IOWA DEPARTMENT OF TRANSPORTATION

TO OFFICE:	Bridges and Structures	**DATE:**	January 19, 2012
ATTENTION:	D. R. Claman	**REF. NO.**	Woodbury County
		Proj. No.	NHSX-020-1(116)--3H-97
FROM:	Paul W. Flattery	PIN:	98-97-020-010-01
OFFICE:	Design		

SUBJECT: Culvert Submittal (D3) – REVISED 2

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 reason for this revision was due to the change of the alignment from approximately Sta. 10750+00 to Sta. 10834+00 to eliminate the impact to the 4F on the south side and to improve constructability.

The Project Directory is W:\Projects2\97020050A98\Design\Section1. No printed plan sheets or cross sections are included with this submittal. Items included in the electronic files with this submittal are tabulated on the "D3 Check List." The MicroStation and GEOPAK files, chains, and profiles are described in ("NHSX-020-1(116)--3H-97_Project Documentation.xls").

By copy of this letter, the Office of Location and Environment is requested to make any necessary reviews.

The Bridge submittal (B1) is scheduled for 2/15/2012. The Right of Way submittal (D5) is scheduled for 3/15/2012. The current letting date is 07/15/2014.

You may indicate your acceptance or request additional information by e-mail.

PWF:mk
Attach.

cc:

M. J. Kennerly	N. L. McDonald
D. E. Ohman	G. A. Novey
K. D. Nicholson	J. P. Rost
R. L. Stanley	L. C. Funnell
Judy Lensing	S. C. Marler
M. J. Sankey	T. Crouch
T. Gettings	E.C. Wright
D. A. Widick	B. Bradley
M. A. Swenson	J. W. Smith
J. McCollough	J. Vortherms
Tony Lazarowicz	Shane Tymkowicz
Doug Manley	

D3 Check List

Updated Field Exam Plans including:

Typicals reviewed for correct dimensions, and stationing.

__x__ Main Line
__x__ Side roads
_____ Accessways
_____ Interchange Ramps & Loops

D, E, F & K sheets updated for Field Exam changes.

__x__ Horizontal and vertical alignments, including stationing and tic marks.
__x__ Ditch bar graph and ditch grades
_____ Entrances and crossovers (future labeled as future)
__x__ Auxiliary and turn lanes including tapers.
_____ Final Interchange layouts and details
_____ Staging or Detour Runarounds.

Cross Sections (Design files)

__x__ Mainline
__x__ Side road
_____ Accessways
_____ Ramps and loops
_____ Detour runarounds or staging details
_____ Draw sections, at box culvert locations
_____ Skewed culvert locations (3 cross sections minimum, 1 on skew and 1 at each end of skewed culvert, perpendicular to centerline)
_____ Estimate of Stability berm and backslope benching locations
__x__ Auxiliary and turn lanes including tapers
_____ Entrances

Pipe culvert layouts with type, size and location of culvert from Field Exam; including station/elevations for centerline, hinge point, flow lines and length of the culverts.

__x__ A copy of the PDF of the plans has been created, printed and checked to make sure the plans print appropriately.

GRADING

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

WOODBURY Co.

LETTING DATE 7/15/2014

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 - 6	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
J Sheets	**Traffic Control and Staging Sheets**
* J.1	Stage 1 & 2
* J.2	Stage 3 & 4
* J.3	Final Stage
	* 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
www.iowaonecall.com
811 Know what's below. Call before you dig.

REVISIONS

TOTAL 71
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

D3 Submittal	10-03-2011
D5 Submittal	02-10-2012
Letting Date	07-15-2014

PRELIMINARY PLANS

Subject to change by final design.

D3 PLAN – Date: 10/03/2011

101-4
04-30-02

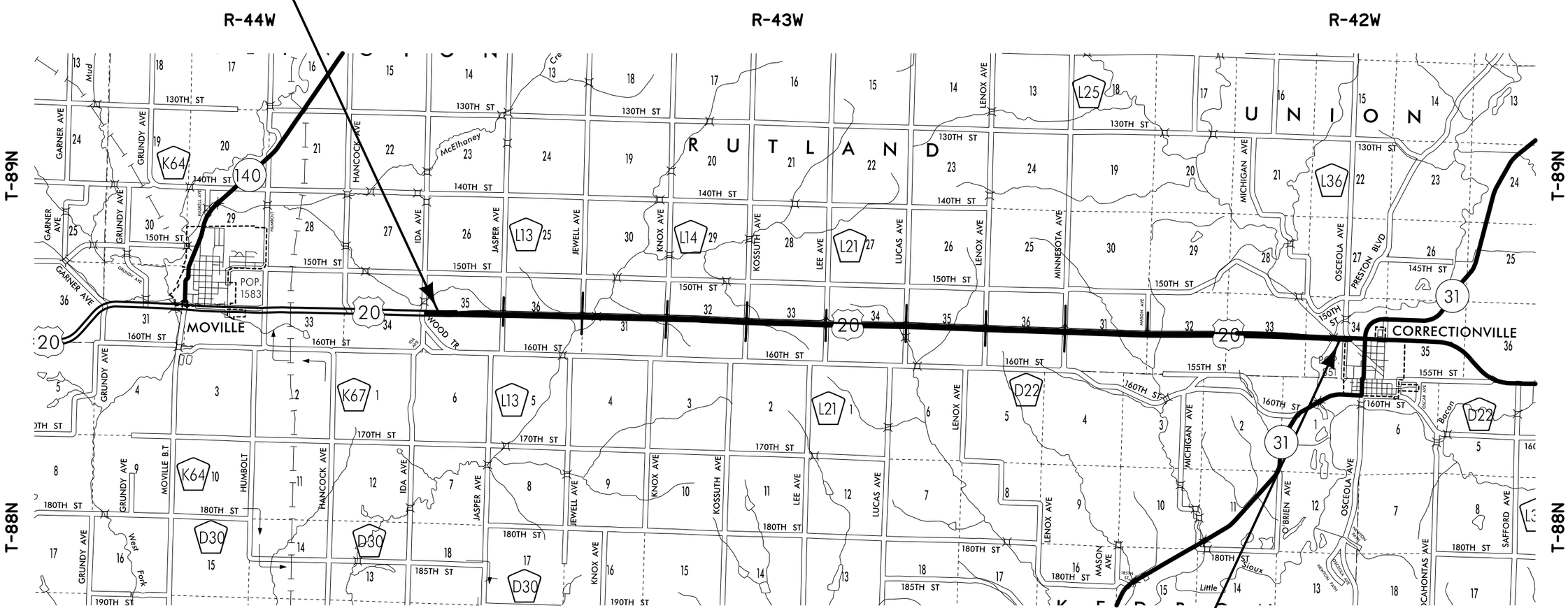
DESIGN DATA RURAL

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	--	

INDEX OF SEALS

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

STA. 10219+00.00
BEGIN PROJECT
MP 21.50



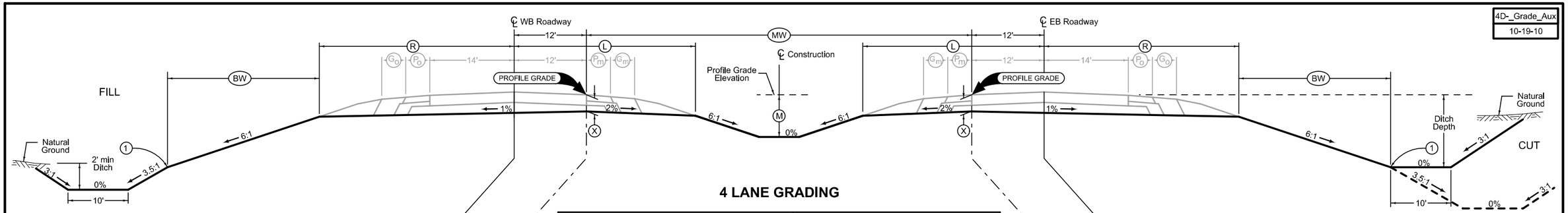
STA. 10820+00.00
END PROJECT
MP 32.50

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

3:34:45 PM 10/5/2011 aevans 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	10769+00.00	28.09	32.09	16.00	19.59	82.00	4.00
US 20	10769+00.00	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.

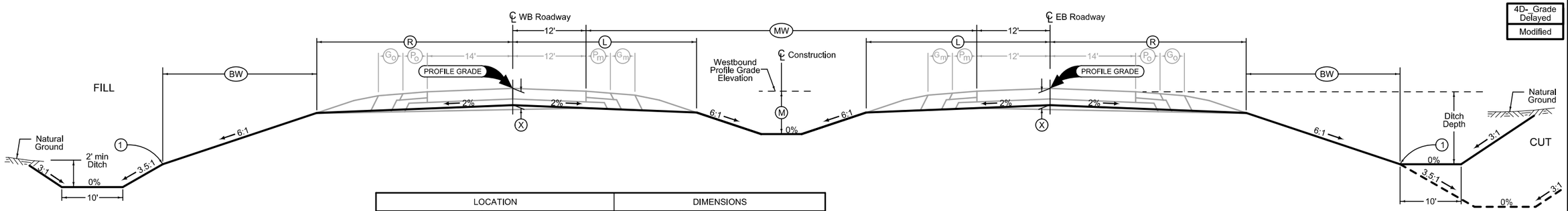
See Plan & Profile sheets and cross sections for additional details of ditches and backslopes.

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

US 20
Mainline

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

2:12:05 PM 10/5/2011 aevans W:\Projects2\97020050A98\Design\Section1\97020077B.sht



4D-_Grade Delayed
Modified

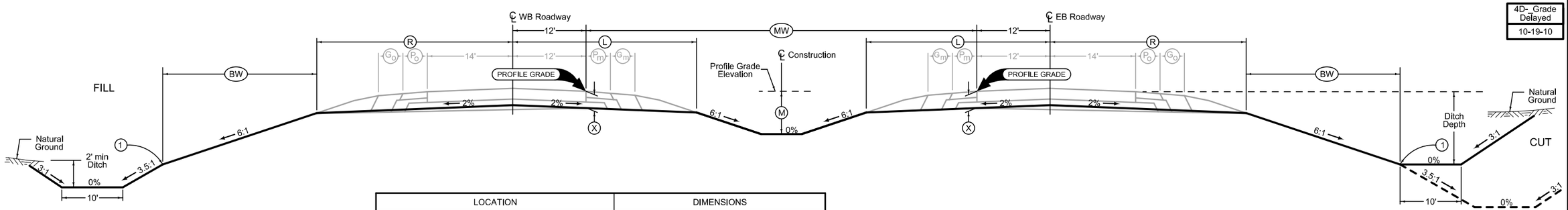
LOCATION			DIMENSIONS					
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches	(BW) Feet	(MW) Feet	(M) Feet
US 20 (WB)	20219+00.00	20253+00.32	28.09	31.82	16.00	19.86	60.00-82.00	4.00
US 20 (EB)	30219+00.00	30252+99.70	28.09	31.82	16.00	19.86	60.00-82.00	4.00

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	10769+00.00	28.09	31.82	16.00	19.86	82.00	4.00
US 20	10769+00.00	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.

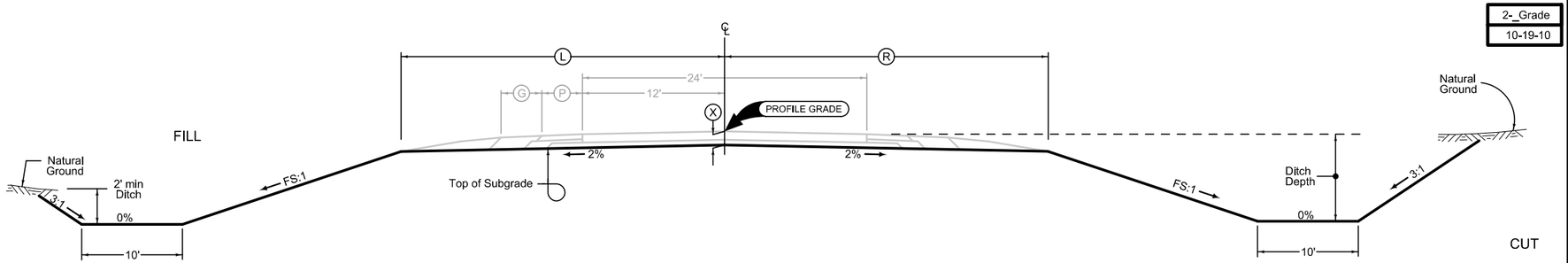
See Plan & Profiles sheets and cross sections for additional details of ditches and backslopes.

(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.

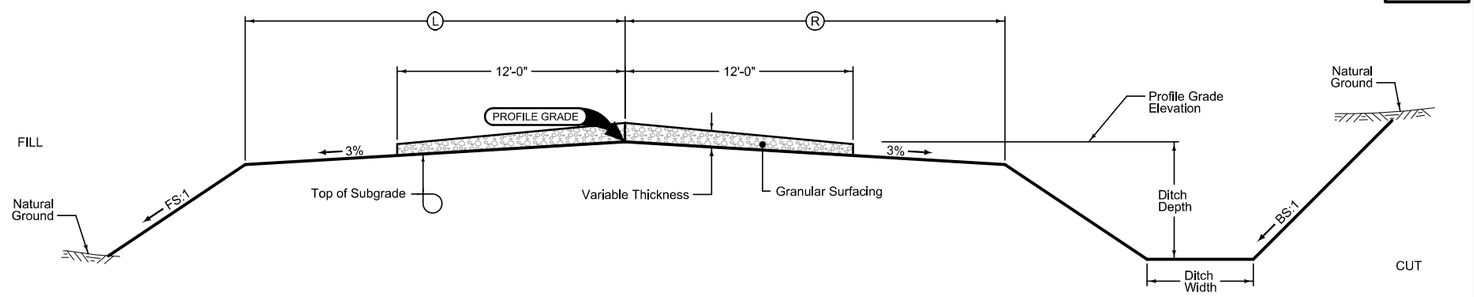
See plan & profile sheets and cross sections for additional details of ditches and backslopes.

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	220+25.00	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+00.00	15.00	15.00	3	3
Lucas Avenue	606+00.00	622+50.00	15.00	15.00	3	3
Lenox Avenue	707+50.00	718+25.00	15.00	15.00	3	3
Mason Avenue	900+34.39	913+75.00	15.00	15.00	3	3

2-GradeGran
10-19-10



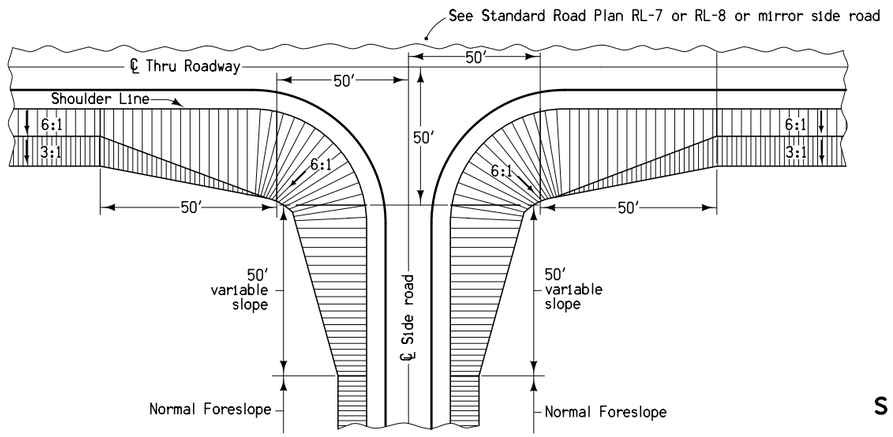
Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

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

GRADING AND GRANULAR SURFACING

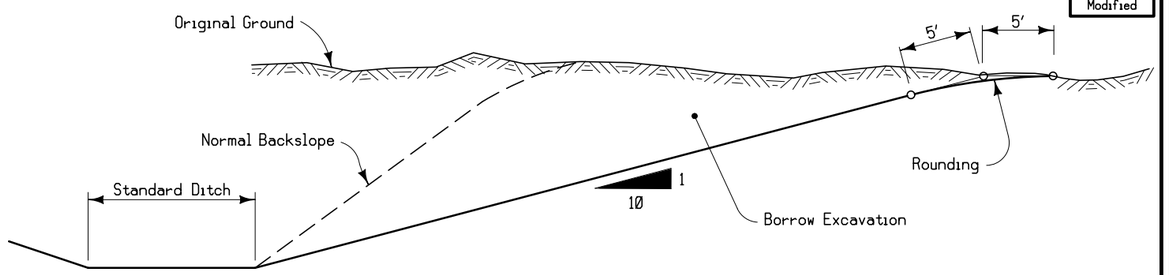
Side Roads

2117
04-15-08



SIDE ROAD GRADING (BARNROOF)

4109
Modified



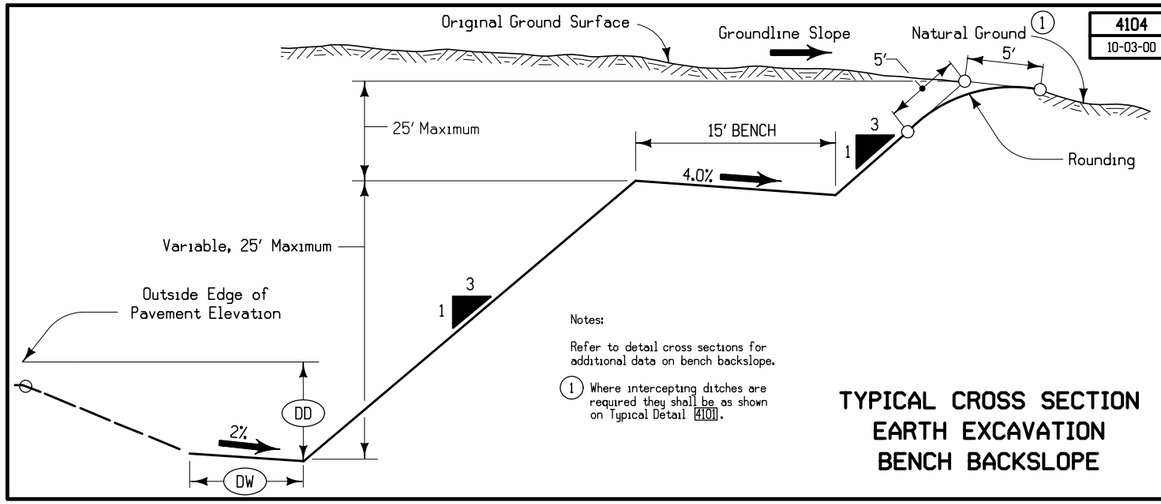
Notes:

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



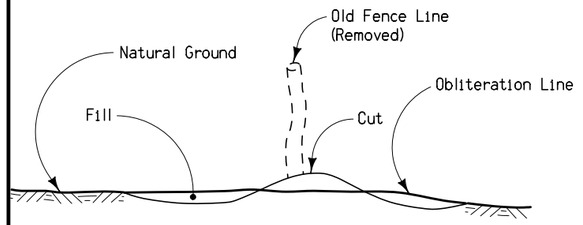
Notes:

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

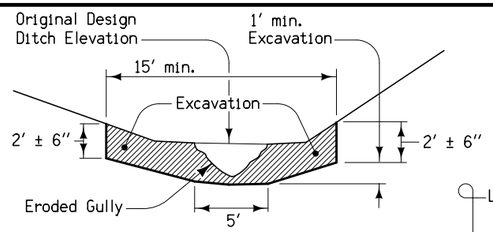


TYPICAL DETAILS FOR OBLITERATION OF OLD FENCE RIDGE

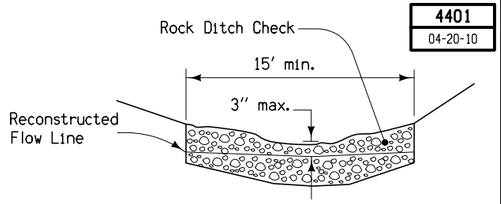
Notes:

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

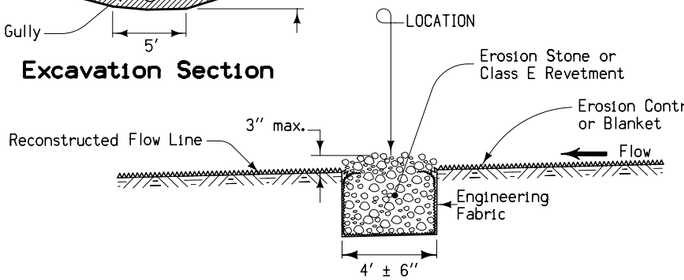
4401
04-20-10



Excavation Section



Ditch Check Section

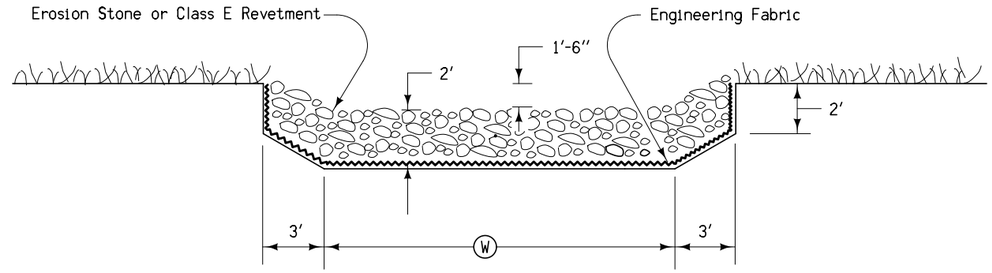


Longitudinal Section at Centerline of Ditch

Refer to Tabulation 100-23 for additional information.

ROCK DITCH CHECK

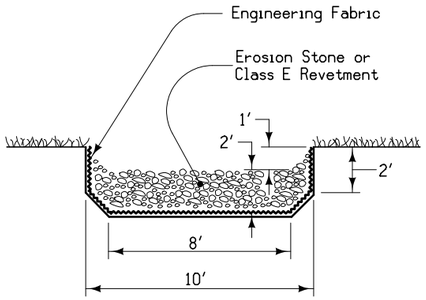
4402
04-20-10



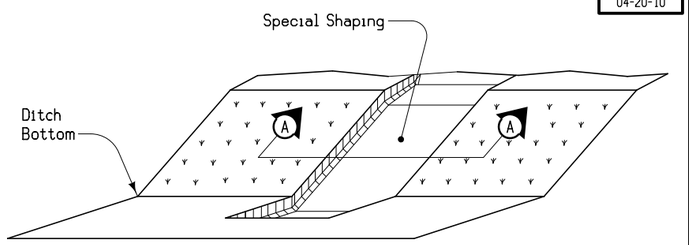
Refer to Tabulation 100-23 for additional information.

ROCK DITCH

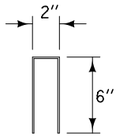
4403
04-20-10



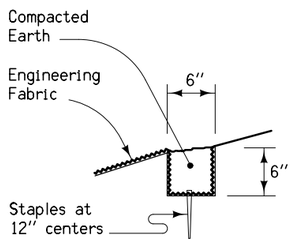
Section A-A



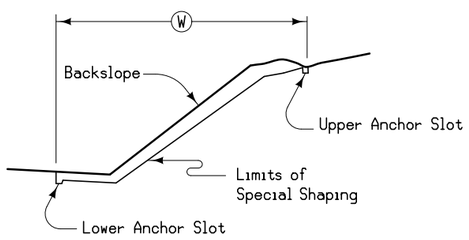
Isometric View



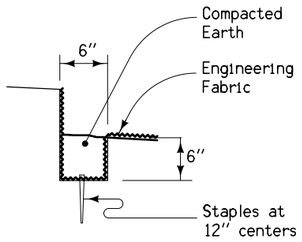
Staple
(No. 11 wire)



Upper Anchor Slot



Typical Section

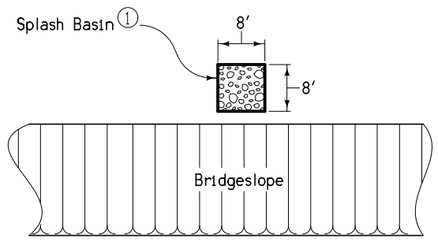


Lower Anchor Slot

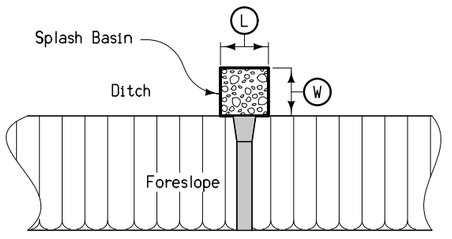
ROCK FLUME

Refer to Tabulation 100-23 for additional information.

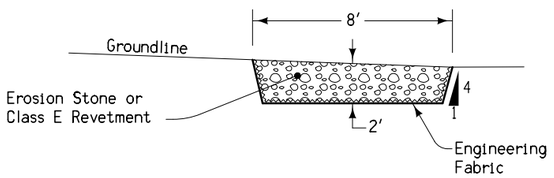
4404
04-20-10



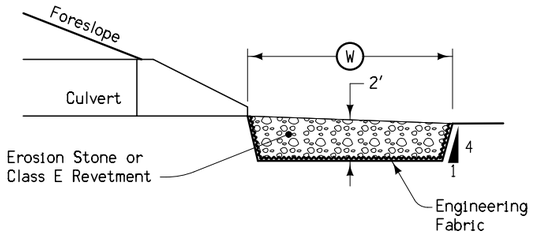
Splash Basin Under Bridge Drain
Plan View



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.

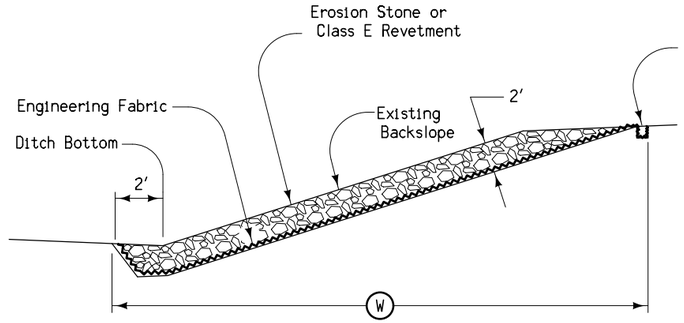
Refer to Tabulation 100-23 for additional information.

ROCK SPLASH BASIN

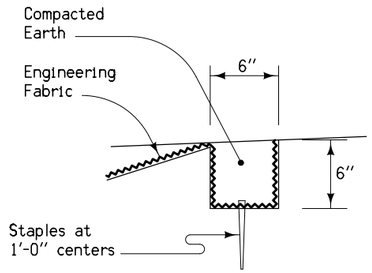
ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER B.5

2:12:07 PM 10/5/2011 aevans W:\Projects2\97020050A98\Design\Section1\97020077B.sht

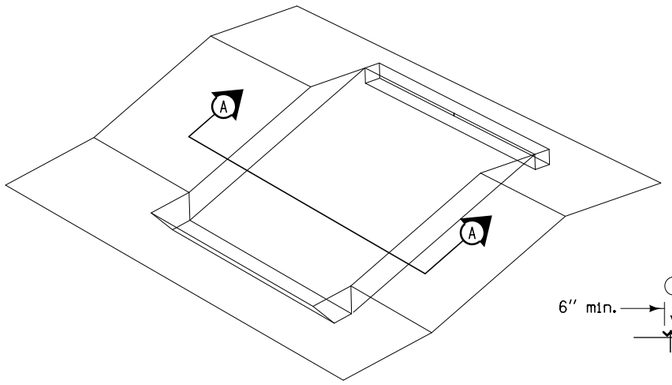
4405
04-20-10



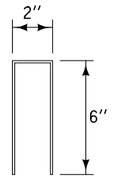
Typical Section



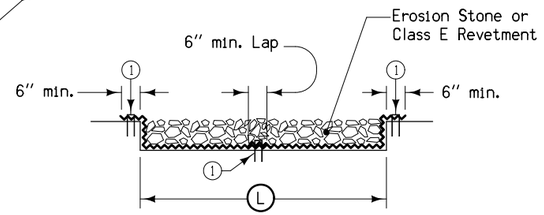
Anchor Slot



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
- 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

2:37:46 PM 10/4/2011 aevans W:\Projects2\97020050A98\Design\Section1\97020077_lgd.sht

PROPOSED CULVERT CONCEPTS

SAME LOCATION AND LEAVE MEDIAN OPEN
OR
NEW LOCATION AND LEAVE MEDIAN OPEN
OR
SAME LOCATION AND TIE TO OLD
OR
NEW LOCATION AND TEMP PIPE EXTENSION
OR
JACK AND LAY

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

STA. 20219+00.00 (WB)
BEGIN PROJECT

PC Sta 20220+00.00

OUTLET FLOW RAISED

PC Sta 223+64.50

PT Sta 229+64.50

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

PRC Sta 20236+26.27

PT Sta 20228+13.84

IDA AVE

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

20221+60.12 WBL
24" RCP
STAGE 1 REMOVE 116' OF OUTLET AND REPLACE WITH 134' + AP
STAGE 2 EXTEND RT 106' + AP

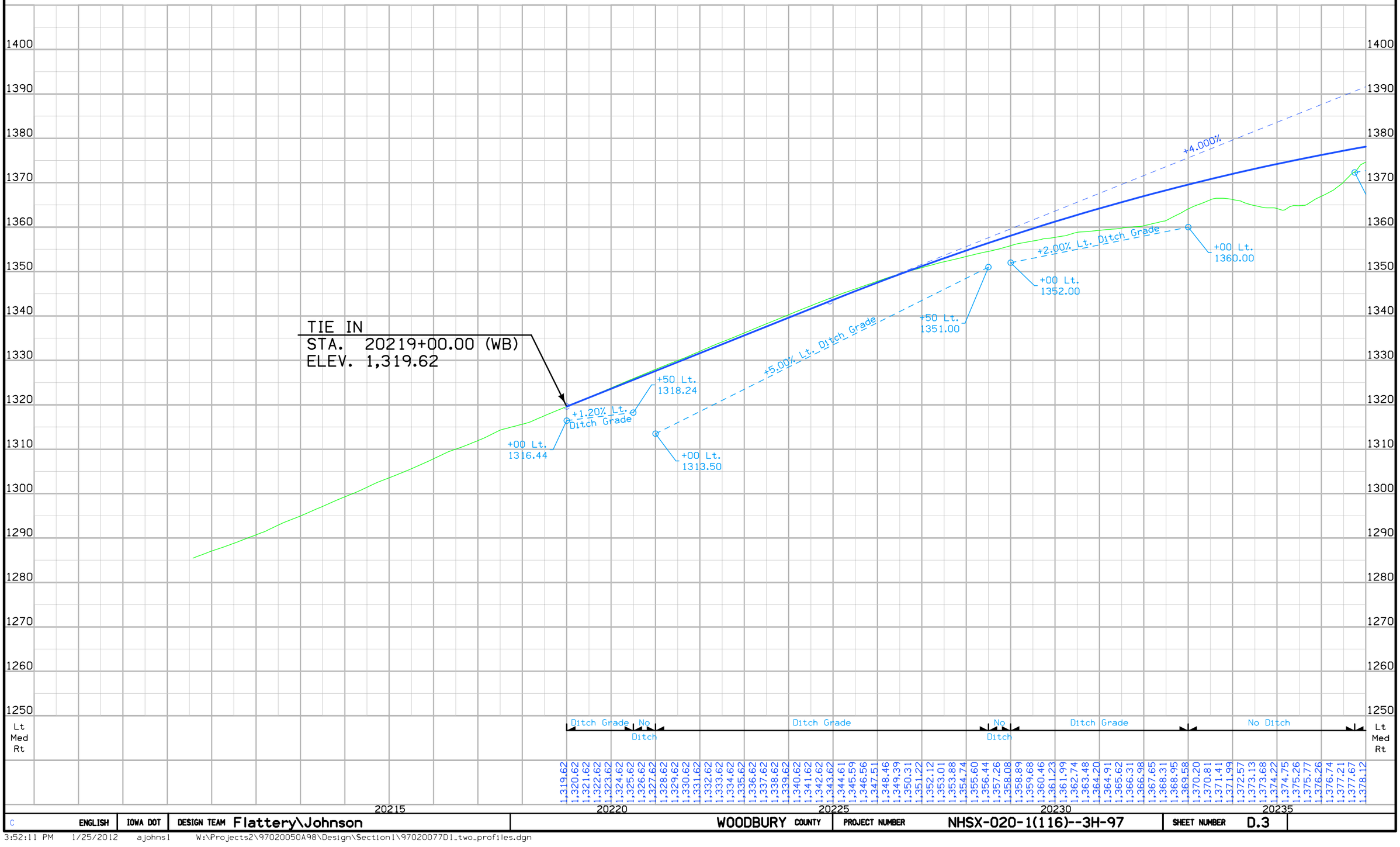
D.3 SHEET DOESN'T SHOW RIGHT DG

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

3:52:10 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



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

3:52:11 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

20240
20245
20250

Curve Data WB
Δ = 5° 32' 59.41" (RT)
T = 775.51
L = 1,549.81
R = 16,000.00
E = 18.78

PI Sta 20244+01.78

240
245
250

TP

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

I CHANGED SD RD LT DITCH

I LOWERED ML DITCH GRADE

18" X 24.9 Conc Pipe

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

PI Sta 126+30.81

PI Sta 124+82.55

125

24" X 68.4 C.M.P.

24" X 34.4 C.M.P.

PI Sta 120+14.12

120

12" X 38.0 C.M.P.

Unable to locate entrance pipe due to construction

PI Sta 118+08.78

APPROX. SECT. LINE

65

I CHANGED RT DITCH

STAGE 1 LAY
LEAVE MEDIAN OPEN
STAGE 2 REMOVE OLD
OR P&A

STAGE 1 LAY
LEAVE MEDIAN OPEN
STAGE 2 P&A

PI Sta 115+76.44

115

JASPER AVE

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

OLD DES# 756

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

108+65
36" UNCL
H=0.55

PI Sta 108+93.48

0 100
FEET

WESTBOUND

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

3:52:13 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.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

	Ditch Grade	No Ditch	5' Ditch	No Ditch
Lt				
Rt				

1,378.55 1,378.98 1,379.39 1,379.79 1,380.18 1,380.56 1,380.92 1,381.27 1,381.62 1,381.95 1,382.27 1,382.58 1,382.87 1,383.16 1,383.43 1,383.69 1,383.94 1,384.18 1,384.41 1,384.62 1,384.83 1,385.02 1,385.20 1,385.37 1,385.52 1,385.67 1,385.80 1,385.93 1,386.04 1,386.14 1,386.23 1,386.30 1,386.37 1,386.42 1,386.46 1,386.49 1,386.51 1,386.52 1,386.51 1,386.50 1,386.47 1,386.43 1,386.38 1,386.32 1,386.24 1,386.16 1,386.06 1,385.95 1,385.83 1,385.70 1,385.55 1,385.40 1,385.23 1,385.05 1,384.86 1,384.66 1,384.45 1,384.22 1,383.99 1,383.74 1,383.49 1,383.24 1,382.99 1,382.74

20240 20245 20250 20255 20260 20265

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

3:52:14 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

PROPOSED CULVERT CONCEPTS

SAME LOCATION AND LEAVE MEDIAN OPEN
OR
NEW LOCATION AND LEAVE MEDIAN OPEN
OR
SAME LOCATION AND TIE TO OLD
OR
NEW LOCATION AND TEMP PIPE EXTENSION
OR
JACK AND LAY

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

OUTLET FLOW RAISED

POT Sta 210+57.92

IDA AVE

POT Sta 30210+57.92

POT Sta 30220+00.00

Sta. 221+60.58
28" X 205.2 Conc Pipe
DA. = 3 Ac - H

20221+60.12 WBL
24" RCP
STAGE 1 REMOVE 116' OF OUTLET AND REPLACE WITH 134' + AP
STAGE 2 EXTEND RT 106' + AP

D.3 SHEET DOESN'T SHOW RIGHT DG

POT Sta 223+64.50

POT Sta 226+64.50

PI Sta 30227+54.57

POT Sta 229+64.50

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

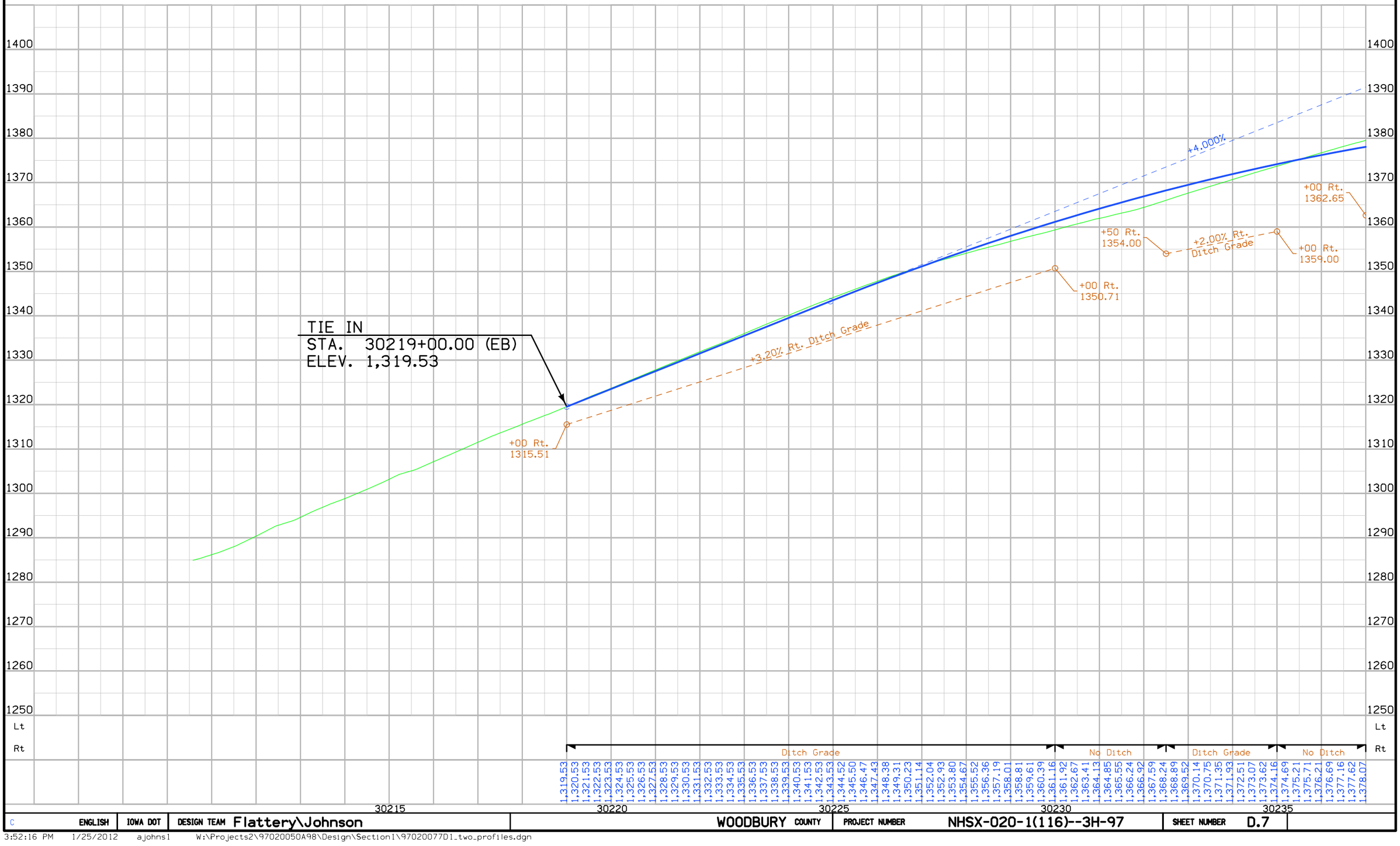
215 220 225 230 235
30215 30220 30230 30235

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

3:52:15 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



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

3:52:16 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

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

Unable to locate entrance pipe due to construction

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

Pl Sta 126+30.81
Pl Sta 124+82.55
Pl Sta 124+14.12
Pl Sta 118+88.78
Pl Sta 115+76.44
Pl Sta 108+93.48
Pt Sta 302+39.59

125
120
115
100

24" X 68.4 C.M.P.
24" X 34.4 C.M.P.
12" X 38.0 C.M.P.
18" X 24.9 Conc Pipe

I LOWERED ML DITCH GRADE
I CHANGED SD RD LT DITCH
I CHANGED RT DITCH

STAGE 1 LAY
LEAVE MEDIAN OPEN
STAGE 2 REMOVE OLD
OR P&A

STAGE 1 LAY
LEAVE MEDIAN OPEN
STAGE 2 P&A

STAGE 1 DAC
STAGE 2 REMOVE

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

OLD DESIGN 756

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

108+65
36" UNCL
H=0.55

JASPER AVE

APPROX SEC LINE

240
245
250

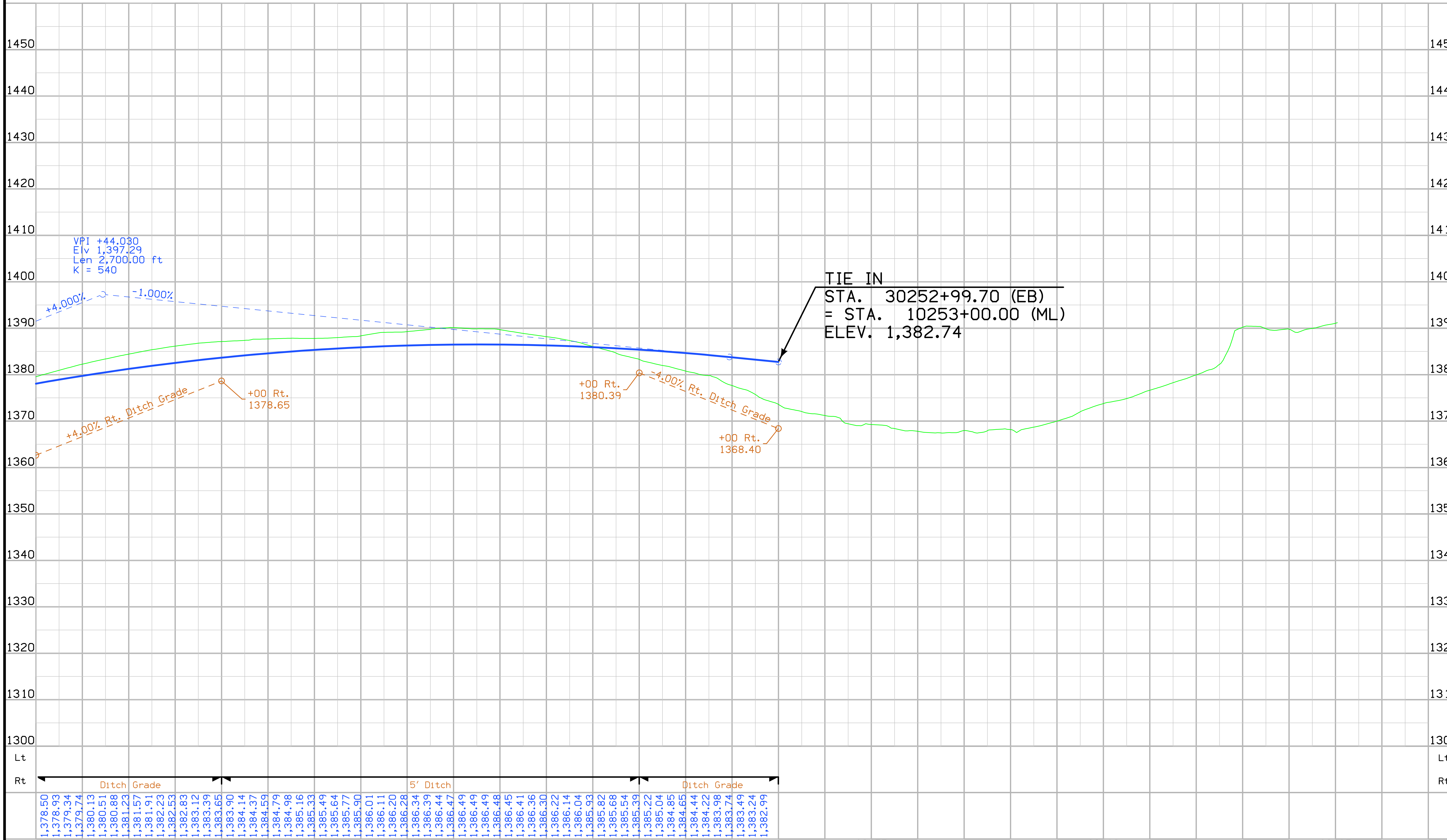
30240
30245
30250

0 FEET 100

EASTBOUND

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

3:52:18 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



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

3:52:19 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.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

24" X 68.4 C.M.P.

24" X 34.4 C.M.P.

12" X 38.0 C.M.P.

18" 24.9 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

108+65
36" UNCL
H=0.55

OLD DES# 756

I CHANGED R.T. DITCH

I CHANGED SD RD LT DITCH

I LOWERED ML DITCH GRADE

STAGE 1 LAY
LEAVE MEDIAN OPEN
STAGE 2 REMOVE OLD
OR P&A

STAGE 1 LAY
LEAVE MEDIAN OPEN
STAGE 2 P&A

STAGE 1 LAC
STAGE 2 REMOVE

JASPER AVE

APPROX. ORIG. ℄ INT

Pl Sta 126+30.81

Pl Sta 124+82.55

Pl Sta 120+14.12

Pl Sta 118+88.79

Pl Sta 115+76.44

Pl Sta 108+93.48

125

120

115

110

105

240 10240 10245 10250 10255 10260 10265

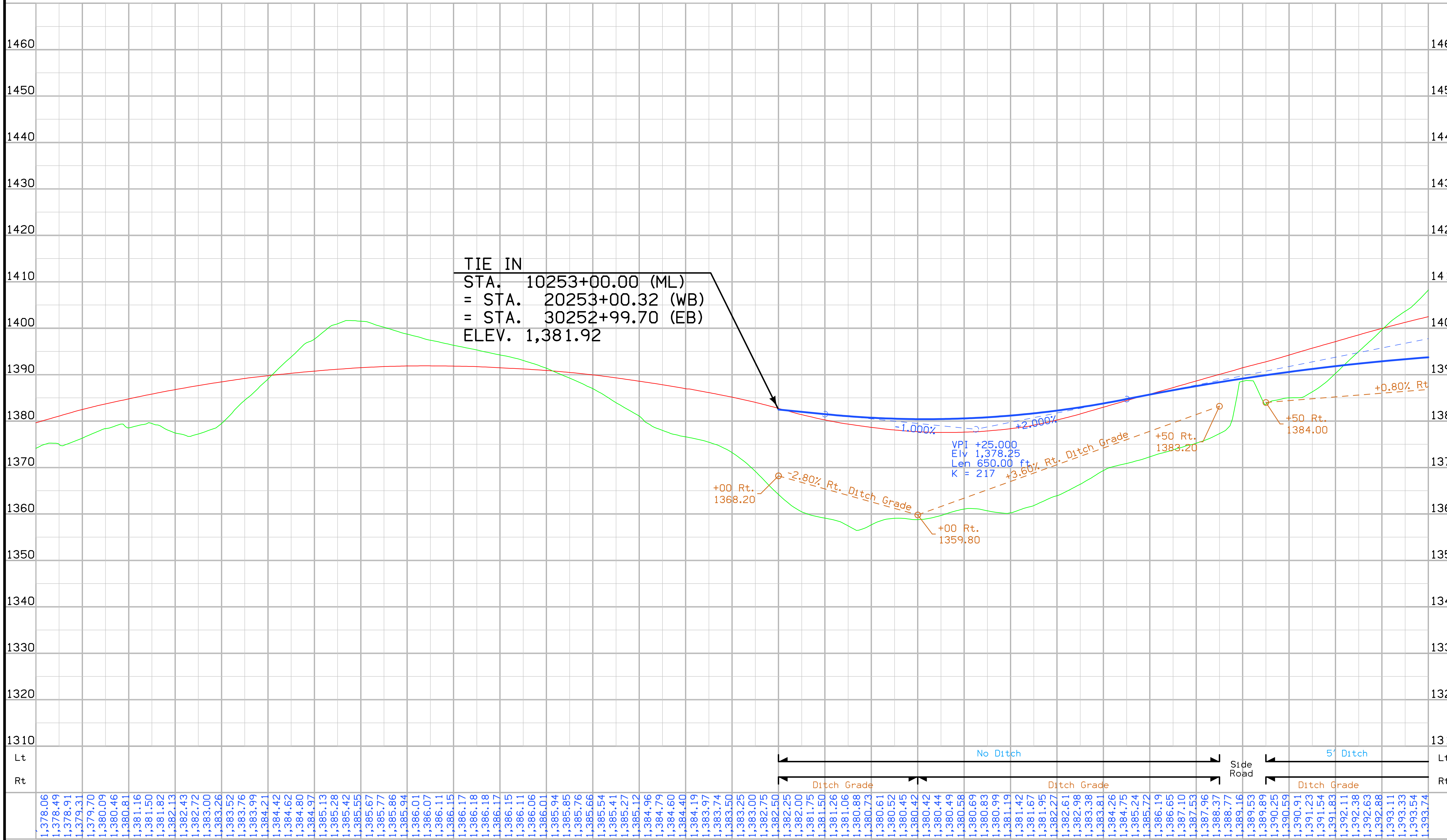
Pl Sta 10243+14.78

Pl Sta 10250+00.47

0 100
FEET

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

3:52:20 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



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

3:52:21 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.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

SNOW BORROW

10270 10275 10280 10285 10290 10295

Pipe

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

MAKE 10274+25 THE DITCH CREST ON LT

PC Sta 10274+58.59

PT Sta 10284+08.81

PC Sta 10269+08.81

PC Sta 271+54.22

PT Sta 277+54.22

STAGE 1 LAY
LEAVE MEDIAN OPEN
STAGE 2 EXTEND
& REMOVE OLD PIPE

10279+00
24" RCP

STAGE 1 DAC
STAGE 2 REMOVE

P & A

STAGE 1 EXTEND
STAGE 2 REMOVE & P

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

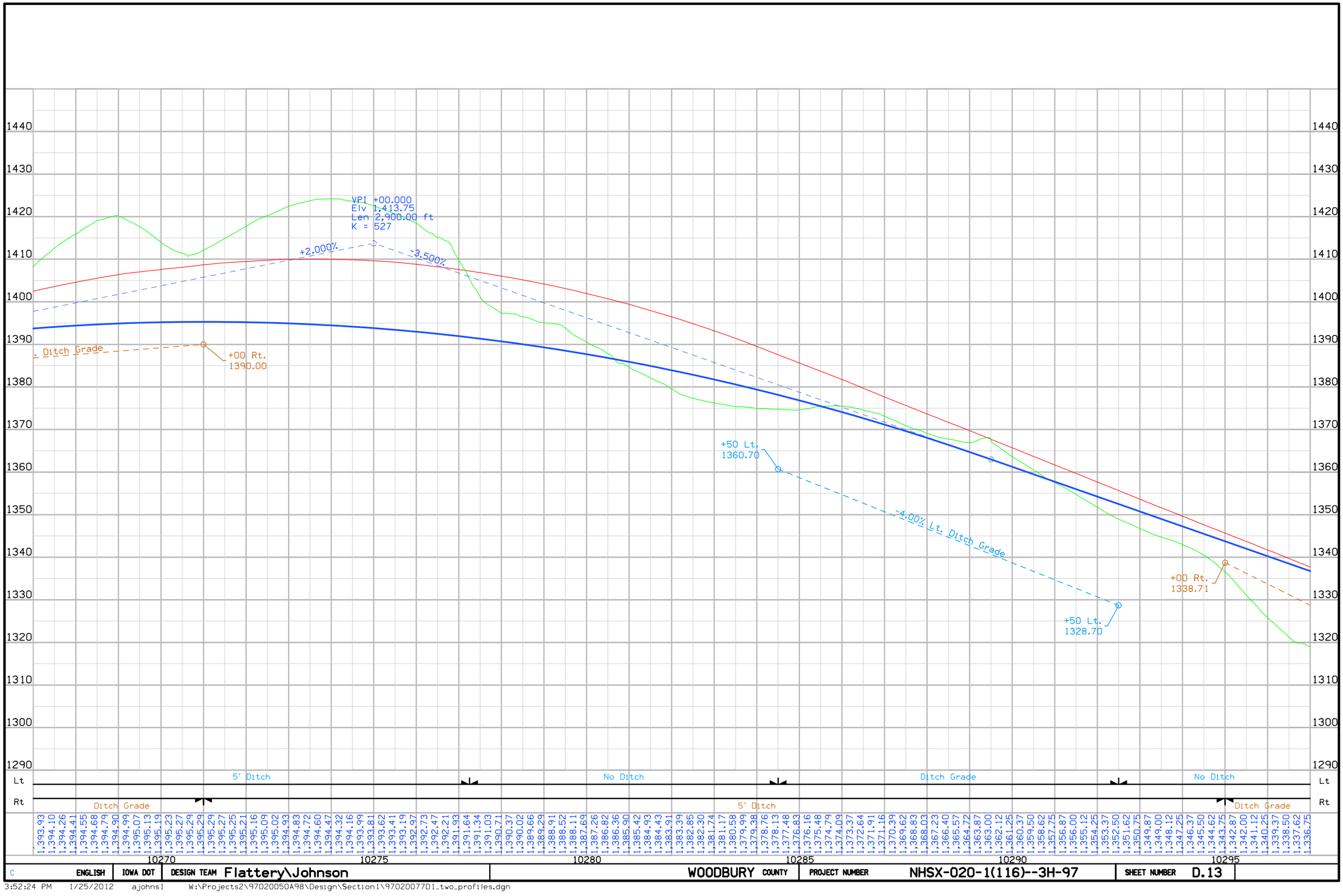
Sta. 279+10.99
24" X 77.8 Conc Pipe
D.A. = 1 Ac - H

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

0 FEET 100

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

3:52:23 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



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

3:52:24 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

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

DTCH LT 10301+50 1286.70

NOT MUCH DIFF FROM YOUR STUFF

Sta. 313+62.22, 810.12 Lt.
18" X 22.0 C.M.P.
D.A. = 2 Ac - H

24" X 47.6 C.M.P.

12" X 24.6 Plastic

18" X 31.0 C.M.P.

18" X 28.0 C.M.P.

Sta. 305+75.15.7 Lt.
15" X Beehive Intake
D.A. = Part of 305 ac H

10300 10305 10310 10315 10320 10325

PI Sta 220+42.04
220

PI Sta 216+85.65

PI Sta 213+13.92
215

PI Sta 212+14.94

PI Sta 211+09.42

PI Sta 210+28.84
210

PI Sta 208+58.83

PI Sta 206+41.11
205

PI Sta 204+97.76

PI Sta 203+24.99

PRIVATE DIKE IMPEDING WATERWAY

0.08 ac
PEM
Wetland

STAGE 1 EXTEND
STAGE 2 REMOVE & P&A

STAGE 1 EXTEND RCB
STAGE 2 REMOVE OLD
& EXTEND

CLEAN OUT DRAW TO
ALLOW POSITIVE FLOW

STAGE 1 RCB DESIGN
LEAVE MEDIAN OPEN
STAGE 2 REMOVE OLD
& EXTEND

+99.75
5.5 Conc Pipe
Ac - H

OLD DES# 856
Sta. 304+79.77
Skew 45°
8.0 X 8.0 X 176.4 RCB
D.A. = 353 Ac - H
284 AC VH-H

OLD DES# 956
Sta. 313+99.80
8.0 X 5.0 X 84.2 RCB
D.A. = 70 Ac - H
158

24" X 20.2 C.M.P.

APPROX. SEC. LINE

JEWELL AVE

0 100
FEET

Dave M. see mee if you can see th

STA. 10325+00
163'-10 X 40'-0 PPCB BRIDGE WB AND EB
OVER WOLF CREEK
0° SKEW
TYPE B BEAMS
INTEGRAL ABUTMENTS
51'-7 END SPANS AND 60'-8 INTERIOR SPAN
3:1 BERM SLOPES
RIP RAP ON BERMS TO Q50 ELEVATION
ENCASED PILE BENT PIERS PROPOSED

DA=13.5 SQ. MI.
Q50=7,150 CFS
STAGE=1,281.53
BACKWATER=0.16 FT.
FREEBOARD=9.2 FT.
BRIDGE VELOCITY=7.3 FPS

Q100=8,961 CFS
STAGE=1,282.56
BACKWATER=0.31 FT.

ZONE A FLOOD HAZARD AREA

PROPOSED BRIDGES MEET IDOT CRITERIA FOR 50 YEAR EVENT

Sta. 325+00
125' X 28' Continious C
D.A. = 8660 Ac H

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

3:52:25 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

3:52:27 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

10330 10335 10340 10345 10350 10355

30 35 40 45 50 55

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

see this note

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

STAGE 1 EXTEND
STAGE 2 INLET DRAINAGE
CARRIED BACK HERE. REMOVE
OLD PIPE AND P&A

STAGE 1 RCB DESIGN
LEAVE MEDIAN OPEN
STAGE 2 REMOVE OLD
& EXTEND

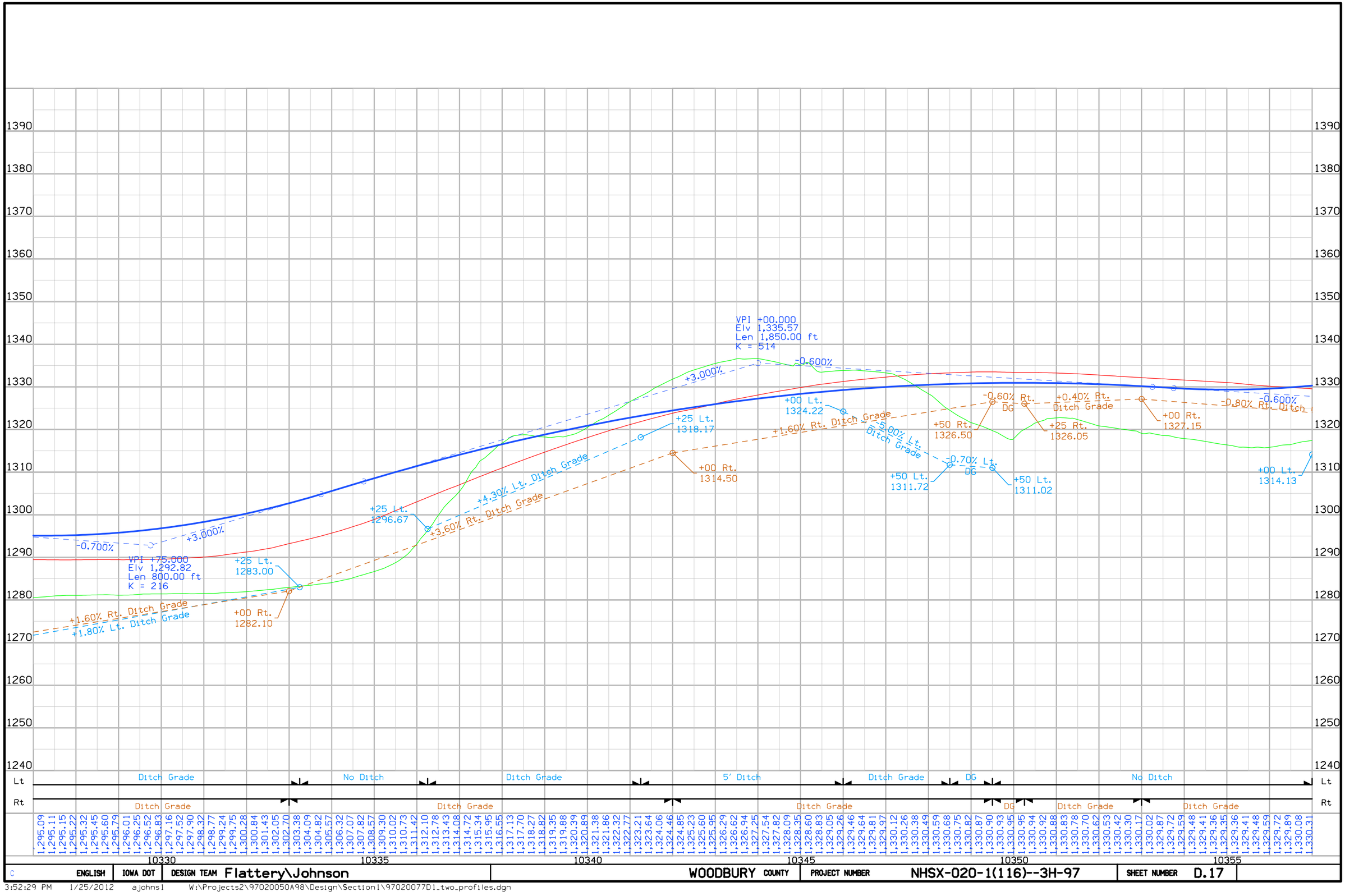
Sta. 350+20.18
30" X 108.0 Conc Pipe
D.A. = 9 Ac. +H

ontinious Concrete Slab Bridge
Ac H

0 FEET 100

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

3:52:28 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



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

3:52:29 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

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

Pl Sta 322+93.45

Pl Sta 320+76.90

320

Pl Sta 319+36.60

Pl Sta 317+50.21

Sta. 359+10.79, 96.56 Lt.
18" Beehive Intake
D.A. = Part of 236 Ac - GR - H

Sta. 371+01.31
24" X 96.0 Conc Pipe
D.A. = 2 Ac - H

Sta. 372+01.68
42" X 115.5 Conc Pipe
D.A. = 18 Ac - H

ELIMINATED 2 PIPES AND CHANGED YOUR DITCH & NEW PIPE UNDER SD RD

IF WE CAN KEEP THE WATER IN OUR LEFT DITCH ALL THE WAY TO THE SIDE CULVERT BACK AND KEEP IN OUR DITCH TO STA 10356 (+OR-) THESE 2 PIPES BE UAC STAGE I AND REMOVED IN STAGE 2

10360 10365 10370 10375 10380 10385

60 60 60 75 80 80

315

Pl Sta 314+67.67

Pl Sta 314+29.69

0.05 ac
PEM
Wetland

APPROACH SLOPE

Pl Sta 313+12.37

Pl Sta 312+54.55

FO

Pl Sta 386+73.71

FO Sta 10384+77.71

STAGE I RCB DESIGN
LEAVE MEDIAN OPEN
STAGE 2 REMOVE OLD
& EXTEND

CHANGED RT DITCH

FLOWS NORTH TO SOUTH, CARRY INLET (LEFT) DRAINAGE BACK

STAGE 1 UAC
STAGE 2 REMOVE

4.31 ac
PEM
Wetland

24" X 42.8 Conc Pipe

WH

AST

310

Pl Sta 309+08.09

OLD DES# 1056
Sta. 359+59.11
10.0 X 6.0 X 54.5 RCB
D.A. = 235 Ac - GR - H
OK DA

OLD DES# 7556
Sta. 364+00.07
4.0 X 5.5 X 54.5 RCB STOCK PASS
D.A. = 1 Ac - H

WE WILL ELIMINATE THESE TWO PIPES WHEN MOVE TRAFFIC TO WBL'S BUT BE USED FOR TEMP MEDIAN DRAINAGE AND REMOVE DITCH GRADE AT 10386 RT AND DITCH BRING WATER TO WEST AND AROUND RADII SD RD SOUTH OR LEAVE YOUR DTCH GRADE THERE AND THE WATER FROM THE EAS CONTINUE WHERE IT USED TO GO (10385+50 TO SOUTH) AND WE WOULD BE PERPETUATING THE DRAINAGE WHICH MAY BE THE BEST RECOURSE

SIDE ROAD
Sta. 371+48.83 389.14' RT
8.0 X 4.0 X 30.0 RCB
D.A. = 142 Ac - H

Sta. 382+60.28
24" X 78.5 Conc Pipe
D.A. = 2 Ac - R

Sta. 385+61.49
24" X 71.7 Conc Pipe
D.A. = 3 Ac - H

Pl Sta 307+96.42

Pl Sta 307+48.98

KNOX AVE

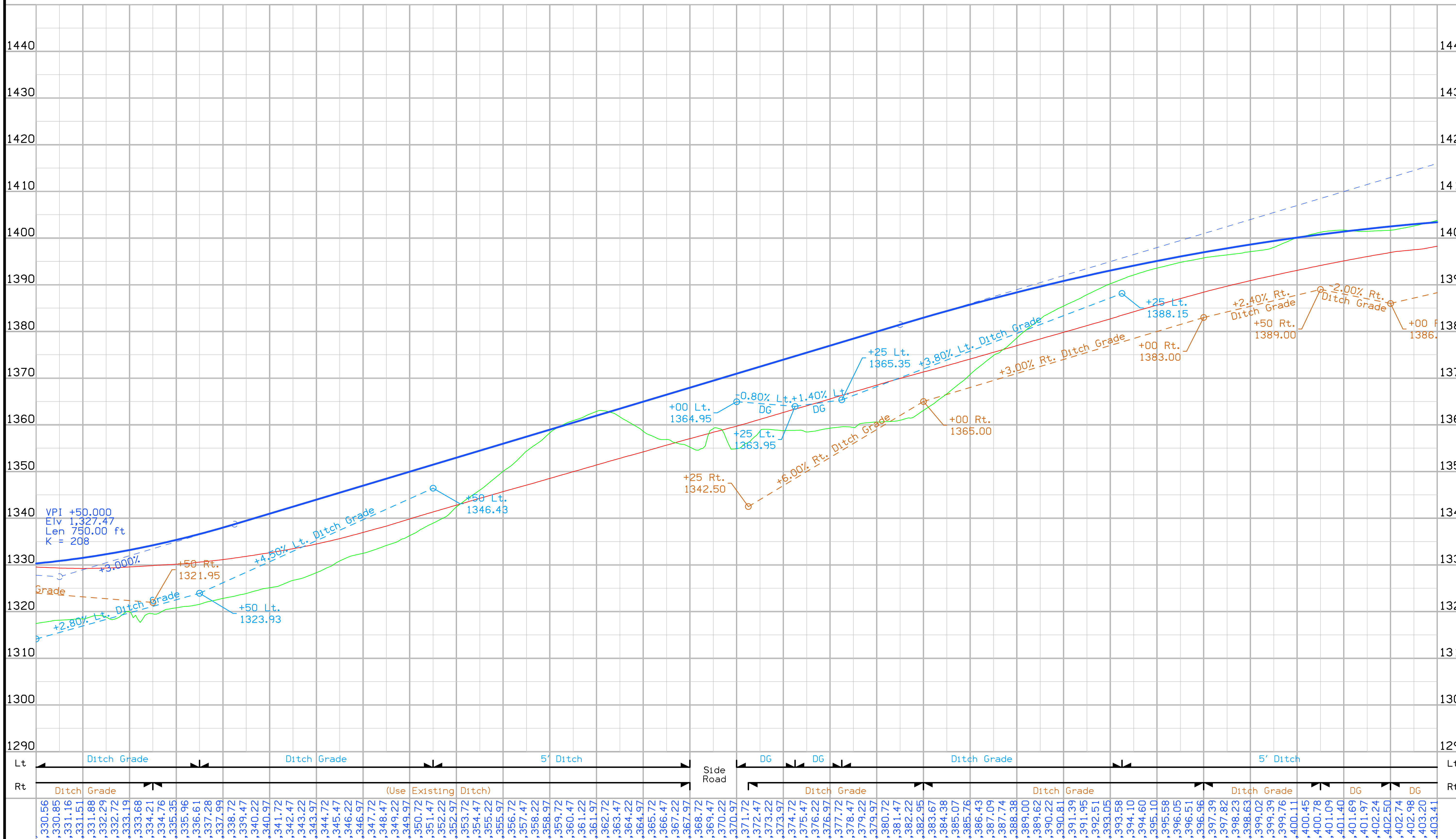
Pl Sta 305+40.03

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.18

3:52:31 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



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

3:52:32 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.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

Pot Sta 10393.93

Pot Sta 10416493.12

TO THE SIDE ROAD
HESE 2 PIPES CAN

LOWERED INLET FLOW
SO A DIKE WOULD WORK

STAGE 1 RCB DESIGN
EXTEND OLD RCB
STAGE 2 REMOVE OLD
& EXTEND

Pot Sta 386+73.71

Pot Sta 393+69.66

Pot Sta 10395+78.08

STAGE 1 LAY
LEAVE MEDIAN OPEN
STAGE 2 EXTEND
& REMOVE OLD PIPE

STAGE 1 UAC
STAGE 2 REMOVE

0.17 ac
PEM
Wetland

HAS LOWER FLOWLINE BUT ENDWALL
AT 1350.50 IS DITCH ELEV

TO WBL'S BUT MAY
GRADE
ND RADII SD RD TO
FROM THE EAST WILL
WE WOULD BE
COURSE

1.49
Conc Pipe
c - H

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

OLD DES# 1156

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

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.20

3:52:33 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

3:52:34 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

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

Curve Data
Δ = 1° 24' 25.06" (LT)
T = 550.08
L = 1,100.11
R = 44,800.00
E = 3.38
Curve Data
Δ = 1° 24' 25.06" (LT)
T = 508.18
L = 1,016.33
R = 28,847.58
E = 2.17

PI Sta 421+08.13

PI Sta 417+60.17

PI Sta 415+29.08

PI Sta 413+13.34

PI Sta 412+01.24

PI Sta 411+25.16

PI Sta 408+37.50

PI Sta 406+02.80

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

Sta. 424+01.01
24" X 71.4 Conc Pipe
D.A. = 1 Ac - R

DITCH OUTLET
12x10

WE MAY REPLACE THE FLUME HERE

STAGE 1 RCB DESIGN
LEAVE MEDIAN OPEN
STAGE 2 REMOVE OLD & EXTEND

STAGE 1 UAC
STAGE 2 REMOVE

STAGE 1 UAC
STAGE 2 REMOVE

RADIUS RETURNS???

THESE PIPES DITCH MEDIAN AHEAD AND BACK THEN REMOVE LATER

RADIUS RETURNS???

THIS PIPE CAN BE ELIMINATE
DITHCING THE INLET ON LEFT
WAY BACK TO THE RCB AT 10
IT ON OUR ROW AND IT ENDS
PLACE. I CAN SEE WHY YOU H
ON RIGHT AT 10450+25 CUZ
THIS (200 acres) WATER NEE
DRAW AT 10450+- RT.

0.64 ac
PEM
Wetland

OLD DES# 1256
Sta. 435+10.28 HAS FLUME
Skew 30°
12.0 X 10.0 X 100.1 RCB
D.A. = 615 Ac - R-H

KOSSUTH AVE

0 FEET 100

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

3:52:36 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

3:52:37 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

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

HAD TO LOWER LEFT DITCH SO Q50 WOULD NOT OVERTOP DITCH AND HEAD WEST ALSO DO NOT DITCH AT 10455+00 TO 10455+75 AS YOU HAVE DONE TO ACT AS DIKE.

CAN BE ELIMINATED CUZ NOW THE INLET ON LEFT "ALL THE TO THE RCB AT 10435 KEEPING R ROW AND IT ENDS UP THE SAME AN SEE WHY YOU HAVE DITCH GRADES AT 10450+25 CUZ OF THE RCB AT 10455. acres) WATER NEEDS TO GET BACK INTO THE 10450+- RT.

10450 10455 10460 10465 10470 10475

50 55 60 65 70

10454 10455

520
Pi Sta 519+64.33

18" X 20.6 C.M.P.

Pi Sta 517+37.93

515
Pi Sta 514+72.32

HAD TO MOVE SD RD OTHER PIPES TO MC

DO DITCH GRADE FROM OUTLET THIS SD RD PIPE BACK TO MC PIPE OUTLET 497.48

Pi Sta 511+97.99

Pi Sta 511+37.24

STAGE 1 UAC
STAGE 2 REMOVE

STAGE 1 RCB DESIGN
LEAVE MEDIAN OPEN
STAGE 2 REMOVE OLD
& EXTEND

STAGE 1 LAY
LEAVE MEDIAN OPEN
STAGE 2 REMOVE OLD
AND P&A

STAGE 1 LAY
LEAVE MEDIAN OPEN
STAGE 2 REMOVE OLD
AND P&A

STAGE 1 EXTEND
STAGE 2 REMOVE & P&A

THOUGHT THIS WAS BETTER THAN STANDING WATER IN MEDIAN AND COULDN'T LOWER INLET

510
Pi Sta 509+51.77

Tile

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

OLD DES# 1356
Sta. 455+14.28
Skew 45°
Twin 6.0 X 4.0 X 126.8 RCB
D.A. = 153 Ac - H
201 AC R-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

505
Pi Sta 503+19.19

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

3:52:39 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

3:52:40 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.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 10497+43.43

PC Sta 10491+88.23

PT Sta 10493+88.23

18″ X 32.7 Conc Pipe

HAD TO MOVE SO PIPE AWAY FROM OTHER PIPES SO MOVED YOUR DITCHS HERE

1 LOWERED RT. DITCH TO GET PIPE UNDER

STAGE 1 LAY
LEAVE MEDIAN OPEN
STAGE 2 EXTEND

STAGE 2
CARRY BACK TO SD RD
THEN ACROSS ML PIPE

STAGE 1 JACK AND LAY
STAGE 2 REMOVE 120'
OF OUTLET PIPE &
REMOVE OLD PIPE

THIS FEEDS PONDS

1 LOWERED STAGE 2 RT DITCH TO GET + DRAINAGE
WE NEED TO DITCH TO DRAW APPROX 400' RT EL 1422.0

CAN NO
OUTLE
ON LEF

STAGE 1 C
RIGHT AN
STAGE 2 R

RADIUS RETURNS???

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

36″

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

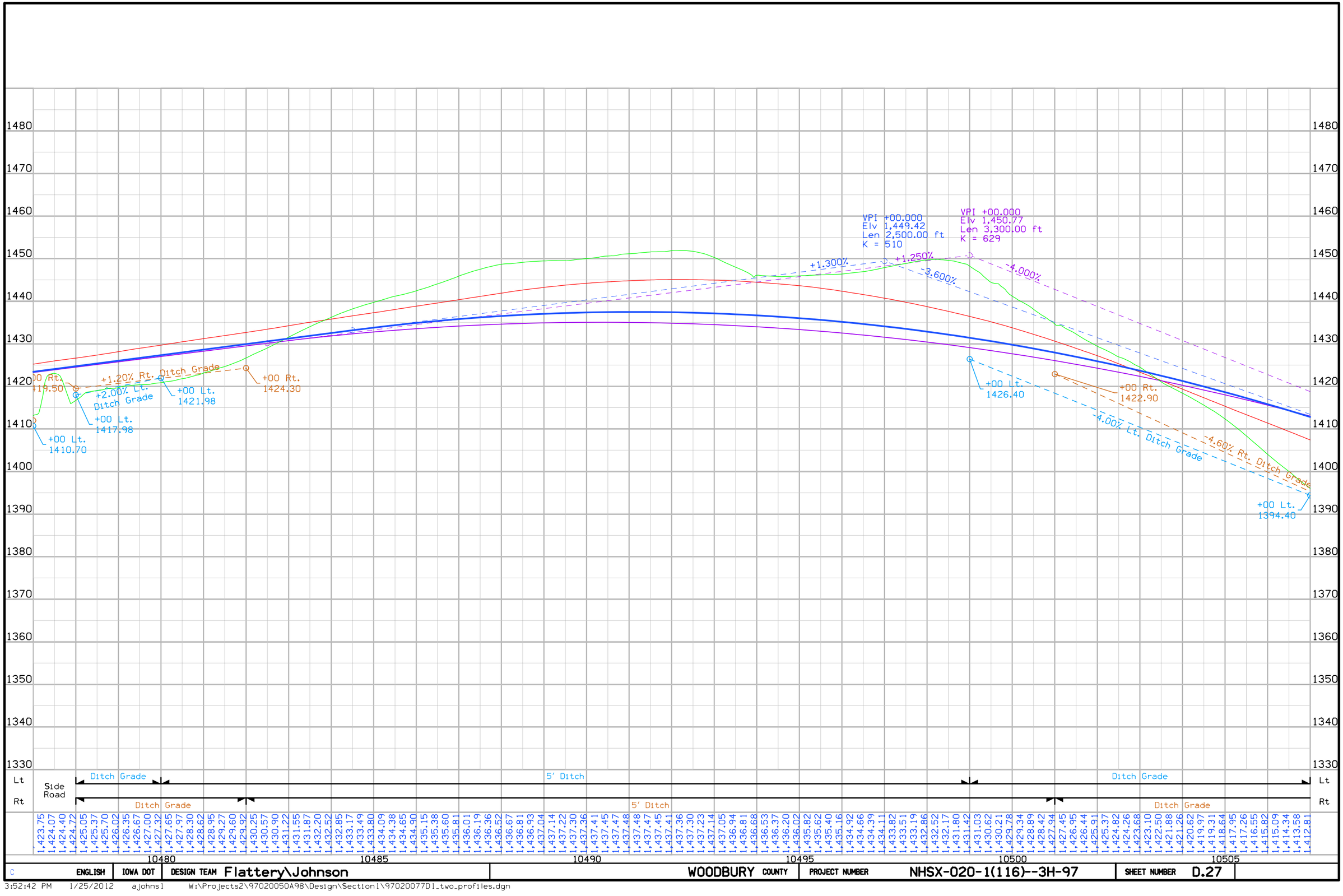
LEE AVE

N

0 FEET 100

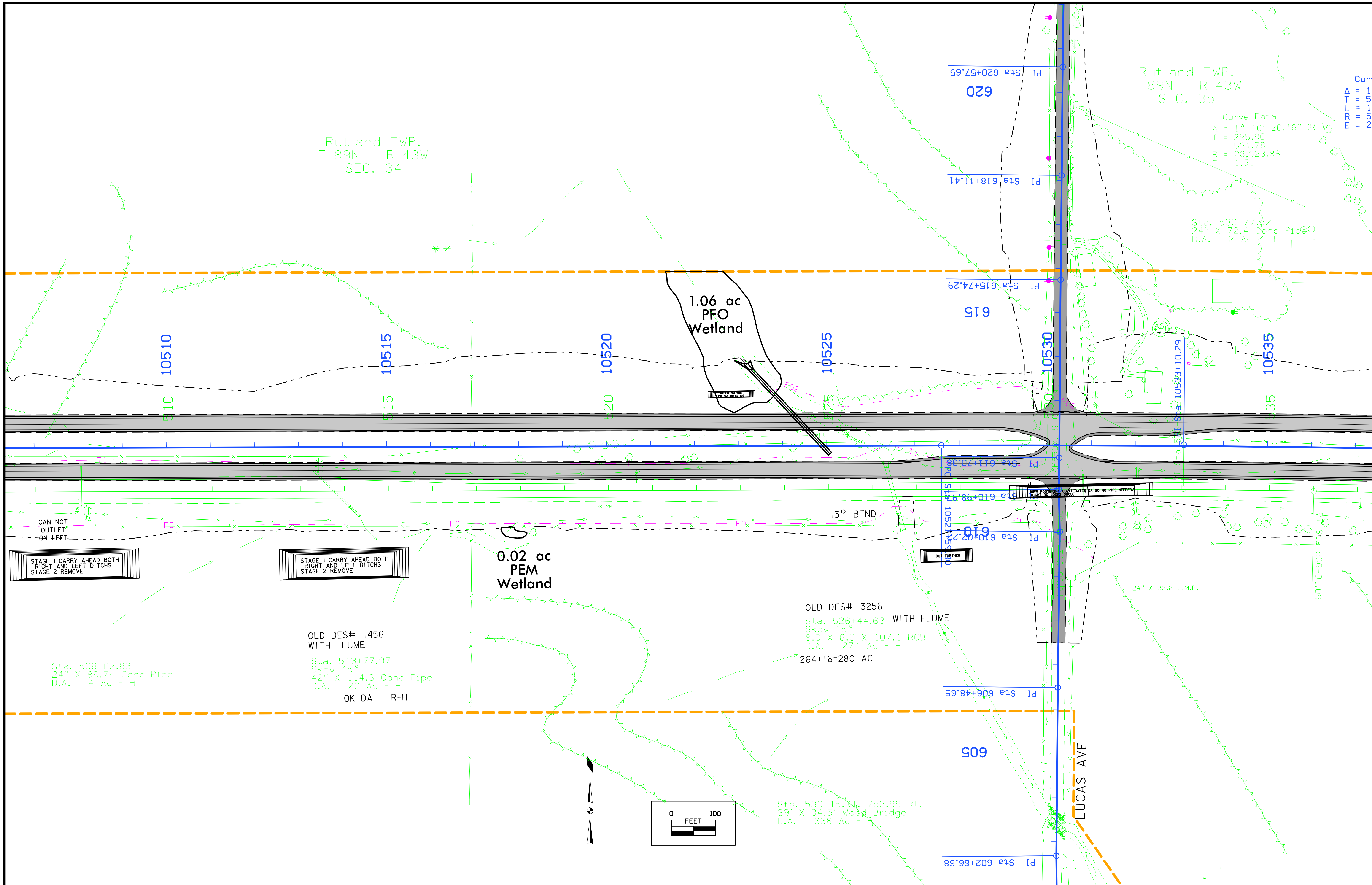
ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.26

3:52:41 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



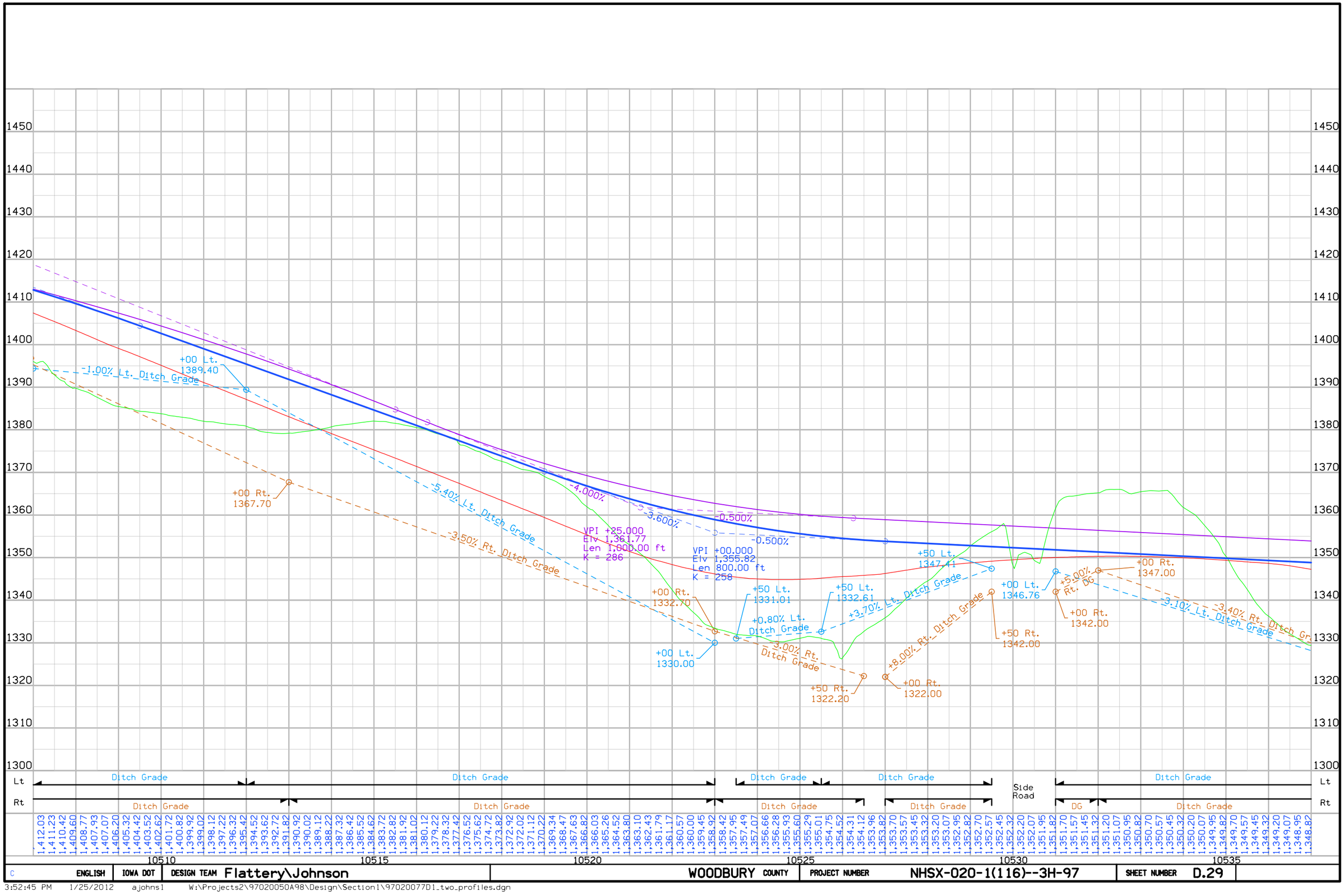
C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.27

3:52:42 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



Rutland TWP.
T-89N R-43W
SEC. 34
Rutland TWP.
T-89N R-43W
SEC. 35
1.06 ac
PFO
Wetland
0.02 ac
PEM
Wetland
10510
10515
10520
10525
10530
10535
620
615
605
13° BEND
CAN NOT
OUTLET
ON LEFT
STAGE 1 CARRY AHEAD BOTH
RIGHT AND LEFT DITCHS
STAGE 2 REMOVE
STAGE 1 CARRY AHEAD BOTH
RIGHT AND LEFT DITCHS
STAGE 2 REMOVE
OLD DES# 1456
WITH FLUME
Sta. 513+77.97
Skew 45°
42" X 114.3 Conc Pipe
D.A. = 20 Ac - H
OK DA R-H
Sta. 508+02.83
24" X 89.74 Conc Pipe
D.A. = 4 Ac - H
OLD DES# 3256
WITH FLUME
Sta. 526+44.63
Skew 15°
8.0 X 6.0 X 107.1 RCB
D.A. = 274 Ac - H
264+16=280 AC
Sta. 530+15.01, 753.99 Rt.
39" X 34.5' Wood Bridge
D.A. = 338 Ac - H
Sta. 530+77.62
24" X 72.4 Conc Pipe
D.A. = 2 Ac - H
24" X 33.8 C.M.P.
Curve Data
Δ = 1° 10' 20.16" (RT)
T = 295.90
L = 591.78
R = 28,923.88
E = 1.51
LUCAS AVE
0 100
FEET

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



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

3:52:45 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

STAGE 1 CARRY AHEAD
STAGE 2 REMOVE

STAGE 1 EXTEND RCB
STAGE 2 REMOVE OLD
& EXTEND

WATER WILL POND
IN MEDIAN FOR
AWHILE

P.T. Sta. 10538+60.64

STAGE 1 RCB DESIGN
LEAVE MEDIAN OPEN
STAGE 2 REMOVE OLD
& EXTEND

OLD DES# 3356
Sta. 539+65.02
8.0 X 8.0 X 137.0 RCB
Skew 30° WITH FLUME
D.A. = 310 Ac - H
280 AC H

Sta. 541+42.44 260' RT
48" X 161.0 C.M.P.
D.A. = 316 Ac - H

Sta. 554+78.56
30" X 73.0 Conc Pipe
D.A. = 6 Ac - H

O IP

24" X 69.0 Conc Pipe

0.11 ac
PFO
Wetland

OLD DES# 3456
Sta. 562+31.61
10.0 X 12.0 X 133.0 RCB
Skew 25°
D.A. = 712 Ac - H
DA 716+6+10= 732 H

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

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.30

3:52:46 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

+50 Lt. 1323.51
+00 Lt. 1324.76
+00 Rt. 1319.80
+50 Rt. 1315.80
+3.00% Rt. Ditch Grade
+1.10% Lt. Ditch Grade
+00 Rt. 1332.30
+0.90% Rt. Ditch Grade
+00 Lt. 1336.86
+00 Rt. 1336.80
-1.18% Lt. Ditch Grade
-2.40% Rt. Ditch Grade
-0.500%
+3.300%
+3.800%
VPI +50.000
Elv 1,338.07
Len 800.00 ft
K = 211
VPI +00.000
Elv 1,342.40
Len 1,000.00 ft
K = 233
+25 Rt. 1320.00
+50 Lt. 1320.93
+00 Rt. 1310.40
+4.00% Rt. Ditch Grade
+00 Lt. 1322.97

Lt: DG | Ditch Grade | Ditch Grade | Ditch Grade | Ditch Grade

Rt: 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

3:52:47 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

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

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' 21.40" (LT)
T = 300.00
L = 600.00
R = 280,380.97
E = 0.16

720
PI Sta 717+59.59
715
PI Sta 715+46.28
710
PI Sta 710+44.00
PI Sta 711+56.39
PI Sta 712+13.99
PI Sta 708+49.71
705
PI Sta 705+53.52
PI Sta 705+94.52

10570 10575 10580 10585 10590 10595

PC Sta 10575+49.39
PT Sta 10586+05.44
PC Sta 671+49.39
PT Sta 687+49.39

18" X 26.2 Conc Pipe

STAGE I LAY
LEAVE MEDIAN OPEN
STAGE 2 REMOVE OLD
AND PAA

STAGE I LAY AND SEAL ENDS
STAGE 2 EXTEND

STAGE I JACK AND LAY
AND P&A OLD PIPE

STAGE I CARRY BACK
AND STAGE 2 REMOVE

6 Rt.
W/Flume

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

OLD DES# 3756
586+22.88
36" X 106.5 Conc Pipe WITH FLUME
D.A. = 4 Ac R
13 AC R

OLD DES# 3856
595+33.87
Skew 20°
3.0 X 3.0 X 229.6 RCB
D.A. = 13 Ac R
14 AC H

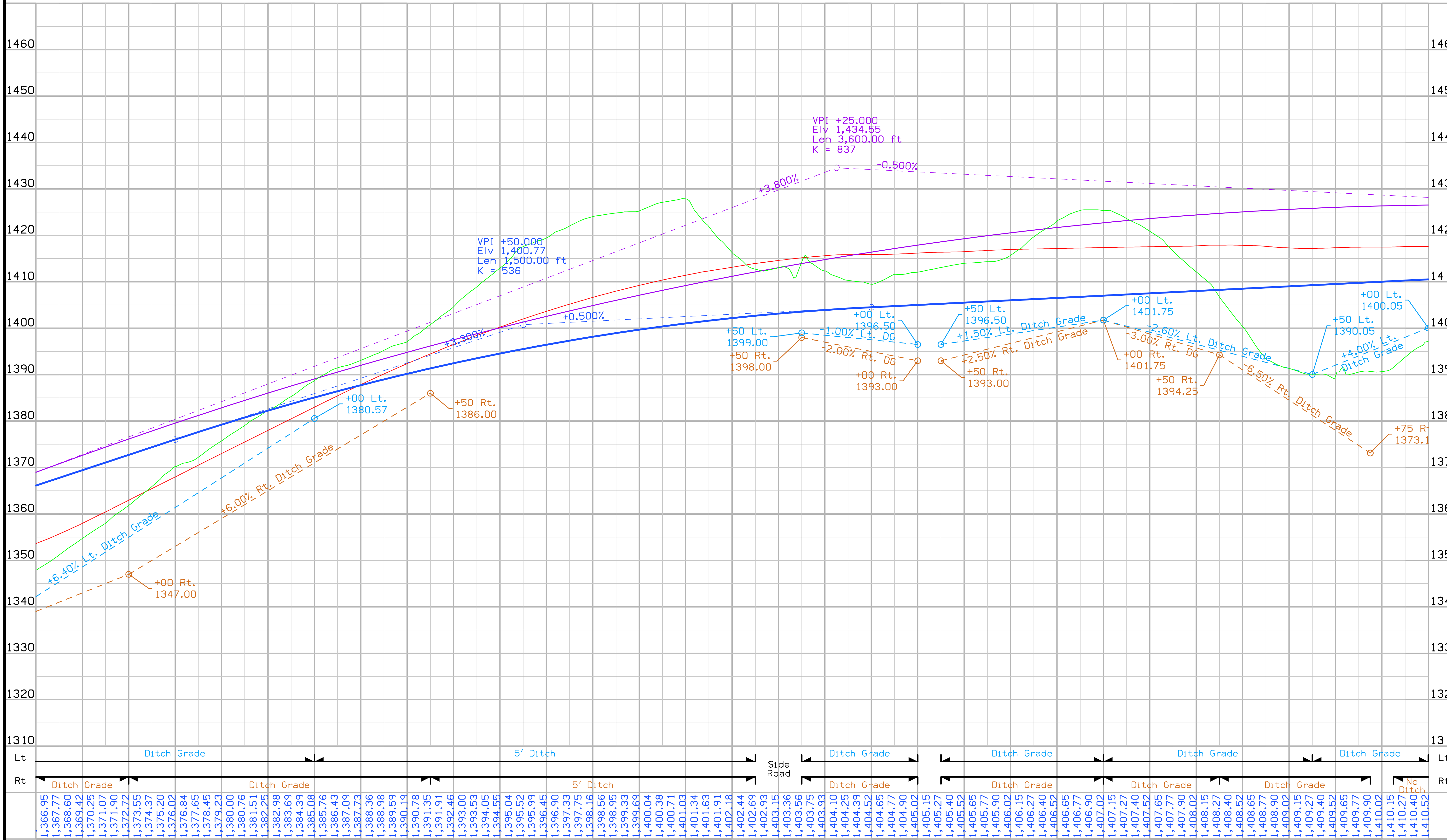
582+89.57, 671.84
18" X 42.2 Conc Pipe
D.A. = 6 Ac R

LENOX AVE

0 FEET 100

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

3:52:49 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



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

3:52:50 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

10600 10605 10610 10615 10620 10625

0.23 ac
PEM
Wetland

STAGE 1 JACK AND LAY AND P&A OLD PIPE
I THINK THE NEED LINE IS OFF A BIT HERE
STAGE 1 CARRY BACK STAGE 2 REMOVE
NEED RT DTCH GRADE BACK STG 1
OUT FURTHER

FO

OLD DES# 3956
598+89.53
Skew 30°
3.0 X 3.0 X 263.1 RCB
D.A. = 19 Ac R
19+3=22 AC H

OLD DES# 4056
603+55.96
Skew 30°
24" X 83.2 Conc Pipe WITH FLUME
D.A. = 3 Ac R

OLD DES
4156
628+10.61, 66.25 Rt
42" X 29.5 Conc Pip
D.A. = 30 Ac R

0 100
FEET

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

3:52:51 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

3:52:53 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

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

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

HAD TO LOWER THE LEFT DITCH CLOSER TO EXISTING DITCH ELEVATIONS

Pl Sta 821+64.84

PROPOSED DITCH

820

YOU CUT OUT THIS HILL SO I PUT A PIPE AT 818+00 TO CATCH WATER AND PUSH OVER TO RIGHT SIDE DITCH

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

636+23.95
24" X 78.0 Conc Pipe
D.A. = 1 Ac H

I CHANGED DITCHING HERE

Pl Sta 818+10.30

629+99.66
54" X 90.8 Conc Pipe W/Flume
D.A. = 35 Ac H

NEED TO CUT A DITCH THIS QUADRANT FROM SD RD RIGHT DITCH TO EAST TO CULVERT STA 10644 TO KEEP WATER ON OUR ROW

10630 10635 10640 10645 10650 10655

MATCH EL 1350.50

I CHANGED DITCHING HERE

CHANGE THE LEFT DITCH GRADE SO IT DRAINS AHEAD FROM 10630+75 EL 1350.5

815

existing drainages arrow wrong

Pl Sta 813+42.38

STAGE I LAY LEAVE MEDIAN OPEN STAGE 2 EXTEND & REMOVE OLD PIPE

ROAD EQUIPMENT TOOK DA LANE STAGE 1 CARRY AHEAD DA STAGE 2 REMOVE

636+23.95
24" X 78.0 Conc Pipe
D.A. = 1 Ac H

Pl Sta 812+24.09

DITCH TO DRAW

FO

24" X 25.5 CMP

SAME LOCATION AND LEAVE MEDIAN OPEN

OUT FURTHER

STAGE I LAY LEAVE MEDIAN OPEN STAGE 2 EXTEND & REMOVE OLD PIPE & FLUME

DITCH EXISTING OUTLET TO DRAIN

0.08 ac PEM Wetland

STAGE I LAY LEAVE MEDIAN OPEN STAGE 2 REMOVE OLD AND EXTEND

OLD DES # 4156

OLD DES# 4256
629+99.66
54" X 90.8 Conc Pipe W/Flume
D.A. = 35 Ac H

STAGE I LAY LEAVE MEDIAN OPEN STAGE 2 REMOVE OLD & EXTEND

OLD DES# 4356
644+00.64,
54" X 120.1 Conc Pipe W/Flume
D.A. = 58 Ac H

OLD DES# 4456
652+07.02,
42" X 73.0 Conc Pipe W/Flume
D.A. = 16 Ac H

810

635+27.05, 282.90 Rt.
5.0 X 4.0 Box Culvert
D.A. = 103 Ac H

Pl Sta 809+01.20

Pl Sta 807+29.98

MINNESOTA AVE

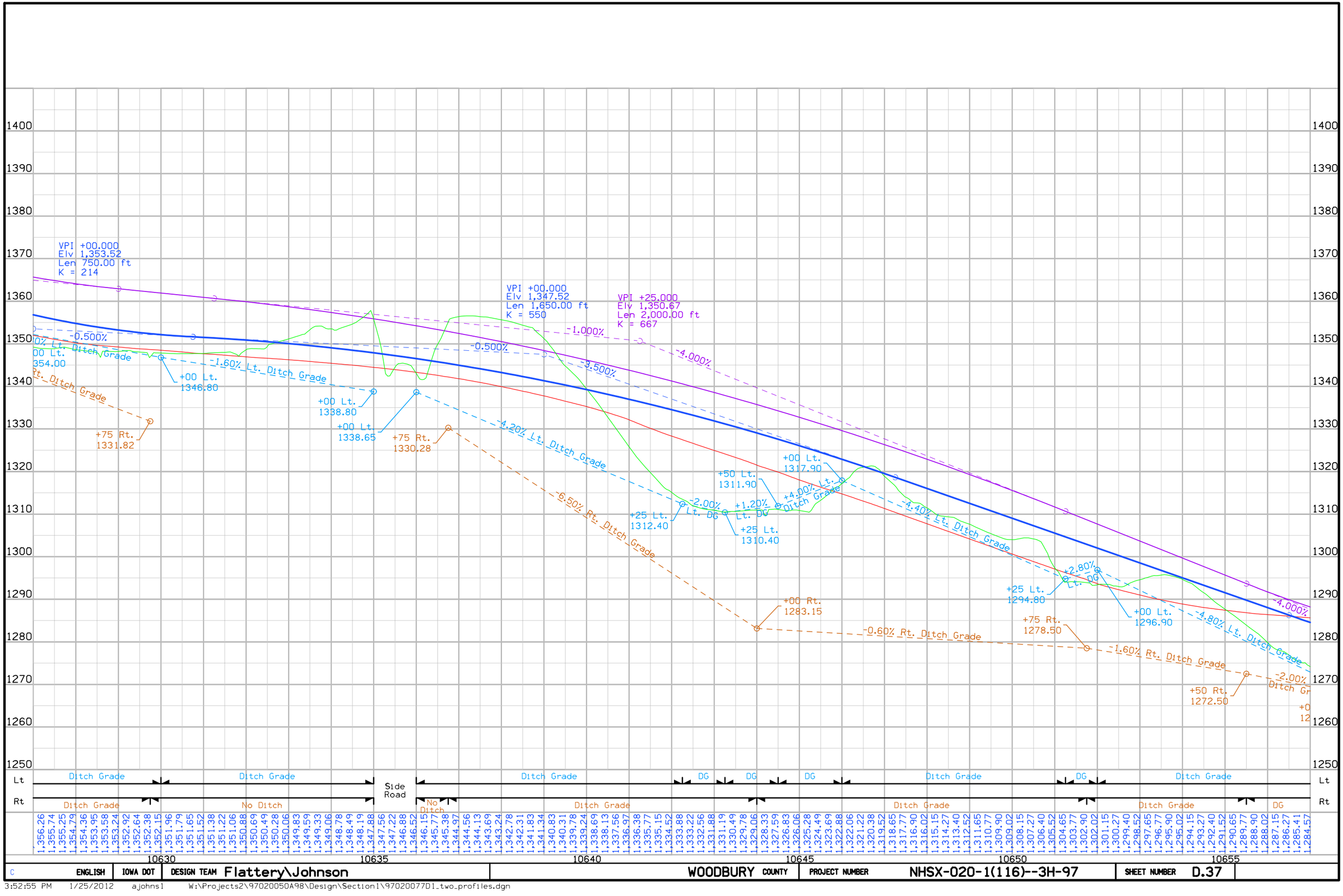
805

Pl Sta 803+25.58

0 100
FEET

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

3:52:54 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



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

3:52:55 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

2.13 ac
PEM
Wetland

FLOW

10660 10665 10670 10675 10680 10685

60 65 70 75 80 85

PC Sta 10685+01.01

Sta 688+63.26

THREE 10' LONG 10° SECTIONS

DRAIN STAGE I MEDIAN BACK TO RCB GAP STA. 10659

24" X 95.3 C.M.P.

STAGE I EXTEND RCB
STAGE 2 REMOVE OLD
& EXTEND

OUT FURTHER

STAGE I RCB DESIGN
LEAVE MEDIAN OPEN
STAGE 2 REMOVE OLD
& EXTEND

CHANGED DITCH A BIT AND
RAISE RT DTCH TO 3' BELOW
PG AT 10661+50

STAGE I UAC
STAGE 2 P&A

18" X 85.9 C.M.P.

36"
10683+44 50° LA
OLD DES# 4756
681+51.90
Skew 30°
36" X 136.2 Conc Pipe W/ Flume
D.A. = 12 Ac H

OLD DES# 4556
657+88.74
Skew 40° WITH FLUME
8.0 X 8.0 X 100.4 RCB
D.A. = 230 Ac H
242 AC H

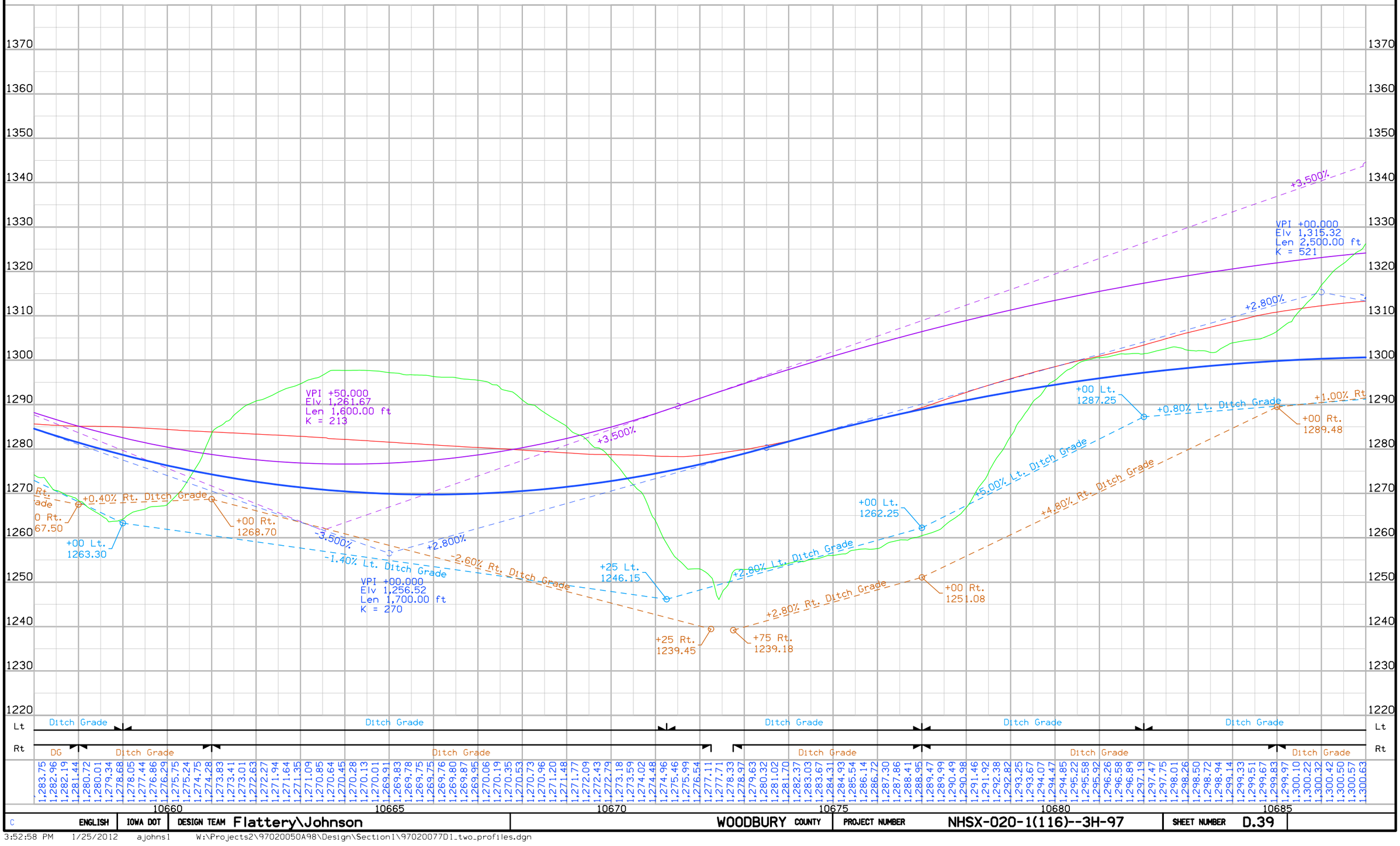
OLD DES# 4656
670+08.67.
10.0 X 10.0 X 129.8 RCB
D.A. = 1566 Ac H
1461 AC H-VH

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.38

3:52:57 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



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

3:52:58 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

Curve Data
Δ = 1° 56' 00.92" (LT)
T = 386.70
L = 773.33
R = 22,915.08
E = 3.26

Curve Data
Δ = 1° 56' 00.92" (LT)
T = 550.14
L = 1,100.17
R = 32,600.00
E = 4.64

PI Sta 910+47.03
PI Sta 908+36.74
PI Sta 906+35.11
PI Sta 903+61.65
PI Sta 901+15.77
POT Sta 900+00.00

910
905
900

MASON AVE

10690
10695
10700
10705
10710
10715

Brush & Trees
Brush & Trees

INLET FLOW CONSIDERABLY LOWER THAN DG

ON SITE RUN AROUND

0.23 ac
PFO
Wetland

OUTLET FLOW CONSIDERABLY LOWER THAN DG

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

24" X 42.7 C.M.P

18" X 63.8 C.M.P.

24" X 40.0 C.M.P

Sta 688+63.26

Sta 694+36.59

PI Sta 1069+04.18

APPROX. SEC. LINE

Sta 1069+49.96

FO

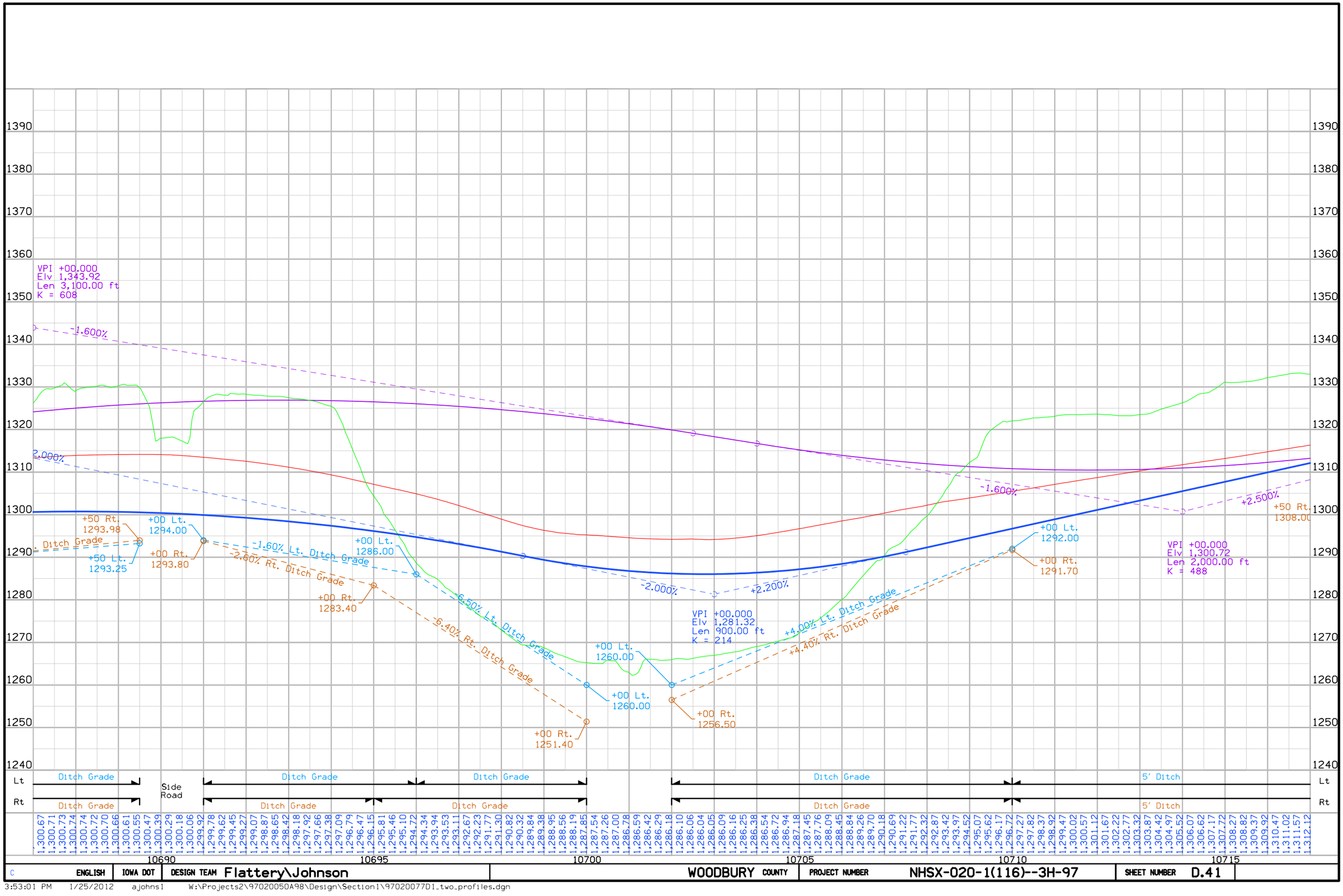
T1

OLD DES# 4856
Sta. 700+79.94
Skew 10°
6.0 X 6.0 X 226.8 RCB
D.A. = 306 Ac - H
DA 316 H-VH

0 100
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.40

3:52:59 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.41

3:53:01 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.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

STAGE I ON LEFT DITCH BEGIN A -1.66% DITCH GRADE AT 10724+00 EL=1320.72
THIS WILL GET THE DITCH CREST AWAY FROM THE DRAW

STAGE I END -1.66% LEFT DITCH GRADE AT 10729+00 ELEV 1312.40

1.17 ac PEO Wetland

10720 10725 10730 10735 10740 10745

20 25 35 40 45

APPROX. SEC. LINE

Brush & Trees

Sta. 10737+08.48

Sta. 10742+59.09

Sta. 739+55.60

Sta. 745+55.58

18" X 15.7 C.M.P

OLD DES# 4956
Sta. 719+26.94,
36" X 79.0 Conc PIPE W/ FLUME
D.A. = 8 Ac - H
DA 13 AC

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
DA 23 AC

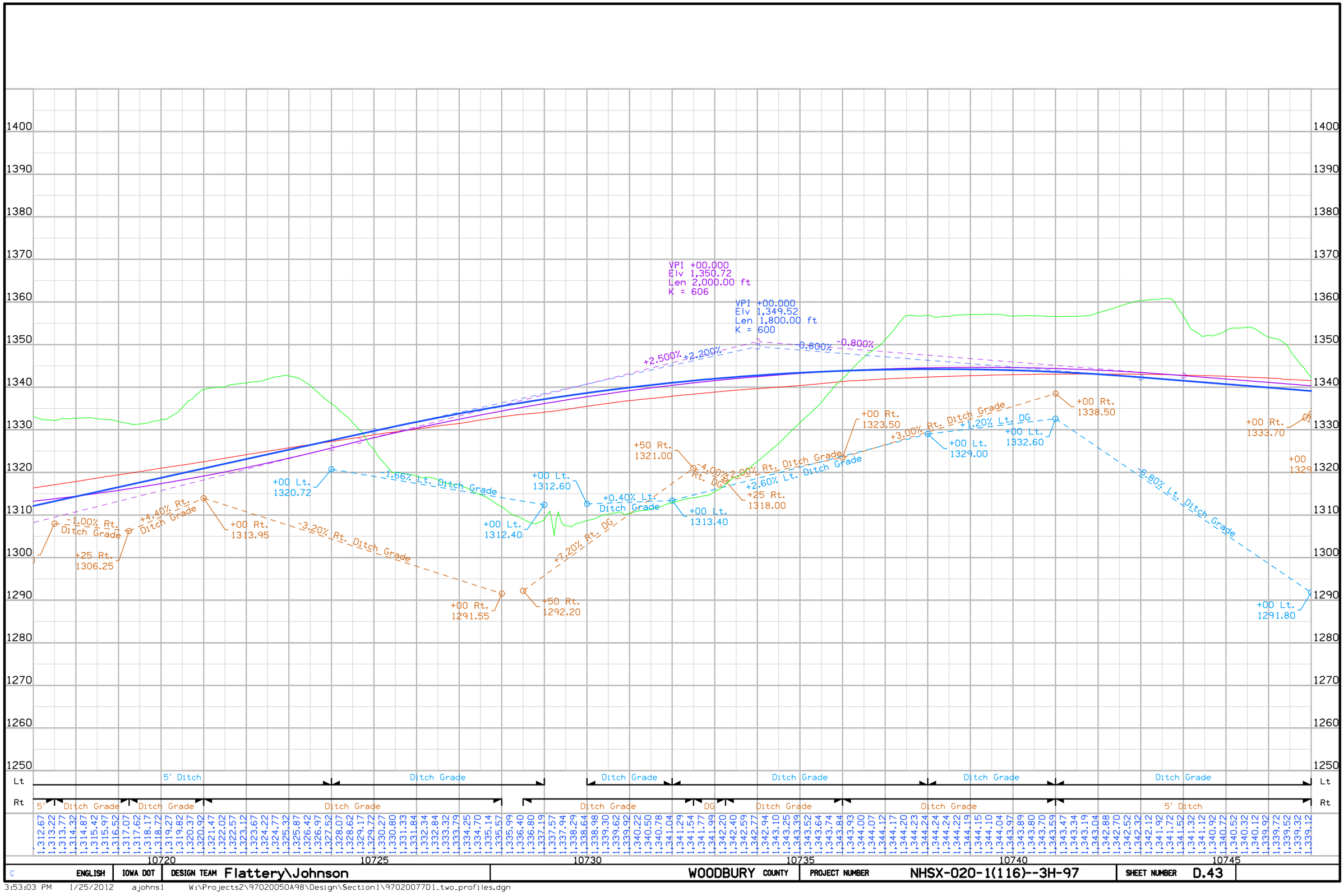
Sta. 748+92
24" X 41.5
D.A. = 2 A

APPROX. SEC. LINE

0 100 FEET

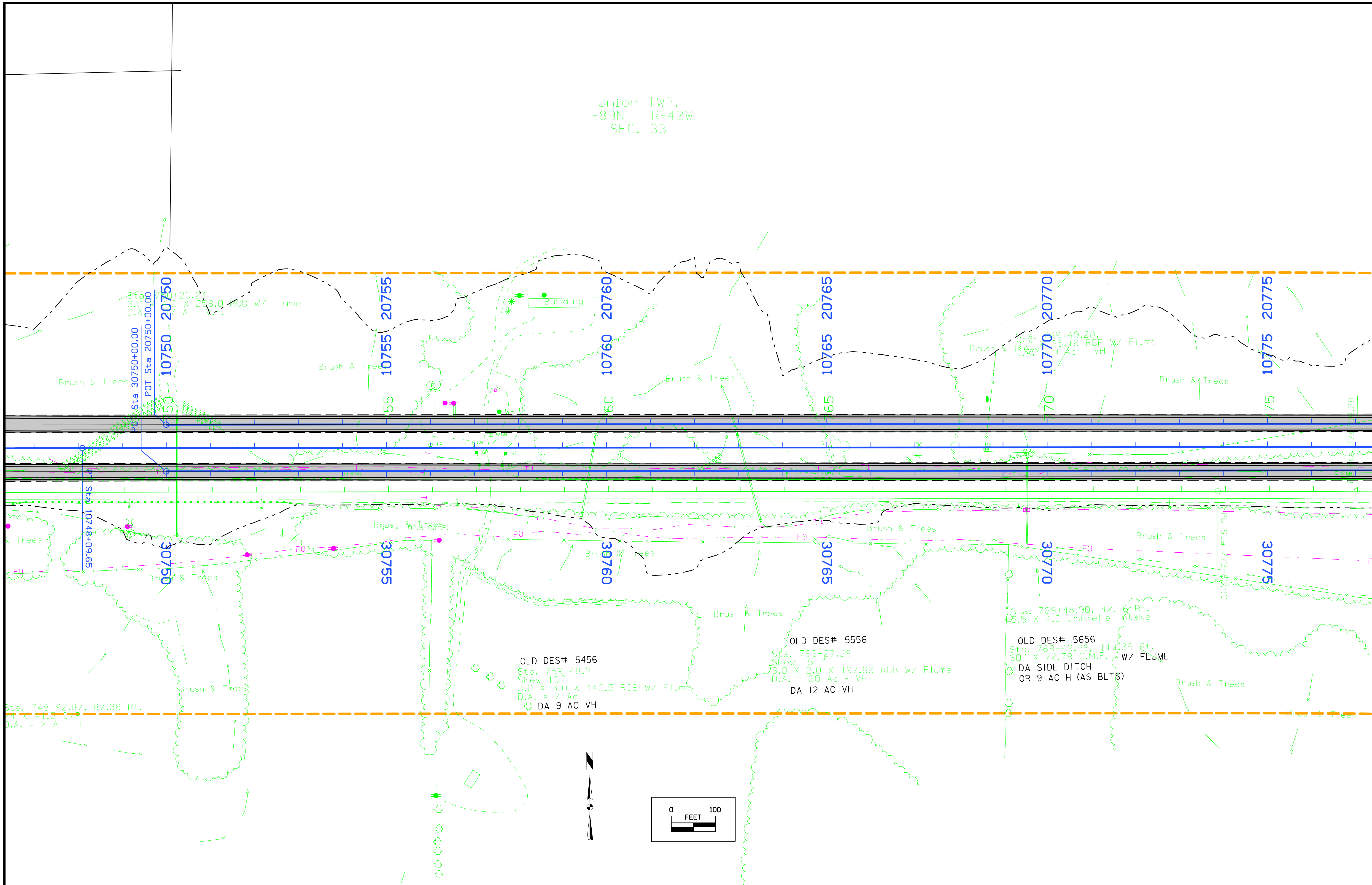
C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.42

3:53:02 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



C ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.43	

3:53:03 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



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

3:53:05 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

3:53:06 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

Curve Data
Δ = 1° 03' 04.25" (RT)
T = 315.39
L = 630.75
R = 34,380.00
E = 1.45

Union TWP.
T-89N R-42W
SEC. 33

APPROX. SEC. LINE

Curve Data
Δ = 3° 45' 58.23" (RT)
T = 821.95
L = 1,643.30
R = 25,000.00
E = 13.51

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

Curve Data
Δ = 3° 45' 58.23" (RT)
T = 821.95
L = 1,643.30
R = 25,000.00
E = 13.51

10780 20780
10785 20785
10790 20790
10795 20795
10800 20800
10805 20805

PI Sta 20796+05.28
PI Sta 10801+05.94
PI Sta 30806+06.59

Brush & Trees

30" X 92.32 P.I.P.

PC Sta 20787+83.33
PC Sta 10791+83.99
PC Sta 30797+84.63
PT Sta 20804+26.84

30780
30785
30790
30795
30800
30805

FO

PT Sta 780+18.65

OLD DES# 5756
Sta. 783+22.21
Skew 25°
30" X 96.01 RCP W/ Flume
D.A. = 10 Ac - VH
OK

3.08 ac
PEM
Wetland

Curve Data
Δ = 3° 45' 58.23" (RT)
T = 821.95
L = 1,643.30
R = 25,000.00
E = 13.51

0 FEET 100

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

3:53:08 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

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

3:53:09 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn

Farmed Wetland

STA. 10800+00
120'-0 PPCB BRIDGE
OVER LITTLE SIOUX RIVER
30° SKEW L.A.
TYPE BTC BEAMS
STUB ABUTMENTS
120'-0 SPANS (4 TOTAL)
3:1 BERM SLOPES
RIP RAP ON BERMS TO Q50 ELEVATION
TEE PIERS PROPOSED

DA=2,500 SQ. MI.
Q50=27,700 CFS
STAGE=1,122.81
BACKWATER=0.44 FT.
FREEBOARD=5.91 FT.
BRIDGE VELOCITY=5.4 FPS

Q100=33,100 CFS
STAGE=1,124.39
BACKWATER=0.51 FT.

ZONE AE FLOOD HAZARD AREA (WATER SURFACE ELEVATIONS DETERMINED)

PROPOSED BRIDGE MEETS IDOT CRITERIA FOR 50 YEAR EVENT

Q100 WATER SURFACE ELEVATIONS WITH PROPOSED BRIDGE IN PLACE ARE NOT GREATER THAN PUBLISHED Q100 WATER SURFACE ELEVATIONS IN FIS

STA. 10834+00.00 (ML)
END PROJECT

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

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

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

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

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

10819+53.5
43° RA

Sta. 828+10.31,
Skew 58°
30" X 1[illegible].1 RCP

Sta. 828+1[illegible]
48" X 98.0

Sta. 41[illegible]
42" X 1[illegible] RCP

Sta. 43+99.96
4.0' X 6.0' X 4

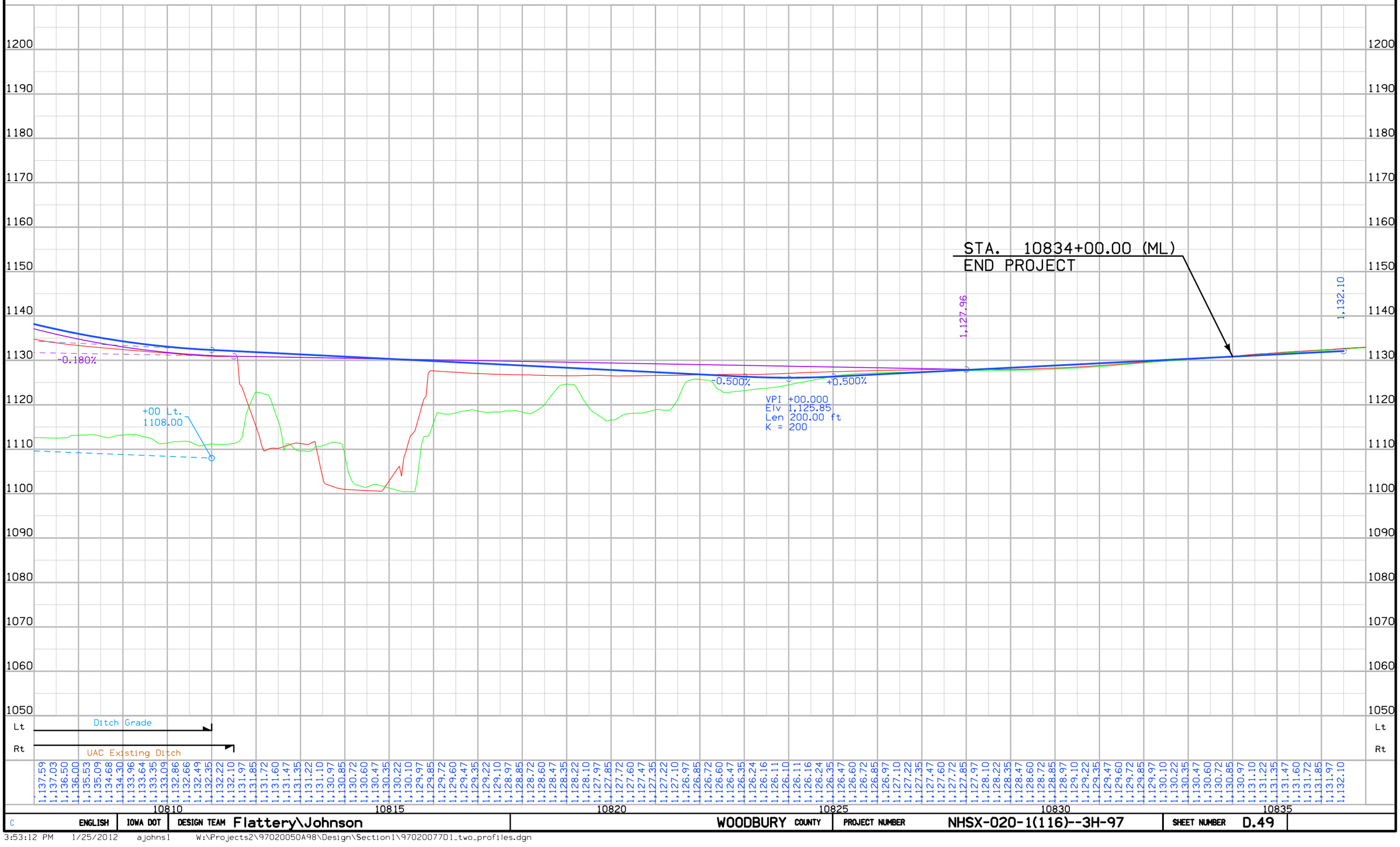
House

San.

0 100 FEET

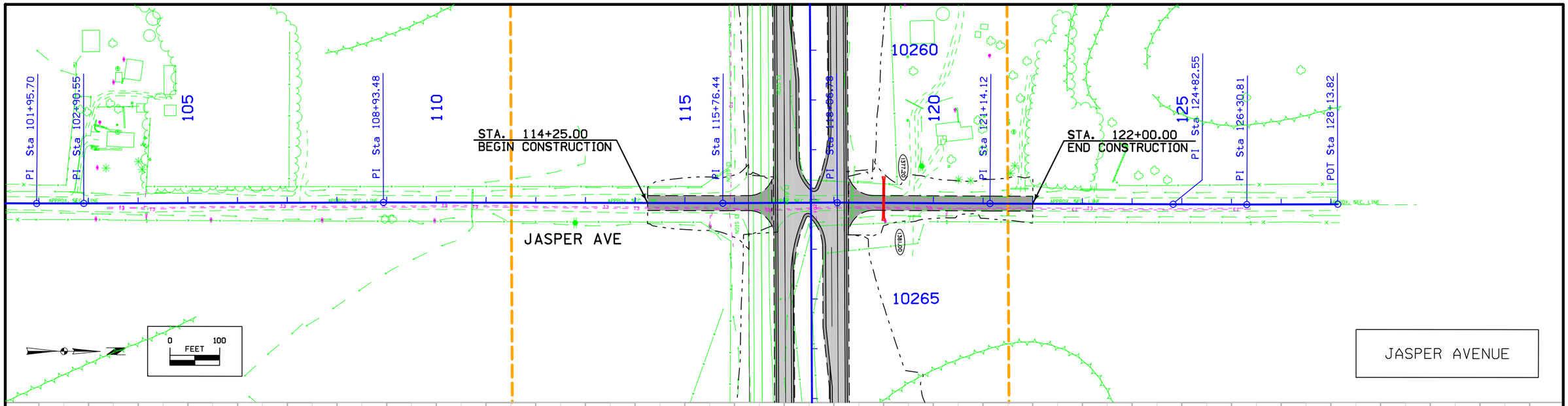
C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER D.48

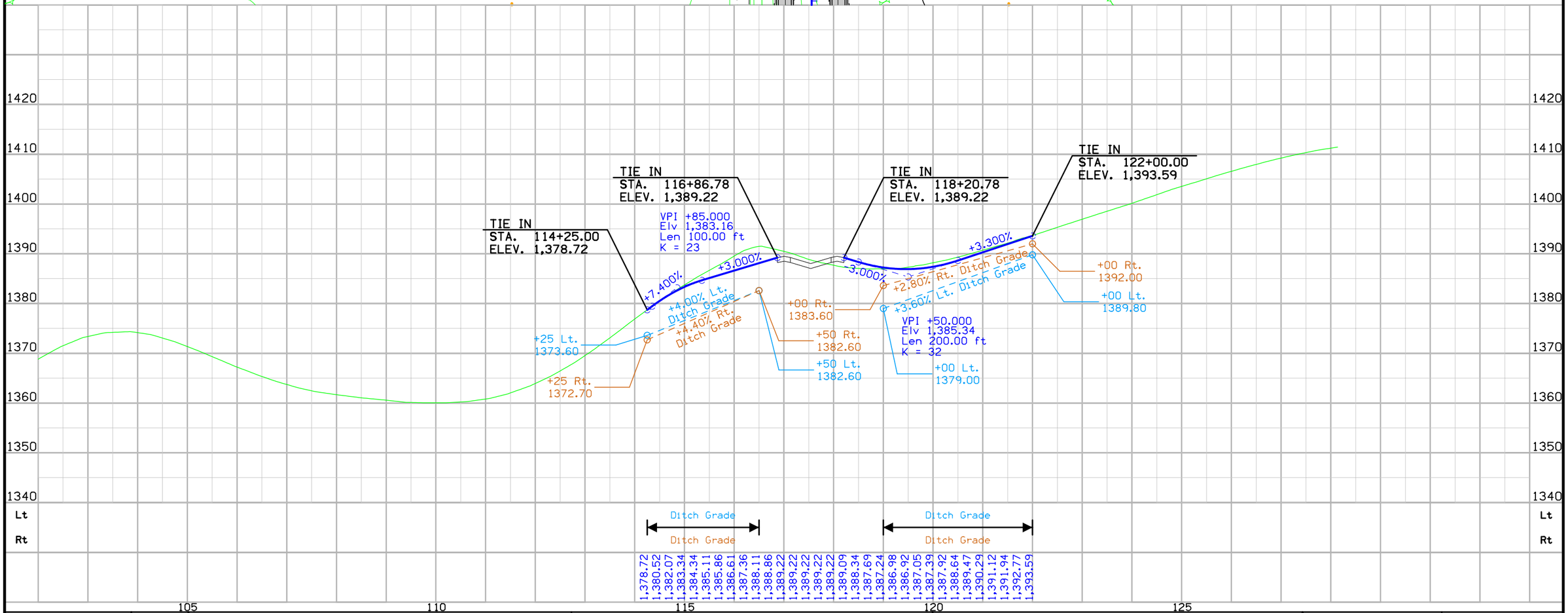
3:53:10 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn



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

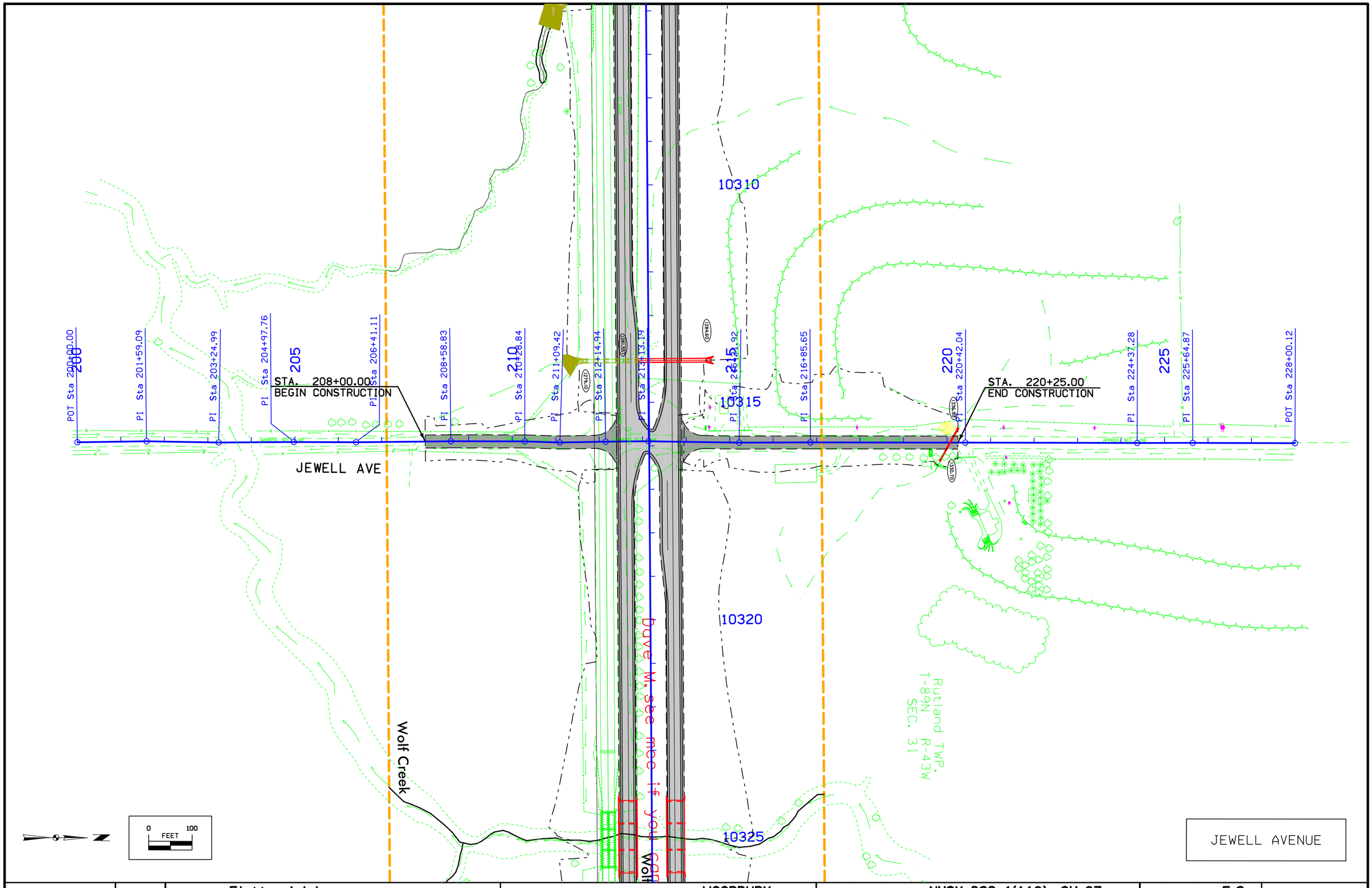
3:53:12 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\97020077D1_two_profiles.dgn





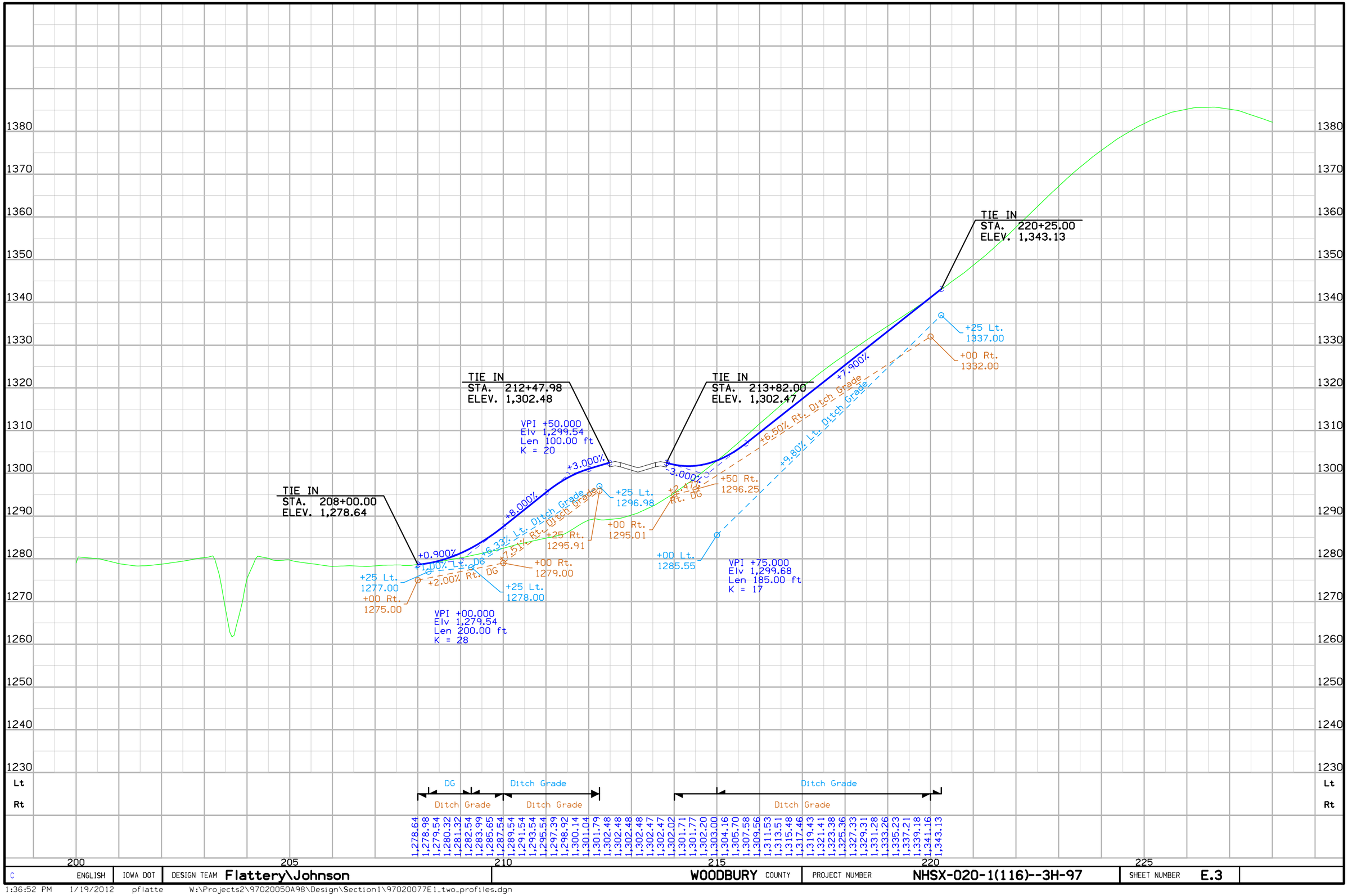
C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER E.1

1:36:49 PM 1/19/2012 pflatte W:\Projects2\97020050A98\Design\Section1\97020077E1_two_profiles.dgn



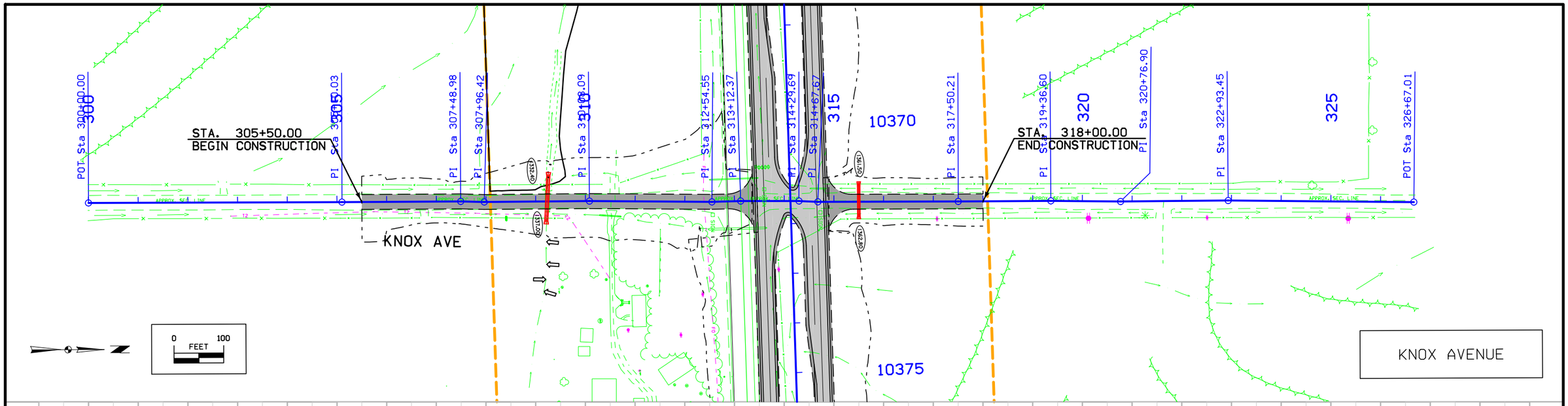
C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER E.2

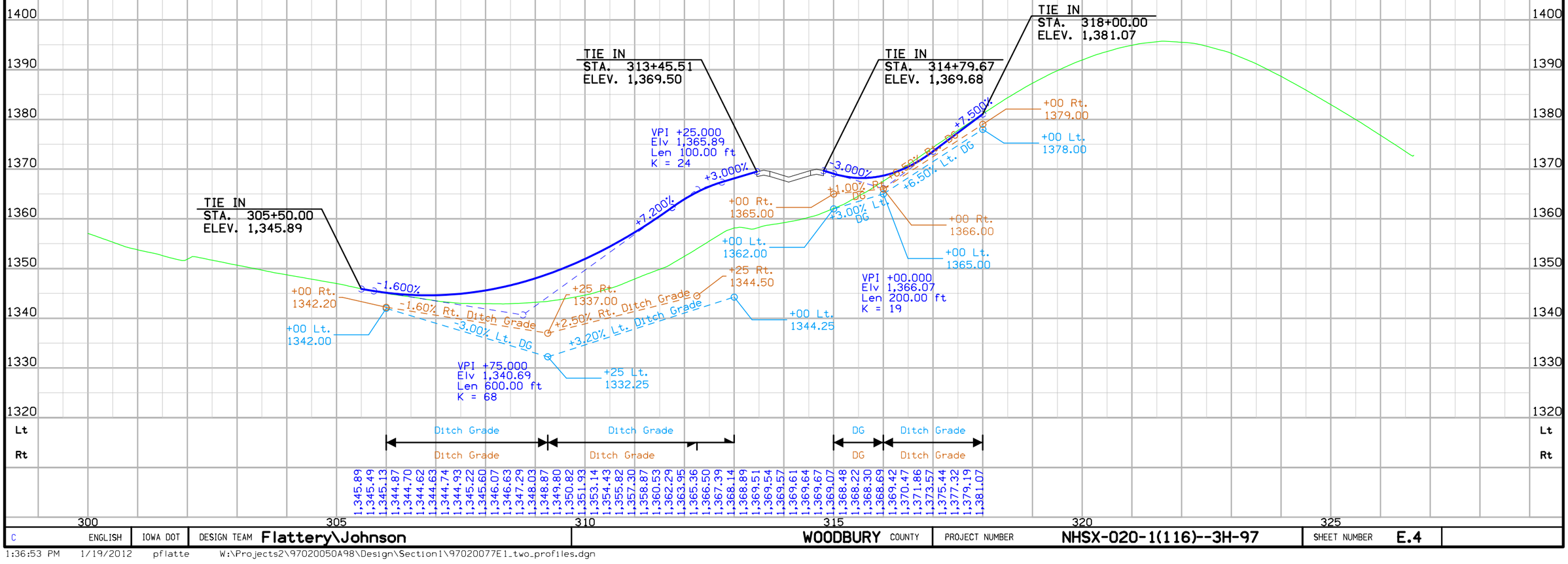
1:36:50 PM 1/19/2012 pflatte W:\Projects2\97020050A98\Design\Section1\97020077E1_two_profiles.dgn



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

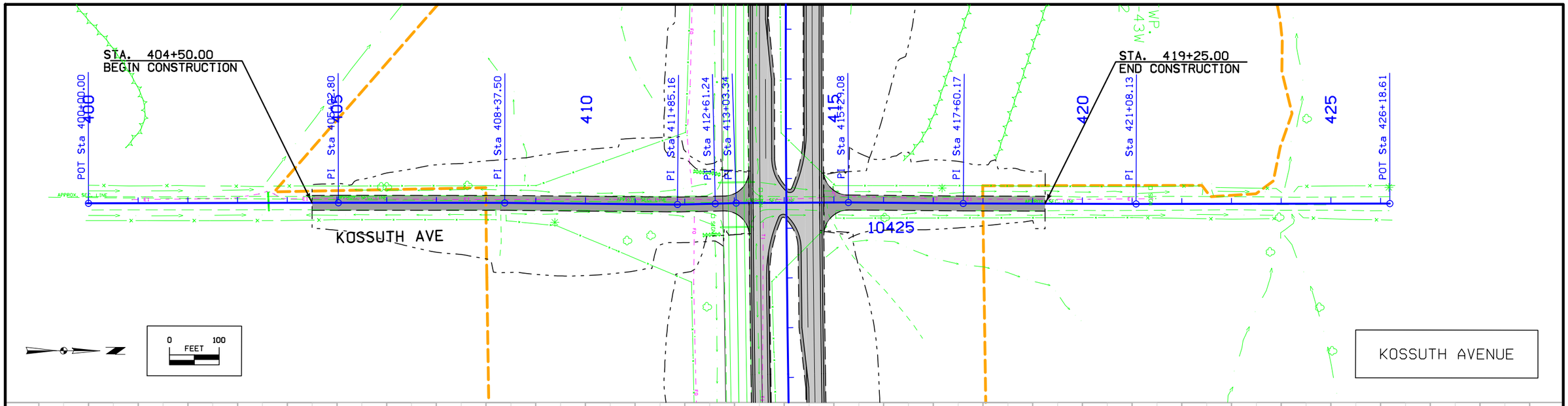
1:36:52 PM 1/19/2012 pflatte W:\Projects2\97020050A98\Design\Section1\97020077E1_two_profiles.dgn

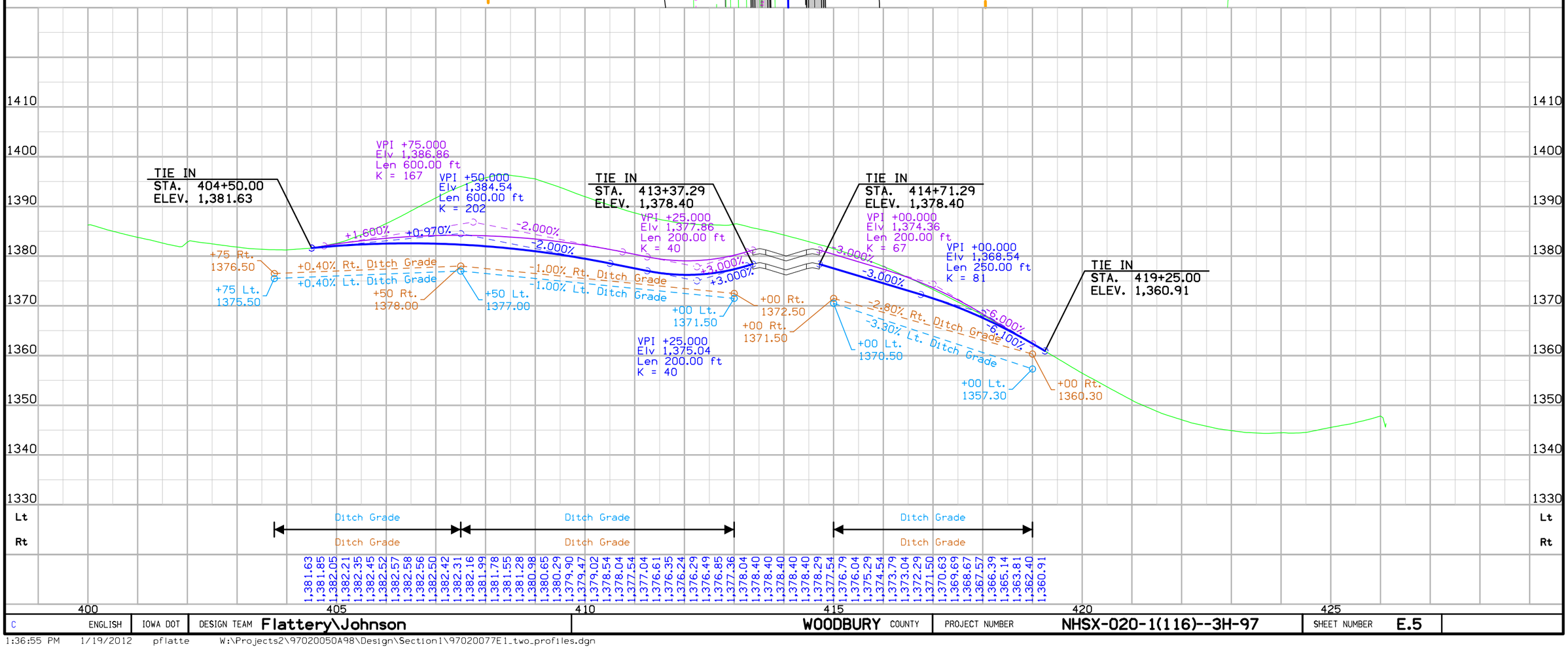




C	ENGLISH	IOWA DOT	DESIGN TEAM	Flattery\Johnson	WOODBURY	COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER E.4

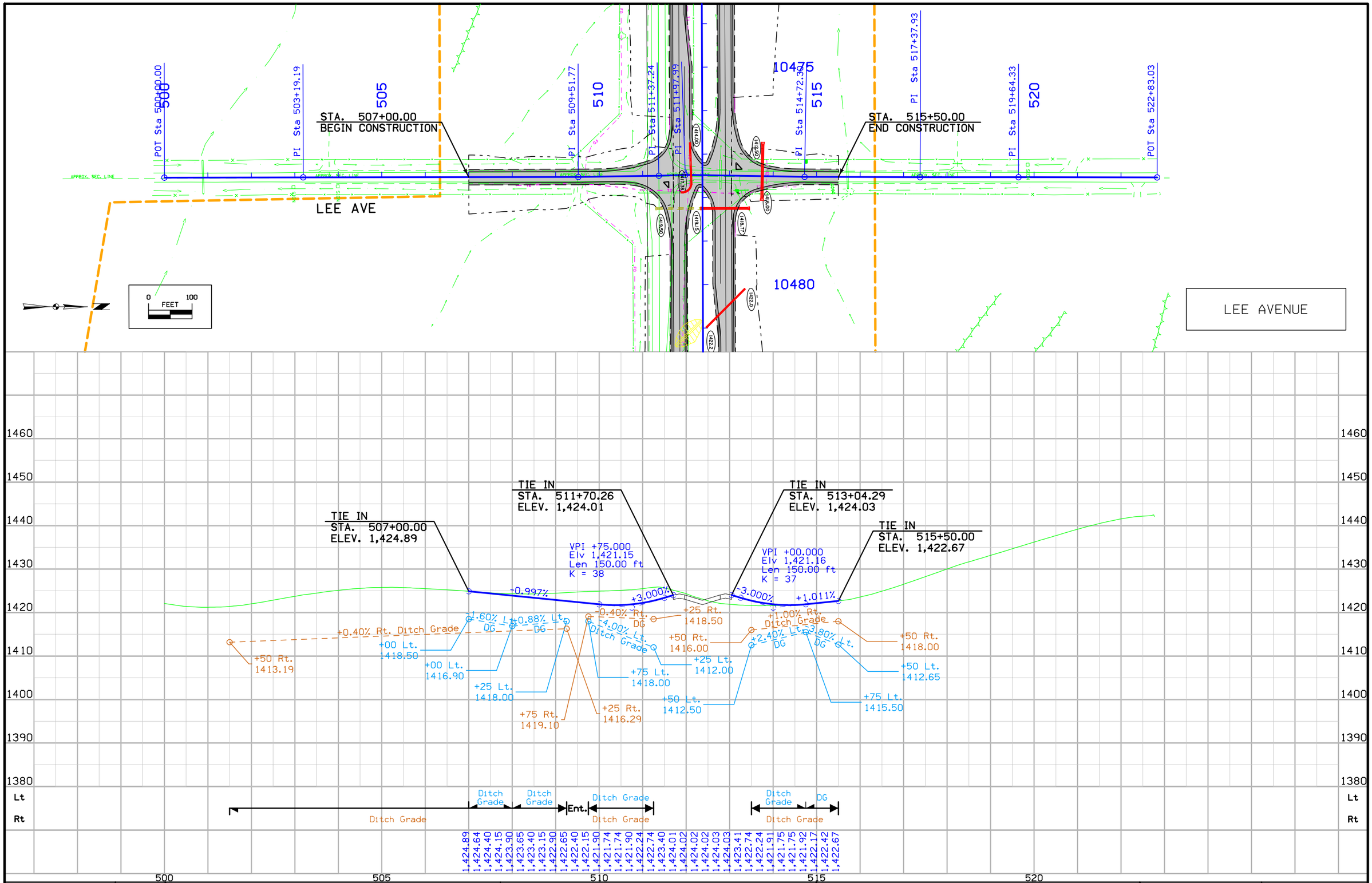
1:36:53 PM 1/19/2012 pflatte W:\Projects2\97020050A98\Design\Section1\97020077E1_two_profiles.dgn





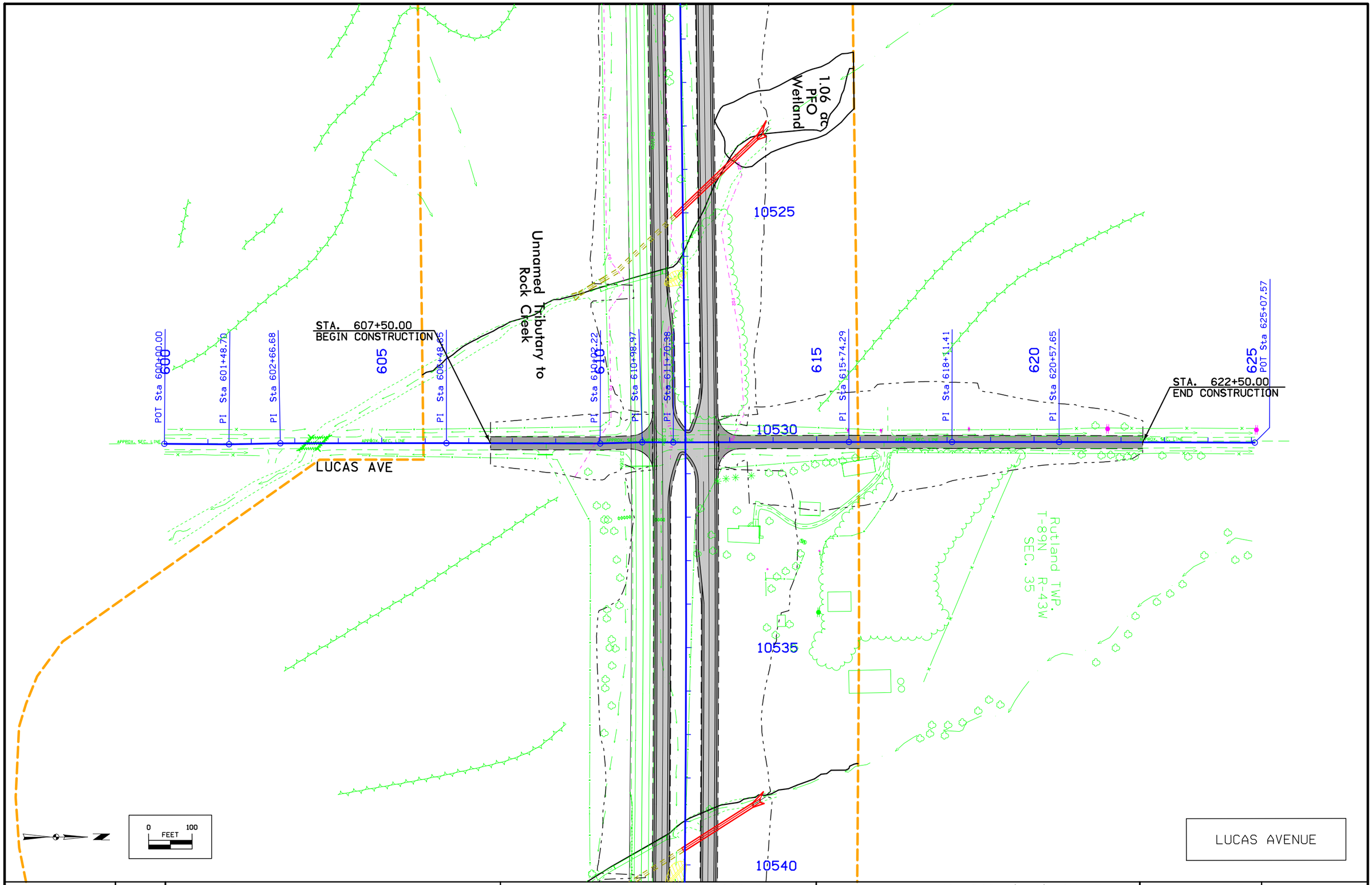
C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER E.5

1:36:55 PM 1/19/2012 pflatte W:\Projects2\97020050A98\Design\Section1\97020077E1_two_profiles.dgn



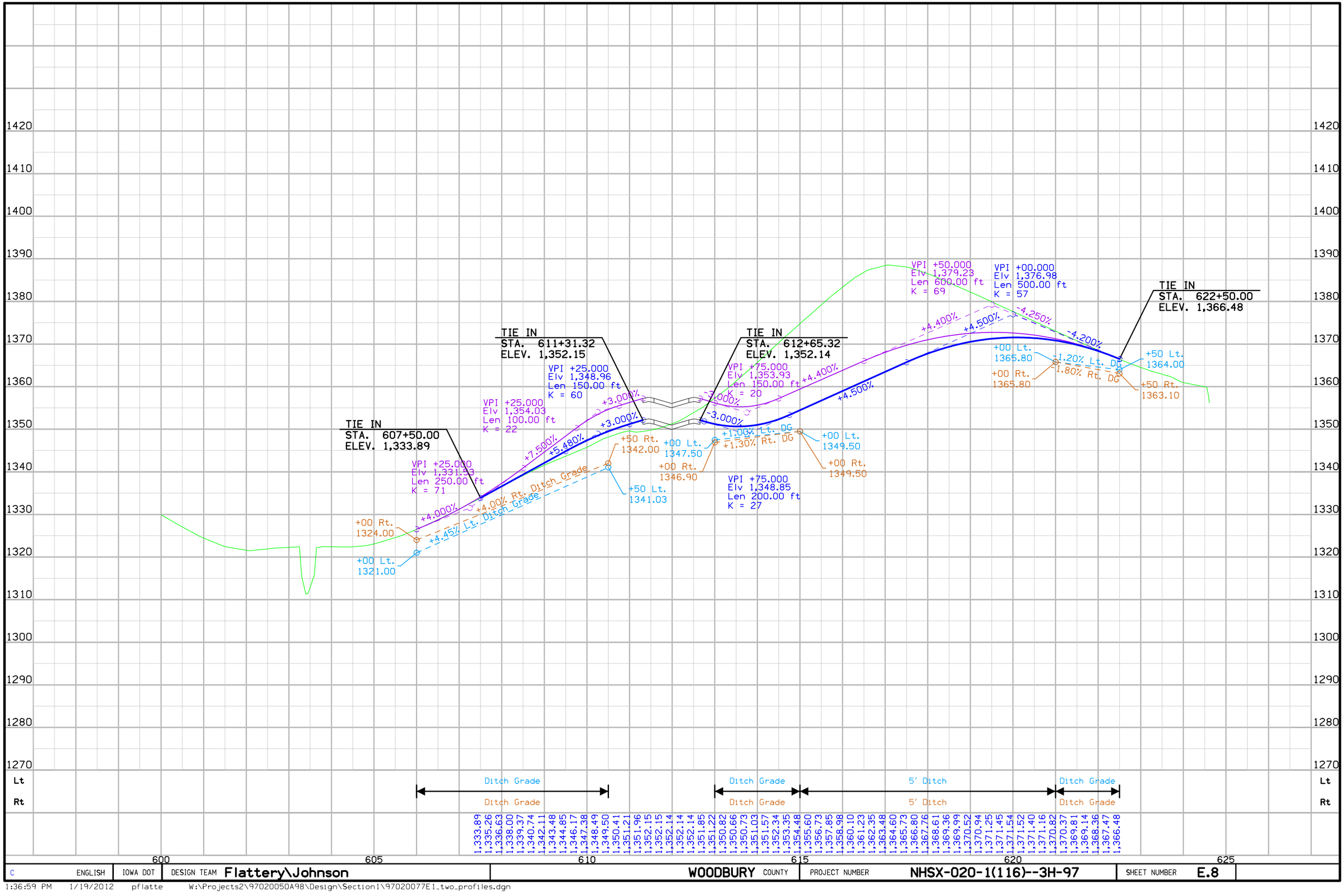
C	ENGLISH	IOWA DOT	DESIGN TEAM	Flattery\Johnson	WOODBURY	COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER E.6

1:36:56 PM 1/19/2012 pflatte W:\Projects2\97020050A98\Design\Section1\97020077E1_two_profiles.dgn



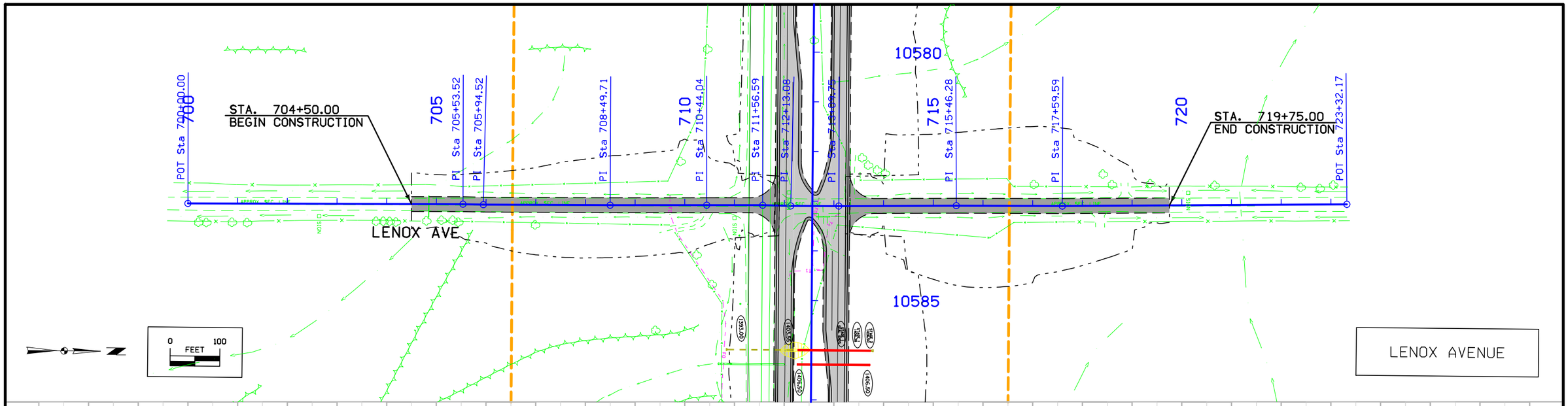
C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER E.7

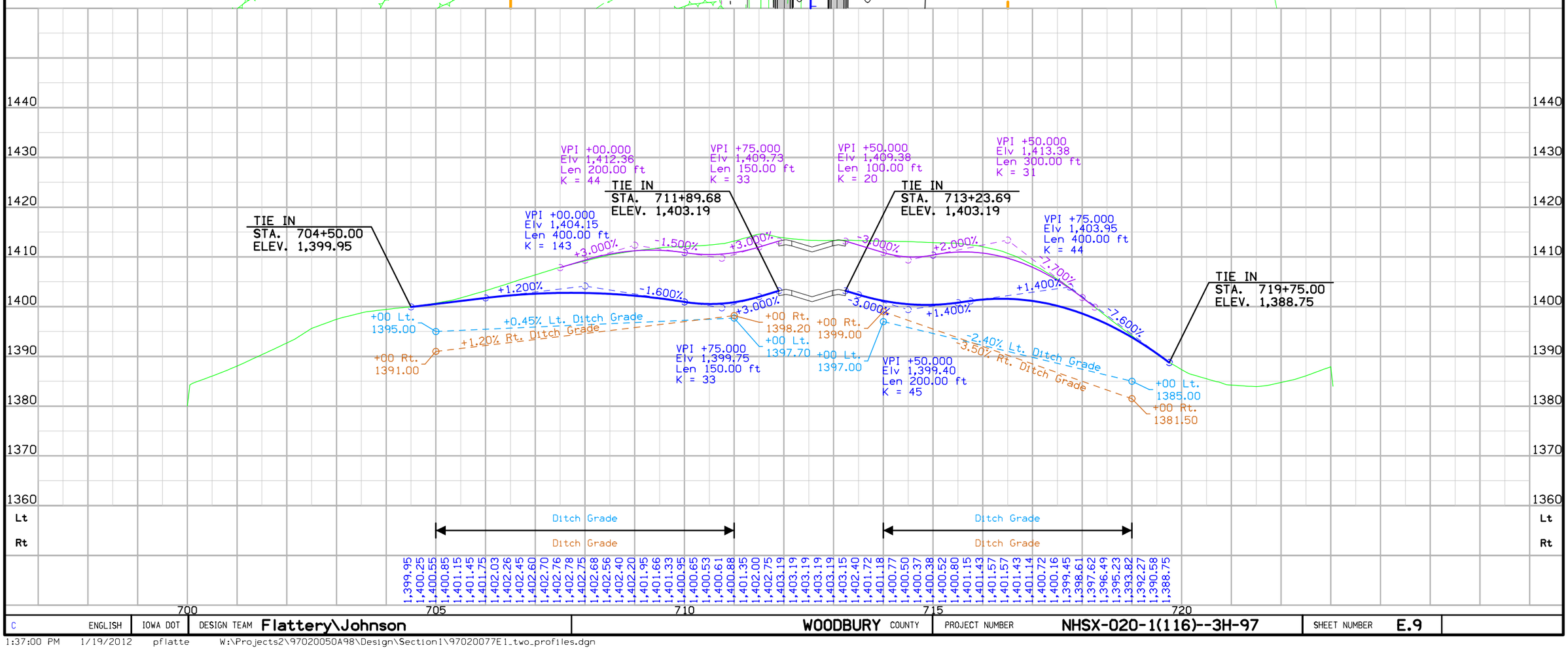
1:36:57 PM 1/19/2012 pflatte W:\Projects2\97020050A98\Design\Section1\97020077E1_two_profiles.dgn



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

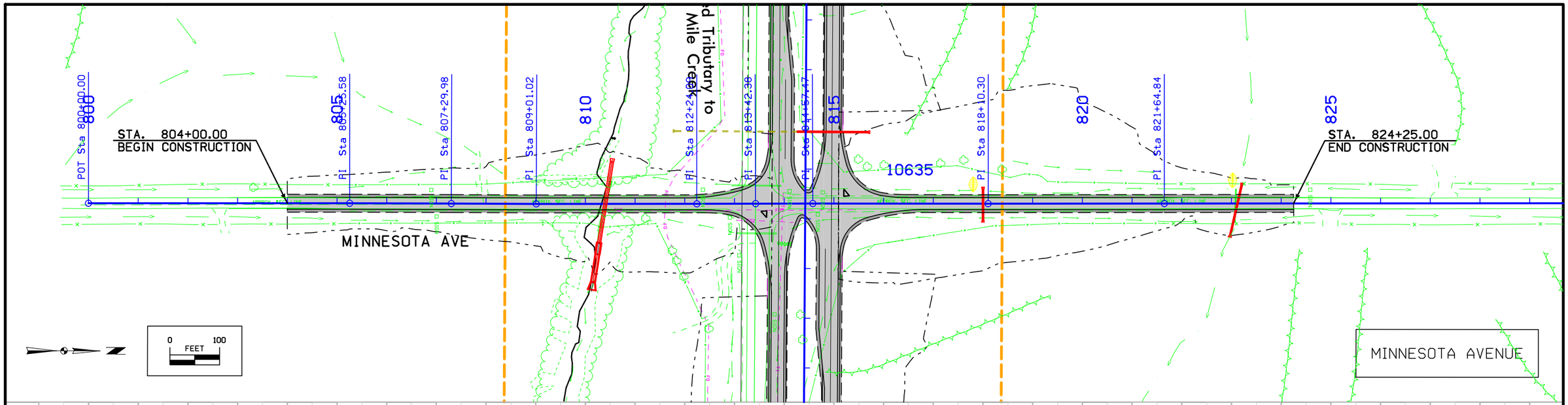
1:36:59 PM 1/19/2012 pflatte W:\Projects2\97020050A98\Design\Section1\97020077E1_two_profiles.dgn

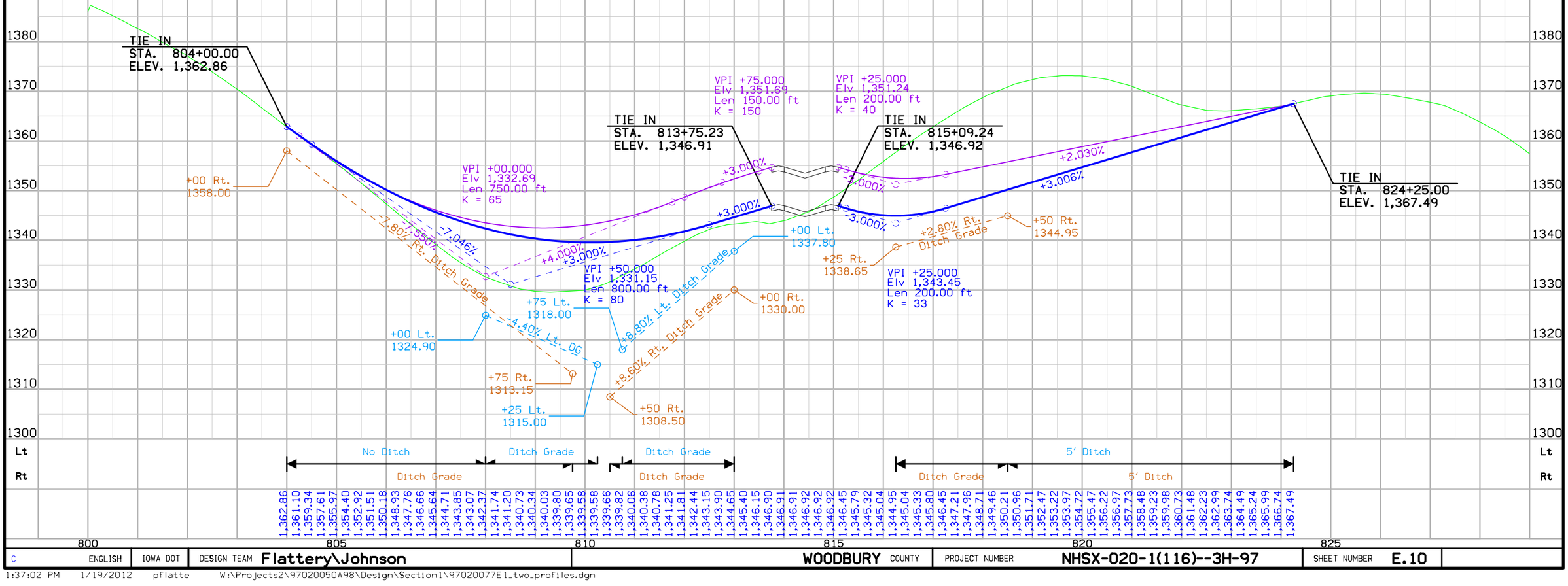




C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER E.9

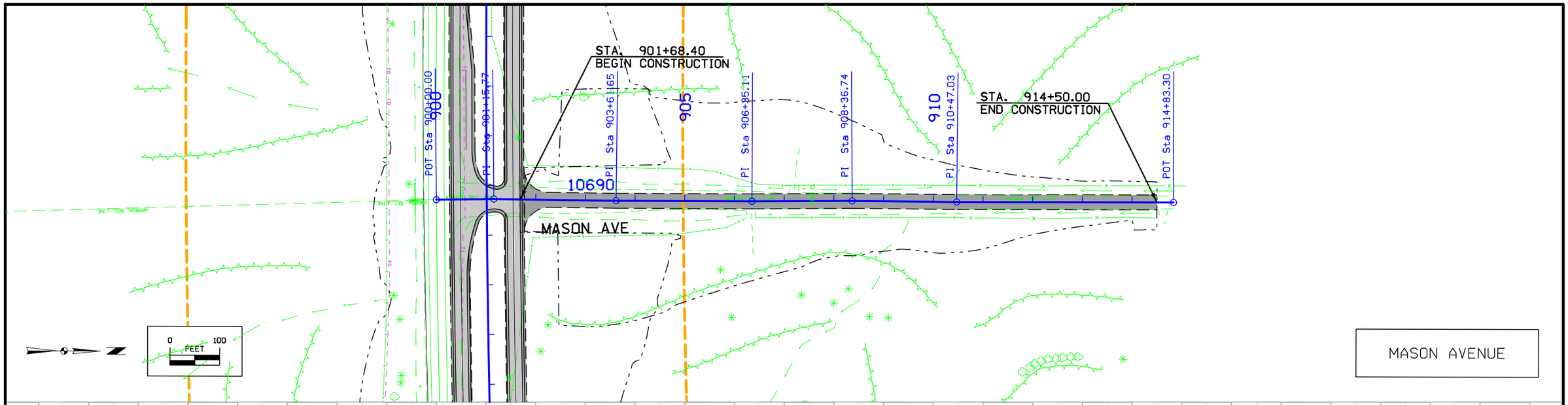
1:37:00 PM 1/19/2012 pflatte W:\Projects2\97020050A98\Design\Section1\97020077E1_two_profiles.dgn

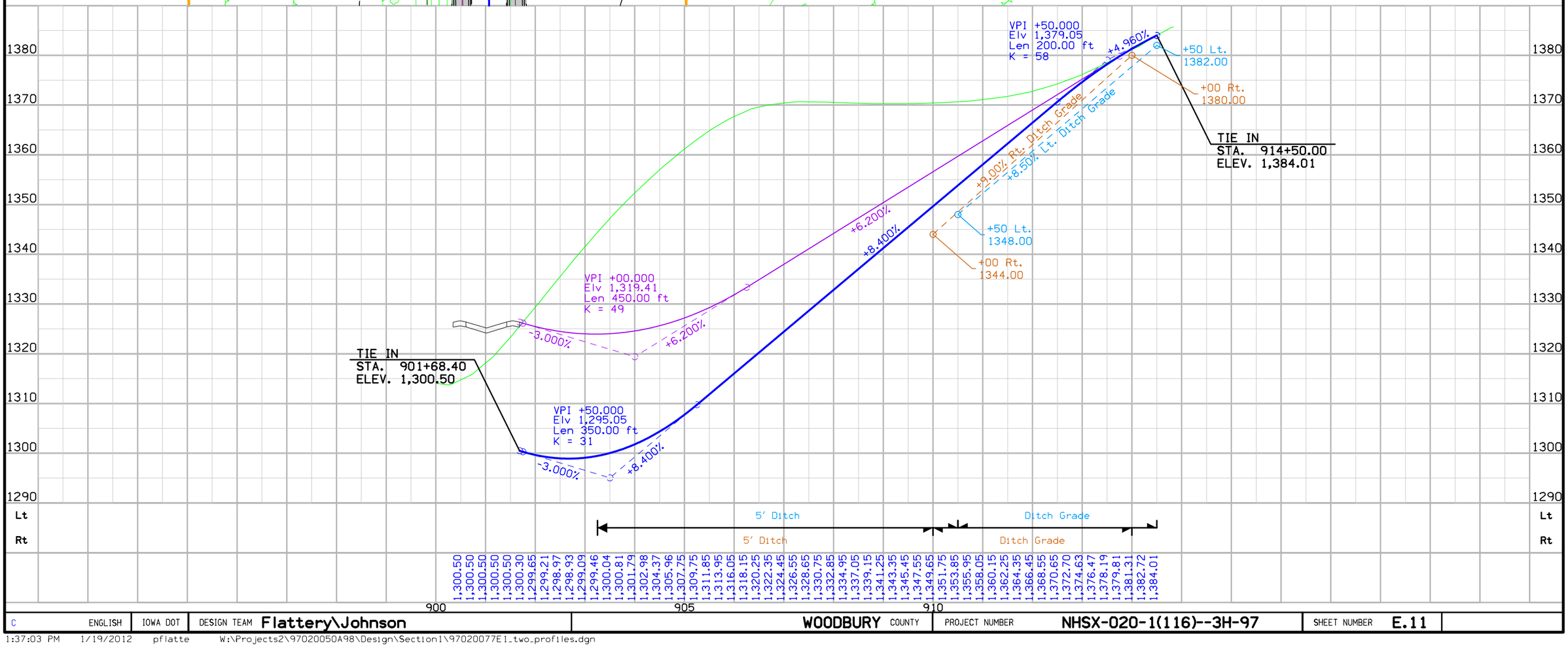




C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER E.10

1:37:02 PM 1/19/2012 pflatte W:\Projects2\97020050A98\Design\Section1\97020077E1_two_profiles.dgn

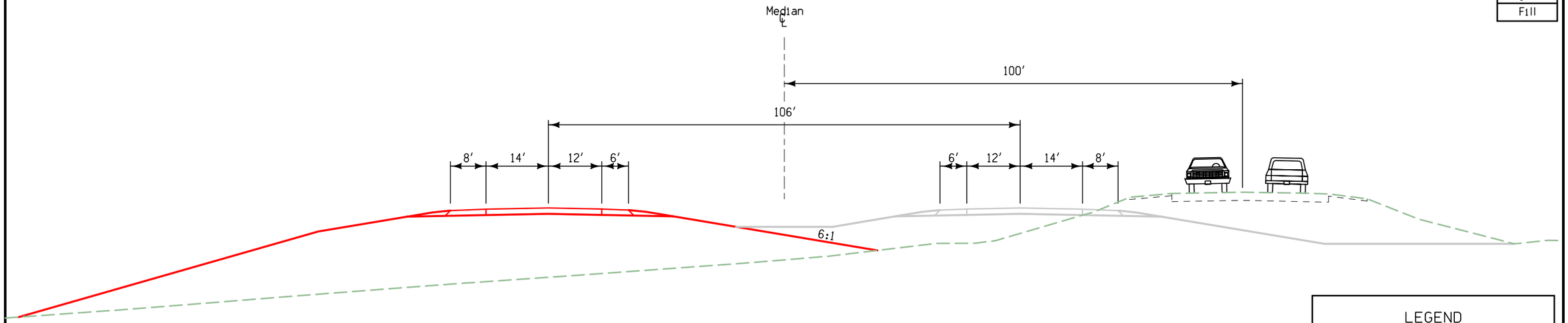




C	ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER E.11

1:37:03 PM 1/19/2012 pflatte W:\Projects2\97020050A98\Design\Section1\97020077E1_two_profiles.dgn

Stage 1&2
Fill

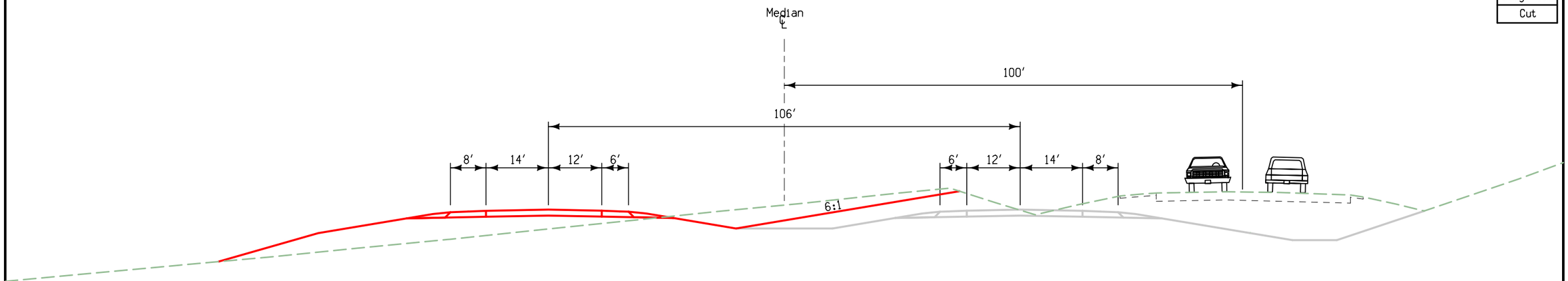


LEGEND

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

STAGE 1&2 (FILL)

Stage 1&2
Cut



LEGEND

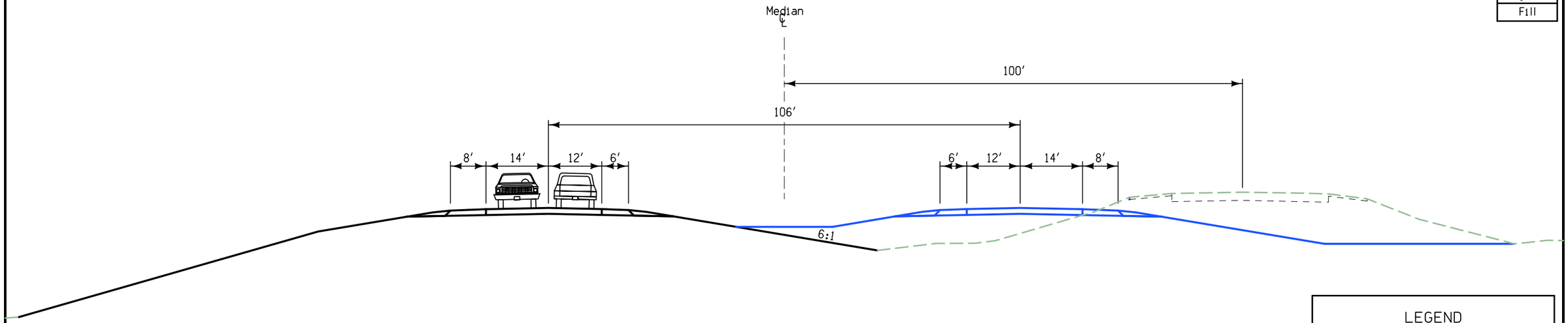
- STAGE 1&2 CONSTRUCTION
- FUTURE CONSTRUCTION
- EXISTING GROUND
- EXISTING PAVEMENT

STAGE 1&2 (CUT)

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

3:56:28 PM 10/5/2011 aevans W:\Projects2\97020050A98\Design\Section1\97020077J.sht

Stage 3&4
Fill

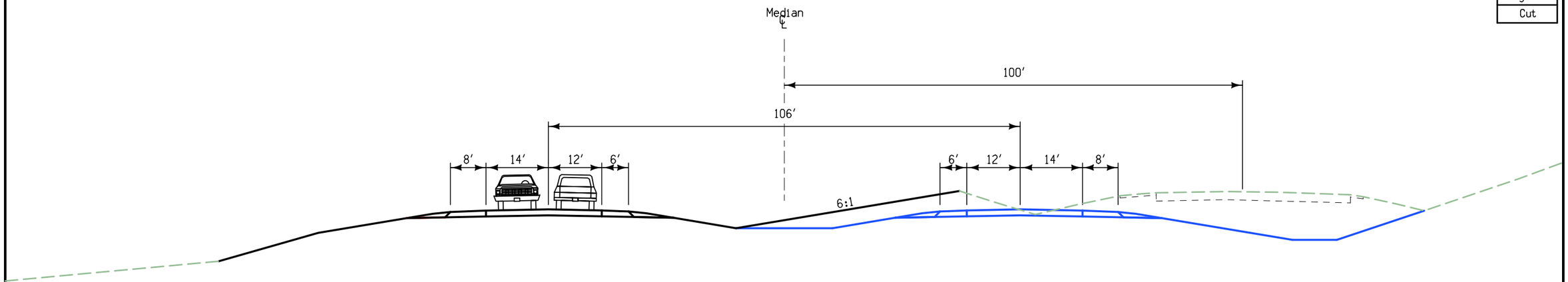


LEGEND

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

STAGE 3&4 (FILL)

Stage 3&4
Cut

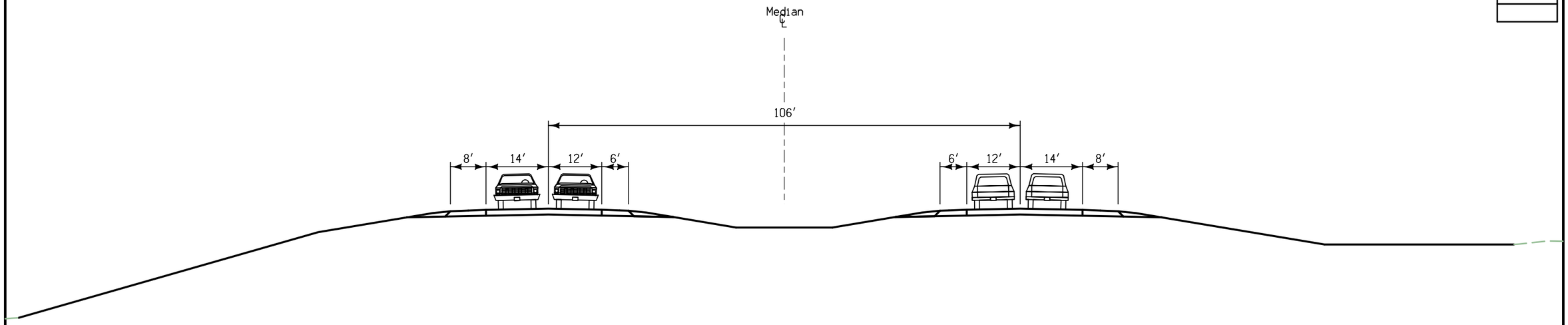


LEGEND

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

STAGE 3&4 (CUT)

Final



FINAL

LEGEND

COMPLETED CONSTRUCTION

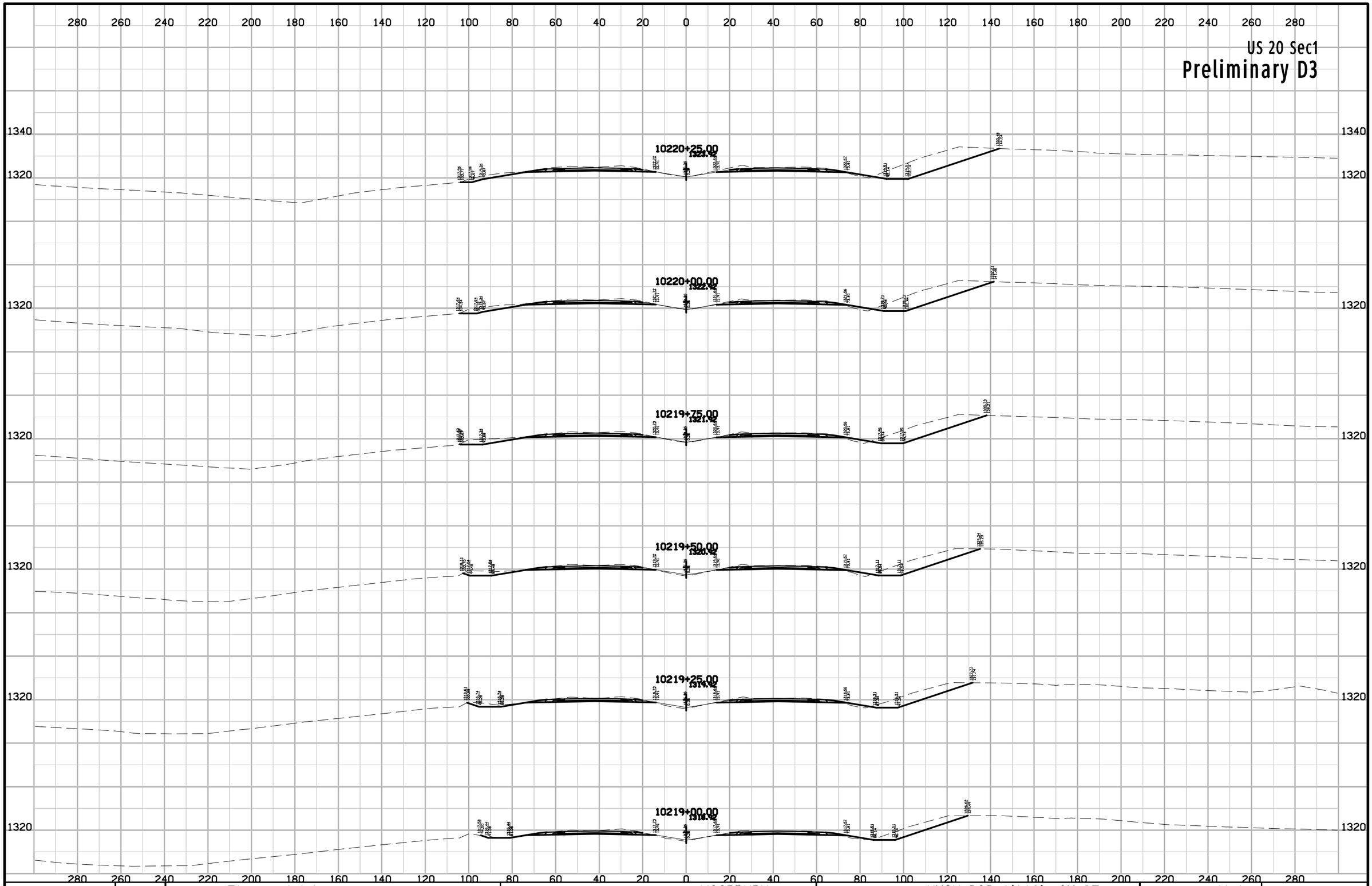
EXISTING GROUND

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

3:56:28 PM 10/5/2011 aevans W:\Projects2\97020050A98\Design\Section1\97020077J.sht

US 20 Sec1

Preliminary D3



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

2:15:39 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

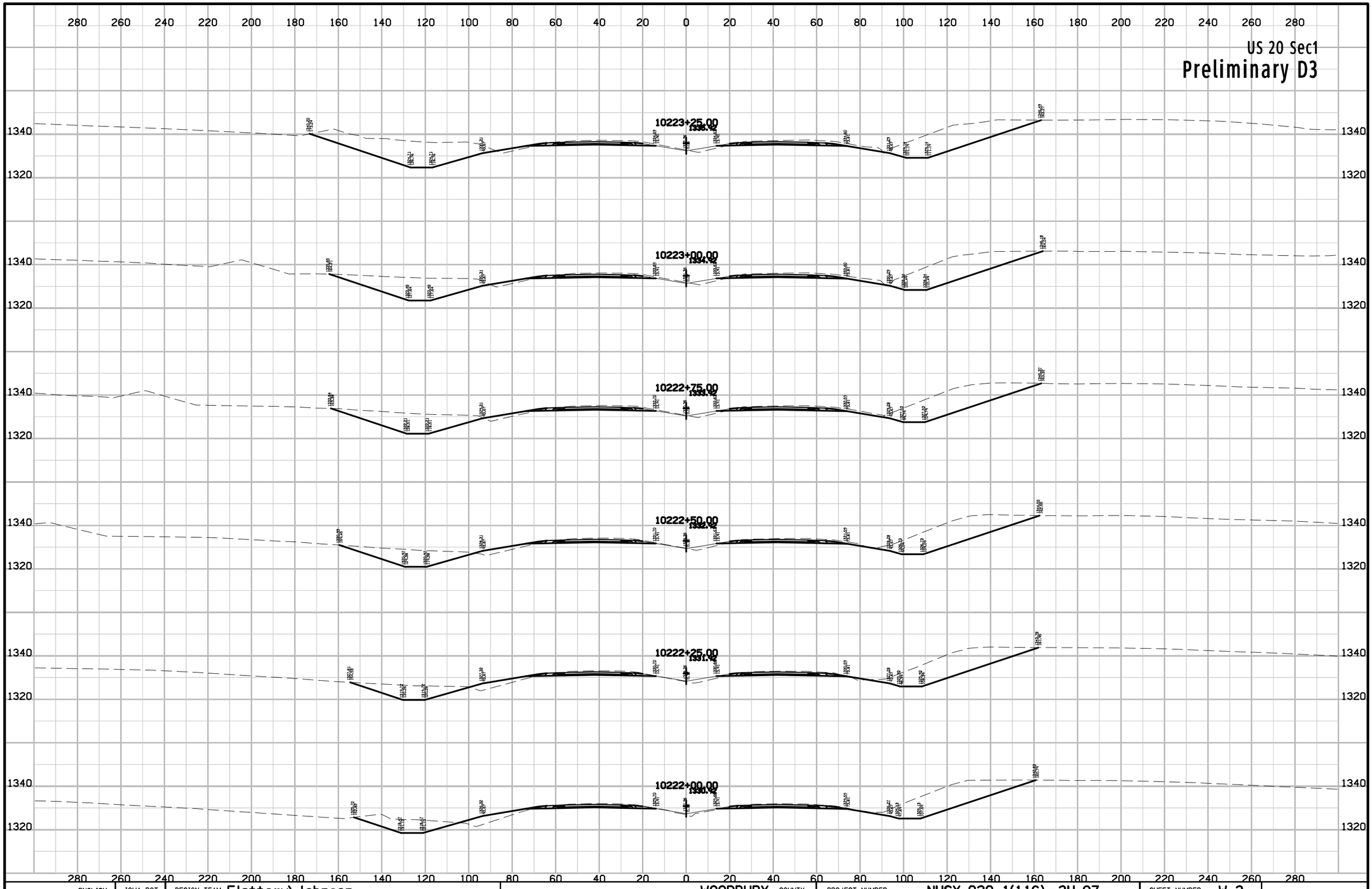
Preliminary D3

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

2:15:40 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

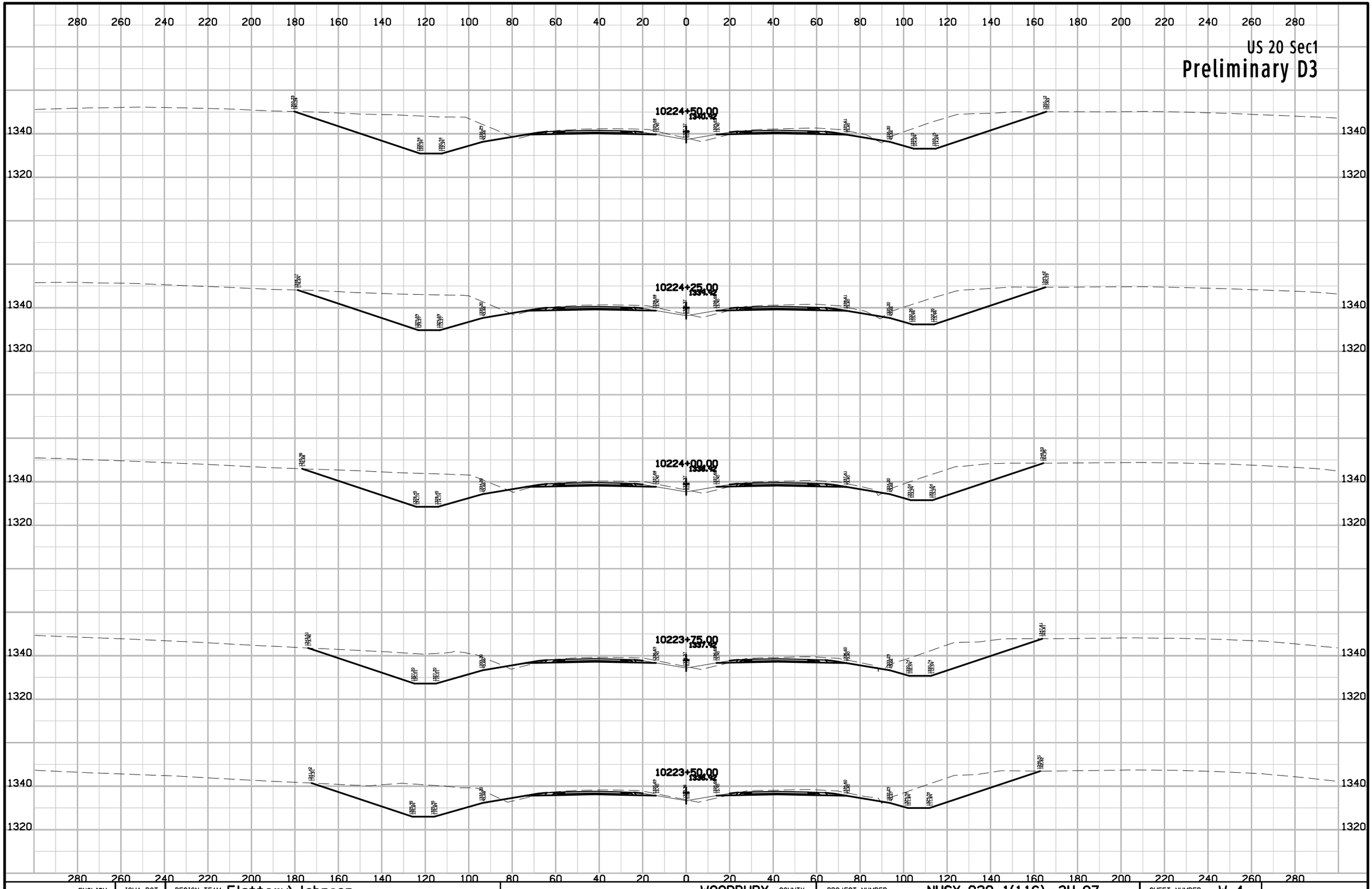


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.3

2:15:40 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

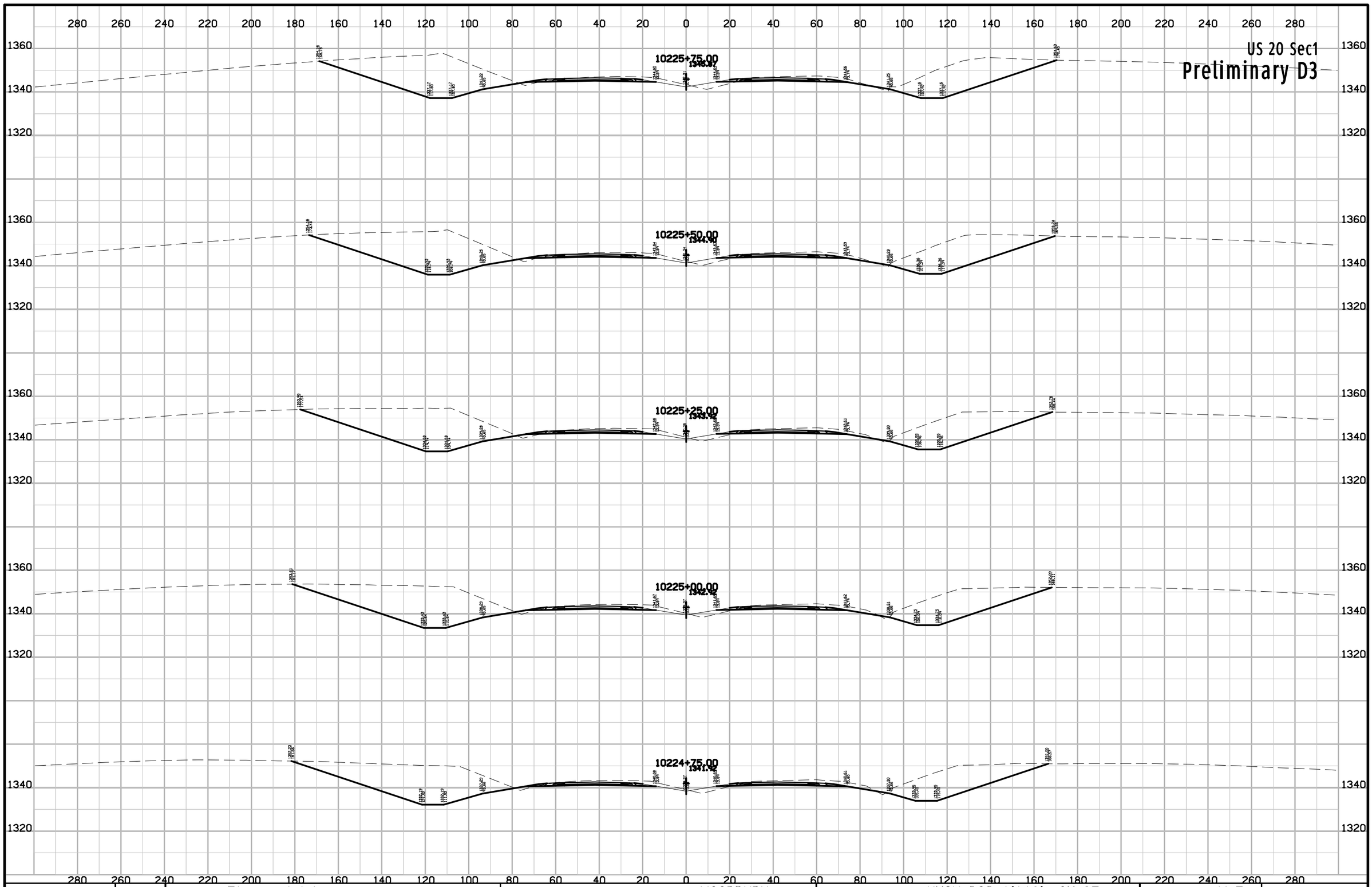


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.4

2:15:41 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

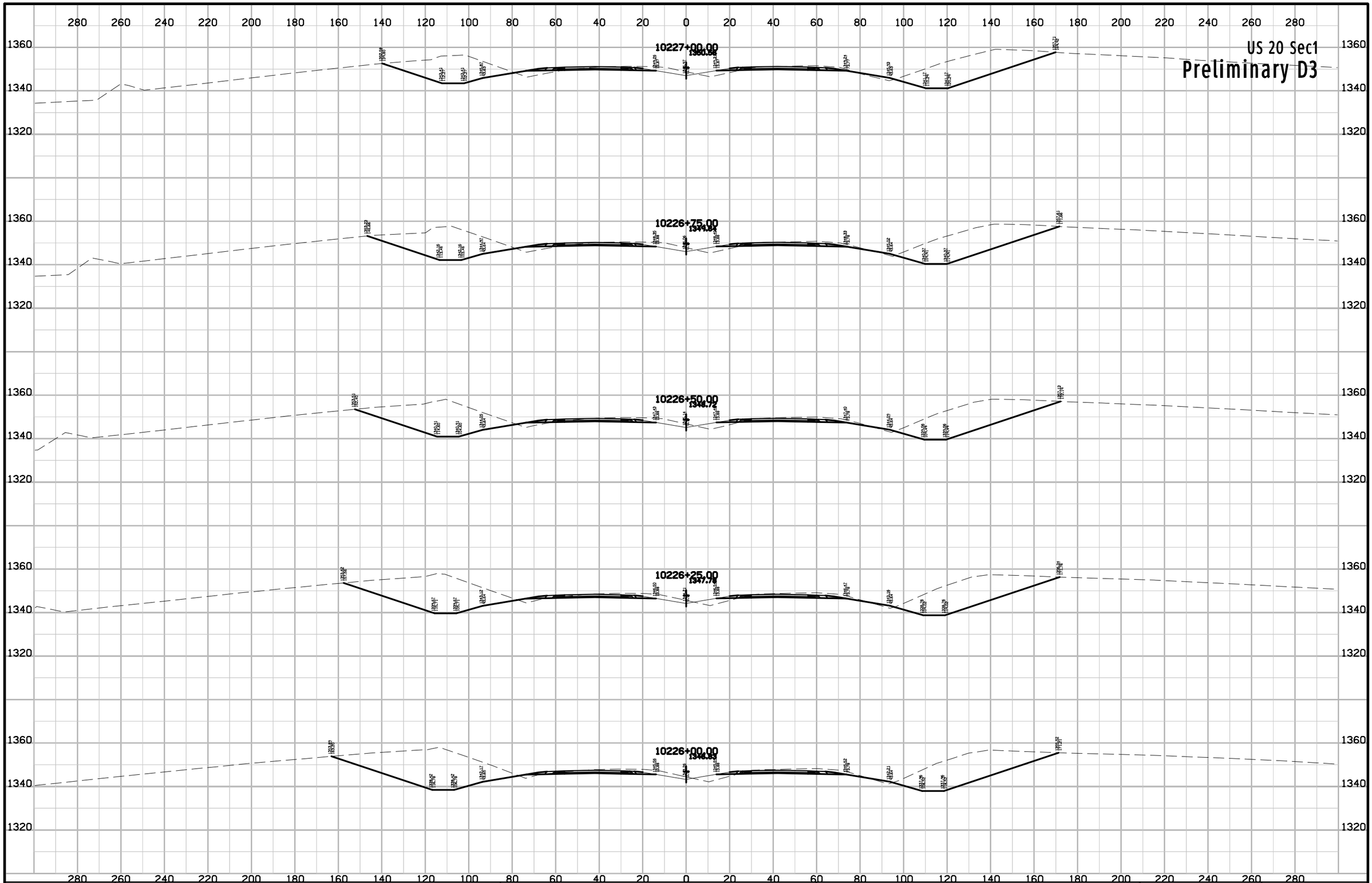


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.5

2:15:42 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

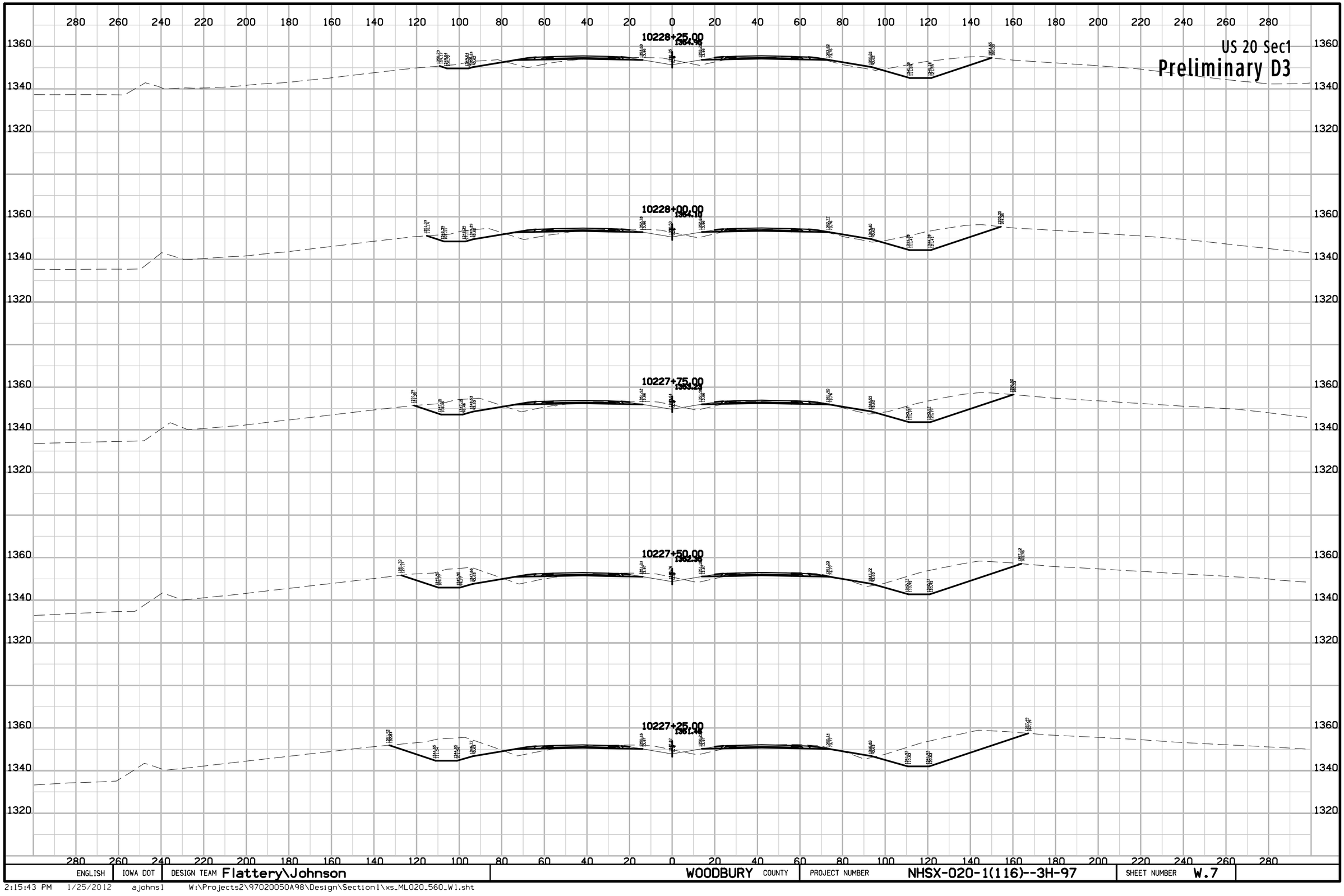


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY	COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.6

2:15:42 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

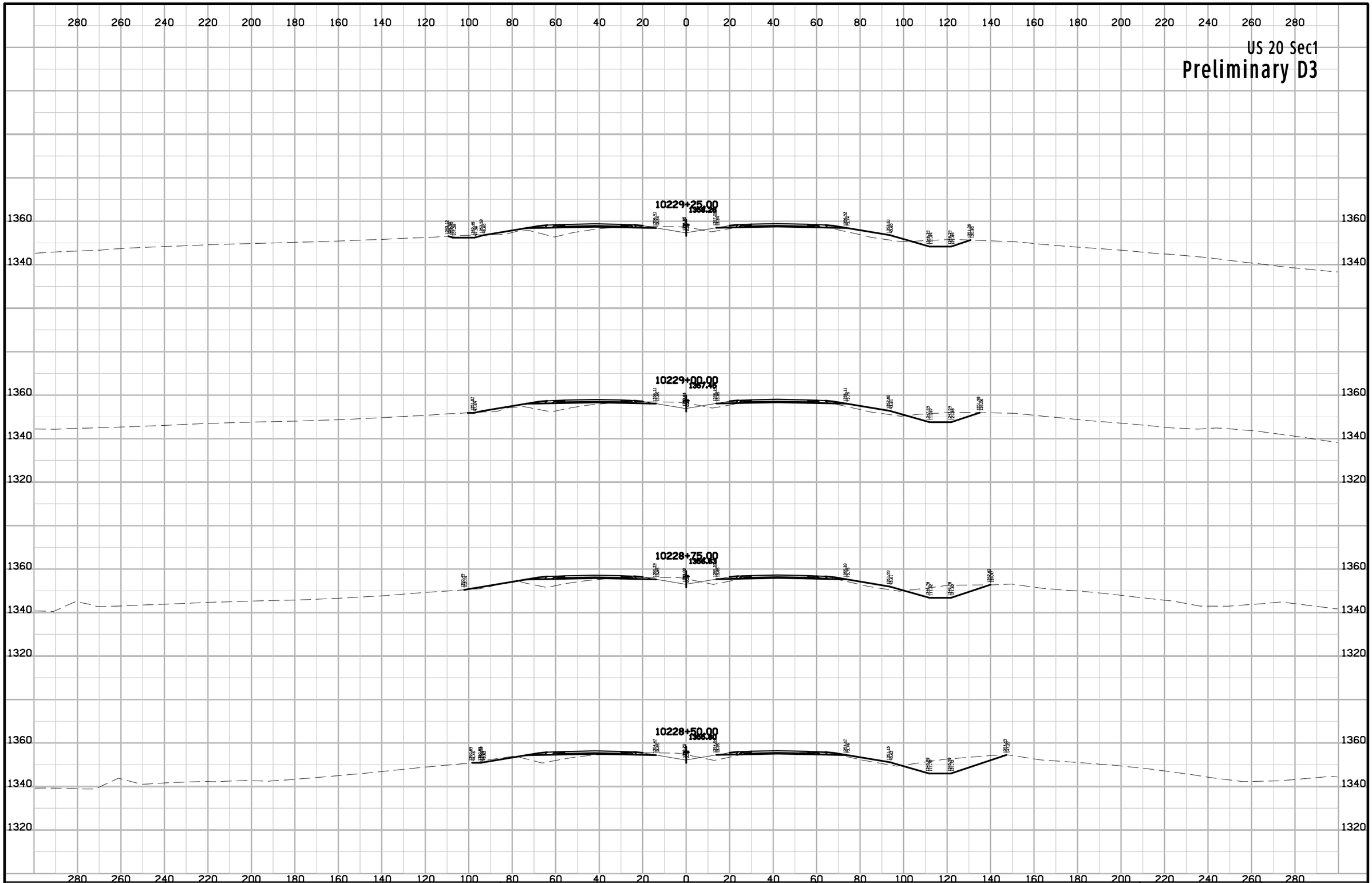


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.7

2:15:43 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

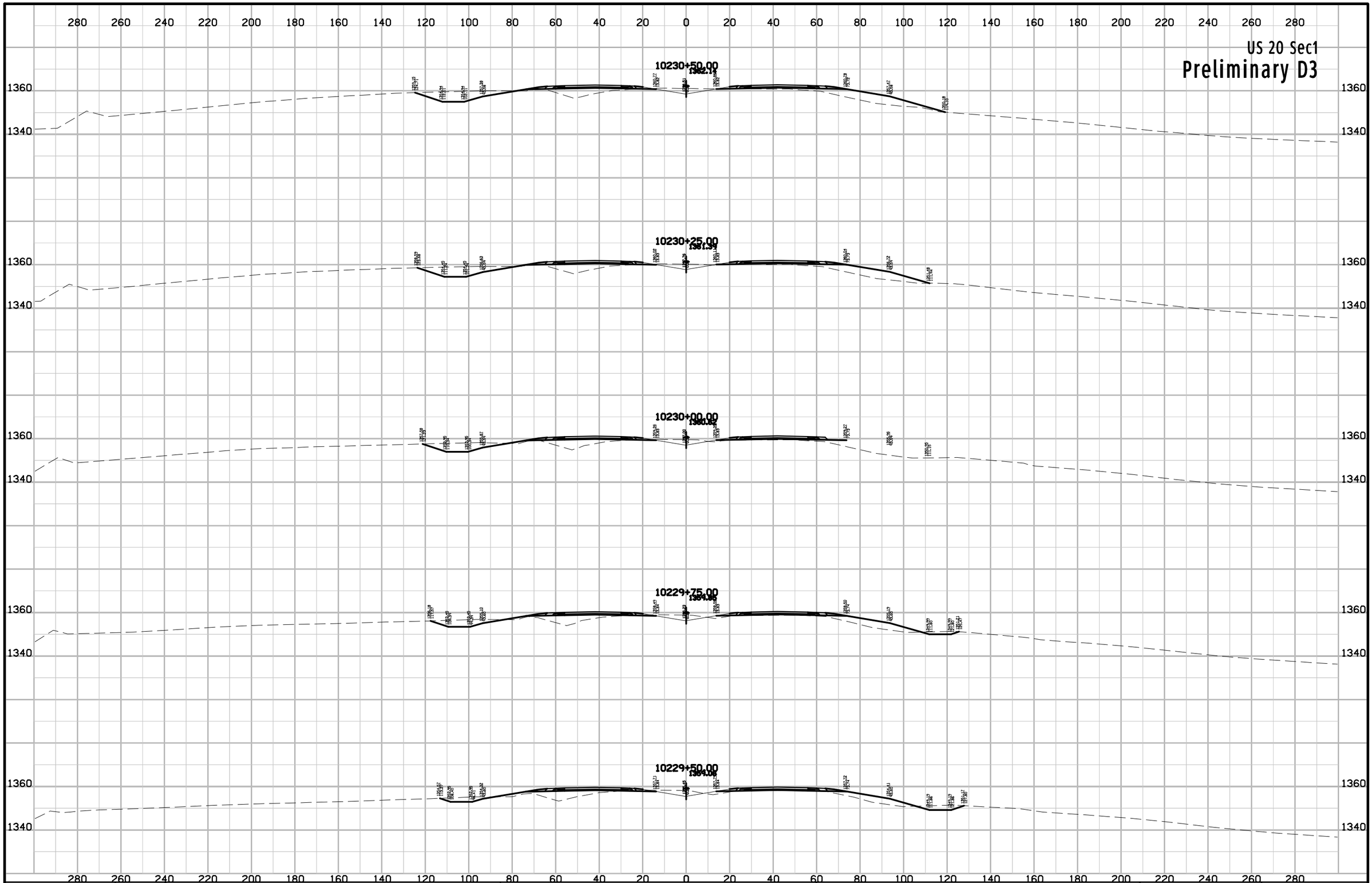


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.8

2:15:44 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

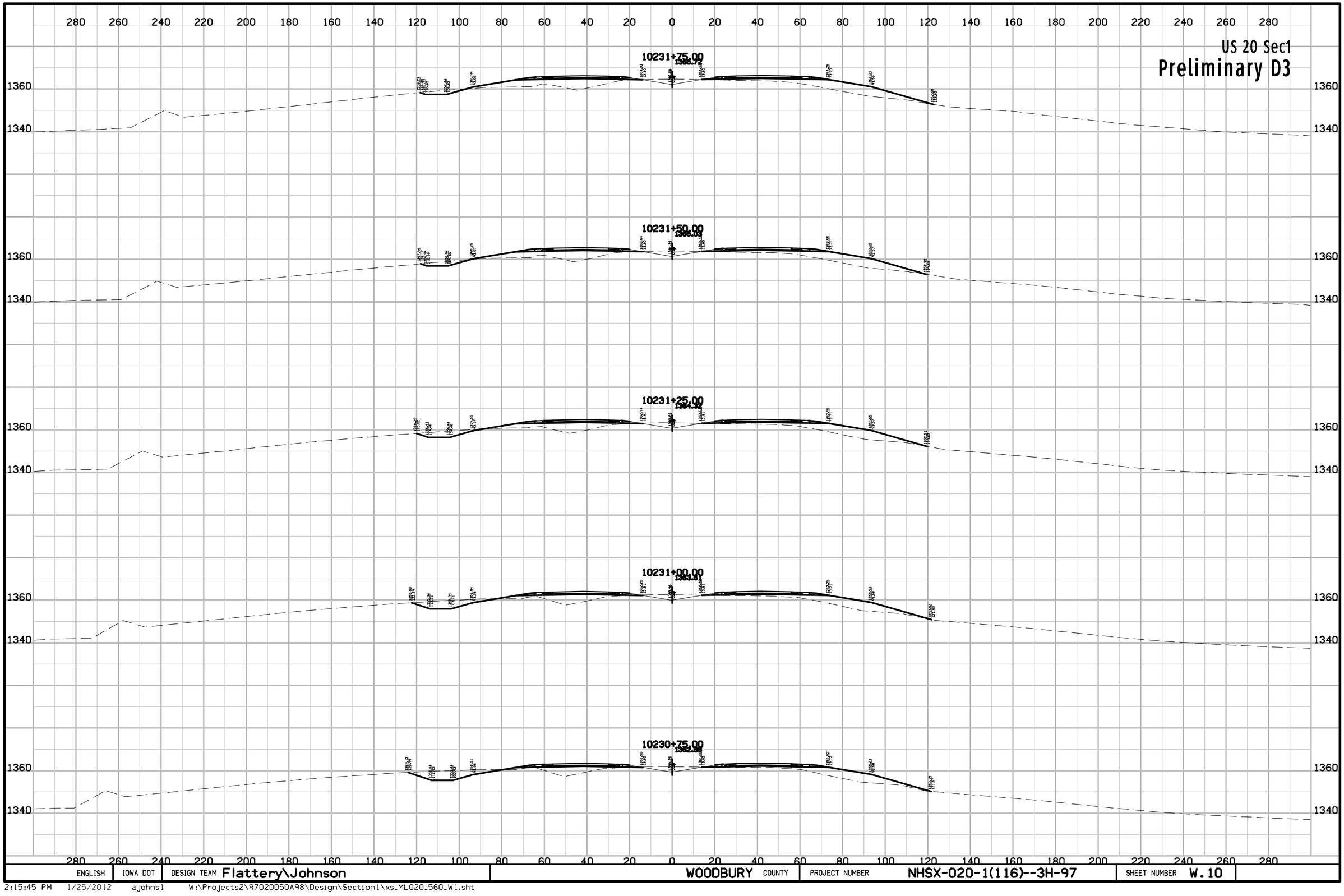


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.9

2:15:45 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

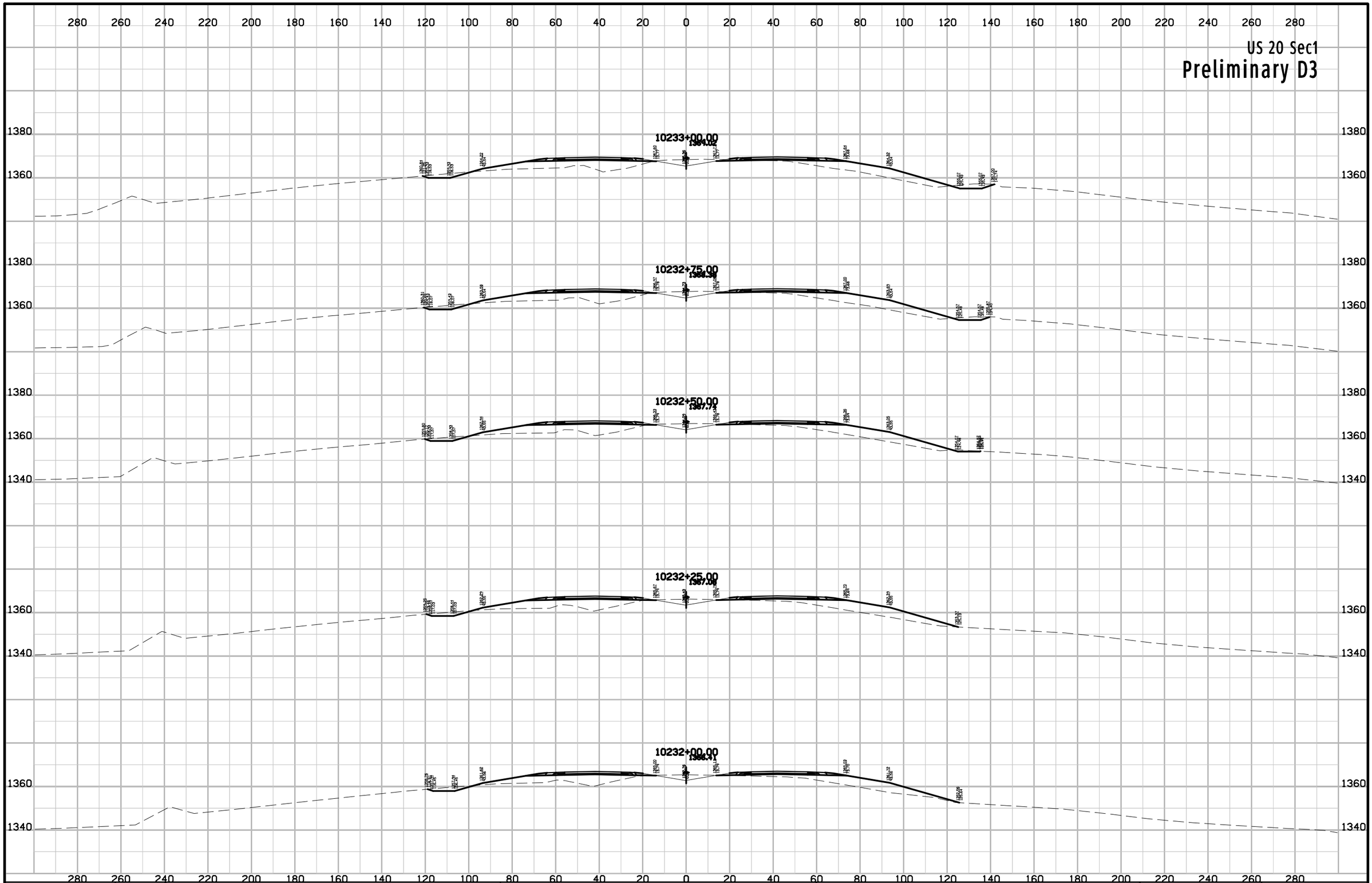


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.10	

2:15:45 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

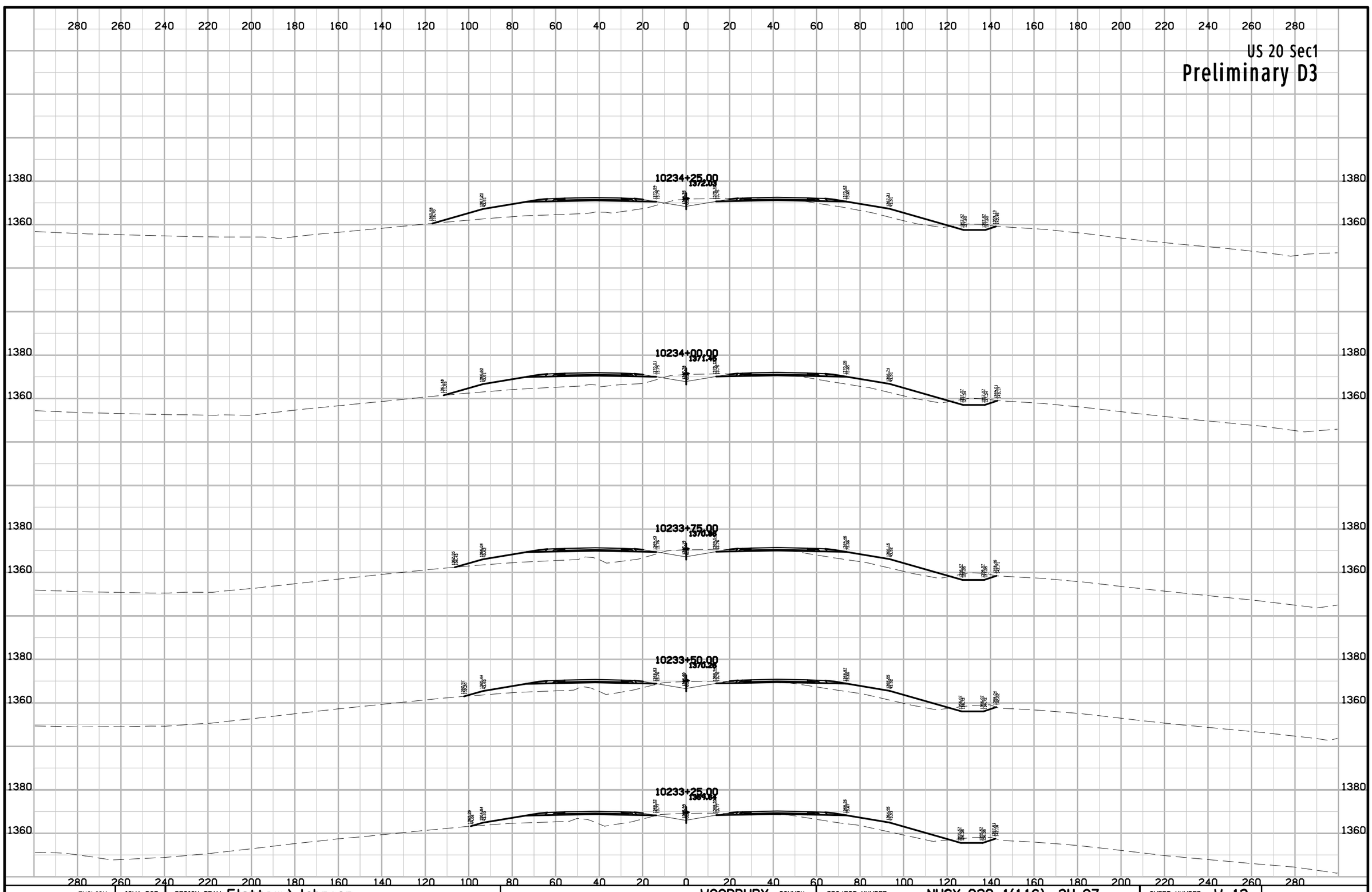


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.11

2:15:46 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

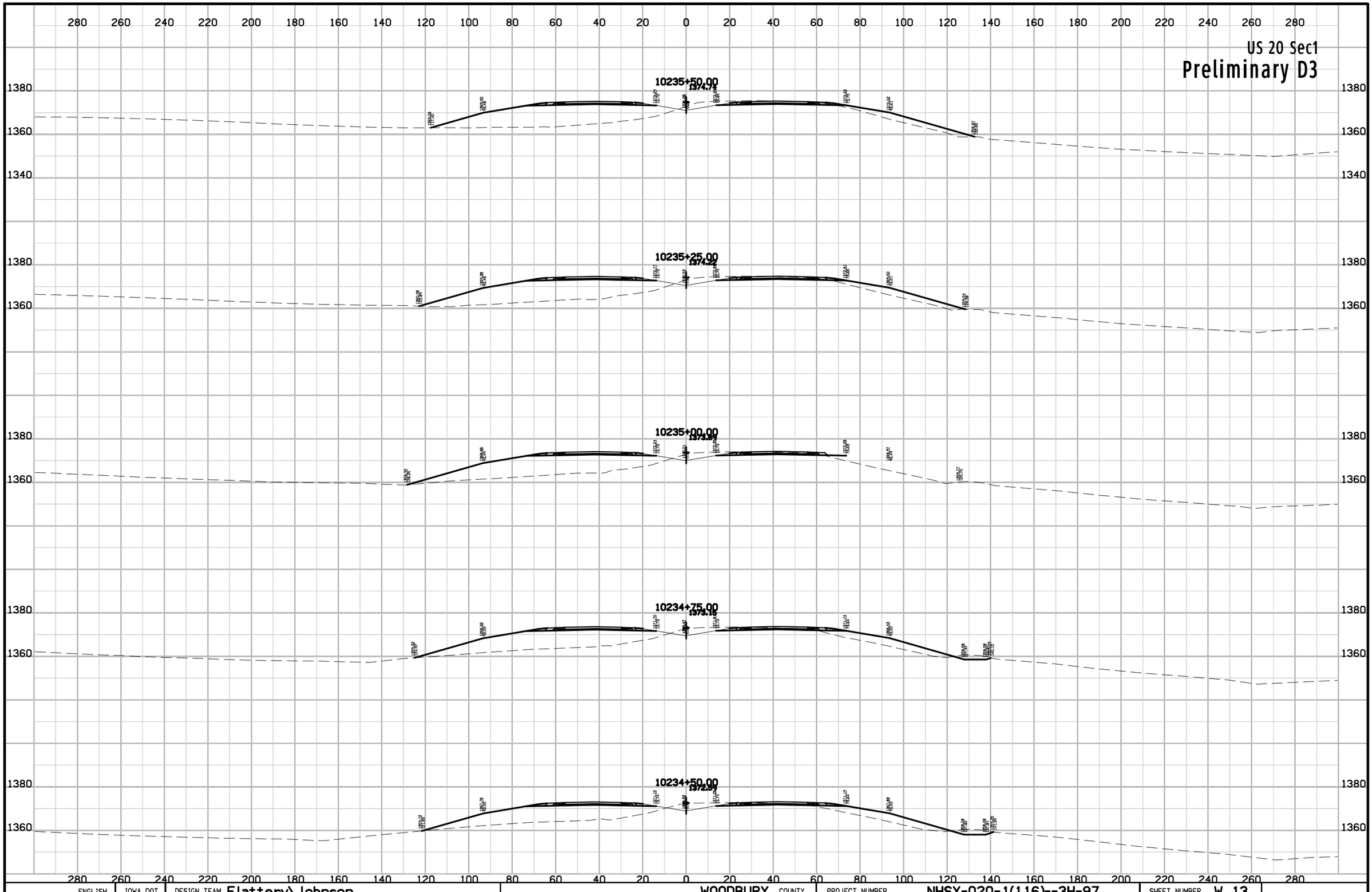


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.12

2:15:47 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

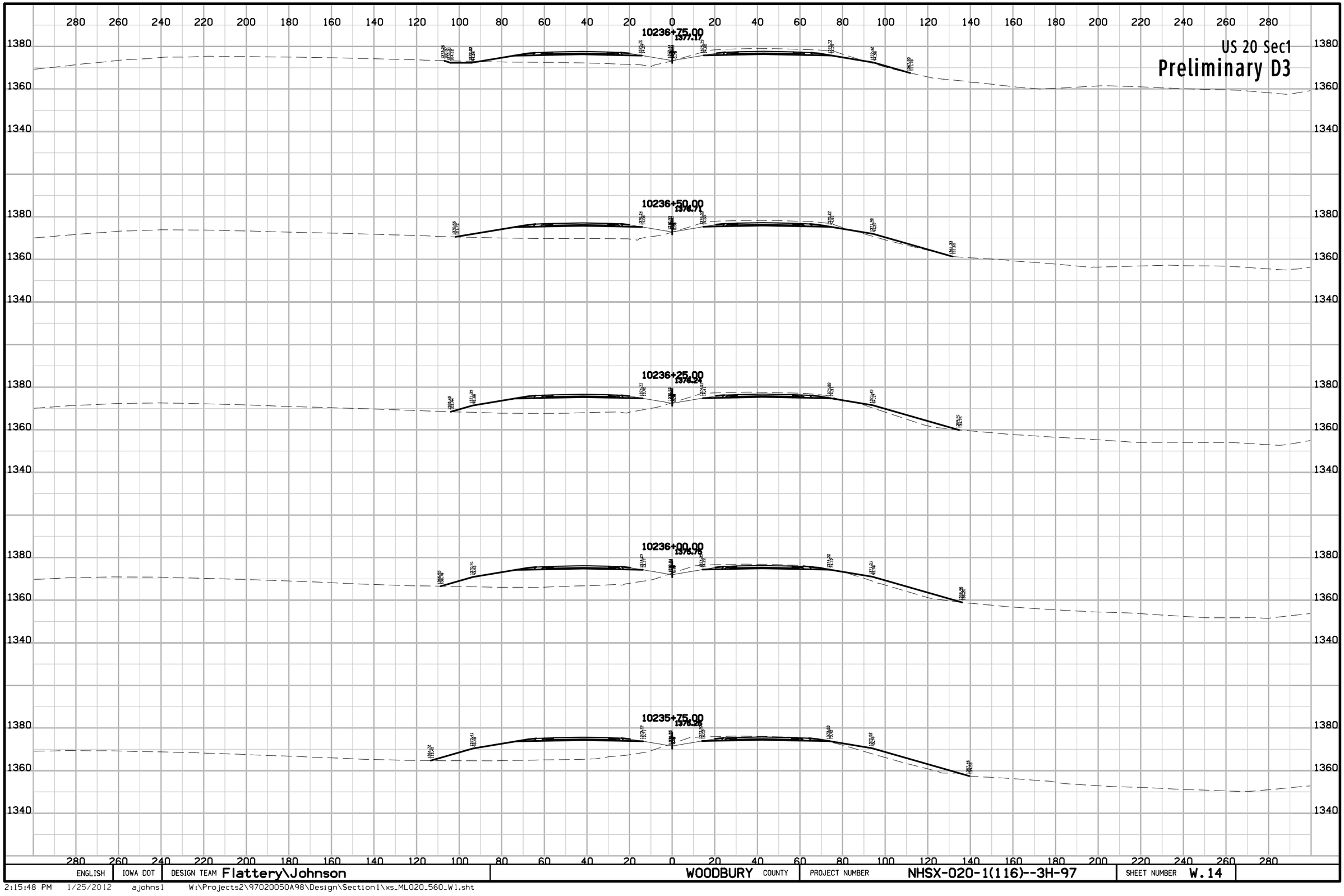


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.13

2:15:47 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

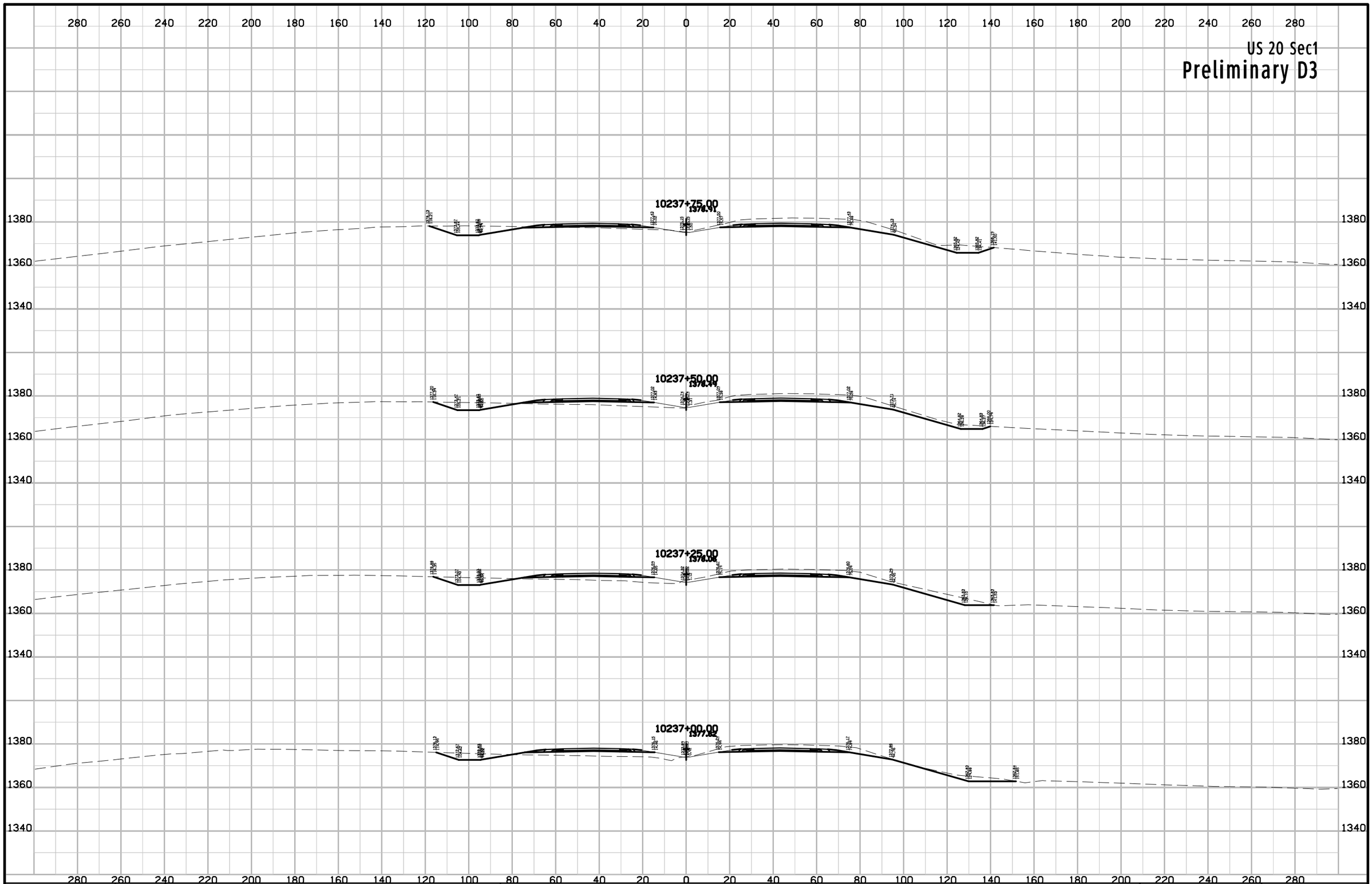


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.14

2:15:48 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

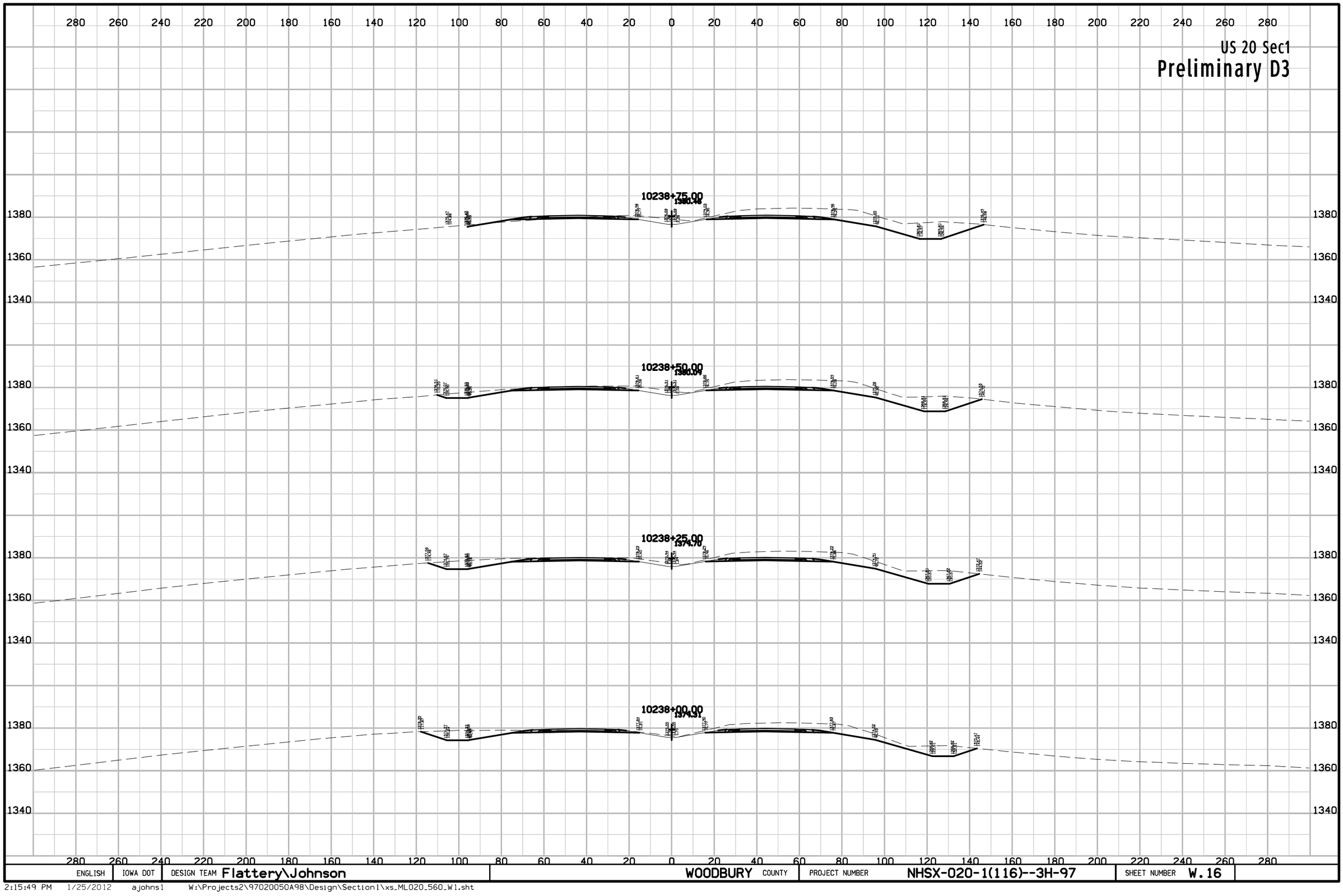


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.15

2:15:49 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

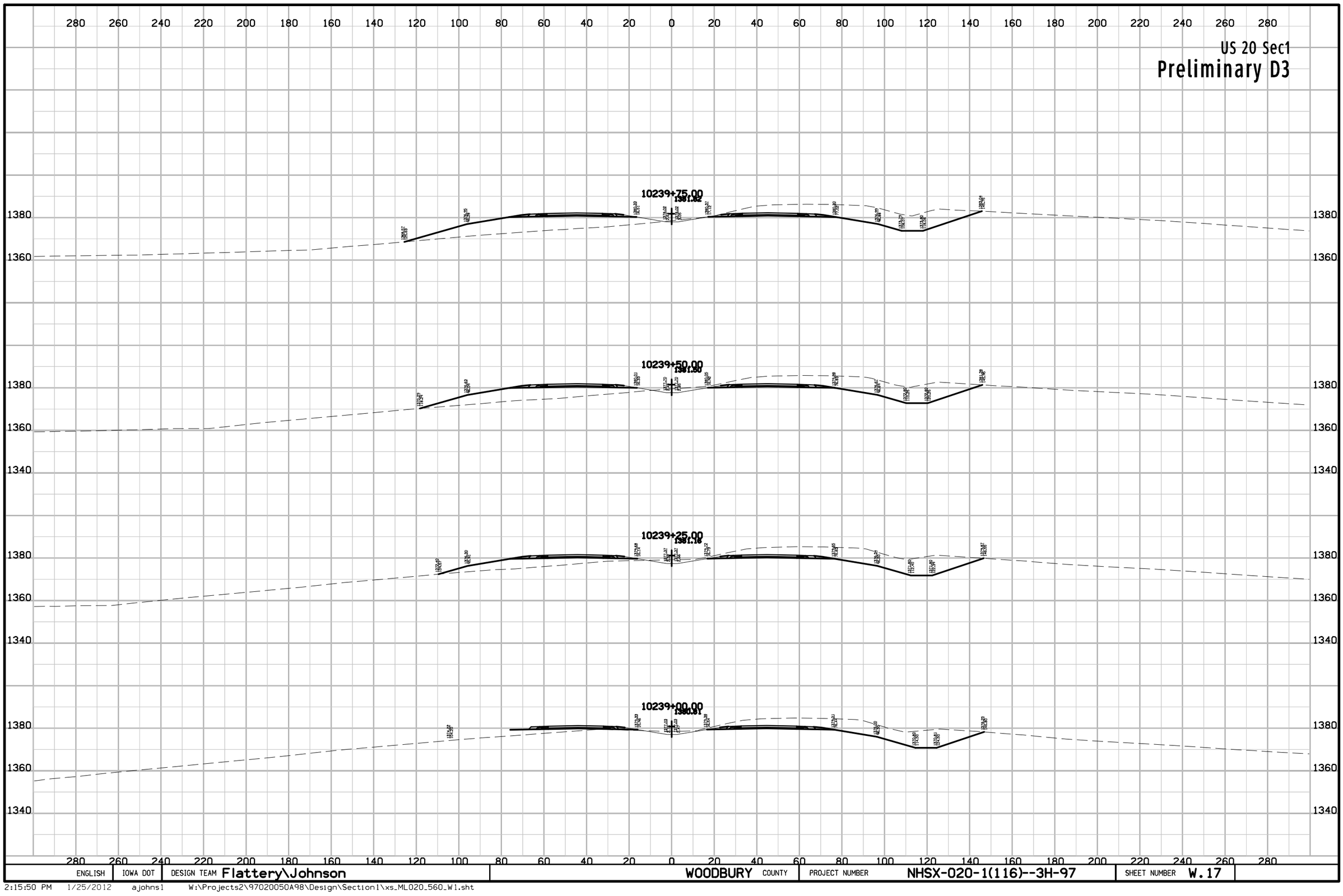


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.16

2:15:49 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

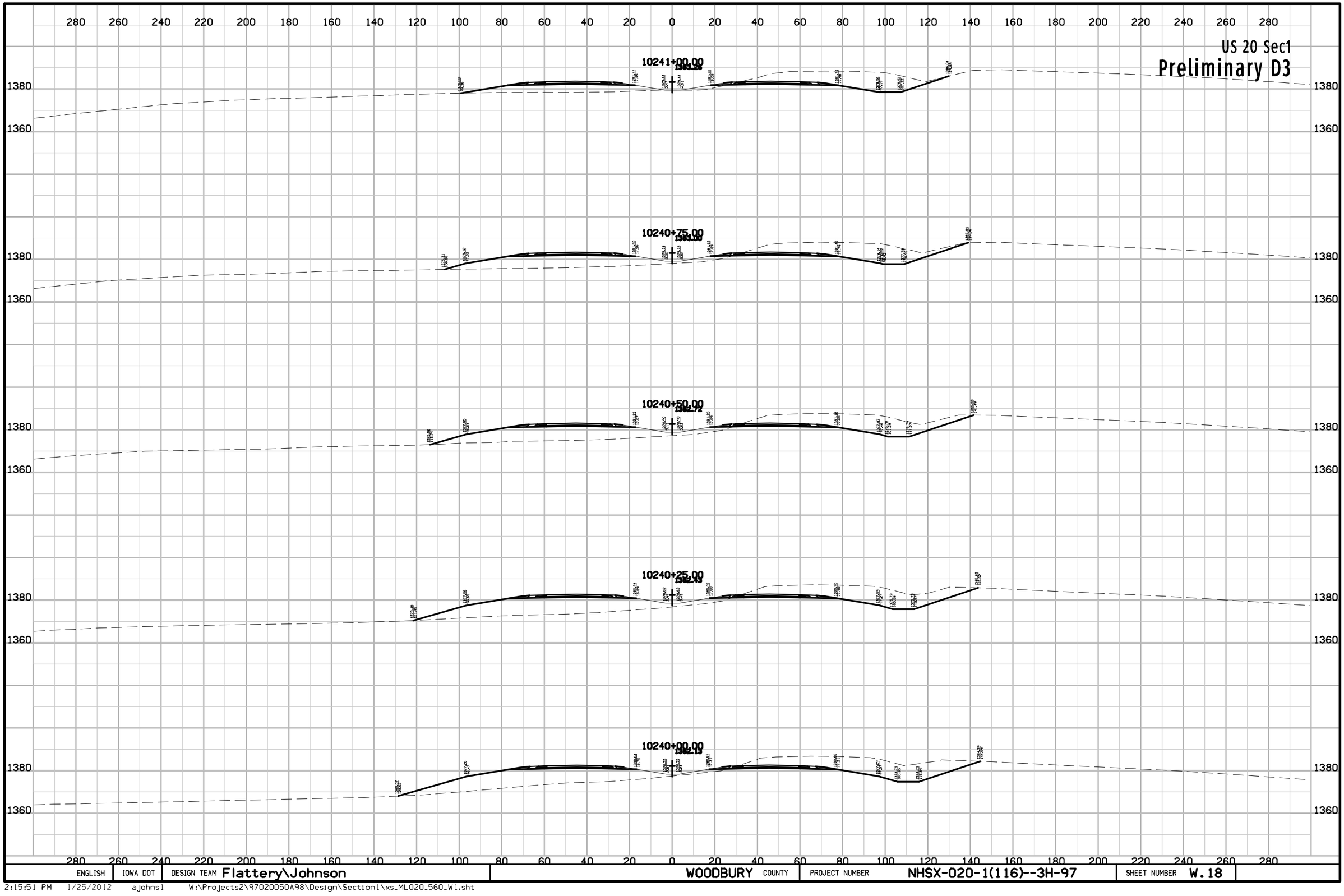


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.17

2:15:50 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

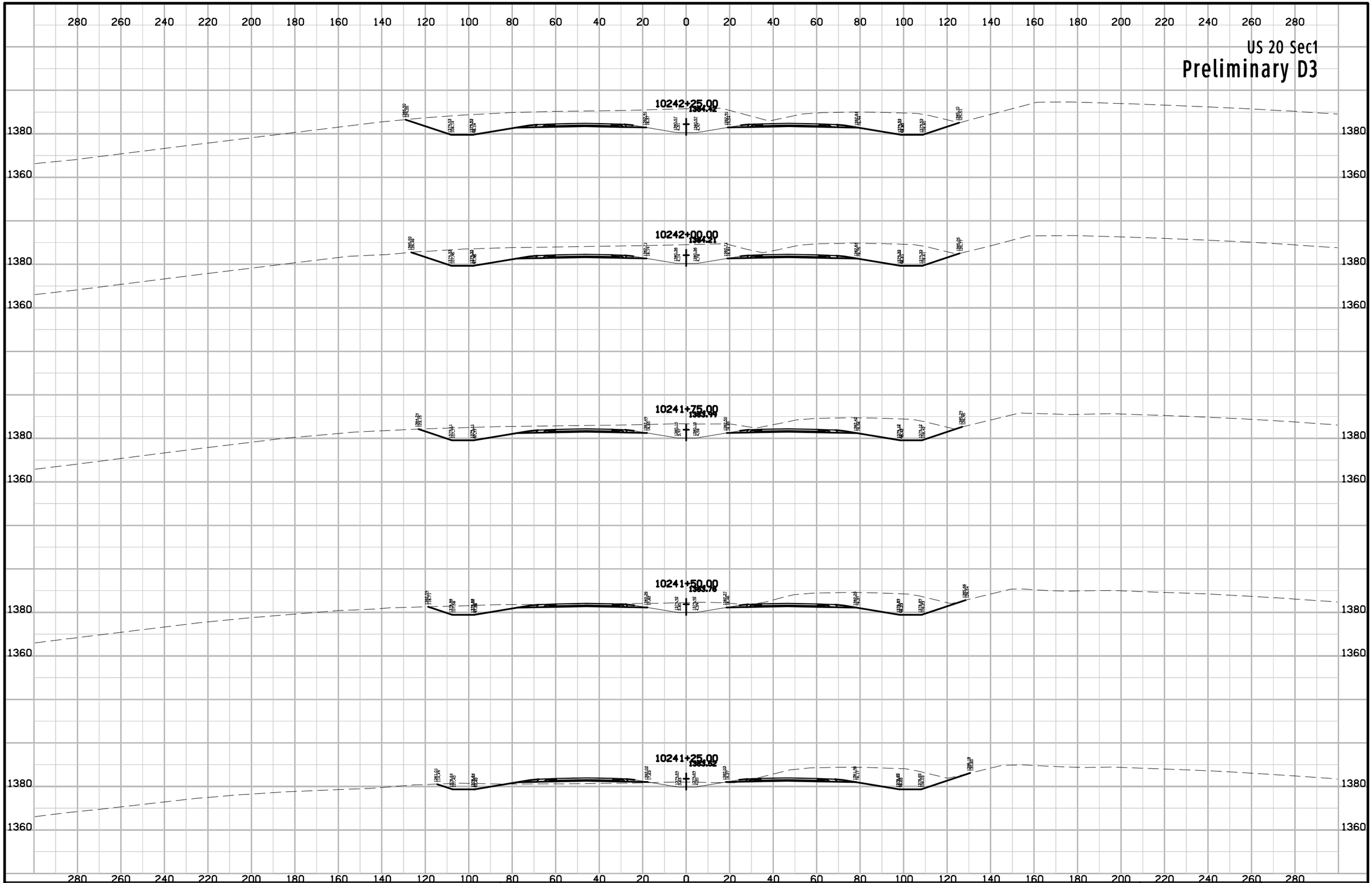


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.18

2:15:51 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

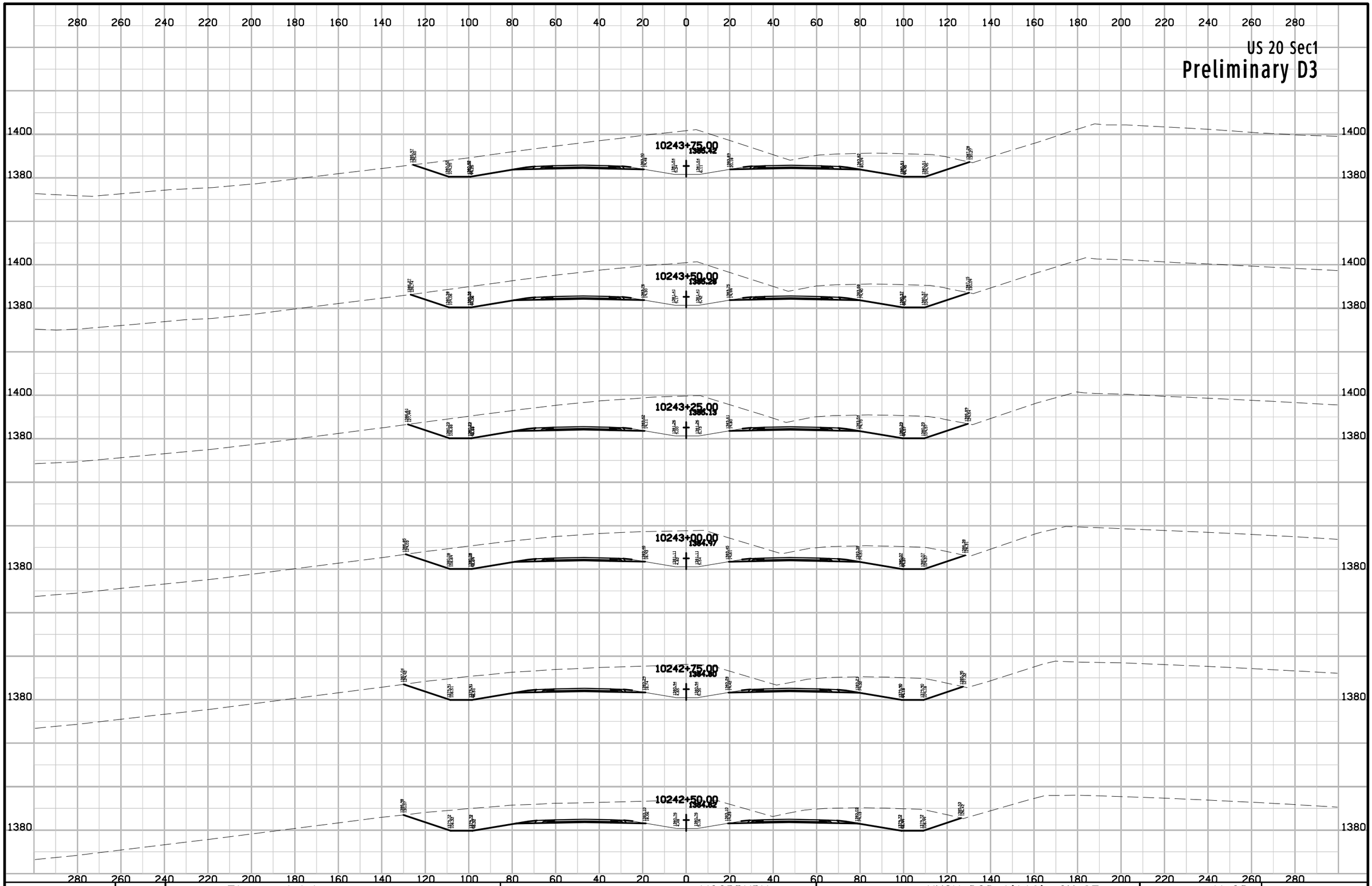


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.19

2:15:52 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

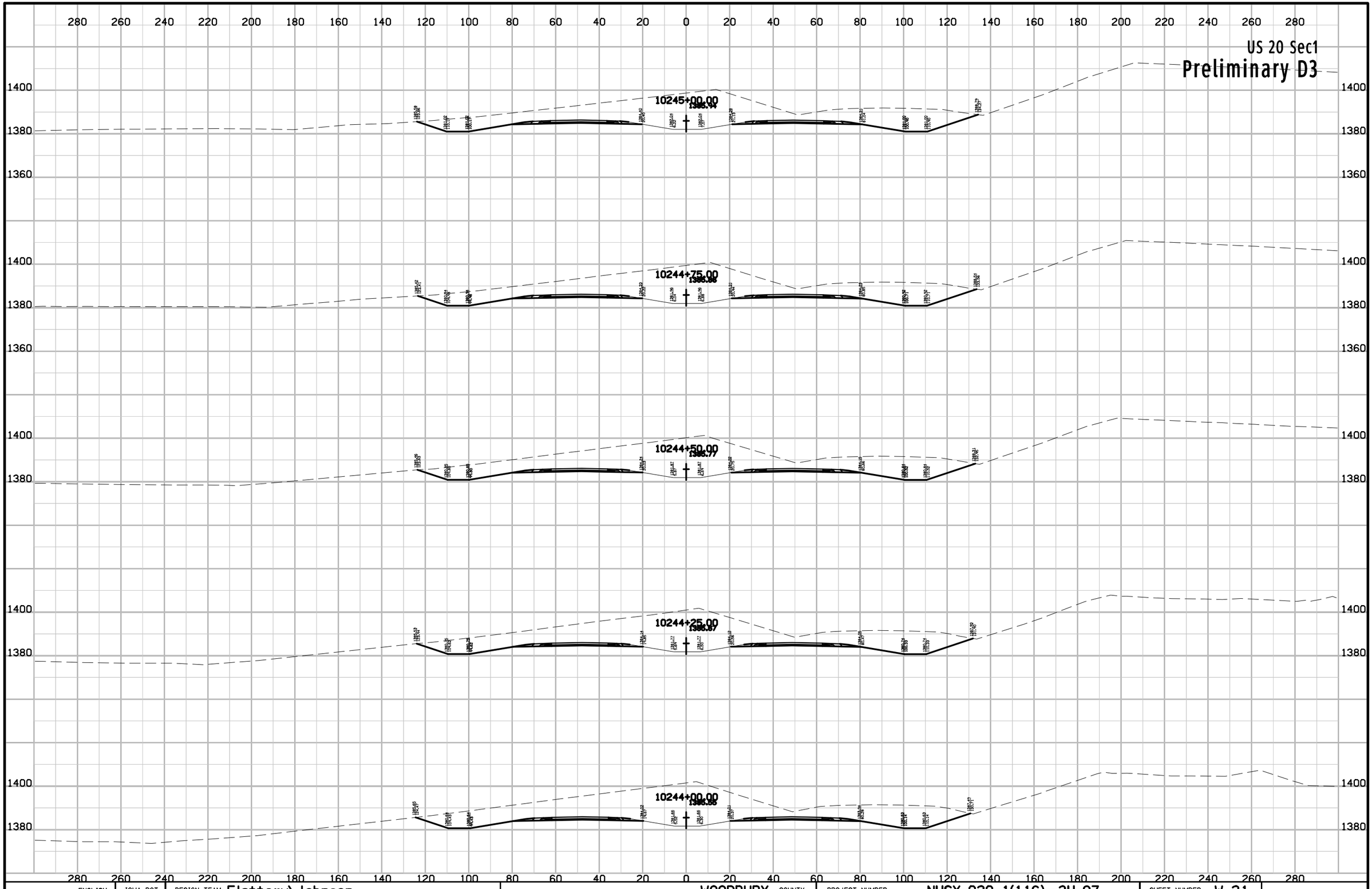


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.20

2:15:52 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

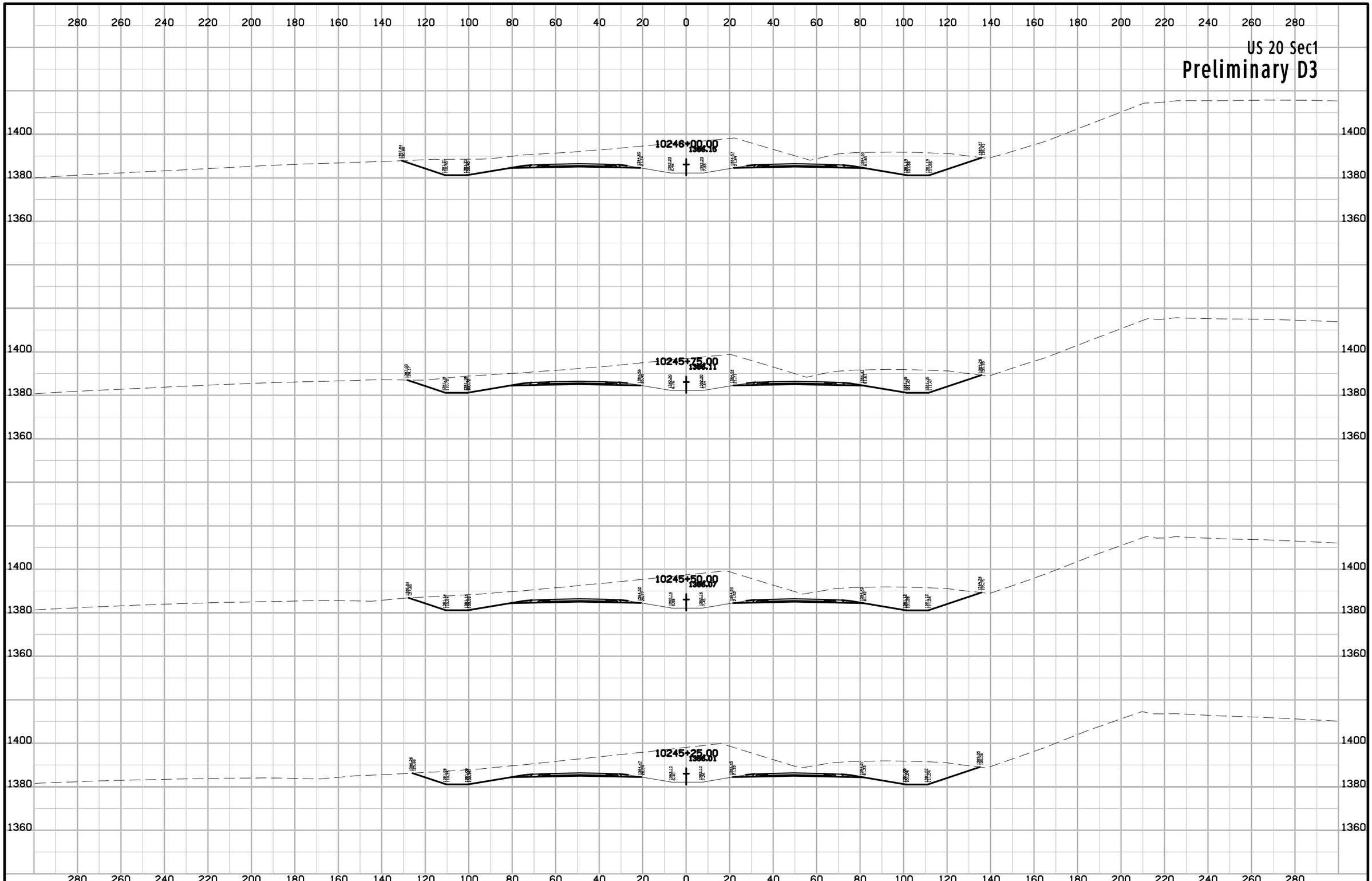


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.21

2:15:53 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

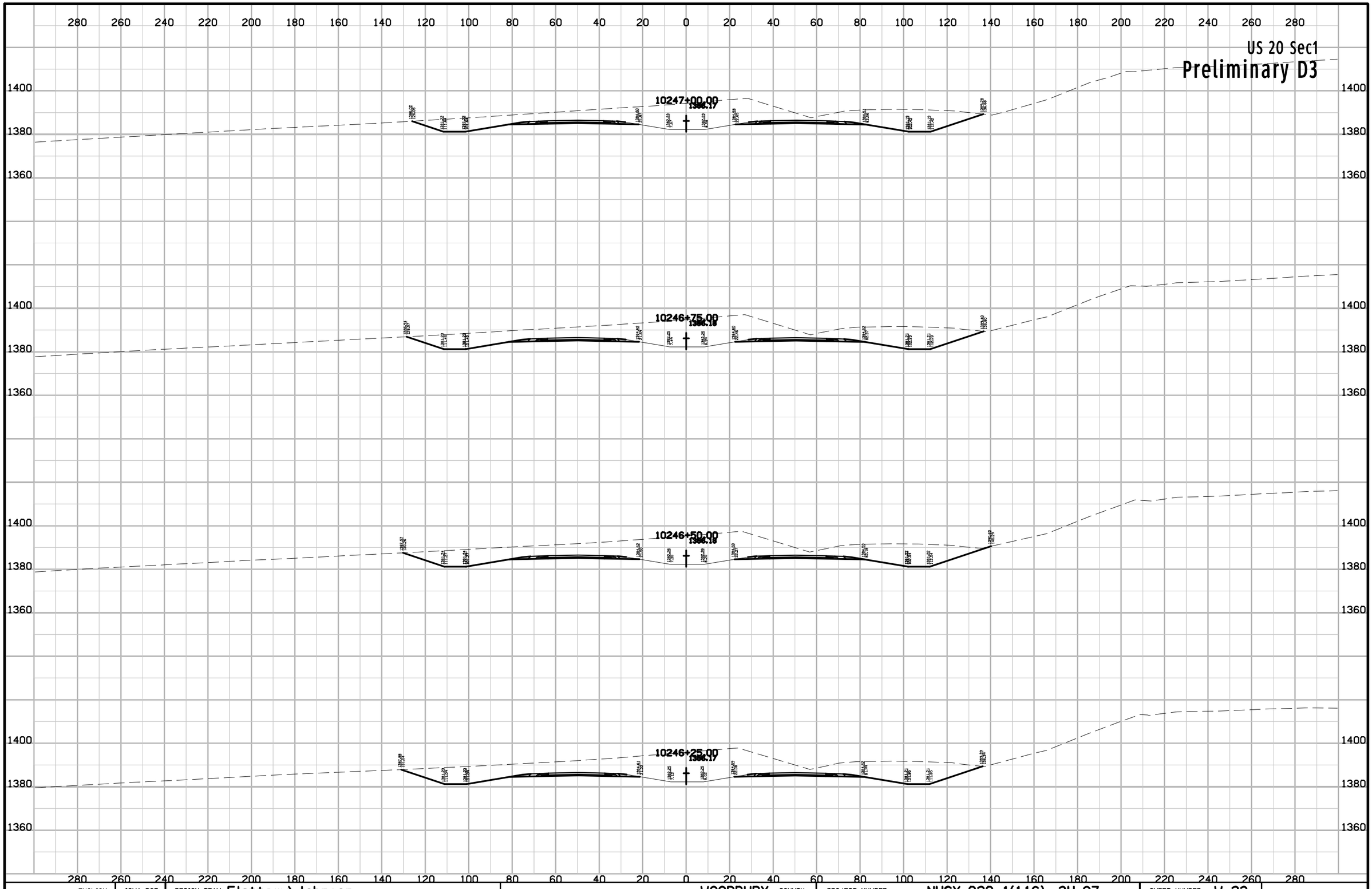


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.22

2:15:54 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

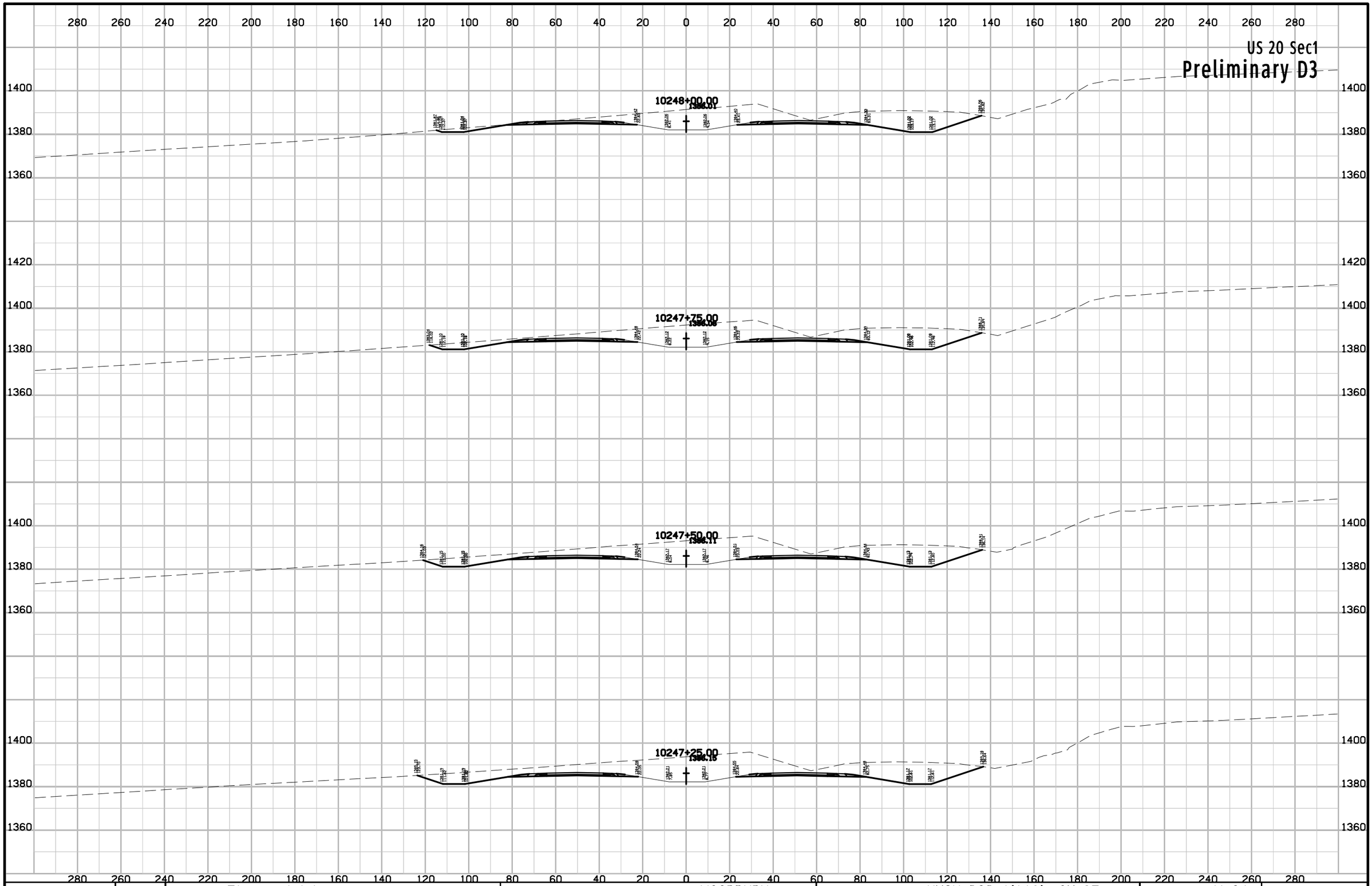


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.23

2:15:54 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

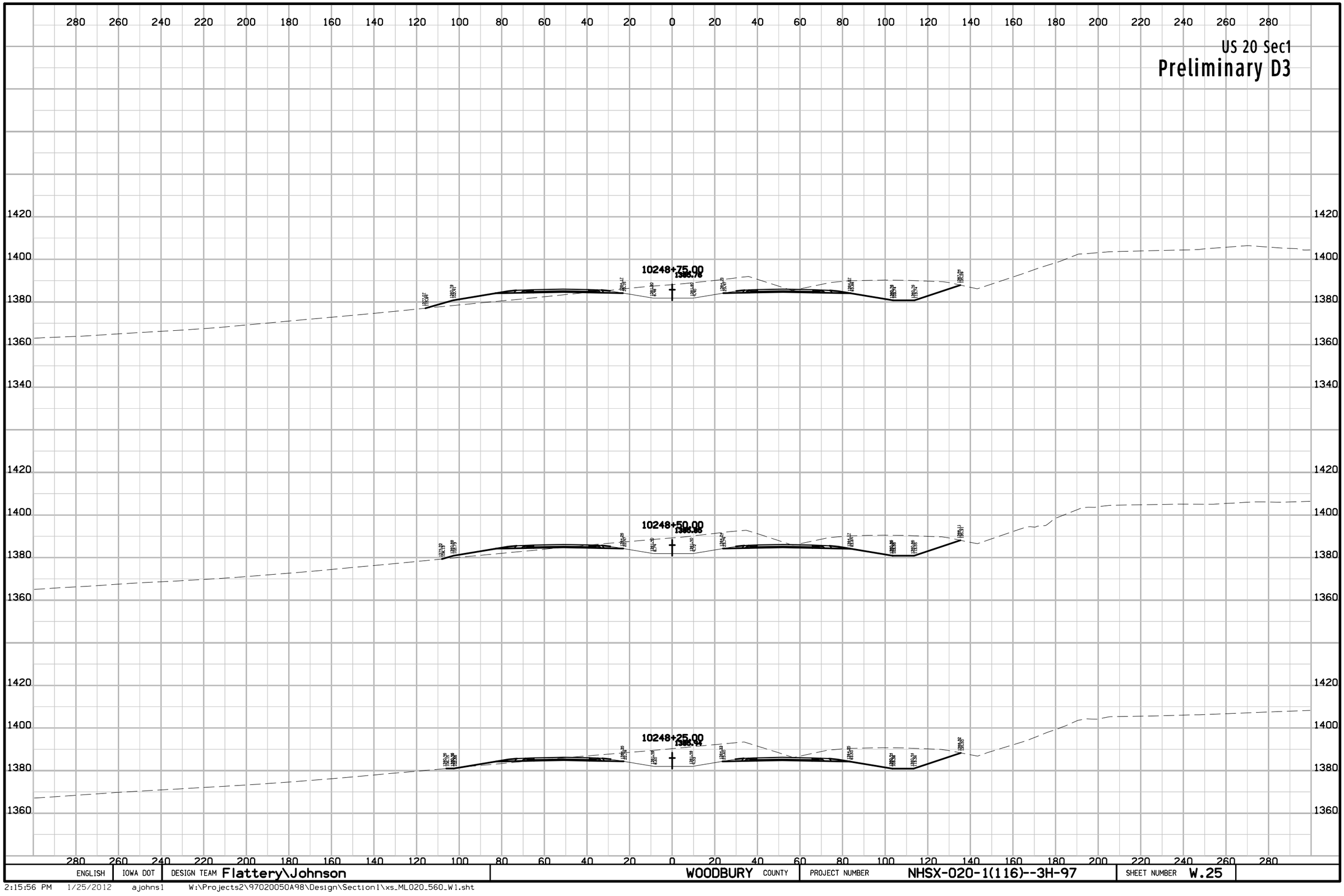


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.24

2:15:55 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3



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

2:15:56 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

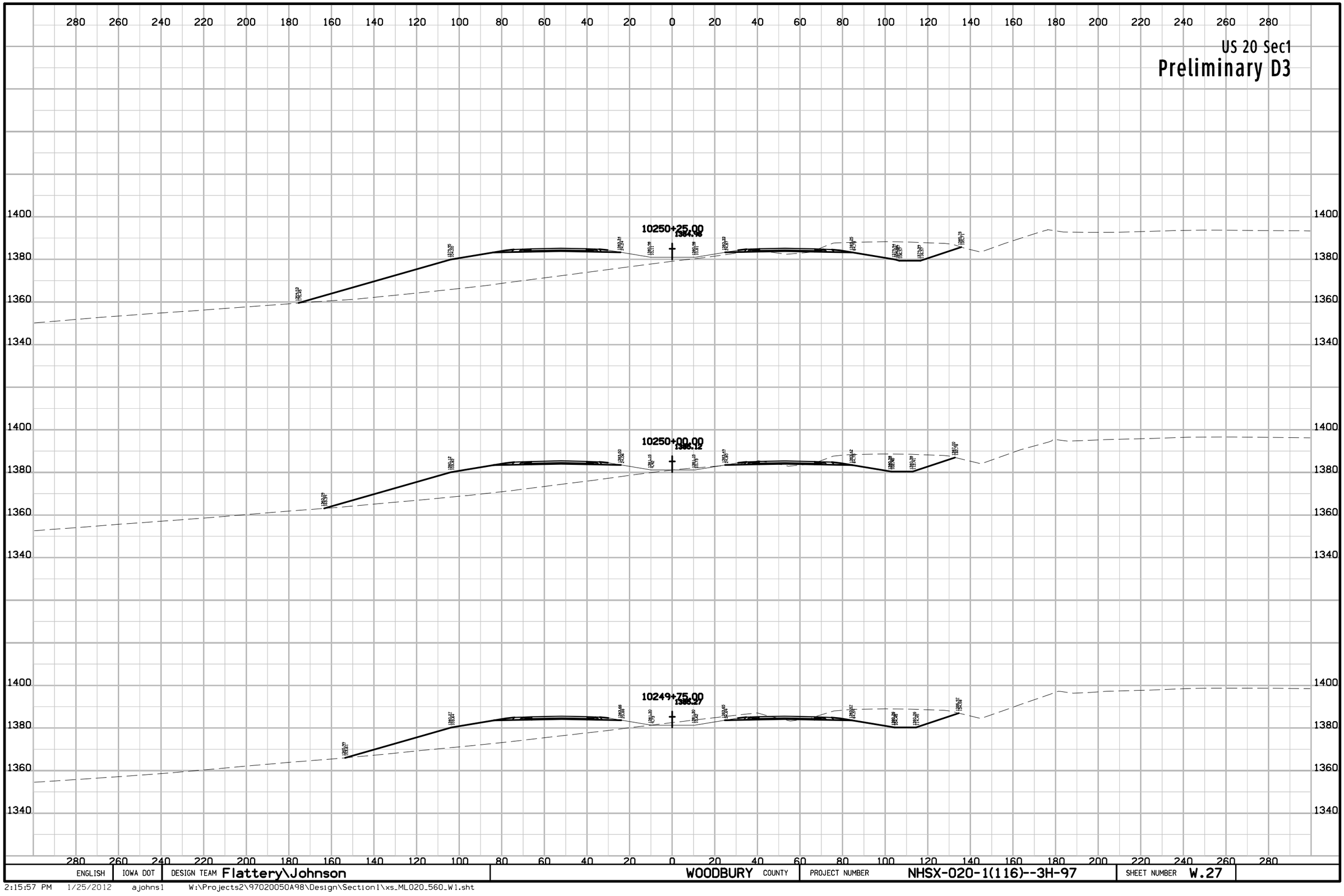
Preliminary D3

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

2:15:56 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

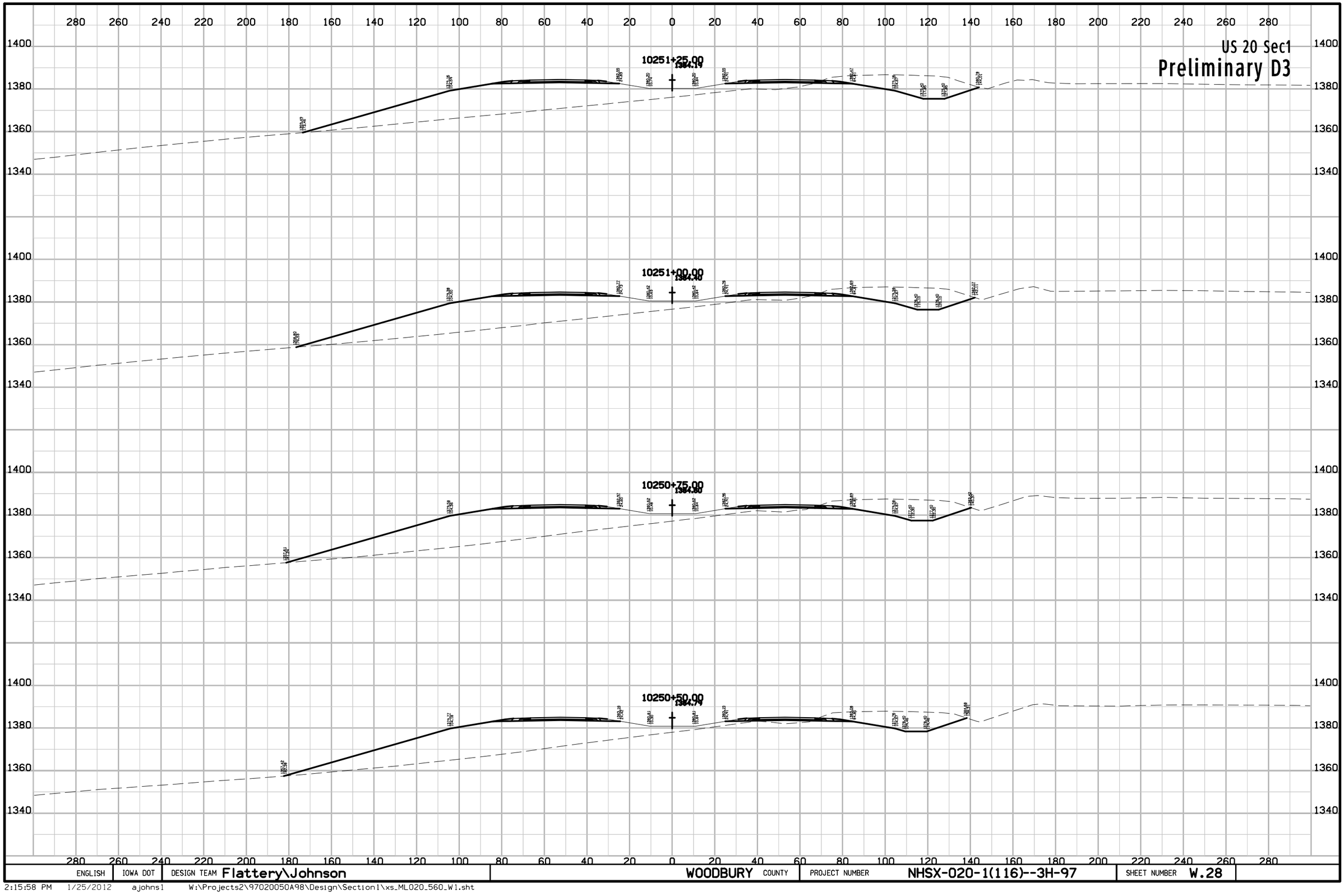


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER	W.27

2:15:57 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

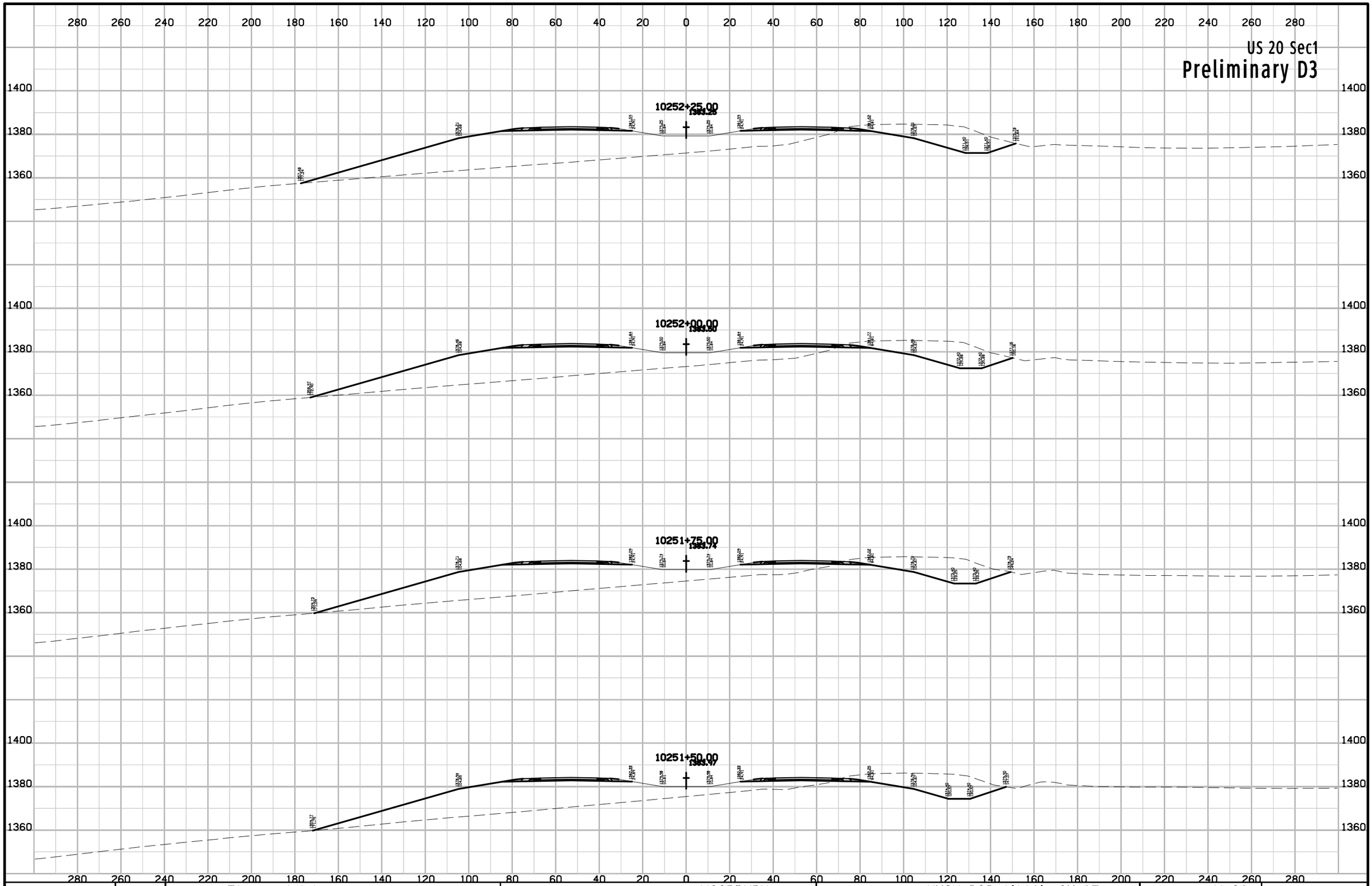


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.28

2:15:58 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

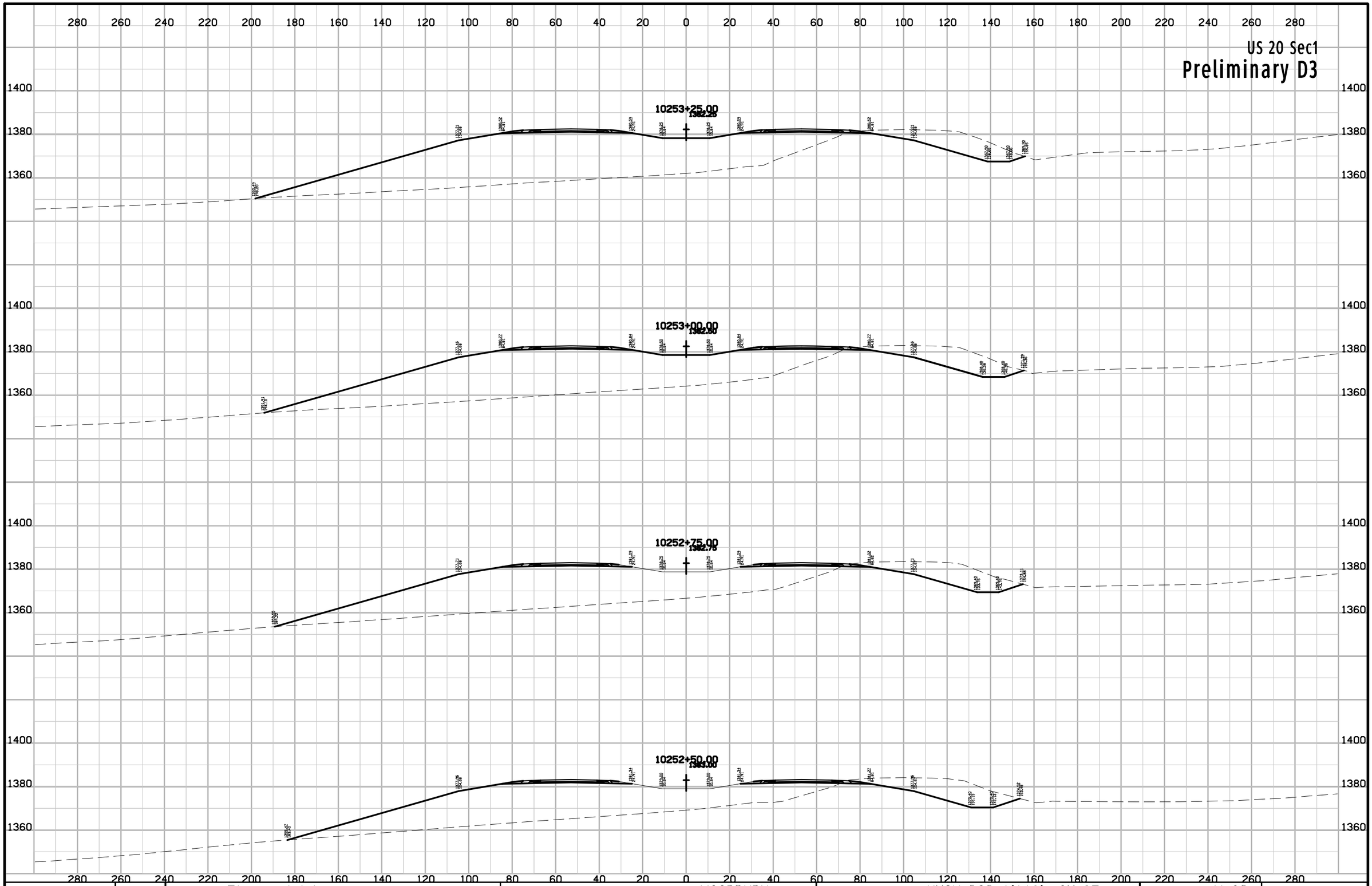


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.29

2:15:59 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

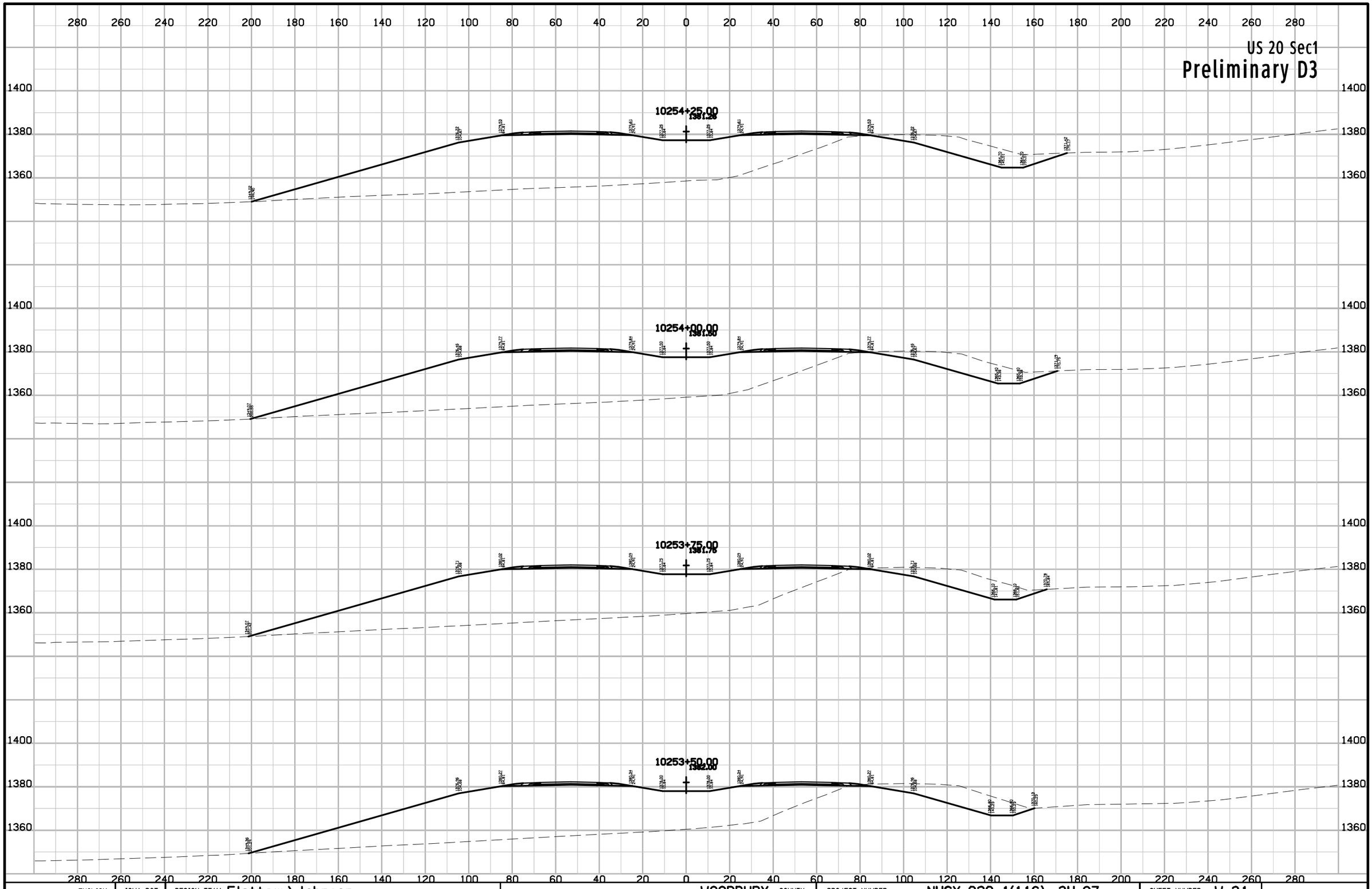


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.30

2:15:59 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

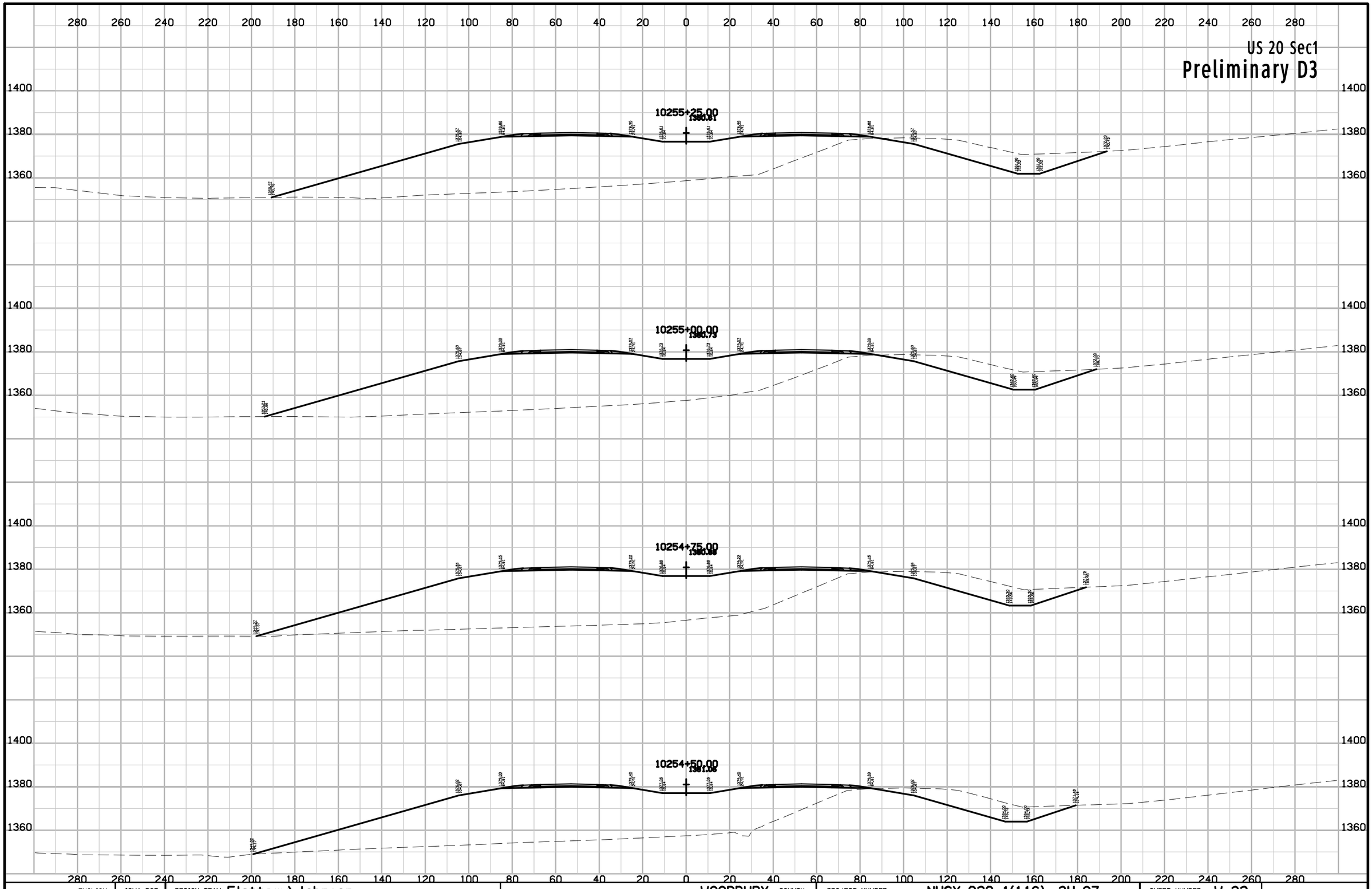


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.31

2:16:00 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

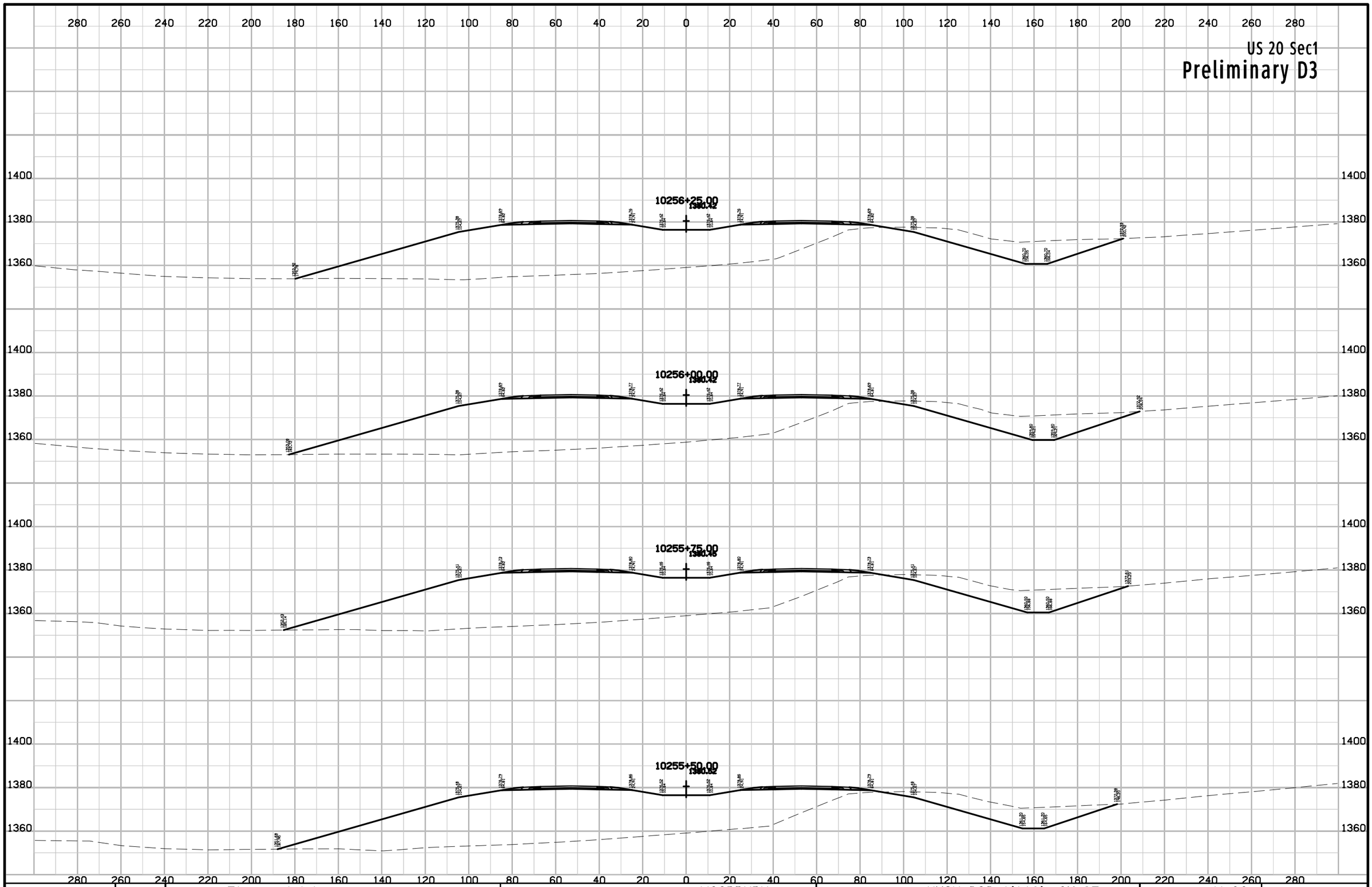


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.32

2:16:01 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

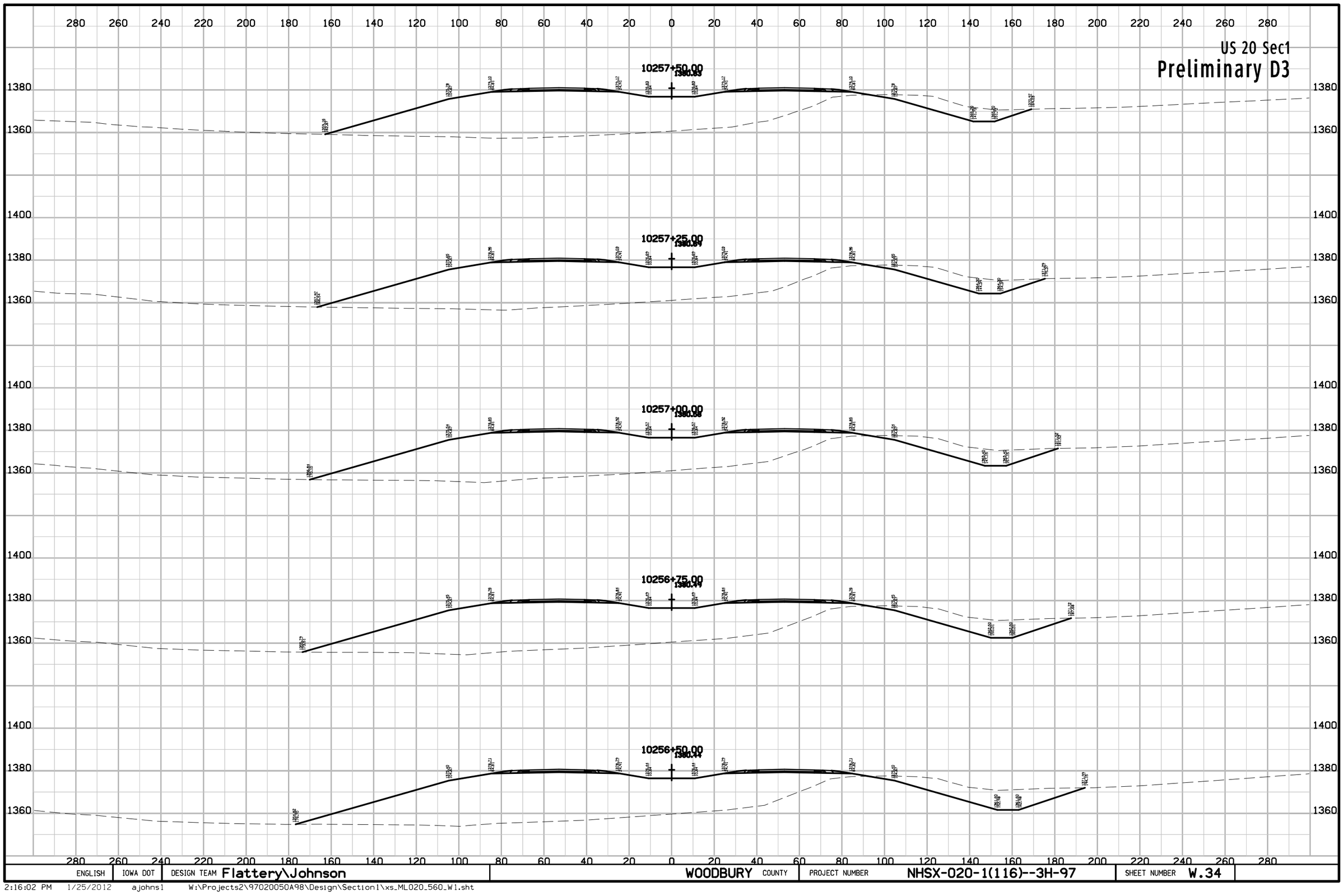


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.33

2:16:01 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

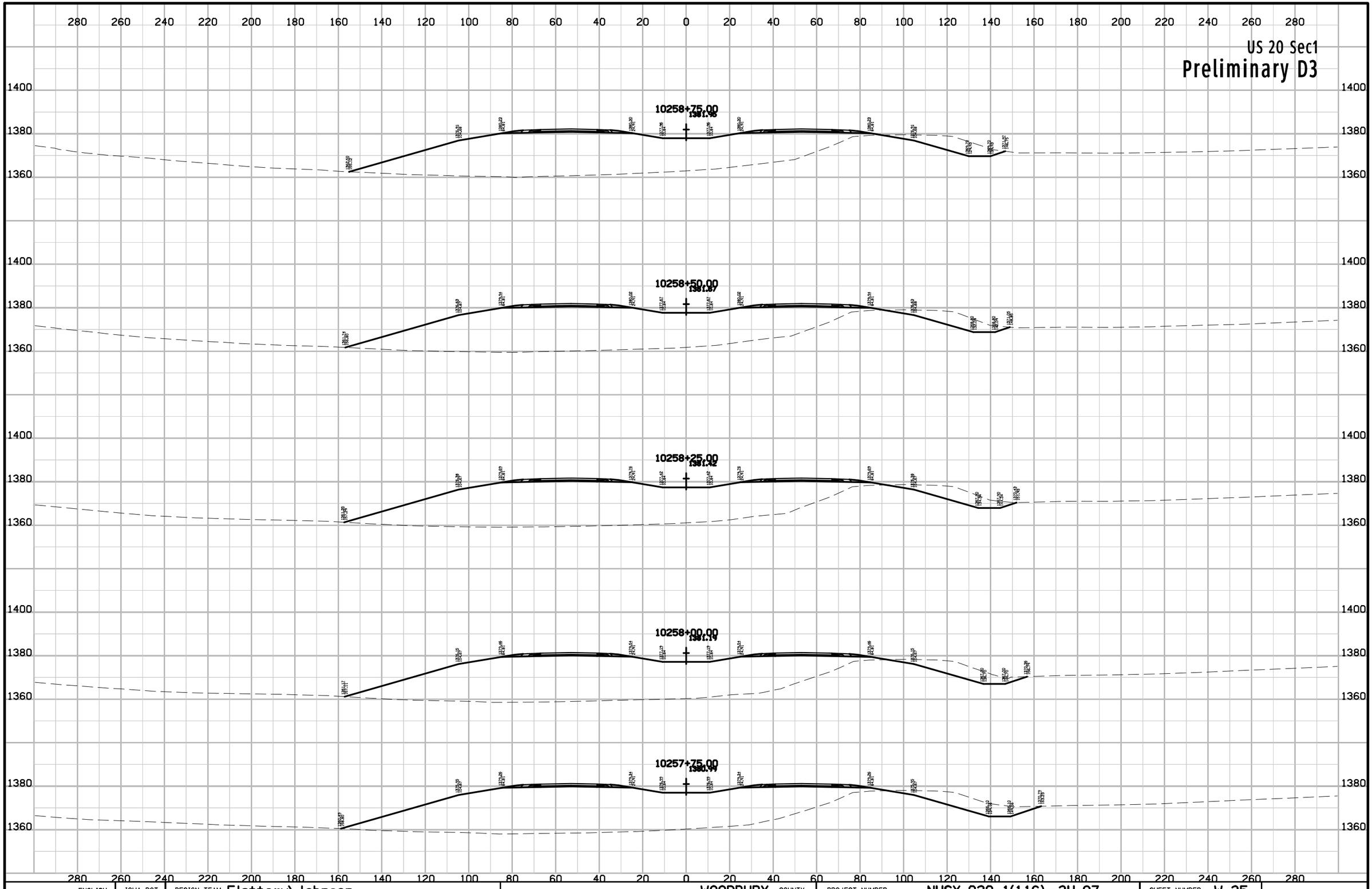


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.34

2:16:02 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

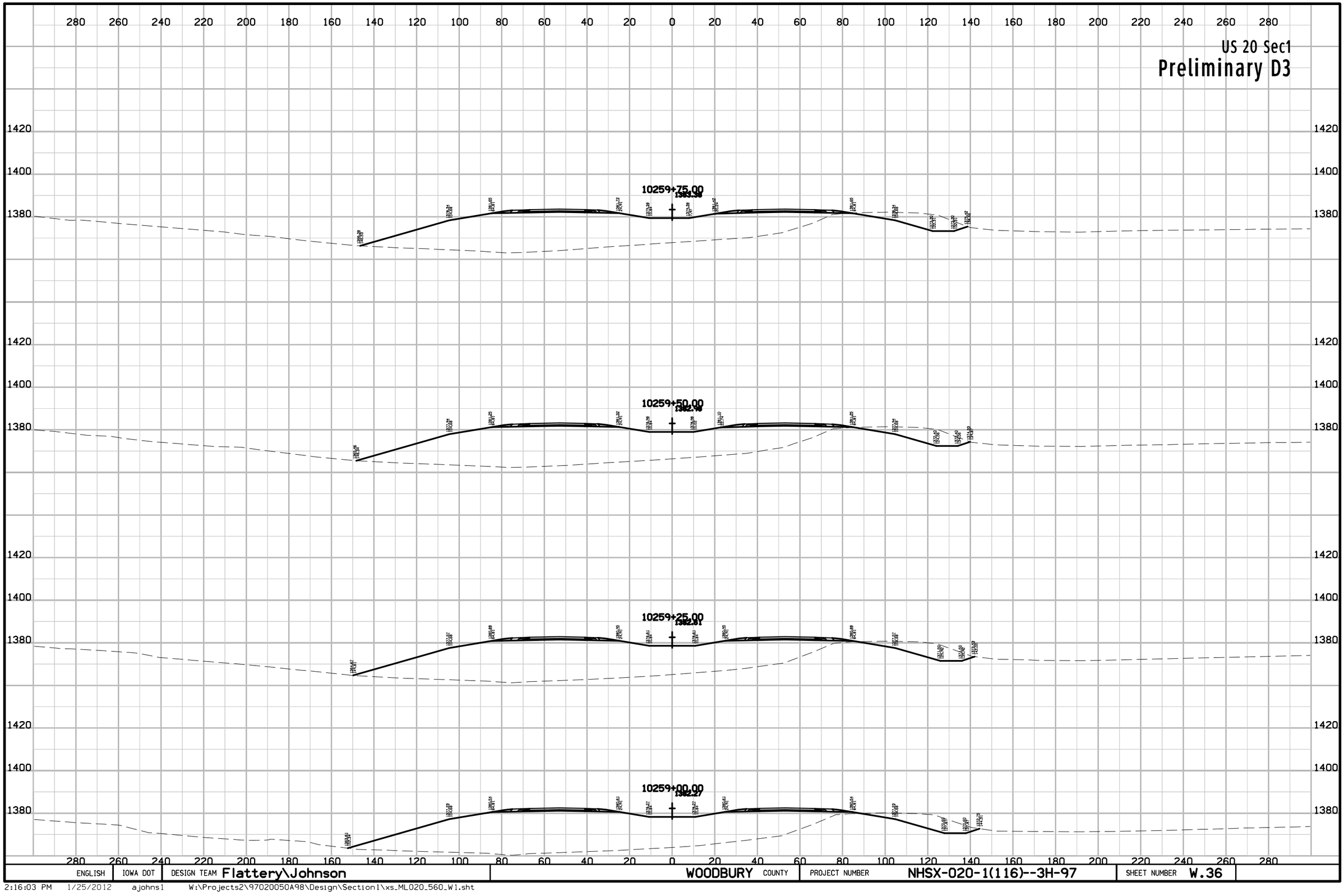


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.35

2:16:03 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

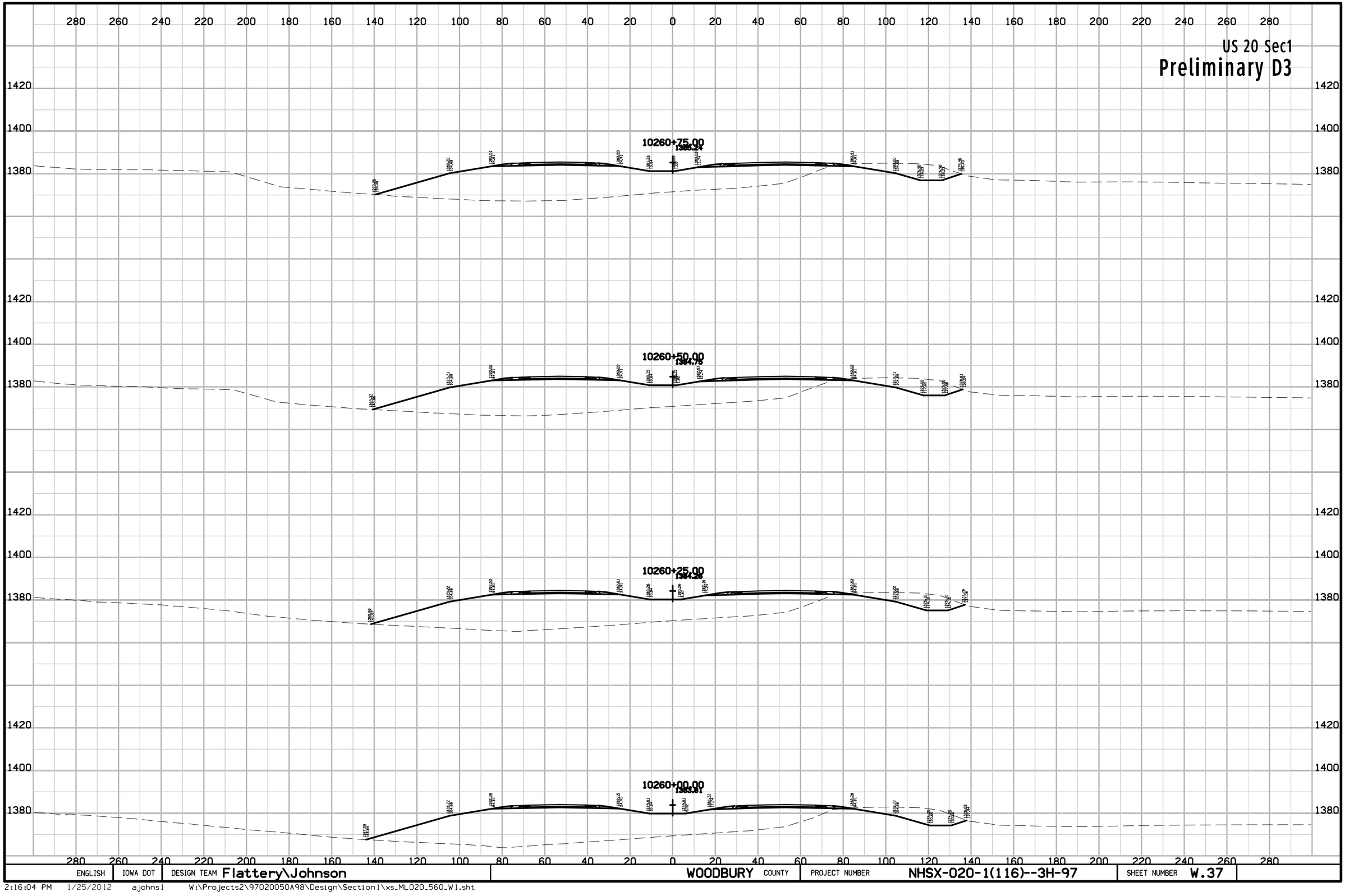


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.36

2:16:03 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

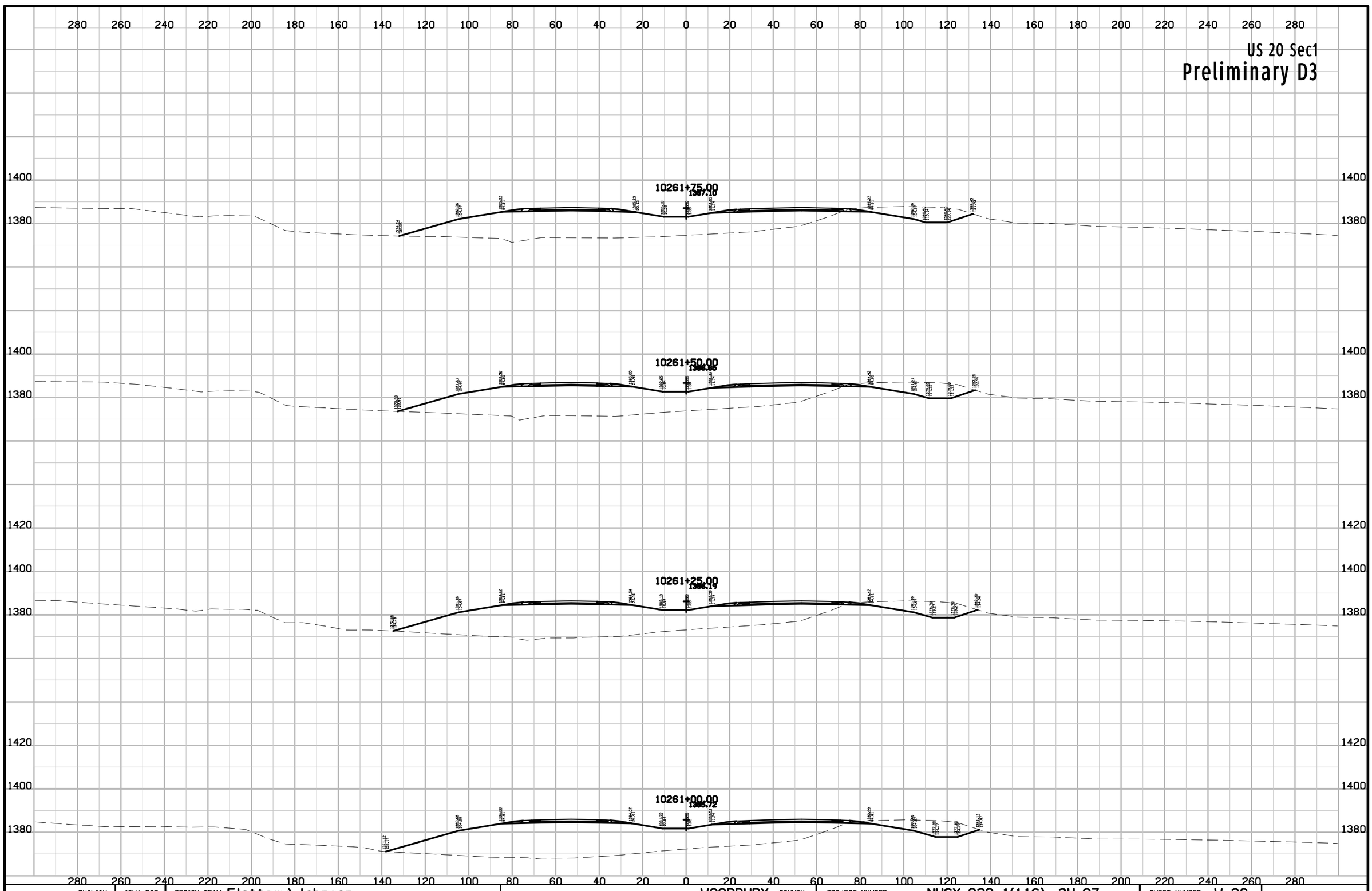


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.37

2:16:04 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

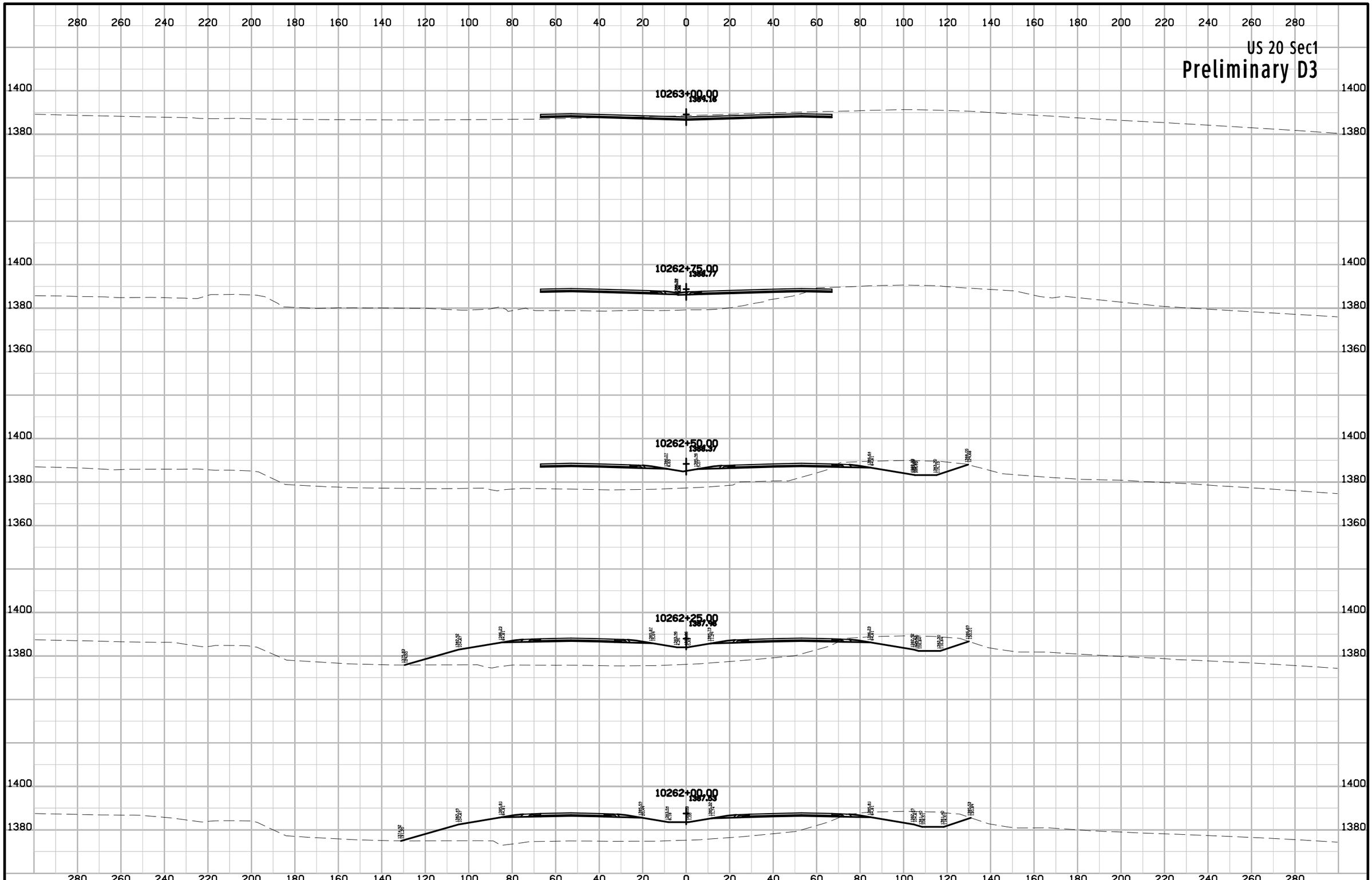


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.38

2:16:05 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3



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

2:16:06 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

10264+25.00

10264+00.00

10263+75.00

10263+50.00

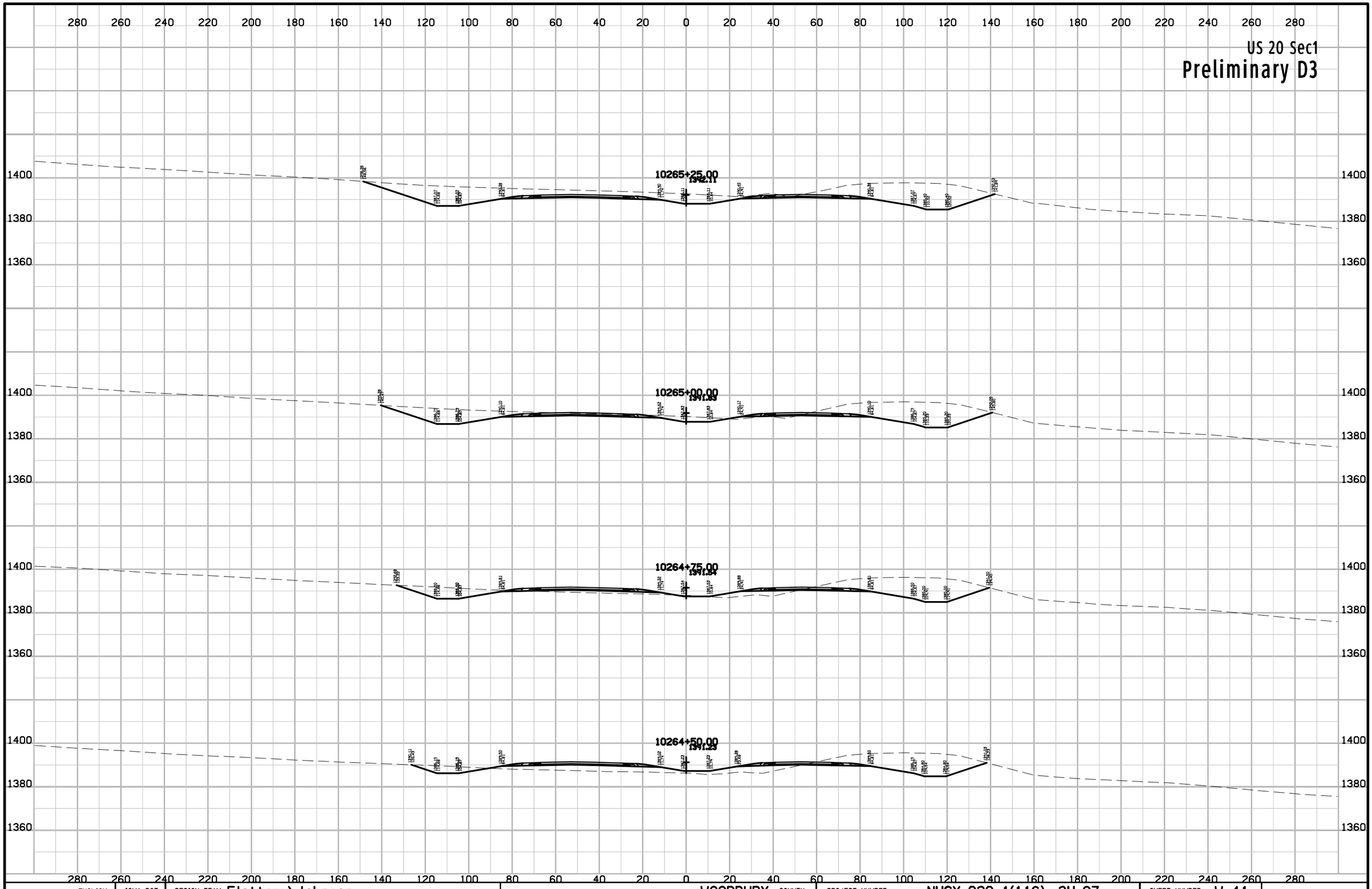
10263+25.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.40

2:16:06 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

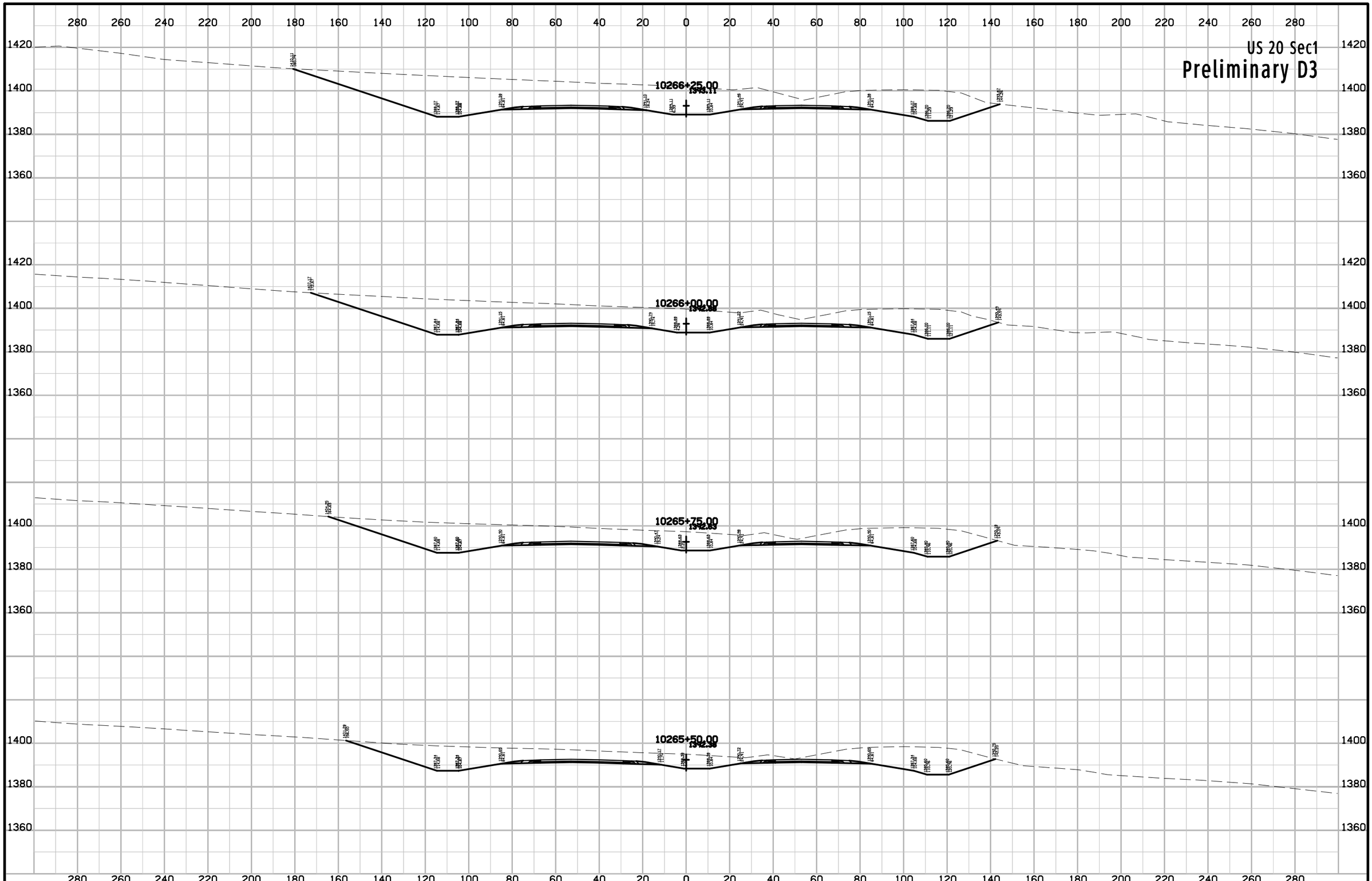


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.41

2:16:07 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

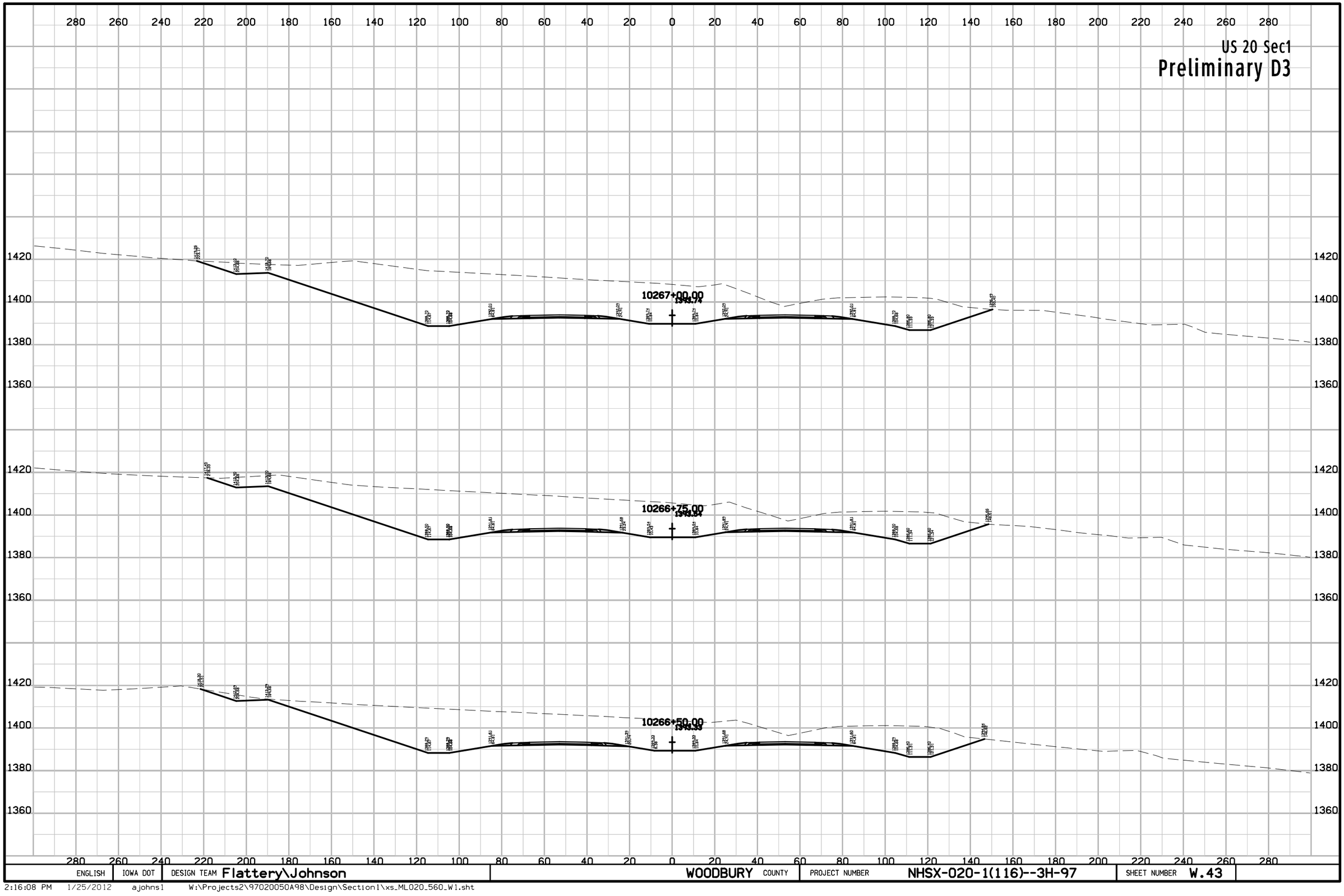


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.42

2:16:08 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.43

2:16:08 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

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
1380
1360

10267+75.00
1394.28

10267+50.00
1394.10

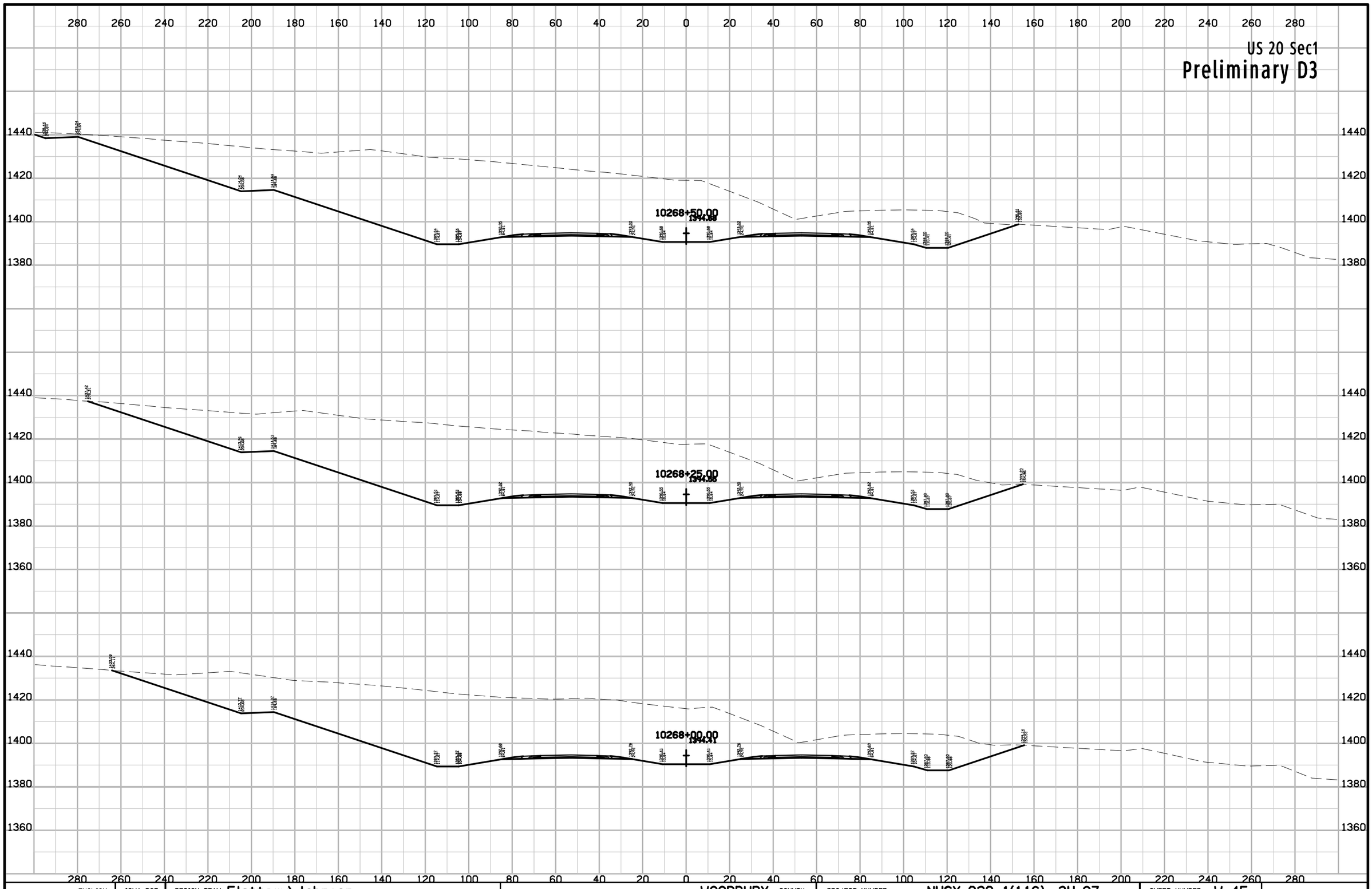
10267+25.00
1393.93

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

2:16:09 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

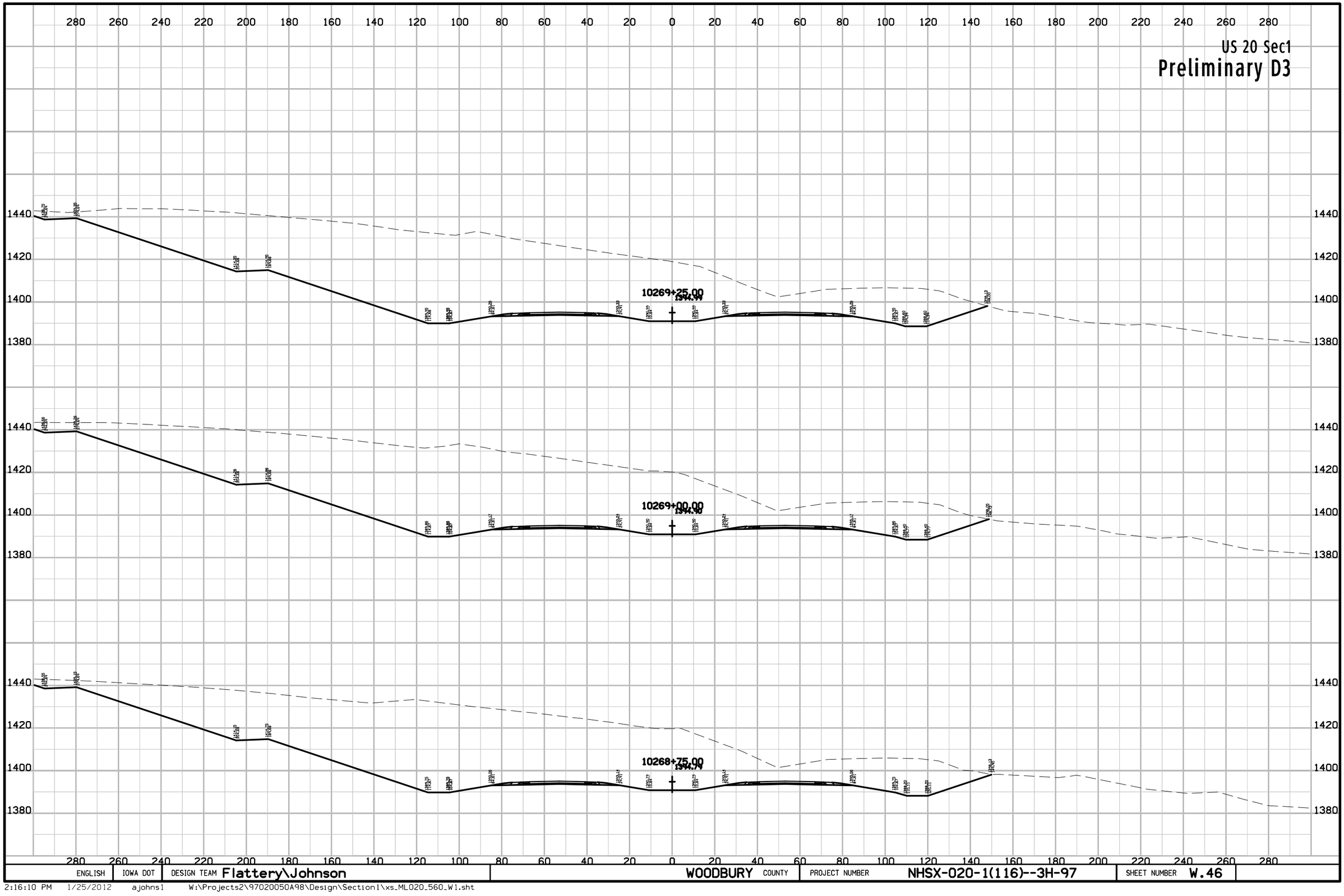


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.45

2:16:10 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

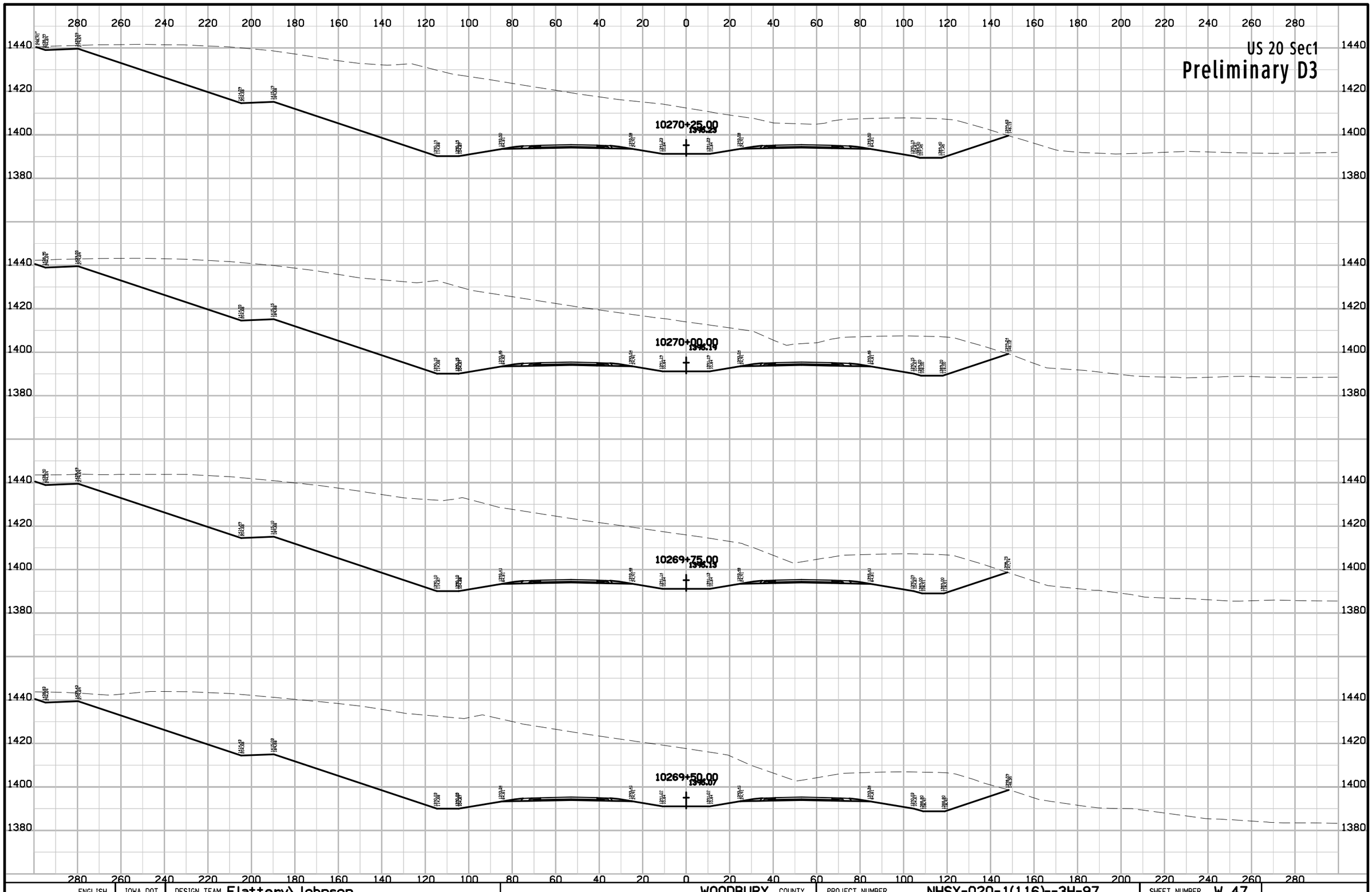


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.46

2:16:10 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3



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

2:16:11 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

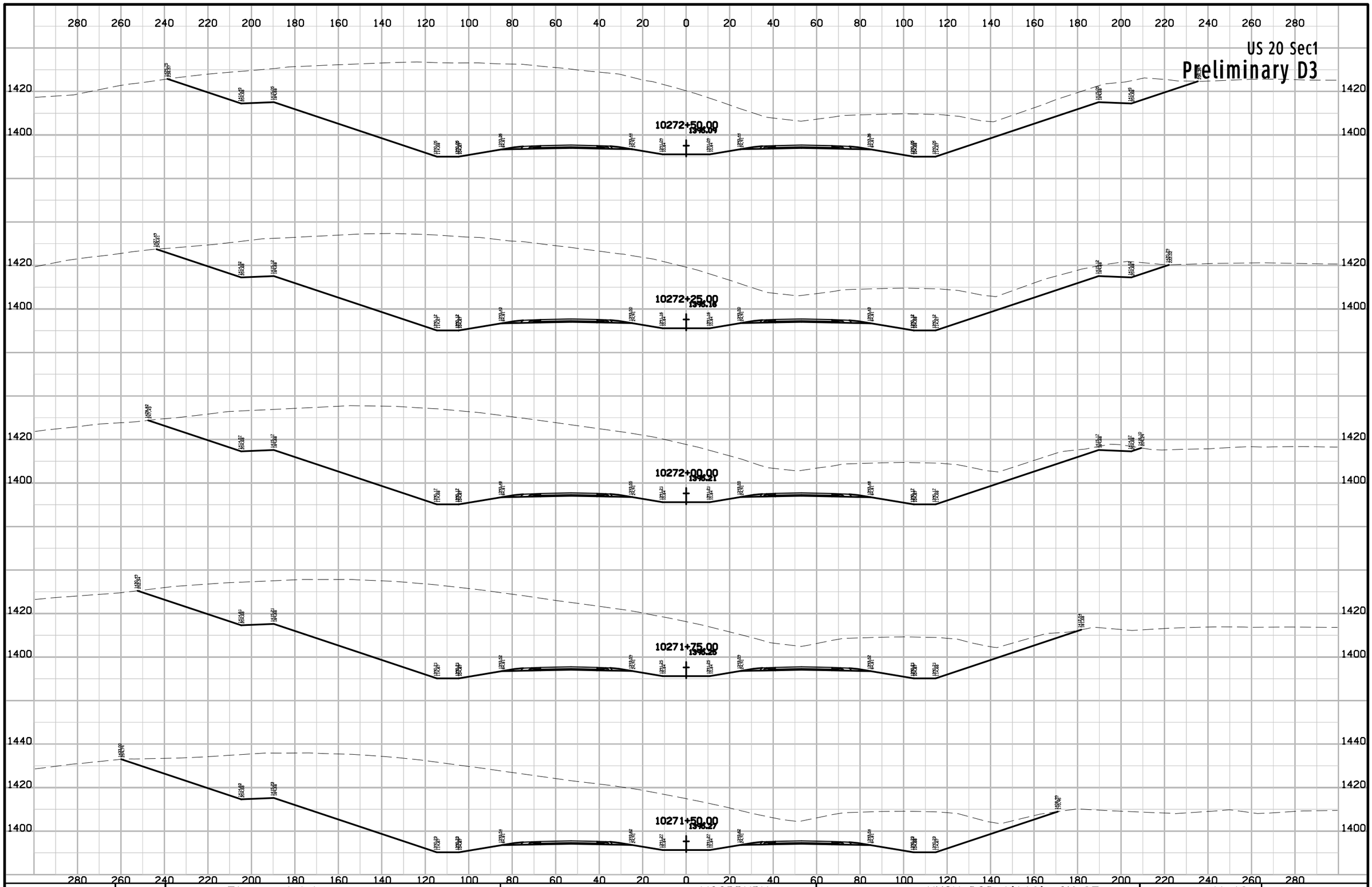
Preliminary D3

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

2:16:12 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

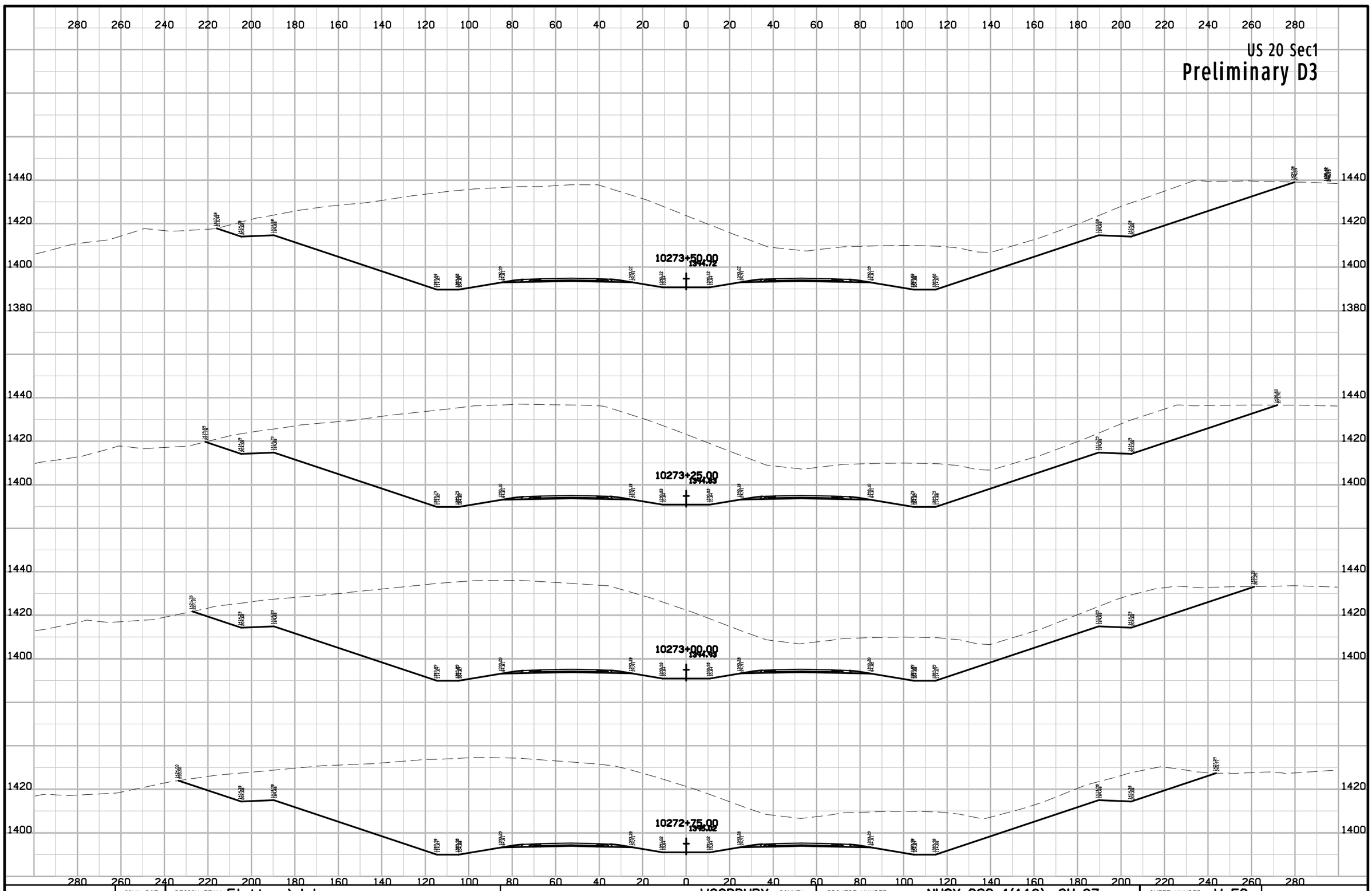


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.49

2:16:13 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

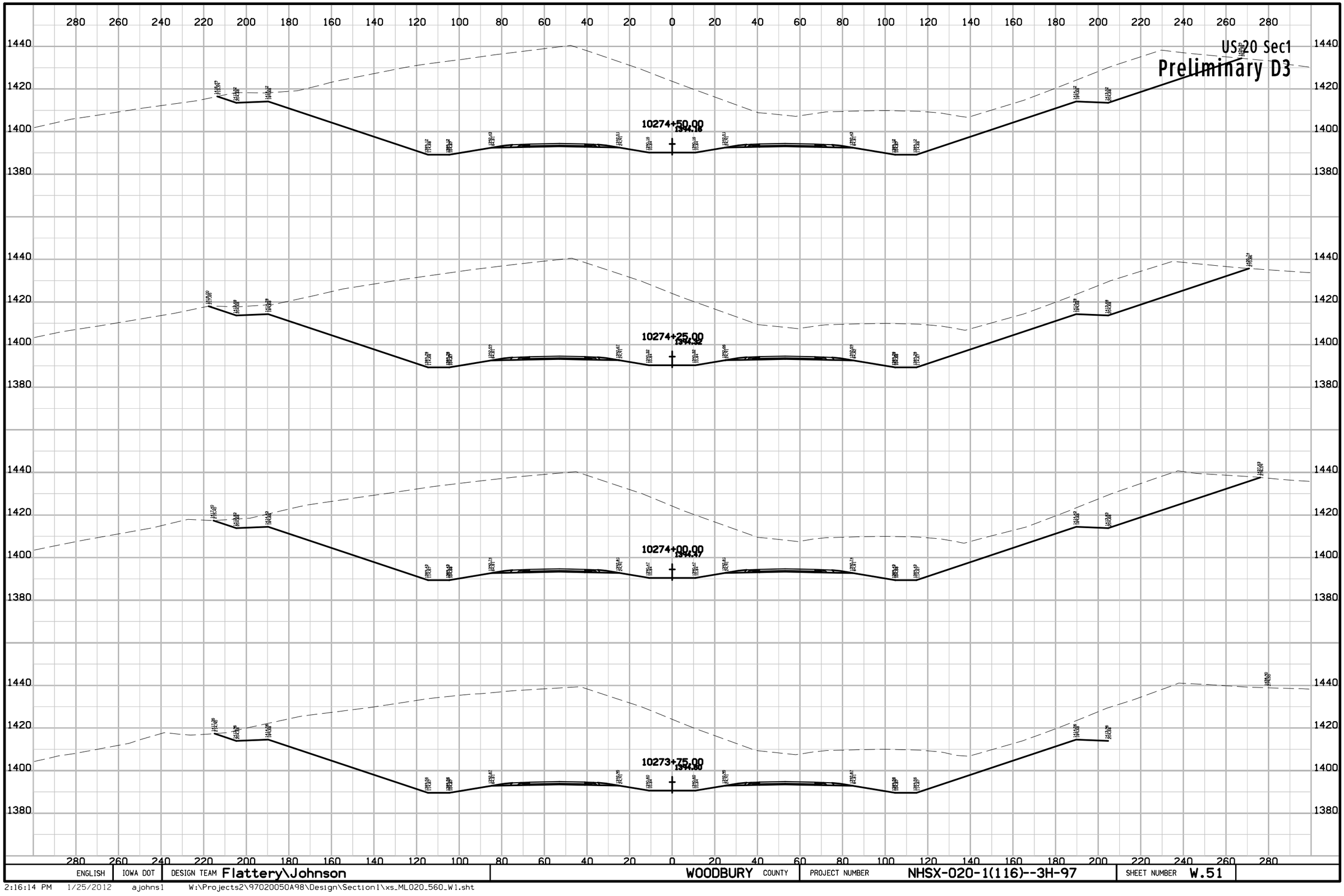


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.50

2:16:13 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US-20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.51

2:16:14 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

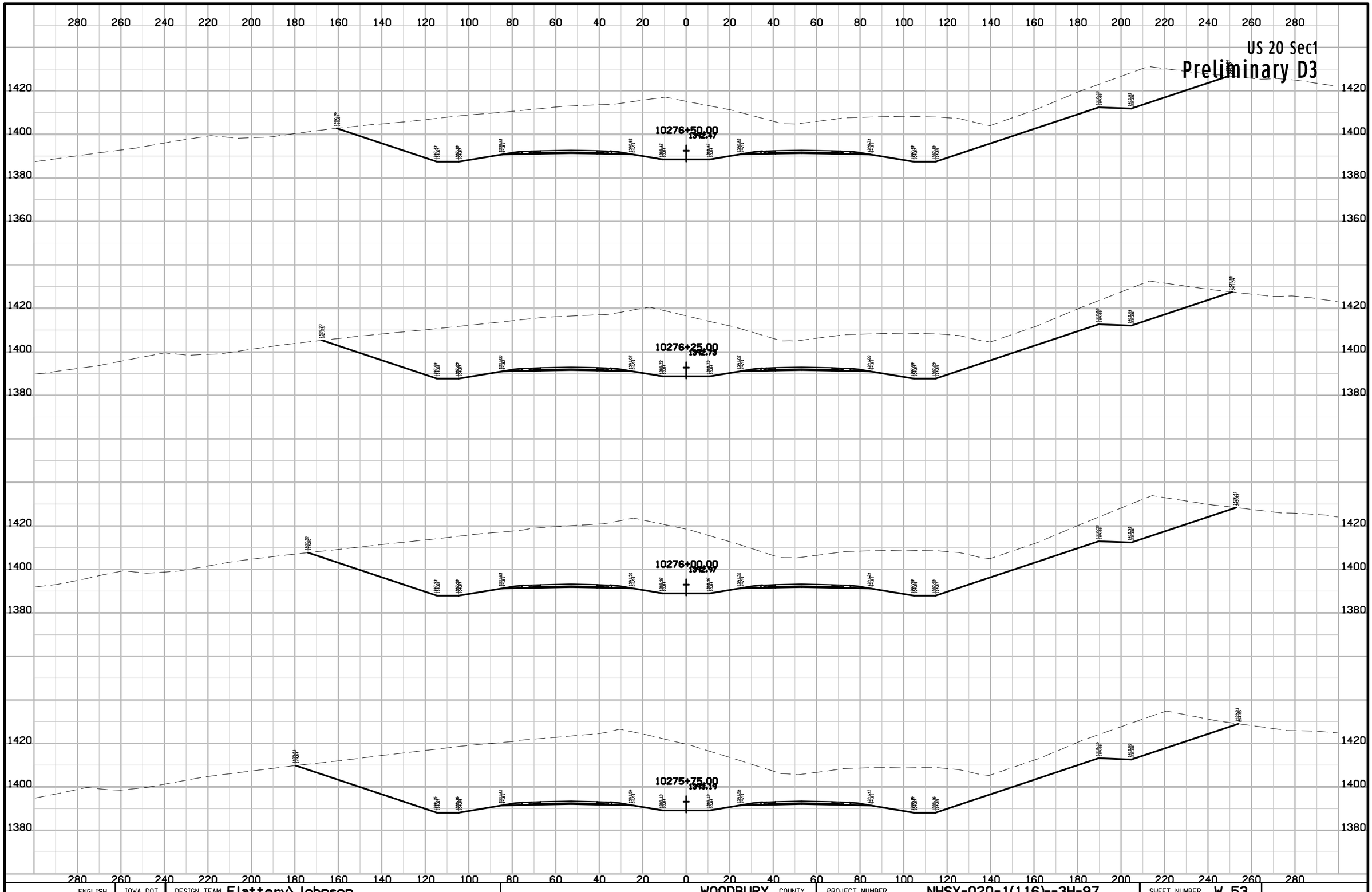
Preliminary D3

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER	W.52

2:16:15 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

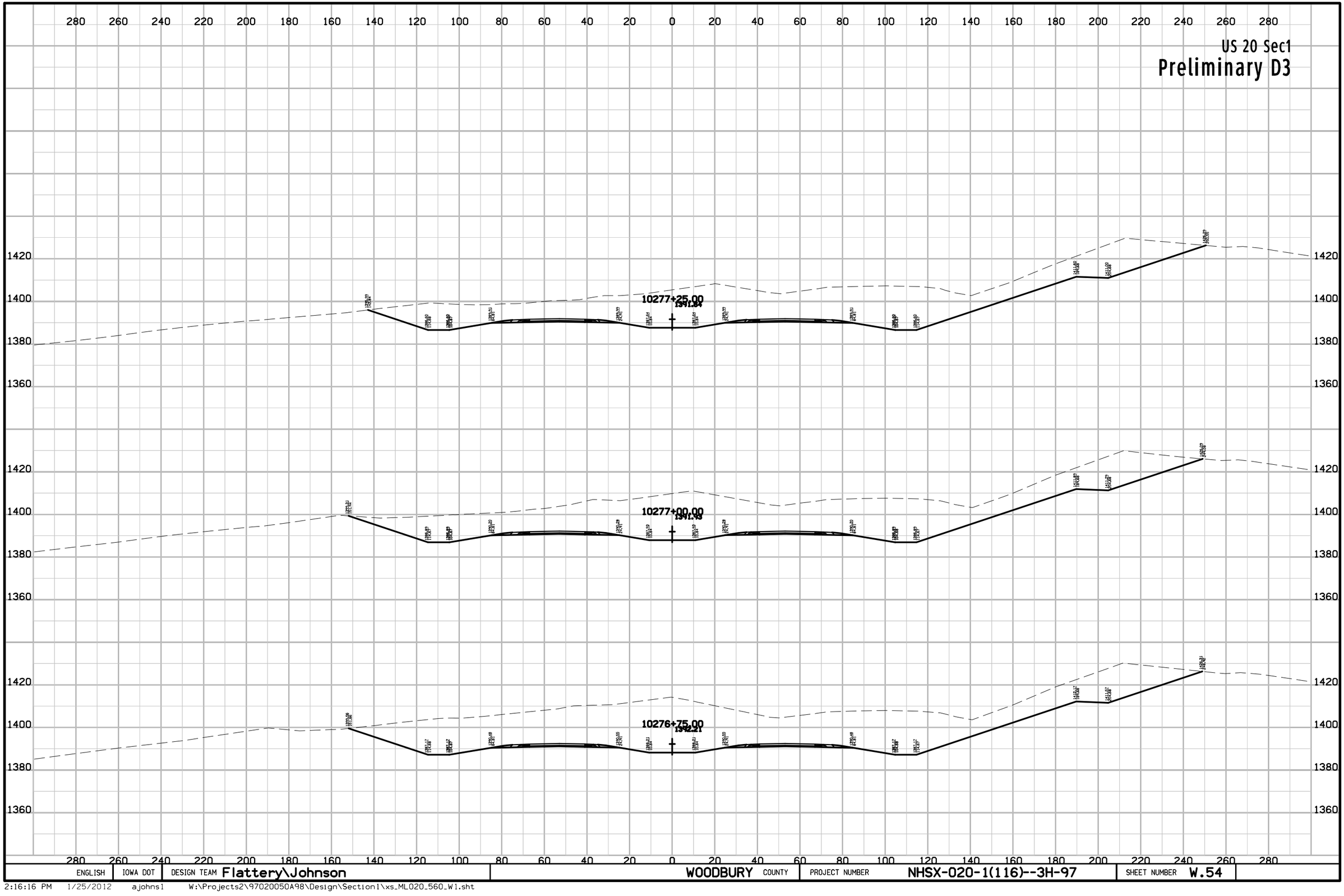


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.53

2:16:15 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

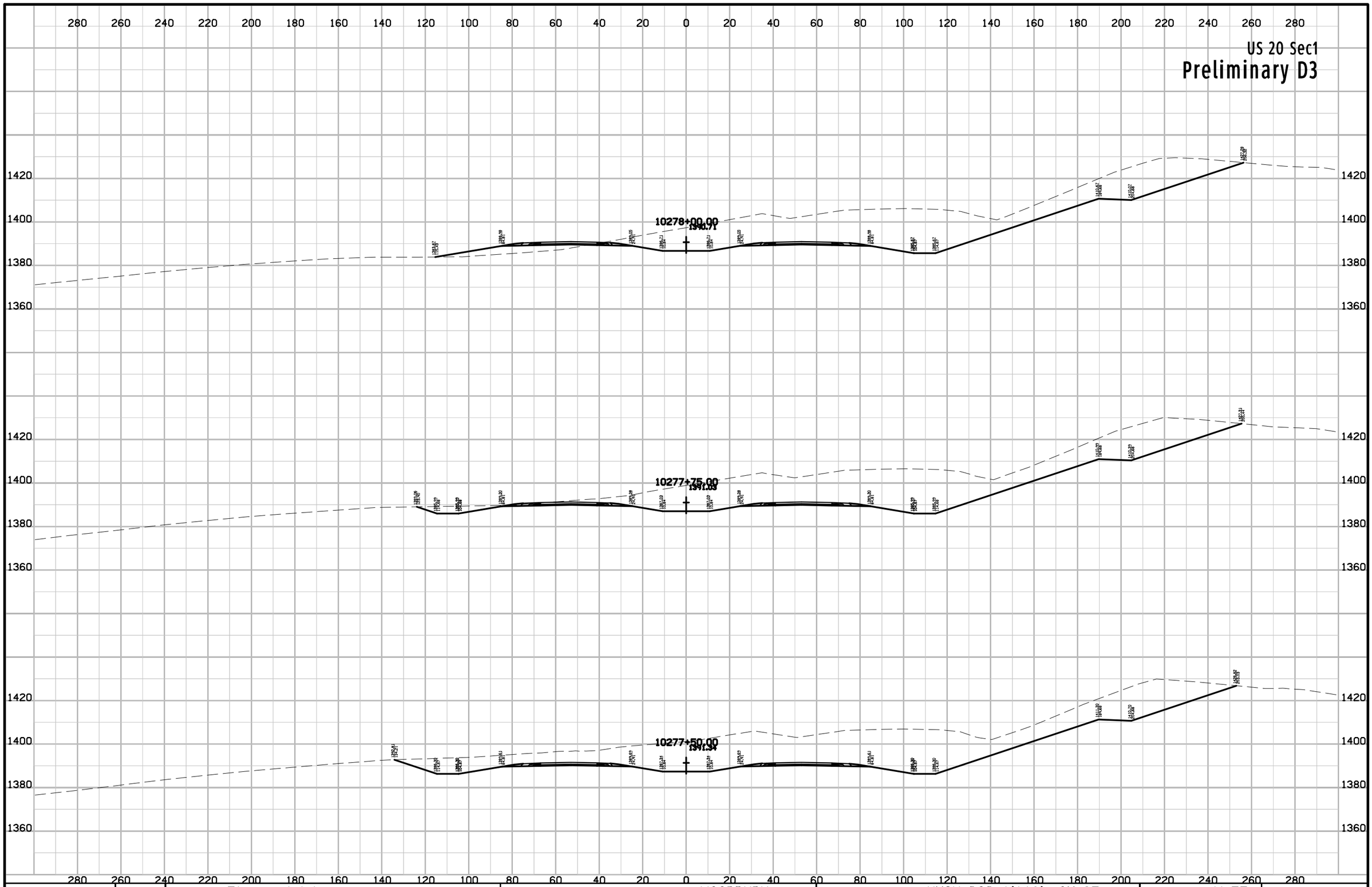


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.54

2:16:16 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

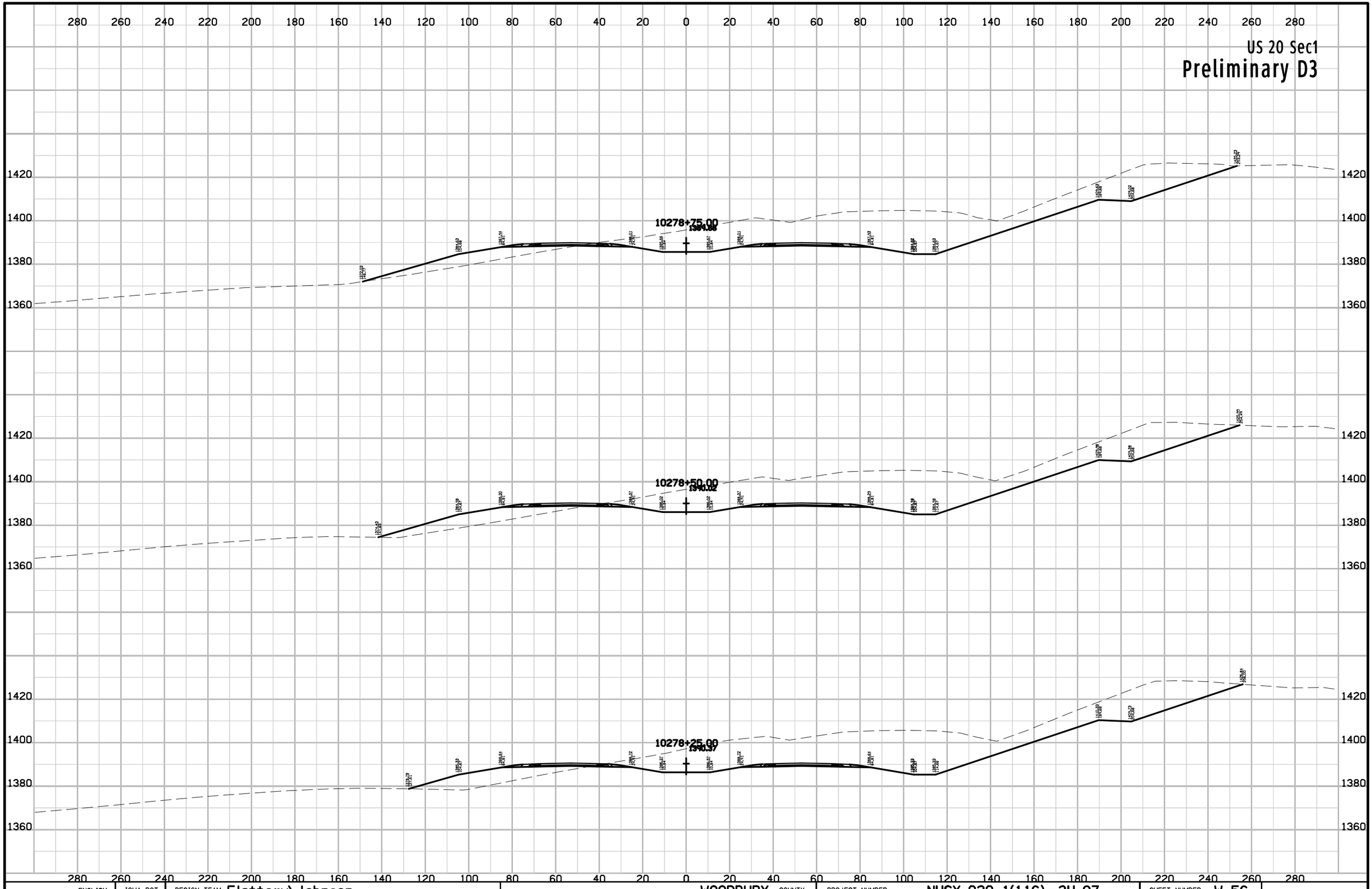


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.55

2:16:17 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

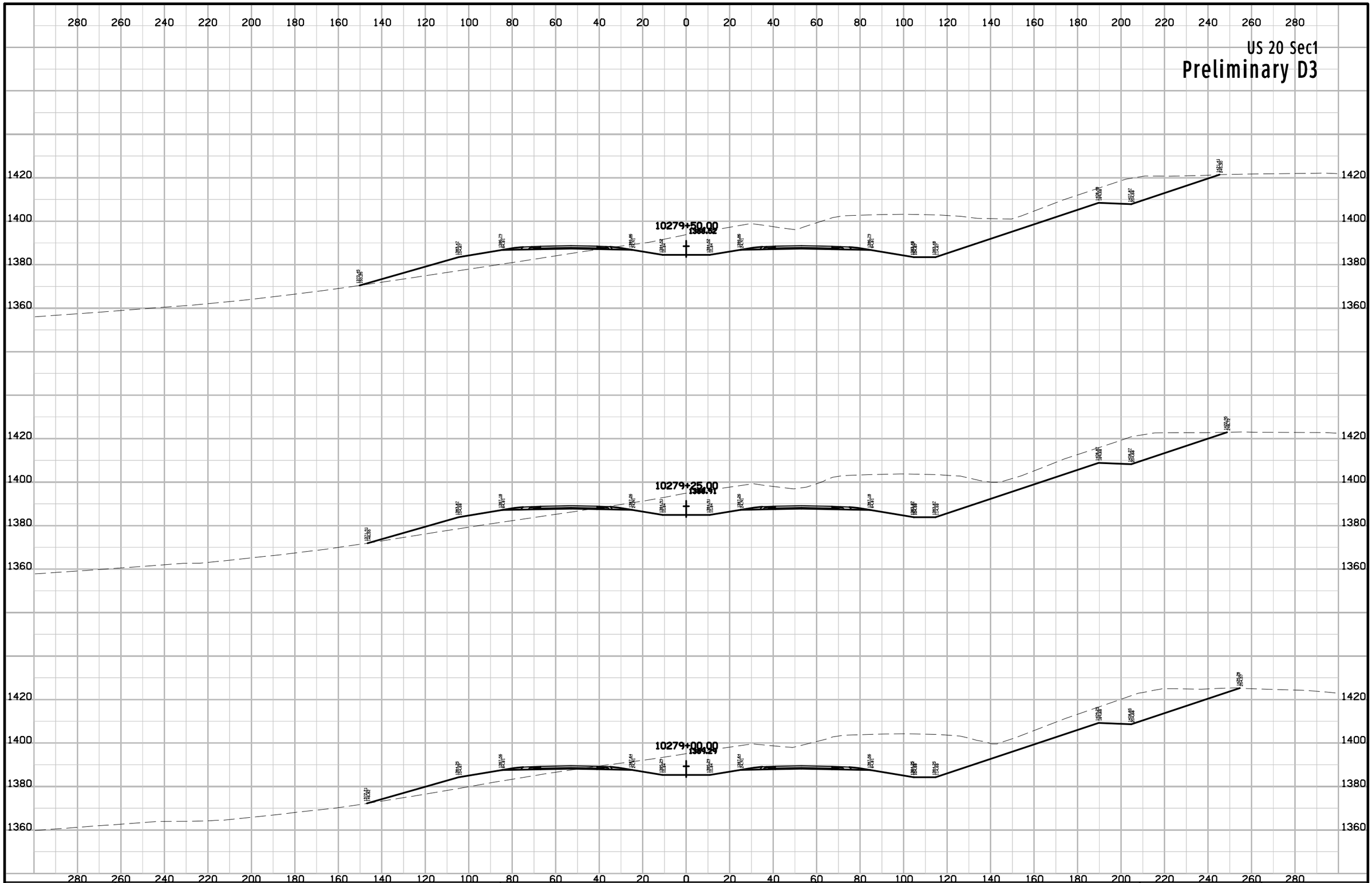


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.56

2:16:18 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

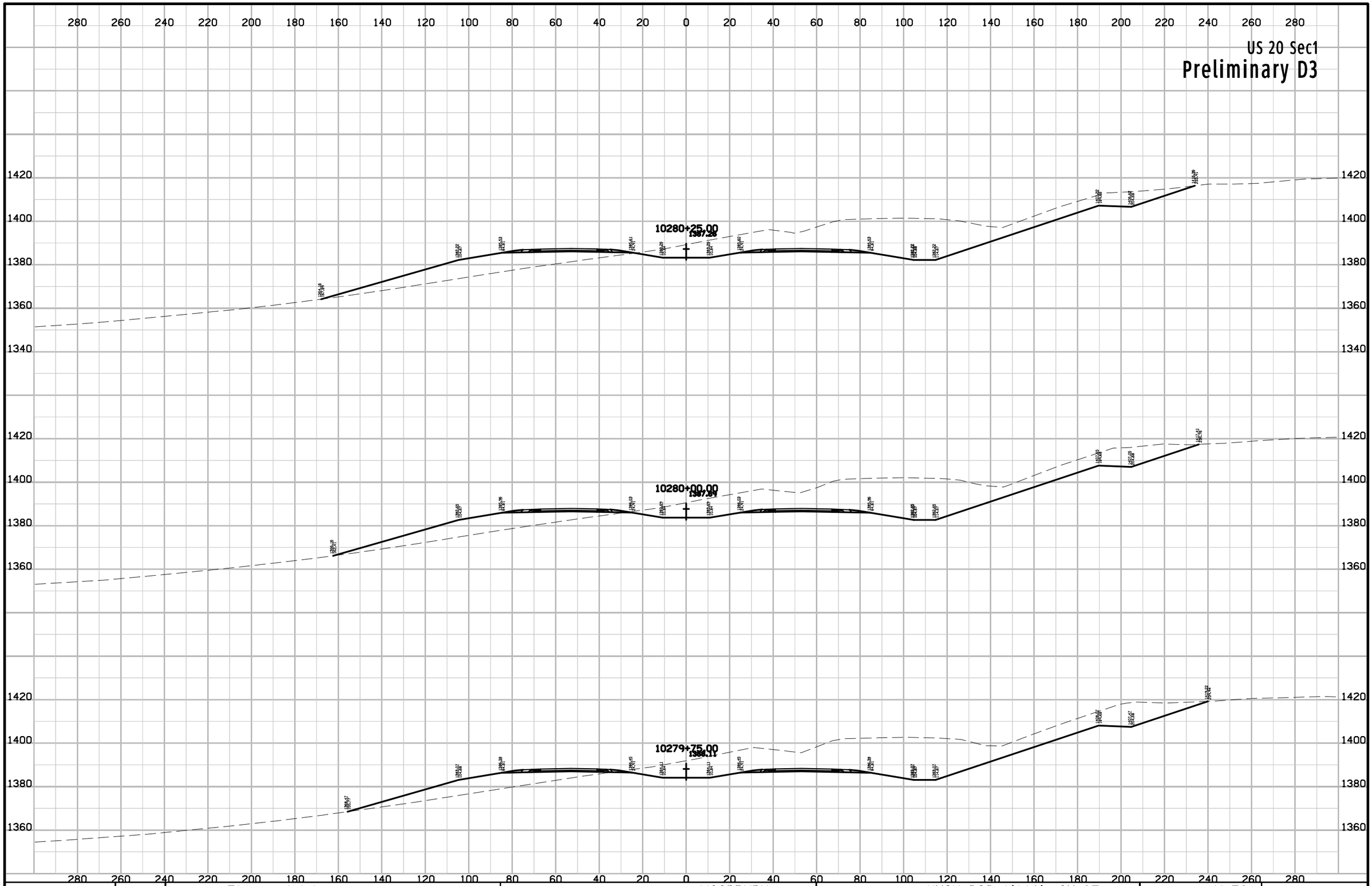


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.57

2:16:18 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

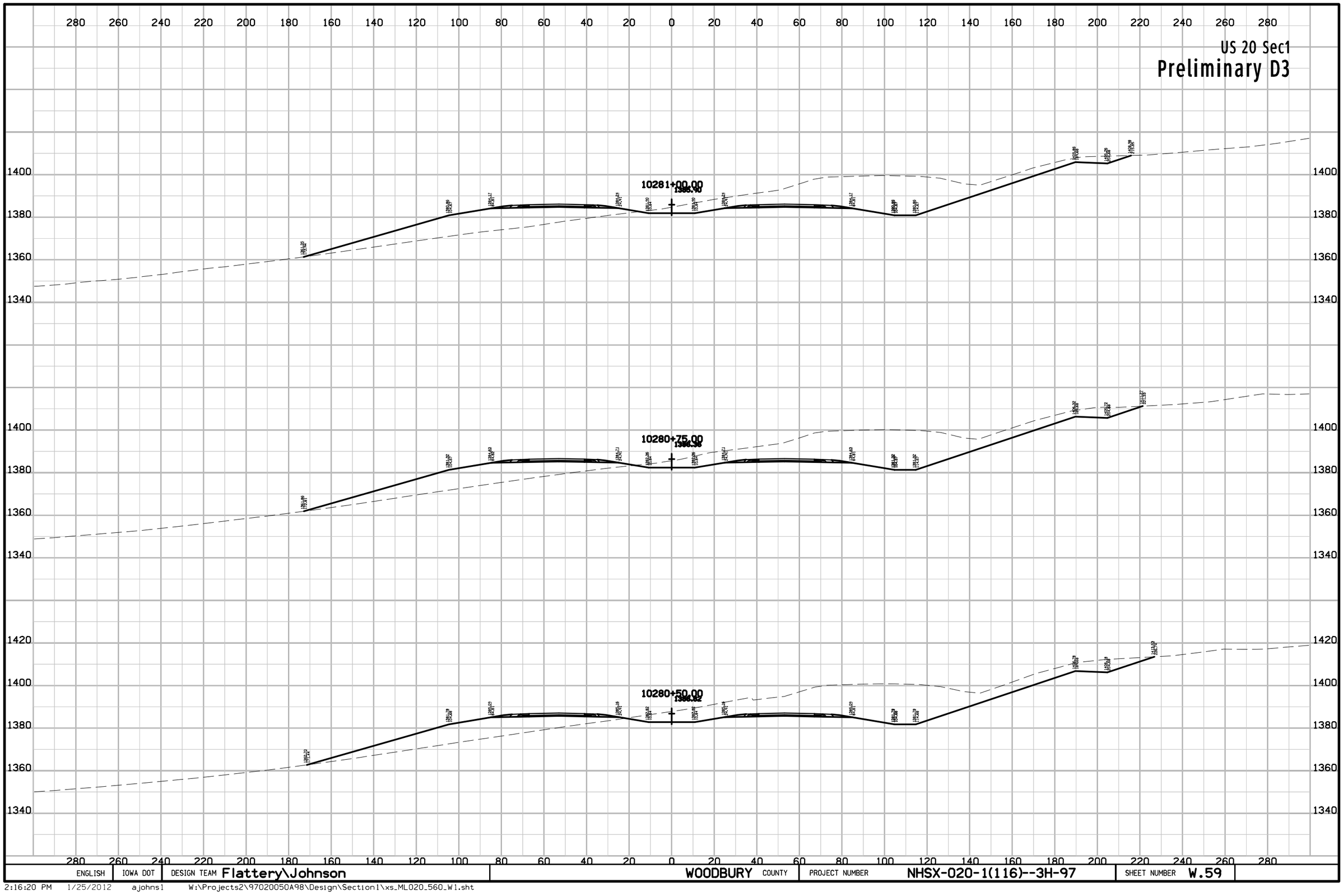


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.58

2:16:19 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

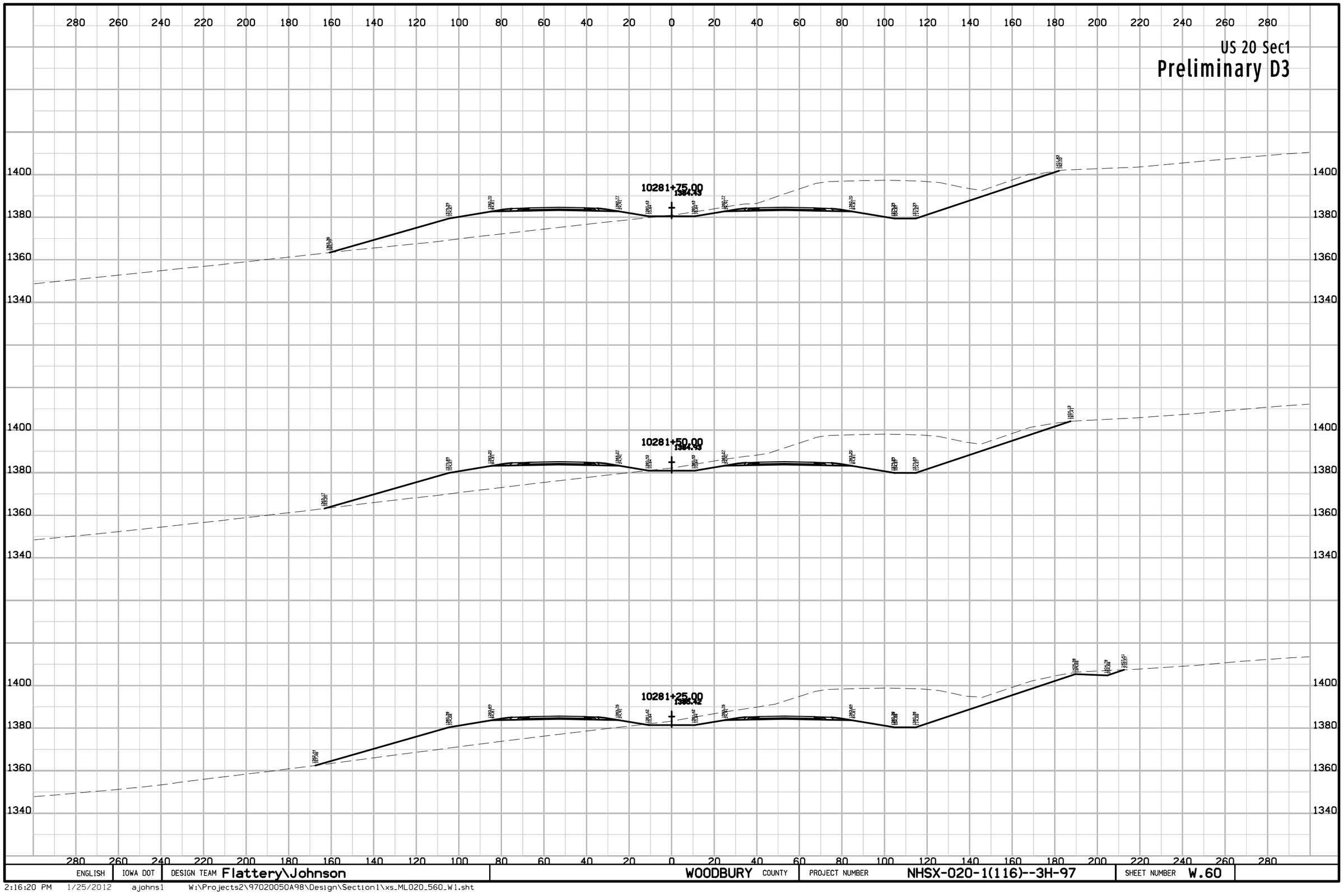


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.59

2:16:20 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

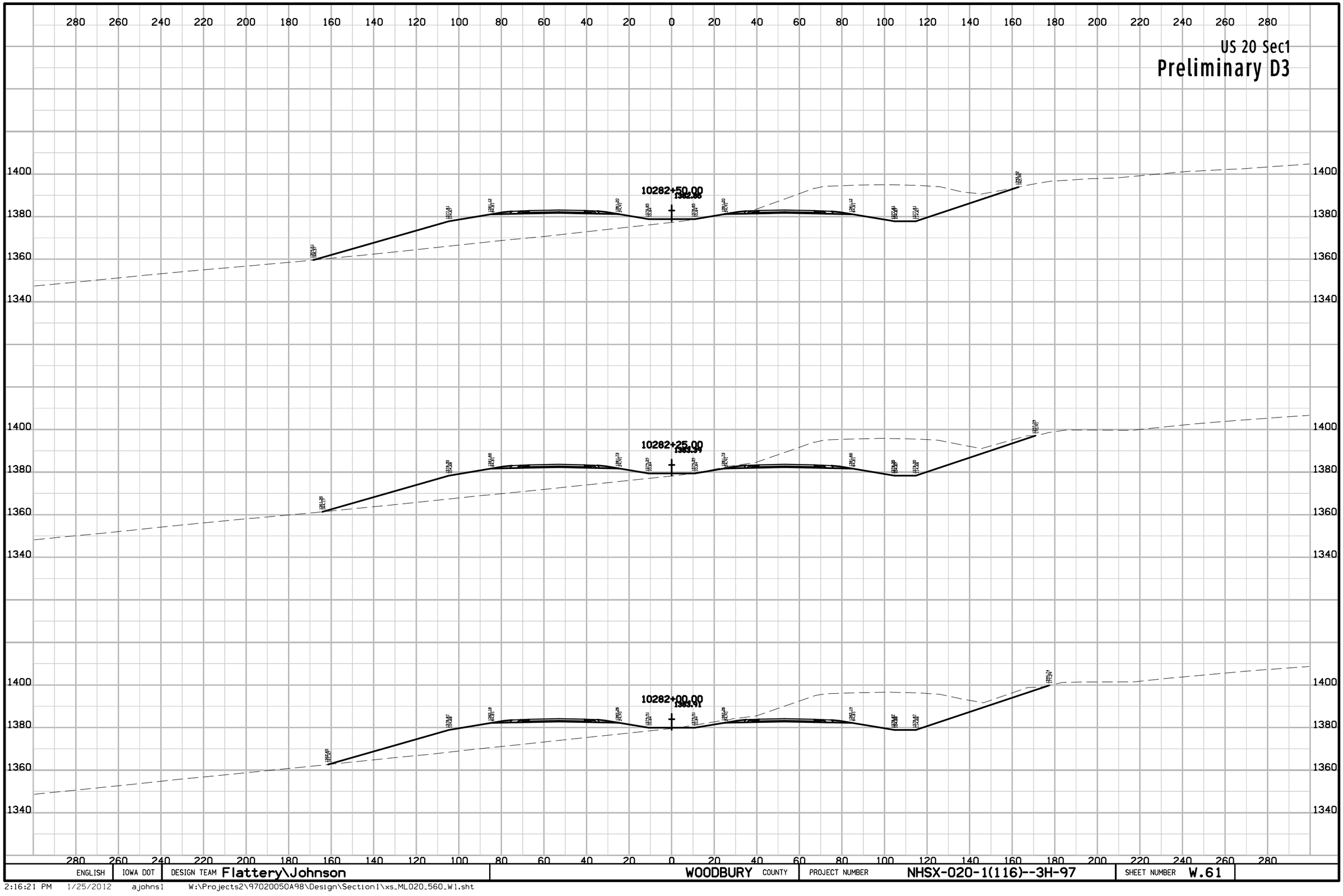


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.60

2:16:20 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

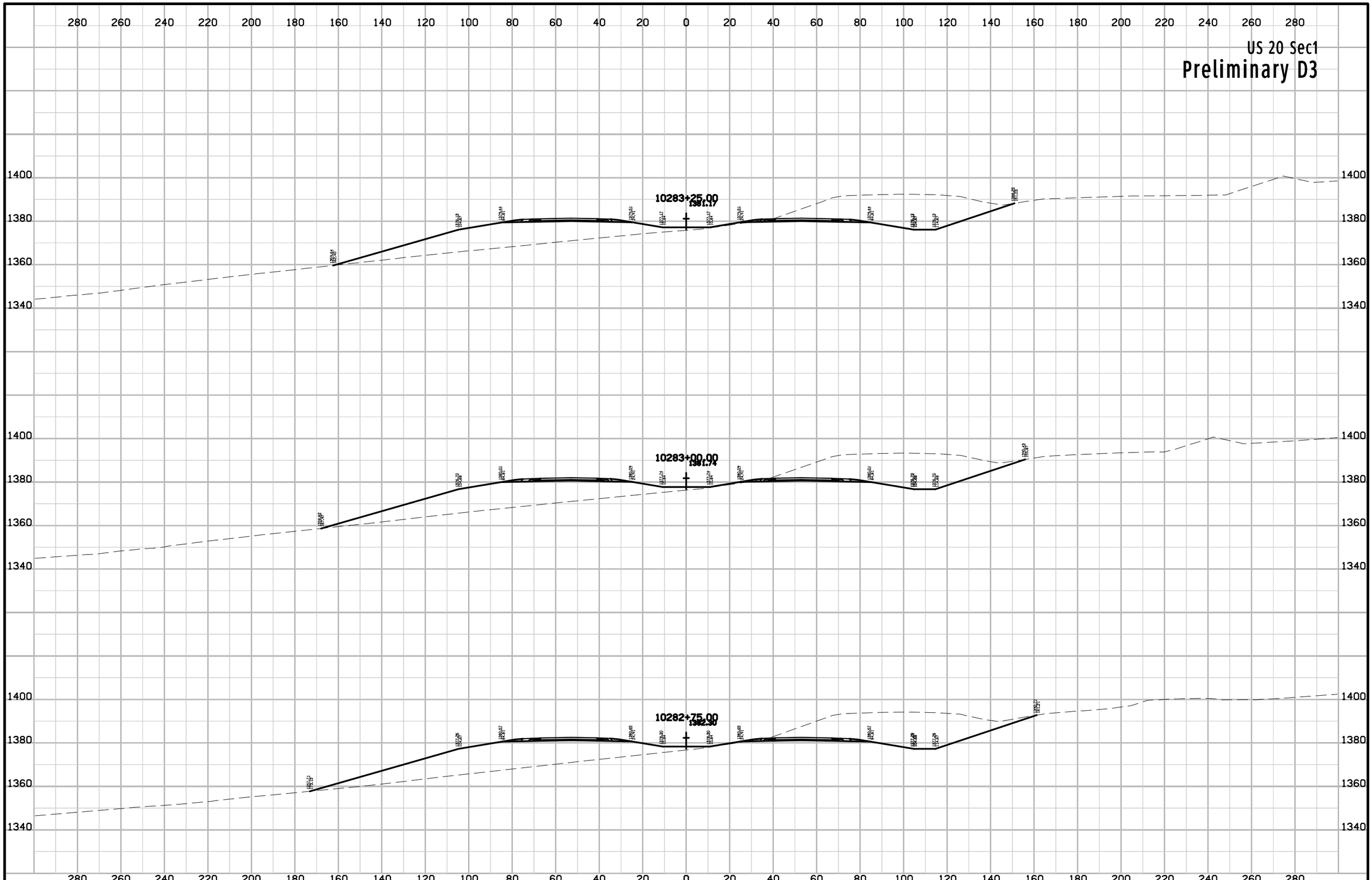


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.61

2:16:21 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

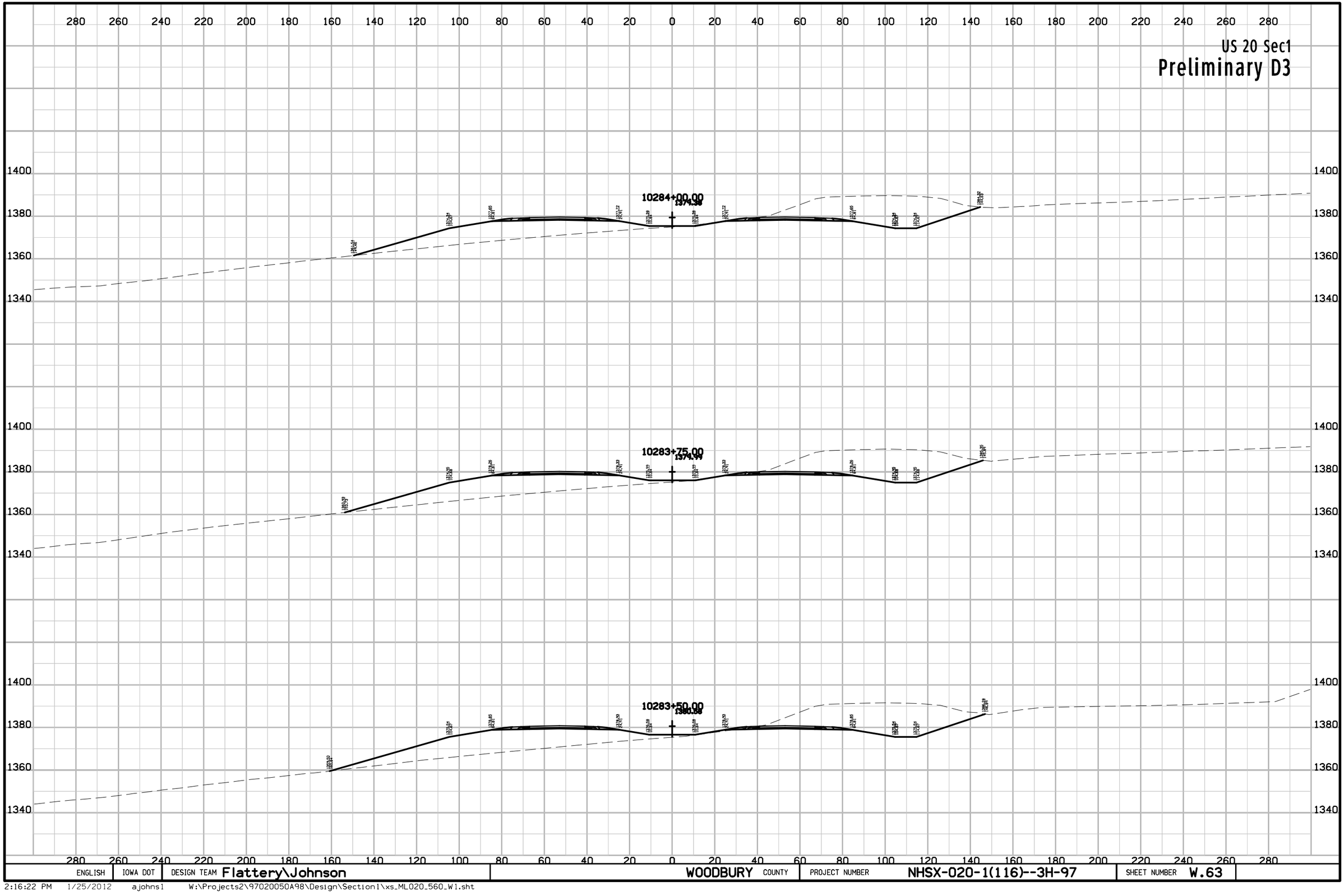


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.62

2:16:22 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

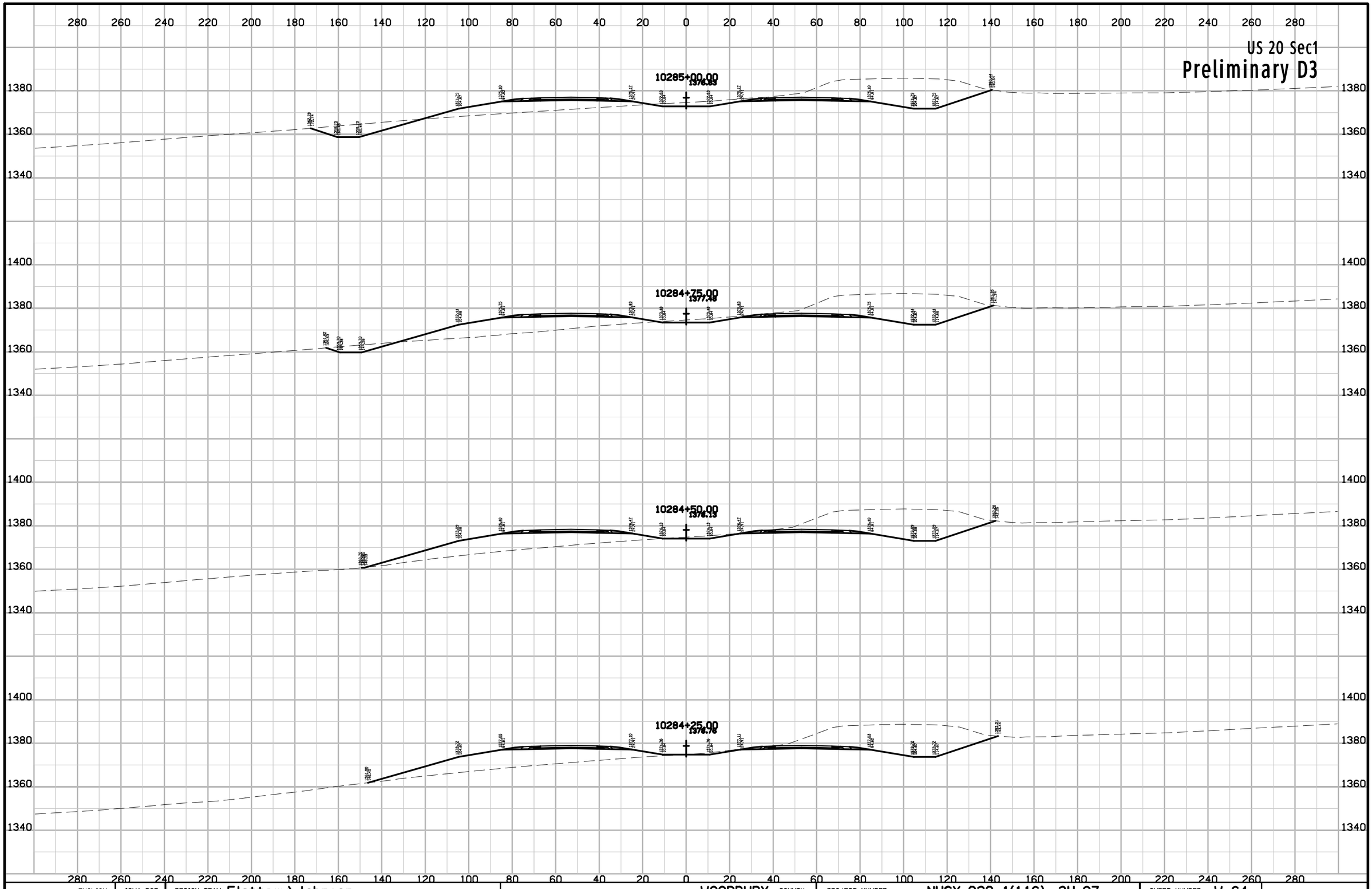


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.63

2:16:22 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

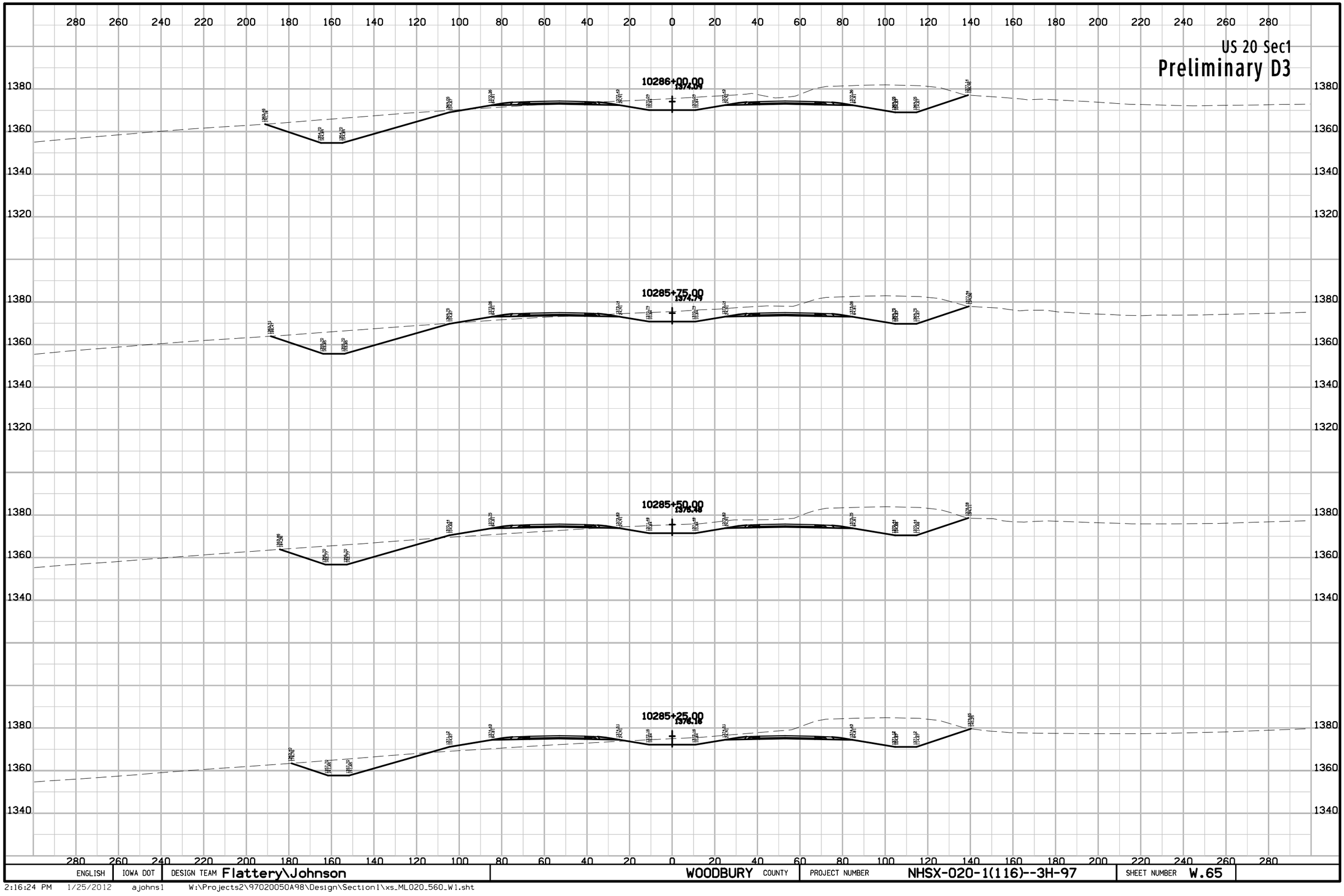


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.64

2:16:23 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

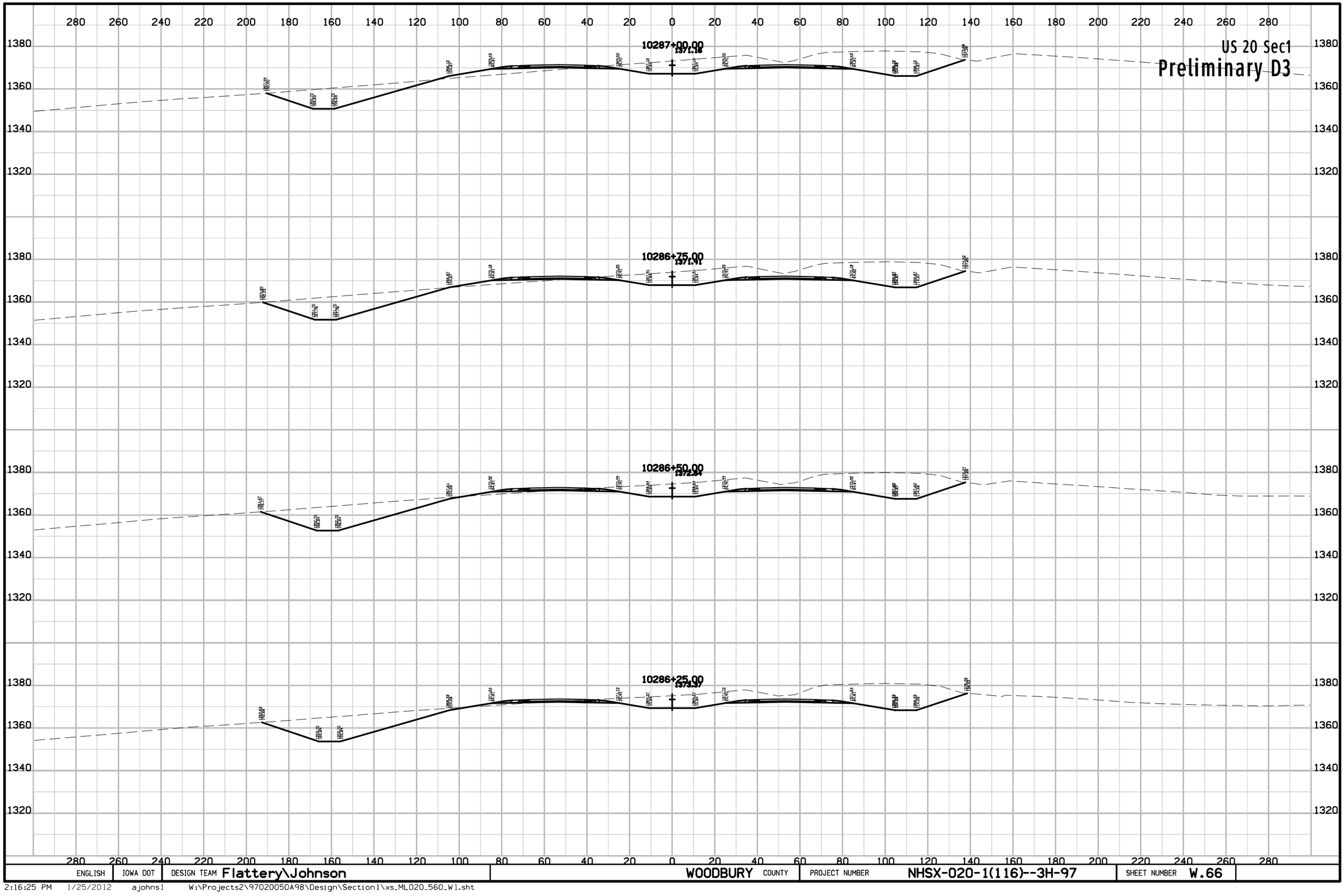


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.65

2:16:24 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

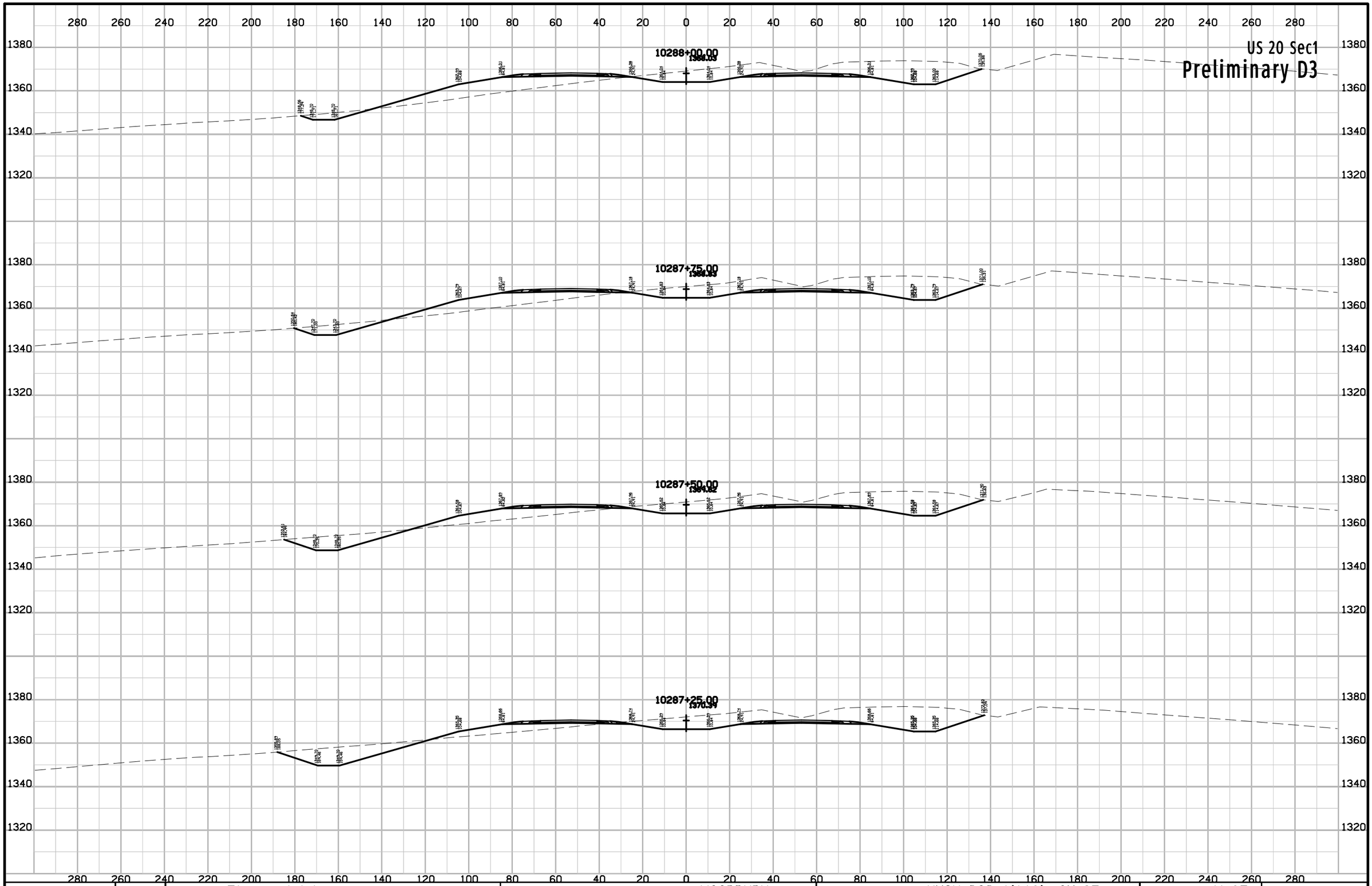


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.66

2:16:25 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

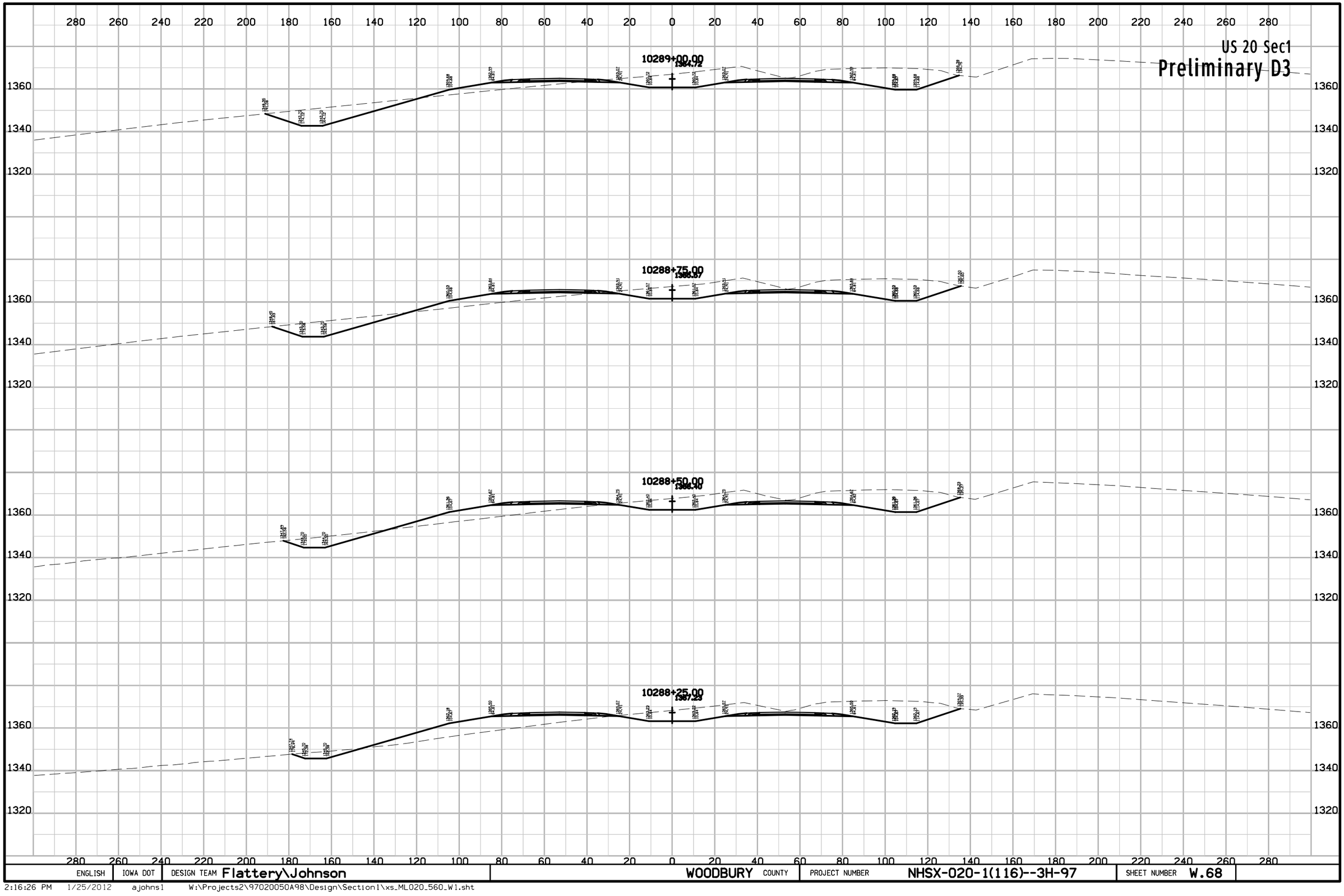


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.67

2:16:25 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

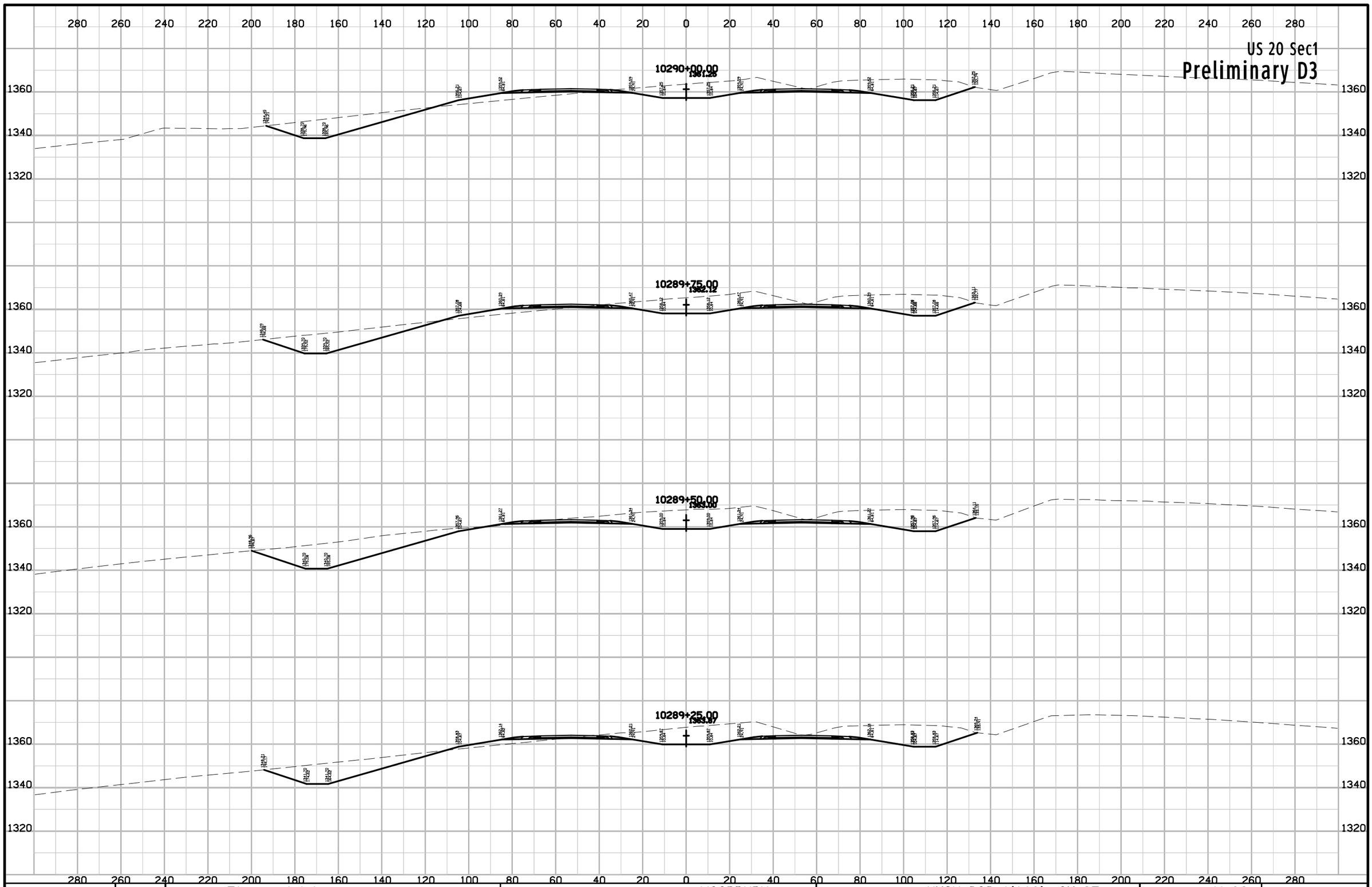


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.68

2:16:26 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

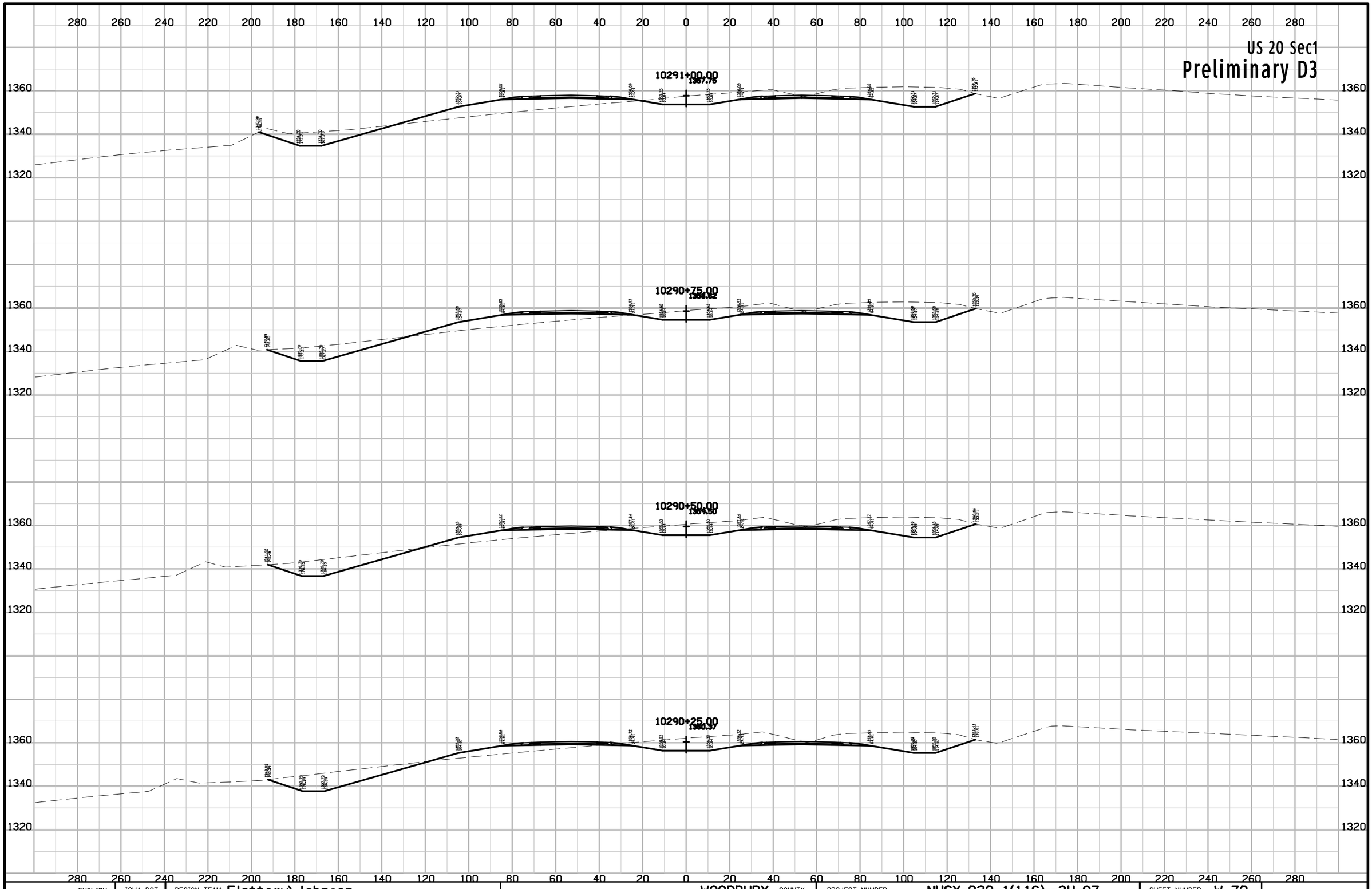


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.69

2:16:27 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

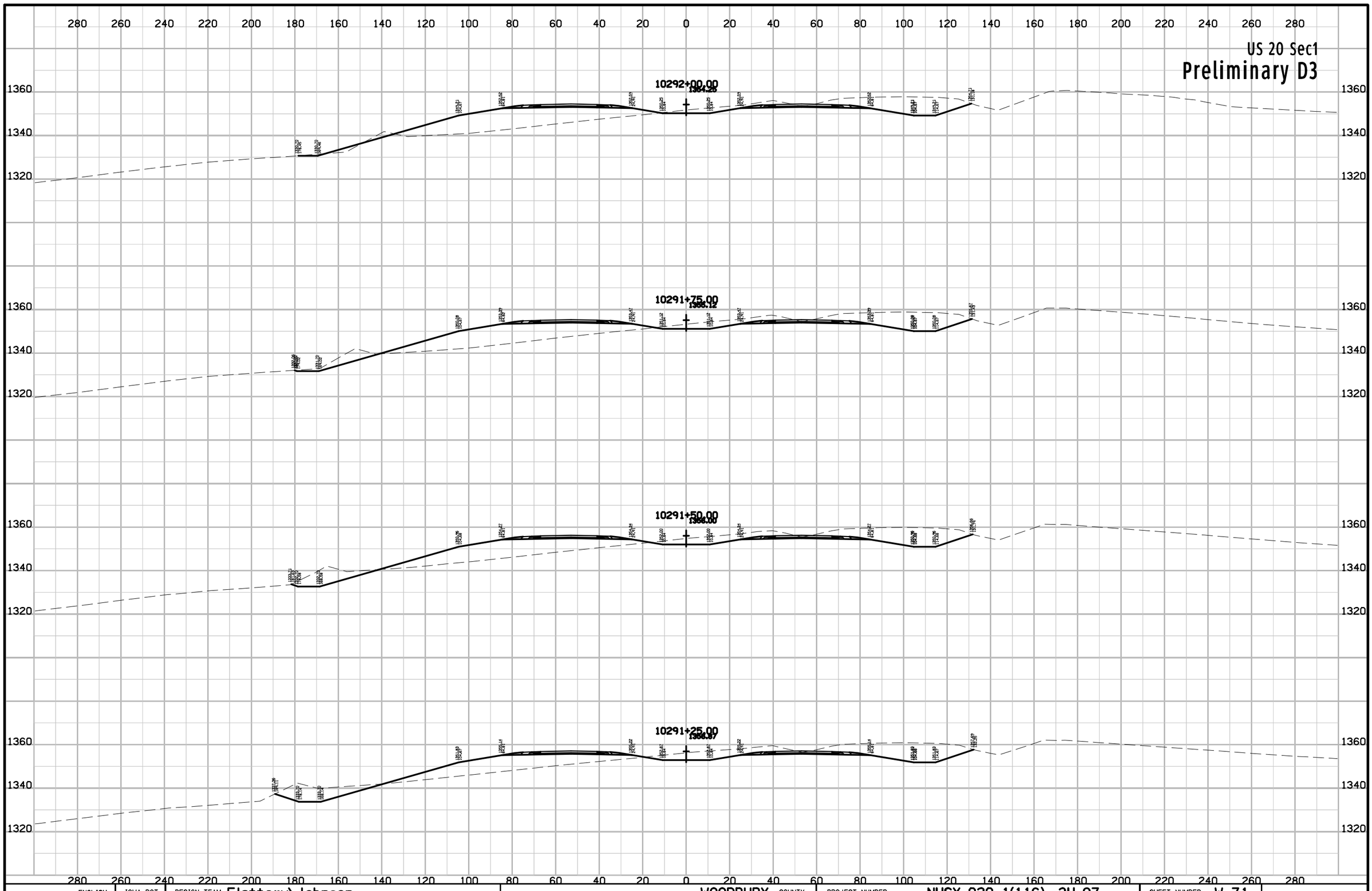


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.70

2:16:27 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

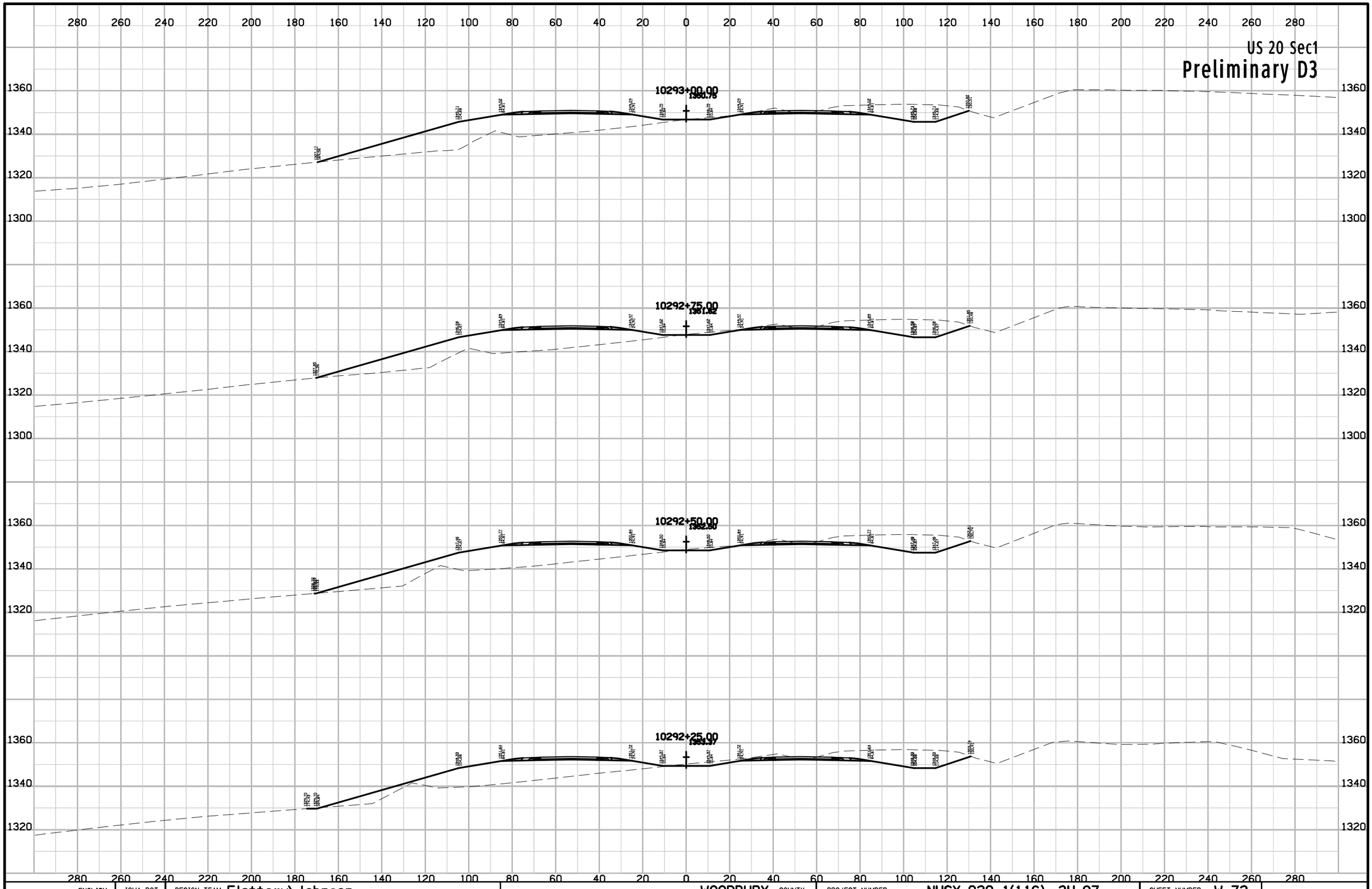


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER	W.71

2:16:28 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

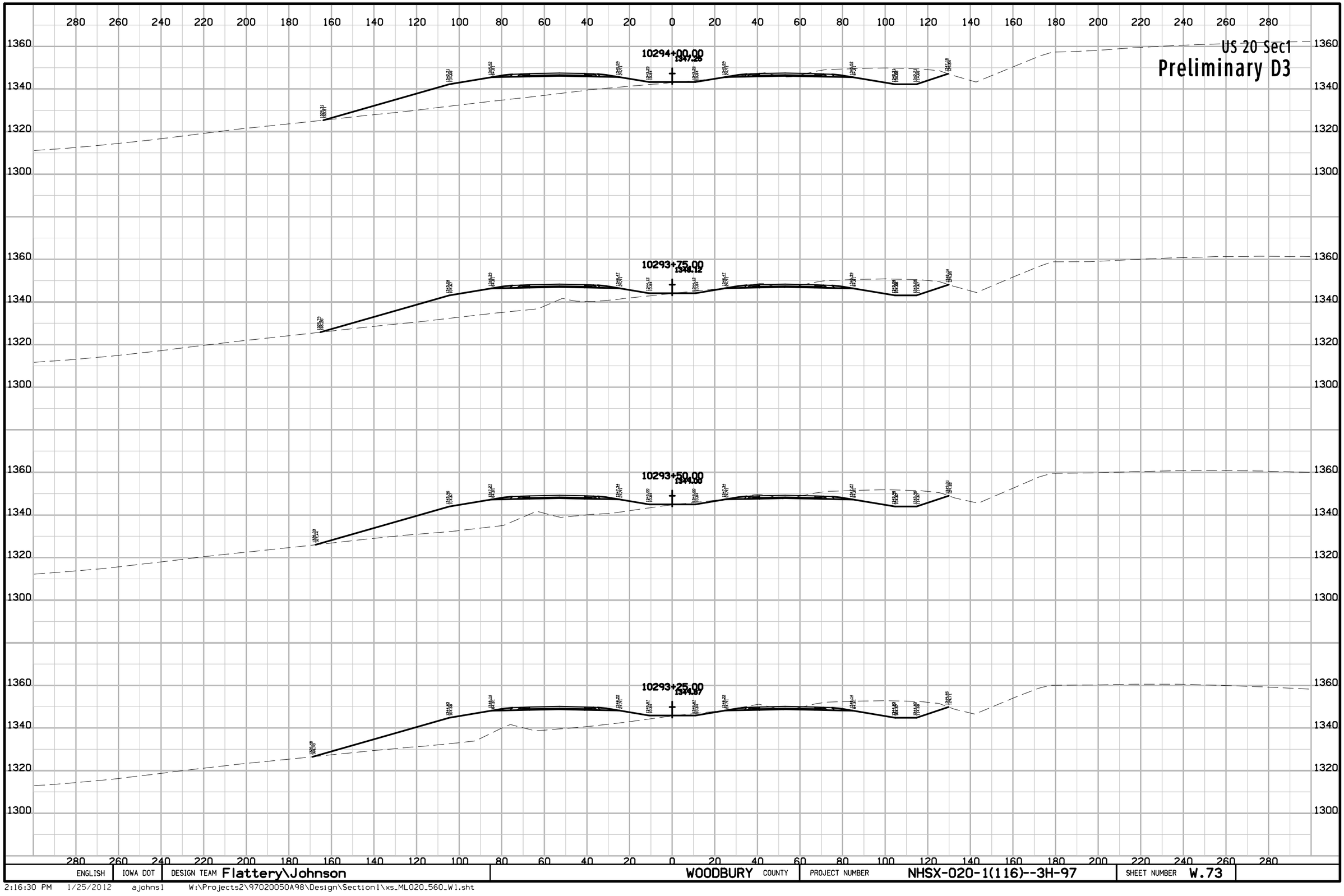


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.72

2:16:29 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

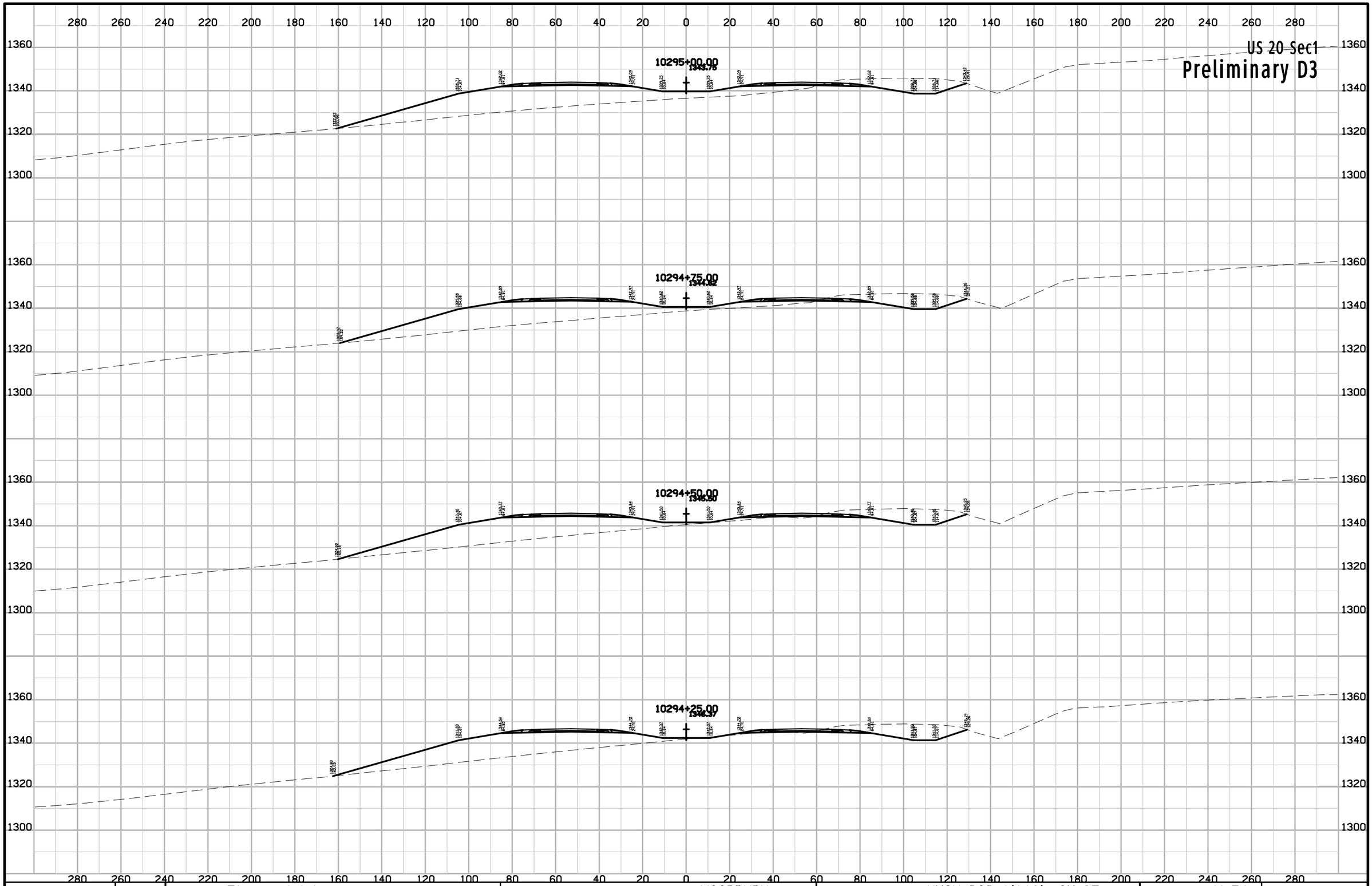


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.73

2:16:30 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

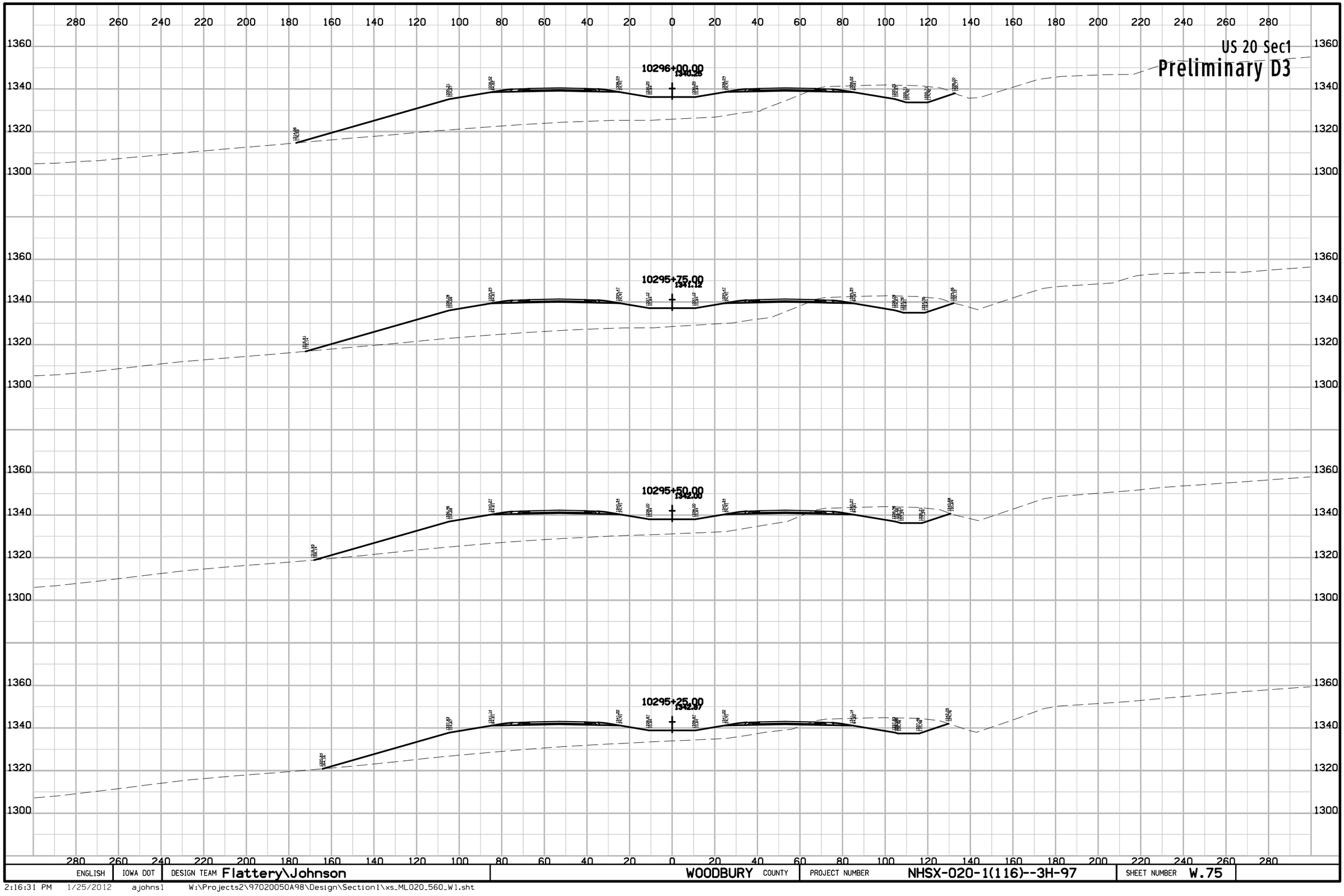


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.74

2:16:30 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.75

2:16:31 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

10297+00.00
1336.78

10296+75.00
1337.82

10296+50.00
1336.50

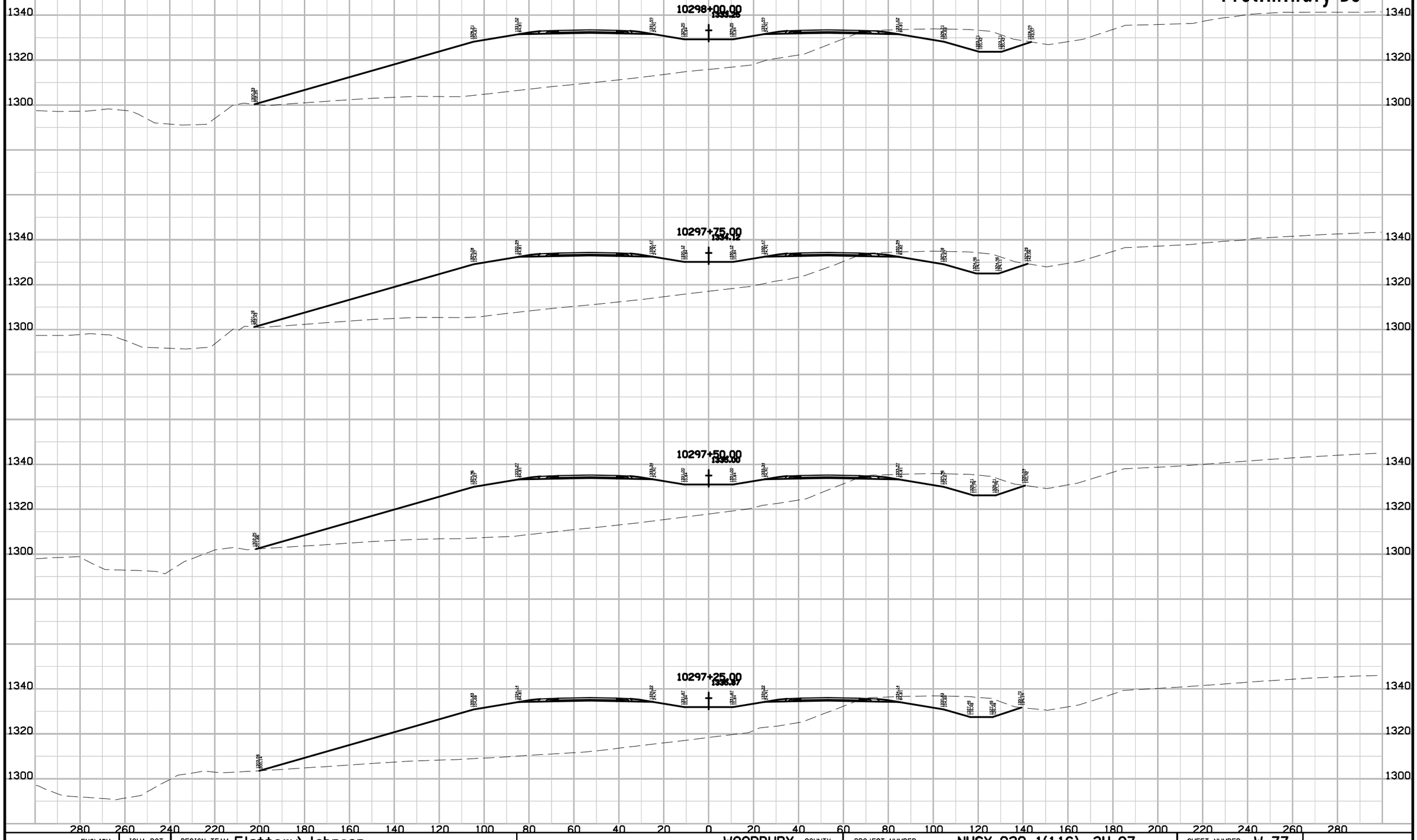
10296+25.00
1334.97

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.76

2:16:32 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

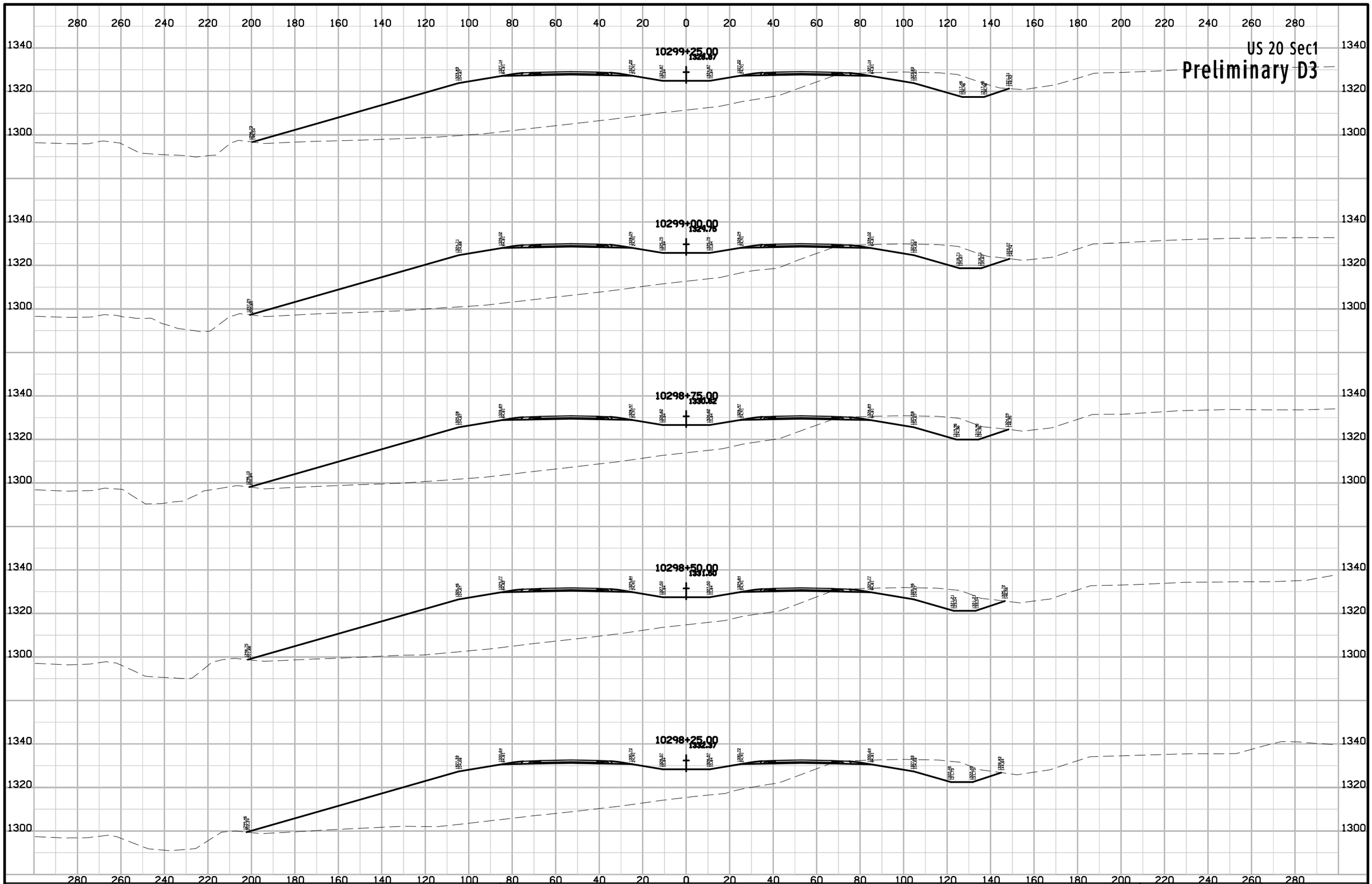


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.77

2:16:32 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

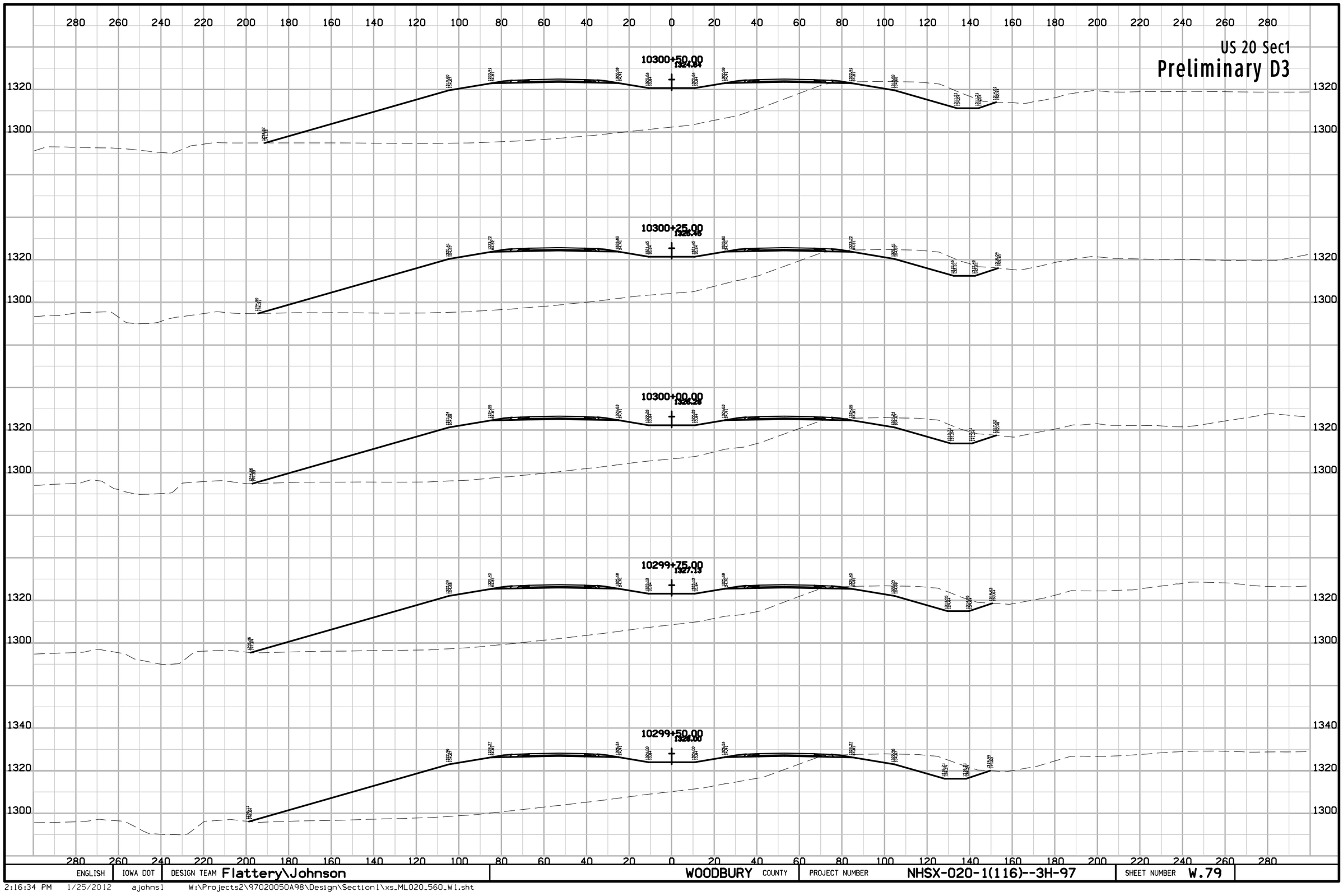


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.78

2:16:33 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

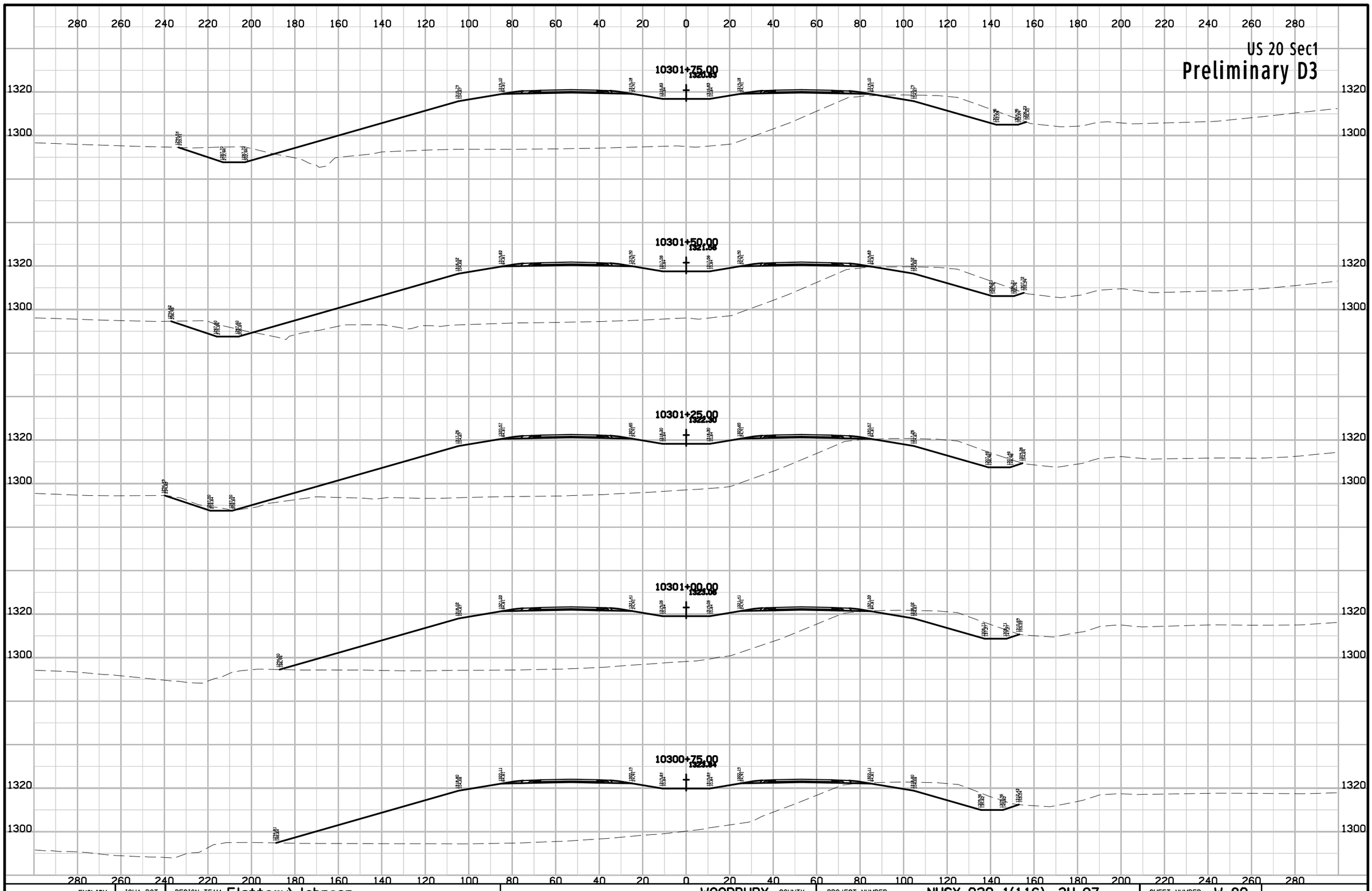


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER	W.79

2:16:34 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

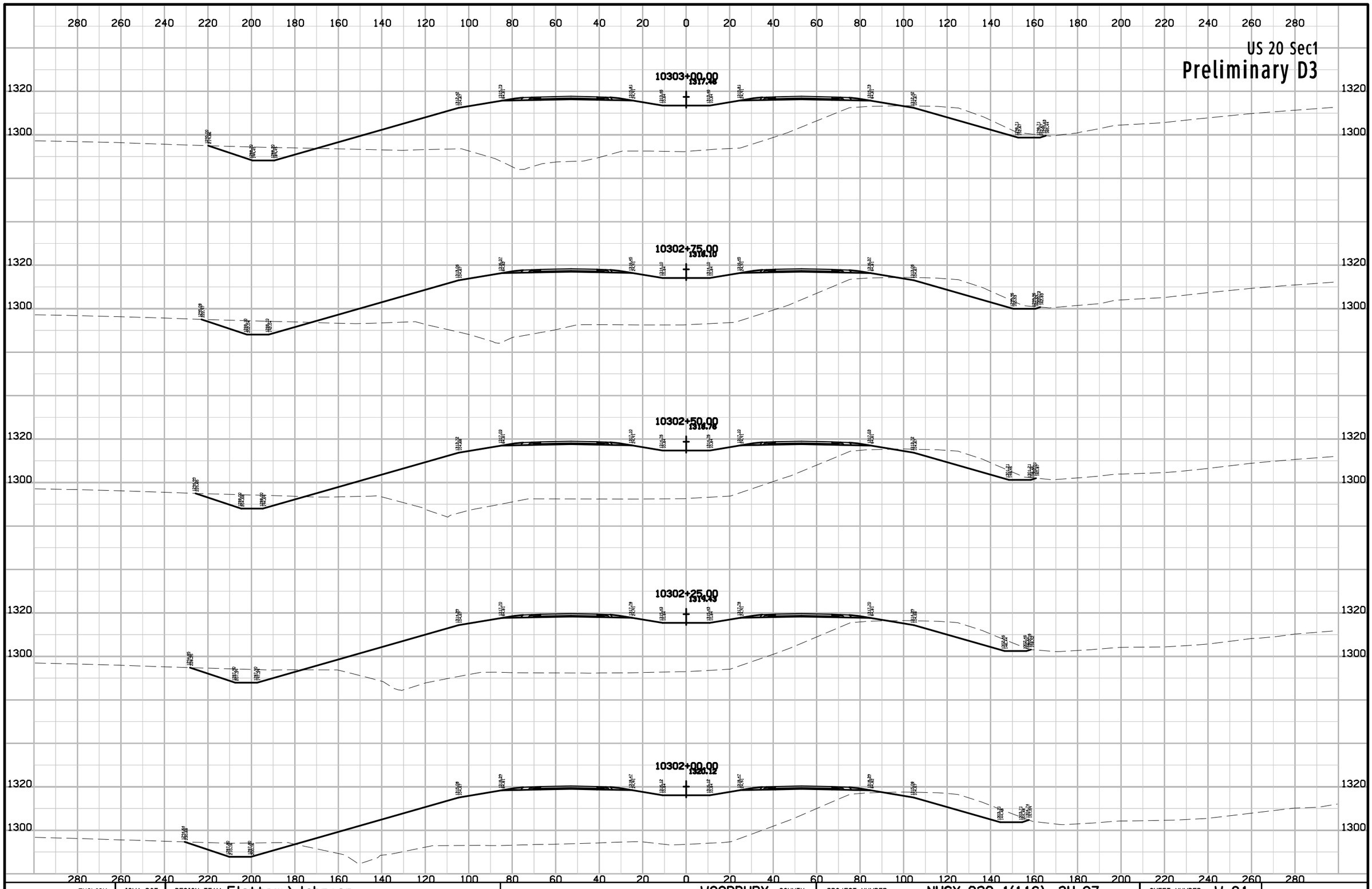


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.80

2:16:34 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.81

2:16:35 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

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

10304+25.00
1314.39

10304+00.00
1315.08

10303+75.00
1315.86

10303+50.00
1316.24

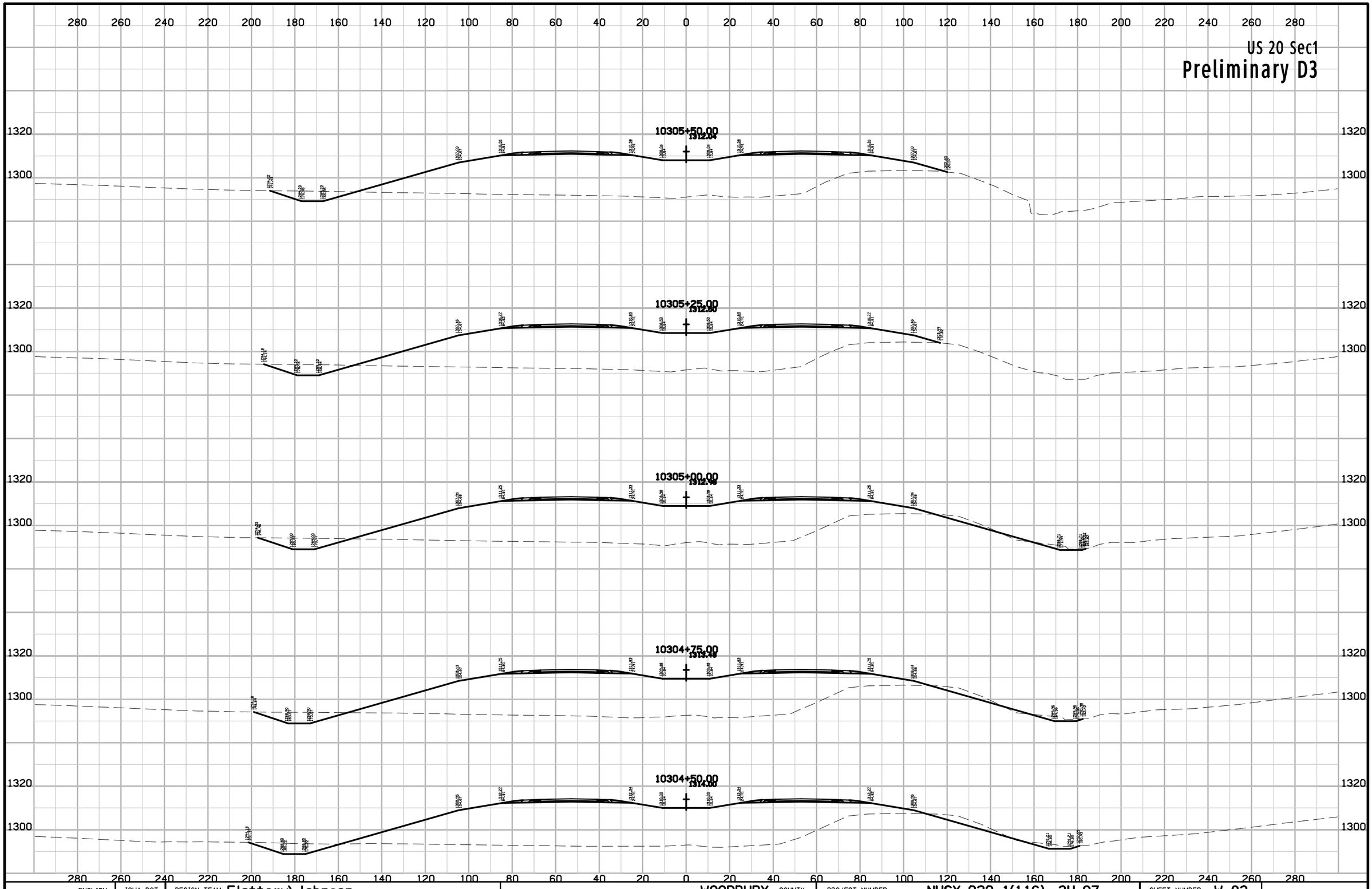
10303+25.00
1316.94

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

2:16:36 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

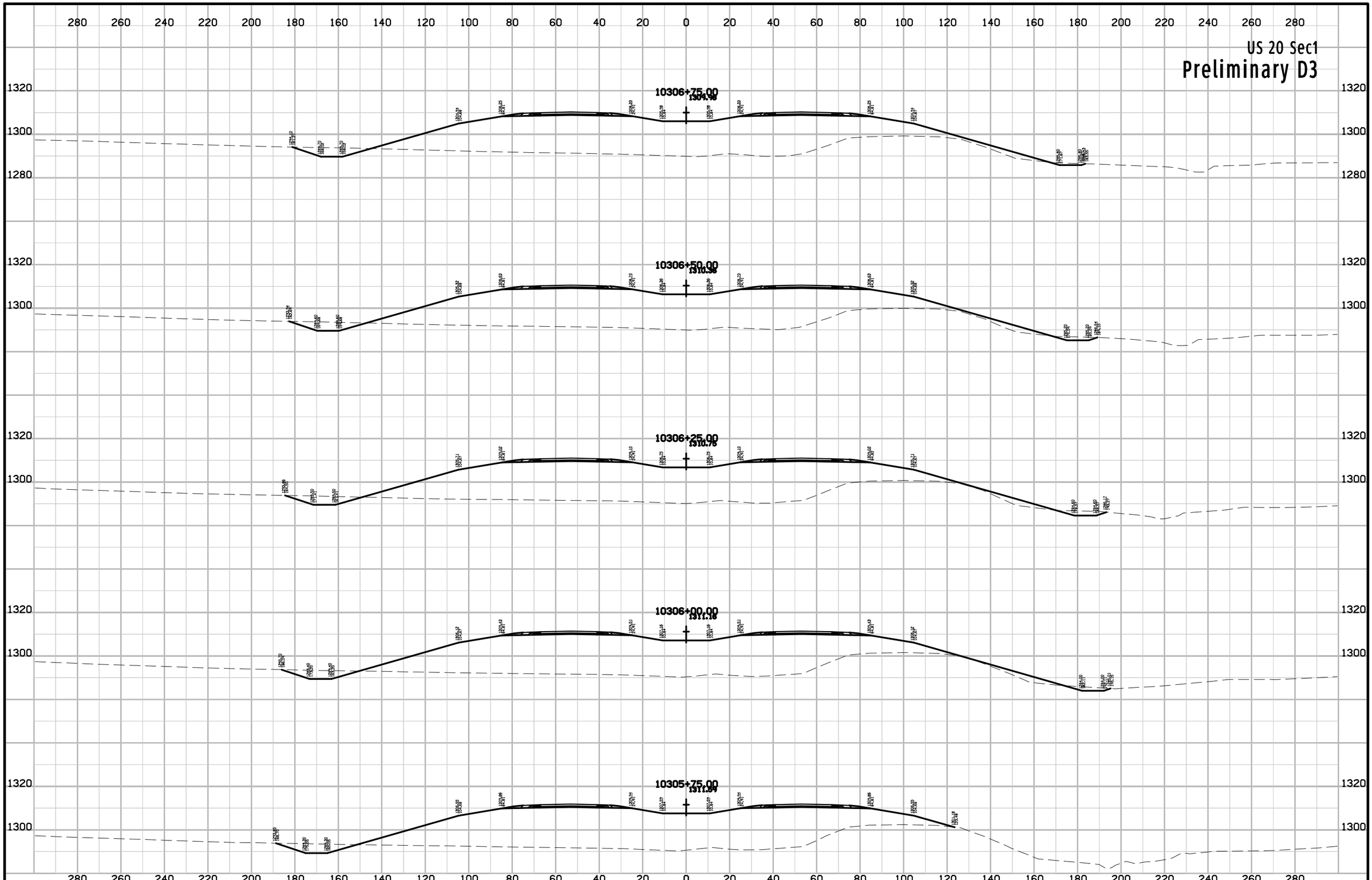


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.83

2:16:37 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

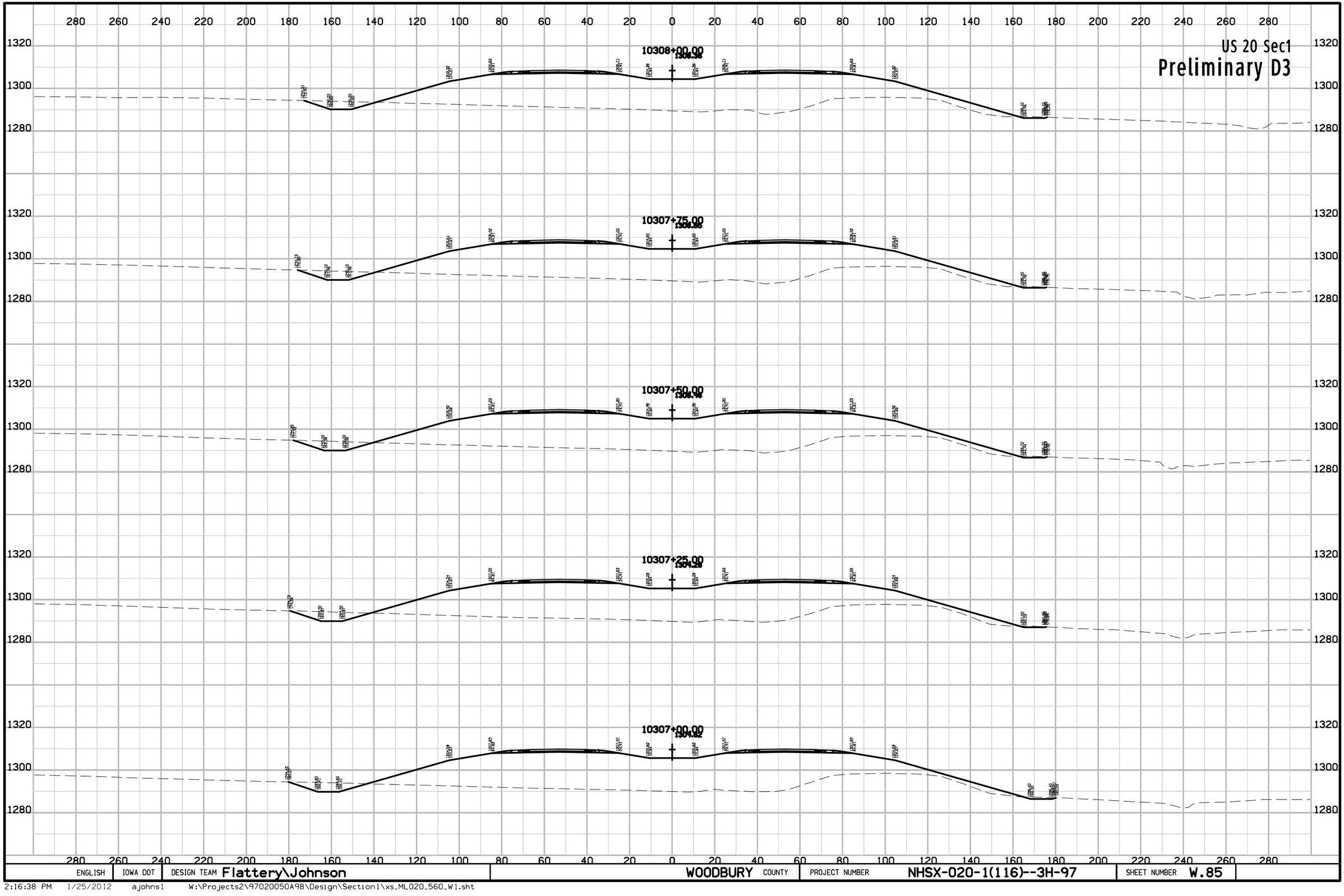


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.84

2:16:37 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.85

2:16:38 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

10309+25.00
1307.18

10309+00.00
1307.38

10308+75.00
1307.80

10308+50.00
1307.84

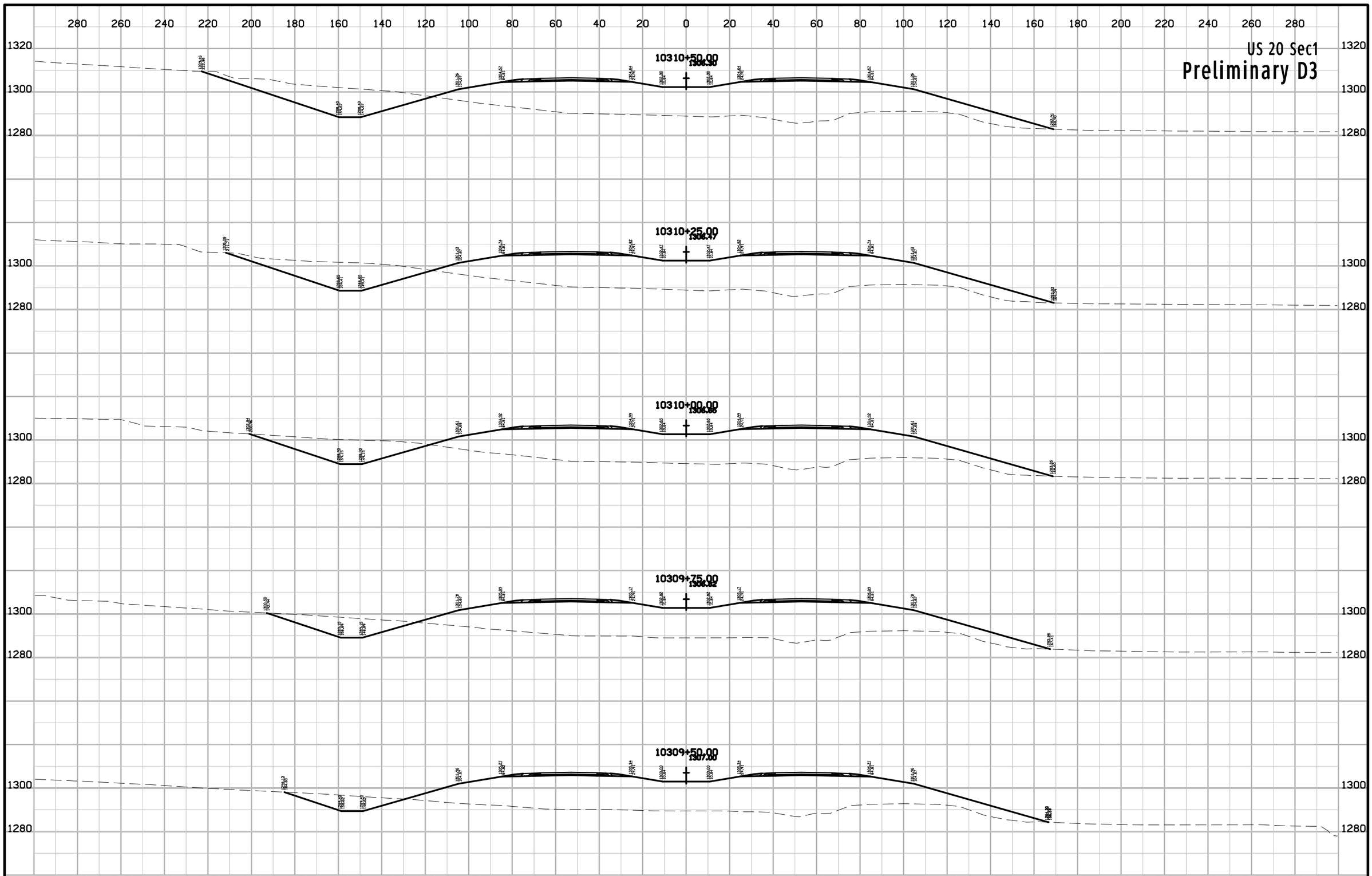
10308+25.00
1308.04

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.86

2:16:39 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

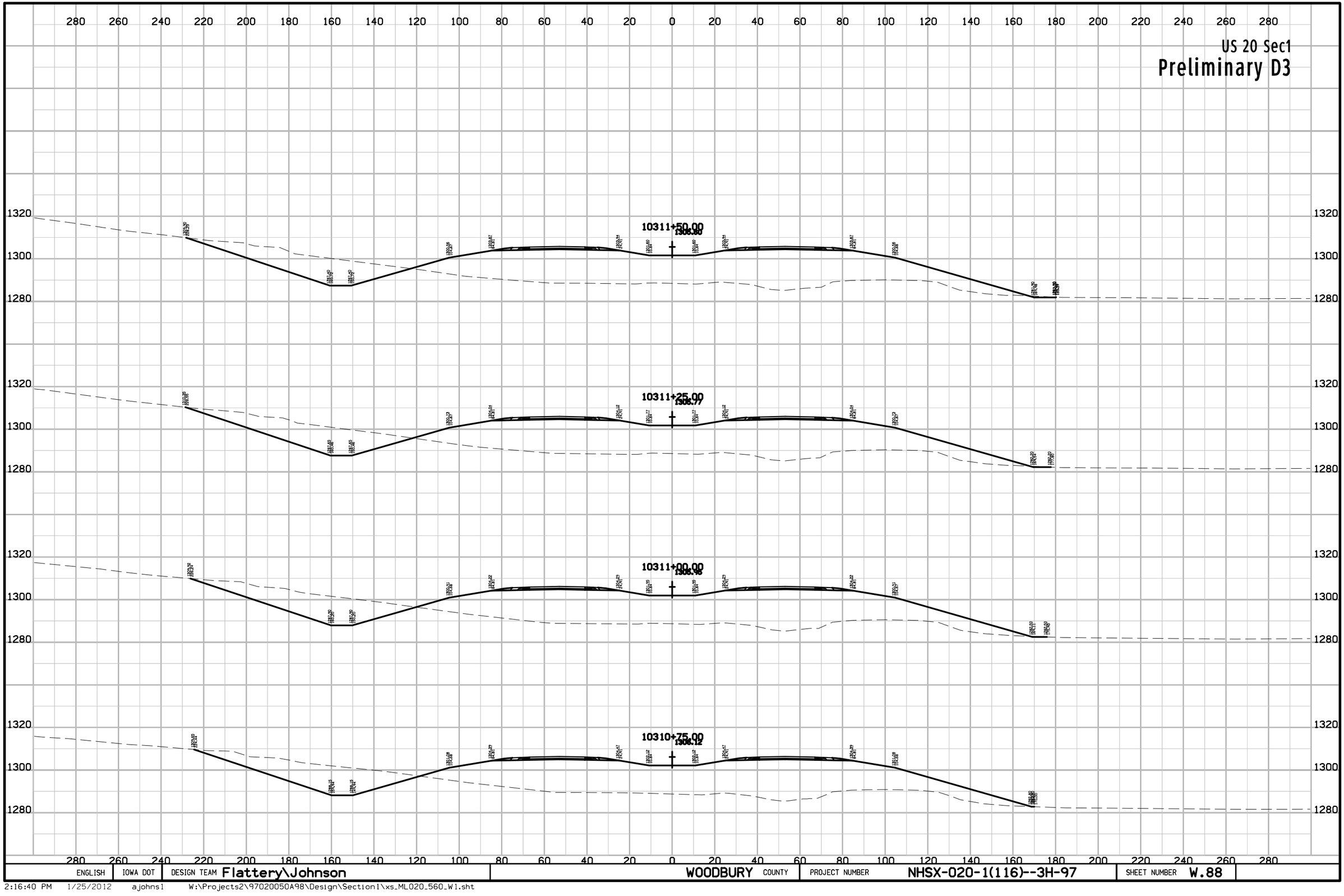


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.87

2:16:39 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

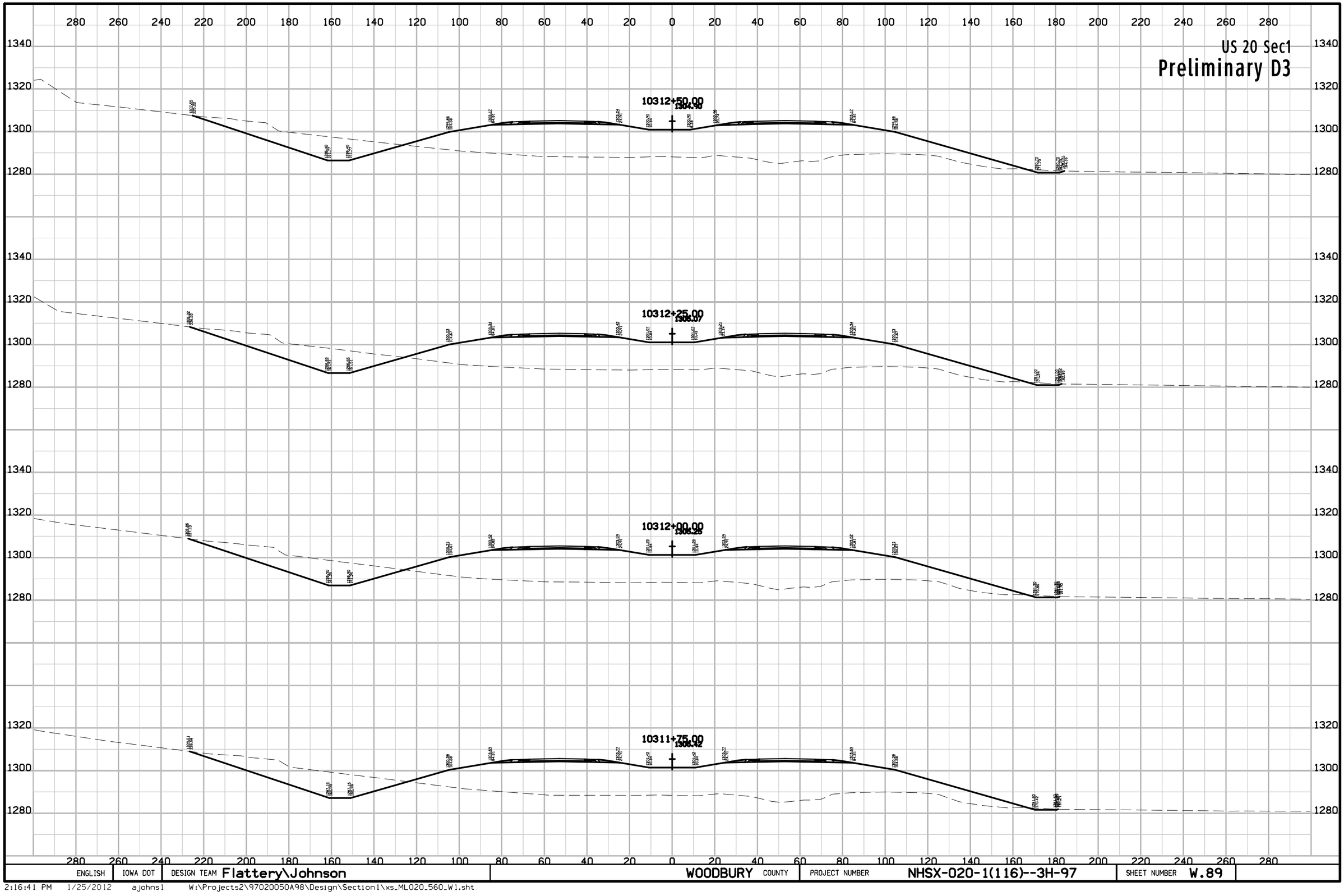


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.88

2:16:40 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

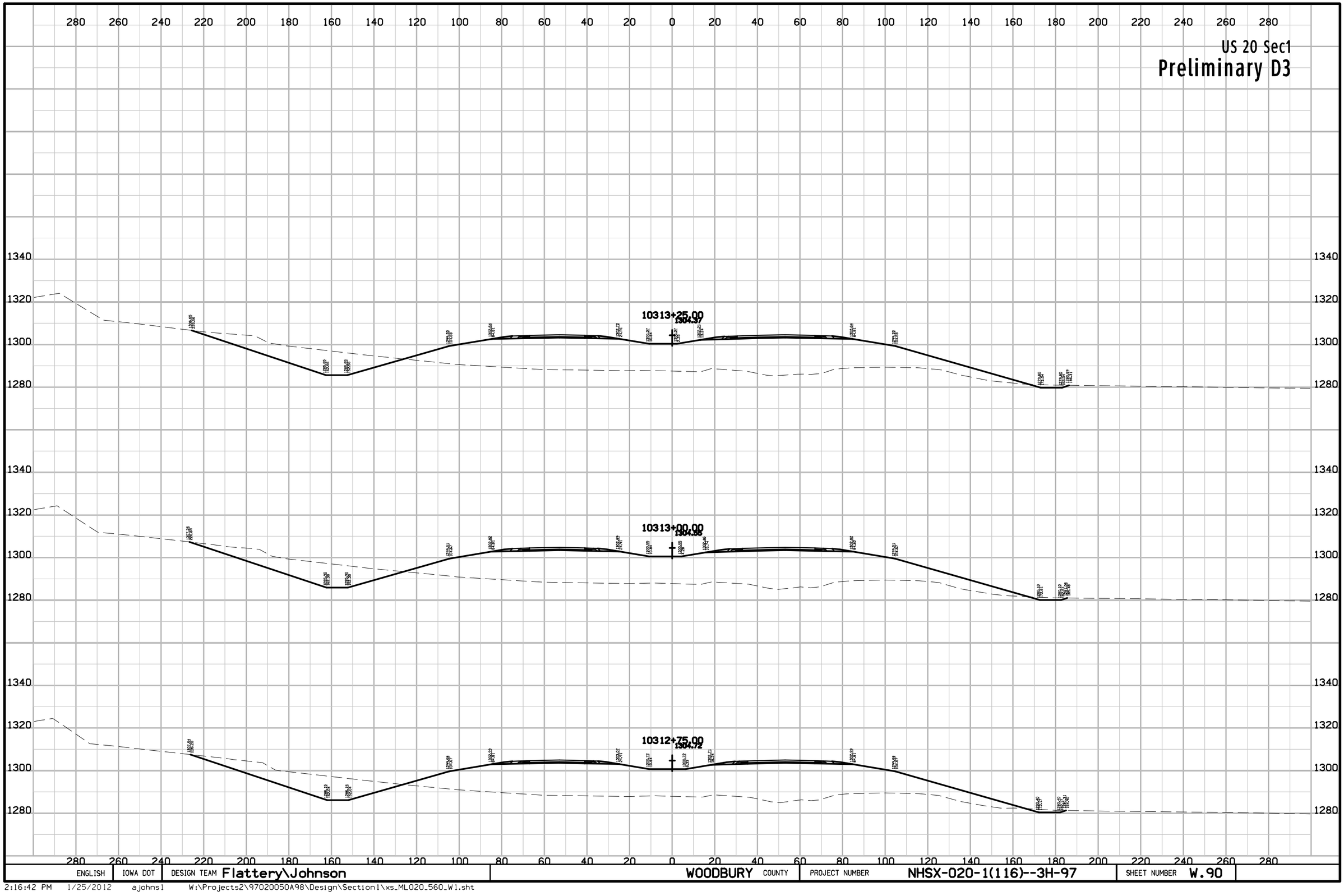


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.89

2:16:41 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

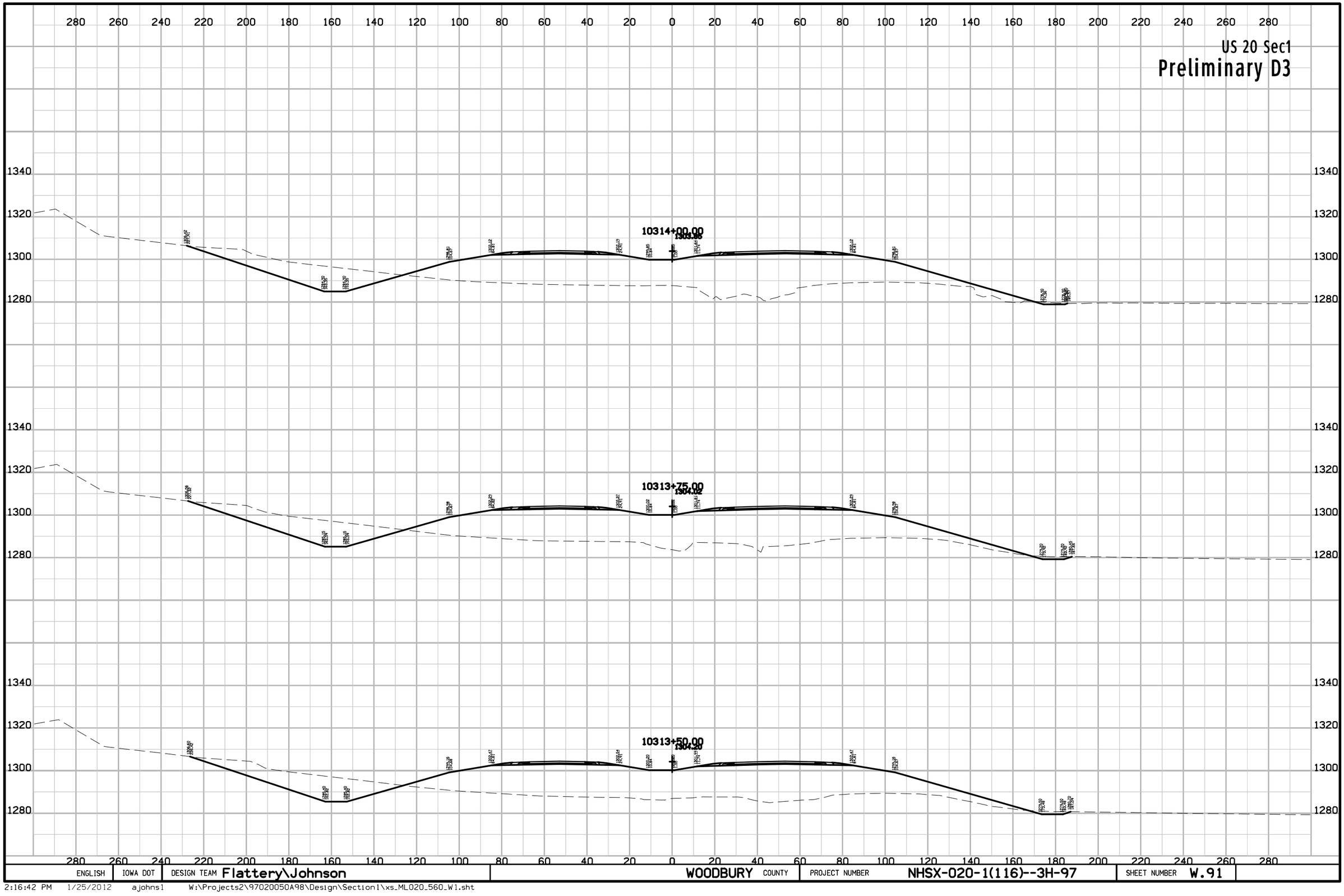


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.90

2:16:42 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

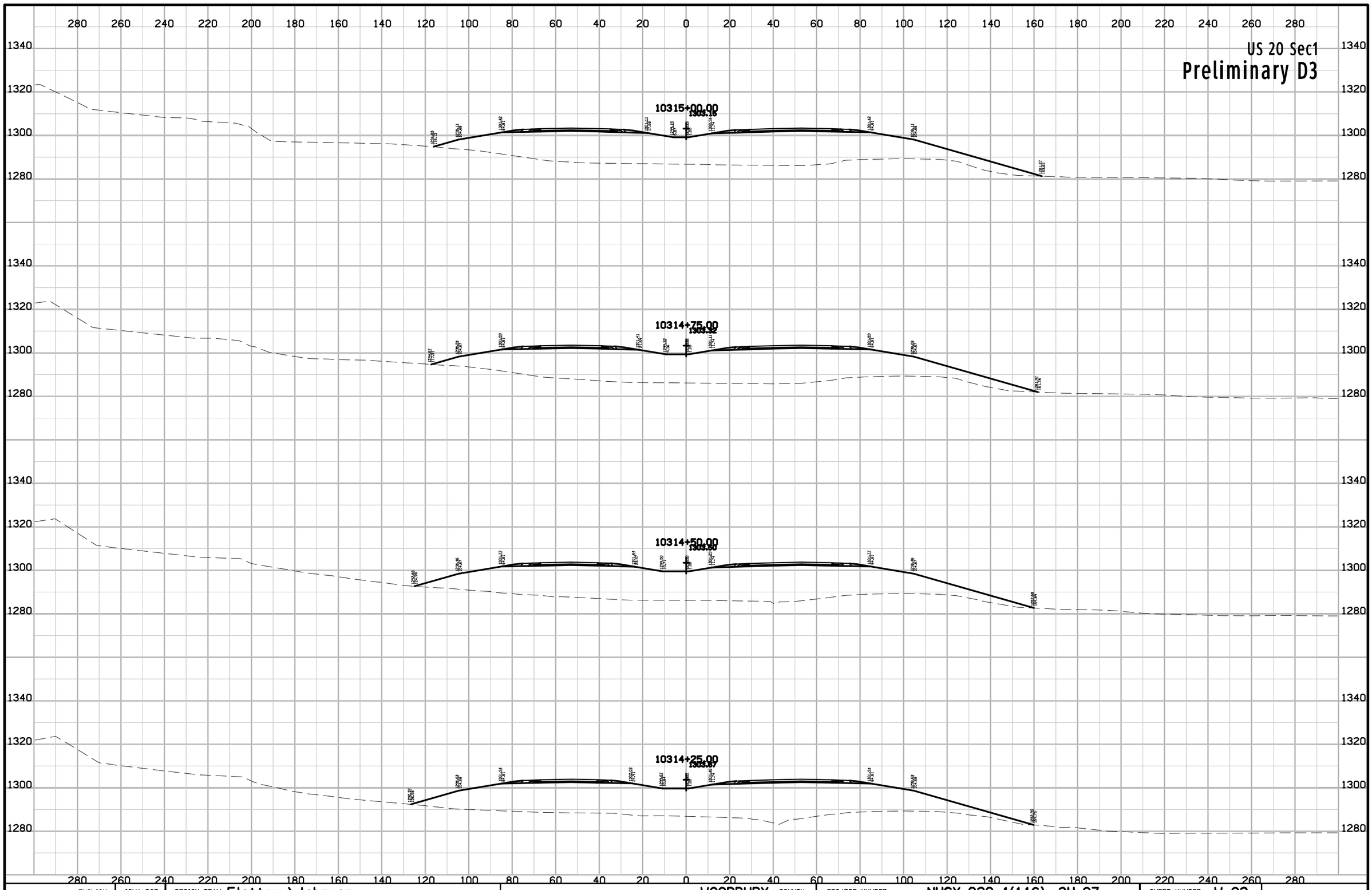


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.91

2:16:42 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

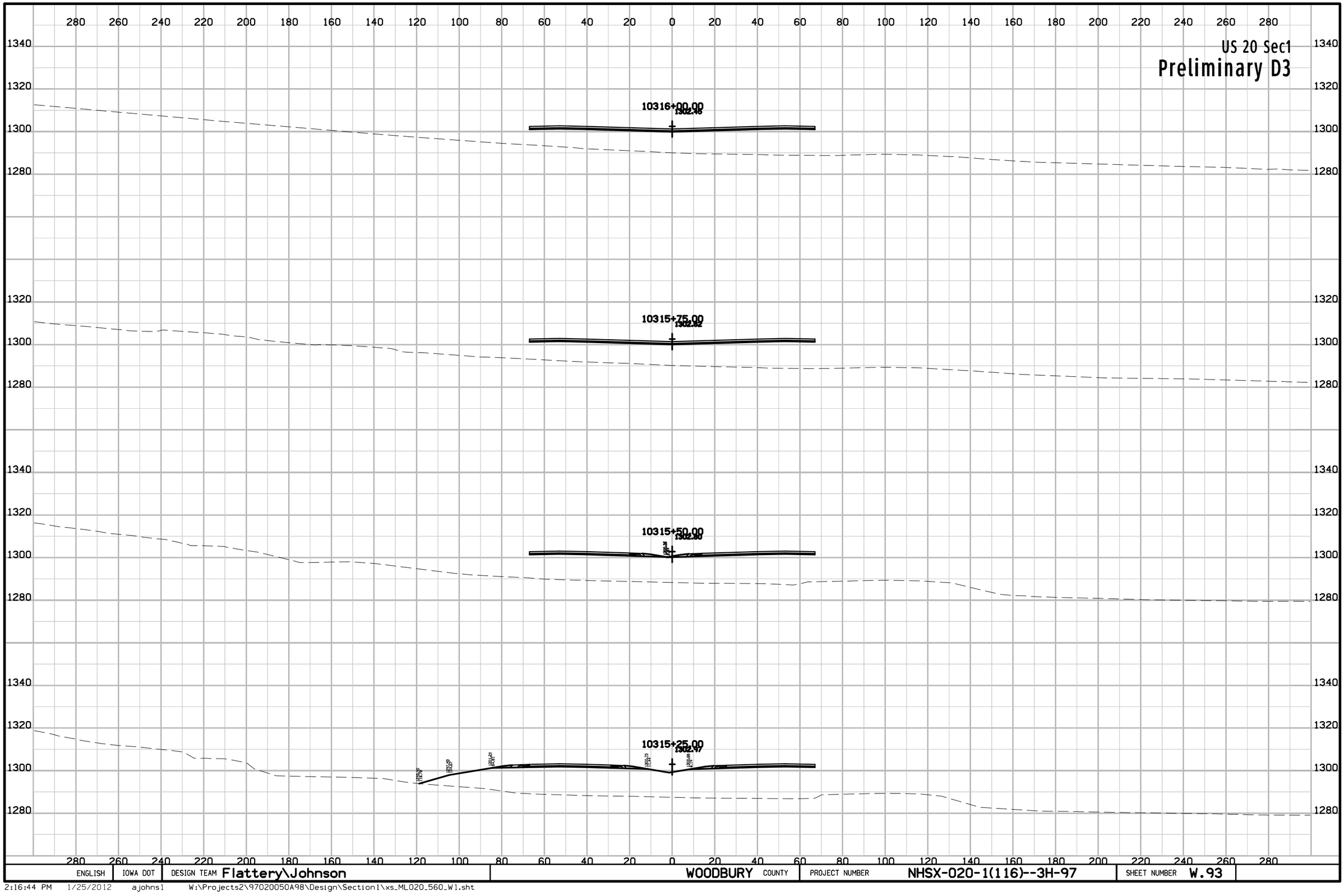


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.92

2:16:43 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

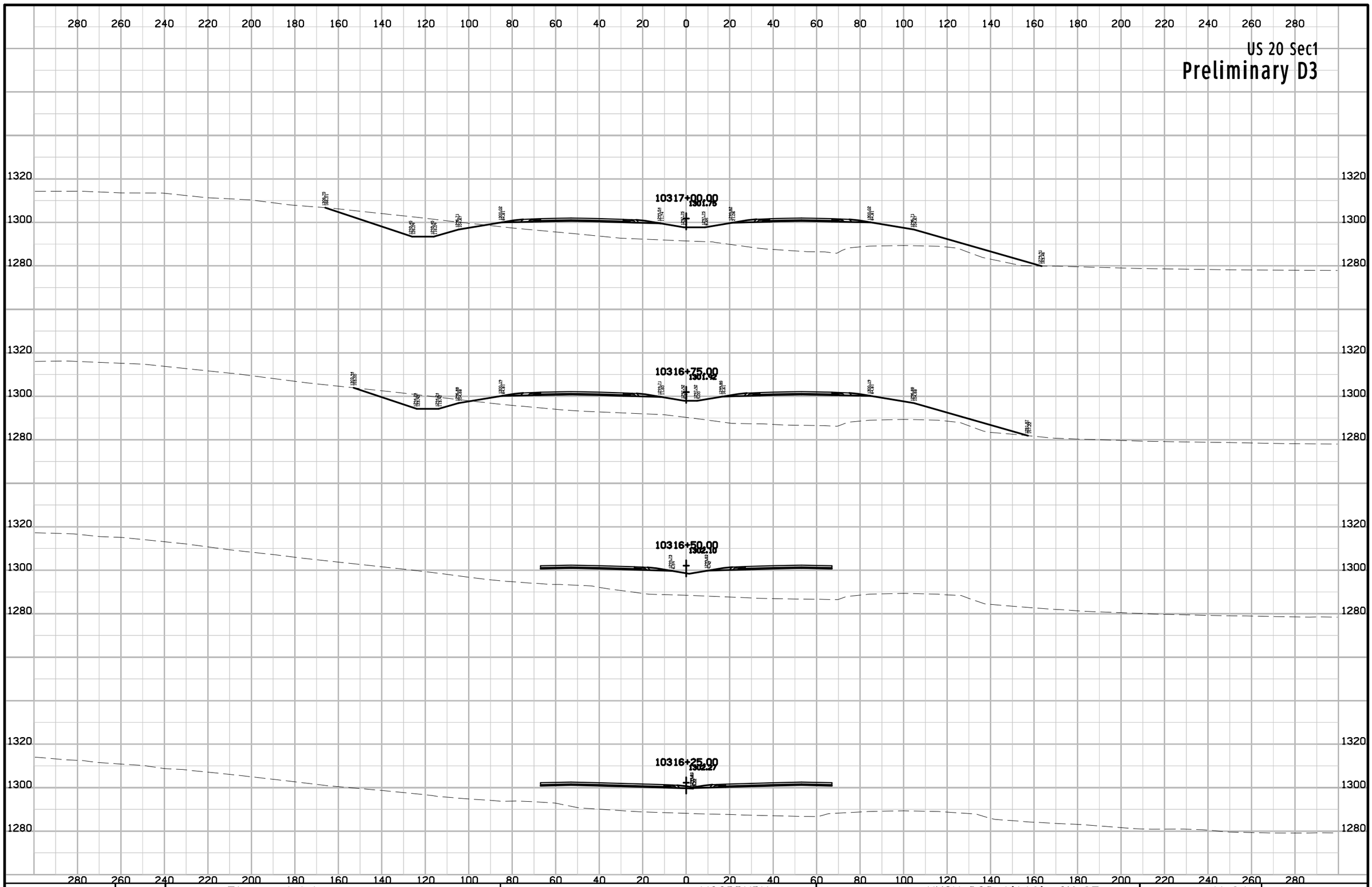


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.93

2:16:44 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

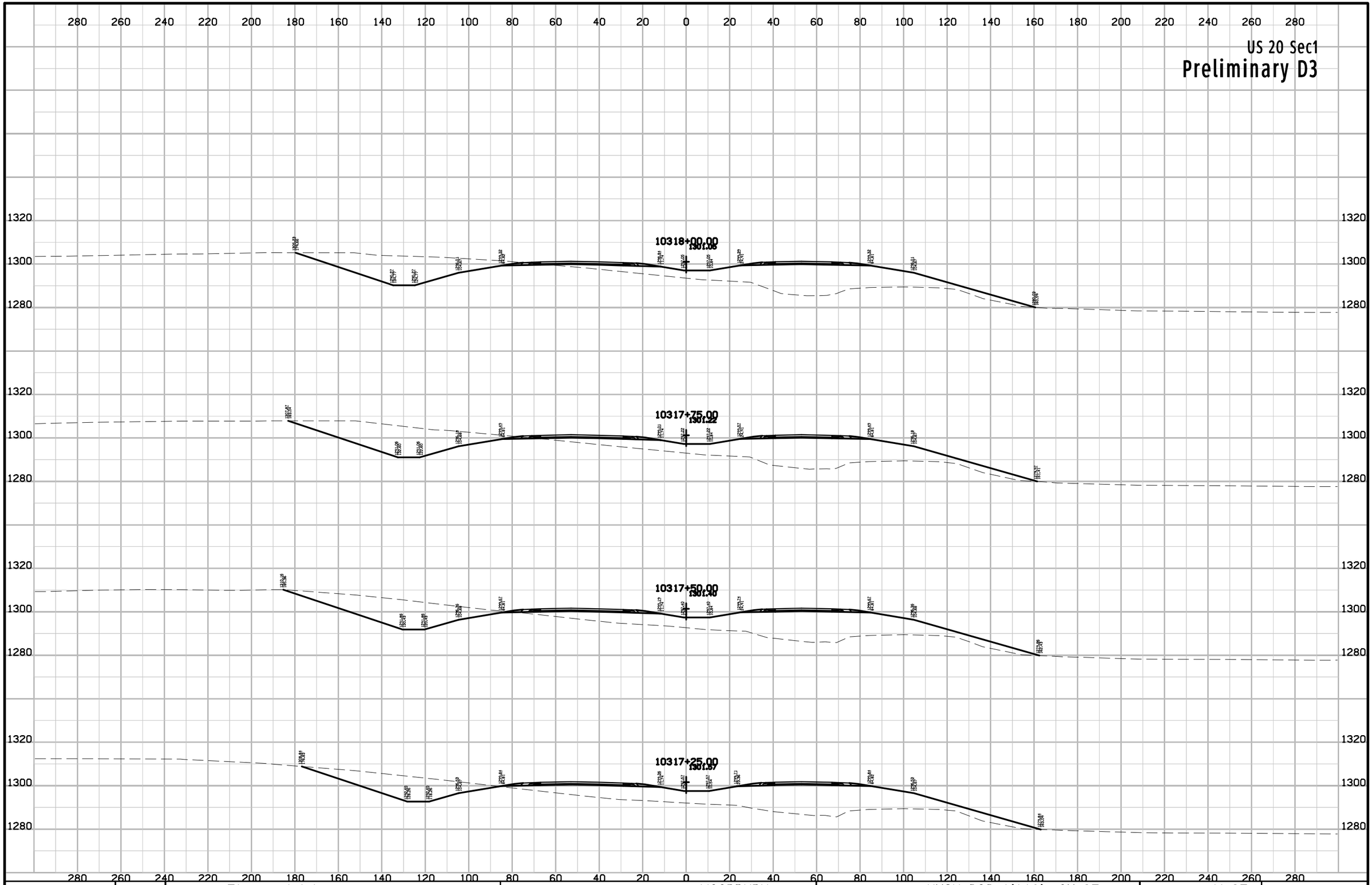


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.94

2:16:44 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

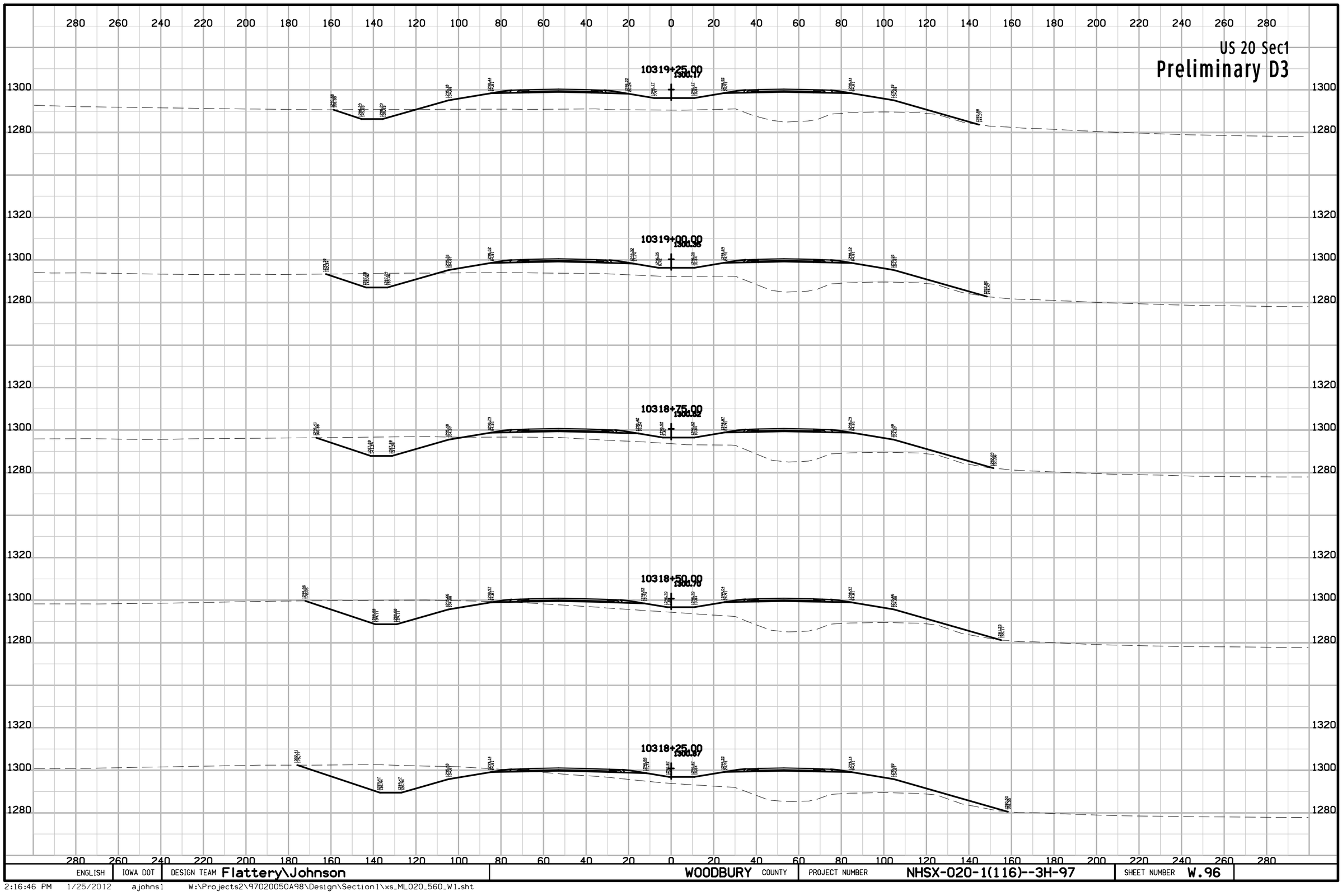


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.95

2:16:45 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

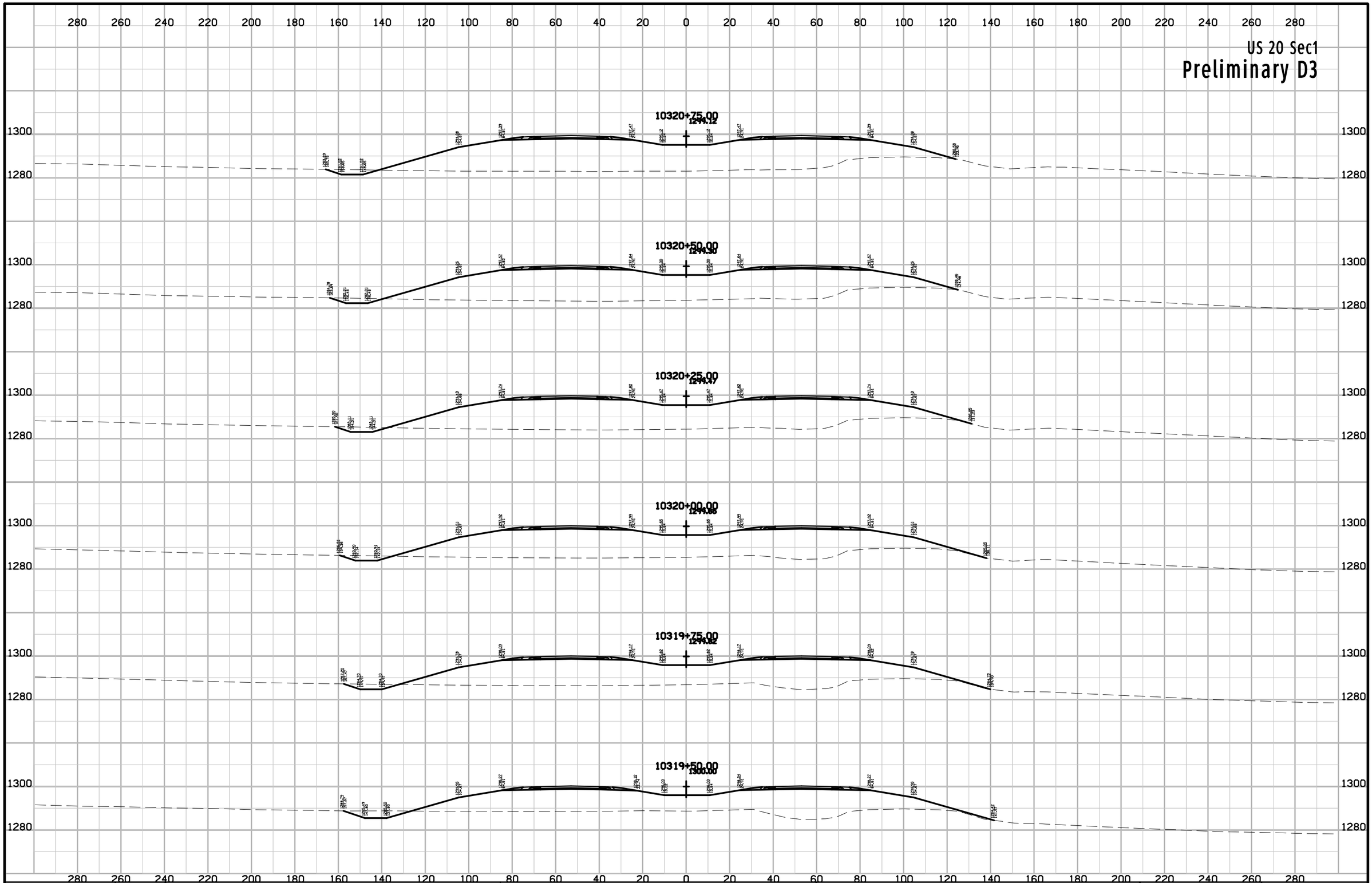


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.96

2:16:46 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

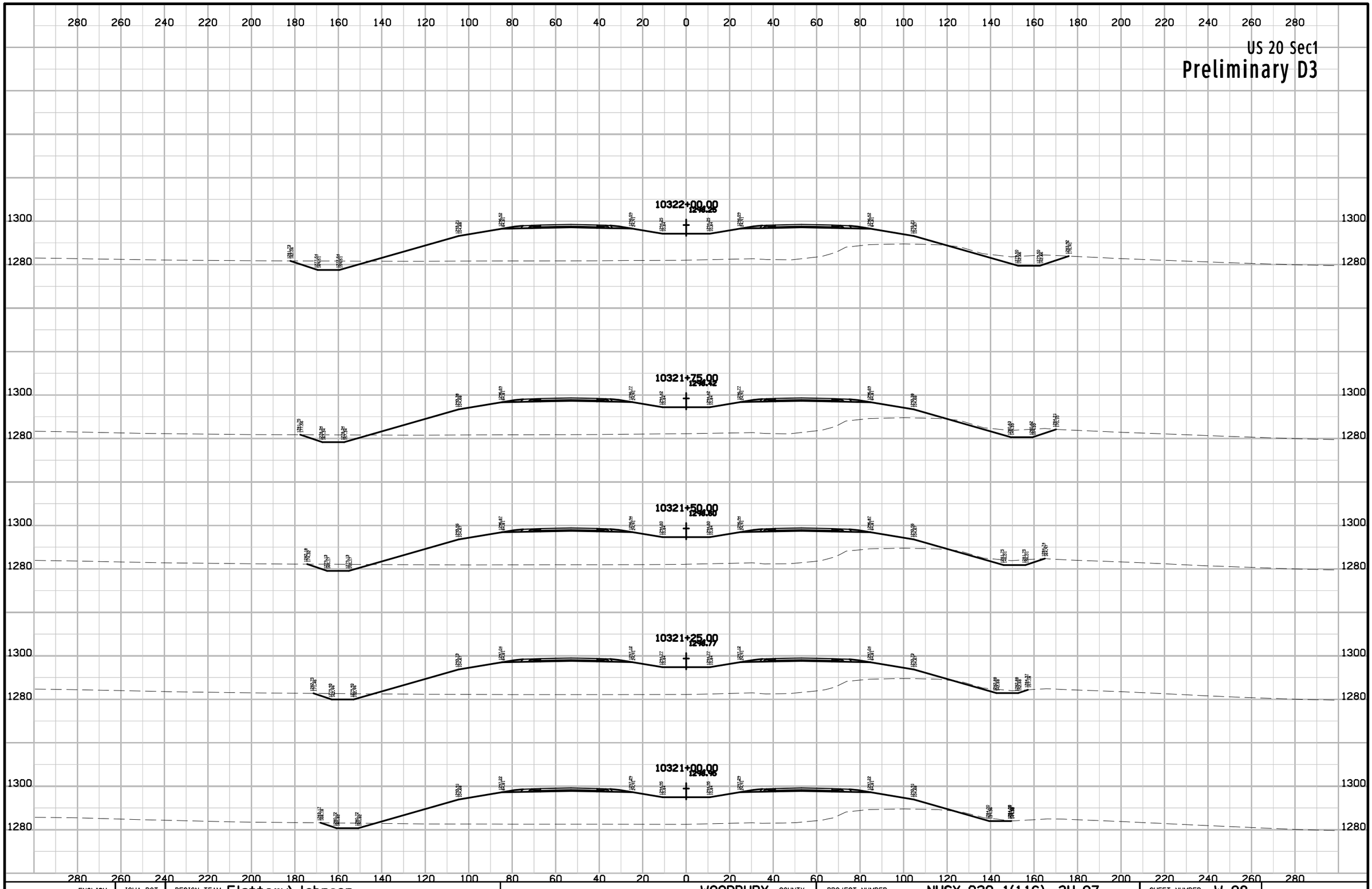


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.97

2:16:46 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER	W.98

2:16:47 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

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

1300
1280

10323+25.00
1247.37

10323+00.00
1247.35

10322+75.00
1247.72

10322+50.00
1247.90

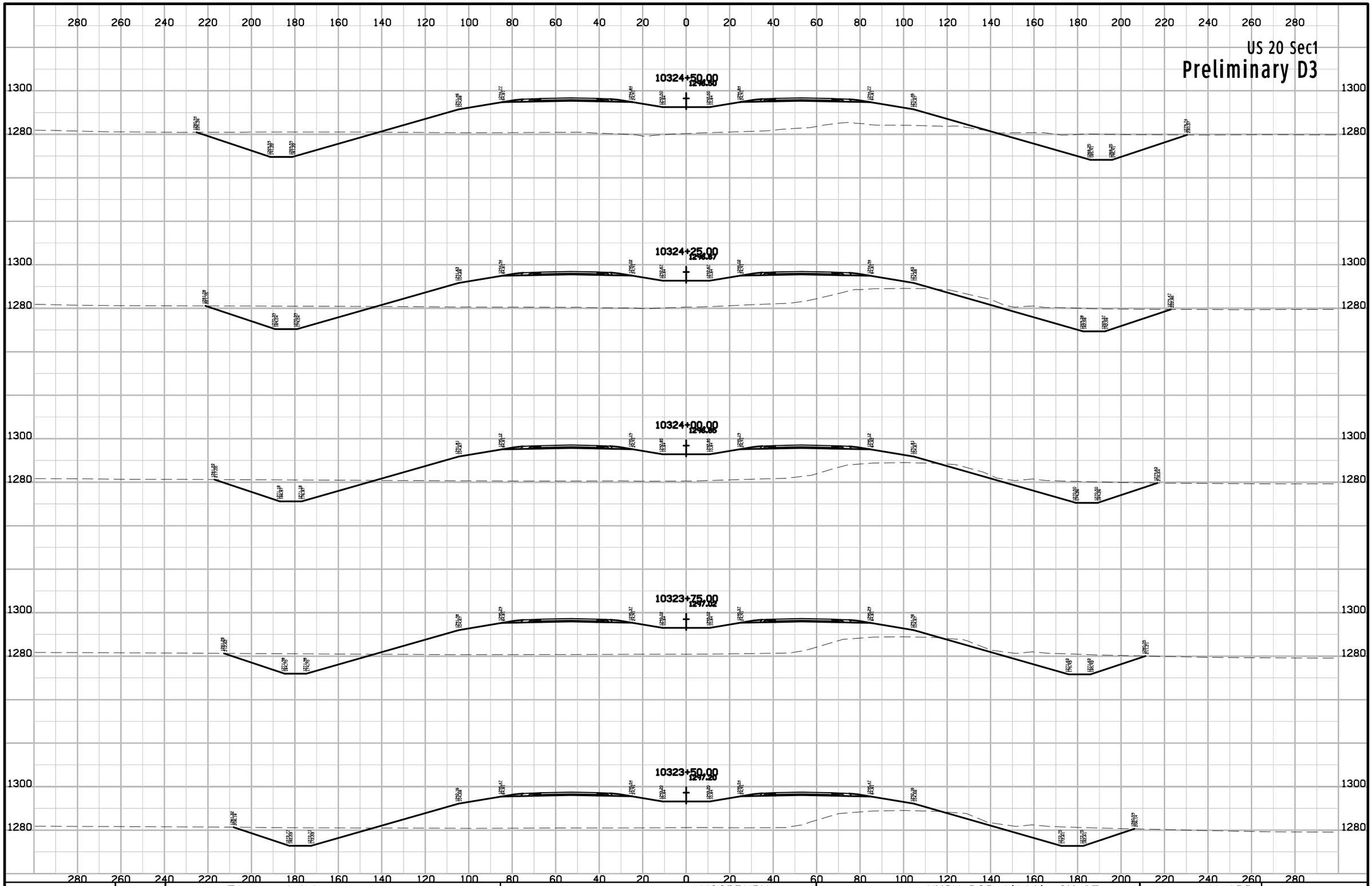
10322+25.00
1248.07

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.99

2:16:48 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

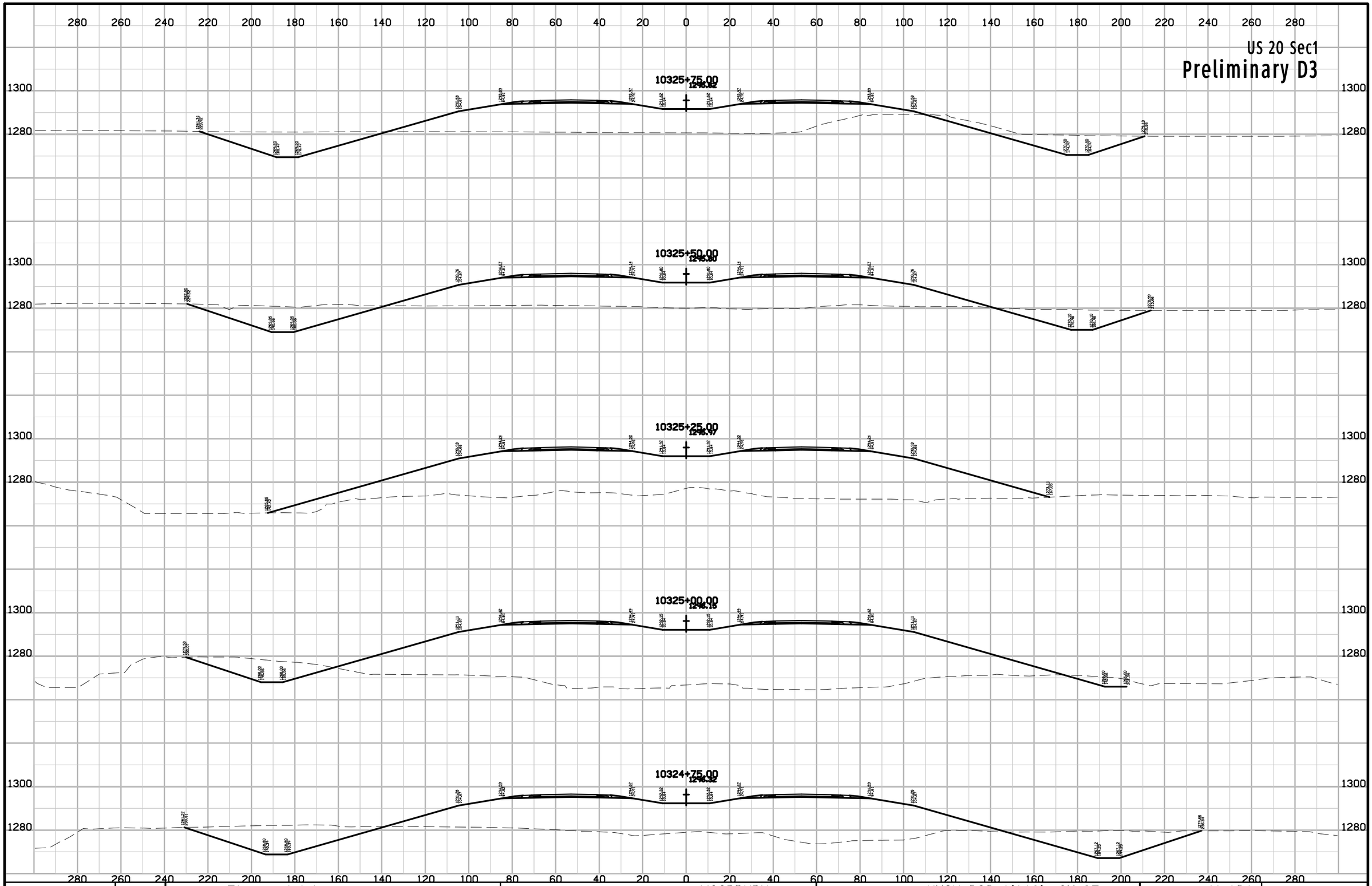


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.100

2:16:49 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W1.sht

US 20 Sec1

Preliminary D3

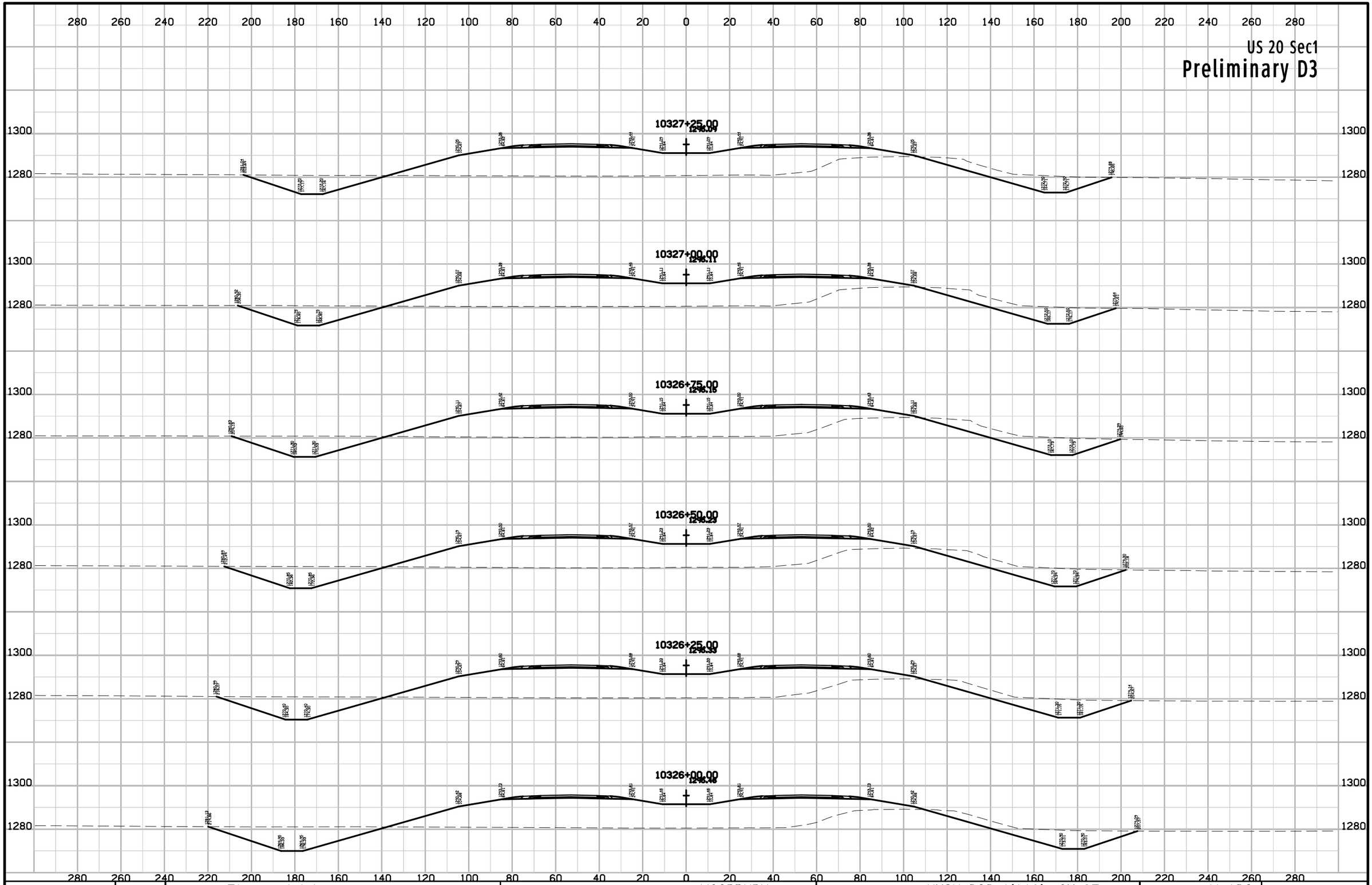


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.101	

2:17:37 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

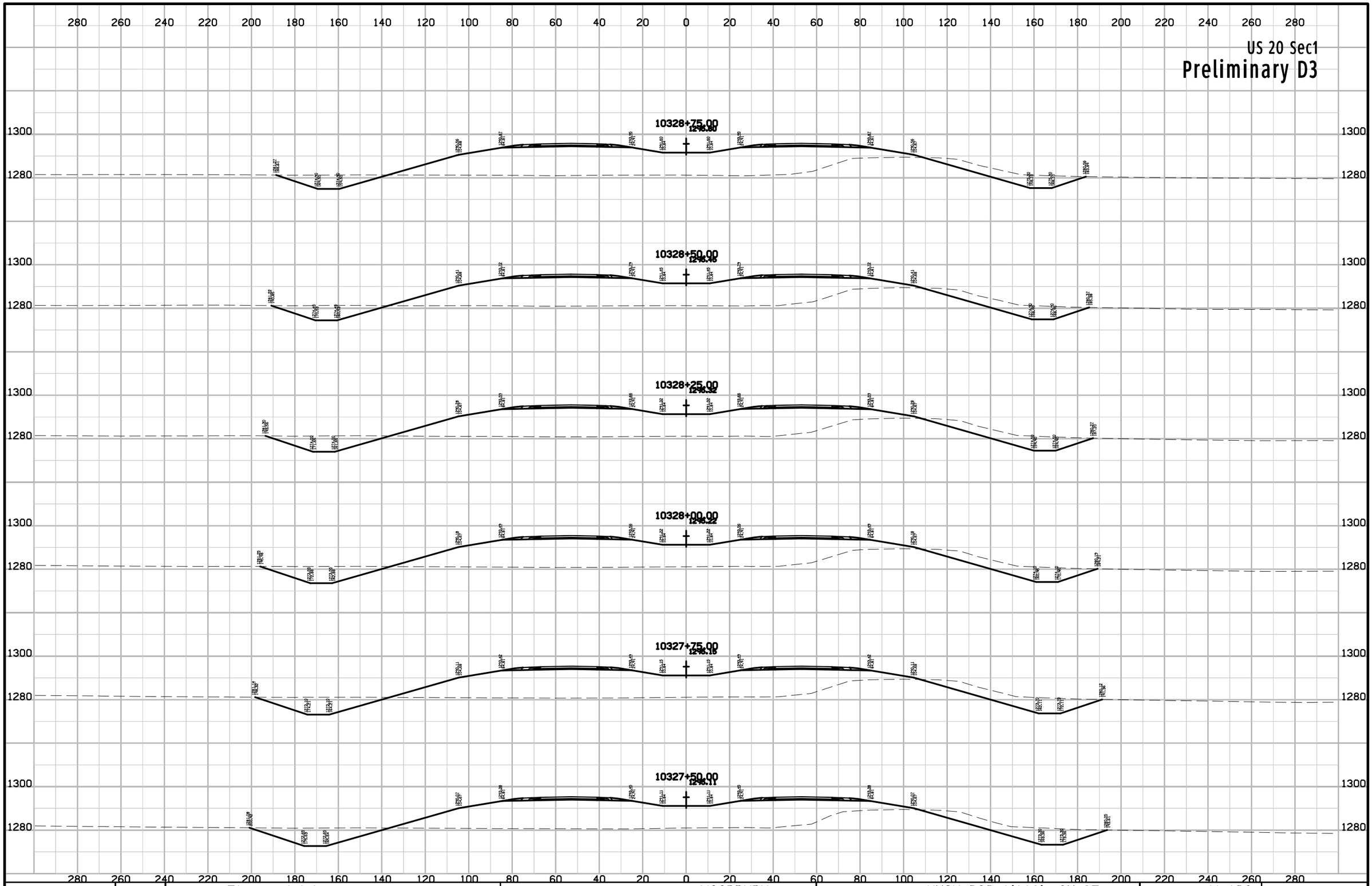


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.102

2:17:38 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

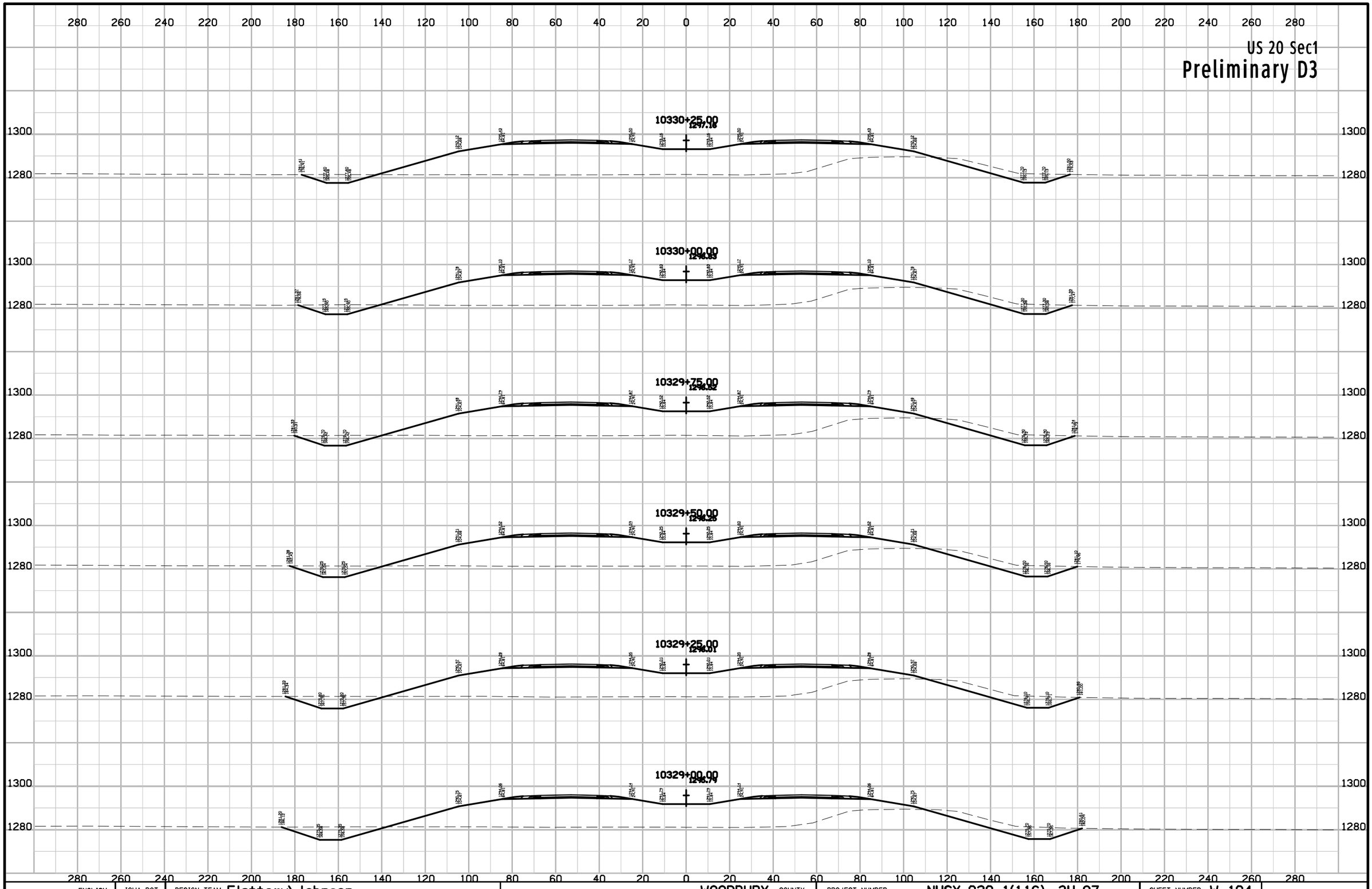


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.103

2:17:38 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

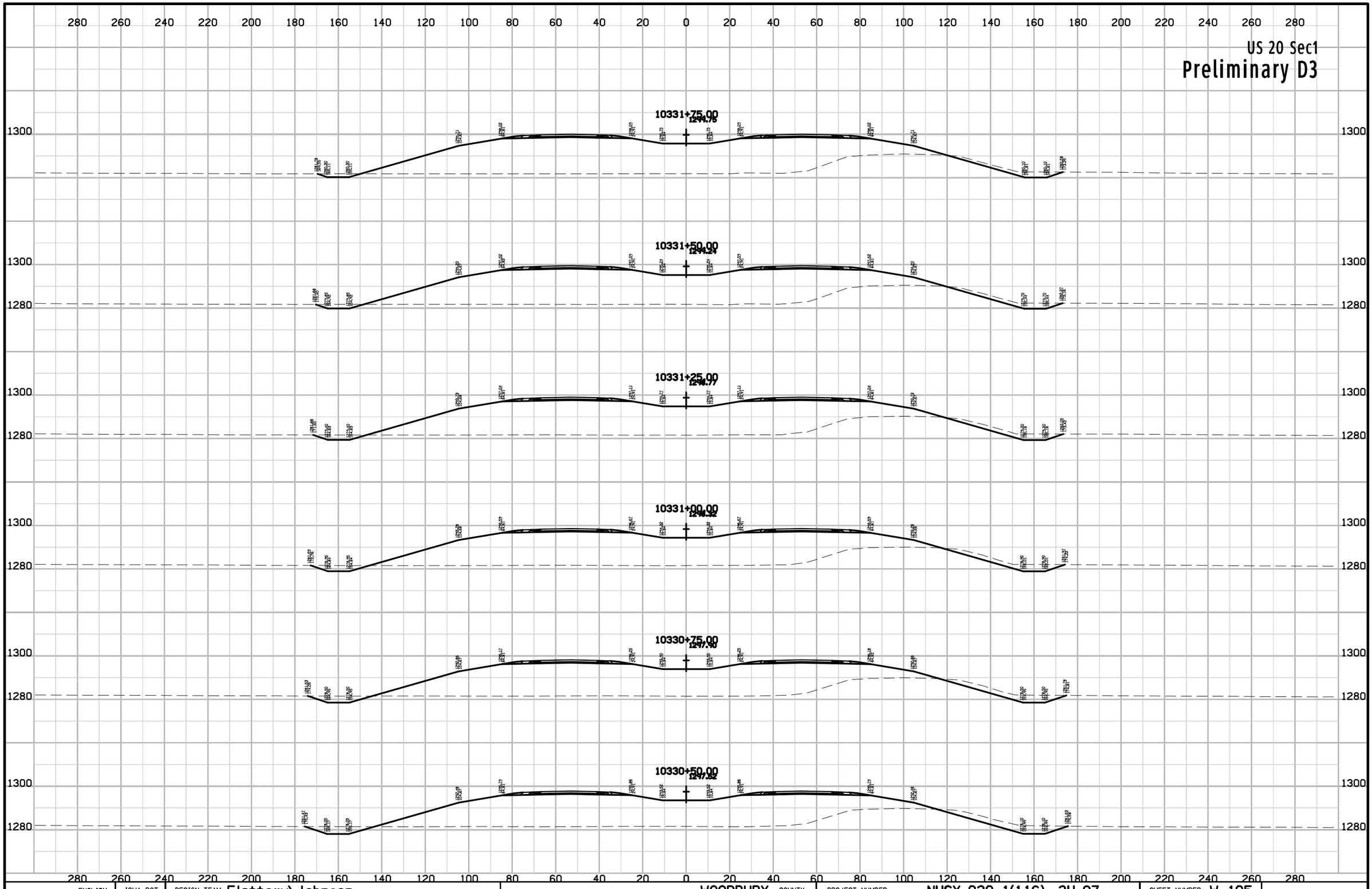


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.104	

2:17:39 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

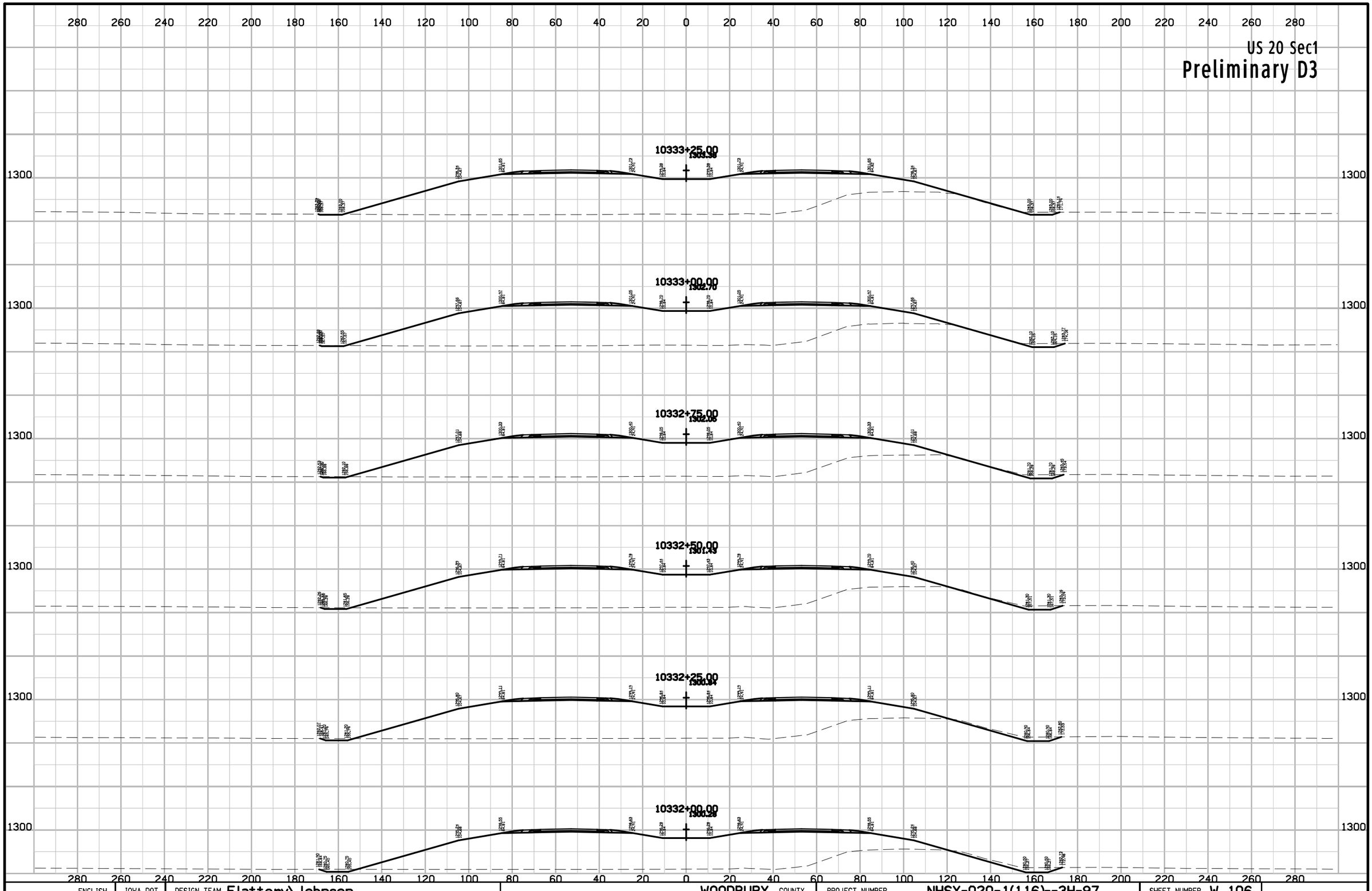


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.105

2:17:40 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

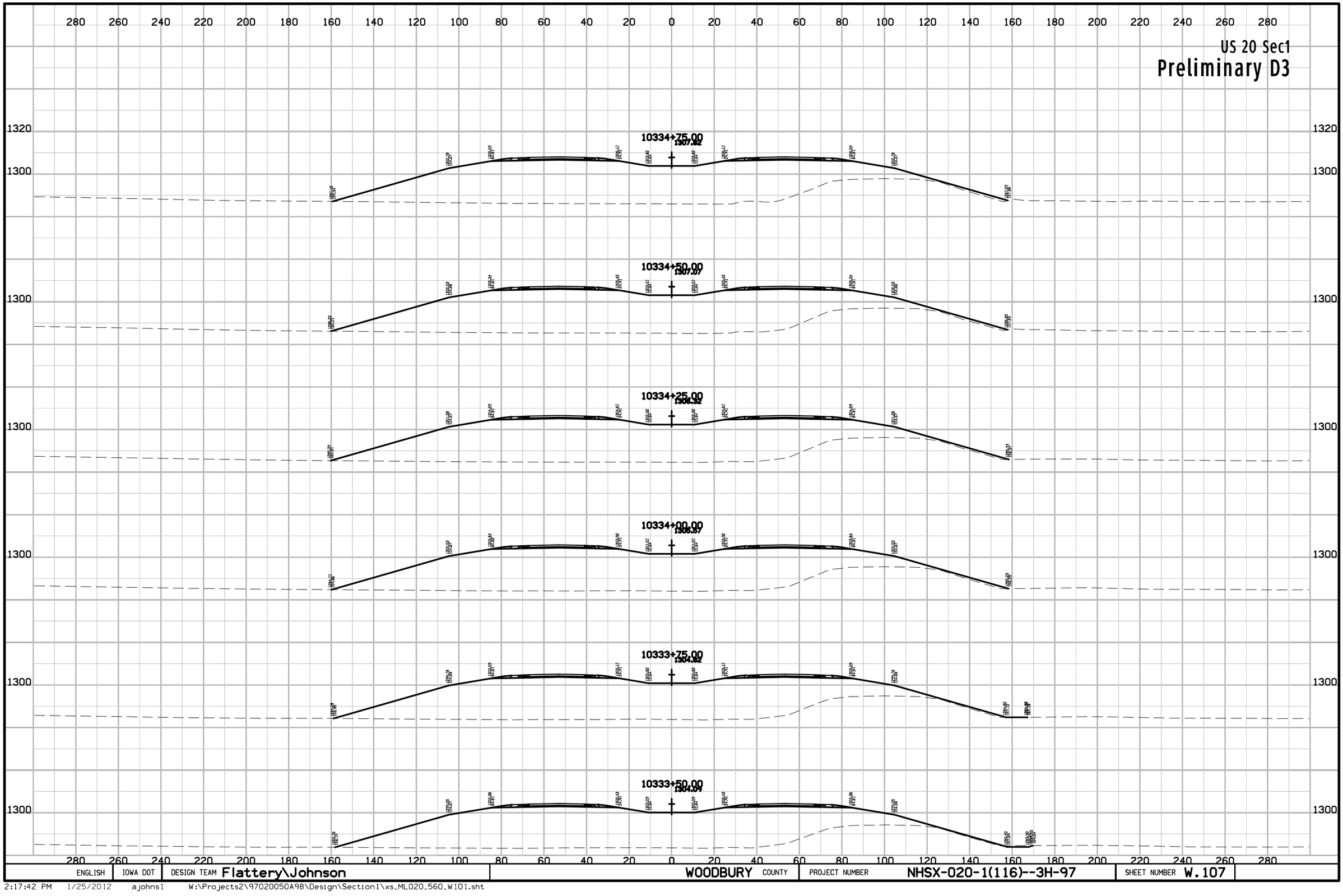


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.106

2:17:41 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

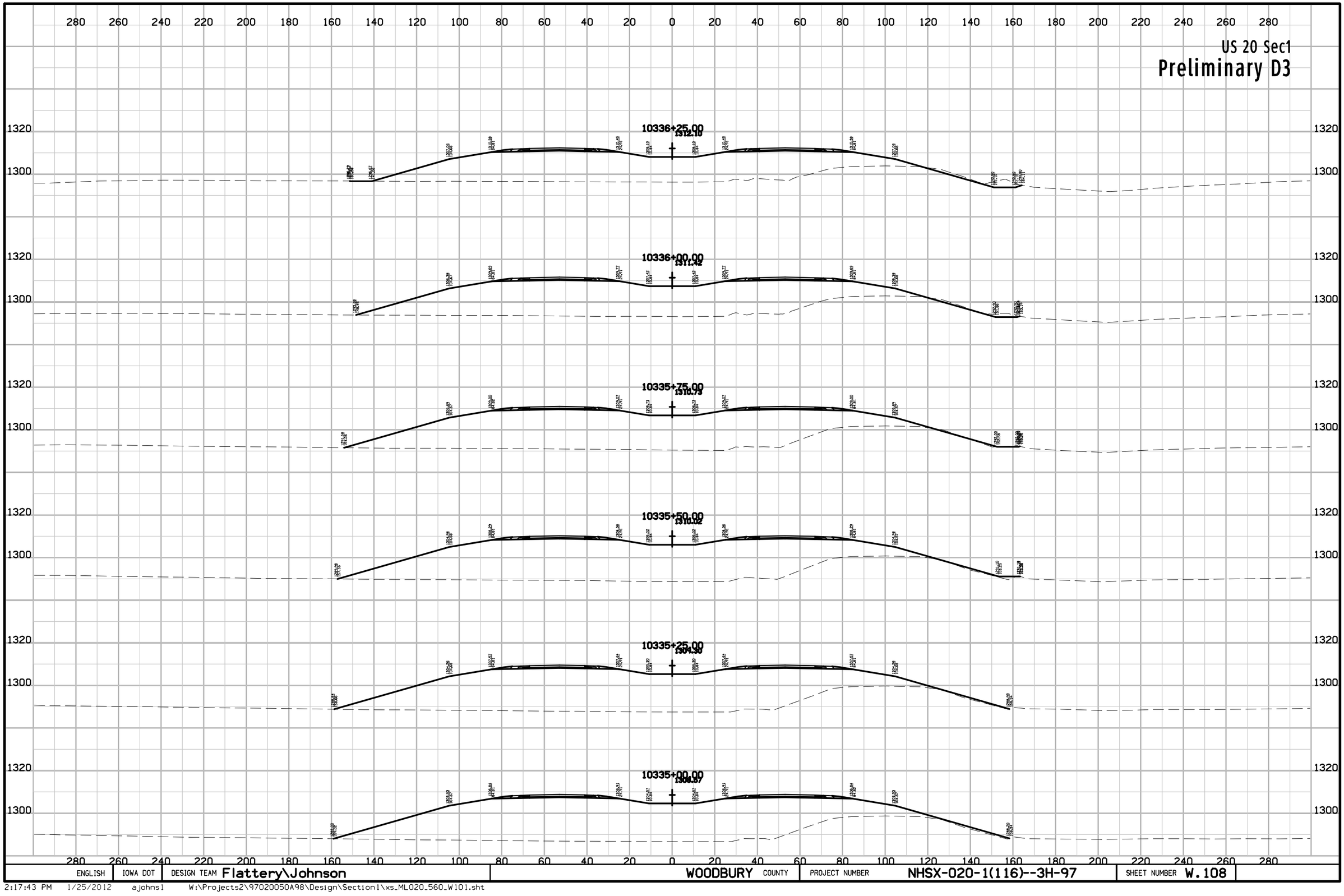


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.107

2:17:42 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

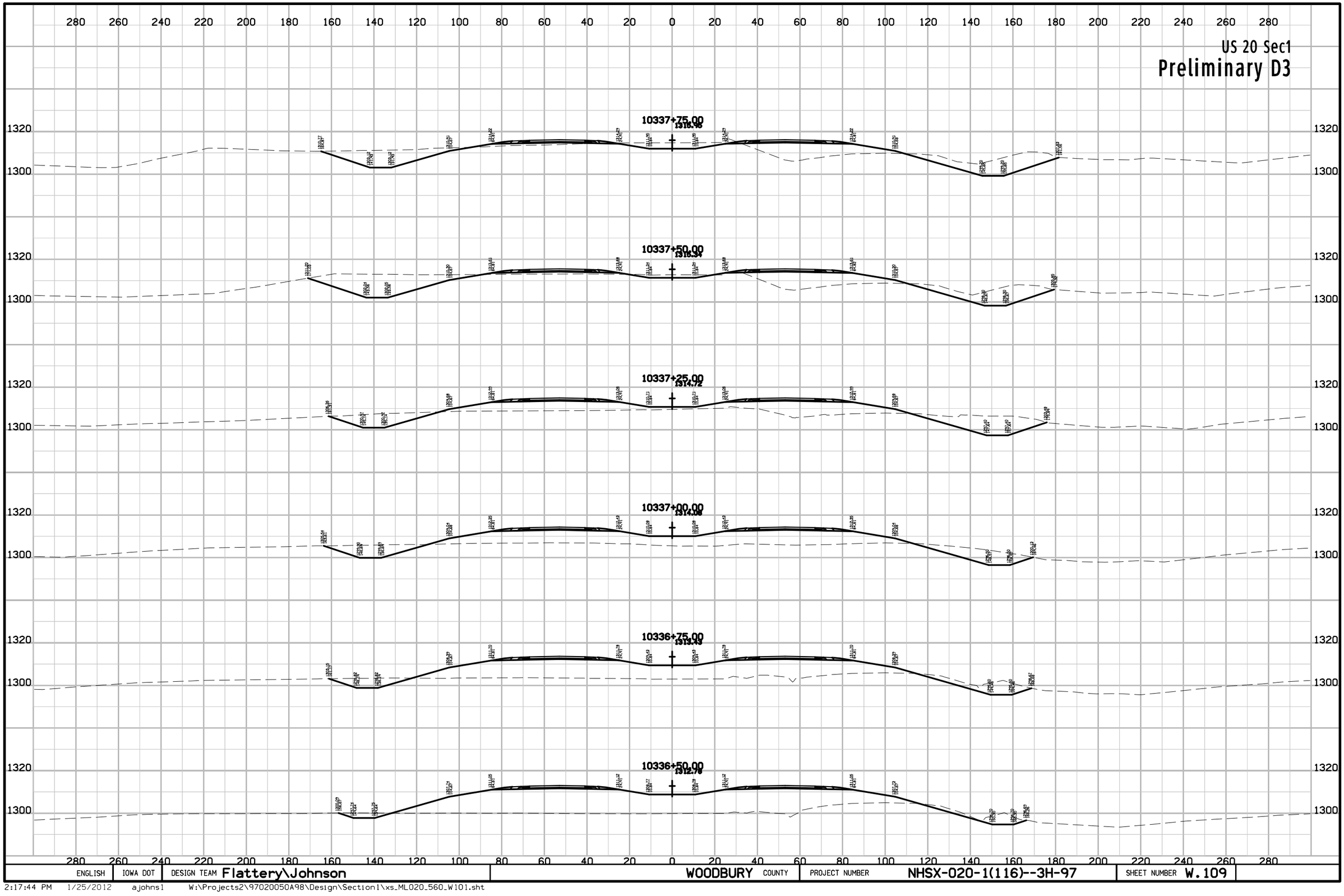


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.108

2:17:43 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

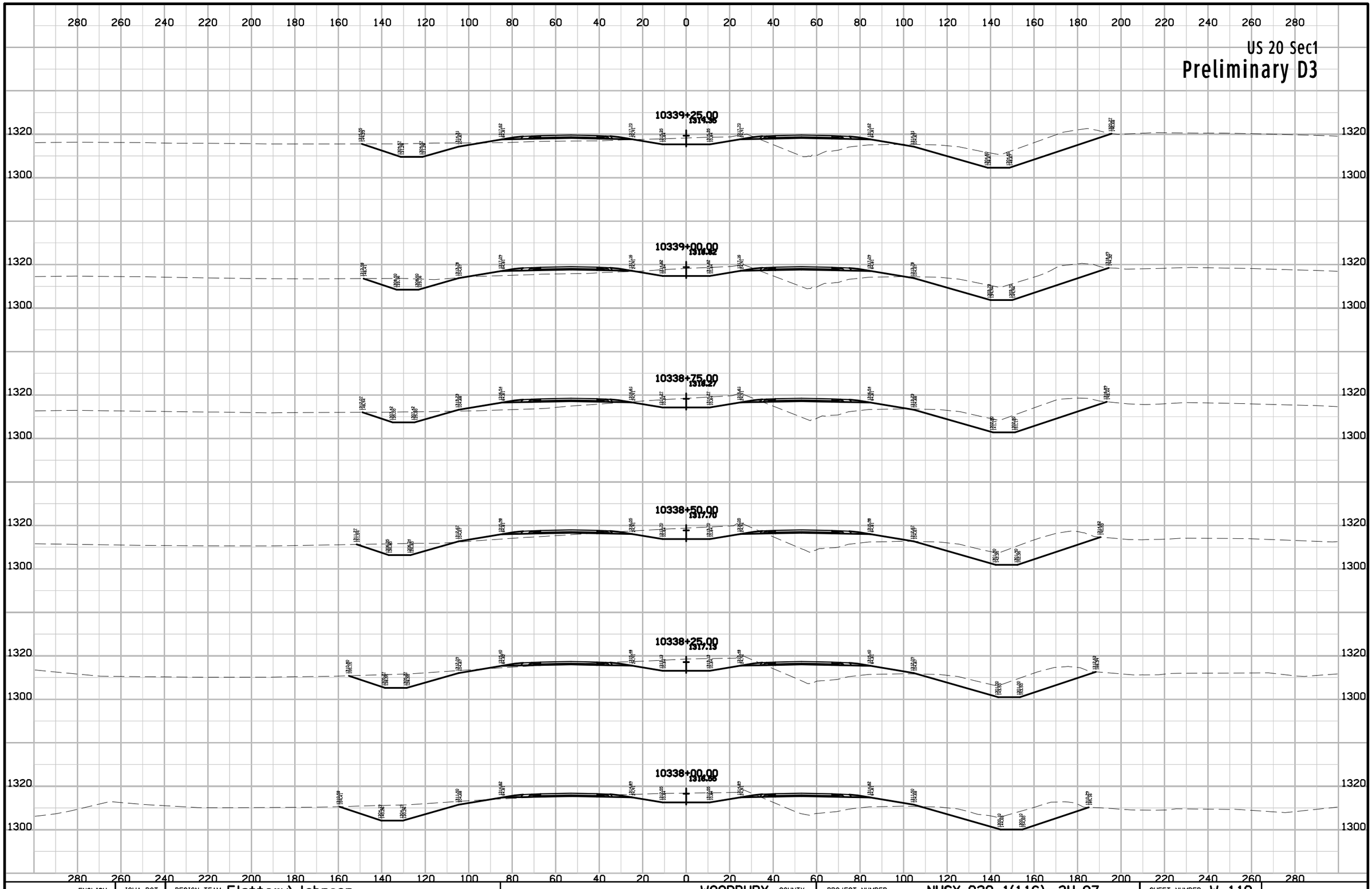


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.109

2:17:44 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

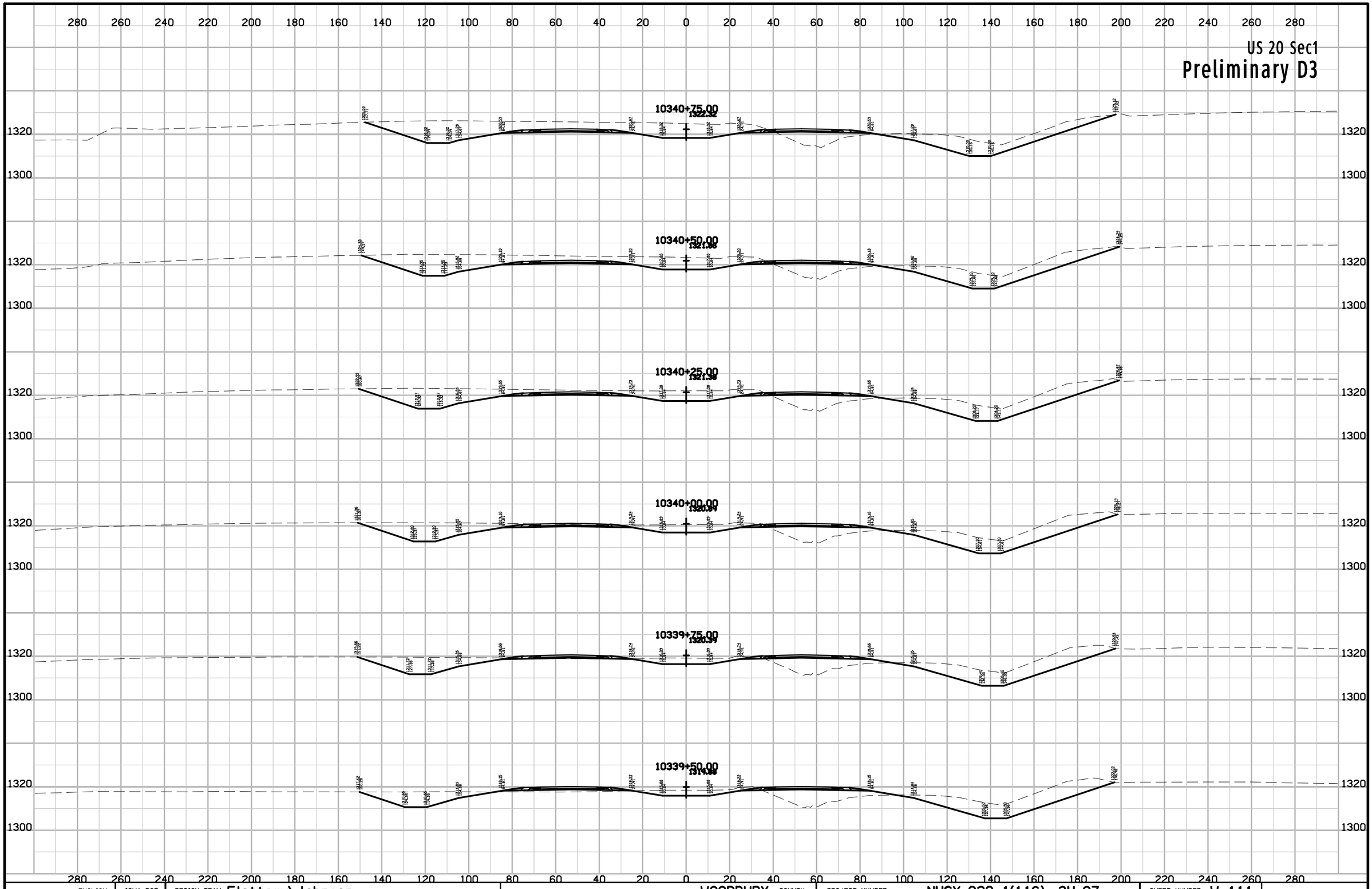


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.110

2:17:44 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

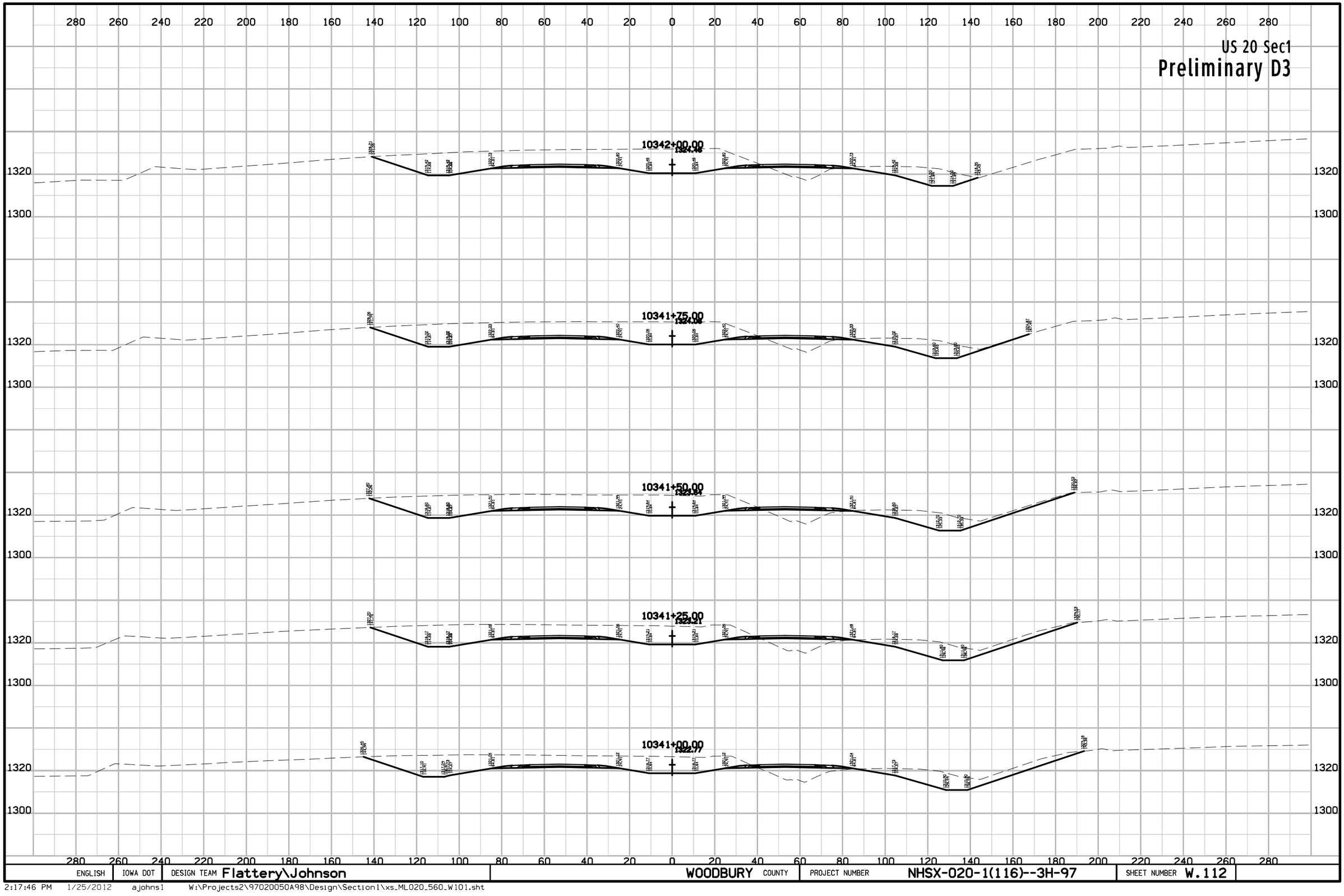


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.111

2:17:45 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

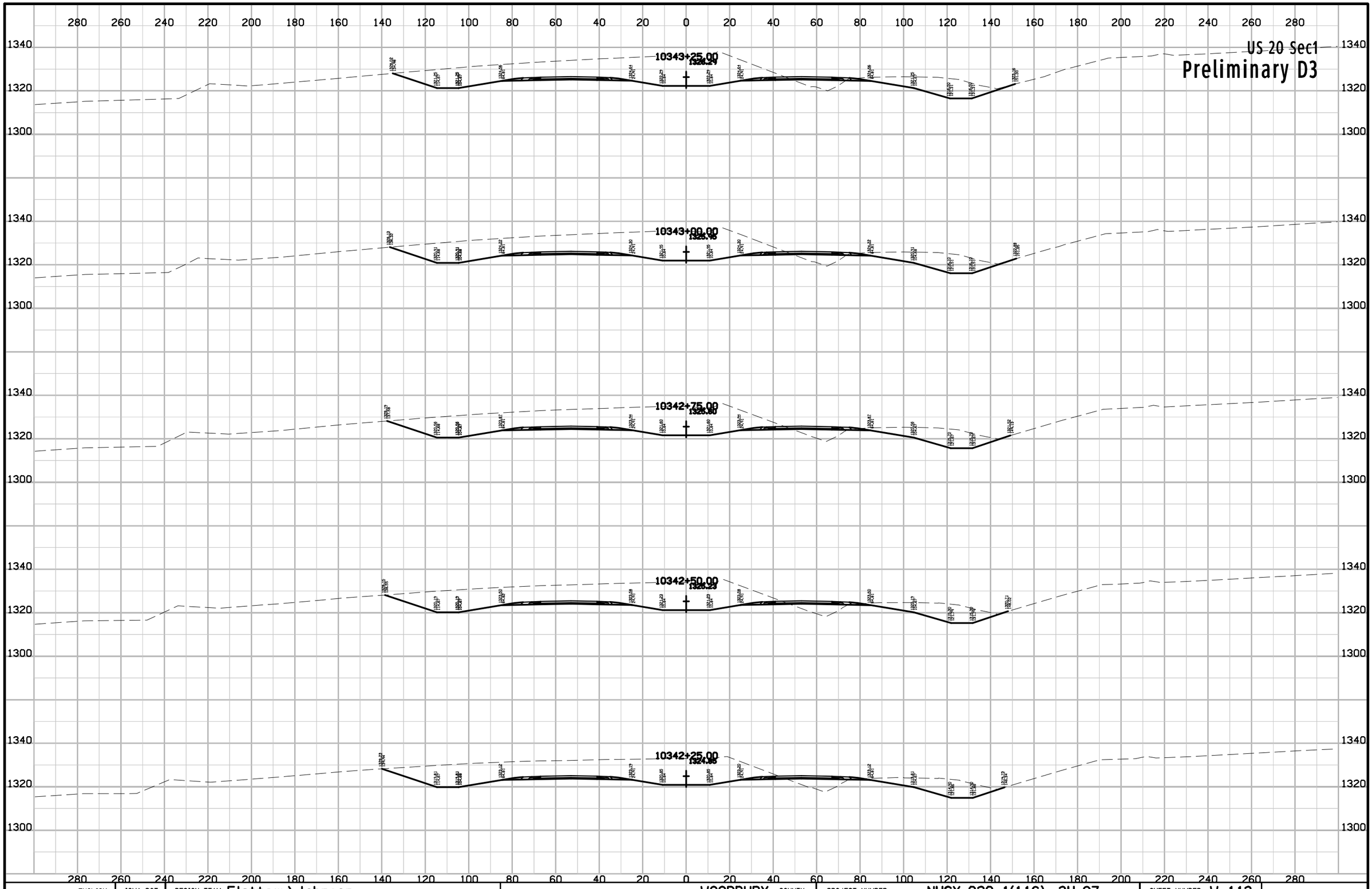


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.112

2:17:46 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

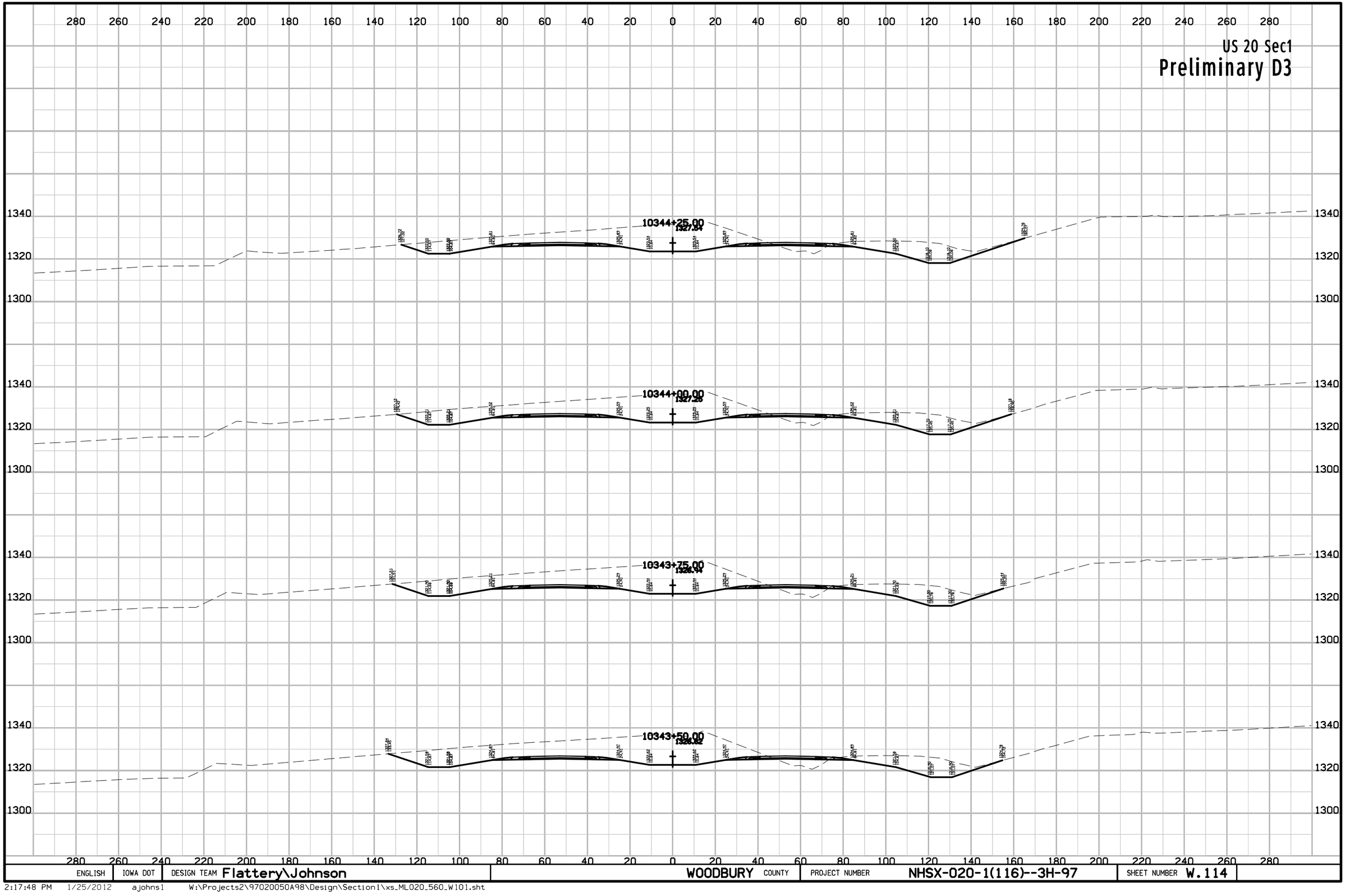


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.113

2:17:47 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

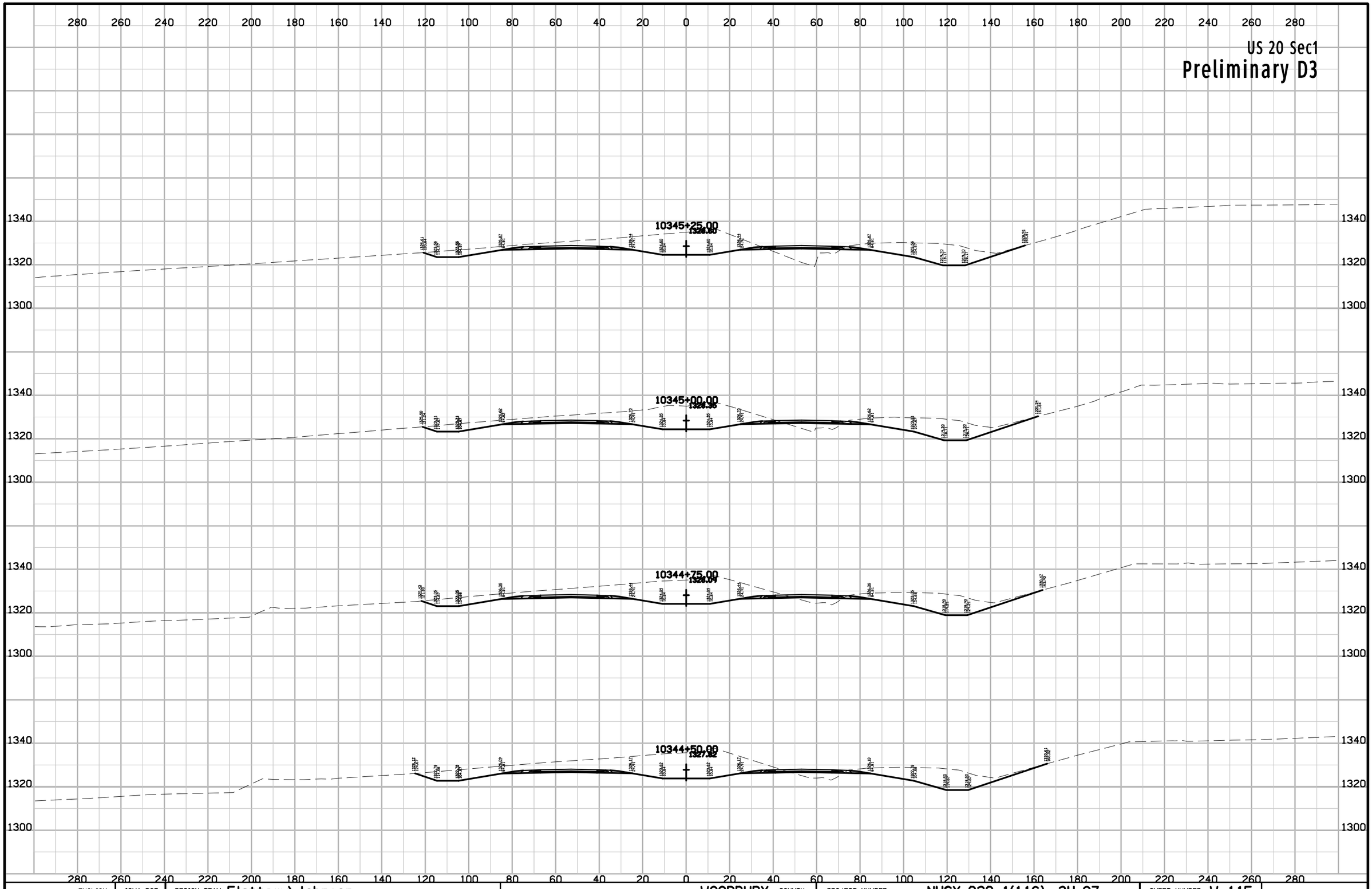


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.114

2:17:48 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

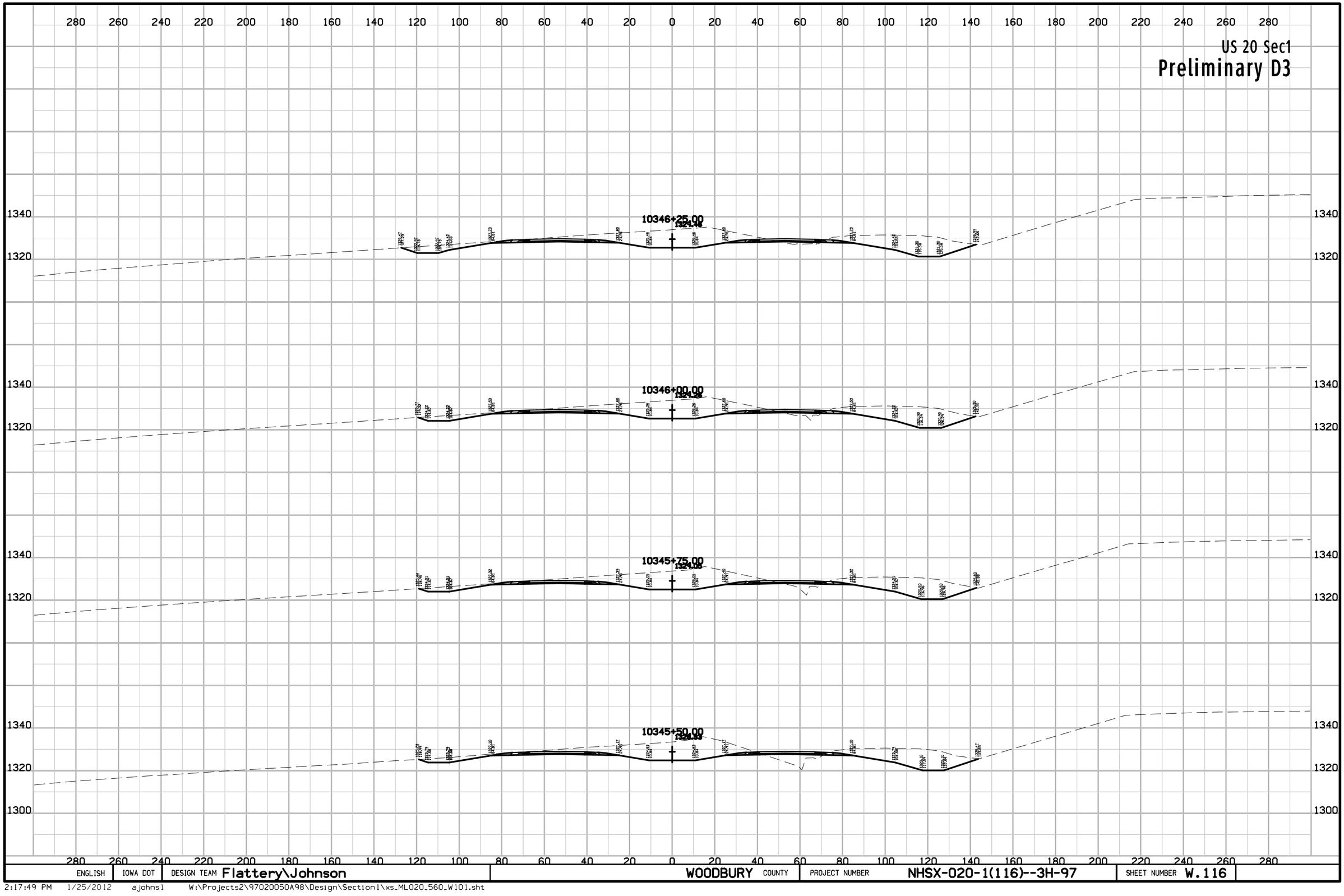


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.115

2:17:49 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

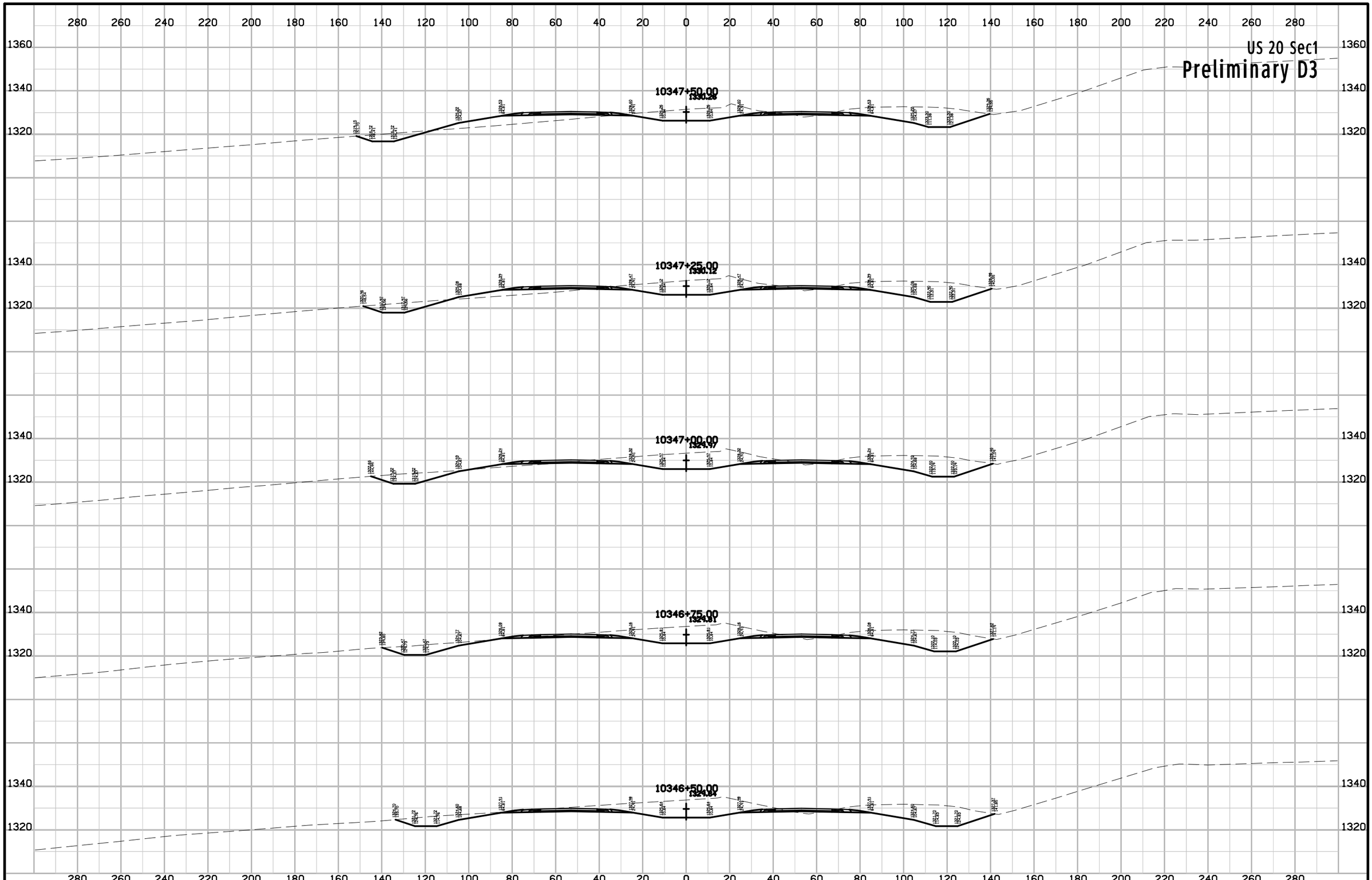


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.116

2:17:49 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

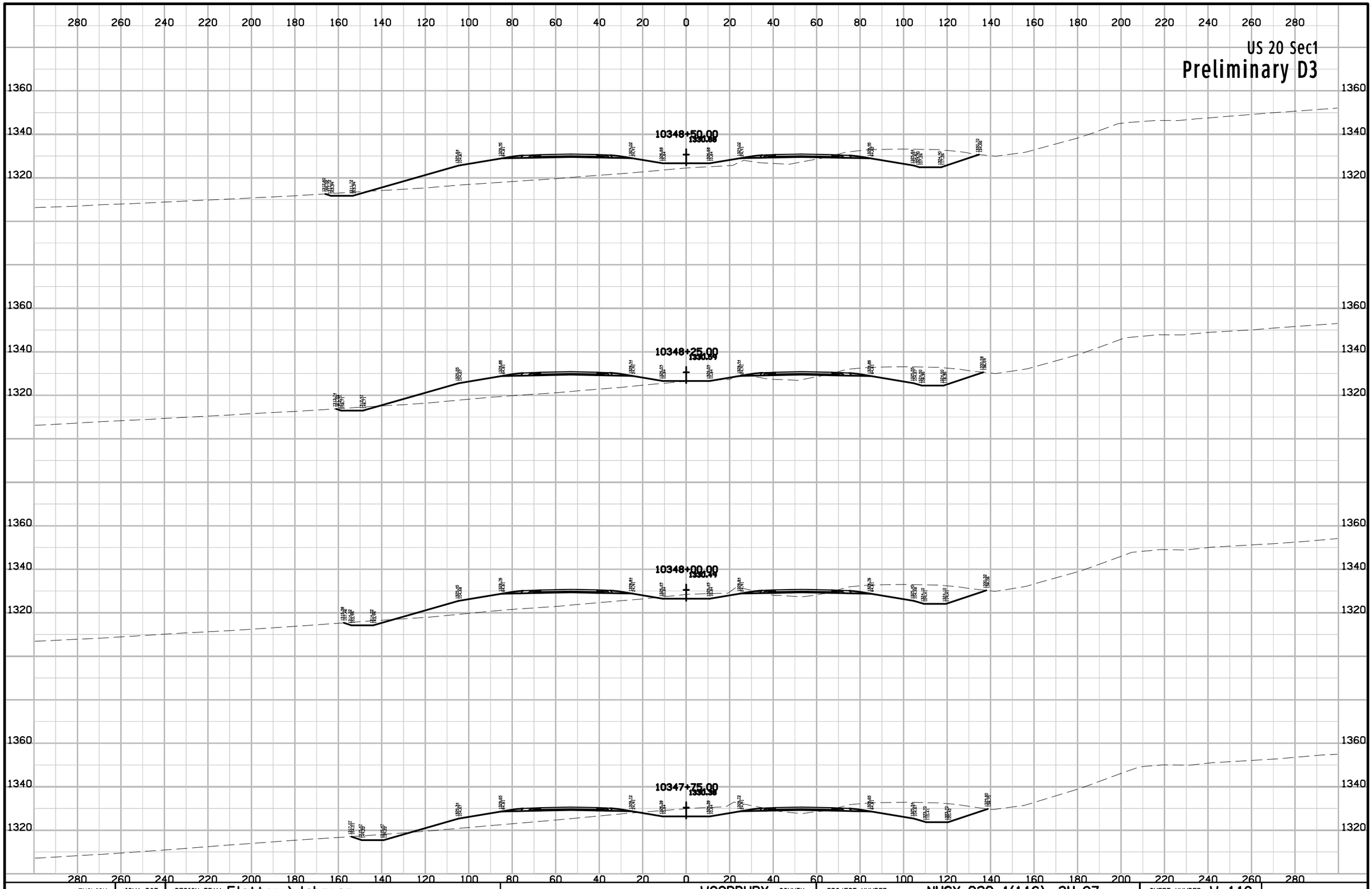


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.117

2:17:50 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

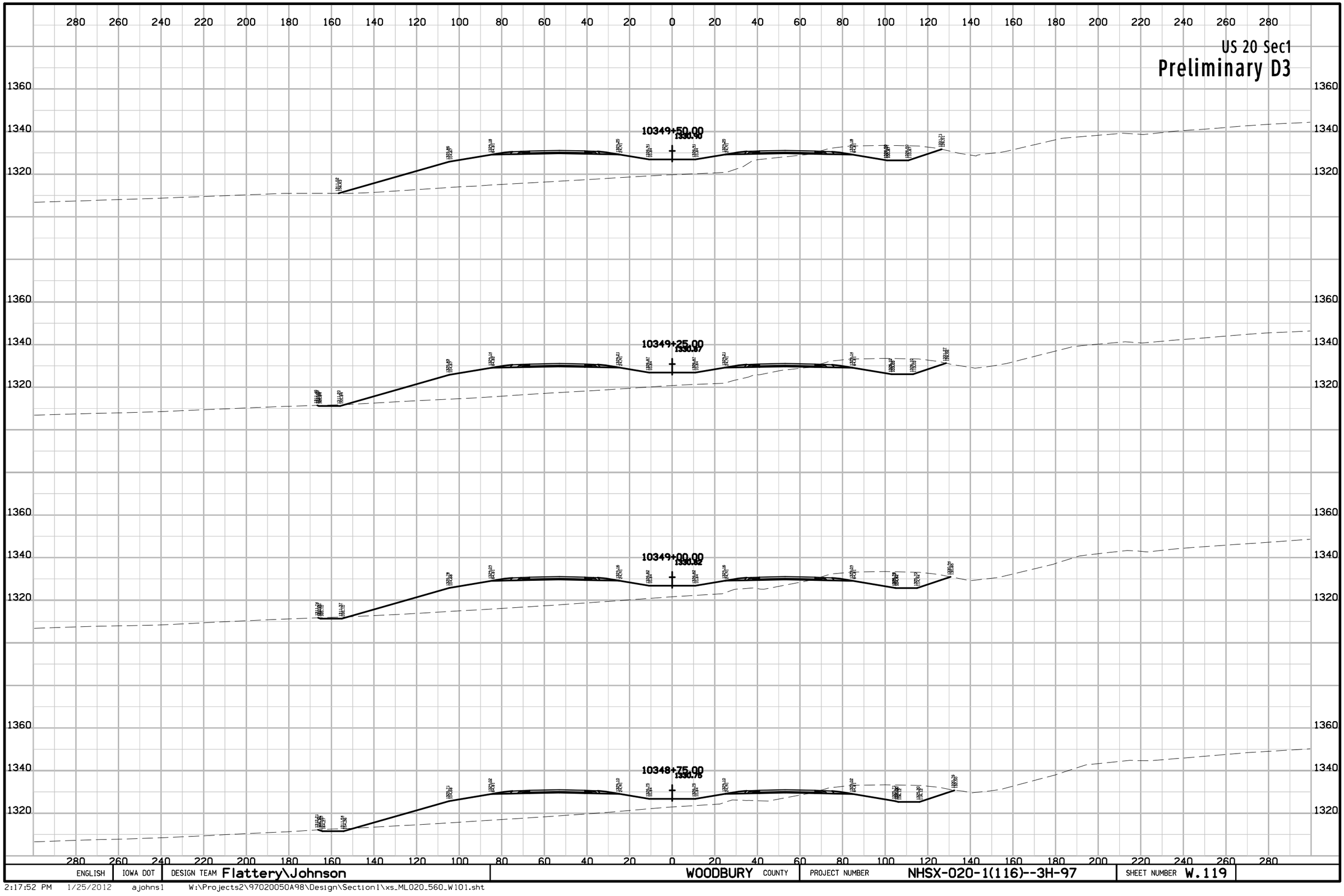


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.118

2:17:51 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

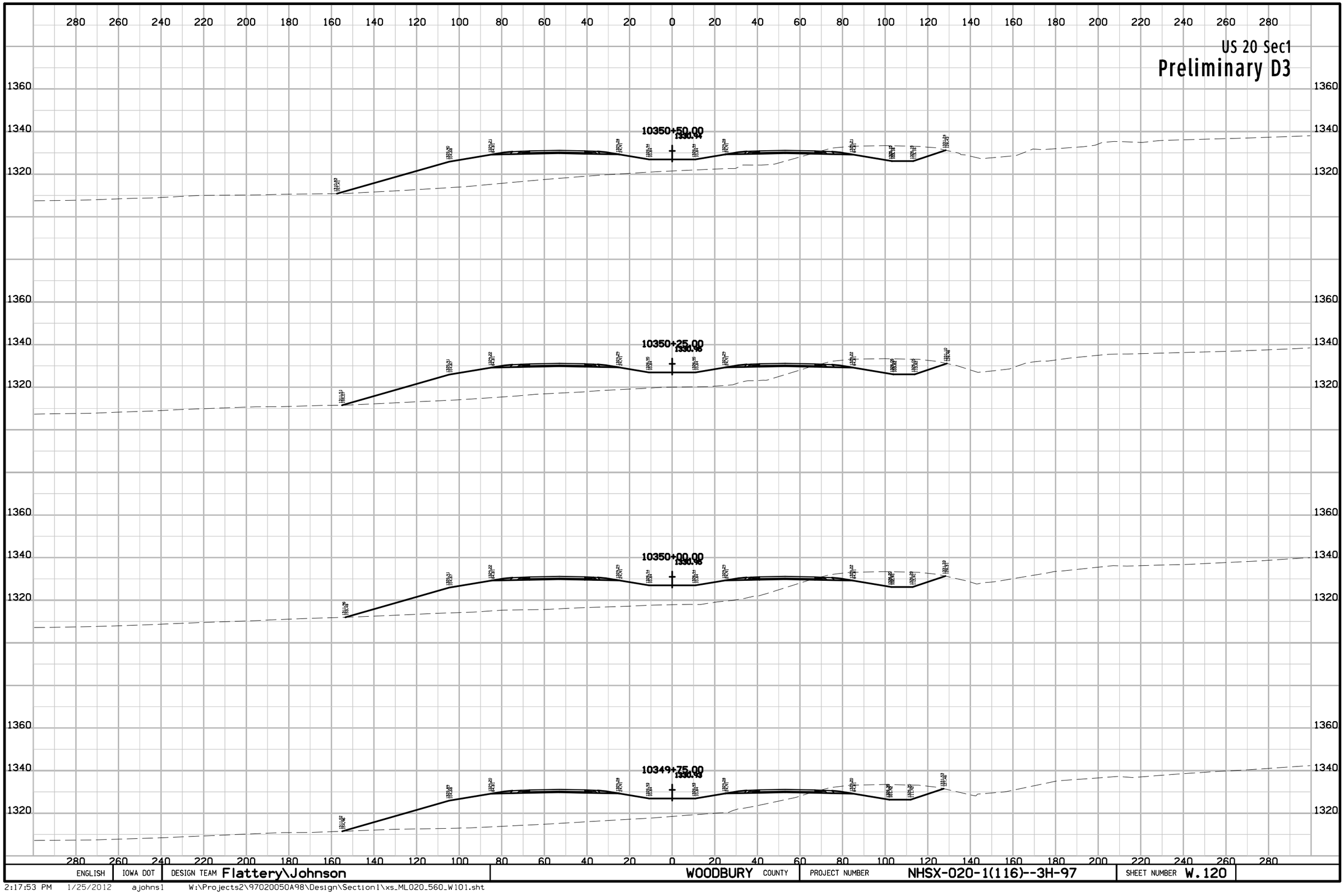


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.119

2:17:52 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

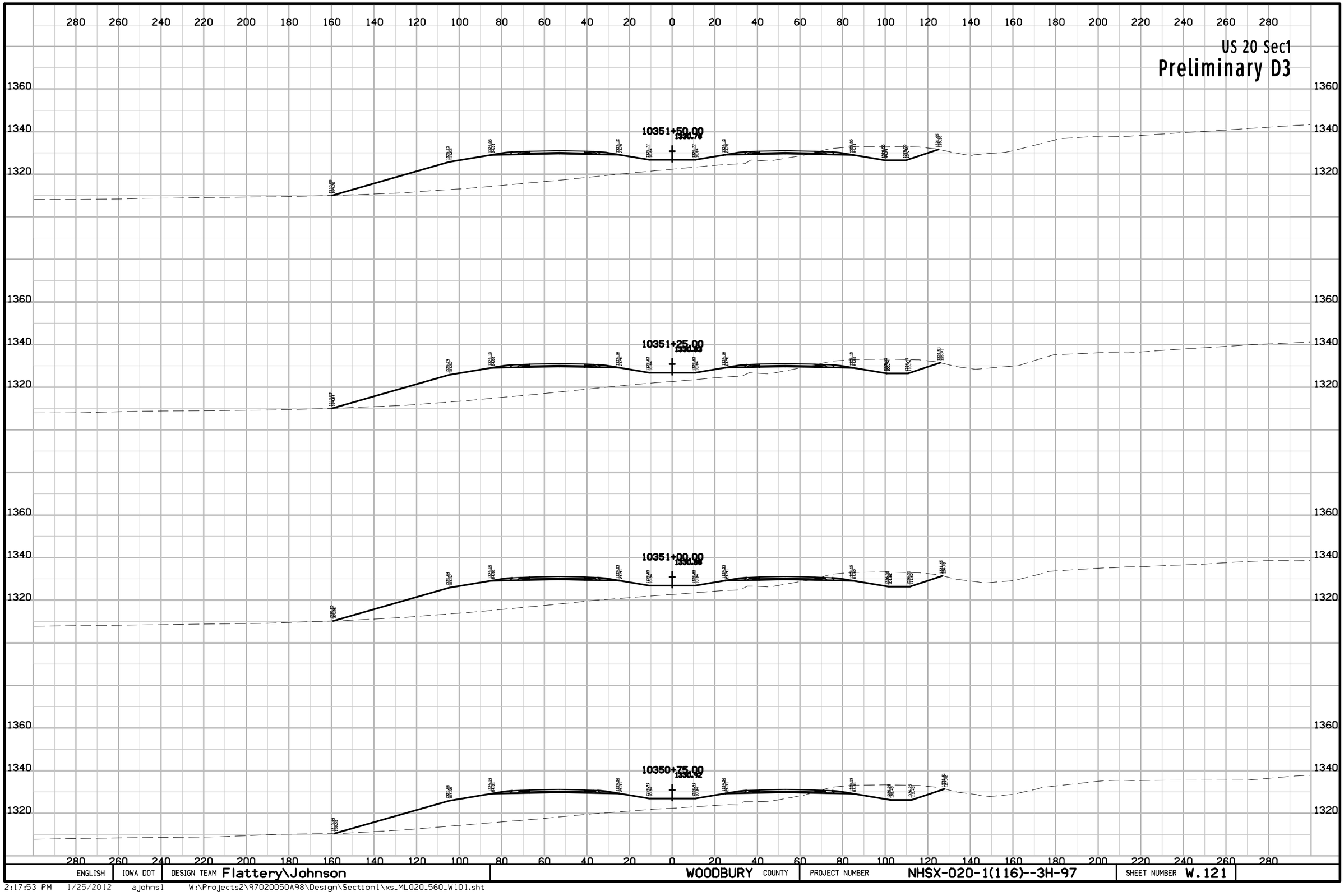


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.120

2:17:53 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

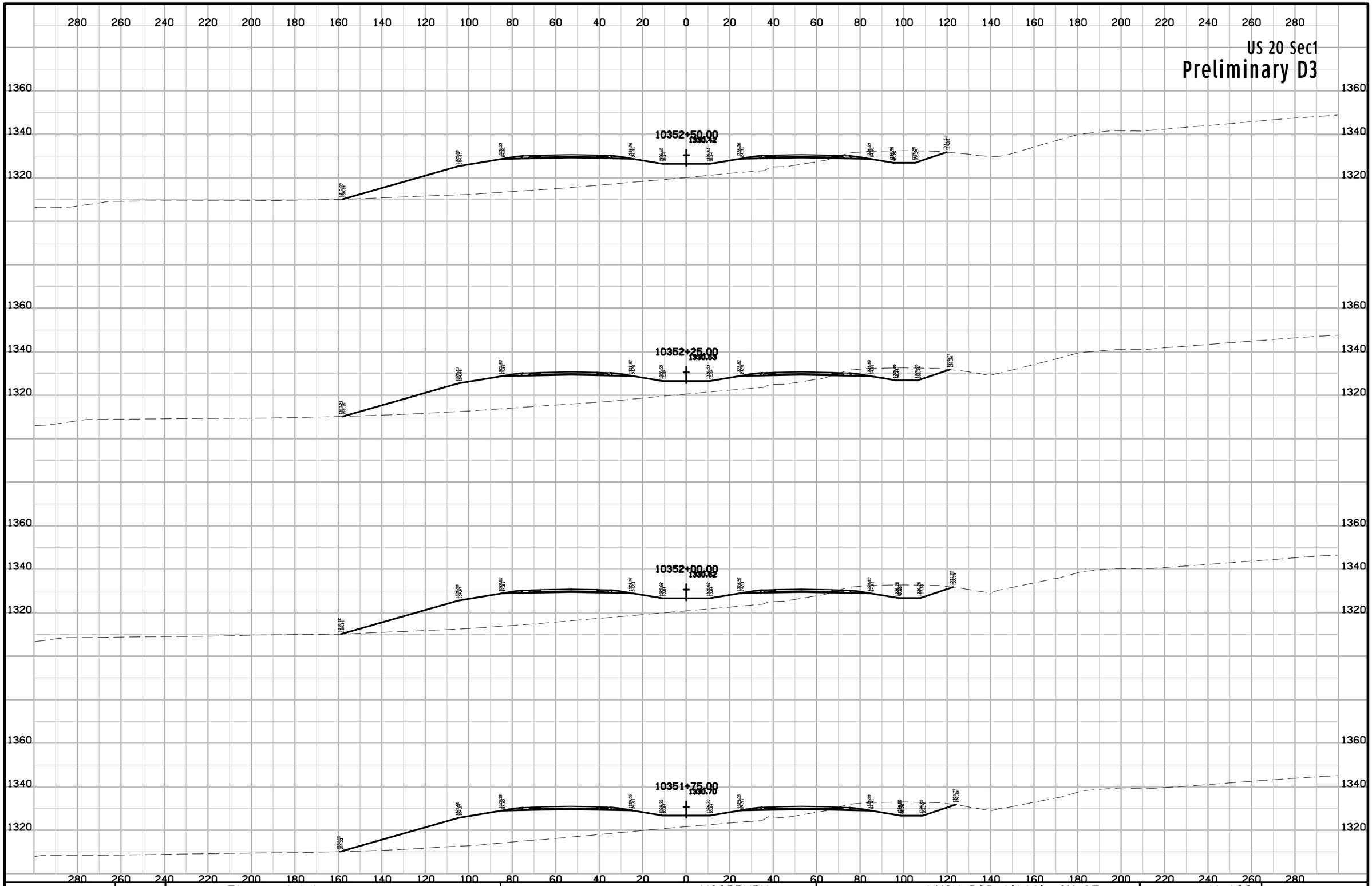


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.121

2:17:53 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

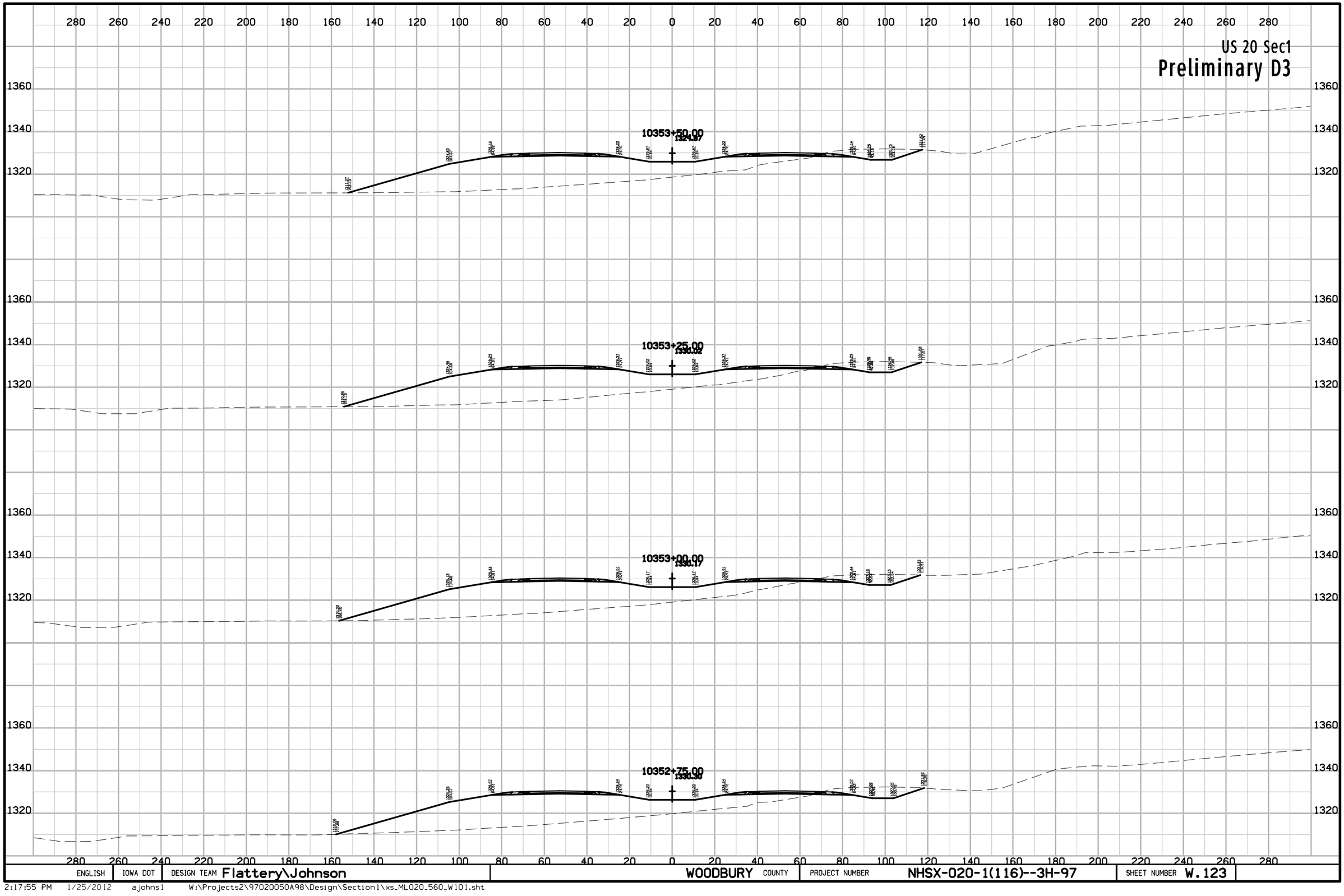


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.122

2:17:54 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

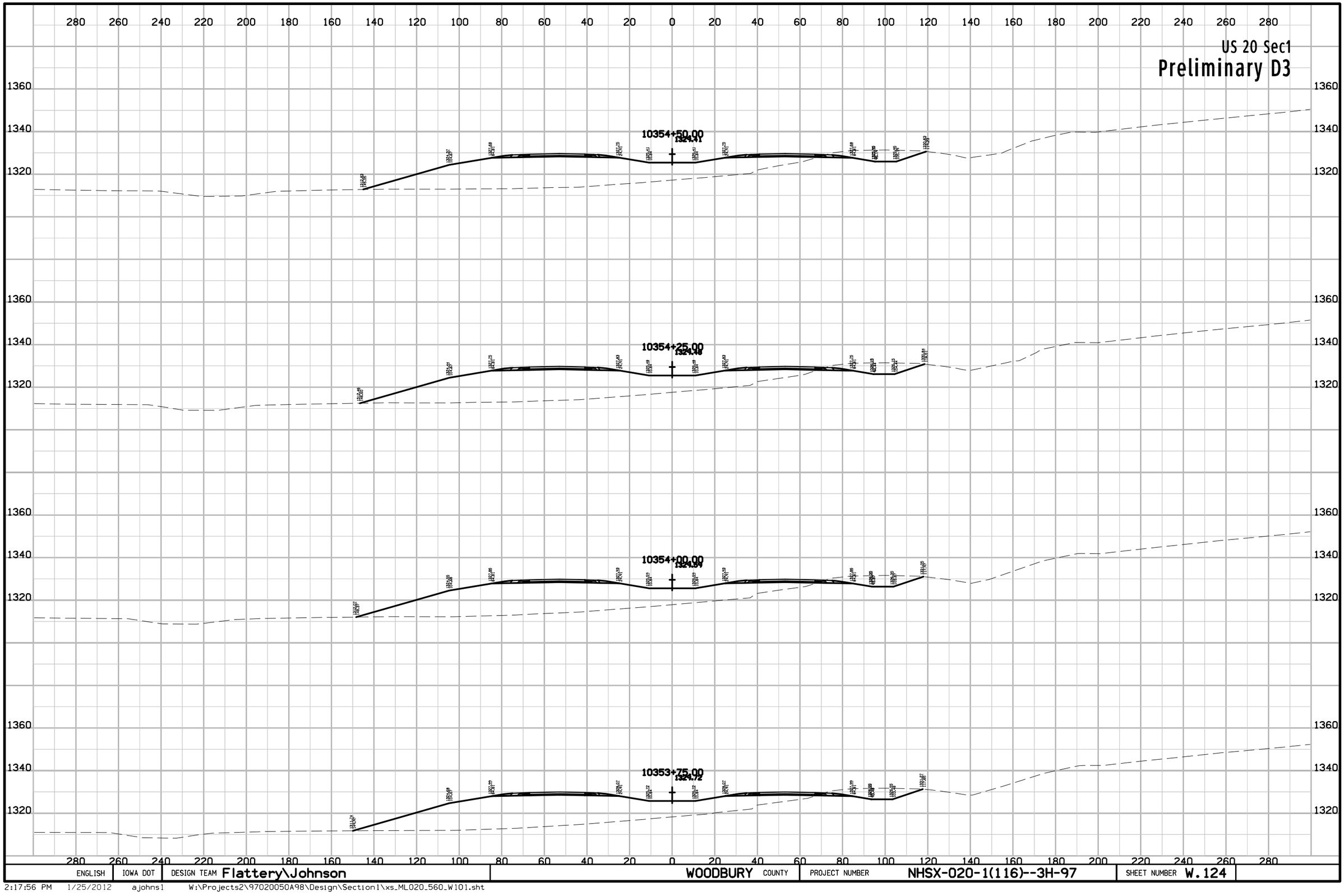


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.123

2:17:55 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

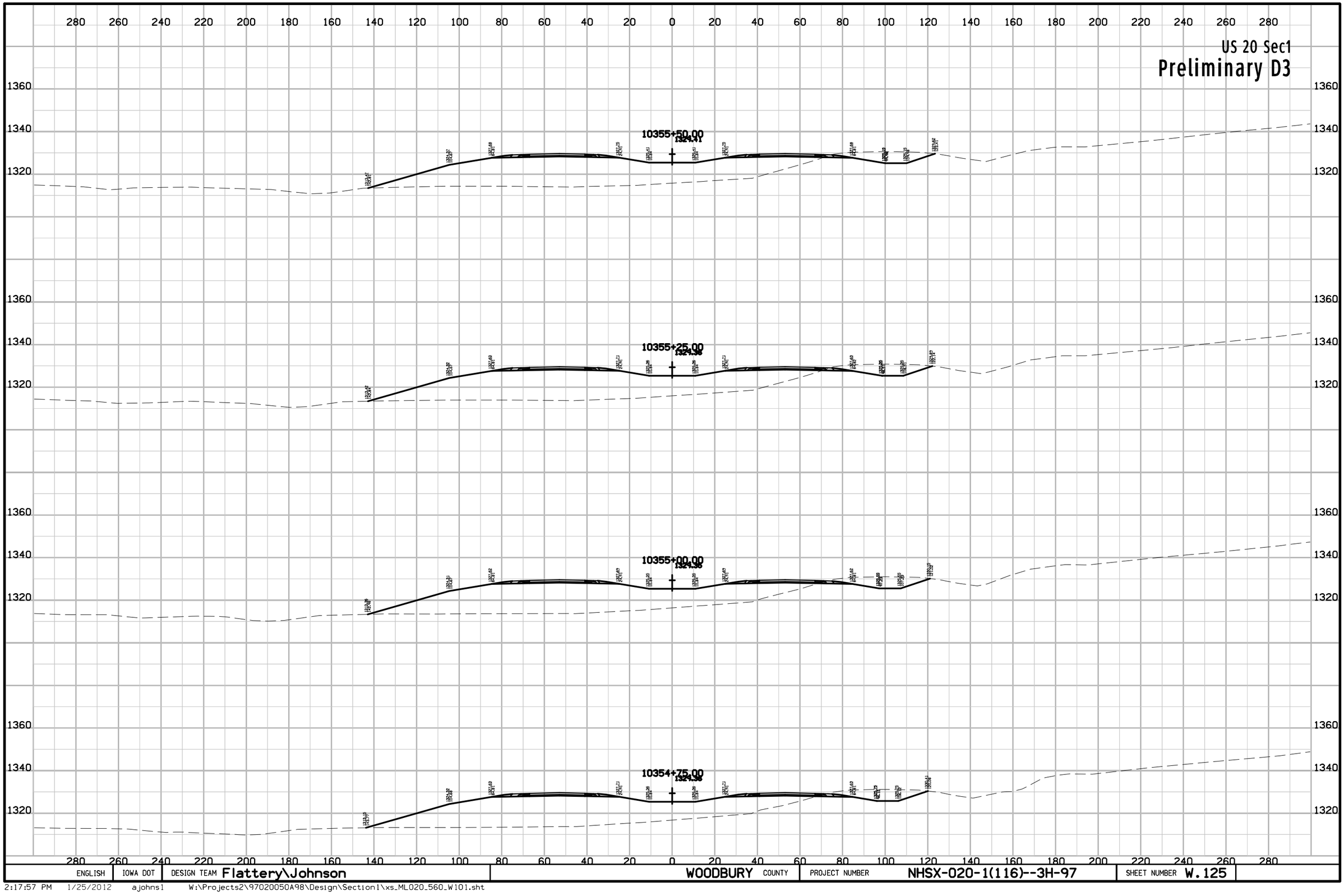


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.124

2:17:56 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

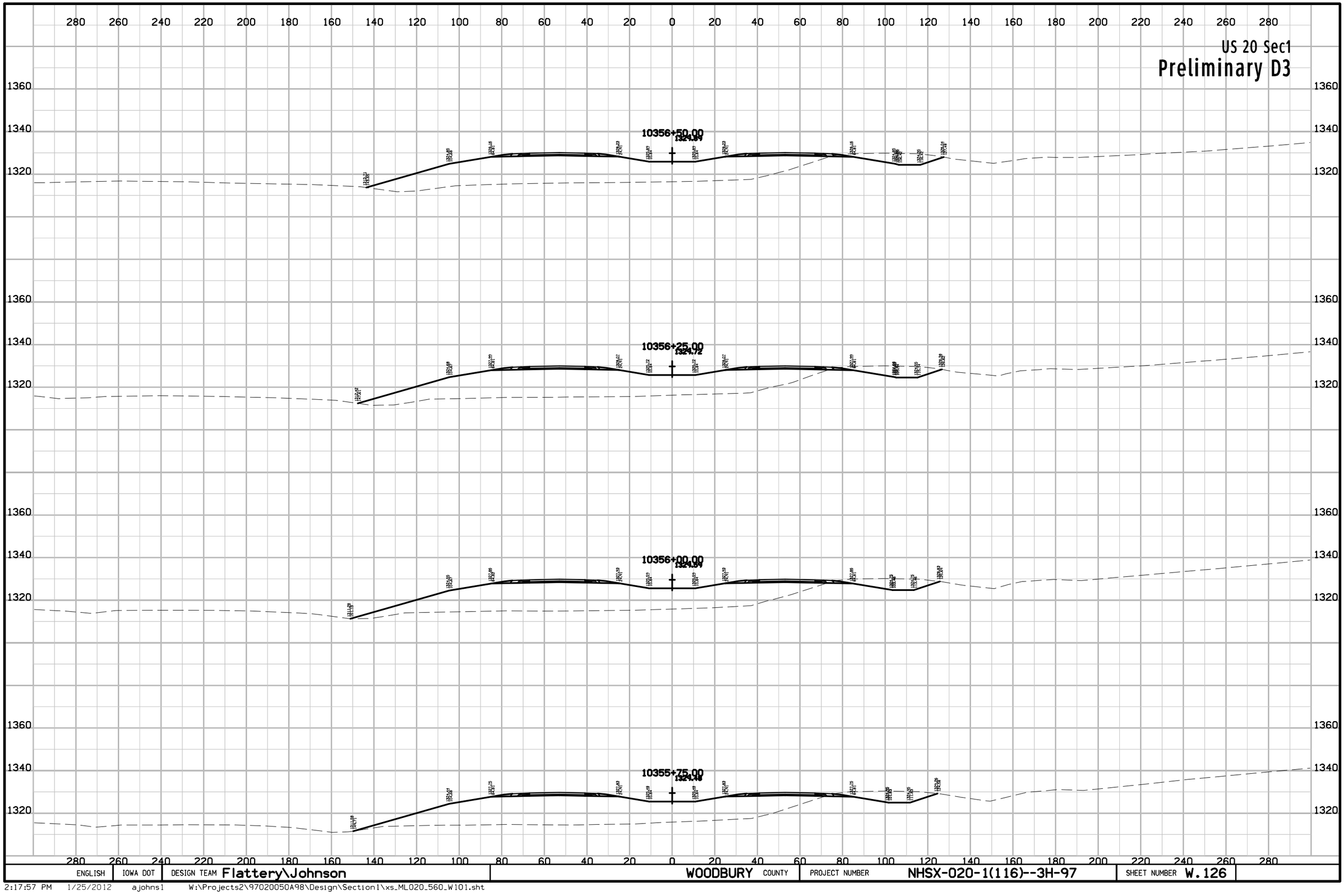


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.125

2:17:57 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

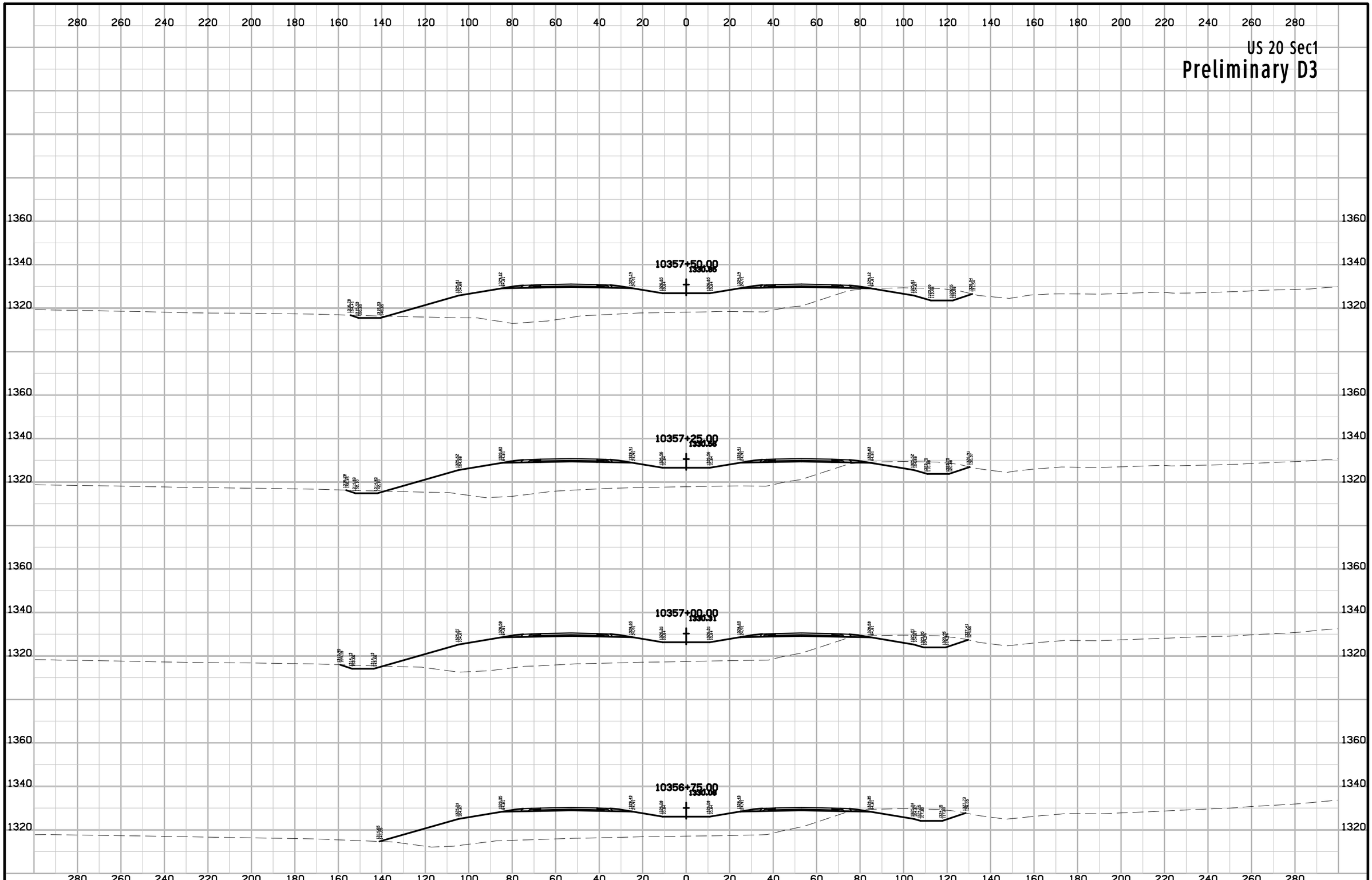


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.126

2:17:57 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

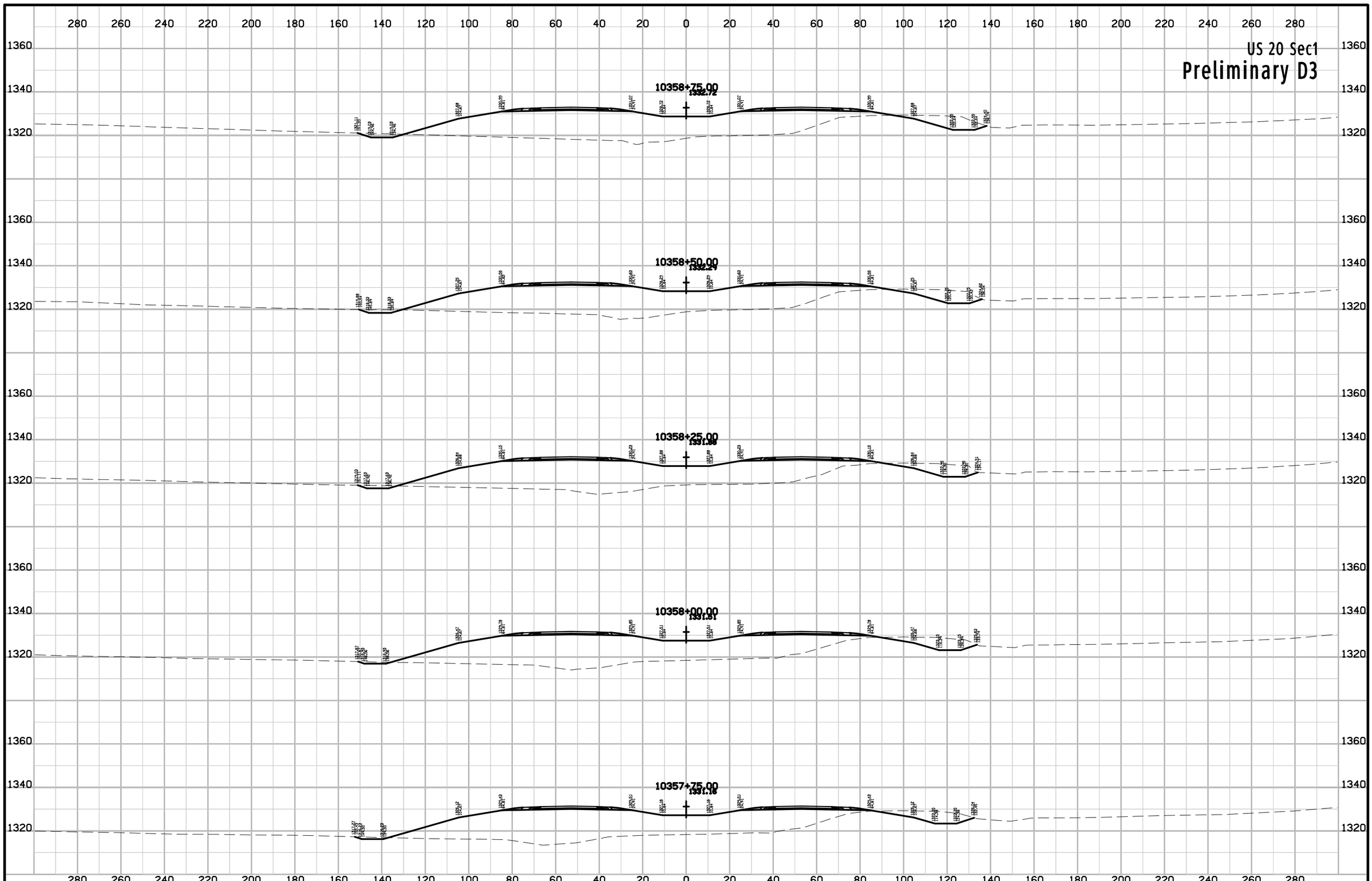


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.127

2:17:58 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

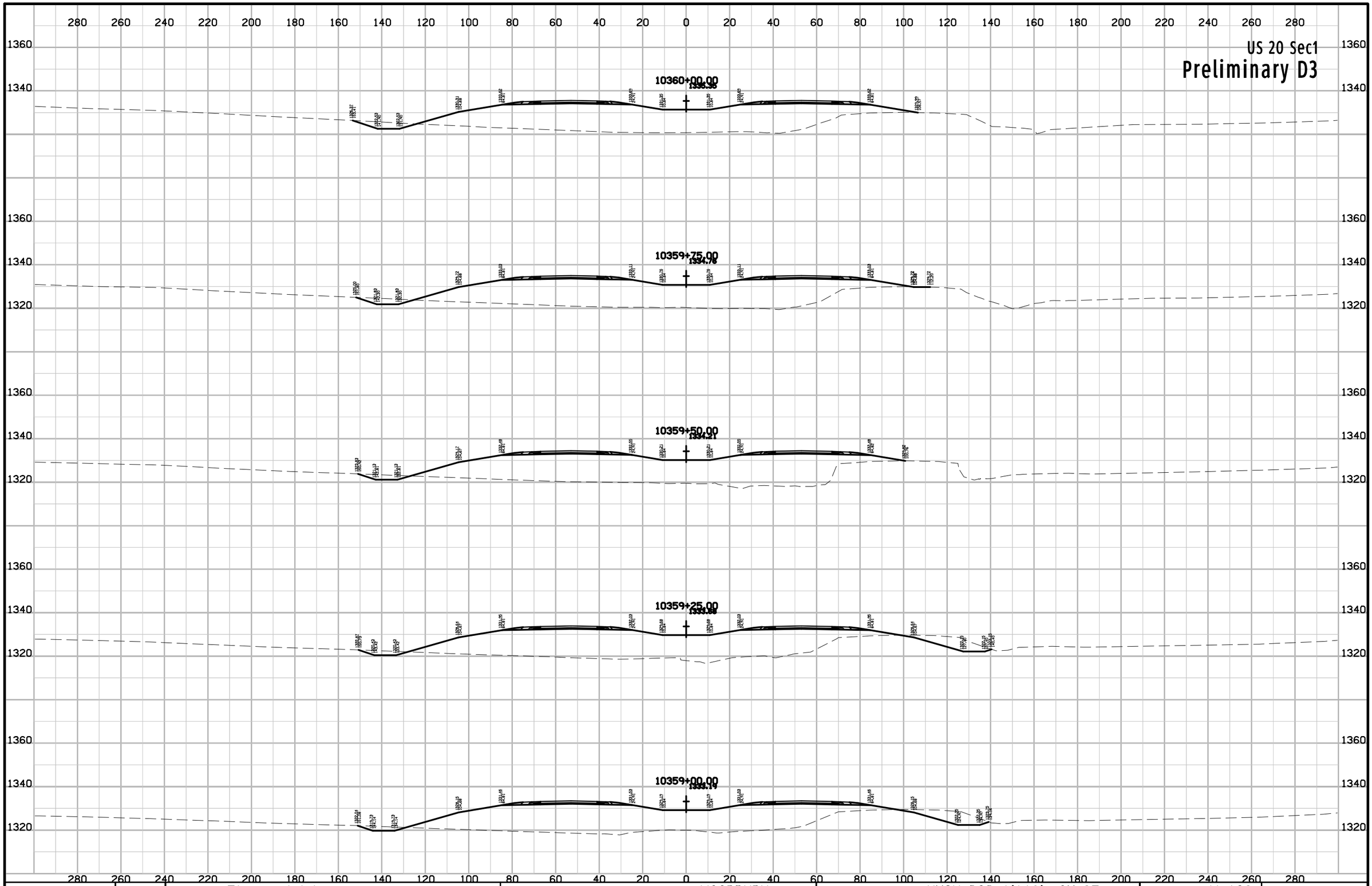


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.128

2:17:59 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

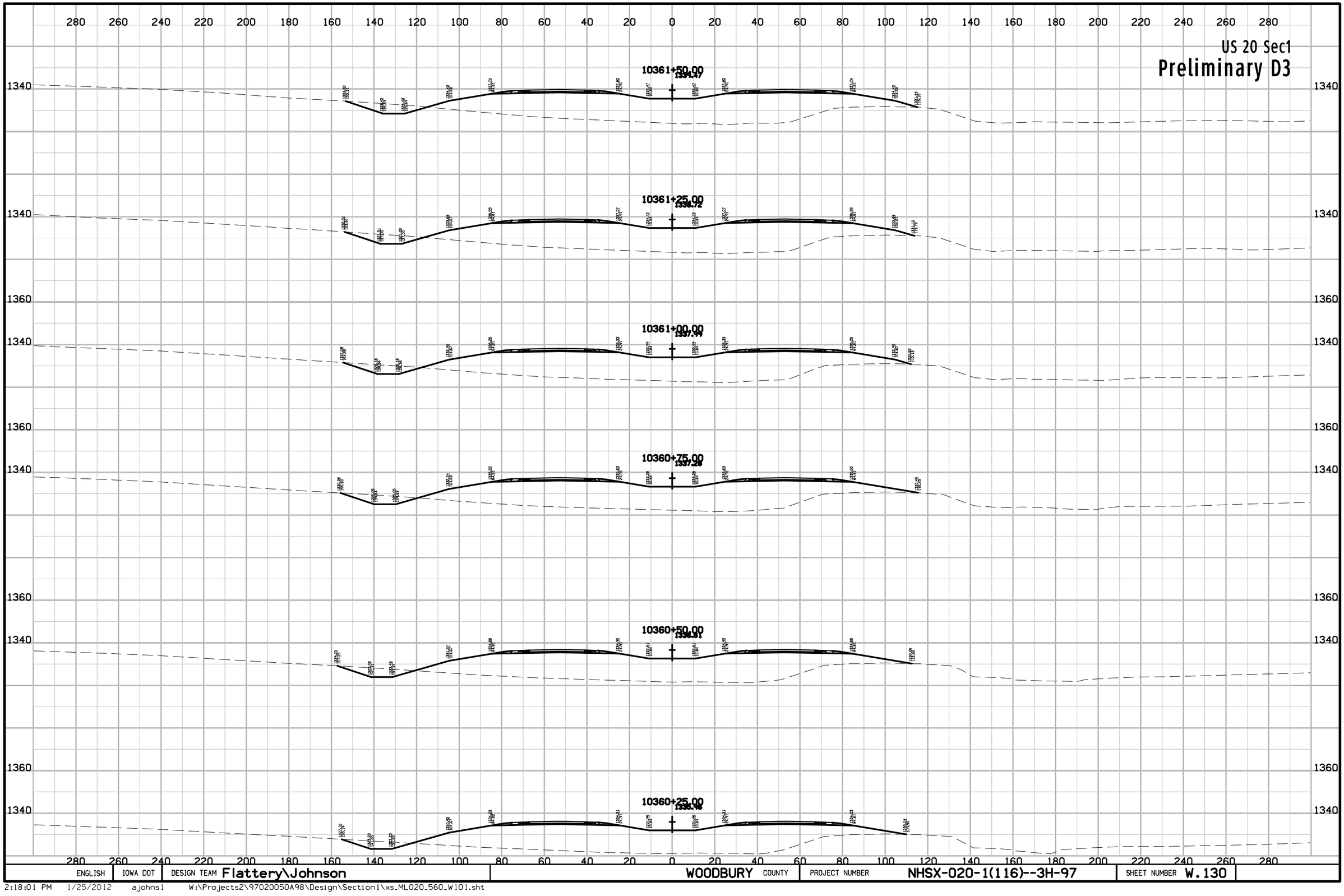


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.129

2:18:00 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

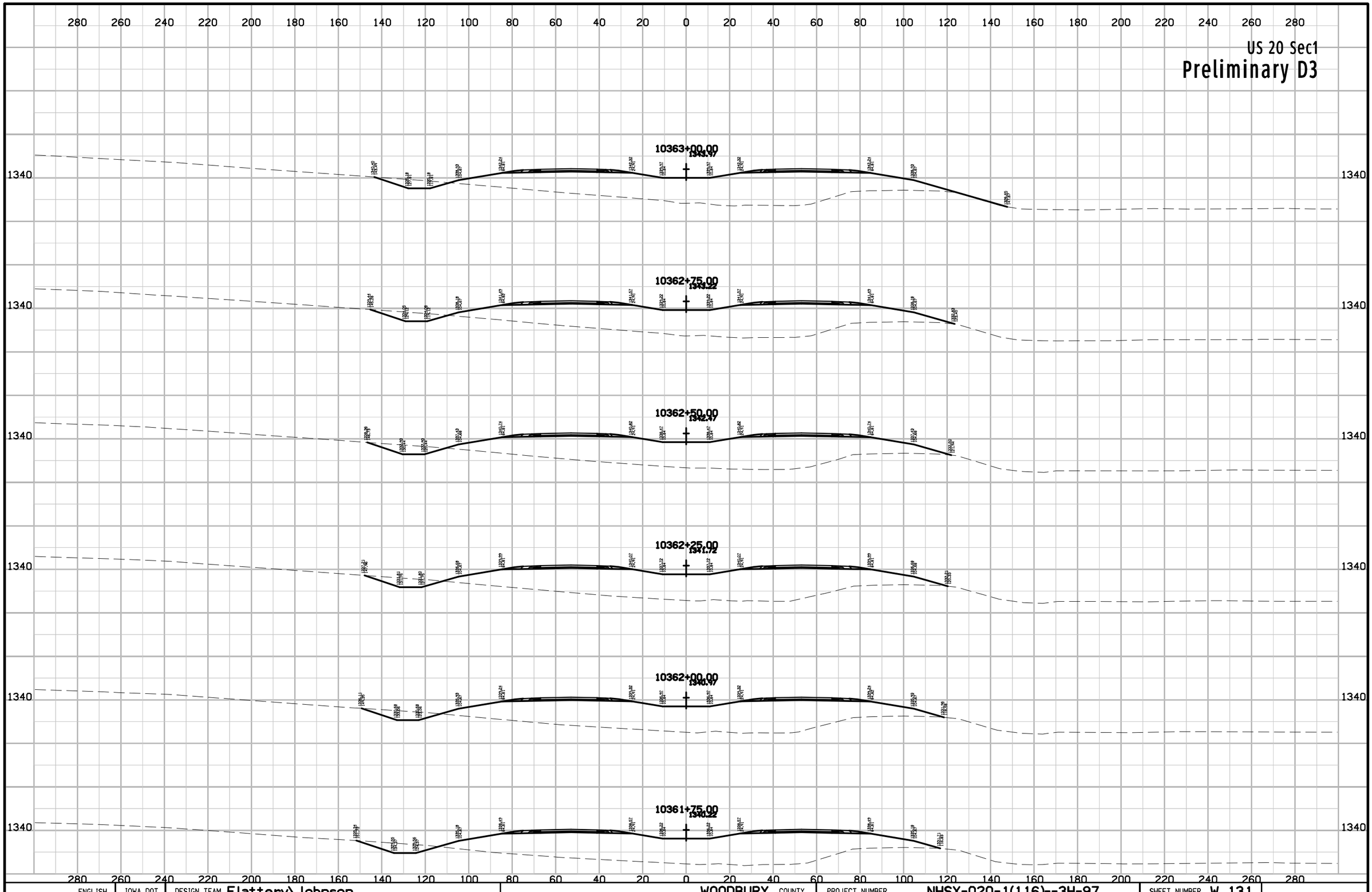


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.130

2:18:01 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

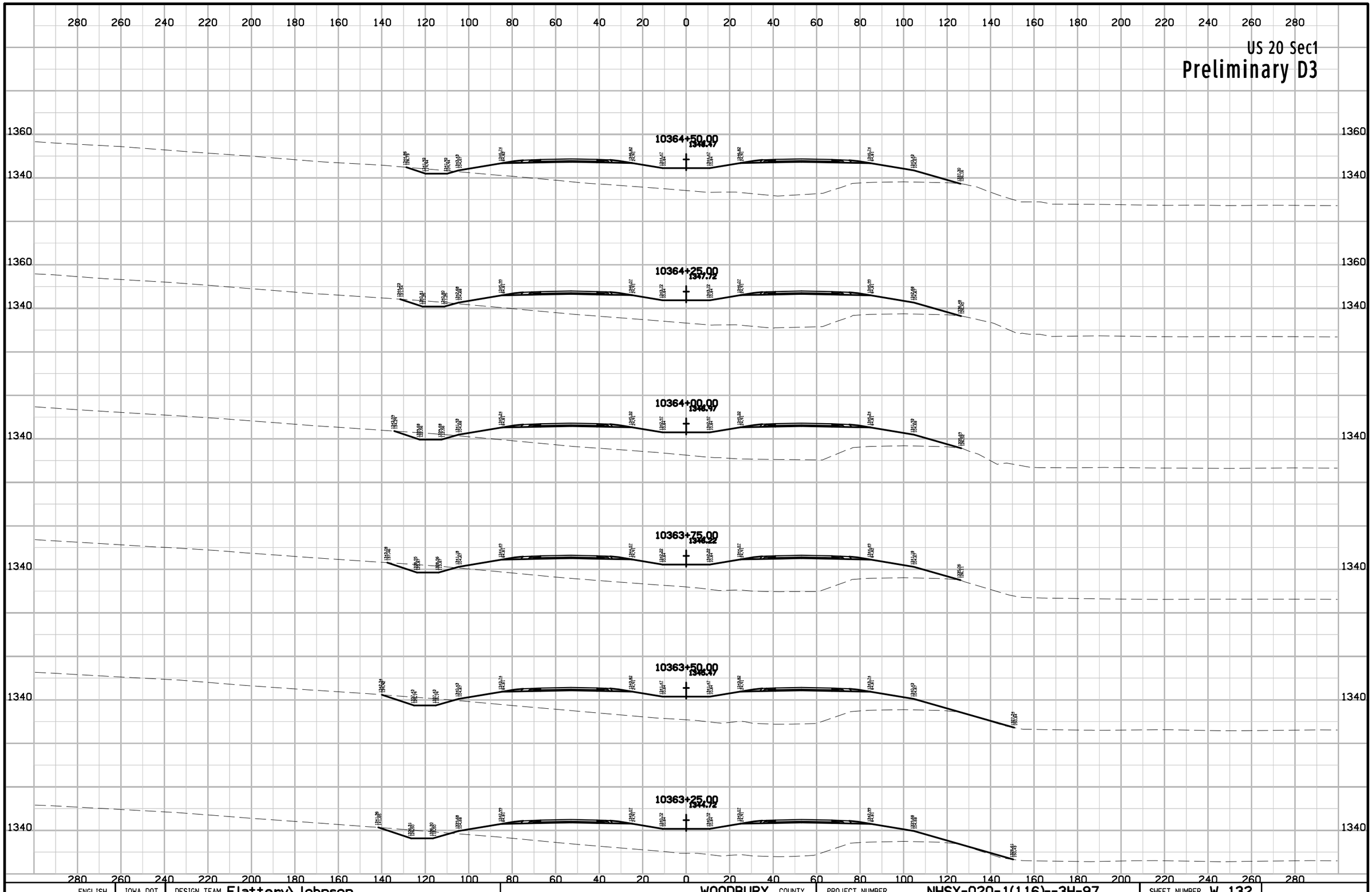


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.131

2:18:02 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

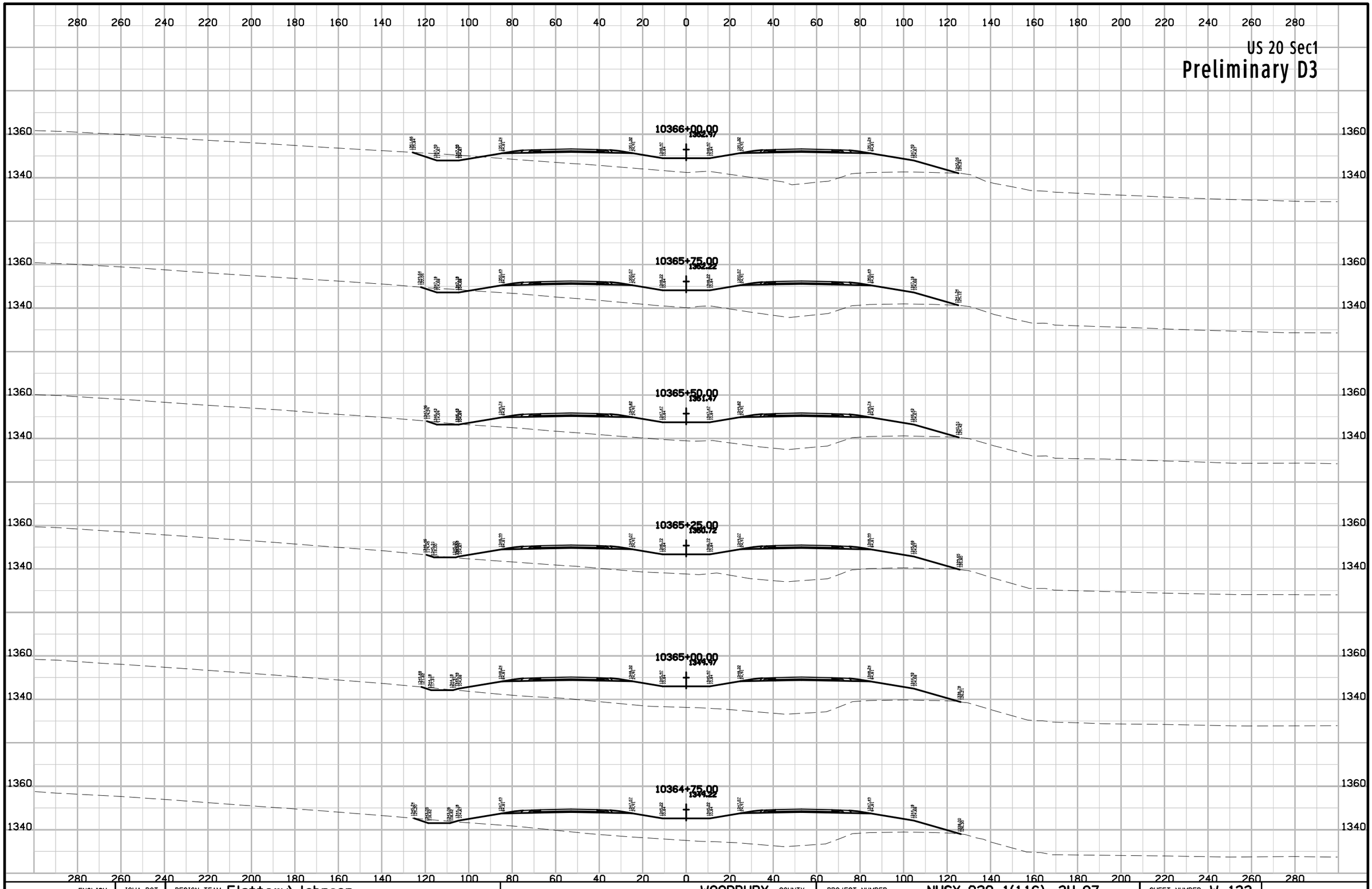


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.132

2:18:02 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

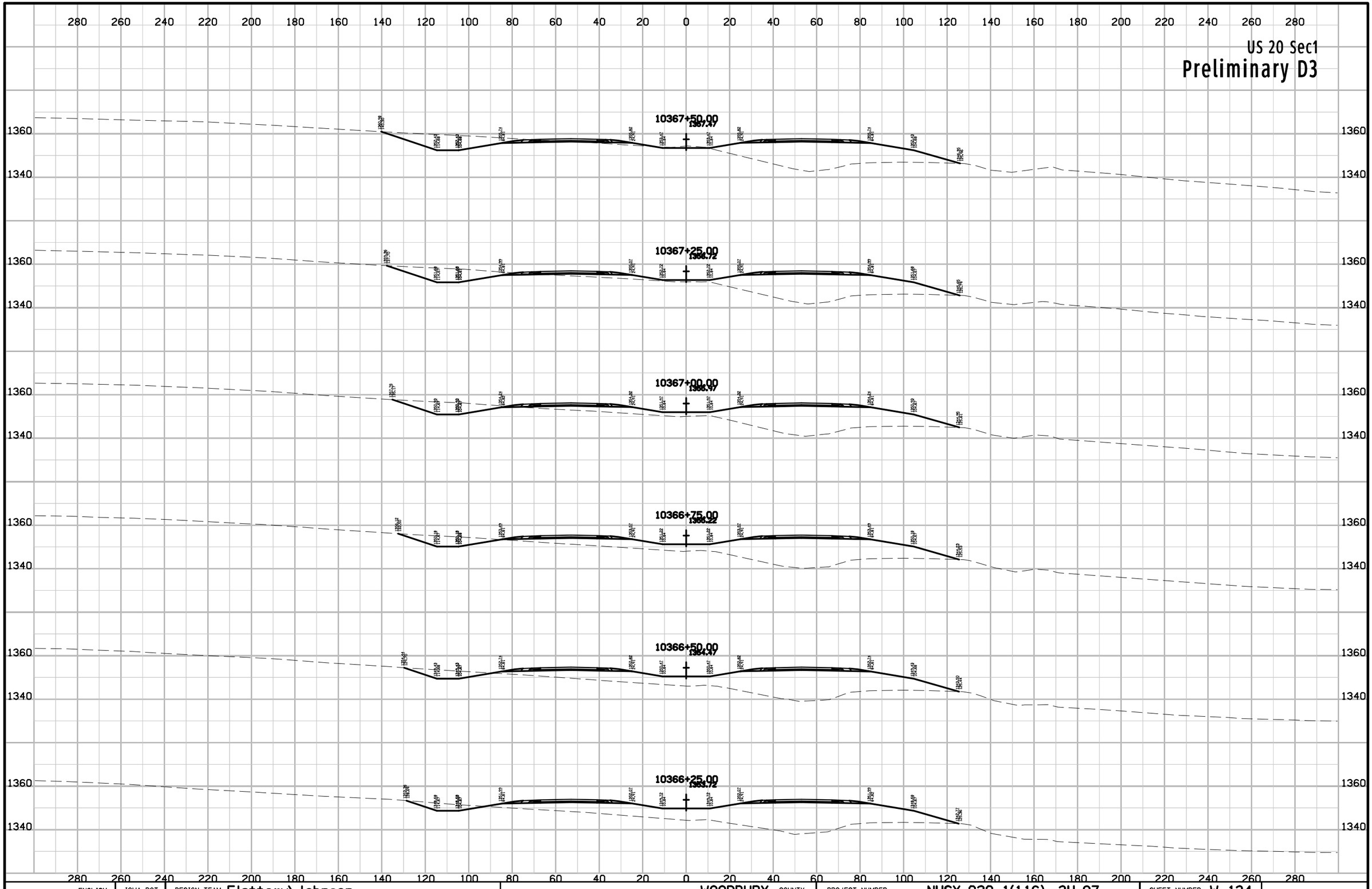


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.133

2:18:03 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

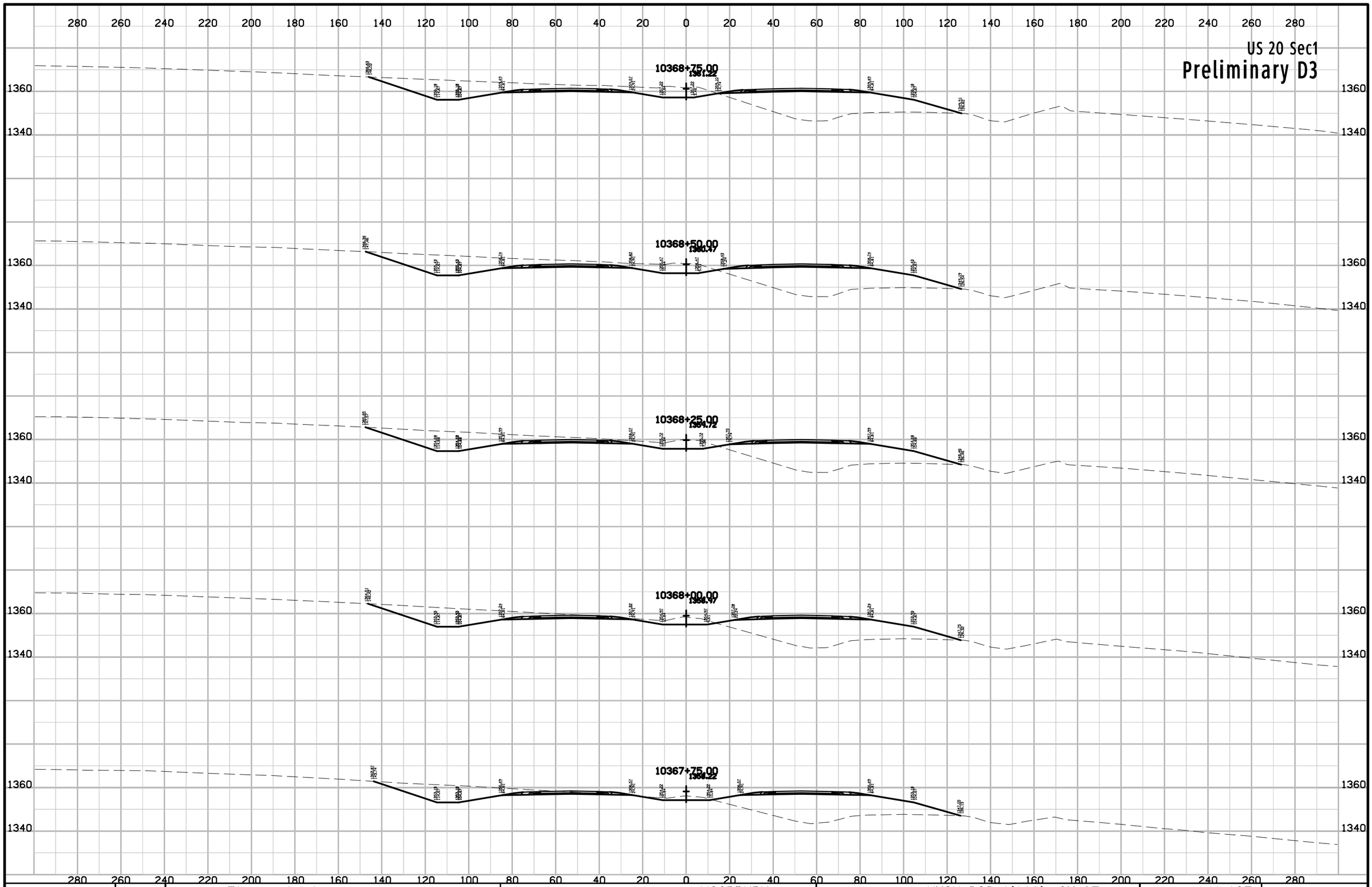


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.134

2:18:04 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3



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

2:18:05 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

10370+00.00
1364.47

10369+75.00
1364.22

10369+50.00
1363.47

10369+25.00
1362.72

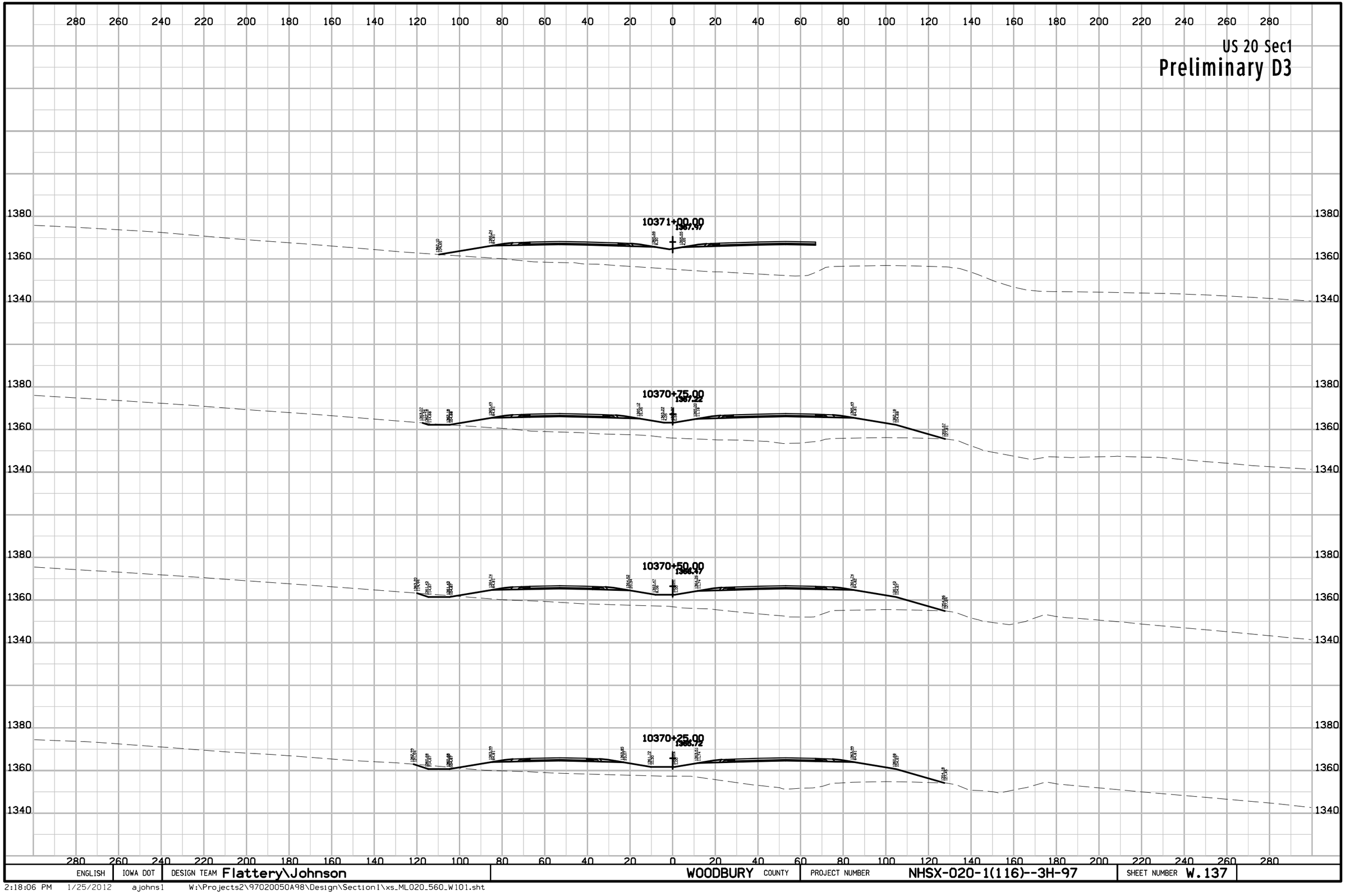
10369+00.00
1361.97

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

2:18:06 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

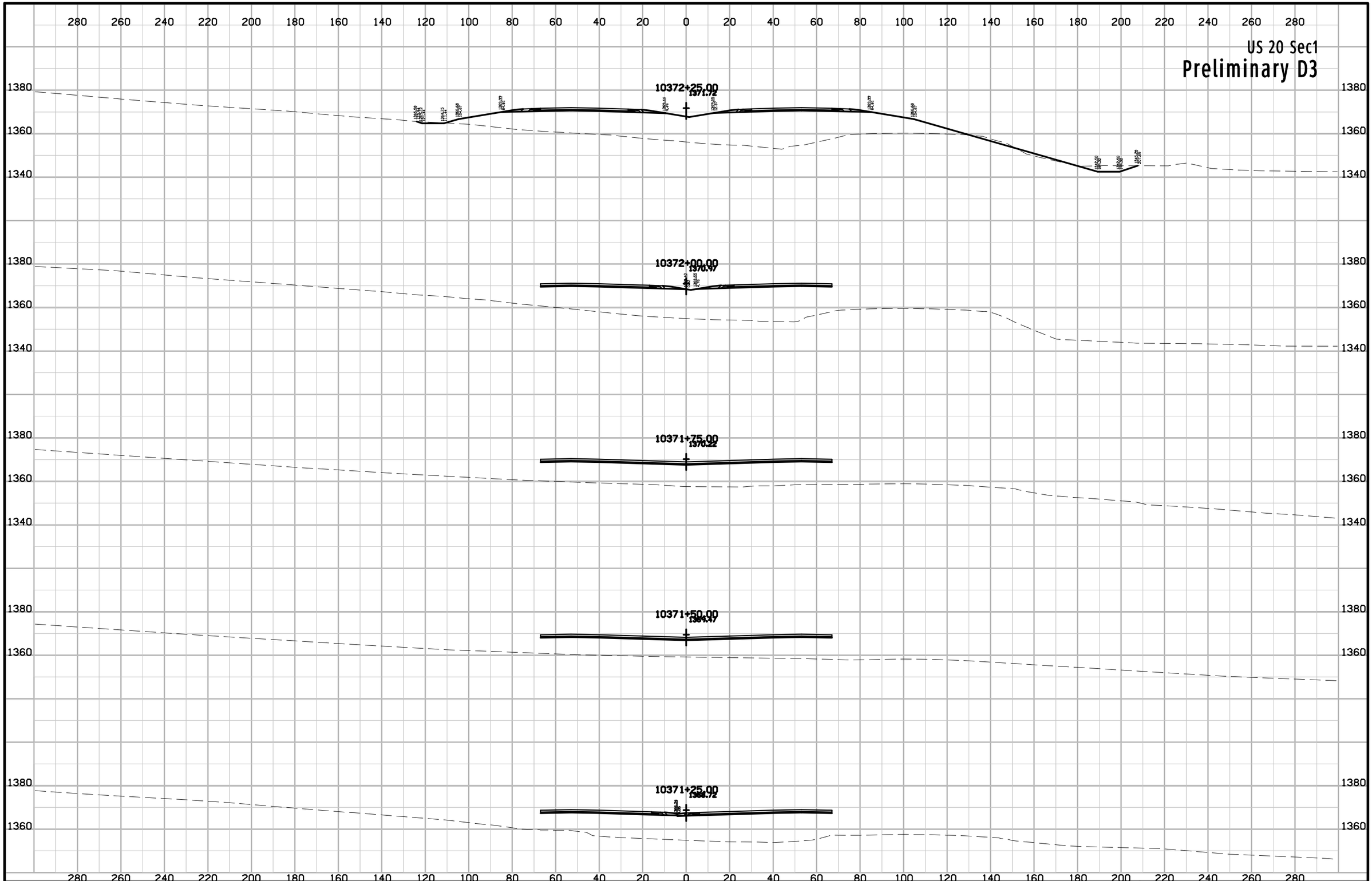


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.137

2:18:06 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

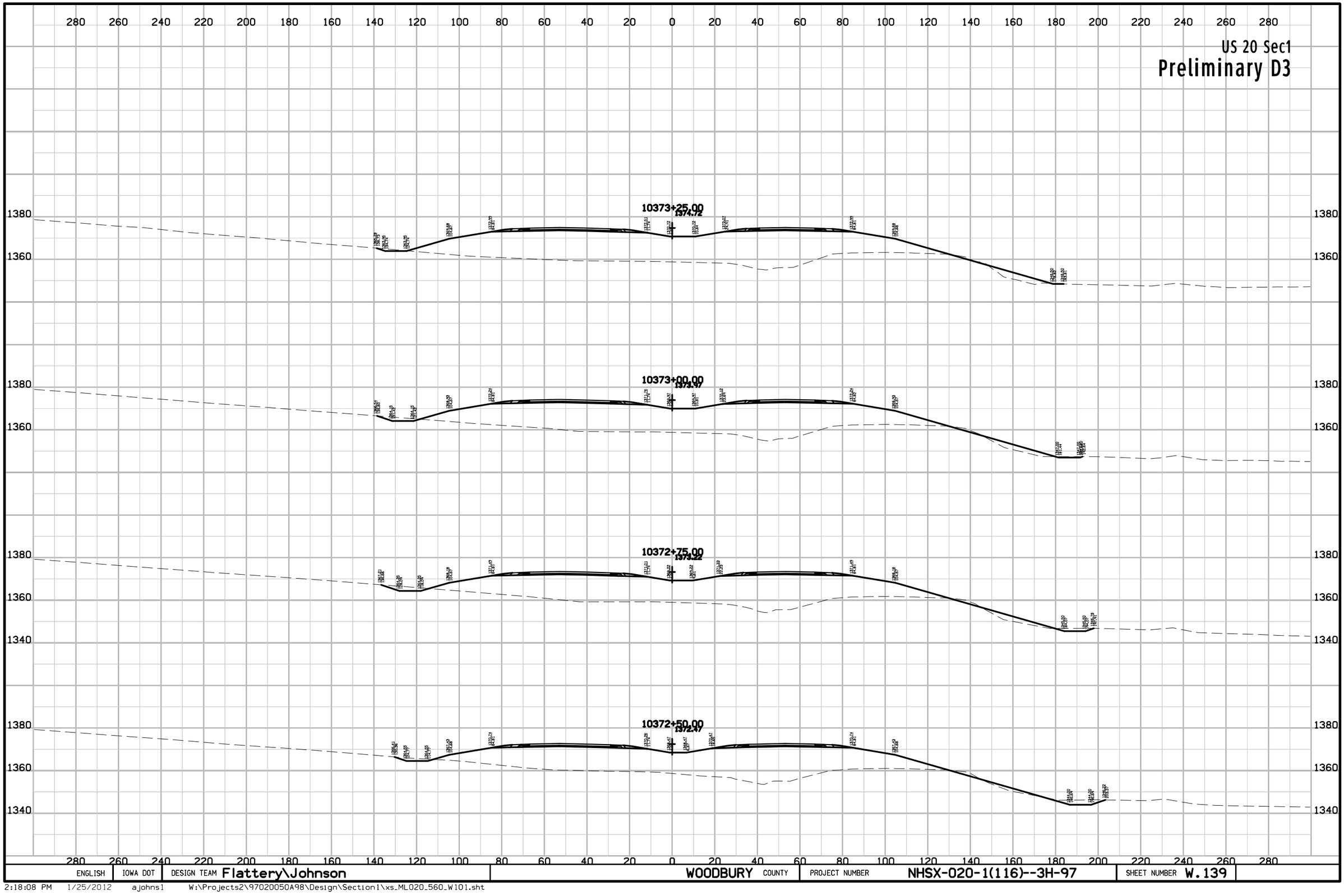


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.138

2:18:07 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

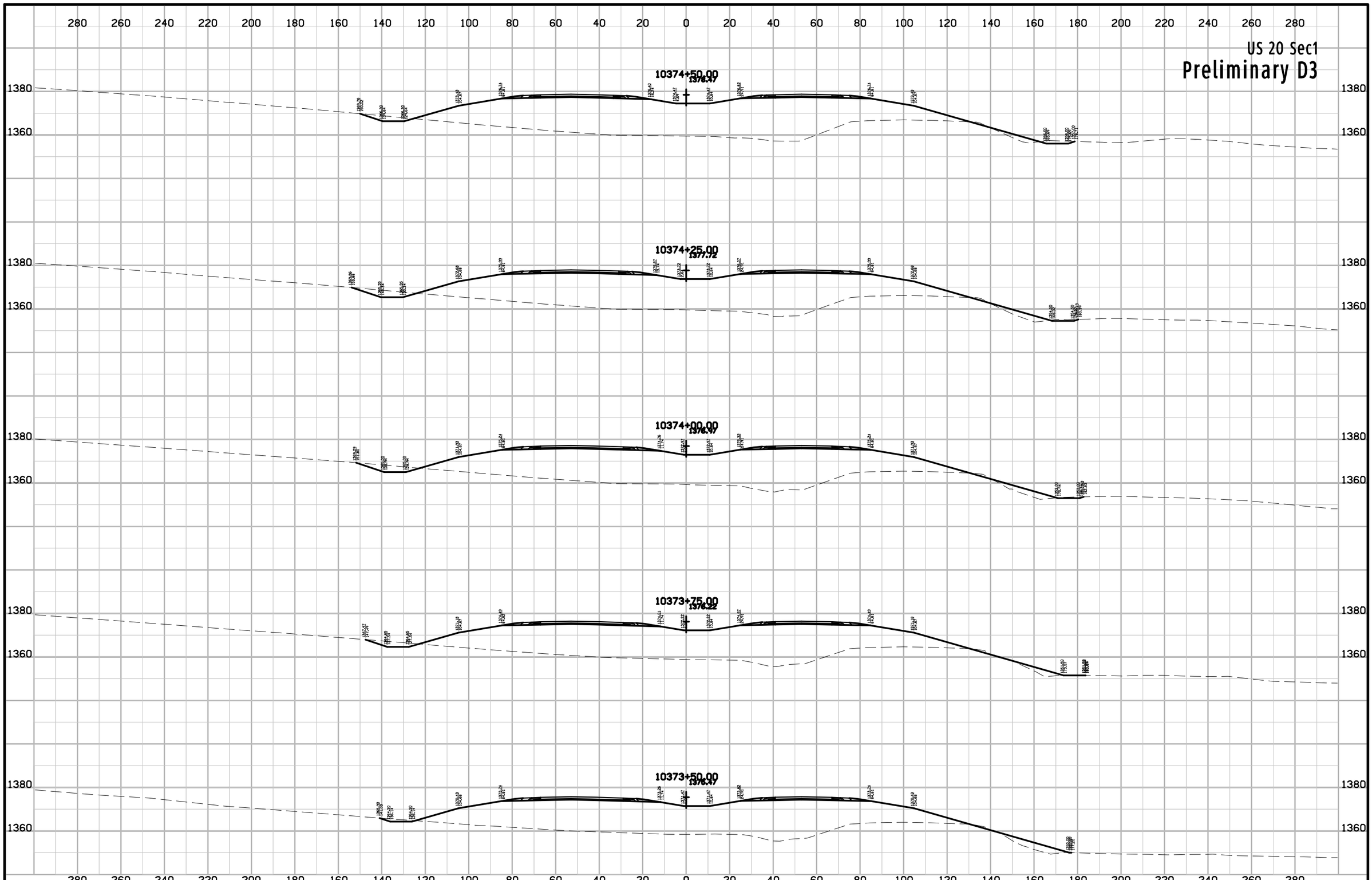


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.139

2:18:08 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

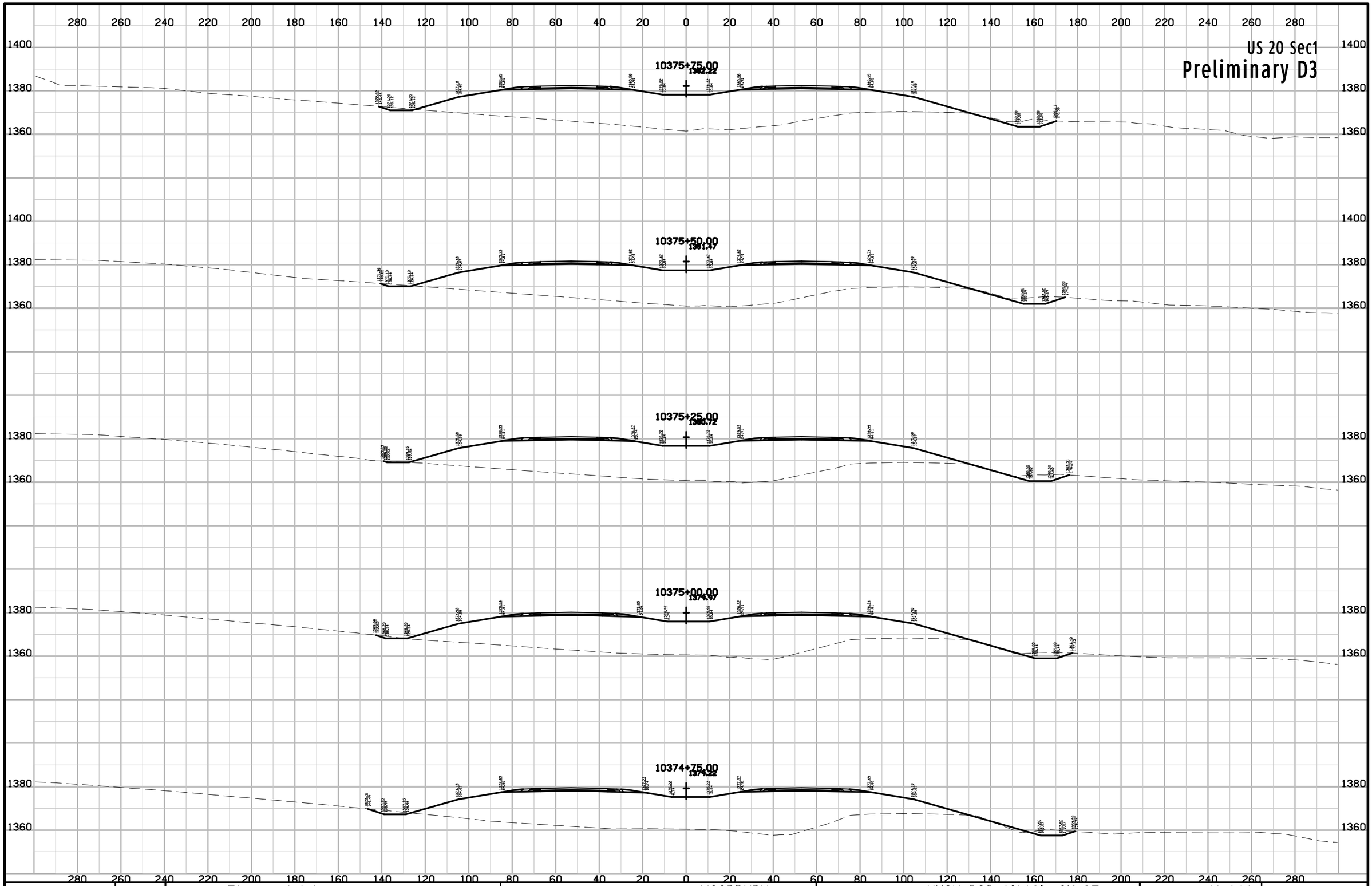


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.140

2:18:09 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

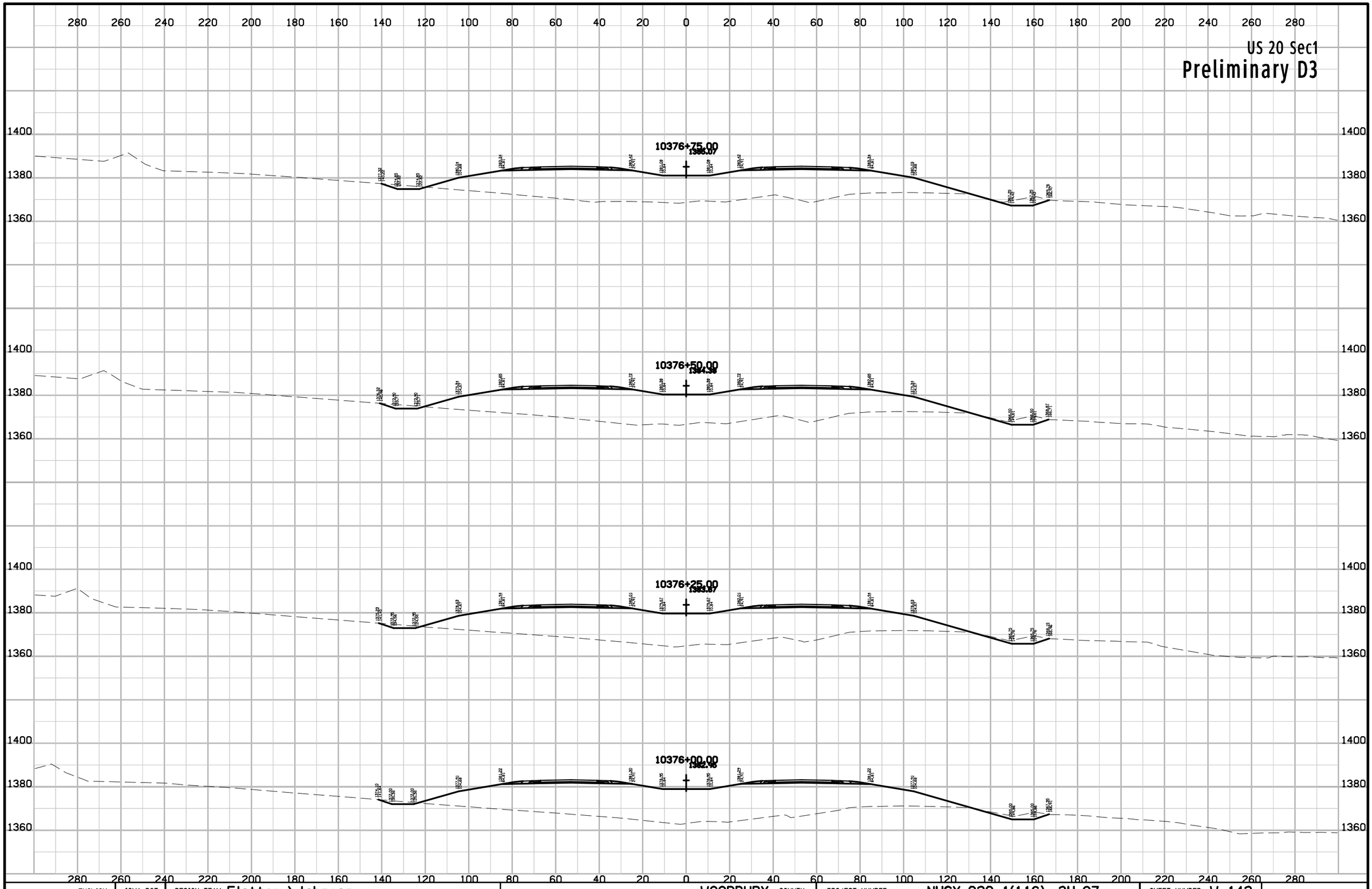


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.141

2:18:10 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

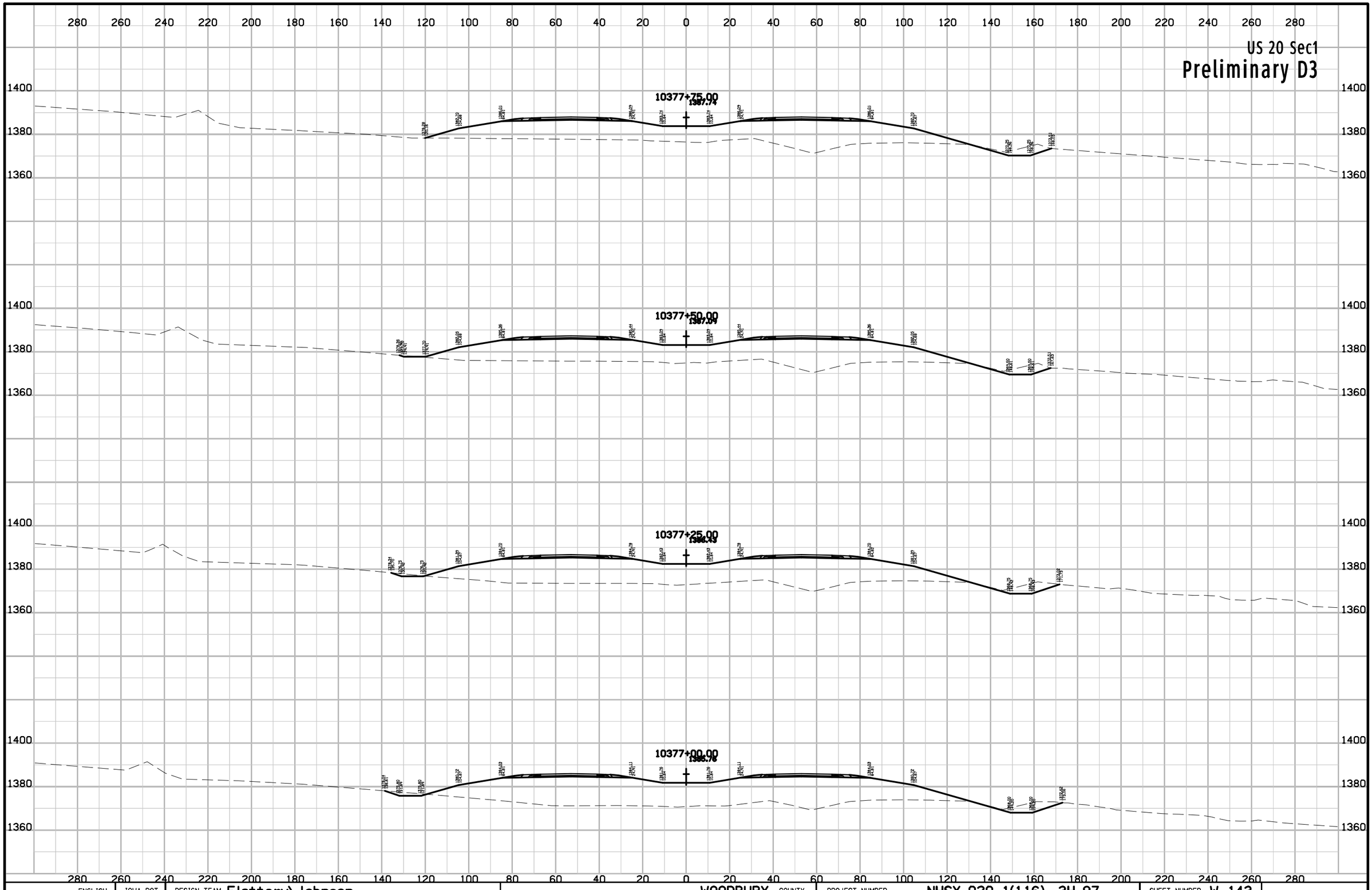


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.142

2:18:10 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

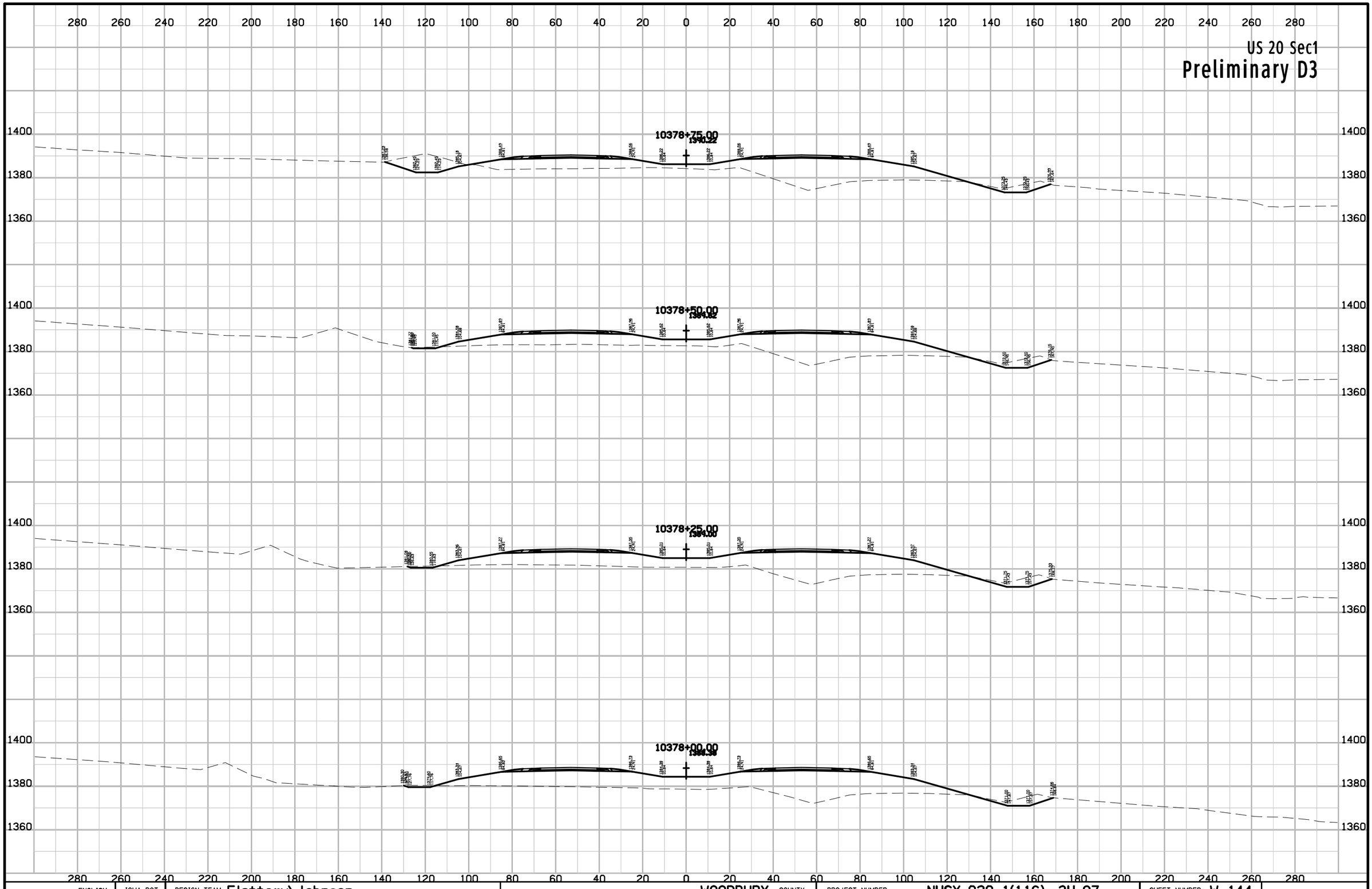


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.143

2:18:11 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3



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

2:18:12 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

10380+00.00
1343.06

10379+75.00
1342.51

10379+50.00
1341.98

10379+25.00
1341.39

10379+00.00
1340.81

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

2:18:13 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

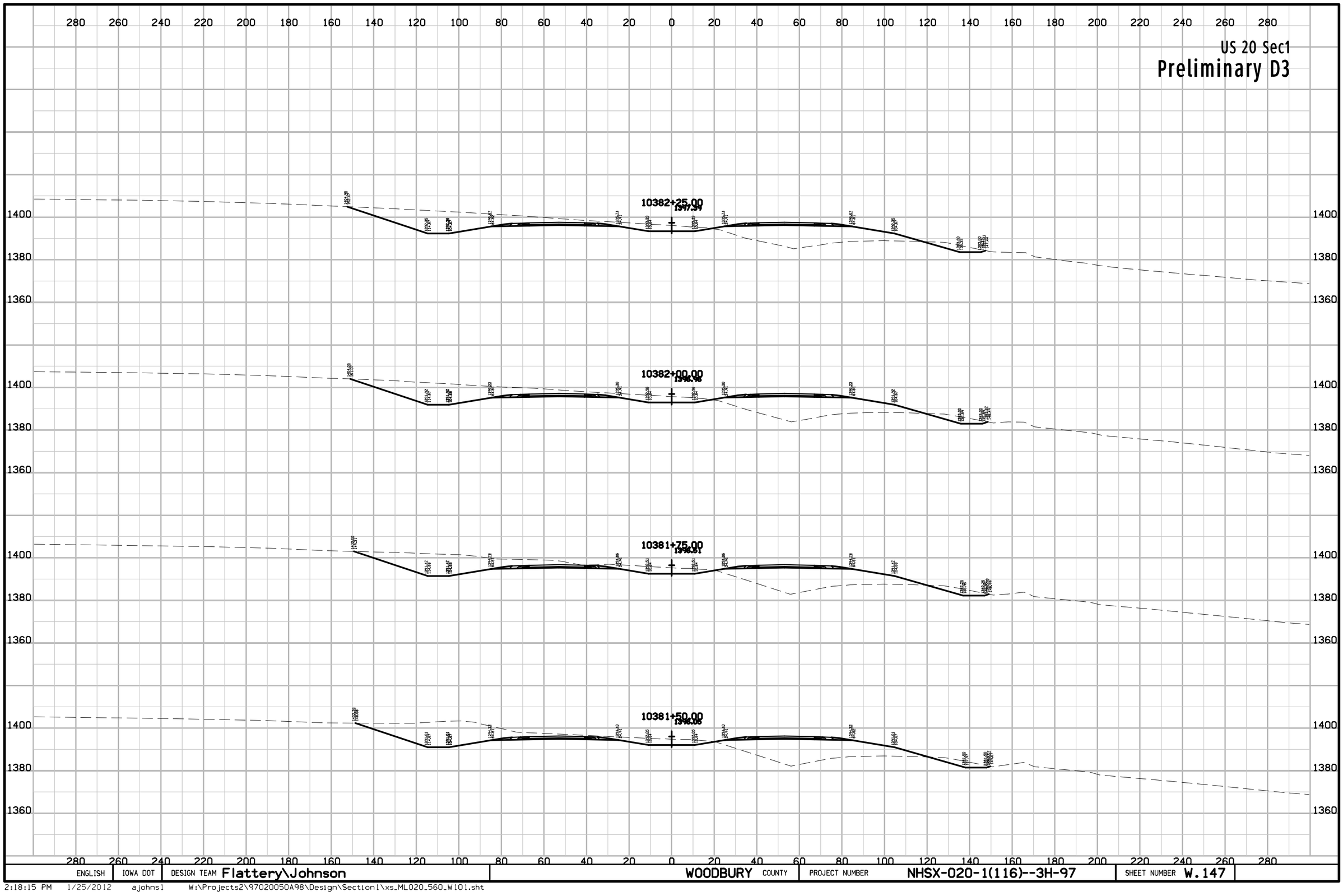
Preliminary D3

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

2:18:14 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3



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

2:18:15 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

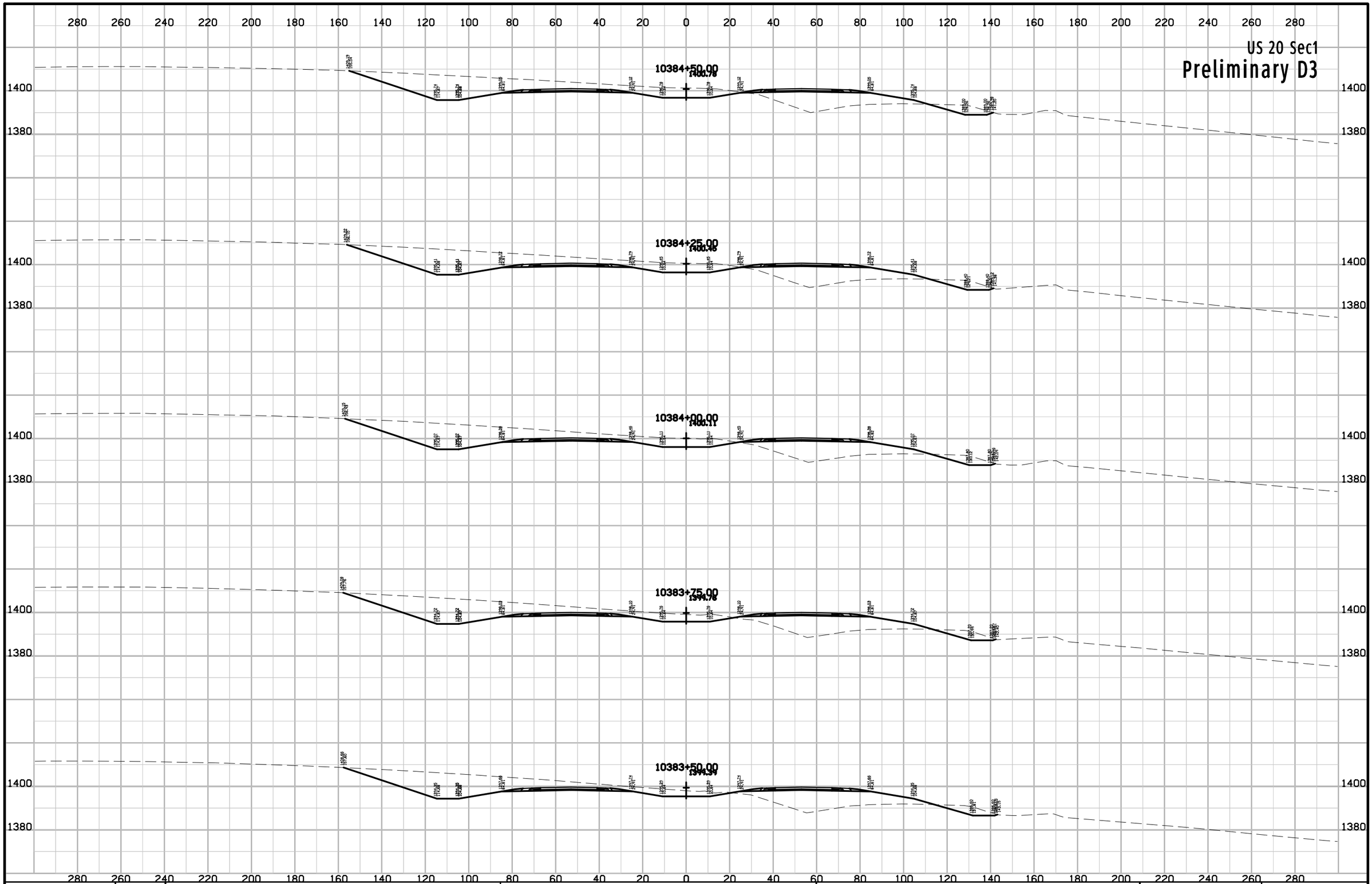
Preliminary D3

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

2:18:15 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

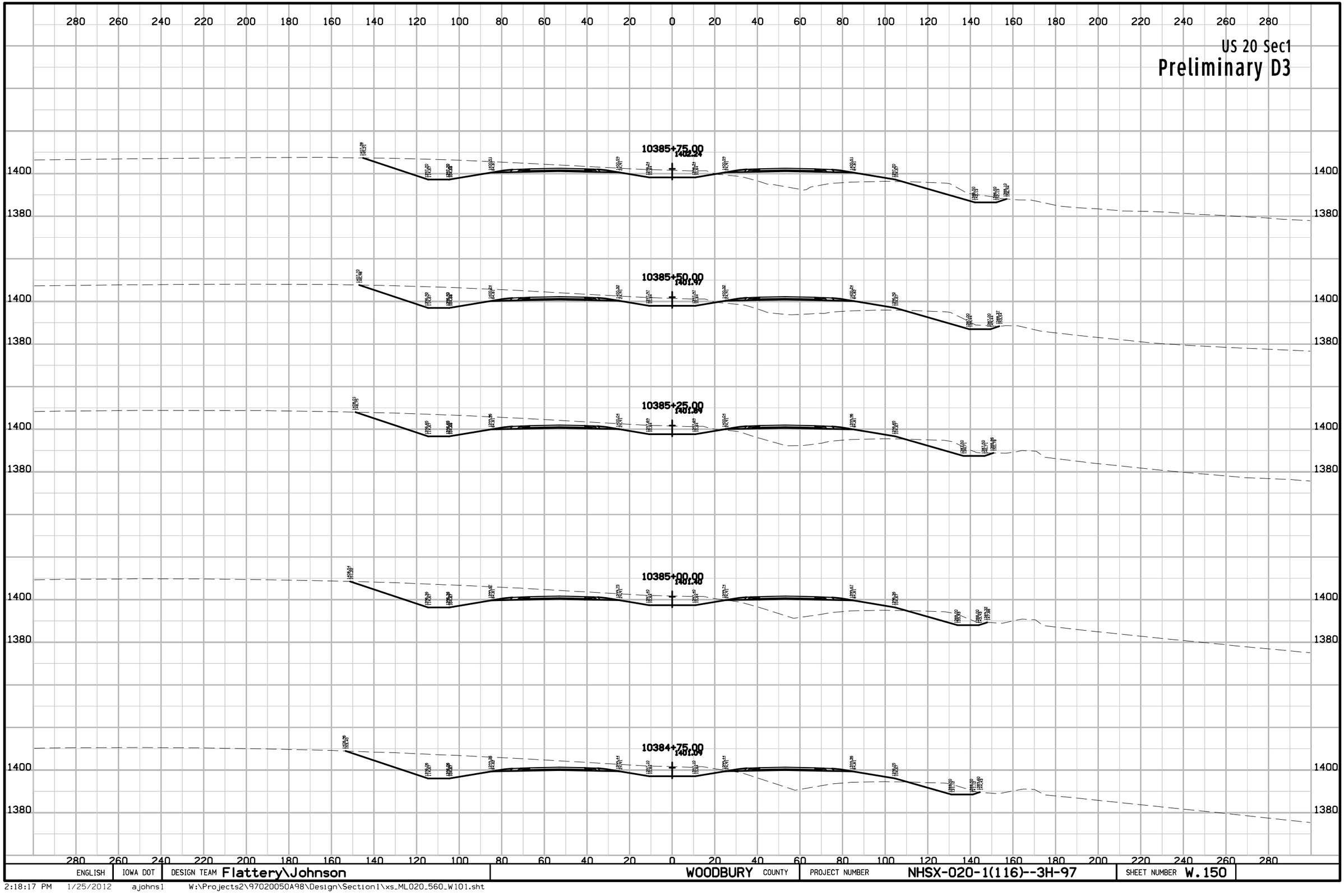


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.149

2:18:16 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

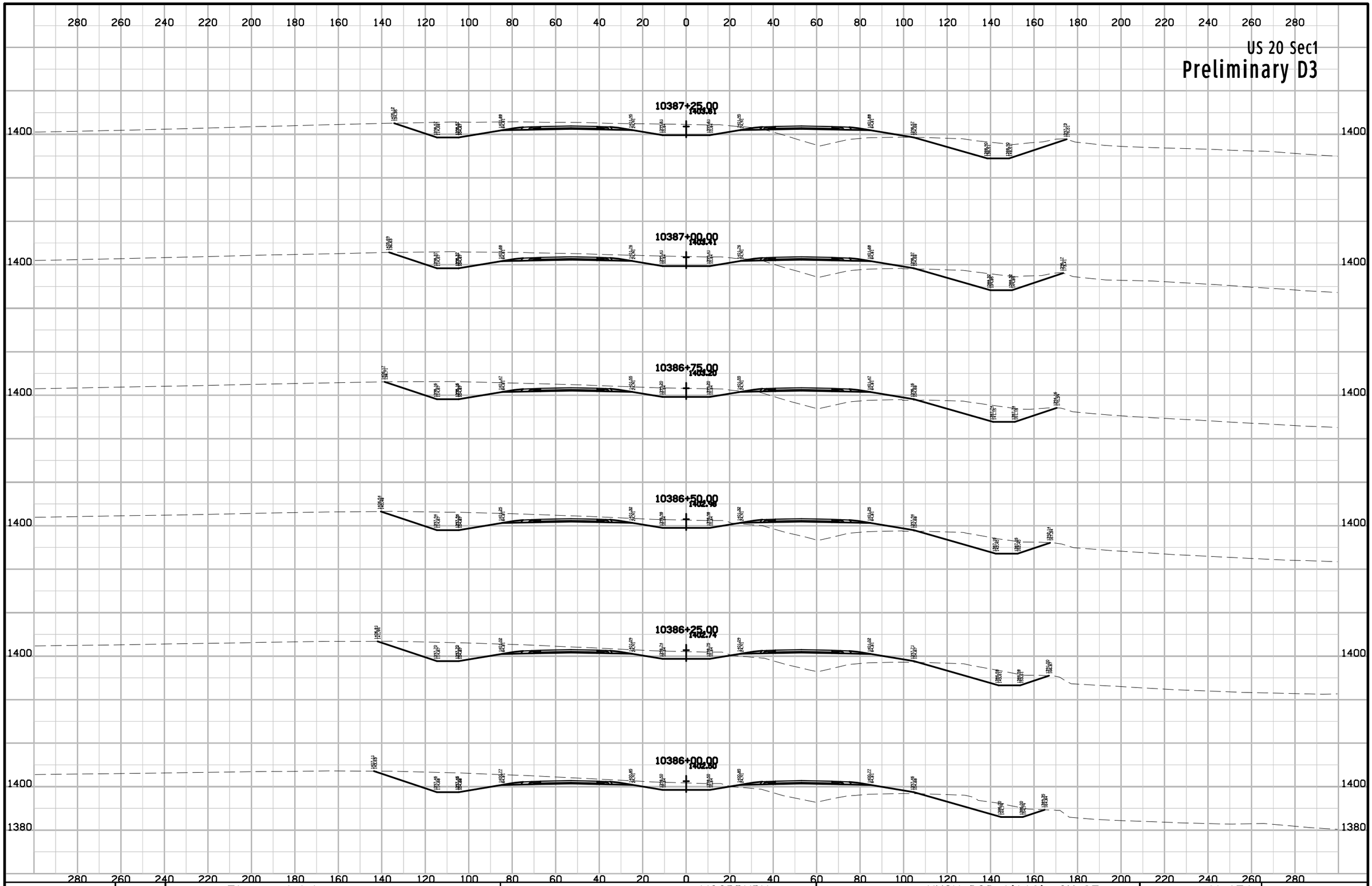


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.150

2:18:17 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3



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

2:18:18 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

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

10388+75.00
1404.94

10388+50.00
1404.42

10388+25.00
1404.28

10388+00.00
1404.19

10387+75.00
1403.97

10387+50.00
1403.79

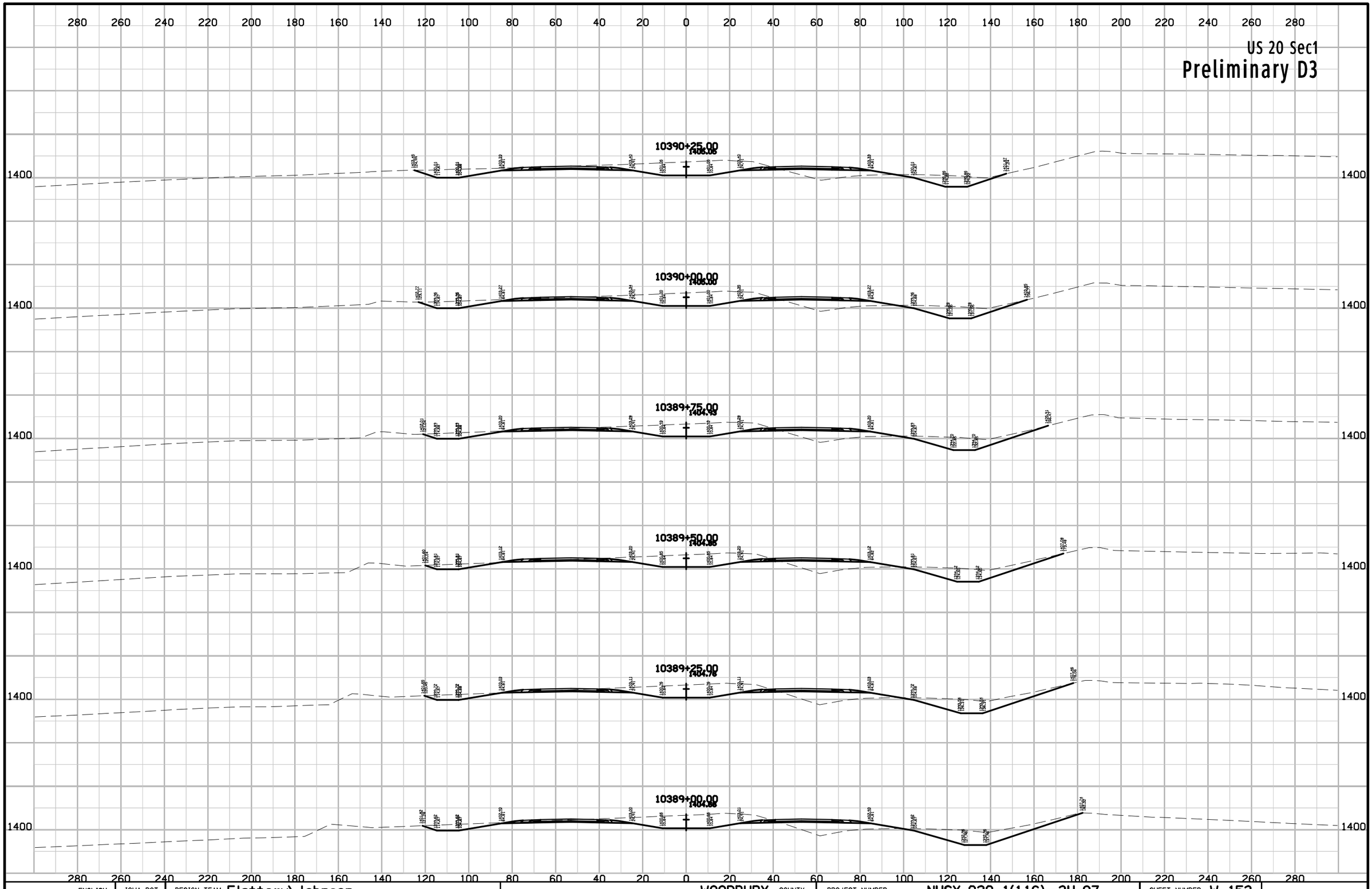
1400

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

2:18:19 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

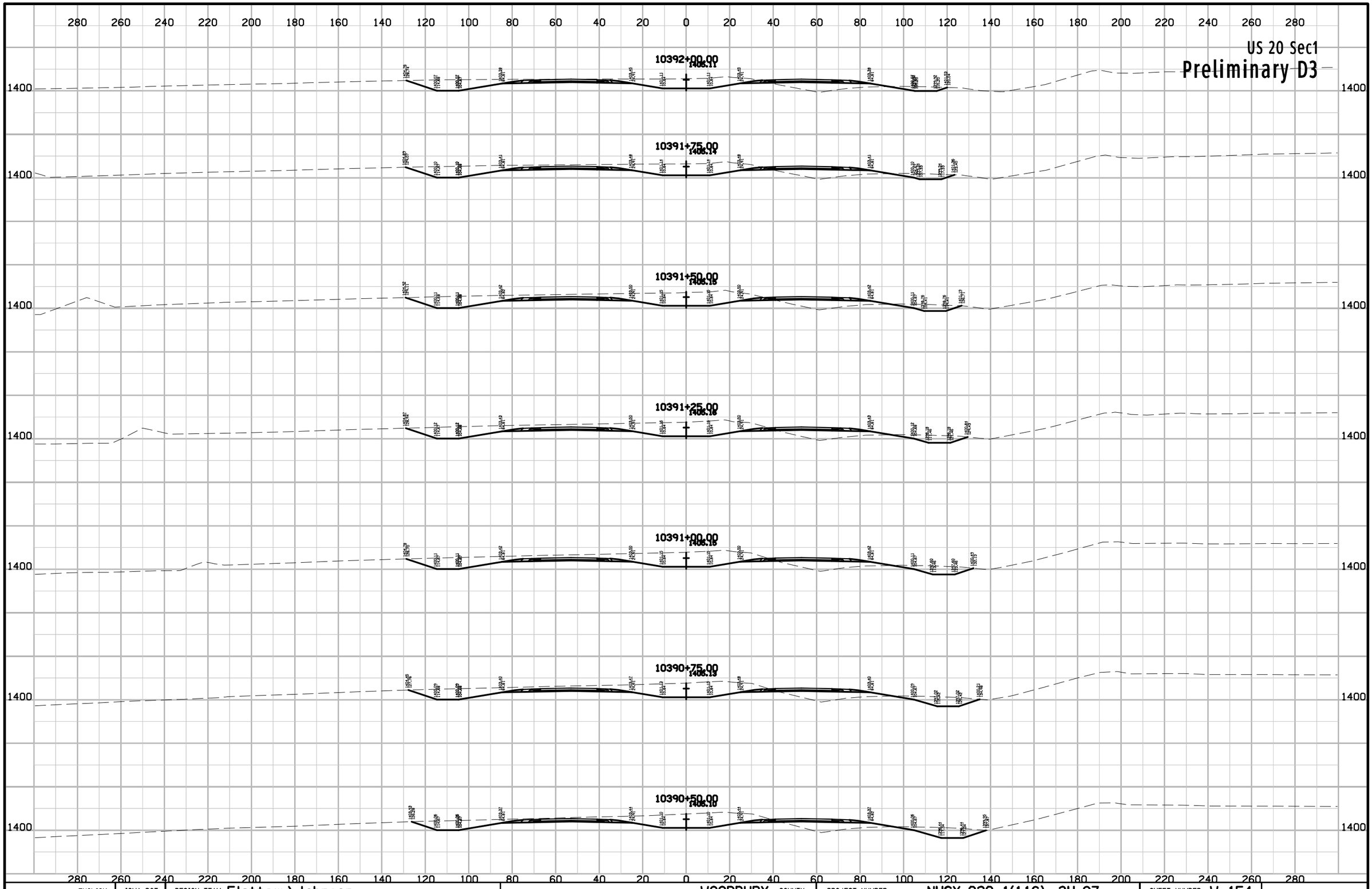


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.153

2:18:20 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3



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

2:18:20 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

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

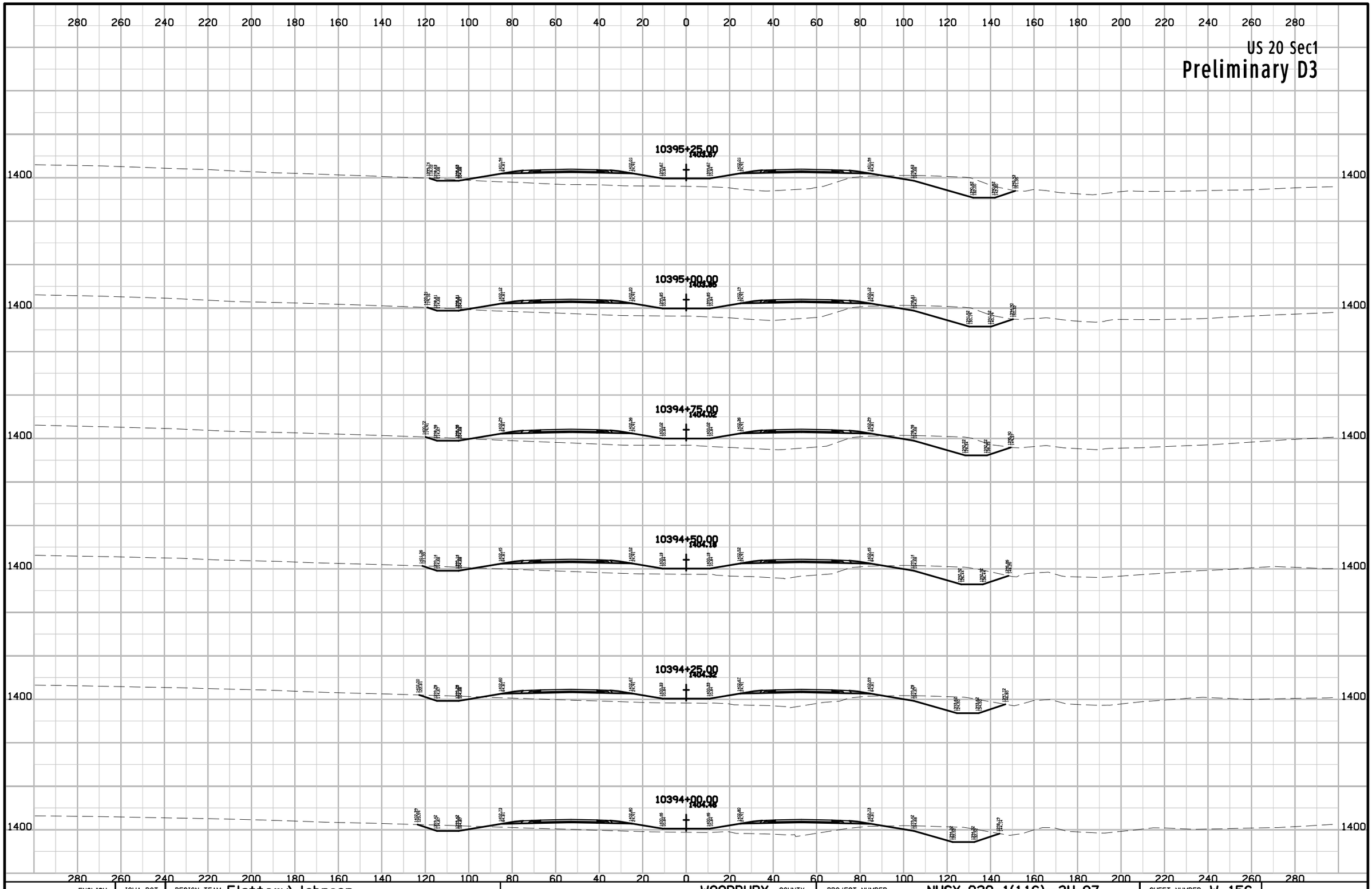
1400

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

2:18:21 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3



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

2:18:22 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

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

10396+75.00
1402.32

10396+50.00
1402.39

10396+25.00
1402.42

10396+00.00
1403.08

10395+75.00
1403.27

10395+50.00
1403.47

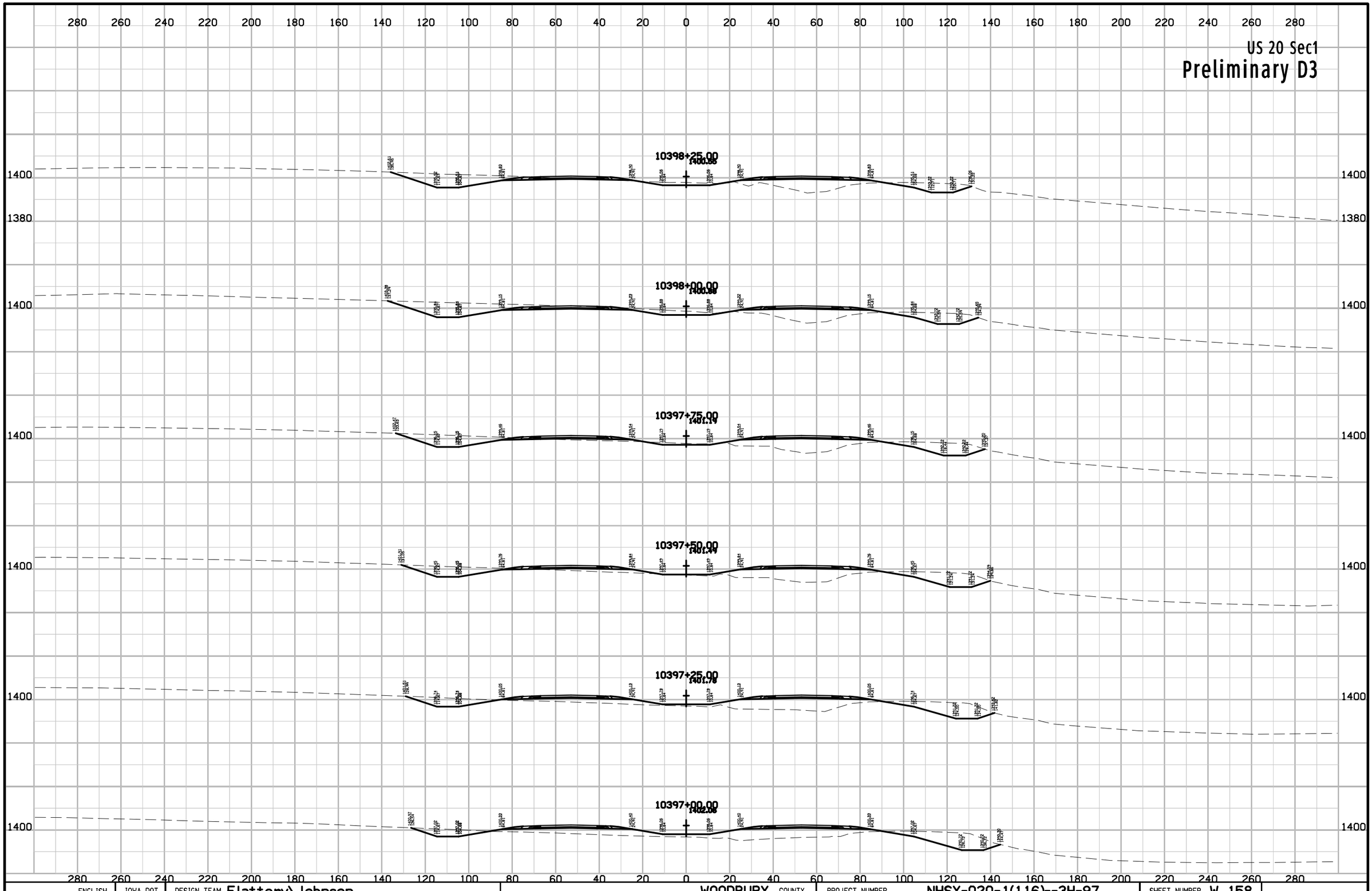
1400

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

2:18:23 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

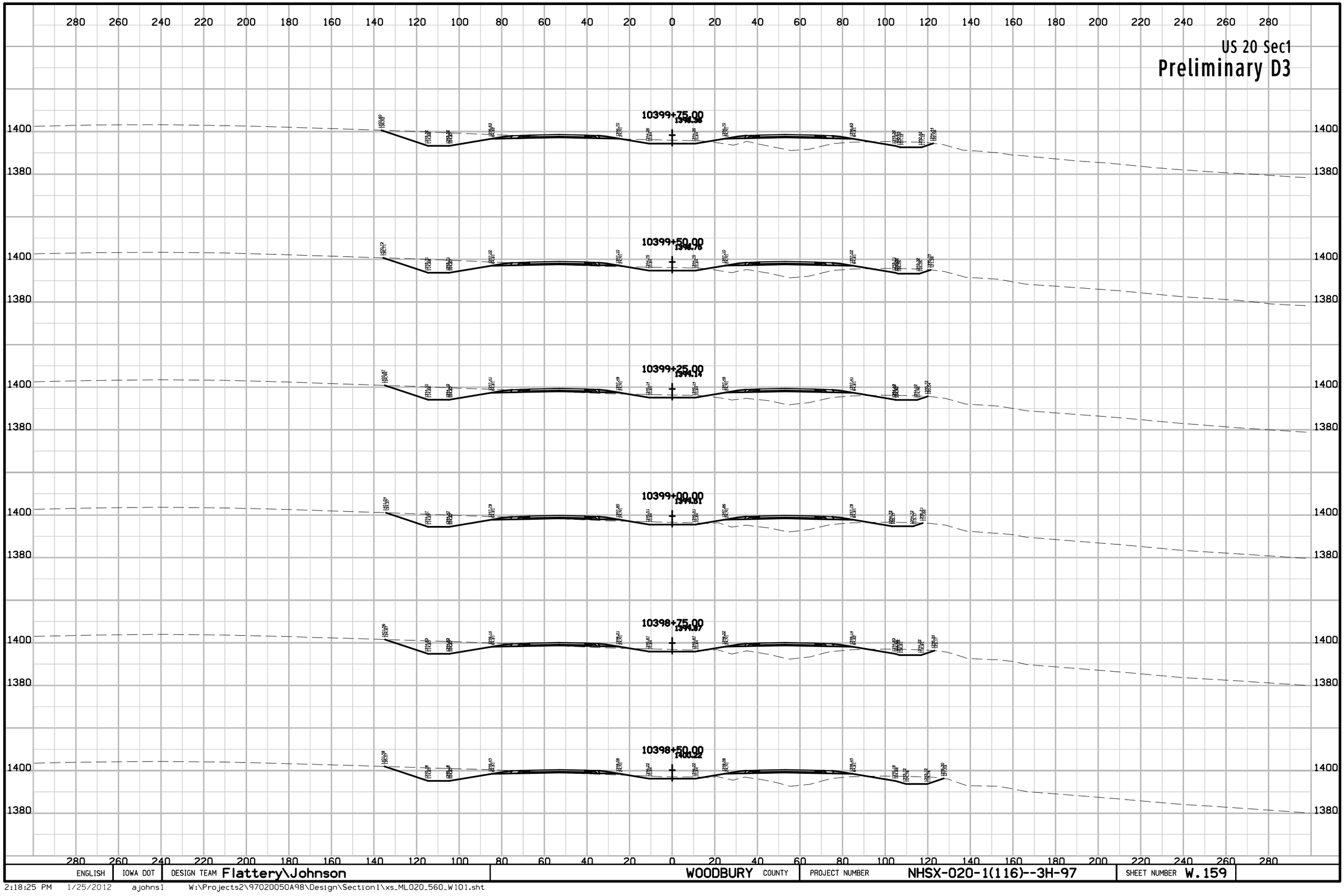


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.158

2:18:24 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

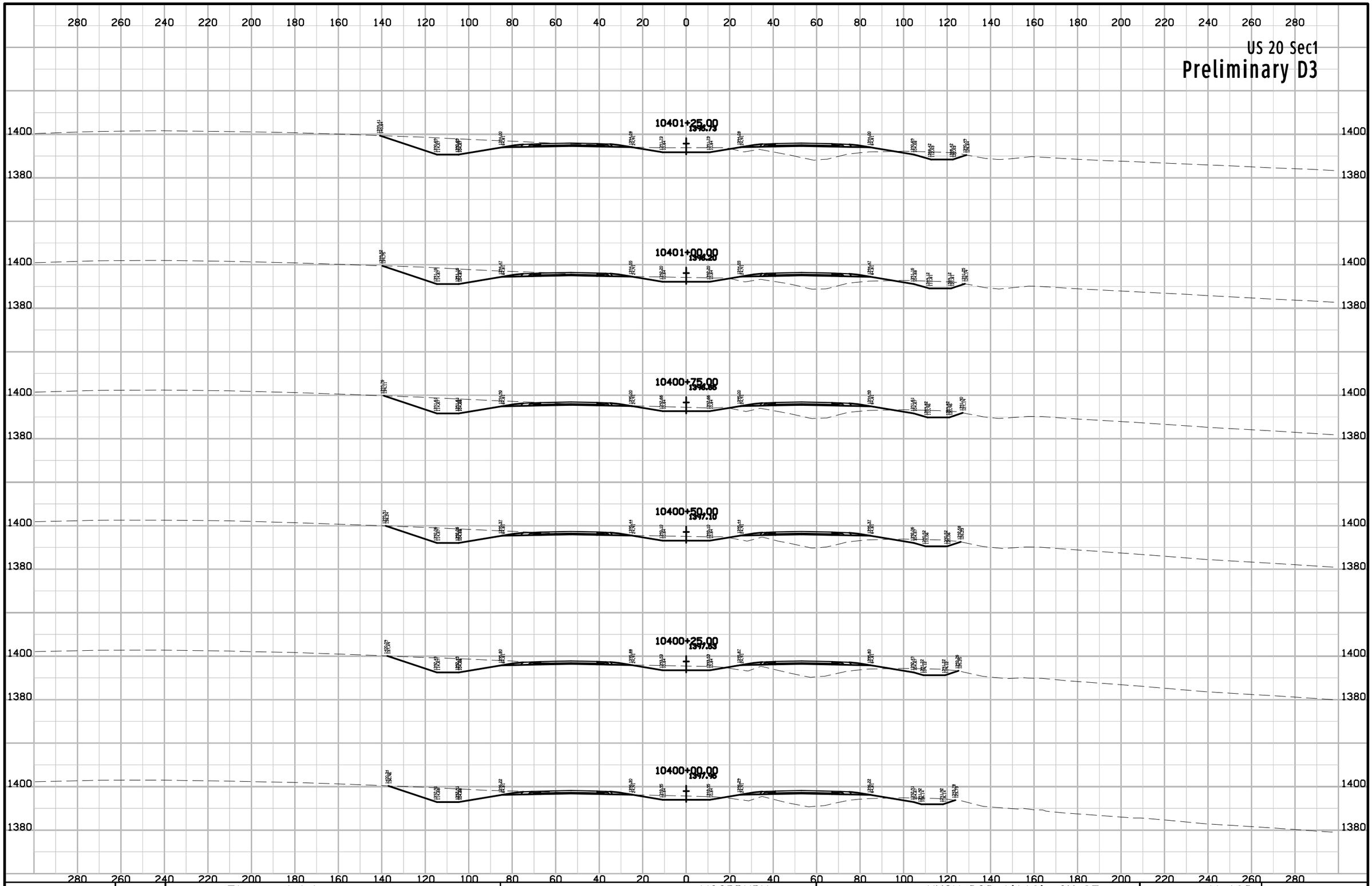


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.159

2:18:25 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

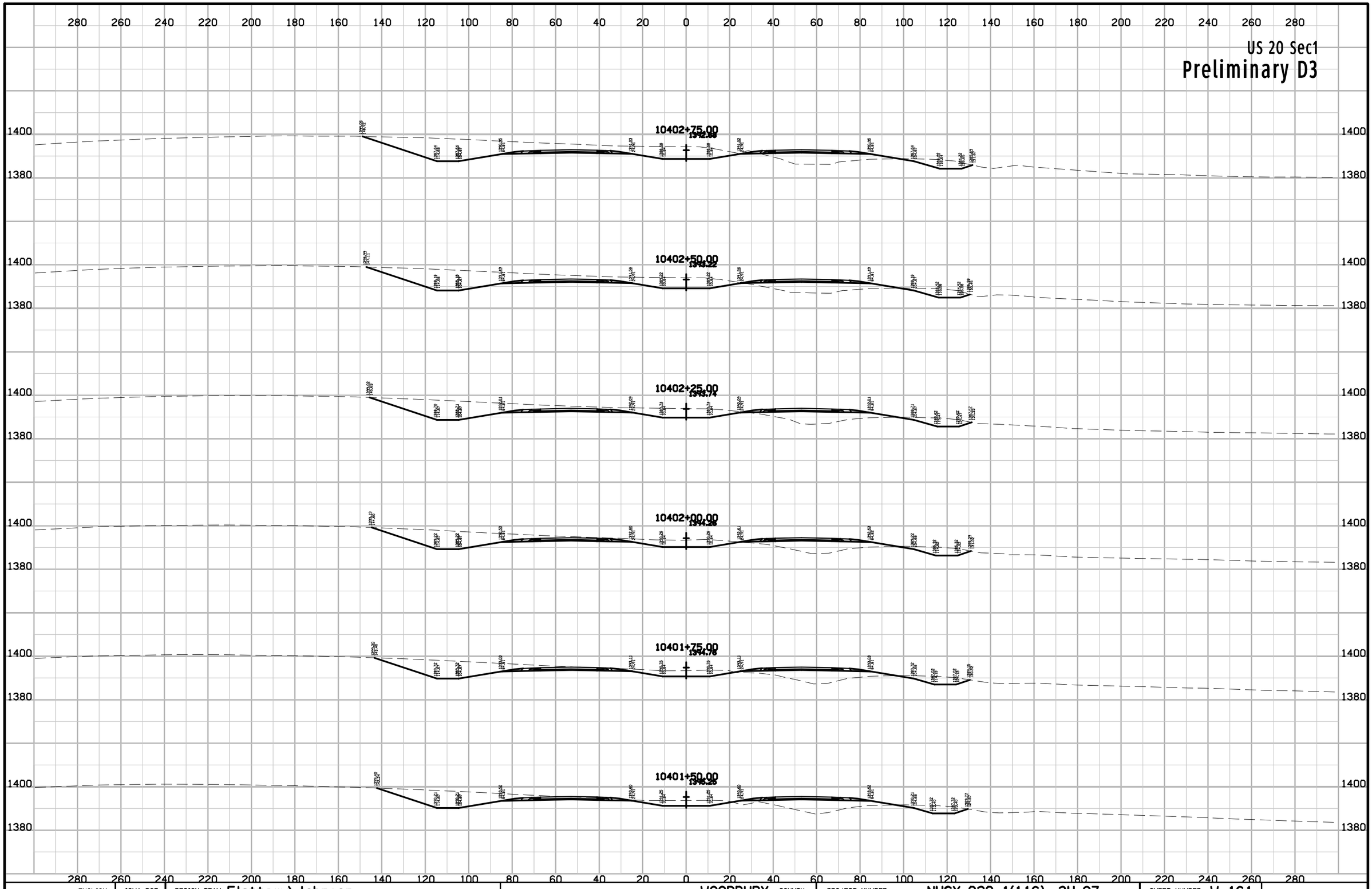


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.160

2:18:26 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

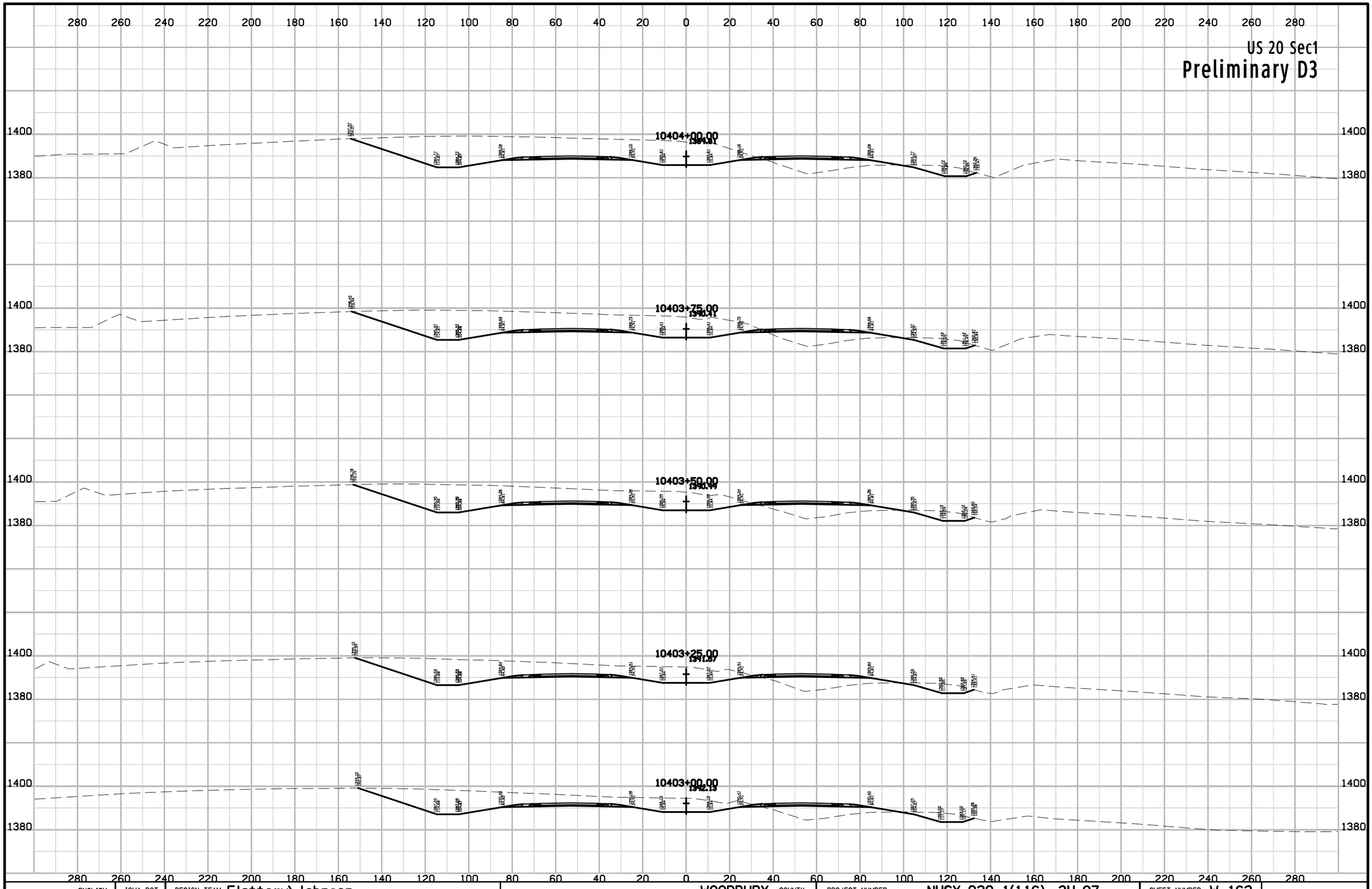


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.161

2:18:26 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3



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

2:18:27 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

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

10405+50.00
1386.17

10405+25.00
1386.24

10405+00.00
1387.30

10404+75.00
1387.44

10404+50.00
1388.58

10404+25.00
1389.20

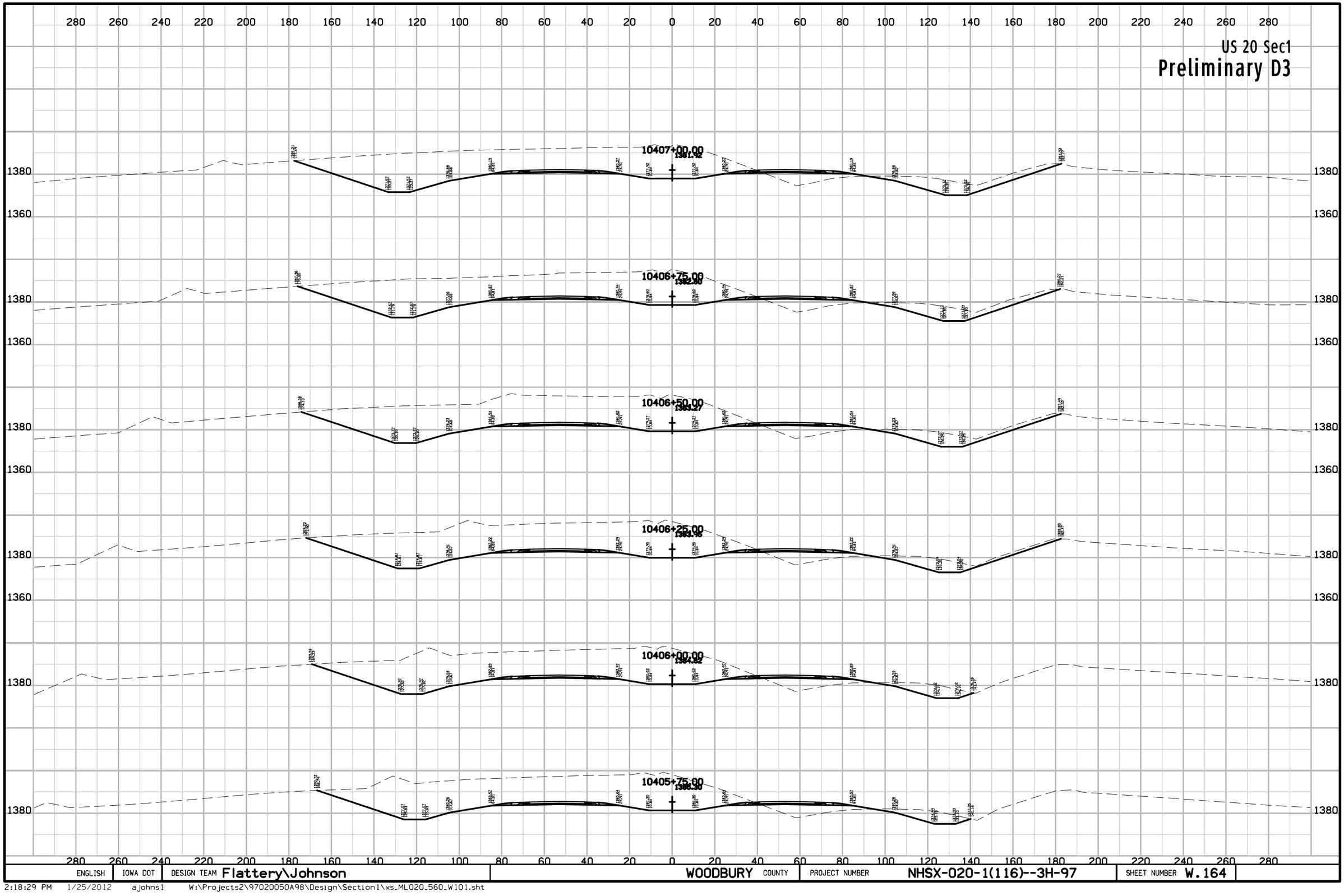
1400
1380

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

2:18:28 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

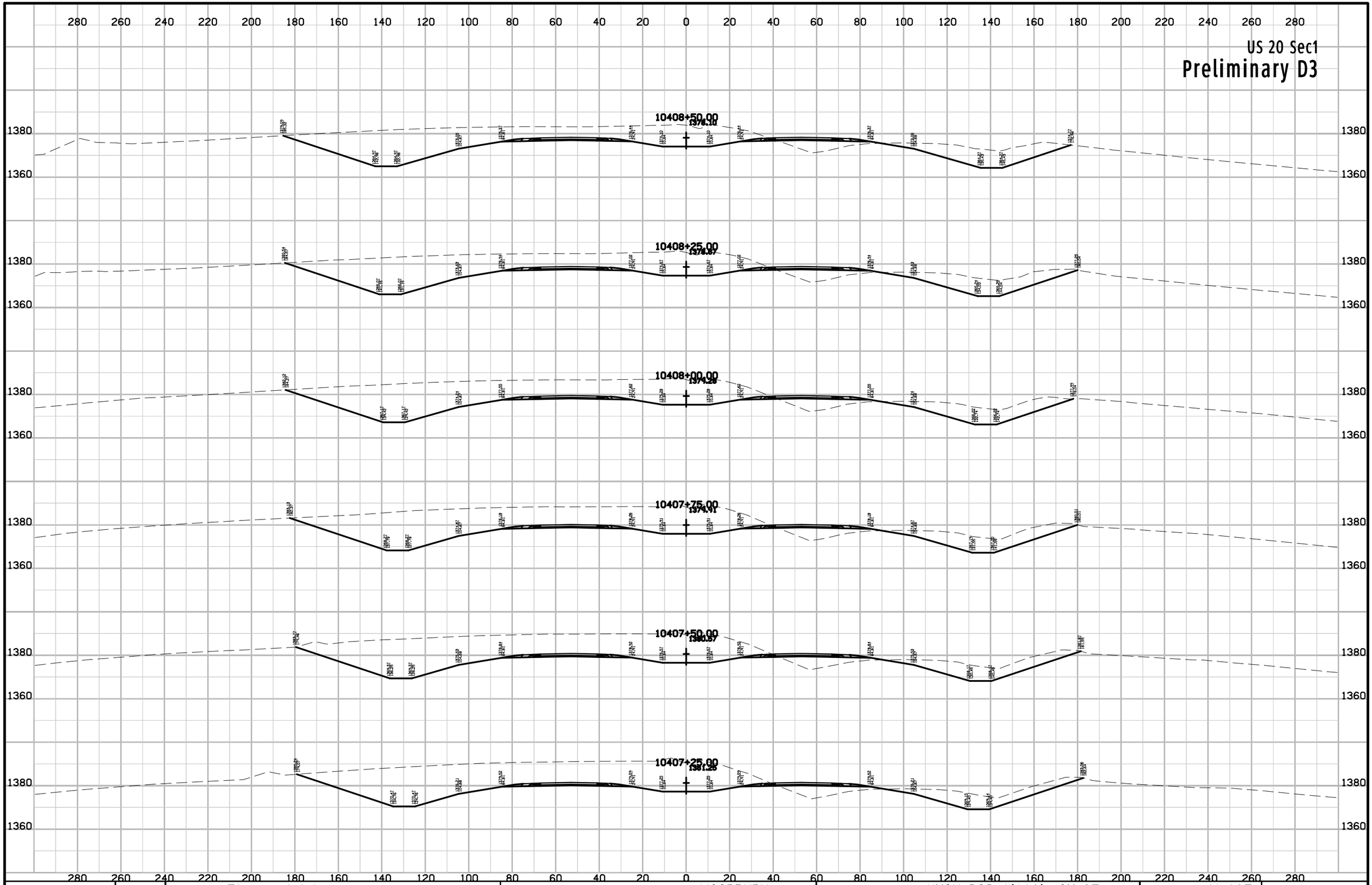


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.164

2:18:29 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

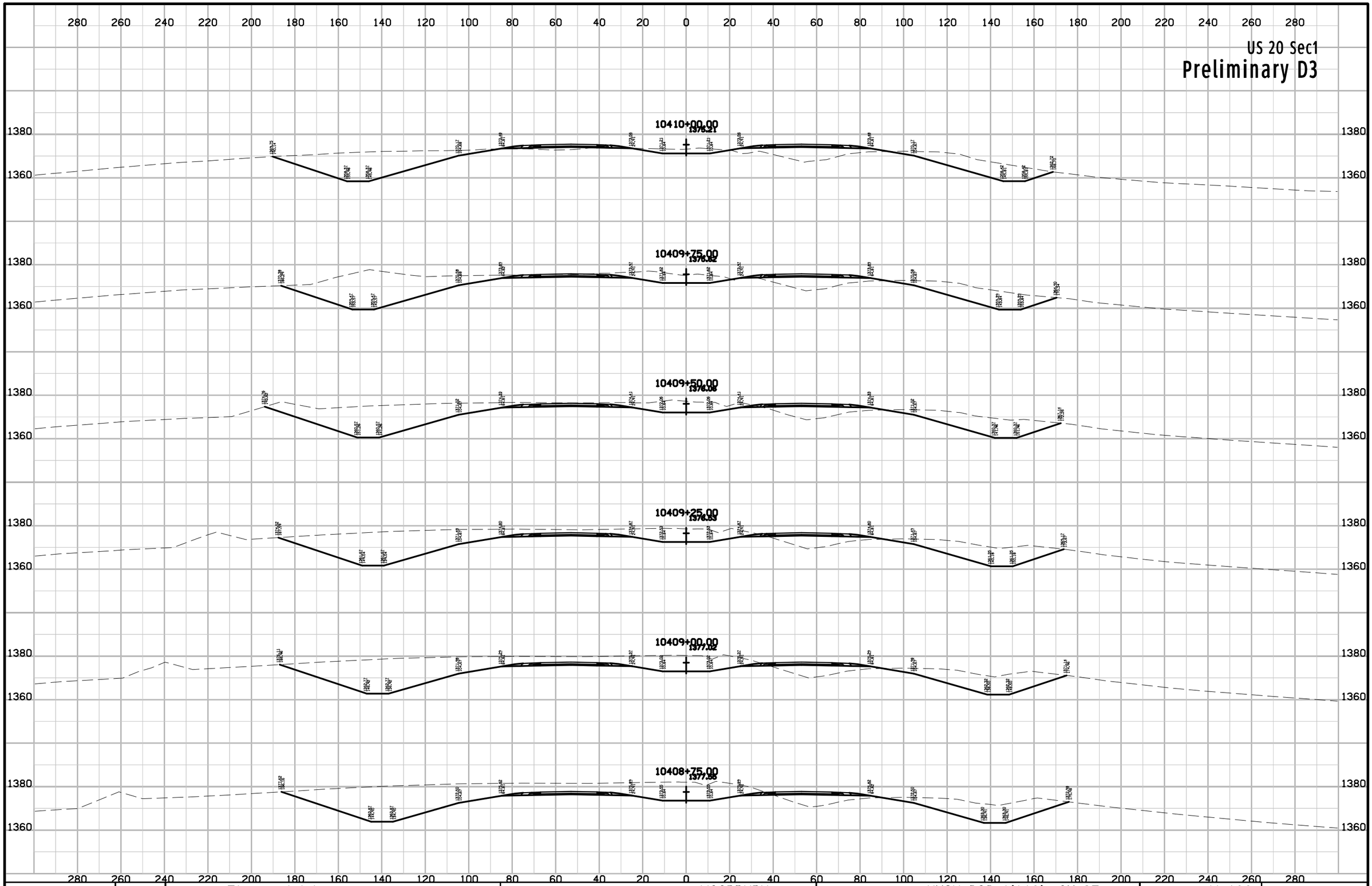


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.165

2:18:30 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

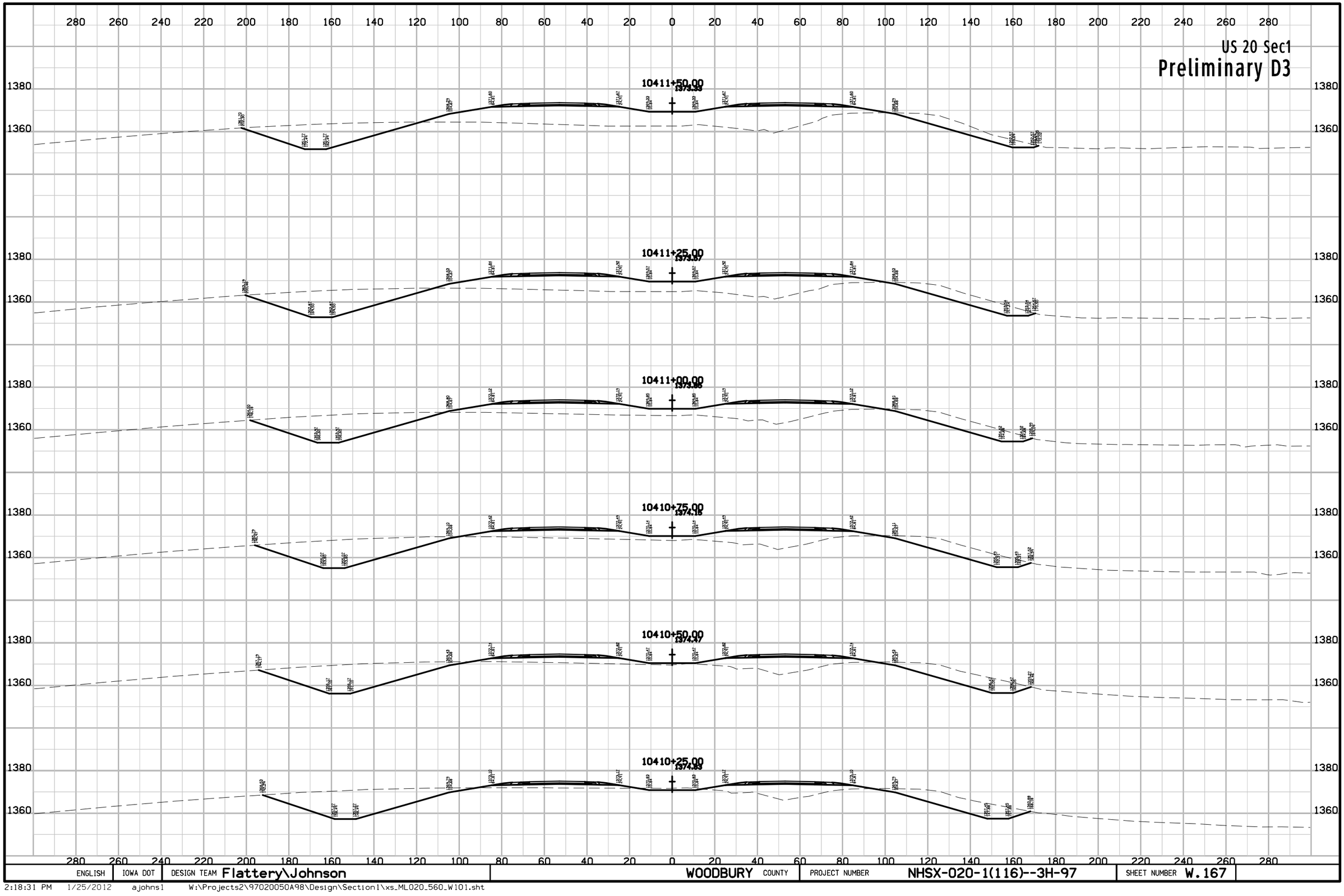


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.166

2:18:31 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3



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

2:18:31 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

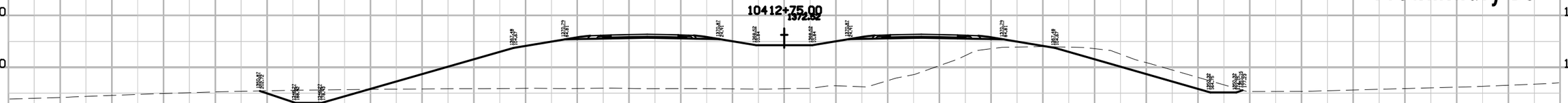
US 20 Sec1

Preliminary D3

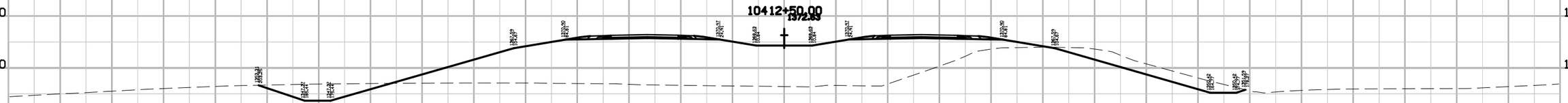
280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

1380
1360

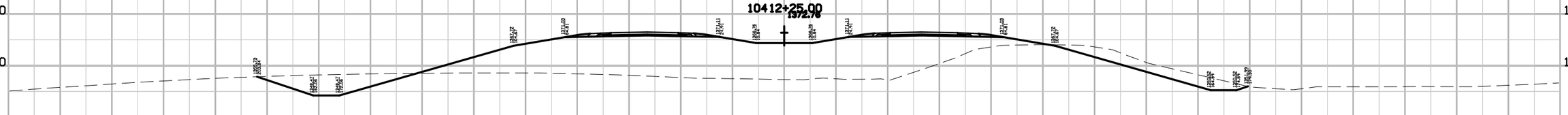
10412+75.00
1372.52



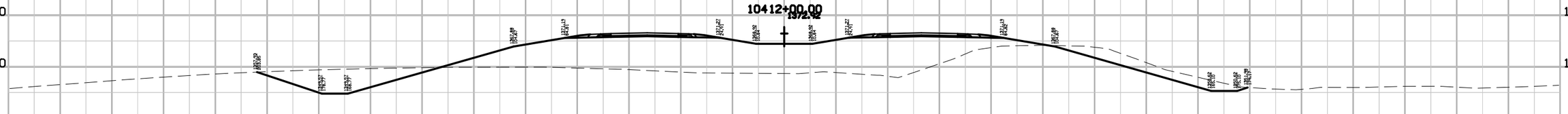
10412+50.00
1372.89



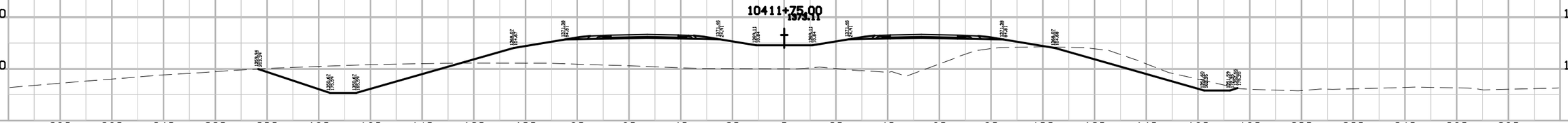
10412+25.00
1372.78



10412+00.00
1372.12



10411+75.00
1373.11

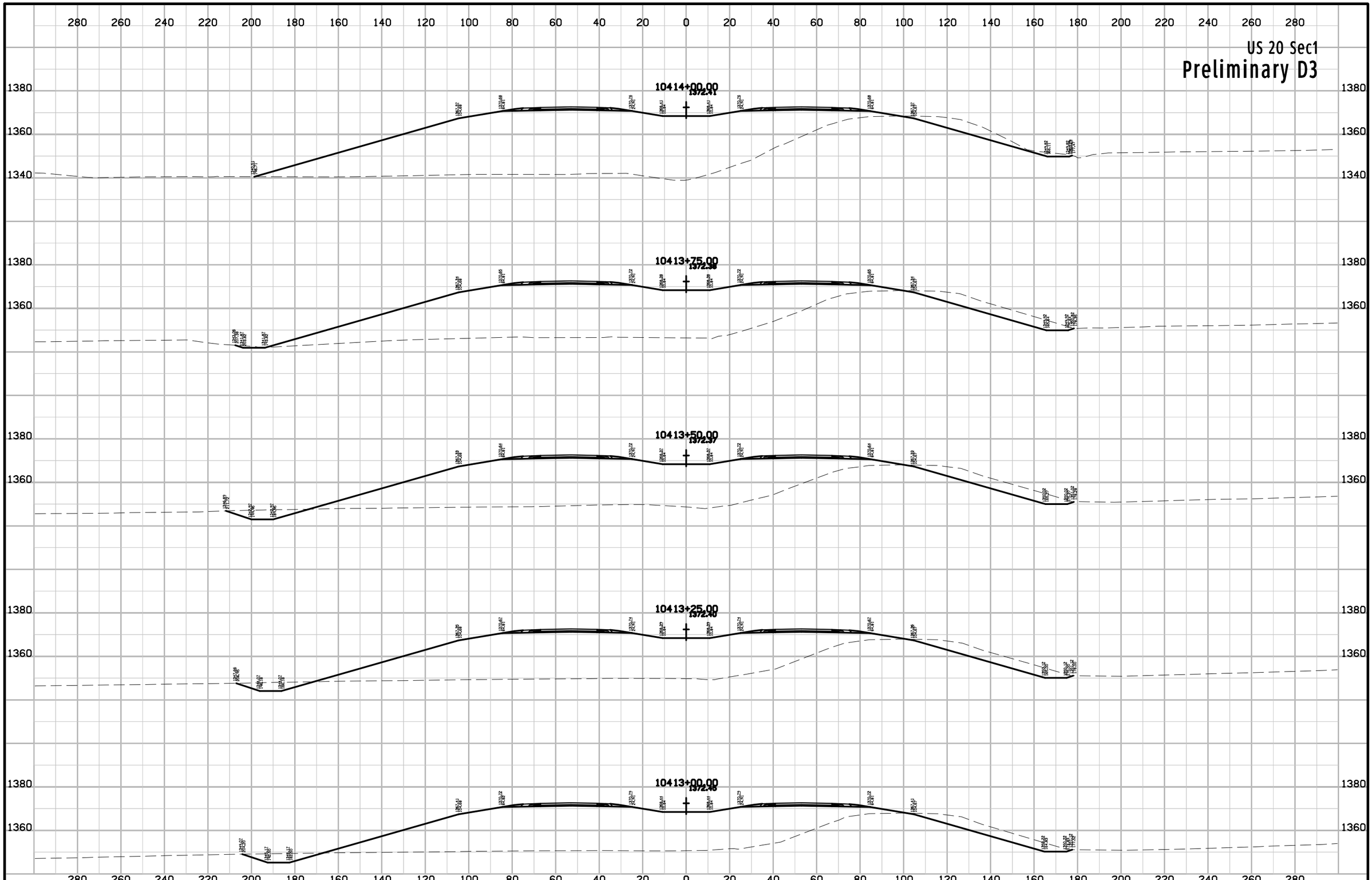


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.168

2:18:32 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

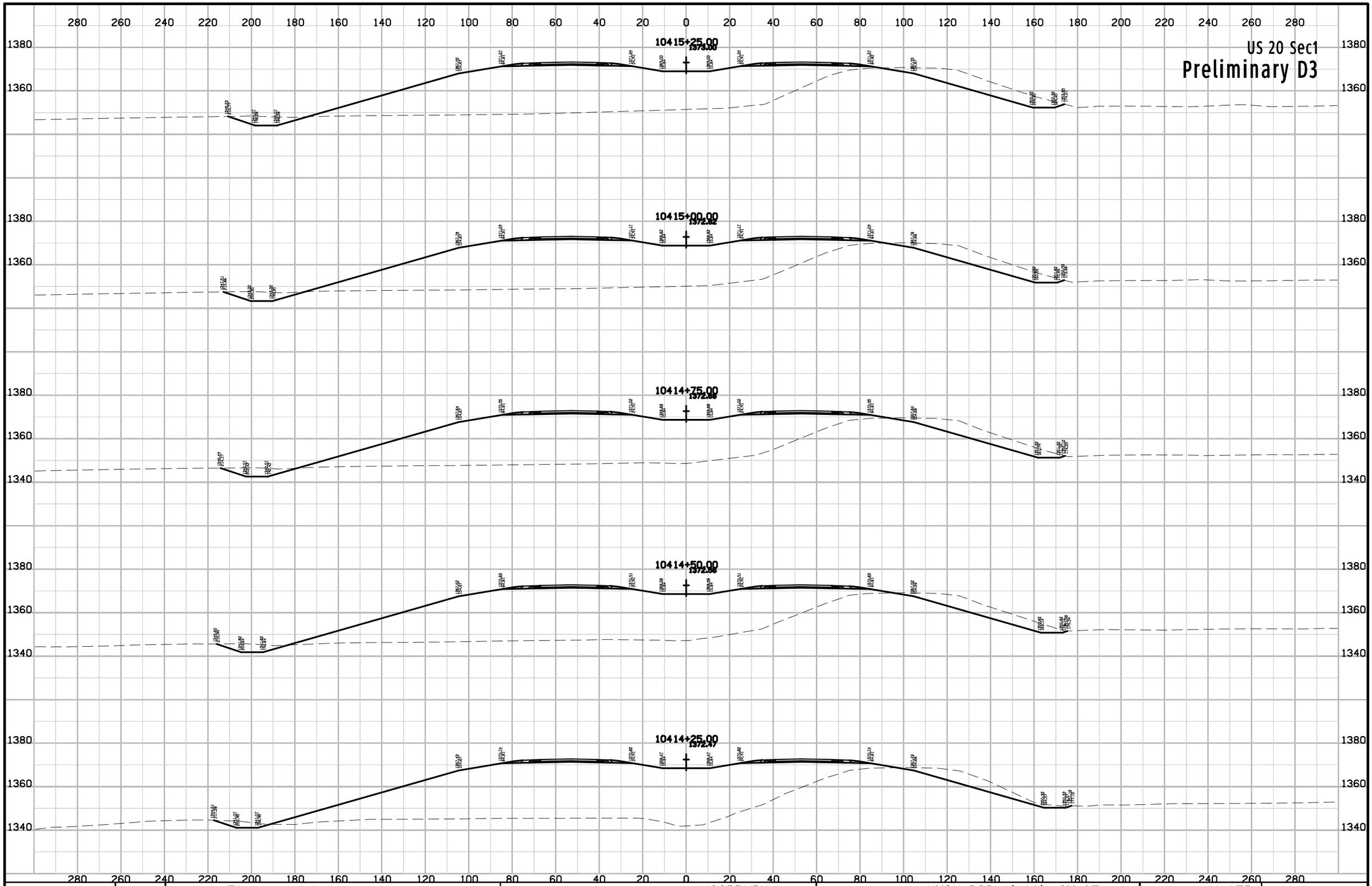


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.169

2:18:33 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

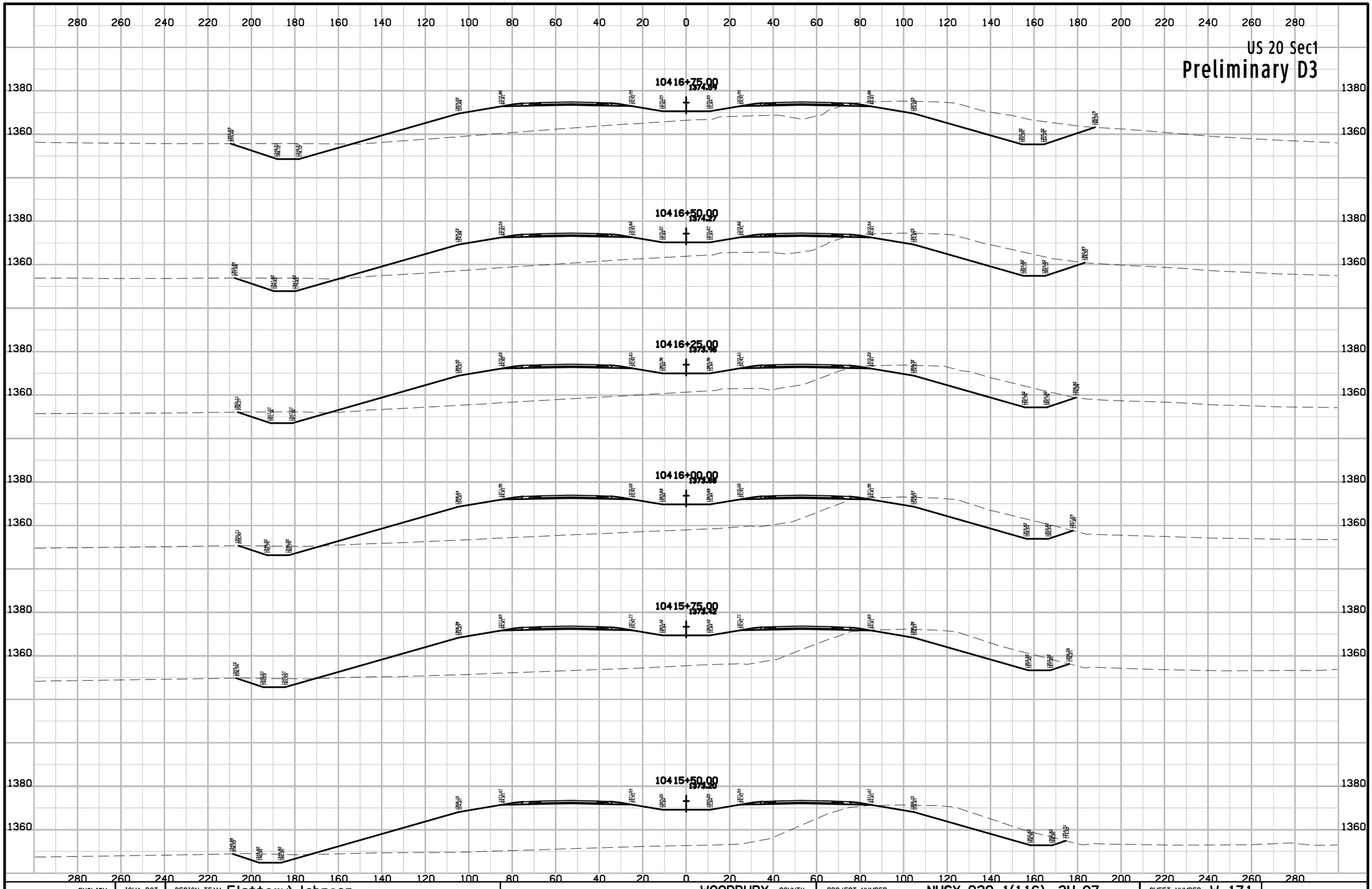


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.170

2:18:34 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

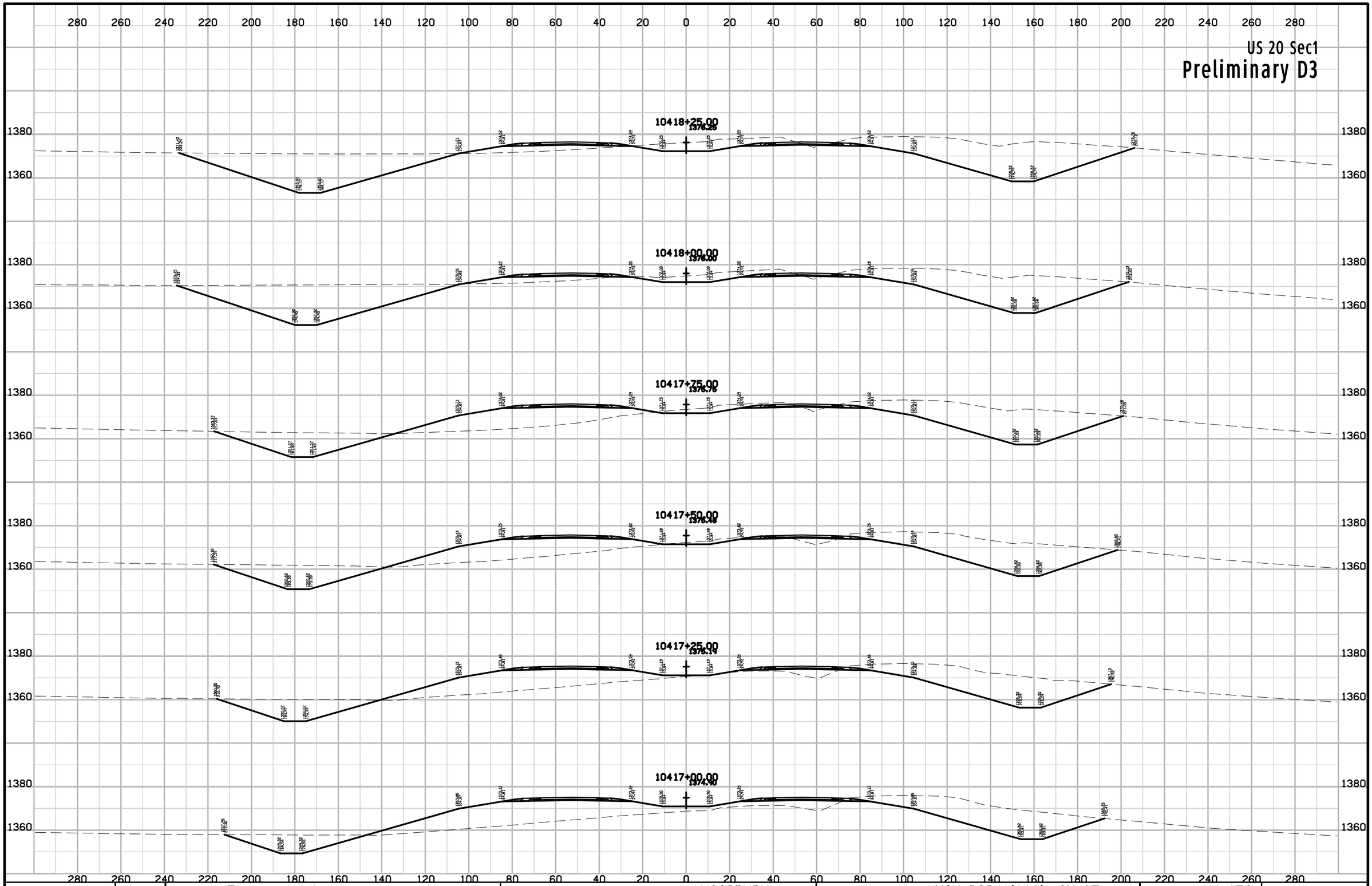


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.171

2:18:35 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

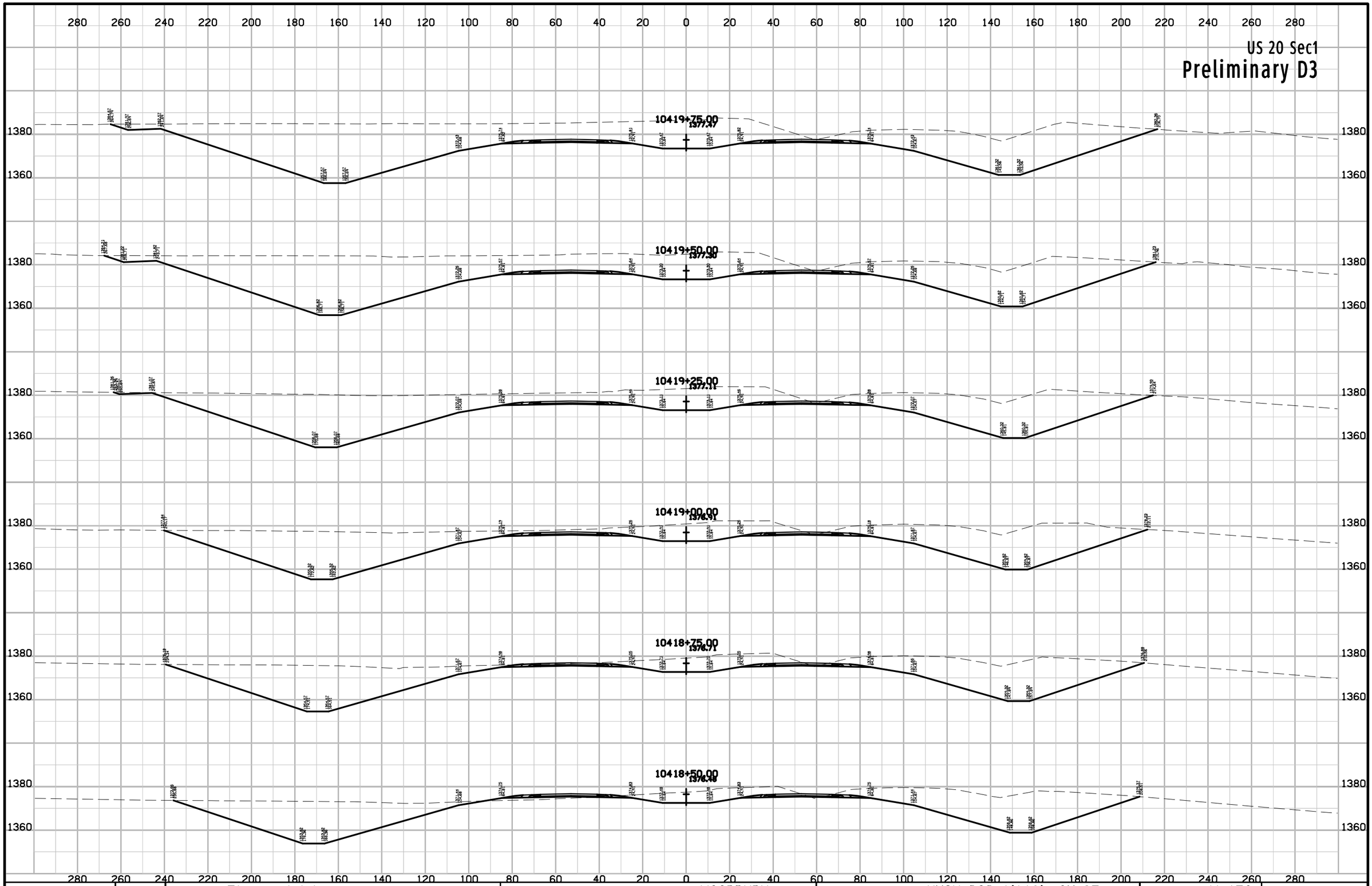


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.172

2:18:36 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

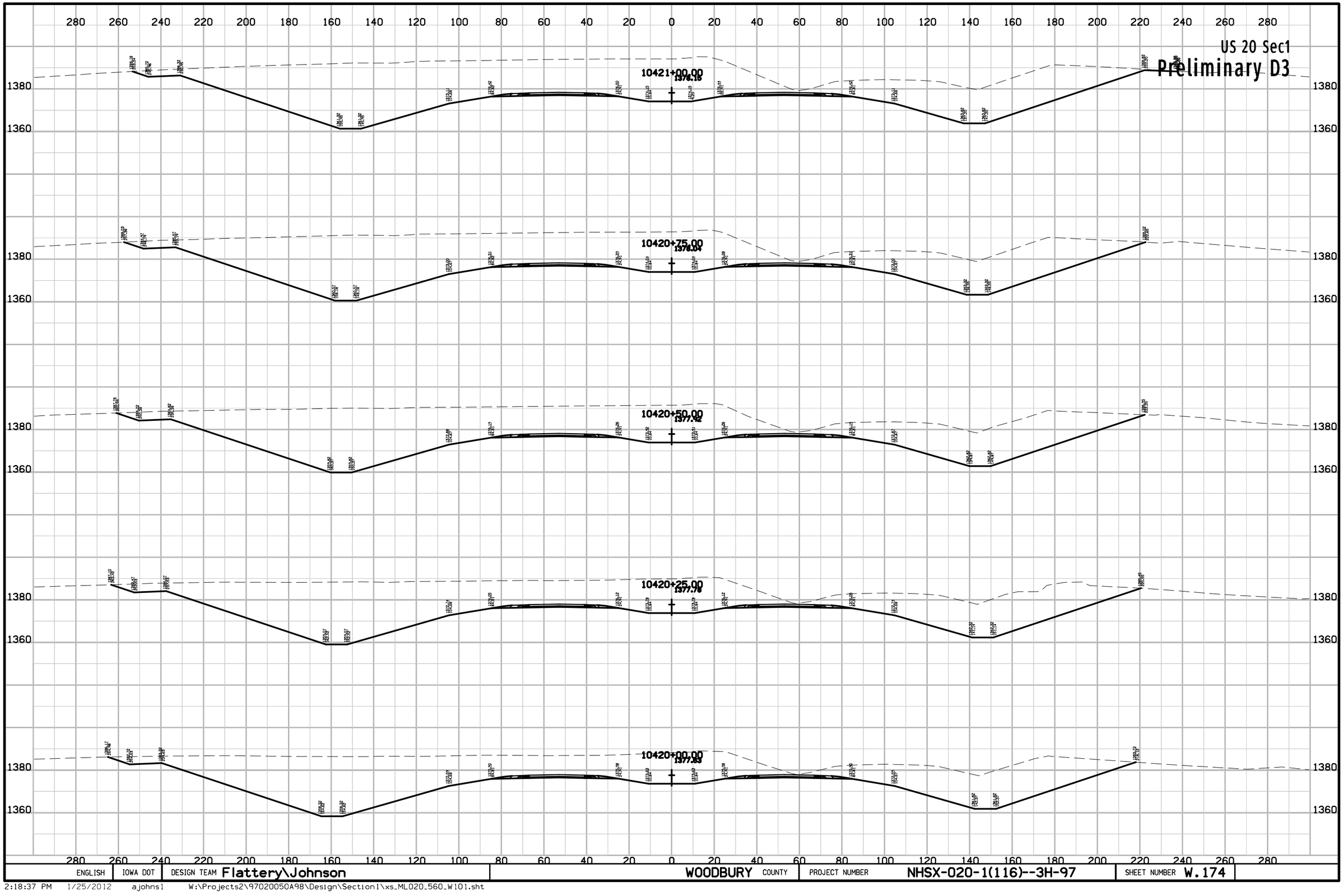


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.173

2:18:37 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

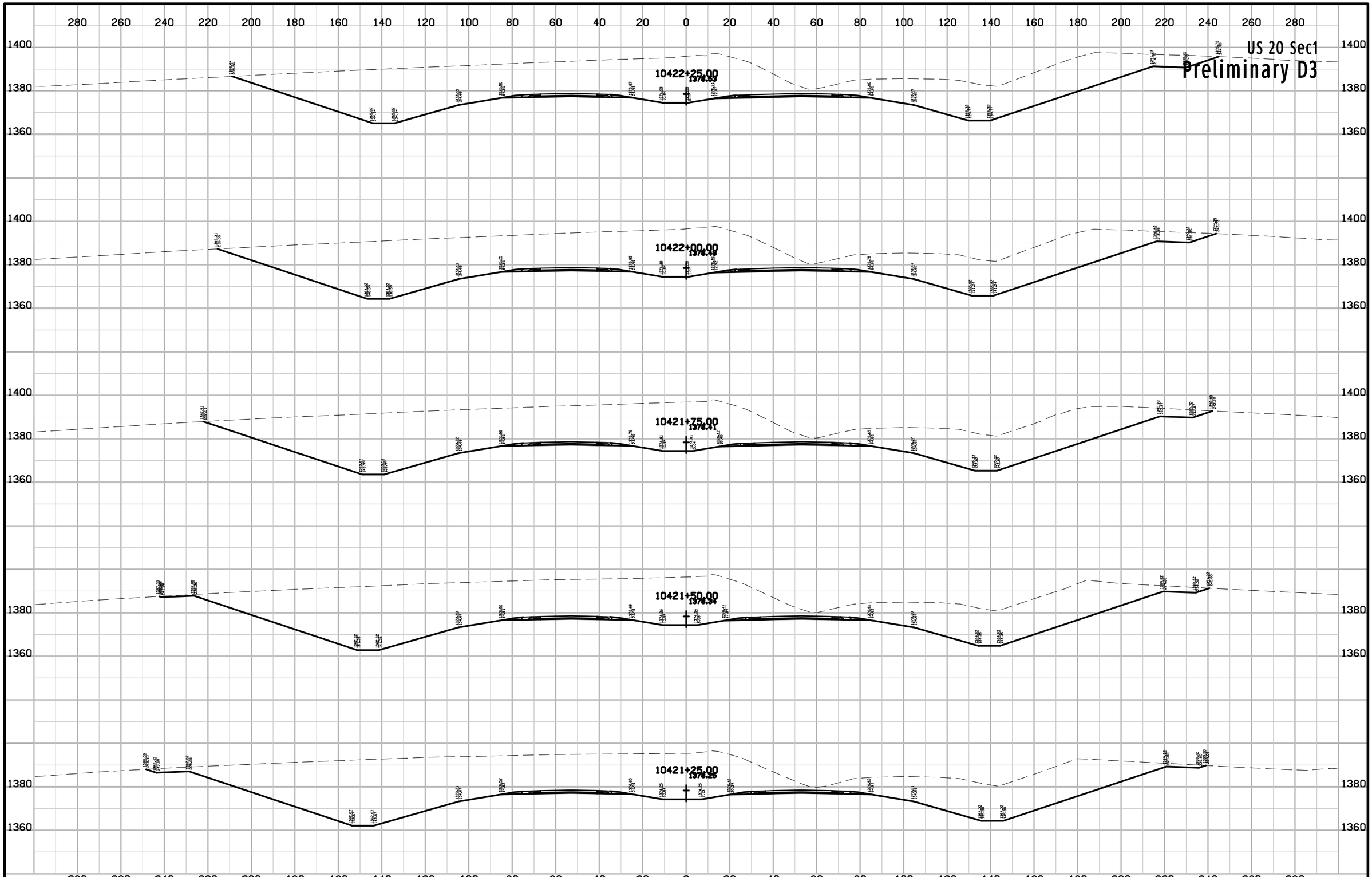


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.174

2:18:37 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

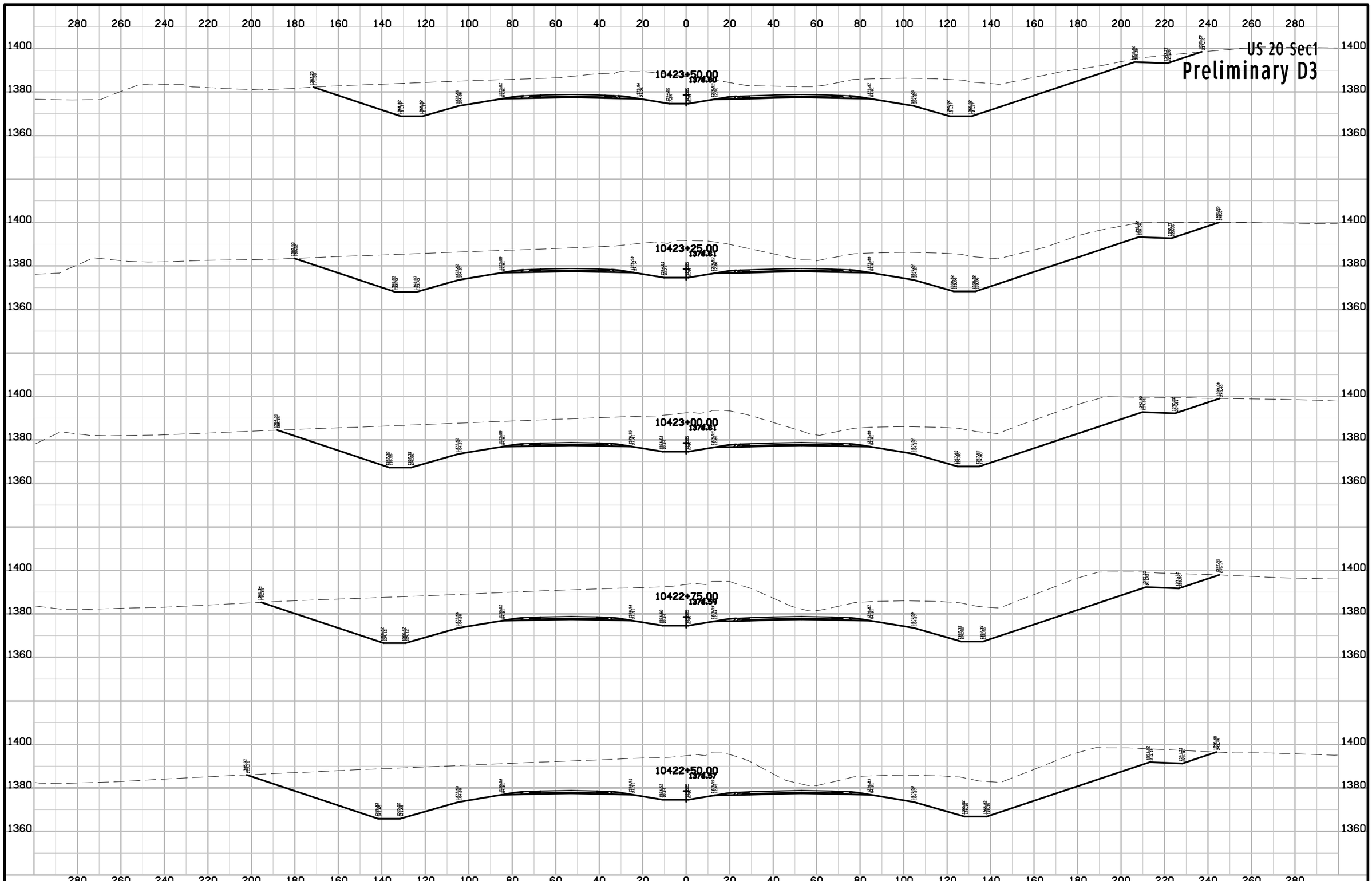


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.175

2:18:38 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

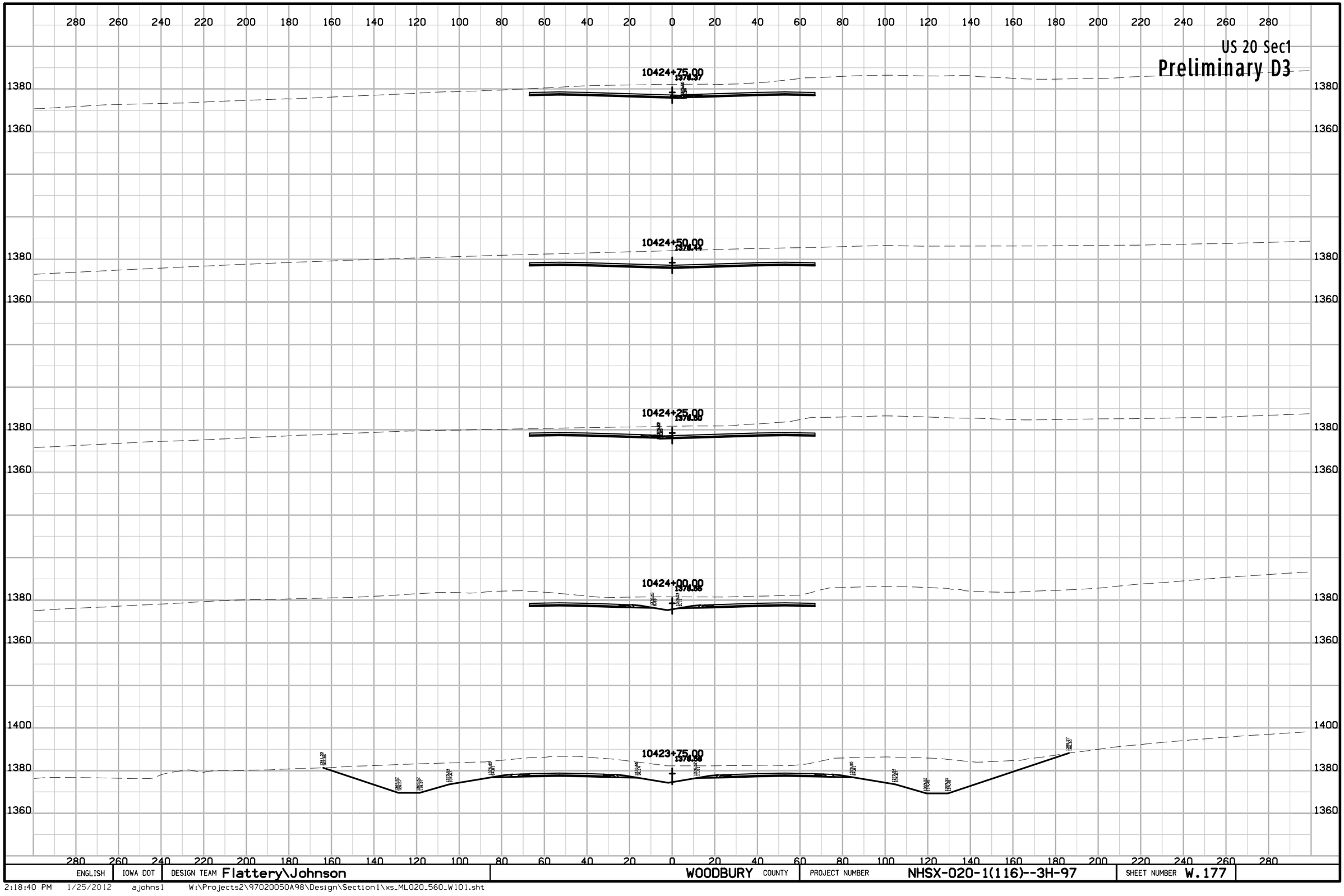


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.176

2:18:39 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

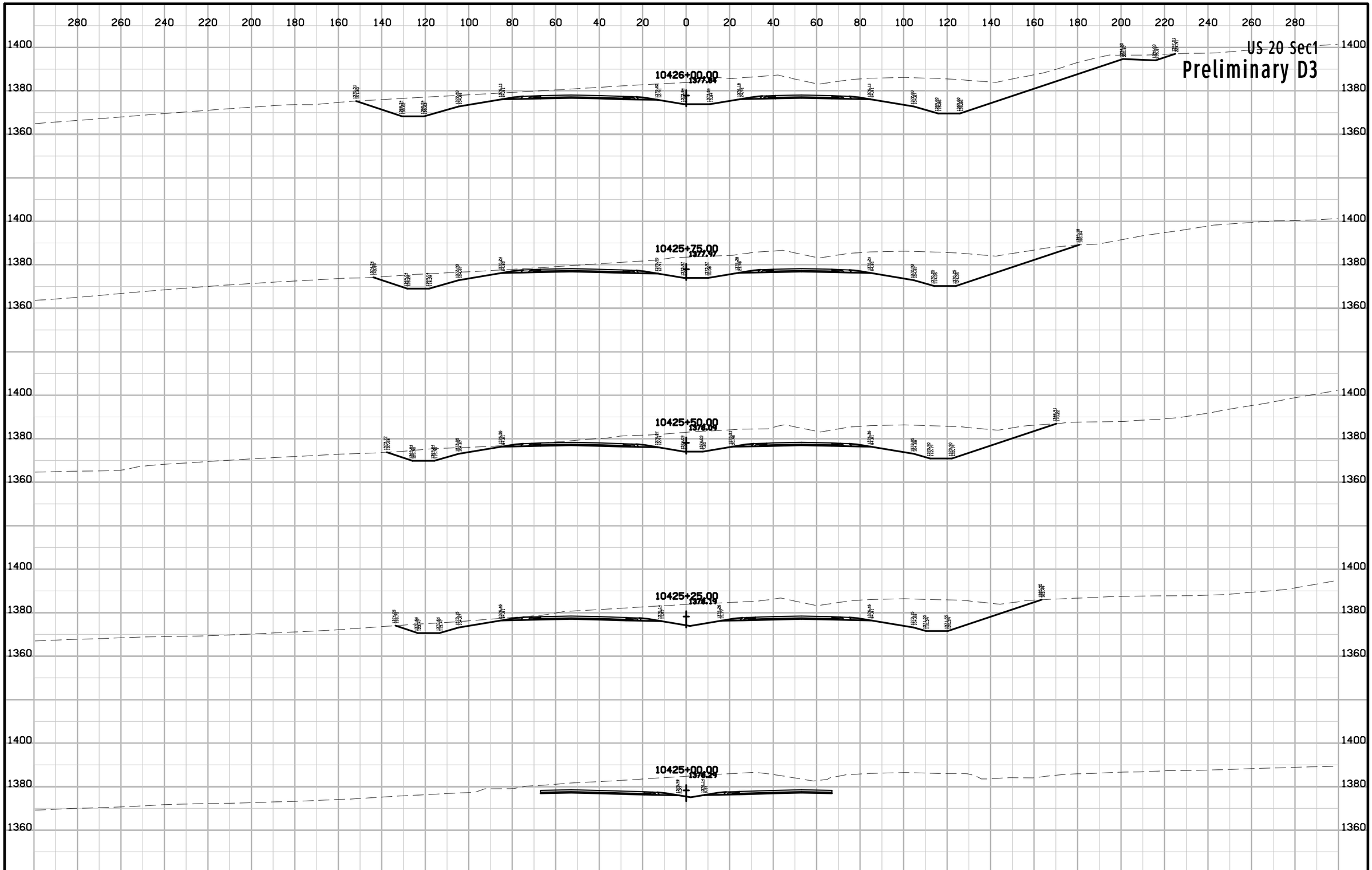


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.177

2:18:40 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

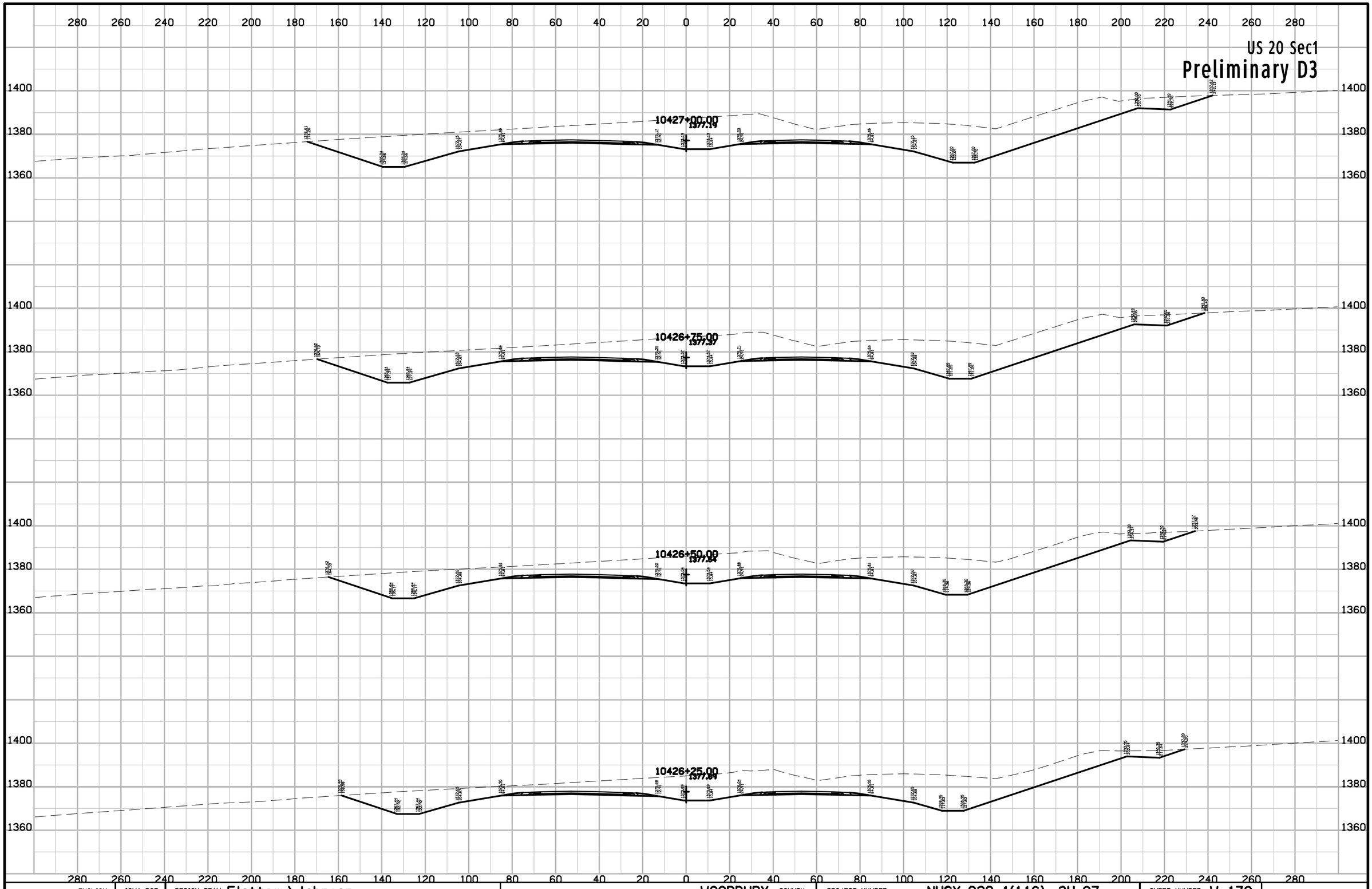


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.178

2:18:41 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

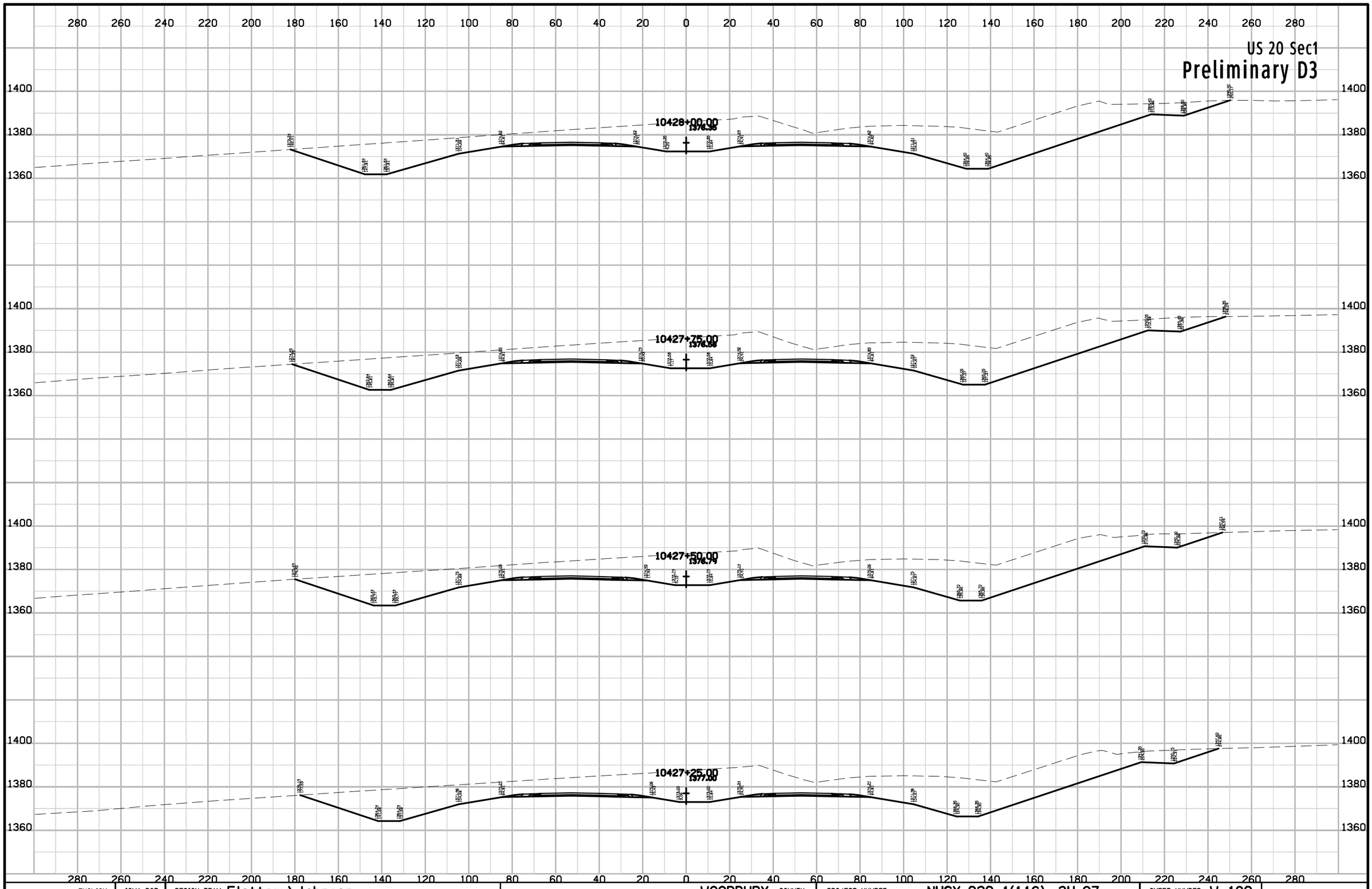


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.179

2:18:42 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

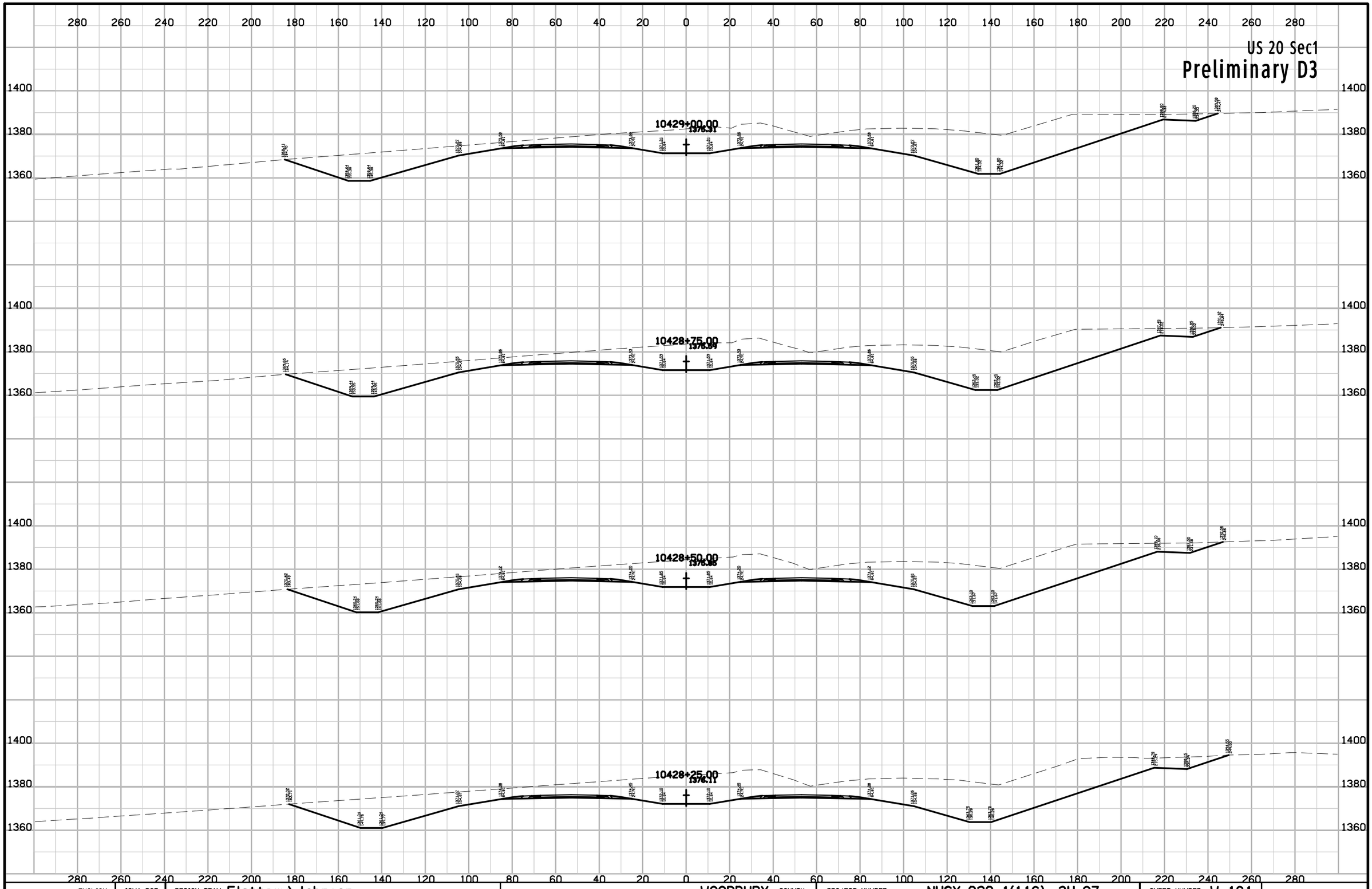


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.180

2:18:42 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

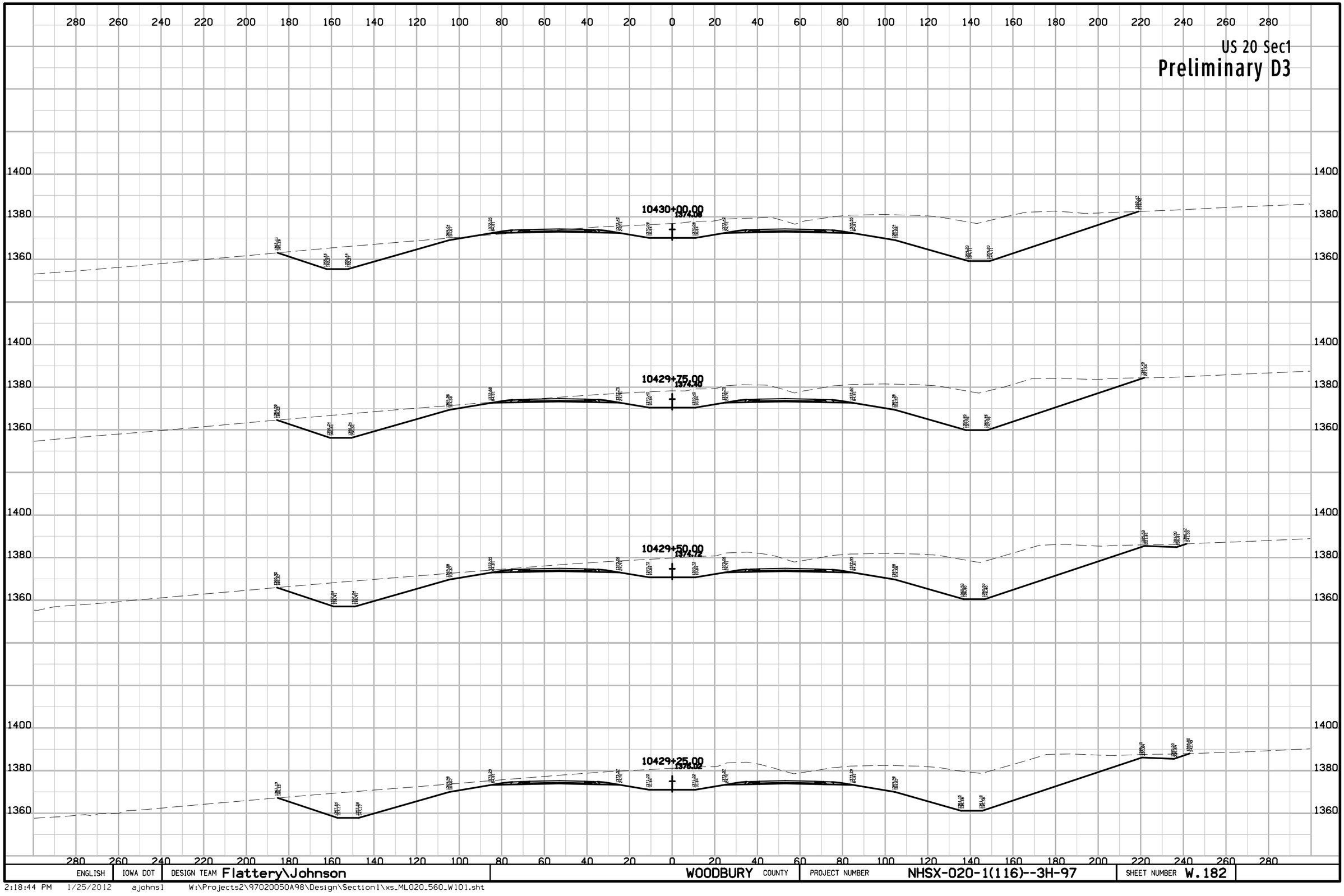


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.181

2:18:43 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

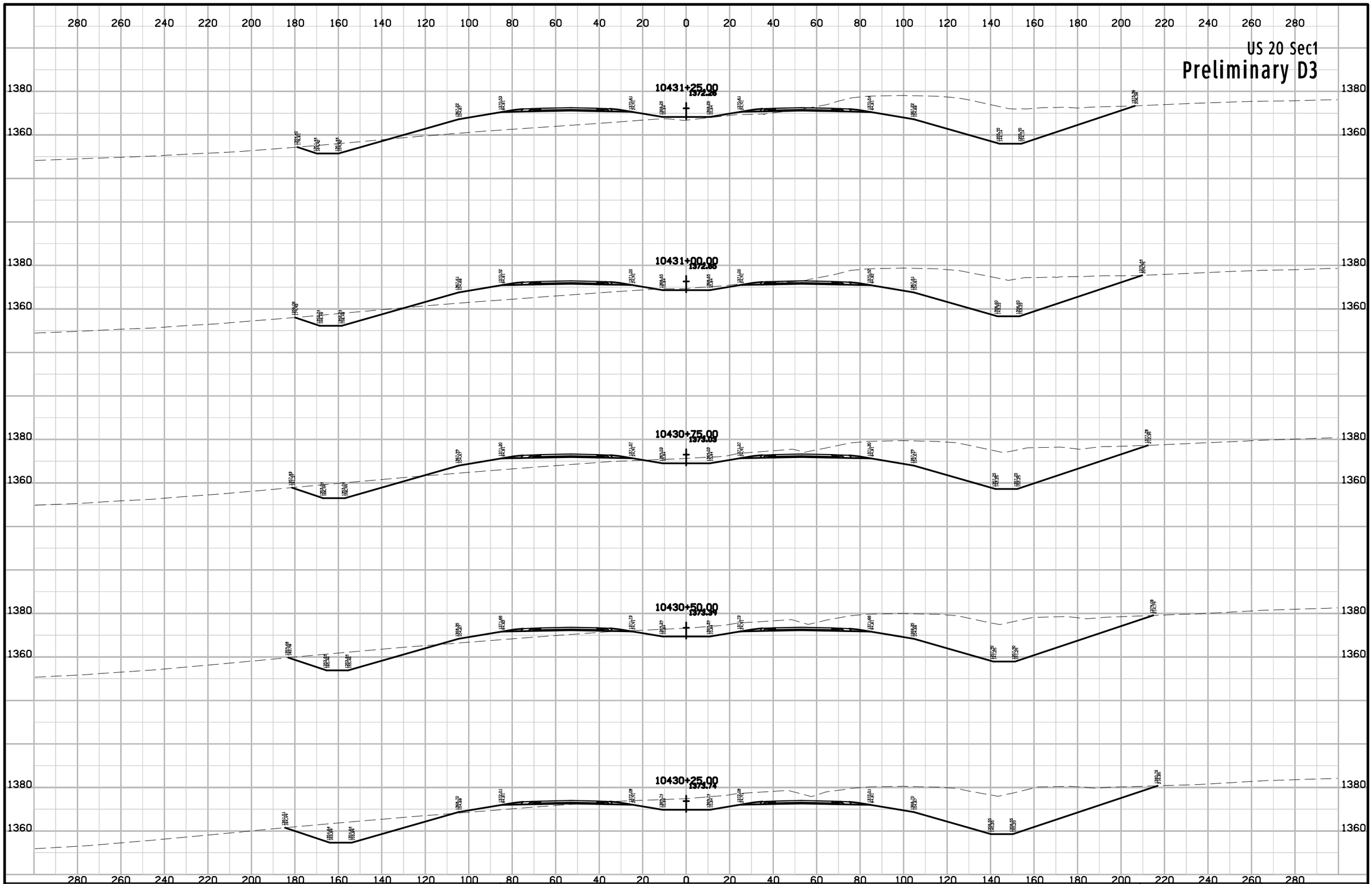


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.182

2:18:44 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

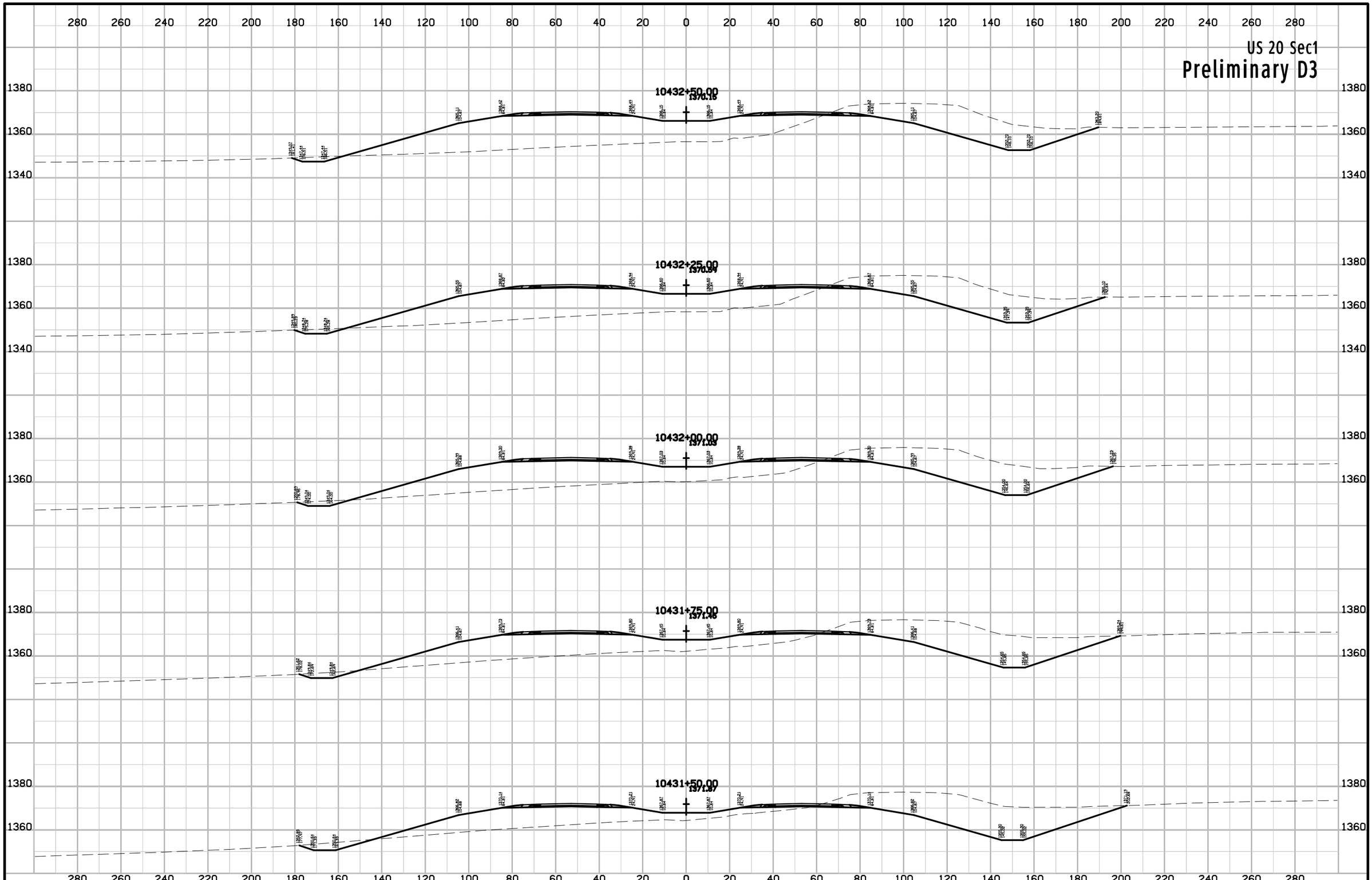


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.183	

2:18:45 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

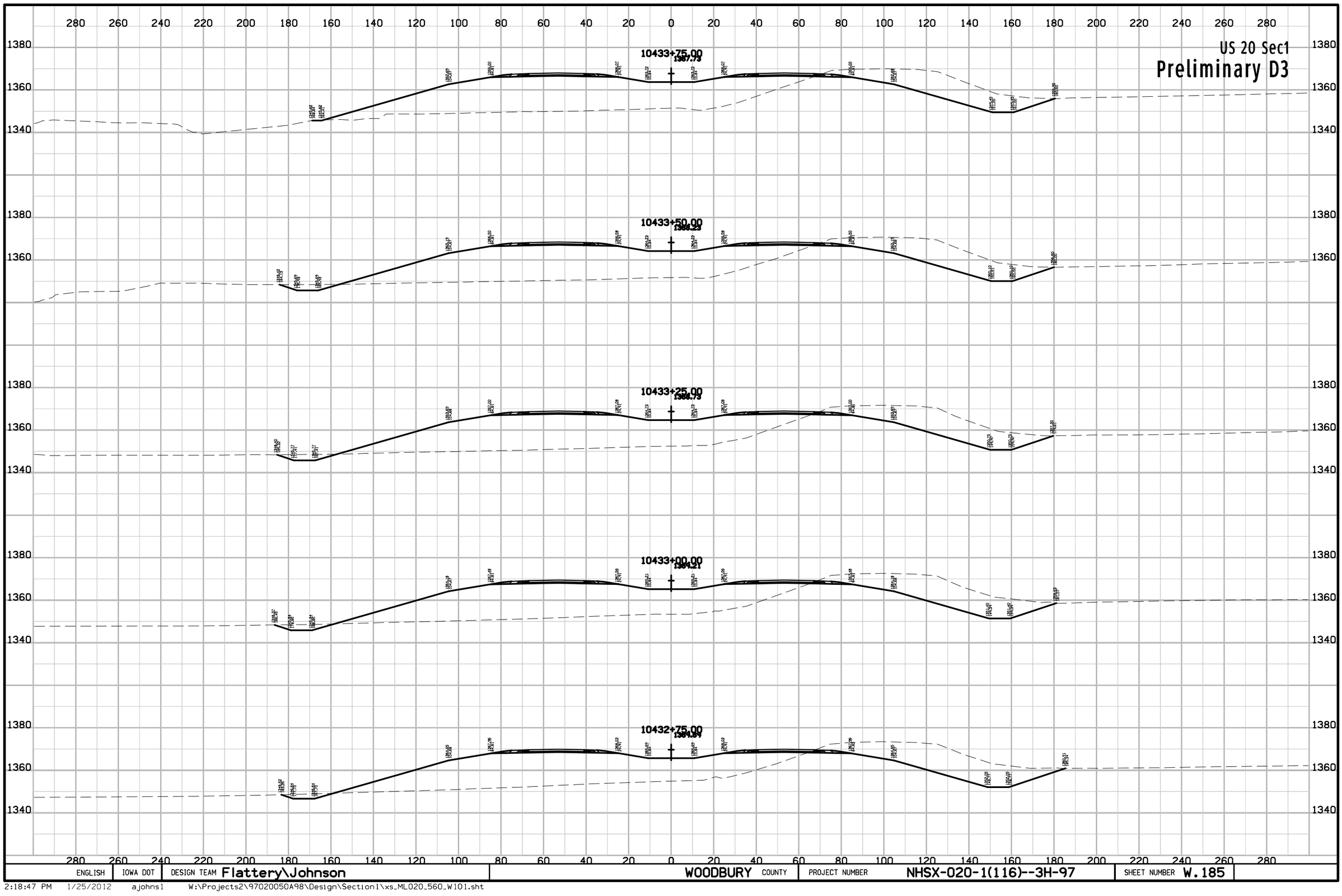


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.184

2:18:46 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3



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

2:18:47 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

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
1366.67

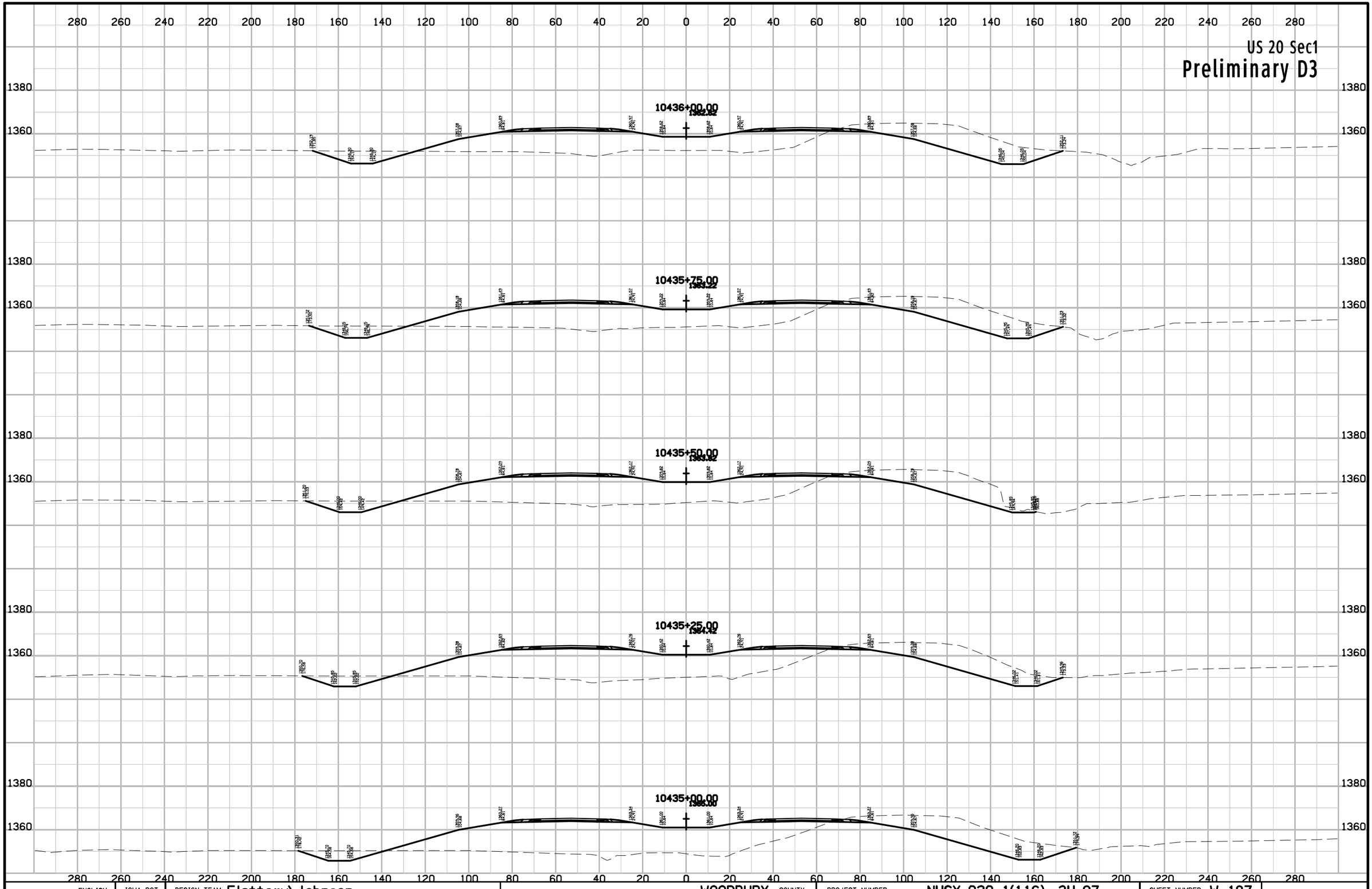
10434+00.00
1367.20

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

2:18:47 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

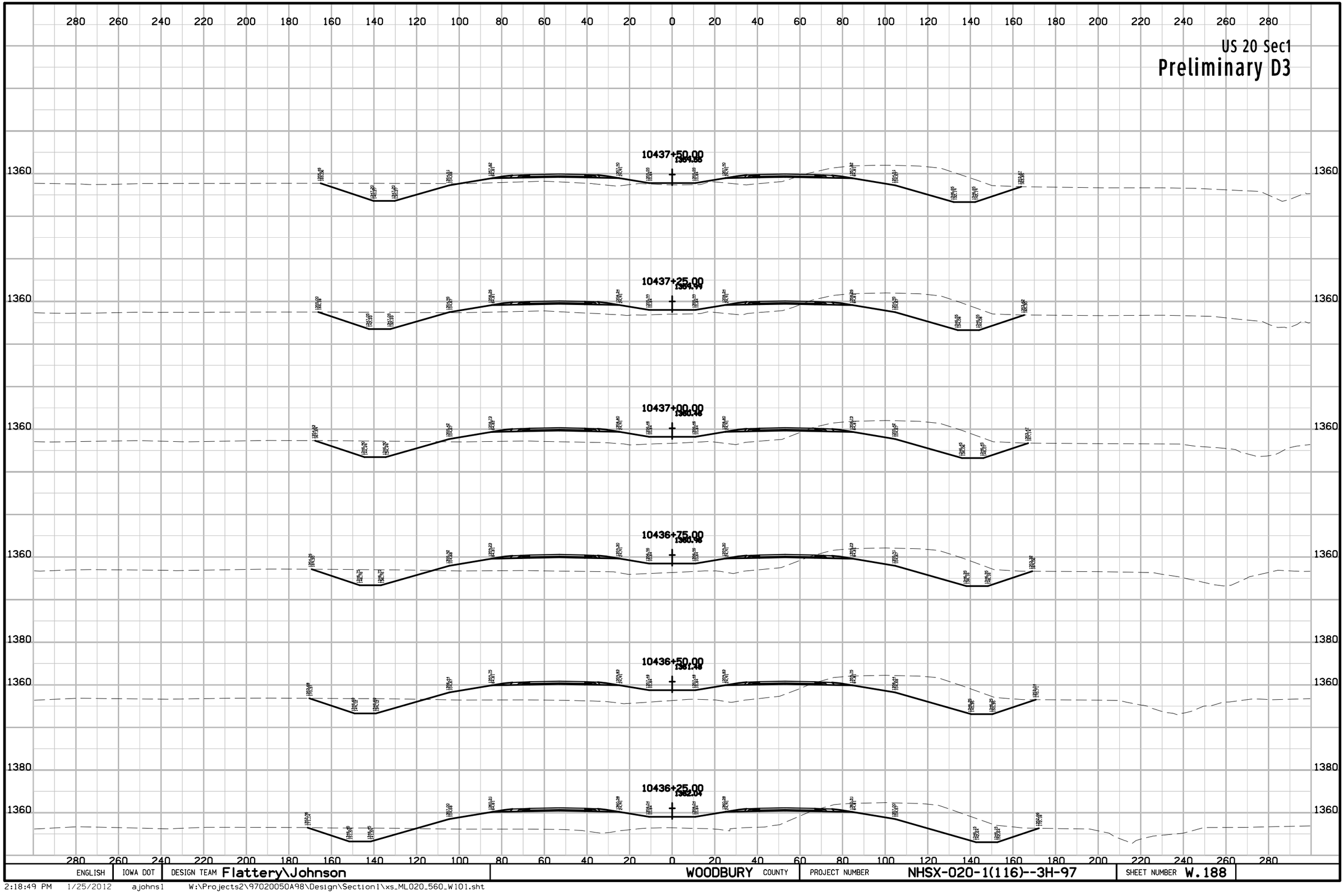


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.187	

2:18:48 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3



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

2:18:49 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

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

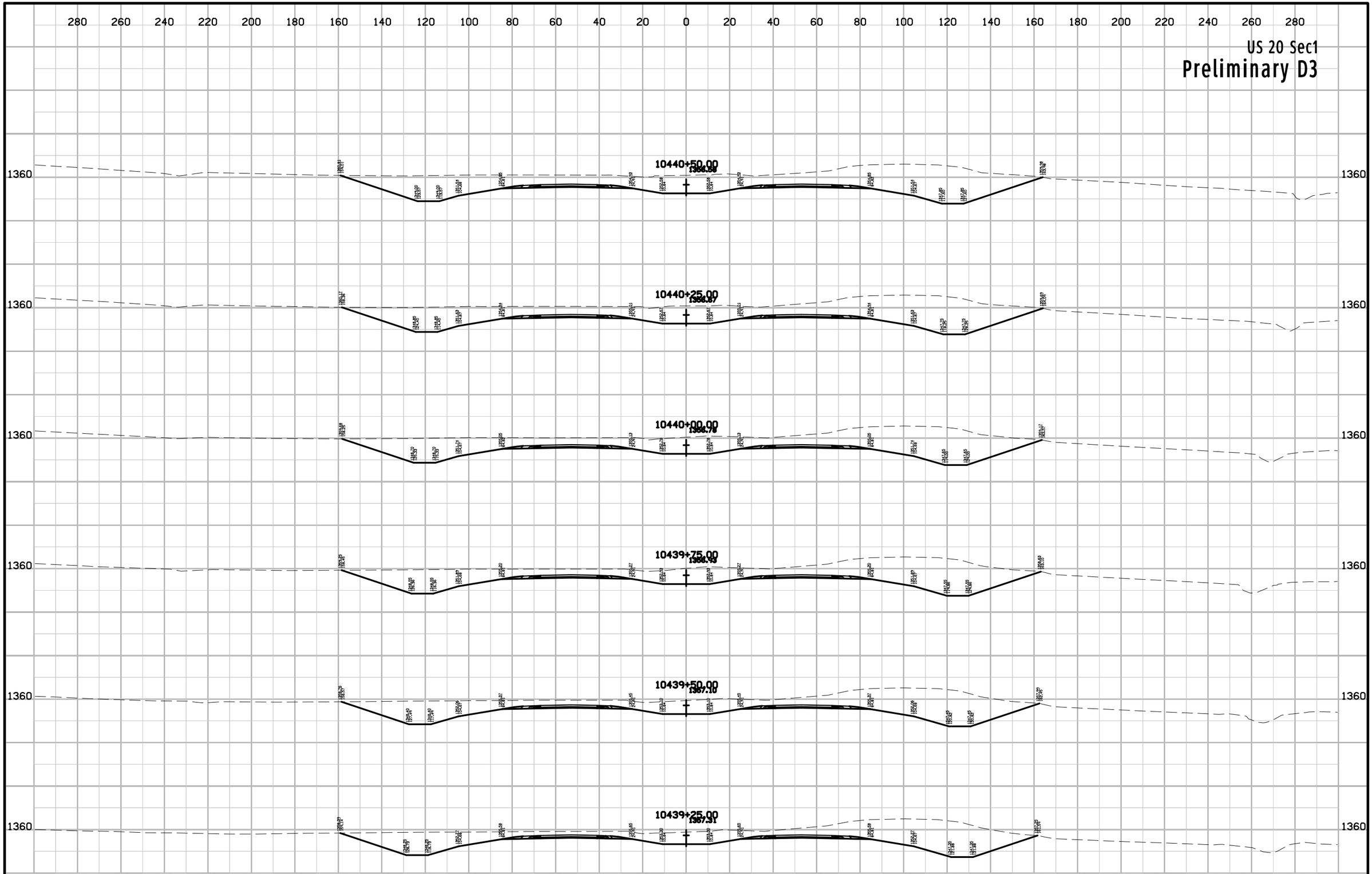
1360

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

2:18:50 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

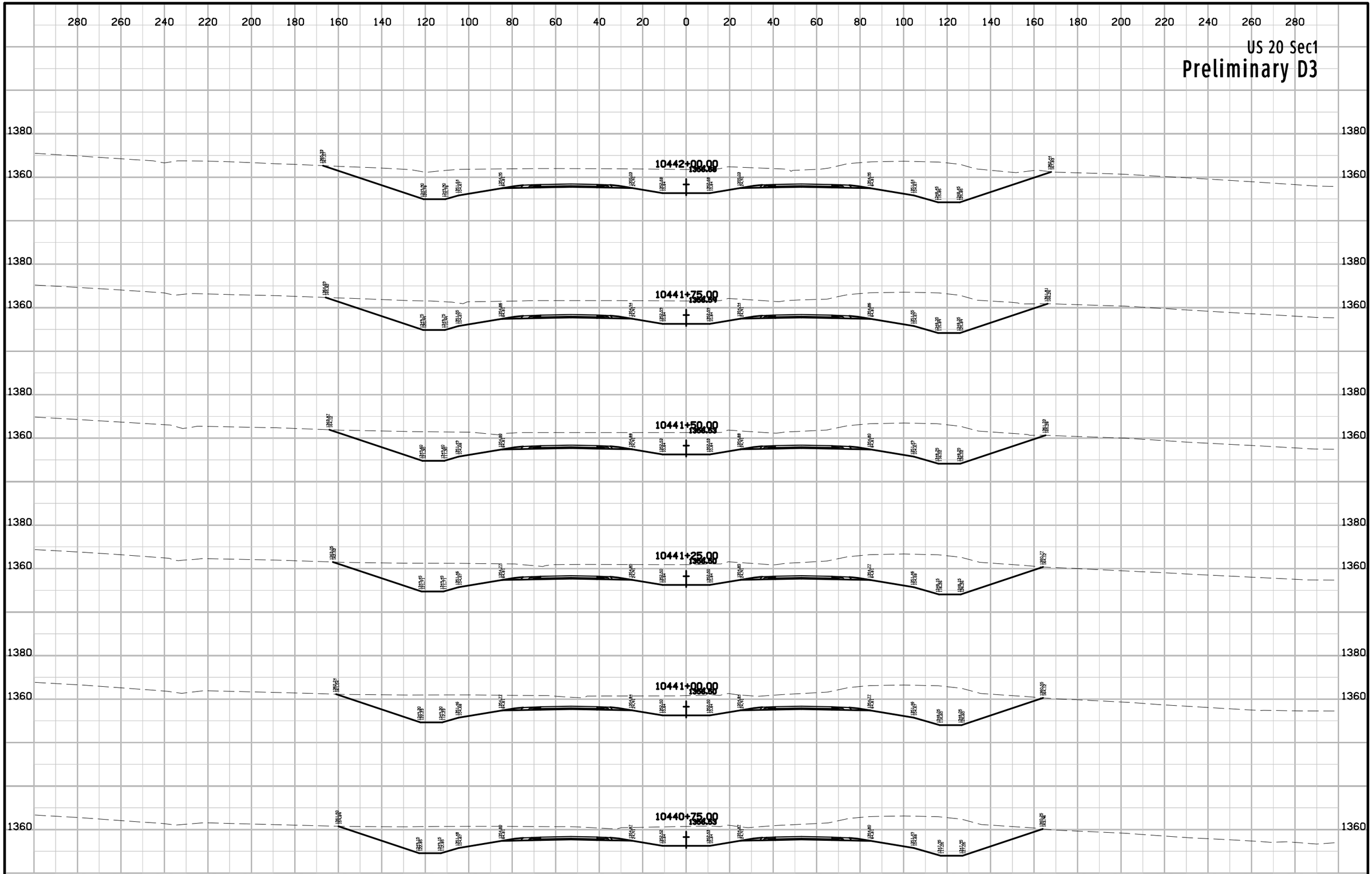


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.190

2:18:51 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

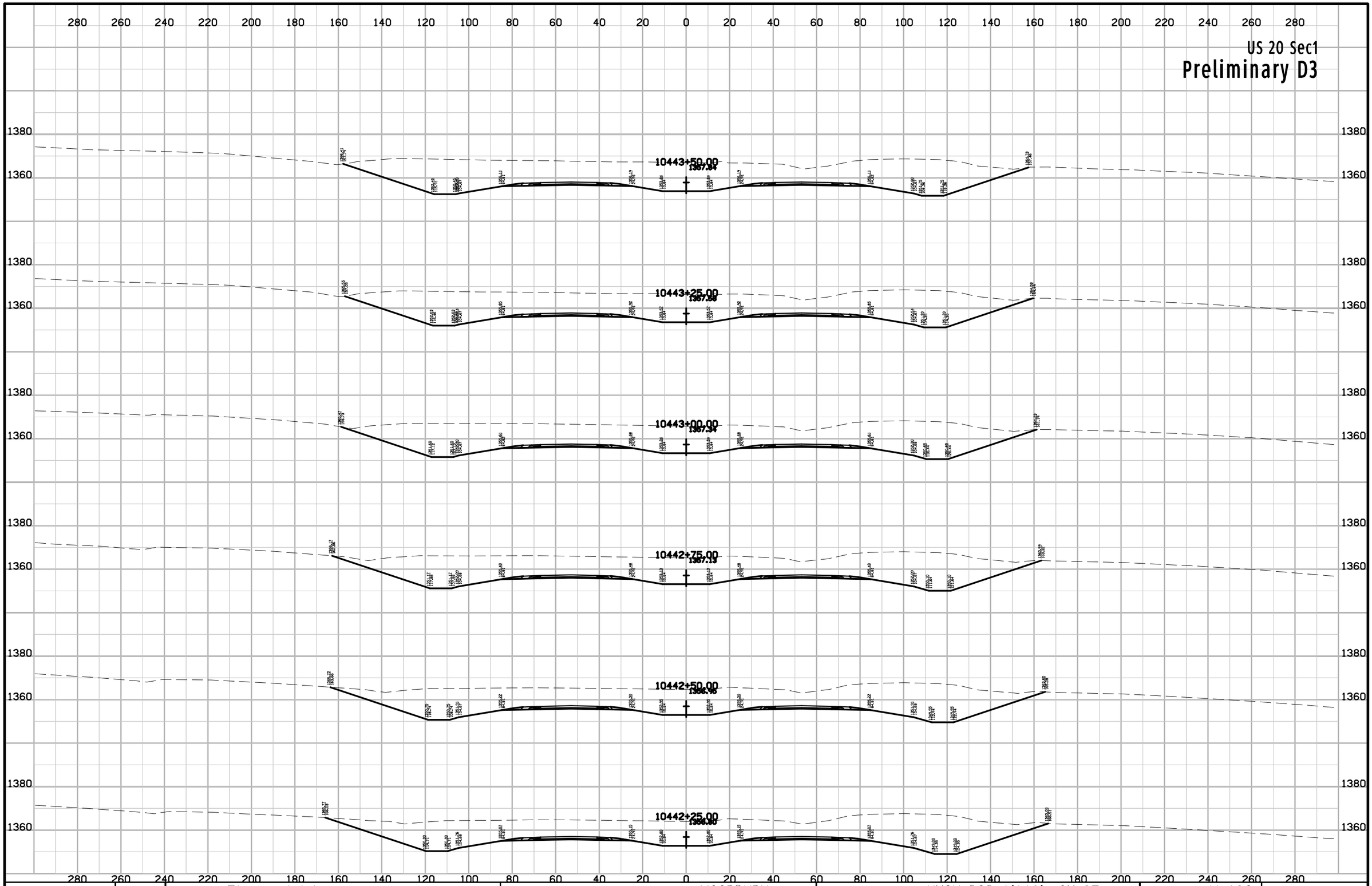


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.191

2:18:52 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

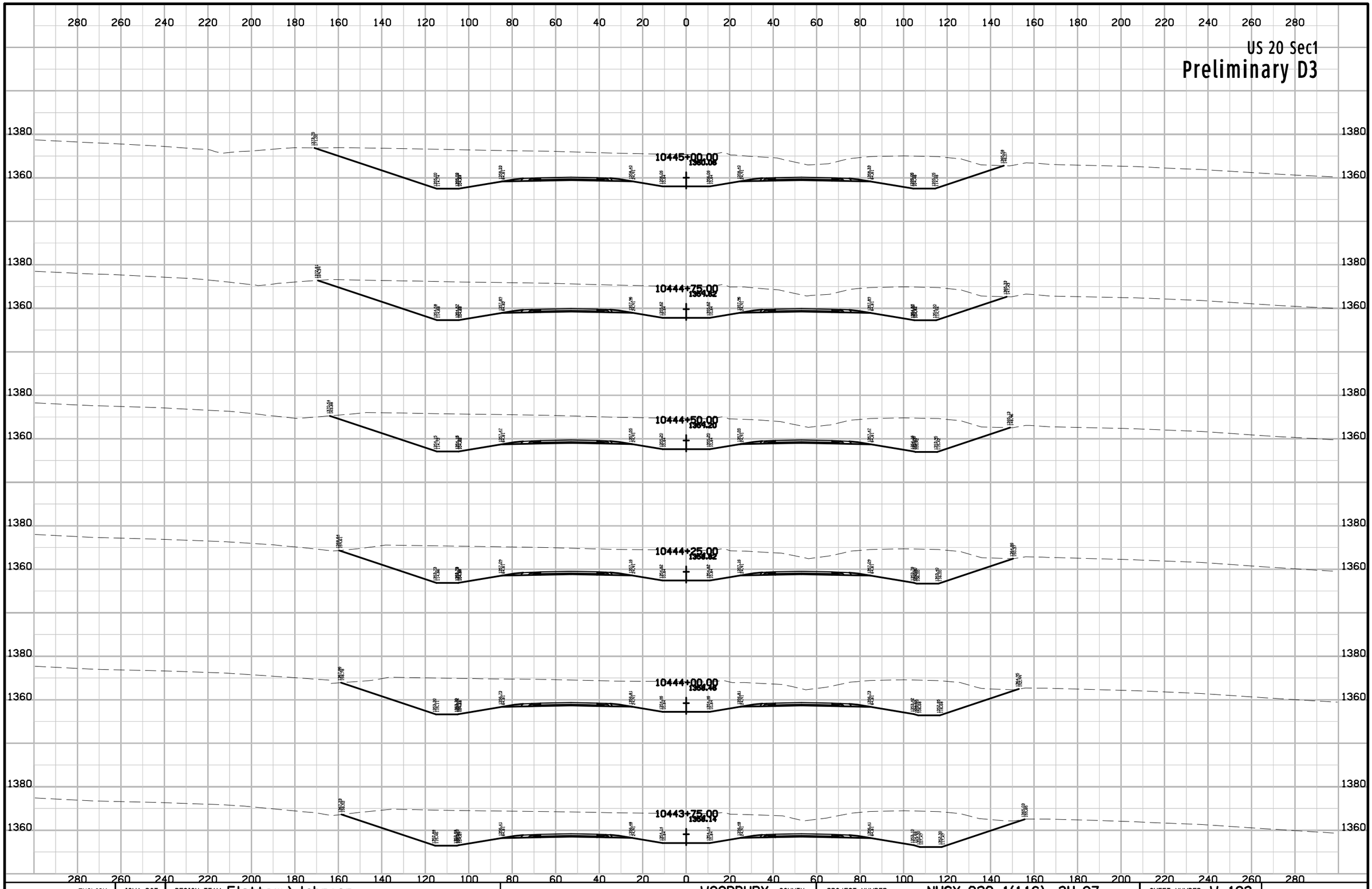


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.192

2:18:52 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

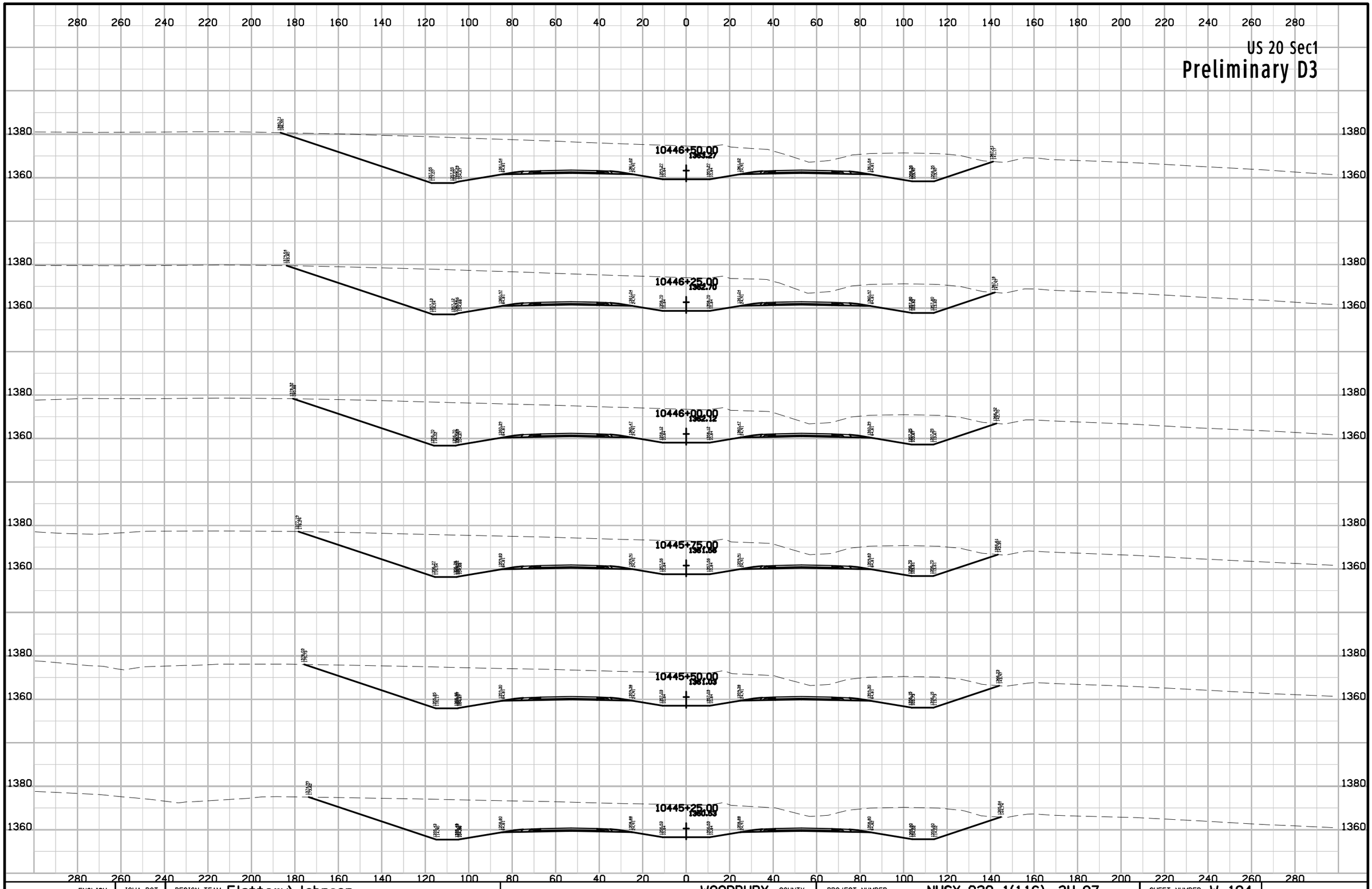


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.193

2:18:53 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

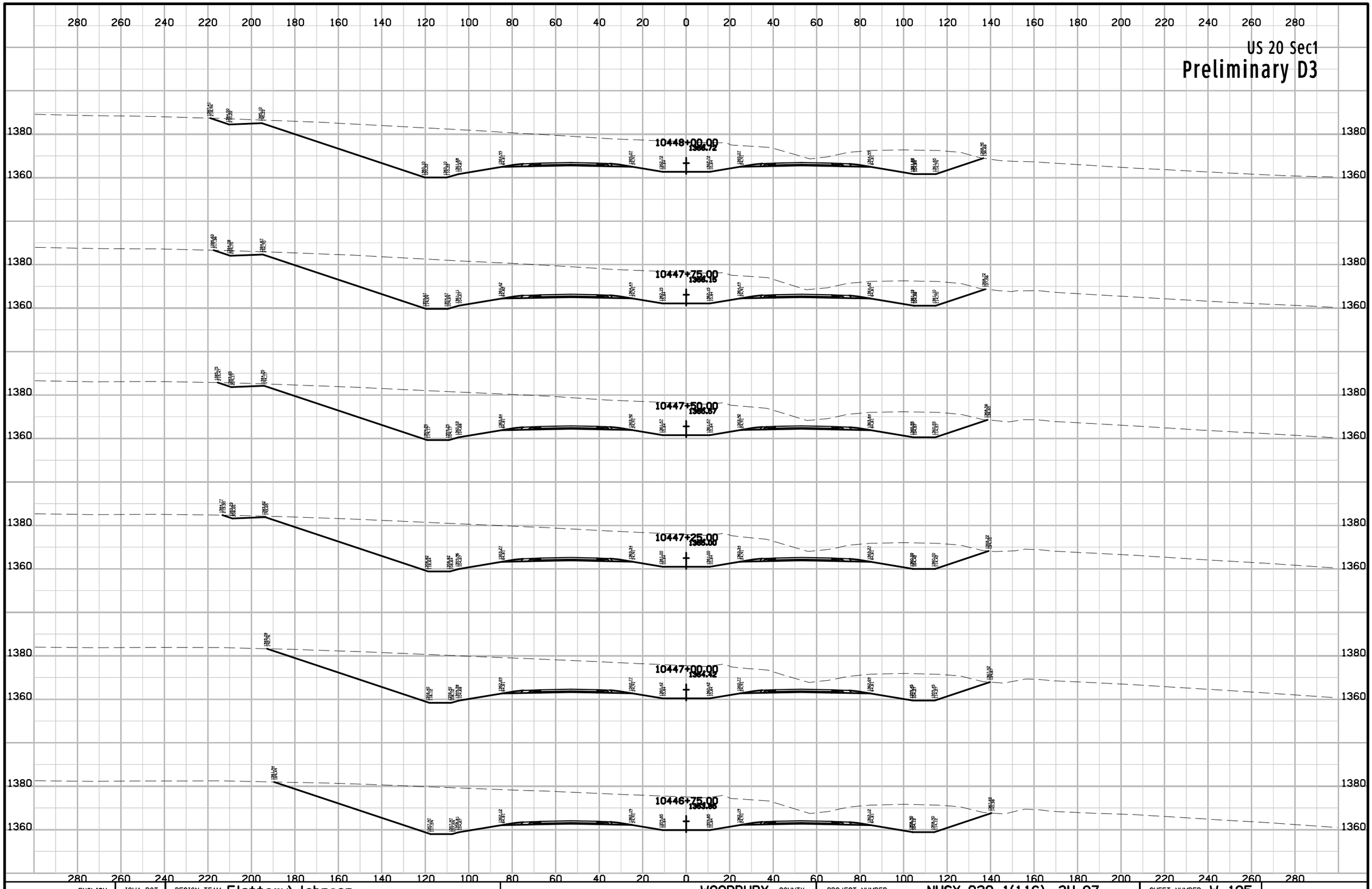


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.194

2:18:54 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

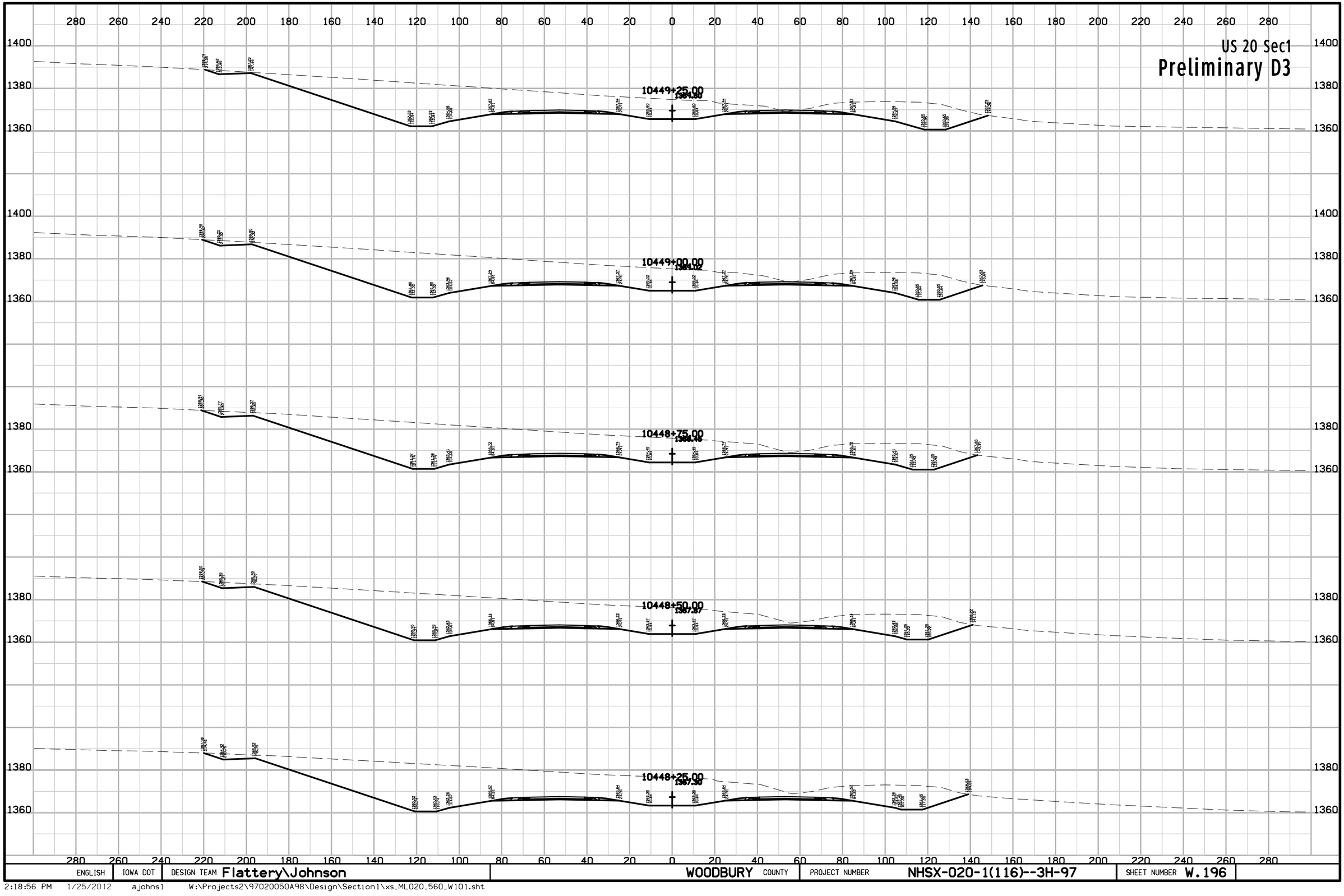


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.195

2:18:55 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

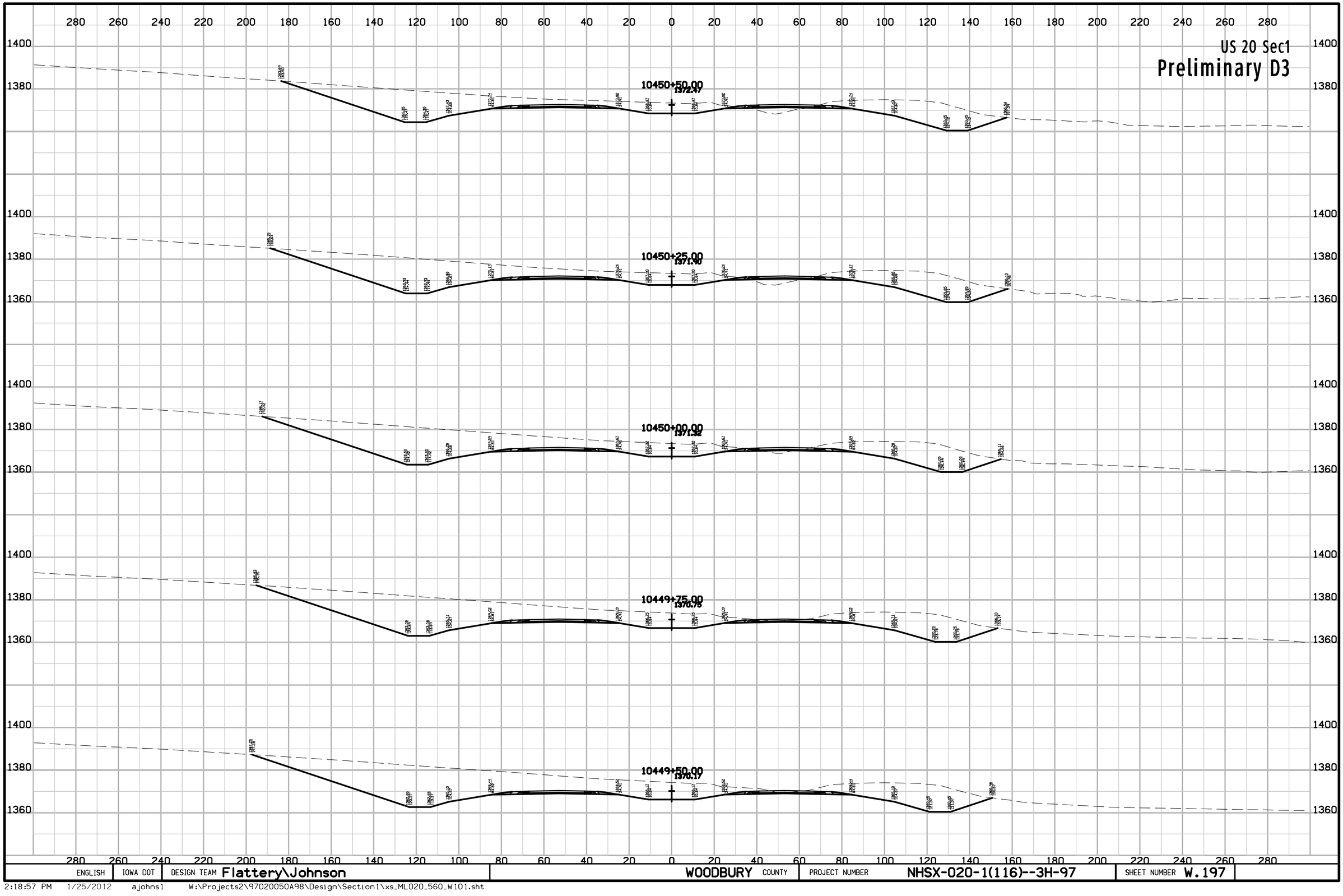


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.196

2:18:56 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

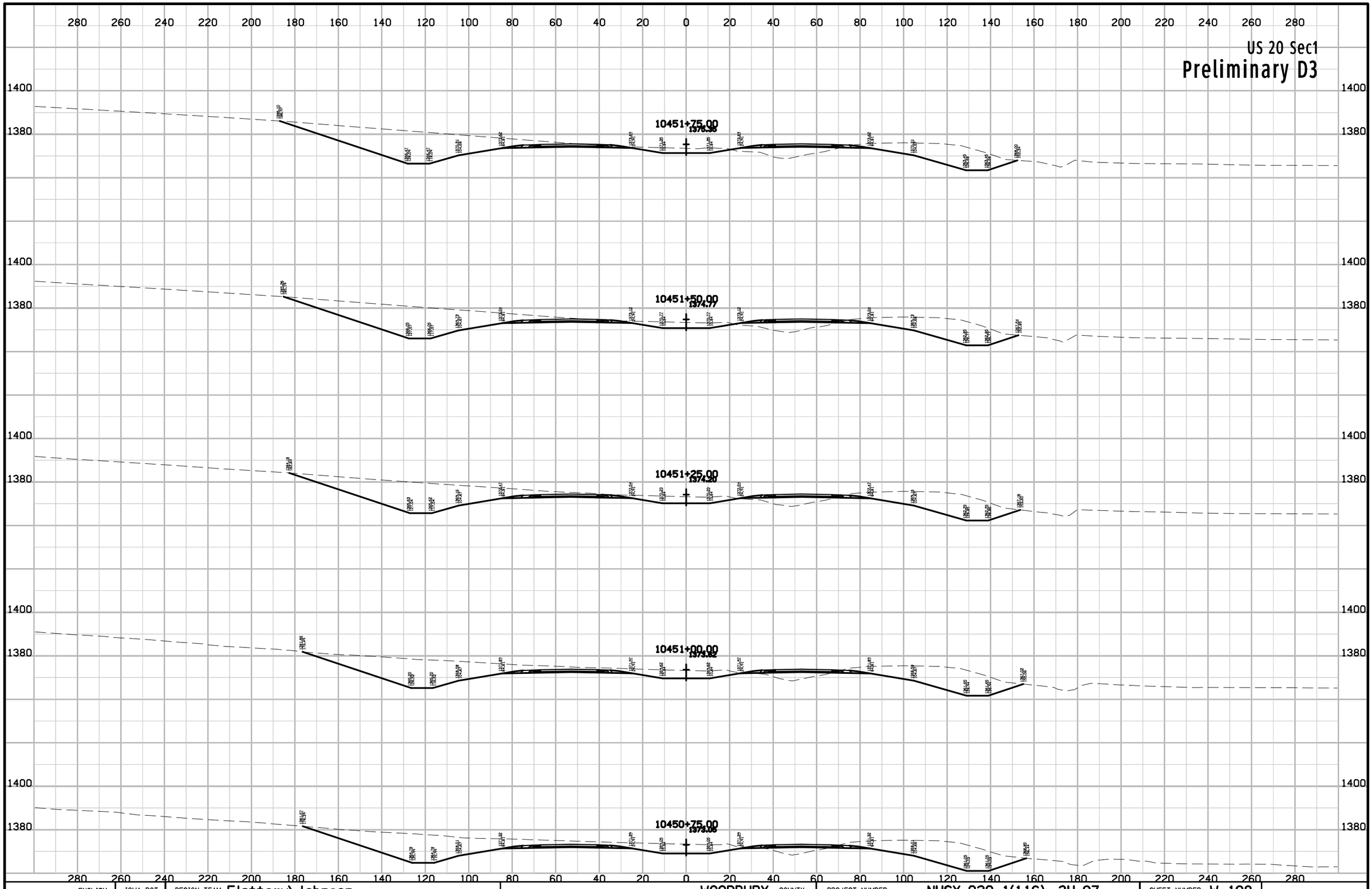


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.197

2:18:57 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

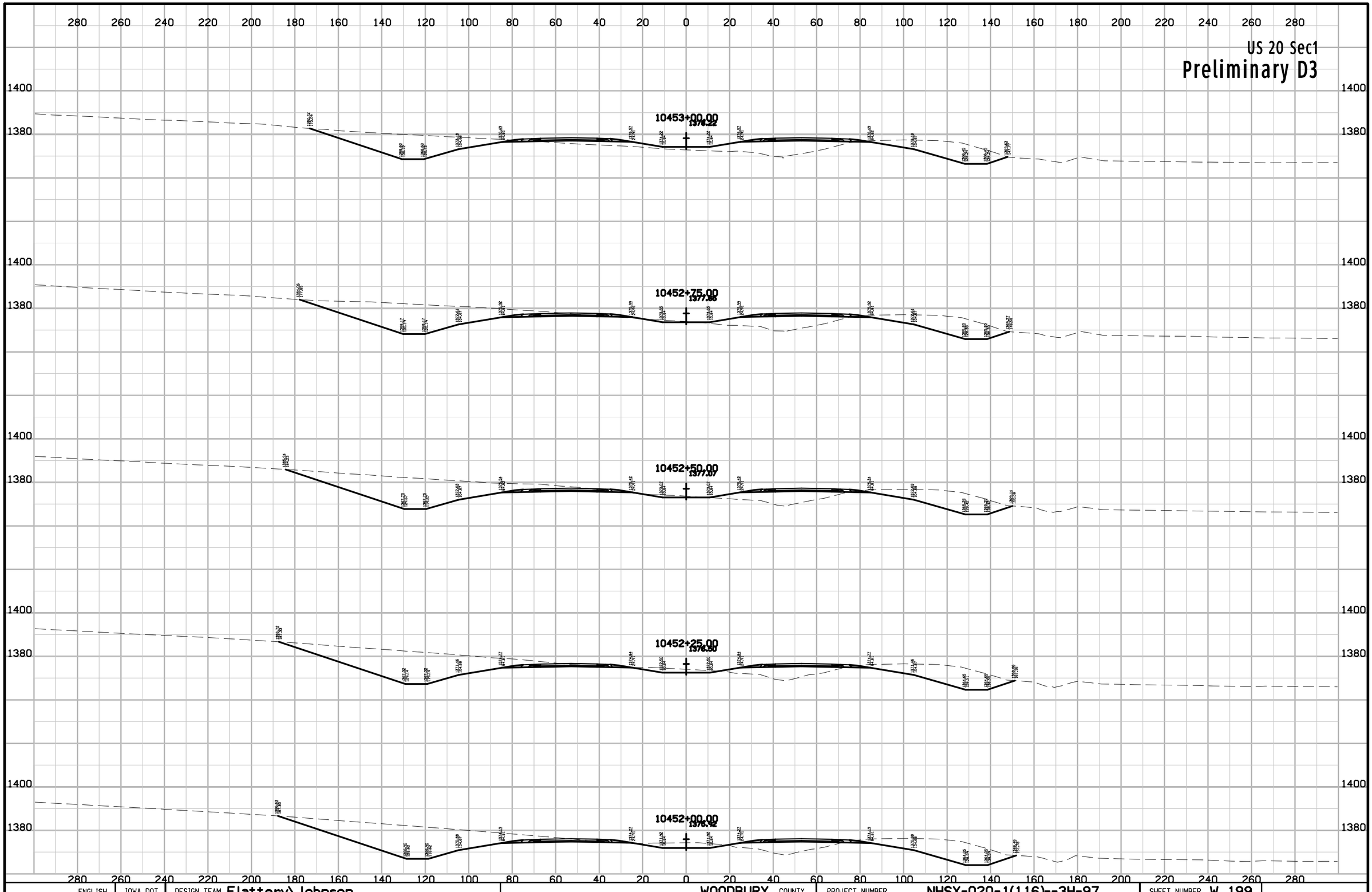


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.198

2:18:58 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

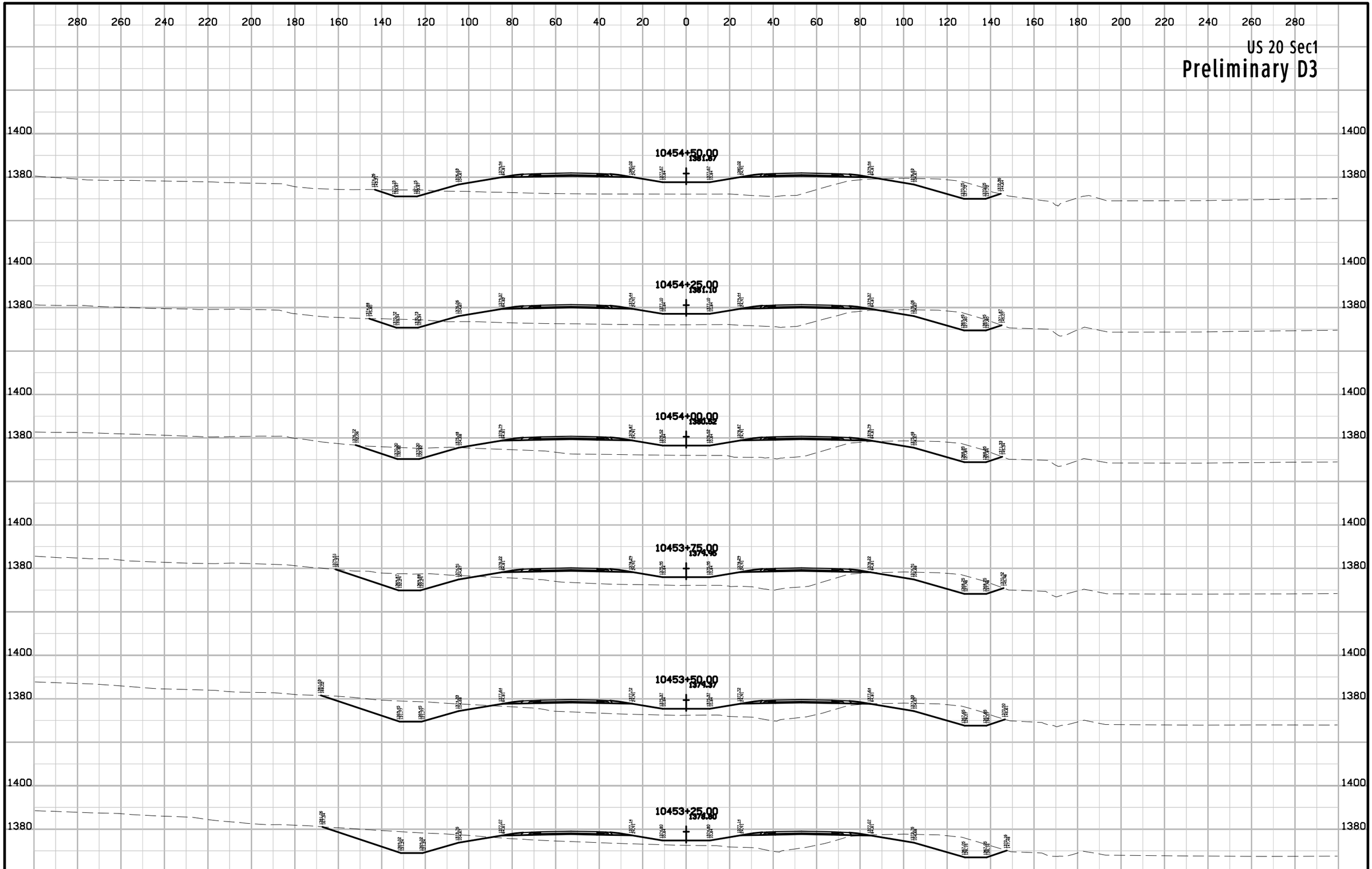


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.199

2:18:58 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

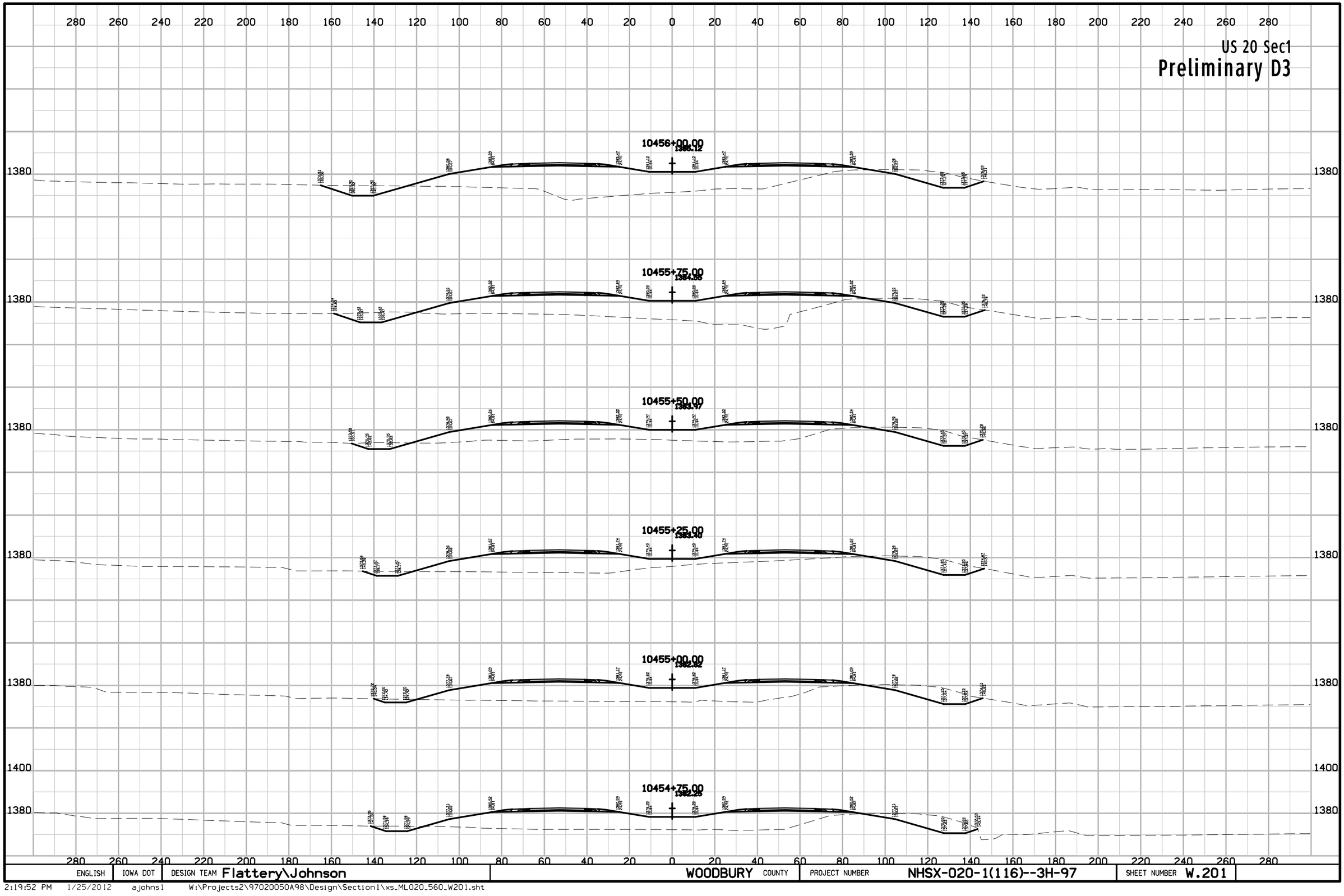


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.200

2:18:59 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W101.sht

US 20 Sec1

Preliminary D3

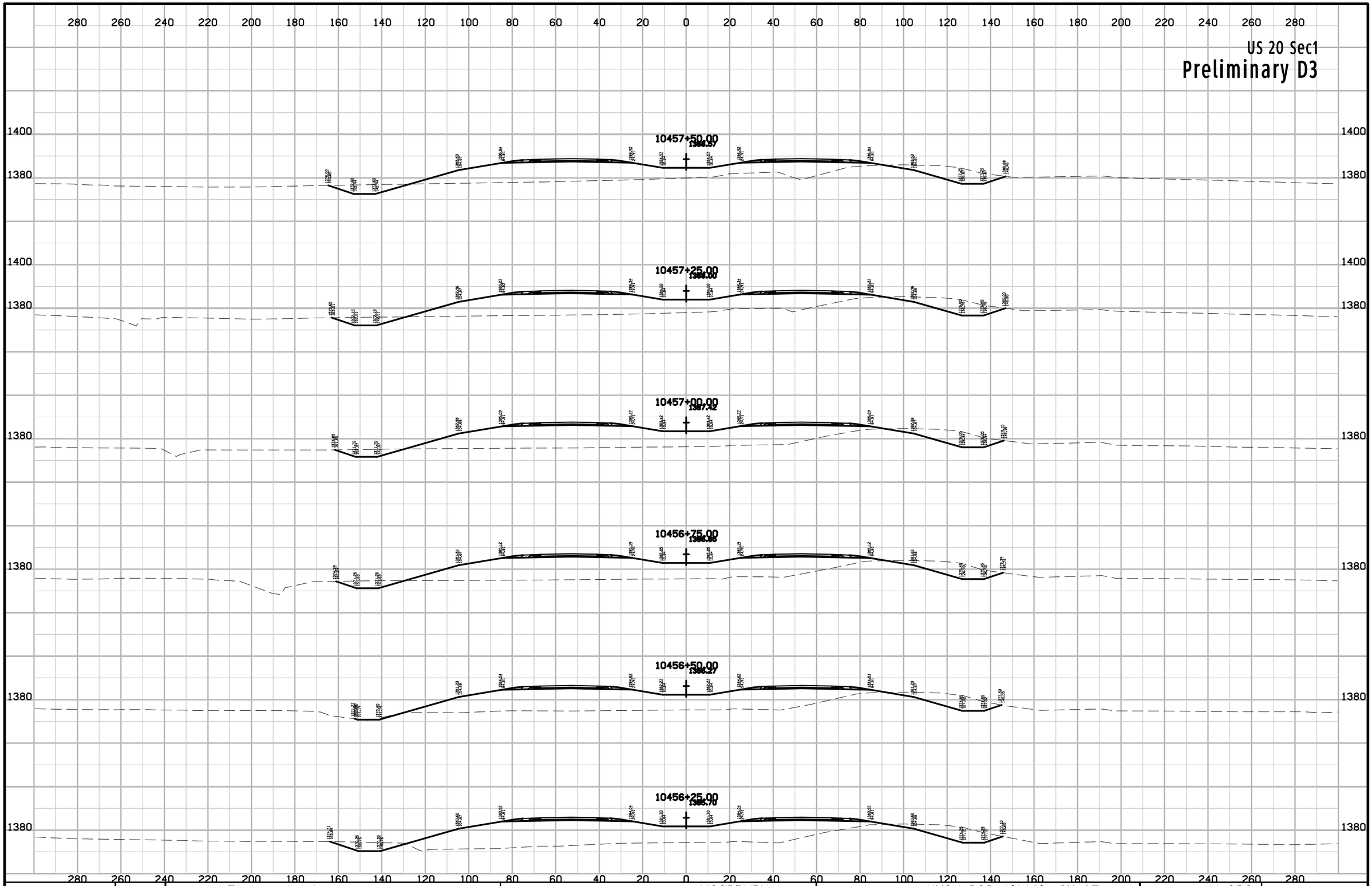


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.201

2:19:52 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

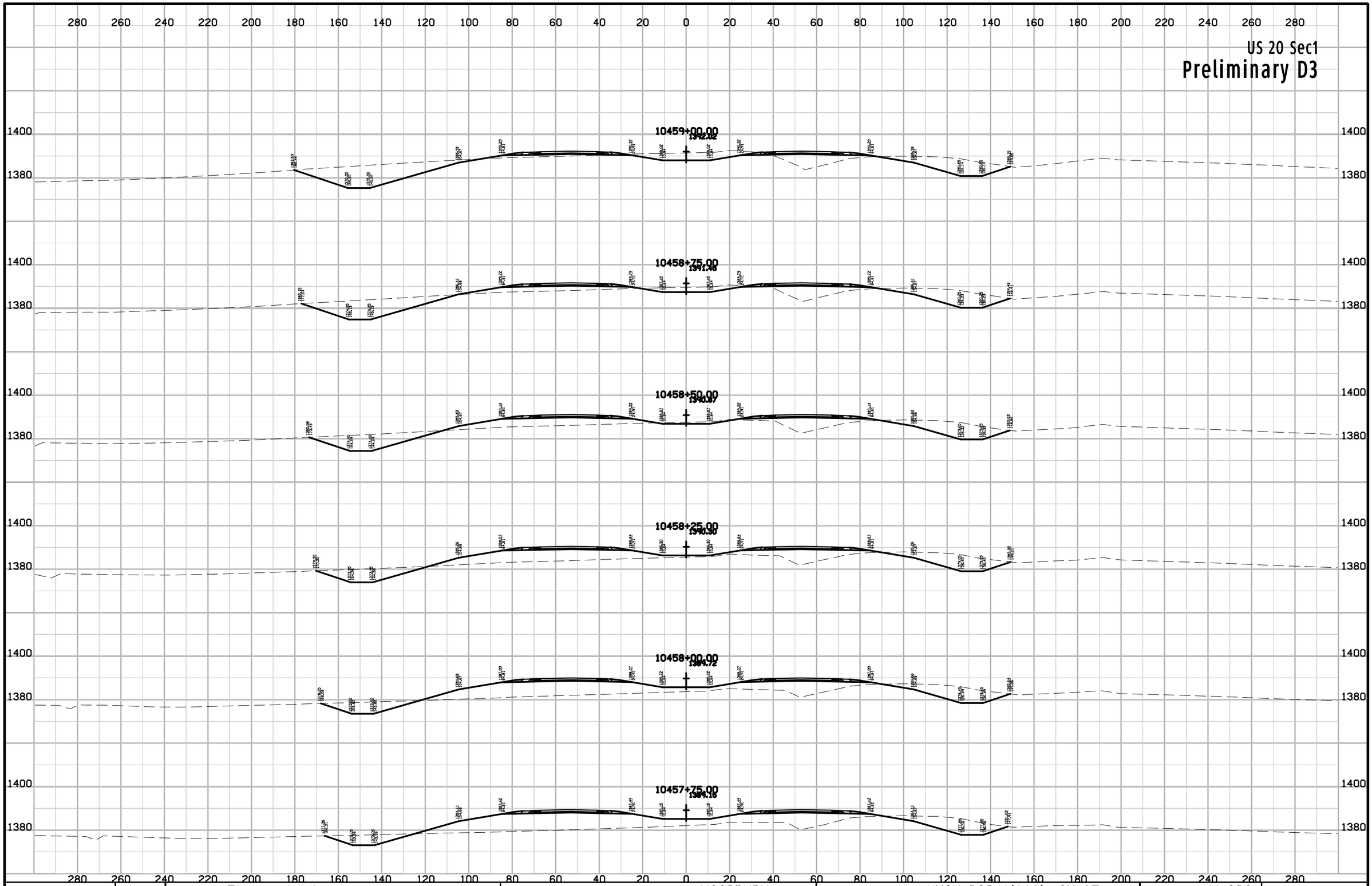


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.202

2:19:53 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

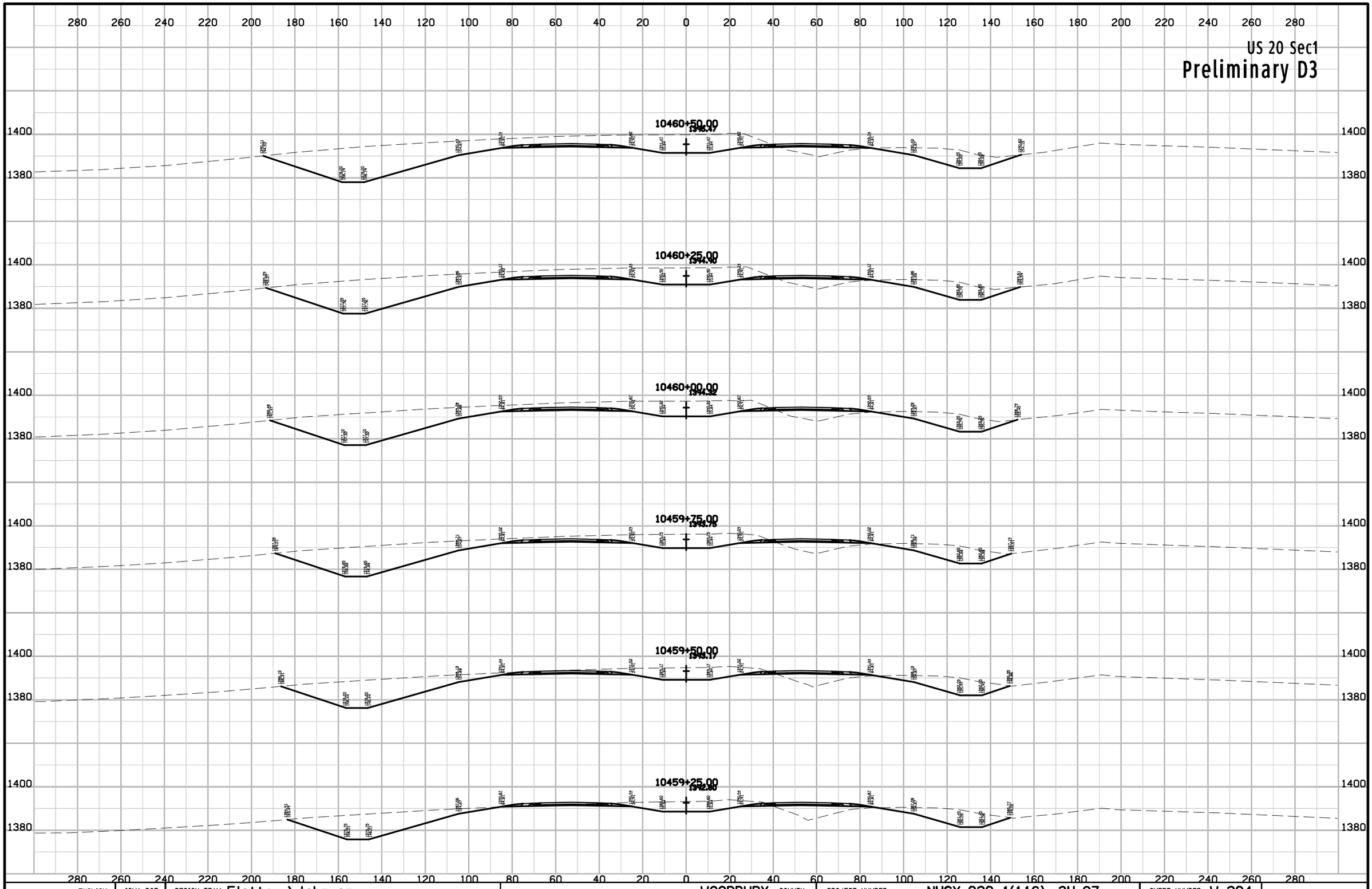


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.203

2:19:54 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

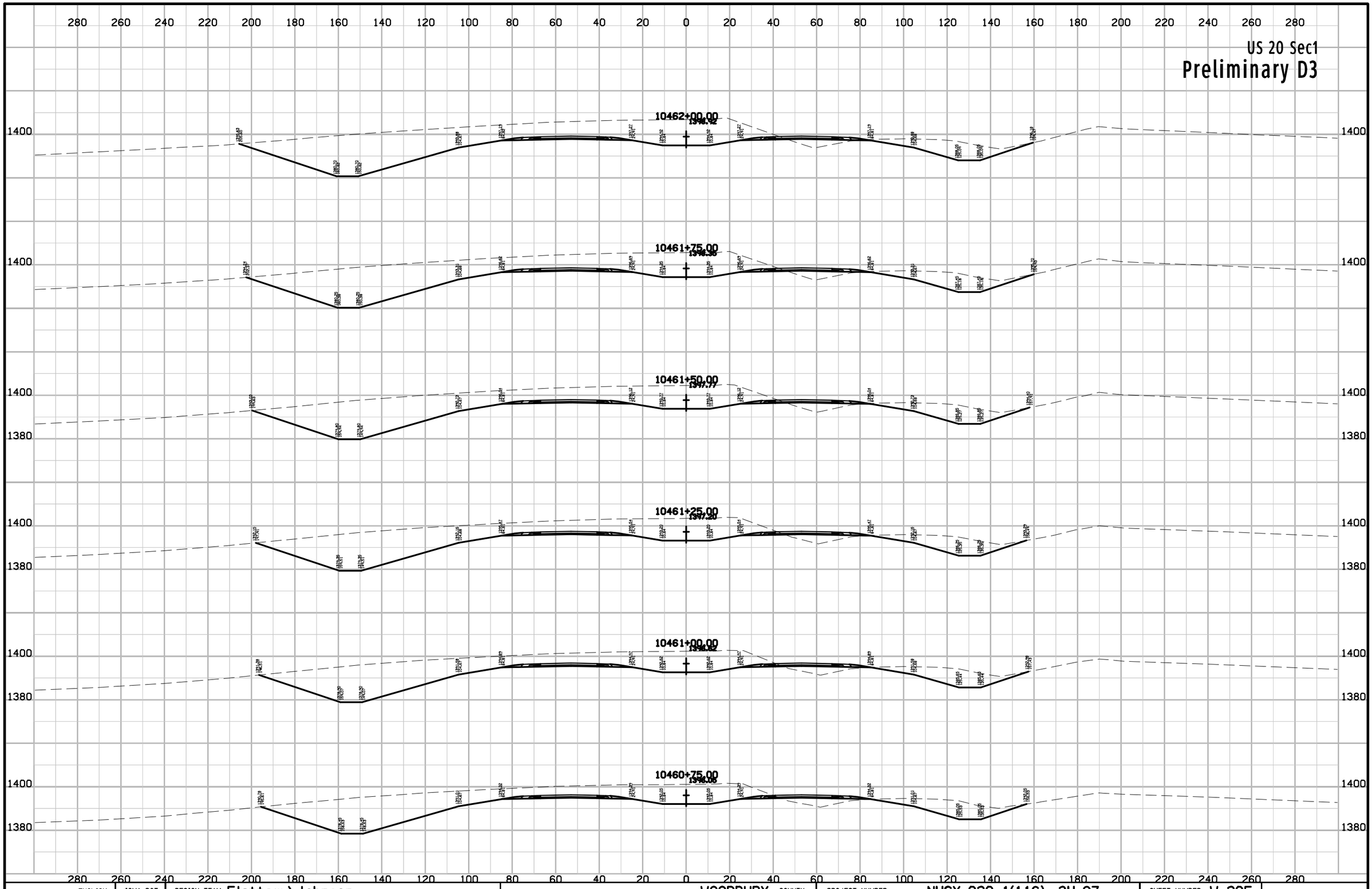


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.204	

2:19:54 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

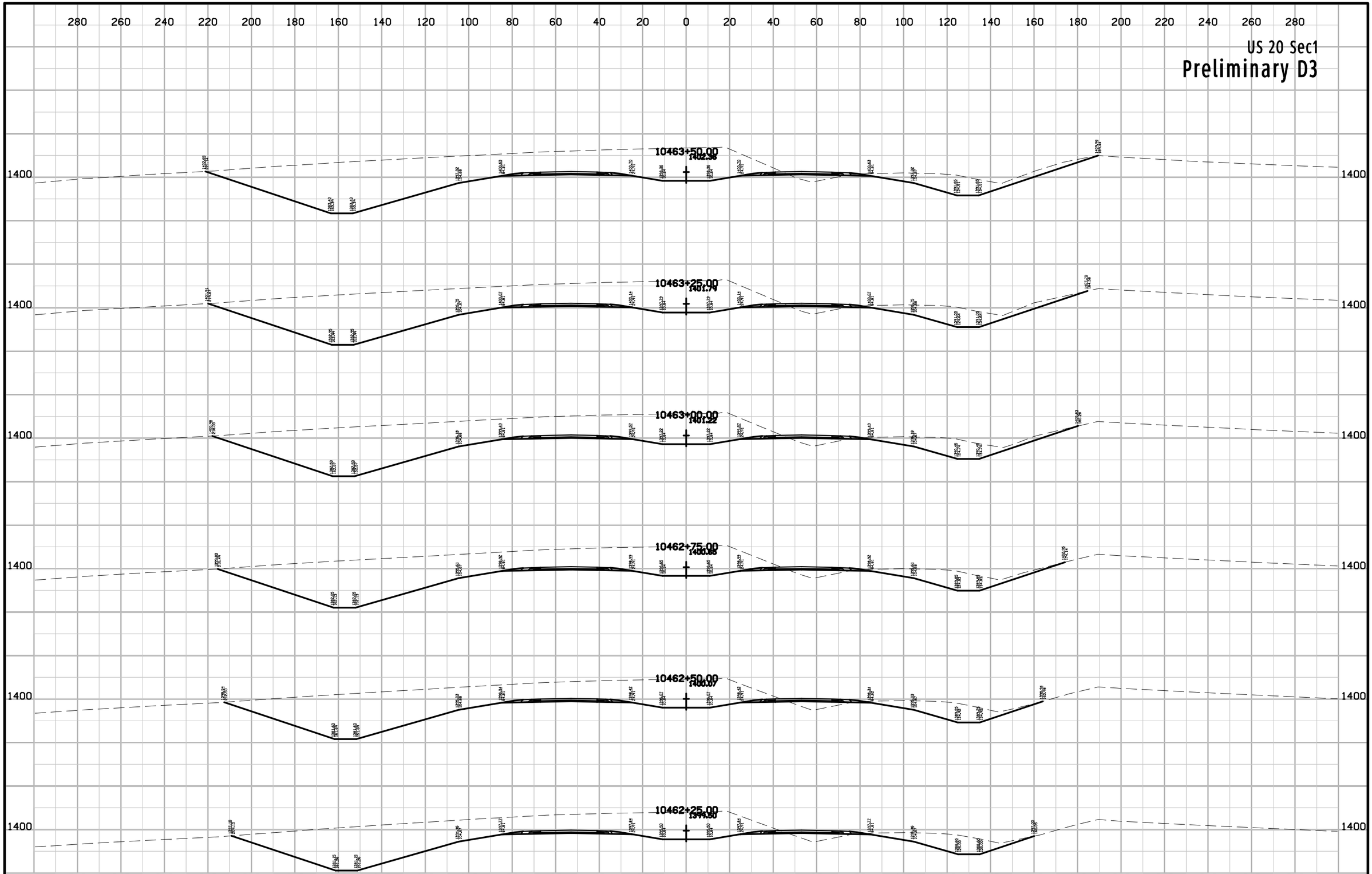


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.205

2:19:55 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

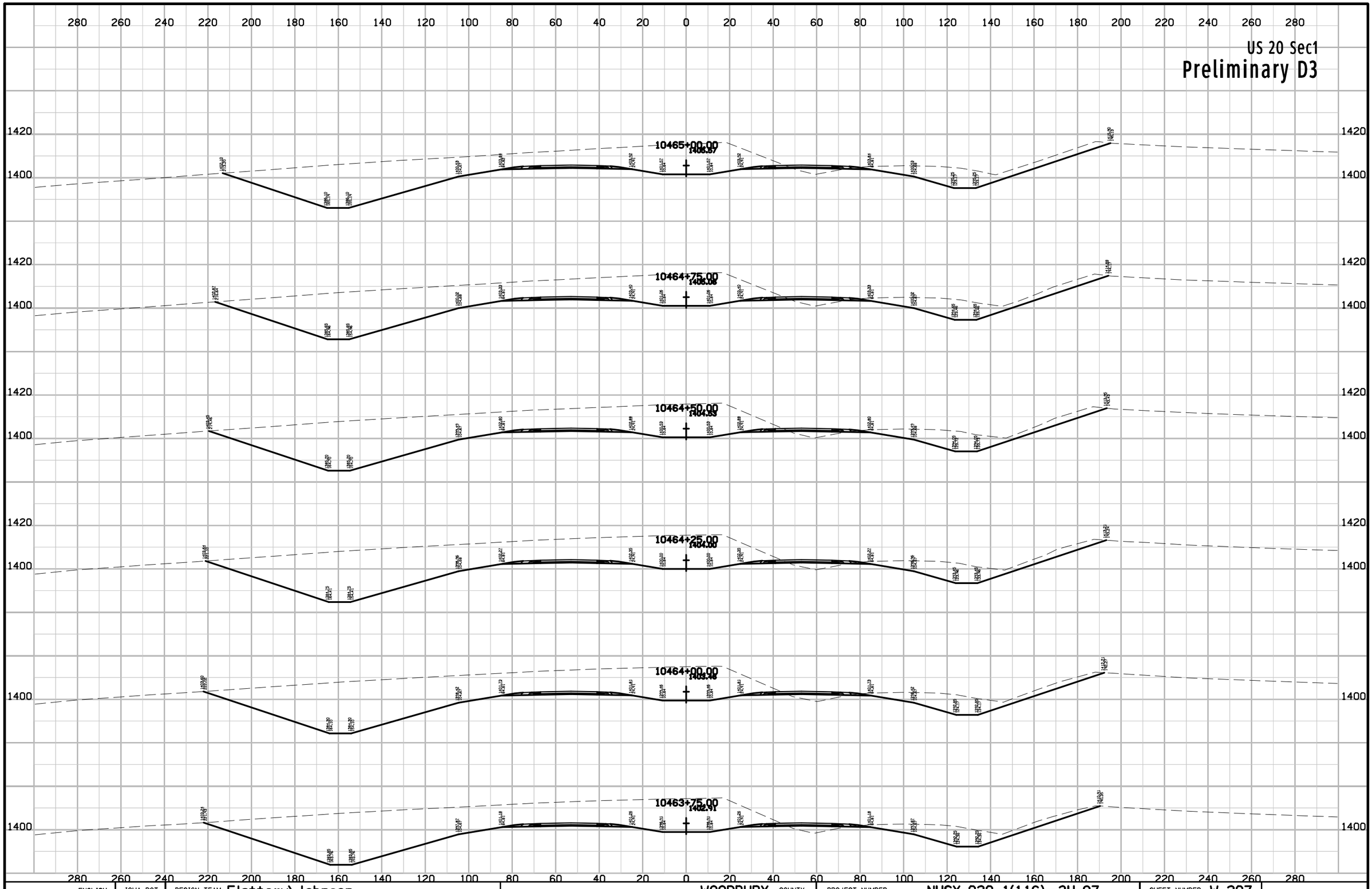


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.206

2:19:56 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

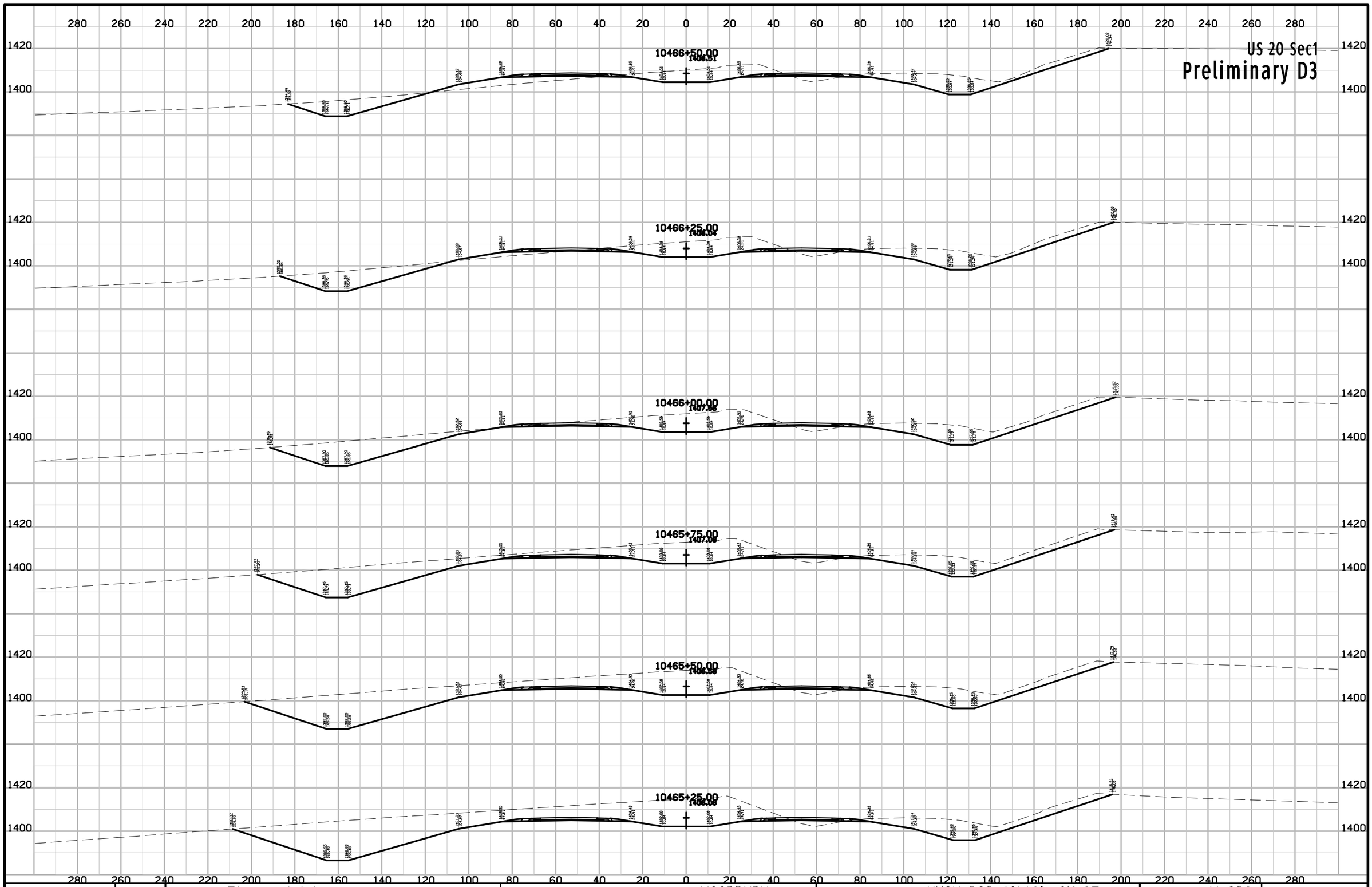


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.207	

2:19:57 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

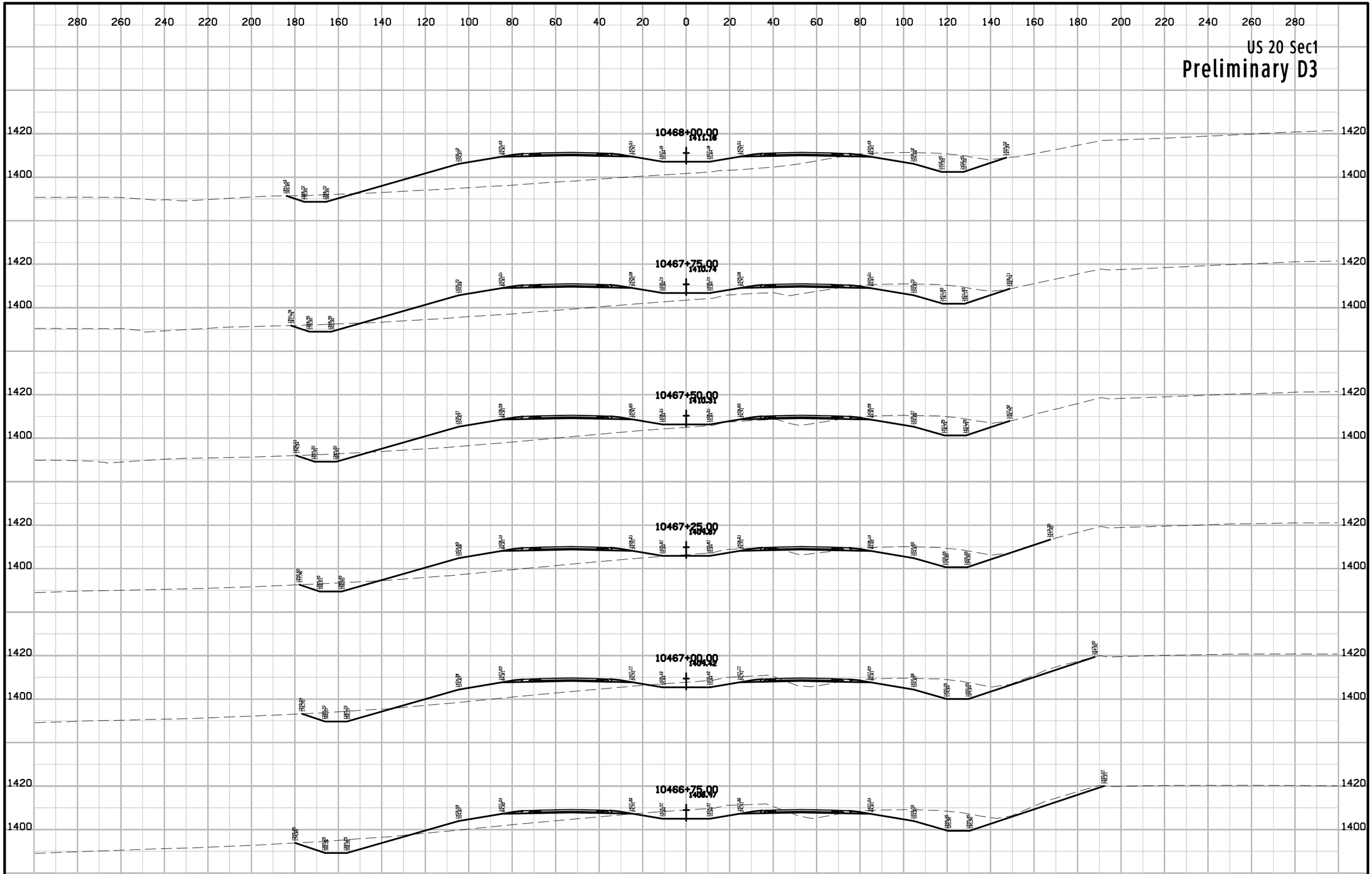


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.208

2:19:58 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

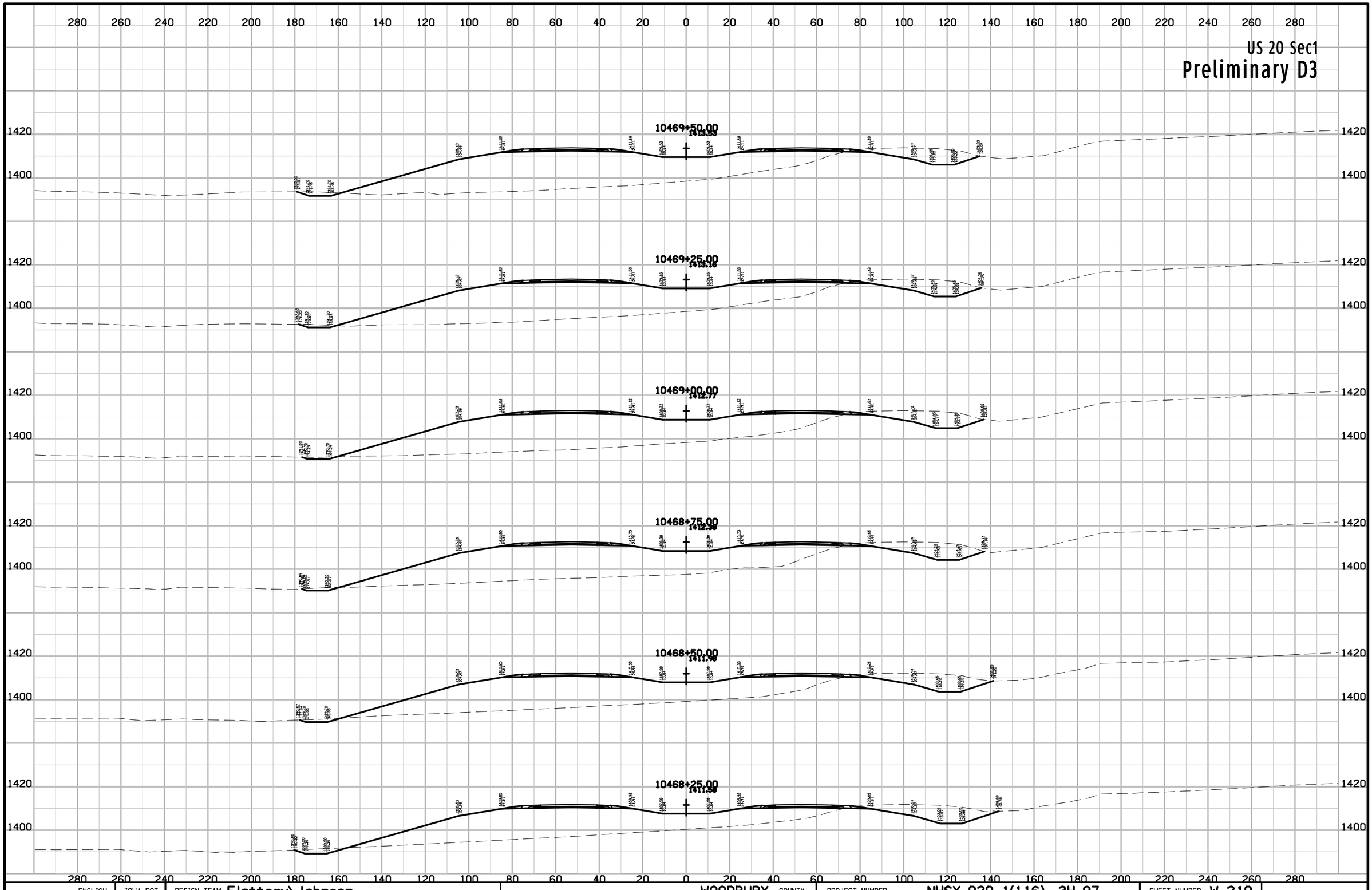


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.209

2:19:59 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

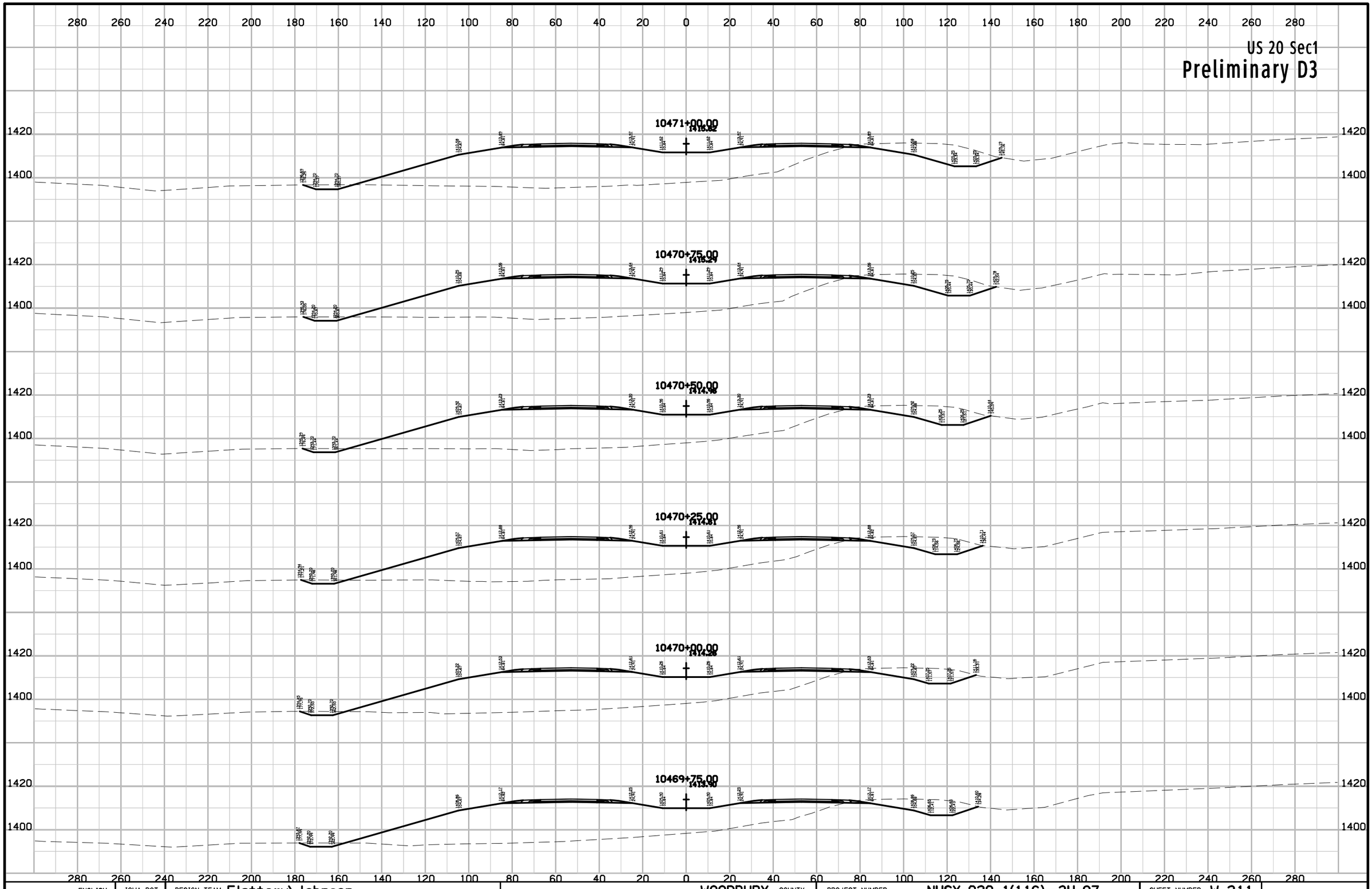


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.210

2:20:00 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

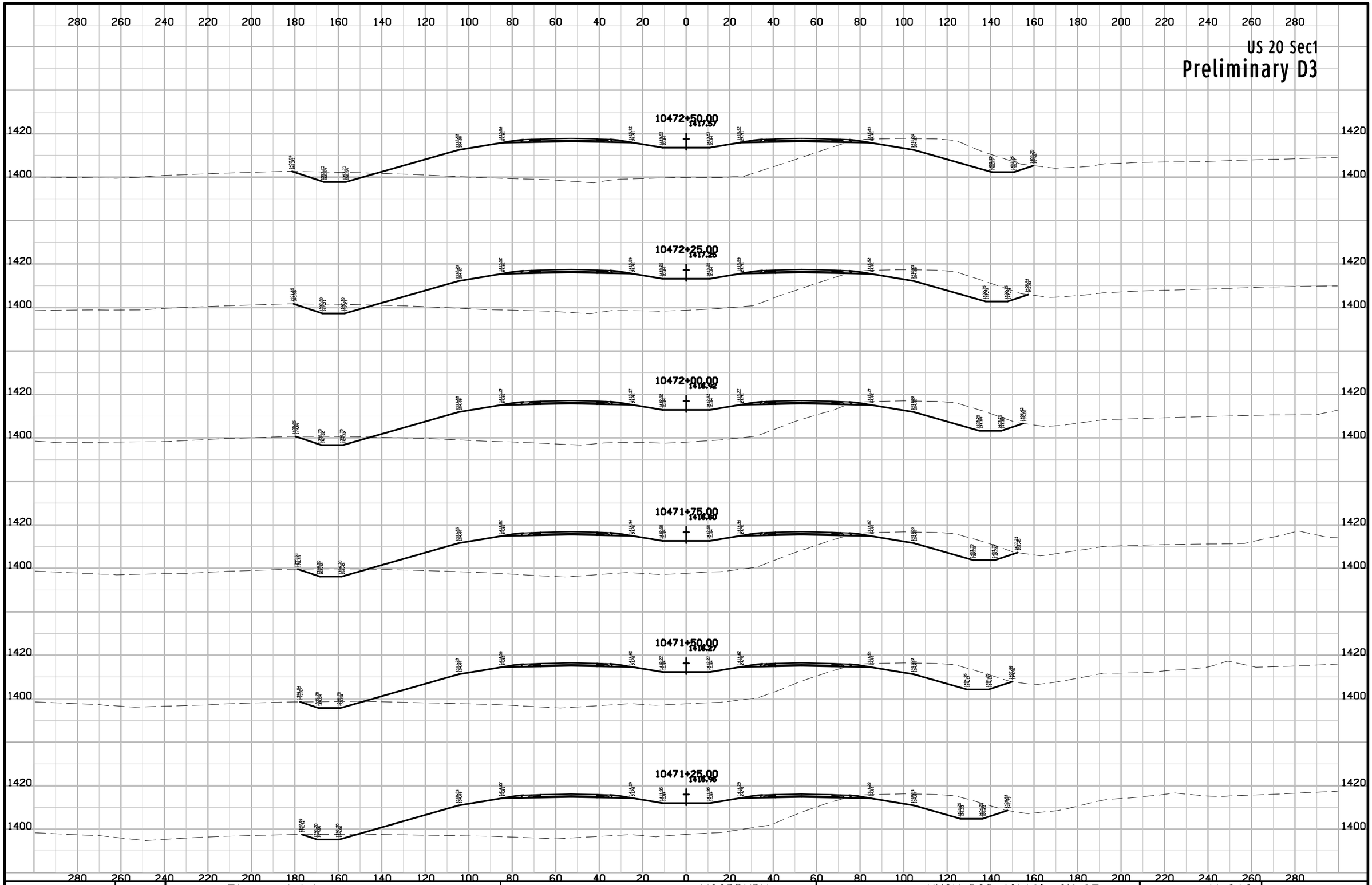


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.211

2:20:00 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

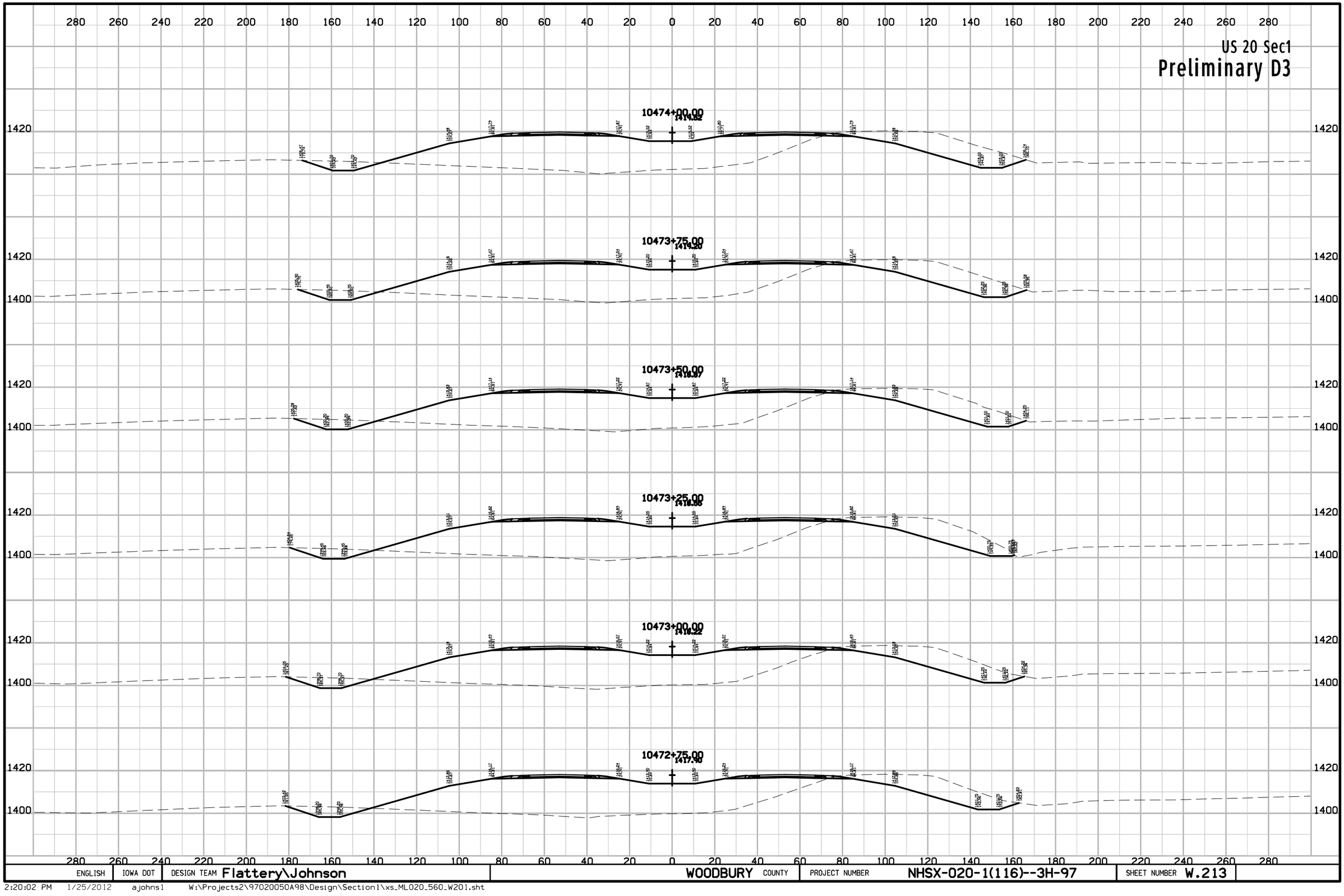


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.212

2:20:01 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3



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

2:20:02 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

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

10475+50.00
1421.47

10475+25.00
1421.16

10475+00.00
1420.92

10474+75.00
1420.50

10474+50.00
1420.17

10474+25.00
1419.88

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

2:20:03 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

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

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

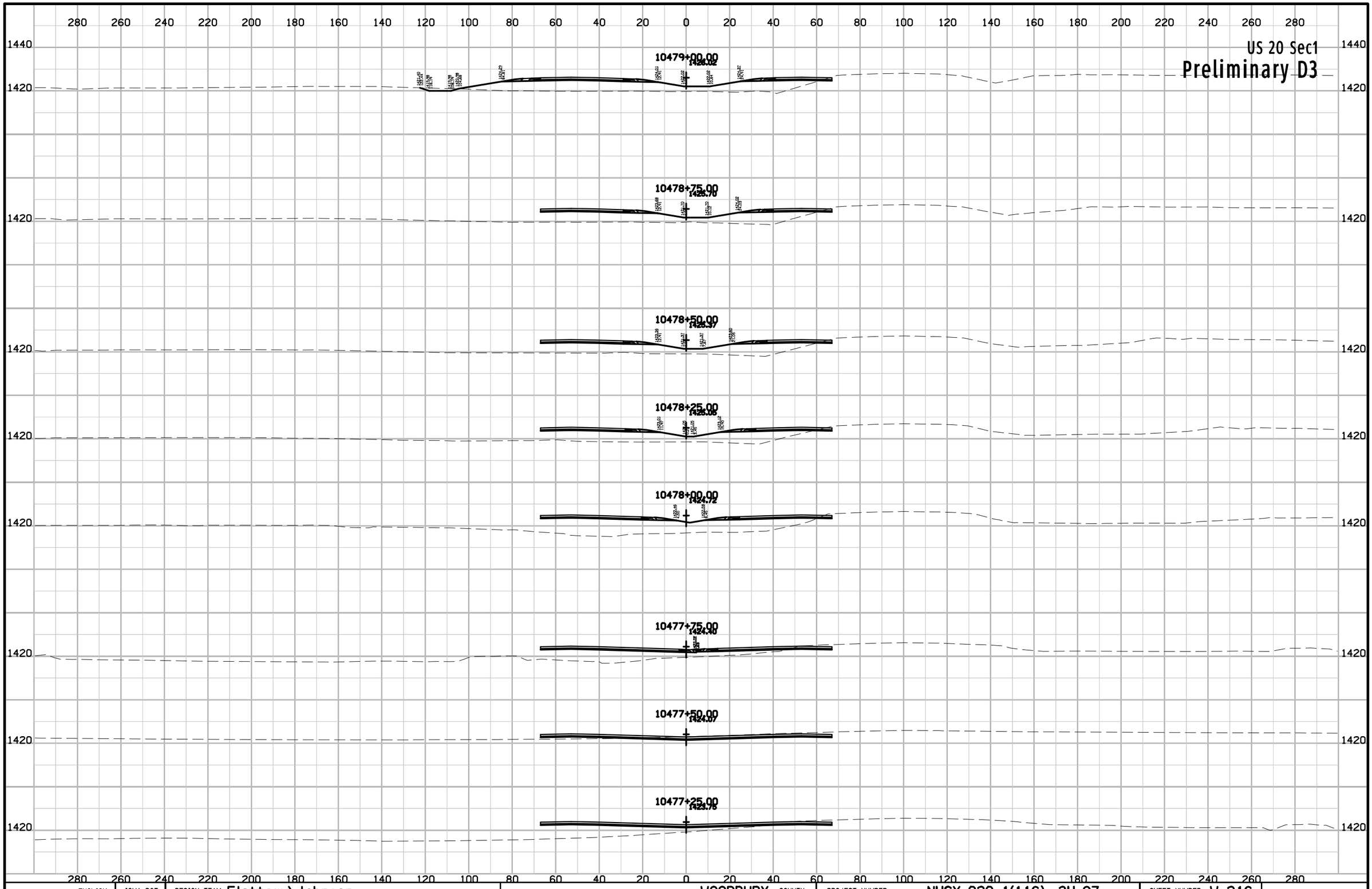
1420

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

2:20:04 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

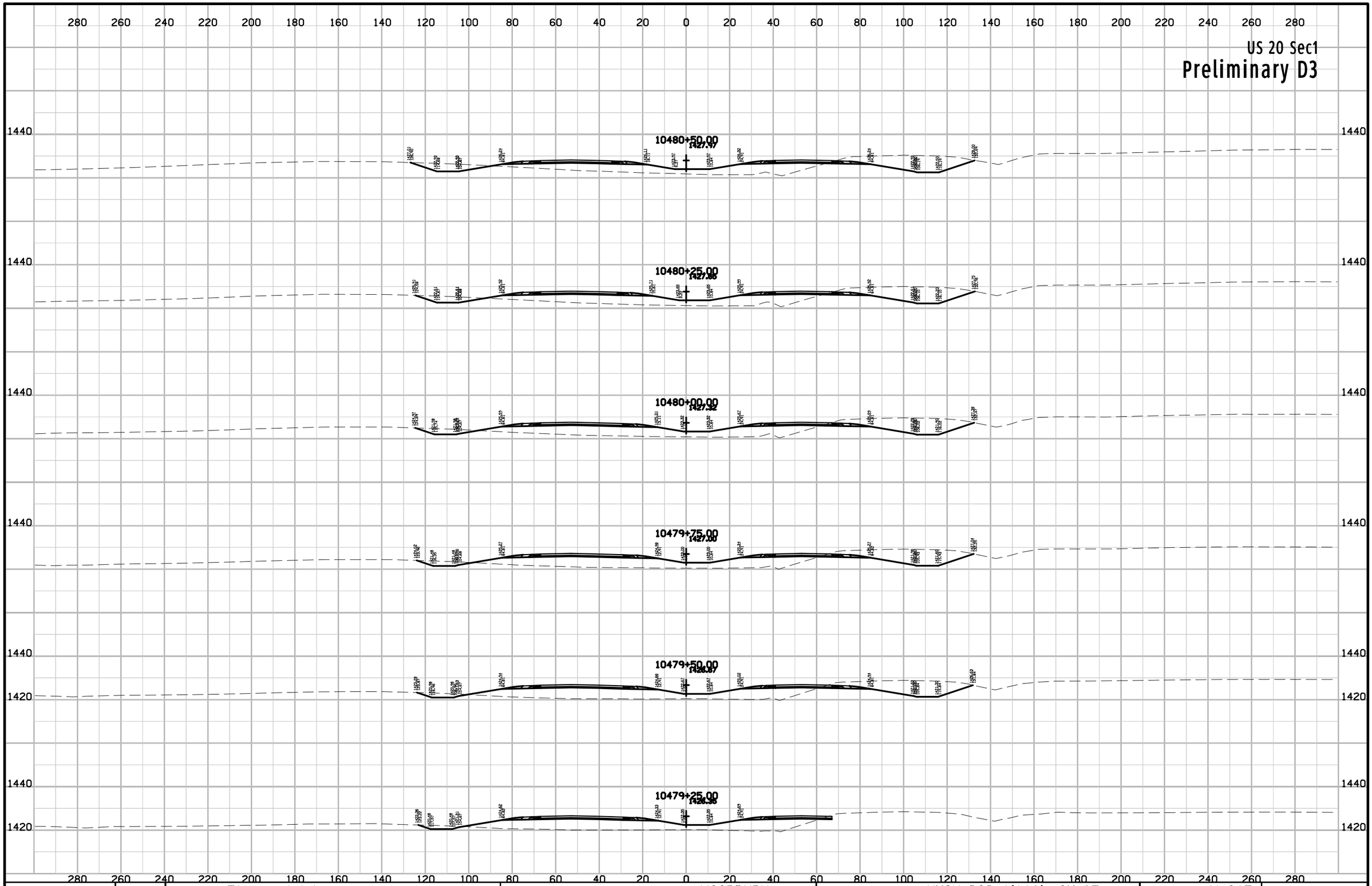


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.216

2:20:05 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

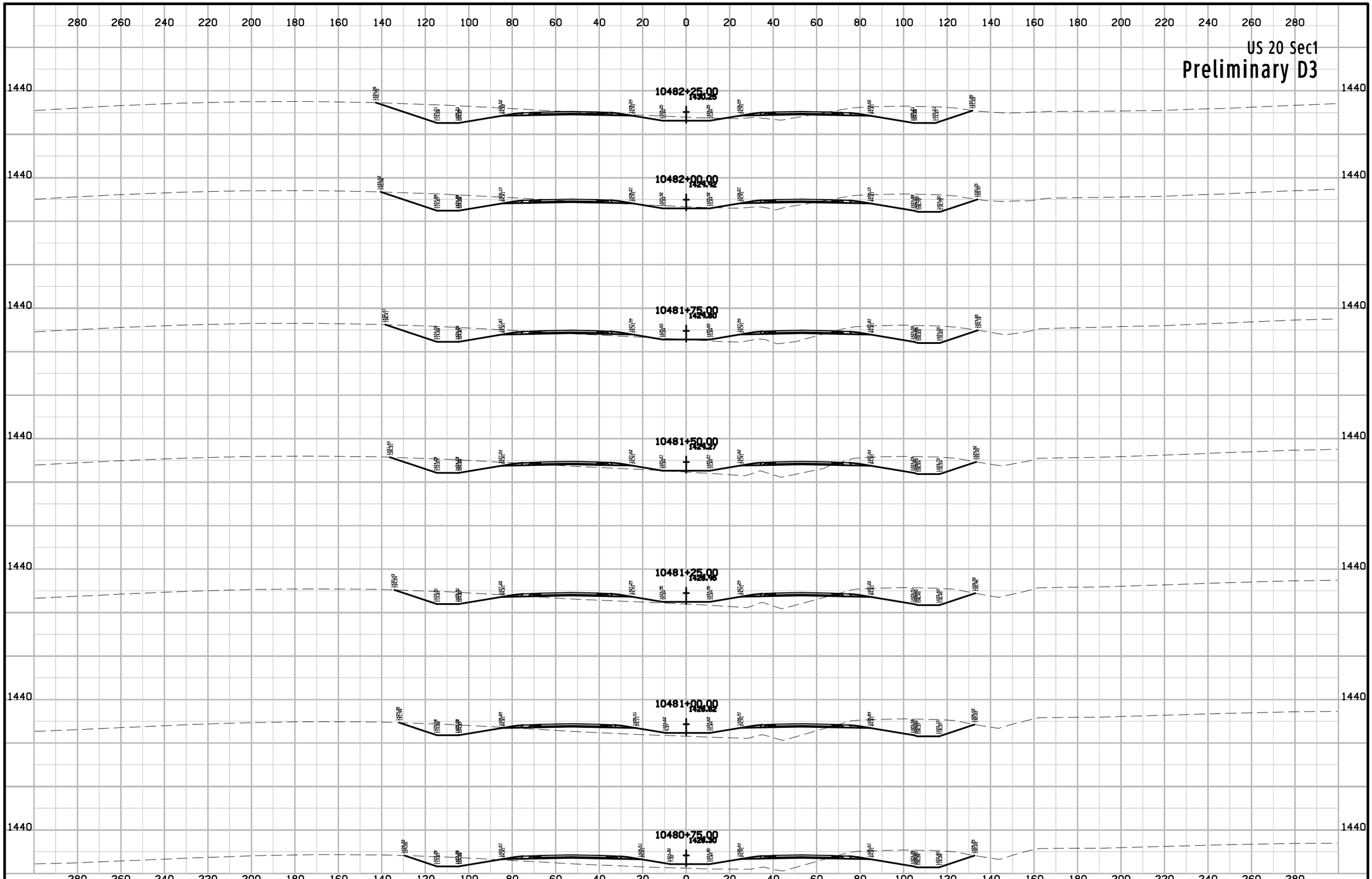


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.217

2:20:05 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

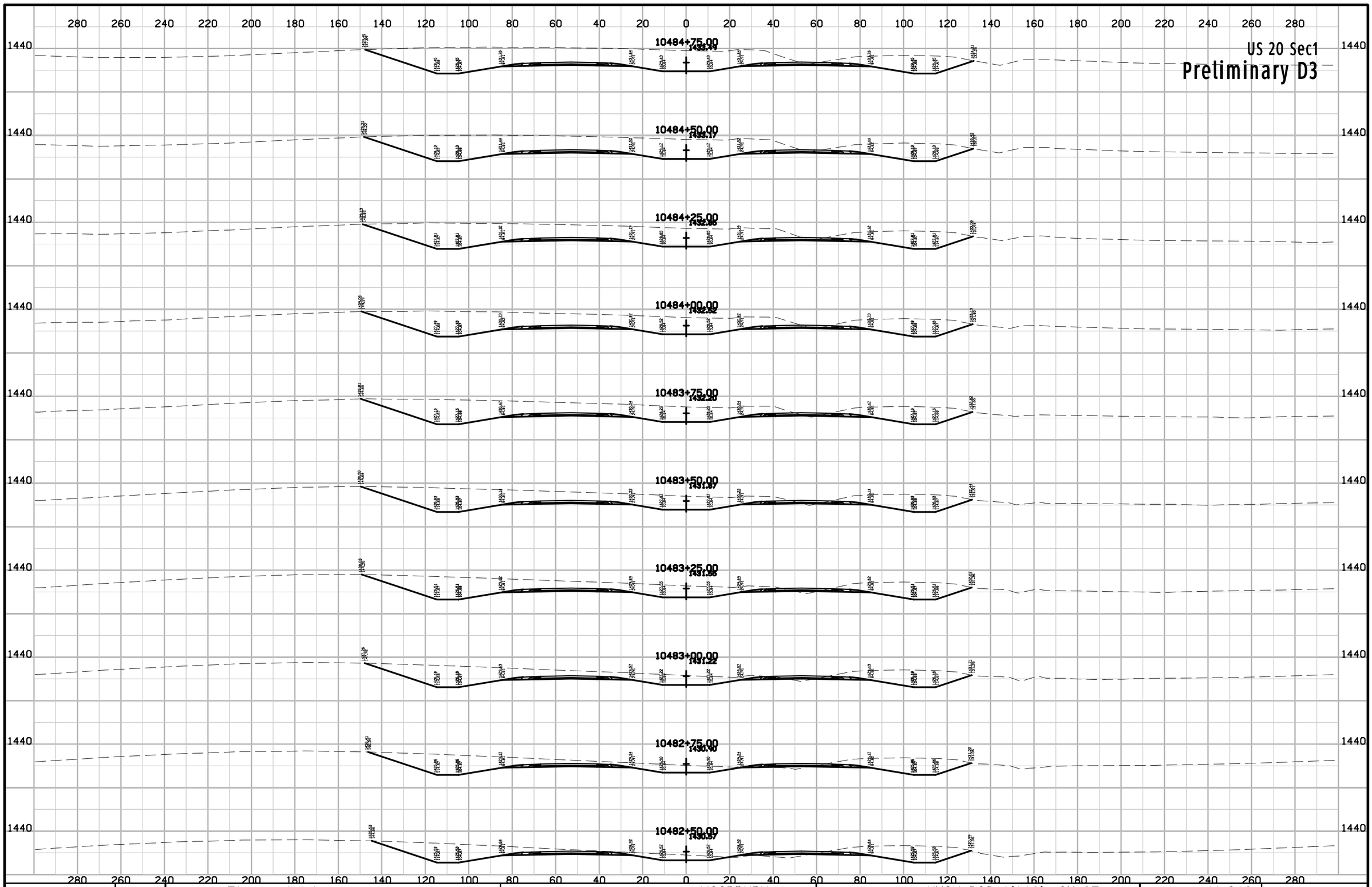


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.218

2:20:06 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

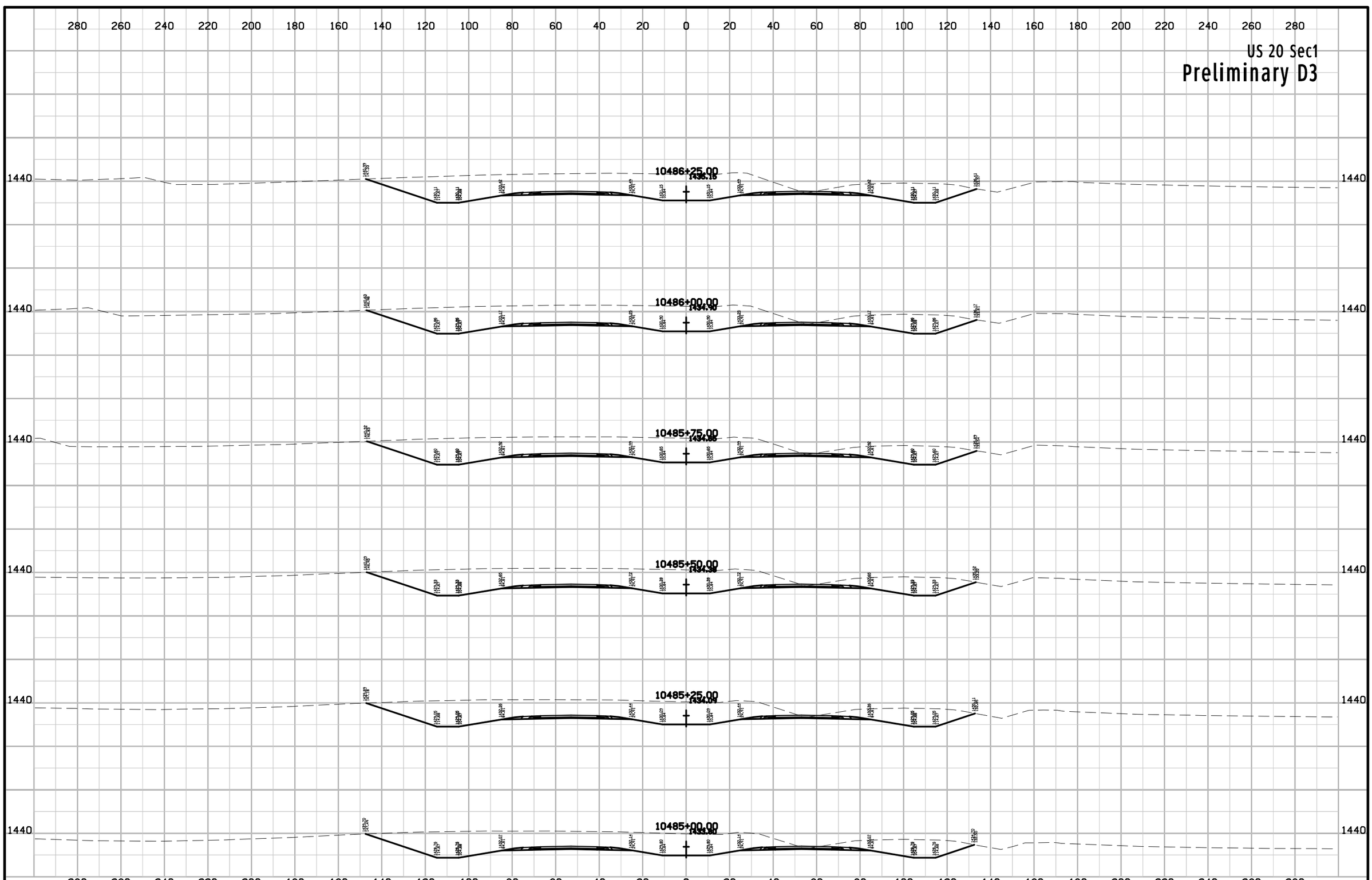


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.219	

2:20:07 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

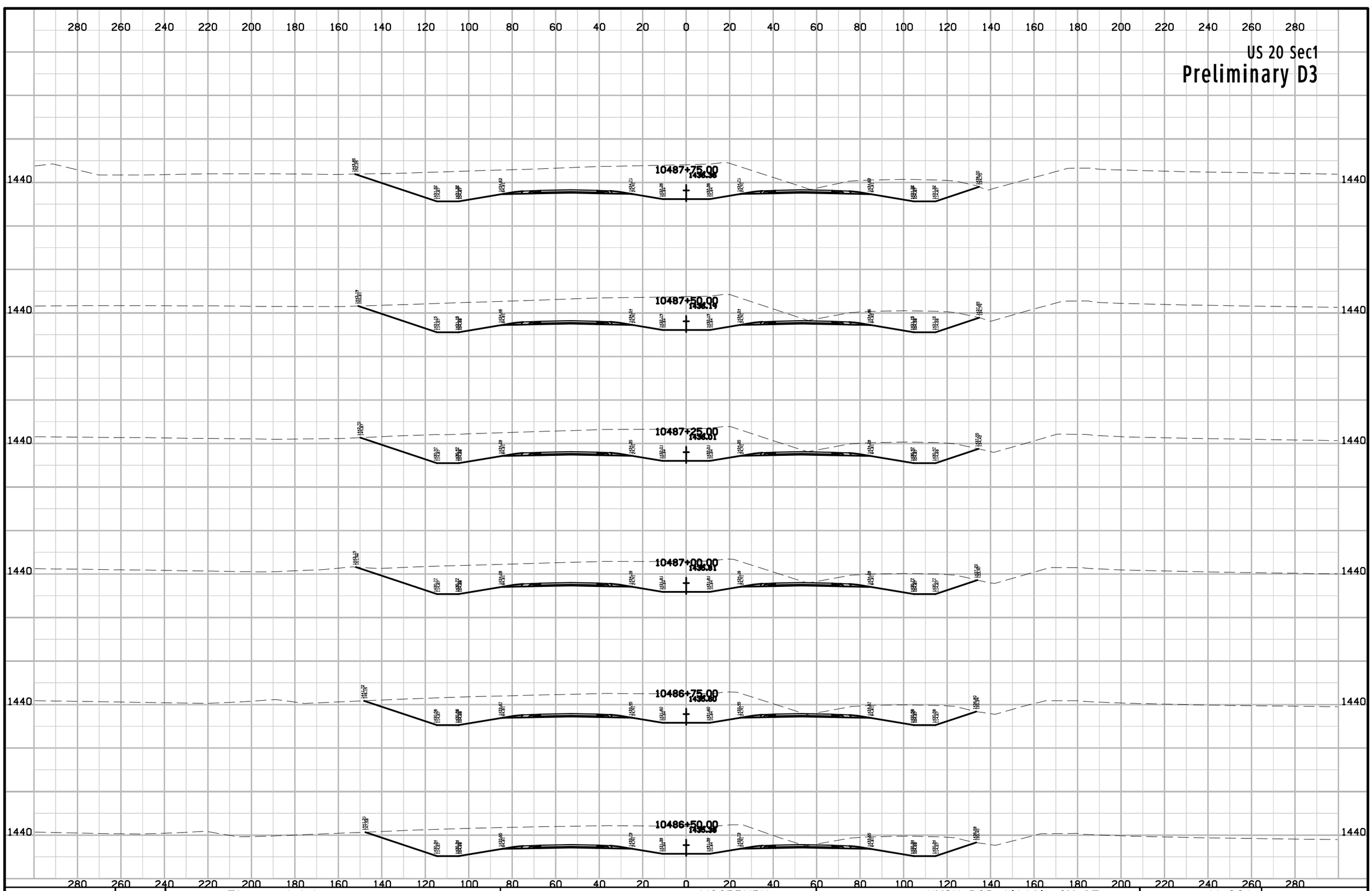


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.220

2:20:08 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3



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

2:20:09 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

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

1440

10489+25.00
1437.14

1440

1440

10489+00.00
1437.04

1440

1440

10488+75.00
1436.93

1440

1440

10488+50.00
1436.81

1440

1440

10488+25.00
1436.67

1440

1440

10488+00.00
1436.52

1440

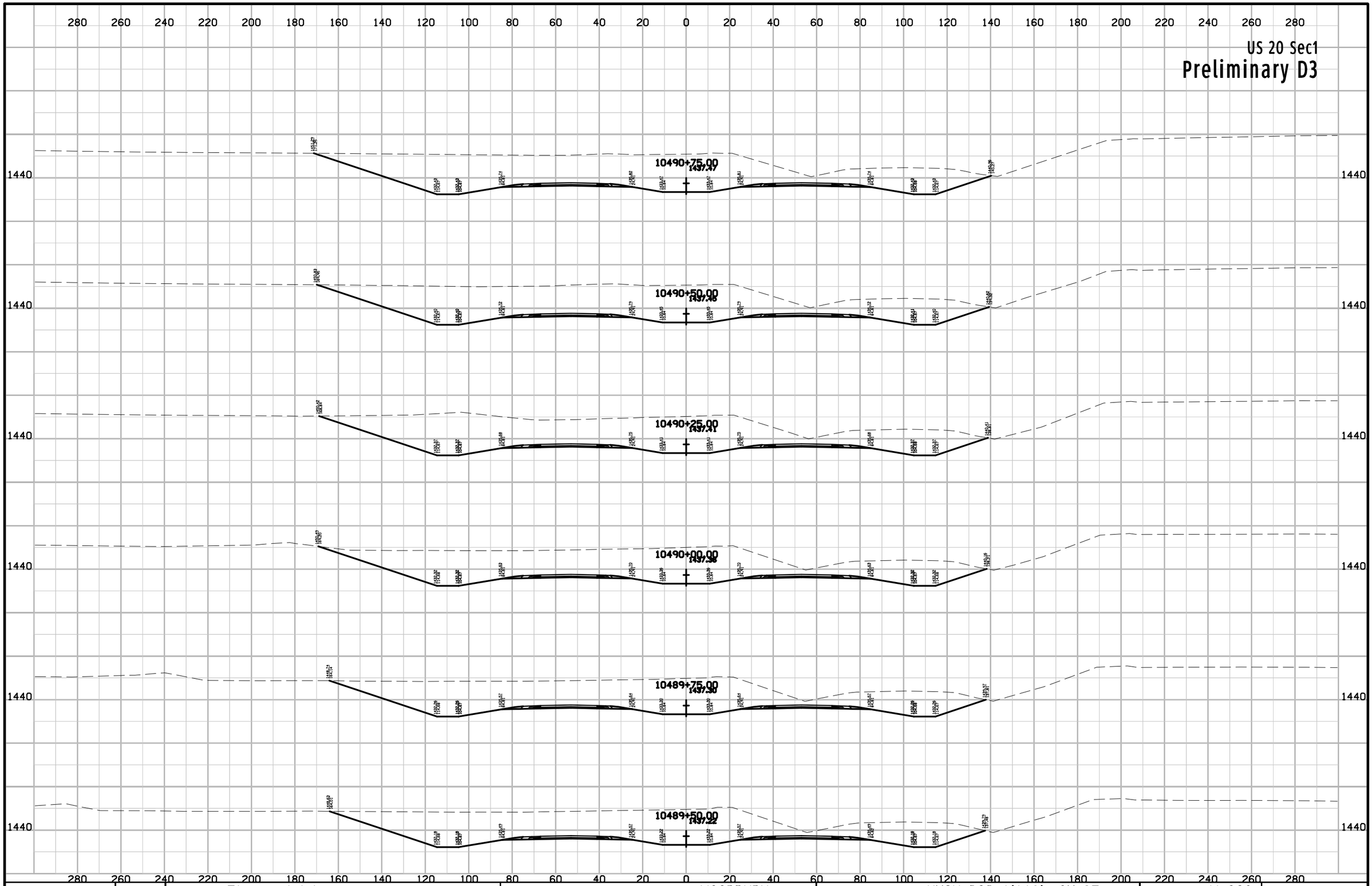
280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

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

2:20:10 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

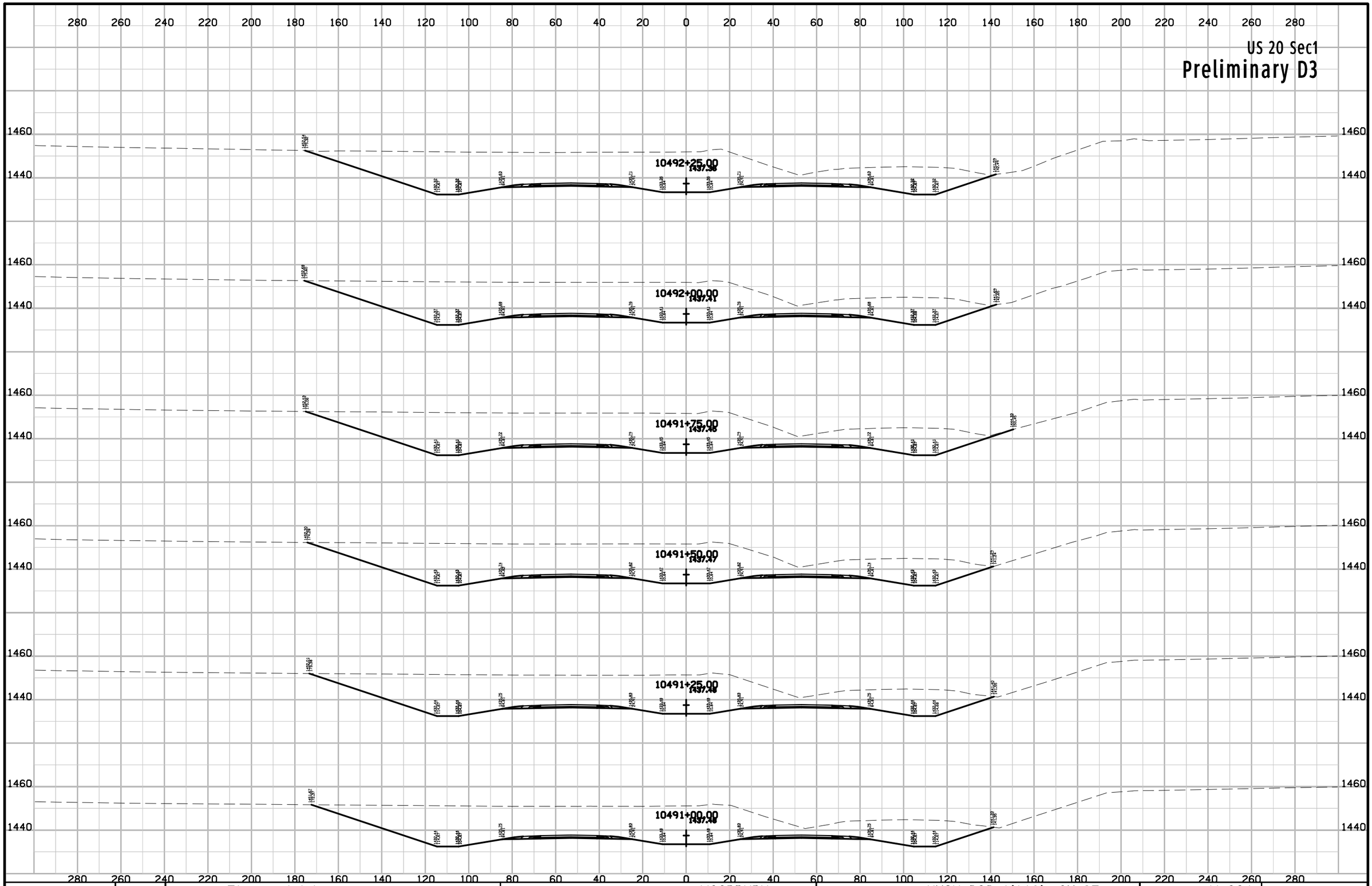


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.223

2:20:11 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

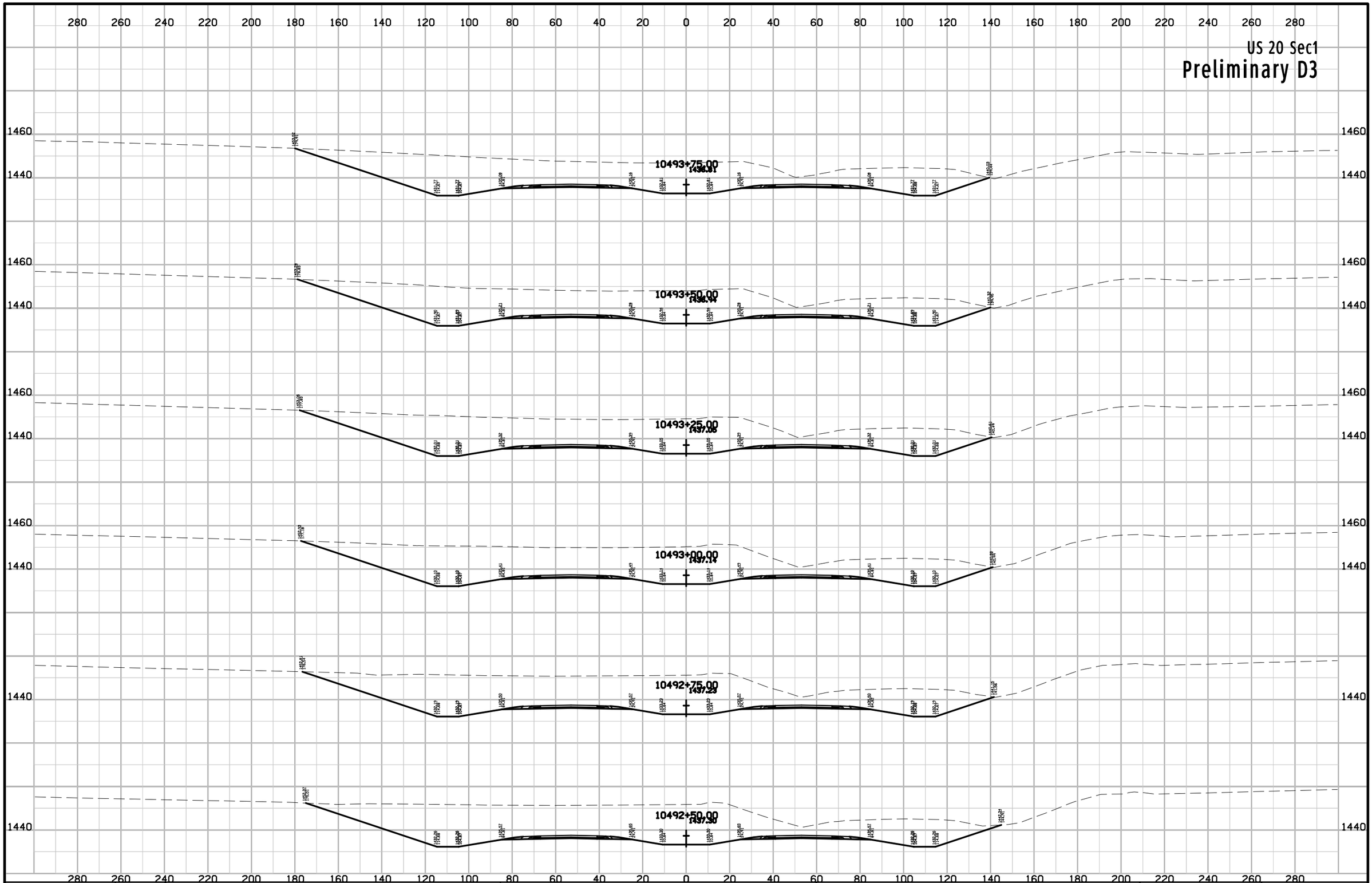


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.224

2:20:12 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

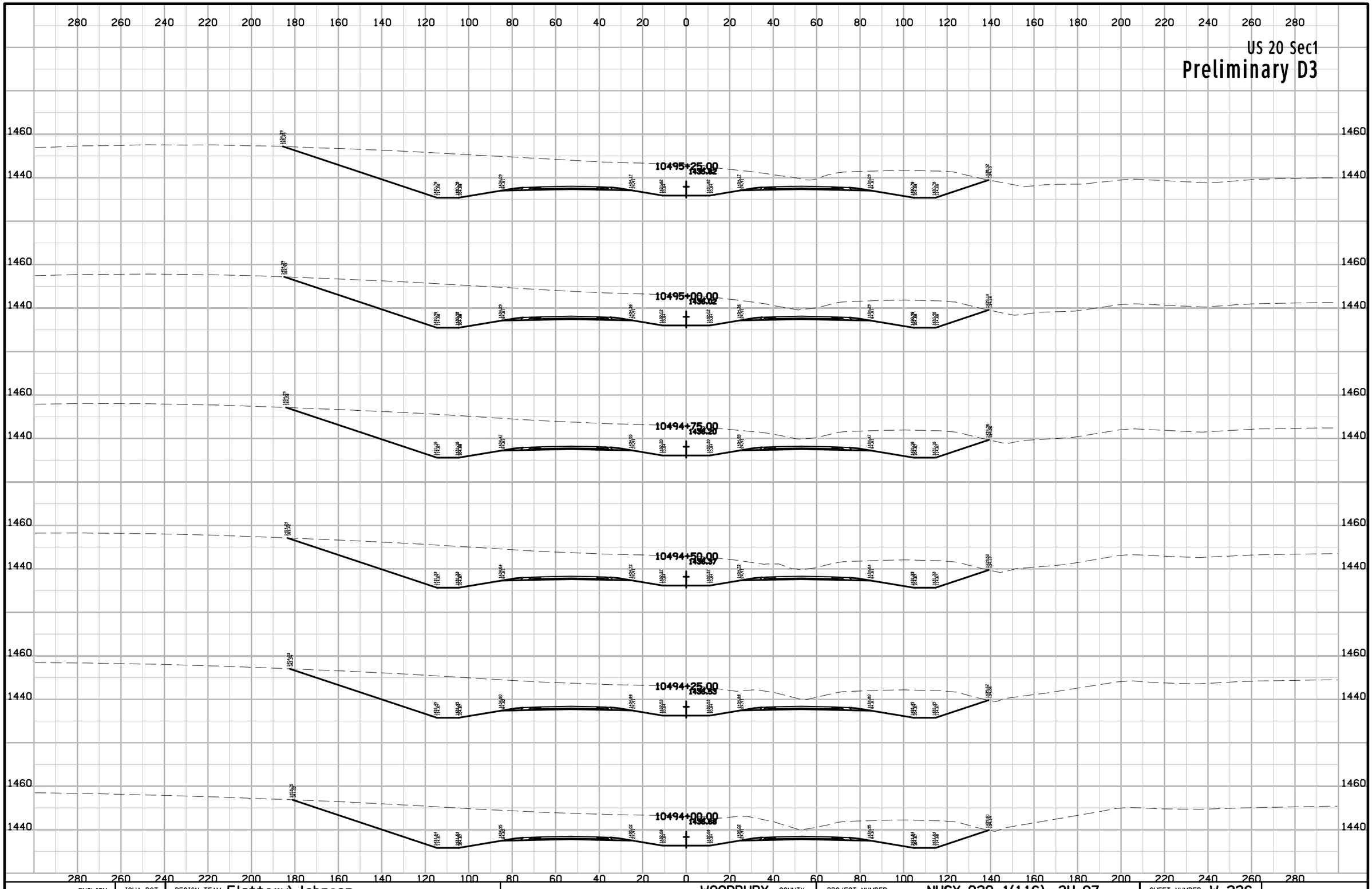


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.225

2:20:12 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

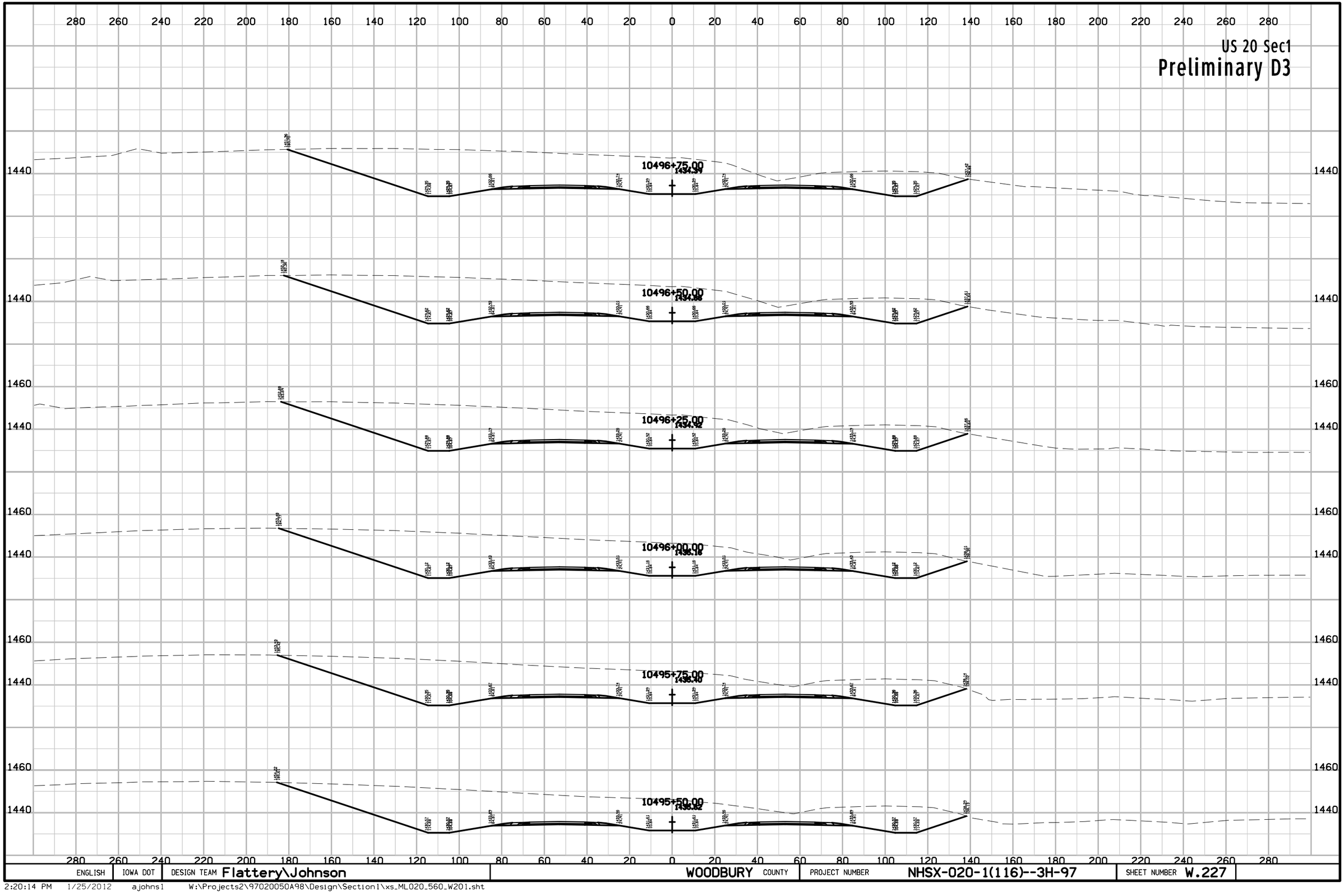


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.226

2:20:13 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

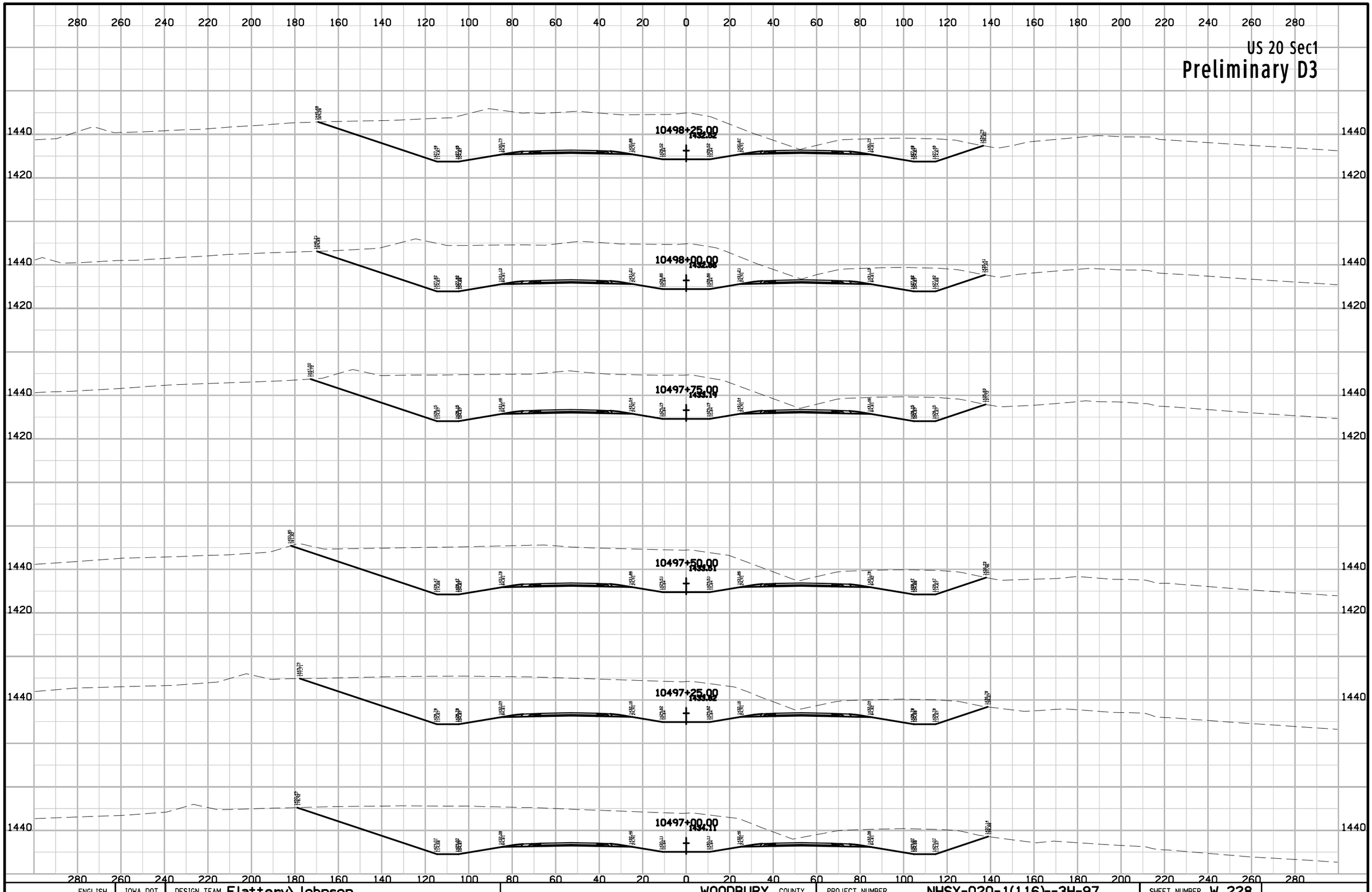


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.227

2:20:14 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

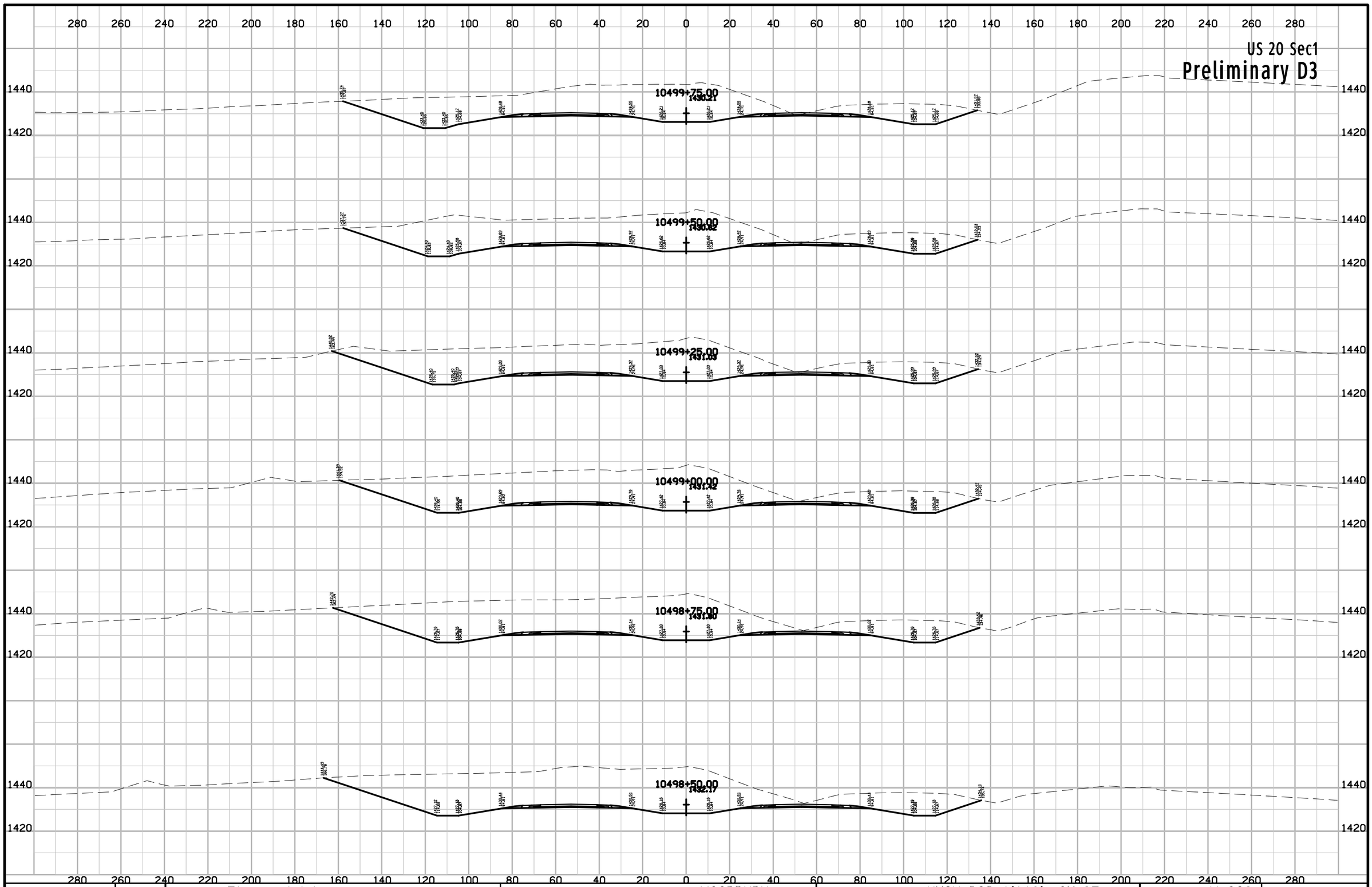


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.228

2:20:15 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

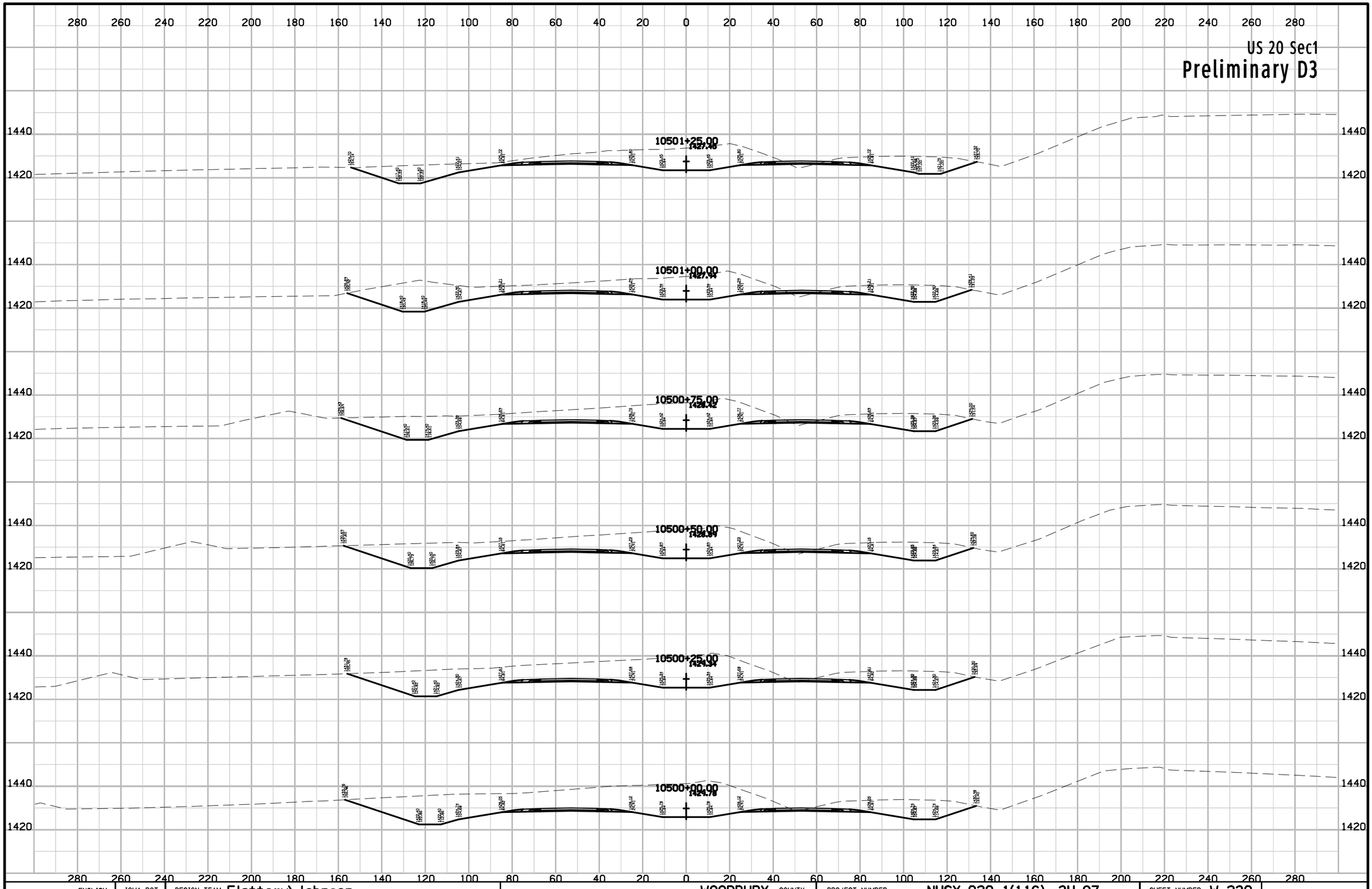


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.229

2:20:16 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

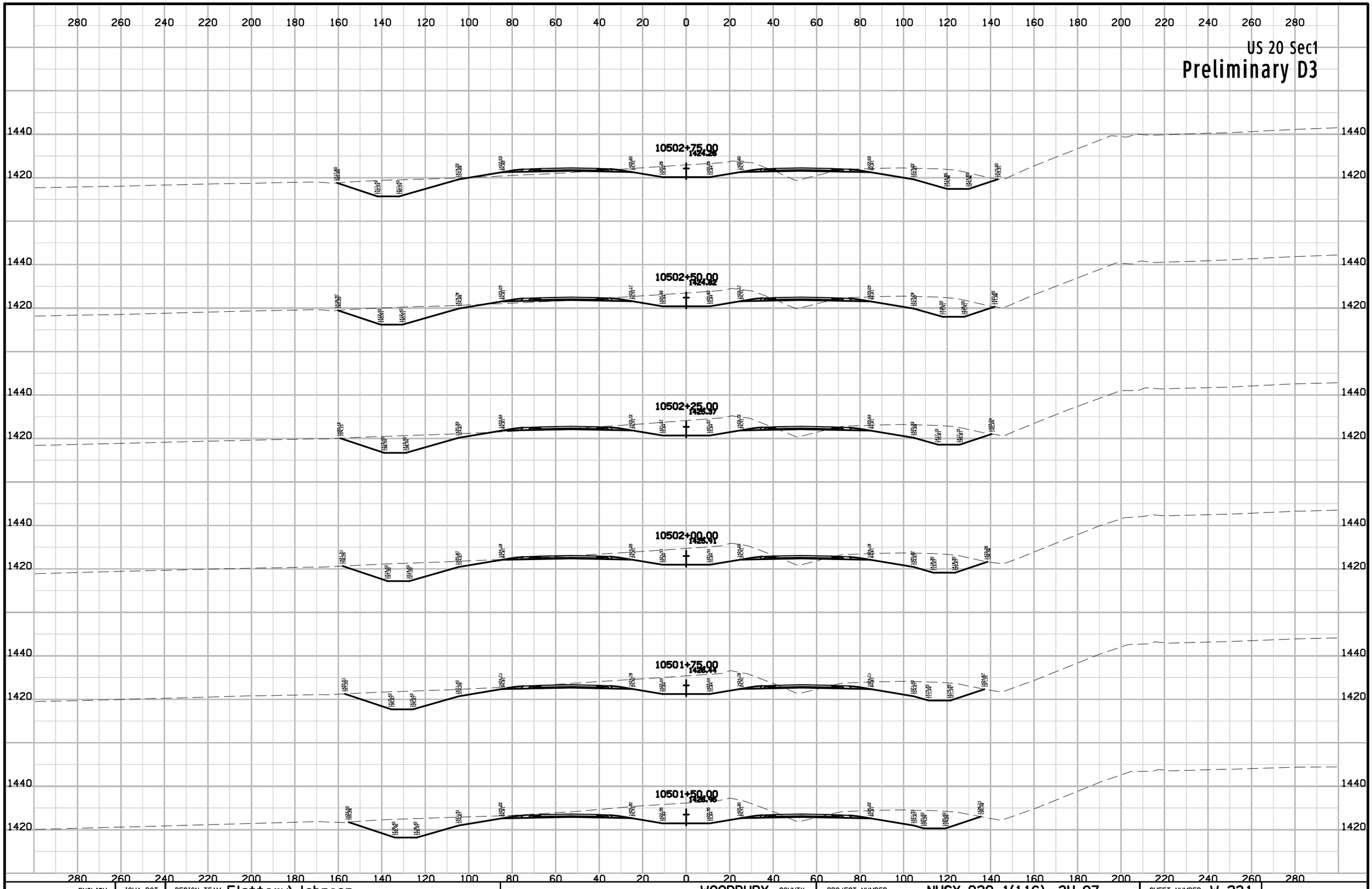


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.230

2:20:17 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

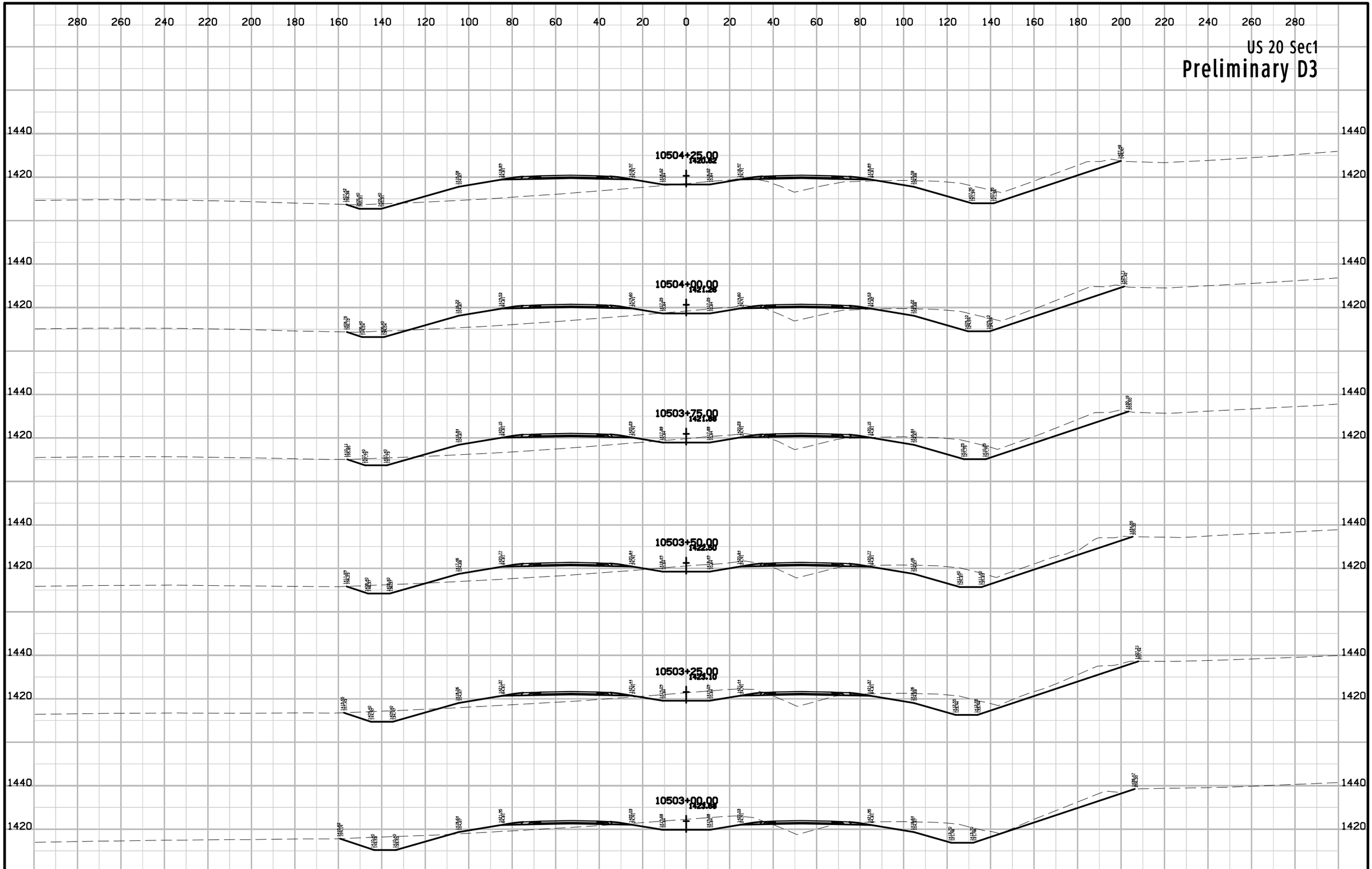


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.231

2:20:18 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.232

2:20:19 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

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

10505+75.00
1416.88

10505+50.00
1417.28

10505+25.00
1417.98

10505+00.00
1418.84

10504+75.00
1419.31

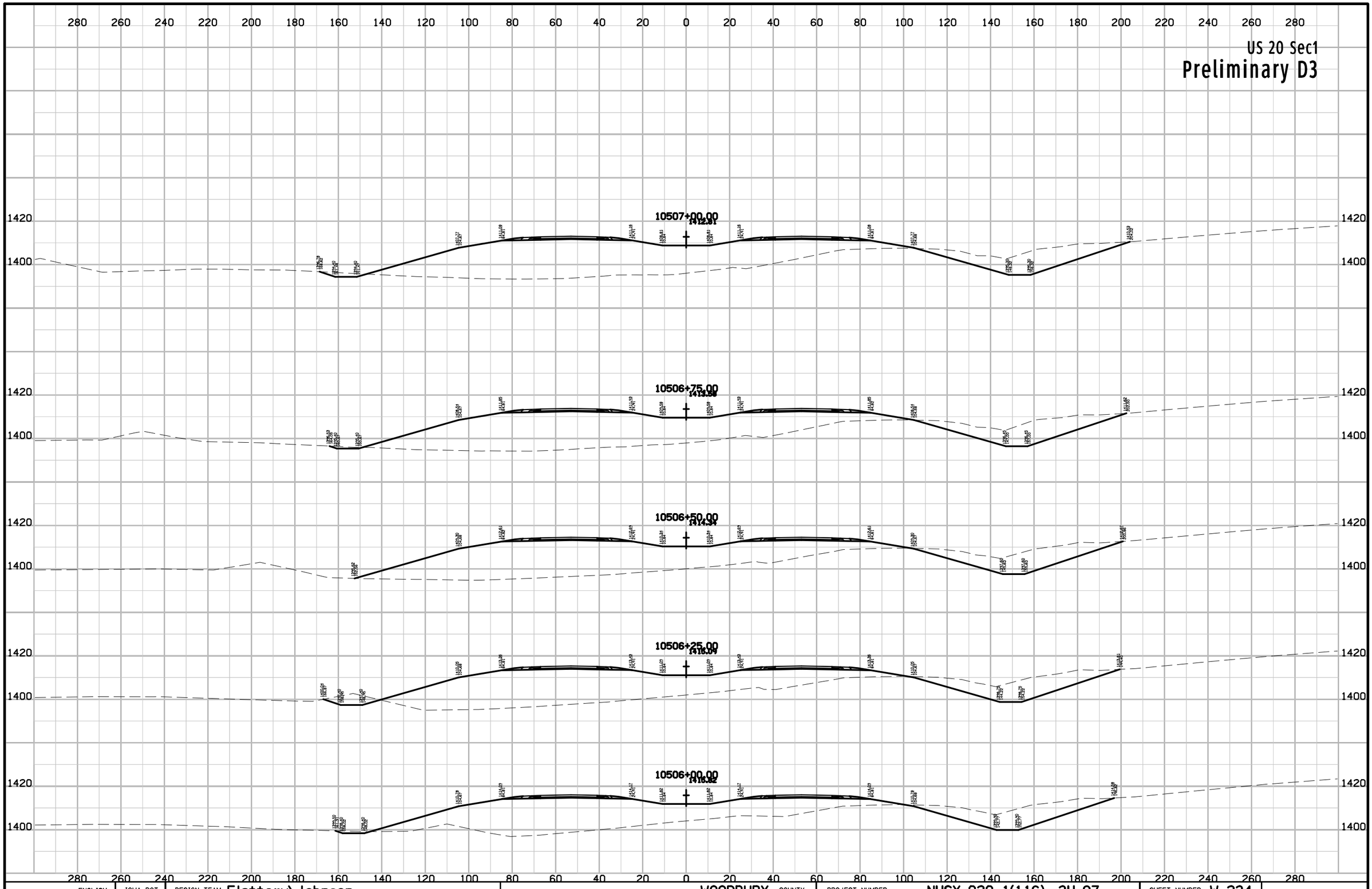
10504+50.00
1419.97

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.233

2:20:20 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

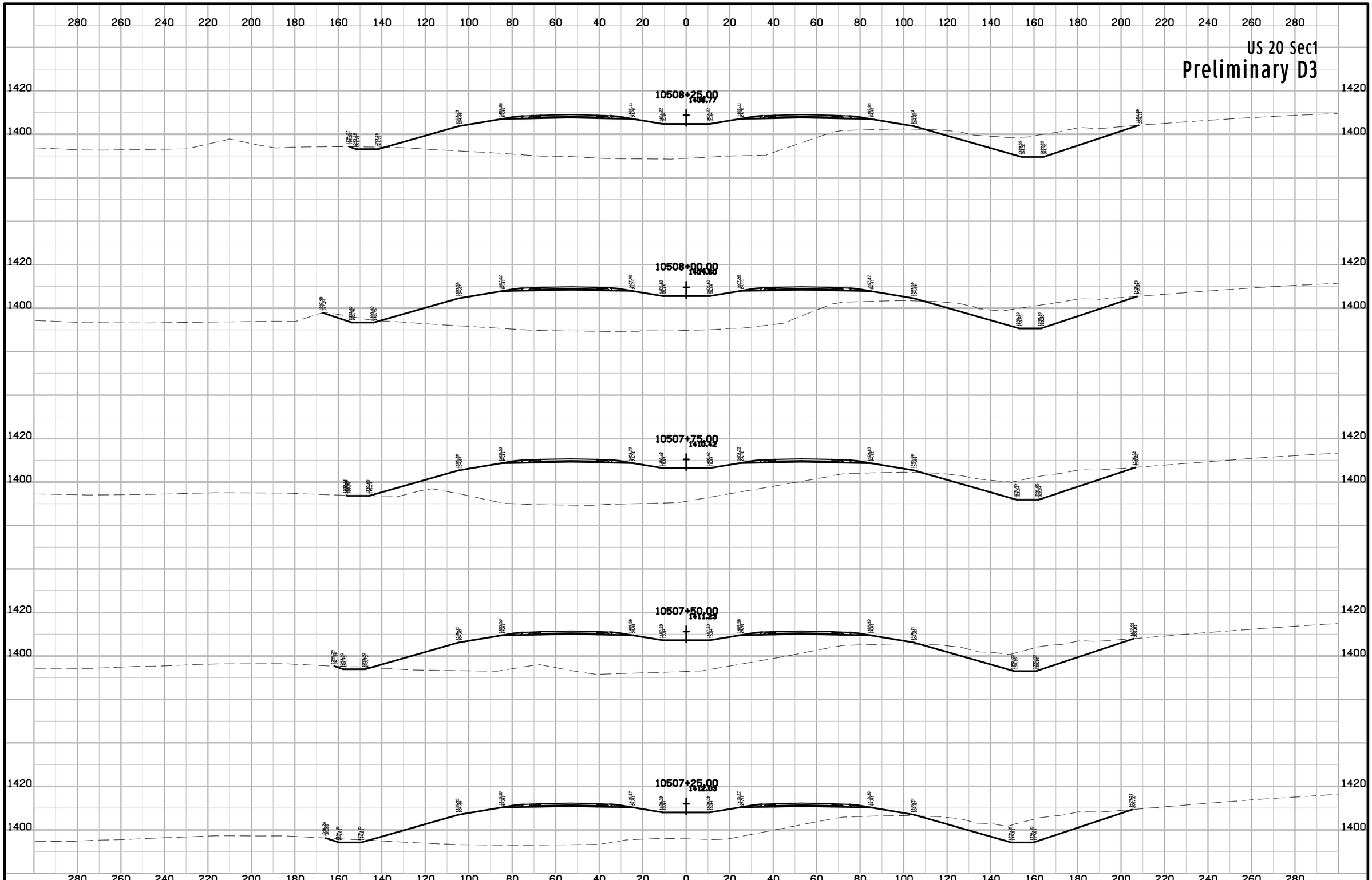


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.234

2:20:21 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

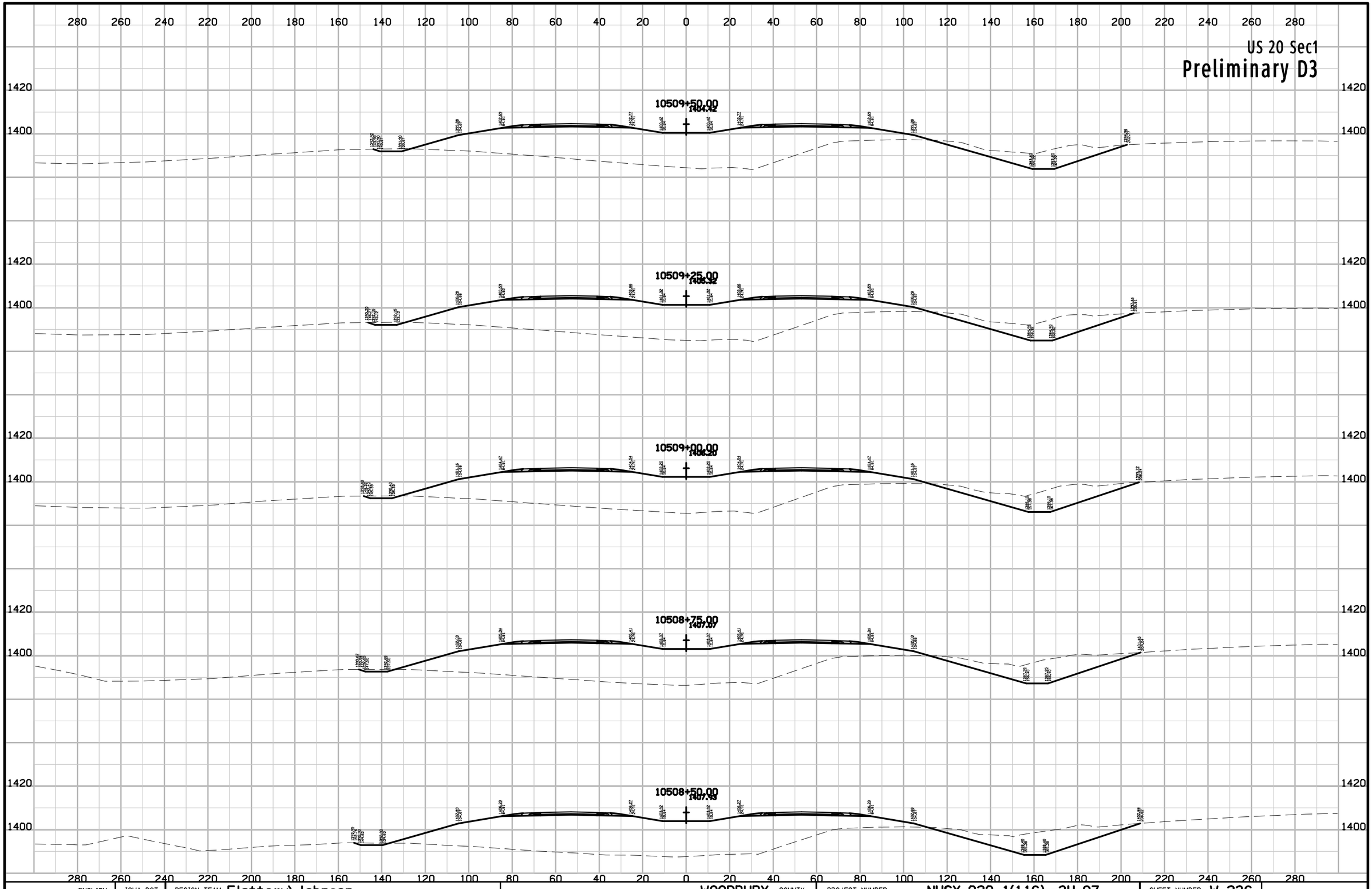


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.235

2:20:21 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

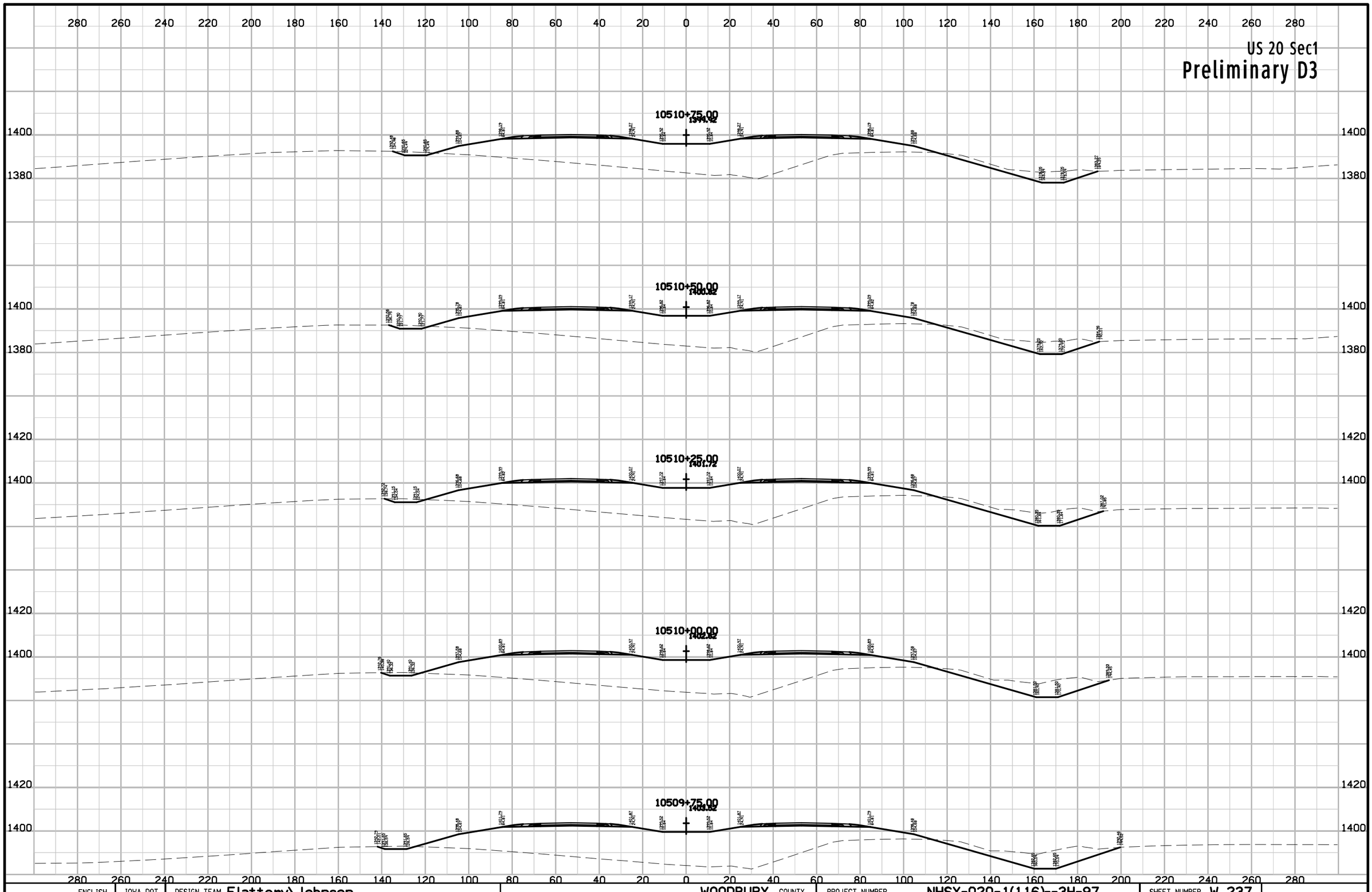


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.236

2:20:22 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

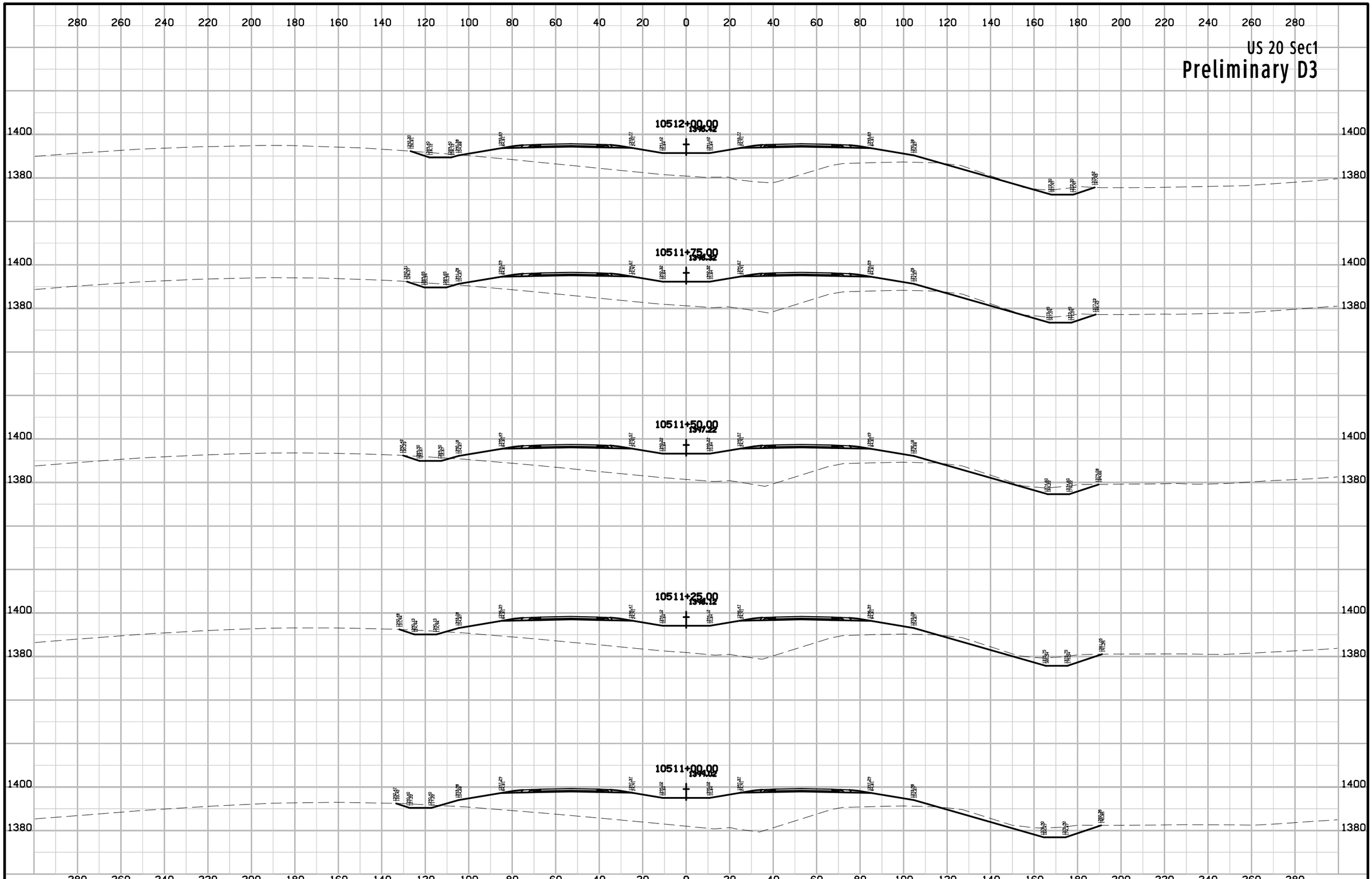


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.237

2:20:23 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

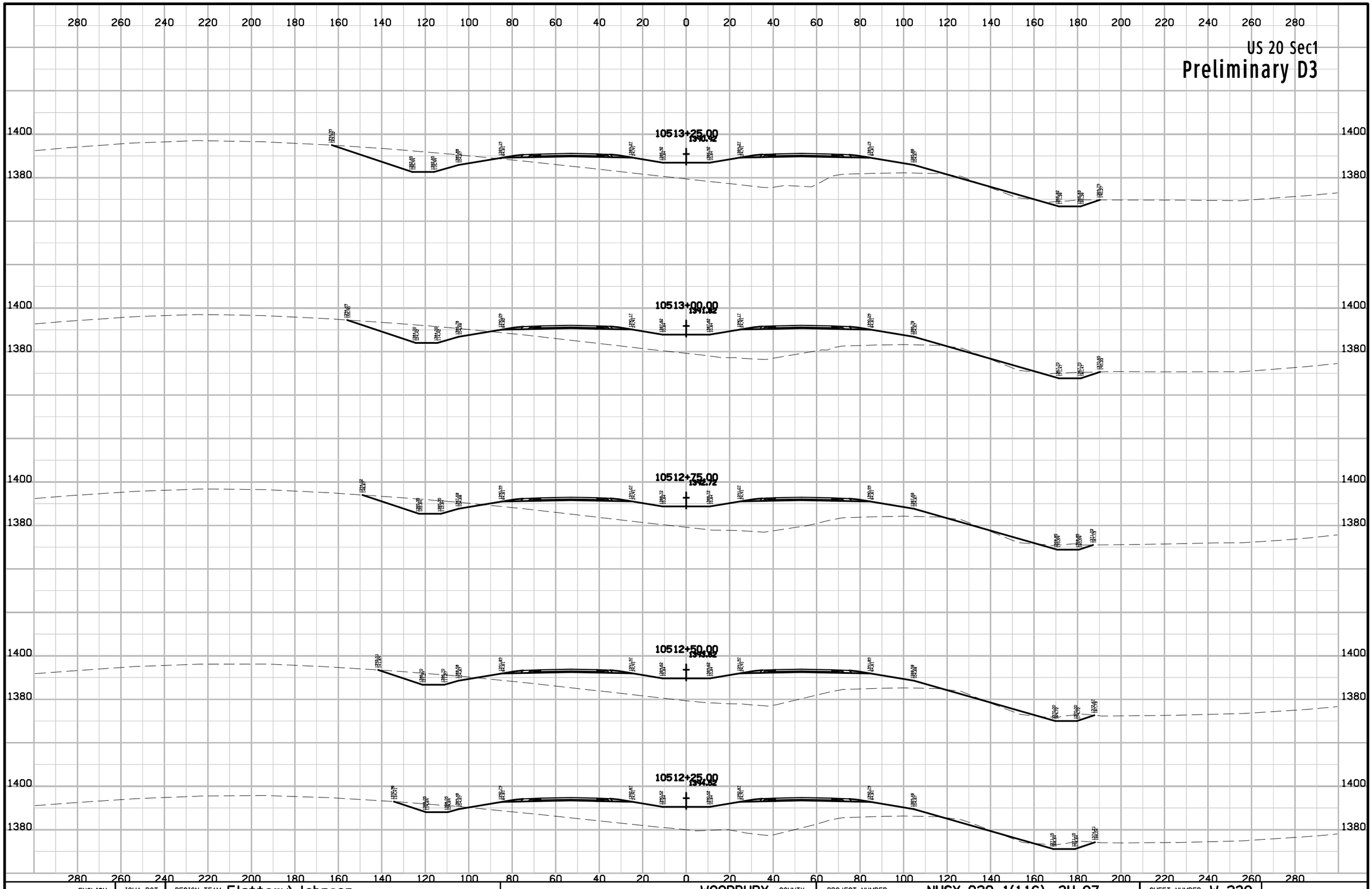


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.238

2:20:24 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.239

2:20:25 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

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

10514+50.00
1386.42

10514+25.00
1387.32

10514+00.00
1386.22

10513+75.00
1384.12

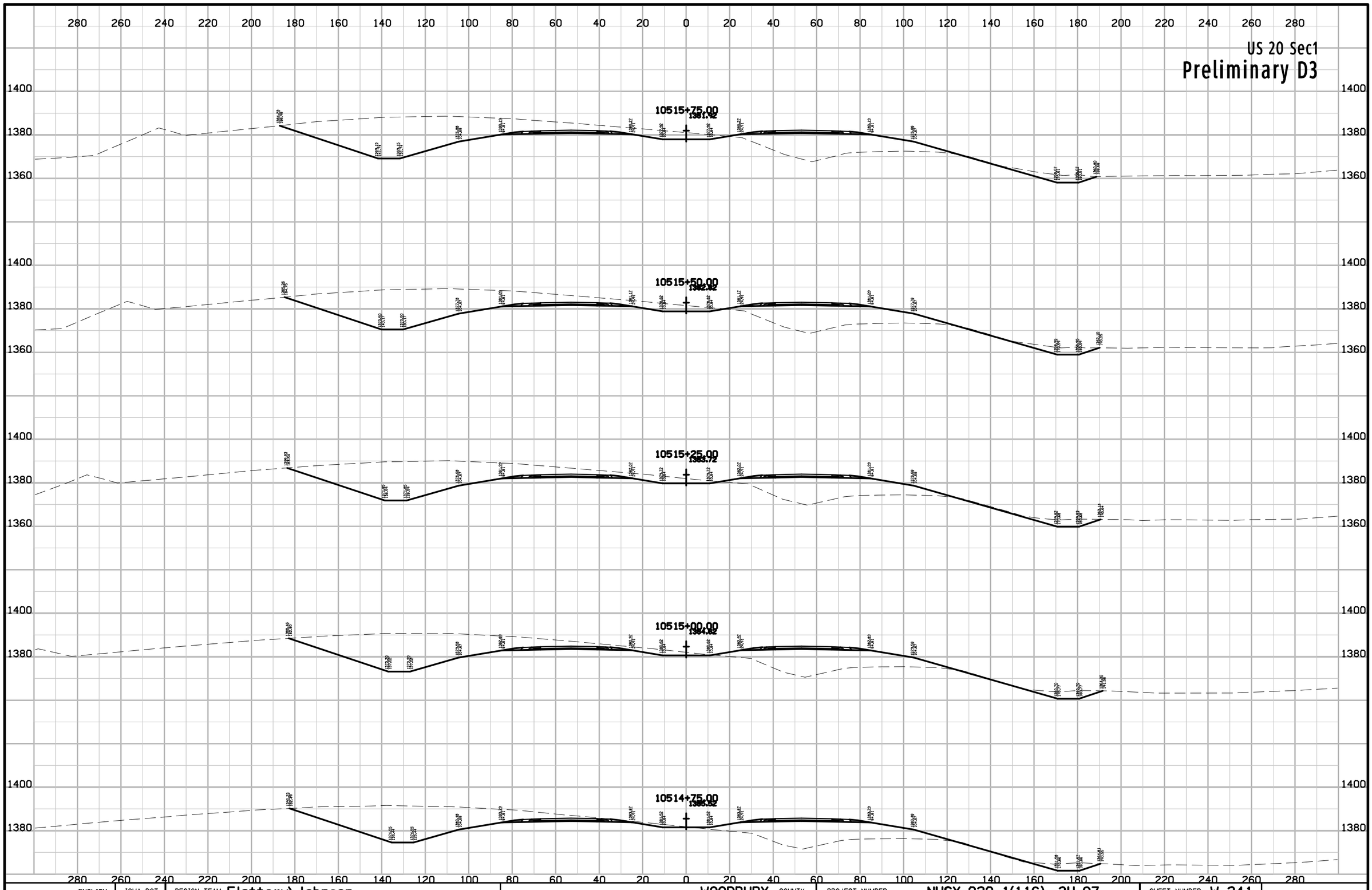
10513+50.00
1380.02

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.240

2:20:26 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

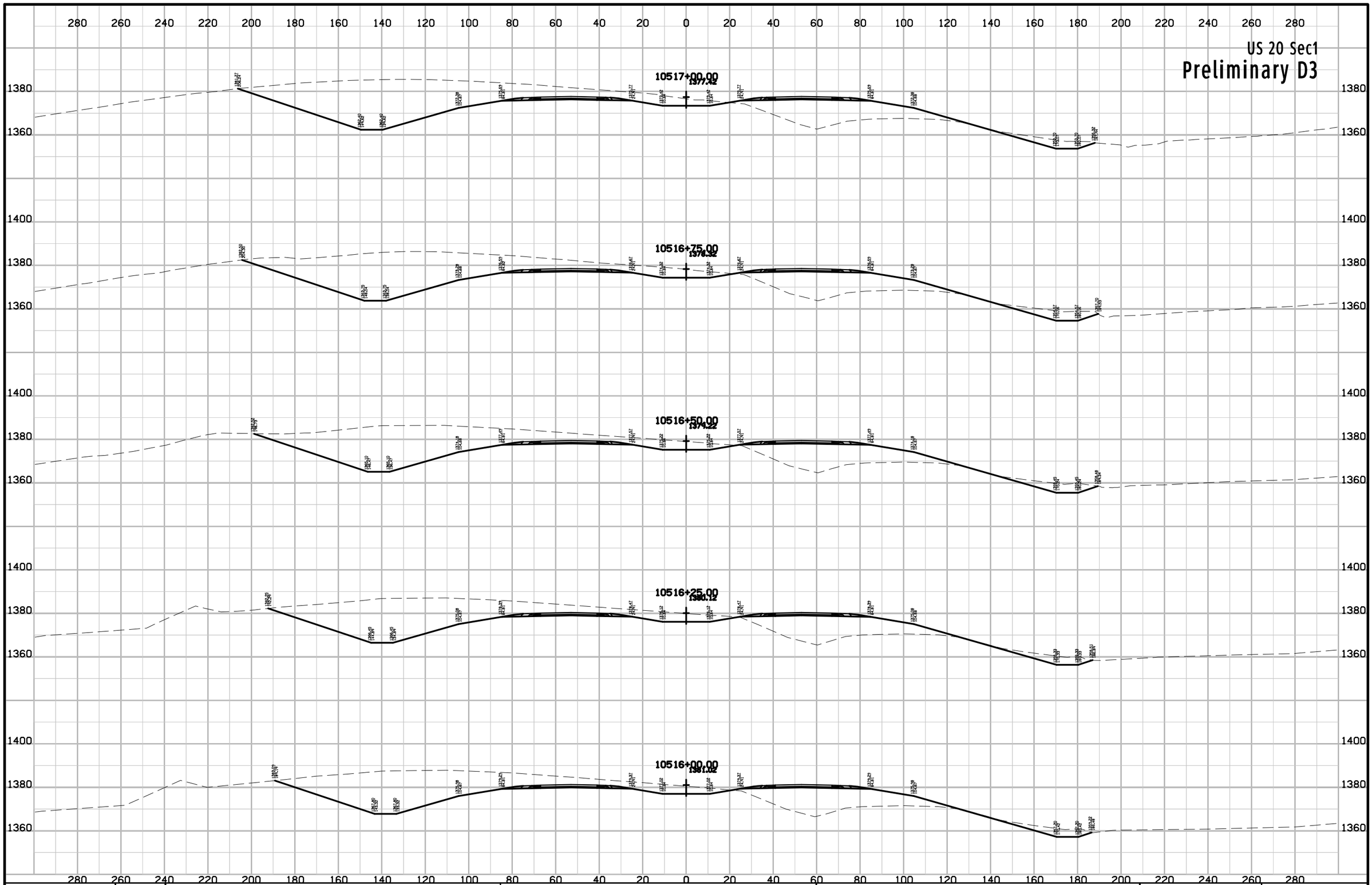


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.241

2:20:26 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

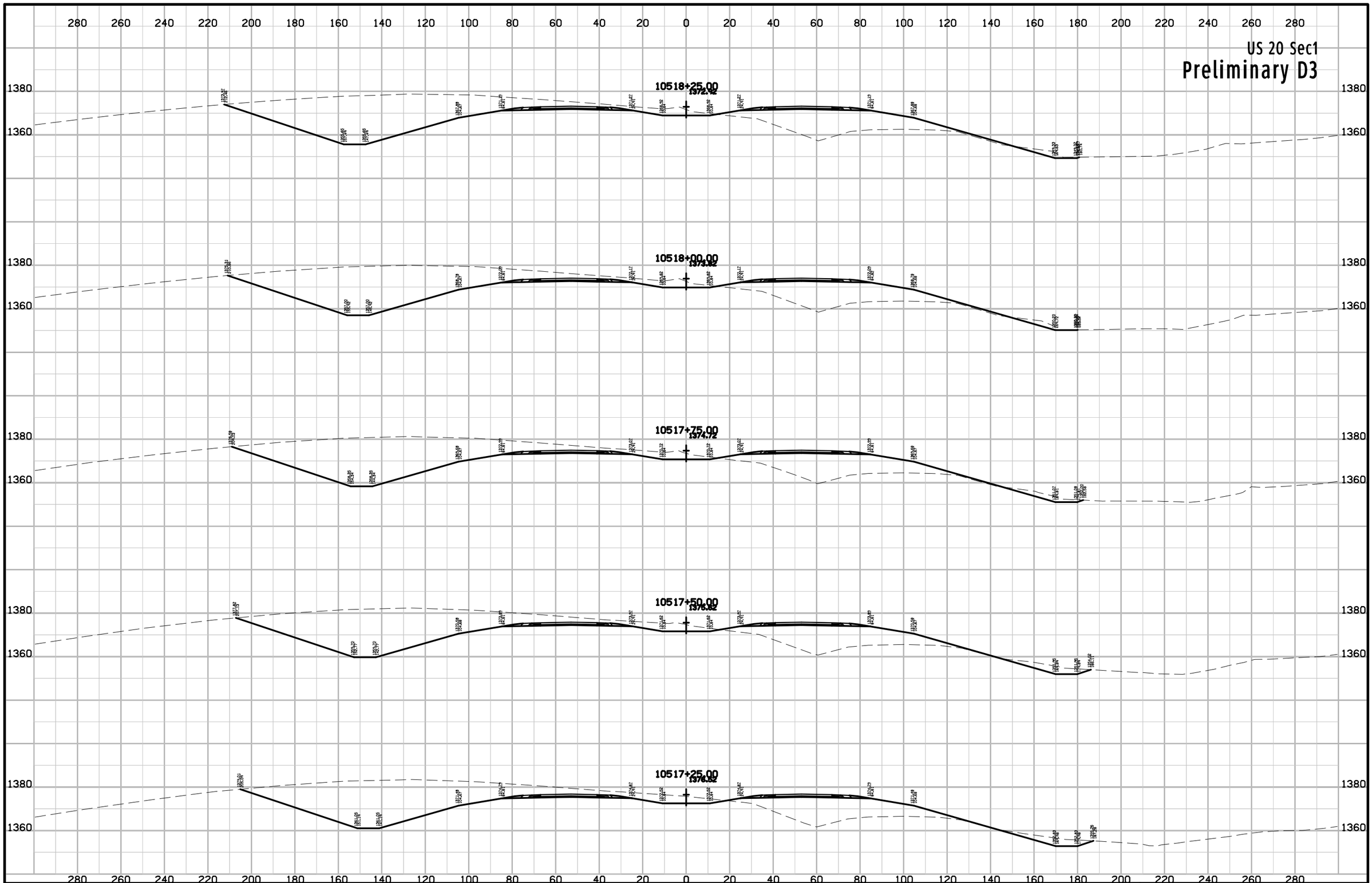


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.242

2:20:27 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

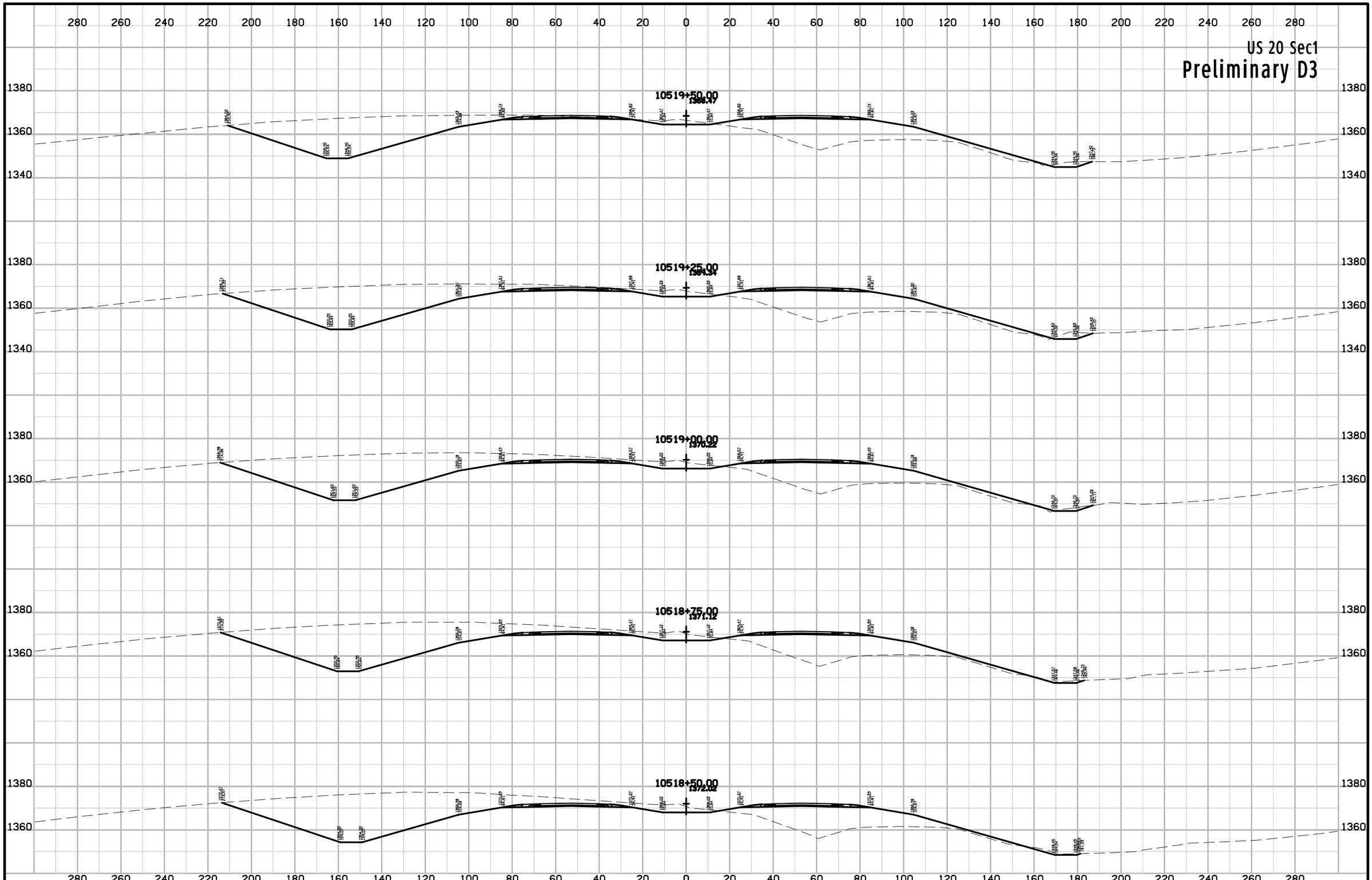


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.243

2:20:28 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

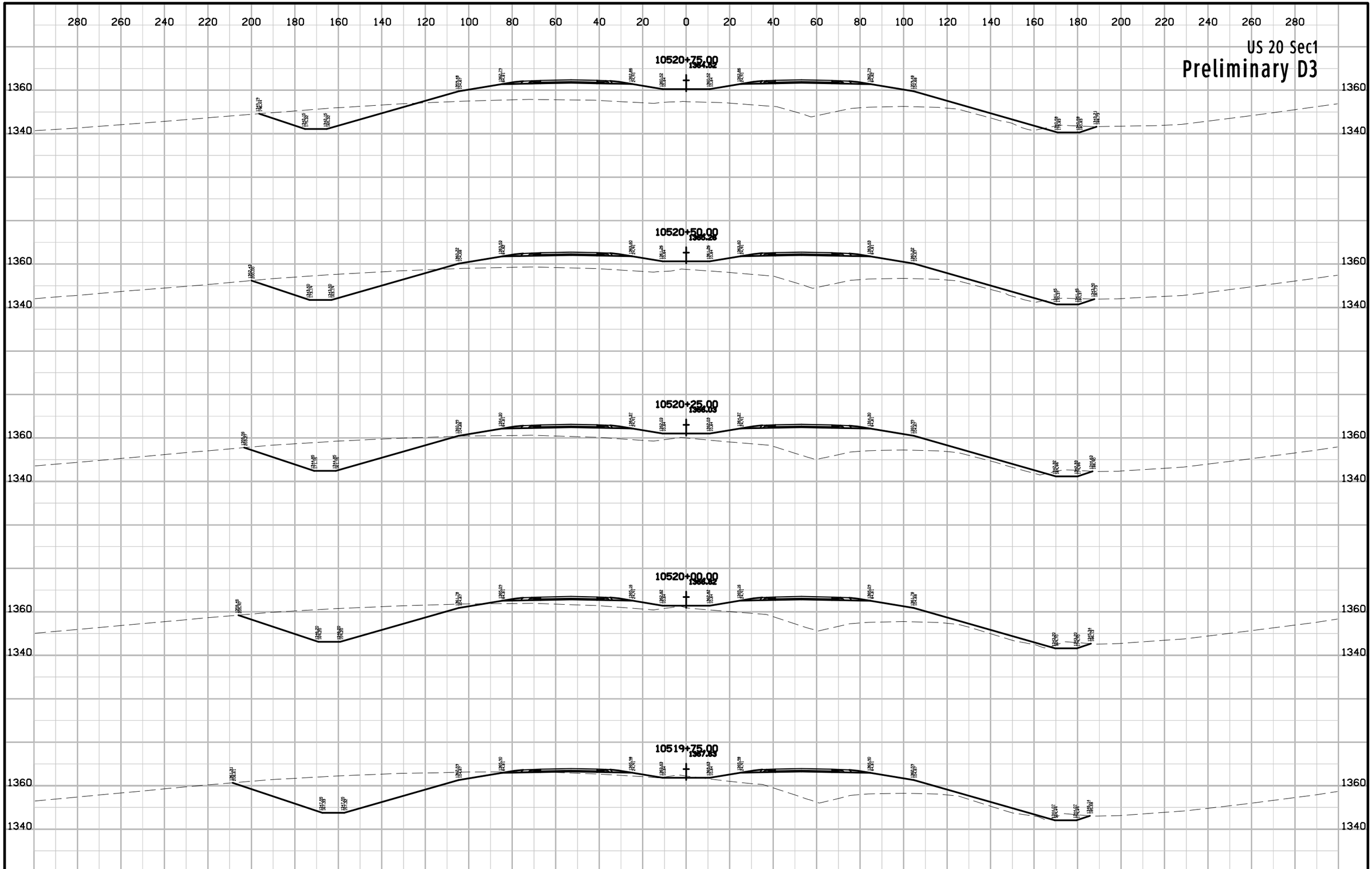


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.244

2:20:29 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

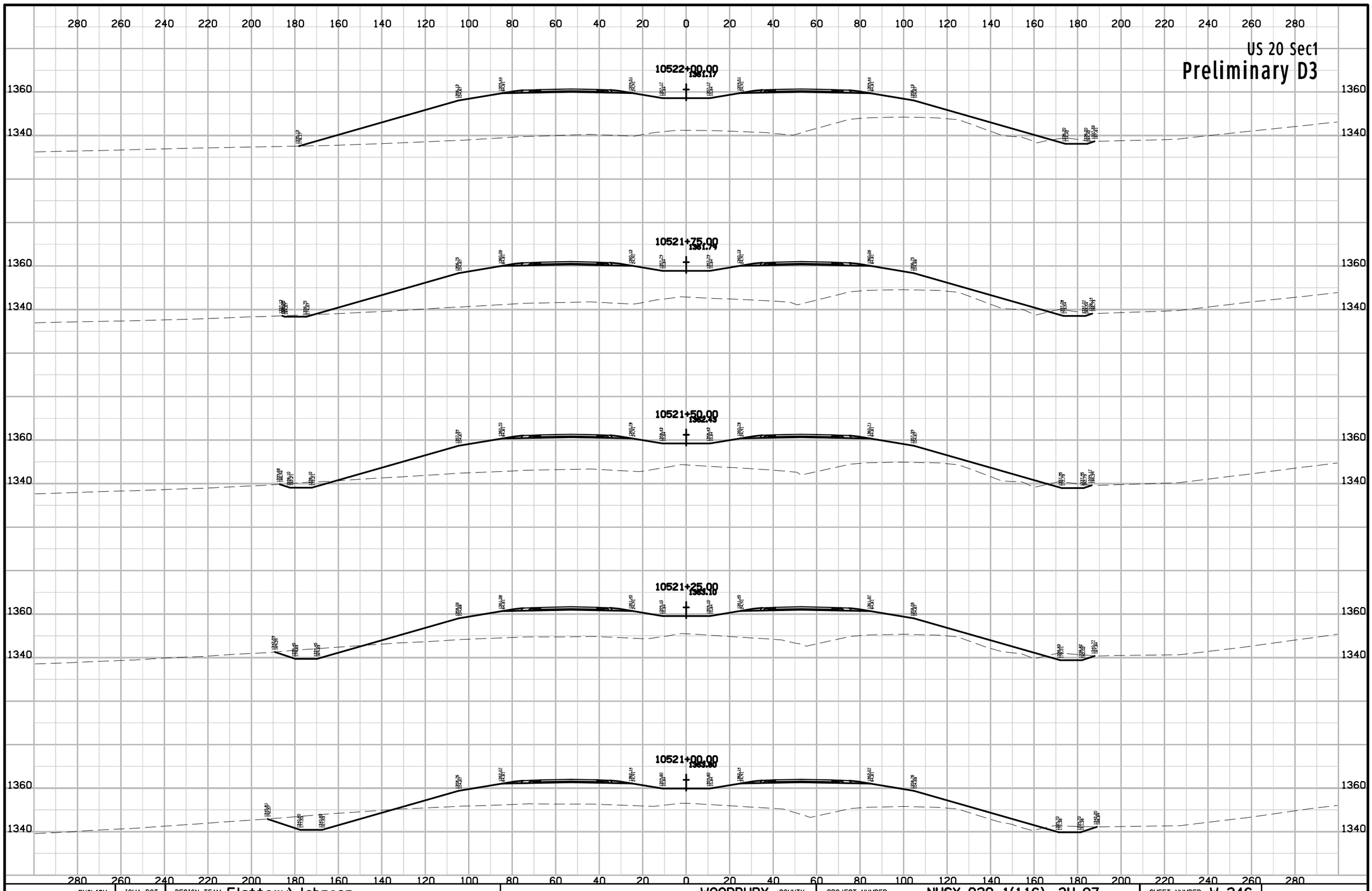


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.245

2:20:30 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

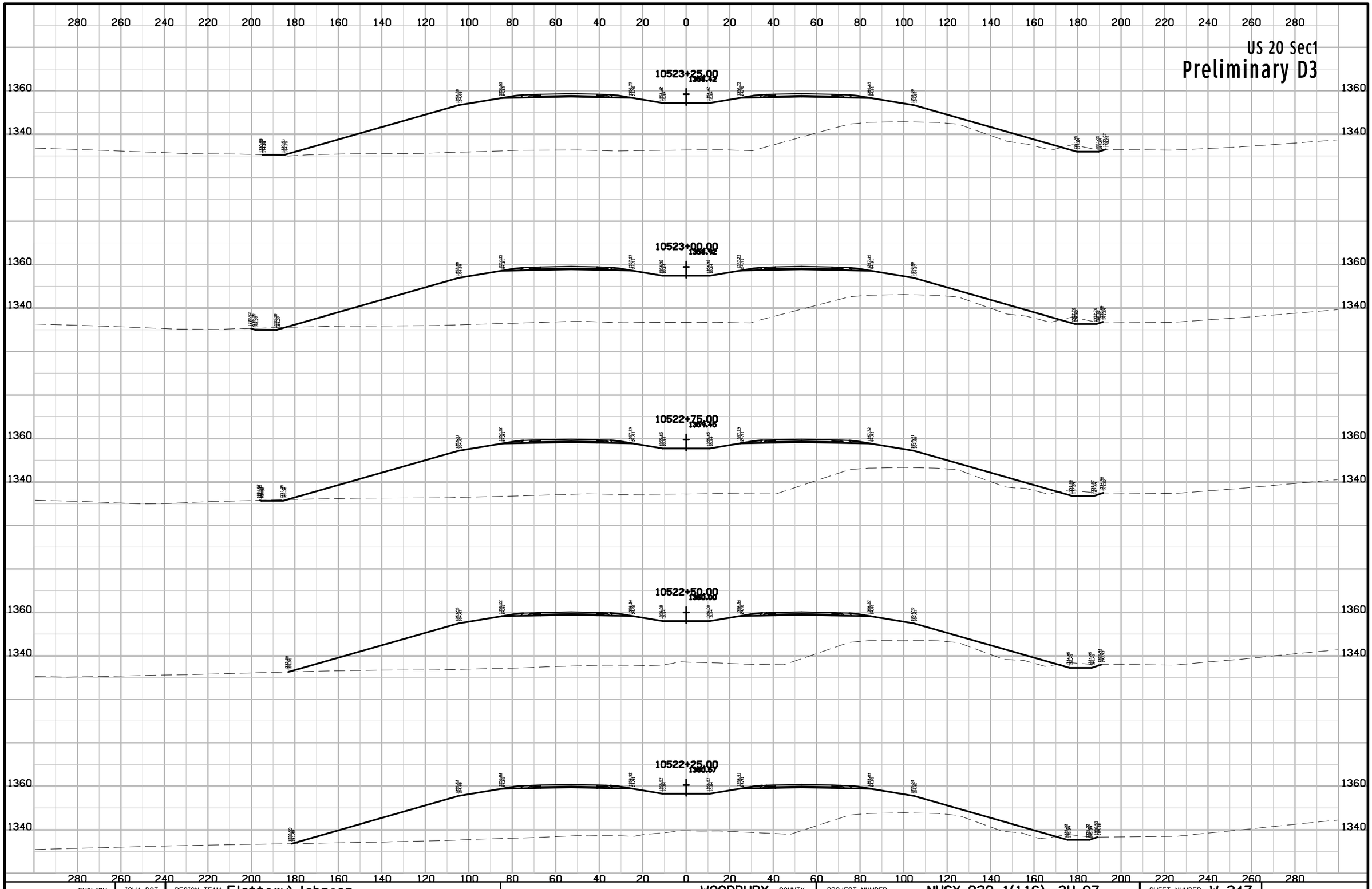


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.246

2:20:31 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

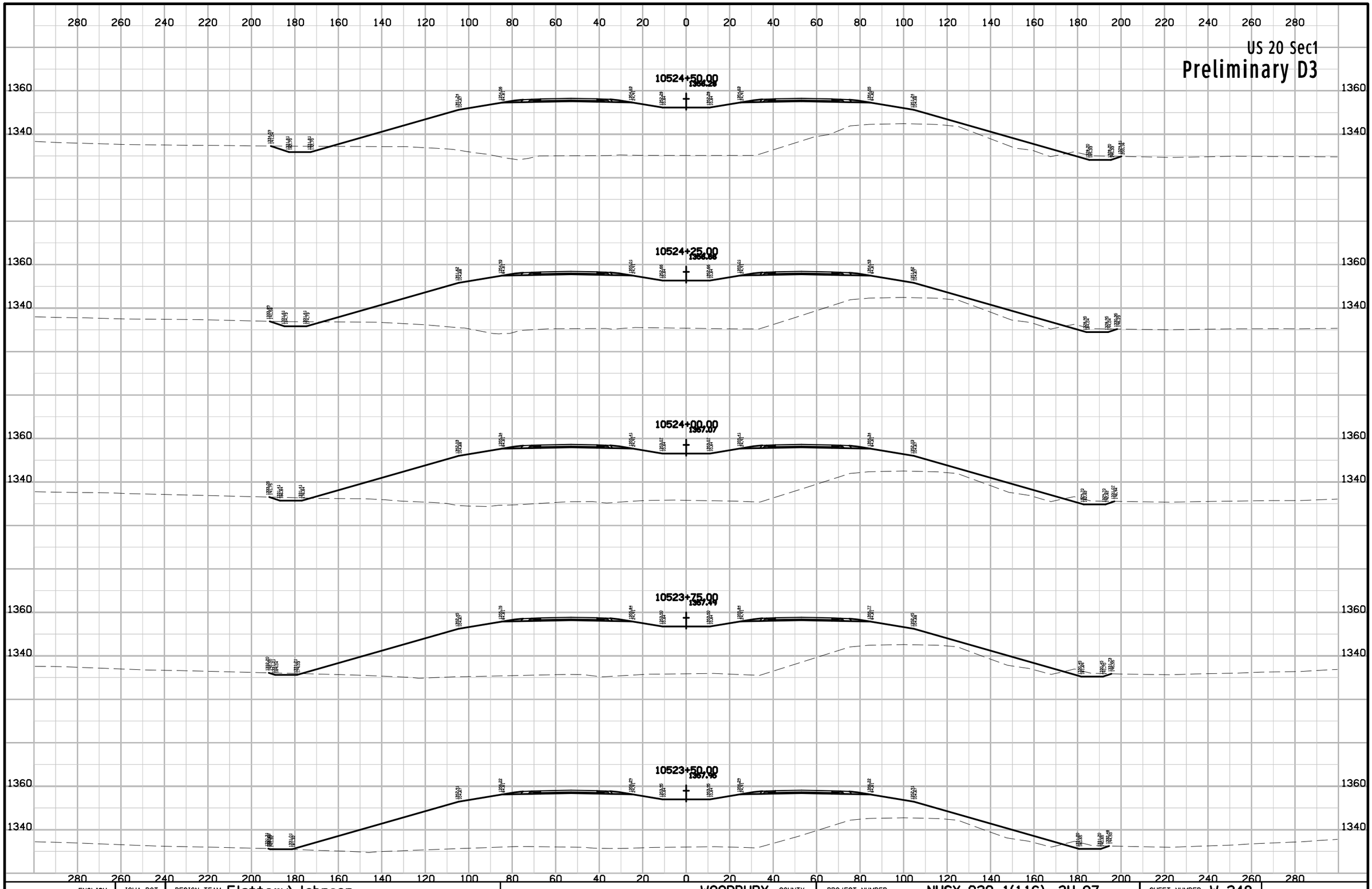


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.247

2:20:32 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

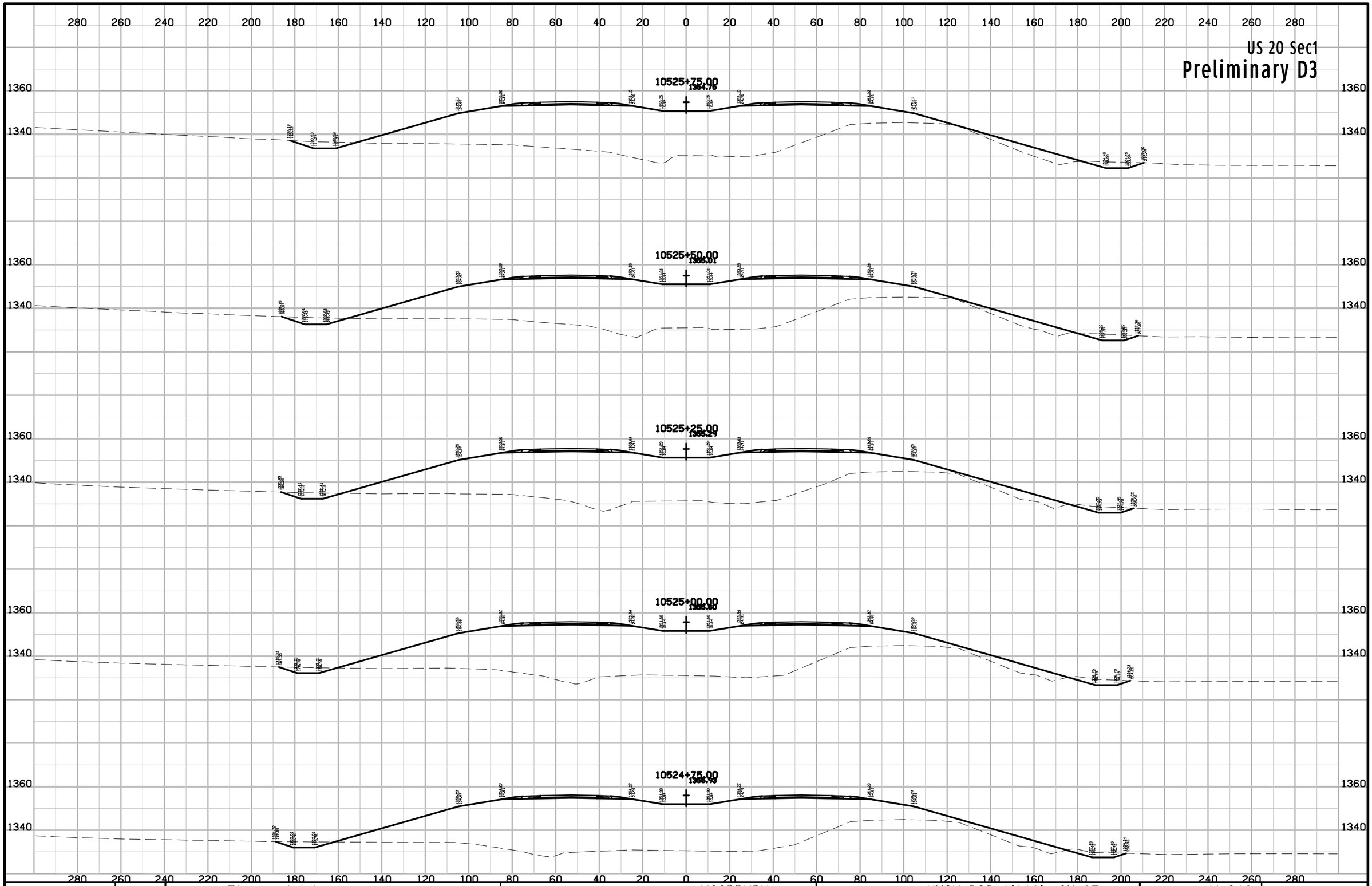


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.248

2:20:32 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.249

2:20:33 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

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

10526+75.00
1363.16

10526+50.00
1364.12

10526+25.00
1364.31

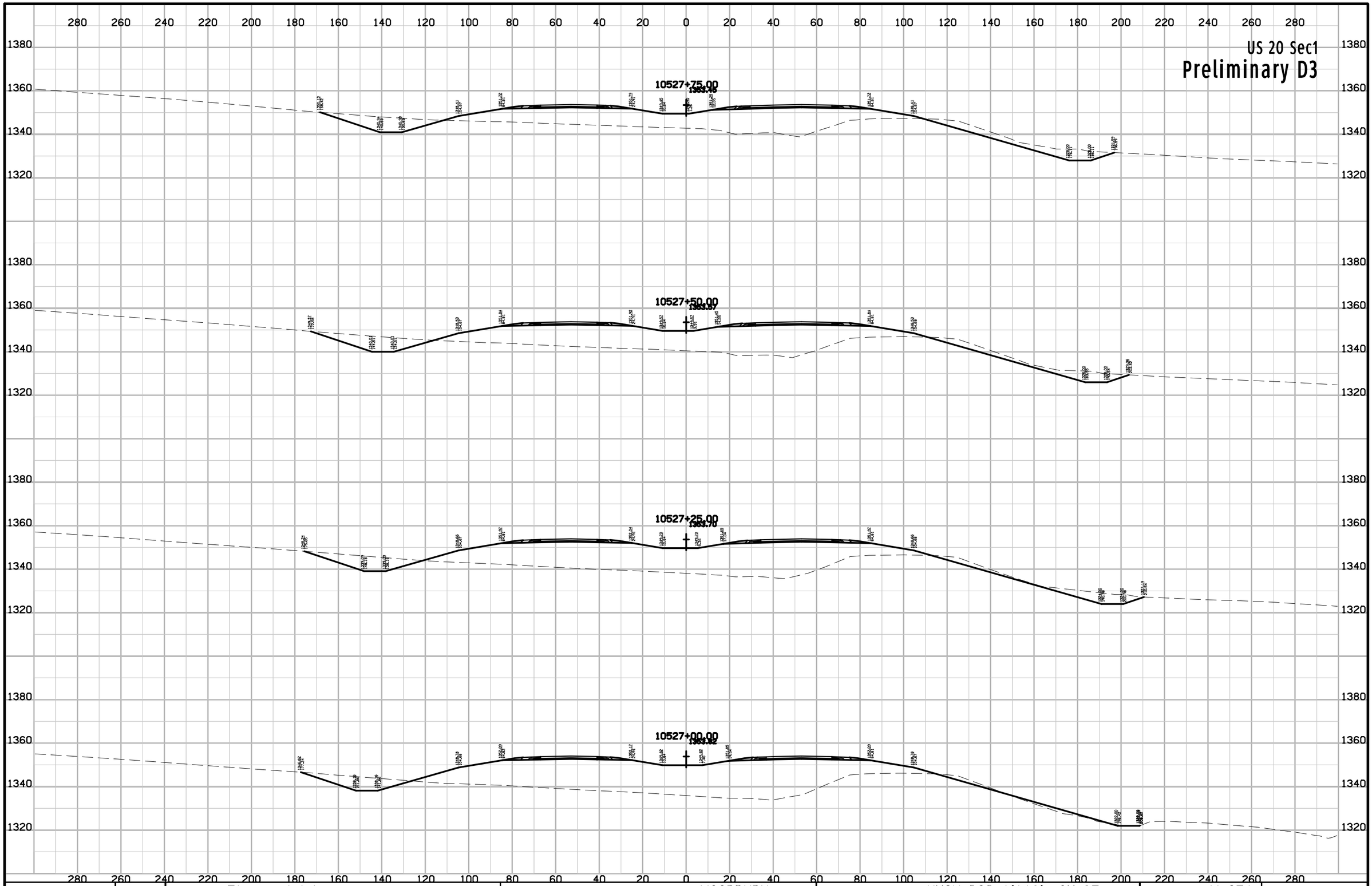
10526+00.00
1364.52

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.250

2:20:34 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

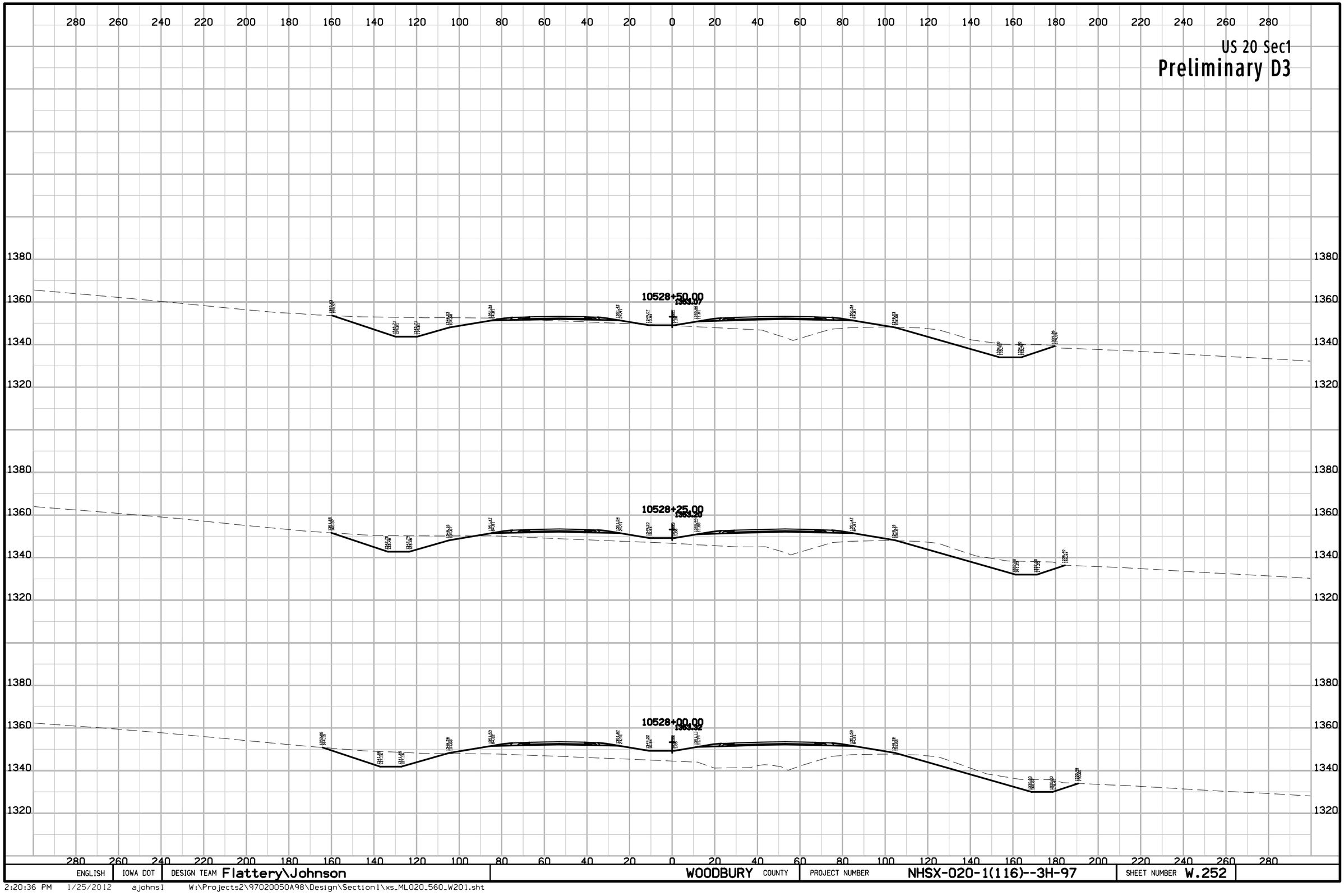


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.251

2:20:35 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

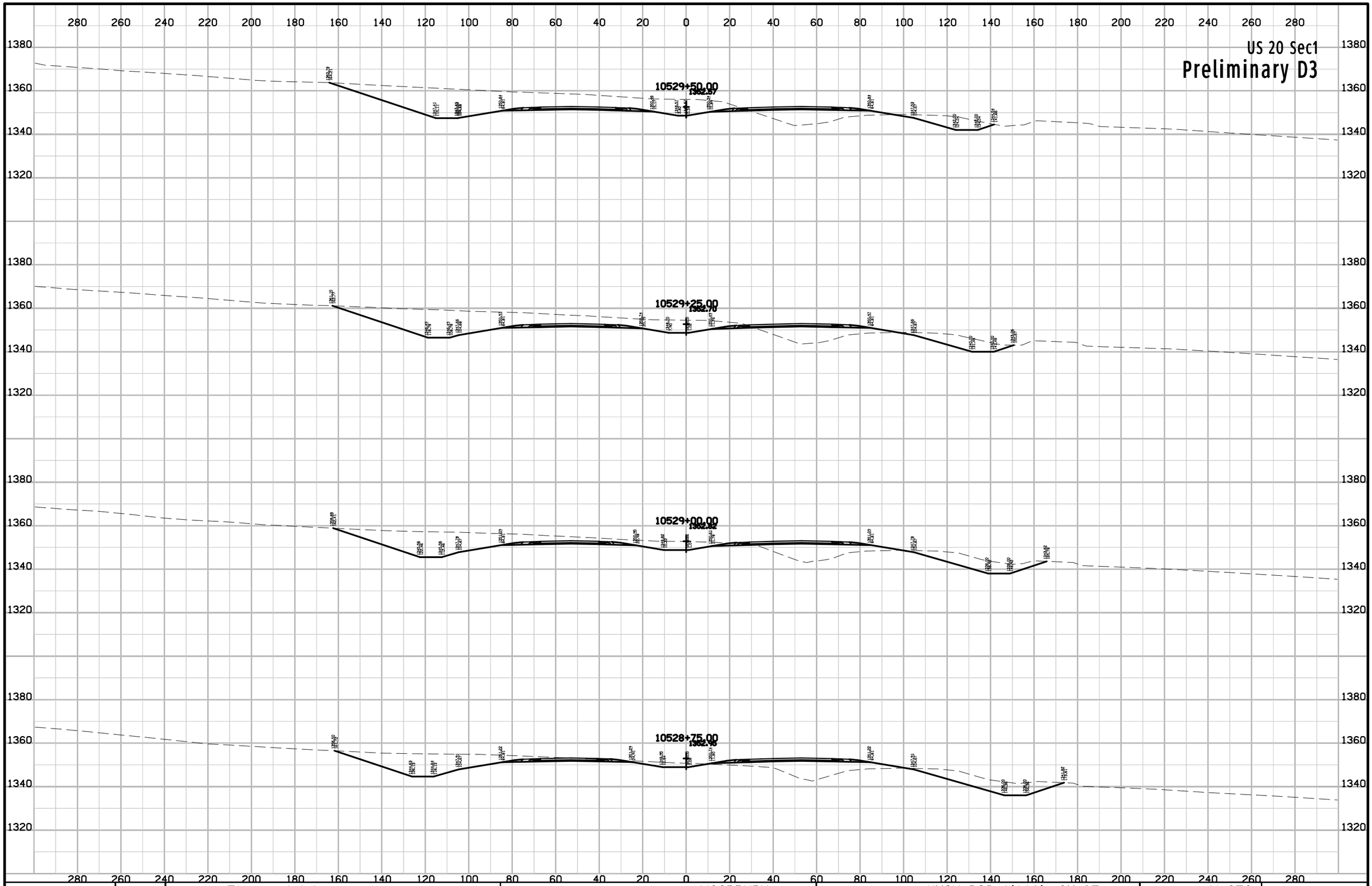


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.252

2:20:36 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

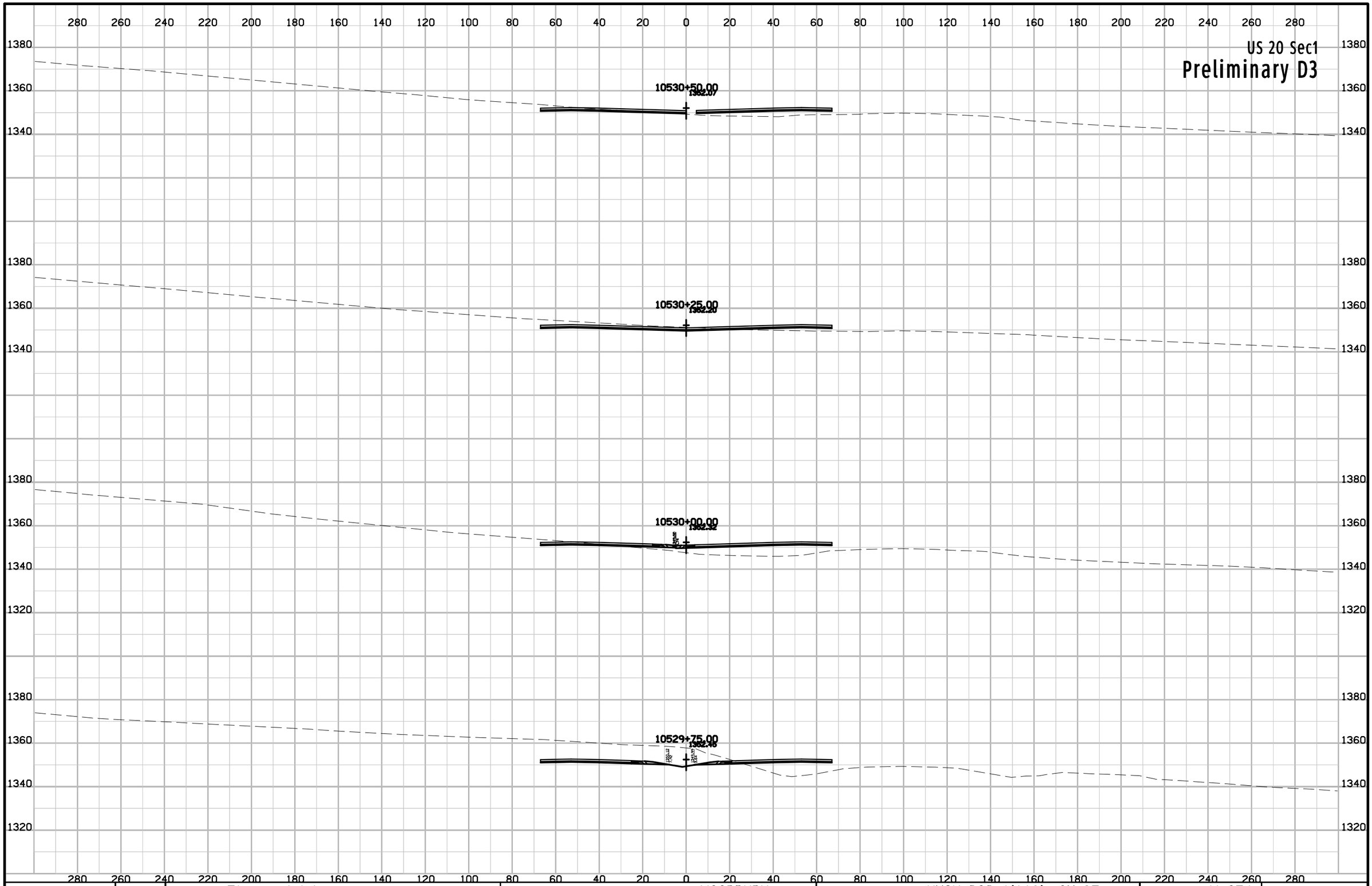


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.253

2:20:37 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

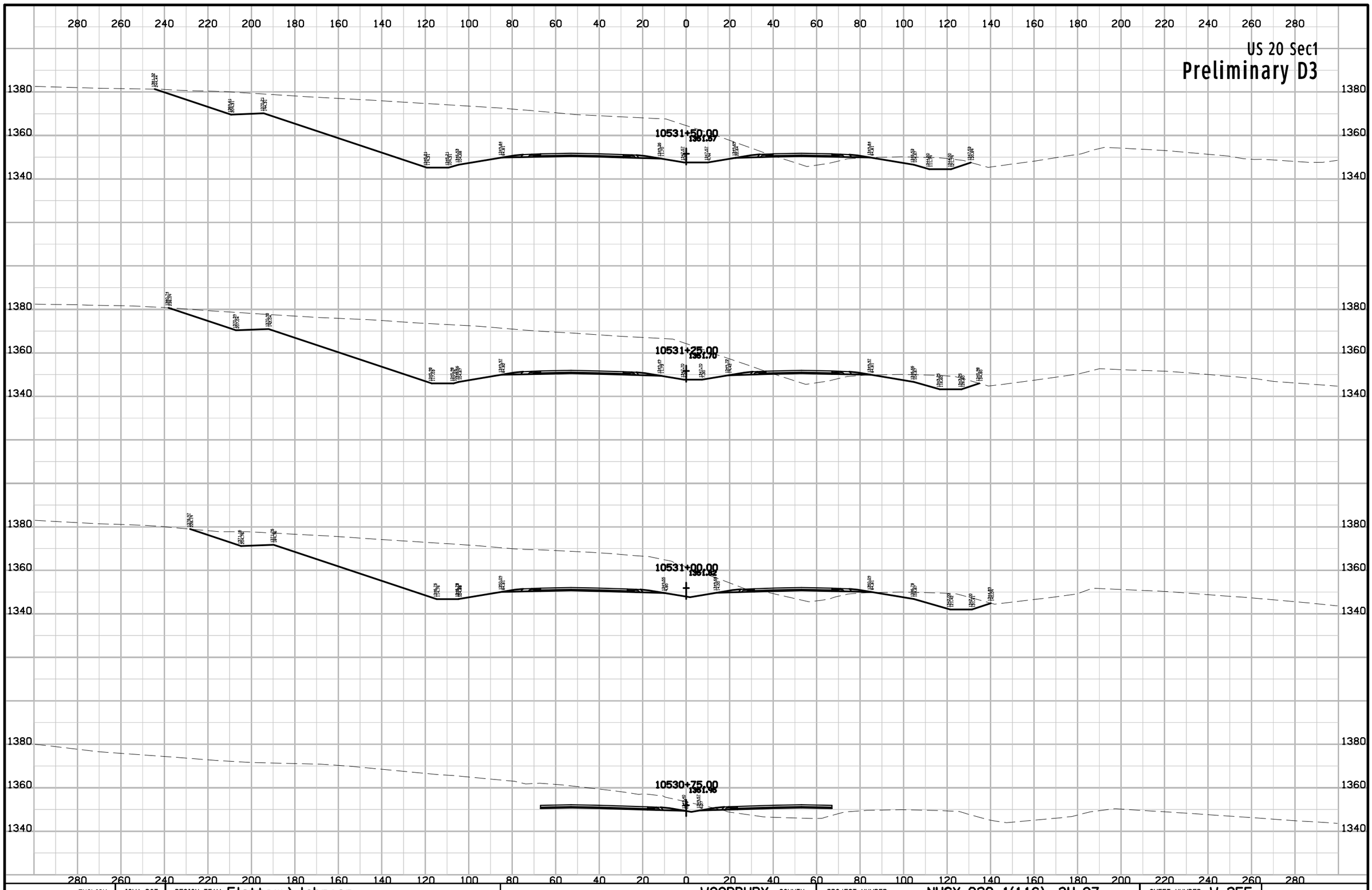


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.254

2:20:37 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

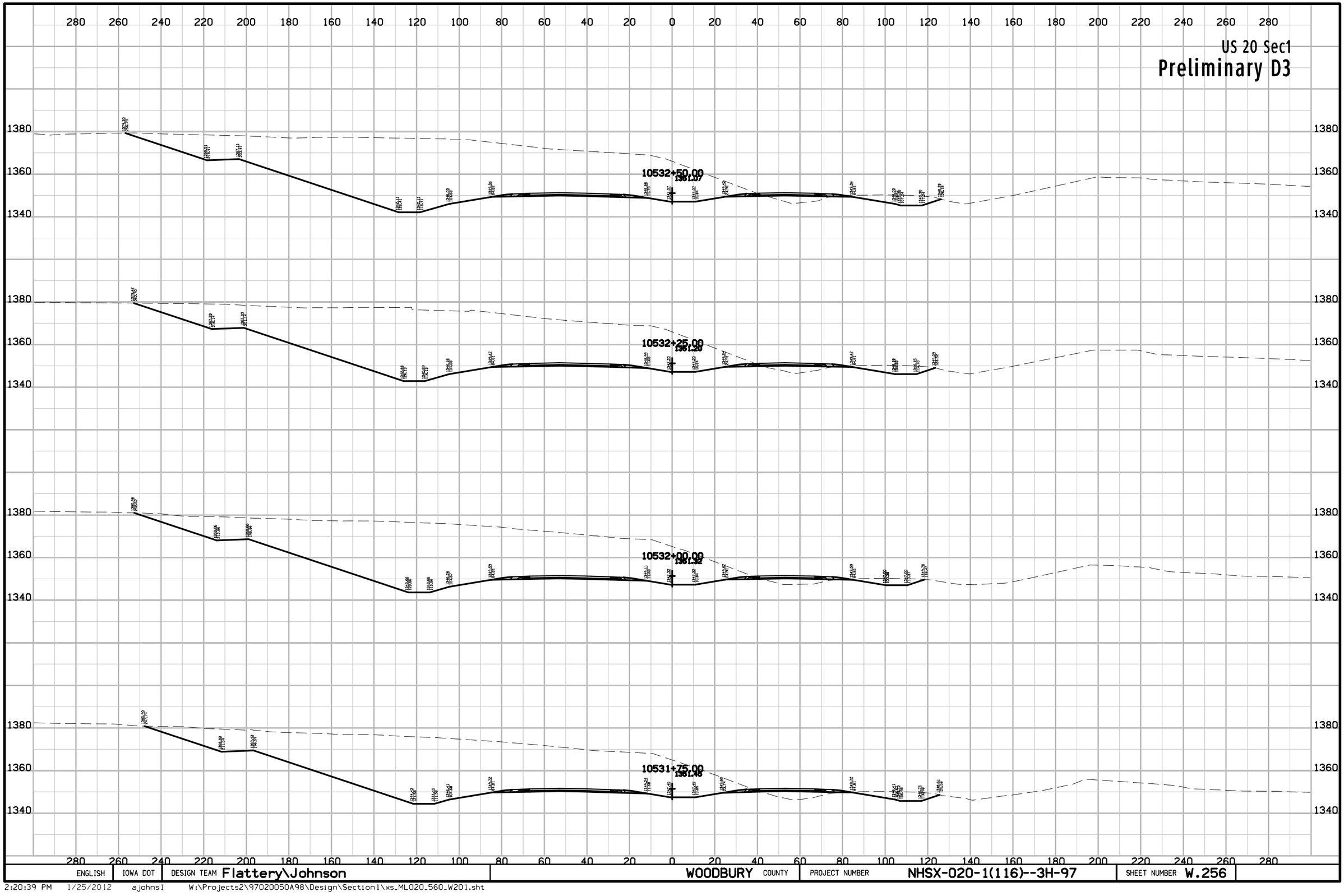


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.255

2:20:38 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

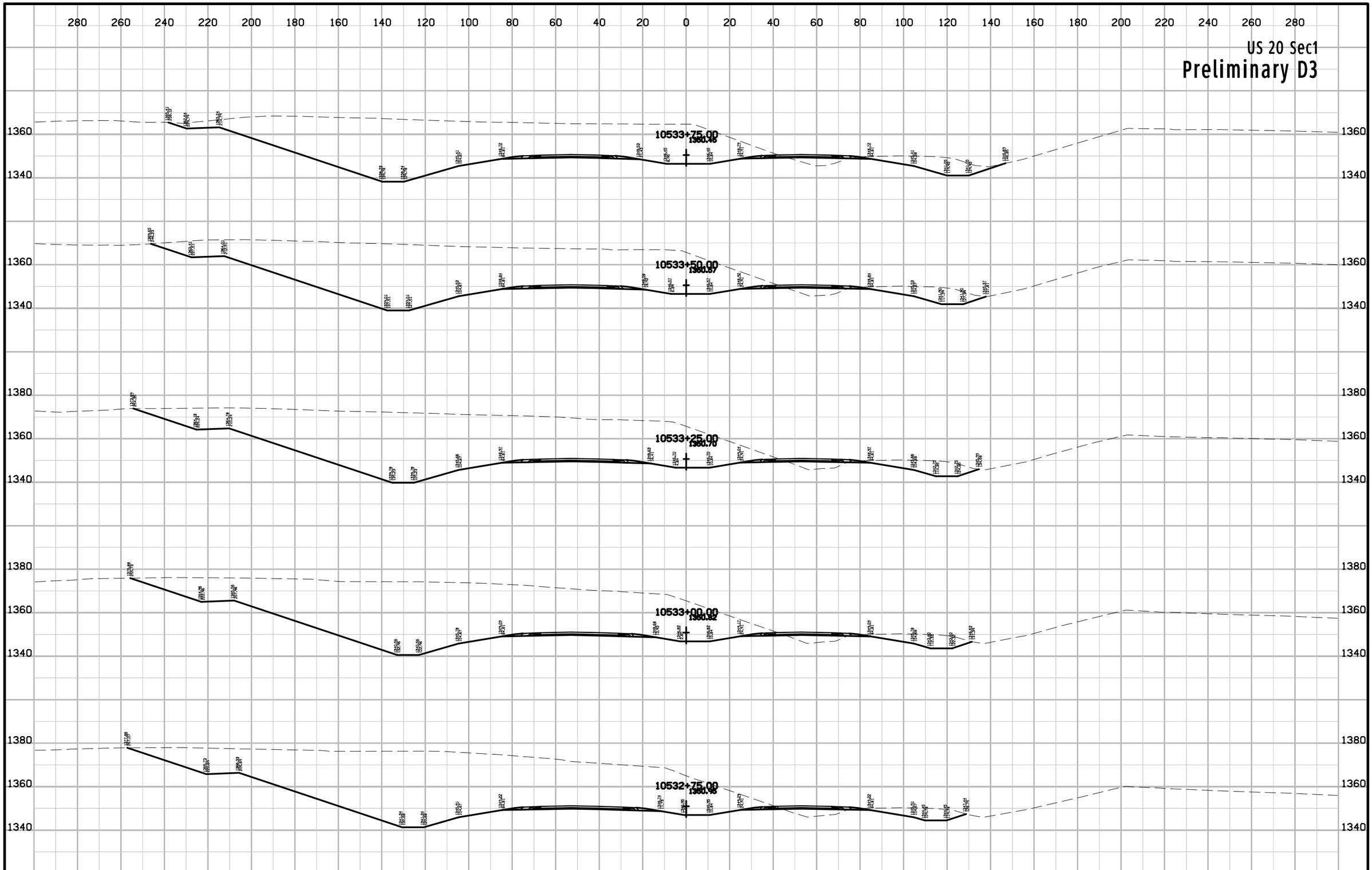


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.256

2:20:39 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

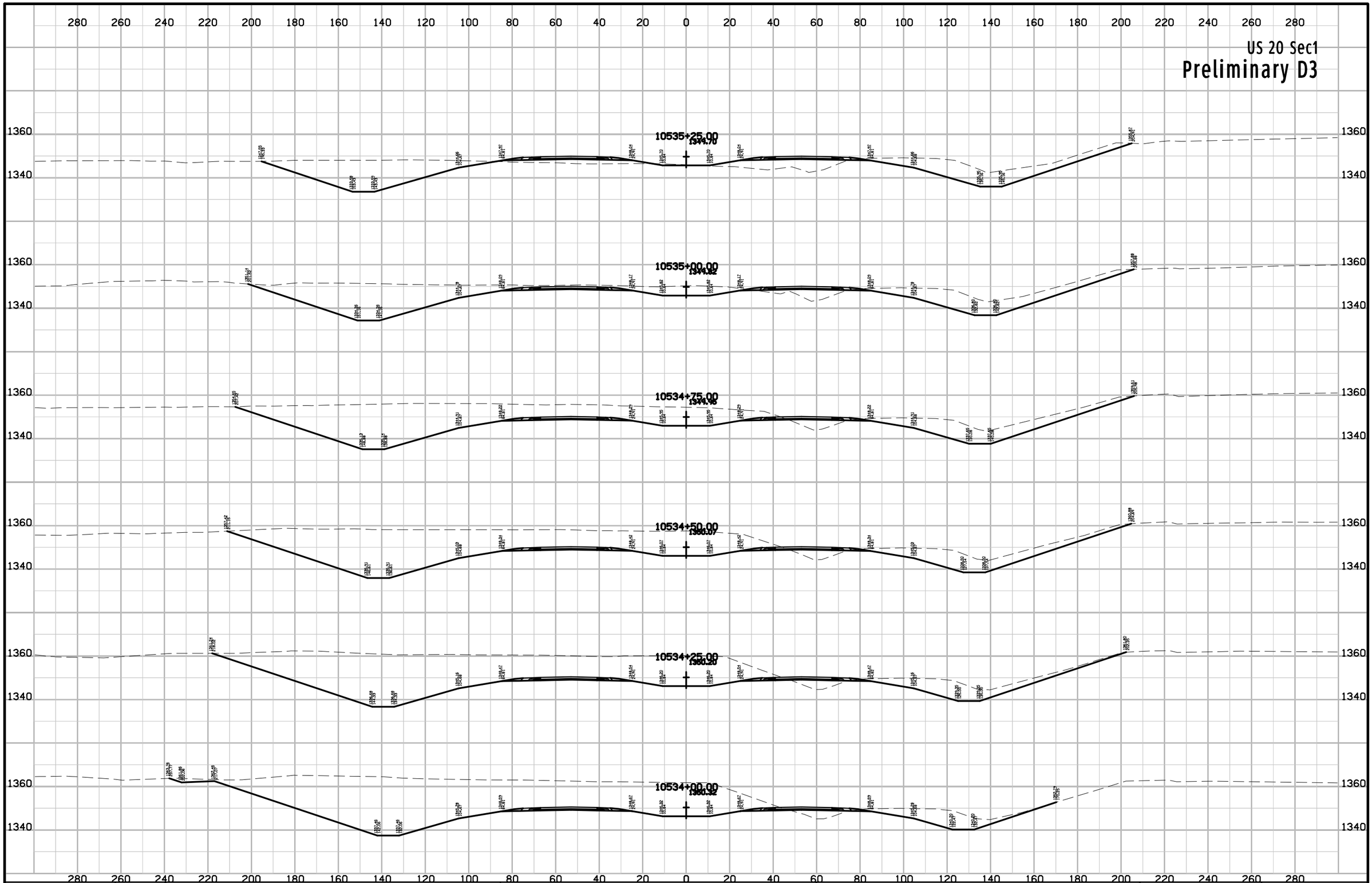


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.257

2:20:40 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

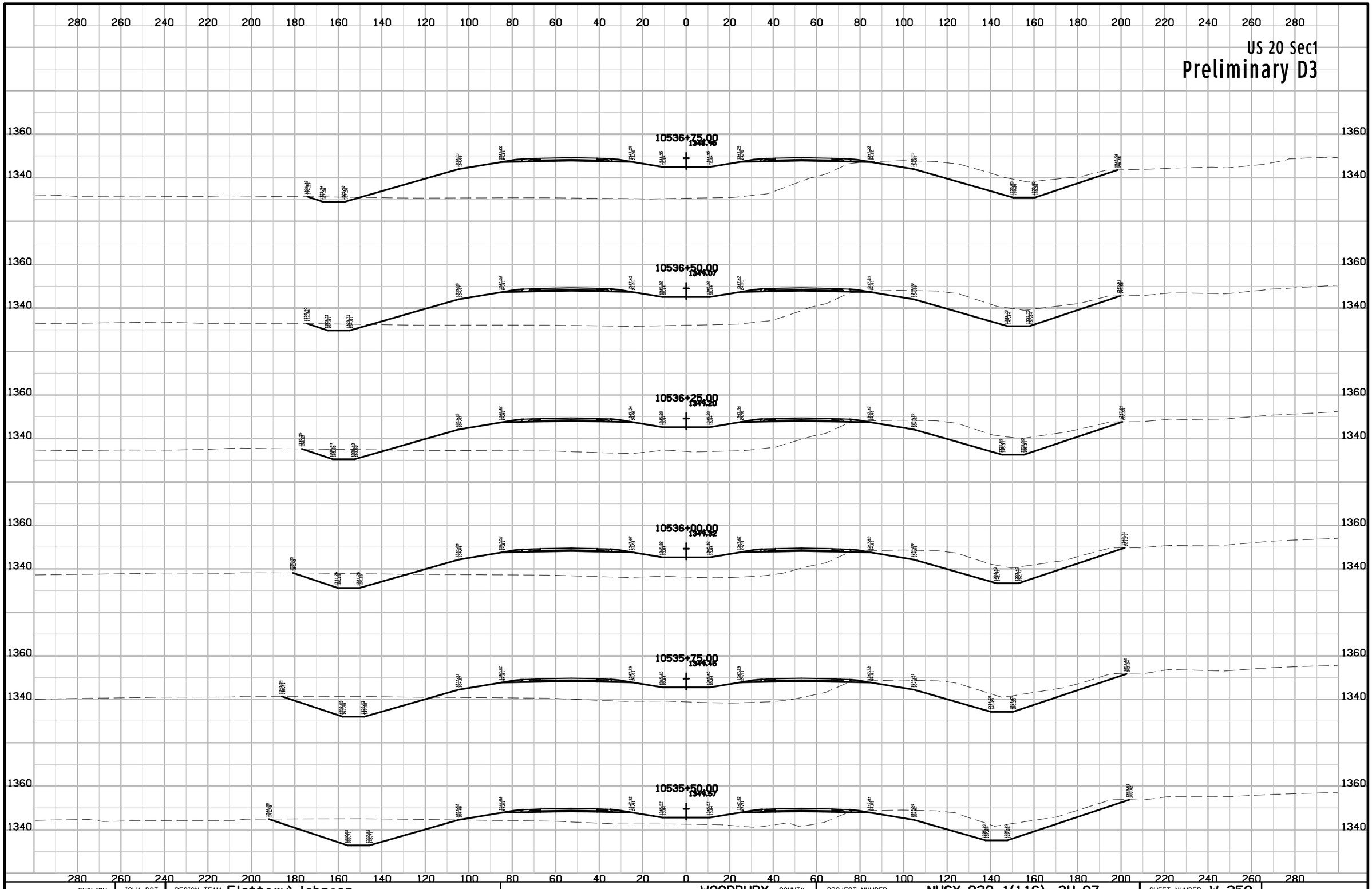


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.258

2:20:41 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.259

2:20:42 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

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

2:20:42 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

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

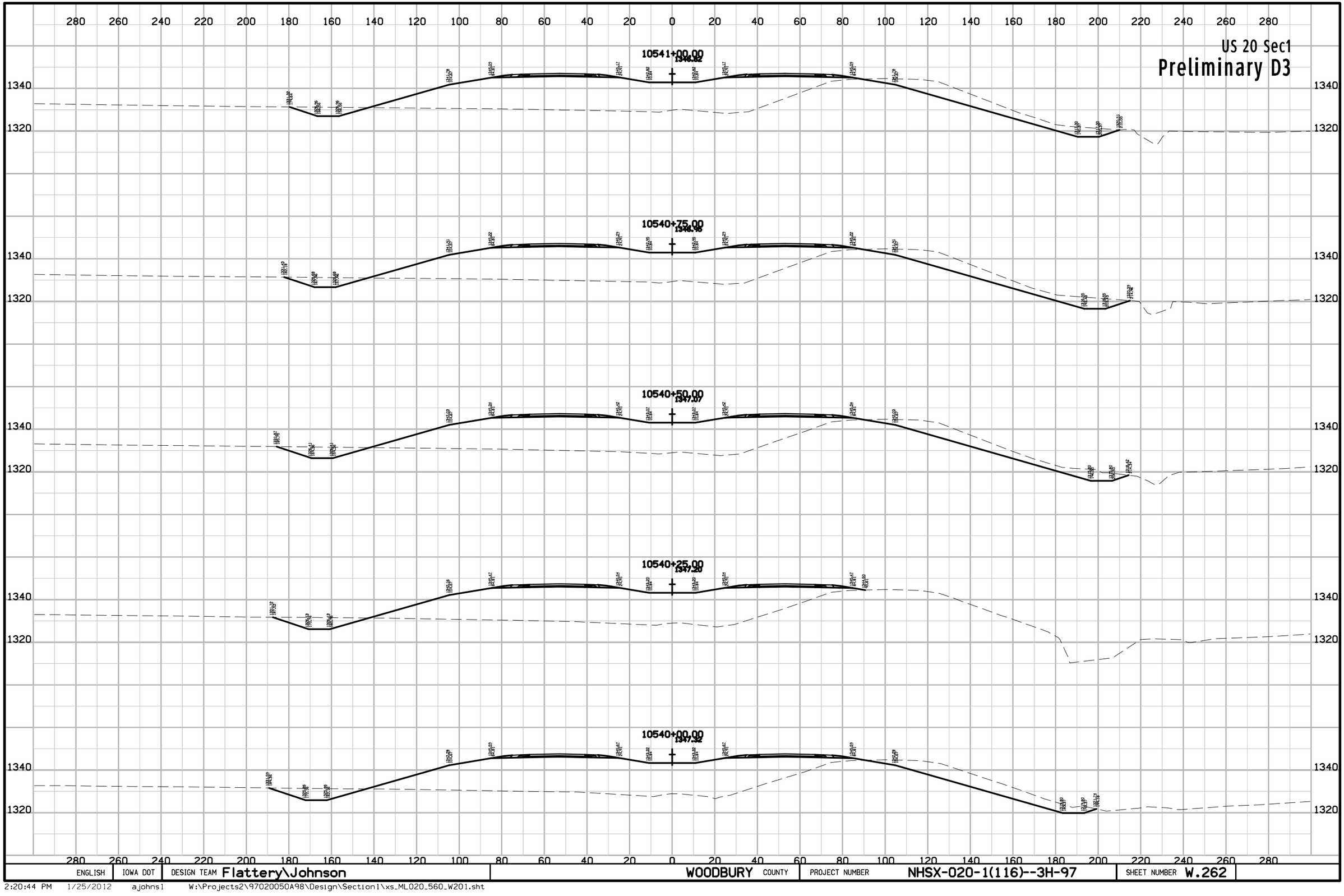
1360
1340

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.261

2:20:43 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

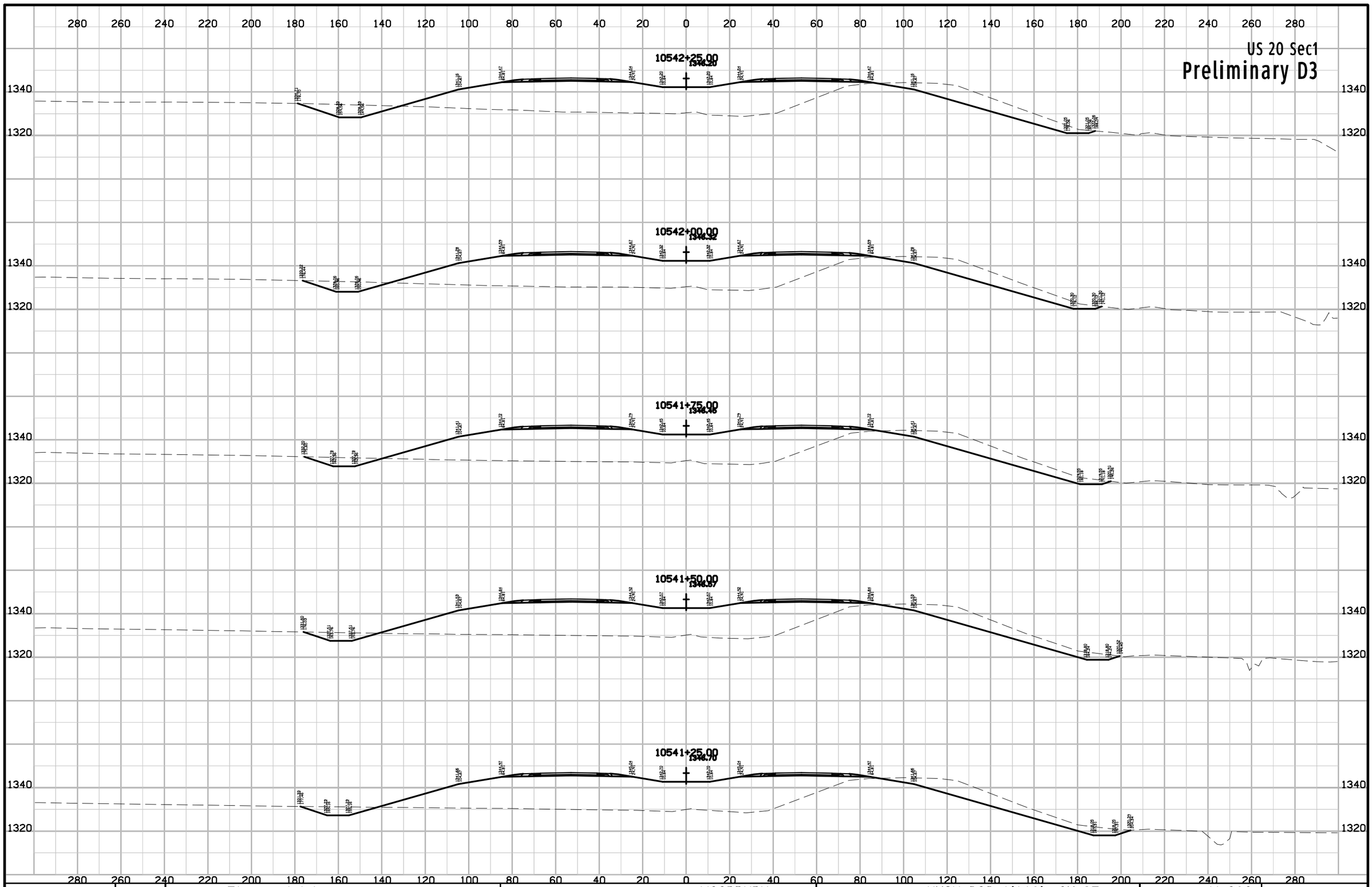


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.262

2:20:44 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.263

2:20:45 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

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
1346.82

10542+75.00
1346.98

10542+50.00
1346.07

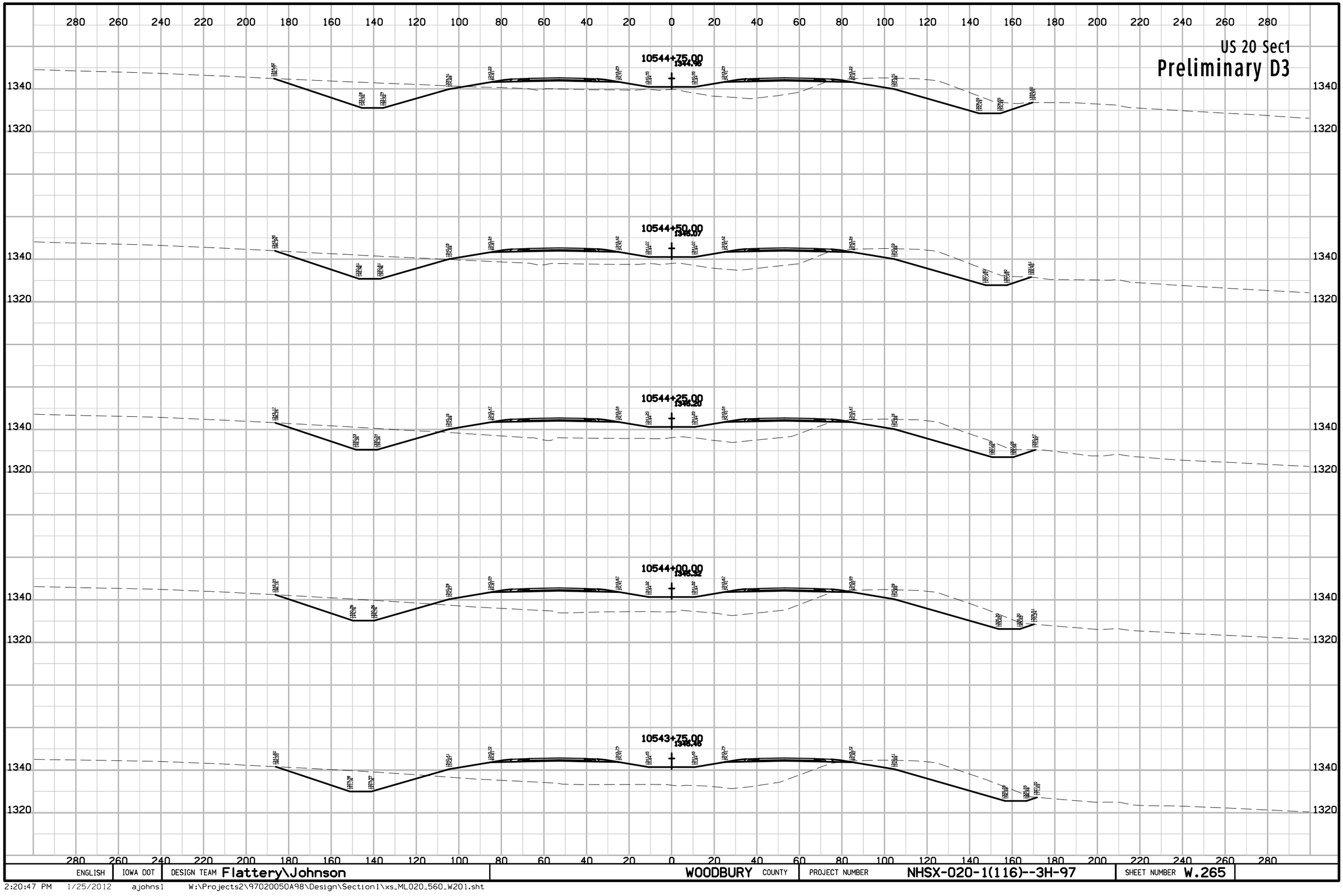
1340
1320

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.264

2:20:46 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

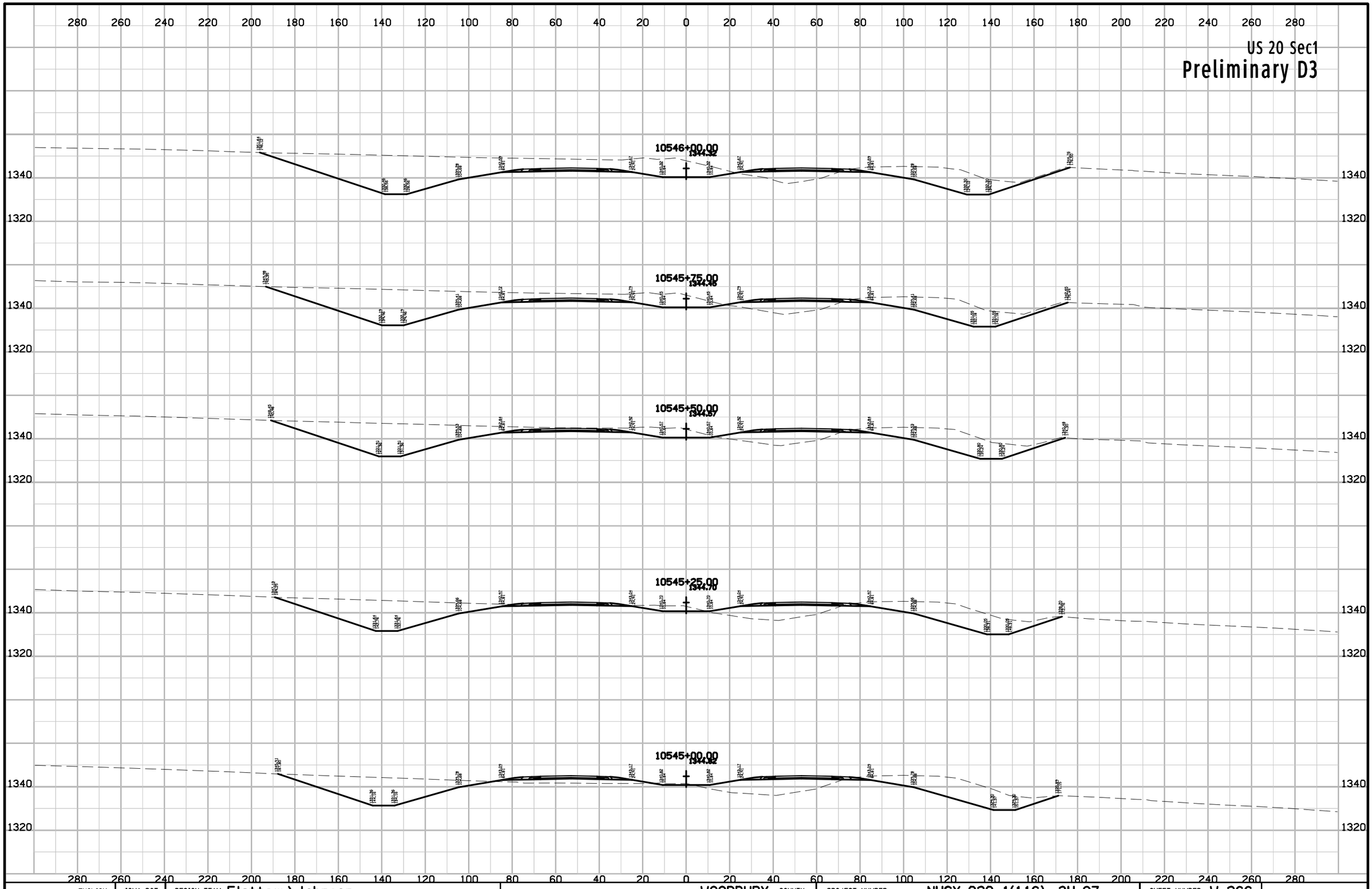


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.265

2:20:47 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

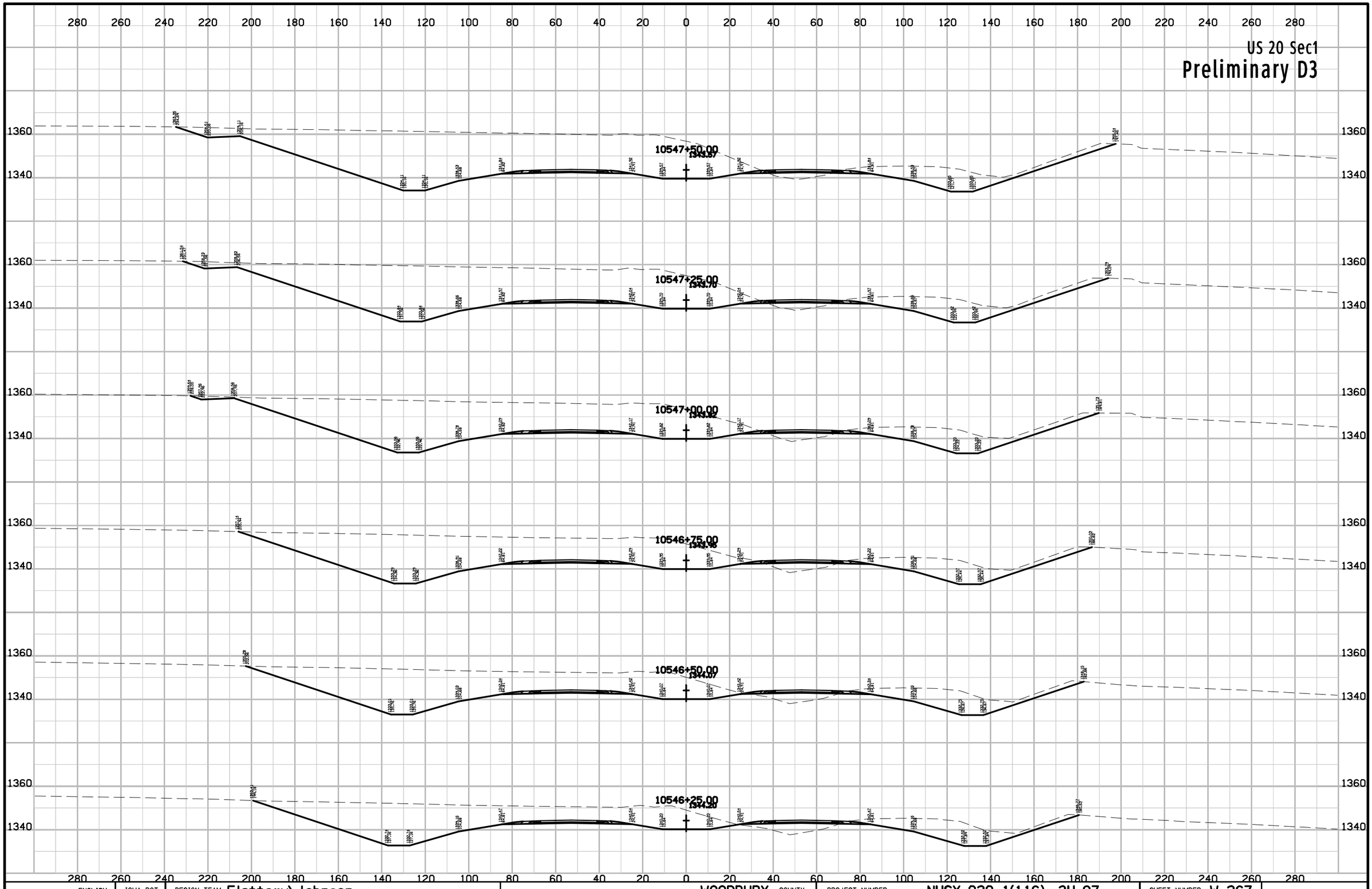


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.266

2:20:48 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.267

2:20:48 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

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

10548+75.00
1342.96

10548+50.00
1343.07

10548+25.00
1343.20

10548+00.00
1343.32

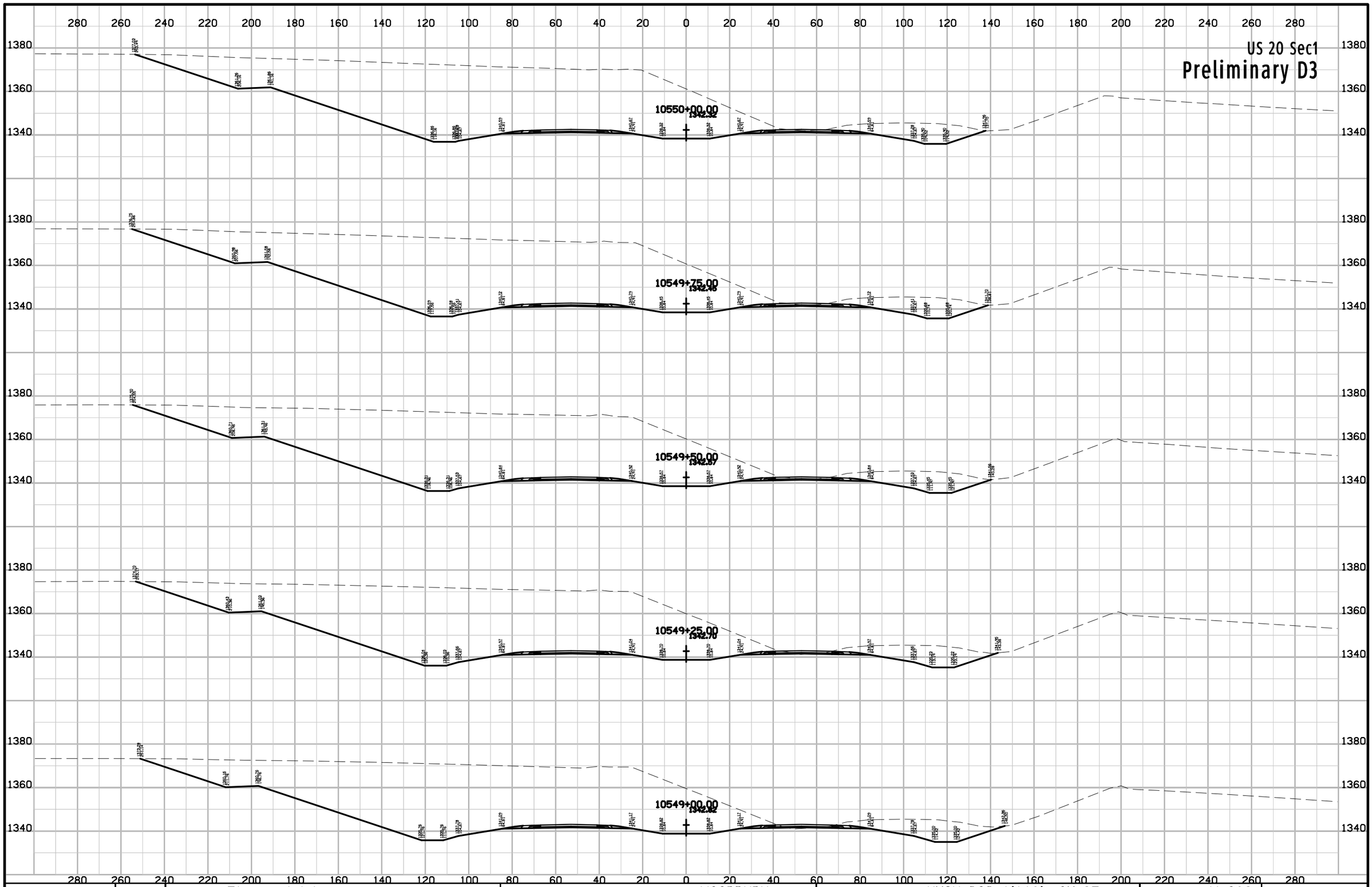
10547+75.00
1343.48

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.268

2:20:49 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

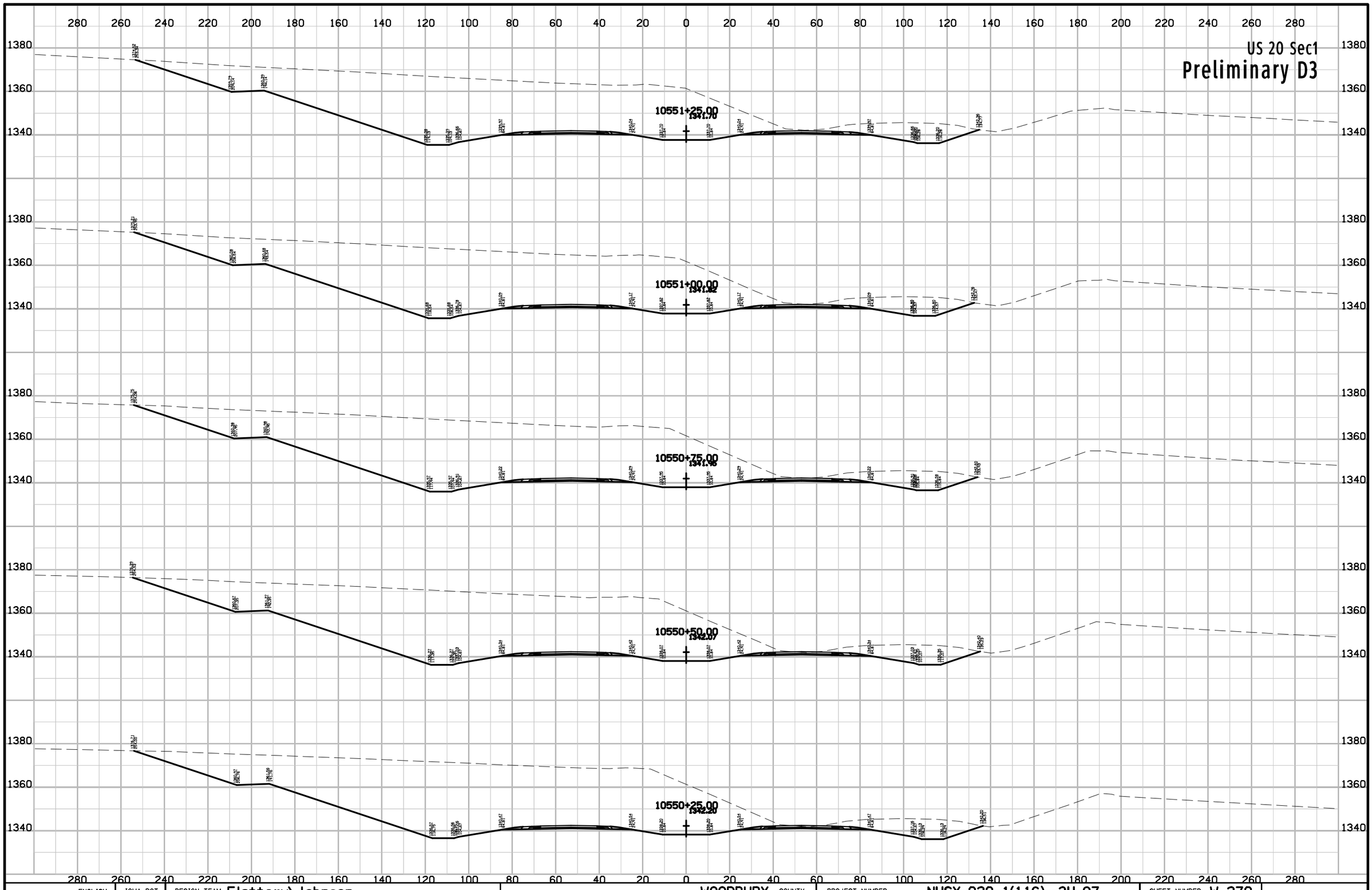


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.269

2:20:50 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

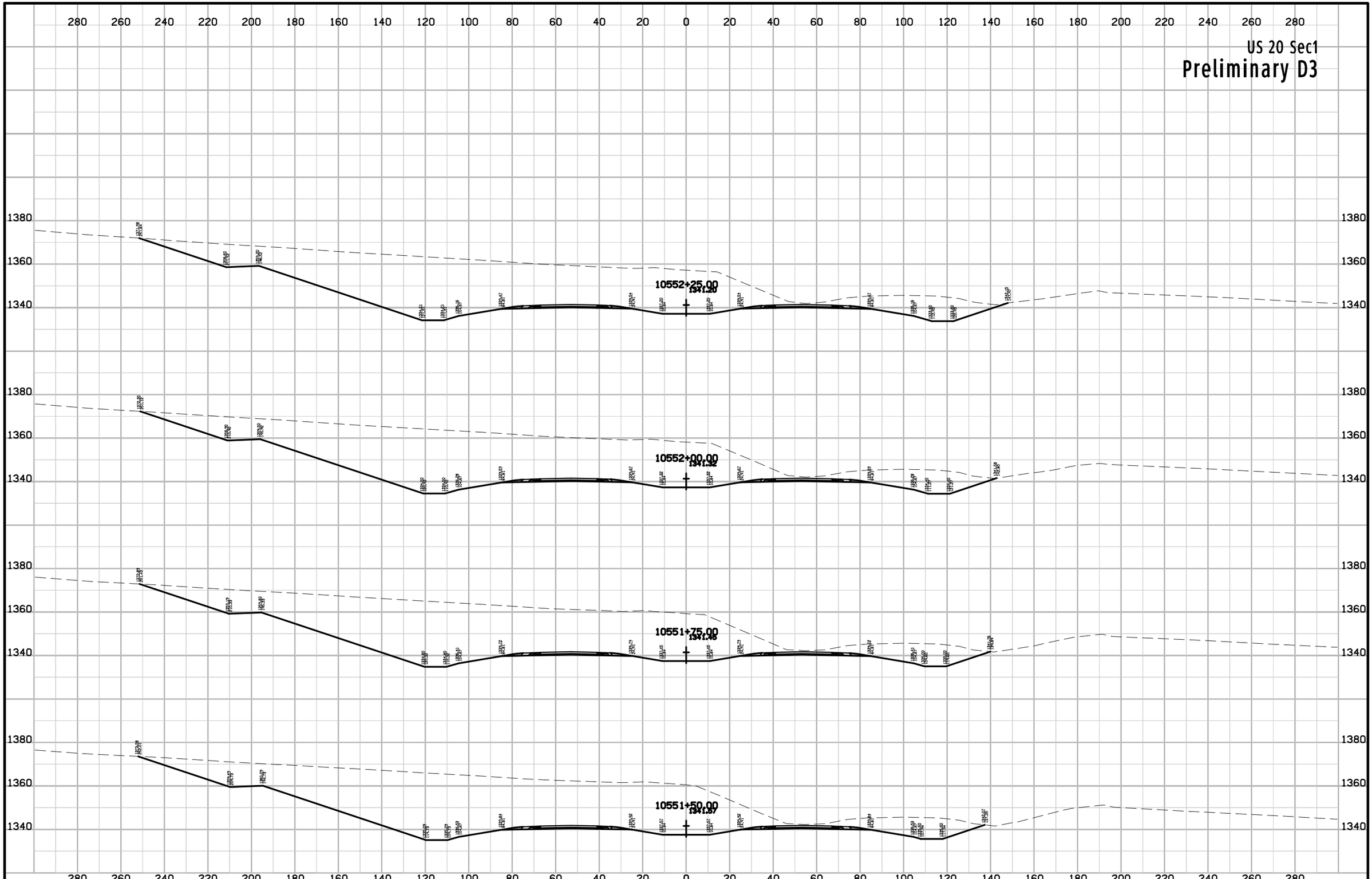


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.270

2:20:51 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

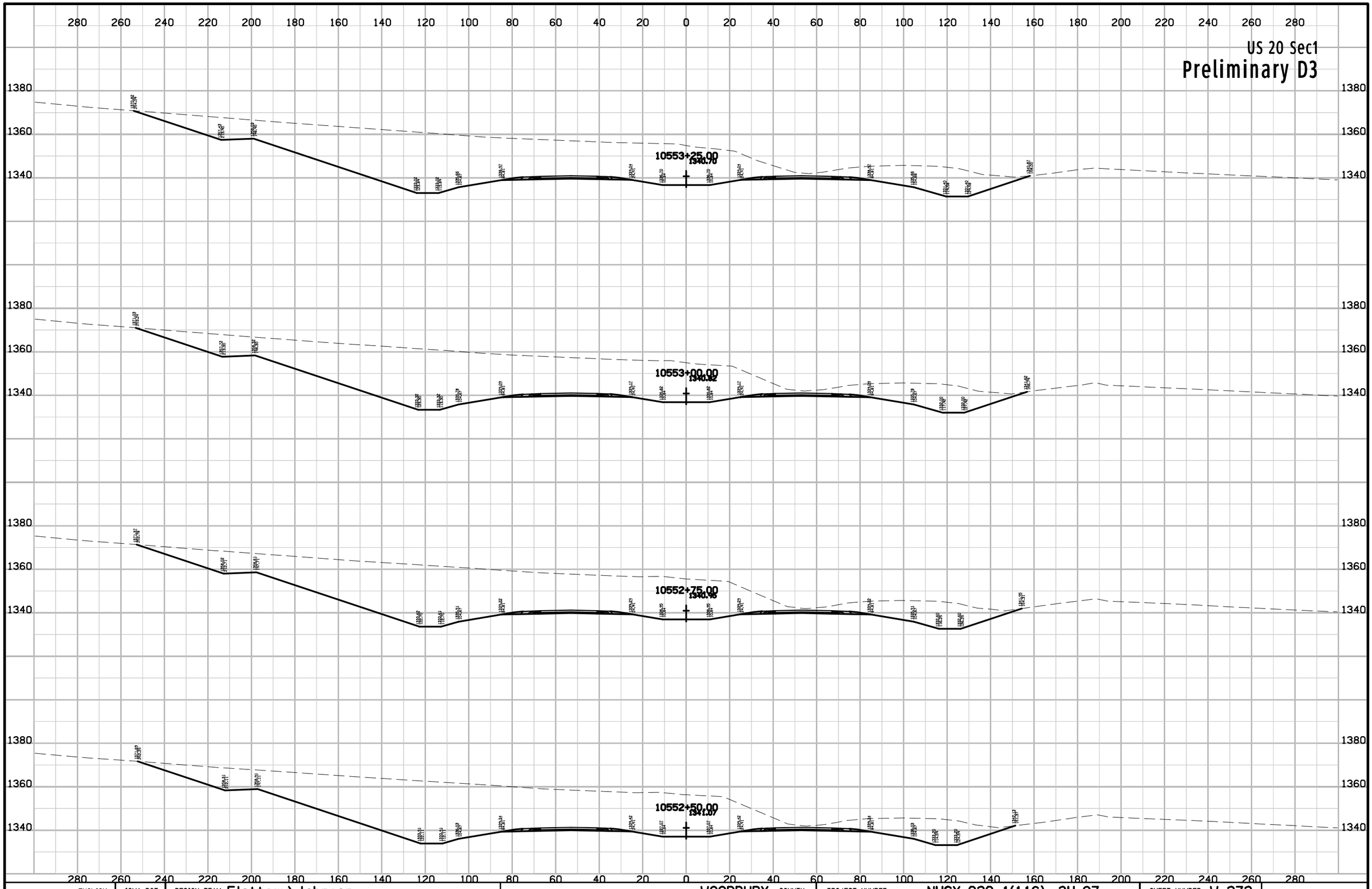


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.271

2:20:52 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

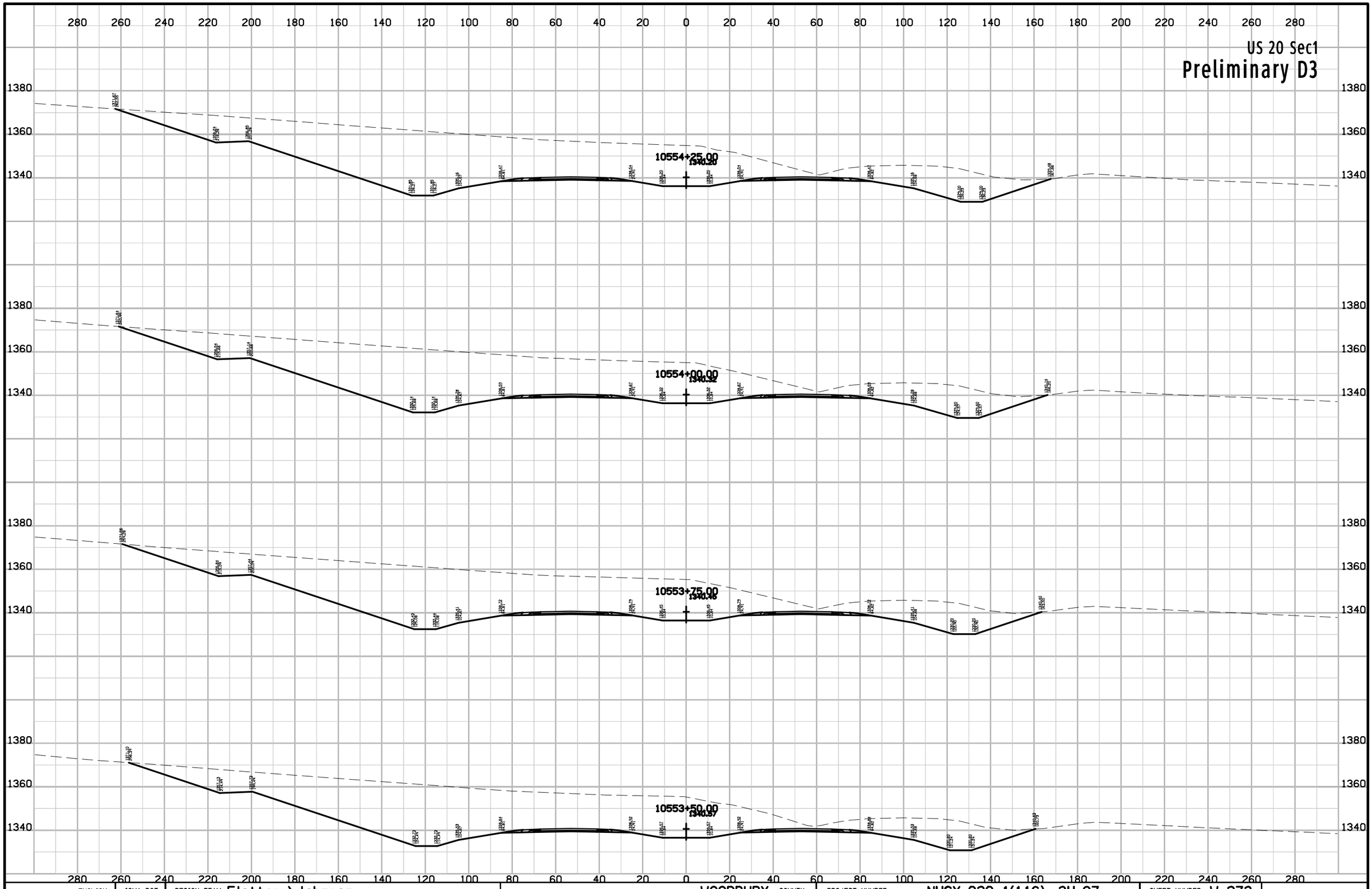


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.272

2:20:53 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

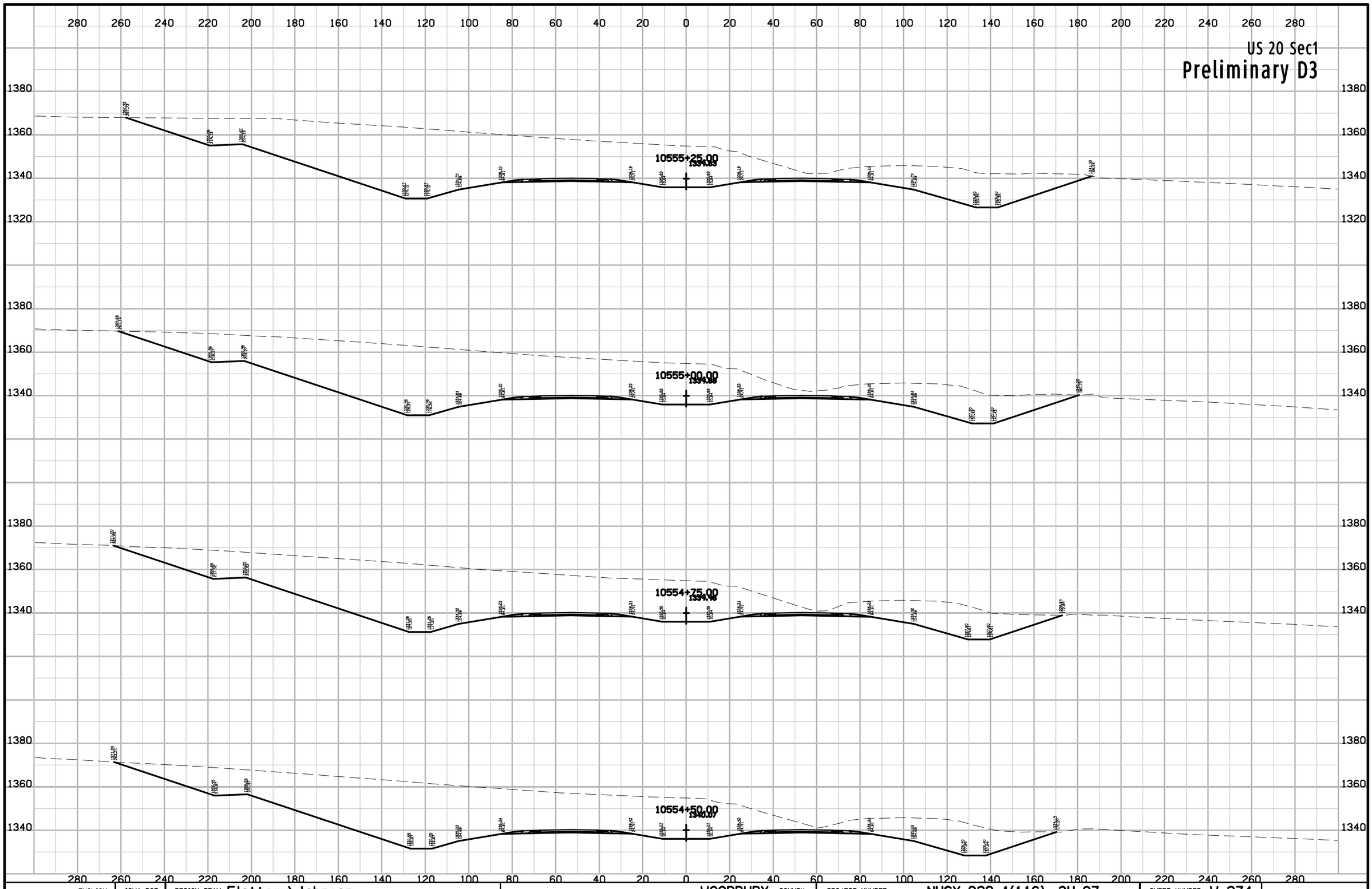


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.273

2:20:54 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

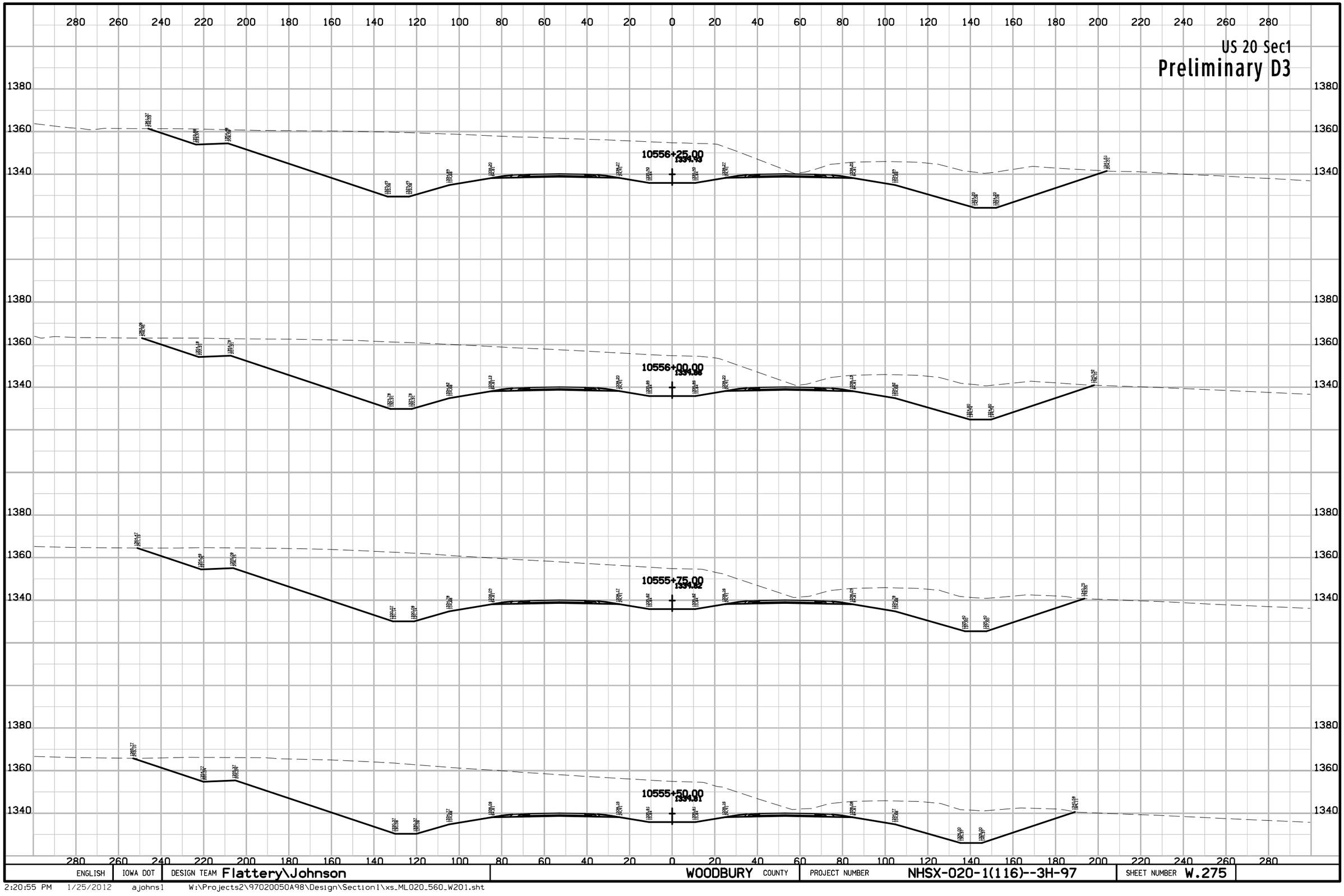


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.274

2:20:54 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

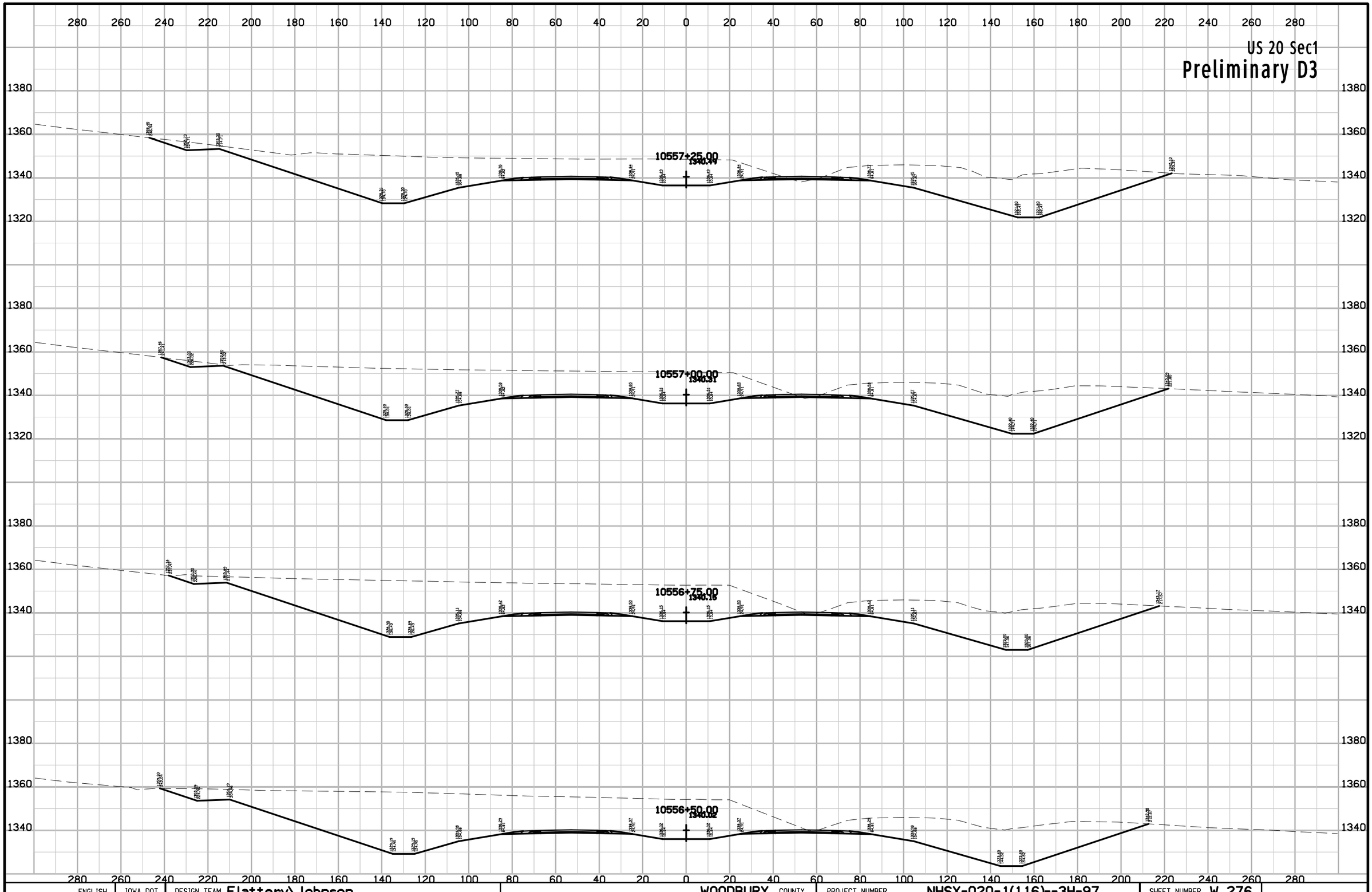


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.275

2:20:55 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

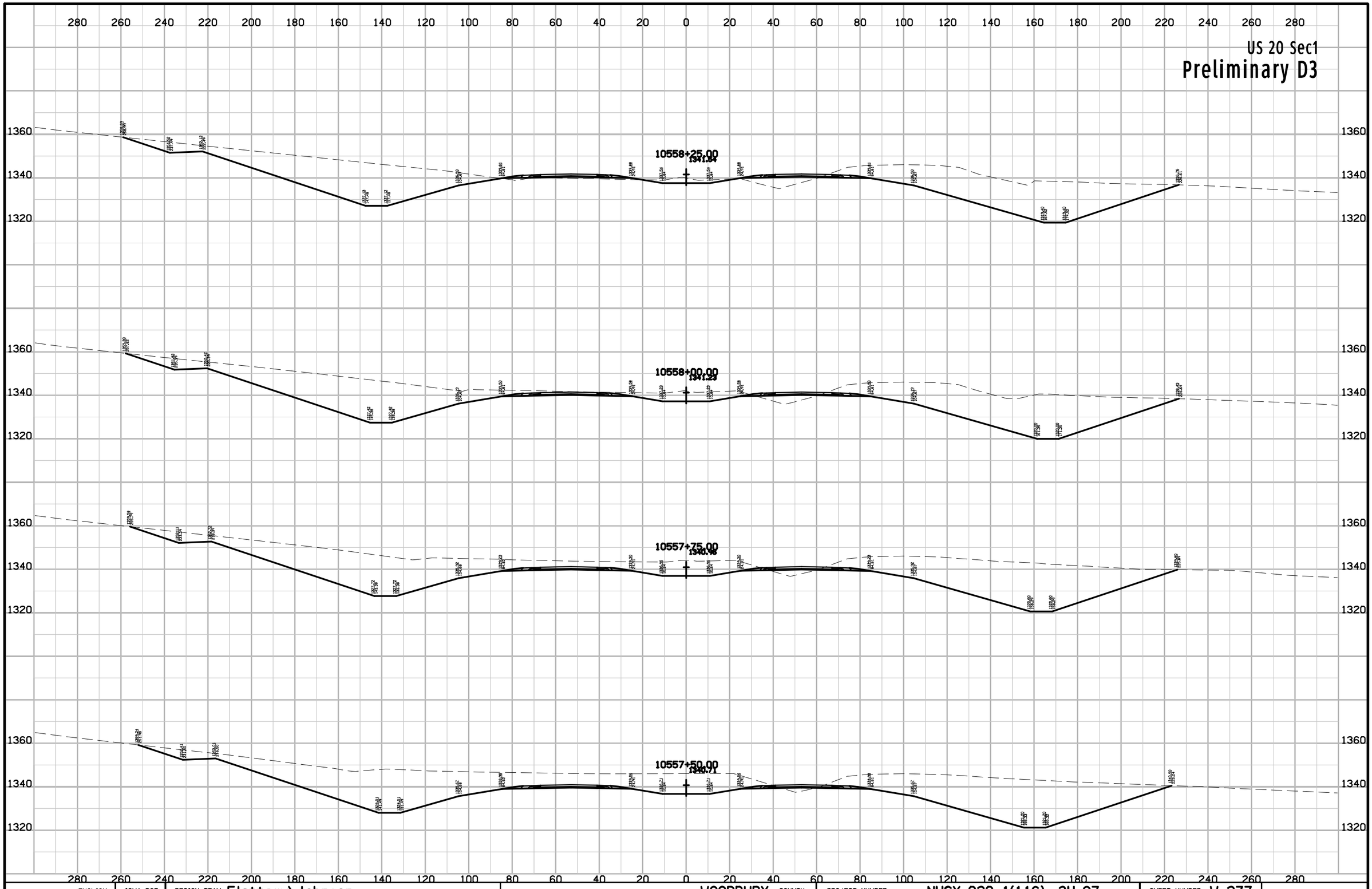


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.276

2:20:56 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

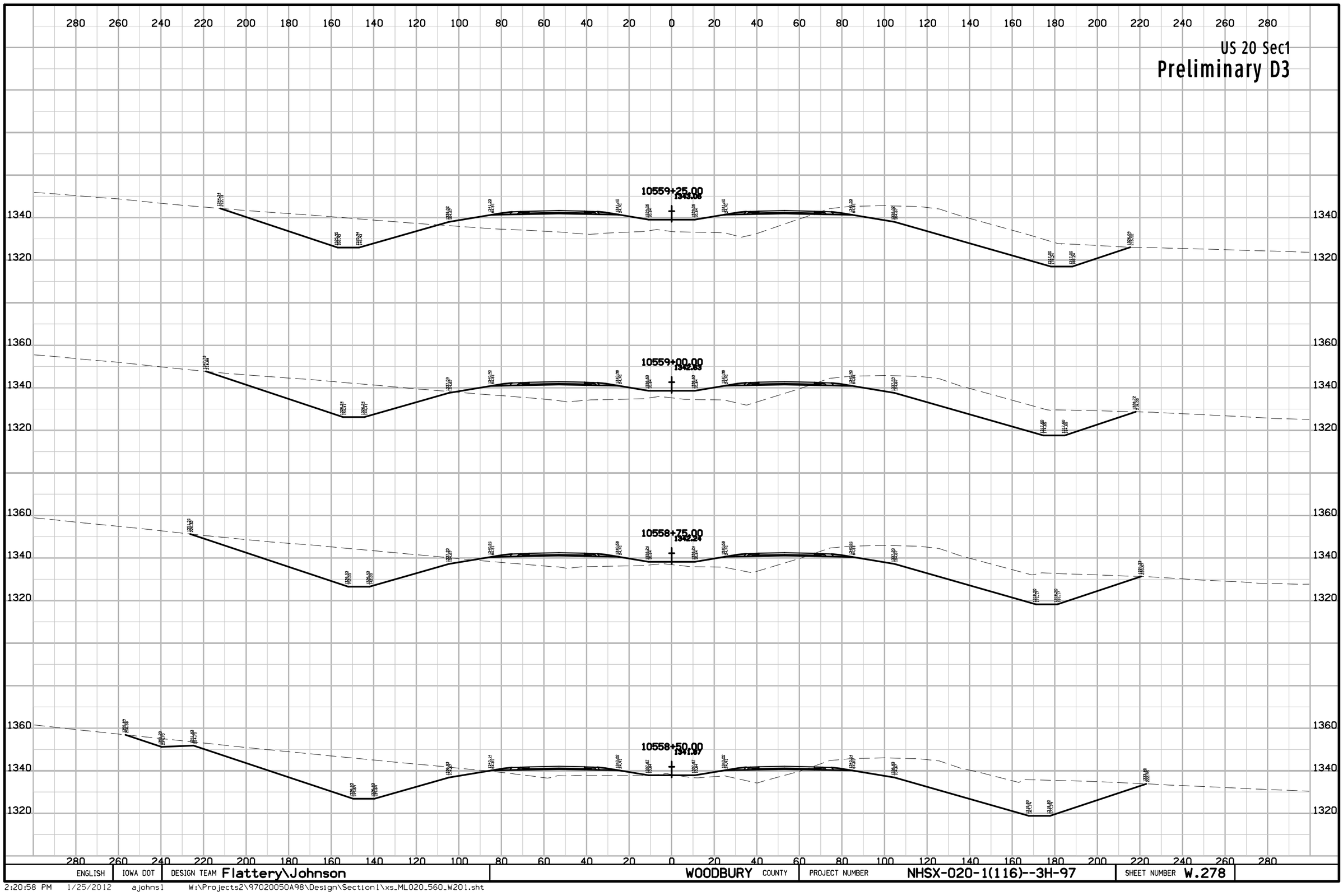


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.277

2:20:57 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

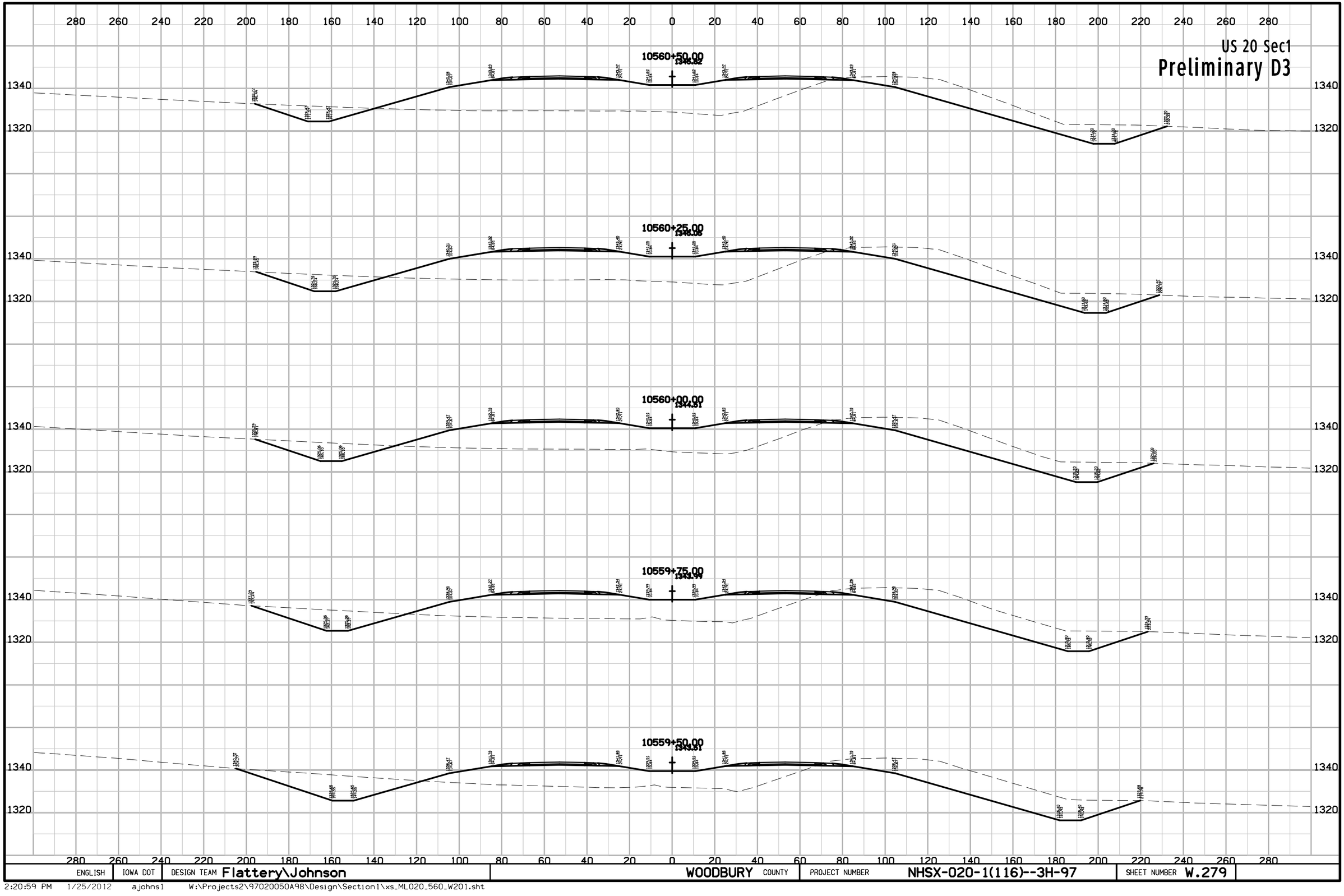


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.278

2:20:58 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

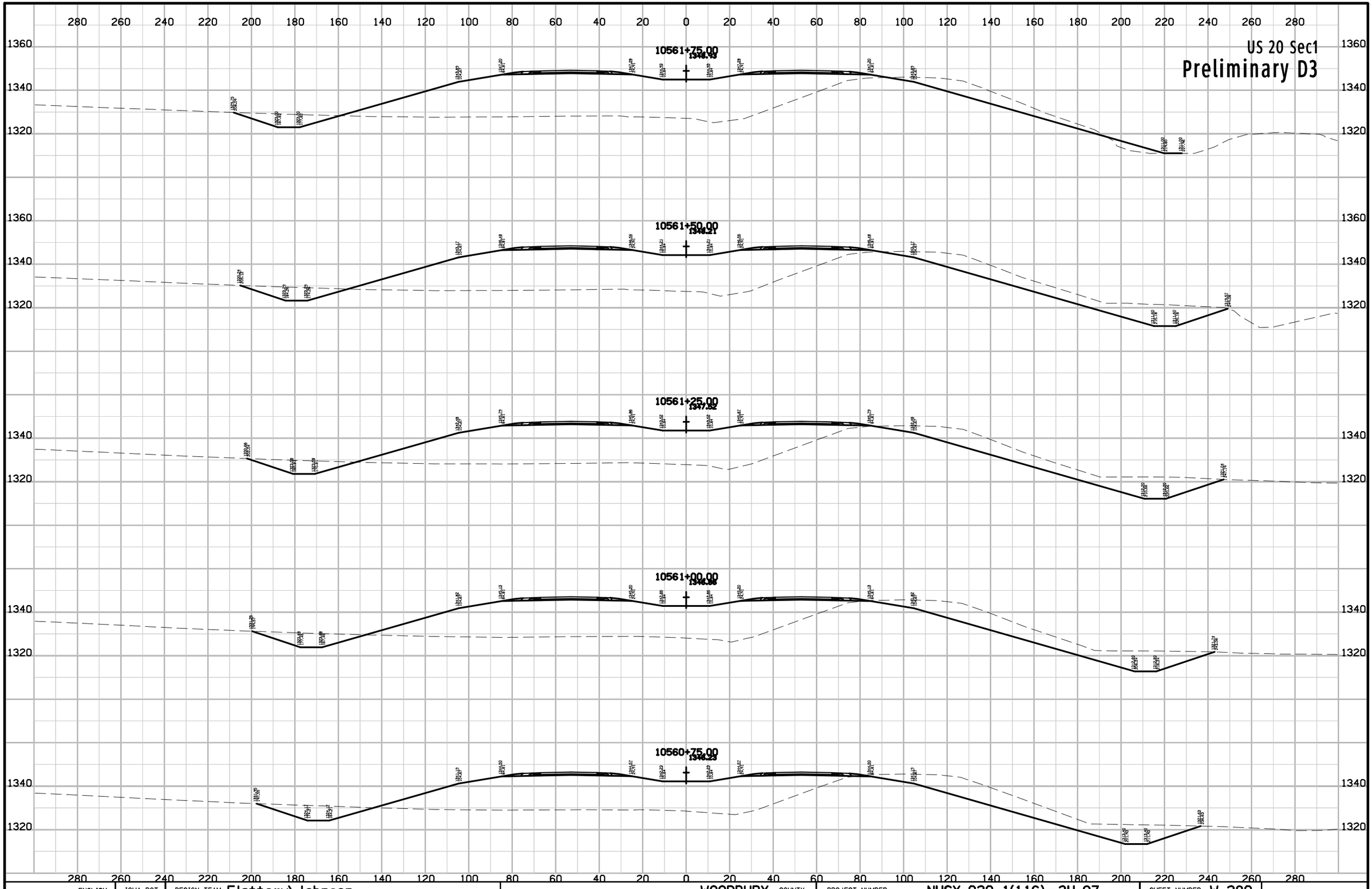


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.279

2:20:59 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

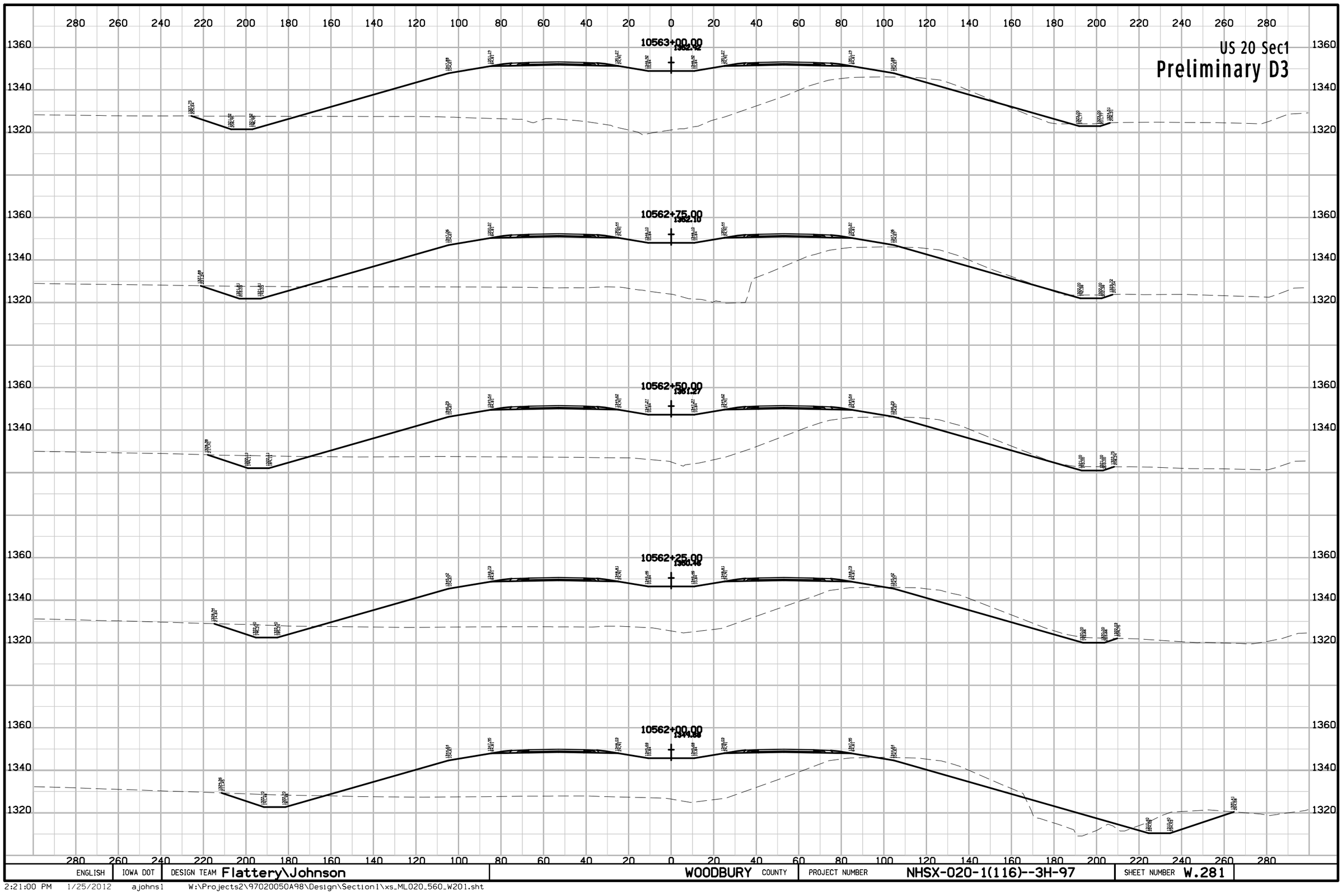


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.280

2:20:59 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

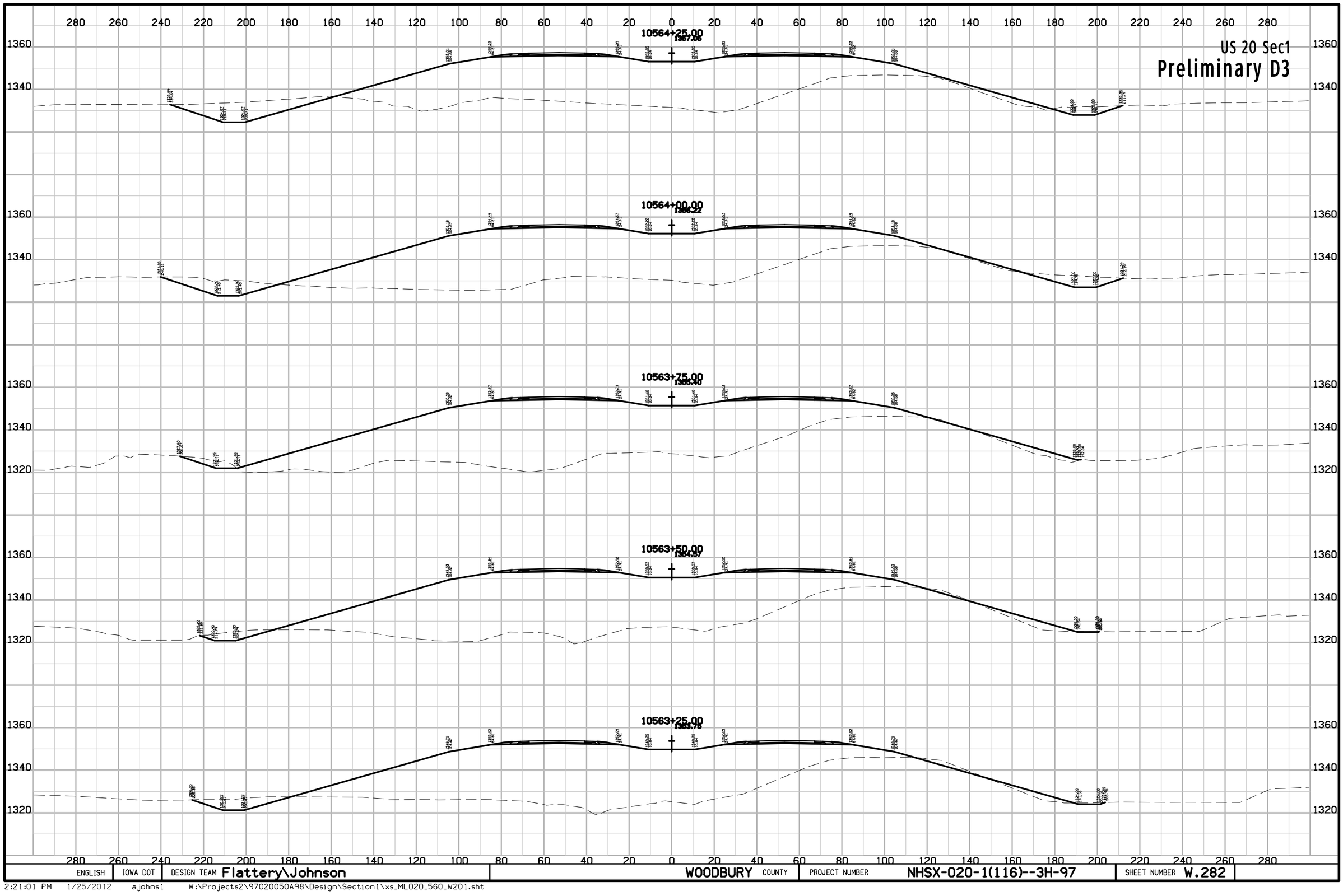


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.281

2:21:00 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

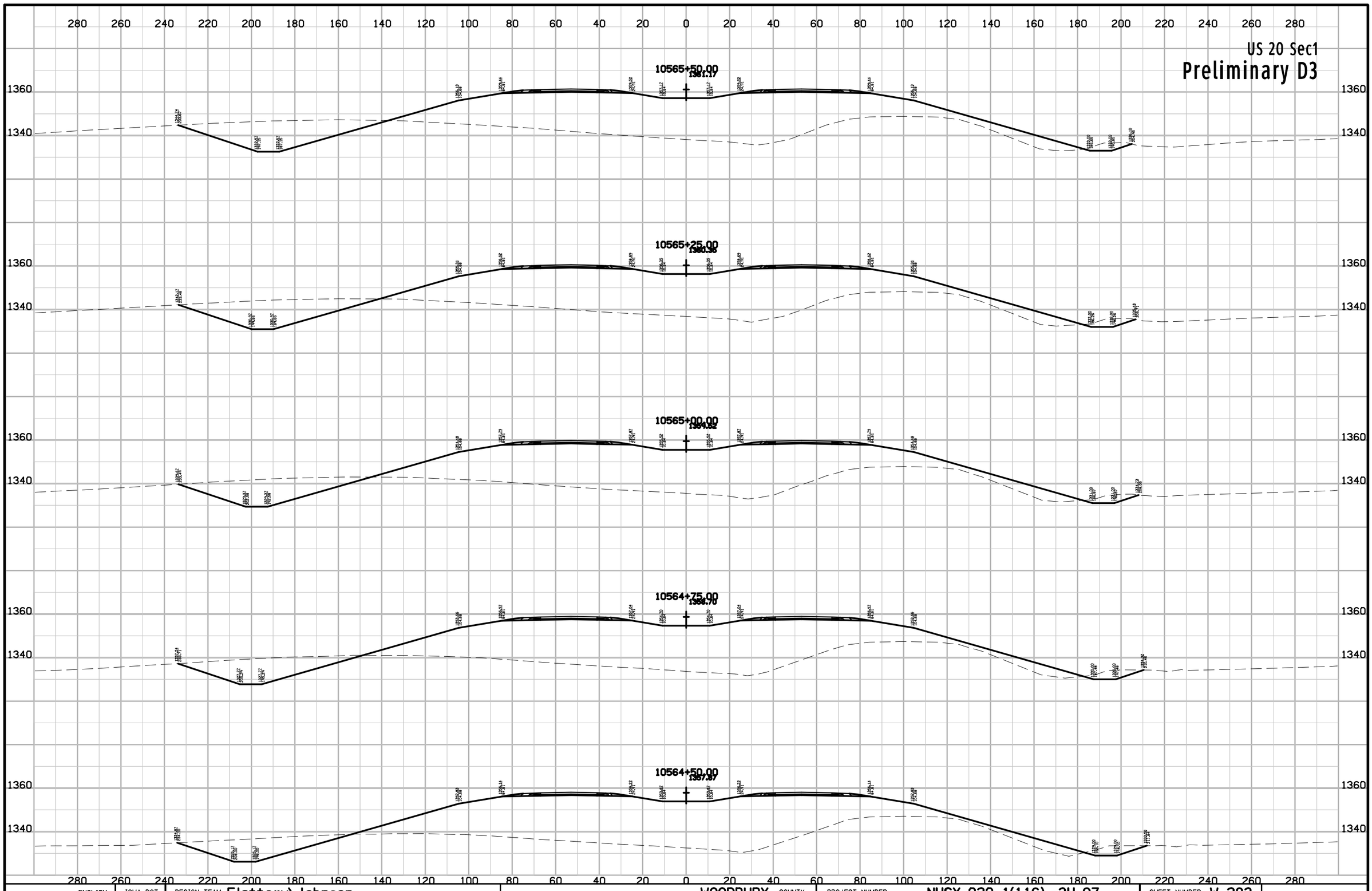


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.282

2:21:01 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

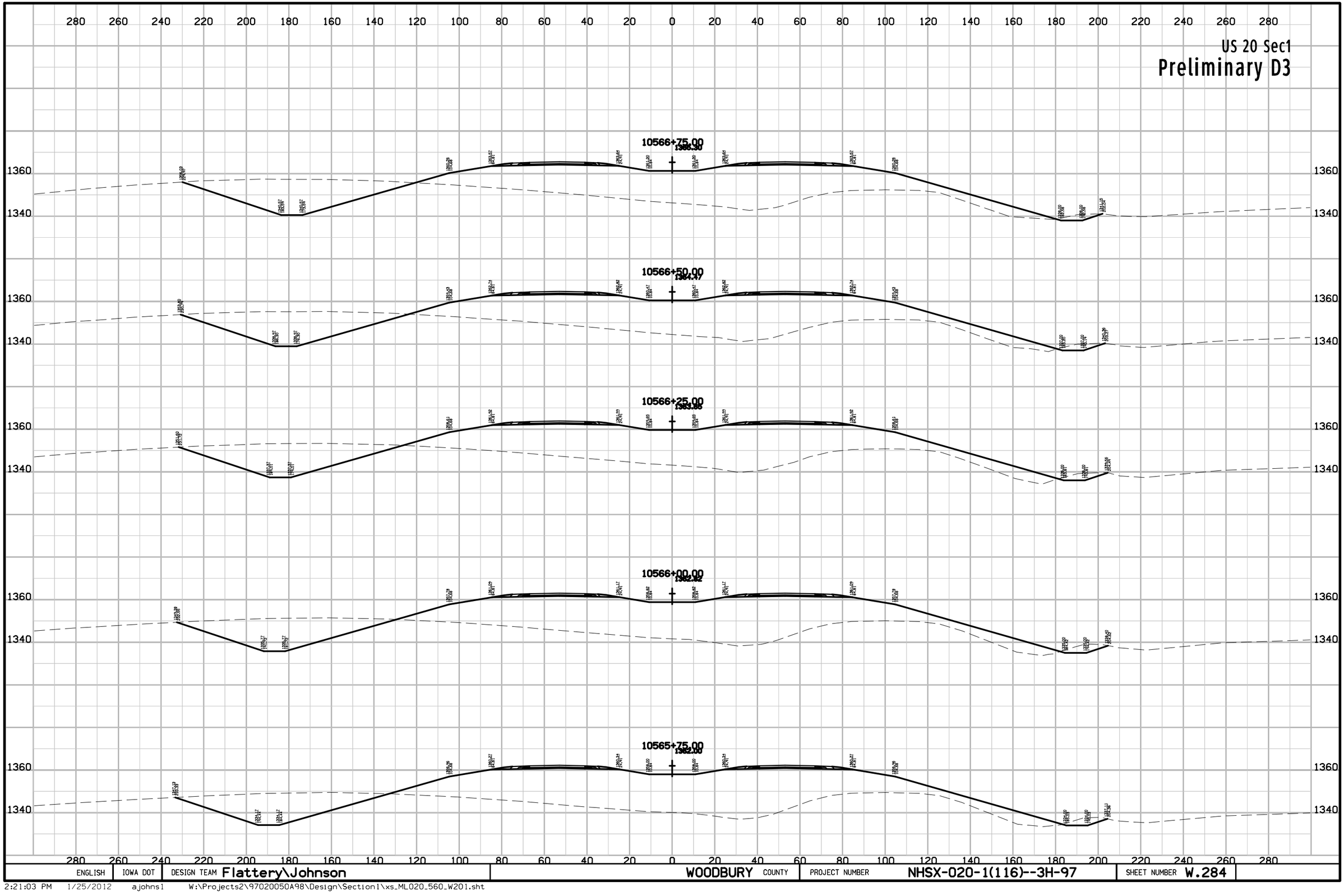
Preliminary D3



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 D3

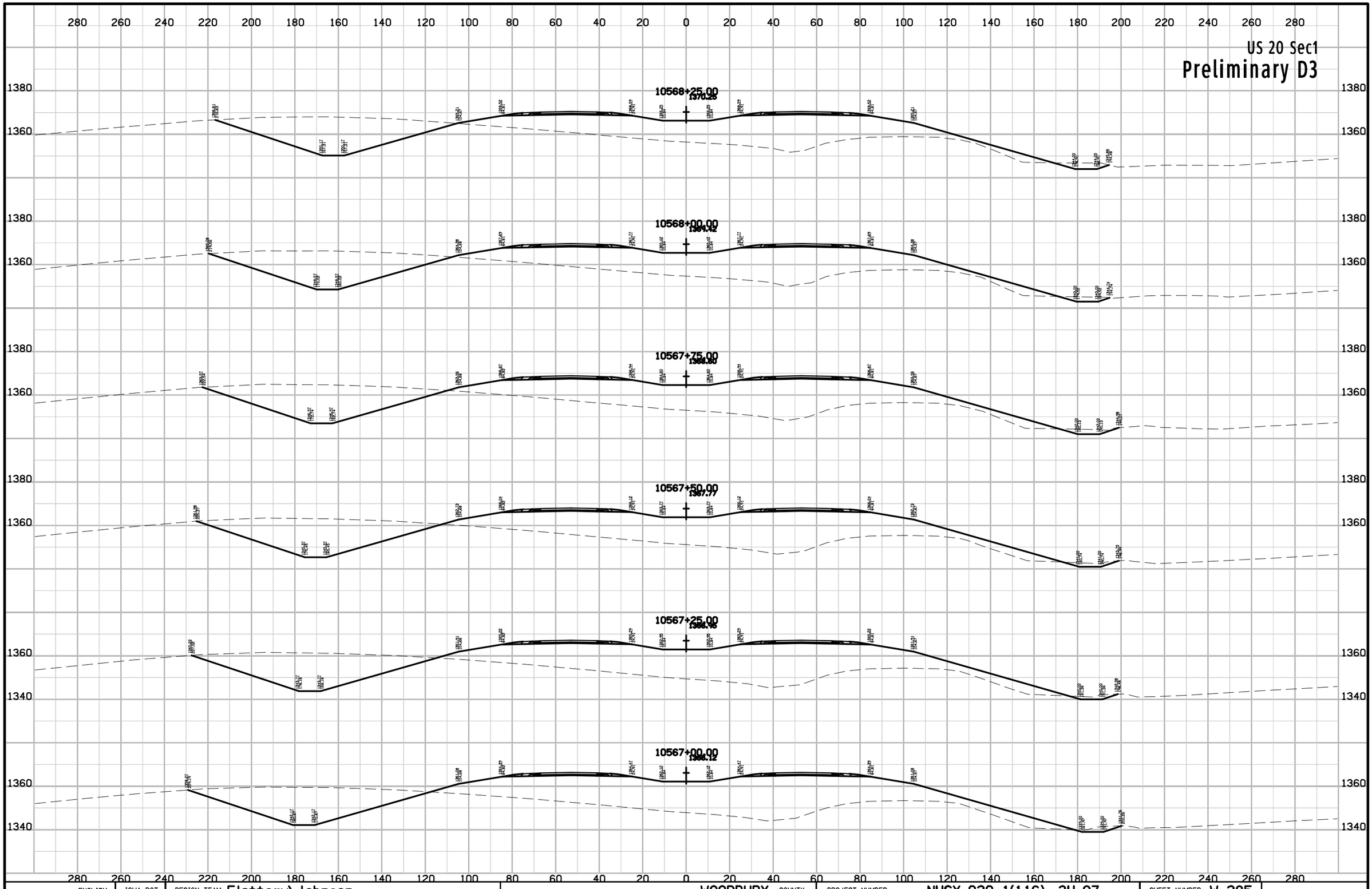


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.284

2:21:03 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

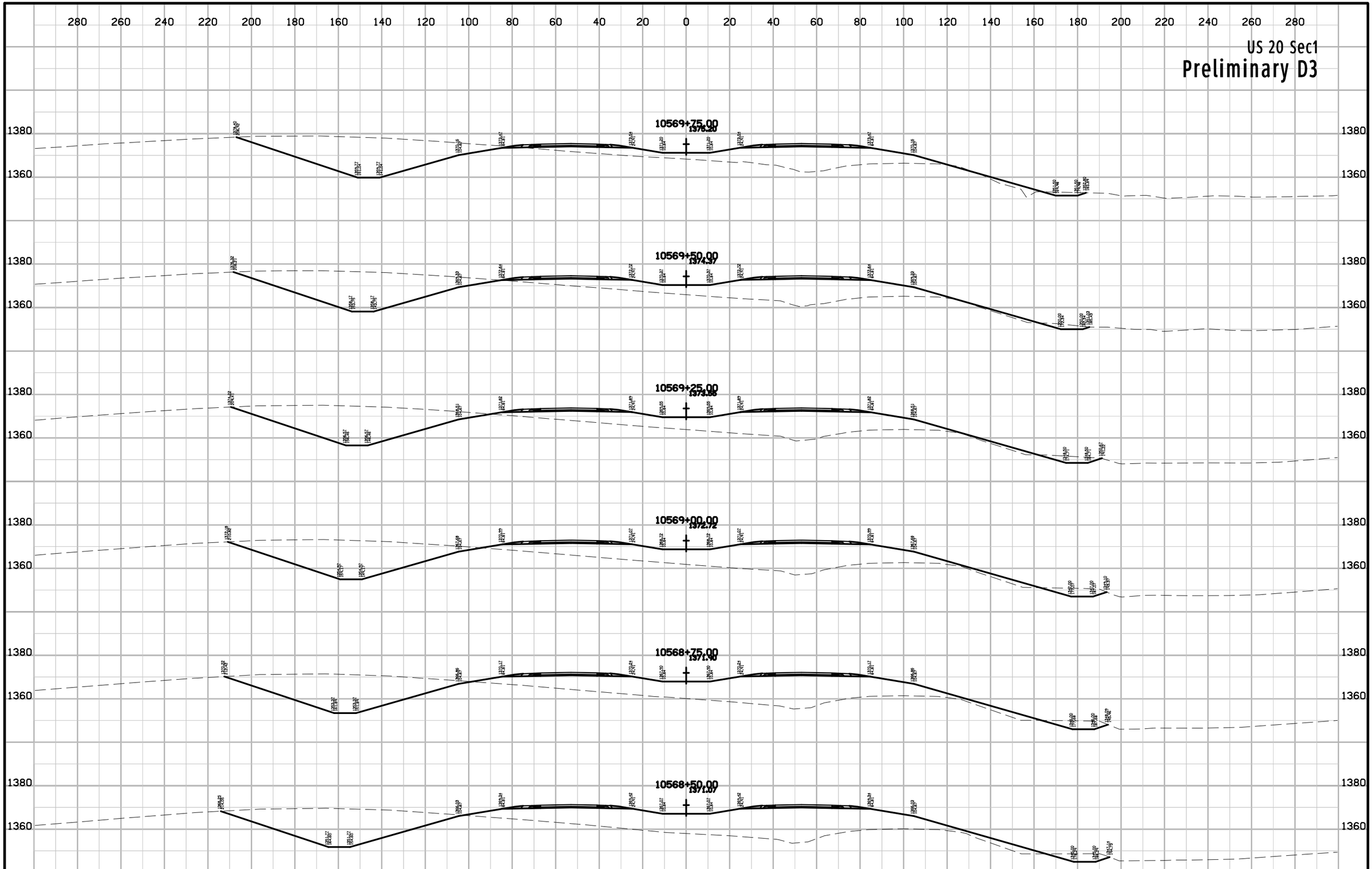


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.285

2:21:04 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

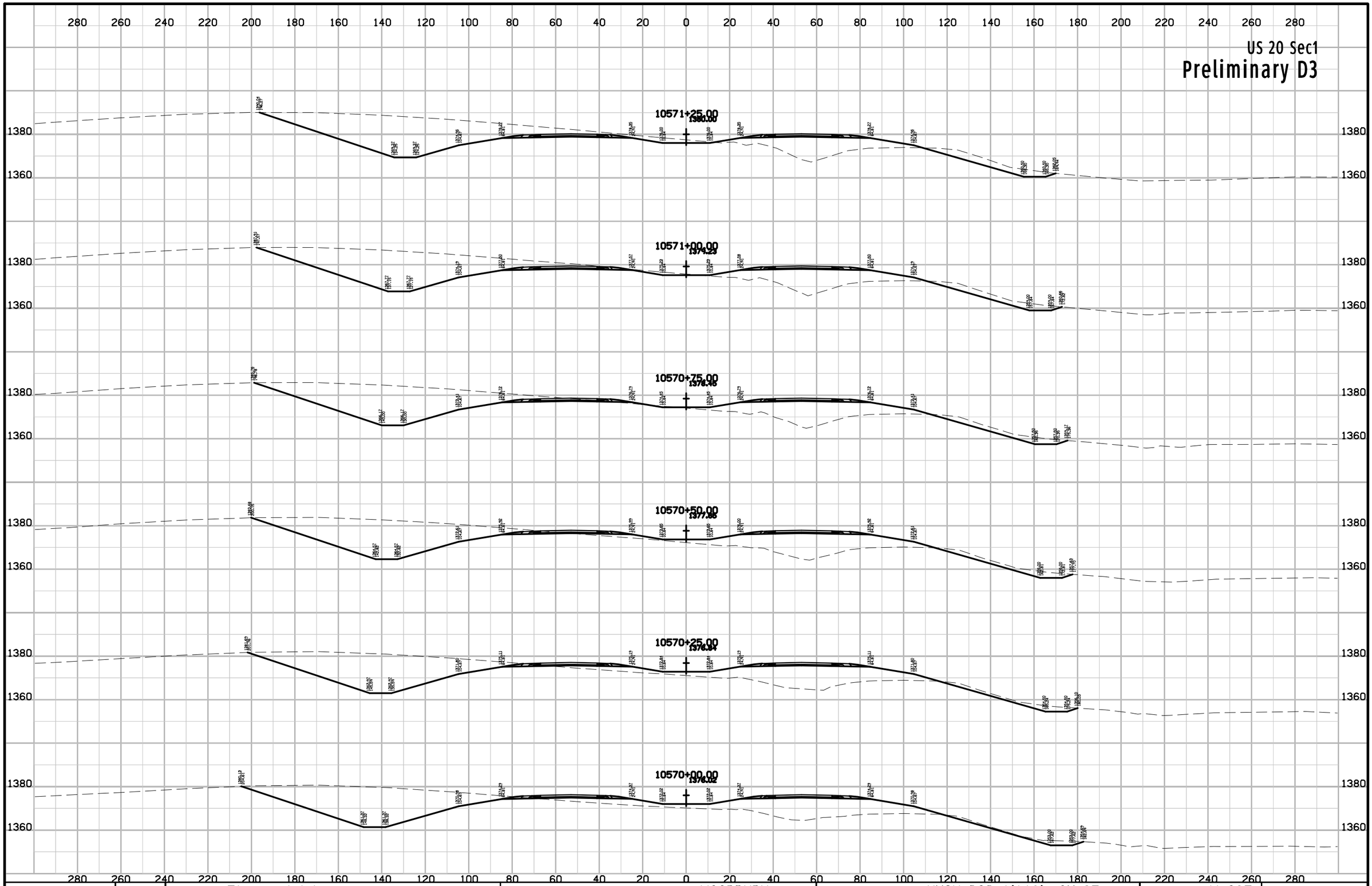


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.286

2:21:05 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

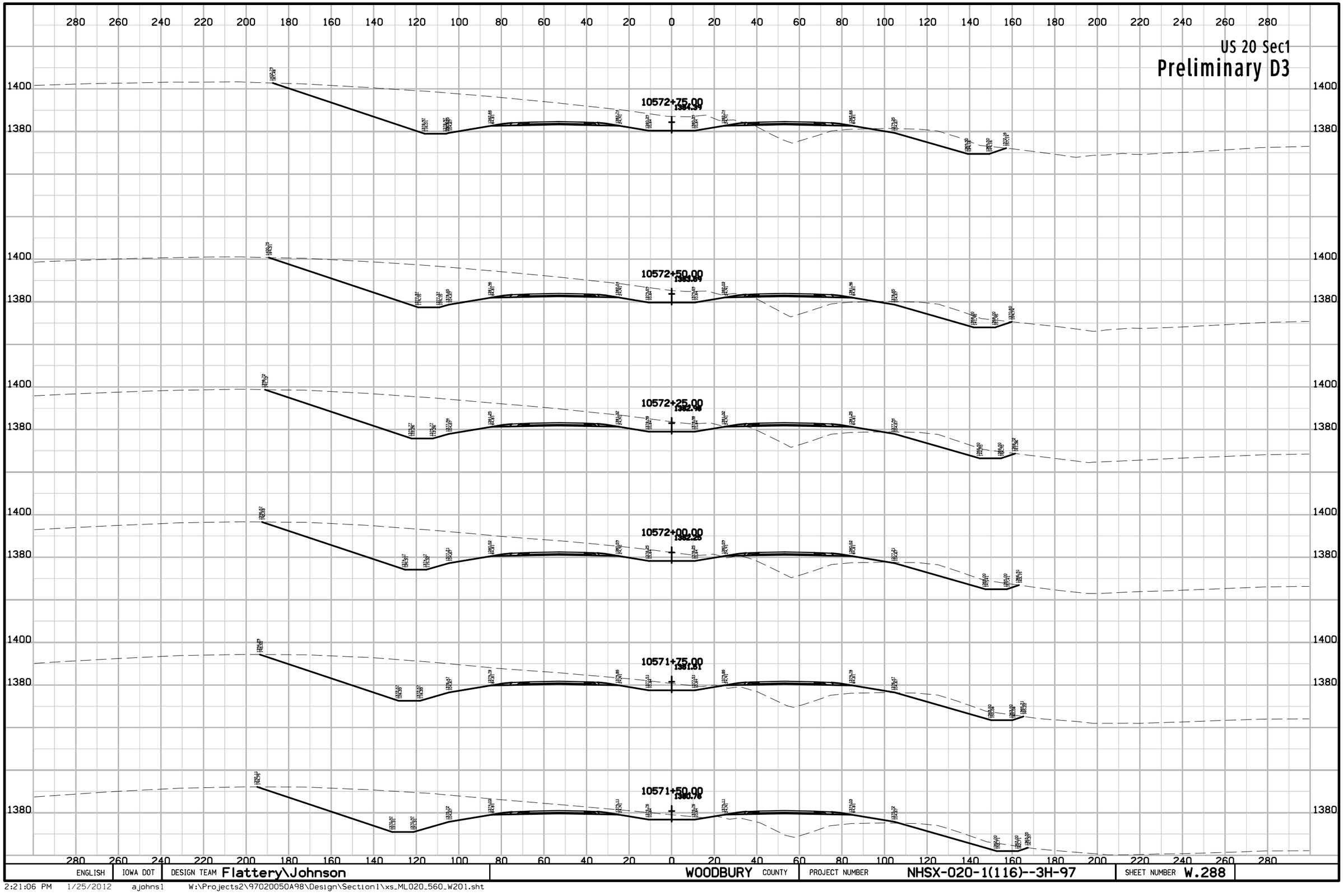


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.287

2:21:05 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

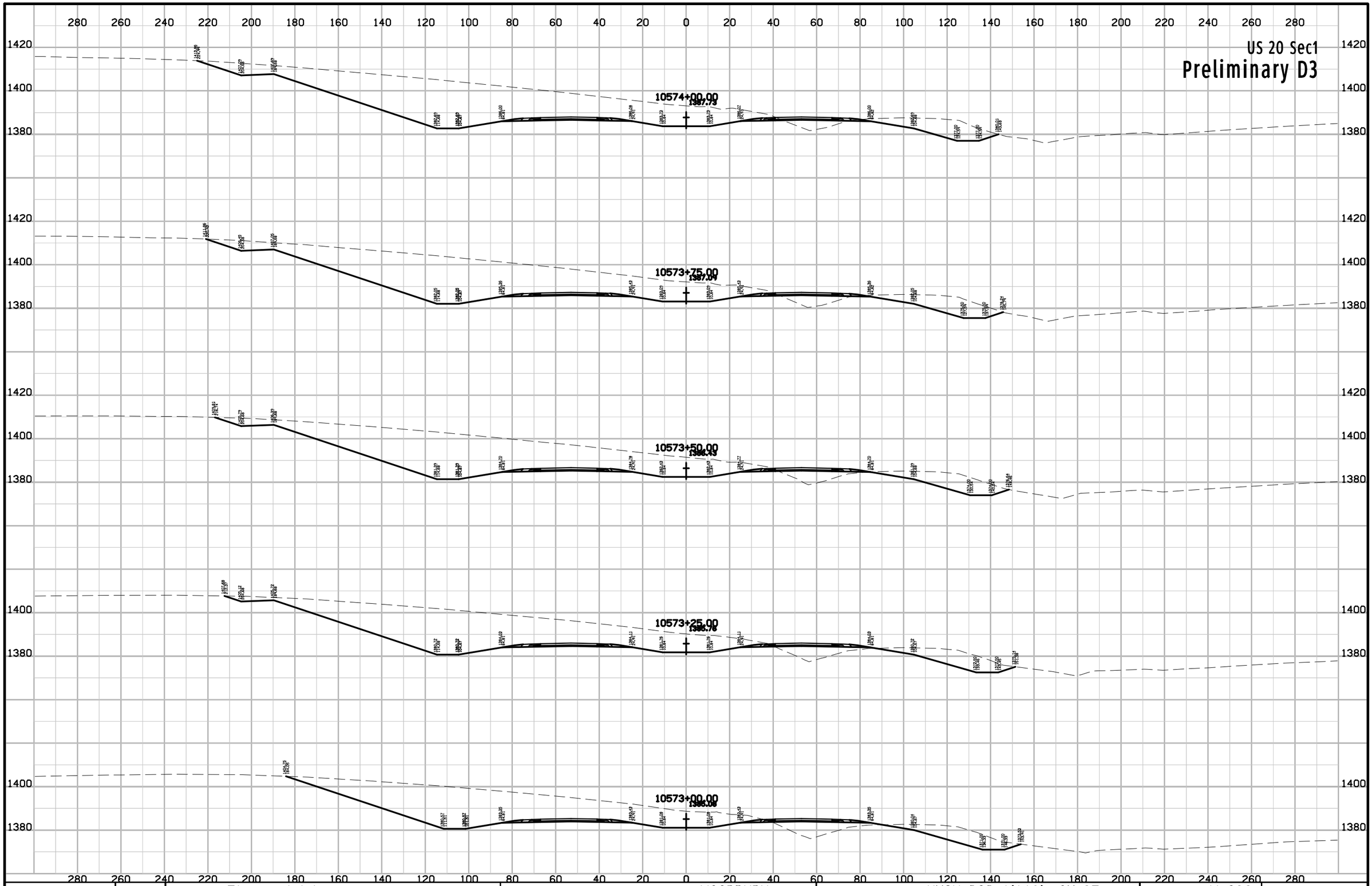


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.288

2:21:06 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

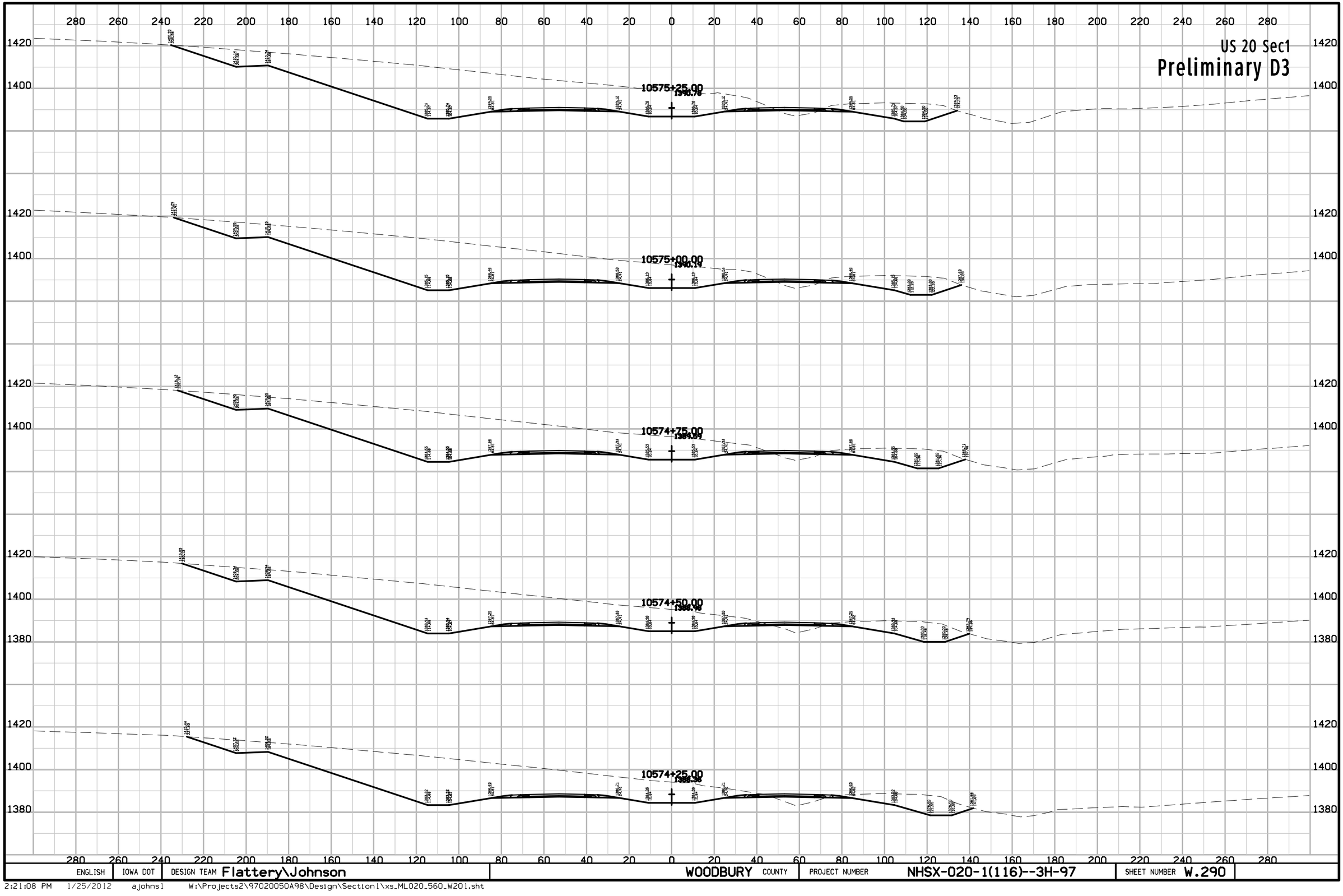


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.289

2:21:07 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

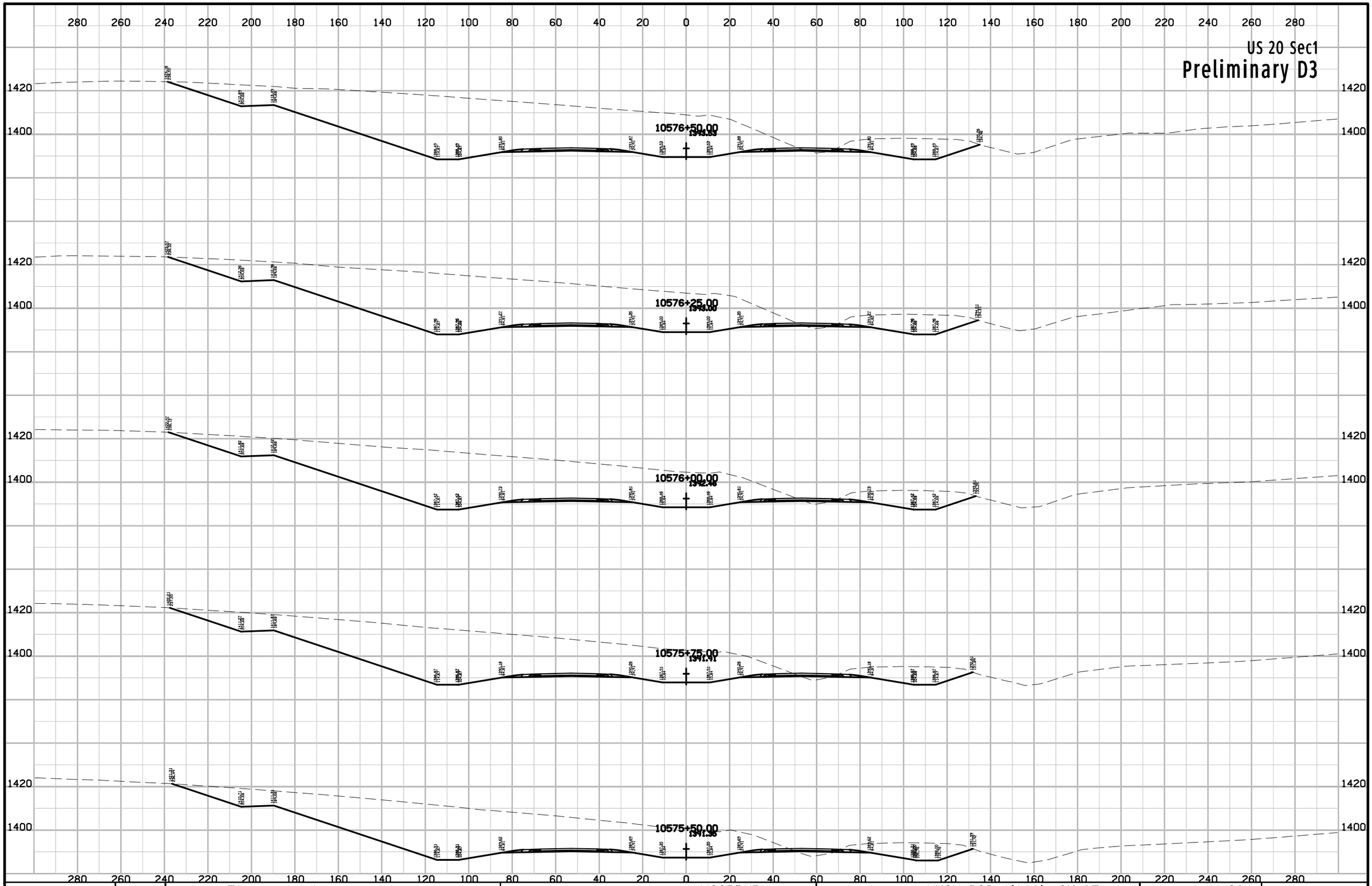


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.290

2:21:08 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

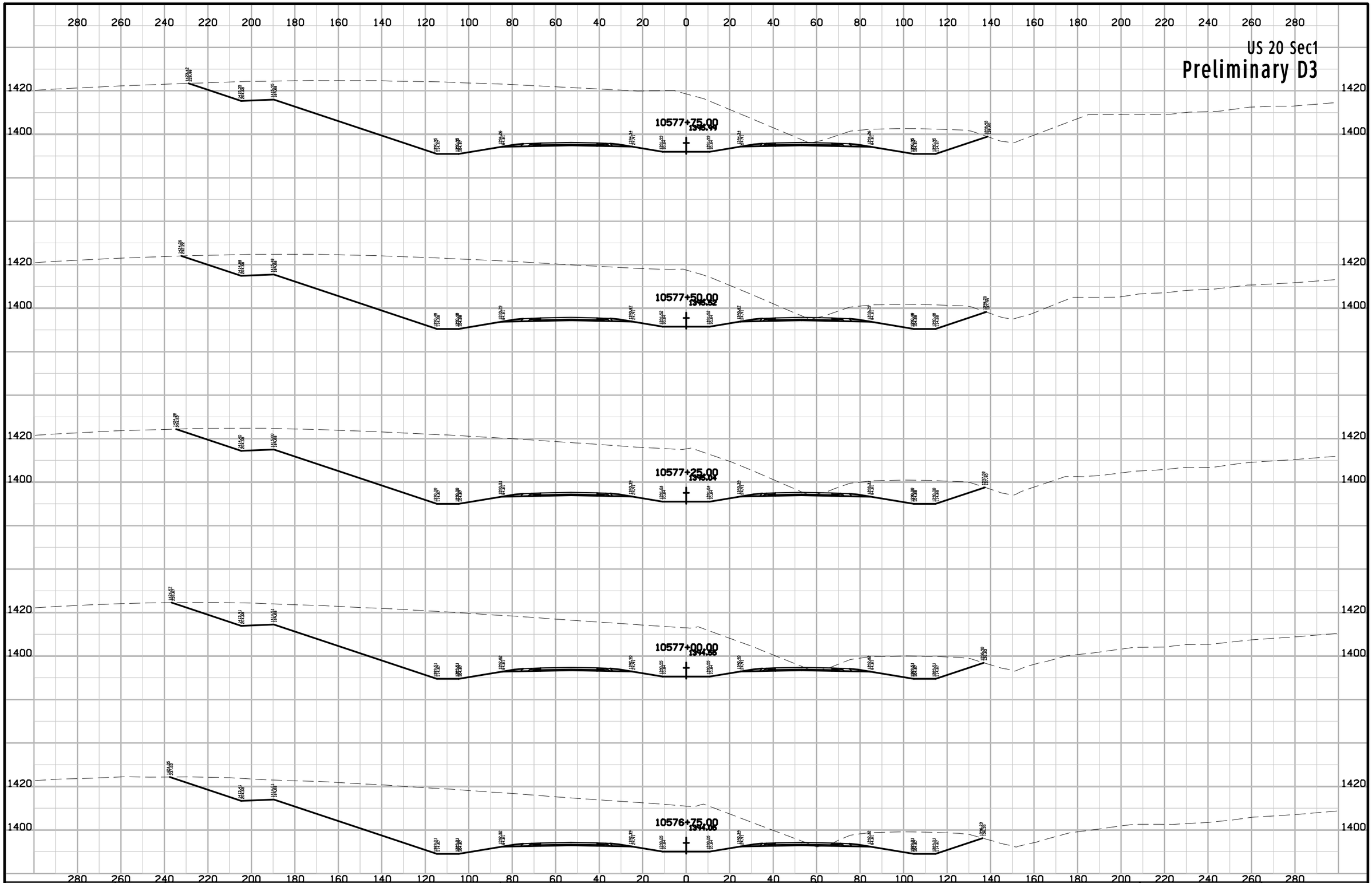


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.291

2:21:09 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.292

2:21:10 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

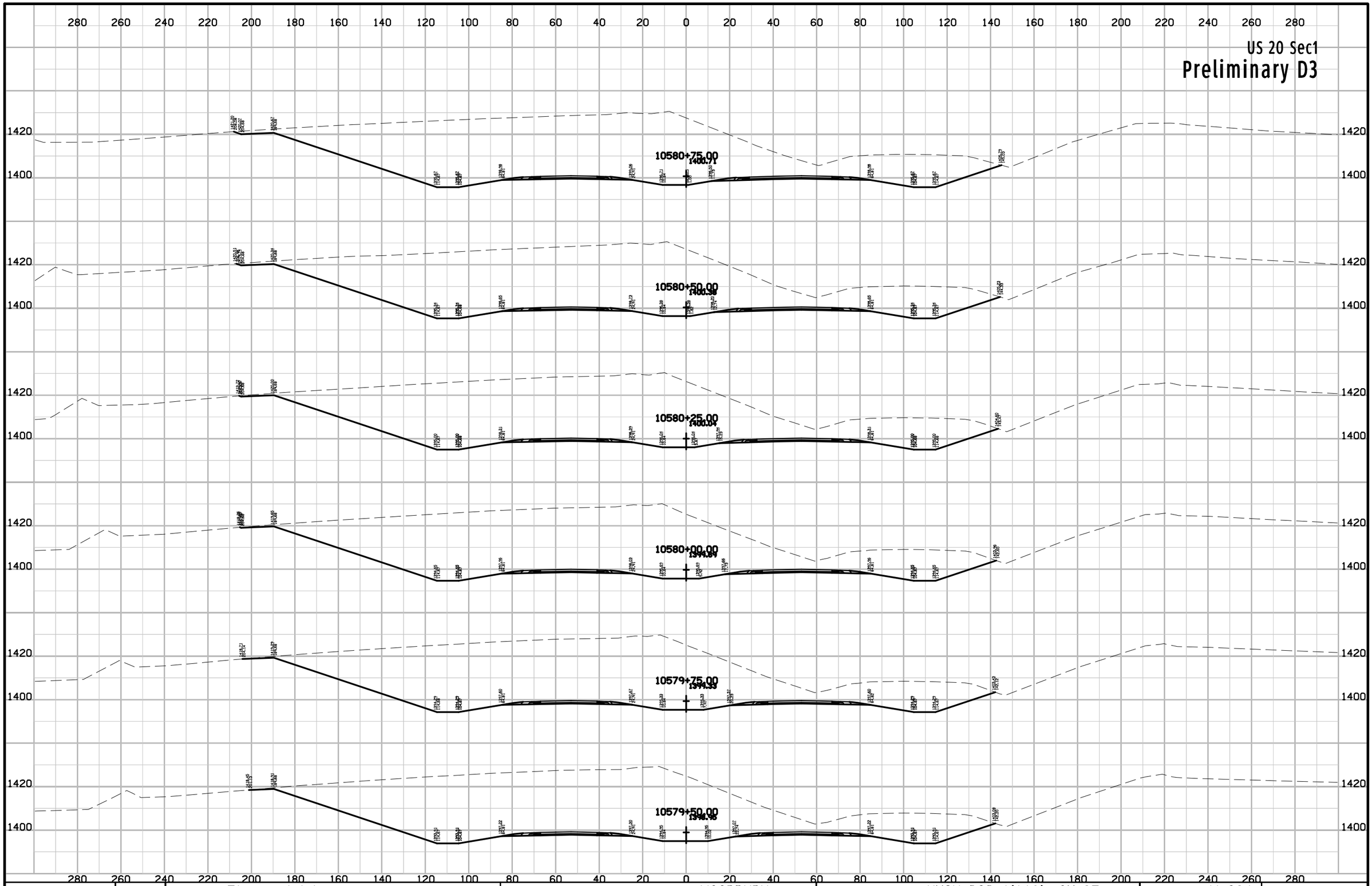
Preliminary D3

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.293

2:21:11 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

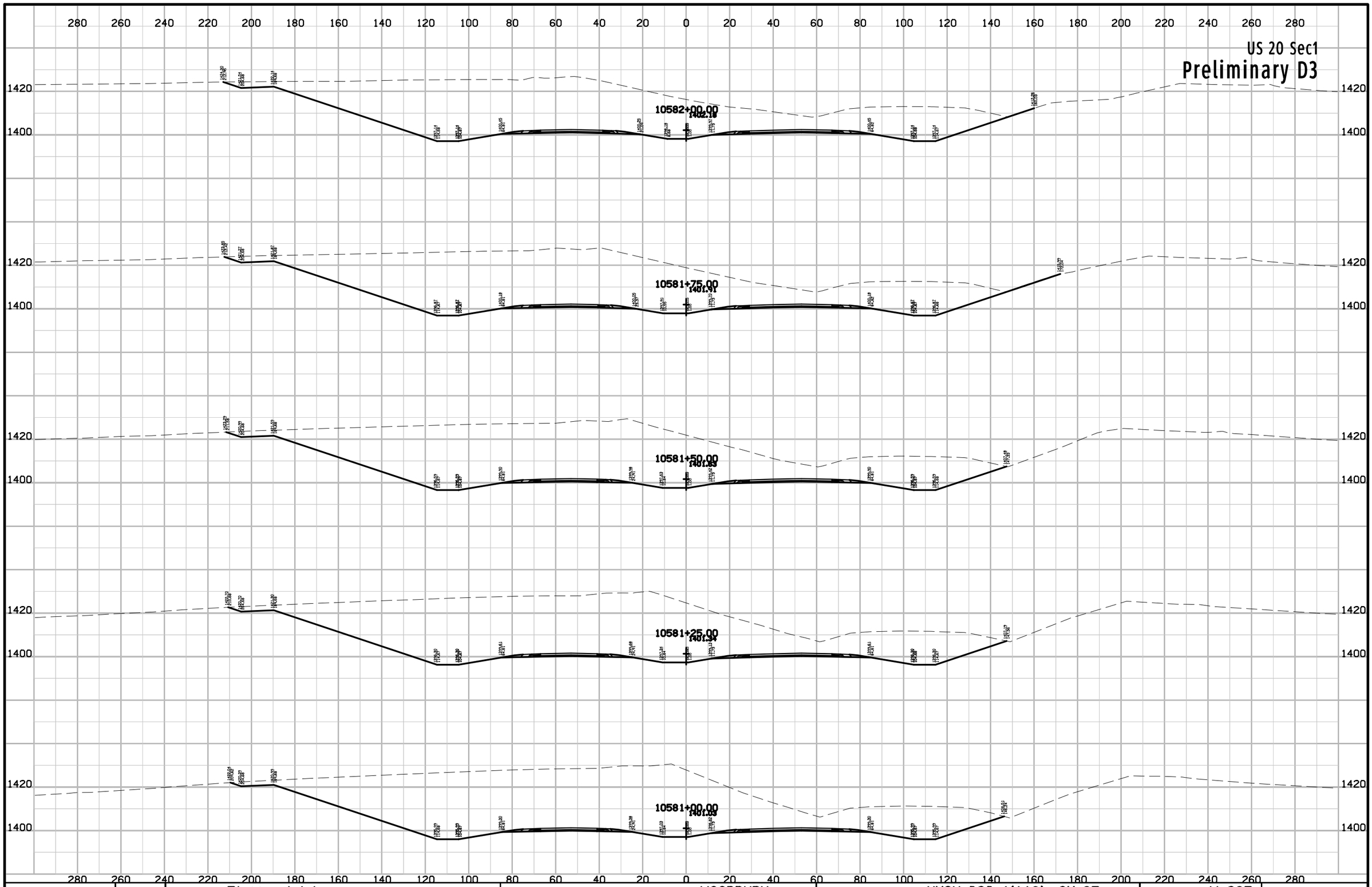


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.294

2:21:12 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.295

2:21:12 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

10583+50.00

10583+25.00

10583+00.00

10582+75.00

10582+50.00

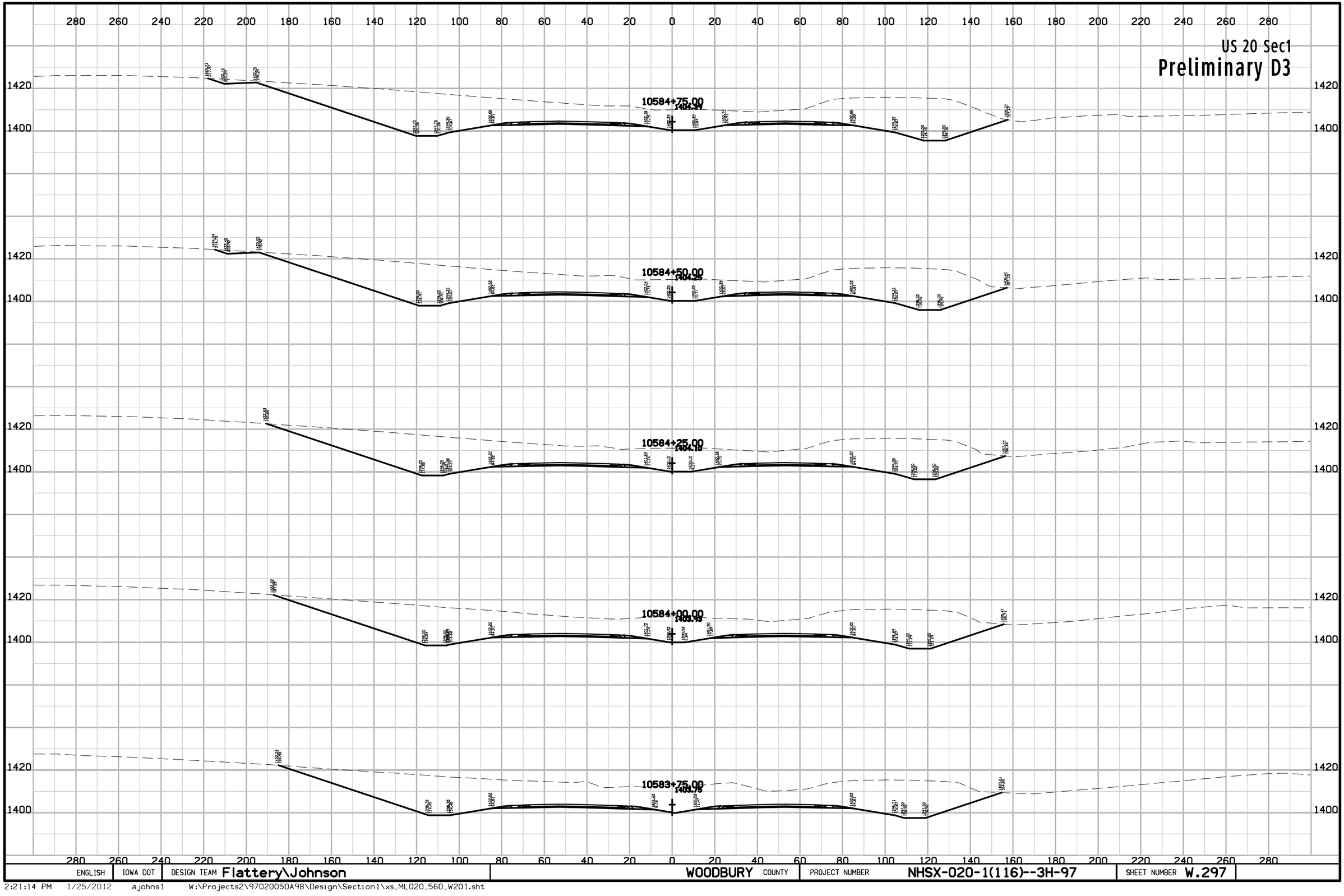
10582+25.00

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.296

2:21:13 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

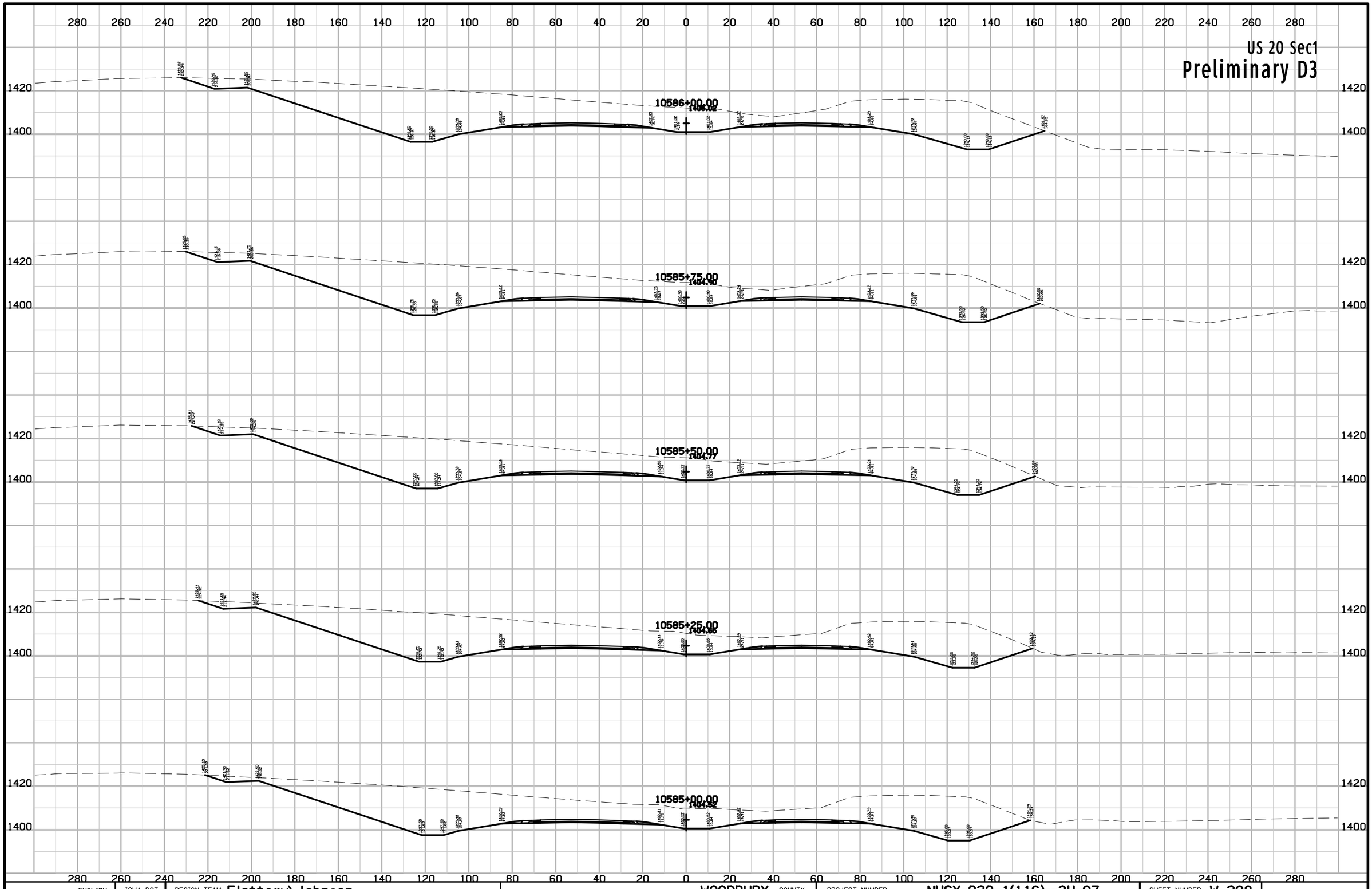


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.297

2:21:14 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

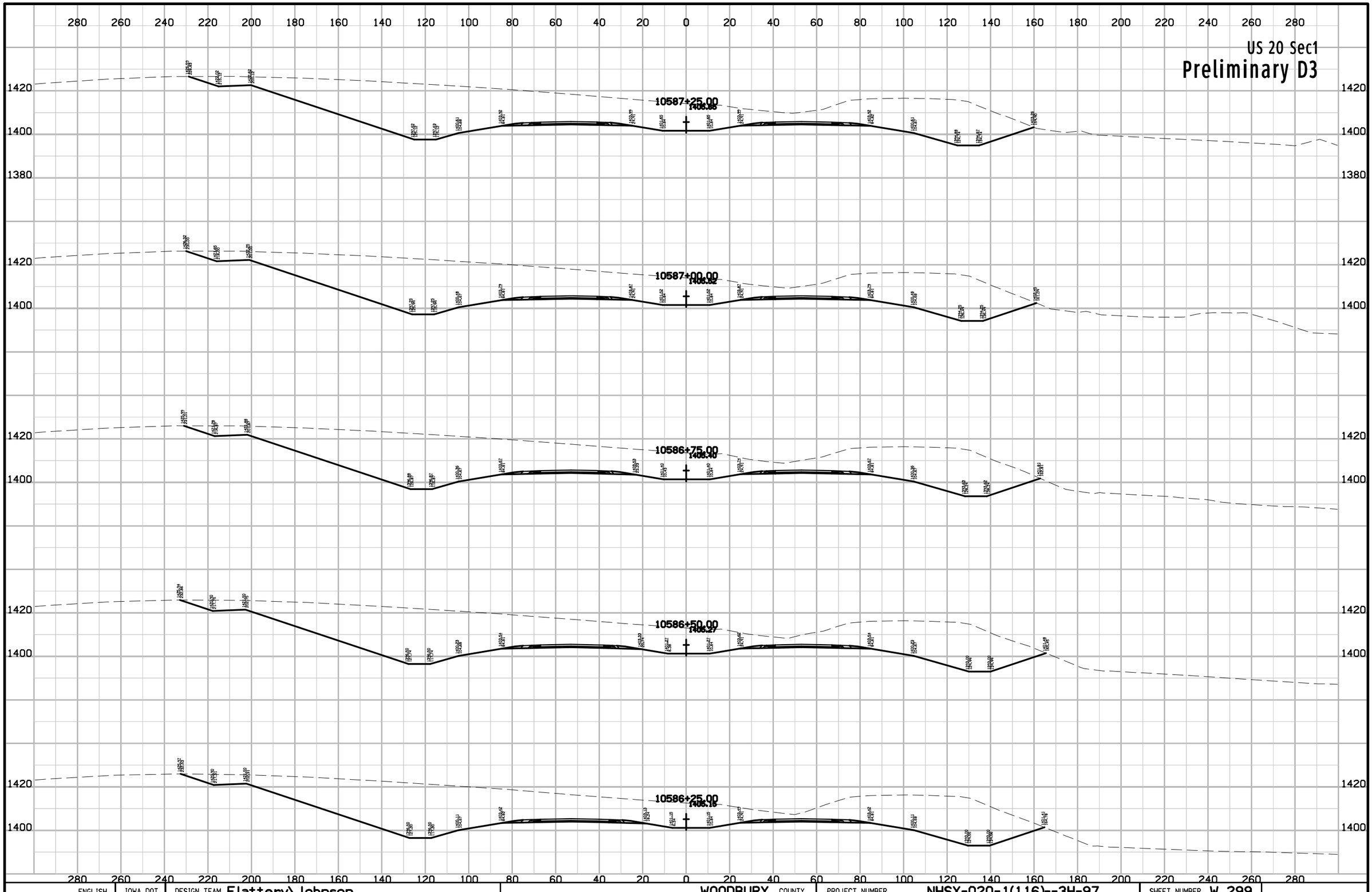


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.298

2:21:15 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.299

2:21:16 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

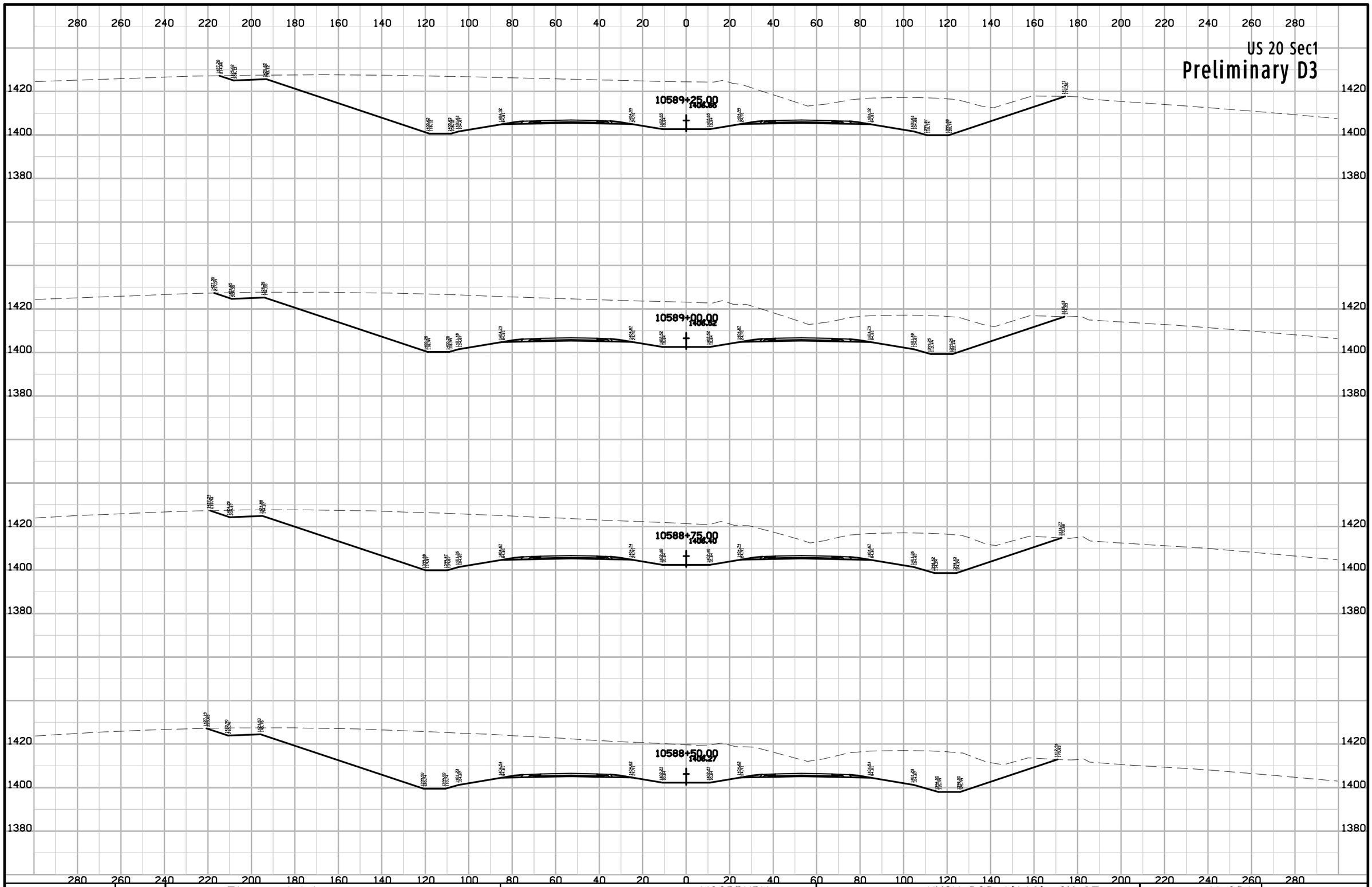
Preliminary D3

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.300

2:21:17 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W201.sht

US 20 Sec1

Preliminary D3

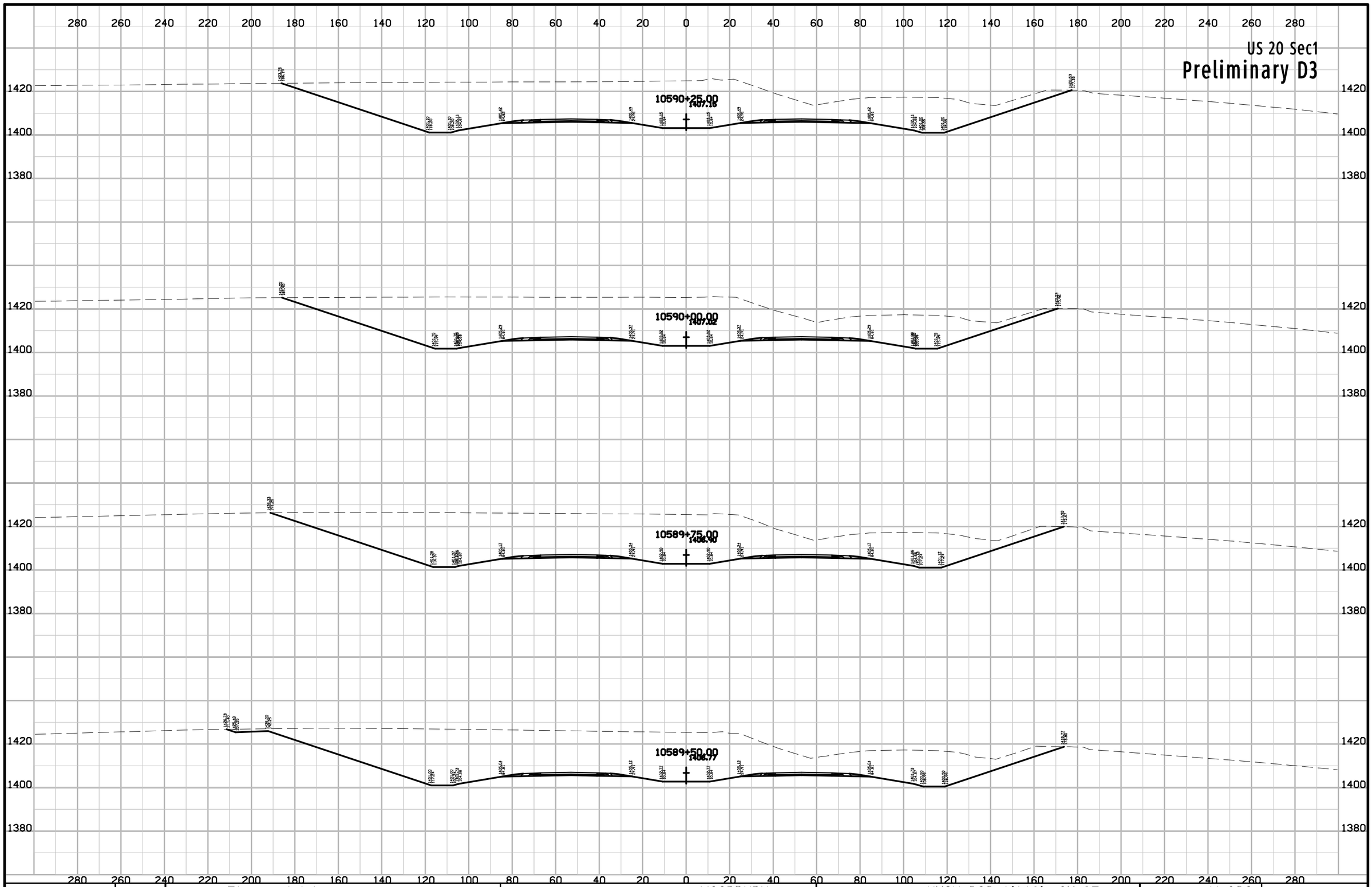


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.301

2:23:02 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

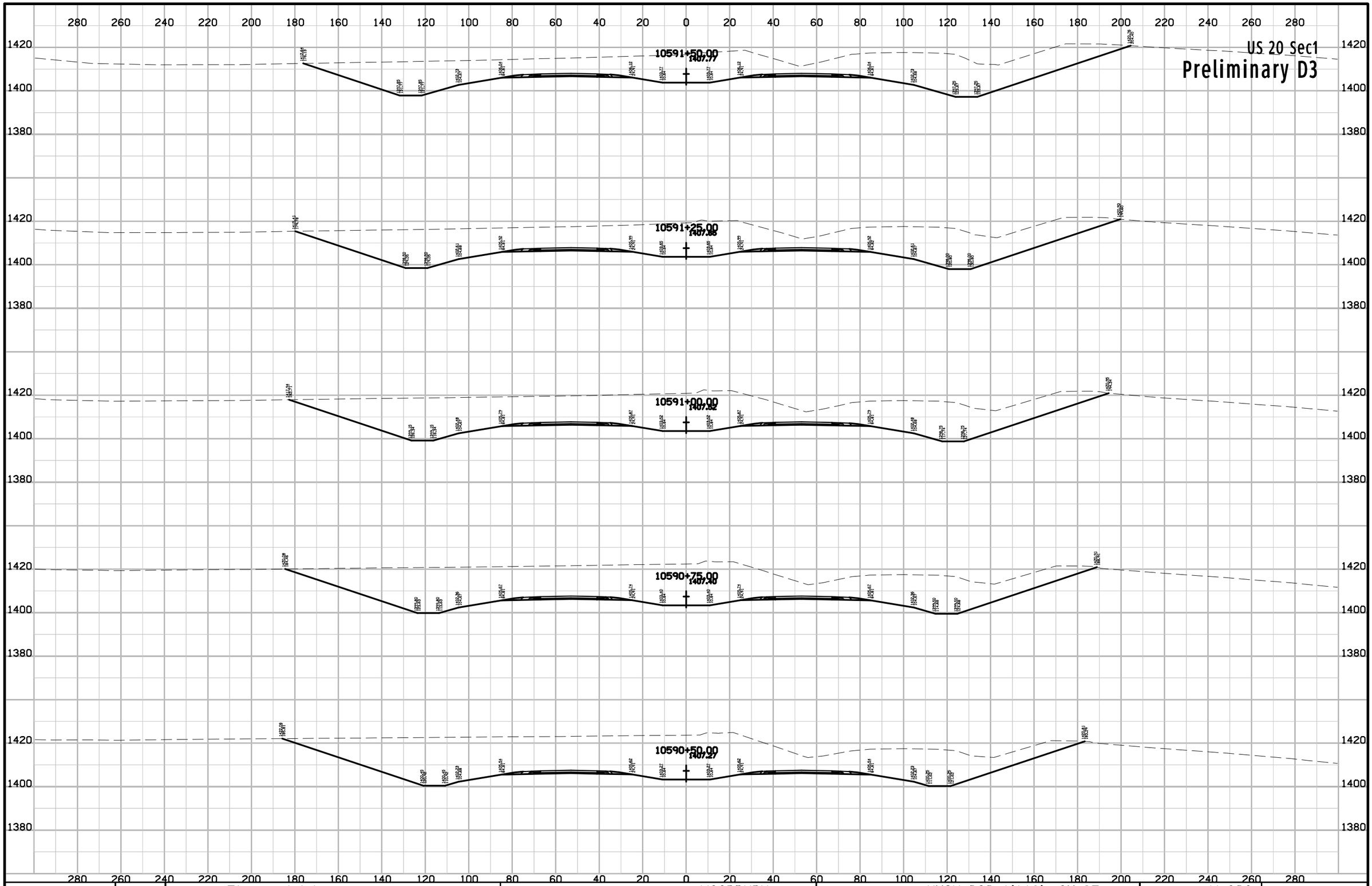


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.302

2:23:03 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

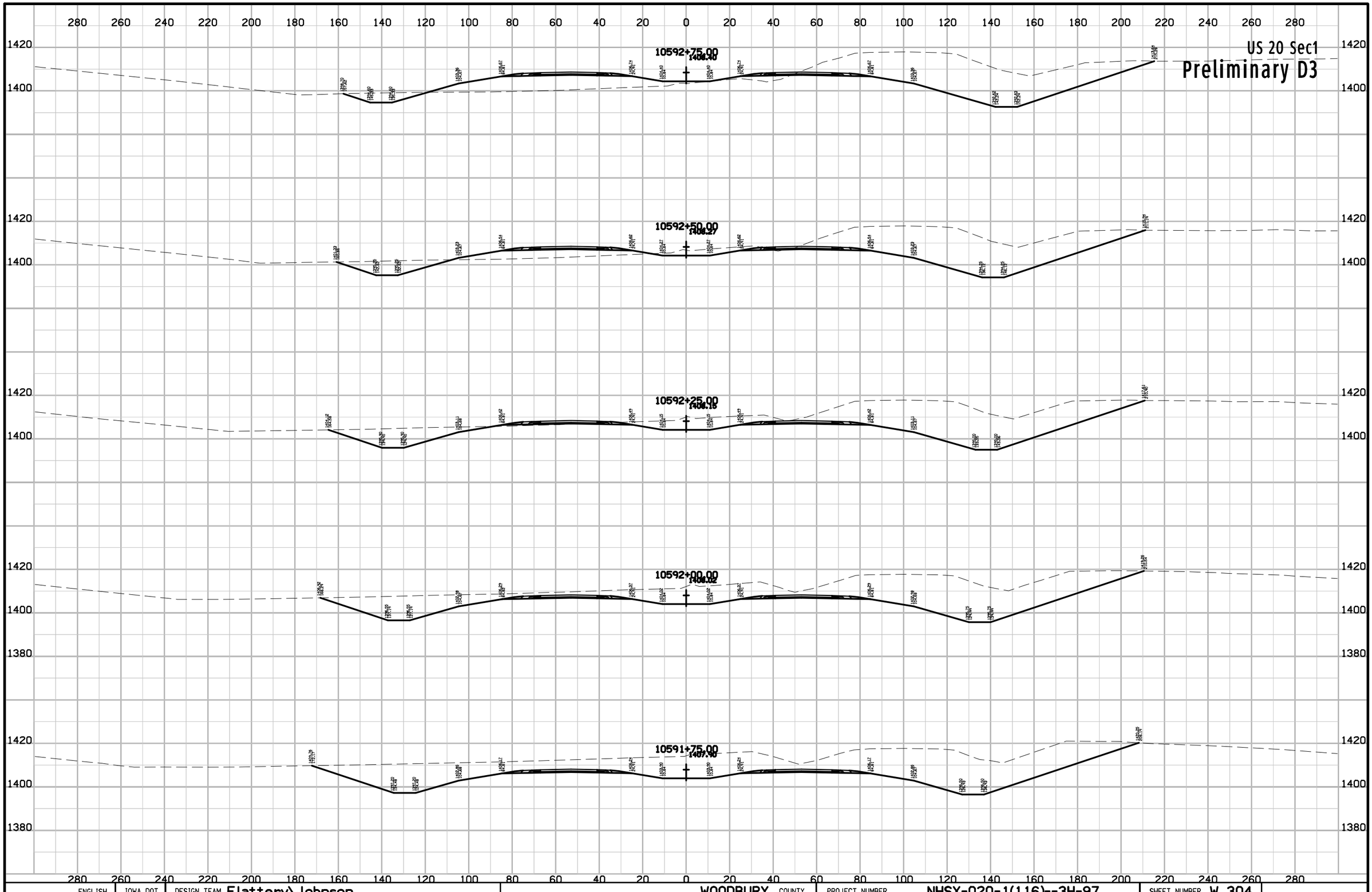


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.303

2:23:04 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

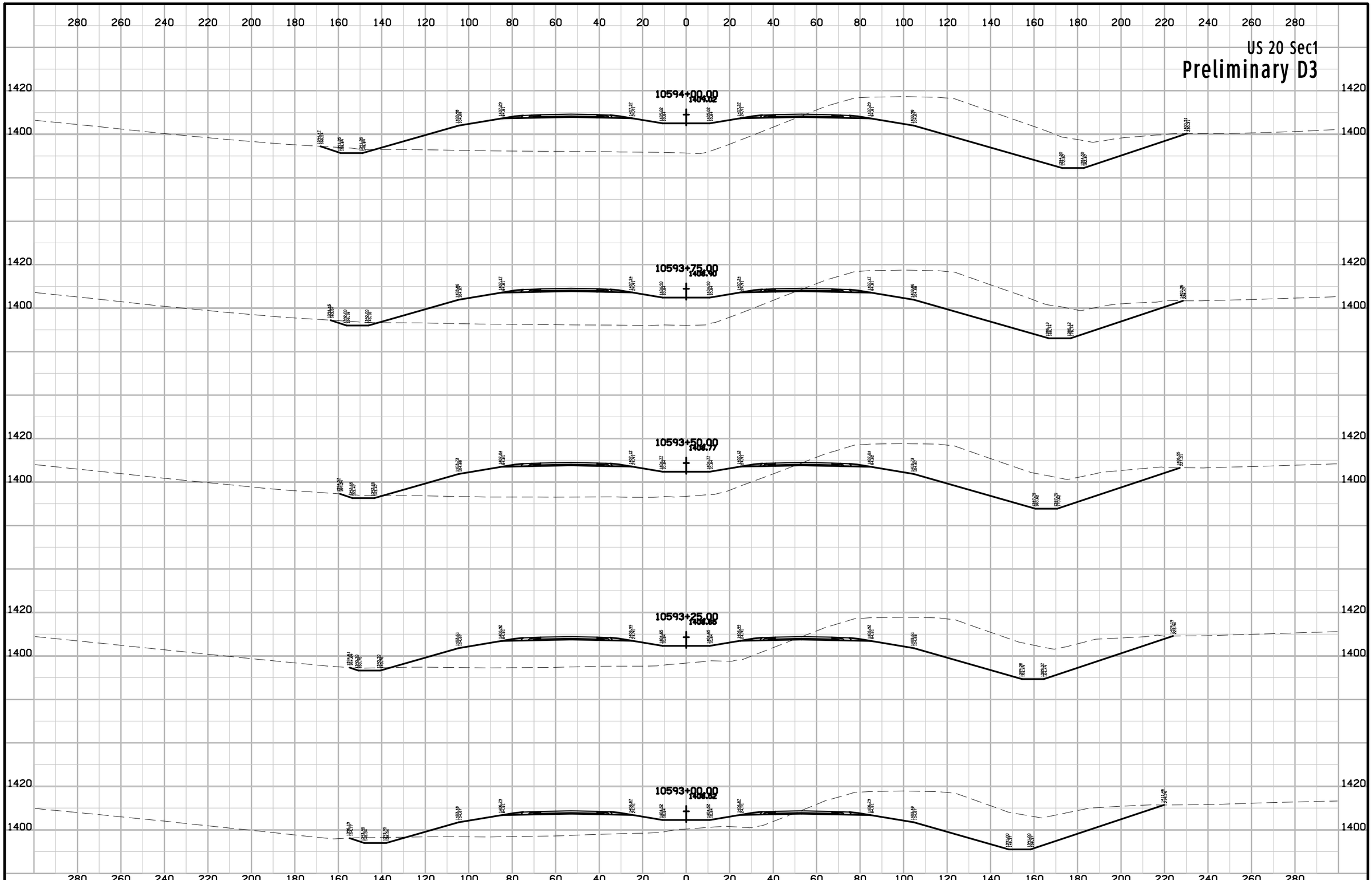


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.304

2:23:05 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

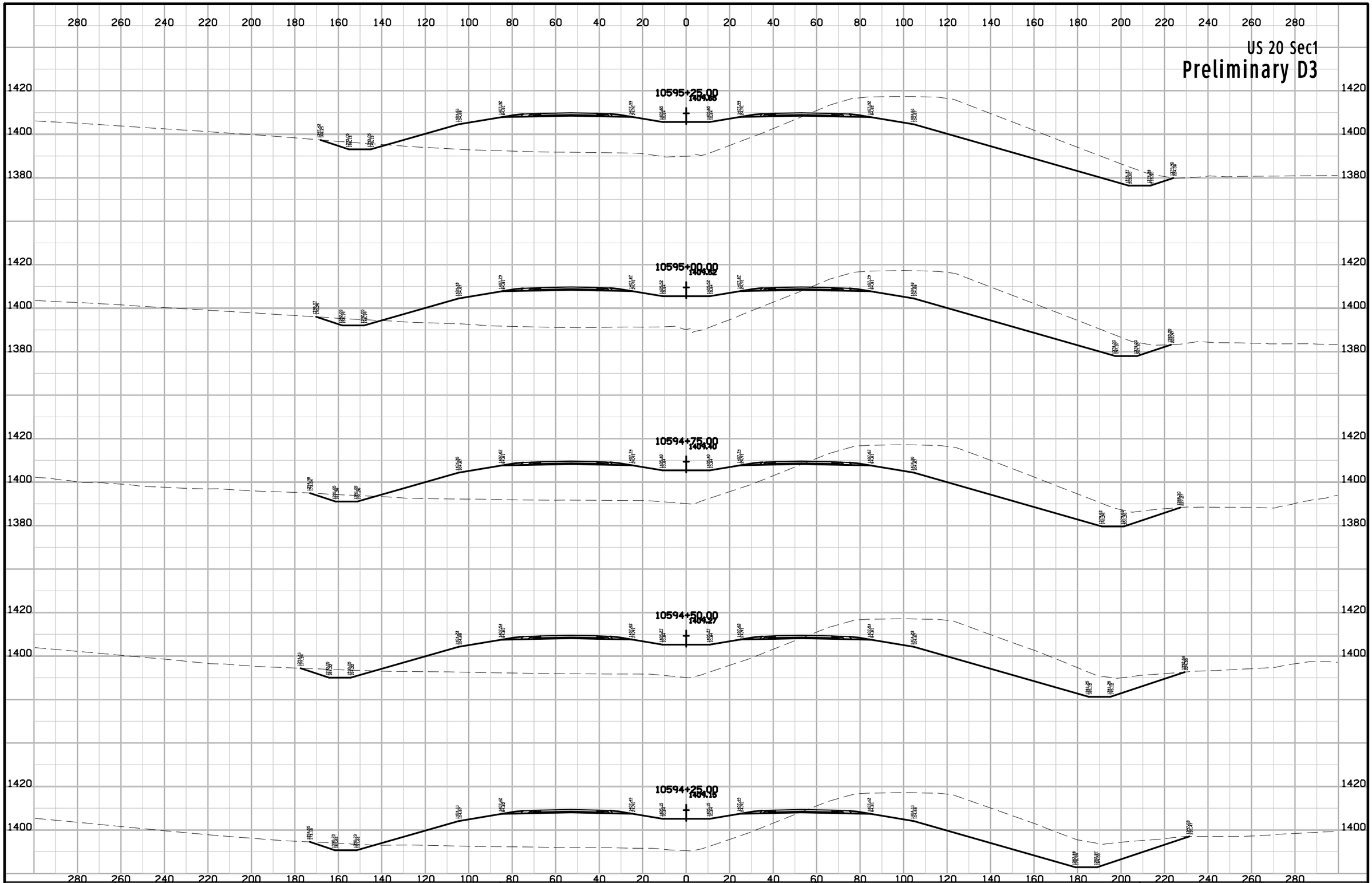


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.305

2:23:05 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

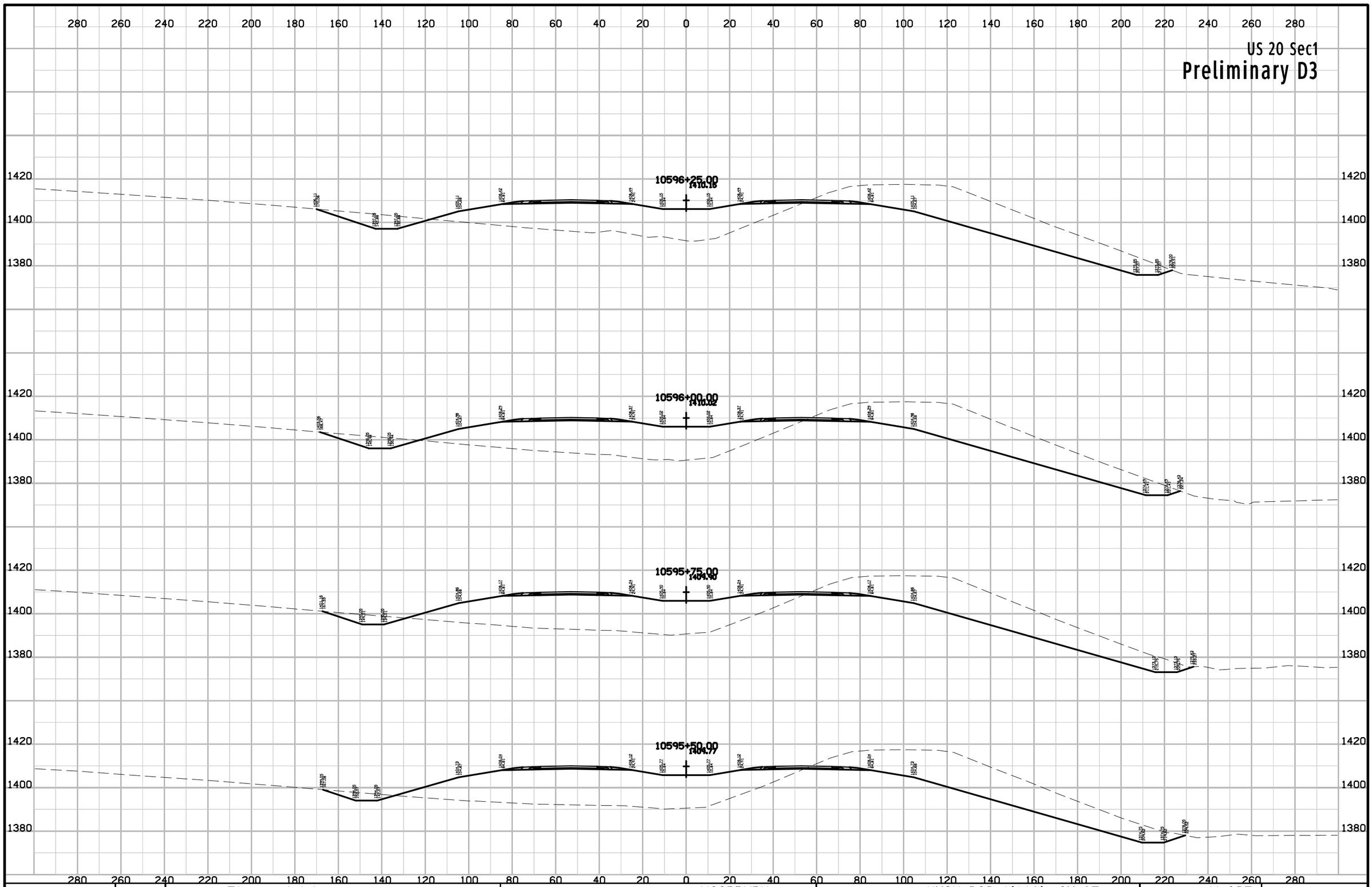


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.306

2:23:06 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

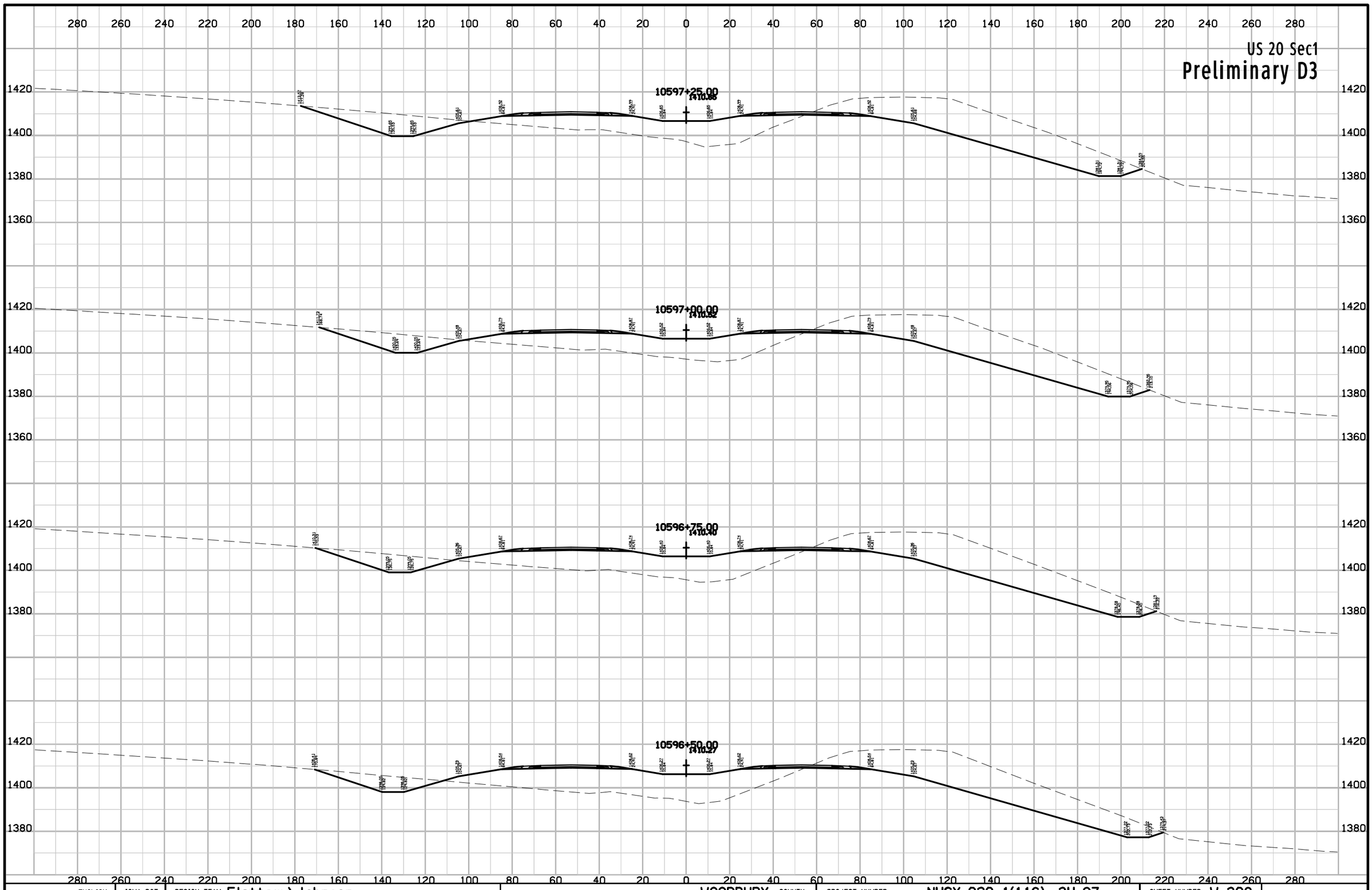


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.307

2:23:07 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

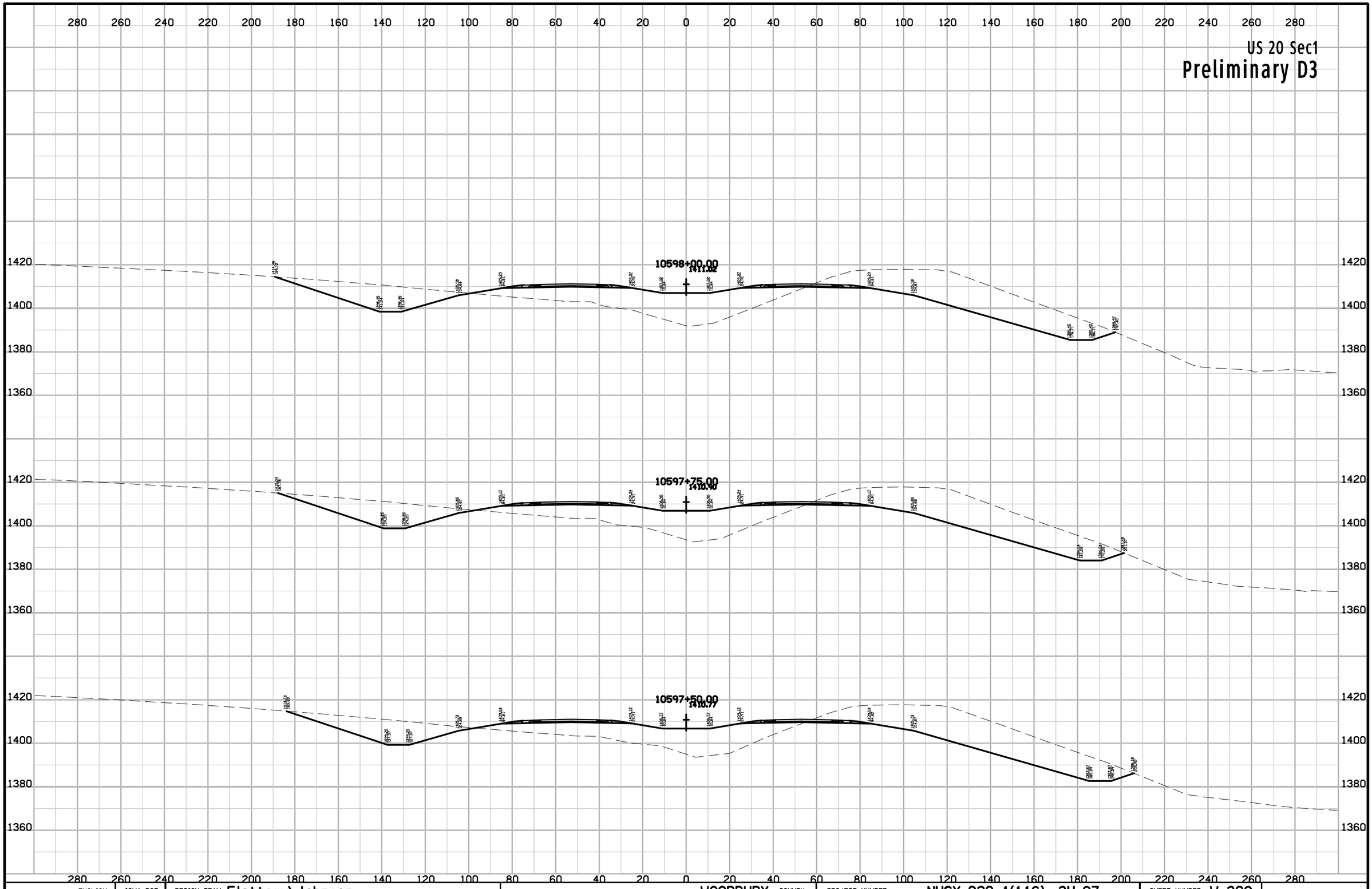


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.308

2:23:07 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

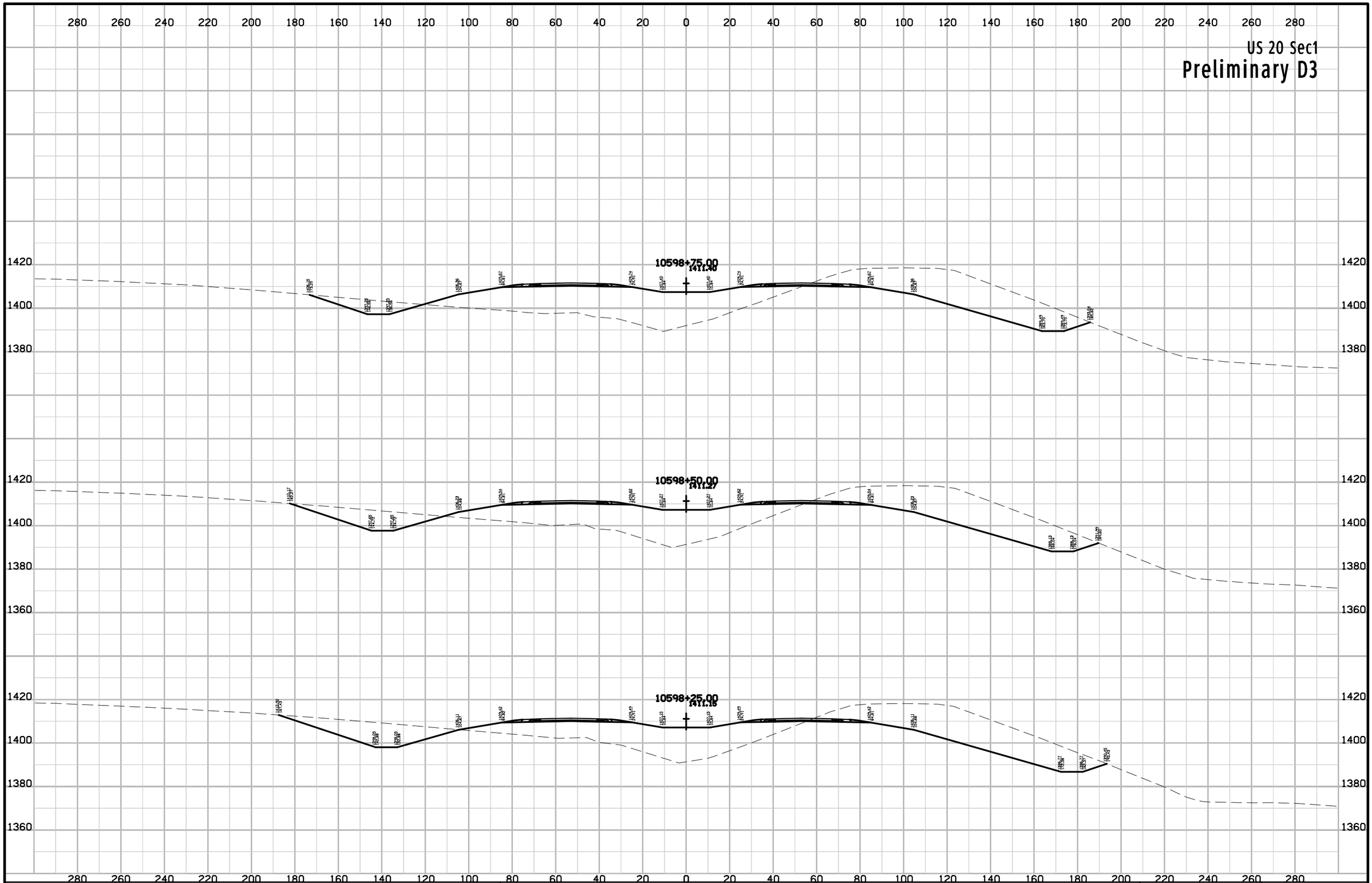


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.309	

2:23:08 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

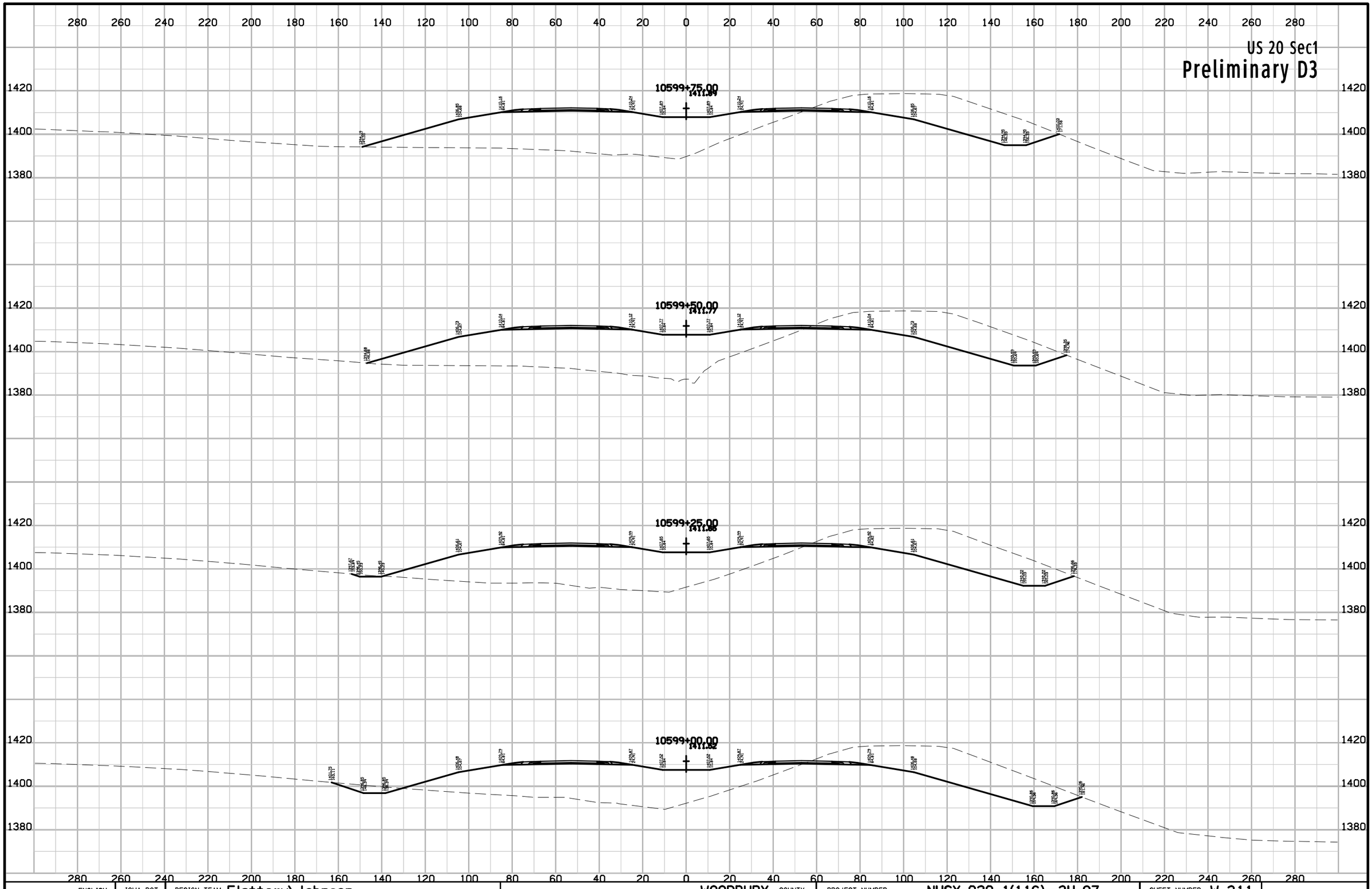


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.310	

2:23:09 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

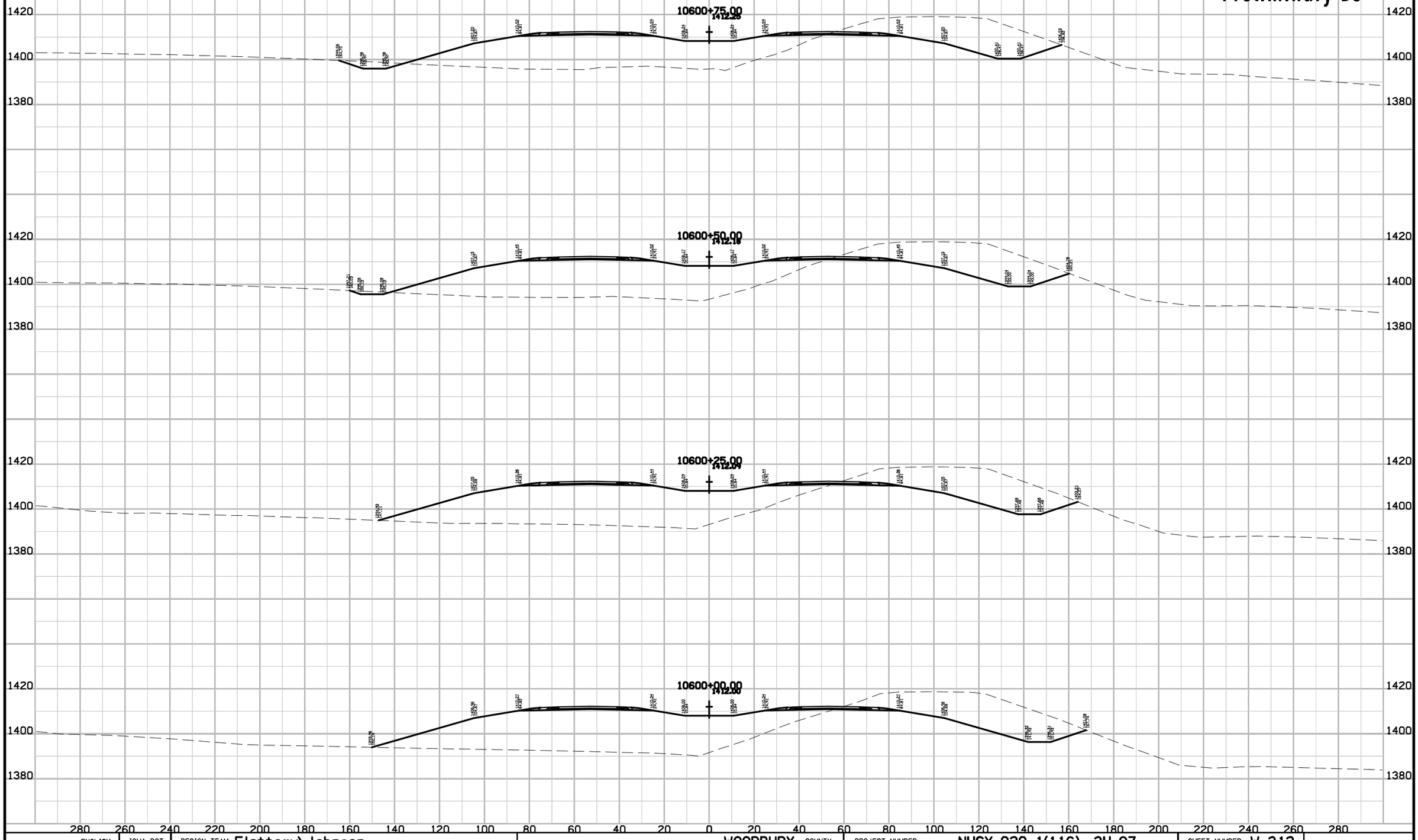


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.311

2:23:09 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

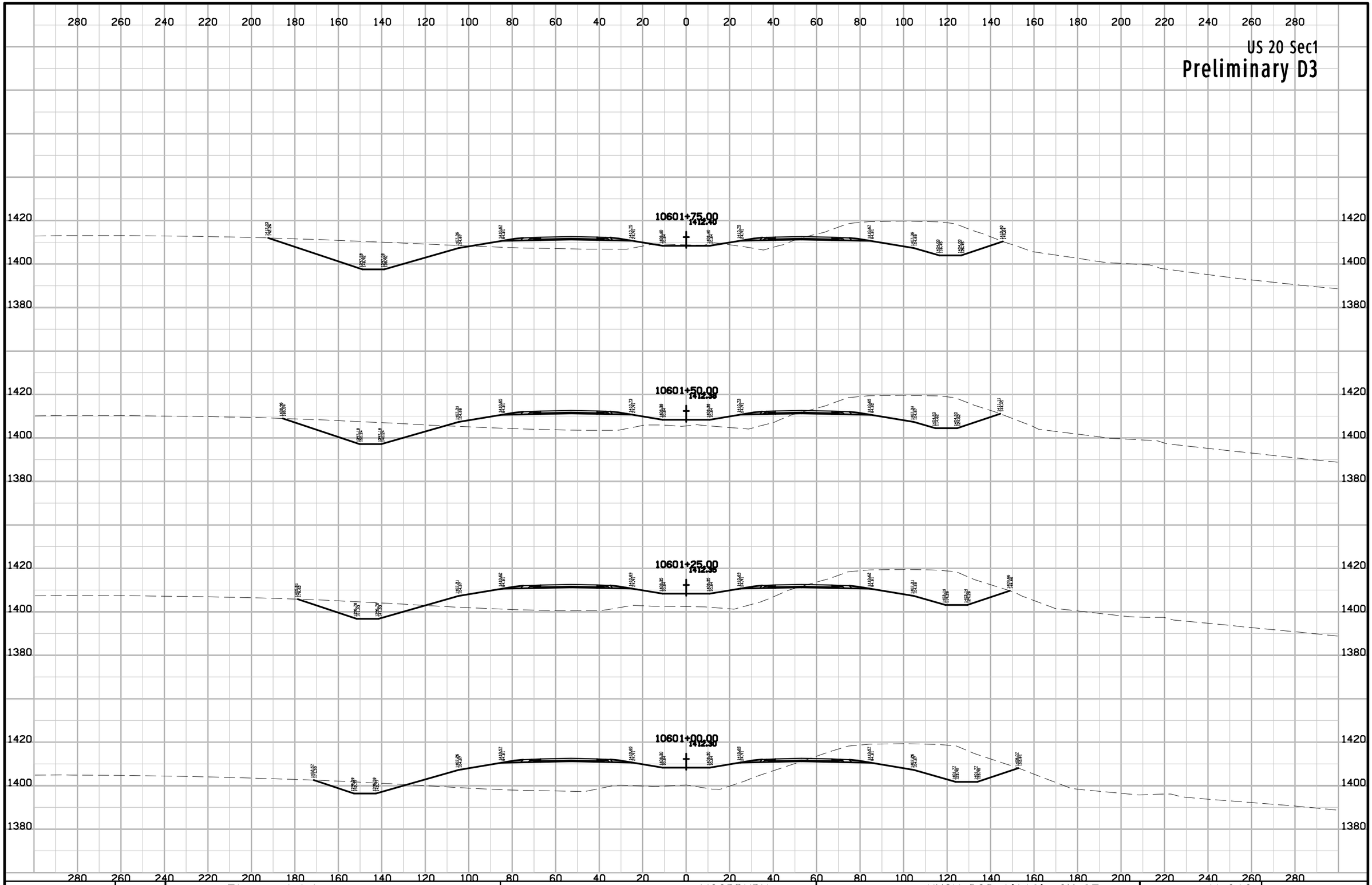


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.312

2:23:10 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

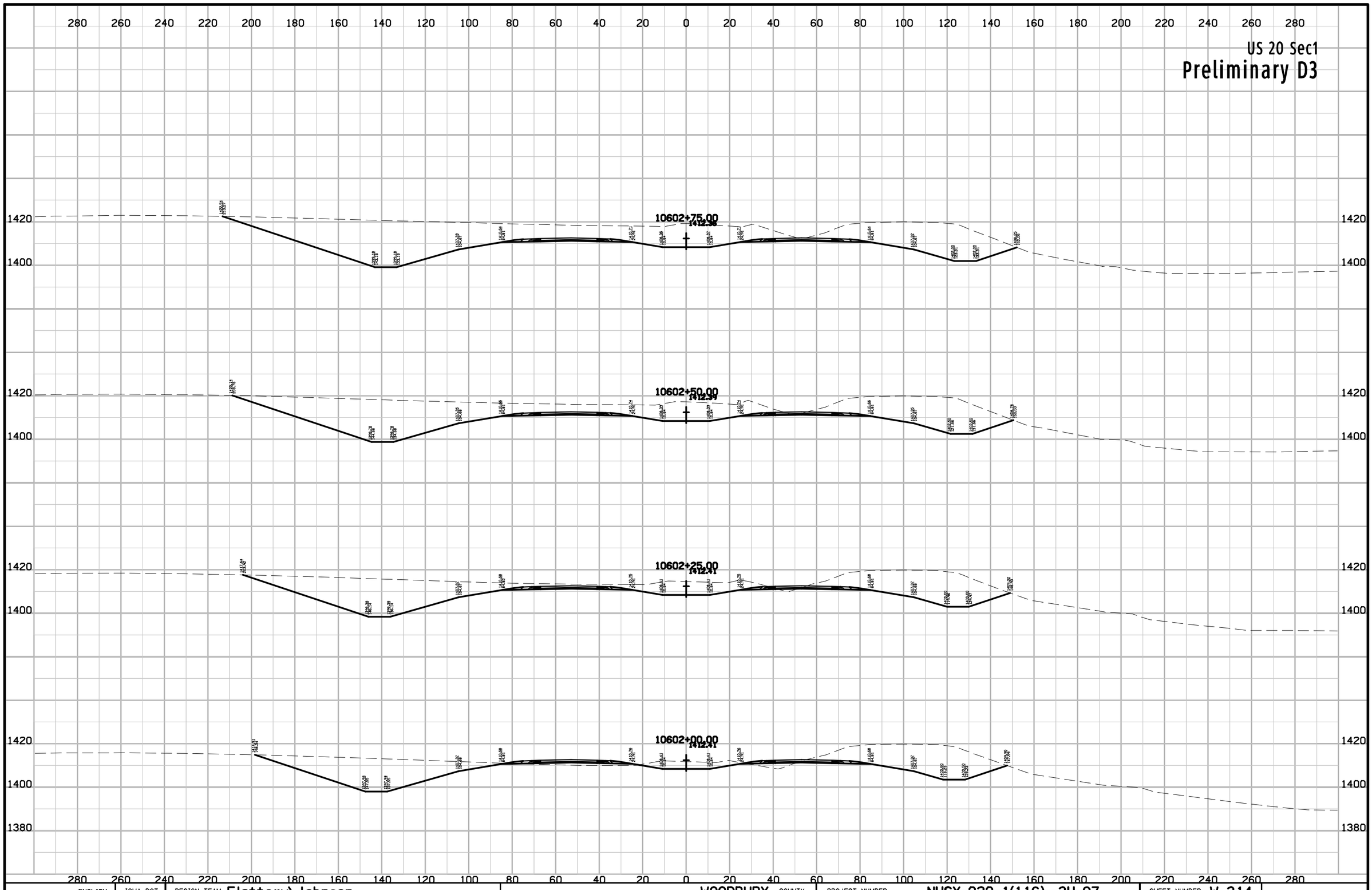


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.313

2:23:11 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

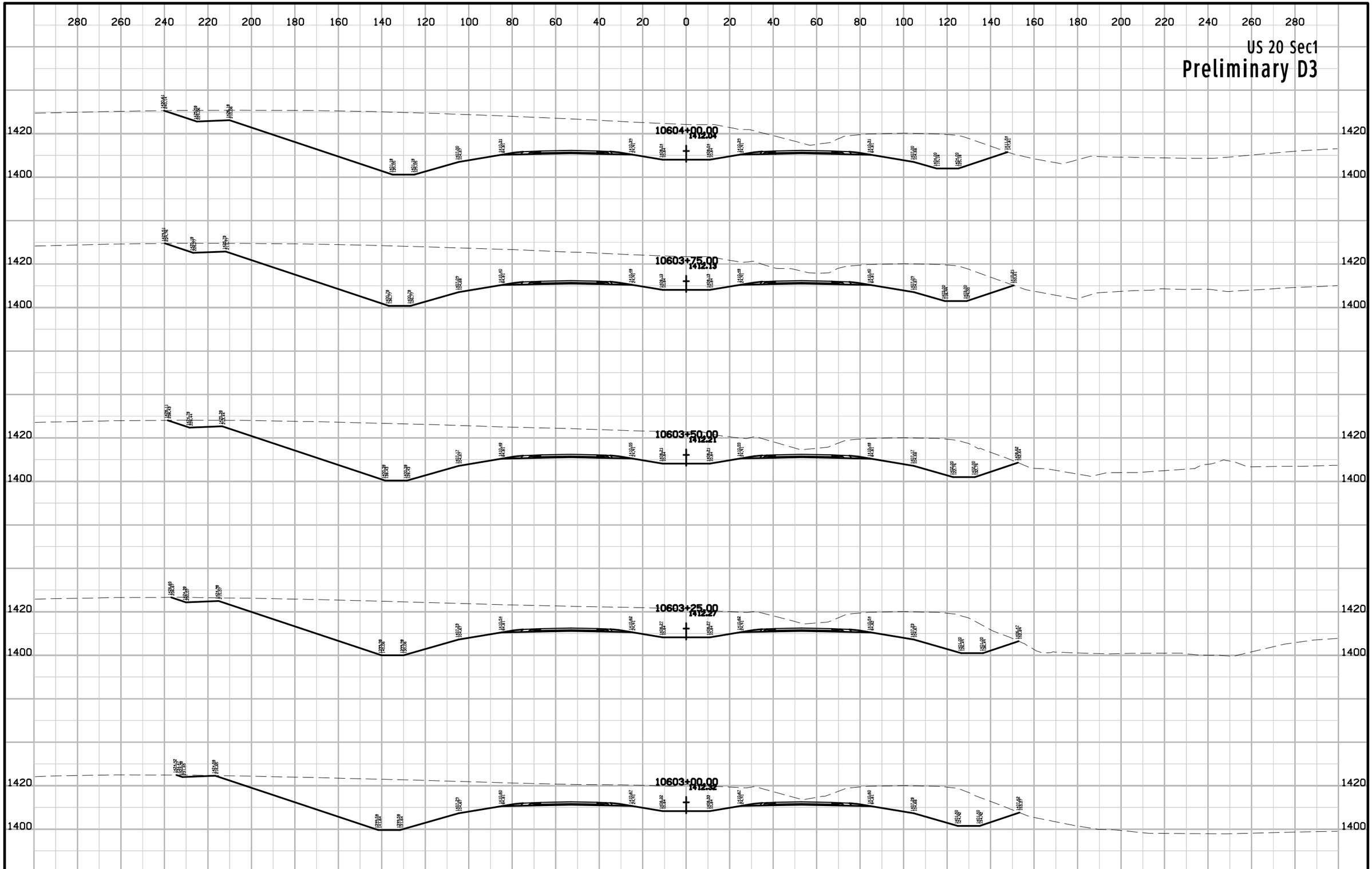


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.314	

2:23:12 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

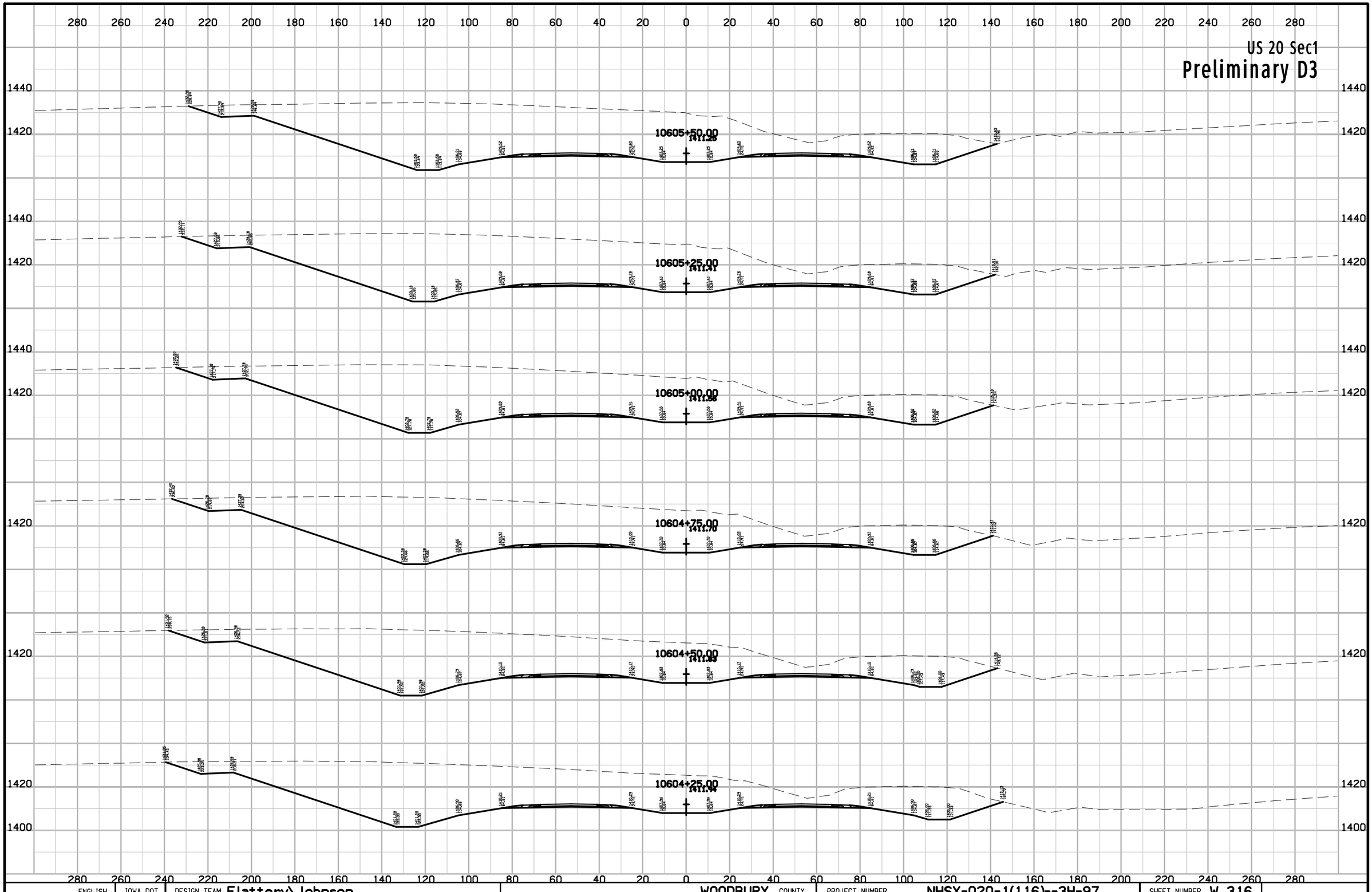


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.315

2:23:12 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

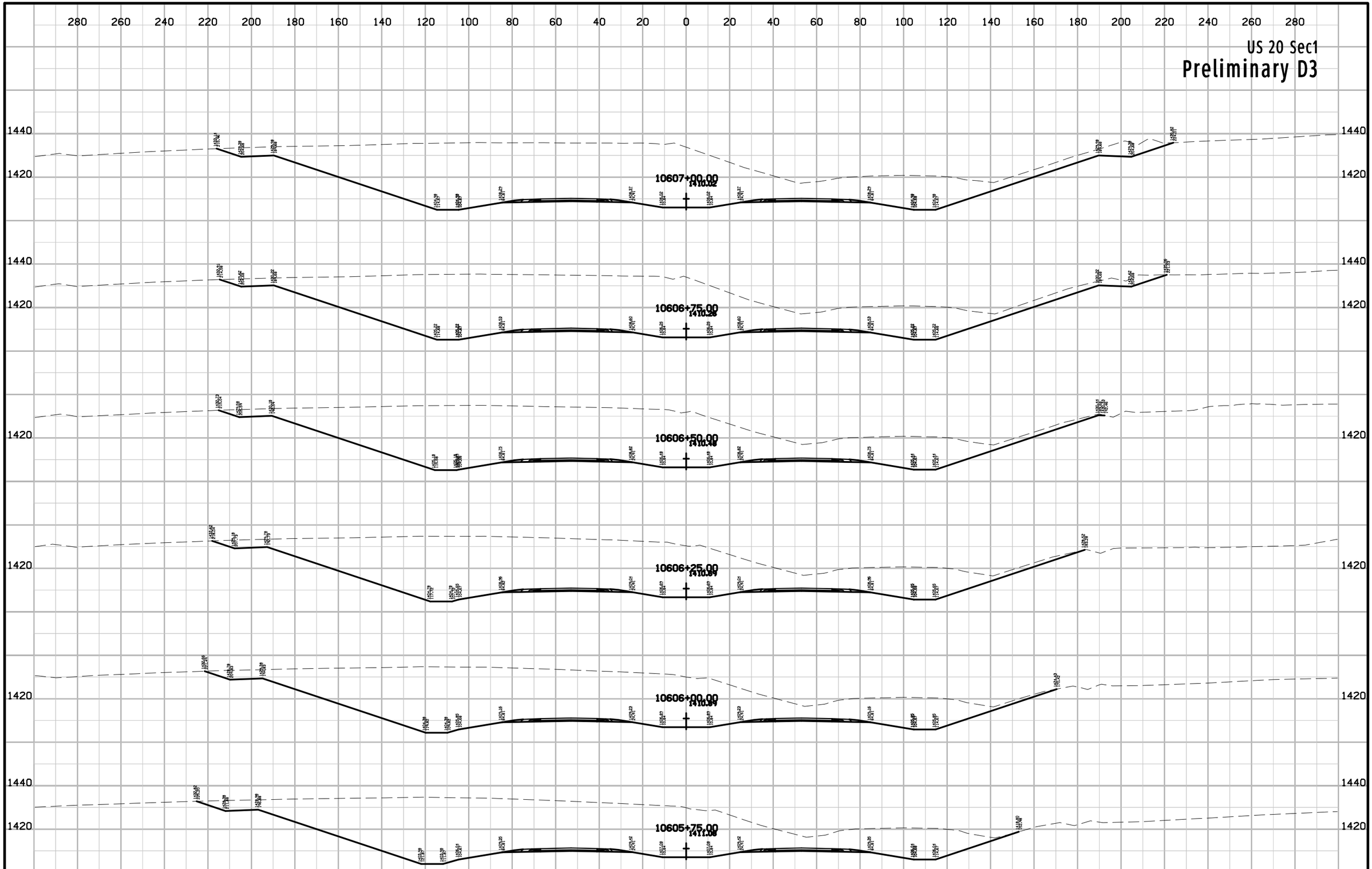


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.316	

2:23:13 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

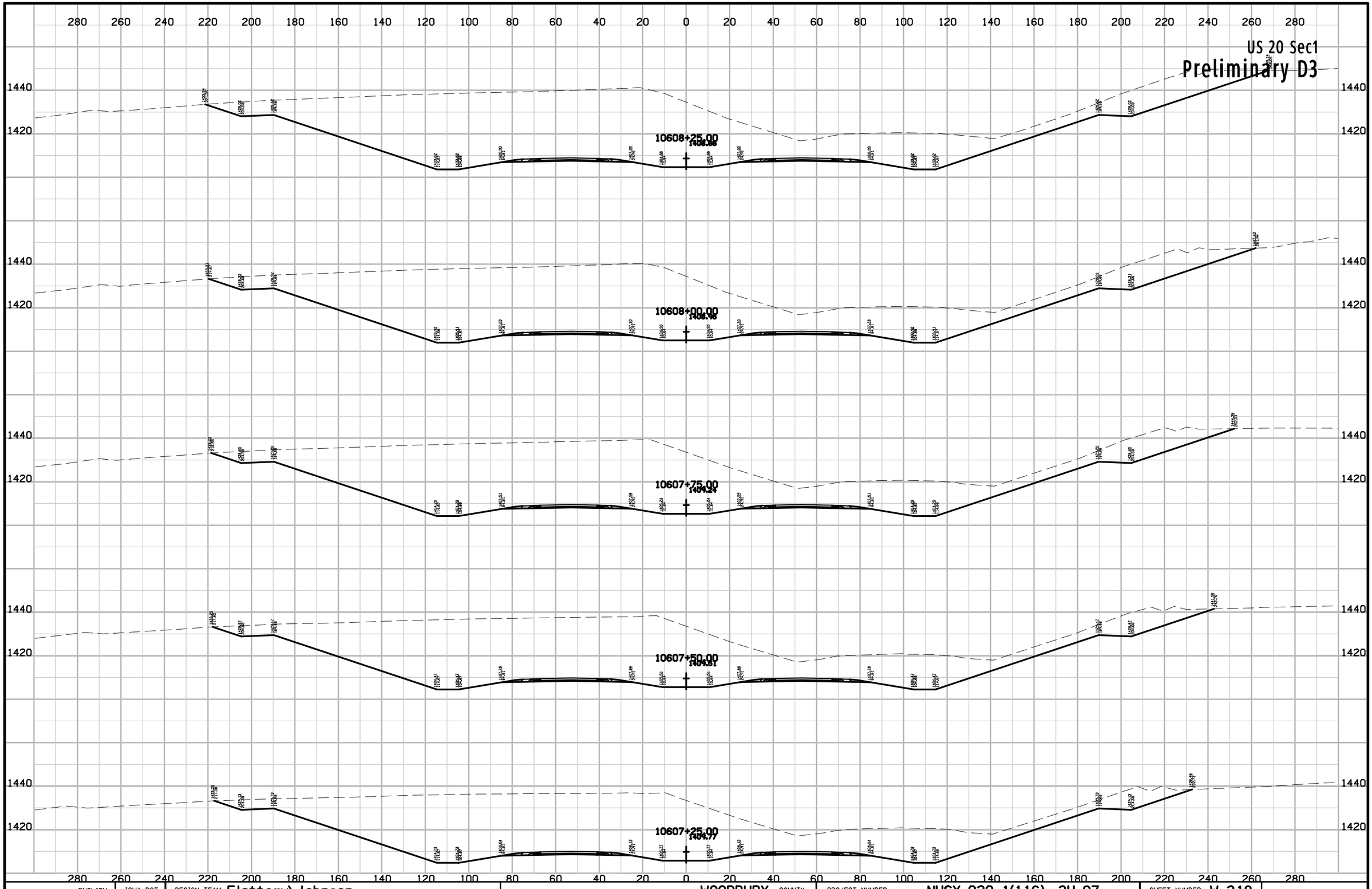


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.317

2:23:14 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

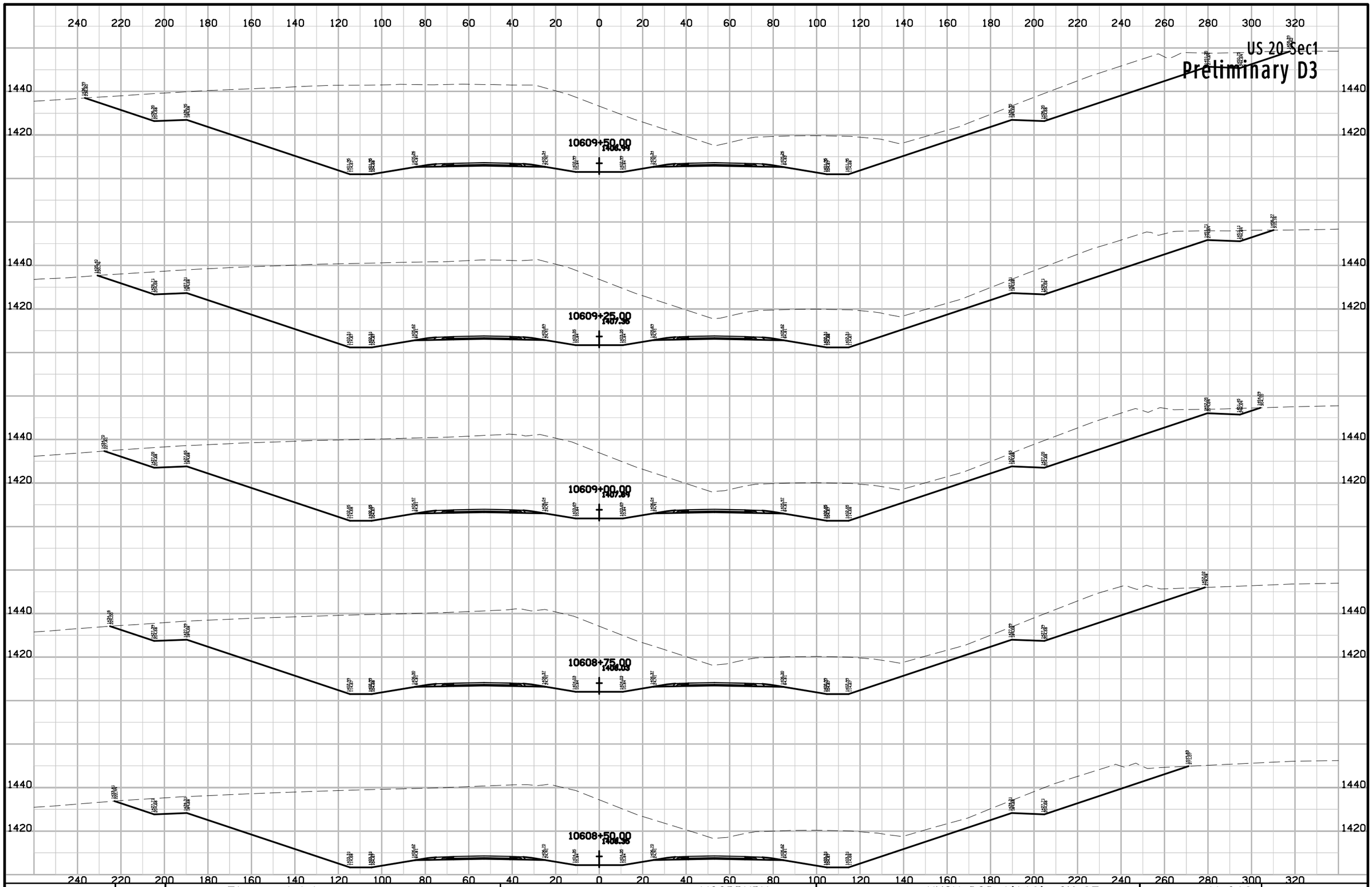


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.318

2:23:14 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

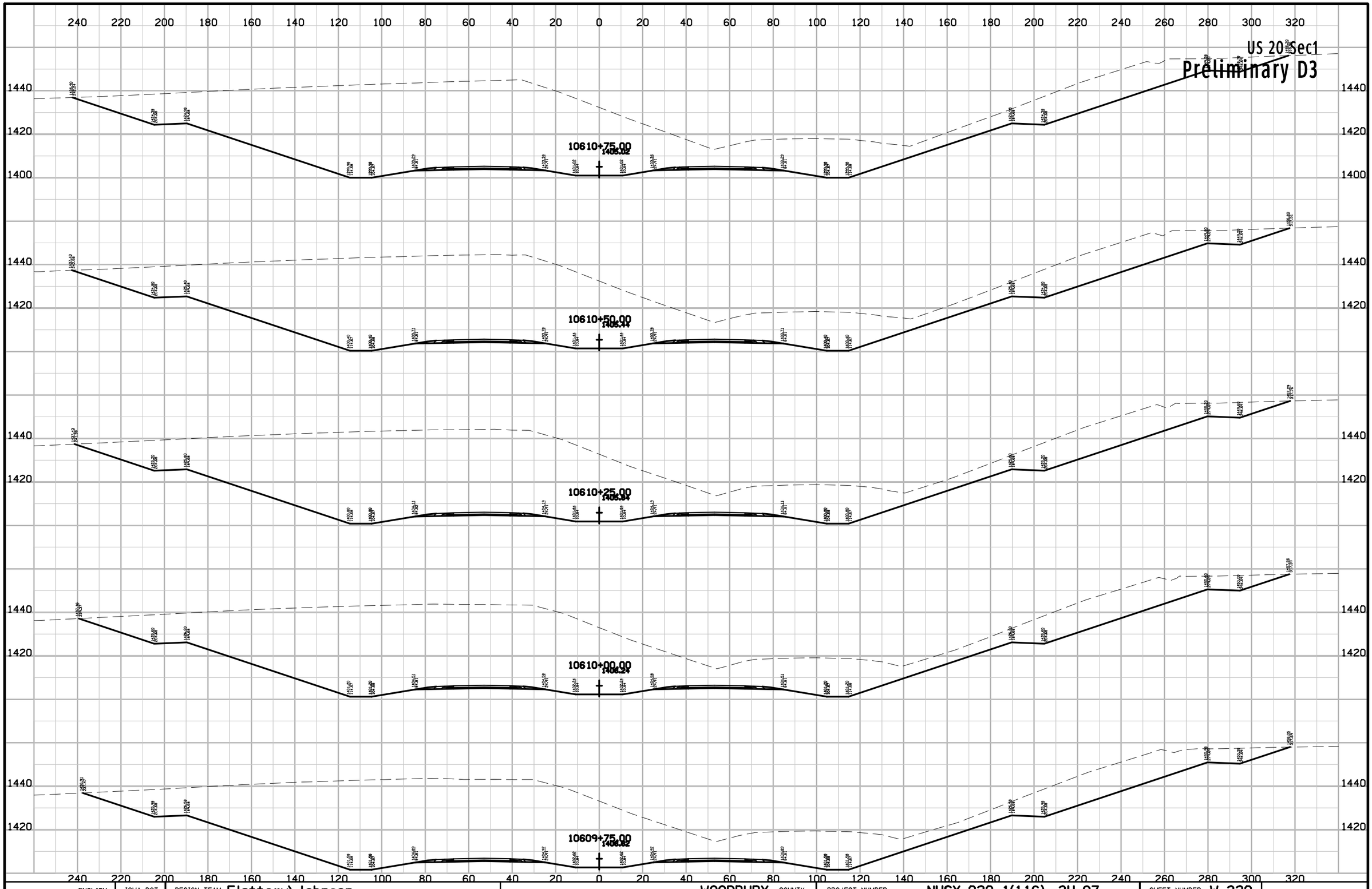


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.319

2:23:15 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

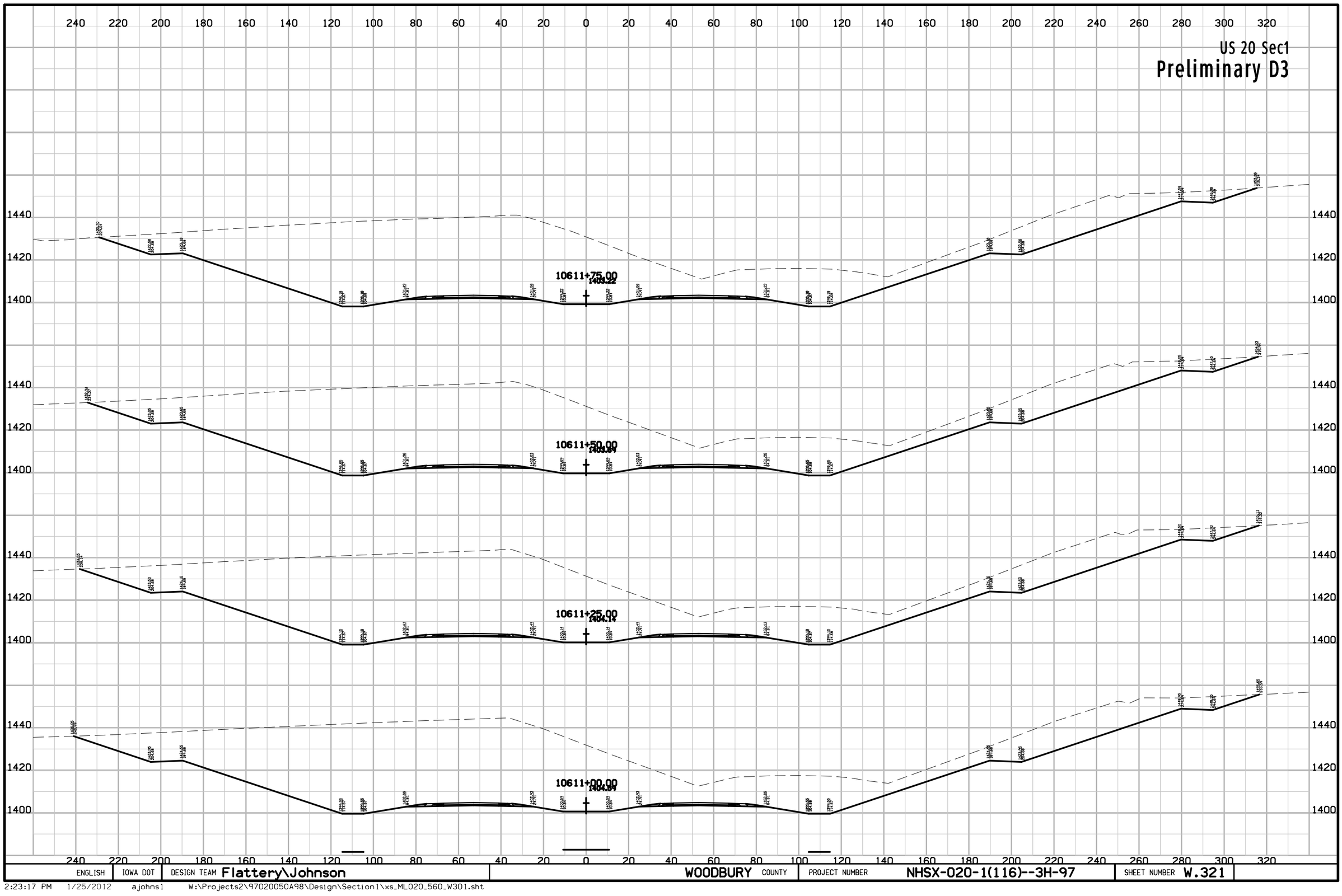


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.320

2:23:16 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

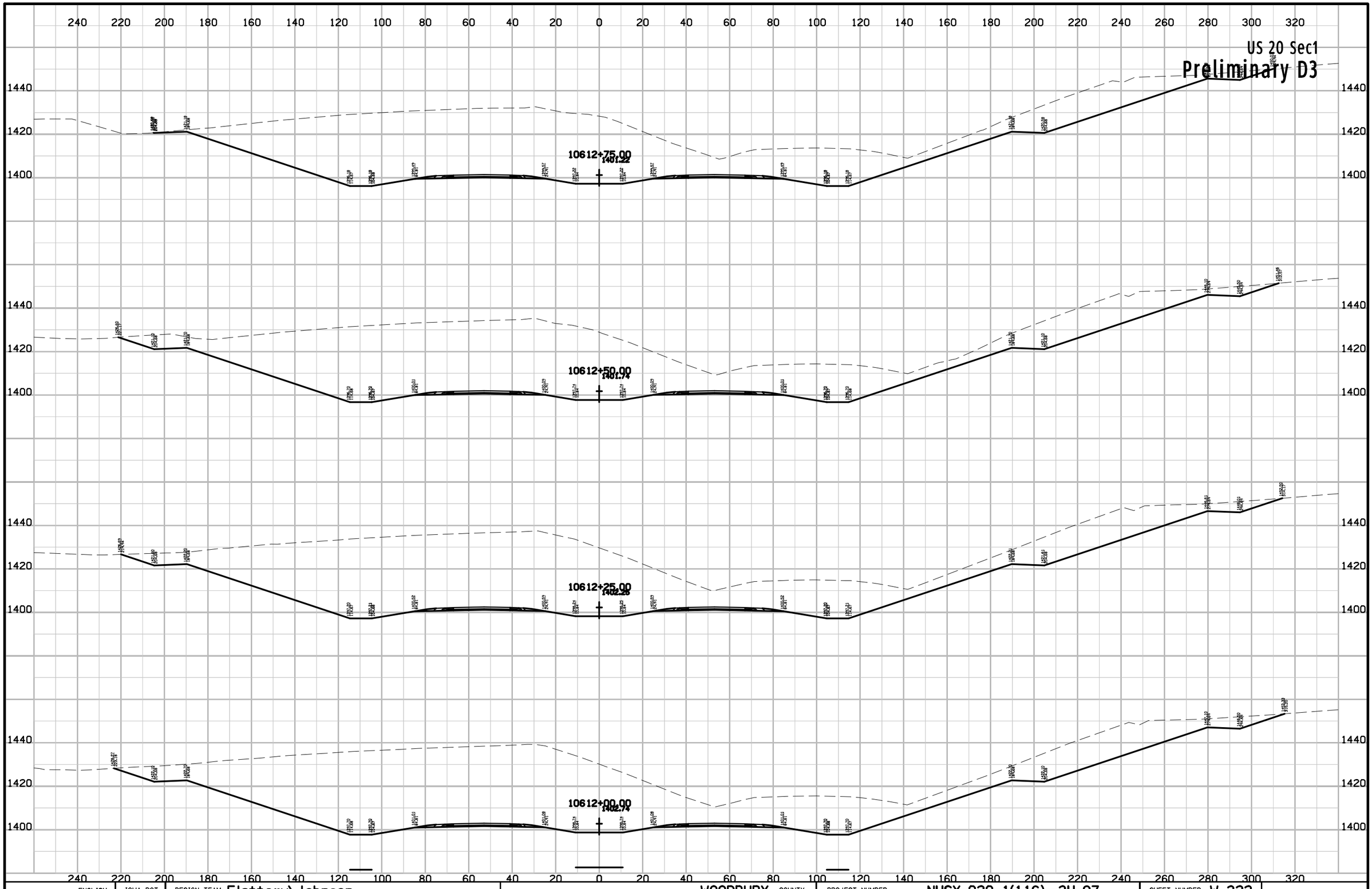


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.321

2:23:17 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

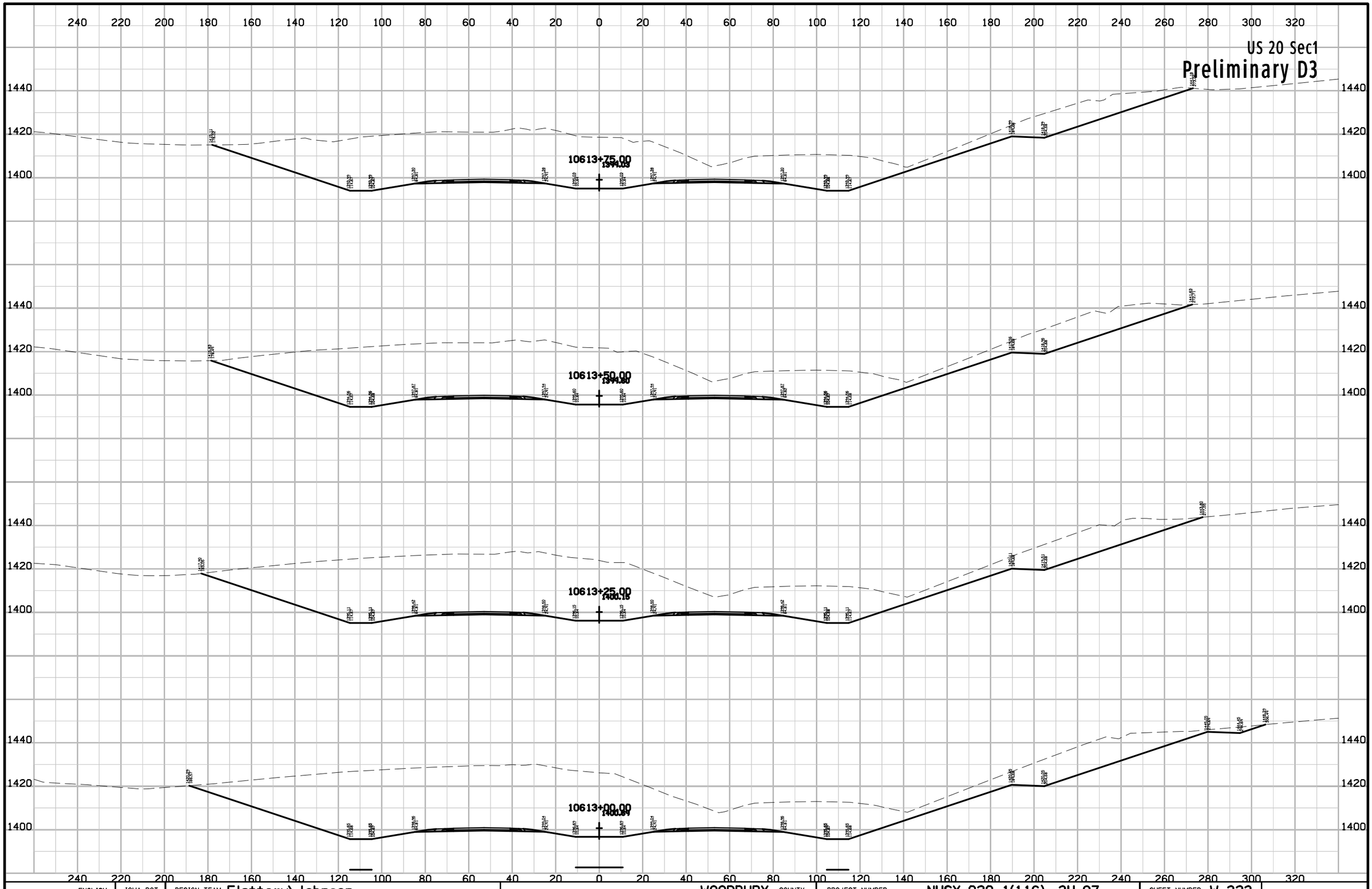


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.322	

2:23:17 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

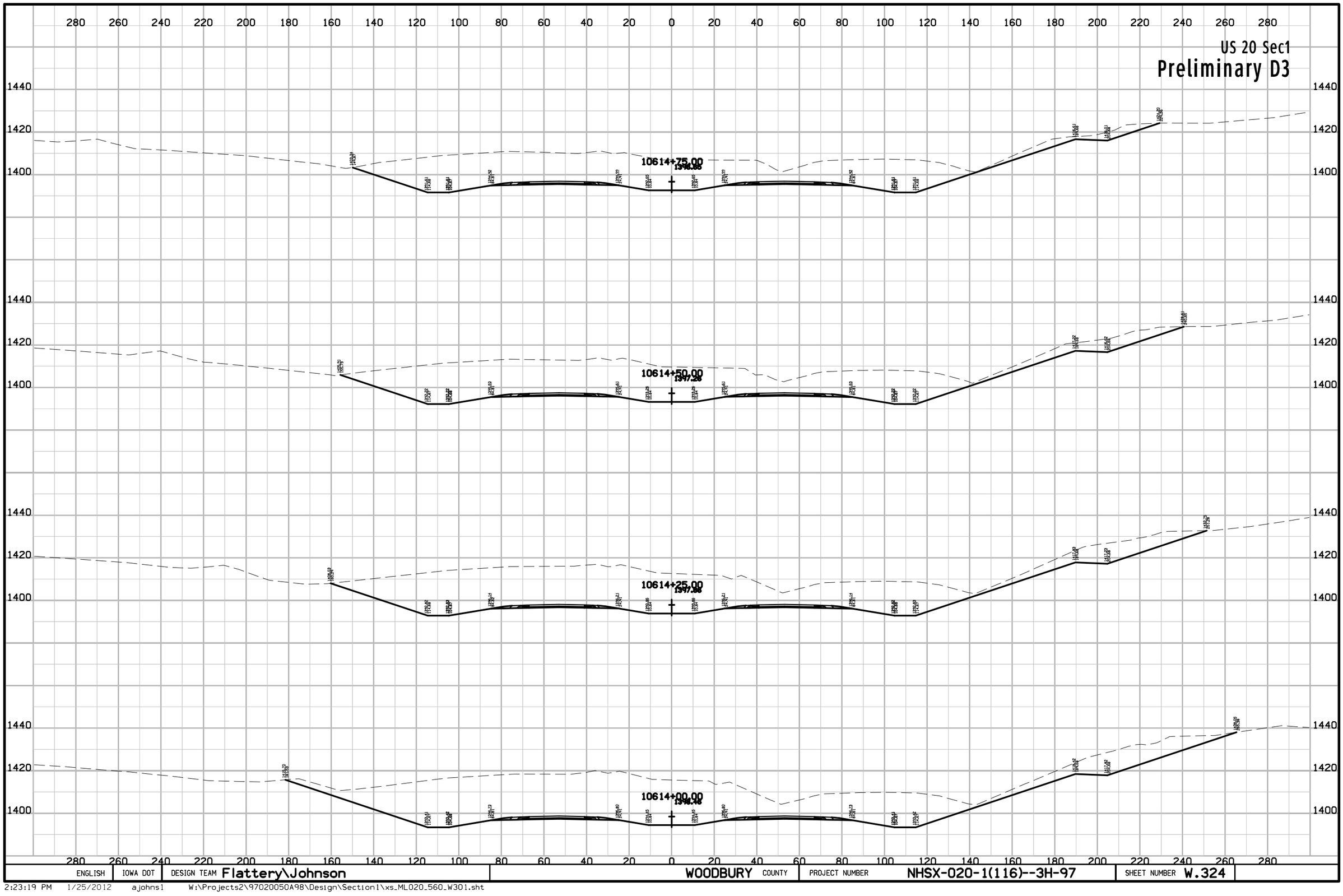


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.323

2:23:18 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

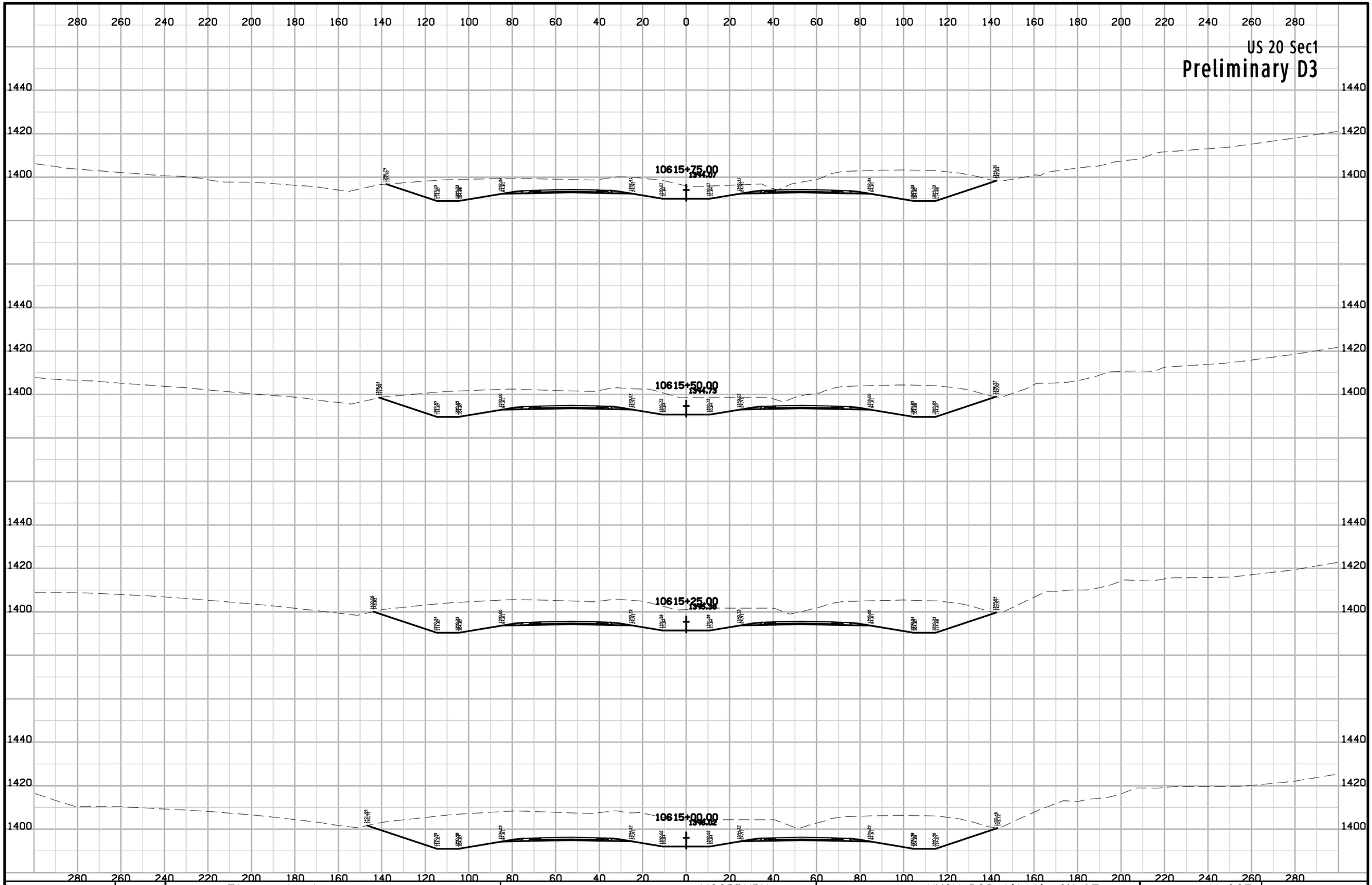


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.324

2:23:19 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

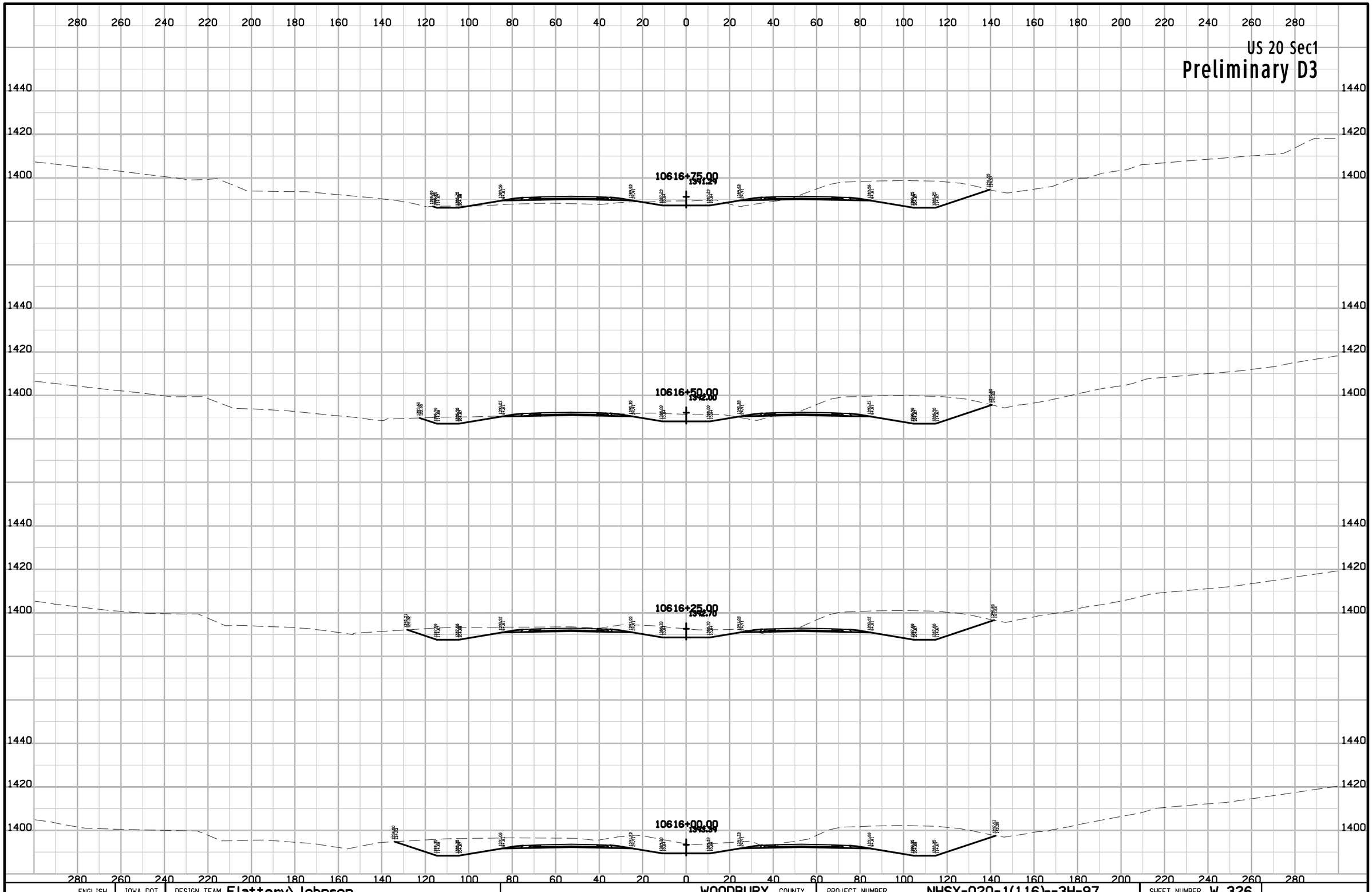


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.325

2:23:20 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

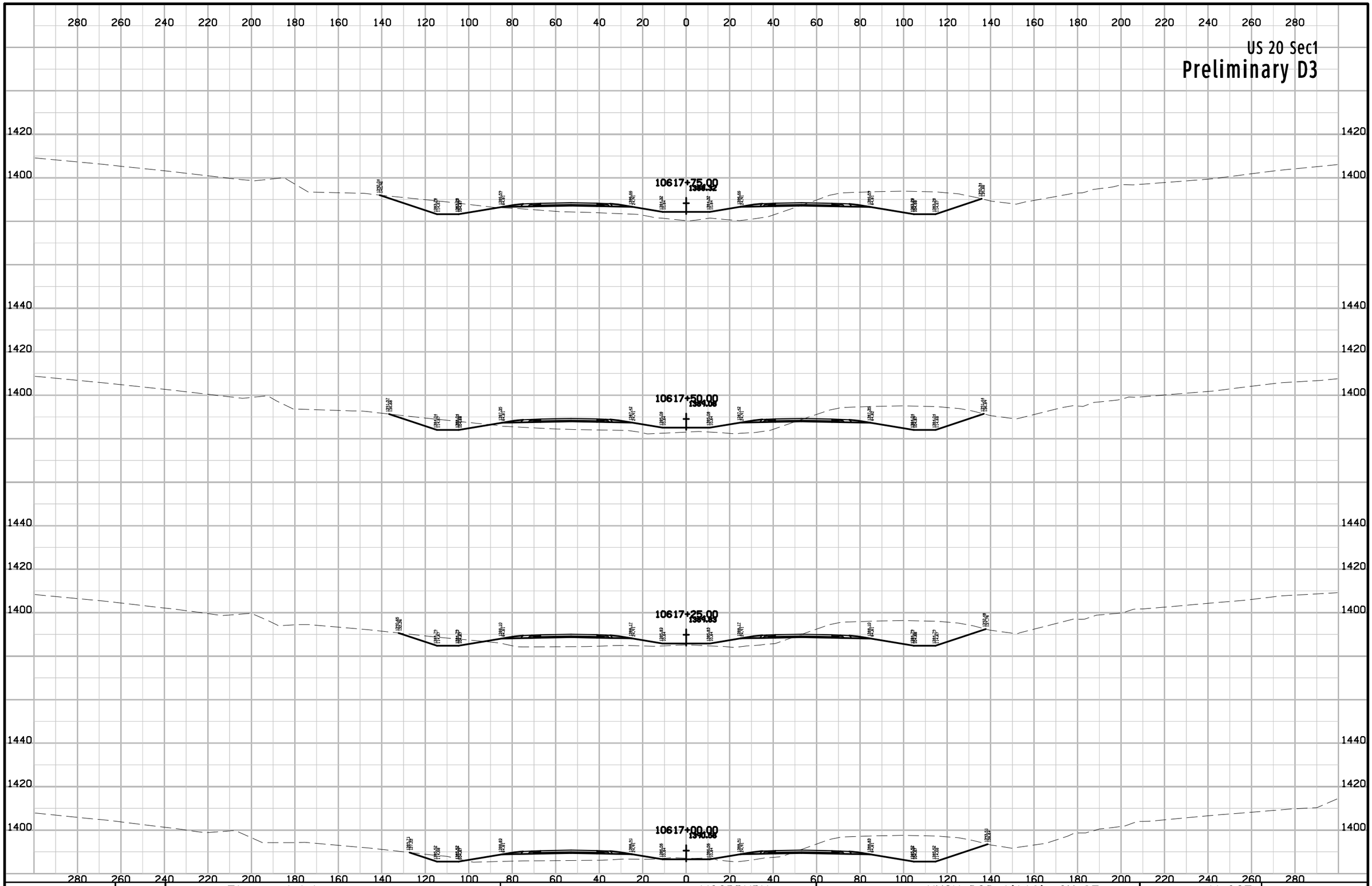


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.326

2:23:20 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

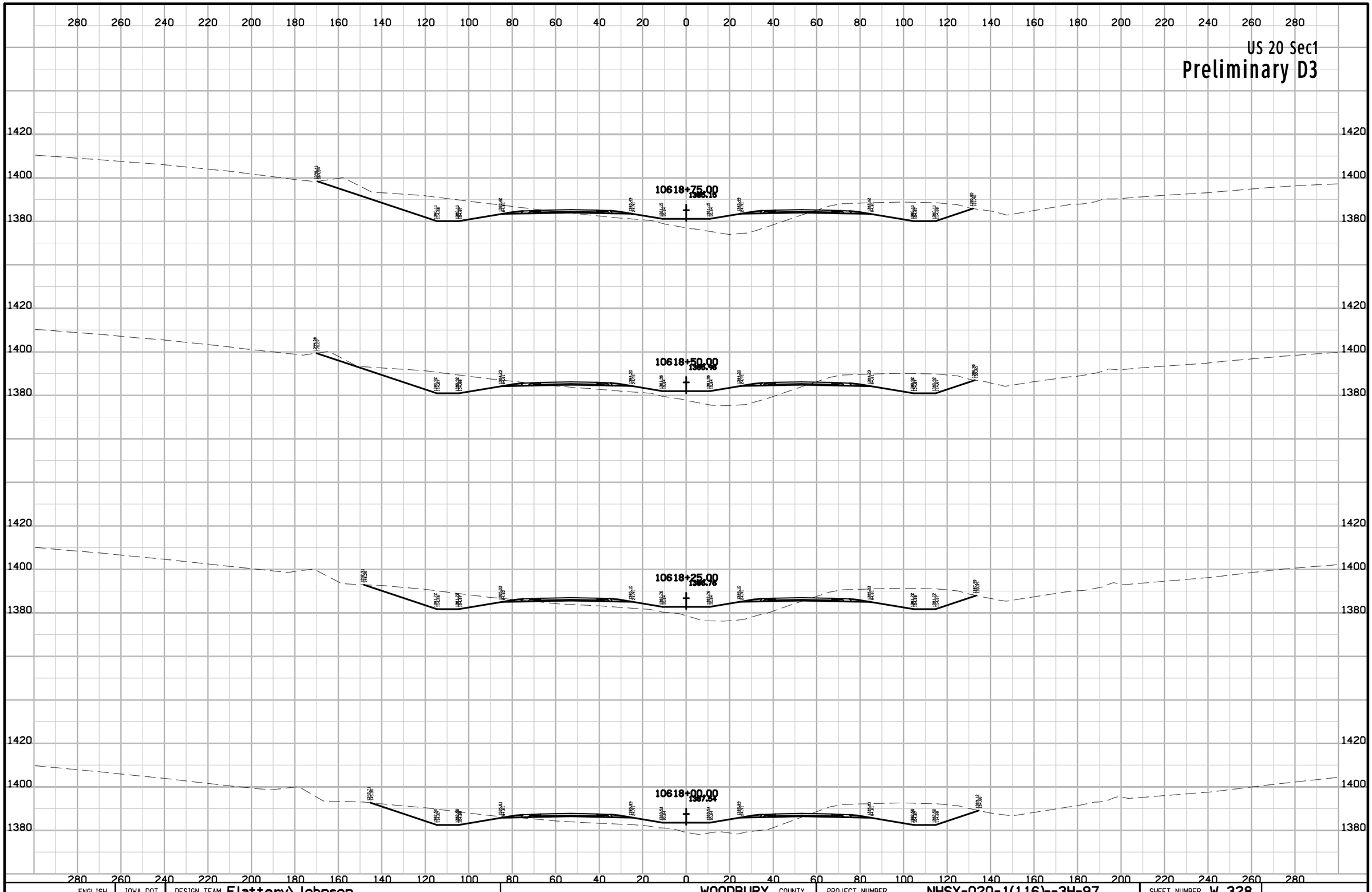


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.327

2:23:21 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.328

2:23:22 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

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

10620+00.00
1380.91

10619+75.00
1381.70

10619+50.00
1382.84

10619+25.00
1383.49

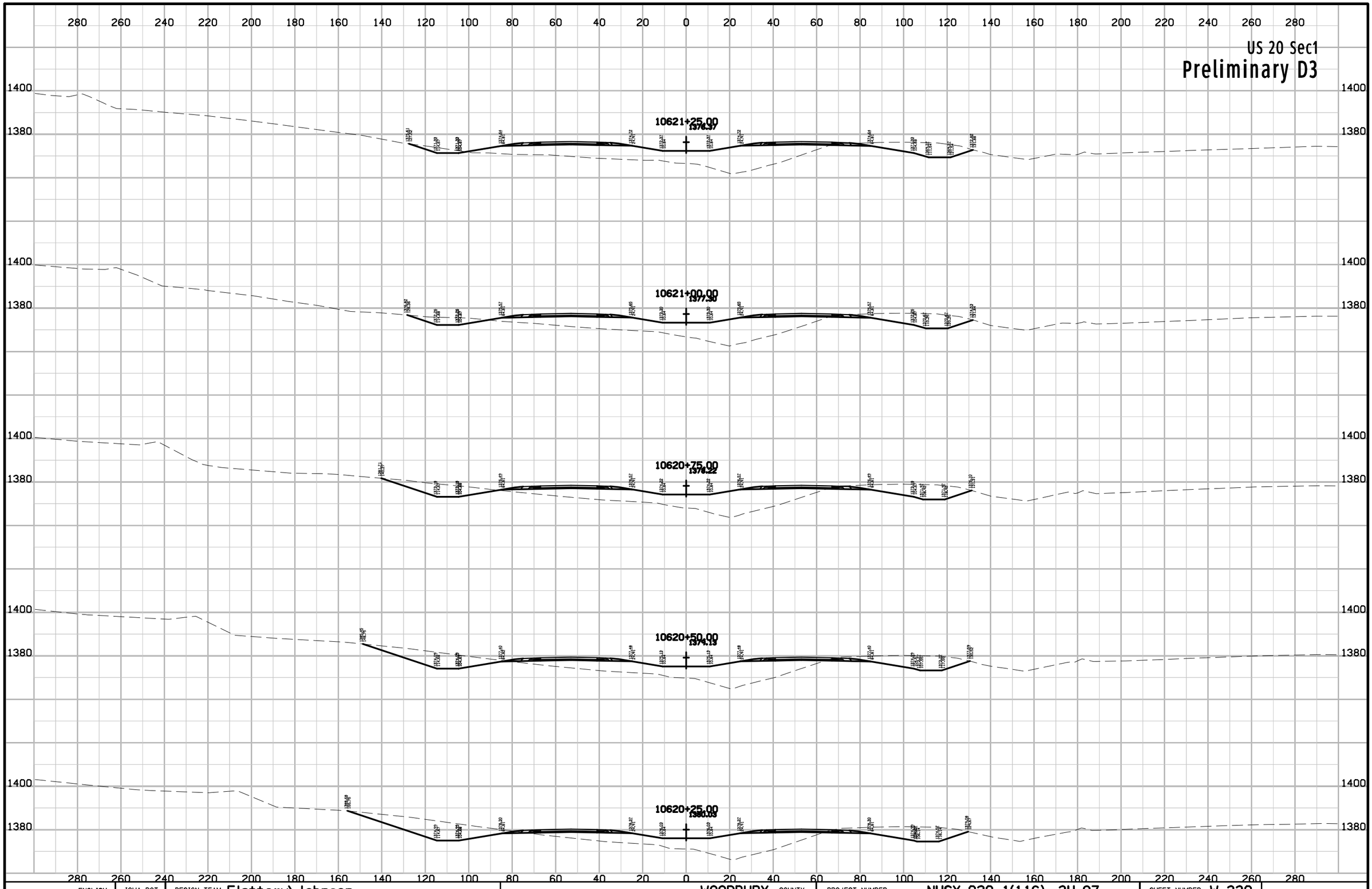
10619+00.00
1384.32

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.329

2:23:22 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

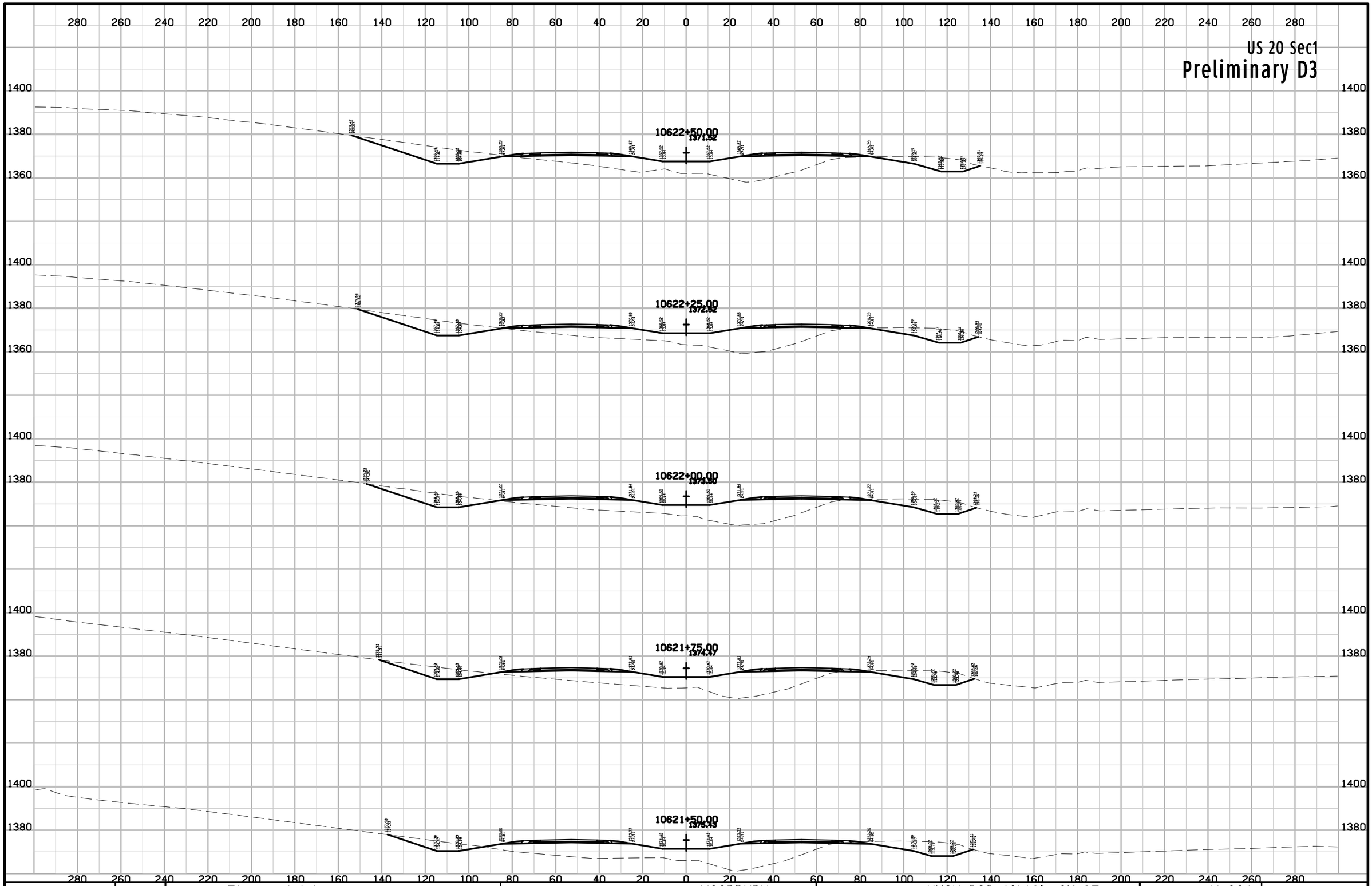


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.330

2:23:23 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

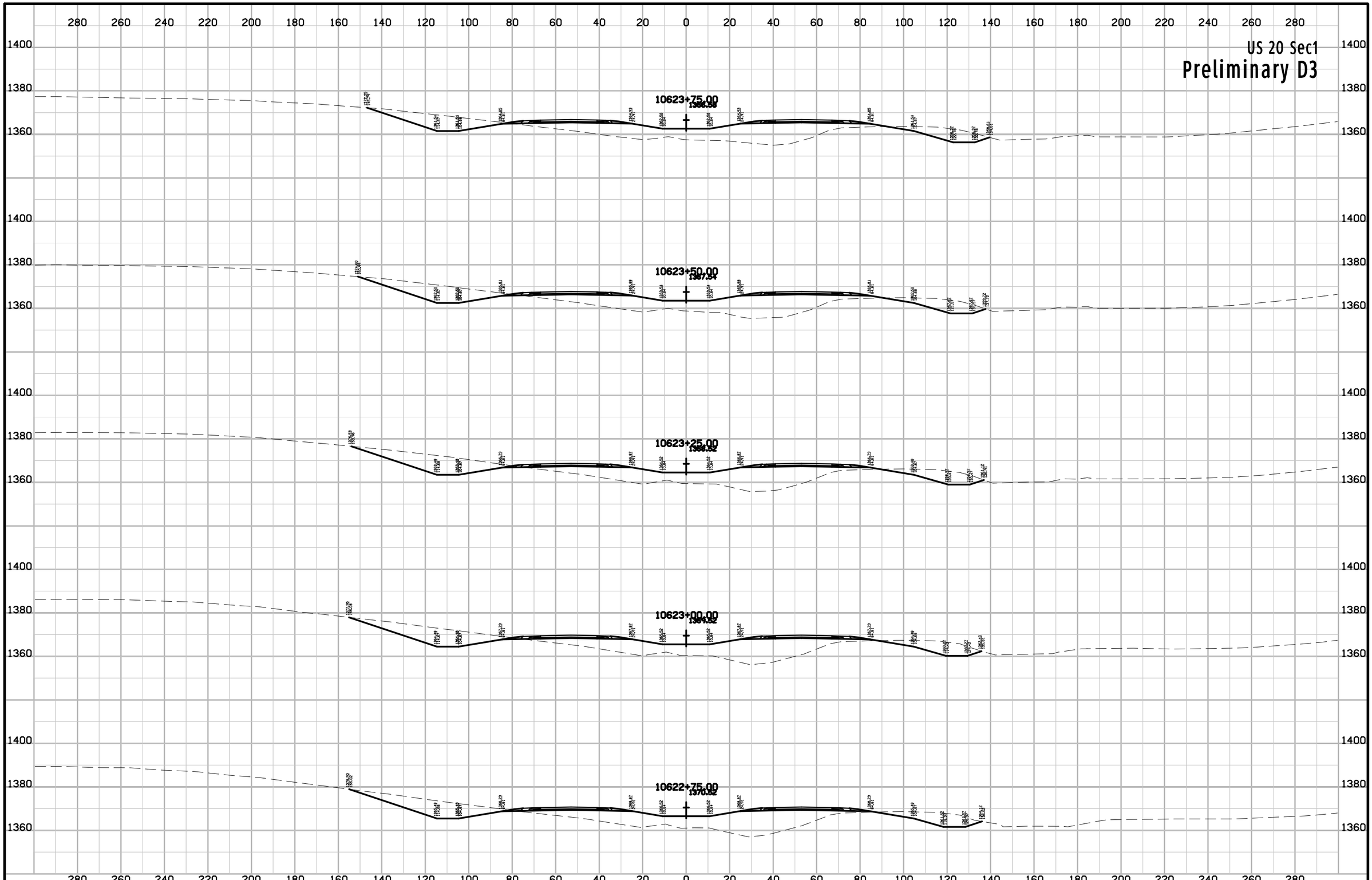


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.331

2:23:24 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

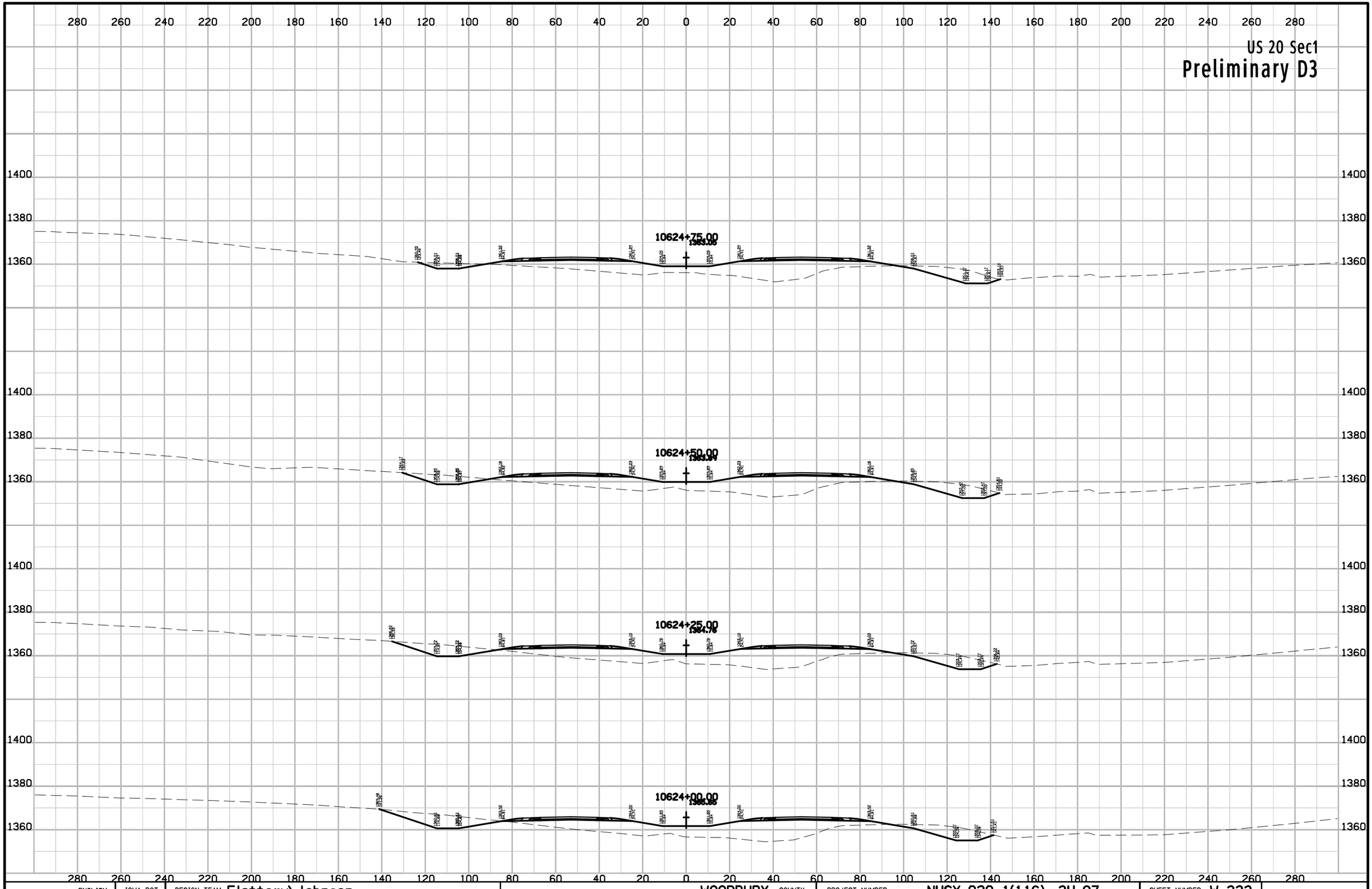


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.332

2:23:24 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

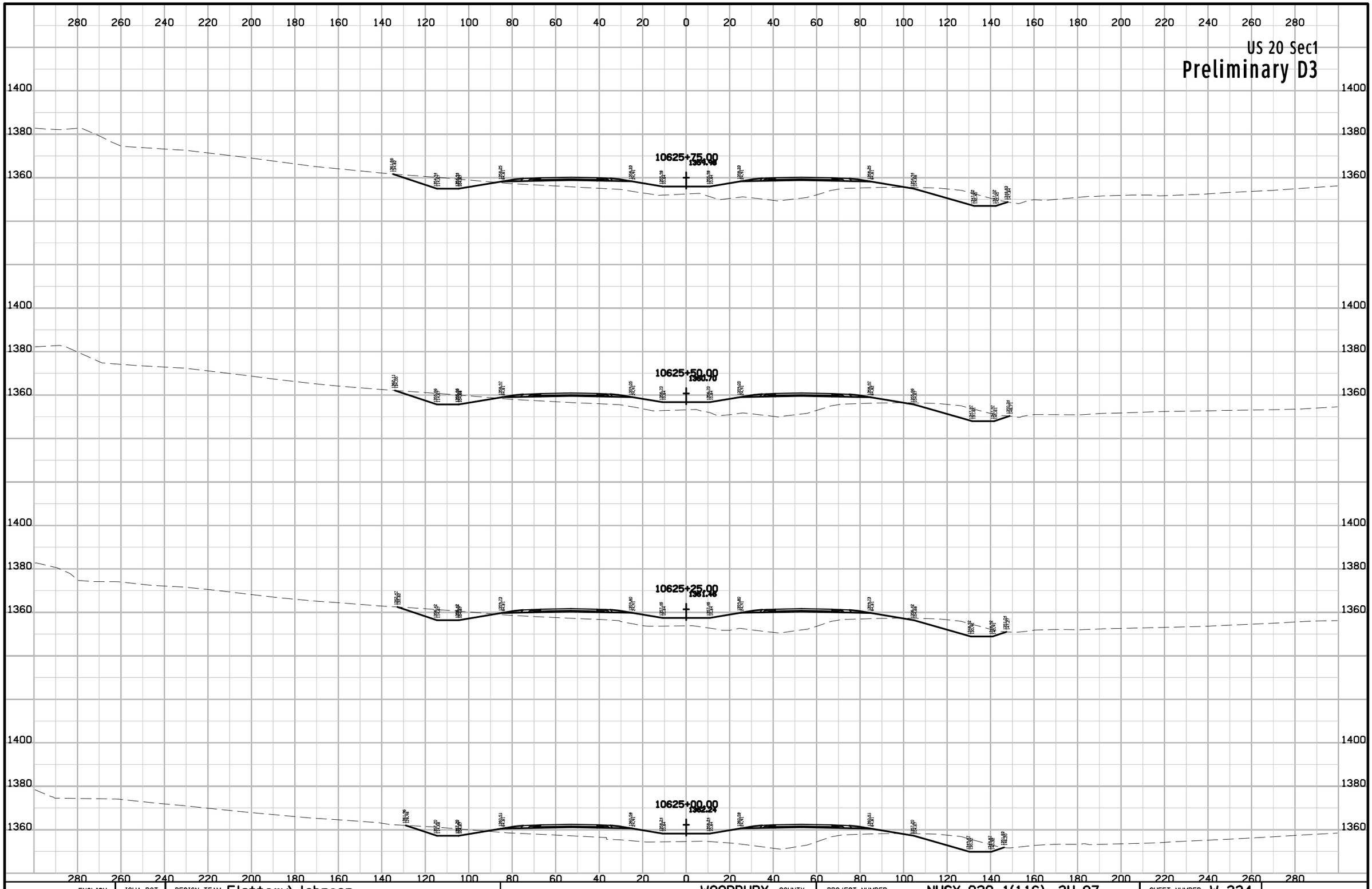


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.333

2:23:25 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

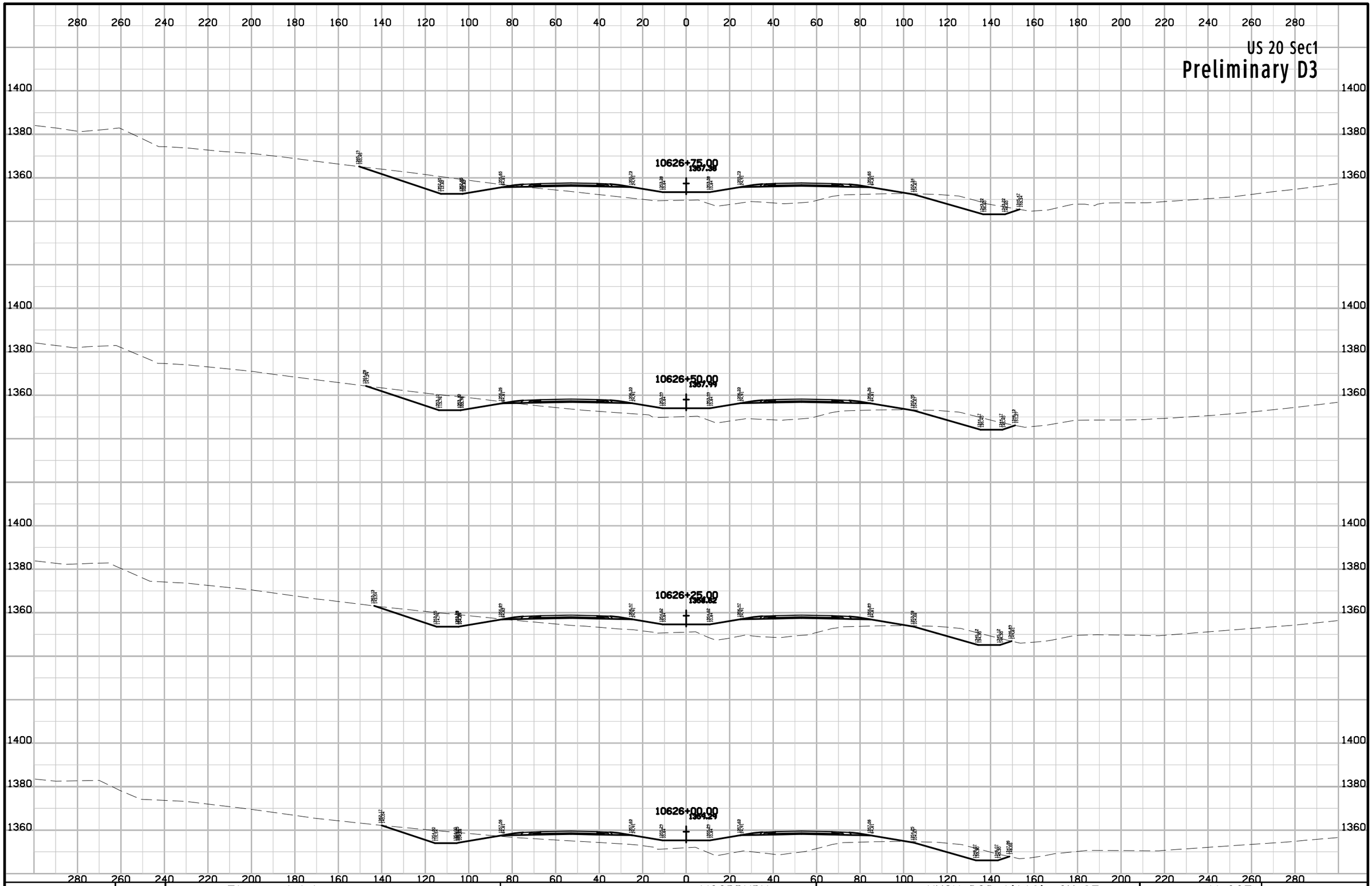


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.334

2:23:26 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

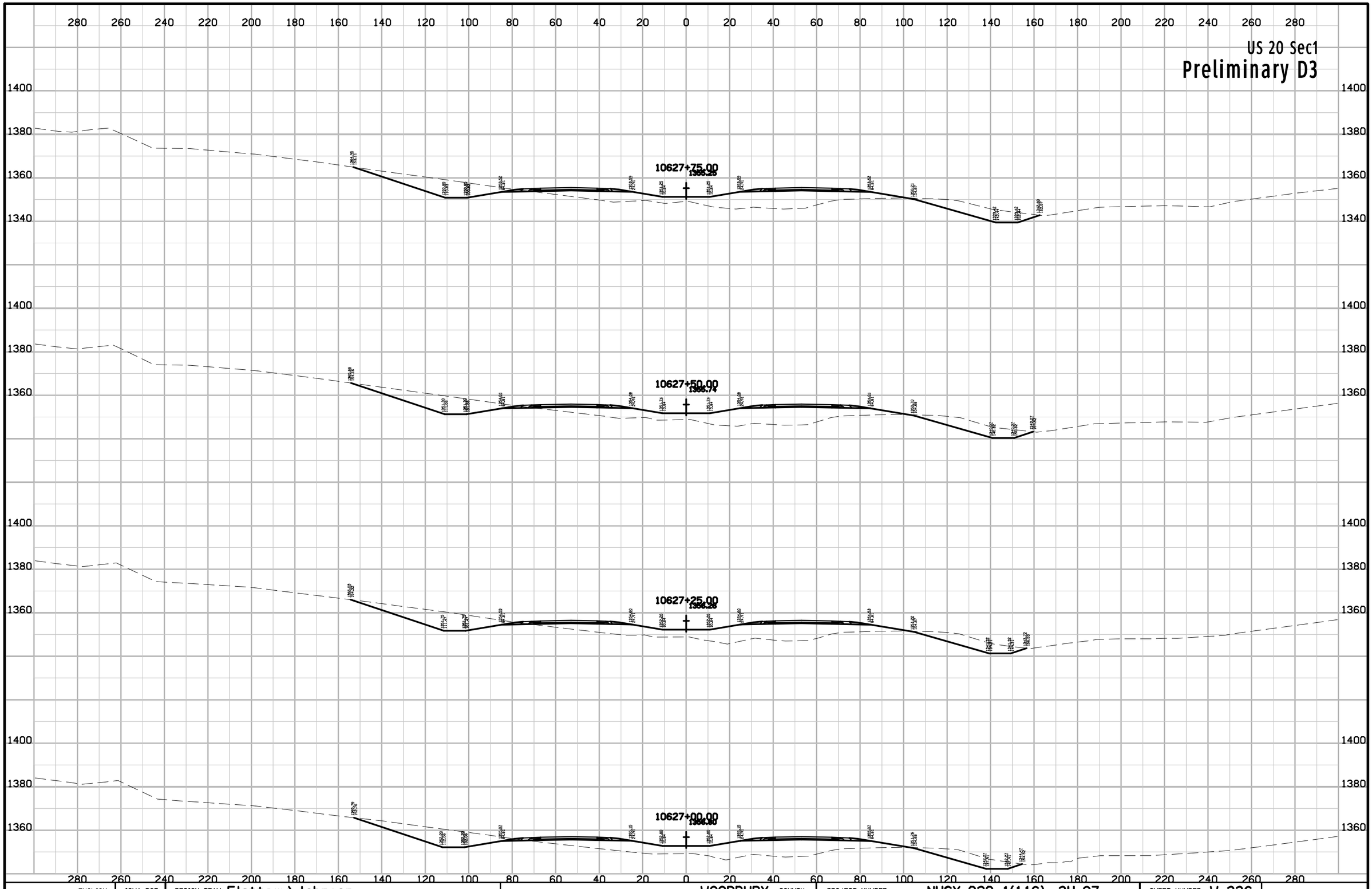


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.335

2:23:27 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

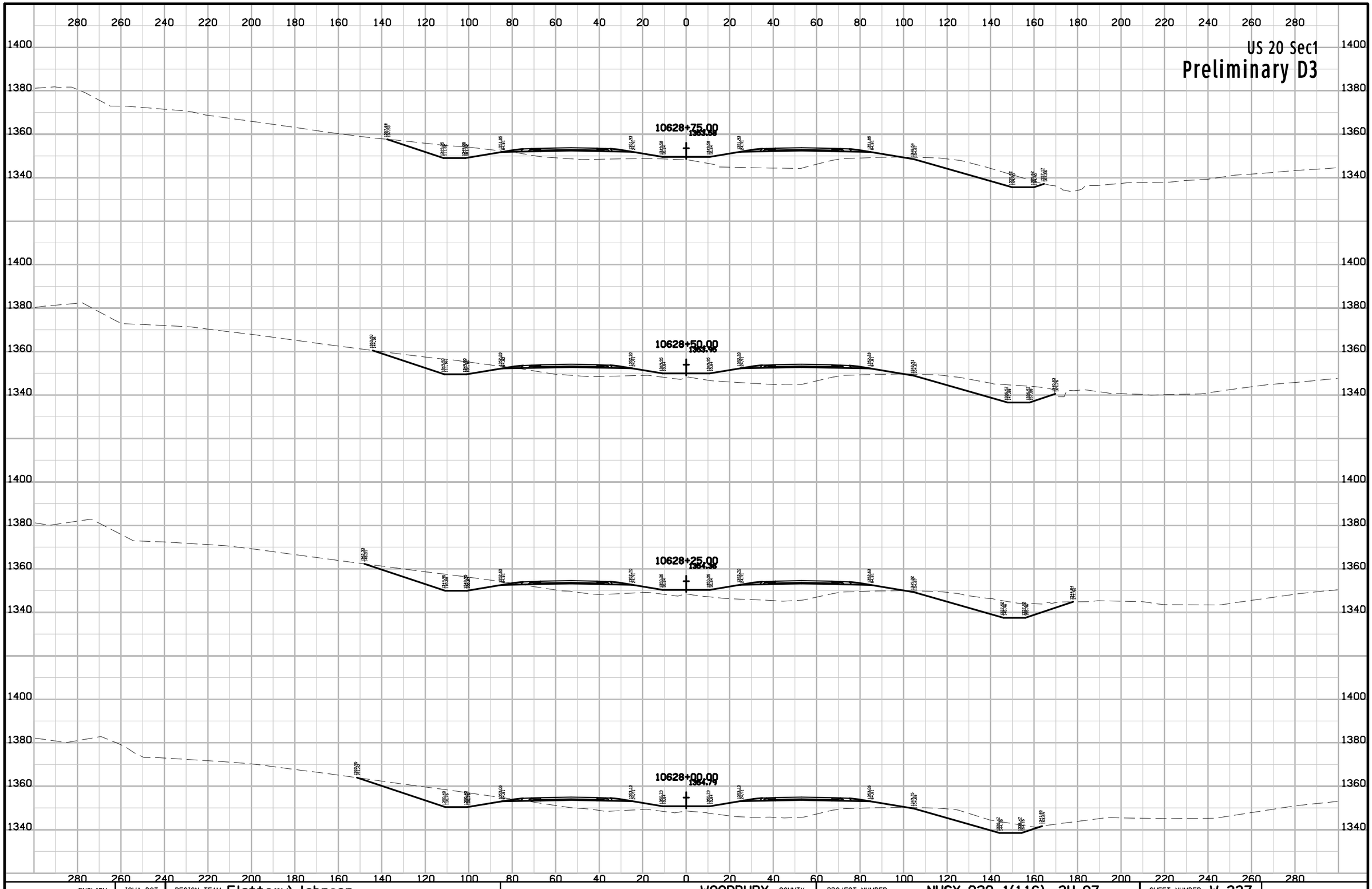


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.336

2:23:27 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

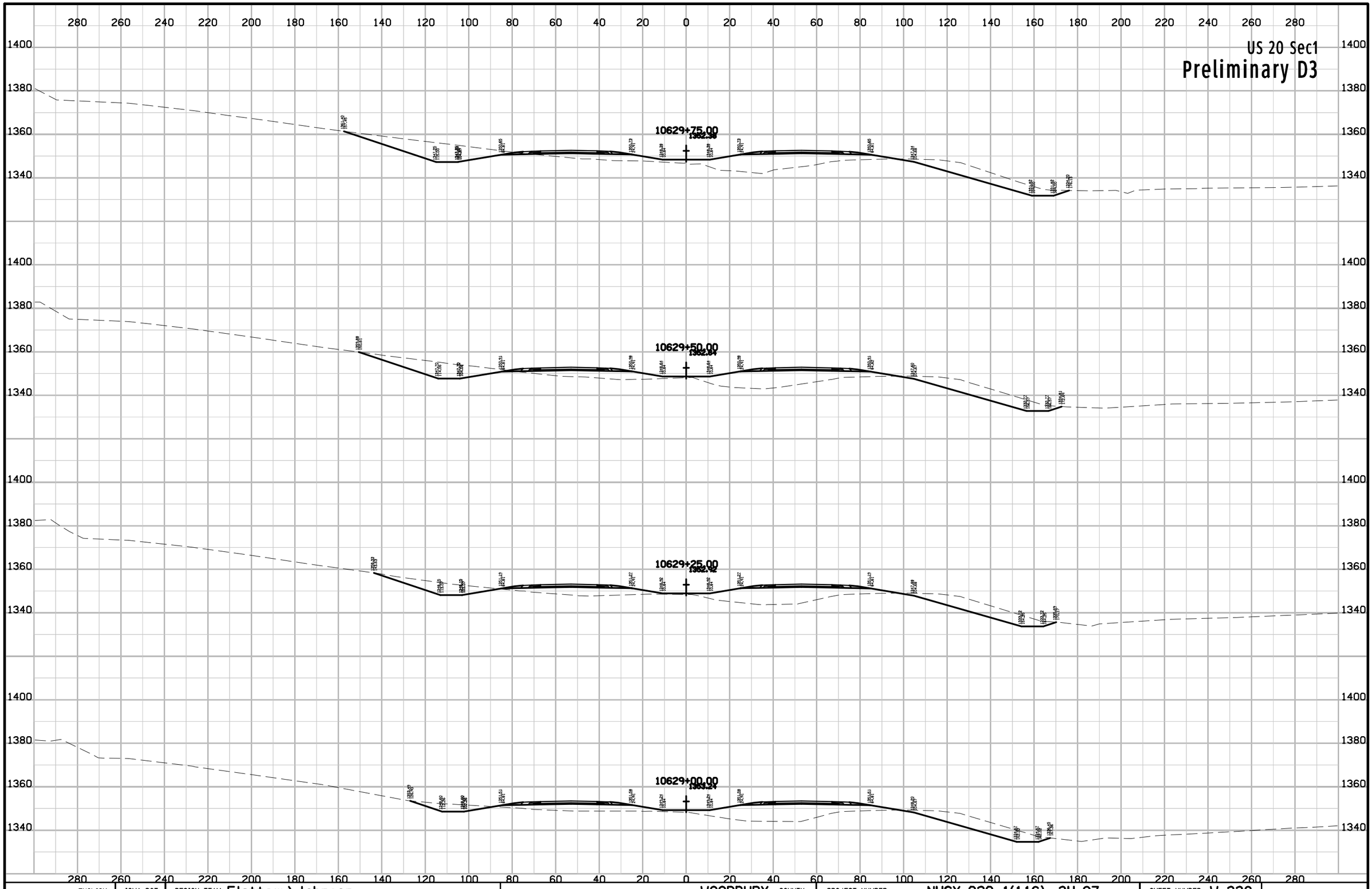


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.337

2:23:28 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

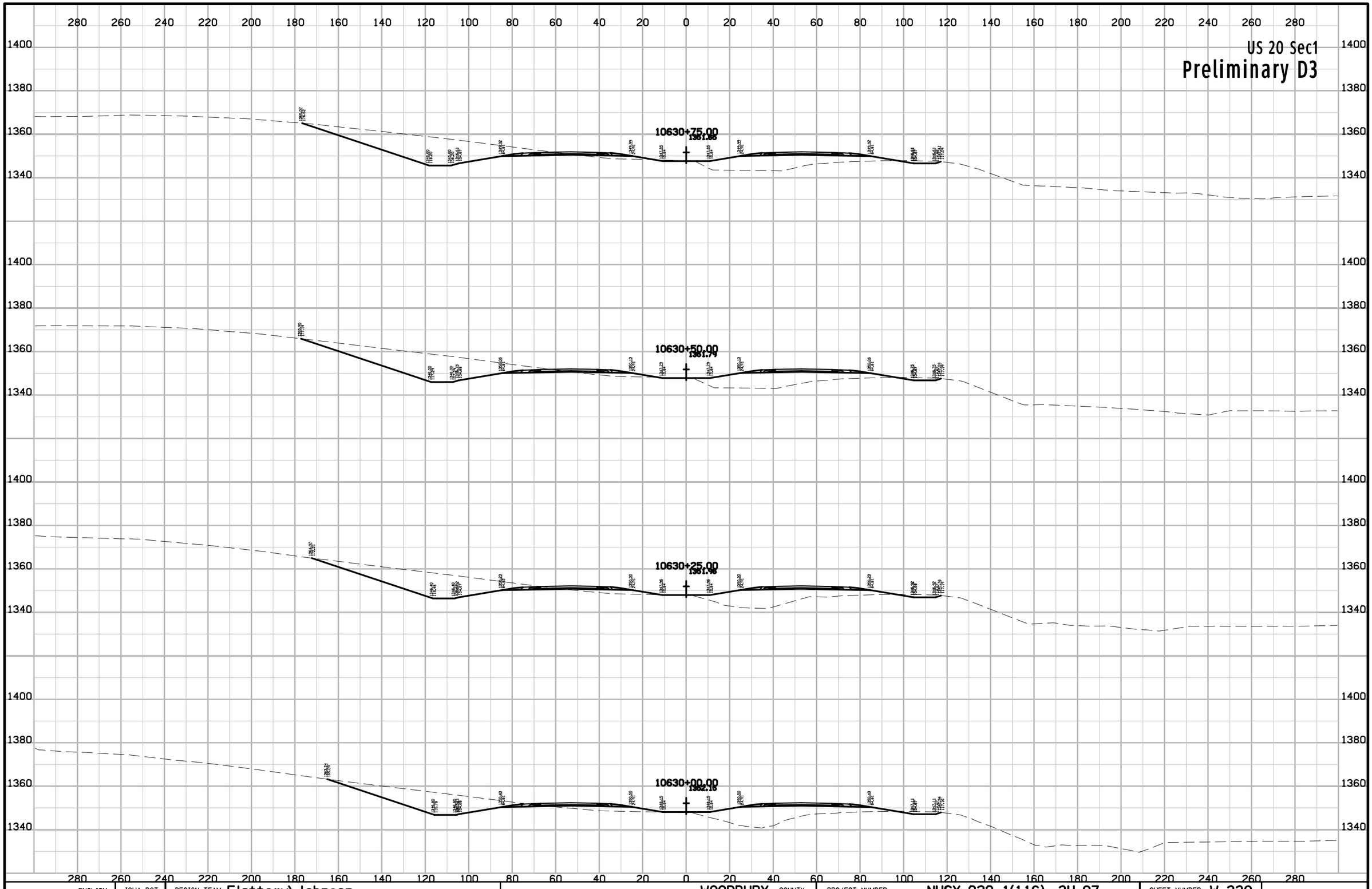


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.338

2:23:29 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

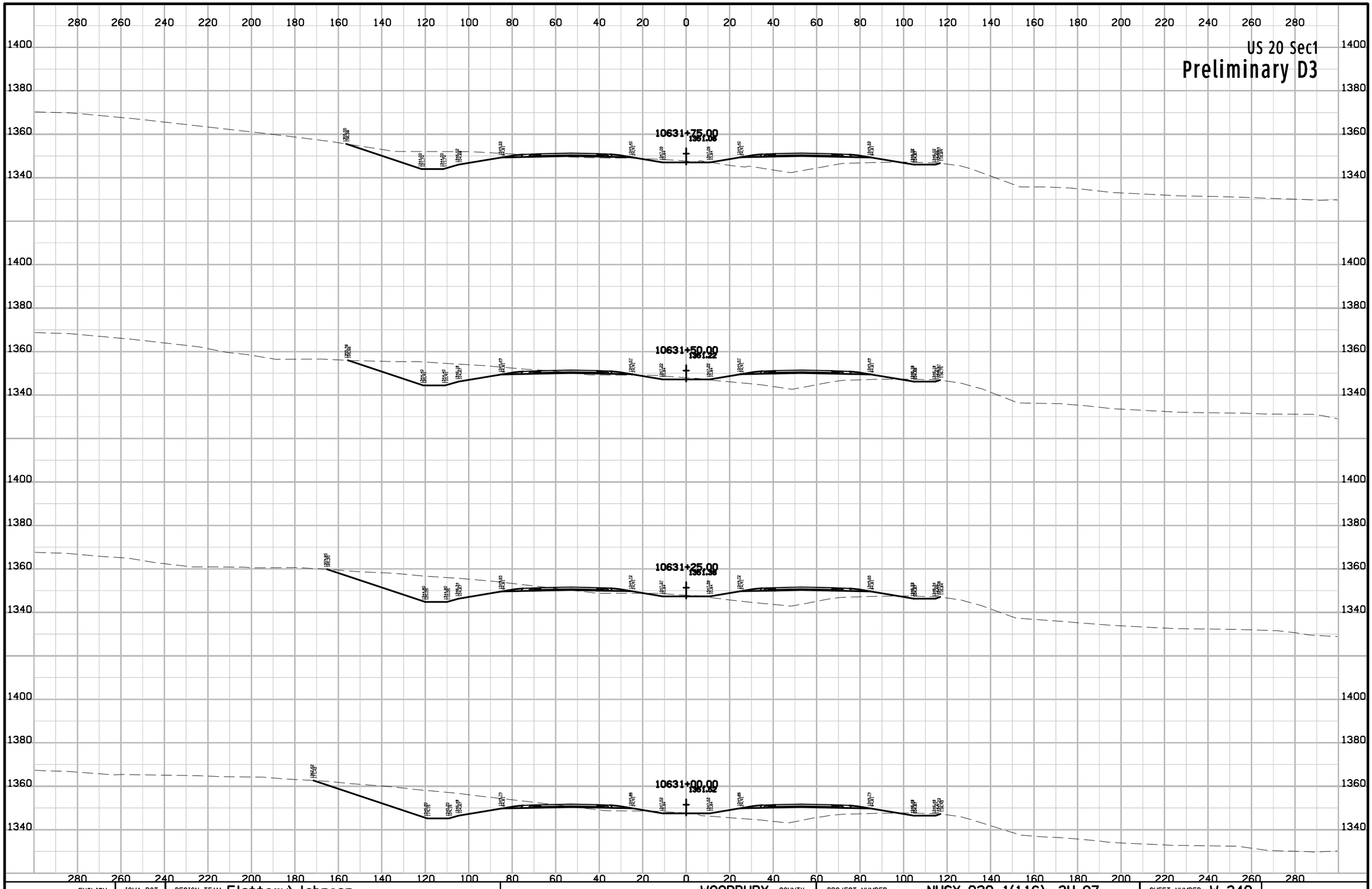


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.339

2:23:29 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

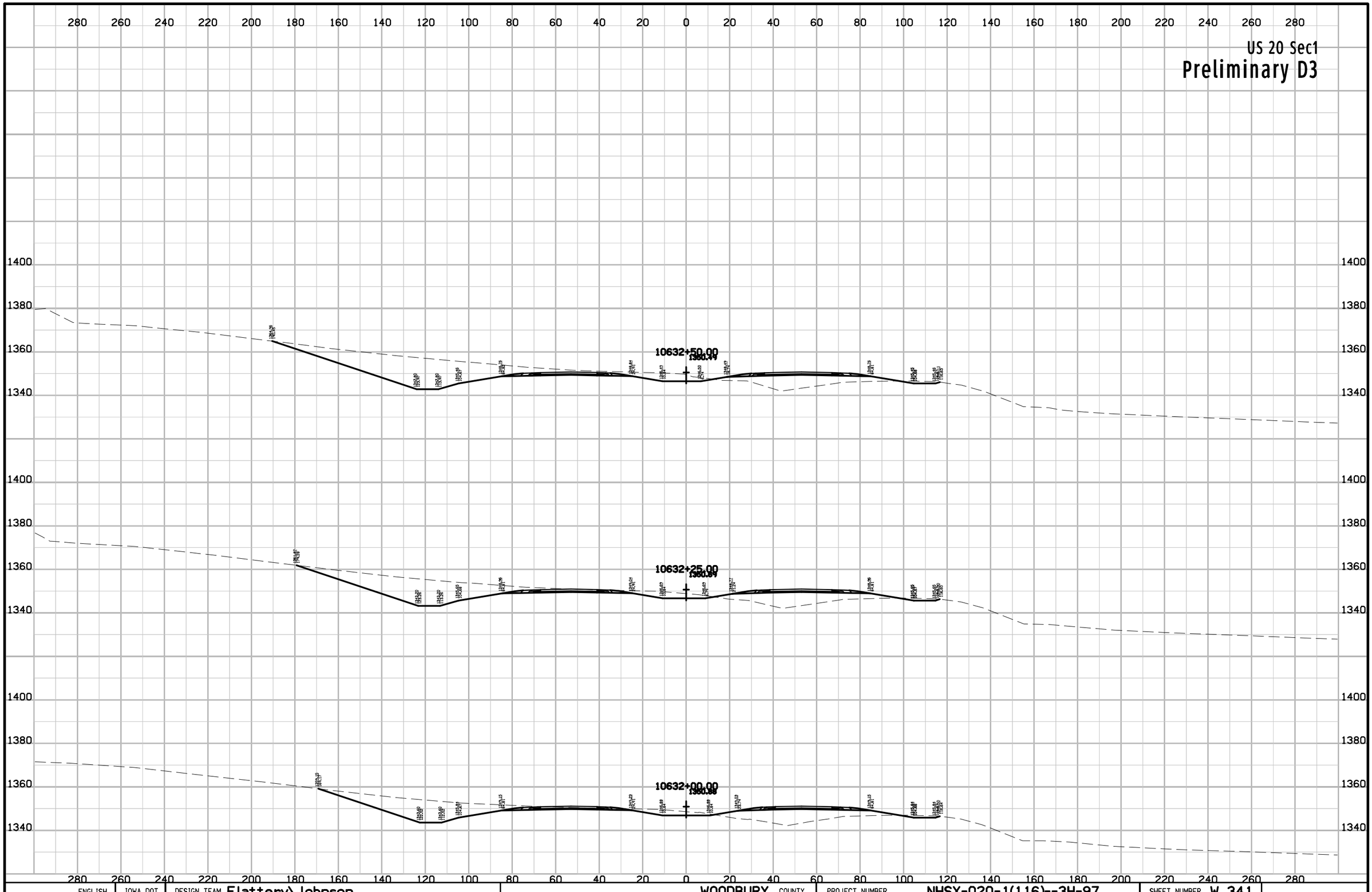


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.340

2:23:30 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

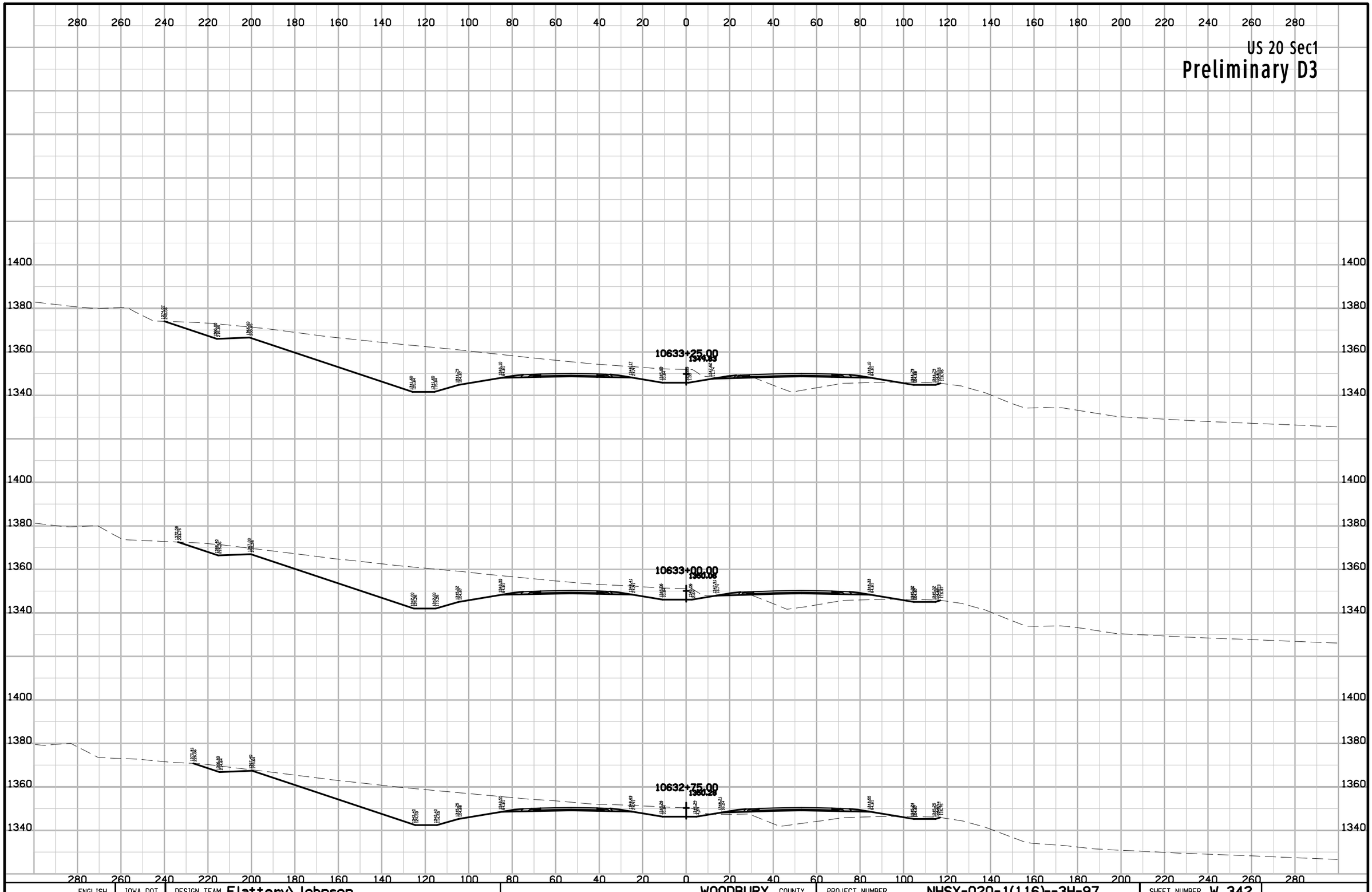


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.341

2:23:31 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

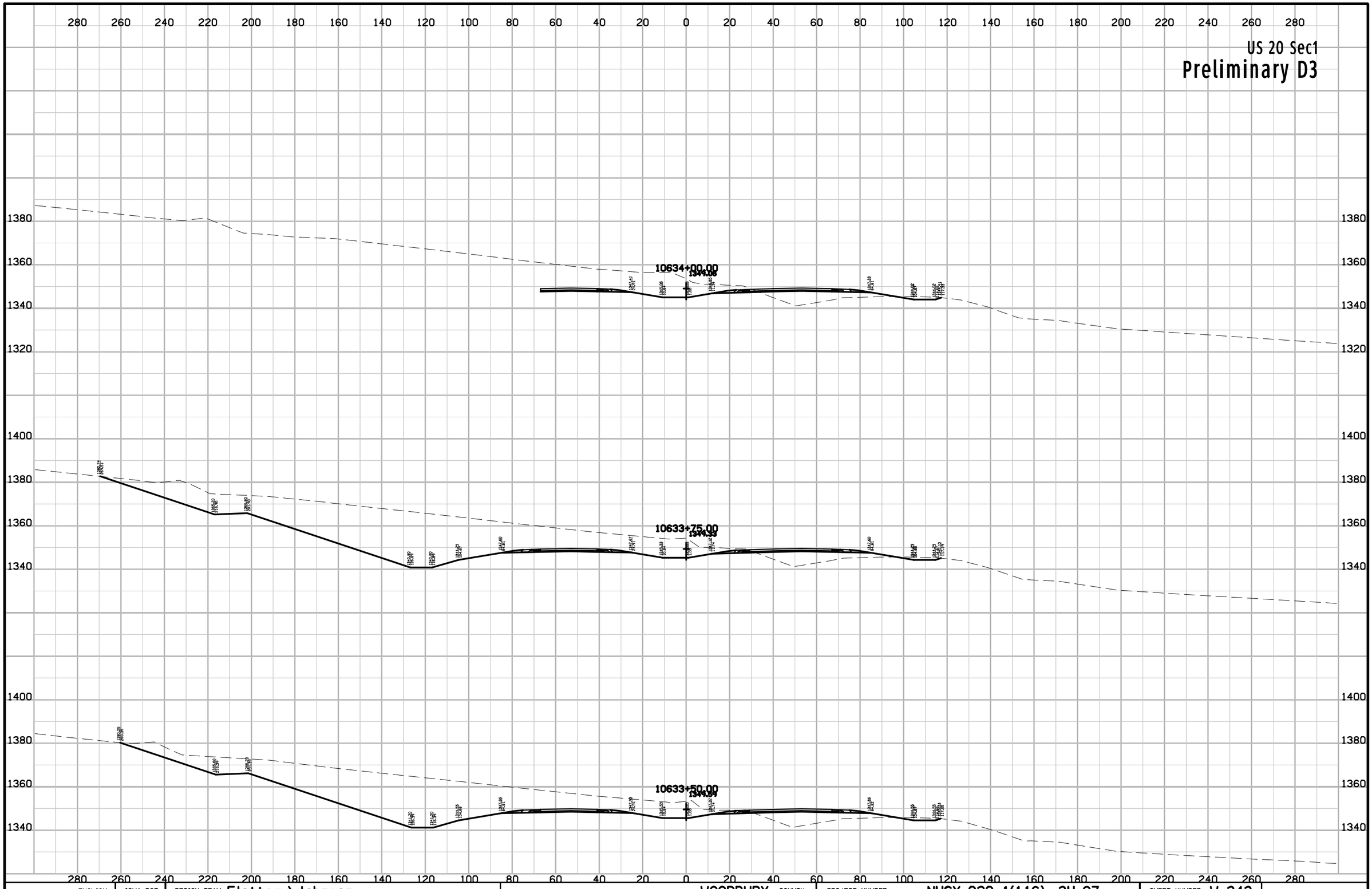


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.342

2:23:32 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.343

2:23:32 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

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

10634+75.00
1340.14

10634+50.00
1340.39

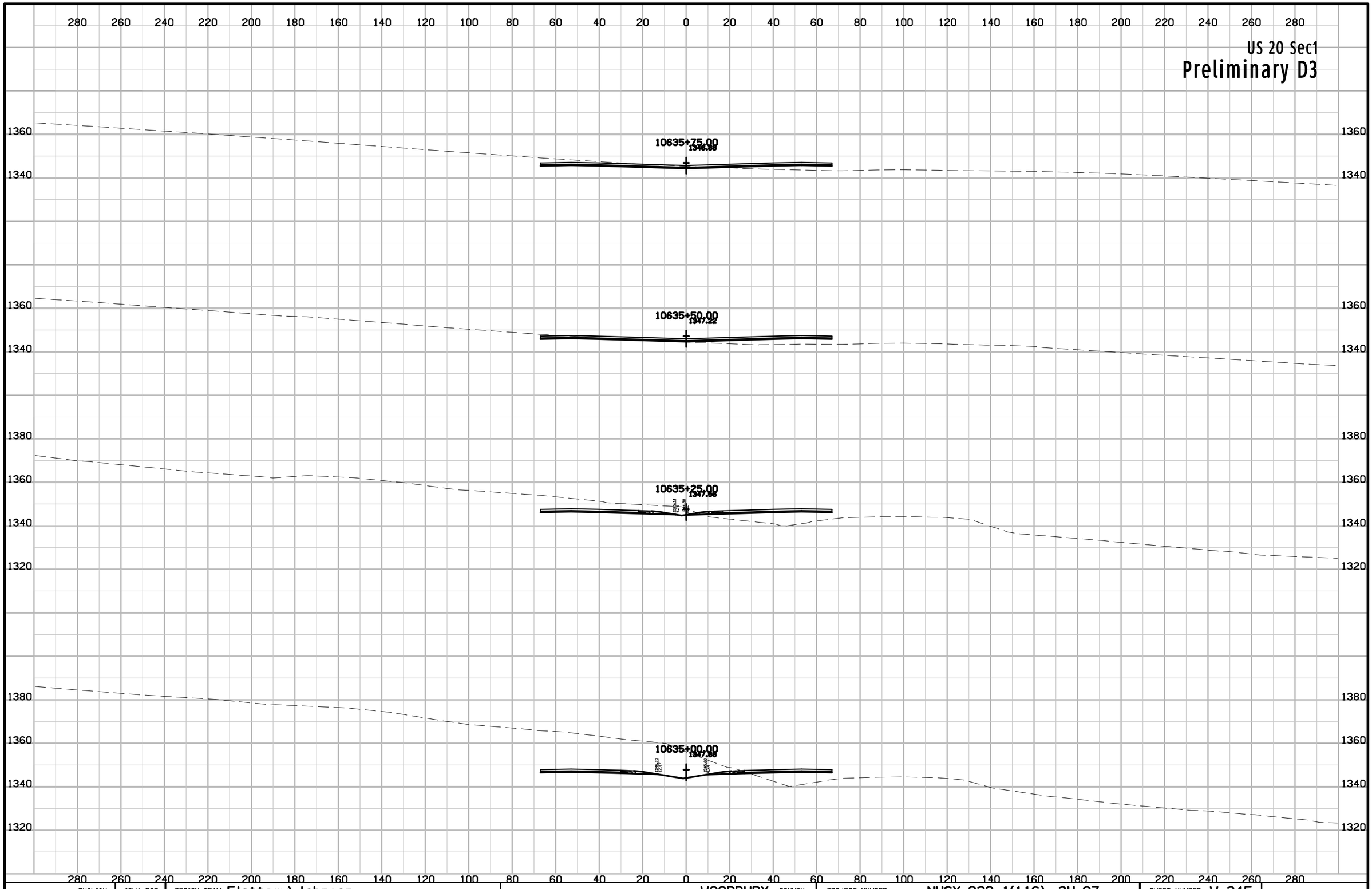
10634+25.00
1340.70

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.344

2:23:33 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

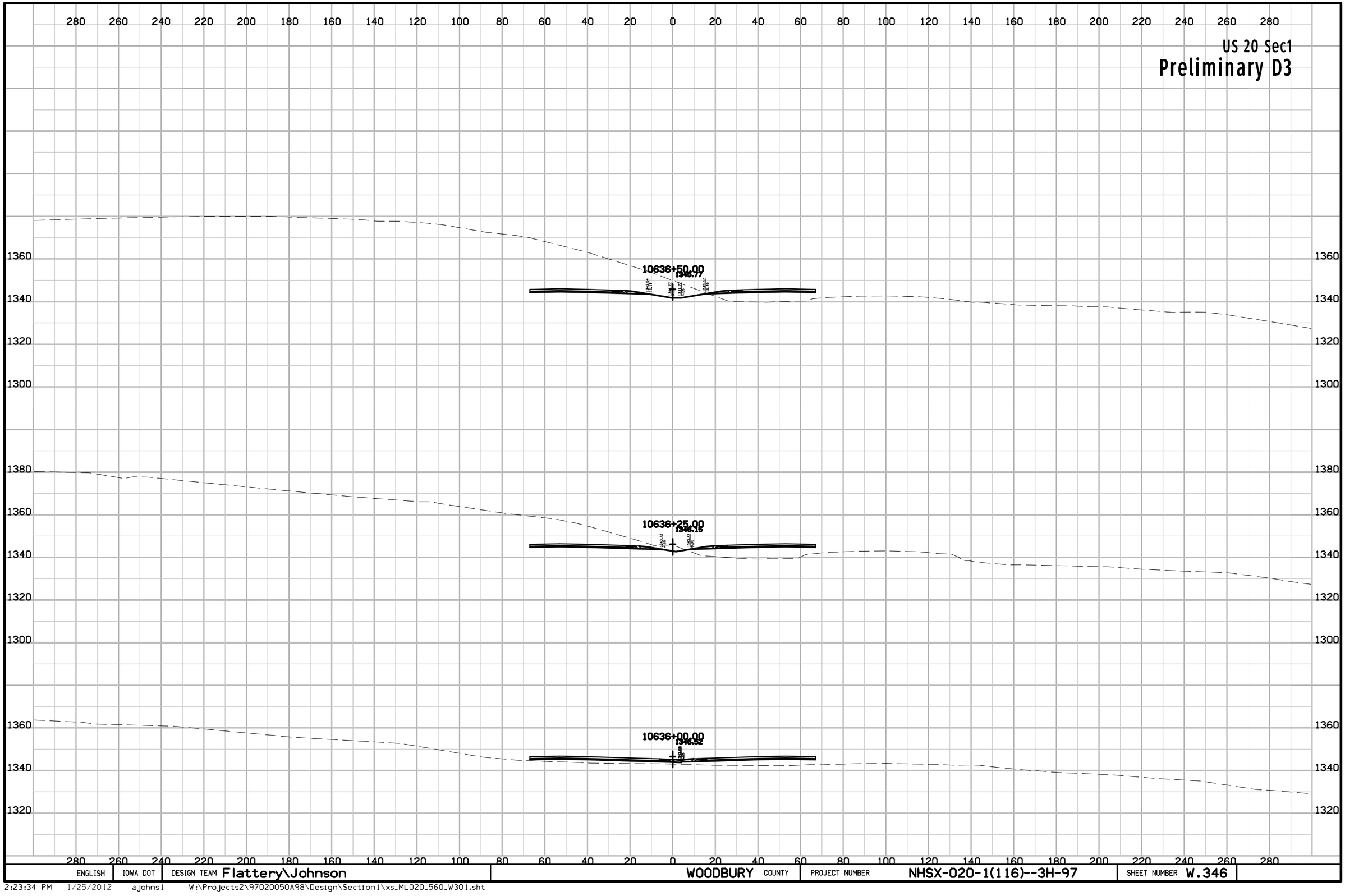


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.345

2:23:34 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

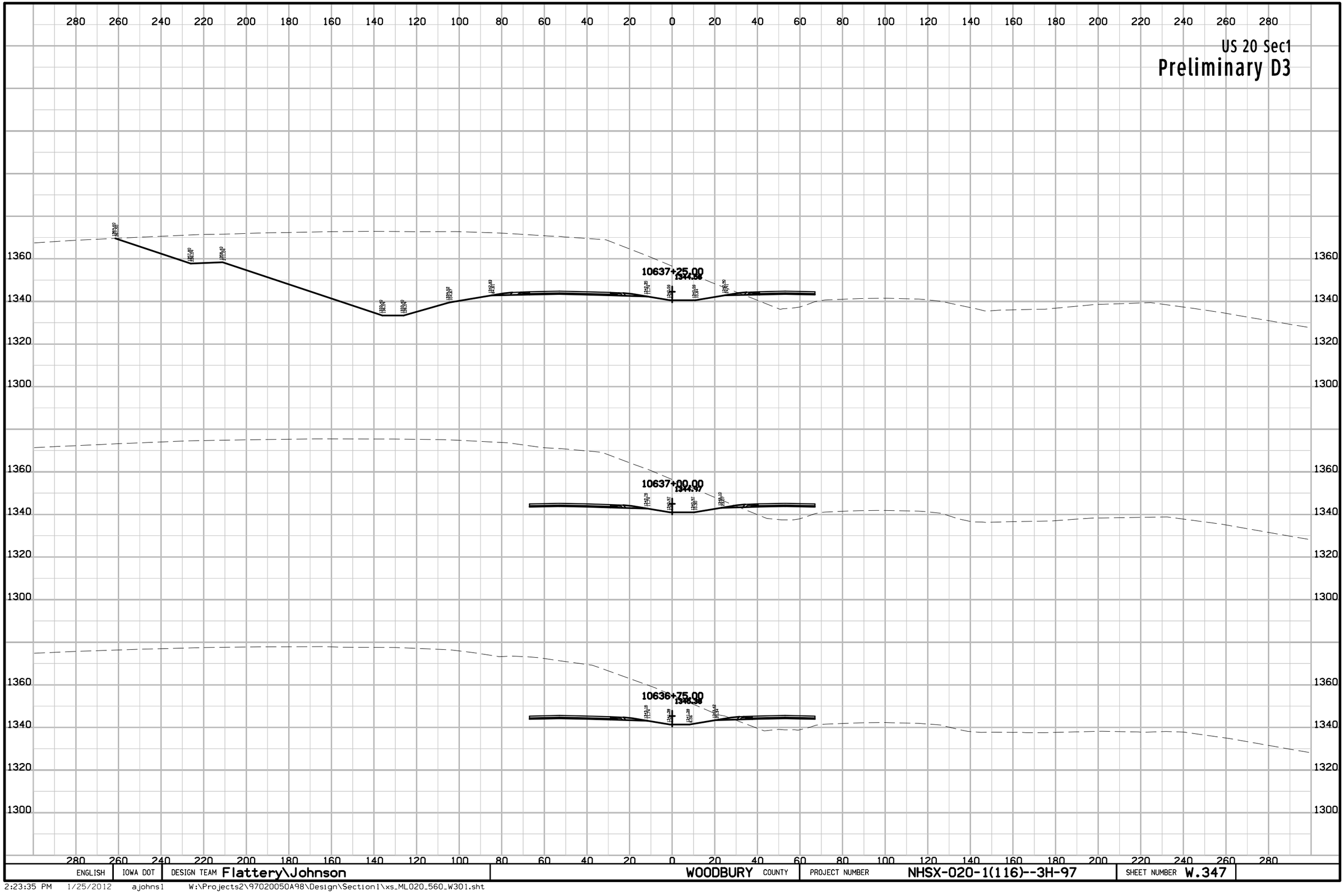


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.346

2:23:34 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

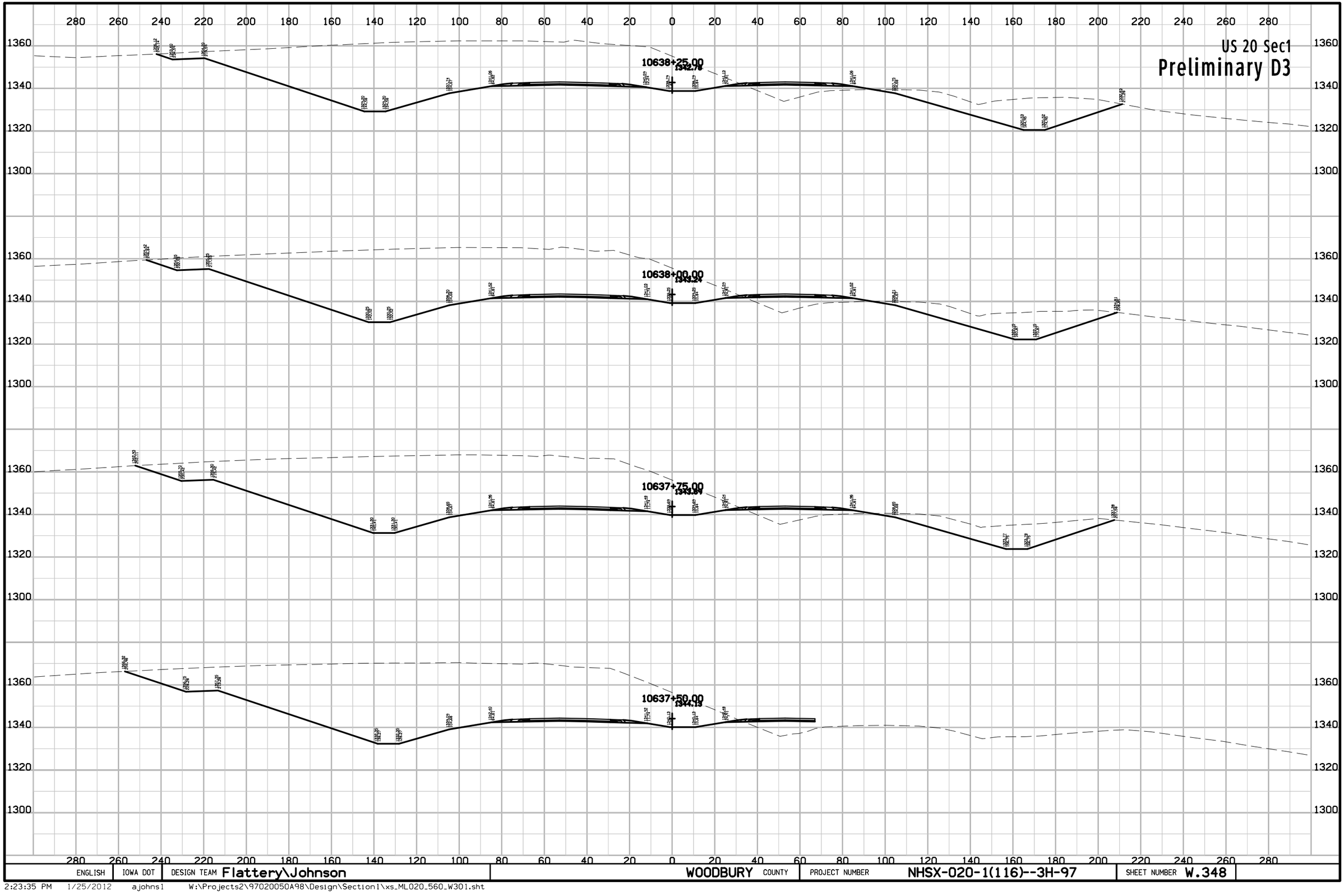


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.347

2:23:35 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

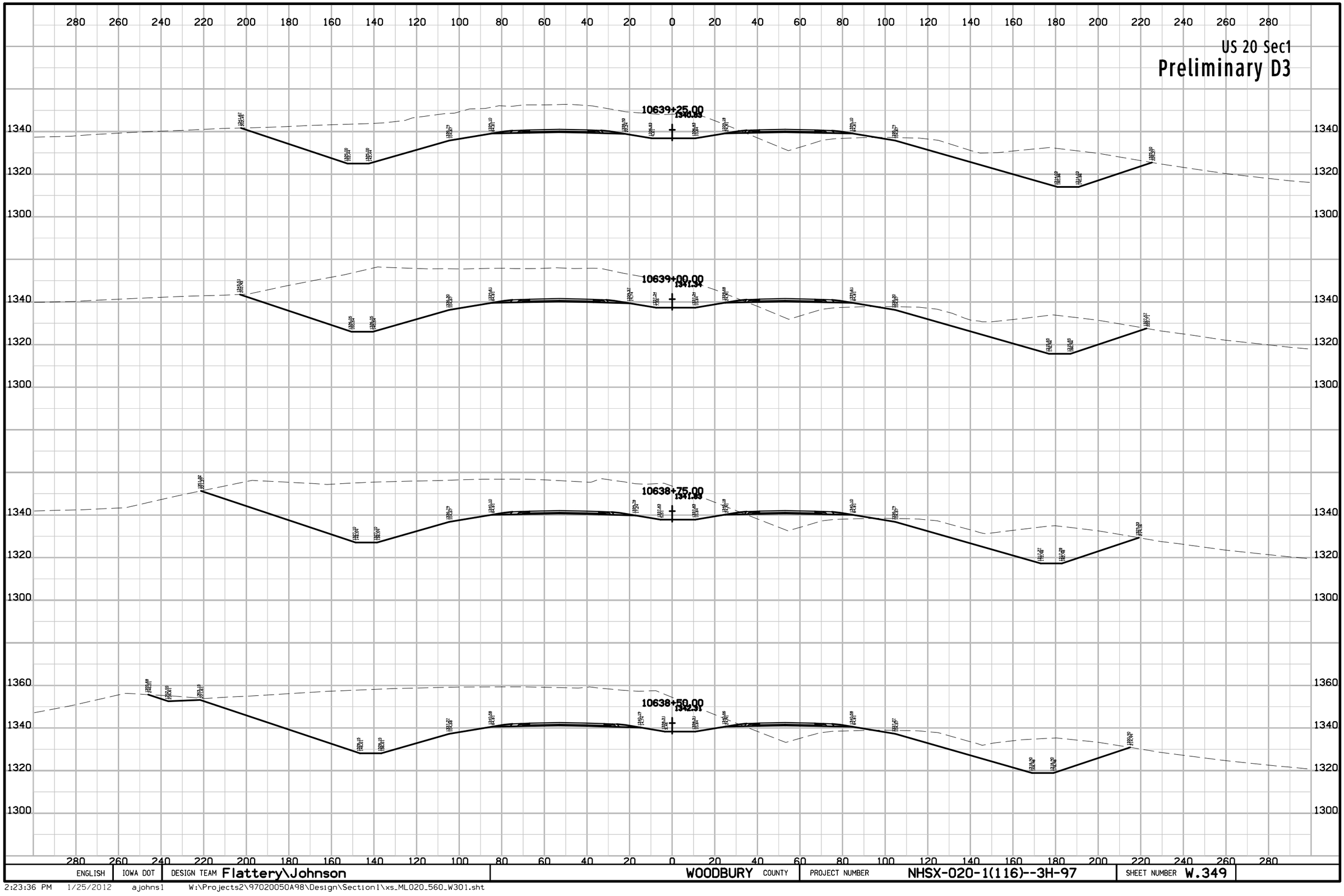


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.348

2:23:35 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

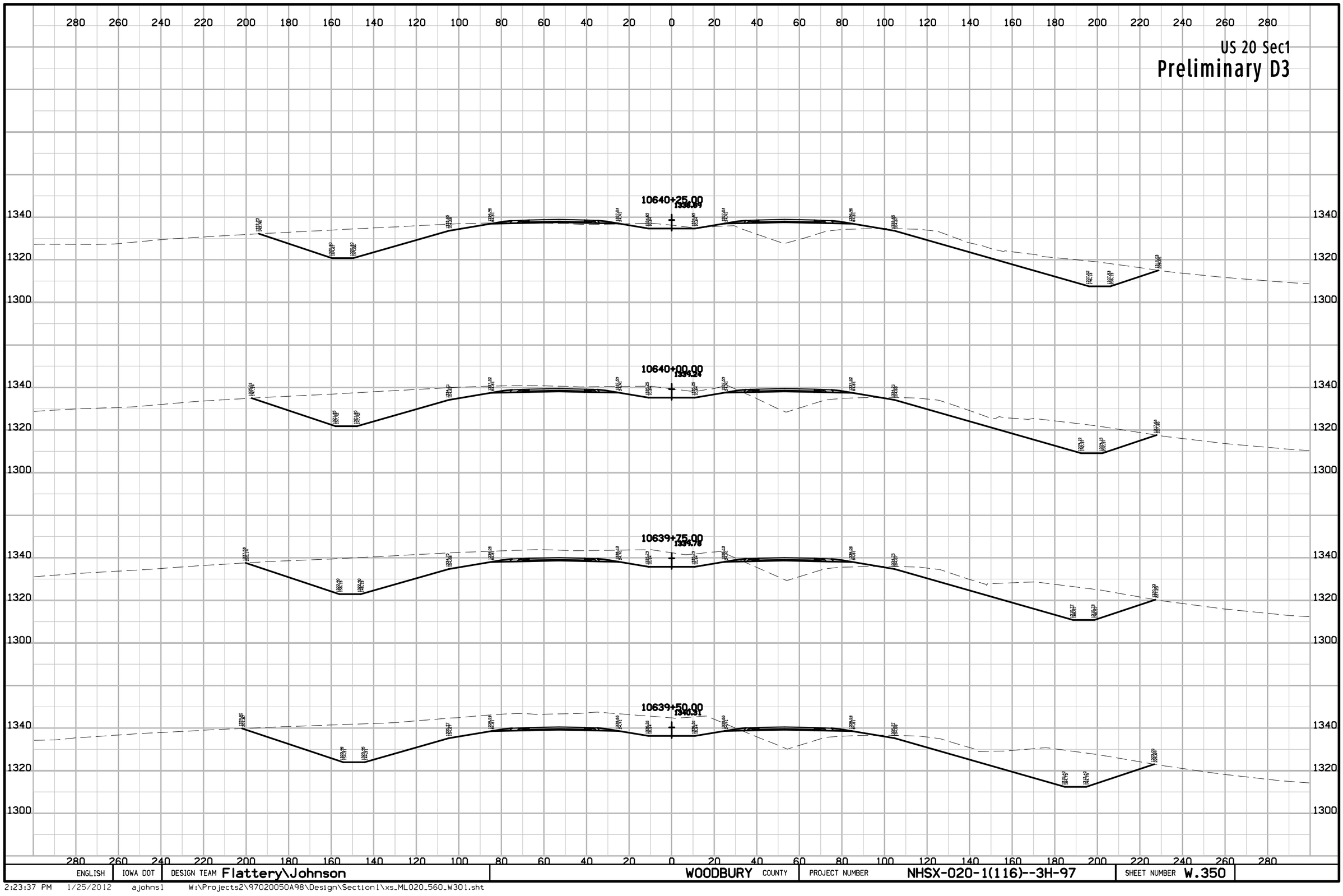


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.349

2:23:36 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

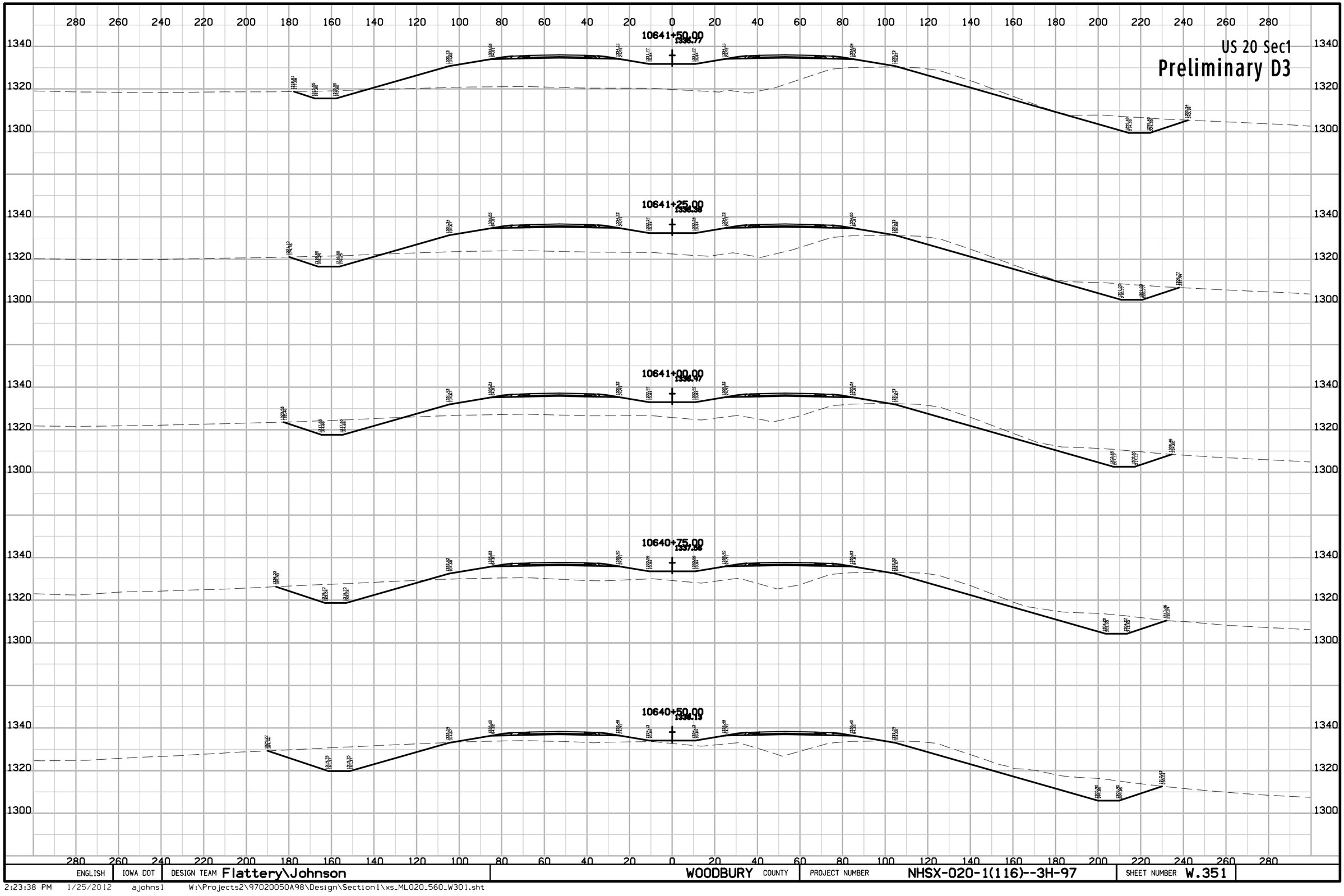


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.350

2:23:37 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

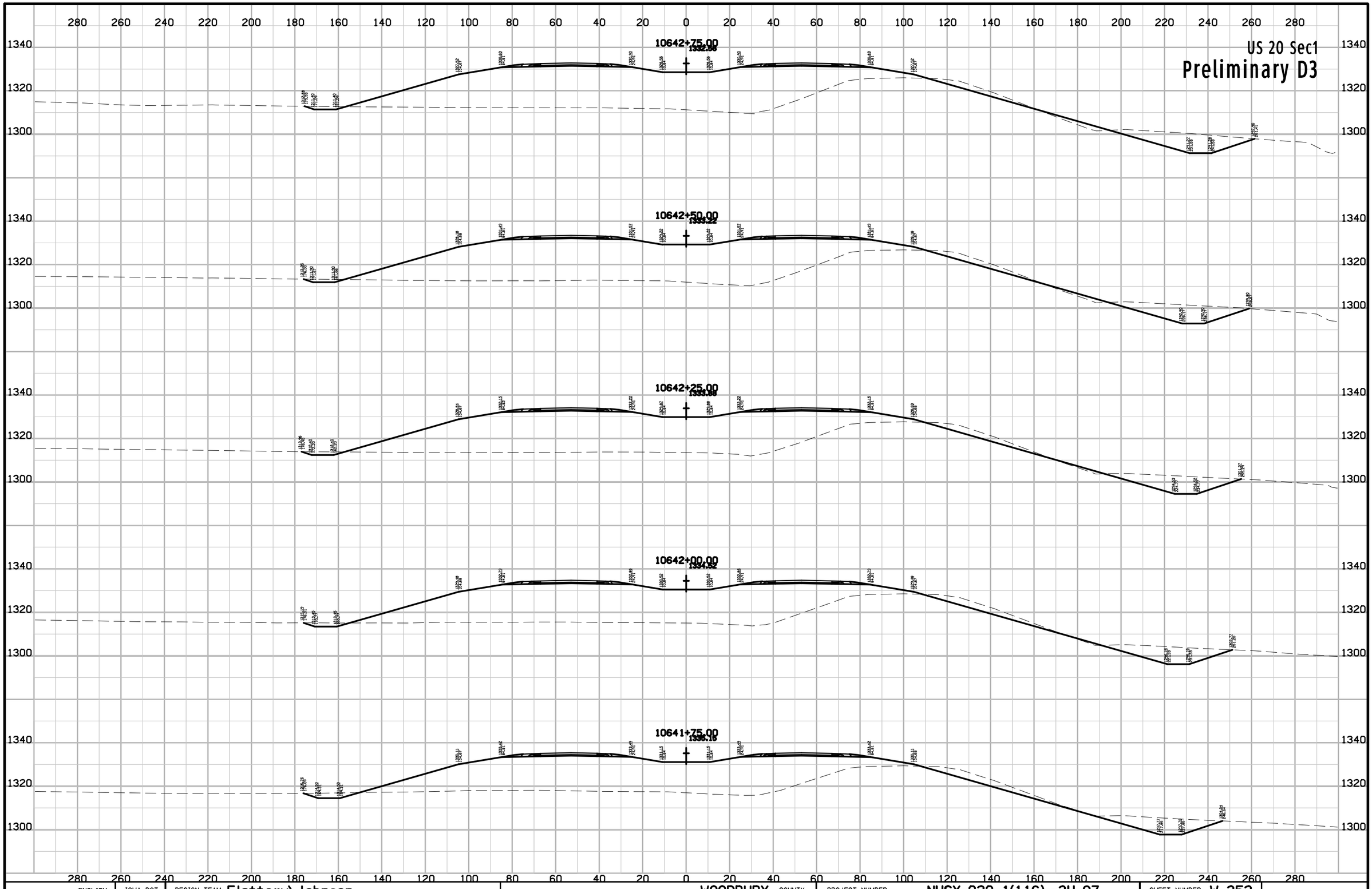


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.351

2:23:38 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

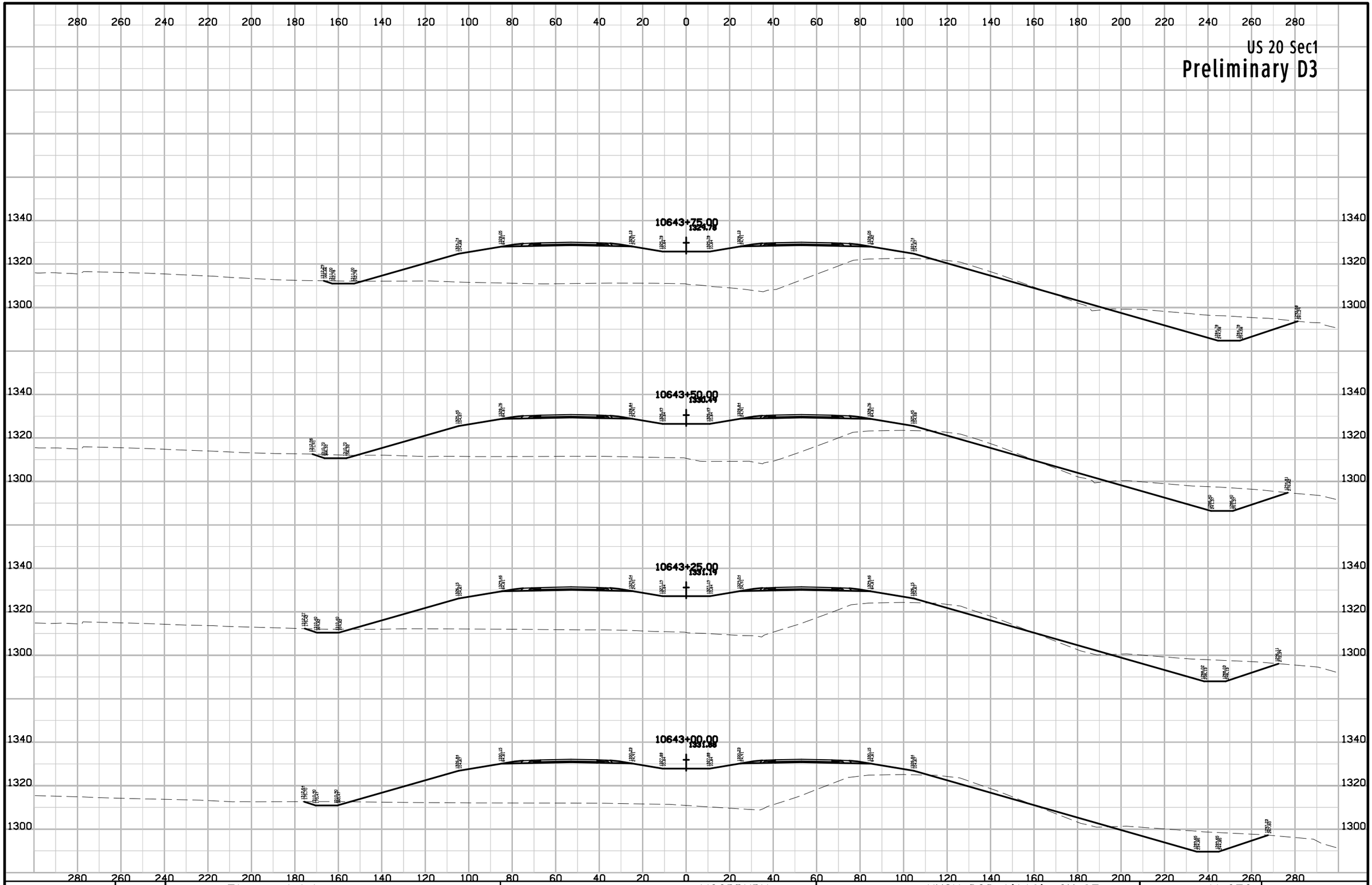


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.352

2:23:38 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

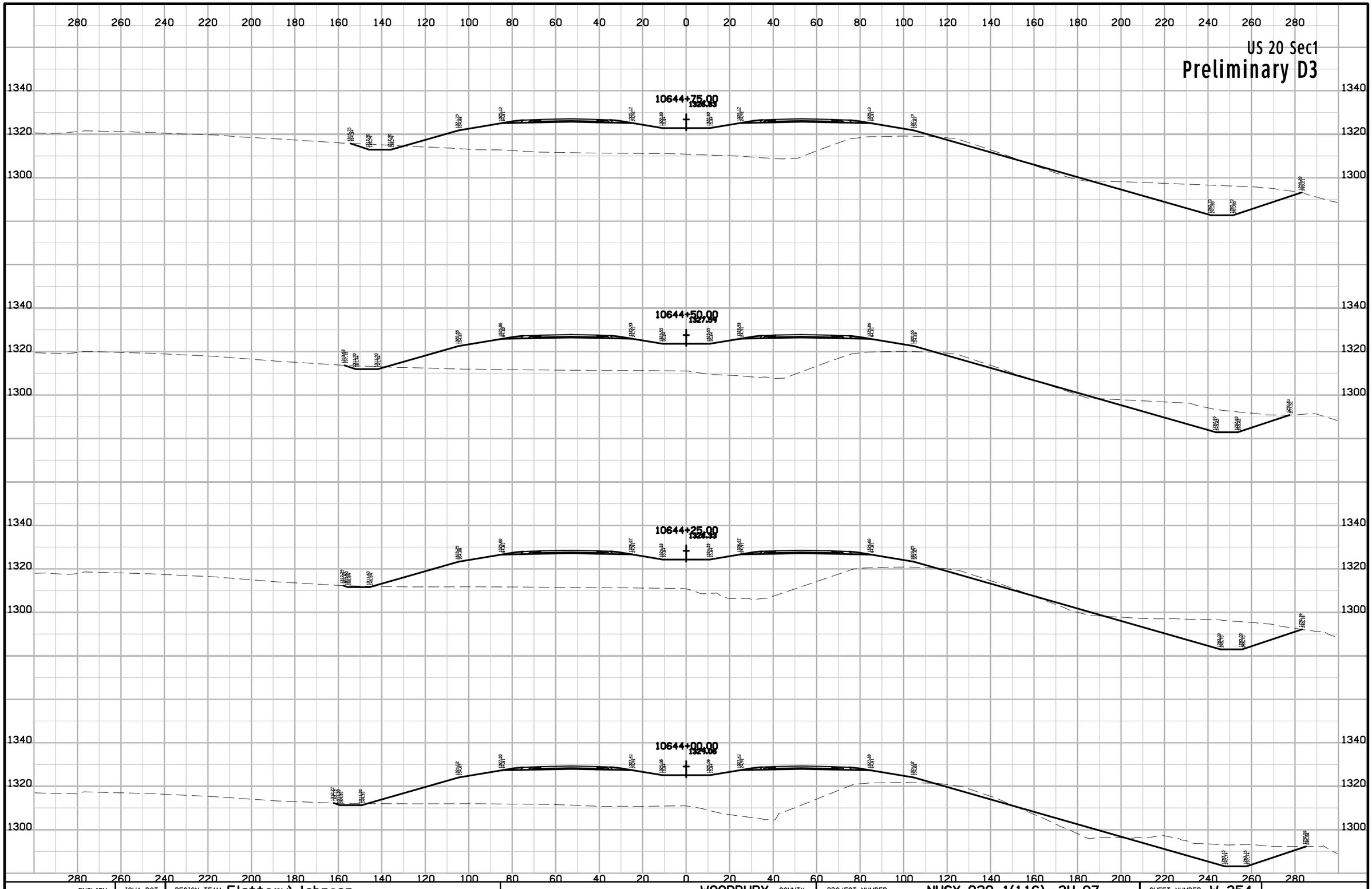


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.353

2:23:39 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

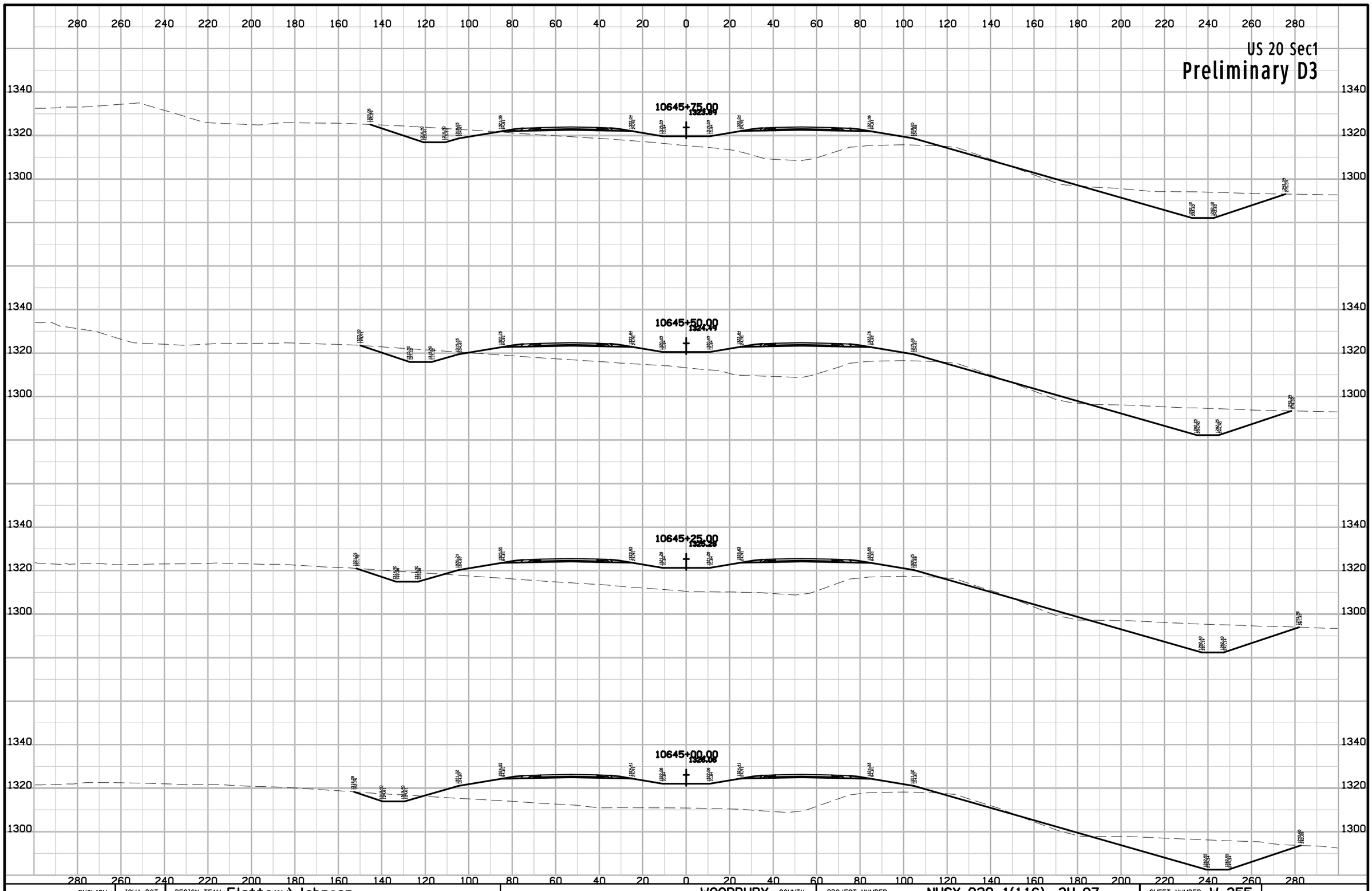


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.354

2:23:40 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

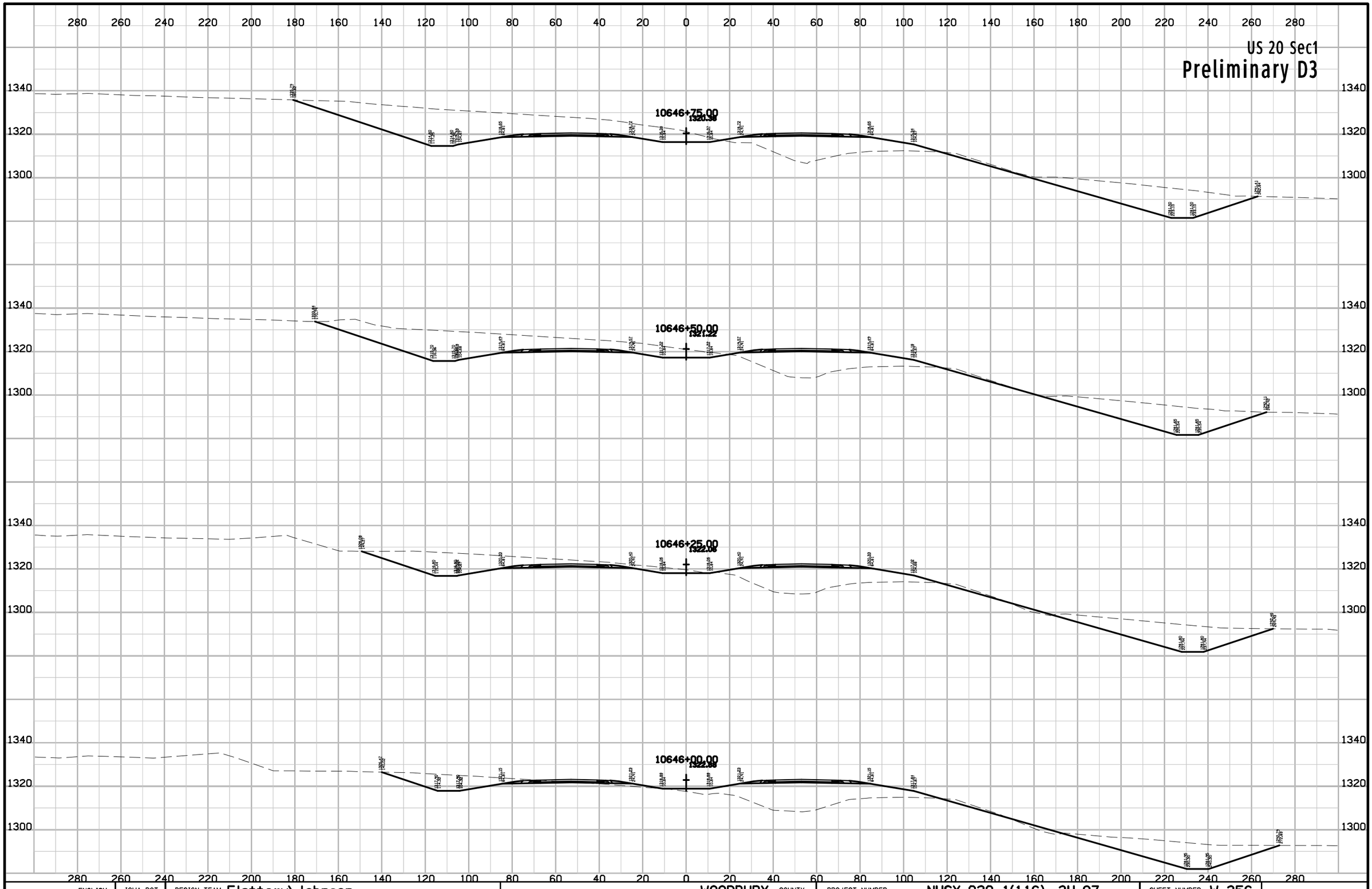


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.355

2:23:40 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

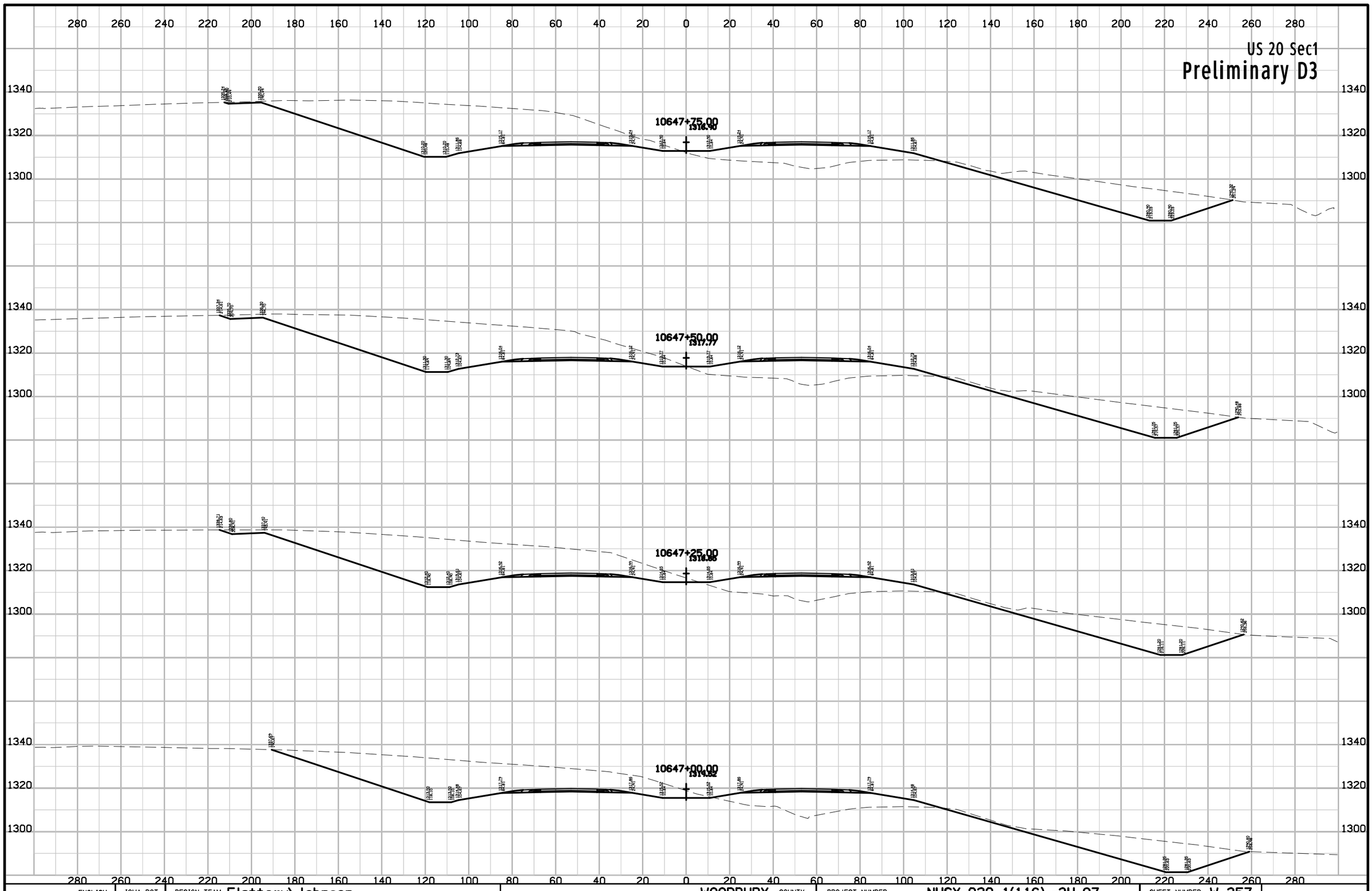


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.356

2:23:41 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

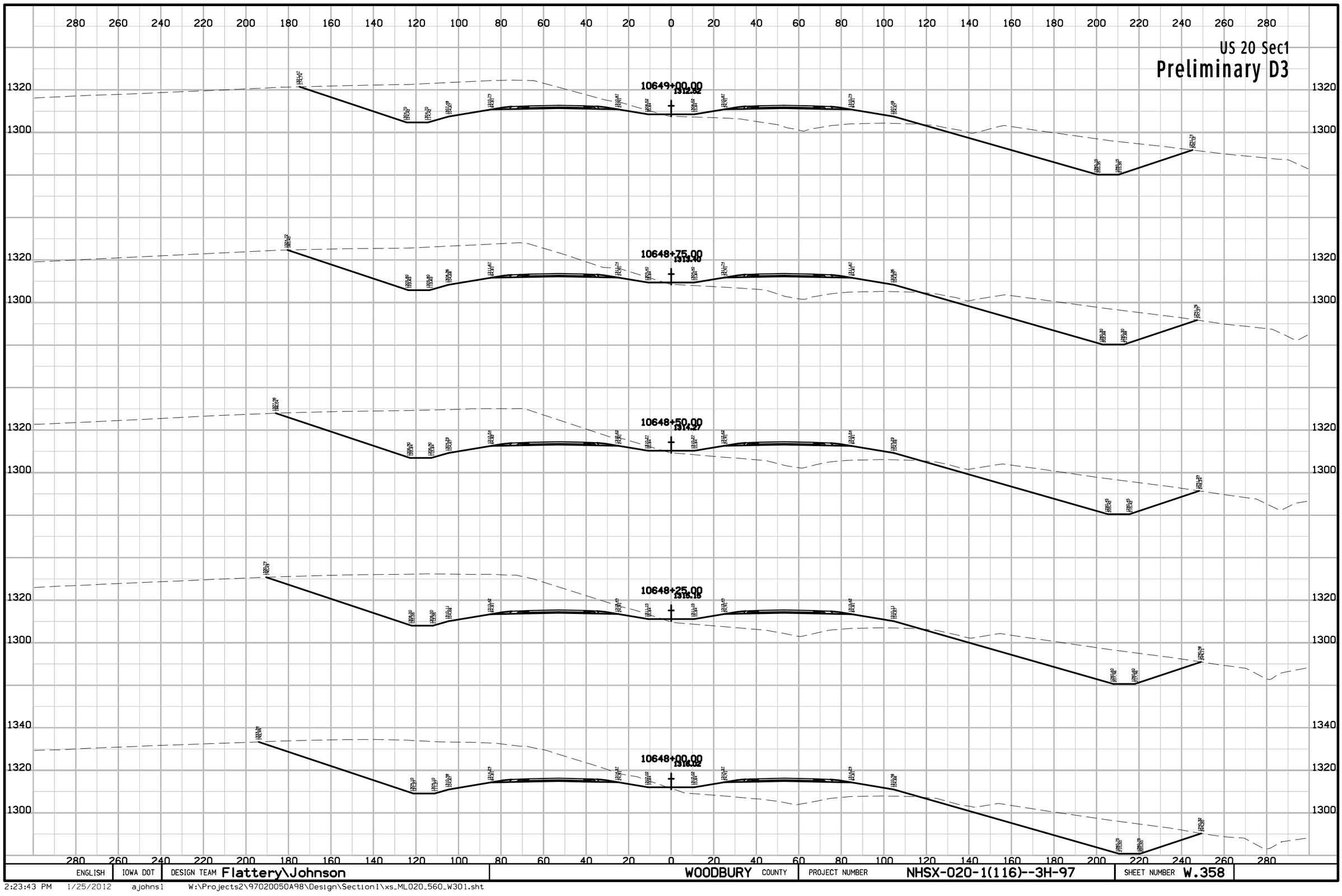


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.357

2:23:42 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.358

2:23:43 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.359

2:23:43 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.360

2:23:44 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

10652+25.00
1301.16

10652+00.00
1302.02

10651+75.00
1302.90

10651+50.00
1303.77

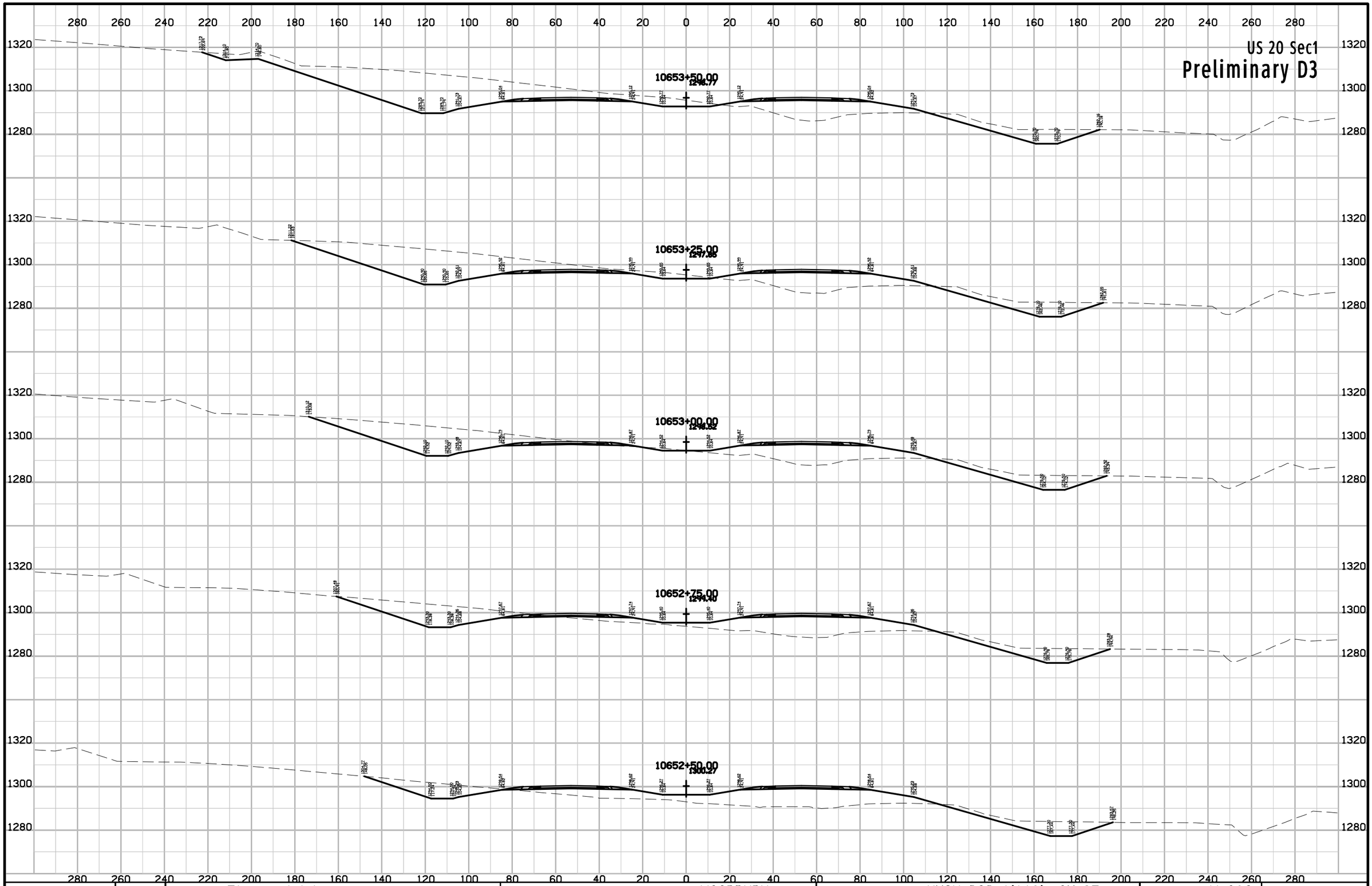
10651+25.00
1304.66

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.361

2:23:45 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

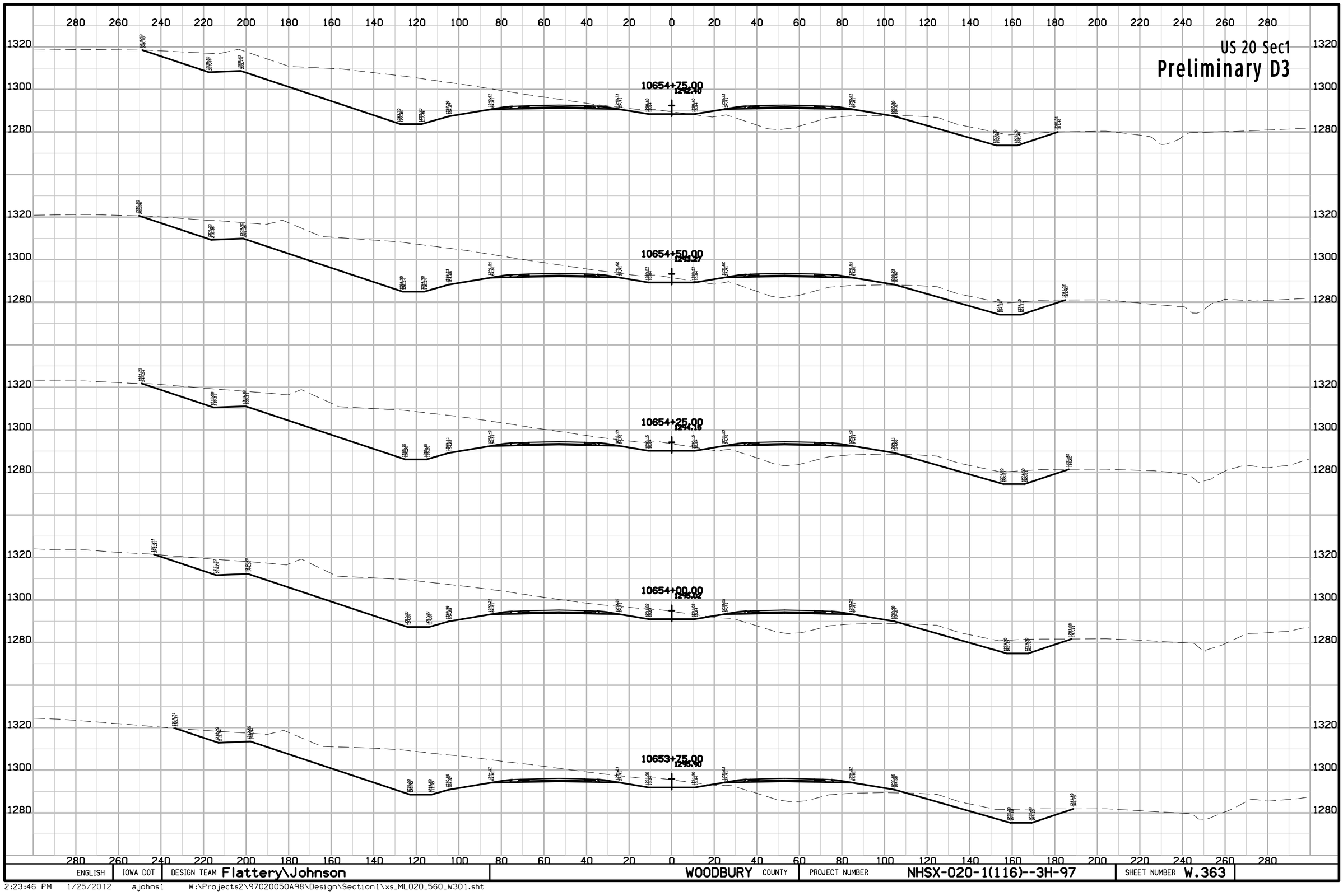


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.362

2:23:45 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

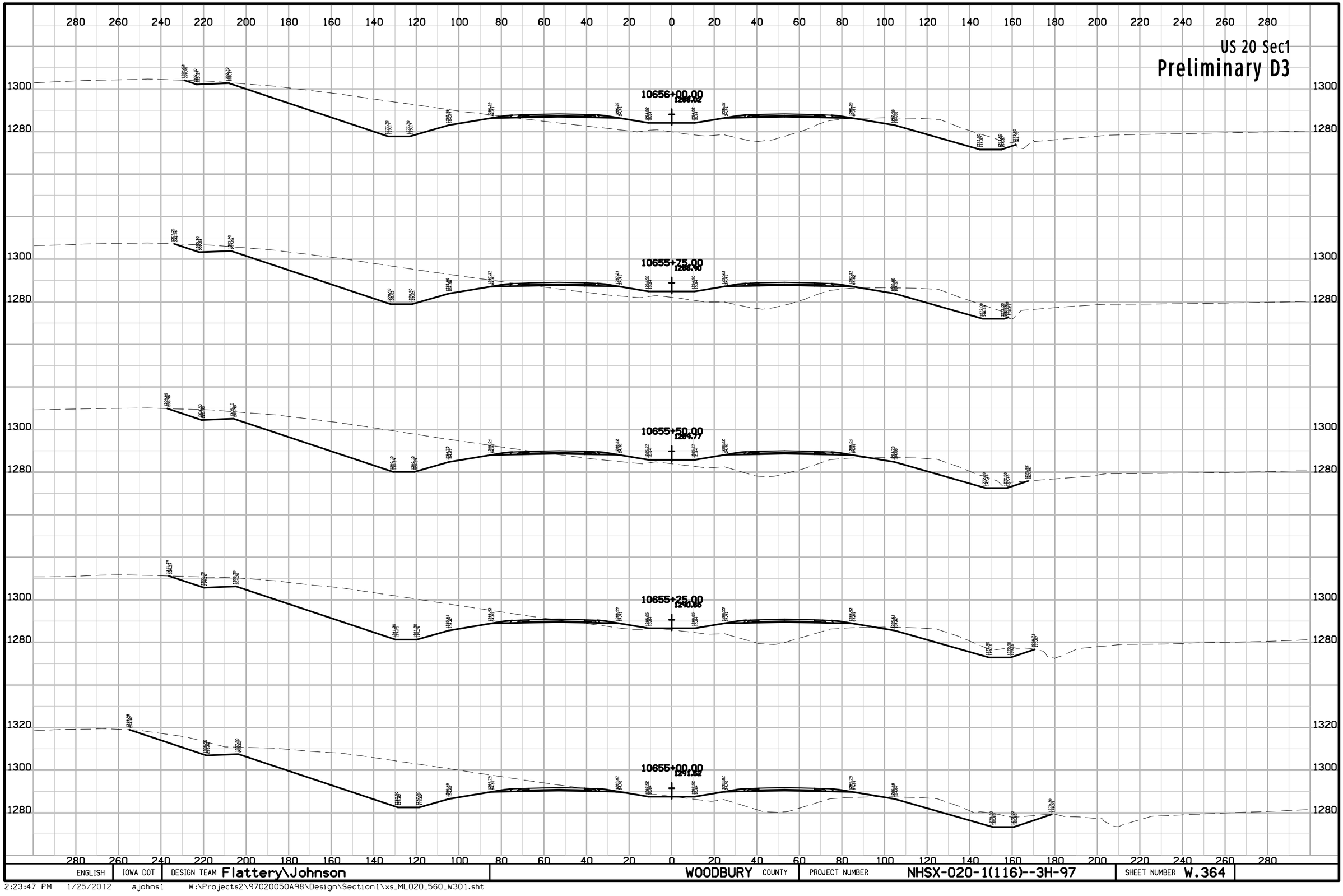


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.363

2:23:46 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

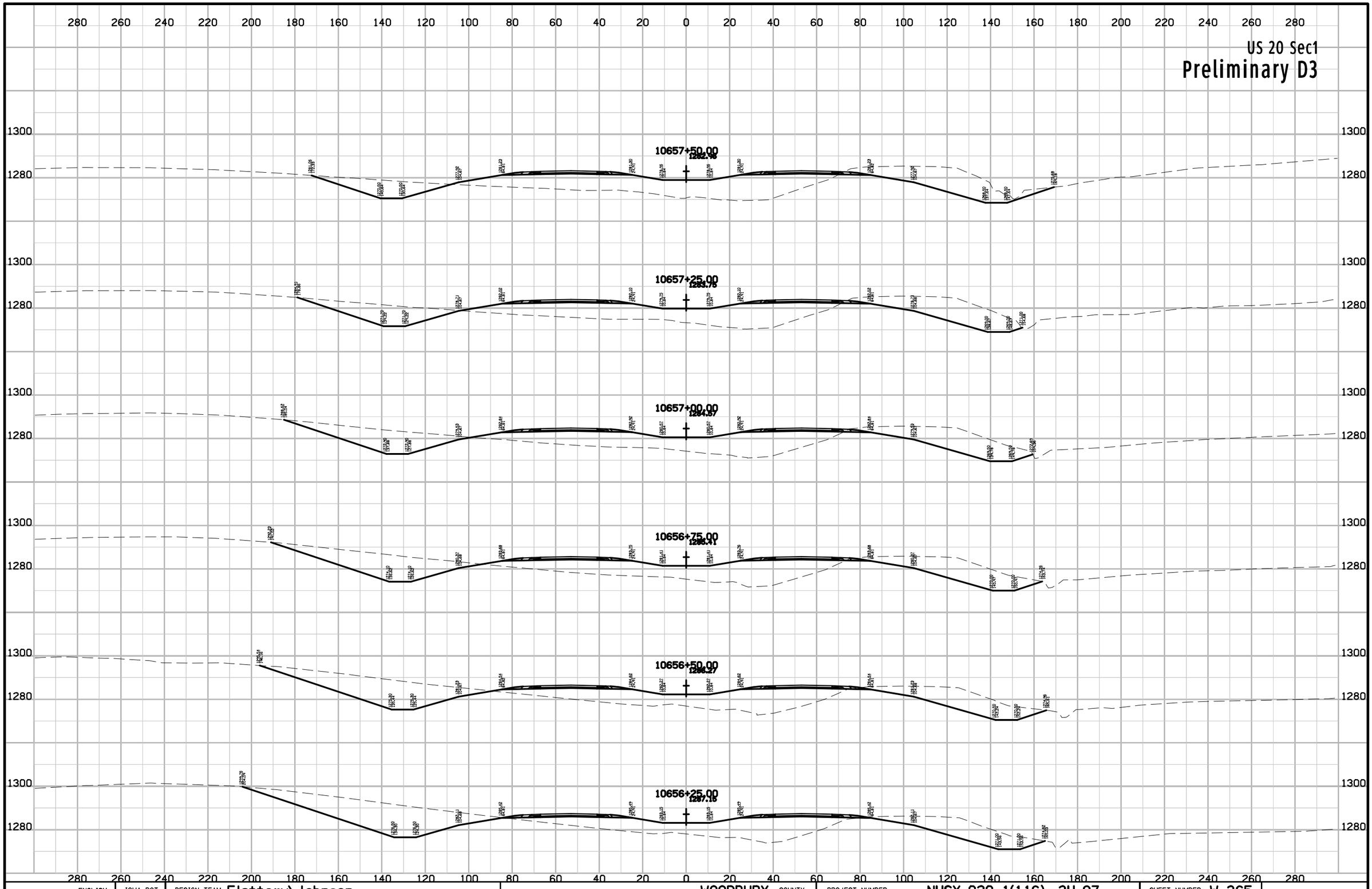


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.364

2:23:47 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

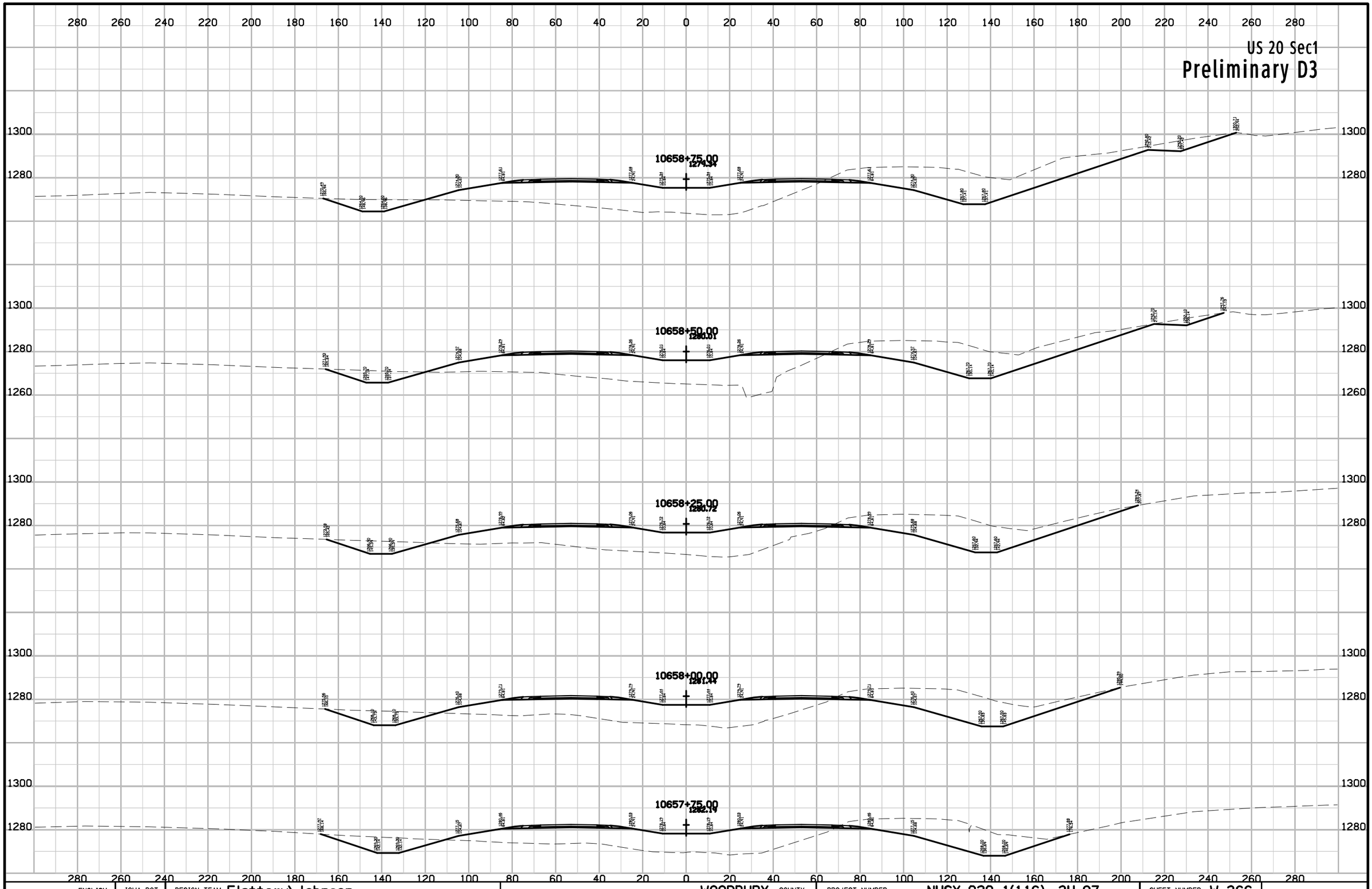


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.365

2:23:48 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

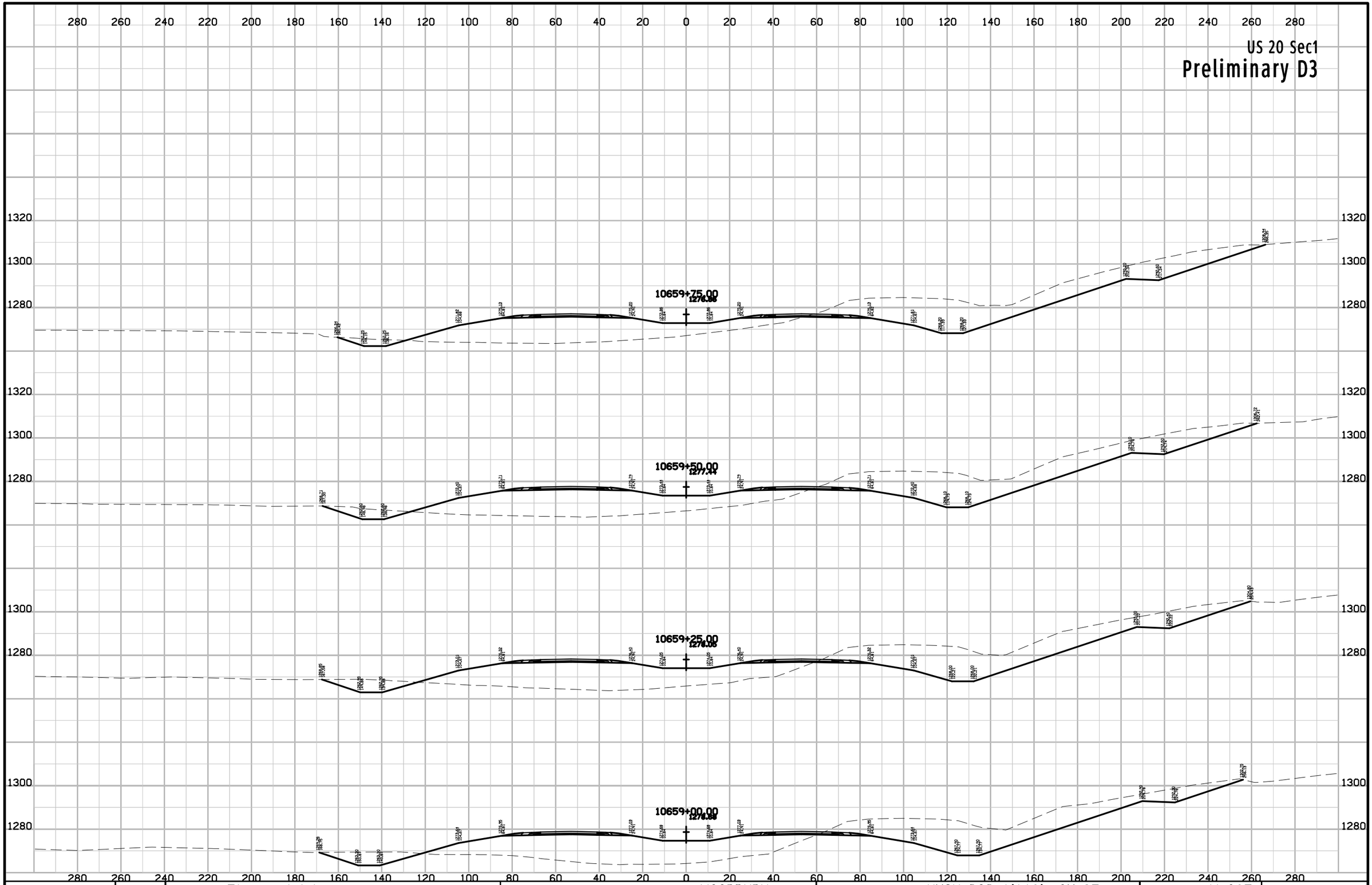


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.366

2:23:48 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

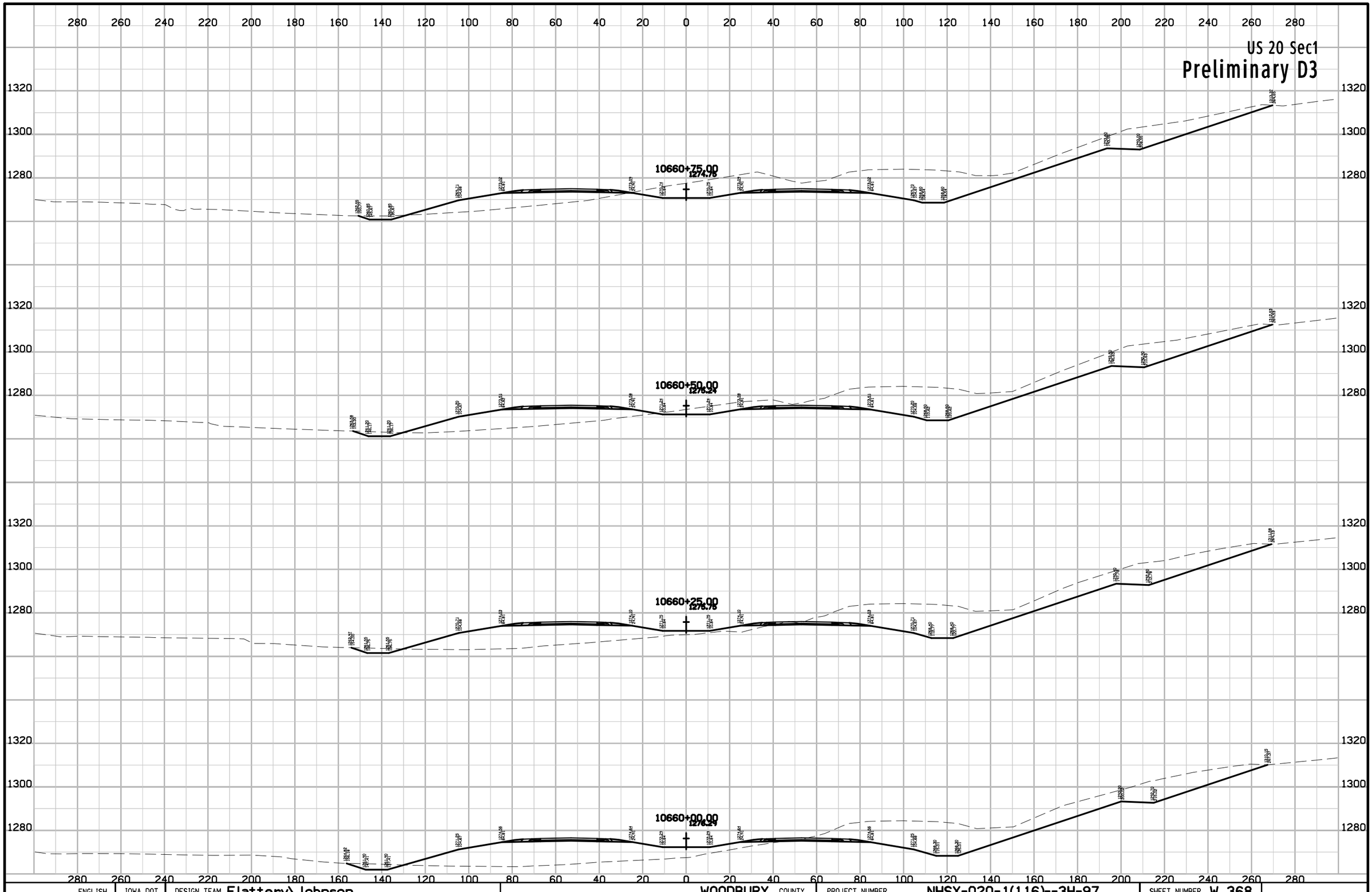


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.367	

2:23:49 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

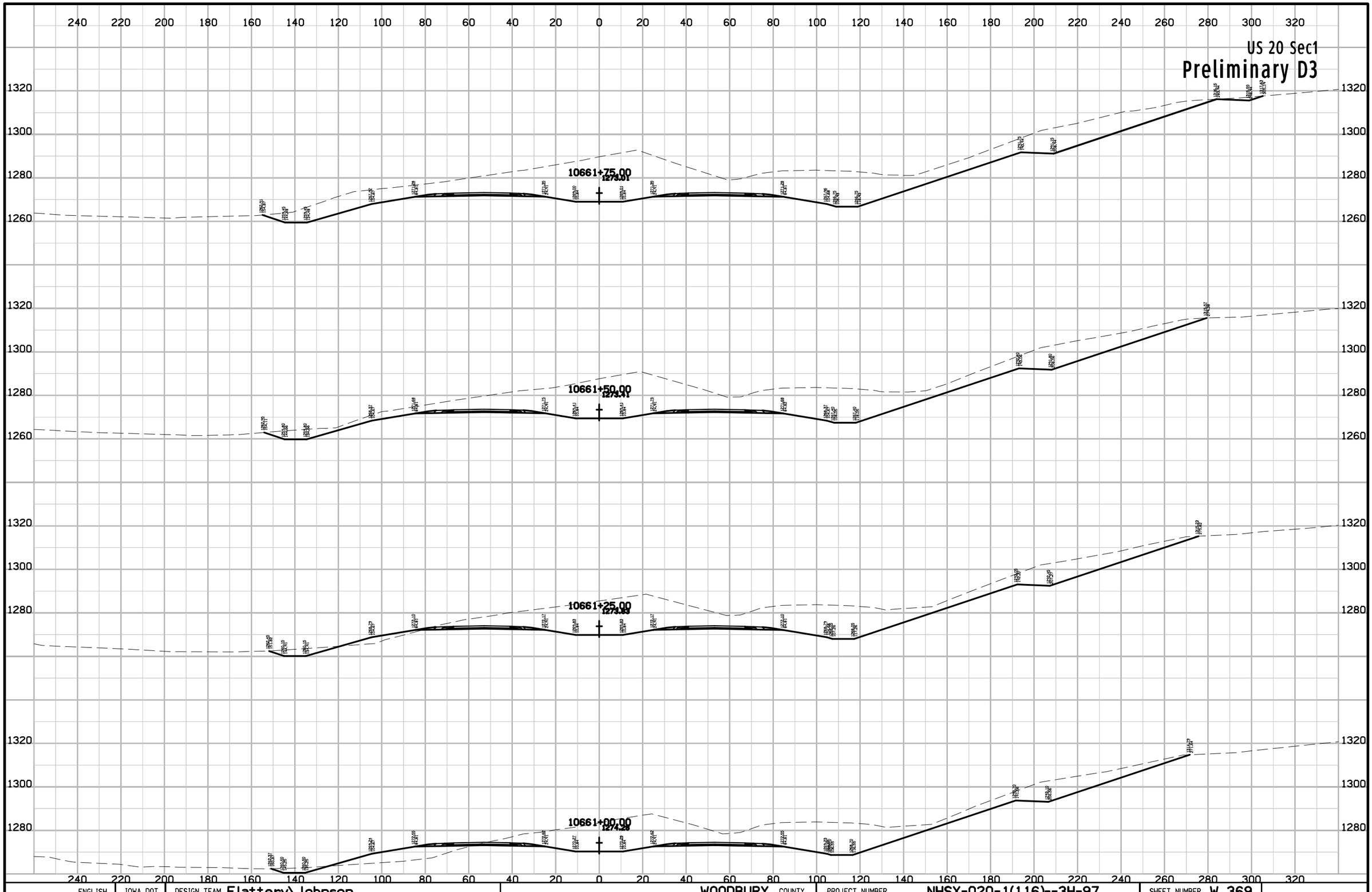


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.368

2:23:50 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

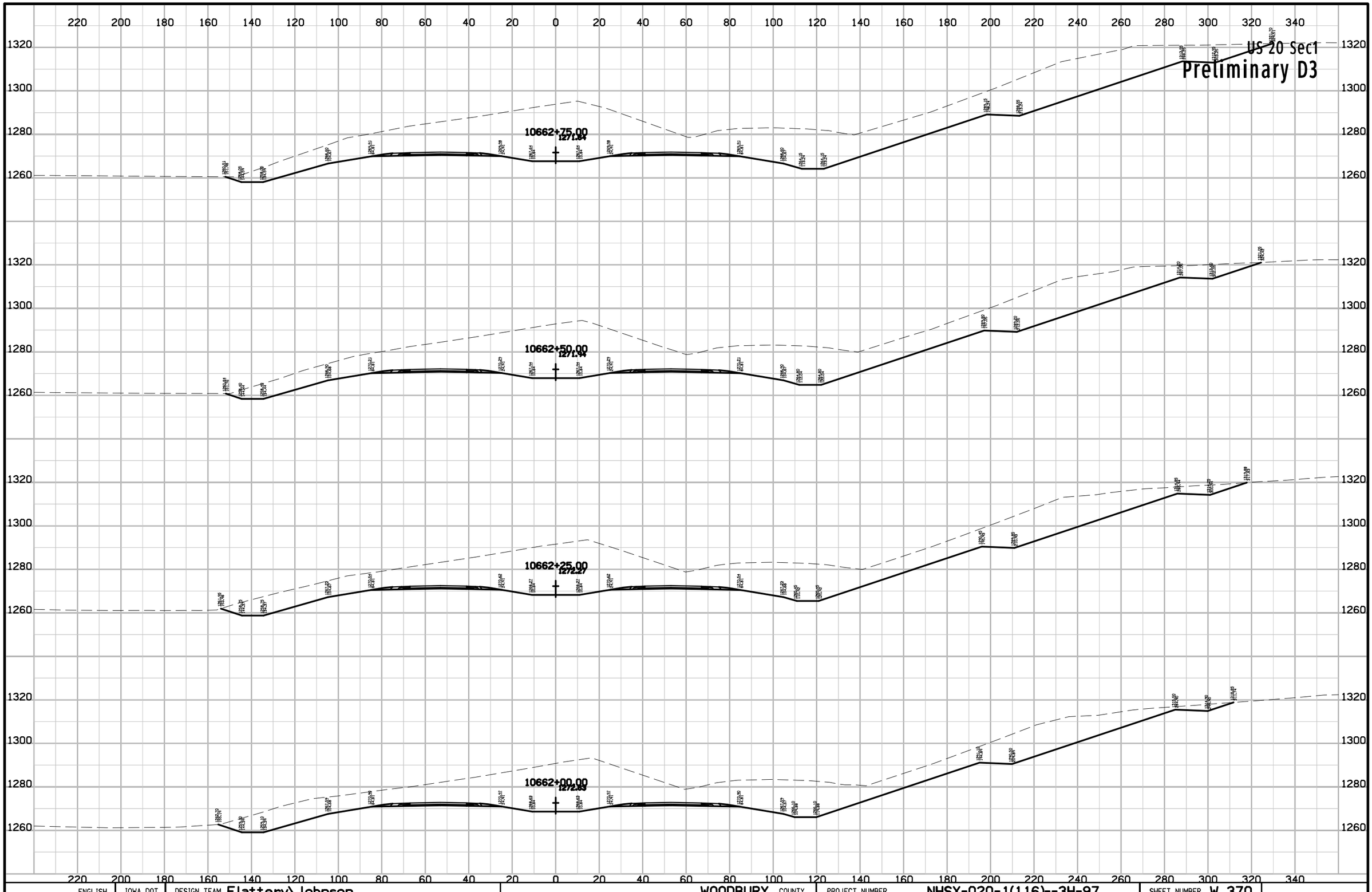


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.369

2:23:51 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

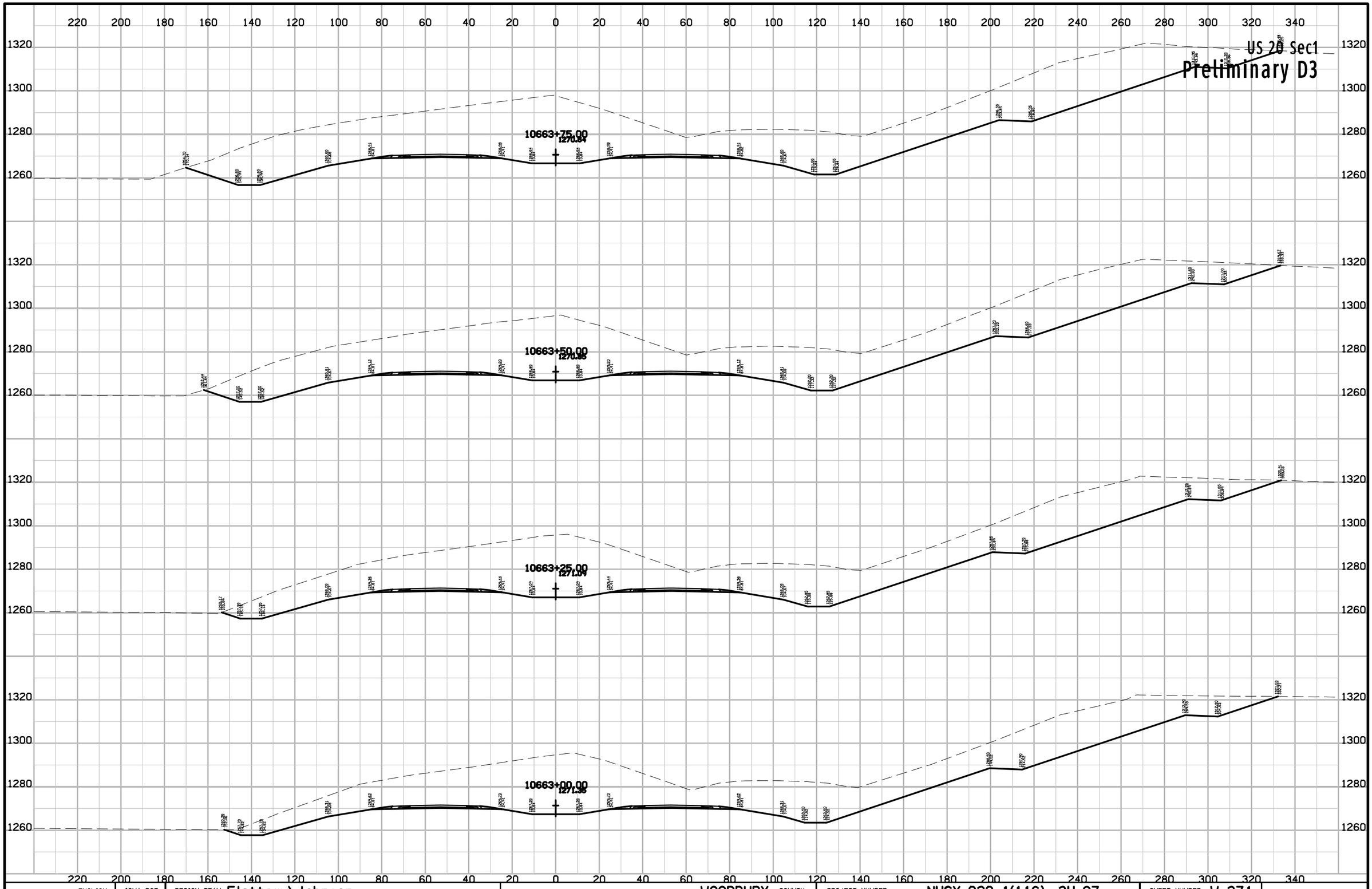


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.370

2:23:51 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

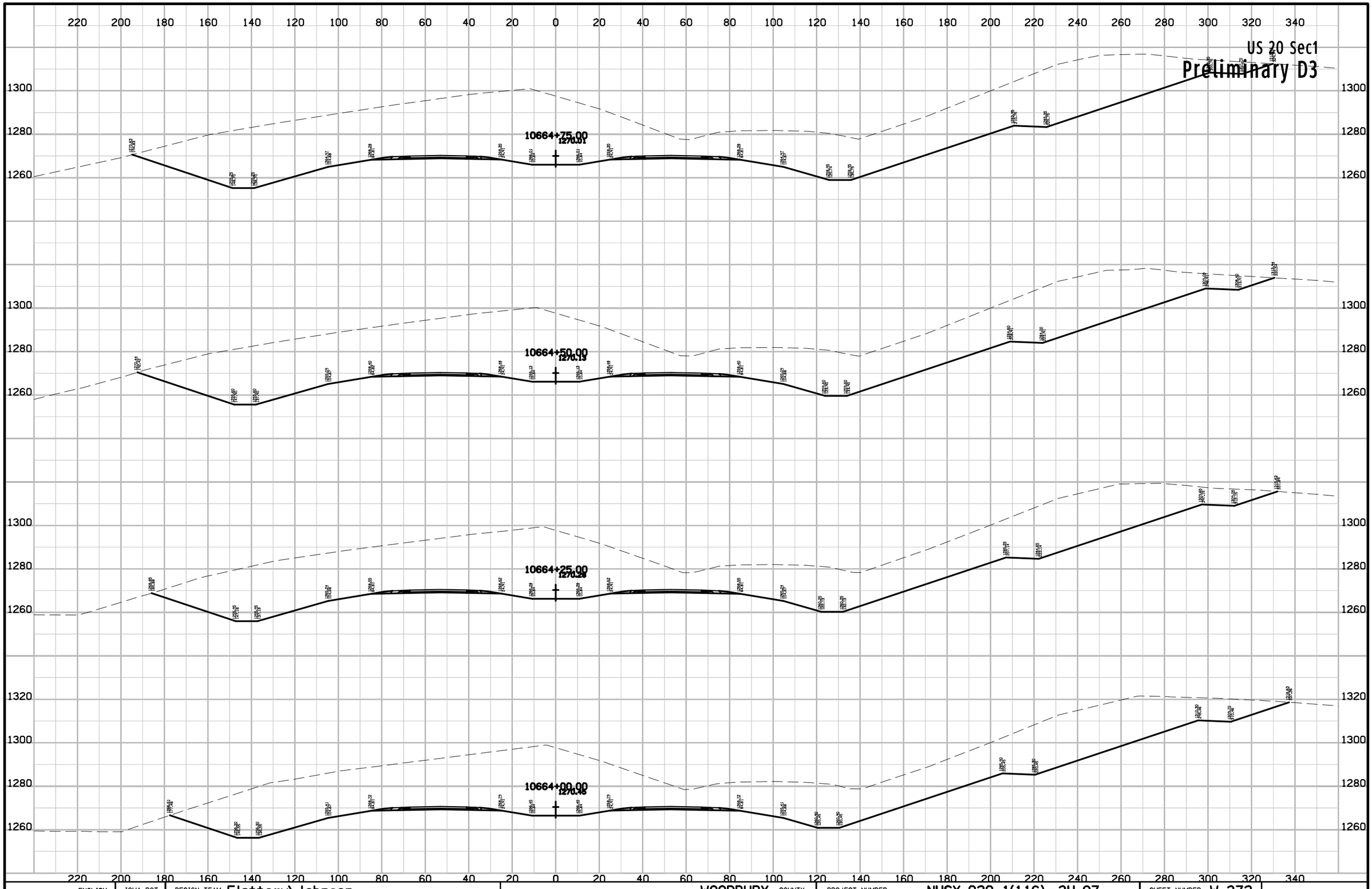


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.371

2:23:52 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

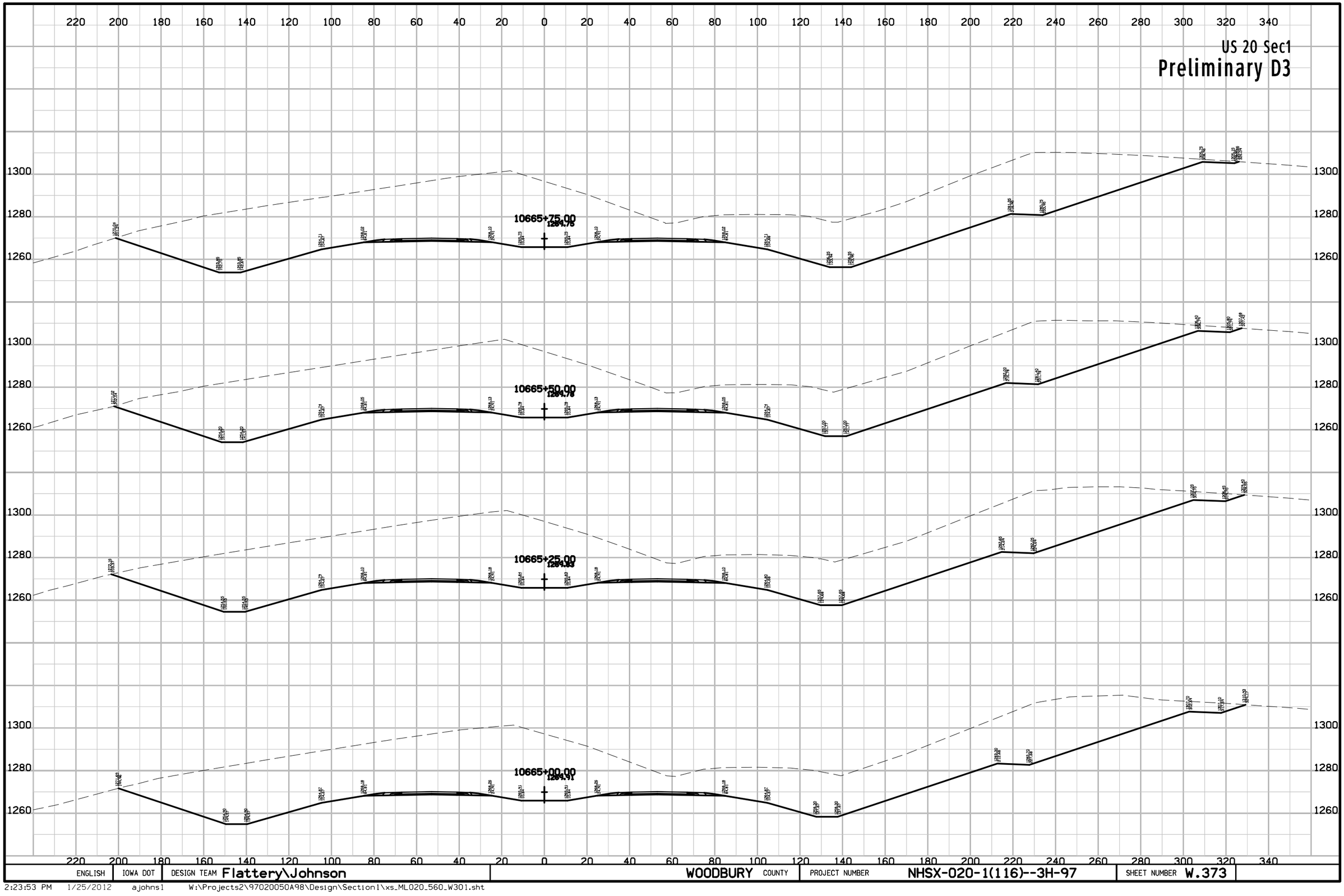


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.372

2:23:53 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.373

2:23:53 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

10667+00.00
1284.95

10666+75.00
1284.97

10666+50.00
1284.80

10666+25.00
1284.78

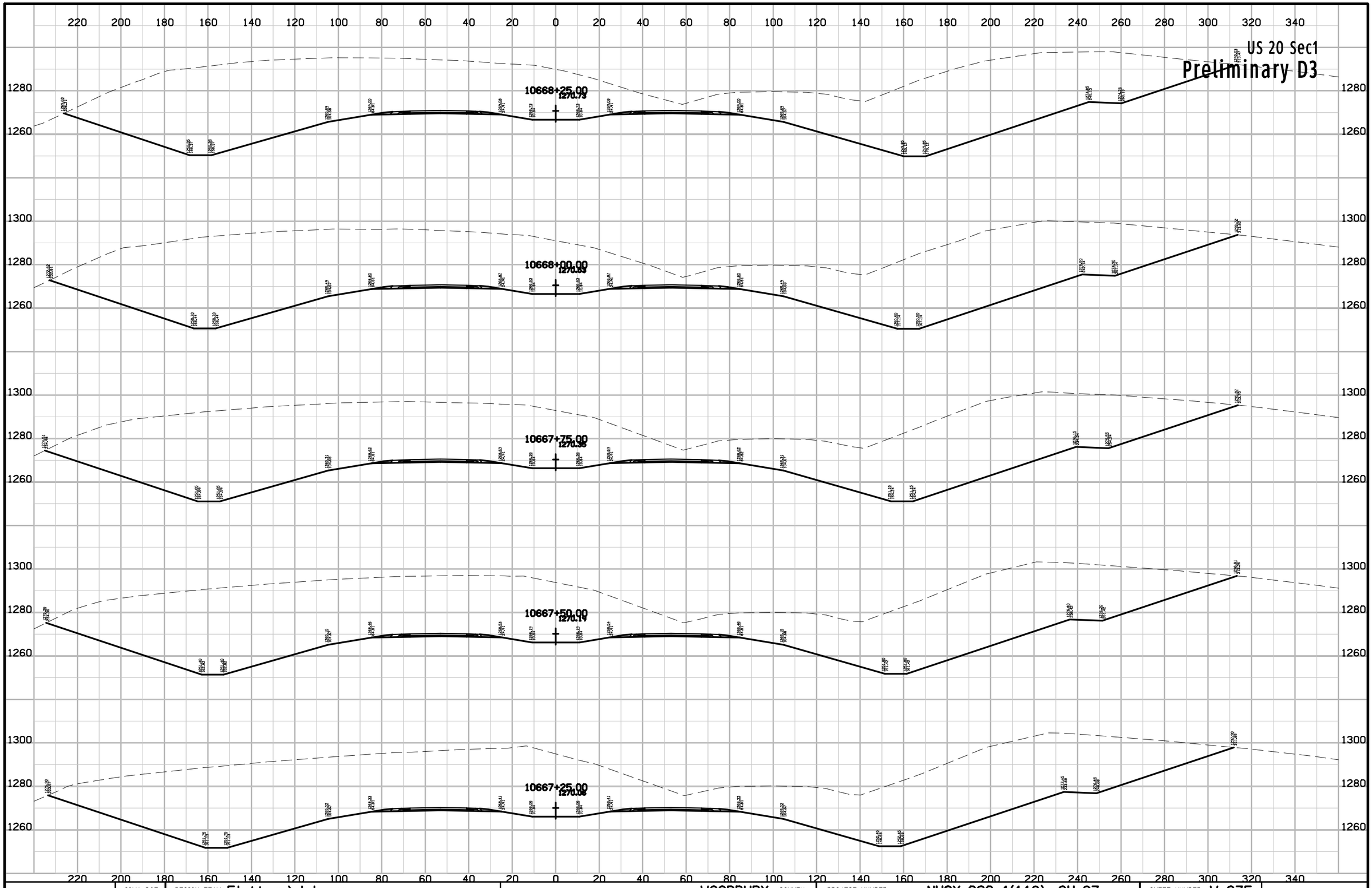
10666+00.00
1284.78

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.374

2:23:54 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

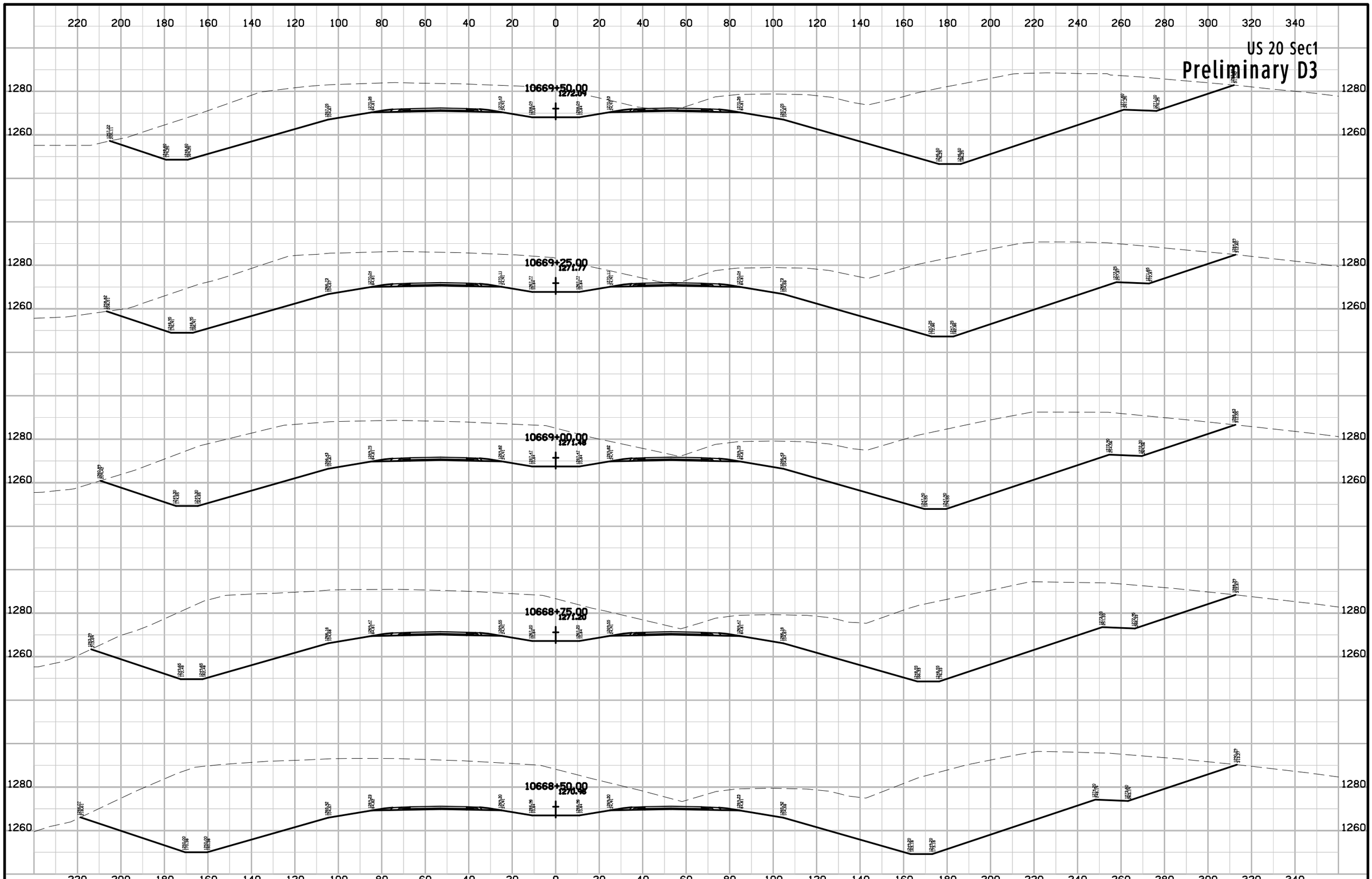


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.375

2:23:55 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

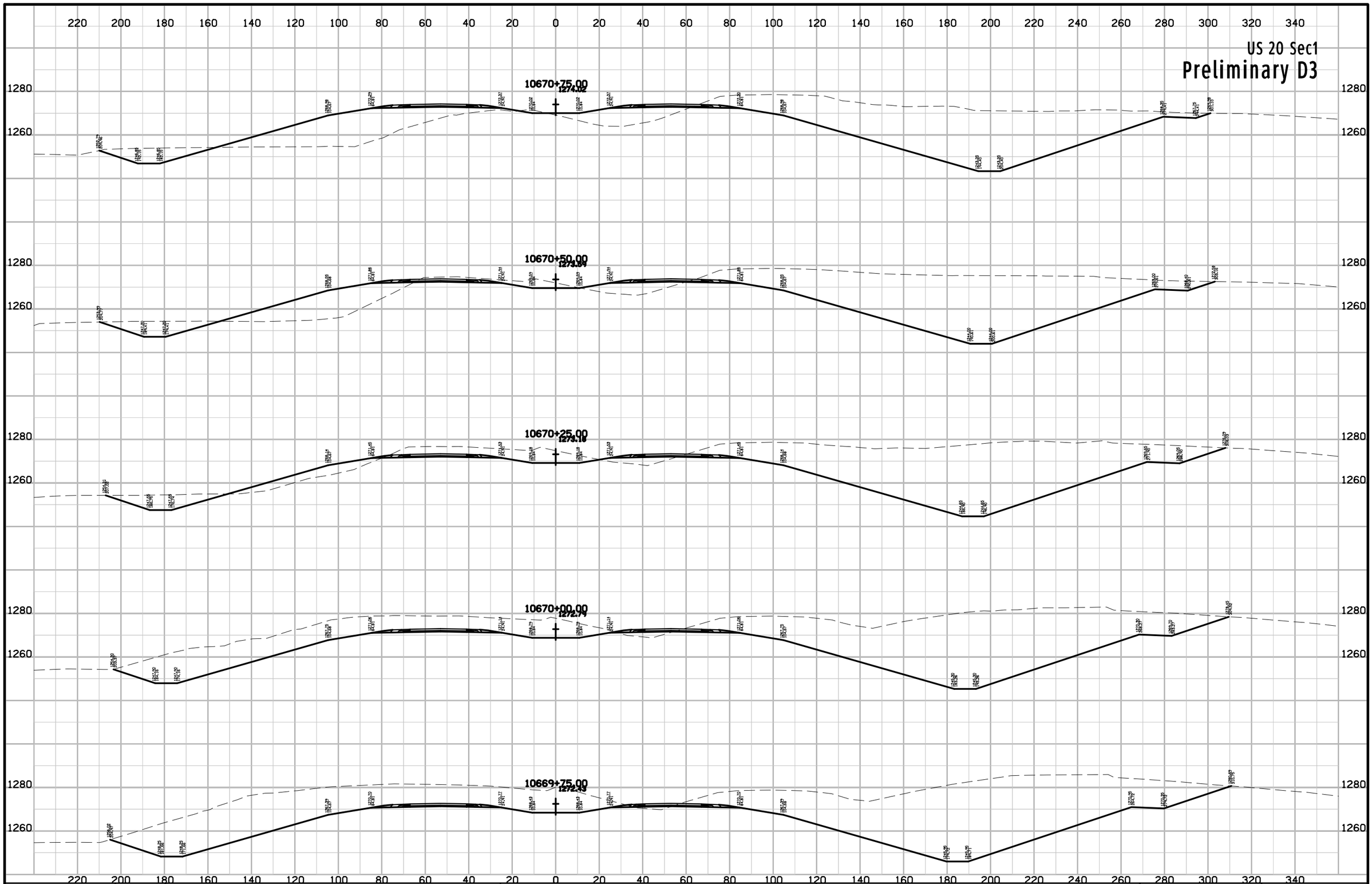


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.376

2:23:56 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

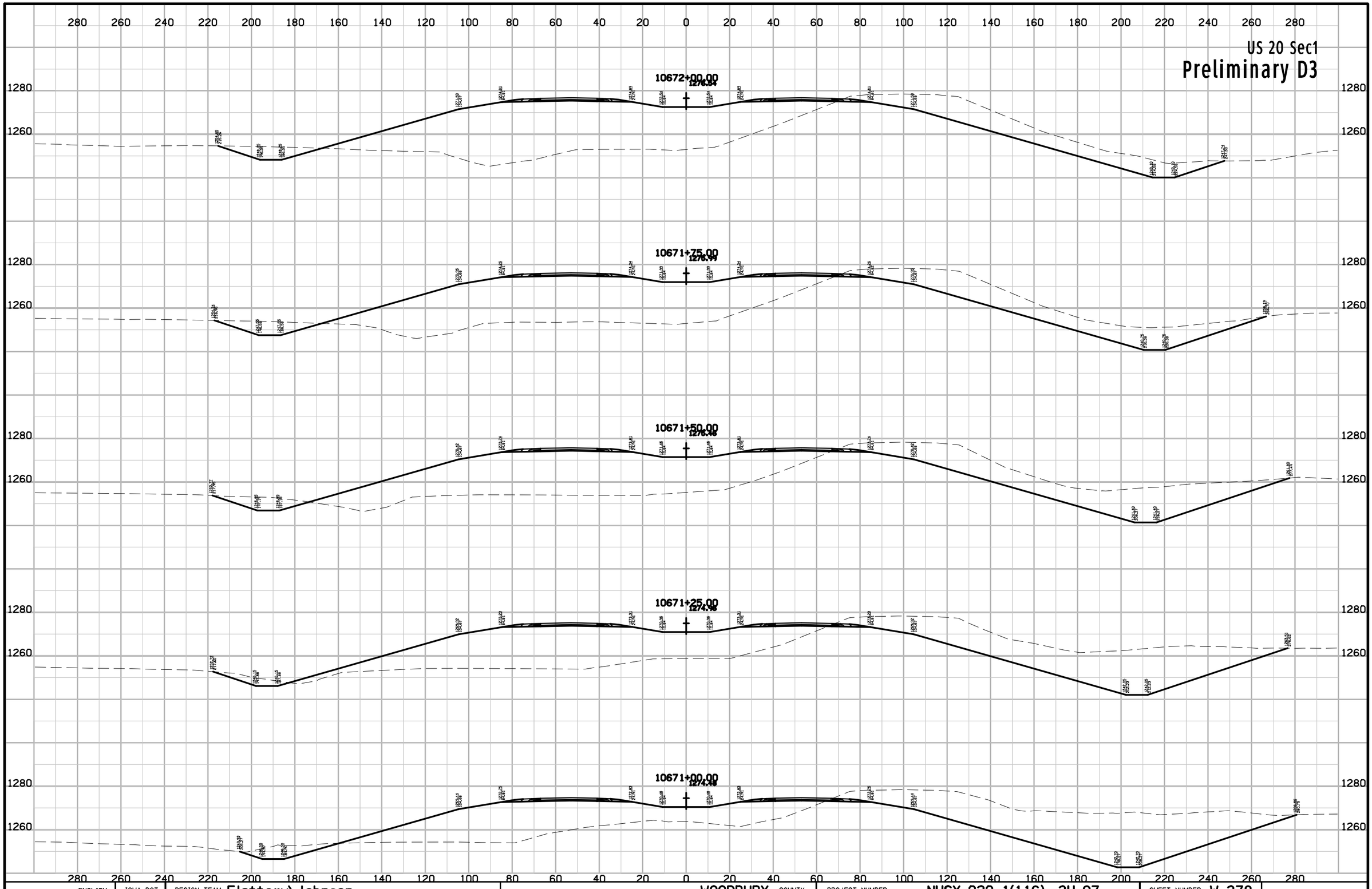


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY	COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.377

2:23:56 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

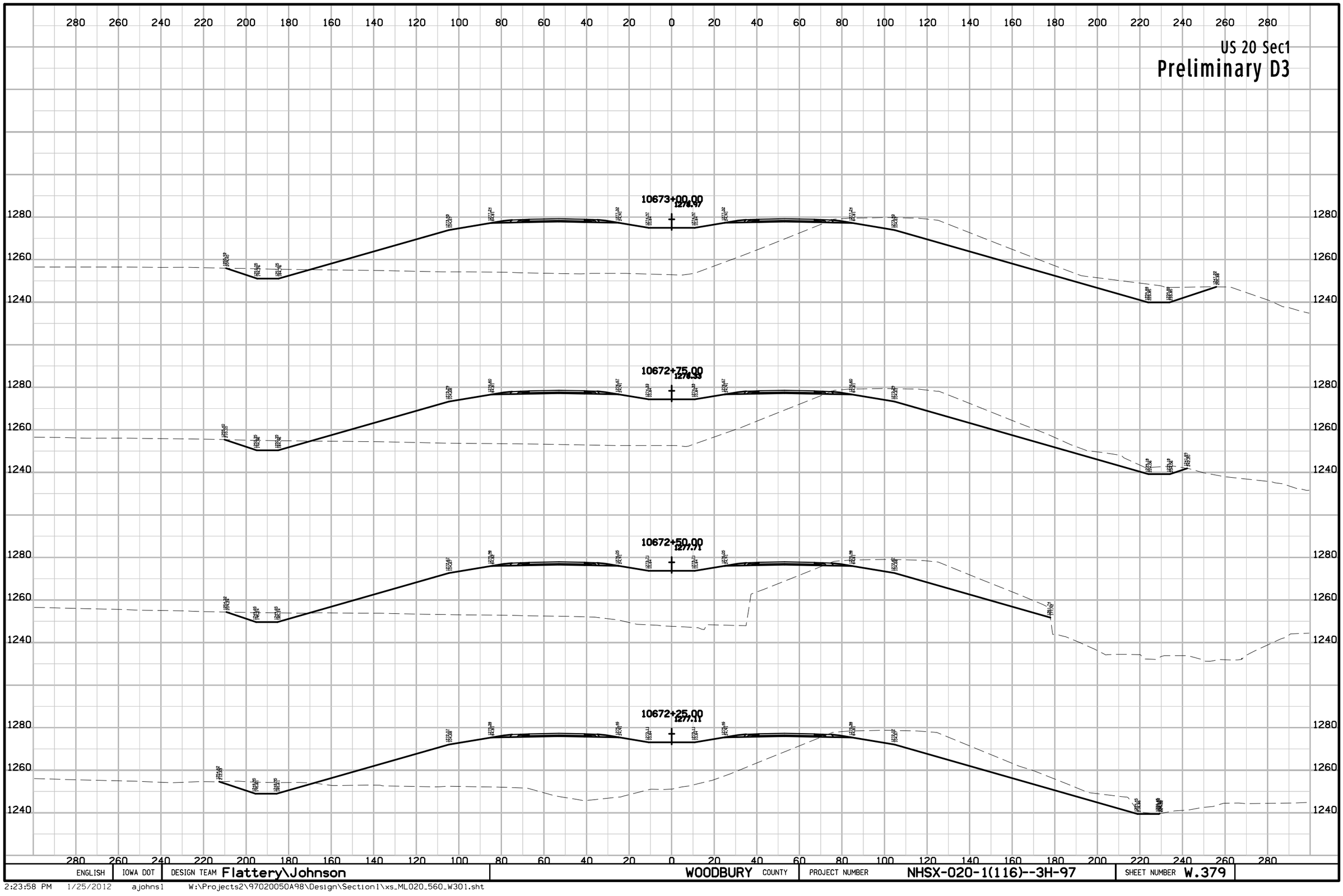


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.378

2:23:57 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

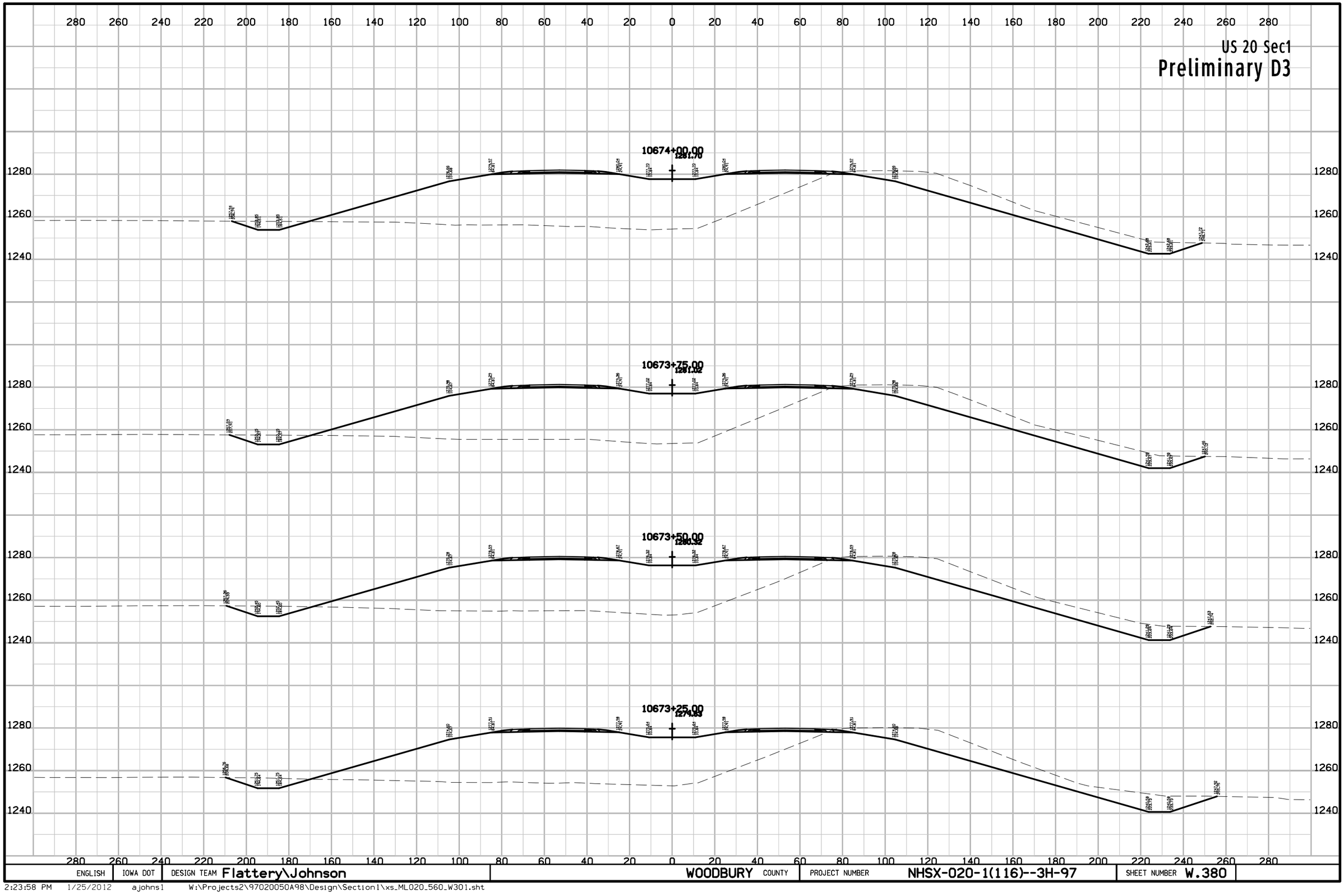


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.379

2:23:58 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

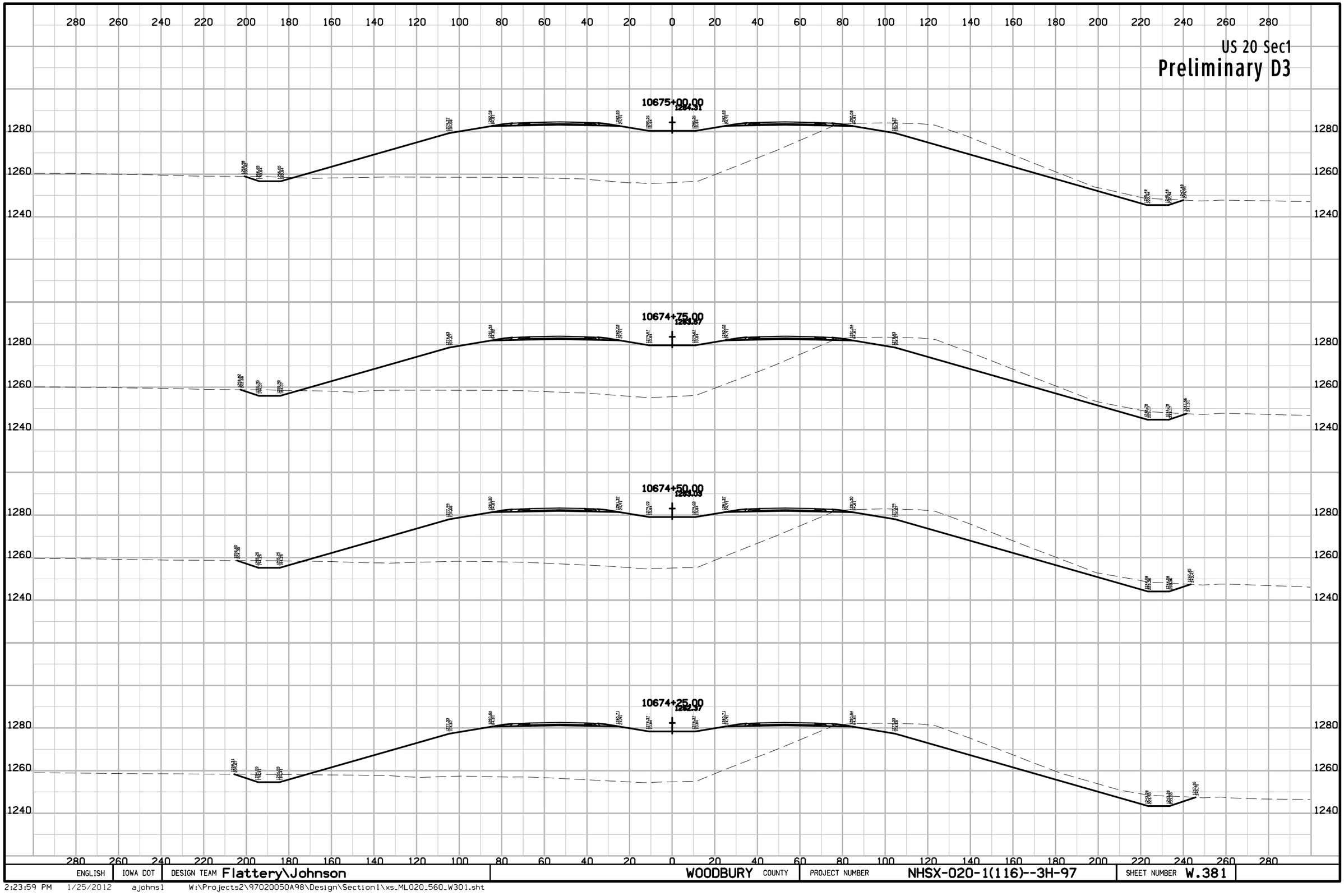


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.380

2:23:58 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

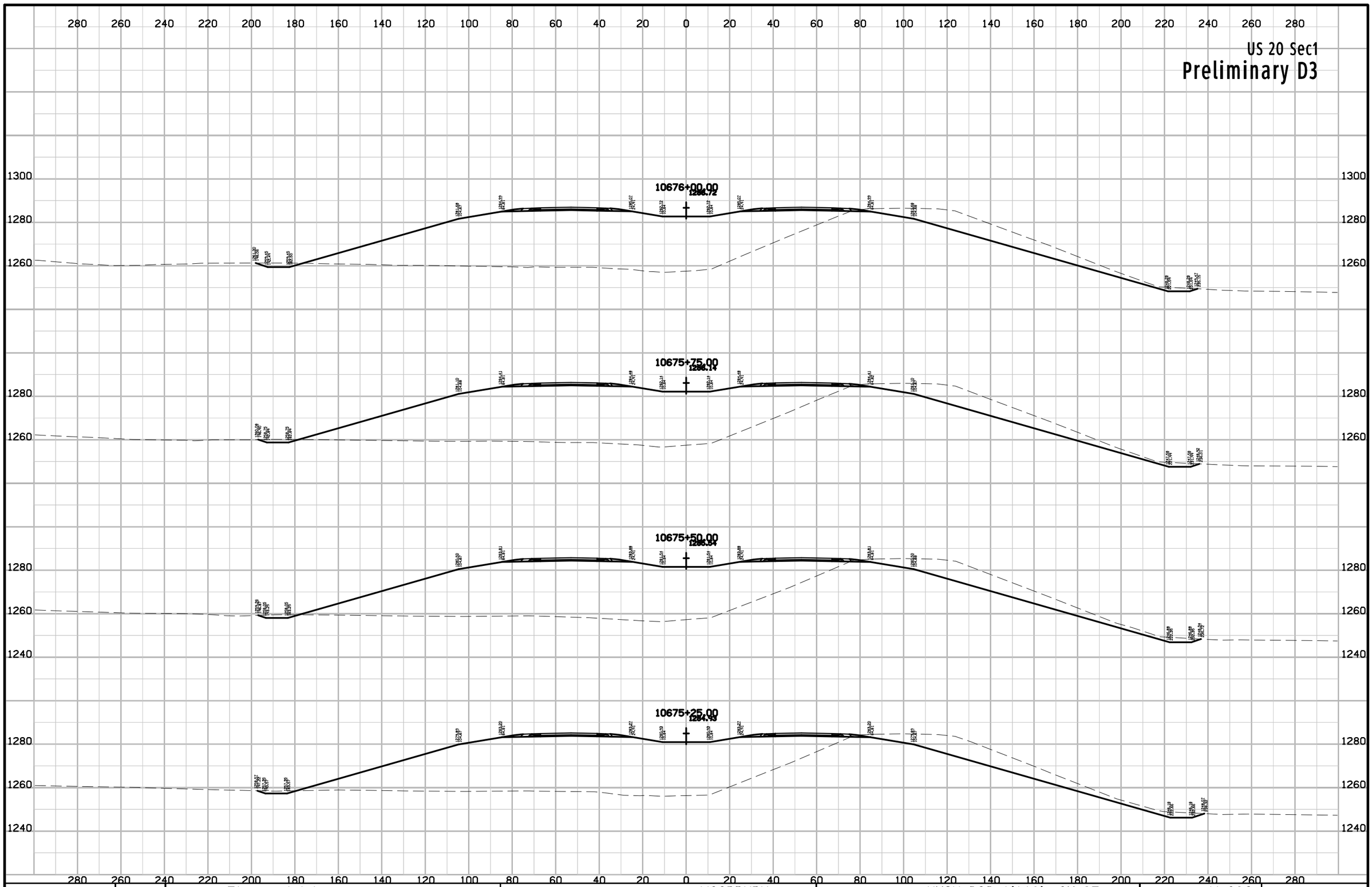


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.381

2:23:59 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

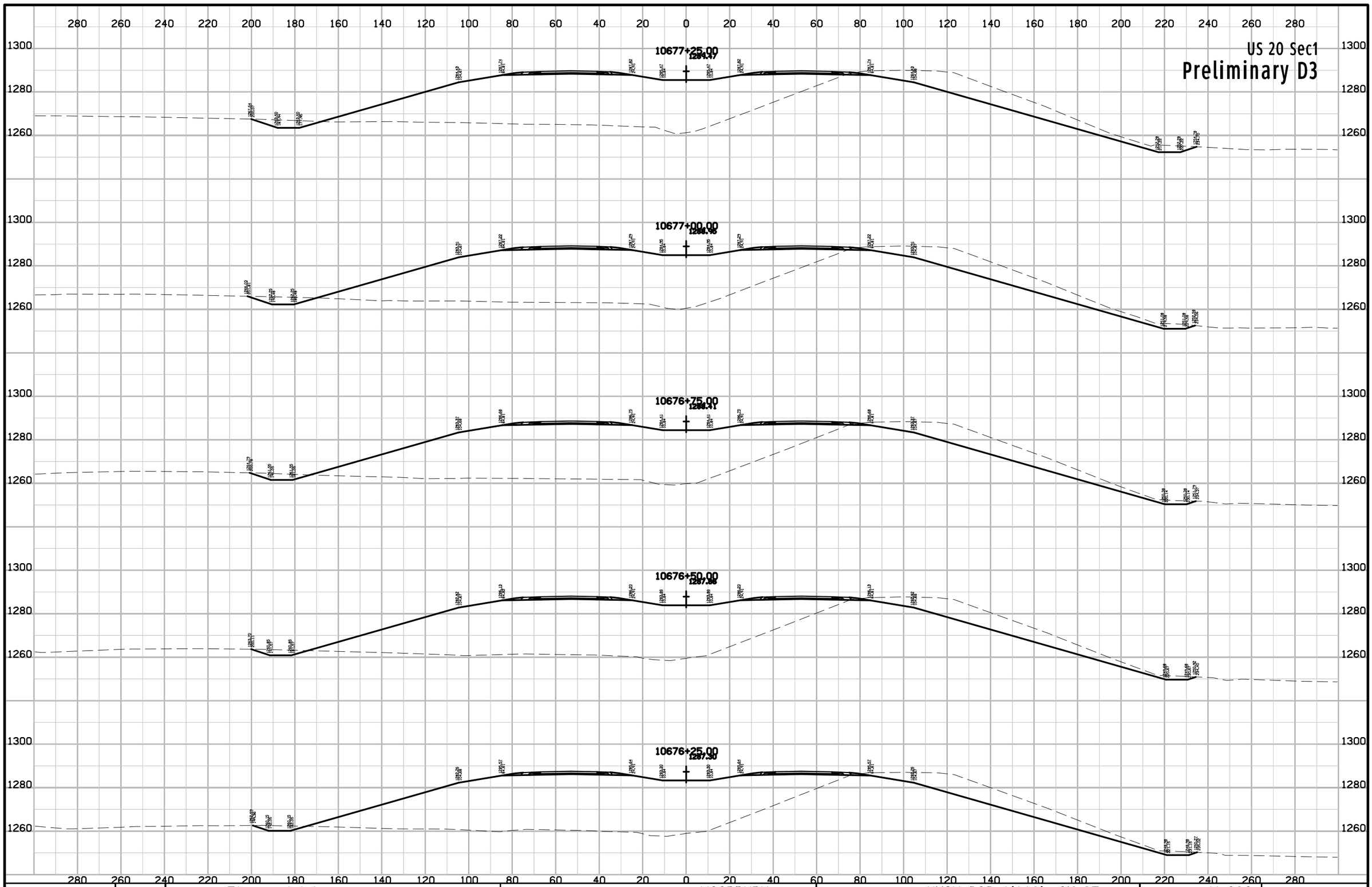


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.382

2:24:00 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

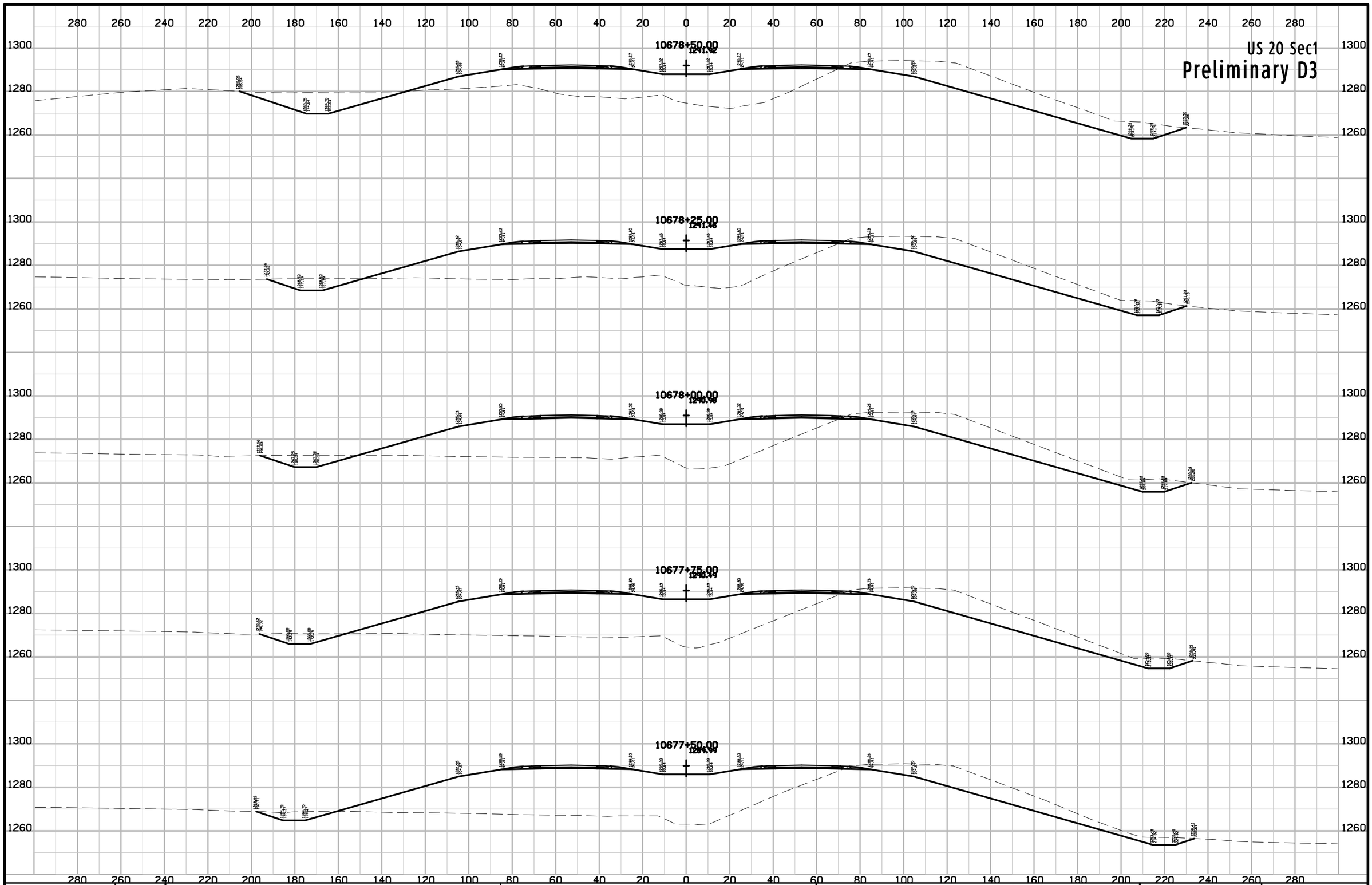


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.383	

2:24:01 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

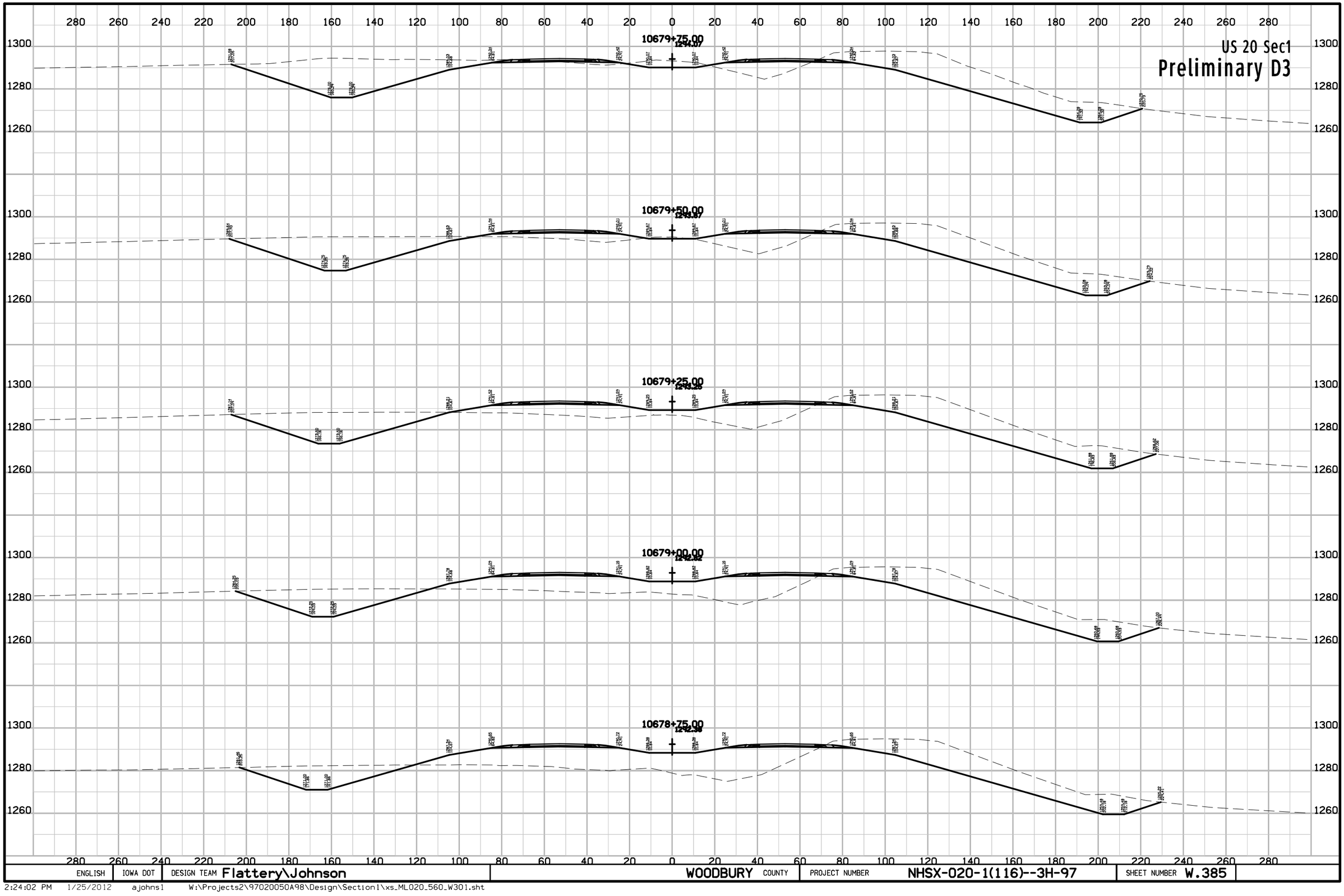


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.384	

2:24:01 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

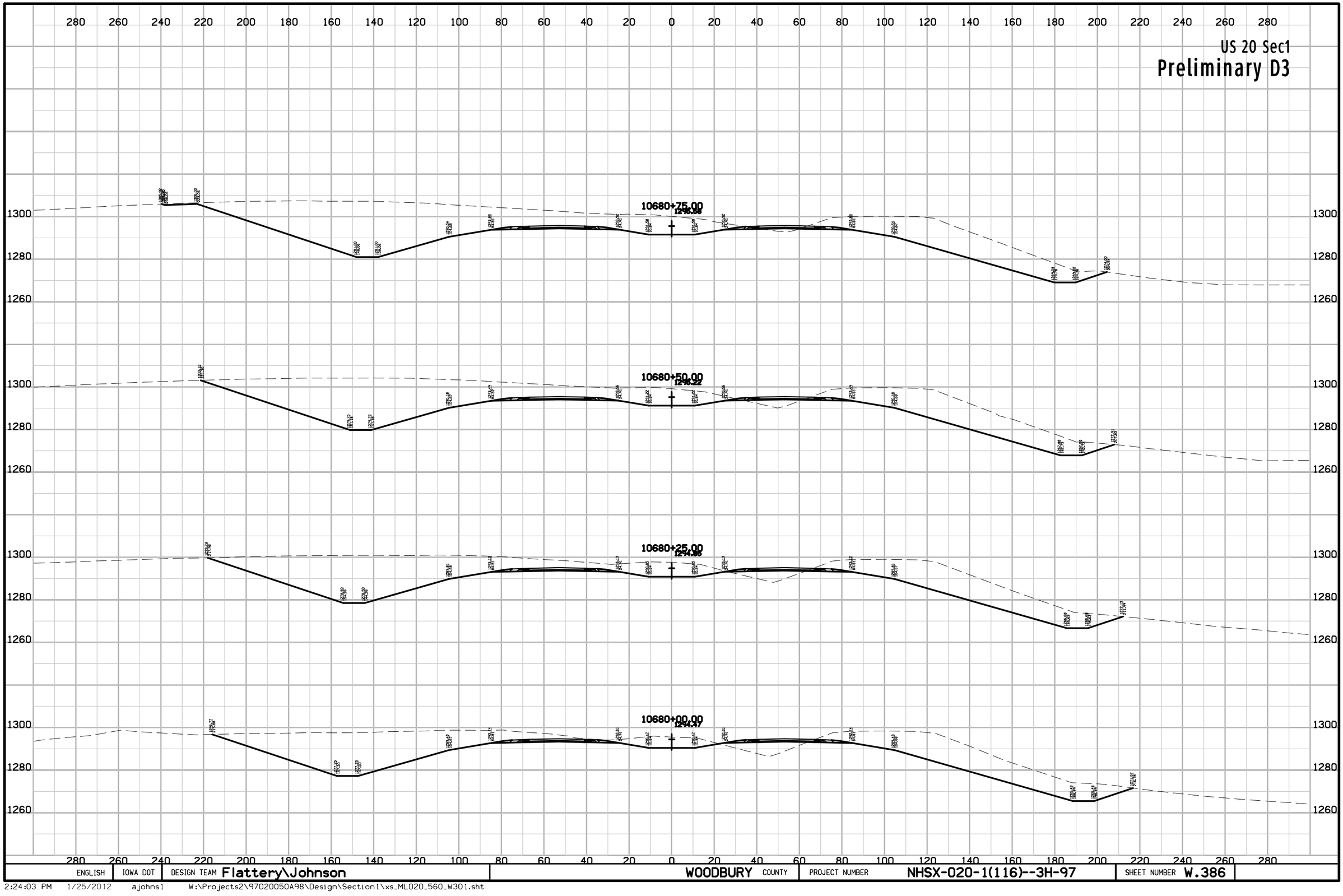


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.385

2:24:02 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

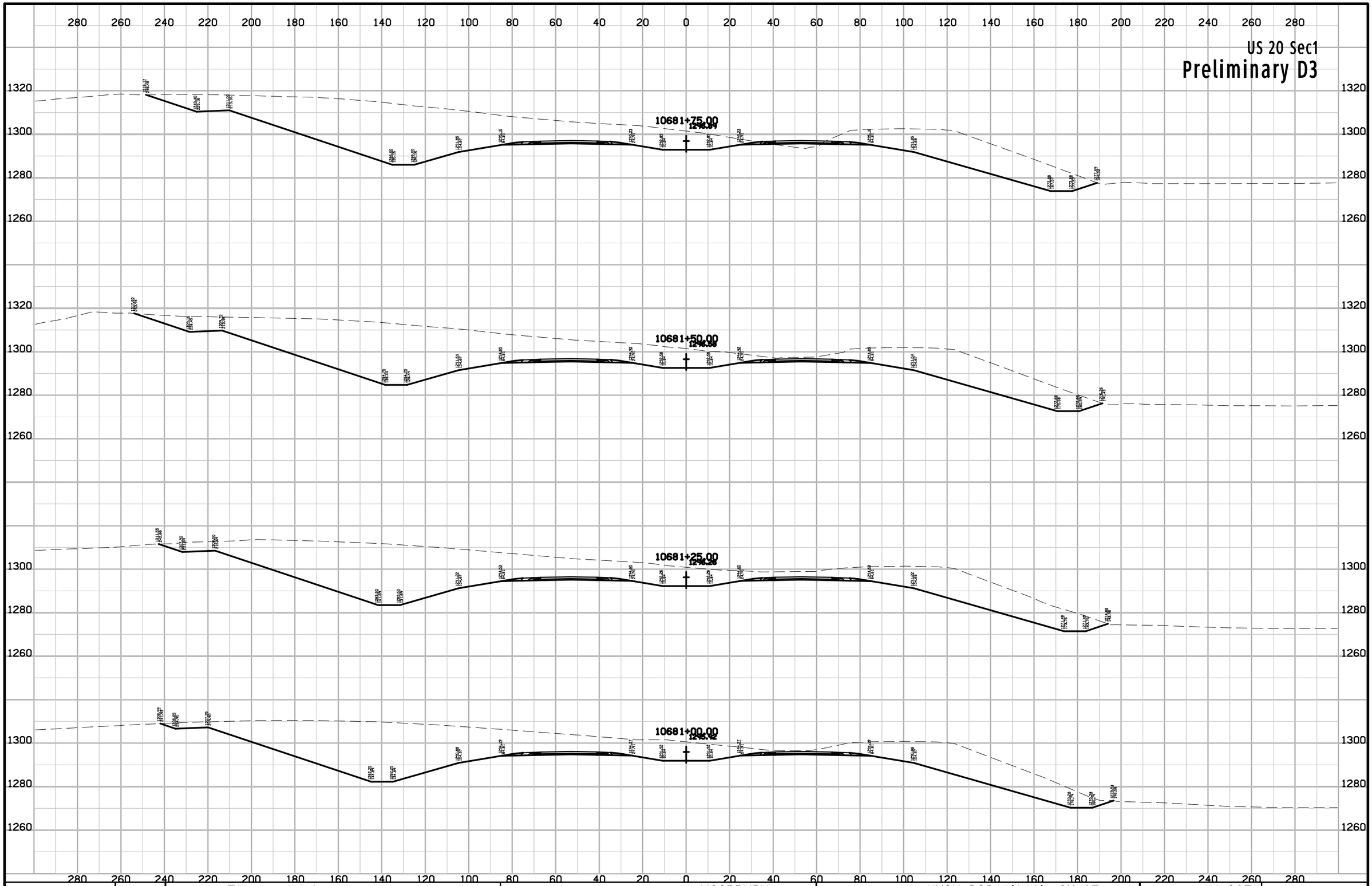


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.386

2:24:03 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

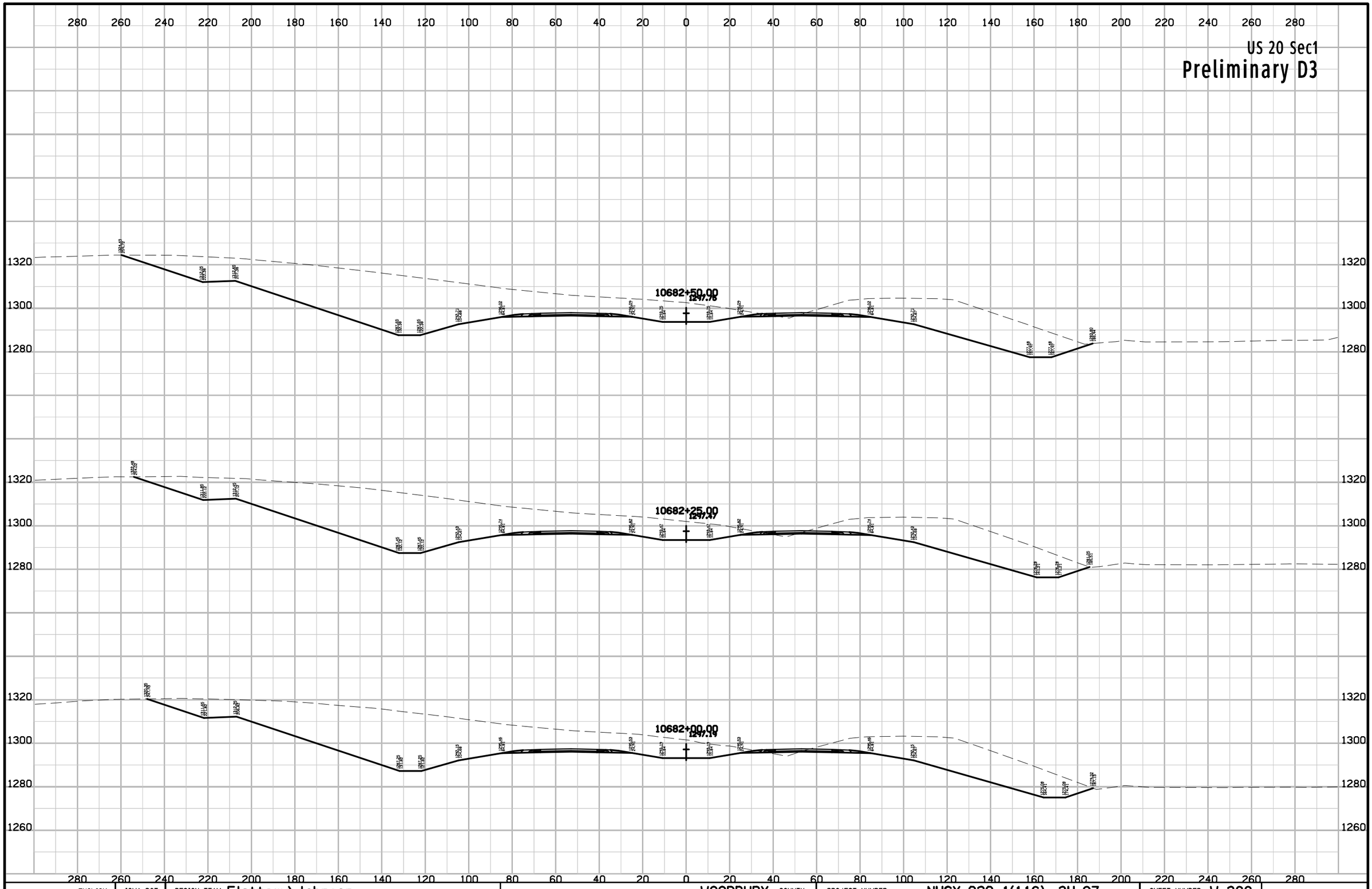


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.387

2:24:04 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

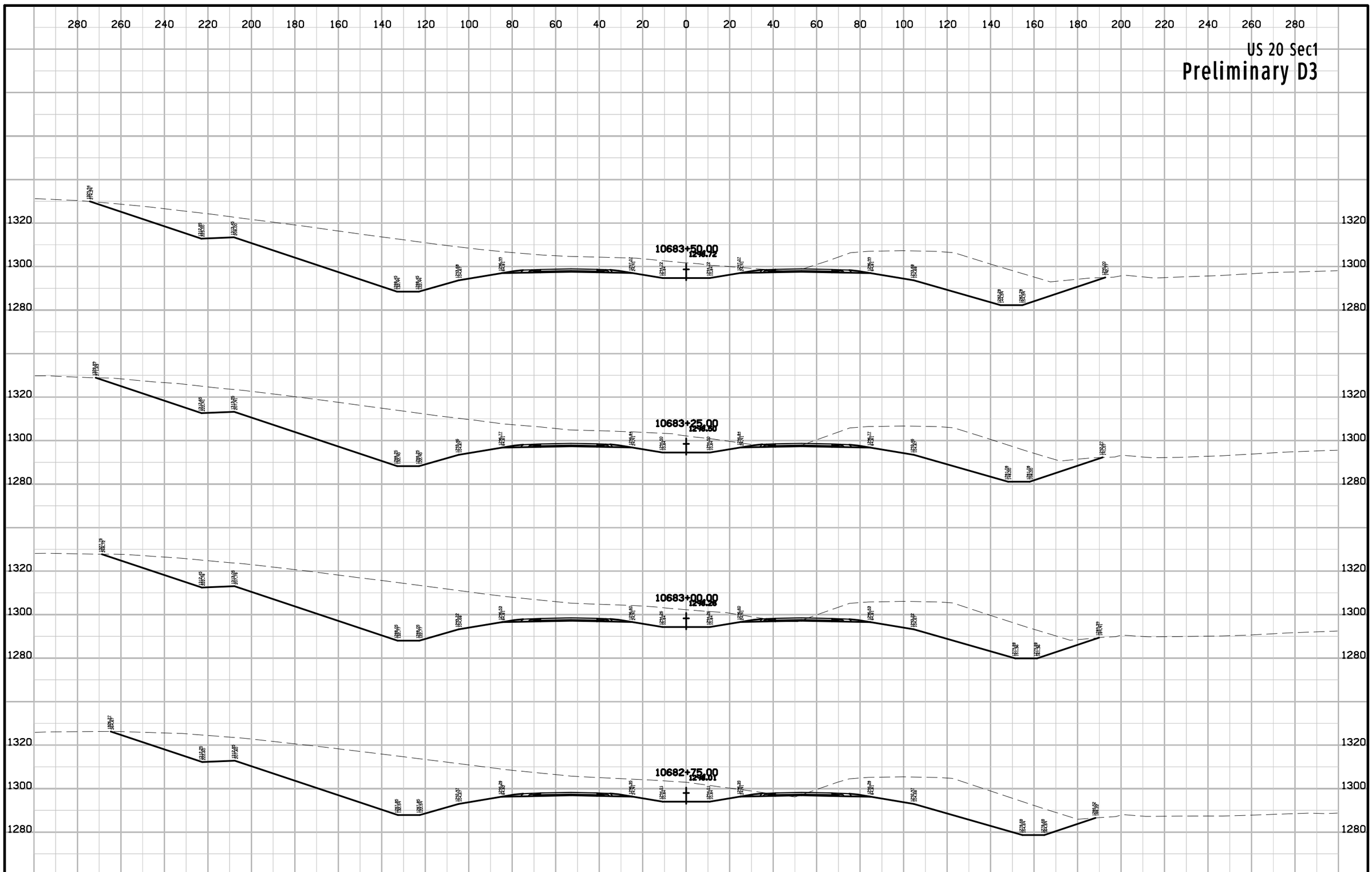


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.388

2:24:04 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

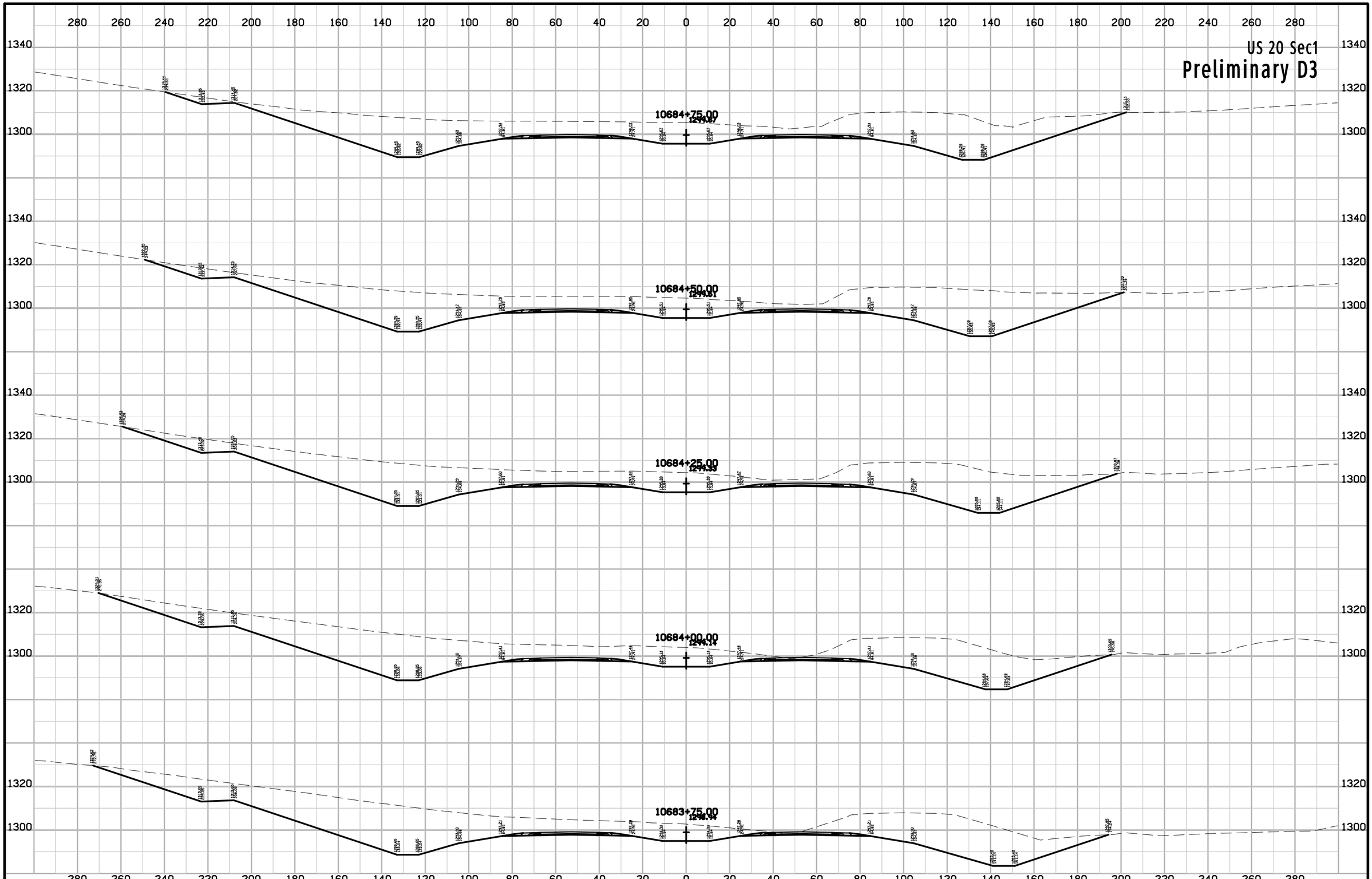


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.389

2:24:05 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

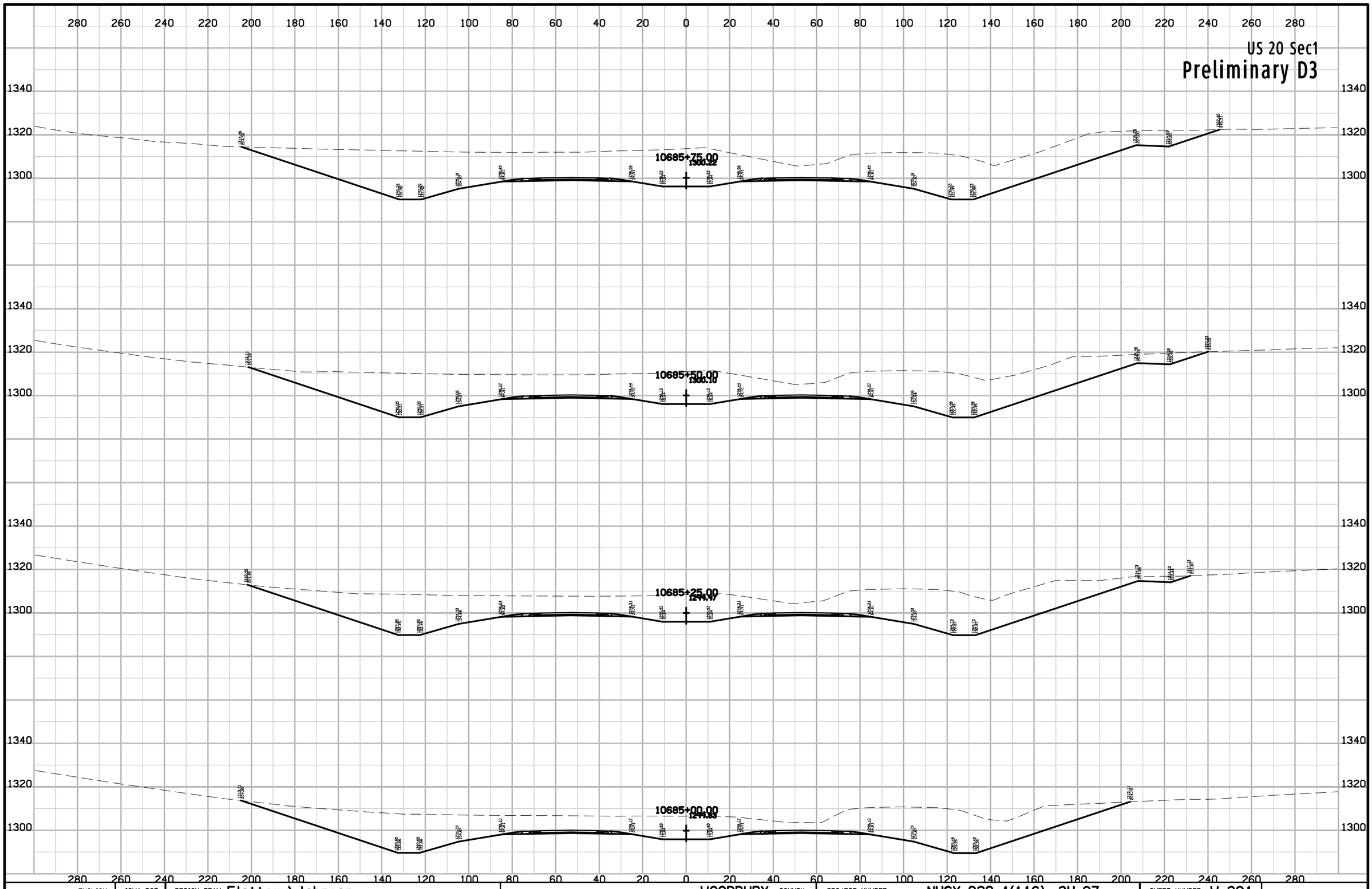


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.390

2:24:06 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

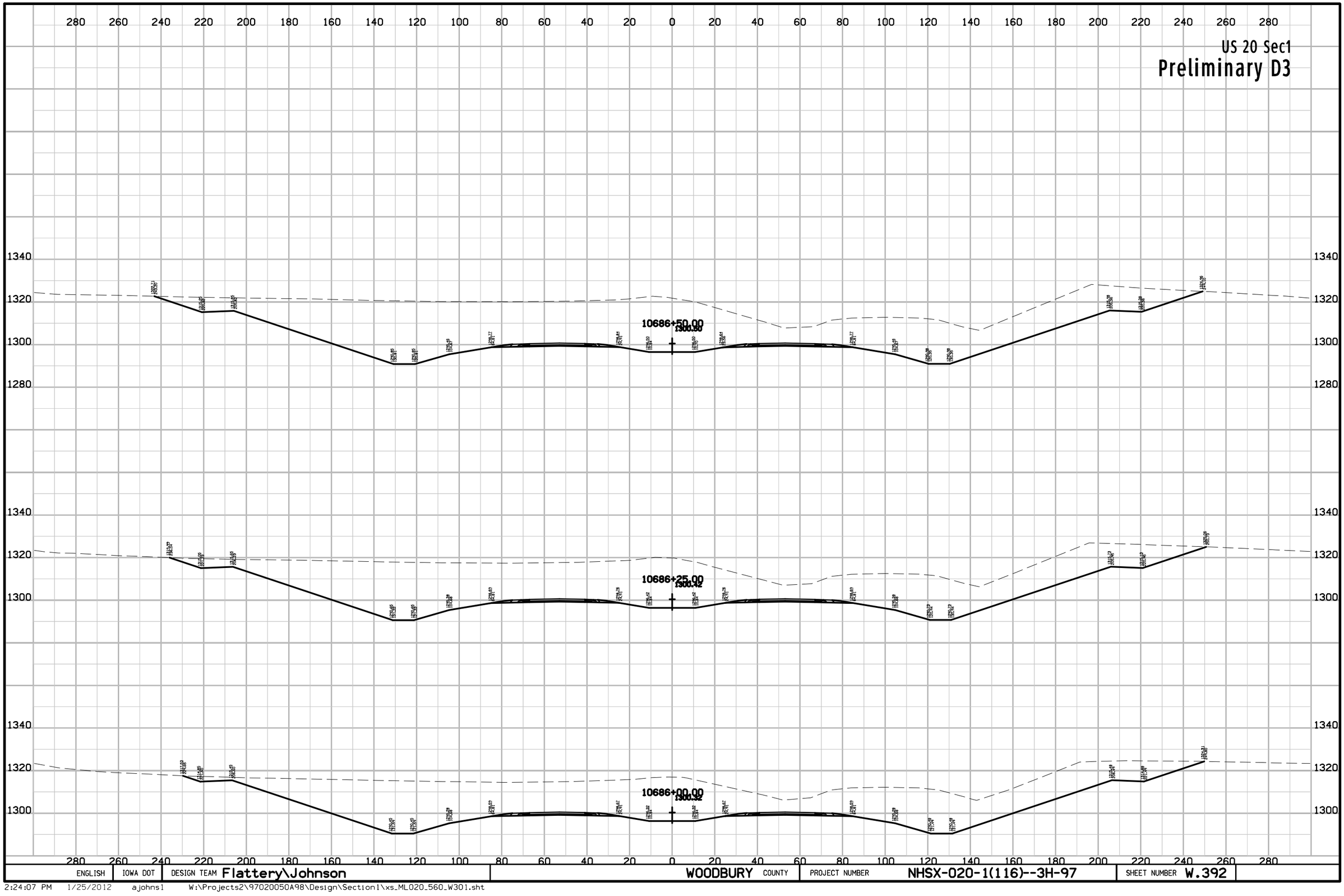


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.391

2:24:06 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

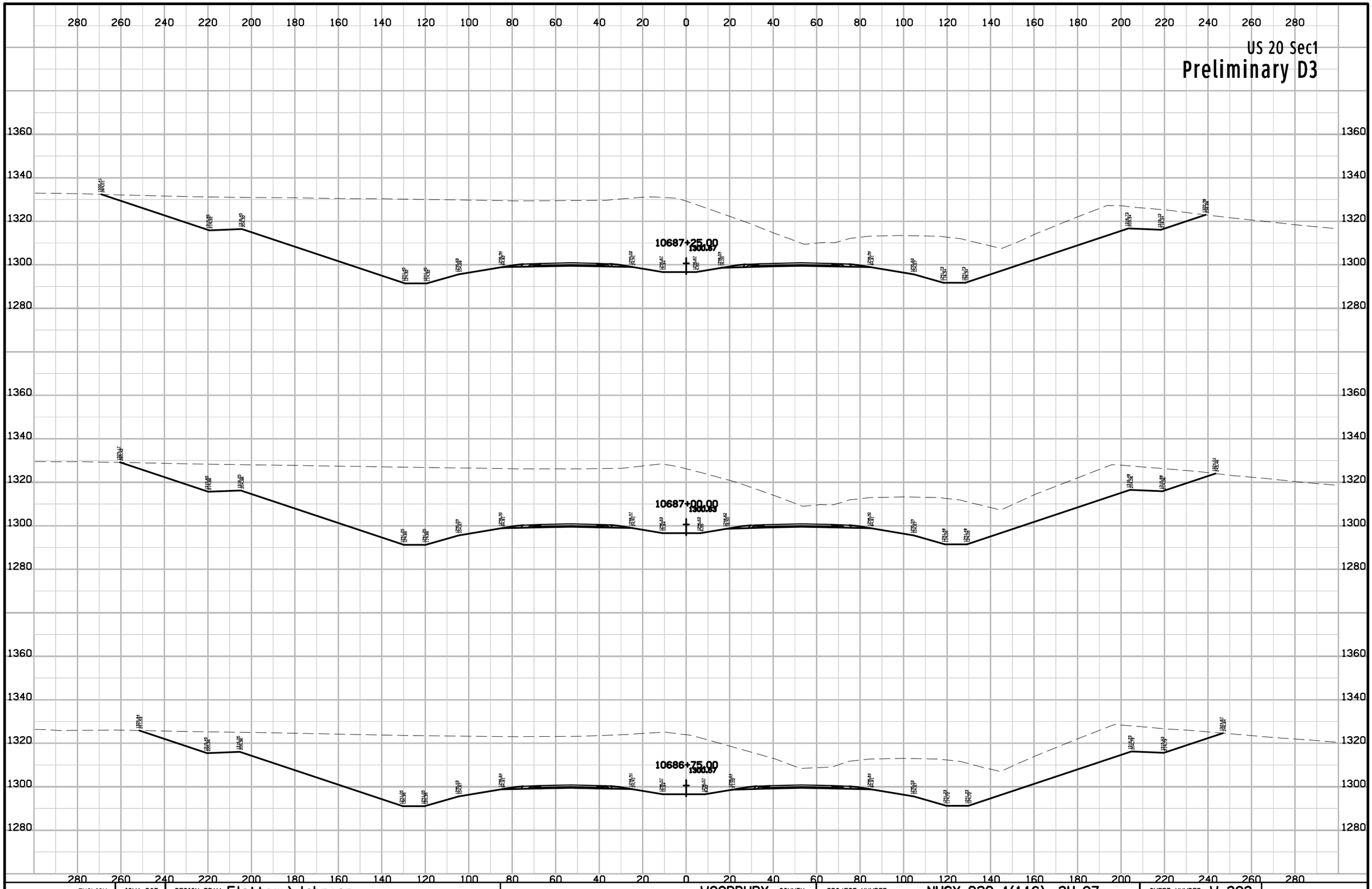


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.392	

2:24:07 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

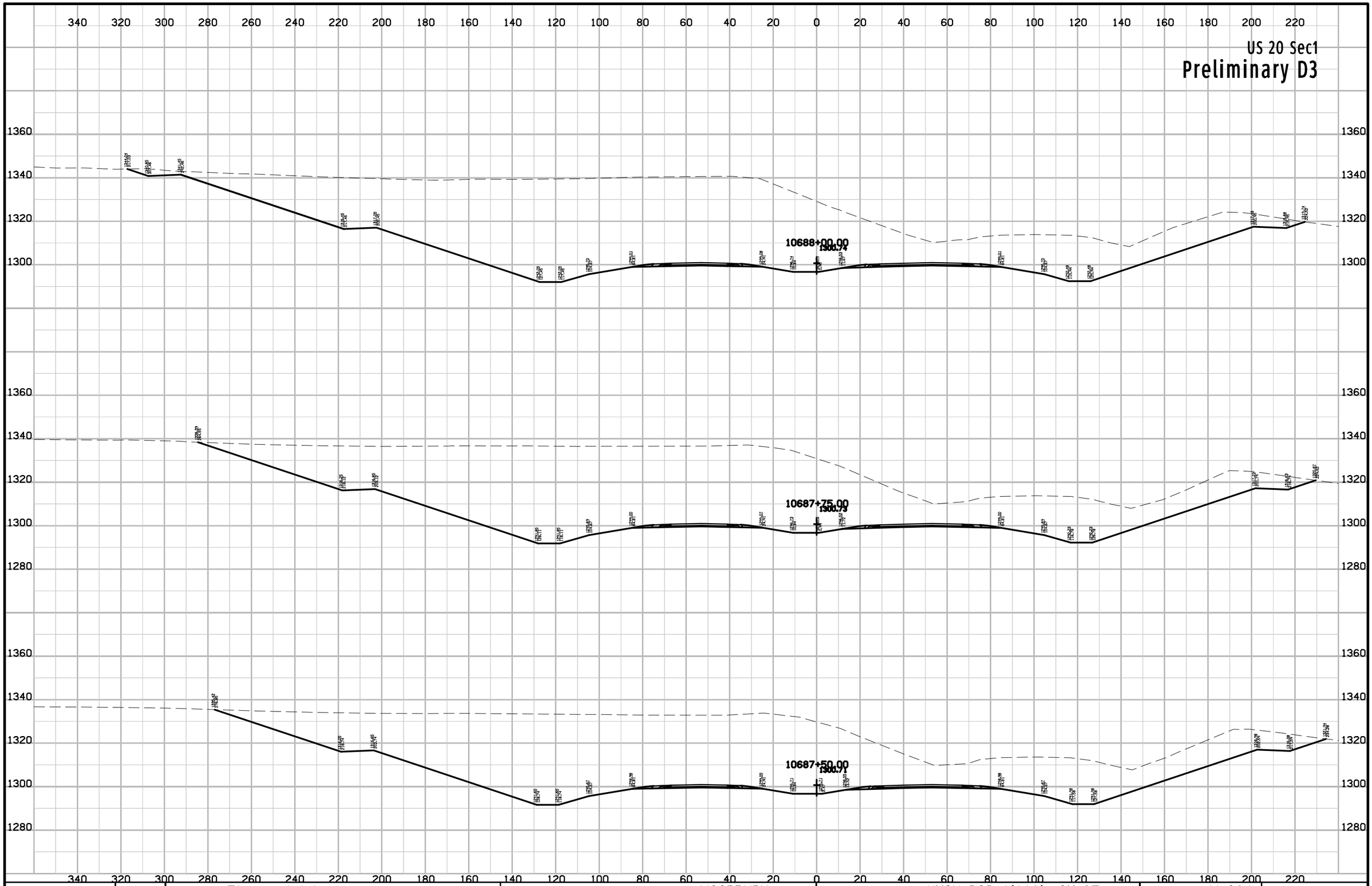


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.393

2:24:08 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.394

2:24:08 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

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
1300.70

10688+50.00
1300.72

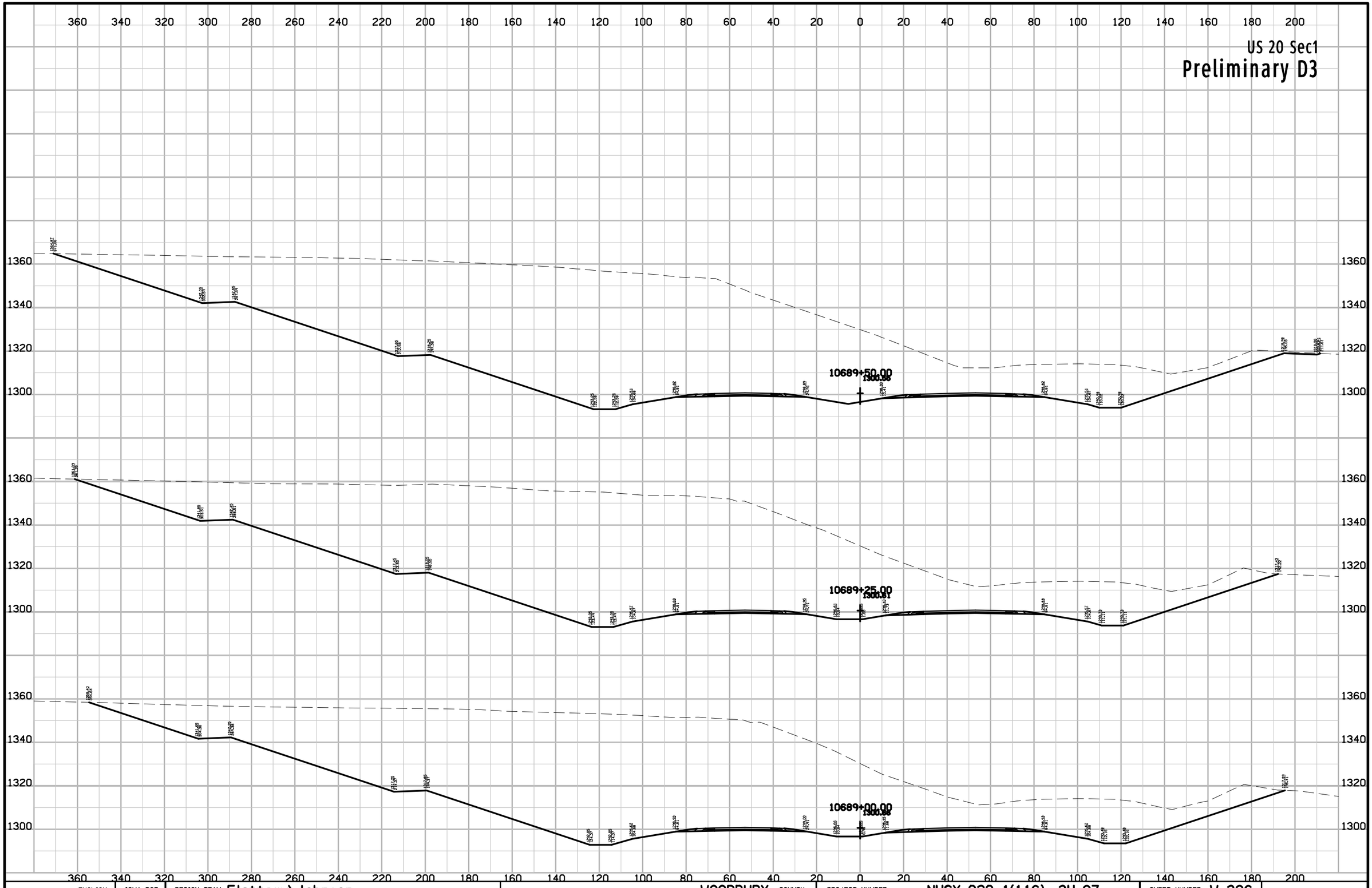
10688+25.00
1300.74

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.395

2:24:09 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

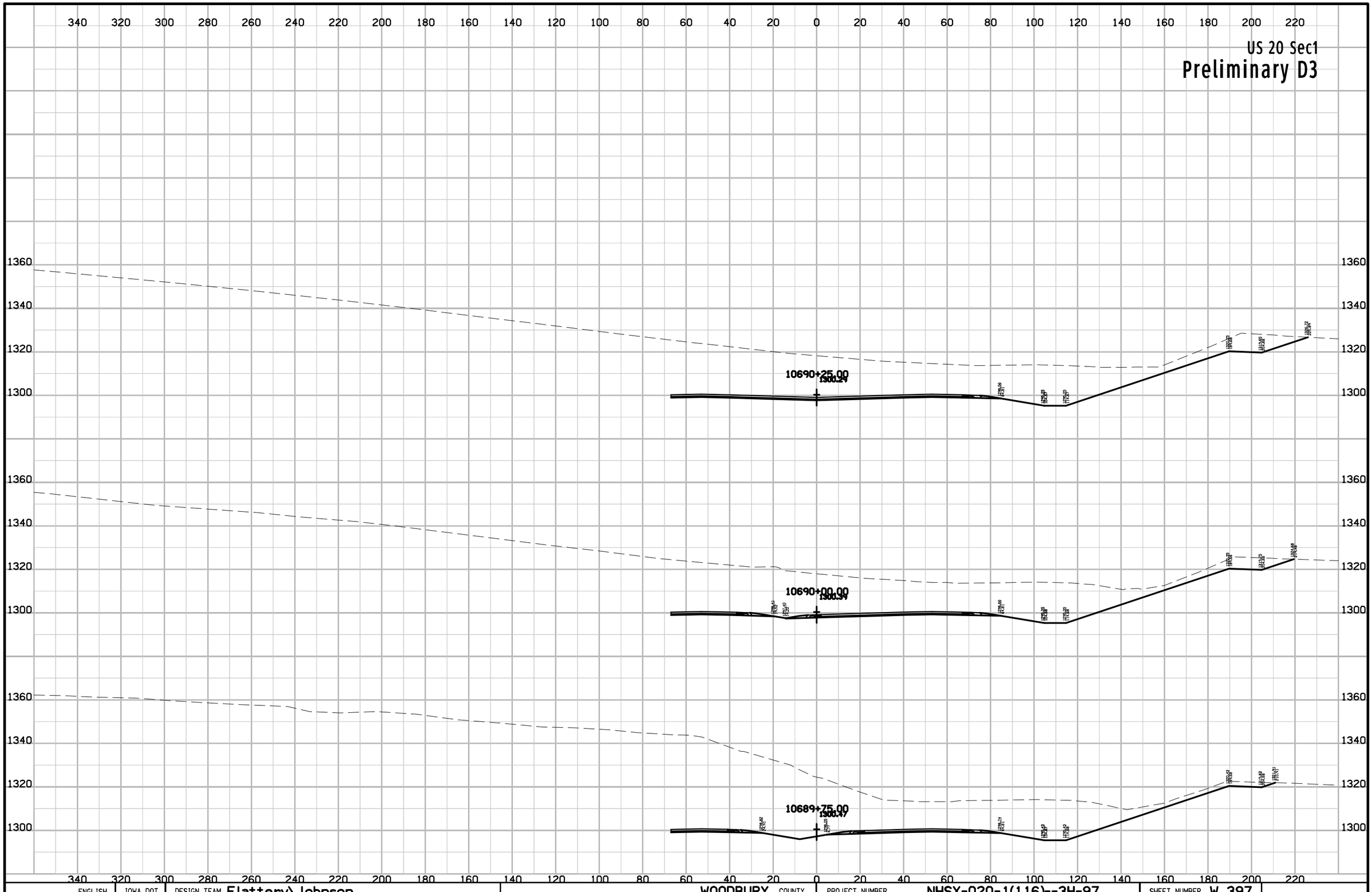


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.396

2:24:10 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

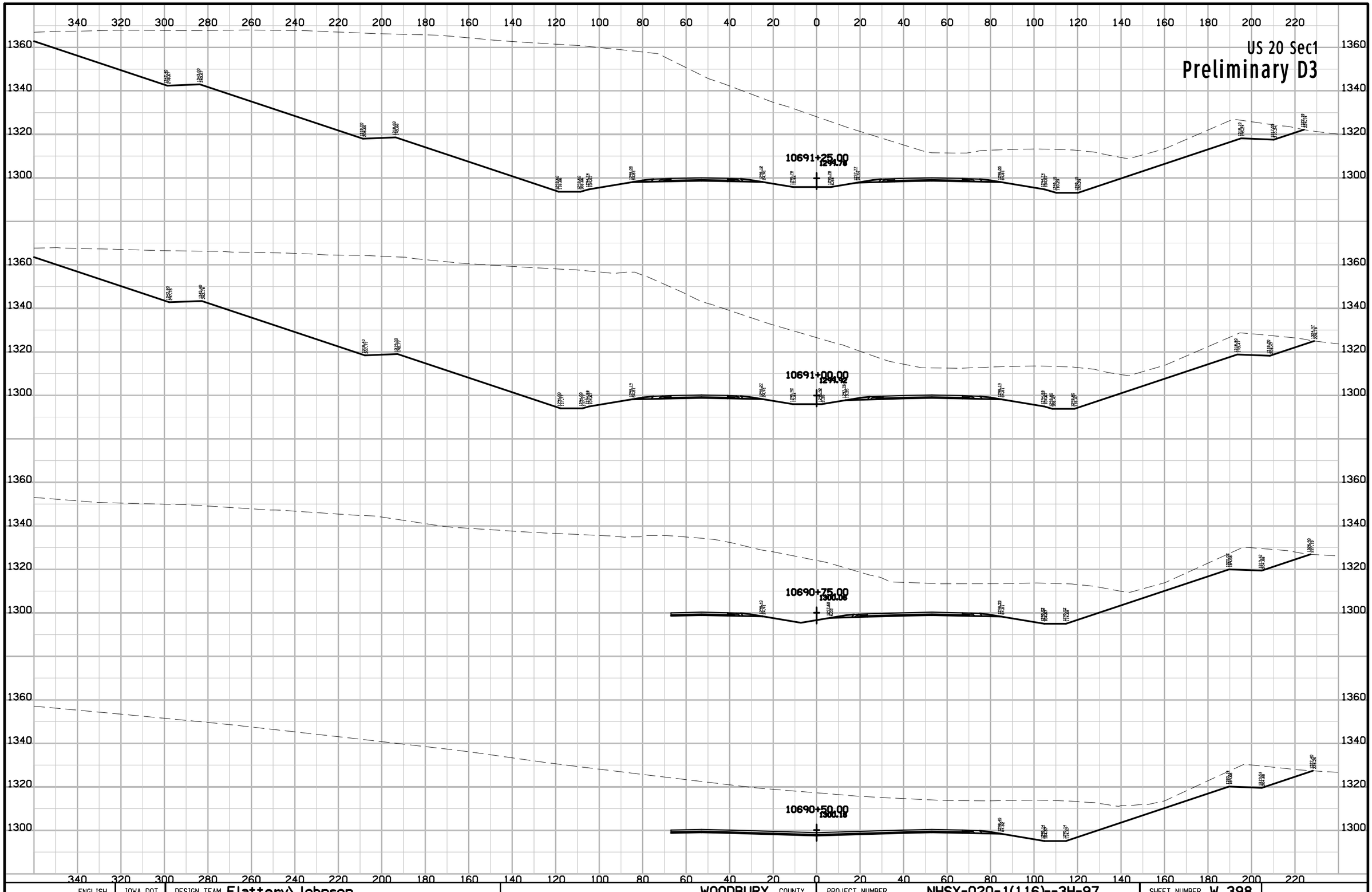


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.397

2:24:11 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

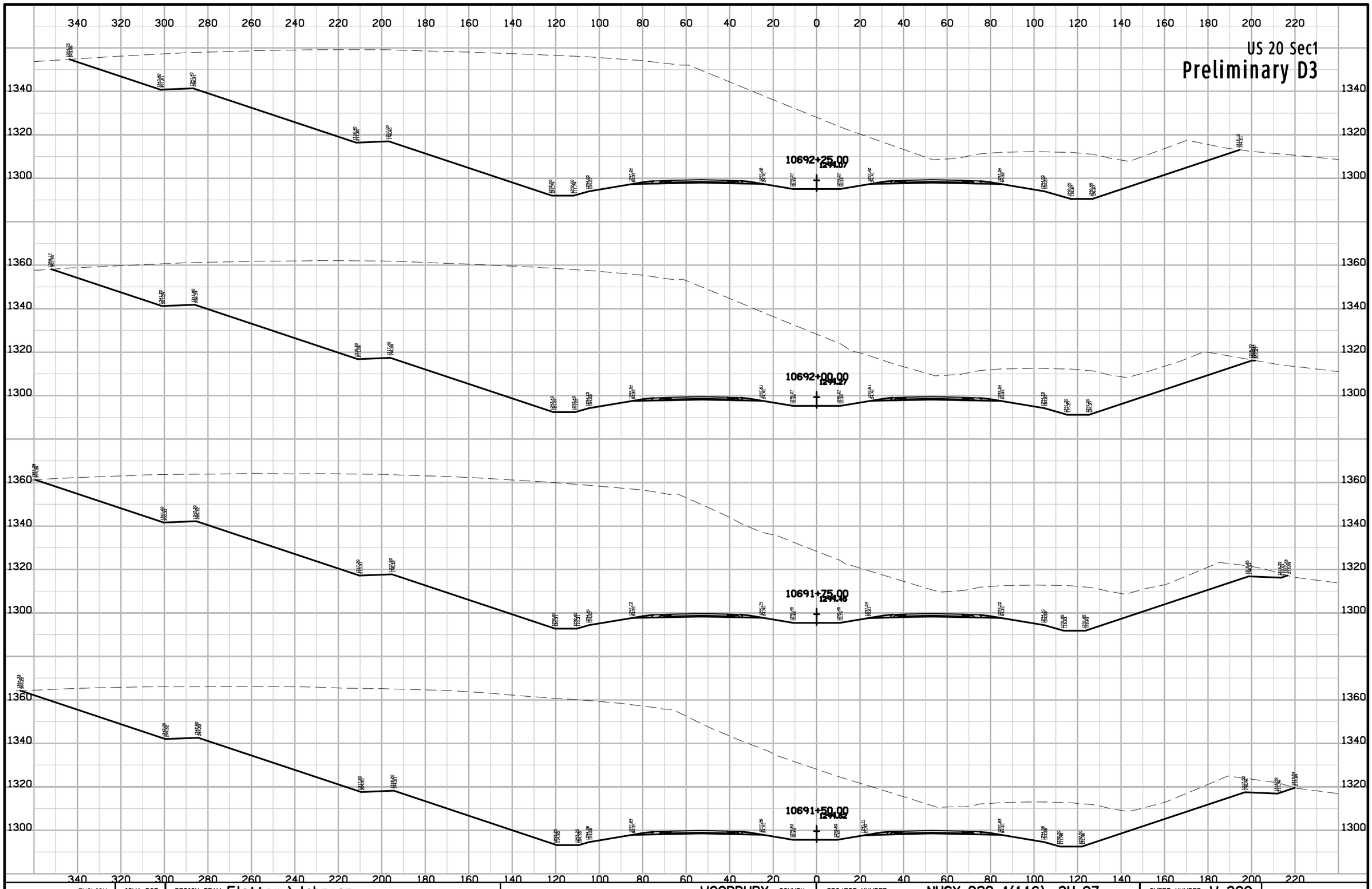


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.398

2:24:11 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

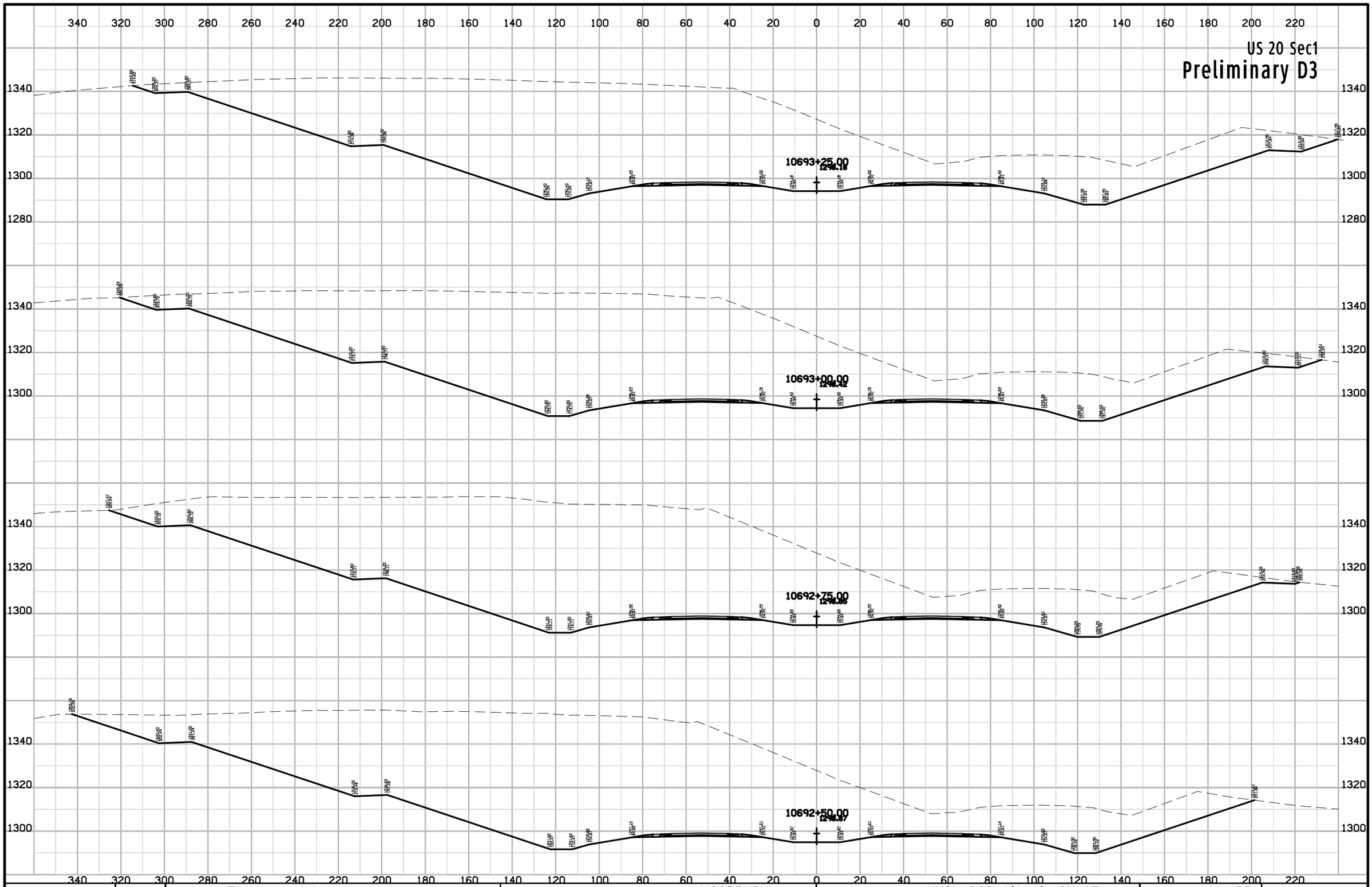


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.399

2:24:12 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

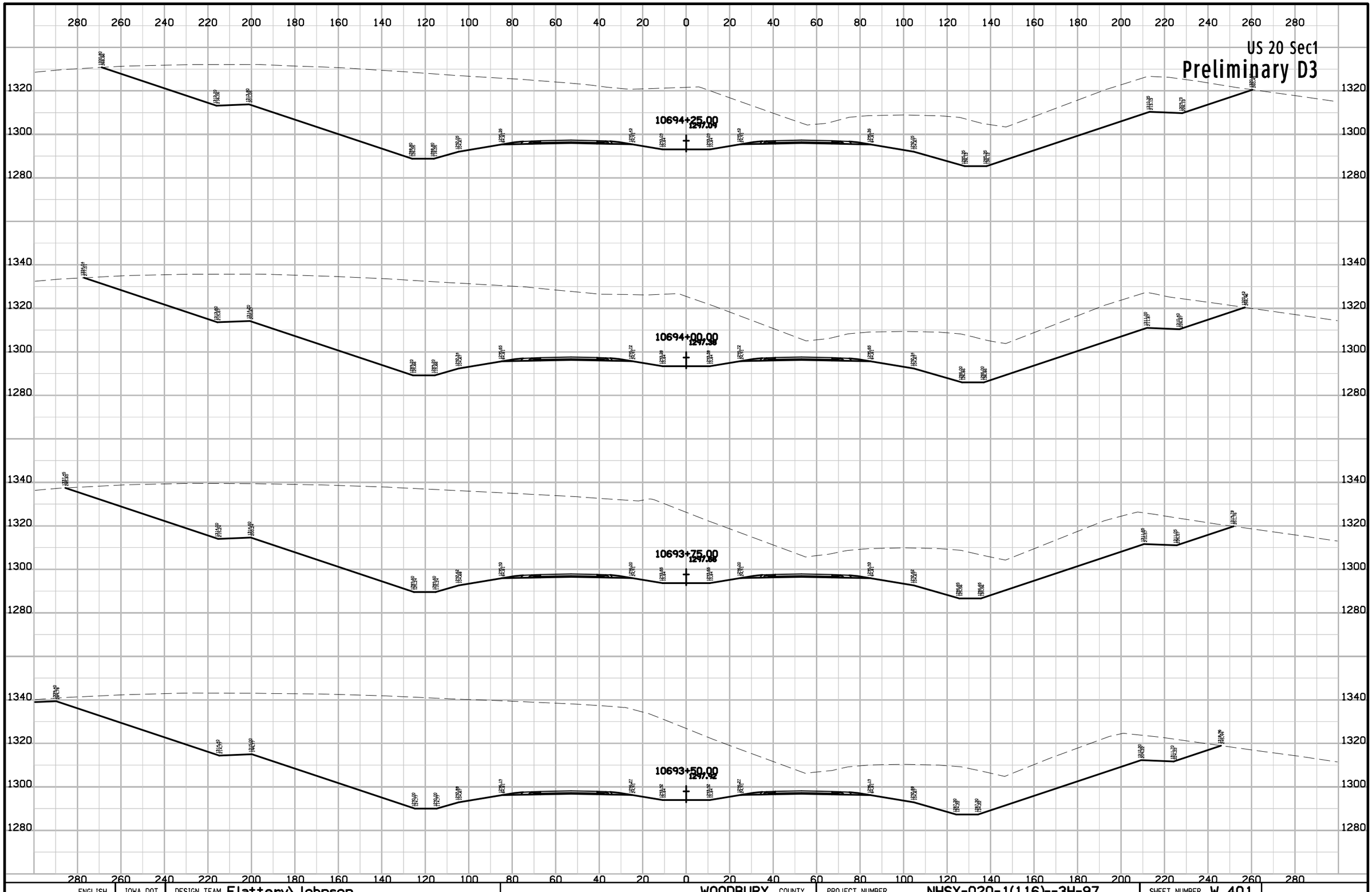


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.400

2:24:13 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W301.sht

US 20 Sec1

Preliminary D3

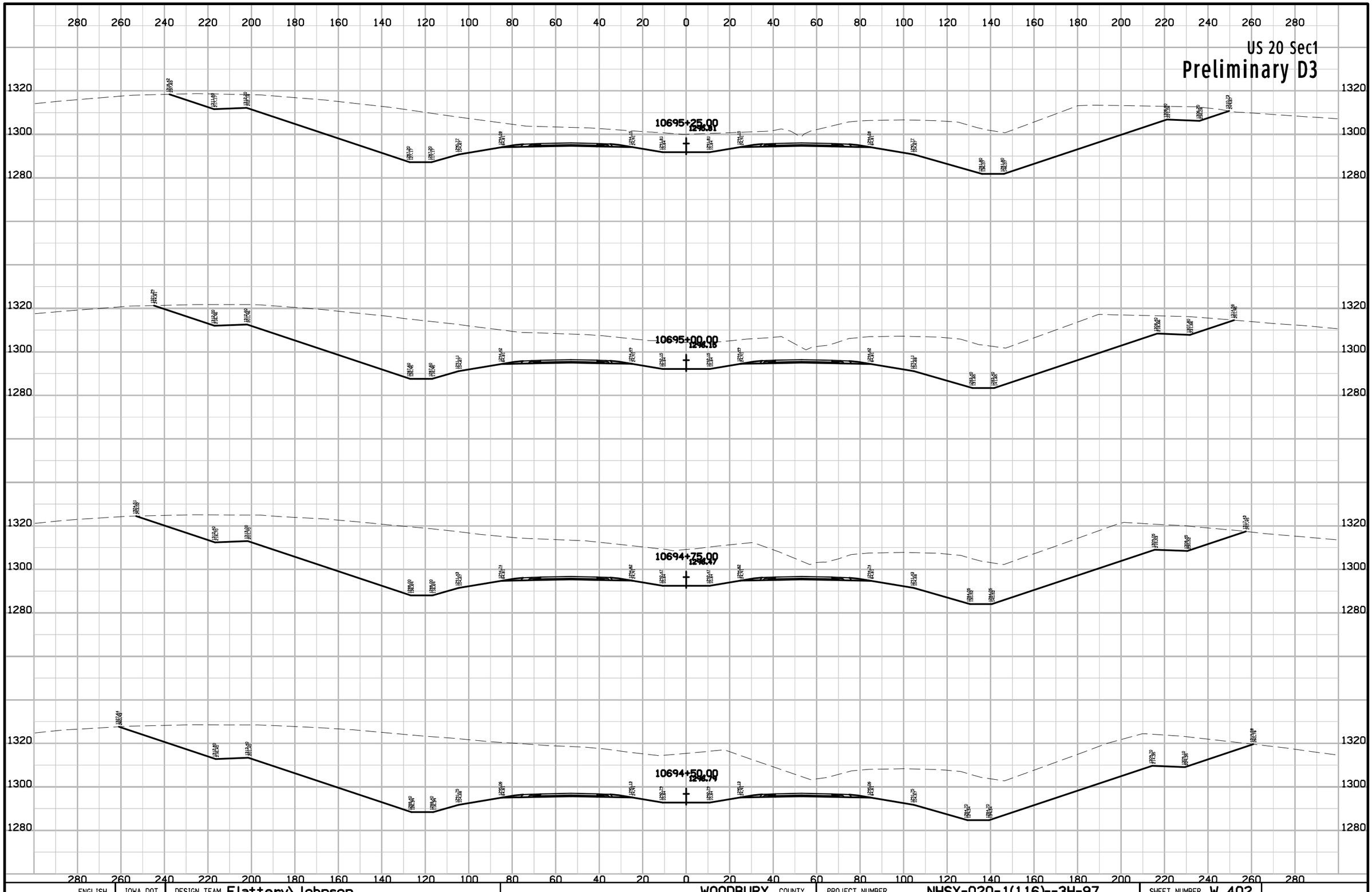


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.401

2:25:13 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

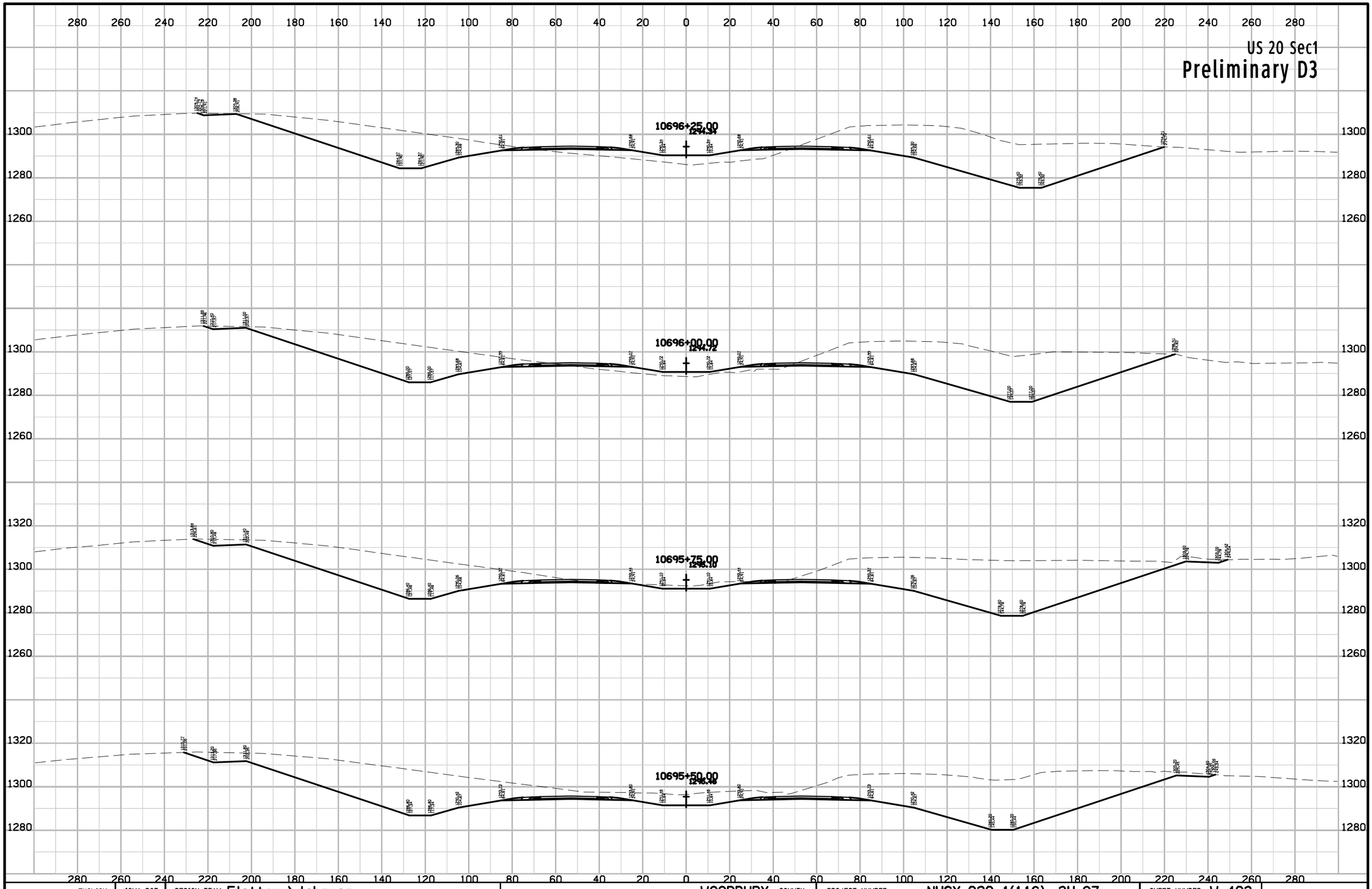


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.402

2:25:13 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

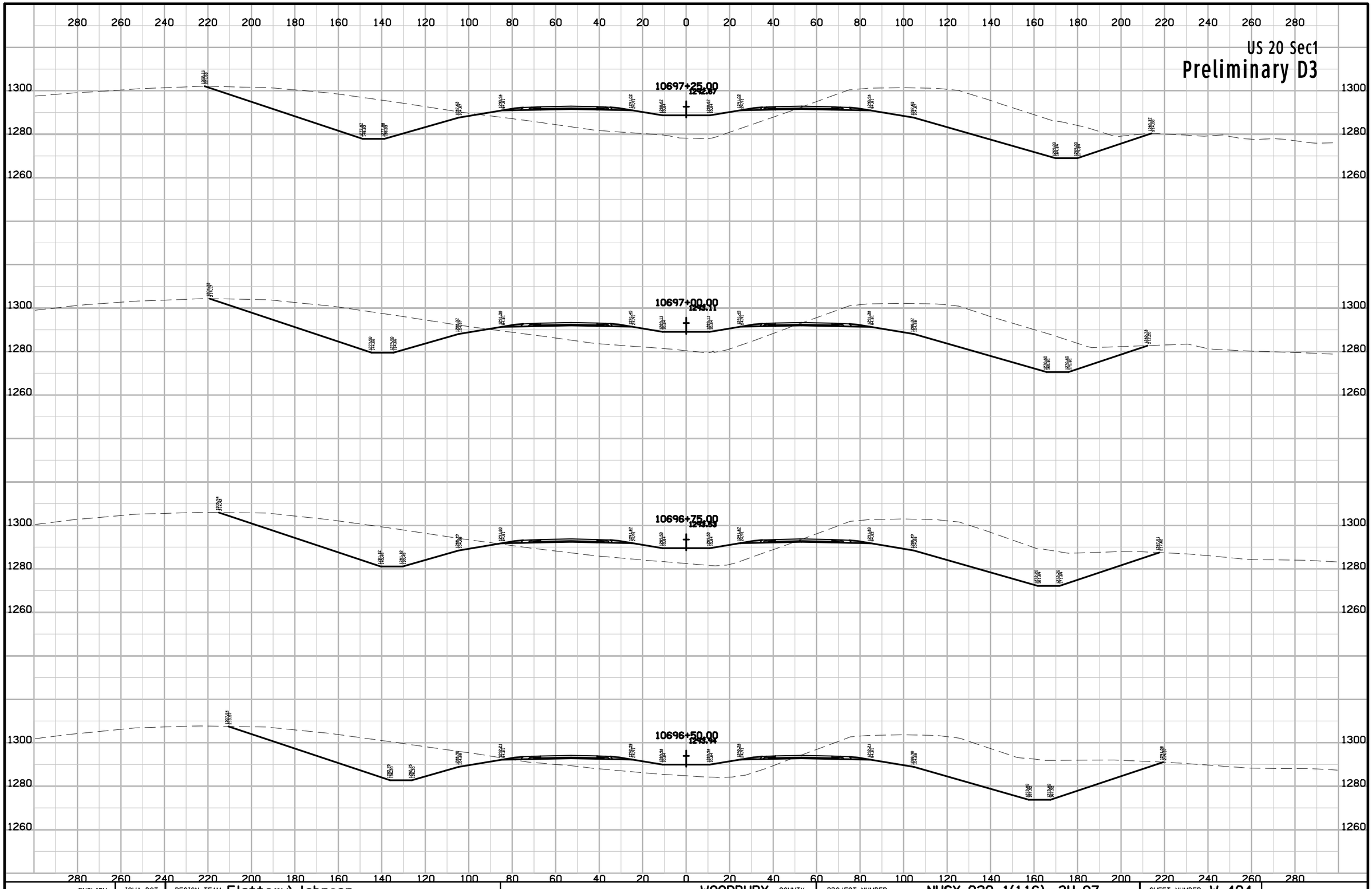


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.403

2:25:14 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

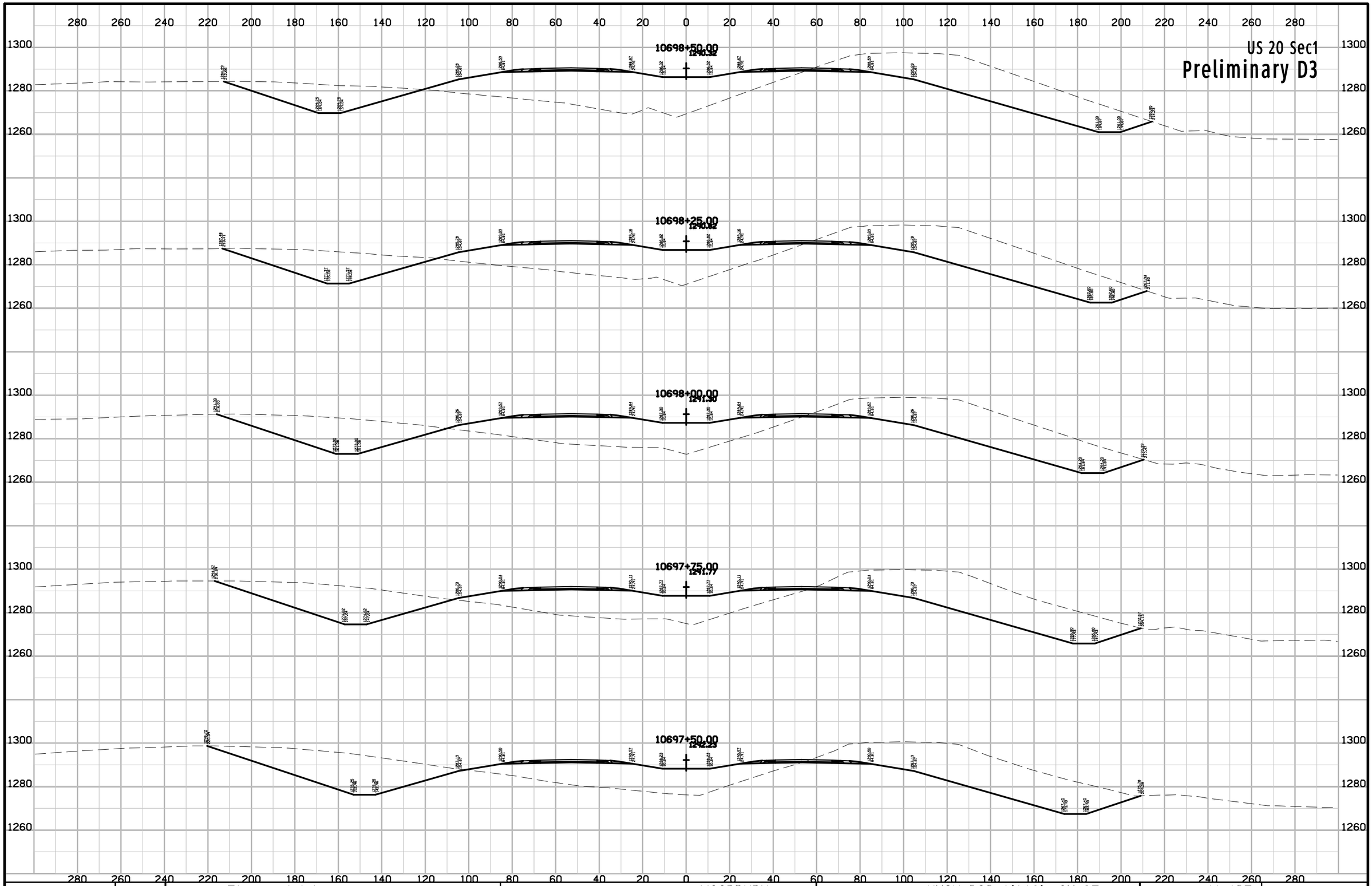


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.404

2:25:14 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

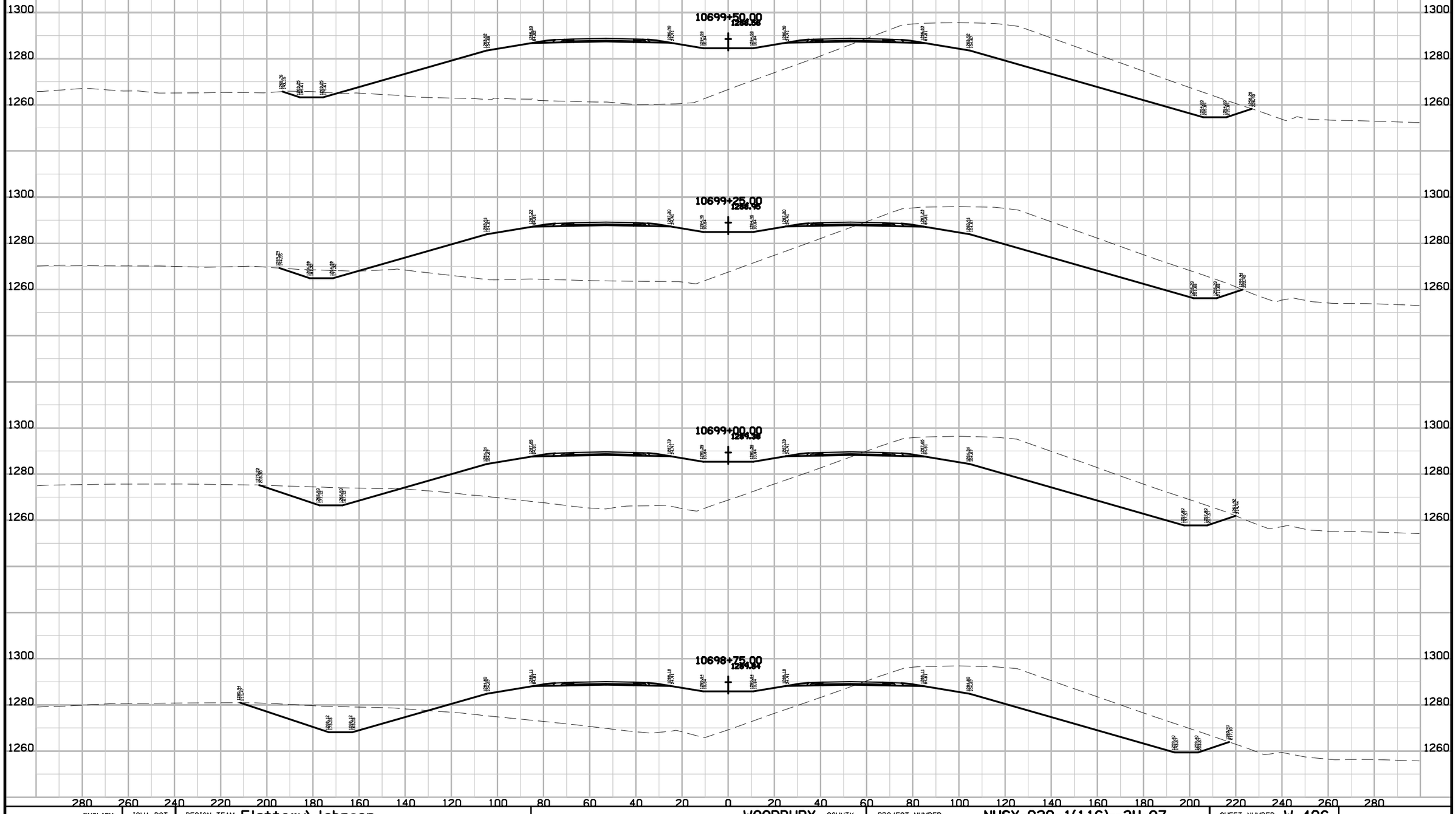


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.405

2:25:15 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

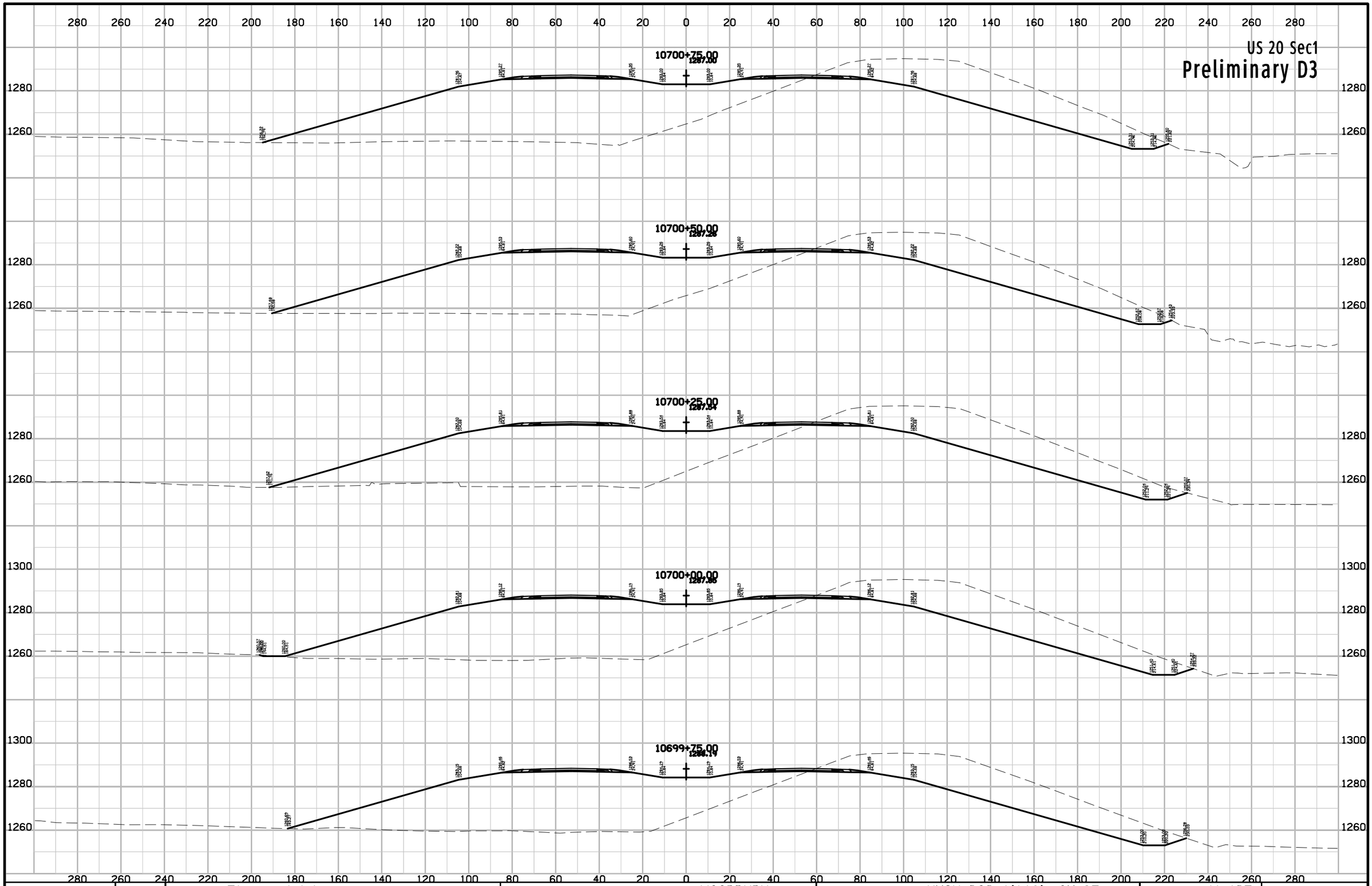


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.406	

2:25:16 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

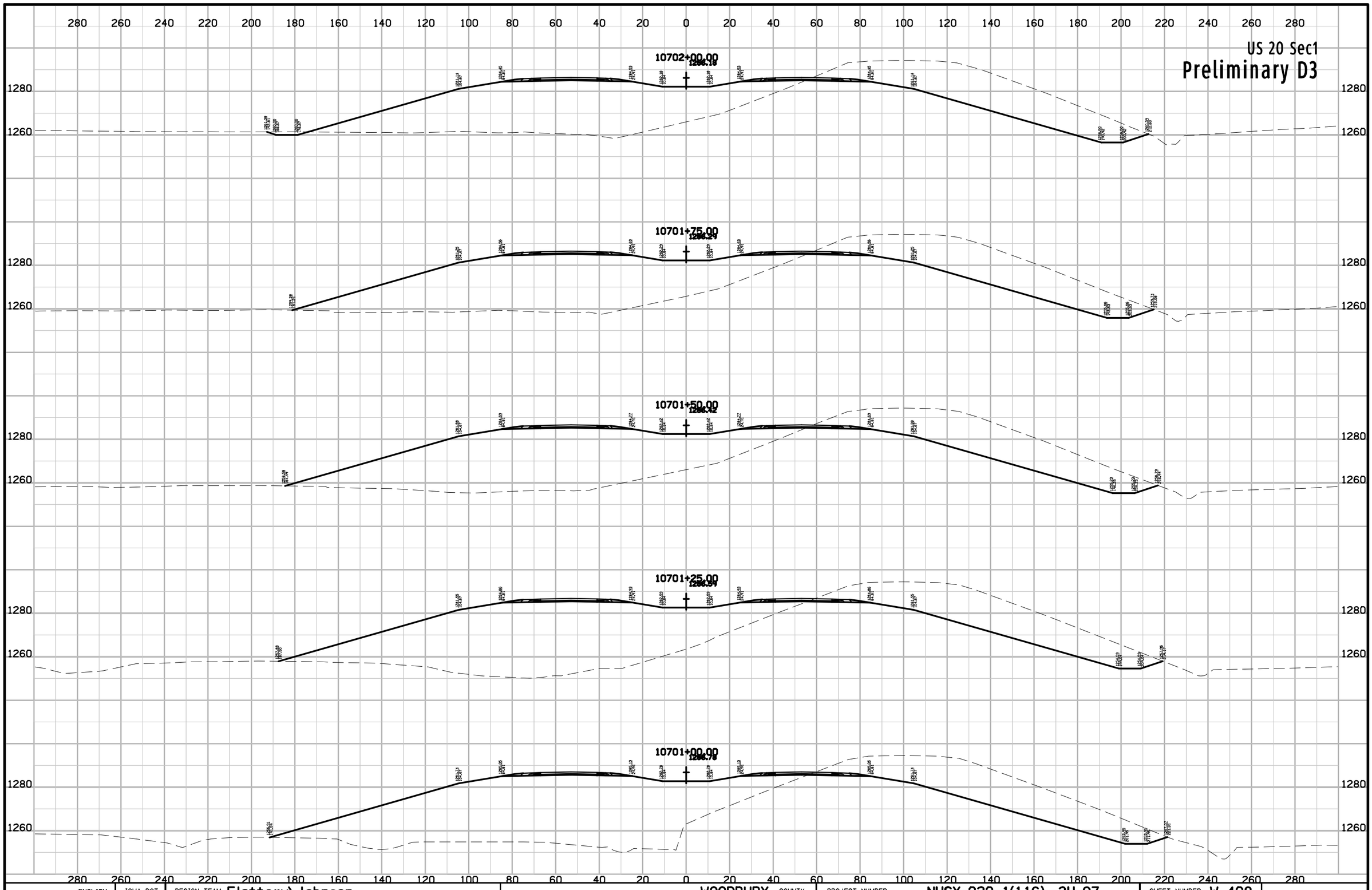


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.407	

2:25:16 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

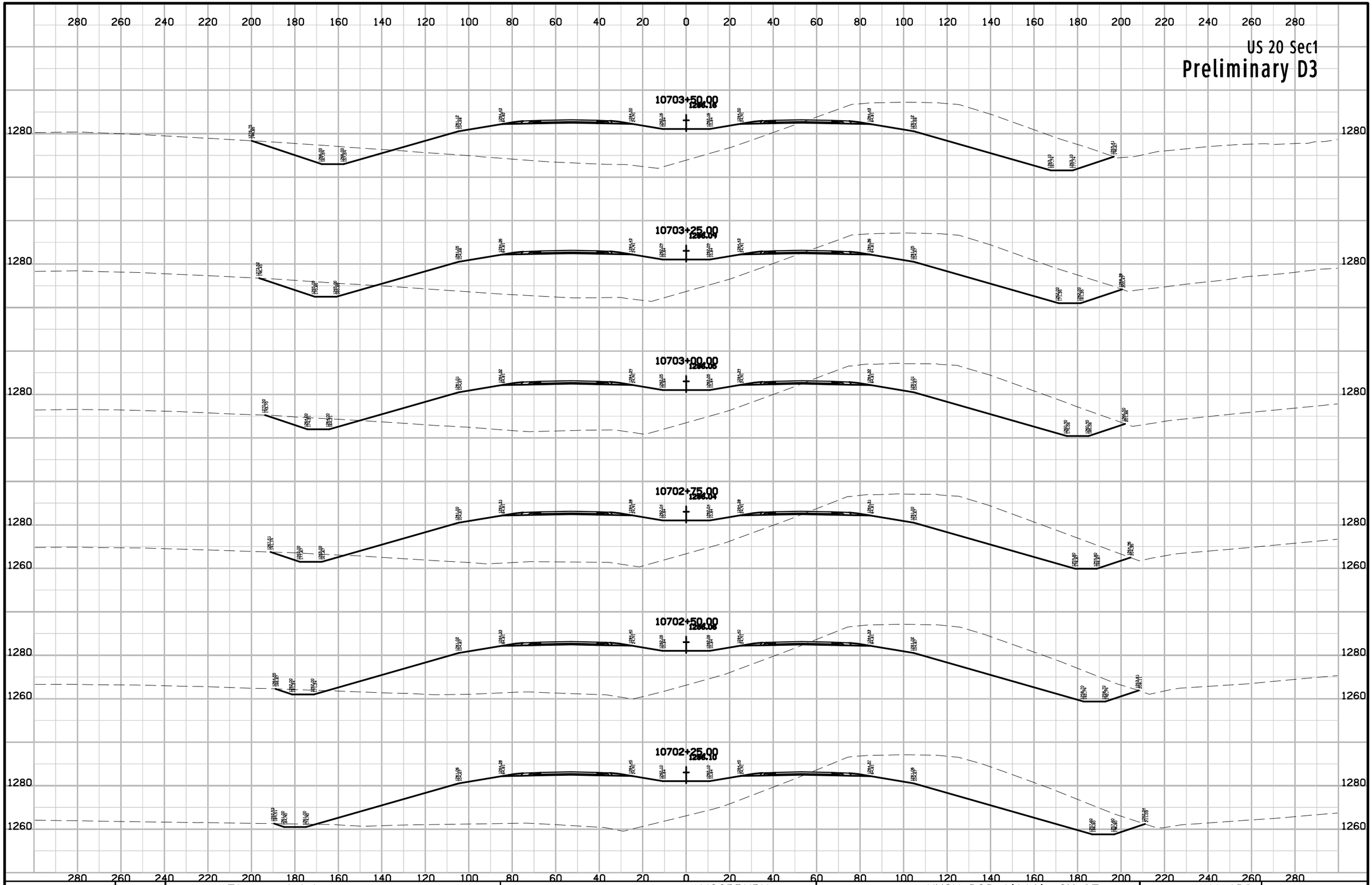


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.408	

2:25:17 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

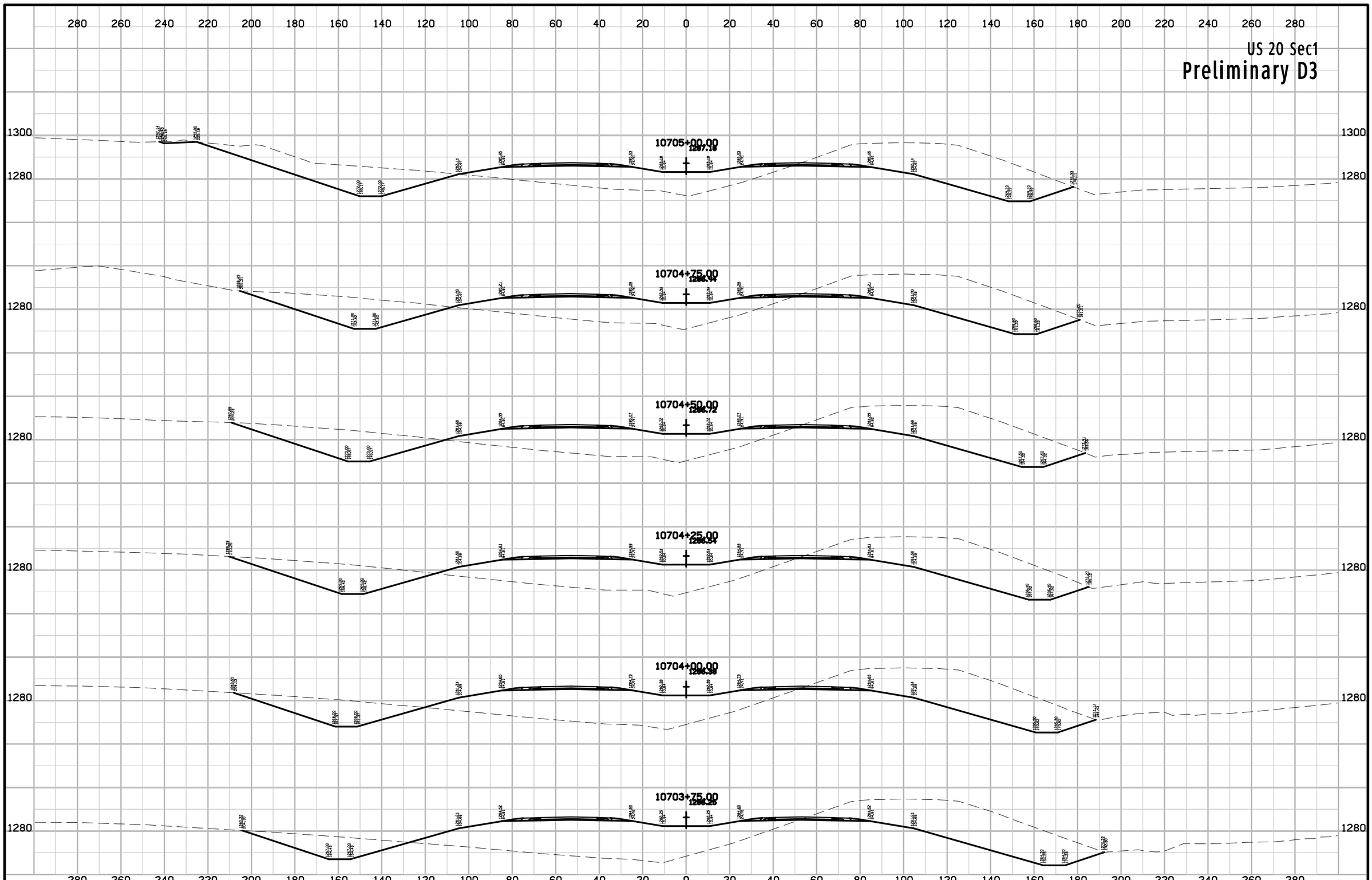


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.409

2:25:18 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

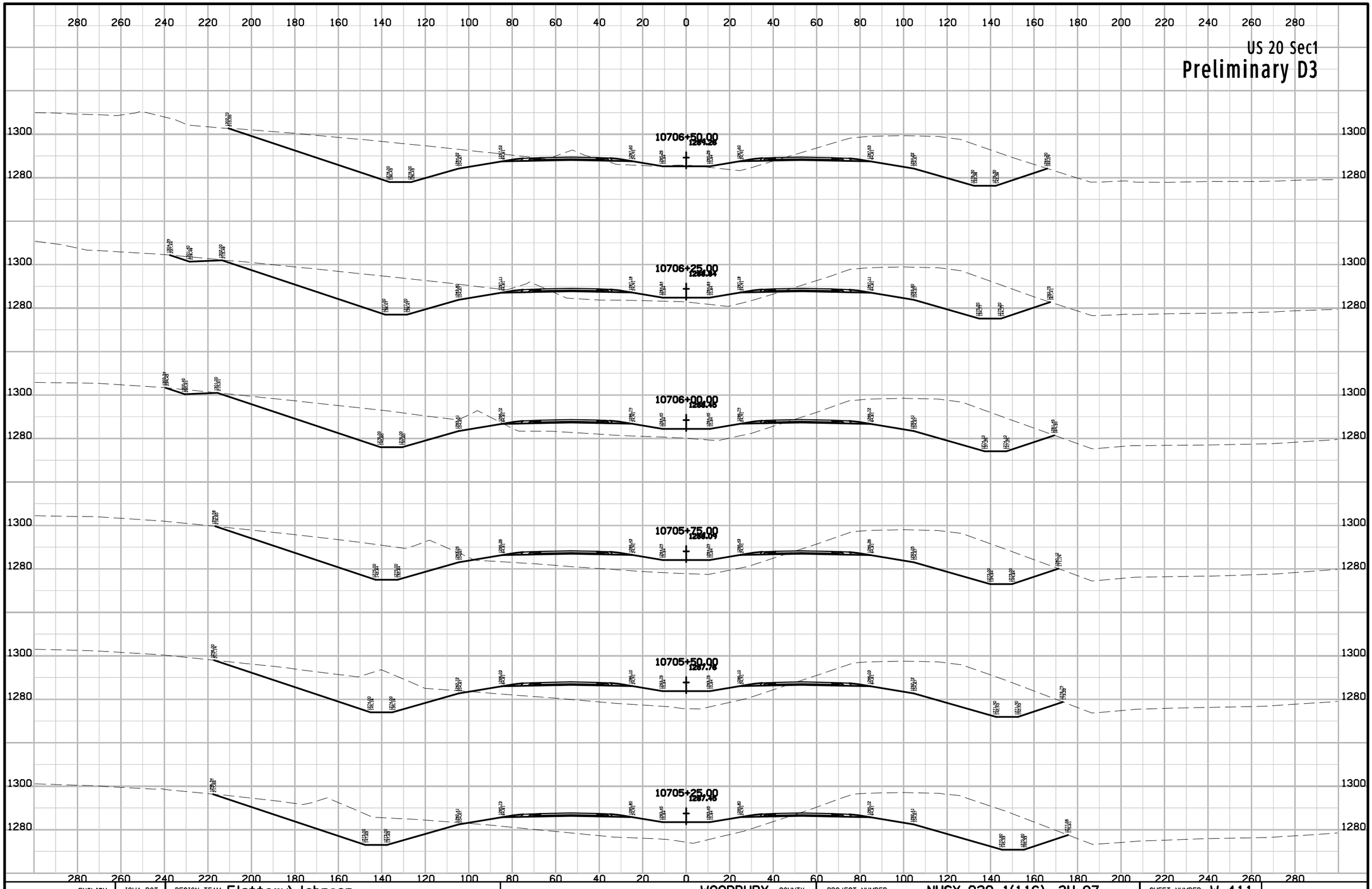


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.410

2:25:18 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

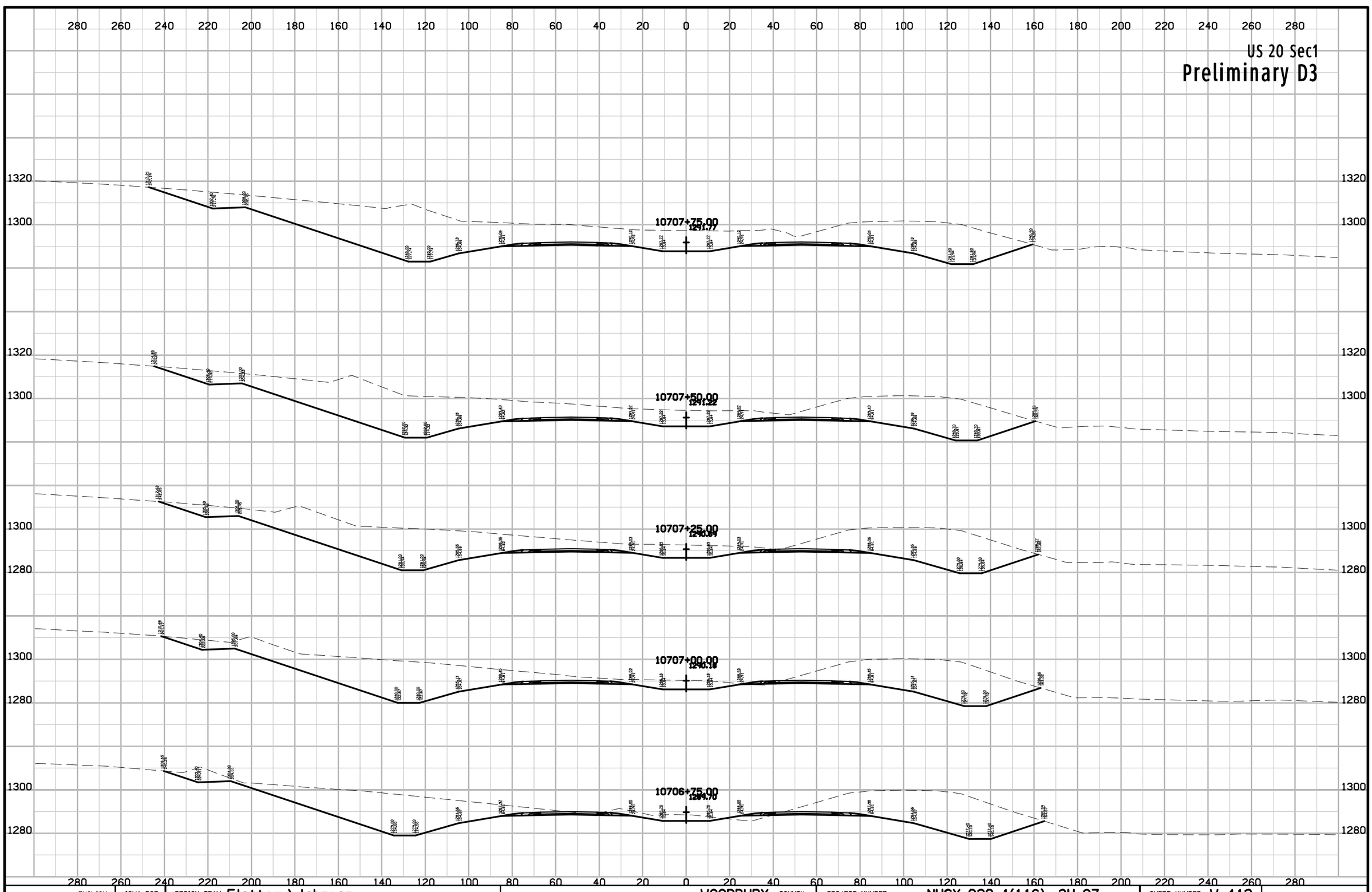


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.411

2:25:19 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

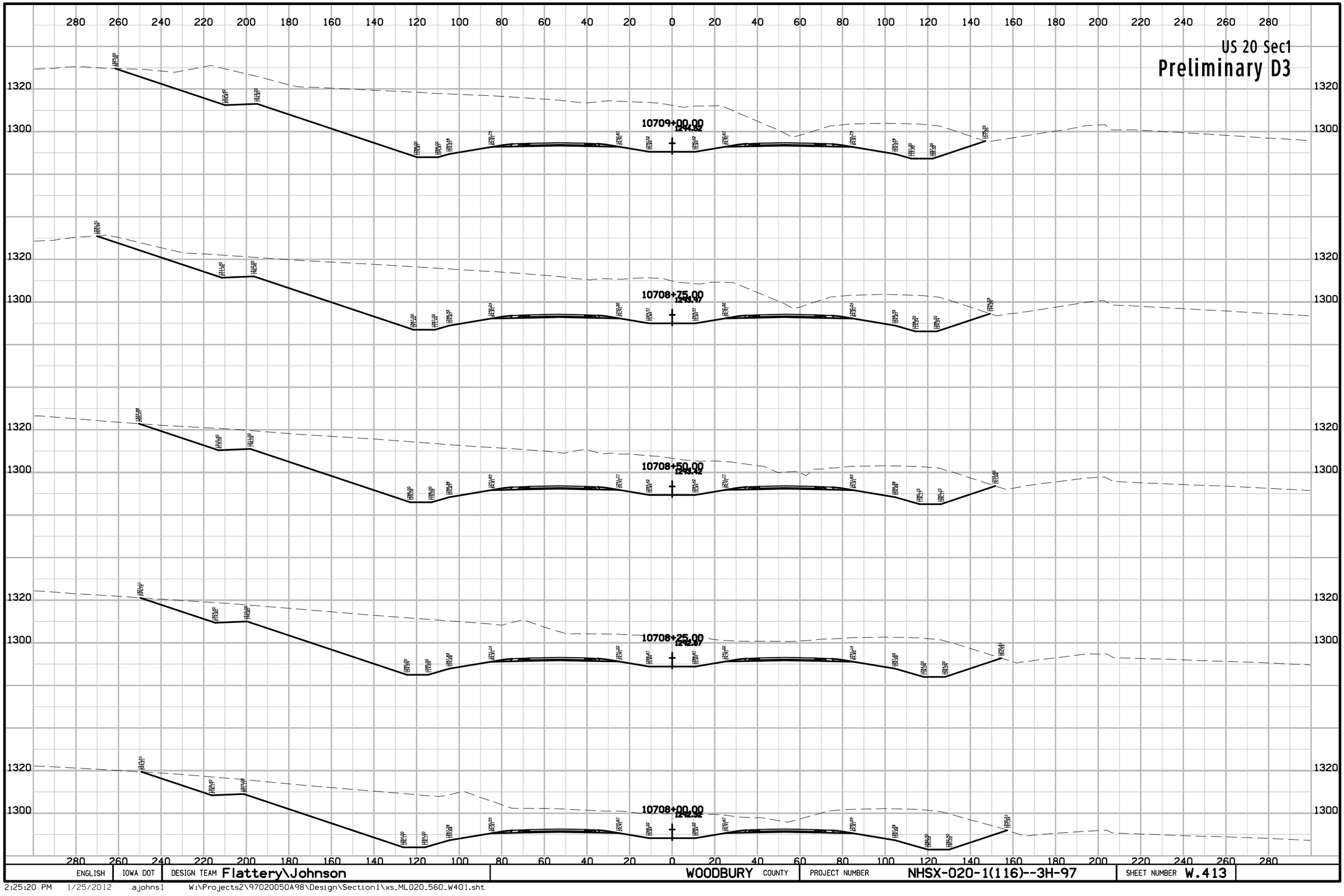


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.412

2:25:20 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

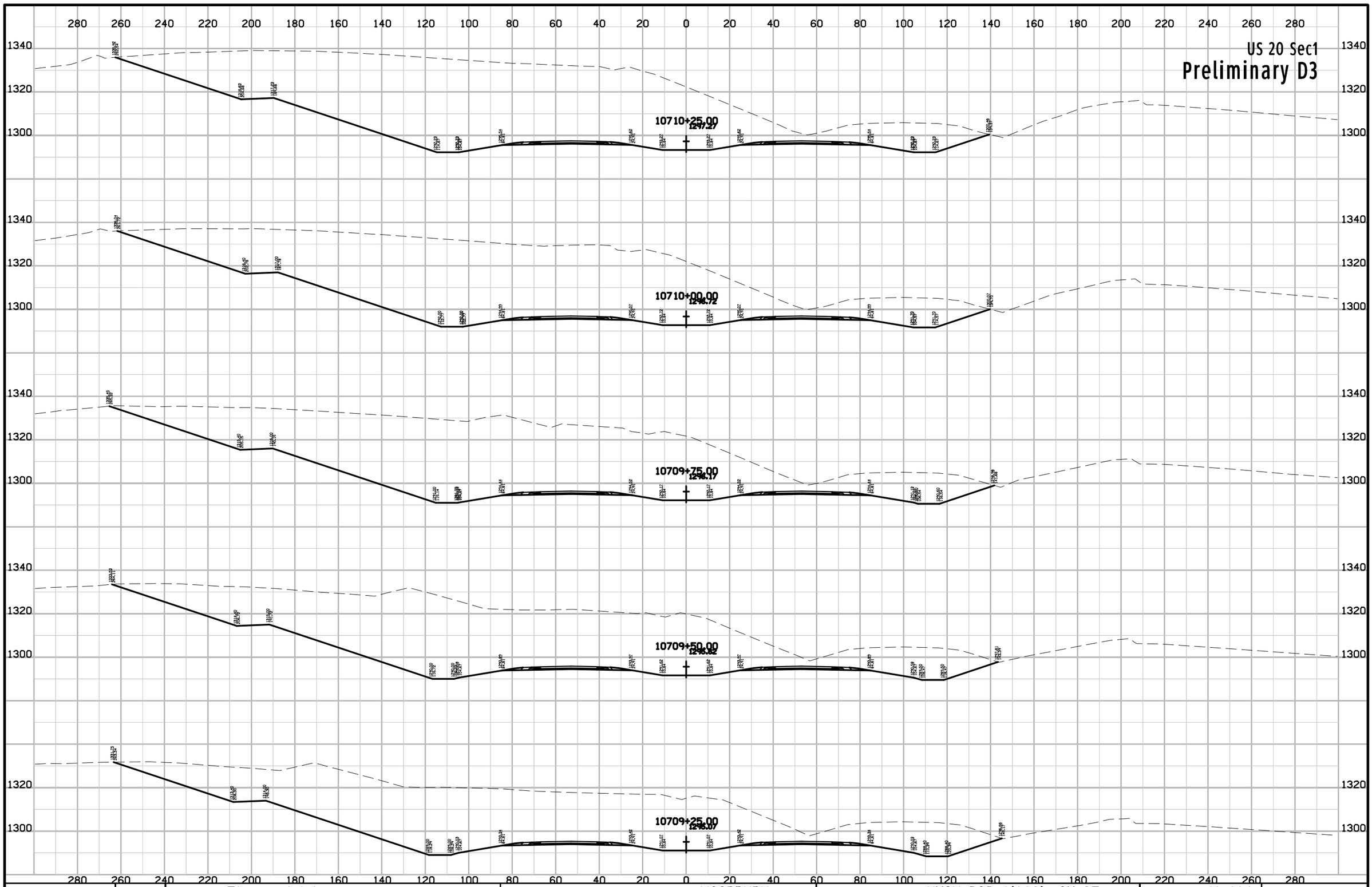


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.413

2:25:20 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

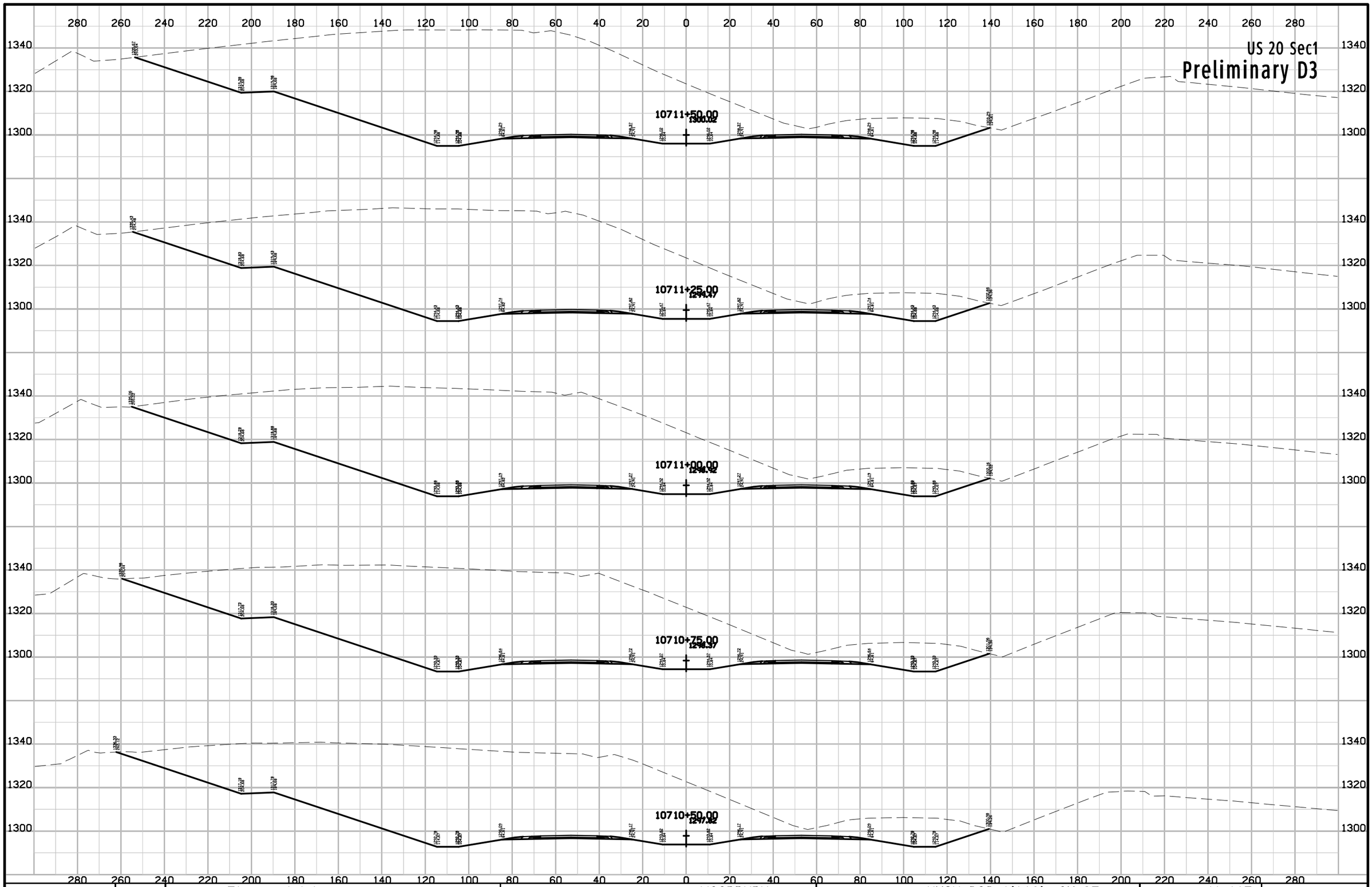


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.414

2:25:21 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

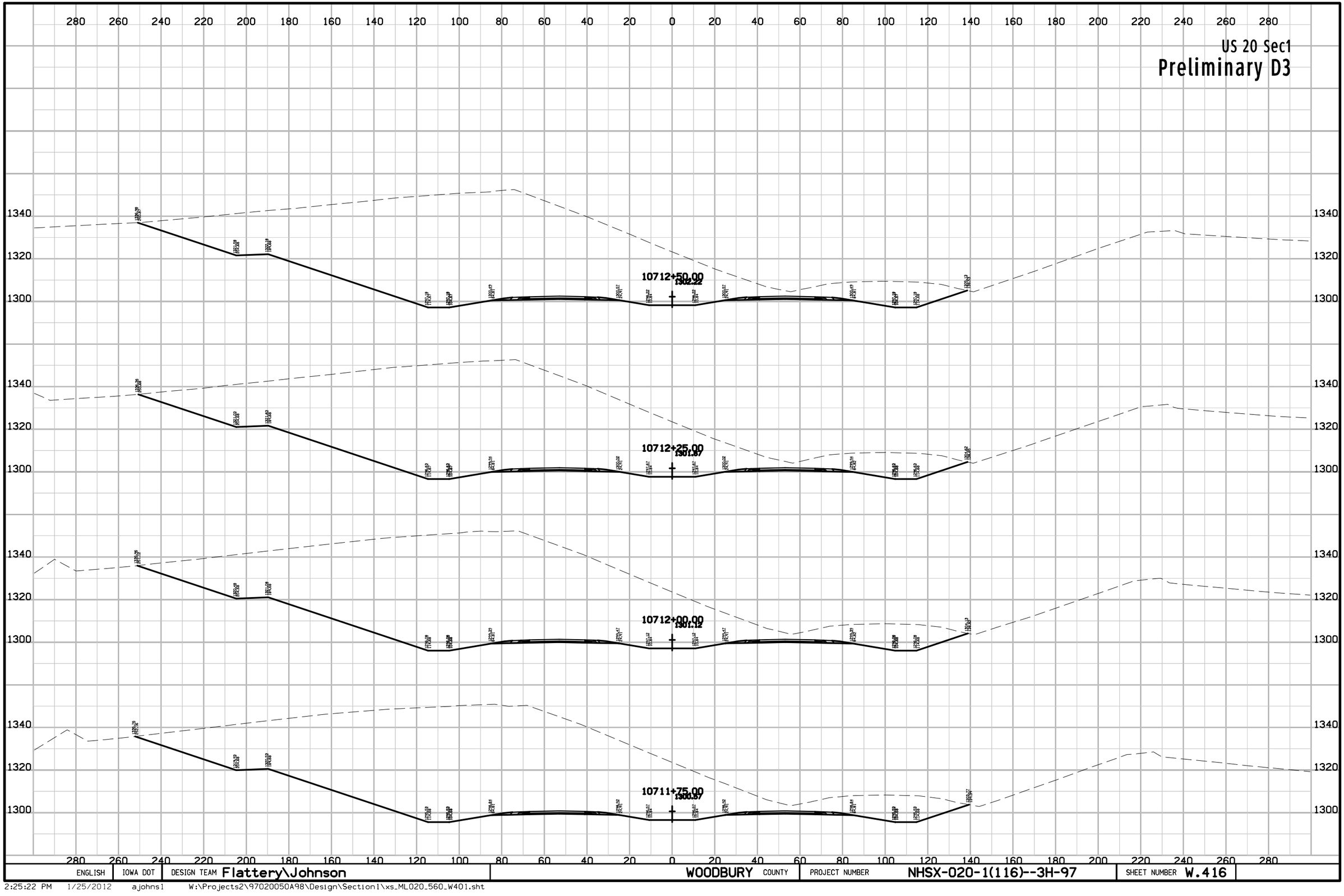


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.415

2:25:21 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

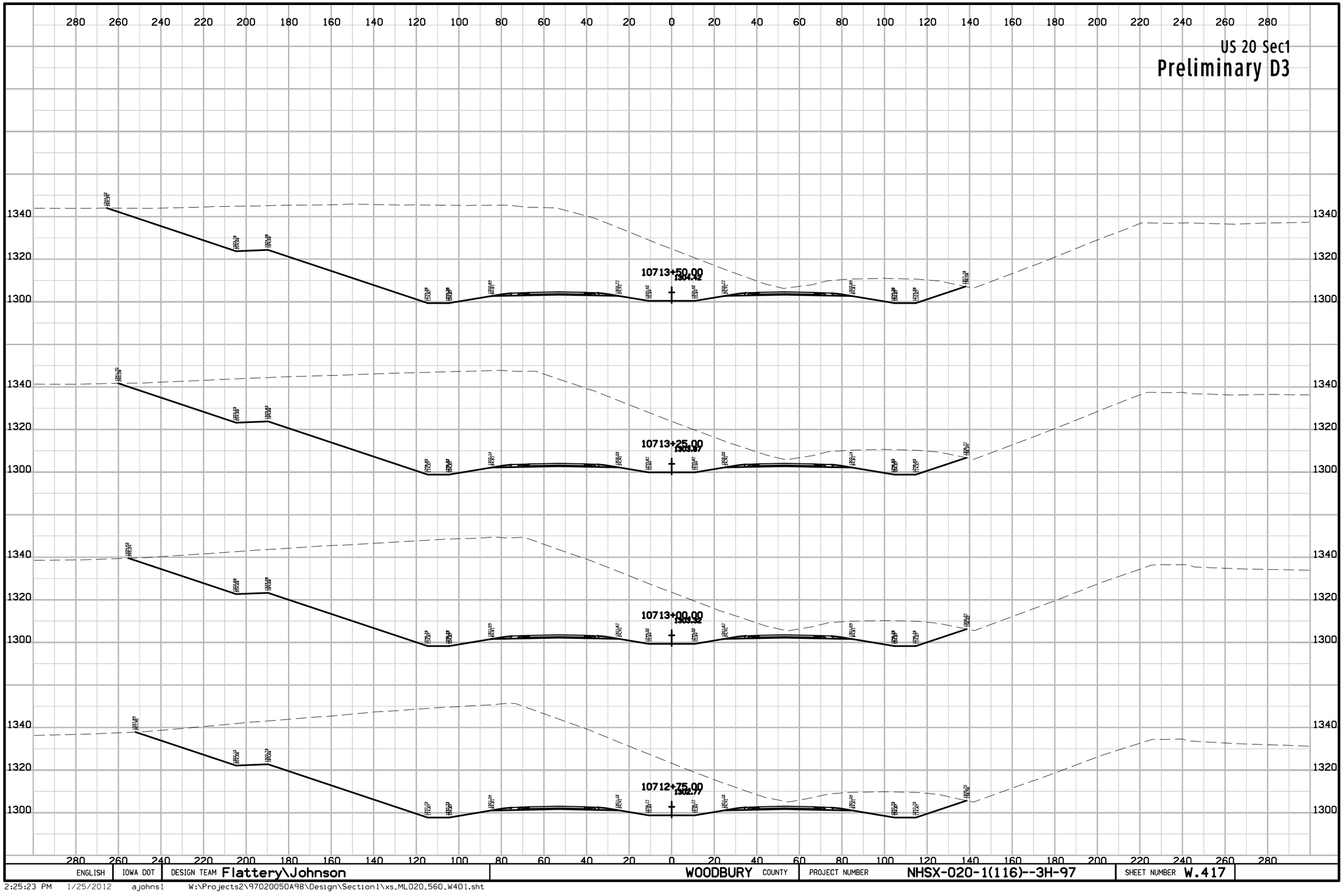


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.416

2:25:22 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

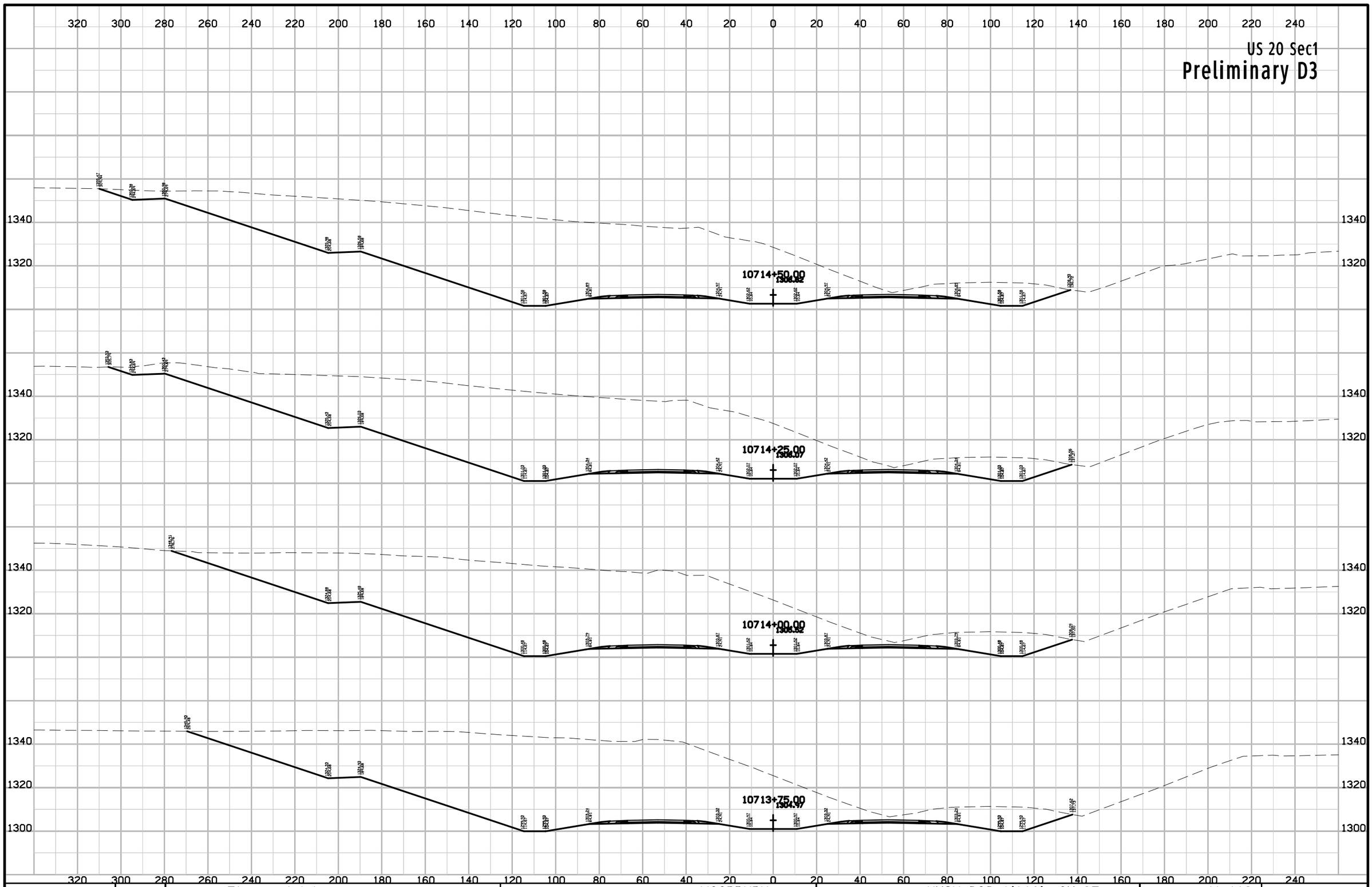


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.417

2:25:23 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

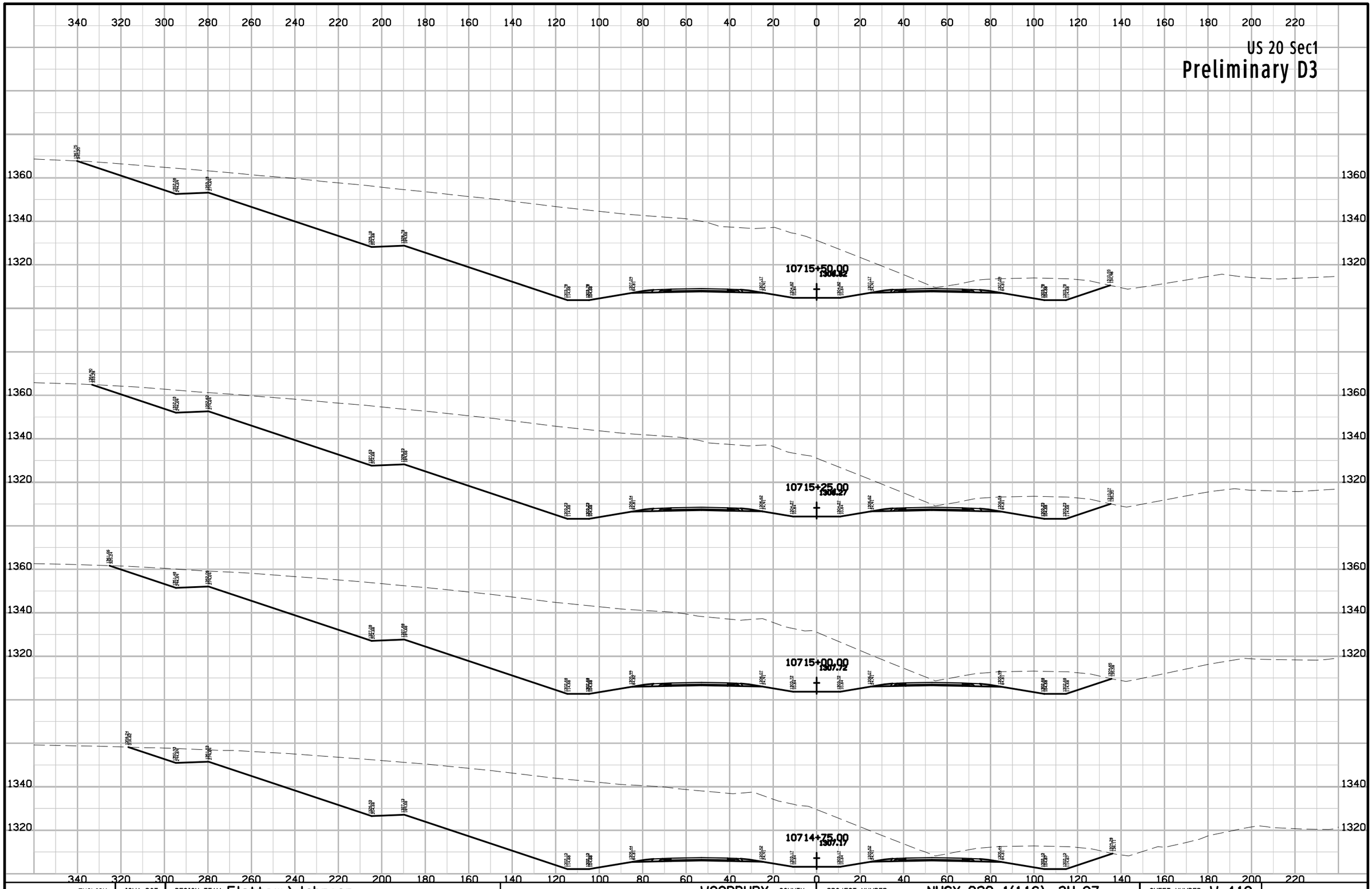


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.418

2:25:23 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

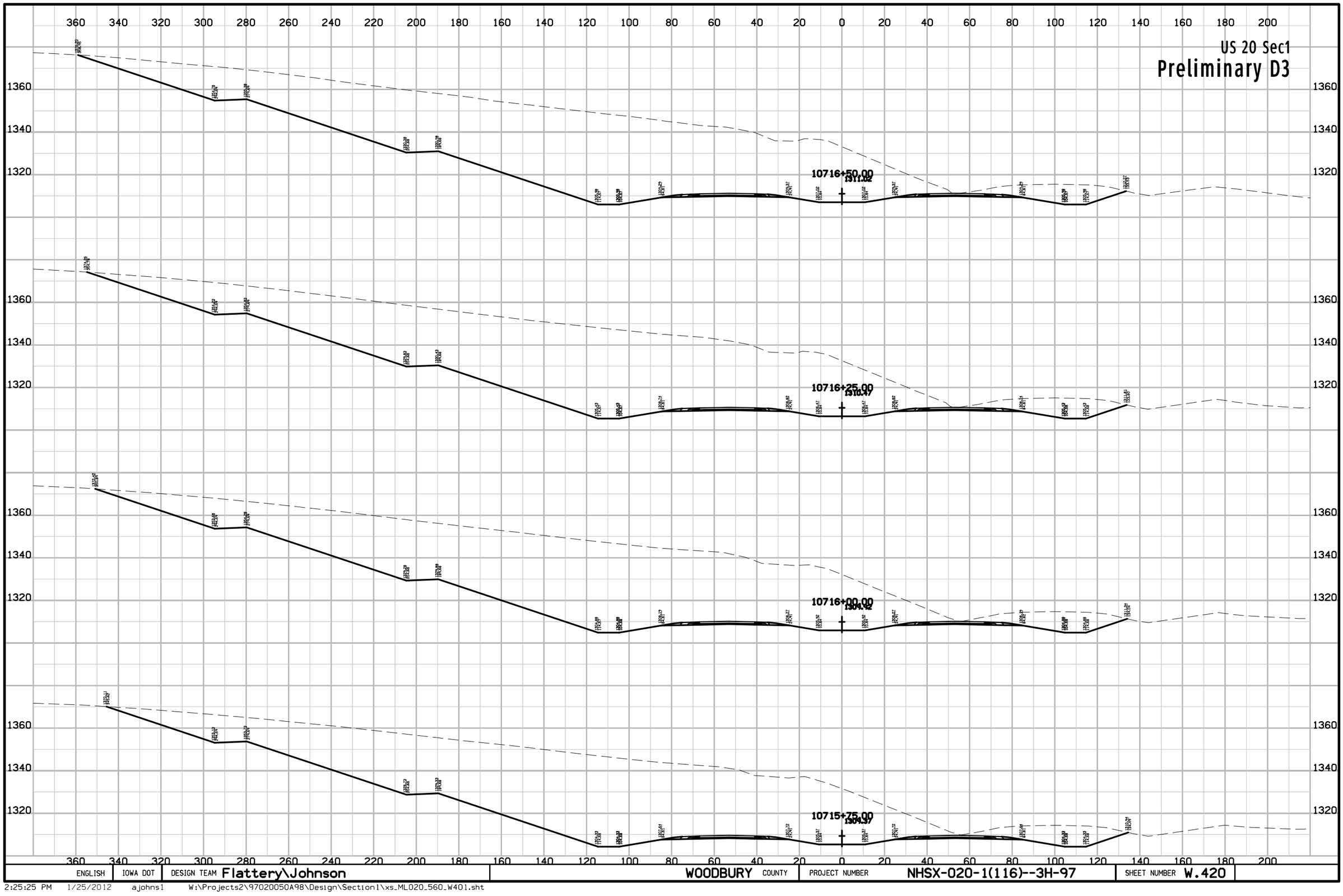


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.419

2:25:24 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

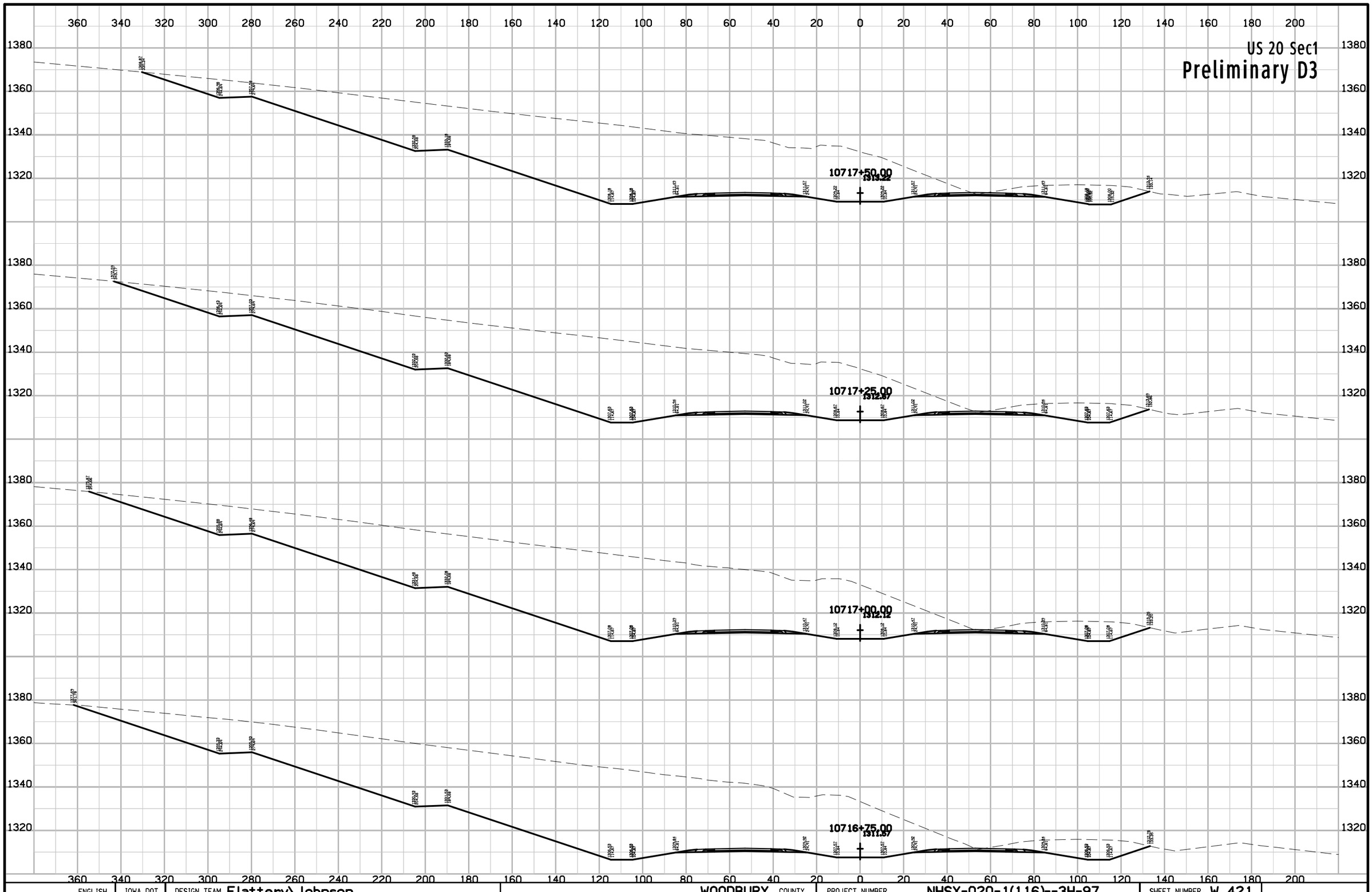


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.420

2:25:25 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

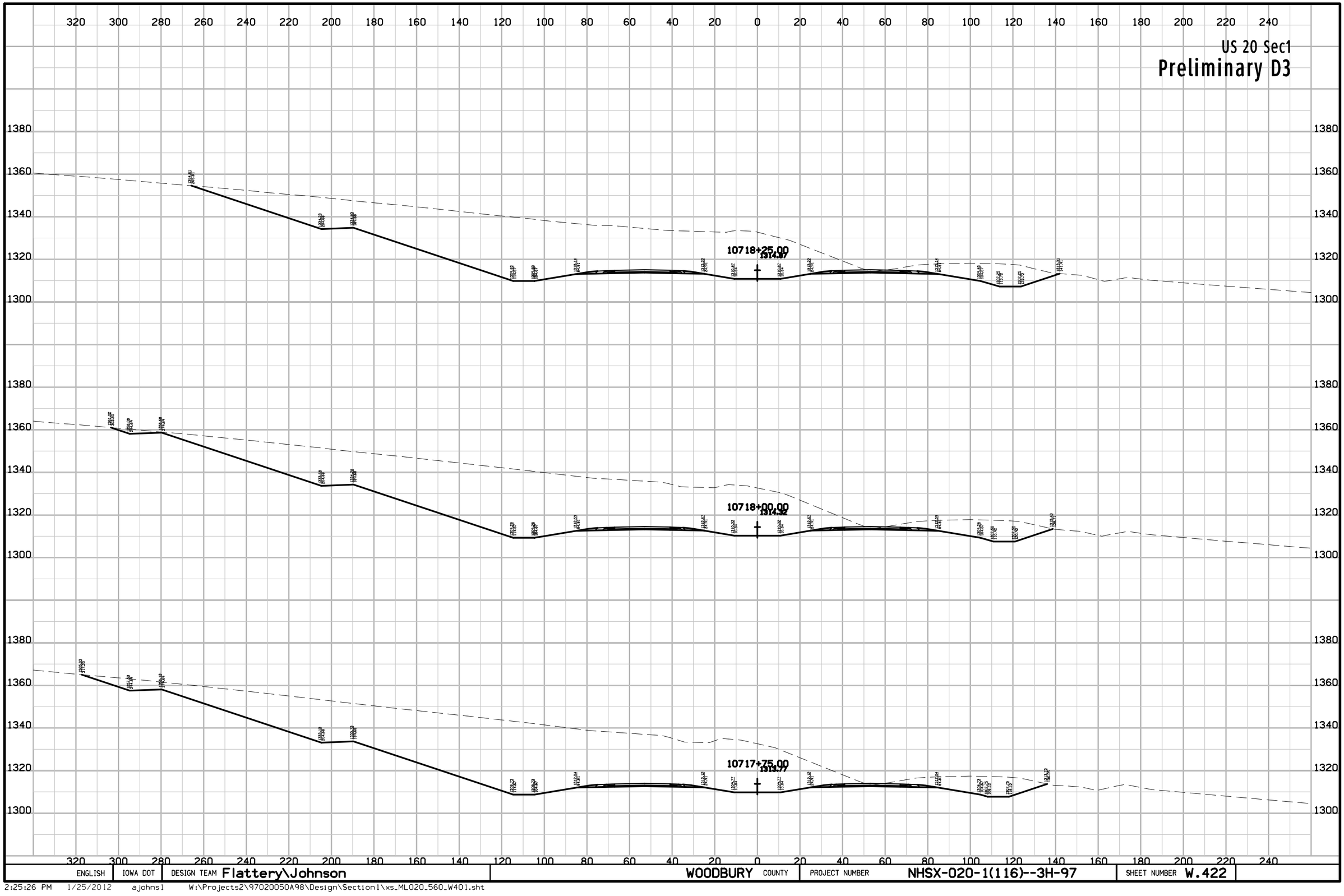


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.421

2:25:25 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

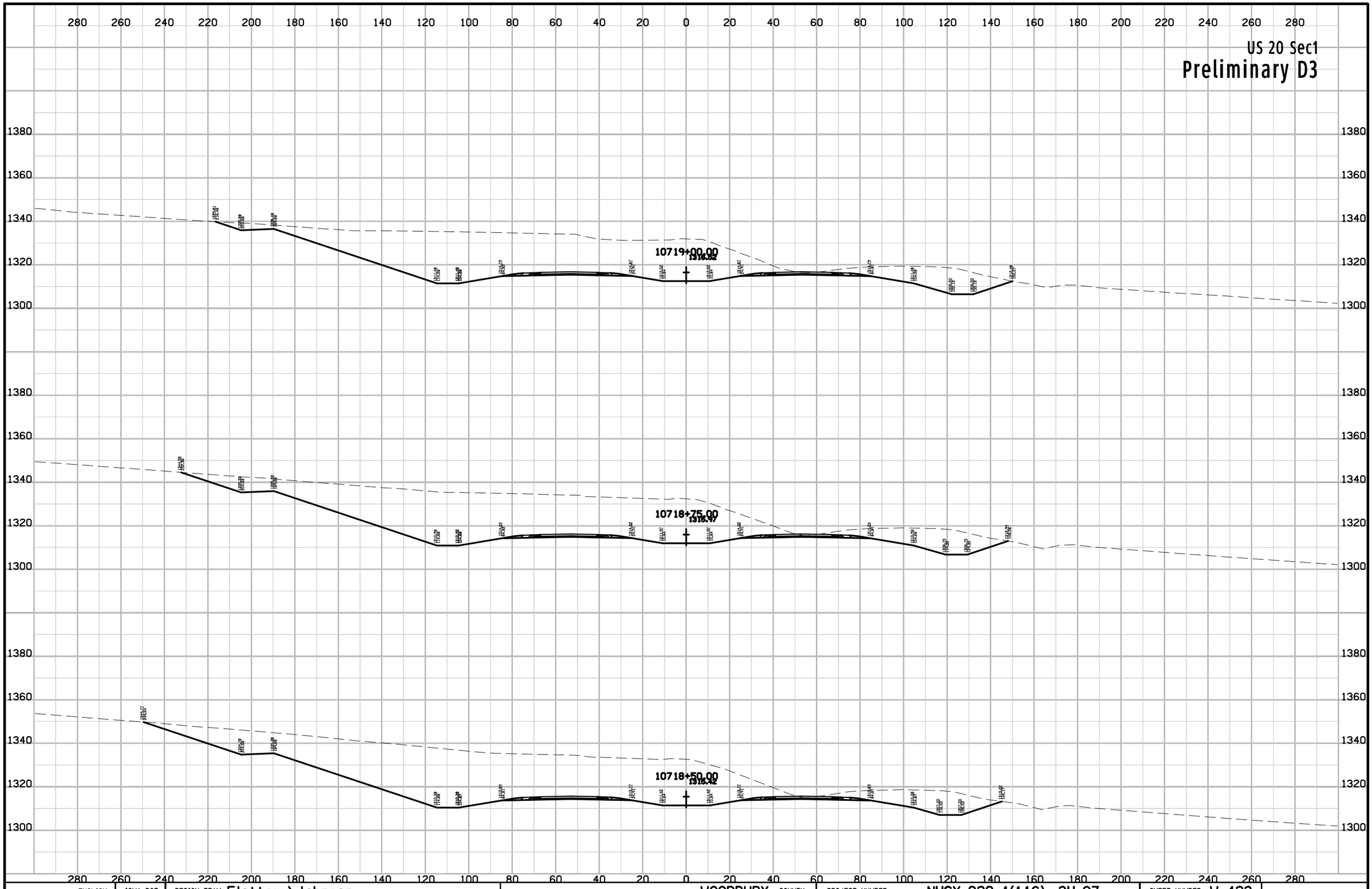


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.422

2:25:26 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

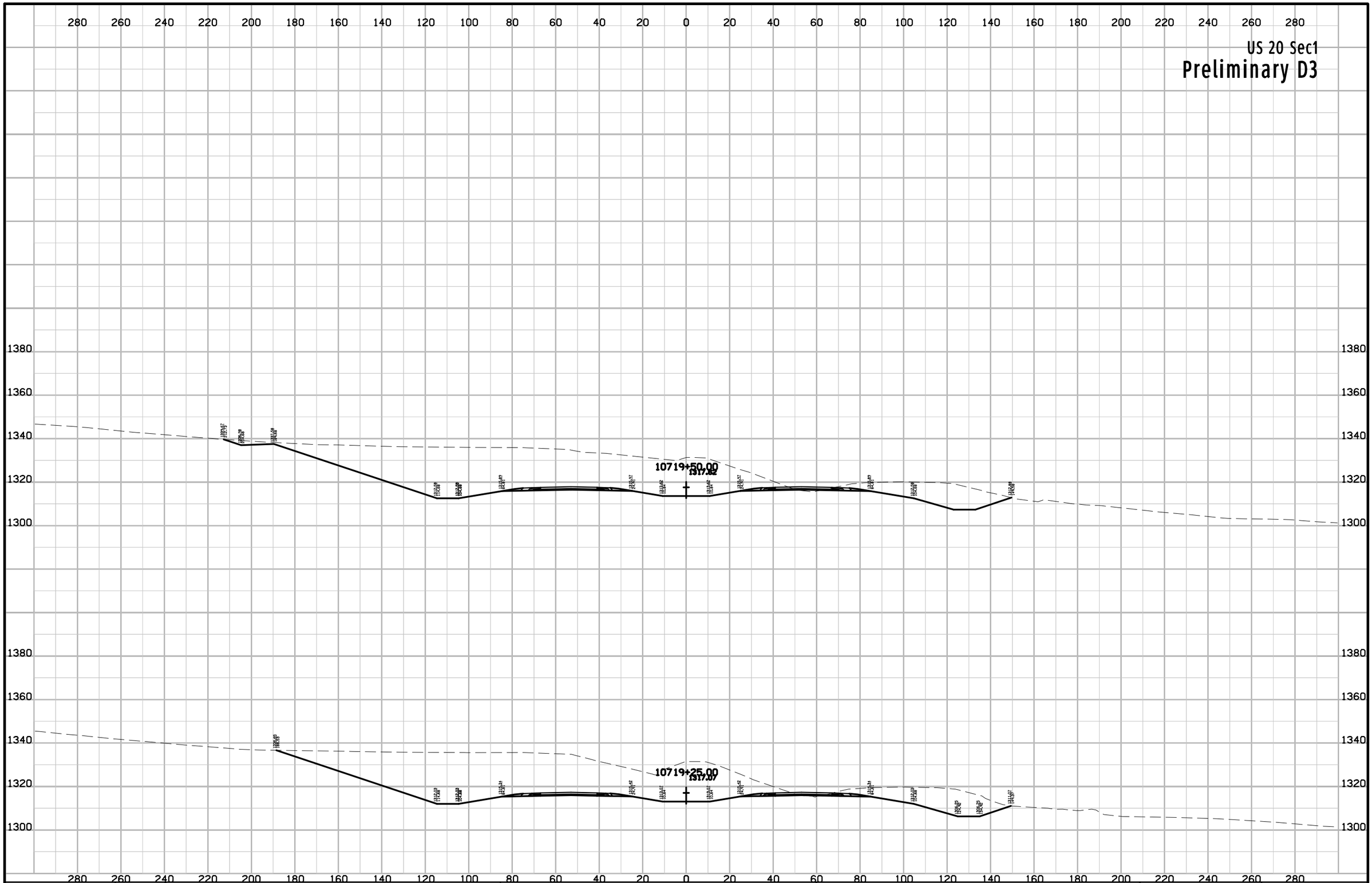


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.423

2:25:27 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.424

2:25:27 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

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
1300

10720+00.00
1316.72

10719+75.00
1316.17

1380
1360
1340
1320
1300

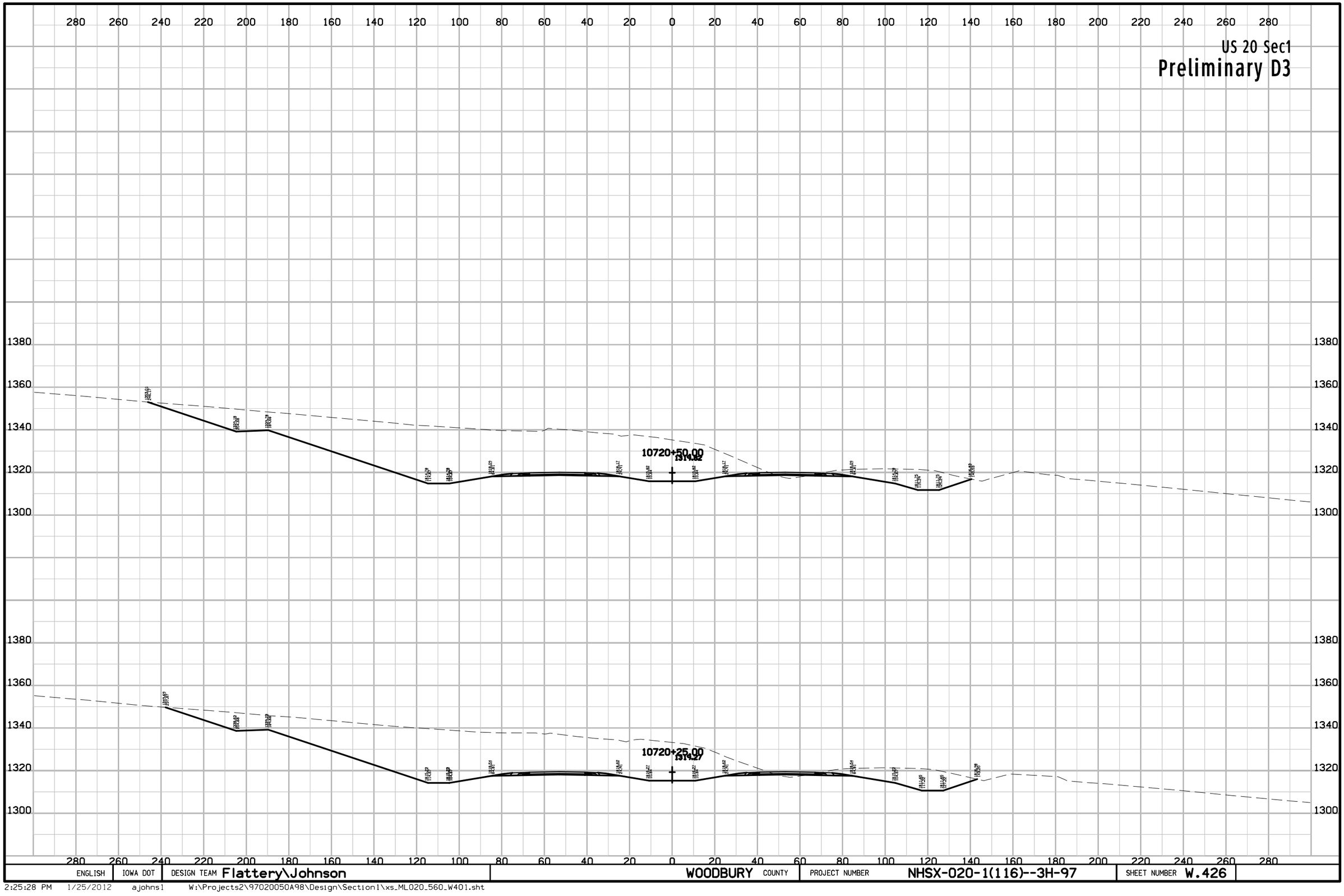
280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.425

2:25:28 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

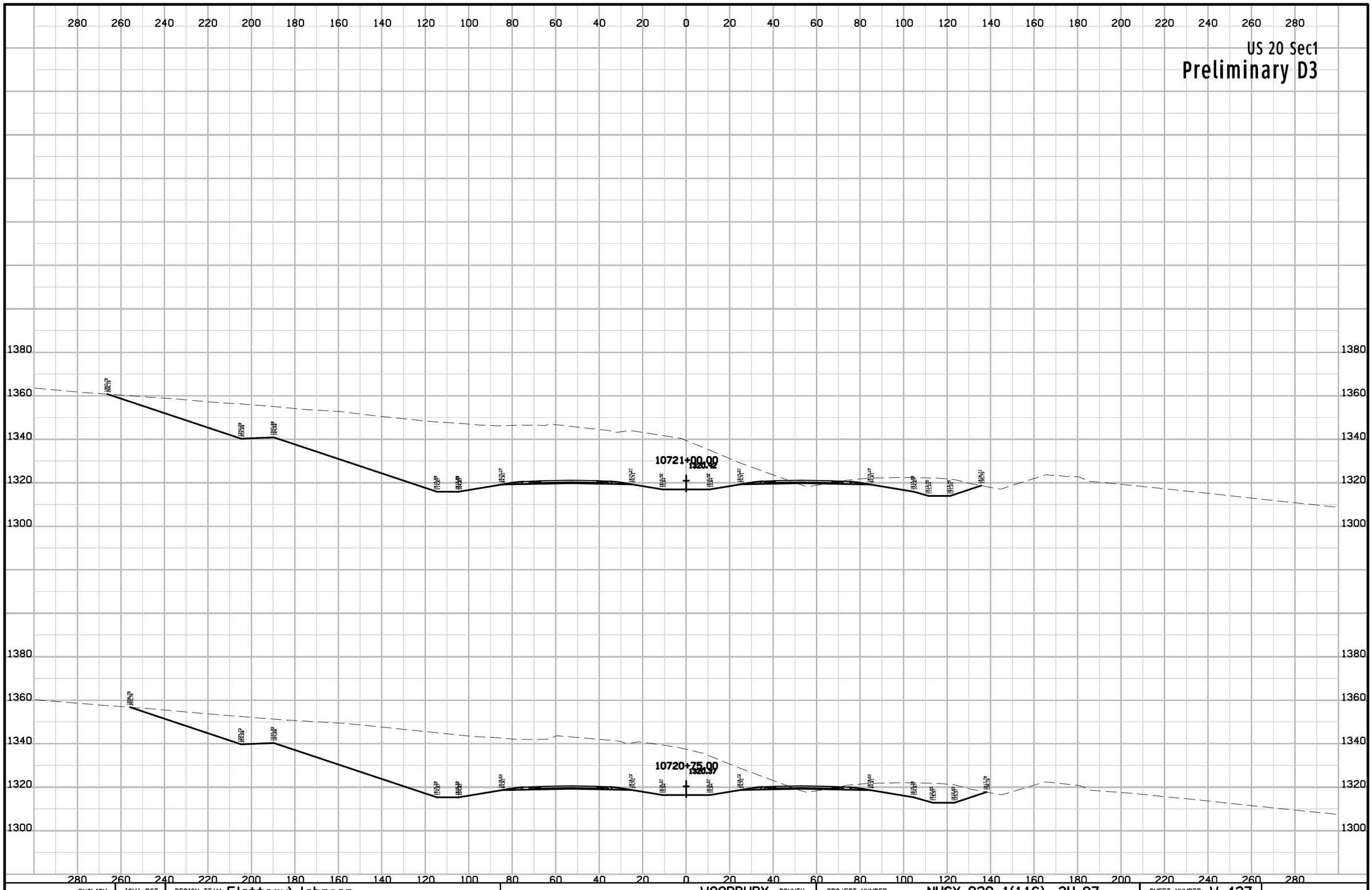


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.426

2:25:28 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

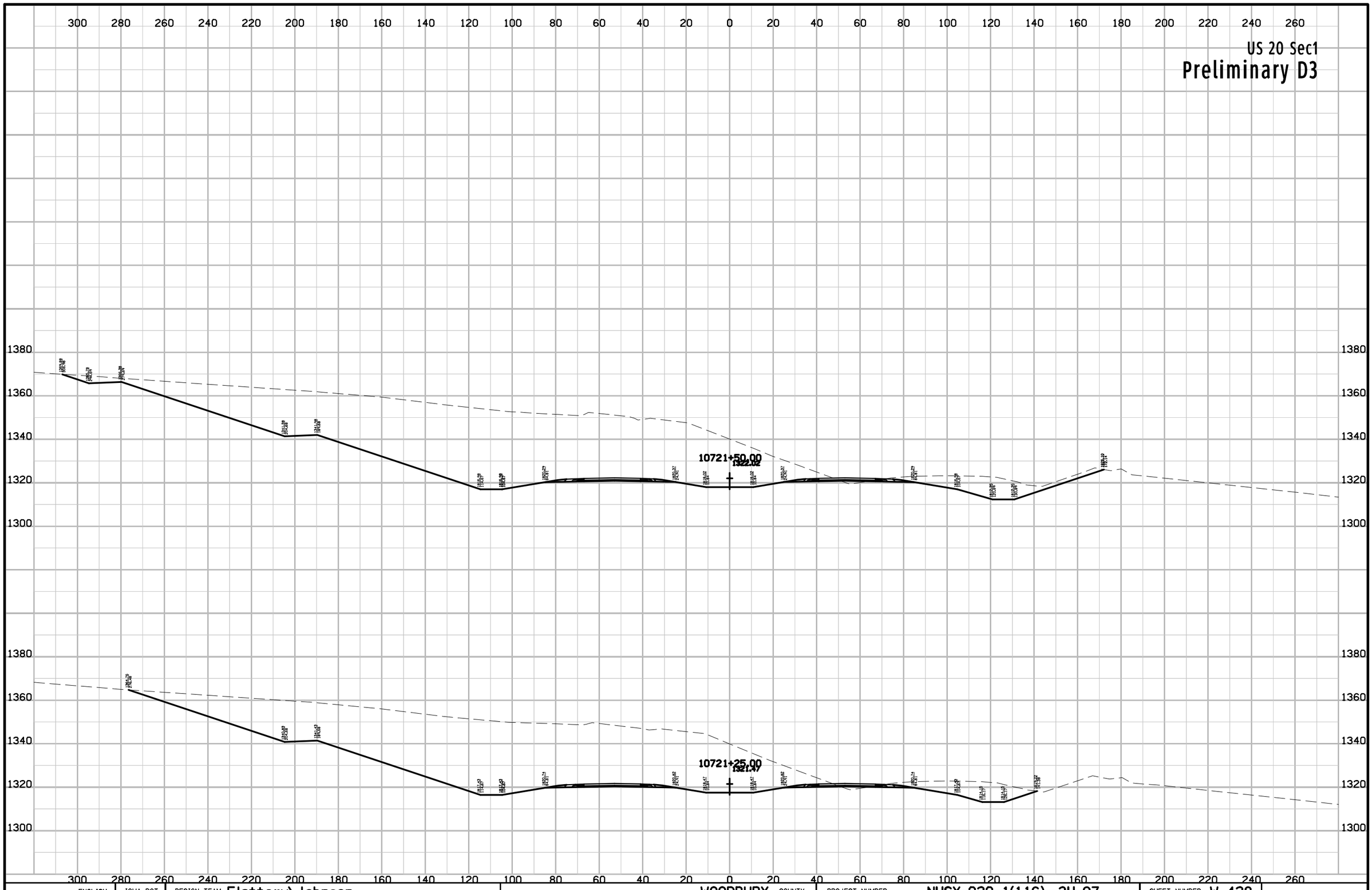


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.427

2:25:29 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

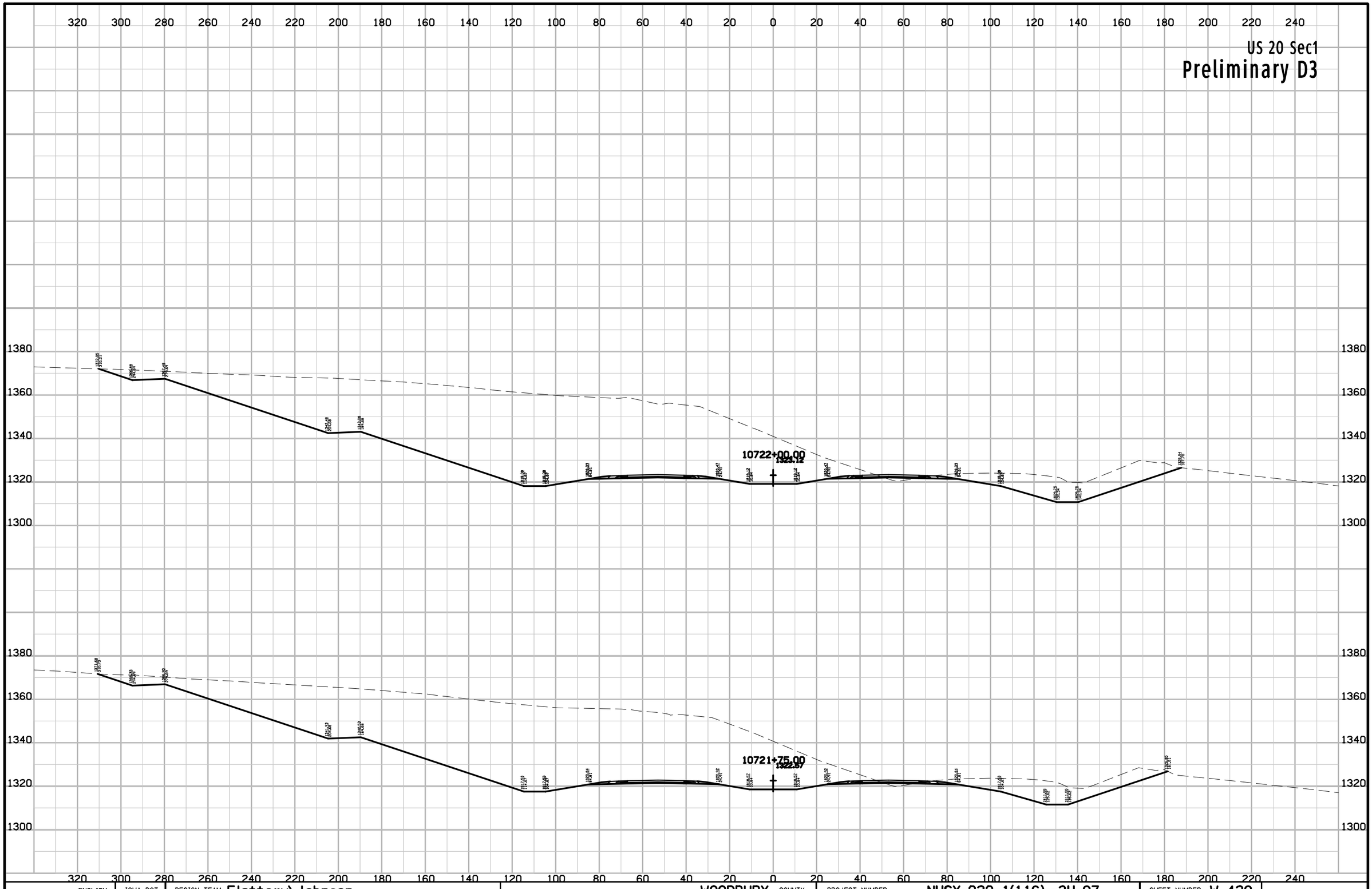


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.428

2:25:29 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

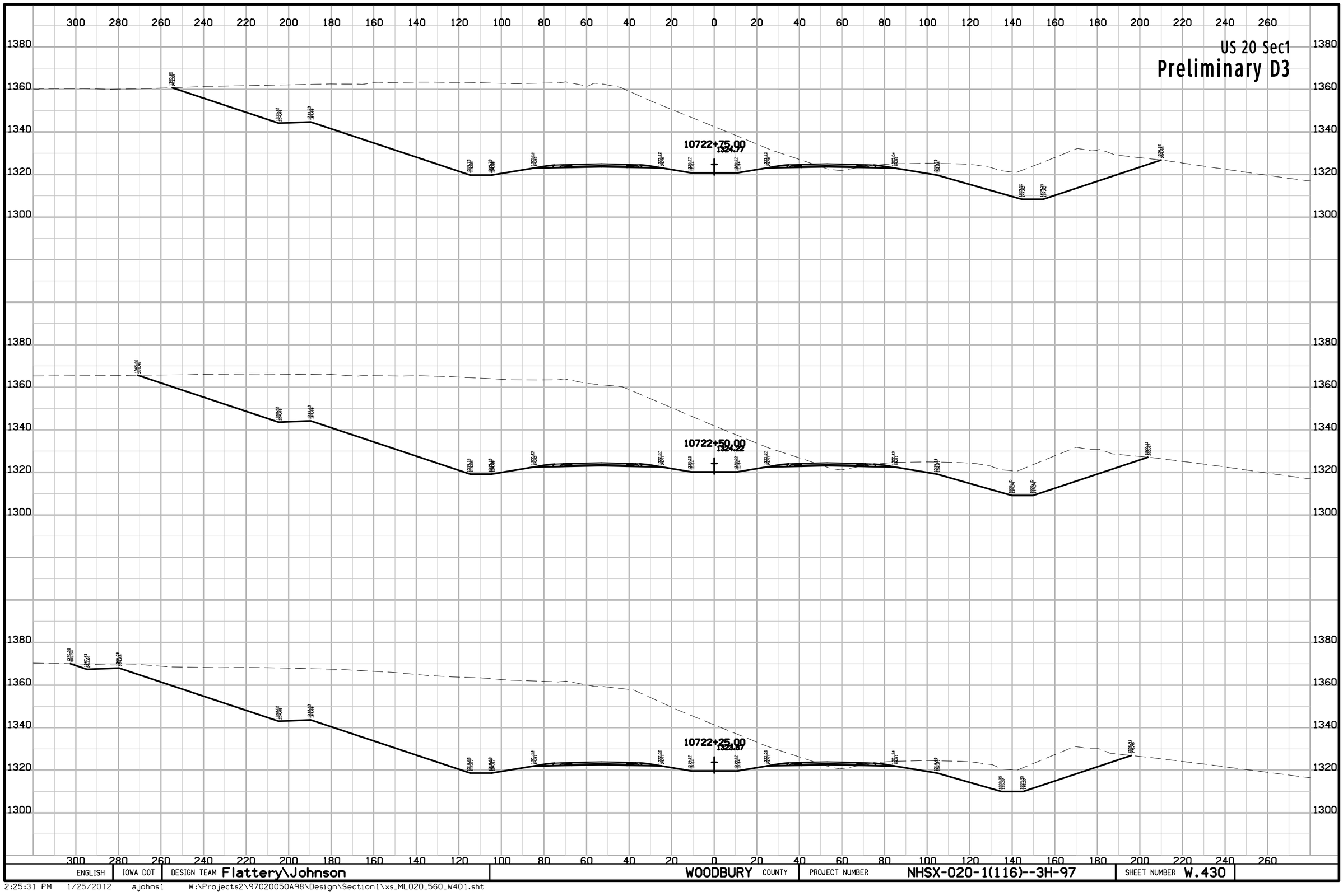


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.429

2:25:30 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

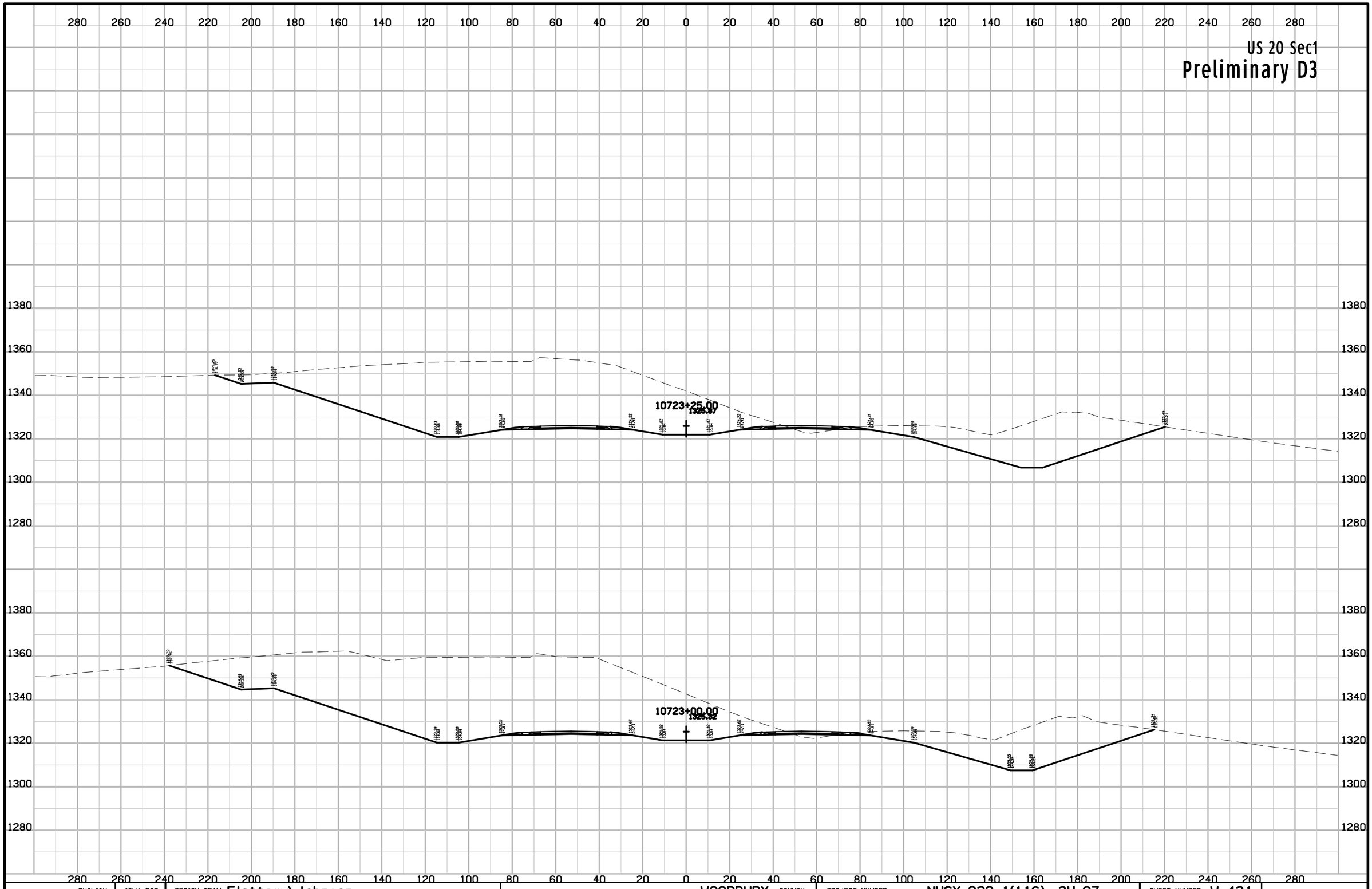


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.430

2:25:31 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

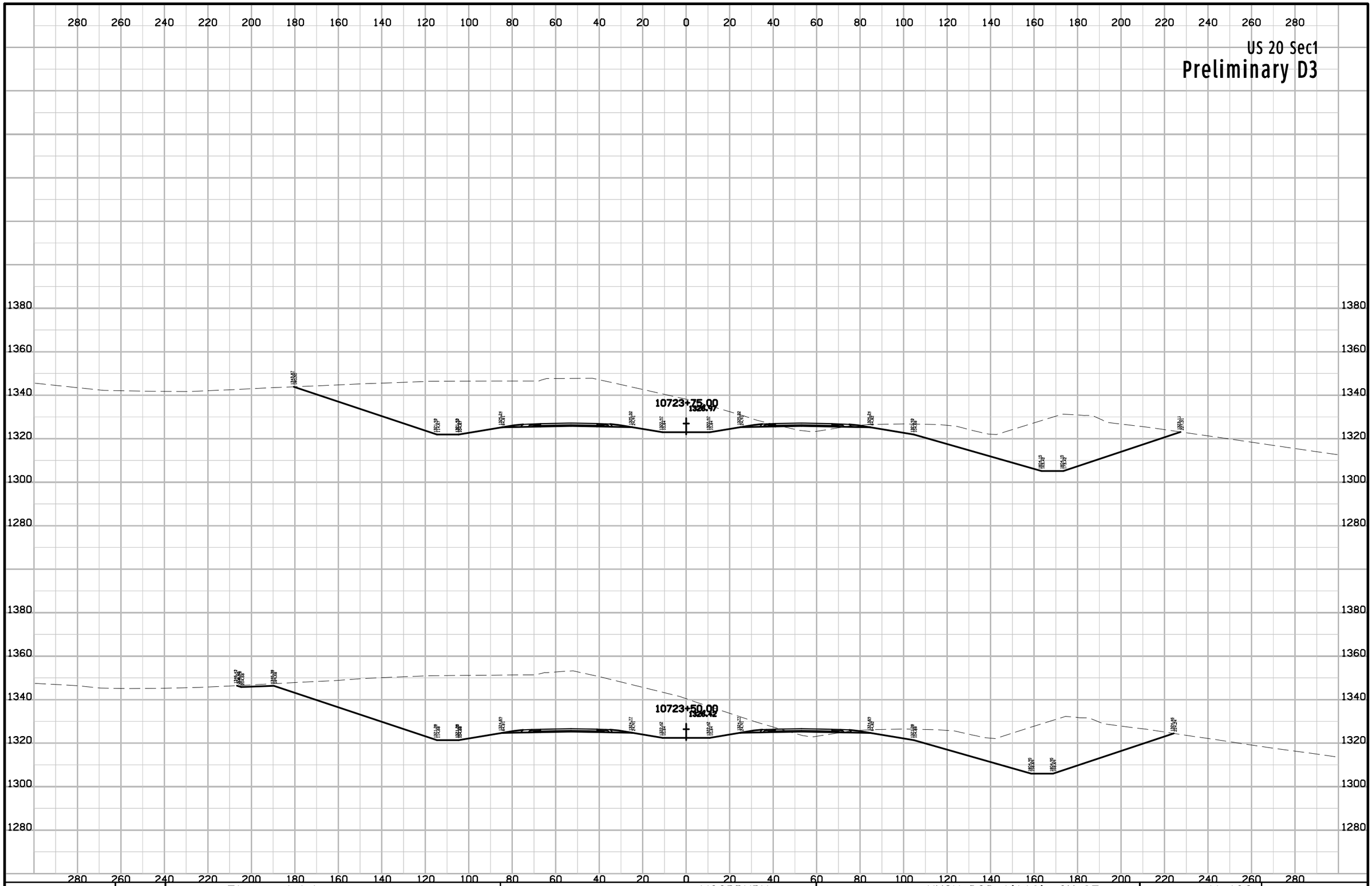


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.431

2:25:31 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

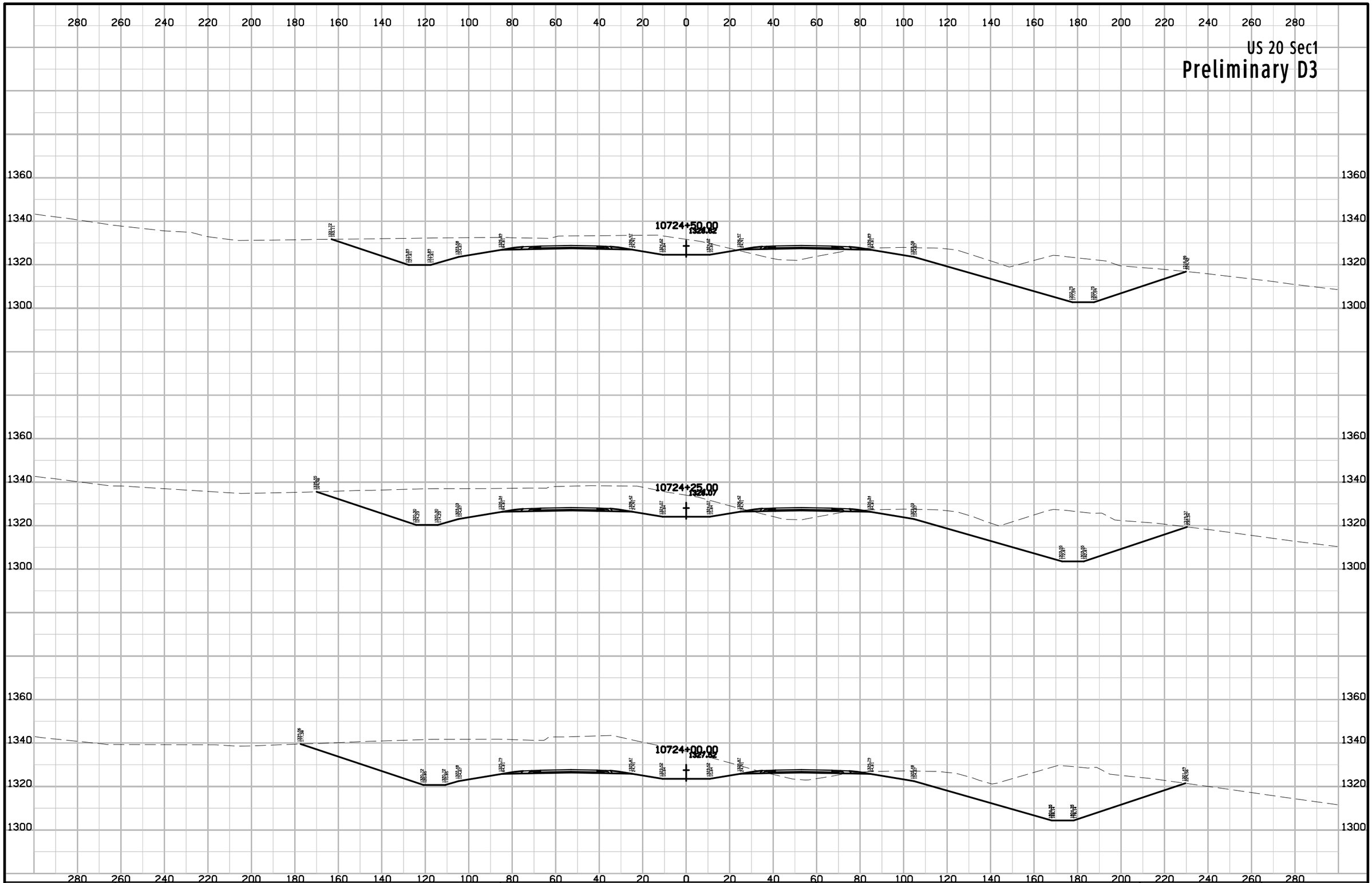


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.432

2:25:32 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

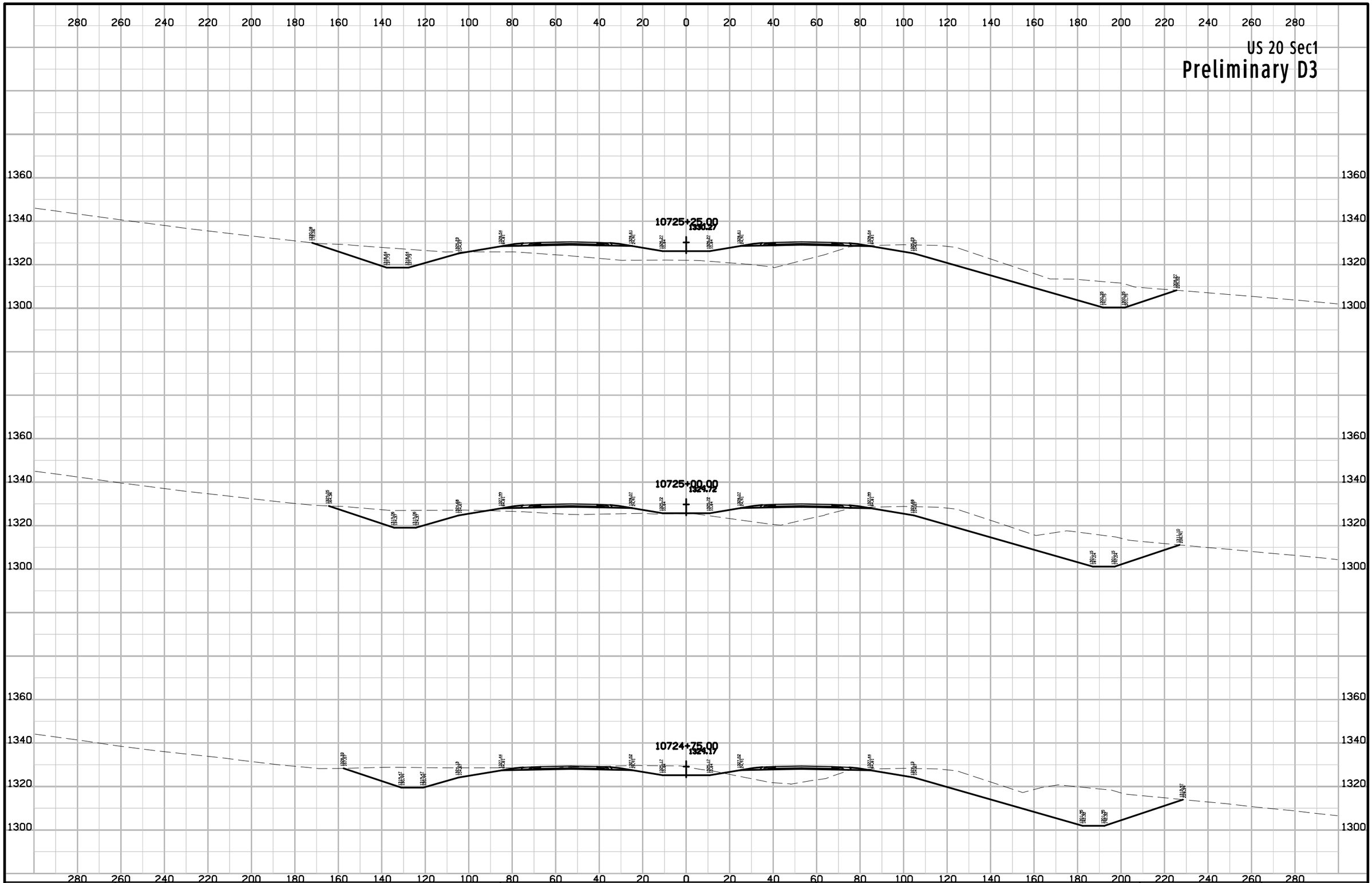


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.433

2:25:32 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

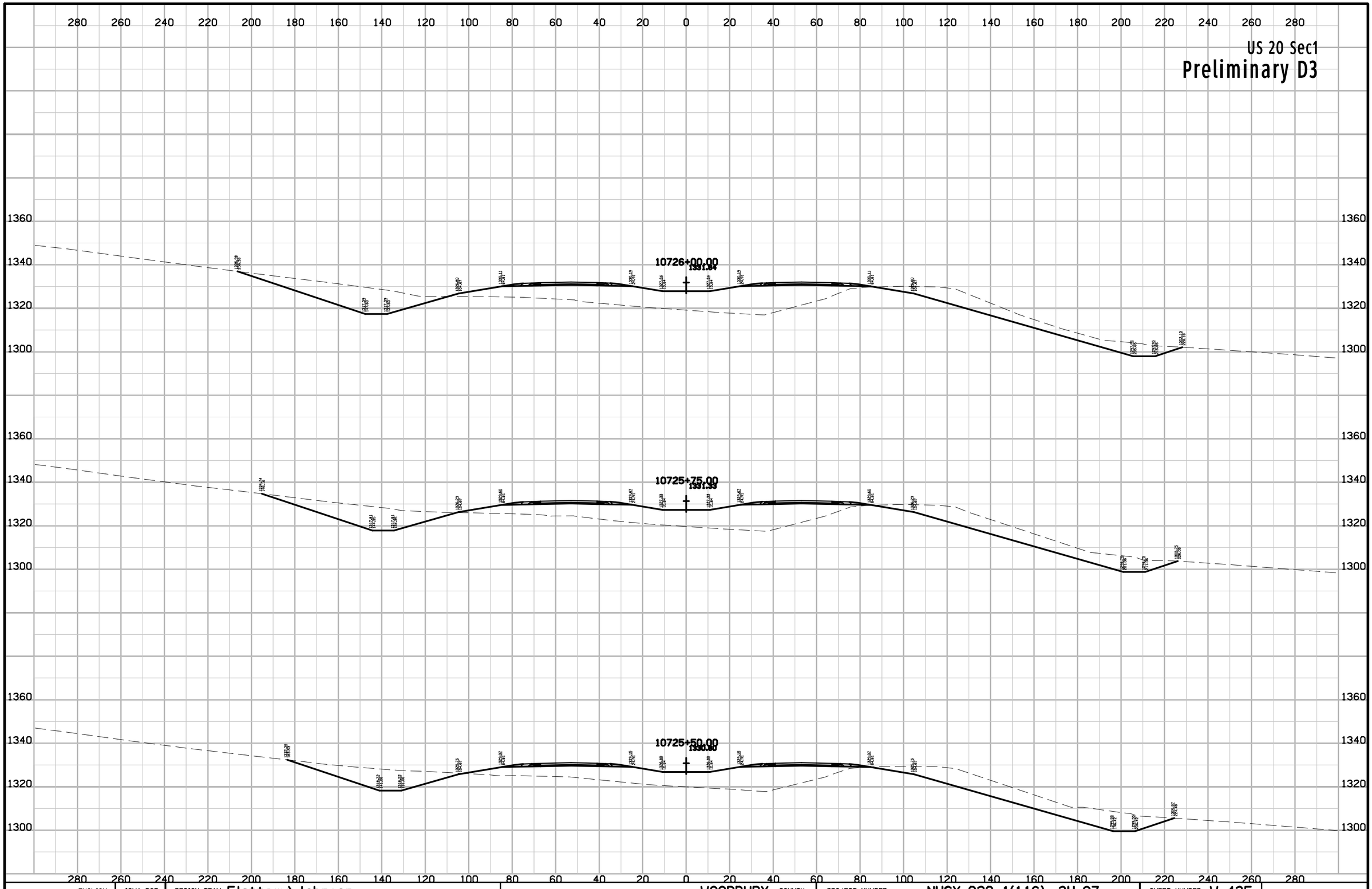


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.434

2:25:33 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

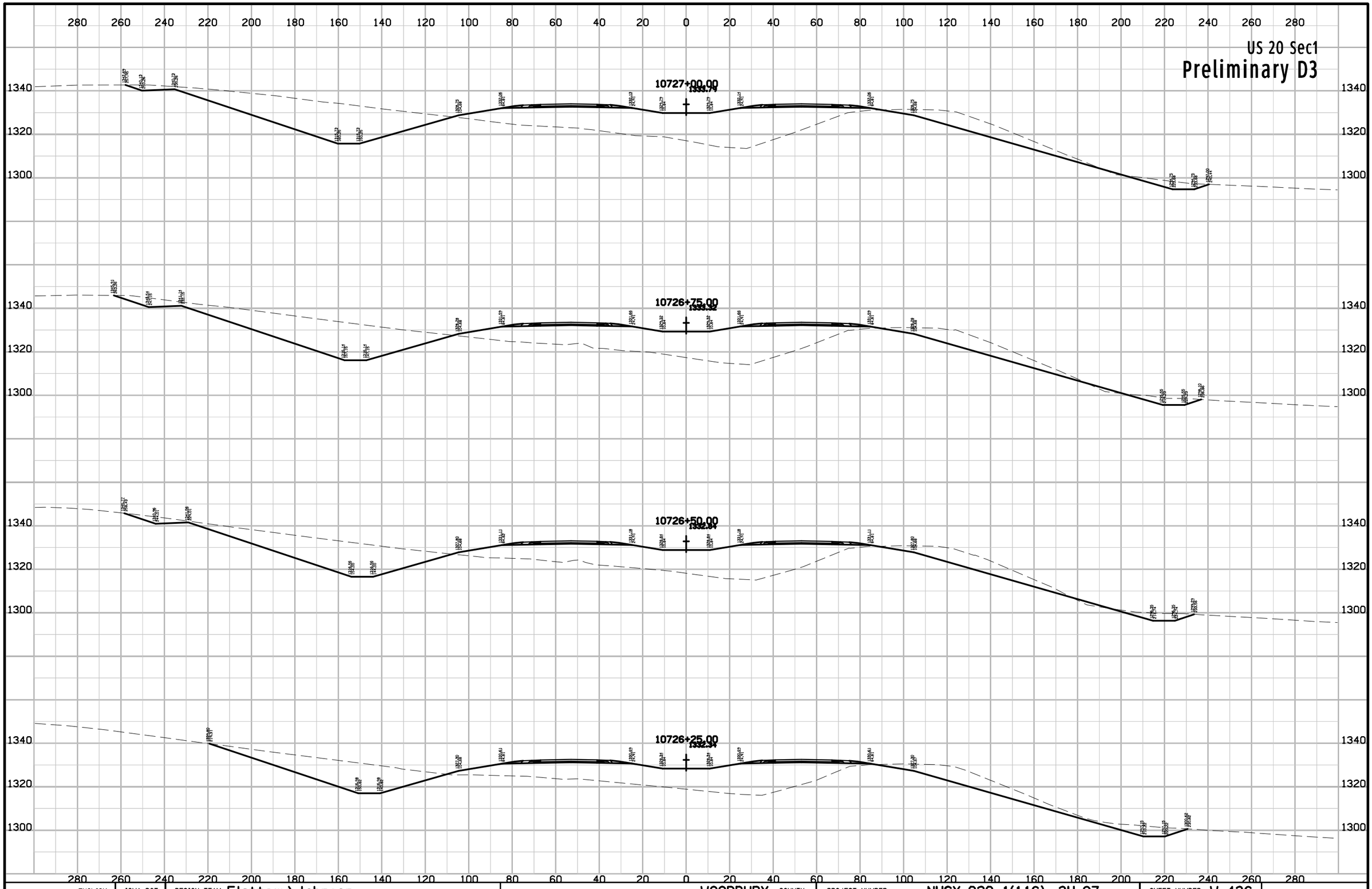


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.435

2:25:34 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

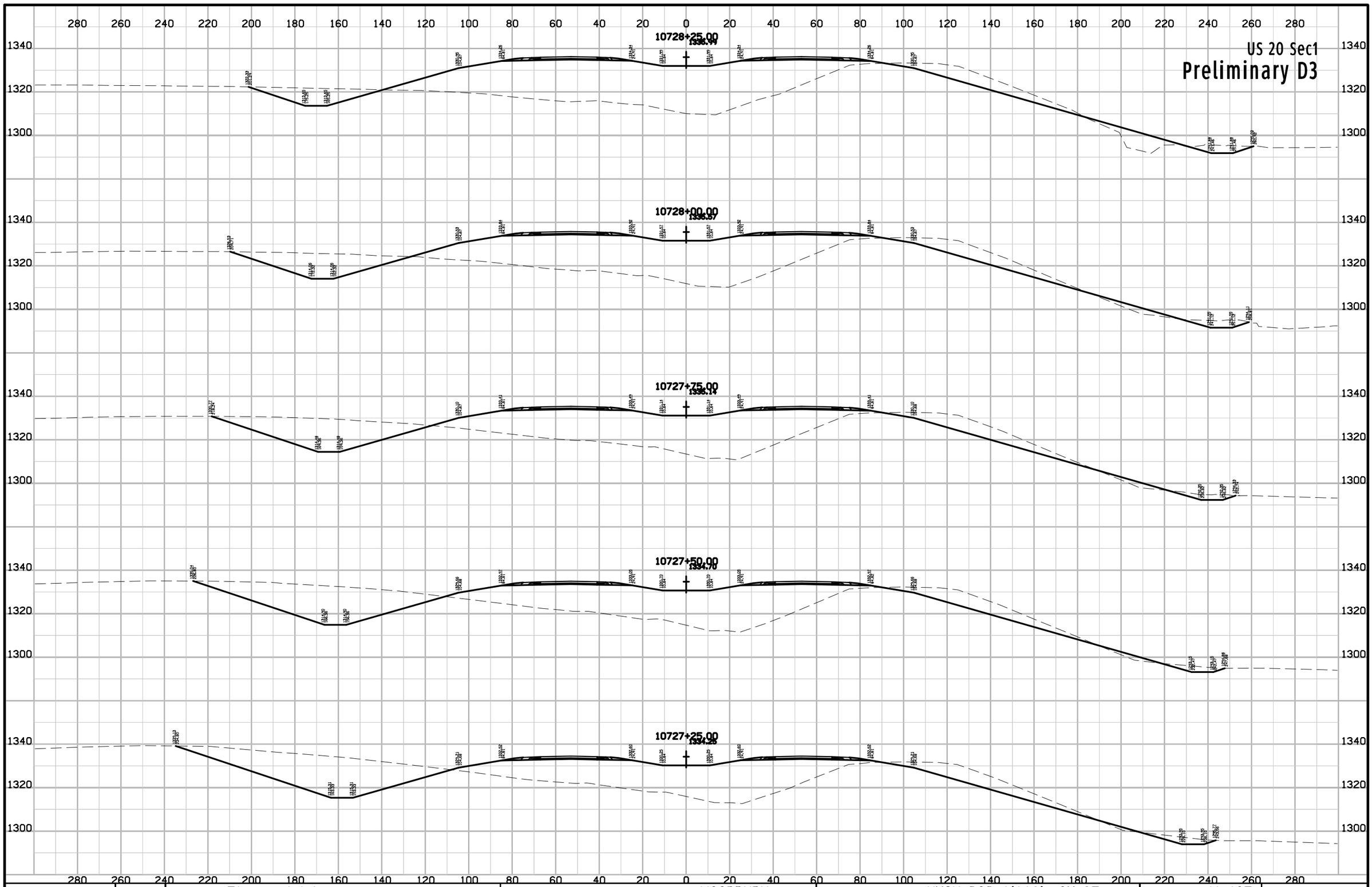


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.436

2:25:34 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

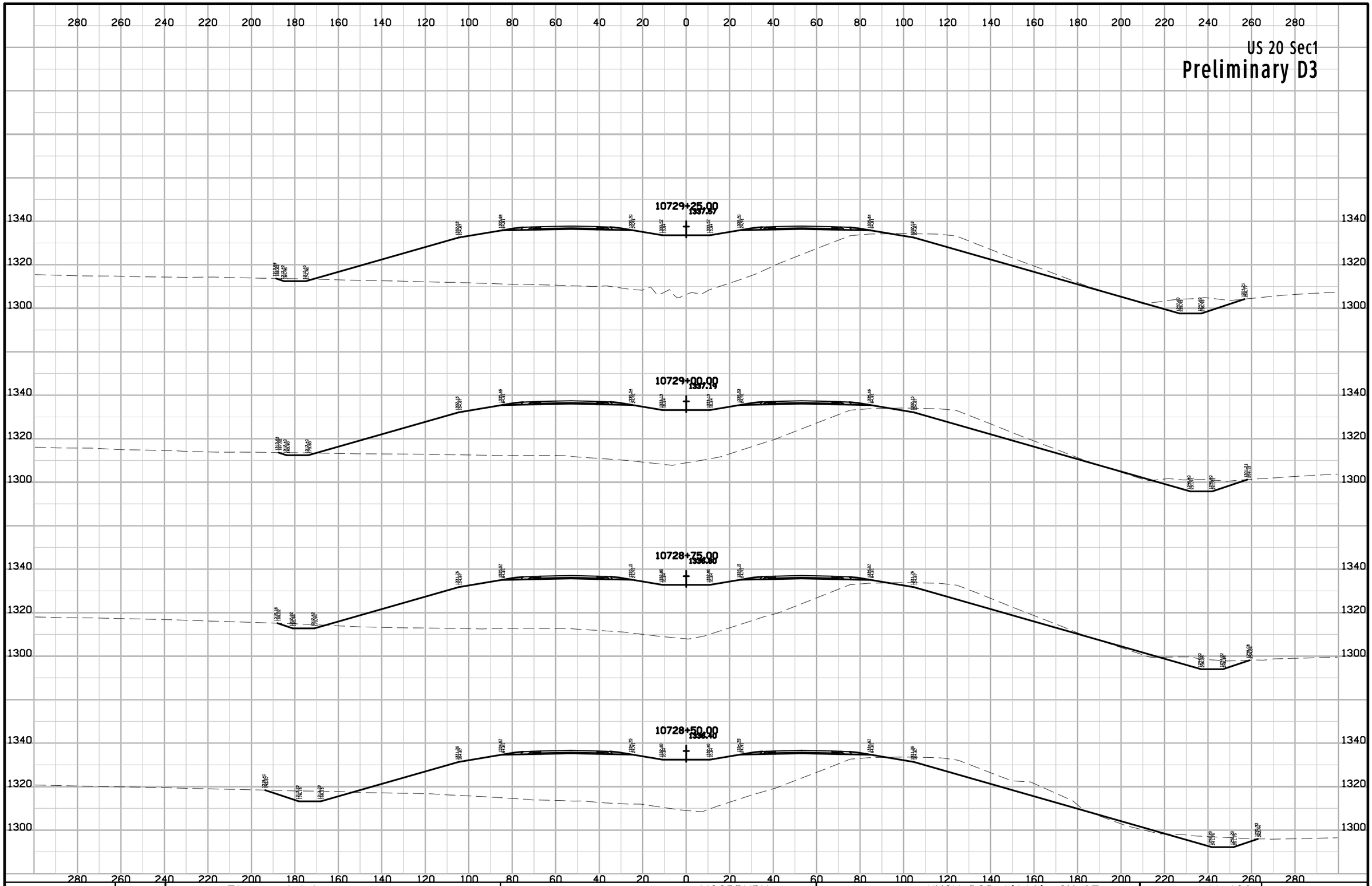


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.437

2:25:35 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

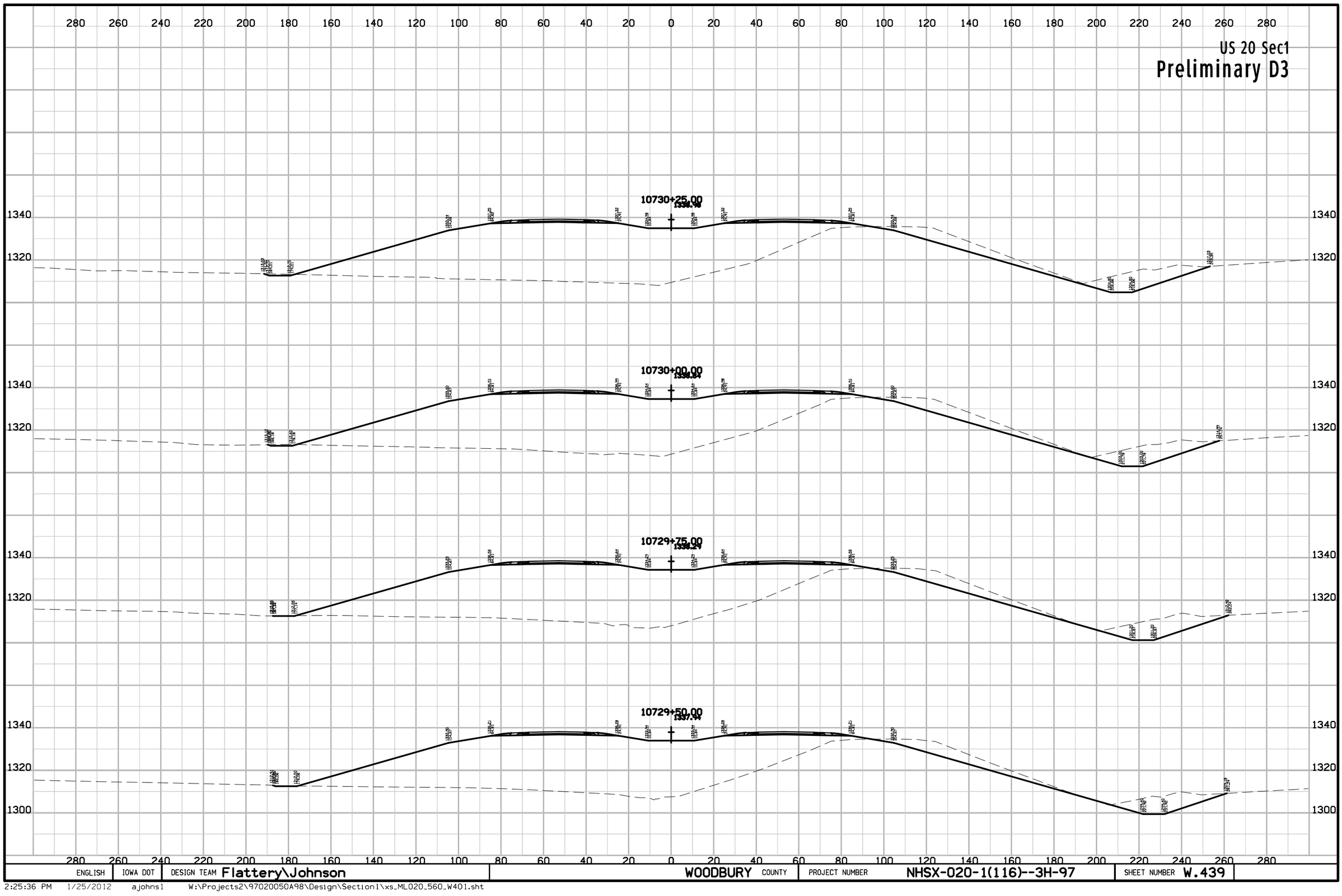


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.438

2:25:35 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

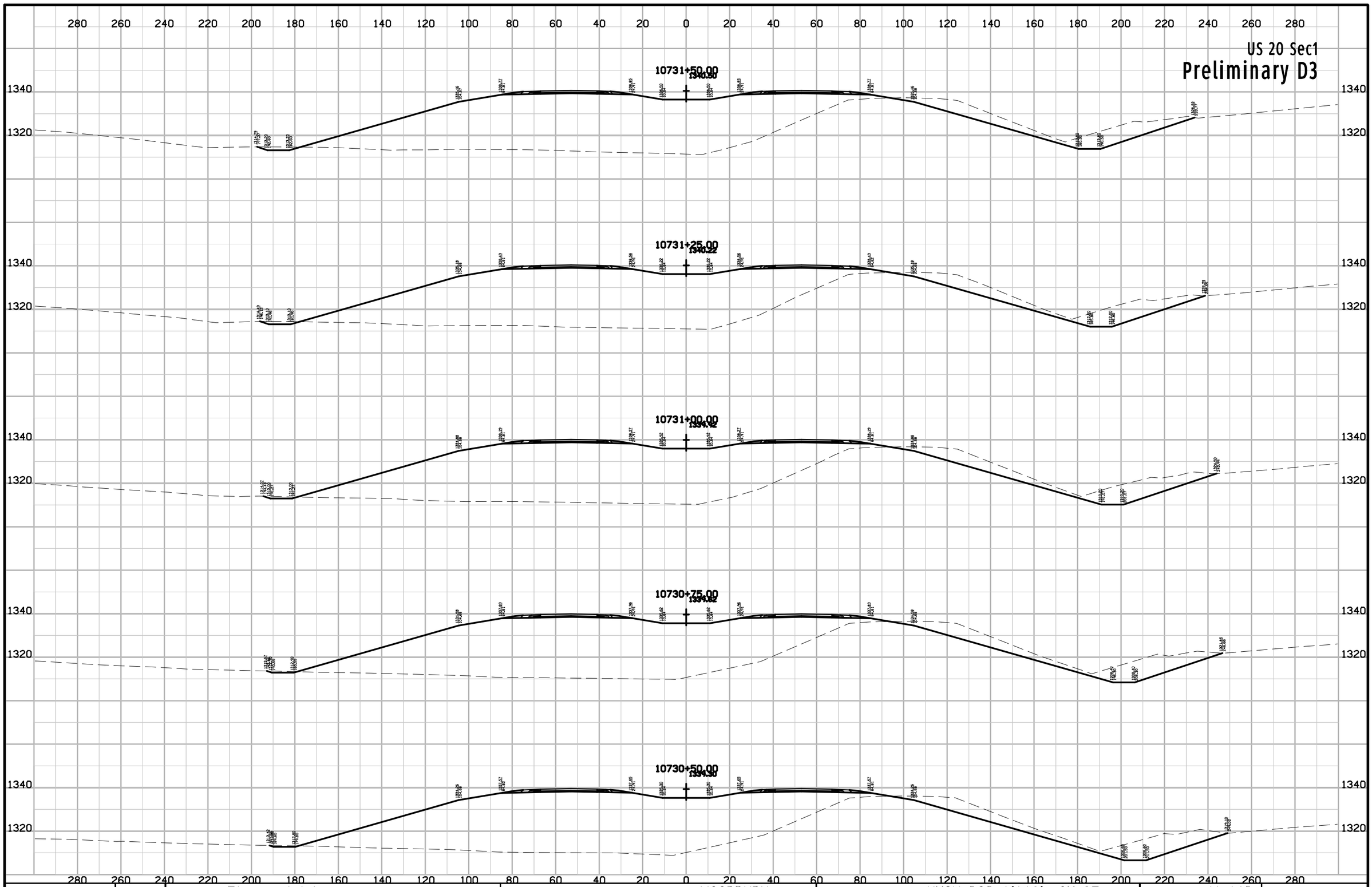


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.439

2:25:36 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

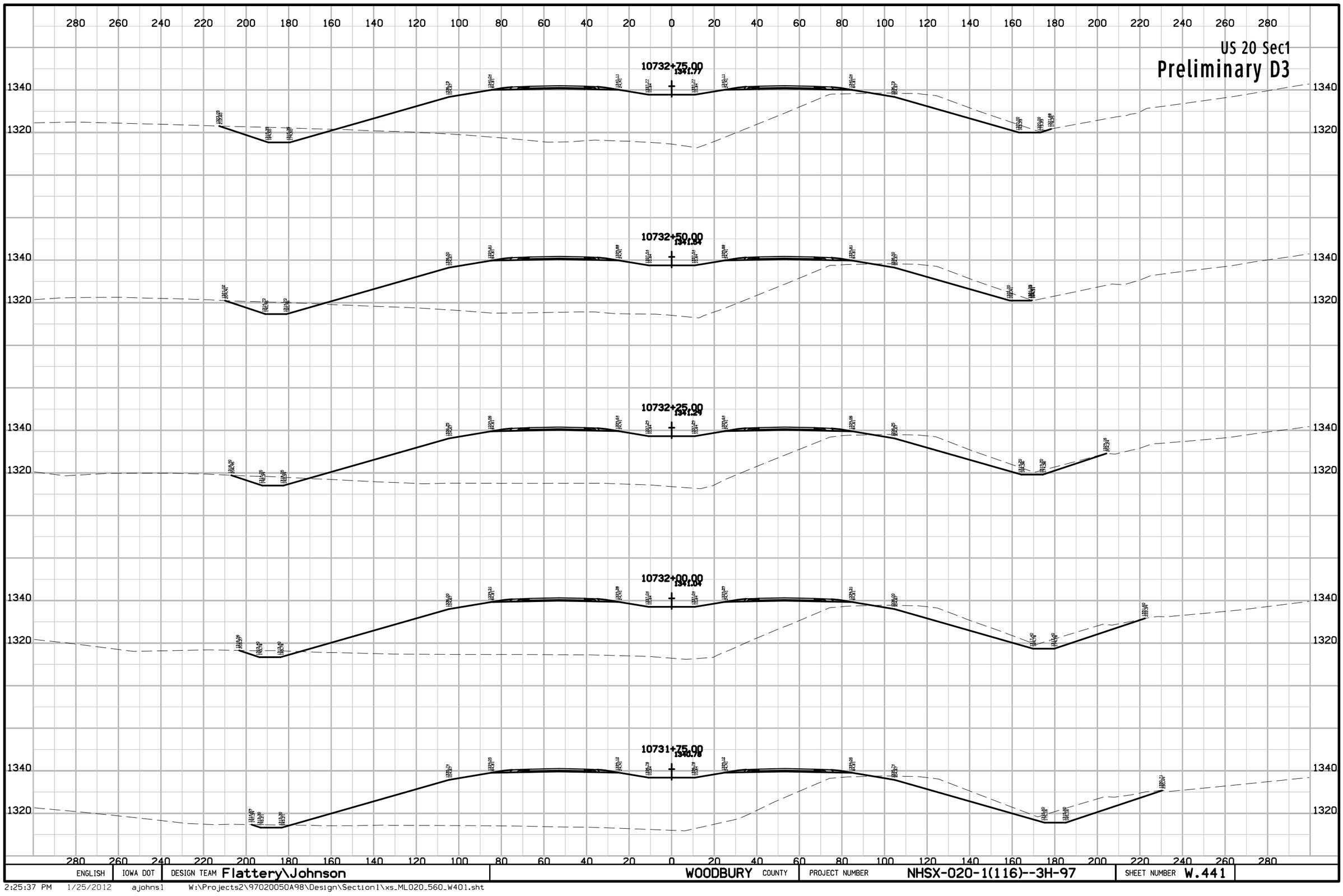


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.440

2:25:37 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

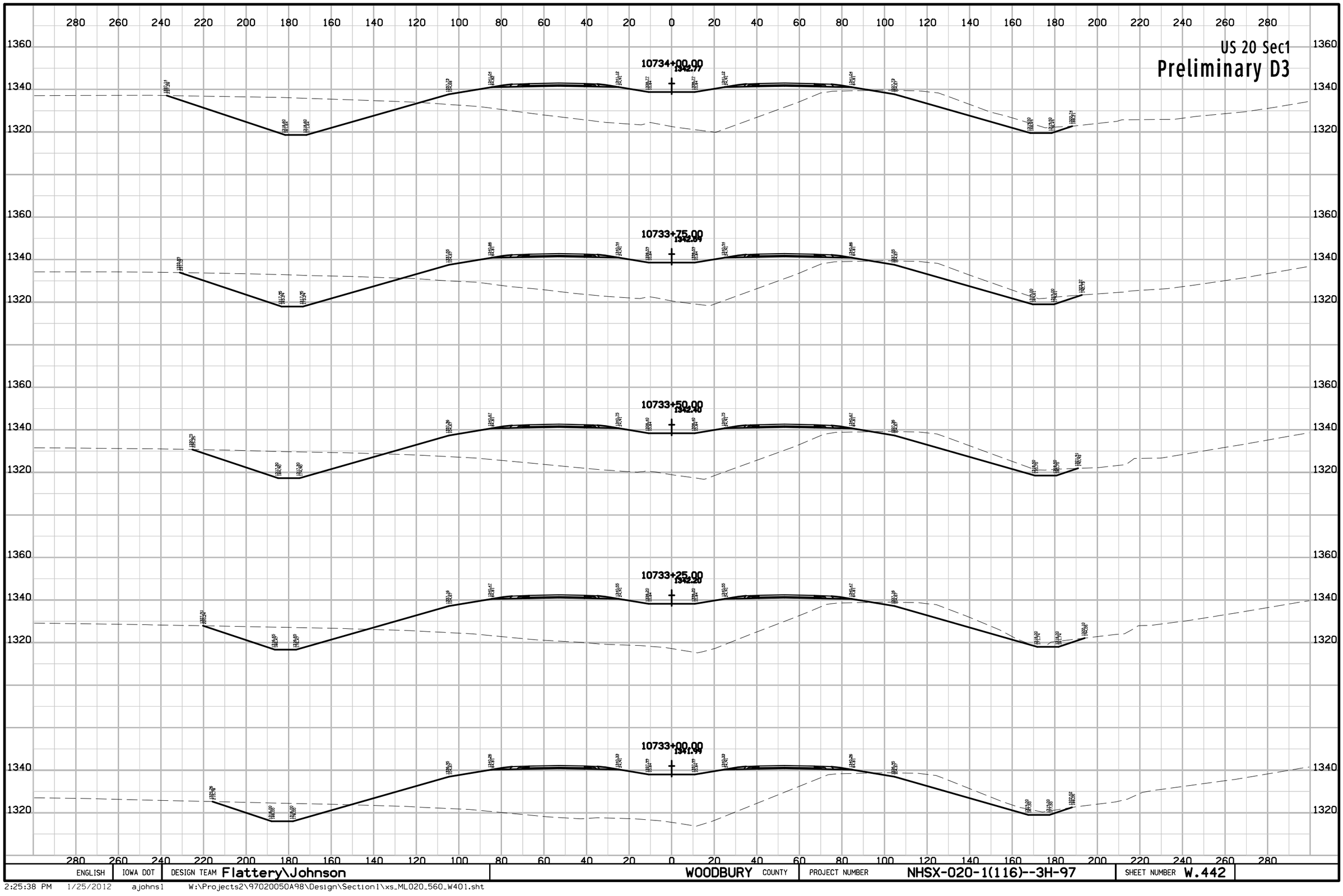


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.441

2:25:37 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

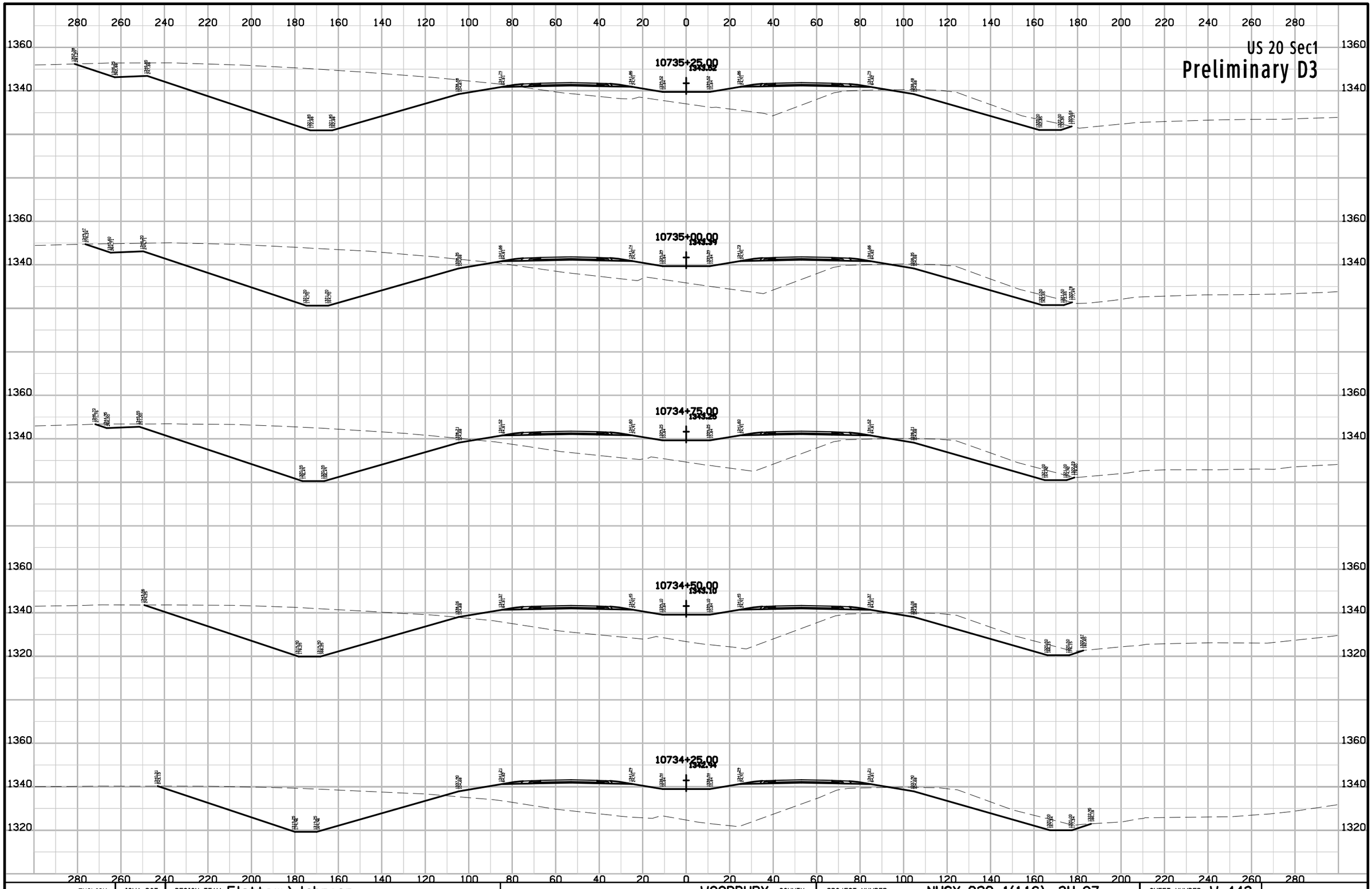


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.442

2:25:38 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.443

2:25:39 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260

1360
1340

10736+50.00
1344.00

10736+25.00
1343.43

10736+00.00
1343.04

10735+75.00
1343.74

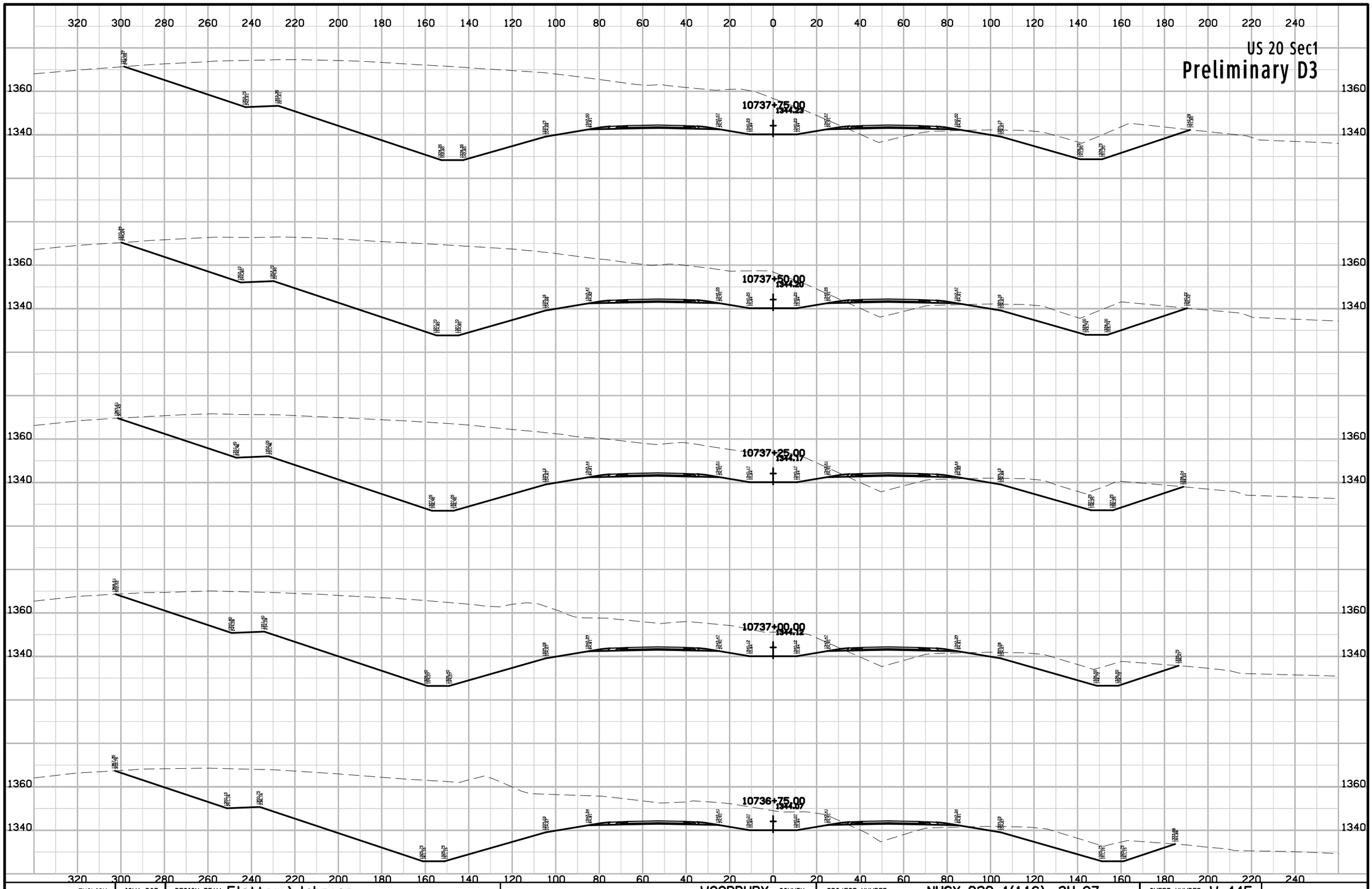
10735+50.00
1343.84

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.444

2:25:39 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

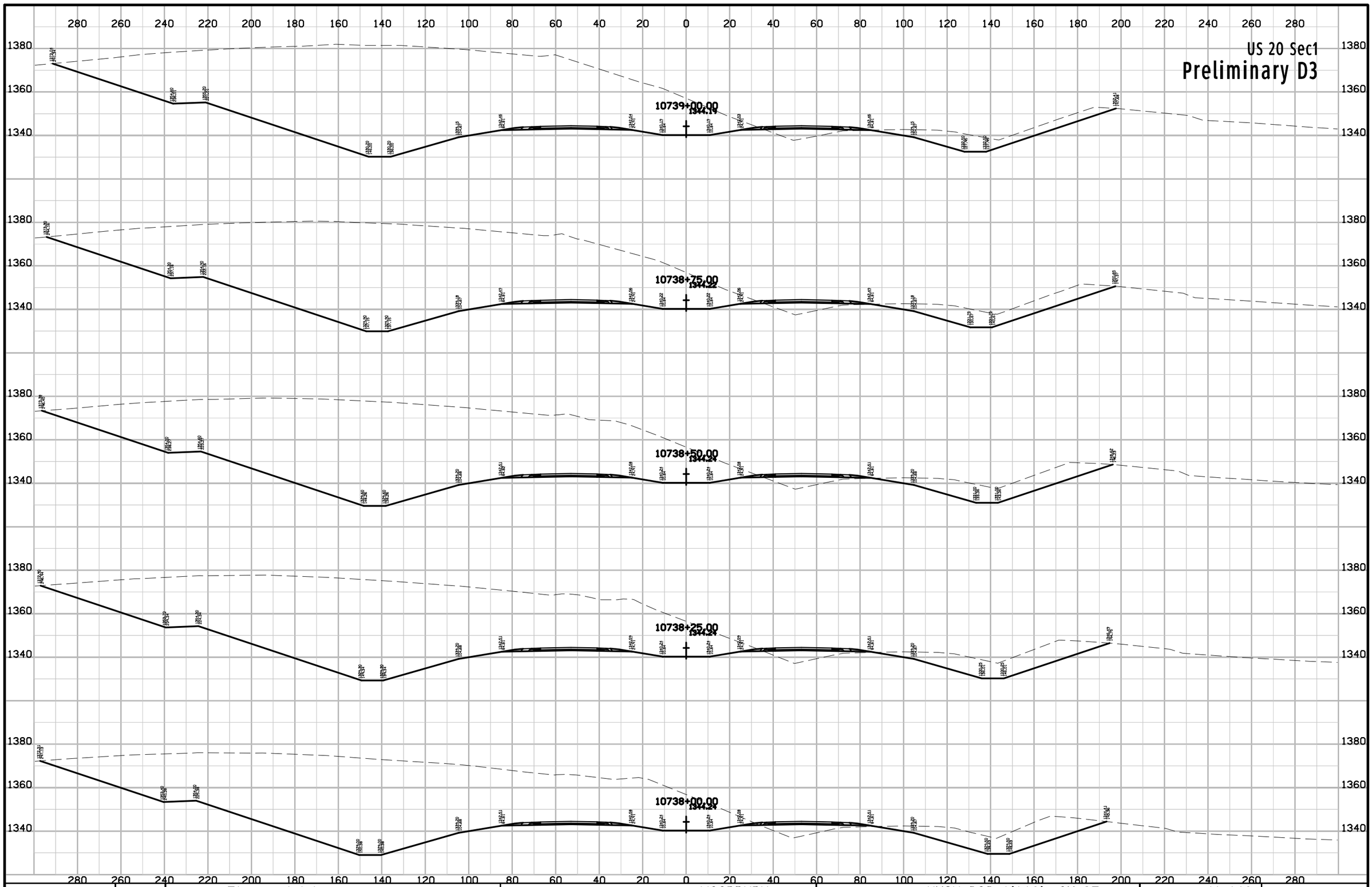


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.445

2:25:40 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

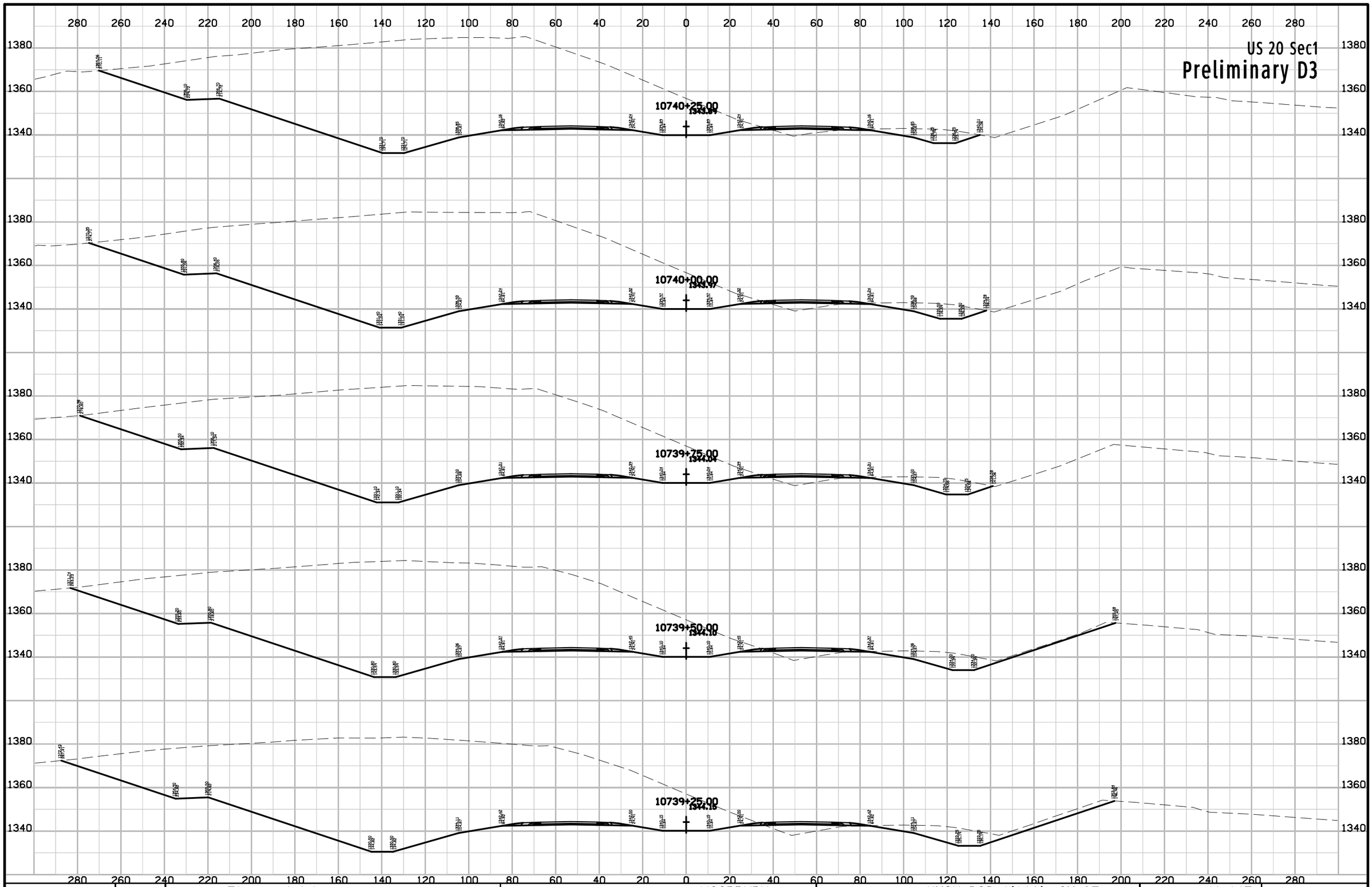


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.446

2:25:40 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

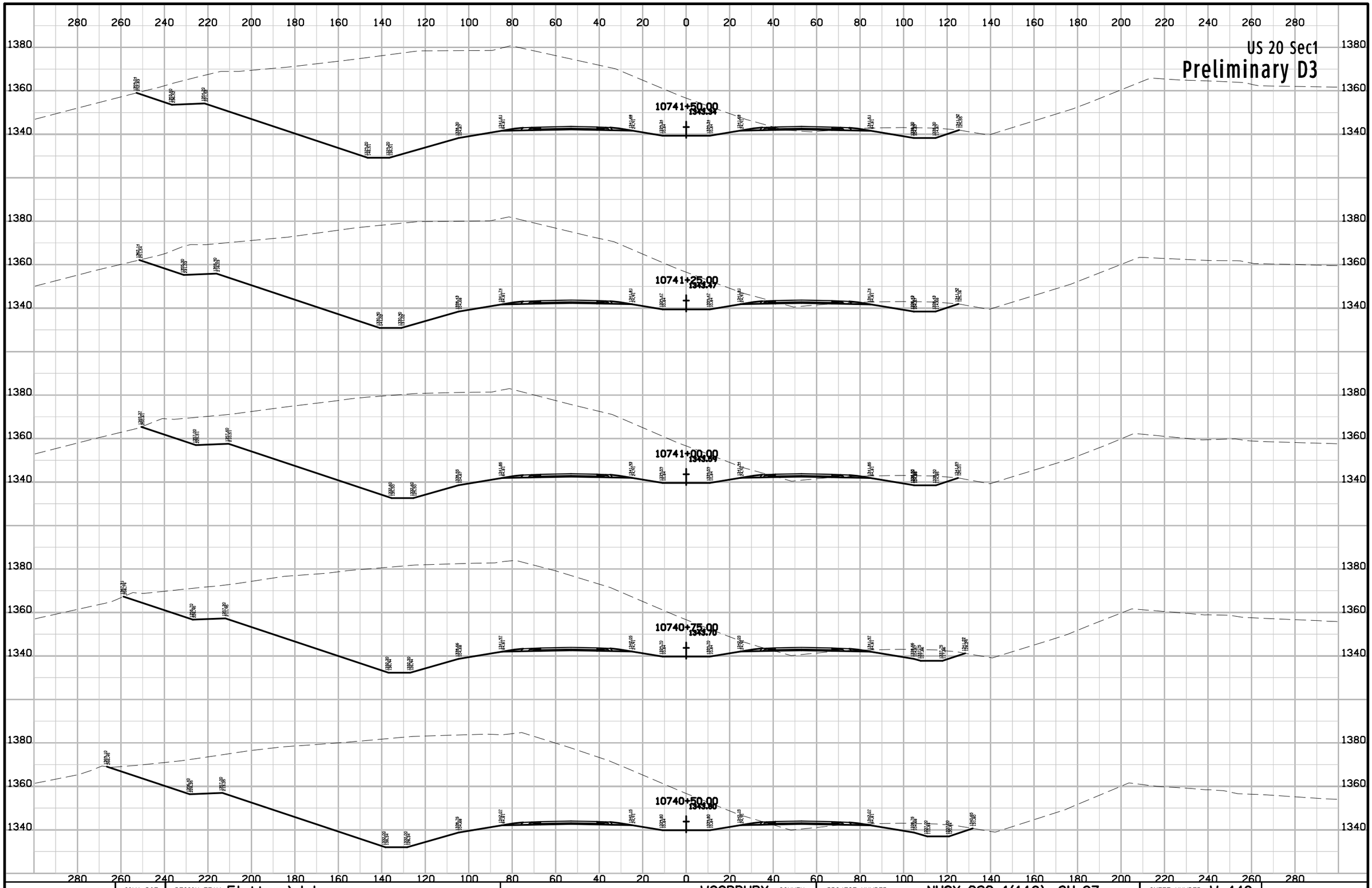


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.447

2:25:41 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

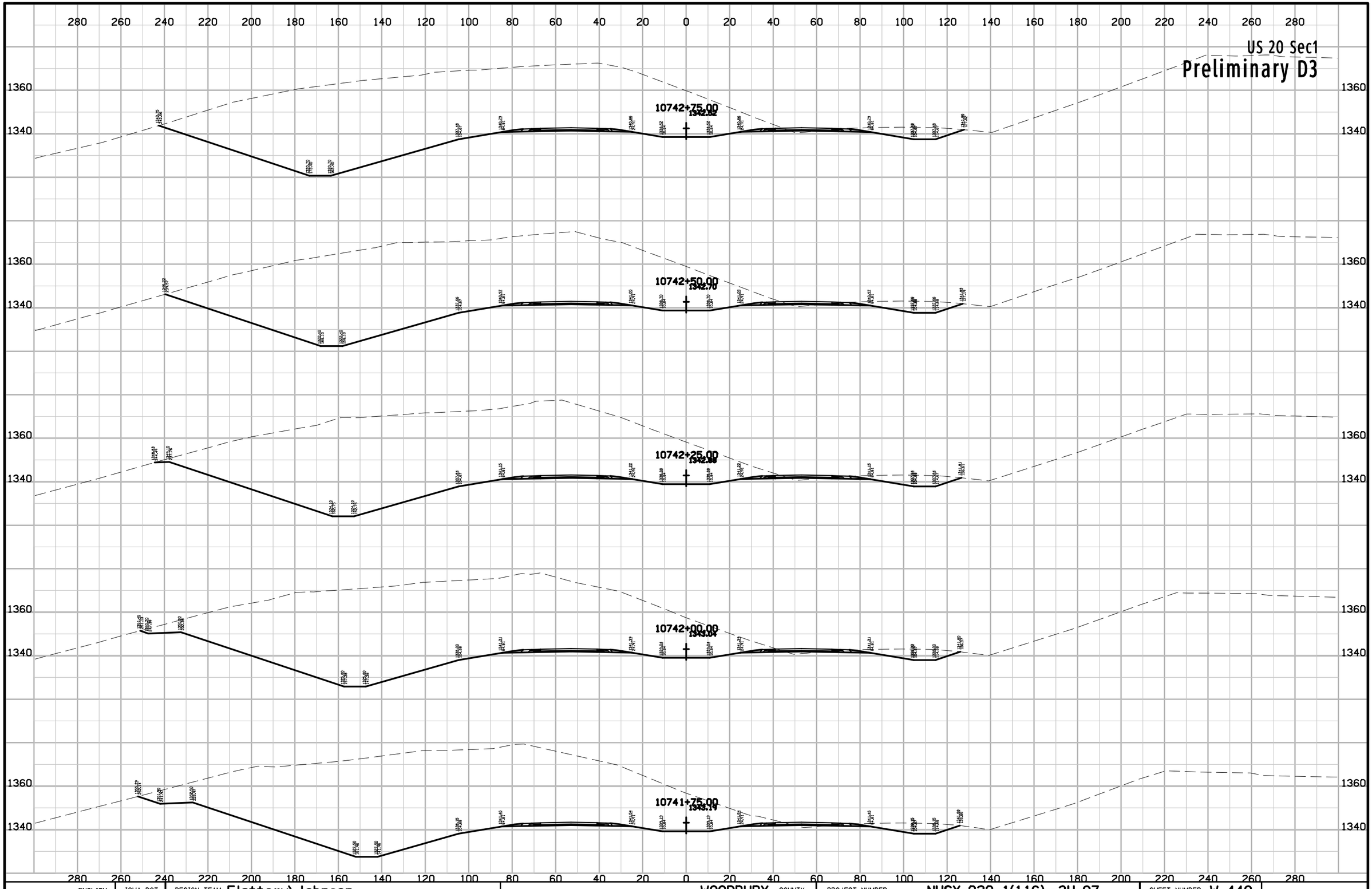


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.448

2:25:42 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

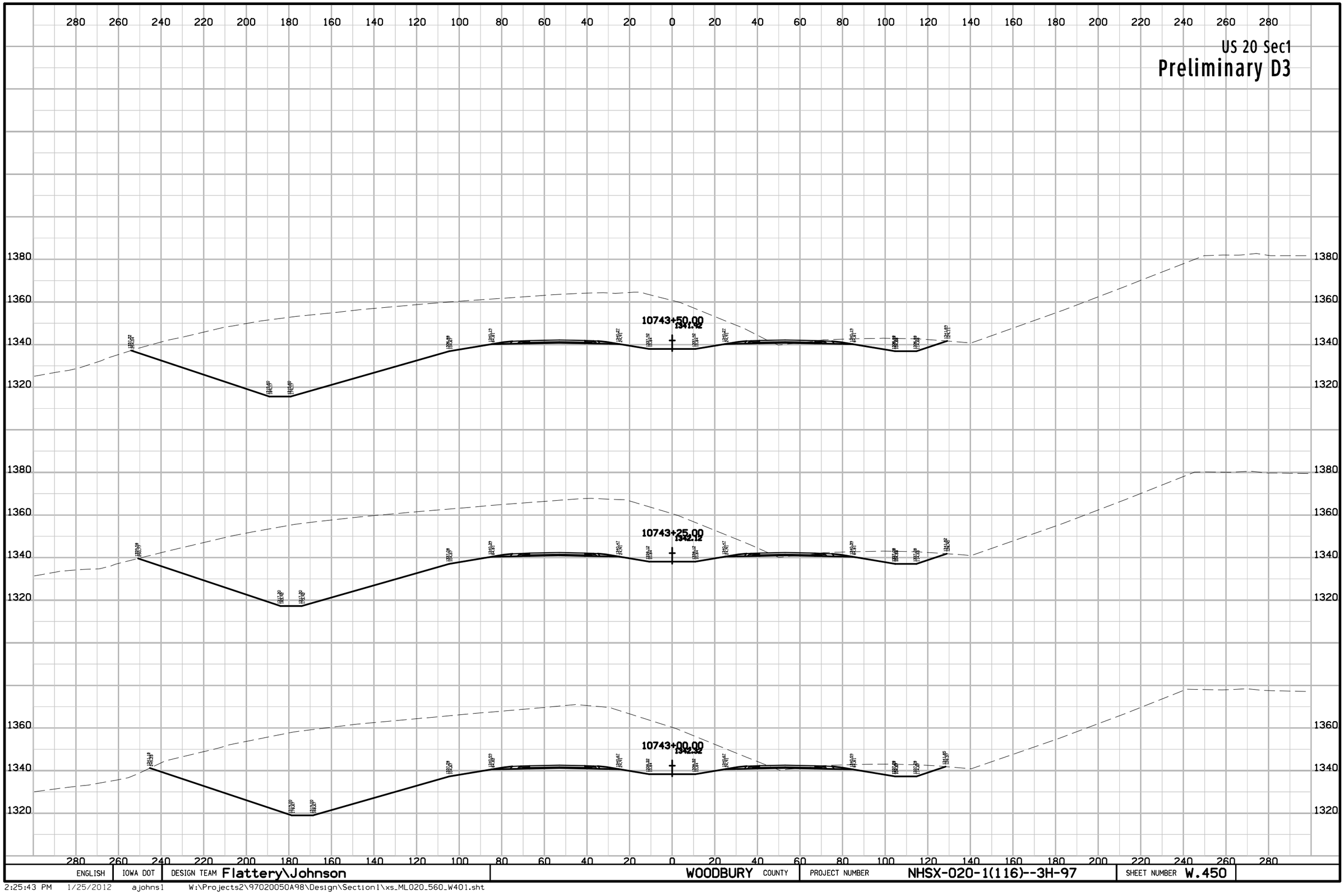


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.449

2:25:42 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

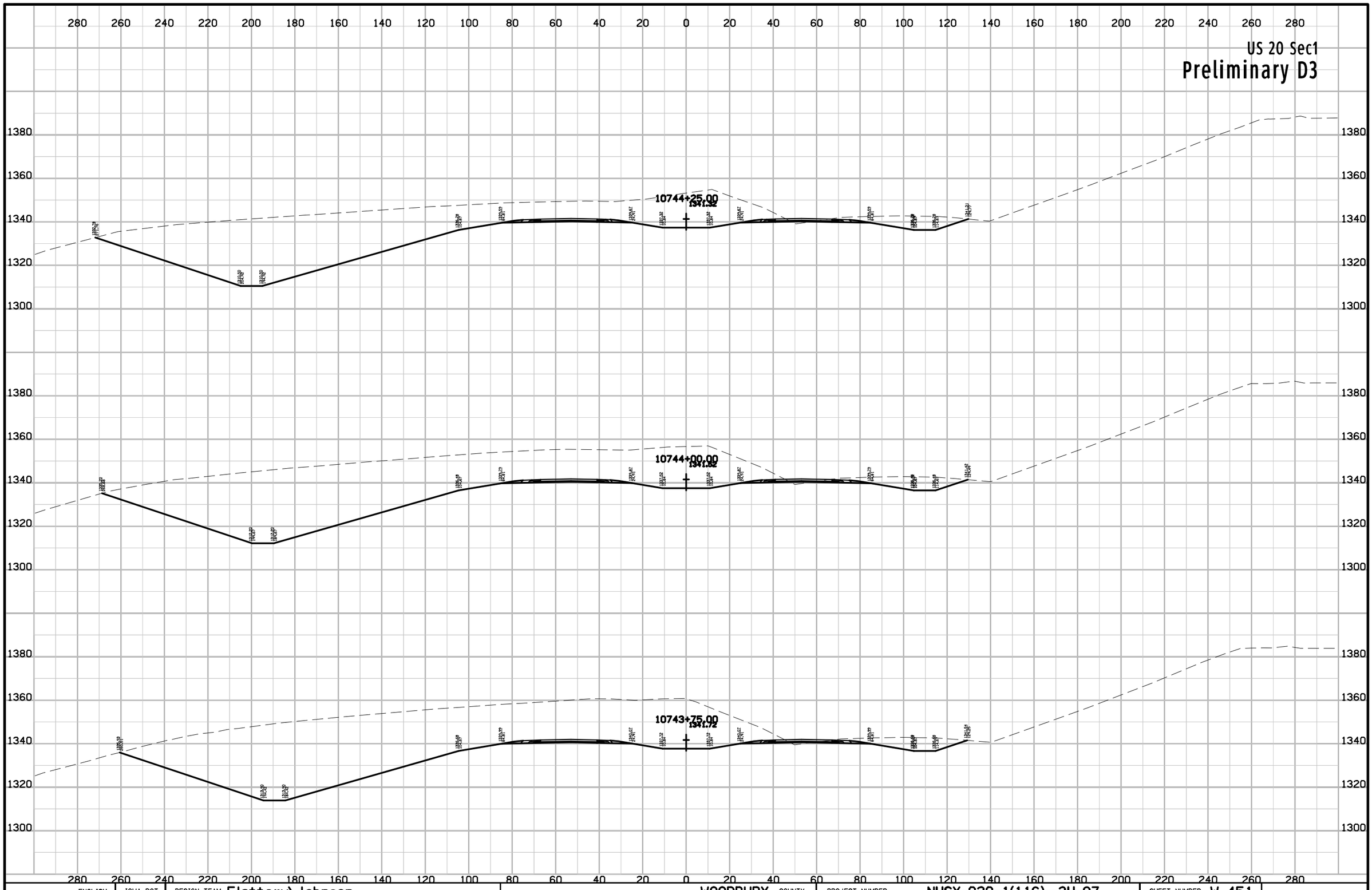


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.450

2:25:43 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

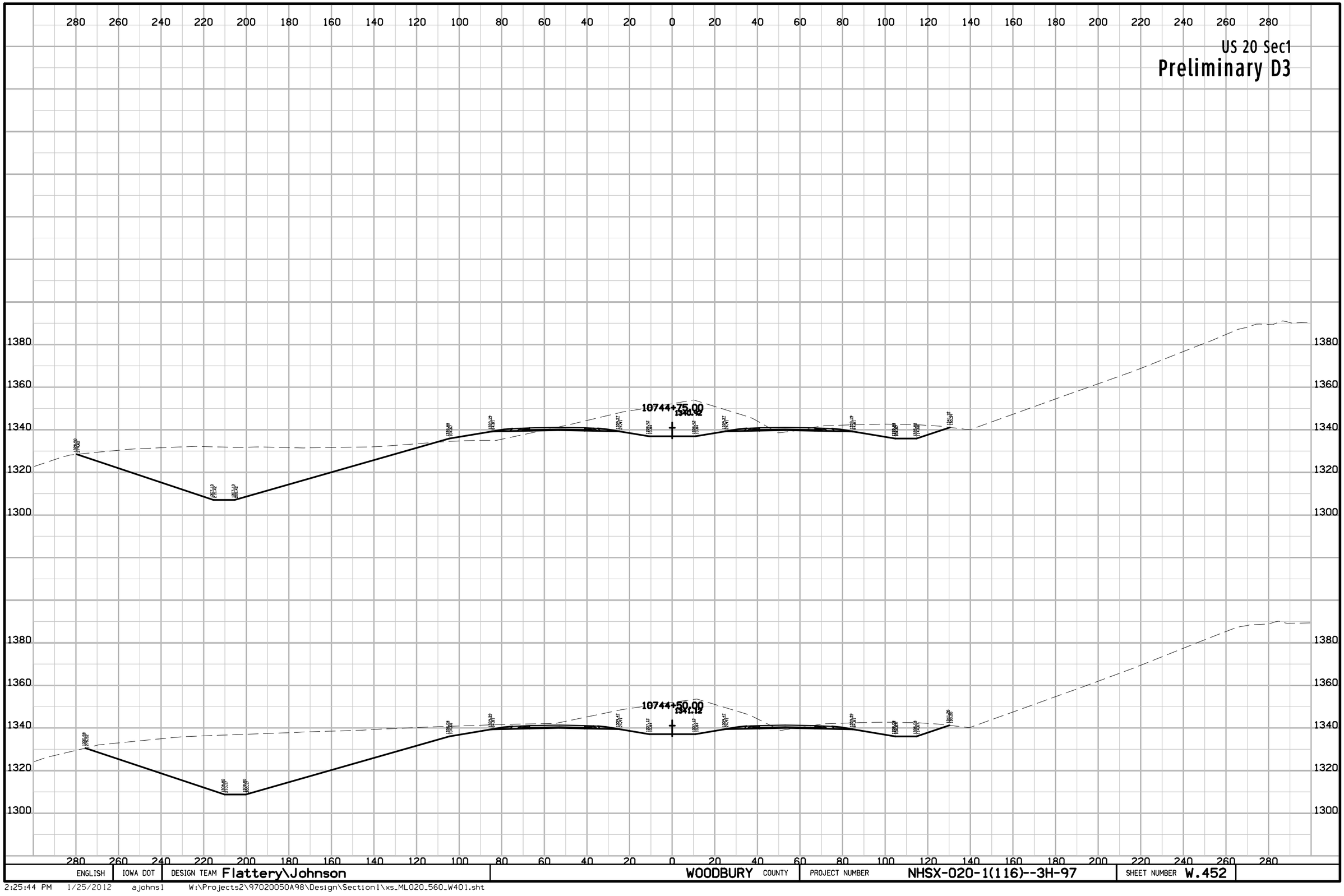


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.451

2:25:44 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

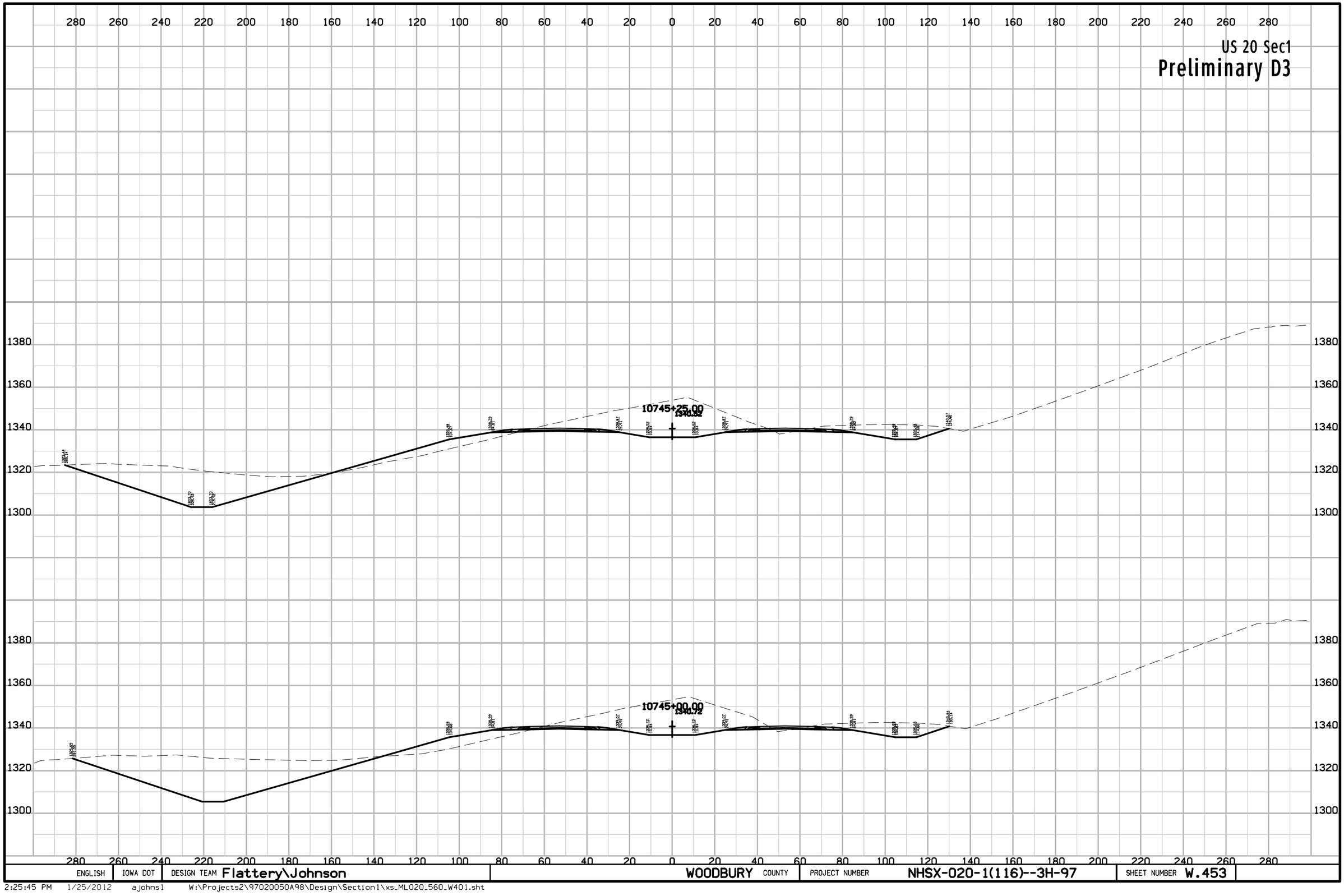


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.452

2:25:44 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

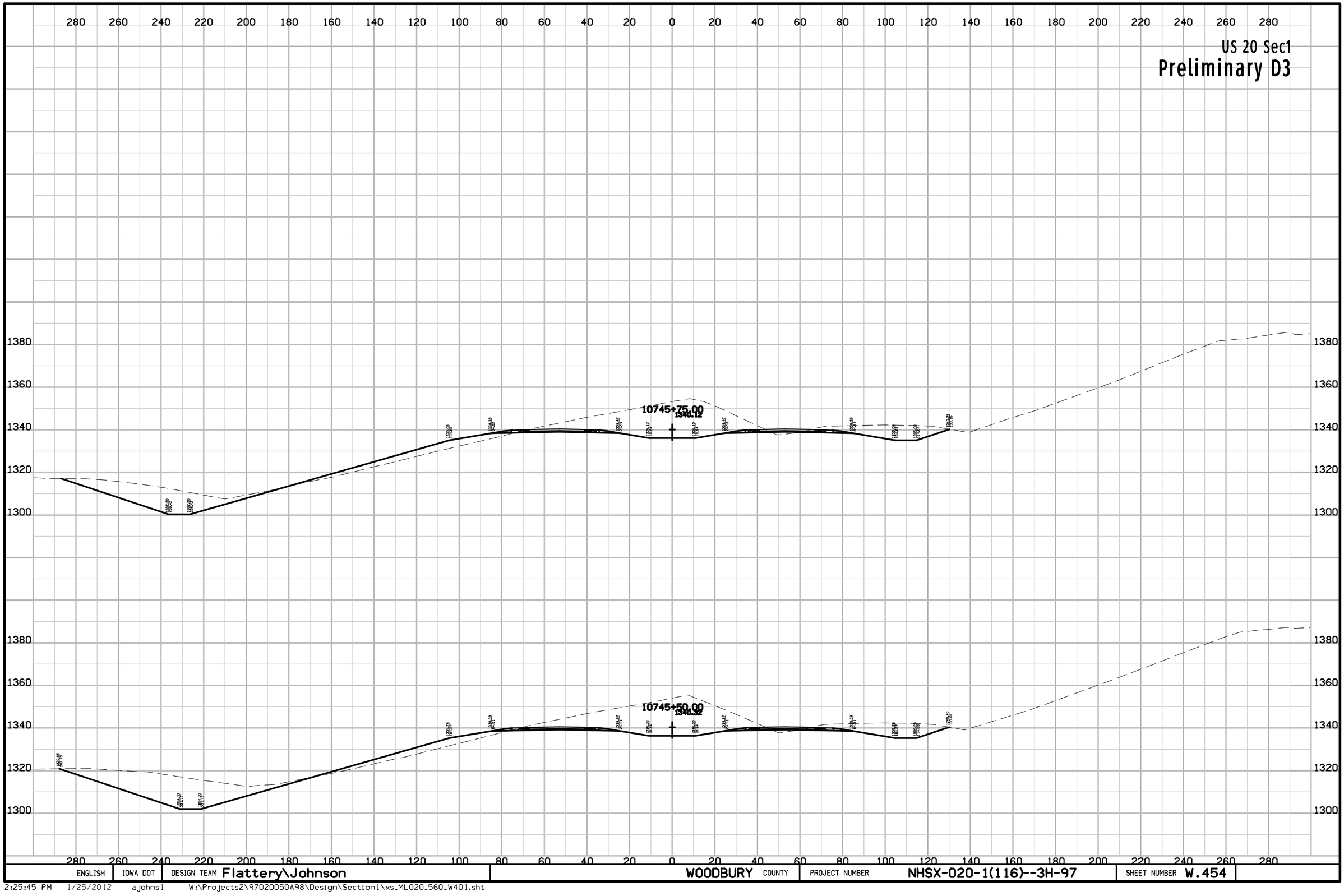


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.453

2:25:45 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

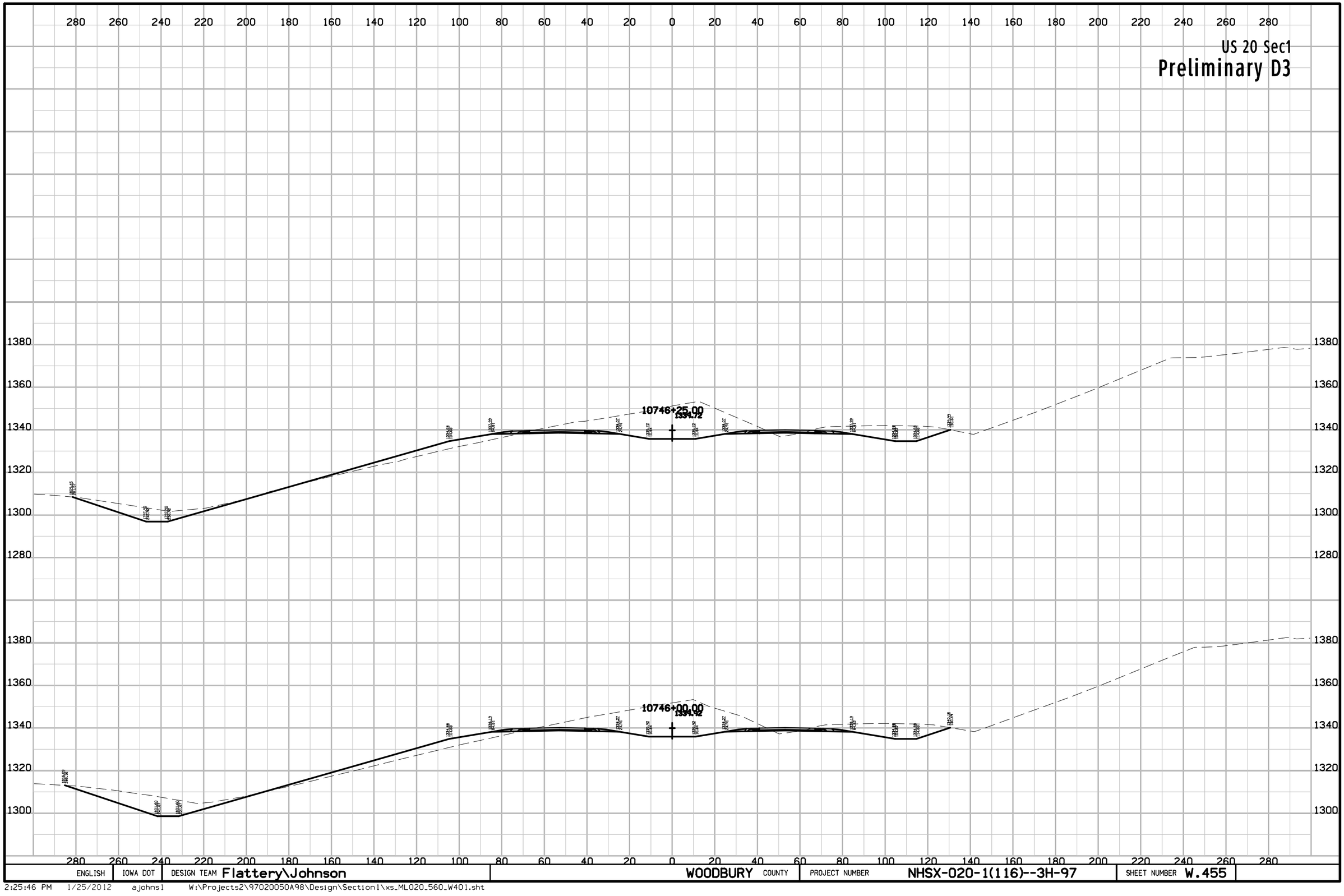


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.454

2:25:45 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

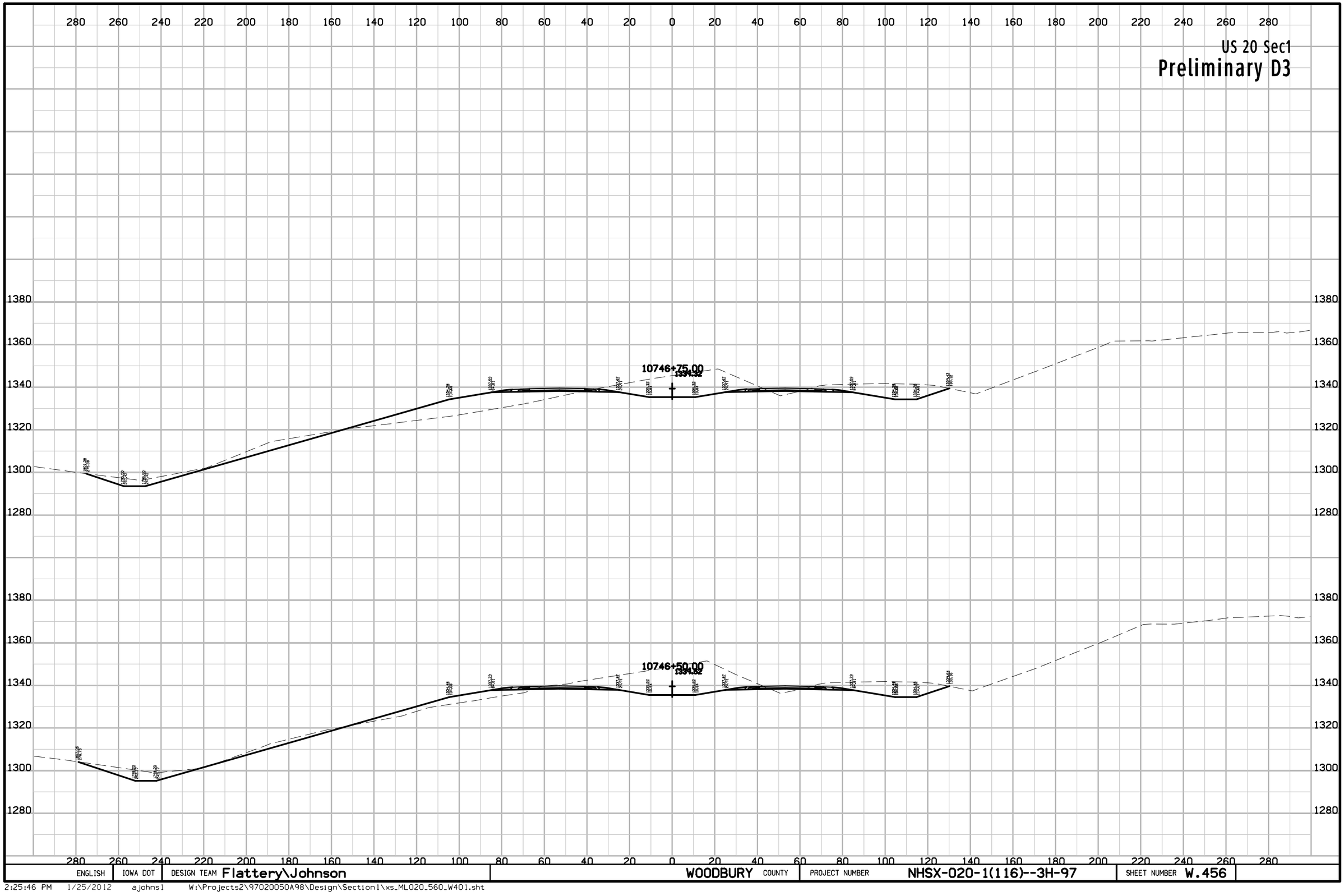


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.455

2:25:46 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

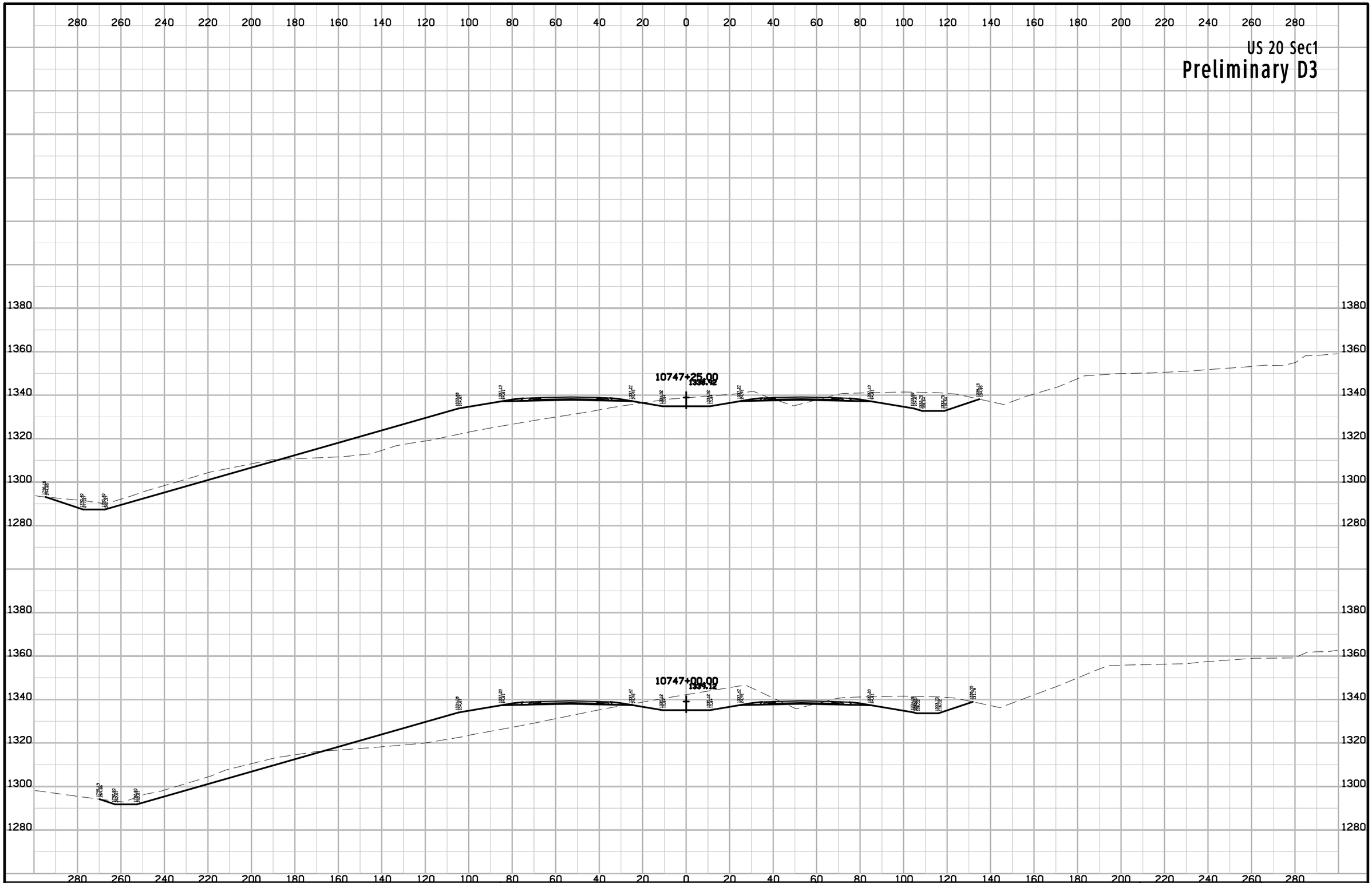


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.456

2:25:46 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

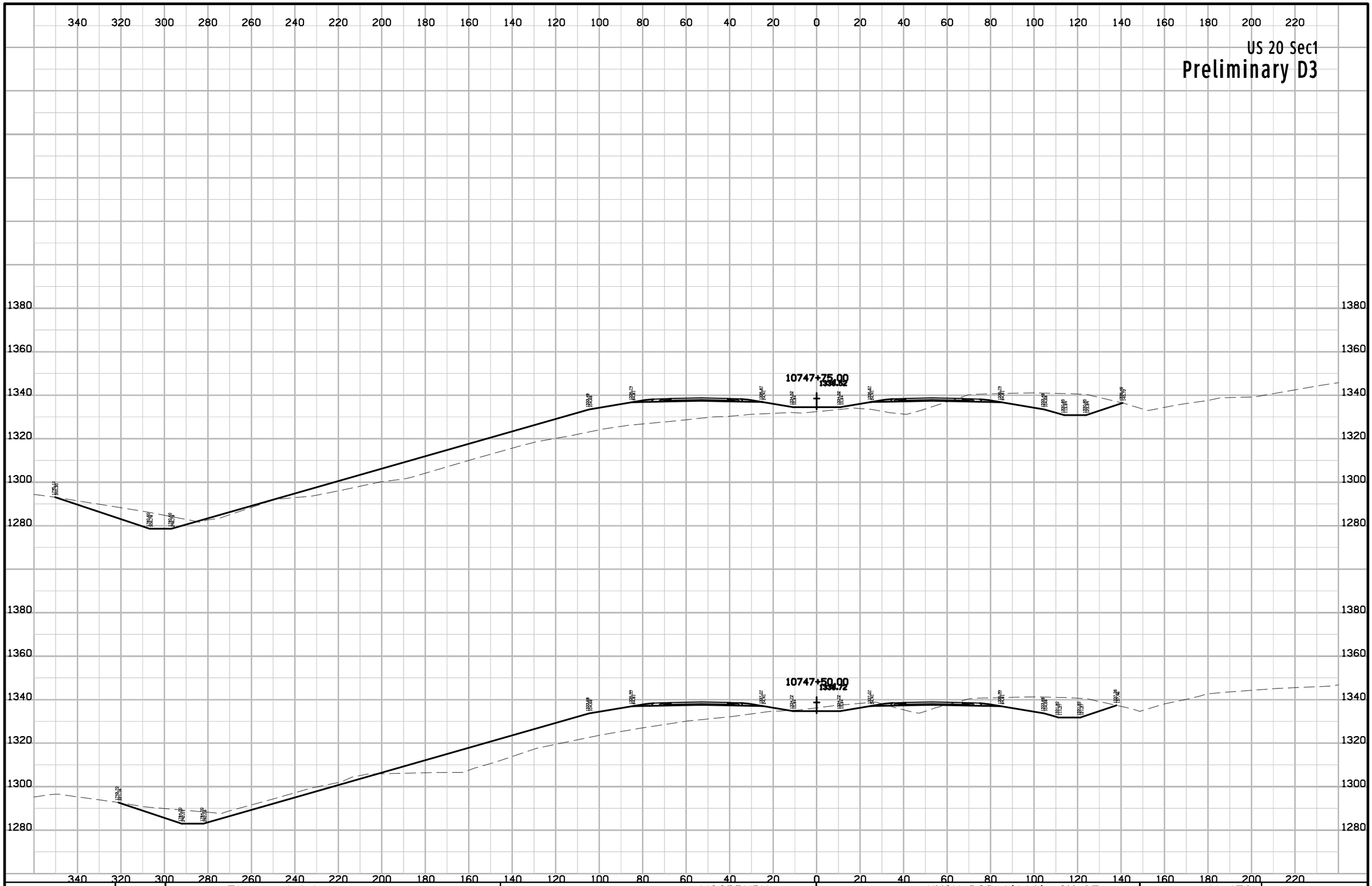


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.457

2:25:47 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

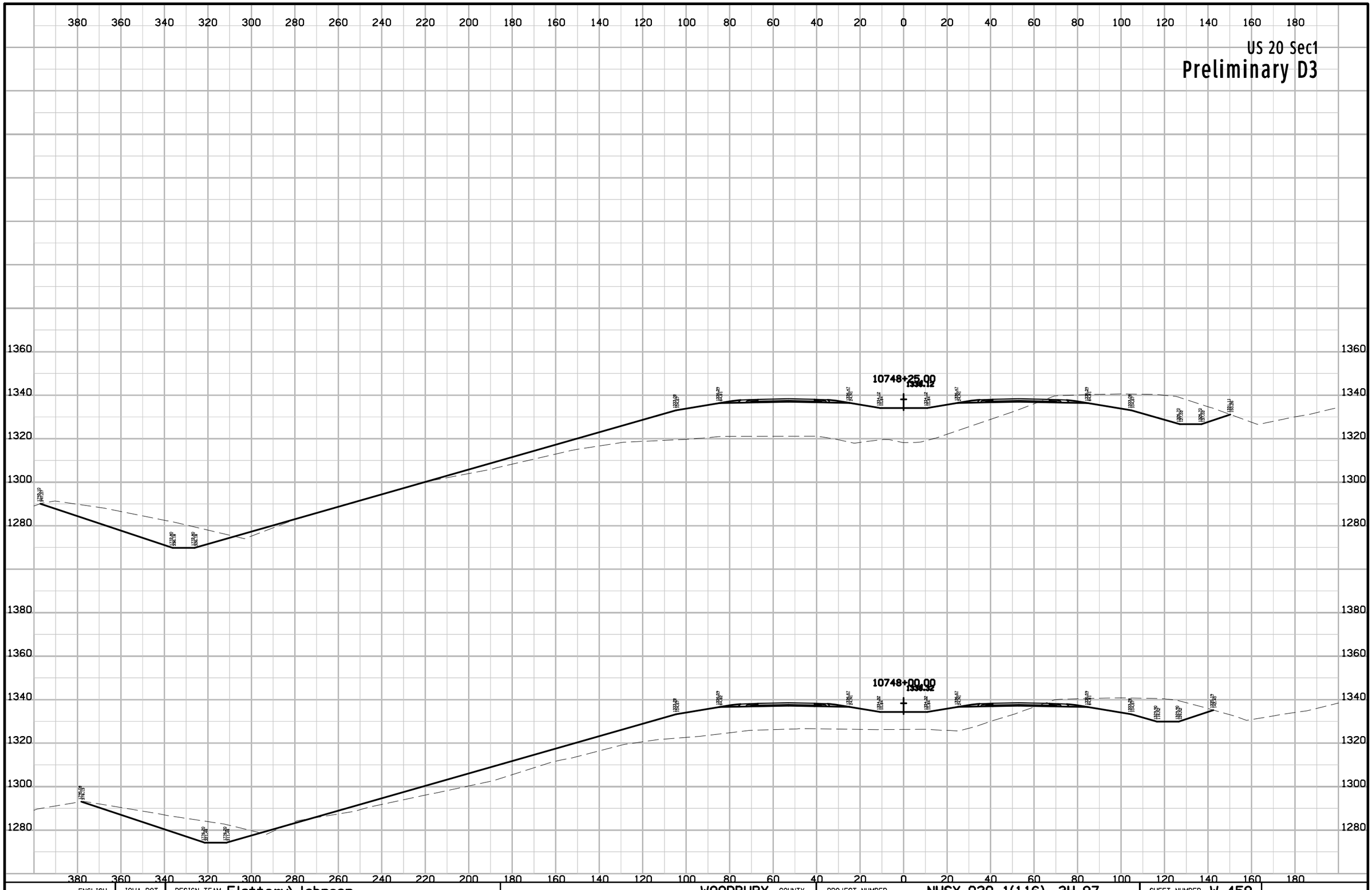


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.458

2:25:48 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

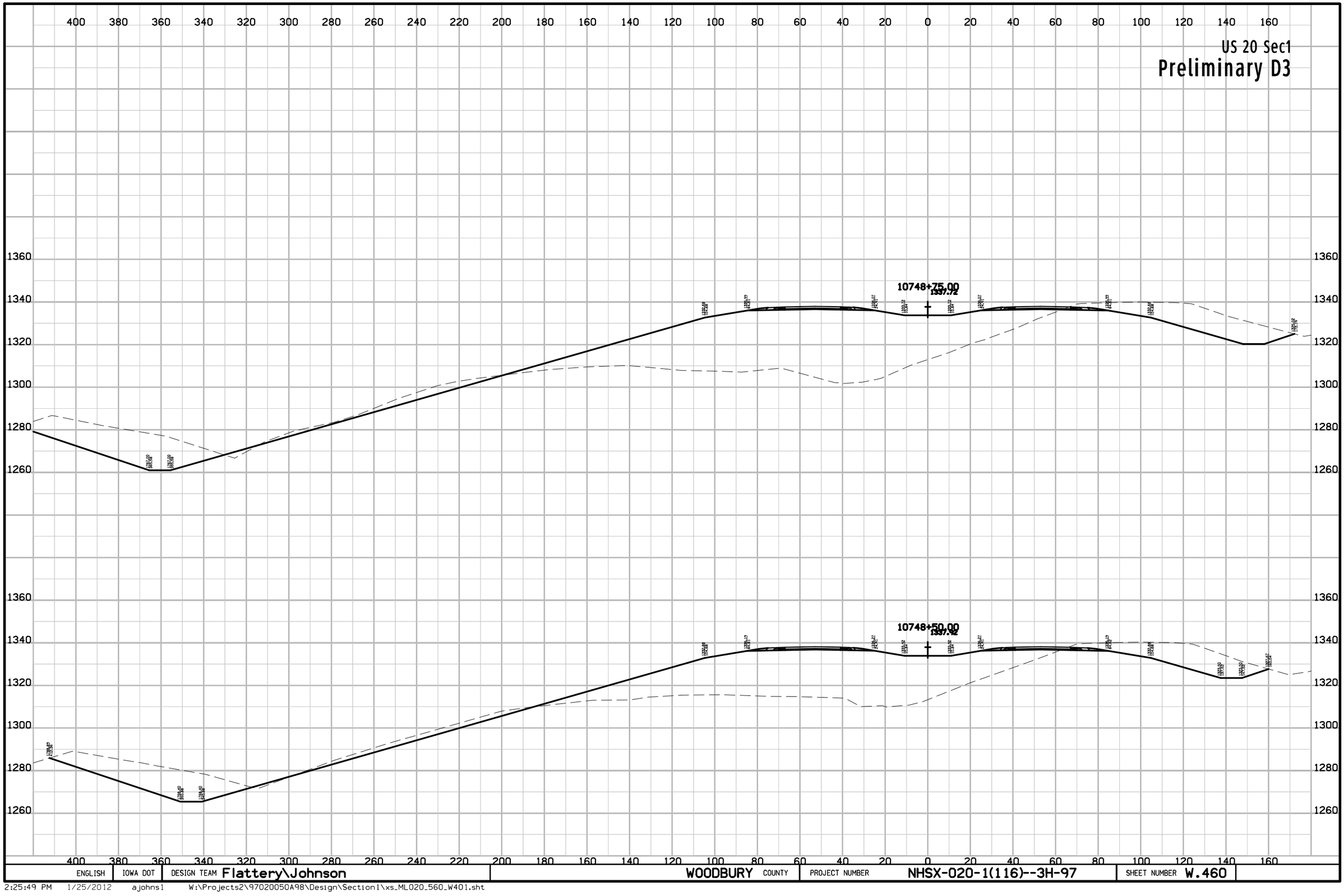


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.459

2:25:48 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

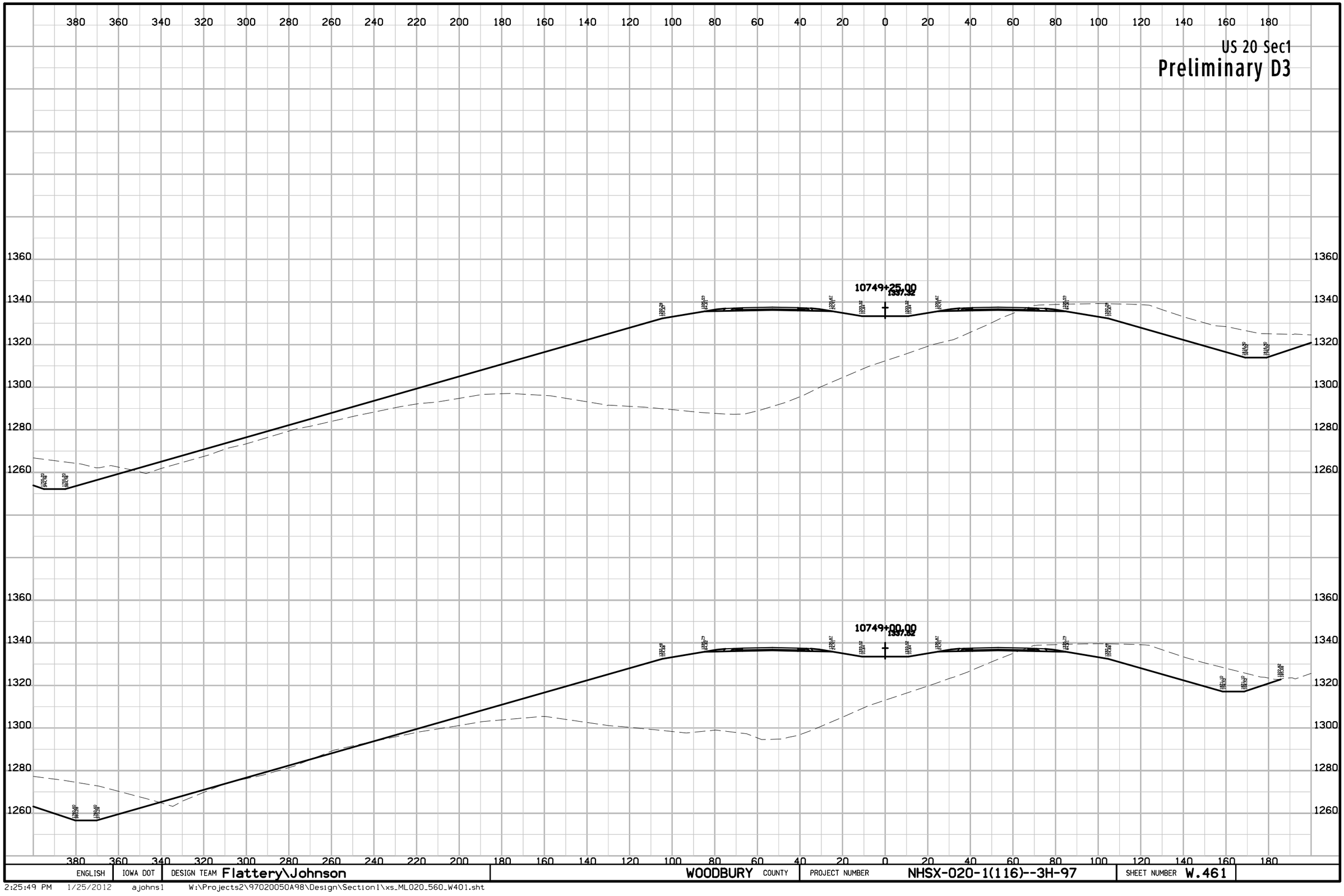


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.460

2:25:49 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

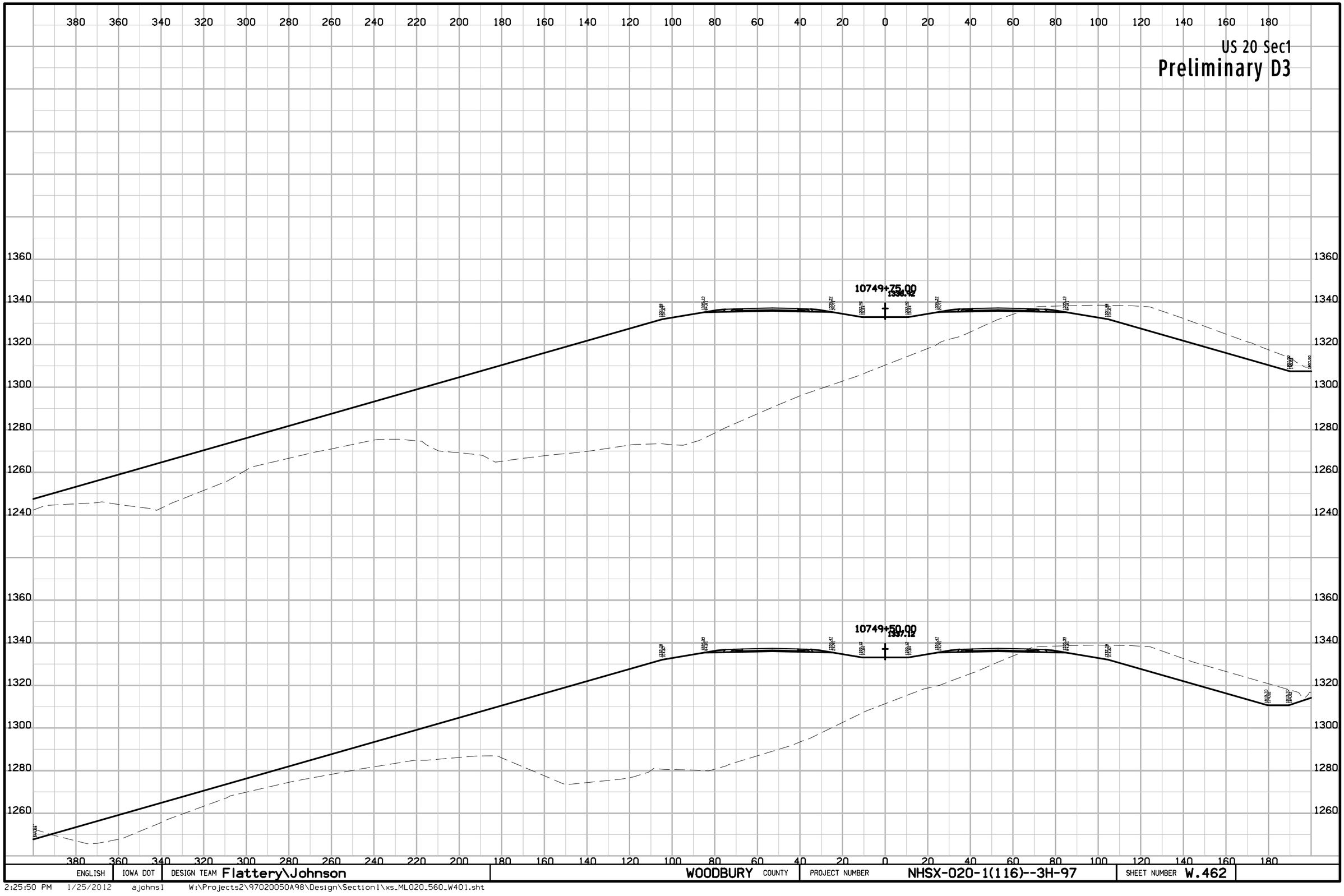


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.461	

2:25:49 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.462

2:25:50 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

380 360 340 320 300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180

1360
1340
1320
1300
1280
1260
1240

10750+25.00
1336.82

10750+00.00
1336.72

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.463

2:25:50 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

10751+00.00
1336.42

10750+75.00
1336.12

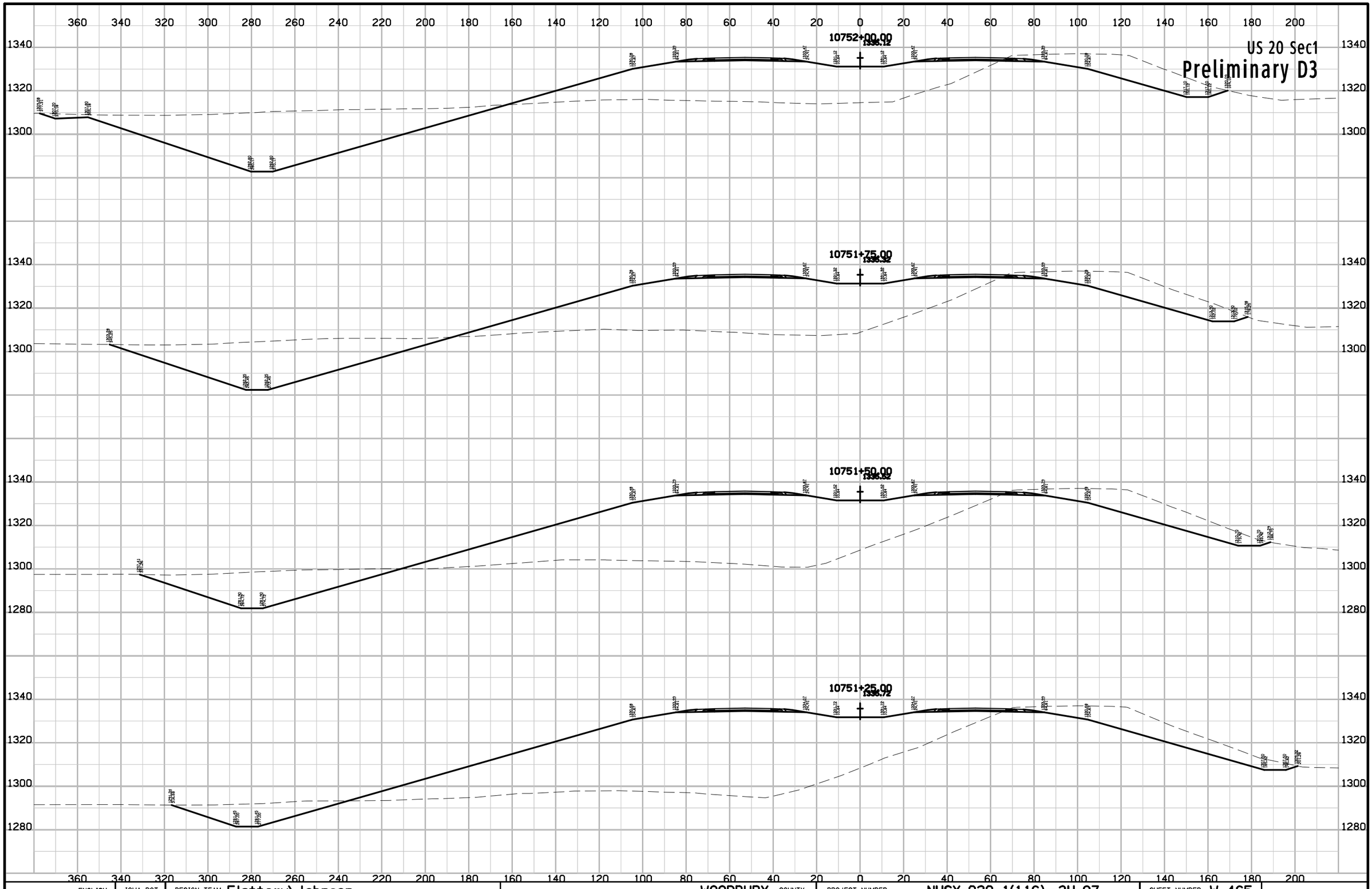
10750+50.00
1336.32

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.464

2:25:51 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

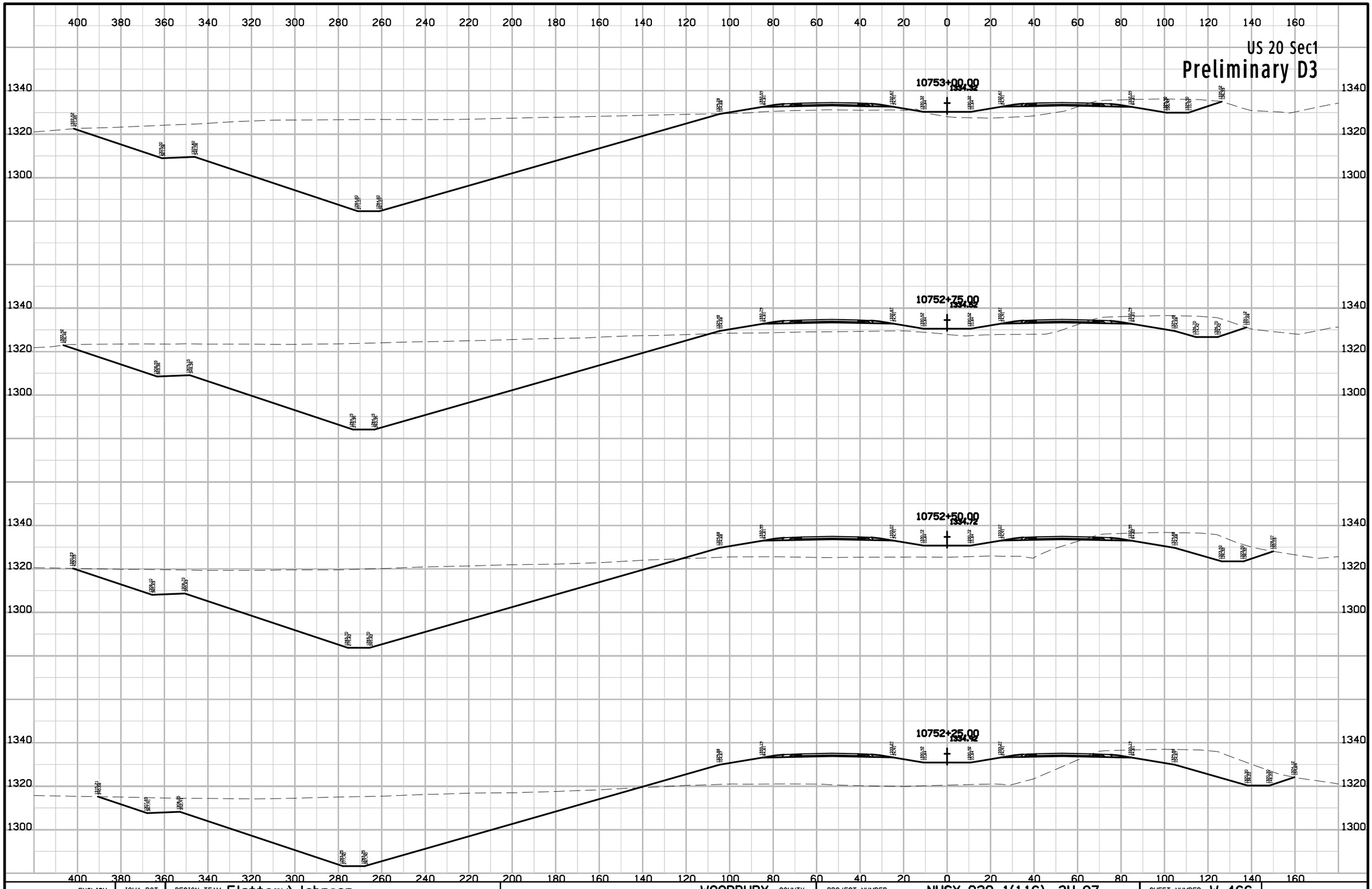


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.465

2:25:52 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

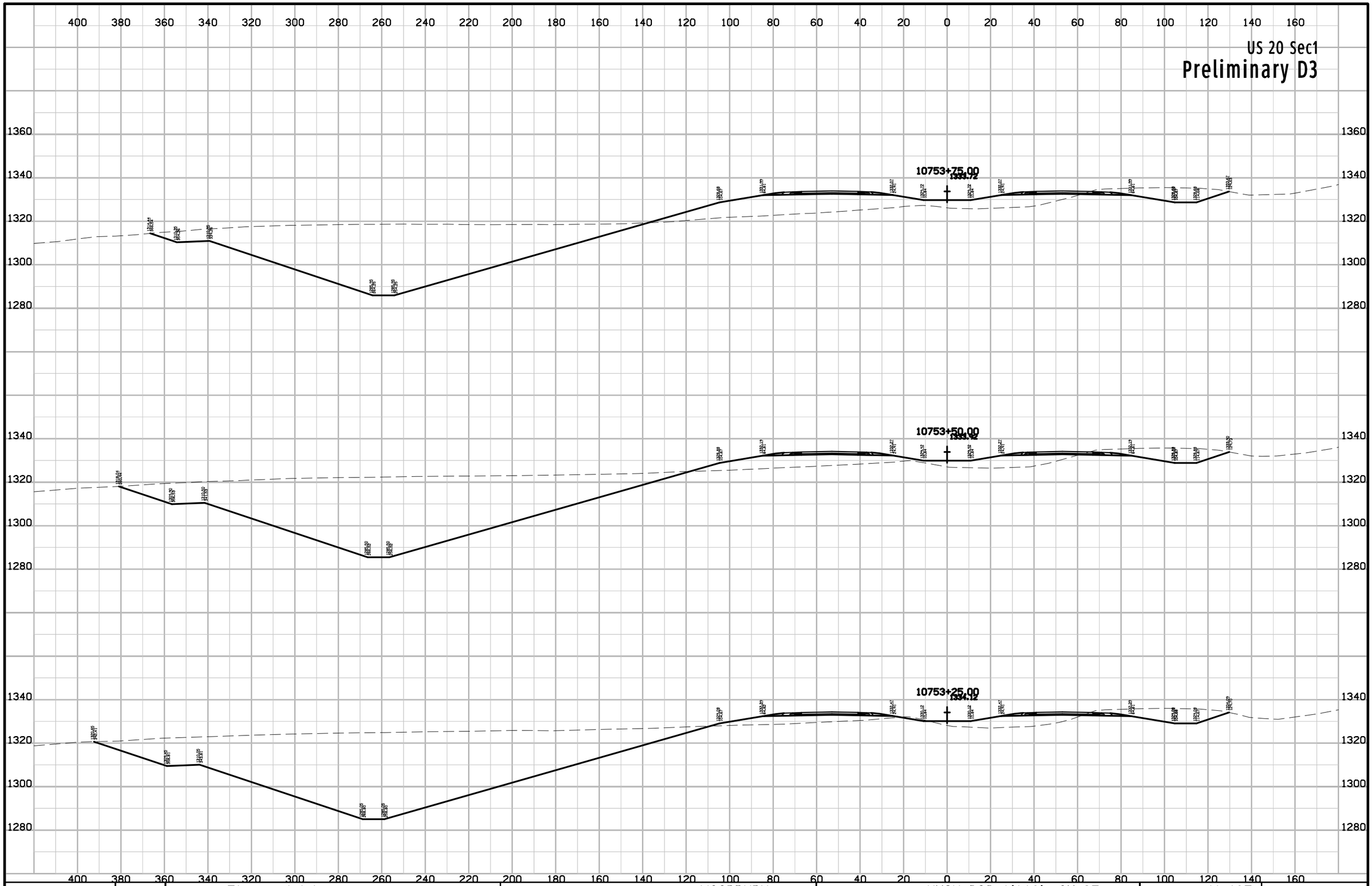


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.466	

2:25:52 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

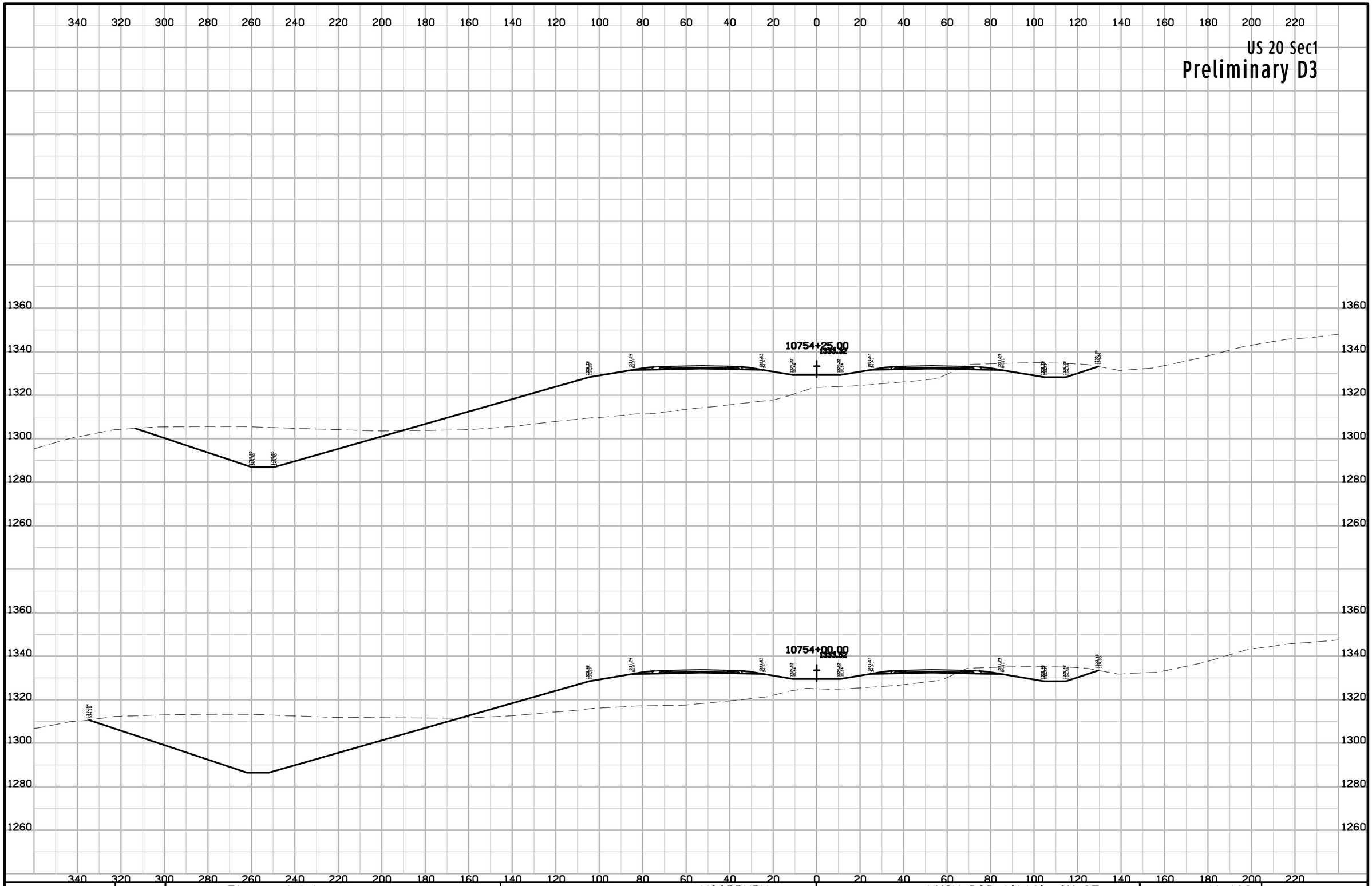


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.467	

2:25:53 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

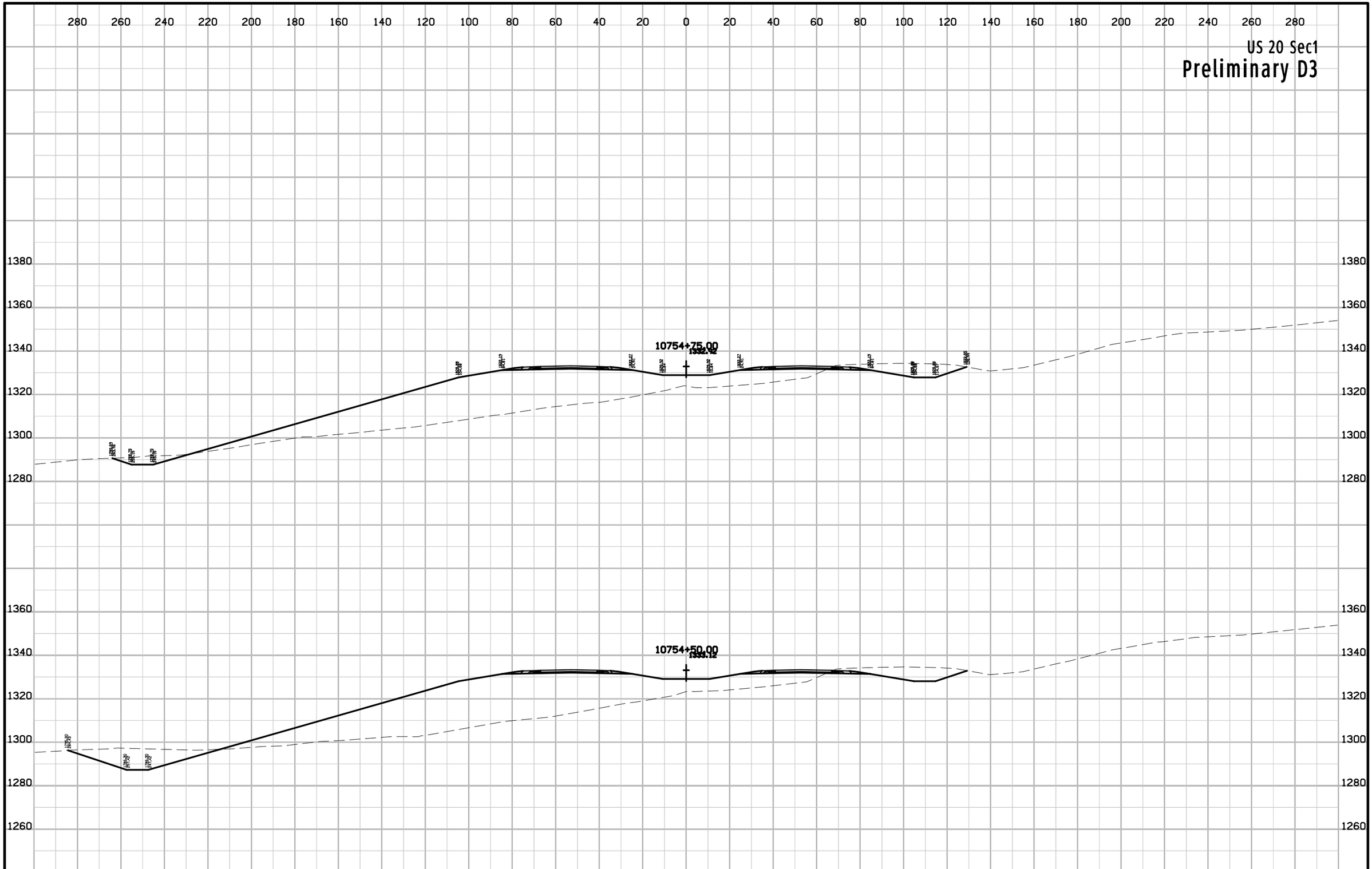


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.468

2:25:53 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

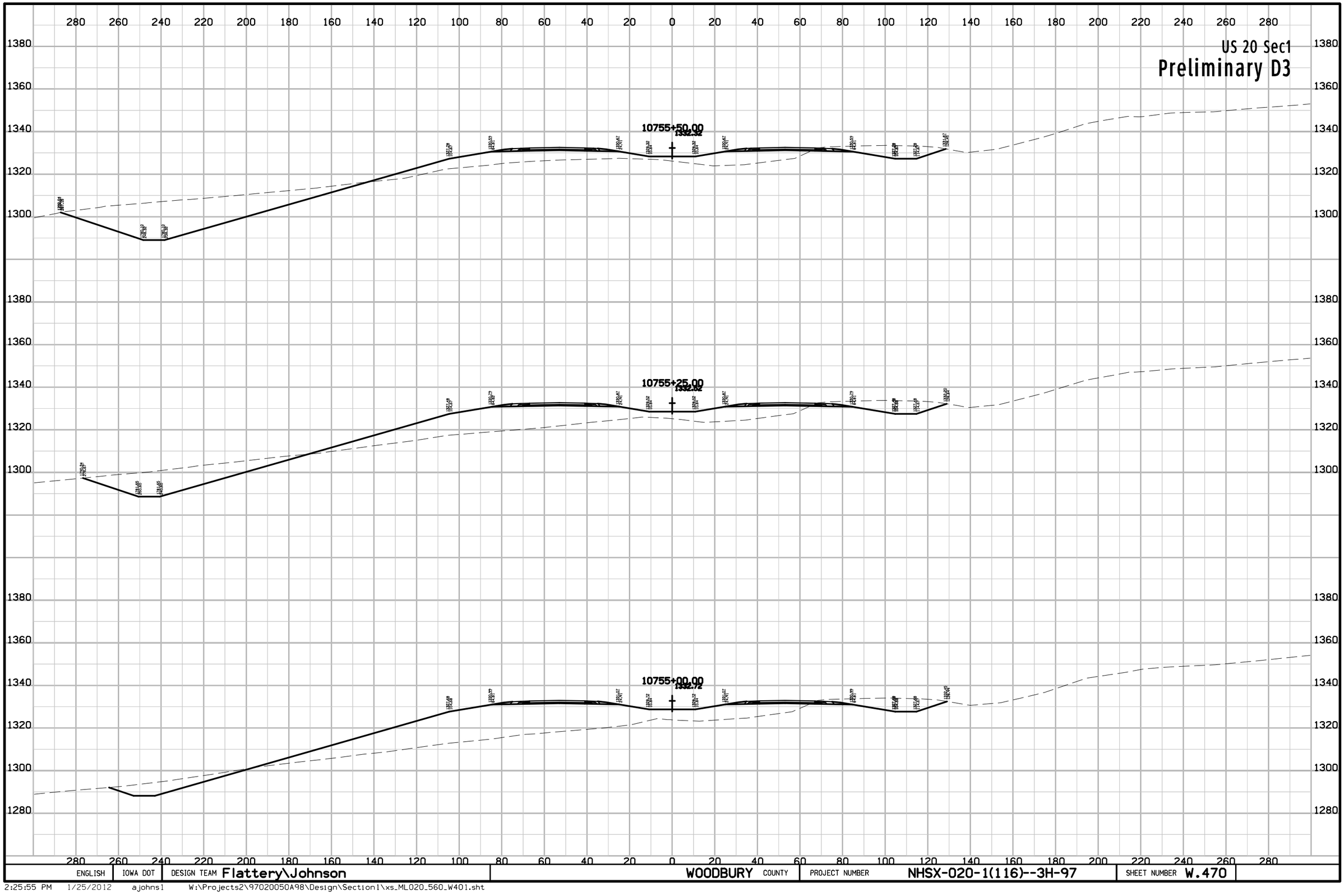


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.469

2:25:54 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

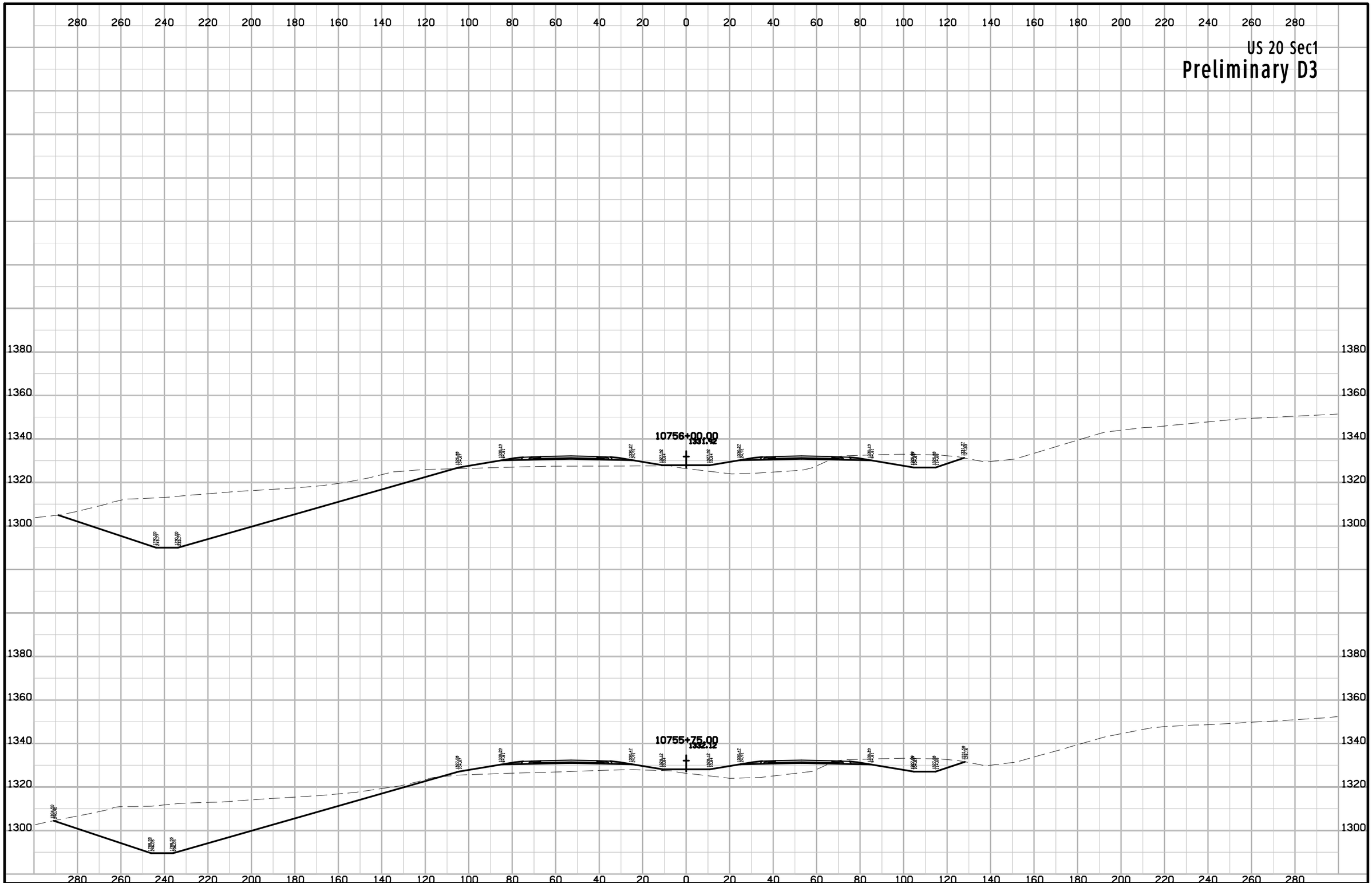


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.470

2:25:55 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

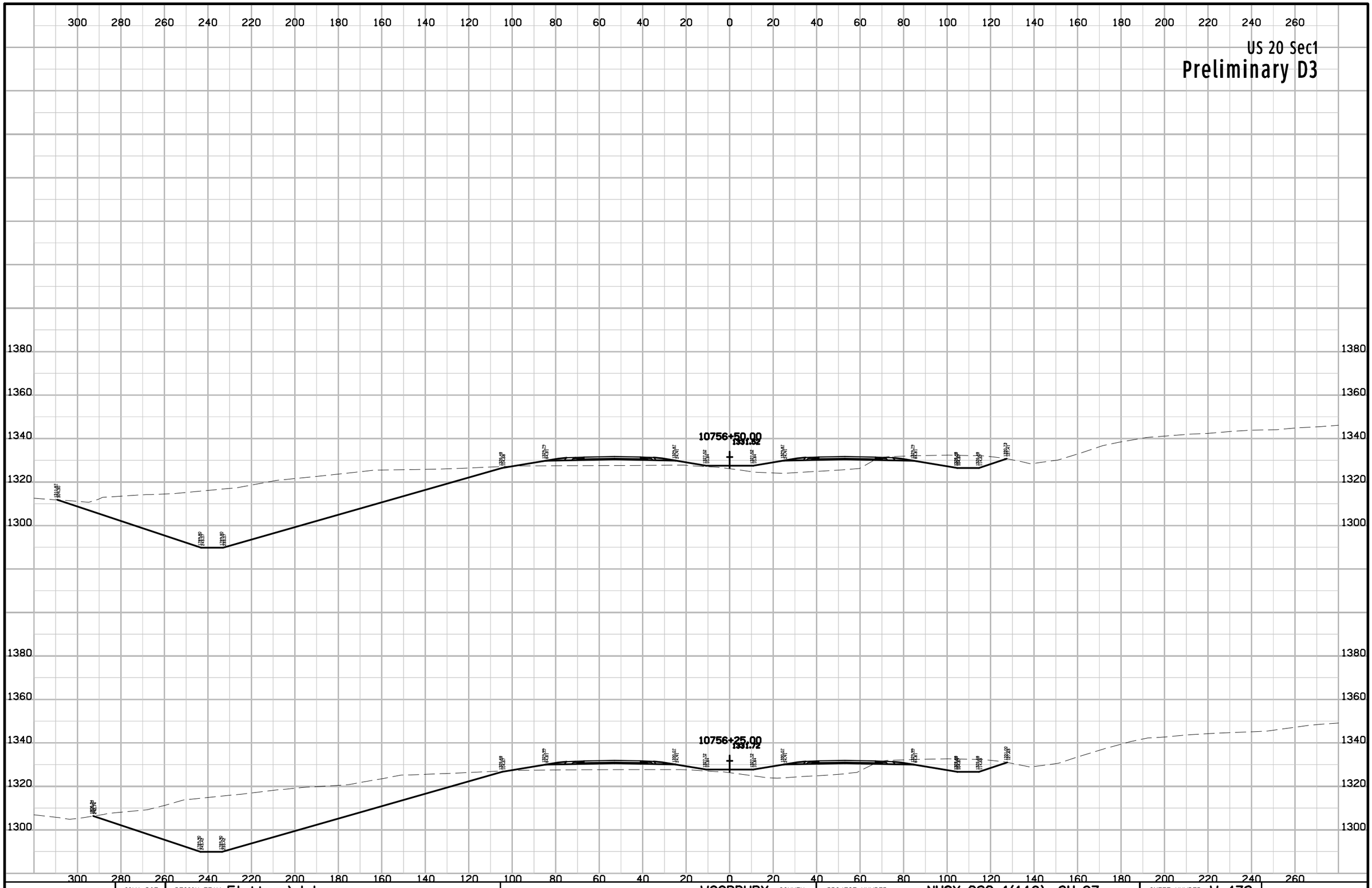


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.471

2:25:55 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

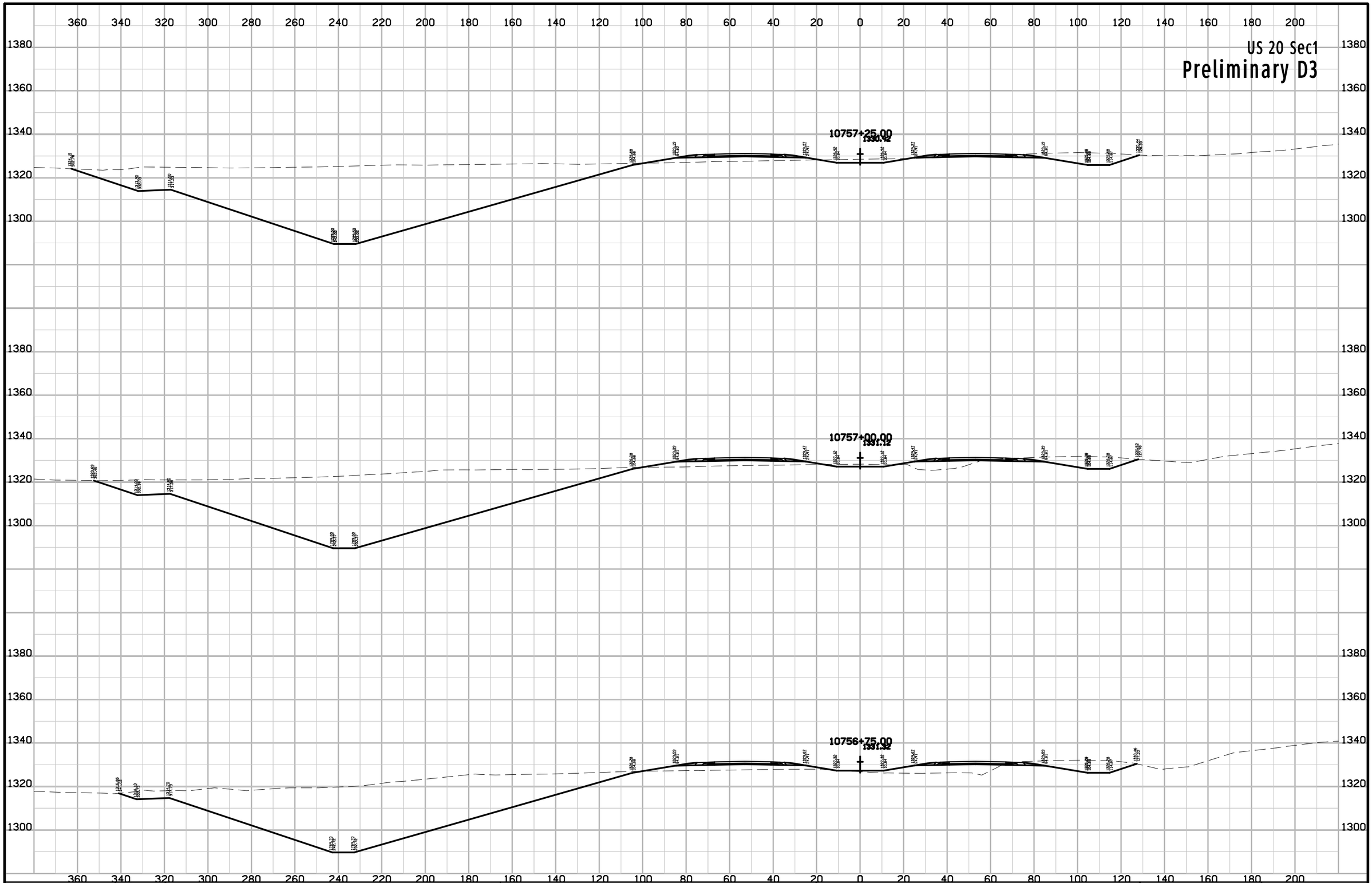


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.472

2:25:56 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

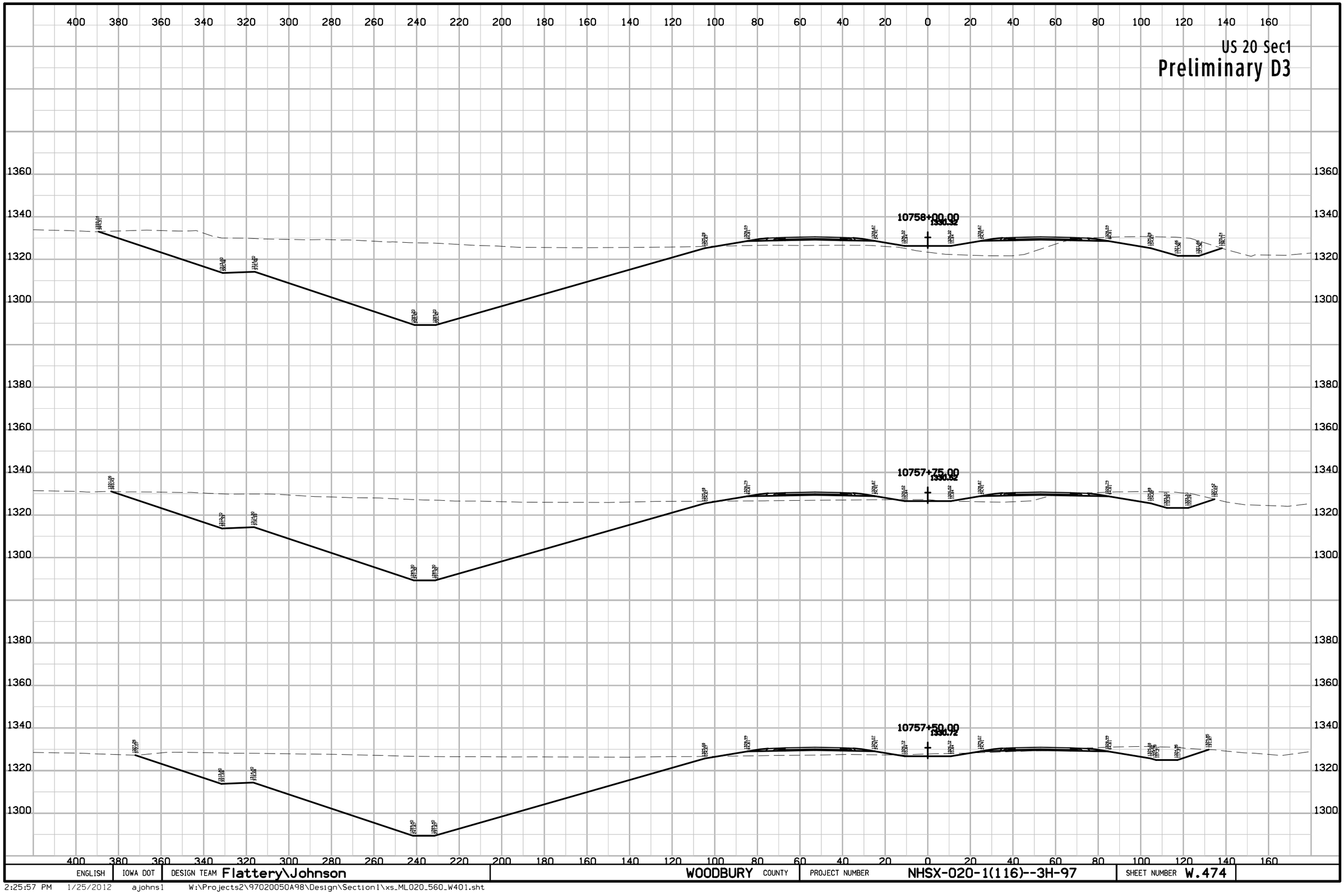


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.473

2:25:56 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

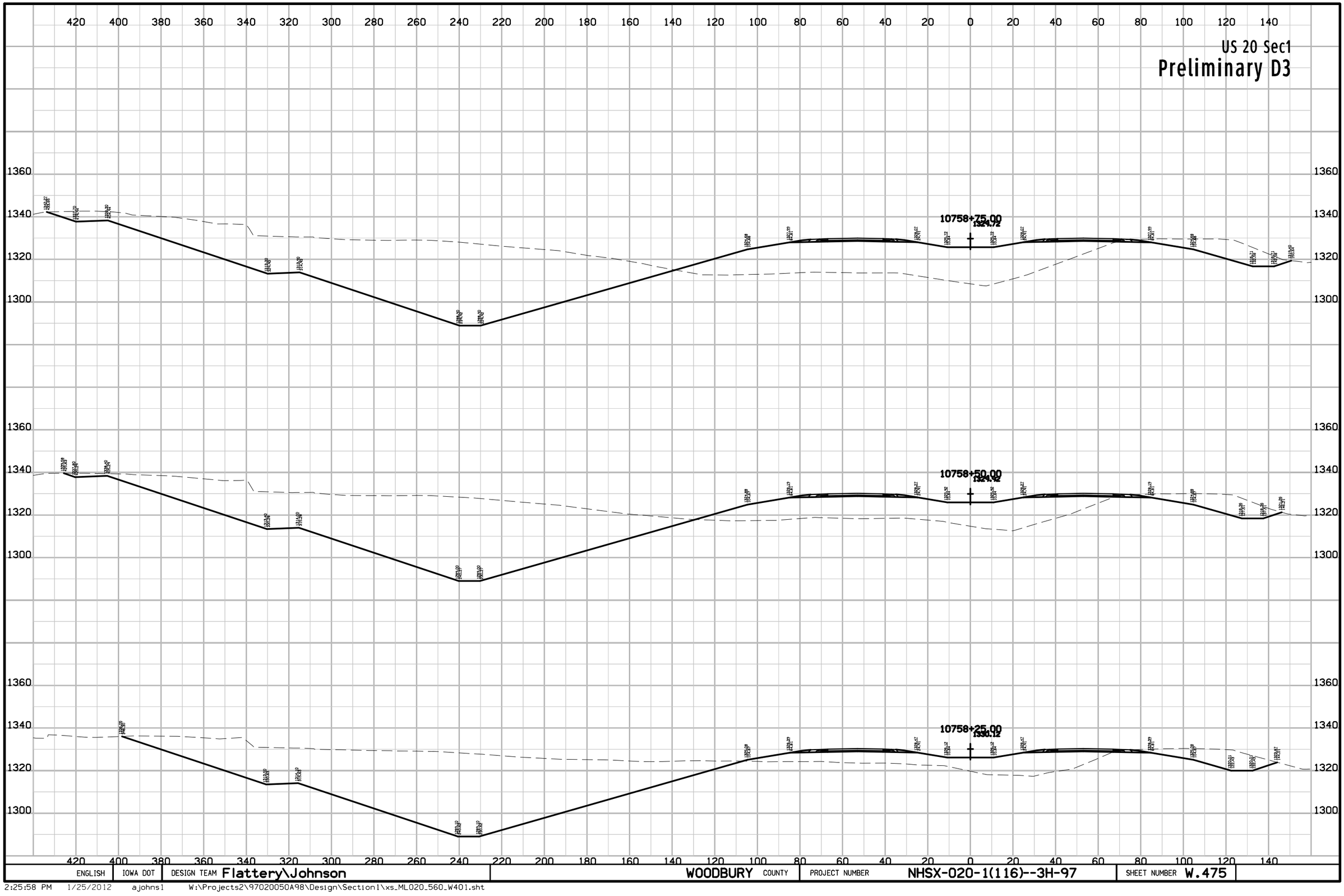


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.474

2:25:57 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

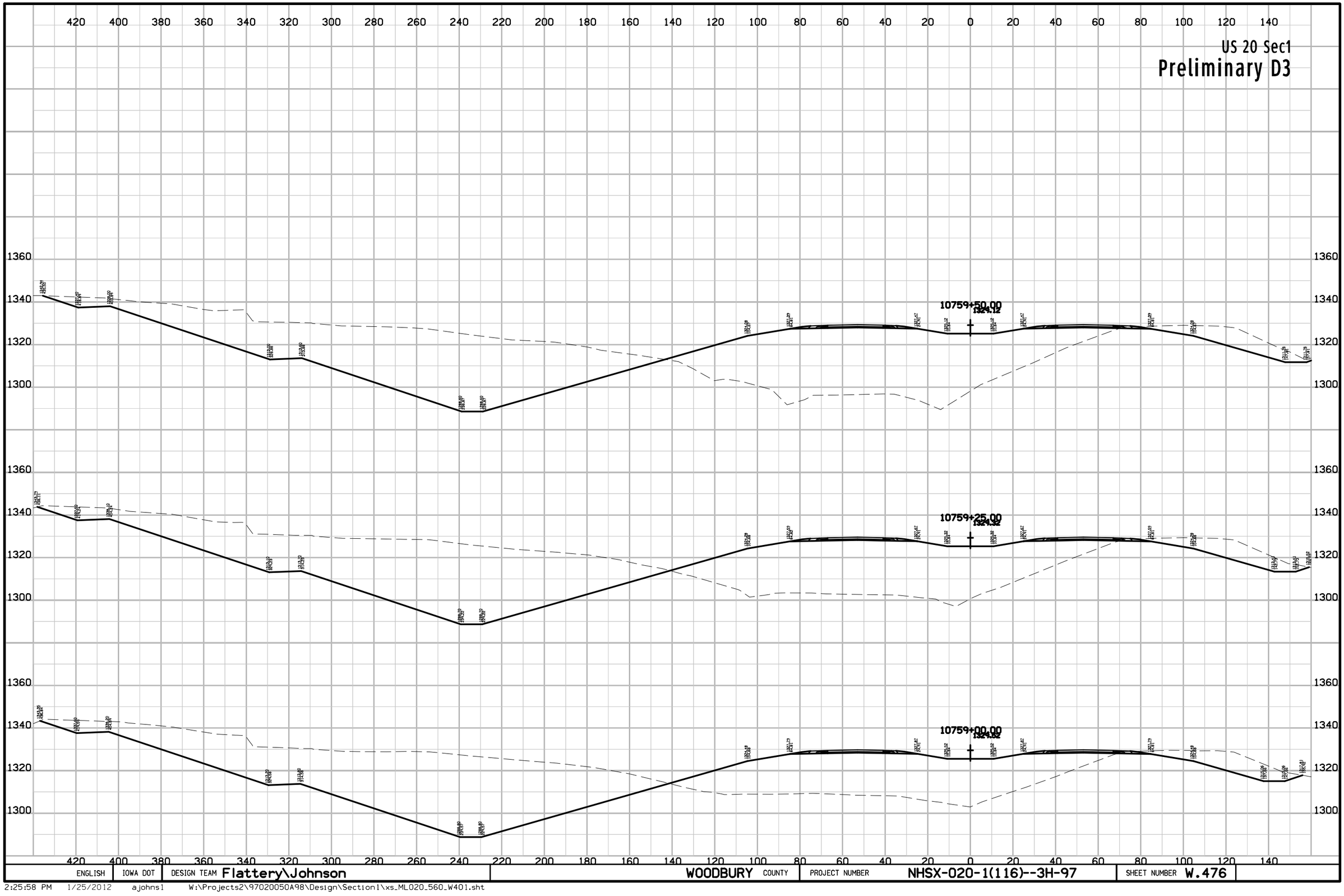


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.475	

2:25:58 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

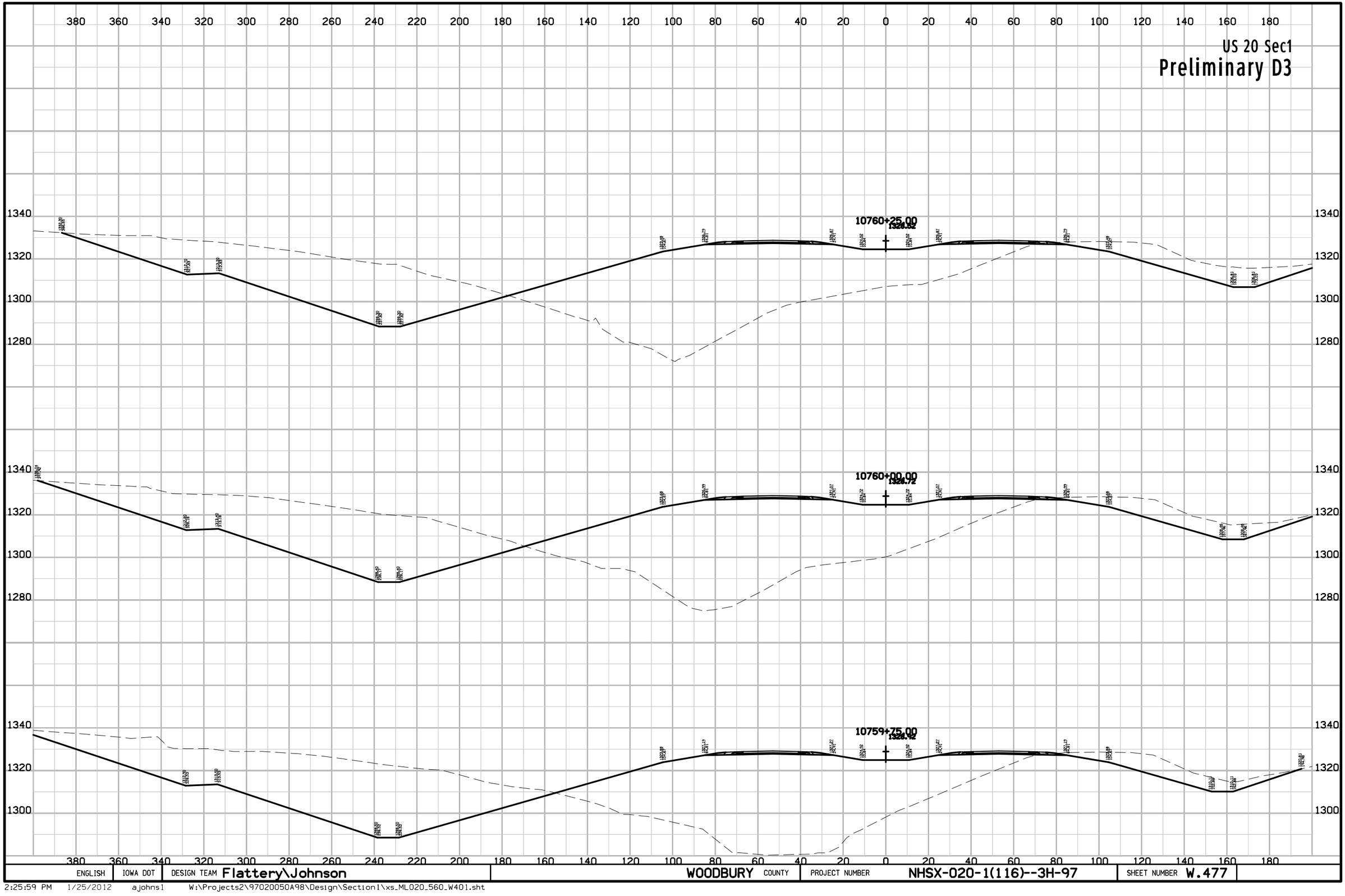


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.476

2:25:58 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

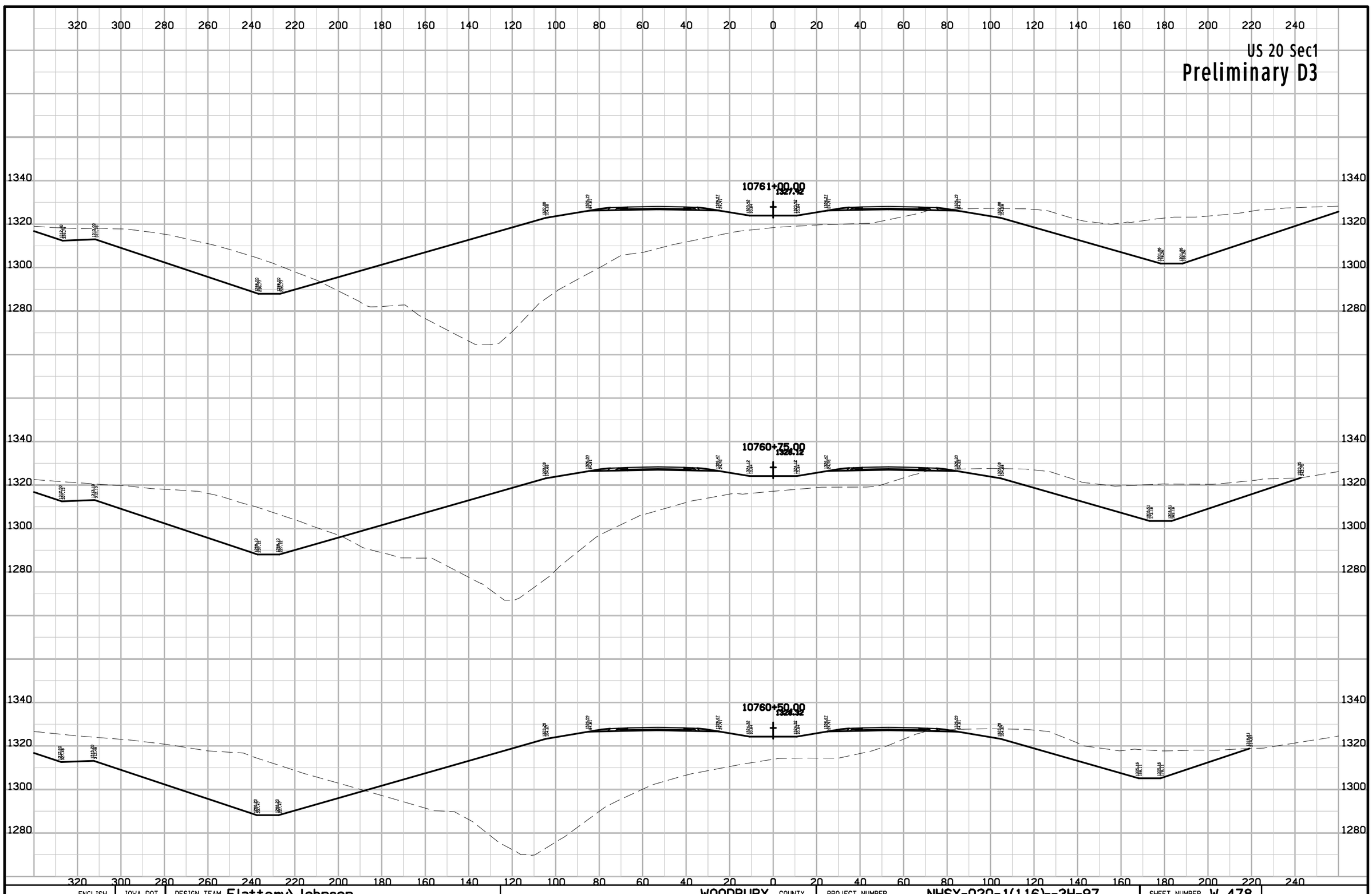


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.477

2:25:59 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

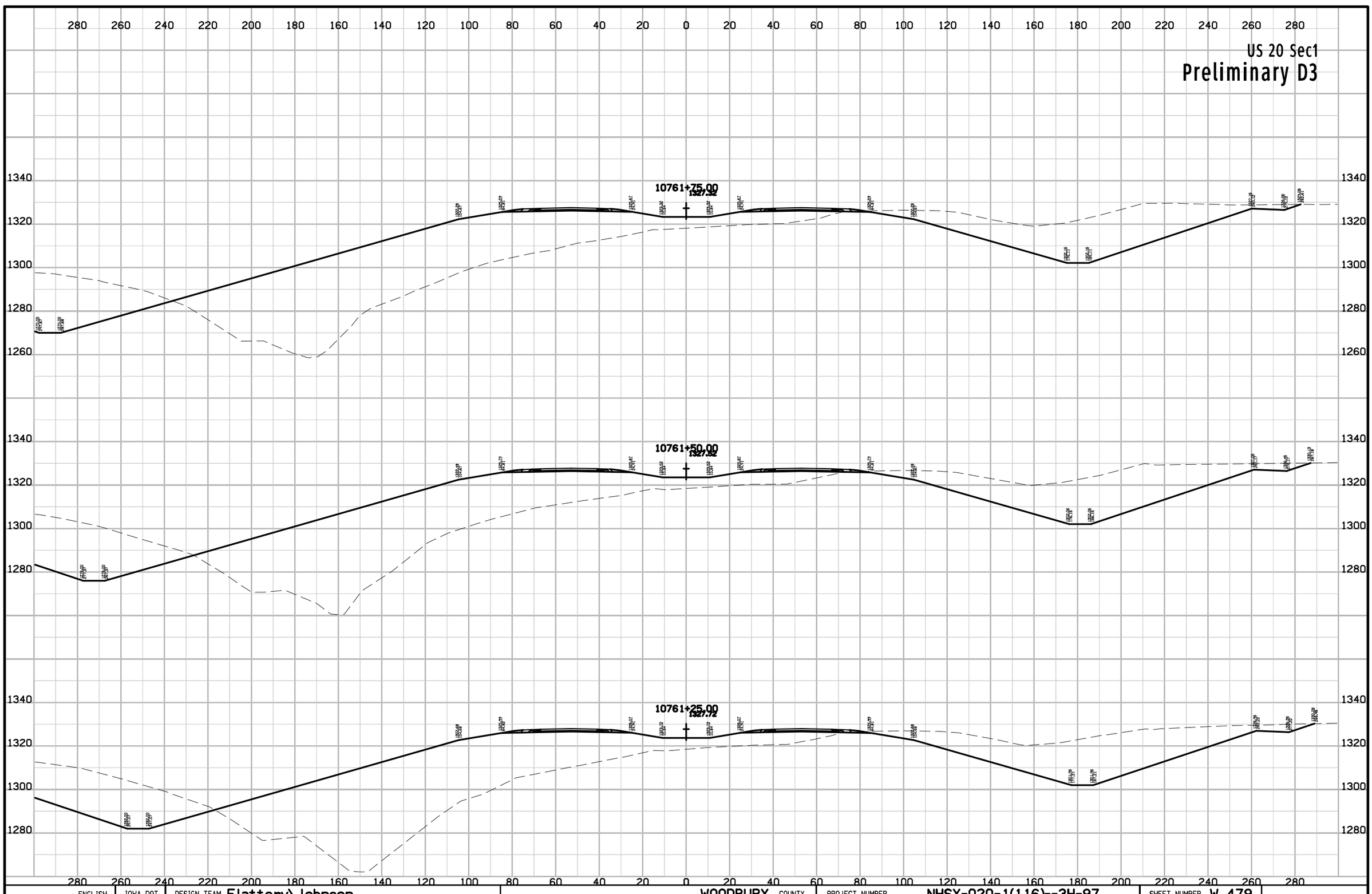


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.478

2:25:59 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

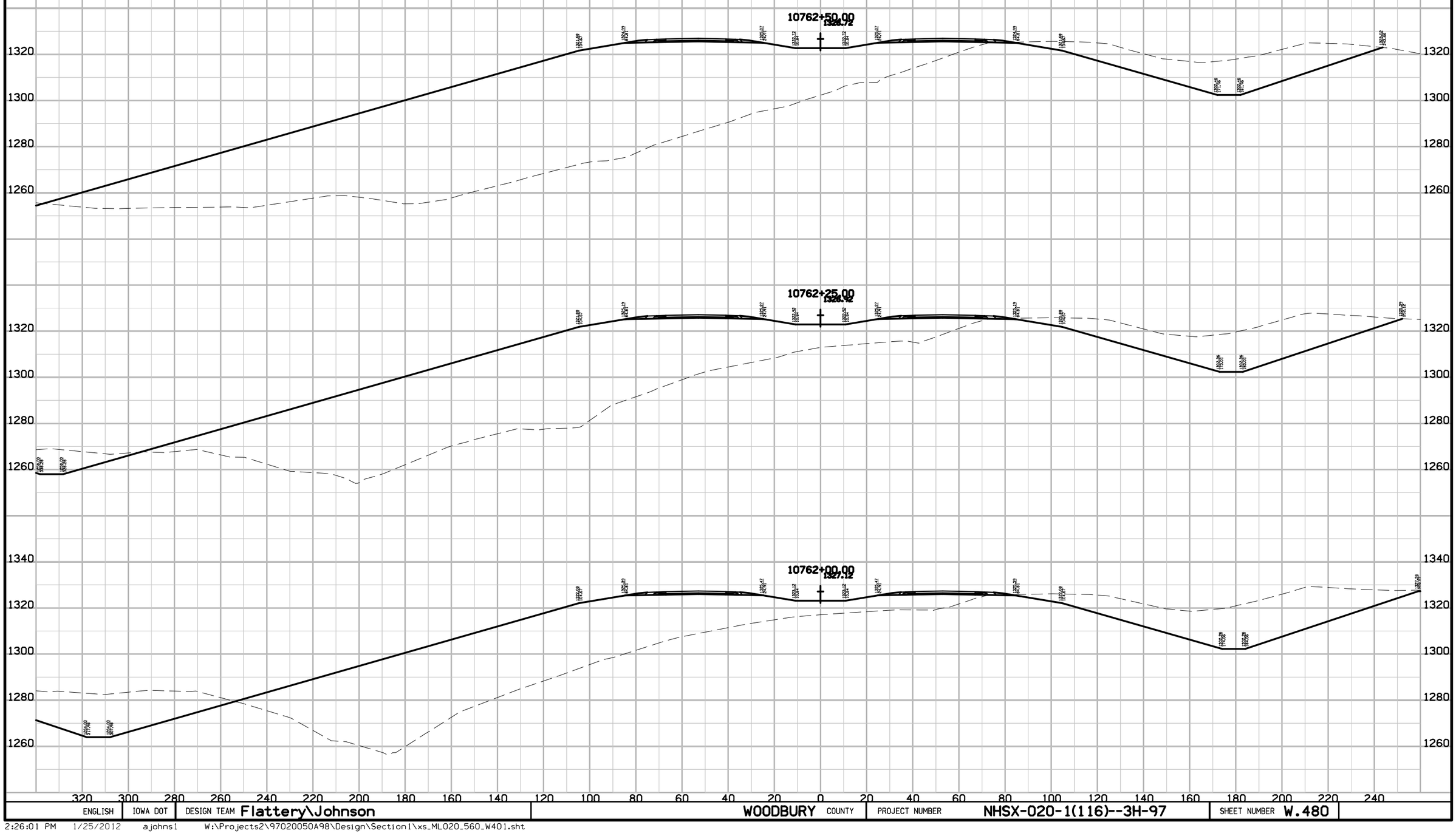


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.479

2:26:00 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

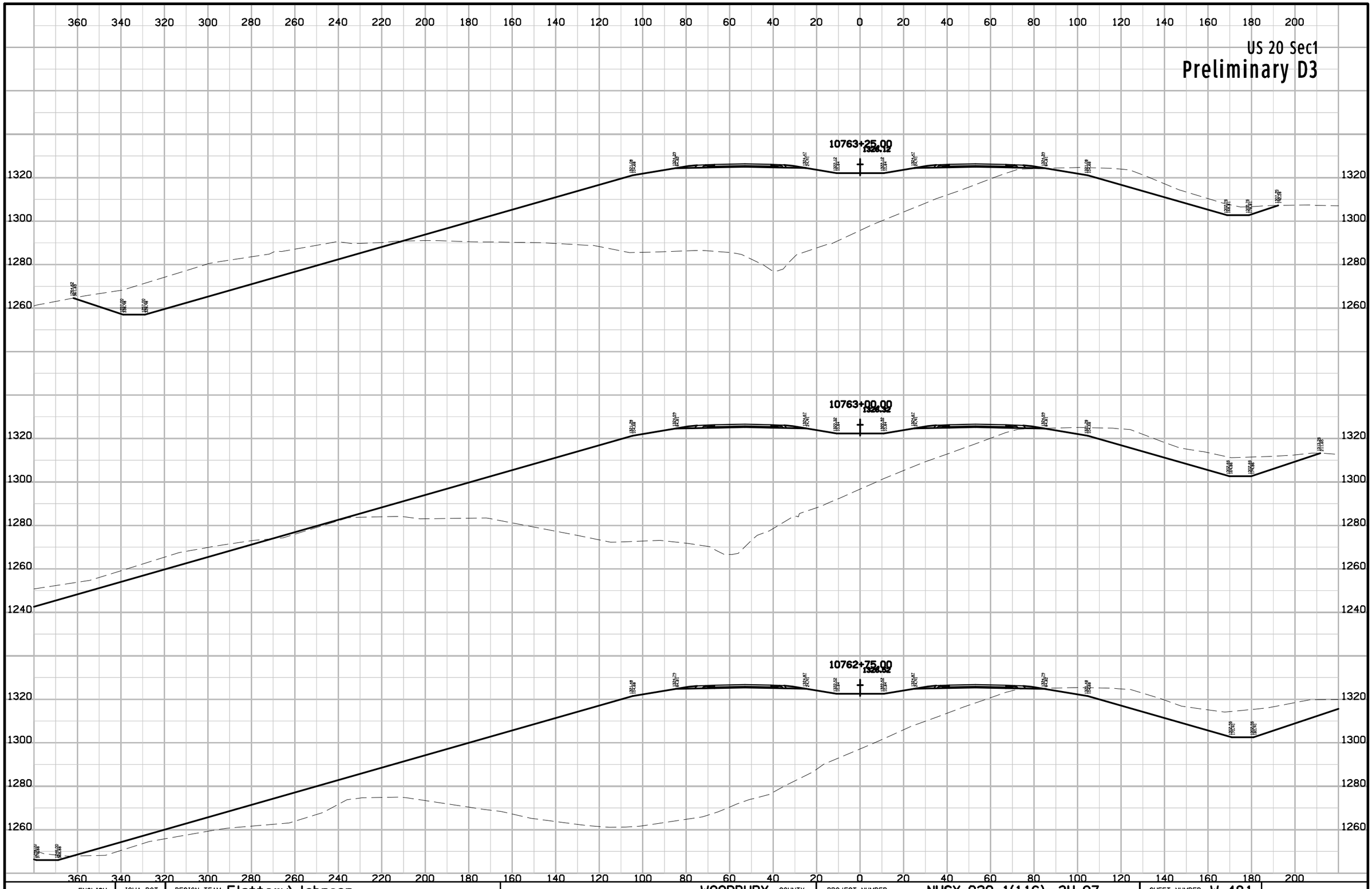


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.480

2:26:01 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

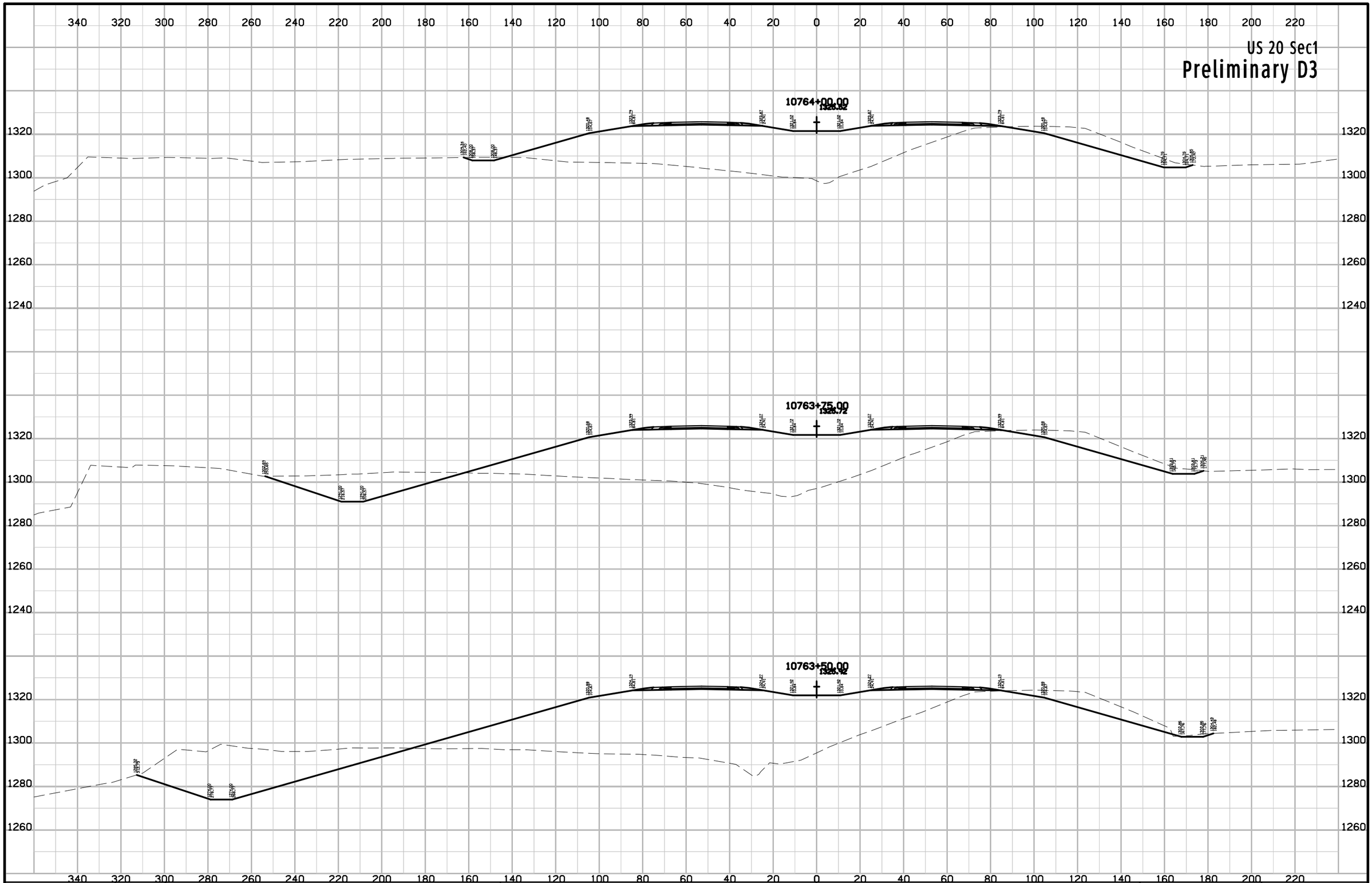


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.481

2:26:01 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

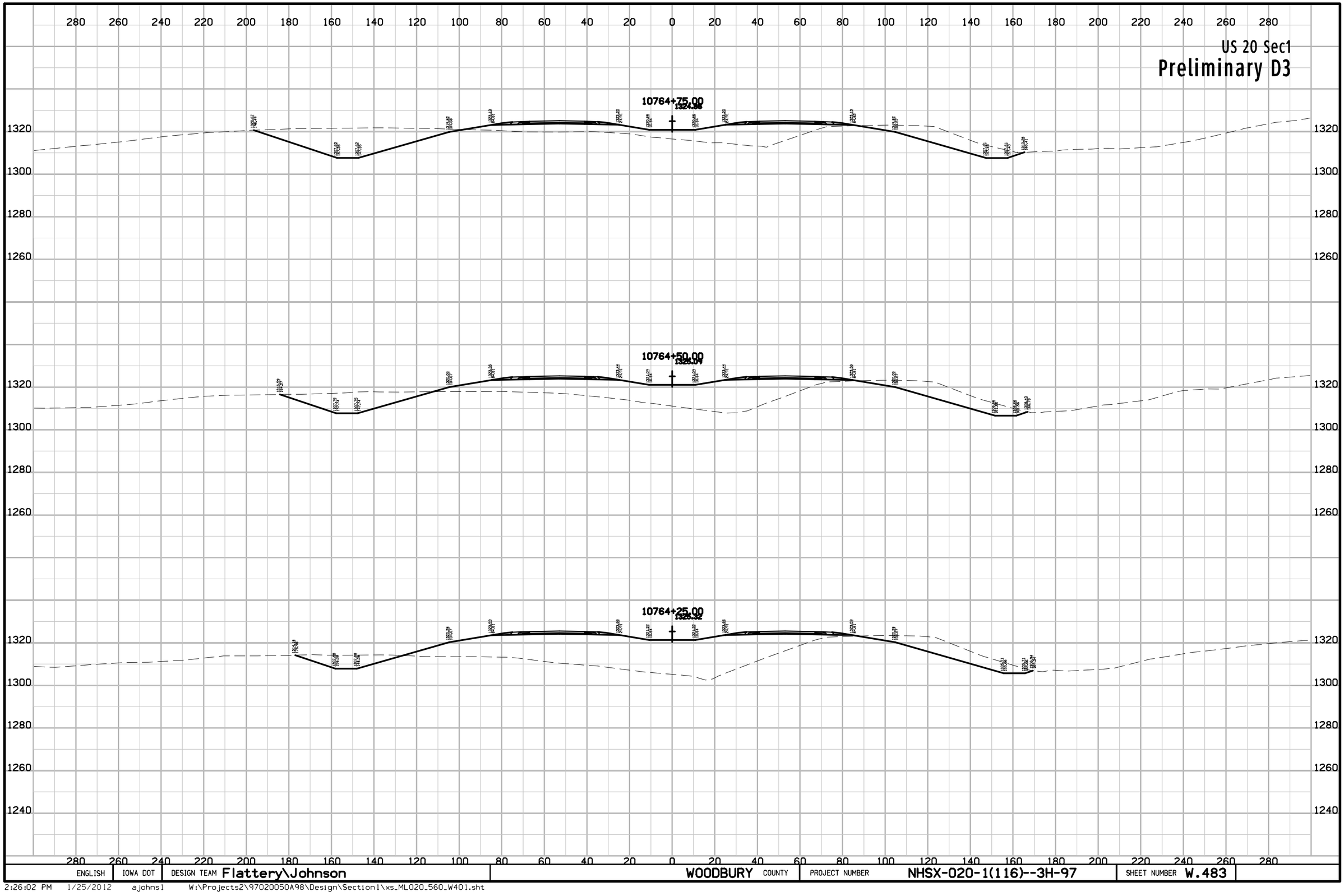


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.482

2:26:02 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

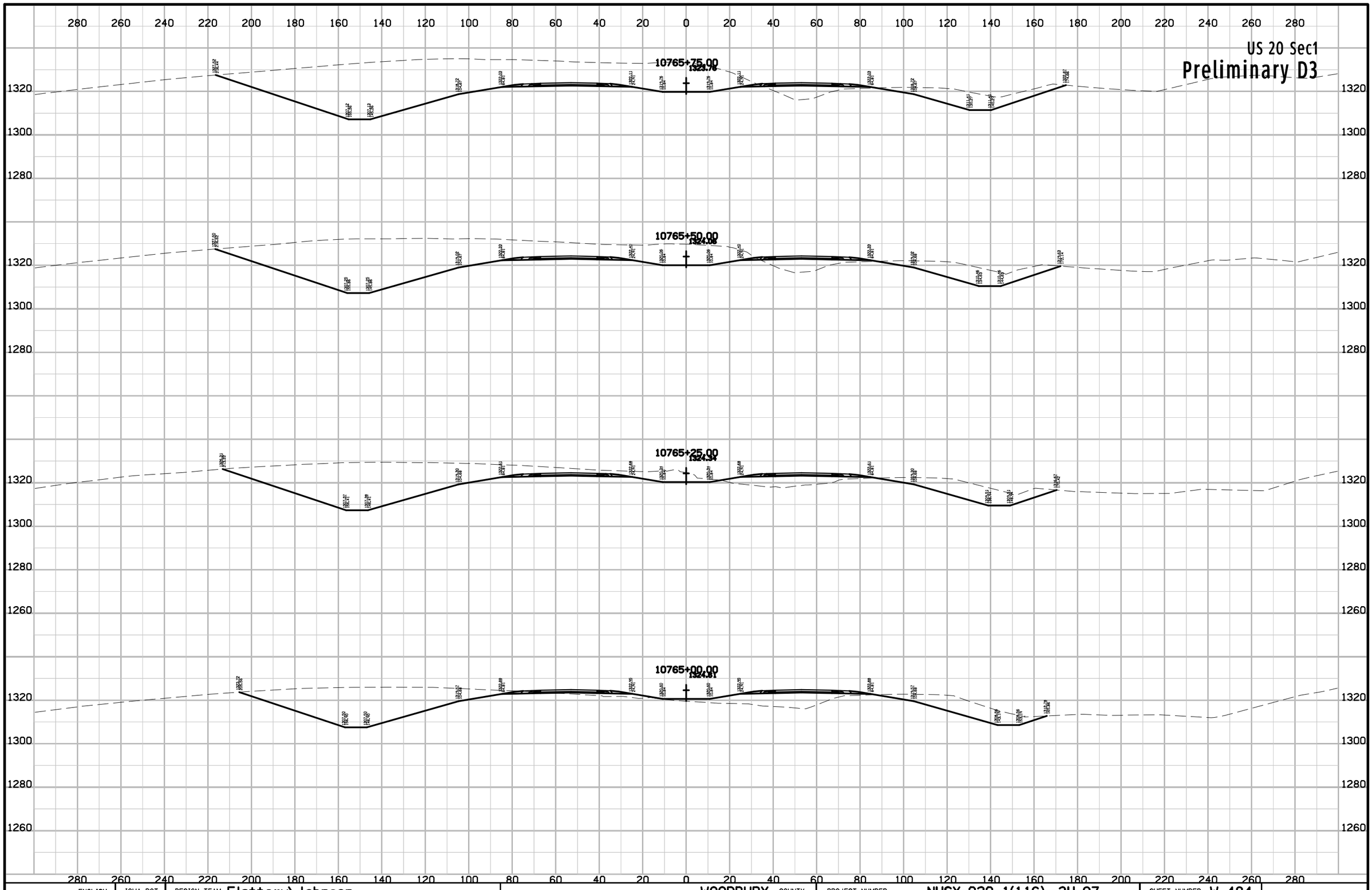


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.483

2:26:02 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

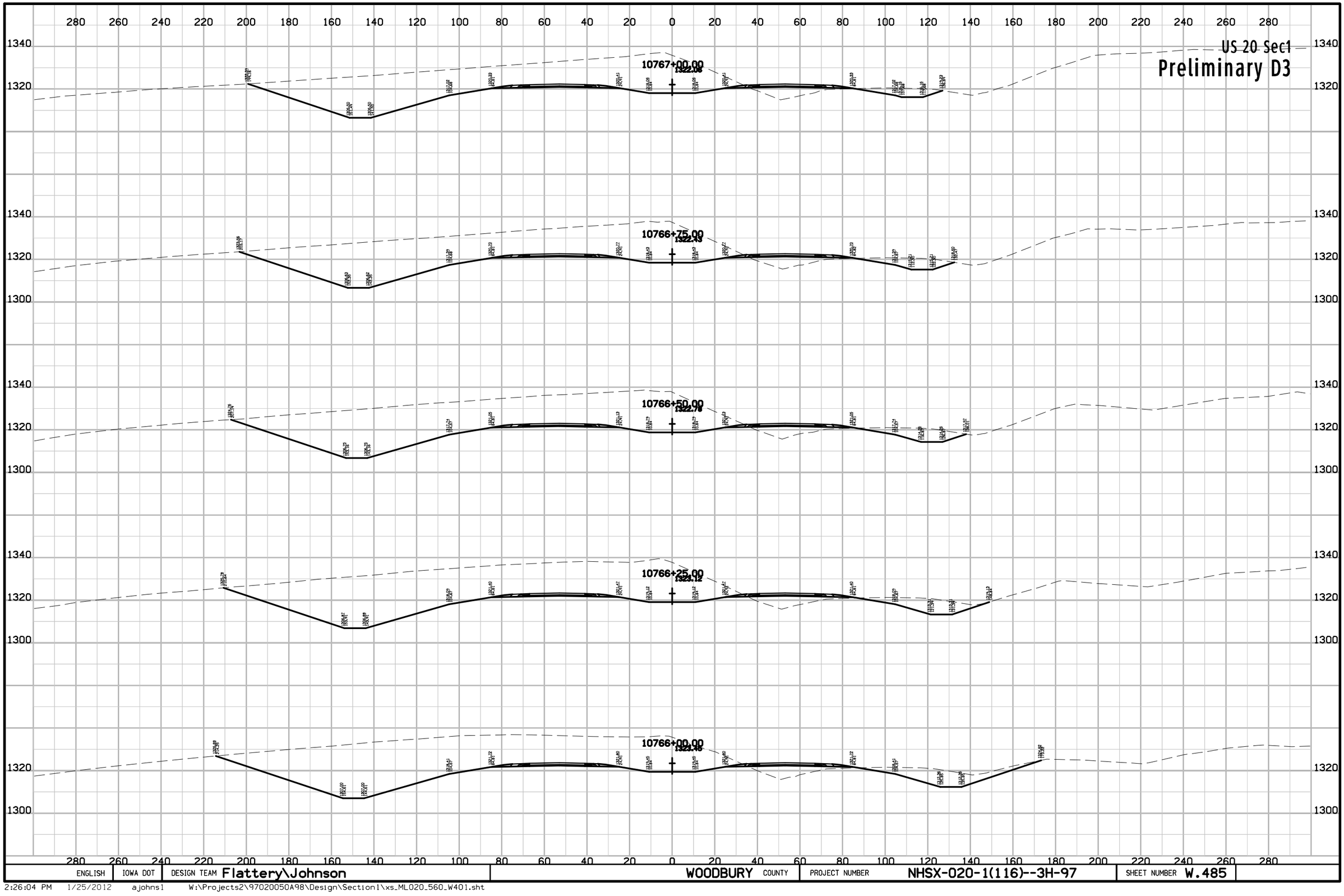


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.484

2:26:03 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

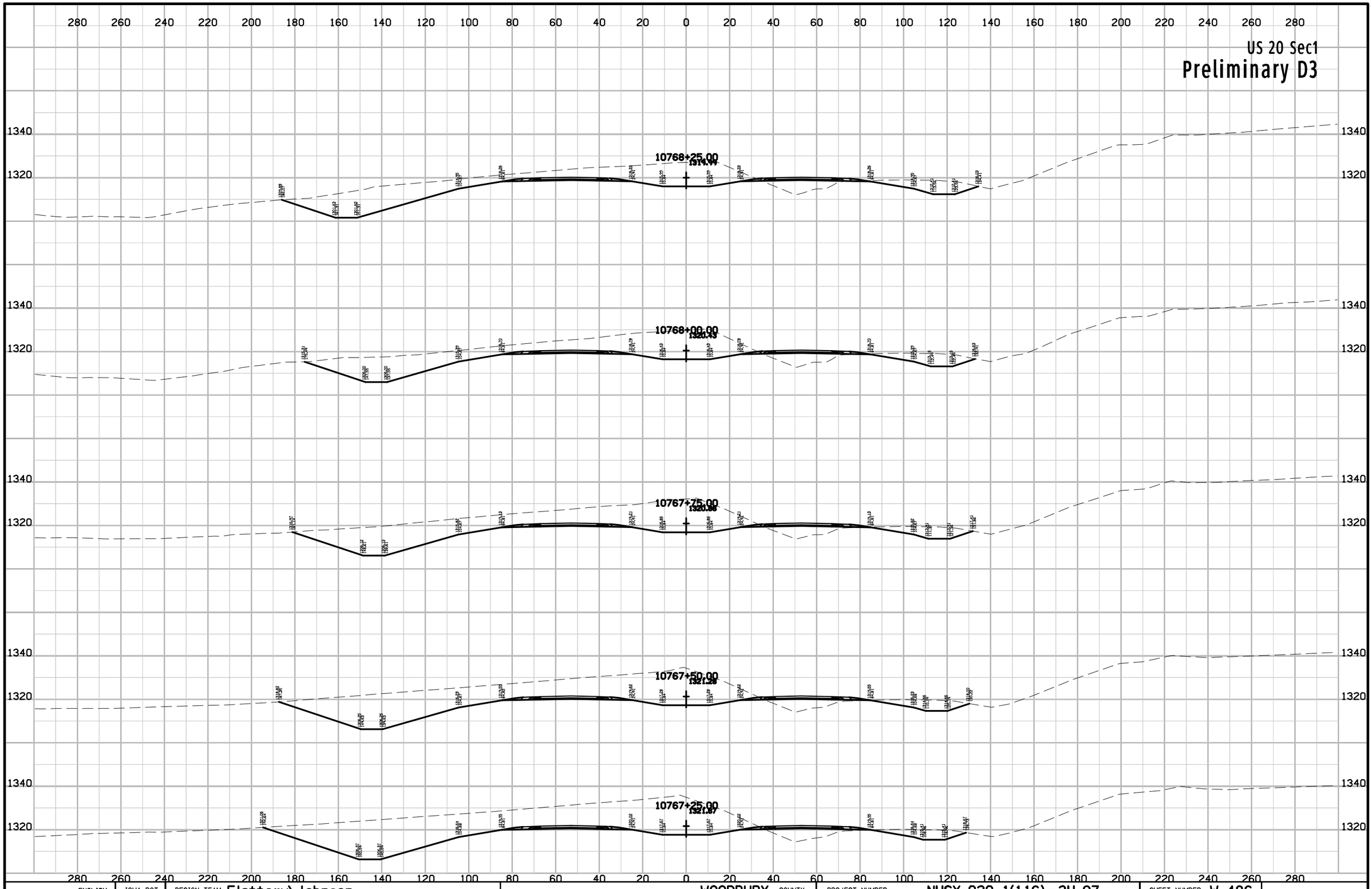


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.485

2:26:04 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

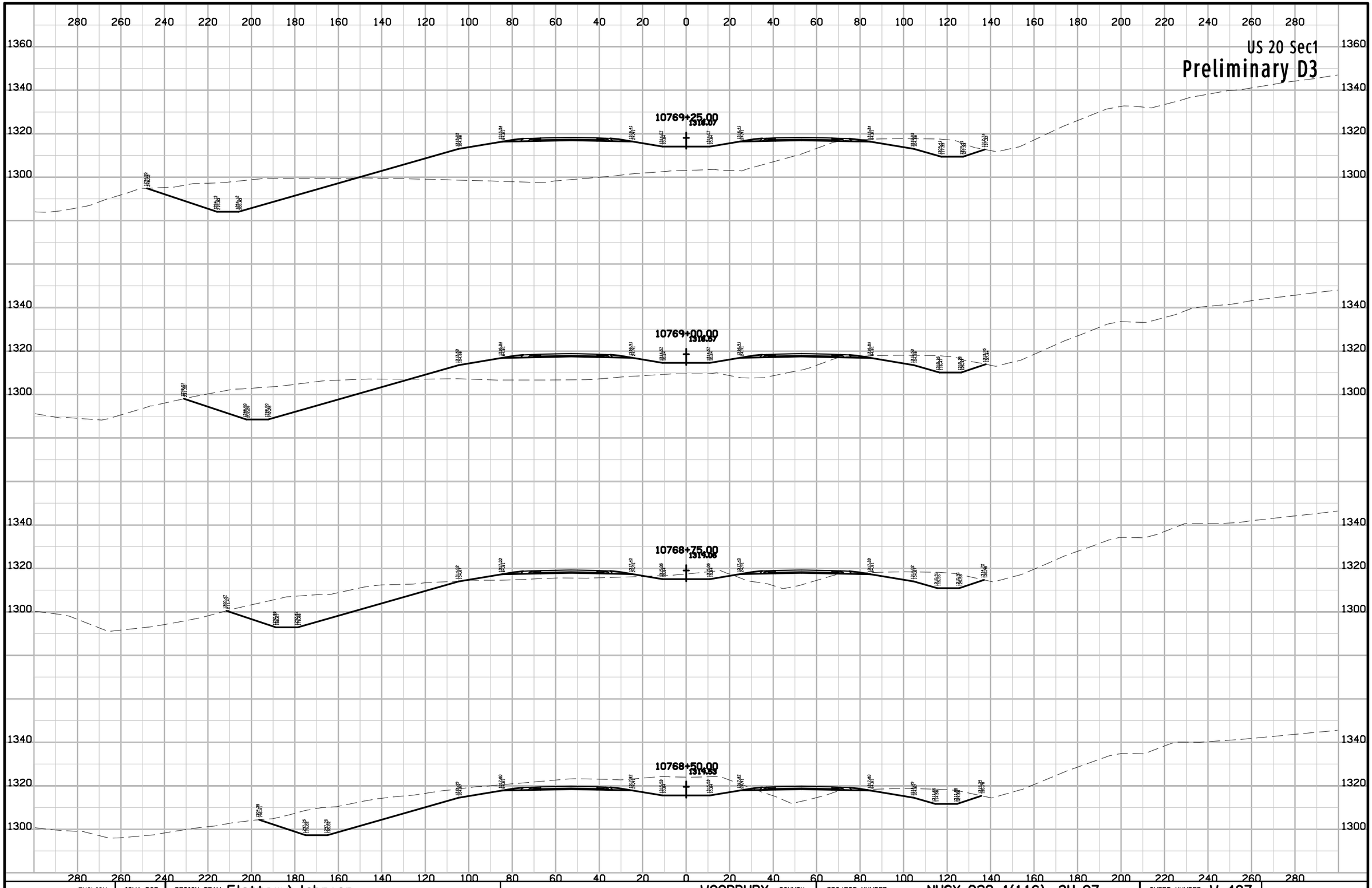


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.486

2:26:04 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

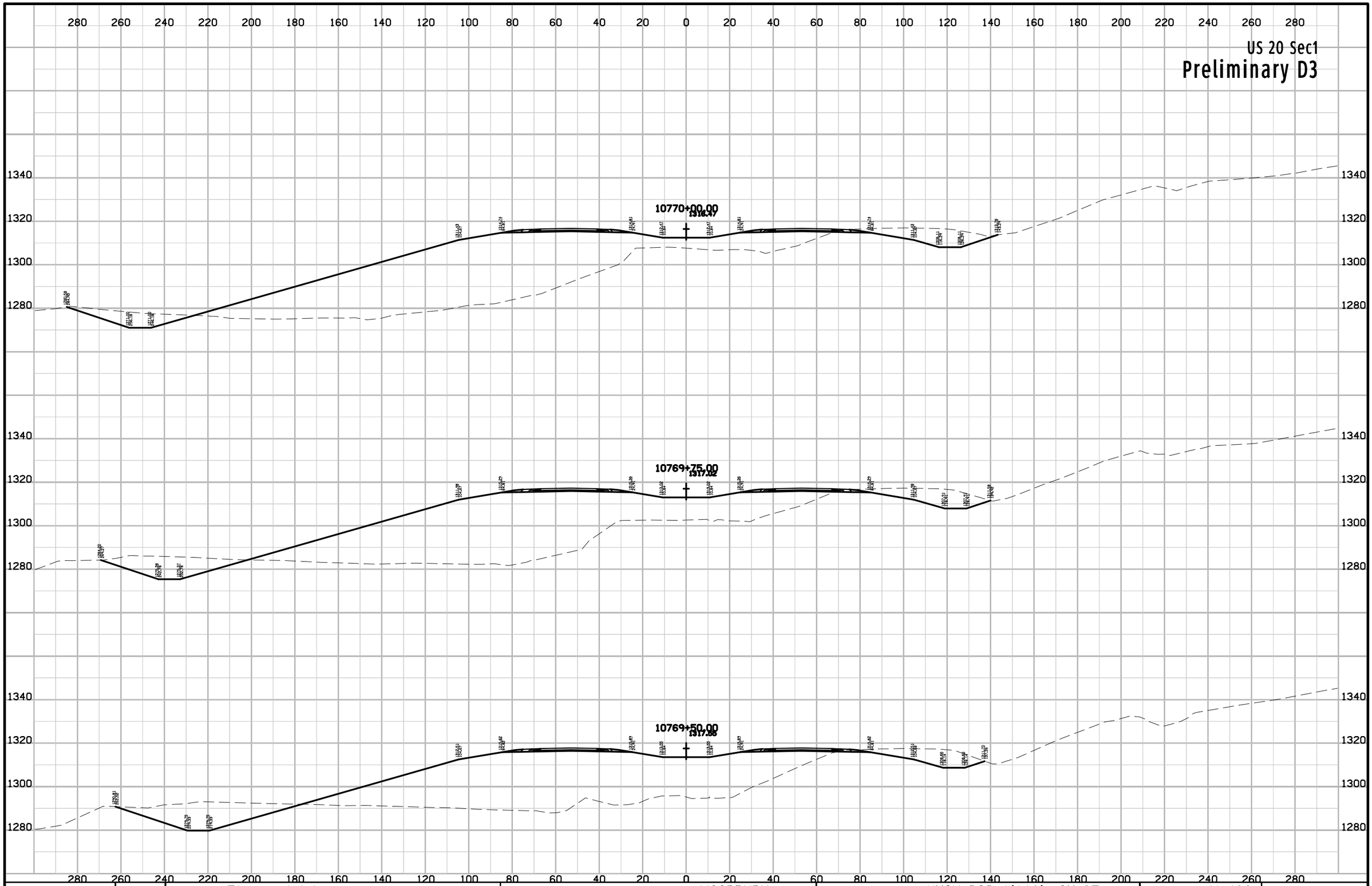


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.487

2:26:05 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

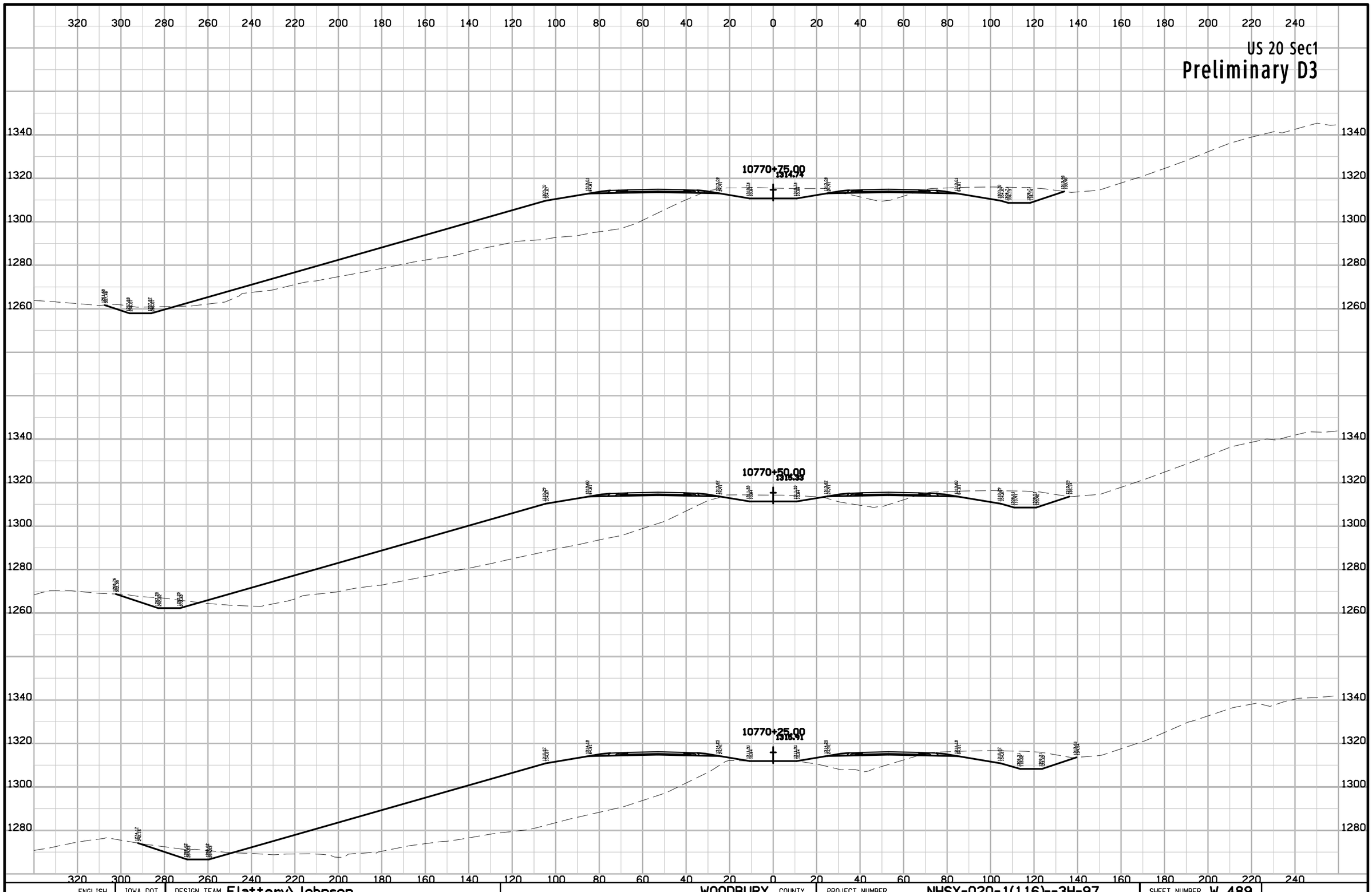


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.488

2:26:06 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

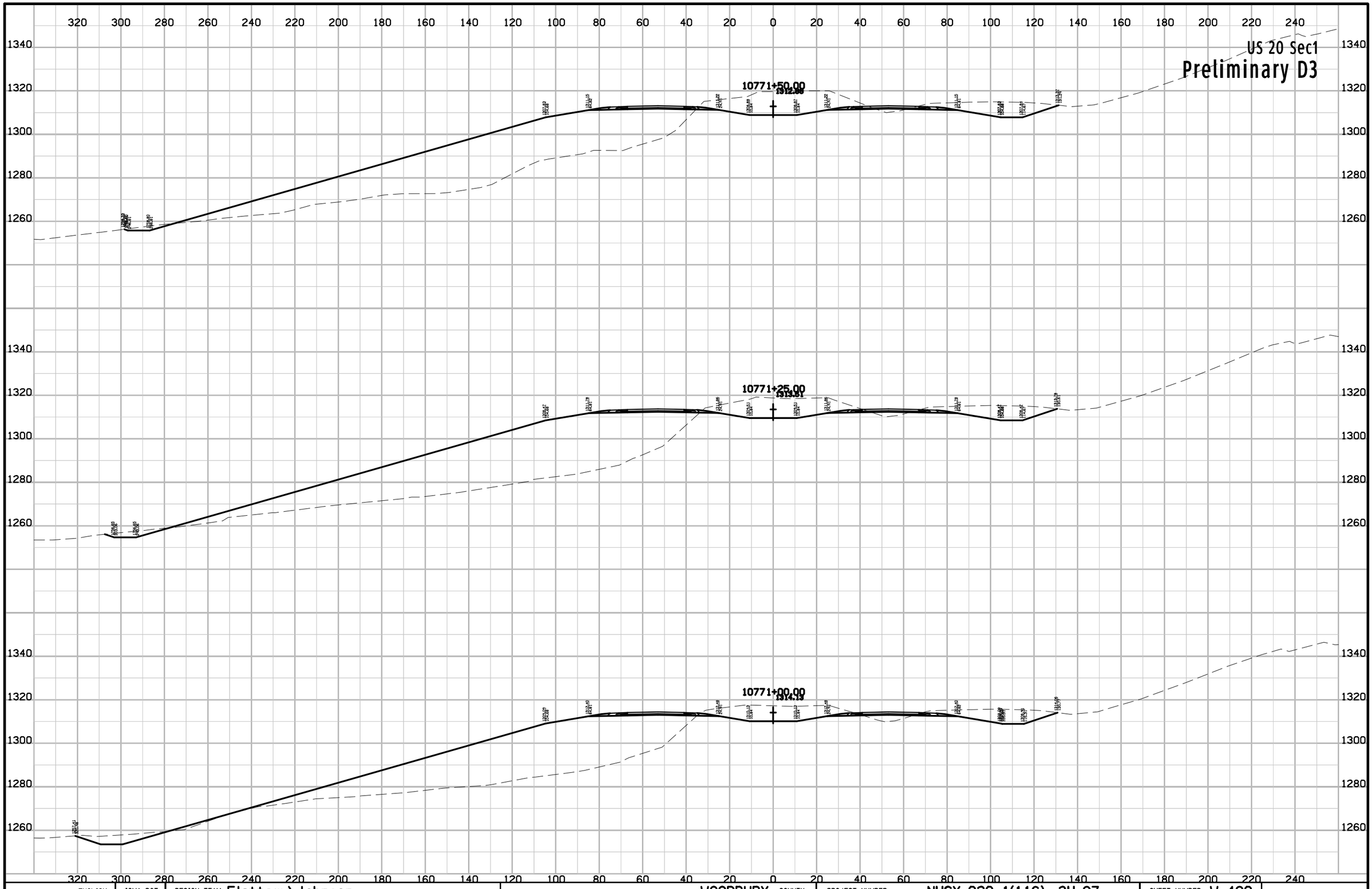


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.489	

2:26:06 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

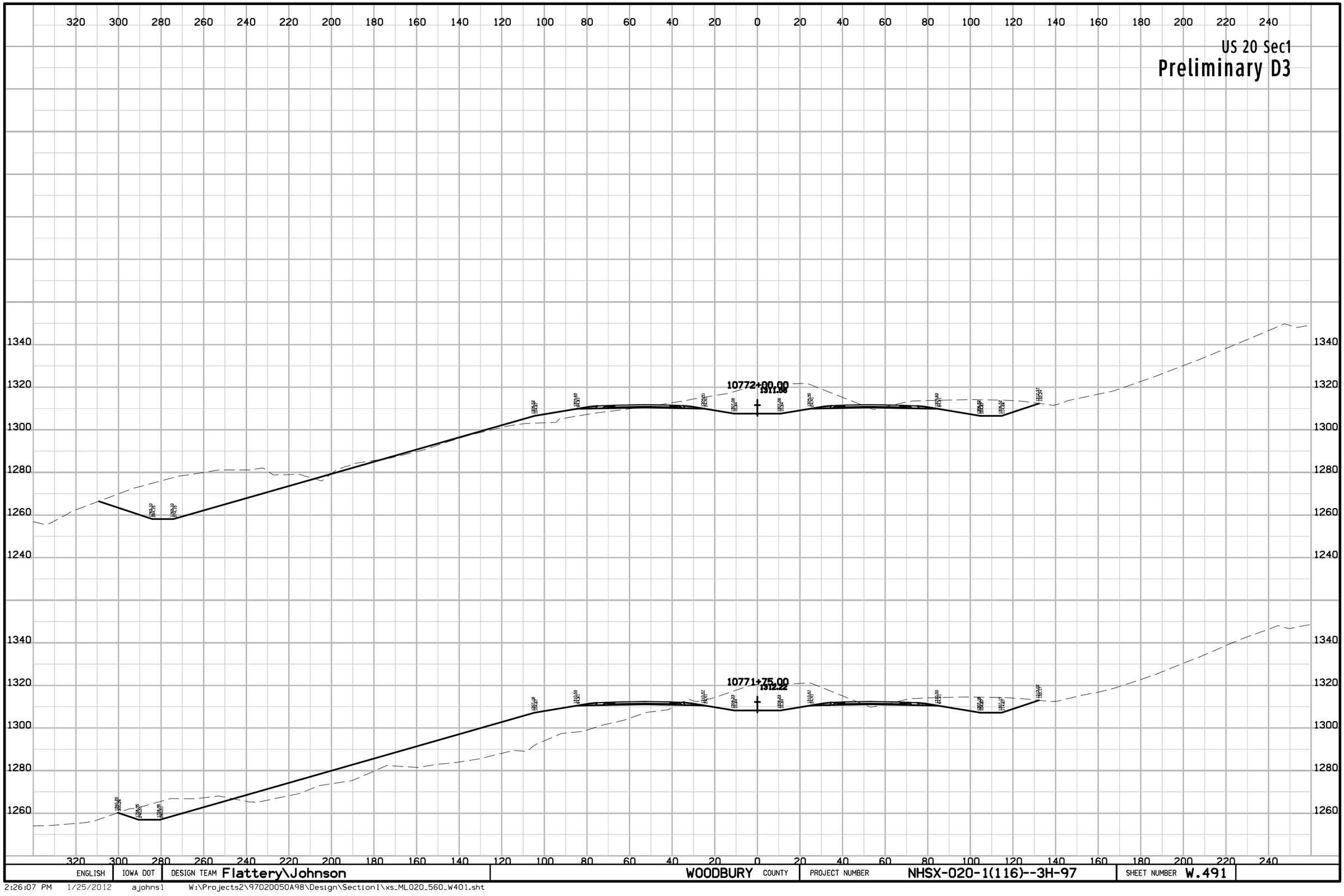


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.490

2:26:07 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

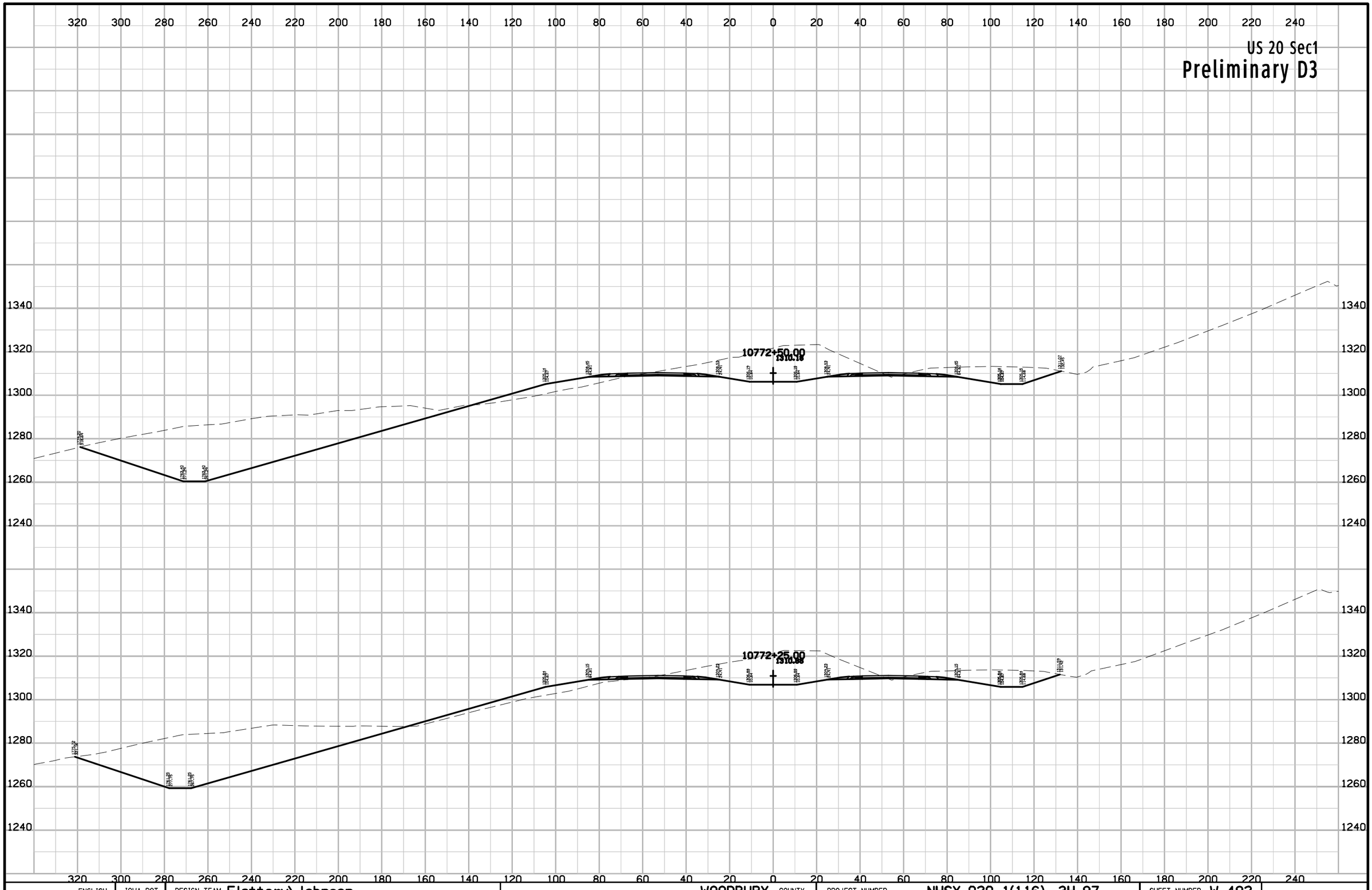


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.491

2:26:07 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.492

2:26:08 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

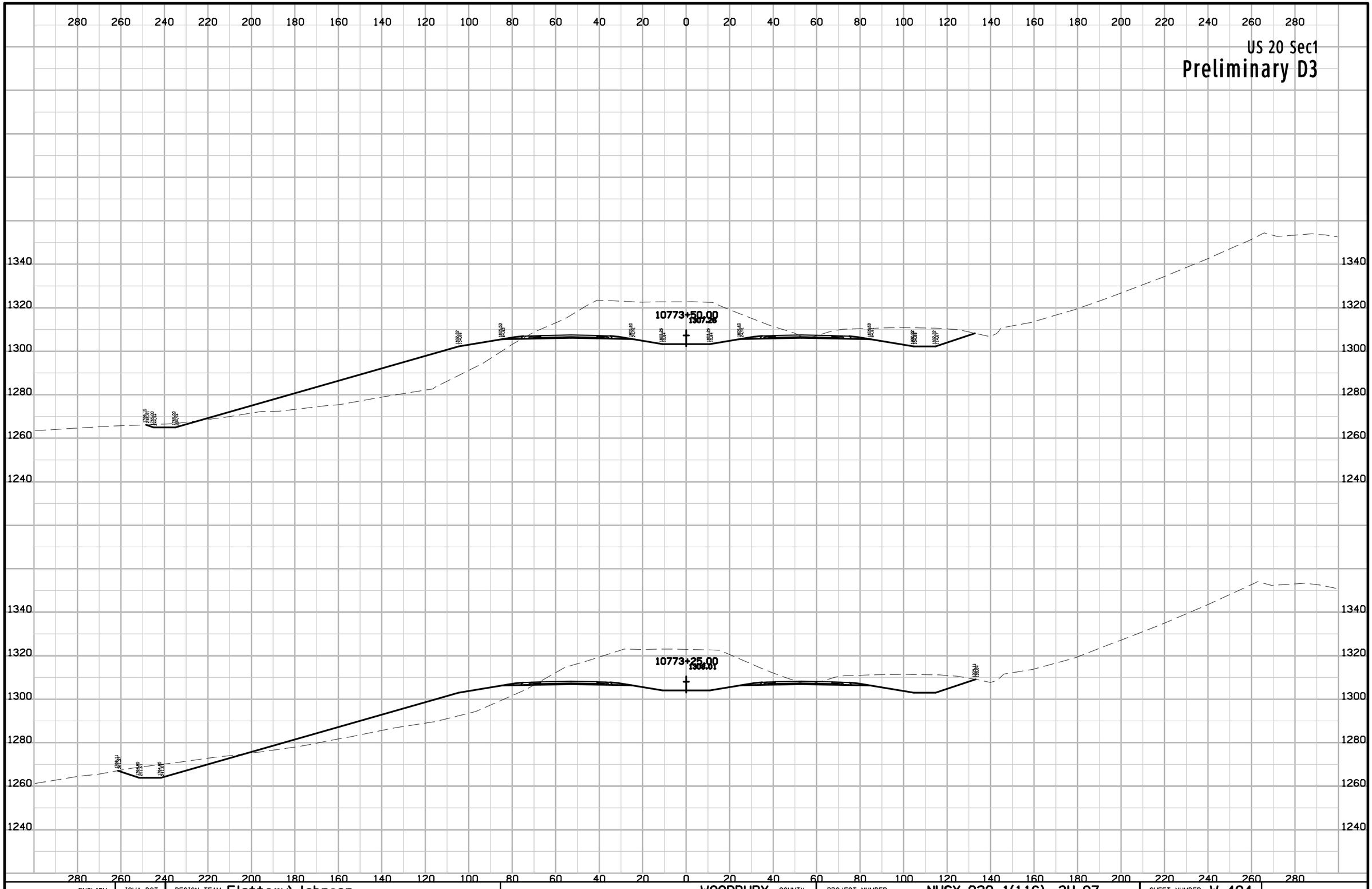
Preliminary D3

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.493	

2:26:08 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

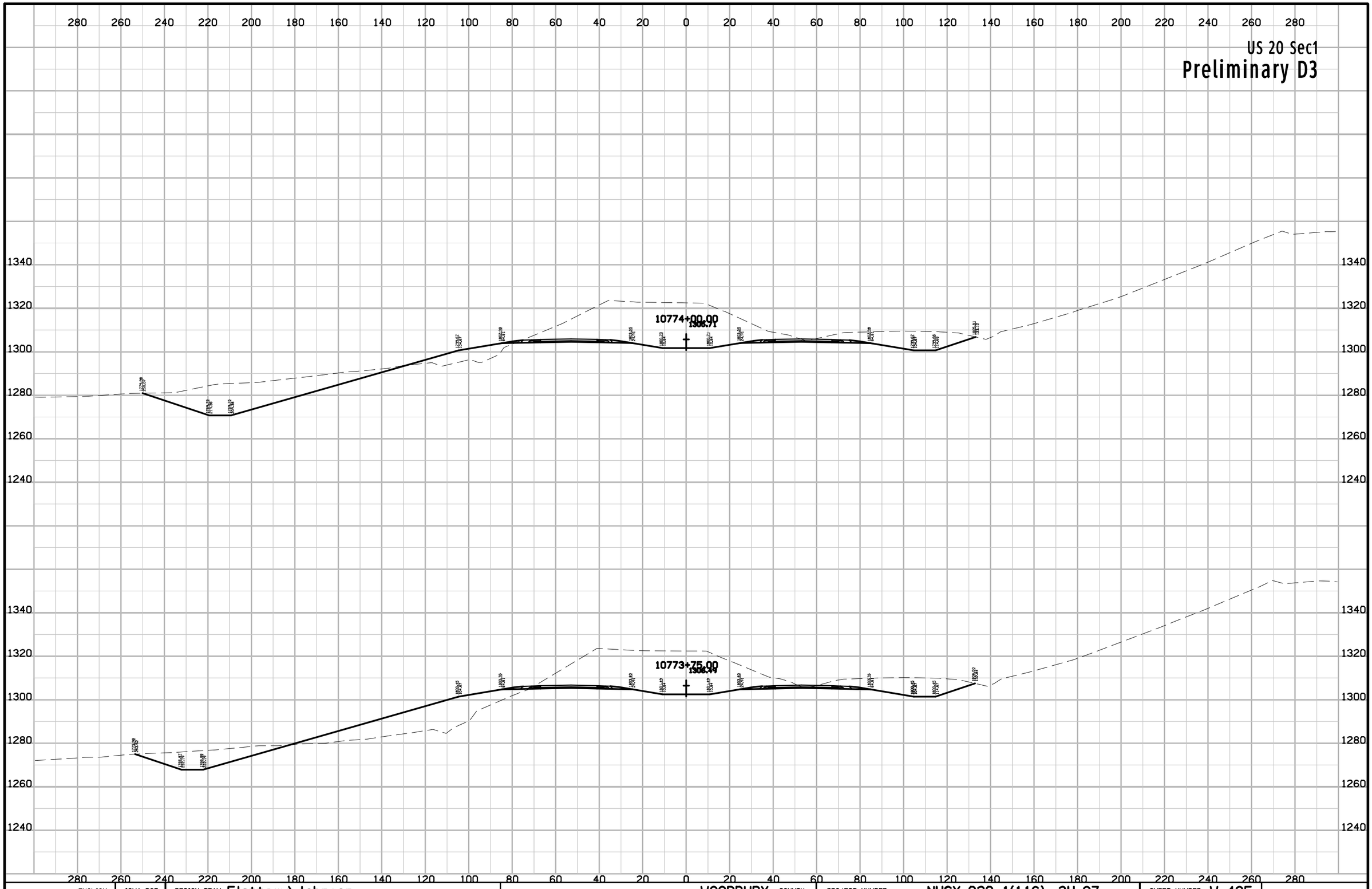


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.494	

2:26:09 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

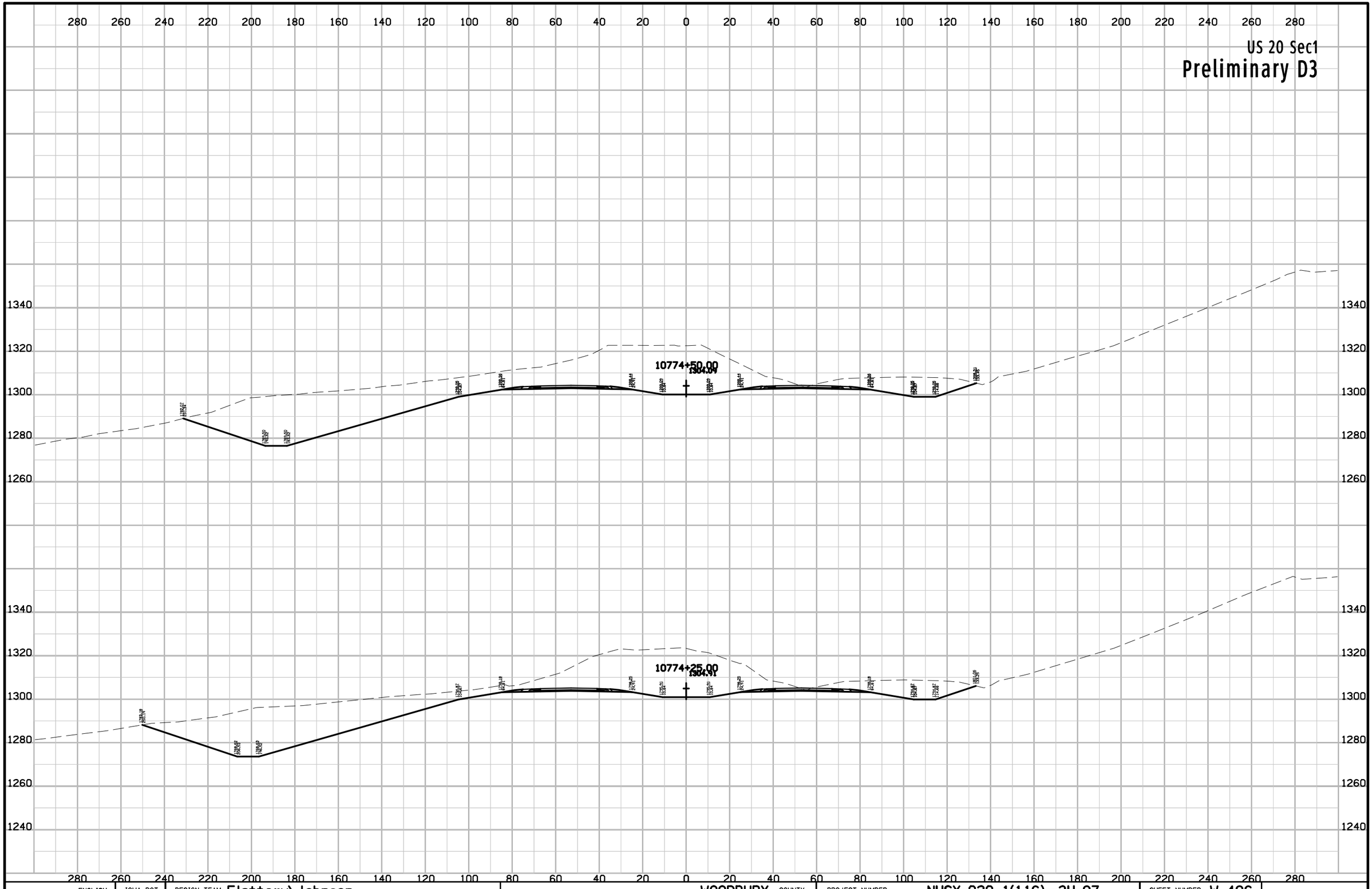


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.495

2:26:10 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

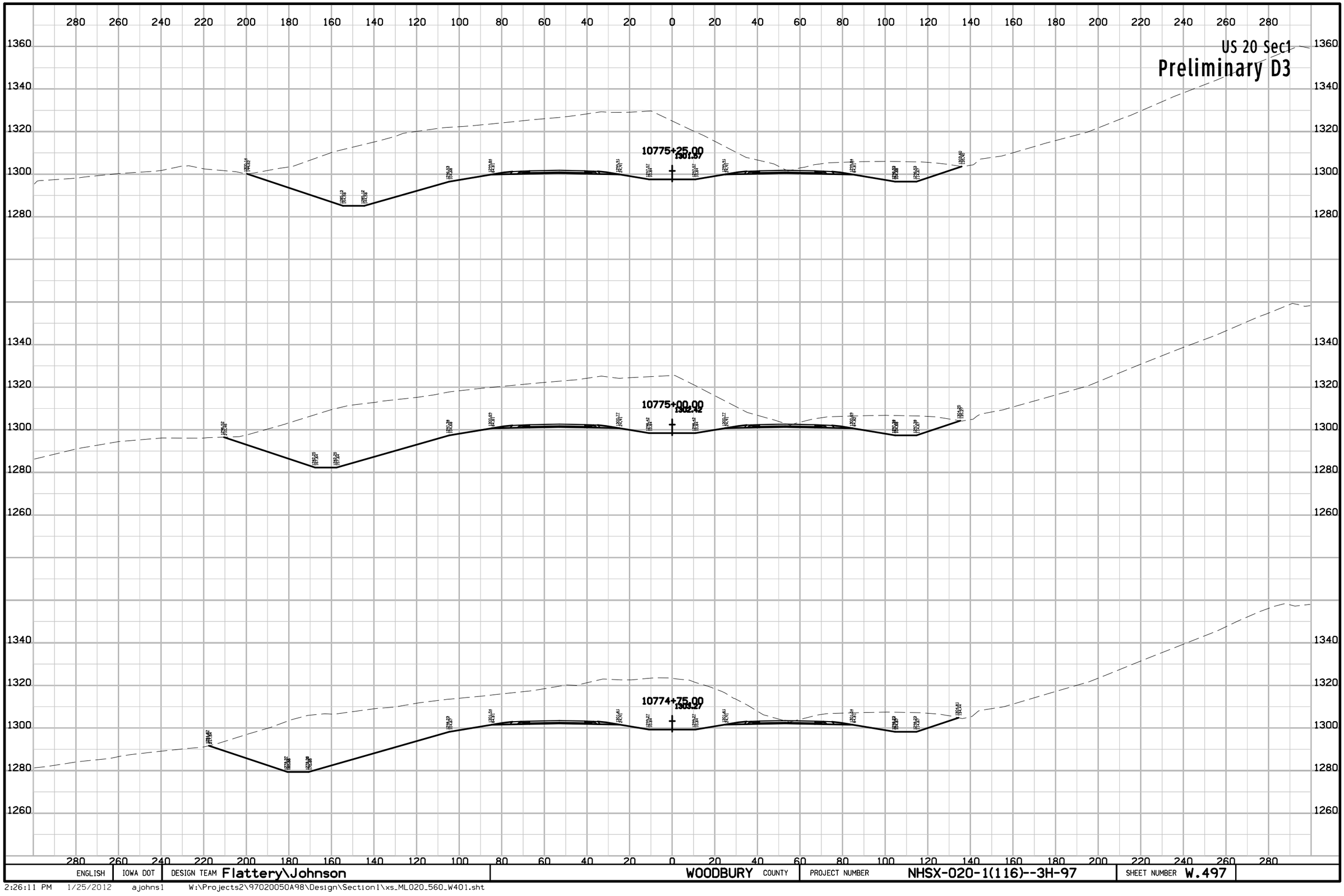


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.496

2:26:10 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

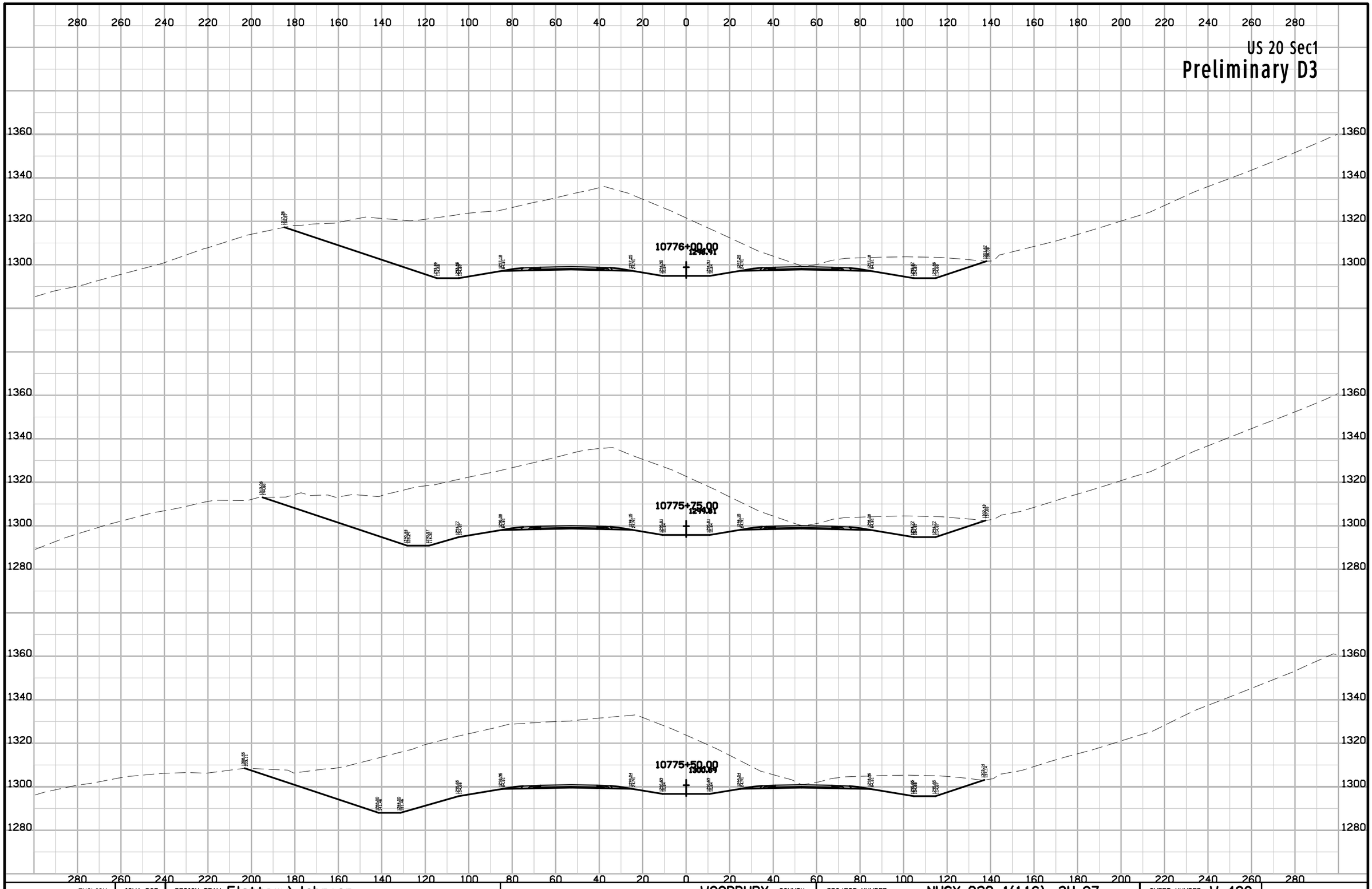


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.497

2:26:11 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

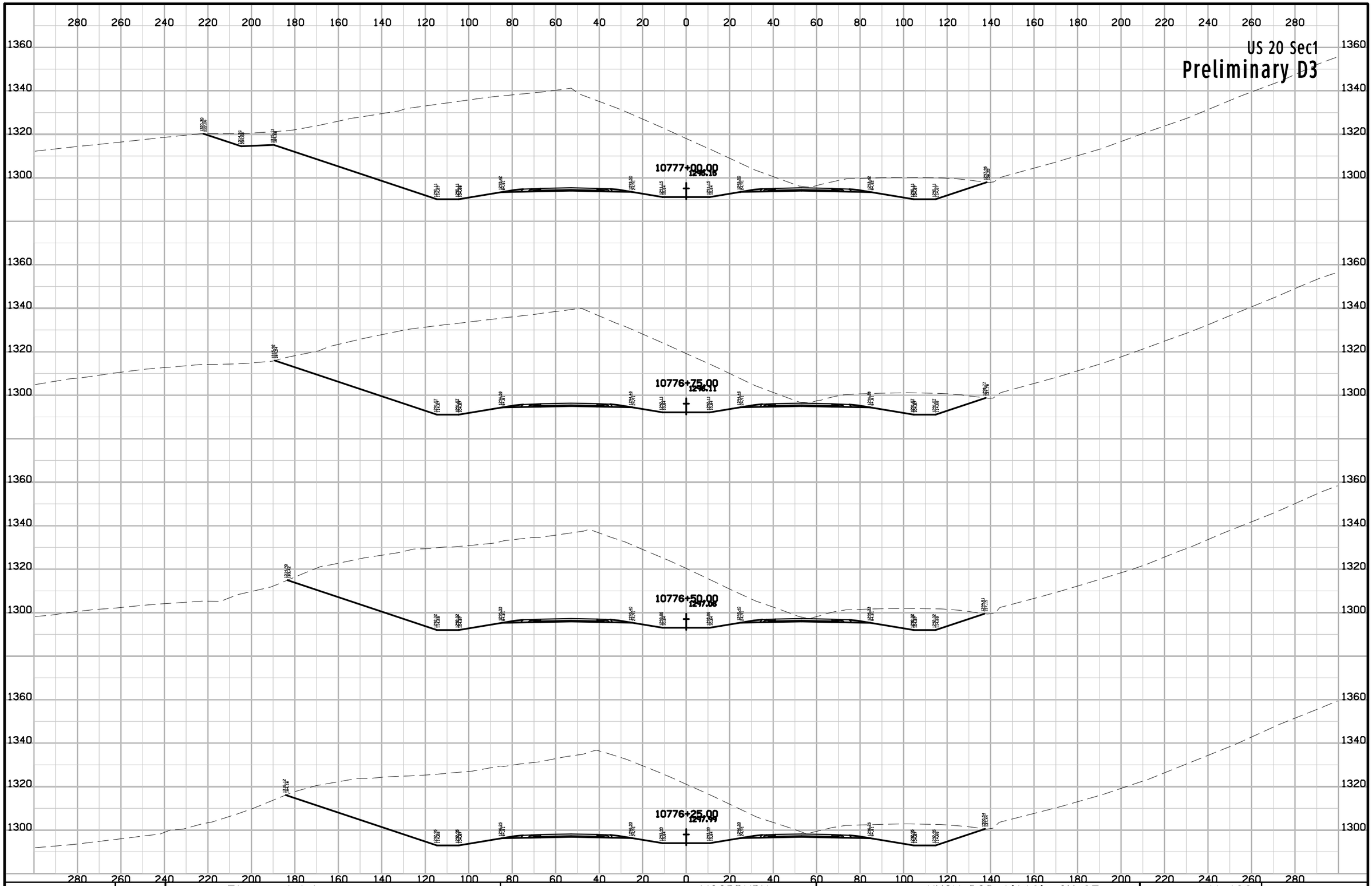


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.498	

2:26:11 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.499

2:26:12 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

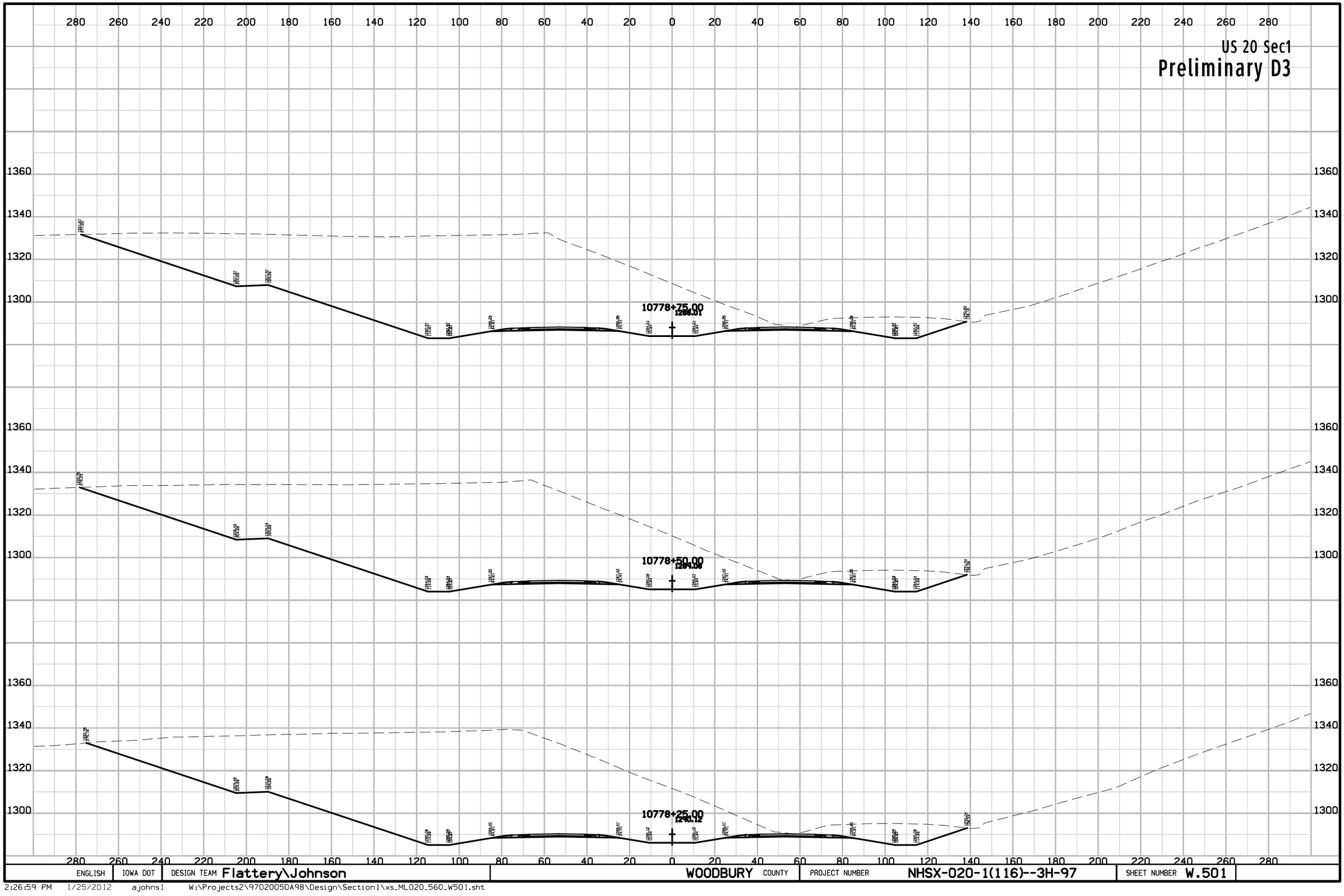
Preliminary D3

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.500

2:26:13 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W401.sht

US 20 Sec1

Preliminary D3

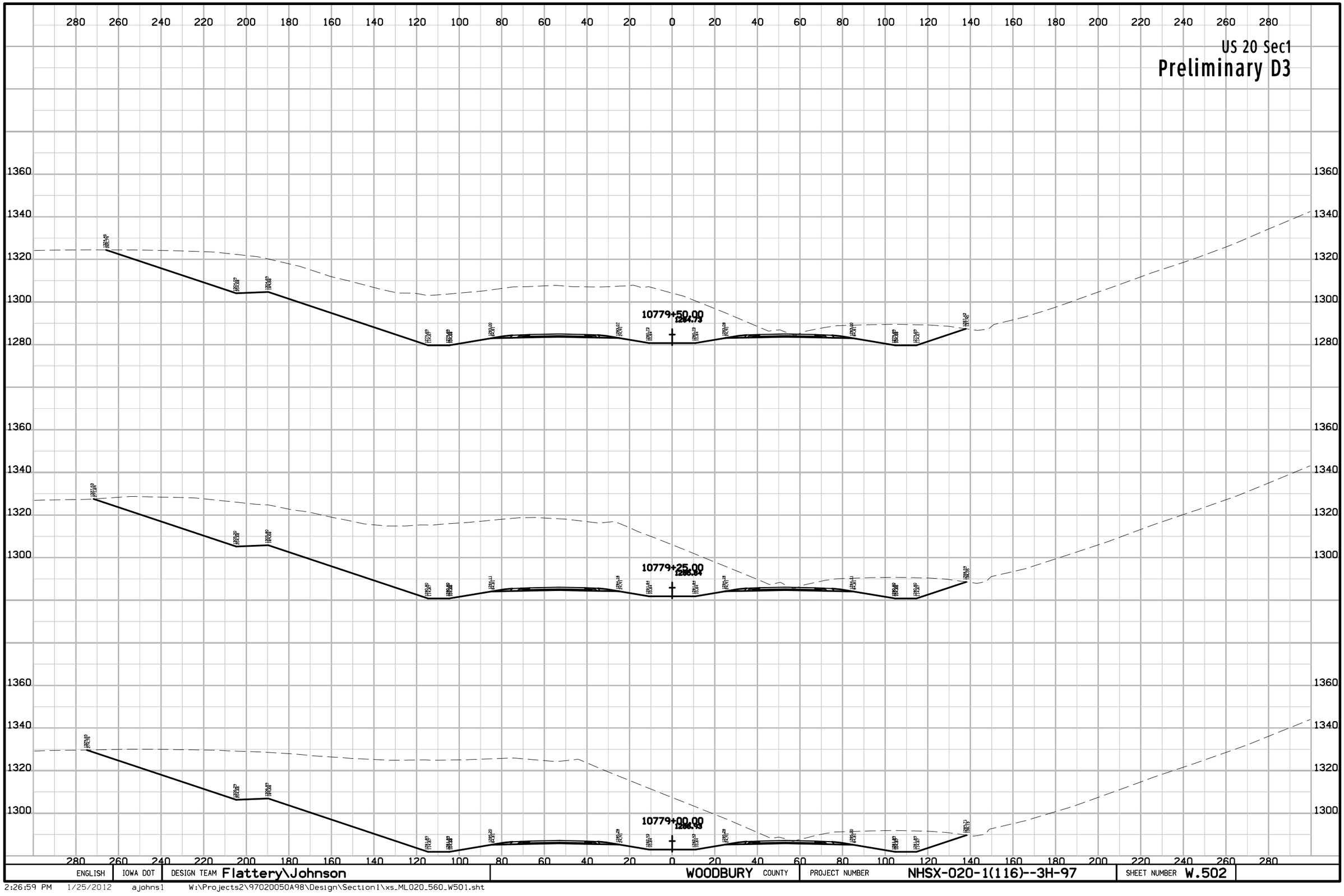


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.501

2:26:59 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

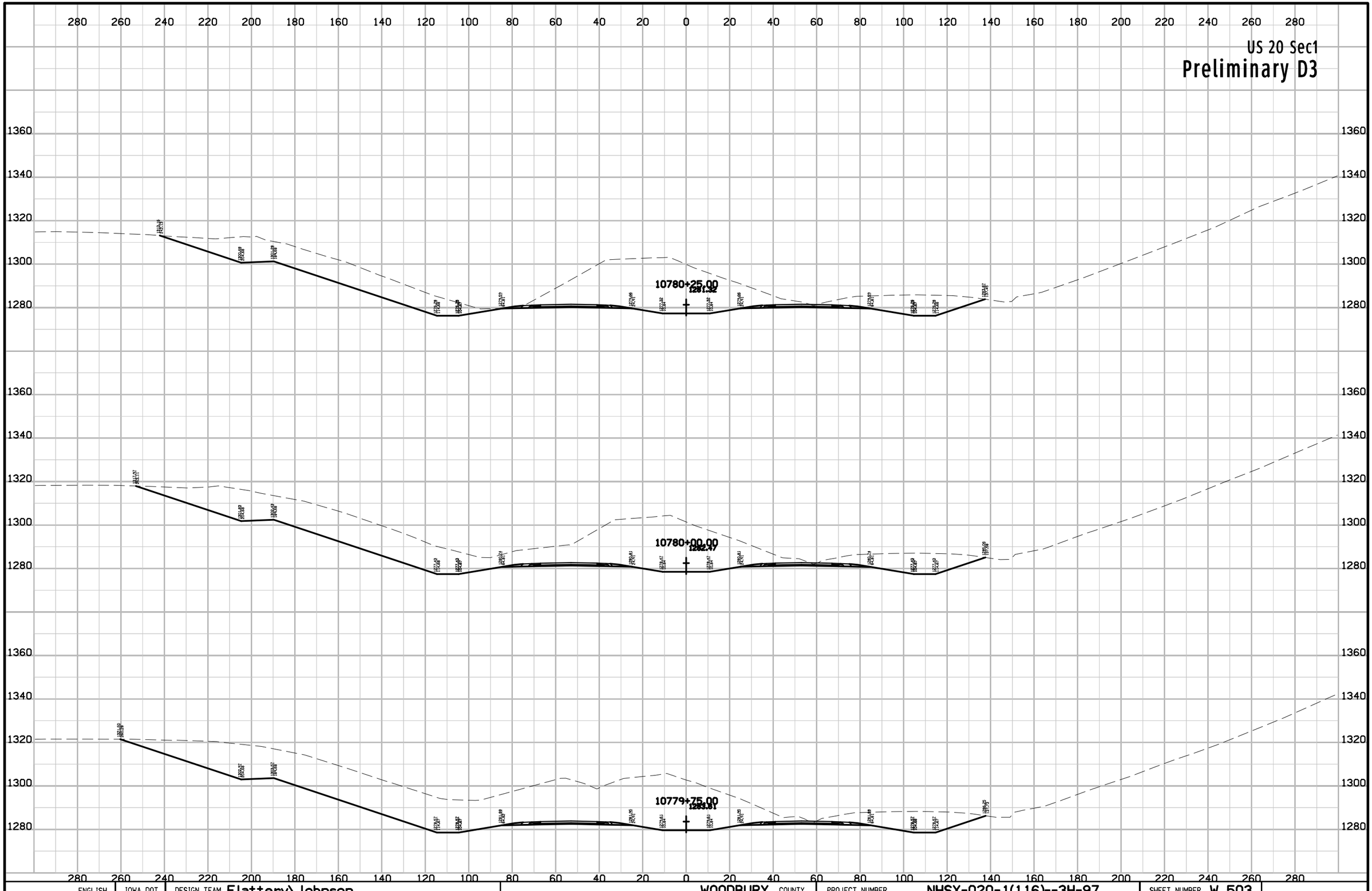


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.502

2:26:59 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

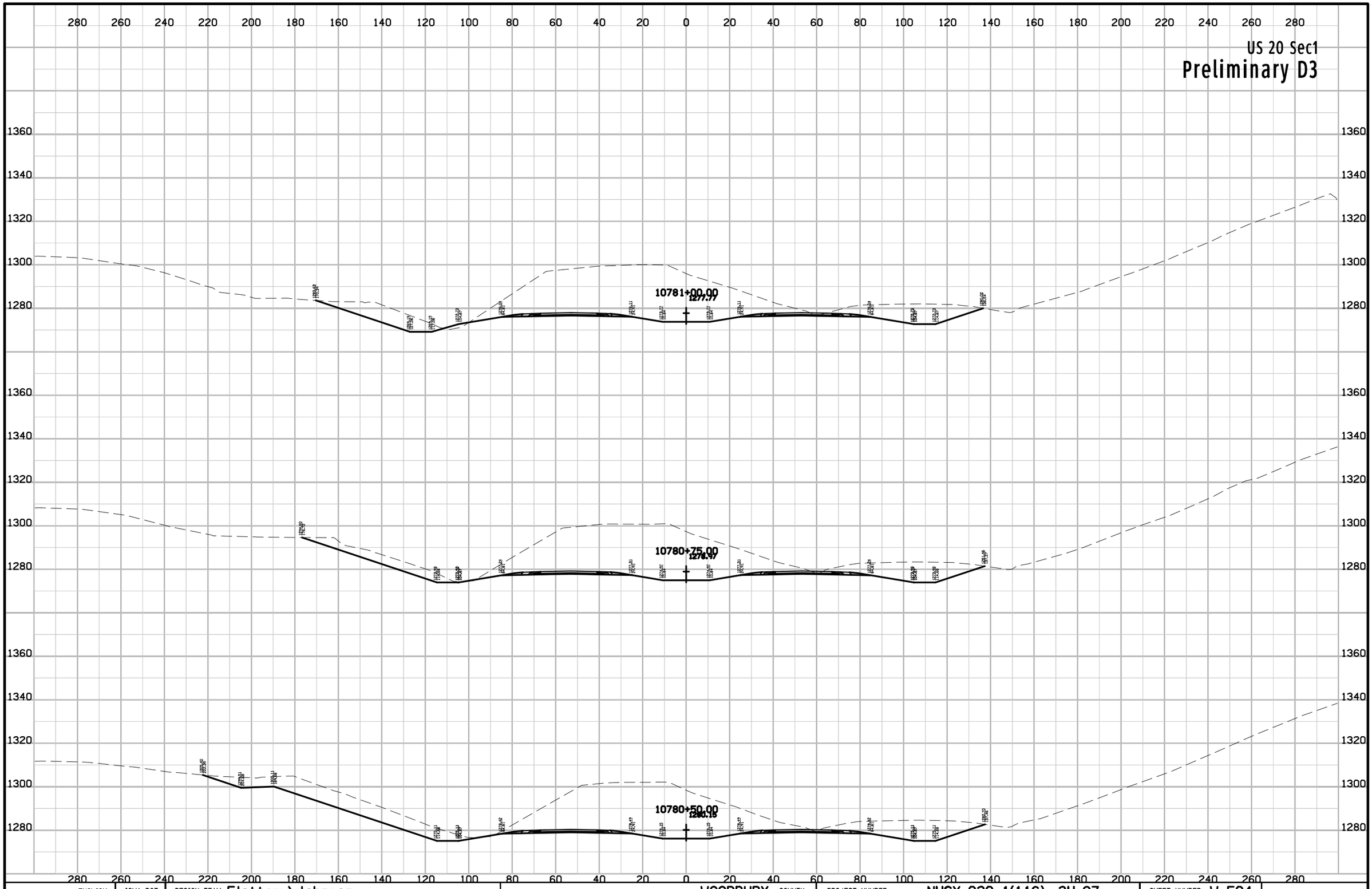


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.503

2:27:00 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

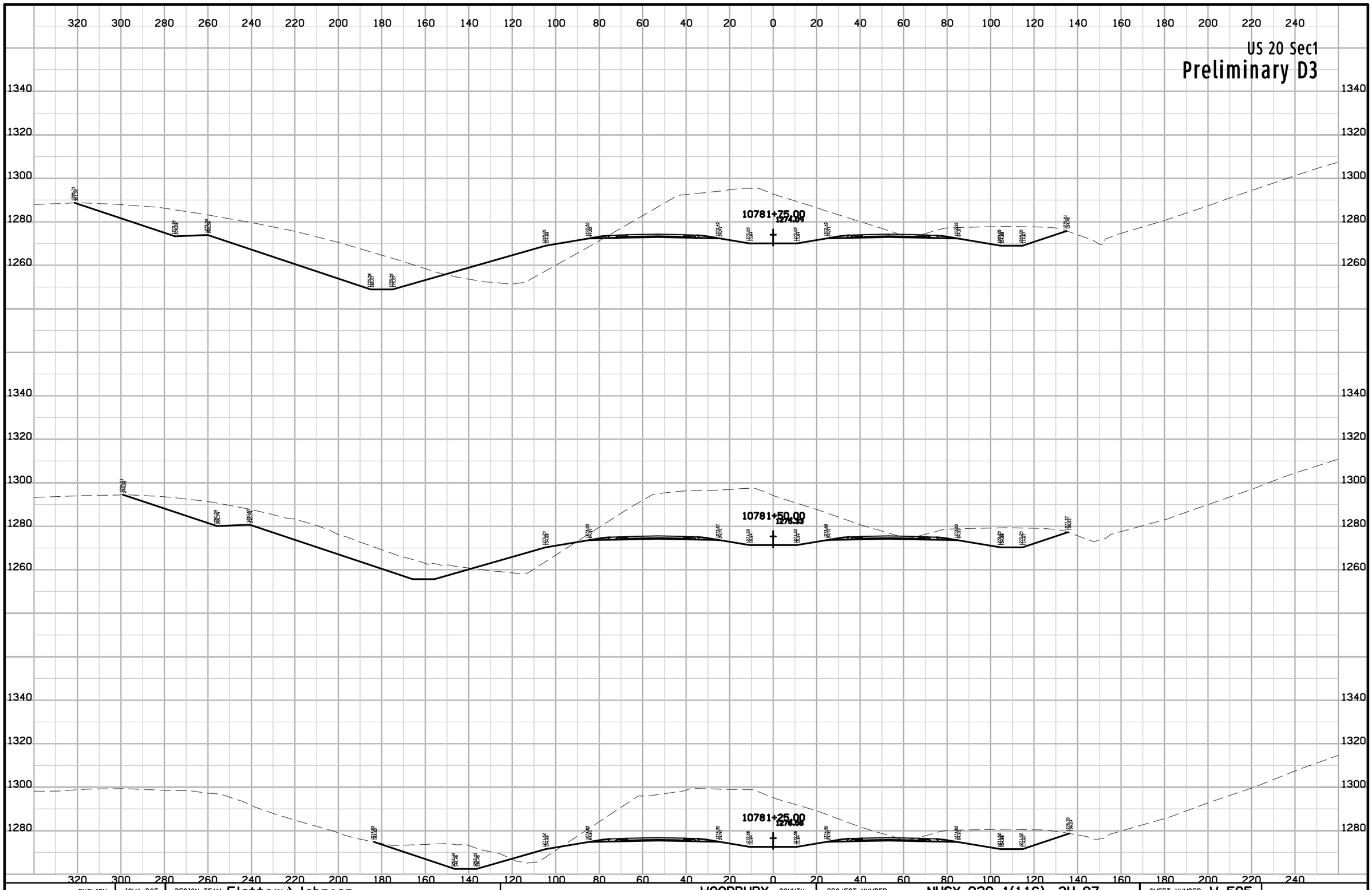


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.504

2:27:00 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

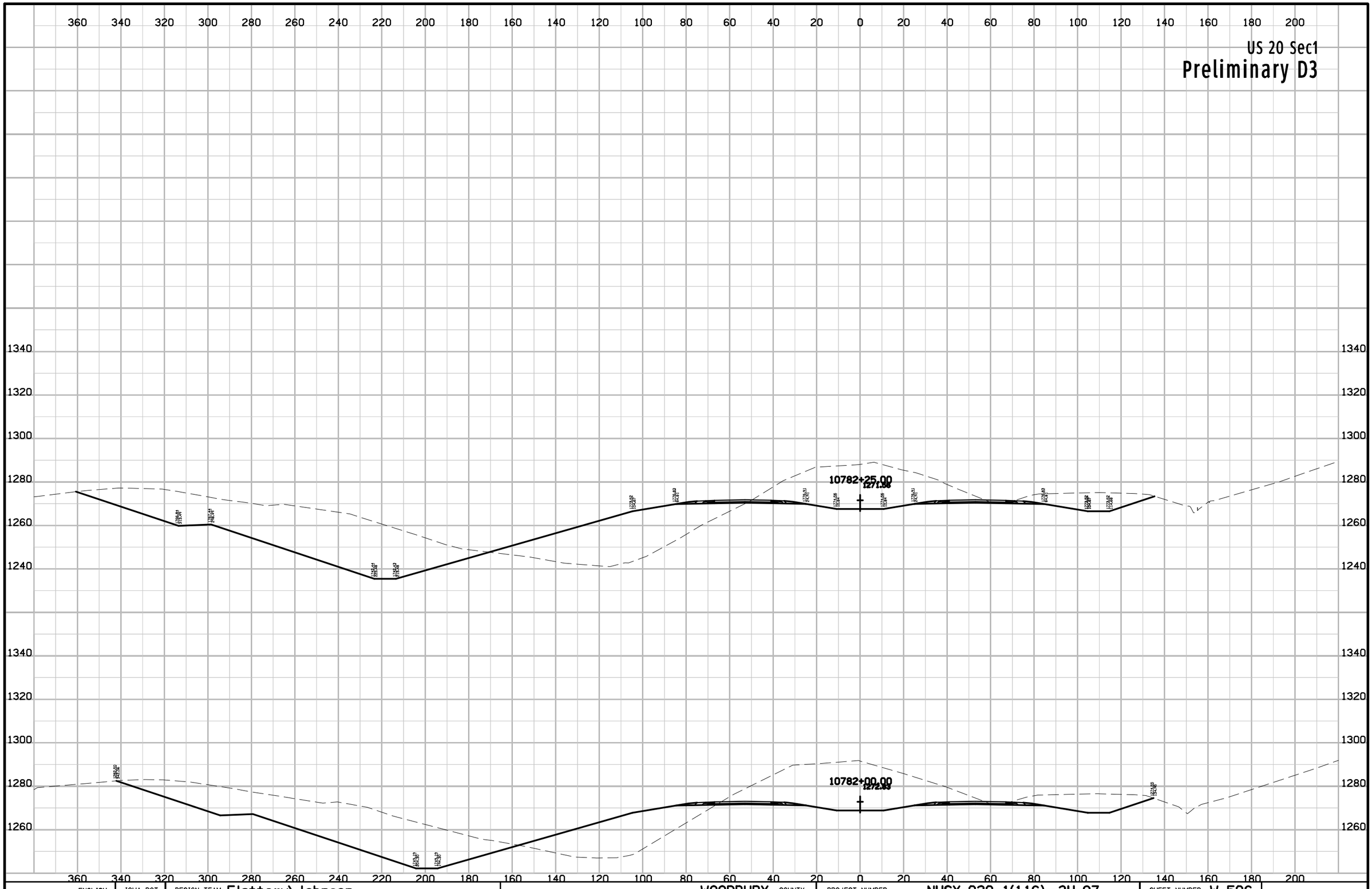


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.505

2:27:00 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

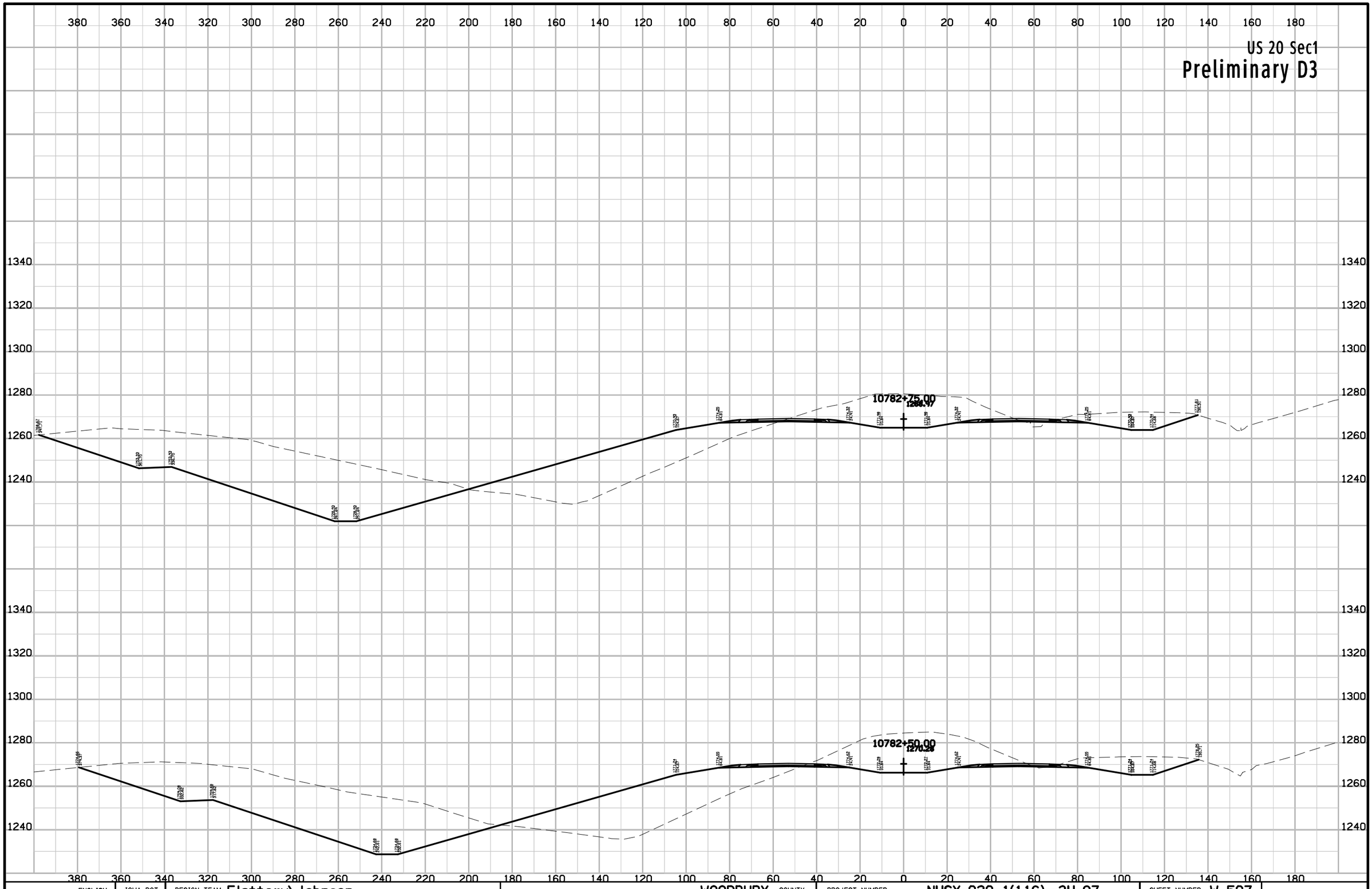


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.506

2:27:01 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

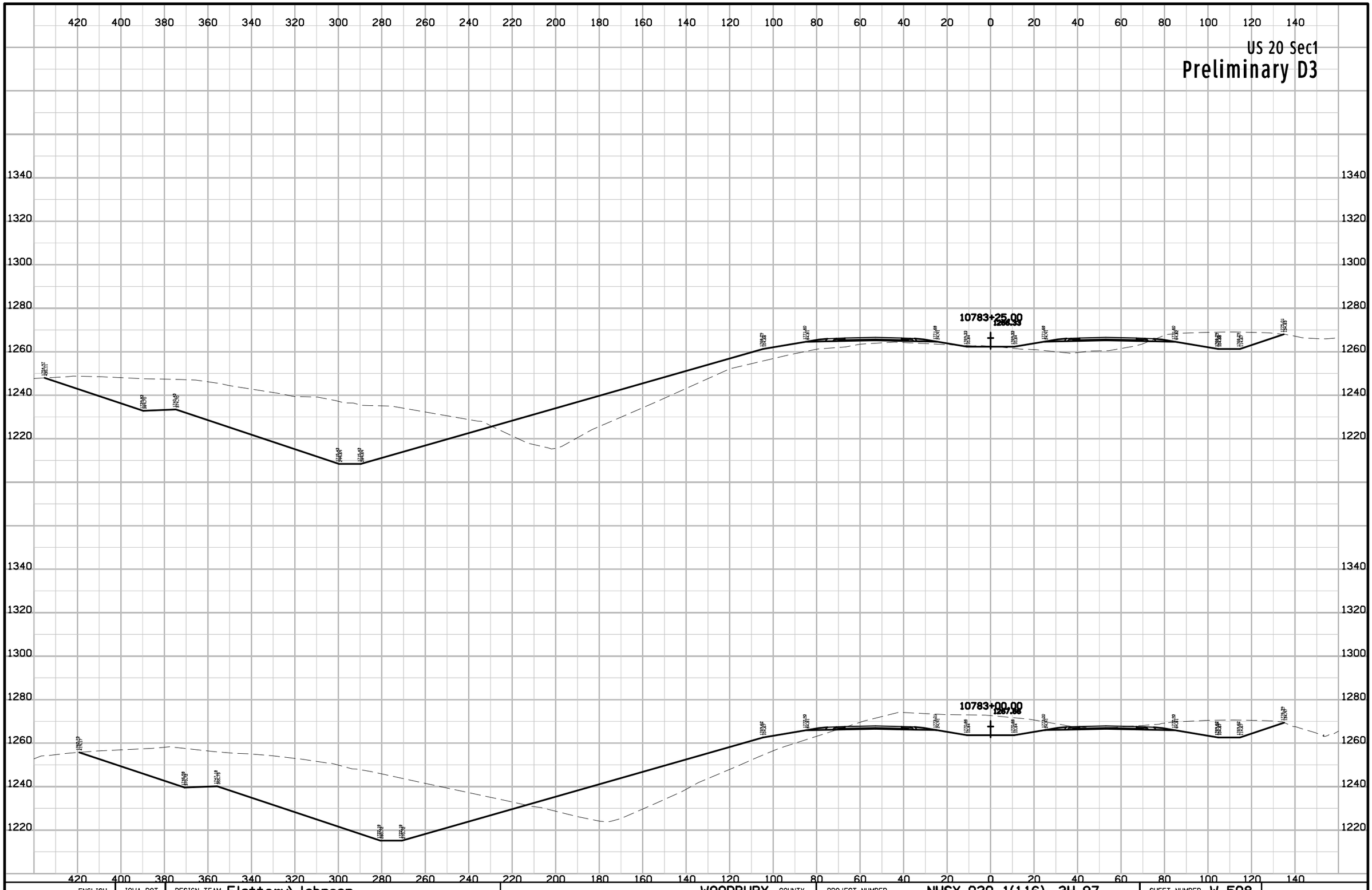


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.507	

2:27:01 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

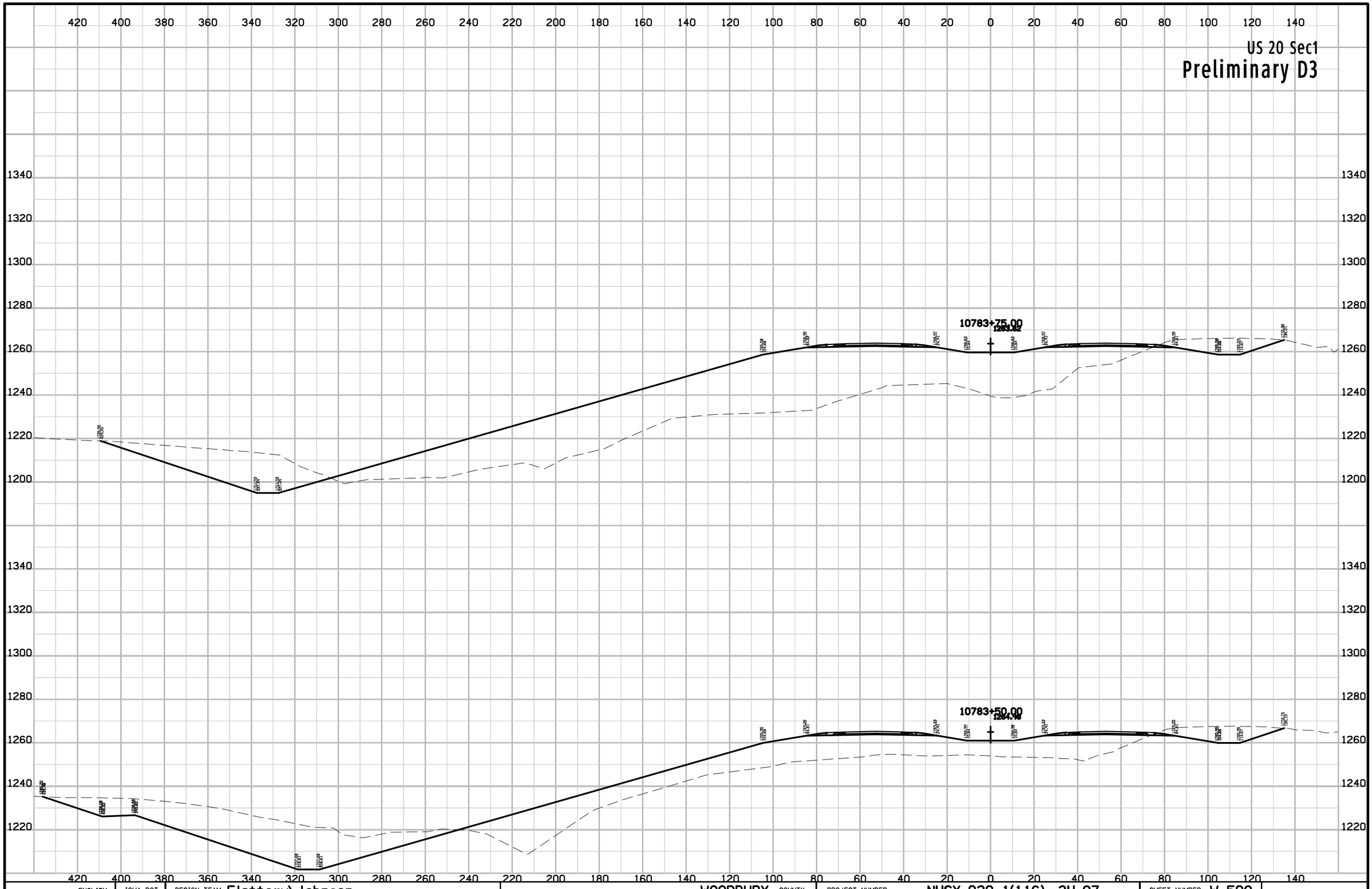


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.508

2:27:02 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

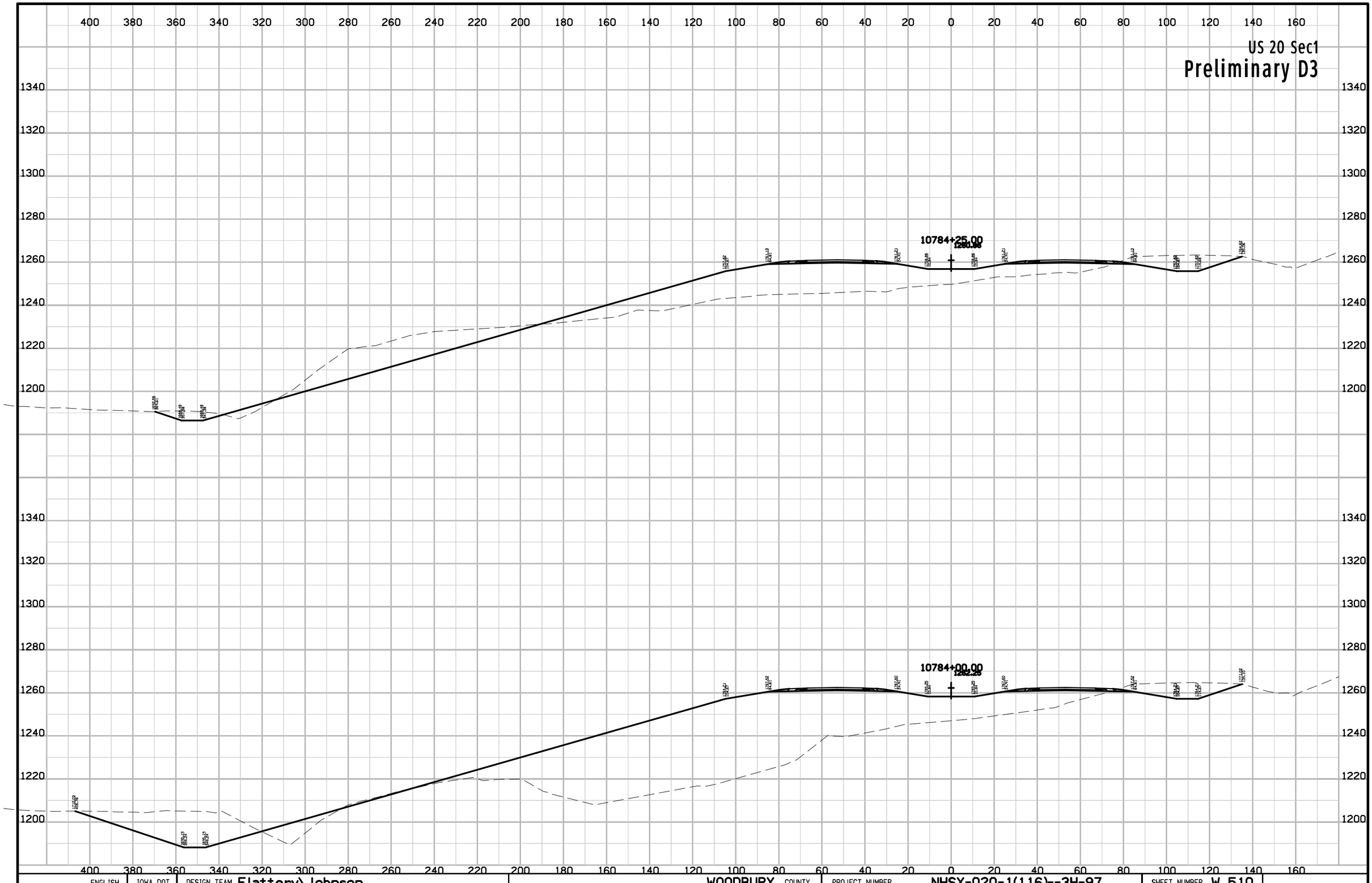


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.509

2:27:02 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

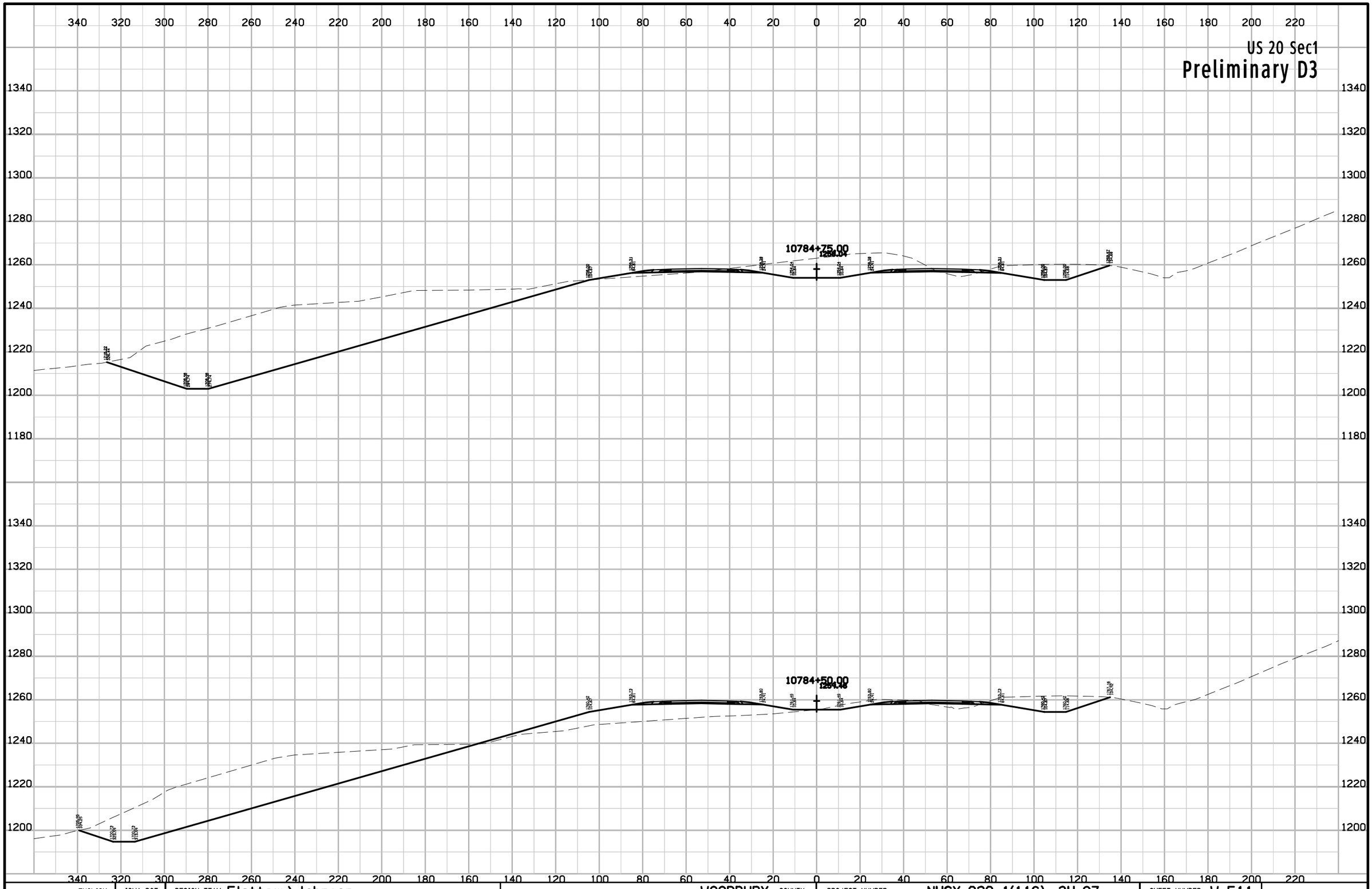


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.510

2:27:02 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

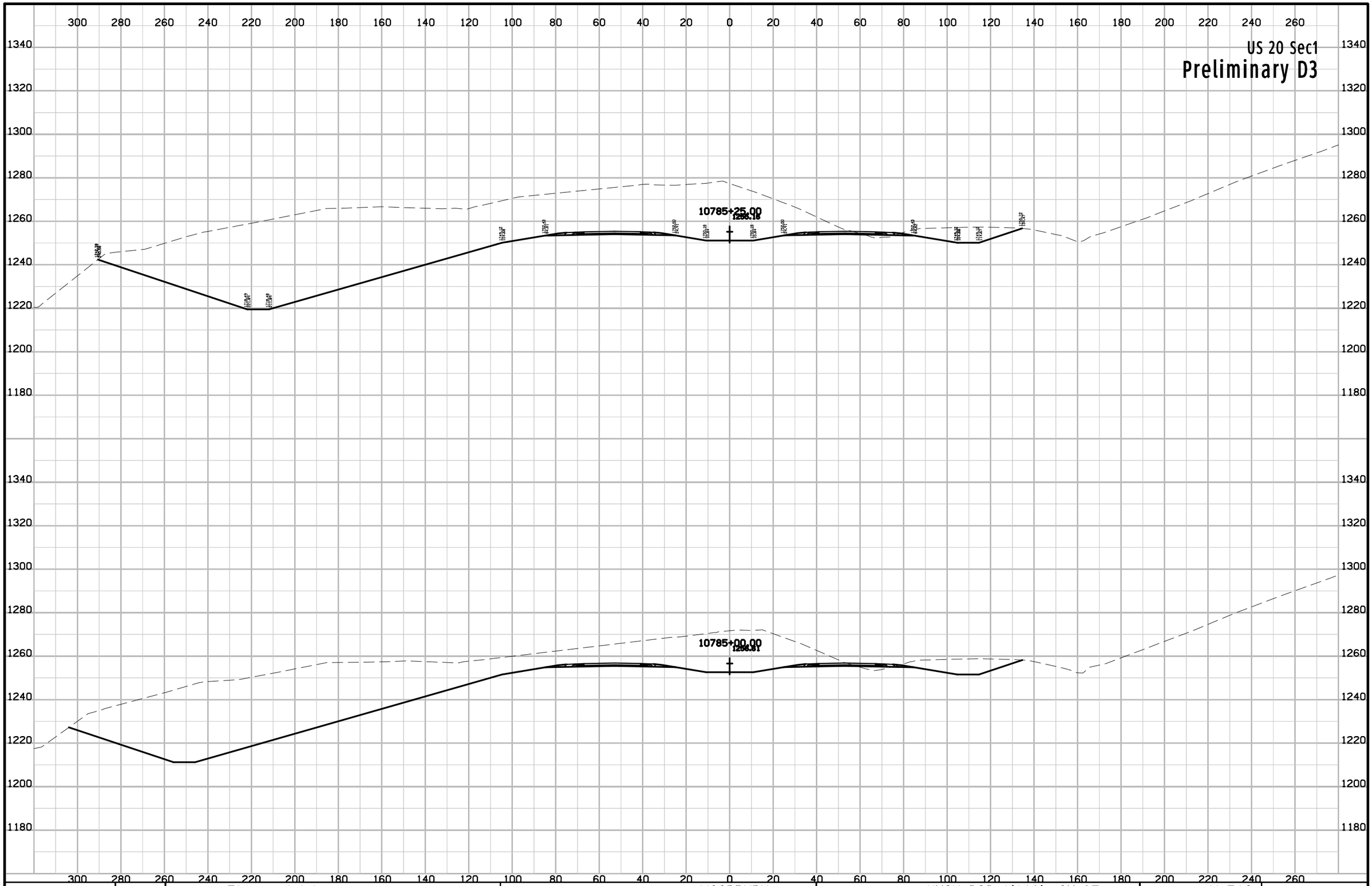


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.511

2:27:03 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

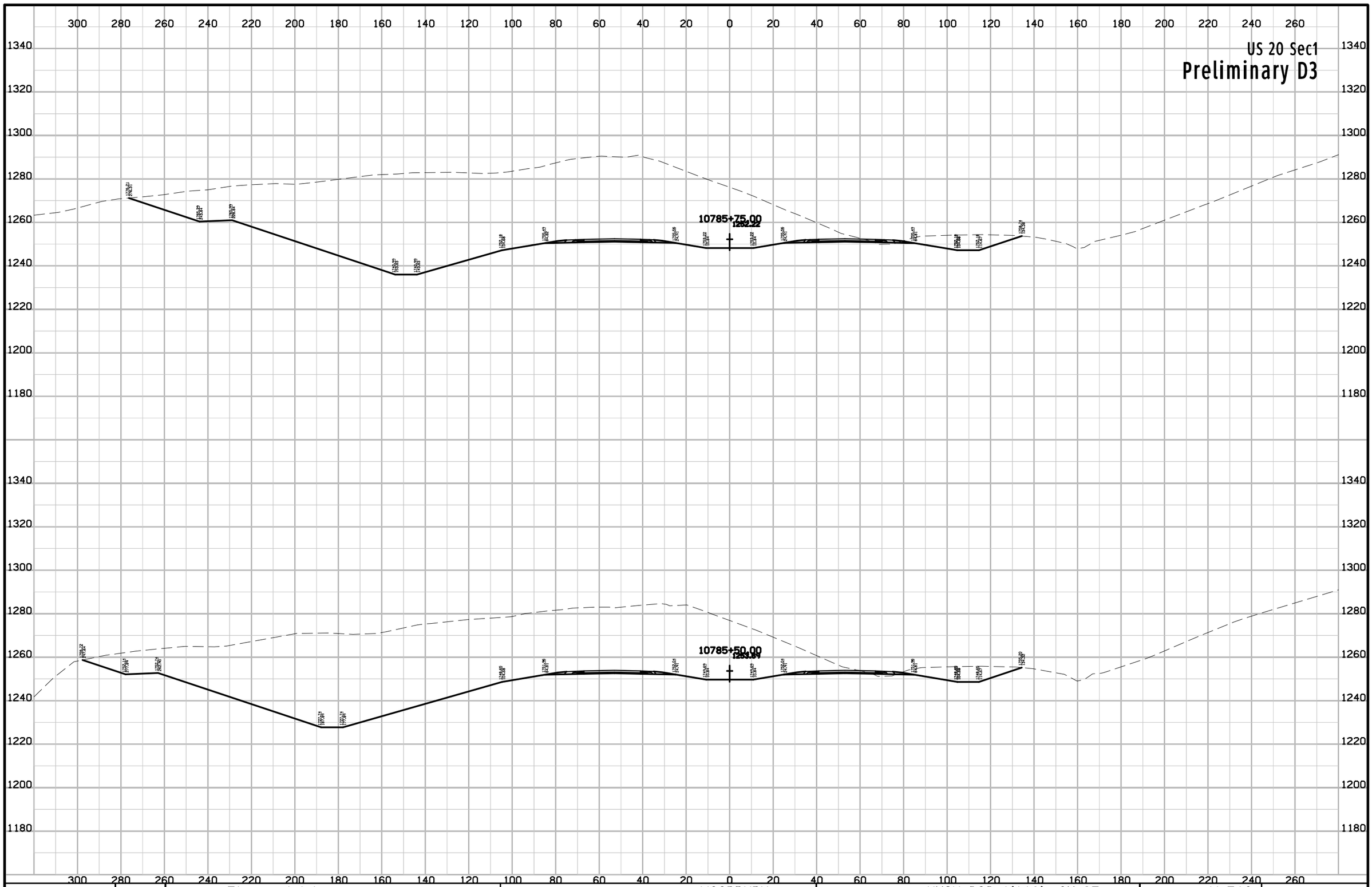


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.512

2:27:03 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.513

2:27:03 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.514

2:27:04 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.515

2:27:04 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.516

2:27:05 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

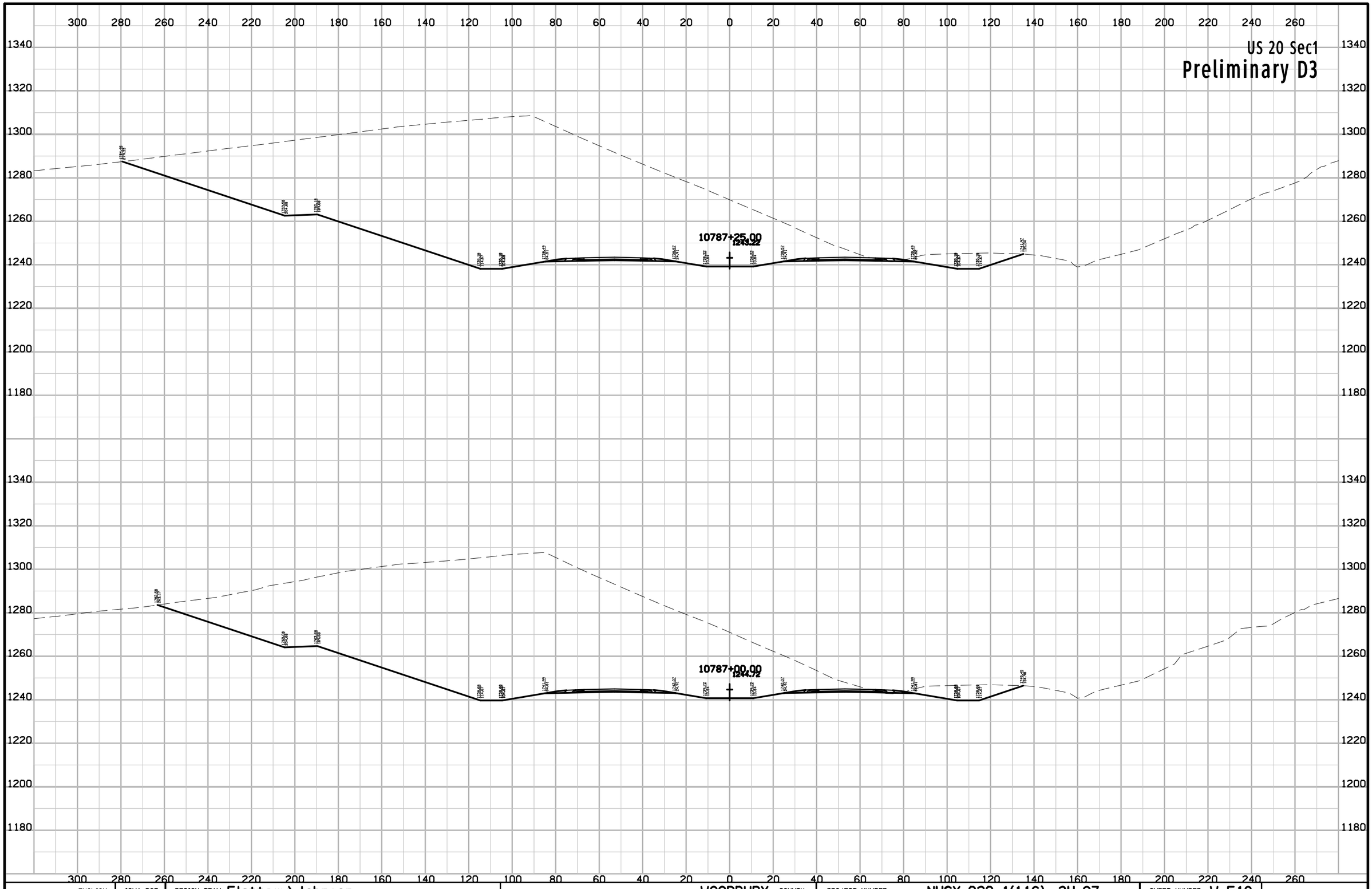
Preliminary D3

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.517

2:27:05 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

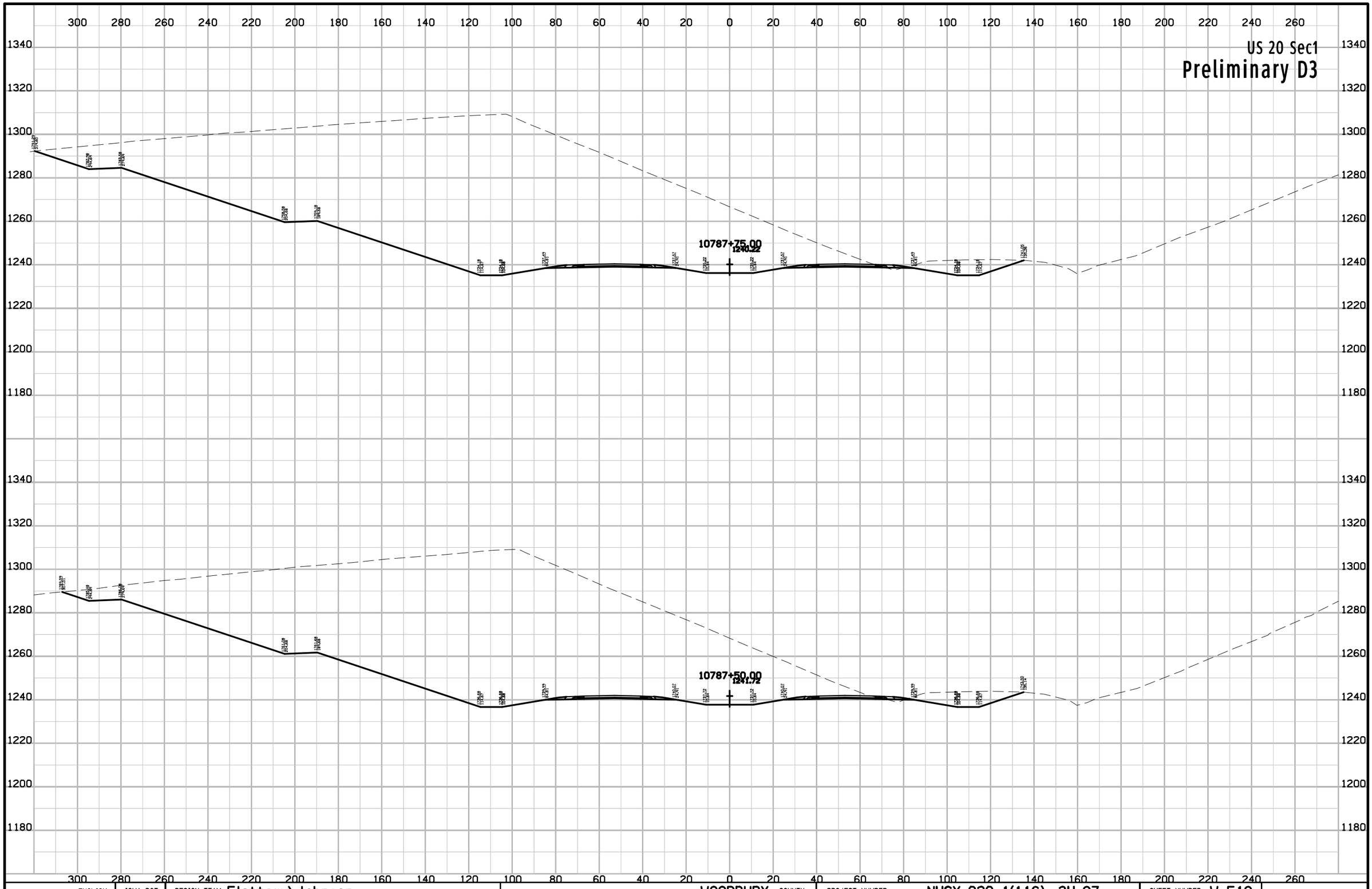


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.518

2:27:05 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

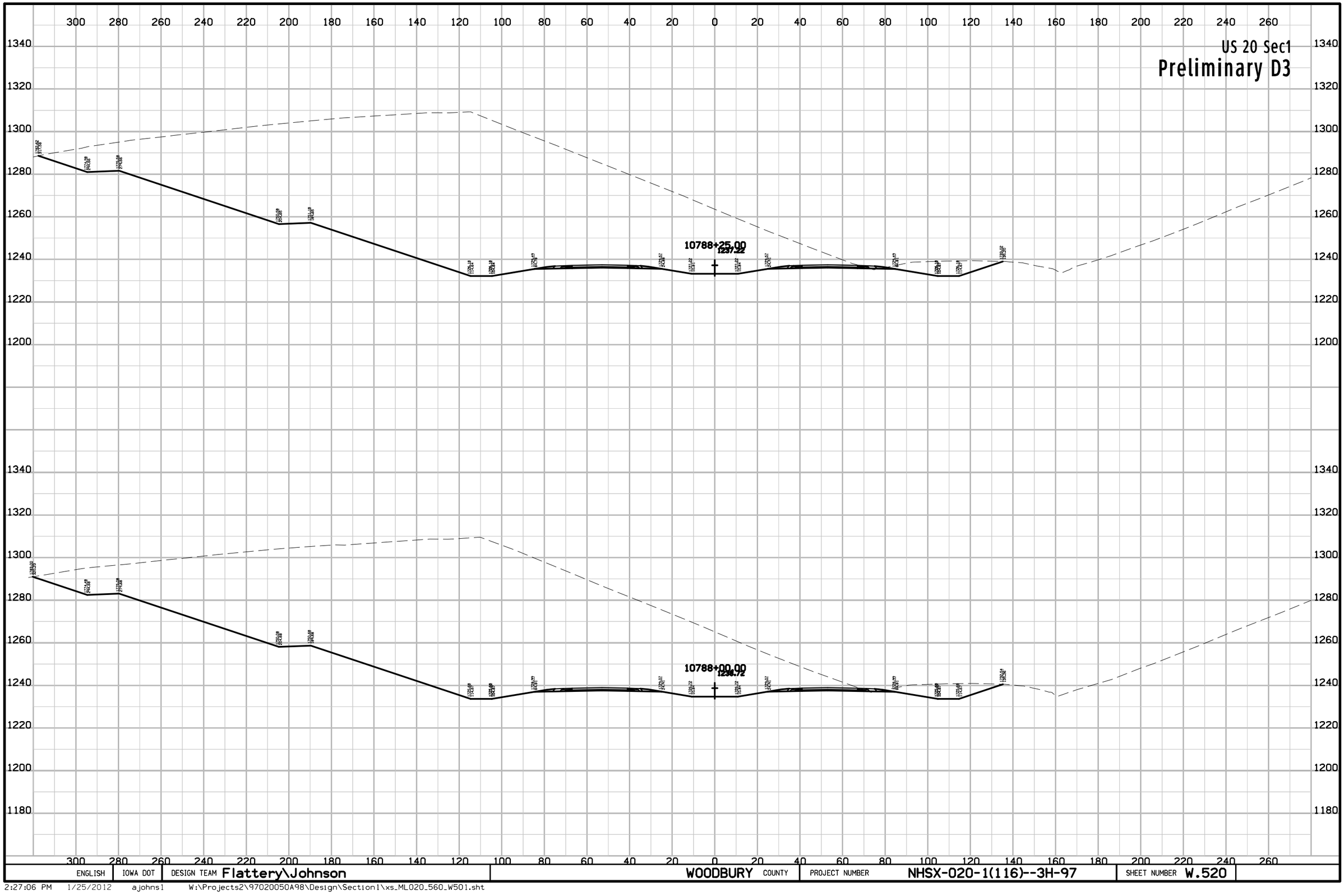


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.519

2:27:06 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

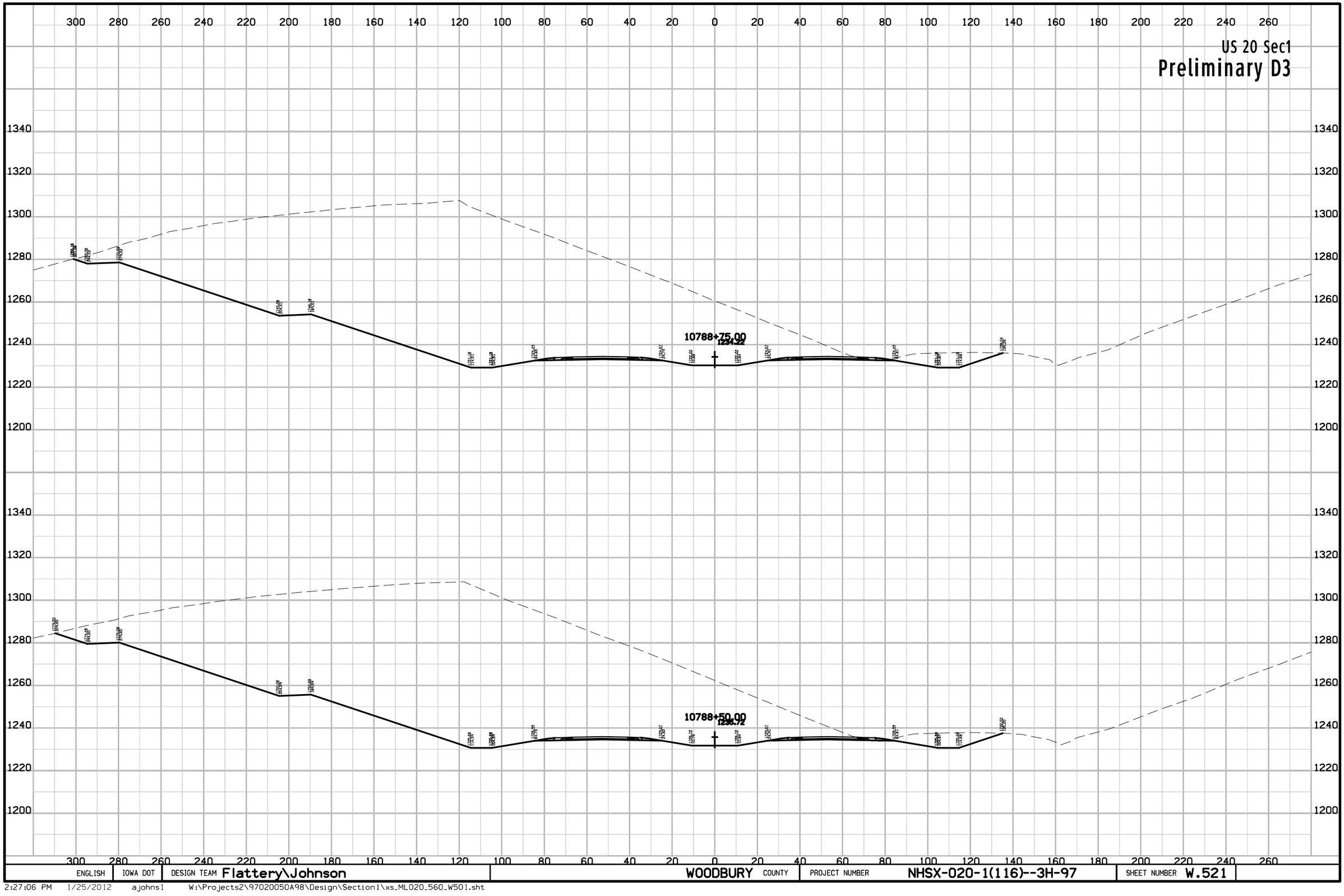


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.520

2:27:06 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

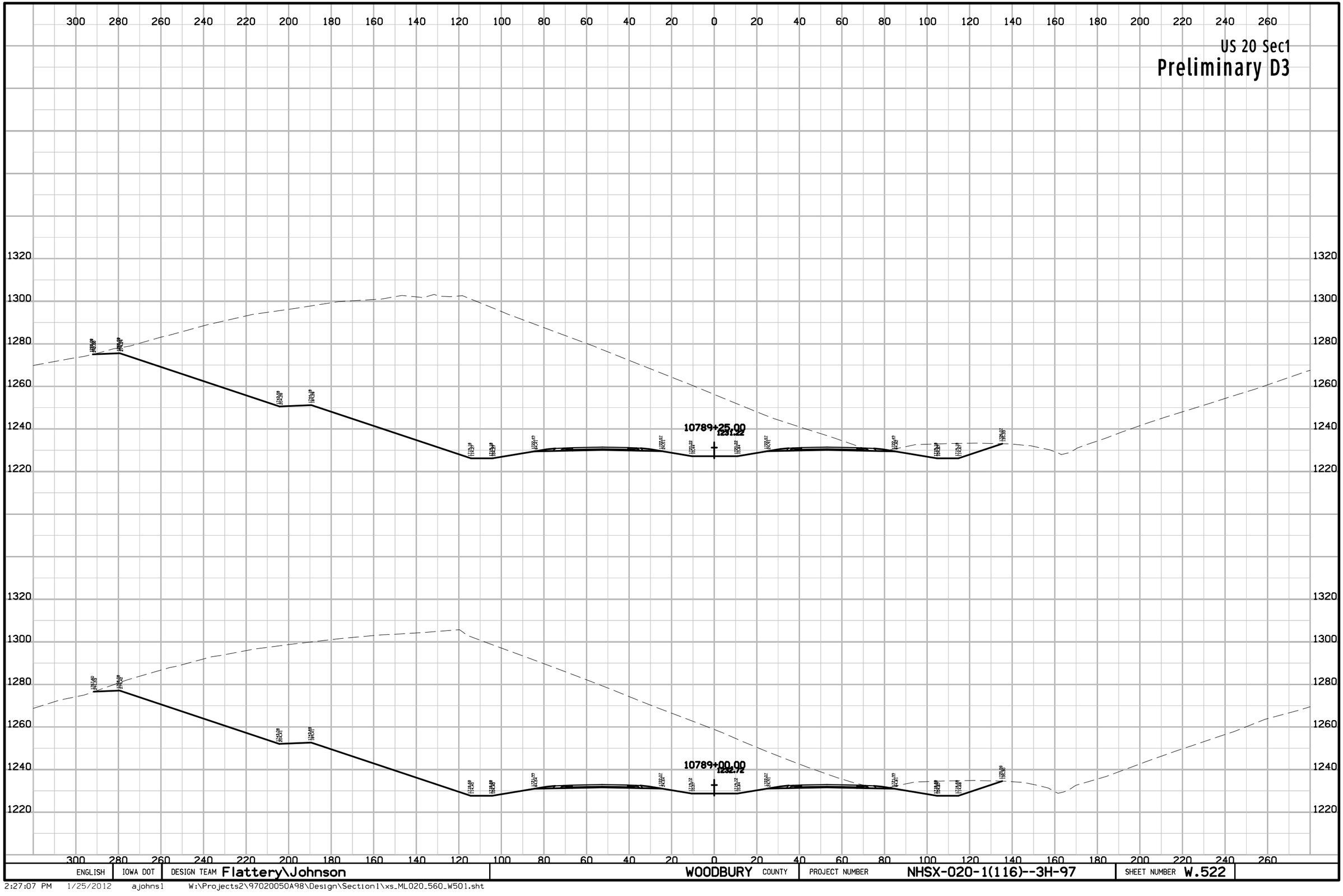


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.521

2:27:06 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.522

2:27:07 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260

1300
1280
1260
1240

10790+00.00
1226.72

10789+75.00
1226.22

10789+50.00
1224.72

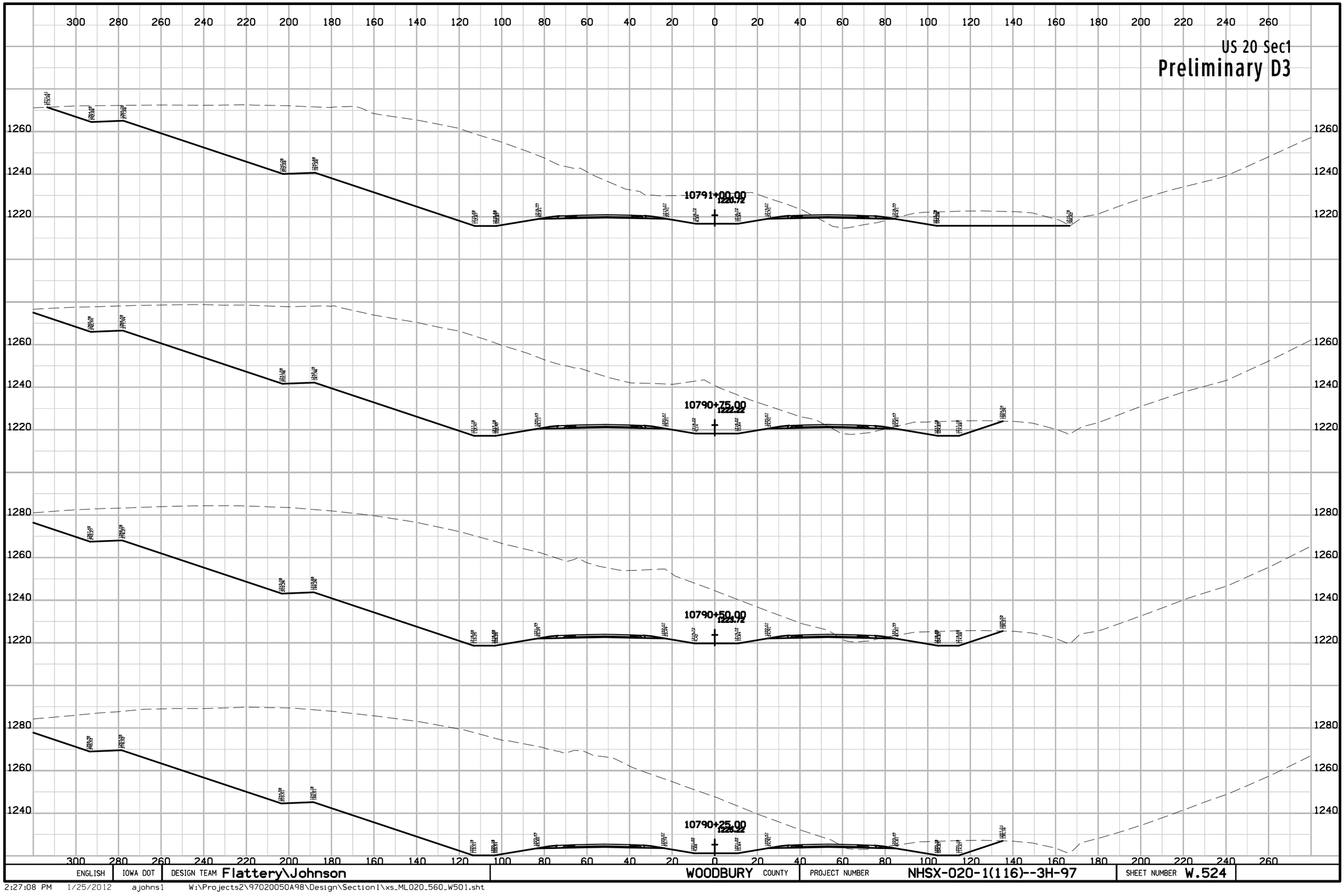
1320
1300
1280
1260
1240

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.523

2:27:07 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

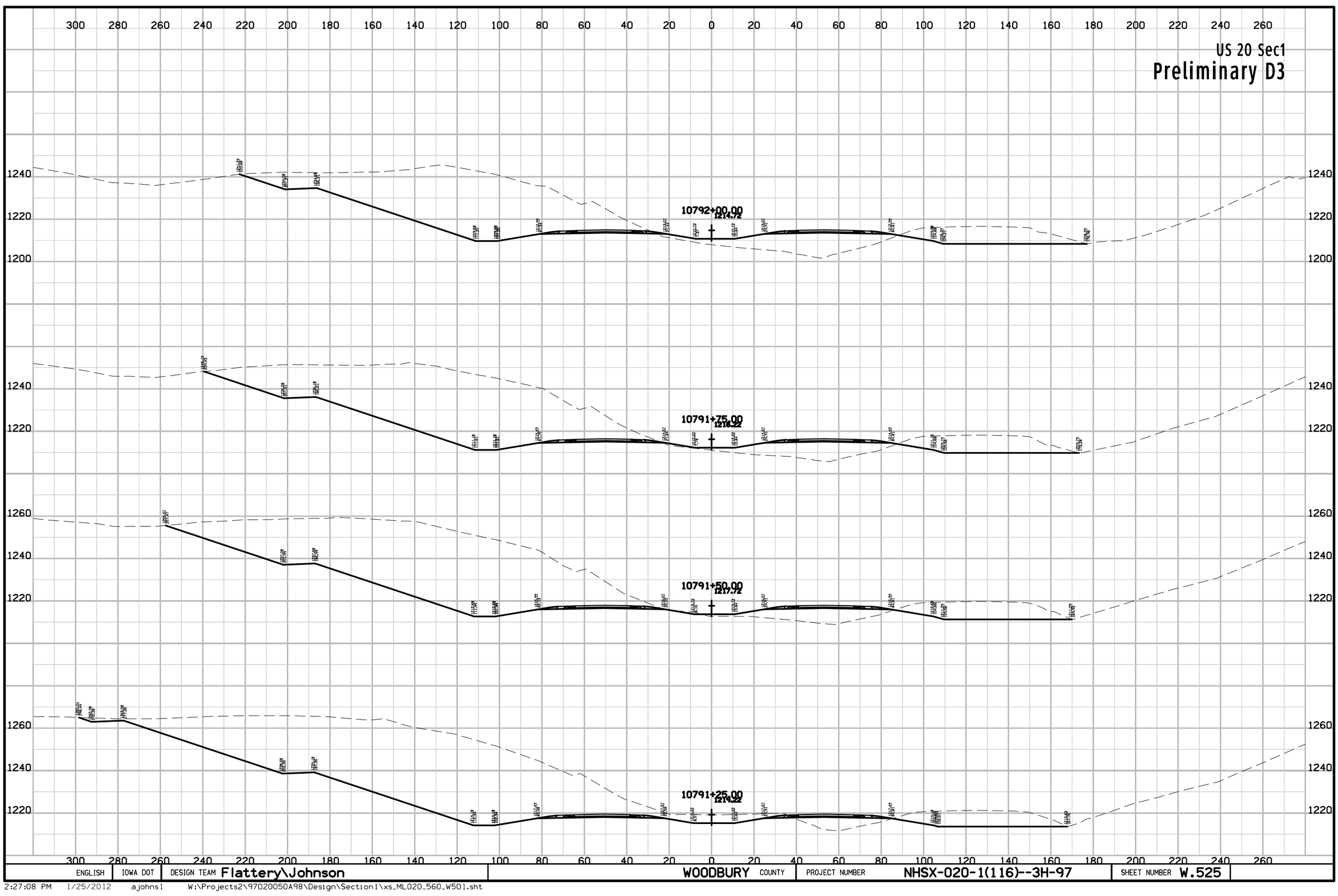


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.524

2:27:08 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

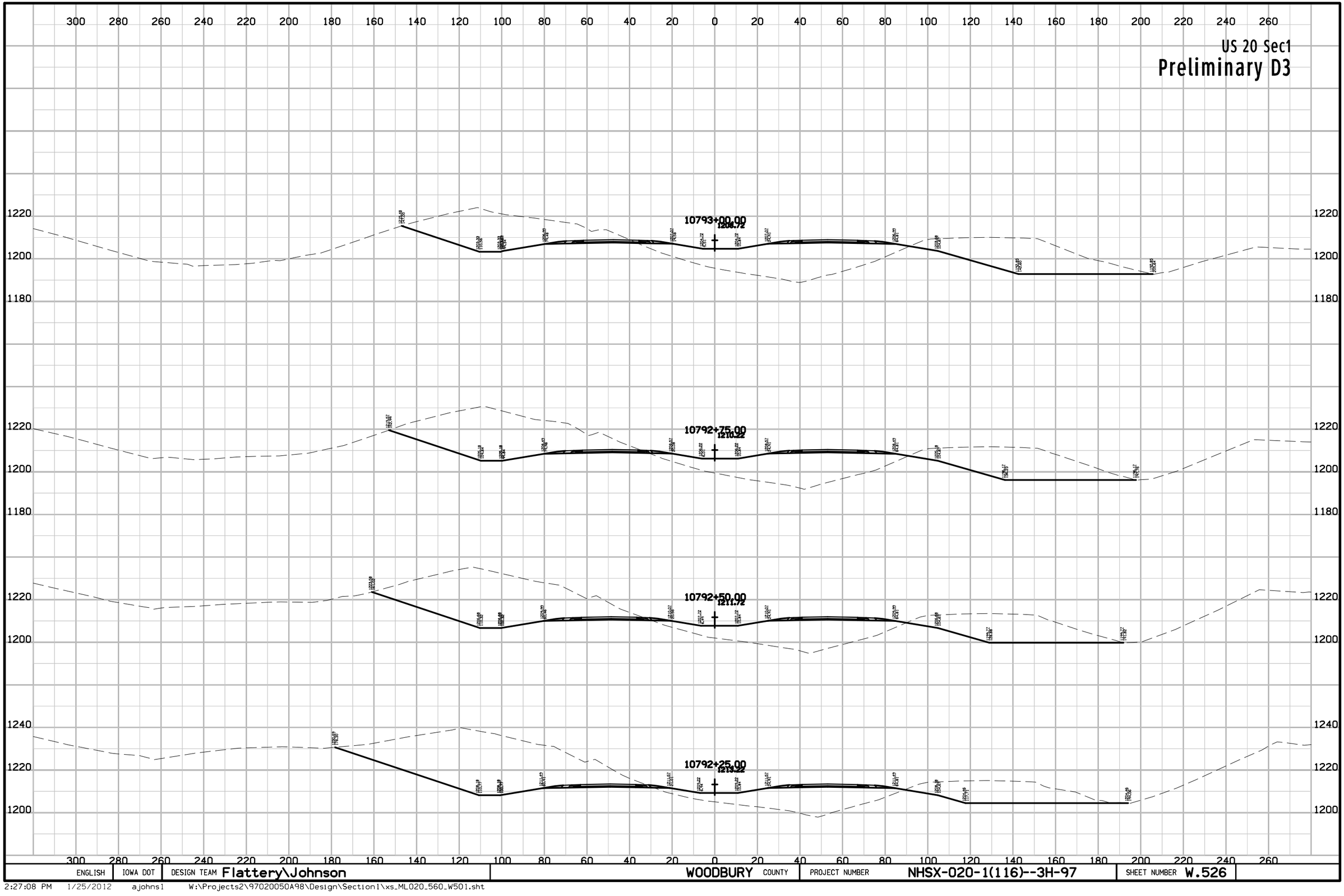


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.525

2:27:08 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

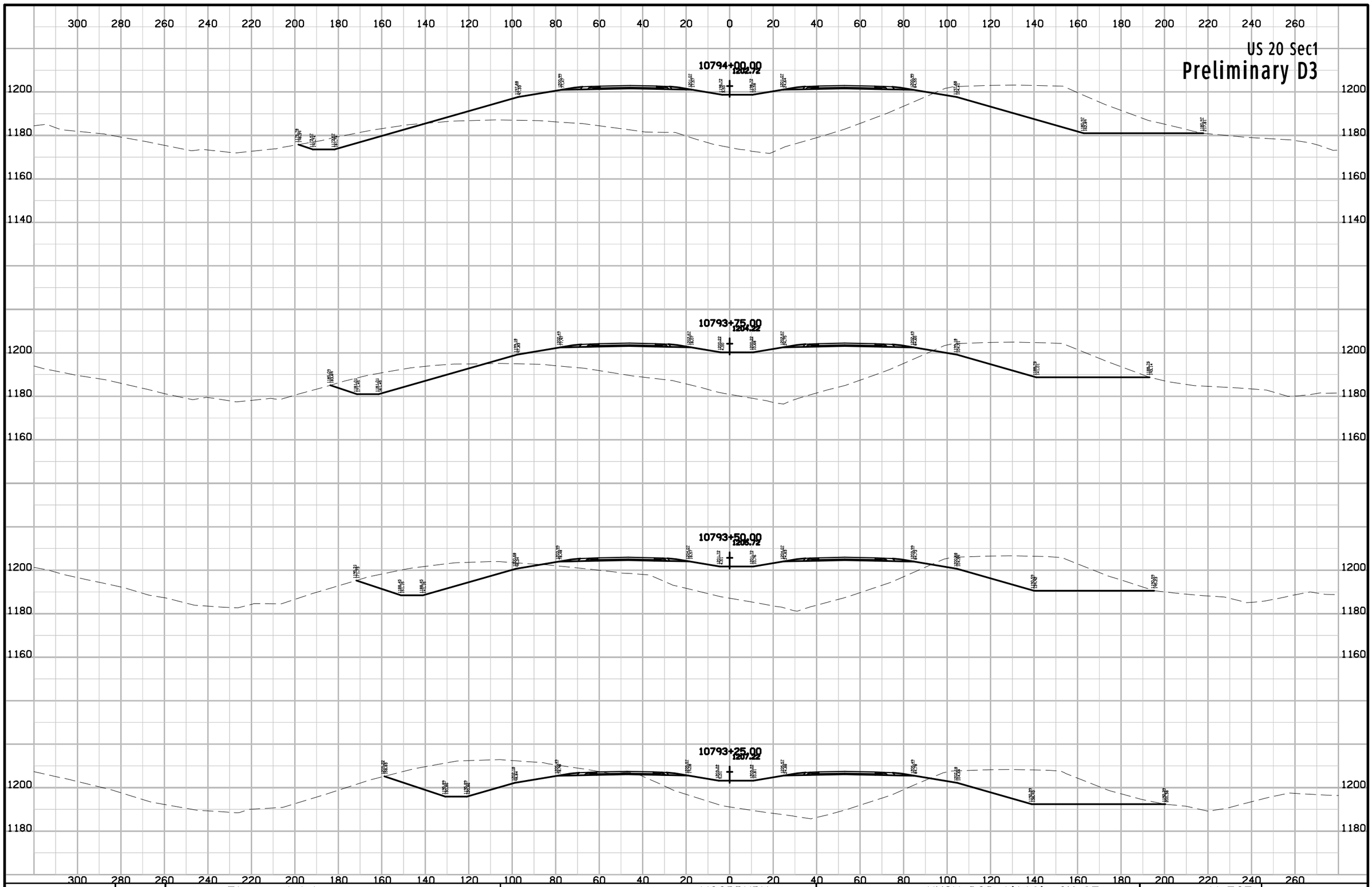


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.526

2:27:08 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

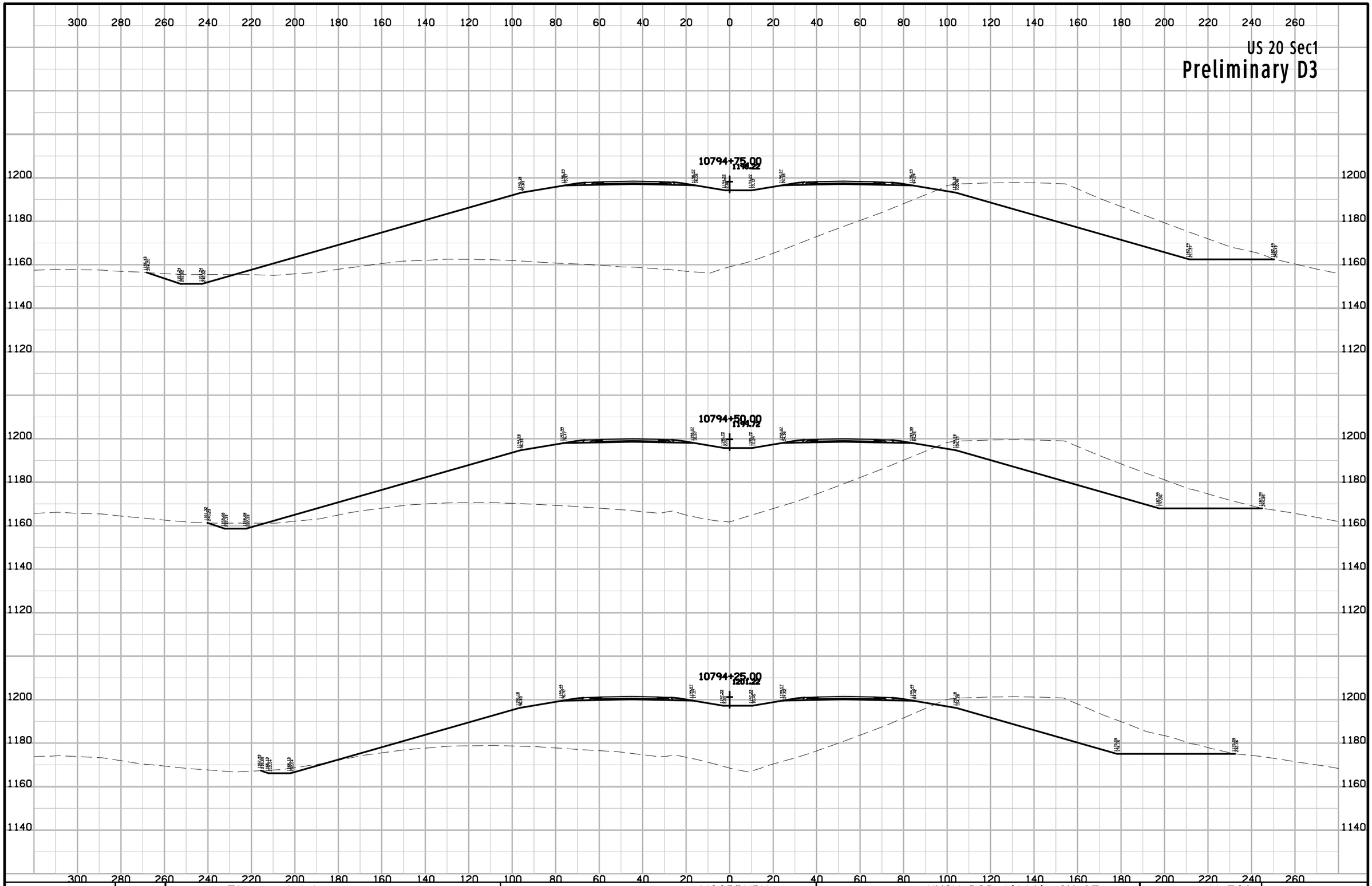


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.527

2:27:09 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

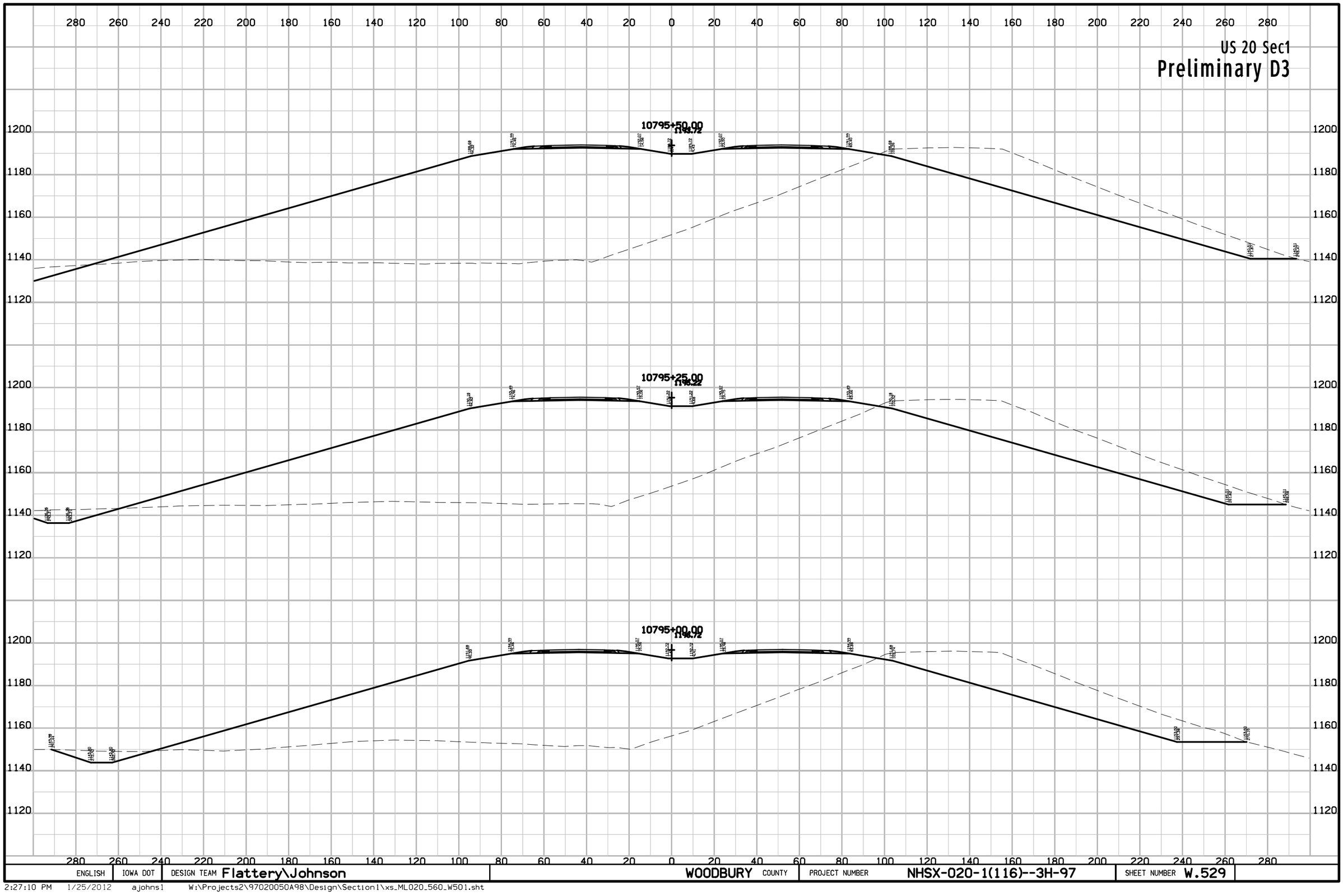


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.528

2:27:09 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

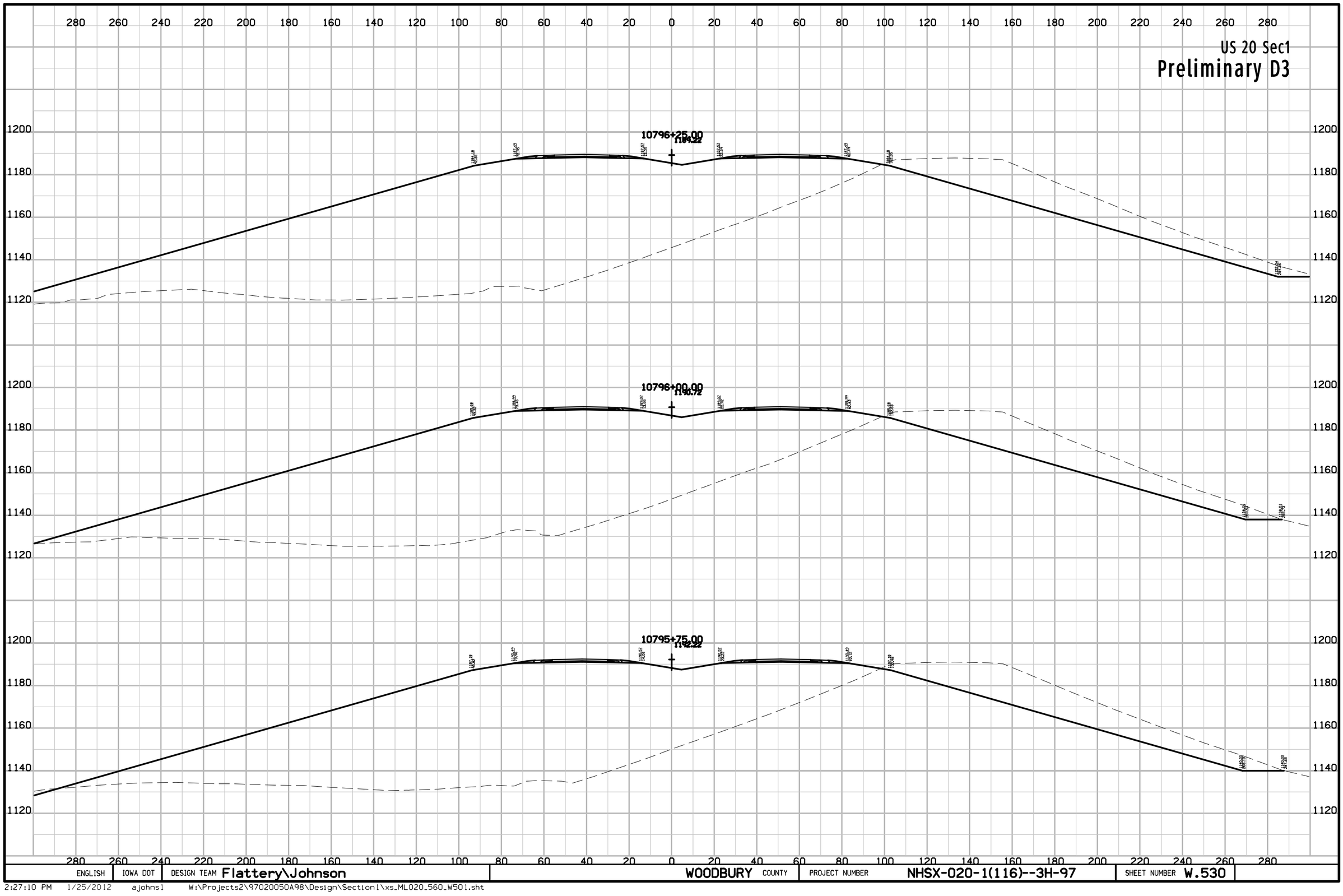


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.529

2:27:10 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

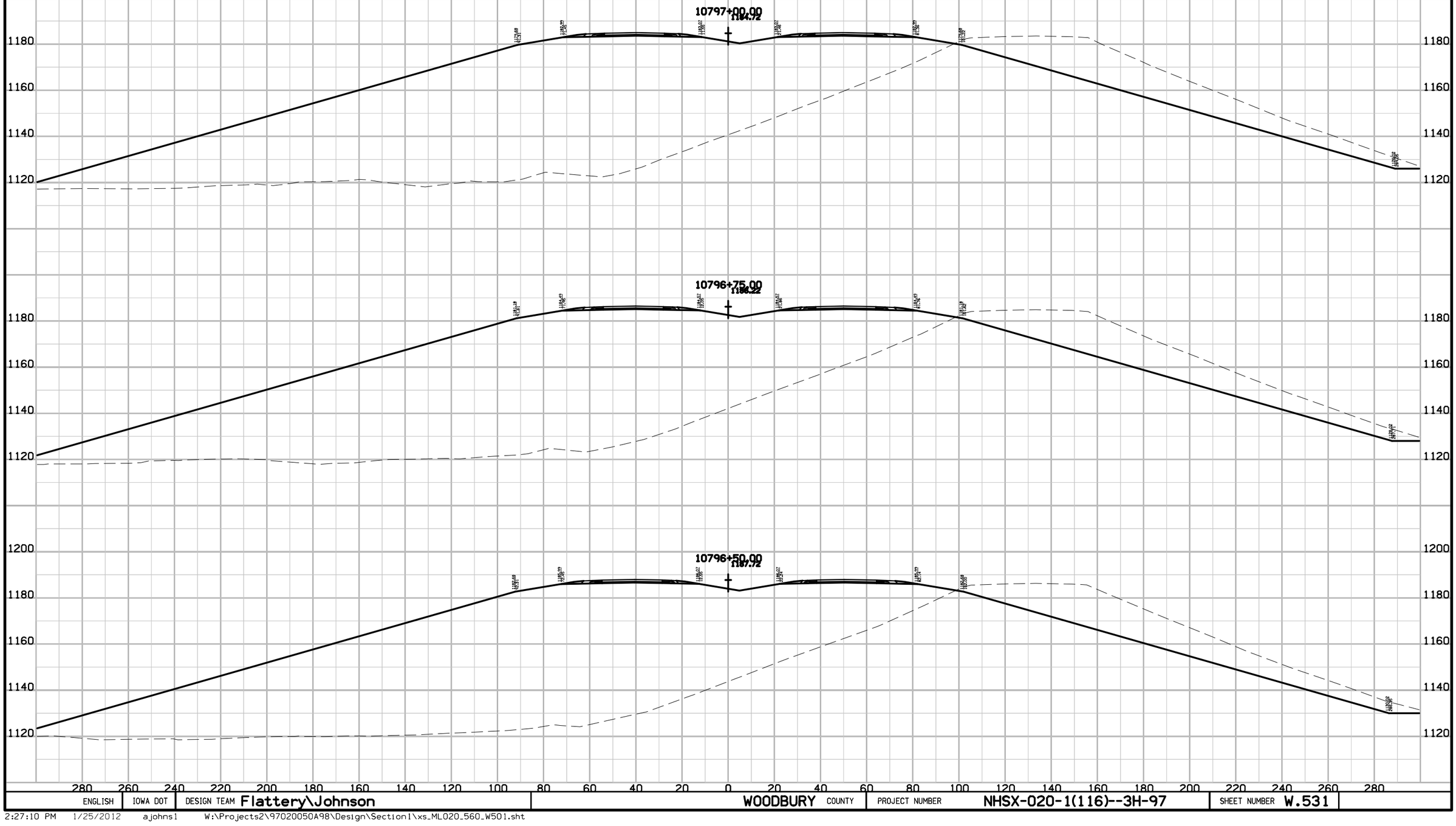


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.530	

2:27:10 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

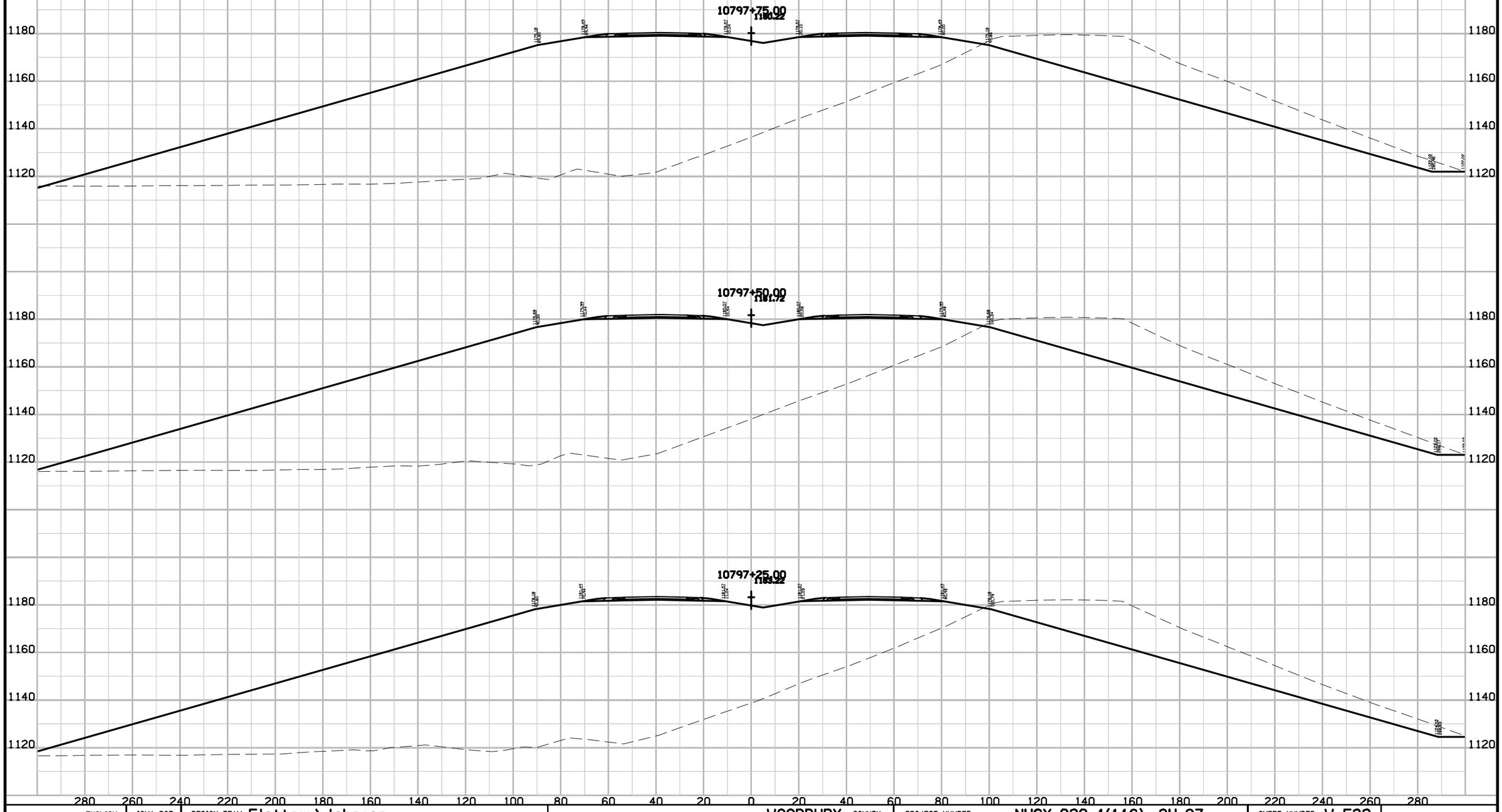


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.531

2:27:10 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

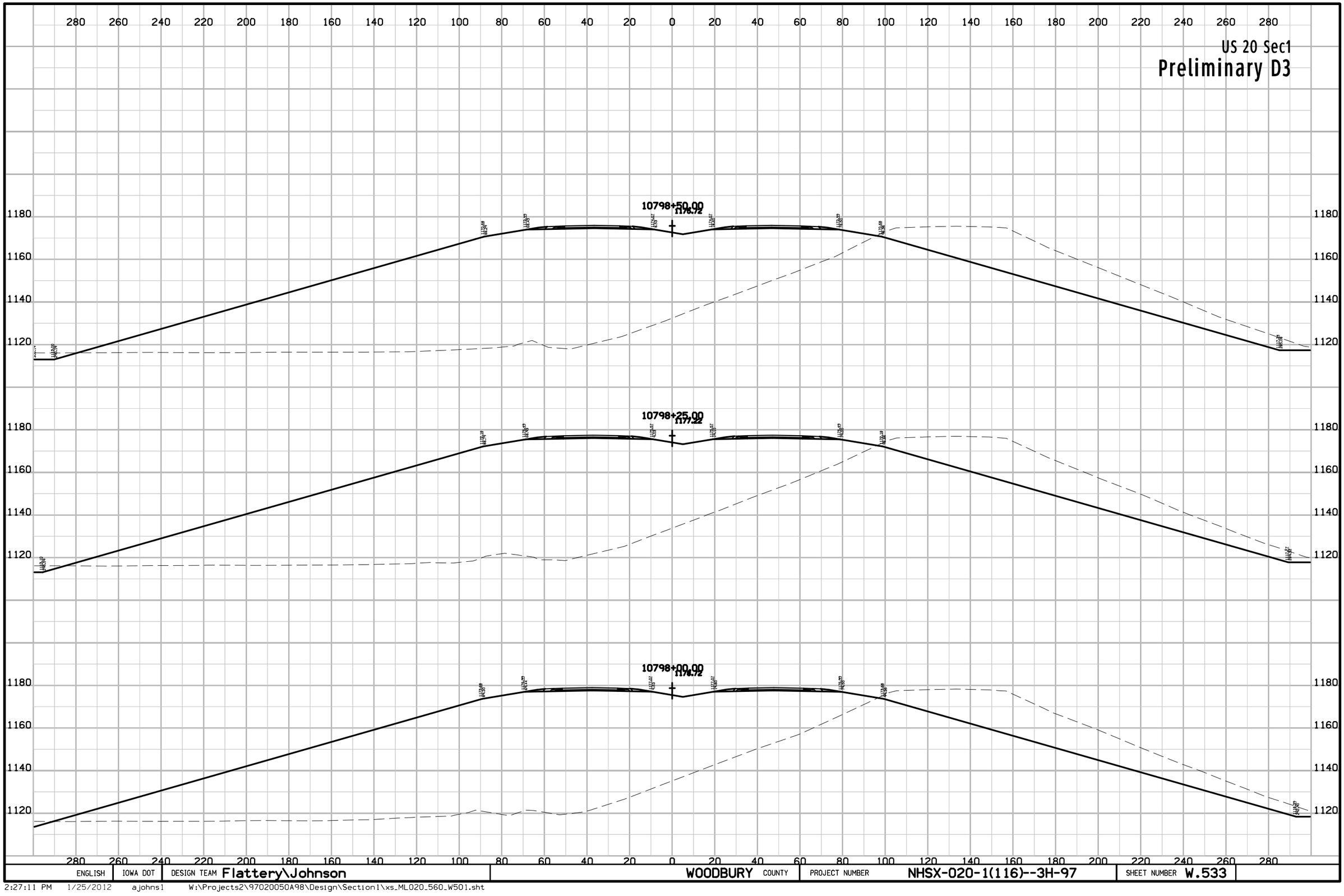


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.532

2:27:11 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

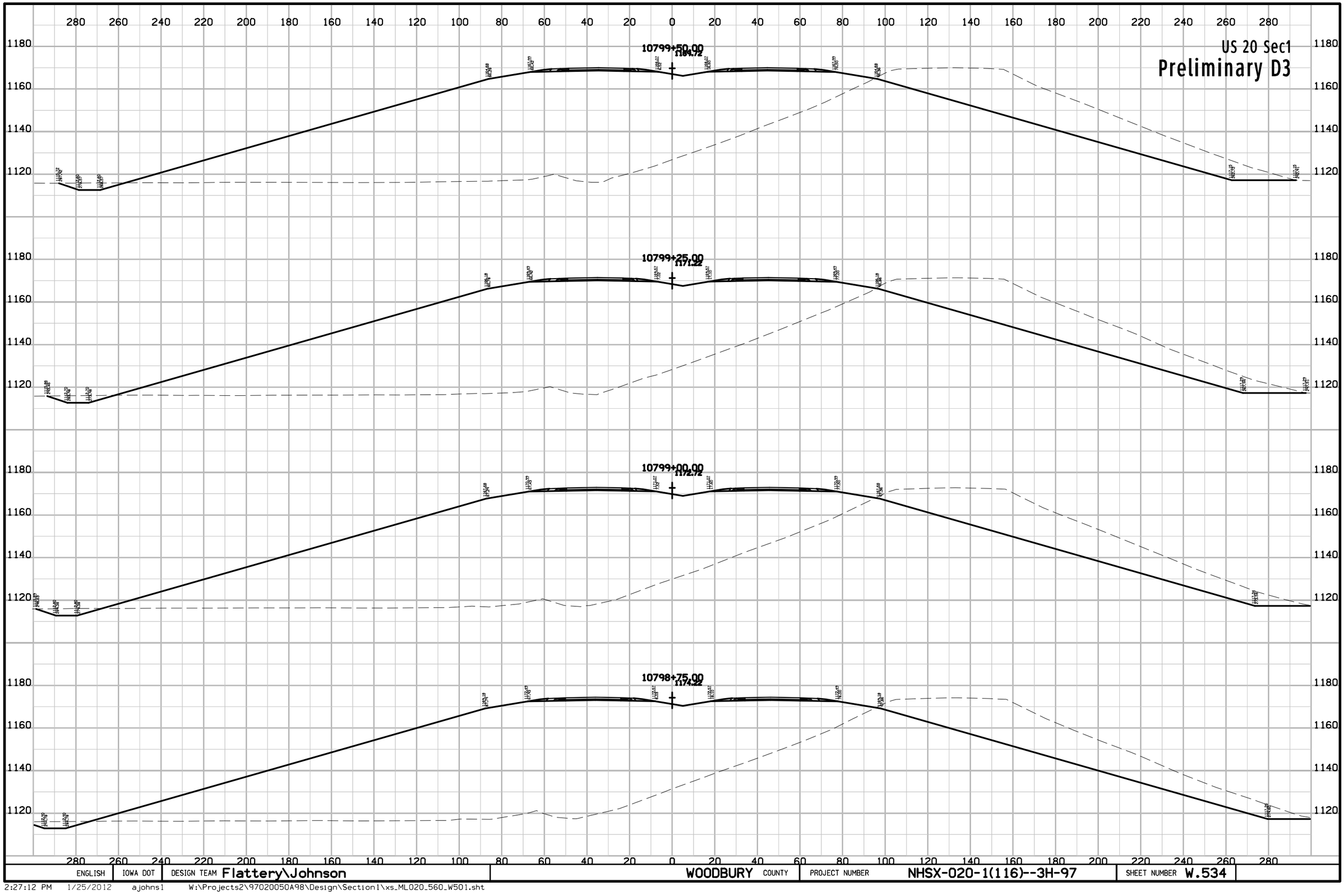


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.533

2:27:11 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

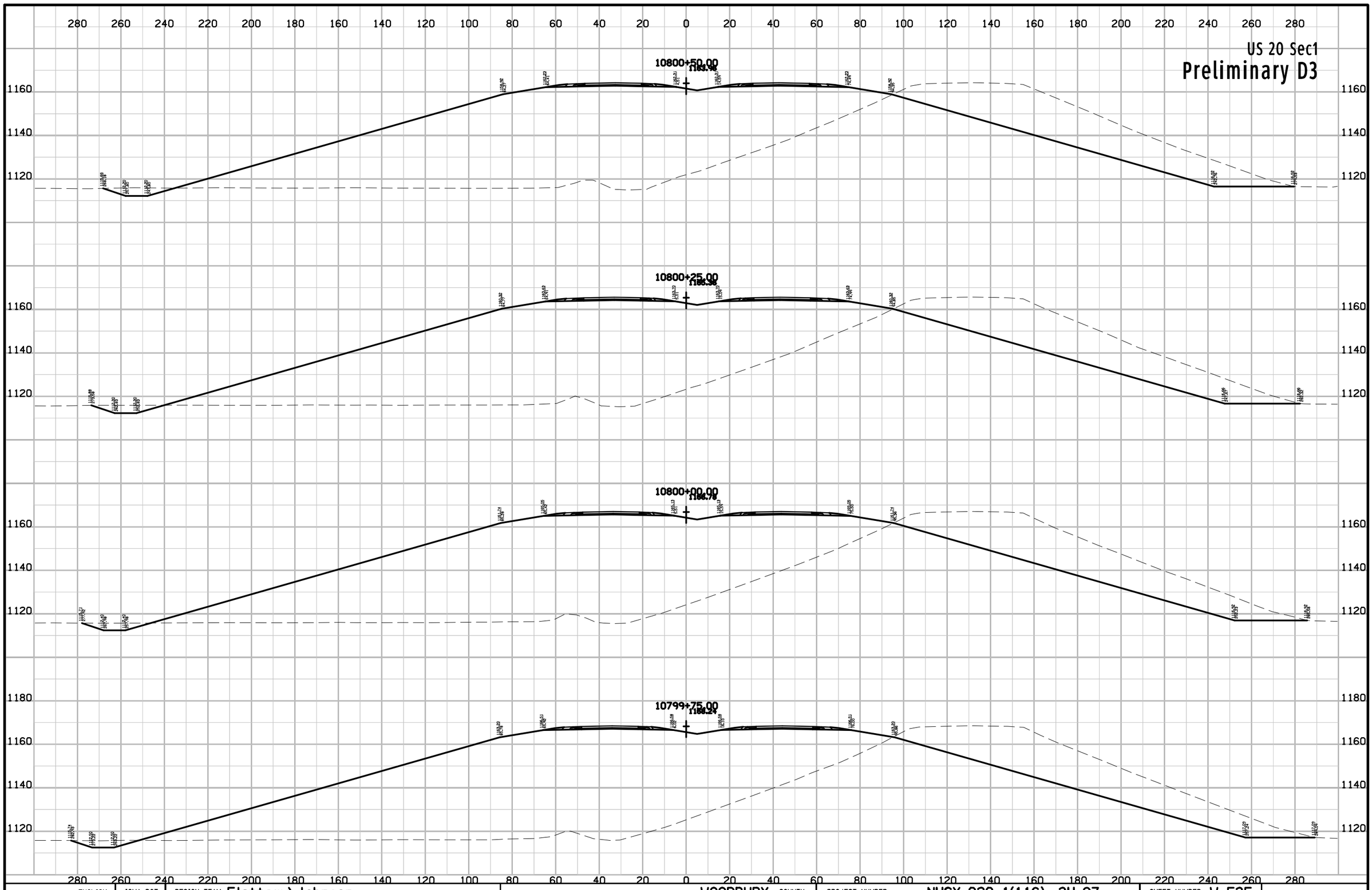


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.534

2:27:12 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

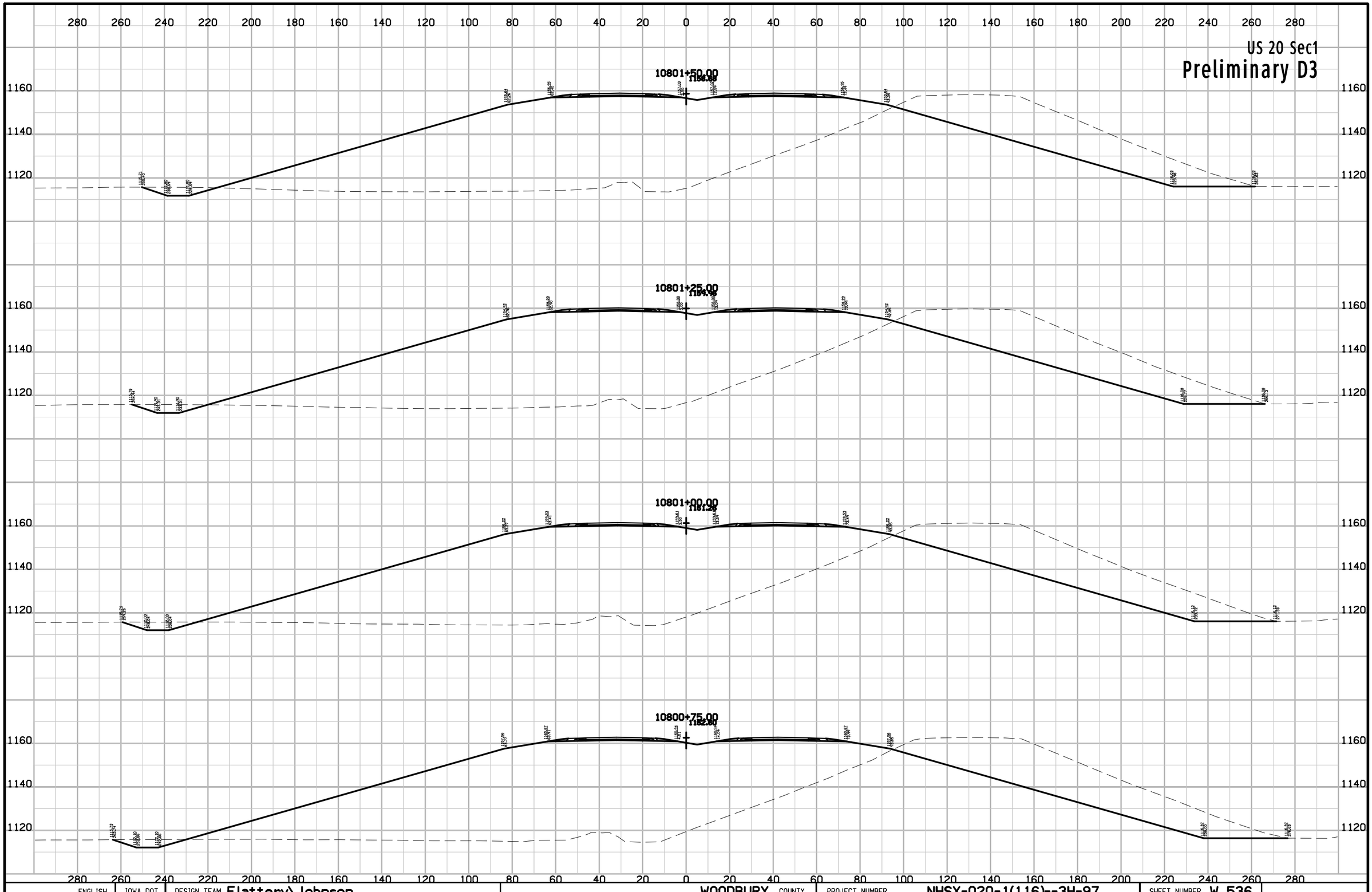


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.535

2:27:12 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

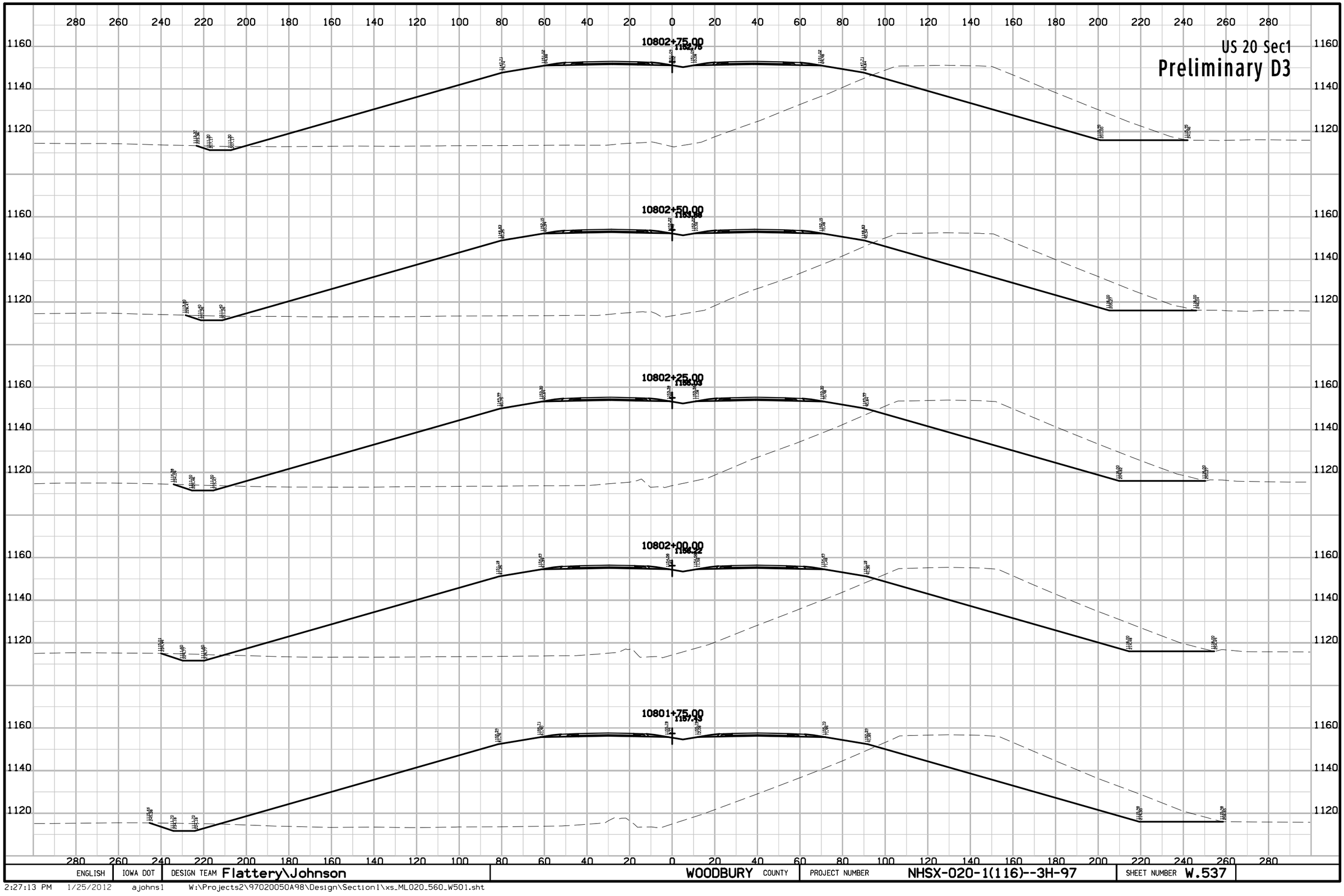


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.536	

2:27:12 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

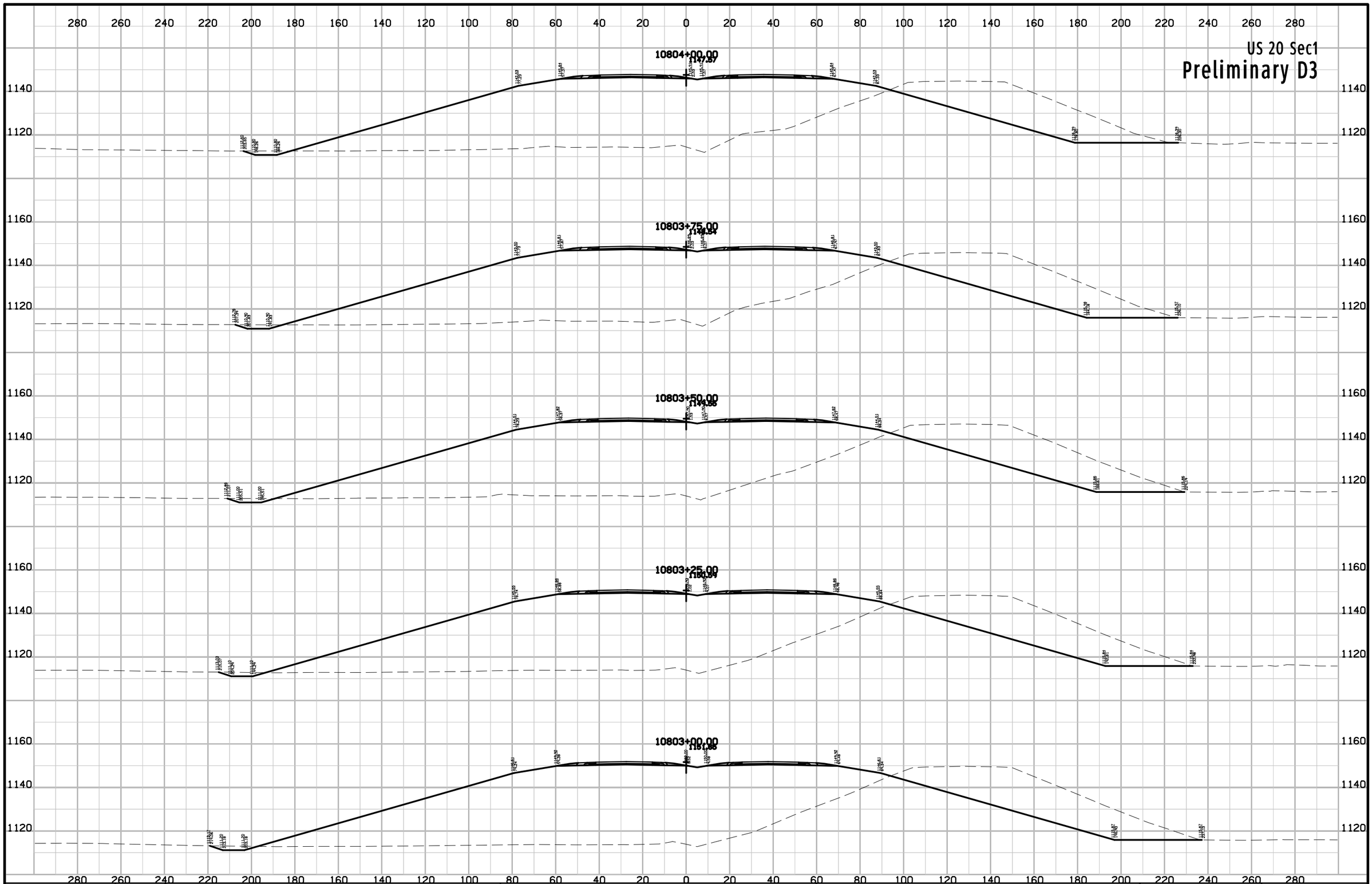


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.537	

2:27:13 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

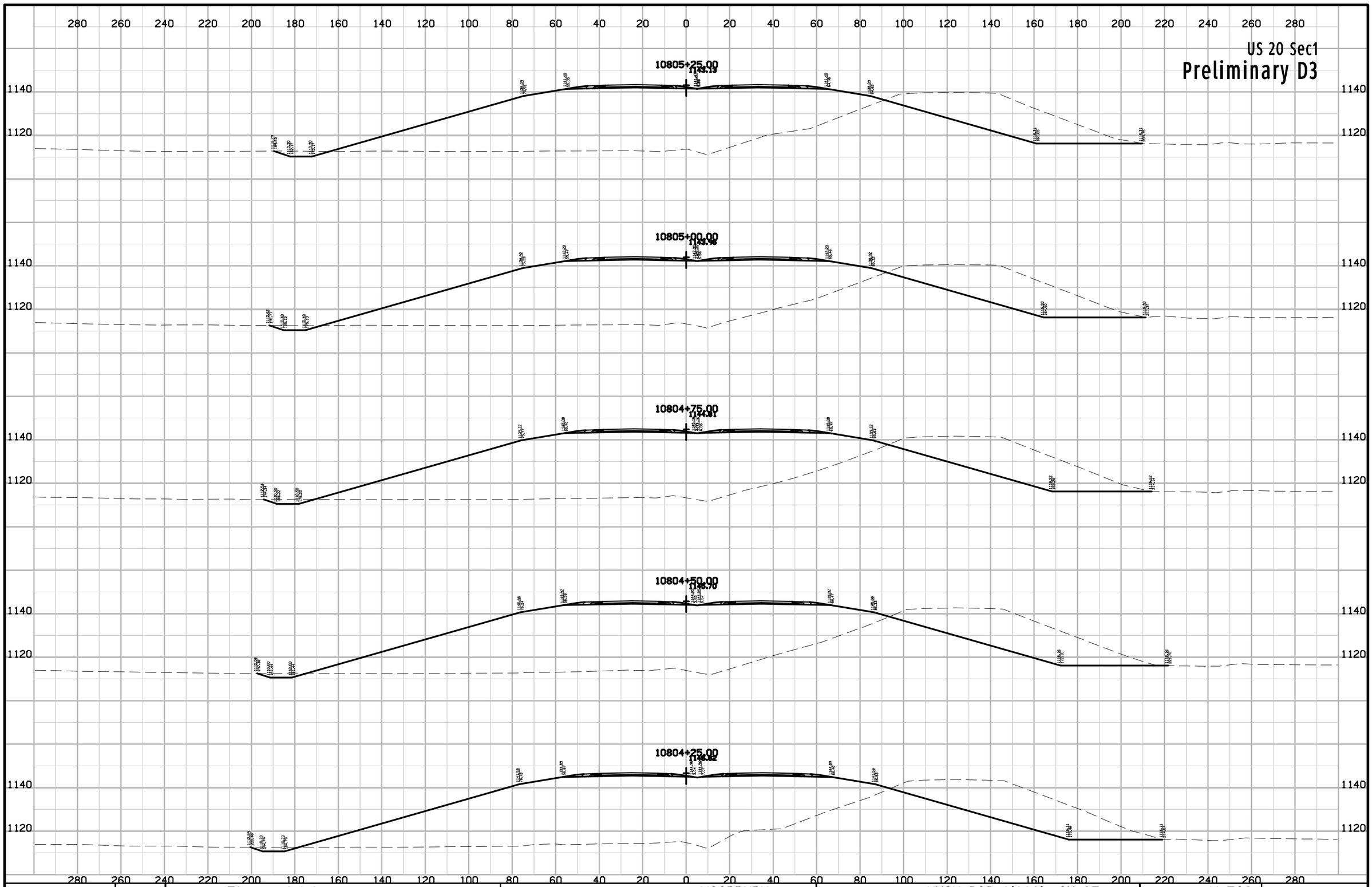


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.538

2:27:13 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

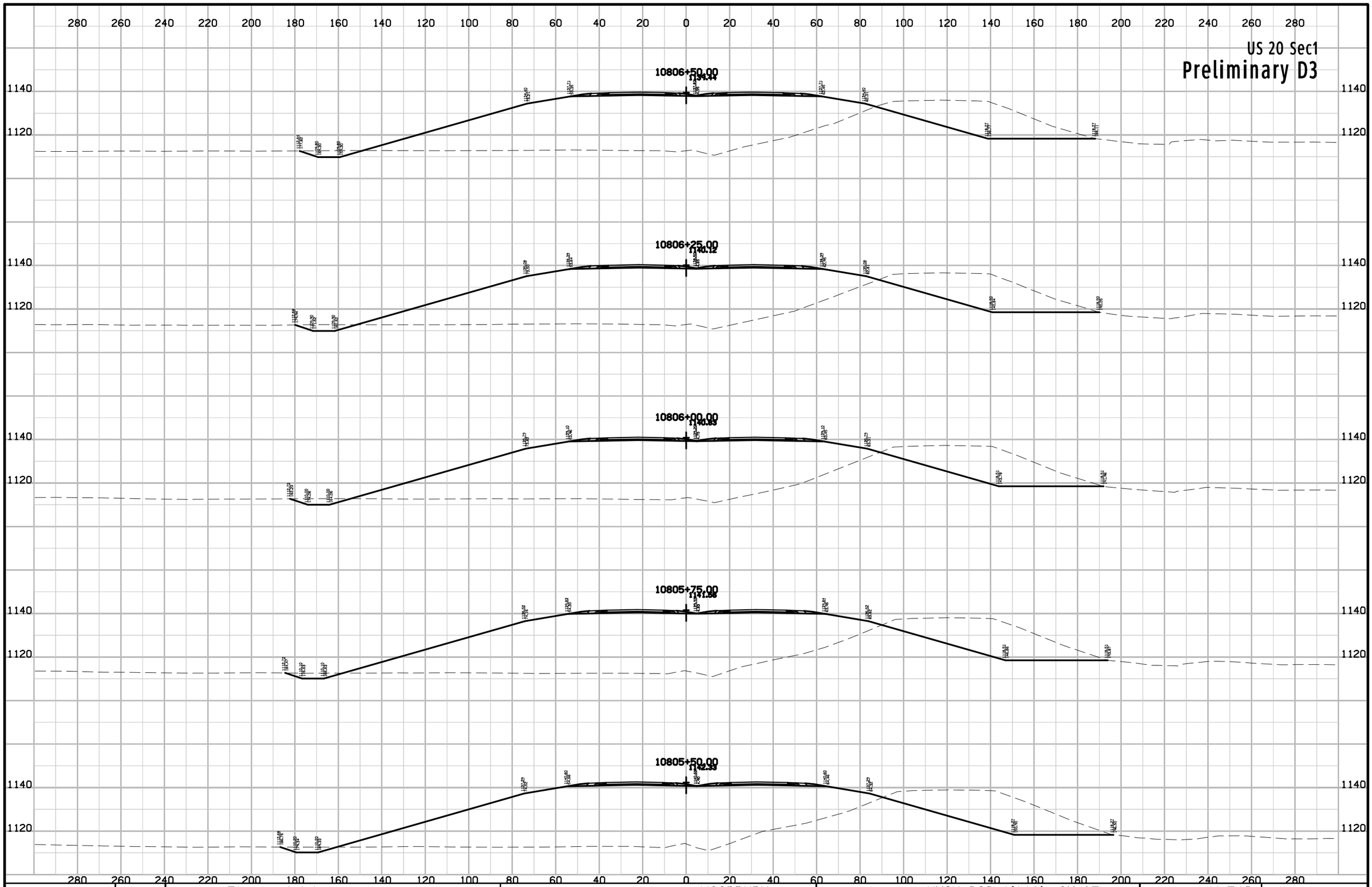
Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.539

US 20 Sec1

Preliminary D3

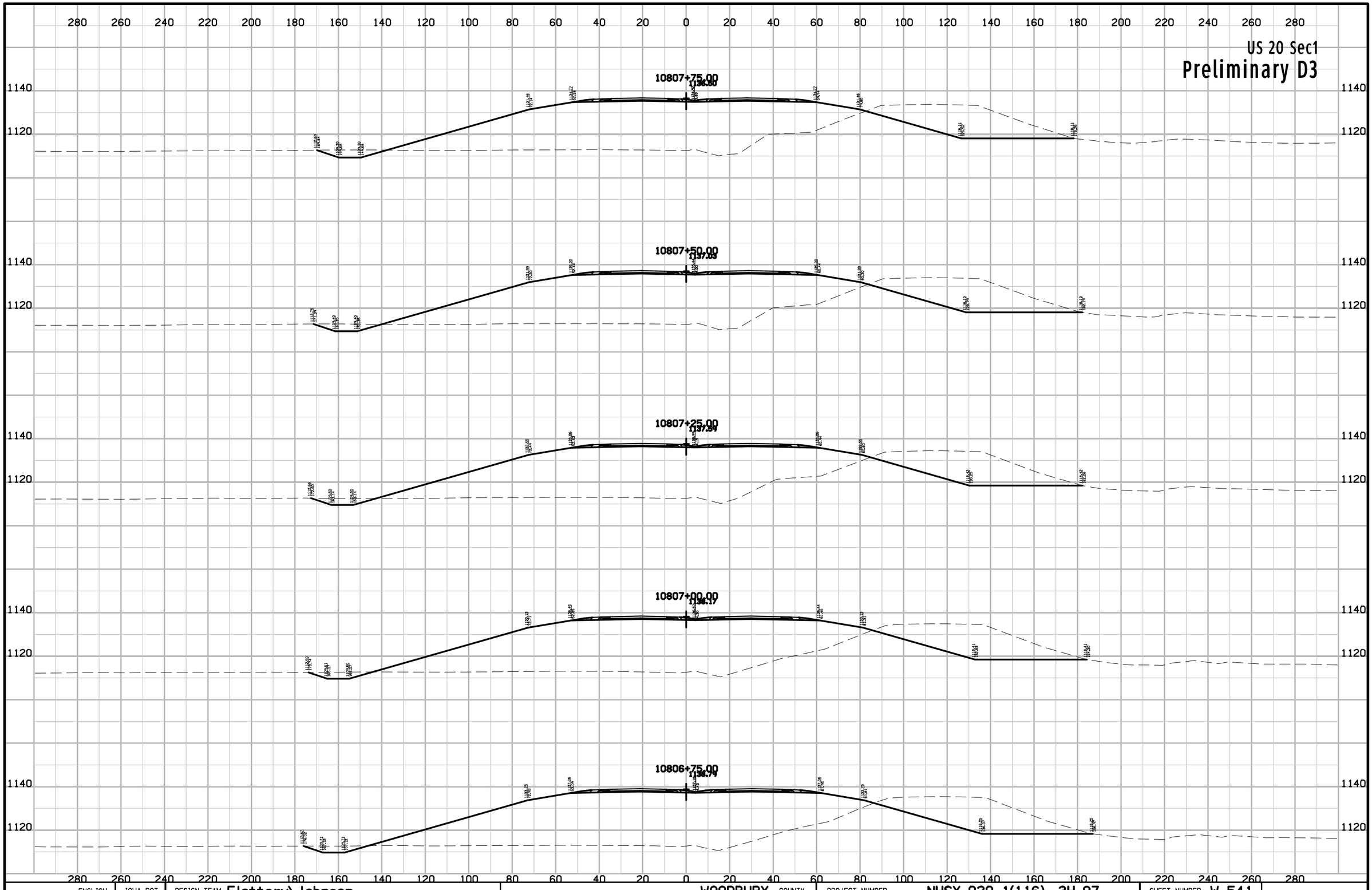


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER W.540	

2:27:14 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

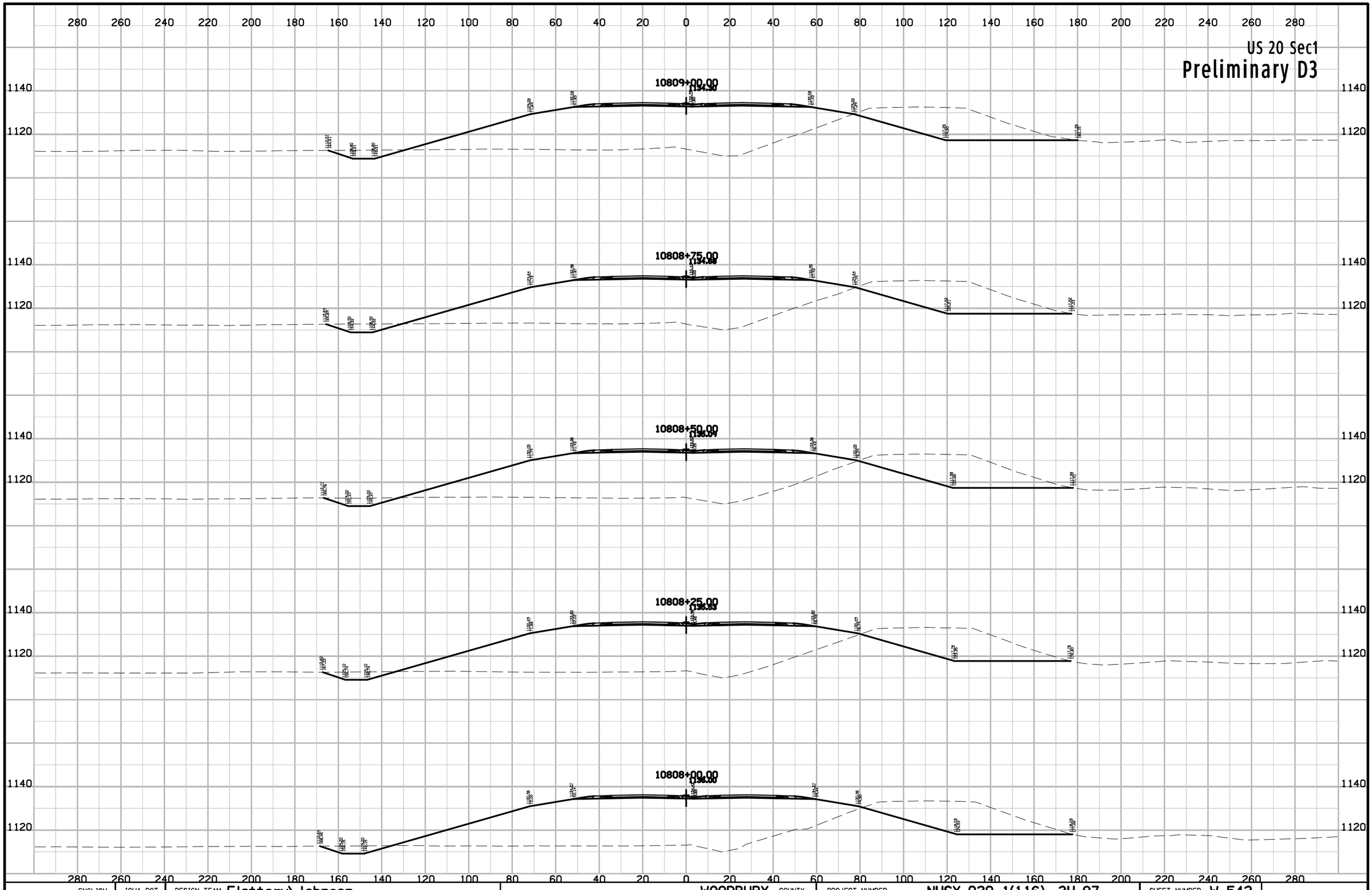


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.541

2:27:14 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.542

2:27:15 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

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

10810+25.00

1132.00

10810+00.00

1133.09

10809+75.00

1133.36

10809+50.00

1133.87

10809+25.00

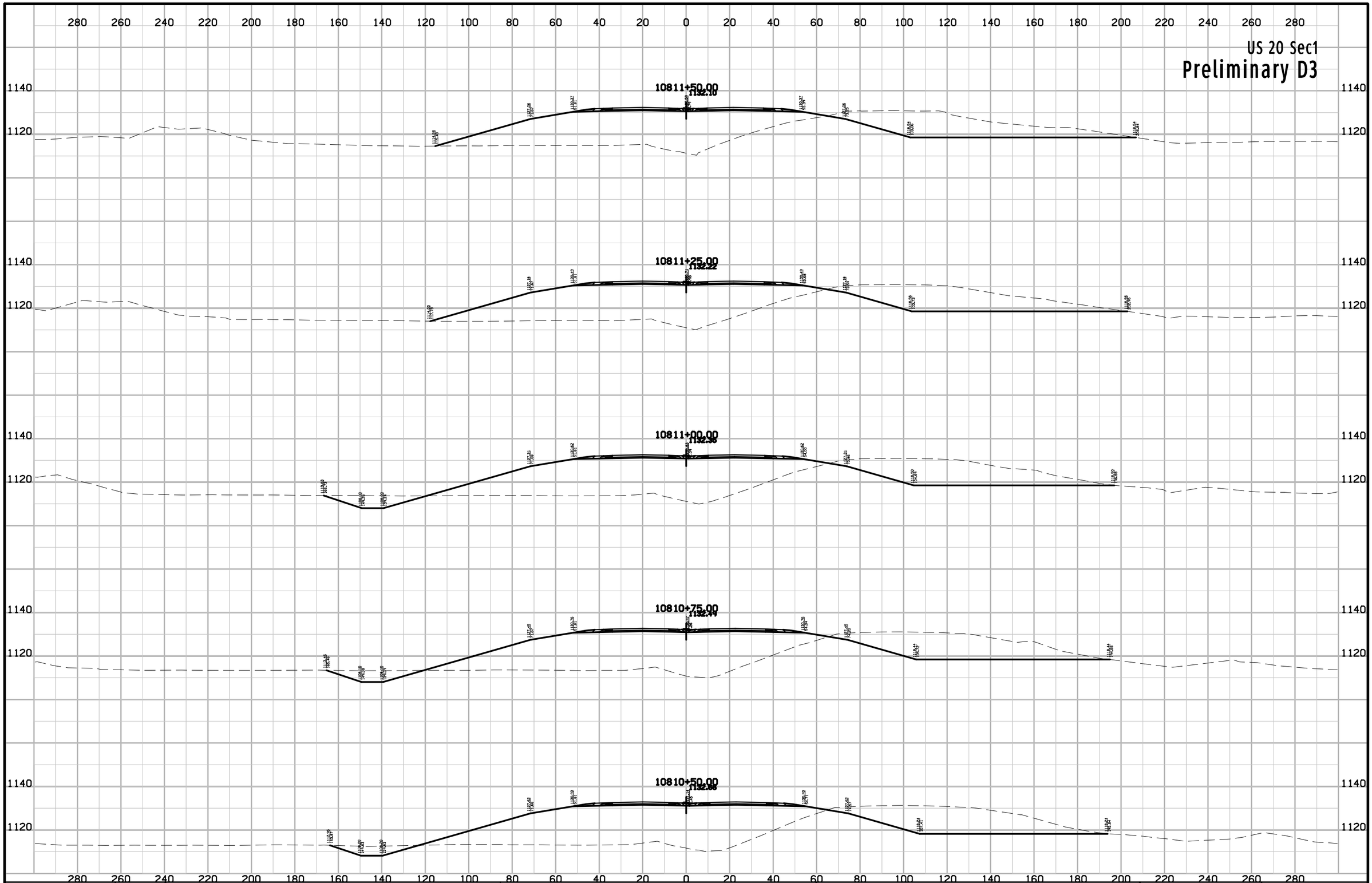
1133.36

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.543

2:27:15 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

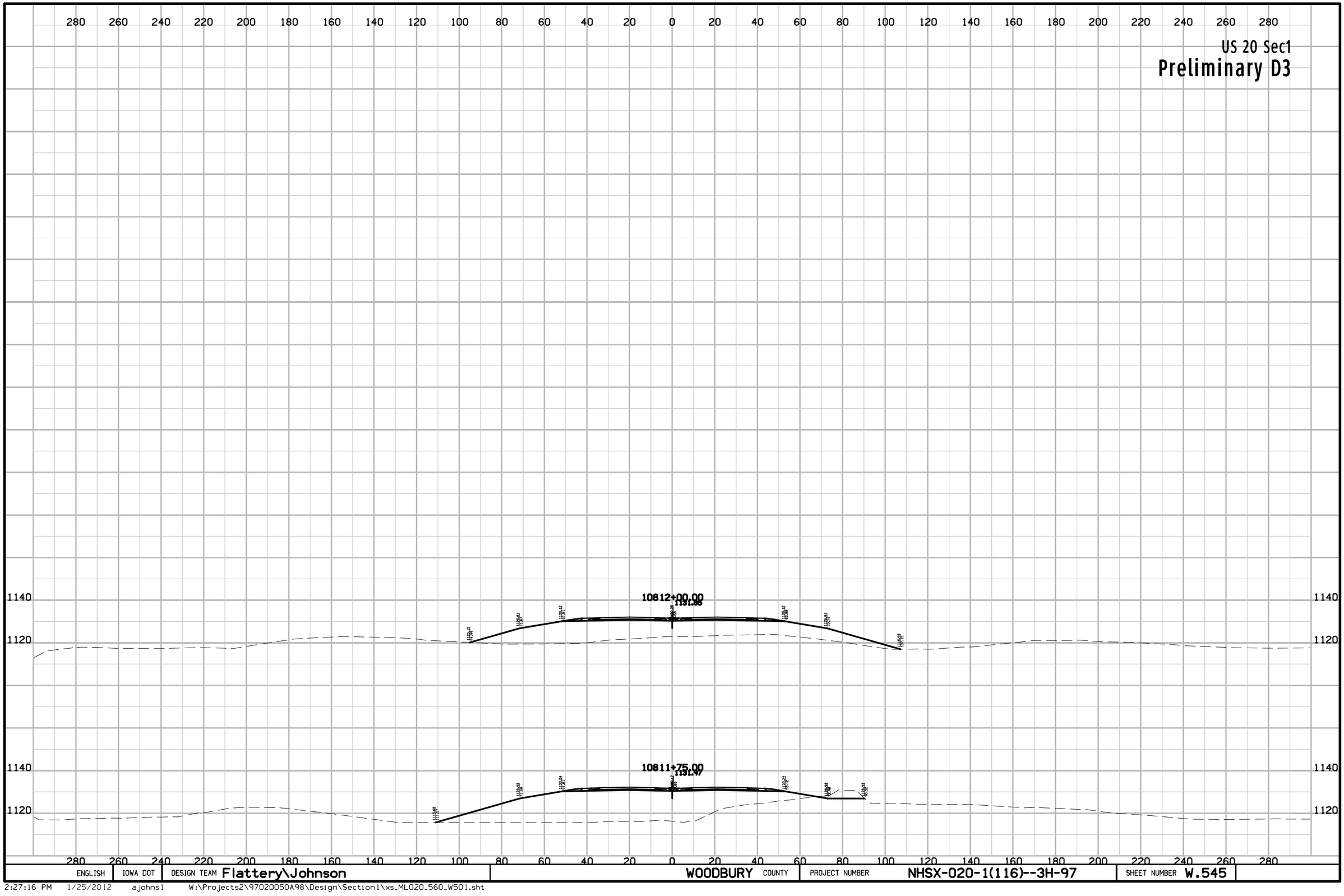


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.544

2:27:16 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

US 20 Sec1

Preliminary D3

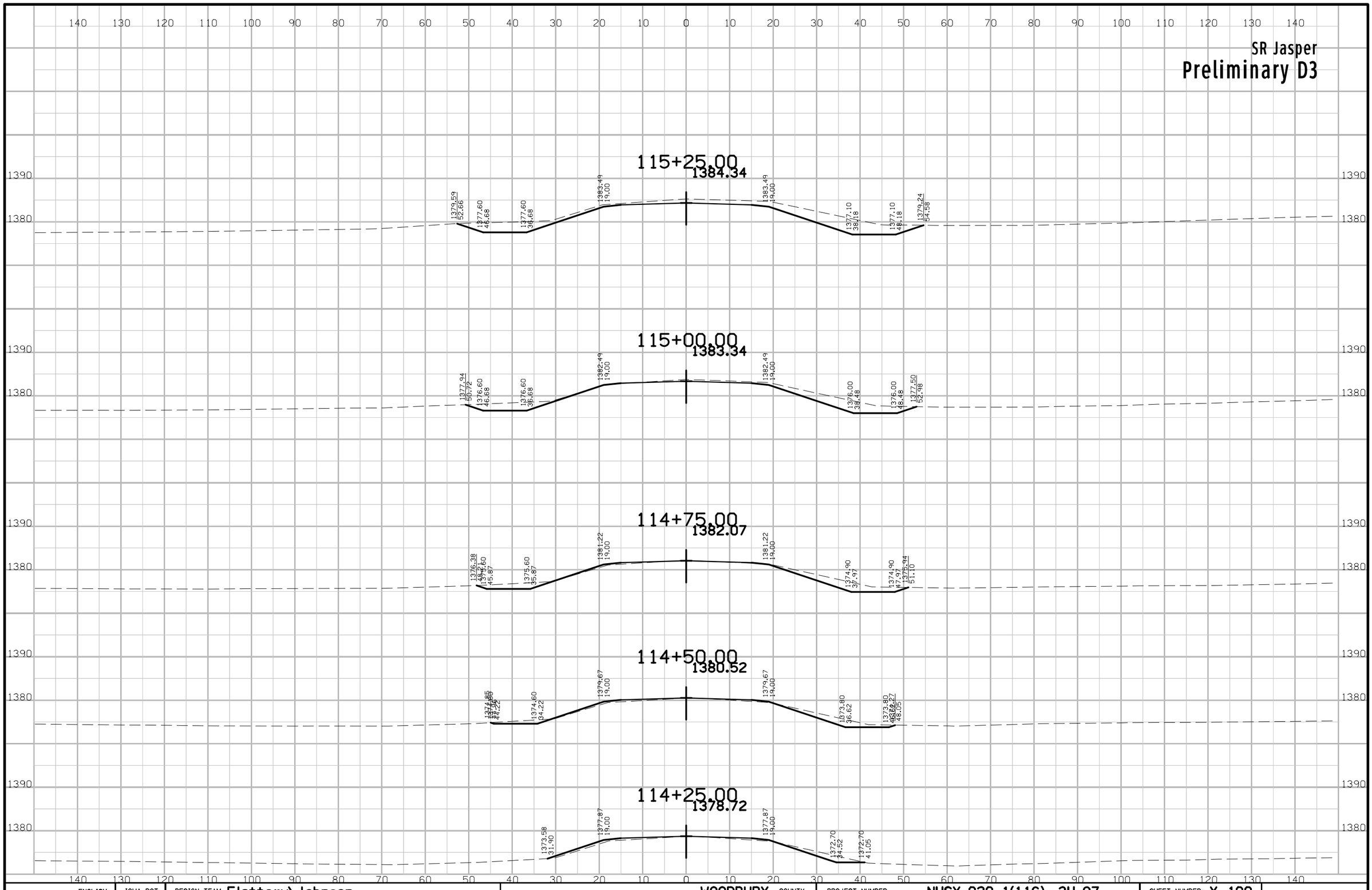


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER W.545

2:27:16 PM 1/25/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_ML020_560_W501.sht

SR Jasper

Preliminary D3

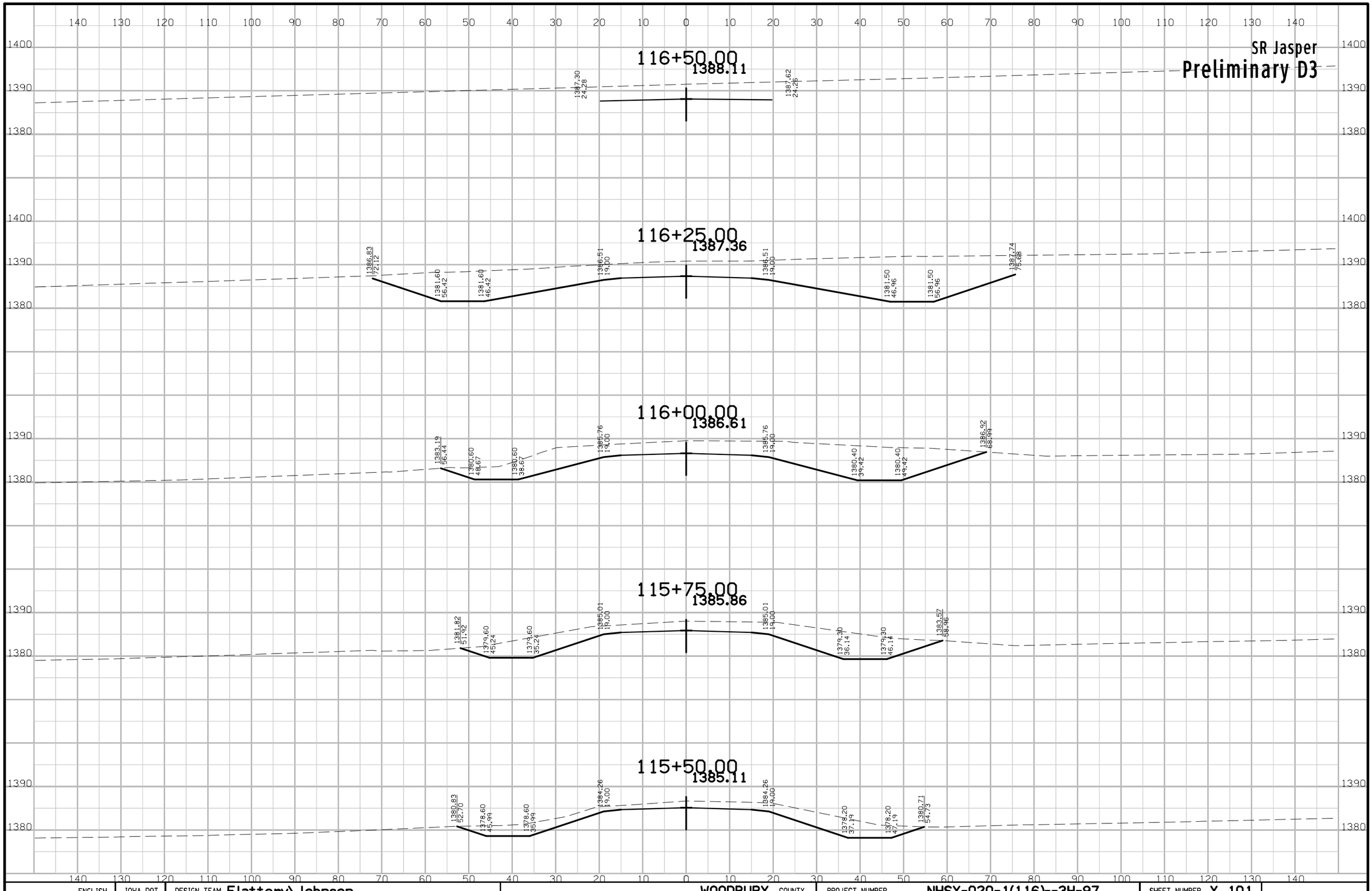


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.100

7:36:31 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jasper_280.sht

SR Jasper

Preliminary D3

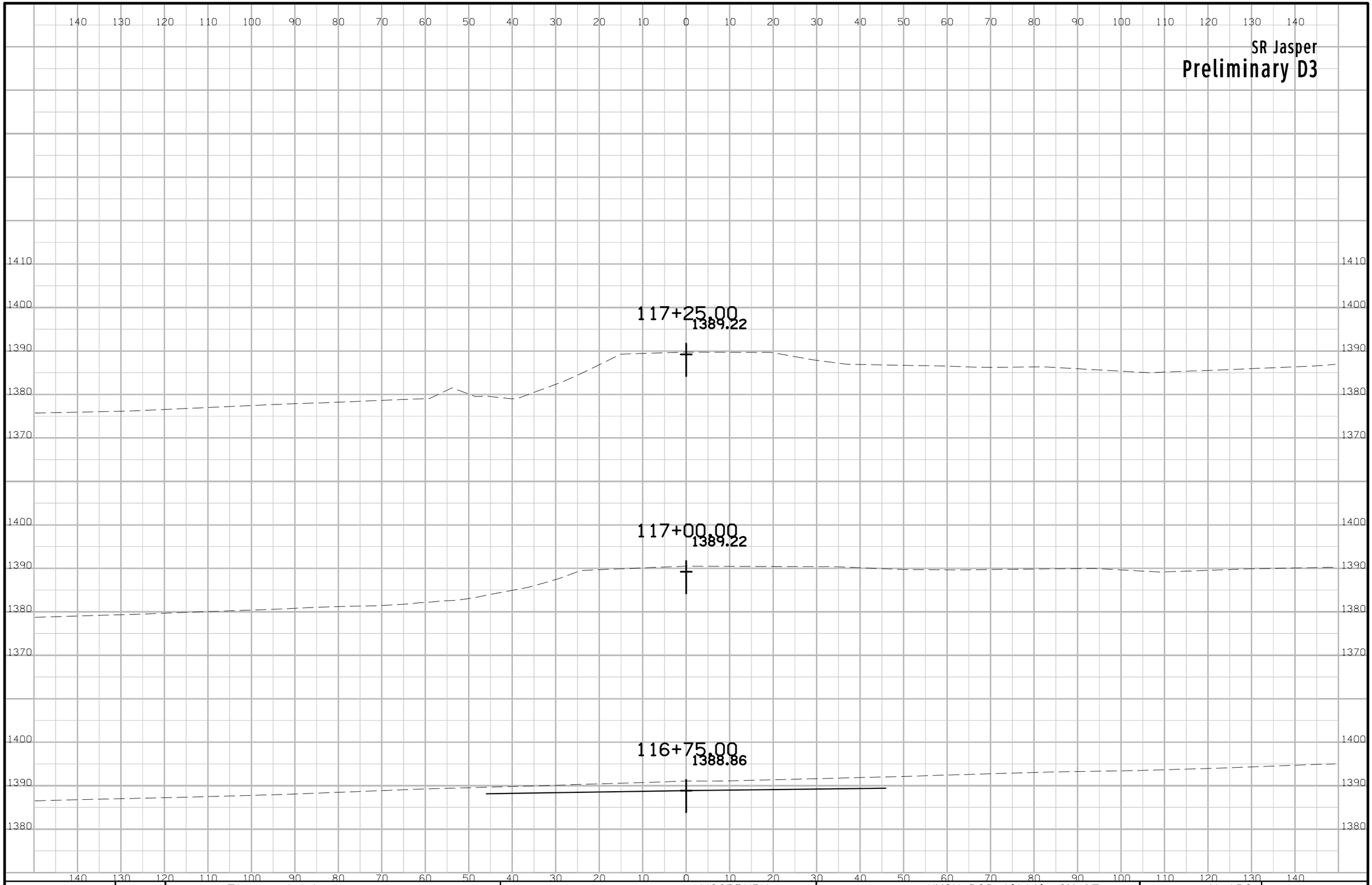


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.101

7:36:32 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jasper_280.sht

SR Jasper

Preliminary D3

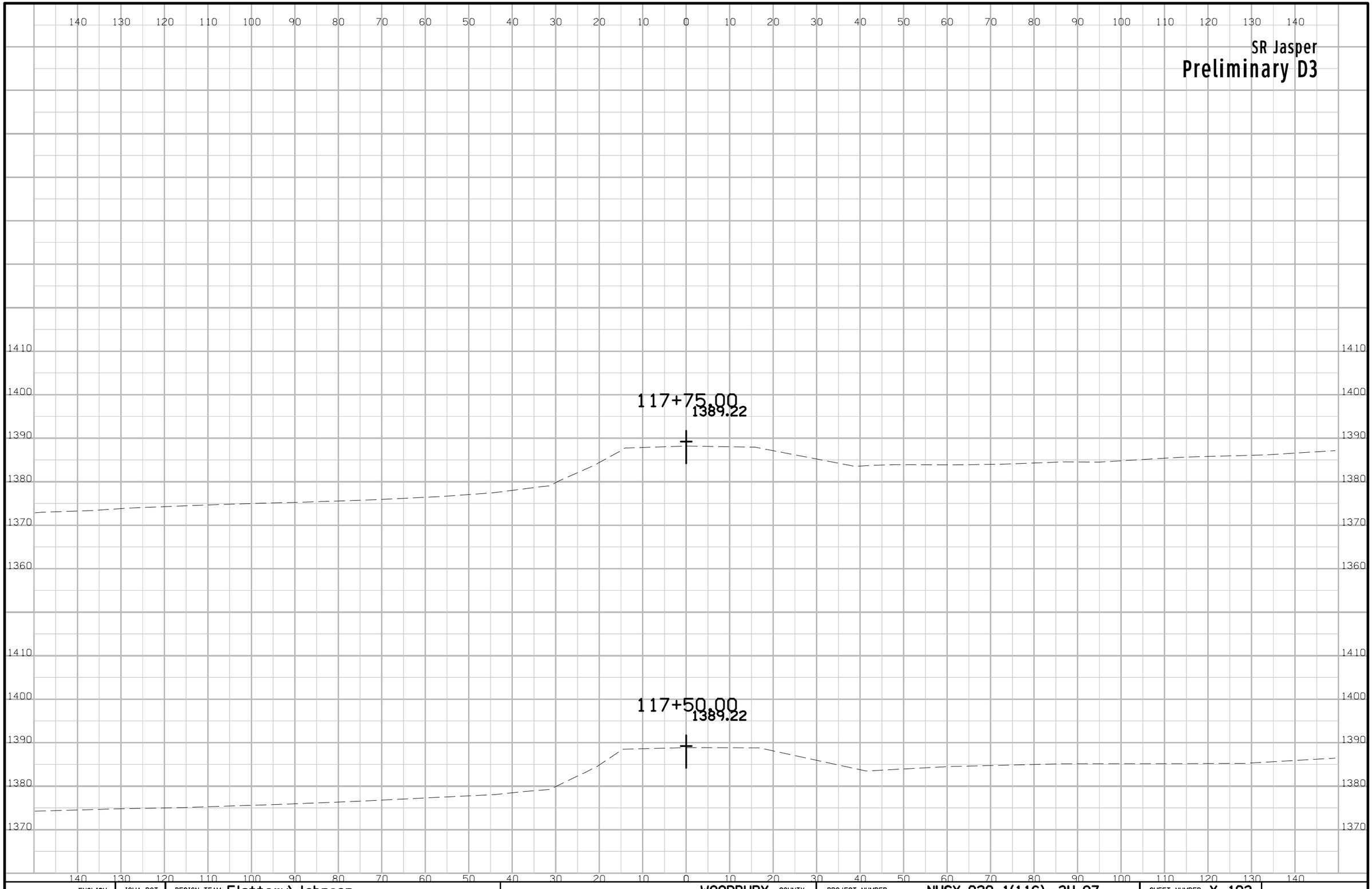


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.102

7:36:32 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jasper_280.sht

SR Jasper

Preliminary D3

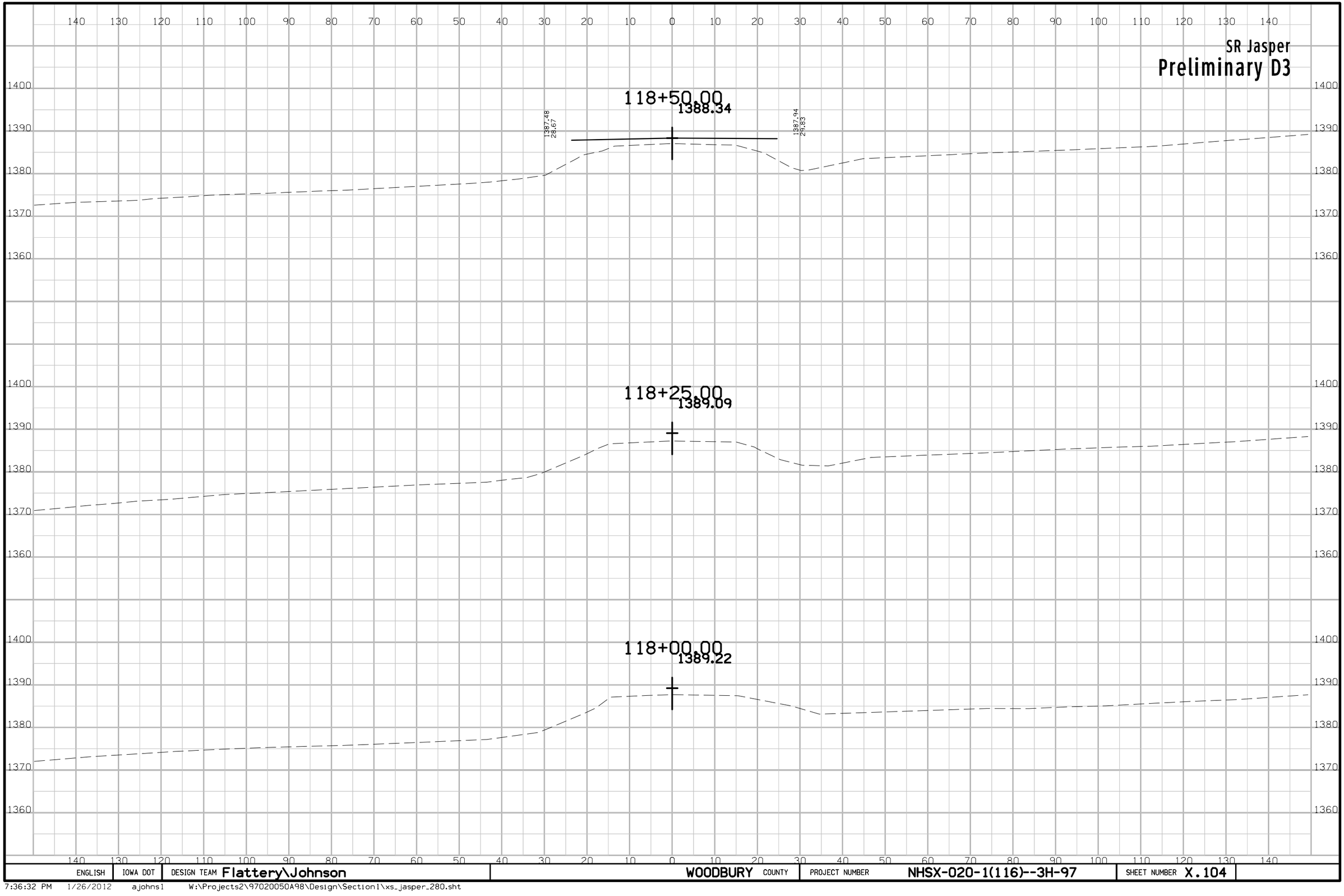


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.103

7:36:32 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jasper_280.sht

SR Jasper

Preliminary D3

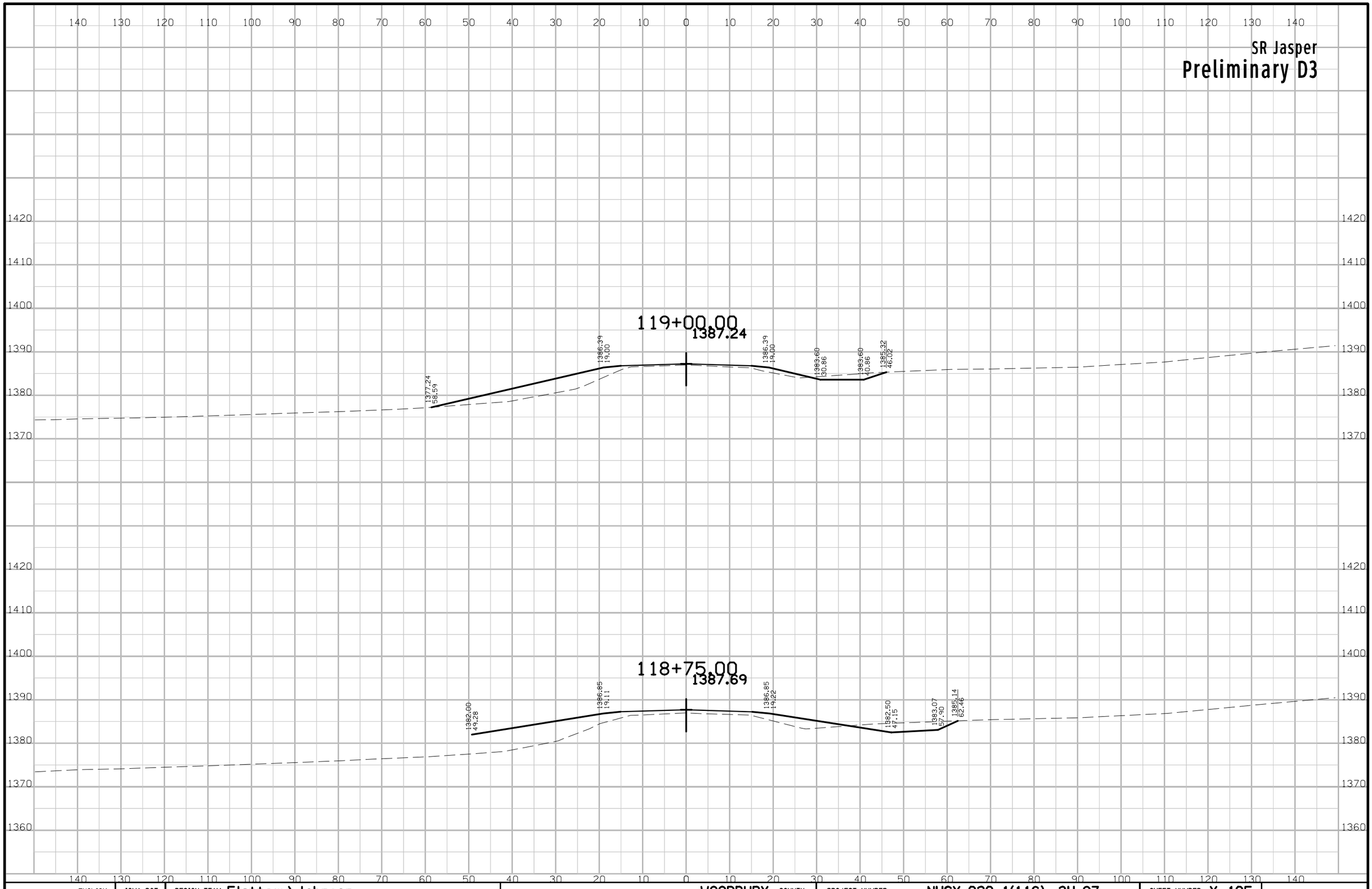


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.104

7:36:32 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jasper_280.sht

SR Jasper

Preliminary D3

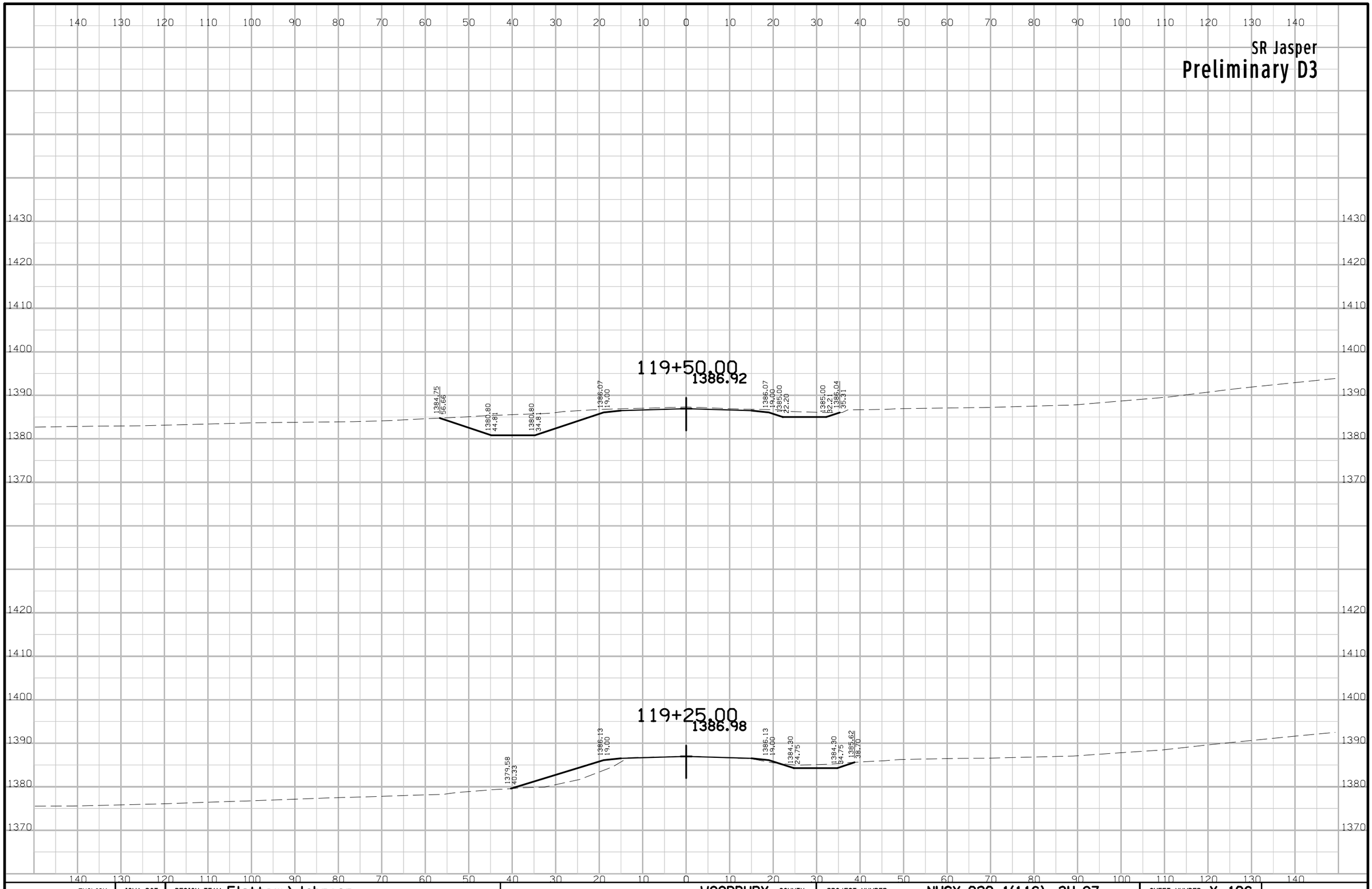


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.105

7:36:33 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jasper_280.sht

SR Jasper

Preliminary D3

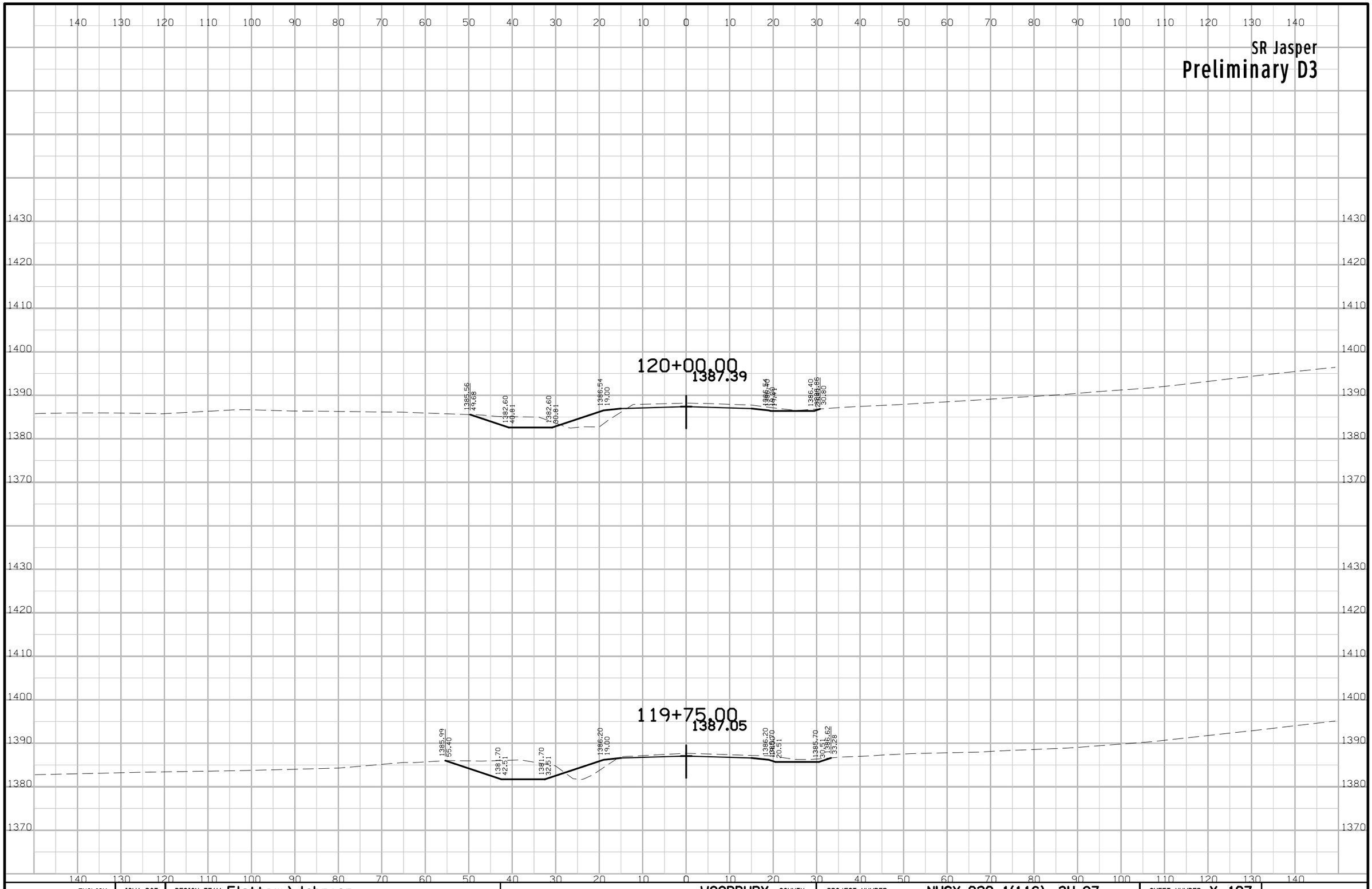


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.106

7:36:33 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jasper_280.sht

SR Jasper

Preliminary D3



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

7:36:33 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jasper_280.sht

SR Jasper

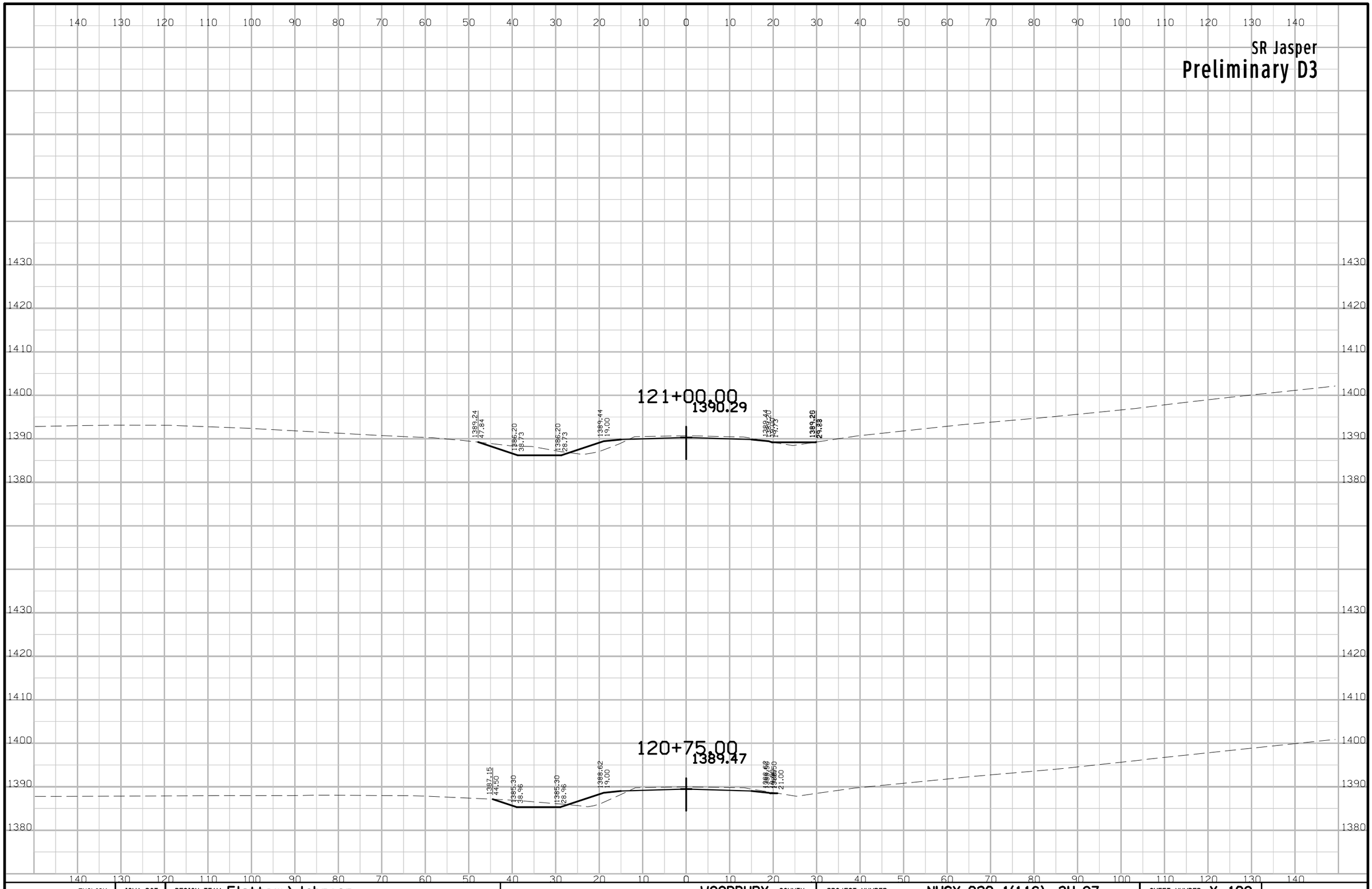
Preliminary D3

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

7:36:33 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jasper_280.sht

SR Jasper

Preliminary D3



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

7:36:34 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jasper_280.sht

SR Jasper

Preliminary D3

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

1392.41
51.52
1388.00
38.28
1388.00
28.28
1391.09
19.00
1391.09
1390.60
20.48
1390.60
1391.51
33.21

121+25.00
1391.12

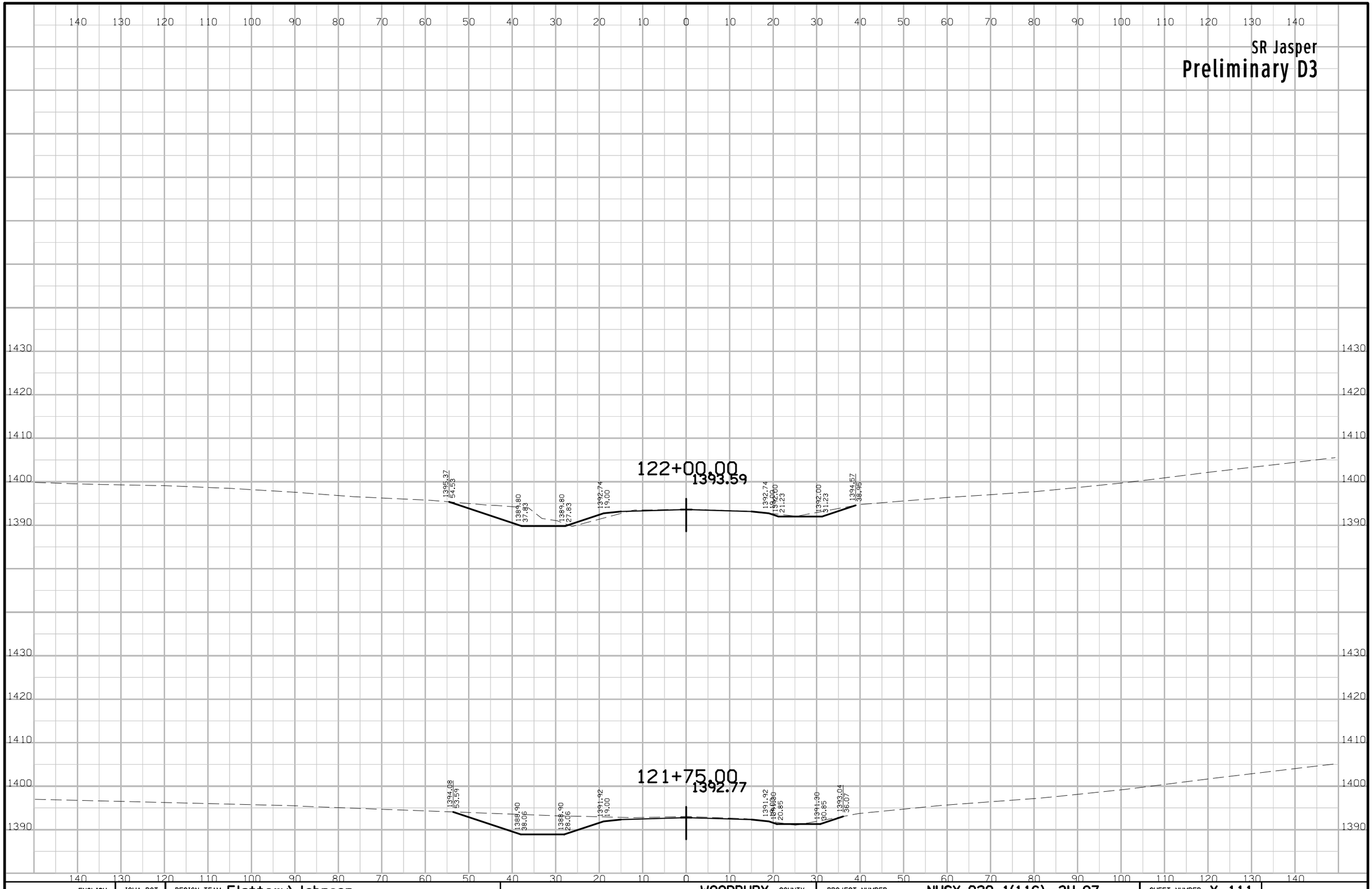
1390.56
48.88
1387.10
38.51
1387.10
28.51
1390.27
19.00
1390.27
1389.90
20.10
1389.90
1390.47
31.82

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

7:36:34 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jasper_280.sht

SR Jasper

Preliminary D3

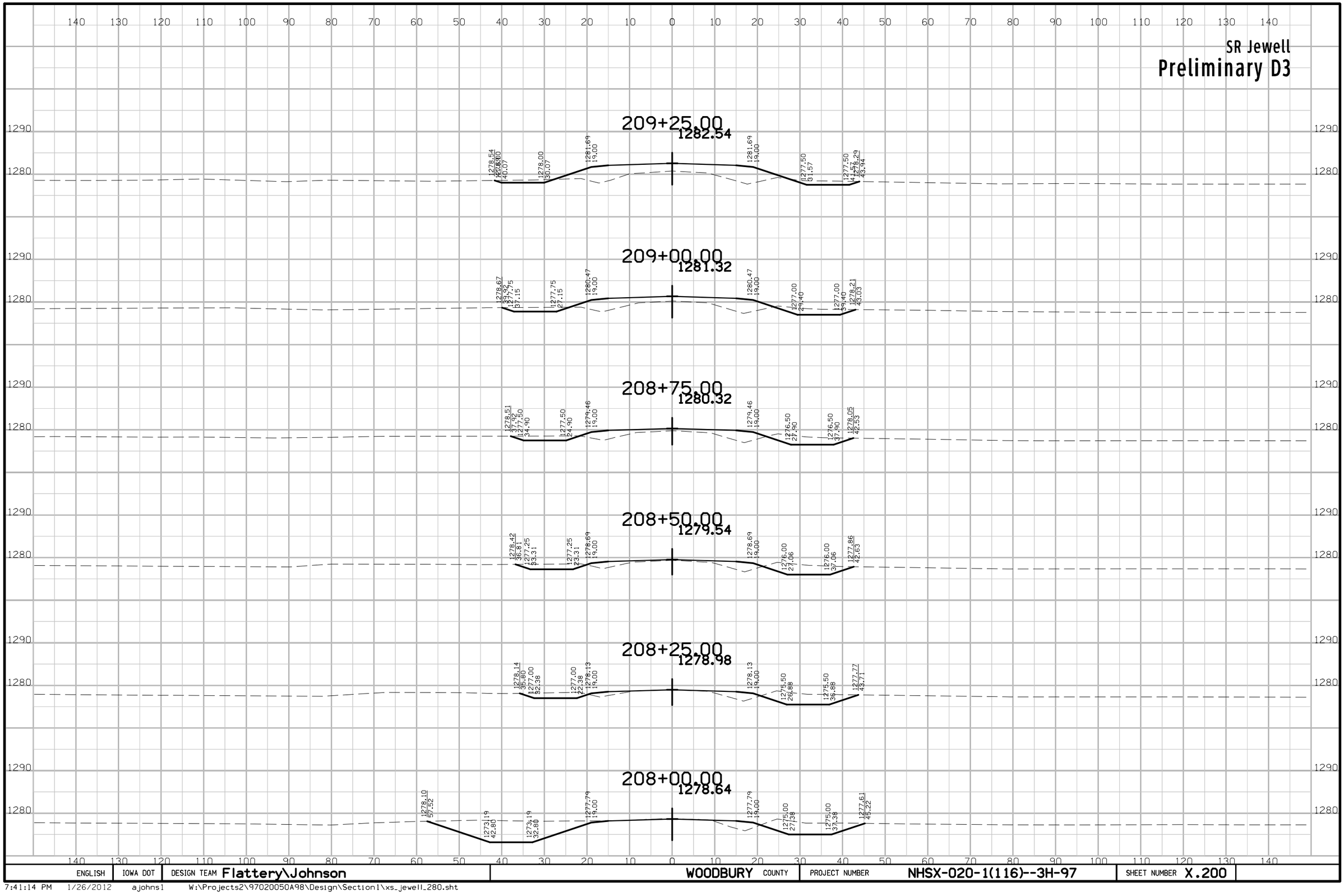


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.111

7:36:34 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jasper_280.sht

SR Jewell

Preliminary D3

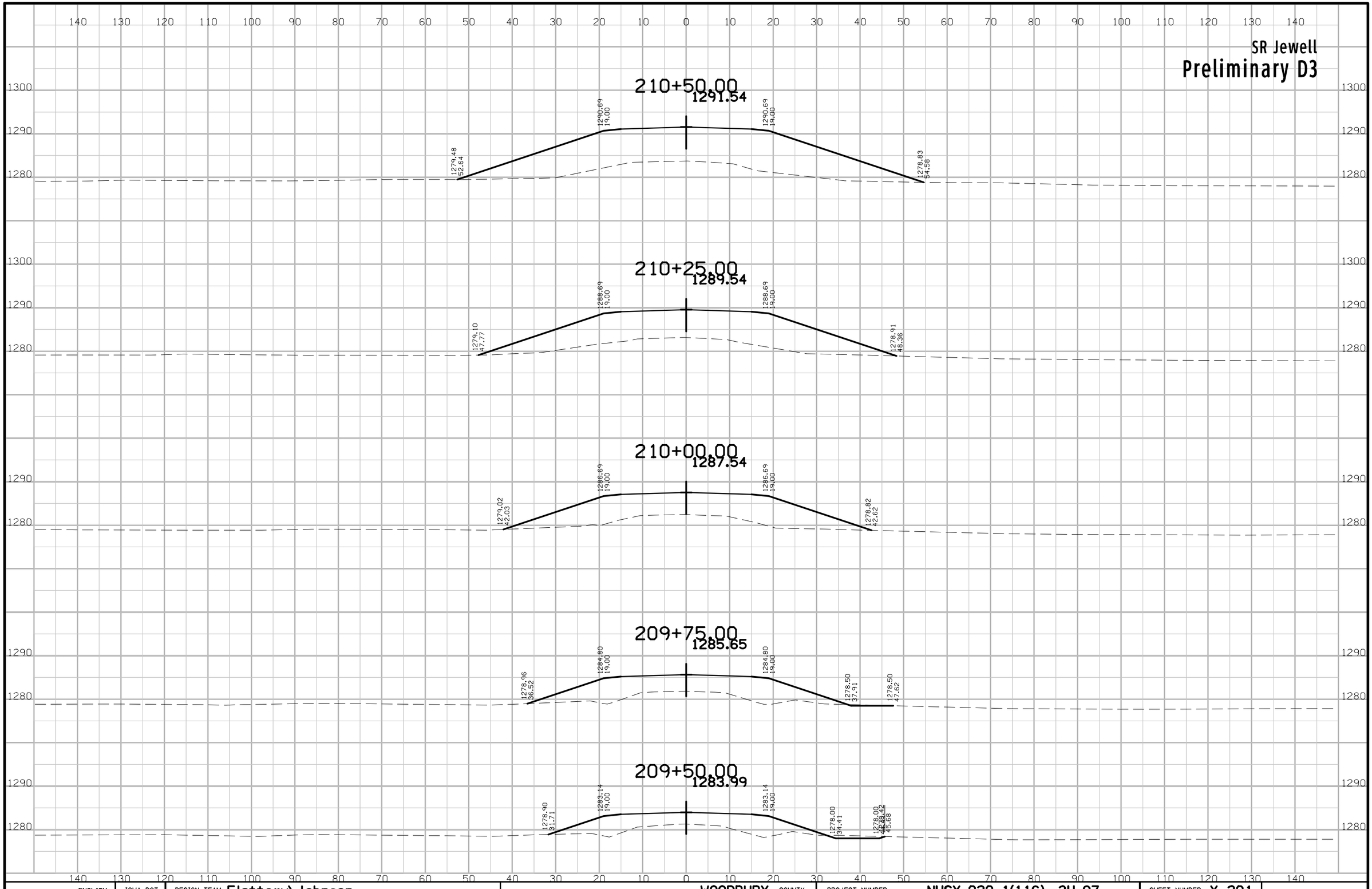


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.200

7:41:14 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Jewell

Preliminary D3

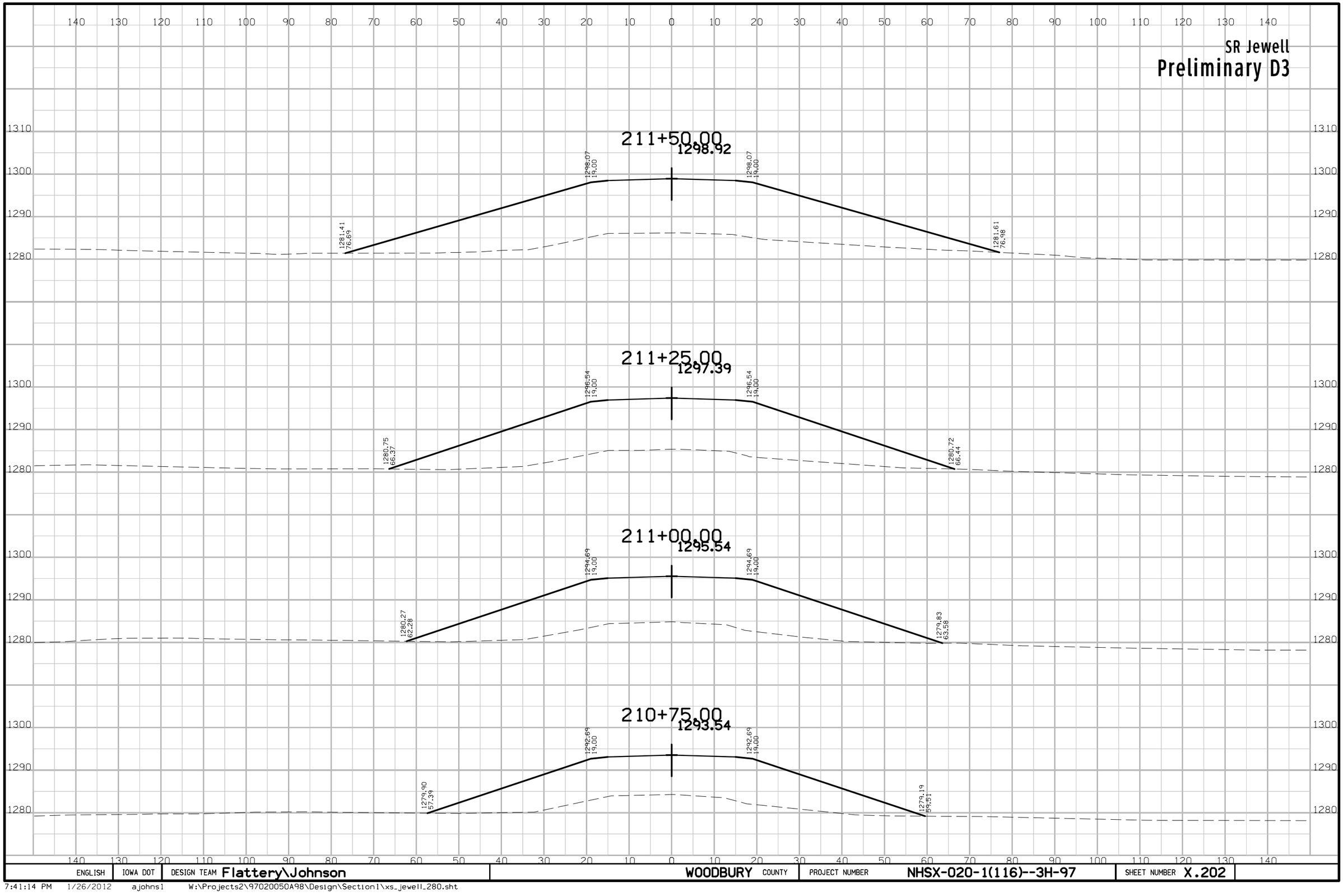


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.201

7:41:14 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Jewell

Preliminary D3

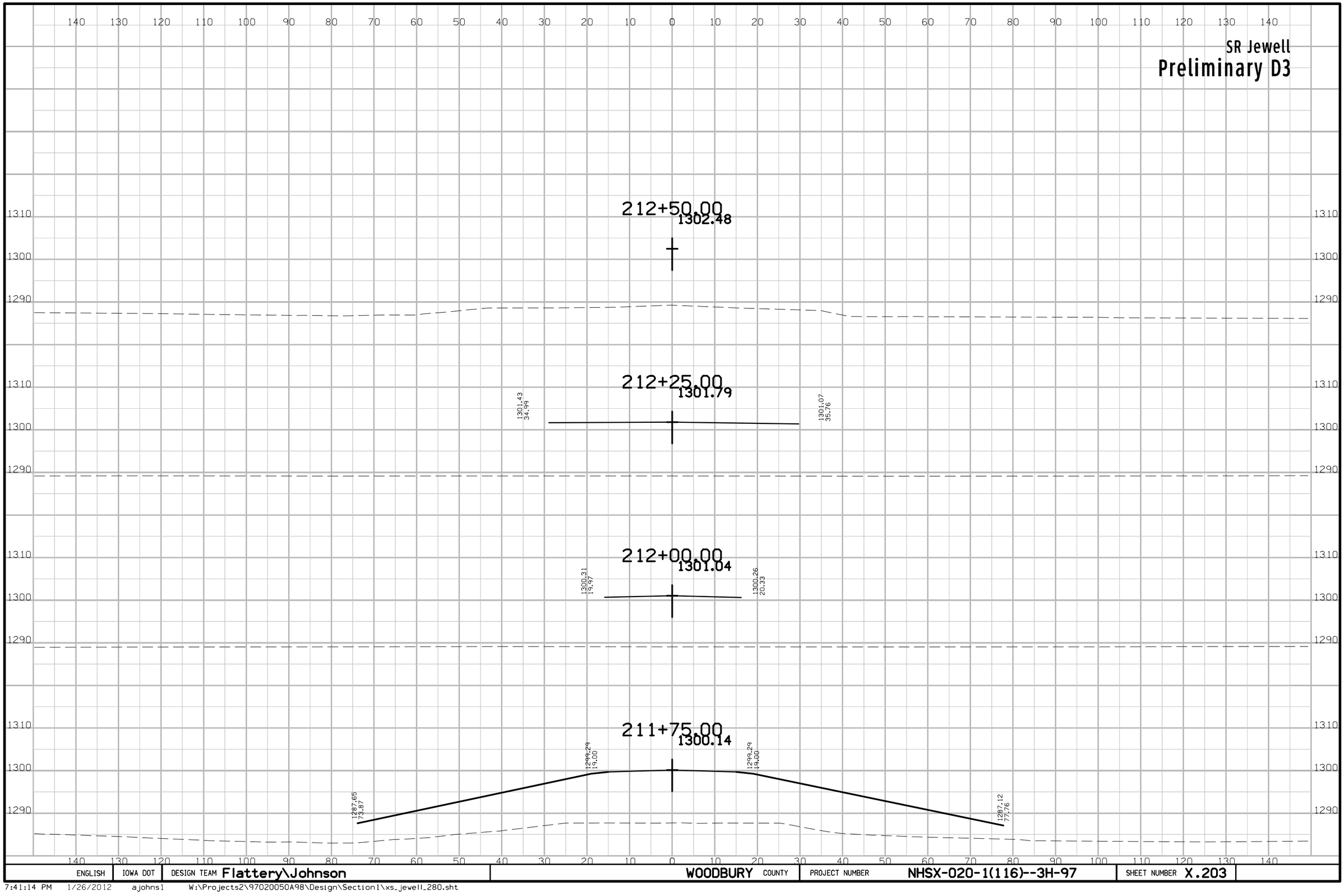


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.202

7:41:14 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Jewell

Preliminary D3

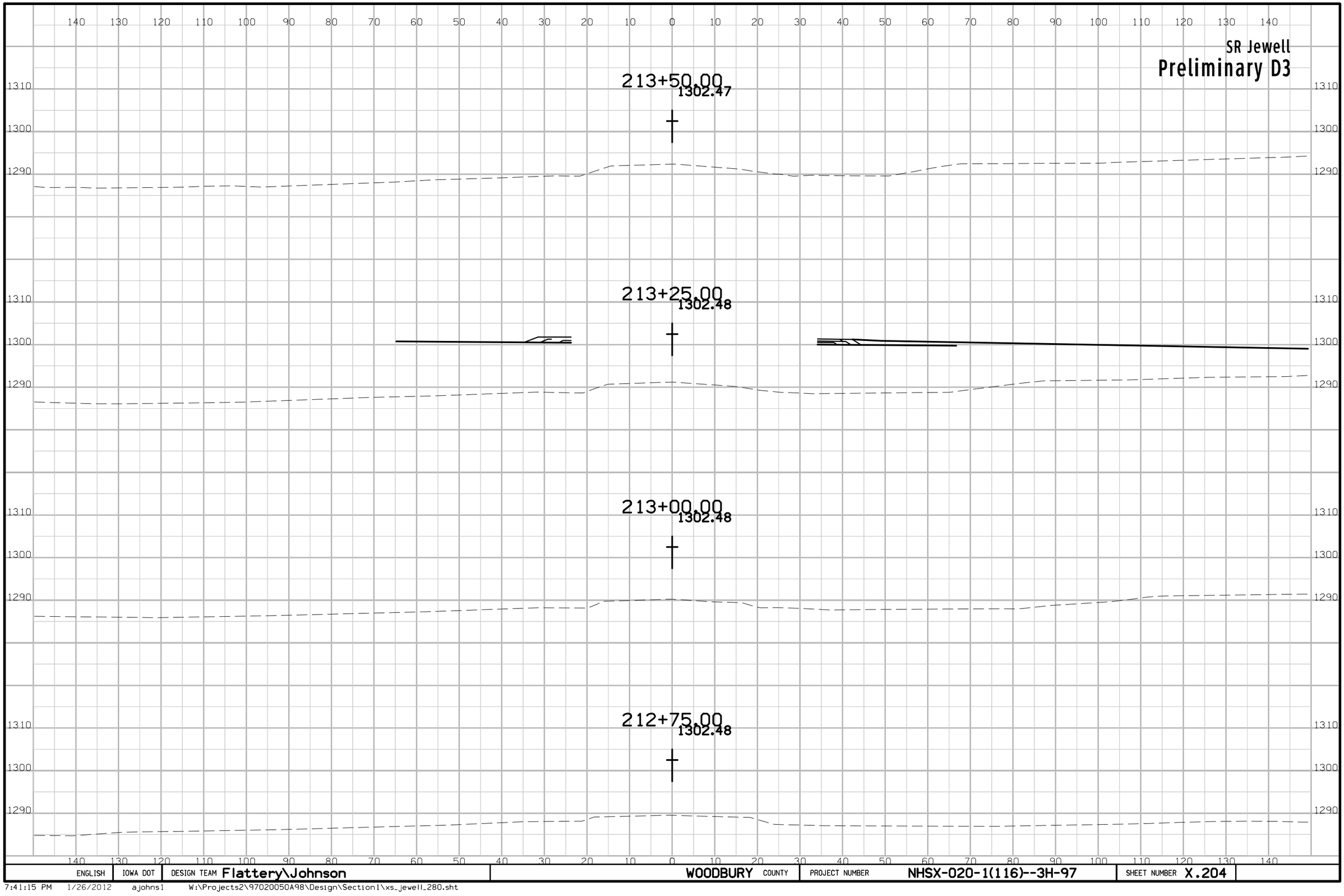


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.203

7:41:14 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Jewell

Preliminary D3

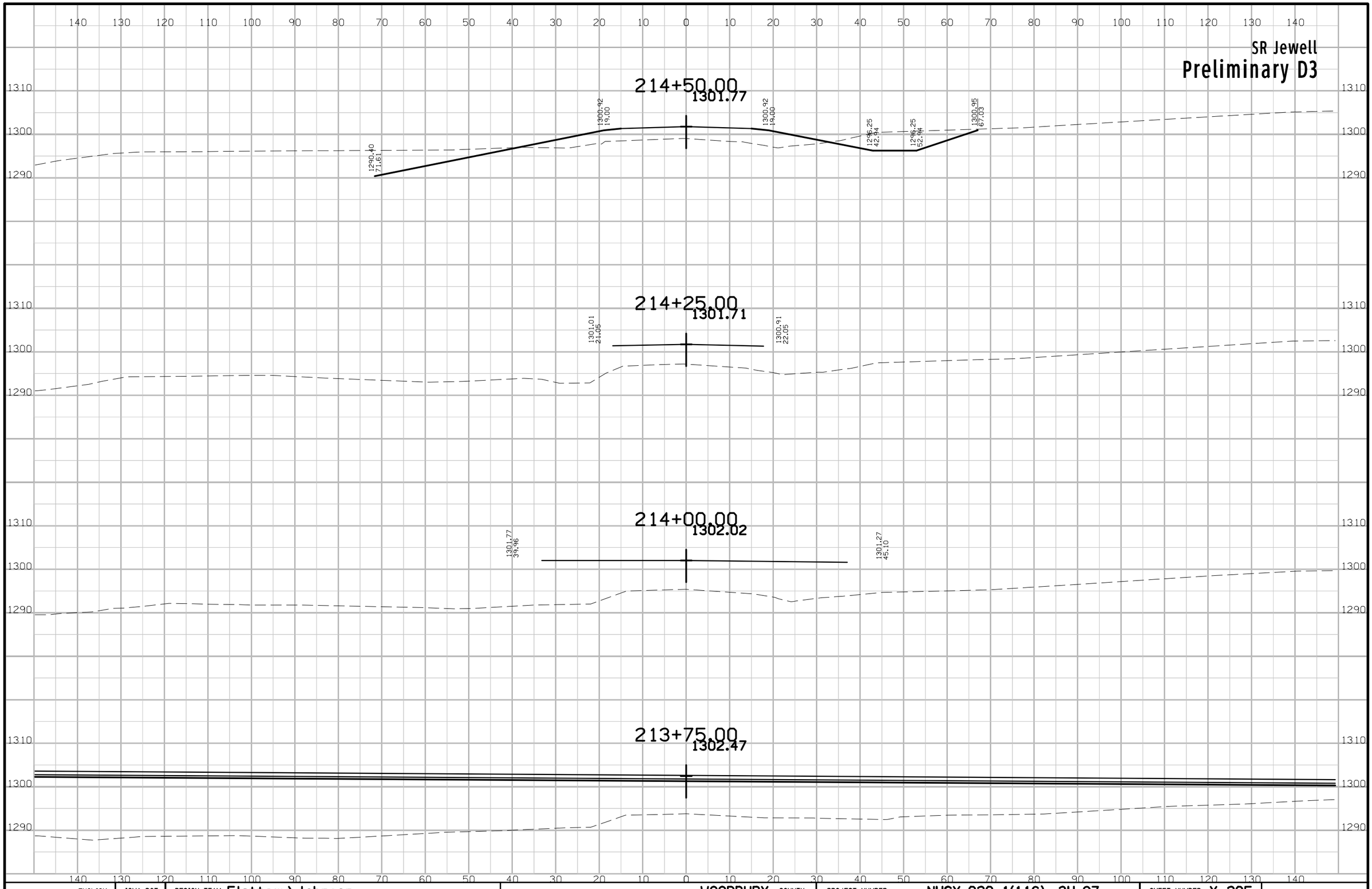


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.204

7:41:15 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Jewell

Preliminary D3

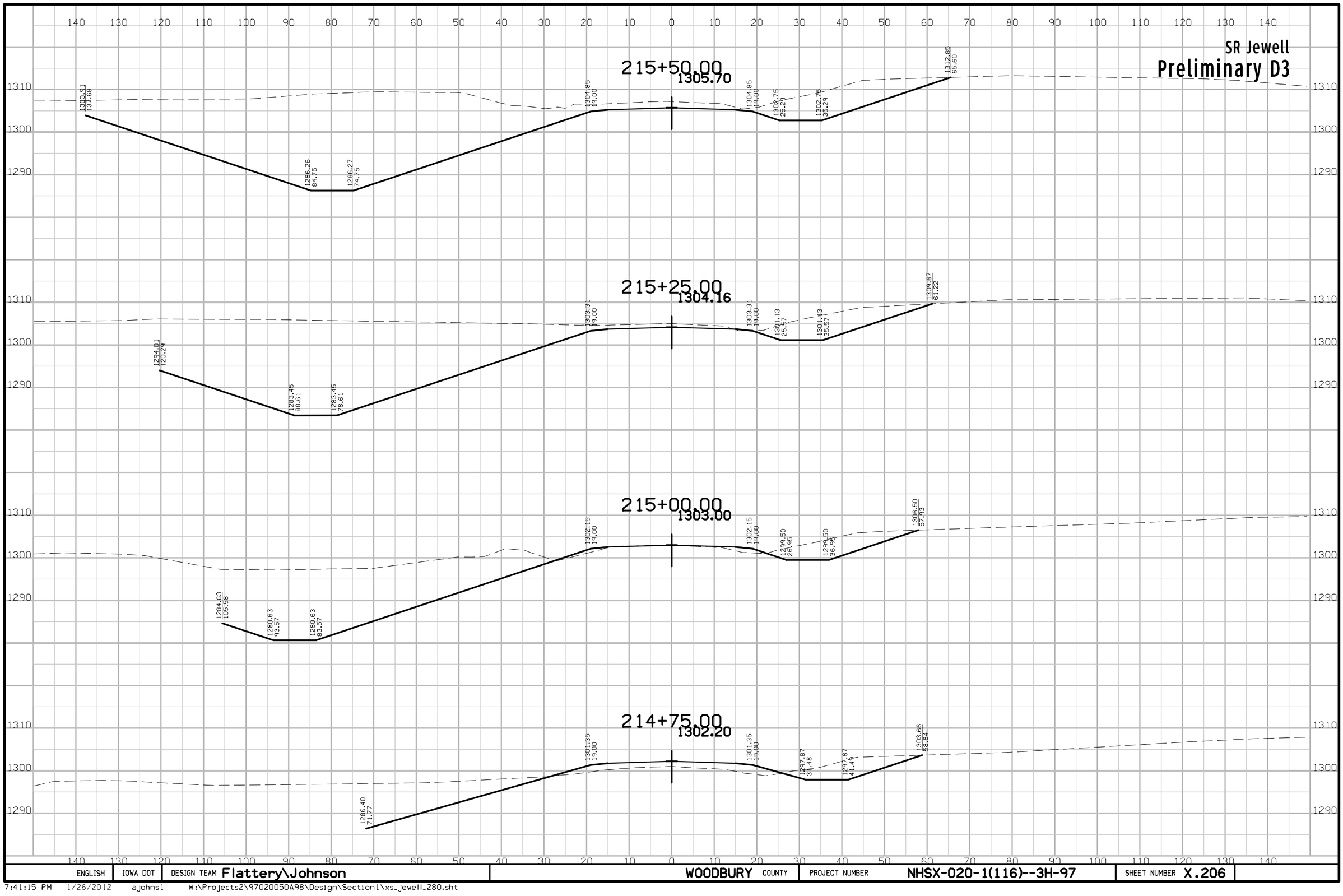


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.205

7:41:15 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Jewell

Preliminary D3



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

7:41:15 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Jewell

Preliminary D3

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

1321.07 172.75
1319.12 166.89
1319.72 151.89
1294.72 76.89
1294.72 66.89
1310.68 19.00
1310.68 9.00
1307.62 28.17
1307.62 38.17
1316.91 66.03

216+25.00
1311.53

1316.31 152.65
1291.90 79.42
1291.90 69.42
1308.71 19.00
1308.71 9.00
1306.00 27.12
1306.00 37.12
1316.51 68.66

216+00.00
1309.56

1306.65 134.65
1289.08 81.95
1289.08 71.95
1306.73 19.00
1306.73 9.00
1304.38 26.07
1304.37 36.07
1315.16 68.43

215+75.00
1307.58

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

7:41:15 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Jewell

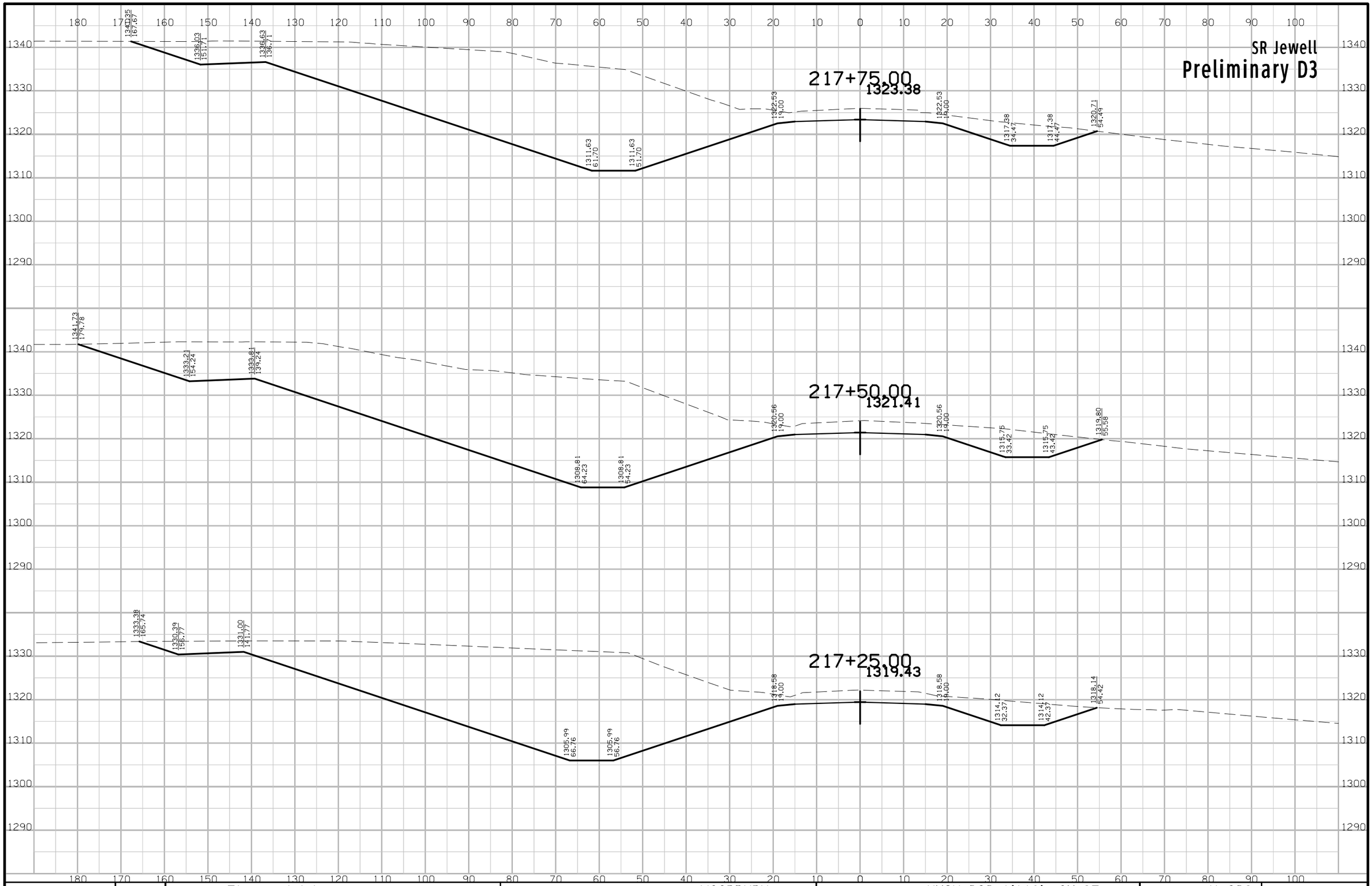
Preliminary D3

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

7:41:16 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Jewell

Preliminary D3

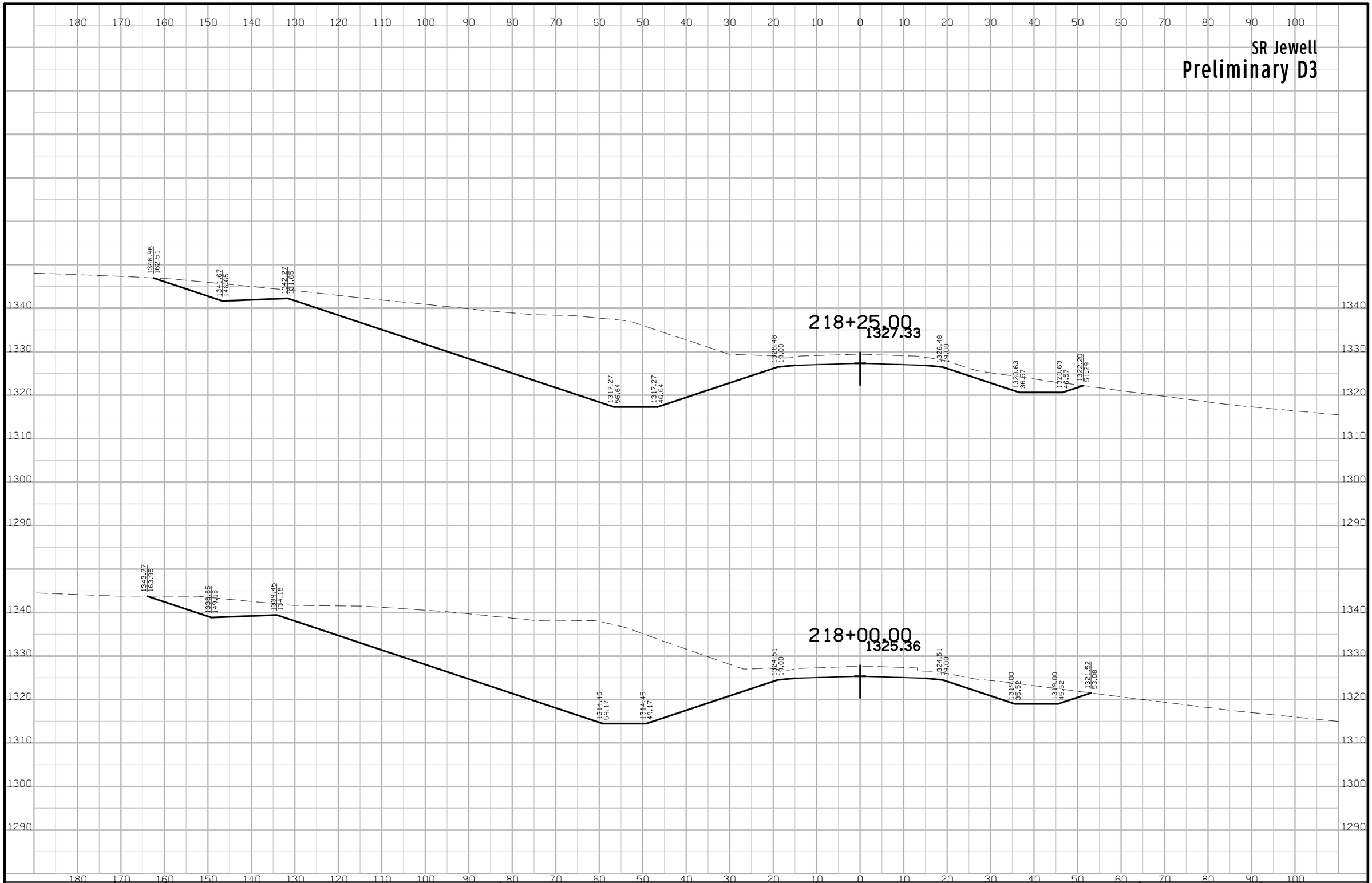


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.209

7:41:16 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Jewell

Preliminary D3

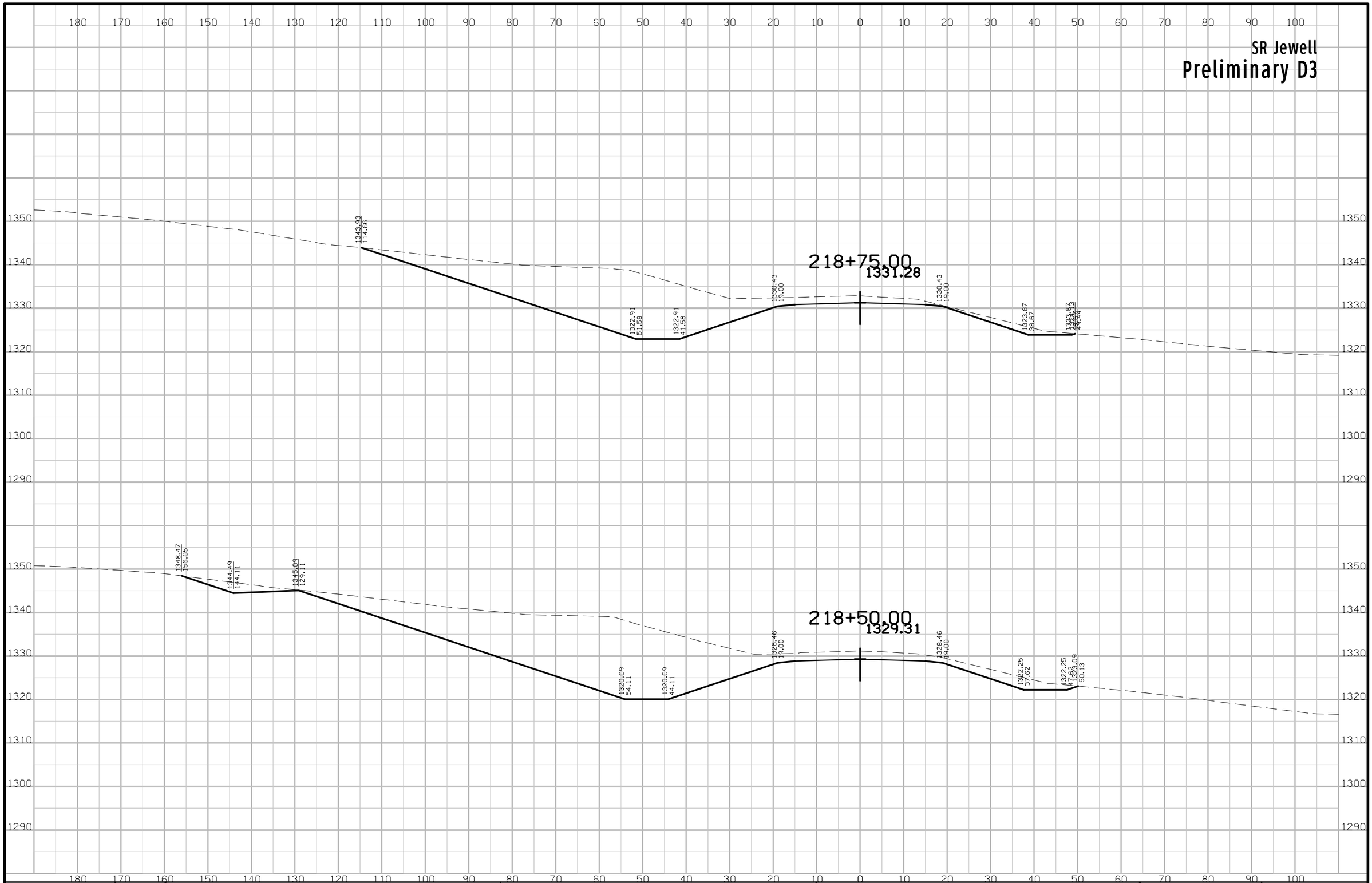


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.210

7:41:16 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Jewell

Preliminary D3

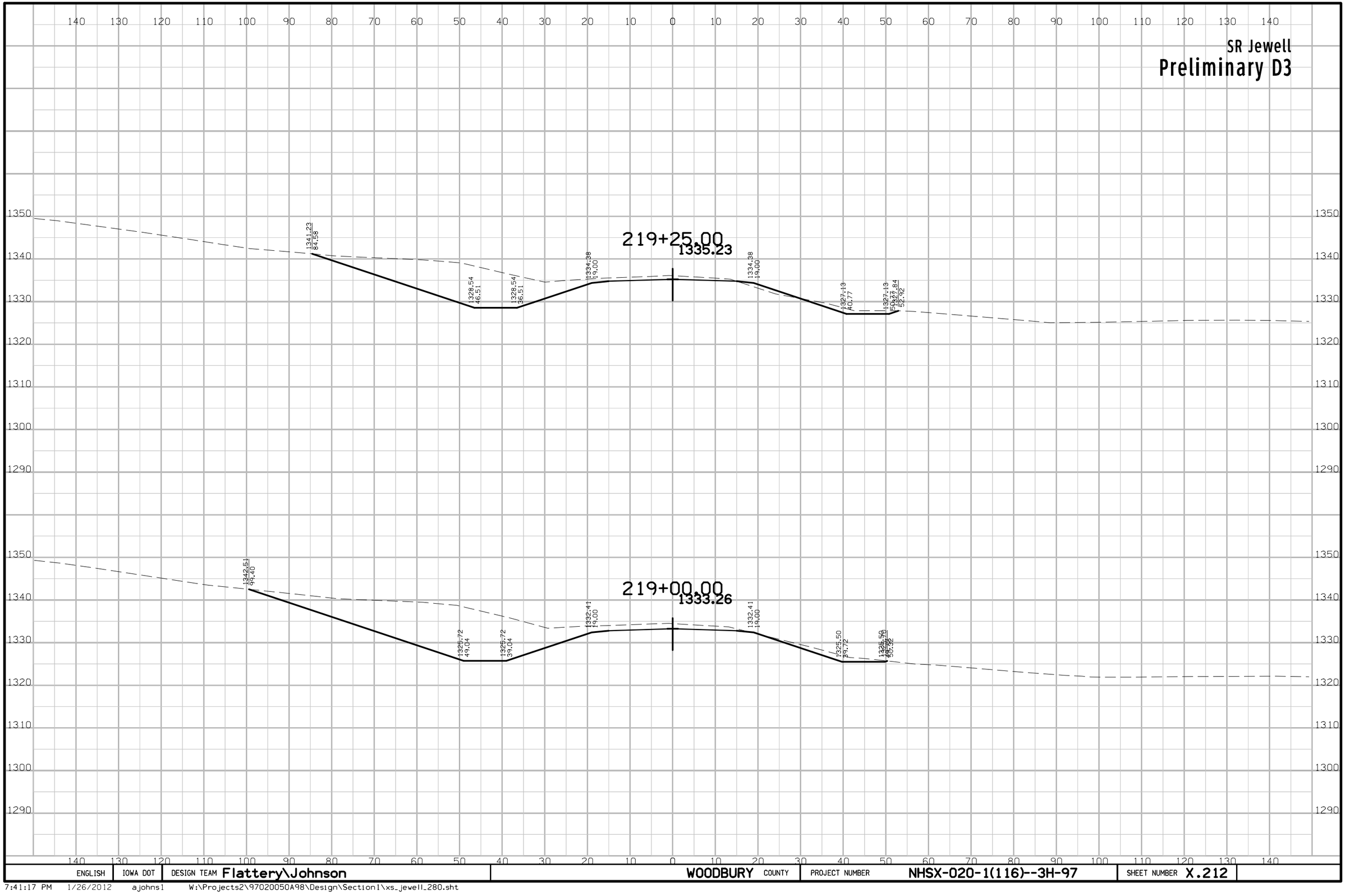


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.211

7:41:17 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Jewell

Preliminary D3

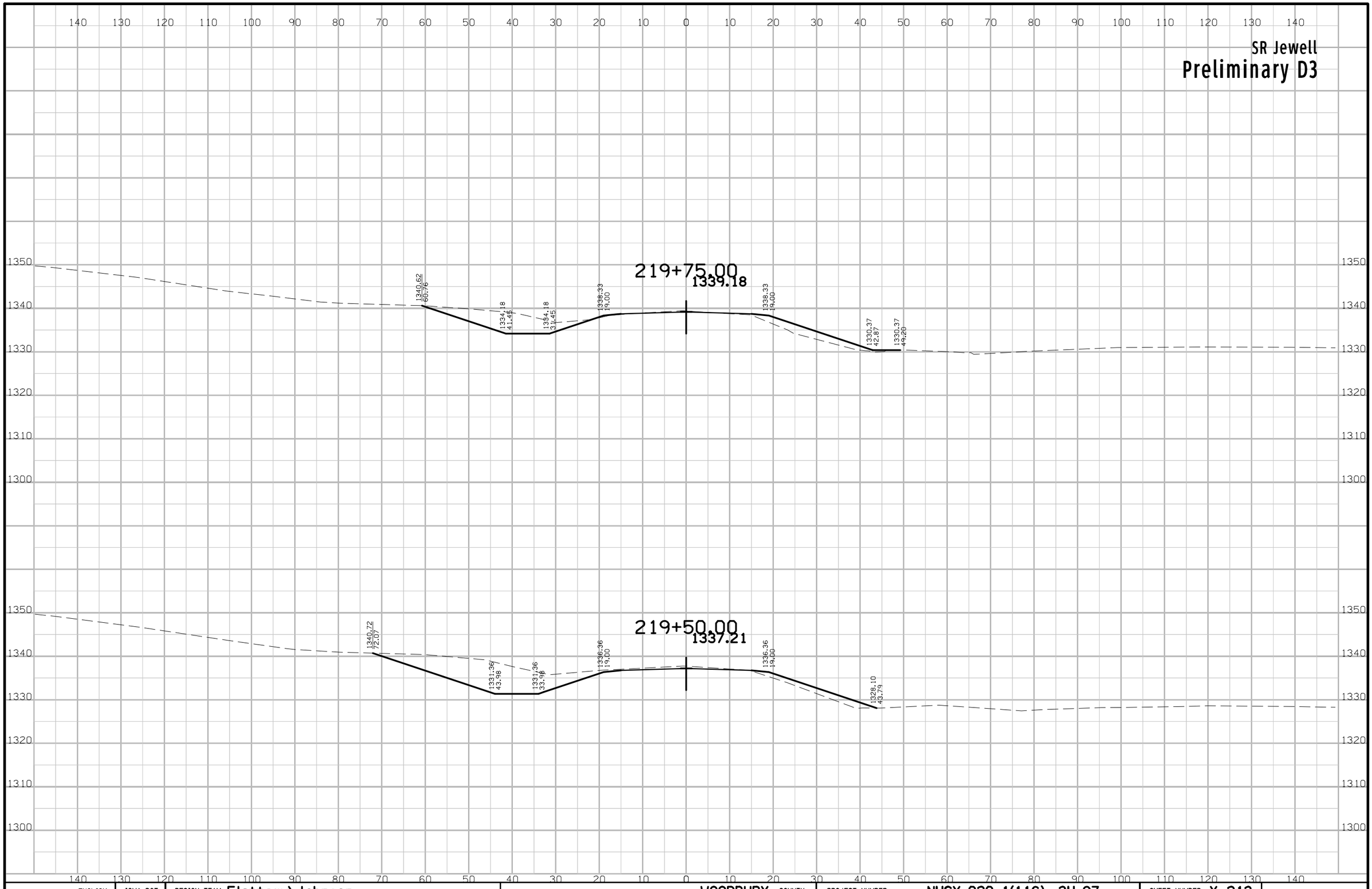


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.212

7:41:17 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Jewell

Preliminary D3

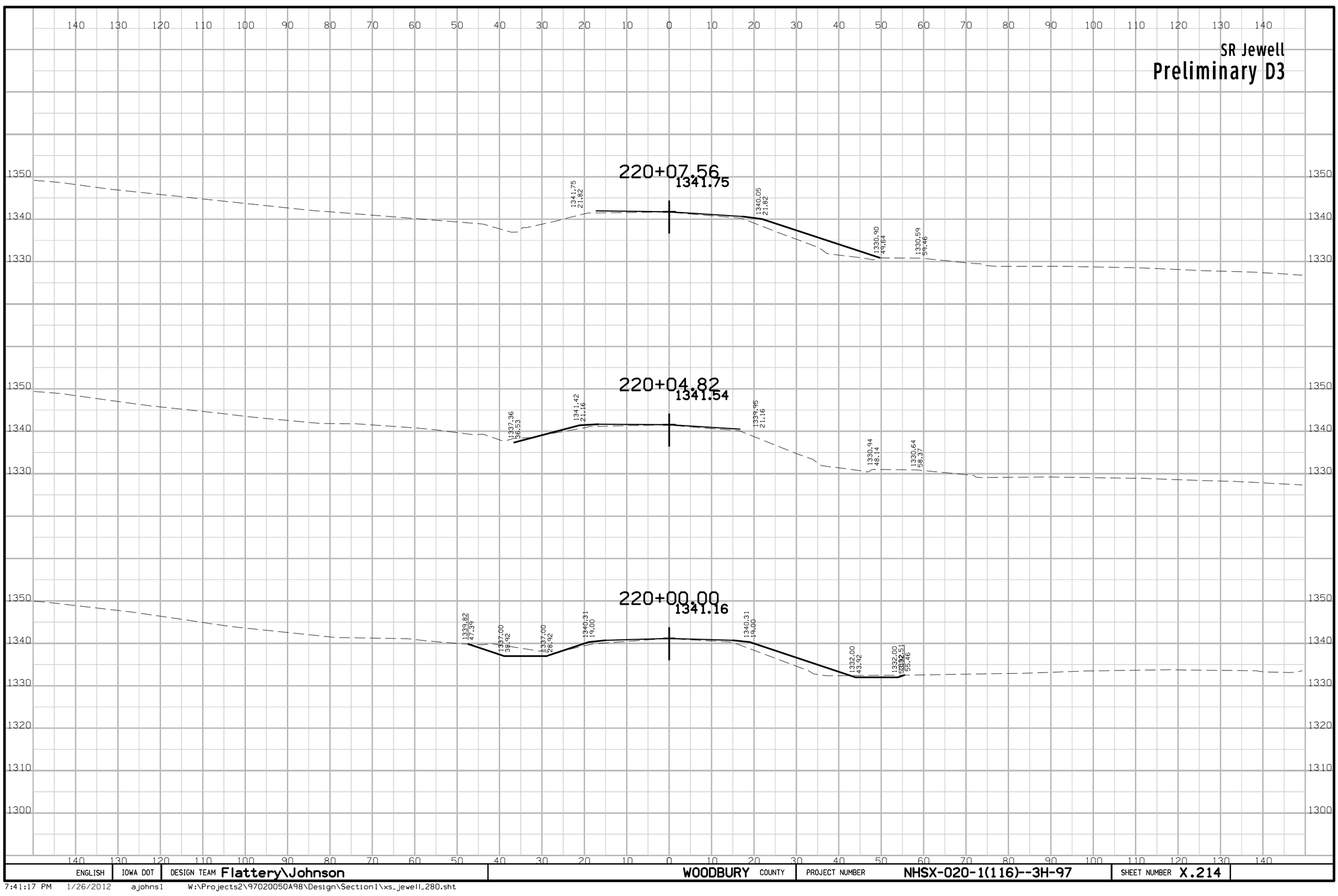


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.213

7:41:17 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Jewell

Preliminary D3



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

7:41:17 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Jewell

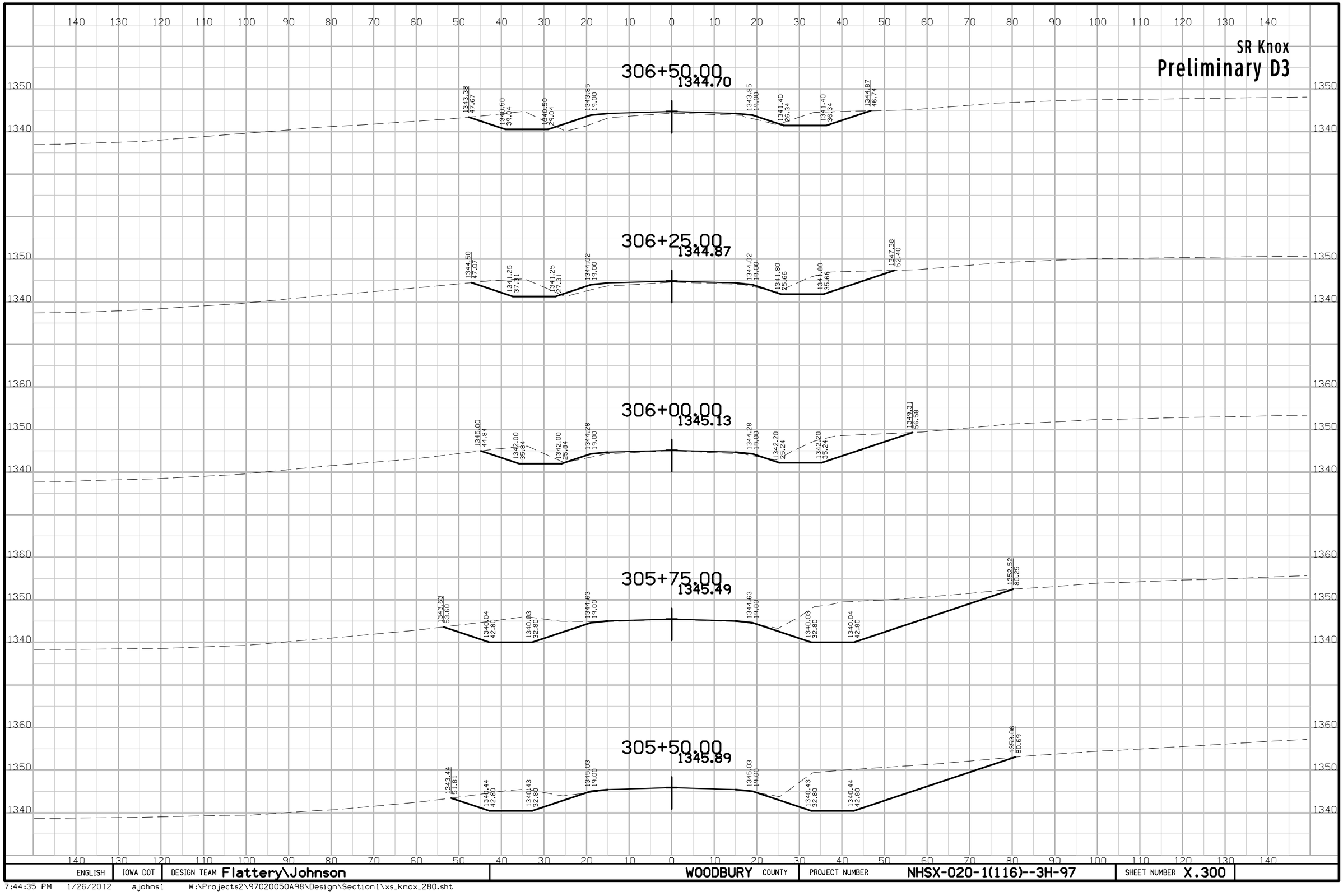
Preliminary D3

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

7:41:18 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_jewell_280.sht

SR Knox

Preliminary D3



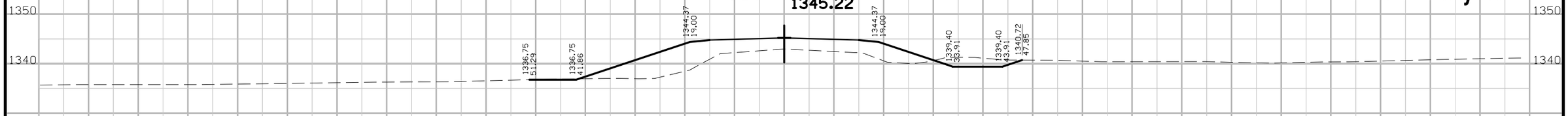
ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.300

7:44:35 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

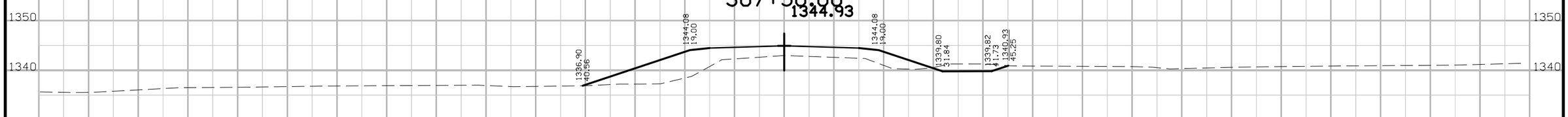
SR Knox

Preliminary D3

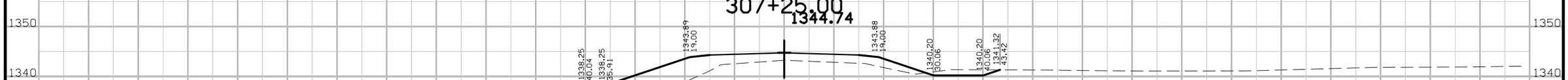
307+75.00
1345.22



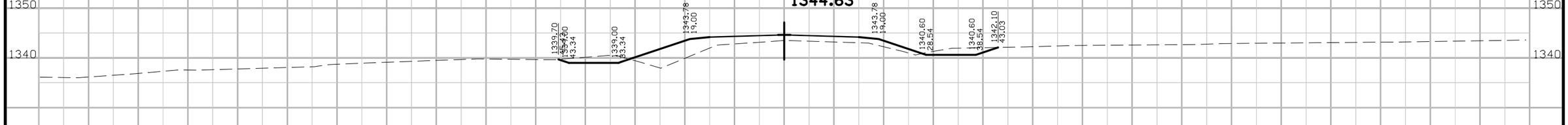
307+50.00
1344.93



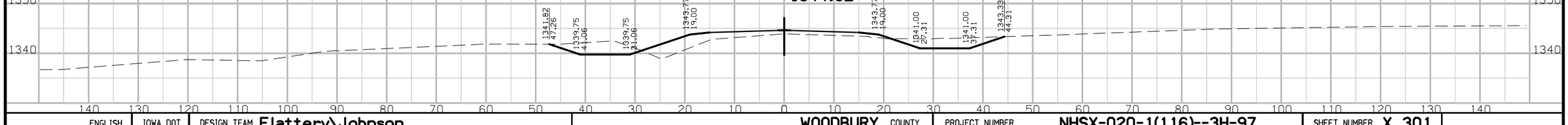
307+25.00
1344.74



307+00.00
1344.63



306+75.00
1344.62



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.301

7:44:35 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

SR Knox

Preliminary D3

309+00.00
1348.03

1347.18 19.00 | 1347.18 19.00 | 1336.31 81.49 | 1333.00 71.55 | 1333.00 61.55 | 1337.40 48.35 | 1337.40 58.35 | 1340.03 66.23

308+75.00
1347.29

1346.44 19.00 | 1346.43 19.00 | 1337.31 77.73 | 1333.75 67.06 | 1333.75 57.06 | 1337.80 44.91 | 1337.80 54.91 | 1340.18 62.04

308+50.00
1346.63

1345.78 19.00 | 1345.78 19.00 | 1337.18 70.84 | 1334.50 62.85 | 1334.50 52.85 | 1338.20 41.74 | 1338.20 51.75 | 1340.37 58.26

308+25.00
1346.07

1345.22 19.00 | 1345.22 19.00 | 1336.94 63.97 | 1335.25 58.91 | 1335.25 48.91 | 1338.60 38.86 | 1338.60 48.86 | 1340.59 54.84

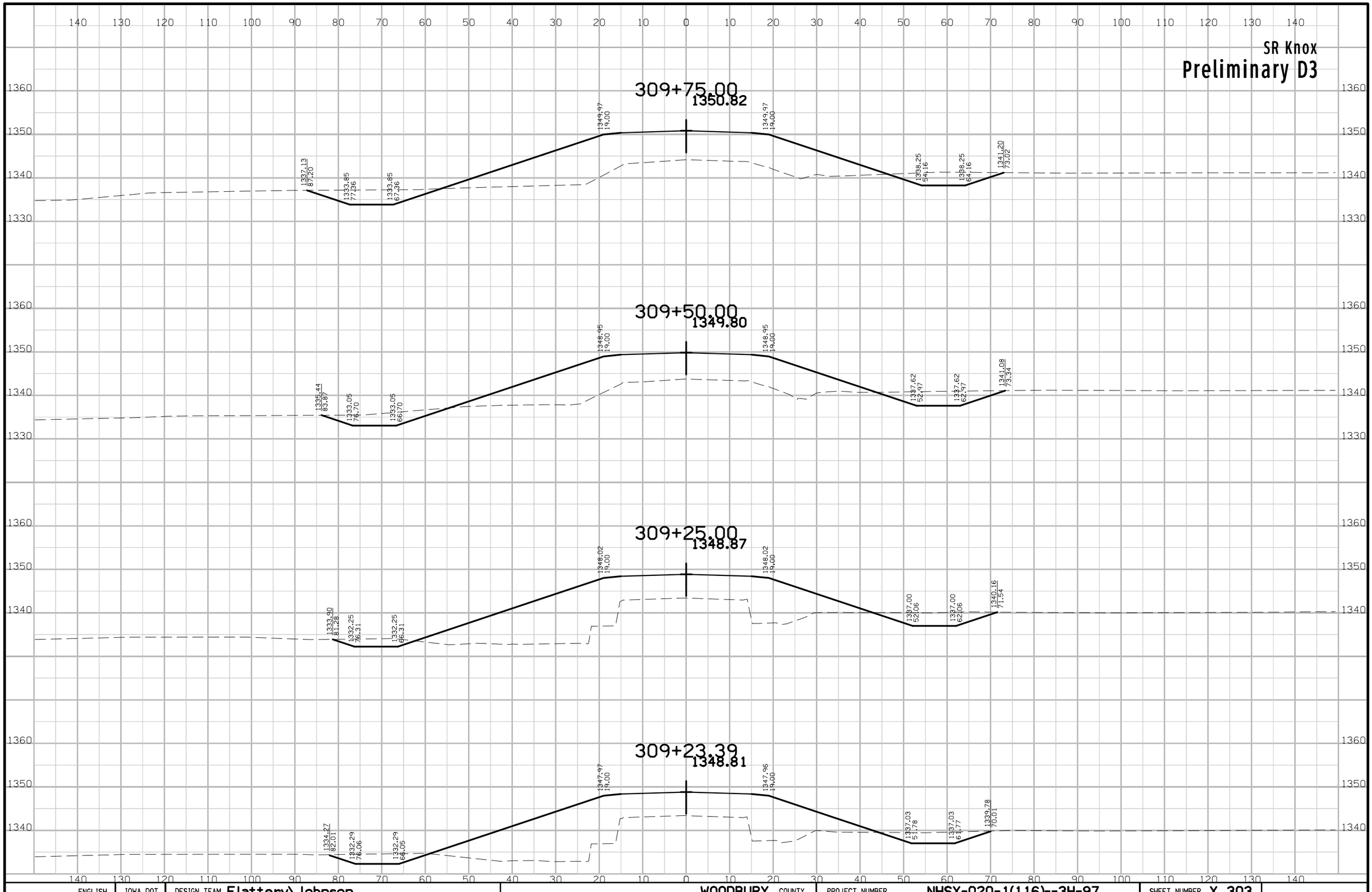
308+00.00
1345.60

1344.75 19.00 | 1344.75 19.00 | 1336.77 | 1336.00 55.25 | 1336.00 45.25 | 1339.00 36.25 | 1339.00 46.24 | 1340.65 51.19

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.302

SR Knox

Preliminary D3

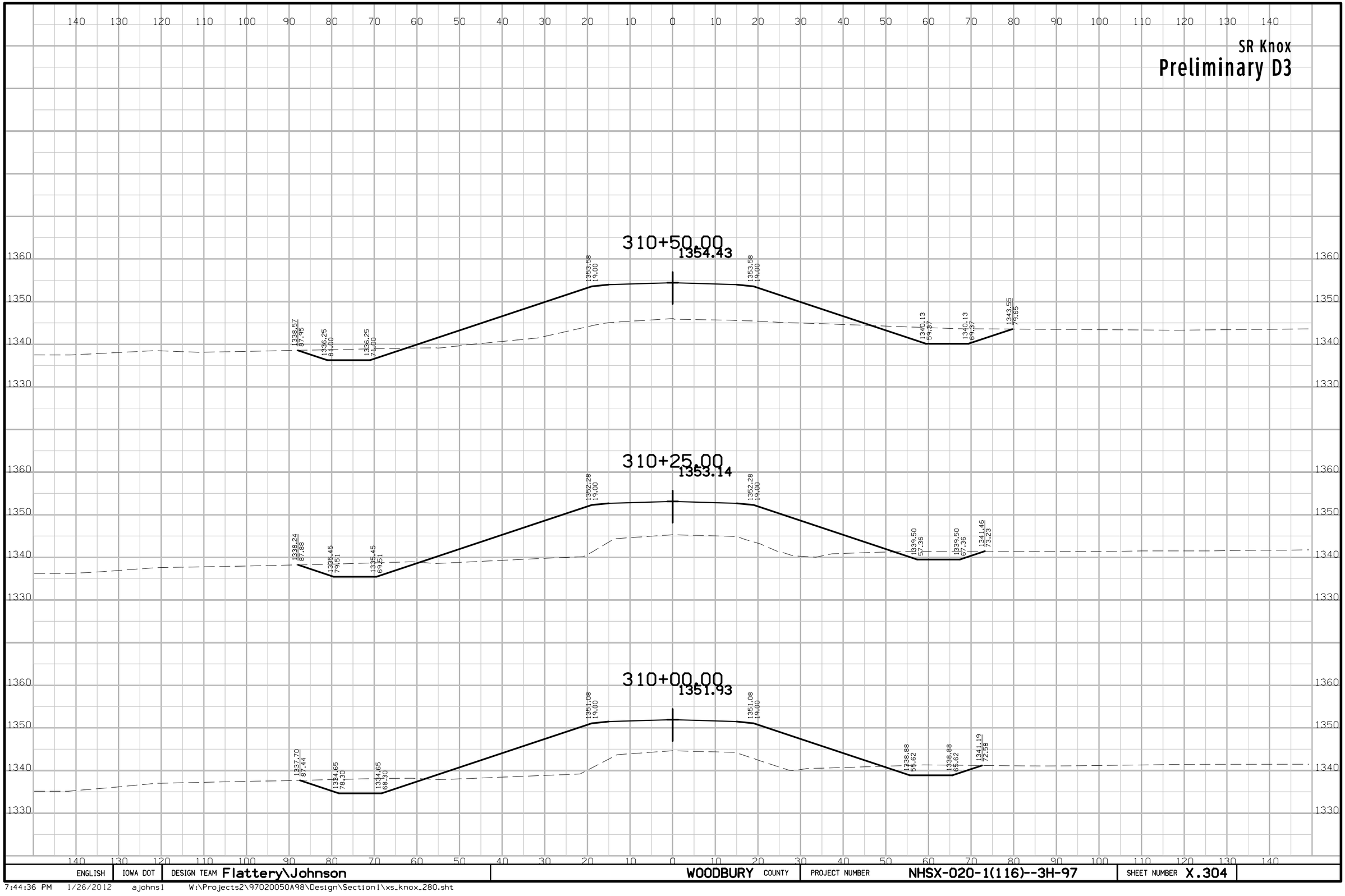


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.303

7:44:36 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

SR Knox

Preliminary D3

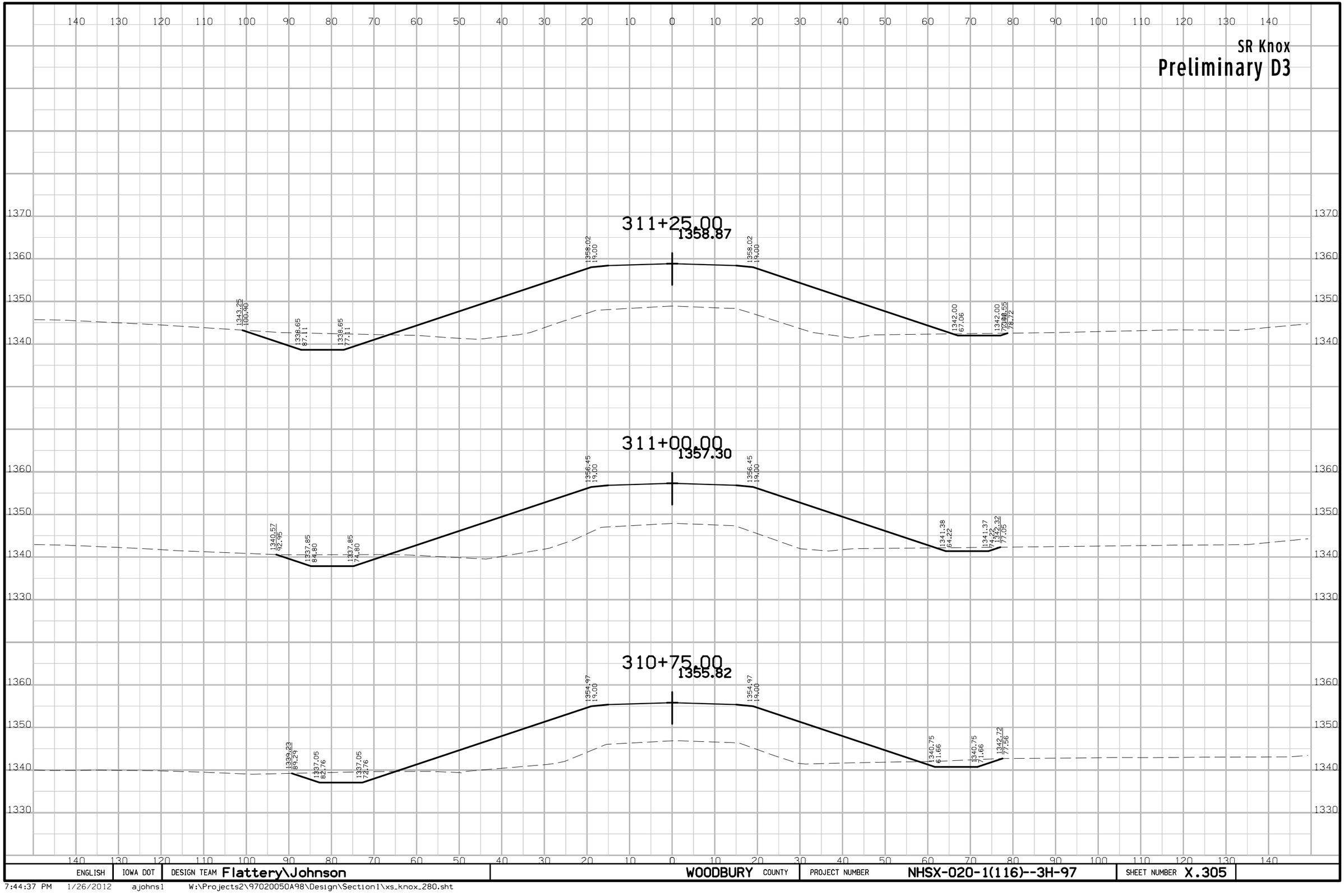


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.304

7:44:36 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

SR Knox

Preliminary D3

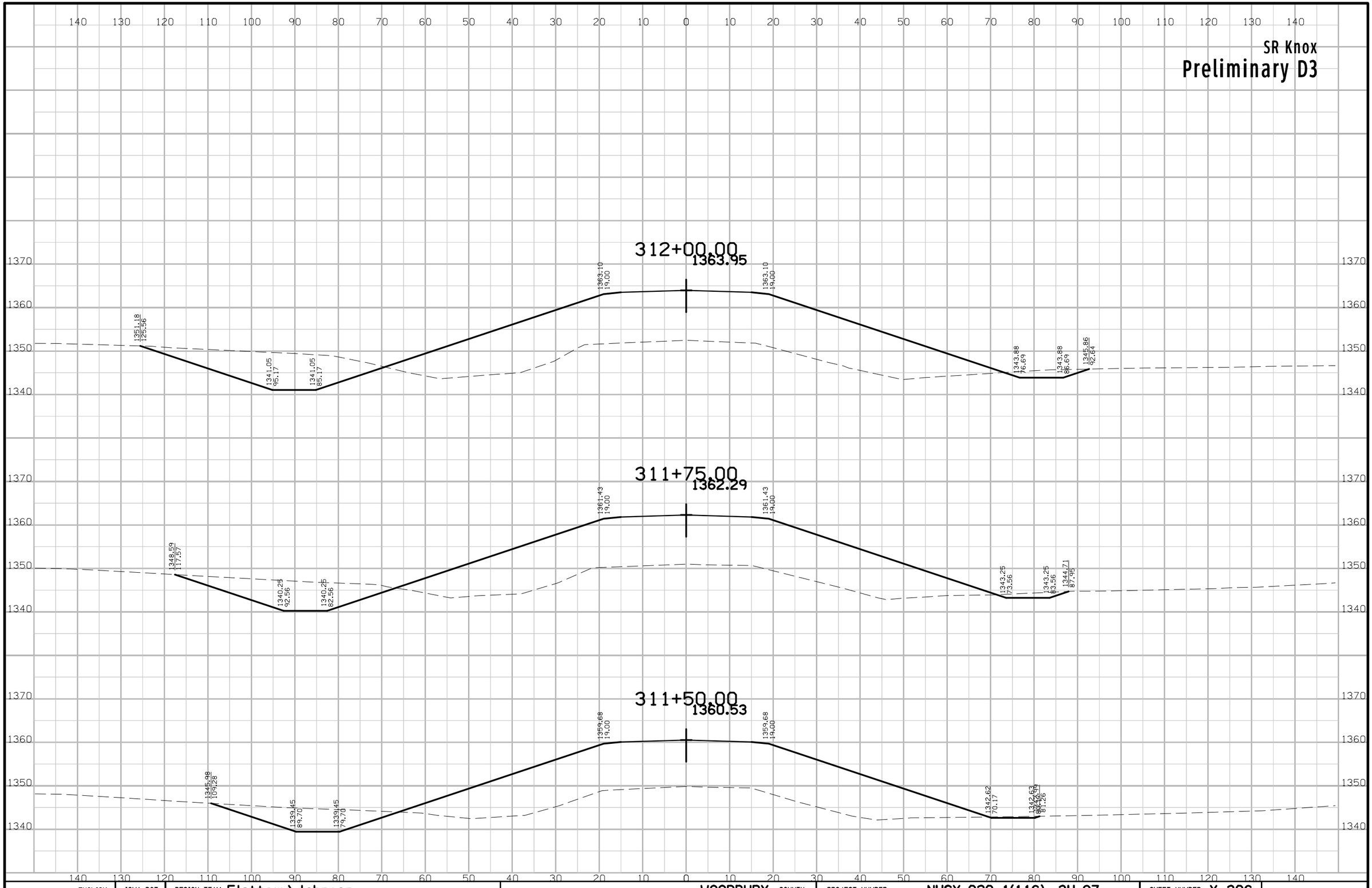


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.305

7:44:37 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

SR Knox

Preliminary D3

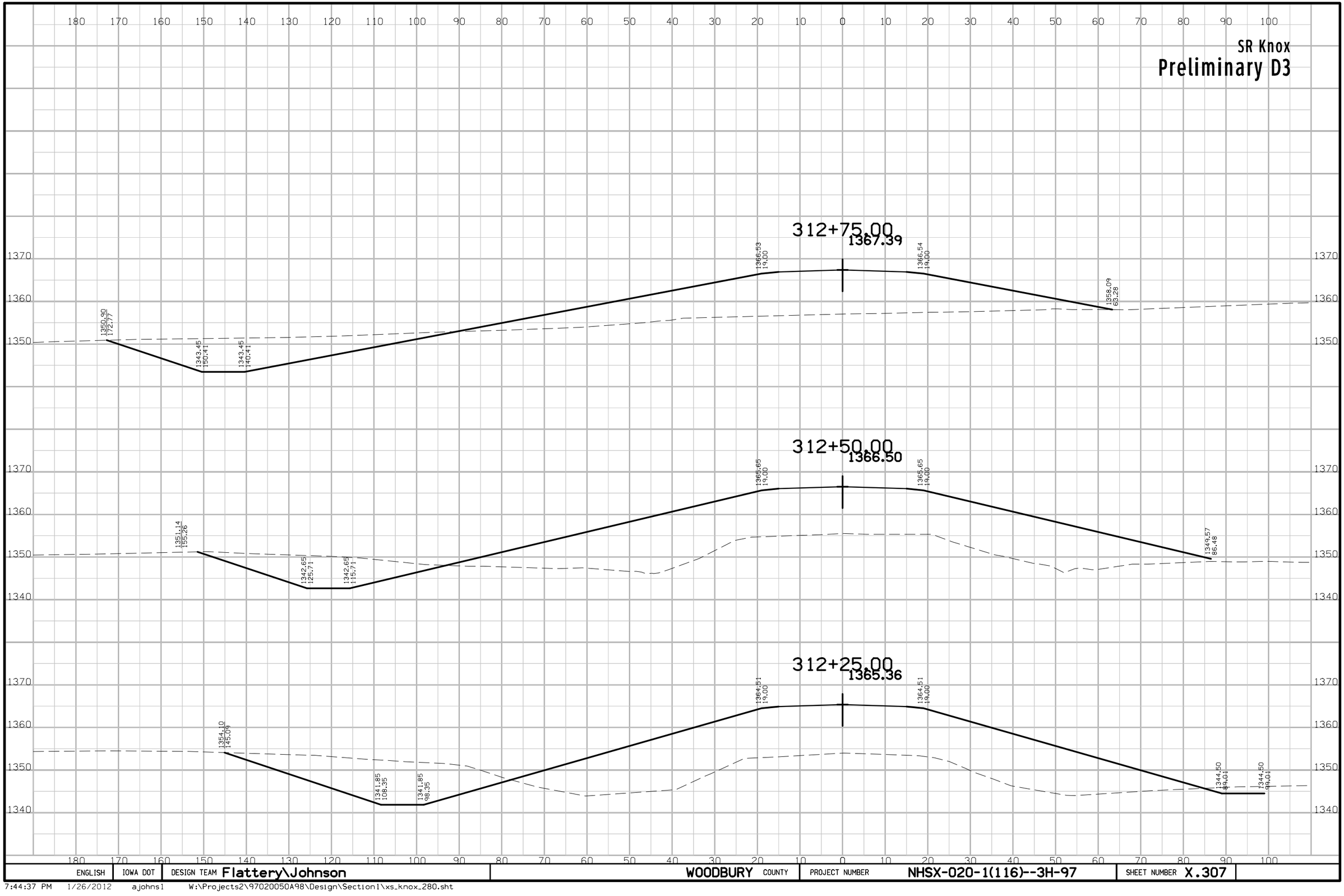


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.306

7:44:37 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

SR Knox

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.307

7:44:37 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

SR Knox

Preliminary D3

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

1367.41
41.14

1369.24
36.53

313+00.00
1368.14

1367.26
20.84

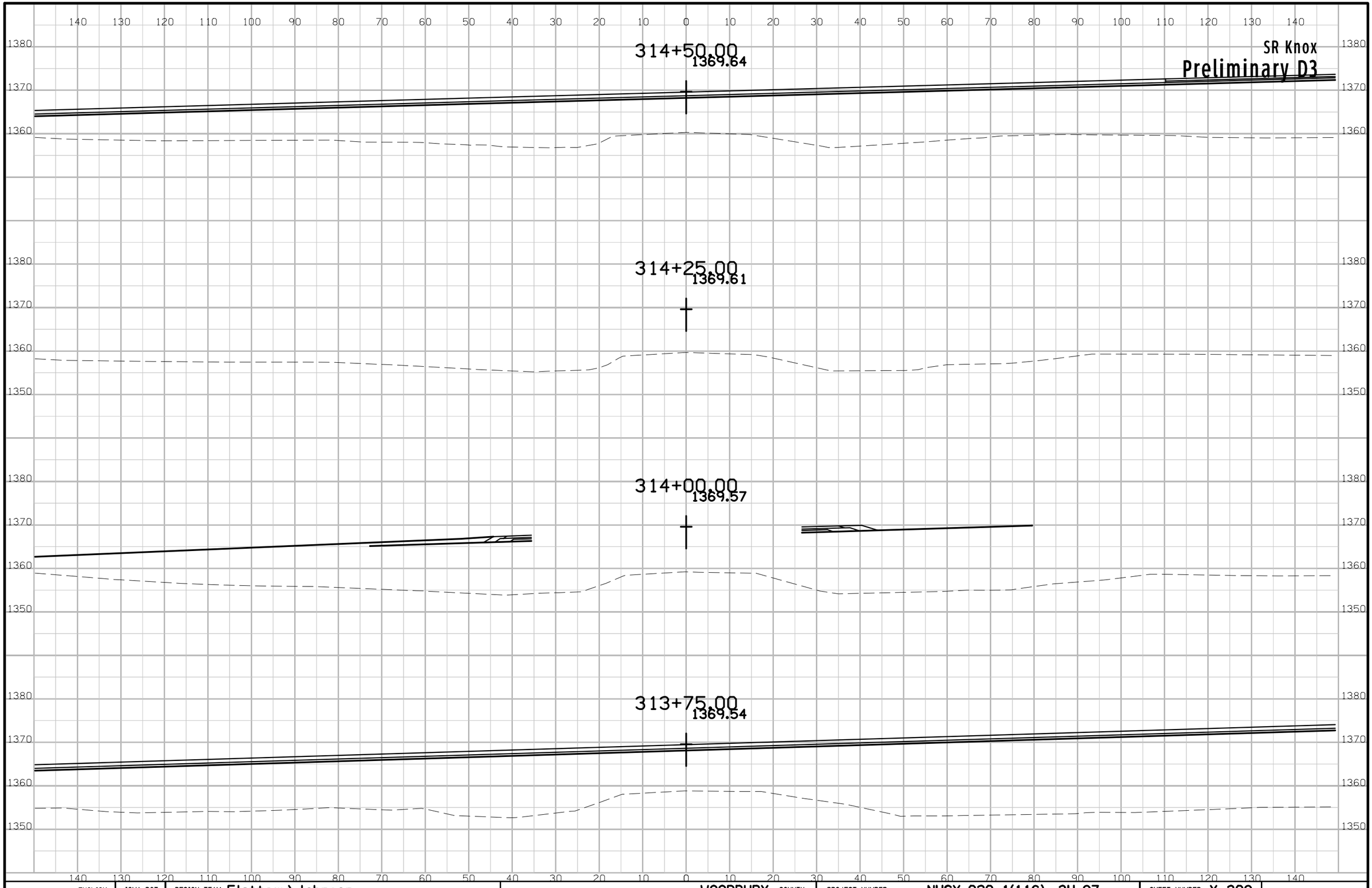
1367.57
20.72

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.308

7:44:38 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

SR Knox

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.309

7:44:38 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

SR Knox

Preliminary D3

315+75.00

1368.30

1366.82 47.46
1364.25 39.74
1364.25 29.74
1367.44 14.00
1367.45 14.00
1365.75 24.96
1365.75 34.96
1368.72 43.88

315+50.00

1368.22

1364.76 50.87
1363.50 47.10
1363.50 37.10
1367.38 14.00
1367.37 14.00
1365.50 28.32
1365.50 38.32
1366.92 42.57

315+25.00

1368.48

1367.61 20.28
1367.90 21.34
1364.87 56.06

315+00.00

1369.07

1367.75 36.28
1369.57 41.98

314+75.00

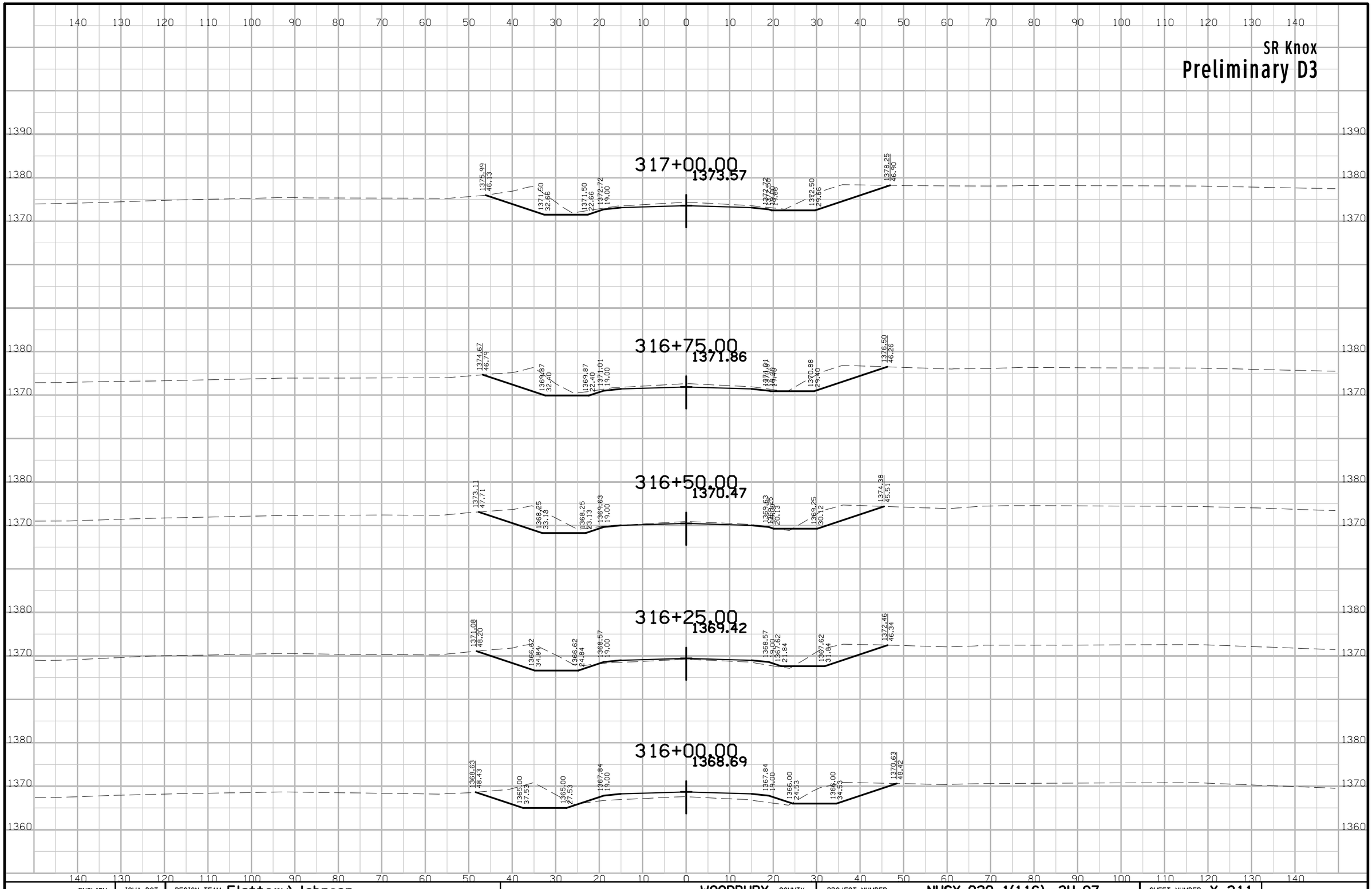
1369.67

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.310

7:44:38 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

SR Knox

Preliminary D3

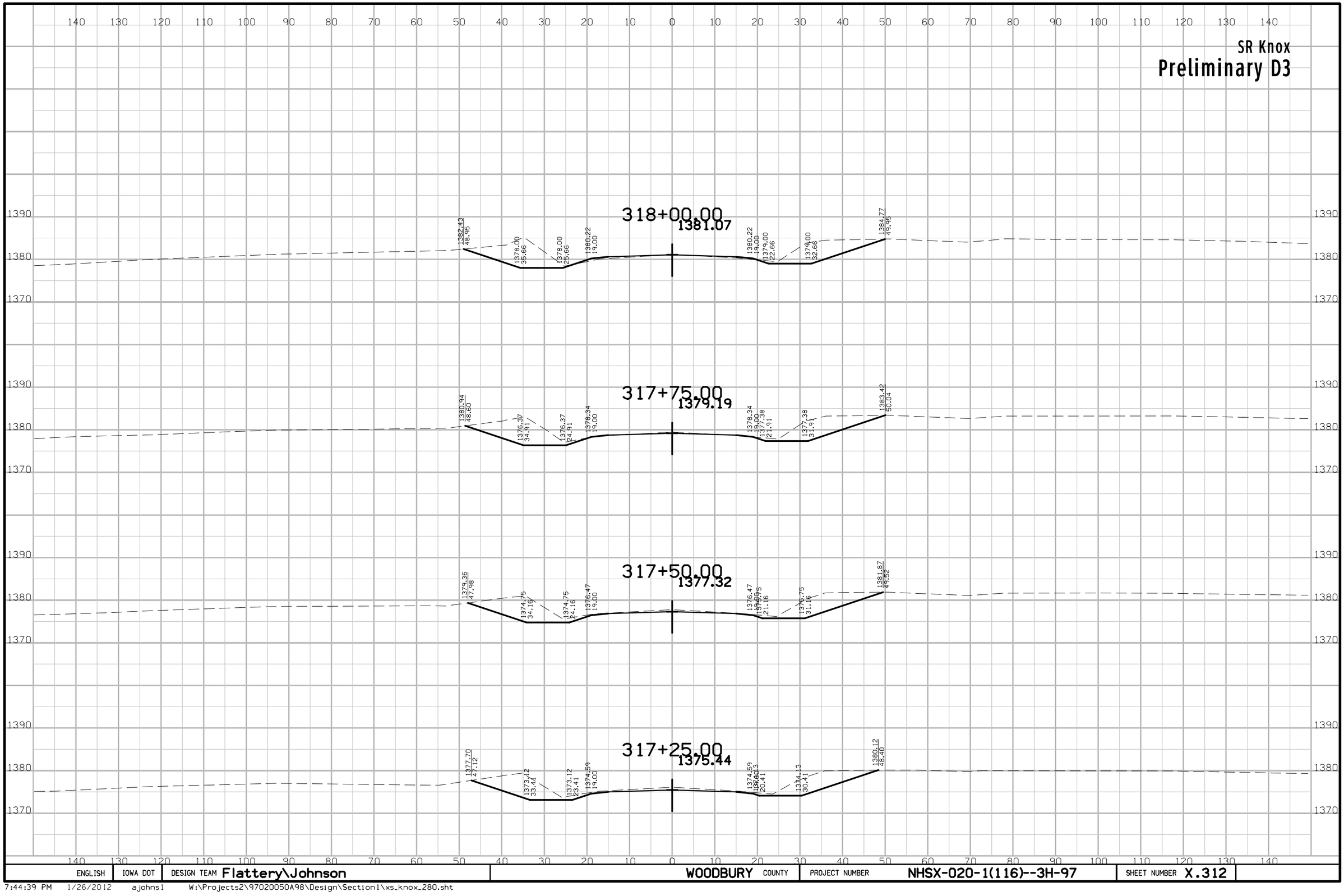


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.311

7:44:38 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

SR Knox

Preliminary D3

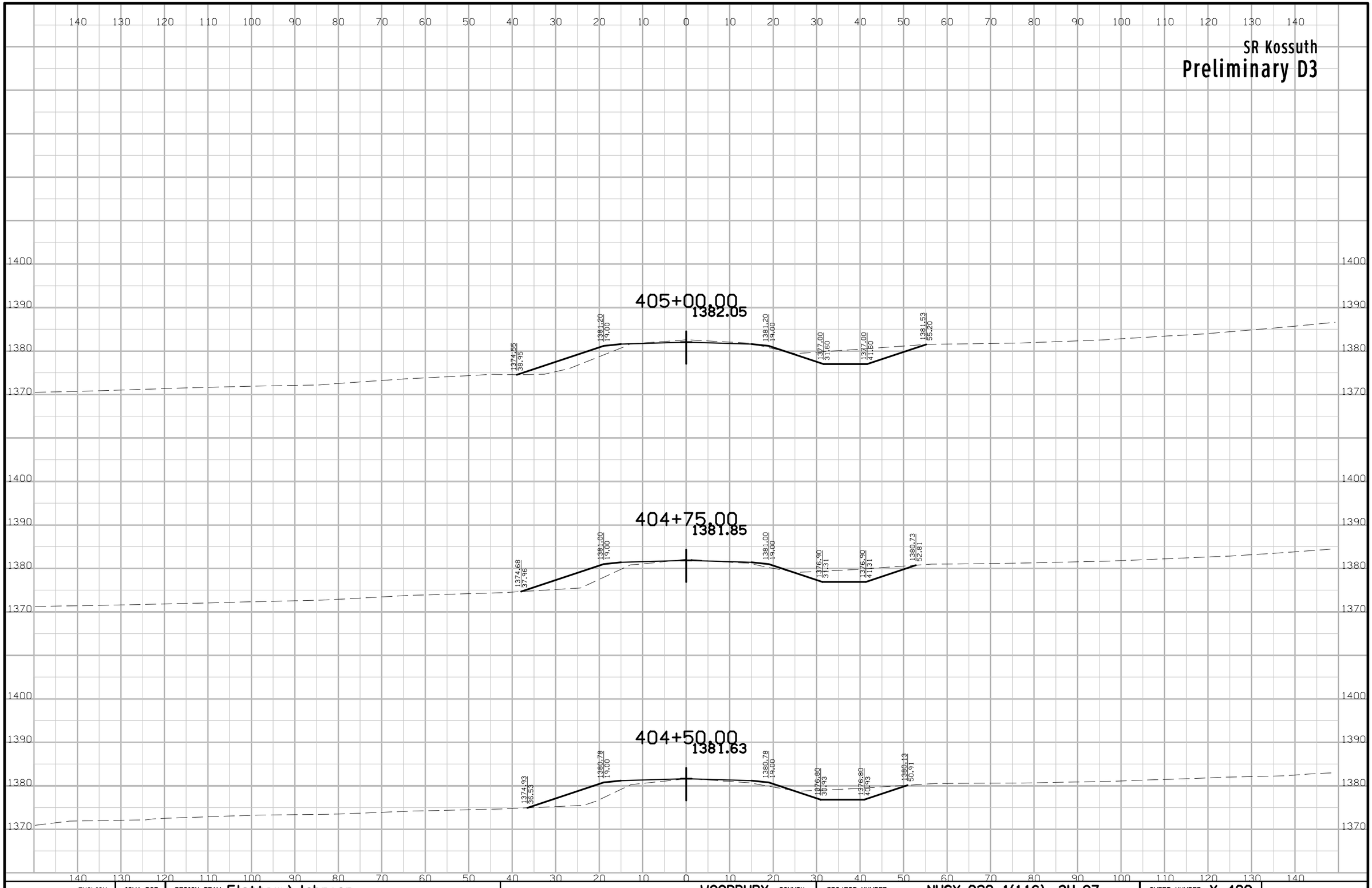


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.312

7:44:39 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_knox_280.sht

SR Kossuth

Preliminary D3

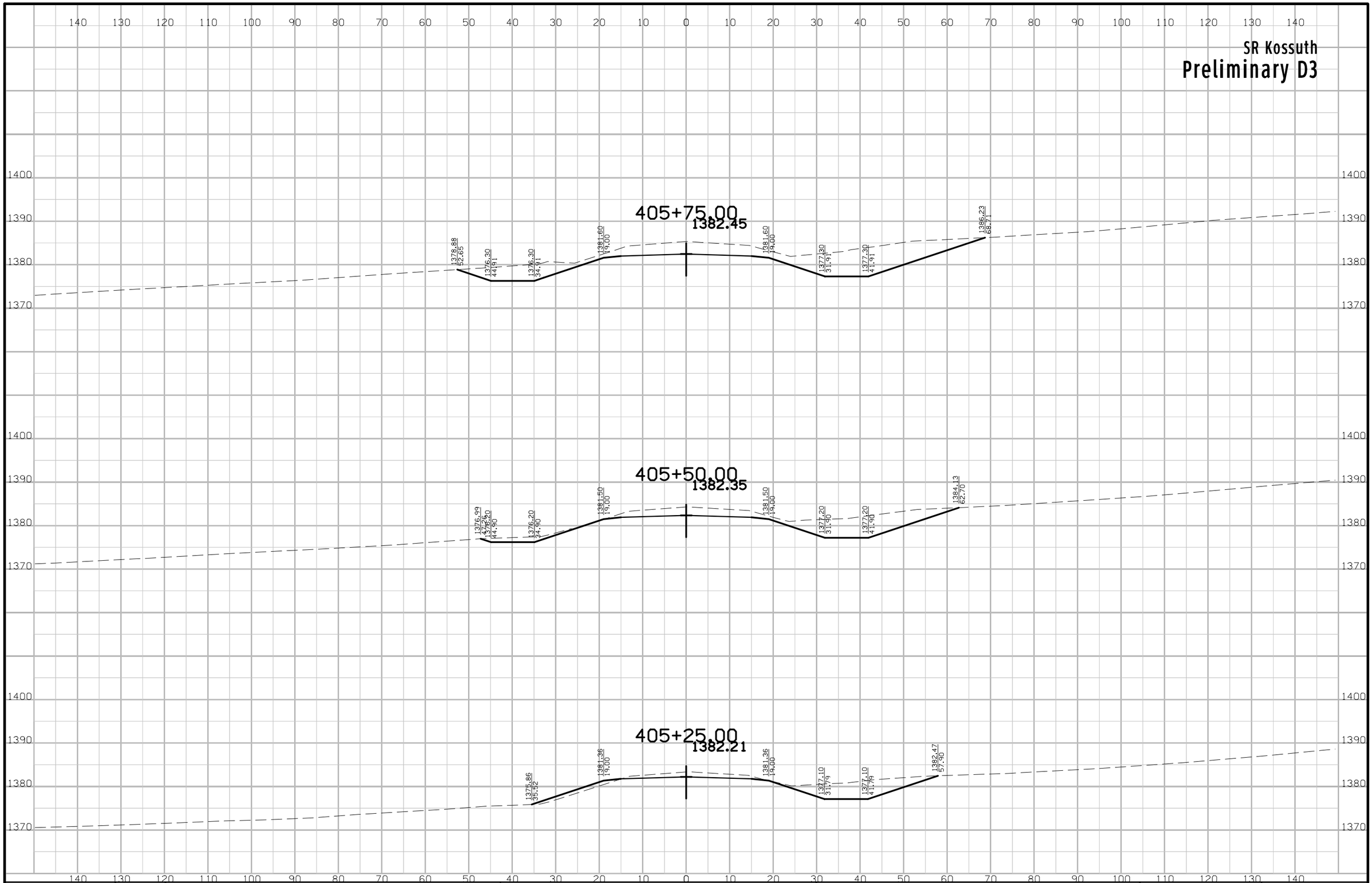


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.400

7:52:03 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D3

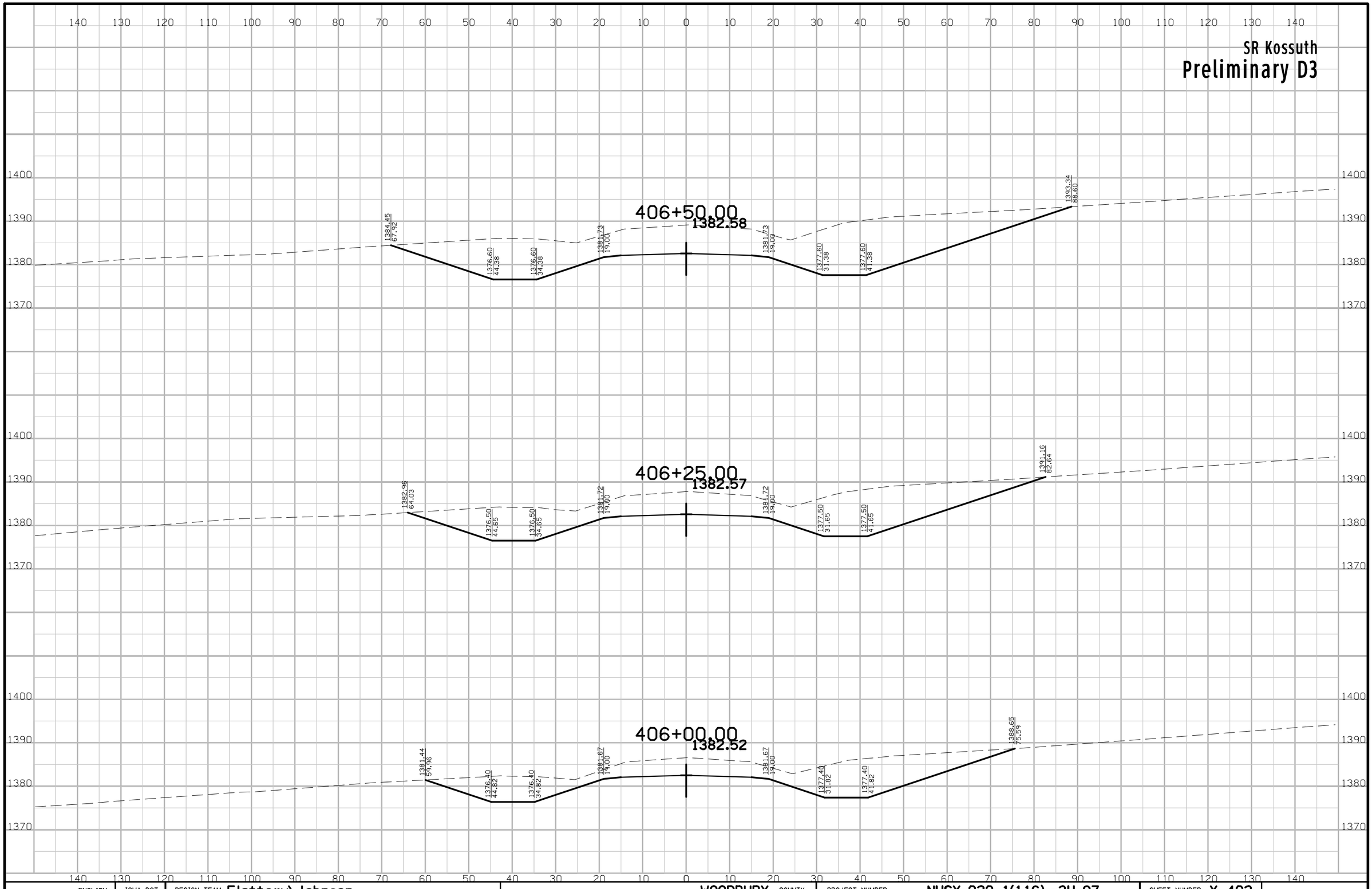


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.401

7:52:03 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D3

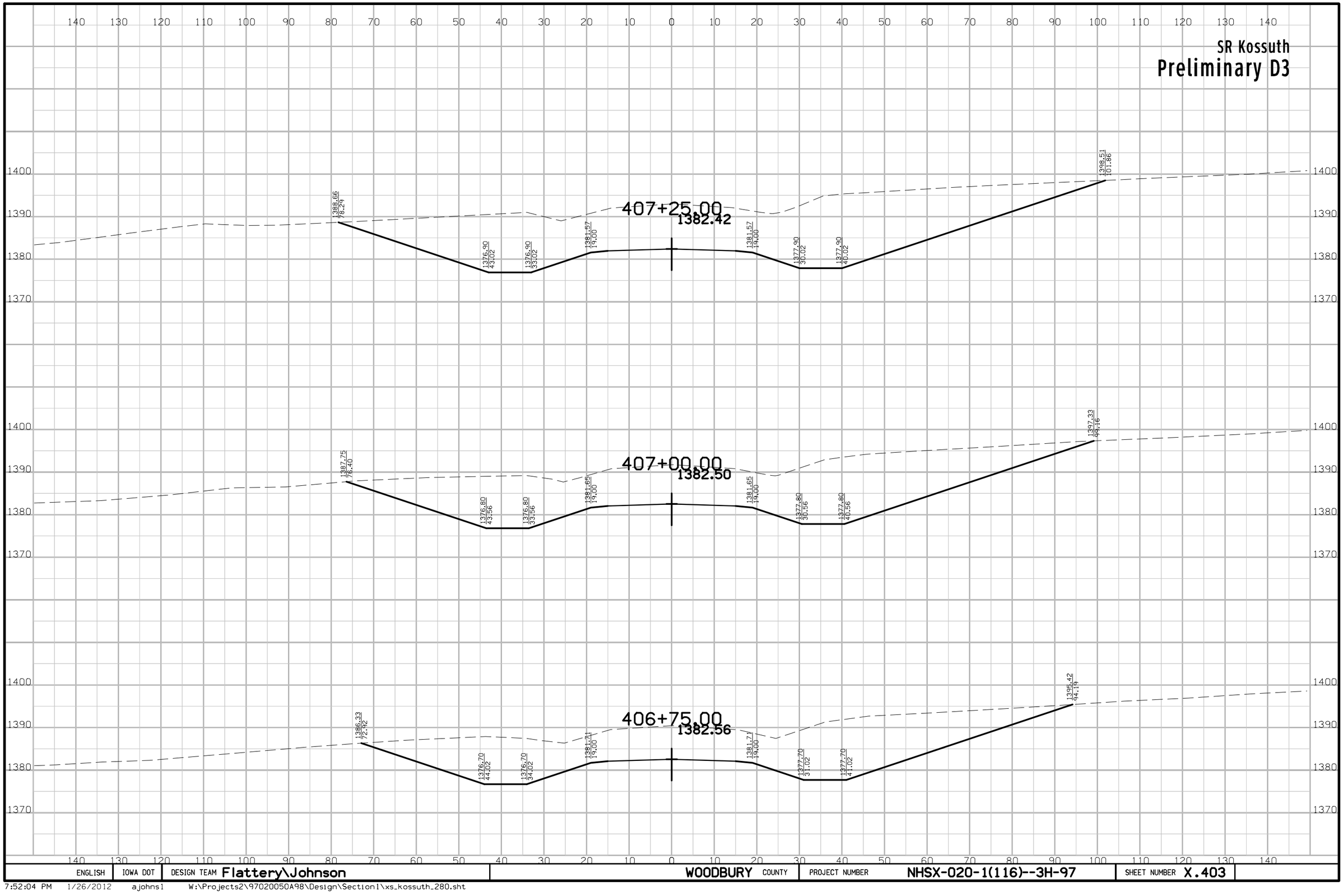


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.402

7:52:03 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D3

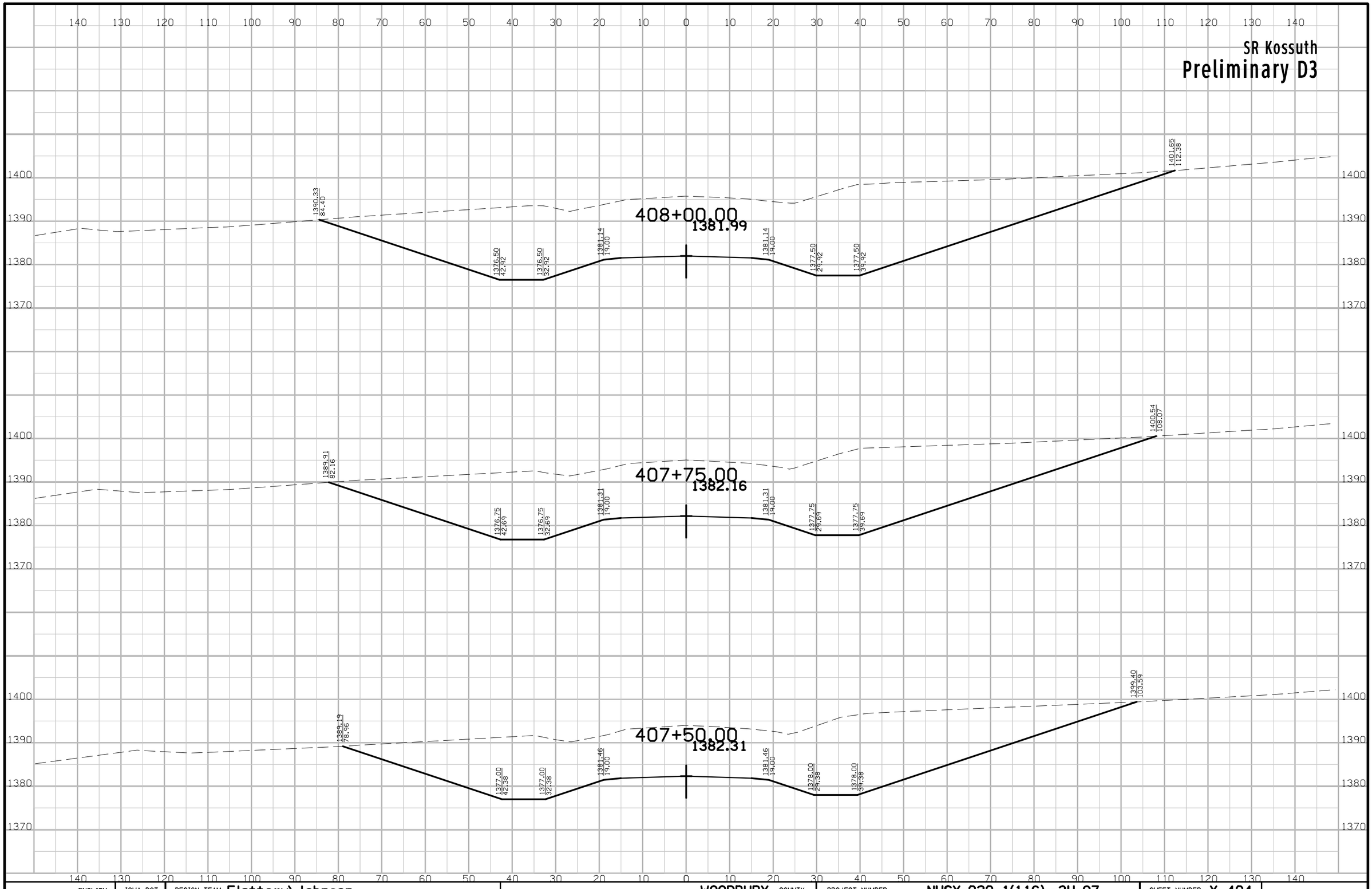


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.403

7:52:04 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D3

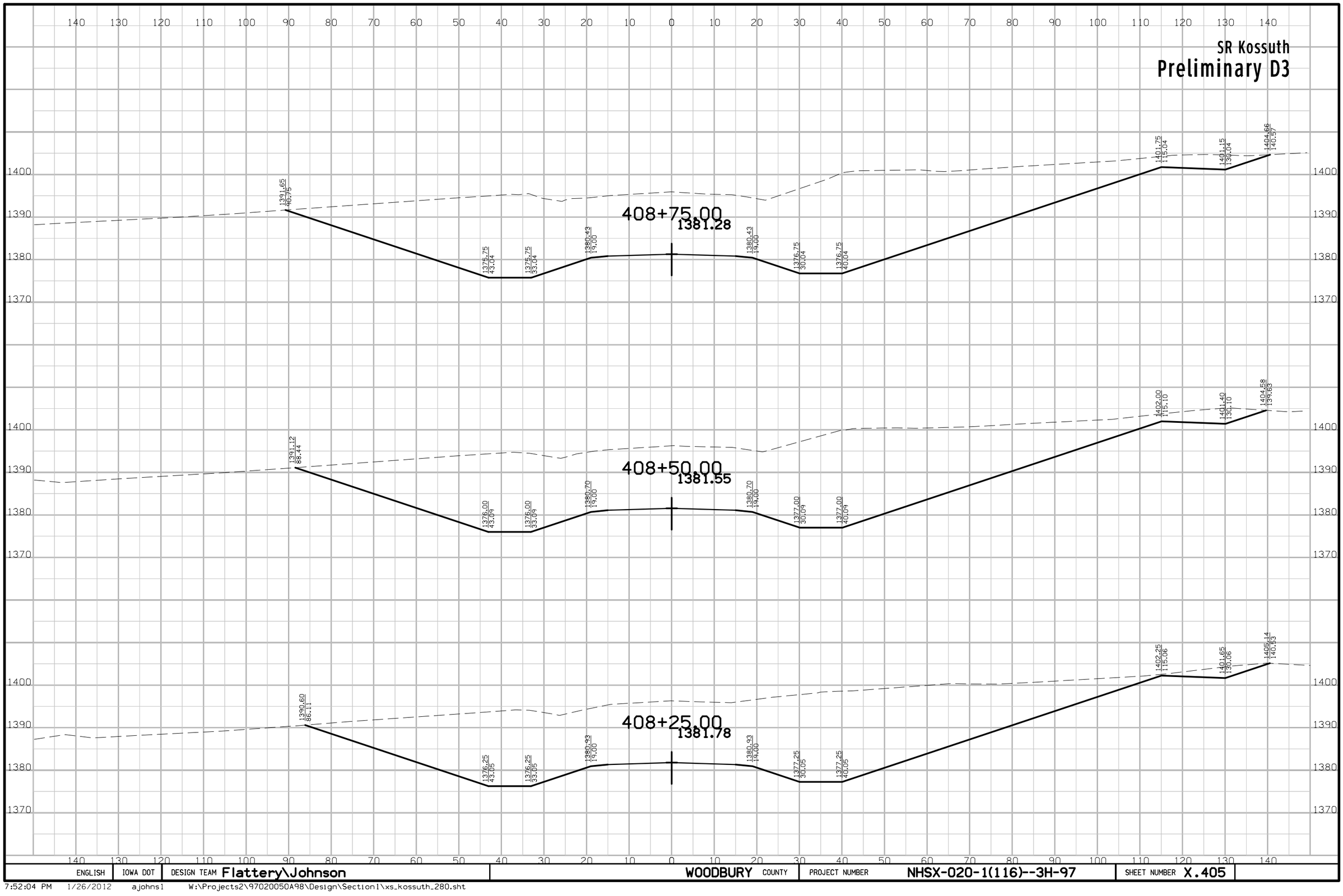


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.404

7:52:04 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D3

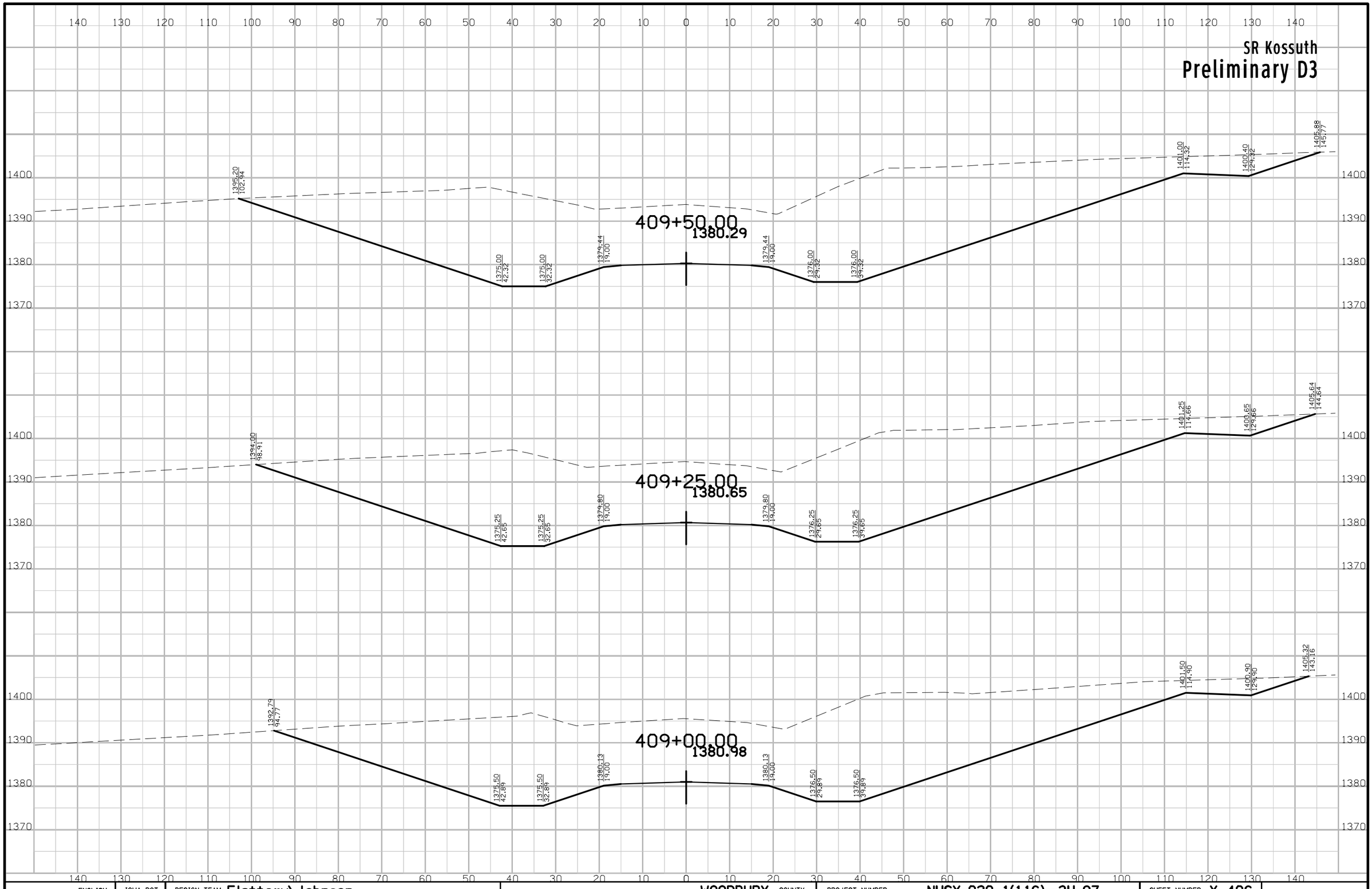


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.405

7:52:04 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D3

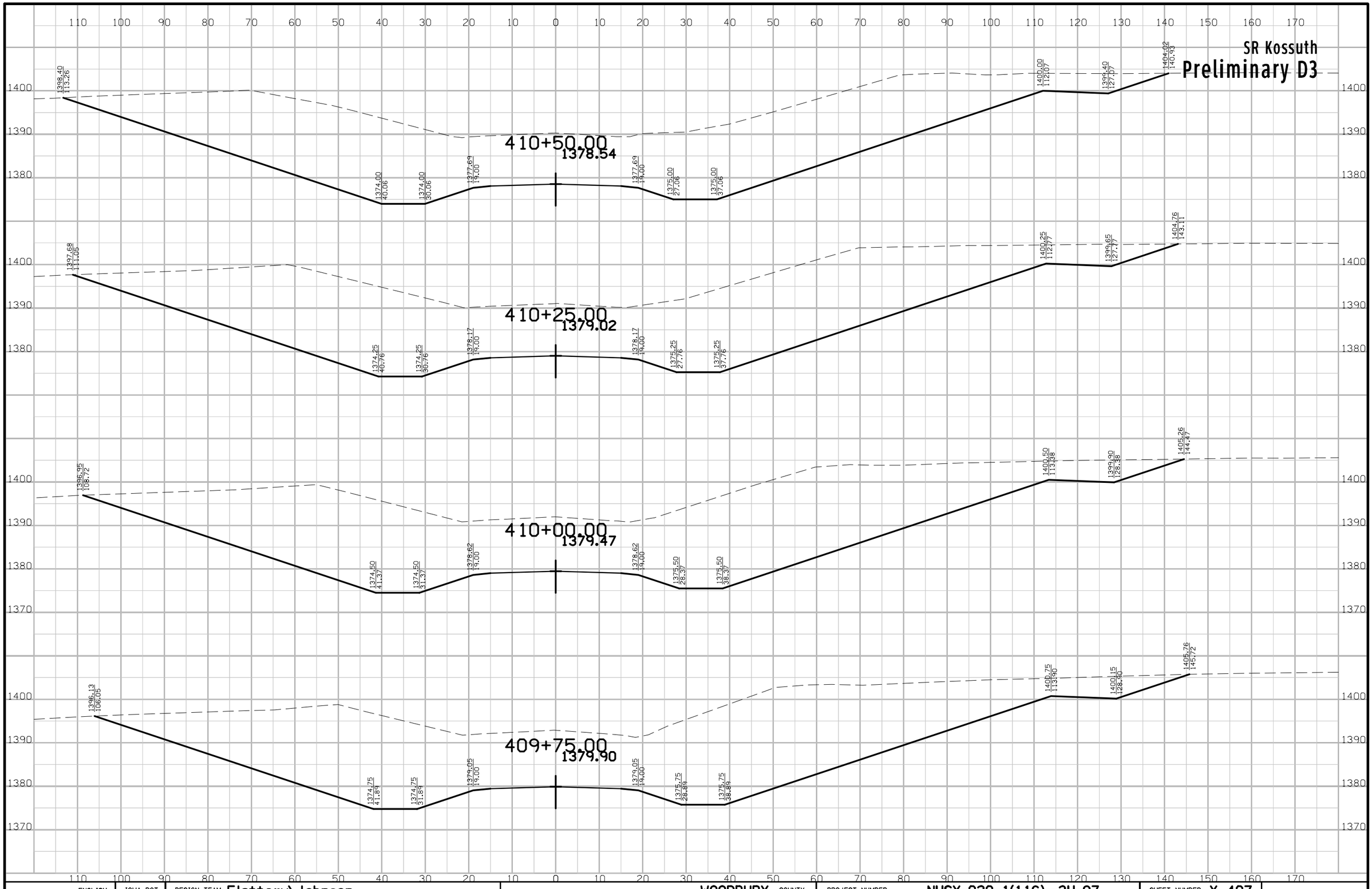


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.406

7:52:05 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

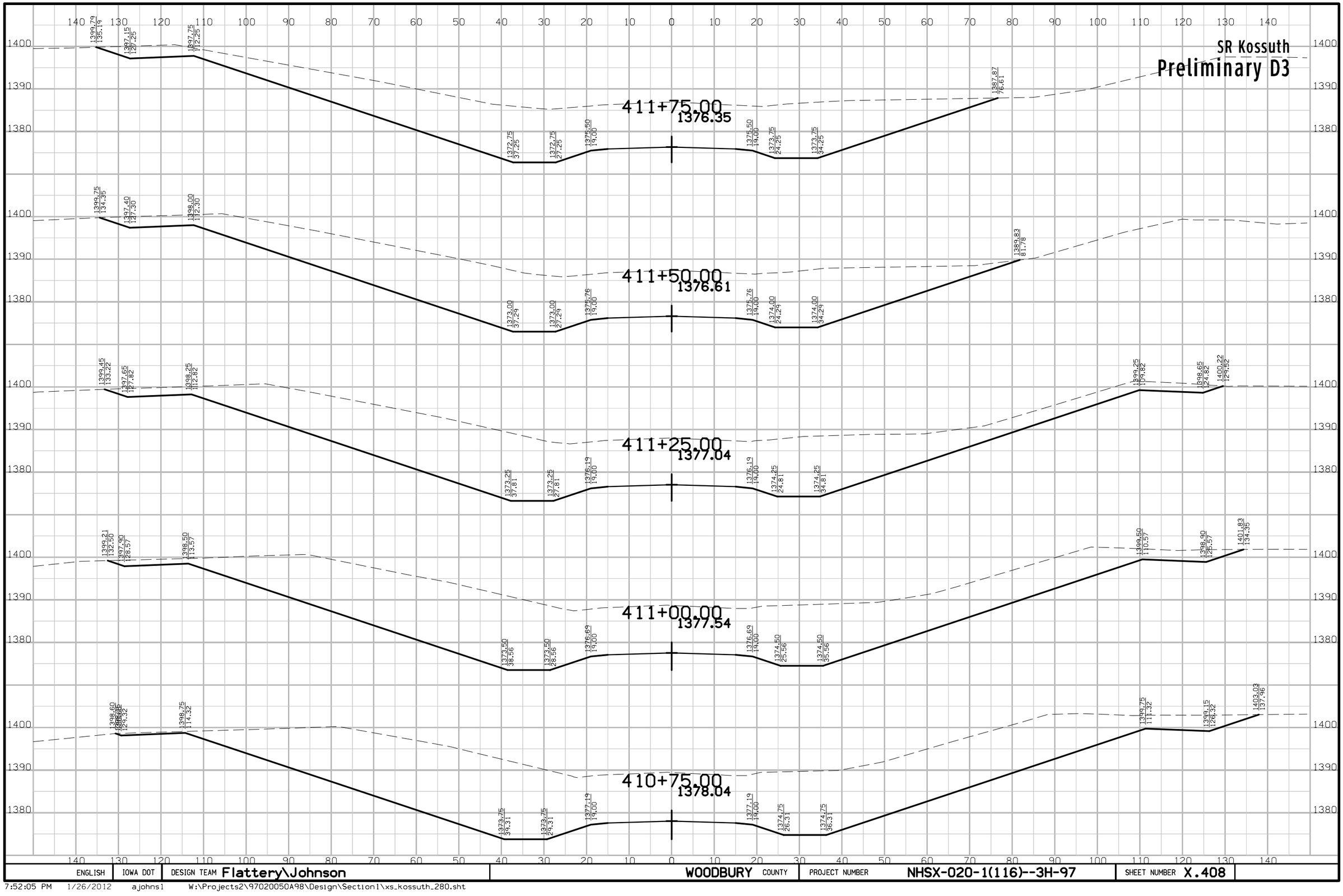
Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.407

SR Kossuth

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.408

7:52:05 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D3

413+25.00
1378.04

1377.83 66.27

1377.60 59.13

413+00.00
1377.36

1376.69 23.20

1376.63 24.76

412+75.00
1376.85

1384.79 90.94

1371.75 51.81

1371.75 41.81

1376.00 19.00

1376.00 19.00

1372.75 37.46

1372.75 47.46

1385.57 85.41

412+50.00
1376.49

1384.41 79.73

1372.00 42.50

1372.00 32.50

1375.64 19.00

1375.64 19.00

1373.00 24.18

1373.00 39.18

1385.09 75.46

412+25.00
1376.29

1384.07 89.02

1372.25 38.56

1372.25 28.56

1375.44 19.00

1375.44 19.00

1373.25 25.56

1373.25 35.56

1386.63 75.69

412+00.00
1376.24

1396.76 110.44

1372.50 37.67

1372.50 27.67

1375.39 19.00

1375.39 19.00

1373.50 24.67

1373.50 34.67

1387.57 76.89

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.409

7:52:06 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D3

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

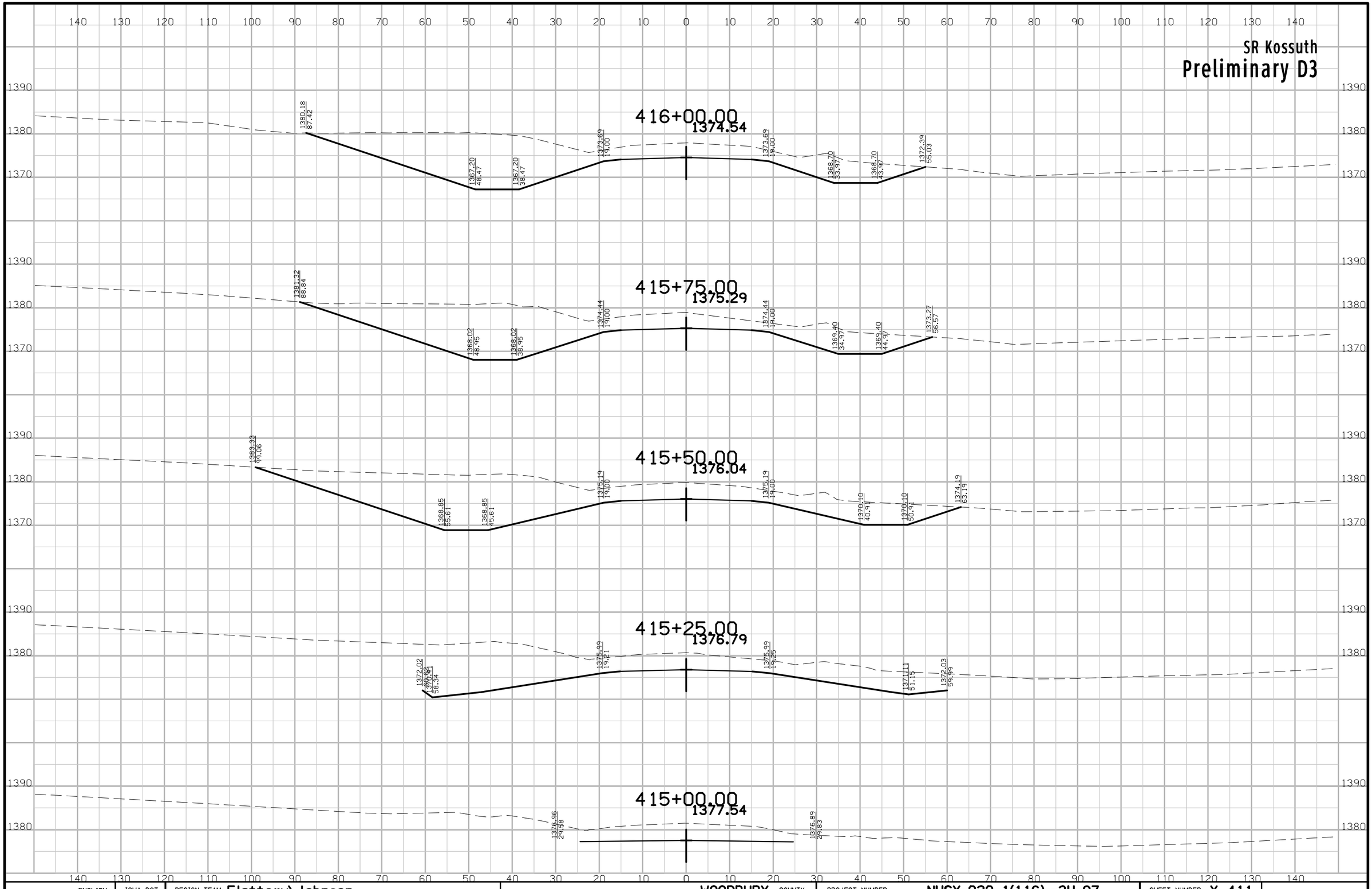
413+50.00
1378.40

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.410

7:52:06 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D3

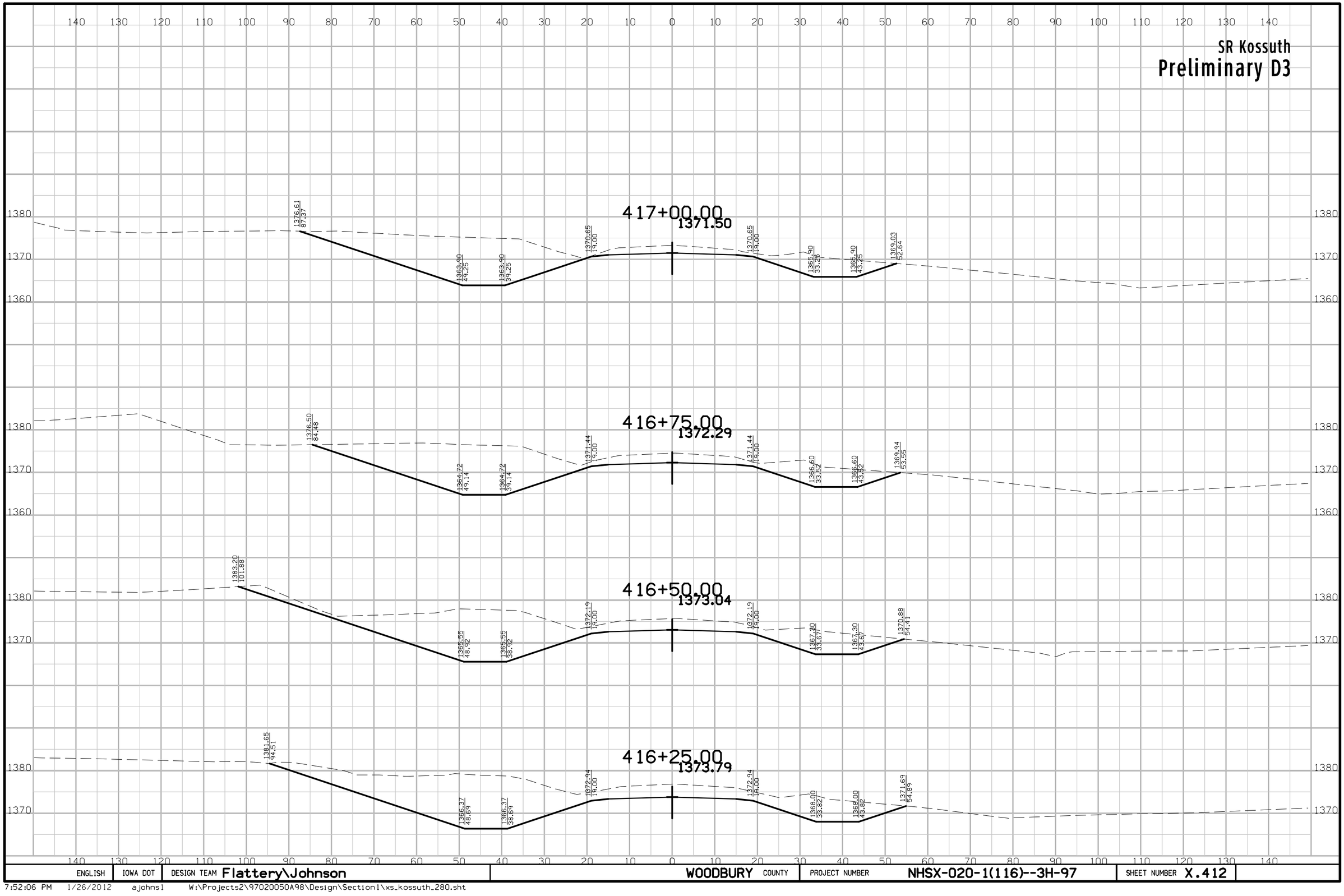


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.411

7:52:06 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D3

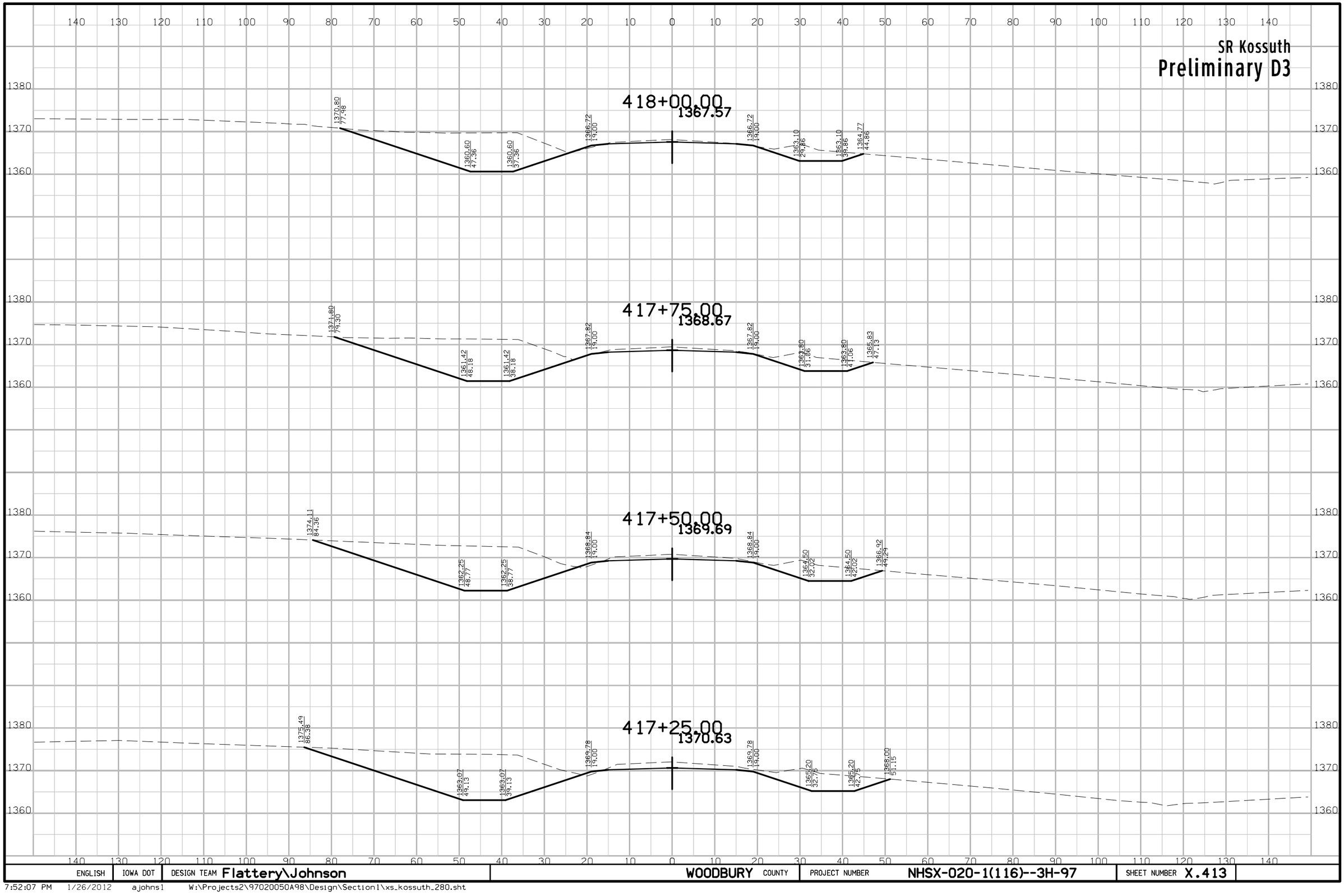


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.412

7:52:06 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D3

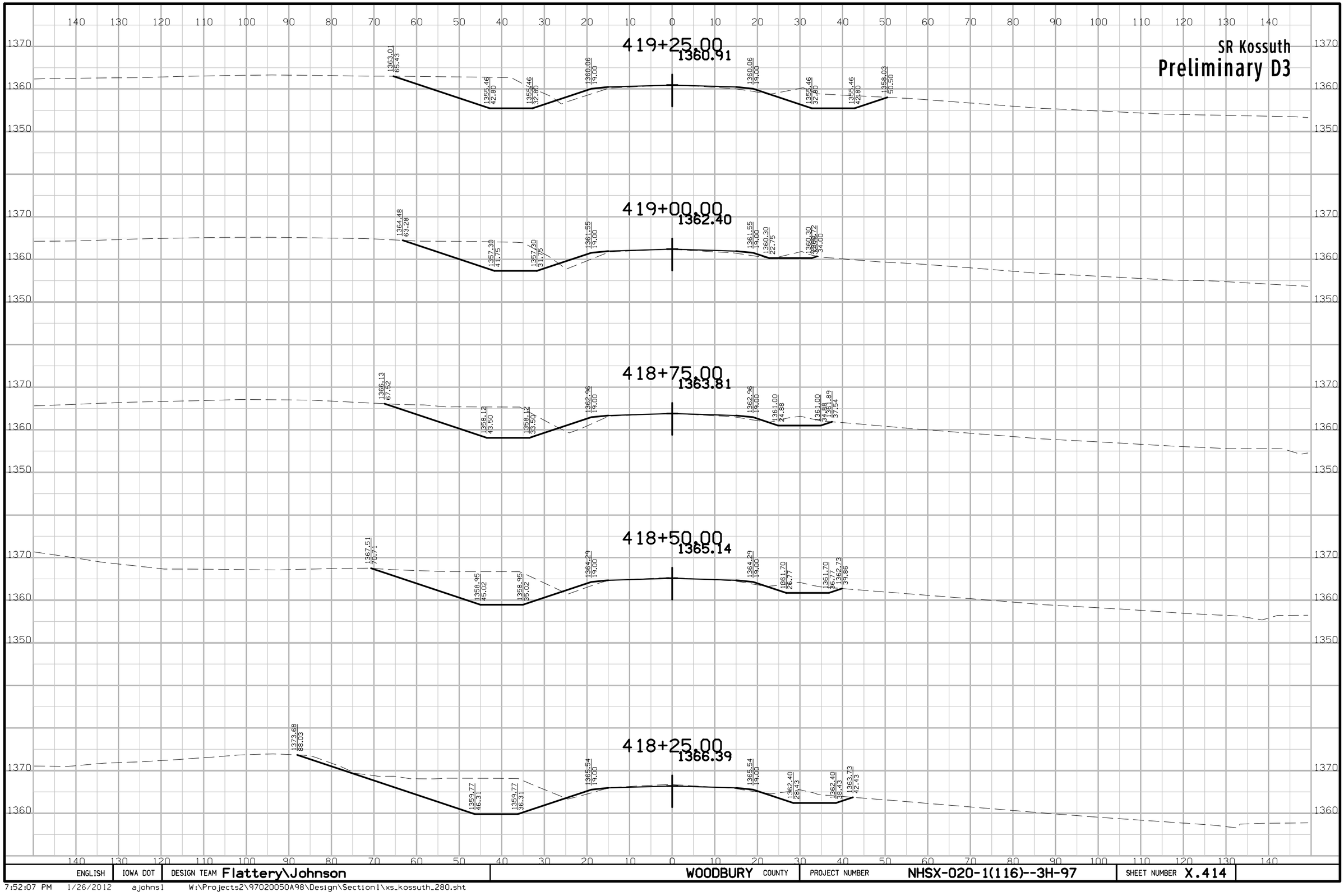


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.413

7:52:07 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Kossuth

Preliminary D3

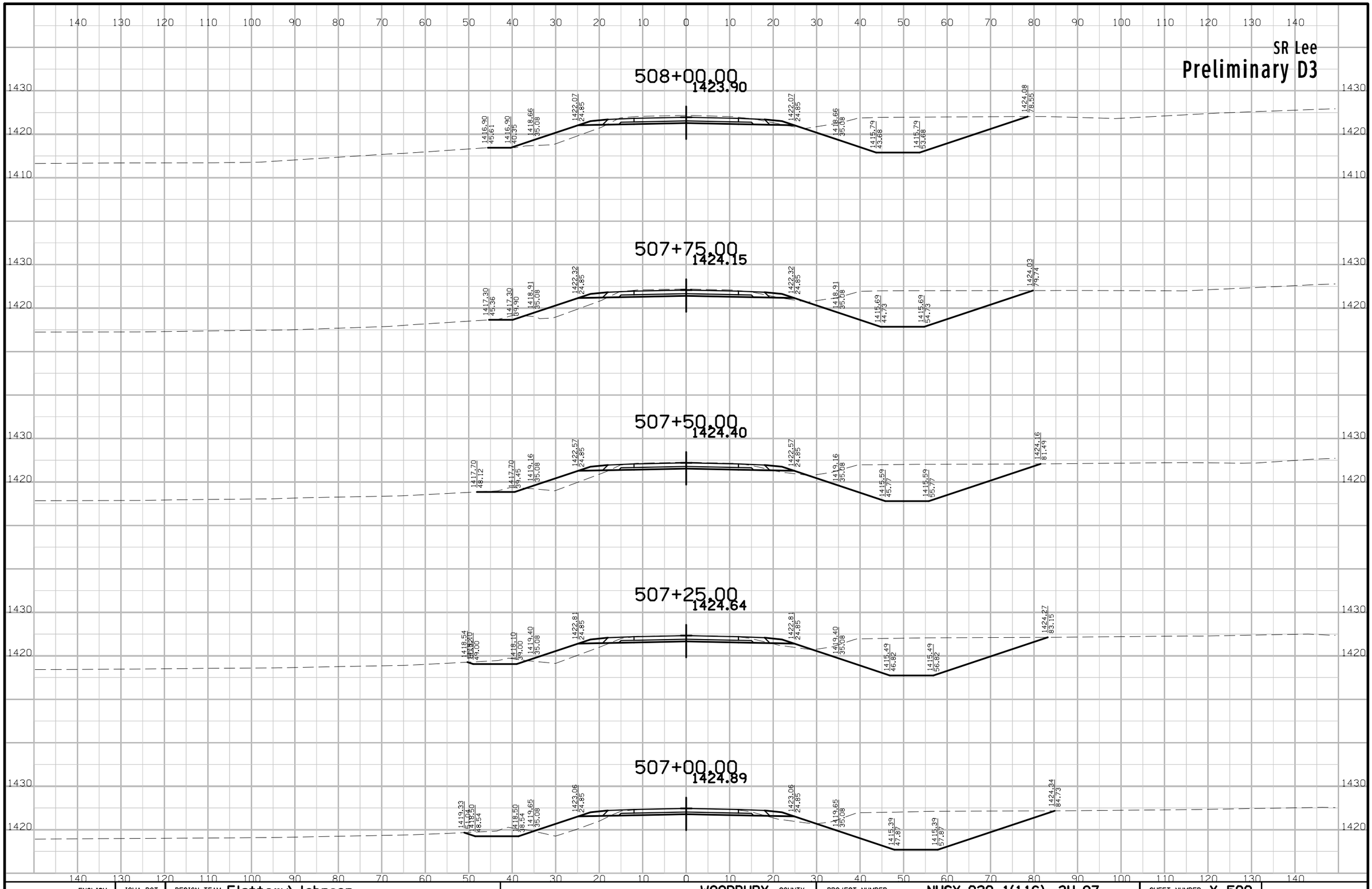


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.414

7:52:07 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_kossuth_280.sht

SR Lee

Preliminary D3

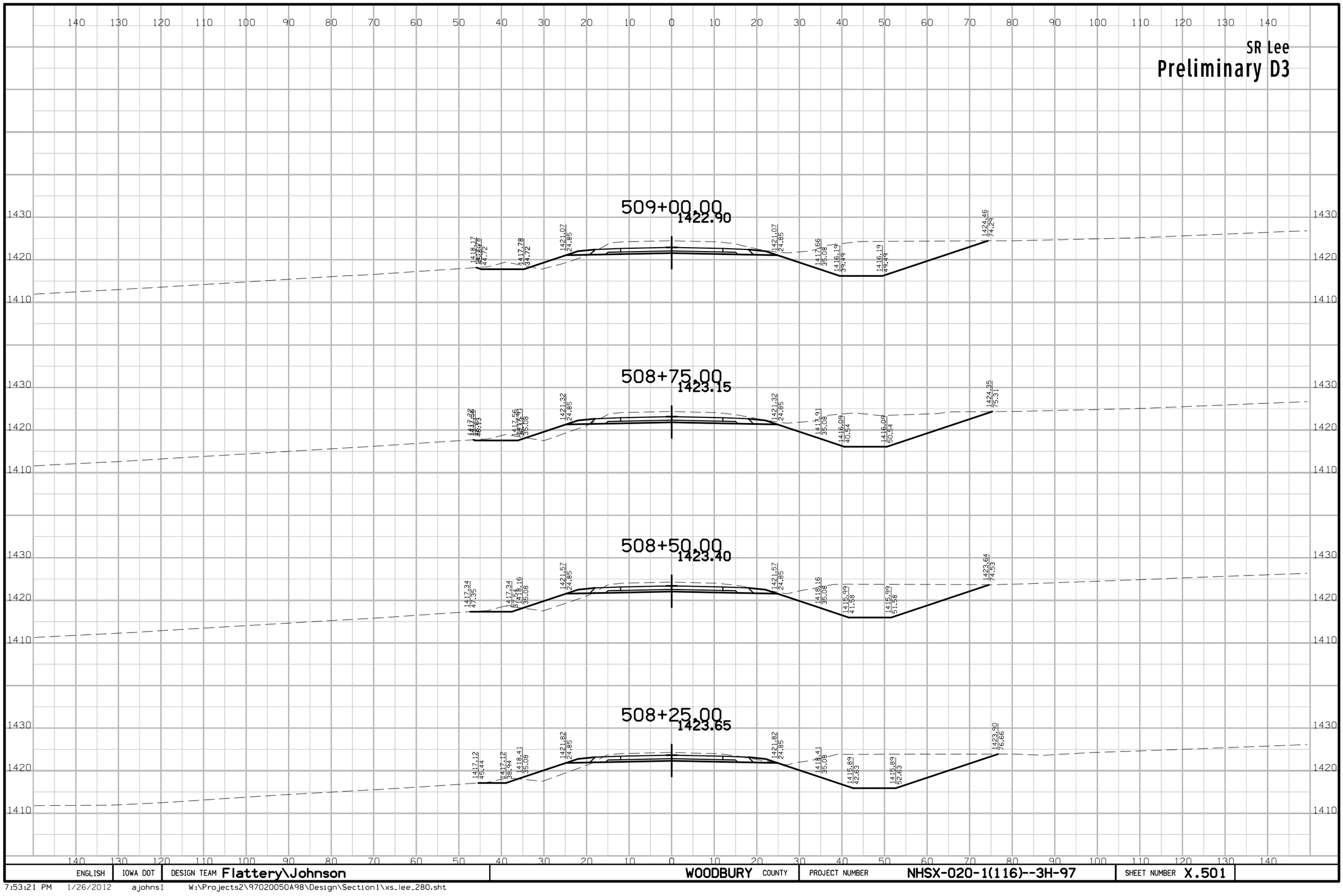


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.500

7:53:20 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lee_280.sht

SR Lee

Preliminary D3

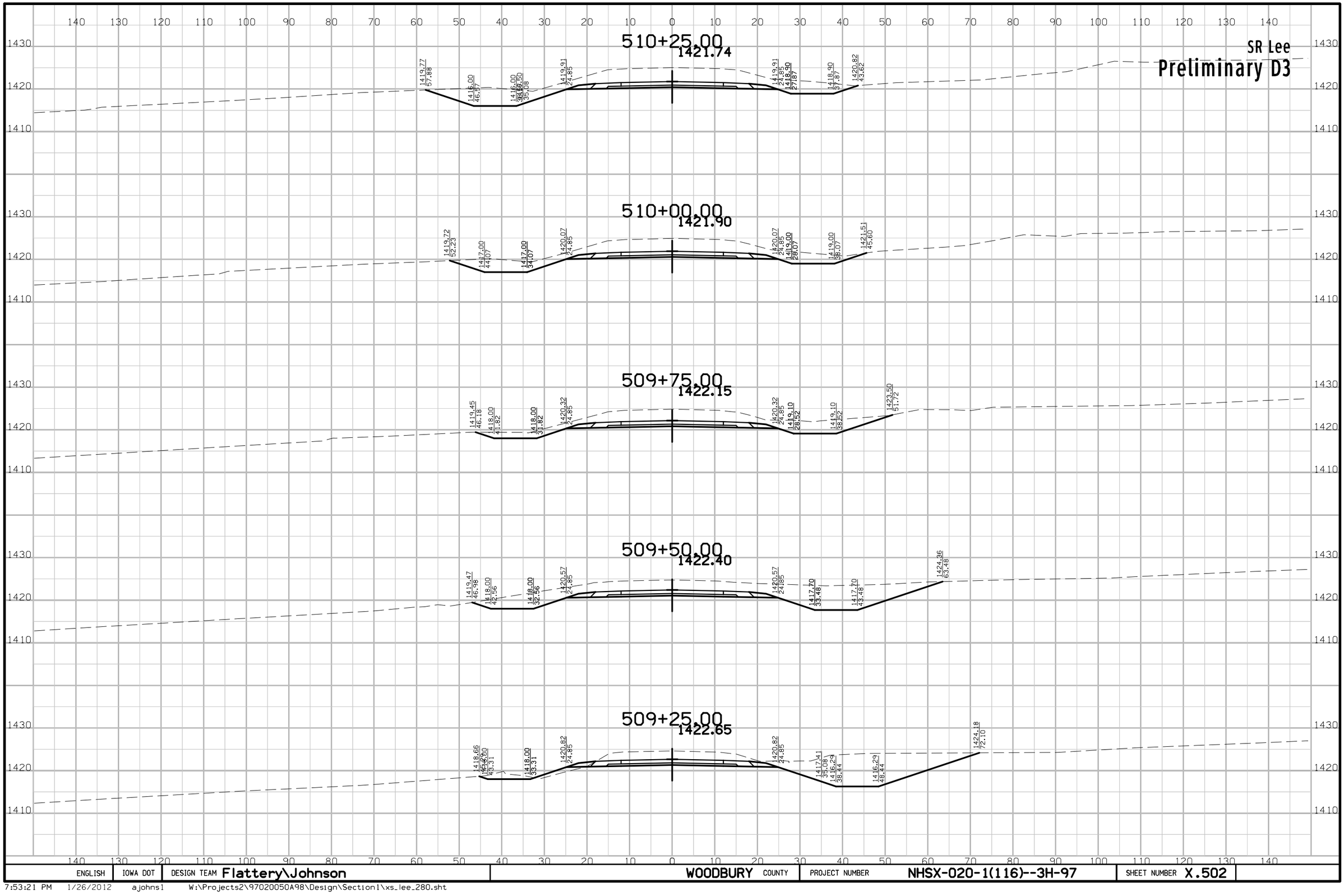


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.501

7:53:21 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lee_280.sht

SR Lee

Preliminary D3

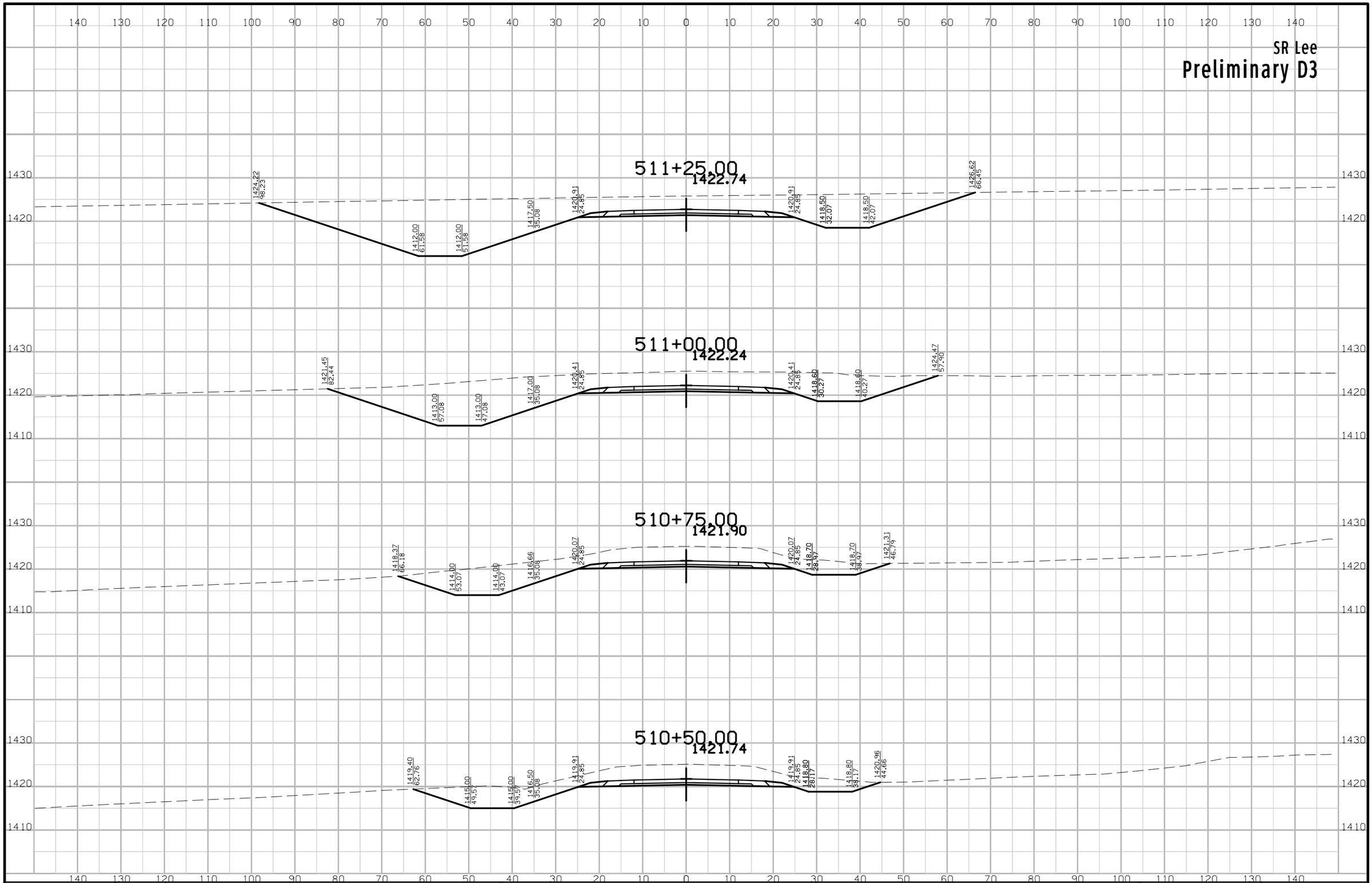


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.502

7:53:21 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lee_280.sht

SR Lee

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.503

7:53:21 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lee_280.sht

SR Lee

Preliminary D3

512+25.00
1424.02

512+00.00
1424.02

511+75.00
1424.01

511+50.00
1423.40

1424.70
64.70

1418.16
45.08

1418.16
35.08

1421.57
24.85

1421.57
24.85

1418.16
35.08

1418.16
45.08

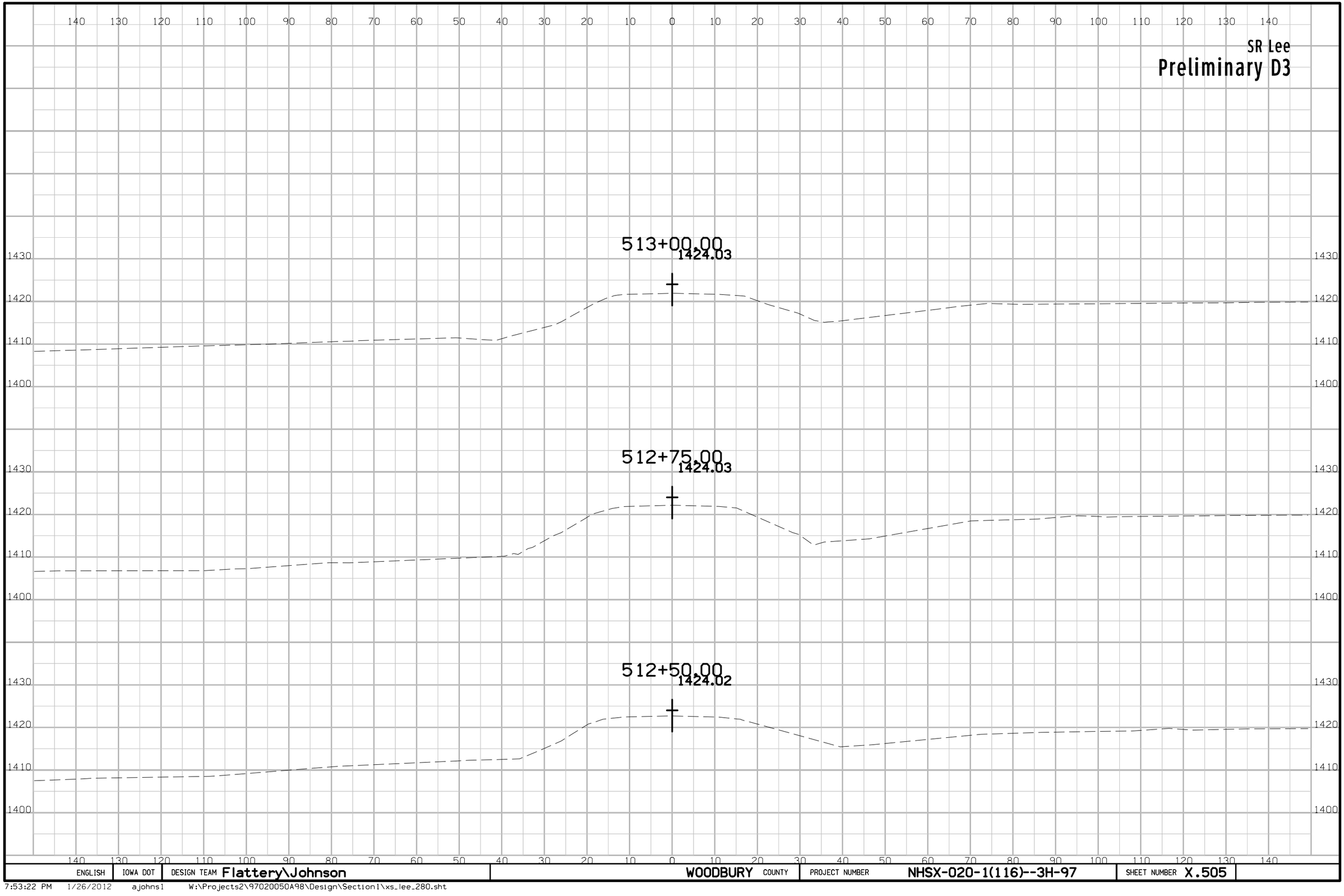
1426.50
70.10

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.504

7:53:21 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lee_280.sht

SR Lee

Preliminary D3

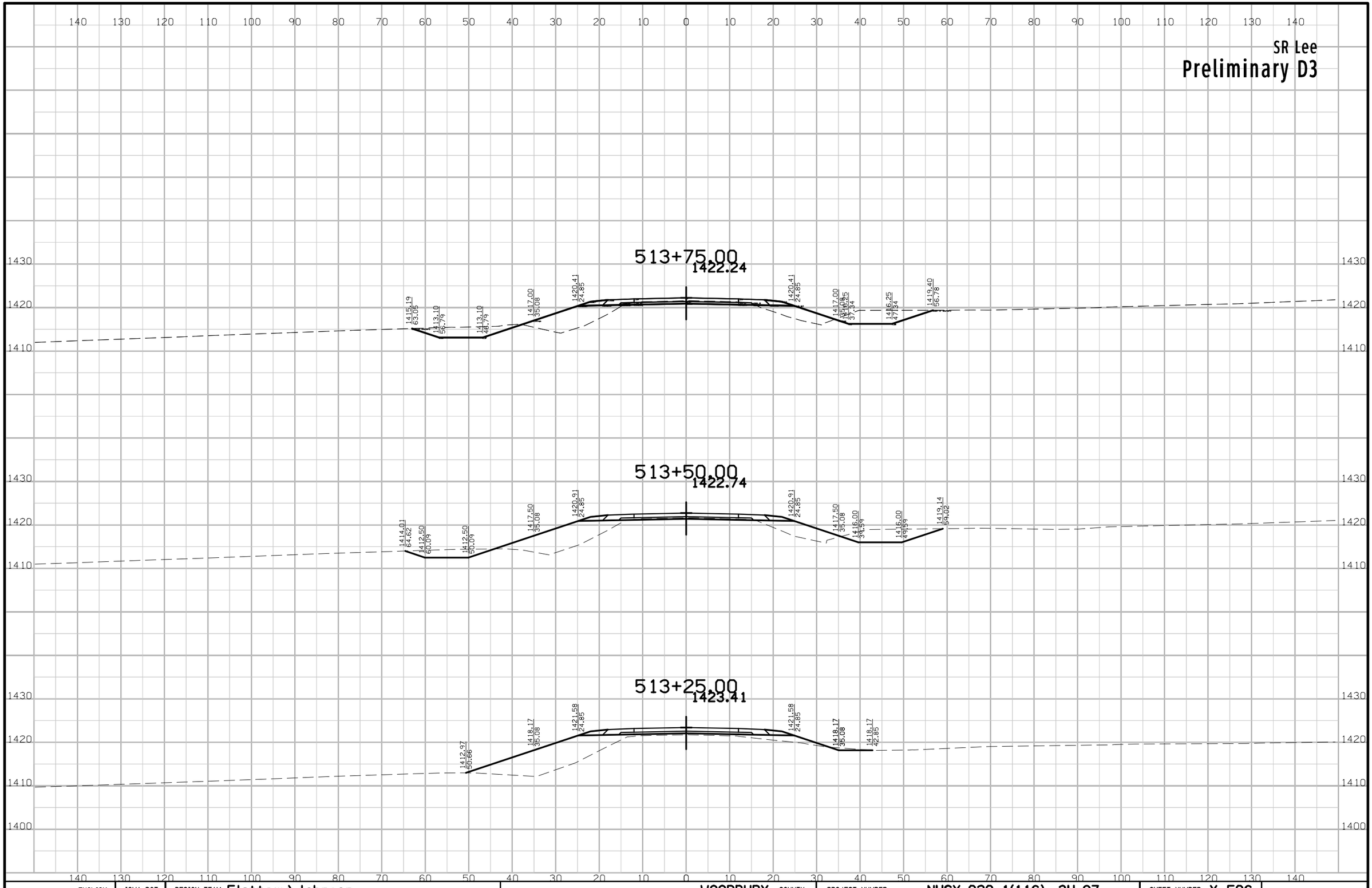


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.505

7:53:22 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lee_280.sht

SR Lee

Preliminary D3

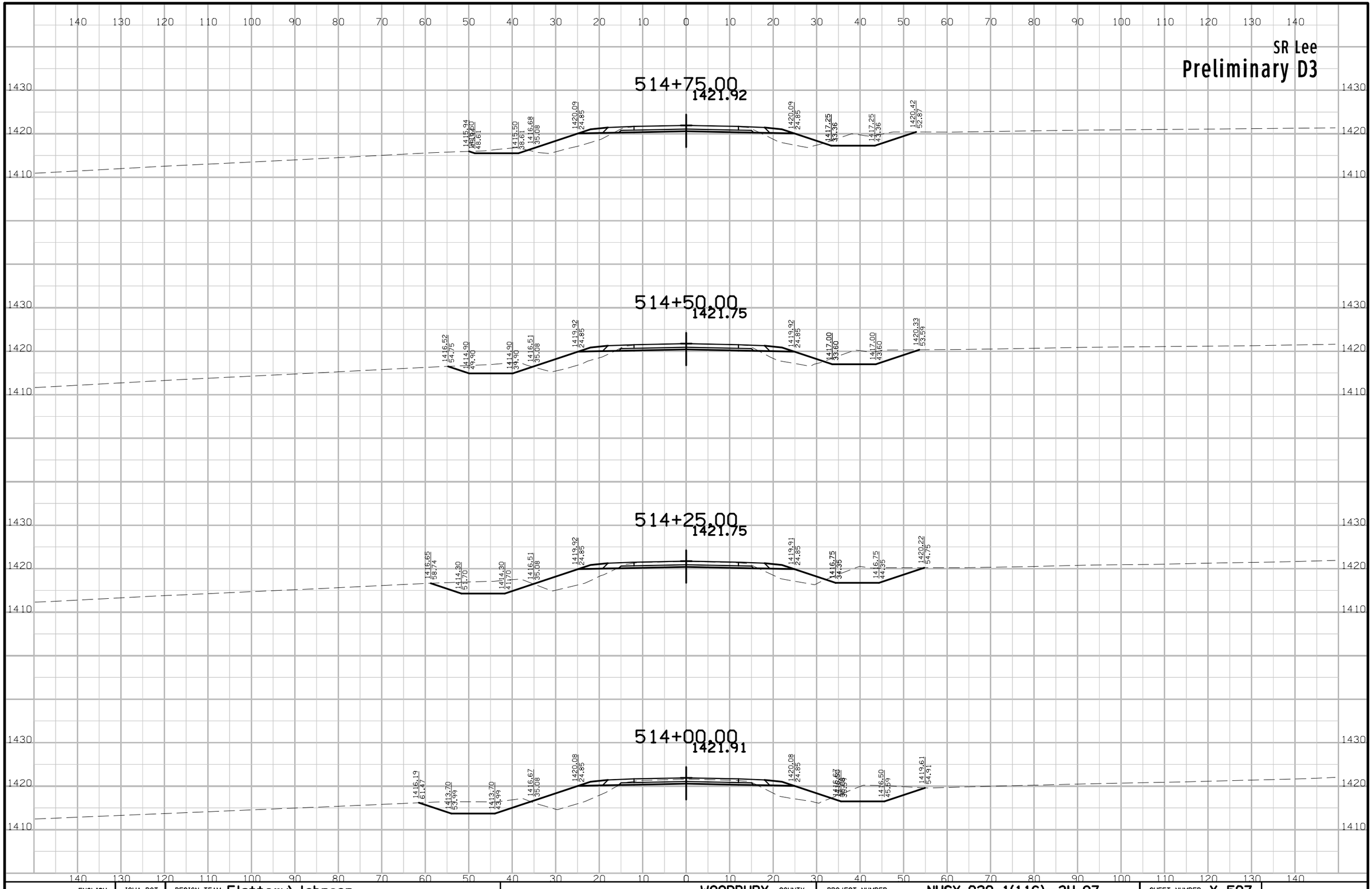


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.506

7:53:22 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lee_280.sht

SR Lee

Preliminary D3

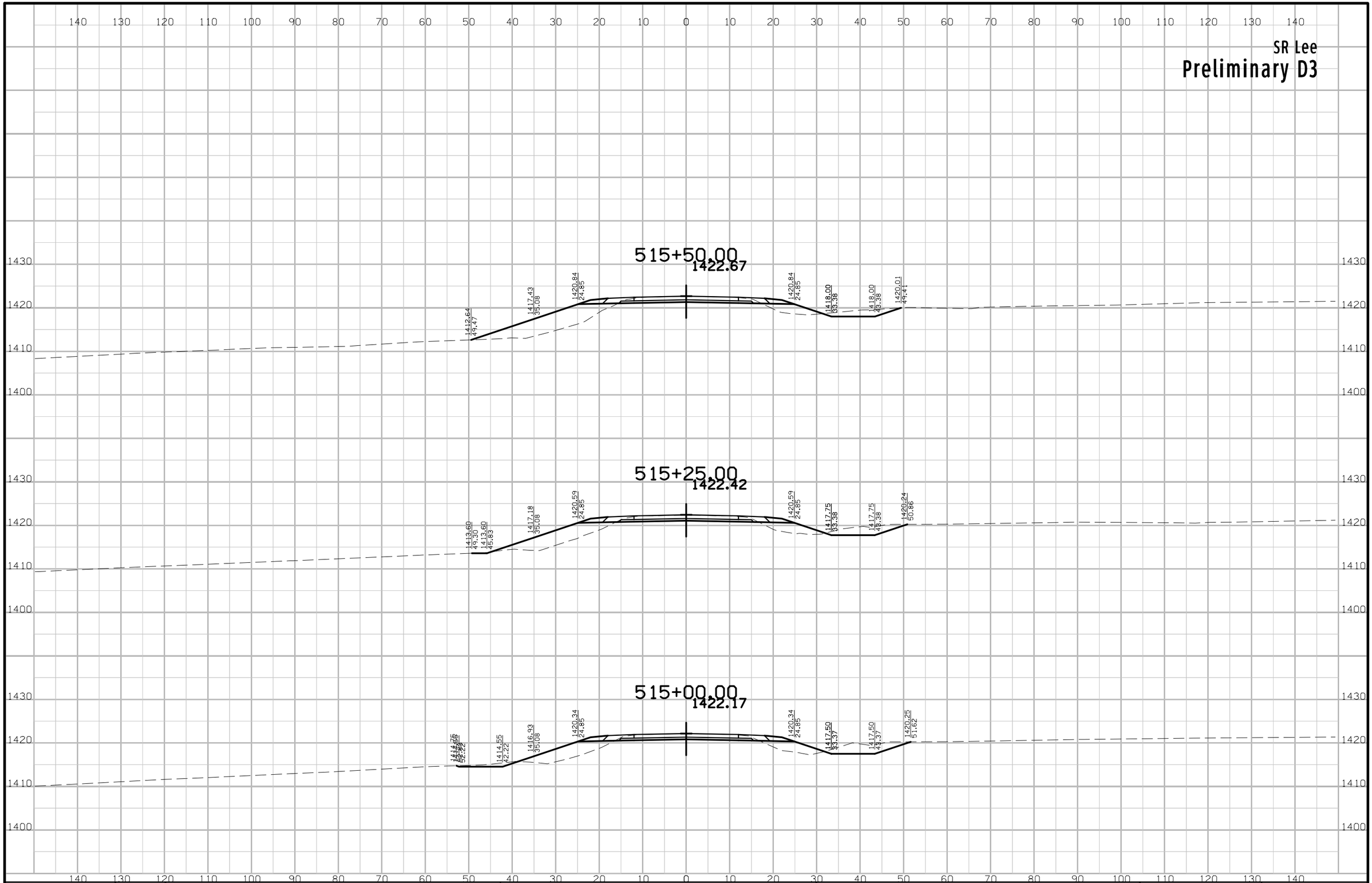


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.507

7:53:22 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lee_280.sht

SR Lee

Preliminary D3

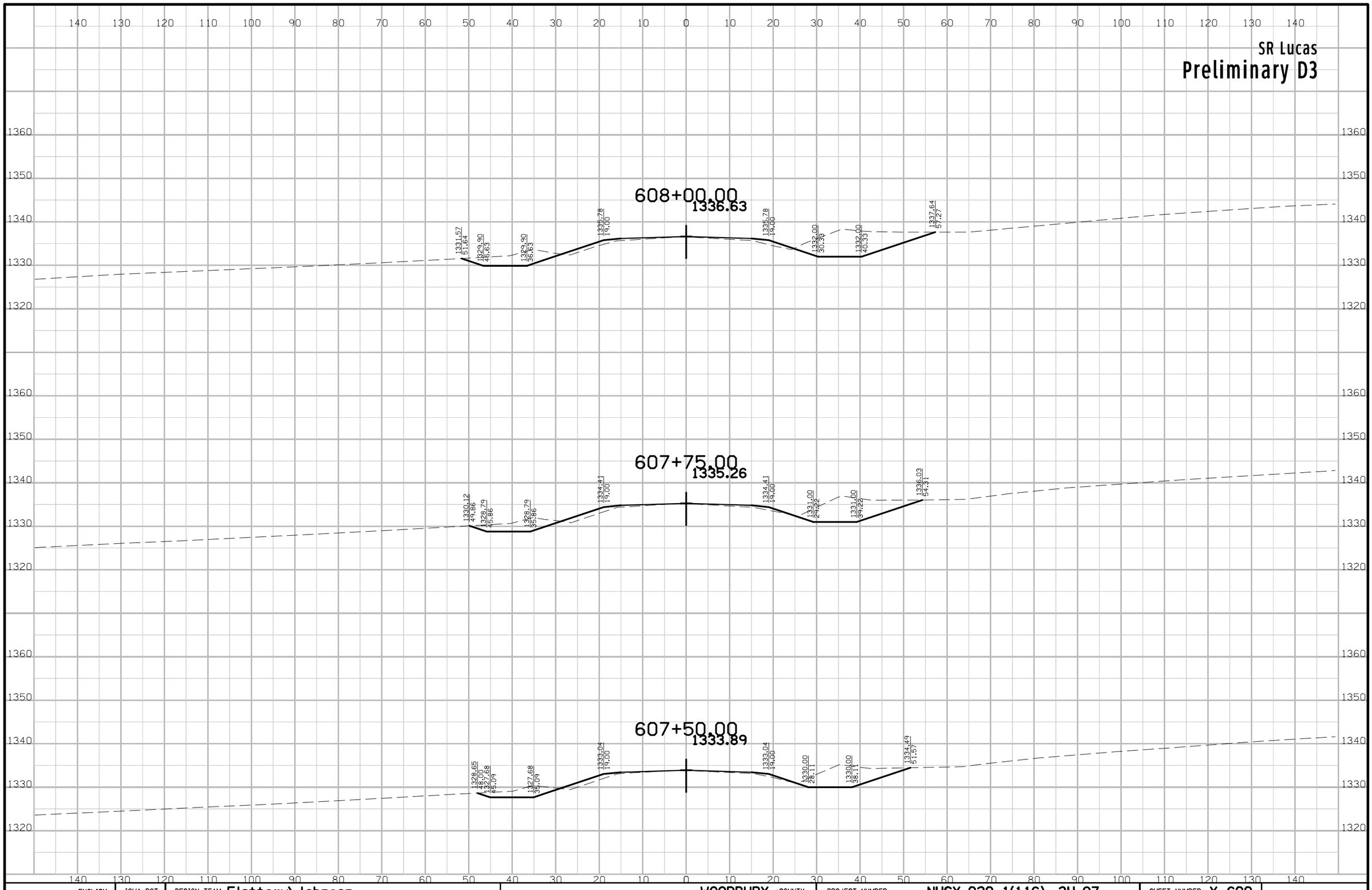


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.508

7:53:22 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lee_280.sht

SR Lucas

Preliminary D3

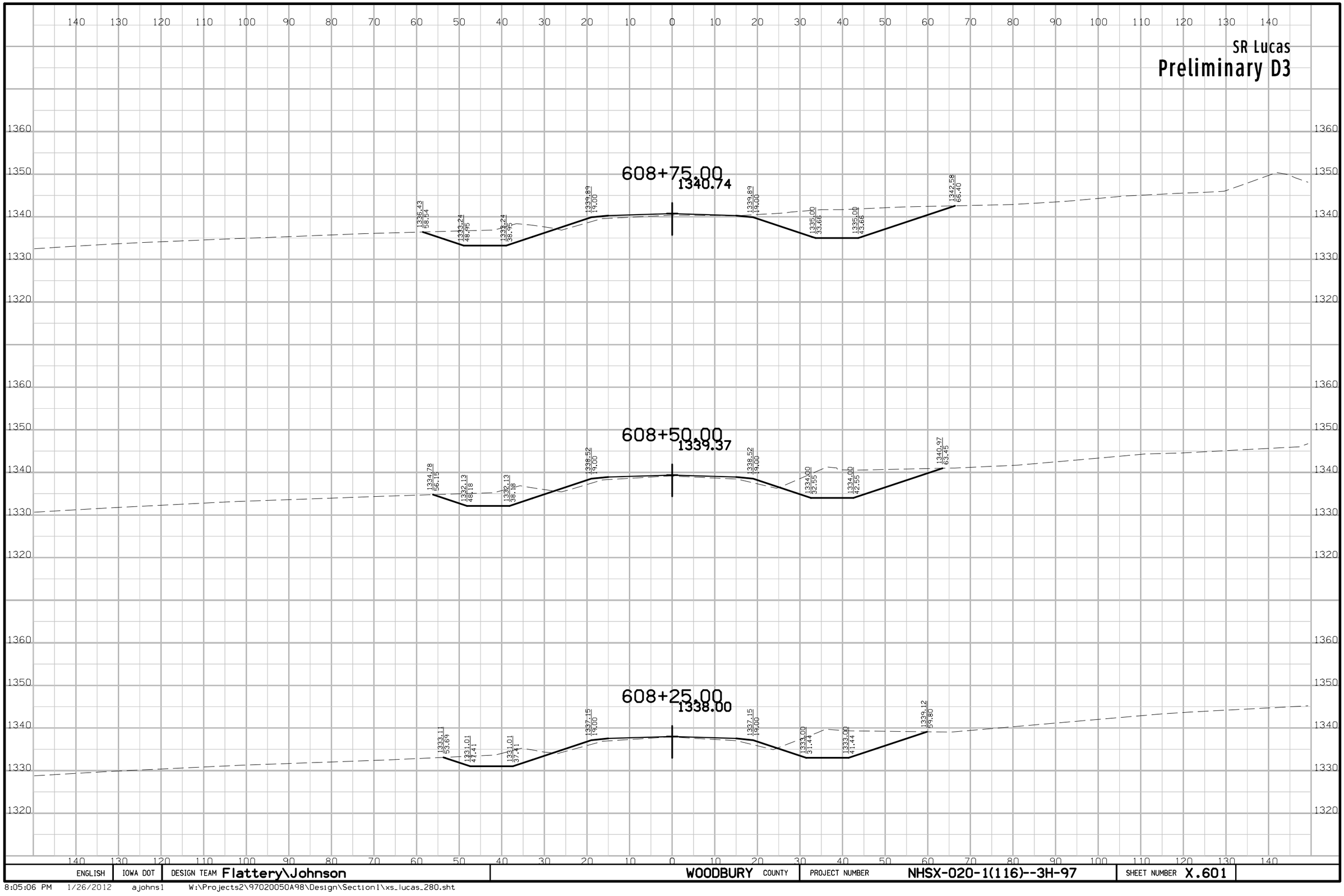


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.600

8:05:05 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

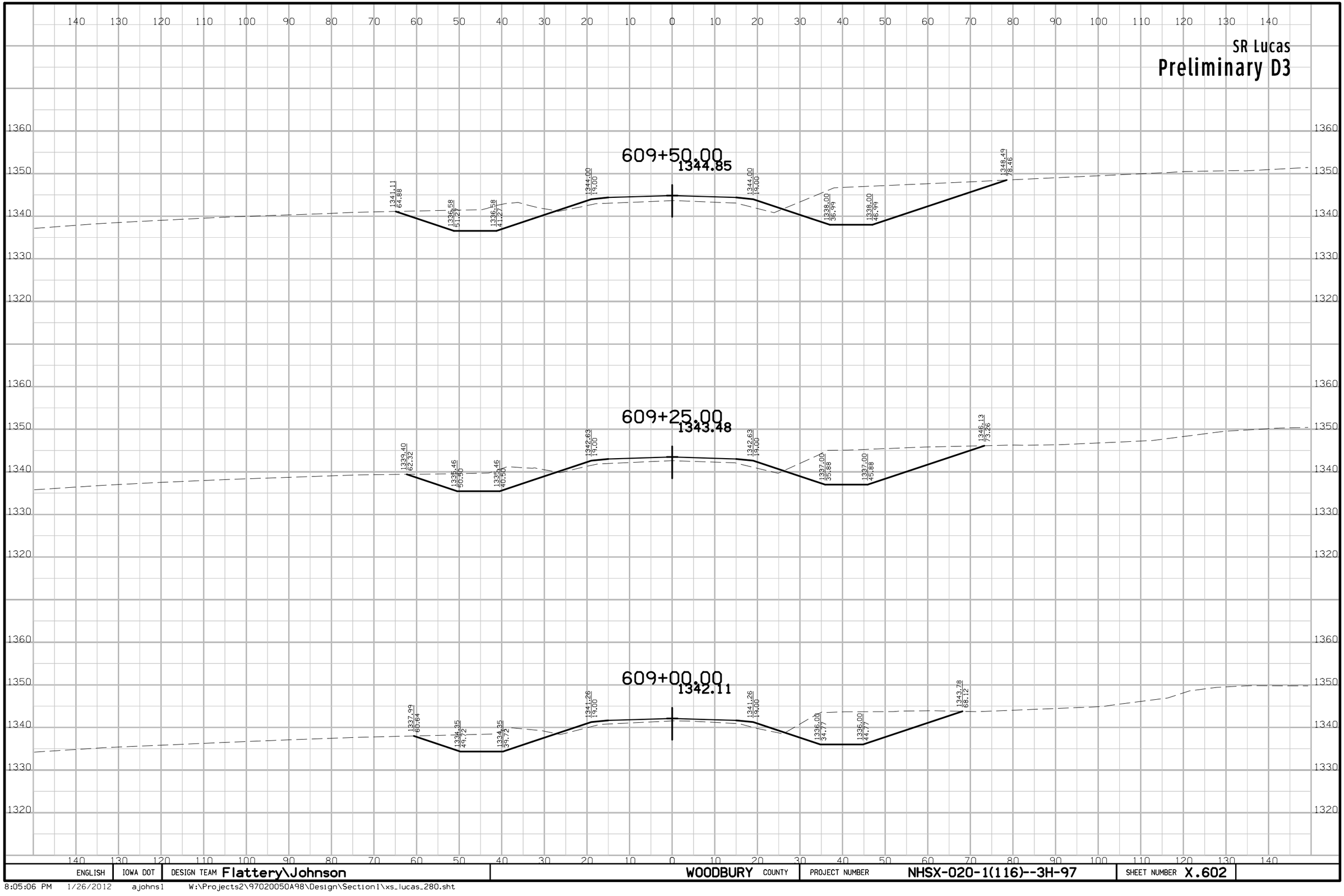


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.601

8:05:06 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

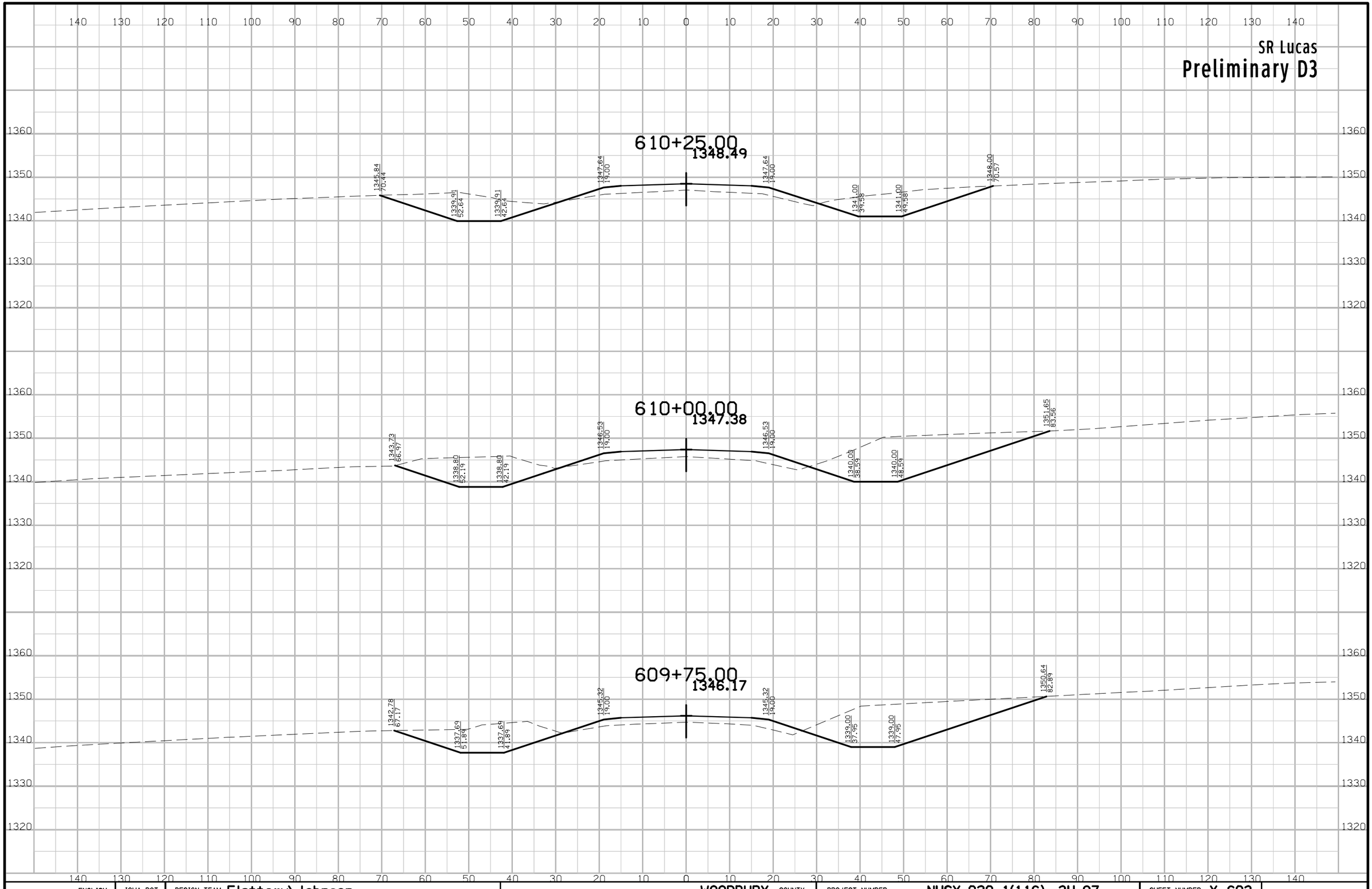


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.602

8:05:06 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.603

8:05:06 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

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

611+25.00
1351.96

611+00.00
1351.21
1350.66
28.18
1350.51
28.02

610+75.00
1350.41
1345.05
57.43
1345.00
47.43
1349.58
19.82
1349.60
19.12
1345.19
46.87
1345.54
57.21

610+50.00
1349.50
1341.03
60.30
1341.03
50.30
1348.65
19.00
1348.65
19.00
1342.00
46.77
1342.00
56.77

1360
1350
1340
1330

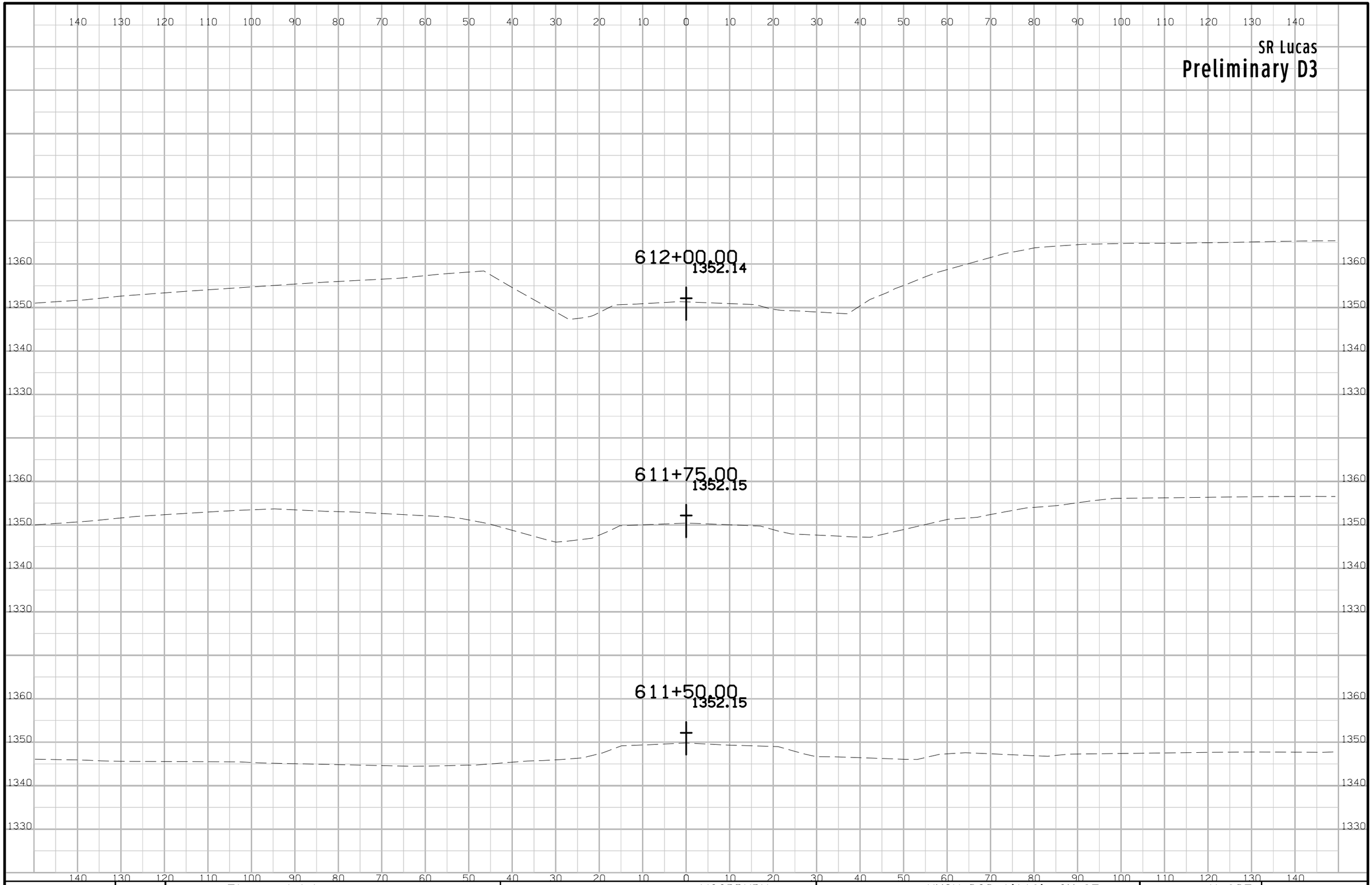
140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.604

8:05:07 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.605

8:05:07 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

612+75.00

1351.85

612+50.00

1352.14

612+25.00

1352.14

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.606

8:05:07 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

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 1340

1362.97
80.96

1348.00
36.03

1348.00
26.03

1349.81
19.00

1349.81
19.00

1347.55
27.86

1347.55
37.86

1372.55
112.87

1371.95
127.87

1376.83
142.51

613+50.00
1350.66

1370 1360 1350 1340

1347.75
41.79

1347.75
31.79

1349.97
19.00

1349.97
19.00

1347.23
35.03

1347.23
45.03

613+25.00
1350.82

1370 1360 1350 1340

1350.61
25.21

1350.49
25.62

613+00.00
1351.22

1370 1360 1350 1340

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.607

8:05:07 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

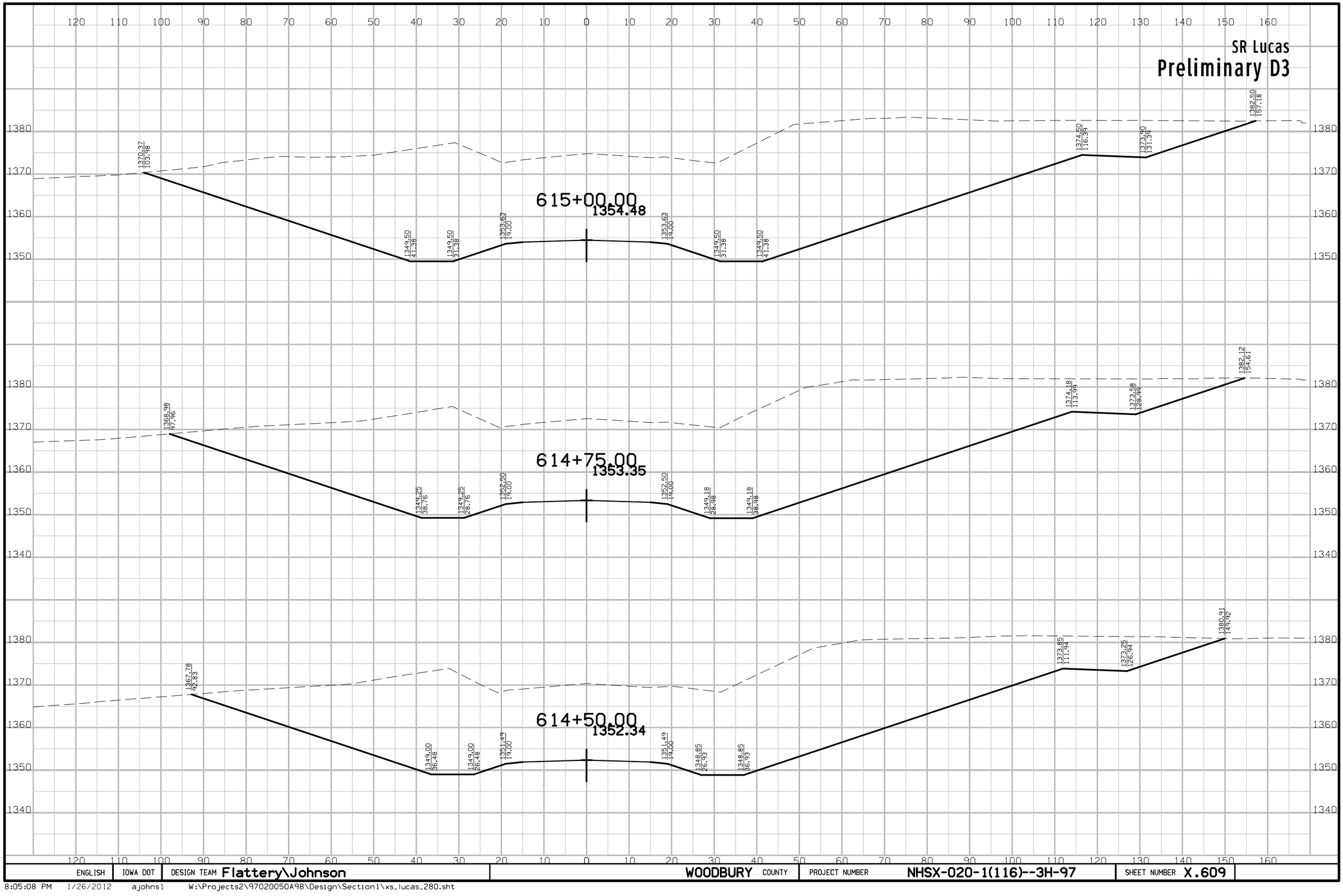
Preliminary D3

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.608

8:05:08 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

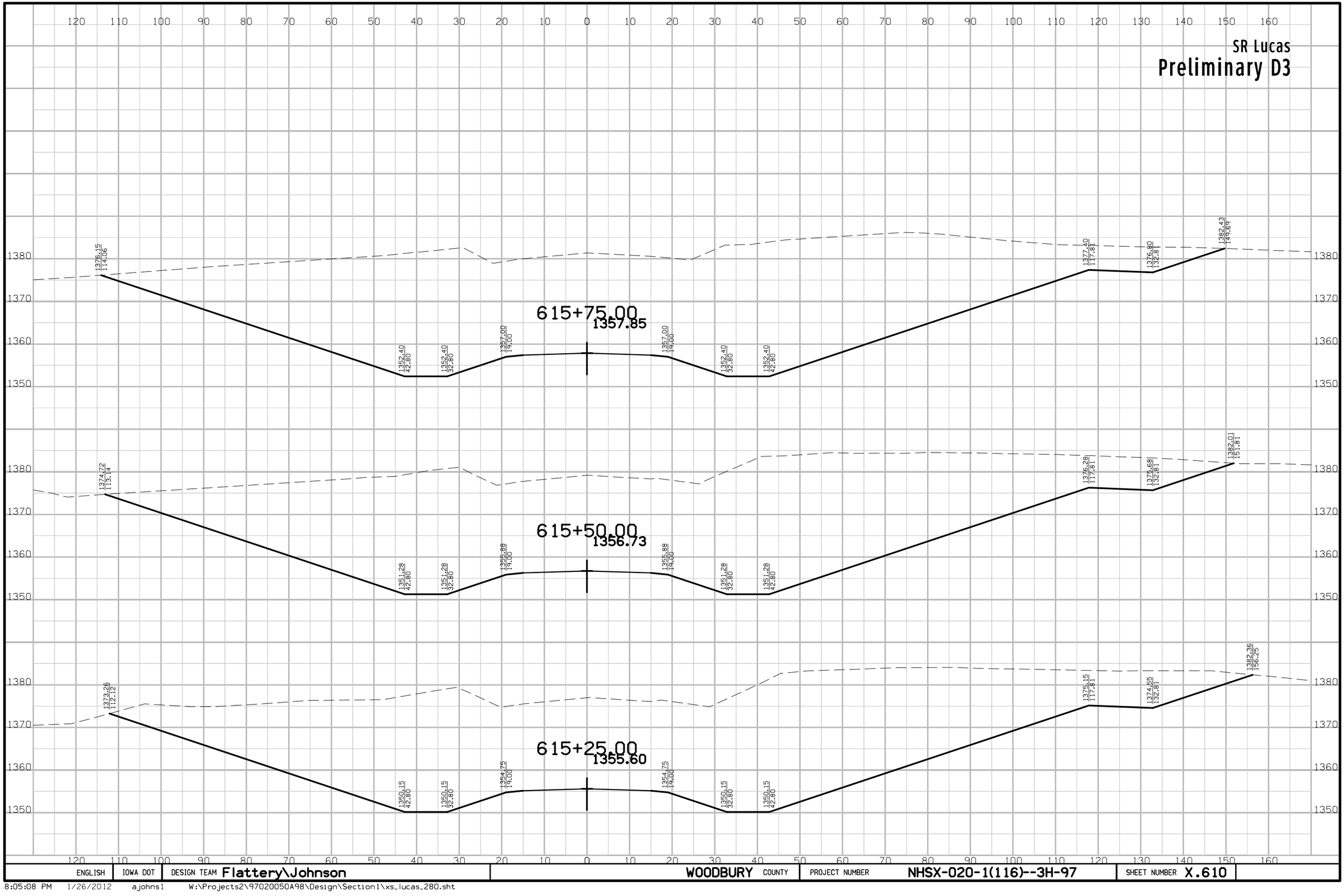


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.609

8:05:08 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.610

8:05:08 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

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

1380.28 137.81
1380.78 117.81
1355.78 42.80
1355.78 32.80
1360.38 14.00
1360.38 14.00
1355.78 32.80
1355.78 42.80
1380.78 117.81
1380.18 132.81
1381.93 136.08

616+50.00
1361.23

1380 1370 1360 1350

1379.64 119.97
1354.65 42.80
1354.65 32.80
1359.25 19.00
1359.25 19.00
1354.65 32.80
1354.65 42.80
1379.65 117.81
1379.05 132.81
1382.32 142.61

616+25.00
1360.10

1380 1370 1360 1350

1378.03 116.32
1353.53 42.80
1353.53 32.80
1358.13 19.00
1358.13 19.00
1353.53 32.80
1353.53 42.80
1378.53 117.81
1377.93 132.81
1382.65 146.98

616+00.00
1358.98

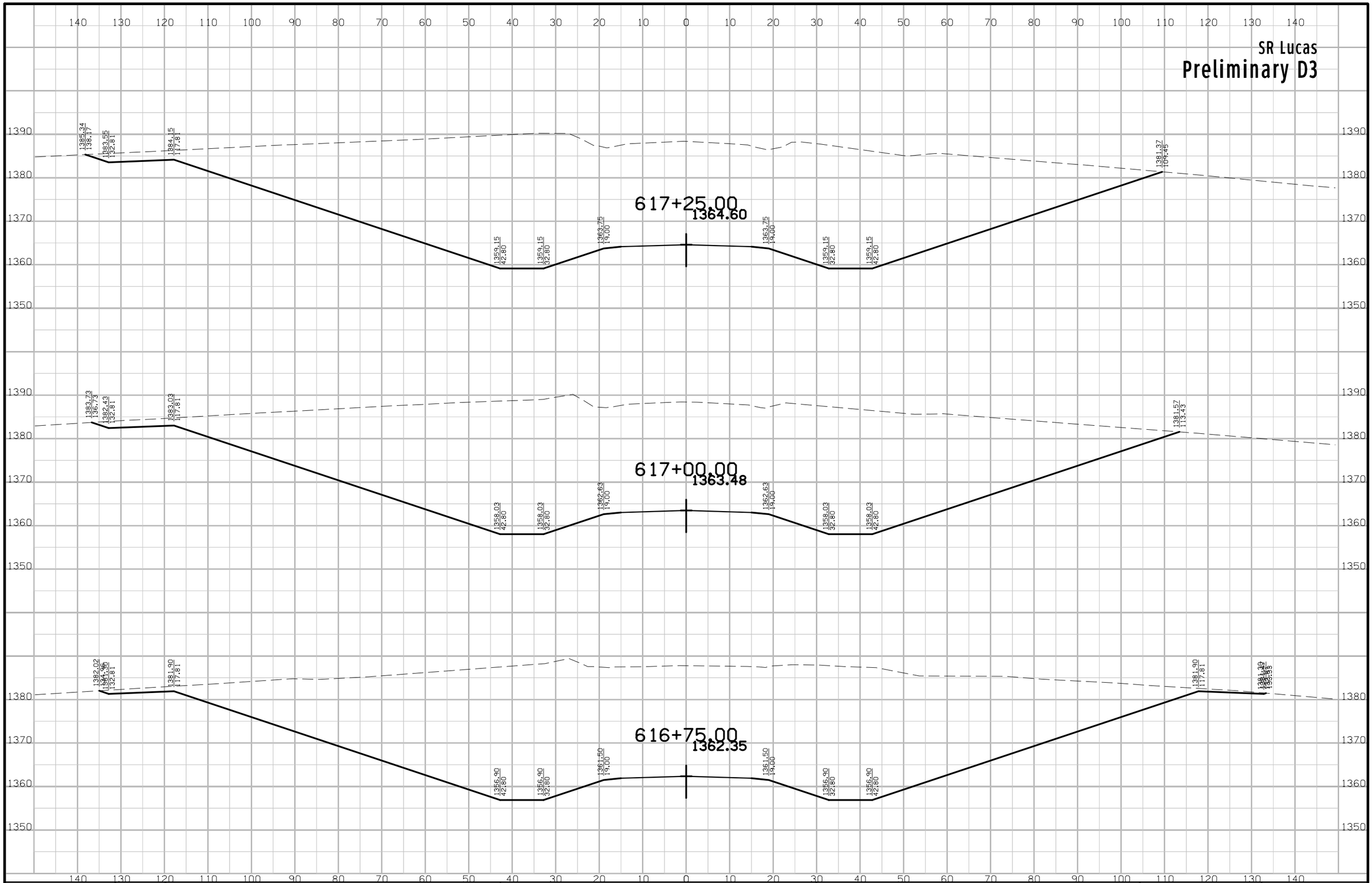
140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.611

8:05:09 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.612

8:05:09 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

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

1387.94
139.40
1385.75
132.81
1386.35
117.81
1361.35
42.80
1361.35
32.80
1365.95
19.00
1365.95
19.00
1361.35
32.80
1361.35
42.80
1380.78
101.11

617+75.00
1366.80

1386.71
138.92
1384.68
132.81
1385.28
117.81
1360.28
42.80
1360.28
32.80
1364.88
19.00
1364.88
19.00
1360.28
32.80
1360.28
42.80
1381.17
105.49

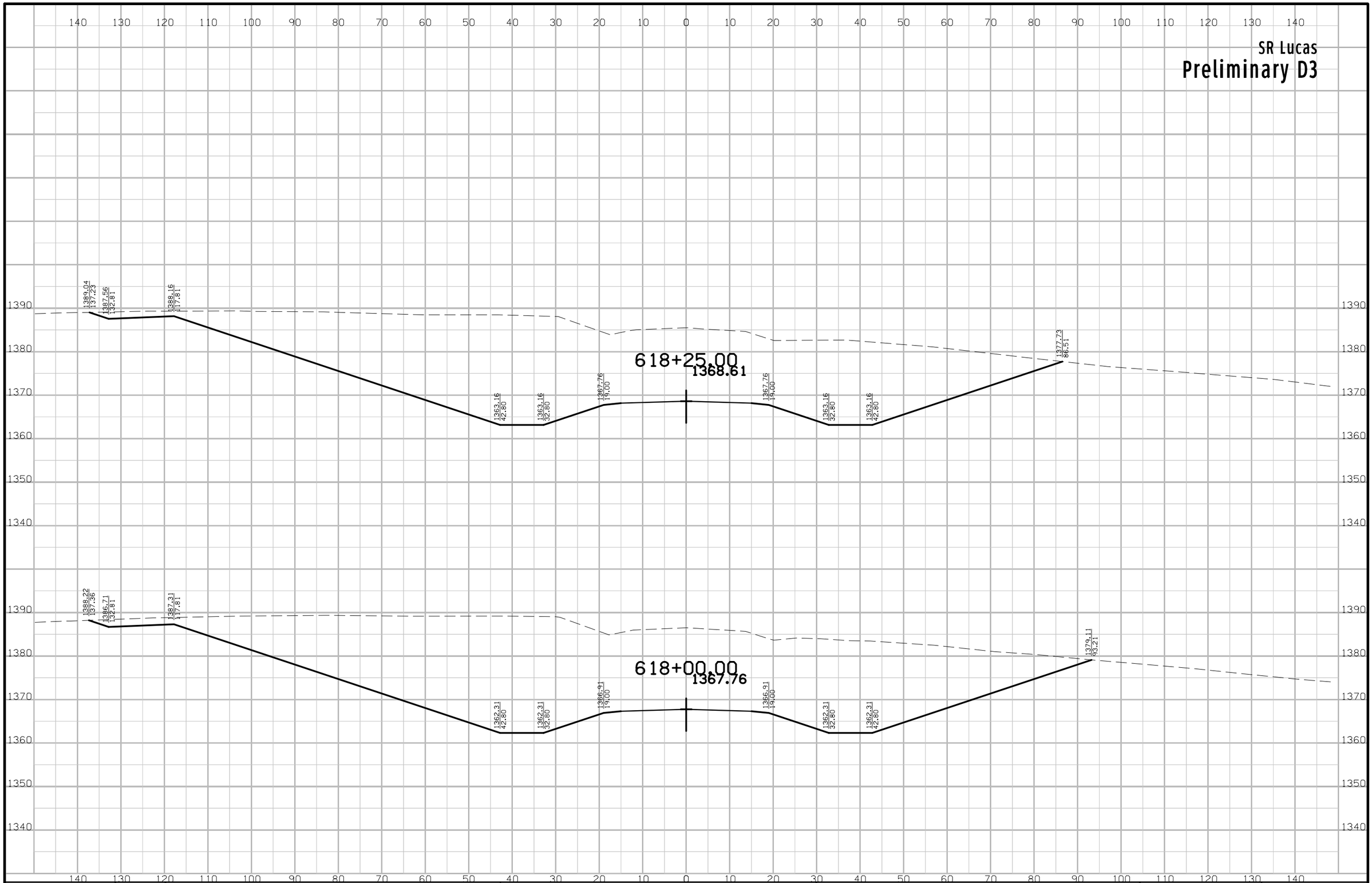
617+50.00
1365.73

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.613

8:05:09 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

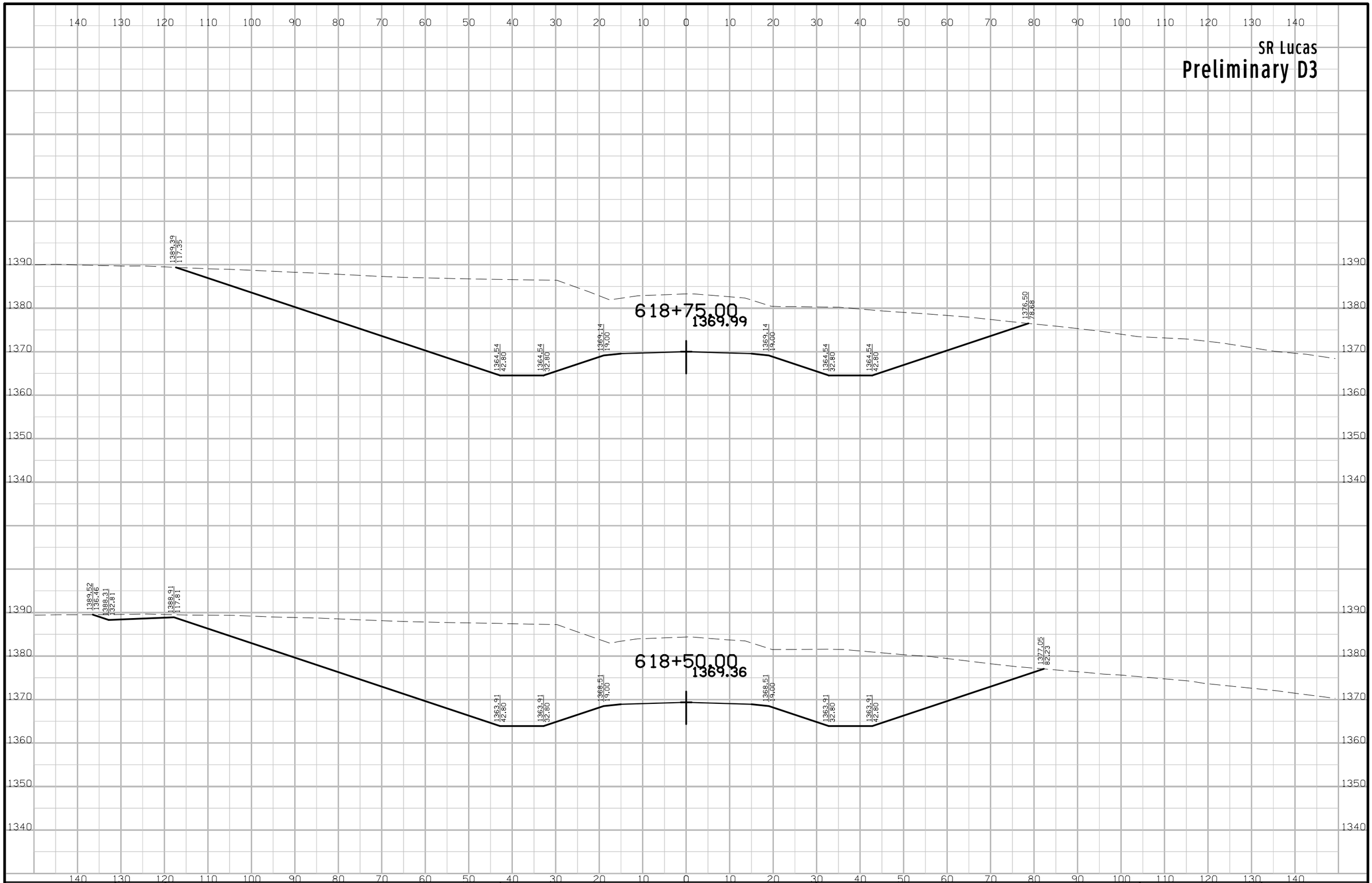


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.614

8:05:09 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

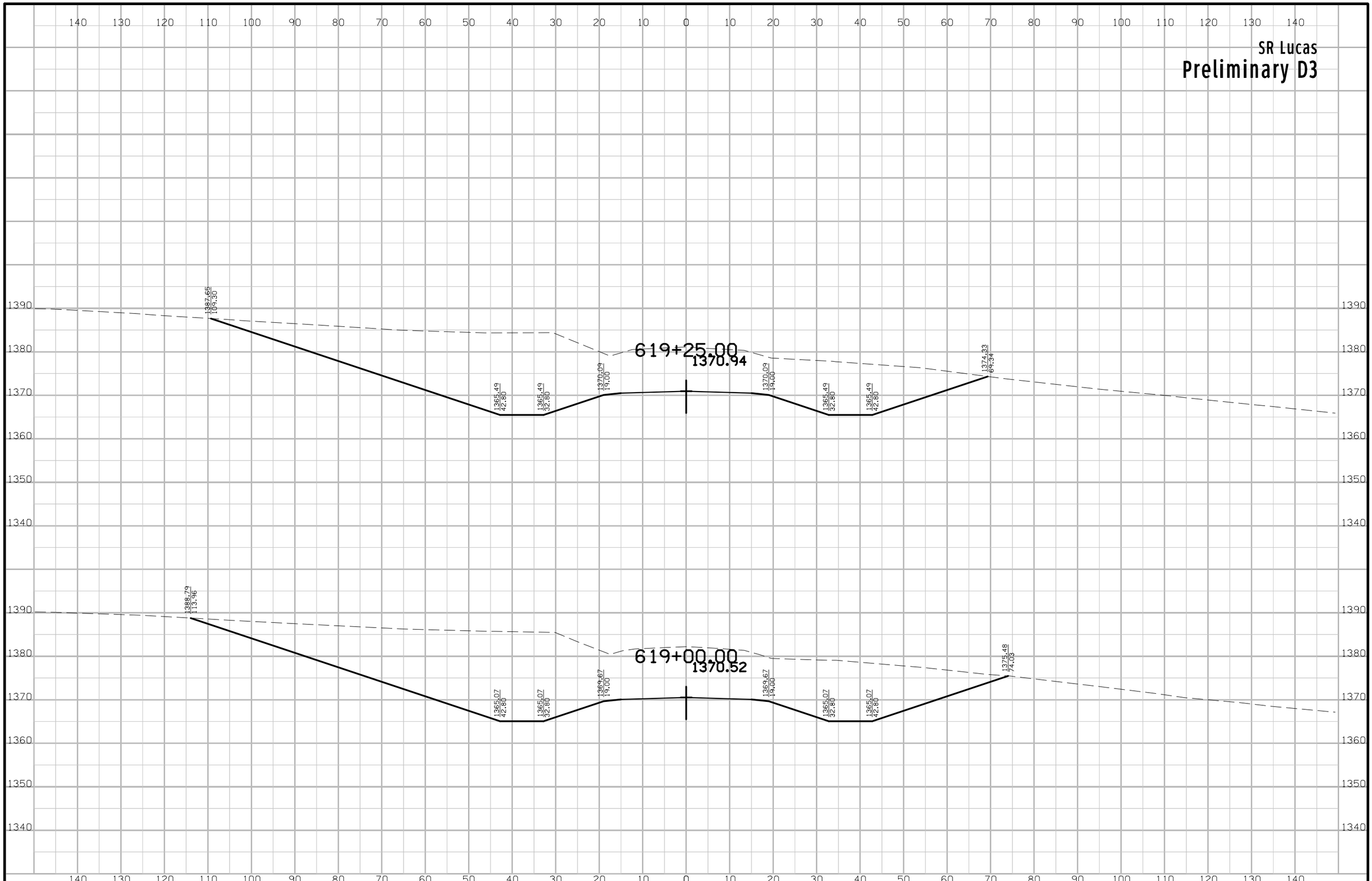


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.615

8:05:10 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

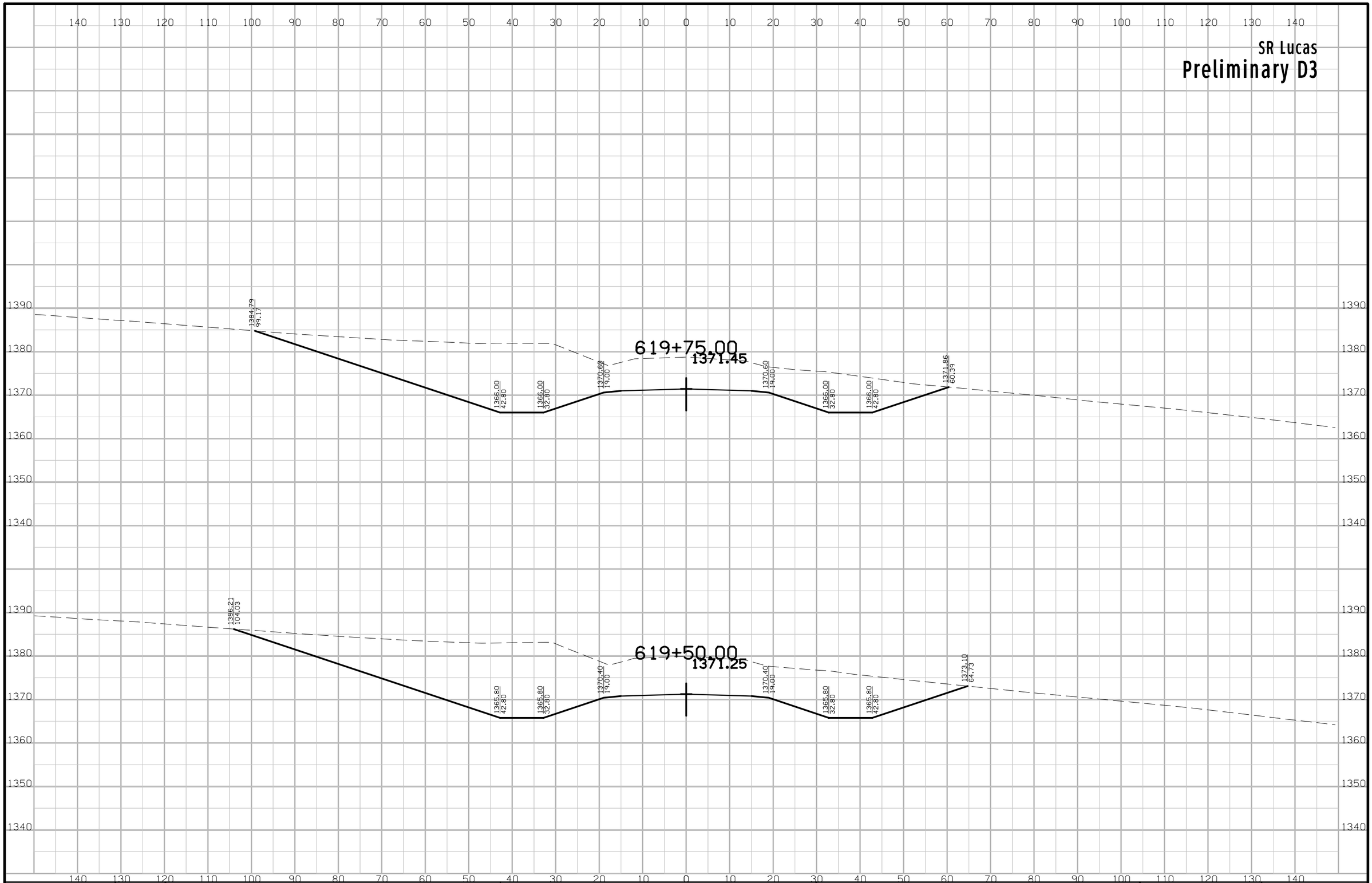


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.616

8:05:10 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

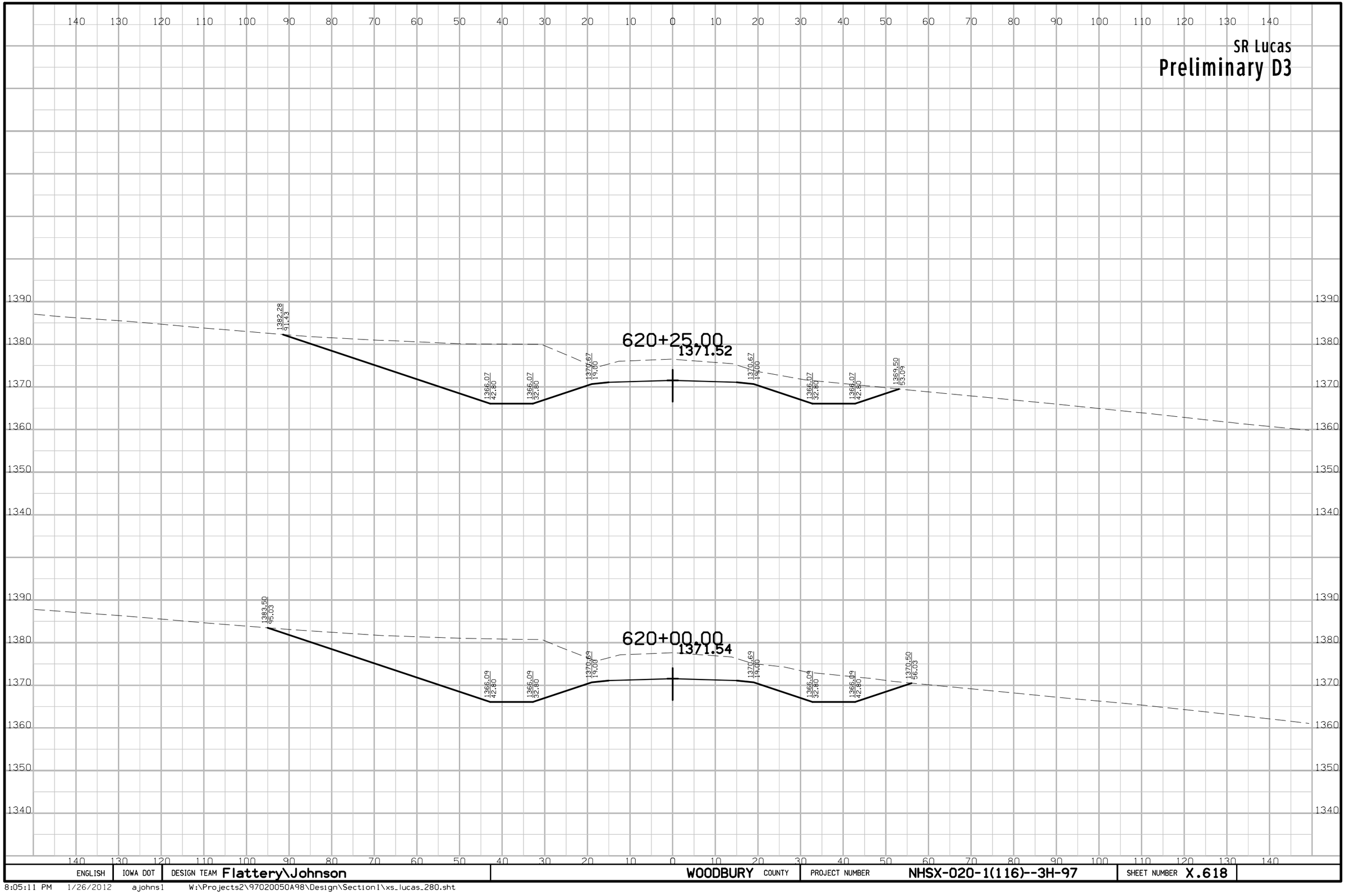


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.617

8:05:10 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

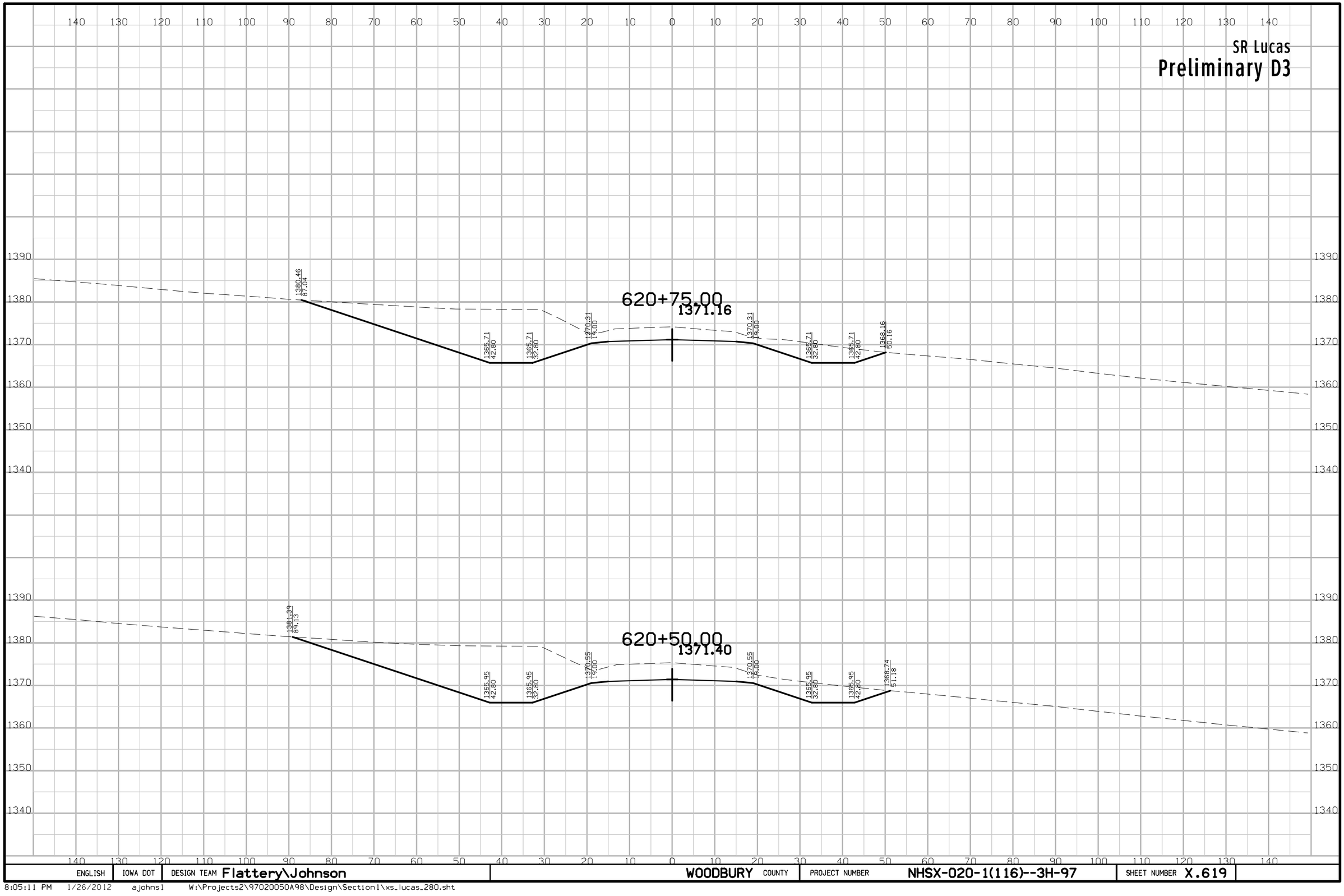


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.618

8:05:11 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

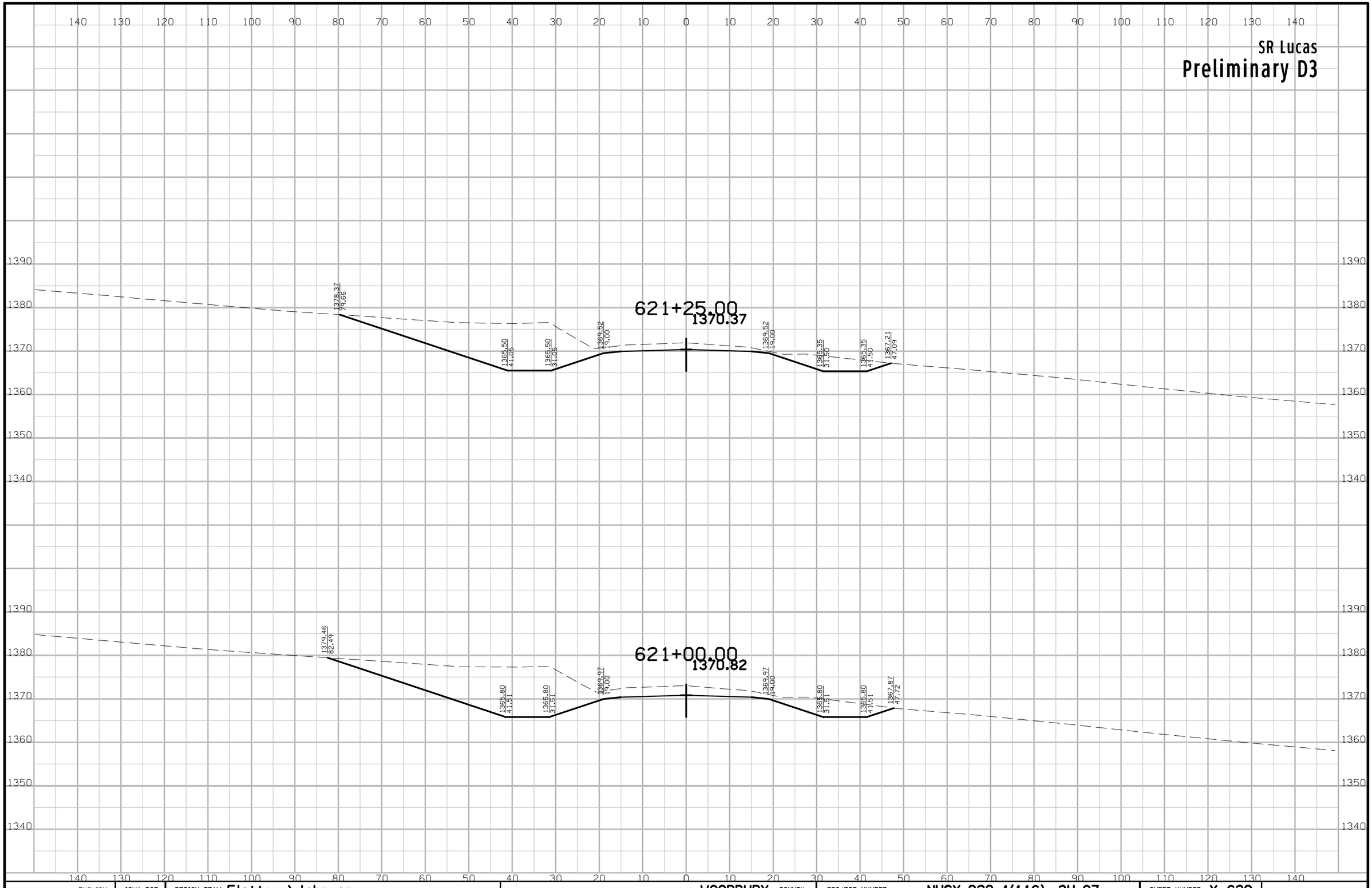


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.619

8:05:11 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

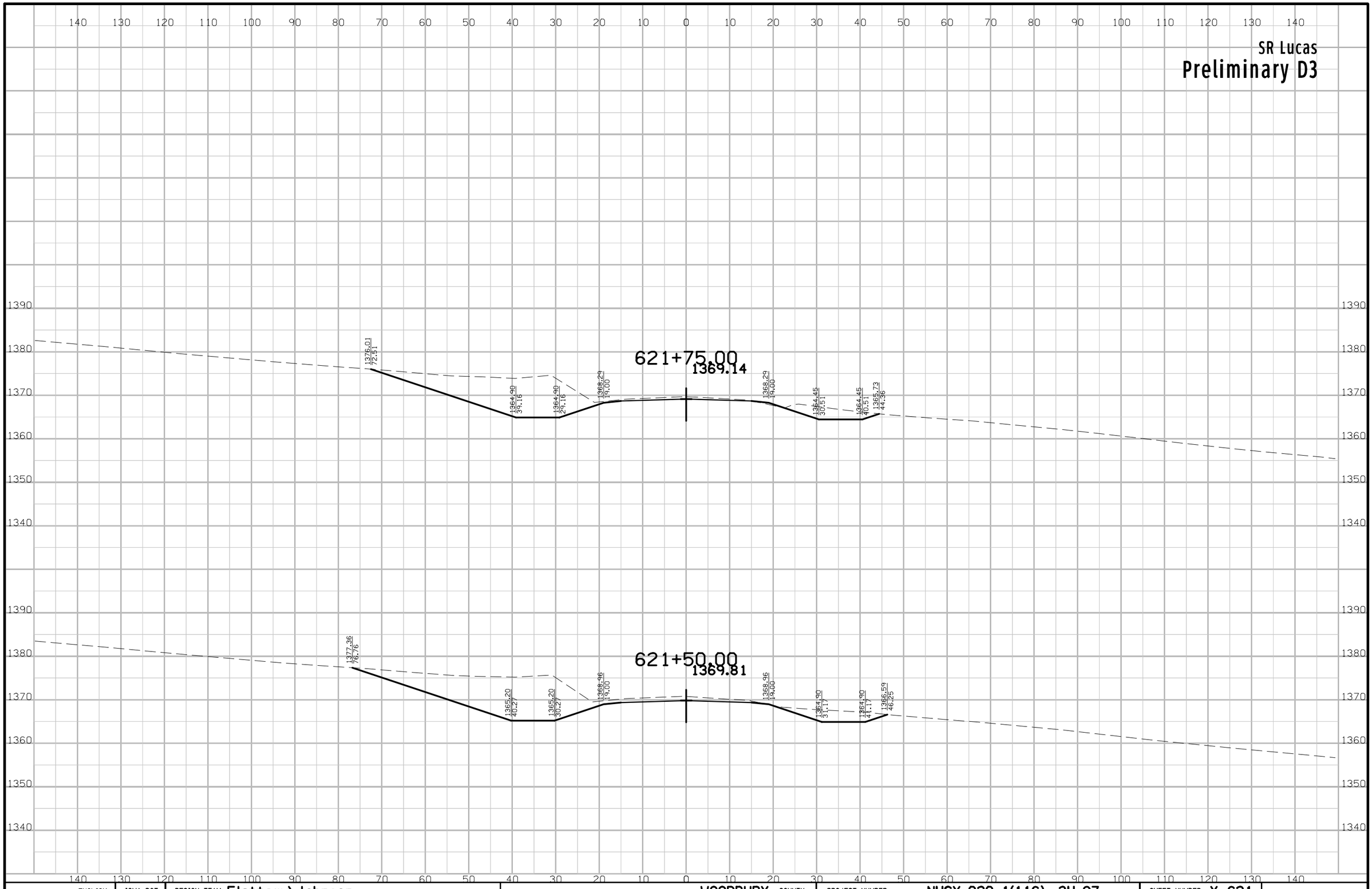


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.620

8:05:11 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3

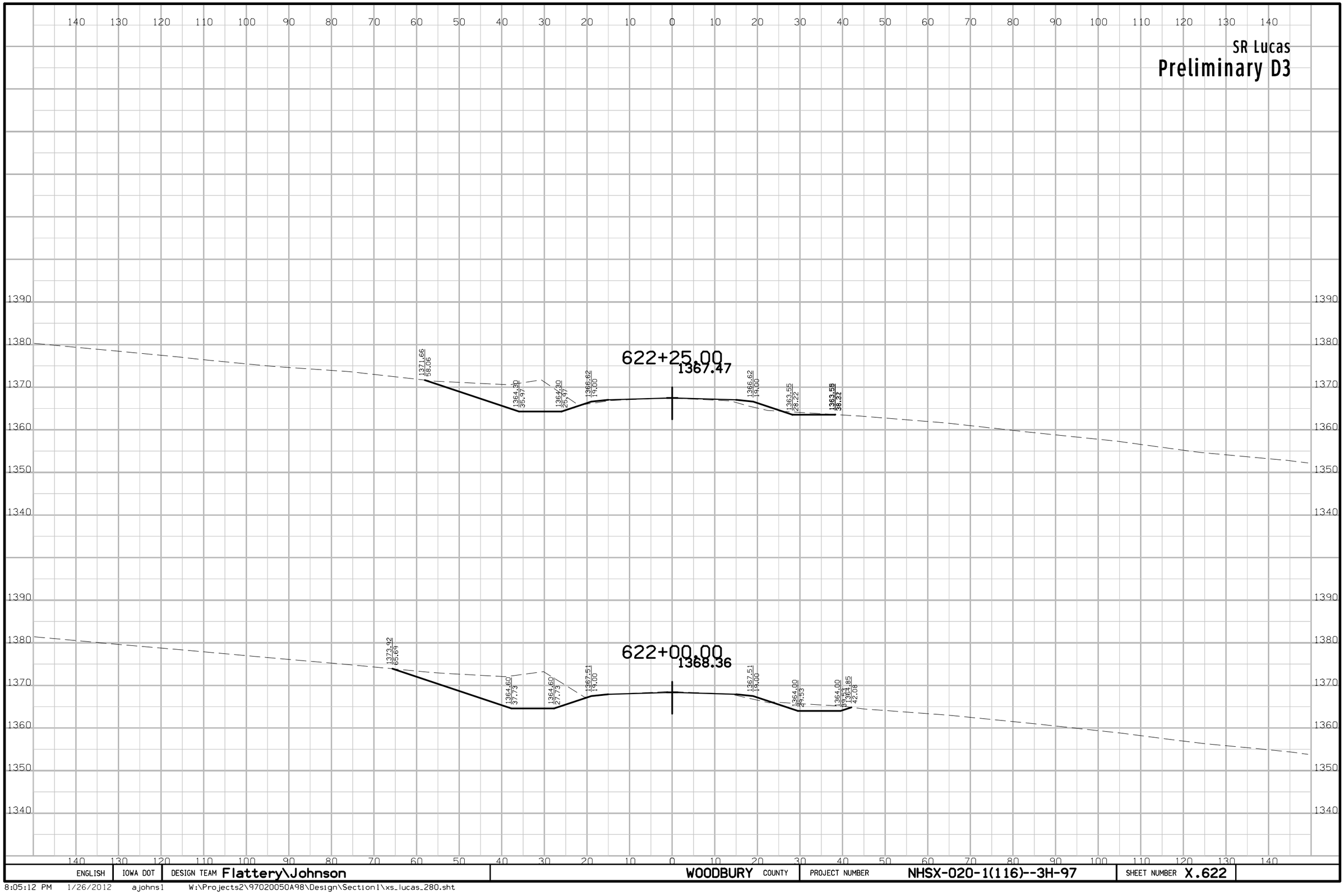


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.621

8:05:11 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.622

8:05:12 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lucas

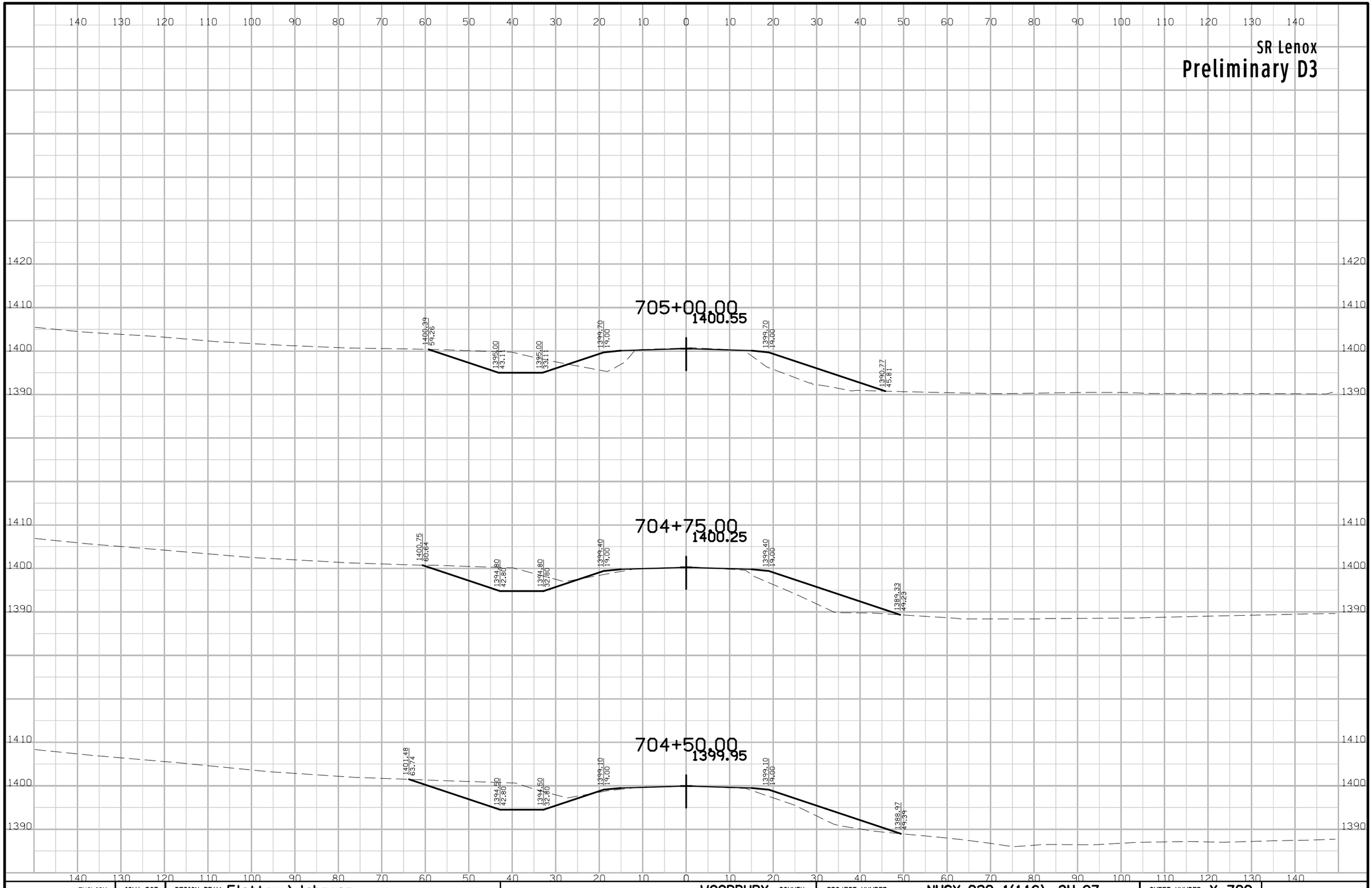
Preliminary D3

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.623

8:05:12 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lucas_280.sht

SR Lenox

Preliminary D3

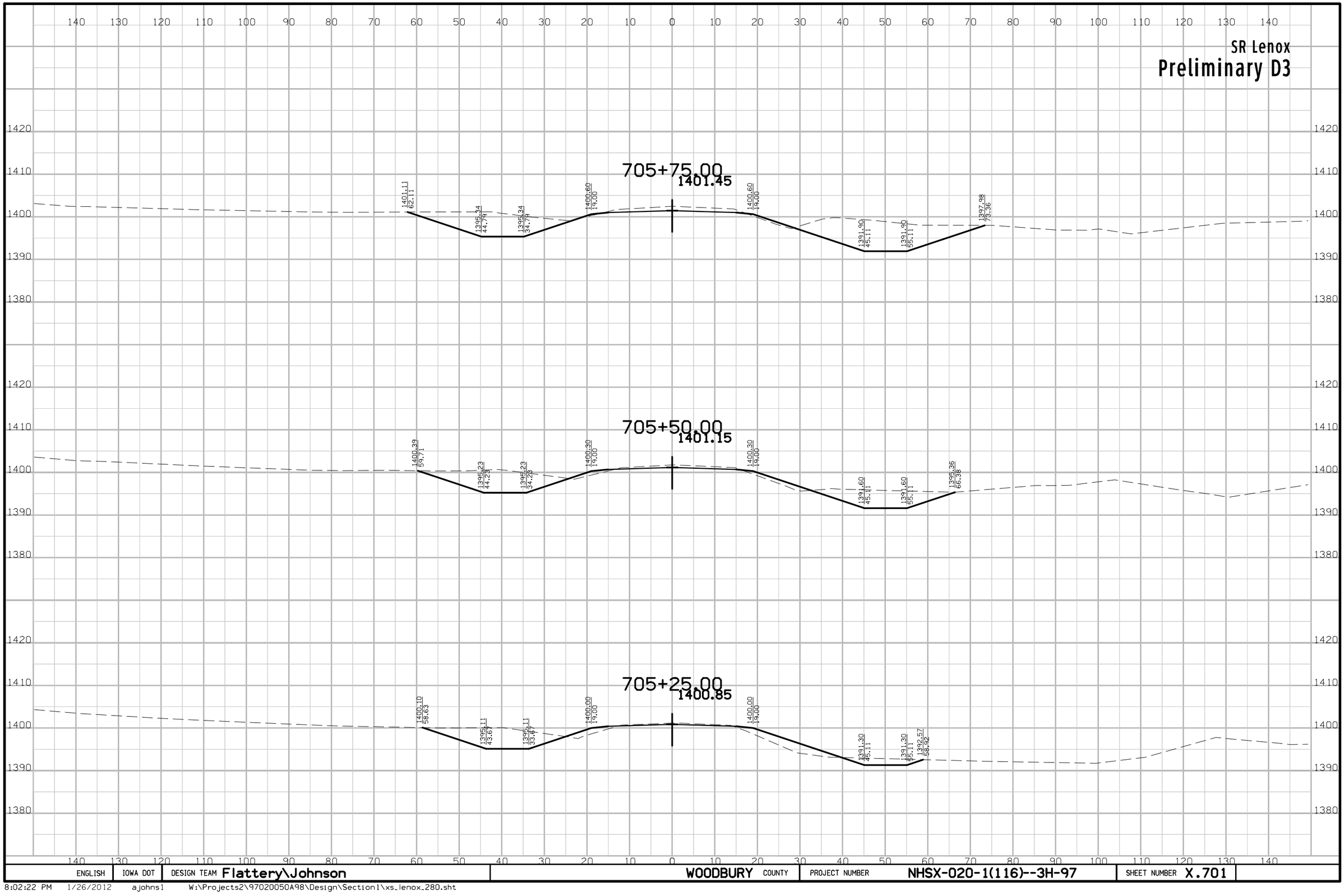


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.700

8:02:21 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3

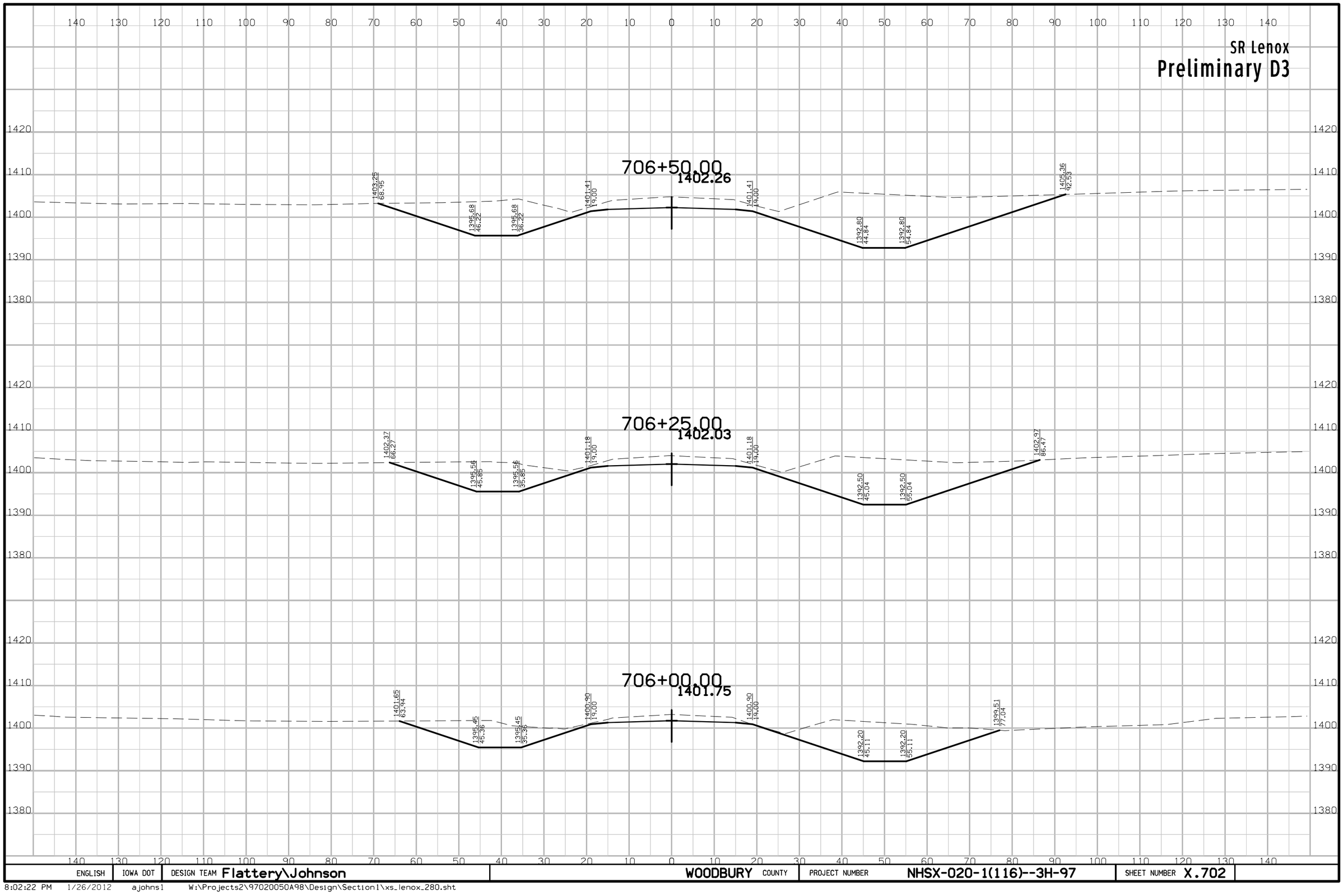


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.701

8:02:22 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3

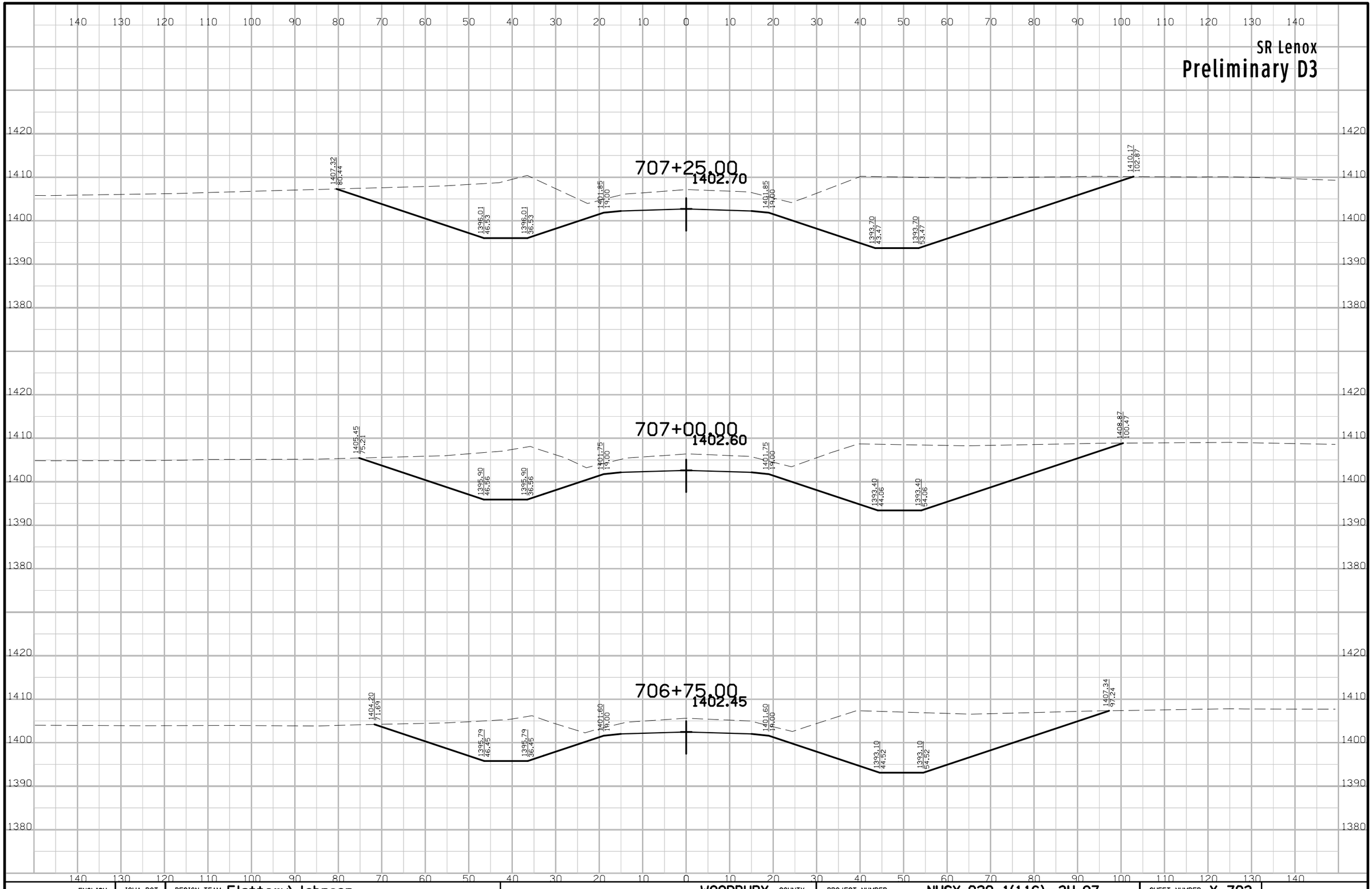


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.702

8:02:22 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3

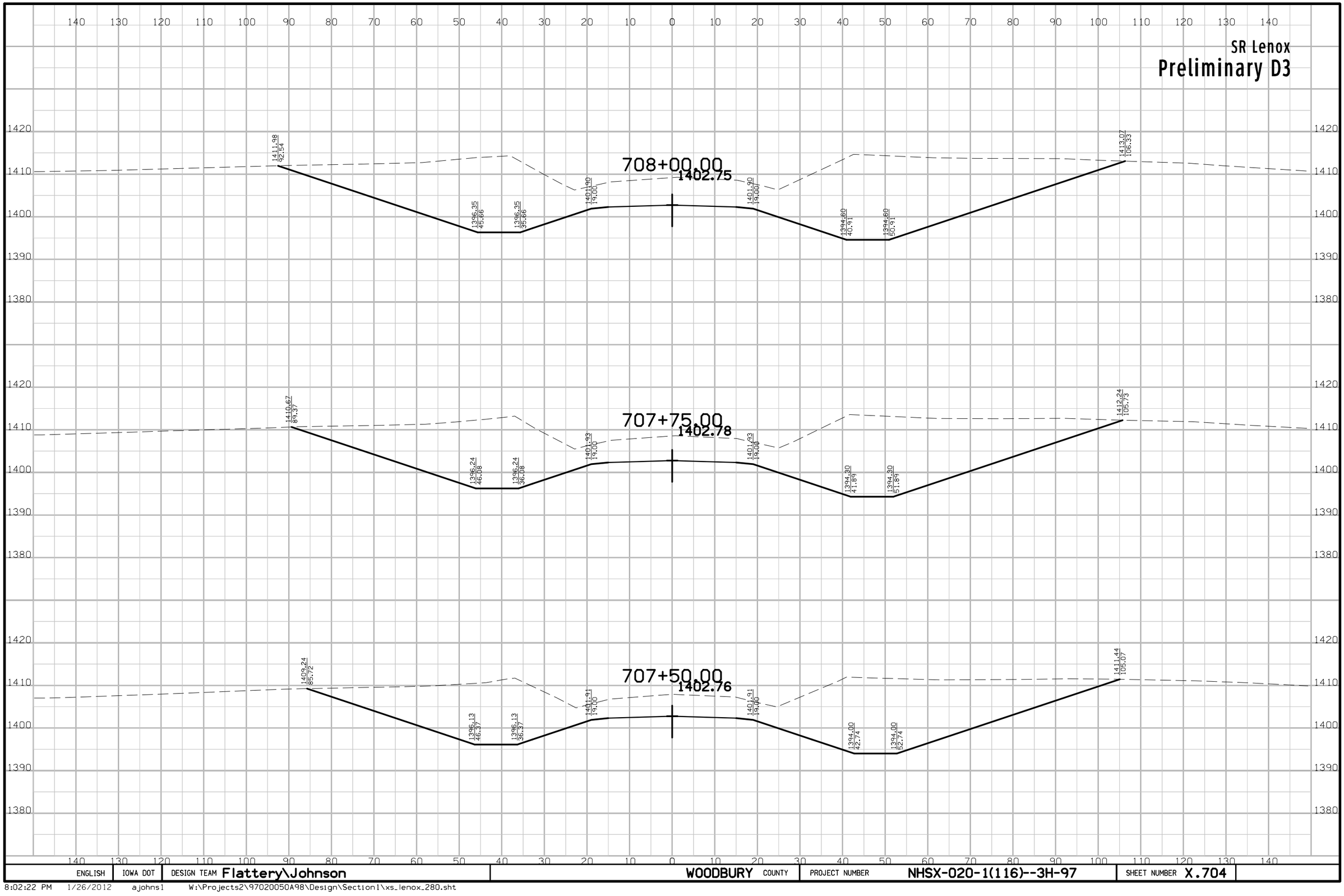


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.703

8:02:22 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3

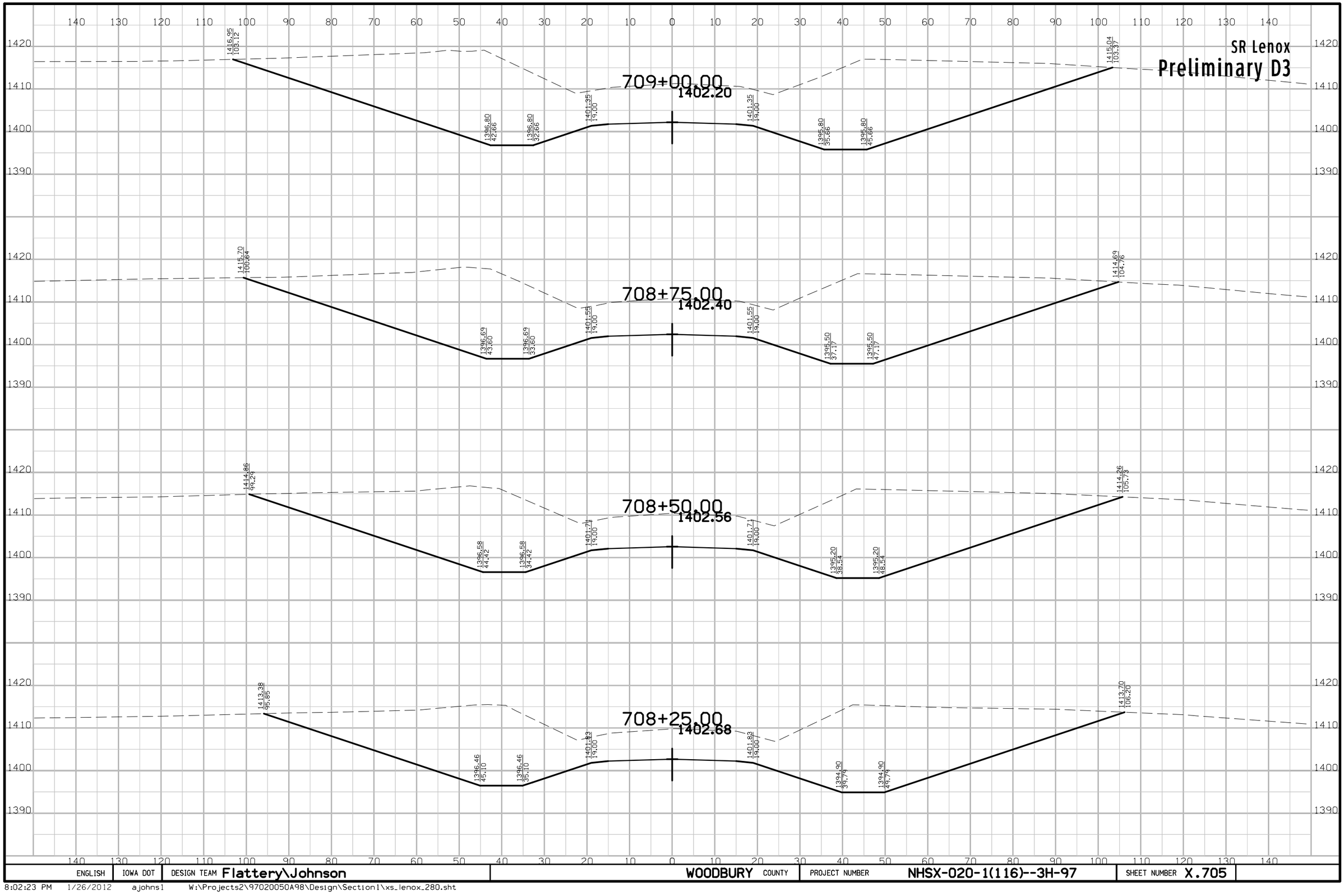


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.704

8:02:22 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3

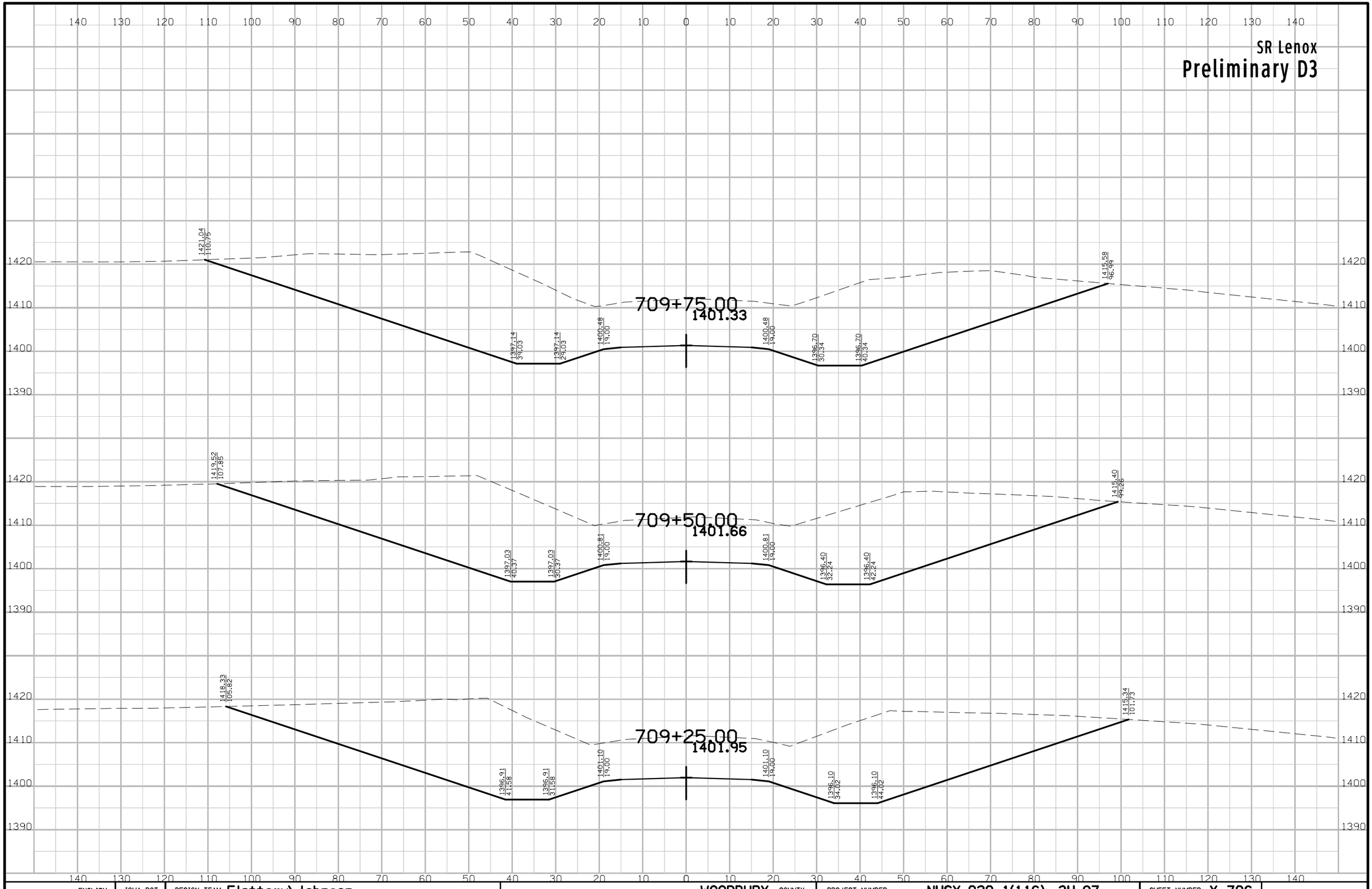


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.705

8:02:23 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3

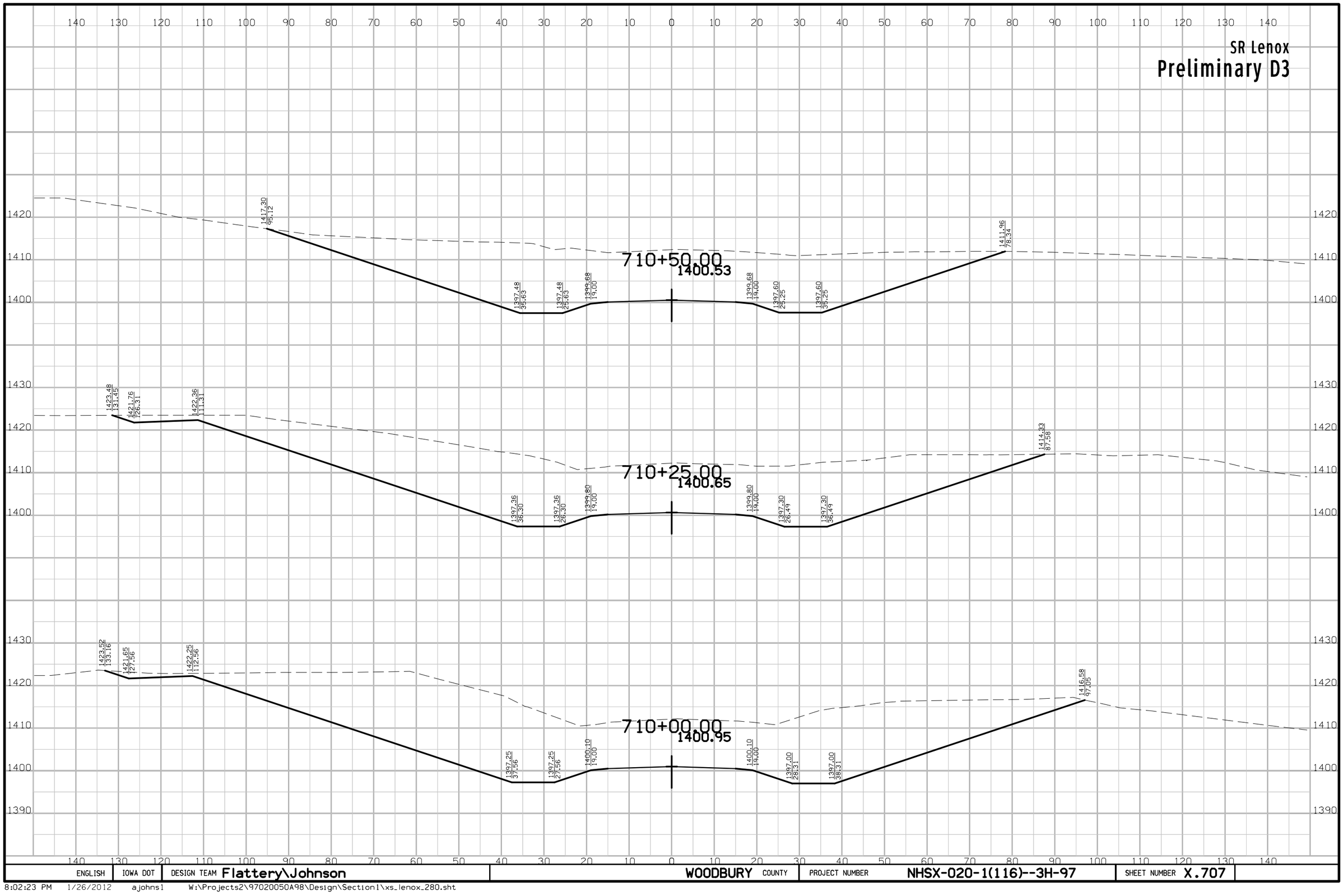


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.706

8:02:23 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.707

8:02:23 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3

711+75.00
1402.75
1401.50 54.11
1403.15 47.95

711+50.00
1402.00
1396.90 59.49
1401.18 22.67
1401.46 23.09

711+25.00
1401.35
1395.90 53.14
1395.90 43.14
1400.50 19.00
1400.50 19.00
1395.90 43.55
1395.90 53.55

711+00.00
1400.88
1411.33 78.43
1397.70 37.53
1397.70 27.53
1400.03 19.00
1400.03 19.00
1398.20 25.78
1398.20 35.78
1409.20 68.78

710+75.00
1400.61
1414.78 87.10
1397.59 35.53
1397.59 25.53
1399.76 19.00
1399.76 19.00
1397.90 24.59
1397.90 34.59
1409.83 70.40

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.708

8:02:24 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3

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

1420 1410

713+25.00
1403.15

1420 1410

713+00.00
1403.19

1430 1420 1410

712+75.00
1403.19

1420 1410

712+50.00
1403.19

1410

712+25.00
1403.19

1410

712+00.00
1403.19

1410

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.709

8:02:24 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3

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

1424.96 142.88 | 1420.80 130.41 | 1421.40 118.41 | 1396.40 40.40 | 1396.40 30.40 | 1399.92 19.00 | 1399.92 19.00 | 1398.12 24.73 | 1398.12 34.73 | 1420.97 103.27

714+25.00
1400.77

1420 1410 1400

1397.00 43.76 | 1397.00 33.76 | 1400.33 19.00 | 1400.33 19.00 | 1399.00 24.76 | 1399.00 34.76

714+00.00
1401.18

1420 1410 1400

1396.95 61.15 | 1396.57 48.18 | 1400.90 19.63 | 1401.01 19.41 | 1396.77 47.60 | 1397.70 59.09

713+75.00
1401.72

1420 1410

1401.46 32.52 | 1402.19 31.13

713+50.00
1402.40

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.710

8:02:24 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3

715+25.00
1400.52

715+00.00
1400.38

714+75.00
1400.37

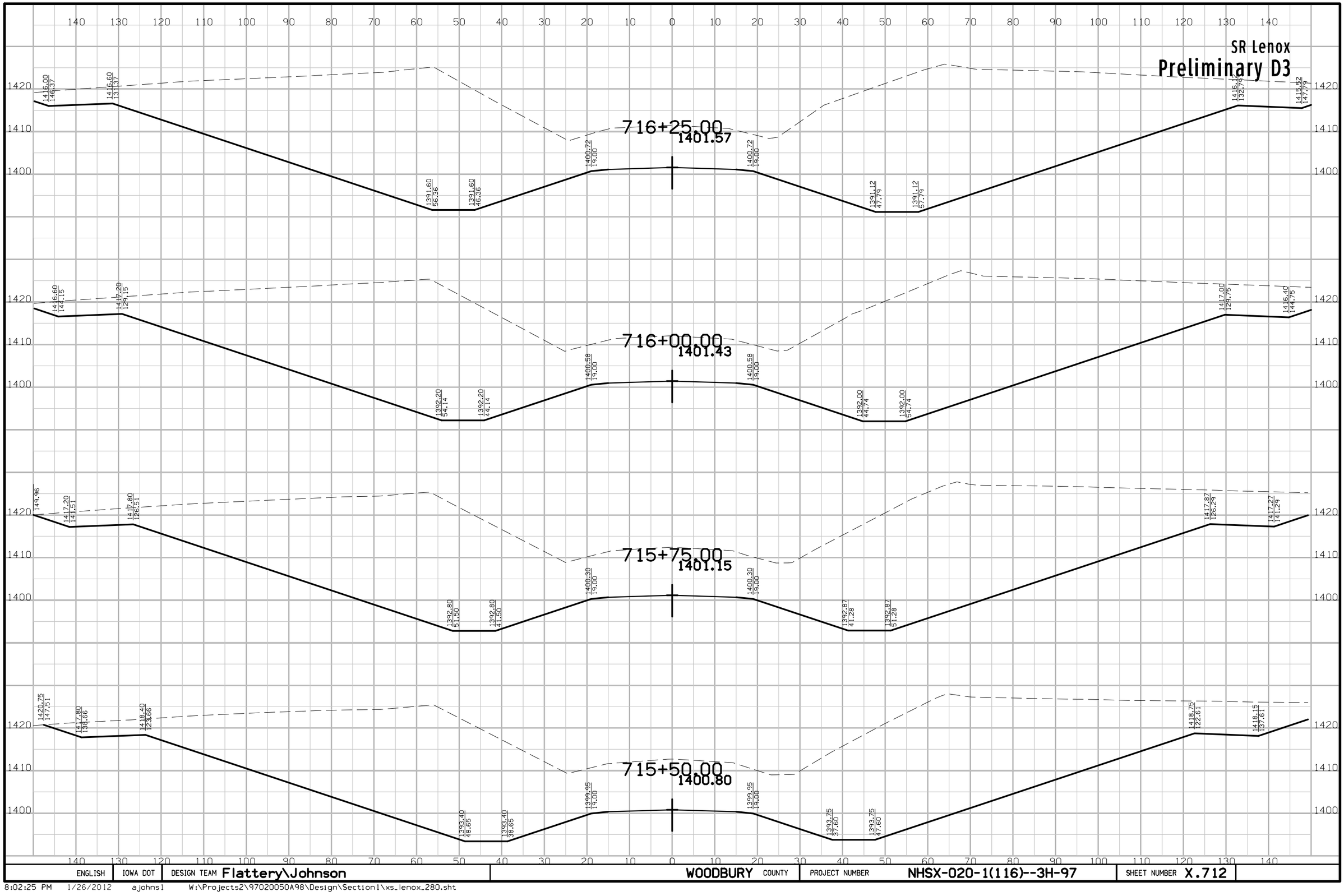
714+50.00
1400.50

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.711

8:02:24 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3

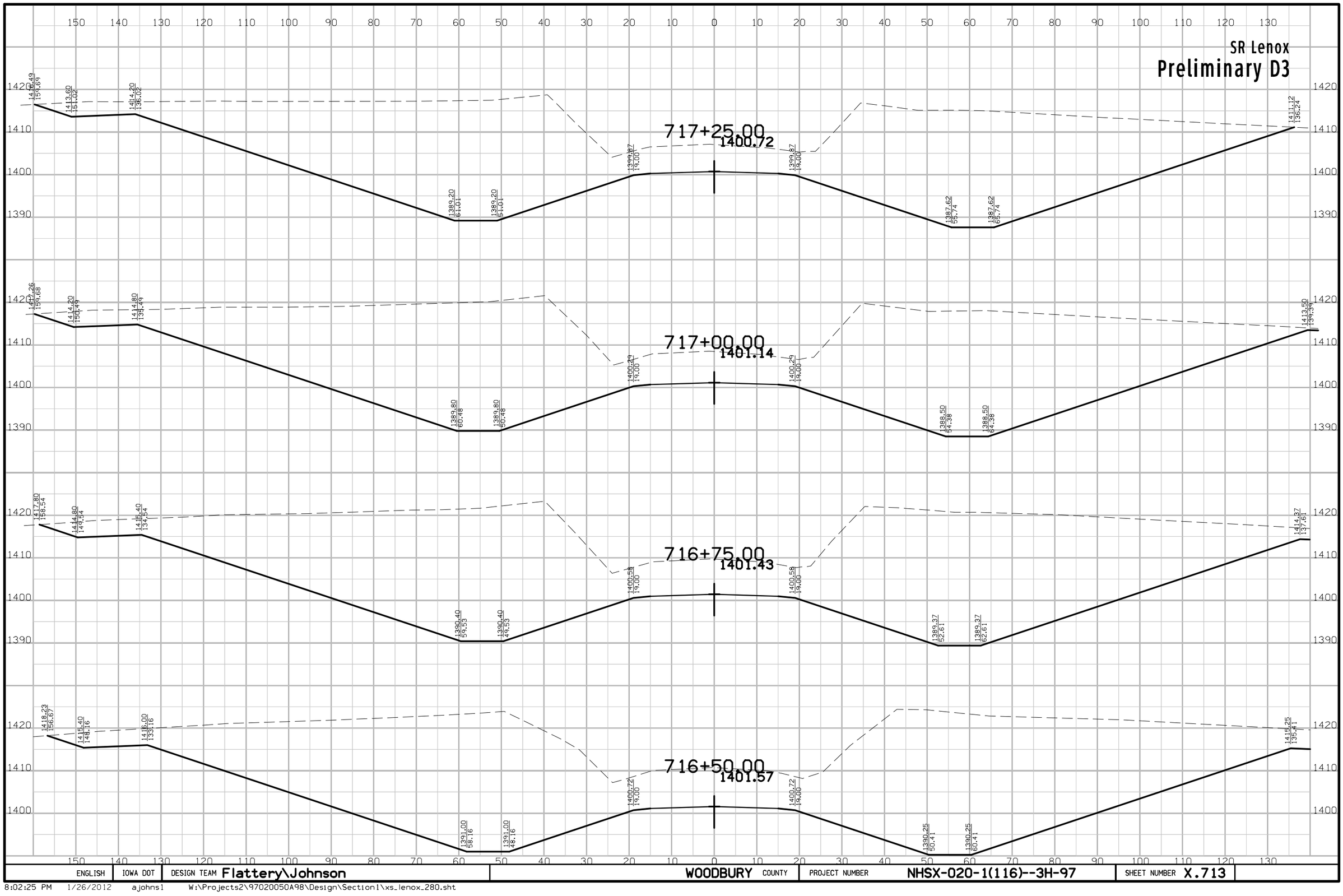


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.712

8:02:25 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3

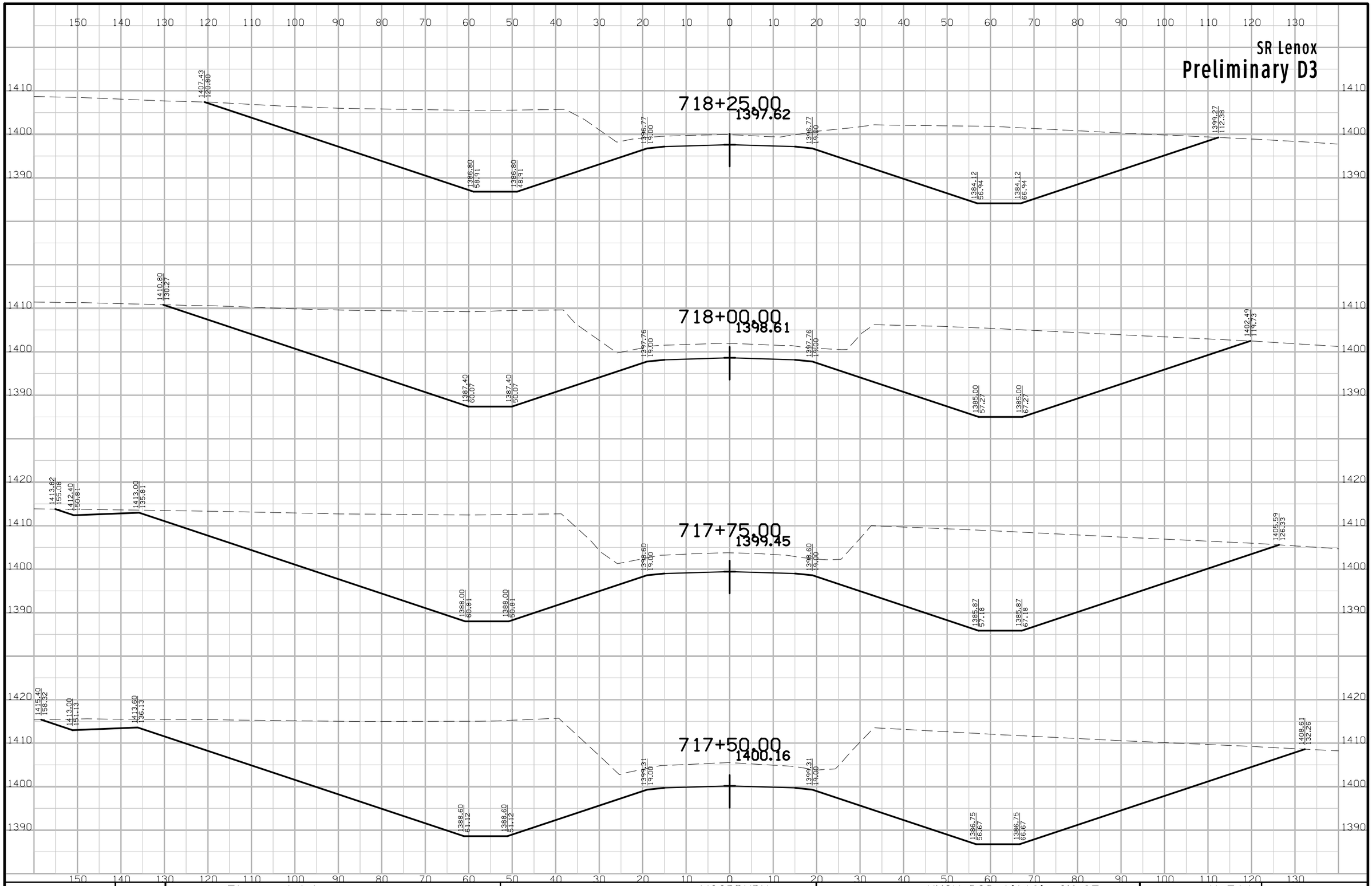


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.713

8:02:25 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3

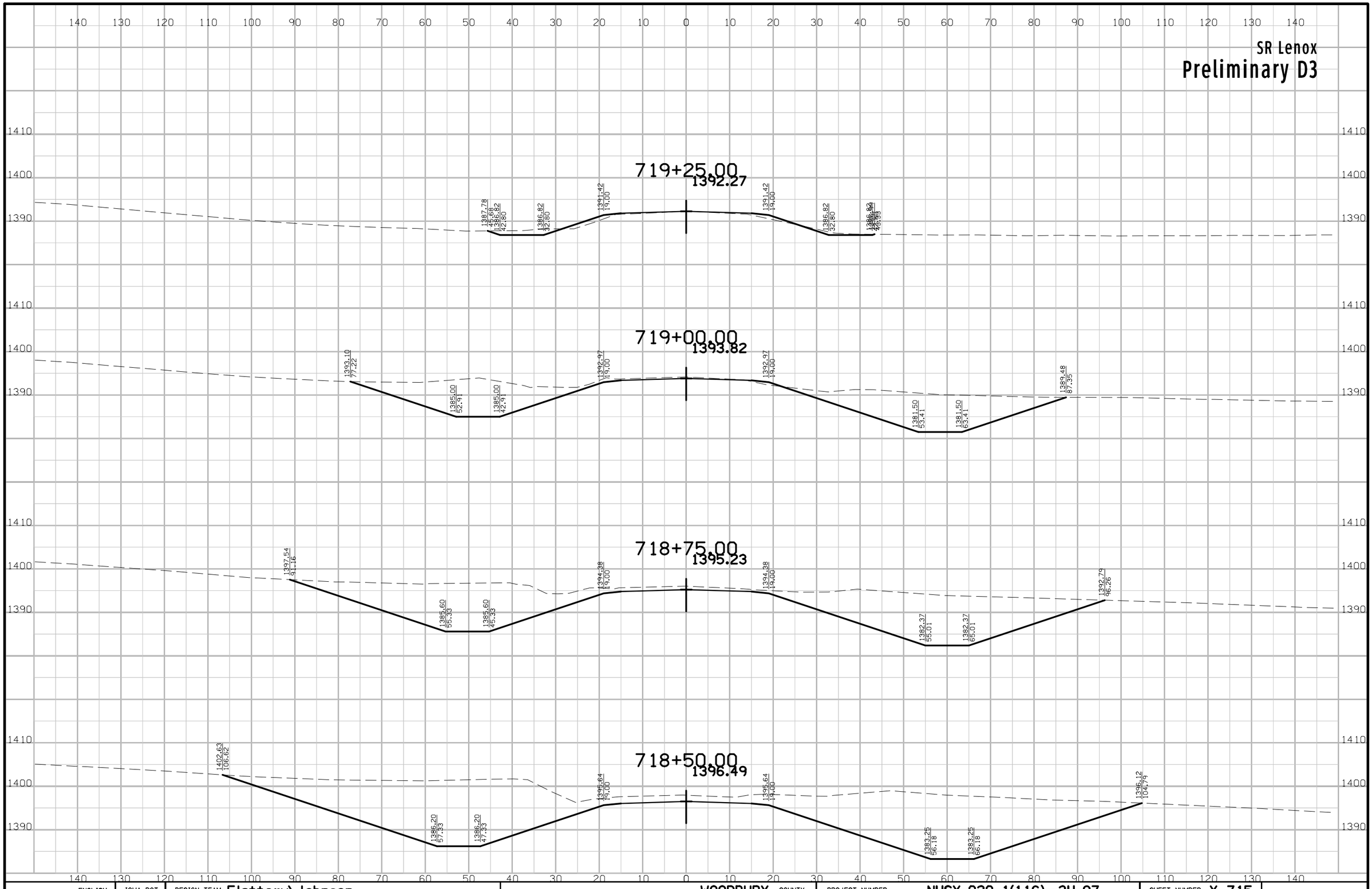


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.714

8:02:25 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3

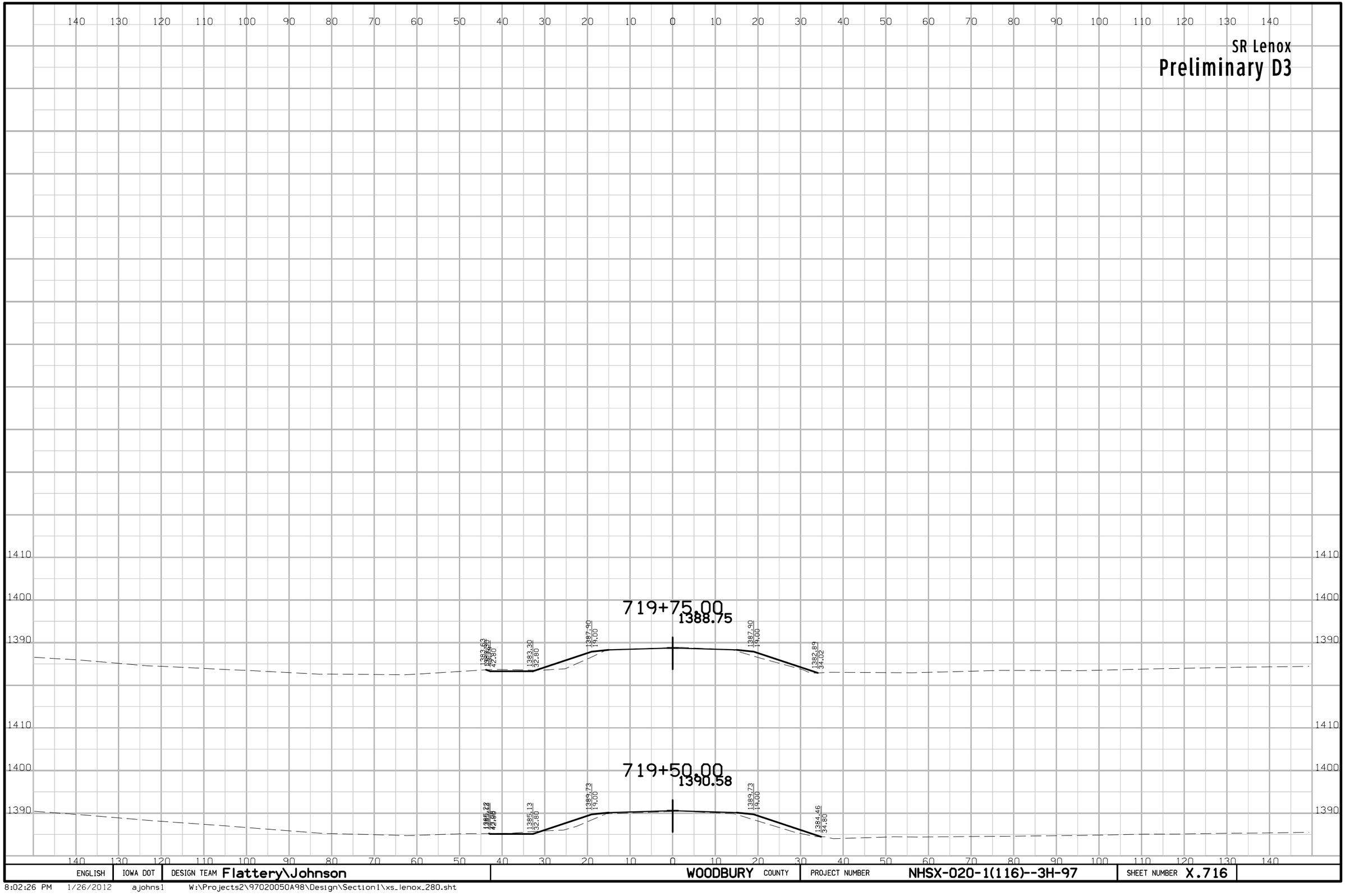


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.715

8:02:26 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Lenox

Preliminary D3

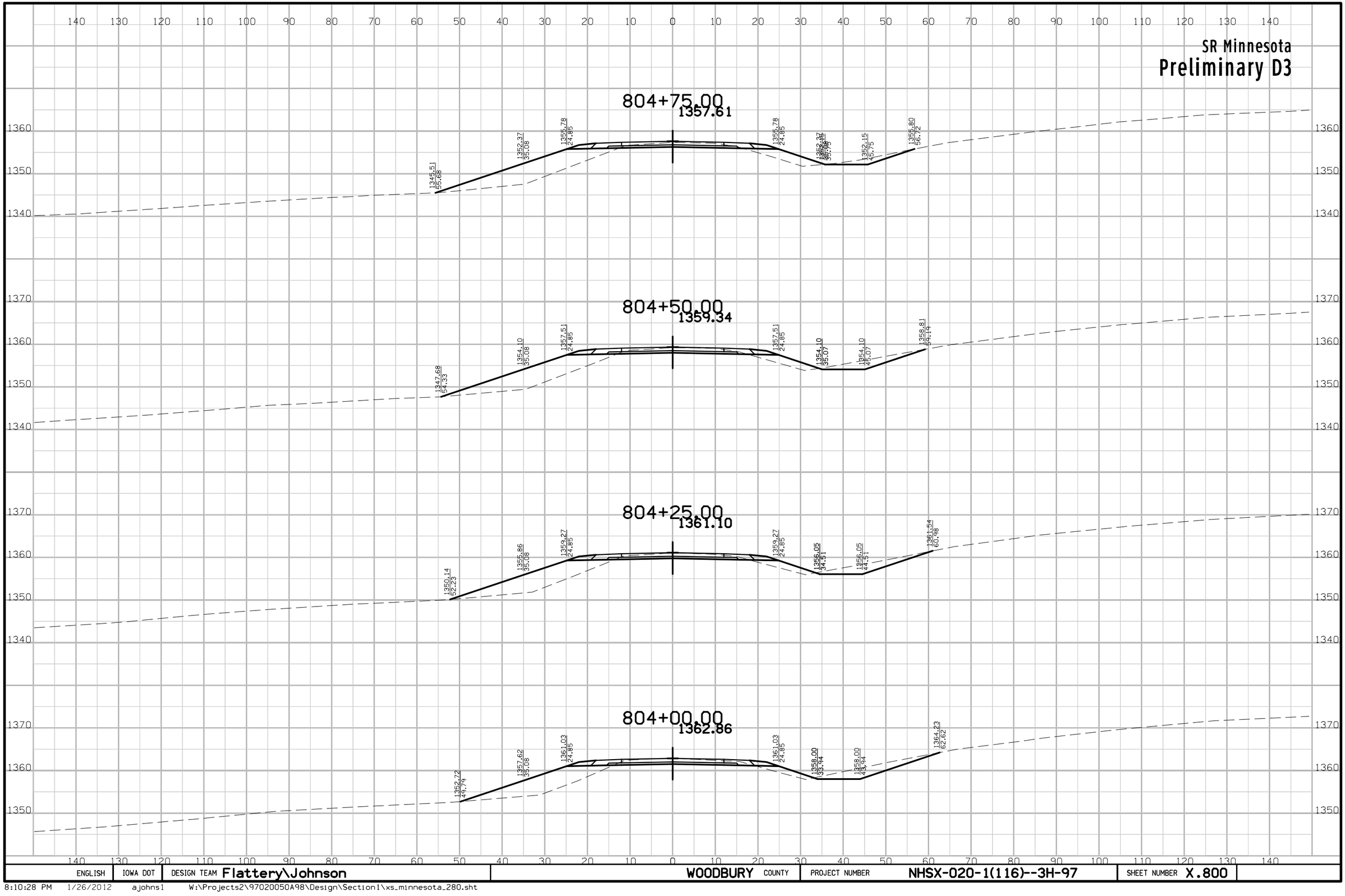


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.716

8:02:26 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_lenox_280.sht

SR Minnesota

Preliminary D3

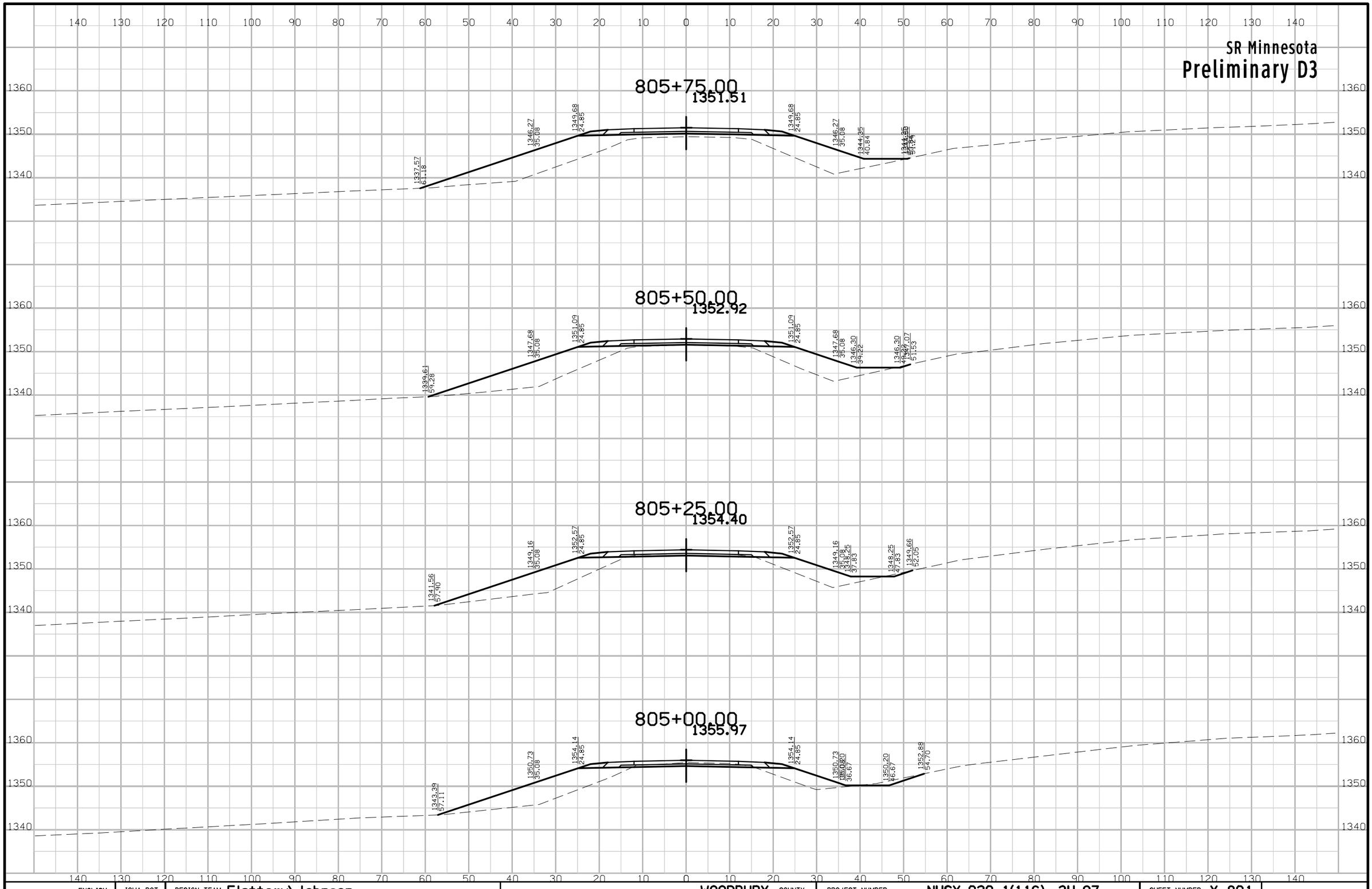


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.800

8:10:28 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.801

8:10:28 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

806+75.00

1346.66

1330.36 68.26 | 1341.42 35.08 | 1344.83 24.85 | 1344.83 24.85 | 1341.42 35.08 | 1335.46 52.98

806+50.00

1347.76

1331.93 66.83 | 1342.52 35.08 | 1345.93 24.85 | 1345.92 24.85 | 1342.52 35.08 | 1337.19 51.07

806+25.00

1348.93

1333.75 64.89 | 1343.69 35.08 | 1347.10 24.85 | 1347.10 24.85 | 1343.69 35.08 | 1340.45 44.80 | 1340.52 45.82

806+00.00

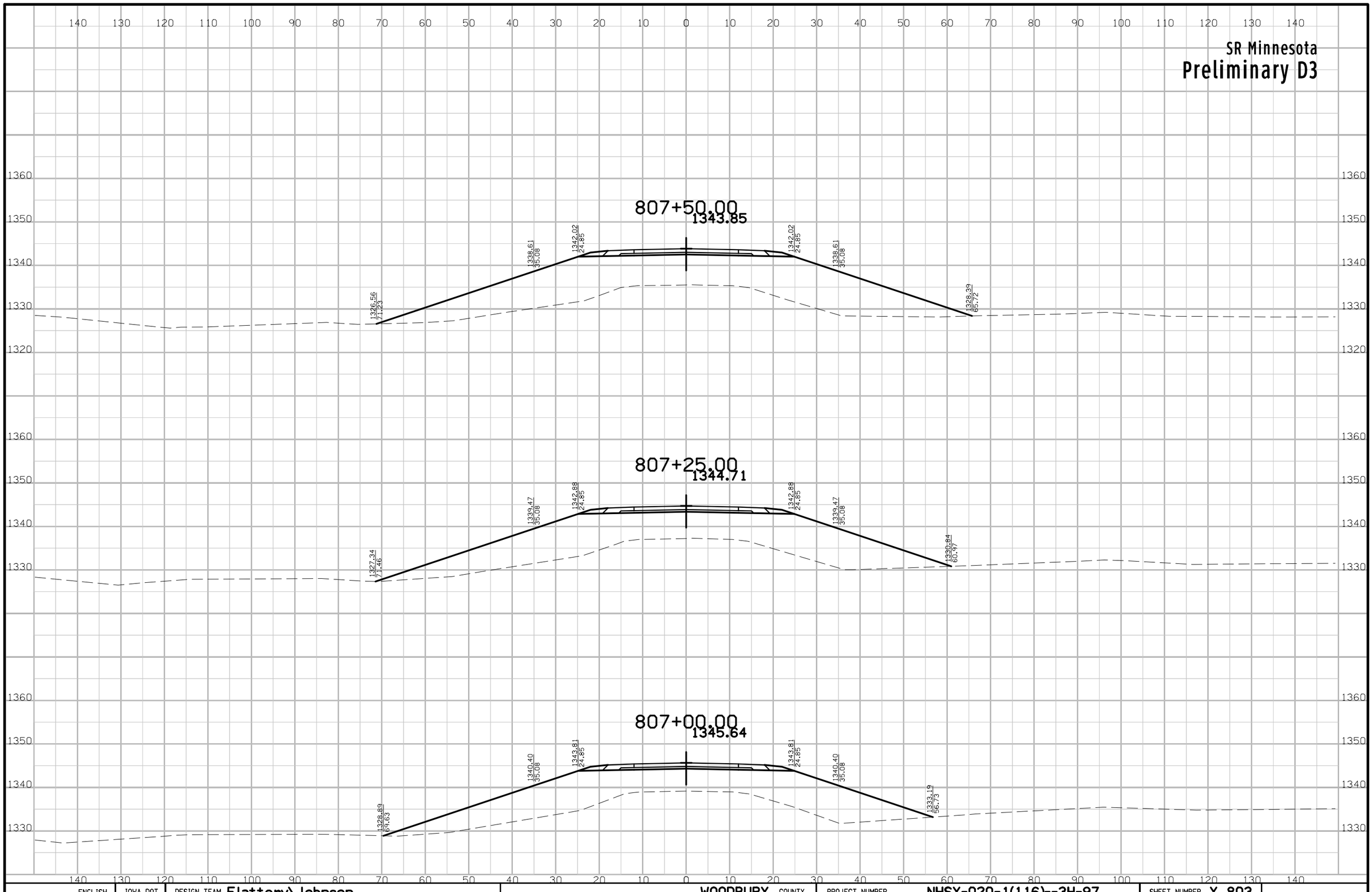
1350.18

1335.66 62.93 | 1344.94 35.08 | 1348.35 24.85 | 1348.35 24.85 | 1344.94 35.08 | 1342.40 42.70 | 1342.40 42.70 | 1349.14 54.93

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.802

8:10:28 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota
Preliminary D3

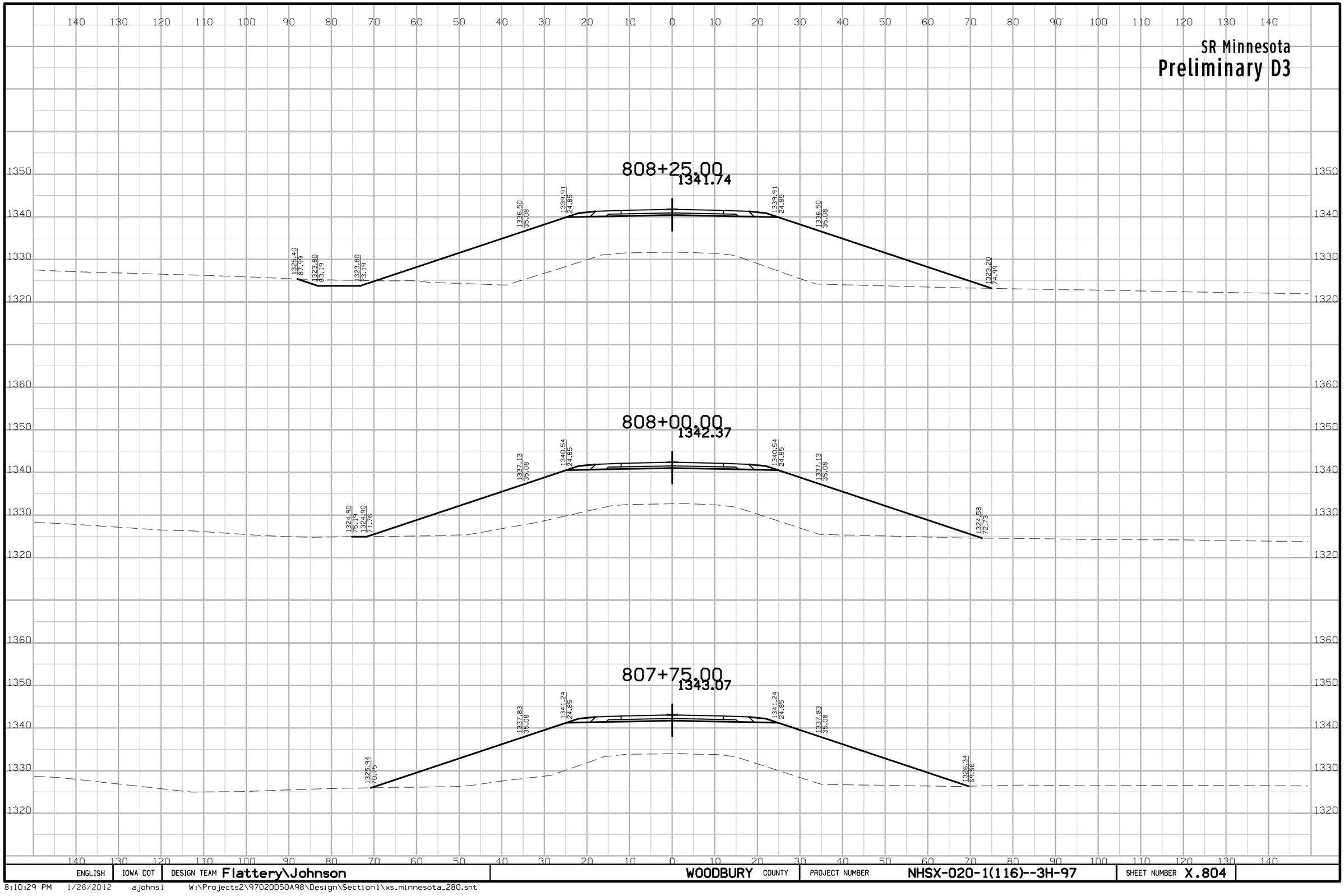


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.803

8:10:29 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.804

8:10:29 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota
Preliminary D3

809+00.00
1340.34

808+75.00
1340.73

808+50.00
1341.20

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER X.805

8:10:30 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota
Preliminary D3

809+75.00
1339.65

1322.46
112.49
1317.20
96.71
1317.20
86.71
1334.41
35.08
1337.82
24.85
1337.82
24.85
1334.41
35.08
1313.15
98.87
1313.15
108.87
1314.09
111.67

809+50.00
1339.80

1322.86
107.56
1318.30
93.87
1318.30
83.87
1334.56
35.08
1337.97
24.85
1337.97
24.85
1334.56
35.08
1315.10
93.47
1315.10
103.47
1316.40
107.38

809+25.00
1340.03

1323.33
103.06
1319.40
91.26
1319.40
81.26
1334.79
35.08
1338.20
24.85
1338.20
24.85
1334.79
35.08
1317.05
88.32
1317.05
98.32
1317.49
99.65

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.806

8:10:30 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

810+50.00

1339.66

1334.42 / 35.08 — 1337.83 / 24.85 — 1337.83 / 24.85 — 1334.42 / 35.08

1317.87 / 102.97 — 1316.50 / 98.85 — 1316.50 / 88.85

1307.40 / 116.15

810+25.00

1339.58

1334.84 / 35.08 — 1337.75 / 24.85 — 1337.75 / 24.85 — 1334.84 / 35.08

1321.36 / 122.17 — 1315.00 / 103.41 — 1315.00 / 93.41

1299.30 / 140.20

810+00.00

1339.58

1334.84 / 35.08 — 1337.75 / 24.85 — 1337.74 / 24.85 — 1334.84 / 35.08

1322.01 / 117.52 — 1316.10 / 99.79 — 1316.10 / 89.79

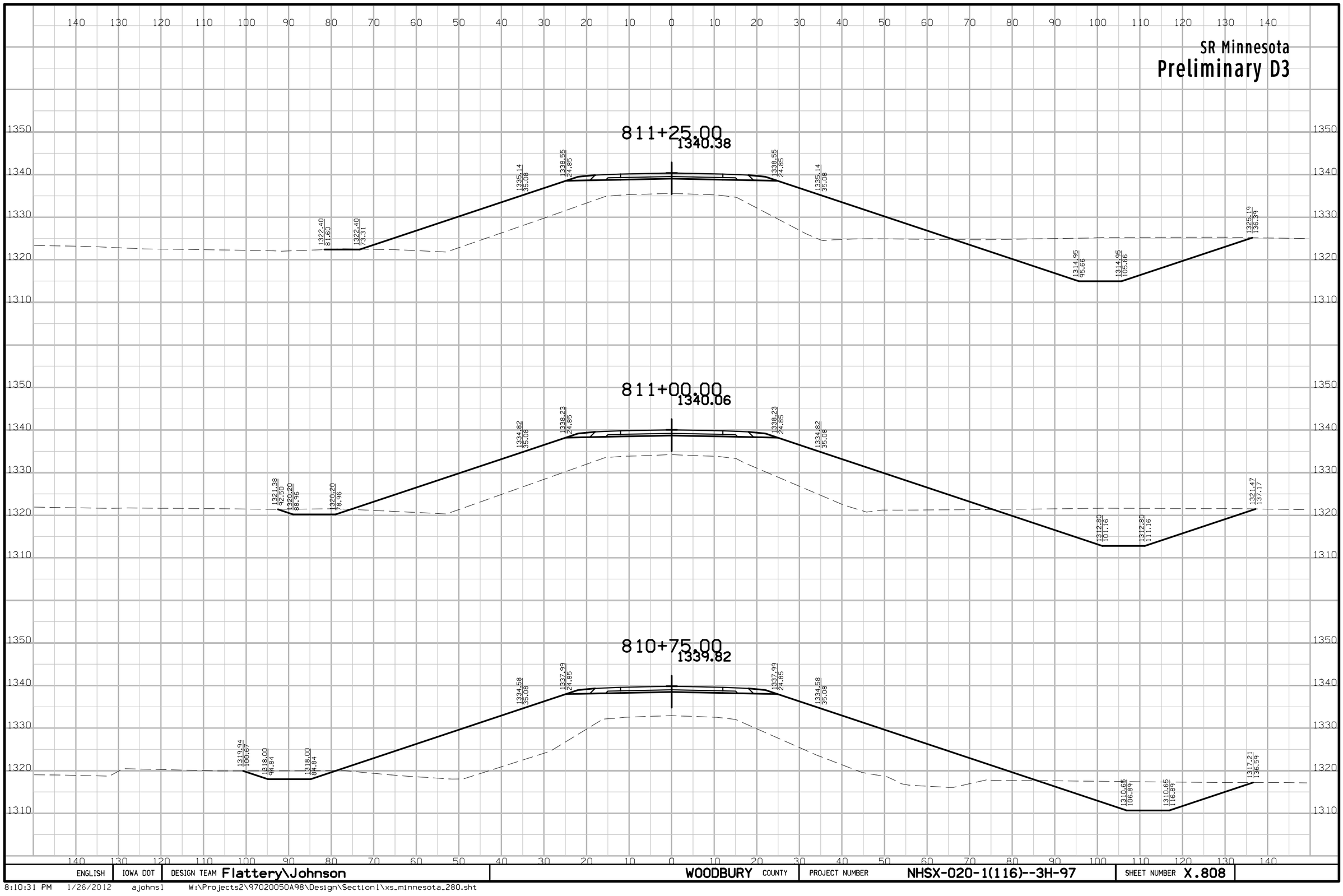
1311.60 / 103.29 — 1311.60 / 93.29 — 1307.51 / 115.41

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.807

8:10:30 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

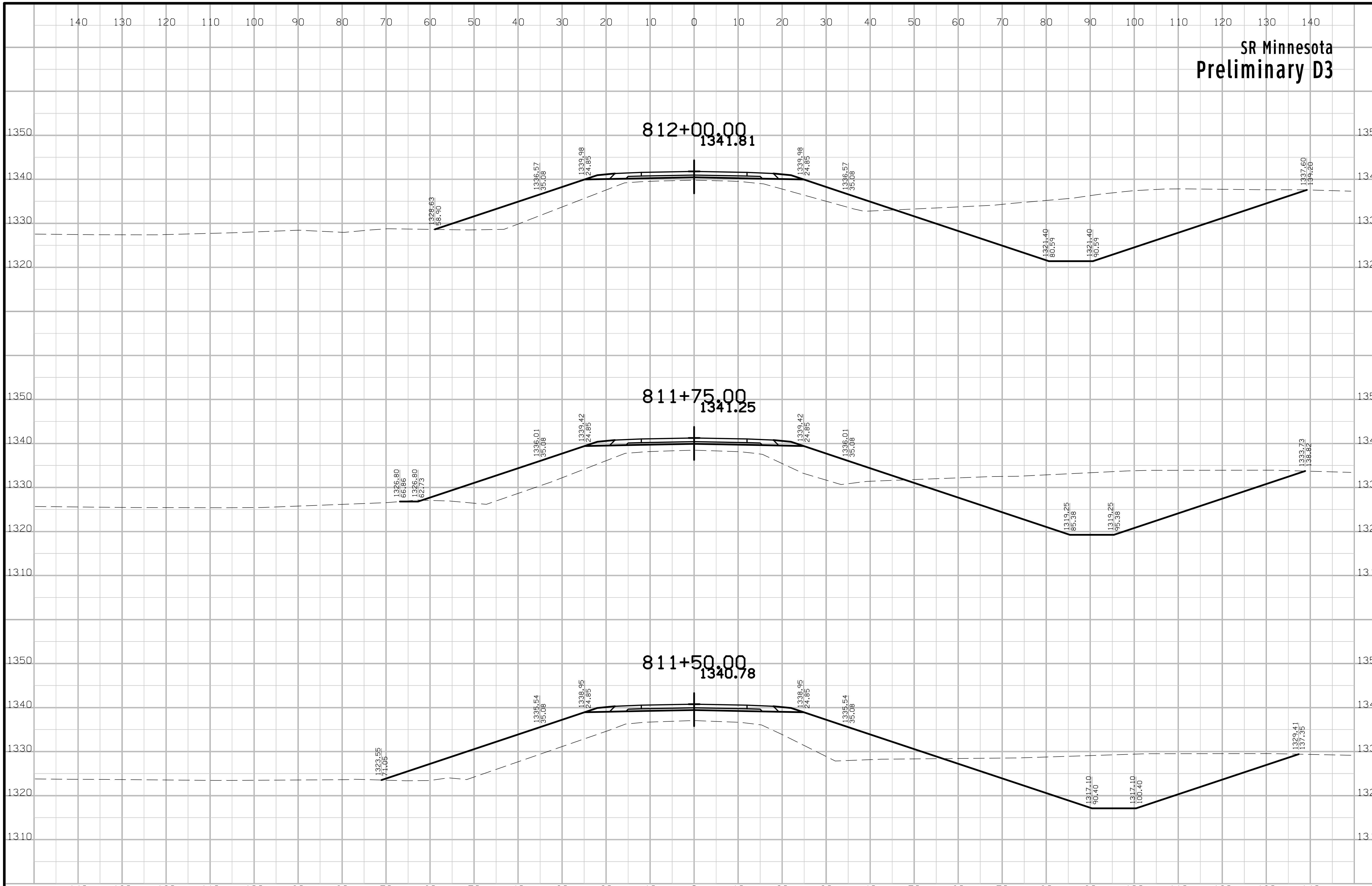
SR Minnesota

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.808

8:10:31 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

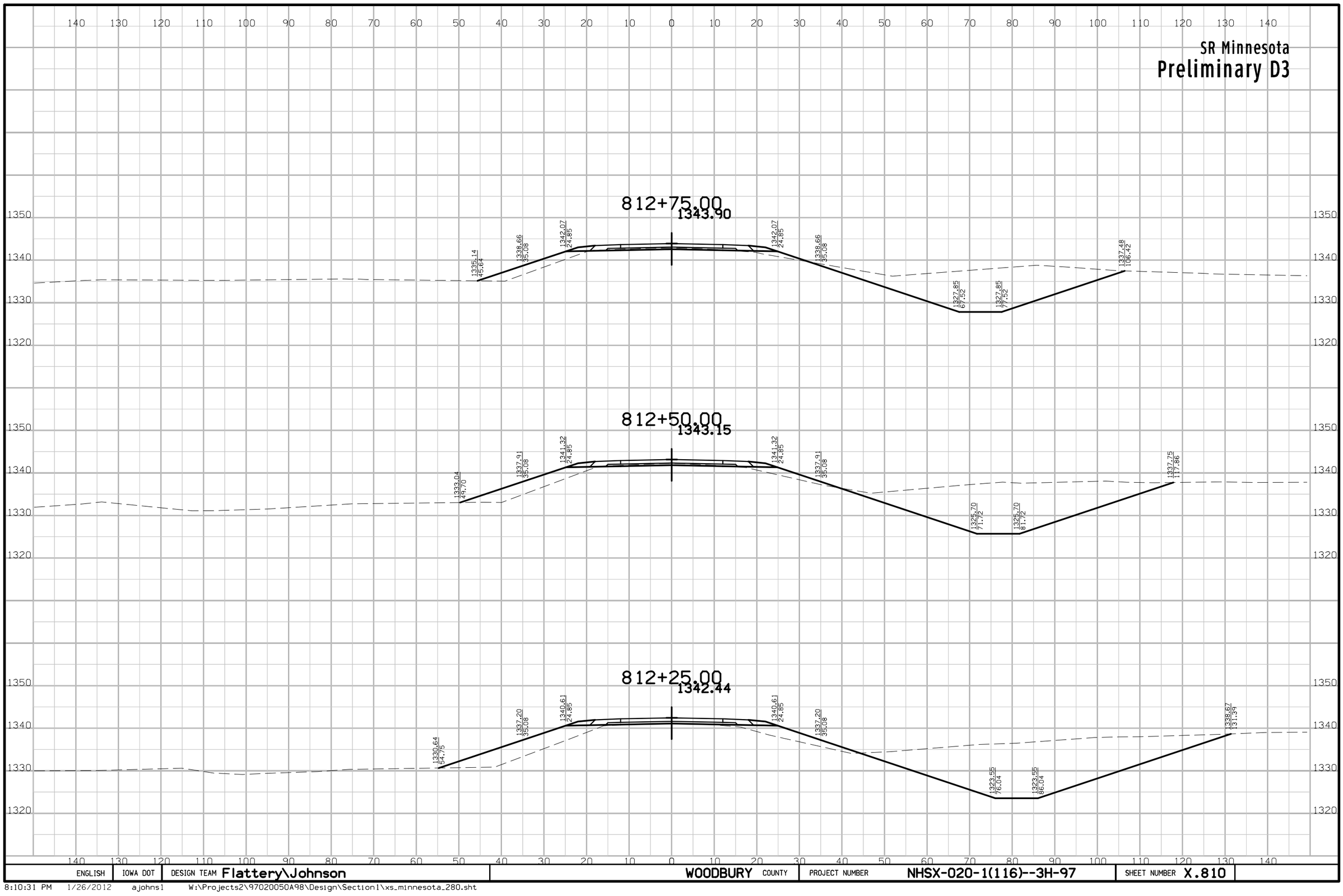


ENGLISH	IOWA DOT	DESIGN TEAM **Flattery\Johnson**	**WOODBURY** COUNTY	PROJECT NUMBER **NHSX-020-1(116)--3H-97**	SHEET NUMBER **X.809**

8:10:31 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

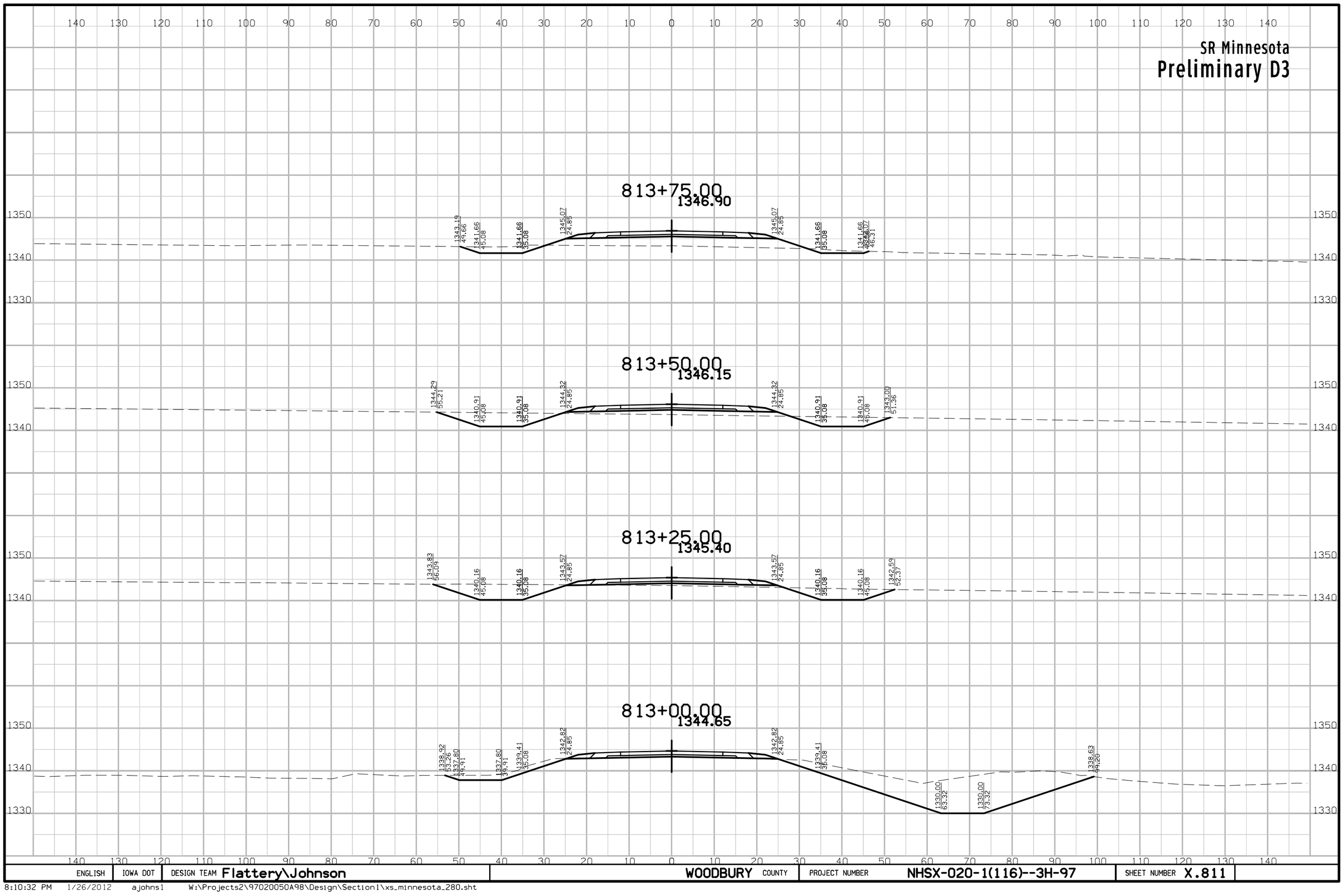


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.810

8:10:31 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

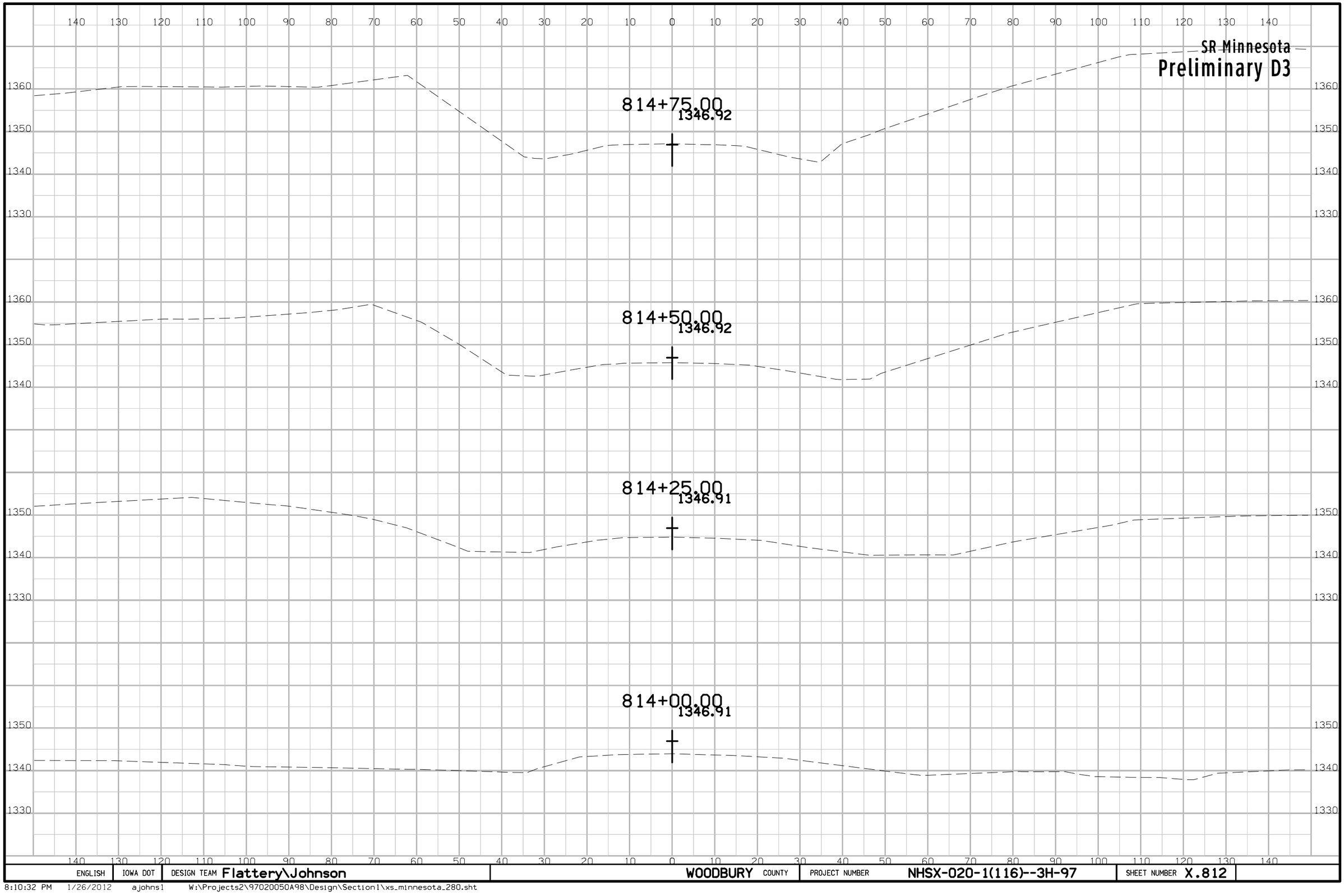


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.811

8:10:32 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

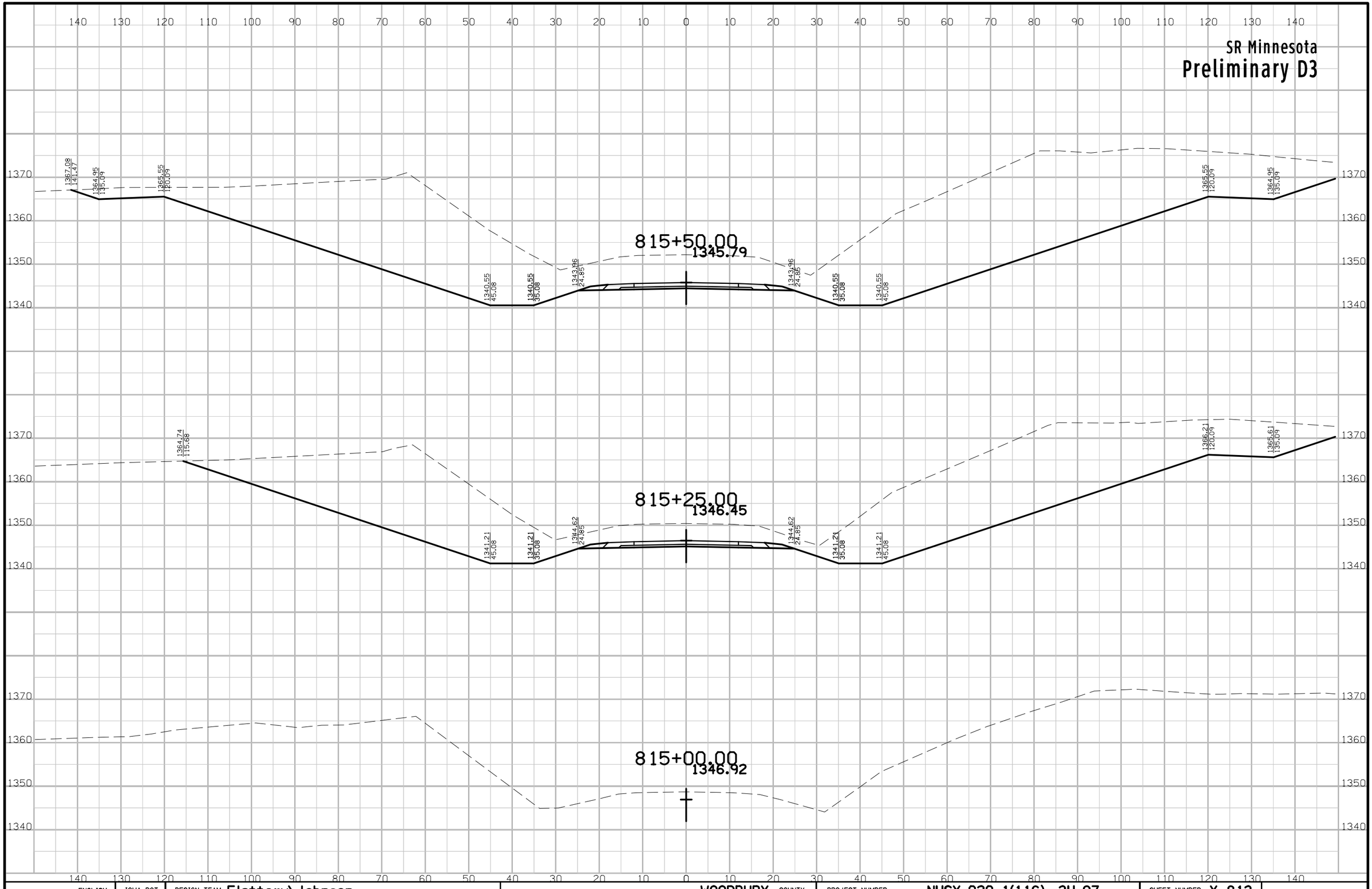


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.812

8:10:32 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

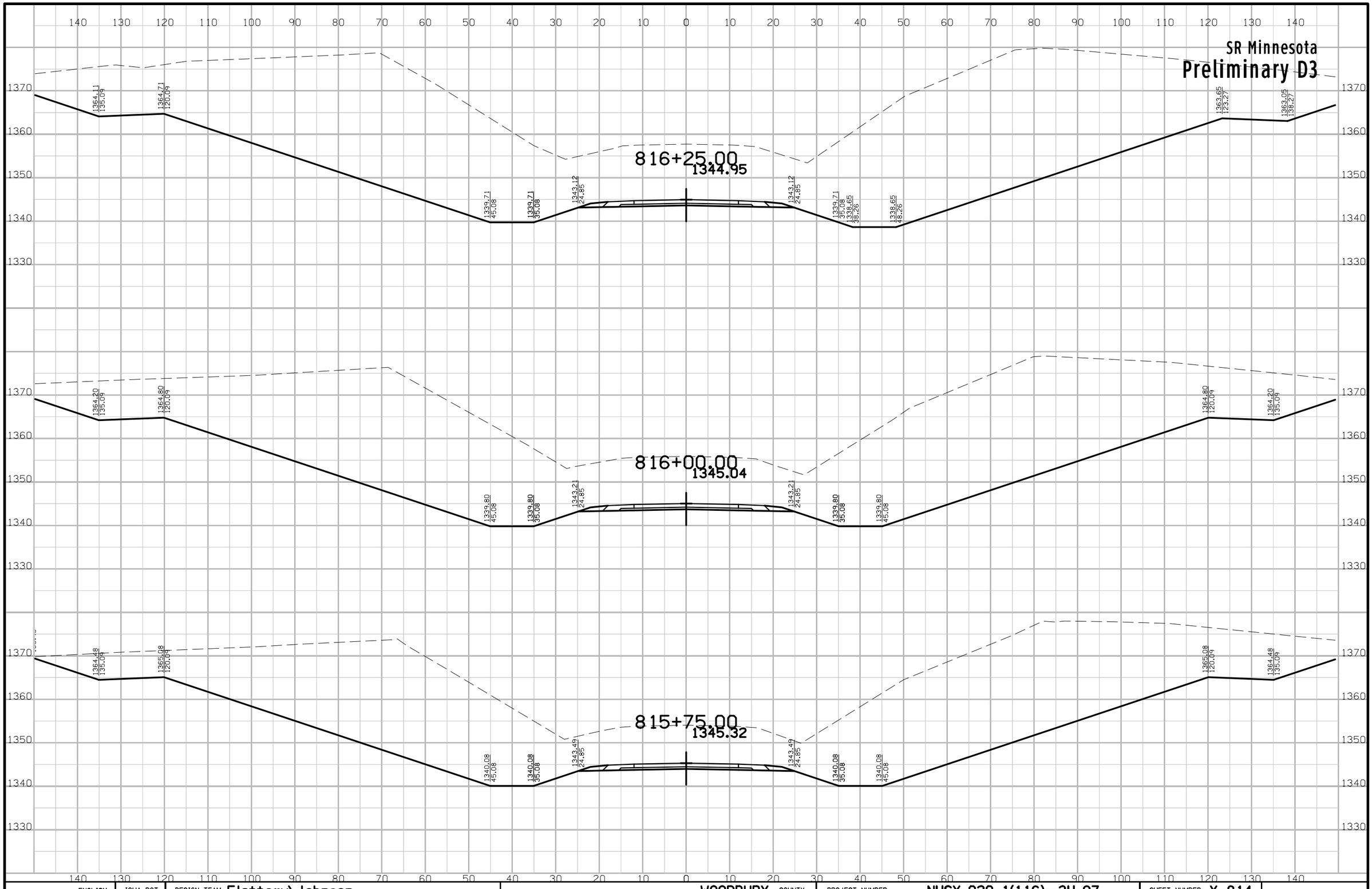


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.813

8:10:32 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.814

8:10:33 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

816+75.00
1345.33

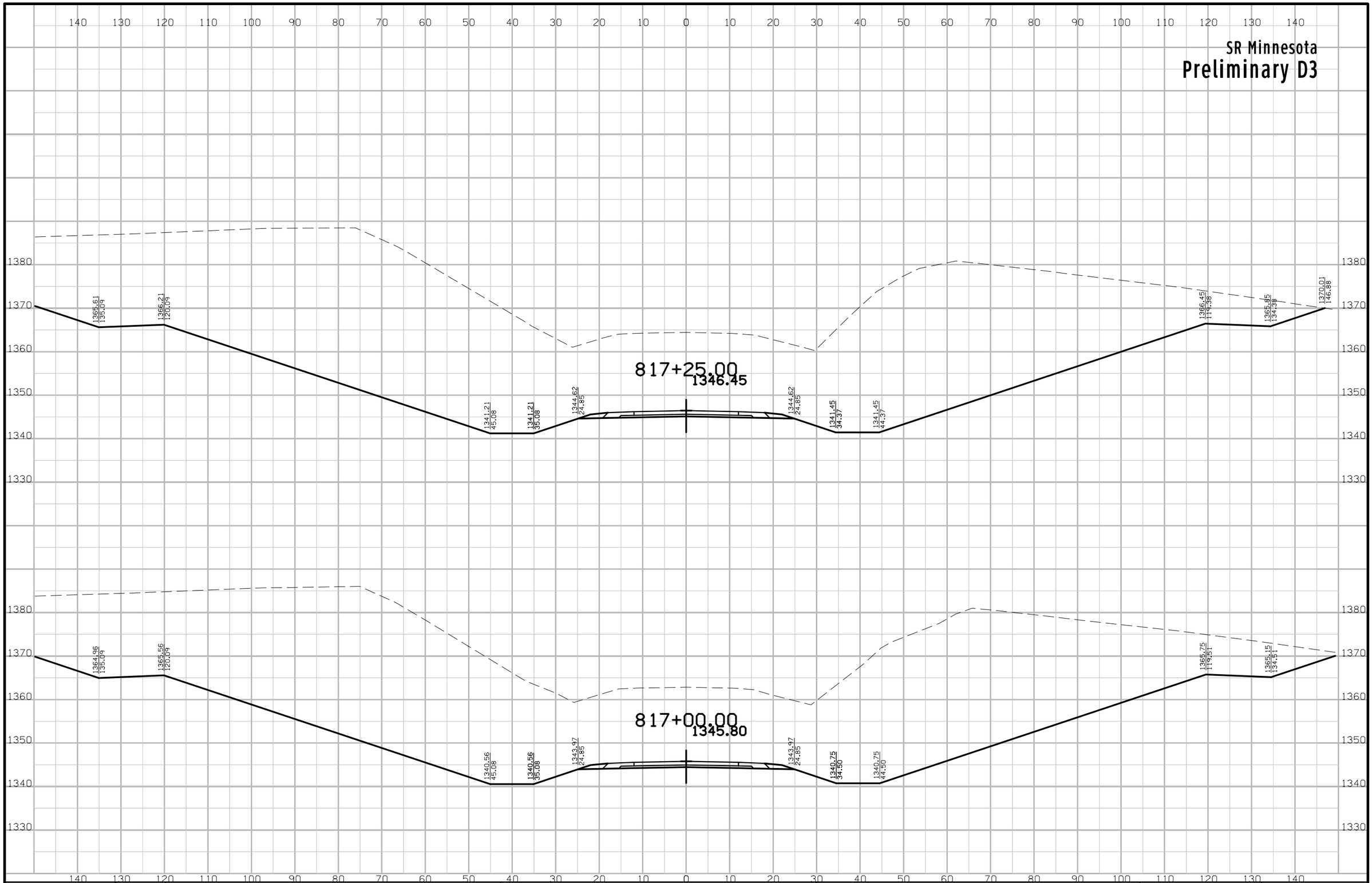
816+50.00
1345.04

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER X.815

8:10:33 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

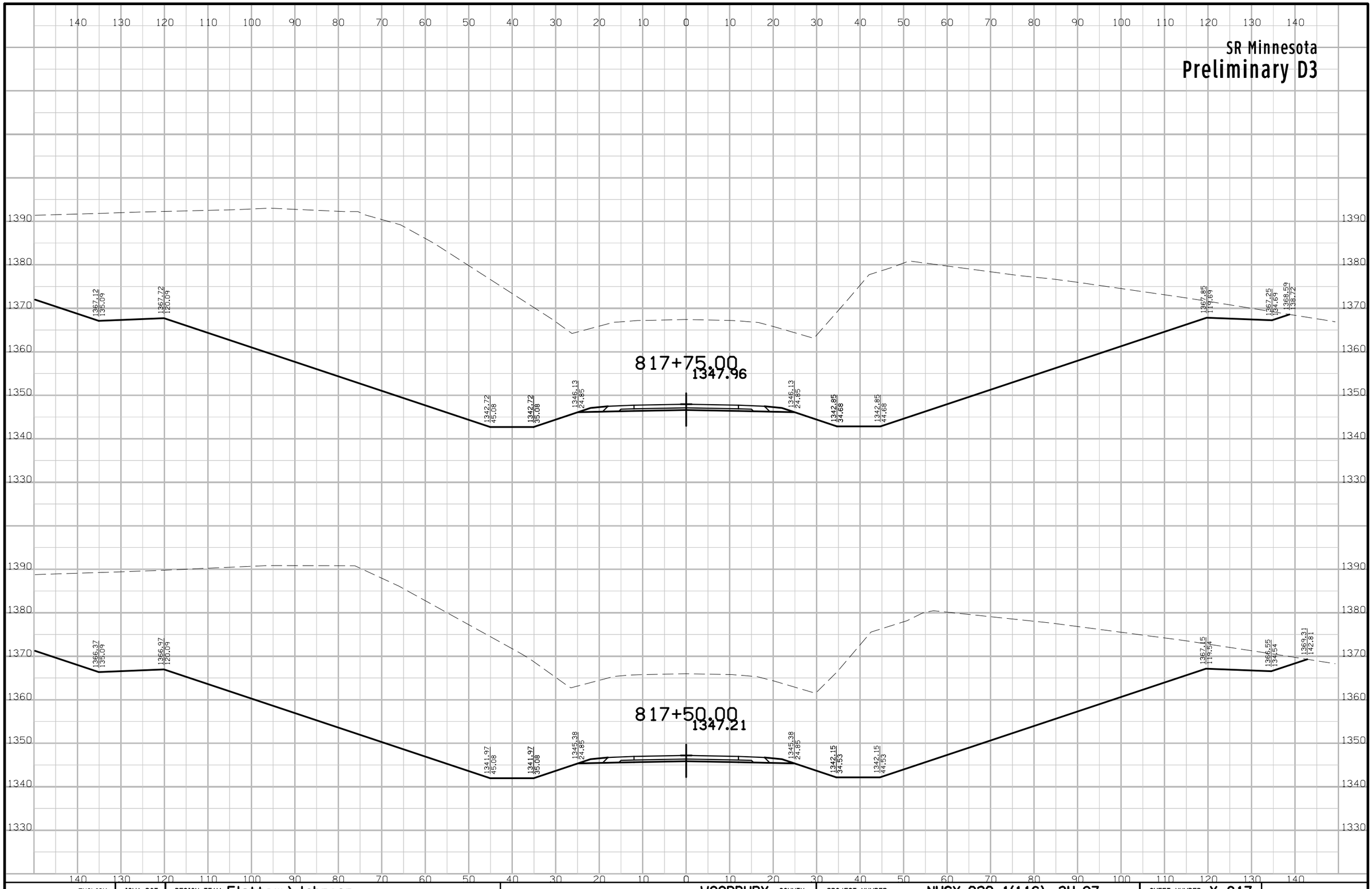


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.816

8:10:33 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

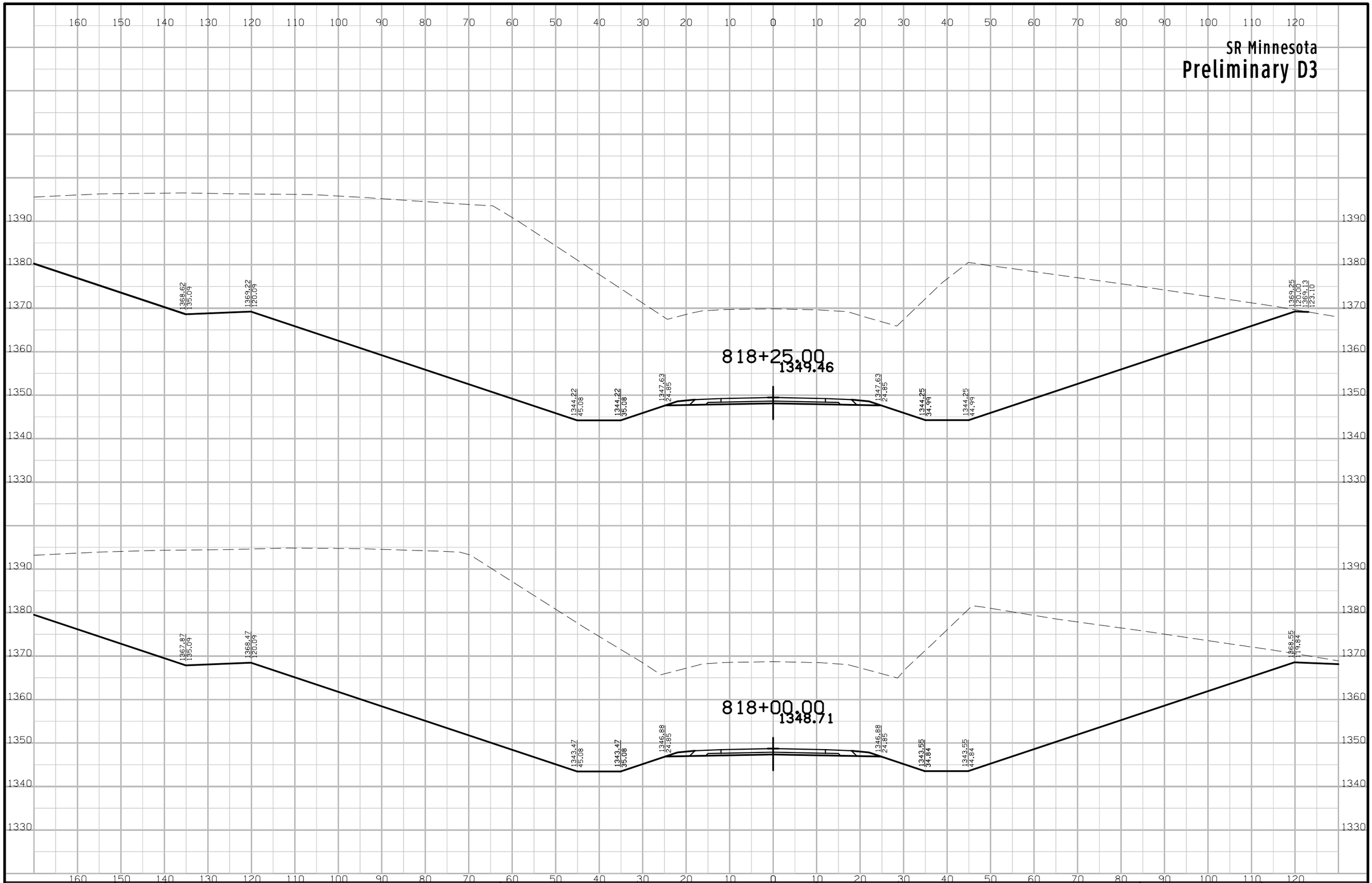


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.817

8:10:34 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

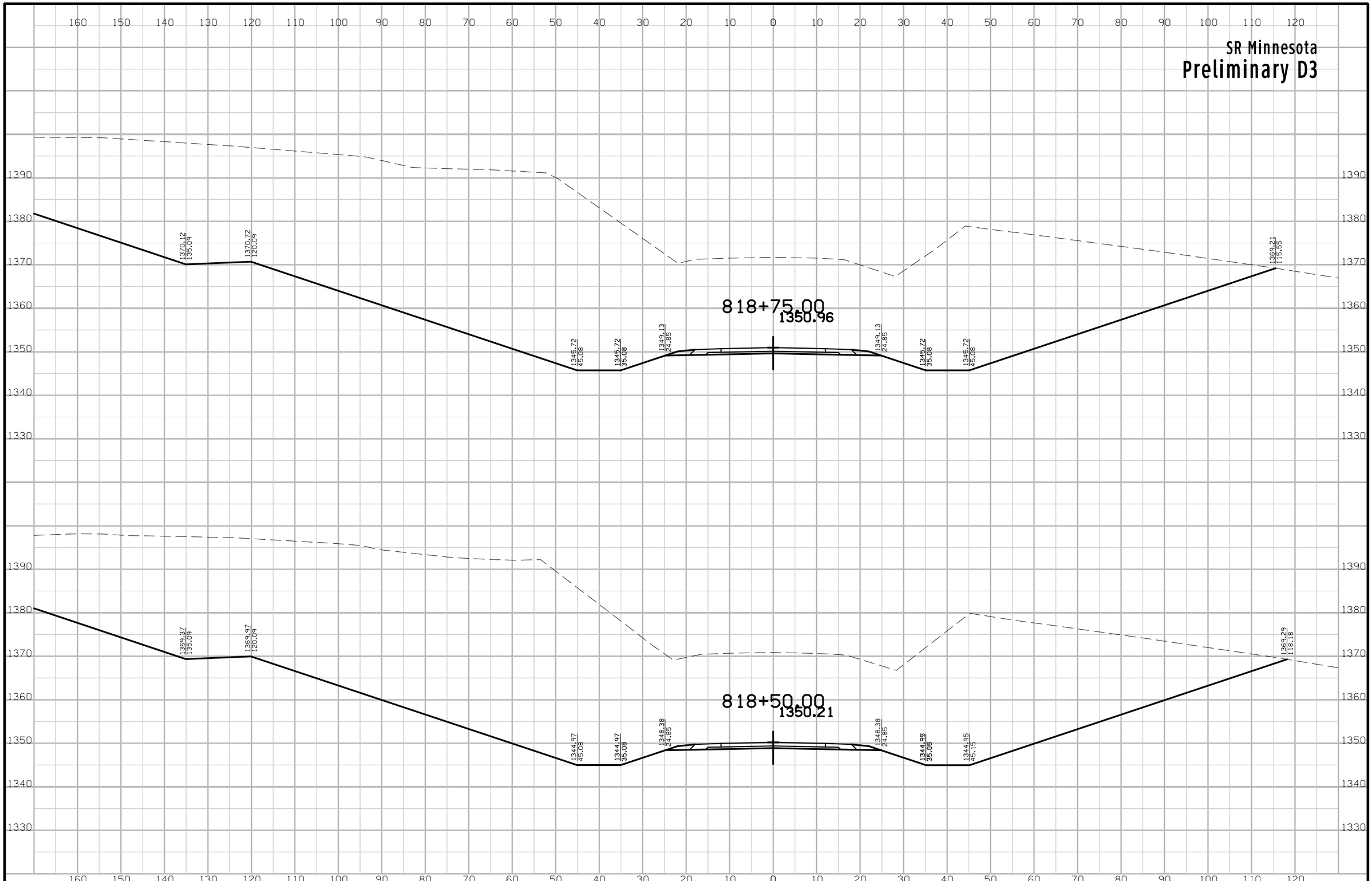


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.818

8:10:34 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

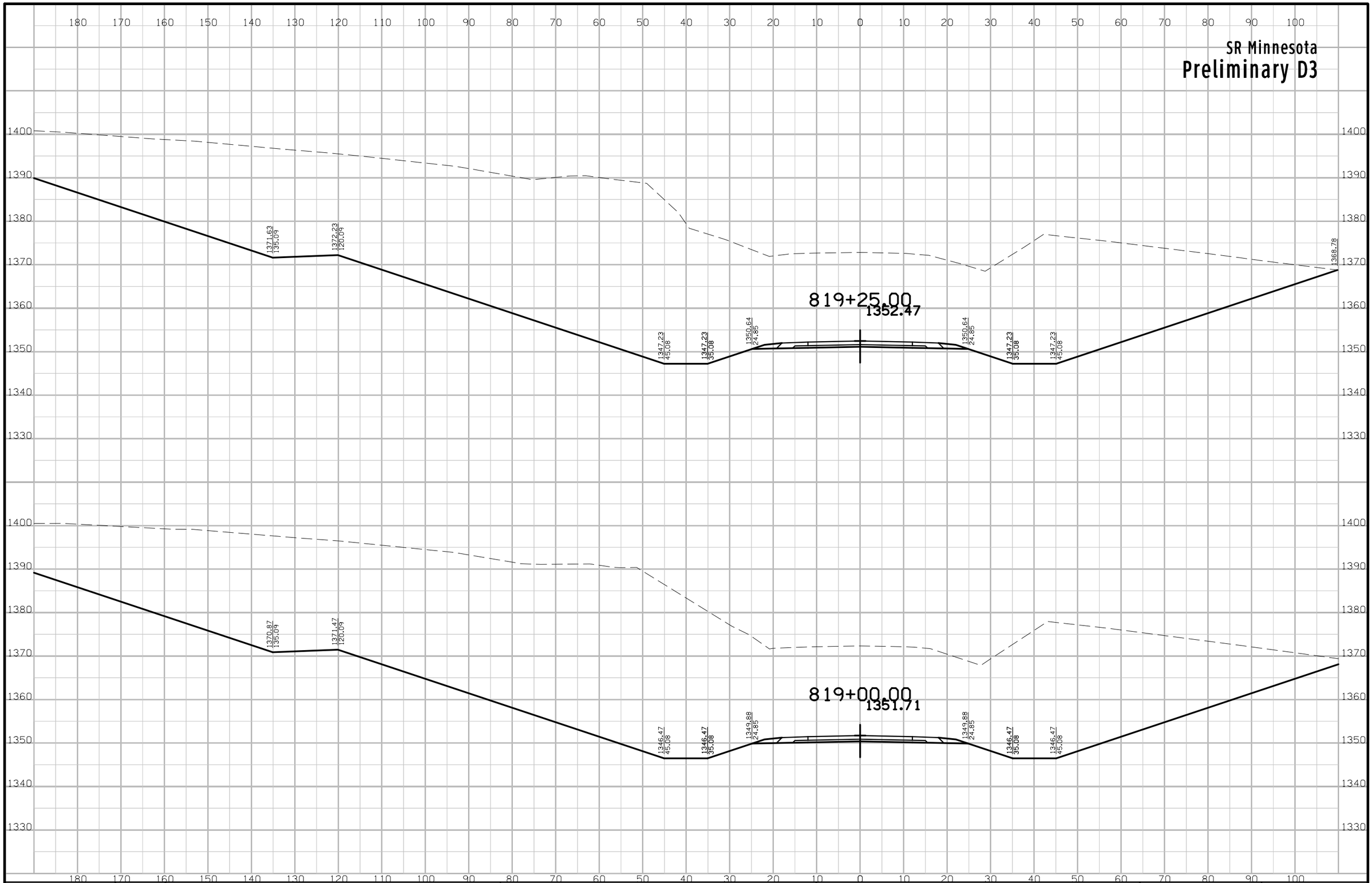


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.819

8:10:34 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

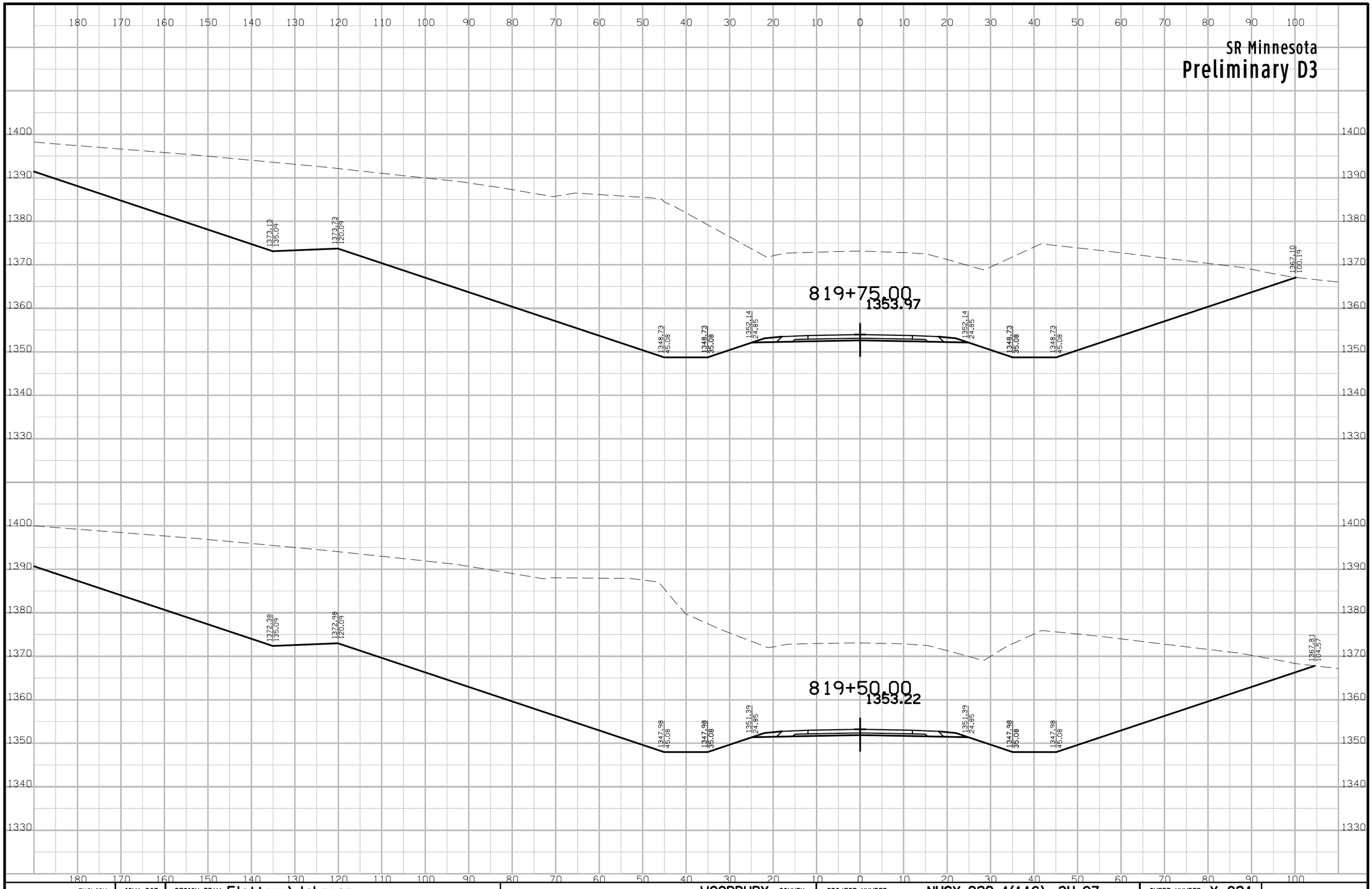


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.820

8:10:35 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

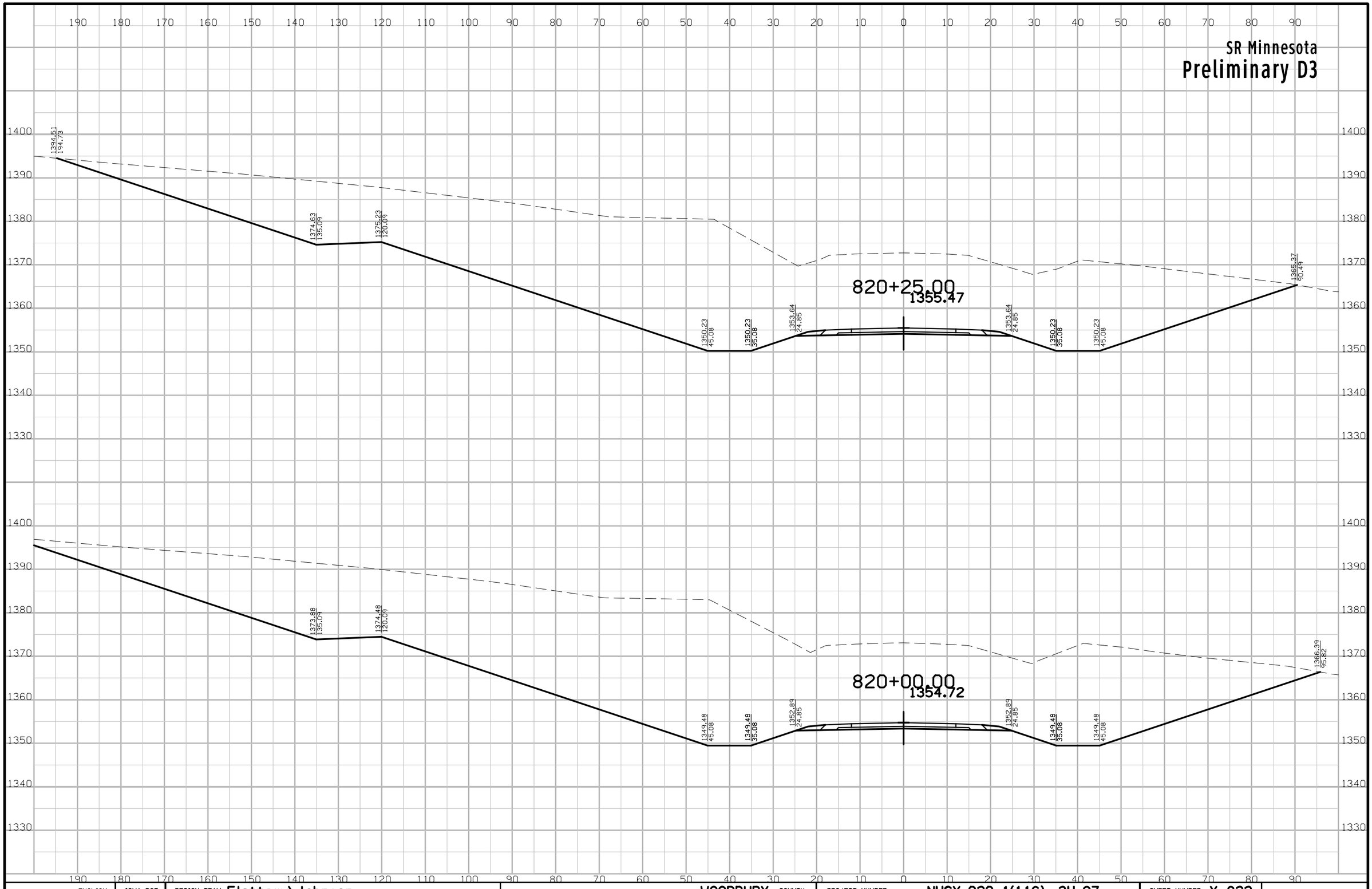


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.821

8:10:35 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

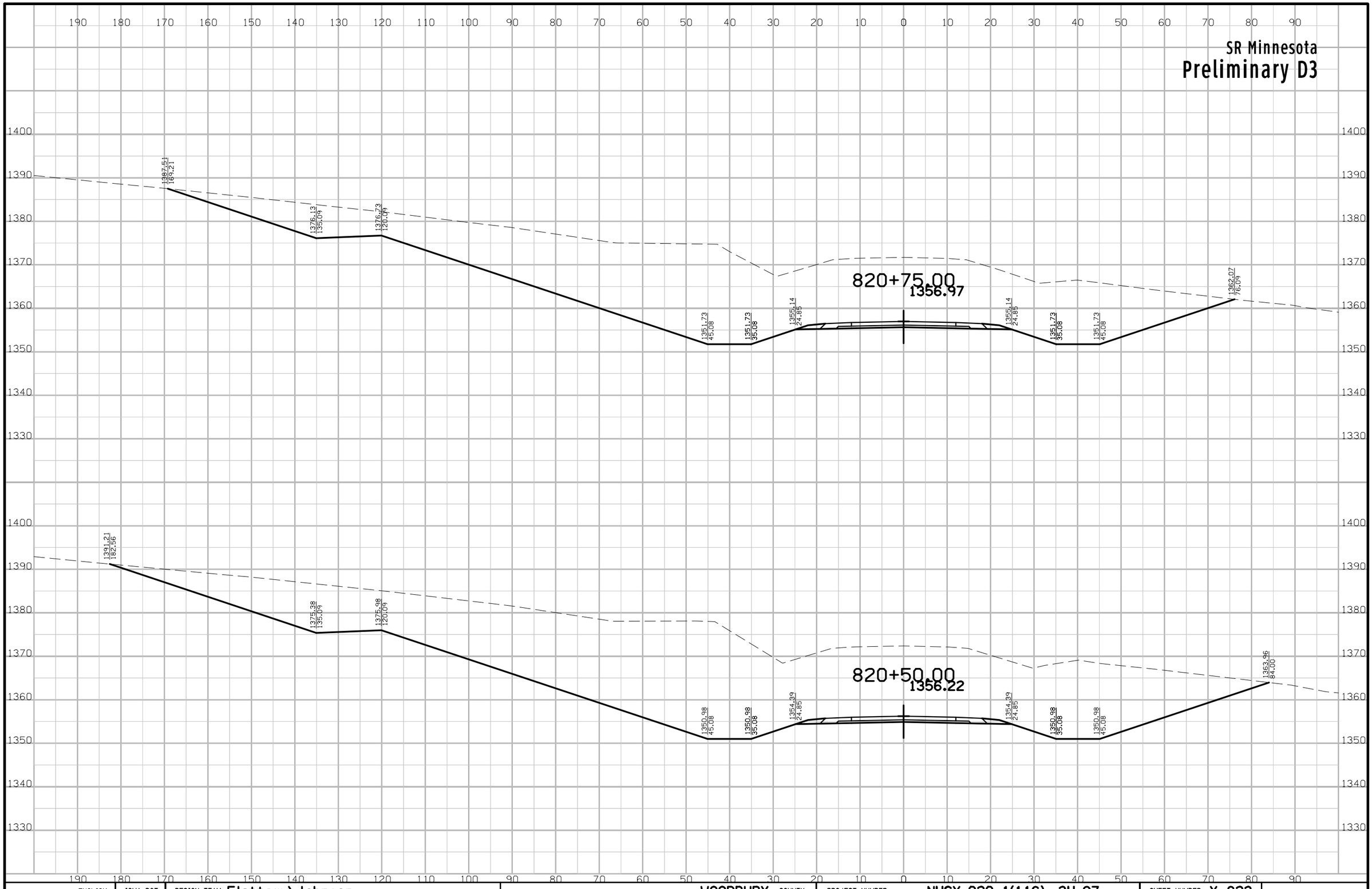


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.822

8:10:35 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

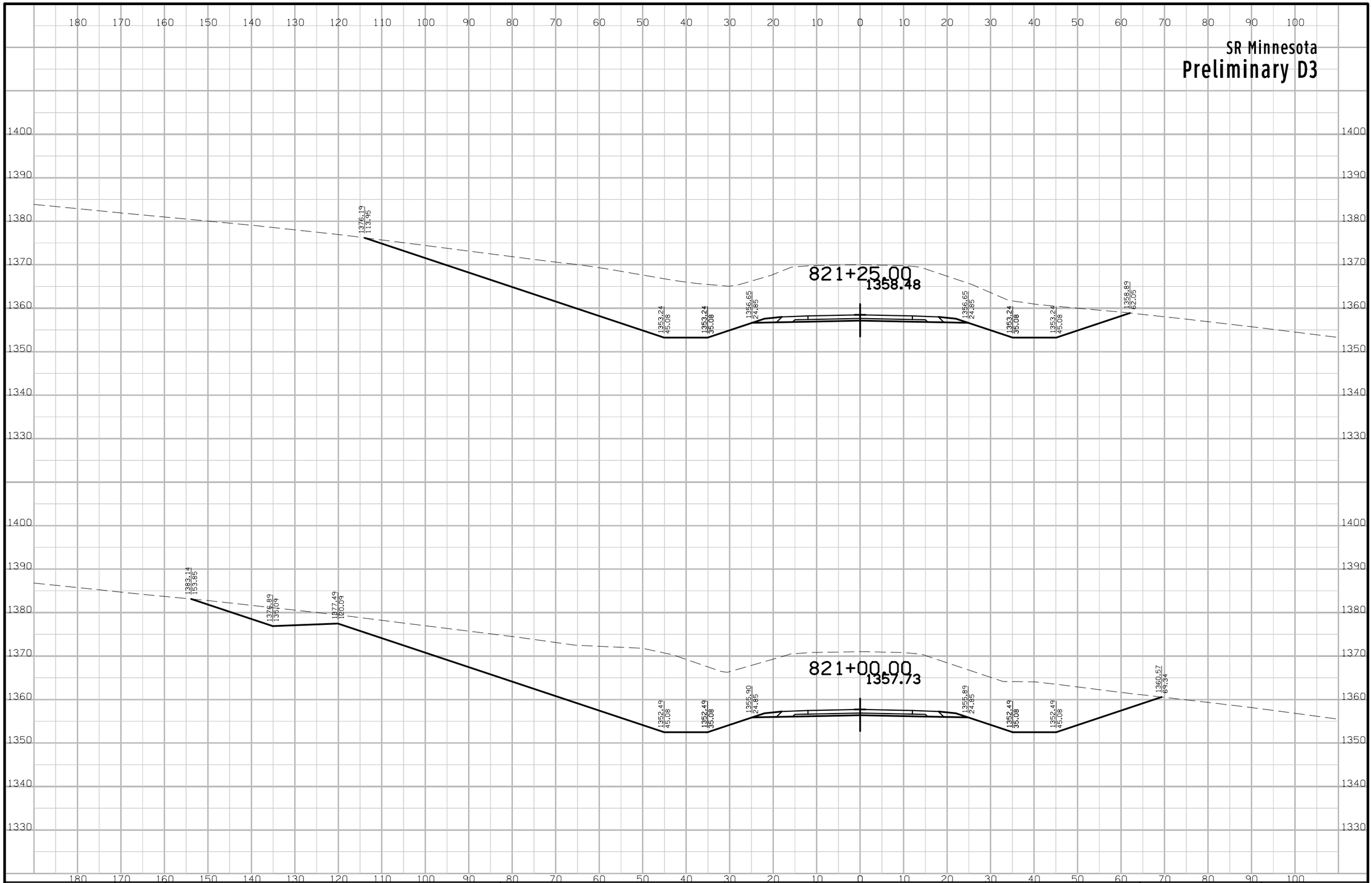


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.823

8:10:36 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

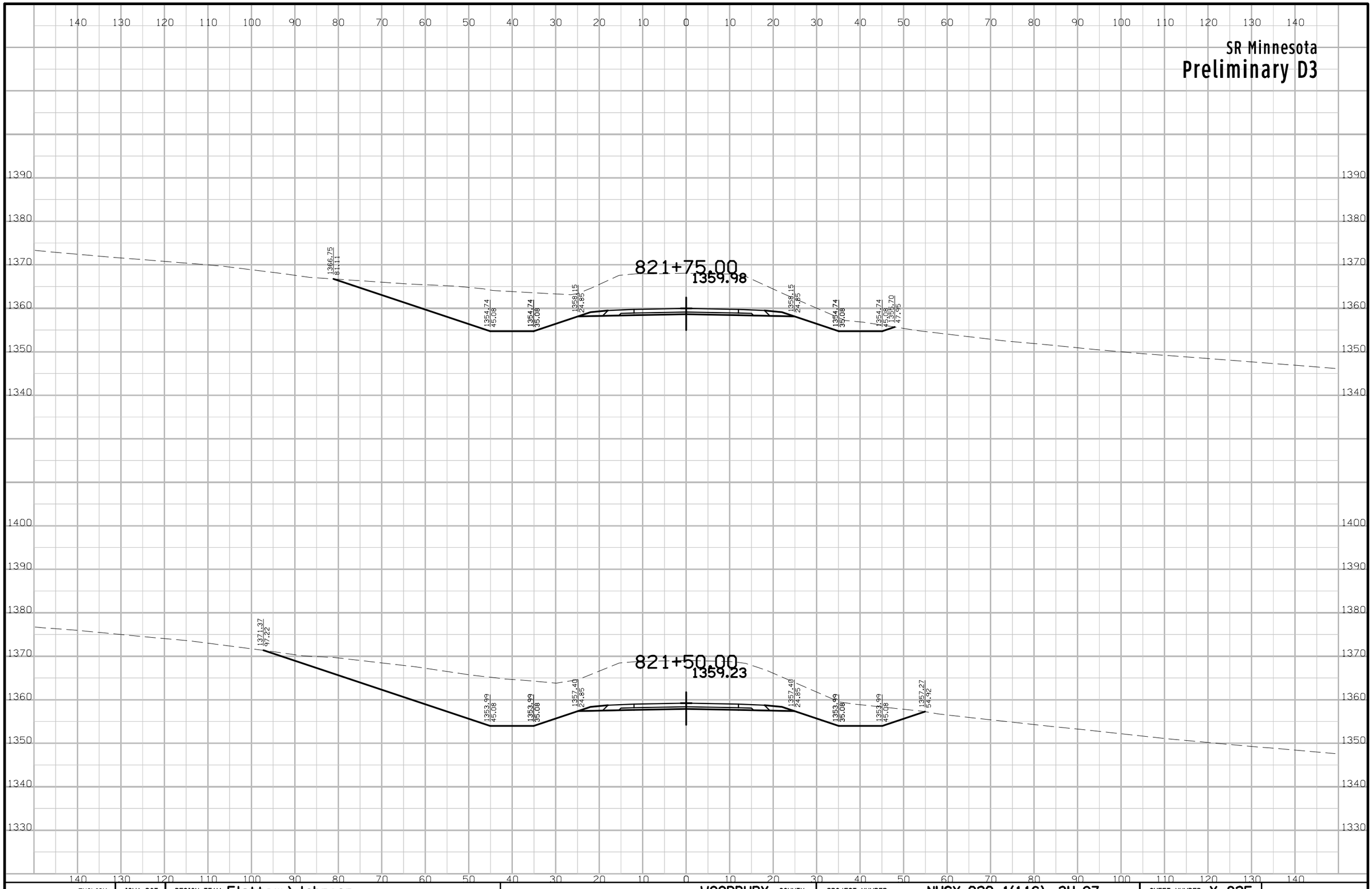


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.824

8:10:36 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

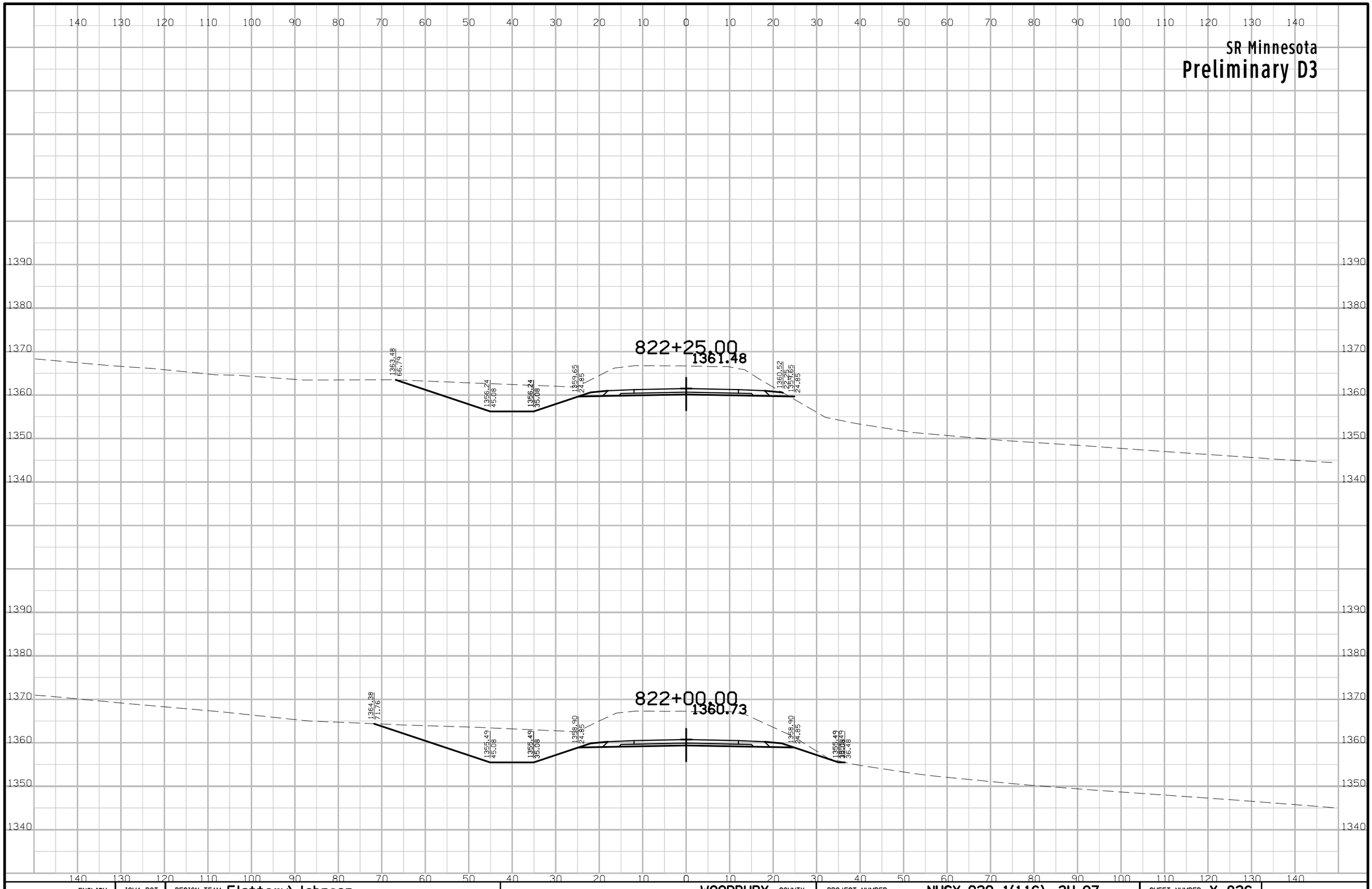


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.825

8:10:36 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

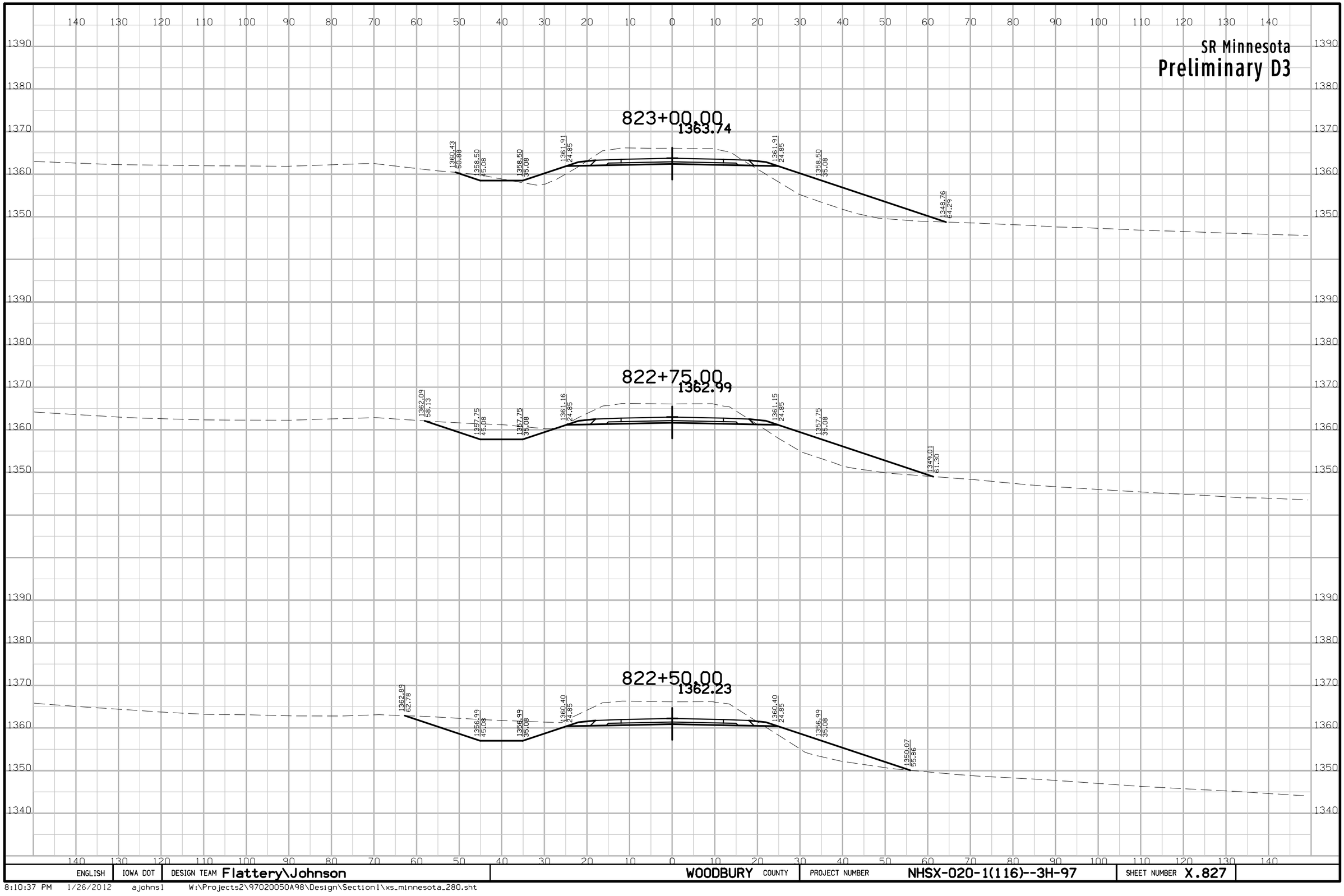


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.826

8:10:36 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

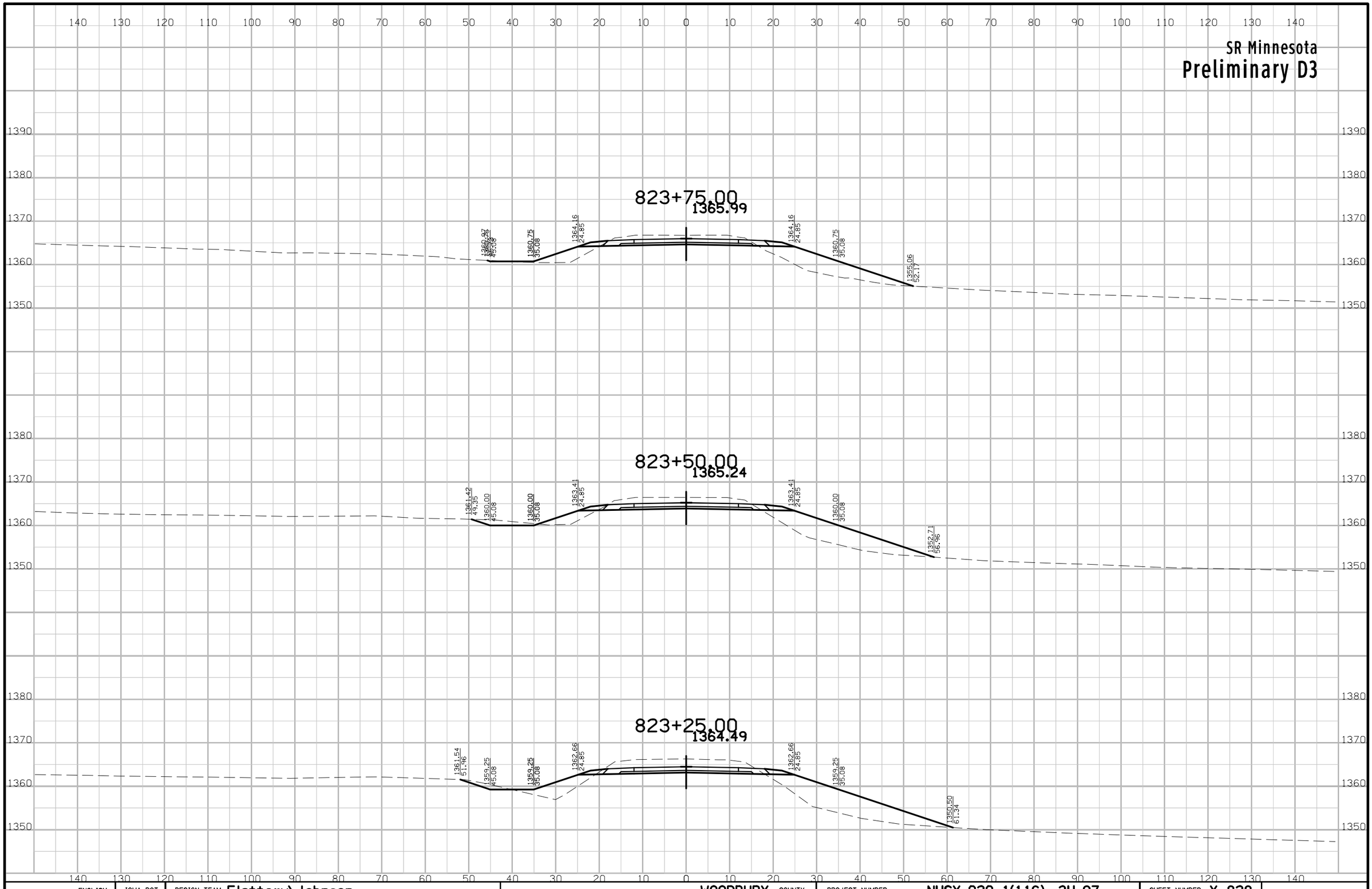
Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.827

8:10:37 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota
Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.828

8:10:37 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Minnesota

Preliminary D3

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

824+25.00

1367.49

1361.43
37.55

1365.66
24.85

1365.66
24.85

1360.97
38.93

824+00.00

1366.74

1360.65
37.63

1364.91
24.85

1364.91
24.85

1361.50
35.08

1358.28
44.76

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.829

8:10:37 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_minnesota_280.sht

SR Mason

Preliminary D3

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 1320 1310 1300

902+25.00

1299.21

1293.77 56.60

1293.76 46.60

1298.36 19.00

1298.36 19.10

1293.86 46.82

1294.07 57.10

902+00.00

1299.65

1298.94 26.55

1299.04 28.50

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.900

8:08:17 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

902+75.00

1298.93

902+50.00

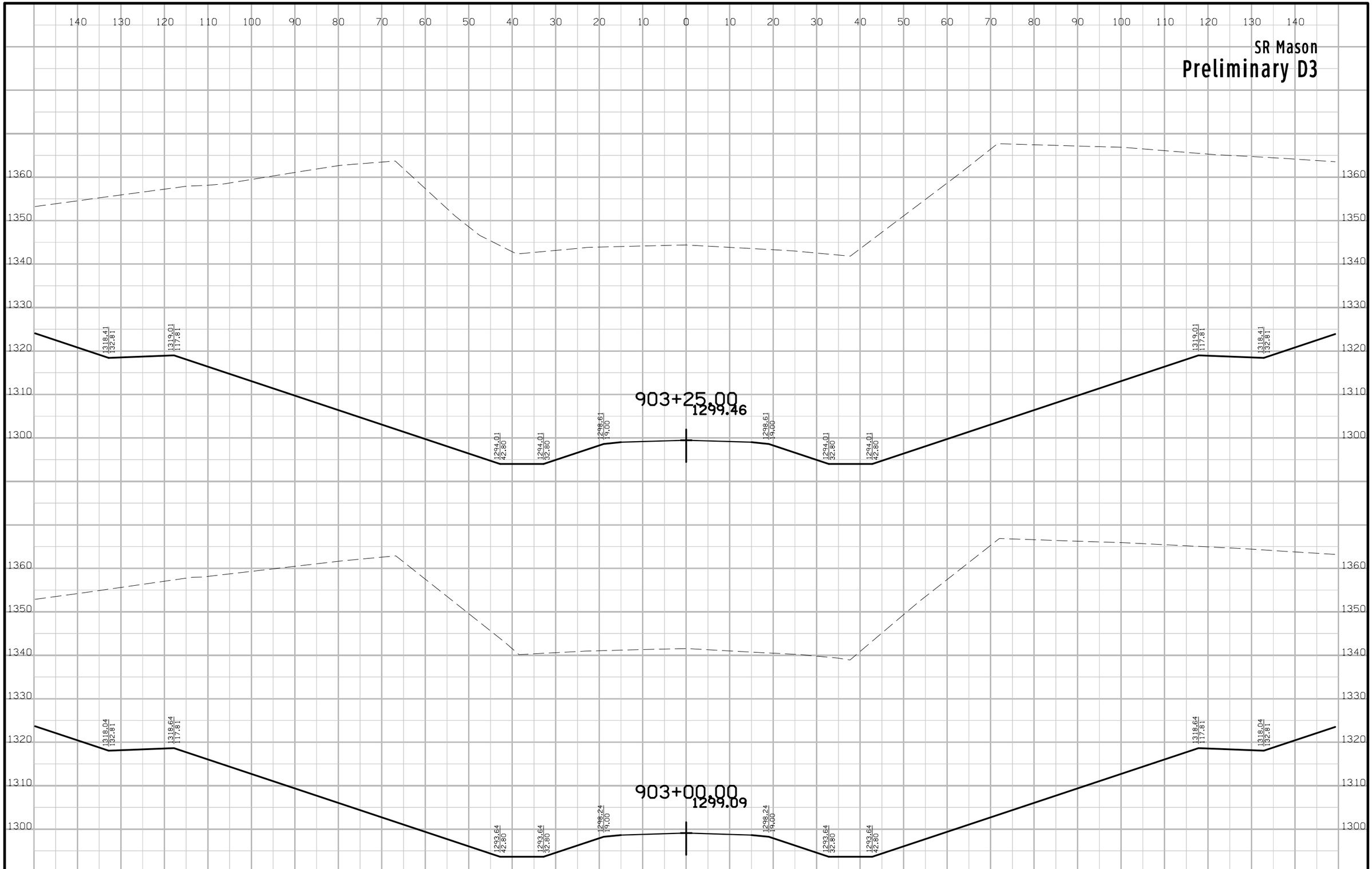
1298.97

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.901

8:08:18 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.902

8:08:18 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

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 1320 1310 1300

1319.76 / 132.81
1320.36 / 117.81
1295.36 / 42.80
1295.36 / 32.80
1299.96 / 19.00
1299.96 / 19.00
1295.36 / 32.80
1295.36 / 42.80
1320.36 / 117.81
1319.76 / 132.81

903+75.00
1300.81

1318.99 / 132.81
1319.59 / 117.81
1294.59 / 42.80
1294.59 / 32.80
1299.19 / 19.00
1299.19 / 19.00
1294.59 / 32.80
1294.59 / 42.80
1319.59 / 117.81
1318.99 / 132.81

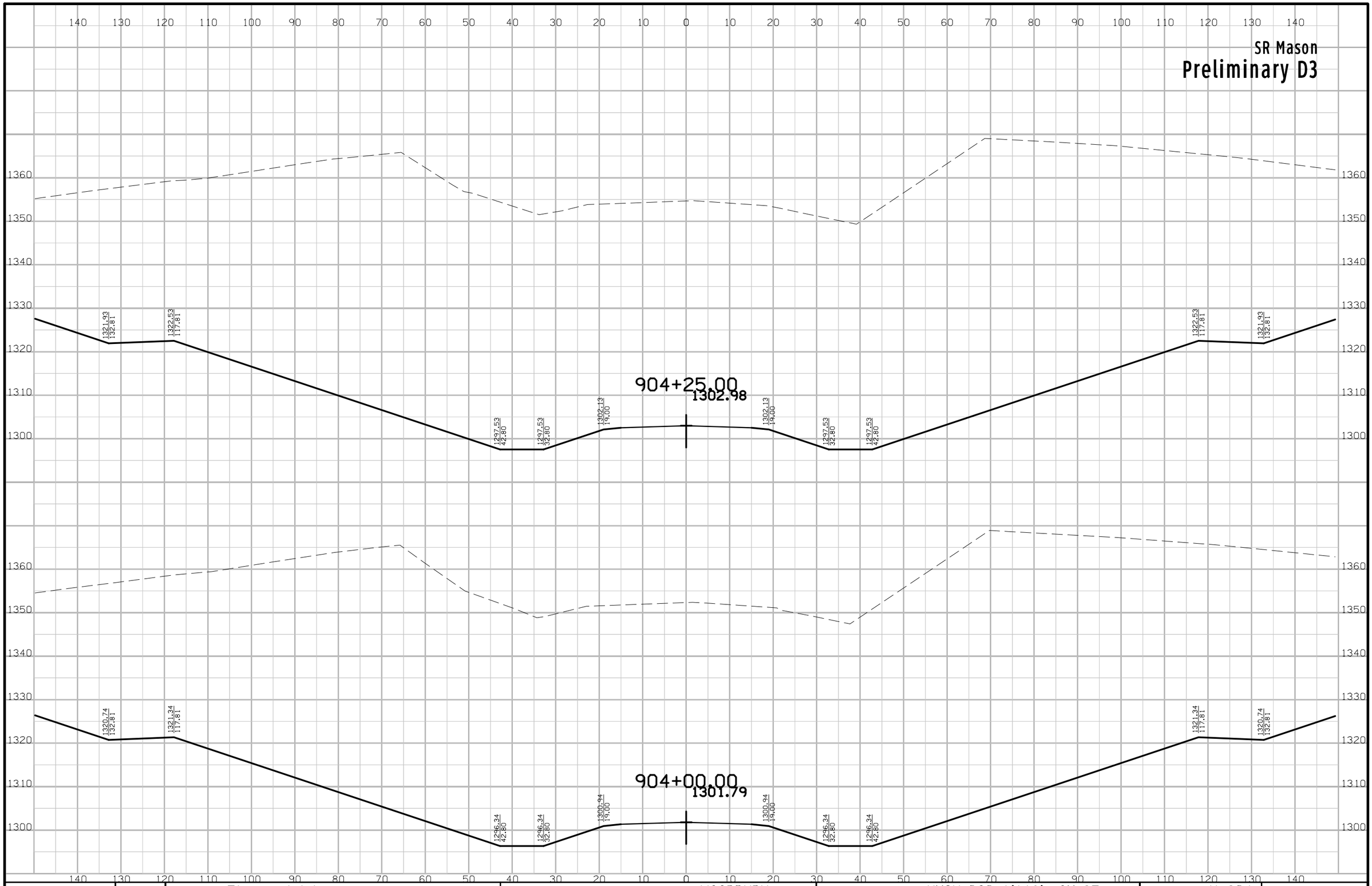
903+50.00
1300.04

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.903

8:08:18 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.904

8:08:18 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

904+75.00
1305.96

904+50.00
1304.37

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER X.905

8:08:19 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

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 1320 1310

1328.70 132.81 | 1329.30 117.81 | 1304.30 42.80 | 1304.30 32.80 | 1308.90 19.00 | 1308.90 19.00 | 1304.30 32.80 | 1304.30 42.80 | 1329.30 117.81 | 1328.70 132.81

905+25.00
1309.75

1360 1350 1340 1330 1320 1310

1326.70 132.81 | 1327.30 117.81 | 1302.30 42.80 | 1302.30 32.80 | 1306.90 19.00 | 1306.90 19.00 | 1302.30 32.80 | 1302.30 42.80 | 1327.30 117.81 | 1326.70 132.81

905+00.00
1307.75

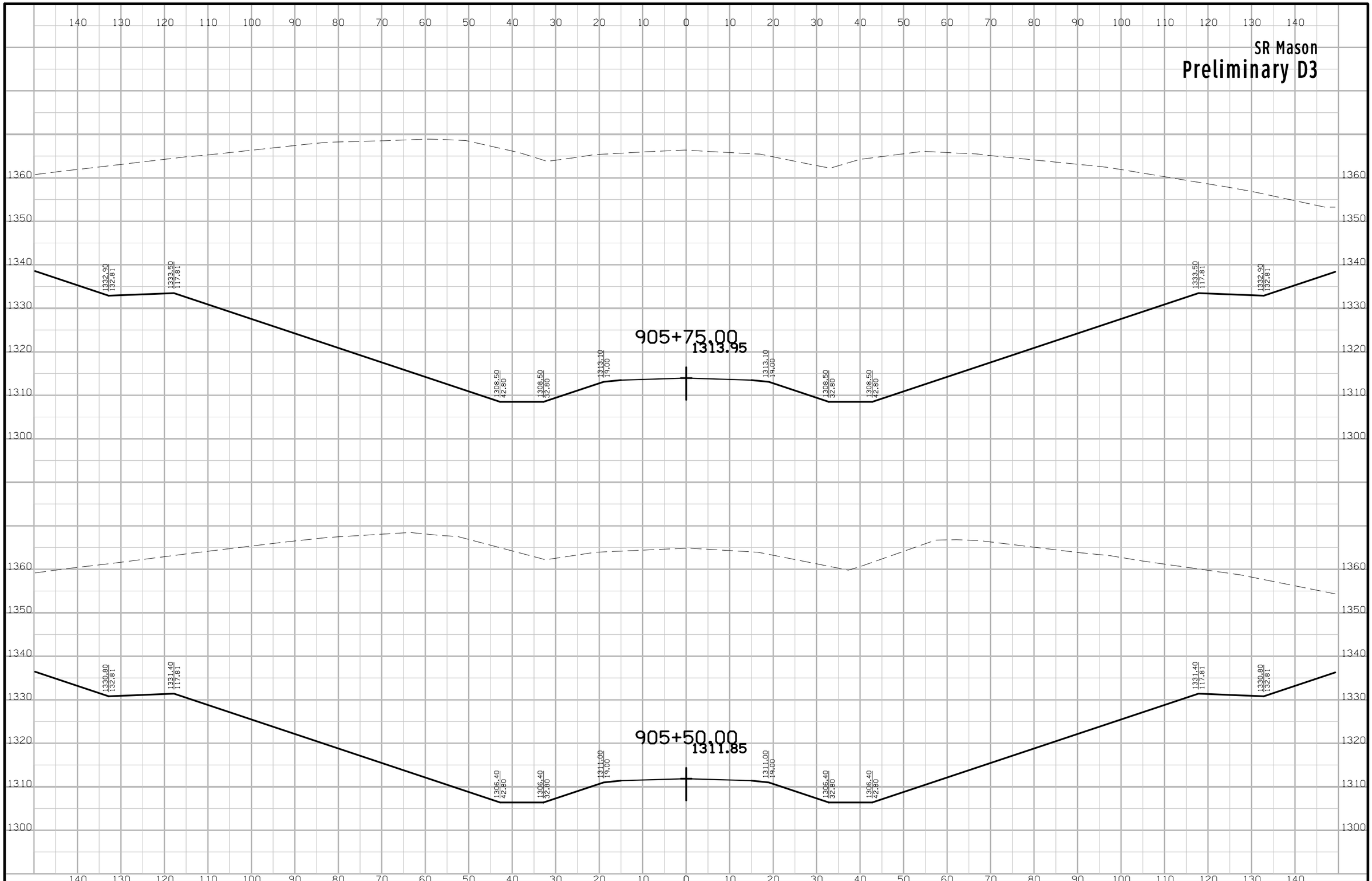
140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.906

8:08:19 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

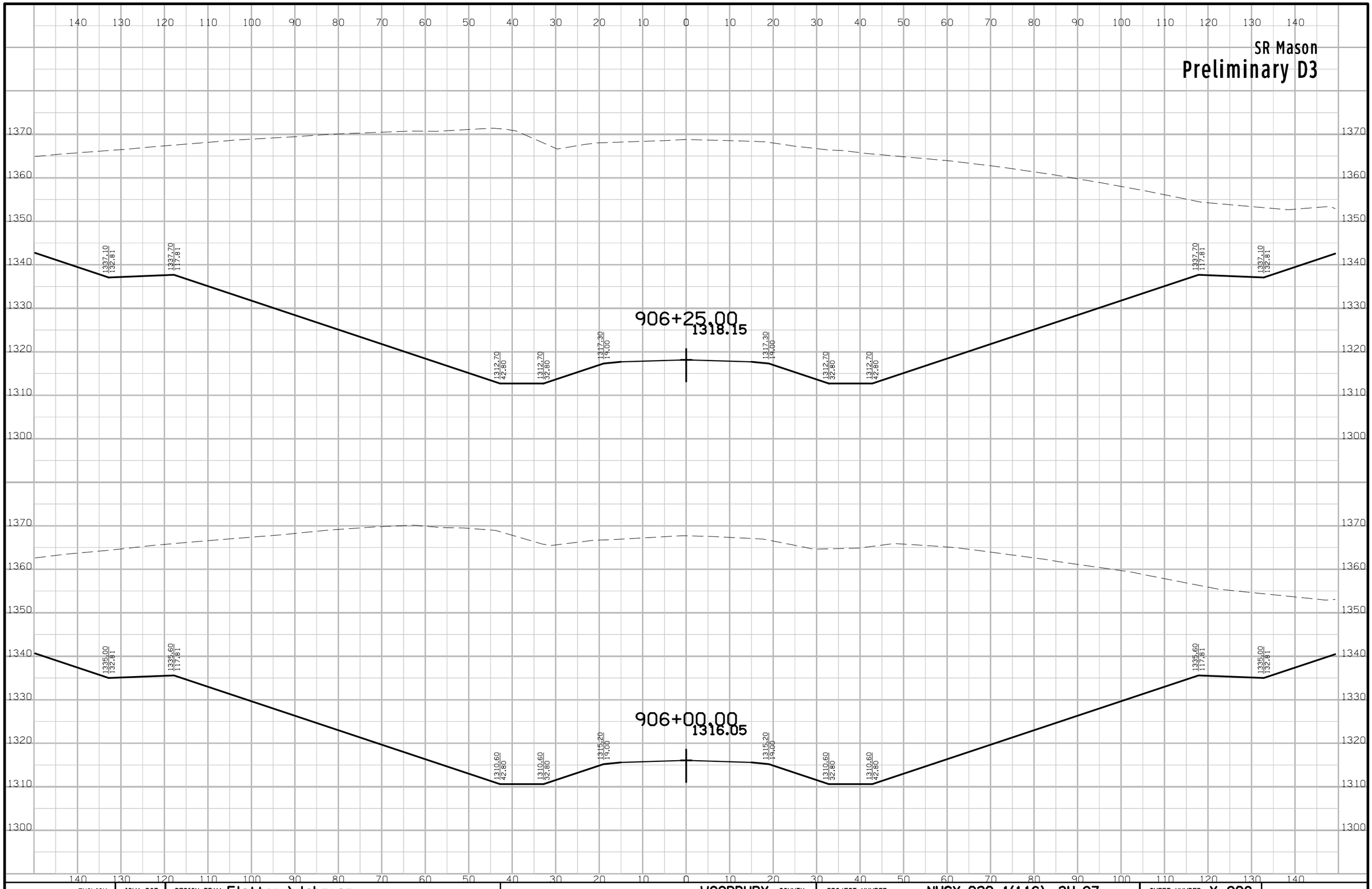


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.907

8:08:19 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

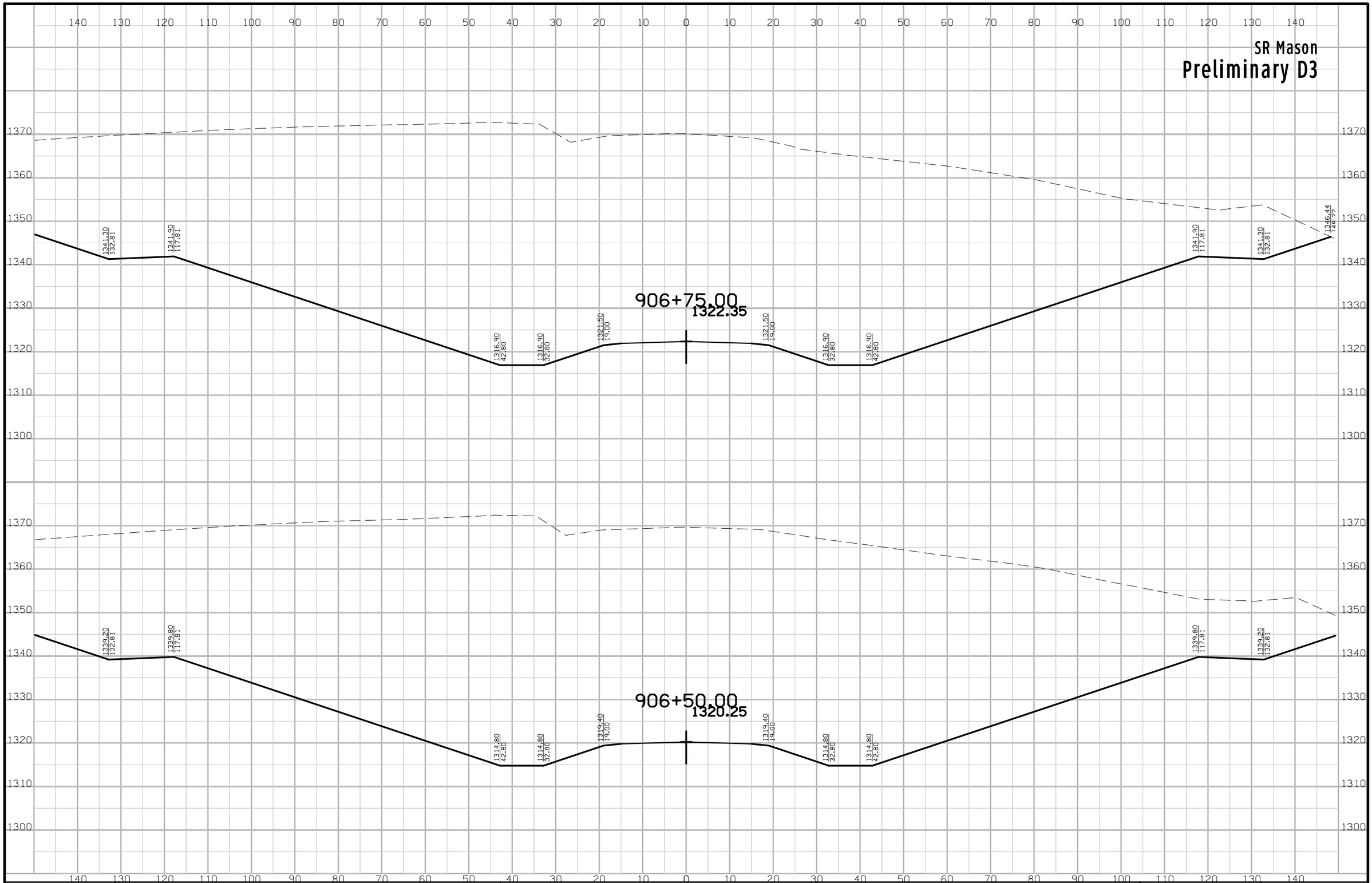


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.908

8:08:19 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

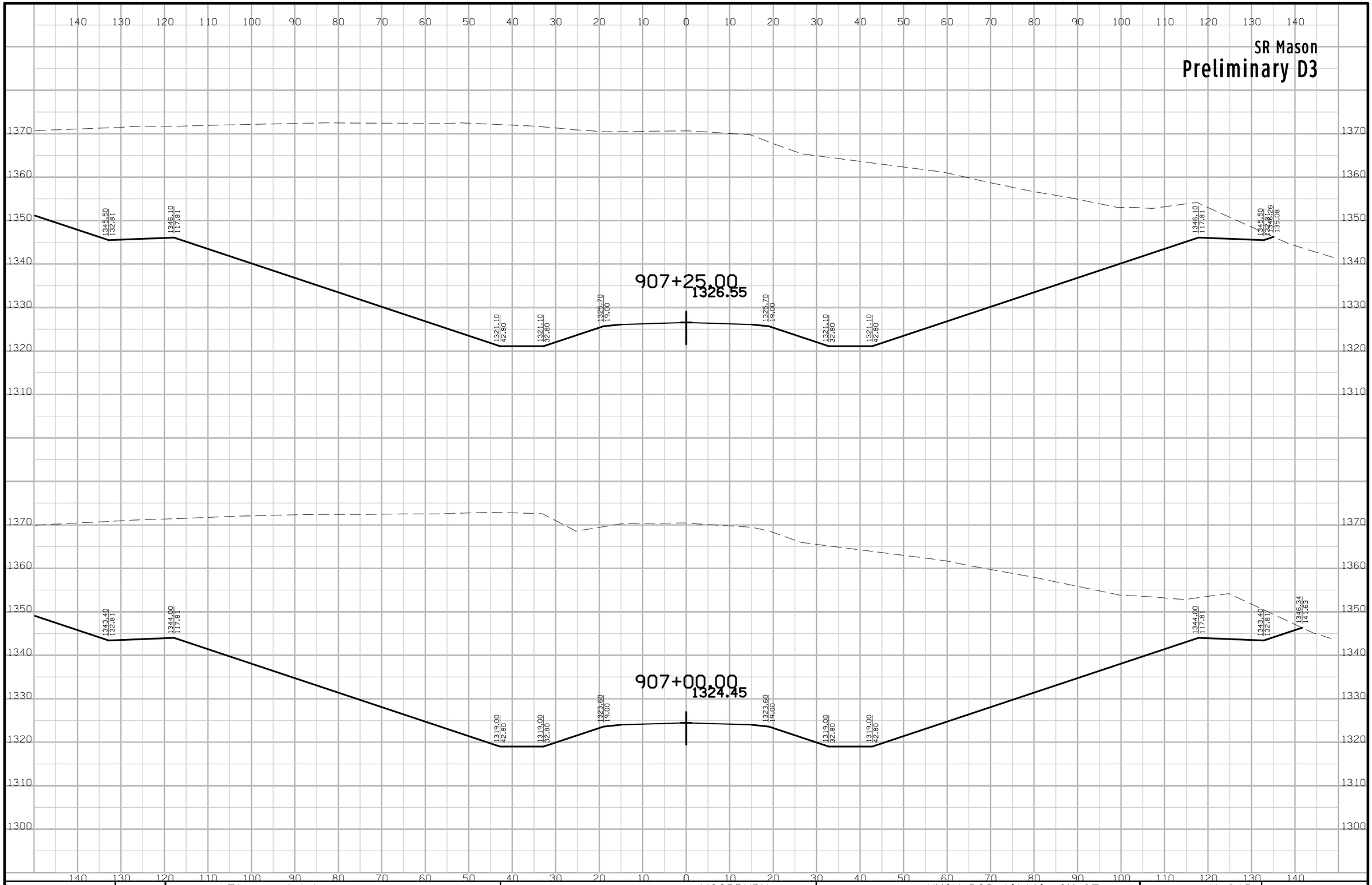


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.909

8:08:20 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.910

8:08:20 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

907+75.00

1330.75

1349.70
132.81

1350.30
117.81

1325.30
42.80

1325.30
32.80

1329.90
19.00

1329.90
19.00

1325.30
32.80

1325.30
42.80

1349.85
116.47

907+50.00

1328.65

1347.60
132.81

1348.20
117.81

1323.20
42.80

1323.20
32.80

1327.80
19.00

1327.80
19.00

1323.20
32.80

1323.20
42.80

1348.20
117.81

1347.90
125.24

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.911

8:08:21 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

908+50.00
1337.05

908+25.00
1334.95

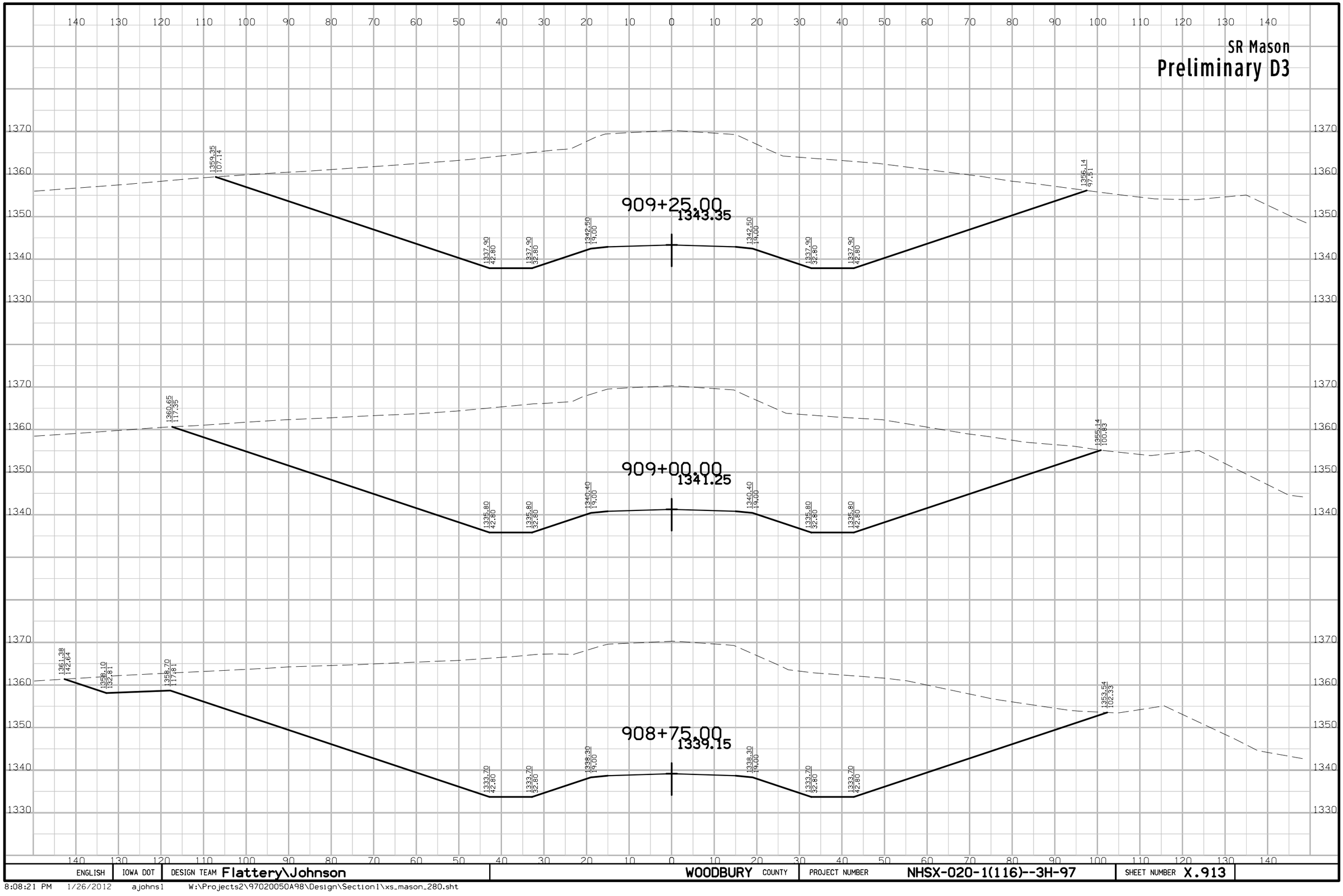
908+00.00
1332.85

ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-1(116)--3H-97	SHEET NUMBER X.912

8:08:21 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

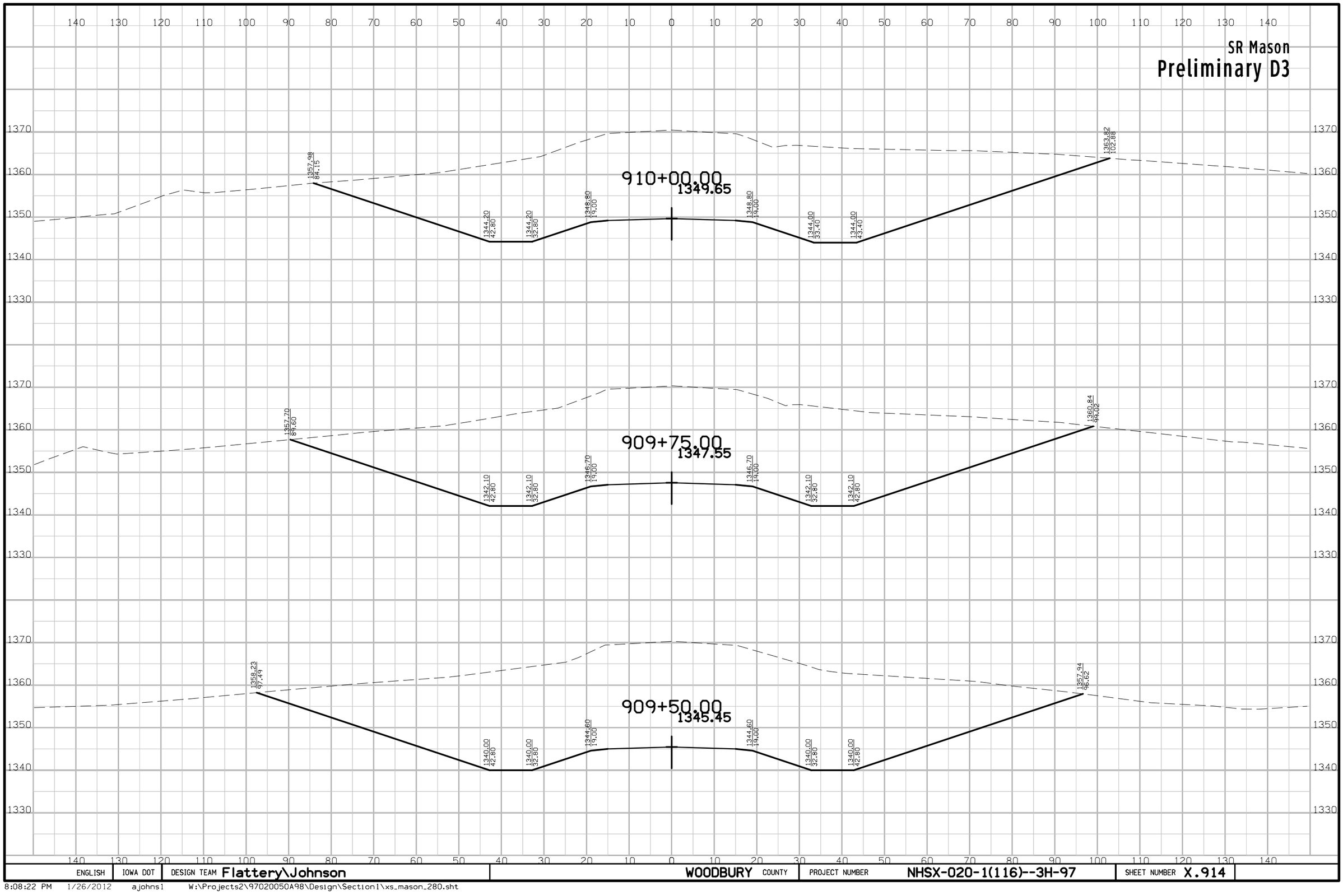


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.913

8:08:21 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

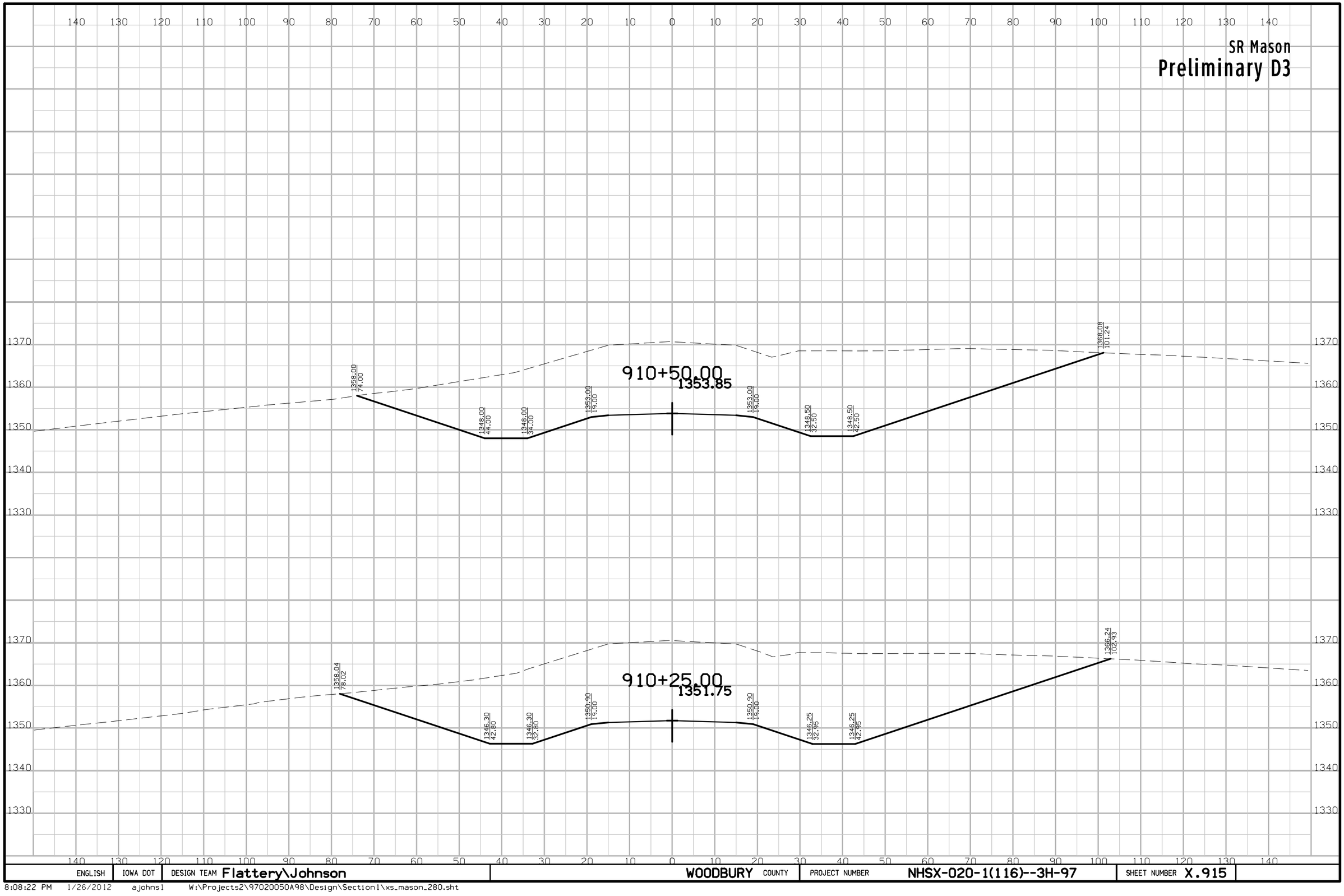


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.914

8:08:22 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

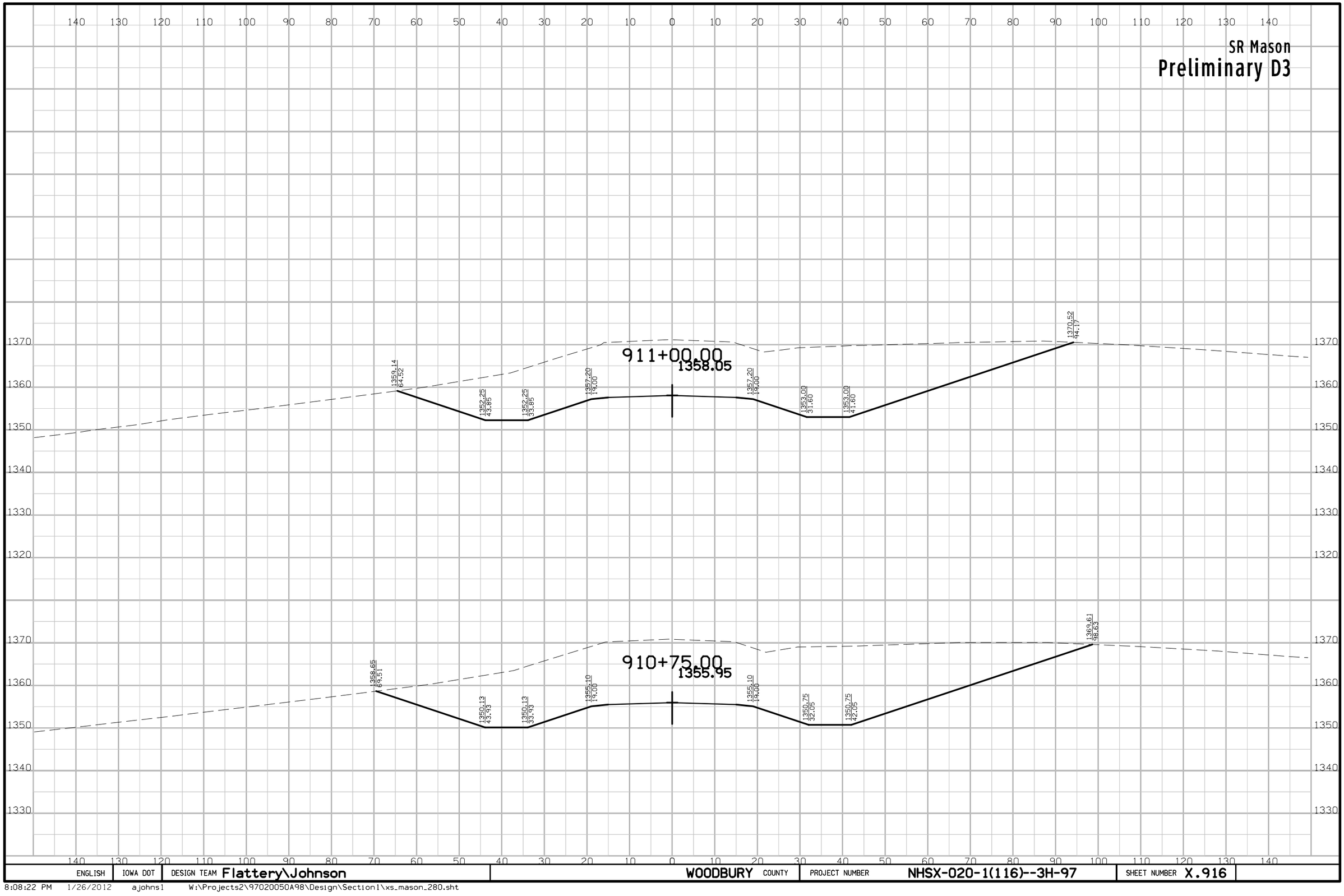


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.915

8:08:22 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

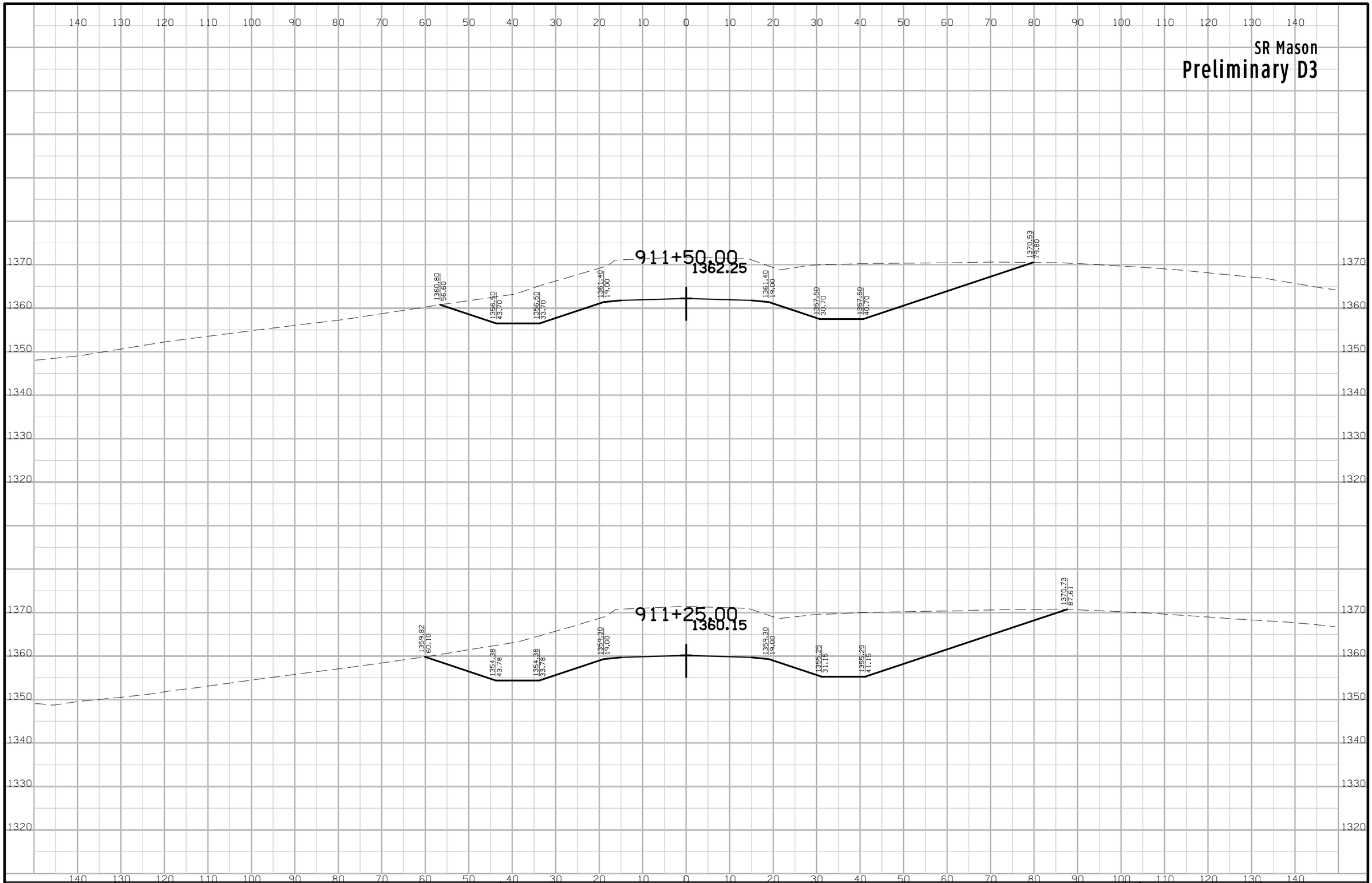


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.916

8:08:22 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

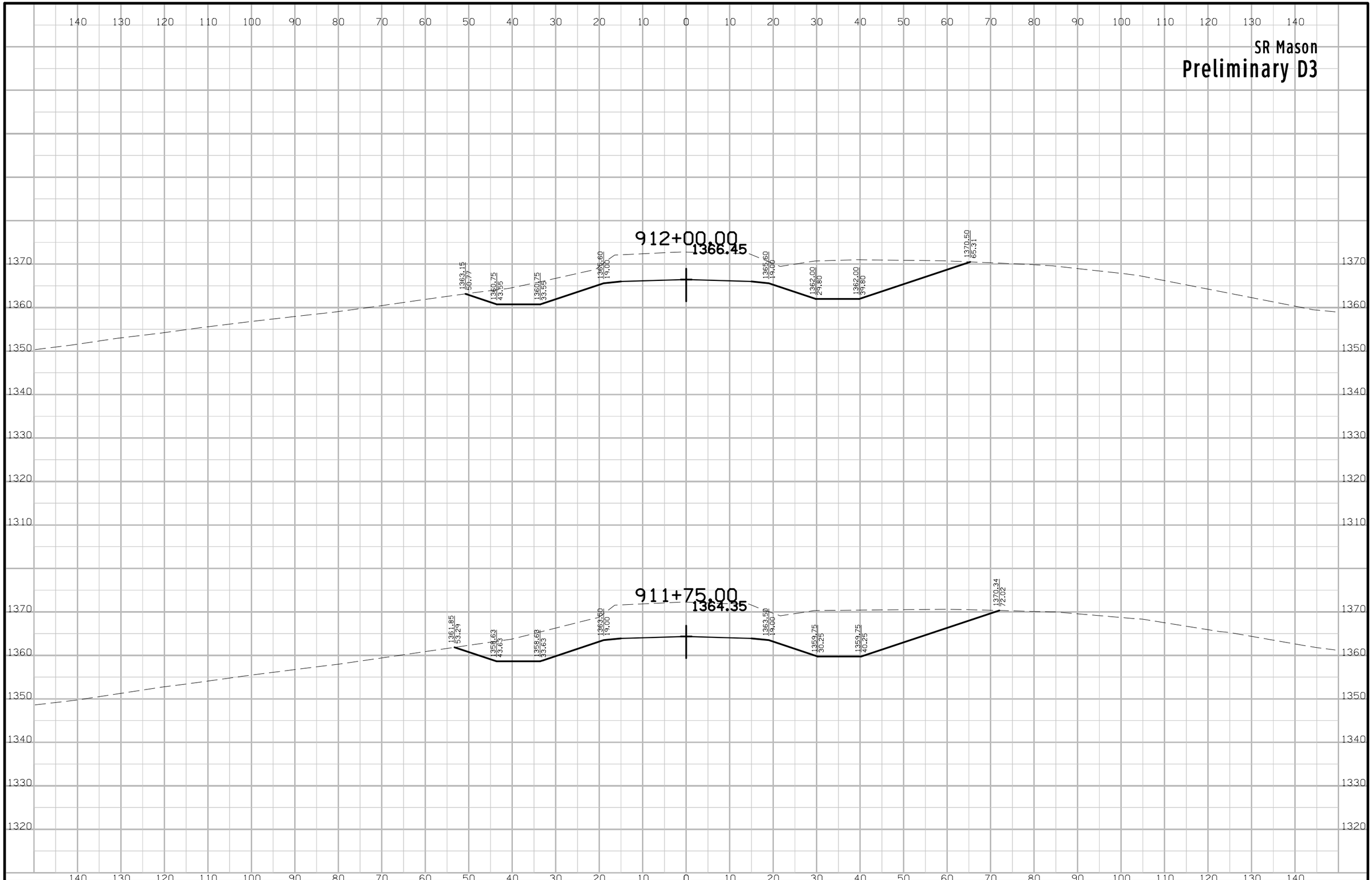


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.917

8:08:22 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

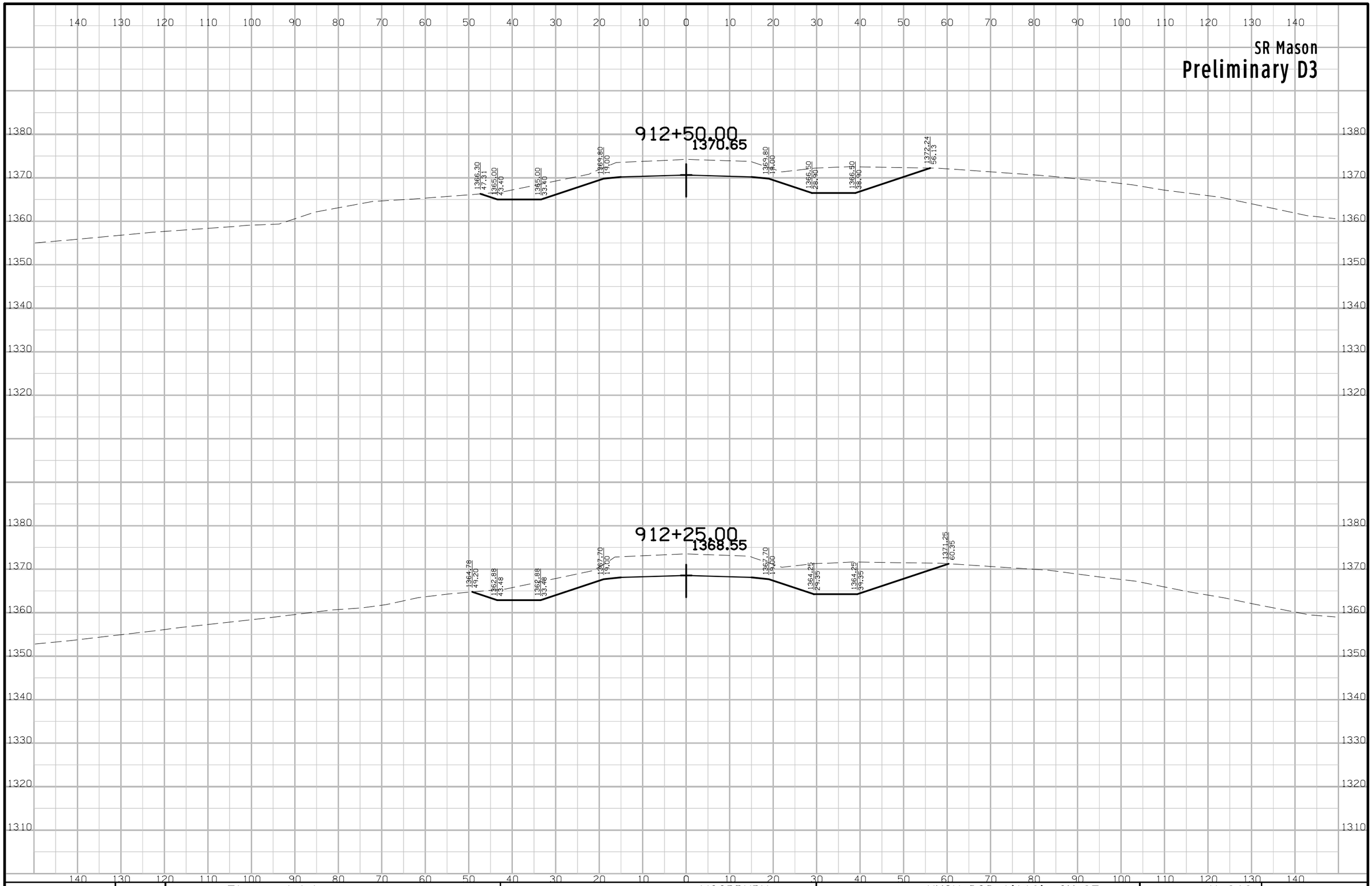


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.918

8:08:23 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

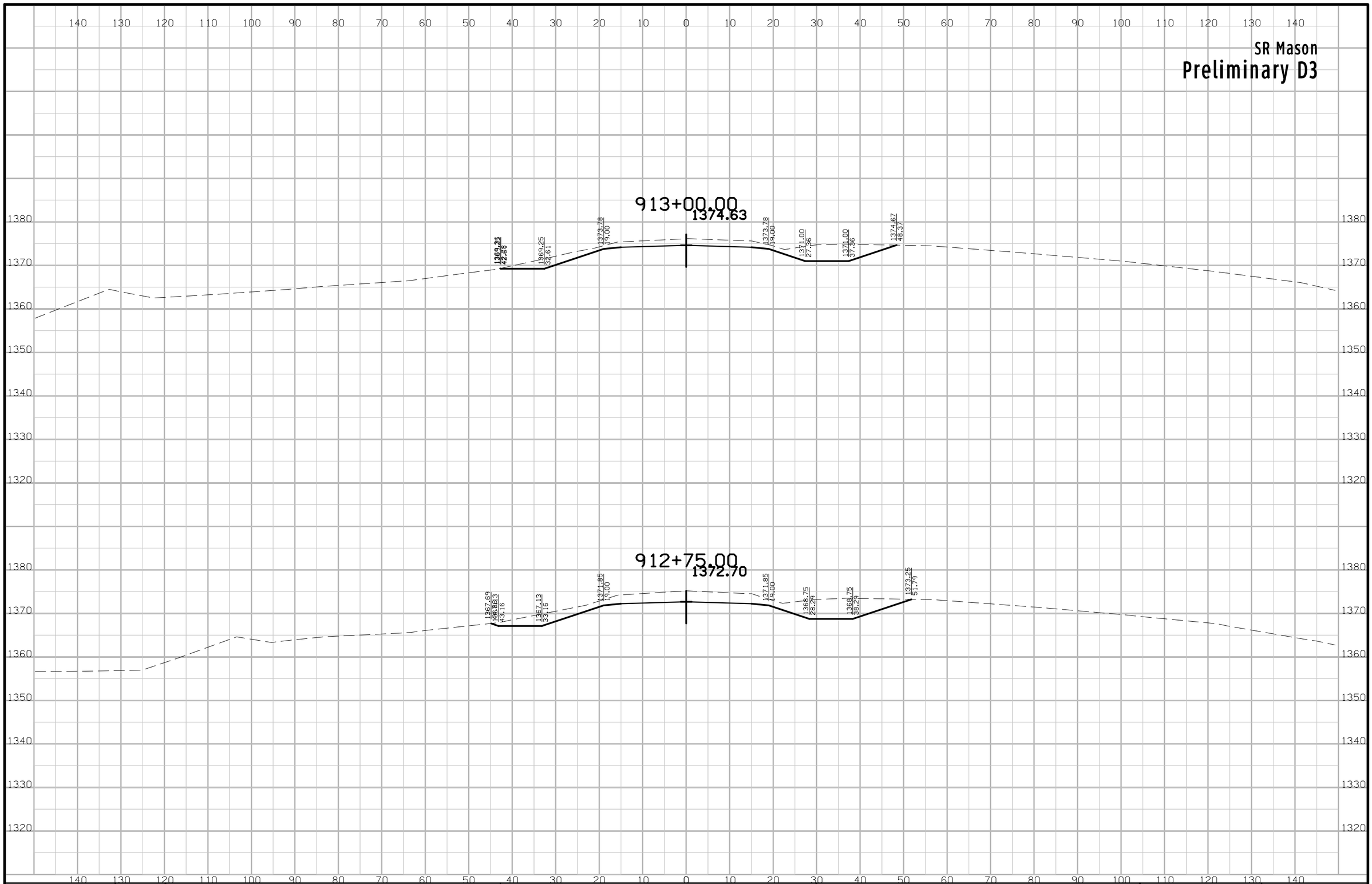


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.919

8:08:23 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

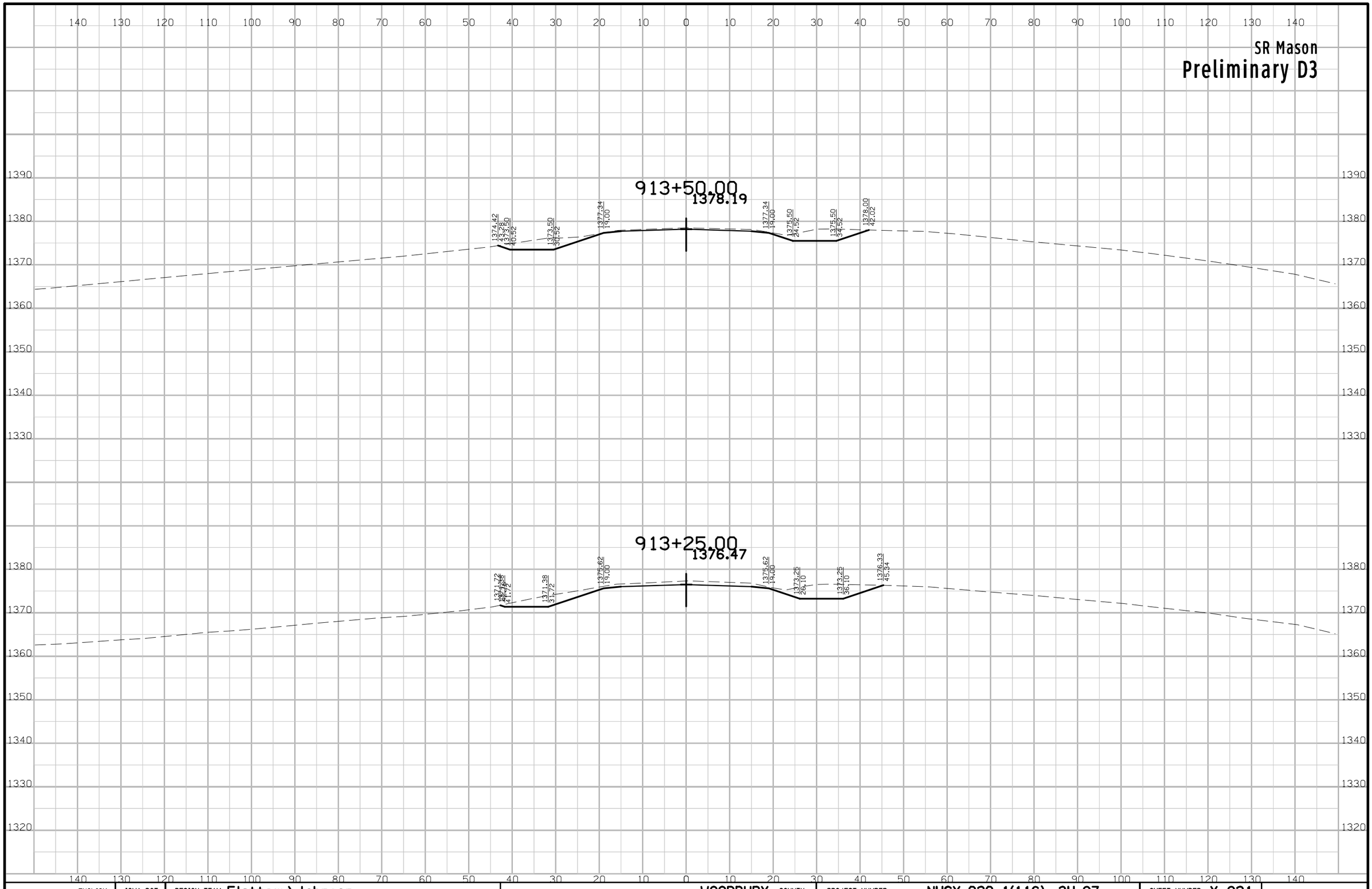


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.920

8:08:23 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

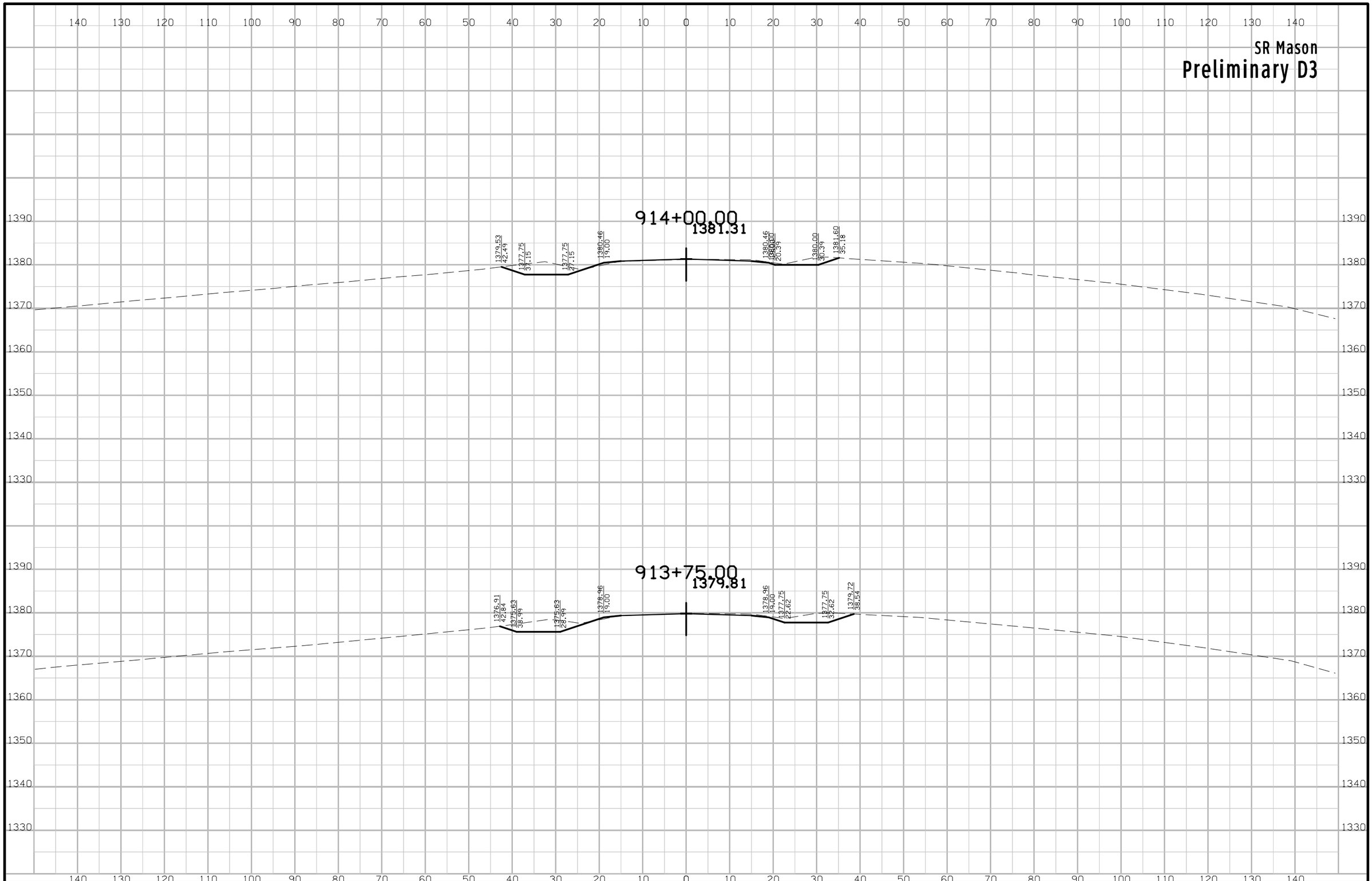


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.921

8:08:24 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3

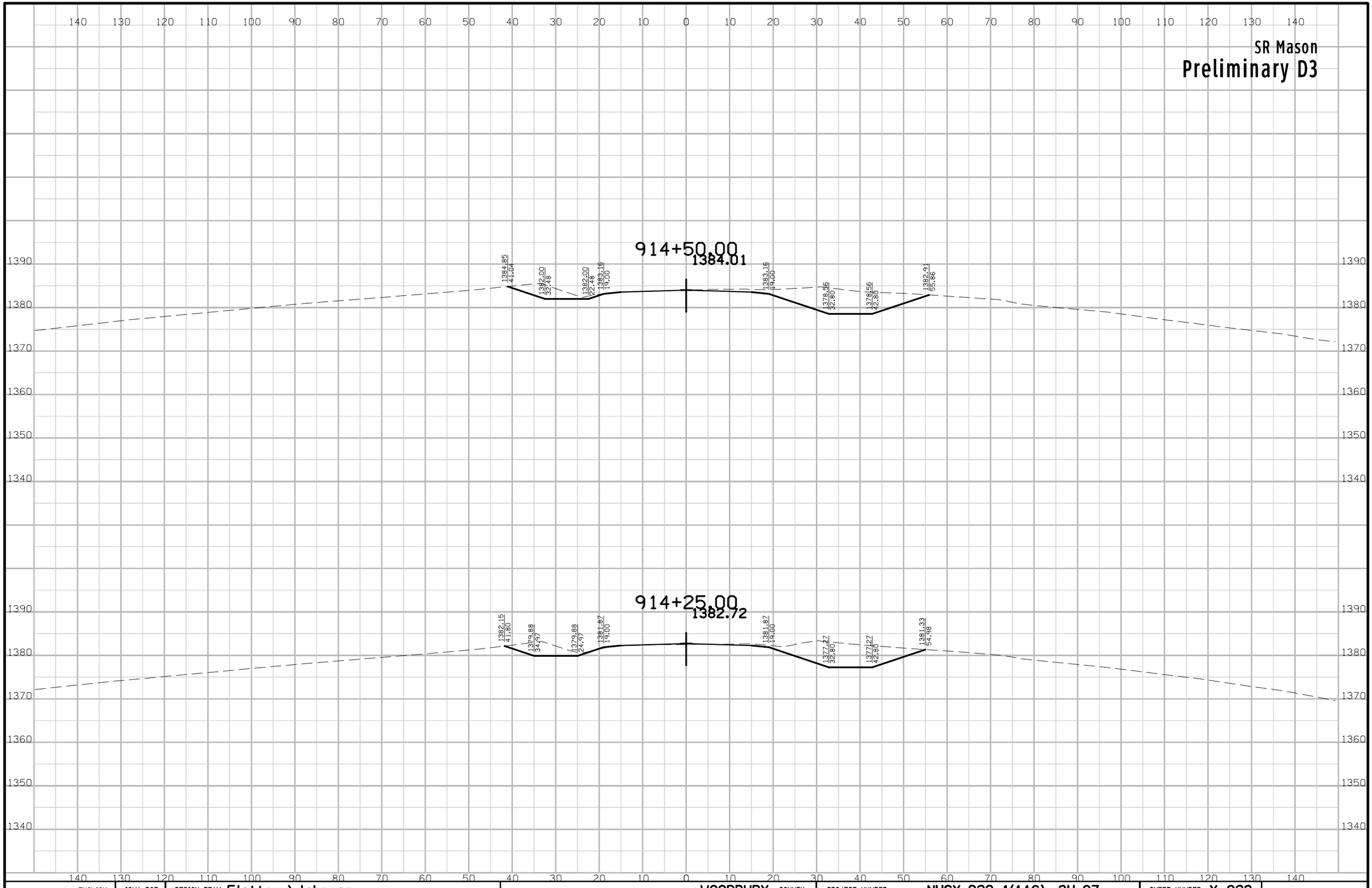


ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.922

8:08:24 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht

SR Mason

Preliminary D3



ENGLISH	IOWA DOT	DESIGN TEAM Flattery\Johnson	WOODBURY COUNTY	PROJECT NUMBER NHSX-020-1(116)--3H-97	SHEET NUMBER X.923

8:08:24 PM 1/26/2012 ajohns1 W:\Projects2\97020050A98\Design\Section1\xs_mason_280.sht