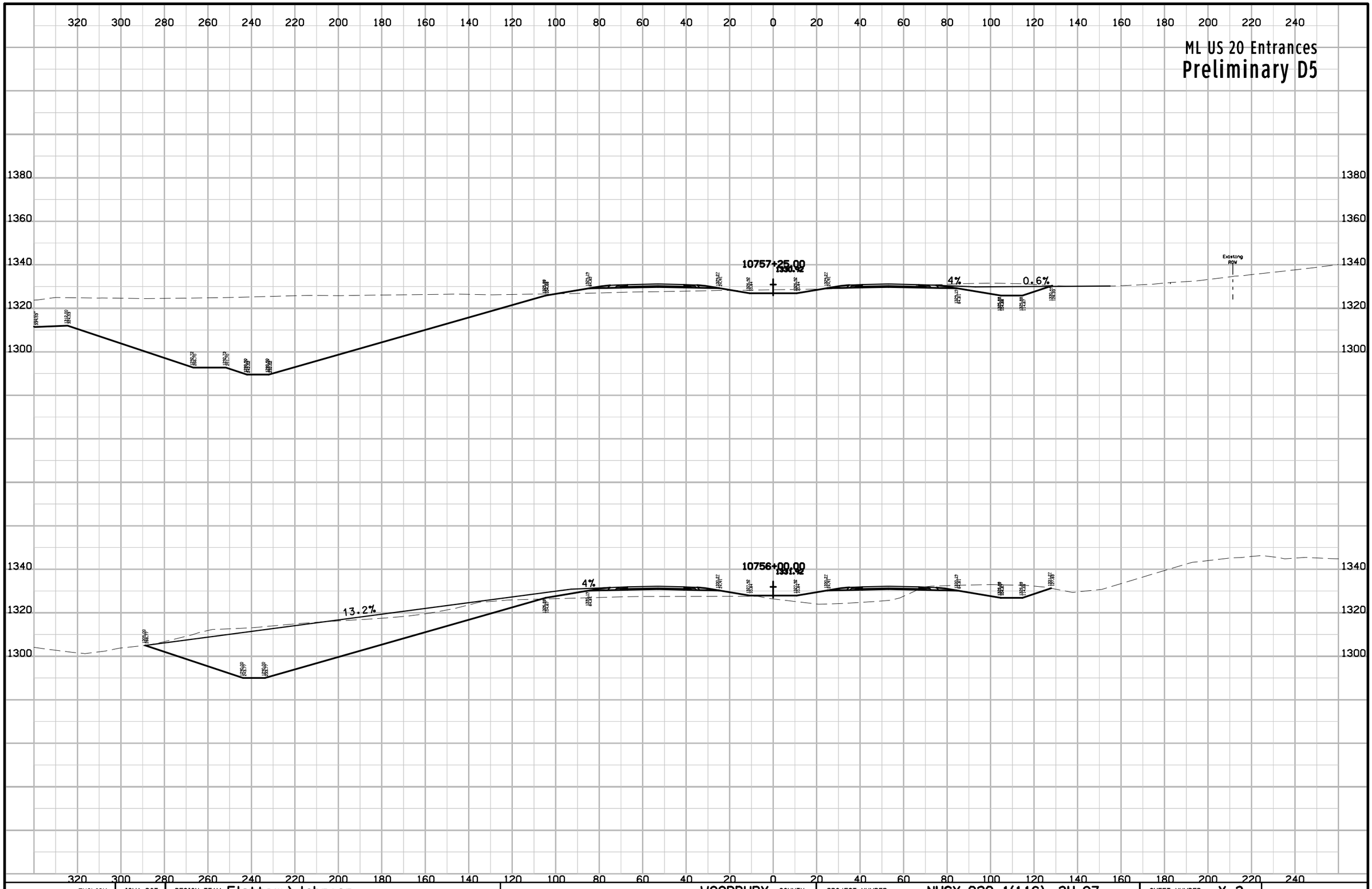
ML US 20 Entrances

Preliminary D5



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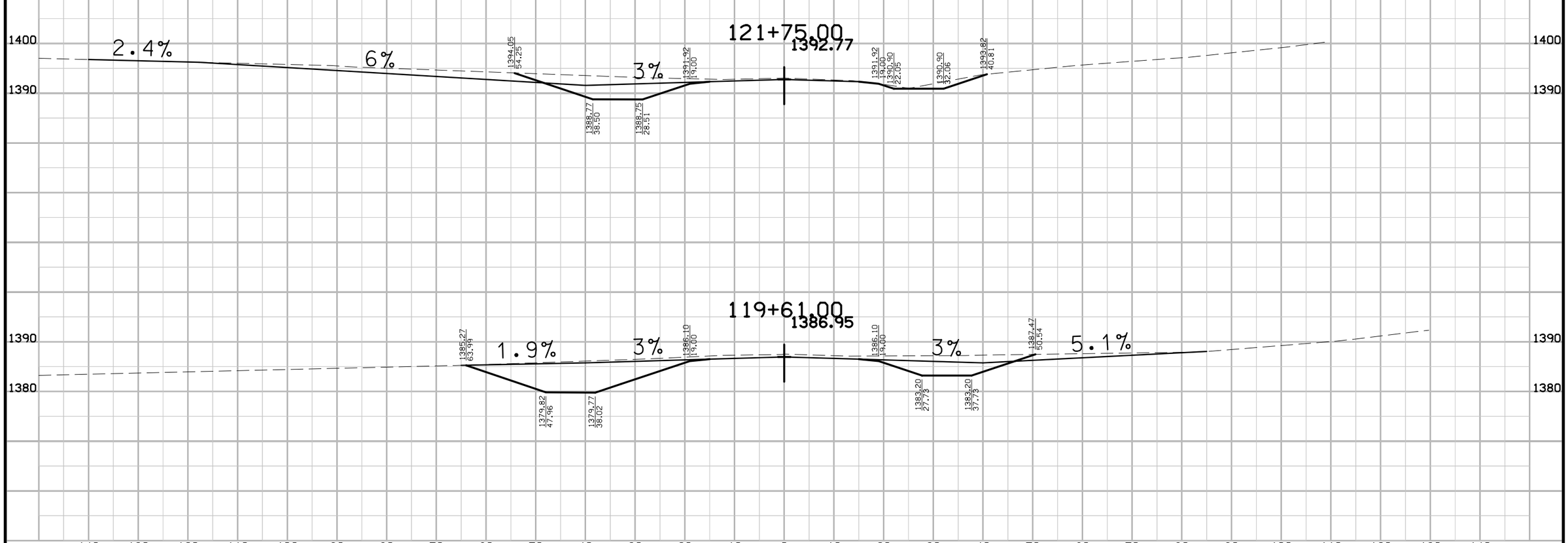
SR Jasper Entrances

Preliminary D5



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SR Jewell Entrances

Preliminary D5



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER Y.5

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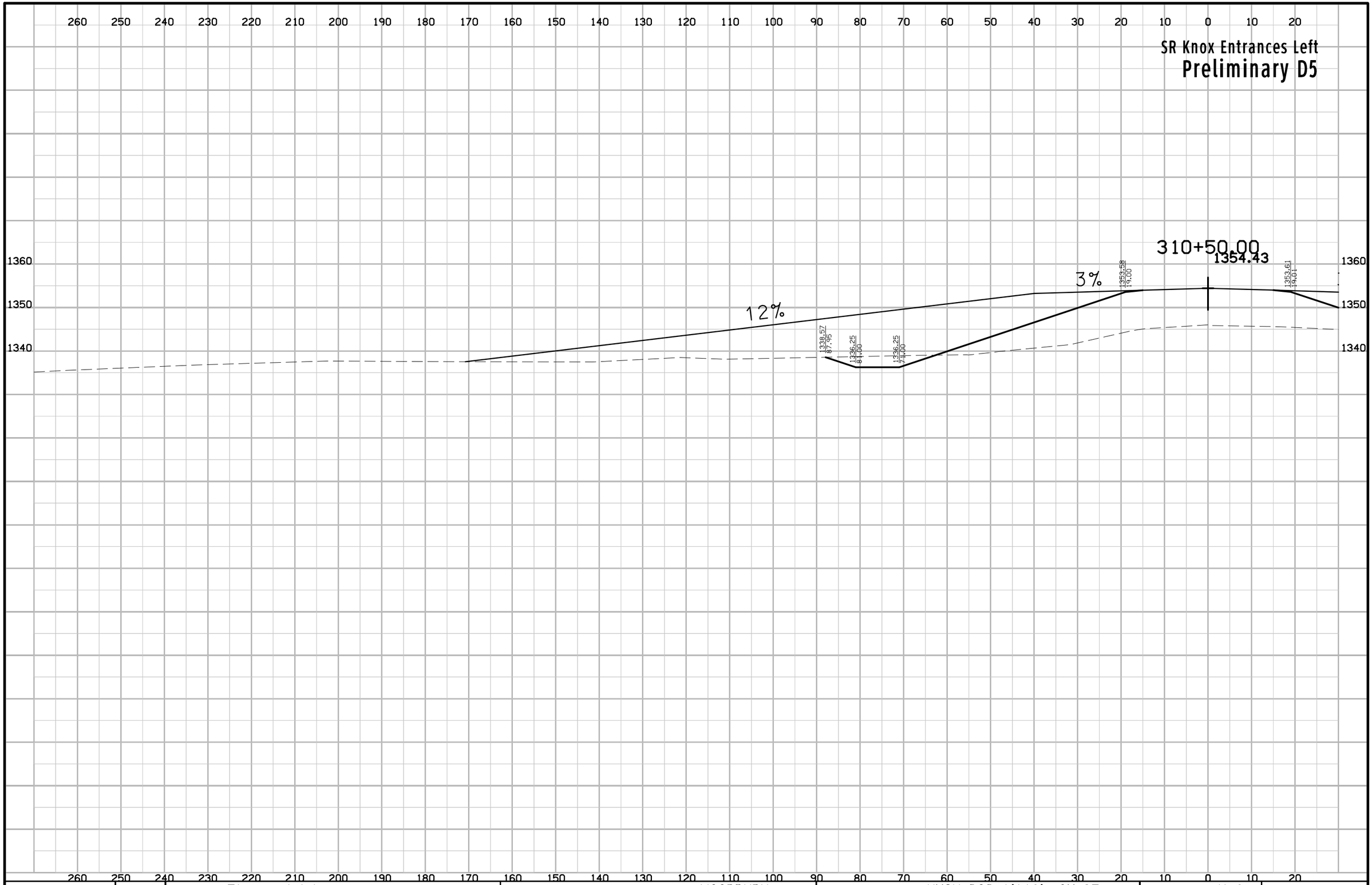
SR Knox Entrances Left

Preliminary D5



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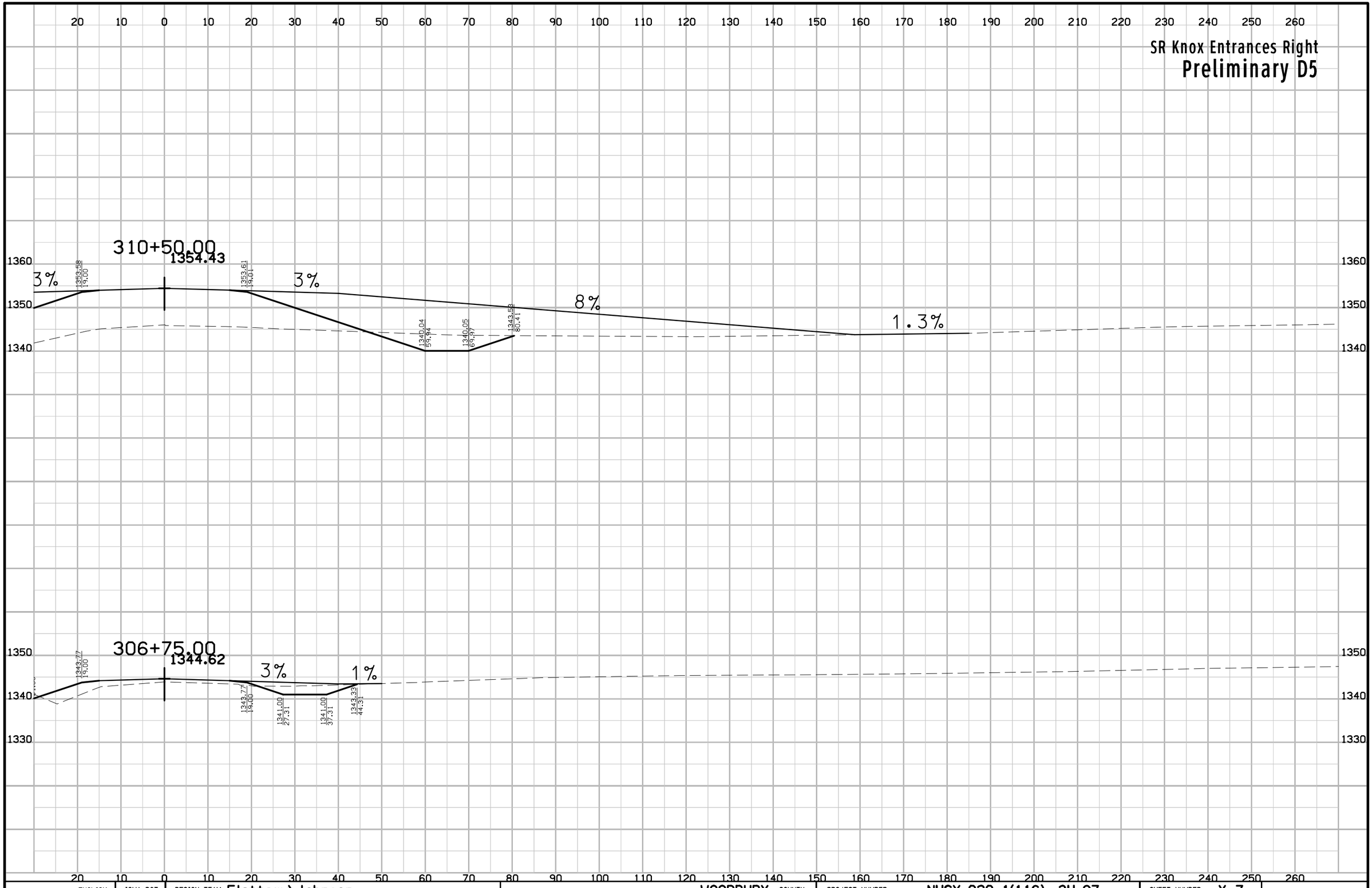
SR Knox Entrances Right

Preliminary D5



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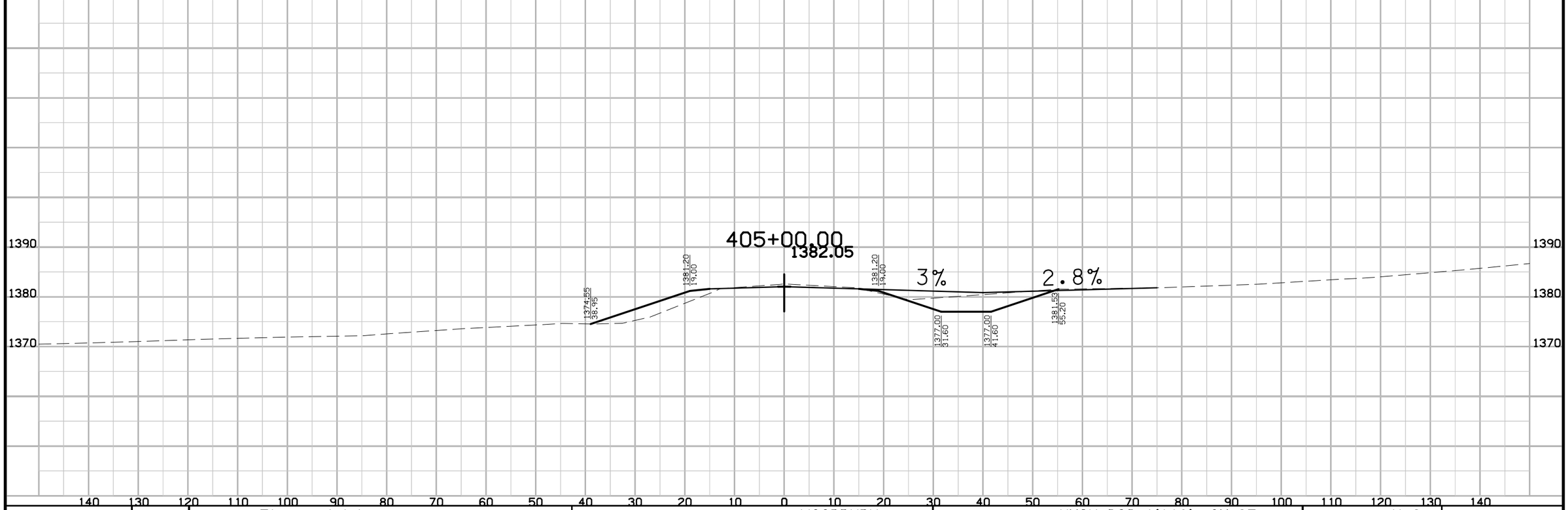
SR Kossuth Entrances

Preliminary D5



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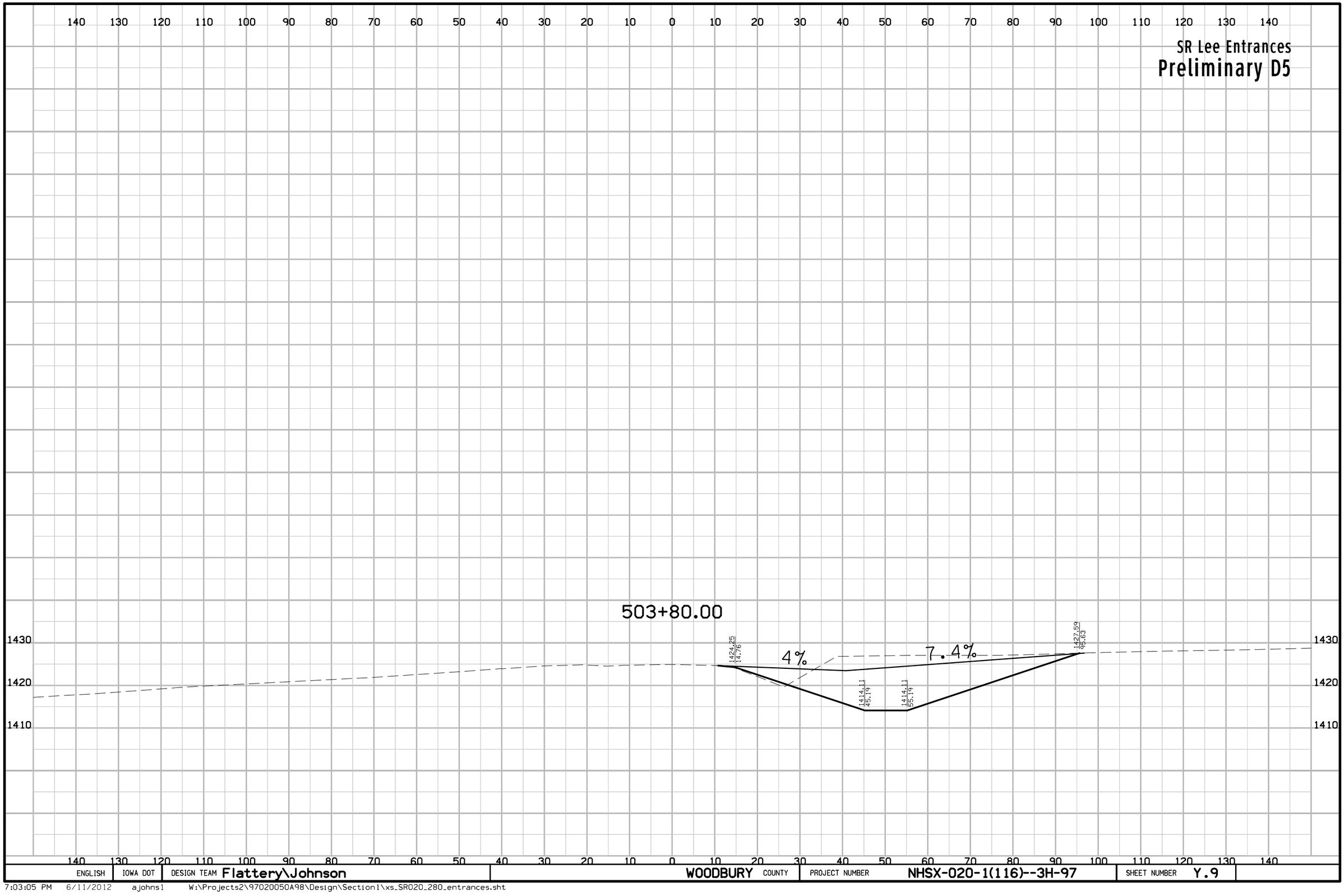
SR Lee Entrances

Preliminary D5



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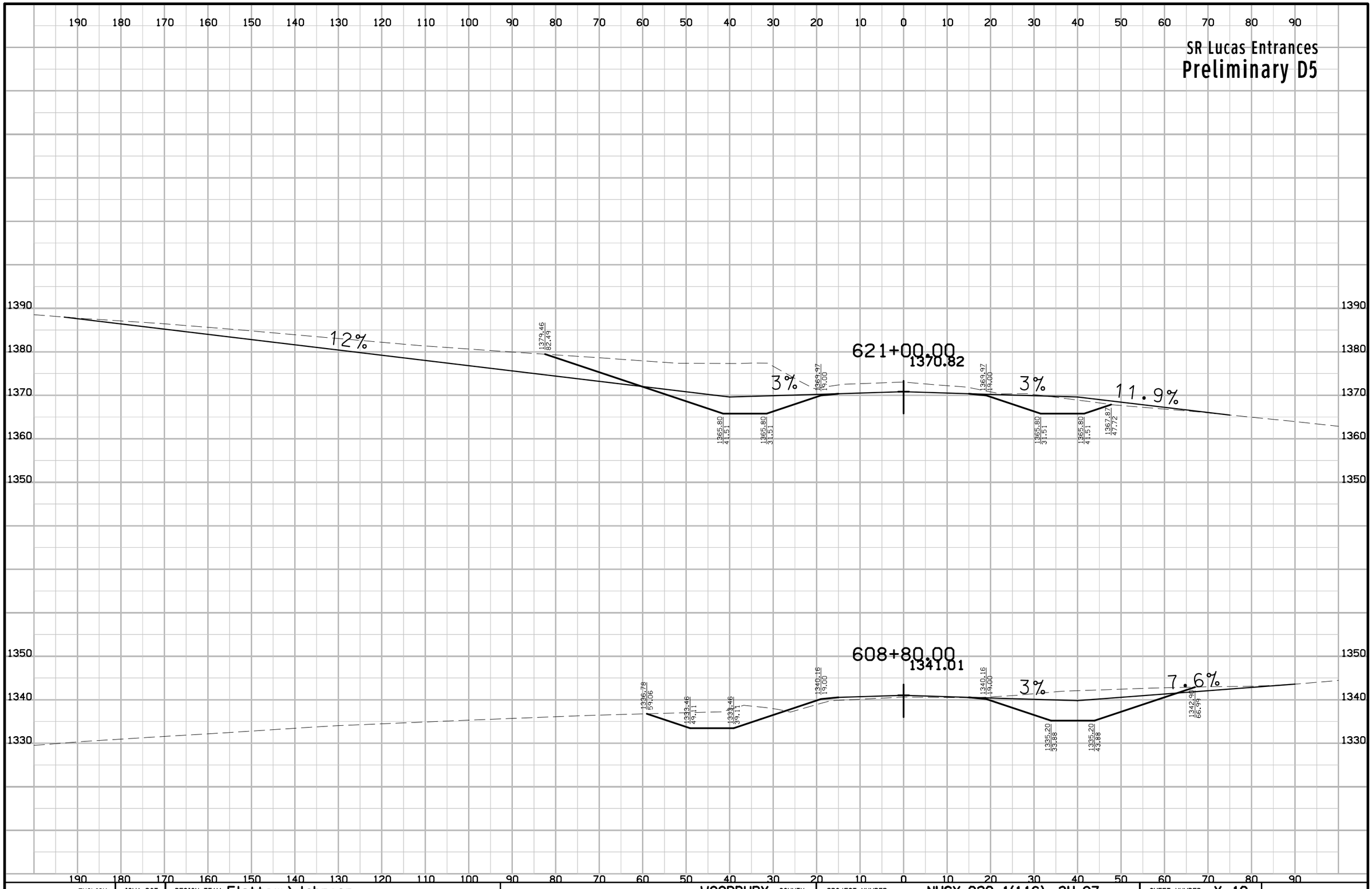
SR Lucas Entrances

Preliminary D5



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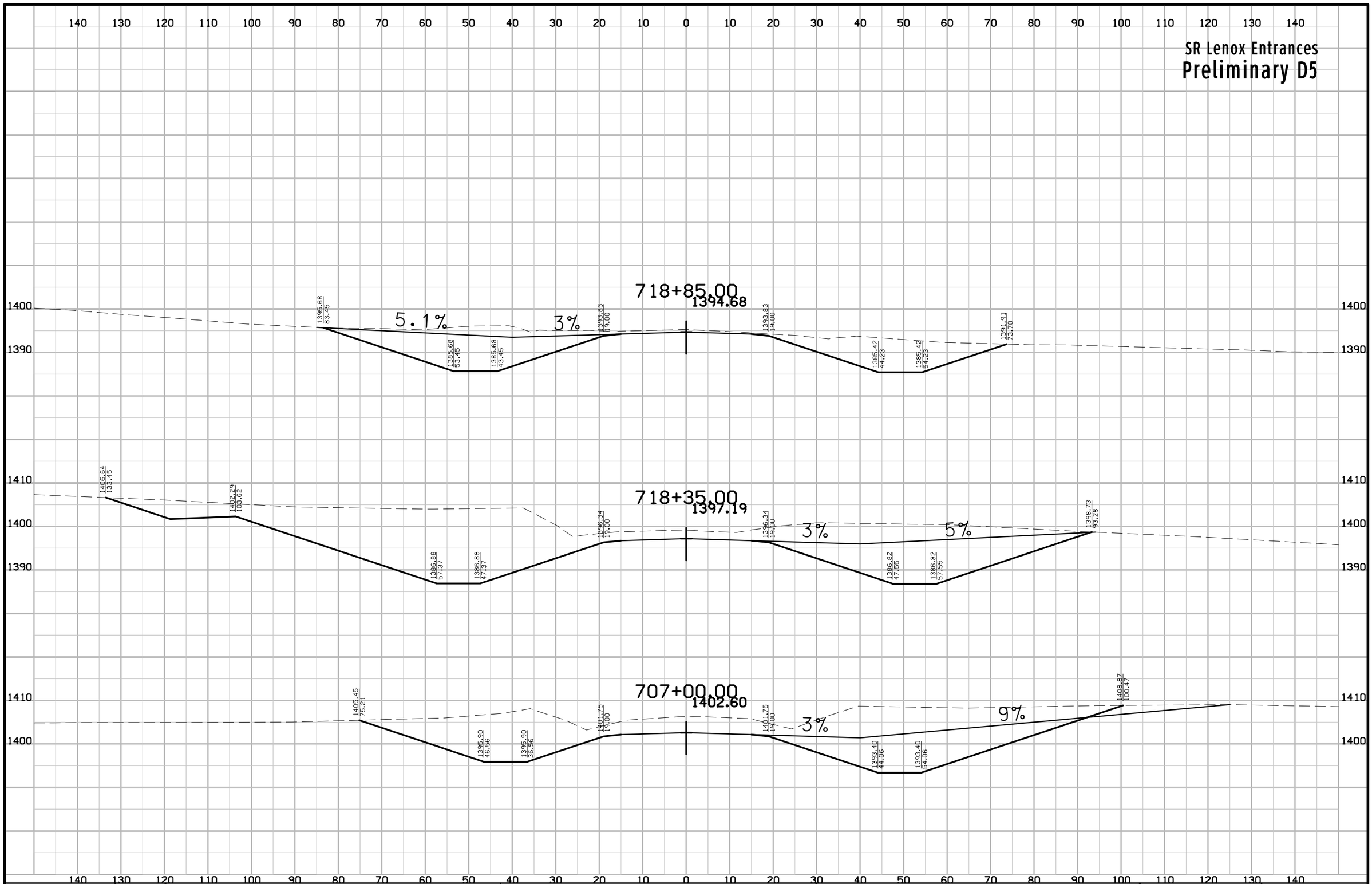
SR Lenox Entrances

Preliminary D5



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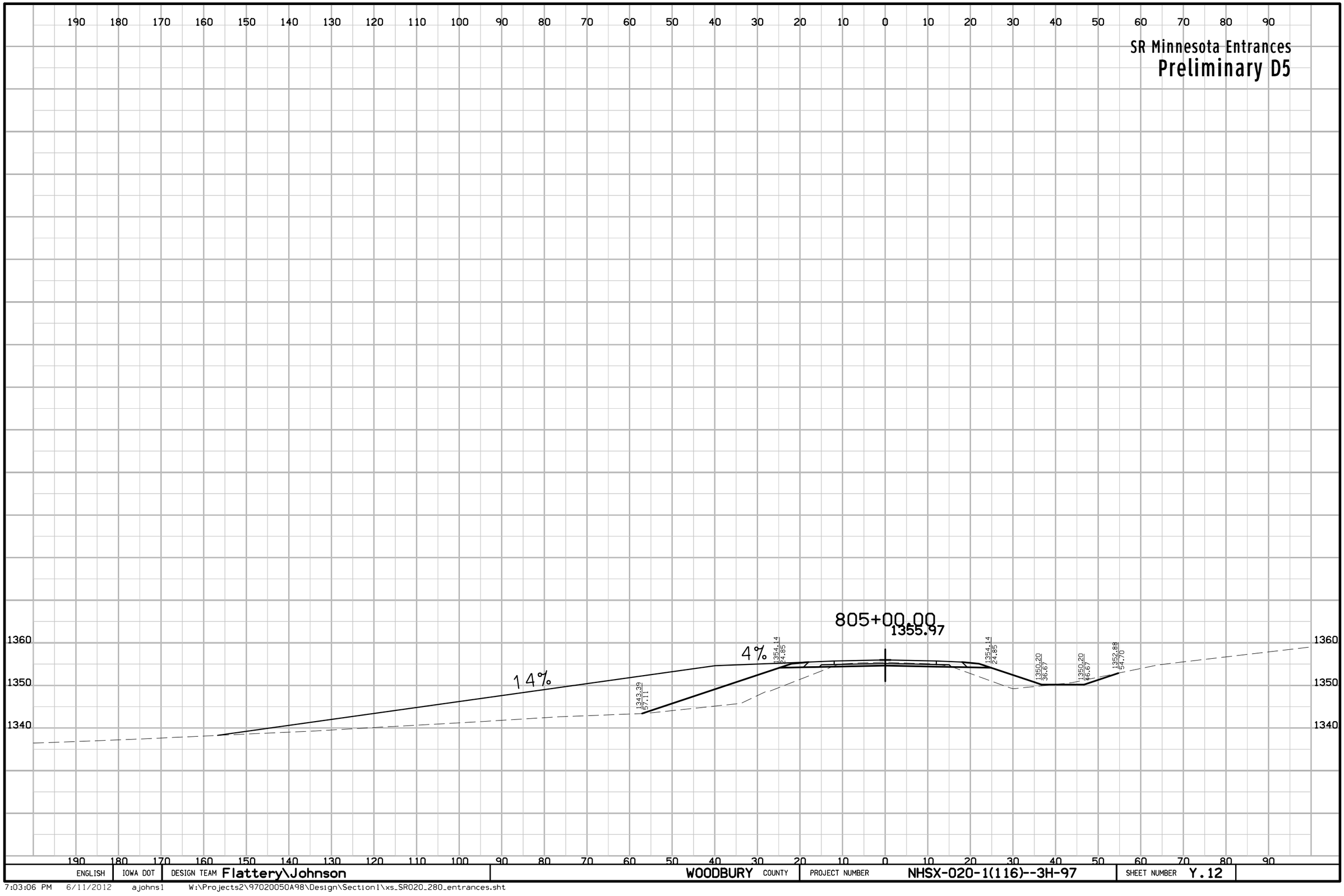
SR Minnesota Entrances

Preliminary D5



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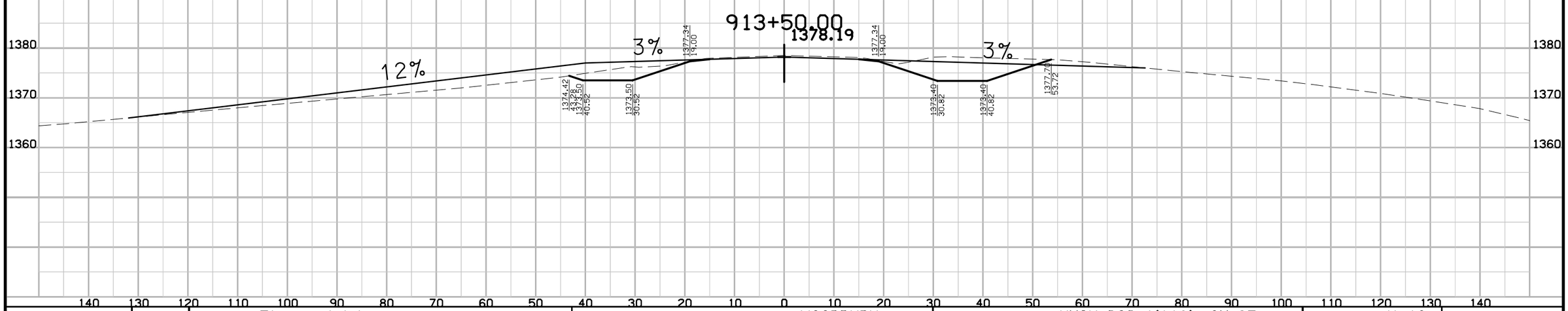
SR Mason Entrances

Preliminary D5



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