IOWA DEPARTMENT OF TRANSPORTATION

TO OFFICE:	Bridges and Structures	**DATE:**	March 5, 2012
ATTENTION:	D. R. Claman	**REF:**	Warren County
		Proj. No.	STP-092-5(51)--2C-91
FROM:	Jim Schoenrock	PIN: PIN:	04-91-092-010-01
OFFICE:	Design		
SUBJECT:	Culvert Submittal (D3)		

This project involves the reconstruction of IA 92 from west of Kennedy Street to east of N Street in Indianola. The project is divided into a rural and an urban section. The rural section extends from west of Kennedy Street, 2.5 miles to County Road R-63. The urban section extends from R-63 to just east of N Street, a distance of approximately 1.5 miles. The rural part will provide two-lane cross section with a 28 foot pavement and 8 ft. shoulders (4 foot paved and 4foot granular). Eastbound and Westbound right and left turn lanes will be provided at Co. Rd. R-57 and Co. Rd. R-63. In the urban area from Co. Rd. R-63 to just east of Spruce St. a 3-lane roadway will be provided, which will consist of 40 foot back-to-back curbed roadway including a 16 ft. wide continuous center turn lane. A 10 foot wide shared use path is proposed on the north side of the roadway from Co. Rd. R63 east to Spruce Street. A 5 foot wide sidewalk is proposed on the north side of the roadway from Spruce Street east to South M Street. Curb and gutter widening will be done from just east of Spruce Street east to just west of M Street where it meets the existing curb and gutter section.

Priority IV (a) access control spacing in the rural area will require closing and relocating several entrances.

The rural section of IA 92 will be closed to traffic and detoured. Access to the private properties will be maintained during the construction. Traffic on the urban section of IA 92 will be maintained via staging. Traffic on Co. Rd. R-57, Co. Rd. R-63, and Y St. will be maintained during construction. The Project Directory is W:\Projects\P0591998\9109201004\Design. No printed plan sheets 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 W:\Projects\P0591998\9109201004\Design\Docs\ProjectDocumentation_91092051.xlsm.

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

We request Preliminary Bridge Design to complete the section from R-63 to the east end of the project first, so that we may give an early submittal to ROW for this section.

The Right of Way submittal (D5) is now scheduled for 9/15/12. The current letting date is 01/15/2014.

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

JRS:AJ:mk
Attach.
cc: M. J. Kennerly
D. E. Ohman
K. D. Nicholson
R. L. Stanley
Judy Lensing
M. J. Sankey
T. Gettings
D. A. Widick
M. A. Swenson
J. McCollough
J. Armstrong
B. Clancy
N. L. McDonald
G. A. Novey
J. P. Rost
L. C. Funnell
S. C. Marler
T. Crouch
E.C. Wright
B. Bradley
J. W. Smith
J. Vortherms
G. Mulder

D3 Check List

Updated Field Exam Plans including:

Typicals reviewed for correct dimensions, and stationing.

__X__Main Line
__X__Side roads
__X__Accessways
__N/A__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
__X__Entrances and crossovers (future labeled as future)
__X__Auxiliary and turn lanes including tapers.
__N/A__Final Interchange layouts and details
_____ Staging or Detour Runarounds.

Cross Sections

__X__Mainline
__X__Side road
__X__Accessways
__N/A__Ramps and loops
__*__ Detour runarounds or staging details
__X__Draw sections, at box culvert locations
__X__Skewed culvert locations (3 cross sections minimum, 1 on skew and 1 at each end of skewed culvert, perpendicular to centerline)
__N/A__Estimate of Stability berm and backslope benching locations
__X__Auxiliary and turn lanes including tapers
__X__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 and cross sections has been created, printed and checked to make sure the plans and cross sections print appropriately.

- Will be submitted March 19

WARREN Co. UNKNOWN PVMNT-GRADE AND REPLACE
STP-092-5(51)--2C-91
LETTING DATE 1-15-2014

INDEX OF SHEETS

Iowa Department of Transportation

Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

WARREN COUNTY

UNKNOWN PVMNT-GRADE AND REPLACE

Ia. 92 From Just W. Of Co. Rd. R-57 E. To S. Kenwood Blvd. In Indianola

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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

REVISIONS

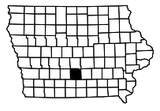
TOTAL
PROJECT IDENTIFICATION NUMBER
04-91-092-010-01
PROJECT NUMBER
STP-092-5(51)--2C-91
R.O.W. PROJECT NUMBER
STPN-092-5(50)--2J-91

MILEAGE SUMMARY

105-1
09-27-94

Div.	Location	Lin. Ft.	Miles
1	RURAL: STA 255+00.00 to STA 390+50.00	13,550	2.566
2	URBAN: STA 390+50.00 to STA 467+00.00	7,650	1.449
	Total Net Project Lenght	21,200	4.015

For Project Location Map
Refer to Sheet A.2



DESIGN DATA RURAL

2014 AADT	6500	V.P.D.
2034 AADT	11000	V.P.D.
2034 DHV	1130	V.P.H.
TRUCKS	8	%
Total Design ESALs	--	

DESIGN DATA URBAN

2014 AADT	9500	V.P.D.
2034 AADT	16000	V.P.D.
2034 DHV	1650	V.P.H.
TRUCKS	8	%
Total Design ESALs	--	

INDEX OF SEALS

SHEET NO.	NAME	TYPE
A.1	James R. Schoenrock	Primary Signature Block

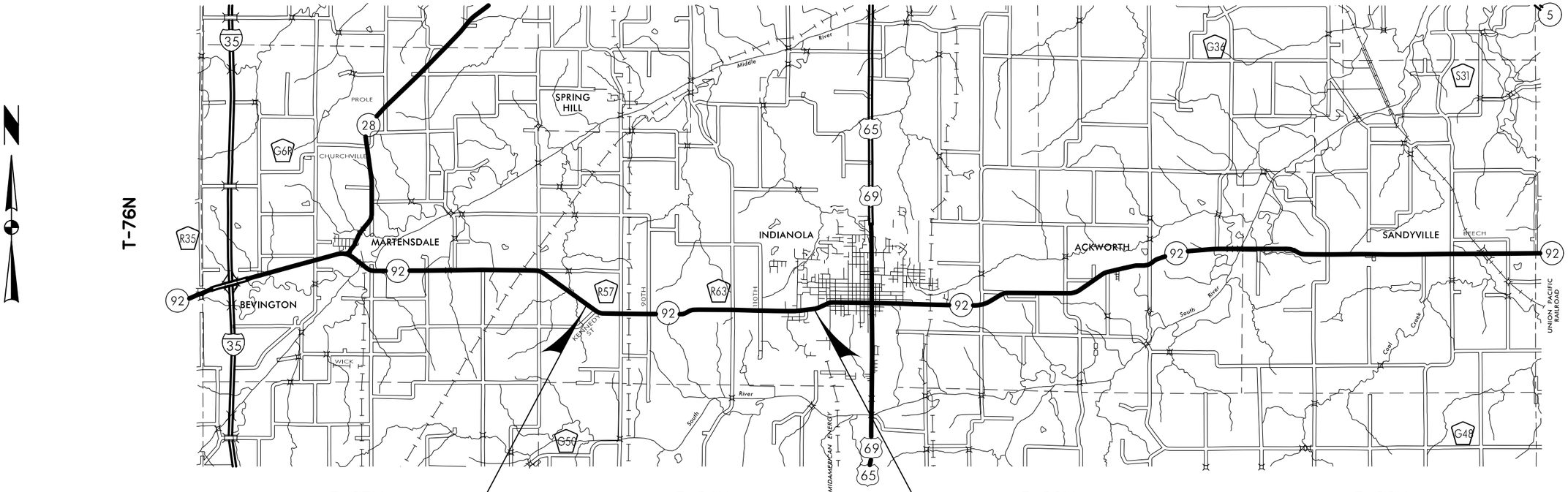
PRELIMINARY PLANS

Subject to change by final design.

D3 PLAN – Date: 3-02-2012

ENGLISH | IOWA DOT | DESIGN TEAM Schoenrock\Holst\Bennett\Janus | WARREN COUNTY | PROJECT NUMBER STP-092-5(51)--2C-91 | SHEET NUMBER A.1

11:32:04 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051A01.sht



LOCATION MAP SCALE
0 1 2 3
Miles

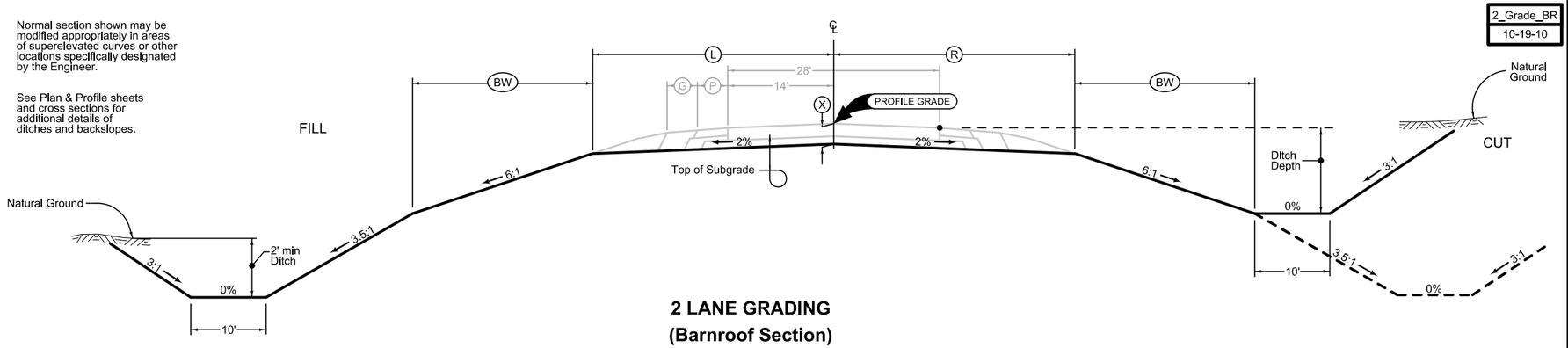
ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER A.2

8:08:46 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051A01.sht

LOCATION			DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches	(BW) Feet
IA 92	256+50.00	391+00.00	35.2	35.2	22	16.4

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

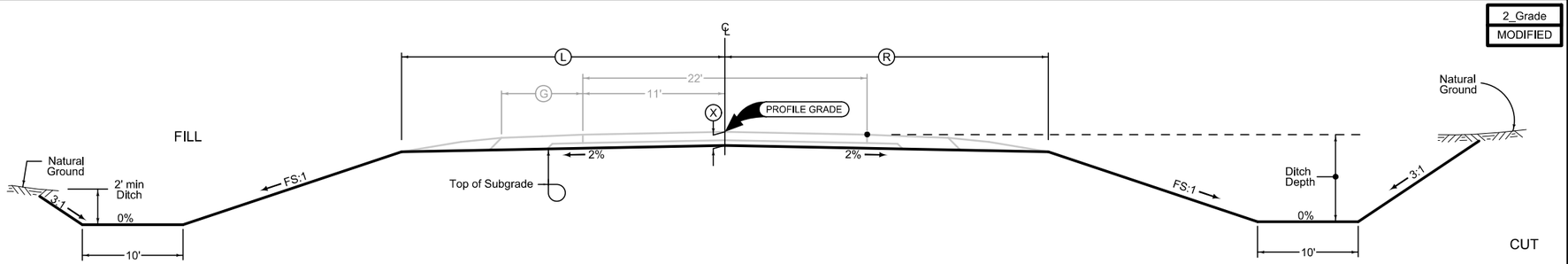
See Plan & Profile sheets and cross sections for additional details of ditches and backslopes.



2_Grade_BR
10-19-10

2 LANE GRADING
(Barnroof Section)

LOCATION			DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches	FS
R-57	1281+00.00	1283+61.24	27.0	27.0	22	4
R-57	1383+96.17	1385+30.00	27.0	27.0	22	4
R-63	3389+30.00	3390+23.00	27	27	22	4
R-63	3392+23.00	3392+70.00	27	27	22	4



2_Grade
MODIFIED

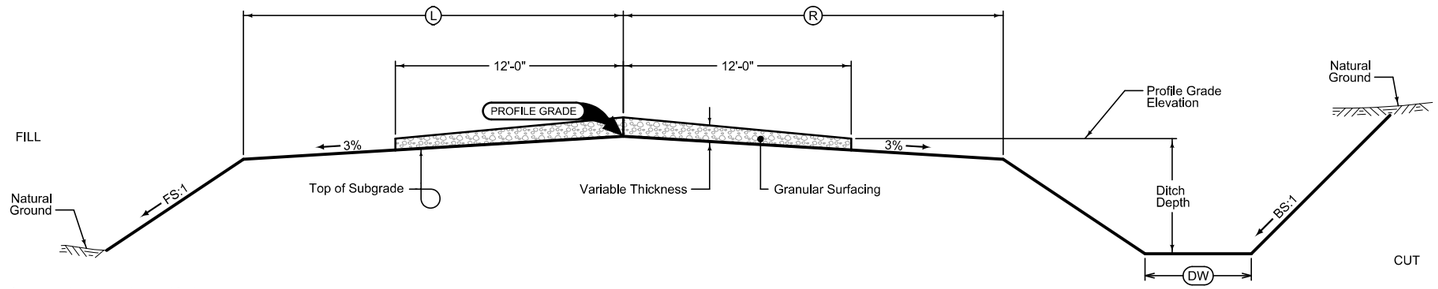
Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

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

2 LANE GRADING

LOCATION			DIMENSIONS				
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	FS	BS	(DW) Feet
KENNEDY ST	1257+45.00	1258+68.00	15	15	3	3	5
90TH AVE	2305+85.00	2307+00.00	12-13	12-13	2.5	2.5	0
90TH AVE	2307+00.00	2308+00.00	13	13	3	3	0-5
90TH AVE	2308+00.00	2310+06.21	13	13	3	3	5
90TH AVE	2310+50.21	2313+85.00	13	13	3	3	5
Accessway ENT259	103+05.00	104+27.00	12	12	3	3	5

2_GradeGran
04-17-12



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.

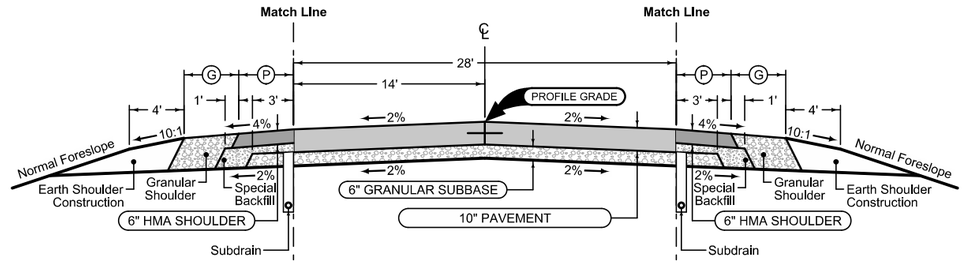
Place Granular Surfacing as follows:
Grading design application rate is ___ tons per mile.
Paving design application rate is ___ tons per mile.

GRADING AND GRANULAR SURFACING

Combination Shoulder

Shoulder Jointing:
Longitudinal joint: B

		2_C_ 10-19-10	
STATION TO STATION		(P) Feet	(G) Feet
256+50.00	282+86.00	4	4
291+18.00	390+19.00	4	4



Combination Shoulder

Shoulder Jointing:
Longitudinal joint: B

		2_C_ 10-19-10	
STATION TO STATION		(P) Feet	(G) Feet
256+50.00	280+44.00	4	4
284+56.00	387+75.00	4	4

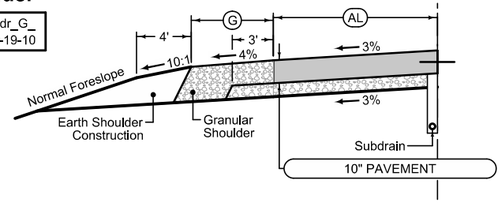
Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

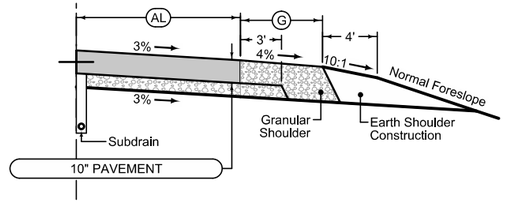
	2P_ 10-19-10
STATION TO STATION	
256+50.00	391+00.00

Auxiliary Lane
Granular Shoulder

Longitudinal joint: L or KT
Transverse joint: Match Mainline

		2_AuxLane_PCC_ 10-19-10	2_AL_Shldr_G_ 10-19-10
STATION TO STATION		(AL) Feet	(G) Feet
284+48.00	289+38.00	10	6
289+38.00	291+18.00	0-10	6





Auxiliary Lane
Granular Shoulder

Longitudinal joint: L or KT
Transverse joint: Match Mainline

		2_AuxLane_PCC_ 10-19-10	2_AL_Shldr_G_ 10-19-10
STATION TO STATION		(AL) Feet	(G) Feet
280+44.00	281+44.00	0-10	6
281+44.00	282+94.00	10	6
387+75.00	388+75.00	0-10	6
388+75.00	390+25.00	10	6

See Tab 100-24 for pavement quantities.

See Tab 112-9 for shoulder quantities.

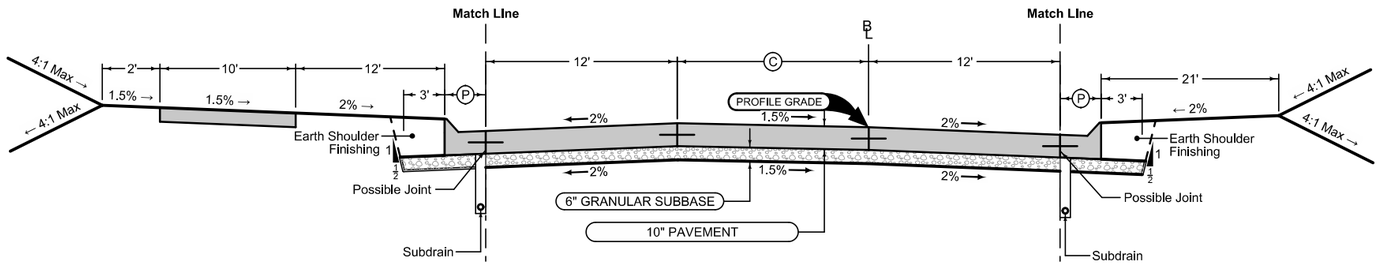
IOWA 92 - RURAL

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

2_Curb_ MODIFIED			
STATION TO STATION		(P) Feet	Curb Type See PV-102
391+00.00	443+18.01	3	6" Standard



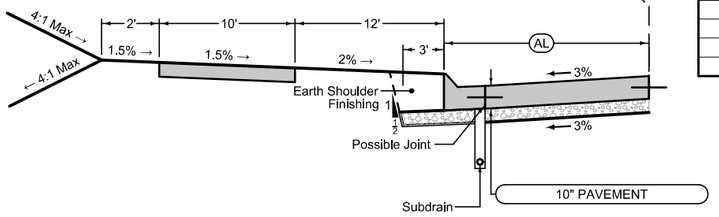
Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

2P_TWLTL_ 10-19-10		
STATION TO STATION		(C) Feet
391+00.00	441+27.50	16
441+27.50	443+18.01	16-12

Auxiliary Lane

Longitudinal joint: L or KT
Transverse joint: Match Mainline

4_AuxLane_PCC_ MODIFIED			
Direction of Travel	BEGIN STATION	END STATION	(AL) Feet
WEST	391+92.00	396+82.00	13



Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

2_Curb_ MODIFIED			
STATION TO STATION		(P) Feet	Curb Type See PV-102
391+00.00	443+18.01	3	6" Standard

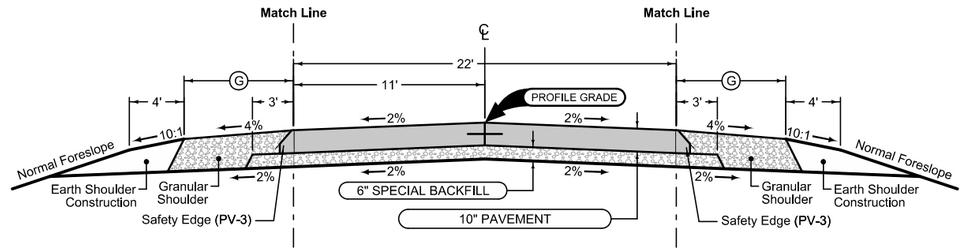
See Tab 100-24 for pavement quantities.

See Tab 112-9 for shoulder quantities.

IOWA 92 - URBAN

Granular Shoulder

2_G_ 10-19-10		
STATION TO STATION		(G) Feet
1281+00.00	1282+80.74	6
1384+68.89	1385+30.00	6



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

2P_ 10-19-10	
STATION TO STATION	
1281+00.00	1283+61.24
1383+96.17	1385+30.00

Granular Shoulder

2_G_ 10-19-10		
STATION TO STATION		(G) Feet
1281+00.00	1282+87.71	6
1384+77.46	1385+30.00	6

See Tab 100-24 for pavement quantities.

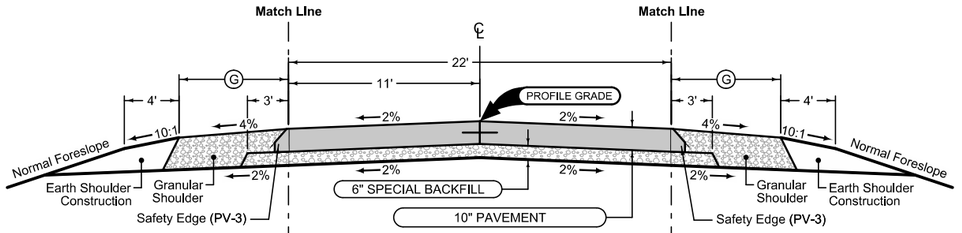
See Tab 112-9 for shoulder quantities.

R-57

Granular Shoulder

STATION TO STATION		(G) Feet
3389+00.00	3390+91.42	6
3391+31.95	3393+05.00	6

2_G_
10-19-10



Malnline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

STATION TO STATION	
3389+00.00	3390+91.42
3391+31.95	3393+05.00

2P_
10-19-10

Granular Shoulder

STATION TO STATION		(G) Feet
3389+00.00	3390+91.42	6
3391+31.95	3393+05.00	6

2_G_
10-19-10

See Tab 100-24 for pavement quantities.

See Tab 112-9 for shoulder quantities.

R-63

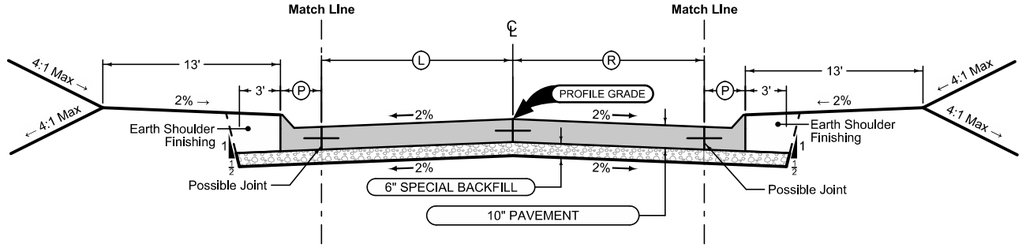
Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

STATION TO STATION		(P) Feet	Curb Type See PV-102
4414+15.00	4417+25.32	1.5	6" Standard
4417+64.40	4422+60.00	1.5	6" Standard

2_Curb_
MODIFIED



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

STATION TO STATION		(L) Feet	(R) Feet
4414+15.00	4417+25.32	11	11
4417+64.40	4422+60.00	14	14

2P_
10-19-10

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

STATION TO STATION		(P) Feet	Curb Type See PV-102
4414+15.00	4417+25.32	1.5	6" Standard
4417+64.40	4422+60.00	1.5	6" Standard

2_Curb_
MODIFIED

See Tab 100-24 for pavement quantities.

See Tab 112-9 for shoulder quantities.

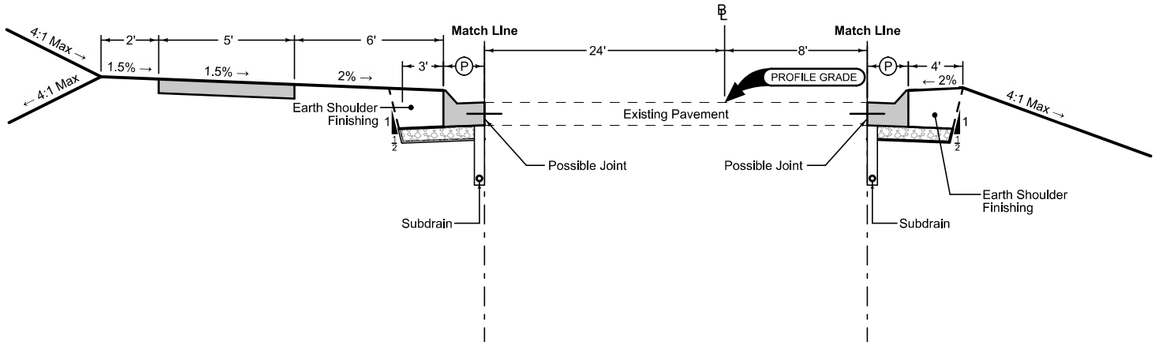
110TH ST

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

			2_Curb_ MODIFIED
STATION TO STATION		(P) Feet	Curb Type See PV-102
443+18.01	464+92.00	2.5	6" Standard



Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

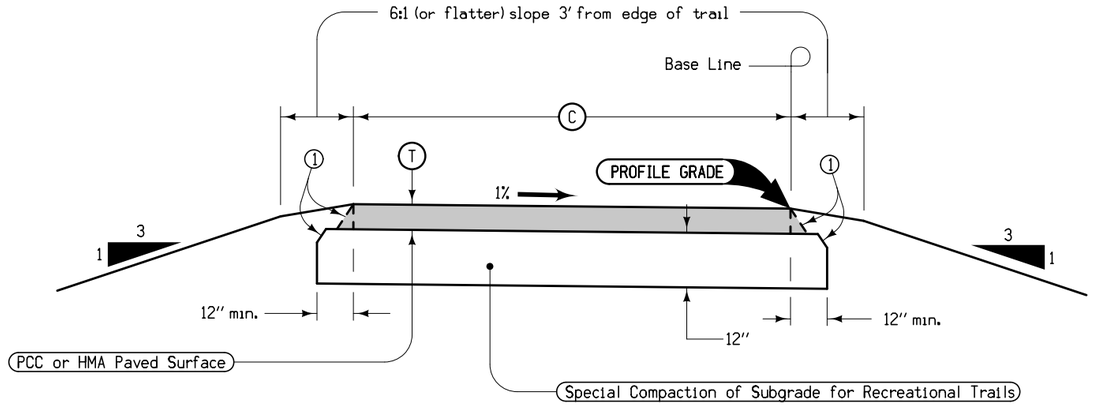
			2_Curb_ MODIFIED
STATION TO STATION		(P) Feet	Curb Type See PV-102
443+18.01	464+92.00	2.5	6" Standard

See Tab 100-24 for pavement quantities.

See Tab 112-9 for shoulder quantities.

IOWA 92 - URBAN WIDENING

7402
MODIFIED



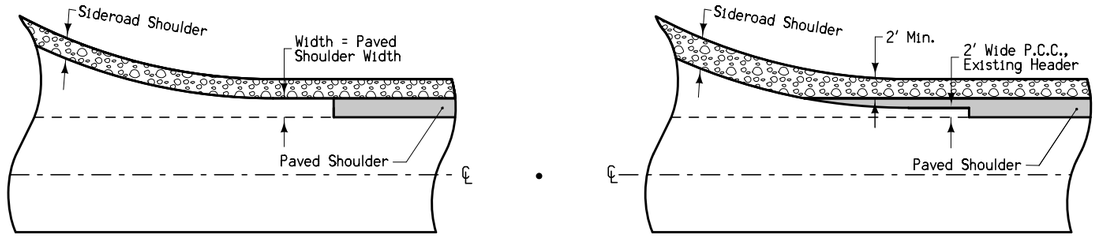
PAVEMENT THICKNESS		
Pavement Type	Trail Width (C)	(T)
PCC	8'	4"
	10' or greater	5"
HMA	8'	5"
	10' or greater	6"

Notes:
Bid item is "Recreational Trail".
(1) Nominal 1:1 slope (HMA only)

STATION TO STATION		PAVEMENT TYPE PCC, HMA, or option	(C) Feet	
391+20.00	441+21.07	x	10	

TYPICAL CROSS SECTION RECREATIONAL TRAIL PAVED SURFACE

7154B
10-20-09

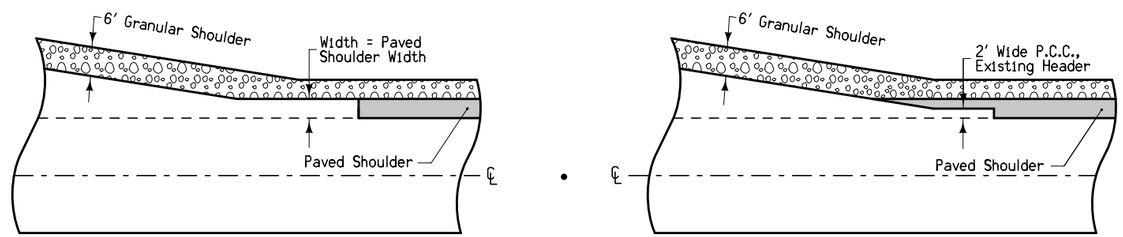


With Newly Constructed Returns

At UAC Returns

PAVED SHOULDER DETAIL AT RETURNS

7154A
10-20-09

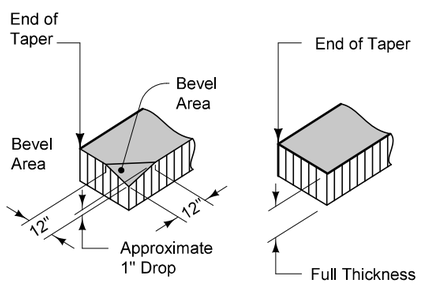


With Newly Constructed Turn Lanes

At UAC Turn Lanes

PAVED SHOULDER DETAIL AT TURN LANES

7101
10-19-10

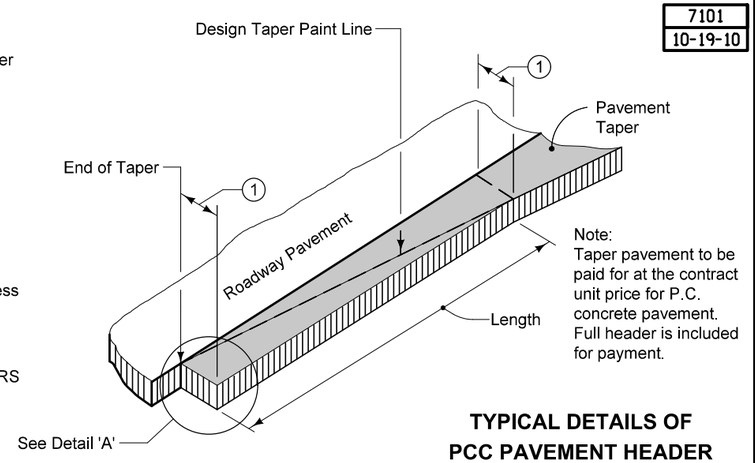


DETAIL 'A'

FOR GRANULAR SHOULDERS

DETAIL 'A'

FOR PAVED SHOULDERS

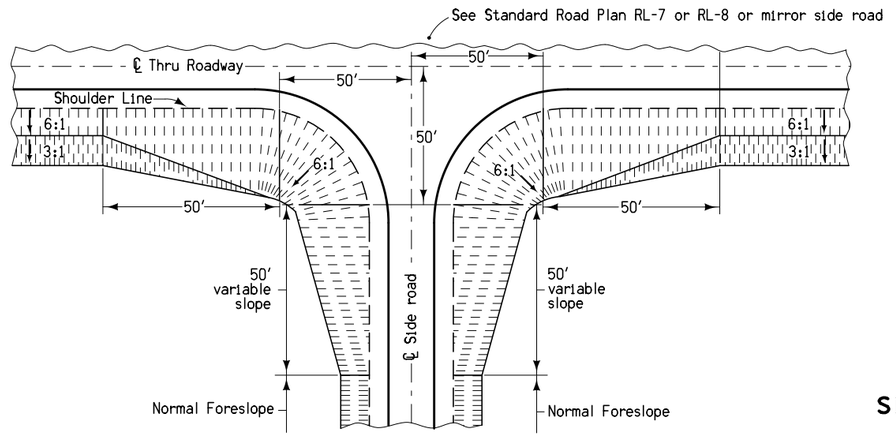


Note:
Taper pavement to be paid for at the contract unit price for P.C. concrete pavement. Full header is included for payment.

① Normal width is 2'-0". Construct 4'-0" width when butting into 4' wide HMA shoulders (See Typical 7154A).

TYPICAL DETAILS OF PCC PAVEMENT HEADER

2117
04-15-08



SIDE ROAD GRADING (BARNROOF)

SURVEY SYMBOLS

- TDC Tree Deciduous
- PPA Power Pole Co. 1
- FWD Wood Fence
- LUM Luminaire
- TEV Evergeen Tree
- LP L.P. Tank
- D Centerline Draw or Stream (Down)
- RET Retaining Walls
- SI Sign
- SHR Shrub
- SI Sign
- EW Edge of Water
- DIK Centerline of Dike or Dam
- FLG Flag Poles
- WM Wind Mill
- FCL Chain Link and Security Fence
- HDG Hedge Row
- TV Satelite TV Dish
- RT Radio Tower
- INB Storm Sewer Beehive Intake
- WV Water Valve
- FHD Fire Hydrants
- WEL Well
- MH Utility Access (Manhole)
- LUM Luminaire
- MIS Miscellaneous
- TPD Telephone Pedestal
- EB Electrical Box
- UB Utility Box
- PR Electic Riser Pole
- FW Wire Fence
- GP Guard Post (Less Than 4 Posts)
- IN Storm Sewer Intake
- TLN Treeline
- TVP TV Pedestal
- SEP Septic Tank
- OUT Tile Outlet
- TIL Tile Line
- UST Underground Tank
- GV Gas Valve
- DU Centerline Draw or Stream (Up)
- BNK Stream Bank
- BL Topo Breakline
- RIP Rip-Rap

- St.S. STA Storm Sewer Line Co. 1
- FO3 FOC Underground Fiber Optic Co. 3
- FO5 FOE Underground Fiber Optic Co. 5
- FO2 FOB Underground Fiber Optic Co. 2
- San. SAA Sanitary Sewer Line Co. 1
- T1 TLA Underground Telephone Line Co. 1
- E1 ELA Underground Electric Line Co. 1
- G GLA Underground Gas Line Co. 1
- TV TVA Underground TV Cable Co. 1
- W WLA Underground Water Line Co. 1
- FO FOA Underground Fiber Optic Co. 1
- E2 ELB Underground Electric Line Co. 2
- San.2 SAB Sanitary Sewer Line Co. 2
- G2 GLB Underground Gas Line Co. 2
- FO4 FOD Underground Fiber Optic Co. 4
- W2 WLB Underground Water Line Co. 2

UTILITY LEGEND

- FO FOA Paetac Iowa Communications Network
- FO2 FOB Lightcore (Digital Teleport)
- FO3 FOC Iowa Network Service
- FO4 FOD Indianola Municipal Utilities
- FO5 FOE MCI
- T1 TLA Qwest
- E1 ELA Mid-American
- E2 ELB Indianola Municipal Utilities
- TV TVA Mediacom
- W WLA Indianola Municipal Utilities
- W2 WLB Warren Rural Water
- San. SAA City of Indianola
- San.2 SAB Private
- G GLA Mid-American
- G2 GLB Kinder Morgan
- St.S. STA City of Indianola
- PPA Mid-American

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

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

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

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

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

RIGHT-OF-WAY LEGEND

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

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.1

8:10:15 AM ajanus2 W:\Projects\P0591998\9109201004\Design\91092051_lgd.sht

Sta. 258+34.35
2' X 2' X 46.0' RCB W/ 30" Conc Pipe Extensions
D.A. = 2 Ac - R

Lincoln TWP.
T-76N R-24W
SEC. 29

SCS PI Sta 264+10.92
Δ = 35° 10' 54.09" (LT)
Theta = 2° 59' 45.09"
Ls = 160.00
Ts = 565.29
Es = 75.79
P = 0.70
K = 79.99
Xc = 159.96
Yc = 2.79
LT = 106.68
ST = 53.35
LC = 159.98

Curve Data
Δ = 29° 11' 23.92" (LT)
T = 398.39
L = 779.48
R = 1,530.00
E = 51.02

Prop. 36"
Uncl. Ent. Pipe

87 Prop. Jt.
Type "C" Ent.
(ENT258)

18" X 45.0' C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

Prop. 18"
Uncl. Ent. Pipe

15" X 20.0' C.M.P.

56 Prop. Jt.
Type "C" Ent.
(ENT270)

POT Sta 255+00.00

255

(Close)

(ENT259)

260

260+05.68

(Close)

15" X 40.0' C.M.P.
(REMOVE)

265

18" X 21.0' C.M.P.
(REMOVE)

(ENT269)

269+45.11

(Close)

270

IA 92(ML092)

15 Sta 258+45.63

ISC Sta 260+05.68

CS Sta 267+85.11

ST Sta 269+45.11

Sta. 256+50.00
Begin Full Width
Paving

POC STA 258+87.00 ML092
= POT STA 1258+87.00 SRKENNEDY

POT STA 1258+86.95 SRKENNEDY

House

Sta 259+52.32

(Close)

18" X 24.0' C.M.P.

Sta 268+38.46

PI Sta 264+04.03

KENNEDY ST.

Sta. 258+99.86, 41.76 Rt.
18" X 45.0' Conc Pipe
D.A. = 1 Ac - R

18" X 26.0' C.M.P.

18" X 96.0' C.M.P.

15" X 49.0' C.M.P.

House

0 50
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.2

8:10:20 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht

(ENT258)

-10.0%

-2.0%

-10.0%

-4.0%

+87

(ENT259)

-4.0%

+4.0%

258+75.81

+6.5%

+0.5%

VPI +50.000
Elv 967.80
K = 248
Len 300.00 ft

+0.700%

+1.910%

Existing Road
CL Profile

BEGIN FULL WIDTH PAVING
STA 256+50.00
ELV 948.70

948.70

+25 Rt.
957.31

+1.30% Lt. Ditch Grade

+50 Rt.
948.16

+0.50% Rt.
Ditch Grade

+50 Rt.
949.71

+4.80% Rt.
DG

+2.30% Rt. Ditch Grade

+1.60% Rt. Ditch Grade

+1.80% Lt.
Ditch Grade

+00 Lt.
952.58

+50 Rt.
950.05

+0.50% Rt. Ditch Grade

+50 Rt.
952.05

+00 Lt.
946.62

-5.10% Lt.
Ditch Grade

+50 Rt.
948.66

+00 Rt.
946.26

+75 Lt.
950.33

+90 Lt.
942.03

-9.00% Lt. Ditch Grade

+4.45% Lt.
DG

+7.10% Lt. Ditch Grade

+50 Lt.
934.36

+00 Lt.
932.13

995 990 985 980 975 970 965 960 955 950 945 940 935 930 925 920

Lt
Rt

Ditch Grade
Ditch Grade
No Ditch
Ditch Grade

948.70 949.18 949.65 950.13 950.61 951.09 951.56 952.04 952.52 953.00 953.47 953.95 954.43 954.91 955.38 955.86 956.34 956.82 957.29 957.77 958.25 958.73 959.20 959.68 960.16 960.64 961.11 961.59 962.07 962.55 963.02 963.50 963.98 964.46 964.93 965.40 965.84 966.25 966.64 967.01 967.35 967.66 967.95 968.21 968.45 968.66 968.85 969.02 969.20 969.37 969.55 969.72 969.90 970.07 970.25

255 +50 256 +50 257 +50 258 +50 259 +50 260 +50 261 +50 262 +50 263 +50 264 +50 265 +50 266 +50 267 +50 268 +50 269 +50 270

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.3

8:10:21 AM ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht

Lincoln TWP.
T-76N R-24W
SEC. 29

18" X 62.0' C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

15" X 30.0' C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

18" X 24.0'
C.M.P.
(REMOVE)

+56 Prop. Jt.
Type "C" Ent.
(ENT270)

84TH AVE

+46 Prop. Jt.
Type "C" Ent.
(ENT276)

(ENT275)

(Close)

270

275

280

285

W2

T1

F05

F02

F03

F0

IA 92 (ML092)

POT STA 283+68.17 ML092
= PI STA 1383+68.17 SR57N

15" X 28.0'
C.M.P.

15" X 36.0' C.M.P.

15" X 37.0'
Conc. Pipe

R-57 (SR57N)

San.2

+56 Prop. Jt.
Type "C" Ent.
(ENT270)

18" X 35.0' C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

(Close)

15" X 48.0'
C.M.P.
(REMOVE)

POT STA 283+73.24 ML092
= PI STA 1283+73.24 SR57S

18" X 57.0' C.M.P.
(REMOVE)

R-57 (SR57S)

Sta. 277+57.37
2' X 2' X 53.0' RCB
W/ 30" Conc. Pipe Extension
D.A. = 4 Ac - R

REMOVE
Install
F.L. = Lt. Rt.

0 50
FEET

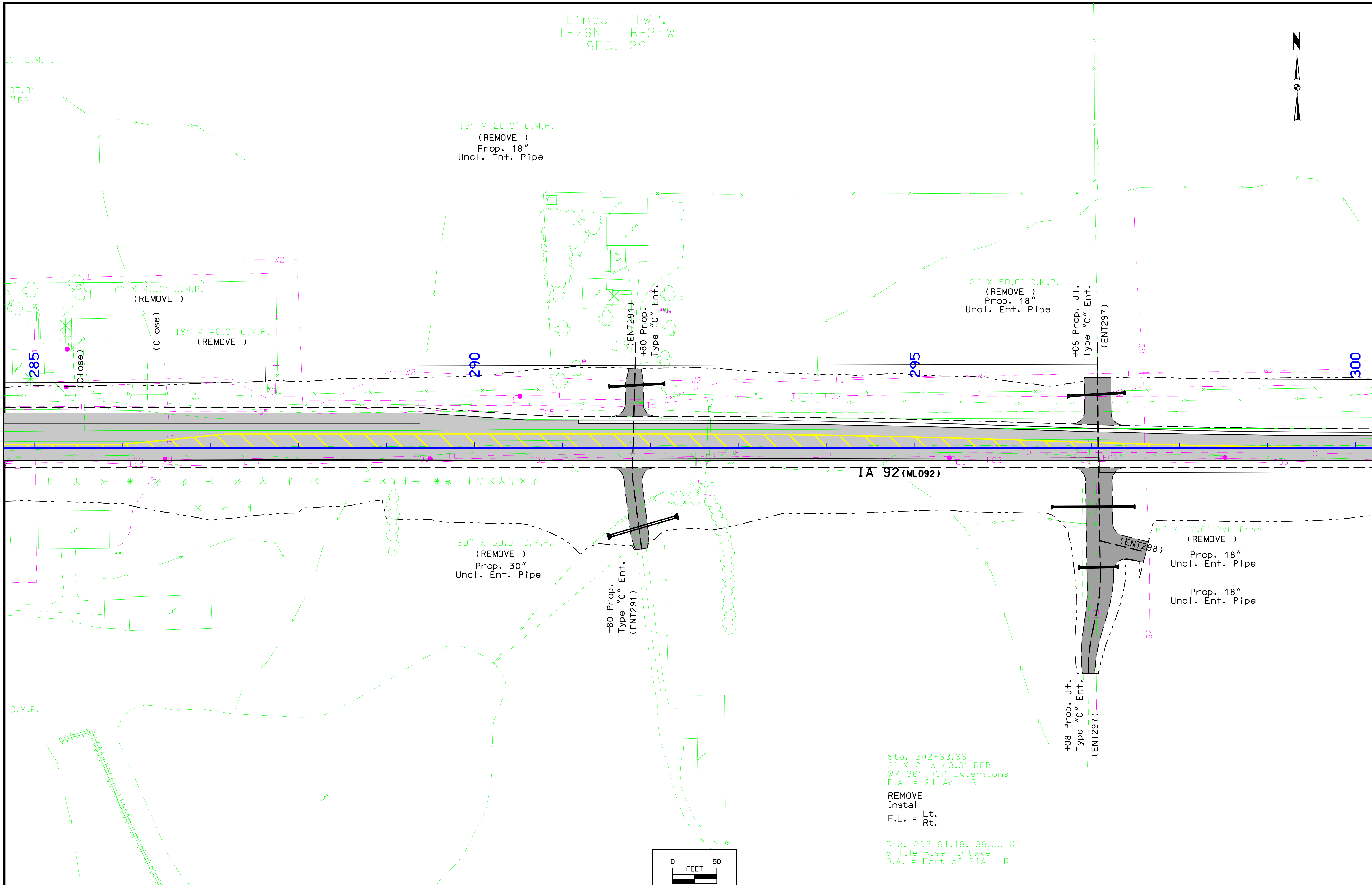
C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.4

8:10:23 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht

(ENT269)
+0.8%
+5.1%
270+56.00
+56
(ENT270)
-4.0%
+4.0%
-3.1%
+10.0%
(ENT276)
-4.0%
-6.5%
+46
(ENT275)
-4.0%
276+46.00
VPI +50.000
Elv 976.20
K = 246
Len 320.00 ft
+0.700%
-0.600%
Existing Road
CL Profile
+00 Lt.
968.18
-0.50% Lt. Ditch Grade
-0.50% Rt. Ditch Grade
+00 Rt.
967.90
+5.50% Rt. Ditch Grade
+3.80% Rt. Ditch Grade
+50 Rt.
959.65
+00 Lt.
967.18
-9.20% Ditch Grade
+00 Lt.
957.98
-3.00% DG Lt.
+60 Rt.
965.60
+1.50% Rt. Ditch Grade
+65 Lt.
956.03
+0.90% Lt. DG
+00 Lt.
956.19
+5.20% Lt. Ditch Grade
+50 Lt.
956.64
+00 Rt.
969.20
+0.50% Rt. Ditch Grade
+3.50% Lt. Ditch Grade
+00 Lt.
964.44
+00 Lt.
967.94
+75 Rt.
970.08
-1.00% Rt. Ditch Grade
-0.50% Lt. Ditch Grade
+50 Lt.
966.69
+50 Lt.
969.05
+50 Rt.
967.50
+50 Rt.
968.32
Lt
Rt
Ditch Grade
Vari.
Ditch Grade
Ditch Grade
Side Road
Side Road
Ditch
Grade
(5 ft wide)
970.42 970.60 970.77 970.95 971.12 971.30 971.47 971.65 971.82 972.00 972.17 972.35 972.52 972.70 972.87 973.05 973.22 973.40 973.57 973.75 973.92 974.10 974.27 974.45 974.62 974.80 974.97 975.15 975.30 975.43 975.53 975.60 975.65 975.68 975.68 975.65 975.60 975.53 975.42 975.30 975.15 975.00 974.85 974.70 974.55 974.40 974.25 974.10 973.95 973.80 973.65 973.50 973.35 973.20 973.05 972.90 972.75 972.60 972.45 972.30
270 +50 271 +50 272 +50 273 +50 274 +50 275 +50 276 +50 277 +50 278 +50 279 +50 280 +50 281 +50 282 +50 283 +50 284 +50 285
1005 1000 995 990 985 980 975 970 965 960 955 950 945 940 935 930

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.5

8:10:24 AM ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht



ENGLISH | IOWA DOT | DESIGN TEAM Schoenrock\Holst\Bennett\Janus | WARREN COUNTY | PROJECT NUMBER STP-092-5(51)--2C-91 | SHEET NUMBER D.6

8:10:25 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht

(ENT291)
+2.0%
-4.0%
+4.0%
+8.0%
+1.6%
+80

(ENT297)
+1.4%
-4.0%
+4.0%
-0.75%
+80

(ENT298)
297+09.75
-3.0%+0.8%

Existing Road
CL Profile

+0.600%
+2.000%

-1.00% Rt.
Ditch Grade
+00 Rt.
966.00

-5.00% Rt.
Ditch Grade

-0.80% Lt. Ditch Grade

+00 Rt.
961.00

-0.50% Rt.
Ditch Grade

+00 Rt.
960.50

+0.50% Rt.
Ditch Grade
+00 Rt.
960.94

+50 Lt.
964.25

-1.20% Lt. Ditch Grade

-3.00% Rt. Ditch Grade

+50 Rt.
961.19

+1.00% Rt. Ditch Grade
+20 Rt.
956.10

+75 Lt
961.55

+4.90% Rt.
Ditch Grade
+70 Rt.
957.60

+50 Rt.
961.52

VPI +00.000
Elv 967.50
K = 138
Len 360.00 ft

+80 Lt.
964.01

+1.20% Lt. Ditch Grade

+3.50% Lt. Ditch Grade

+1.60% Rt. Ditch Grade

+50 Lt.
969.96

+50 Lt.
970.46

+0.50% Lt.
Ditch Grade

+2.30% Rt. Ditch Grade

+75 Rt.
966.72

Lt
Ditch Grade (5 ft wide)
Transition
Ditch Grade
Rt
Ditch Grade (5 ft wide)
No Ditch
Ditch Grade

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.7

8:10:26 AM ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht

Lincoln TWP.
T-76N R-24W
SEC. 29

Lincoln TWP.
T-76N R-24W
SEC. 28

Sta. 307+42.49
3' X 2' X 46.0' RCB
W/ 36" RCP Extensions
D.A. = 16 Ac - R

REMOVE
Install
F.L. = Lt.
Rt.

300 305 310 315

IA 92 (ML092)

15" X 20.0' C.M.P.
(REMOVE)
(Close)

15" X 20.0' C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

+31 Prop.
Type "C" Ent.
(ENT305)

90TH AVE (SR90TH)

POT STA 310+28.21 ML092
= POT STA 2310+28.21 SR90TH

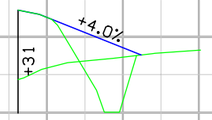
(Close)

0 50
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.8

8:10:27 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht

(ENT305)



VPI +00.000
Elv 985.50
K = 247
Len 790.00 ft

+2.000%
-1.200%
+00 Rt.
976.50
+00 Rt.
978.50
+00 Rt.
975.90
+1.00% Rt. Ditch Grade
-1.30% Rt. Ditch Grade
+1.20% Lt. Ditch Grade
-0.50% Lt. Ditch Grade
+00 Lt.
977.06
+50 Lt.
976.31
-2.70% Lt. Ditch Grade
-3.80% Rt. Ditch Grade
Existing Road
CL Profile
+50 Lt.
968.21
+00 Lt.
969.26
+0.70% Lt. Ditch Grade
+1.00% Lt. Ditch Grade
+20 Rt.
965.10
+0.90% Rt.
Ditch Grade
-0.50% Rt.
Ditch Grade
+00 Rt.
964.50
+25 Rt.
964.25
+00 Rt.
964.70
-1.200%
+0.800%
+50 Lt.
971.76
+0.50% Lt. Ditch Grade
+1.30% Rt. Ditch Grade
+75 Rt.
967.99
VPI +00.000
Elv 974.70
K = 140
Len 280.00 ft
+50 Lt.
972.76
-0.80% Lt. Ditch Grade
-0.50% Rt. Ditch Grade
+50 Rt.
971.57
+00 Rt.
970.82

Lt
Rt
Ditch Grade
Ditch Grade
Var.
Ditch Grade
Side Road
Ditch Grade

981.02 981.28 981.52 981.74 981.93 982.09 982.23 982.34 982.43 982.49 982.53 982.54 982.52 982.48 982.42 982.33 982.21 982.07 981.91 981.72 981.50 981.26 980.99 980.70 980.40 980.10 979.80 979.50 979.20 978.90 978.60 978.30 978.00 977.70 977.40 977.10 976.80 976.50 976.21 975.96 975.75 975.59 975.47 975.40 975.37 975.39 975.45 975.56 975.71 975.90 976.10 976.30 976.50 976.70 976.90 977.10 977.30 977.50 977.70 977.90

300 +50 301 +50 302 +50 303 +50 304 +50 305 +50 306 +50 307 +50 308 +50 309 +50 310 +50 311 +50 312 +50 313 +50 314 +50 315

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.9

8:10:28 AM ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht

Lincoln TWP.
T-76N R-24W
SEC. 28

Sta. 315+86.80
2' X 2' X 46.0' RCB
W/ 30" RCP Extensions
D.A. = 6 Ac - R

REMOVE
Install
F.L. = Lt. Rt.

Sta. 329+73.63
2' X 2' X 47.0' RCB
W/ 30" Conc. Pipe Extension
D.A. = 8 Ac - F

REMOVE
Install
F.L. = Lt. Rt.

12" X 20.0' C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

+55 Prop. Jt.
Type "C" Ent.
(ENT323)

315 320 325 330

W2 T1 F05 F0 F02 F03

IA 92(ML092)

(ENT322)

+55 Prop. Jt.
Type "C" Ent.
(ENT323)

(Close)

18" X 48.0' C.M.P.
(REMOVE)

(Close)

15" X 20.0' C.M.P.
(REMOVE)

15" X 16.0'
Conc. Pipe
(U.A.C.)

18" X 15.0' C.M.P.
(REMOVE)

0 50
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.10

8:10:29 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht

(ENT323)
+1.3%
-4.0%
+4.0%
+55
+2.44%
+1.9%
VPI +00.000
Elv 983.50
K = 245
Len 980.00 ft
(ENT322)
+0.5%
323+55.00
Existing Road
CL Profile
+0.800%
-3.200%
+00 Lt.
973.26
+50 Rt.
971.50
+0.50% Lt. Ditch Grade
-0.90% Lt. Ditch Grade
-6.30% Rt. Ditch Grade
+00 Lt.
970.76
+1.50% Rt. Ditch Grade
+0.50% Rt. Ditch Grade
+3.30% Rt.
Ditch Grade
+40 Rt.
962.00
+60 Rt.
962.03
+50 Rt.
965.00
+00 Rt.
970.25
+00 Lt.
971.46
-1.80% Lt.
Ditch Grade
+00 Lt.
969.66
-3.00% Lt. Ditch Grade
-6.00% Rt. Ditch Grade
+50 Lt.
965.16
-1.60% Lt.
Ditch Grade
+50 Lt.
963.56
-4.80% Lt. Ditch Grade
+50 Rt.
959.50
-1.00% Rt. Ditch Grade
+50 Rt.
957.50
+50 Lt.
953.96
-0.50% Lt.
Ditch Grade
+80 Lt.
953.31
-6.30% Rt. Ditch Grade
-2.80% Rt.
Ditch Grade
+00 Rt.
945.05
+80 Rt.
942.81
+90 Rt.
942.90
Lt
Rt
Ditch Grade
Vari.
Ditch Grade
Ditch Grade
Vari.
978.10 978.30 978.50 978.70 978.90 979.10 979.30 979.50 979.69 979.87 980.01 980.13 980.23 980.30 980.34 980.36 980.36 980.32 980.27 980.18 980.07 979.94 979.78 979.59 979.38 979.15 978.89 978.60 978.29 977.95 977.58 977.19 976.78 976.34 975.87 975.38 974.87 974.32 973.76 973.16 972.54 971.90 971.23 970.53 969.81 969.07 968.29 967.50 966.70 965.91 965.16 964.45 963.80 963.18 962.62 962.10 961.63 961.20 960.82 960.48
315 +50 316 +50 317 +50 318 +50 319 +50 320 +50 321 +50 322 +50 323 +50 324 +50 325 +50 326 +50 327 +50 328 +50 329 +50 330
1005 1000 995 990 985 980 975 970 965 960 955 950 945 940 935 930

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.11

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Lincoln TWP.
T-76N R-24W
SEC. 28

Sta. 332+80.53
2' X 2' X 50.0' RCB
W/ 30" RCP Extensions
D.A. = 17 Ac - R

REMOVE
Install
F.L. = Lt. / Rt.

330 335 340 345

W2 T1 F05 F03 F02 F0 E1

IA 92 (ML092)

TS Sta 337+72.34
SC Sta 339+32.34
PI Sta 338+79.02
PI Sta 342+29.48
PI Sta 345+19.31

18" X 23.0' C.M.P.
(REMOVE)

+15 Prop. Type "C" Ent. (ENT331)

+03 Prop. Type "C" Ent. (ENT341)

(Close)

Prop. 36" Uncl. Ent. Pipe

18" X 57.0' C.M.P.
(REMOVE)
12" X 24.0' C.M.P.
(REMOVE)

Sta. 341+78.56
2' X 2' X 46.0' RCB
W/ 30" RCP Extensions
D.A. = 4 Ac - F

REMOVE
Install
F.L. = Lt. / Rt.

0 FEET 50

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.12

8:10:31 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht

(ENT331)

+15

+4.0%

+8.0%

(ENT341)

+03

-4.0%

+6.0%

-0.8%

+2.15%

VPI +00.000
Elv 980.65
K = 247
Len 840.00 ft

-0.500%

+2.900%

Existing Road
CL Profile

-3.200%

+2.900%

+00 Lt.
965.97

+1.70% Lt. Ditch Grade

-2.50% Lt. Ditch Grade

+10 Lt.
971.24

+00 Lt.
968.99

+0.80% Lt. Ditch Grade

+0.50% Rt. Ditch Grade

+50 Rt.
966.95

-5.90% Rt. Ditch Grade

+50 Rt.
967.45

+50 Rt.
961.55

+75 Rt.
960.98

+3.00% Rt. Ditch Grade

+50 Rt.
966.22

+00 Lt.
960.57

+2.70% Lt. Ditch Grade

+4.20% Lt. Ditch Grade

+2.50% Rt. Ditch Grade

+50 Rt.
961.95

+00 Lt.
956.37

+3.70% Rt. Ditch Grade

+00 Rt.
956.40

+2.10% Lt.

+15 Rt.
950.40

1.80% Lt. Ditch Grade

+3.00% Lt. Ditch Grade

+90 Lt.
950.07

+6.00% Rt. Ditch Grade

-6.90% Rt. Ditch Grade

+6.70% Rt. Ditch Grade

VPI +50.000
Elv 953.10
K = 136
Len 830.00 ft

+50 Rt.
941.08

+00 Rt.
943.00

Vari.

Ditch Grade

Ditch Grade

Vari.

Ditch Grade

Lt

Rt

960.19 959.95 959.75 959.59 959.49 959.43 959.41 959.44 959.52 959.65 959.81 960.03 960.29 960.60 960.95 961.35 961.79 962.28 962.82 963.40 964.03 964.71 965.42 966.15 966.87 967.60 968.32 969.04 969.73 970.40 971.04 971.66 972.25 972.81 973.35 973.87 974.36 974.82 975.26 975.68 976.07 976.43 976.77 977.08 977.37 977.63 977.87 978.08 978.26 978.42 978.56 978.67 978.75 978.81 978.85 978.86 978.84 978.80 978.73 978.64

330 +50 331 +50 332 +50 333 +50 334 +50 335 +50 336 +50 337 +50 338 +50 339 +50 340 +50 341 +50 342 +50 343 +50 344 +50 345

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.13

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Lincoln TWP.
T-76N R-24W
SEC. 28

345

350

355

360

IA 92 (ML092)

SCS Sta 345+19.31

RT Sta 345+72.66

SCS Sta 346+79.31

SCS Sta 347+85.31

SCS Sta 348+91.96

SCS Sta 349+45.31

PI Sta 352+51.56

+40 Prop. Type "C" Ent. (ENT352)

(Close)

15" X 18.0' C.M.P. (REMOVE)

Prop. 18" Uncl. Ent. Pipe

SCS Sta 355+49.82

SCS Sta 356+03.17

RT Sta 357+09.82

+18 Prop. Type "C" Ent. (ENT359)

15" X 56.0' C.M.P. (REMOVE)

Prop. 36" Uncl. Ent. Pipe

Prop. 18" Uncl. Ent. Pipe

SCS PI Sta 342+33.59
Δ = 27° 58' 21.68" (LT)
Theta = 2° 59' 45.09"
Ls = 160.00
Ts = 461.25
Es = 47.46
P = 0.70
K = 79.99
Xc = 159.96
Yc = 2.79
LT = 106.68
ST = 53.35
LC = 159.98

Curve Data
Δ = 21° 58' 51.50" (LT)
T = 297.14
L = 586.97
R = 1,530.00
E = 28.59

SCS PI Sta 352+55.89
Δ = 28° 37' 45.84" (RT)
Theta = 2° 59' 45.09"
Ls = 160.00
Ts = 470.58
Es = 49.74
P = 0.70
K = 79.99
Xc = 159.96
Yc = 2.79
LT = 106.68
ST = 53.35
LC = 159.98

Curve Data
Δ = 22° 38' 15.66" (RT)
T = 306.25
L = 604.51
R = 1,530.00
E = 30.35

Sta. 358+05.35
2' X 2' X 39.0' RCB
W/ 30" RCP Extensions
D.A. = 5 Ac - F

REMOVE
Install
F.L. = Lt. Rt.

0 50 FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.14

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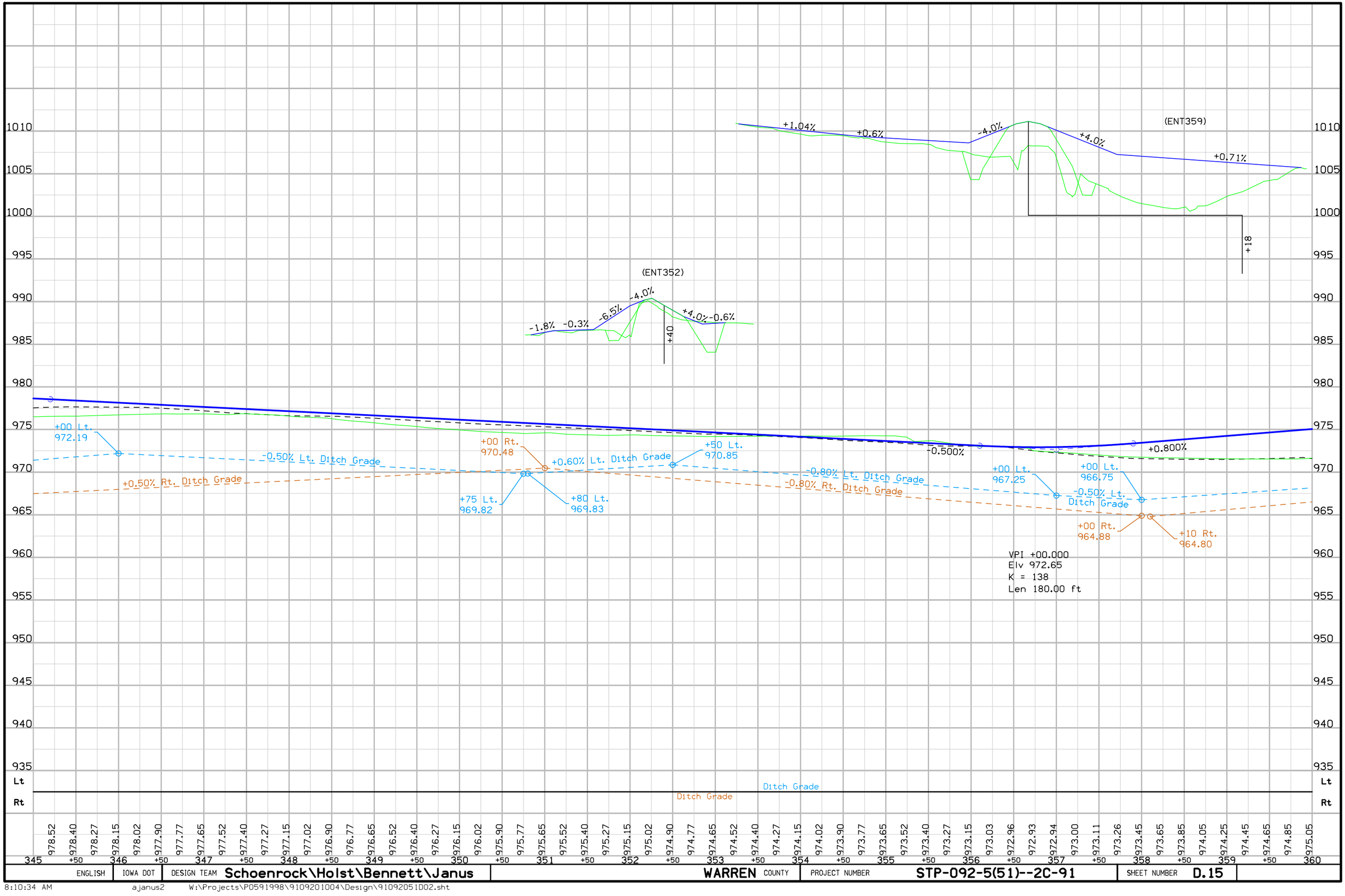


ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.15

Lincoln TWP.
T-76N R-24W
SEC. 28

Lincoln TWP.
T-76N R-24W
SEC. 27

Prop. 18"
Uncl. Ent. Pipe

15" X 28.0' C.M.P.
(REMOVE)

18" X 20.0' C.M.P.
(REMOVE)

15" X 87.0' C.M.P.
(REMOVE)

(Close)

(Close)

(Close)

360

365

370

375

+37' Prop.
Type "C" Ent.
(ENT365)

Prop. 18"
Uncl. Ent. Pipe

APPROX. SECTION LINE

W2

T1

FO5

IA 92 (ML092)

FO

FO2

FO3

18" X 46.0' C.M.P.

(ENT364)

18" X 64.0' C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

+37' Prop.
Type "C" Ent.
(ENT365)

Barn

Building

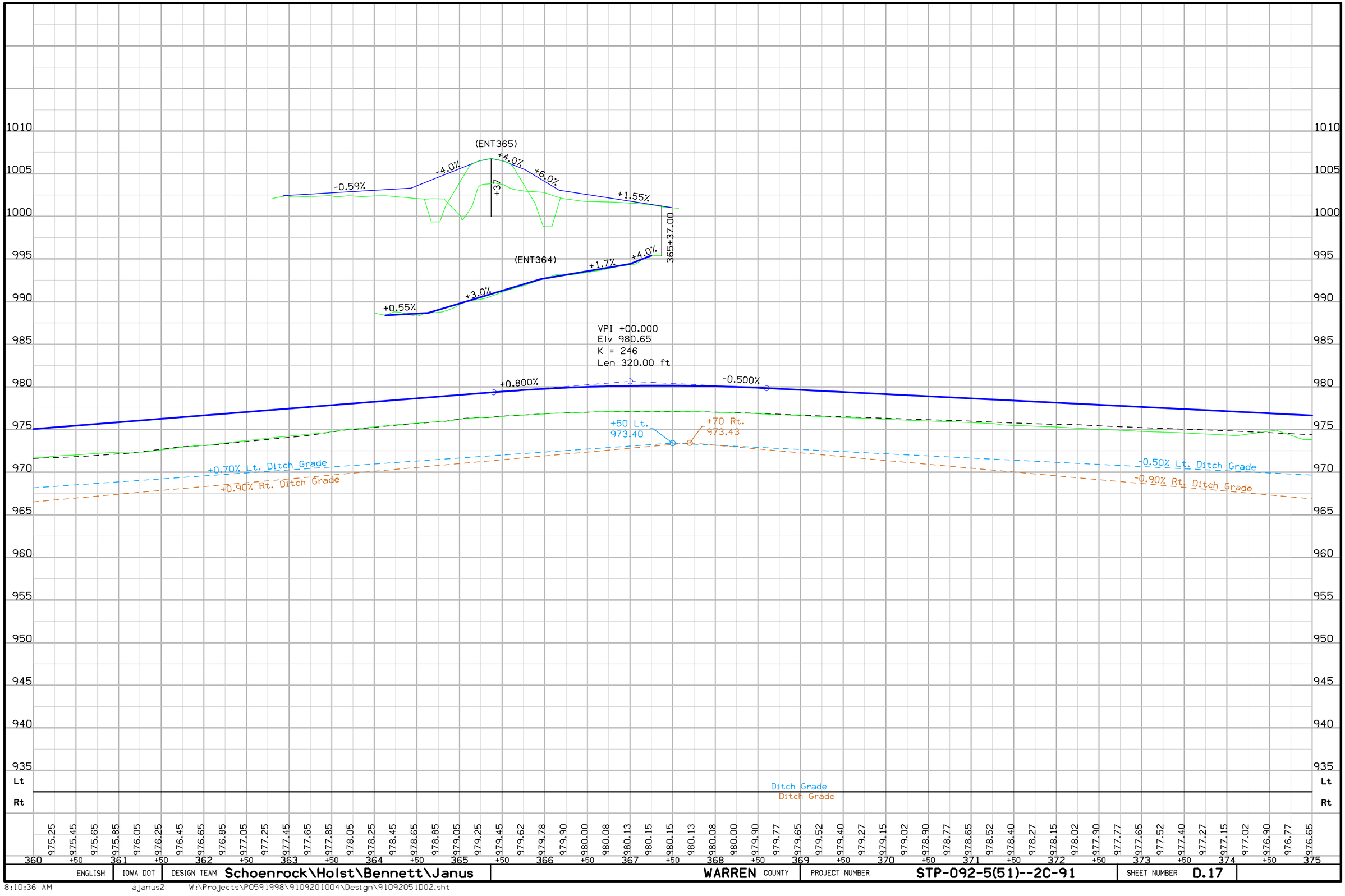
Shed

House

0 50
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.16

8:10:35 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.17

8:10:36 AM ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht

Lincoln TWP.
T-76N R-24W
SEC. 27

N

T1

15" X 60.0' Conc. Pipe

18" X 32.0' Conc. Pipe/C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

15" X 37.0' C.M.P.
(REMOVE)

+45 Prop. Type "C" Ent. (ENT375)

(Close)

18" X 56.0' Conc. Pipe
(REMOVE)

375 380 385 390

W2 F05 T1 E2 F04

IA 92 (ML092)

F0 F01 F02 F03

18" X 41.0' C.M.P.
(REMOVE)

(Close) (Close) (Close)

+45 Prop. Type "C" Ent. (ENT375)

18" X 32.0' Conc. Pipe
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

15" X 24.0' C.M.P.
(REMOVE)

15" X 12.0' C.M.P.
(REMOVE)

Sta. 379+69.09
2' X 2' X 42.0' RCB
W/ 30" RCP Extensions
D.A. = 4 Ac - R

REMOVE
Install
F.L. = Lt. Rt.

0 50
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.18

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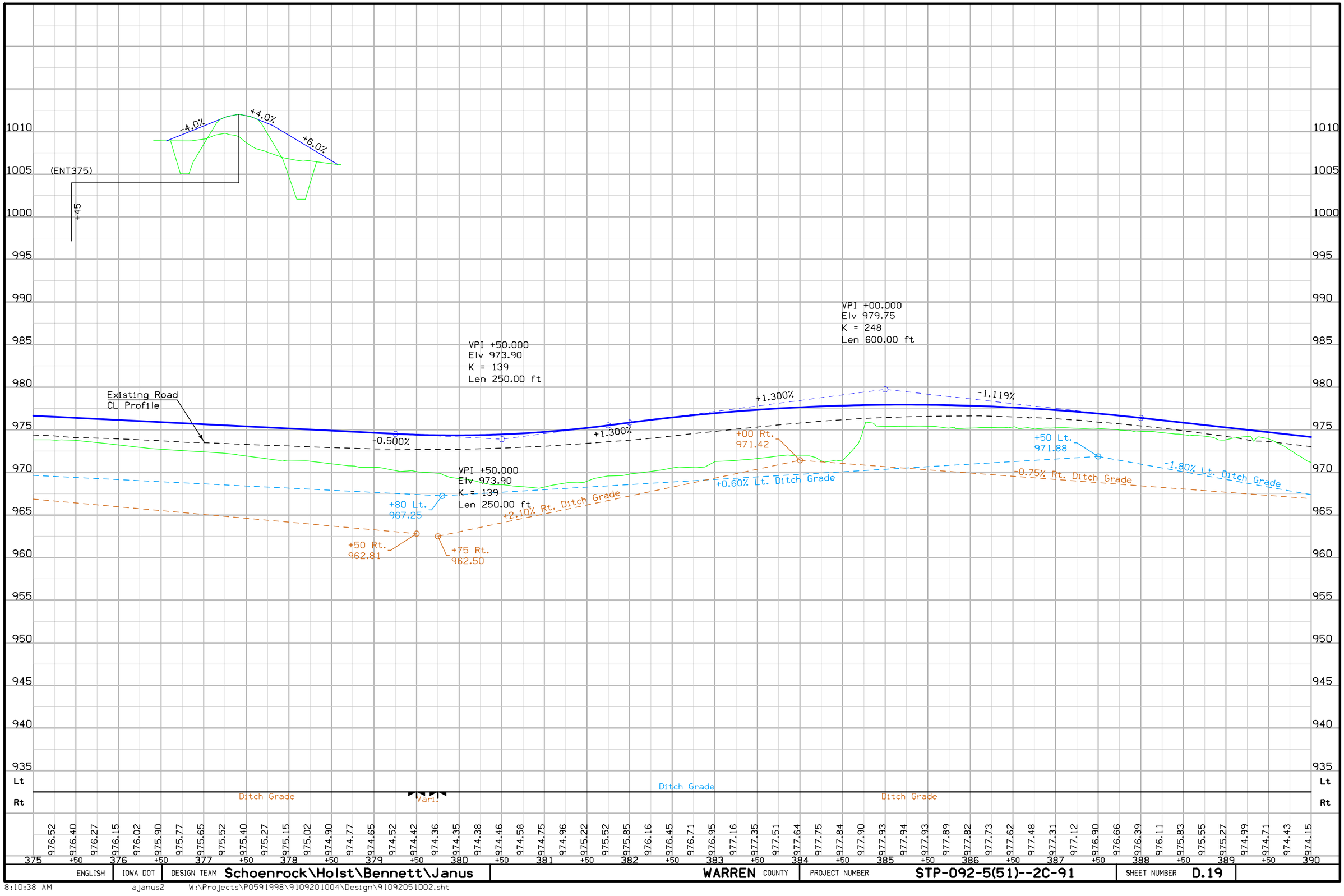

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.19

8:10:38 AM ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht

Lincoln TWP.
T-76N R-24W
SEC. 27

Curve Data
Δ = 0° 19' 35.74" (RT)
T = 34.20
L = 68.40
R = 12,000.00
E = 0.05

15" X 43.0' C.M.P.

15" X 30.0' Conc. Pipe

+16.98 Prop. Type "B" Ent.

R-63 (SR63N)

PI Sta 391+01.53

PI Sta 390+79.33

PT Sta 391+35.73

IA 92 (WL092)

15" X 28.0' C.M.P.

Sta. 390+78.55
2' X 2' X 132.0' RCB W/ 30" RCP Extensions
D.A. = 7 Ac - R

15" X 18.0' Conc. Pipe

Sta. 391+29.59, 61.89 Lt.
24" X 60.0' Conc Pipe
D.A. = 3 Ac - R

15" X 56.0' C.M.P.

Sta. 395+43.91
2' X 2' X 43.0' RCB W/ 30" RCP Extensions
D.A. = 9 Ac - R

R-63 (SR63S)

0 50
FEET

C ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.20	

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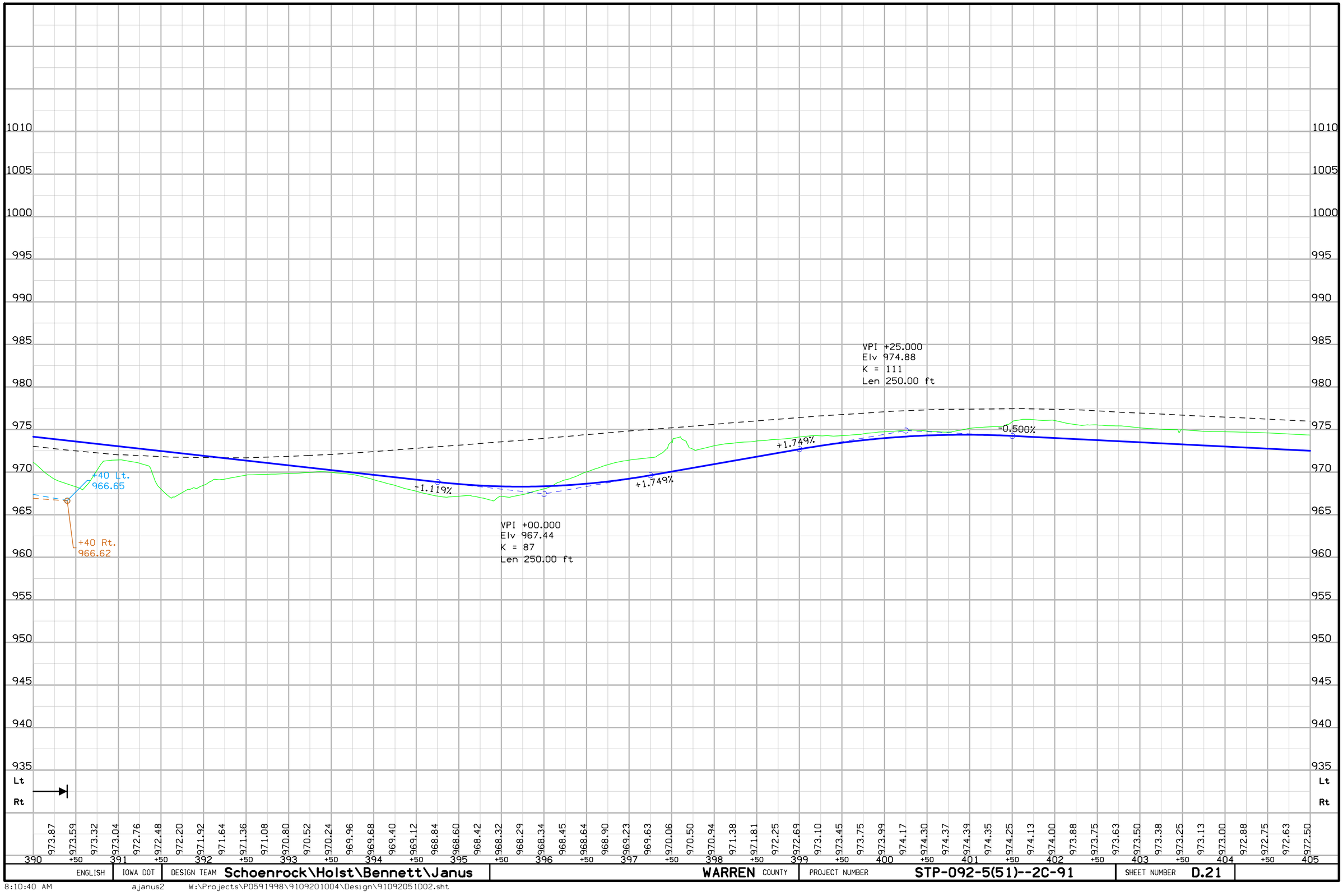

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.21

8:10:40 AM ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht

Lincoln TWP.
T-76N R-24W
SEC. 27

15" X 24.0' C.M.P.

Sta. 417+03.73, 37.07 Lt.
22' X 14" X 60.0' Arch Conc Pipe
D.A. = 4 Ac - r

Curve Data
Δ = 0° 25' 37.45" (LT)
L = 44.72
R = 89.45
D = 12,000.00
M = 0.08

Y ST (SR110N)

Y ST (SR110S)

(Close)

IA 92 (ML092)

Sta. 412+66.92, 247.41 RT
6 Tile Riser Intake
D.A. = 5A - R

Sta. 414+54.06, 307.09 RT
6 Tile Riser Intake
D.A. = 2A - R

Sta. 417+30.31, 350.36 Rt
30" X 44.0' CMP
D.A. = 16 Ac - R

0 50
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.22

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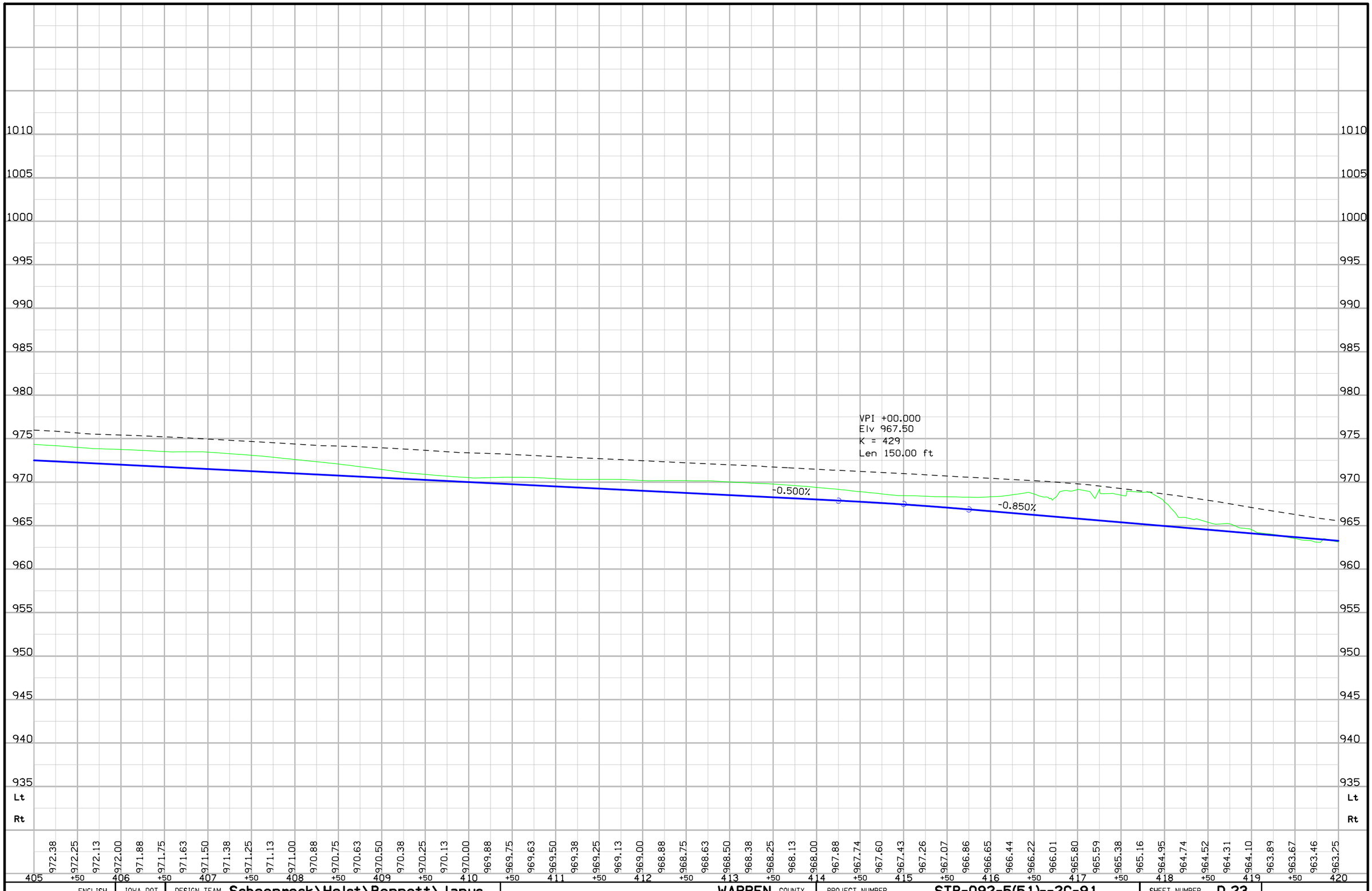


ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.23

Lincoln TWP.
T-76N R-24W
SEC. 26

Sta. 426+73.61.10
2' X 2' X 44.0' RCB W/ 30" Conc. Pipe Extensions
D.A. = 3 Ac - F-R

15" X 48.0' C.M.P.

18" X 64.0' C.M.P.

18" X 66.0' C.M.P.

18" X 101.0' C.M.P.

18" X 54.0' C.M.P.

18" X 69.0'
C.M.P.

+11.51 Prop.
Type "B" Ent.

+99.40 Prop.
Type "B" Ent.

+53.90 Prop.
Type "B" Ent.

+54.16 Prop.
Type "B" Ent.

+96.41 Prop.
Type "B" Ent.

+46.06 Prop.
Type "B" Ent.

420 425 430 435

IA 92 (ML092)

San.

+78.41 Prop.
Type "B" Ent.

+47.85 Prop.
Type "B" Ent.

6" X 78.0' PV

18" X 78.0' C.M.P.

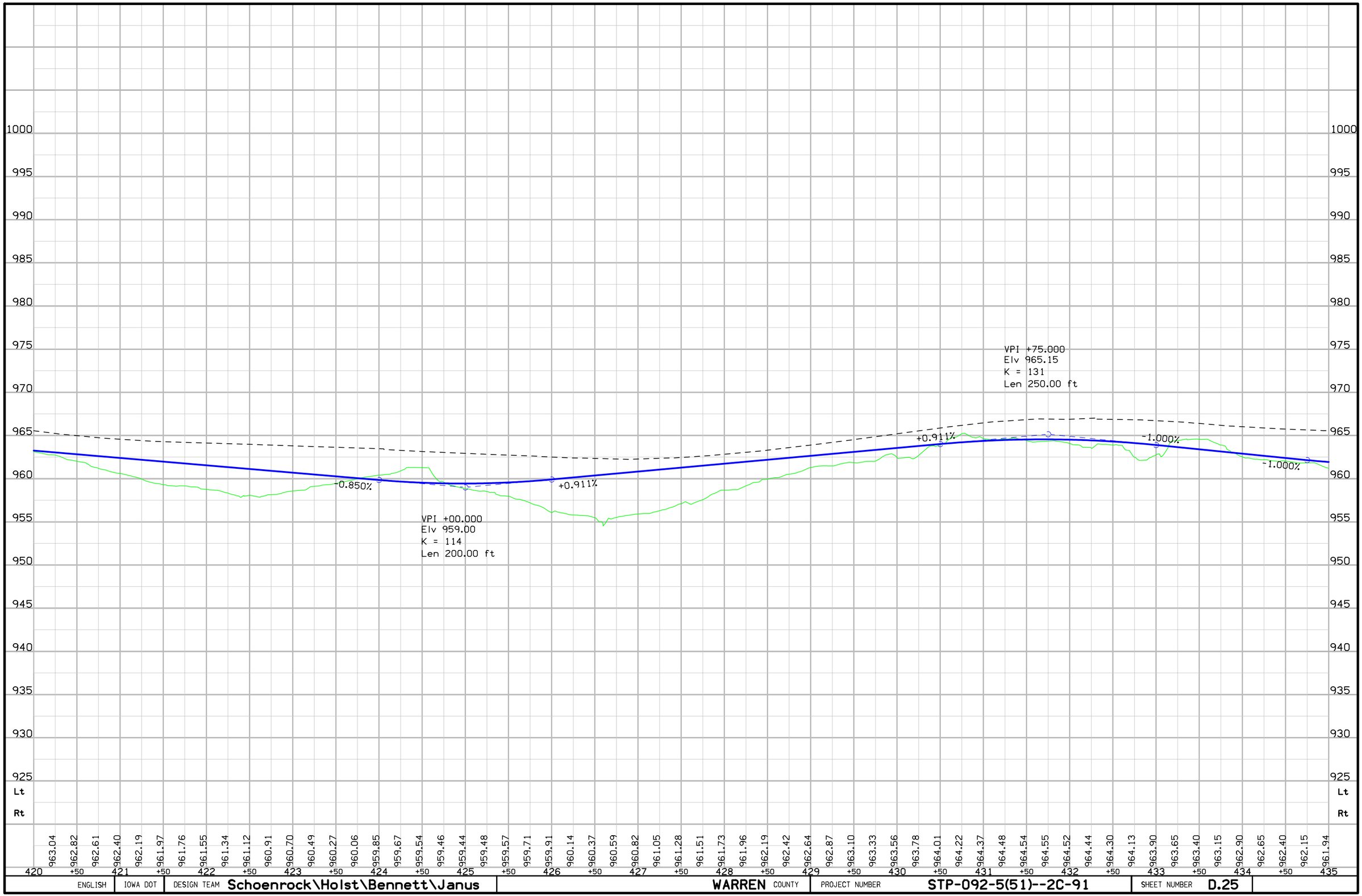
36" X 108.0' Conc. Pipe

Sta. 422+42.59
2' X 2' X 42.0' RCB W/ 30" RCP Extensions
D.A. = 8 Ac - F-R

0 FEET 50

C ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.24	

8:10:43 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.25

8:10:44 AM ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht

Lincoln TWP.
T-76N R-24W
SEC. 26

18" X 69.0'
C.M.P.

15" X 36.0' Conc. Pipe

12" X 48.0' C.M.P.

18"

SPRUCE ST

R ST

IA 92 (ML092)

435 440 445 450

PC Sta 439+11.62

PRC Sta 440+30.11

PT Sta 441+31.12

PT Sta 442+31.59

PC Sta 447+70.70

Sta. 443+18.01
End Full Width Paving,
Begin Widening

+08.06 Prop. Type "B" Ent.

+48.56 Prop. Type "B" Ent.

+23.75 Prop. Type "B" Ent.

+56.51 Prop. Type "B" Ent.

+17.01 Prop. Type "B" Ent.

+42.01 Prop. Type "B" Ent.

+48.51 Prop. Type "B" Ent.

+54.51 Prop. Type "B" Ent.

(Close)

Curve Data
Δ = 11° 07' 40.08" (LT)
T = 109.59
L = 218.49
R = 1,125.00
E = 5.33

Curve Data
Δ = 10° 15' 40.29" (RT)
T = 101.01
L = 201.48
R = 1,125.00
E = 4.53

78.0' PVC. Pipe

24" X 41.0' Plastic Pipe

18" X 85.0' C.M.P.

24" X 121.0' Conc. Pipe

24" X 67.0' C.M.P.

24" X 71.0' C.M.P.

Sta. 436+45.20
2' X 2' X 39.0' RCB W/ 30" RCP Extensions
D.A. = 6 Ac - F-R

0 50
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER	STP-092-5(51)--2C-91	SHEET NUMBER D.26

8:10:45 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht

VPI +00.000
Elv 966.54
K = 155
Len 150.00 ft

VPI +75.000
Elv 961.15
K = 88
Len 200.00 ft

+1.268%
+1.268%
+0.300%

967.49

END FULL WIDTH PAVING
STA 443+18.01
ELV 967.49

1000 995 990 985 980 975 970 965 960 955 950 945 940 935 930 925

Lt
Rt

961.79 961.72 961.72 961.79 961.93 962.14 962.42 962.74 963.05 963.37 963.69 964.00 964.32 964.64 964.95 965.27 965.59 965.89 966.14 966.36 966.53 966.67 966.77 966.84 966.92 966.99 967.07 967.14 967.22 967.29 967.37 967.44

435 +50 436 +50 437 +50 438 +50 439 +50 440 +50 441 +50 442 +50 443 +50 444 +50 445 +50 446 +50 447 +50 448 +50 449 +50 450

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.27

8:10:46 AM ajanus2 W:\Projects\P0591998\9109201004\Design\91092051D02.sht

18" X 46.0' C.M.P.

S KENWOOD BLVD

SOUTH P ST

SOUTH N ST

Building

450

455

460

465

P.I. Sta 454+73.40

Sta. 465+01.01
End Widening

IA 92 (ML092)

P.I. Sta 451+22.49

Curve Data
Δ = 6° 59' 27.10" (LT)
D = 0° 59' 27.10"
L = 702.70
R = 5,759.23
E = 10.73
L = 701.73
R = 5,751.23
E = 10.72

House

Garage

24" X 60.0' C.M.P.

0 50
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER	STP-092-5(51)--2C-91	SHEET NUMBER D.28

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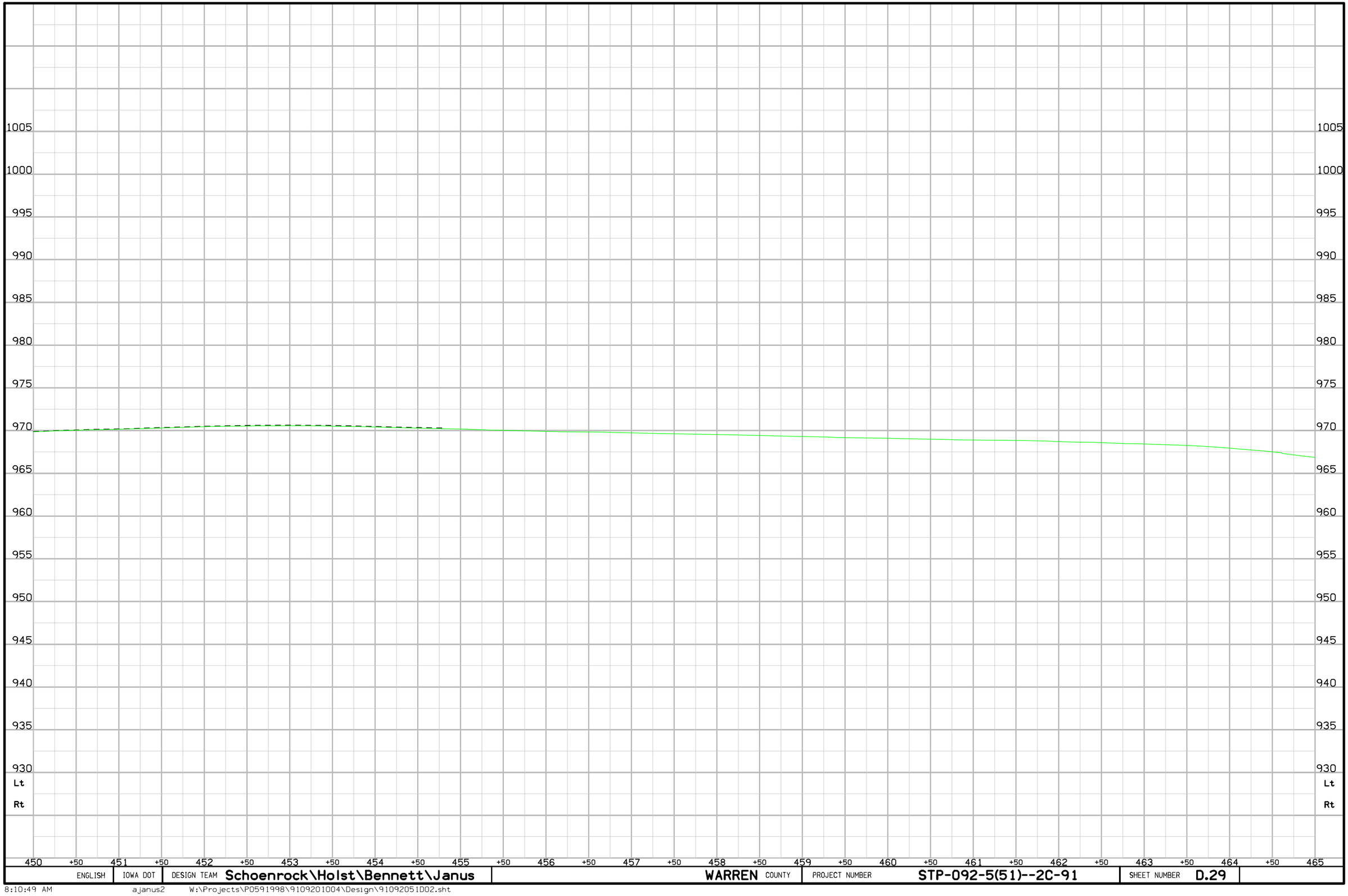

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.29

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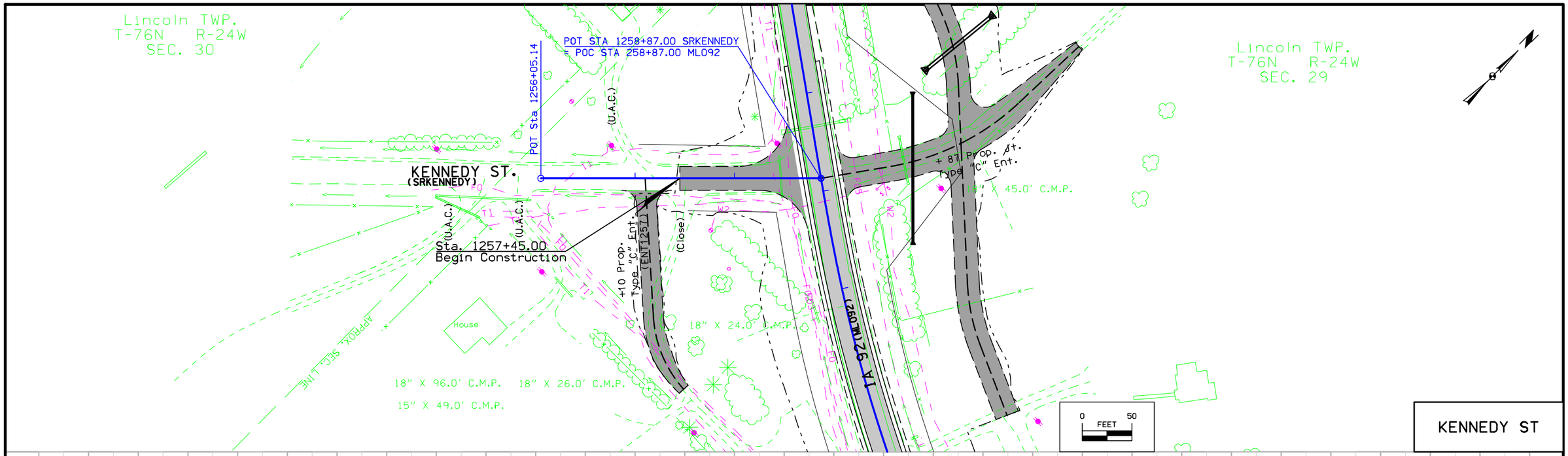

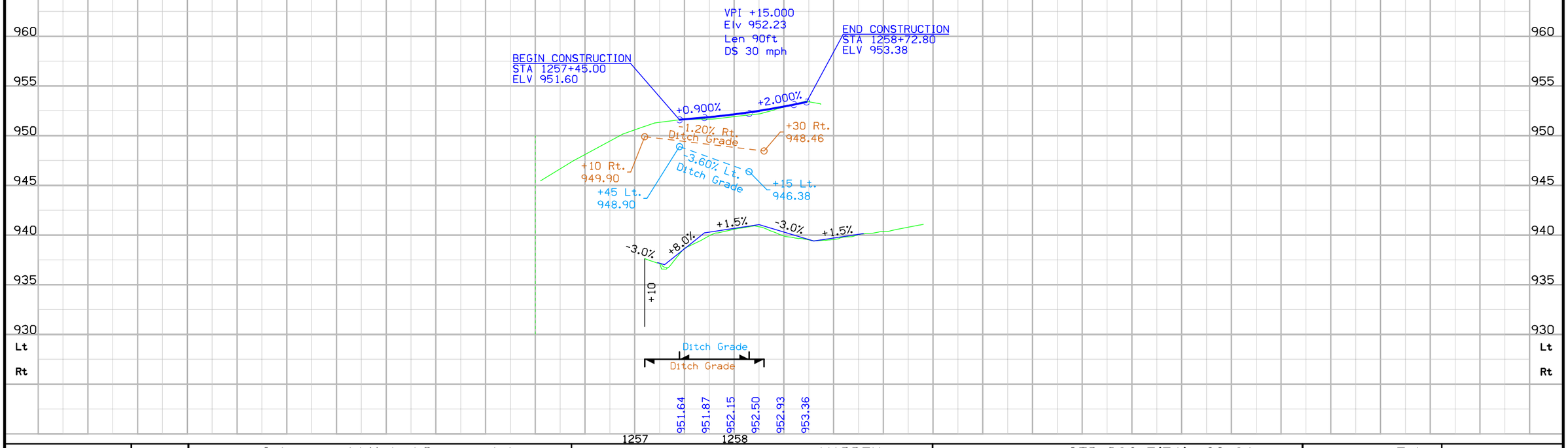

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER E.1	

8:10:54 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051E01.sht

Lincoln TWP.
T-76N R-24W
SEC. 29

Prop. 18" Uncl. Ent. Pipe

15" X 48.0' C.M.P. (REMOVE)

1280

Sta. 1281+00.00
Begin Construction

Prop. Type "C" Ent.

R-57 (SR57S)

W2

Prop. 18" Uncl. Ent. Pipe

PI STA 1283+73.24 SR57S
= POT STA 283+73.24 ML092

18" X 57.0' C.M.P. (REMOVE)

Prop. Type "C" Ent. (ENT1281)

IA 92 (ML092)

15" X 28.0' C.M.P. (REMOVE)

PI STA 1283+68.17 SR57N
= POT STA 283+68.17 ML092

1385 (Close)

Sta. 1385+30.00
End Construction

1390

R-57 (SR57N)

U.A.C.

15" X 37.0' Conc. Pipe (U.A.C.)

15" X 36.0' C.M.P. (U.A.C.)

Sta. 283+86, 712.79 Lt.
2' X 2' X 71.0' RCB
D.A. = 16 Ac - R
(U.A.C.)

Sta. 283+94.88, 499.59 Lt.
24" X 69.0' Conc Pipe
D.A. = 4 Ac - R
(U.A.C.)

0 FEET 50

R-57

BEGIN CONSTRUCTION
STA 1281+00.00
ELV 966.29

+2.500%

972.82

VPI +70.000
Elv 971.05
Len 90ft
DS 30mph

972.53

-2.000%

-1.010%

END CONSTRUCTION
STA 1285+30.00
ELV 970.45

+00 Lt. 962.30

+2.60% Lt. Ditch Grade

+80 Lt. 966.98

+4.30% Rt. Ditch Grade

+80 Rt. 966.14

+00 Rt. 958.40

+65 Rt. 968.50

3.70% Rt. Ditch Grade

+30 Rt. 966.09

+65 Lt. 967.02

3.40% Lt. Ditch Grade

+30 Lt. 964.81

-8.0% +4.0% -4.0% -3.1%

92

Ditch Grade
Ditch Grade

Ditch Grade
Ditch Grade

Lt	966.29	966.91	967.54	968.16	968.79	969.41	970.04	970.66	971.29	971.91	972.54	972.95	972.45	971.95	971.48	971.09	970.78
Rt																	

975 970 965 960 955 950 945

1276 1277 1278 1279 1280 1281 1282 1283

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER E.2

8:10:55 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051E01.sht

Sta. 310+13.95,
526.16 Rt
36" X 33.0' CMP
D.A. = 25 Ac - R

REMOVE
Install
F.L. = Lt. / Rt.

Lincoln TWP.
T-76N R-24W
SEC. 29

Lincoln TWP.
T-76N R-24W
SEC. 28

POT Sta 2303+28.16

POT STA 2310+28.21 SR90TH
= POT STA 310+28.21 ML092

POT Sta 2317+28.21

2305

2310

2315

90TH AVE (SR90TH)

Sta. 2305+85.00
Begin Construction

Sta. 2313+85.00
End Construction

15" X 28.0' C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

+80 Prop.
Type "C" Ent.
(ENT2307)

IA 92 (ML092)

+08 Prop.
Type "C" Ent.
(ENT2313)

15" X 28.0' C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

0 50
FEET

90TH AVE

VPI +20.000
Elv 960.02
K = 65
Len 240.00 ft
DS 40 mph

VPI +40.000
Elv 973.22
K = 37
Len 110.00 ft
DS 30 mph

VPI +55.000
Elv 973.19
K = 37
Len 200.00 ft

VPI +30.000
Elv 979.14
K = 46
Len 90.00 ft
DS 30 mph

BEGIN CONSTRUCTION
STA 2305+85.00
ELV 956.93

END CONSTRUCTION
STA 2313+85.00
ELV 979.93

+2.290%
+6.000%
+3.000%
-2.000%
+3.400%
+1.430%

-3.0% +8.0%
+80

-3.0% +1.0%
+08

+85 Lt.
952.53
+85 Rt.
951.55

+3.30% Lt. Ditch Grade
+3.50% Rt. Ditch Grade

+75 Lt.
965.40
+75 Rt.
965.20

+85 Rt.
970.93
+85 Lt.
970.12

+1.40% Rt. Ditch Grade
+1.90% Lt. Ditch Grade

+85 Lt.
975.82
+85 Rt.
975.13

Ditch Grade
(V Ditch)
Ditch Grade
Ditch Grade
Ditch Grade
(5' wide Ditch)
Ditch Grade
Ditch Grade
Ditch Grade
Ditch Grade

980 975 970 965 960 955 950

Lt
Rt

957.27 957.89 958.61 959.42 960.34 961.34 962.45 963.65 964.94 966.34 967.82 969.32 970.79 972.10 973.24 974.22 975.02 975.66 975.29 974.84 974.56 974.45 974.51 974.73 975.13 975.69 976.42 977.27 978.10 978.80 979.36 979.78

2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER E.3	

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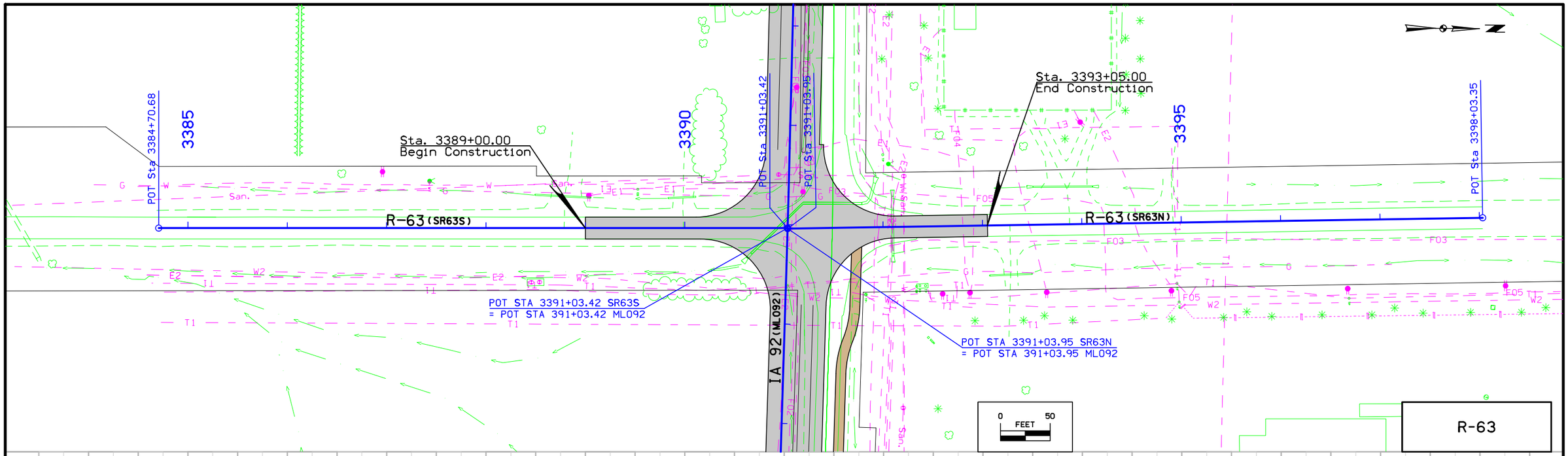

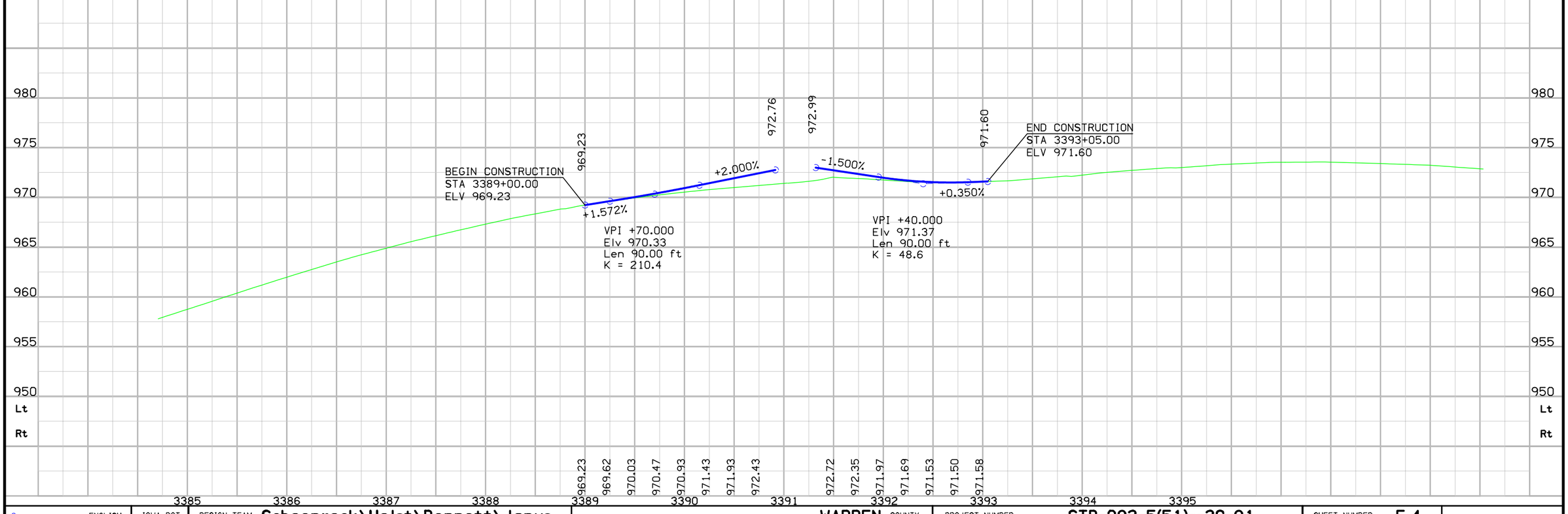

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER	STP-092-5(51)--2C-91	SHEET NUMBER E.4

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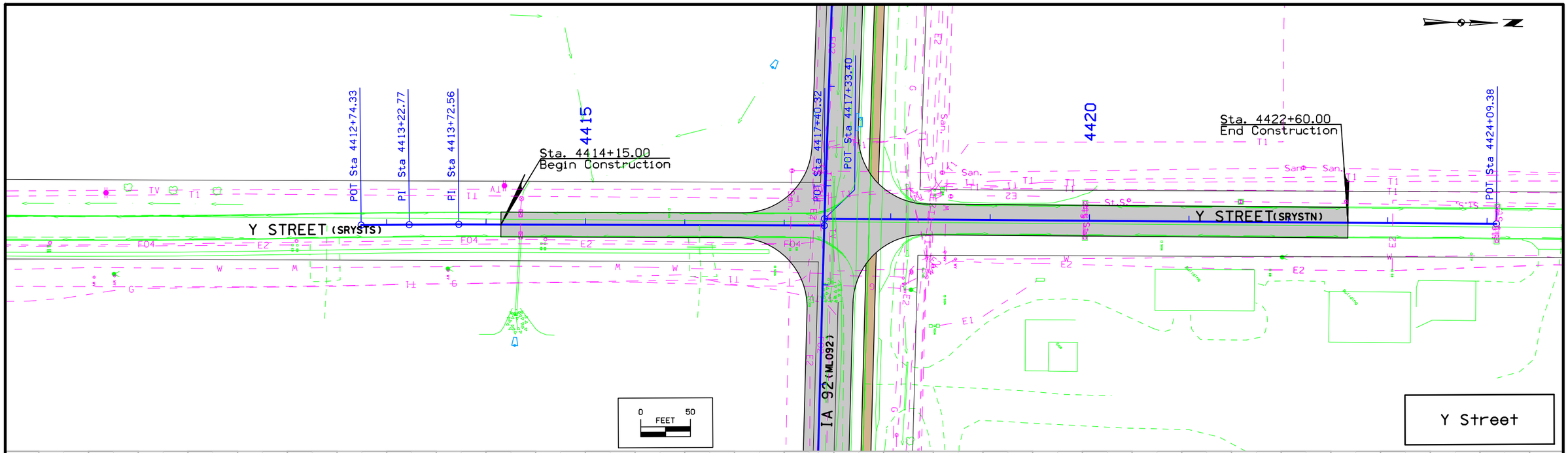
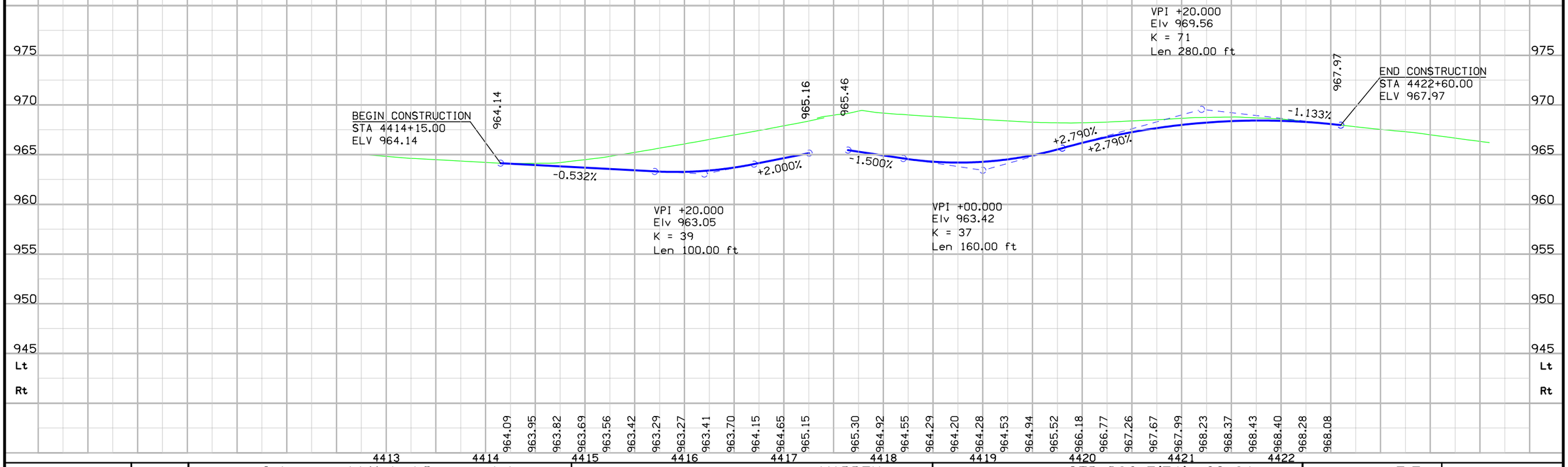




C ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER	STP-092-5(51)--2C-91	SHEET NUMBER	E.5

8:10:59 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051E01.sht

Survey Information

Warren County
STP-092-5(46)—2C-91
IA 92 From Just W. of Co. Rd. R-57
To S. Kenwood Blvd. in Indianola
04-91-092-010-01
Sap-0482.2

General Information

Measurement units for this survey are US survey feet. This survey is for improvements on IA 2 in Warren County. This field survey was to obtain roadway and drainage features and break lines. The entire digital terrain model and topography in the corridor will be completed by supplemental aerial photography..

Vertical Control
This survey control is relative to NAVD88 Datum in accordance with 3rd. order vertical accuracy. NAVD88 height was transferred to the project at CP # 25 & CP # 35 using averaging redundant IARTN observations applying Geoid 2009. Iowa RTN reference stations are relative vertically to highly accurate National Geodetic Survey (NGS) Reference Stations that are used by NGS for reporting heights relative to NAVD88 datum. A 3-wire level loop was run from CP # 25 through the project benchmarks and ended at CP # 35. The loop error was allowable and the error was distributed proportionately among the project marks

Vertical equations are as follows:

Datum Benchmarks
CP # 25 this survey, elevation 958.76=
G025 Project # STP-092-5(46)--2C-91, elevation 958.86

CP # 35 this survey, elevation 967.18=
G035 Project # STP-092-5(46)--2C-91, elevation 967.14

Horizontal Control

The GPS Network along this project was collected by IDOT Preliminary Survey Crews. Information about that network can be found in the 0482gpspoints.rep file included with this survey in NAD83(1996) Datum.. Iowa State Plane Coordinates were transformed to project coordinates using the following information.

General Information for GPS Project : STP-092-5(46)--2C-91 SAP 482
State Plane Coordinate Zone 1402 (Iowa South Lambert)

Average Project Latitude = 41 21 46.06621
Resulting Radius = 6363322.382 (Meters)
Mean Project Elevation = 279.990 (Meters)
Sea Level Factor = 0.999956001
Average Project Scale Factor = 0.999953270
Combined Factor (Grid) = 0.999909273
1 / Grid = 1.000090735
Vertical Datum = NAVD 88 <> Horizontal Datum = NAD 83 (1996)

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

Alignment Information

The horizontal alignment for this survey is a retrace of As-built Plans No. P-569 Survey stationing was equated to the plans at PI Sta. 263+46.7 and carried back and ahead with no equation throughout the survey.

Equations are as follows:

PI Sta. 263+46.7 This Survey
= PI Sta. 263+46.7 As-built Plans Project No. P-569

PI Sta. 283+72.3 This Survey
= PI Sta. 283+70.97 As-built Plans Project No. P-569

PI Sta. 310+27.4 This Survey
= PI Sta. 310+25.39 As-built Plans Project No. P-569

PI Sta. 336+75.5 This Survey
= PI Sta. 336+71.87 As-built Plans Project No. P-569

PI Sta. 343+76.9 This Survey
= PI Sta. 343+73.27 As-built Plans Project No. P-569

PI Sta. 351+50.8 This Survey
= PI Sta. 351+45.19As-built Plans Project No. P-569

PI Sta. 365+11.5 This Survey
= PI Sta. 365+06.91 As-built Plans Project No. P-569

PI Sta. 391+06.4 This Survey
= PI Sta. 391+01.81 As-built Plans Project No. P-569

PI Sta. 417+43.4 This Survey
= PI Sta. 417+36.67 As-built Plans Project No. P-569

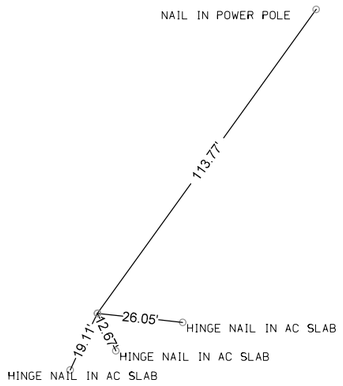
PI Sta. 438+94.7 This Survey
= PI Sta. 438+87.96 As-built Plans Project No. P-569

PI Sta. 451+26.0 This Survey
= PI Sta. 451+20.20 As-built Plans Project No. P-569

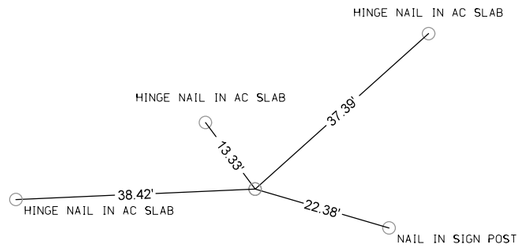
VERTICAL CONTROL

Point	North	East	Elevation	Station	Offset	Description
659	494848.786	1597094.294	932.179	246+17.65	45.909	SET\RR SPK E SIDE 1ST POWER POLE
660	494140.746	1598099.141	950.571	258+46.84	34.474	SET\RR SPK E SIDE POWER POLE
661	493843.985	1598916.852	962.955	267+16.92	26.062	SET\RR SPK N SIDE POWER POLE
662	493790.182	1599914.401	969.535	277+15.27	62.083	SET\RR SPK N SIDE POWER POLE
663	493809.495	1600544.970	971.893	283+45.39	31.540	SET\RR SPK N SIDE POWER POLE
664	493801.002	1601735.334	967.621	295+35.44	31.666	SET\RR SPK N SIDE POWER POLE
665	493793.570	1602616.804	980.958	304+16.94	33.113	SET\RR SPK N SIDE POWER POLE
666	493774.151	1603186.184	970.300	309+86.44	48.666	CONC MONUMENT
667	493761.377	1604526.042	975.070	323+26.48	49.186	CONC MONUMENT
668	493764.357	1605810.055	968.332	336+10.41	34.374	SET\RR SPK S SIDE POWER POLE
669	493952.361	1606901.909	974.072	347+14.74	48.102	SET\RR SPK W SIDE POWER POLE
670	494182.094	1608008.803	966.556	358+97.50	39.449	SET\RR SPK N SIDE POWER POLE
671	494163.385	1609230.603	974.025	371+19.20	53.216	SET\RR SPK S SIDE POWER POLE
672	494181.064	1610588.817	975.829	384+77.37	32.550	CUT X ON R.O.W. RAIL
673	494255.767	1611520.232	974.200	394+07.47	-51.566	CUT X NW BOLT 1ST FIRE HYDRANT
674	494225.721	1612685.096	976.154	405+72.72	-52.100	CUT X ON NW BOLT FIRE HYDRANT
675	494186.822	1613914.713	967.557	418+03.27	-44.989	CUT X ON NW BOLT FIRE HYDRANT
676	494060.801	1615399.101	965.440	432+89.77	53.111	CUT X ON NE BOLT FIRE HYDRANT
677	494169.002	1616259.880	969.058	441+49.41	-67.303	CUT X ON SW BOLT FIRE HYDRANT
678	494142.697	1617266.587	971.521	451+58.64	-31.568	CUT X ON S BOLT FIRE HYDRANT
679	494179.247	1618305.076	967.642	461+96.05	46.333	CUT X ON SE BOLT FIRE HYDRANT
680	494489.398	1619450.029	968.177	Off Chain	Off Chain	NE BOLT FIRE HYDRANT

CP STA OFF CHAIN
CP No. 10, Fd. Rebar
N=496175.910, E=1561565.170



CP STA OFF CHAIN
CP No. 12, Fd. Feno Monument
N=497203.940, E=1565343.760



CP STA OFF CHAIN
CP No. 13, Fd. Rebar
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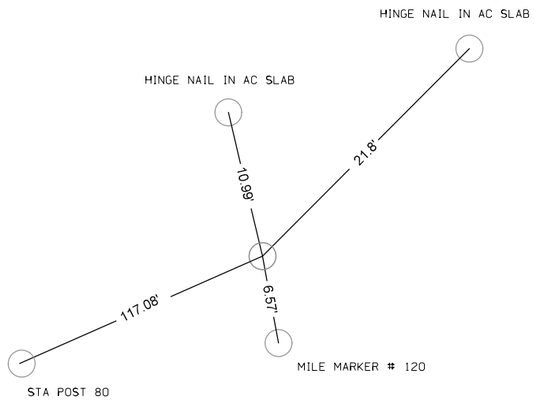
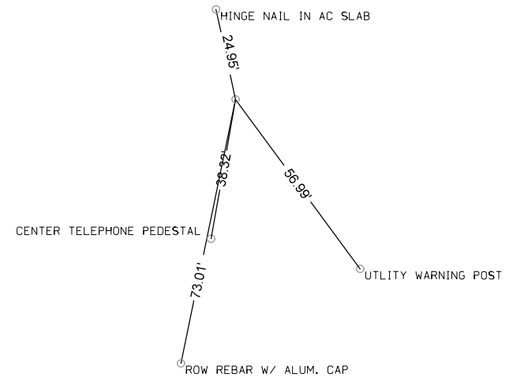
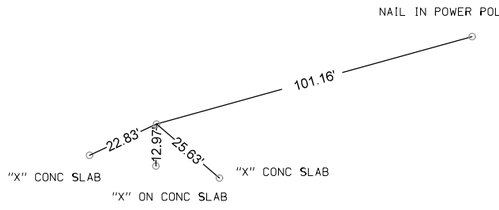


CP STA OFF CHAIN
CP No. 14, Fd. Rebar
N=498911.550, E=1571561.620,



CP STA 3+91.63, 180.71 Rt.
CP No. 15, Fd. Rebar
N=499571.430, E=1574333.310,



CP STA 23+47.79, 21.90 Lt.
CP No. 16, Fd. Rebar
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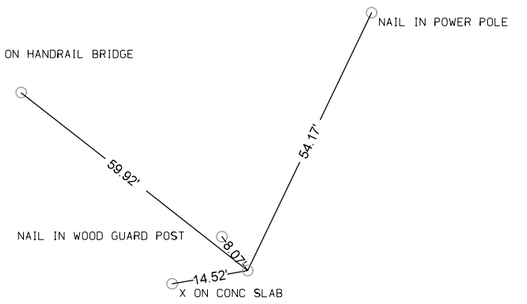

CP STA 36+16.39, 19.13 Rt.
CP No. 17, Fd. Rebar
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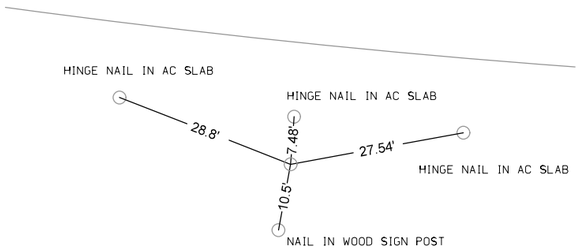

CP STA 68+34.41, 21.89 Rt.
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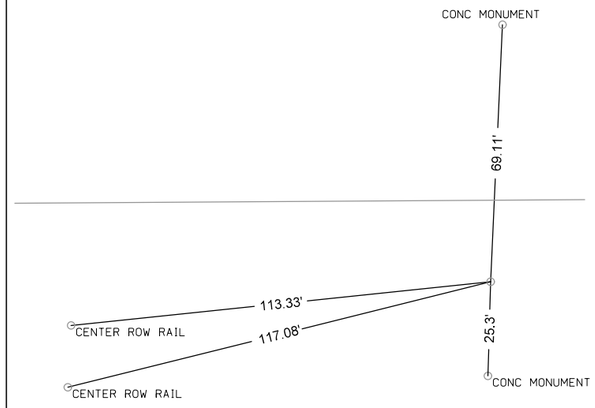

CP STA 97+35.35, 21.36 Lt.
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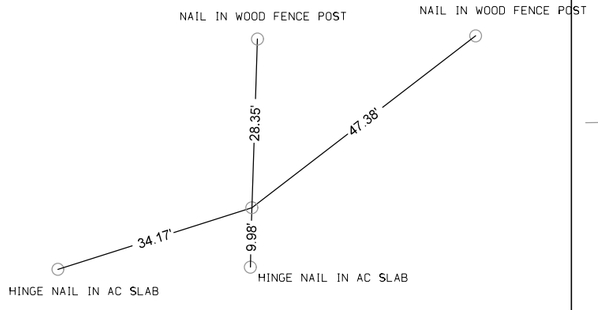

CP STA 139+97.21, 22.08 Lt.
CP No. 20, Fd. Rebar
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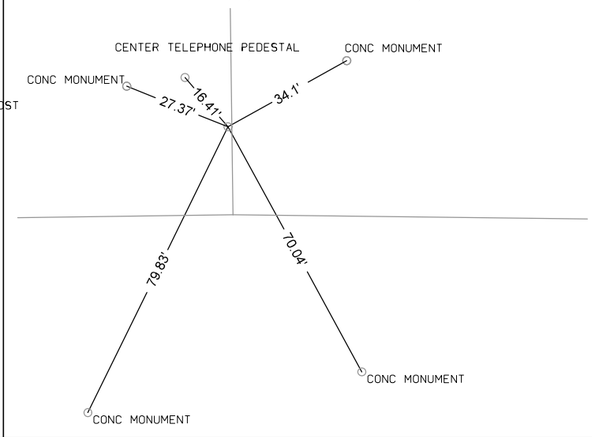

CP STA 183+66.82, 19.52 Rt.
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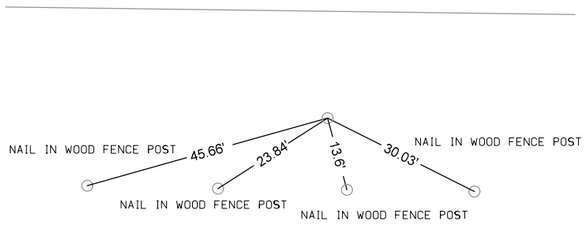

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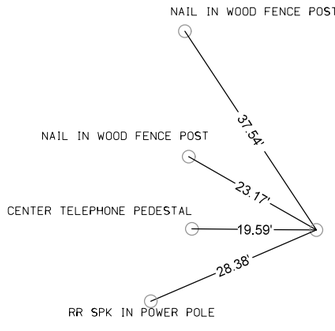

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER G.2

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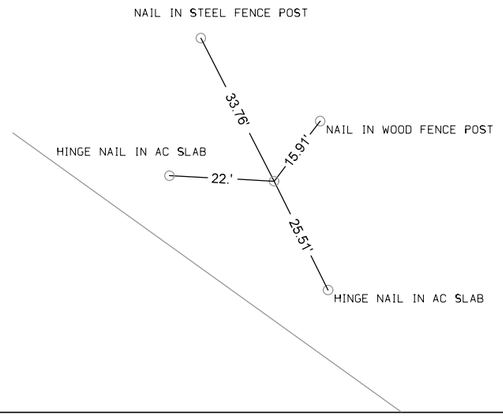

CP STA 212+27.42, 25.52 Lt.
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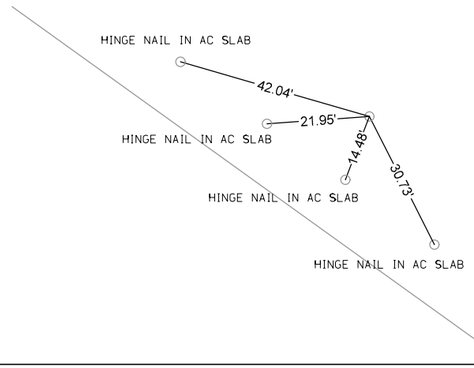

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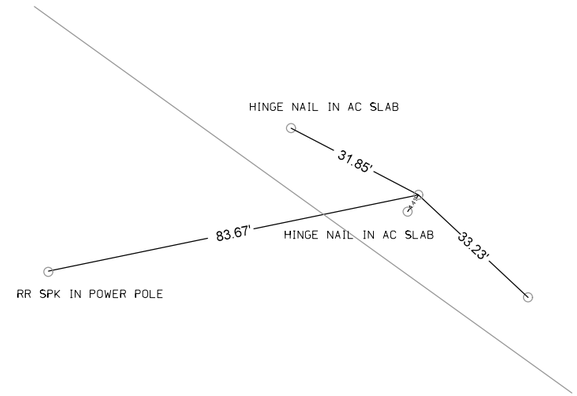

CP STA 257+09.95, 23.63 Rt.
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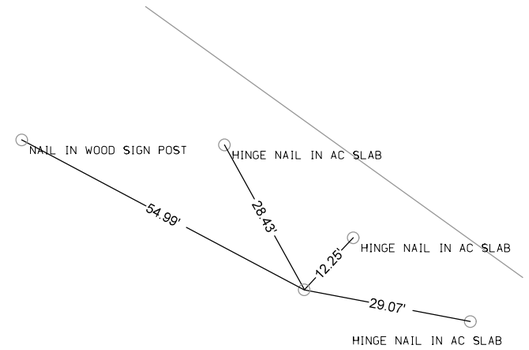

CP STA 263+35.7, 54.56 Rt.
CP No. 25, Fd. Rebar
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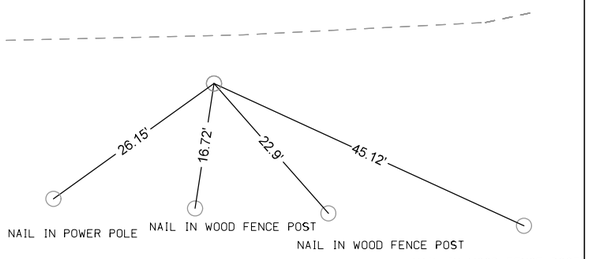

CP STA 275+00.55, 17.59 Rt.
CP No. 26, Fd. Rebar
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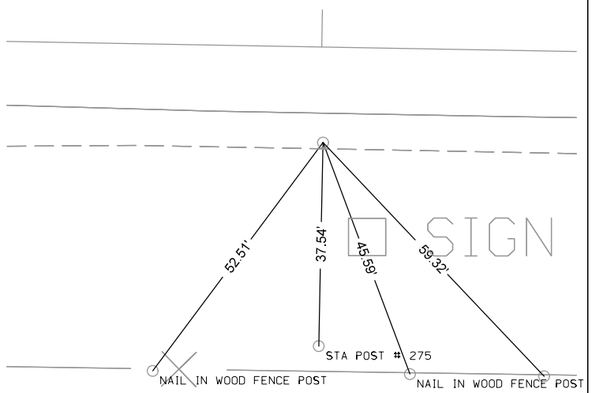

CP STA 283+29.75, 47.72 Lt.
CP No. 326, Fd. Iron Pin
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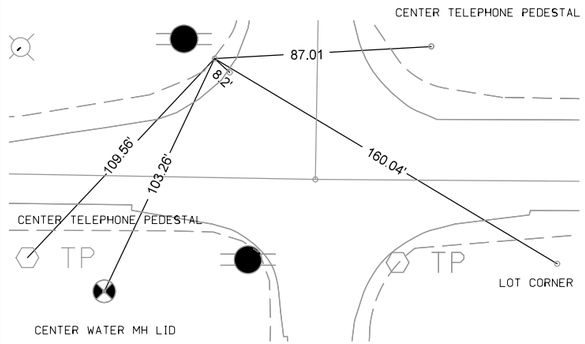

CP STA 293+73.67, 19.02 Rt.
CP No. 327, Fd. Iron Pin
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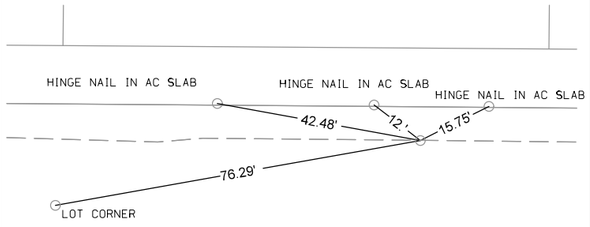

CP STA 302+85.88, 26.47 Lt.
CP No. 27, Fd. Rebar
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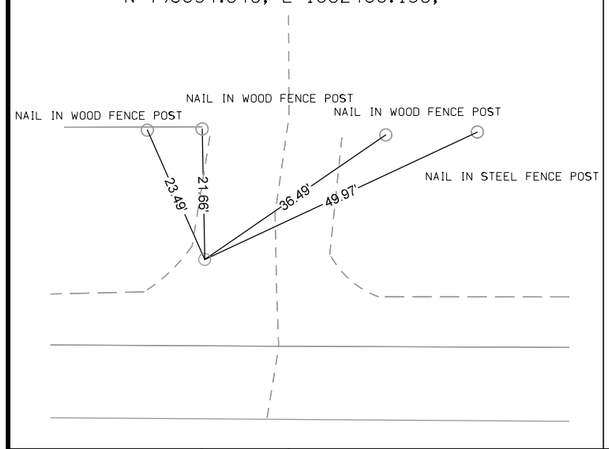
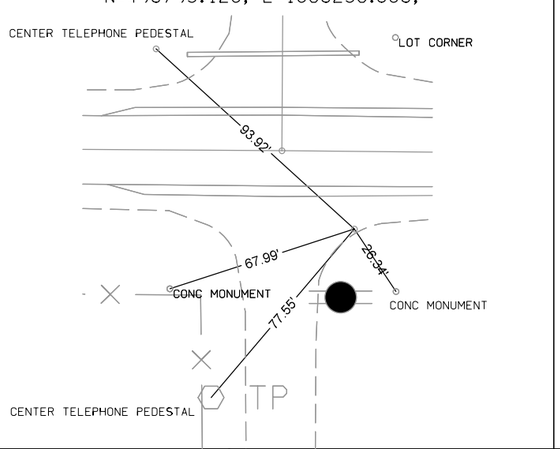
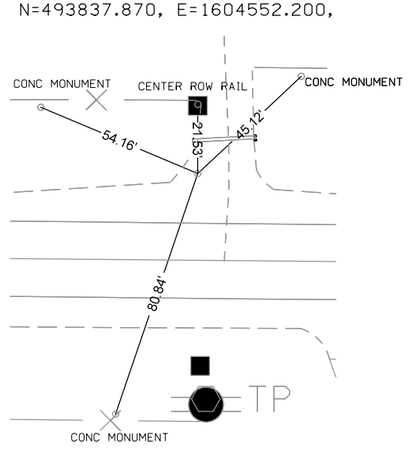


CP STA 310+51.04, 27.19 Rt.
CP No. 328, Fd. Iron Pin
N=493795.126, E=1603250.863,



CP STA 323+51.93, 27.54 Lt.
CP No. 28, Fd. Rebar
N=493837.870, E=1604552.200,



CP STA 331+33.48, 20.40 Lt.
CP No. 329, Fd. Iron Pin
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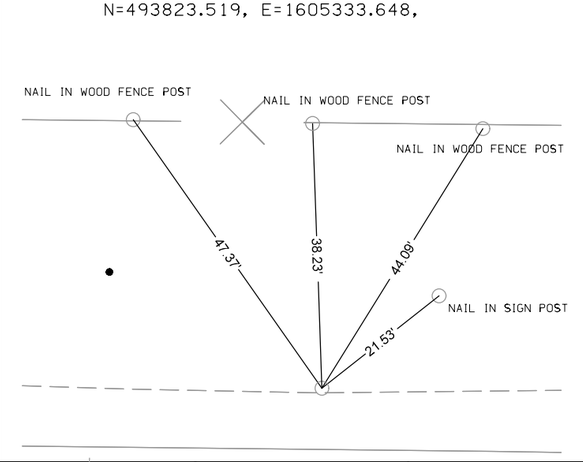

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER G.3

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CP STA 342+98.08, 21.90 Rt.
CP No. 29, Fd. Rebar
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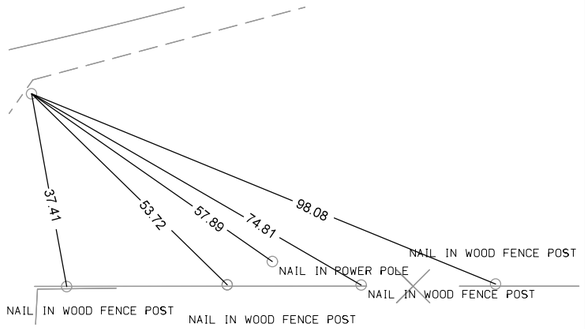

CP STA 350+95.08, 20.57 Lt.
CP No. 30, Fd. Rebar
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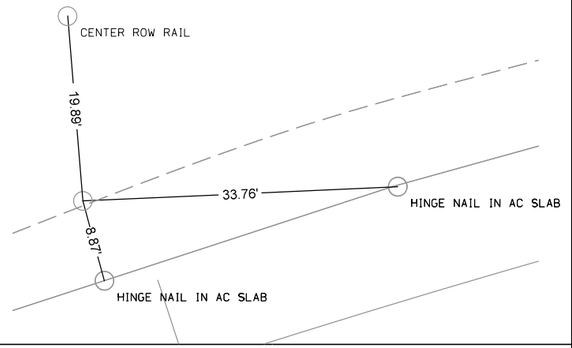

CP STA 359+87.72, 18.85 Lt.
CP No. 330, Fd. Iron Pin
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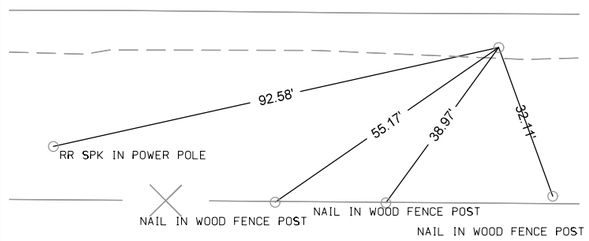

CP STA 368+07.83, 46.84 Lt.
CP No. 31, Fd. Rebar
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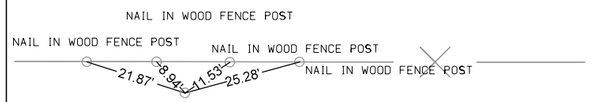
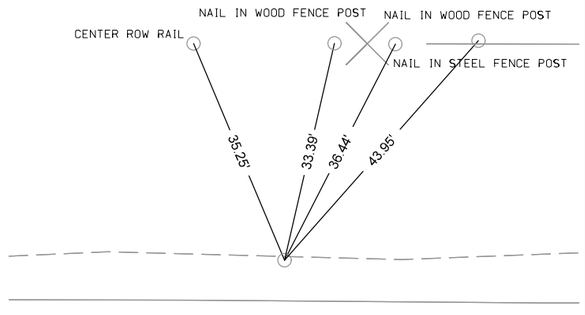
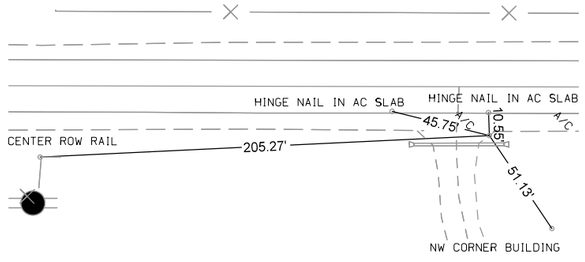


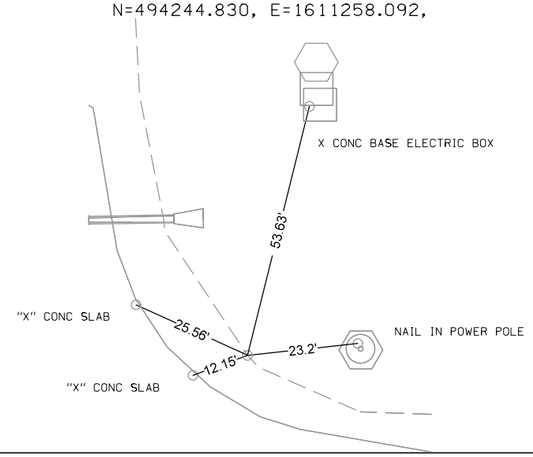
CP STA 377+81.08, 17.74 Lt.
CP No. 331, Fd. Iron Pin
N=494232.887, E=1609892.640,



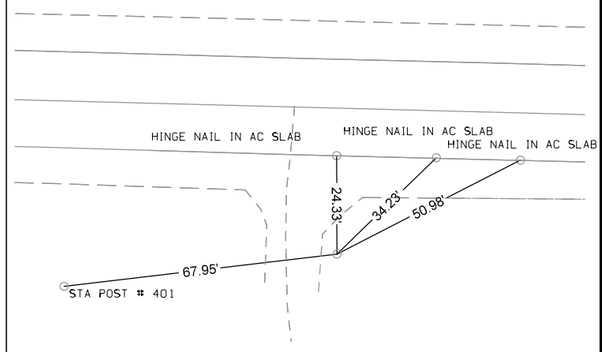
CP STA 386+82.38, 22.31 Rt.
CP No. 32, Fd. Rebar
N=494190.850, E=1610793.850,



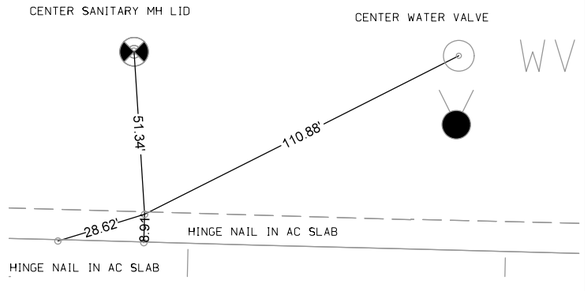
CP STA 391+45.71, 33.75 Lt.
CP No. 332, Fd. Iron Pin
N=494244.830, E=1611258.092,



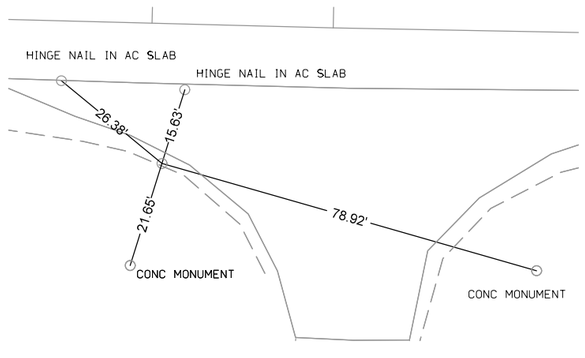
CP STA 401+75.95, 36.08 Rt.
CP No. 33, Fd. Rebar
N=494147.980, E=1612286.150,



CP STA 408+86.04, 20.70 Lt.
CP No. 333, Fd. Iron Pin
N=494186.113, E=1612997.486,



CP STA 417+02.74, 28.34 Rt.
CP No. 334, Fd. Iron Pin
N=494115.651, E=1613812.612,



CP STA 425+26.32, 19.97 Rt.
CP No. 335, Fd. Iron Pin
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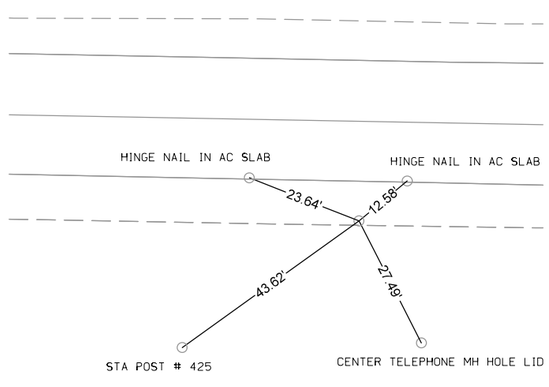
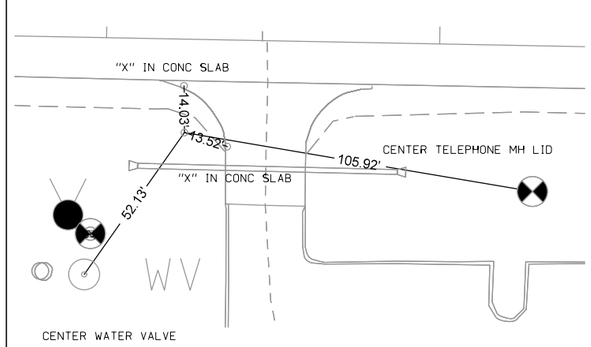


CP STA 433+23.93, 28.04 Rt.
CP No. 34, Fd. Rebar
N=494085.230, E=1615433.730,



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER G.4

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CP STA 441+70.77, 24.95, 24.95 Rt.
CP No. 336, Fd. Iron Pin
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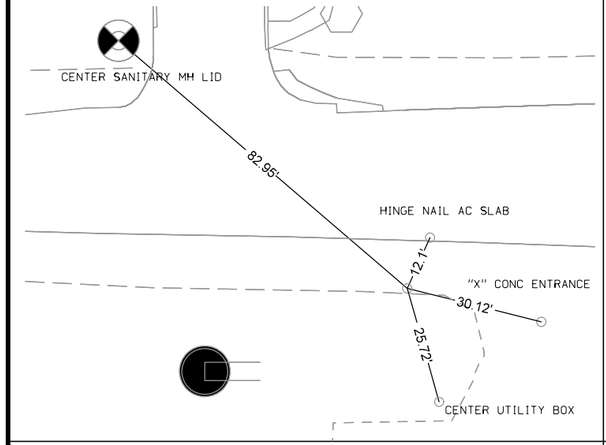
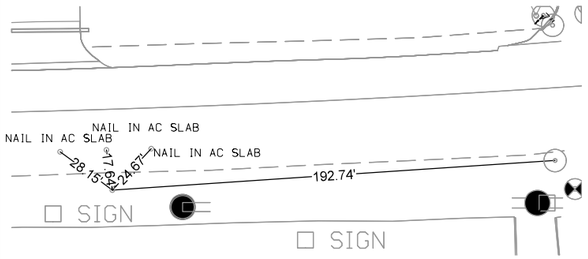
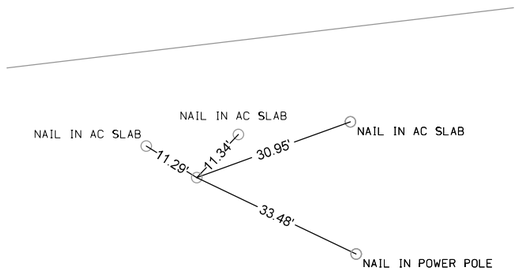


CP STA 449+71.11, 35.09 Rt.
CP No. 35, Fd. Feno Monument
N=494067.160, E=1617082.410,



CP STA 455+71.13, 24.86 Rt.
CP No. 337, Fd. Iron Pin
N=494126.788, E=1617681.998,



CP STA 462+35.77, 23.50 Lt.
CP No. 338, Fd. Iron Pin
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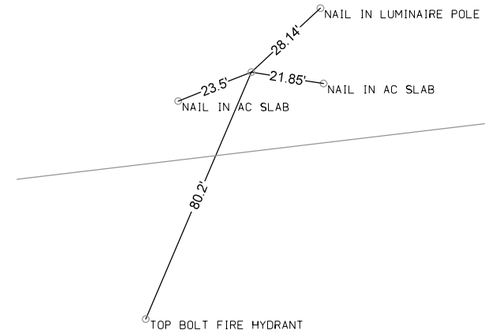
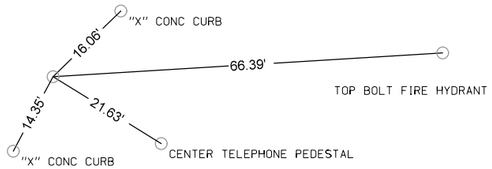


CP STA Off Chain
CP No. 339, Fd. Iron Pin



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER G.5

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ALIGNMENT COORDINATES

101-16
10-20-09

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
20001	ML092	255+00.00	494,371.15	1,597,837.61															
20006	ML092				258+45.63	494,169.44	1,598,118.28	260+05.63	494,078.36	1,598,249.80	264+10.92	493,839.55	1,598,577.33	267+85.11	493,838.66	1,598,982.67	269+45.11	493,834.41	1,599,142.60
20015	ML092				337+72.34	493,772.36	1,605,969.55	339+32.34	493,773.69	1,606,129.52	342+33.59	493,768.17	1,606,430.78	345+19.31	493,909.54	1,606,696.86	346+79.31	493,980.80	1,606,840.09
20022	ML092				347+85.31	494,029.67	1,606,934.15	349+45.31	494,100.94	1,607,077.39	352+55.89	494,246.61	1,607,351.75	355+49.82	494,237.44	1,607,662.25	357+09.82	494,236.94	1,607,822.23
20028	ML092							390+67.33	494,167.94	1,611,179.03	391+01.53	494,167.24	1,611,213.23	391+35.73	494,166.34	1,611,247.42			
20032	ML092							416+90.59	494,099.28	1,613,801.39	417+35.31	494,098.11	1,613,846.10	417+80.03	494,097.27	1,613,890.81			
20036	ML092							438+11.62	494,059.08	1,615,922.04	439+21.21	494,057.02	1,616,031.61	440+30.11	494,076.15	1,616,139.52			
20038	ML092							440+30.11	494,076.15	1,616,139.52	441+31.12	494,093.78	1,616,238.98	442+31.59	494,093.40	1,616,339.99			
20043	ML092							447+70.70	494,091.42	1,616,879.10	451+22.49	494,090.13	1,617,230.88	454+73.40	494,131.67	1,617,580.21			
20046	ML092	466+80.72	494,274.21	1,618,779.08															
31000	SRKENNEDY	1256+05.14	493,946.86	1,597,951.77															
31002	SRKENNEDY	1258+87.00	494,145.34	1,598,151.90															
30000	SR57S	1273+87.78	492,836.02	1,600,580.14															
30003	SR57S	1283+73.24	493,821.43	1,600,570.67															
30010	SR57N	1383+68.17	493,821.48	1,600,565.60															
30013	SR57N	1394+41.91	494,895.22	1,600,565.83															
40000	SR90TH	2303+28.16	493,097.25	1,603,227.88															
40002	SR90TH	2310+28.21	493,797.30	1,603,225.53															
40004	SR90TH	2317+28.21	494,497.30	1,603,223.17															
50000	SR63S	3384+70.68	493,534.41	1,611,217.98															
50001	SR63S	3391+03.42	494,167.15	1,611,215.11															
50010	SR63N	3391+03.95	494,167.14	1,611,215.64															
50011	SR63N	3398+03.35	494,866.40	1,611,201.59															
60011	SRYSTS	4412+74.33	493,632.11	1,613,854.33															
60012	SRYSTS	4413+22.77	493,680.54	1,613,853.53															
60013	SRYSTS	4413+72.56	493,730.32	1,613,852.79															
60015	SRYSTS	4417+40.32	494,098.08	1,613,851.11															
60000	SRYSTN	4417+33.40	494,098.23	1,613,844.19															
60001	SRYSTN	4424+09.38	494,774.21	1,613,843.99															

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER G.6

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ALIGNMENT COORDINATES

101-16
10-20-09

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
90000	ENT258	98+68.14	494,052.48	1,598,058.28															
90001		100+00.00	494,145.34	1,598,151.90															
90002								100+71.65	494,203.67	1,598,193.51	101+46.98	494,265.00	1,598,237.26	102+17.98	494,340.28	1,598,239.84			
90004		103+14.58	494,436.82	1,598,243.15															
90005	ENT259	100+00.00	494,381.81	1,597,968.42															
90005								101+20.00	494,358.92	1,598,086.21	101+76.66	494,348.11	1,598,141.83	102+30.43	494,309.73	1,598,183.52			
90007								104+30.43	494,174.26	1,598,330.65	104+62.64	494,152.44	1,598,354.35	104+94.30	494,139.17	1,598,383.70			
90009		105+70.41	494,107.81	1,598,453.04															
90014	ENT269	95+33.10	494,037.37	1,598,836.03															
90015								95+80.40	493,993.49	1,598,853.66	96+24.58	493,952.49	1,598,870.14	96+59.22	493,949.72	1,598,914.24			
90017		100+00.00	493,928.40	1,599,254.34															
90010	ENT270	97+80.00	493,613.42	1,599,251.48															
90011		100+00.00	493,833.41	1,599,253.48															
90011								101+06.87	493,940.27	1,599,254.45	101+71.34	494,004.74	1,599,255.04	102+31.60	494,056.73	1,599,293.16			
90013		102+59.60	494,079.31	1,599,309.72															
90025	ENT275	100+00.00	493,893.24	1,599,844.05															
90026		100+69.23	493,931.57	1,599,786.40															
90020	ENT276	100+00.00	493,828.04	1,599,843.46															
90021								100+70.21	493,898.25	1,599,844.10	100+74.35	493,902.39	1,599,844.13	100+78.48	493,906.52	1,599,843.89			
90023		101+40.15	493,968.08	1,599,840.20															
90030	ENT291	98+59.16	493,673.99	1,601,388.99															
90031								99+59.01	493,773.16	1,601,377.36	99+68.08	493,782.16	1,601,376.30	99+77.11	493,791.22	1,601,376.61			
90032		100+00.00	493,814.10	1,601,377.39															
90033		101+20.04	493,934.07	1,601,381.48															
90040	ENT297	97+18.87	493,529.41	1,601,891.83															
90041								97+48.87	493,559.41	1,601,892.10	97+70.37	493,580.92	1,601,892.30	97+91.72	493,601.89	1,601,897.06			
90042								98+11.72	493,621.39	1,601,901.49	98+34.91	493,644.01	1,601,906.62	98+57.89	493,667.20	1,601,906.45			
90043		100+00.00	493,809.30	1,601,905.37															
90044		101+20.00	493,929.31	1,601,905.46															
90047	ENT298	100+00.00	493,704.35	1,601,906.17															
90049		100+62.11	493,688.74	1,601,966.28															
90050	ENT305	98+80.00	493,681.83	1,602,727.25															
90051		100+00.00	493,801.82	1,602,728.34															
90066	ENT322	98+93.56	493,663.11	1,604,456.15															
90067		100+00.00	493,710.24	1,604,551.58															
90060	ENT323	96+84.92	493,484.75	1,604,605.53															
90061								97+64.92	493,564.74	1,604,606.26	97+98.08	493,597.90	1,604,606.56	98+28.46	493,623.33	1,604,585.28			
90063								98+48.46	493,638.66	1,604,572.44	98+81.62	493,664.09	1,604,551.16	99+12.00	493,697.25	1,604,551.46			
90064		100+00.00	493,785.24	1,604,552.26															
90065		102+00.00	493,985.23	1,604,554.08															
90070	ENT331	98+00.00	493,578.34	1,605,310.41															
90071		100+00.00	493,778.33	1,605,312.23															
90080	ENT341	94+00.70	493,209.61	1,606,415.14															
90081								95+27.63	493,336.37	1,606,421.62	95+73.99	493,382.68	1,606,423.99	96+19.31	493,426.75	1,606,409.60			
90083								99+40.16	493,731.74	1,606,310.00	99+49.84	493,740.94	1,606,306.99	99+59.47	493,750.50	1,606,305.50			
90084		100+00.00	493,790.55	1,606,299.26															
90085								100+61.11	493,850.92	1,606,289.84	100+71.04	493,860.74	1,606,288.31	100+80.93	493,870.67	1,606,288.41			
90087		101+10.51	493,900.25	1,606,288.72															
90090	ENT352	98+95.18	494,091.62	1,607,356.71															
90091		100+00.00	494,196.43	1,607,355.69															
90092								100+47.55	494,243.97	1,607,355.23	100+79.97	494,276.40	1,607,354.91	101+05.08	494,289.91	1,607,384.39			
90093		101+62.97	494,314.04	1,607,437.01															
90100	ENT359	96+73.79	494,137.73	1,607,780.69															
90101								98+71.48	494,133.71	1,607,978.33	99+21.46	494,132.70	1,608,028.31	99+50.00	494,182.68	1,608,029.34			
90102		100+00.00	494,232.66	1,608,030.37															
90103								100+90.00	494,322.64	1,608,032.22	101+80.00	494,412.62	1,608,034.07	102+31.37	494,410.77	1,608,124.05			
90105		103+43.37	494,408.47	1,608,236.02															

ALIGNMENT COORDINATES

101-16
10-20-09

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
90115	ENT364	96+63.00	494,026.91	1,608,308.20															
90116		100+00.00	494,019.98	1,608,645.13															
90110	ENT365	97+80.00	493,999.99	1,608,644.72															
90111		100+00.00	494,219.94	1,608,649.24															
90111								100+49.55	494,269.48	1,608,650.25	100+76.37	494,296.30	1,608,650.81	101+02.33	494,320.80	1,608,639.89			
90113		102+56.34	494,461.47	1,608,577.18															
90120	ENT367	98+79.96	494,079.19	1,609,657.56															
90121		100+00.00	494,199.23	1,609,657.02															
90122		101+00.04	494,299.27	1,609,656.08															
31201	ENT1257 (KENNEDY)	100+00.00	494,020.70	1,598,026.23															
31203								101+39.30	493,927.84	1,598,130.06	101+82.50	493,899.04	1,598,162.26	102+22.23	493,897.37	1,598,205.43			
31204		102+80.29	493,895.13	1,598,263.44															
30201	ENT1281 (R-53)	99+19.94	493,642.43	1,600,492.39															
30202		100+00.00	493,640.20	1,600,572.41															
30203		100+80.02	493,638.97	1,600,652.43															
40201	ENT2307 (90TH)	100+00.00	493,549.09	1,603,226.36															
40202		101+00.00	493,549.43	1,603,326.36															
40205	ENT2313 (90TH)	100+00.00	494,077.09	1,603,224.59															
40206		101+00.00	494,077.43	1,603,324.58															

SPIRAL OR CIRCULAR CURVE DATA

101-17
04-19-11

Name	Location	Δ_{scs}	Horizontal Alignment Data													Remarks
			Spiral Data								Curve Data					
			θs	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	Δ_c	T	L	R	E	
20006		35° 10′ 54.09″ LT	2° 59′ 45.09″	-160.00′	TS	53.35′	159.96′	2.79′	106.68′	53.35′	29° 11′ 23.92″ LT	398.39′	779.48′	1,530.00′	51.02′	
20015		27° 58′ 21.68″ LT	2° 59′ 45.09″	-160.00′	TS	53.35′	159.96′	2.79′	106.68′	53.35′	21° 58′ 51.50″ LT	297.14′	586.97′	1,530.00′	28.59′	
20022		28° 37′ 45.84″ RT	2° 59′ 45.09″	160.00′	TS	53.35′	159.96′	2.79′	106.68′	53.35′	22° 38′ 15.66″ RT	306.25′	604.51′	1,530.00′	30.35′	
20028											0° 19′ 35.74″ RT	34.20′	68.40′	12,000.00′	0.05′	
20032											0° 25′ 37.45″ LT	44.72′	89.45′	12,000.00′	0.08′	
20036											11° 07′ 40.08″ LT	109.59′	218.49′	1,125.00′	5.33′	
20038											10° 15′ 40.29″ RT	101.01′	201.48′	1,125.00′	4.53′	
20043											6° 59′ 27.10″ LT	351.79′	702.70′	5,759.23′	10.73′	

SUPERELEVATION DATA

See PV-300 Series

Road Identification	Circular Curve or Spiral Curve Name	Radius	Superelevation Data			Standard Road Plan	Section A-A	Section B-B	Section C-C	Section D-D	Section E-E	Section F-F	Case A	Case B	Case C	Case S	Case T	Case U	Remarks
			e	L	x														
		FT	%	FT	FT														
IA 92	20006	1530	6.0	160	53	PV-301	257+92.63	258+45.63	258+98.63	260+05.63			260+05.63			259+52.30	259+52.30		
							269+98.11	269+45.11	268+92.11	267+85.11			267+85.11			268+38.44	268+38.44		
IA 92	20015	1530	6.0	160	53	PV-301	337+19.34	337+72.34	338+25.34	339+32.34			339+32.34			338+79.01	338+79.01		
							347+32.31	346+79.31	346+26.31	345+19.31			345+19.31			345+72.64	345+72.64		
IA 92	20022	1530	6.0	160	53	PV-301	347+32.31	347+85.31	348+38.31	349+45.31			349+45.31			348+91.98	348+91.98		
							357+62.82	357+09.82	356+56.82	355+49.82			355+49.82			356+03.15	356+03.15		

108-23A
08-01-08

TRAFFIC CONTROL PLAN

IA 92 Rural Section - From just west of R-57 east to R-63.
IA 92 will be closed to through traffic between R-57 and R-63. Traffic will be detoured 6 miles north on R-57, 2 miles east on G-24, and 6 miles south on R-63. Local access will be provides during construction.

IA 92 Urban Section - From R-63 east to Kenwood Boulevard.
Two-way traffic will be maintained on IA 92 at all times during construction. All entrances will be maintained during construction.

R-57
Northbound and southbound traffic will be maintained during construction.

90th Avenue.
90th Avenue will be closed to through traffic at IA 92 during construction.

R-63
Northbound and southbound traffic will be maintained during construction.

110 Street
Northbound and southbound traffic will be maintained during construction.

South Spruce Street
Northbound and southbound traffic will be maintained during construction.

R Street
Northbound and southbound traffic will be maintained during construction.

South Kenwood Boulevard
Northbound and southbound traffic will be maintained during construction.

102-15
08-01-08

TABULATION OF SPECIAL EVENTS

Event	Location	Date
Event Name	Event Location	Event Date

108-26A
08-01-08

STAGING NOTES

2014 Construction Season

Stage 1
Traffic Control
IA 92 to be closed to through traffic from R-57 east to R-63. Local access only will be provided on existing IA 92 in this section.
Through traffic will be detoured north on R-57, east on G-24, and south on R-63.
Through traffic will be maintained on existing IA 92 between R-63 and S. Kenwood Boulevard.

Construction
Grade and pave EB/WB IA 92 from R-57 to R-63. Grade and pave the south 2 lanes of IA 92 from R-63 to S. Kenwood Boulevard.

Stage 2
Traffic Control
IA 92 traffic to be placed on the completed IA 92 pavement.

Construction
Grade and pave remaining north lane in urban section. Construct recreational trail along both the rural and urban section.

CROSS SECTION VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Lavender	(9)	Temporary Pavement Shading
Brown, Light	(236)	Proposed Grading Limits Shading
Brown, Med	(237)	Future Proposed Pavement Shading

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

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

PLAN VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

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

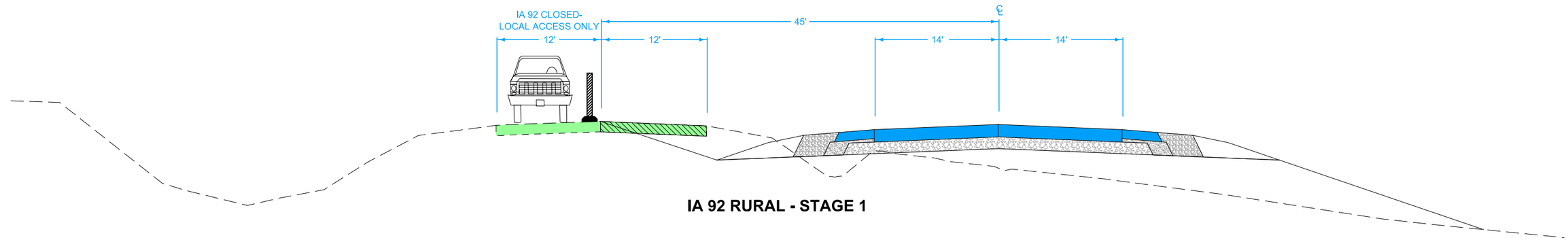
SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Lavender	(9)	Temporary Pavement Shading
Brown, Light	(236)	Proposed Grading Limits Shading
Pink, Dark	(13)	Proposed MSE or CIP Wall Shading
Red	(3)	Proposed Bridge Shading and Sign Trusses
Black w/Gray, Light Fill	(0,48)	Previously Constructed Structure

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

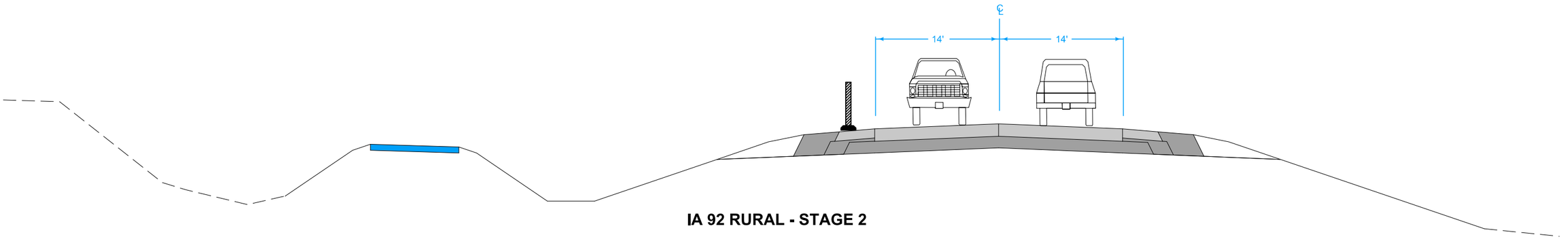
	42" Channelizer		Temporary Traffic Signal
	Drum		Traffic Sign
	Orange Plastic Safety Fence		Type III Barricade-Plan View
	Temporary Barrier Rail		Type A Warning Light
	Temporary Floodlighting		Pavement Removal

TRAFFIC CONTROL AND STAGING LEGEND AND SYMBOL INFORMATION SHEET

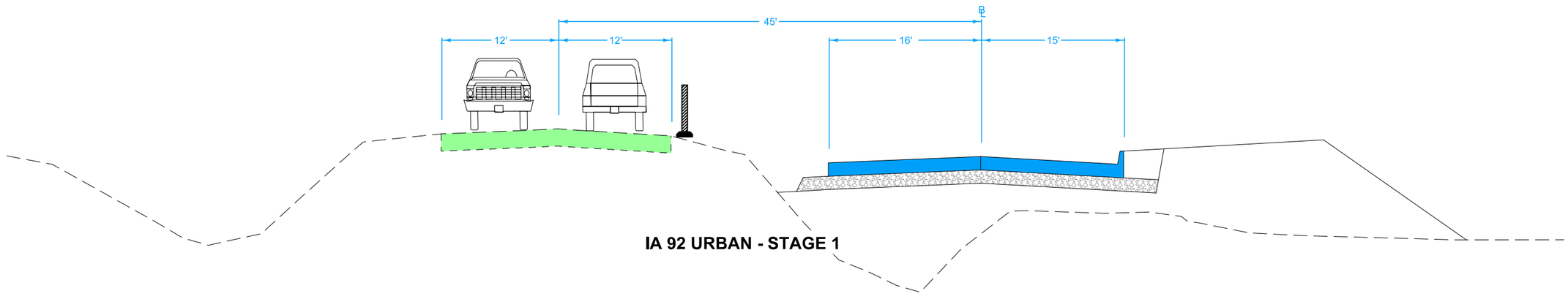
(COVERS SHEET SERIES J)



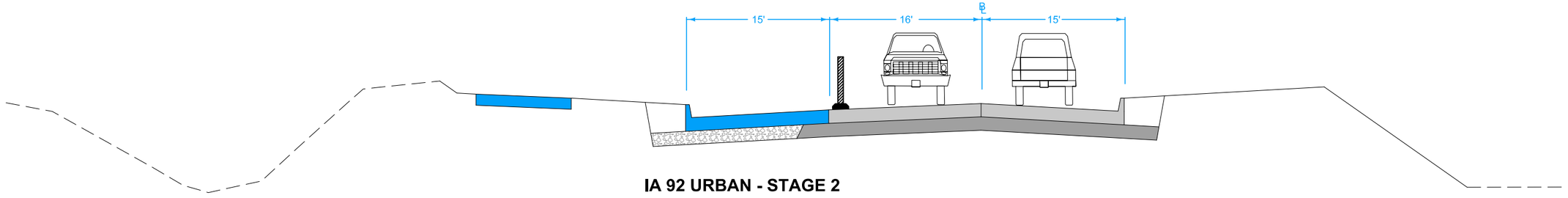
IA 92 RURAL - STAGE 1



IA 92 RURAL - STAGE 2



IA 92 URBAN - STAGE 1



IA 92 URBAN - STAGE 2

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8:11:01 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051J03.sht

LEGEND OF CROSS SECTION SHEETS (ROAD)

- Existing Ground Line
- Proposed Template
- Proposed Topsoil Placement
- Additional Topsoil Removal
- Subgrade Treatment
- Granular Shoulder
- Pavement
- Existing Pipe\RCB
- Proposed Pipe\RCB
- Proposed Dike
- All Elements Associated with Proposed Entrances

LEGEND OF CROSS SECTION SHEETS (SOILS)

- TS — Topsoil (Class 10)
- TS A — Topsoil (Type A Disposal)
- TS B — Topsoil (Type B Disposal)
- TS C — Topsoil (Type C Disposal)
- CL 10 — Class 10 Materials
- SEL LO — Select Loams And Clay-Loams
- SEL SA — Select Sand
- UNS A — Unsuitable Type A Disposal
- UNS B — Unsuitable Type B Disposal
- UNS C — Unsuitable Type C Disposal
- SHALE — Shale
- WASTE — Waste
- B&W LS — Broken and Weathered Rock
- ROCK — Solid Rock
- BLDRS — Boulders

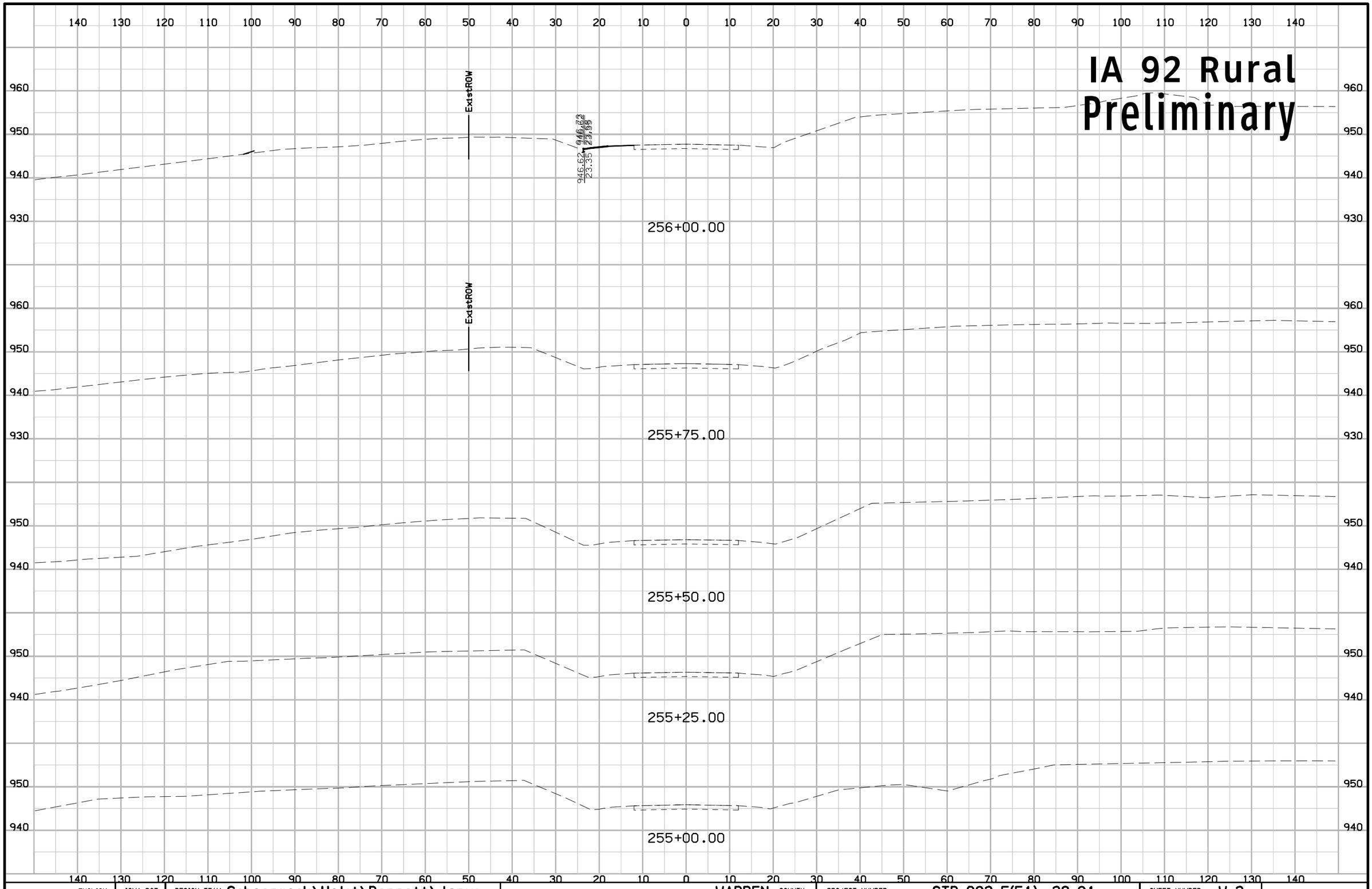
Note: All layer lines and descriptions identify layers above the line.

Note: Vertical or near vertical lines connecting soil layers at edges of cross sections are only for the purpose of calculating template quantities and do not depict soil stratification.

CROSS SECTION LEGEND AND SYMBOL INFORMATION SHEET

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

IA 92 Rural
Preliminary



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IA 92 Rural
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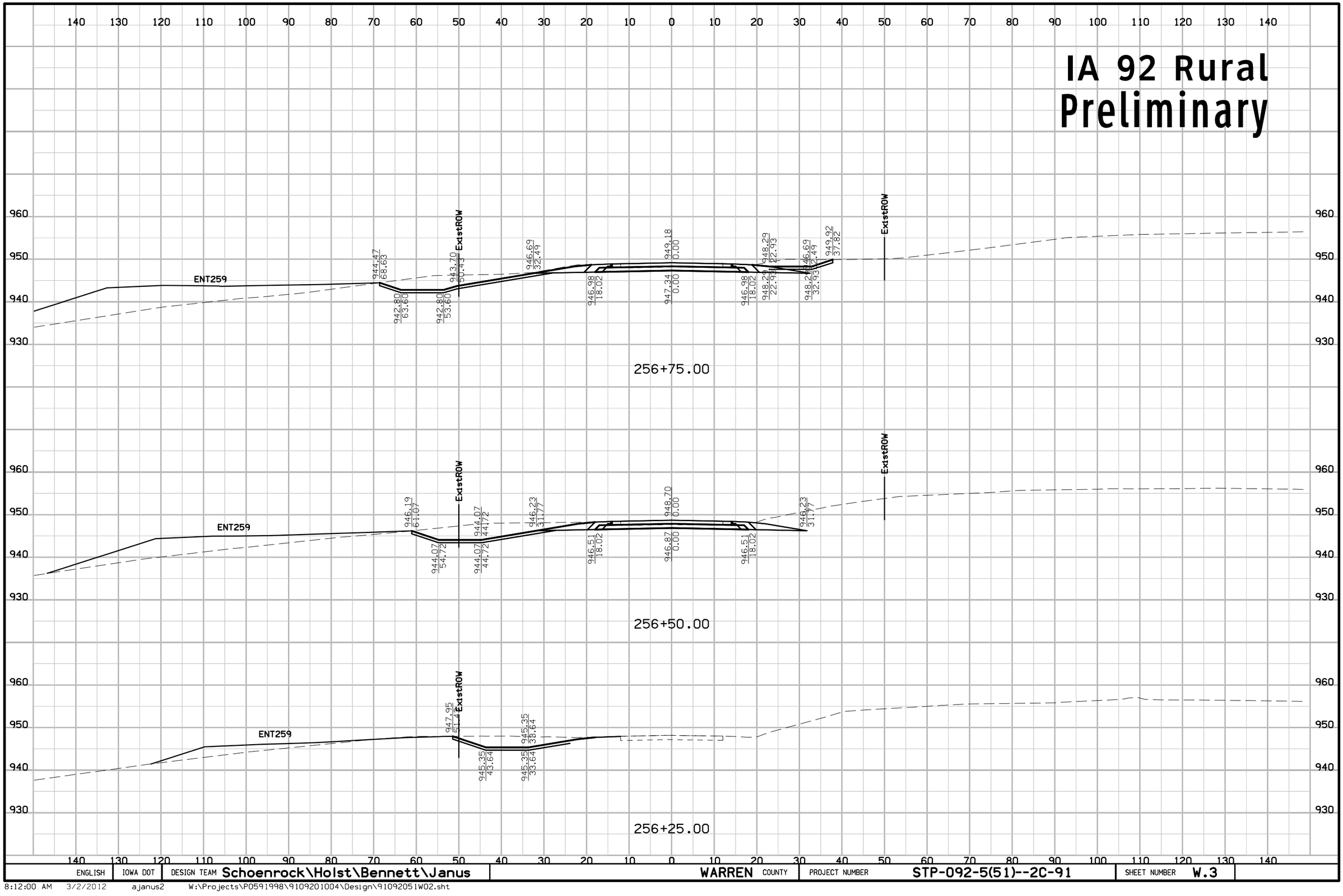

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IA 92 Rural
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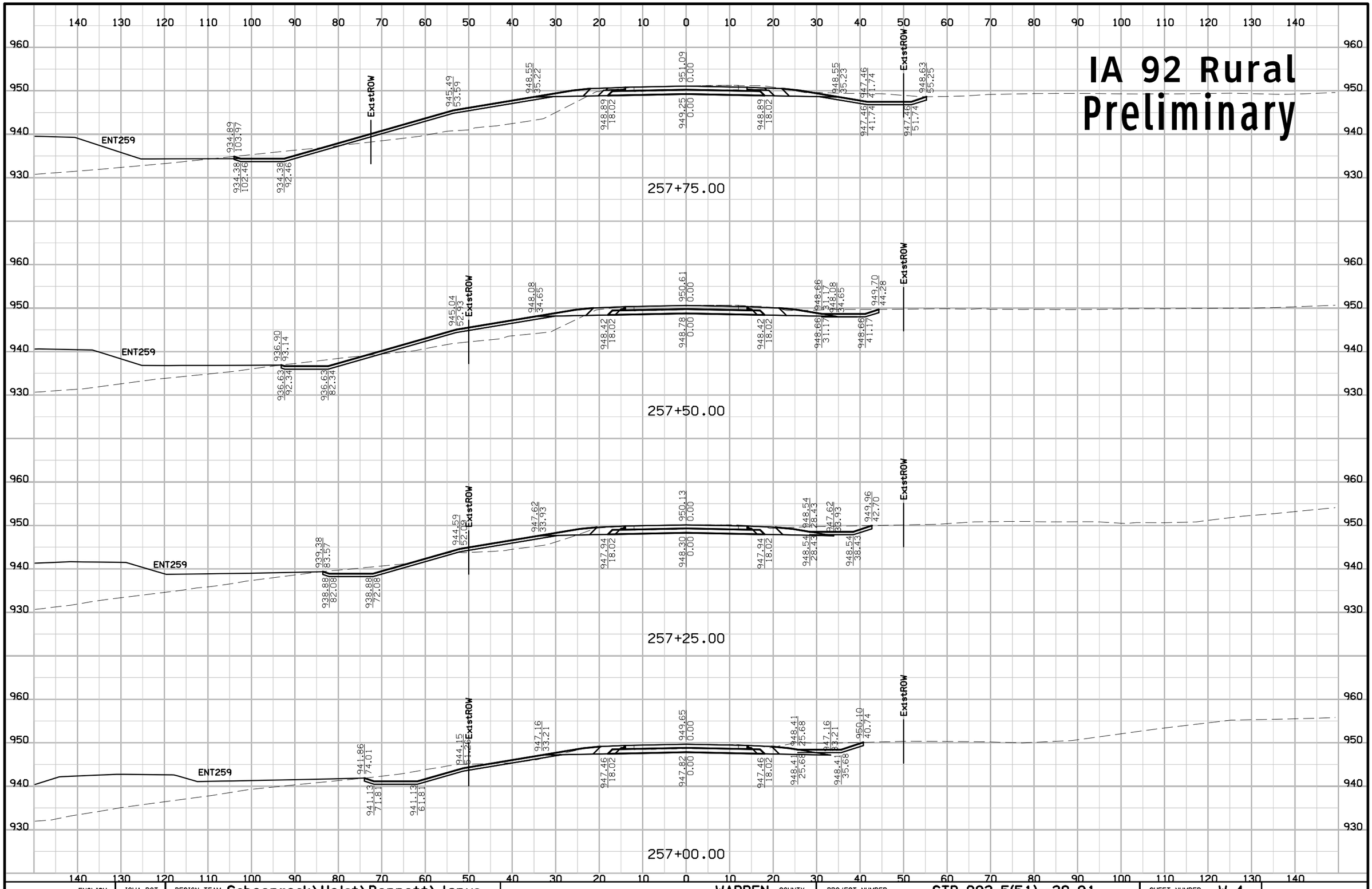

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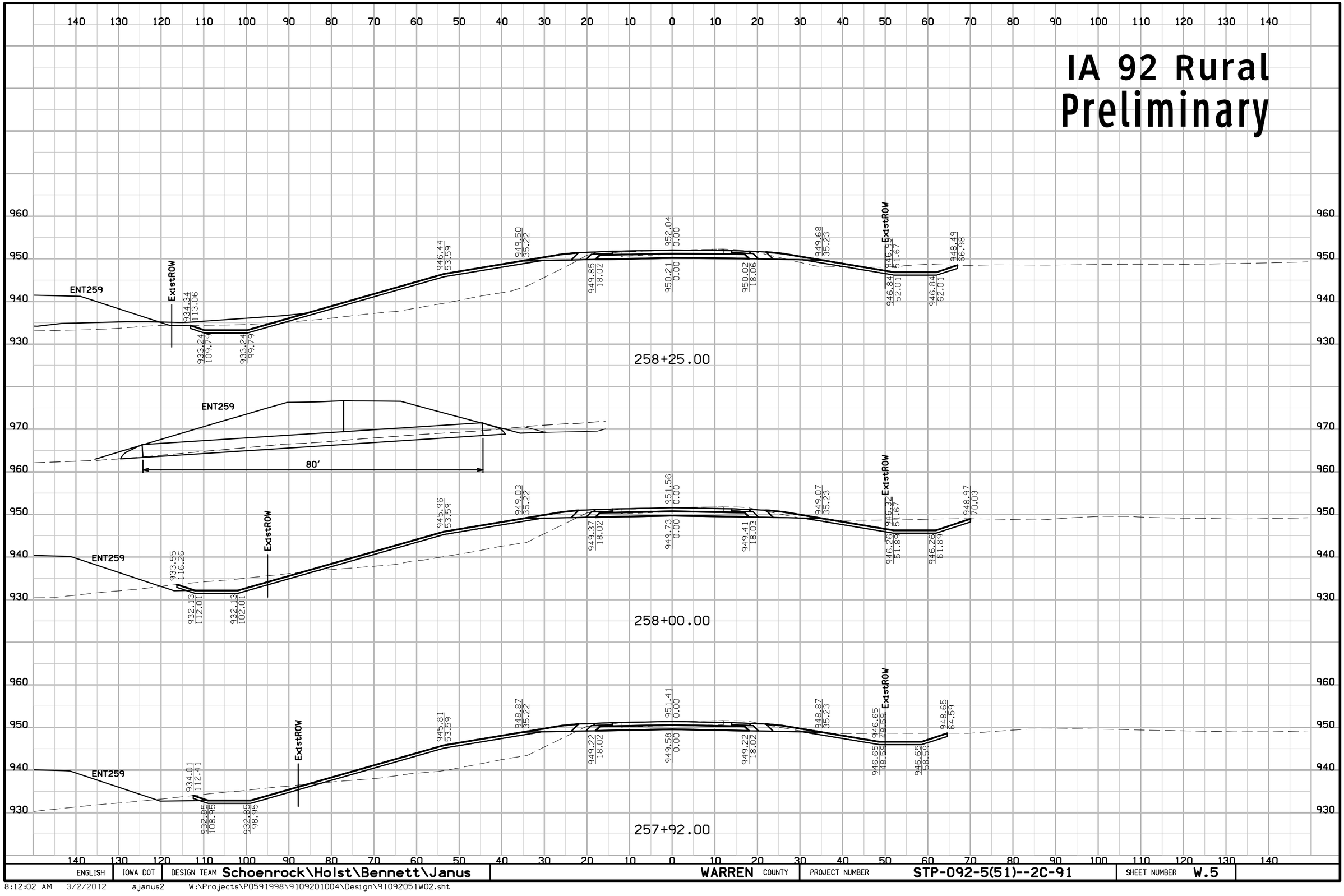

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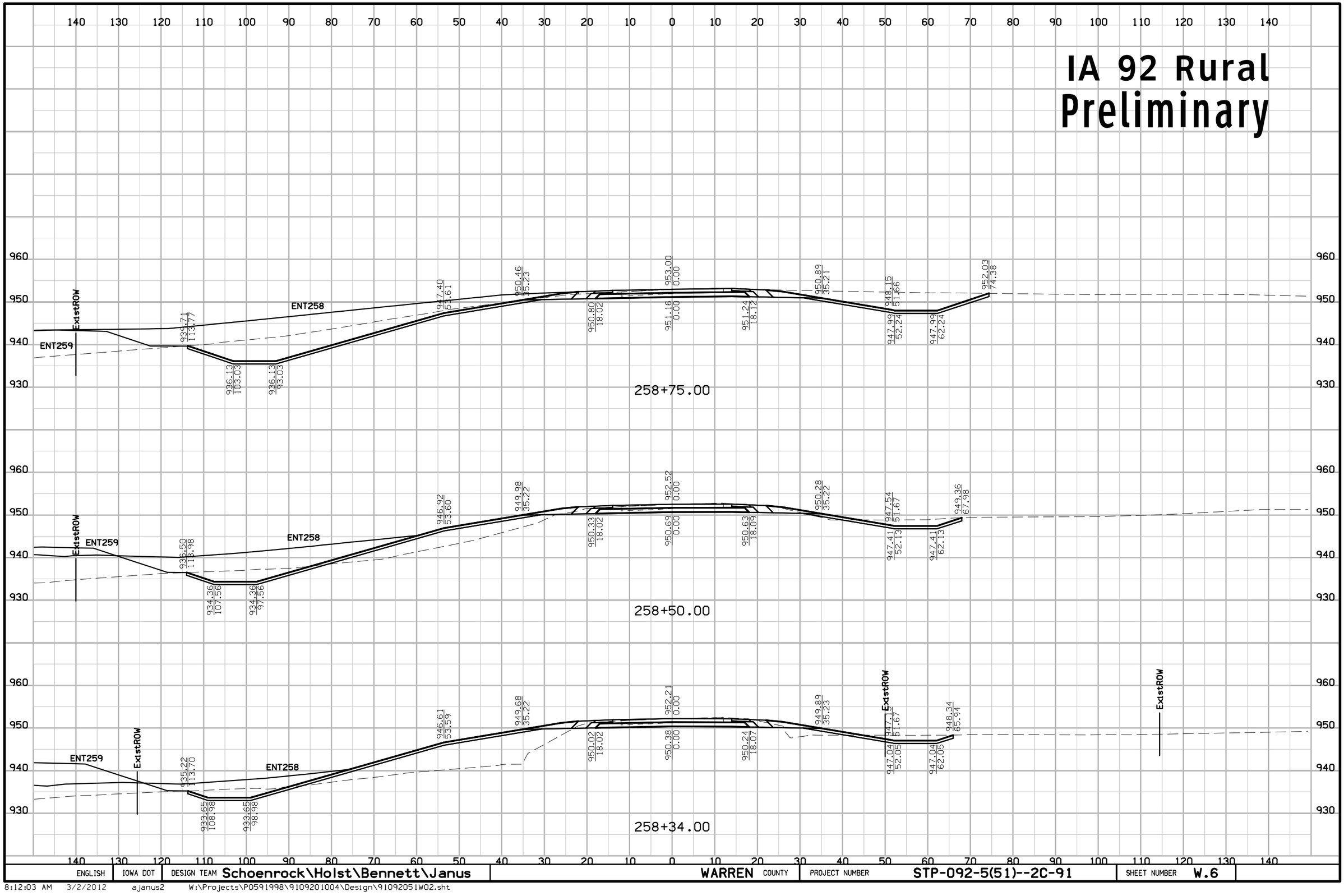

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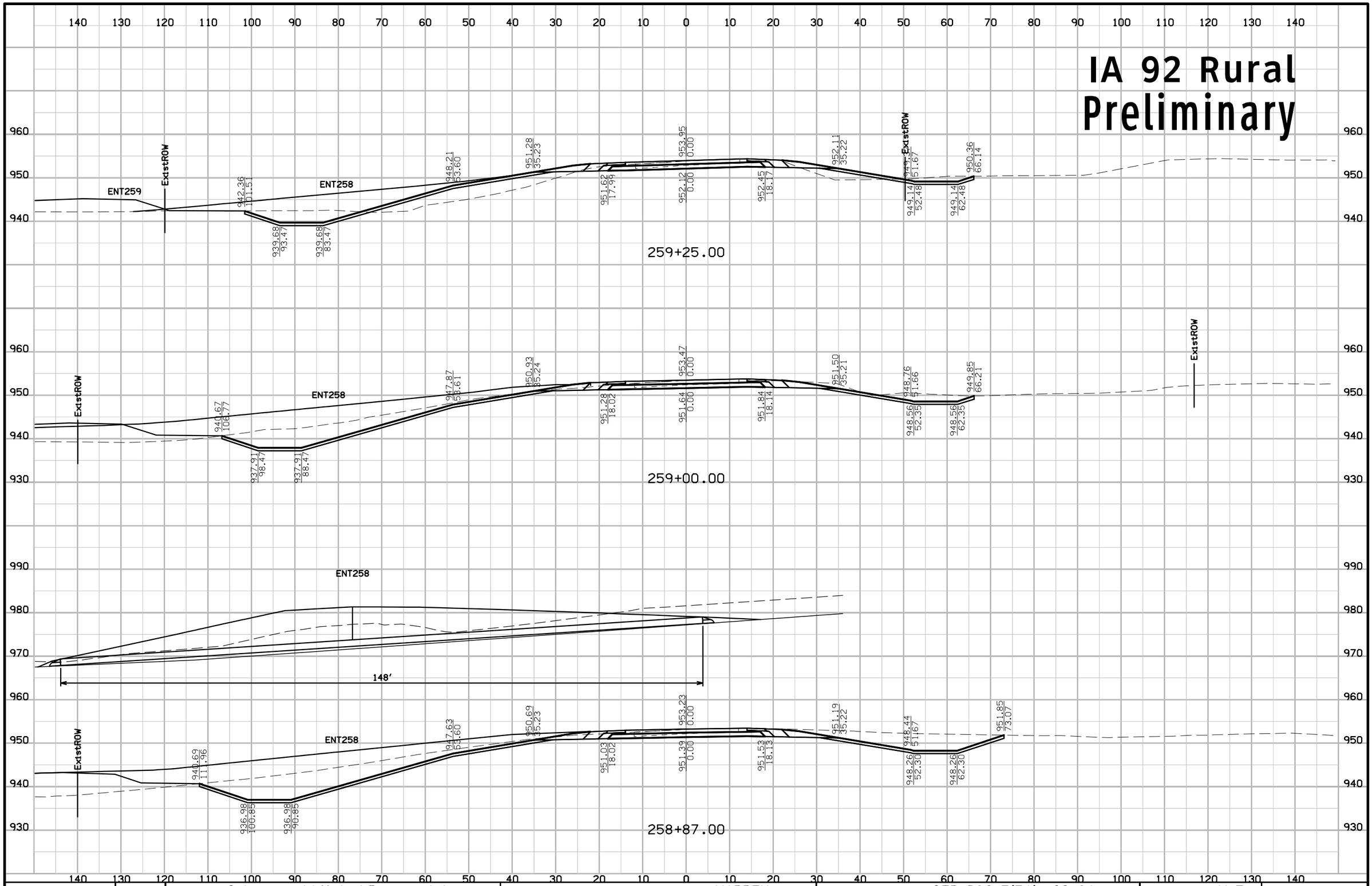

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IA 92 Rural
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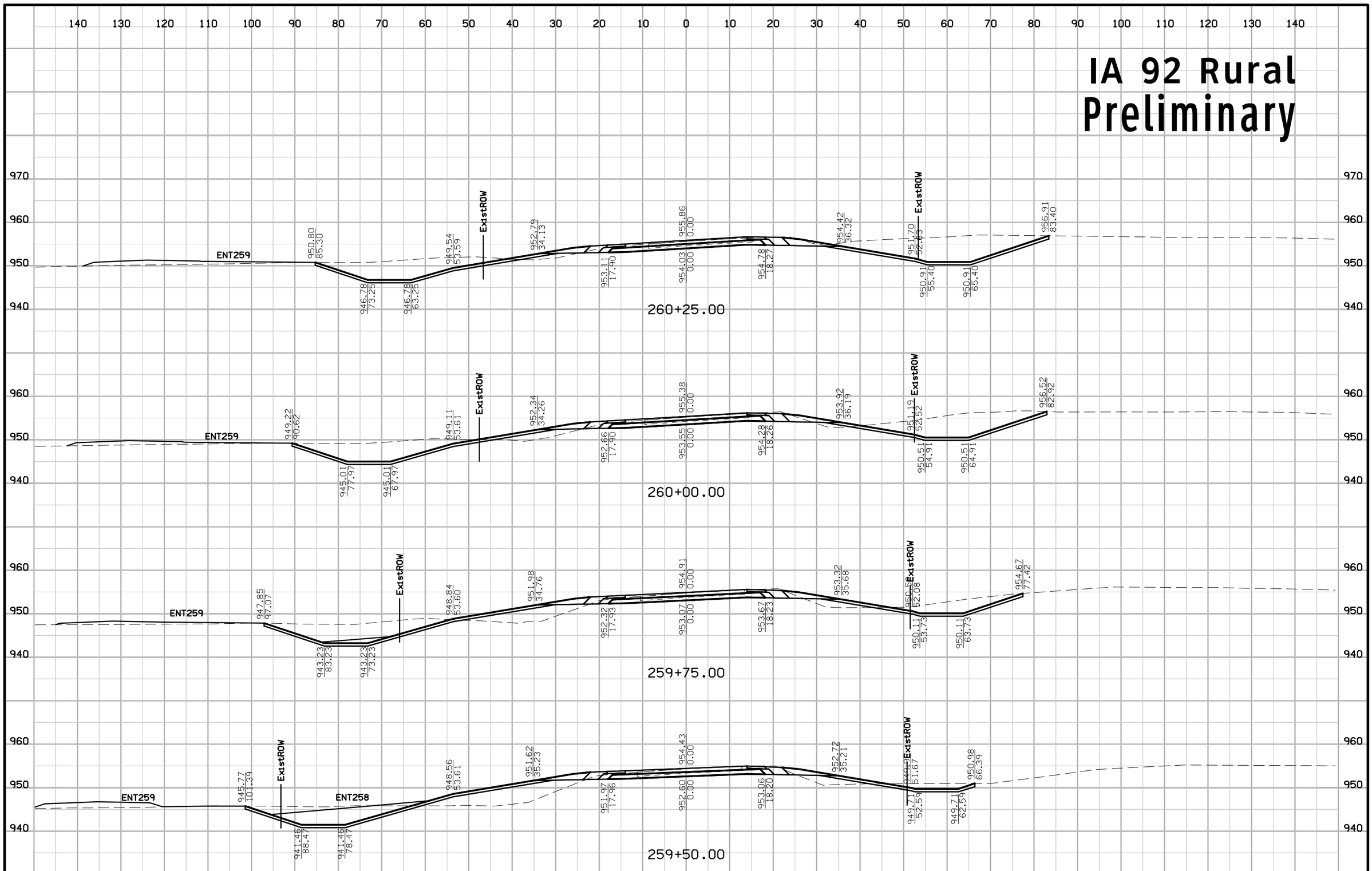

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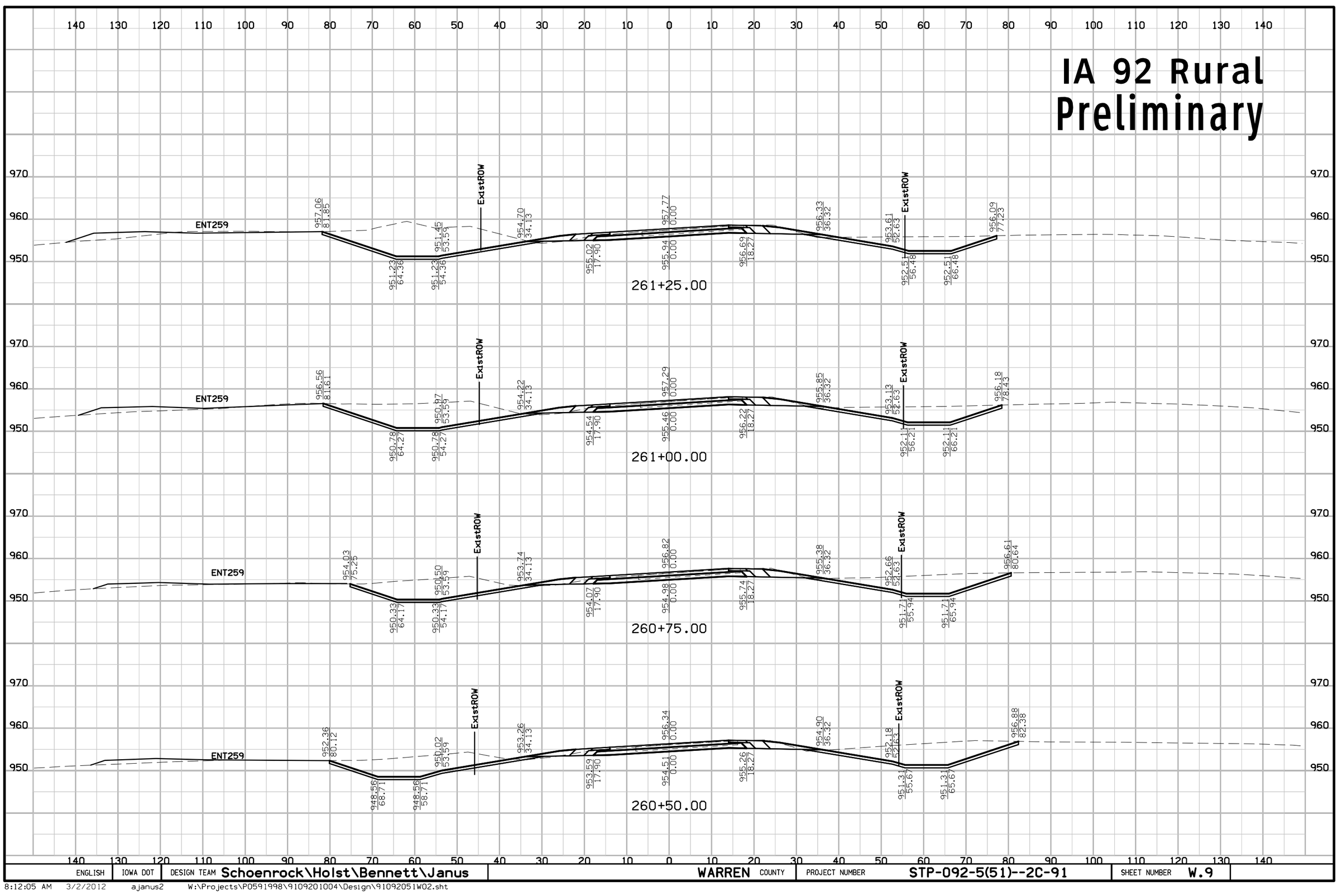

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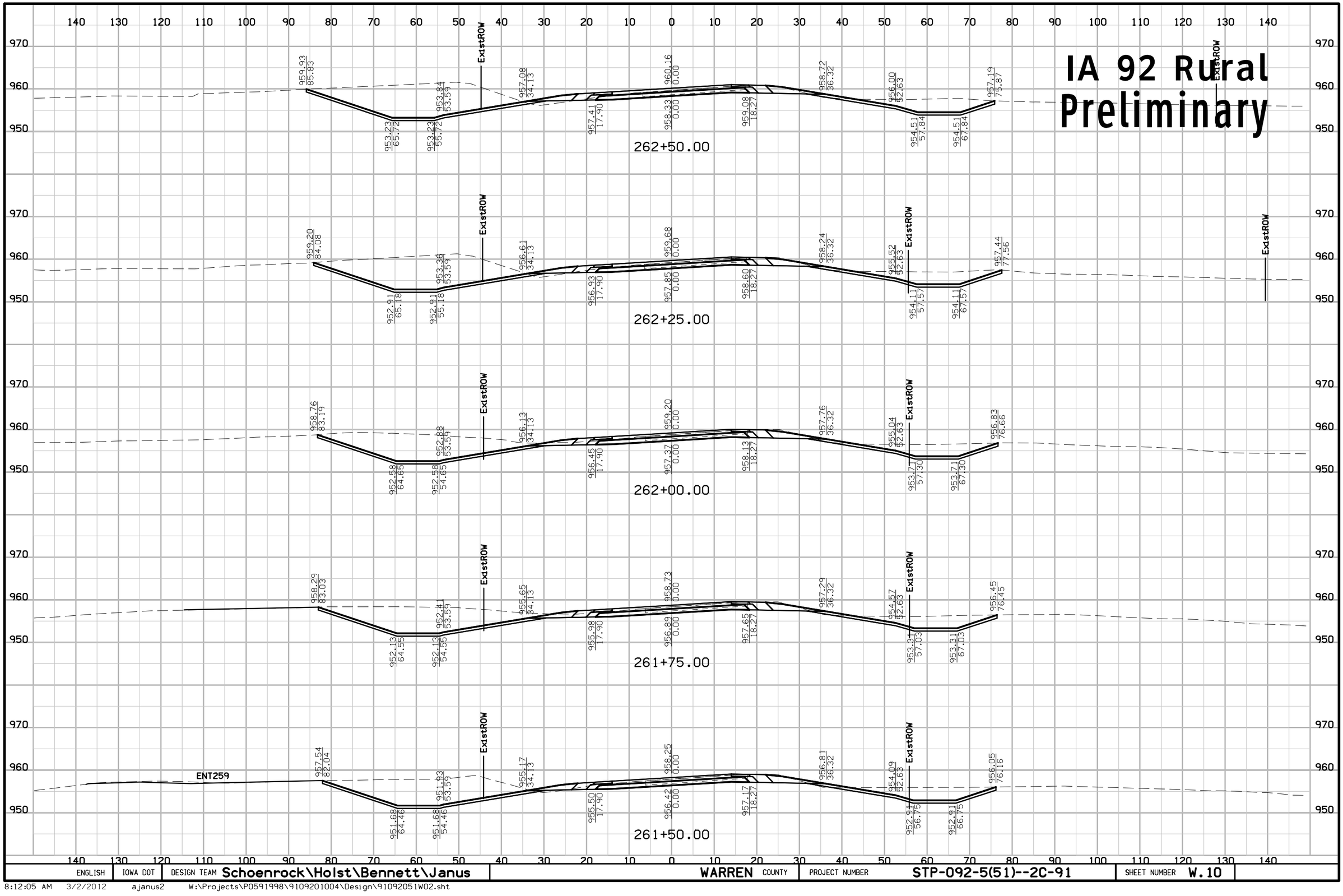

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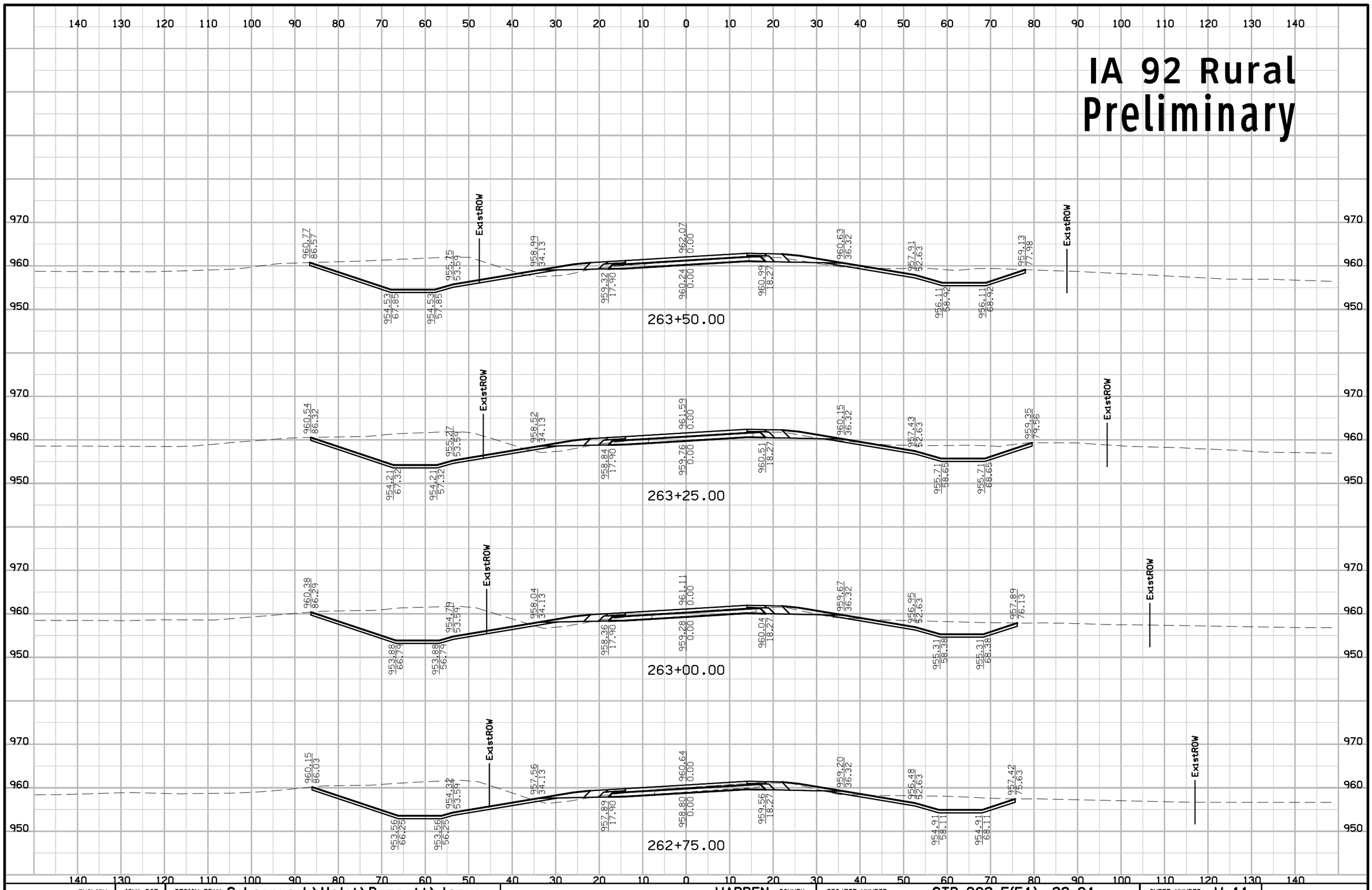

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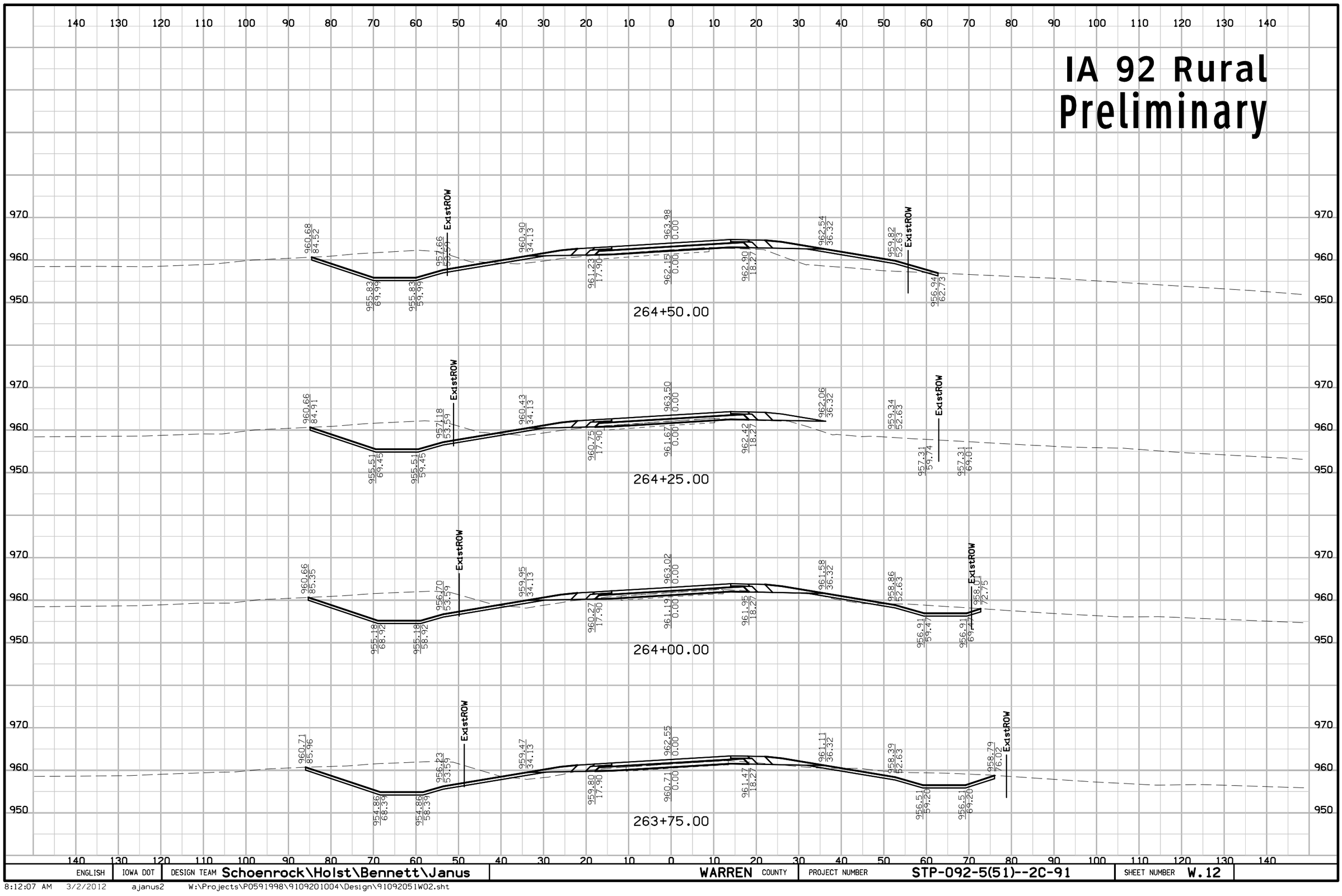

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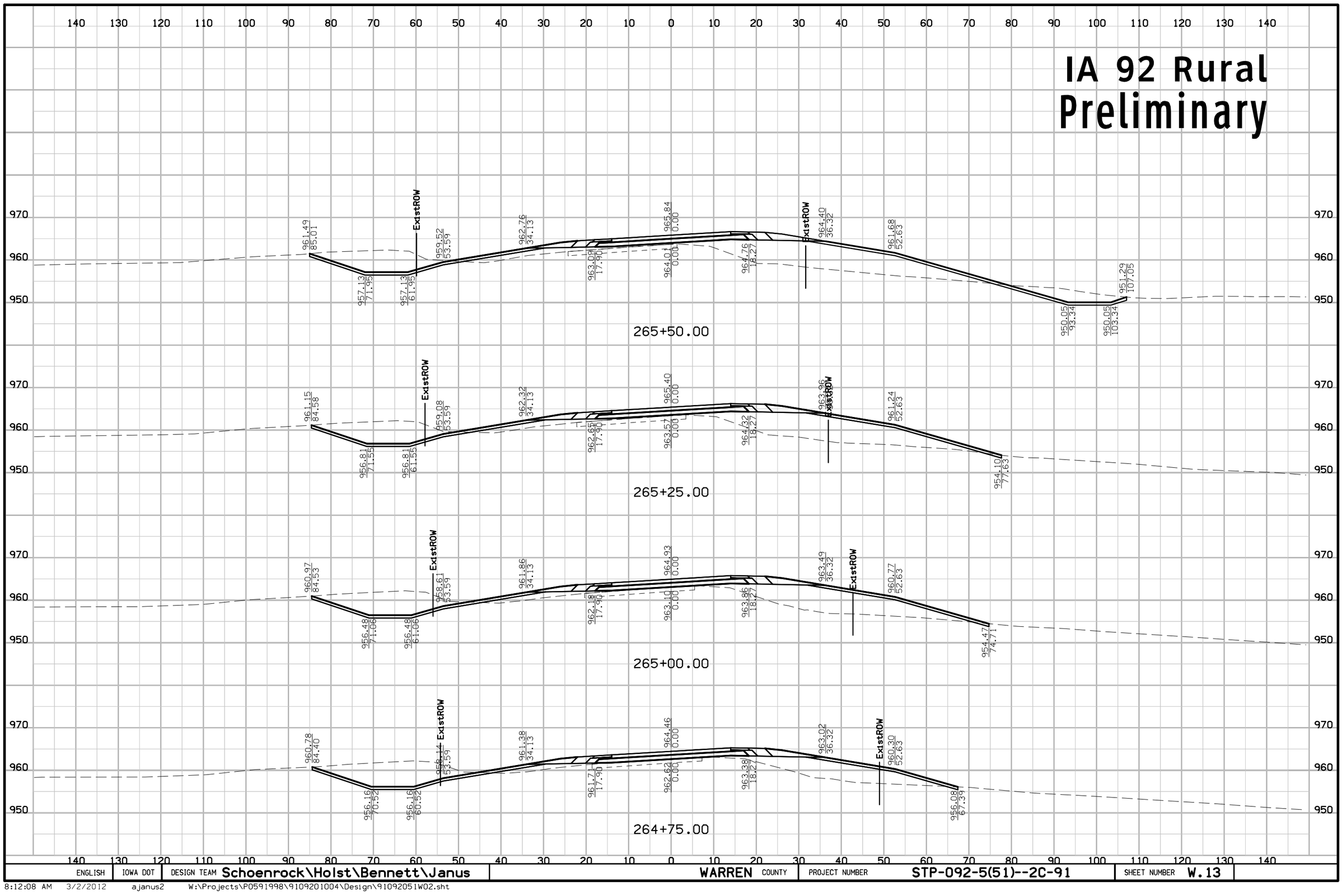
Preliminary



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IA 92 Rural
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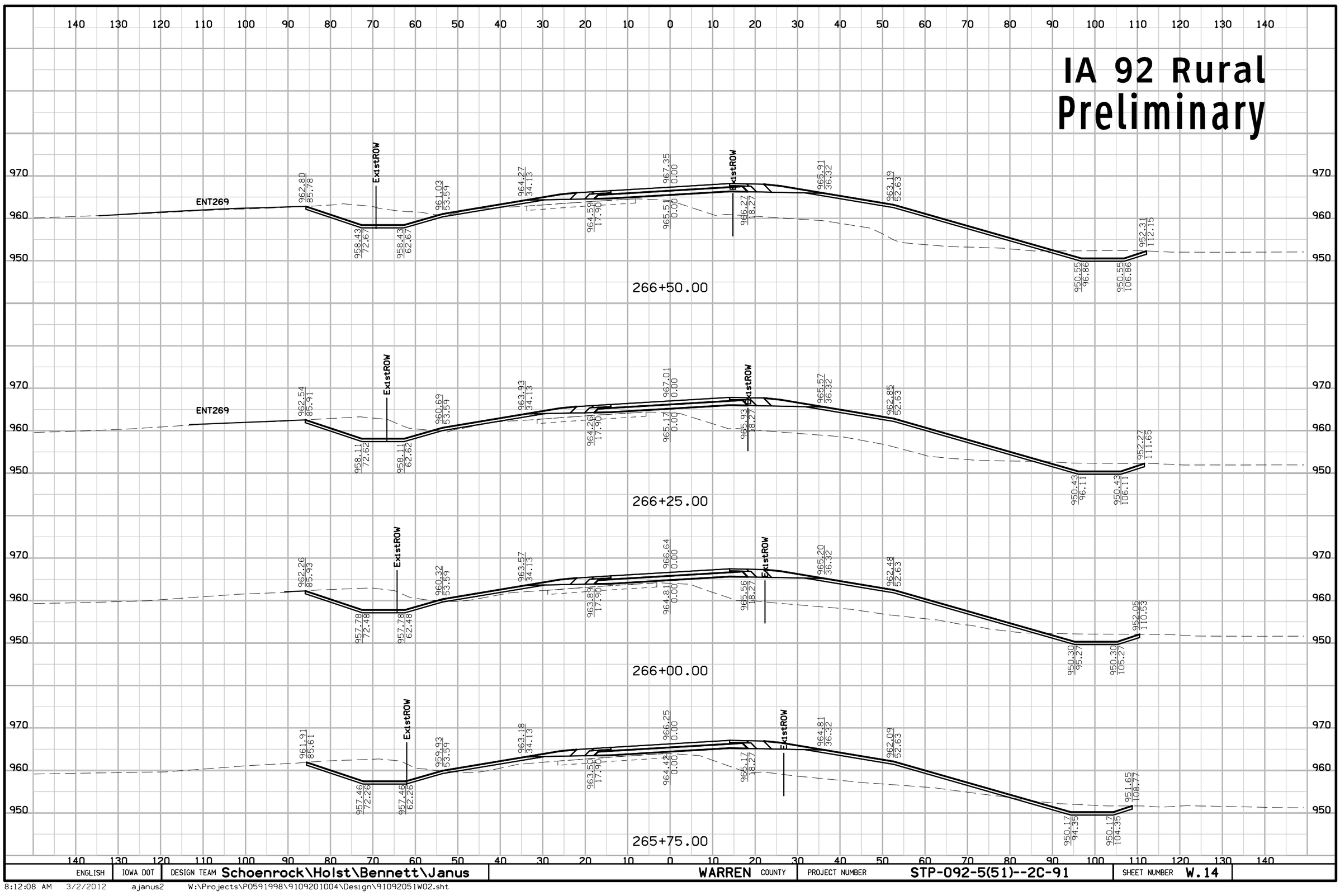

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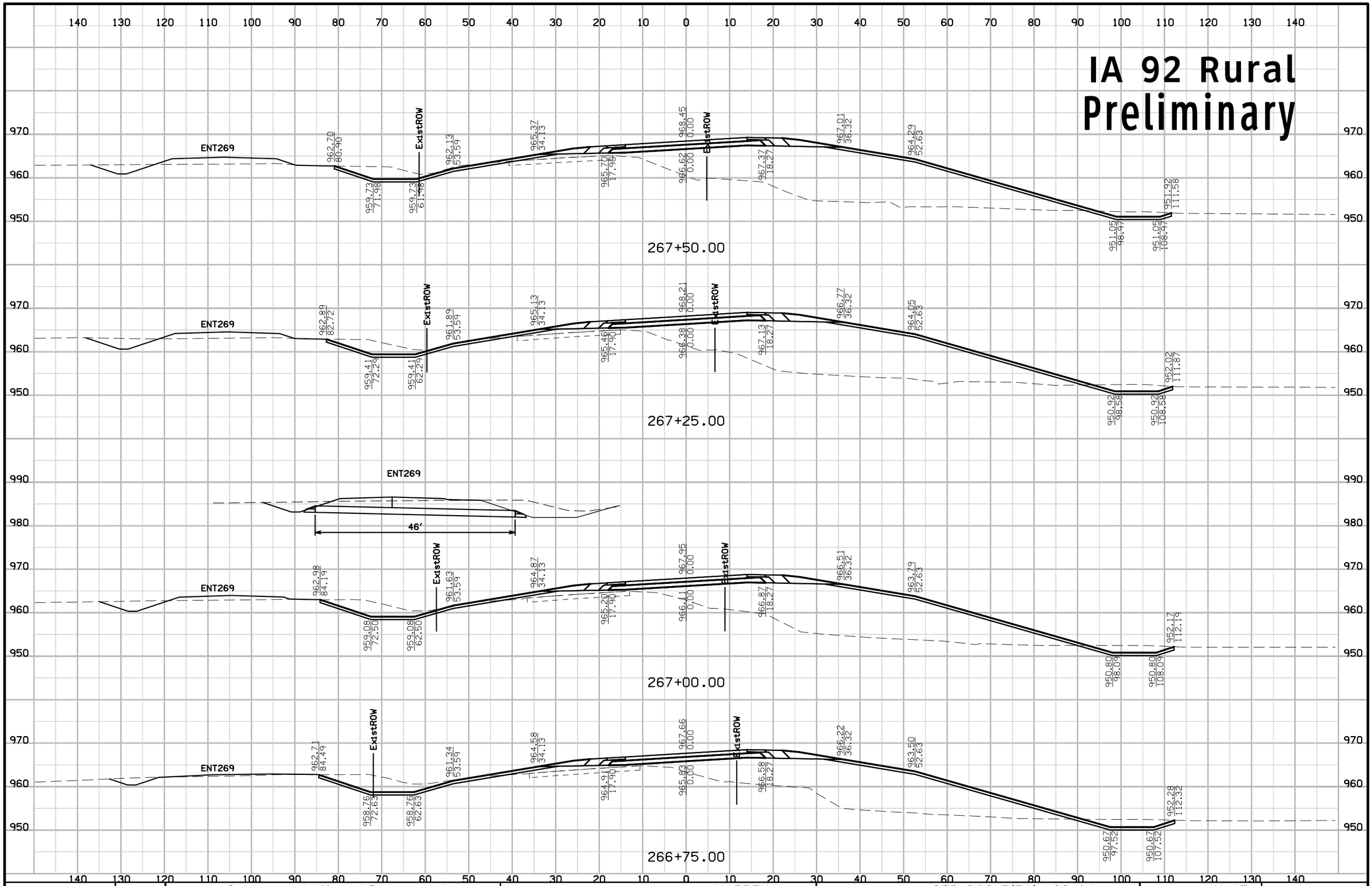
IA 92 Rural Preliminary



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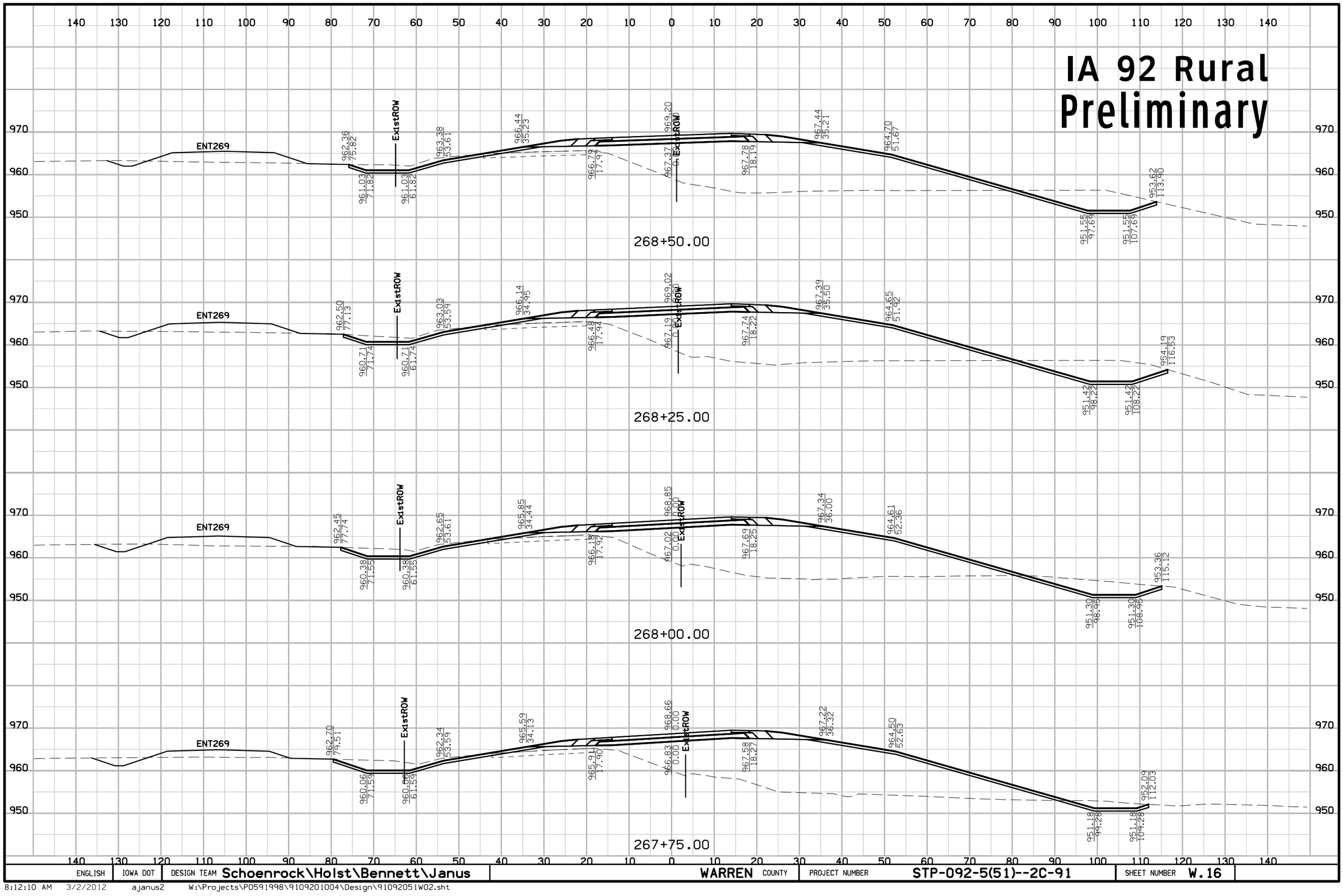
IA 92 Rural Preliminary



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IA 92 Rural Preliminary

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970 960 950

ENT269

963.58 74.22 | ExistROW | 964.30 53.59 | 967.36 35.22 | 969.90 0 ExistROW | 967.62 35.23 | 964.87 51.67

962.33 70.48 | 962.33 60.48 | 967.71 18.02 | 968.07 0 | 967.96 18.08 | 954.21 113.03

952.05 96.56 | 952.05 106.56

269+50.00

ENT269

963.21 74.62 | ExistROW | 964.12 53.61 | 967.19 35.24 | 969.72 0 ExistROW | 967.57 35.21 | 964.83 51.66

962.01 71.02 | 962.01 61.02 | 967.53 18.02 | 967.89 0 | 967.91 18.10 | 953.71 112.17

951.93 96.83 | 951.93 106.83

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ENT269

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961.68 71.54 | 961.68 61.54 | 967.36 18.02 | 967.72 0 | 967.87 18.13 | 953.20 111.32

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ENT269

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961.36 71.76 | 961.36 61.76 | 967.09 18.00 | 967.54 0 | 967.83 18.16 | 954.00 114.36

951.67 97.40 | 951.67 107.40

268+75.00

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 Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.17

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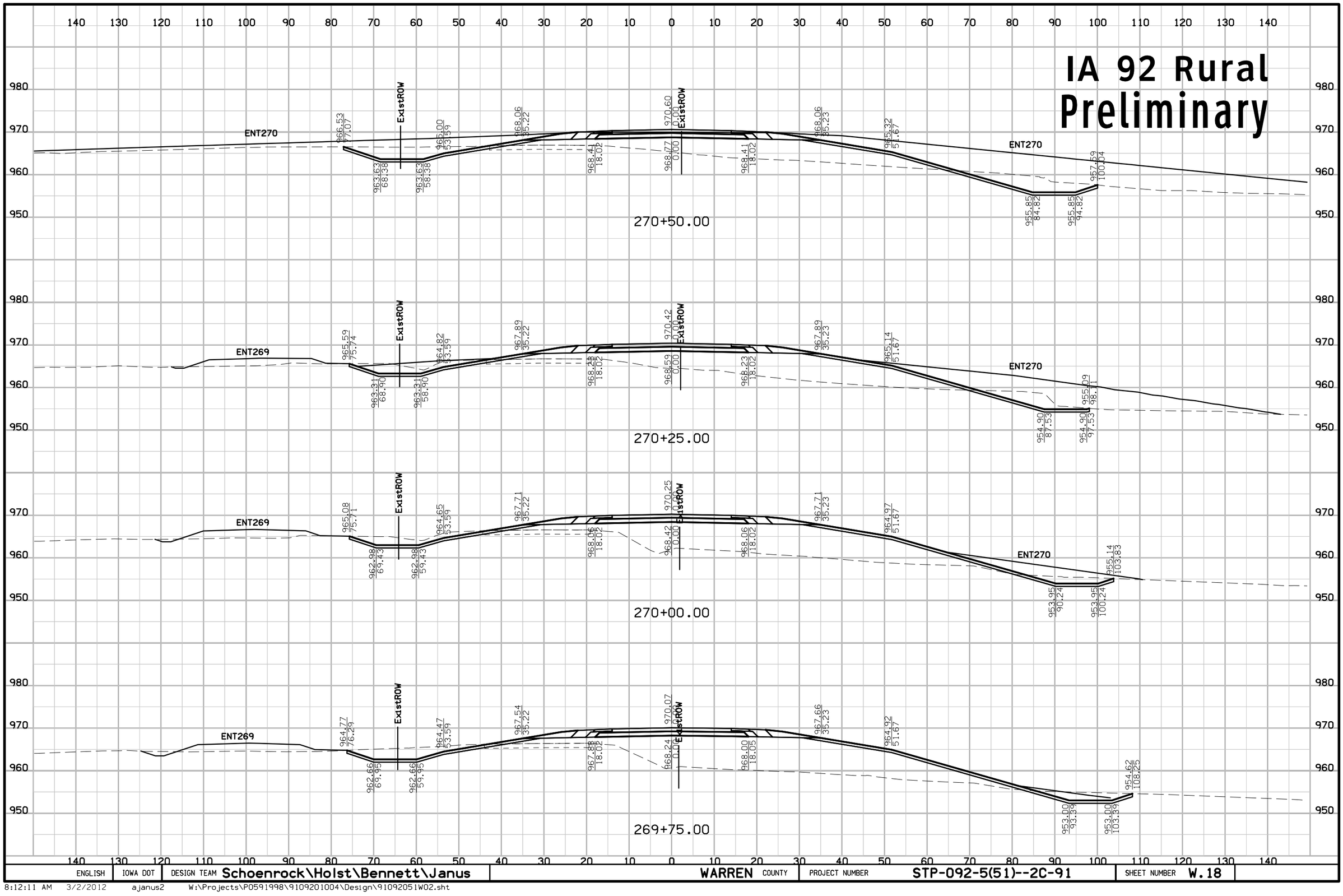
IA 92 Rural Preliminary



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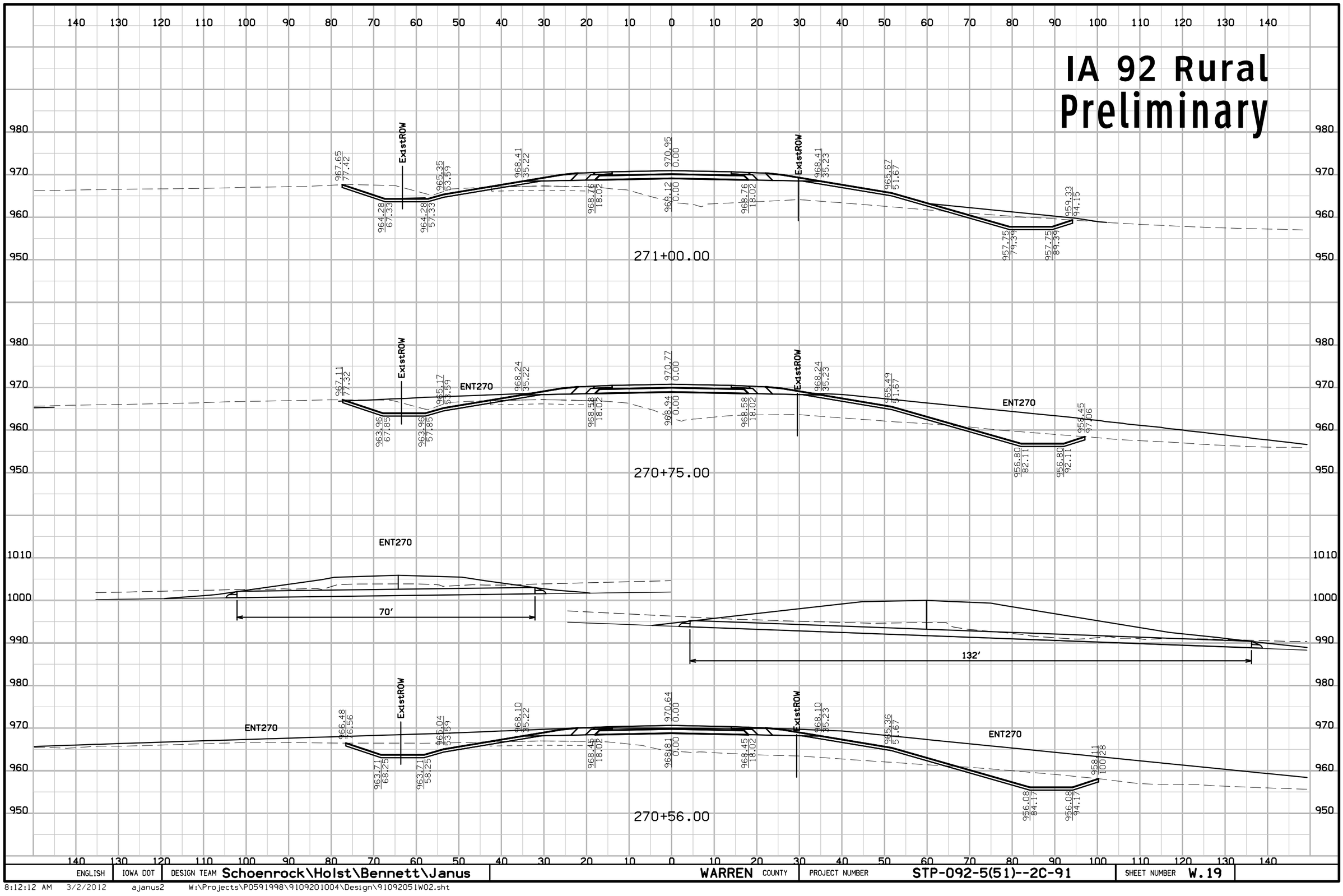
IA 92 Rural Preliminary



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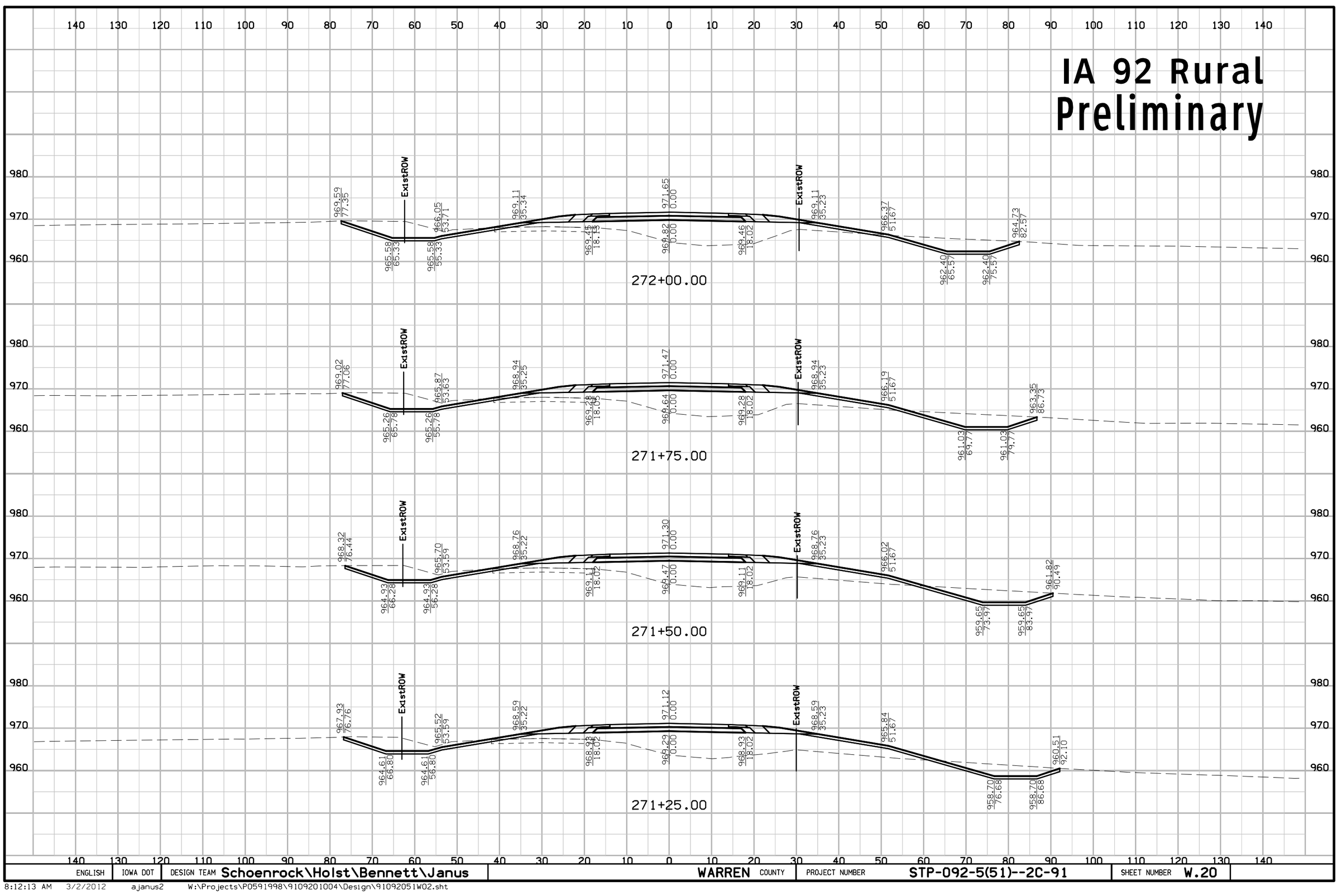
IA 92 Rural
Preliminary



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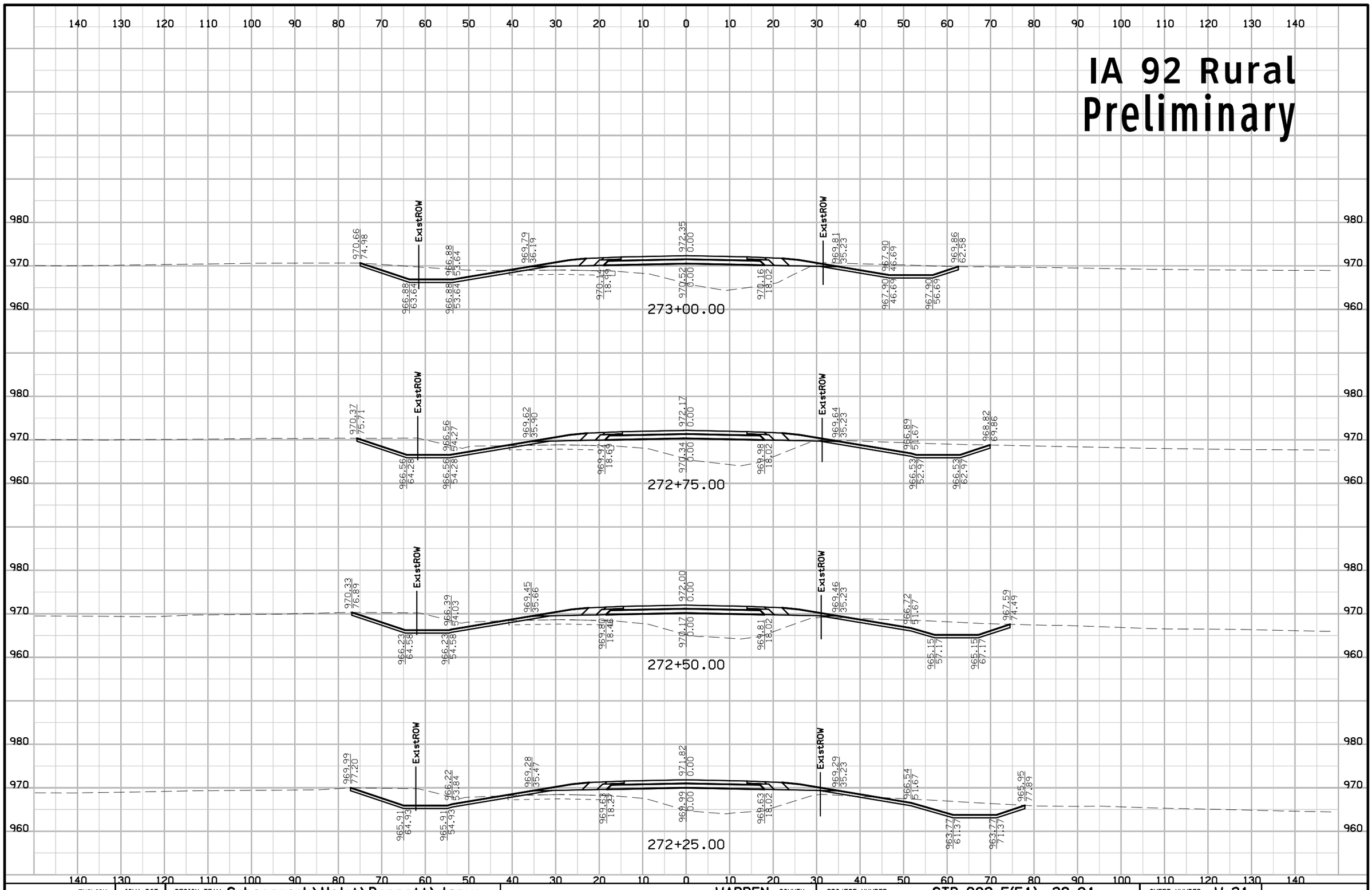
IA 92 Rural
Preliminary



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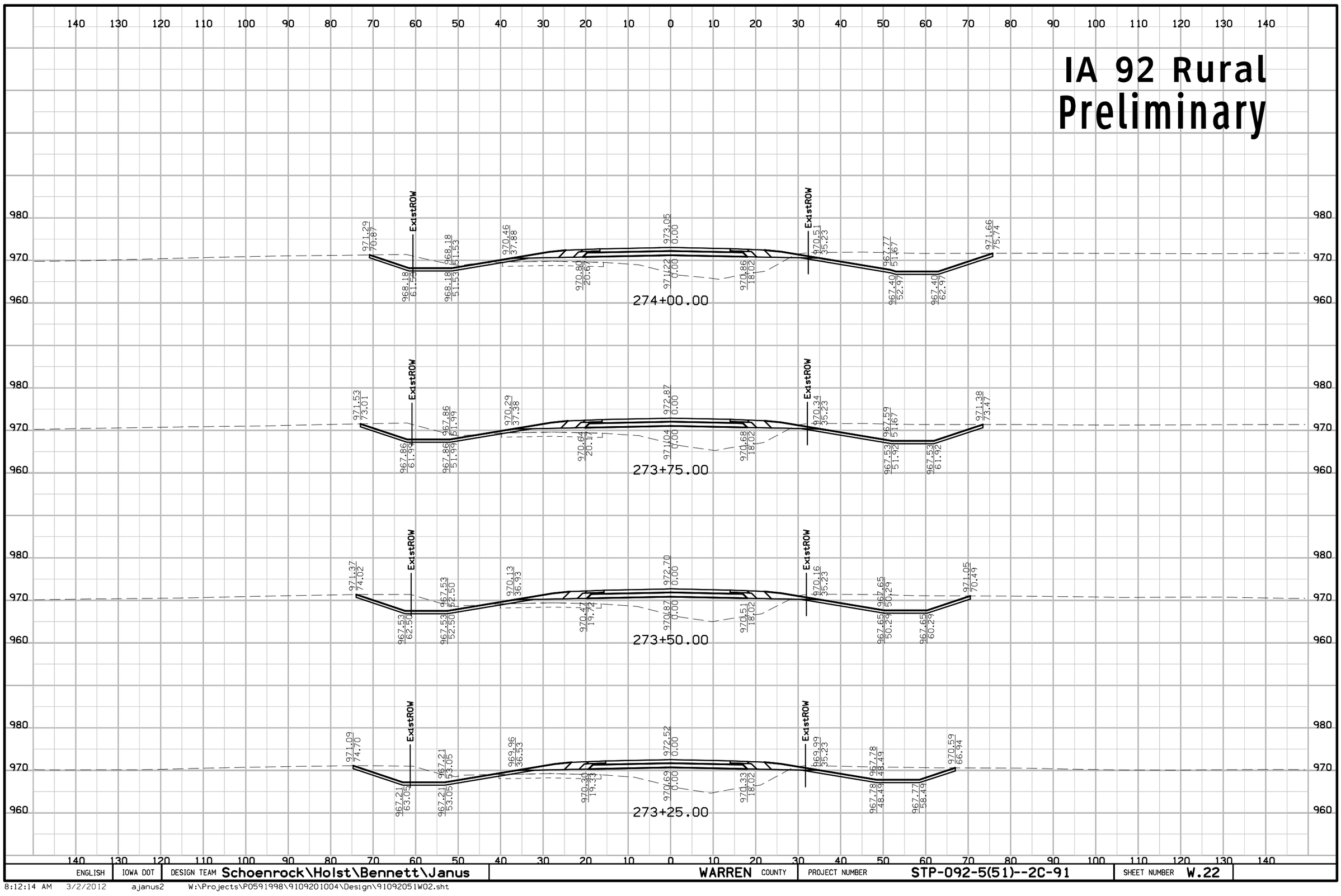
IA 92 Rural
Preliminary



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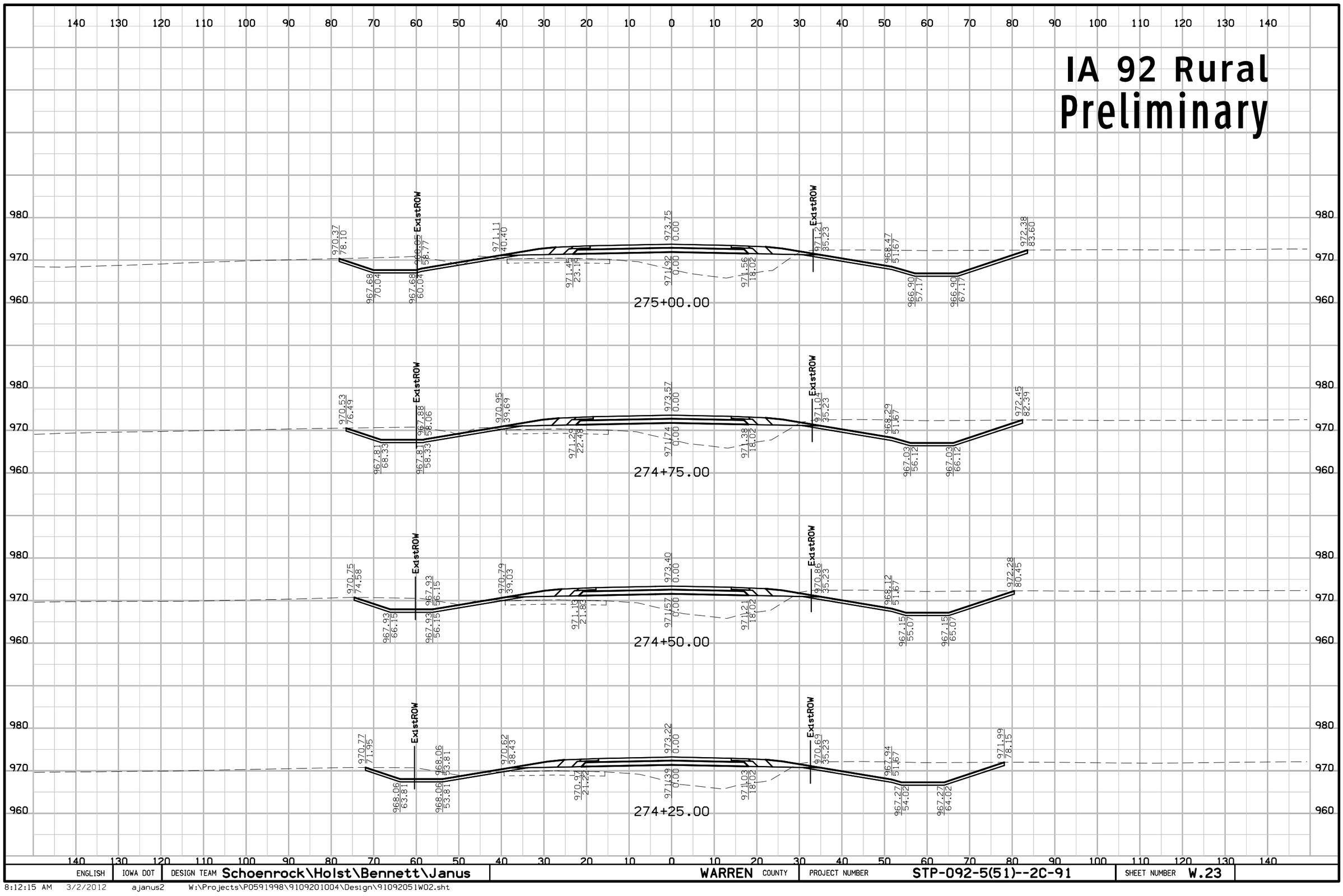
IA 92 Rural
Preliminary



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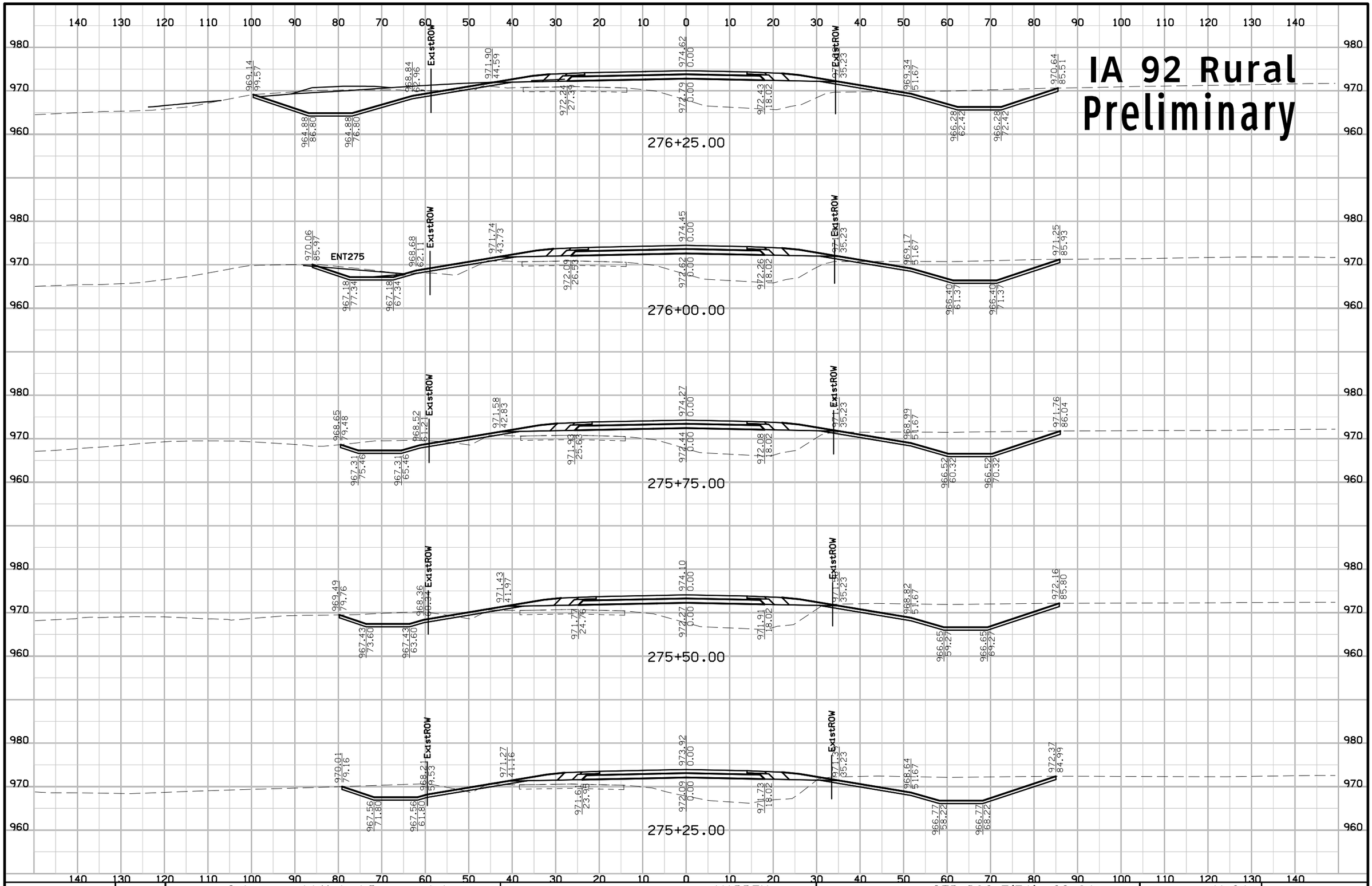

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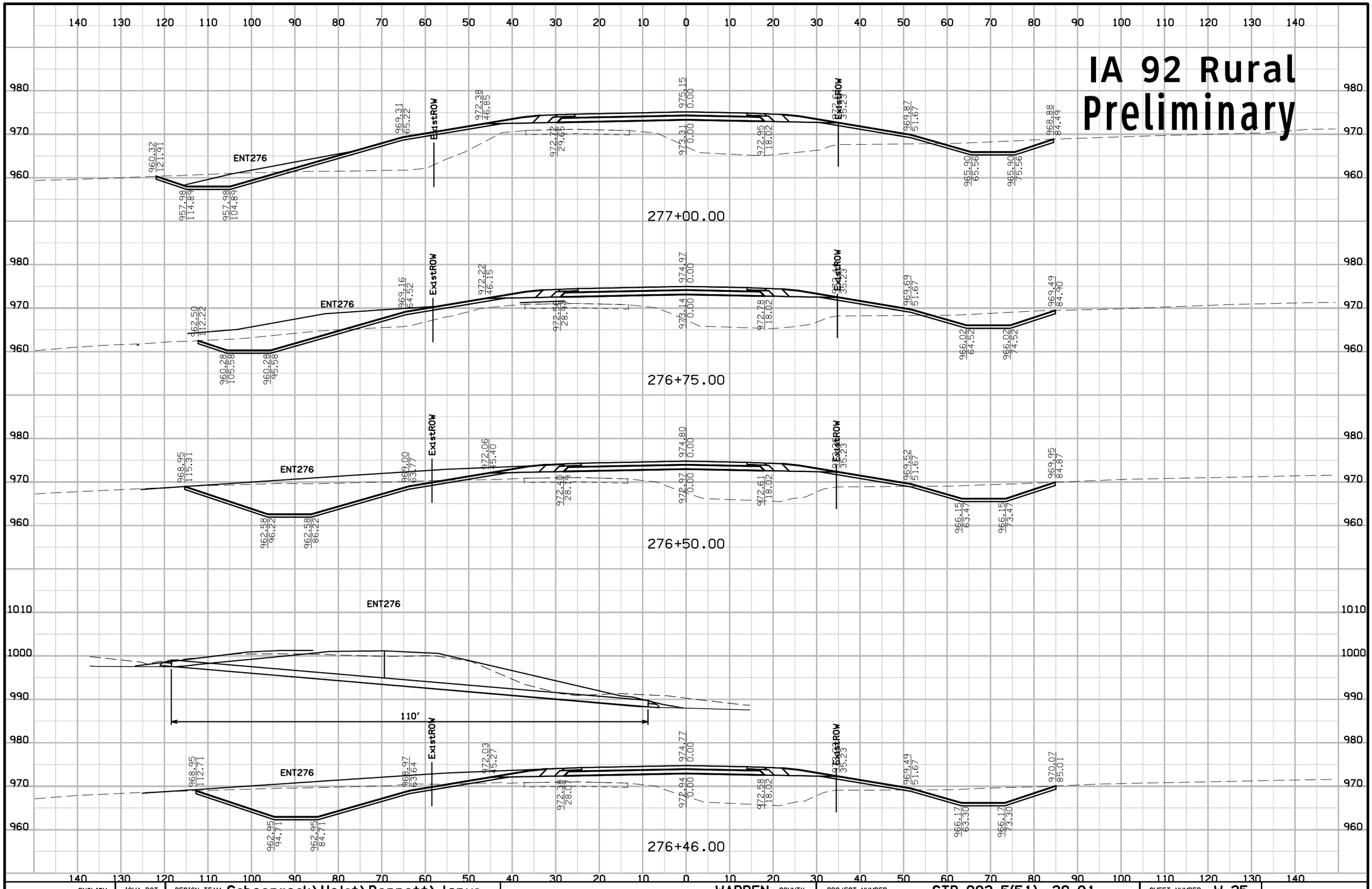
IA 92 Rural Preliminary



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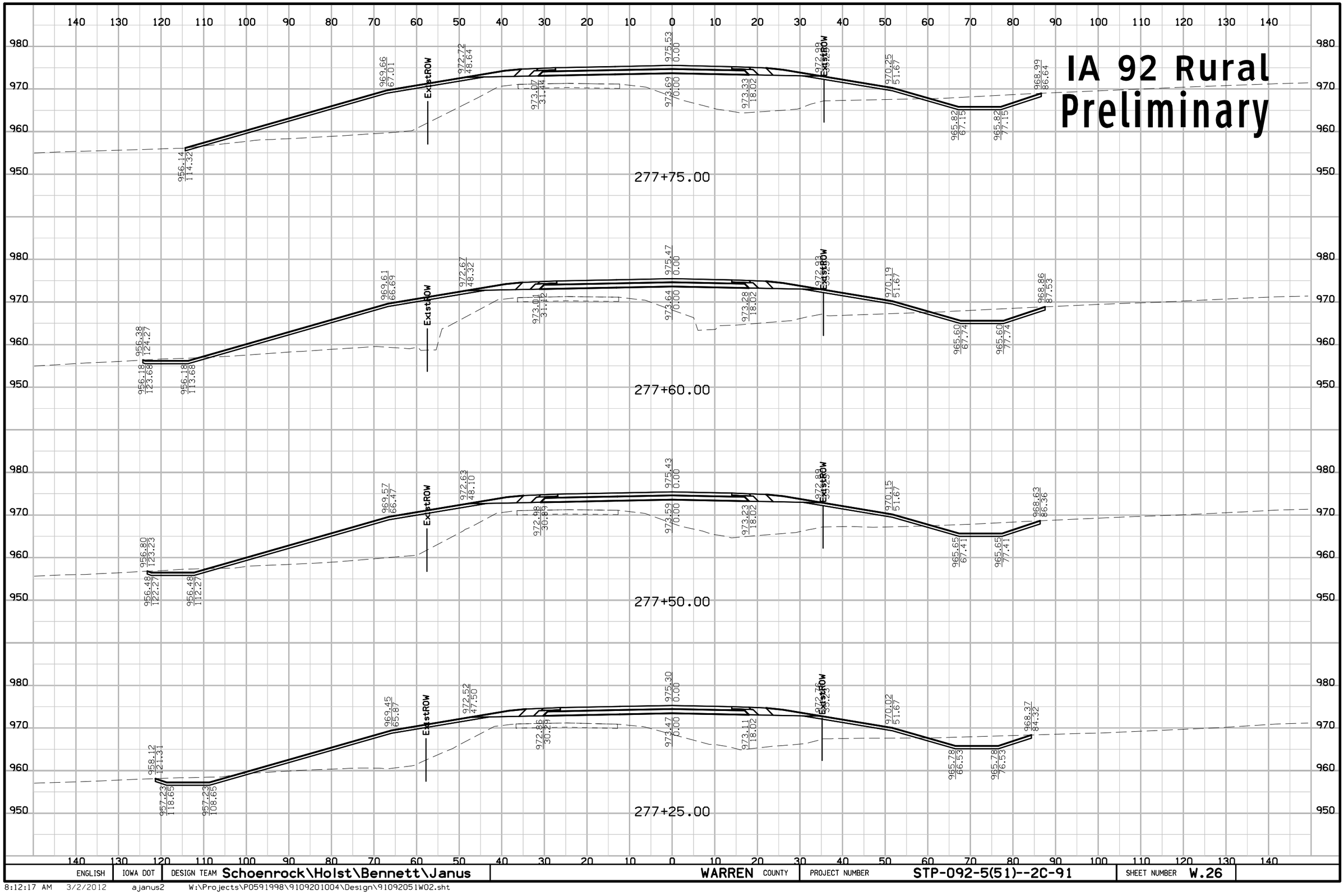
IA 92 Rural Preliminary



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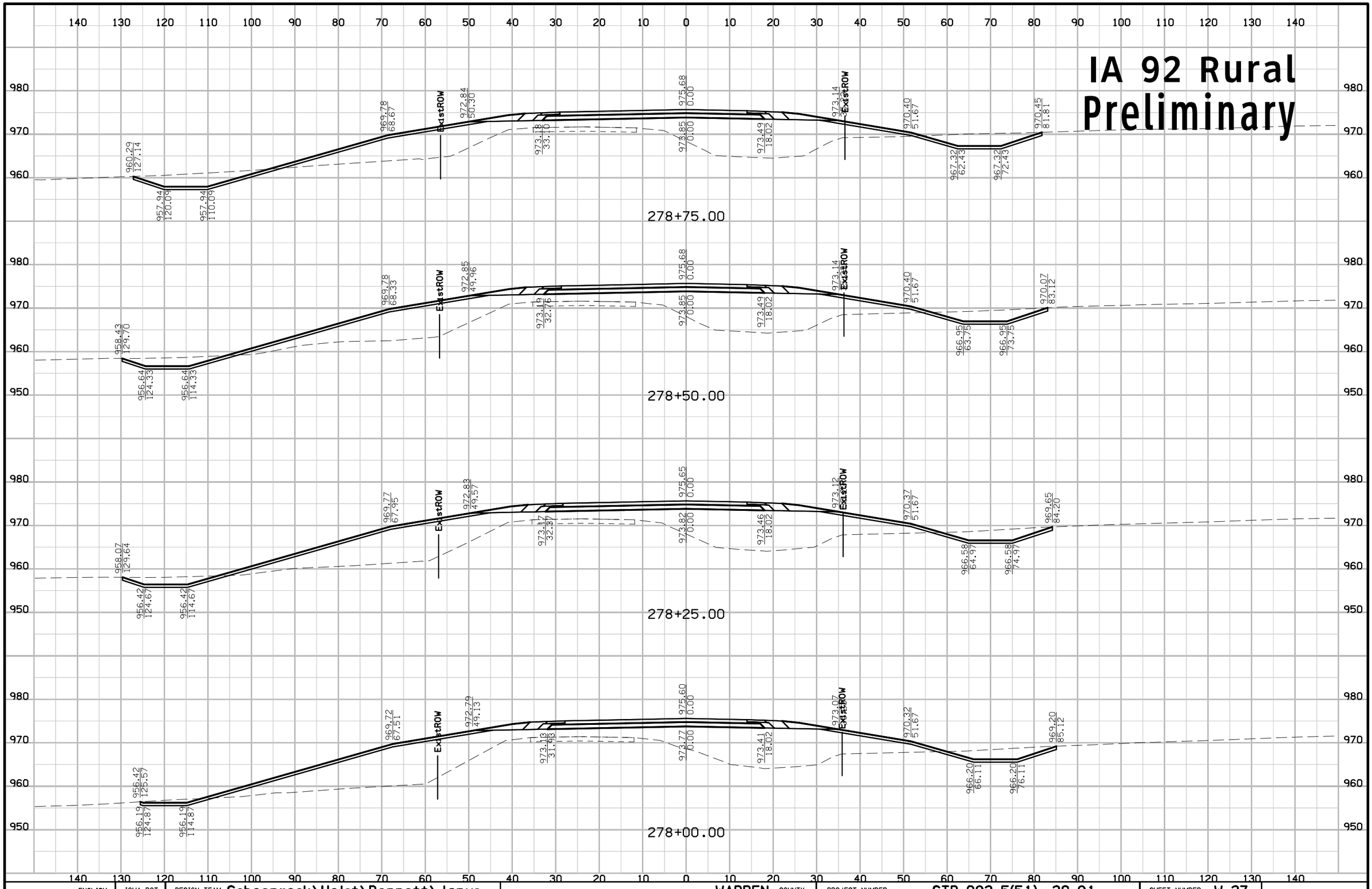
IA 92 Rural
Preliminary



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IA 92 Rural
Preliminary

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980 970 960

966.57 112.05 | 963.14 101.77 | 963.14 91.77 | 969.51 69.49 | ExistROW | 972.57 51.12 | 972.91 33.42 | 975.42 0.00 | 973.59 0.00 | 973.23 18.02 | 972.89 35.23 | ExistROW | 970.14 51.67 | 968.83 56.29 | 968.83 66.29 | 971.44 74.13

279+75.00

964.94 115.85 | 961.84 106.56 | 961.84 96.56 | 969.61 69.37 | ExistROW | 972.67 50.99 | 973.02 33.79 | 975.53 0.00 | 973.69 0.00 | 973.33 18.02 | 972.99 35.23 | ExistROW | 970.25 51.67 | 968.45 57.96 | 968.45 67.96 | 971.43 76.89

279+50.00

963.43 119.87 | 960.54 111.21 | 960.54 101.21 | 969.69 69.19 | ExistROW | 972.75 50.81 | 973.10 33.61 | 975.60 0.00 | 973.77 0.00 | 973.41 18.02 | 973.06 35.23 | ExistROW | 970.32 51.67 | 968.07 59.54 | 968.07 69.54 | 971.20 78.93

279+25.00

961.99 123.97 | 959.24 115.72 | 959.24 105.72 | 969.75 68.95 | ExistROW | 972.81 50.58 | 973.15 33.38 | 975.65 0.00 | 973.82 0.00 | 973.46 18.02 | 973.12 35.23 | ExistROW | 970.37 51.67 | 967.70 61.03 | 967.70 71.03 | 970.74 80.16

279+00.00

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 Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.28

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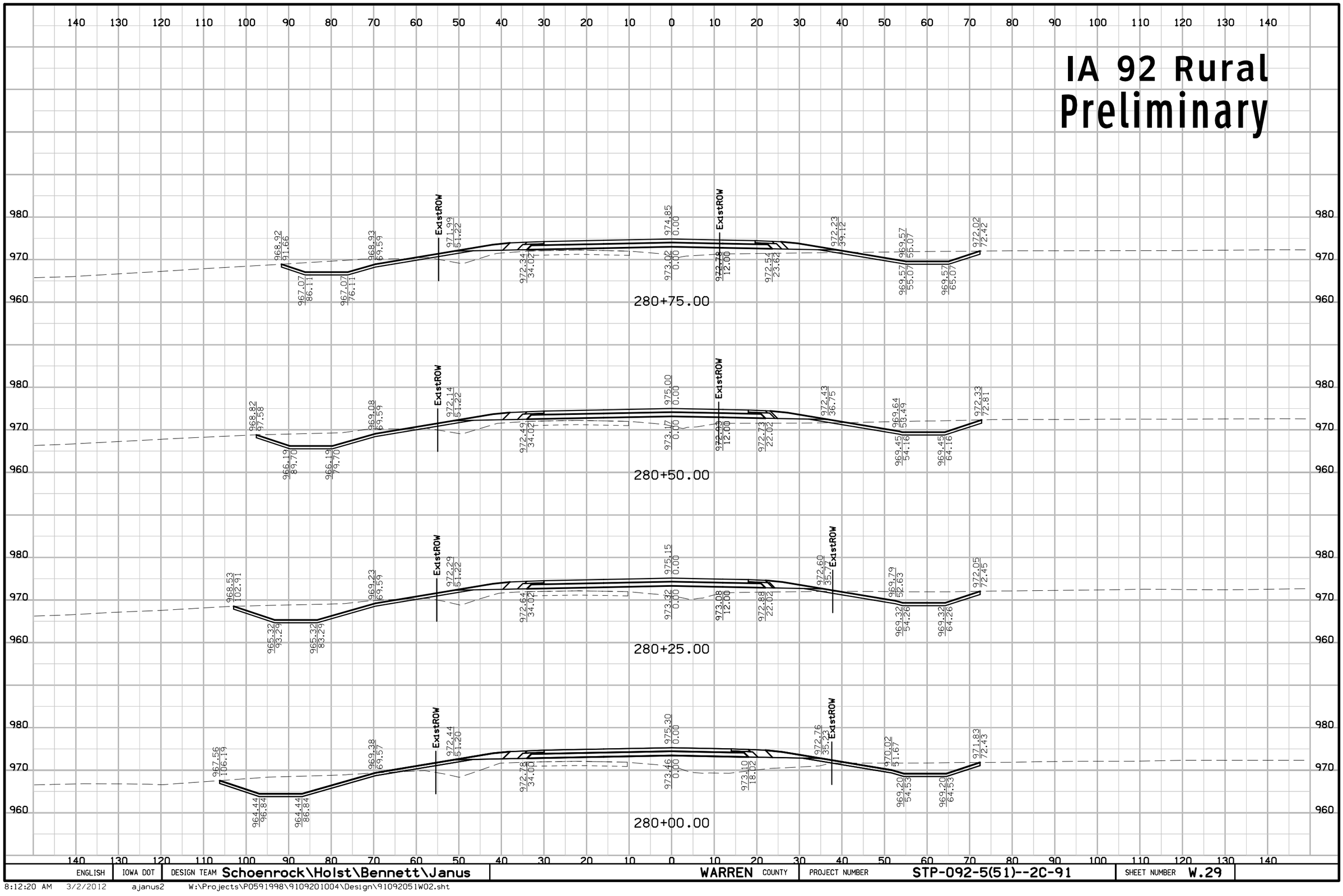
IA 92 Rural
Preliminary



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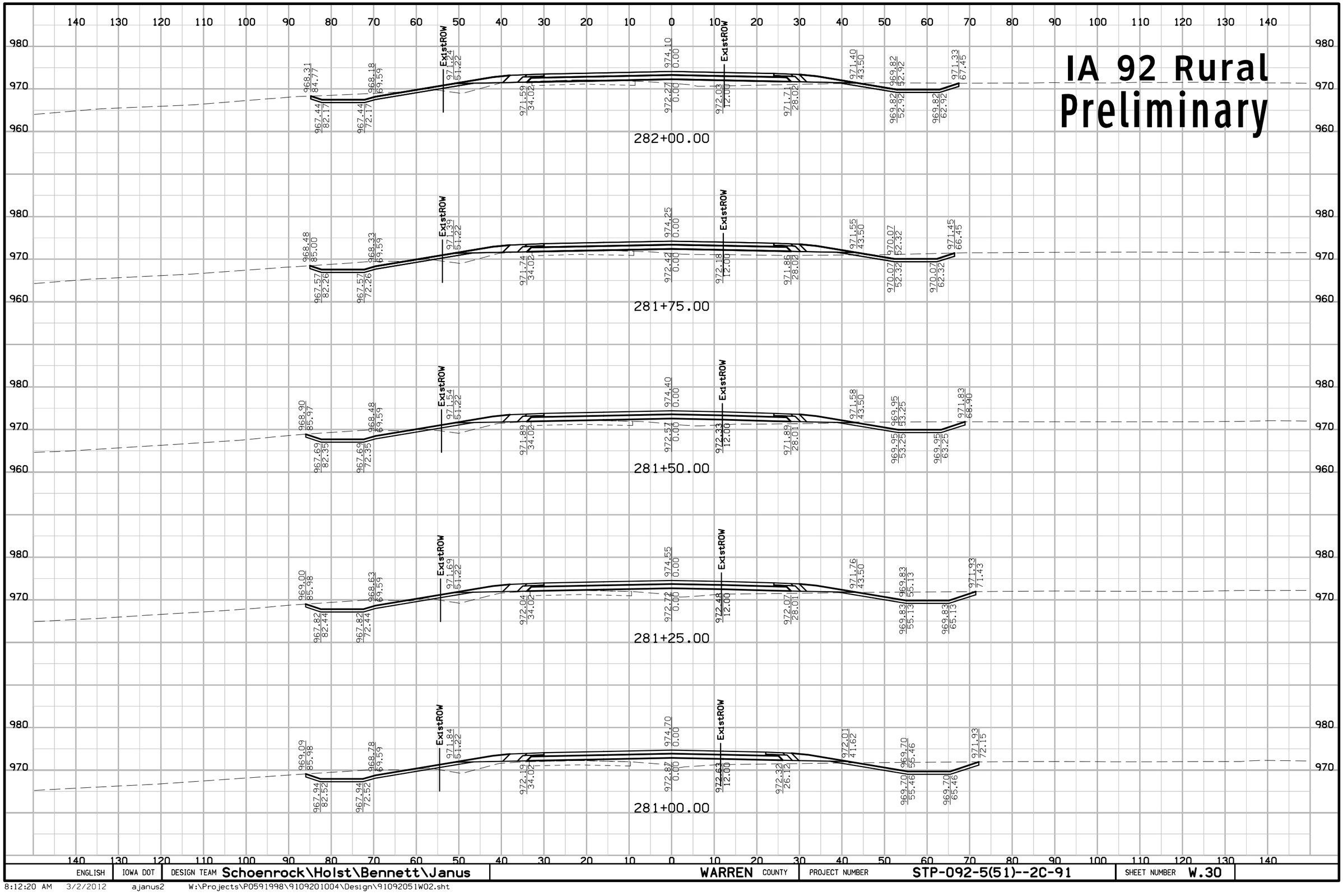
IA 92 Rural Preliminary



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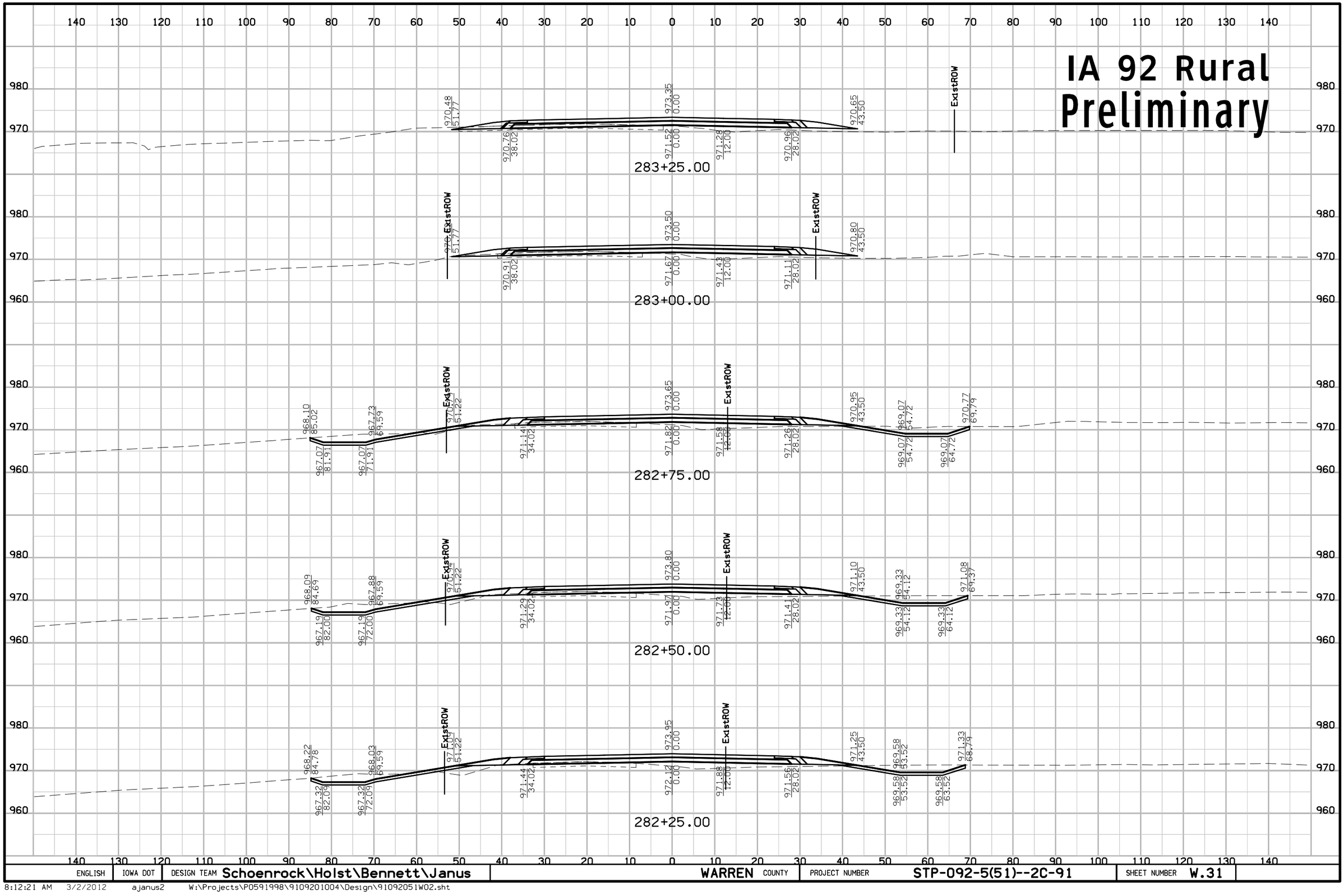
IA 92 Rural Preliminary



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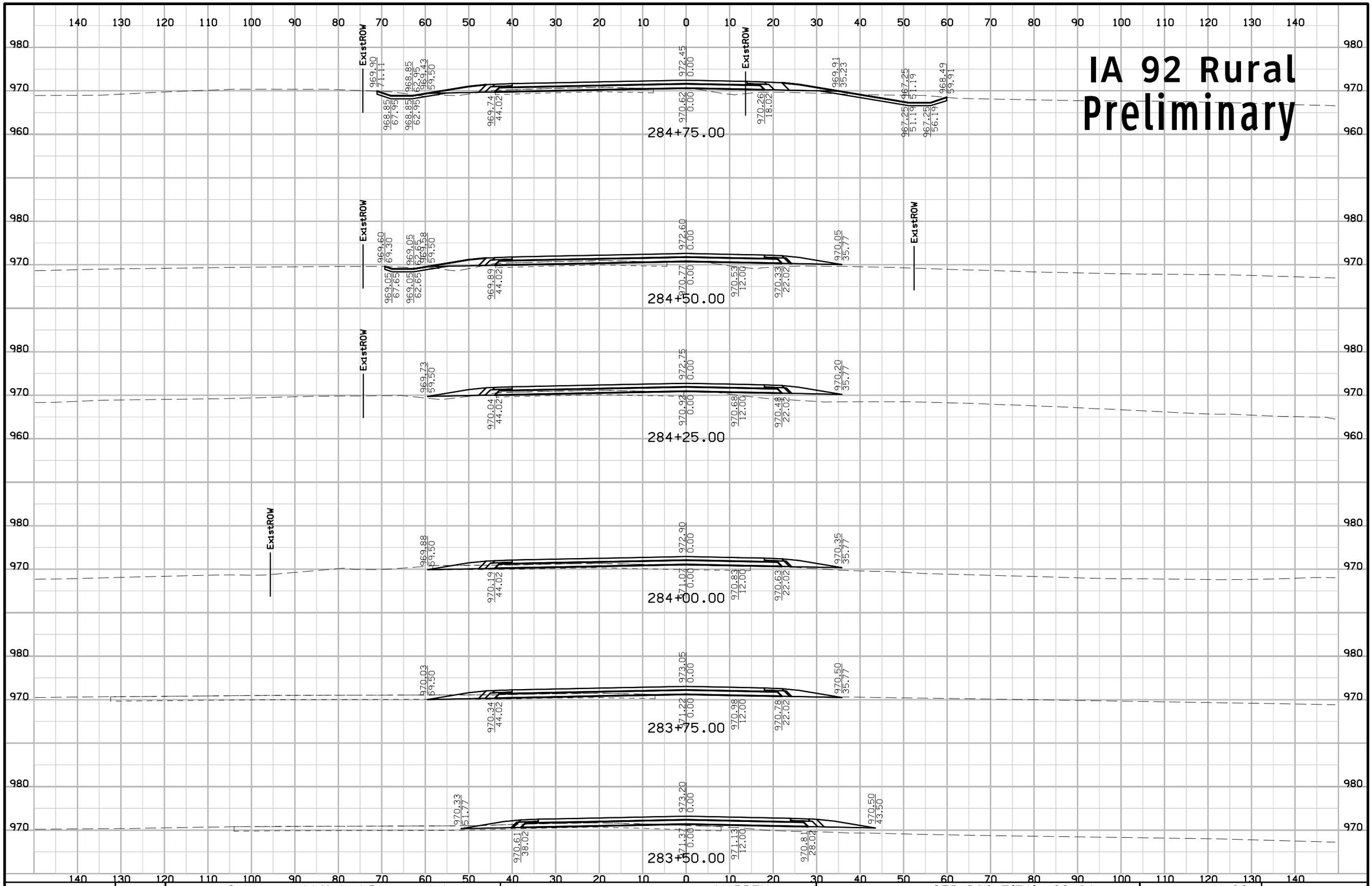
IA 92 Rural Preliminary



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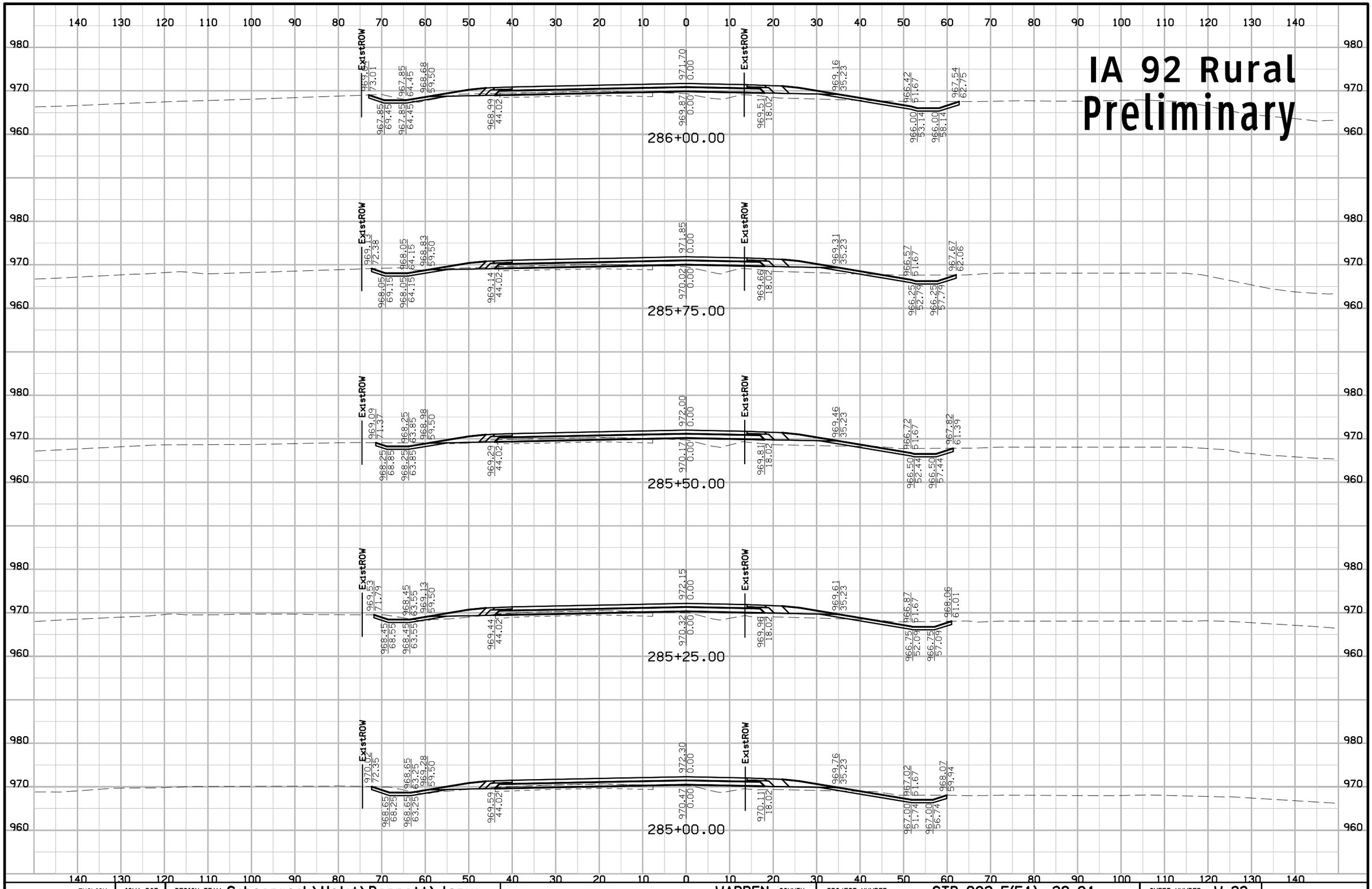
IA 92 Rural Preliminary



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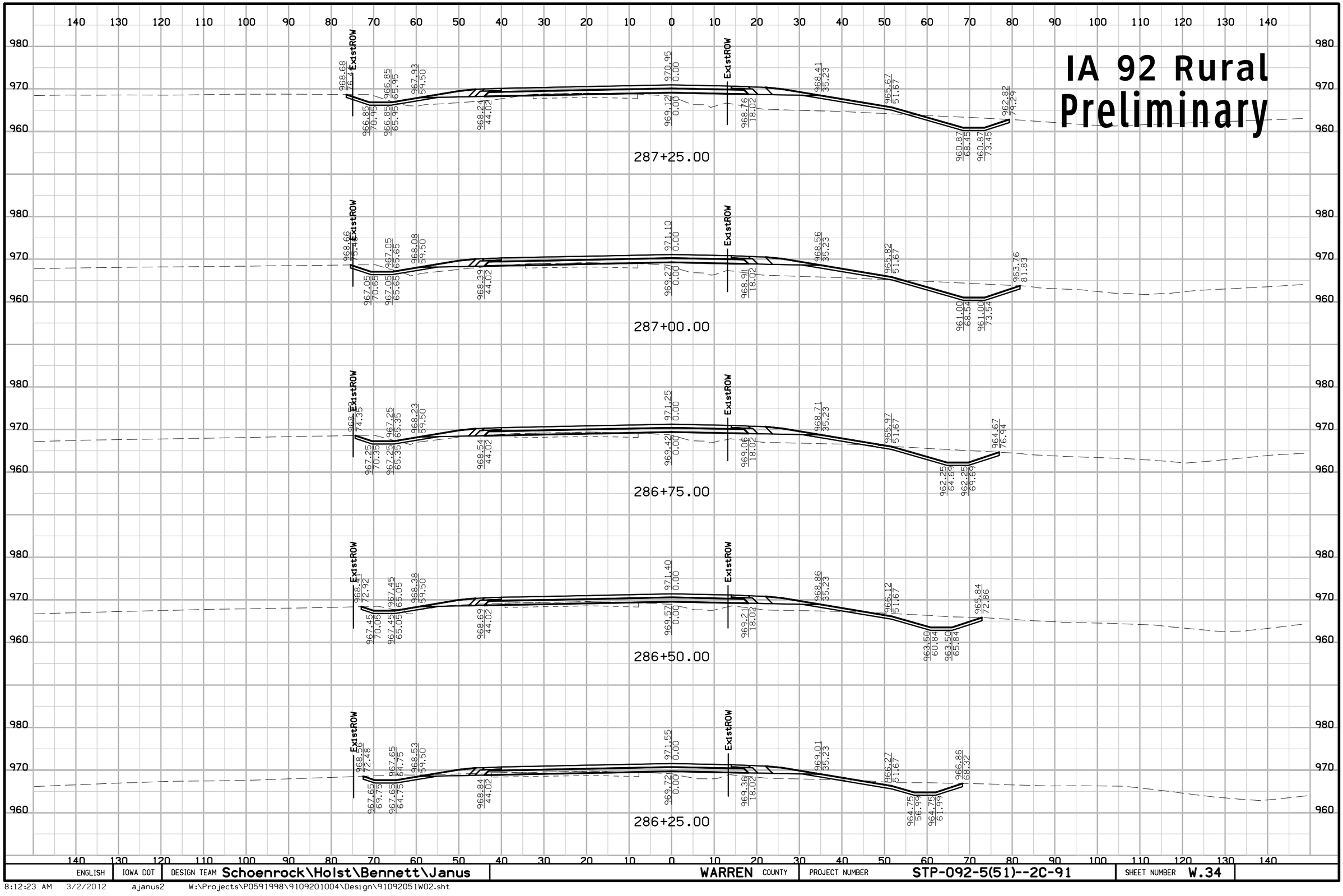
IA 92 Rural Preliminary



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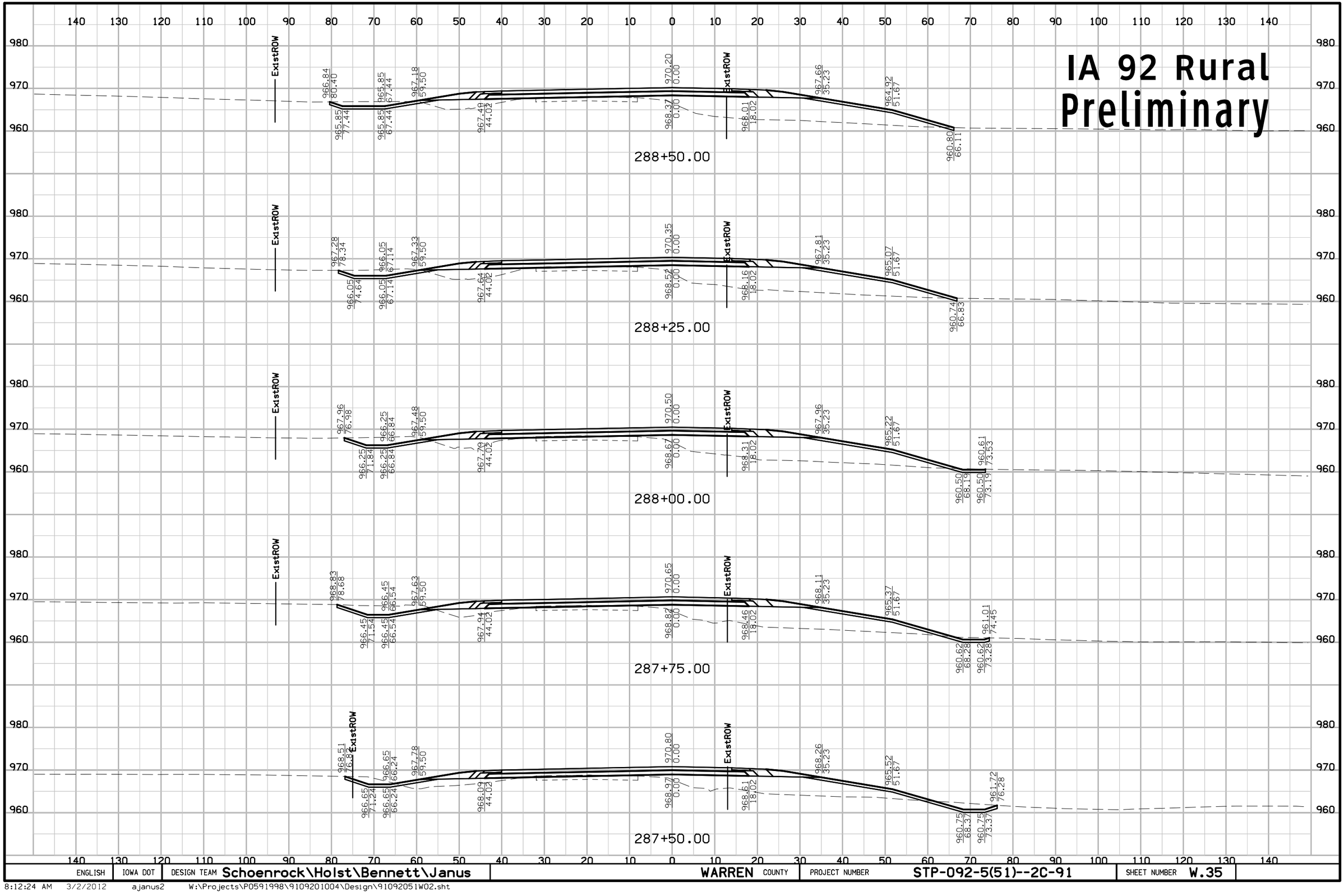
IA 92 Rural Preliminary



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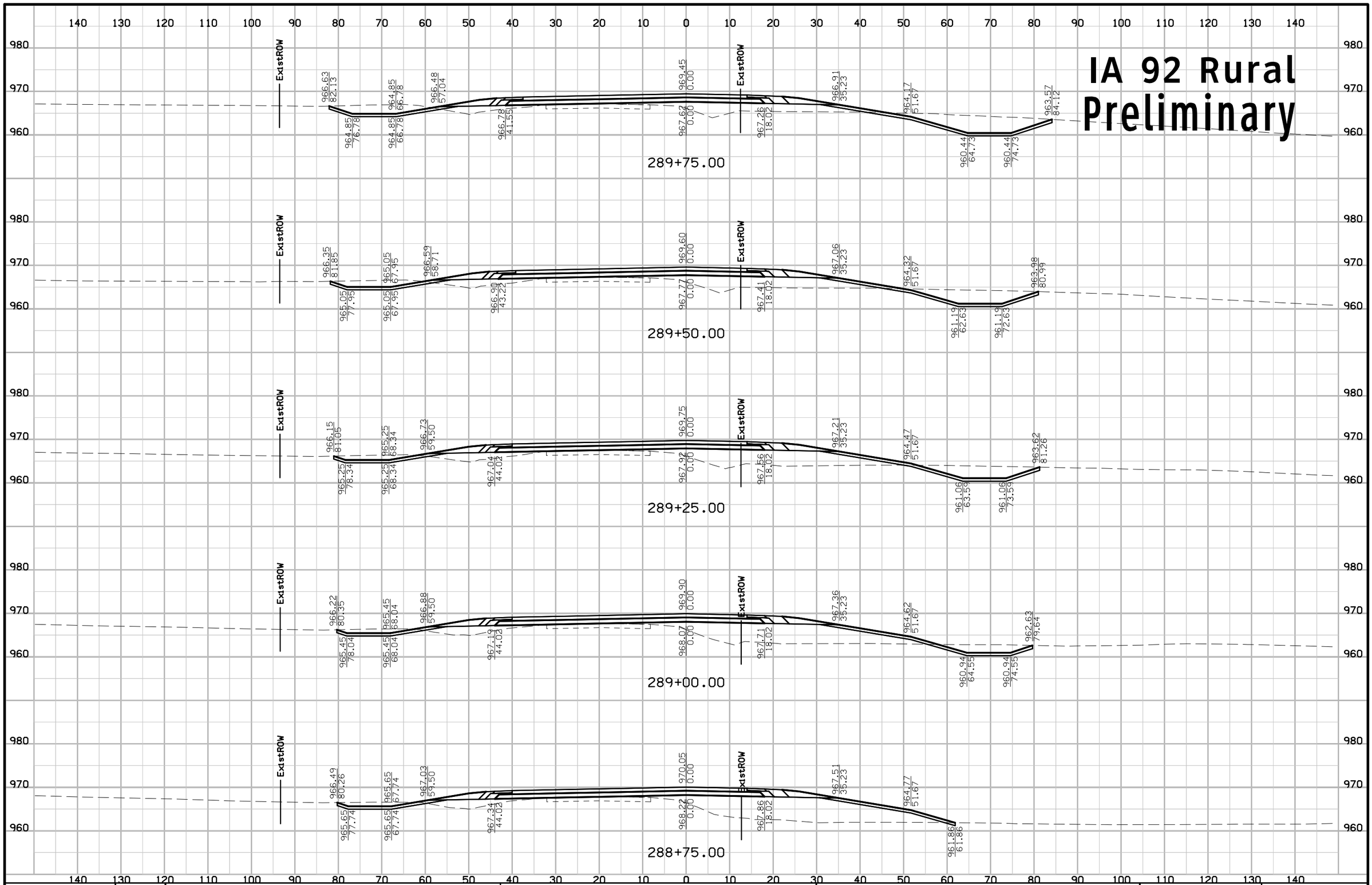
IA 92 Rural Preliminary



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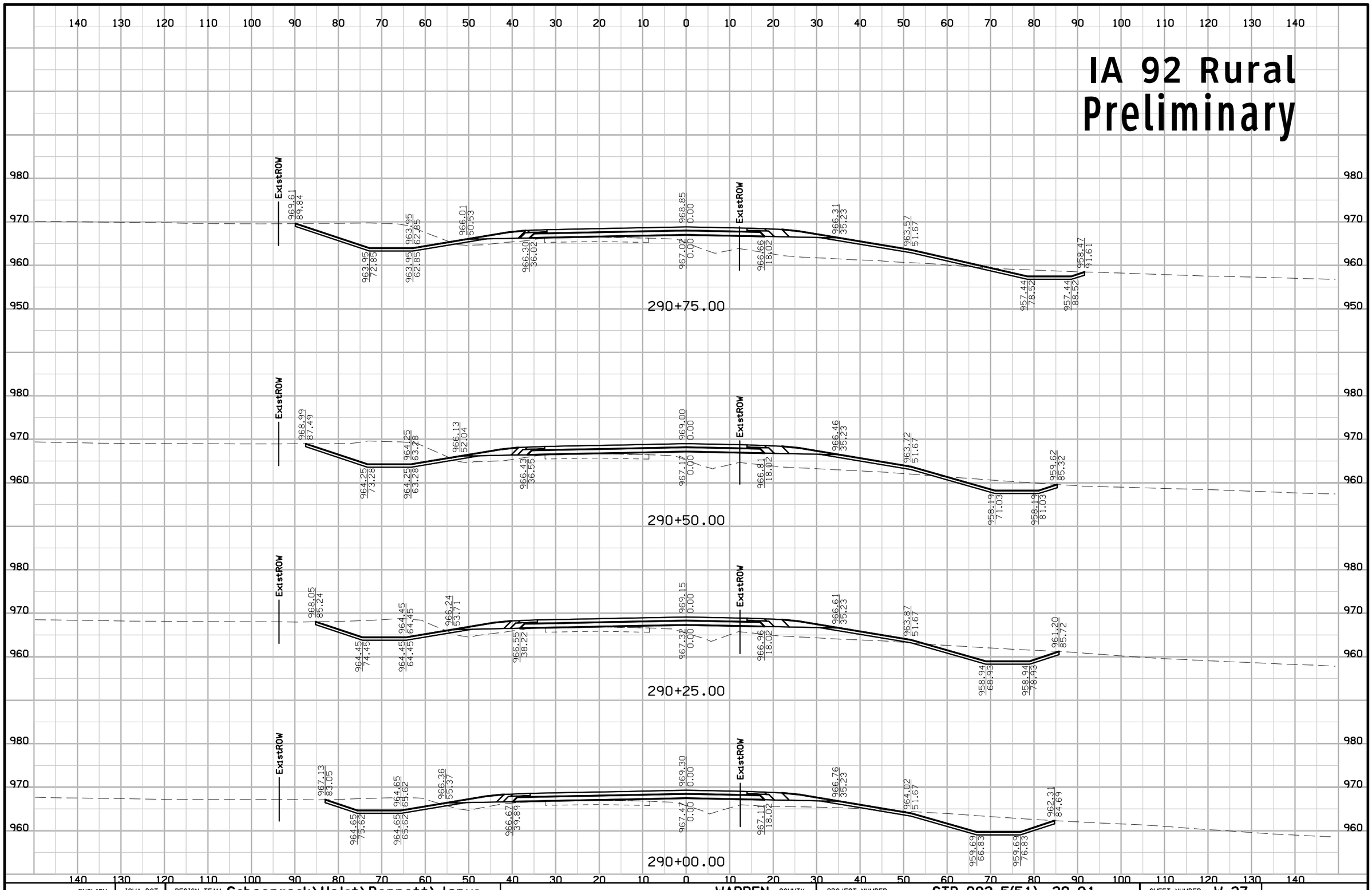
IA 92 Rural
Preliminary



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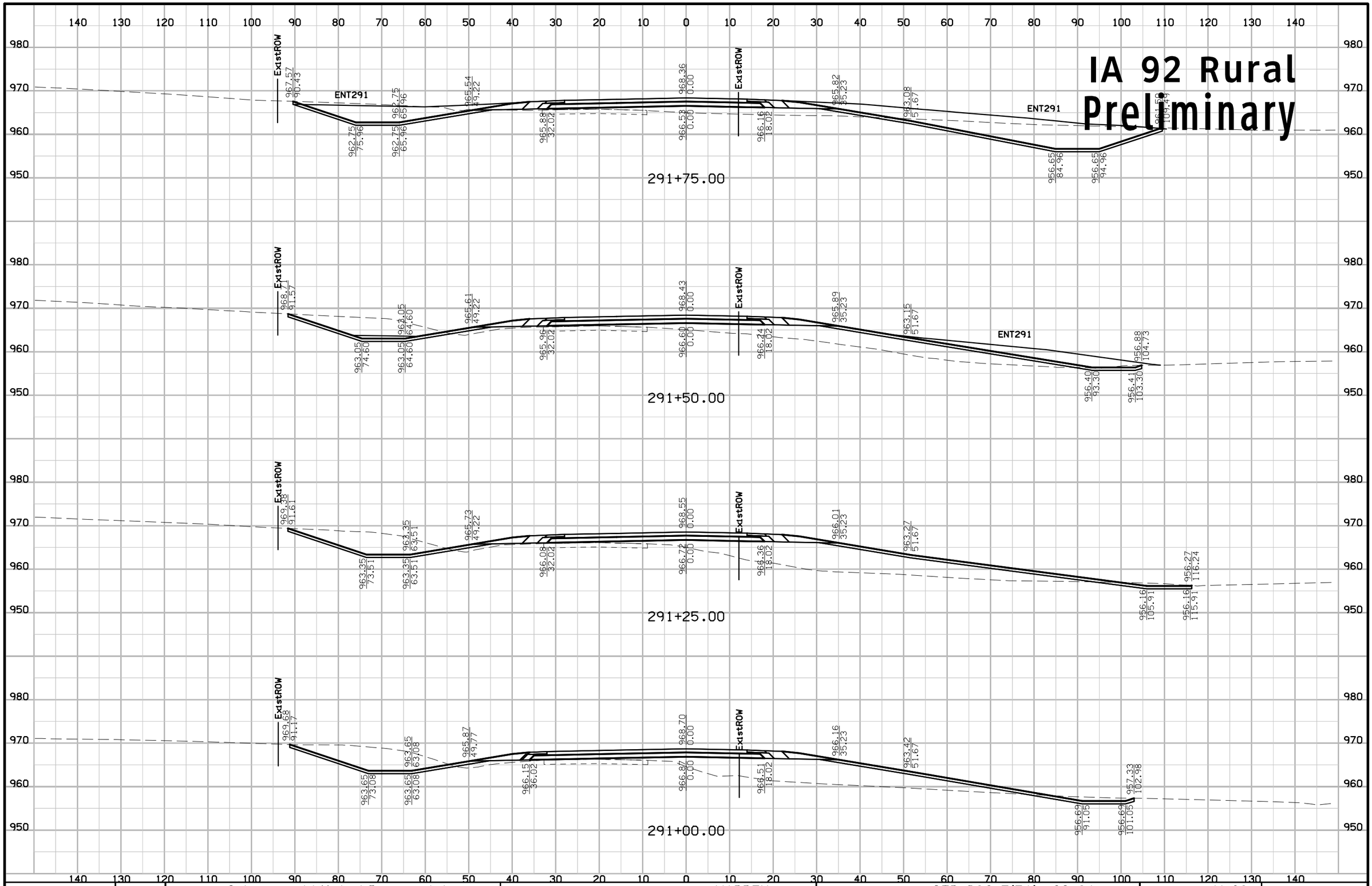
IA 92 Rural
Preliminary



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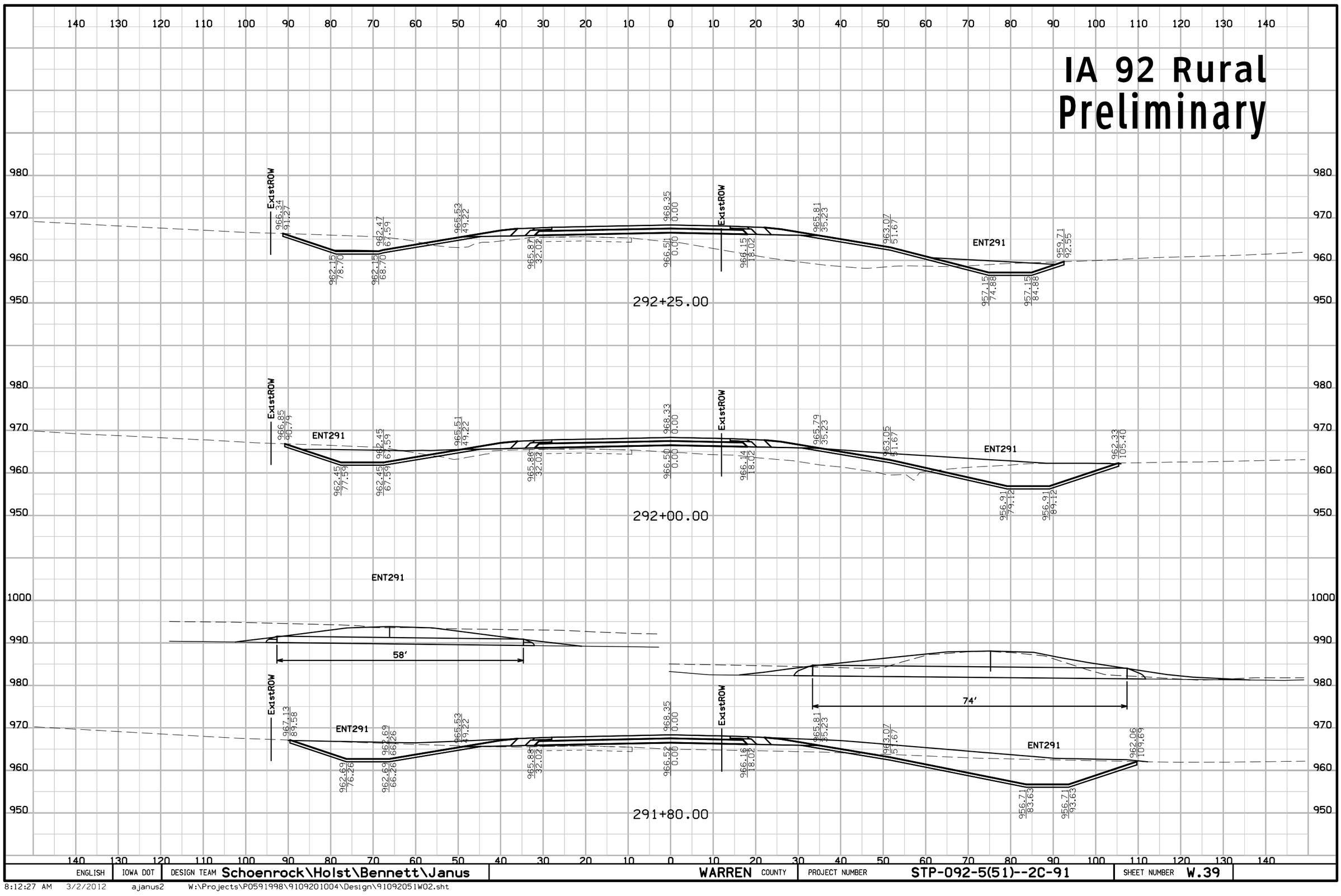
IA 92 Rural
Preliminary



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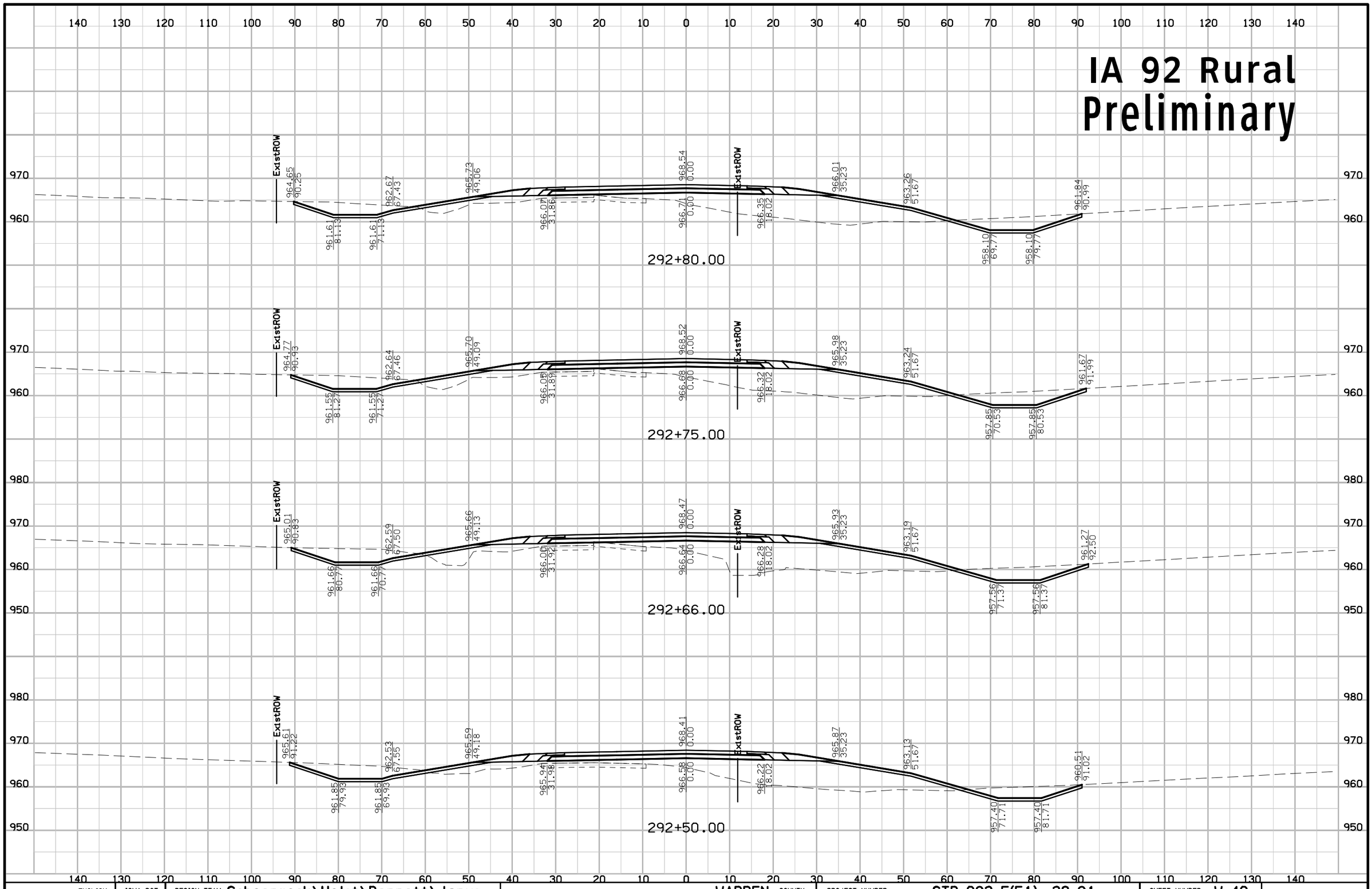
IA 92 Rural
Preliminary



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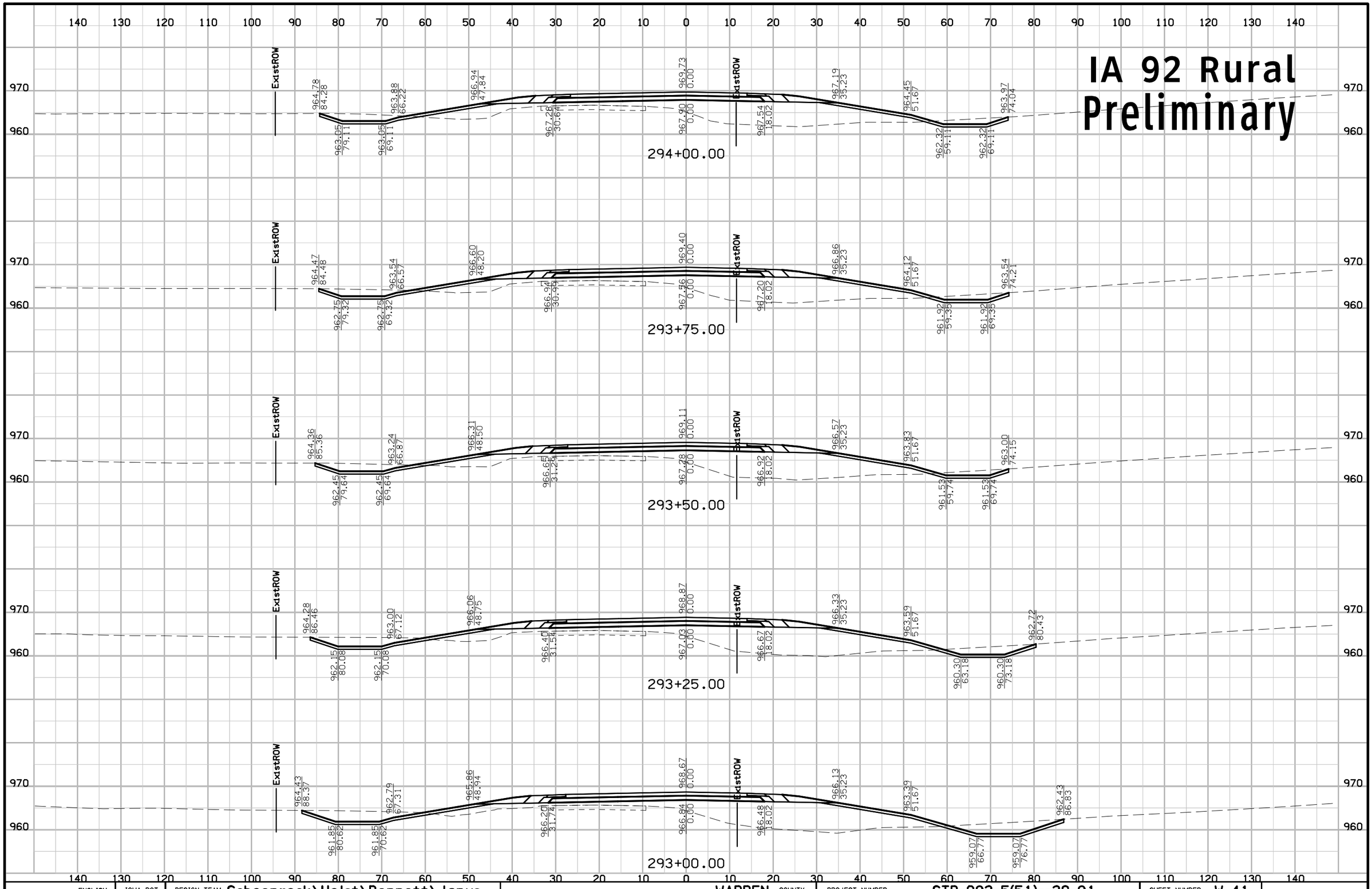
IA 92 Rural
Preliminary



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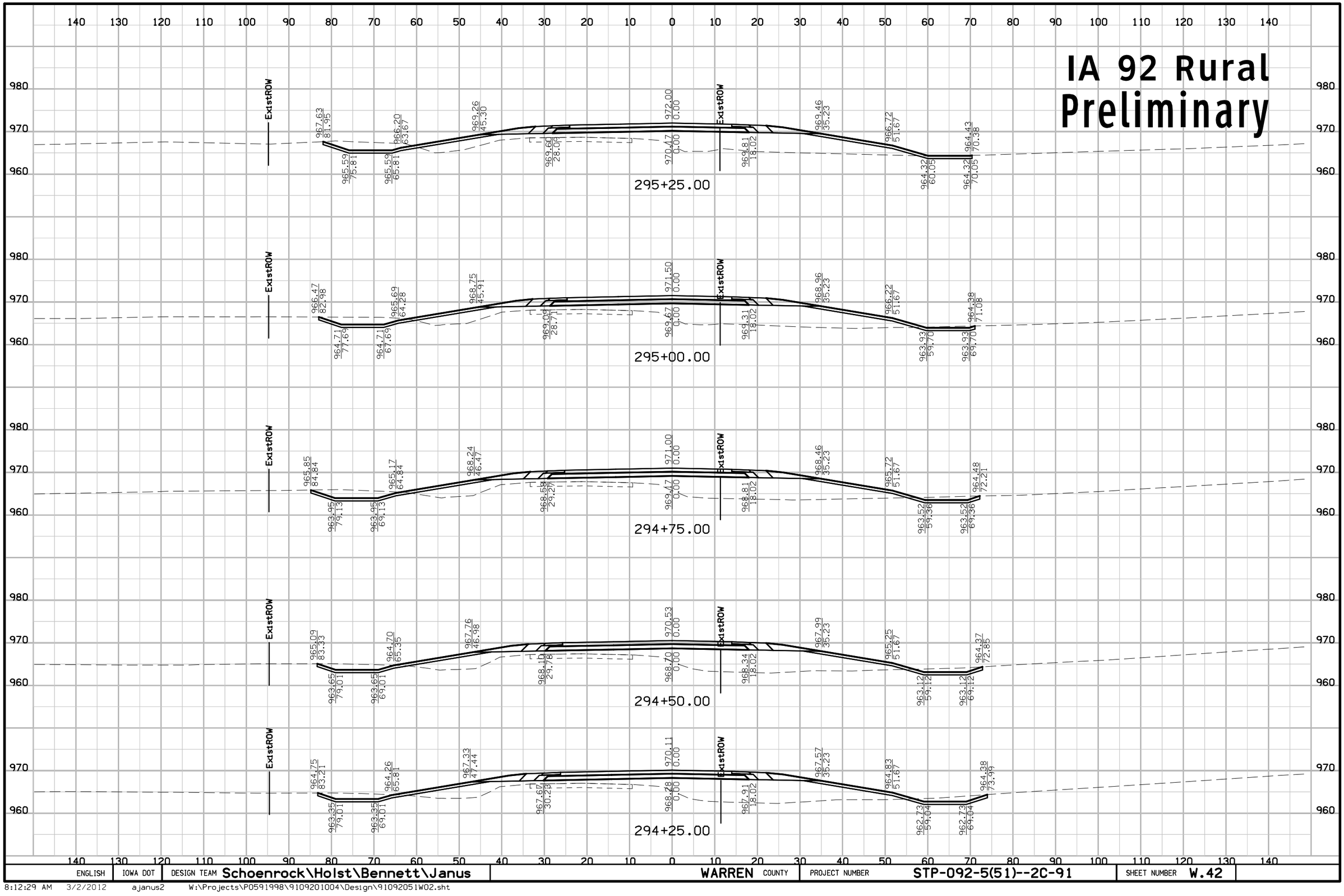
IA 92 Rural Preliminary



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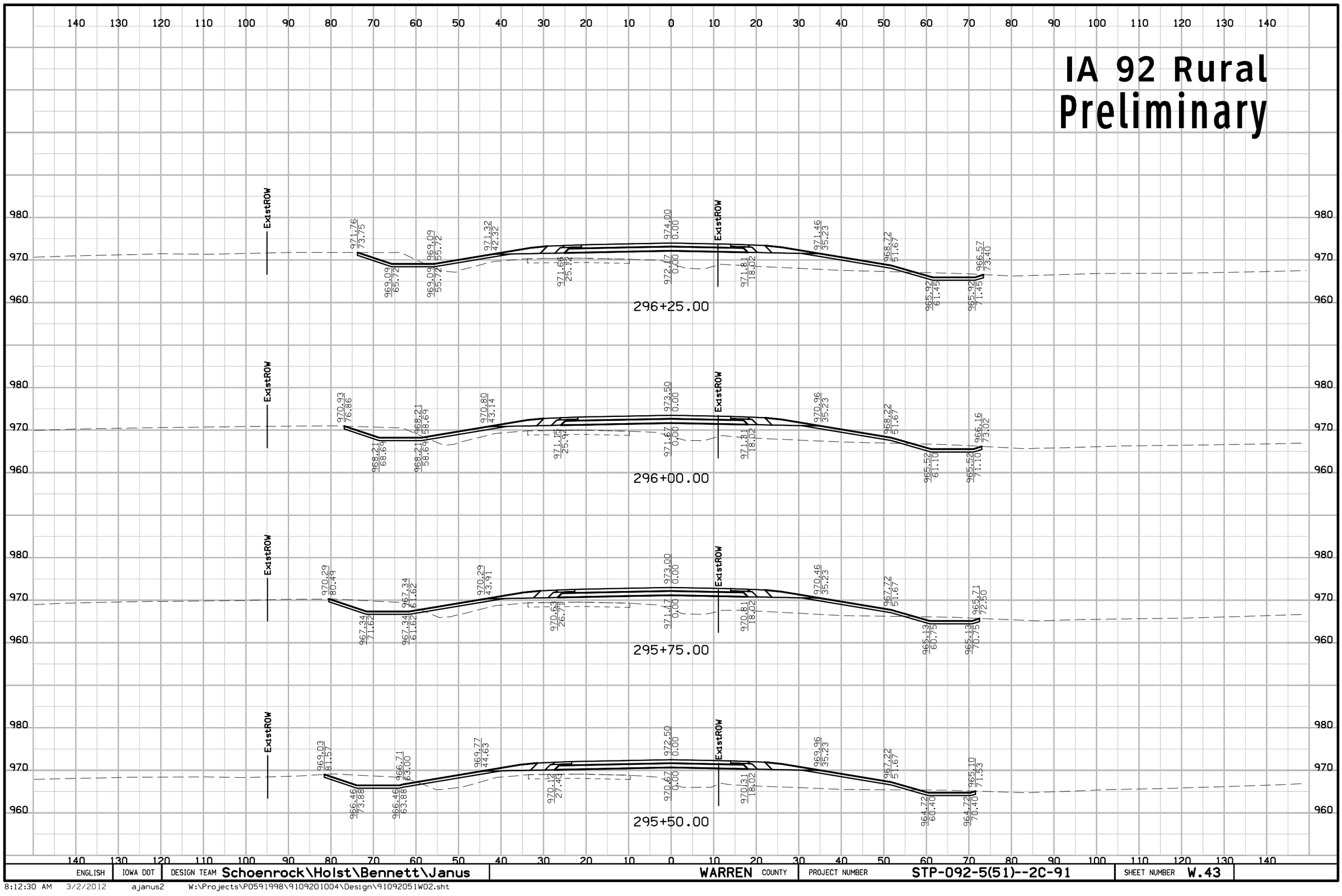
IA 92 Rural
Preliminary



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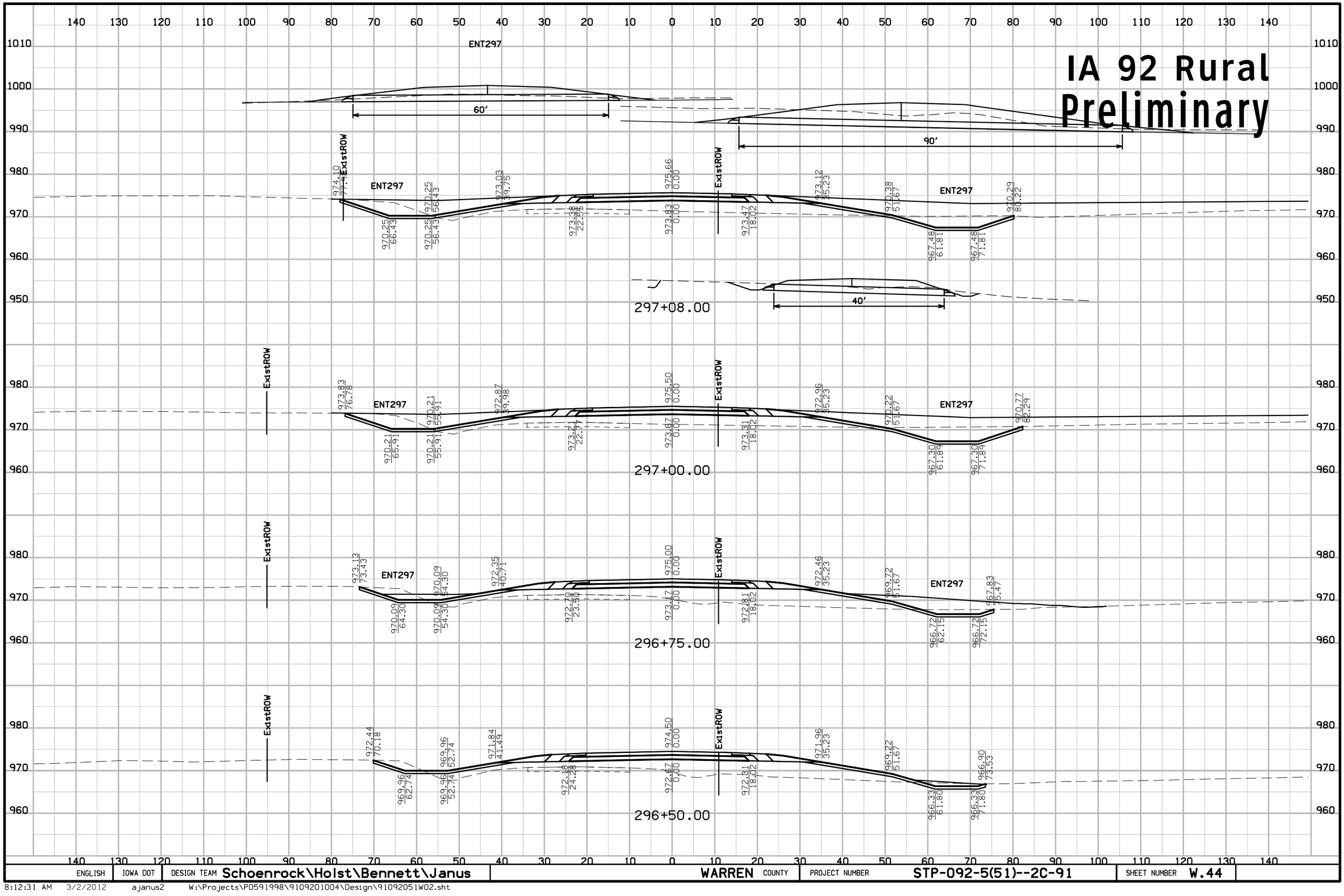
IA 92 Rural
Preliminary



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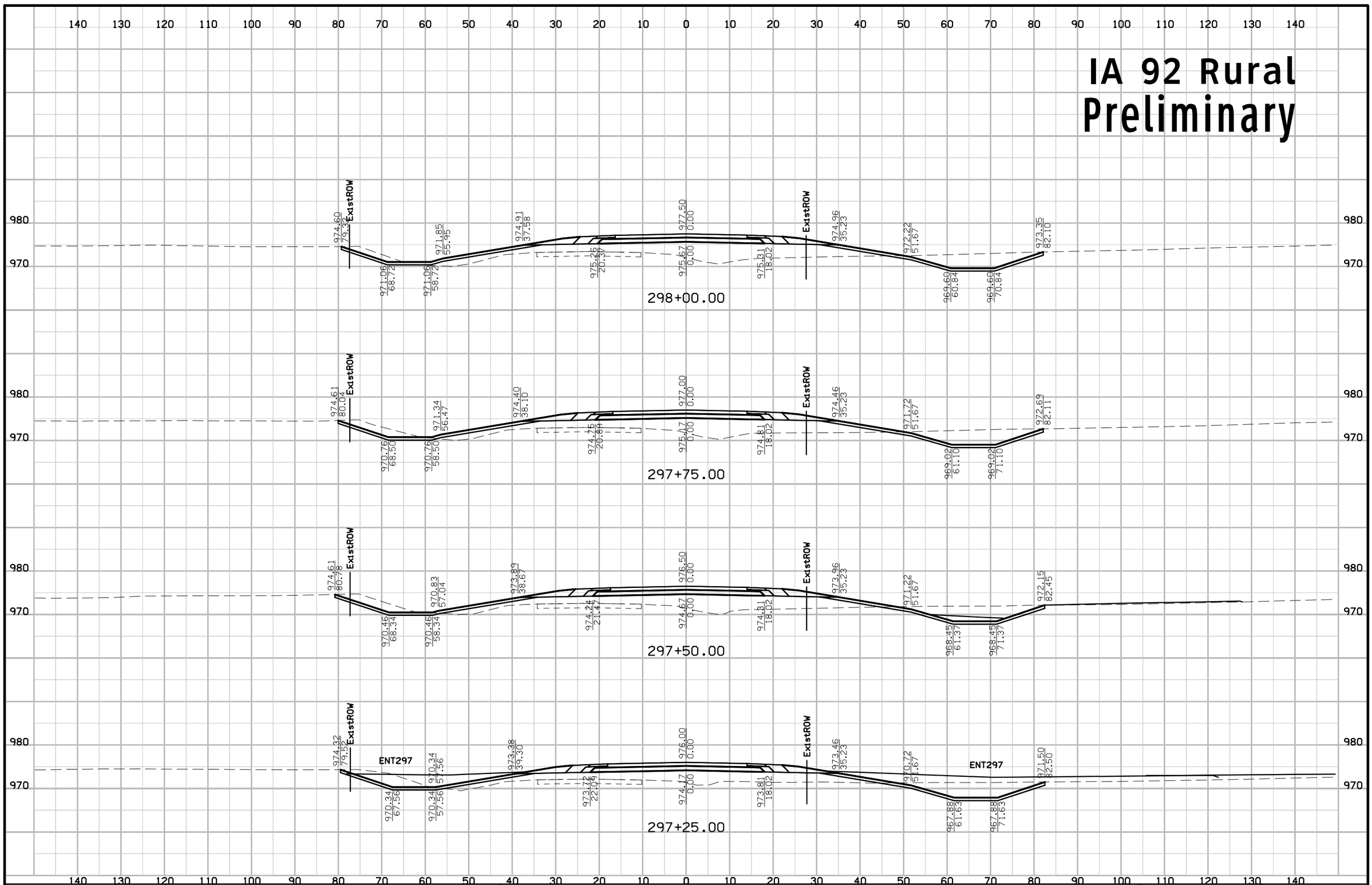
IA 92 Rural
Preliminary



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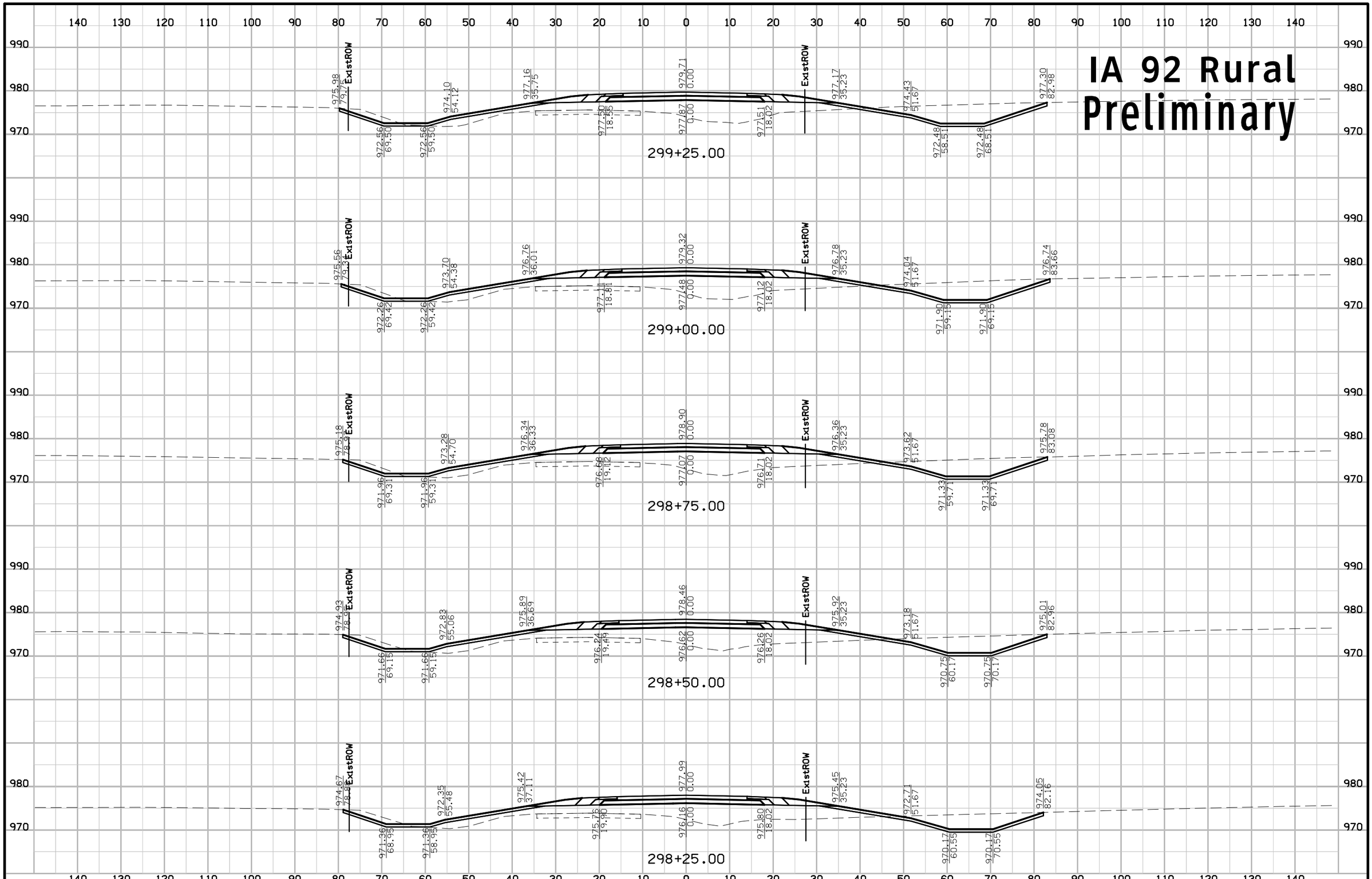
IA 92 Rural
Preliminary



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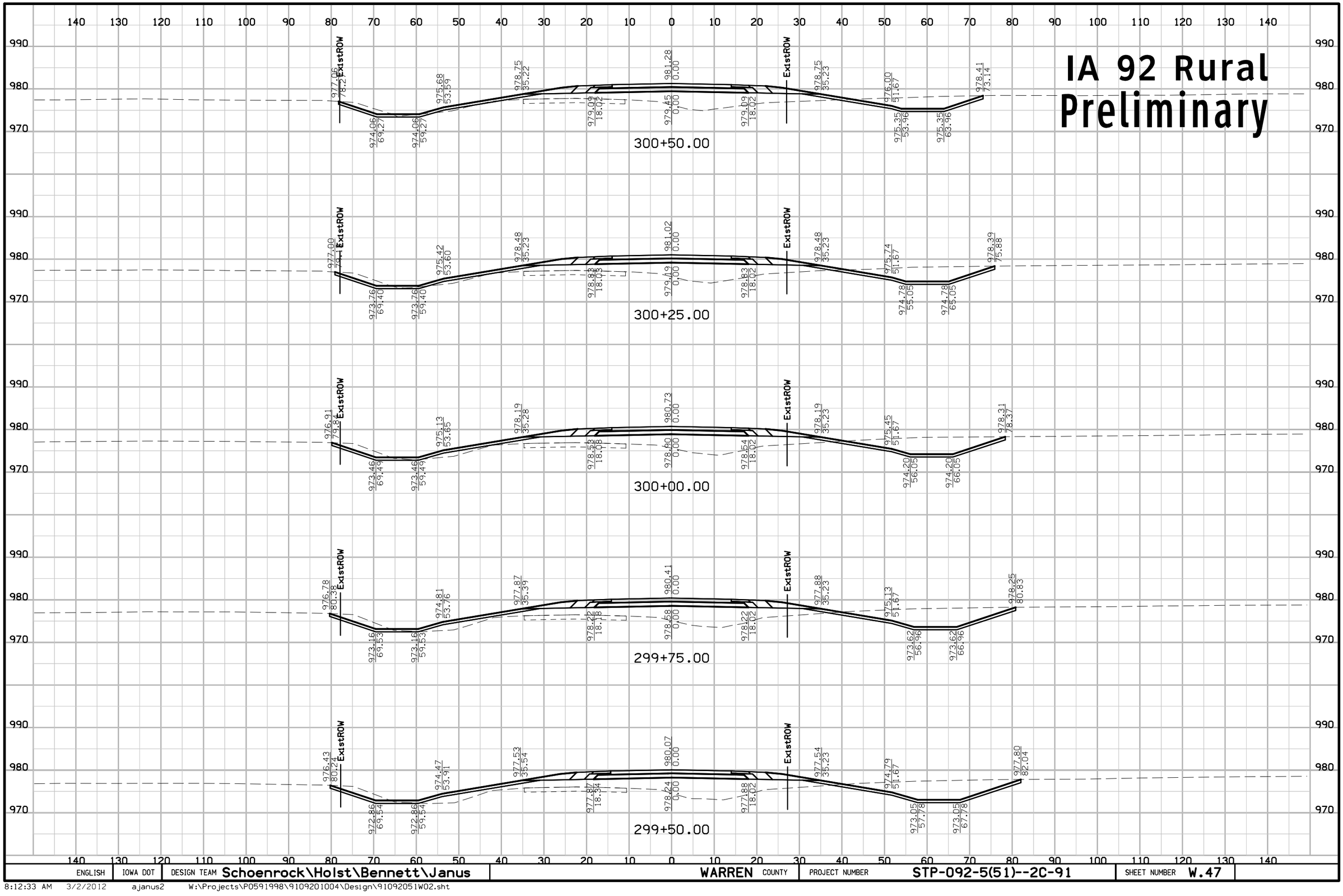
IA 92 Rural
Preliminary



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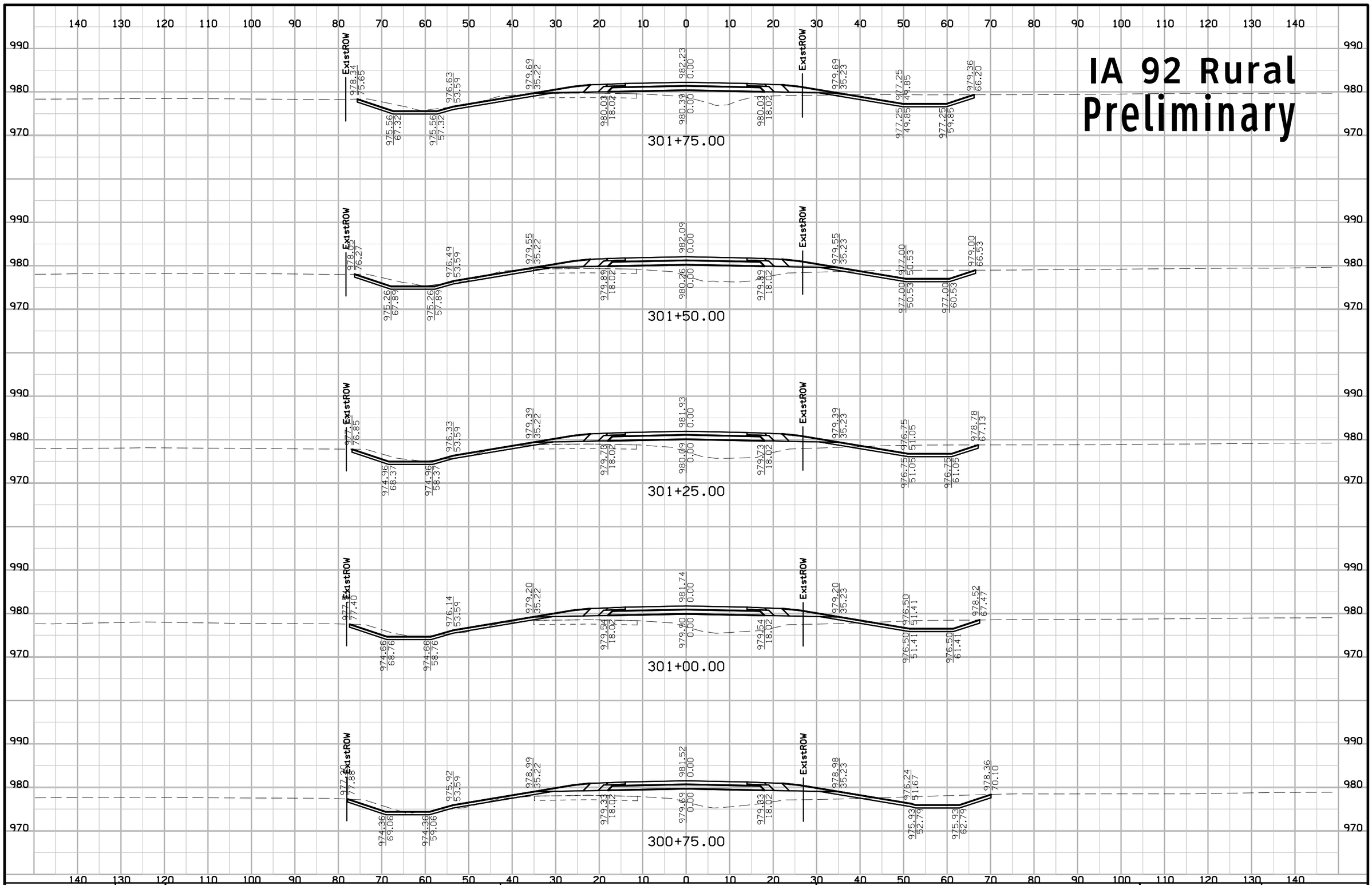
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.48

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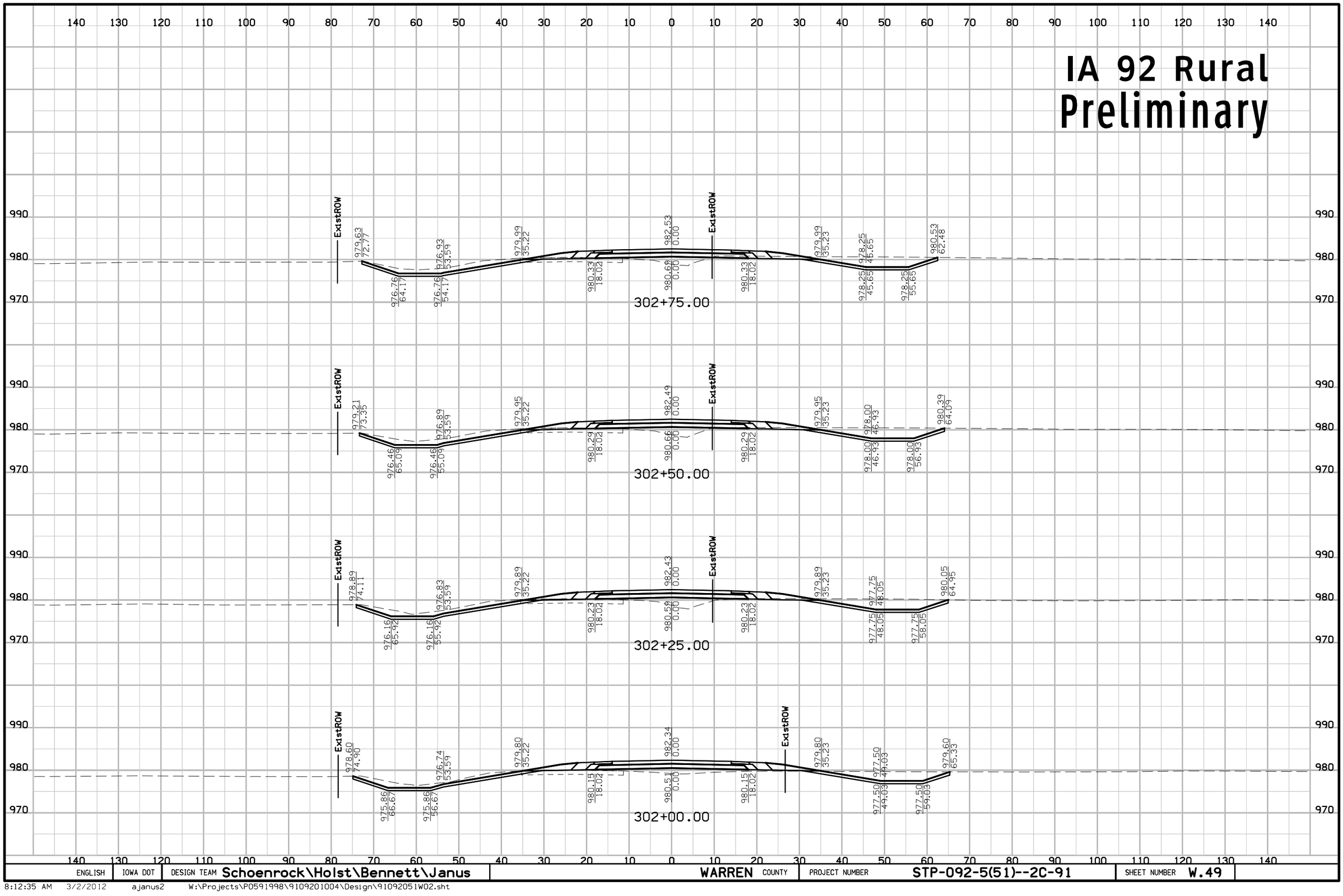
IA 92 Rural
Preliminary



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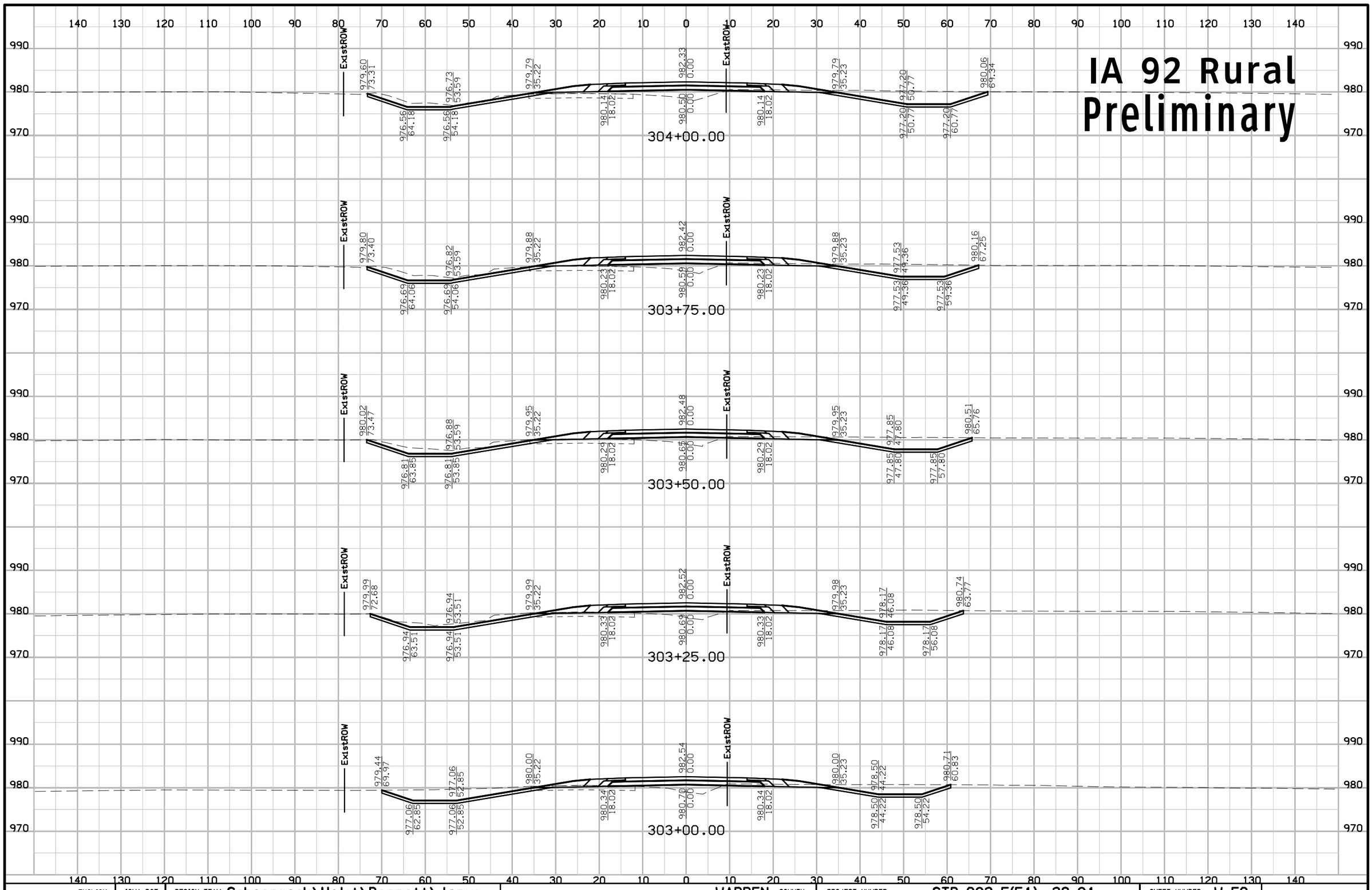
IA 92 Rural
Preliminary



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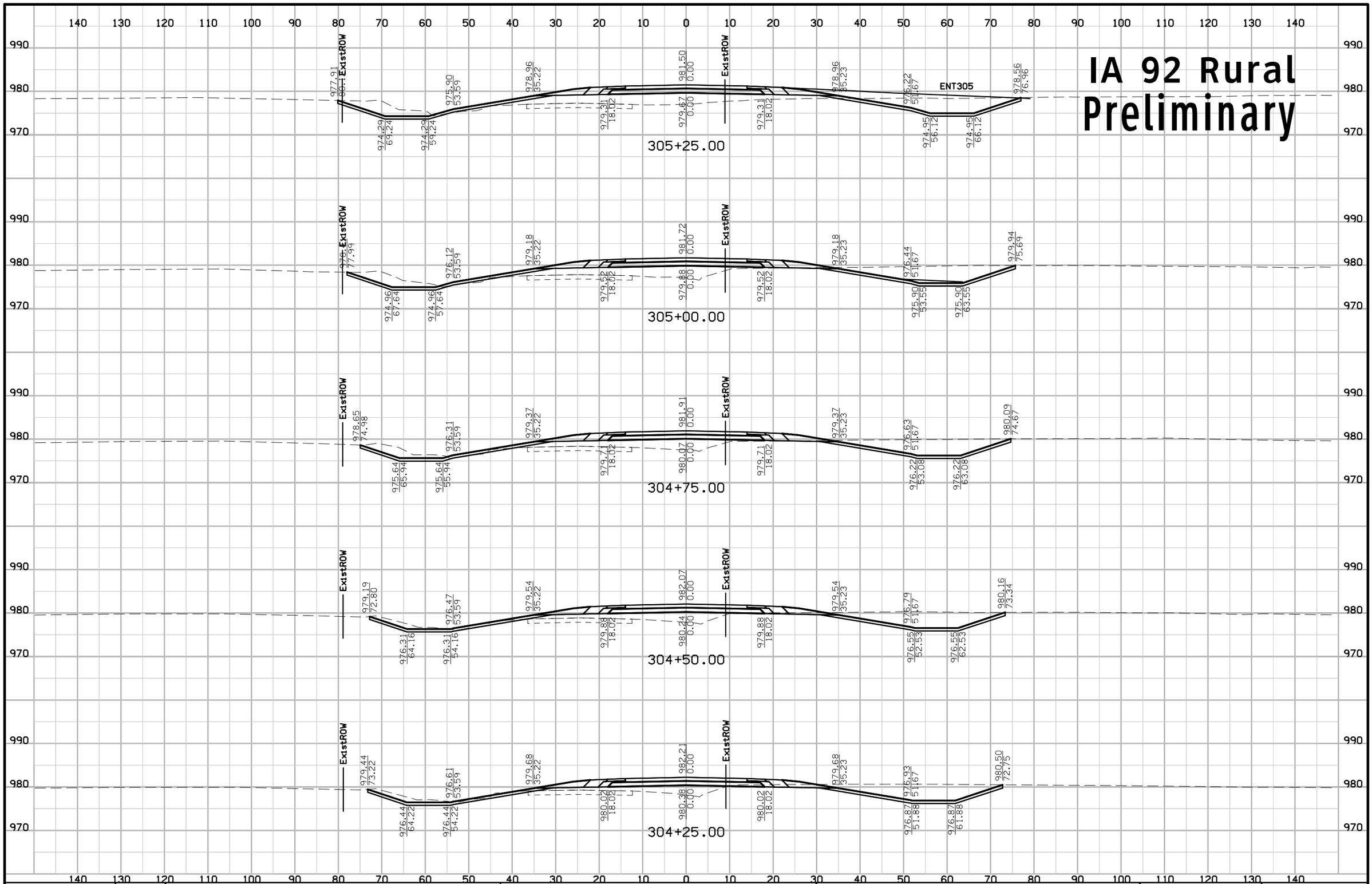
IA 92 Rural
Preliminary



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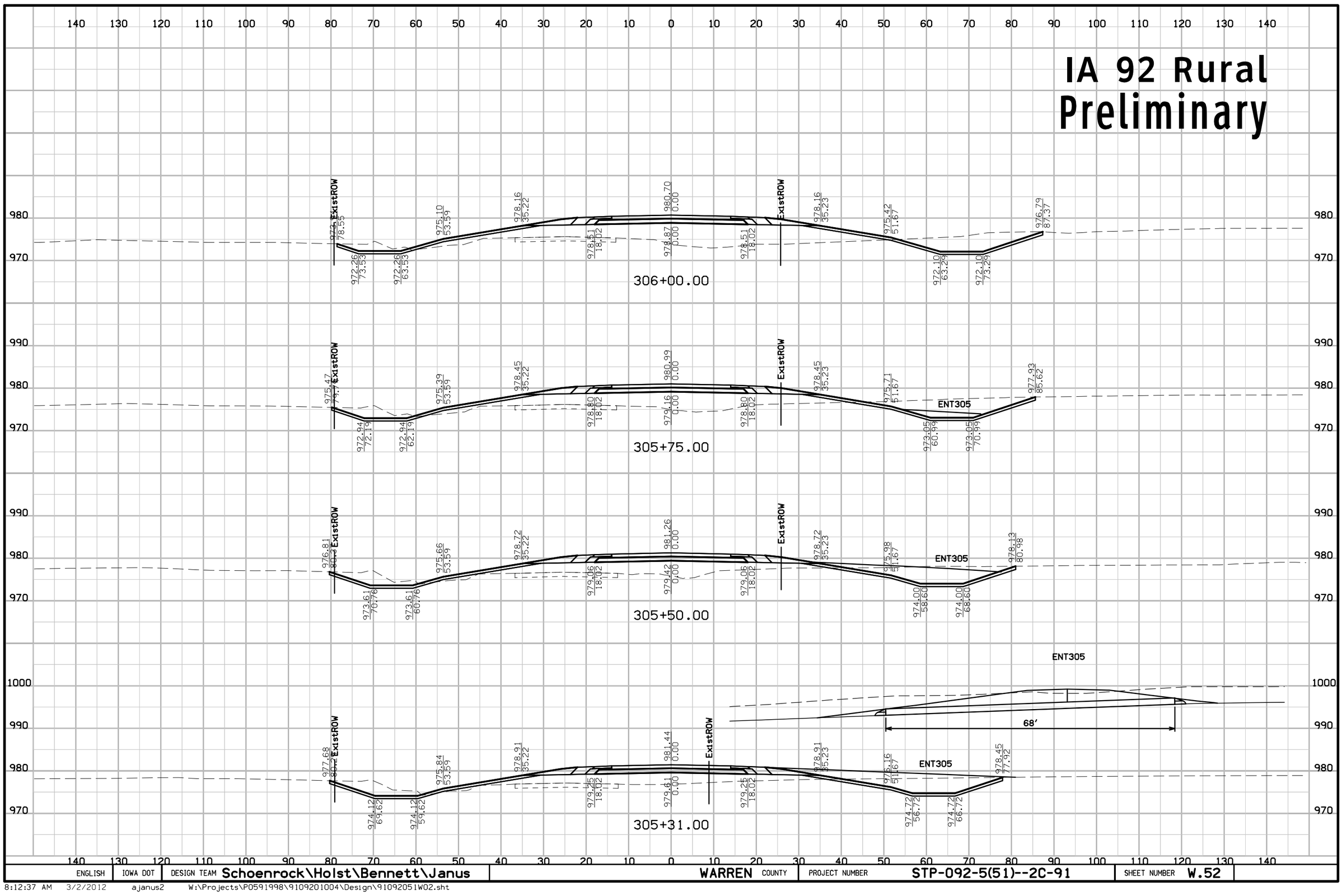
IA 92 Rural
Preliminary



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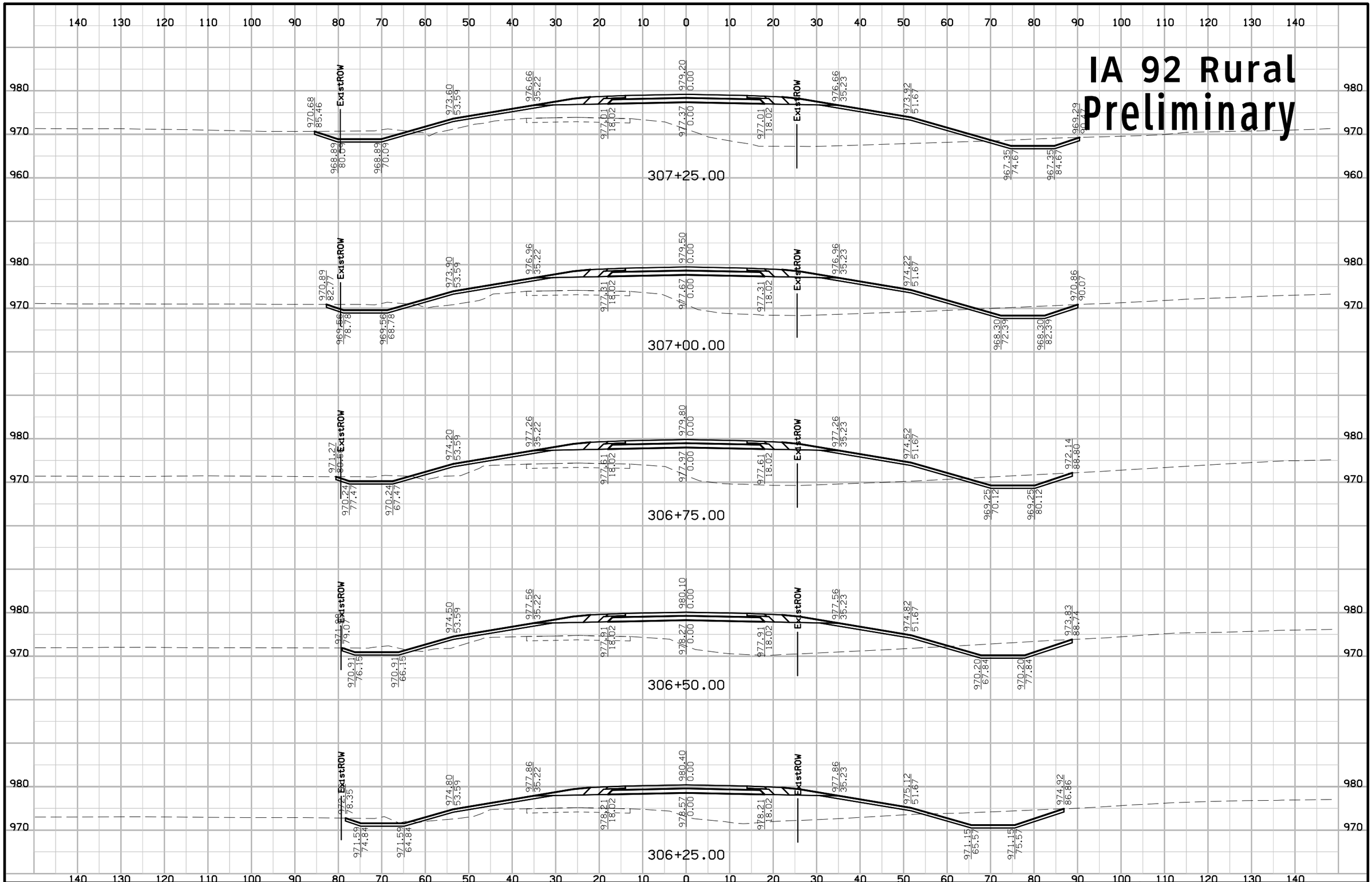
IA 92 Rural
Preliminary



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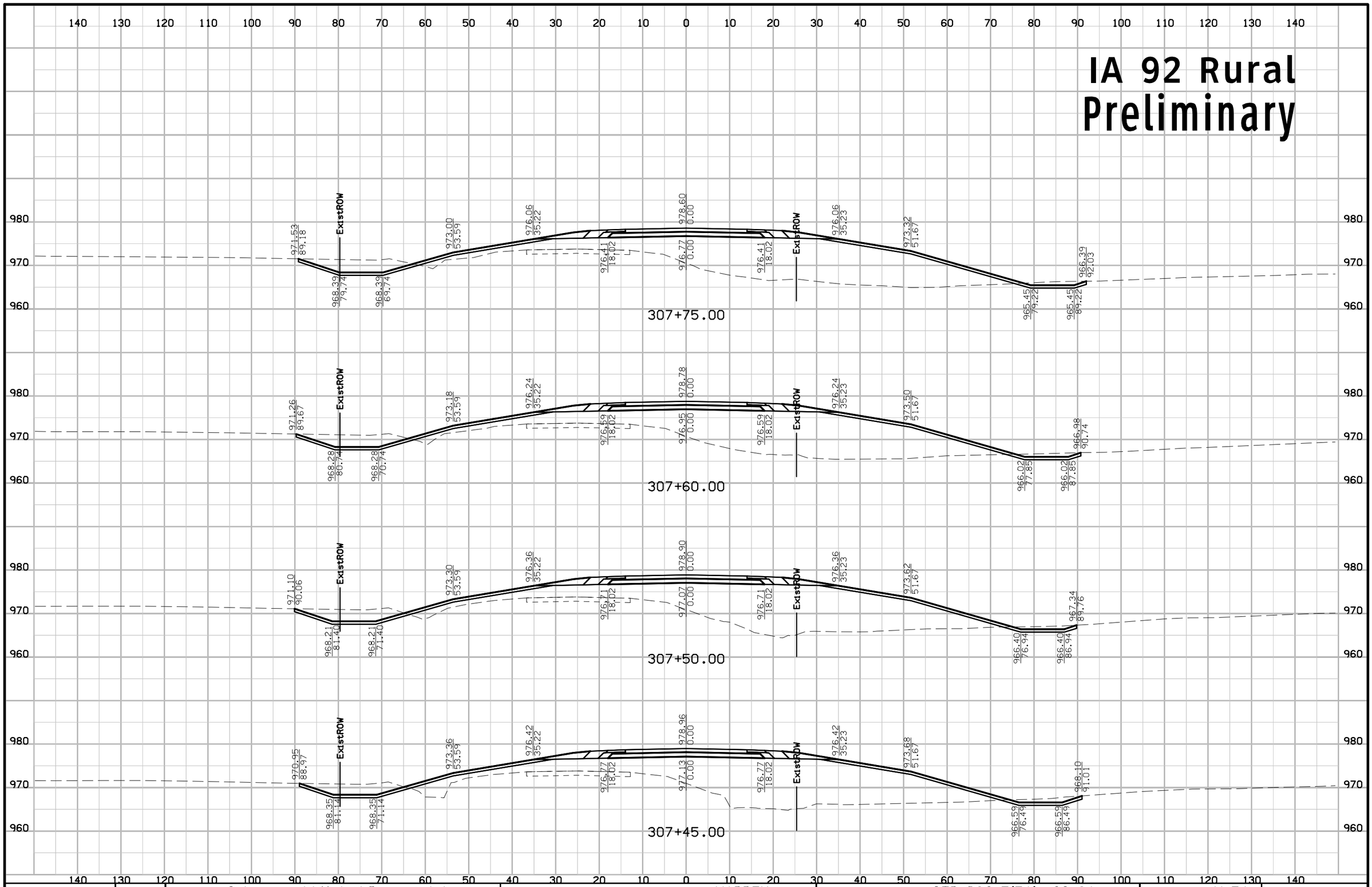
IA 92 Rural
Preliminary



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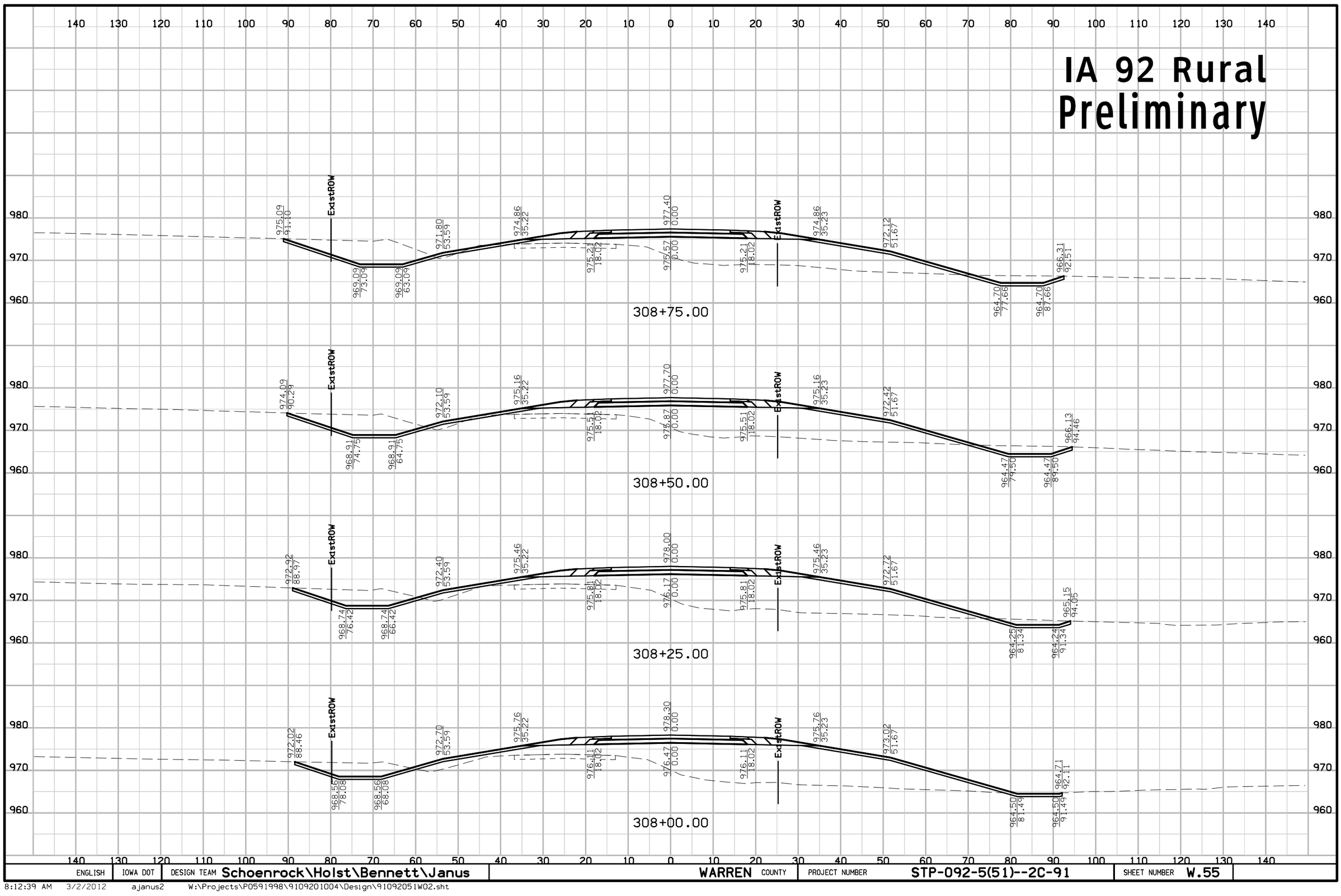
IA 92 Rural
Preliminary



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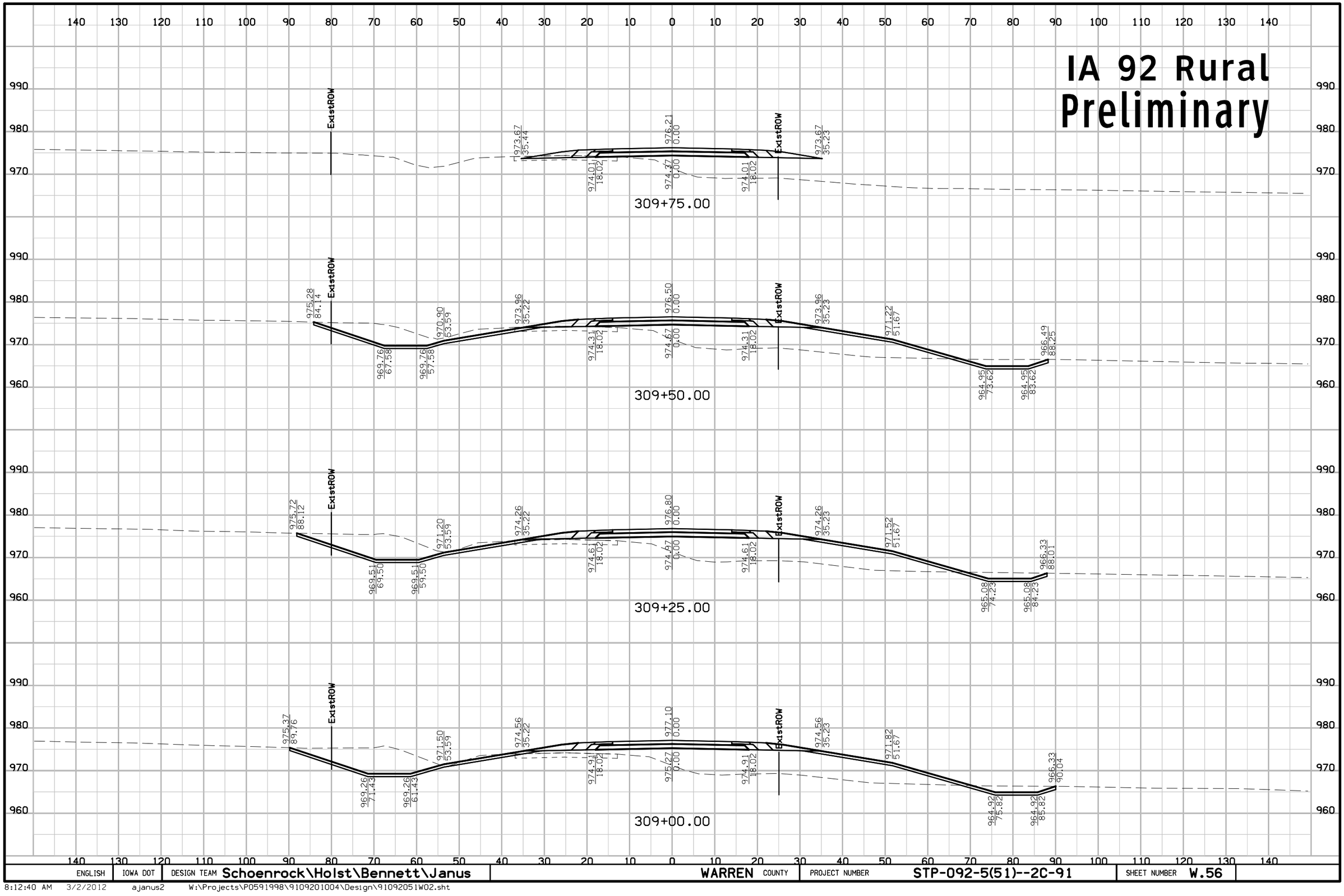
IA 92 Rural Preliminary



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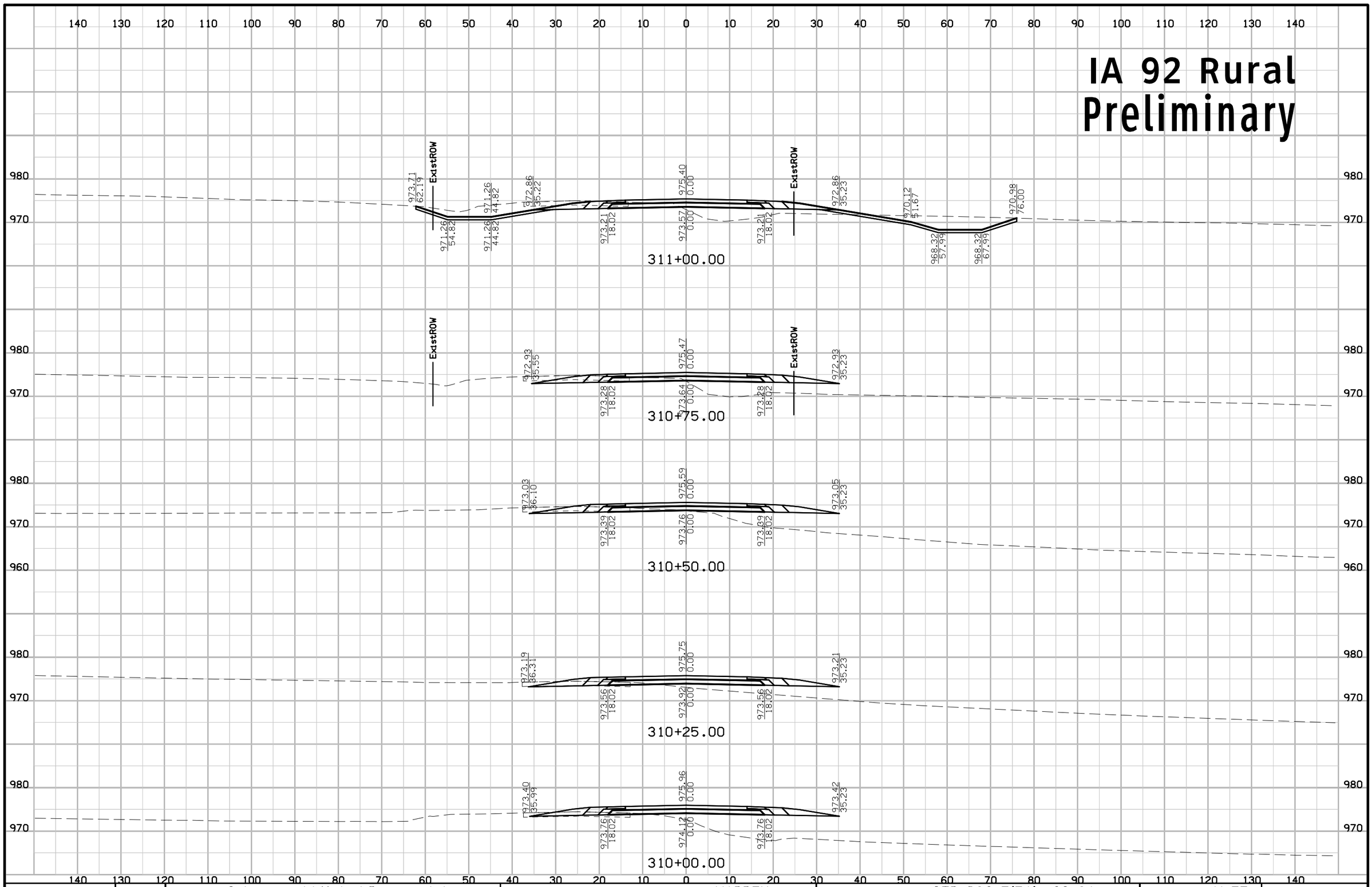
IA 92 Rural
Preliminary



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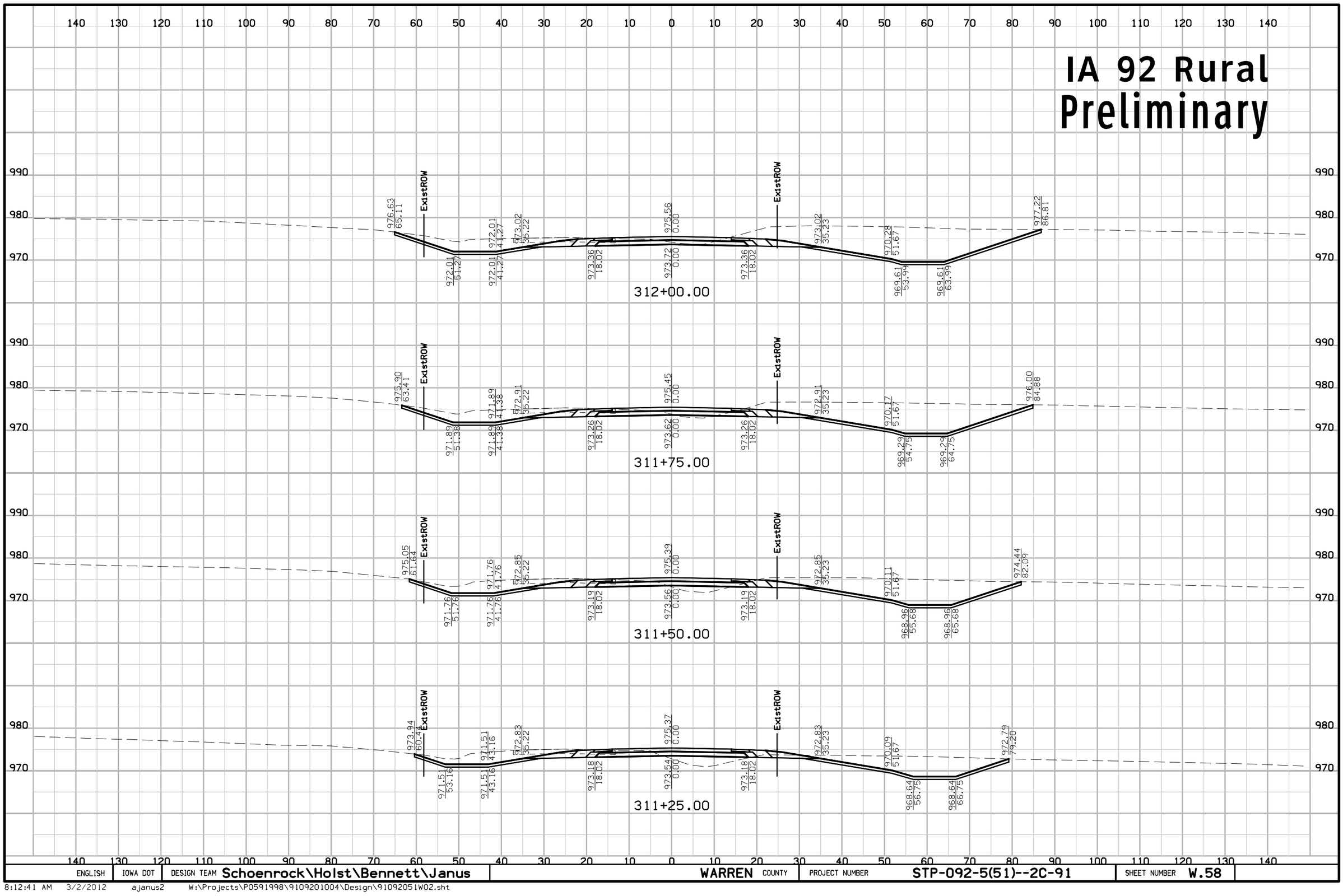
IA 92 Rural
Preliminary



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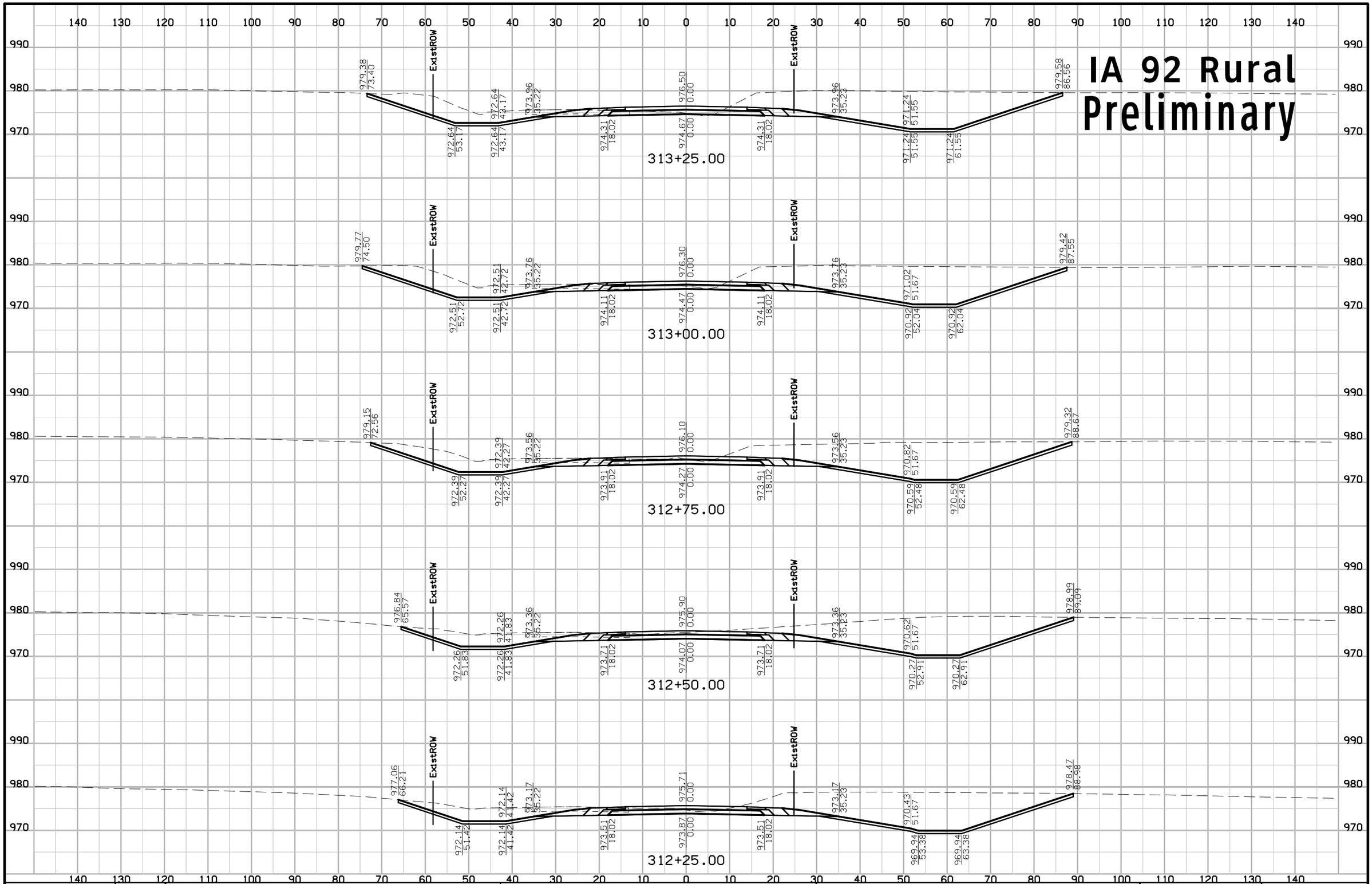
IA 92 Rural
Preliminary



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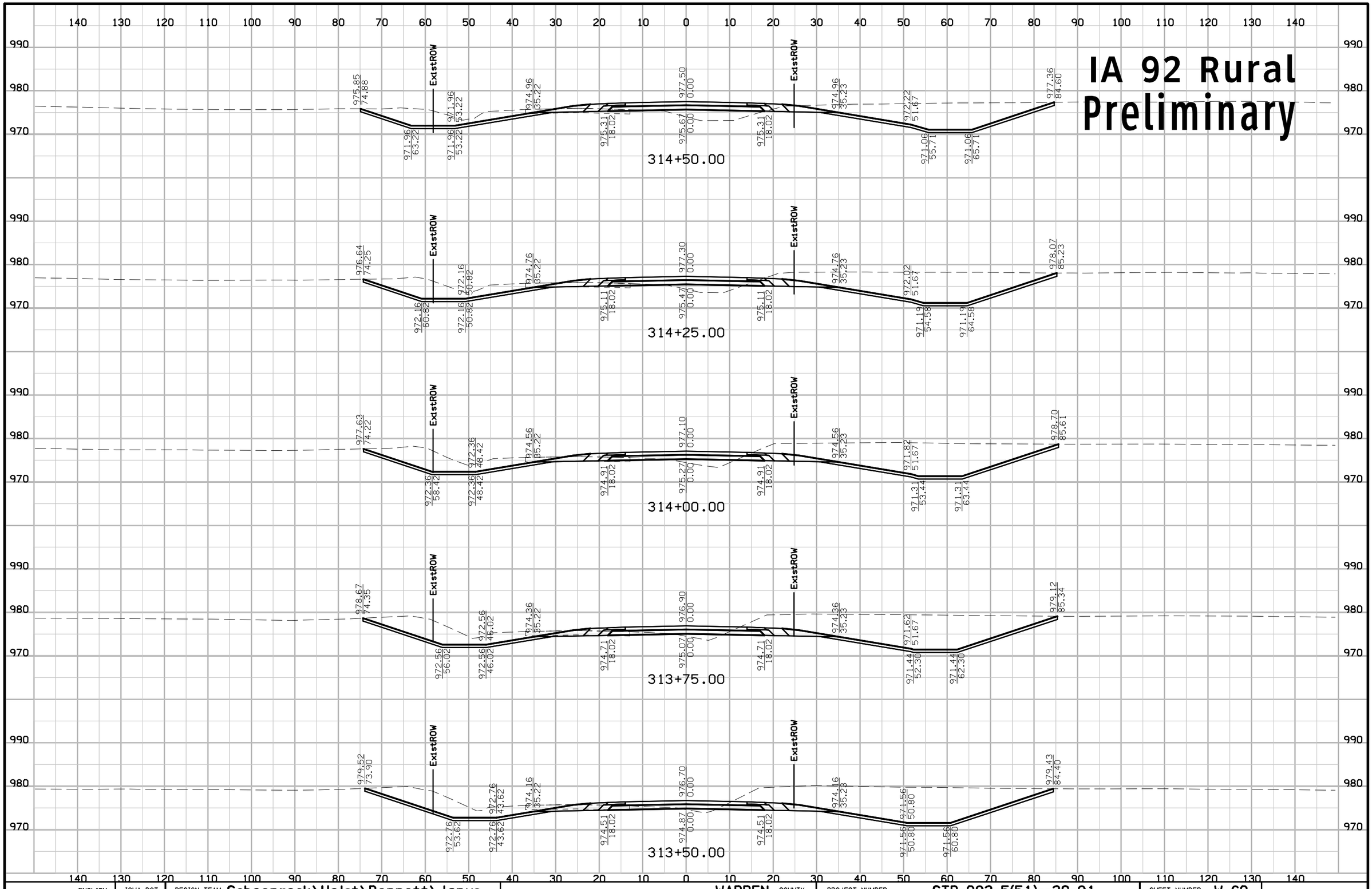
IA 92 Rural
Preliminary



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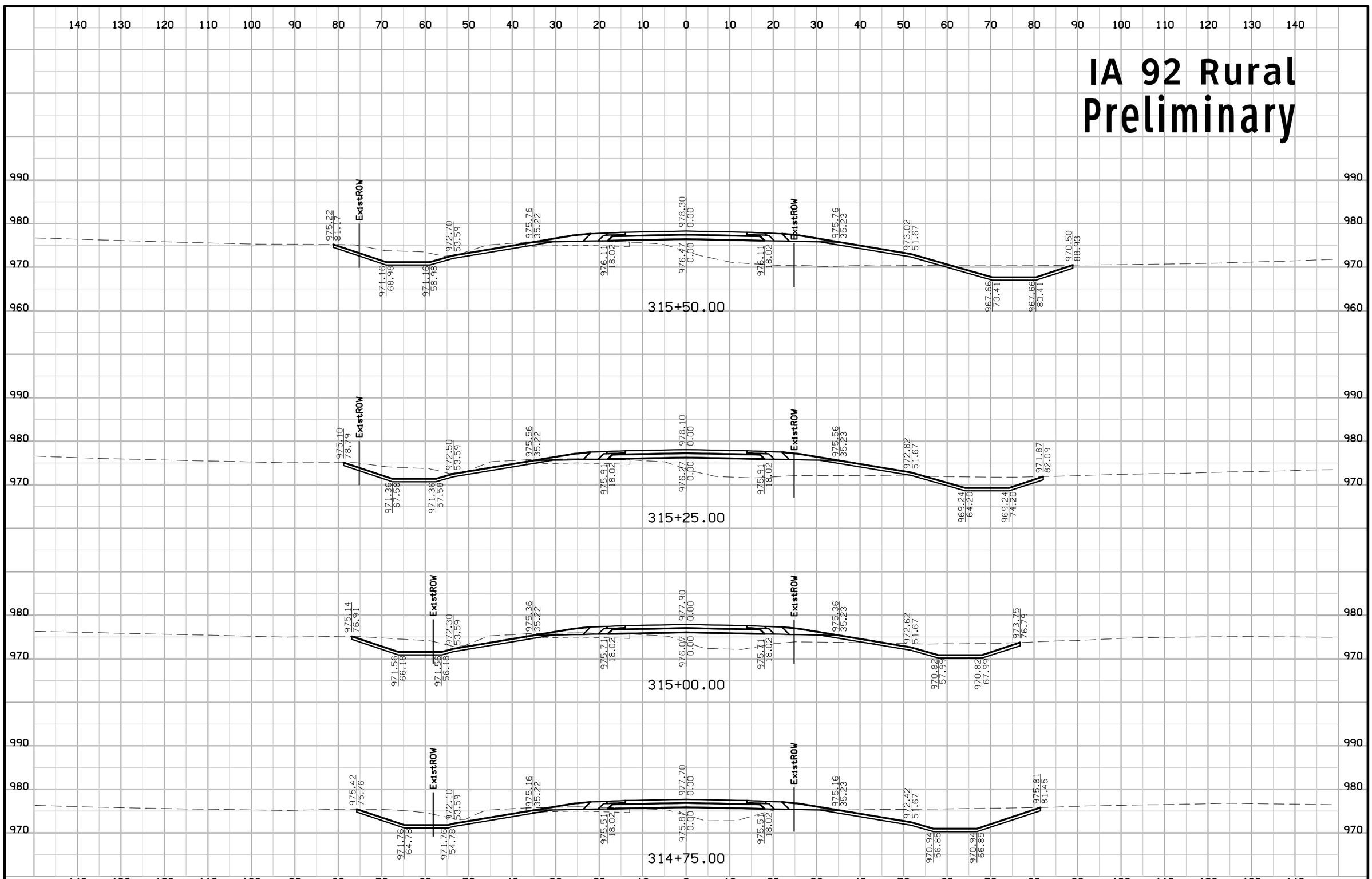
IA 92 Rural
Preliminary



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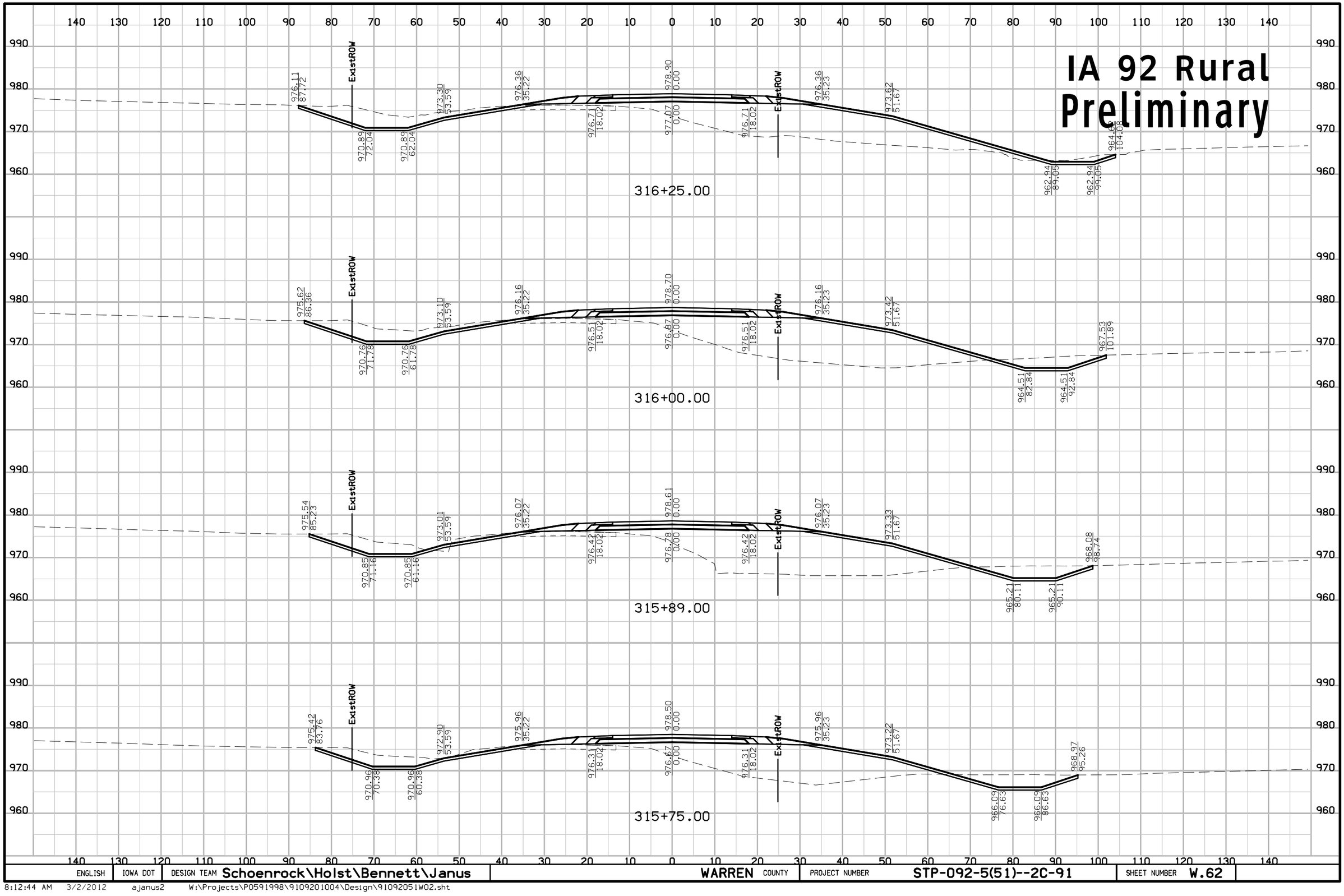
IA 92 Rural Preliminary



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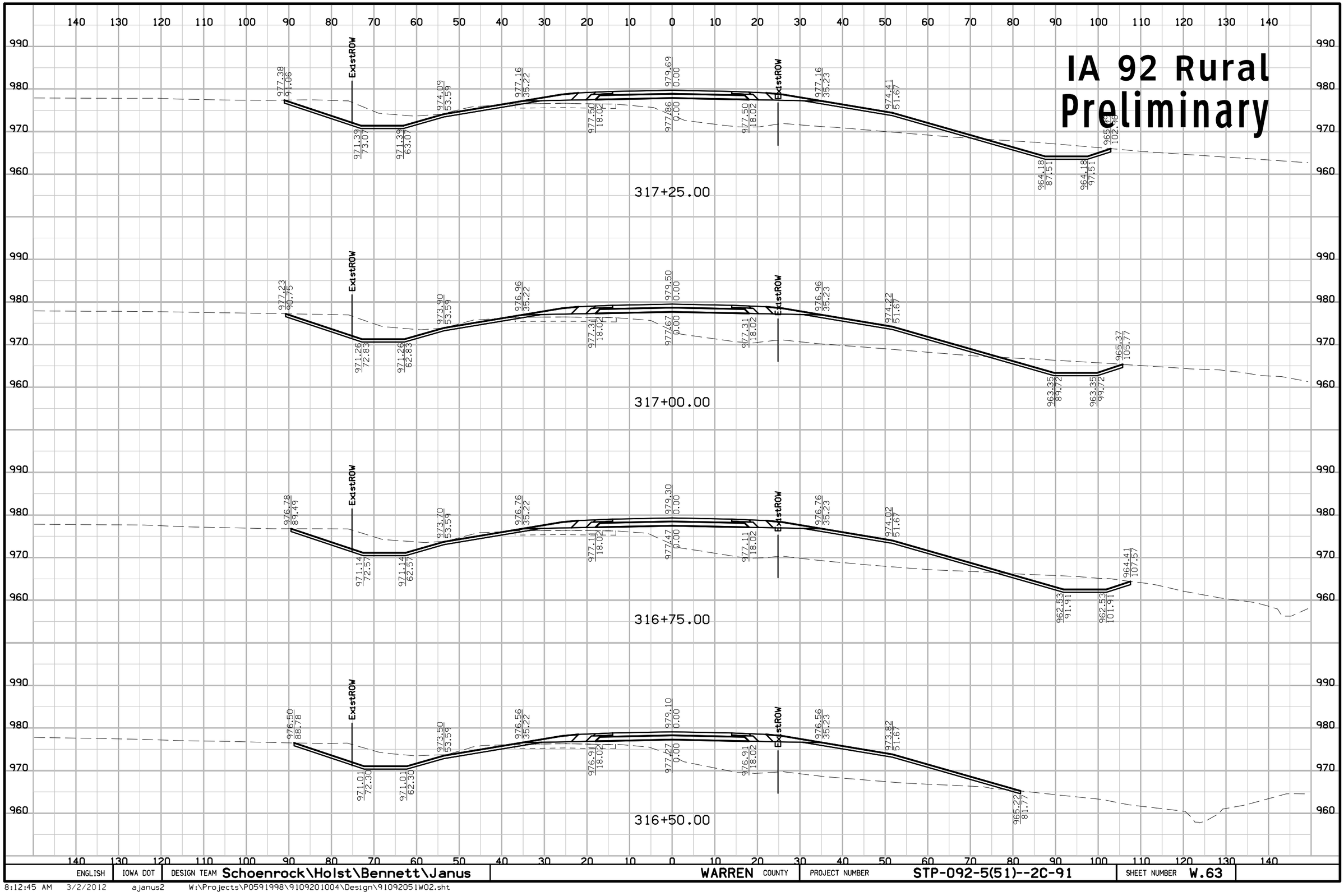
IA 92 Rural Preliminary



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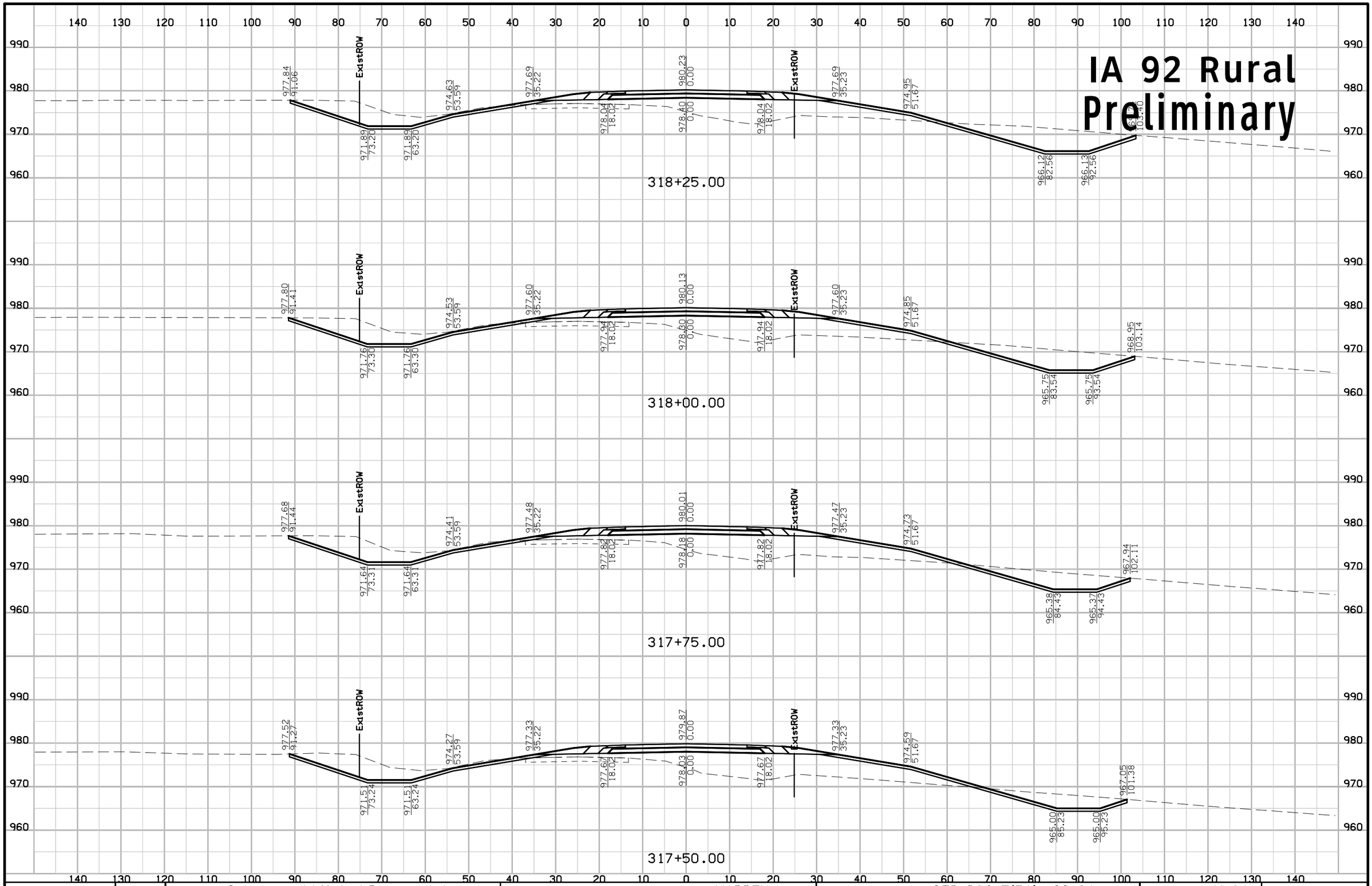
IA 92 Rural Preliminary



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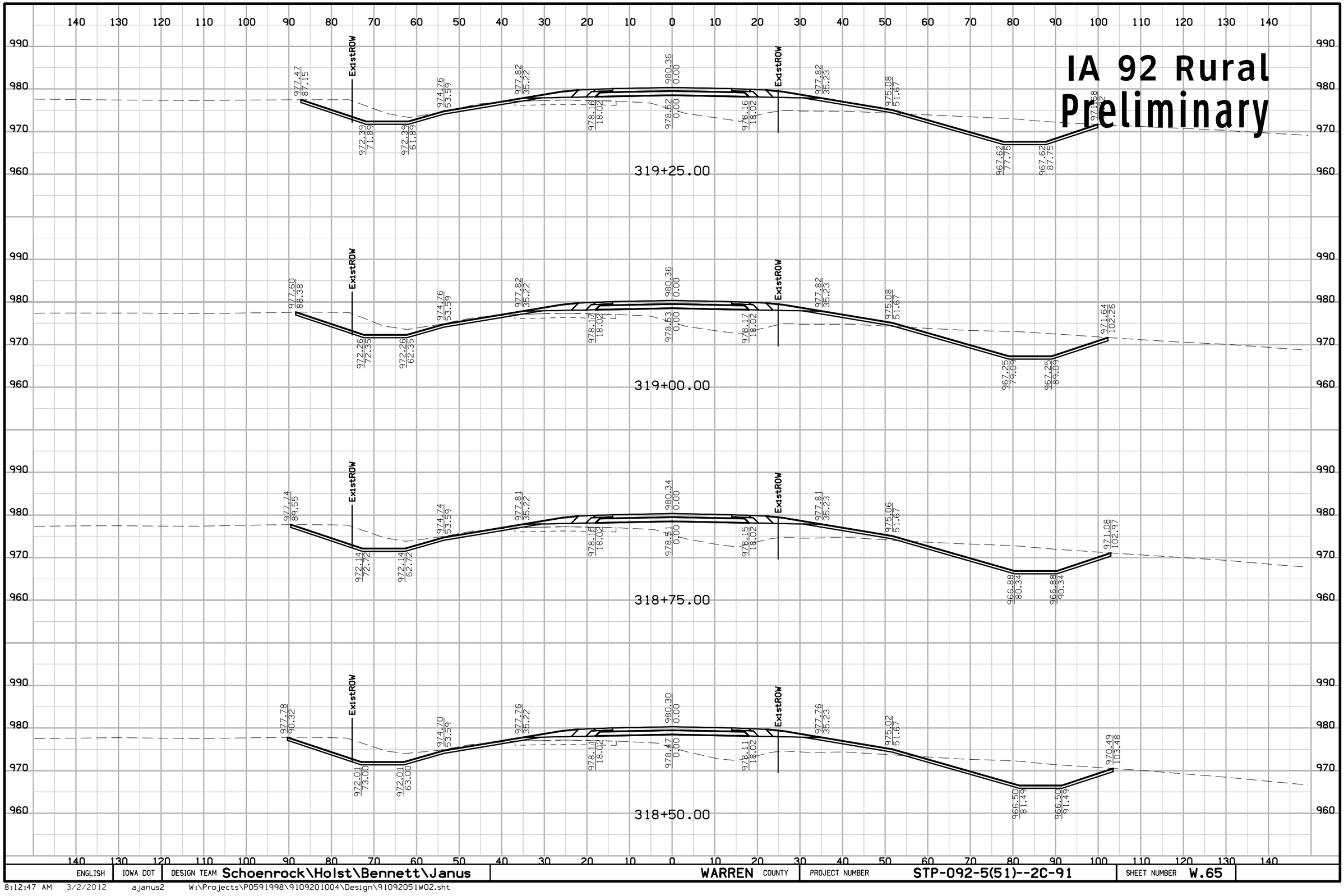
IA 92 Rural
Preliminary



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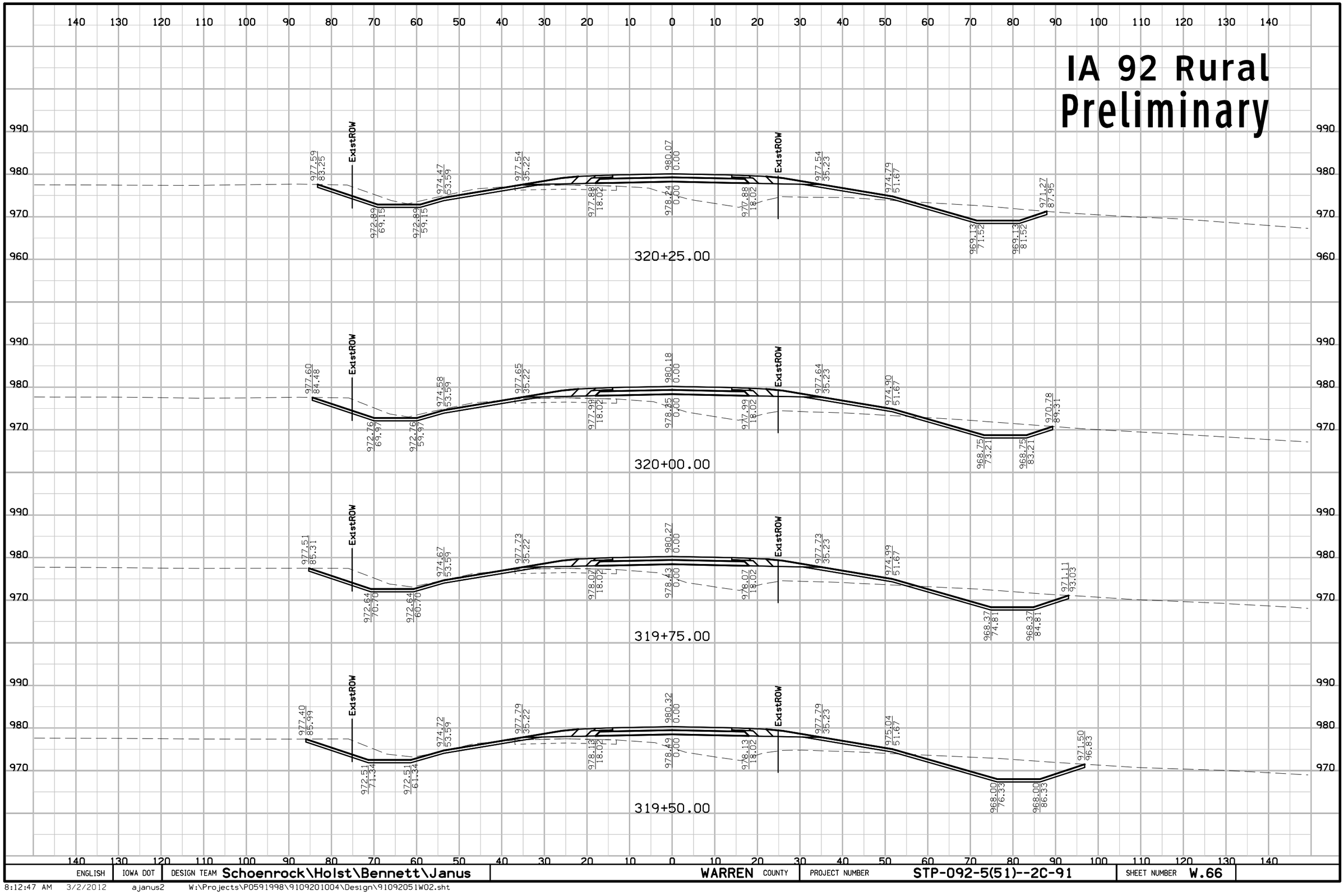
IA 92 Rural
Preliminary



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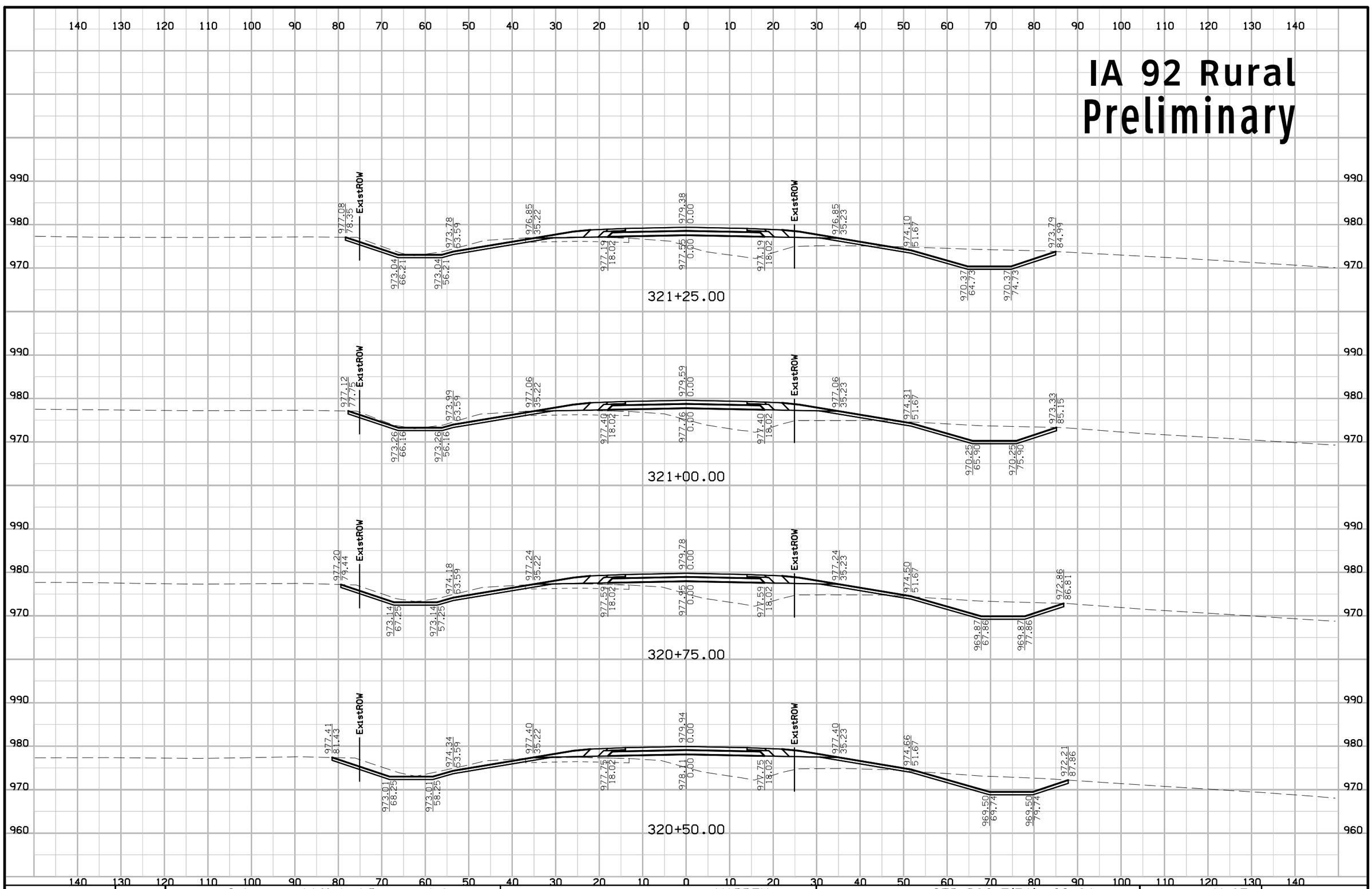
IA 92 Rural
Preliminary



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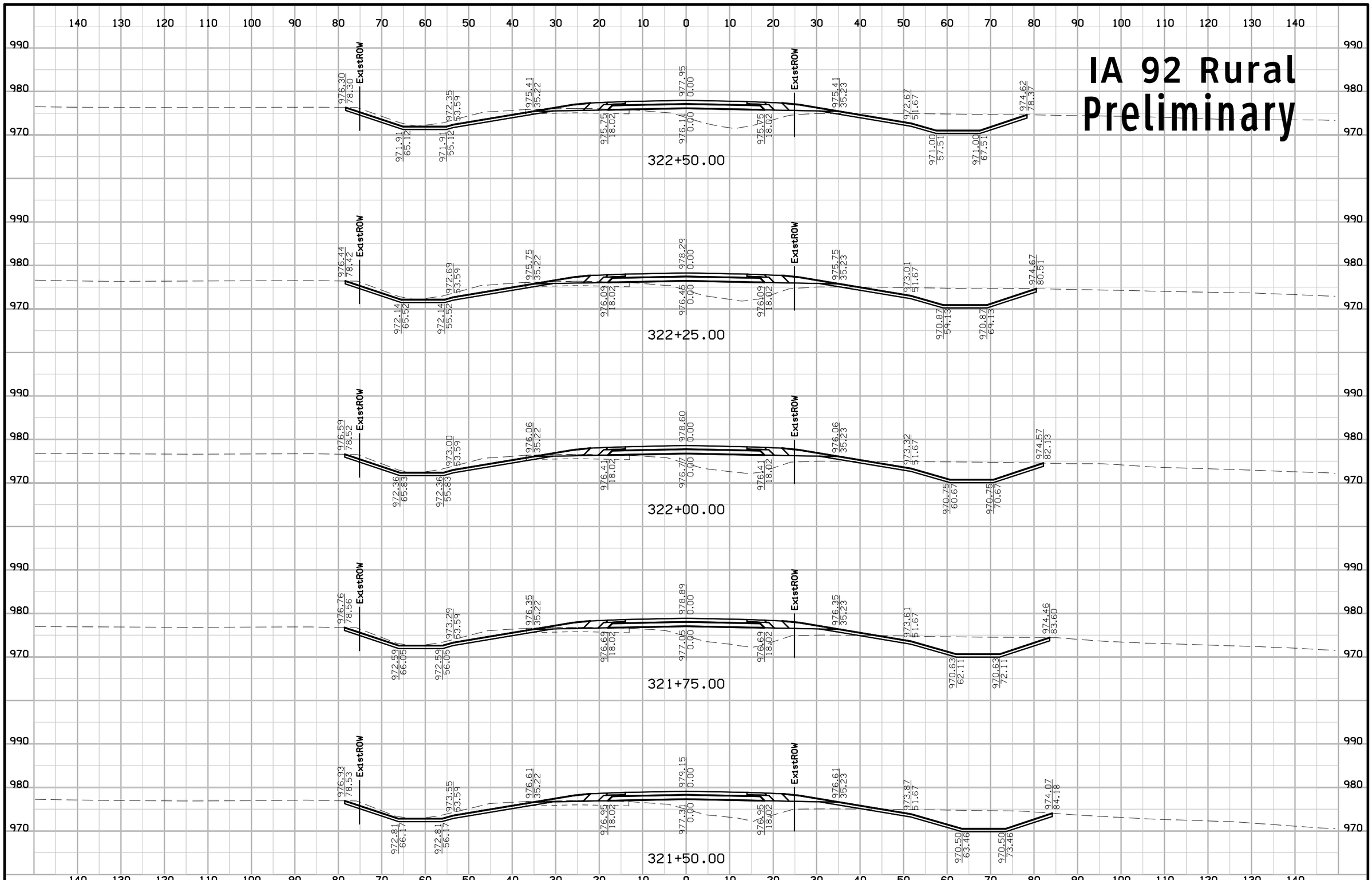
IA 92 Rural Preliminary



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IA 92 Rural
Preliminary

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

990
980
970

ExistROW

975.68
79.58

ENT323

970.56
64.22

970.74
53.59

970.56
54.22

973.80
35.22

974.15
18.02

976.34
0.00

974.51
0.00

974.15
18.02

ExistROW

973.80
35.23

971.50
44.03

ENT323

971.50
59.03

973.82
66.01

323+50.00

990
980
970

ExistROW

976.11
79.48

ENT323

971.01
64.19

971.18
53.59

971.01
54.19

974.24
35.22

974.59
18.02

976.78
0.00

974.95
0.00

974.59
18.02

ExistROW

974.24
35.23

971.50
51.67

ENT323

971.38
62.11

973.99
69.95

323+25.00

990
980
970

ExistROW

976.11
78.00

971.46
64.06

971.59
53.59

971.46
54.06

974.66
35.22

975.00
18.02

977.19
0.00

975.36
0.00

975.00
18.02

ExistROW

974.66
35.23

971.91
51.67

971.25
54.00

974.34
73.28

971.25
64.00

323+00.00

990
980
970

ExistROW

976.20
78.19

971.69
64.64

971.98
53.59

971.69
54.64

975.05
35.22

975.39
18.02

977.58
0.00

975.75
0.00

975.39
18.02

ExistROW

975.05
35.23

972.30
51.67

971.12
55.80

974.61
76.26

971.12
65.80

322+75.00

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 Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.69

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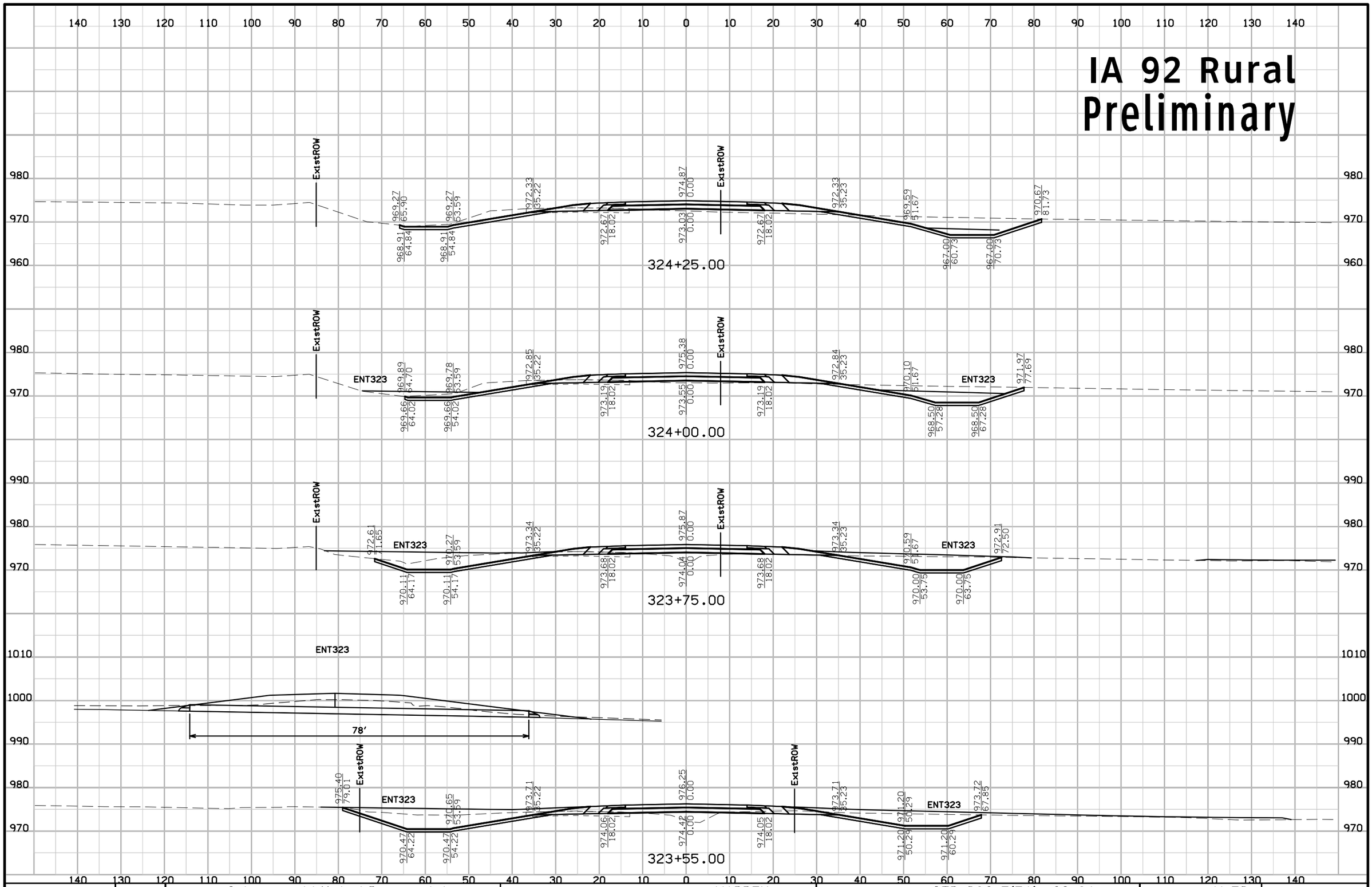
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.70

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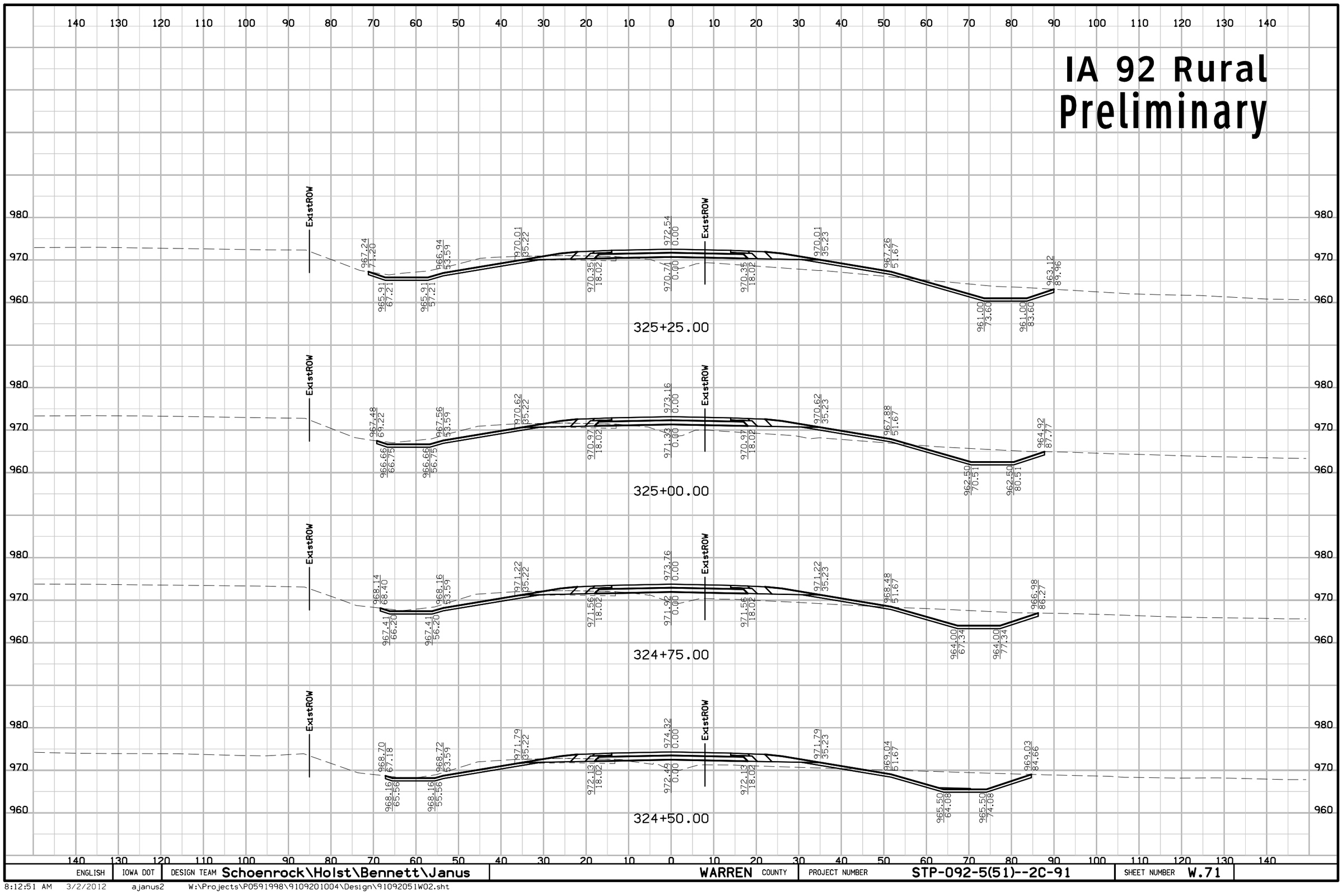
IA 92 Rural
Preliminary



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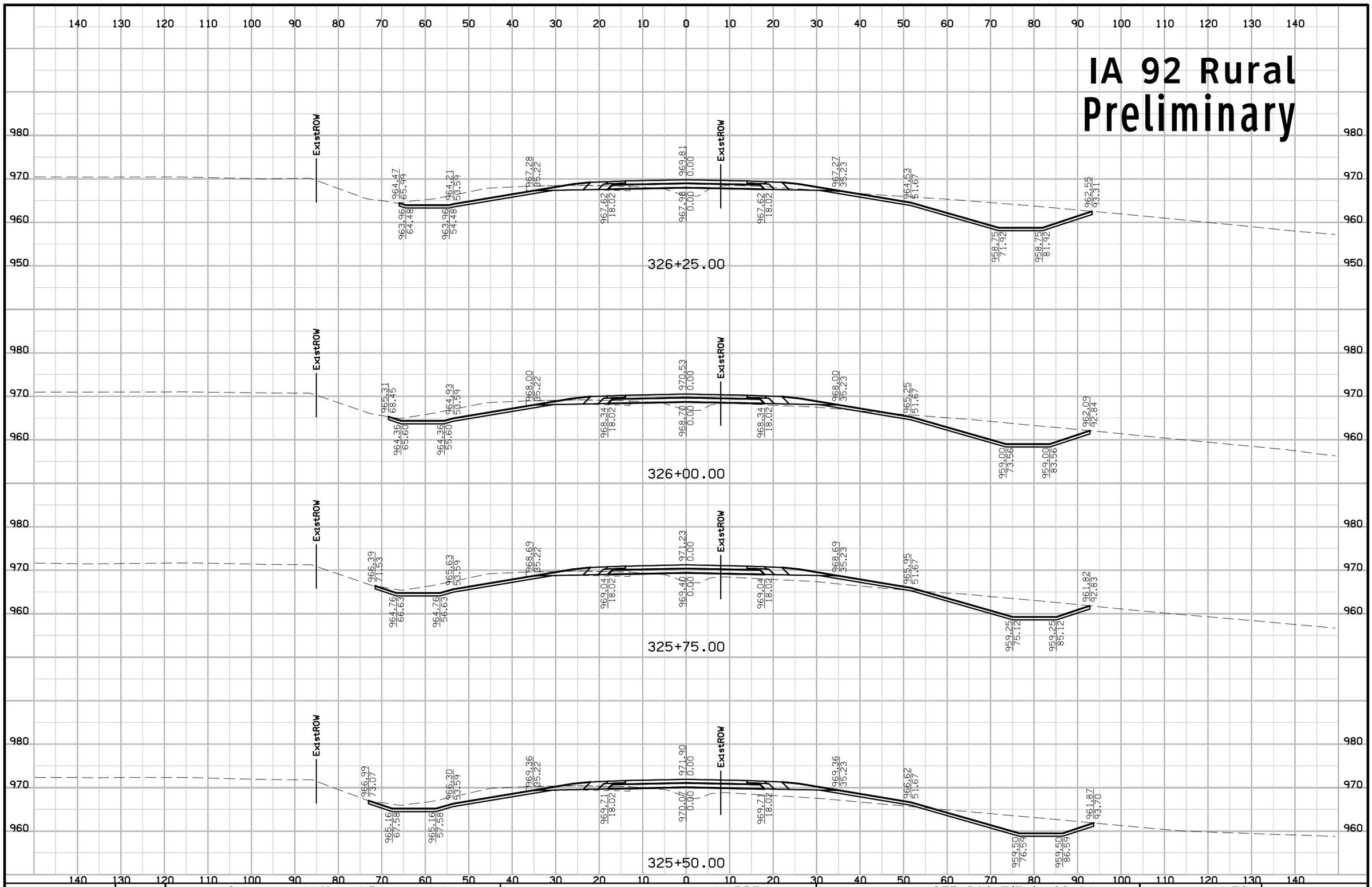
IA 92 Rural
Preliminary



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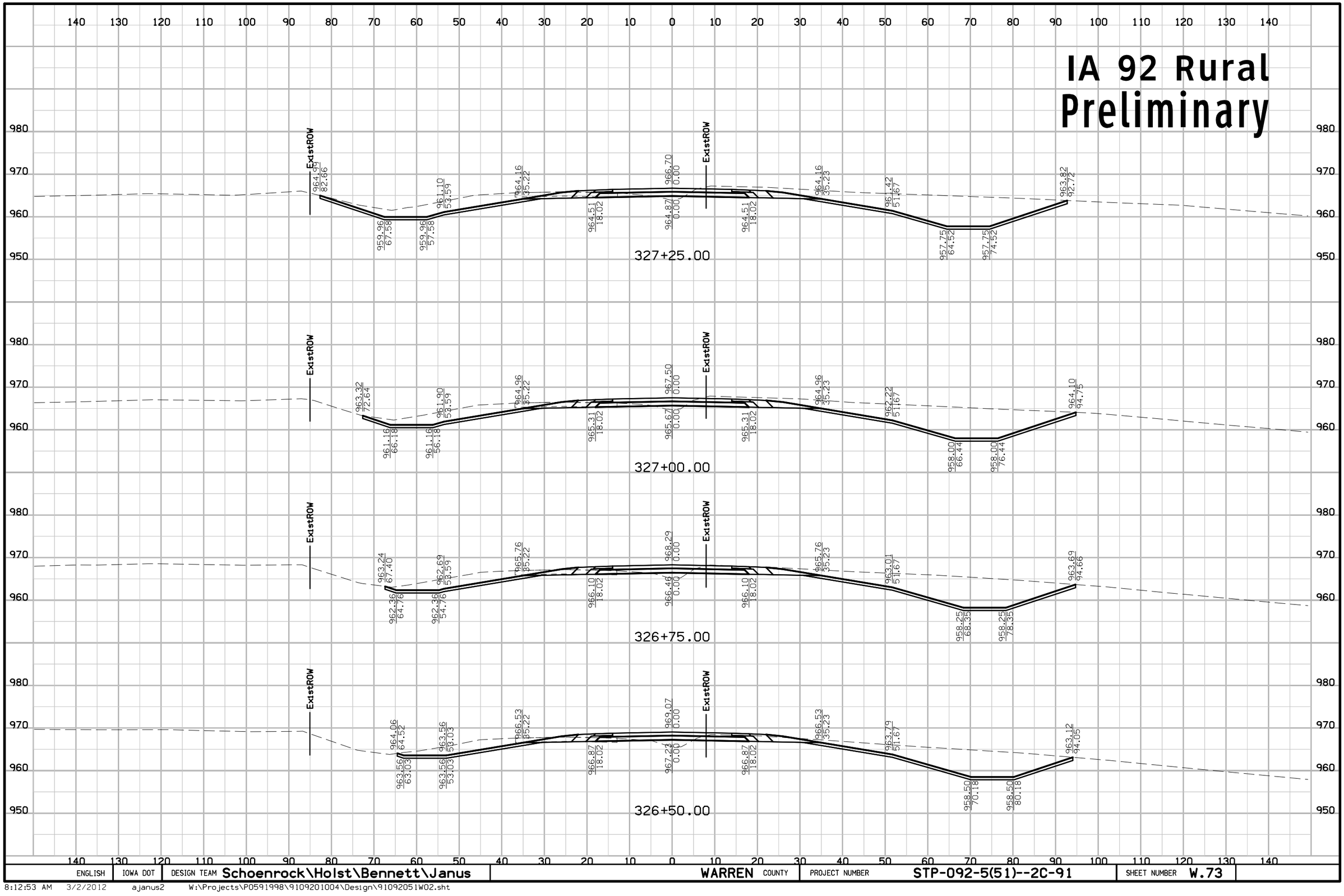
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.73

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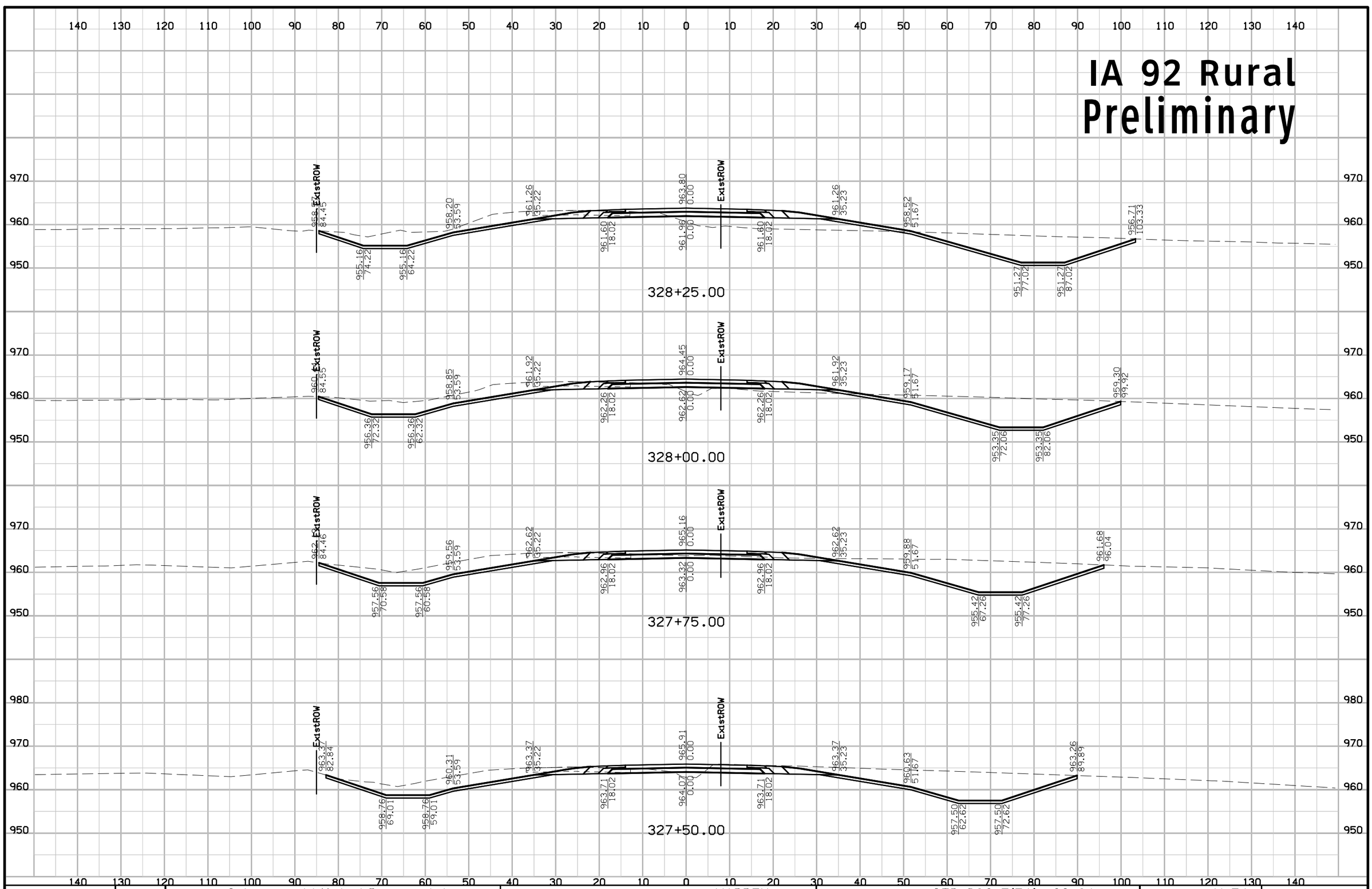
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.74

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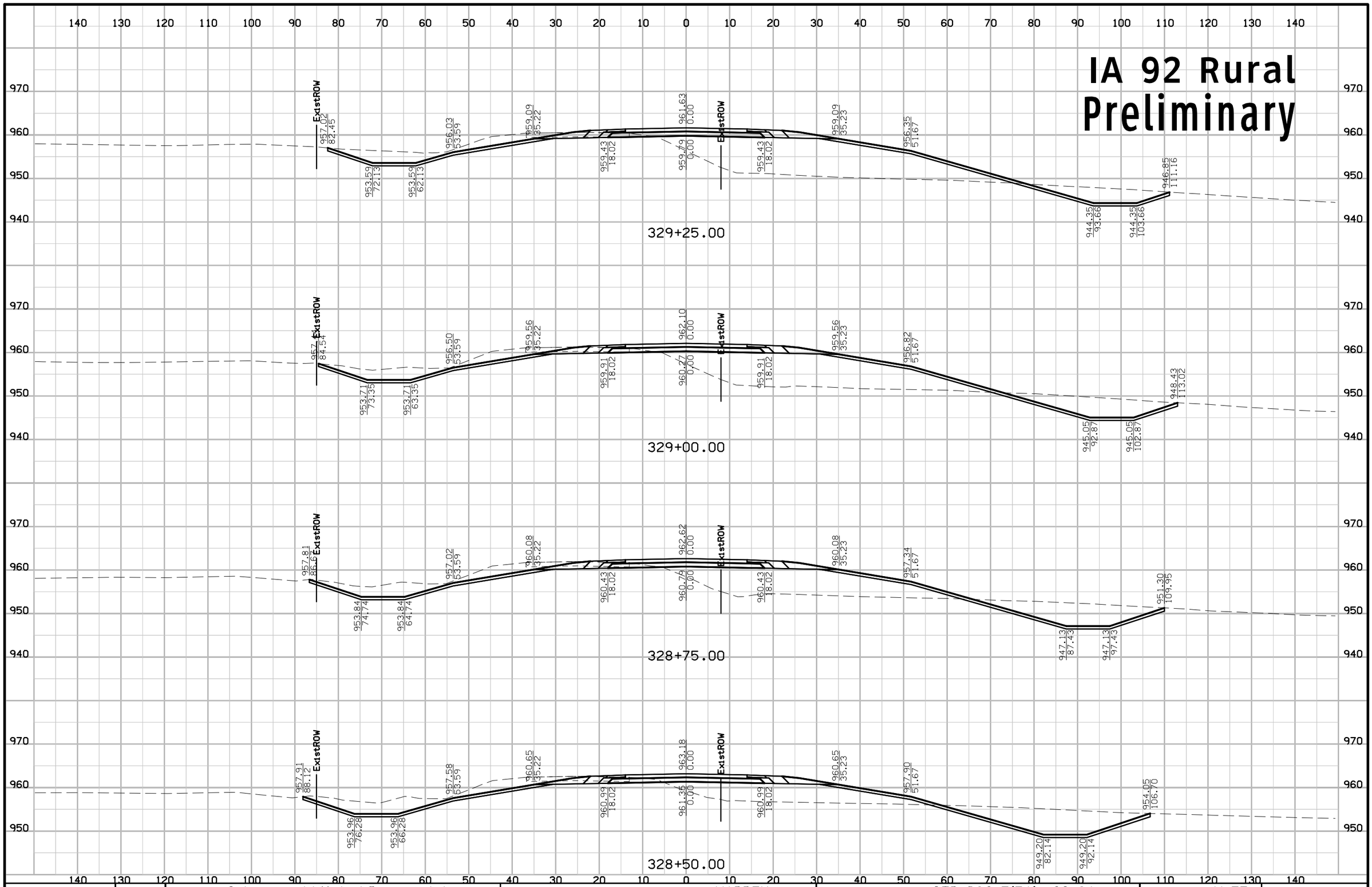
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.75

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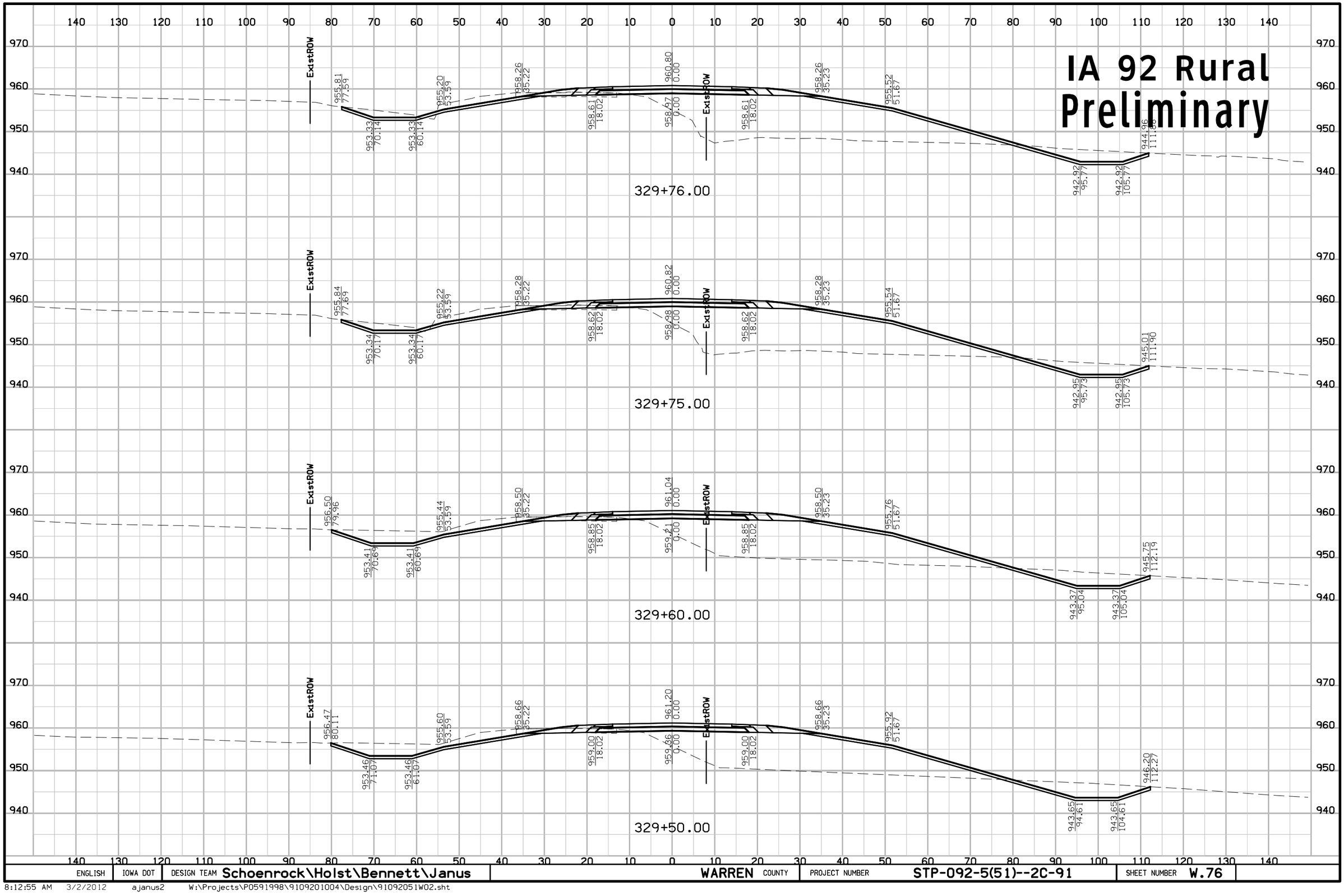
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.76

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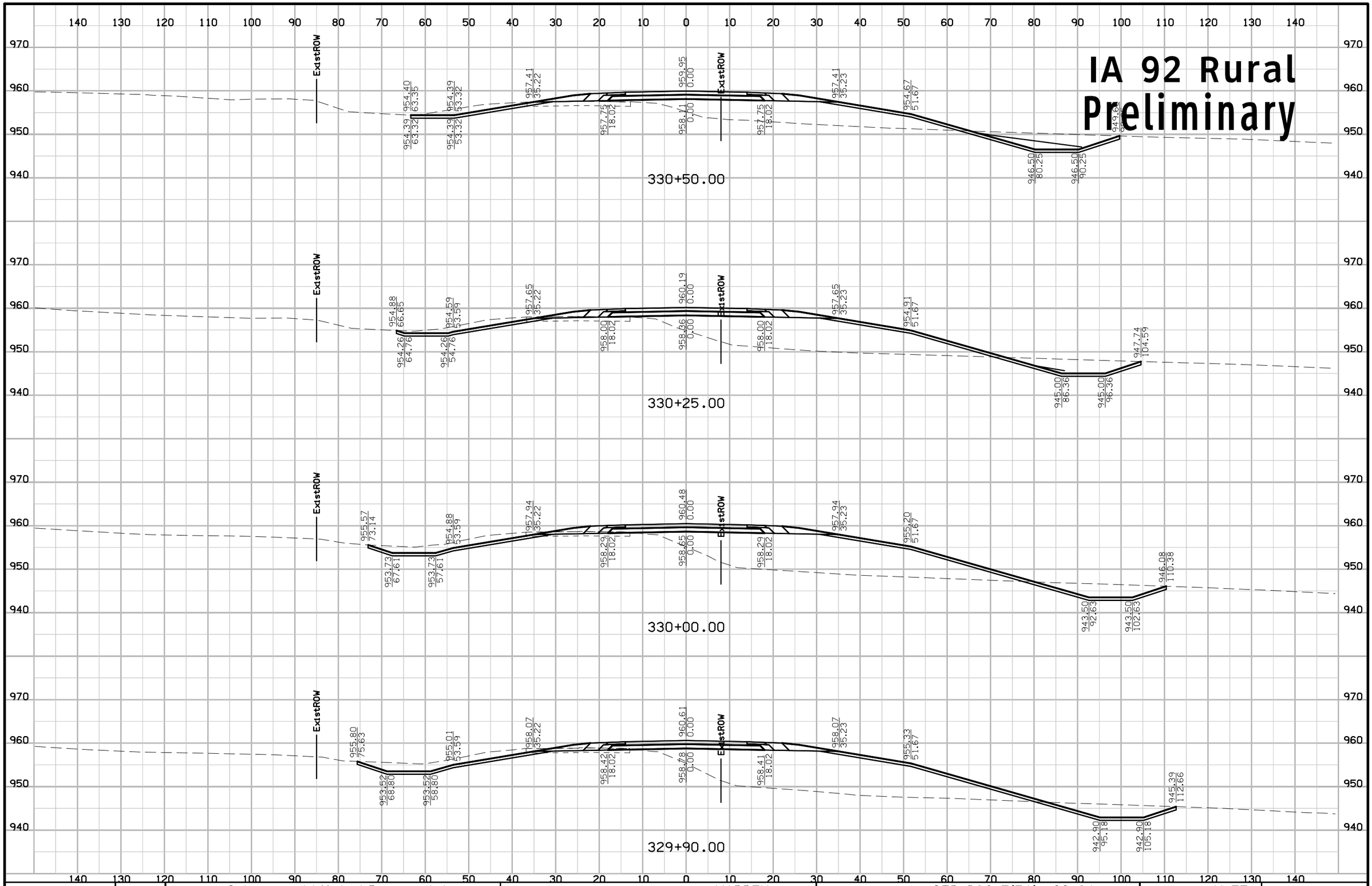
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.77

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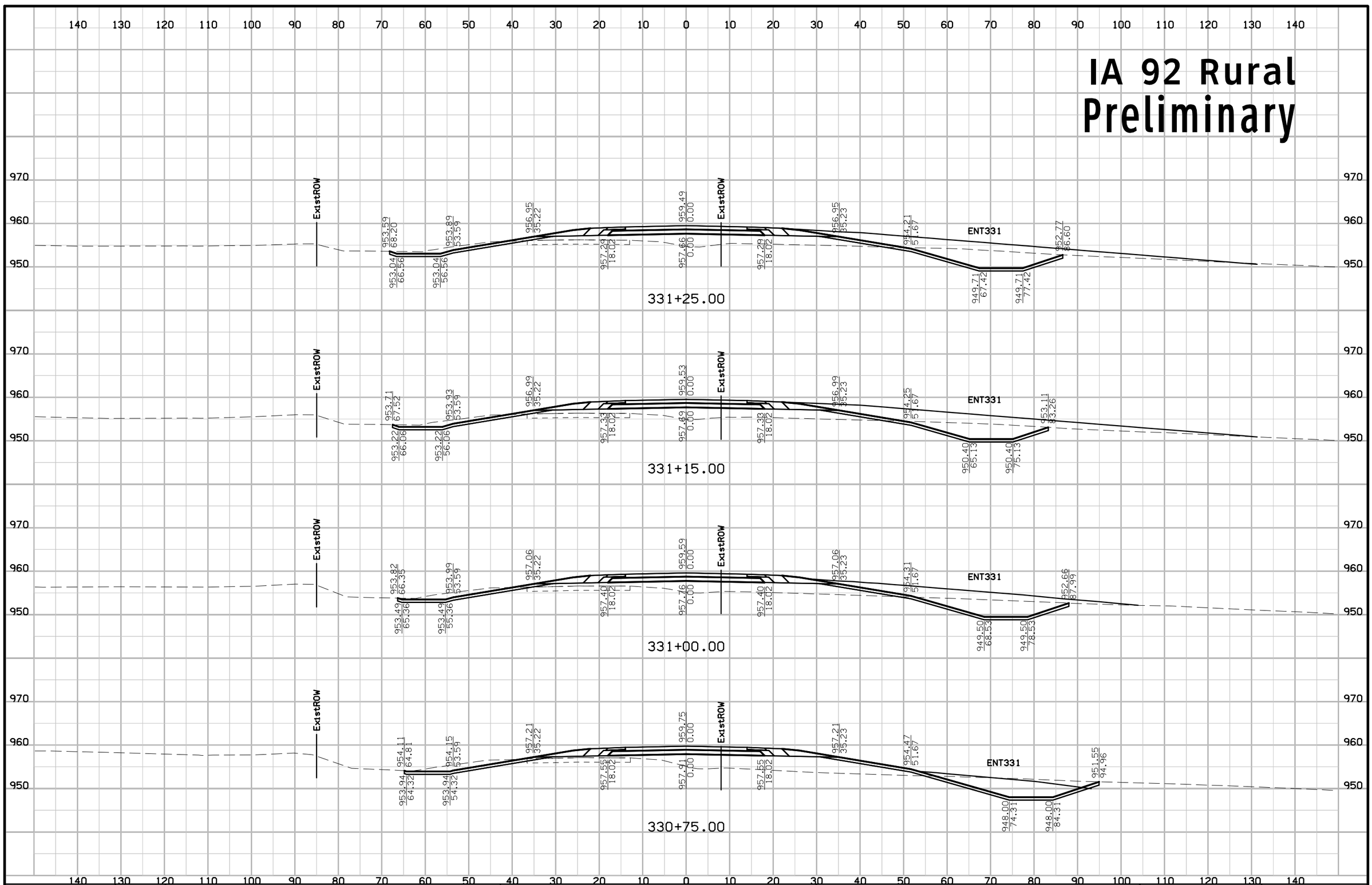
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.78

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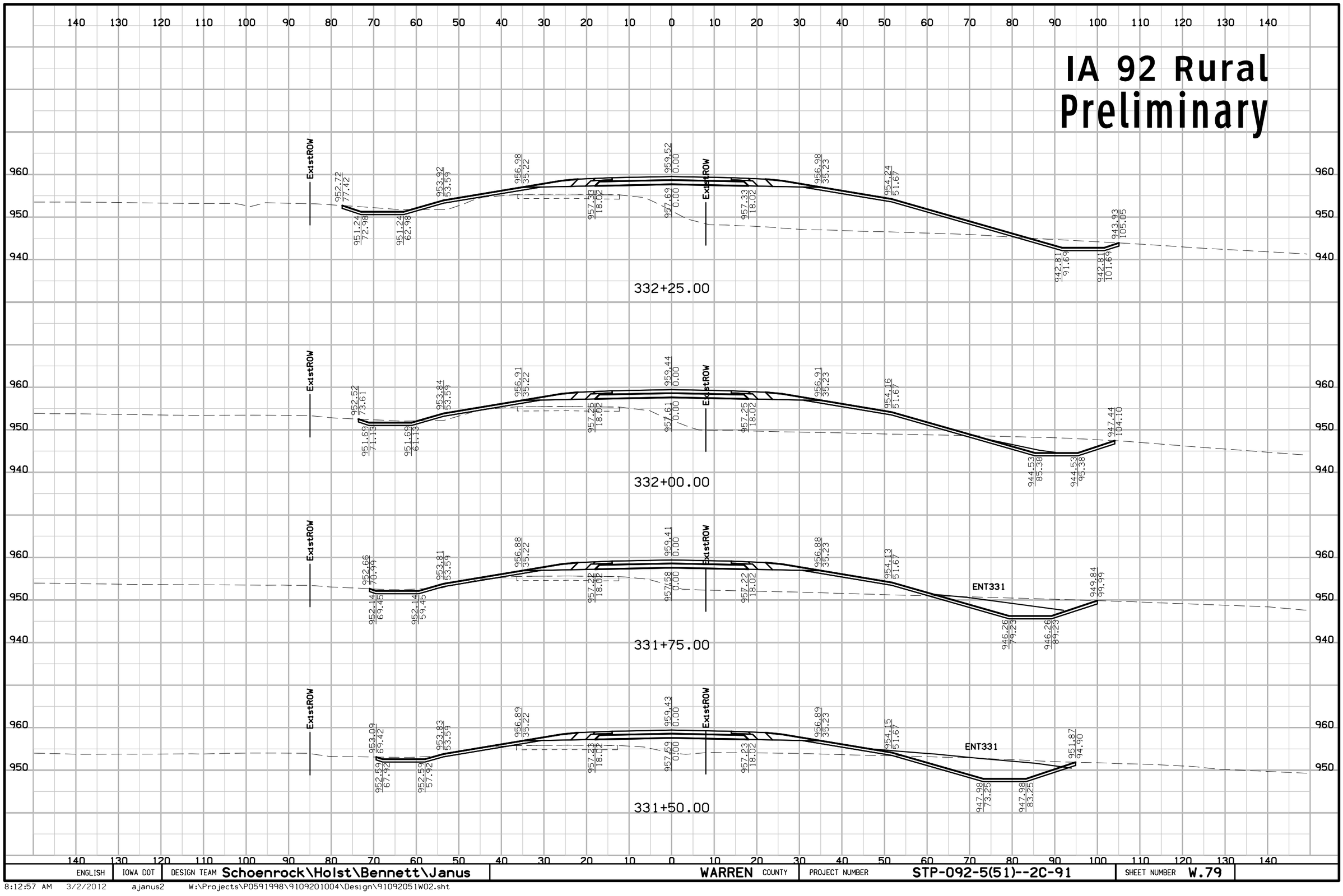
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.79

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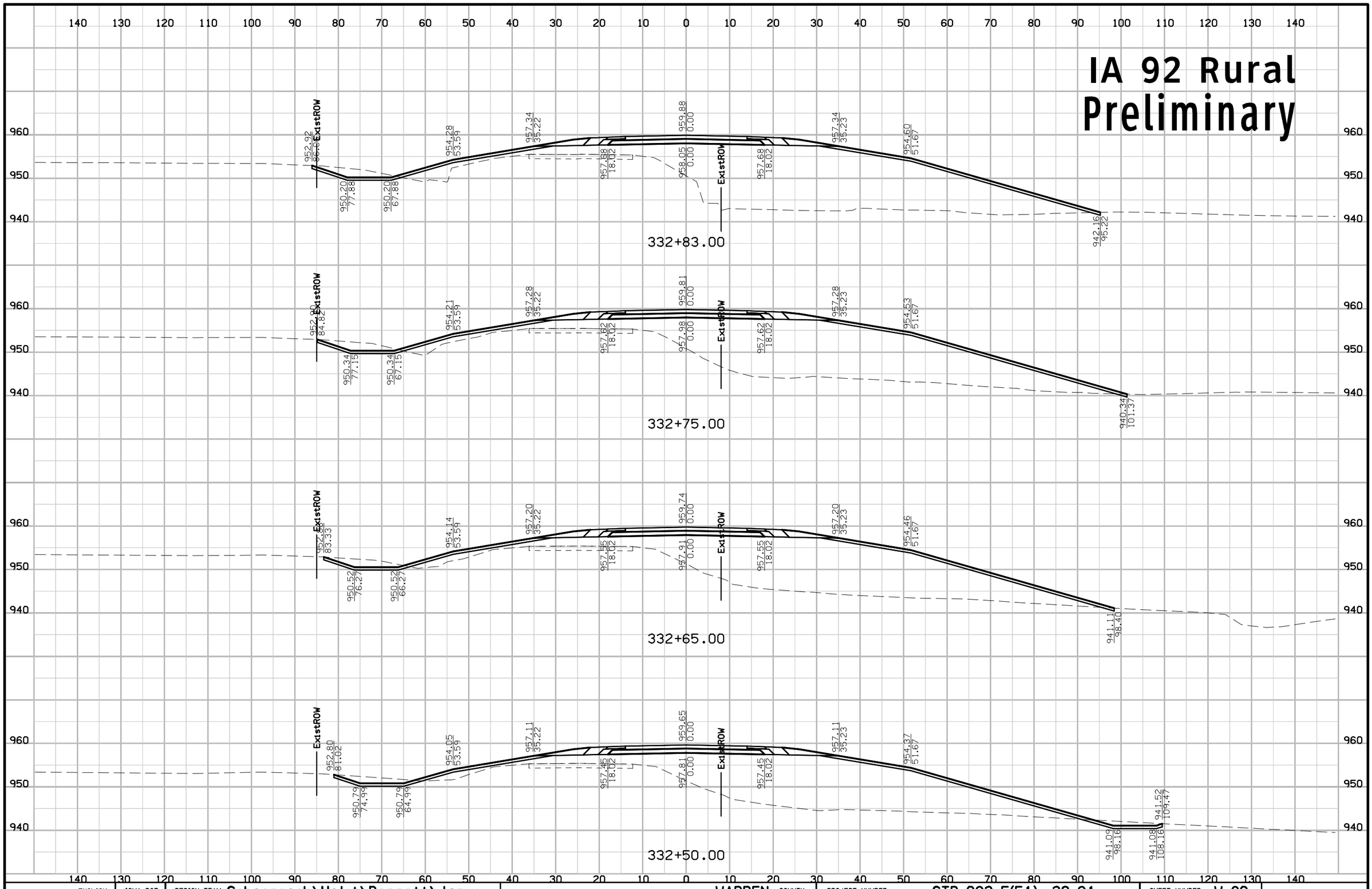
IA 92 Rural Preliminary



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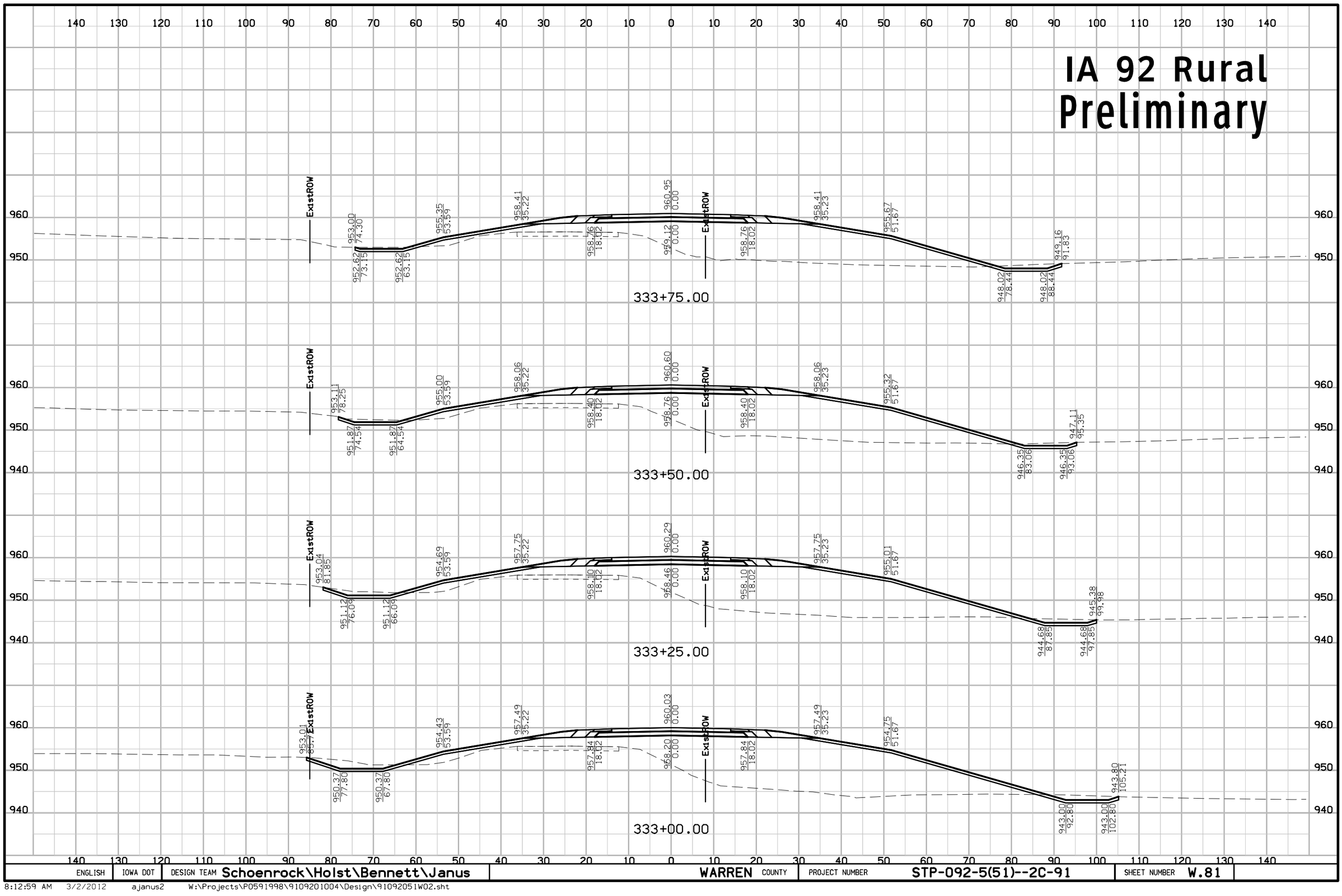
IA 92 Rural
Preliminary



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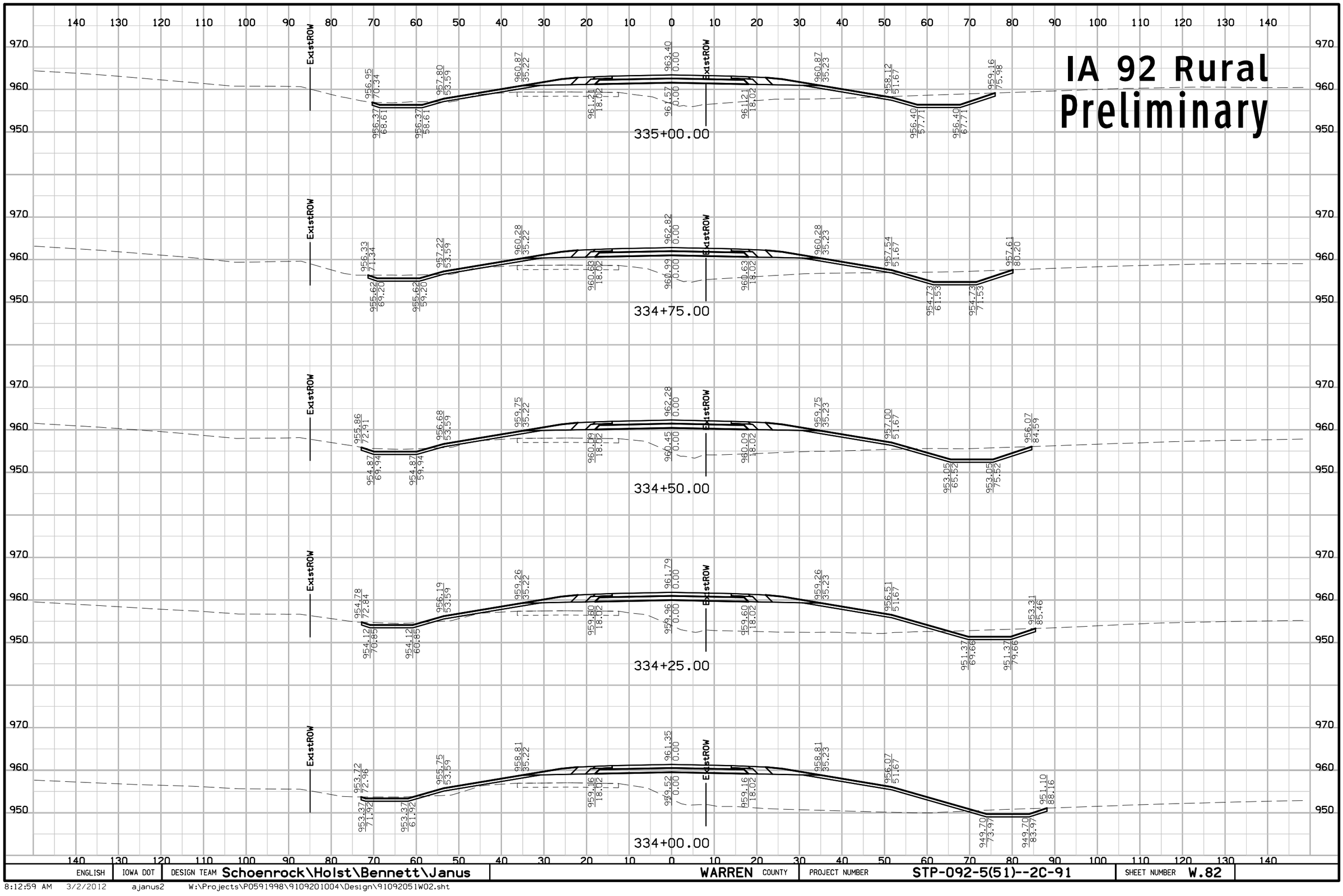
IA 92 Rural Preliminary



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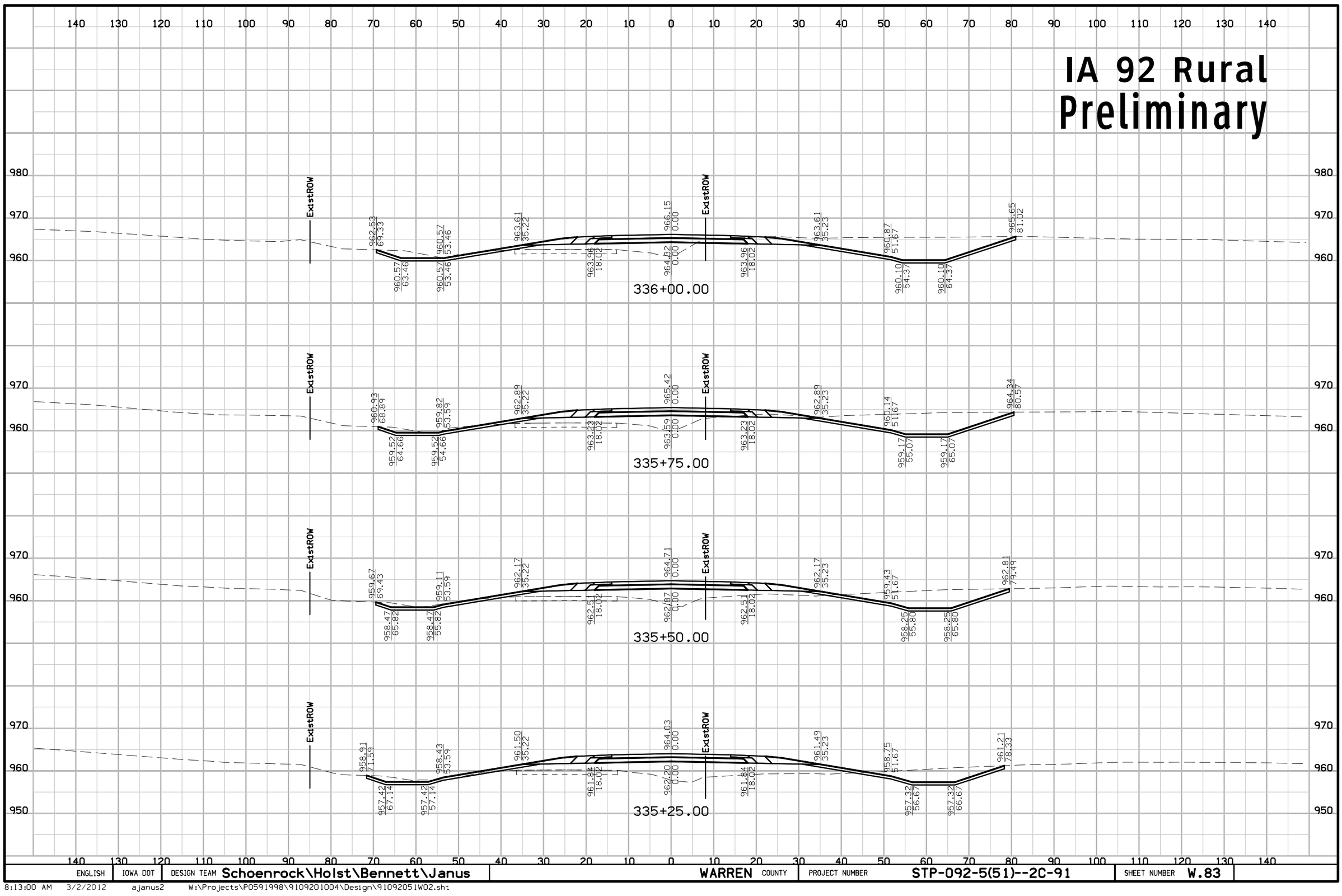
IA 92 Rural
Preliminary



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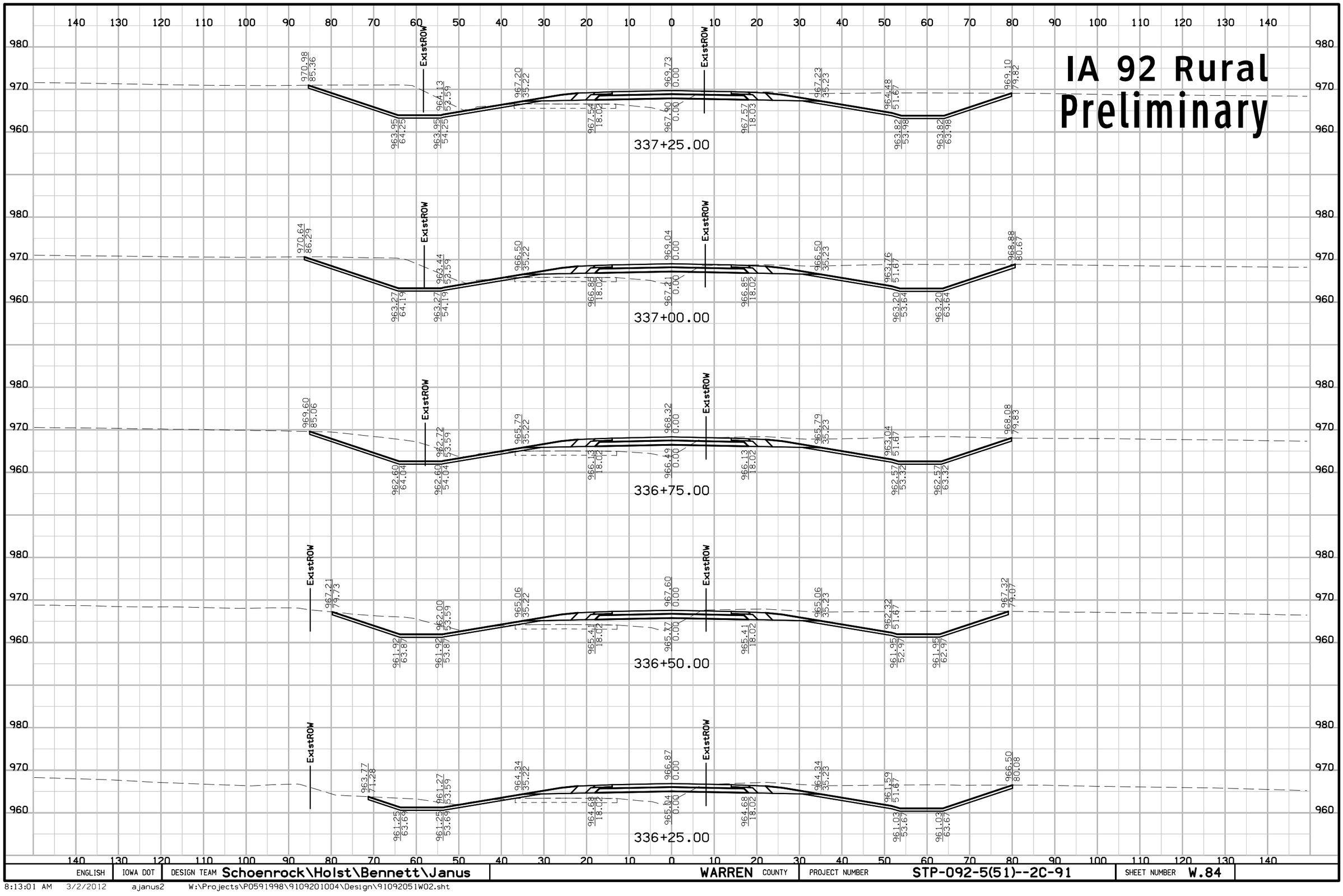
IA 92 Rural
Preliminary



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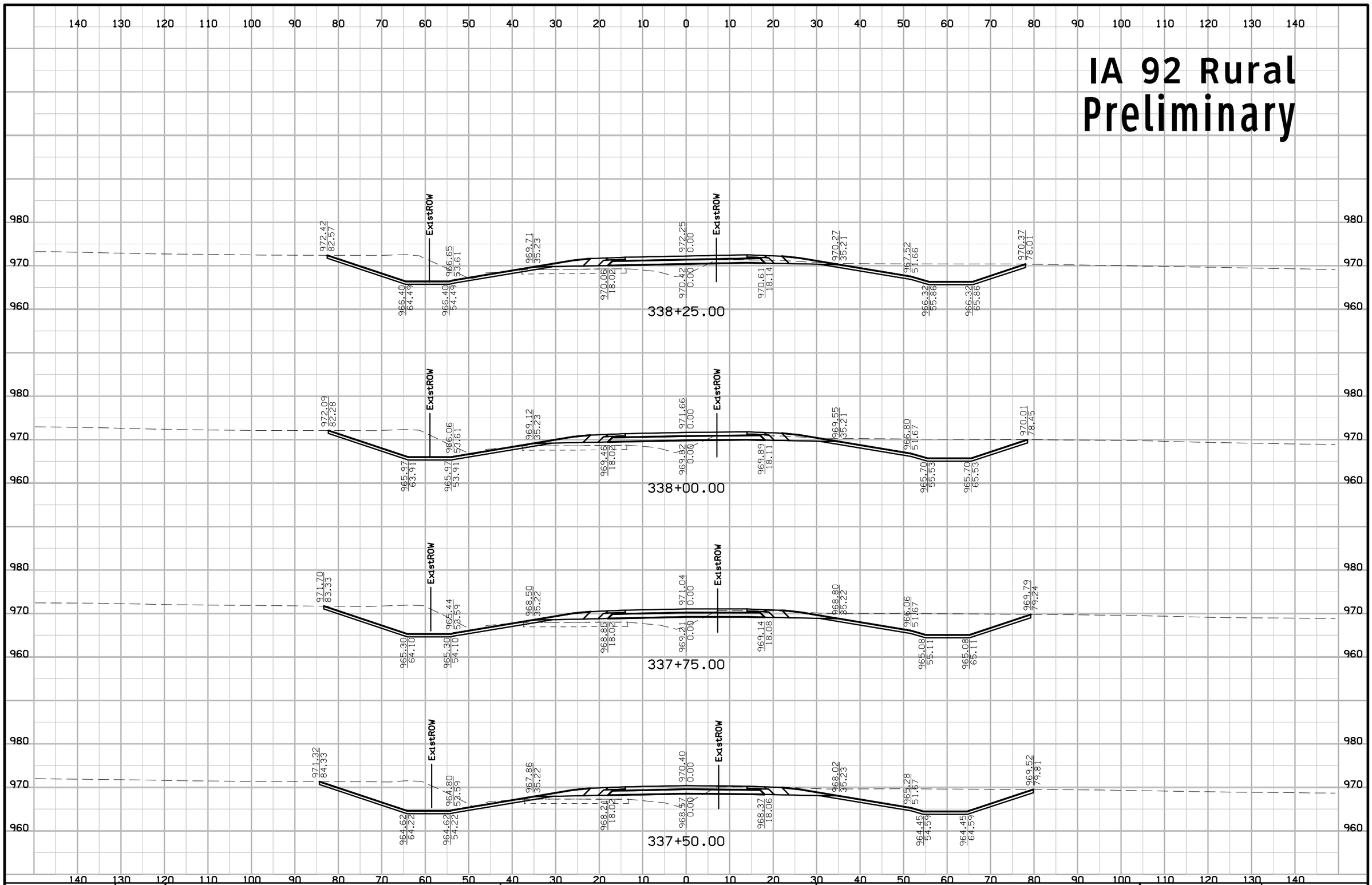
IA 92 Rural
Preliminary



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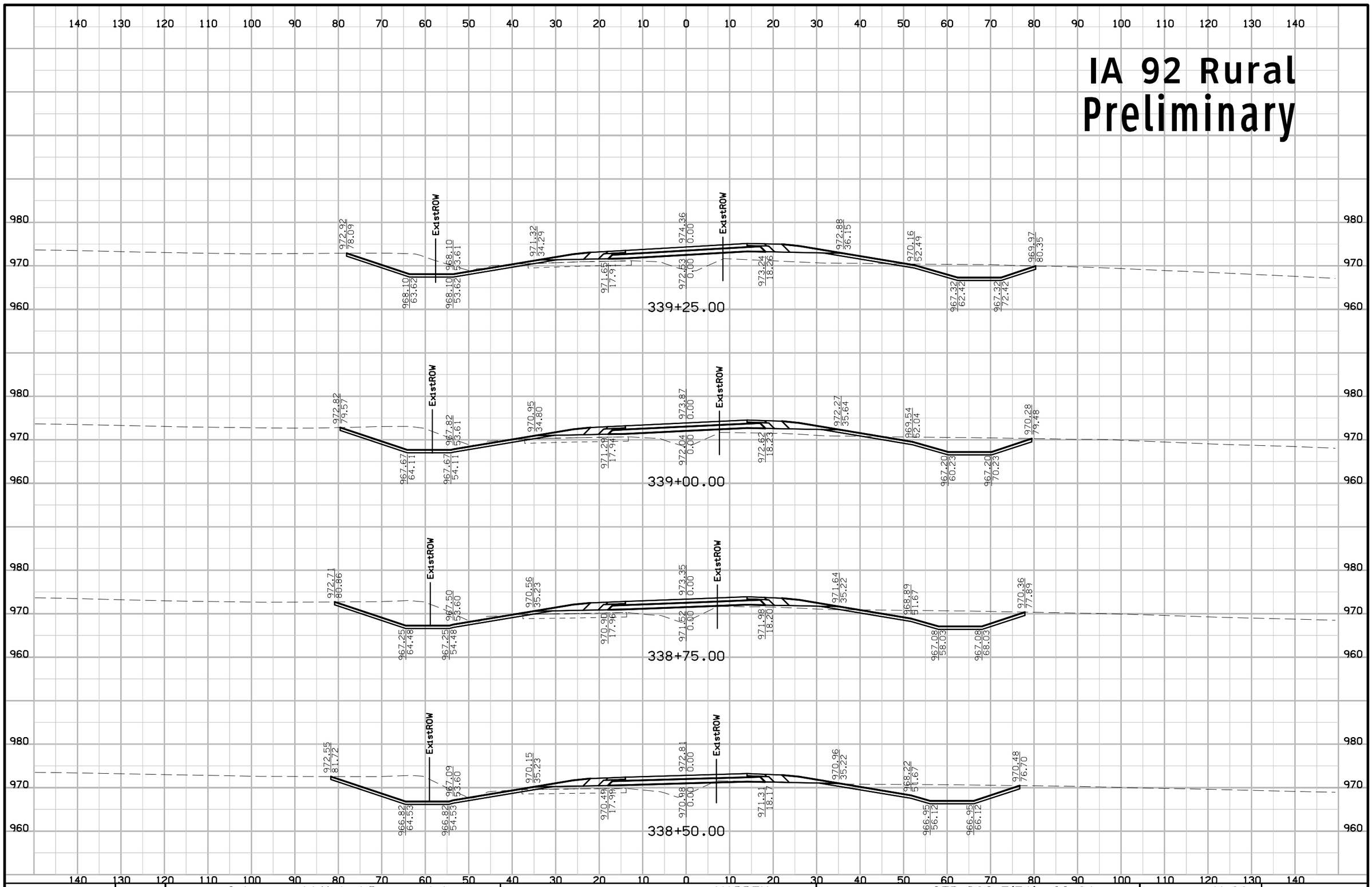
IA 92 Rural
Preliminary



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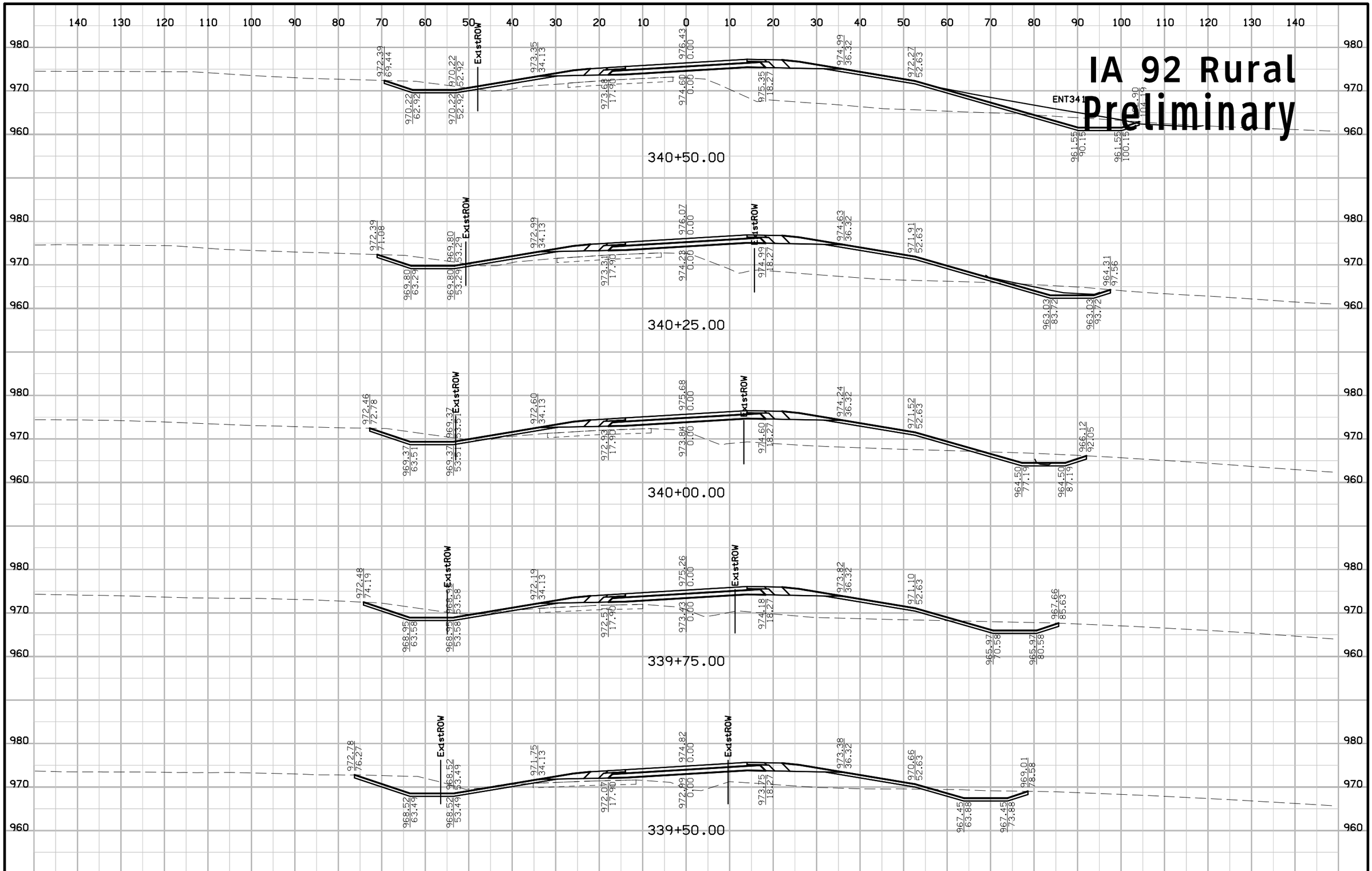
IA 92 Rural Preliminary



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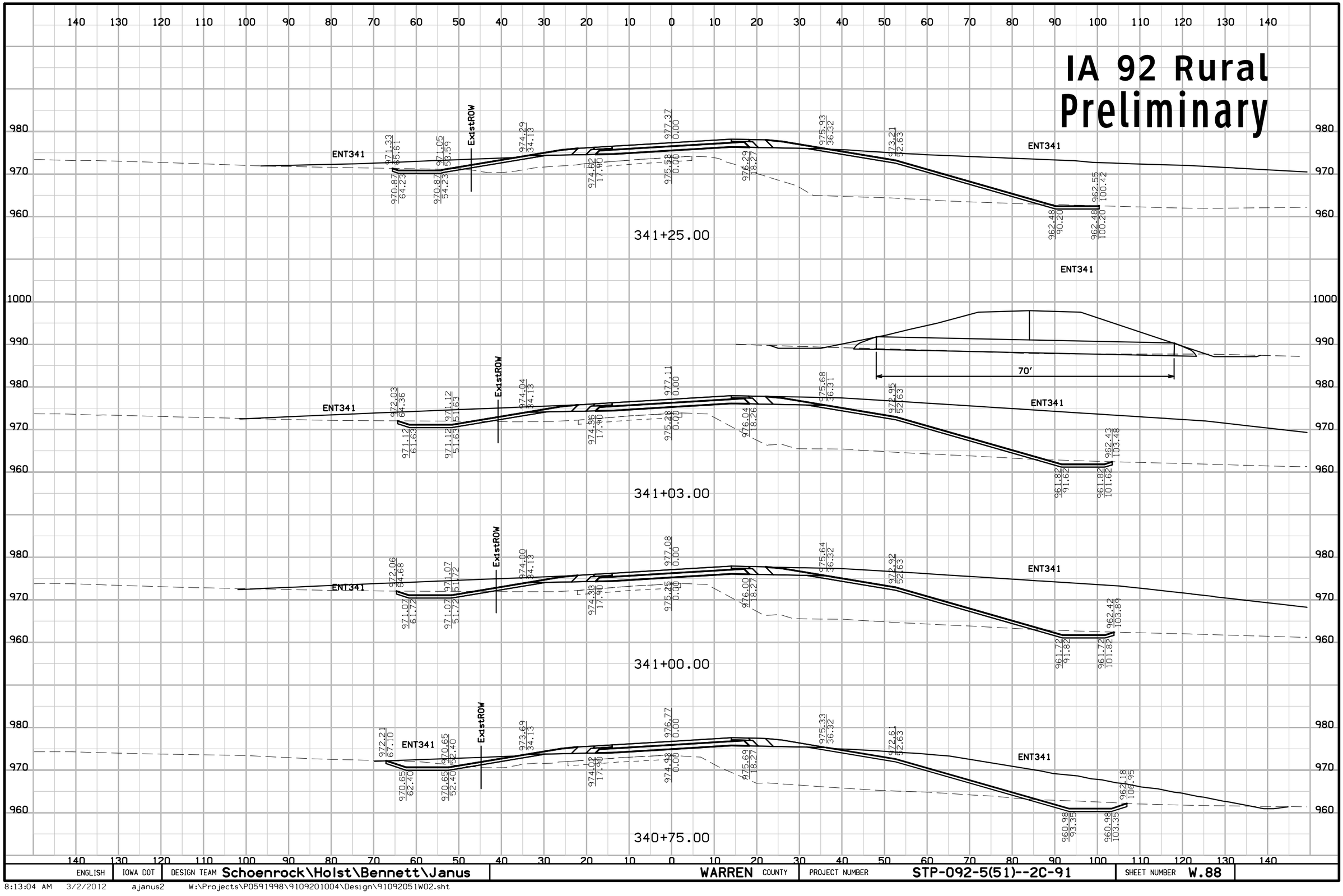
IA 92 Rural Preliminary



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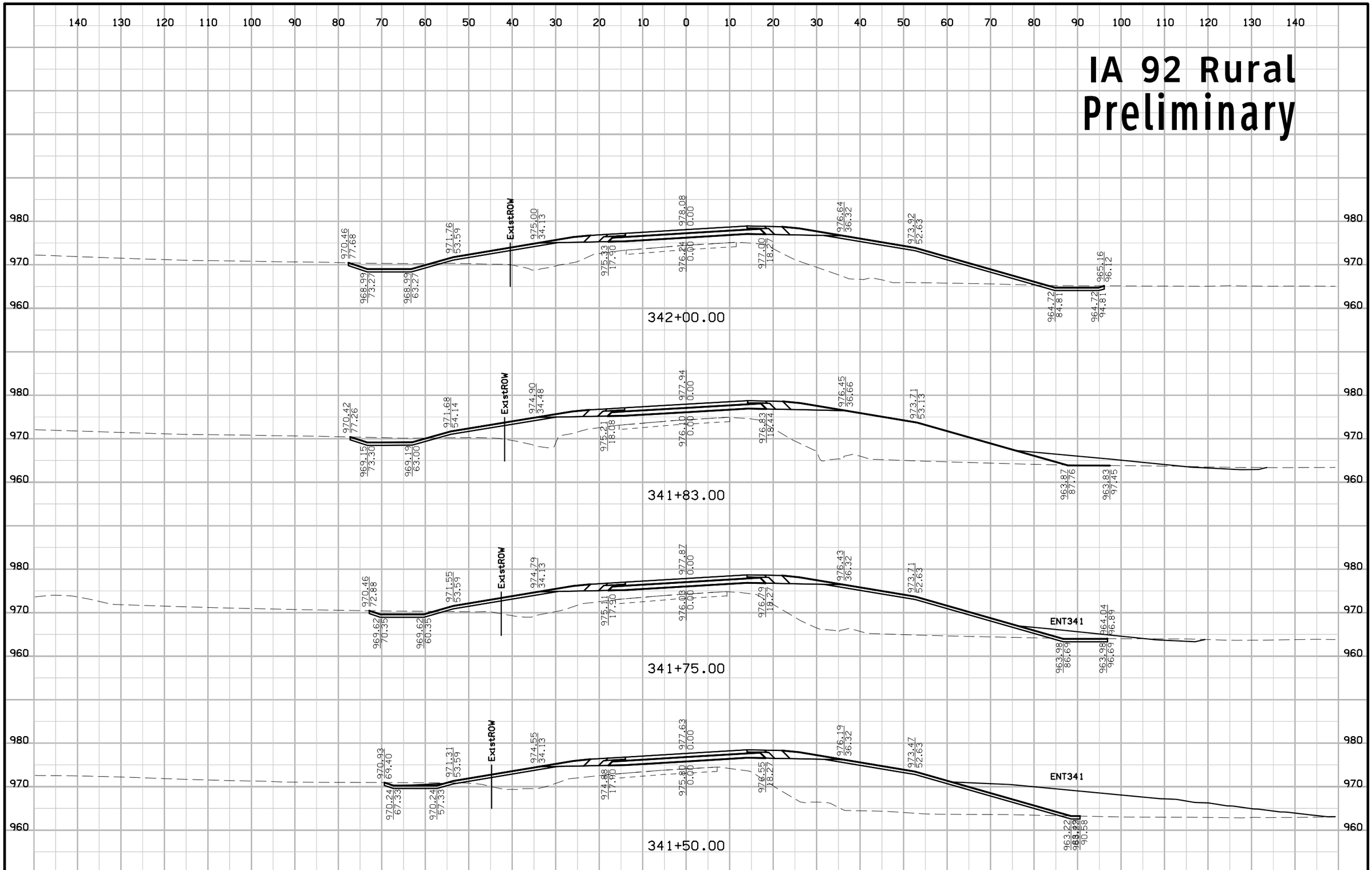
IA 92 Rural
Preliminary



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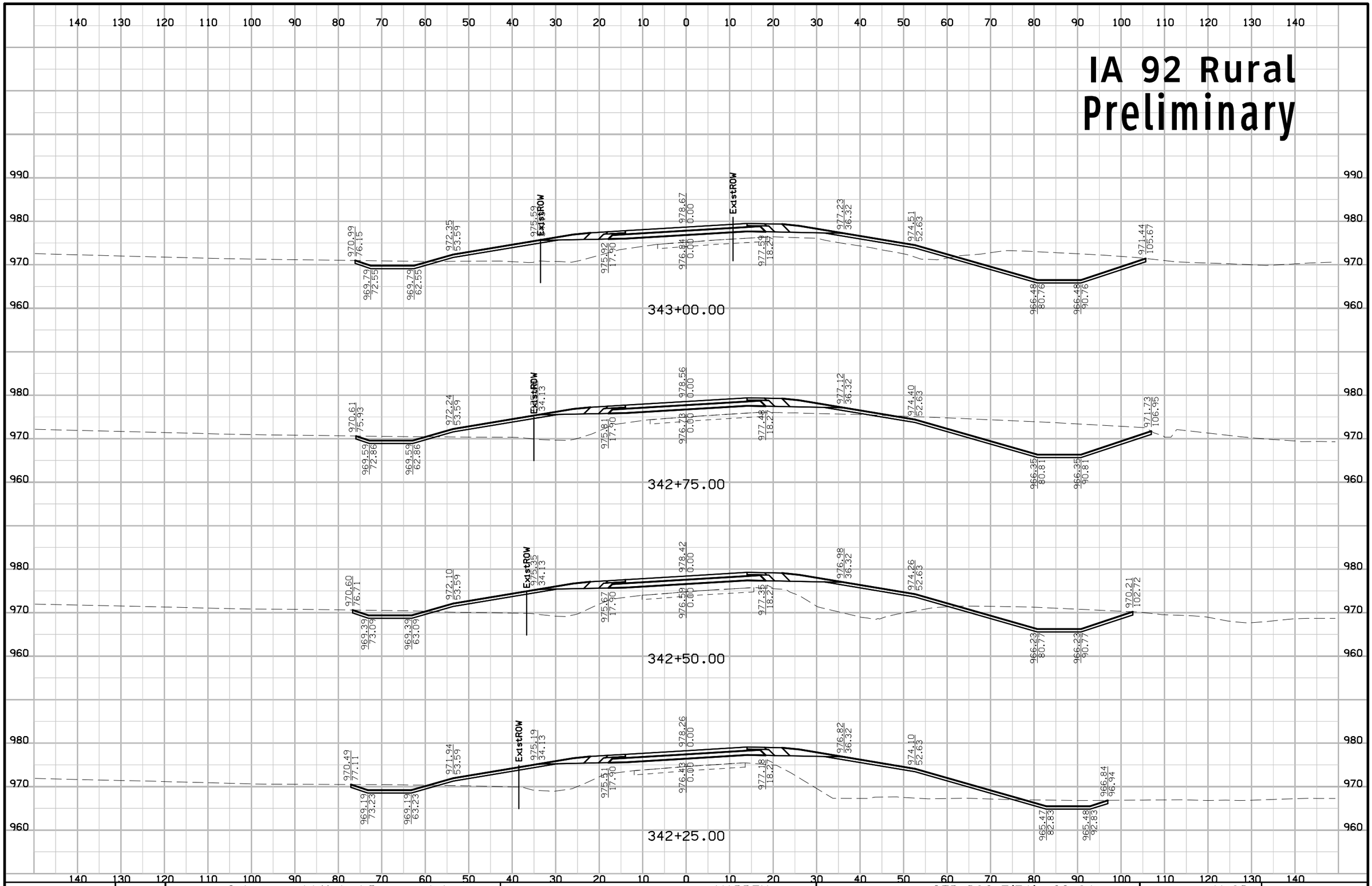
IA 92 Rural
Preliminary



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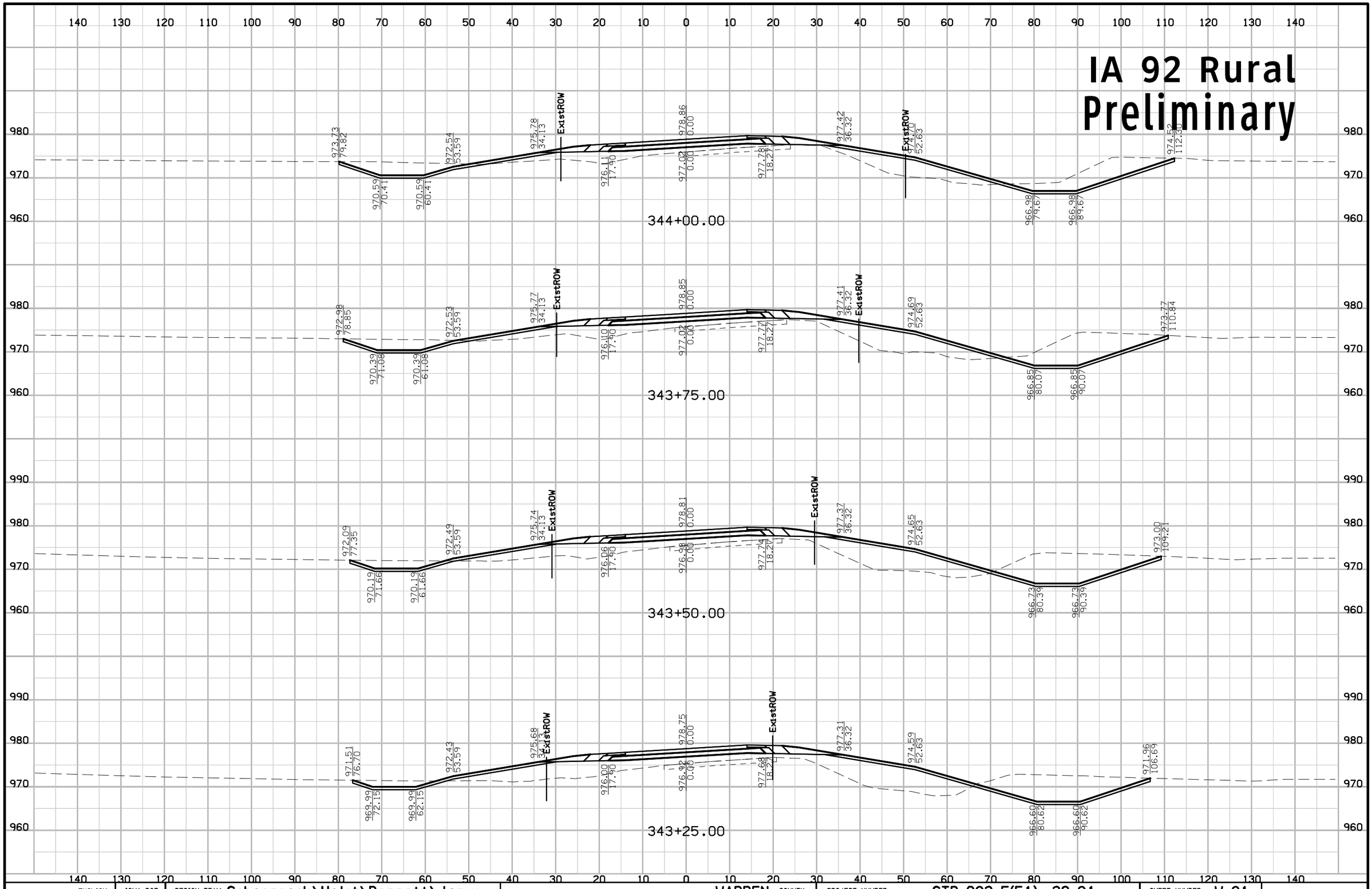
IA 92 Rural
Preliminary



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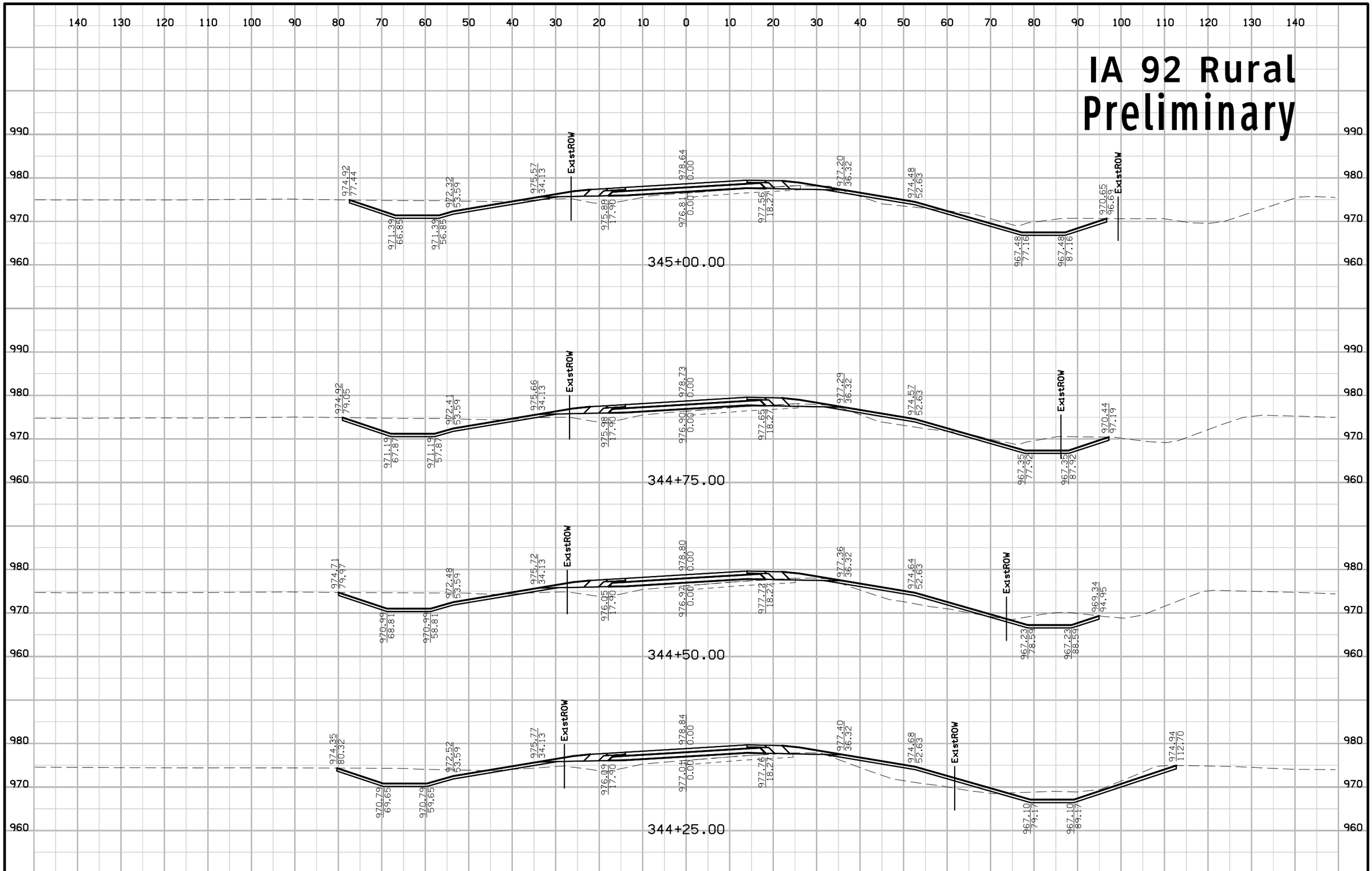
IA 92 Rural
Preliminary



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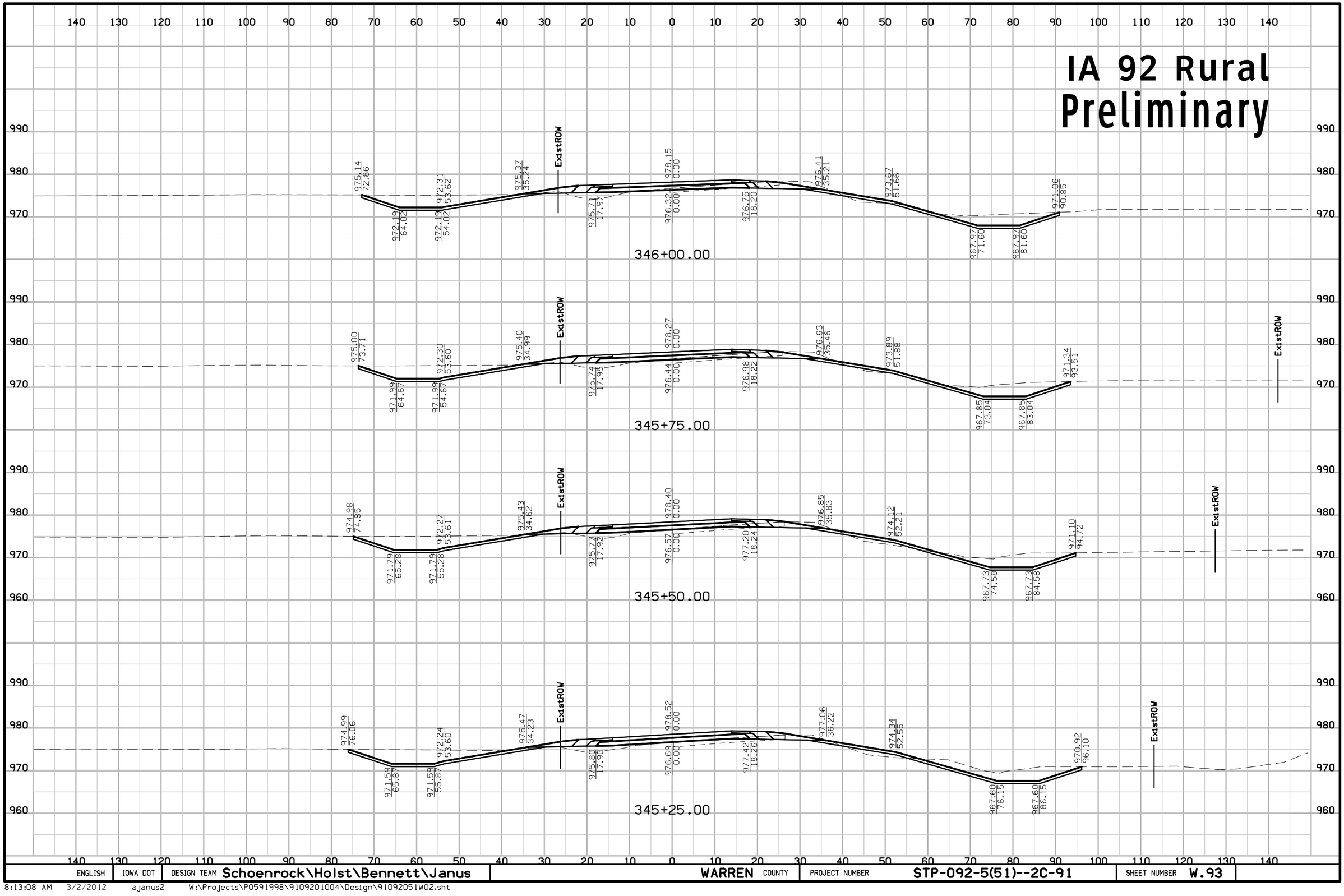
IA 92 Rural
Preliminary



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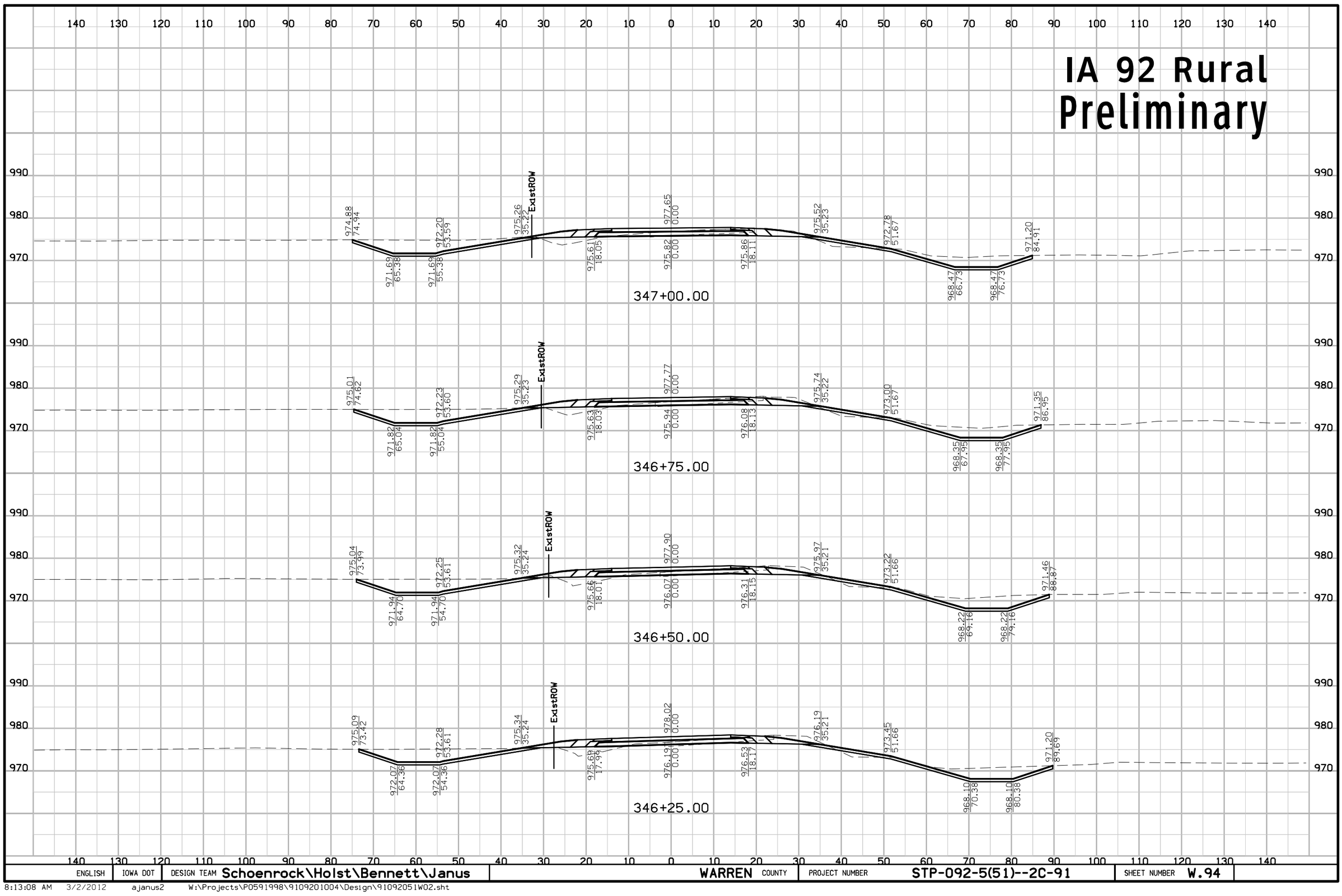
IA 92 Rural
Preliminary



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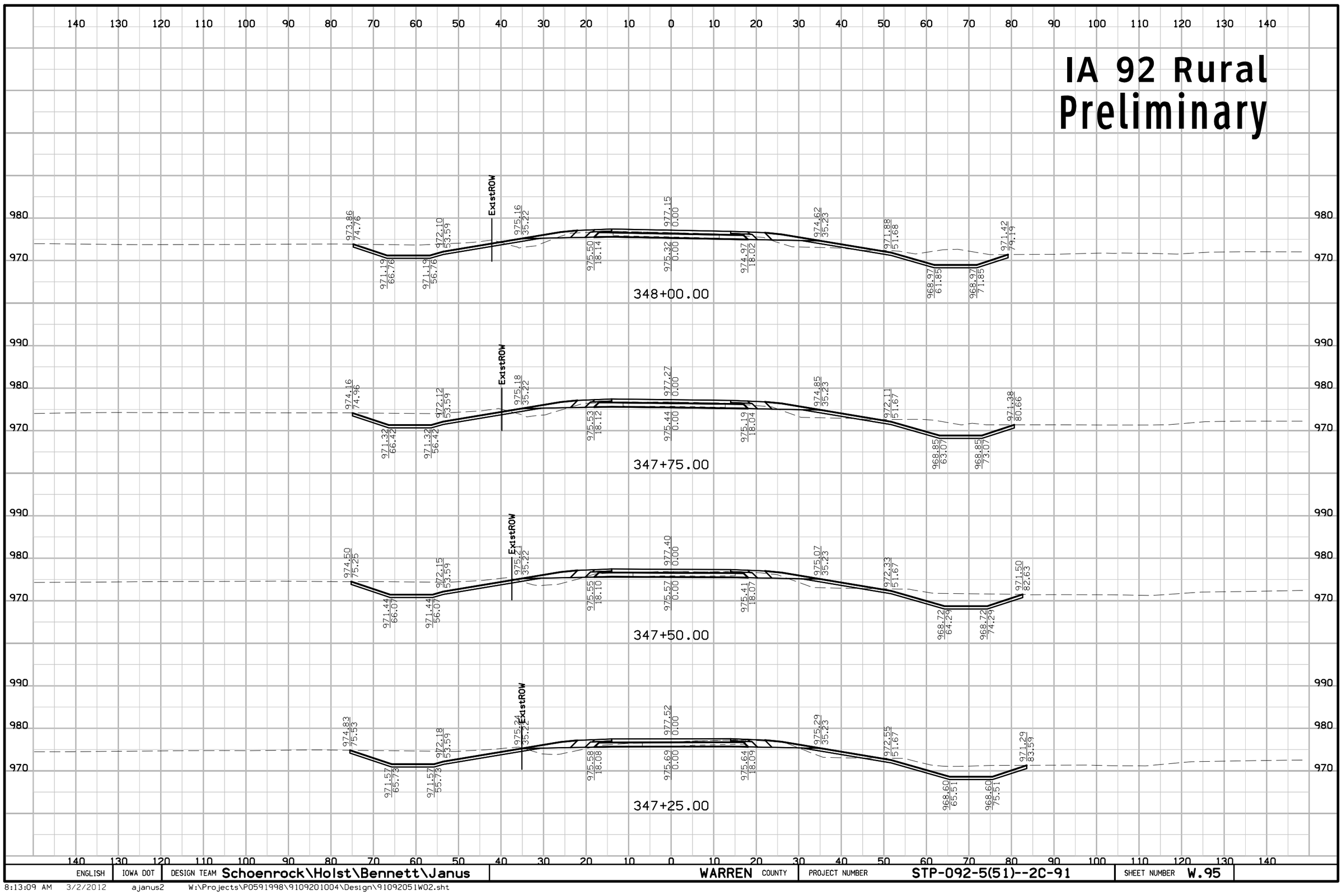
IA 92 Rural
Preliminary



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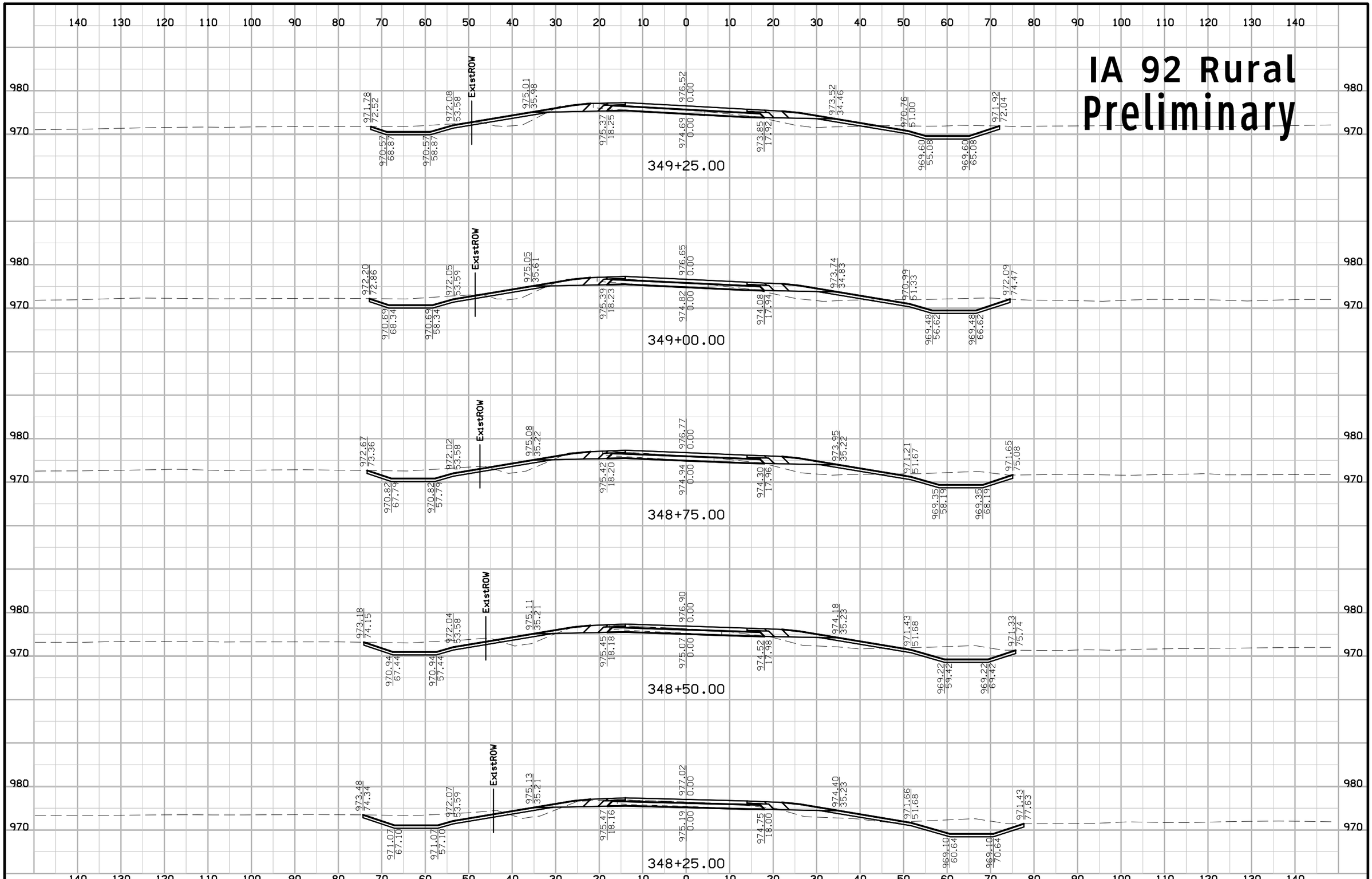
IA 92 Rural Preliminary



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IA 92 Rural
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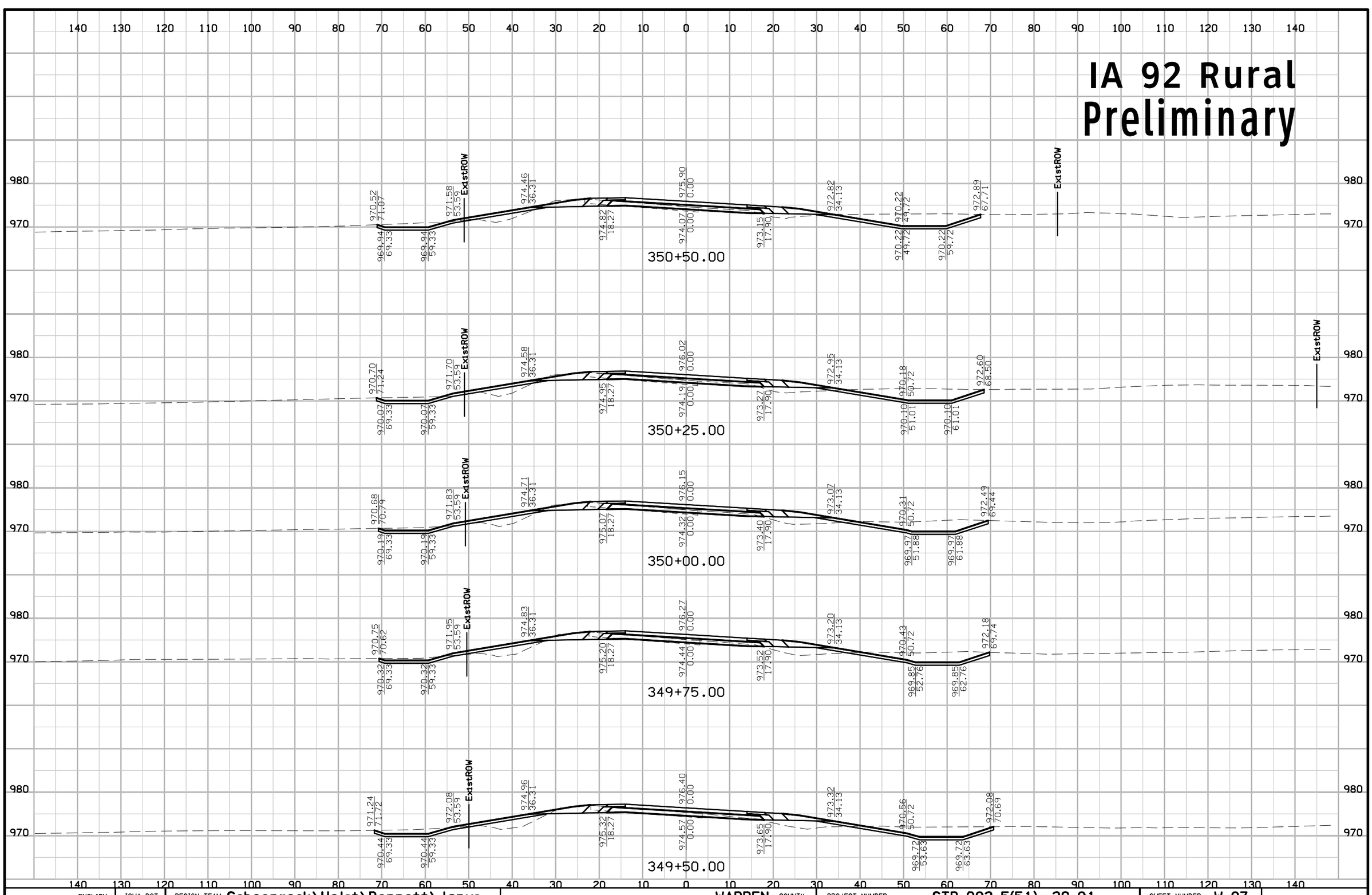

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IA 92 Rural Preliminary

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980 970

ExistROW

972.17 70.81 | 970.40 65.52 | 970.40 55.52 | 970.95 53.59 | 973.83 36.31 | 974.20 18.27 | 975.27 0.00 | 973.44 0.00 | 972.52 17.90 | 972.20 34.13 | ExistROW | 969.88 48.07 | 969.88 48.07 | 969.88 58.07 | 972.76 66.71

351+75.00

ExistROW

972.03 71.80 | 970.25 66.48 | 970.25 56.48 | 971.08 53.59 | 973.96 36.31 | 974.32 18.27 | 975.40 0.00 | 973.57 0.00 | 972.65 17.90 | 972.32 34.13 | ExistROW | 970.08 47.62 | 970.08 47.62 | 970.08 57.62 | 973.13 66.77

351+50.00

ExistROW

971.93 72.91 | 970.11 67.44 | 970.11 57.44 | 971.20 53.59 | 974.08 36.31 | 974.45 18.27 | 975.52 0.00 | 973.69 0.00 | 972.77 17.90 | 972.45 34.13 | ExistROW | 970.27 47.17 | 970.27 47.17 | 970.27 57.17 | 973.37 66.46

351+25.00

971.25 72.30 | 969.96 68.40 | 969.96 58.40 | 971.33 53.59 | 974.21 36.31 | 974.57 18.27 | 975.65 0.00 | 973.82 0.00 | 972.90 17.90 | 972.57 34.13 | ExistROW | 970.47 46.72 | 970.47 46.72 | 970.47 56.72 | 972.77 63.59

351+00.00

970.42 71.13 | 969.82 69.33 | 969.82 59.33 | 971.45 53.59 | ExistROW | 974.33 36.31 | 975.77 0.00 | 973.94 0.00 | 973.02 17.90 | 974.70 18.27 | 972.70 34.13 | ExistROW | 970.35 48.22 | 970.35 48.22 | 970.35 58.22 | 972.51 64.69

350+75.00

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 Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.98

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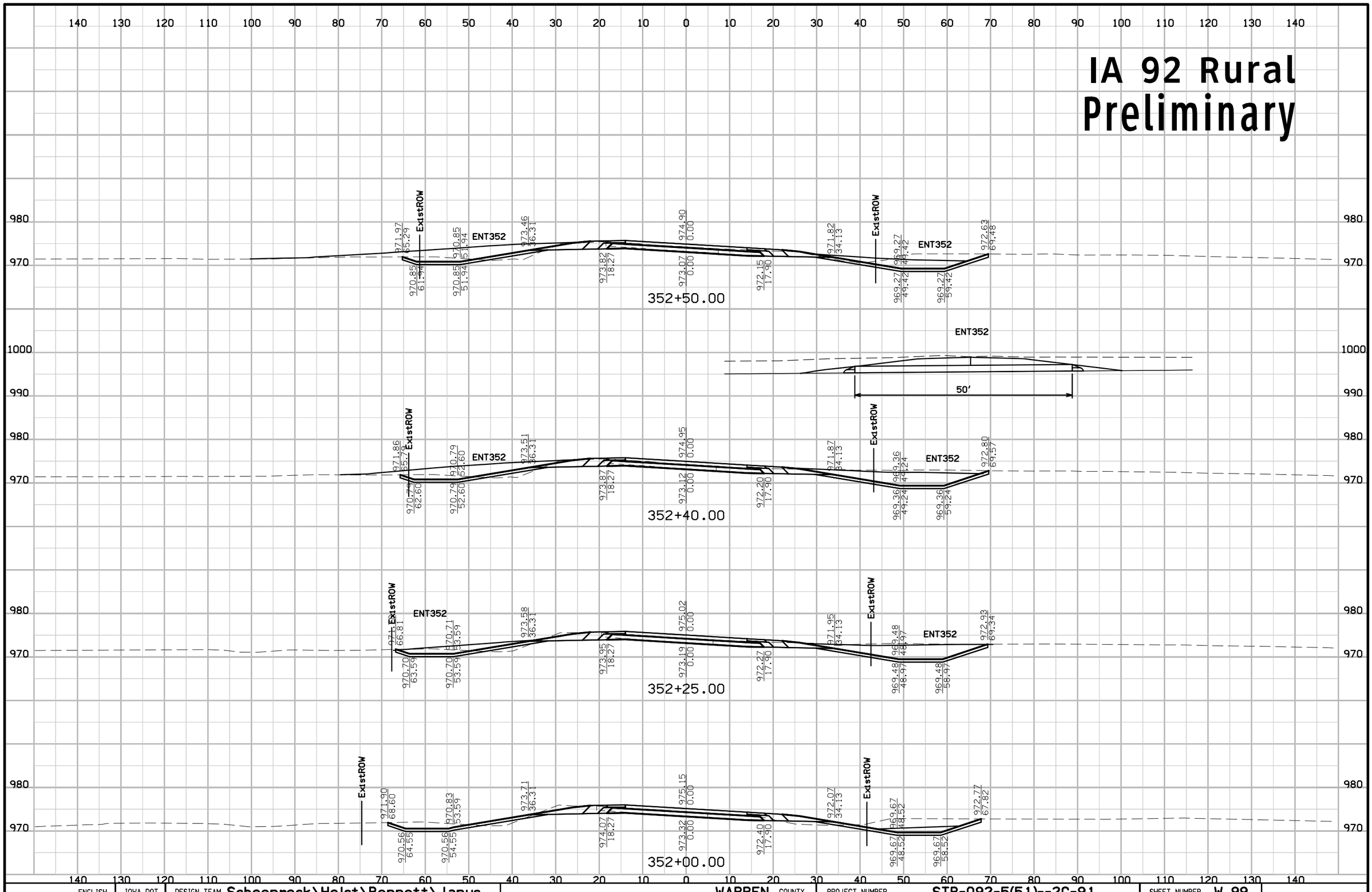
IA 92 Rural
Preliminary



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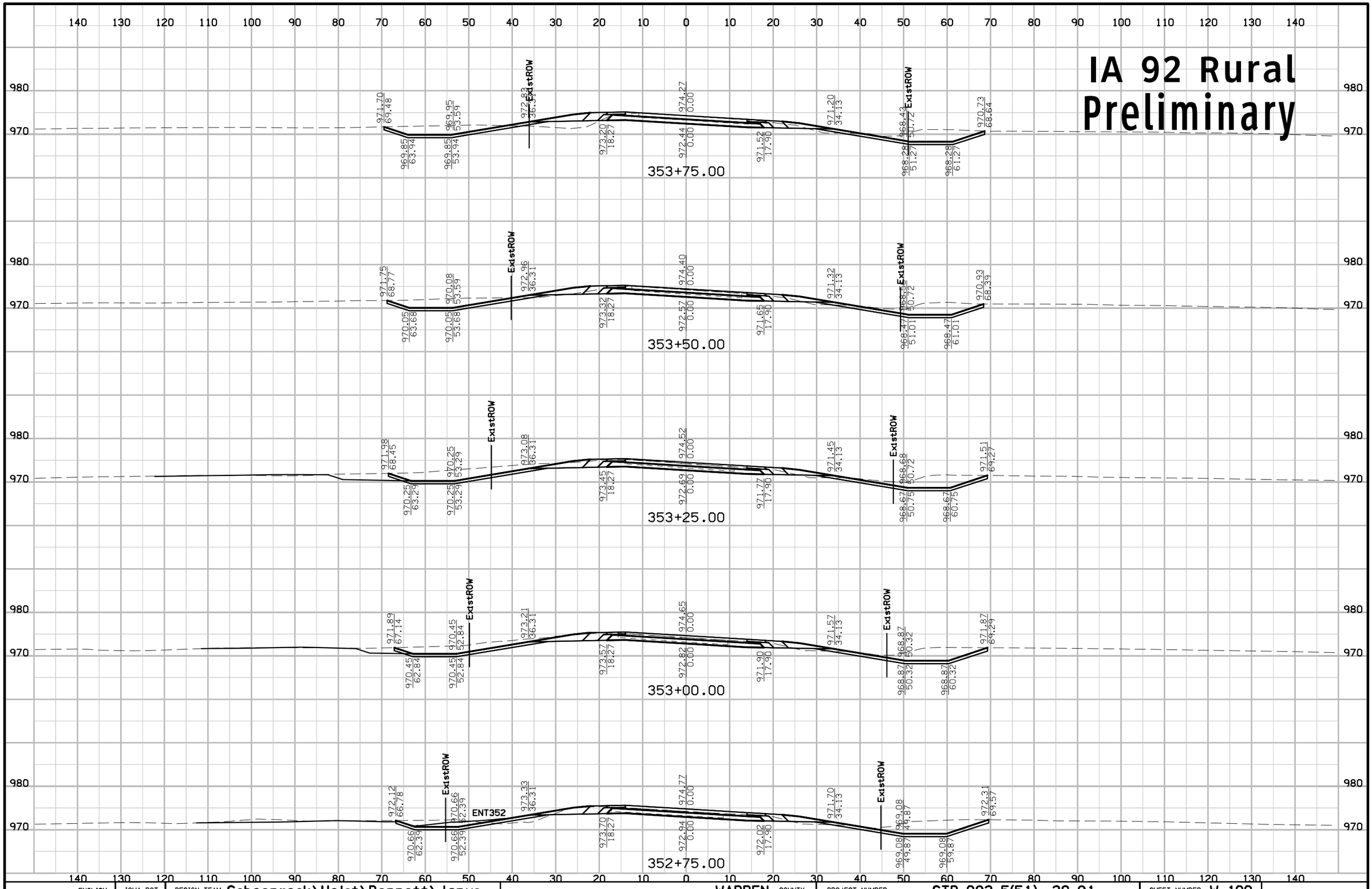
IA 92 Rural
Preliminary



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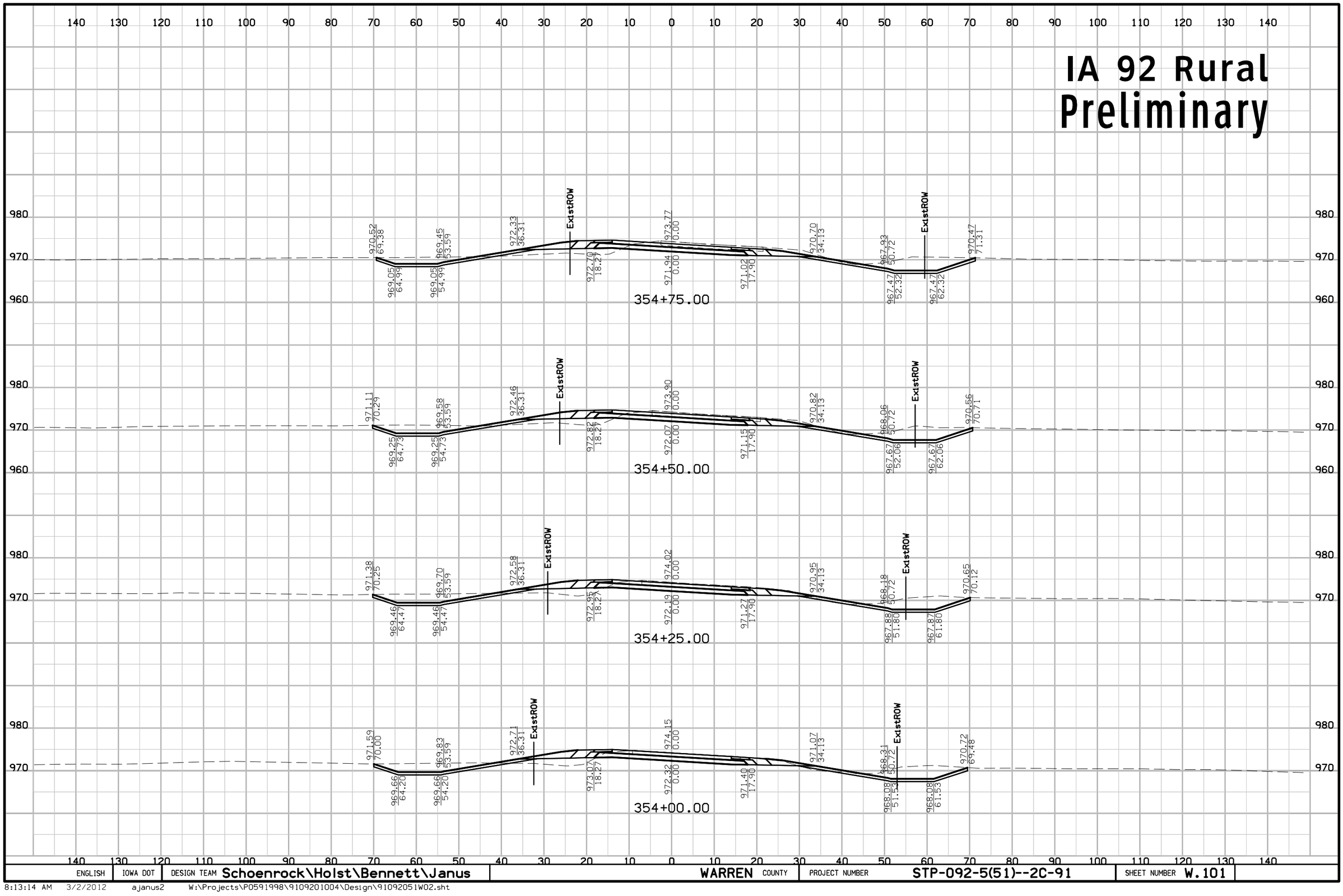
IA 92 Rural
Preliminary



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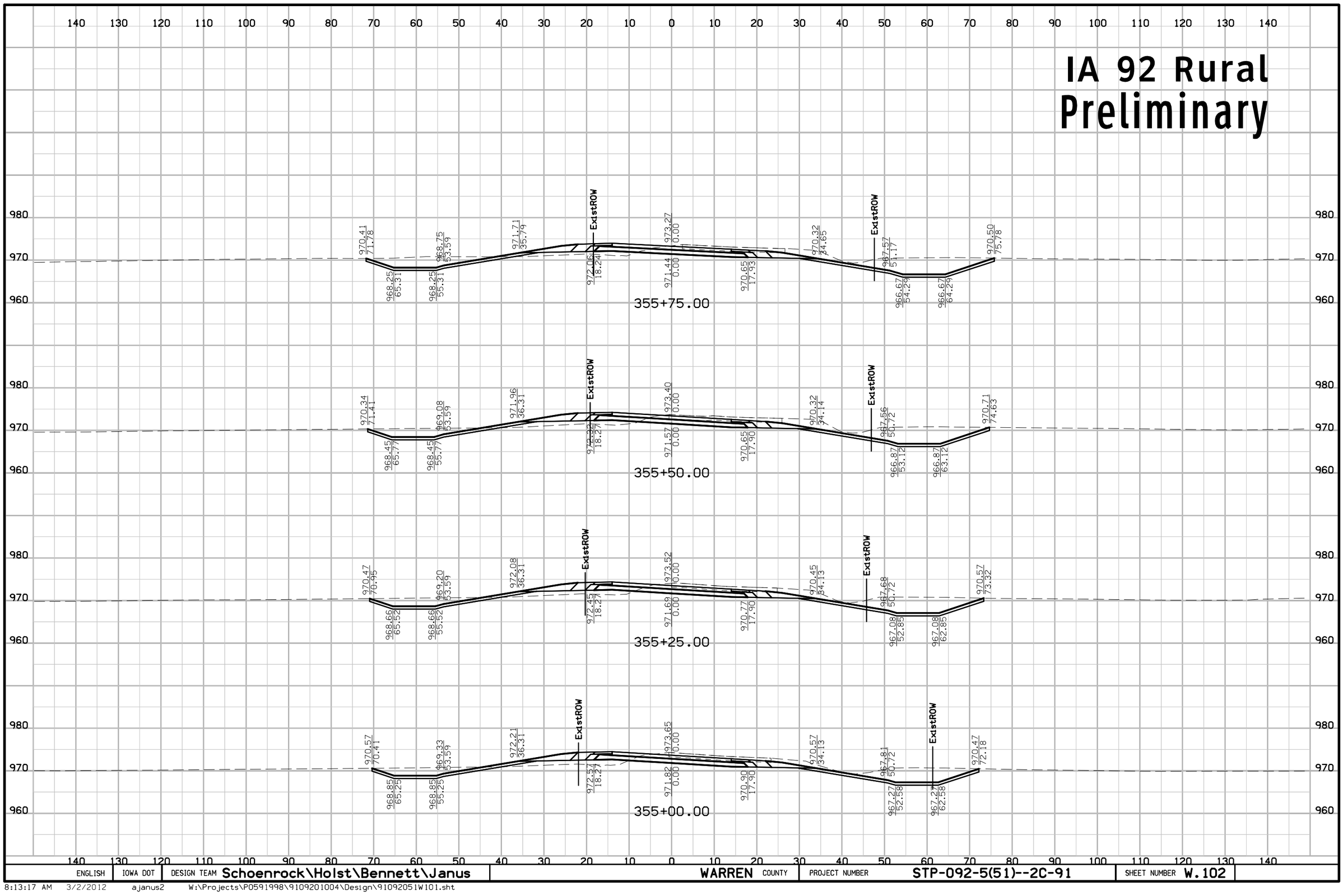
IA 92 Rural
Preliminary



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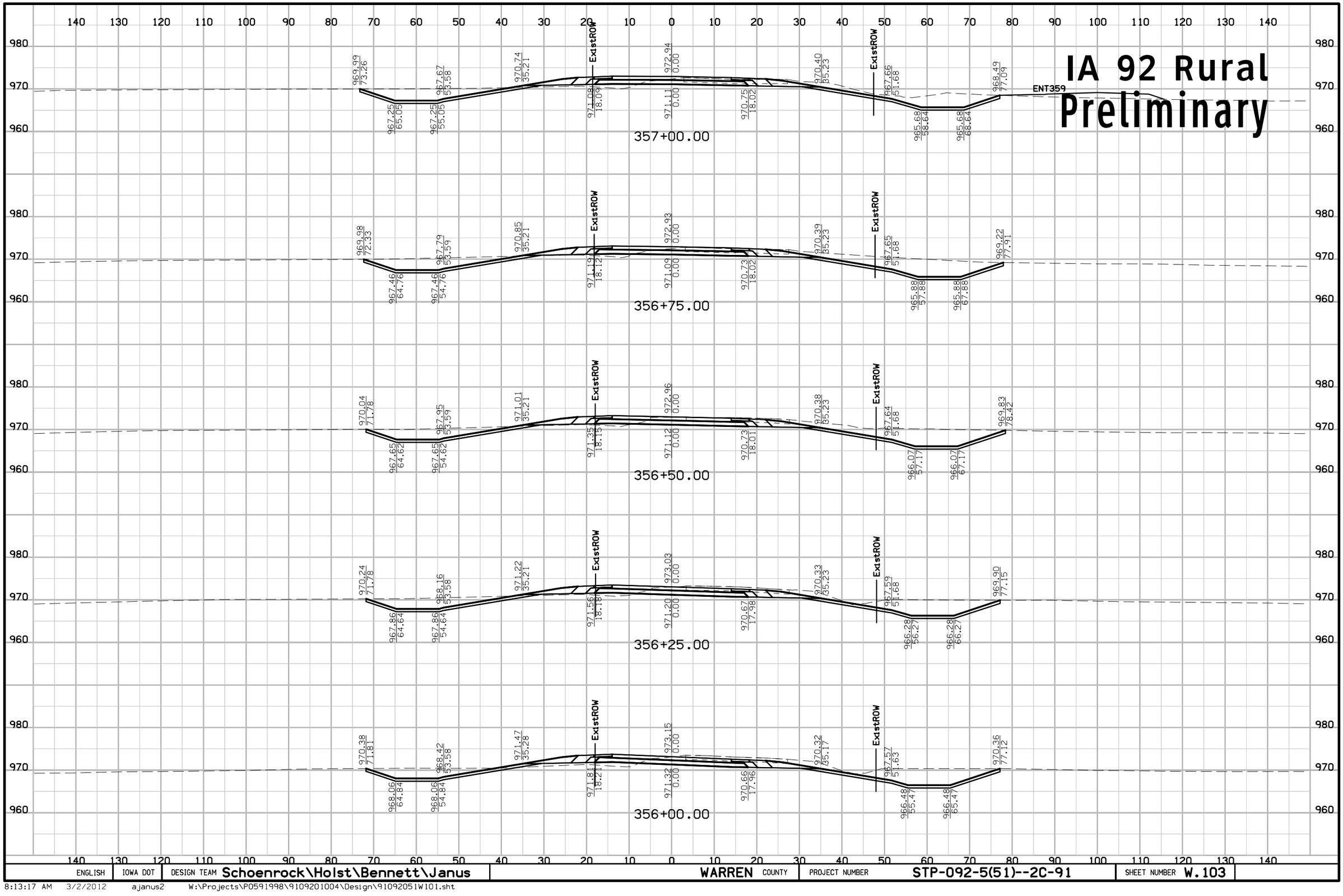
IA 92 Rural
Preliminary



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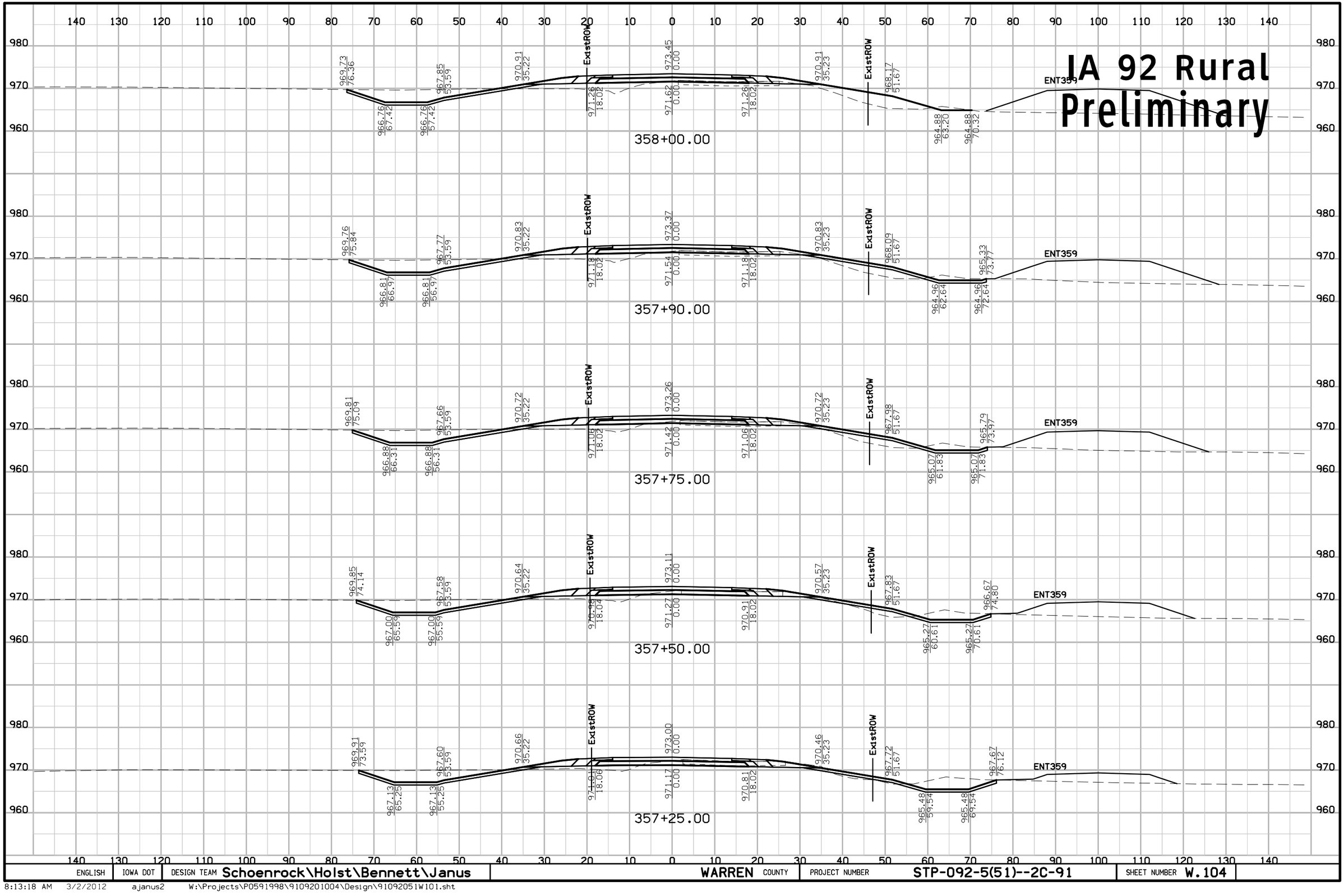
IA 92 Rural
Preliminary



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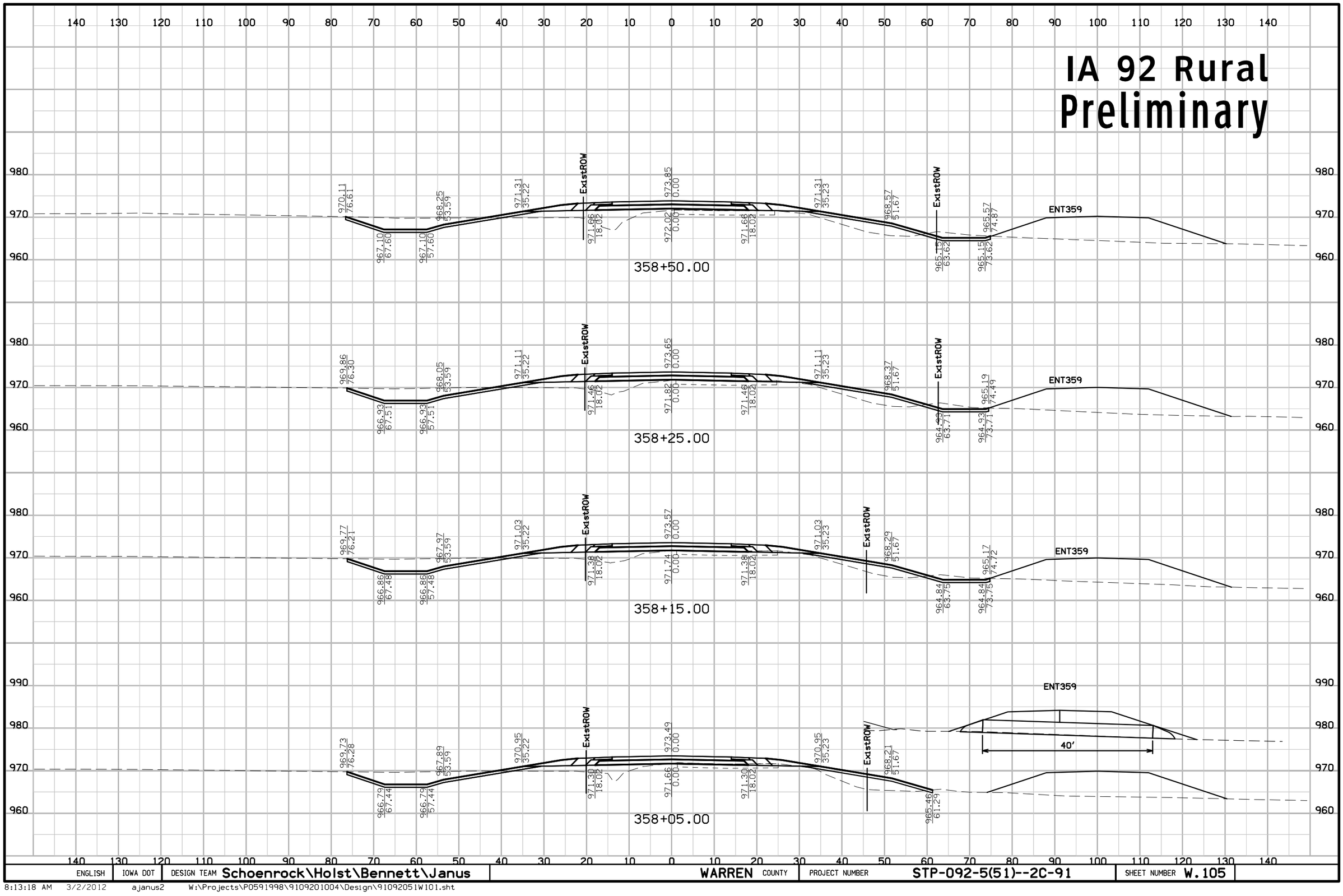
IA 92 Rural
Preliminary



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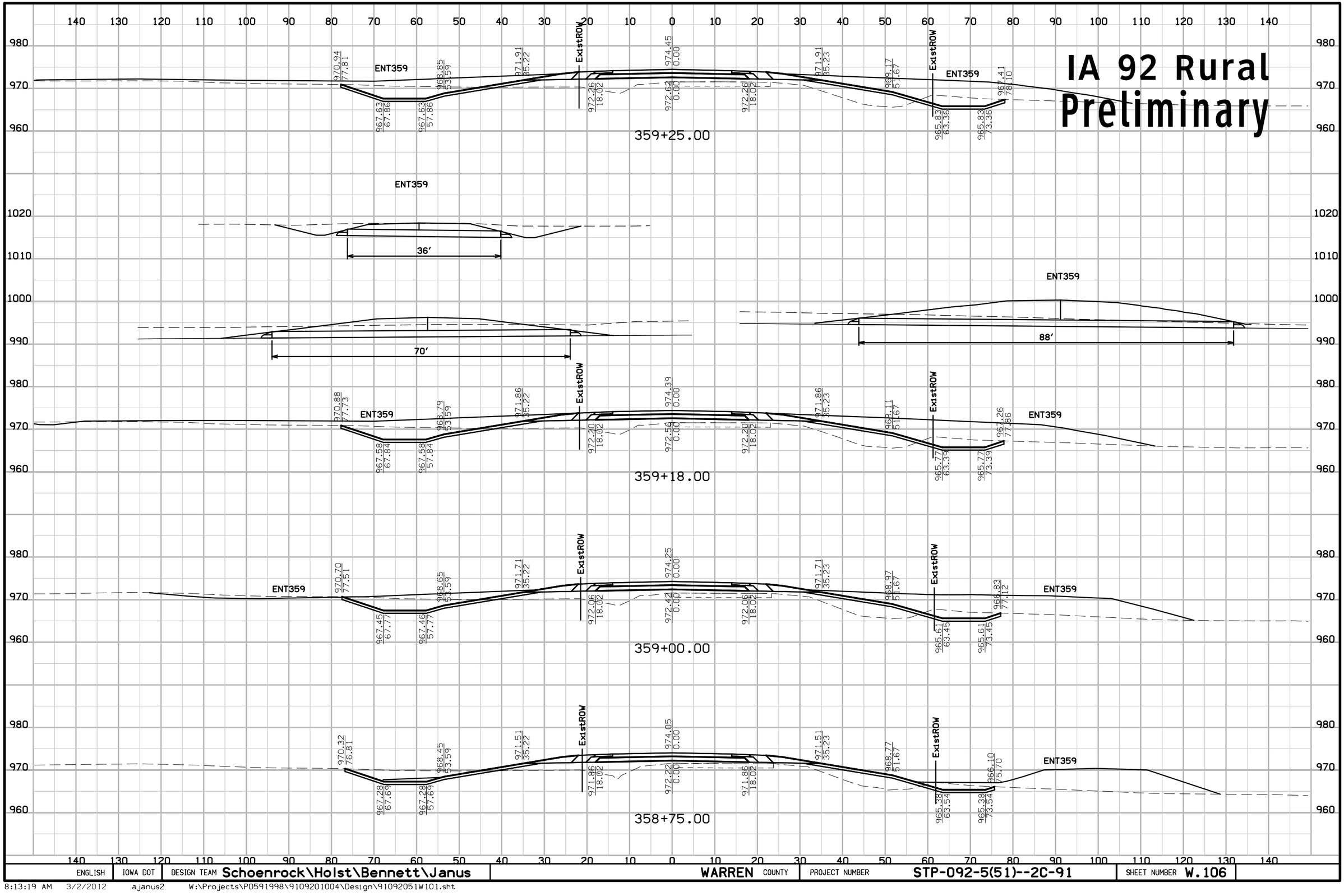
IA 92 Rural Preliminary



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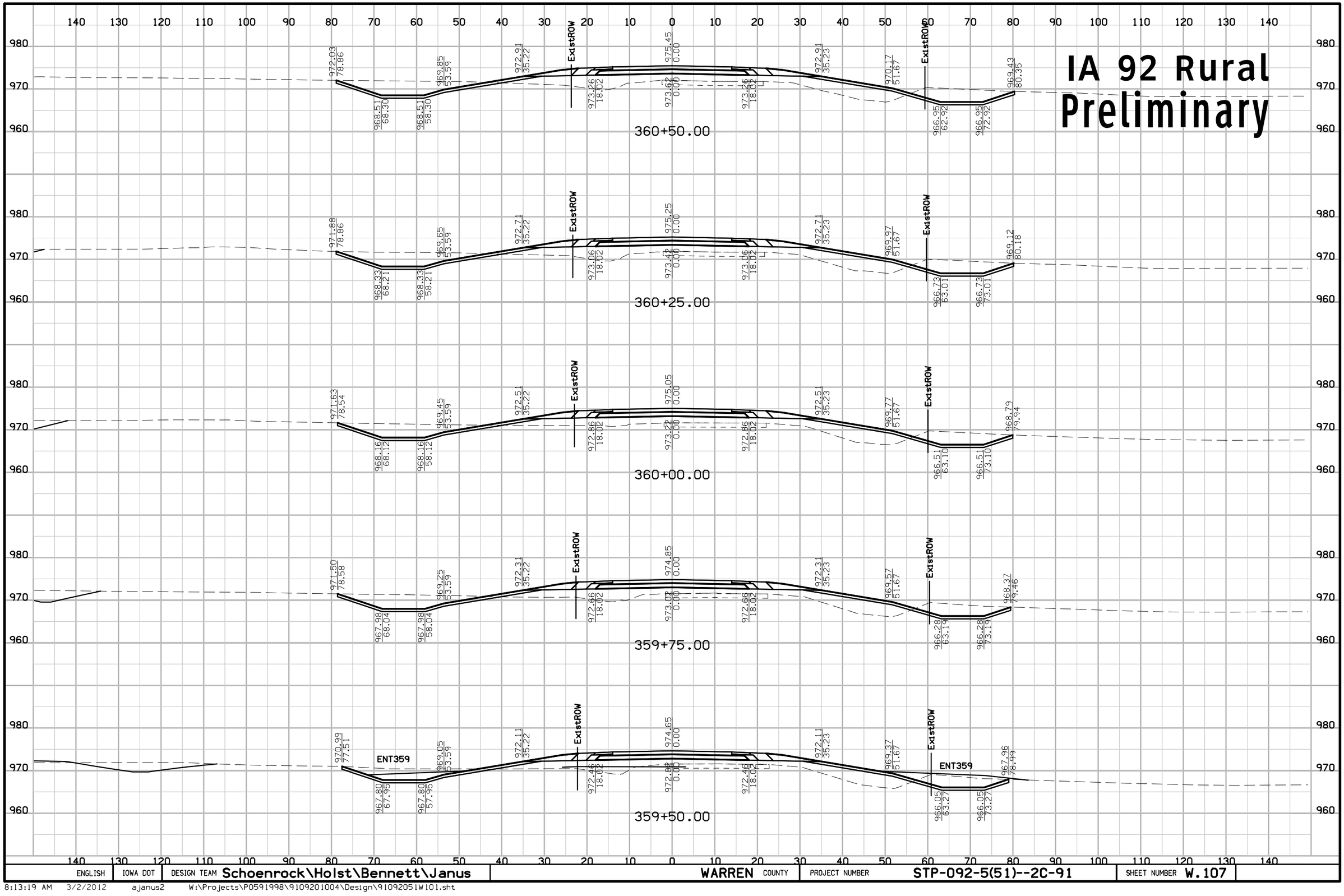
IA 92 Rural
Preliminary



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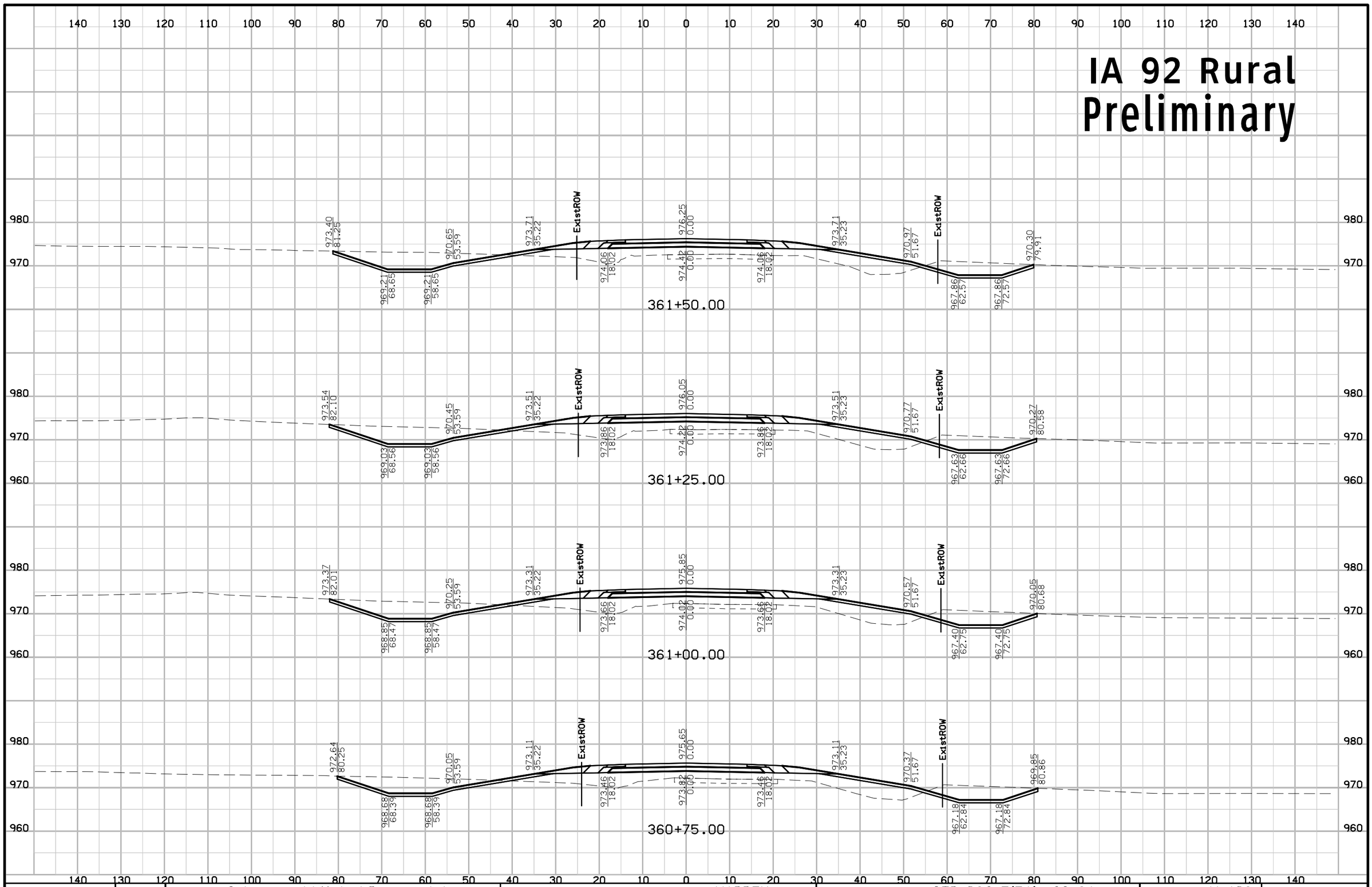
IA 92 Rural
Preliminary



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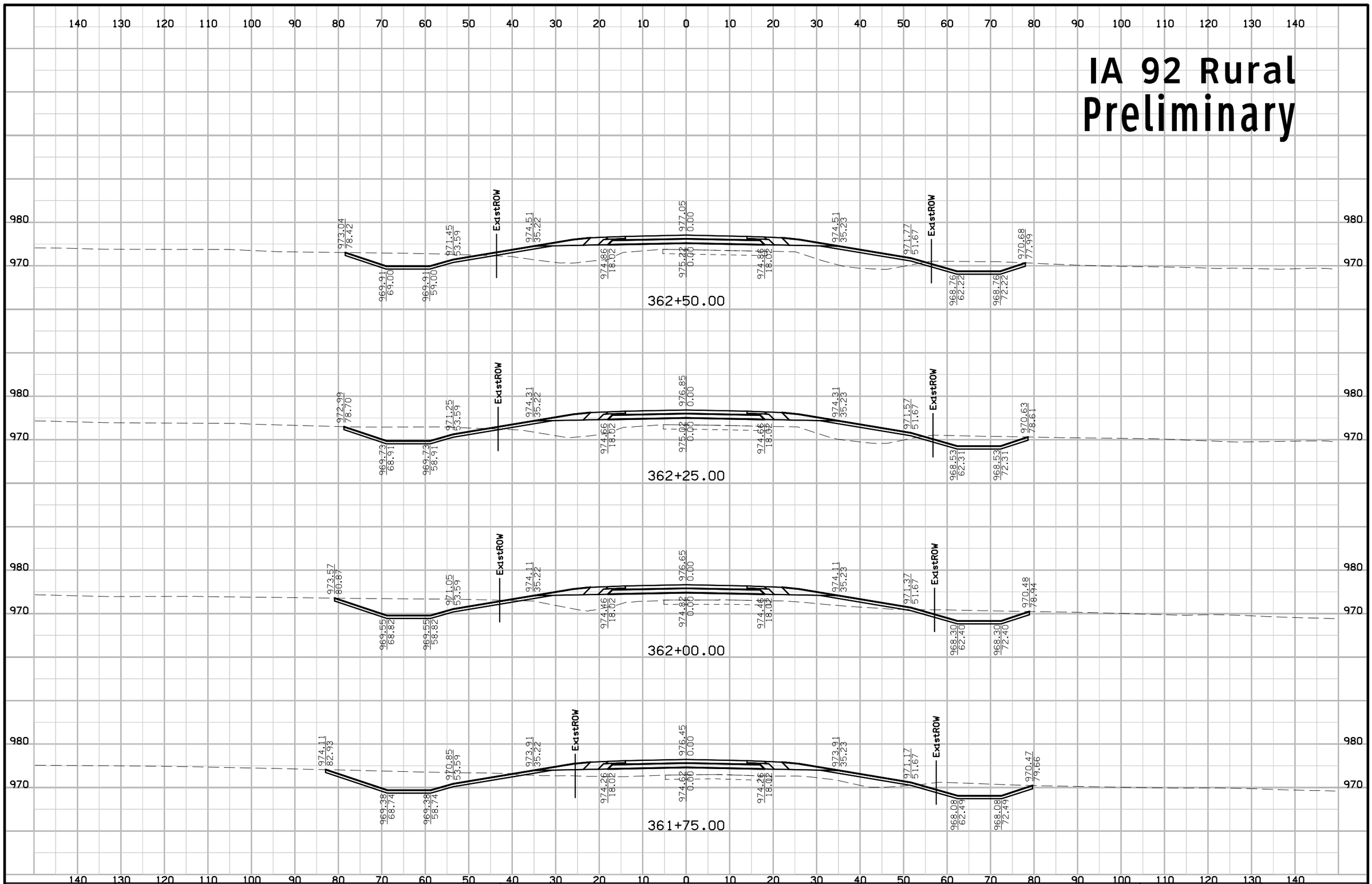
IA 92 Rural
Preliminary



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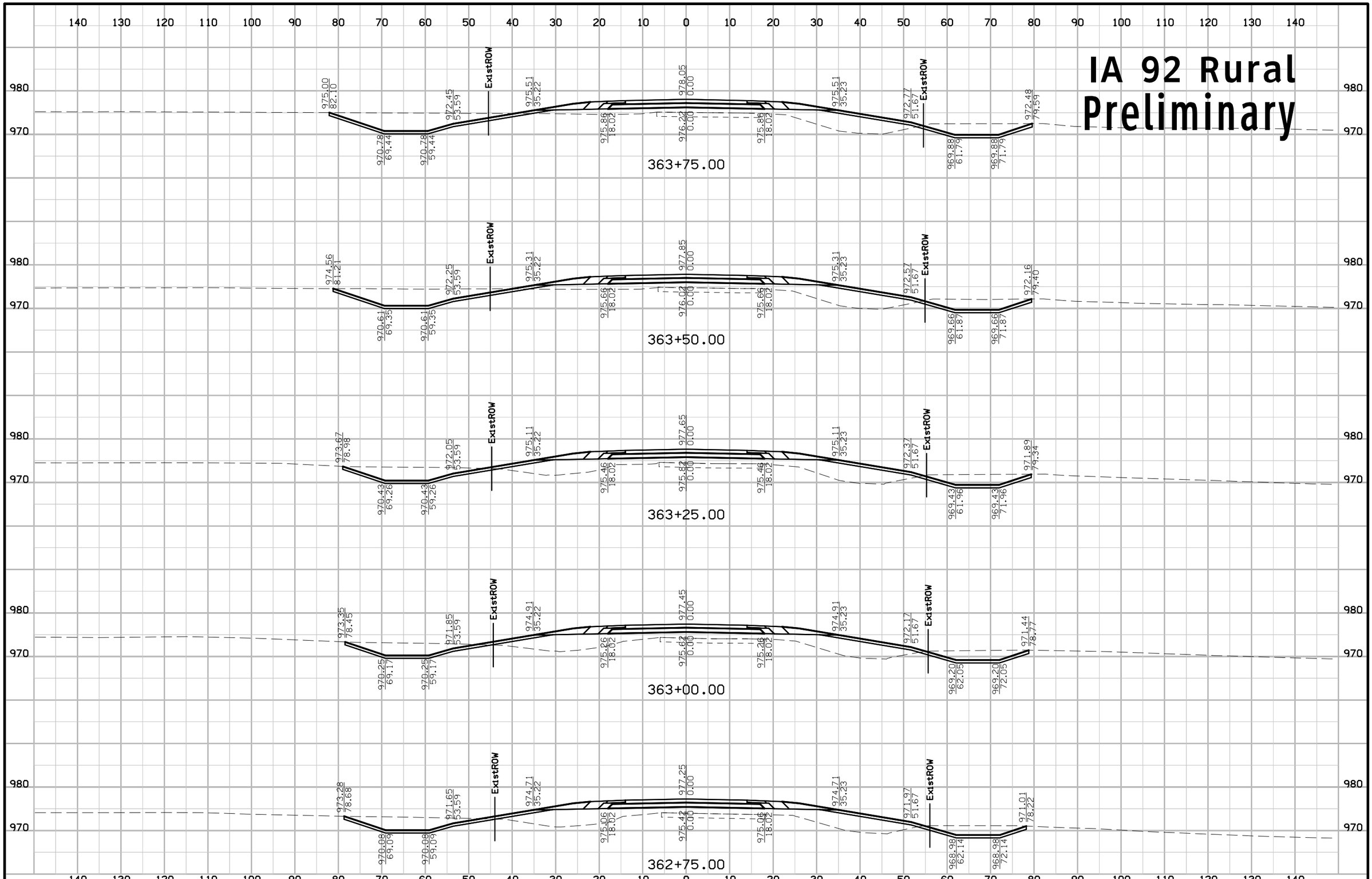
IA 92 Rural Preliminary



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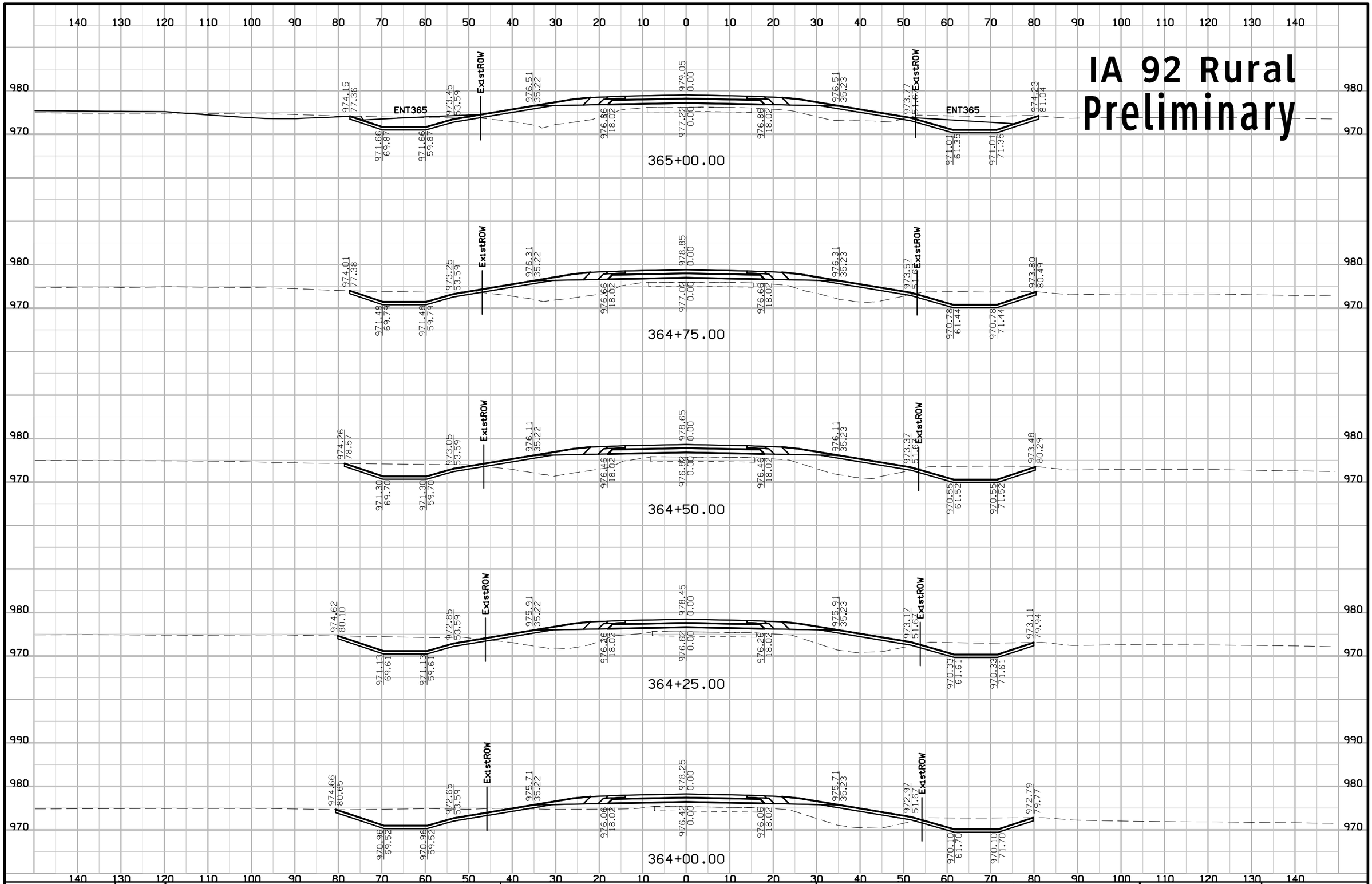
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.111

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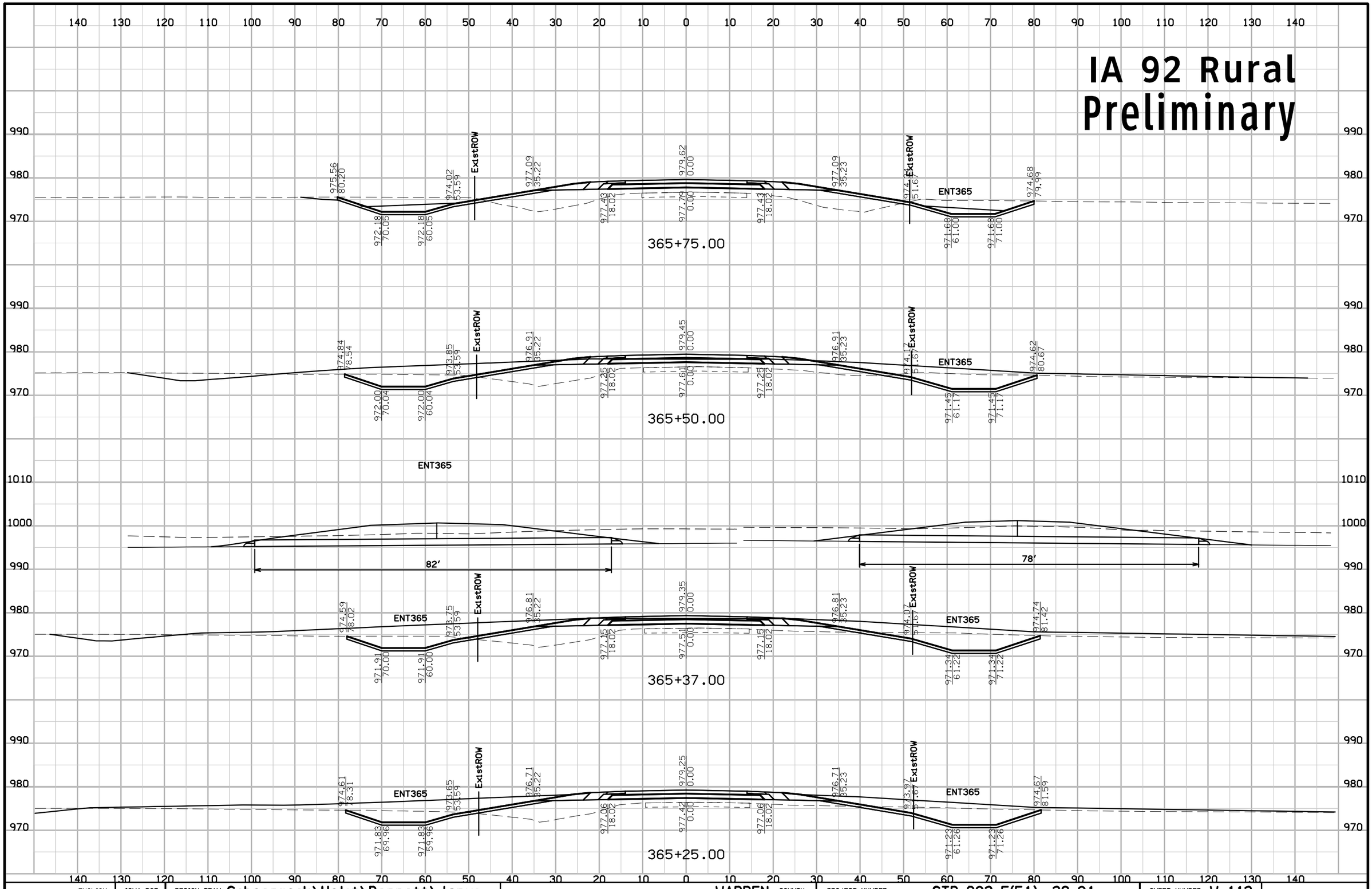
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.112

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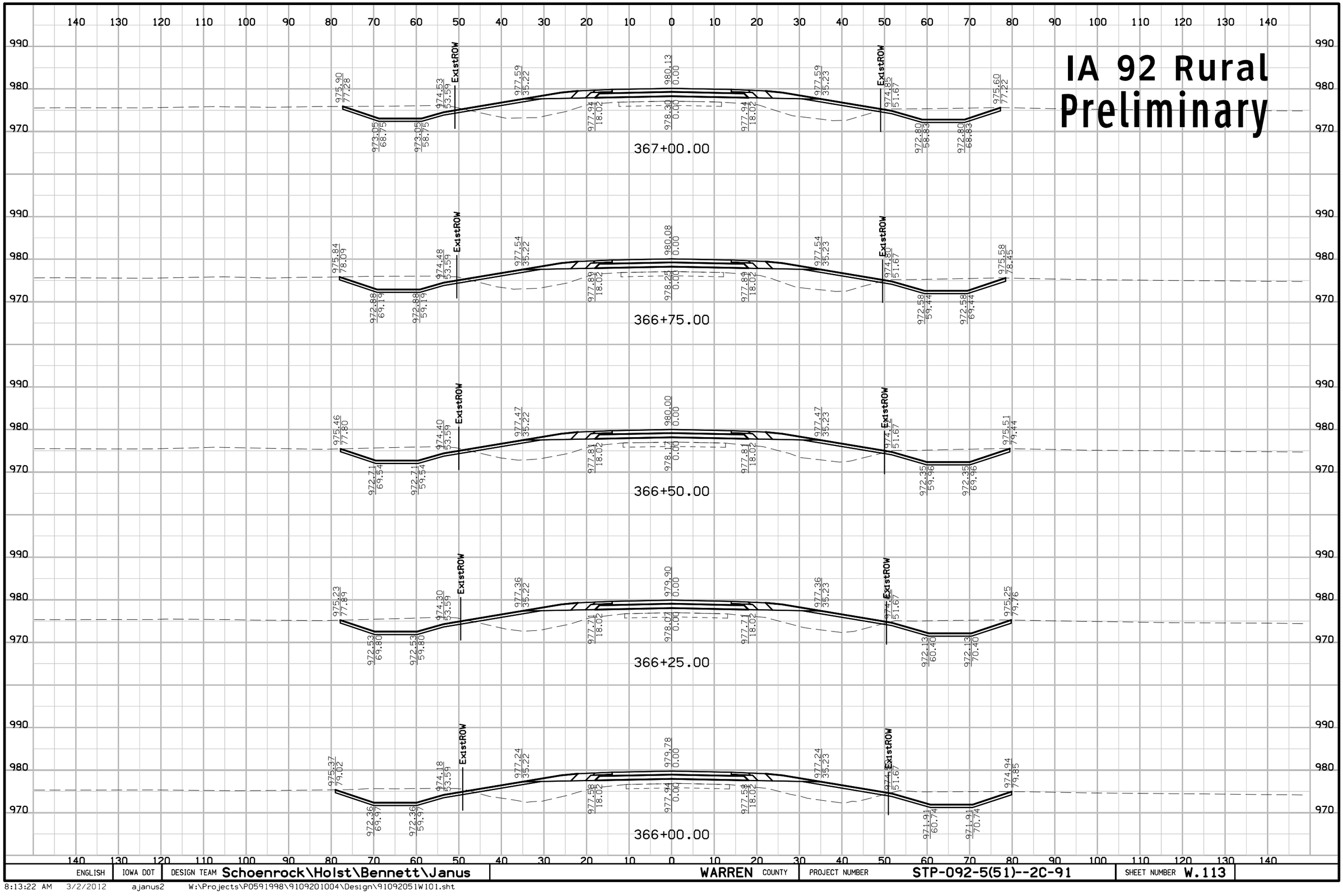
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.113

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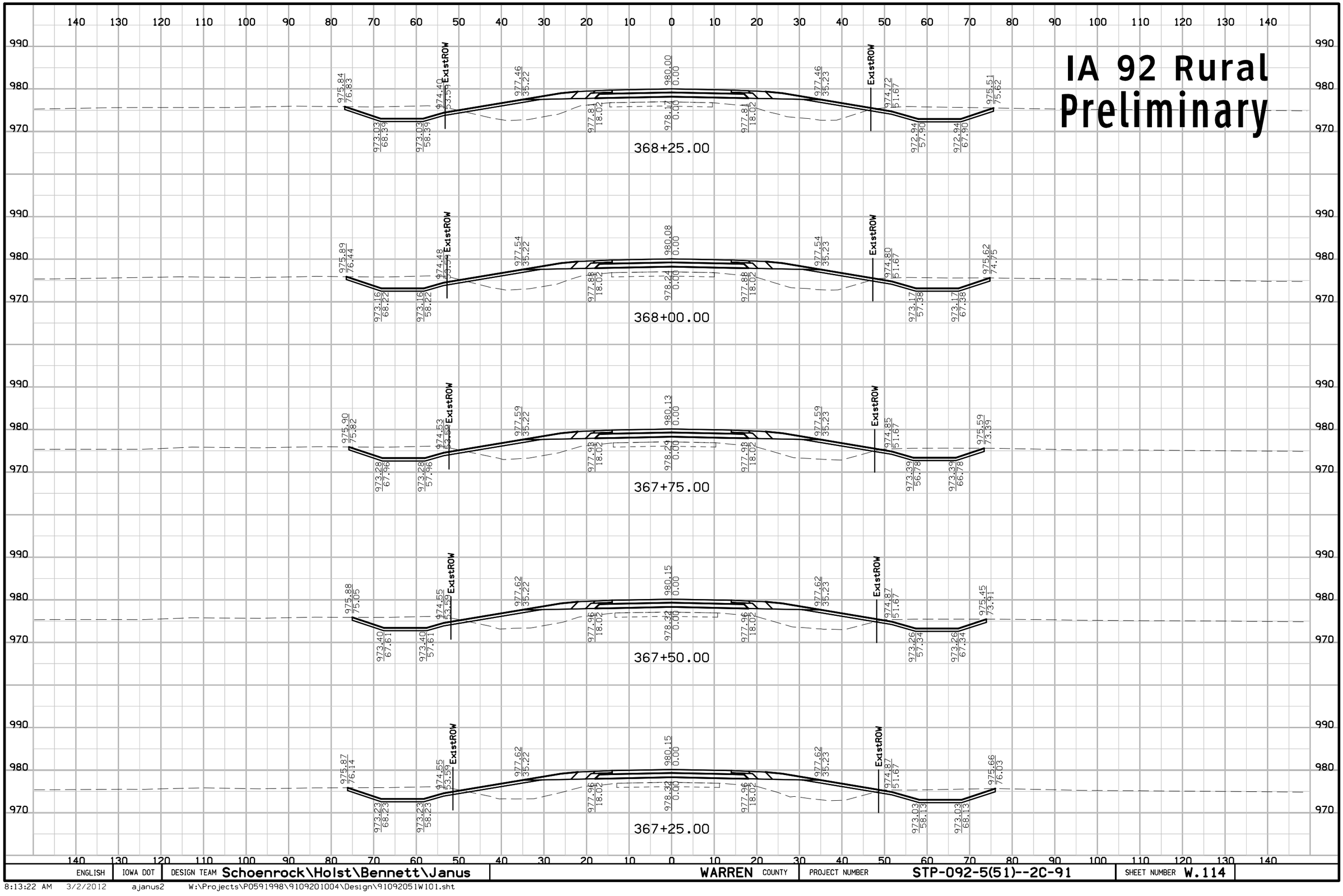
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.114

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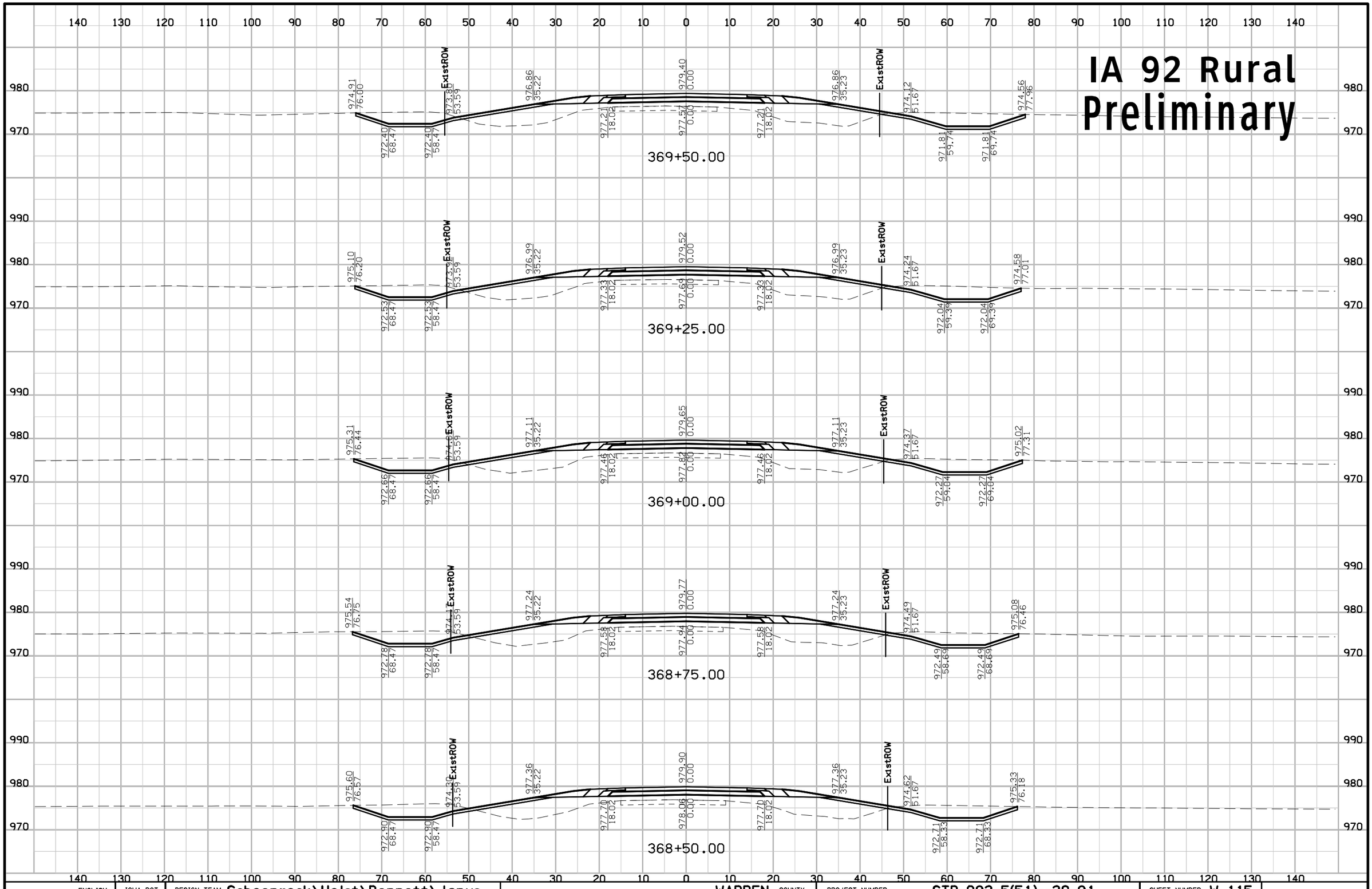
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.115

8:13:23 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051W101.sht

IA 92 Rural Preliminary

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980 970

ExistROW

974.06 75.31 | 971.78 68.47 | 971.78 58.47 | 973.17 53.59 | 976.24 35.22 | 976.58 18.02 | 978.77 0.00 | 976.94 0.00 | 976.58 18.02 | 976.24 35.23 | ExistROW | 973.49 51.67 | 970.69 61.46 | 970.69 71.49 | 973.34 79.44

370+75.00

974.26 75.55 | 971.91 68.47 | 971.91 58.47 | 973.30 53.59 | 976.36 35.22 | 976.71 18.02 | 978.90 0.00 | 977.07 0.00 | 976.71 18.02 | 976.36 35.23 | ExistROW | 973.82 51.67 | 970.92 61.14 | 970.92 71.14 | 973.51 78.93

370+50.00

974.46 75.77 | 972.03 68.47 | 972.03 58.47 | 973.42 53.59 | 976.49 35.22 | 976.83 18.02 | 979.02 0.00 | 977.19 0.00 | 976.83 18.02 | 976.49 35.23 | ExistROW | 973.74 51.67 | 971.14 60.79 | 971.14 70.79 | 973.78 78.72

370+25.00

974.65 75.97 | 972.15 68.47 | 972.15 58.47 | 973.55 53.59 | 976.61 35.22 | 976.96 18.02 | 979.15 0.00 | 977.32 0.00 | 976.96 18.02 | 976.61 35.23 | ExistROW | 973.87 51.67 | 971.37 60.44 | 971.37 70.44 | 974.01 78.38

370+00.00

974.80 76.05 | 972.28 68.47 | 972.28 58.47 | 973.67 53.59 | 976.74 35.22 | 977.08 18.02 | 979.27 0.00 | 977.44 0.00 | 977.08 18.02 | 976.74 35.23 | ExistROW | 973.99 51.67 | 971.59 60.09 | 971.59 70.09 | 974.10 77.69

369+75.00

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.116

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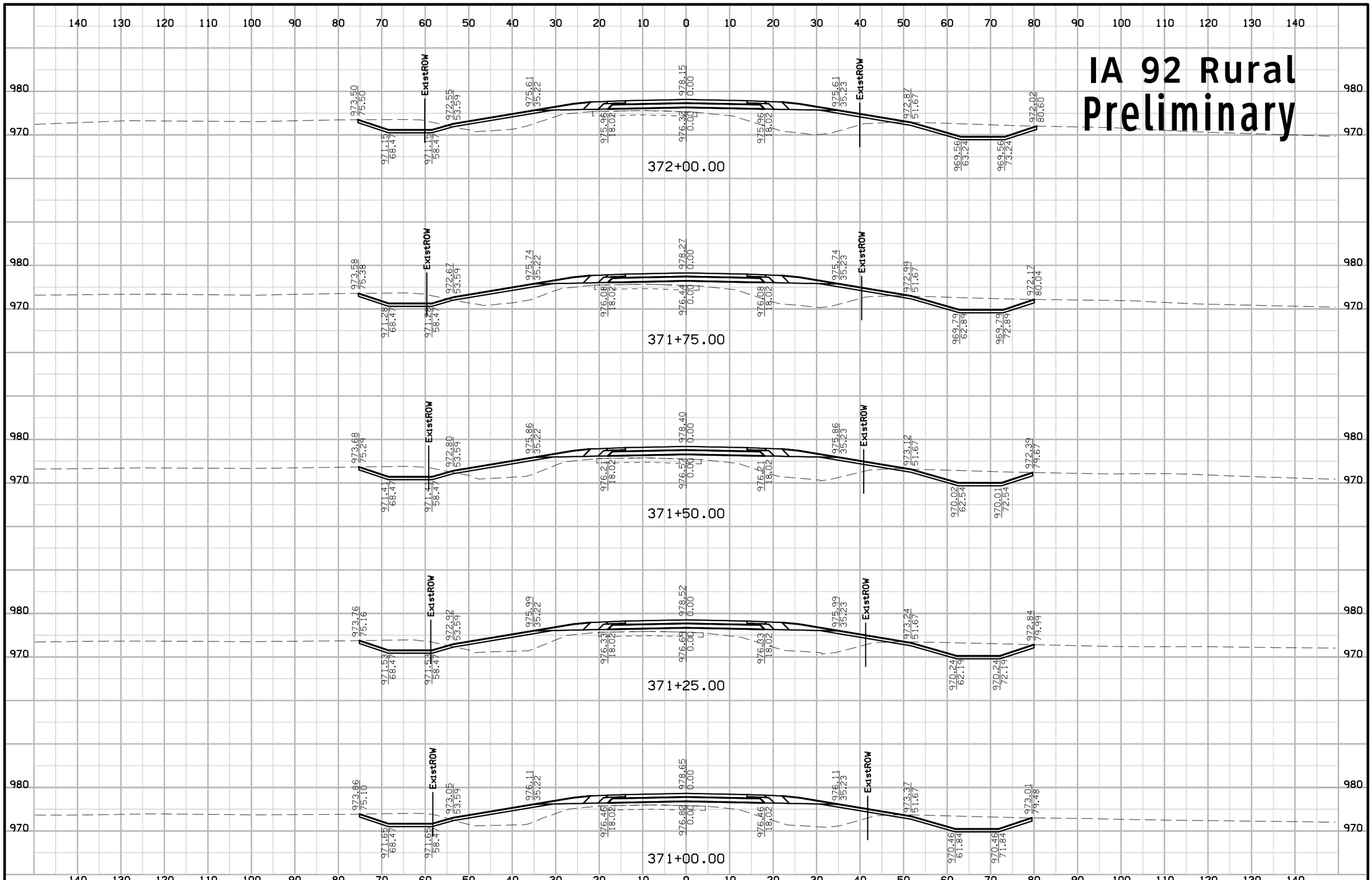
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.117

8:13:24 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051W101.sht

IA 92 Rural
Preliminary

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980 970

973.13 76.28 | ExistROW | 970.53 68.47 | 970.53 58.47 | 971.92 53.59 | 974.99 35.22 | 975.33 18.02 | 975.66 0.00 | 977.52 0.00 | 975.33 18.02 | 974.99 35.23 | ExistROW | 972.24 51.67 | 968.44 64.99 | 968.44 74.99 | 971.76 84.94

373+25.00

973.05 75.66 | ExistROW | 970.66 68.47 | 970.66 58.47 | 972.05 53.59 | 975.11 35.22 | 975.46 18.02 | 975.82 0.00 | 977.65 0.00 | 975.46 18.02 | 975.11 35.23 | ExistROW | 972.37 51.67 | 968.67 64.64 | 968.67 74.64 | 971.81 84.09

373+00.00

973.06 75.33 | ExistROW | 970.78 68.47 | 970.78 58.47 | 972.17 53.59 | 975.24 35.22 | 975.58 18.02 | 975.94 0.00 | 977.77 0.00 | 975.58 18.02 | 975.24 35.23 | ExistROW | 972.49 51.67 | 968.89 64.29 | 968.89 74.29 | 971.67 82.64

372+75.00

972.93 74.54 | ExistROW | 970.90 68.47 | 970.90 58.47 | 972.30 53.59 | 975.36 35.22 | 975.71 18.02 | 976.07 0.00 | 977.90 0.00 | 975.71 18.02 | 975.36 35.23 | ExistROW | 972.62 51.67 | 969.12 63.94 | 969.12 73.94 | 971.11 79.93

372+50.00

973.19 74.95 | ExistROW | 971.03 68.47 | 971.03 58.47 | 972.42 53.59 | 975.49 35.22 | 975.83 18.02 | 976.19 0.00 | 978.02 0.00 | 975.83 18.02 | 975.49 35.23 | ExistROW | 972.74 51.67 | 969.34 63.59 | 969.34 73.59 | 971.65 80.53

372+25.00

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 Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.118

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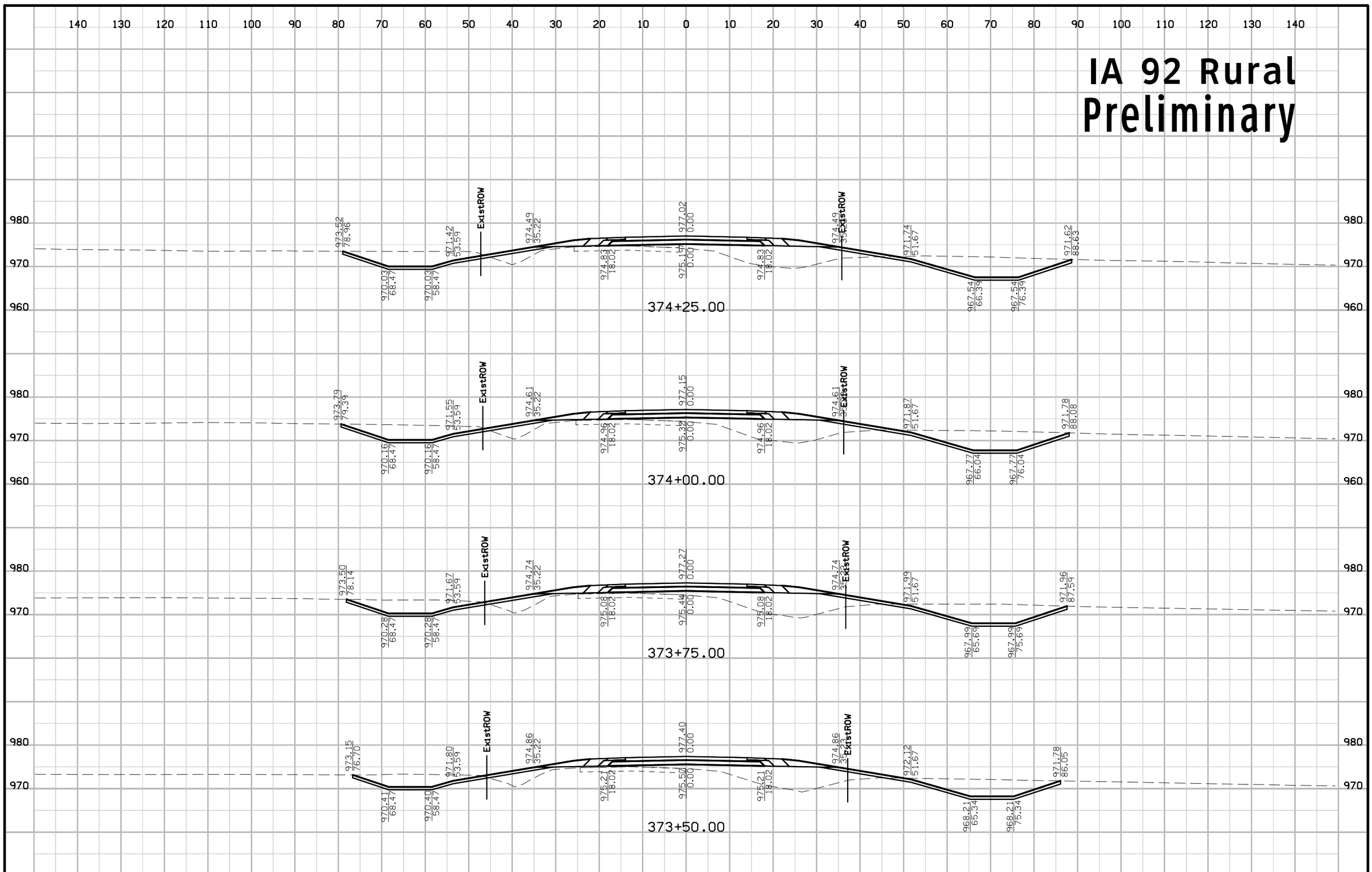
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.119

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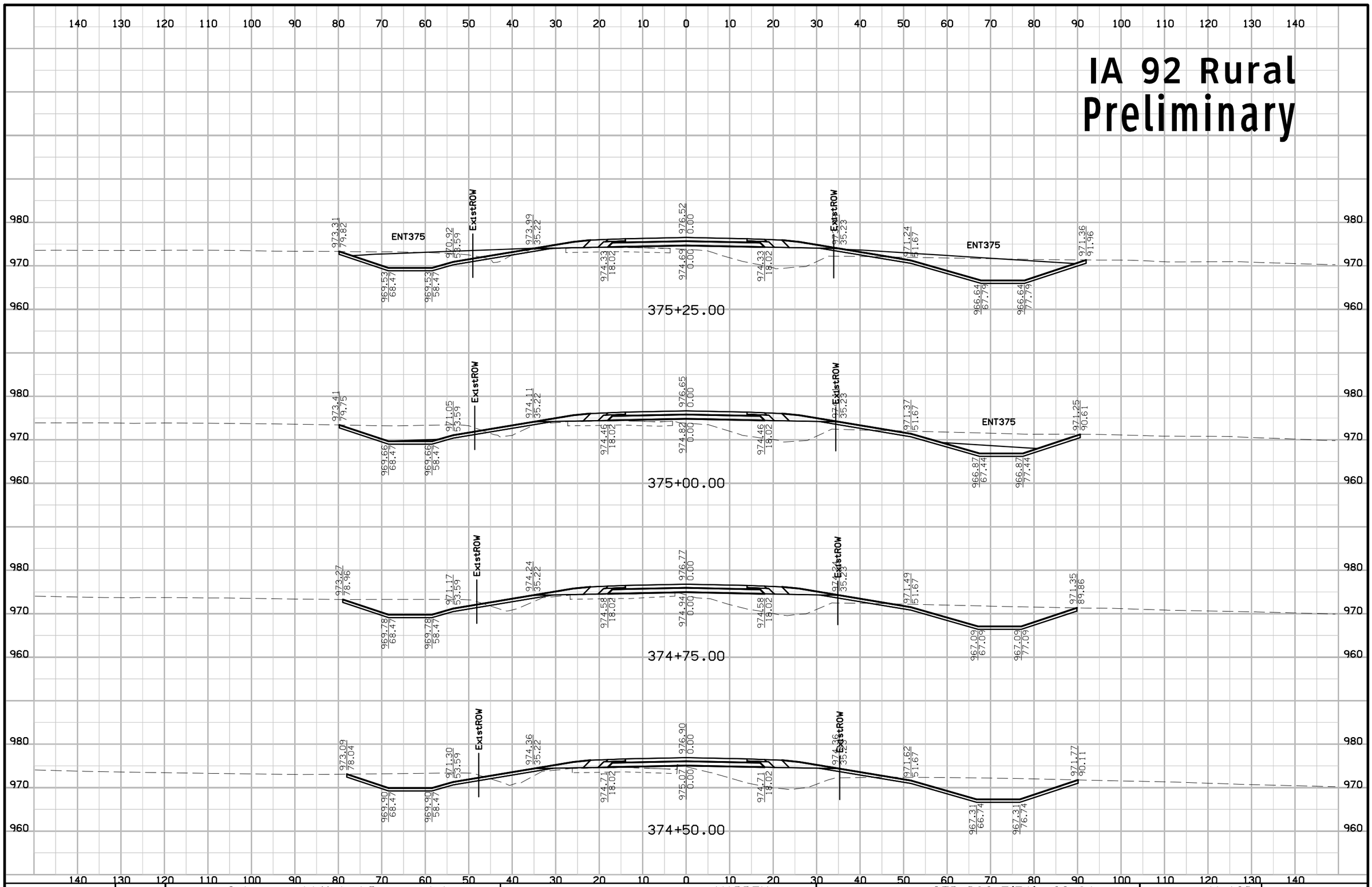
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.120

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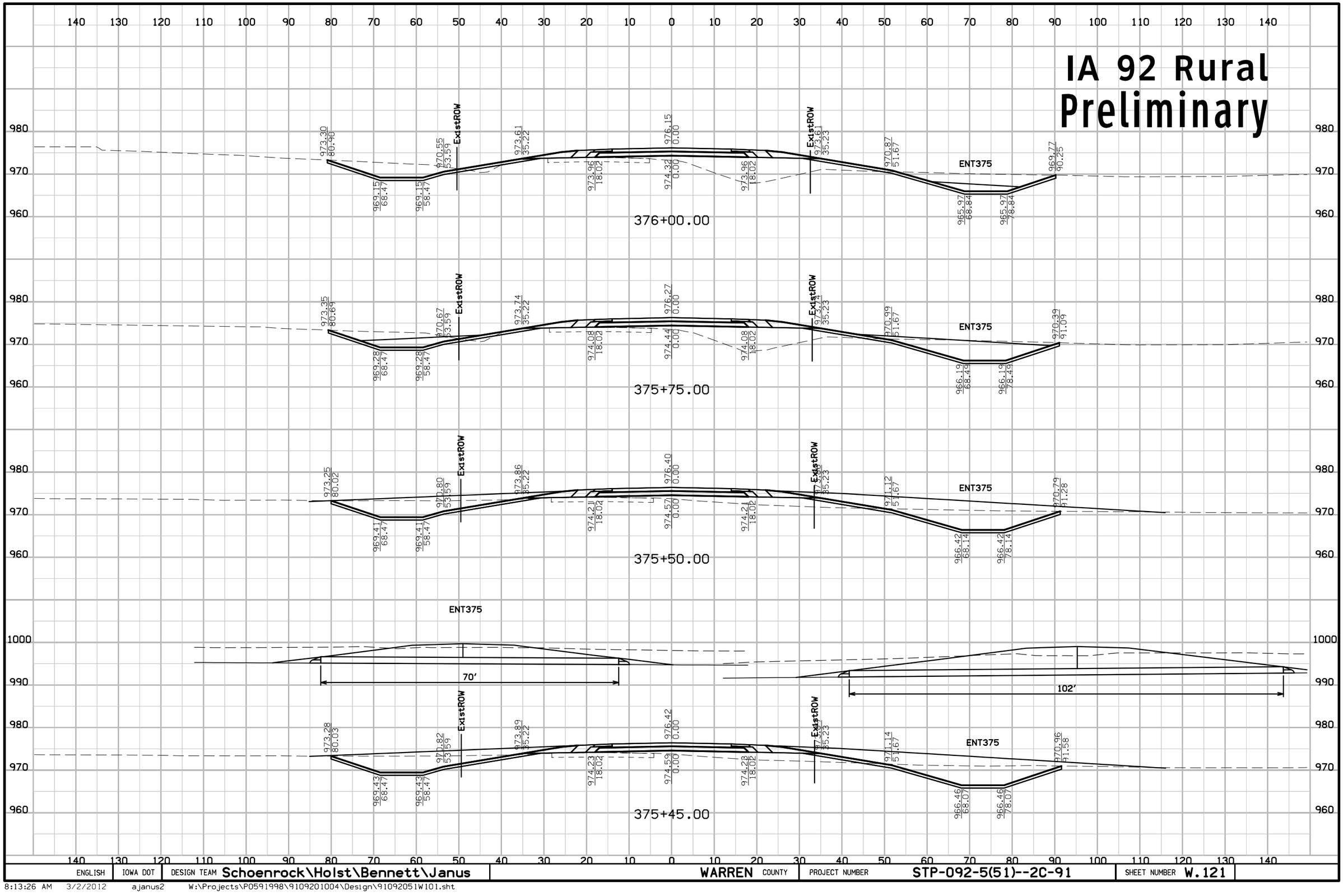
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.121

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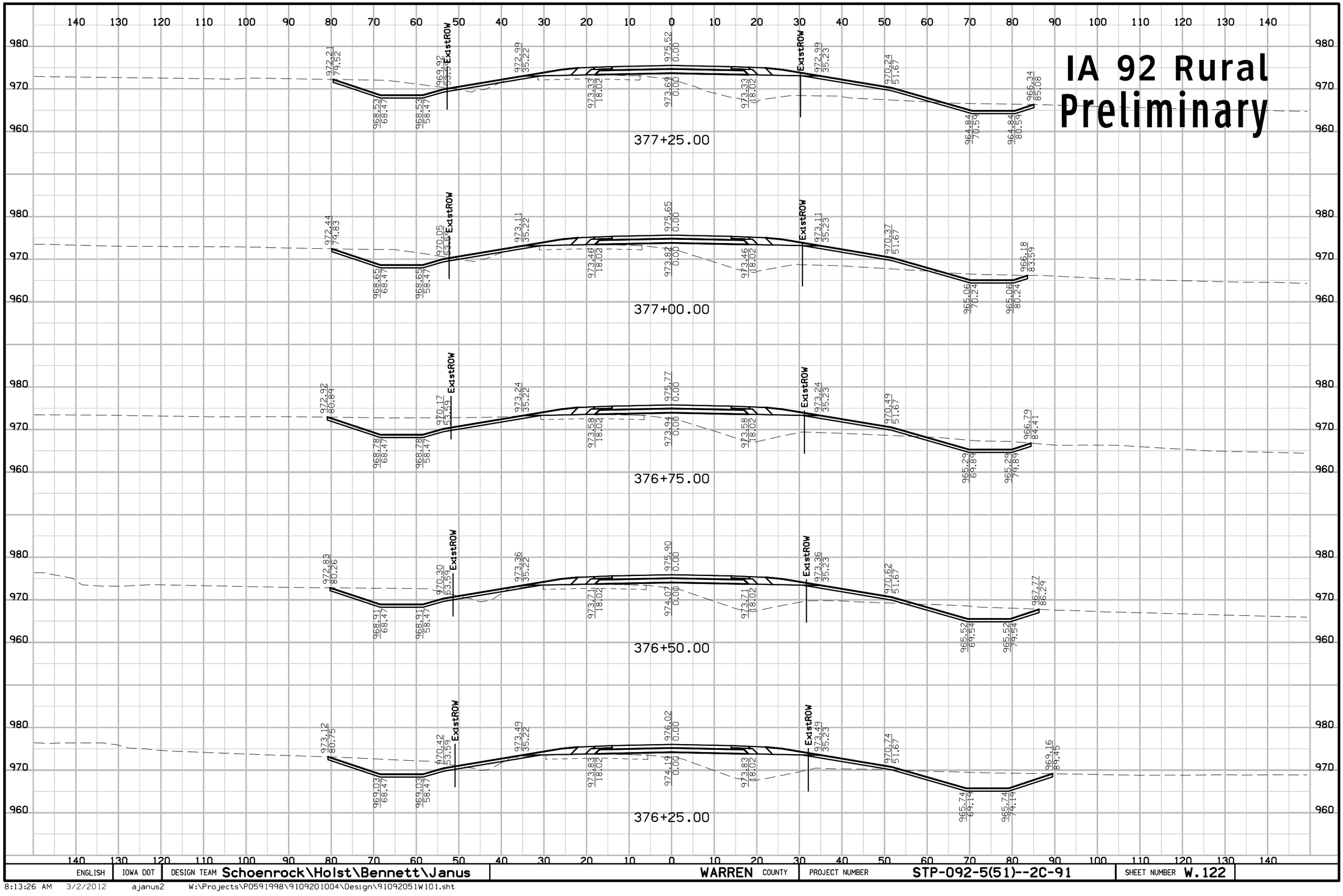
IA 92 Rural
Preliminary



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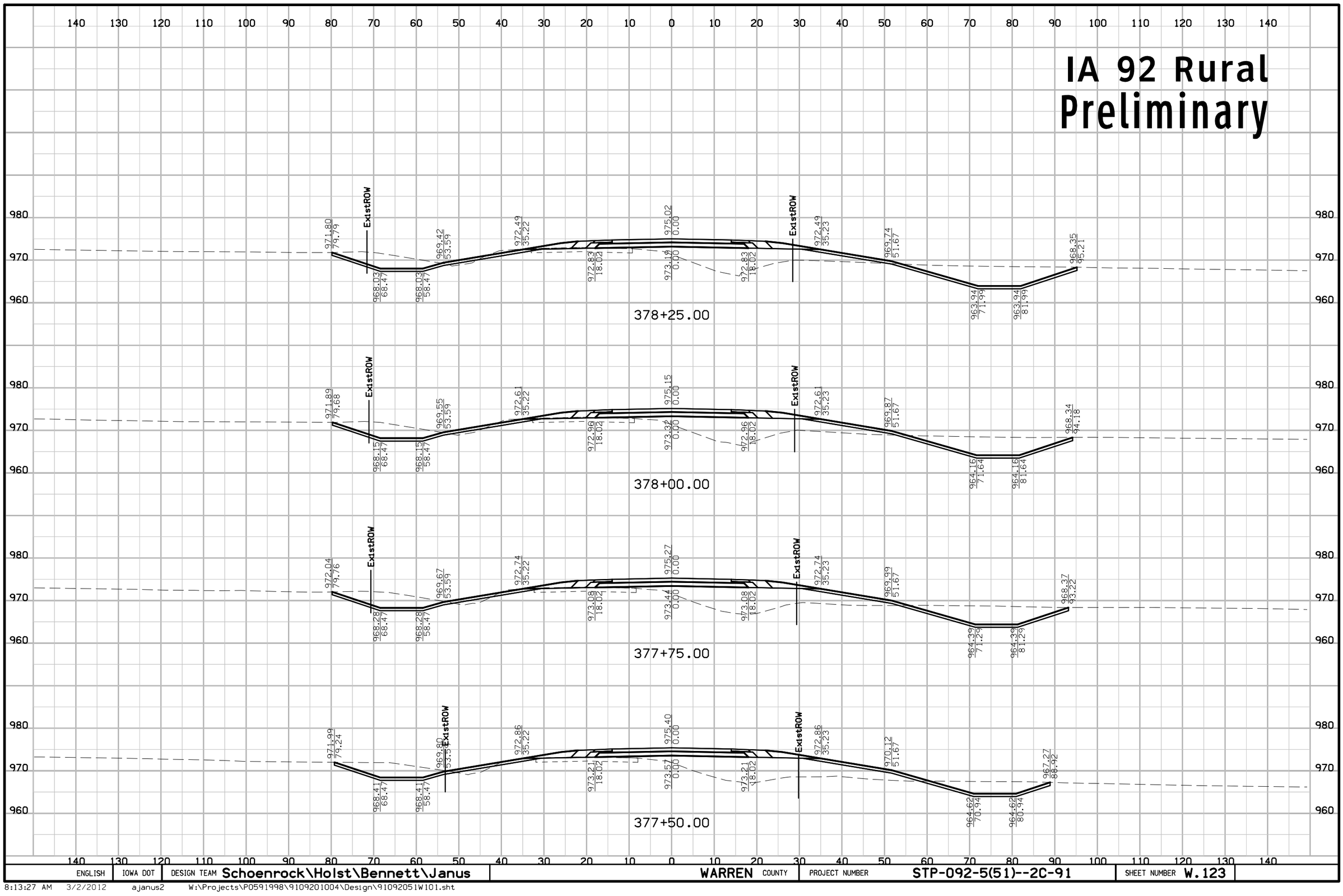
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.123

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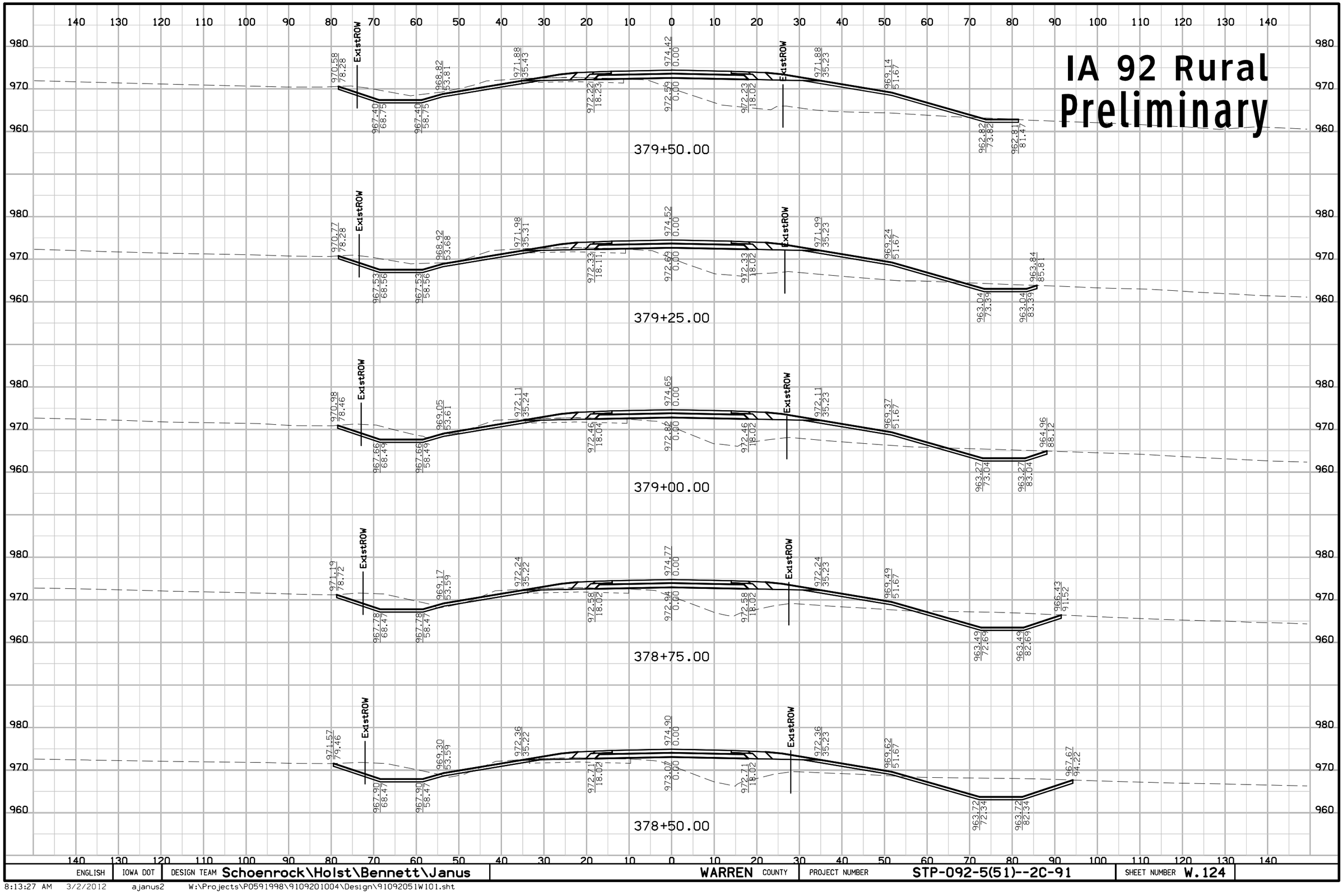
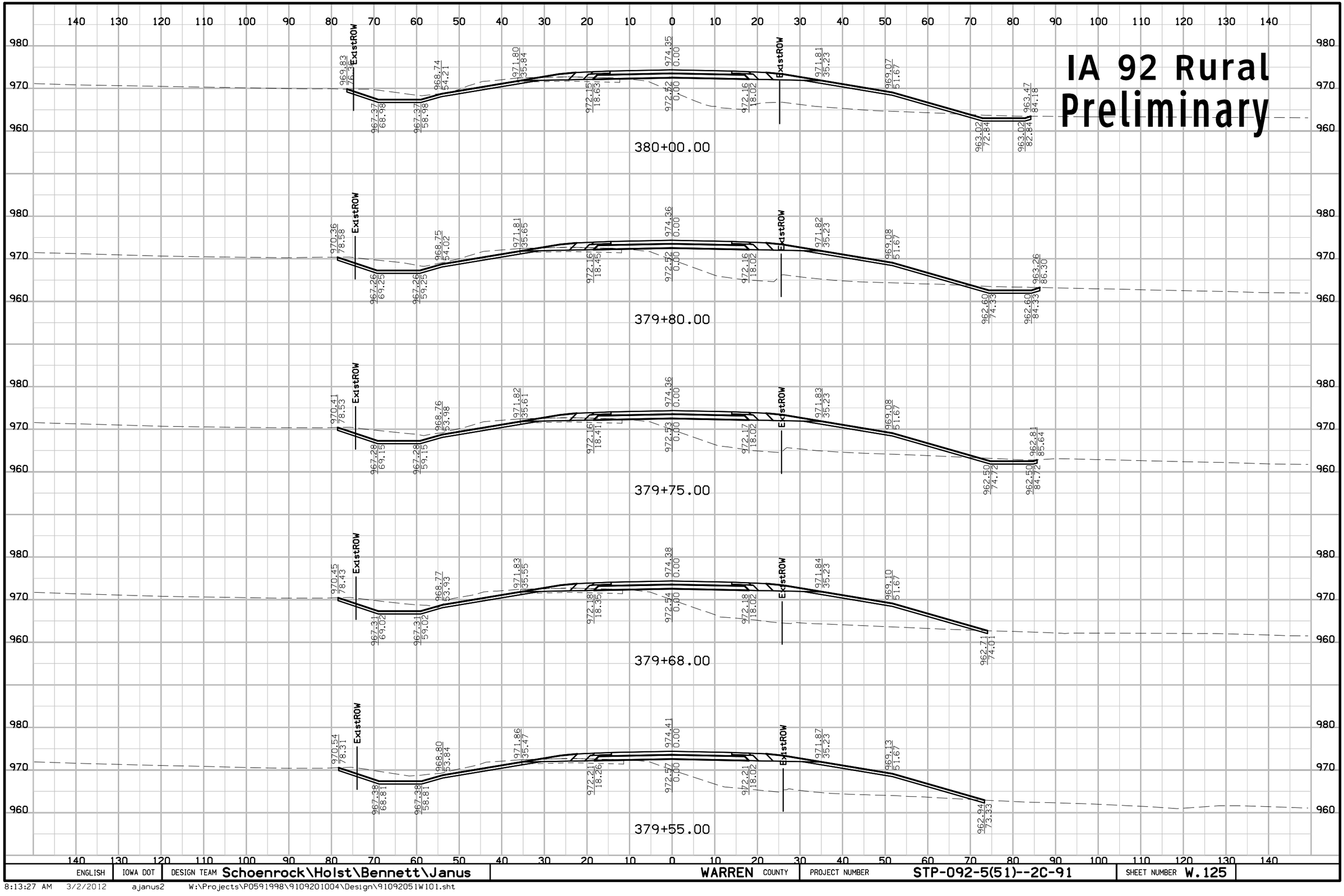
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.124

8:13:27 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051W101.sht

IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.125

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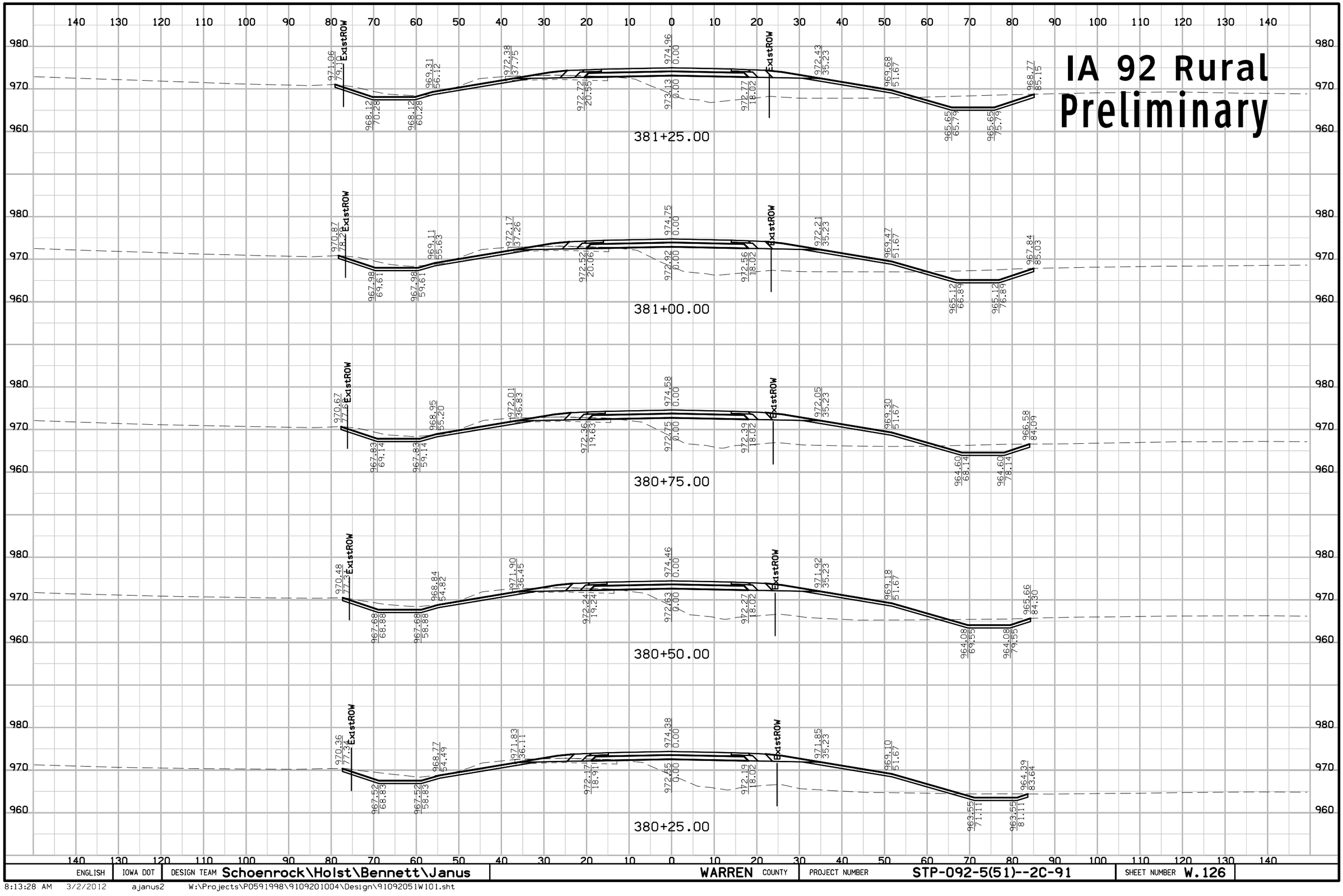
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.126

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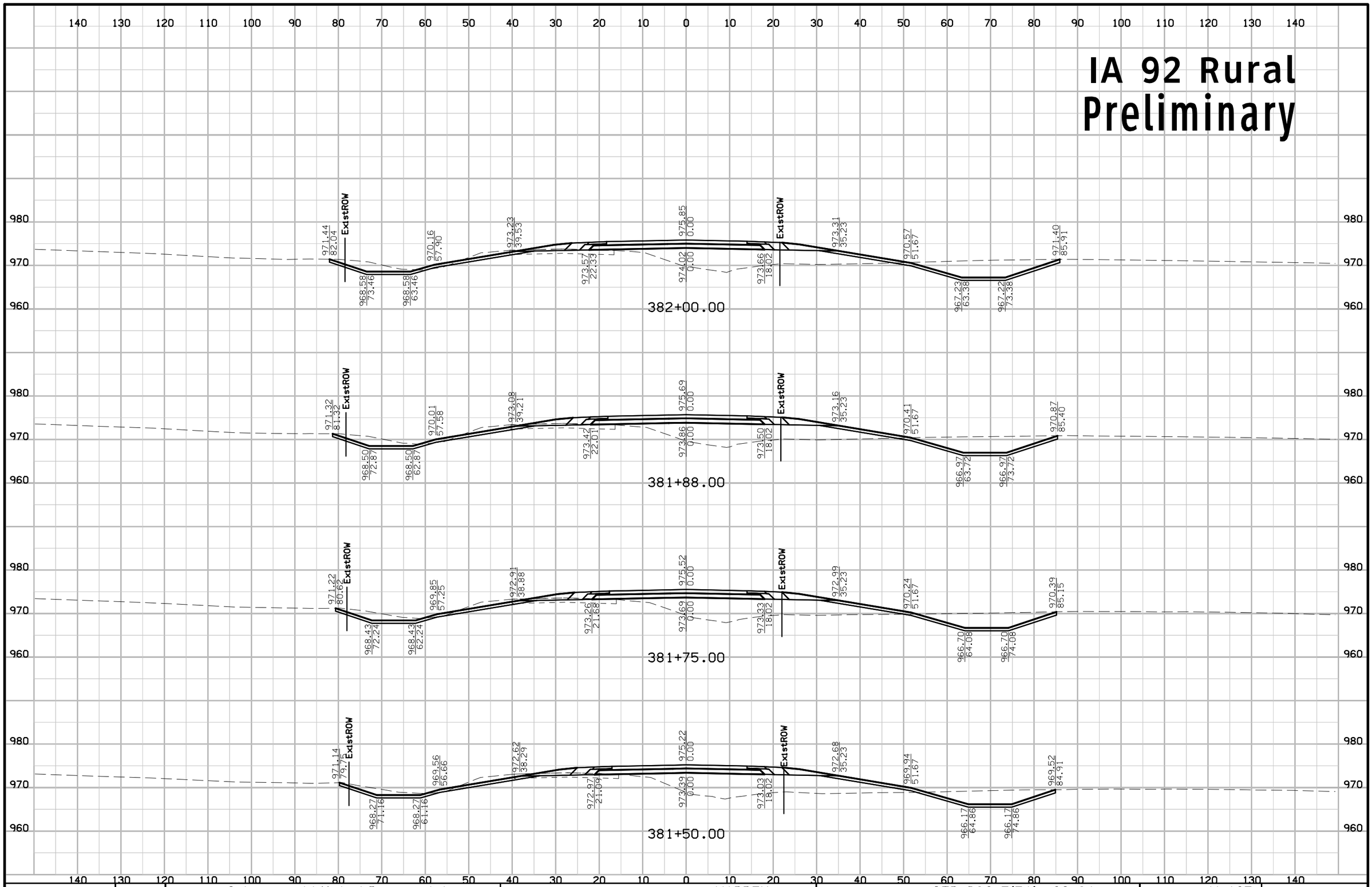
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.127

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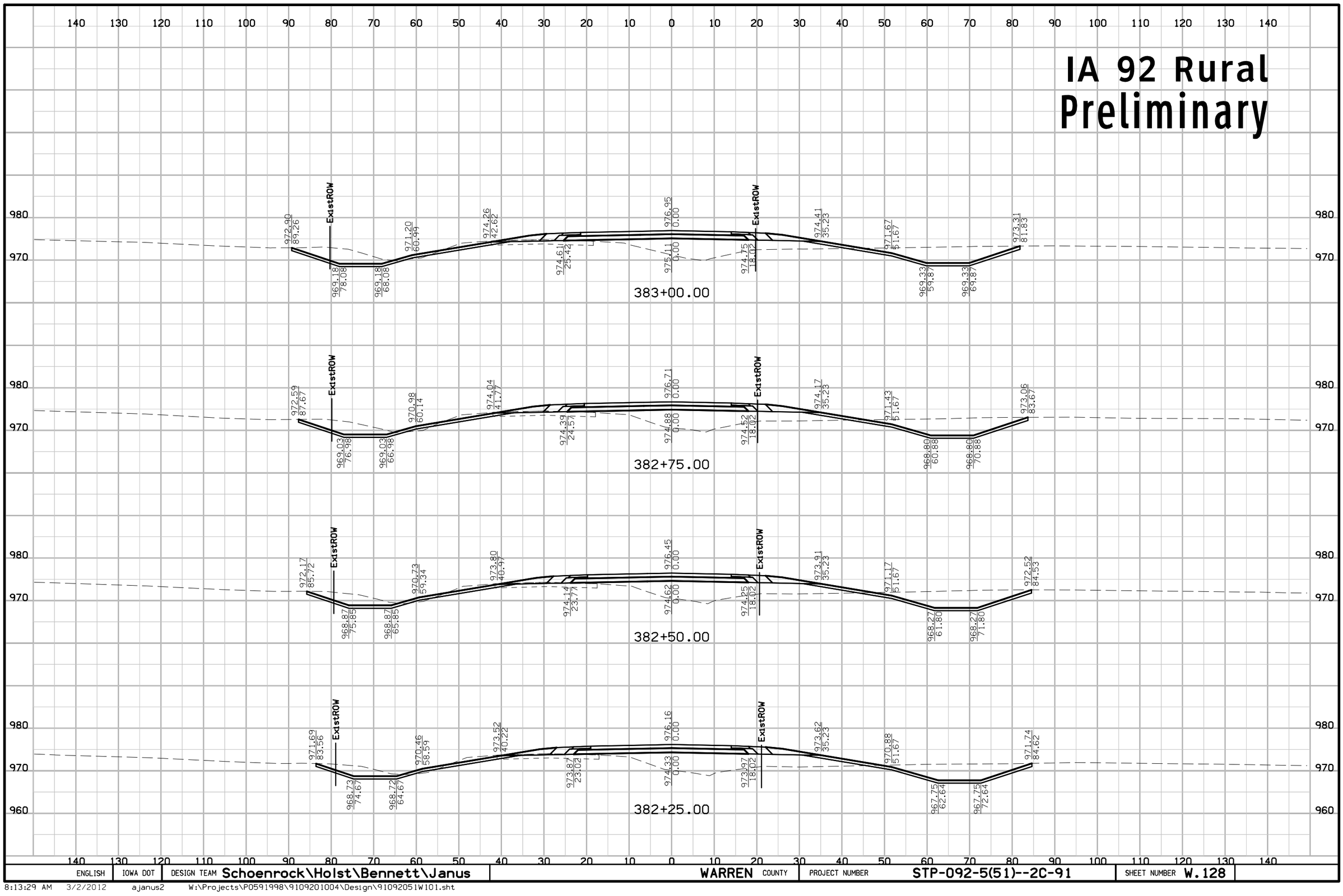
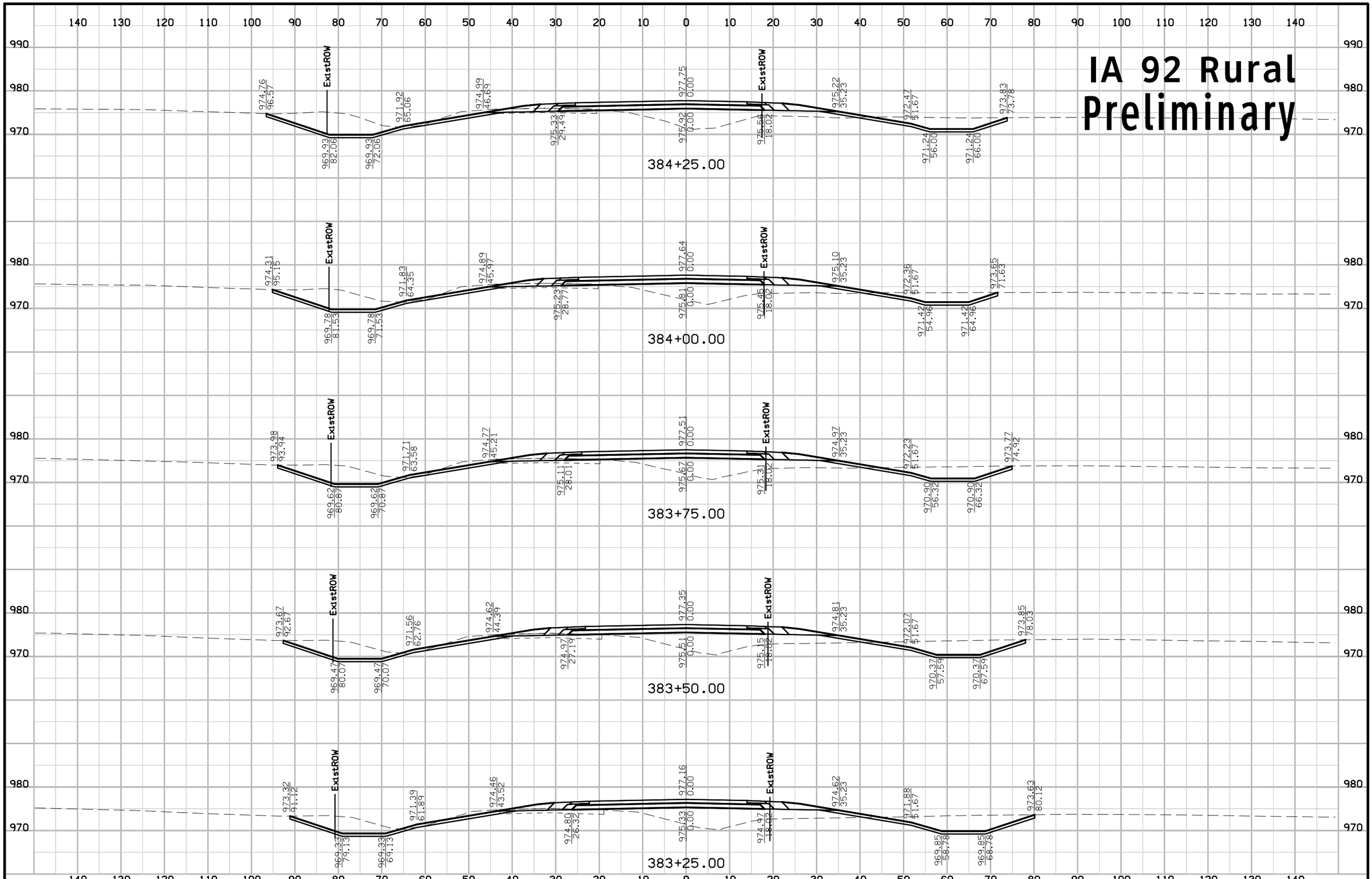
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.128

8:13:29 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051W101.sht

IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.129

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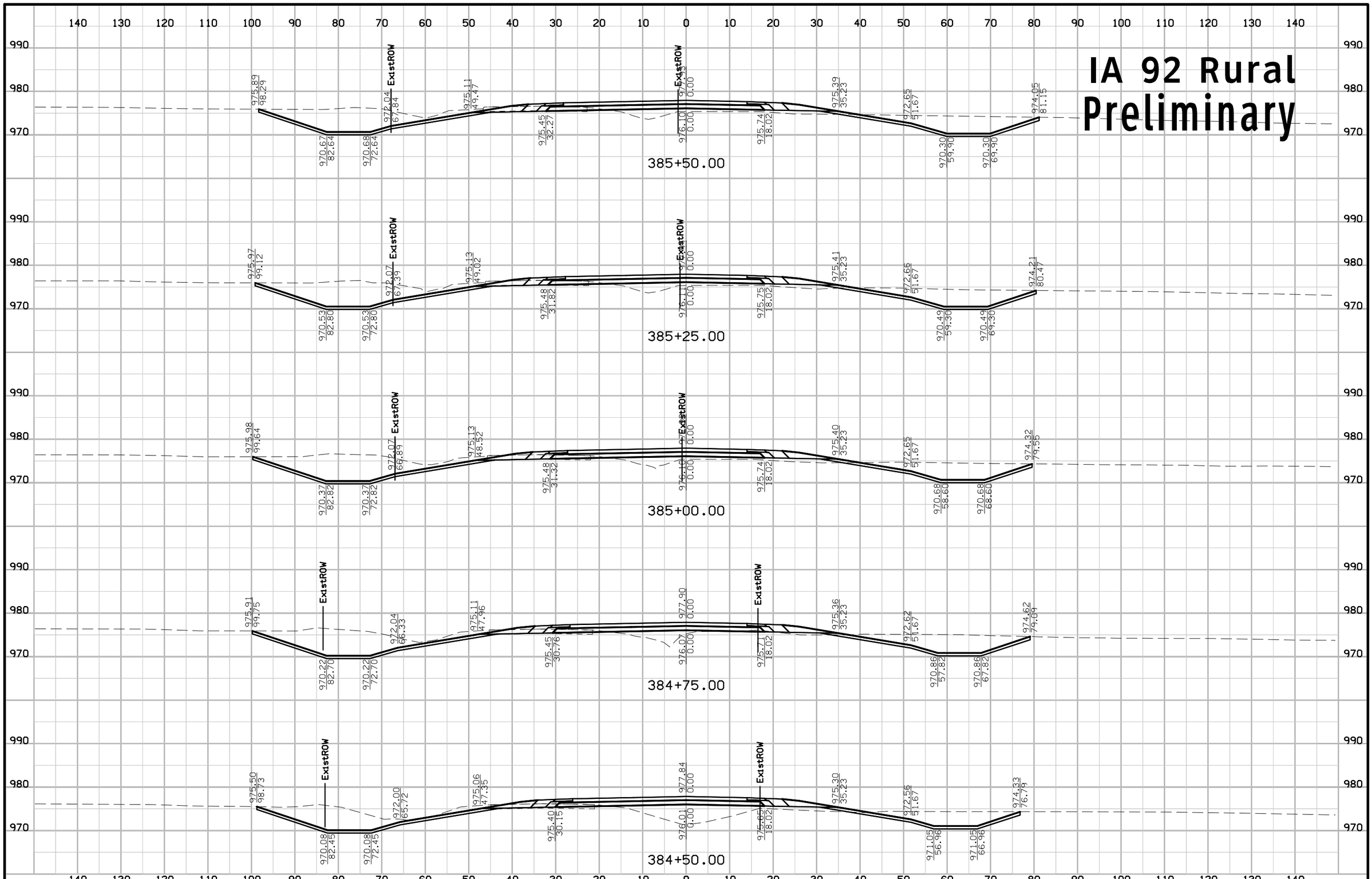
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.130

8:13:30 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051W101.sht

IA 92 Rural Preliminary

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

990 980 970

ExistROW

975.85 93.07 | 971.42 79.80 | 971.42 69.80 | 971.56 69.33 | 974.62 50.96 | 974.97 33.76 | 977.48 0.00 | 975.64 0.00 | 975.28 18.02 | 974.94 35.23 | 972.20 51.67 | 969.36 61.59 | 969.36 71.59 | 973.29 83.38

386+75.00

975.86 94.39 | 971.28 80.64 | 971.28 70.64 | 971.71 69.14 | 974.77 50.76 | 975.11 33.56 | 977.62 0.00 | 975.78 0.00 | 975.42 18.02 | 975.08 35.23 | 972.34 51.67 | 969.55 61.43 | 969.55 71.43 | 973.27 82.60

386+50.00

975.91 95.70 | 971.12 81.35 | 971.12 71.35 | 971.83 68.89 | 974.89 50.52 | 975.23 33.32 | 977.73 0.00 | 975.90 0.00 | 975.54 18.02 | 975.20 35.23 | 972.45 51.67 | 969.74 61.18 | 969.74 71.18 | 973.24 81.70

386+25.00

975.95 96.85 | 970.97 81.91 | 970.97 71.91 | 971.32 68.59 | 974.99 50.42 | 975.33 33.02 | 977.82 0.00 | 975.99 0.00 | 975.63 18.02 | 975.29 35.23 | 972.54 51.67 | 969.93 60.84 | 969.93 70.84 | 973.33 81.06

386+00.00

975.89 97.53 | 970.83 82.35 | 970.83 72.35 | 972.00 68.25 | 975.06 49.87 | 975.40 32.67 | 977.89 0.00 | 976.06 0.00 | 975.70 18.02 | 975.35 35.23 | 972.61 51.67 | 970.11 60.41 | 970.11 70.41 | 973.34 80.11

385+75.00

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.131

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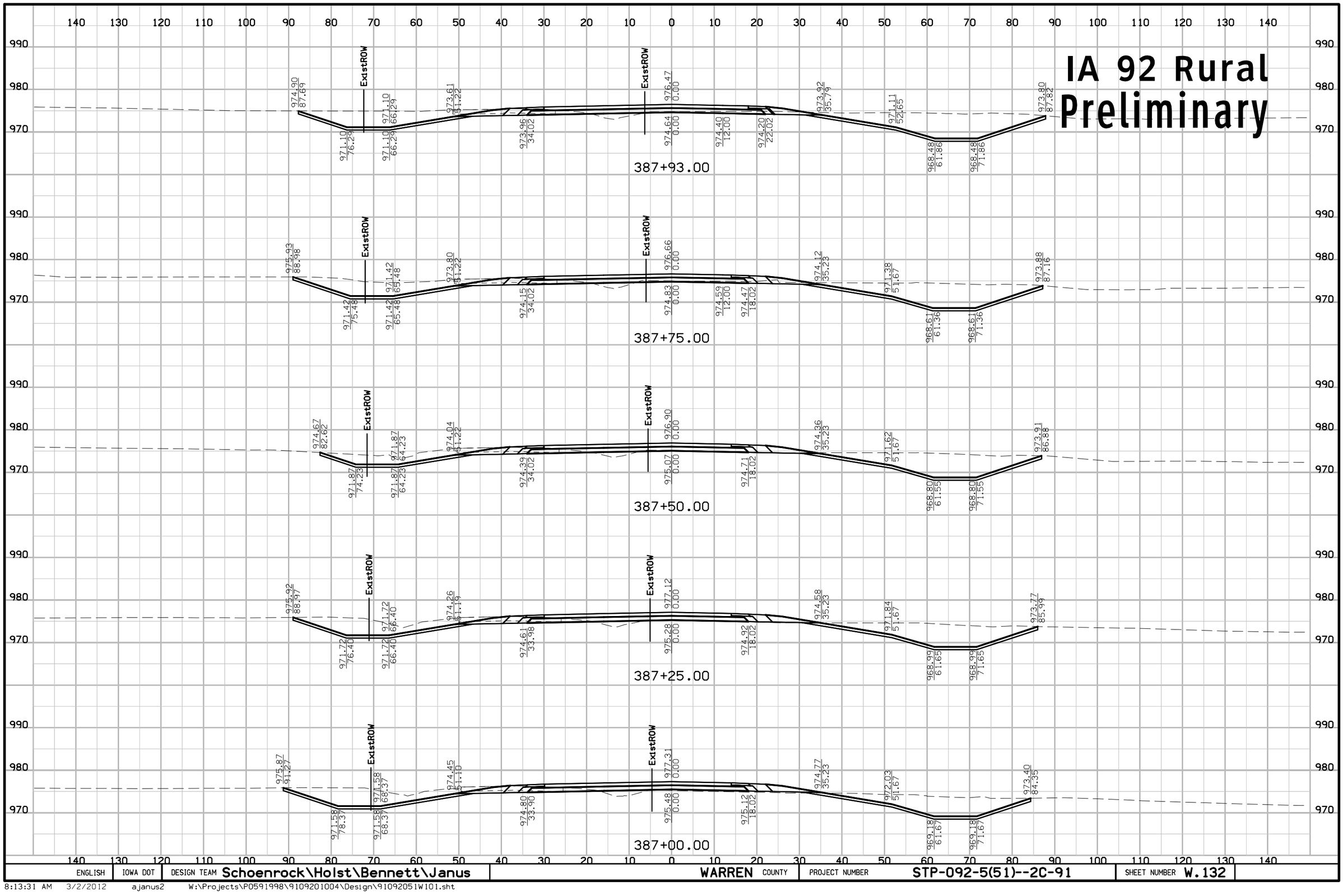
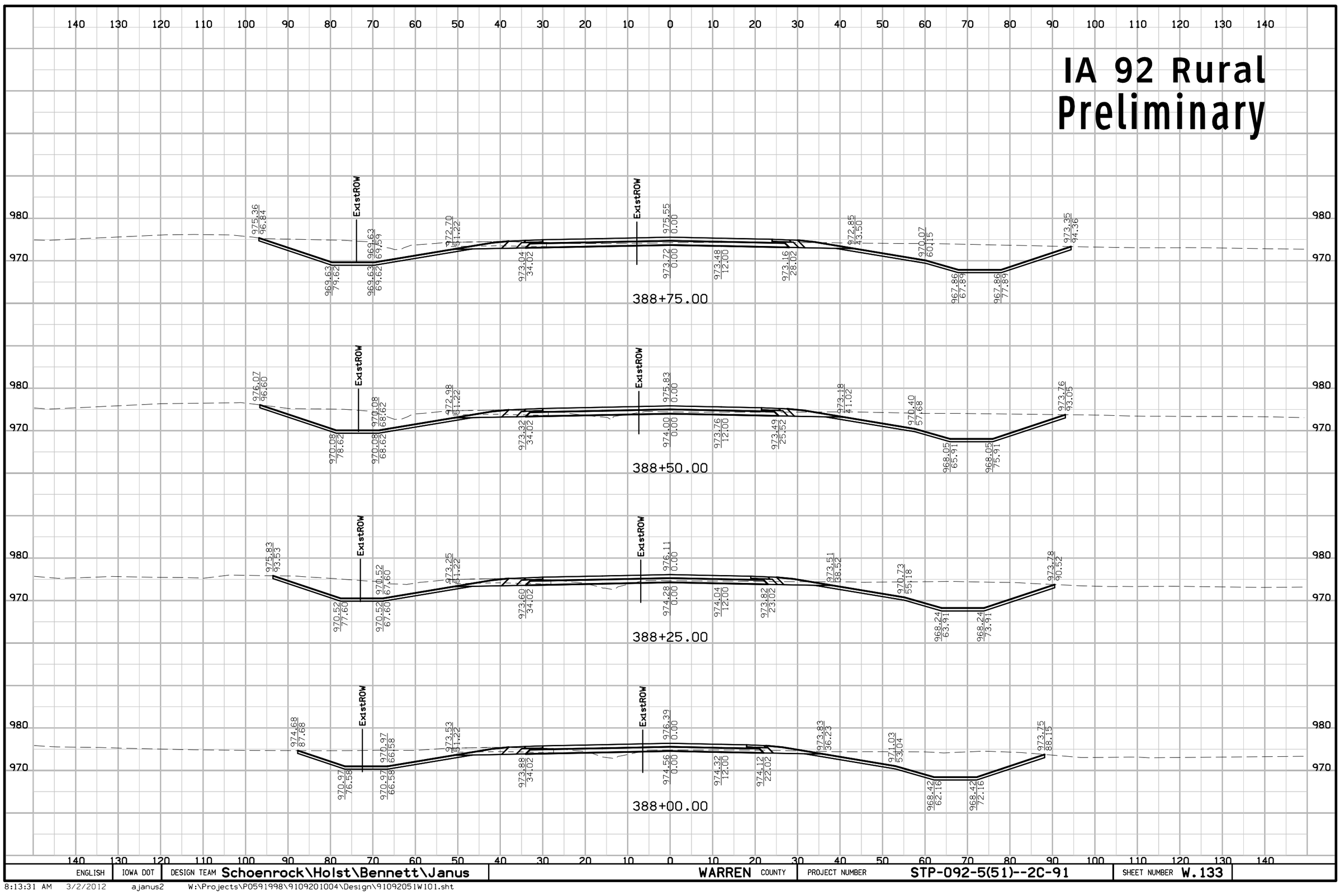
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.132

8:13:31 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051W101.sht

IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.133

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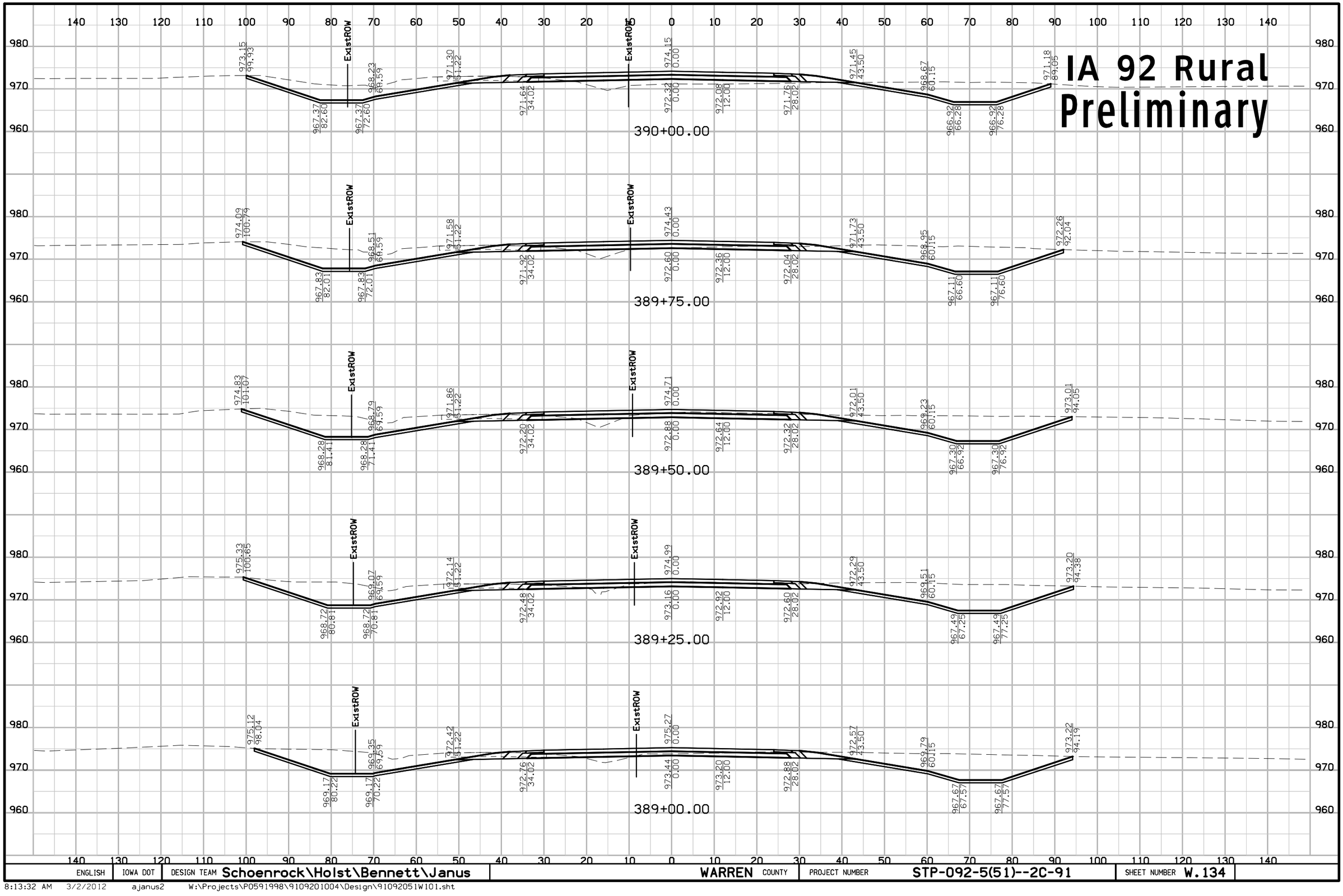
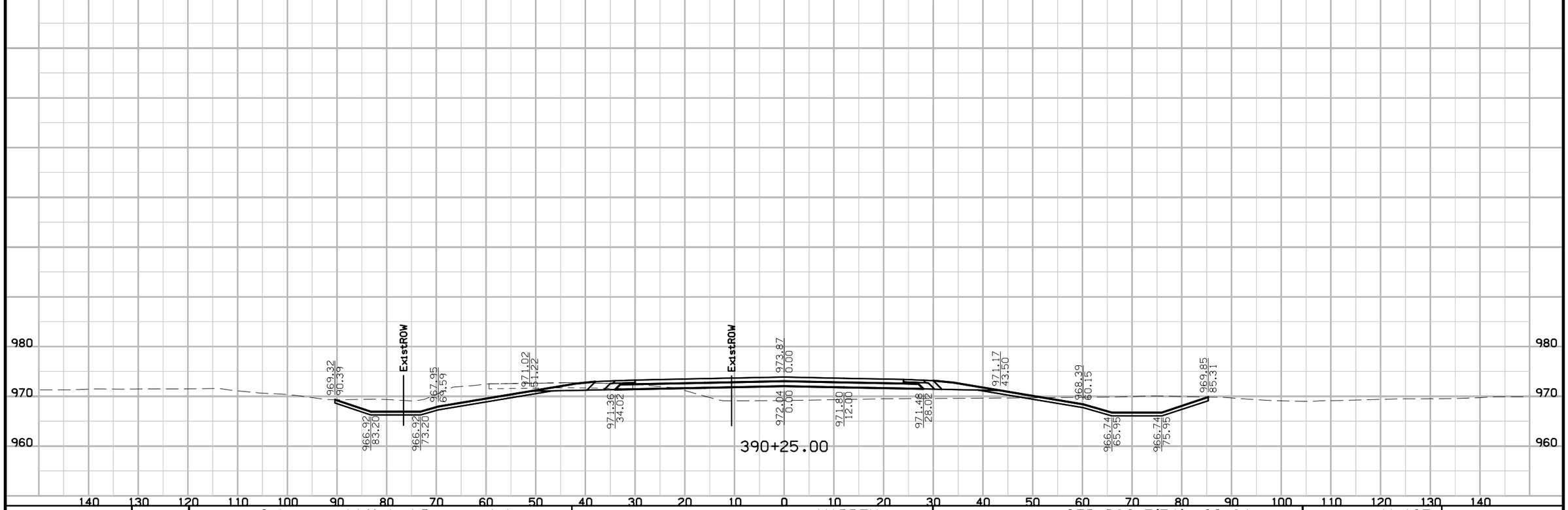
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.134

8:13:32 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051W101.sht

IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.135

8:13:32 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051W101.sht

IA 92 Urban
Preliminary

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980
970

970.58 31.00
972.72 16.00
970.88 16.00
972.48 0.00
970.84 0.00
970.34 15.00

391+50.00

973.00 16.00
971.16 16.00
972.76 0.00
970.92 0.00
970.62 15.00

391+25.00

973.28 16.00
971.14 31.00
971.44 16.00
973.04 0.00
971.20 0.00
970.90 15.00

391+00.00

390+75.00

ExistROW

390+50.00

ExistROW

ExistROW

390+25.00

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 Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.136

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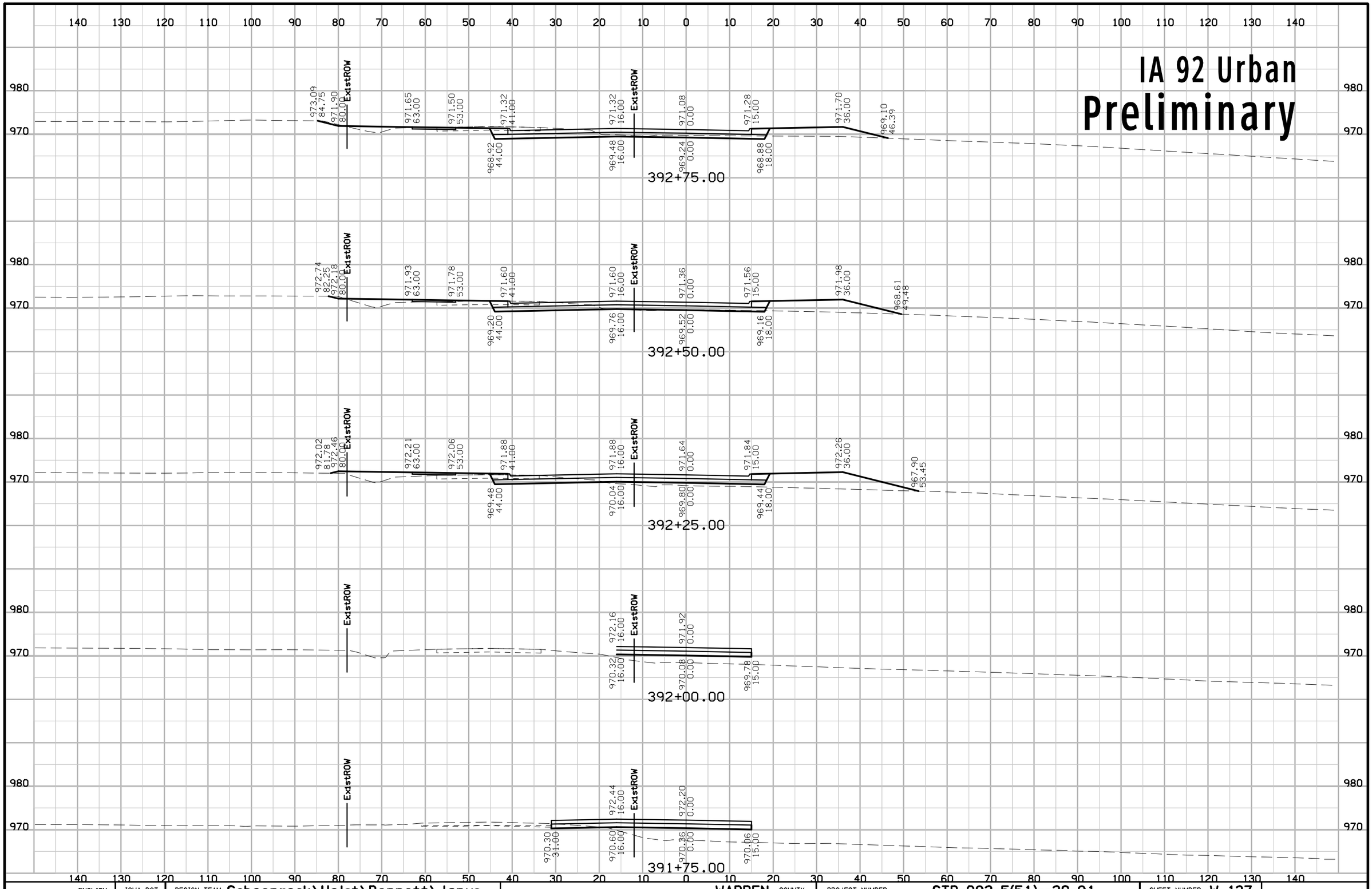
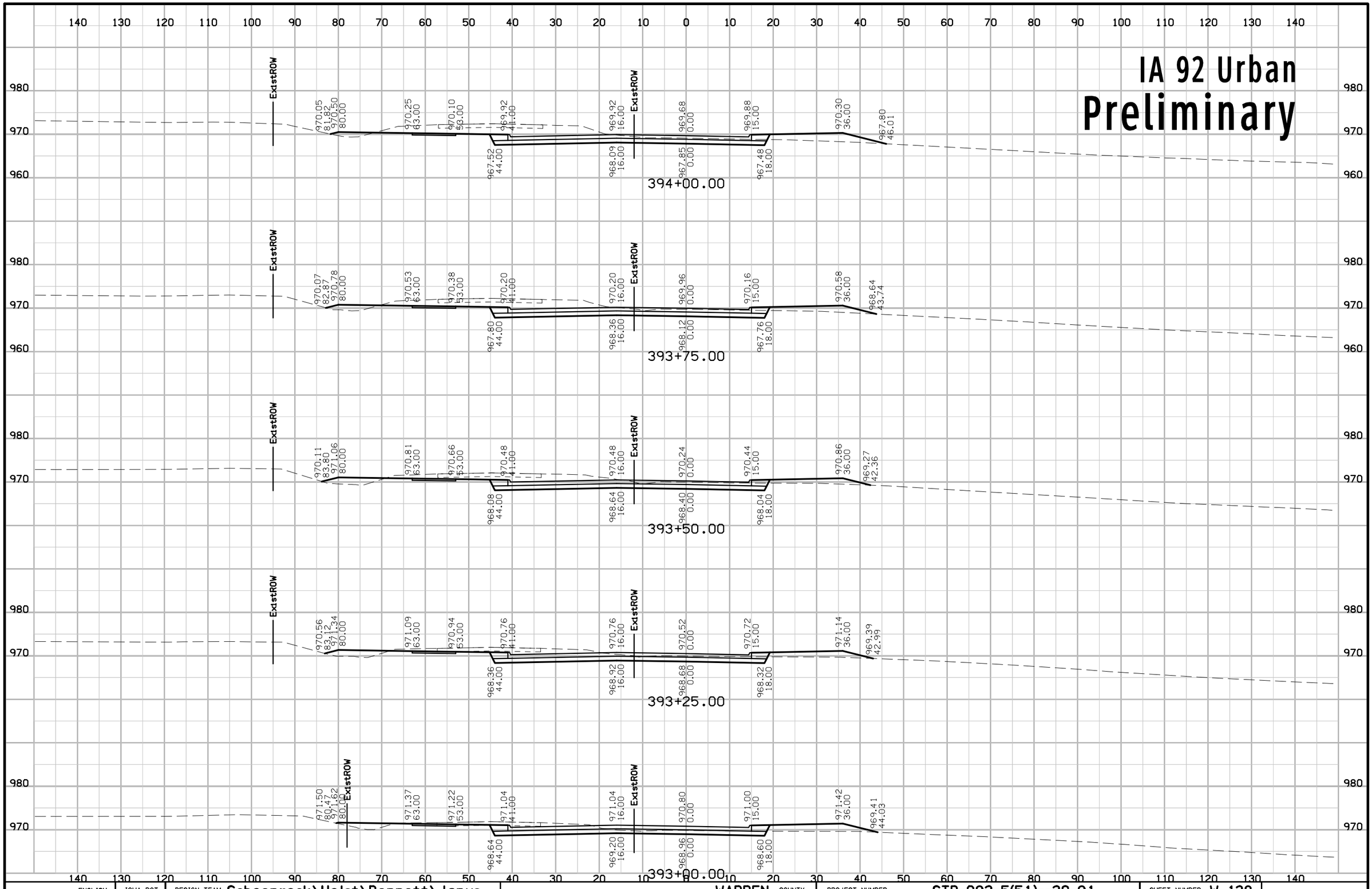
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.137

IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.138

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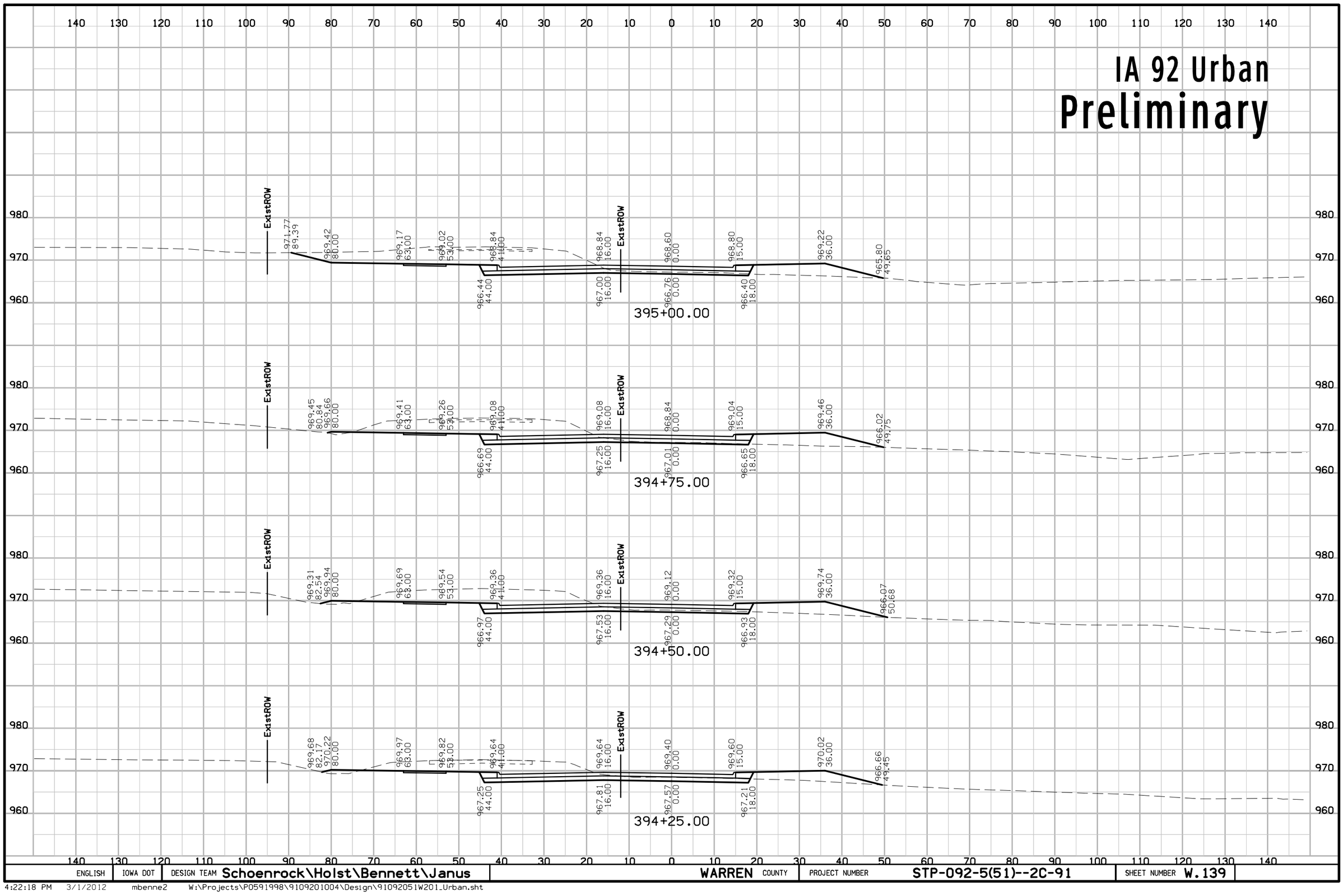
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.139

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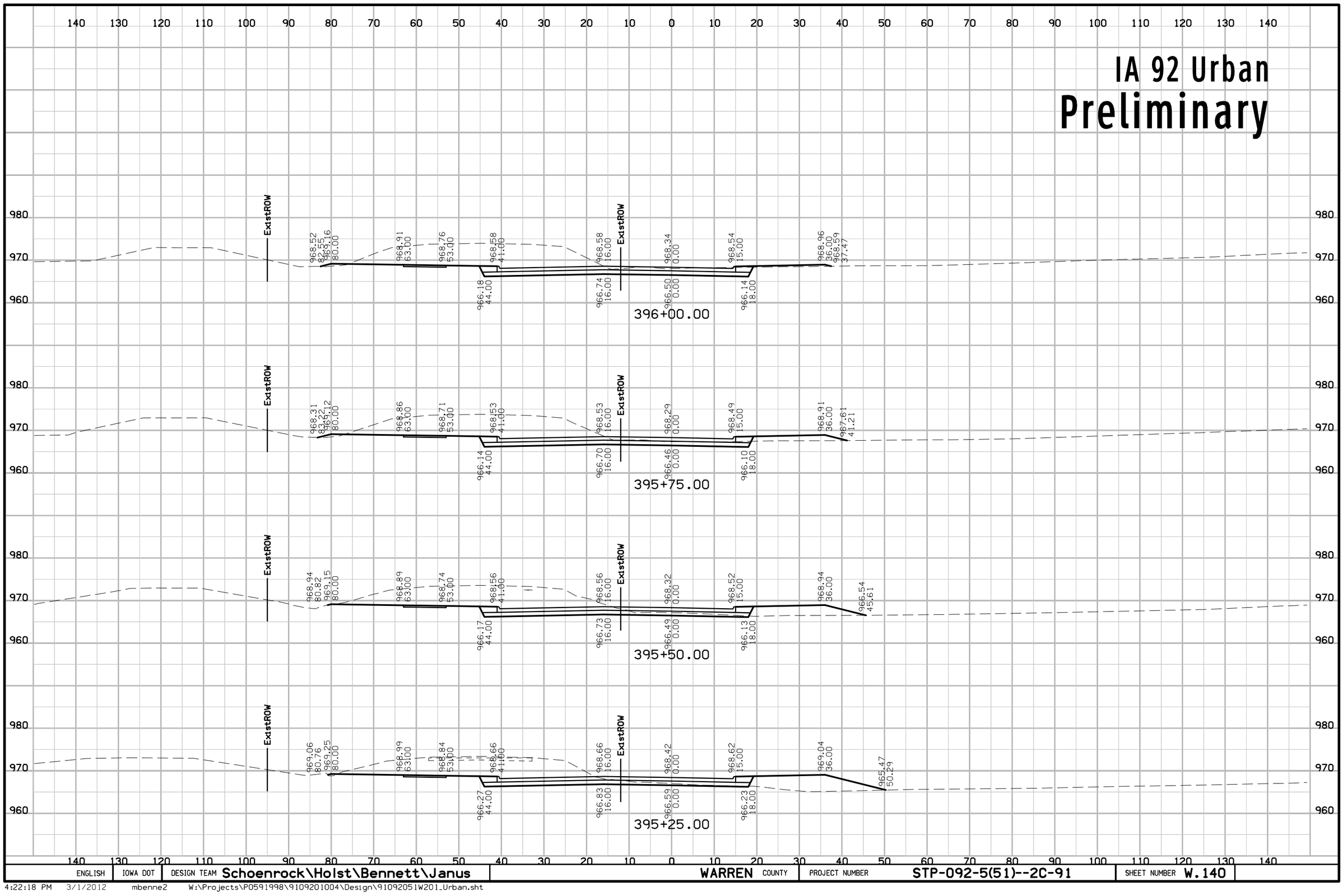
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.140

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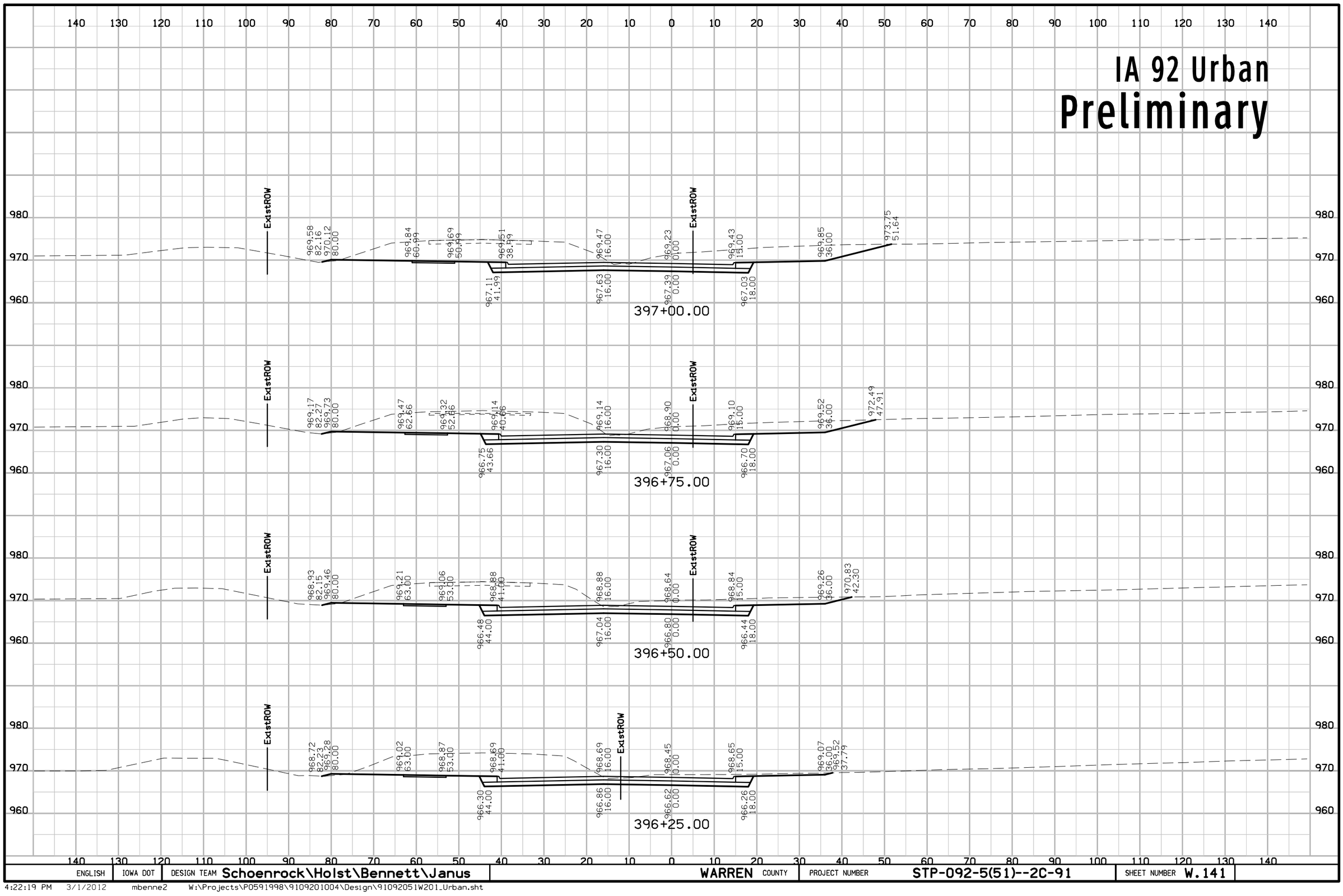
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.141

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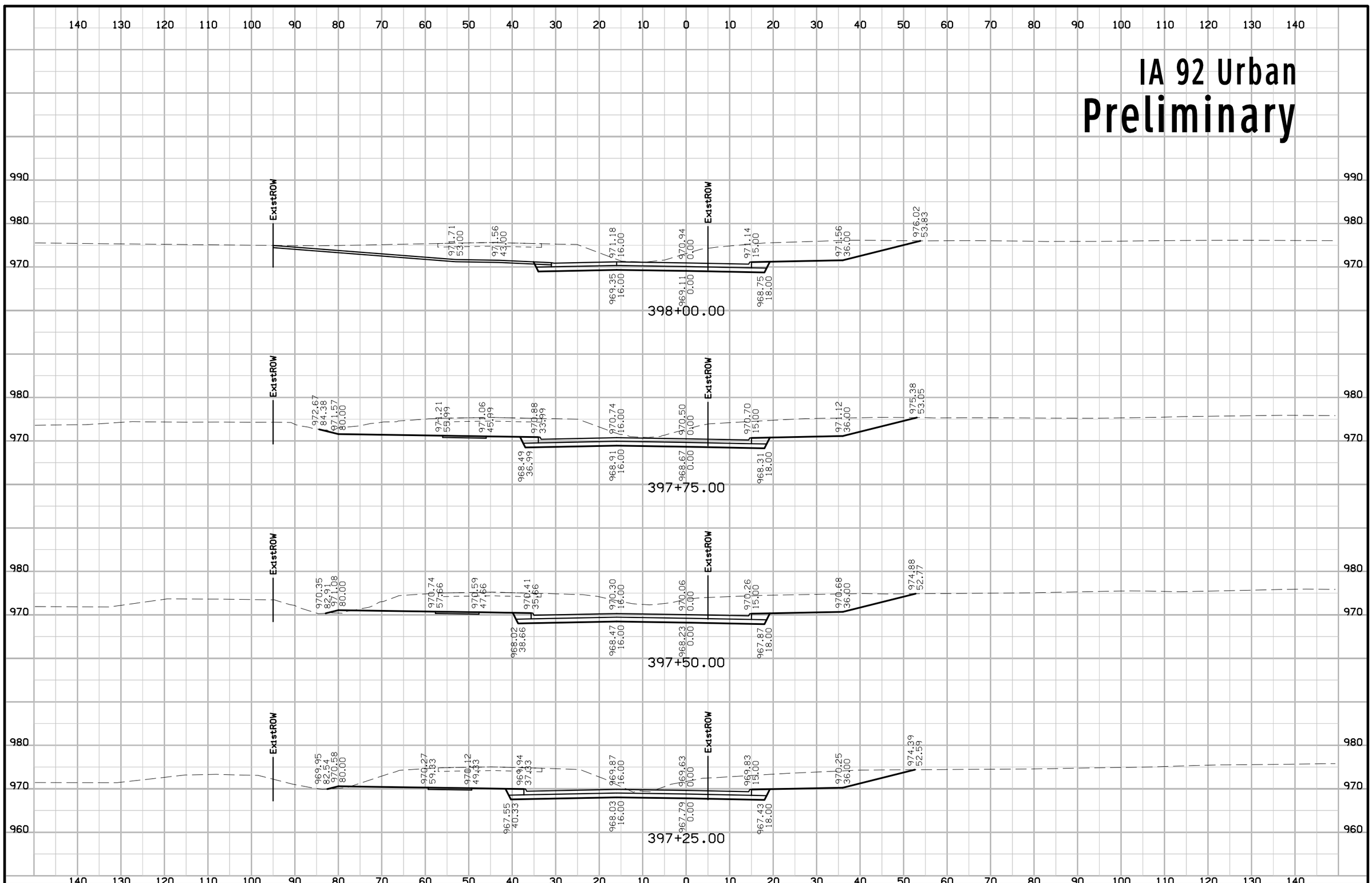
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.142

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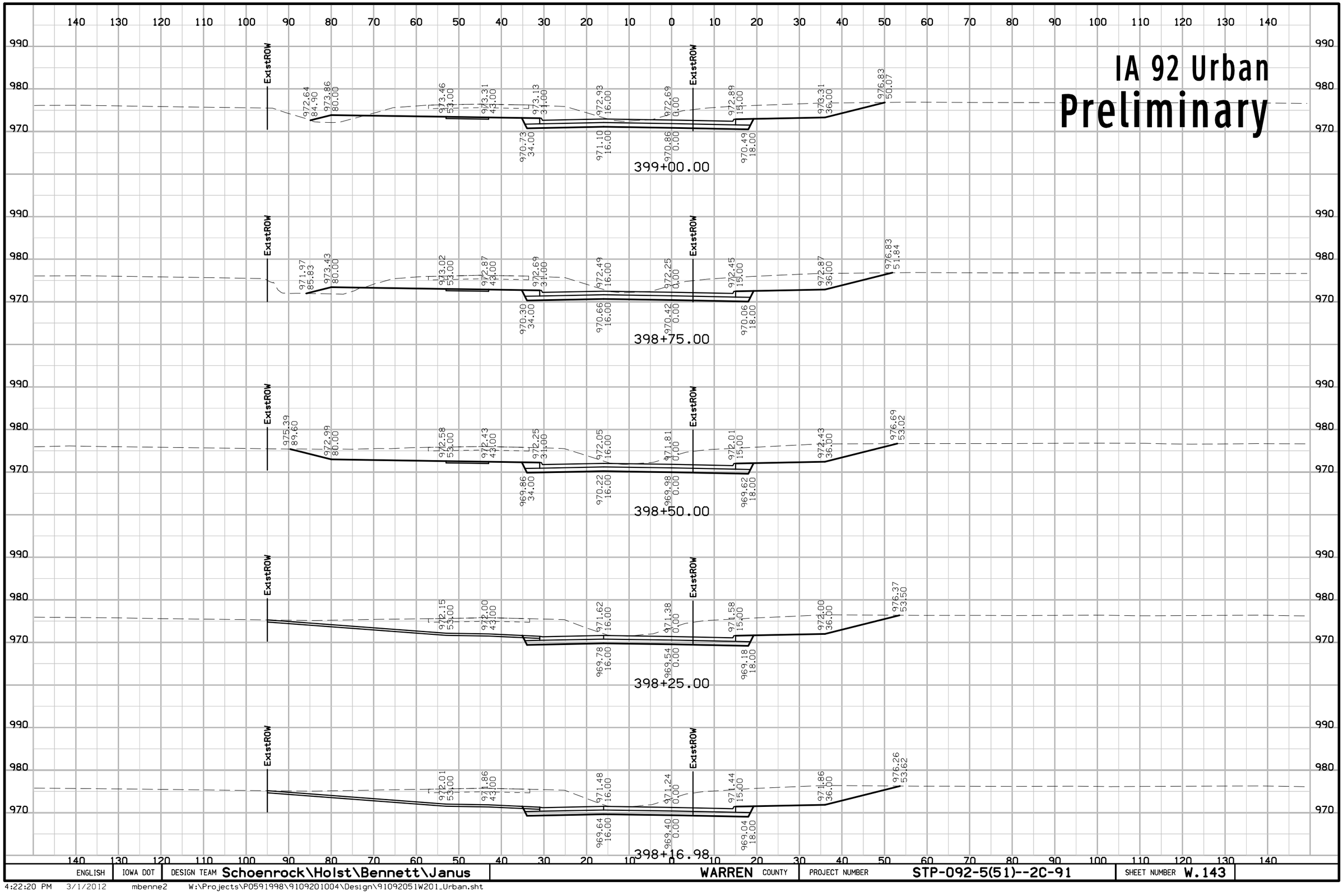
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.143

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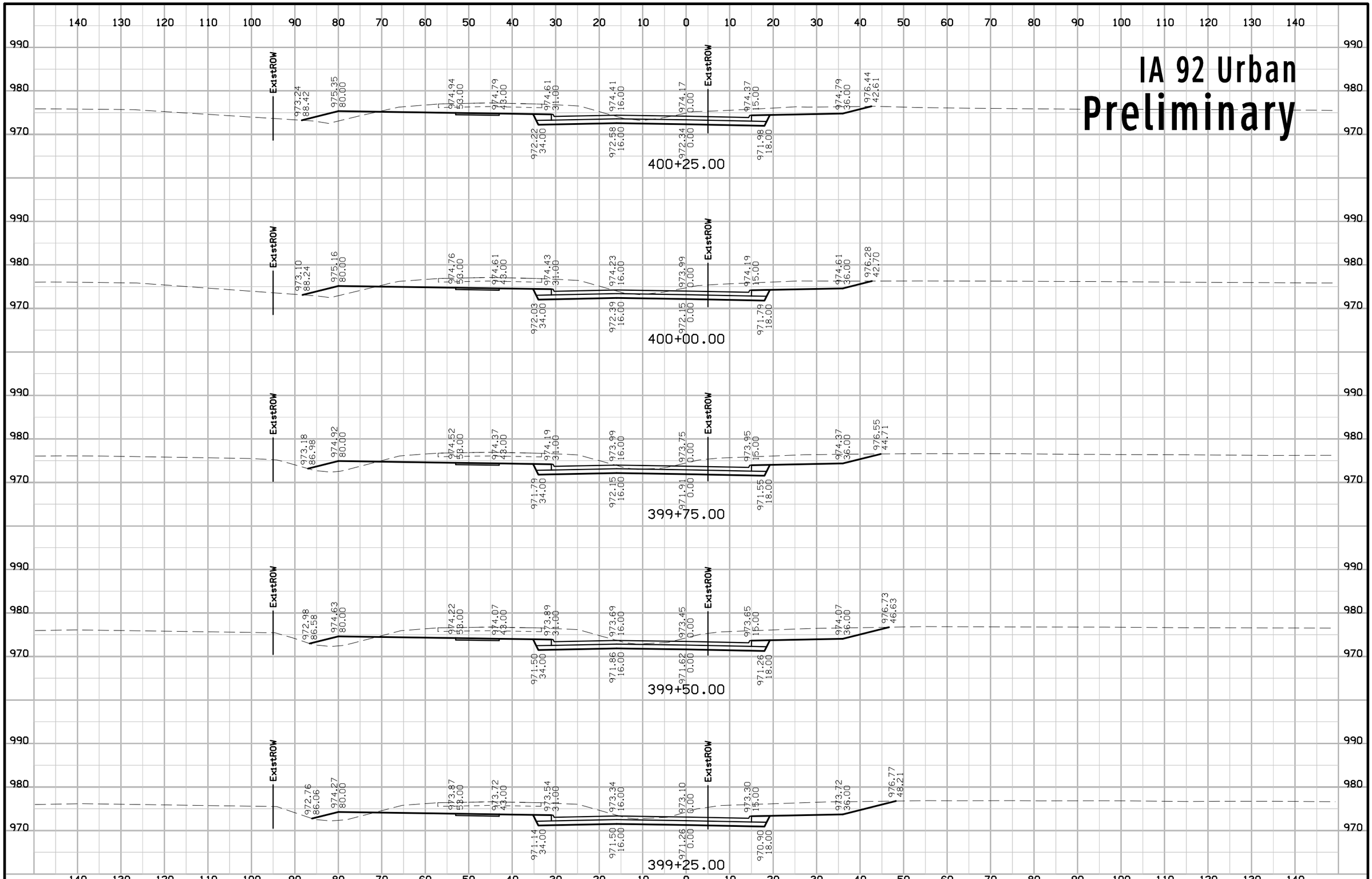
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.144

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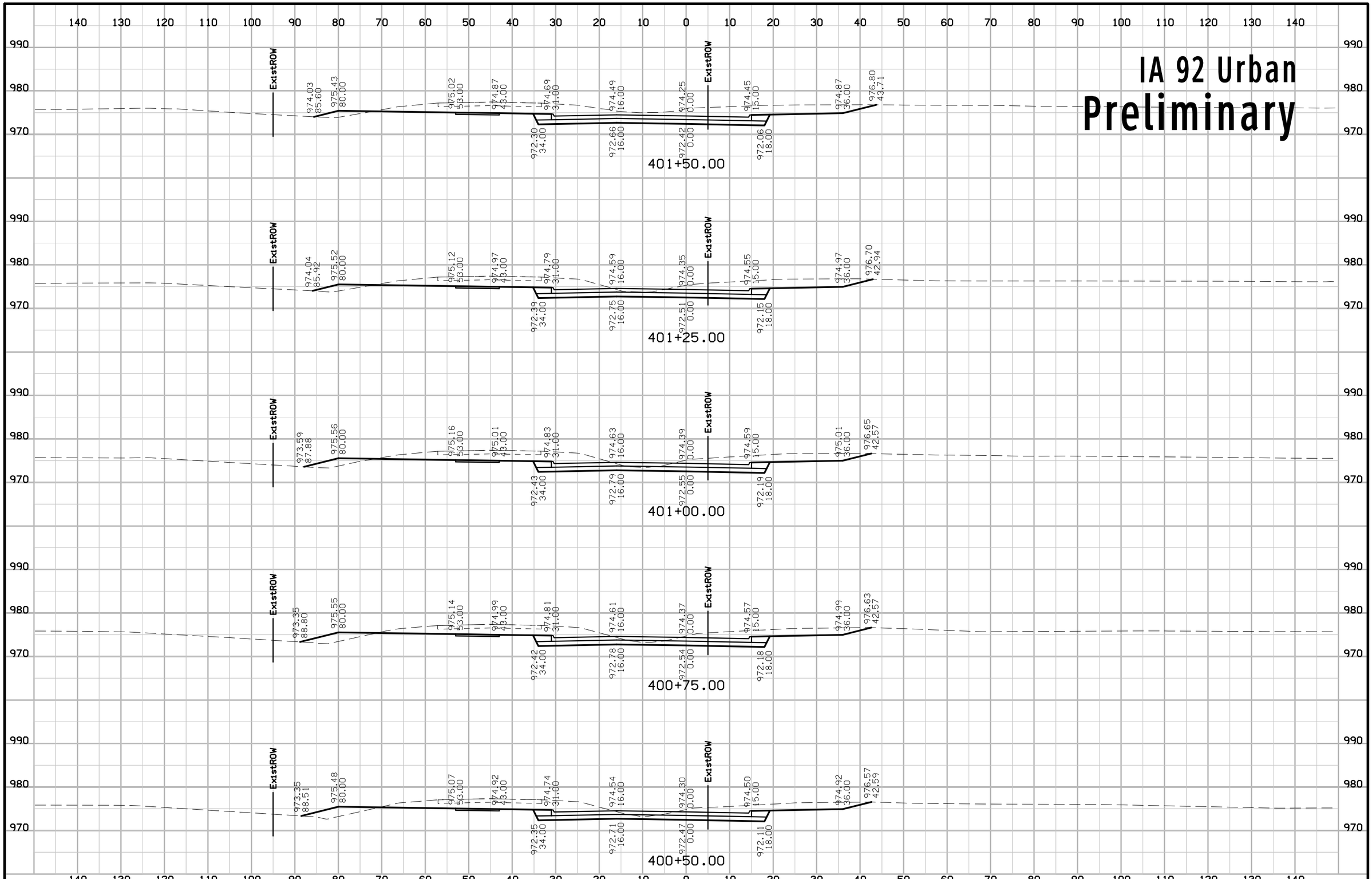
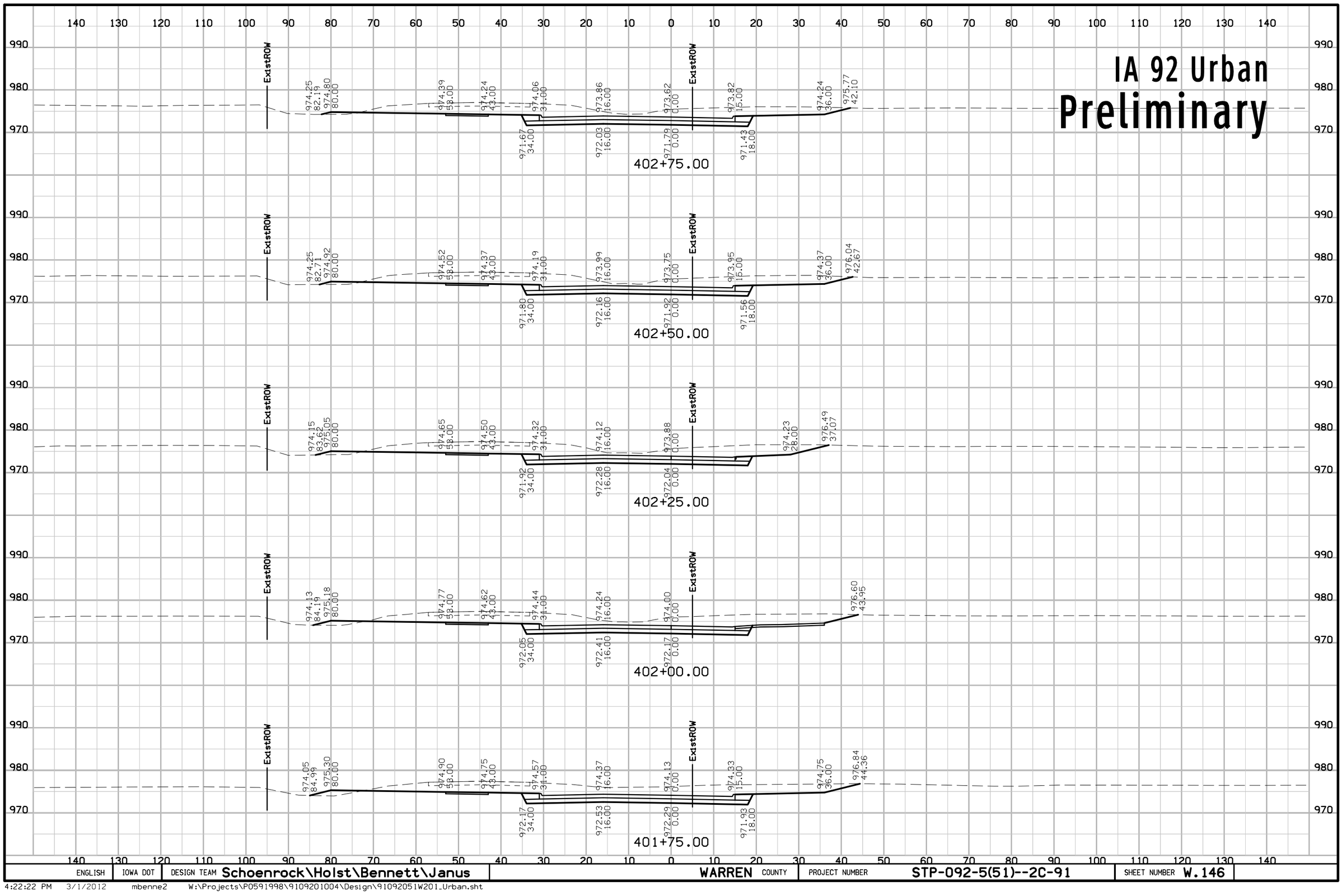
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.145

IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.146

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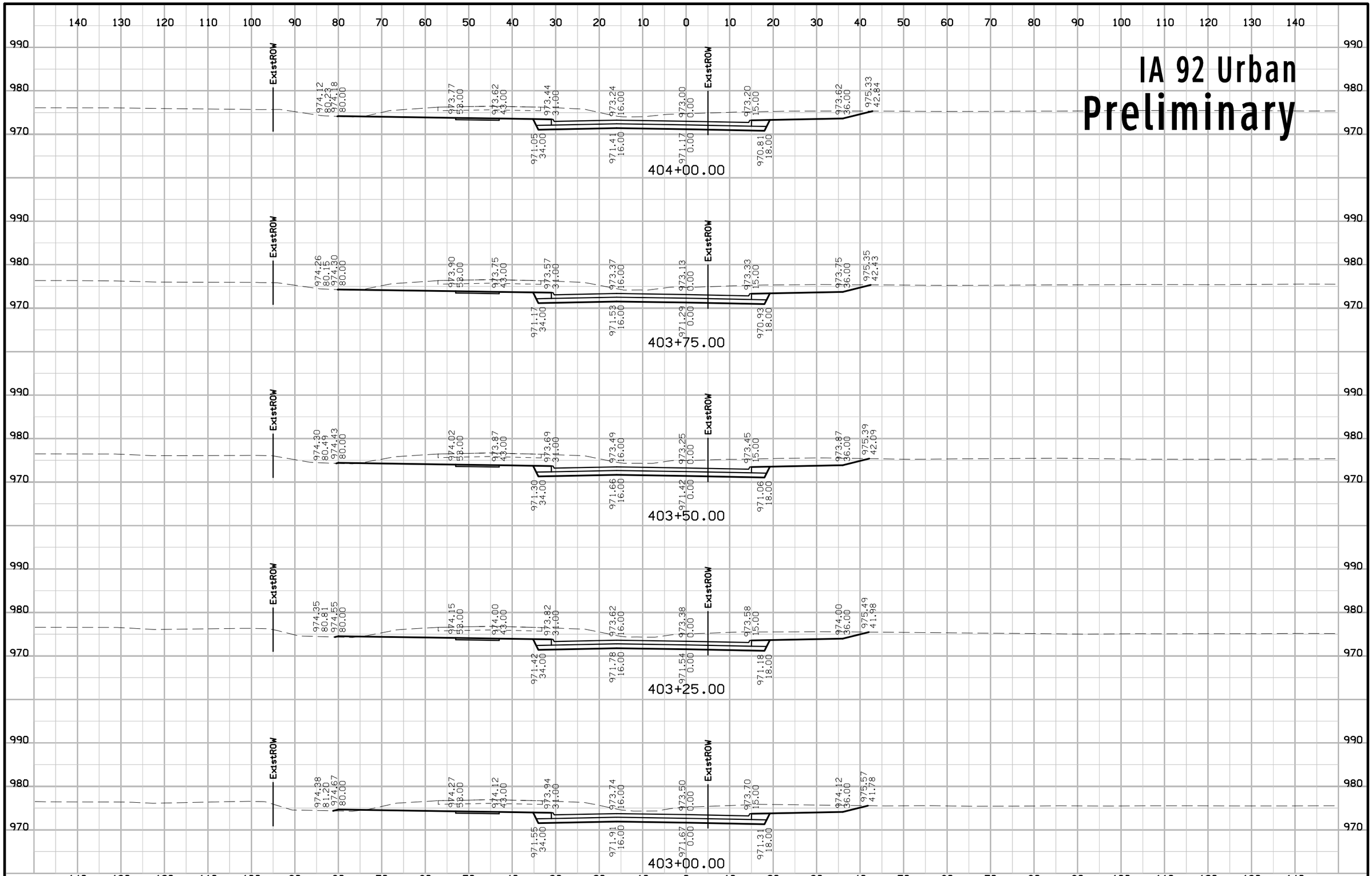
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.147

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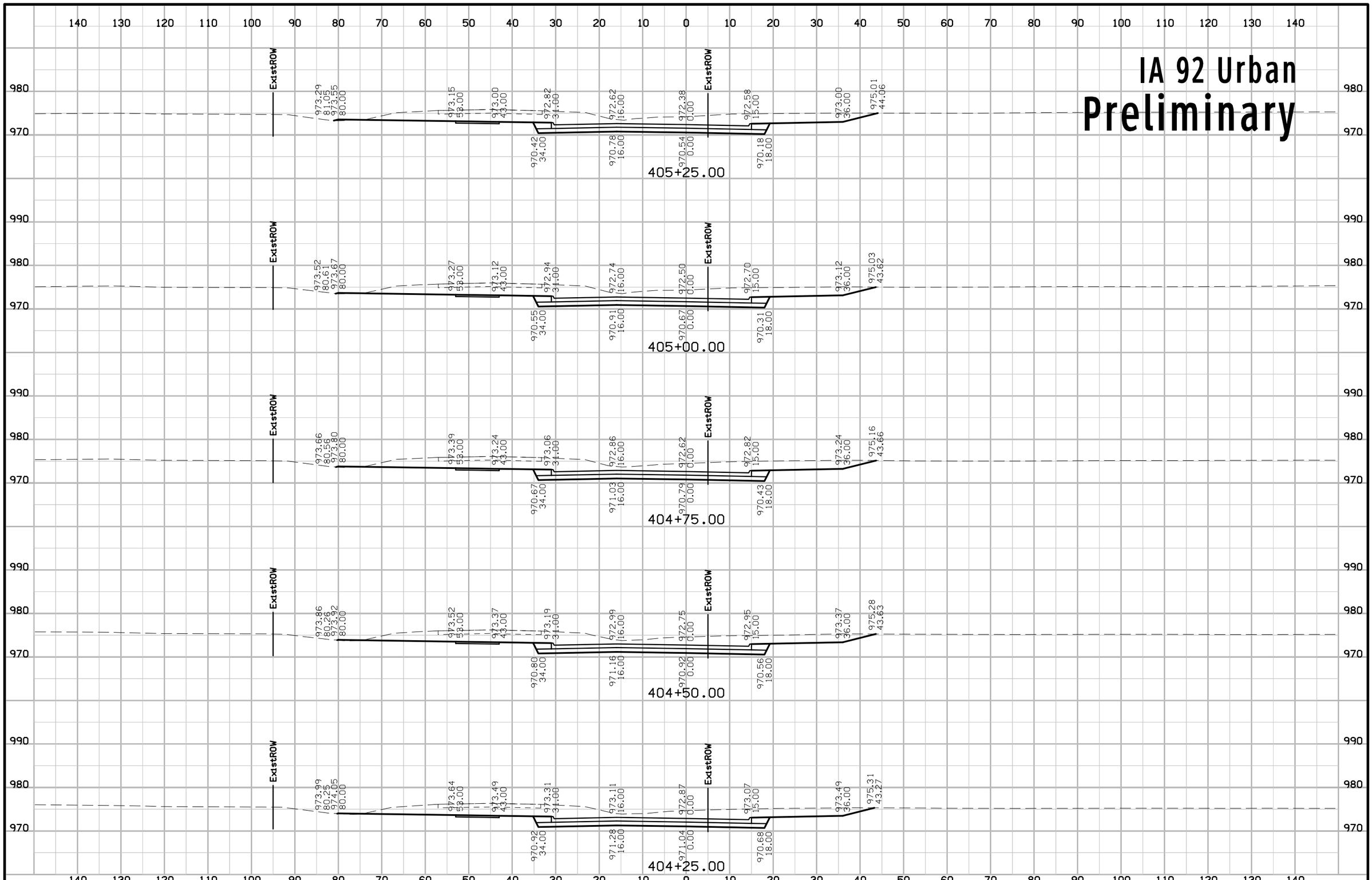
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.148

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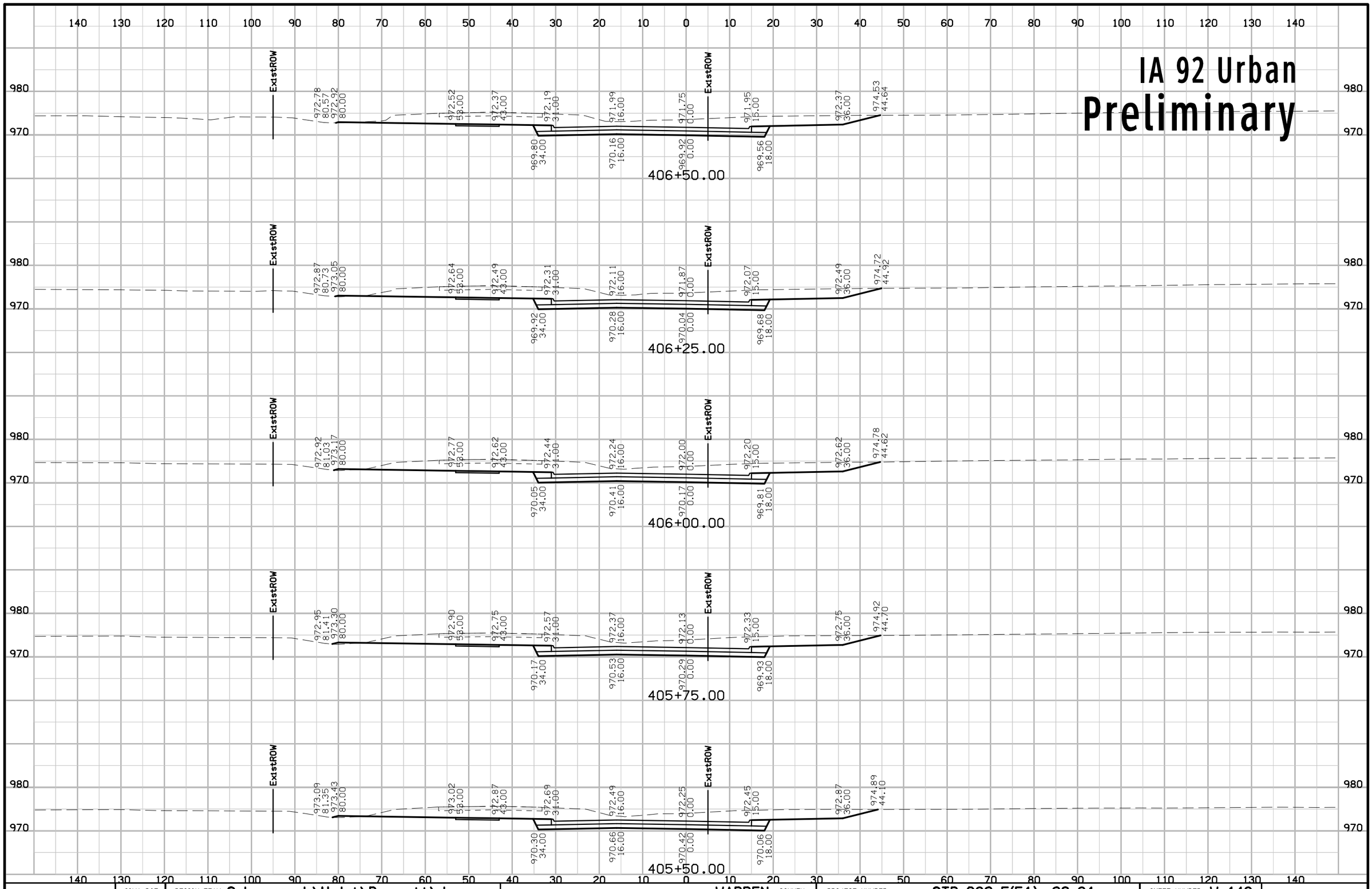
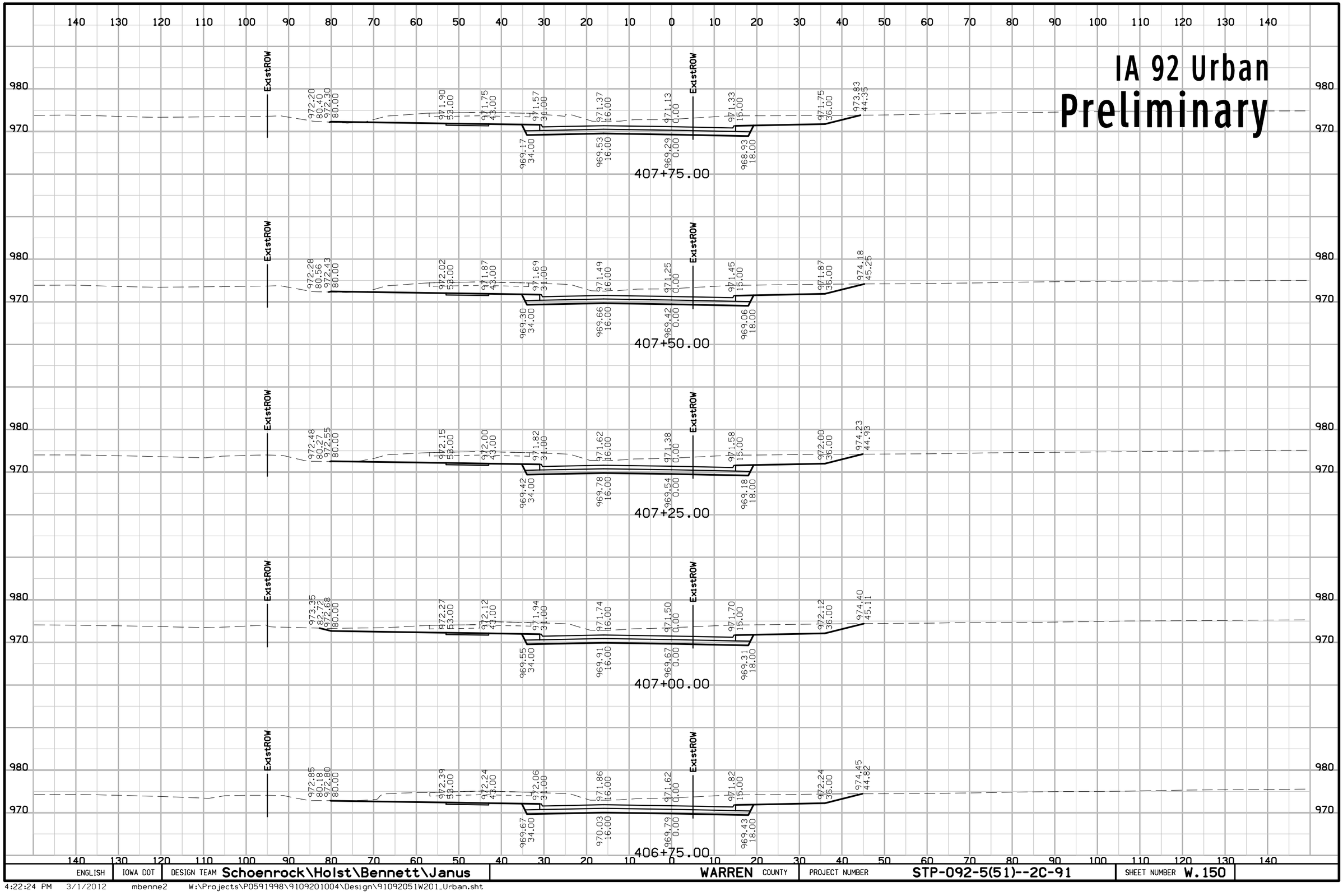
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.149

IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.150

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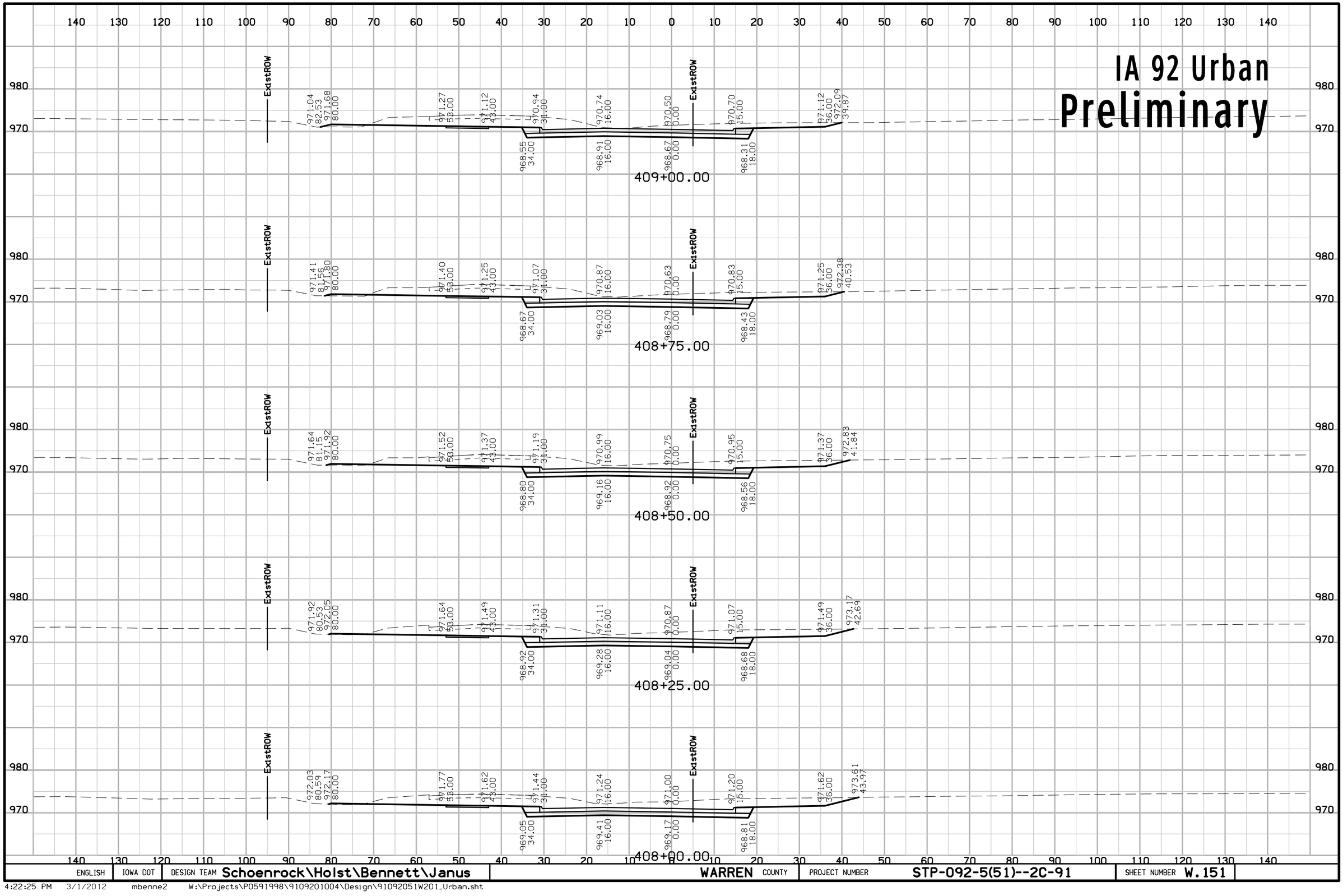
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.151

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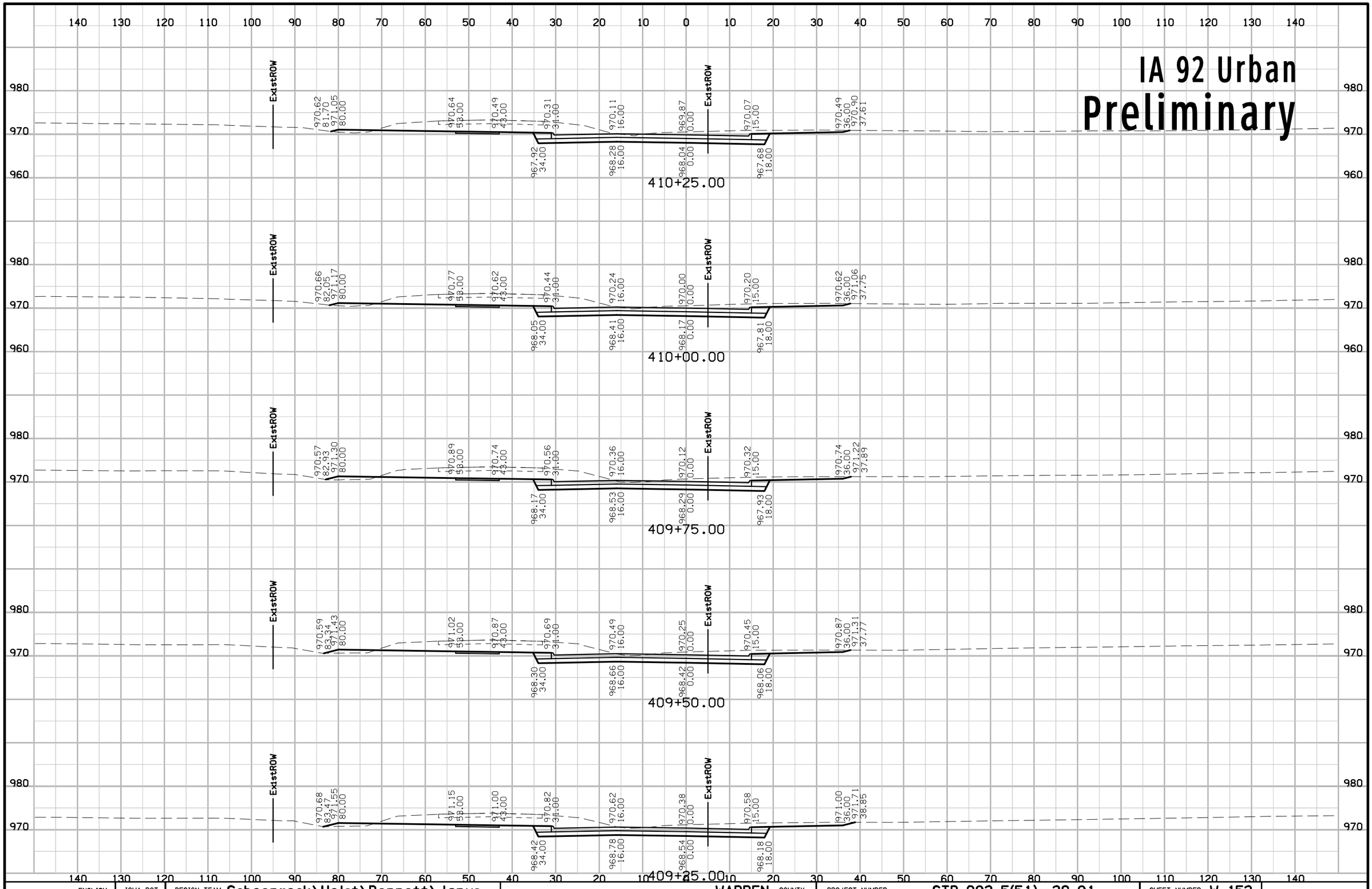
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.152

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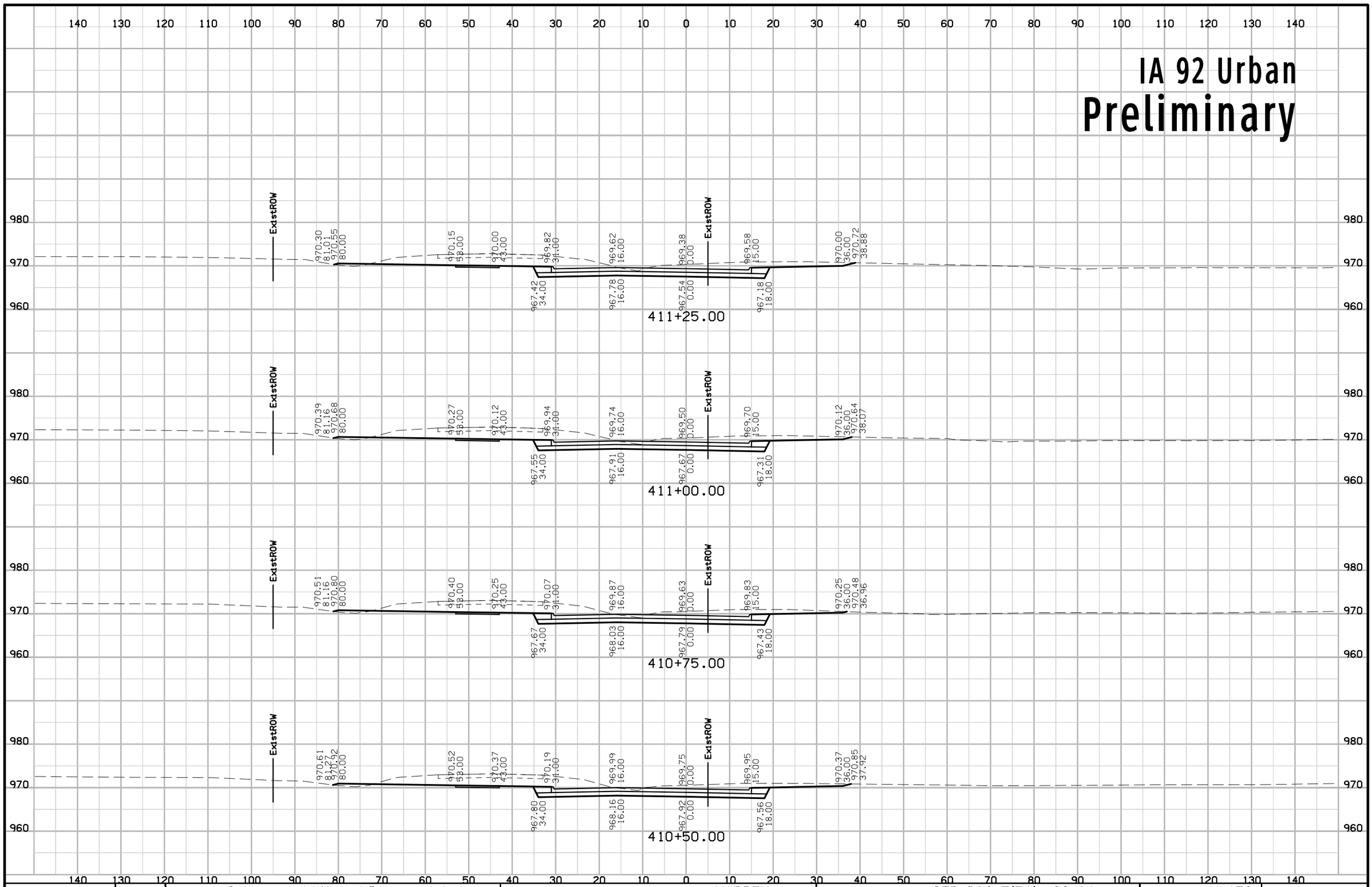
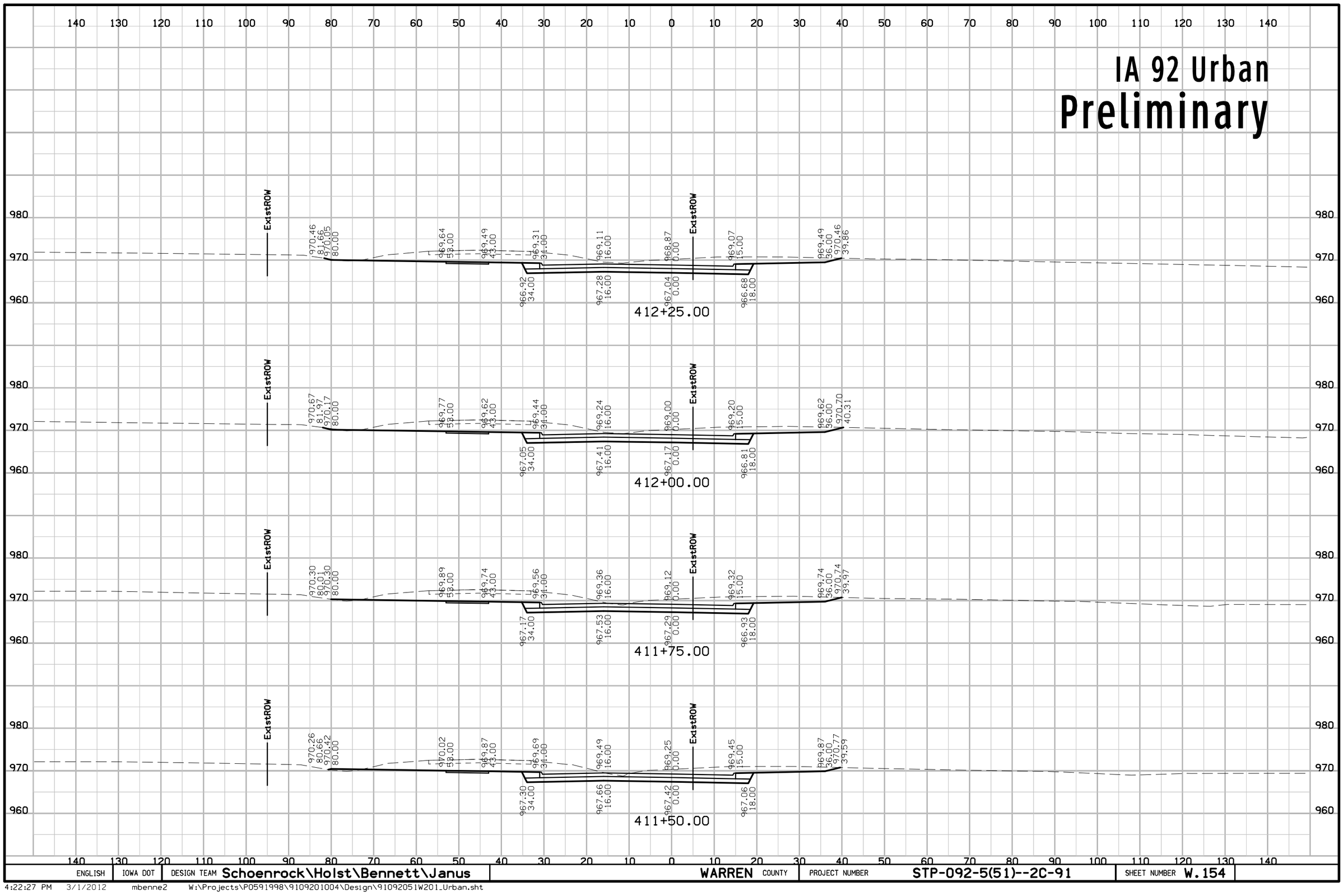
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.153

IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.154

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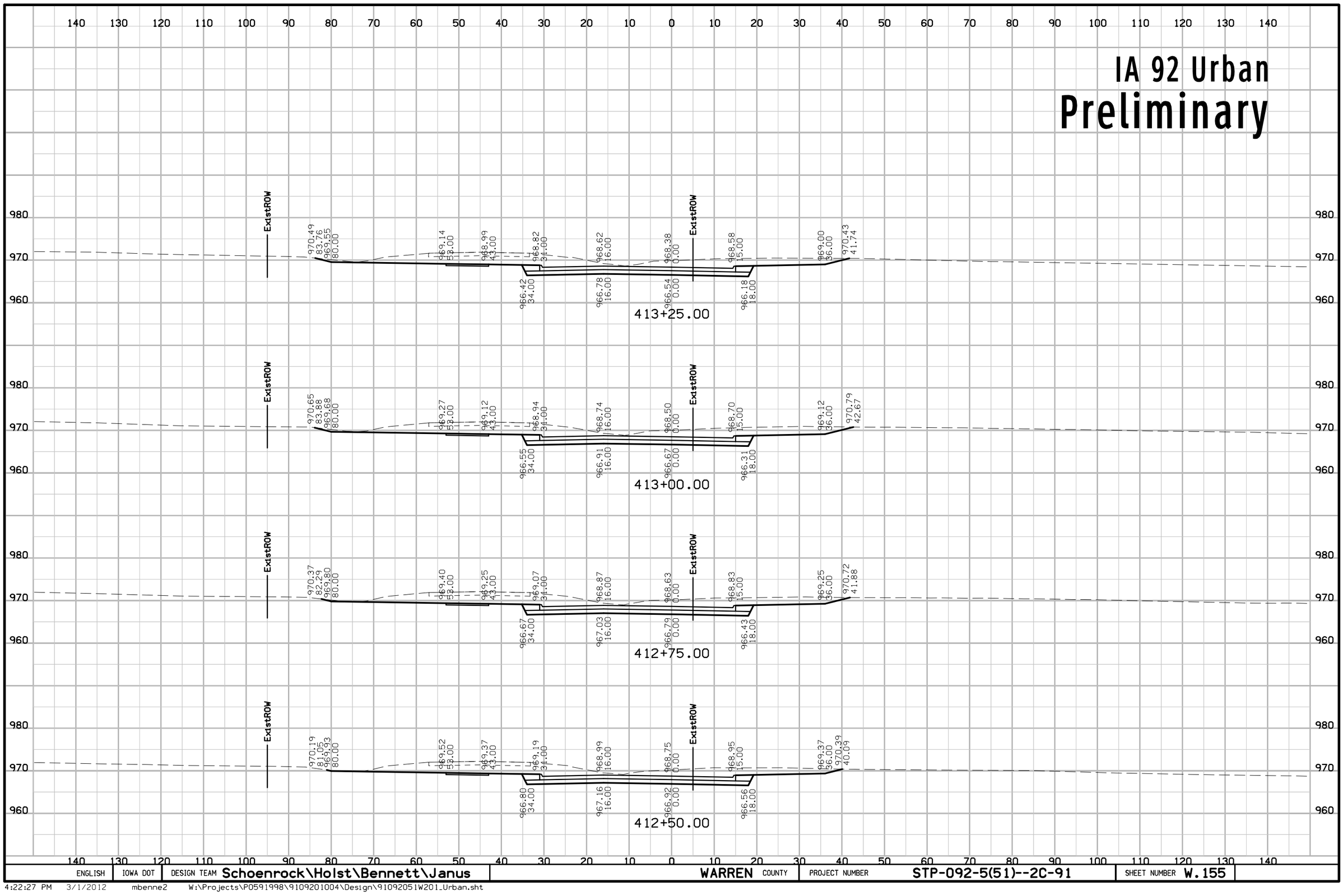
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.155

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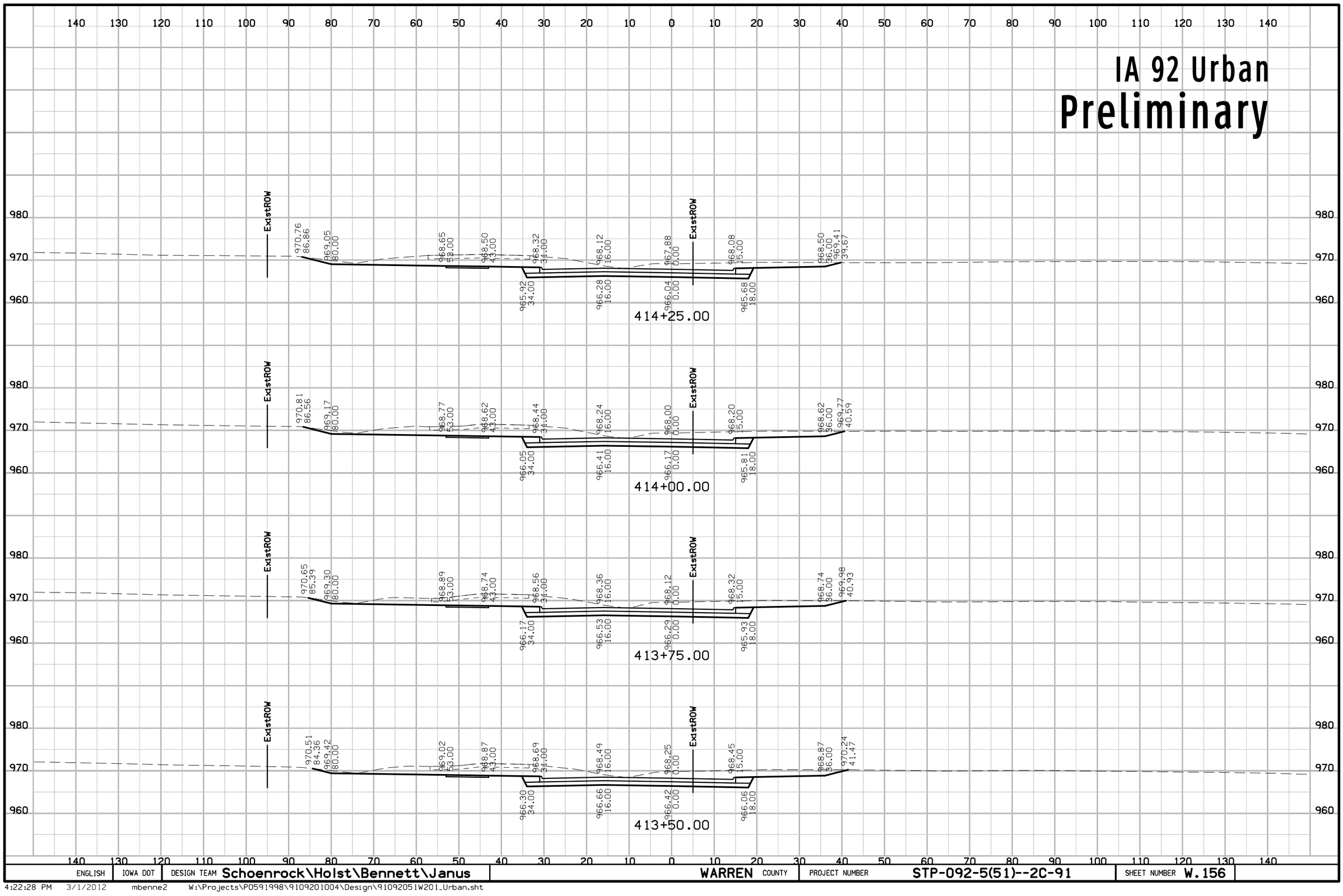
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.156

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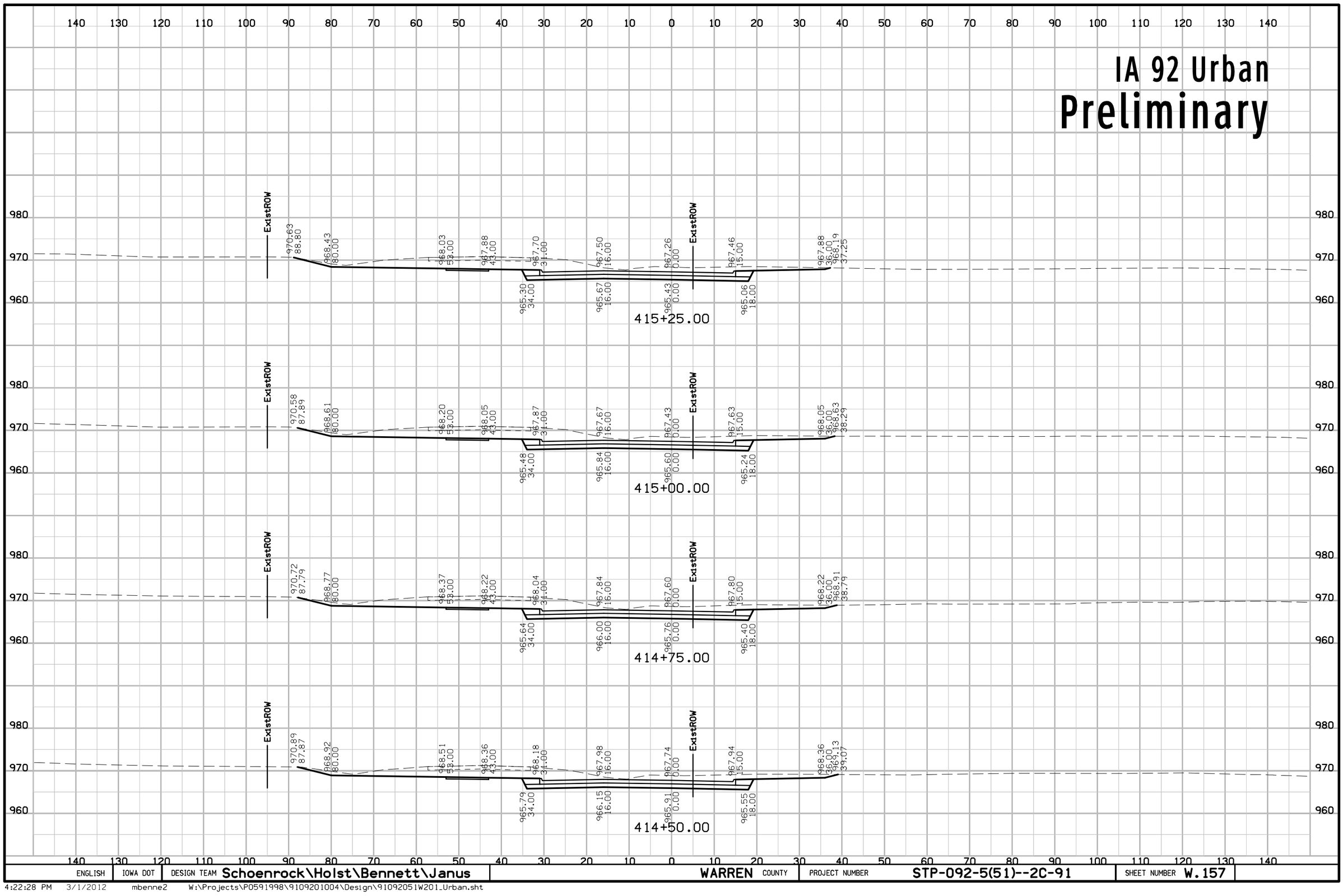
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.157

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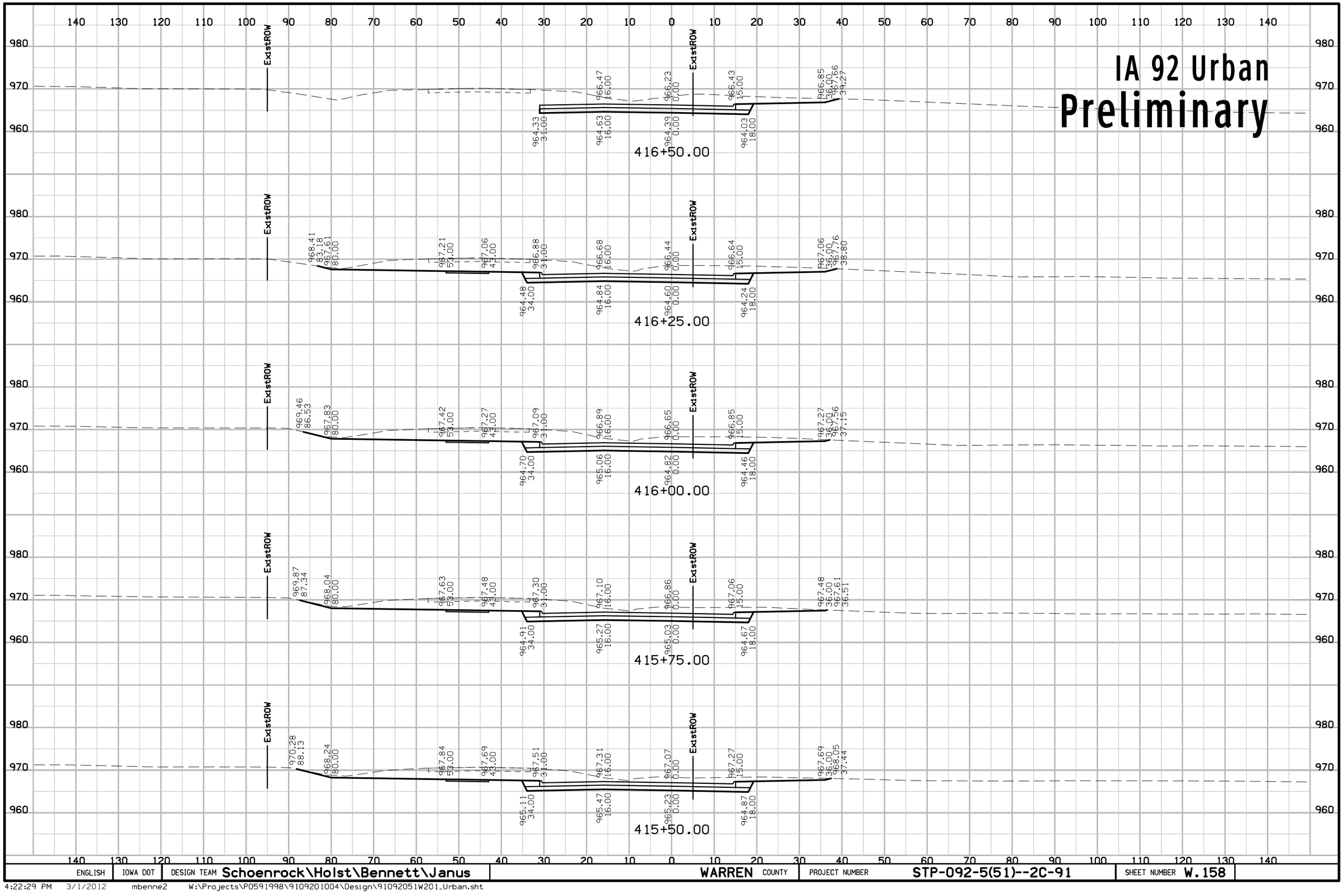
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.158

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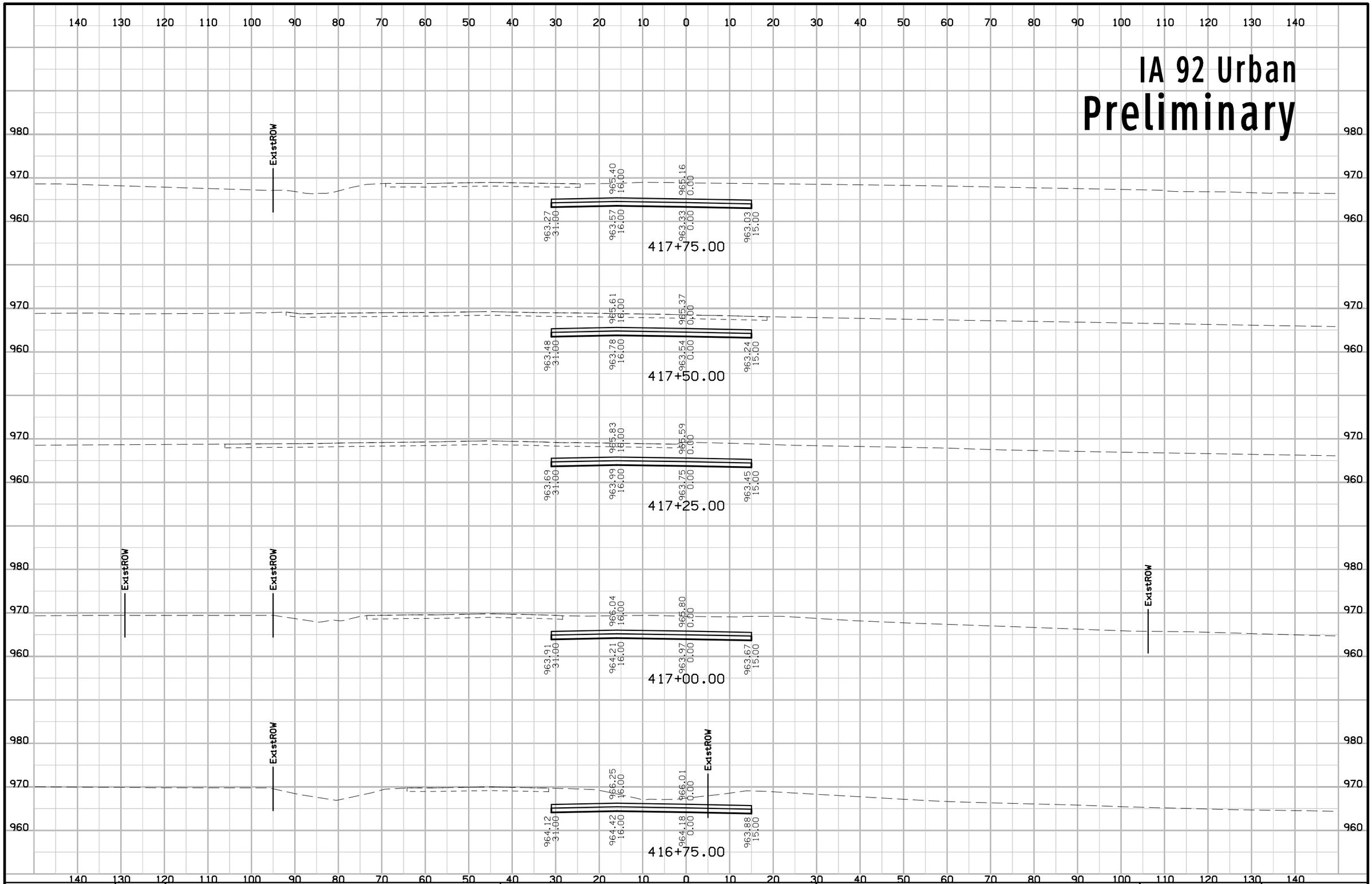
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.159

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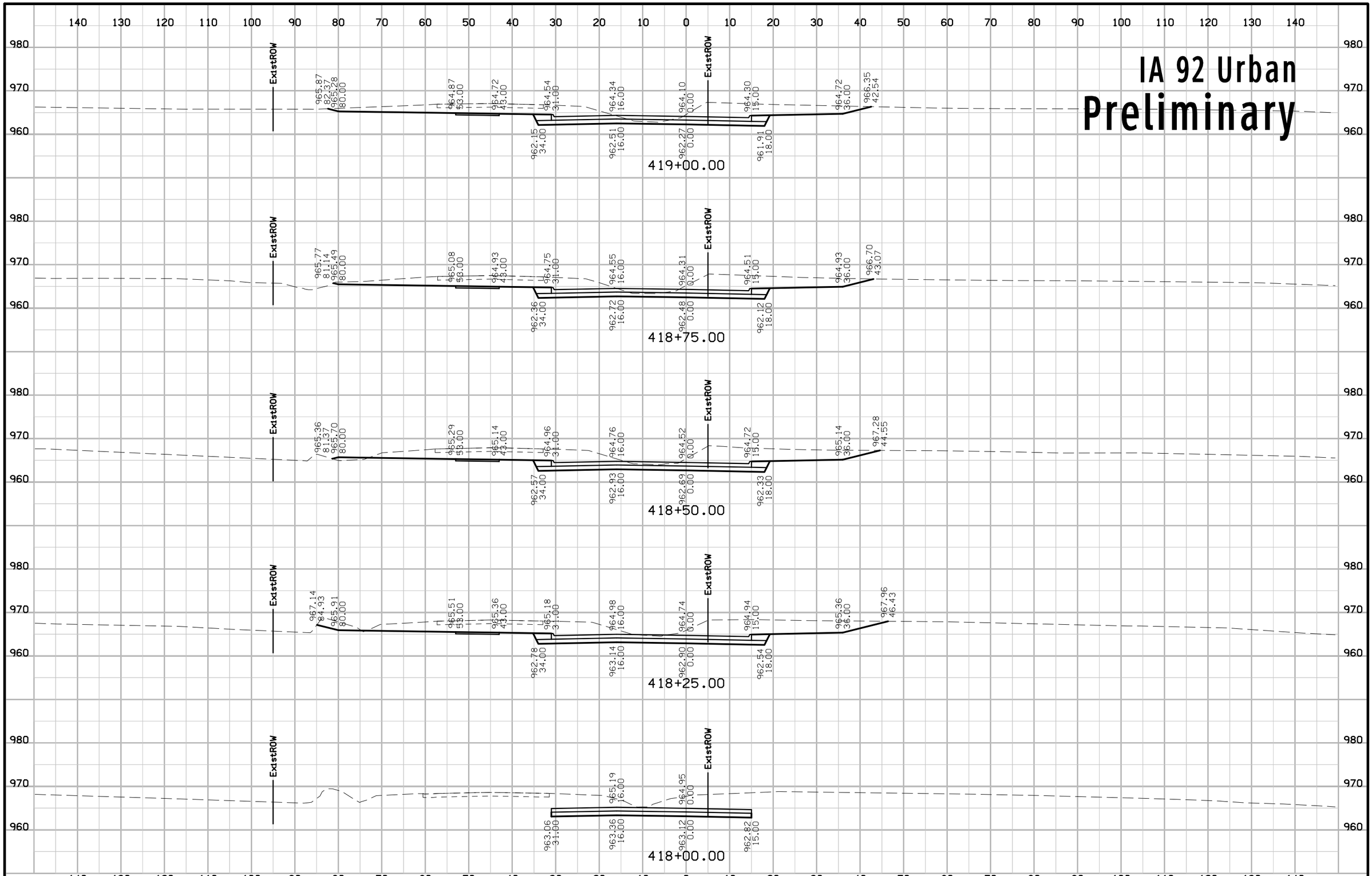
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.160

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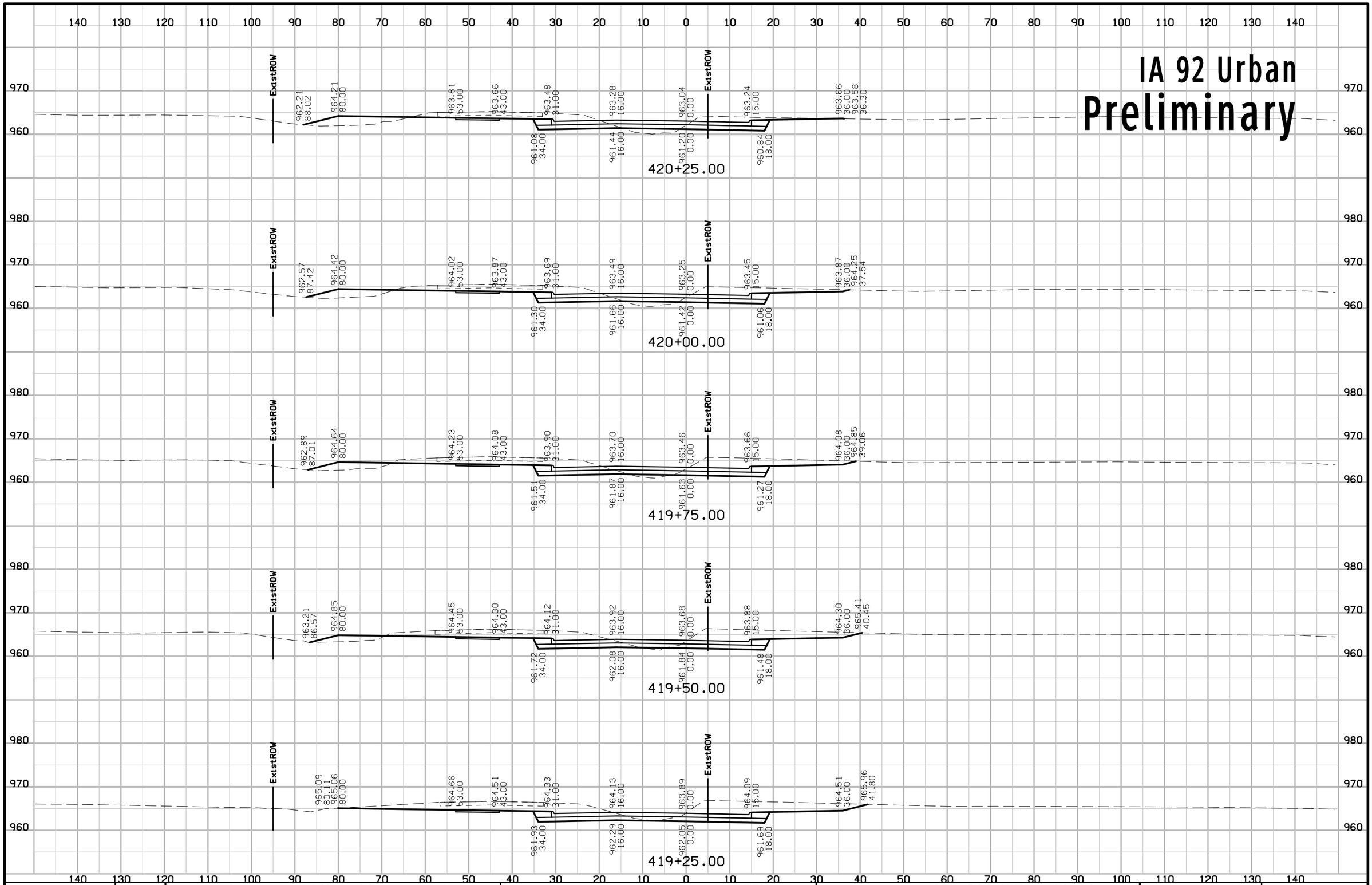
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.161

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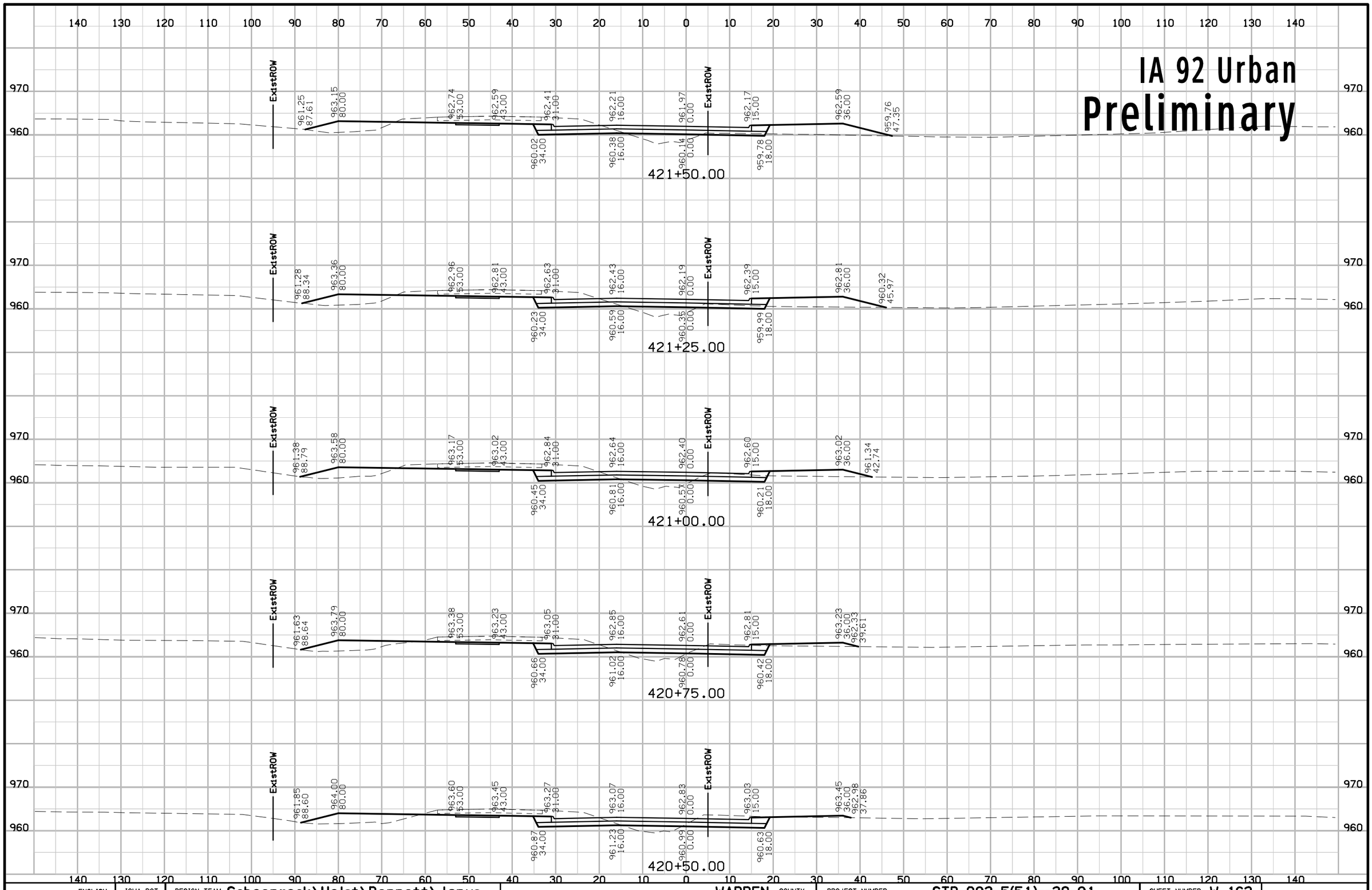
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.162

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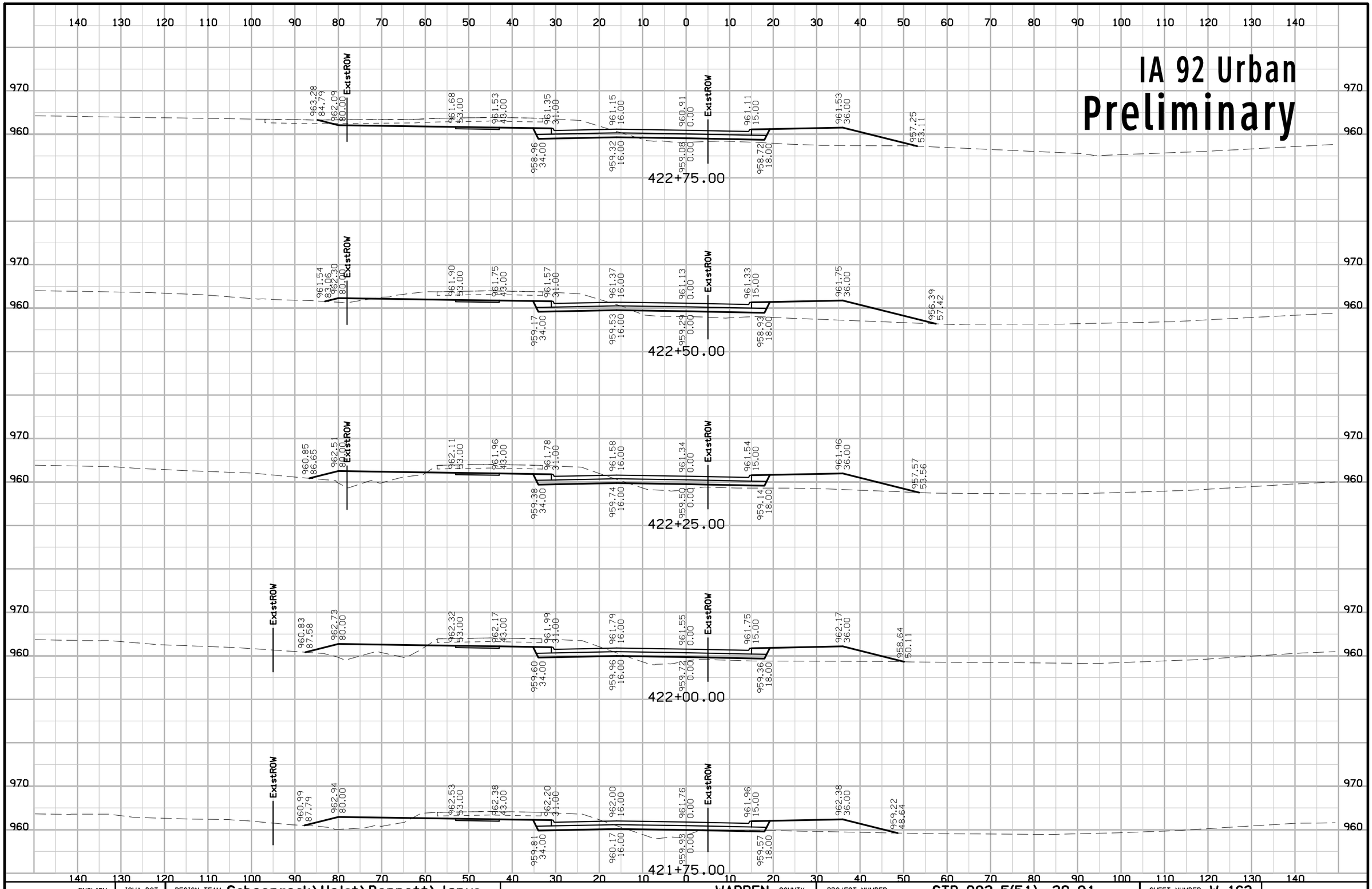
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.163

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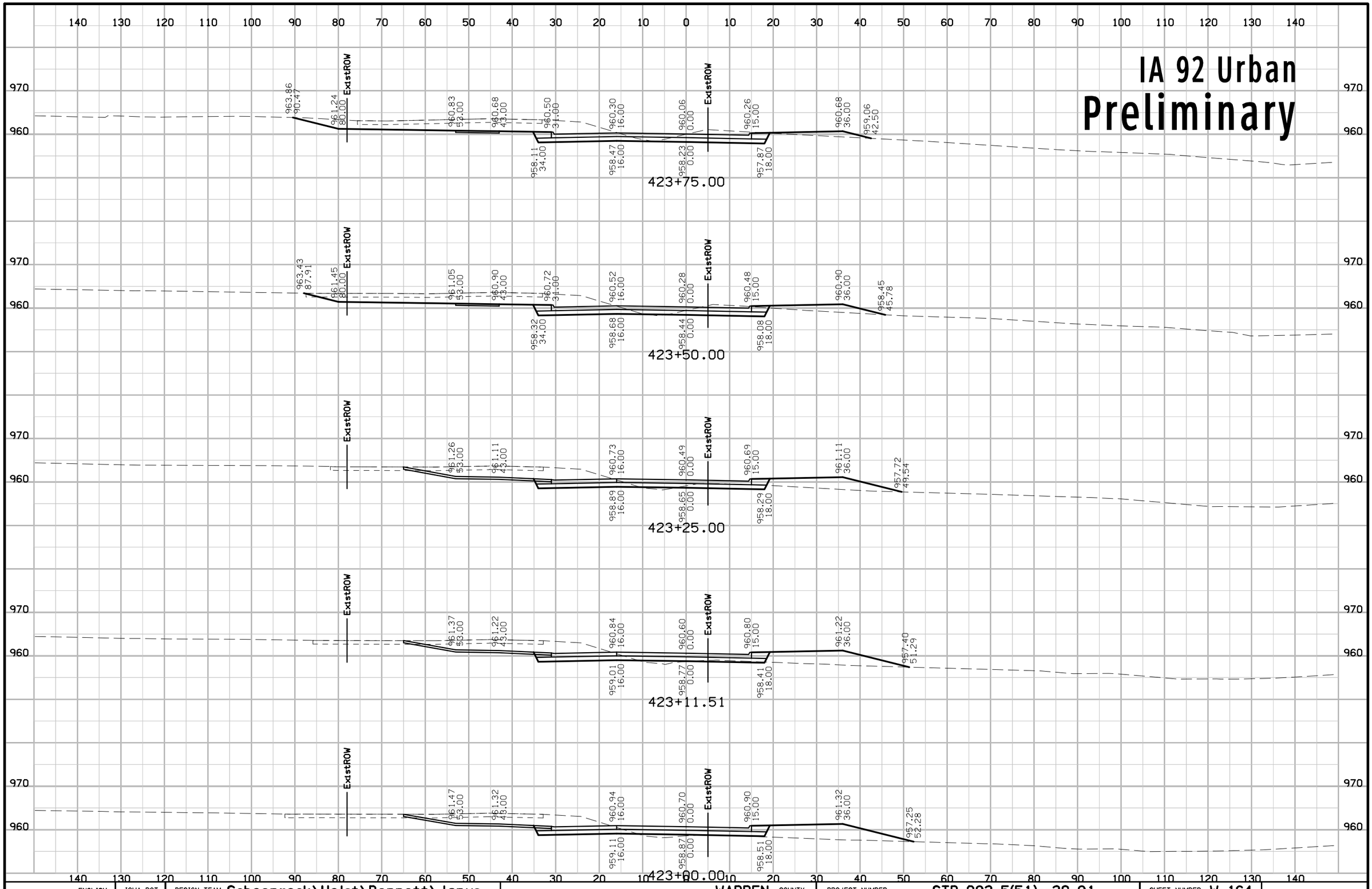
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.164

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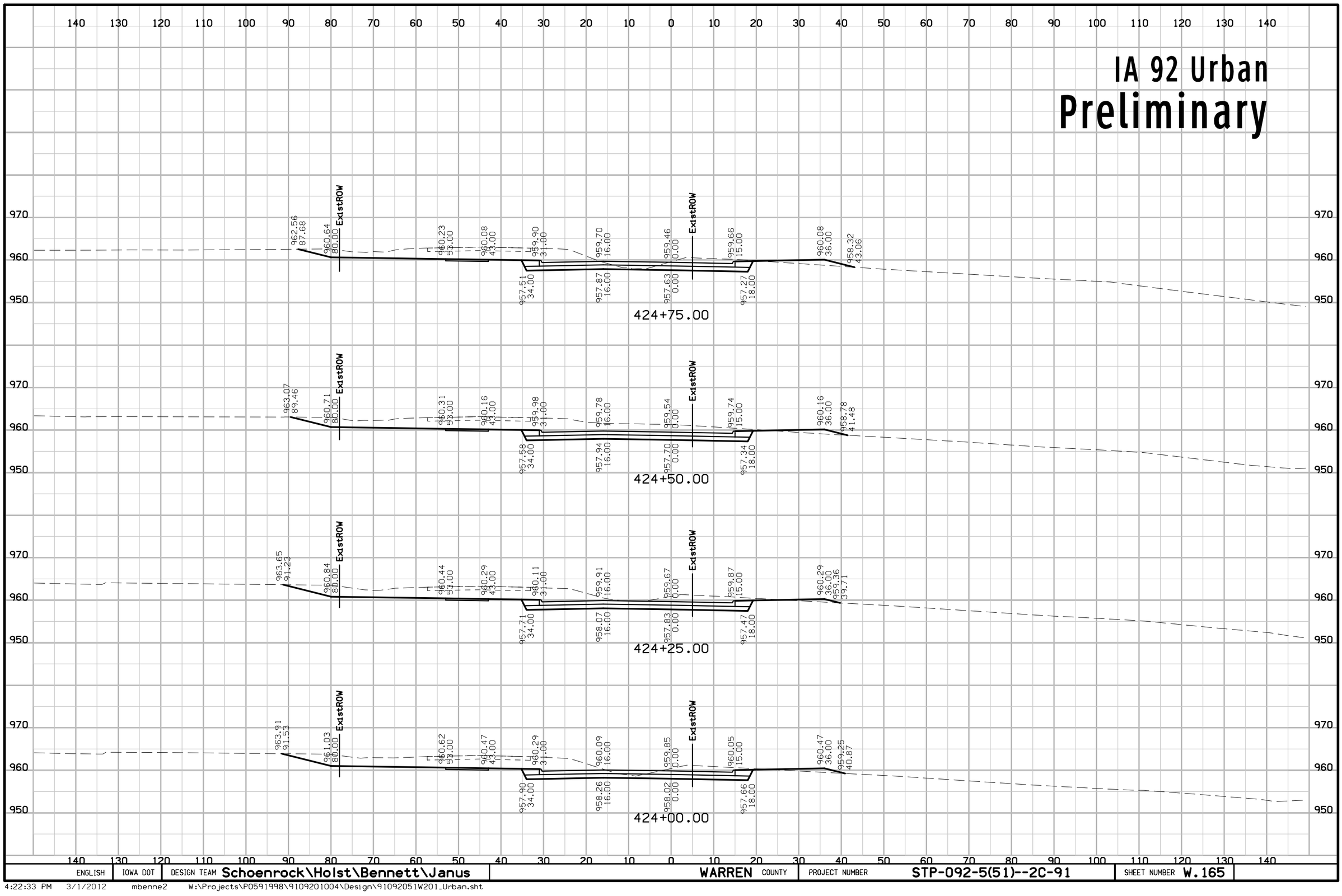
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.165

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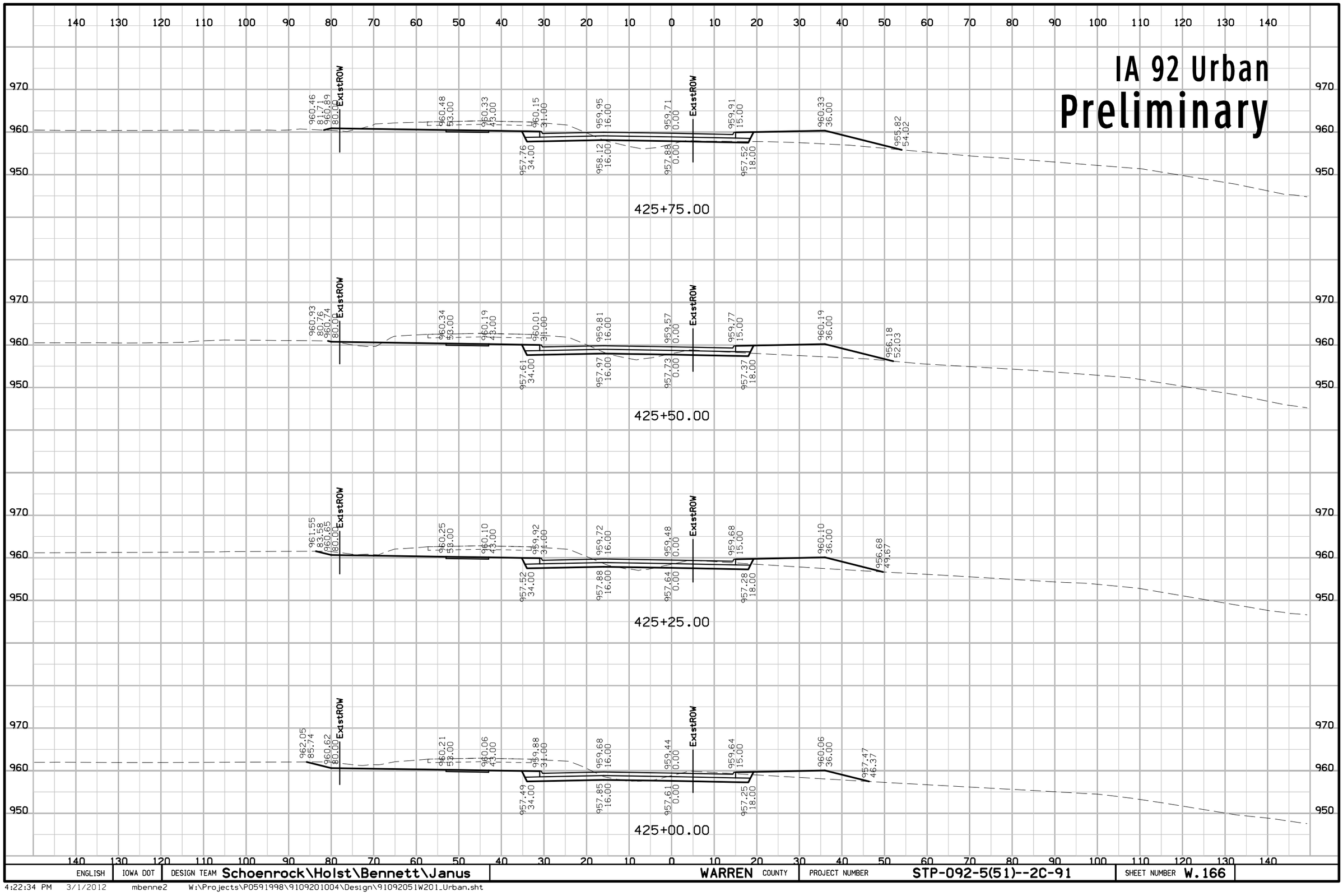
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.166

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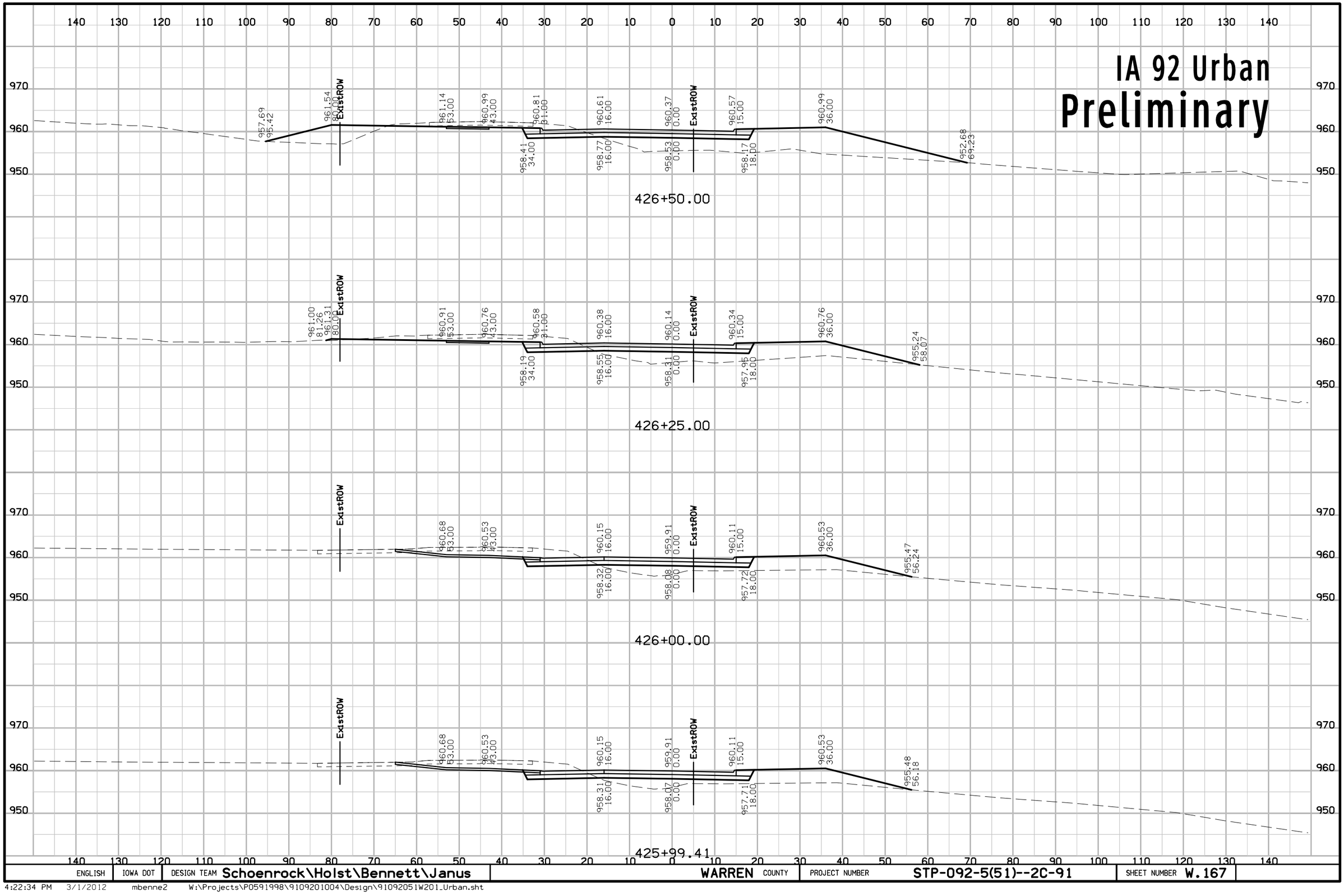
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.167

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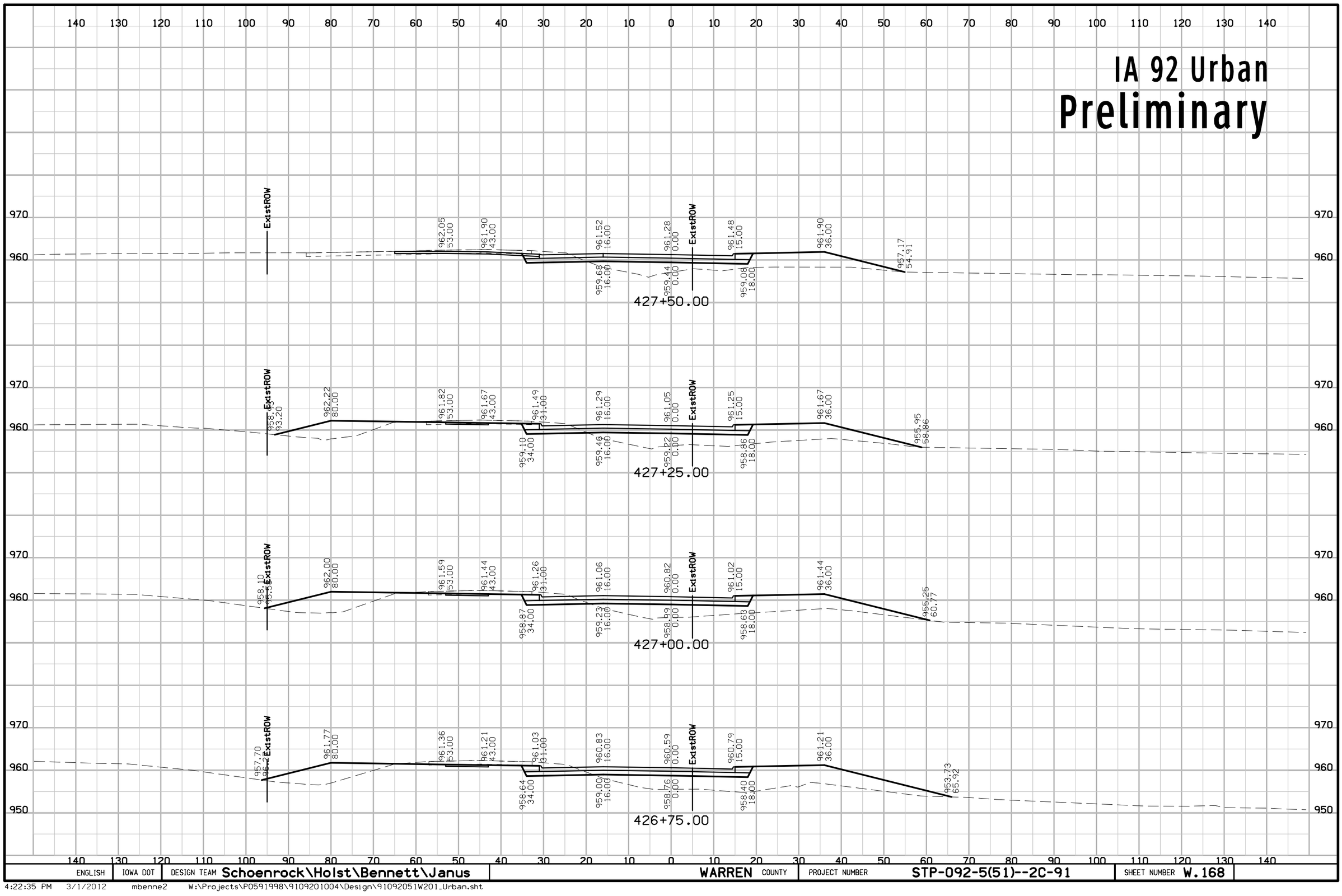
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.168

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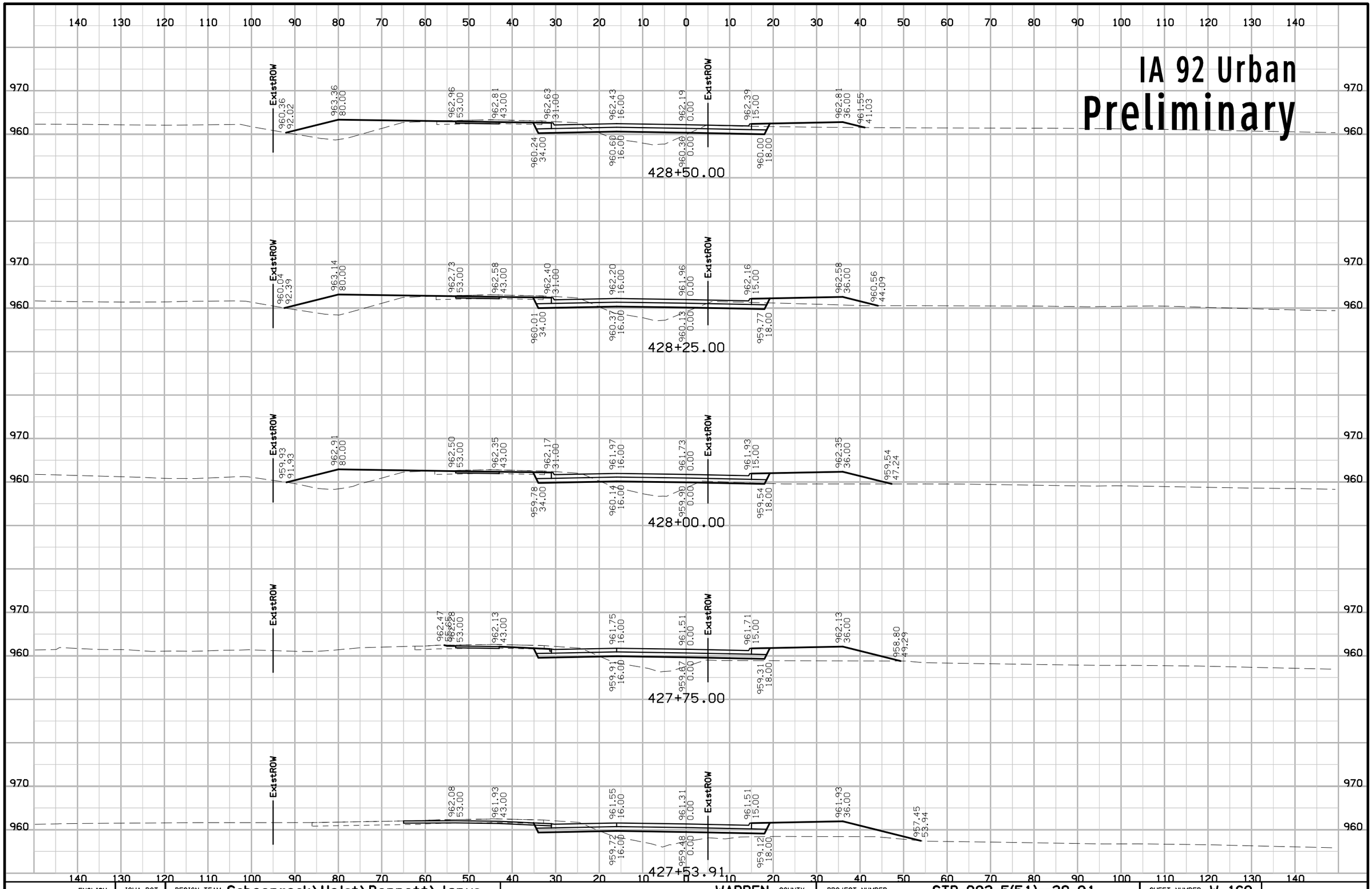
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.169

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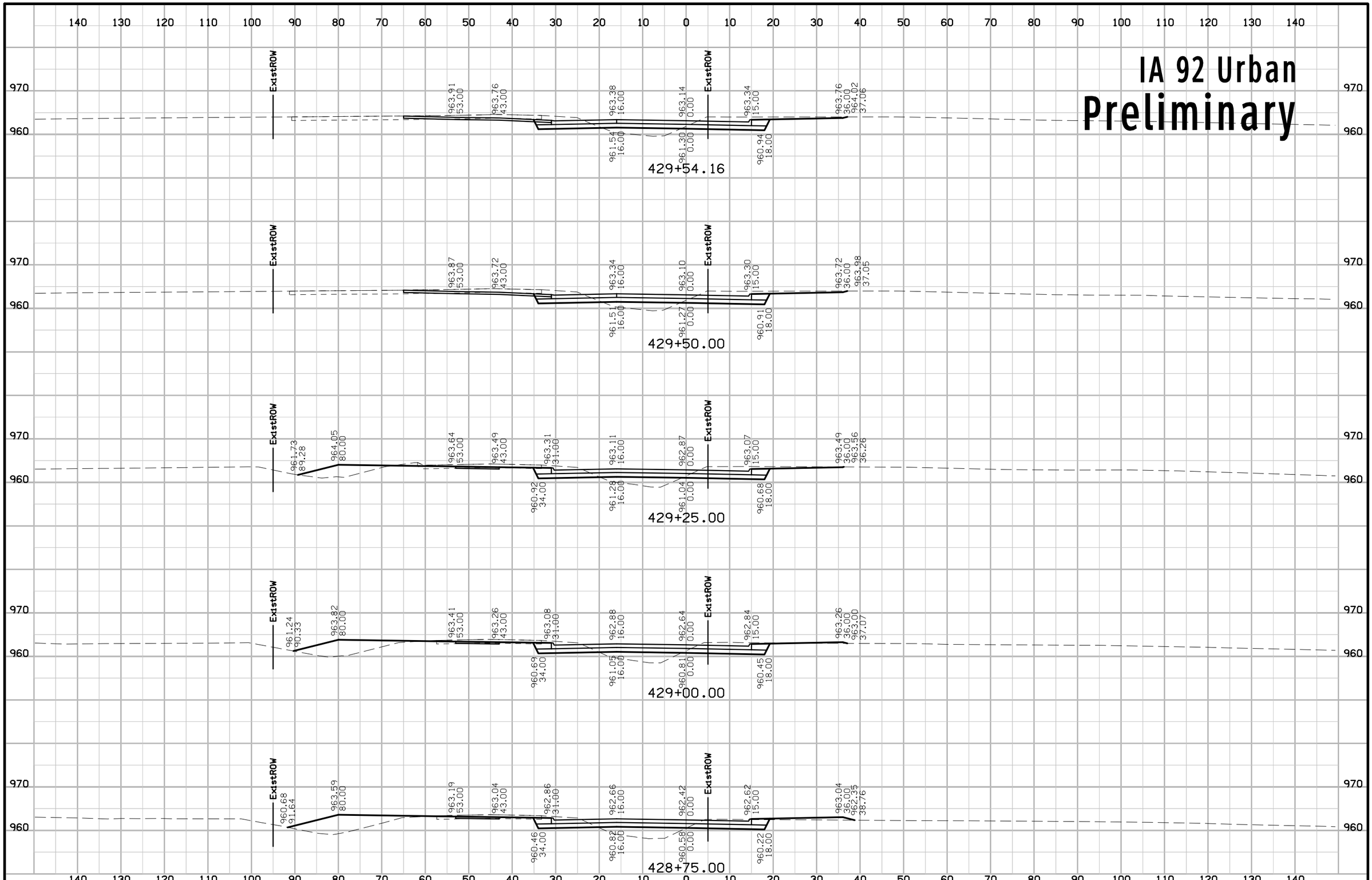
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.170

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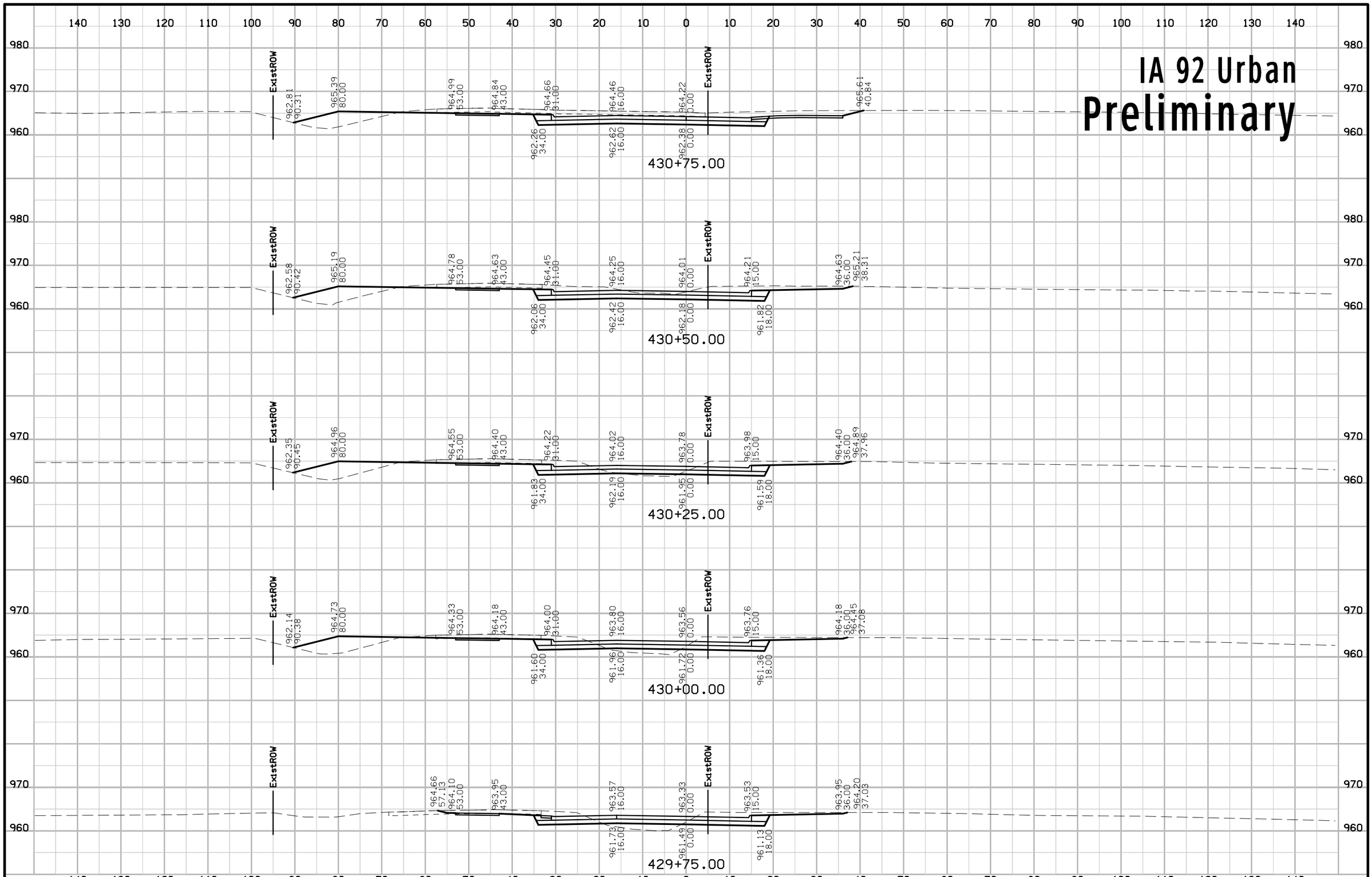
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.171

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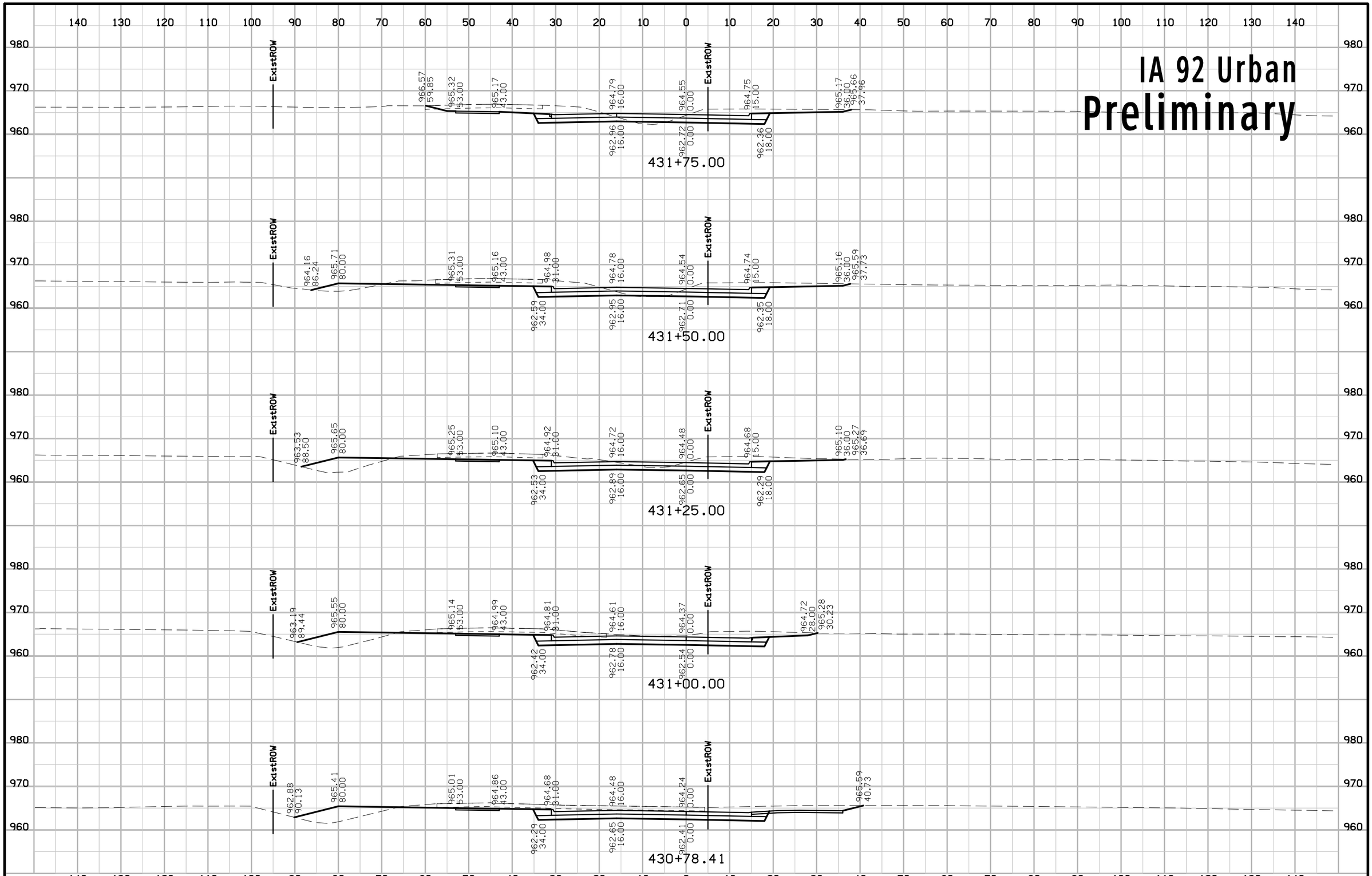
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.172

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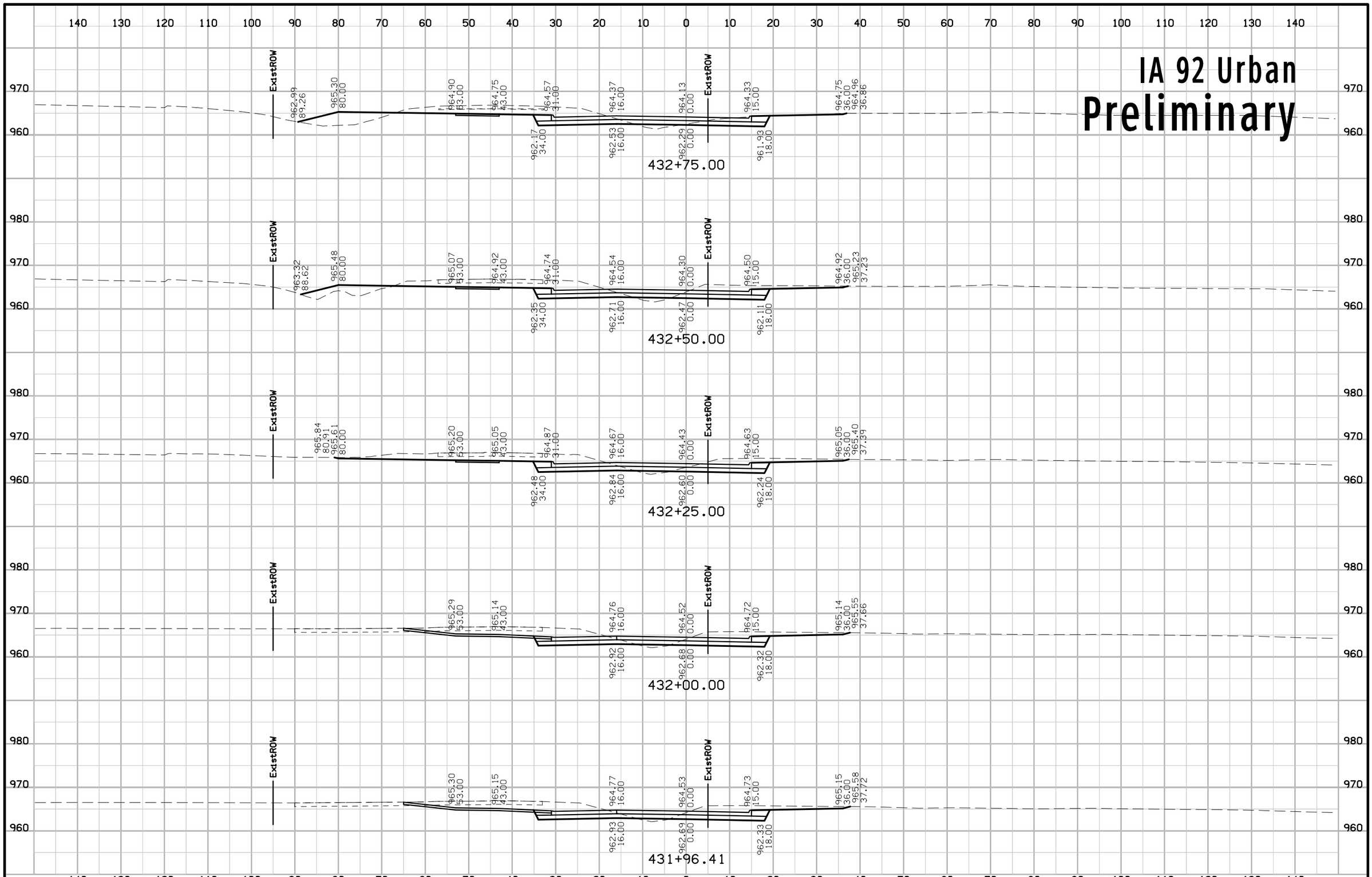
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.173

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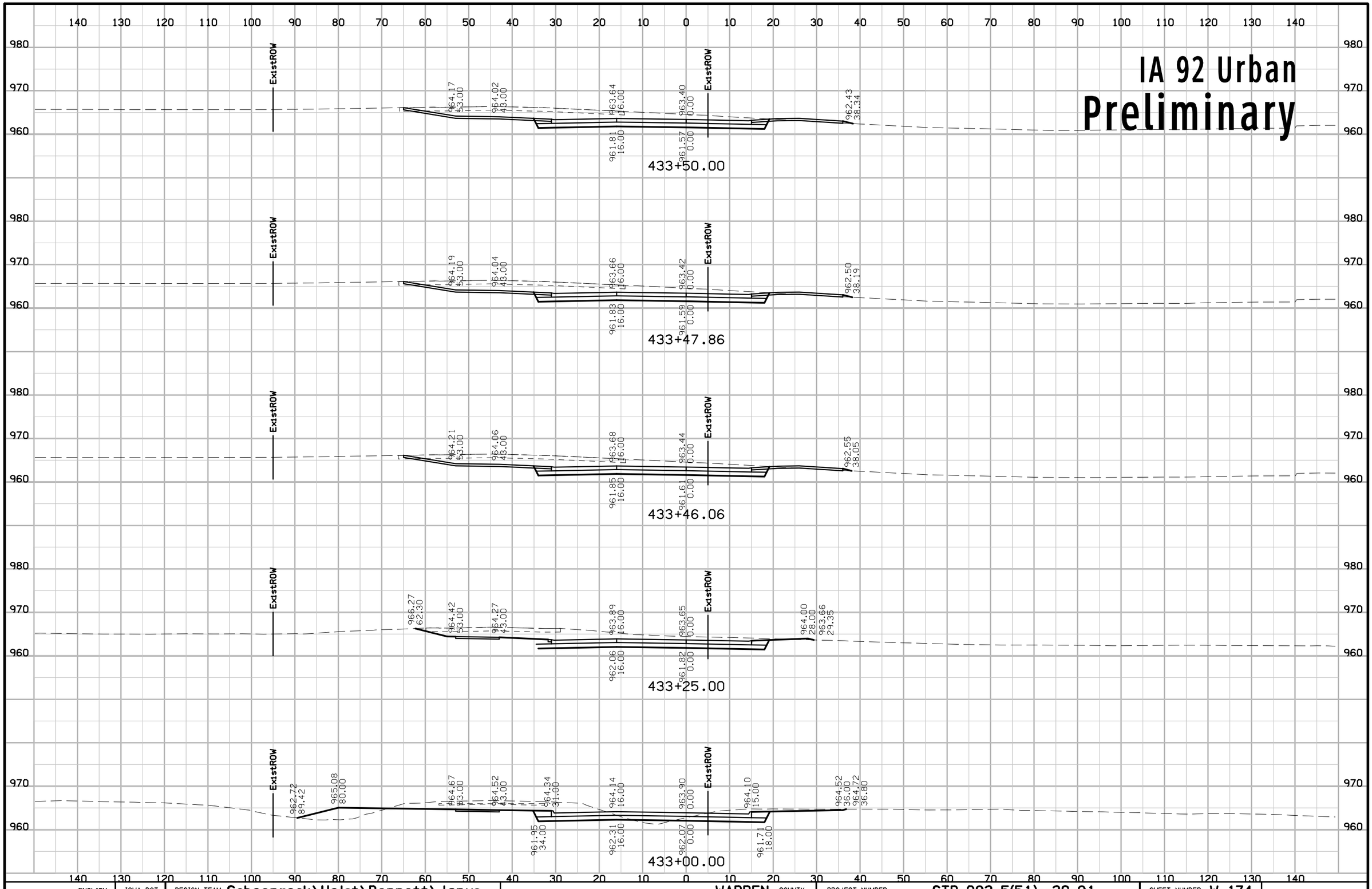
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.174

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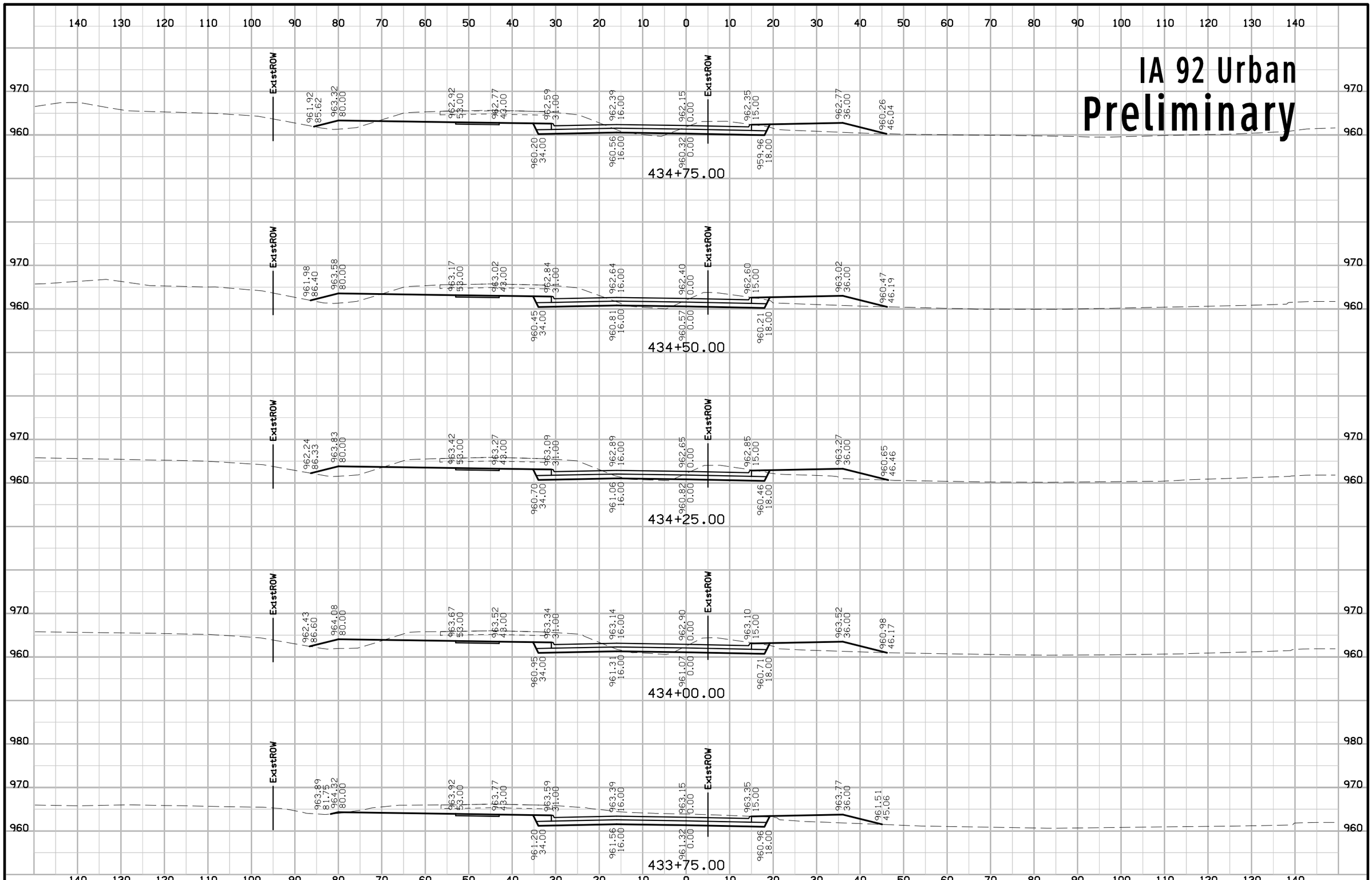
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.175

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IA 92 Urban
Preliminary

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

970
960

ExistROW

961.75 84.84 | 962.96 80.00 | 962.56 53.00 | 962.41 43.00 | 962.23 31.00 | 962.03 16.00 | 961.79 0.00 | ExistROW | 961.99 15.00 | 962.41 36.00 | 956.71 58.77

959.83 34.00 | 960.19 16.00 | 959.95 0.00 | 959.54 18.00

436+00.00

961.65 84.97 | 962.89 80.00 | 962.49 53.00 | 962.34 43.00 | 962.16 31.00 | 961.96 16.00 | 961.72 0.00 | ExistROW | 961.92 15.00 | 962.34 36.00 | 958.52 51.28

959.76 34.00 | 960.12 16.00 | 959.88 0.00 | 959.52 18.00

435+75.00

961.58 85.24 | 962.89 80.00 | 962.49 53.00 | 962.34 43.00 | 962.16 31.00 | 961.96 16.00 | 961.72 0.00 | ExistROW | 961.92 15.00 | 962.34 36.00 | 959.62 46.88

959.77 34.00 | 960.13 16.00 | 959.89 0.00 | 959.53 18.00

435+50.00

961.72 85.00 | 962.97 80.00 | 962.56 53.00 | 962.41 43.00 | 962.23 31.00 | 962.03 16.00 | 961.79 0.00 | ExistROW | 961.99 15.00 | 962.41 36.00 | 961.21 40.82

959.84 34.00 | 960.20 16.00 | 959.96 0.00 | 959.60 18.00

435+25.00

961.77 85.37 | 963.11 80.00 | 962.71 53.00 | 962.56 43.00 | 962.38 31.00 | 962.18 16.00 | 961.94 0.00 | ExistROW | 962.14 15.00 | 962.56 36.00 | 962.01 38.18

959.98 34.00 | 960.34 16.00 | 960.10 0.00 | 959.74 18.00

435+00.00

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 Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.176

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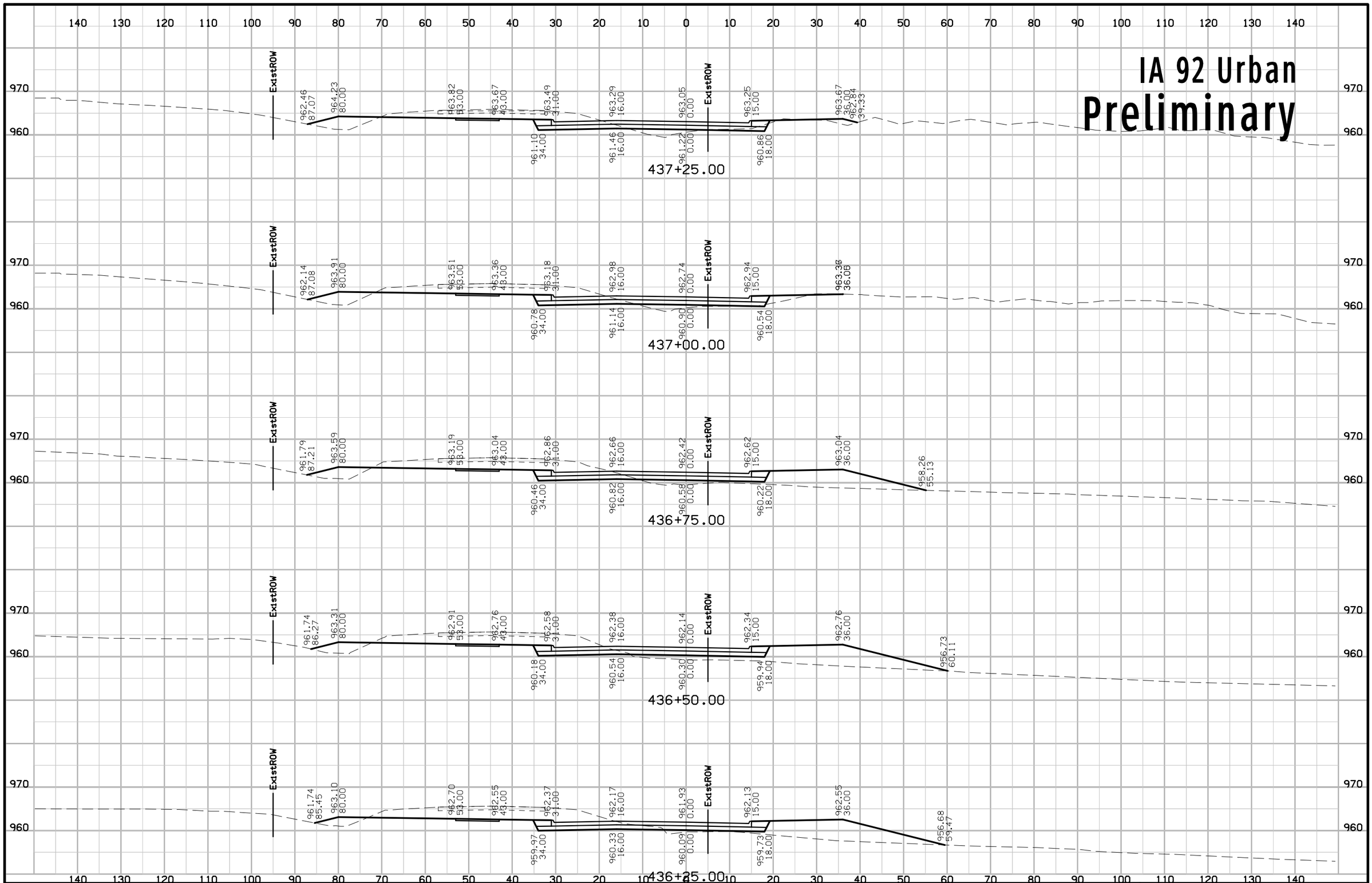
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.177

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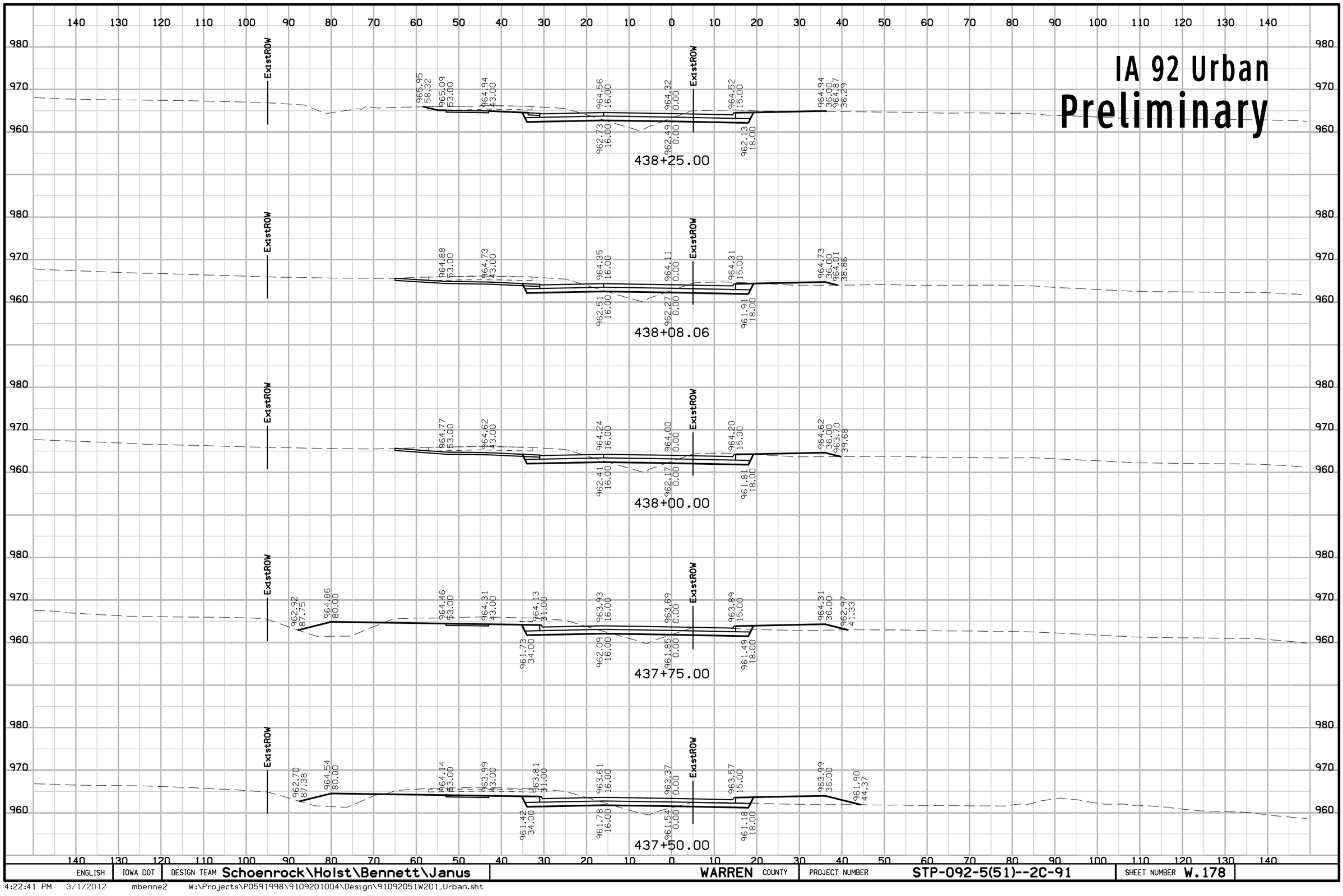
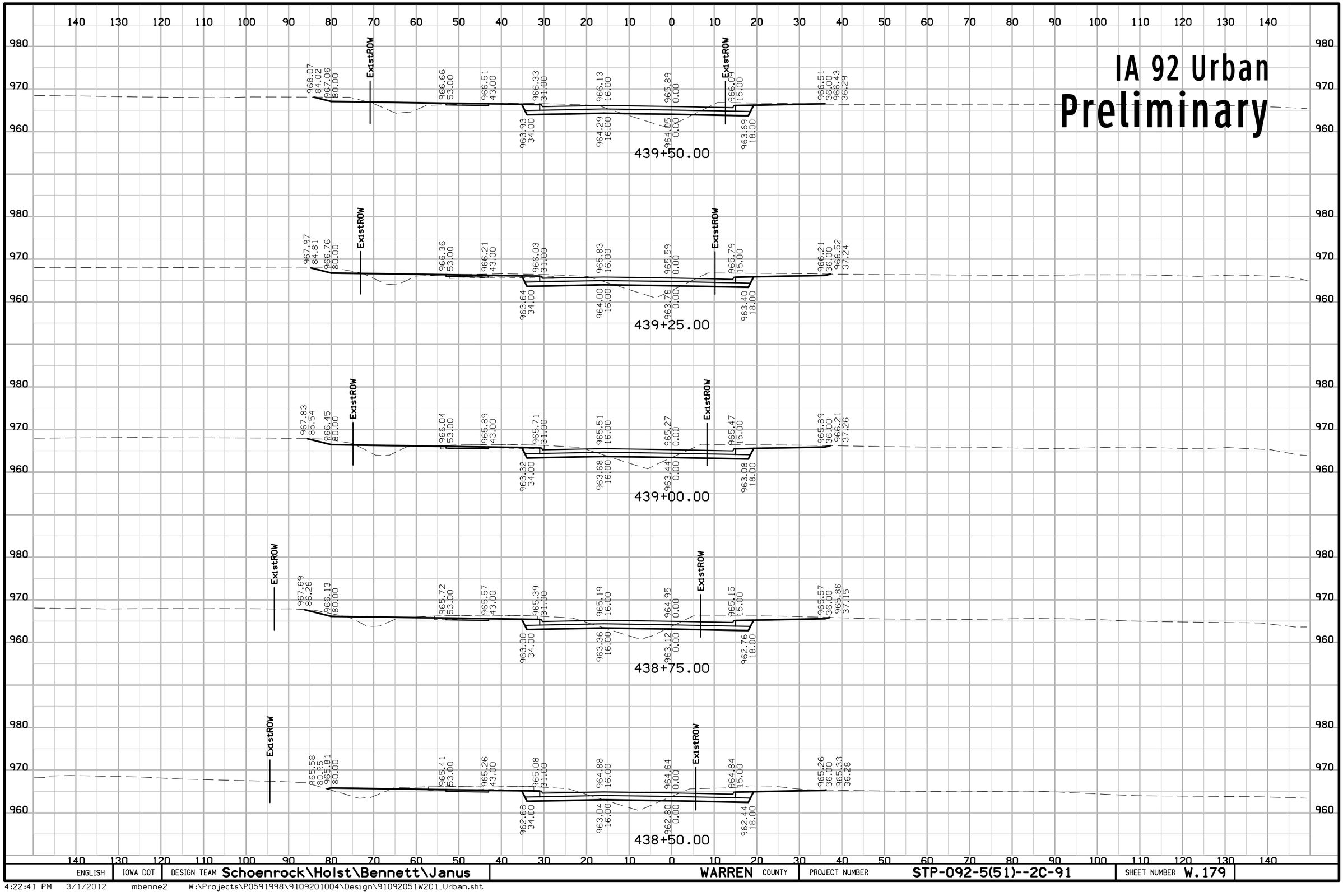
IA 92 Urban
Preliminary



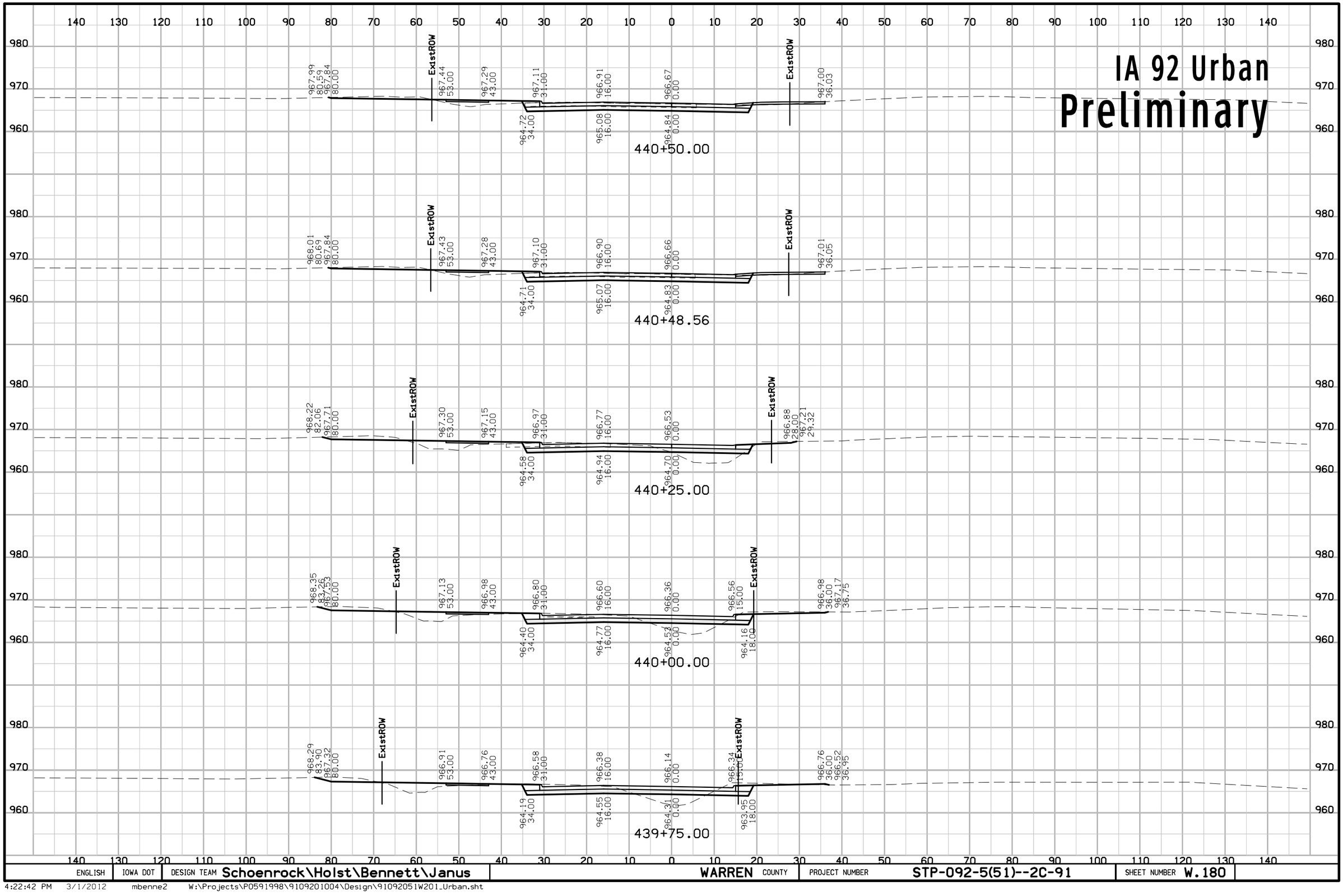
ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.178

IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.179

IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.180

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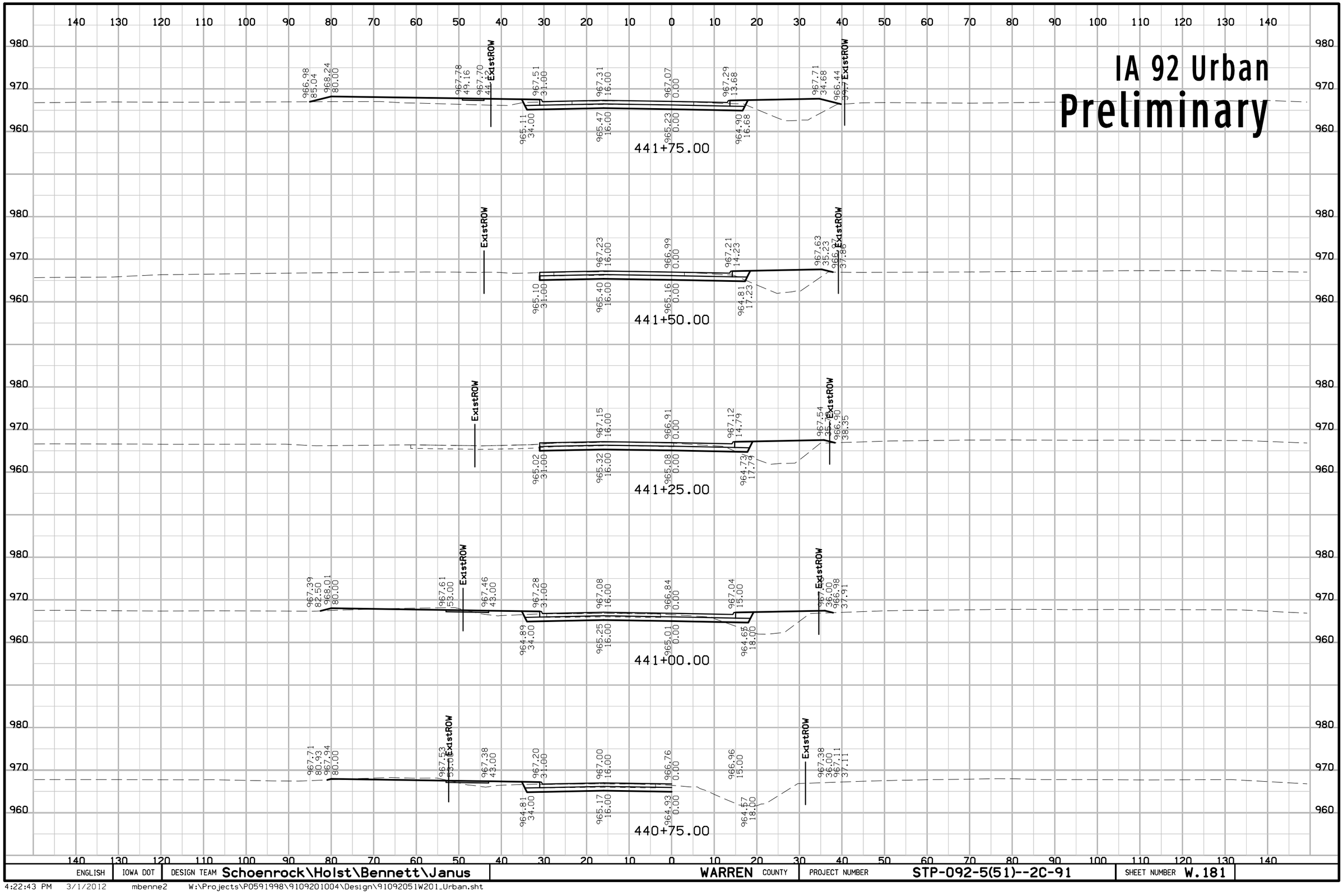
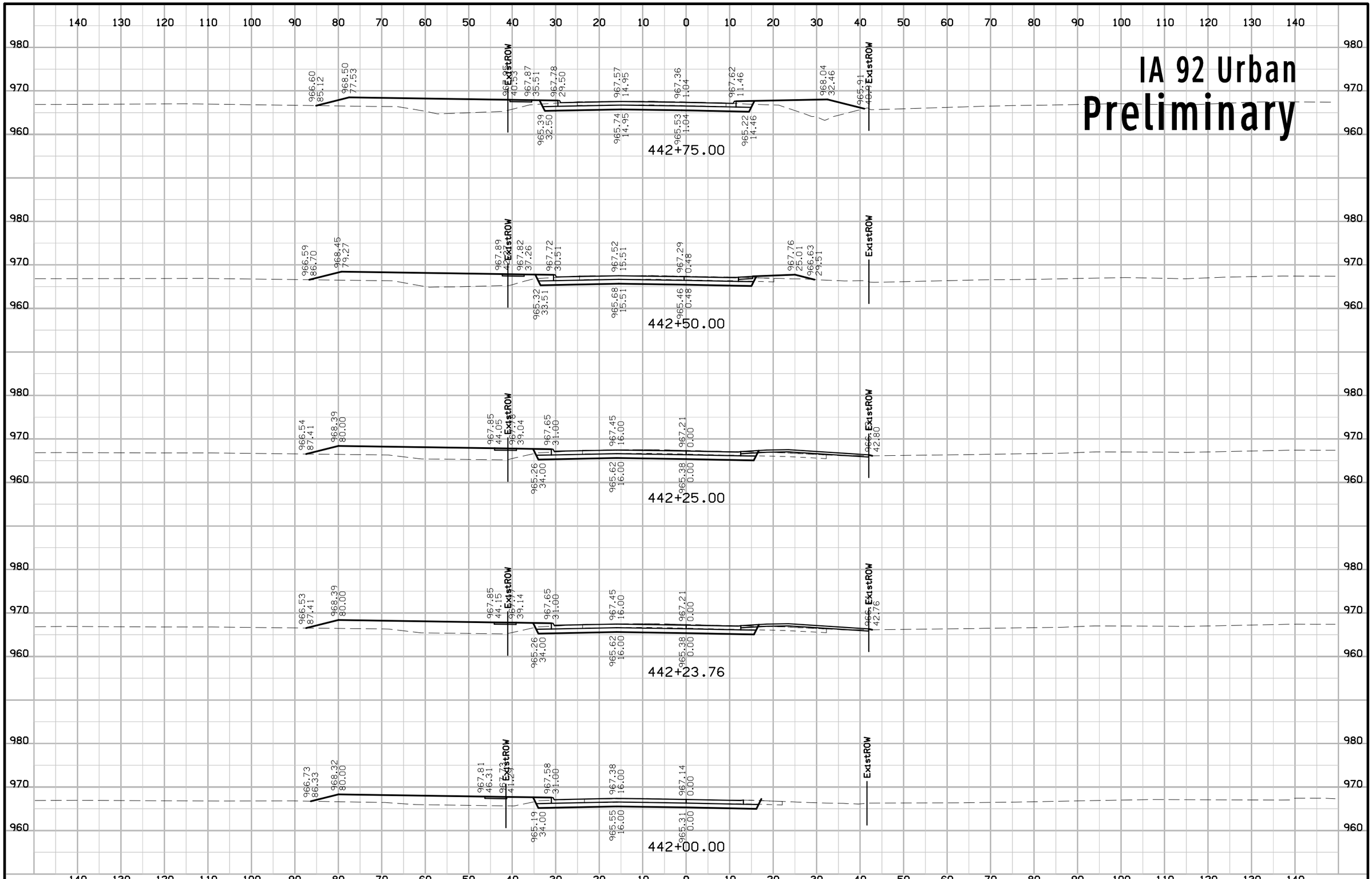
IA 92 Urban
Preliminary



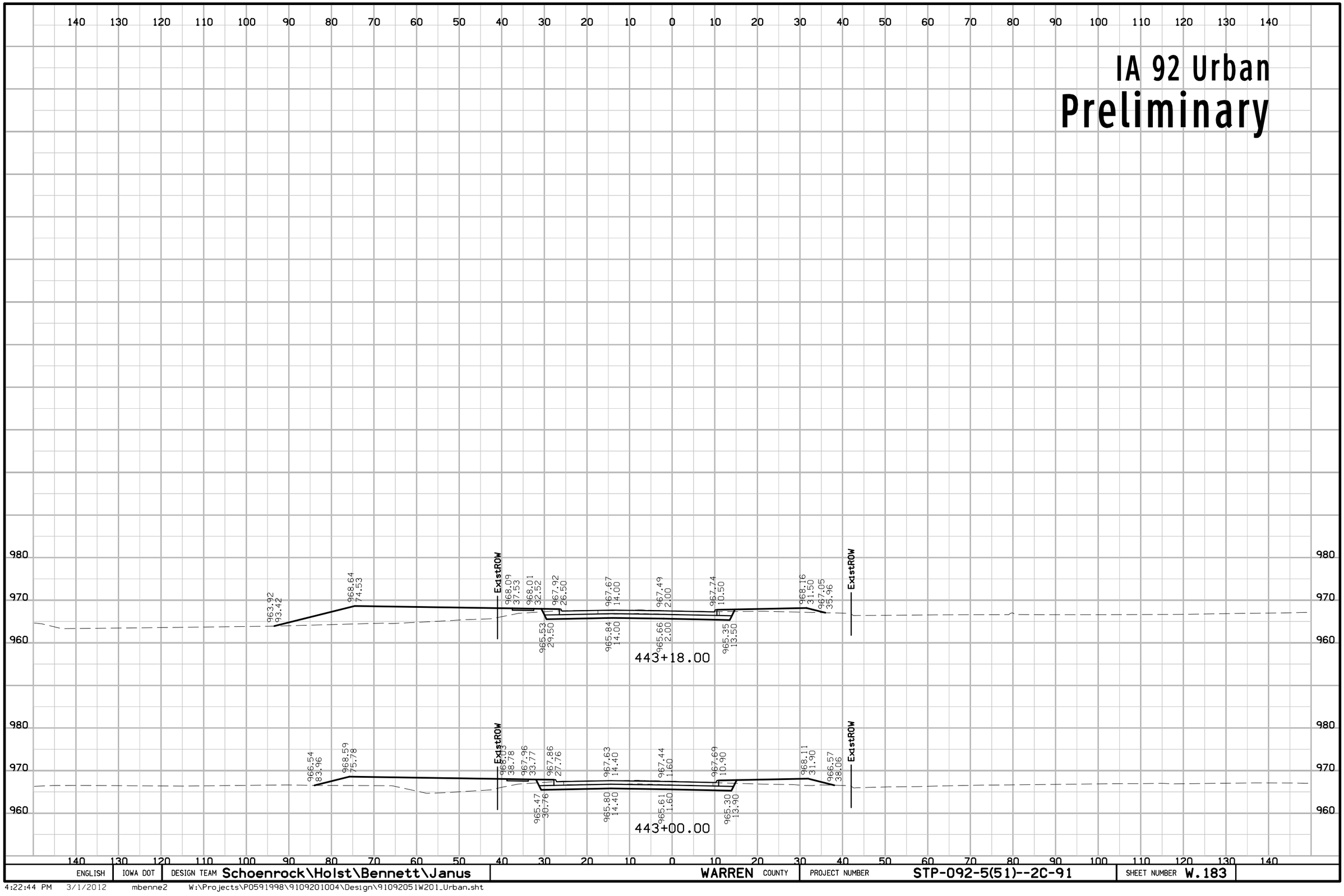
ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.181

IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.182

IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.183

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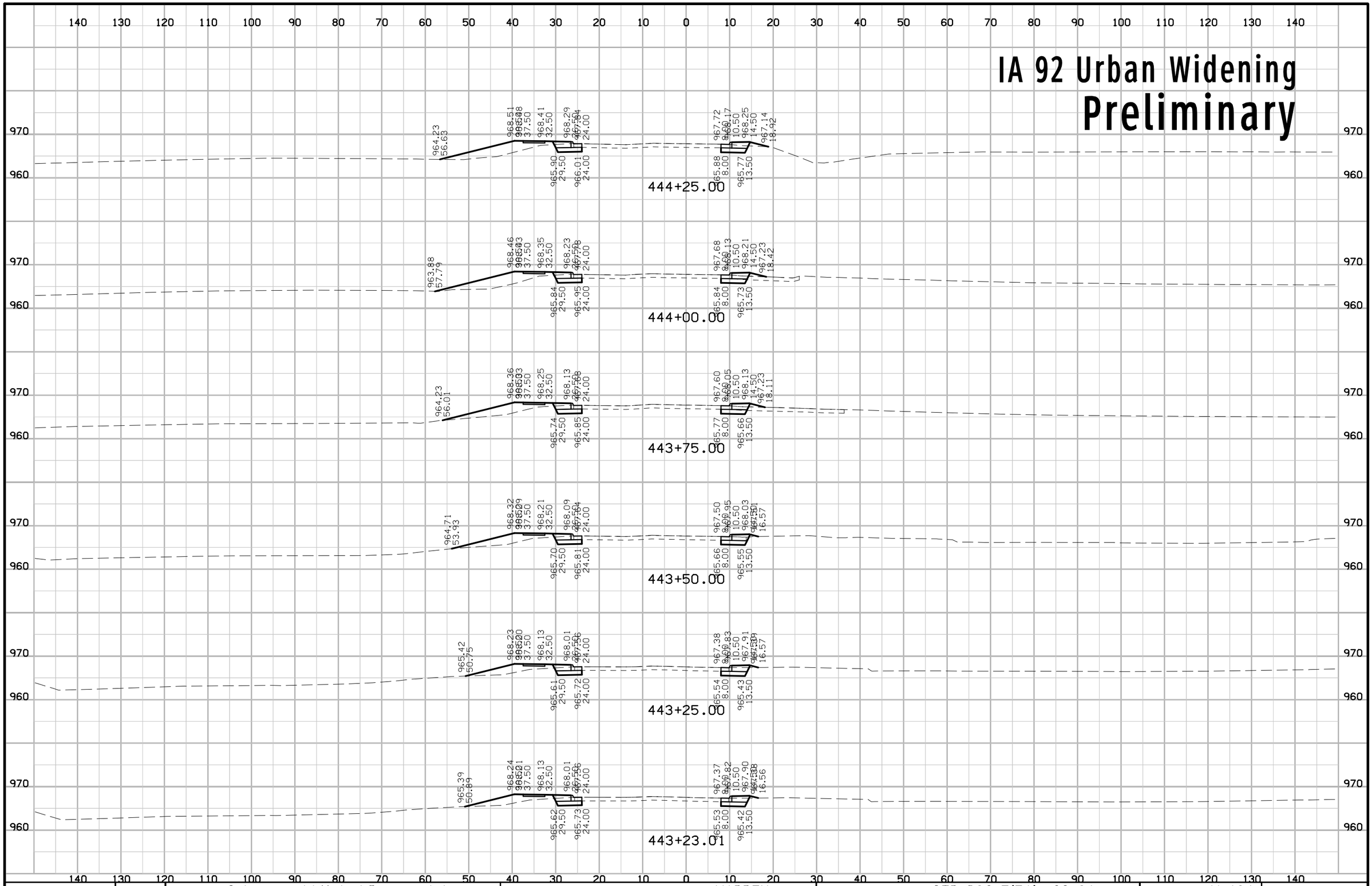
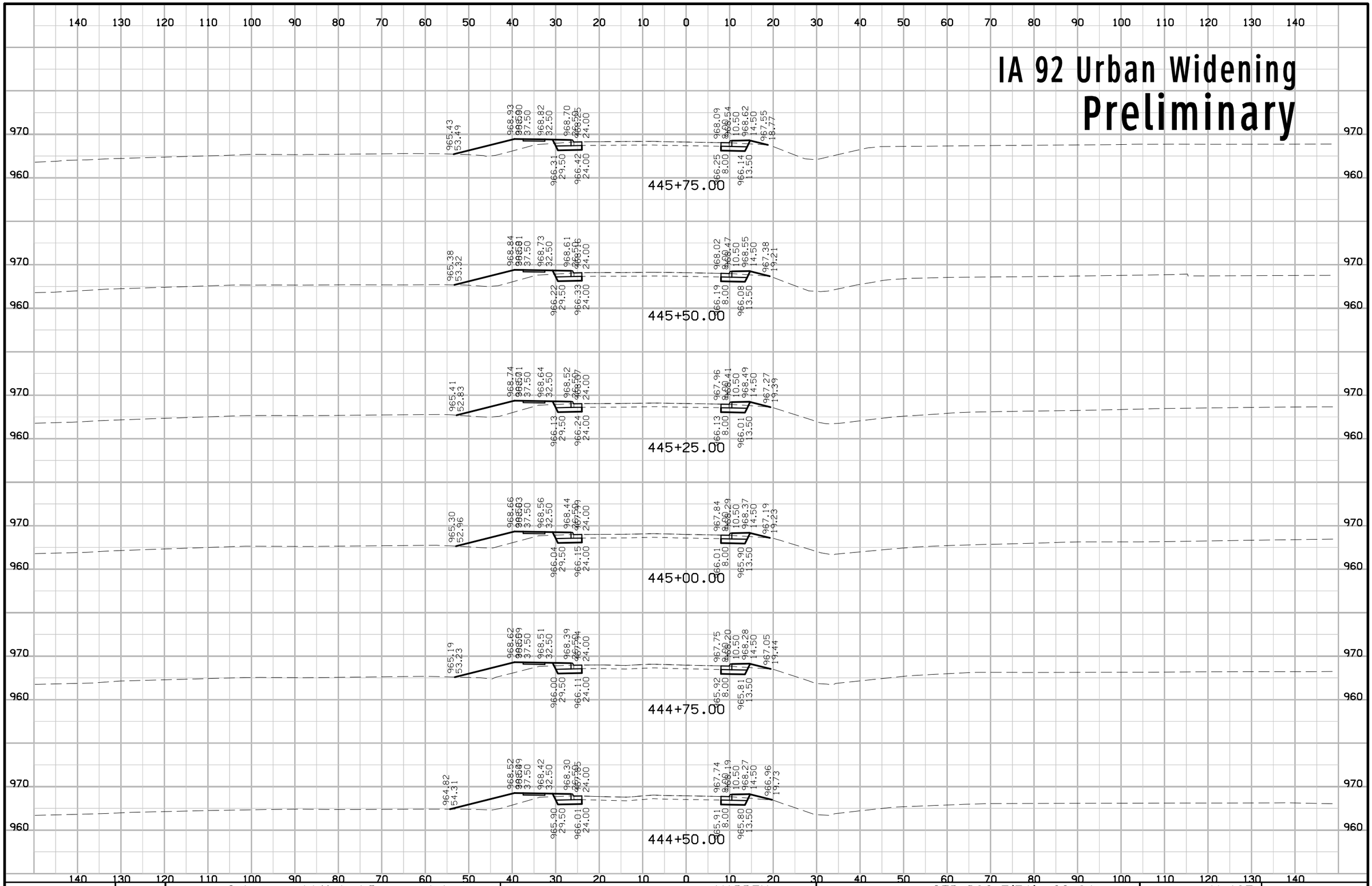
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.184

IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.185

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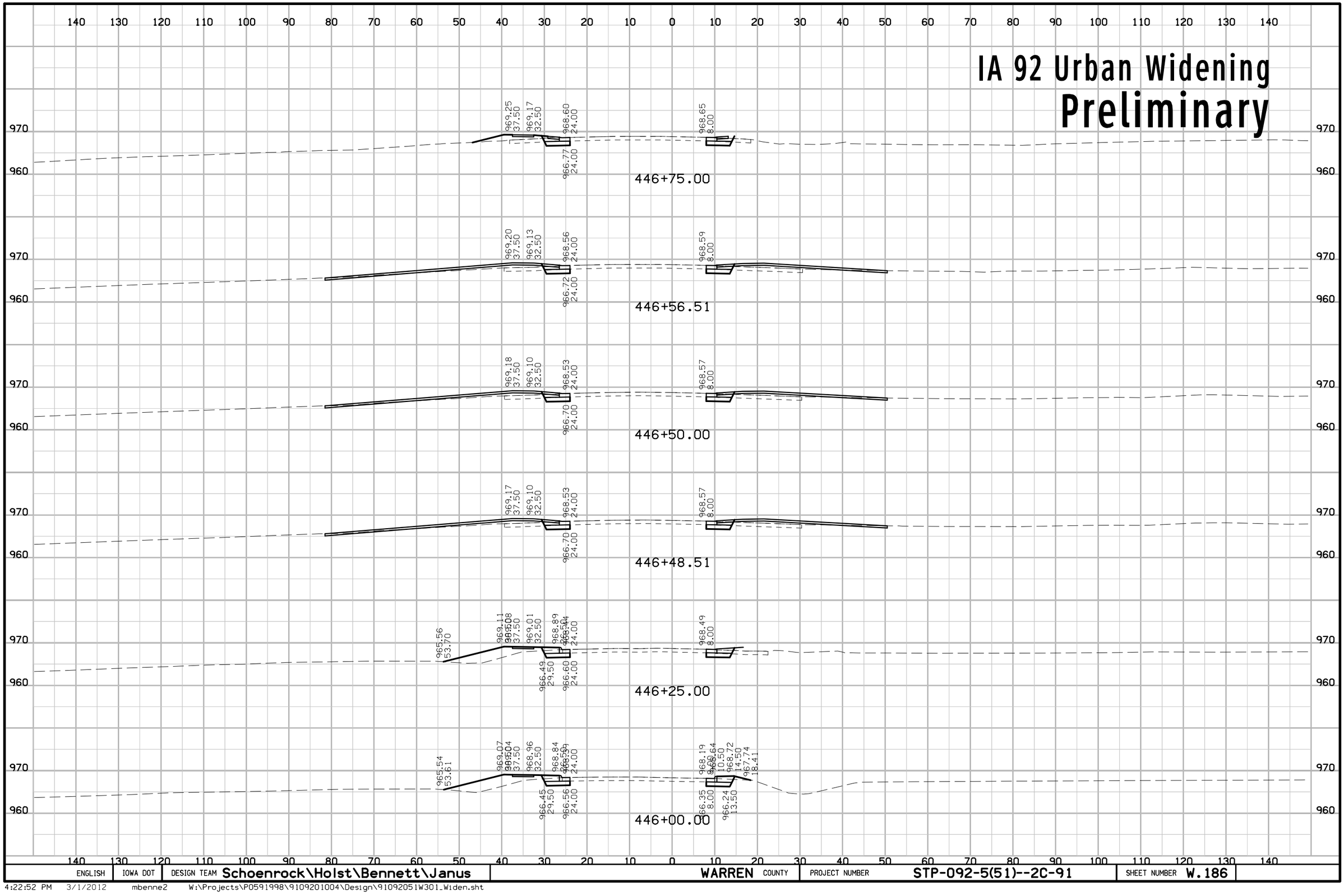
IA 92 Urban Widening
Preliminary



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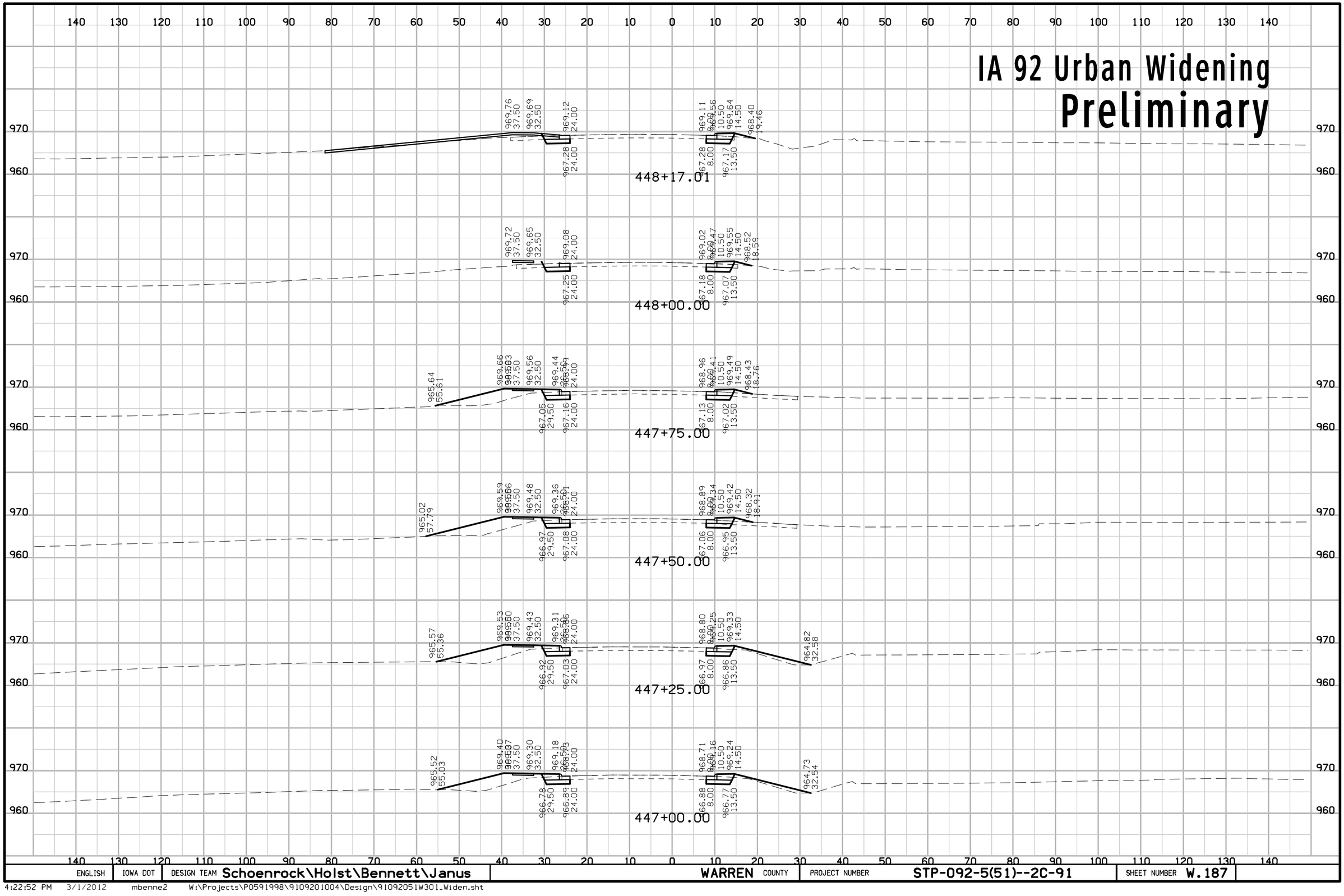
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.187

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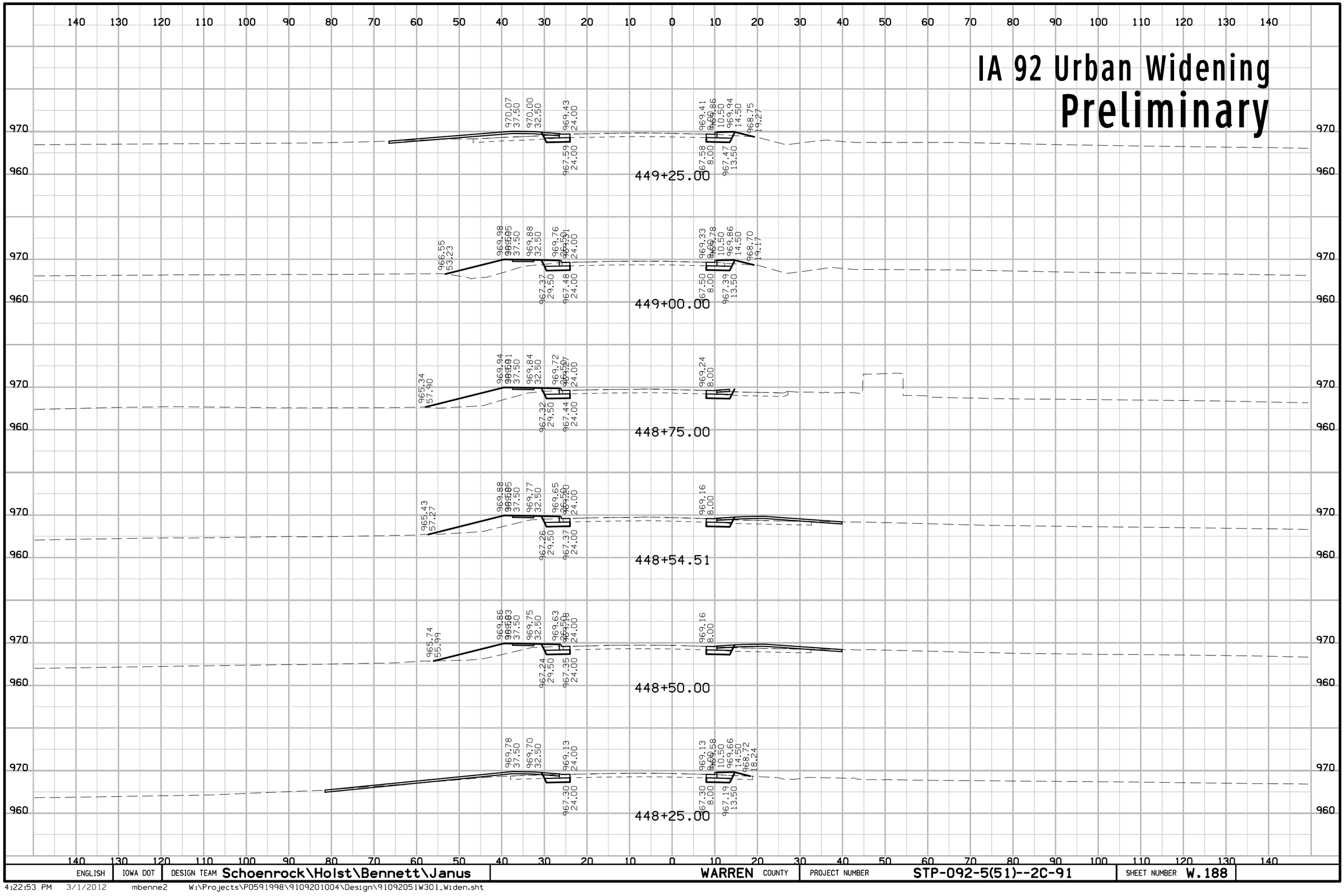
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.188

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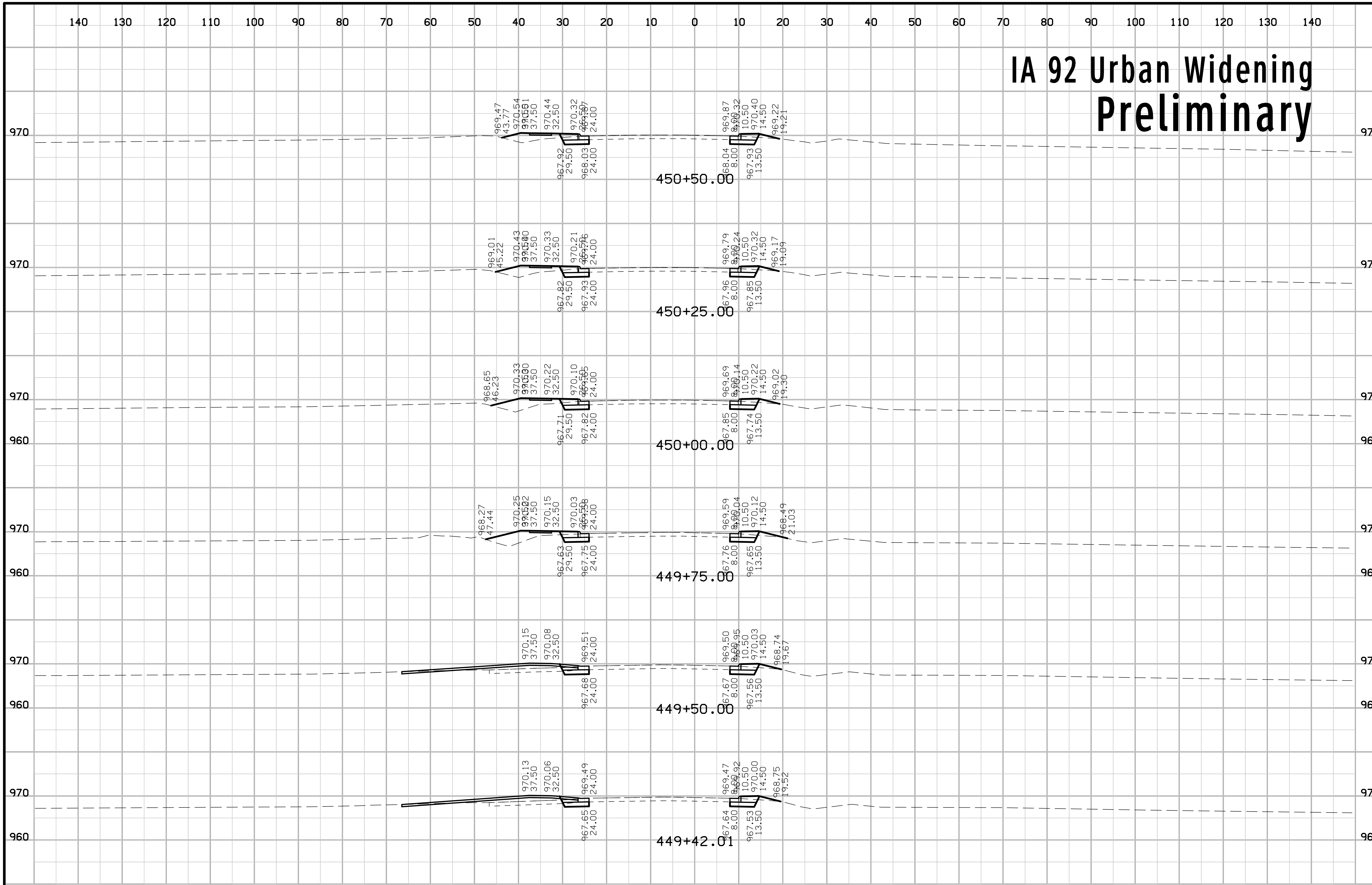
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.189

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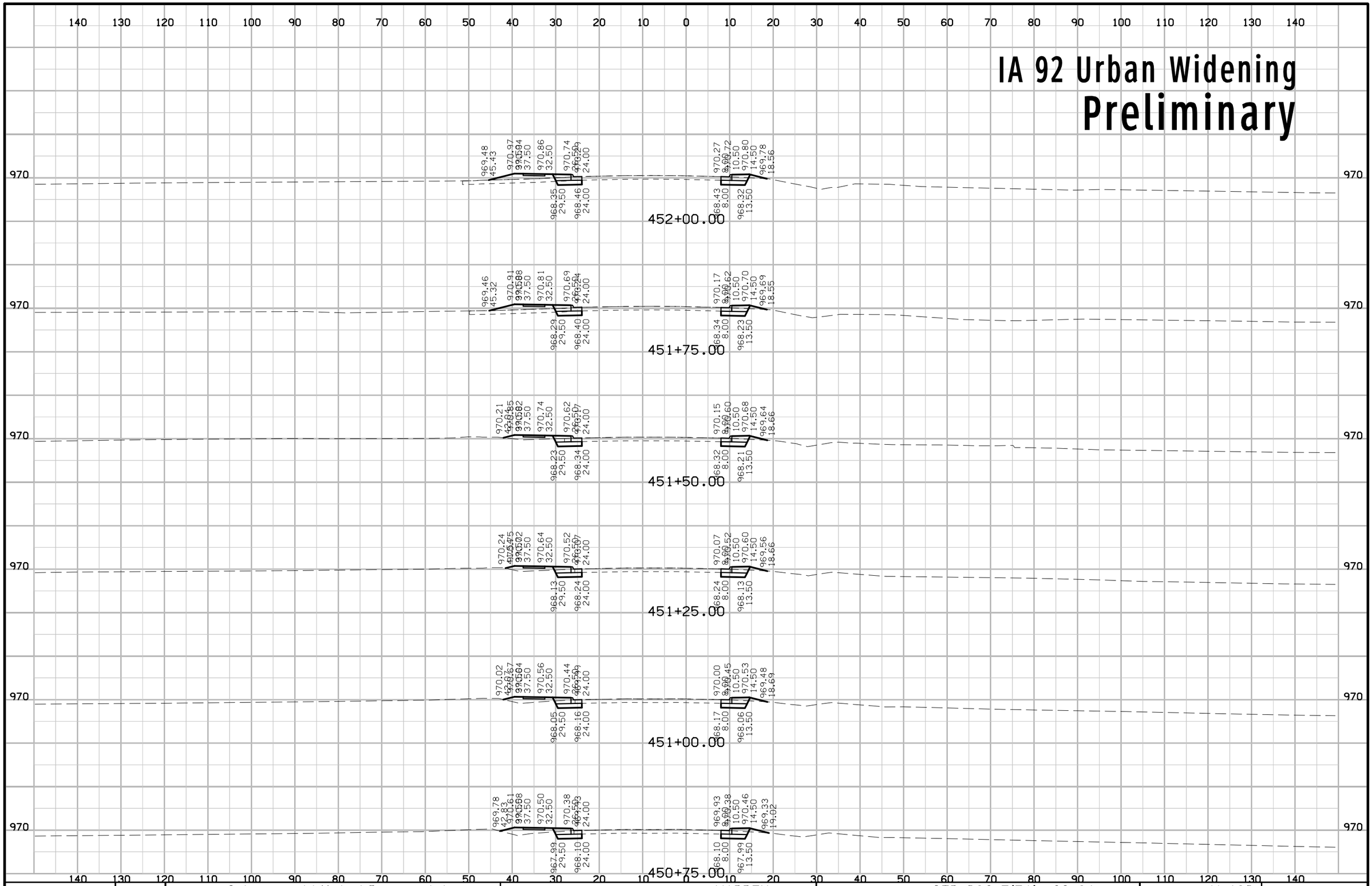
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.190

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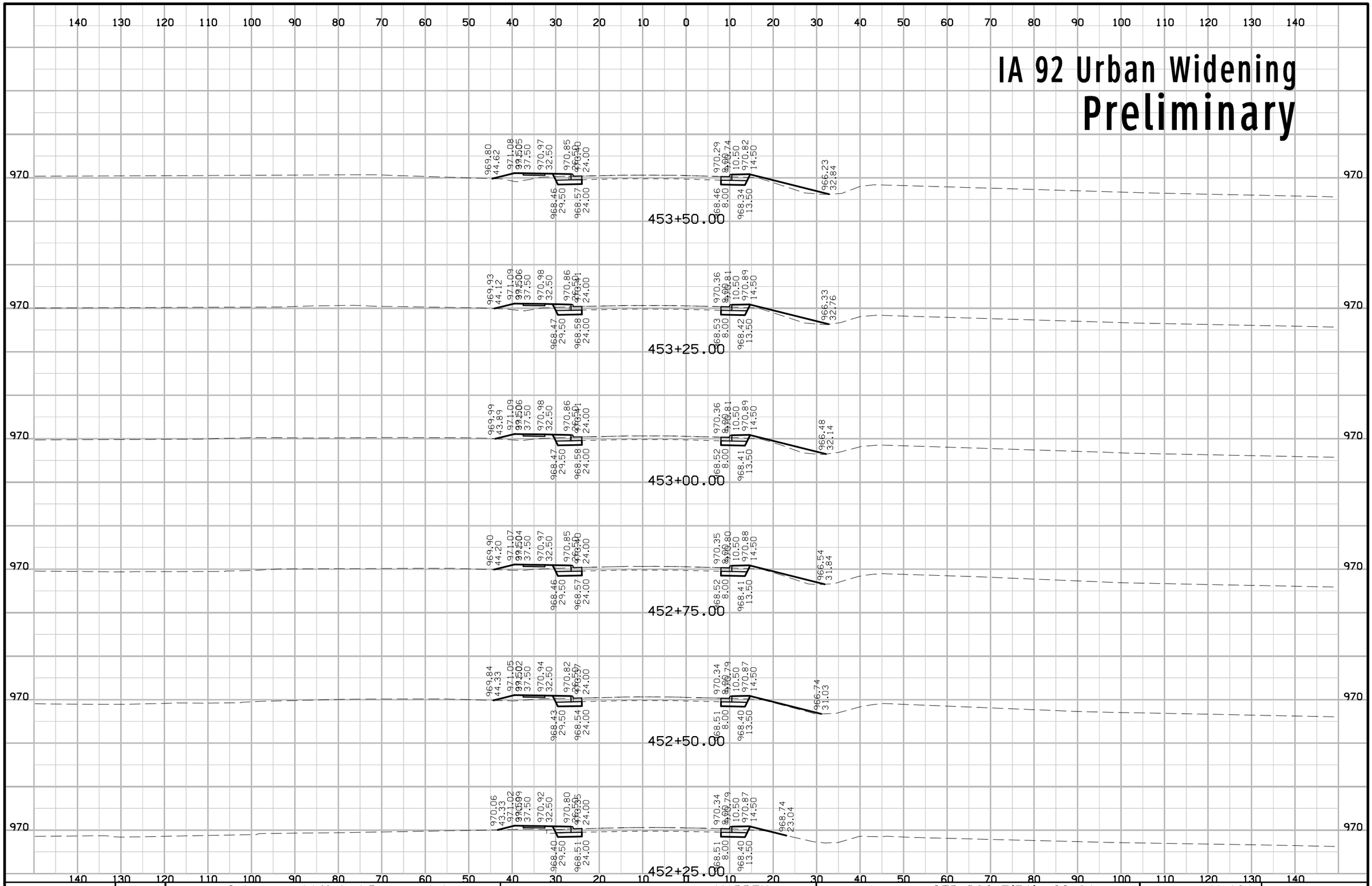
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.191

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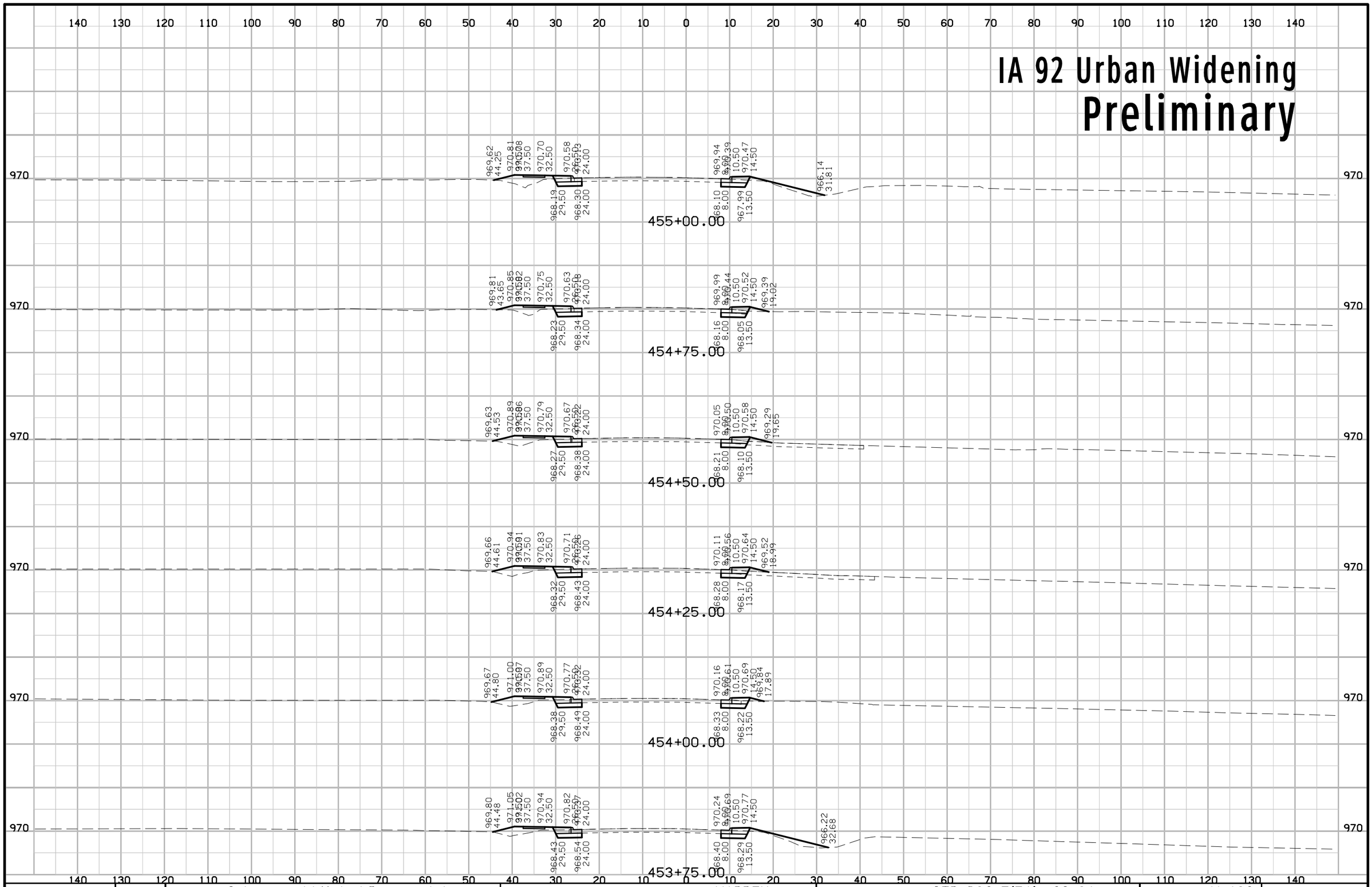
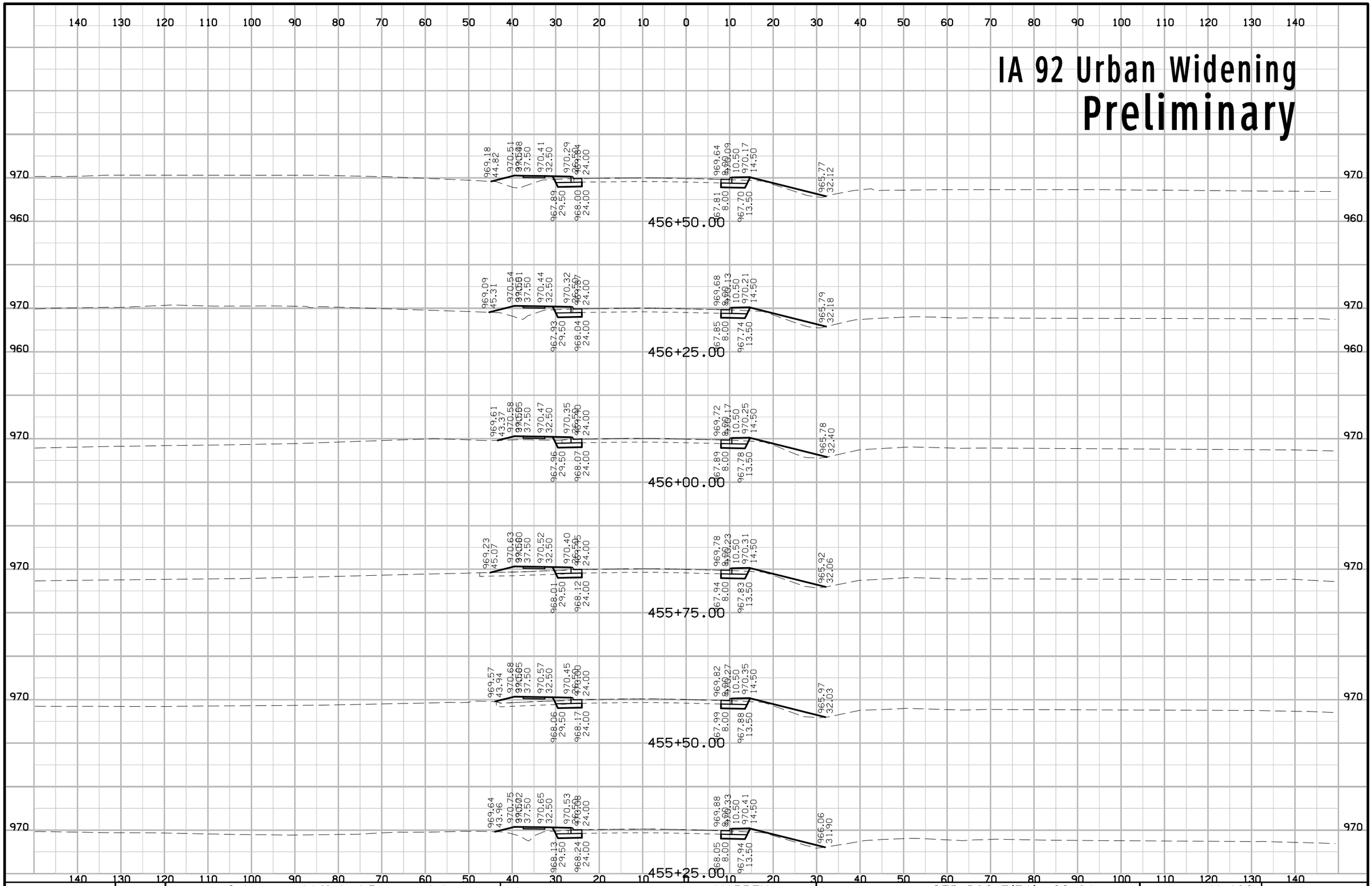
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.192

IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.193

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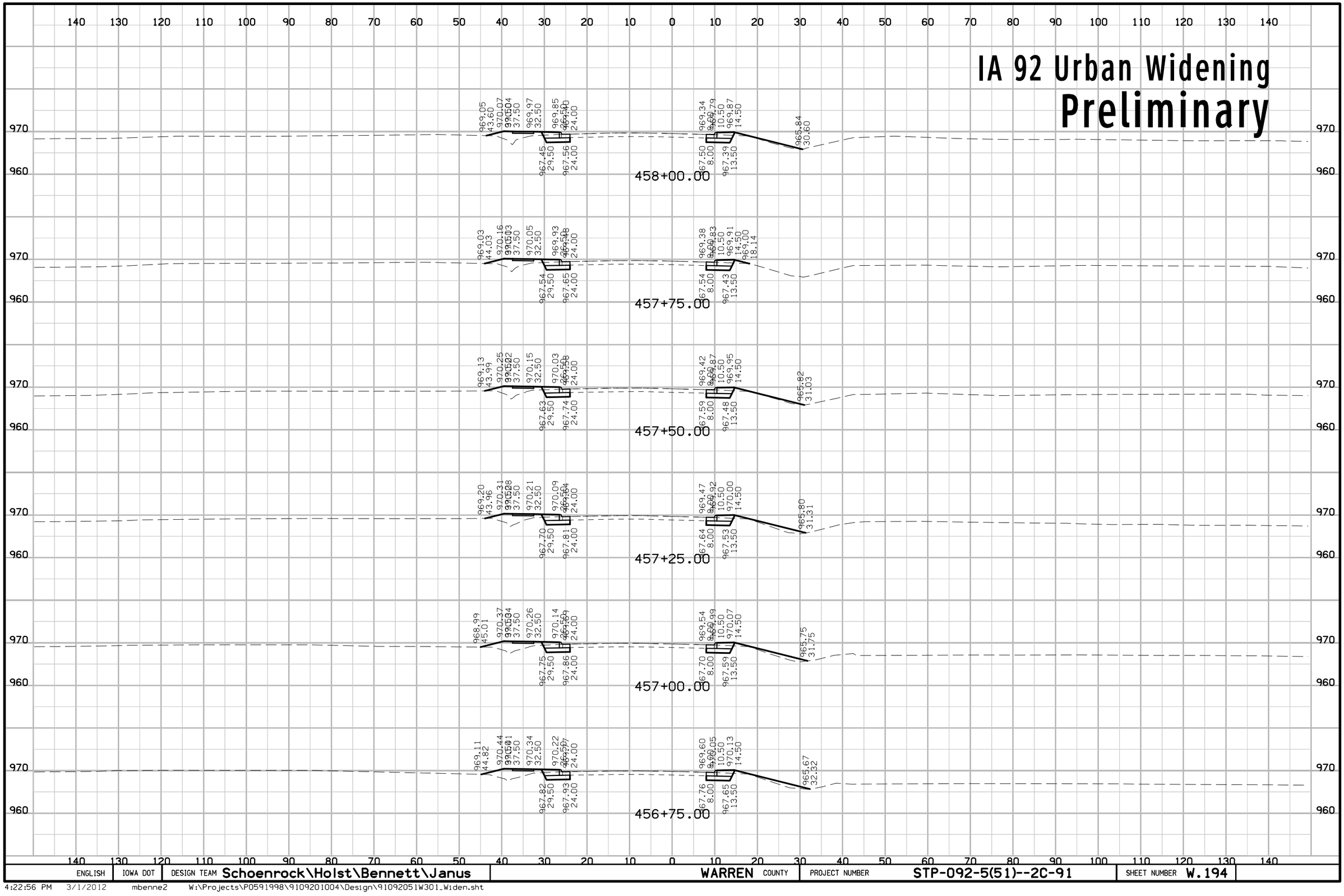
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.194

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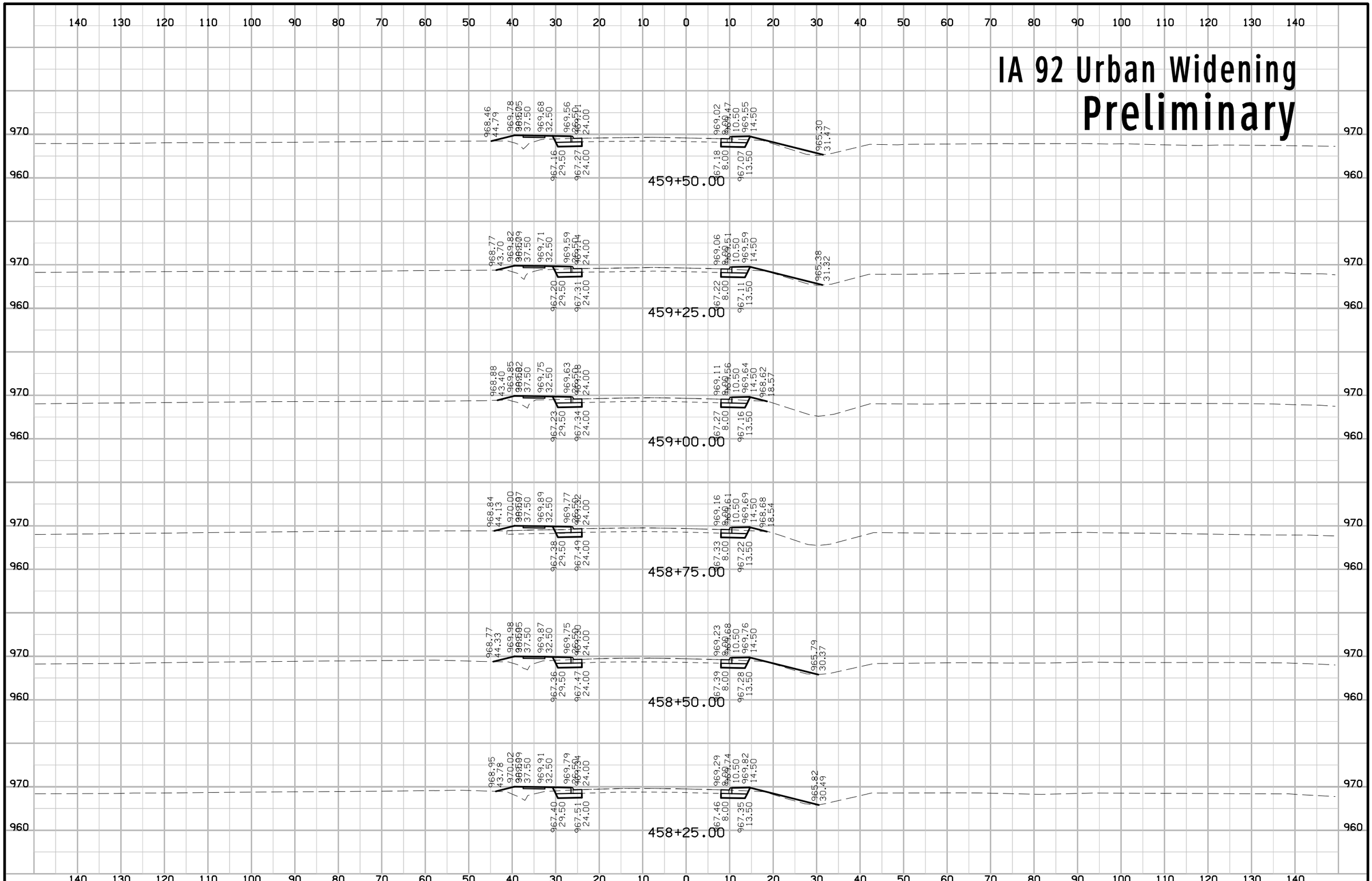
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.195

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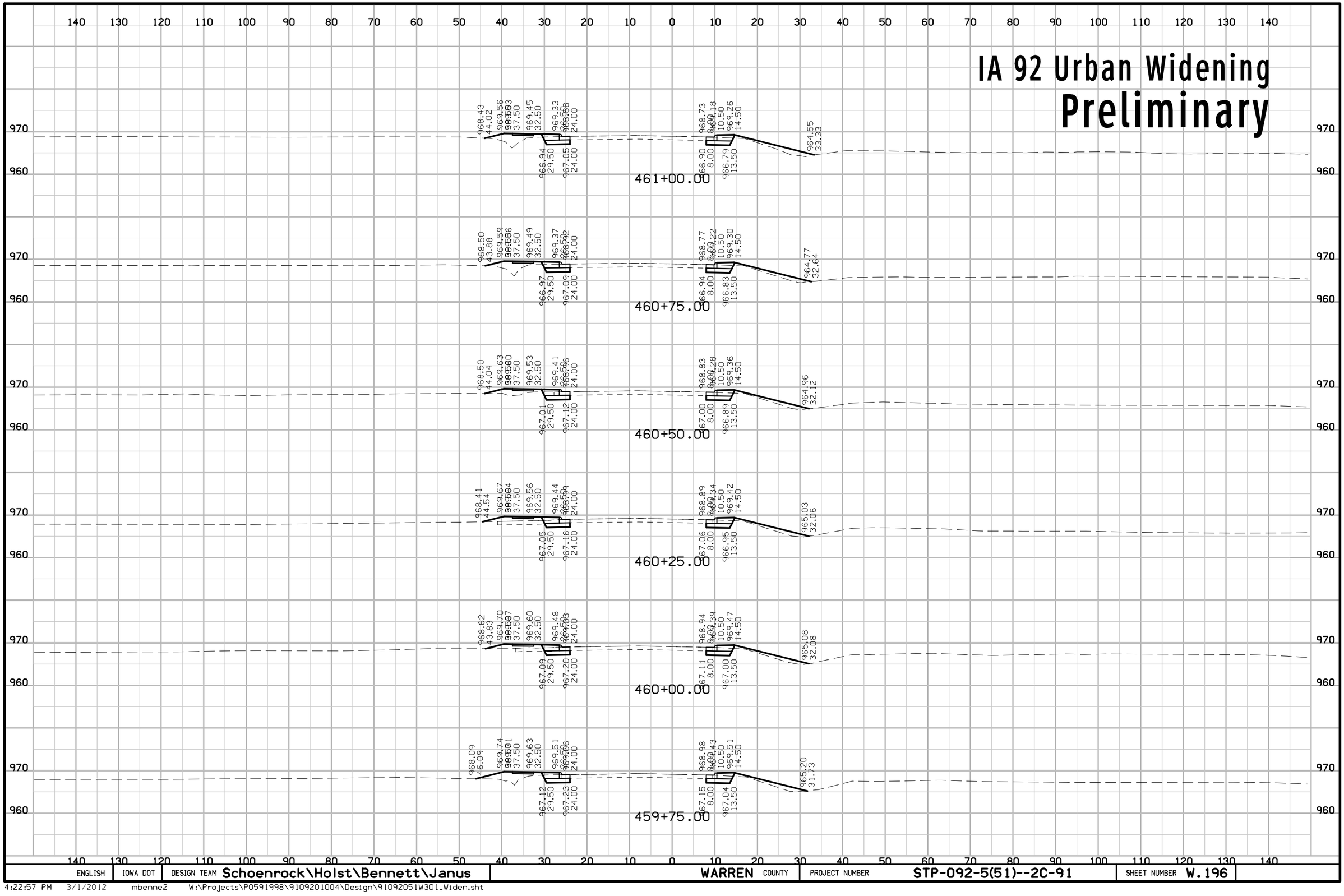
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.196

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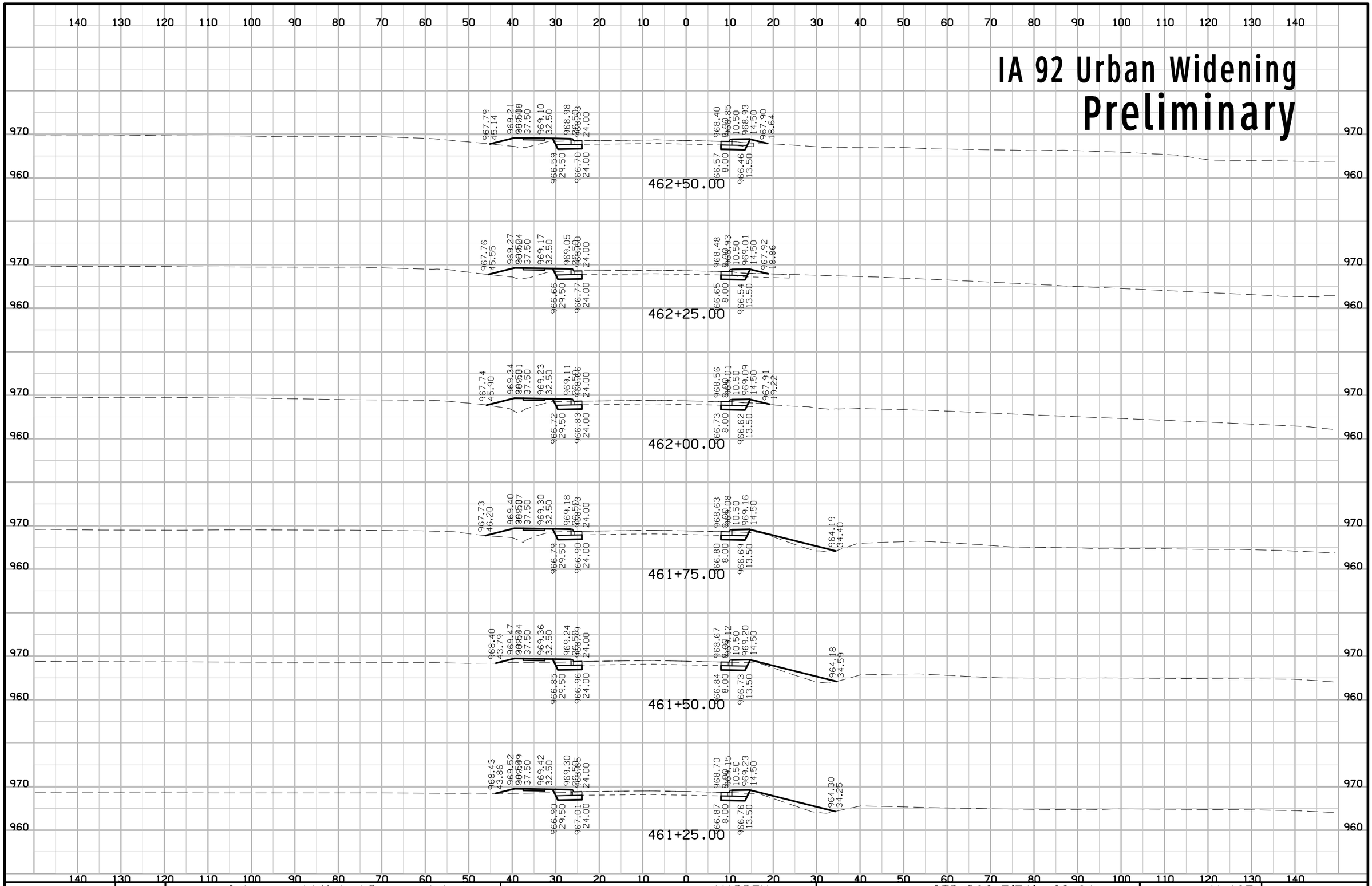
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.197

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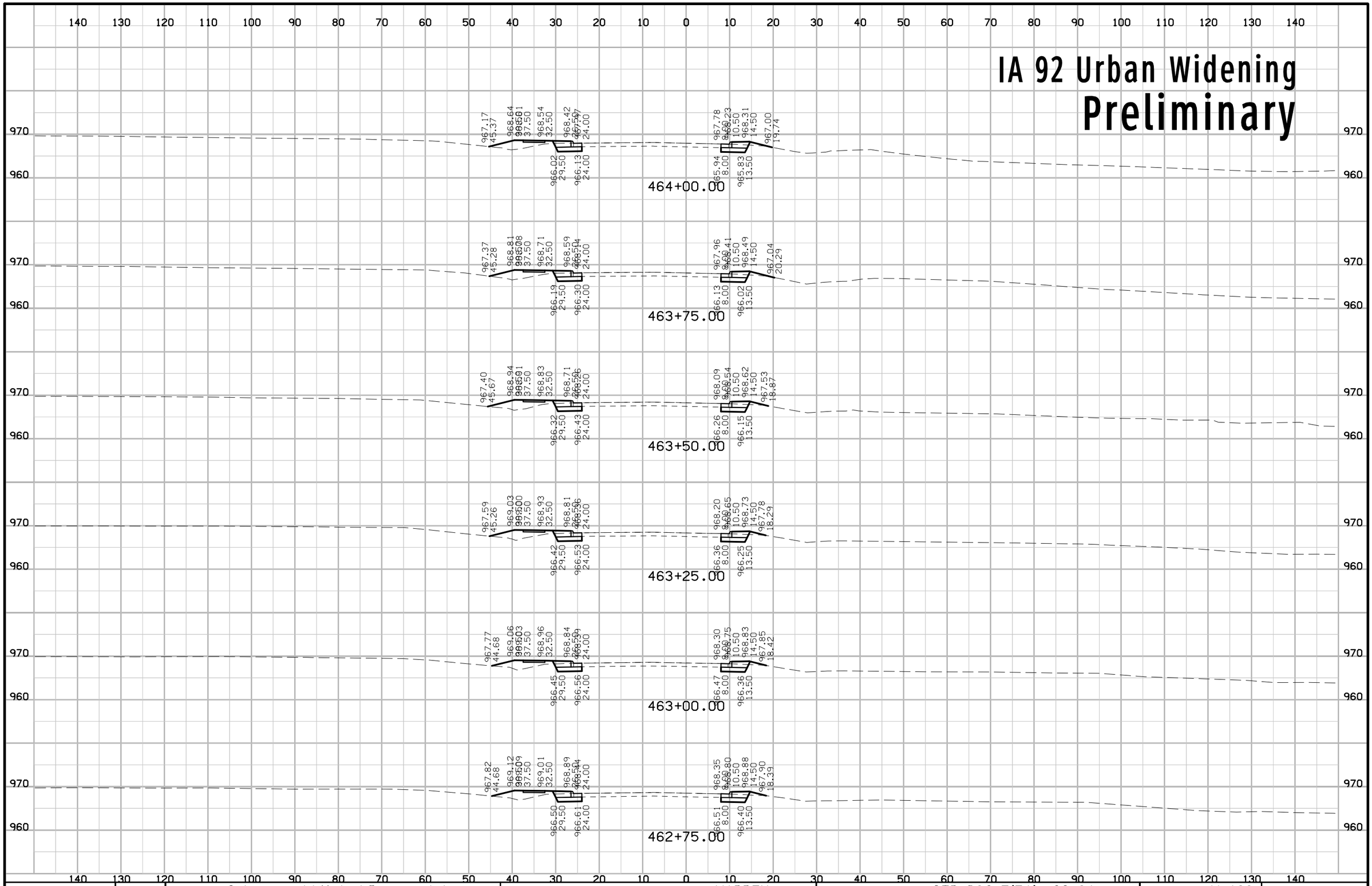
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.198

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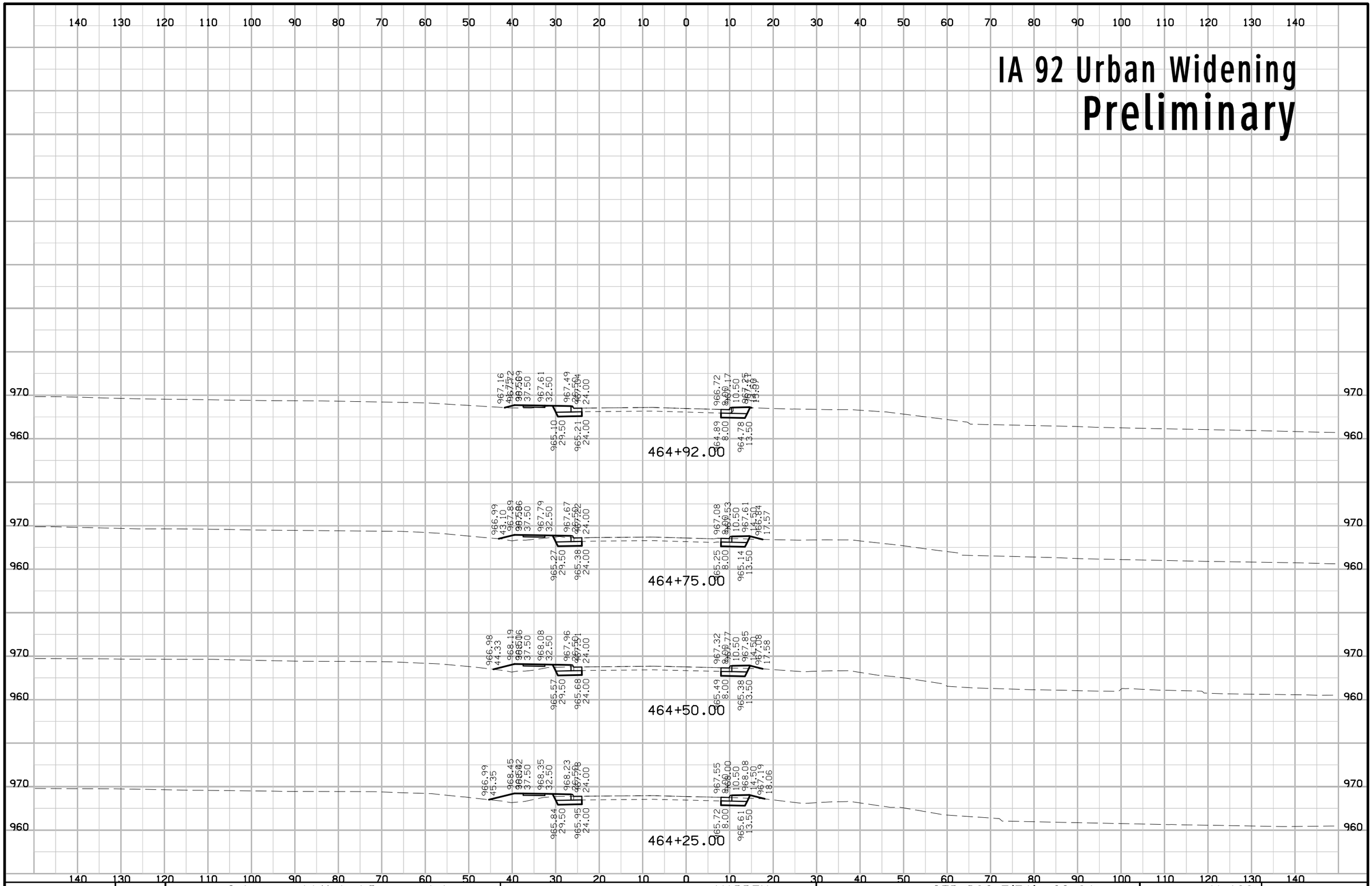
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.199

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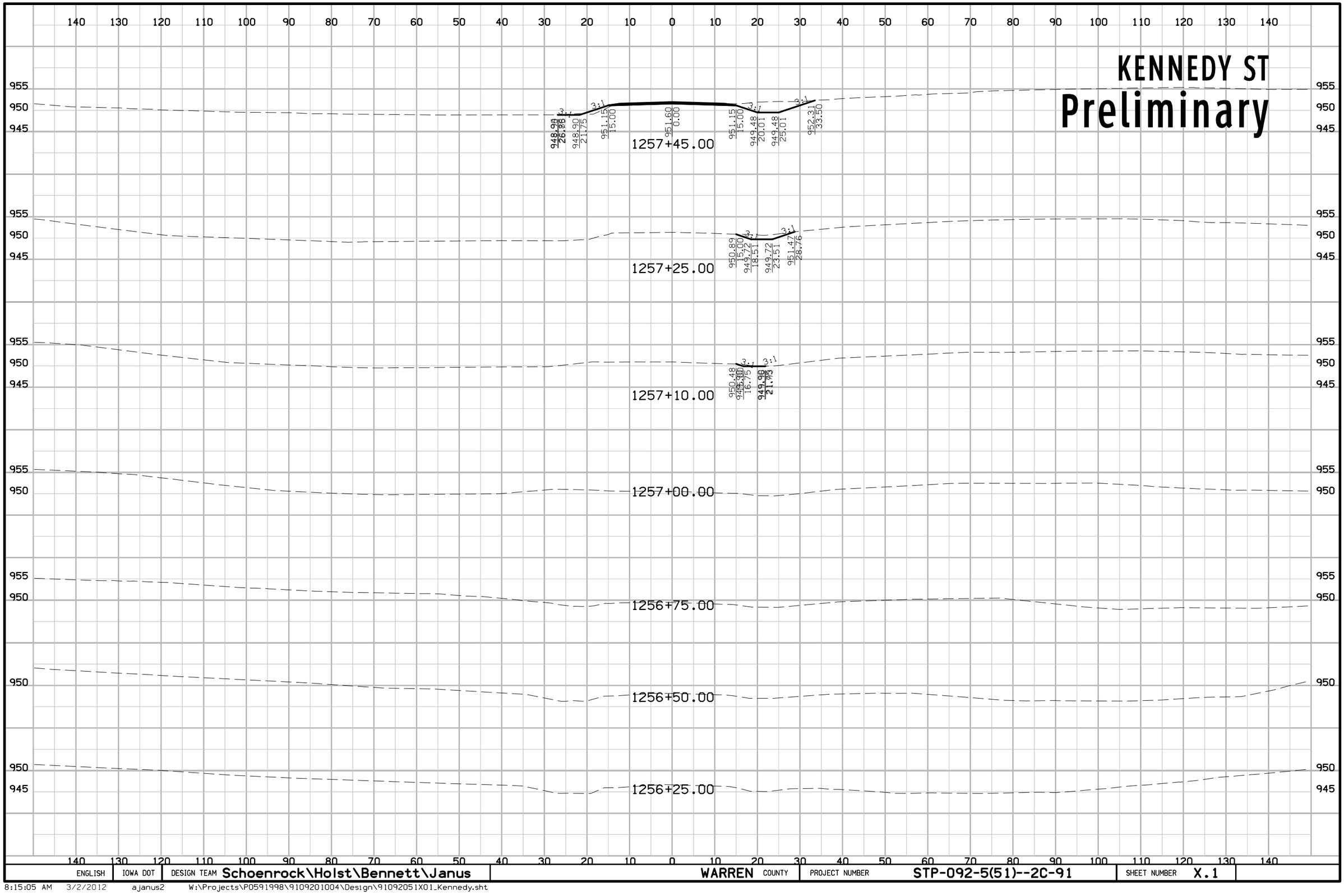
KENNEDY ST

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.1

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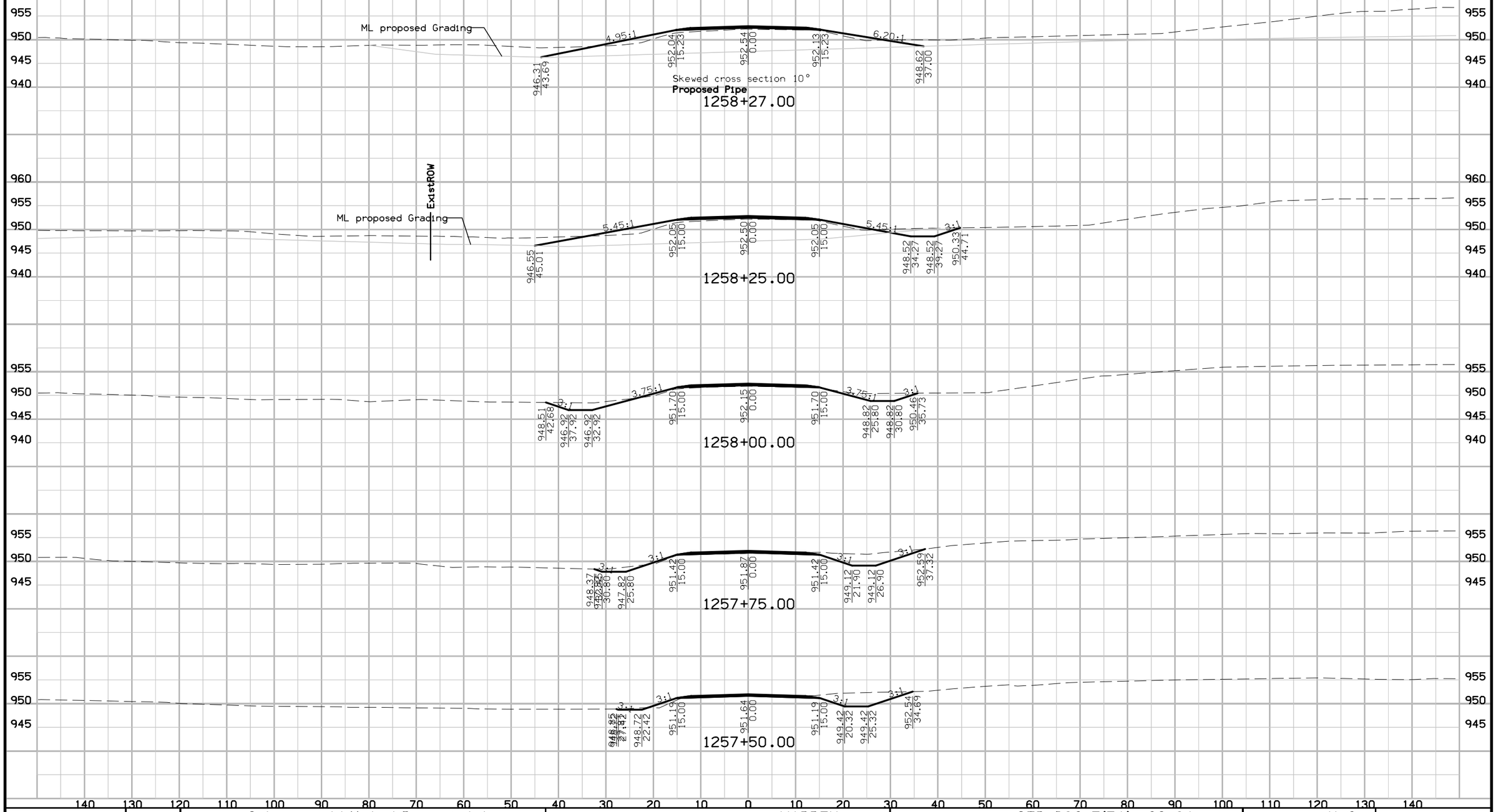
KENNEDY ST

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.2

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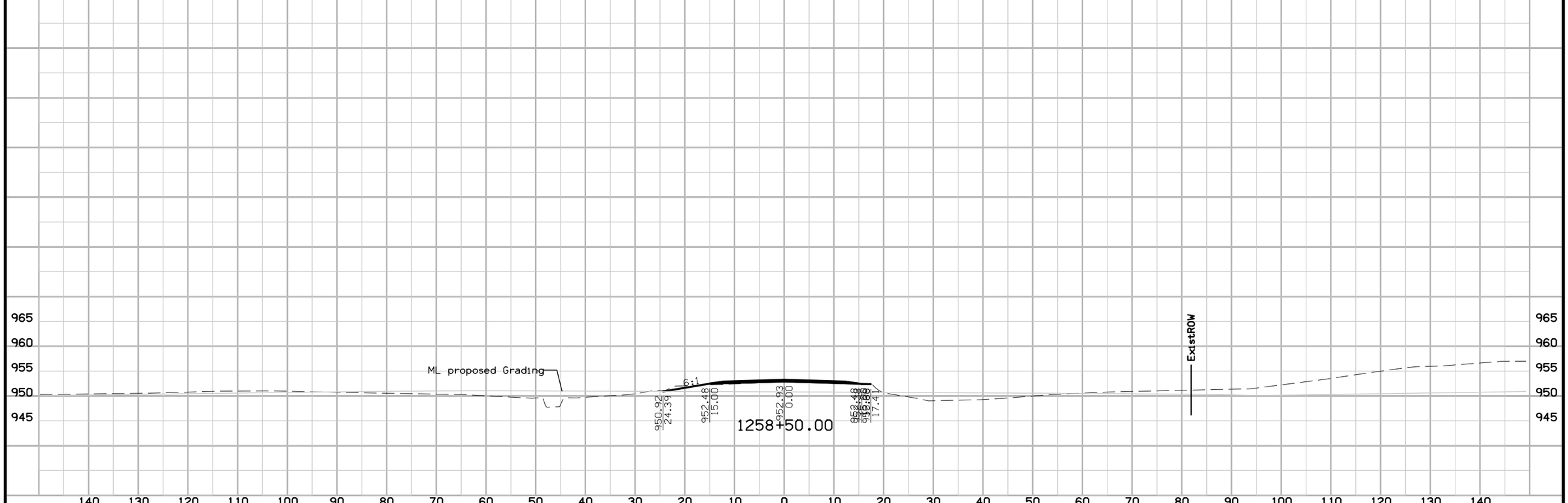
KENNEDY ST
Preliminary



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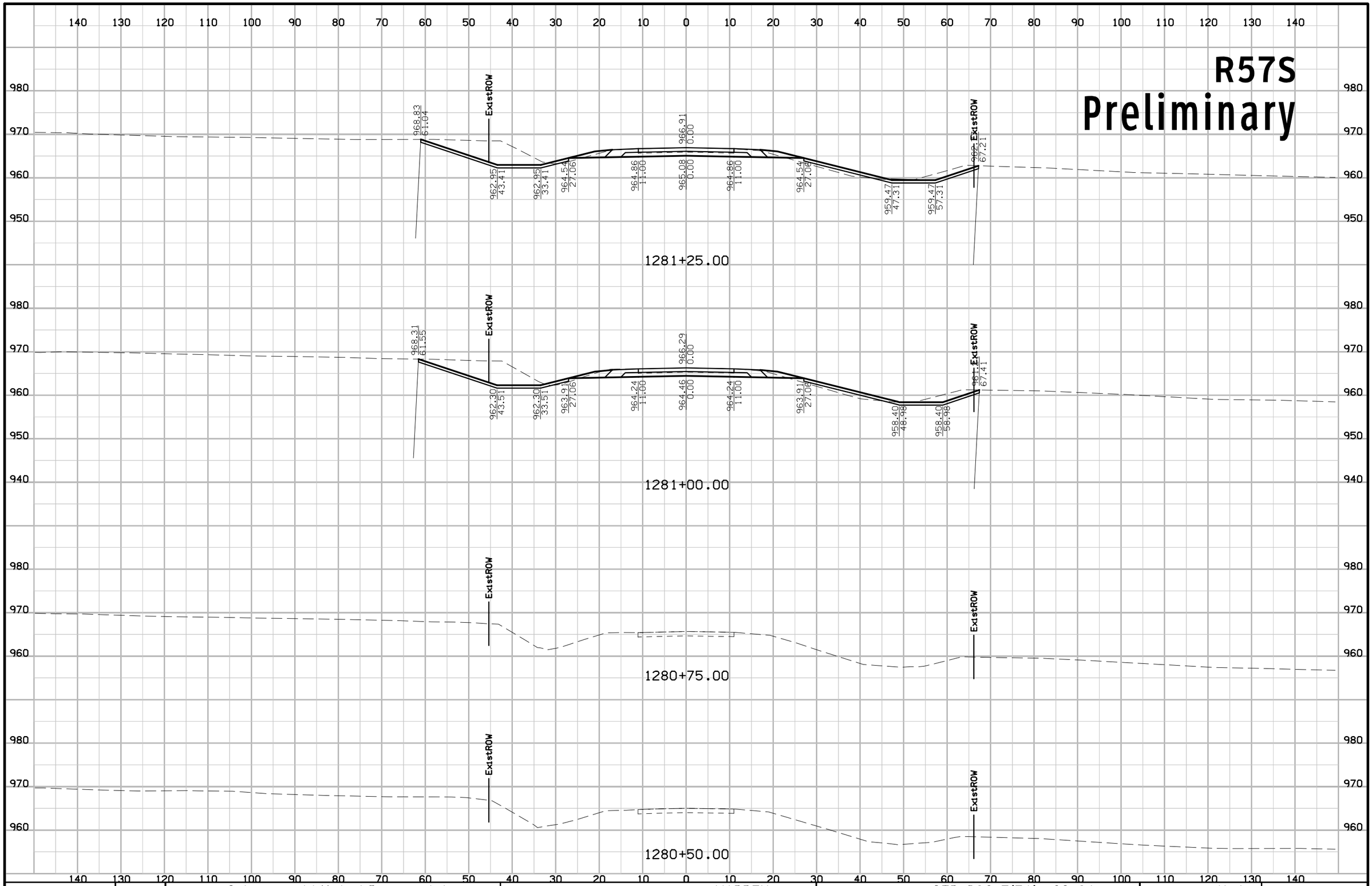
R57S
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.4

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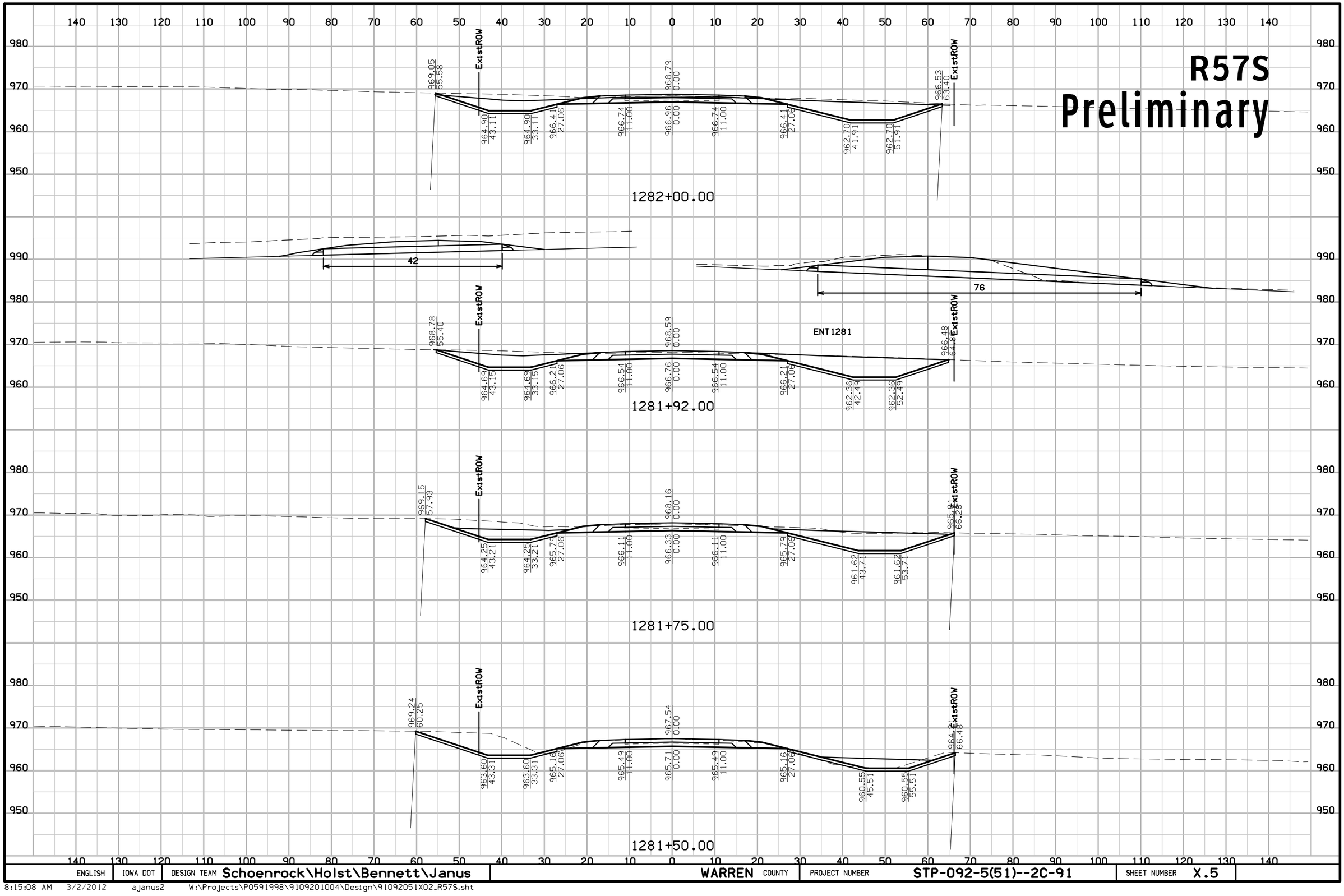
R57S
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.5

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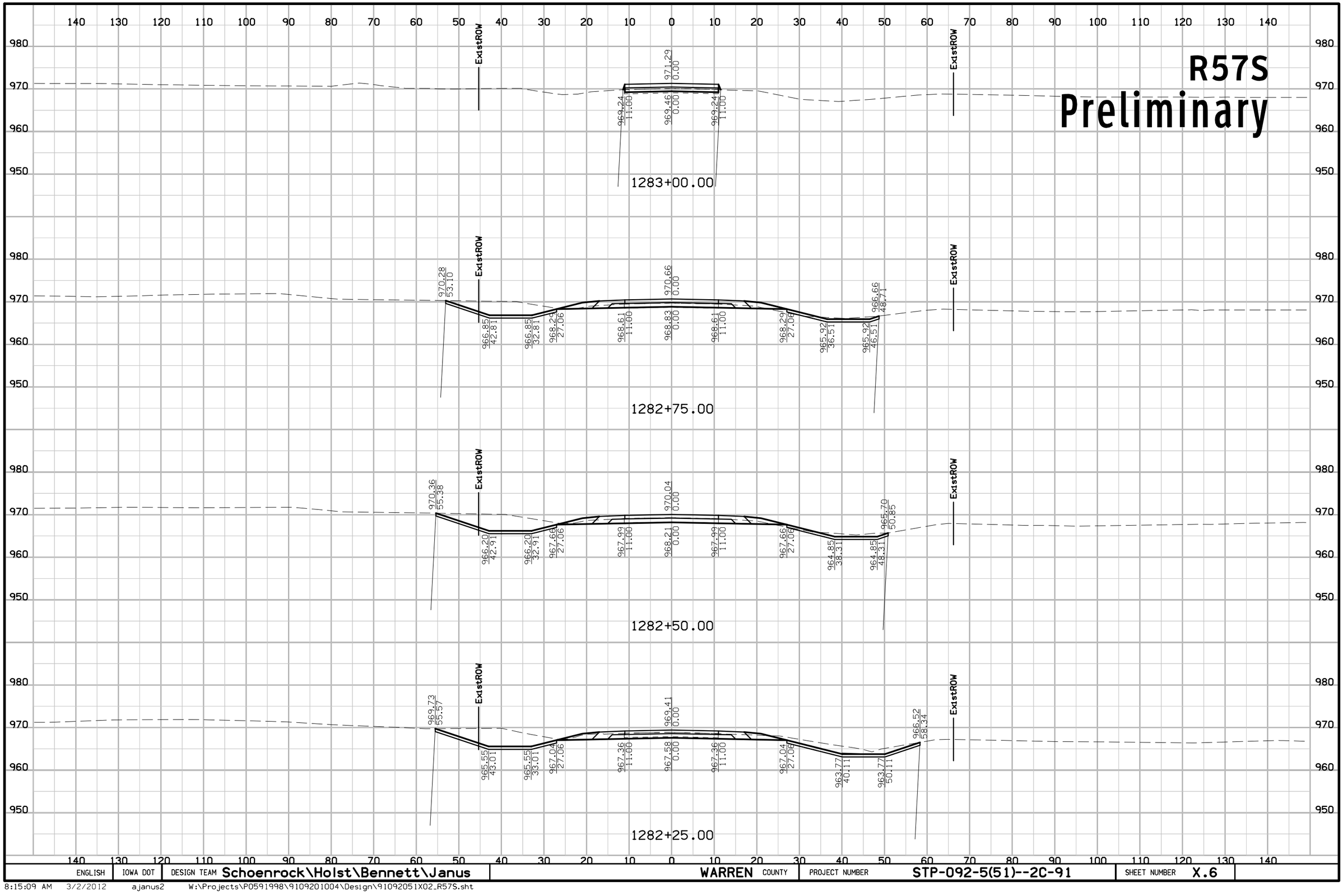
R57S
Preliminary



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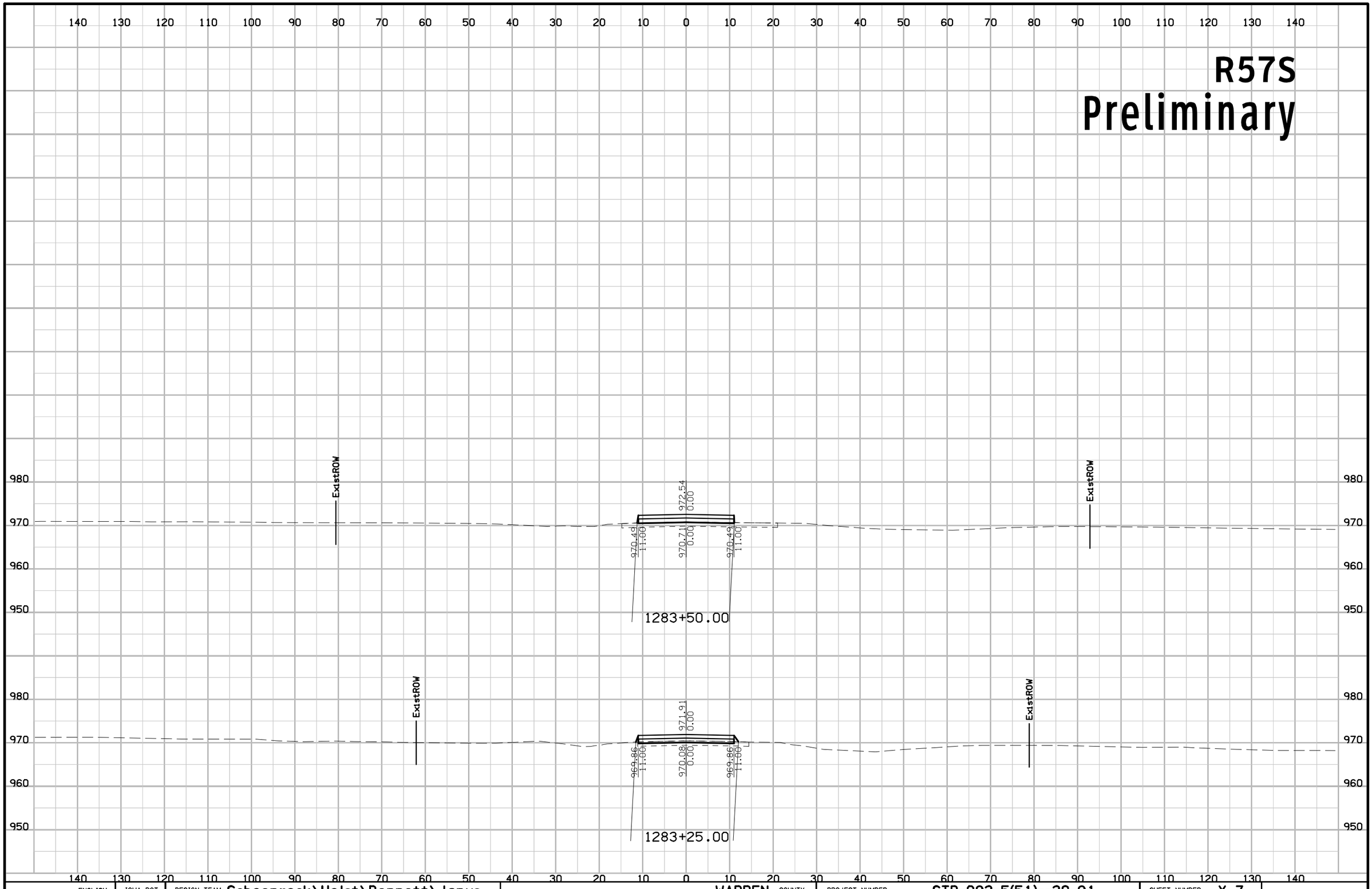
R57S
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.7

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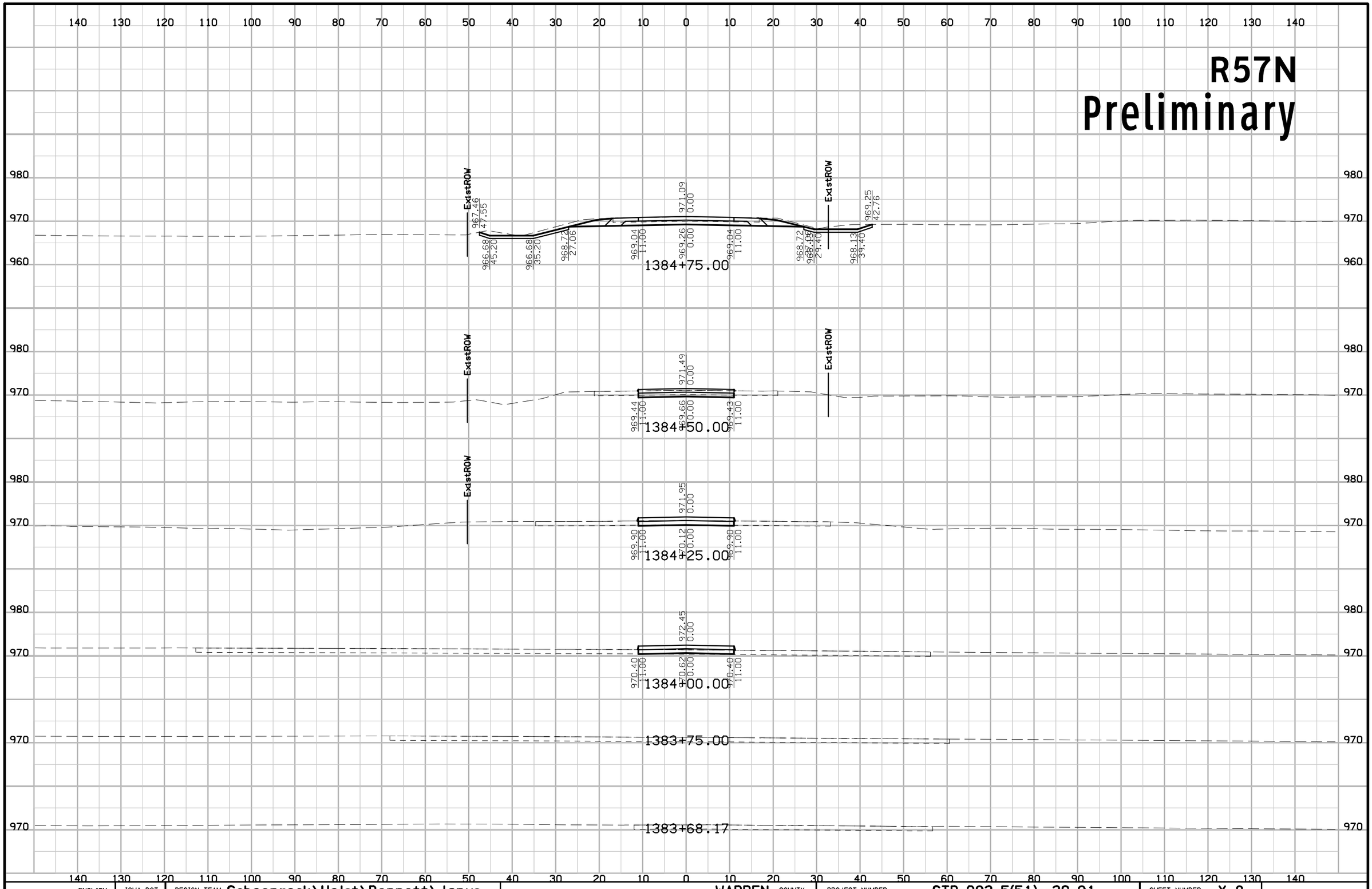
R57N
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.8

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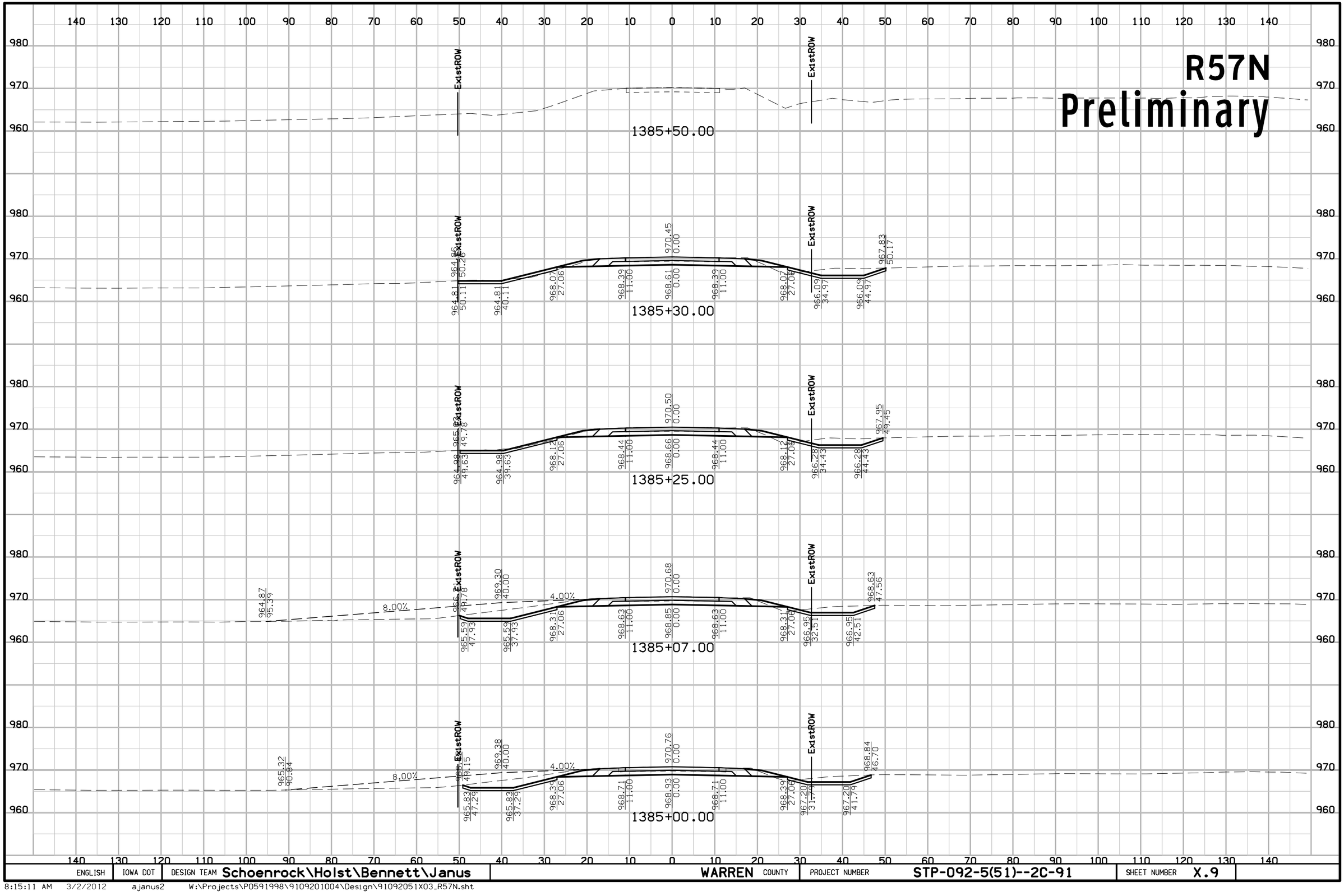
R57N
Preliminary



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R57N
Preliminary

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

970
960

ExistROW

1386+25.00

ExistROW

970
960

ExistROW

1386+00.00

ExistROW

980
970
960

ExistROW

1385+75.00

ExistROW

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 Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.10

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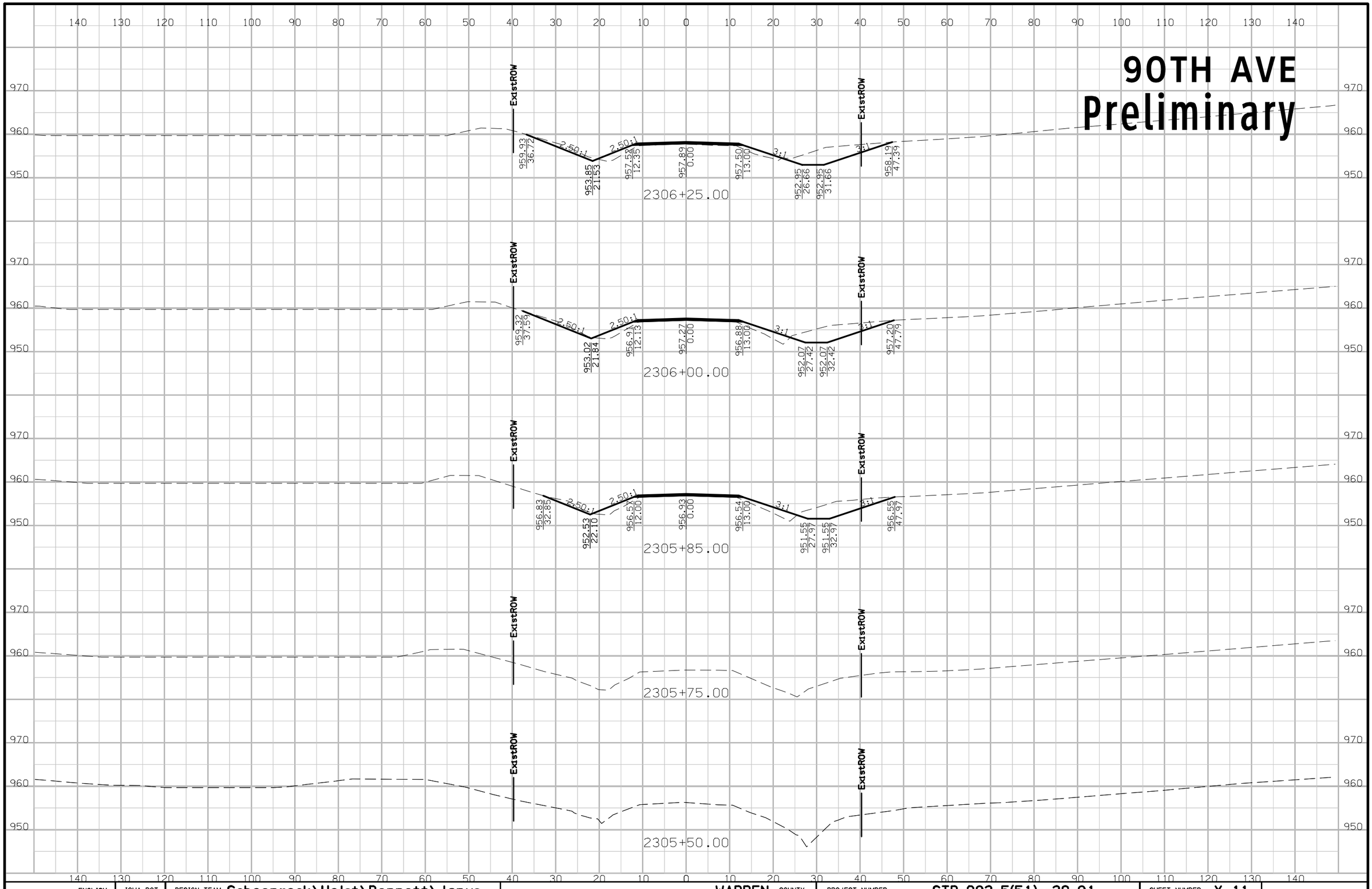
90TH AVE
Preliminary



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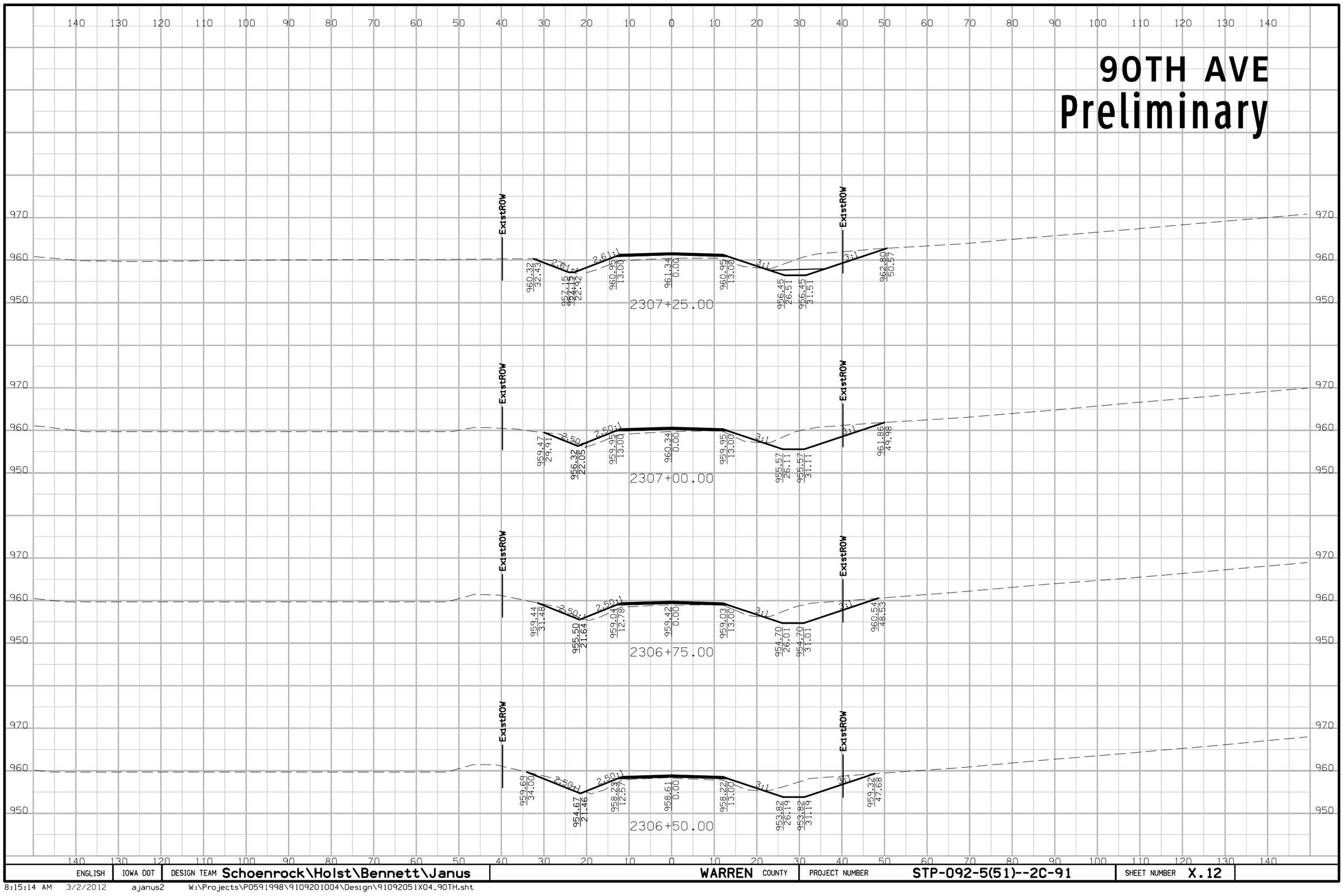
90TH AVE
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.12

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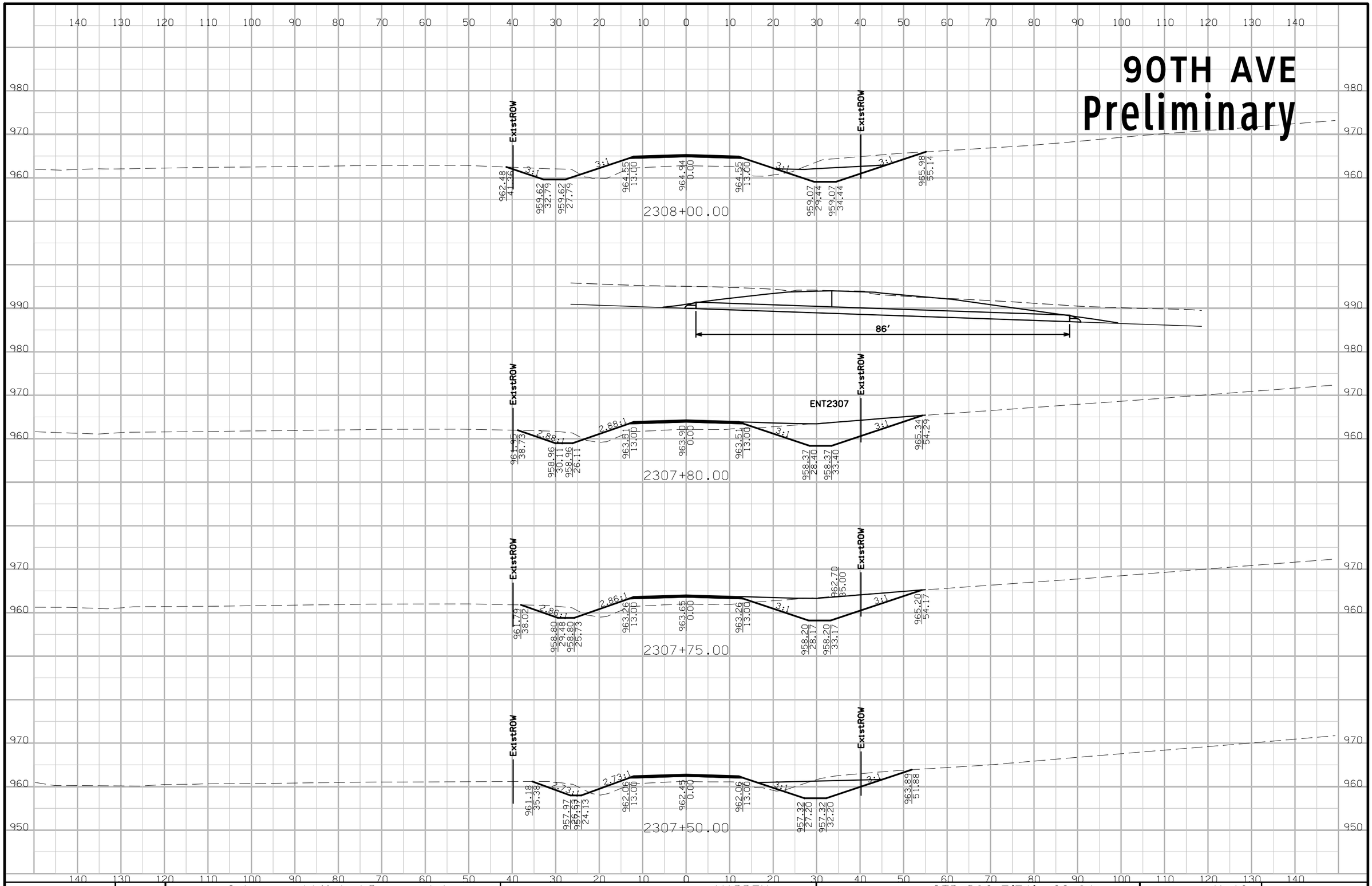
90TH AVE
Preliminary



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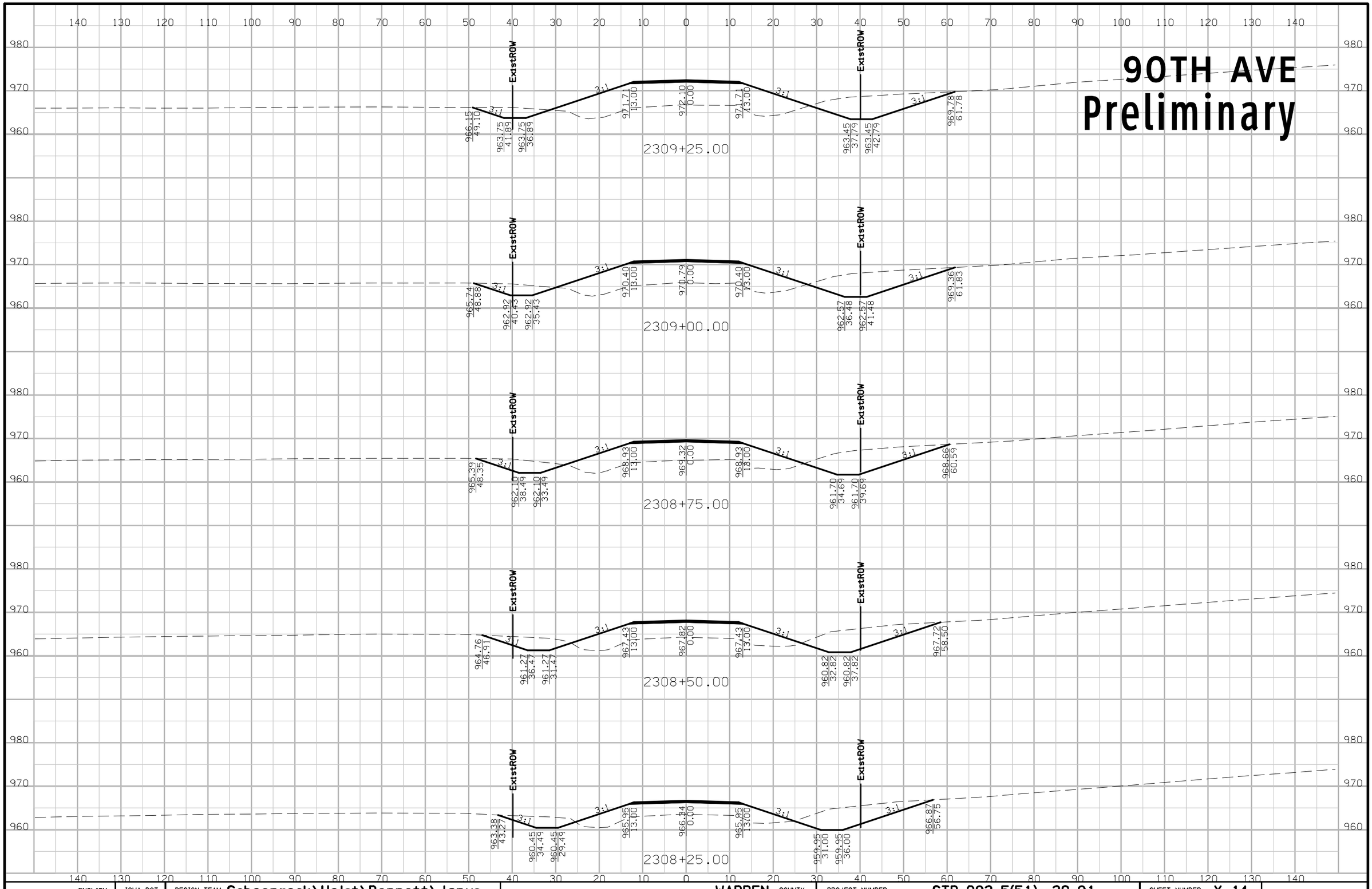
8:15:14 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051X04_90TH.sht

9OTH AVE
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.14

8:15:14 AM 3/2/2012 ajanus2 W:\Projects\P0591998\9109201004\Design\91092051X04_9OTH.sht

90TH AVE
Preliminary

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980 970

ExistROW

974.43 12.00 | 974.68 0.00 | 974.38 12.00
2310+88.00

974.71 12.00 | 974.84 0.00 | 974.62 12.00
2310+75.00

2310+50.00

970

2310+25.00

980 970

ExistROW ExistROW

974.66 12.00 | 975.02 0.00 | 974.66 12.00
2310+00.00

980 970

ExistROW ExistROW

973.86 12.00 | 974.22 0.00 | 973.86 12.00
2309+75.00

980 970 960

ExistROW ExistROW

3:1 3:1 3:1 3:1

966.51 48.65 | 964.57 42.84 | 964.57 37.84 | 972.85 13.00 | 973.24 0.00 | 972.85 13.00 | 964.32 38.59 | 964.32 43.59 | 970.44 61.94
2309+50.00

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 Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.15

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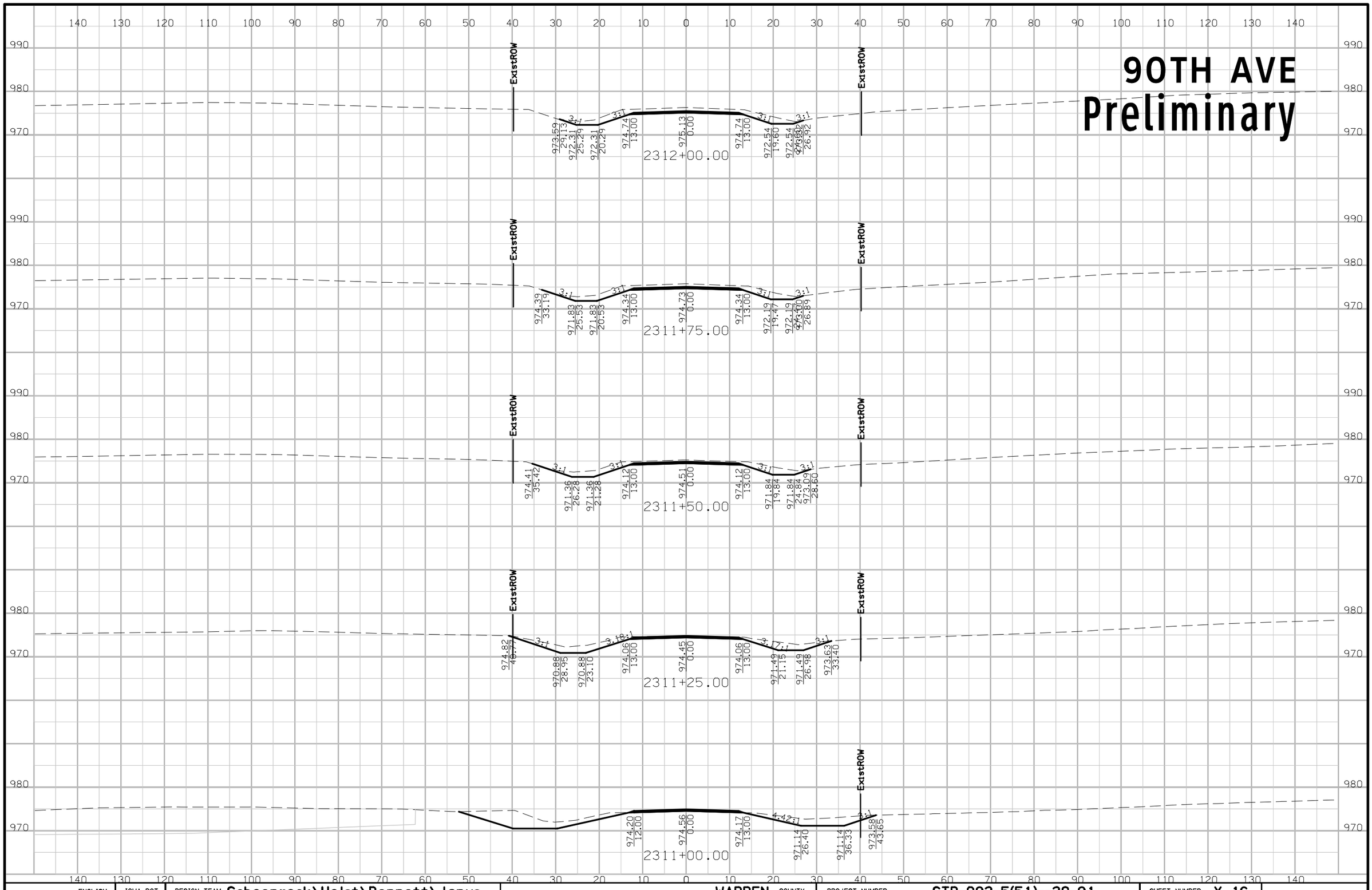
90TH AVE
Preliminary



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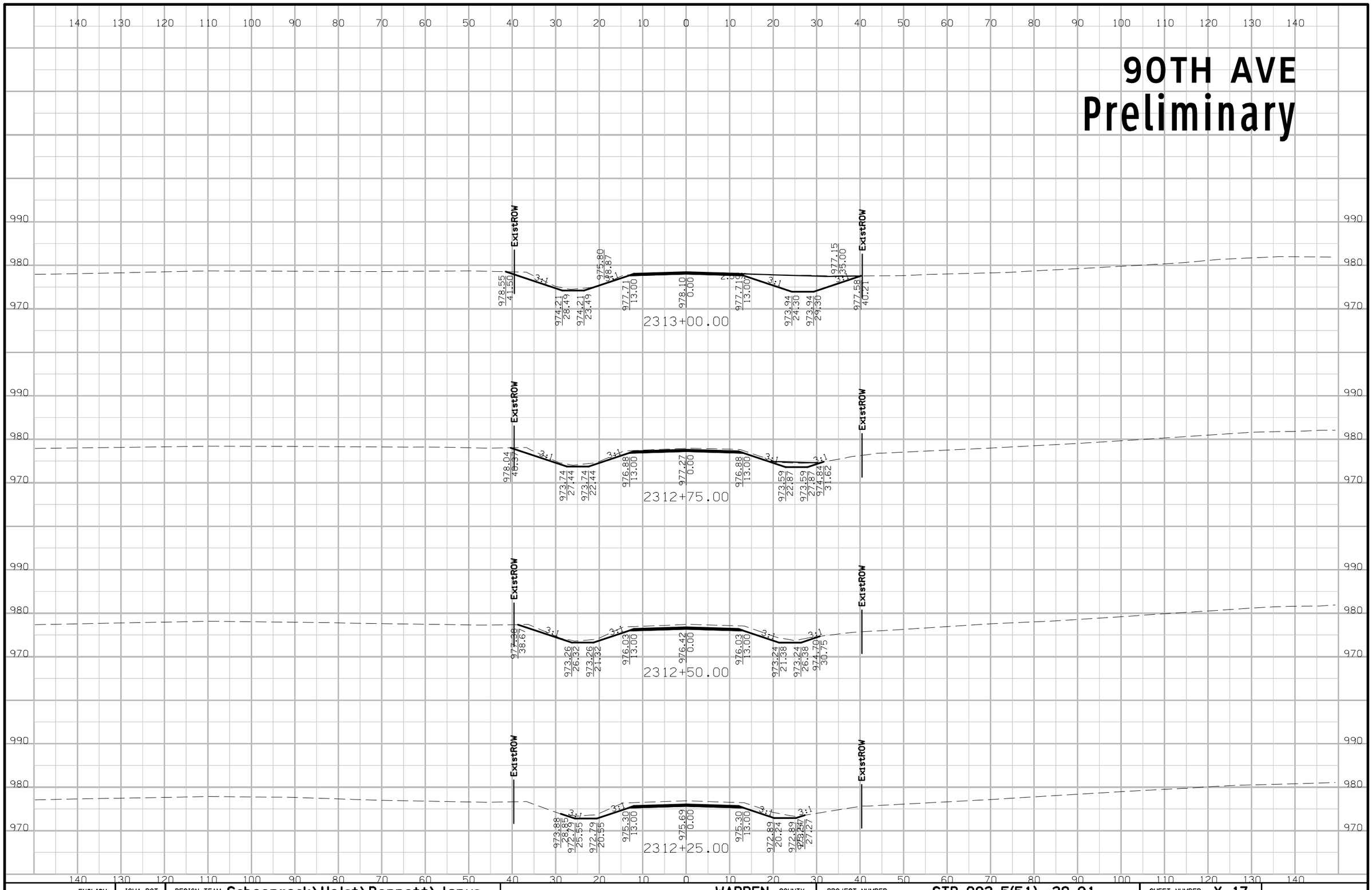
90TH AVE
Preliminary



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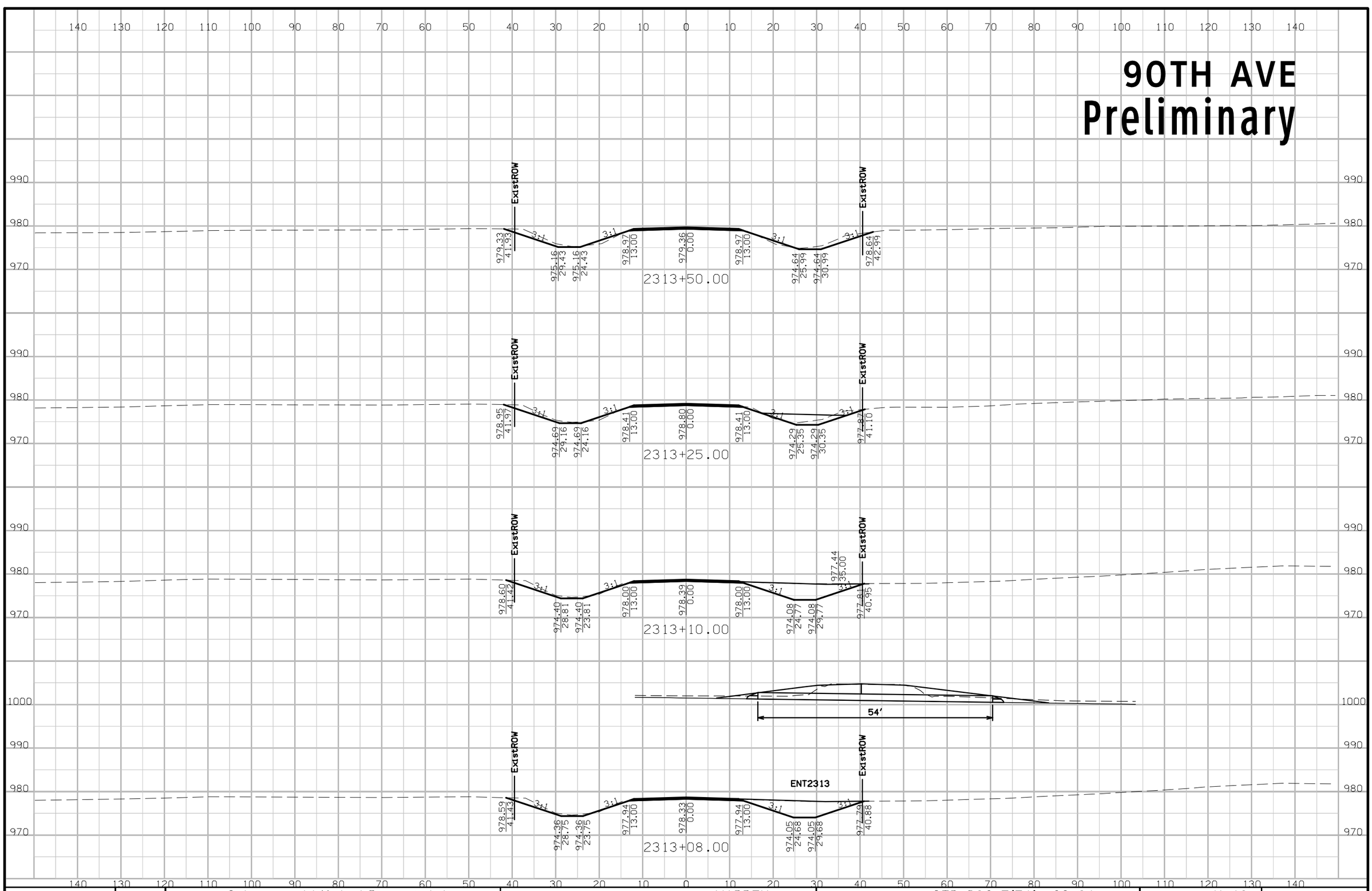
90TH AVE
Preliminary



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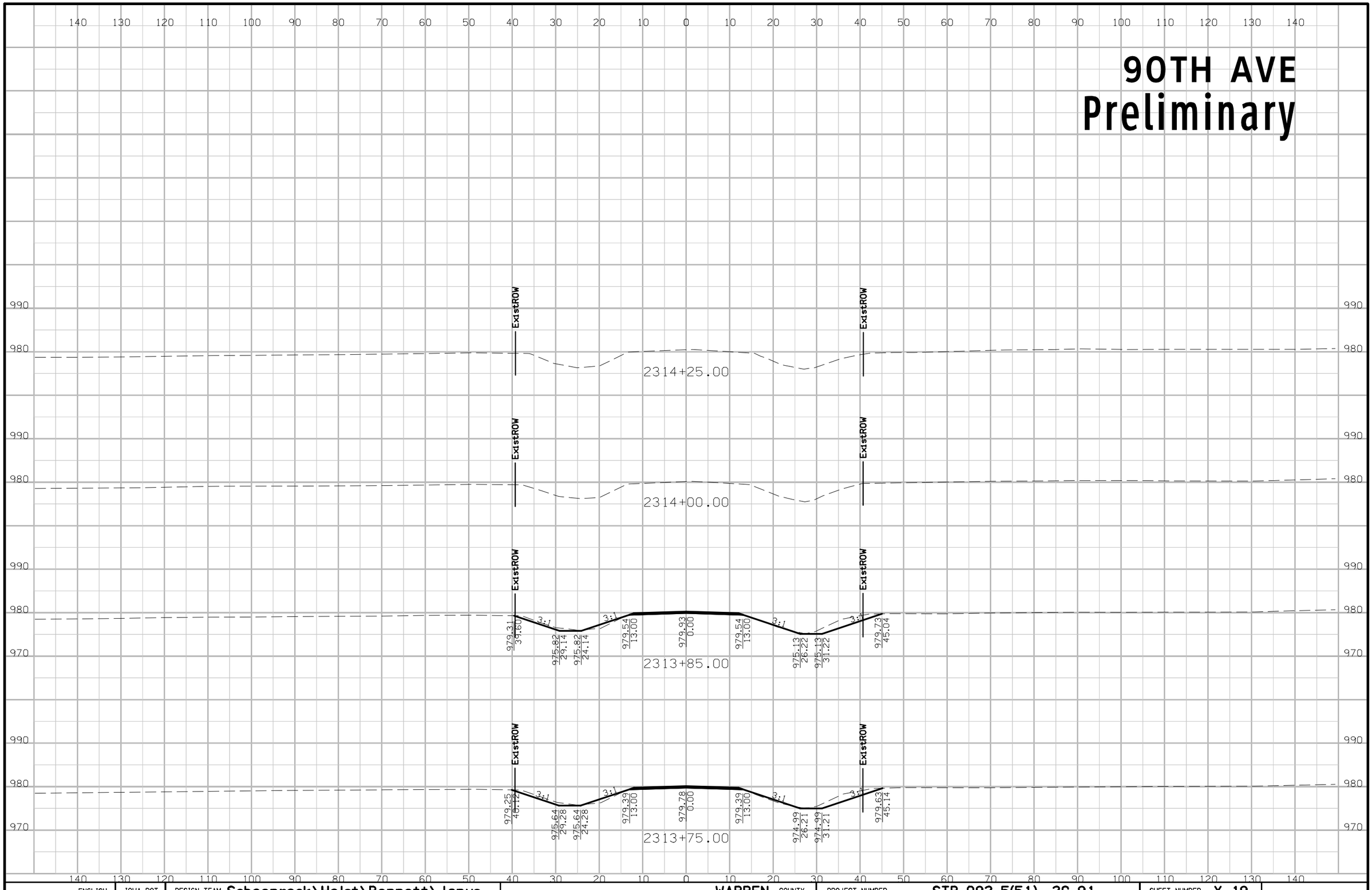
90TH AVE
Preliminary



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R63S

Preliminary

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970

968.64 64.44 | 966.21 57.15 | 966.21 47.15 | 970.57 21.00 | 970.97 17.00 | 971.21 11.00 | 971.43 0.00 | 971.21 11.00 | 970.97 17.00 | 970.57 21.00 | 964.94 54.75

969.30 15.02 | 969.60 0.00 | 969.29 15.02

3390+25.00

970

968.42 65.26 | 965.71 57.15 | 965.71 47.15 | 970.07 21.00 | 970.47 17.00 | 970.71 11.00 | 970.93 0.00 | 970.71 11.00 | 970.47 17.00 | 970.07 21.00 | 964.15 56.53

968.80 15.02 | 969.10 0.00 | 968.80 15.02

3390+00.00

970

968.87 68.03 | 965.25 57.15 | 965.25 47.15 | 969.61 21.00 | 970.01 17.00 | 970.25 11.00 | 970.47 0.00 | 970.25 11.00 | 970.01 17.00 | 969.61 21.00 | 963.47 57.79

968.33 15.02 | 968.63 0.00 | 968.33 15.02

3389+75.00

970

969.47 71.15 | 964.81 57.15 | 964.81 47.15 | 969.17 21.00 | 969.57 17.00 | 969.81 11.00 | 970.03 0.00 | 969.81 11.00 | 969.57 17.00 | 969.17 21.00 | 963.30 56.18

967.90 15.02 | 968.20 0.00 | 967.90 15.02

3389+50.00

970

960

969.66 72.94 | 964.40 57.15 | 964.40 47.15 | 968.76 21.00 | 969.16 17.00 | 969.40 11.00 | 969.62 0.00 | 969.40 11.00 | 969.16 17.00 | 968.76 21.00 | 962.83 56.57

967.49 15.02 | 967.79 0.00 | 967.49 15.02

3389+25.00

970

960

969.68 74.18 | 964.01 57.15 | 964.01 47.15 | 968.37 21.00 | 968.77 17.00 | 969.01 11.00 | 969.23 0.00 | 969.01 11.00 | 968.77 17.00 | 968.37 21.00 | 962.31 57.34

967.09 15.02 | 967.40 0.00 | 967.09 15.02

3389+00.00

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 Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.20

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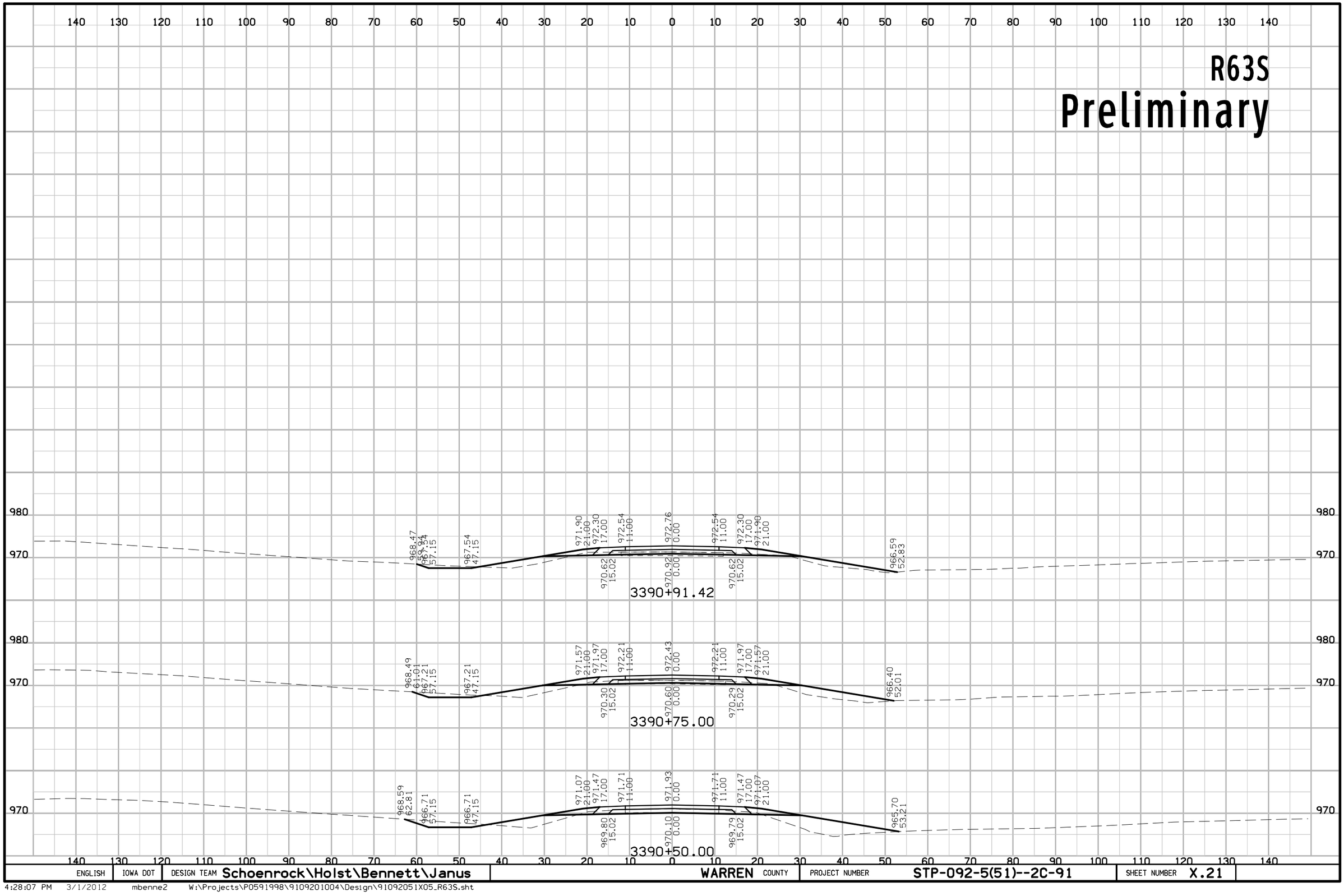
R63S
Preliminary



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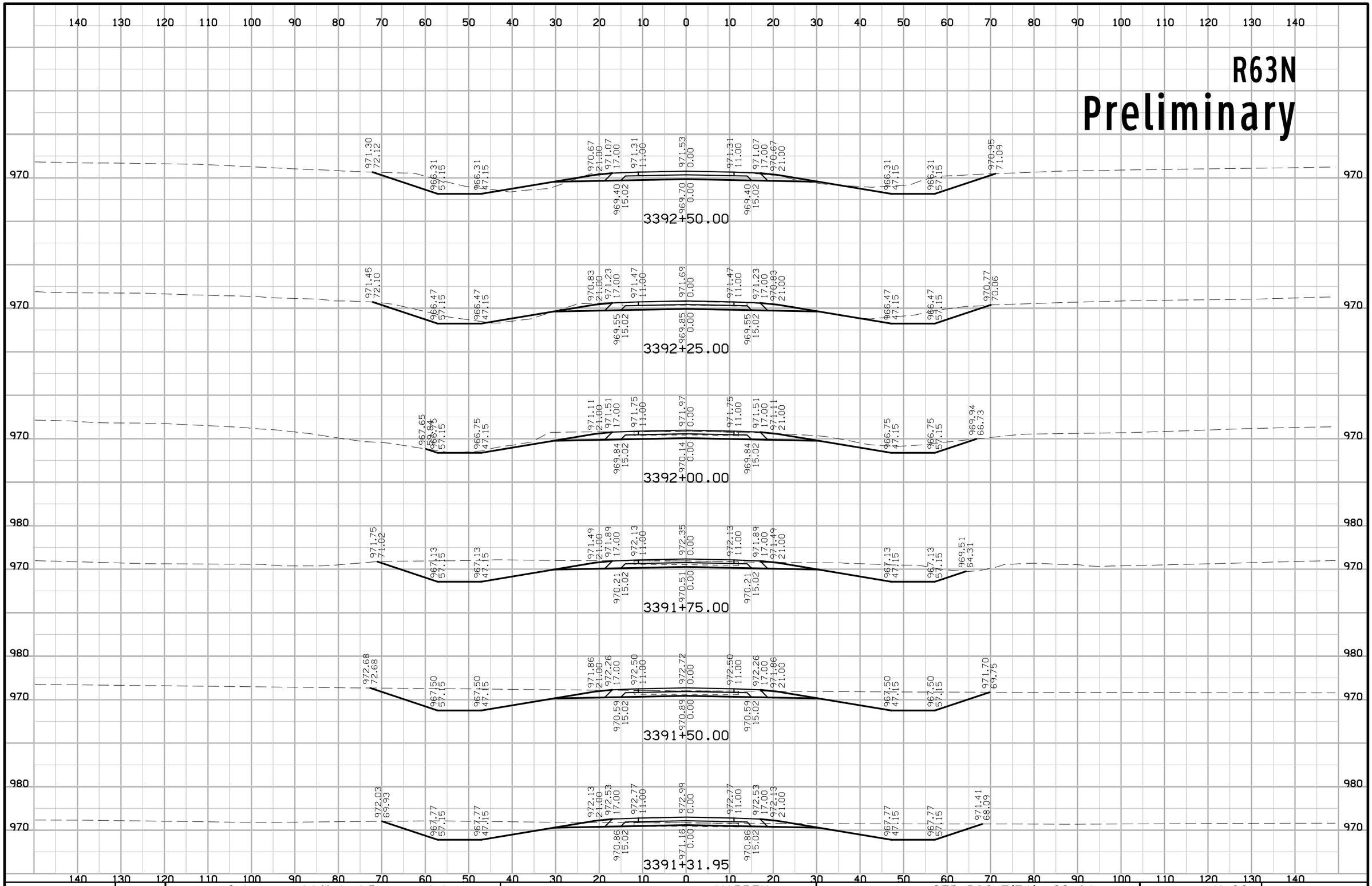
R63N
Preliminary



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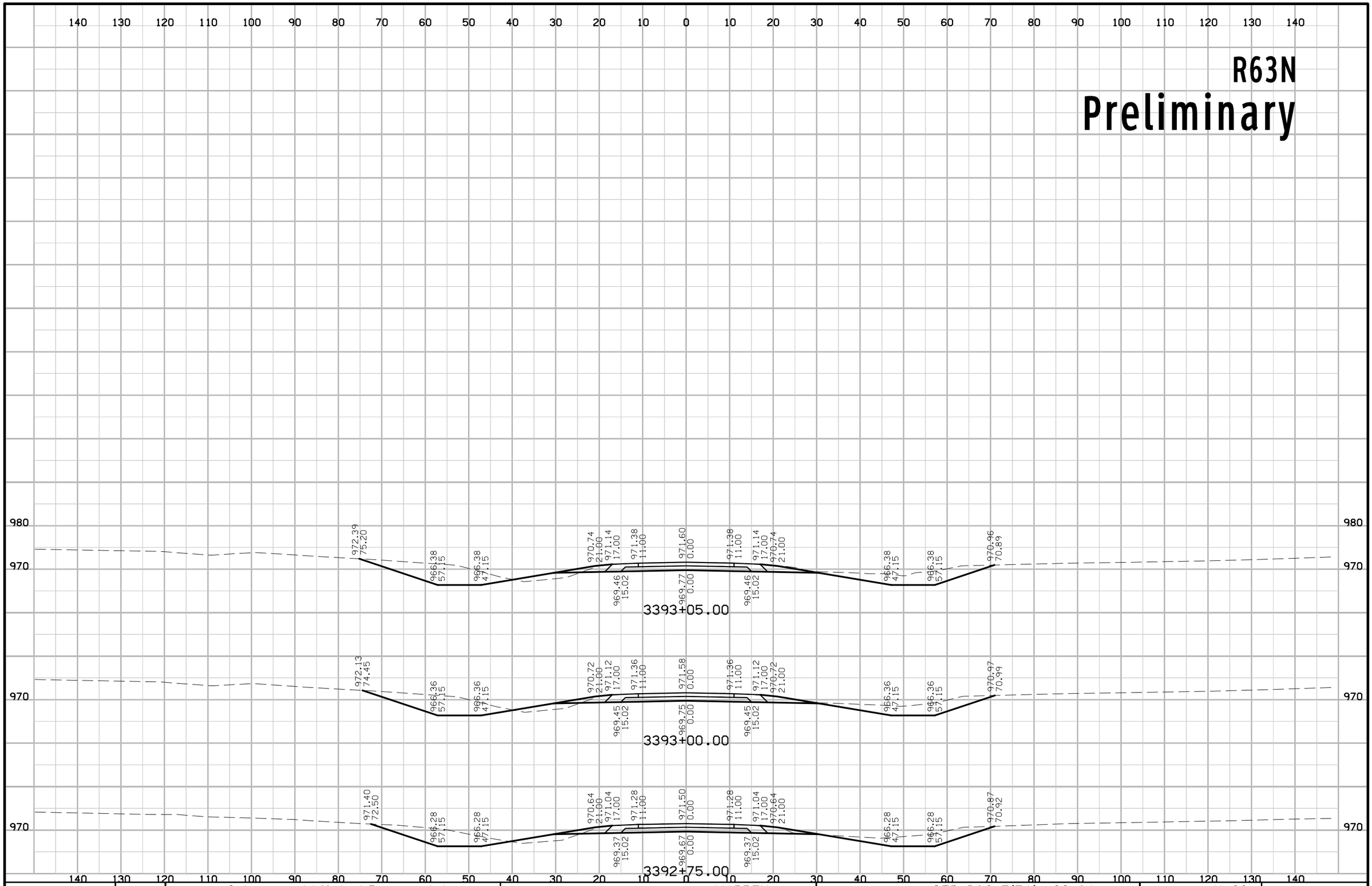
R63N
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.23

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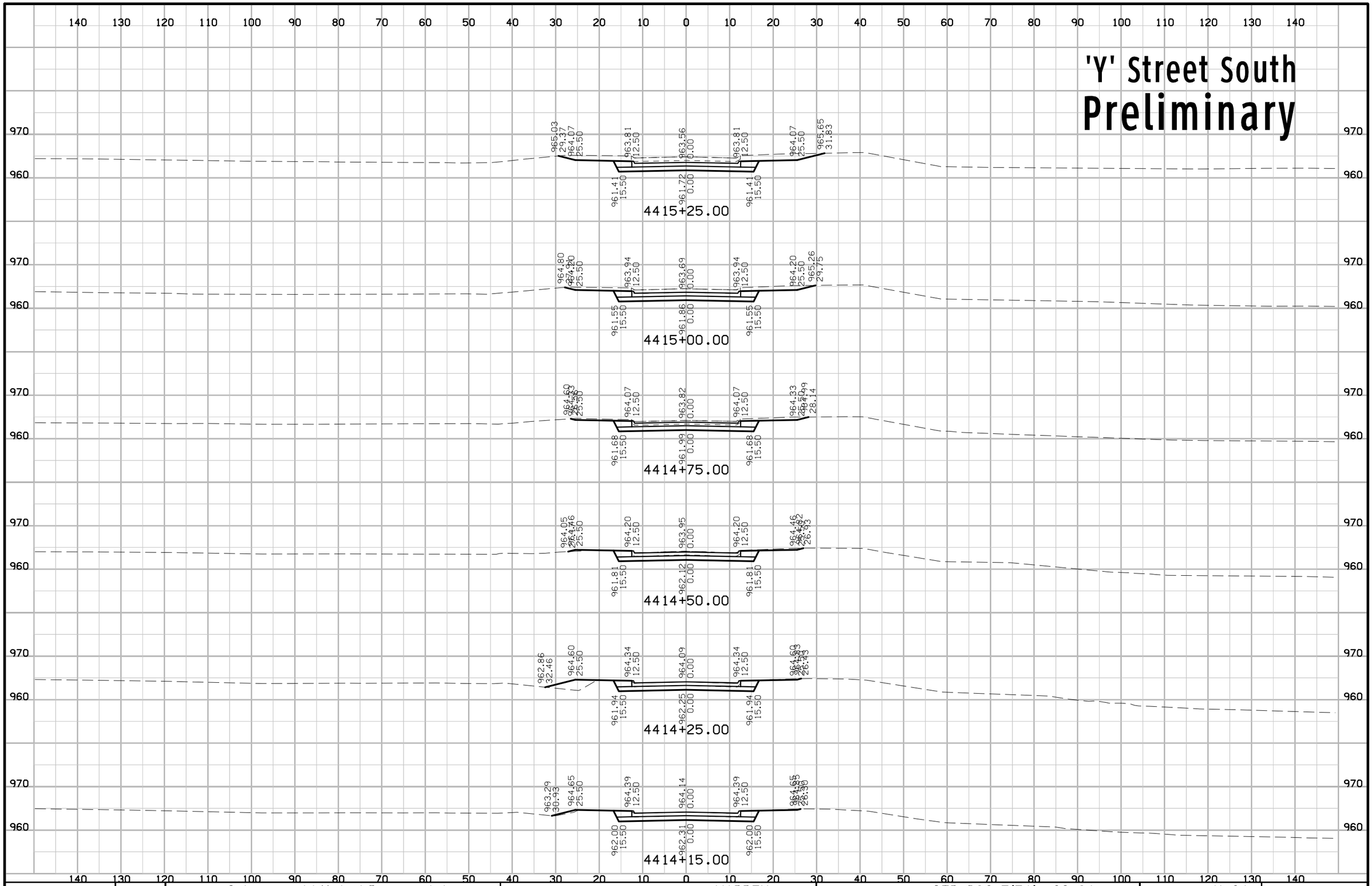
'Y' Street South
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.24

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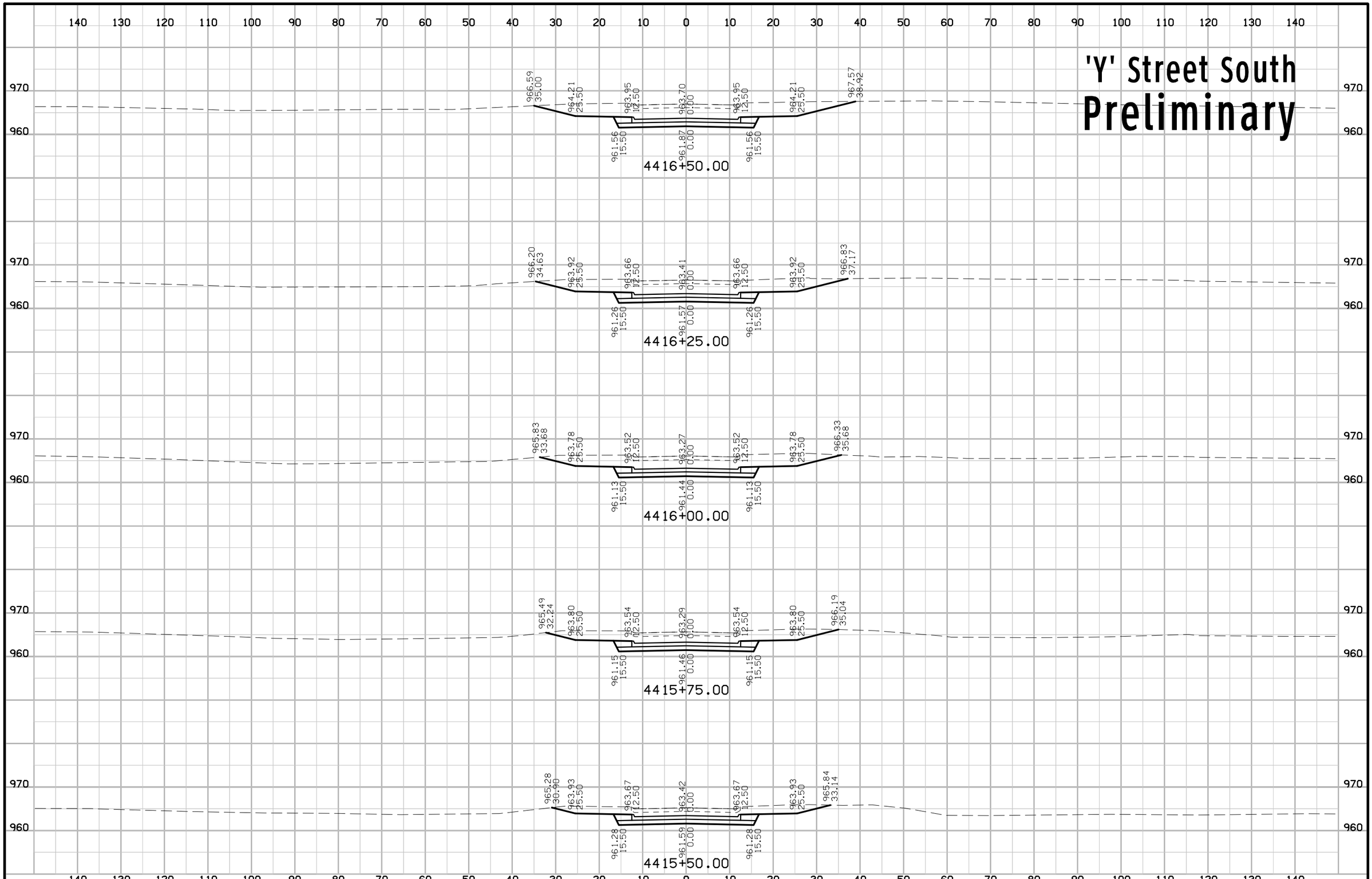
'Y' Street South
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.25

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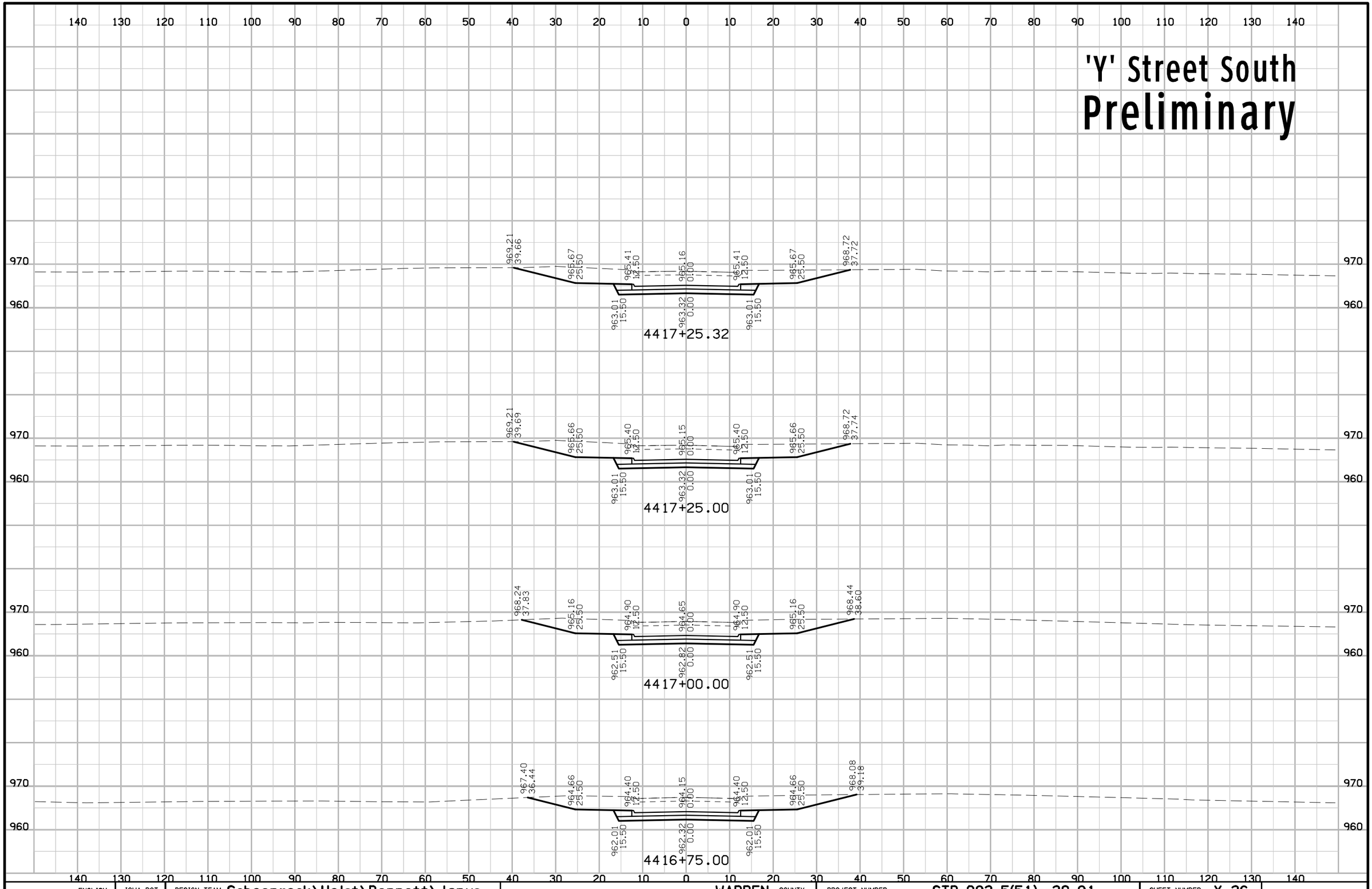
'Y' Street South
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.26

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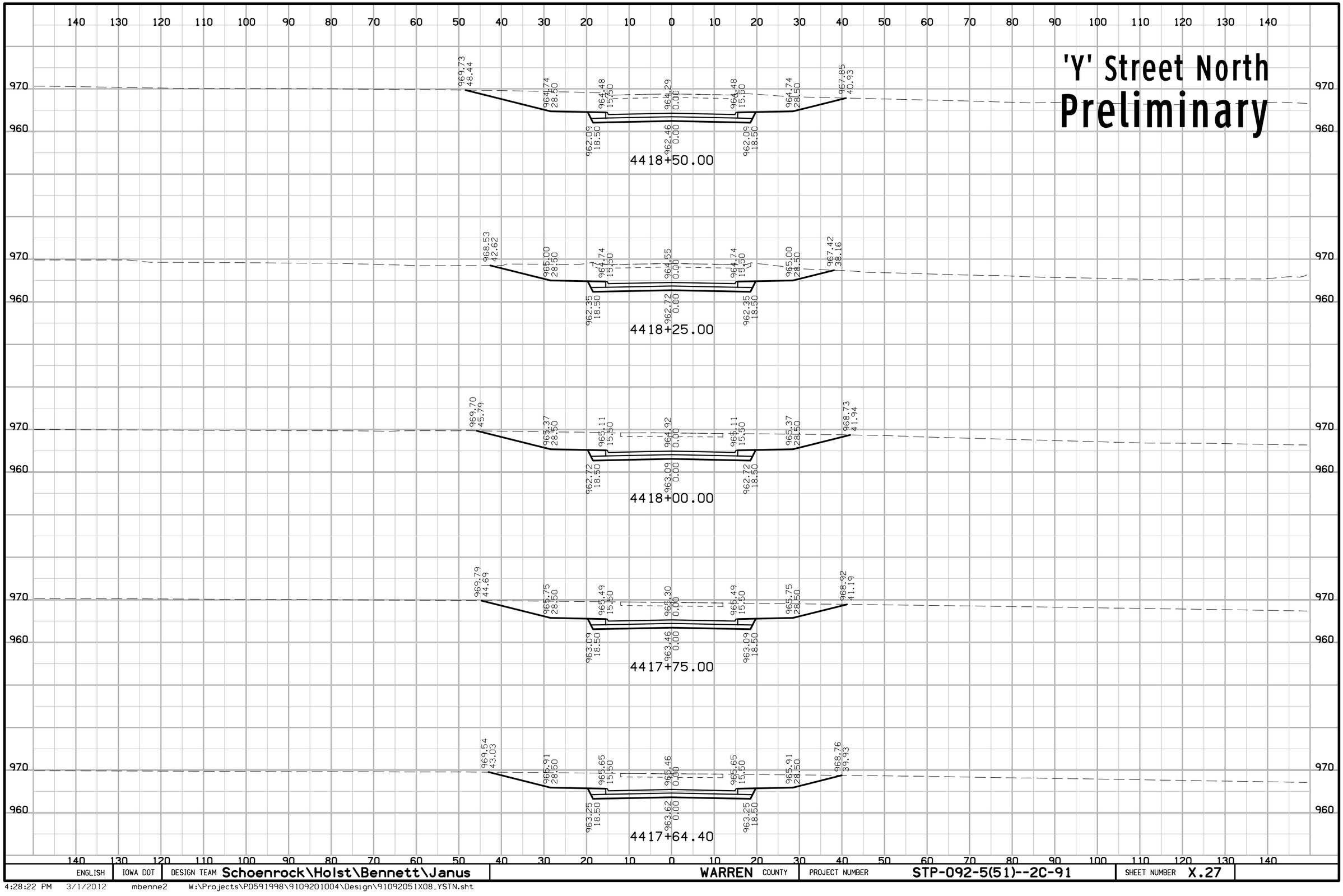
'Y' Street North
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.27

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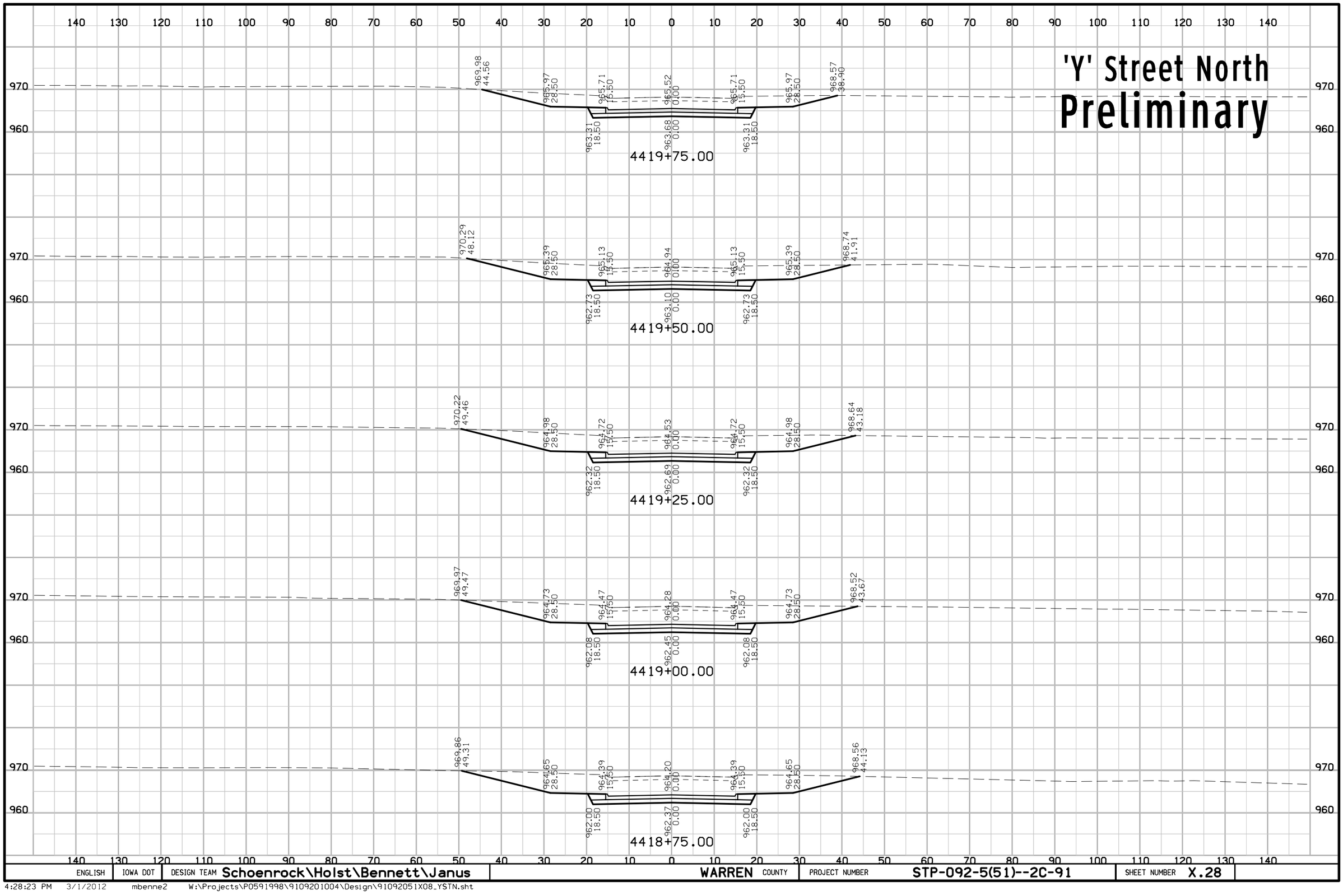
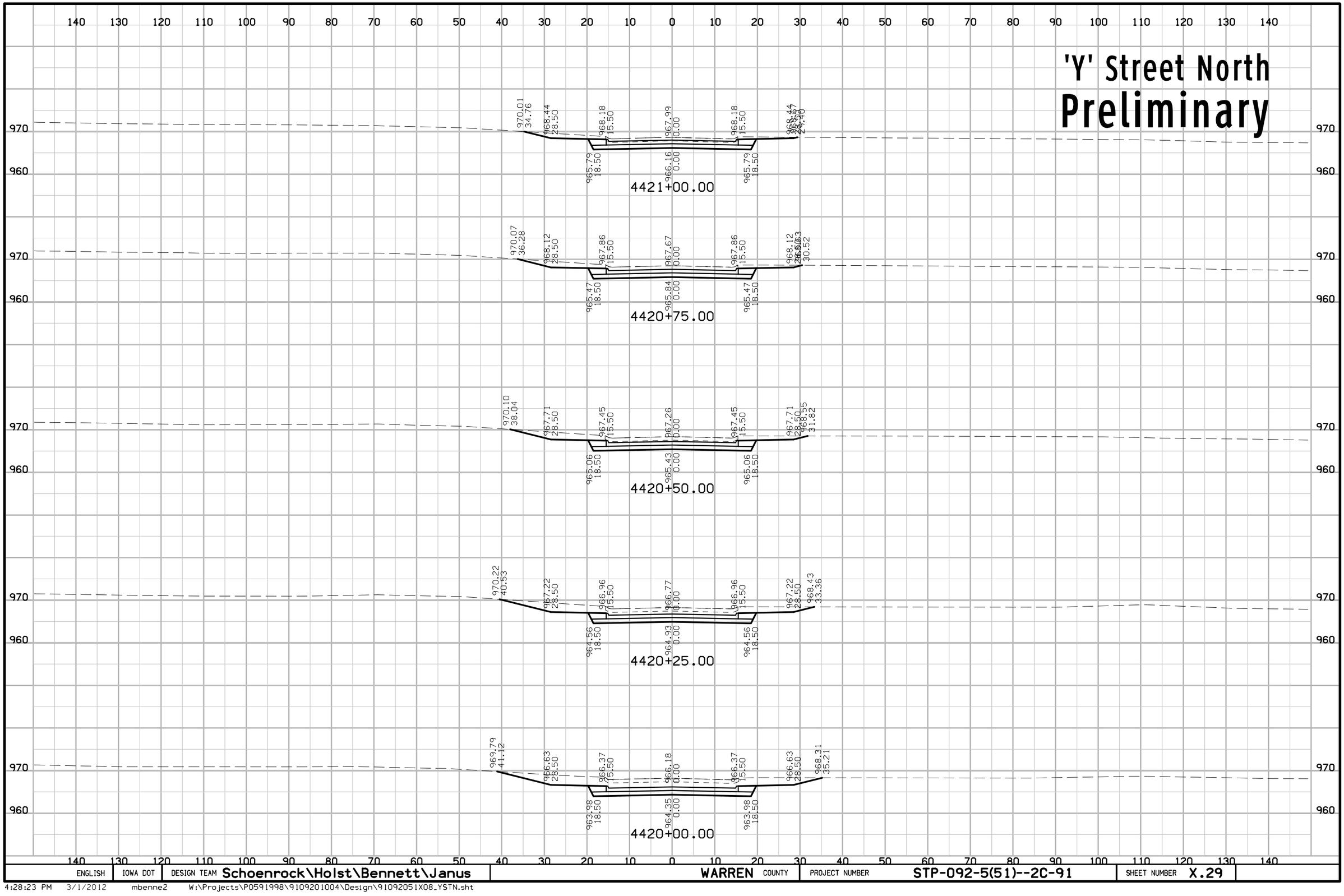
'Y' Street North
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.28

4:28:23 PM 3/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051X08_YSTN.sht

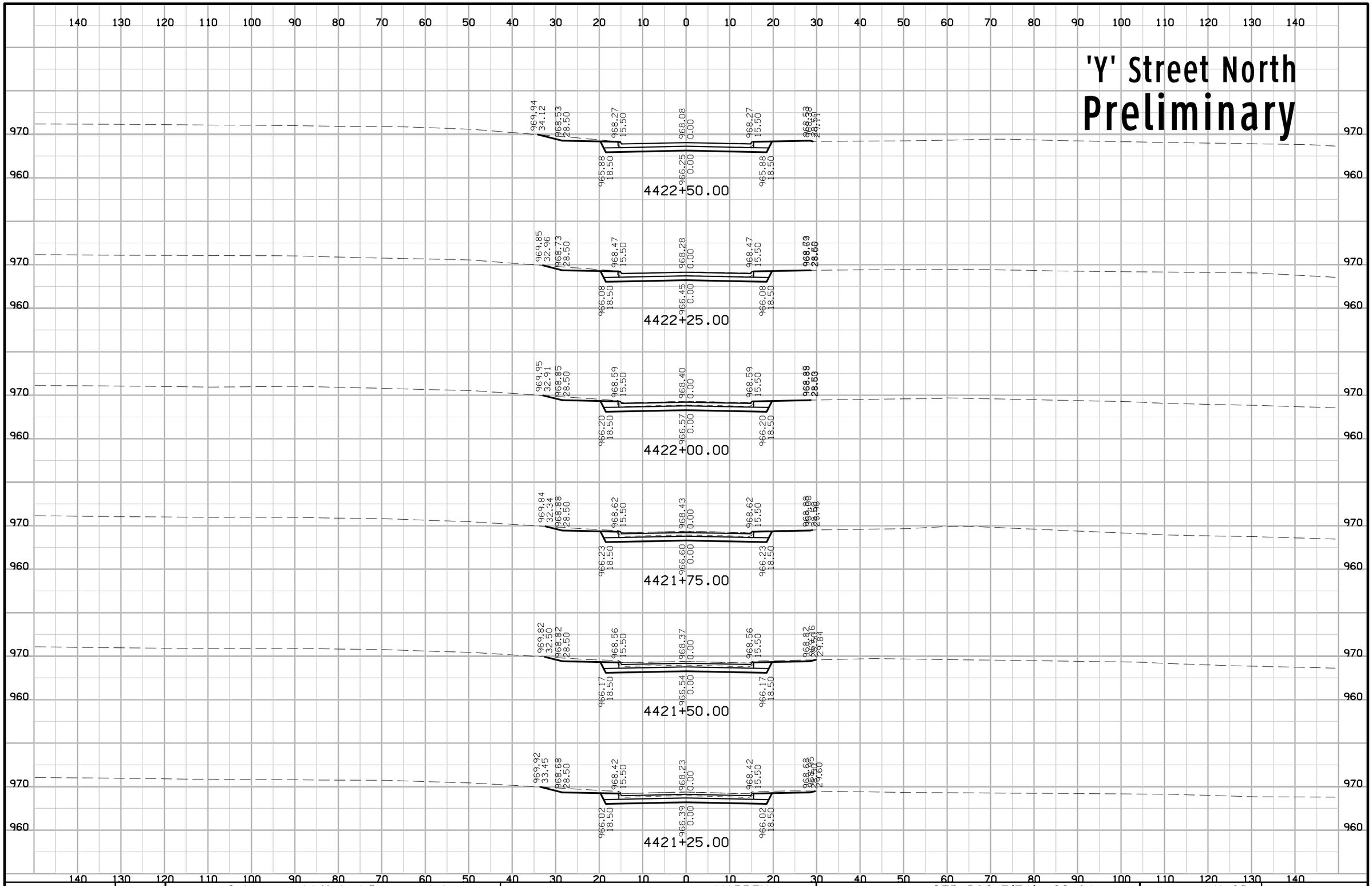
'Y' Street North
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.29

4:28:23 PM 3/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051X08_YSTN.sht

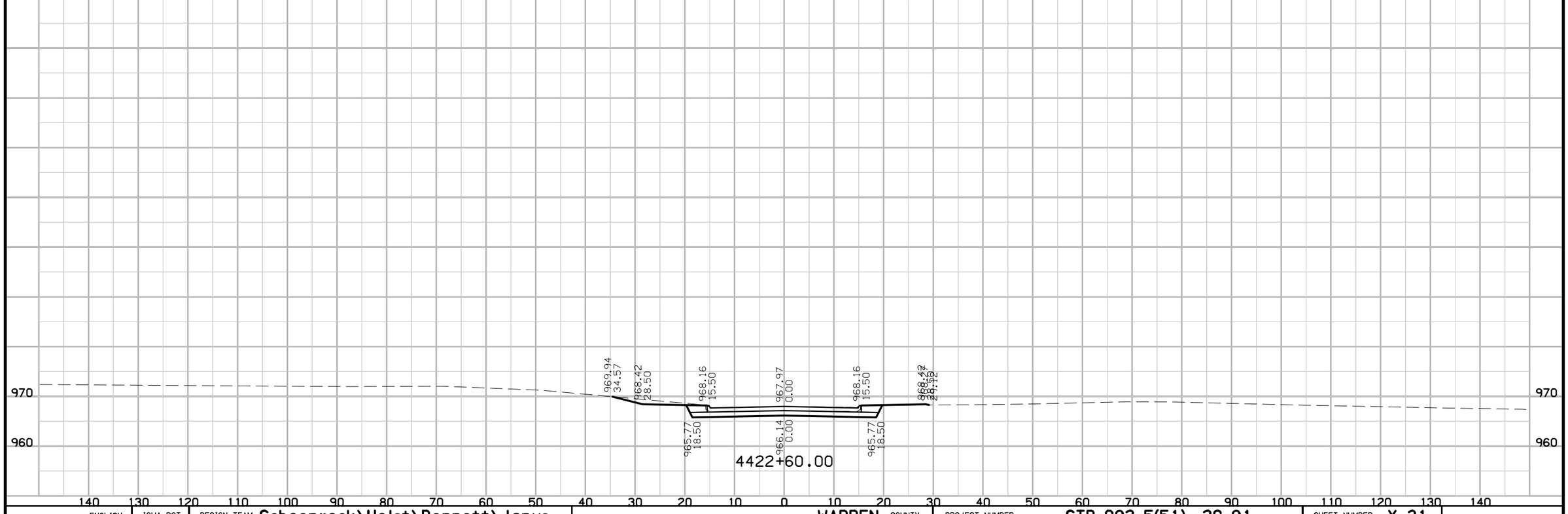
'Y' Street North
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.30

4:28:23 PM 3/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051X08_YSTN.sht

'Y' Street North
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.31

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