GRE

JANUARY 2021

PROJECT ID: 1470-25-71

WITH: N/A

COUNTY: KEWAUNEE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 316

N

DESIGN DESIGNATION

A.A.D.T.	(2023)	=	2,900
A.A.D.T.	(2043)	=	3,400
D.H.V.		=	410
D.D.		=	61/39
T.		=	10.5
DESIGN SPEED		=	55 MPH
ESALS		=	570,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SCL - KEWAUNEE

SCL - SOUTH CITY LIMITS KEWAUNEE

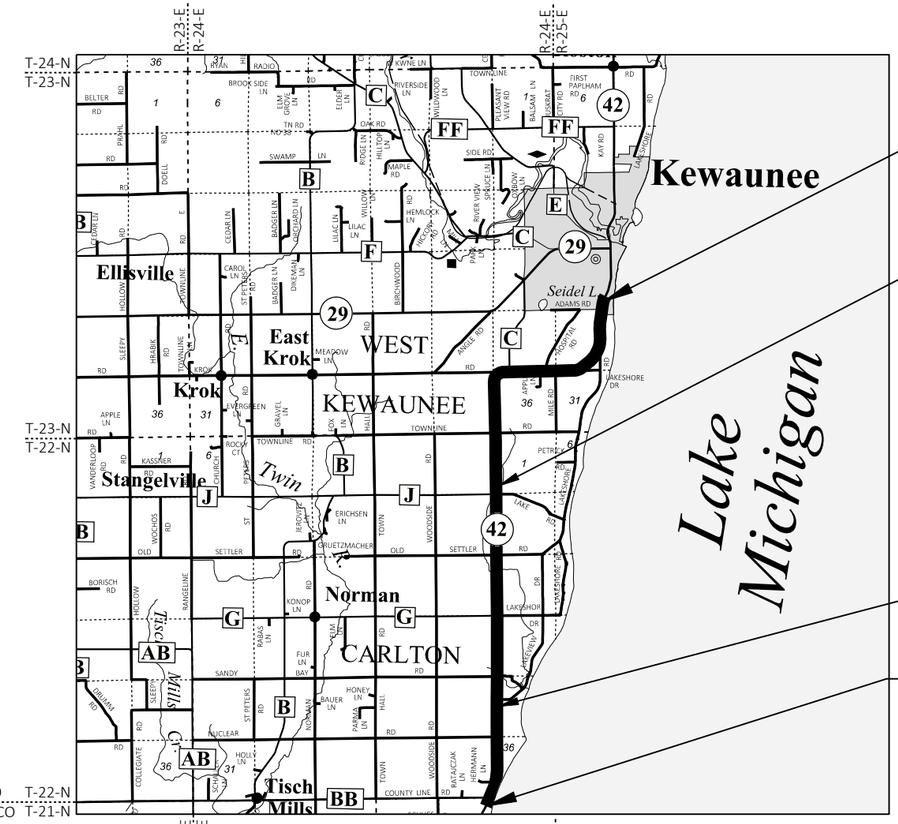
STH 42

KEWAUNEE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1470-25-71	WISC 2021089	1

STATE PROJECT NUMBER

1470-25-71



END PROJECT
STA 612+72.65

C-31-19 (EXISTING)
C-31-56 (PROPOSED)

C-31-10 (EXISTING)
C-31-57 (PROPOSED)

BEGIN PROJECT
STA 89+86.50
Y=385,823.652
X=262,772.598

LAYOUT

SCALE 0 2.5 MI

TOTAL NET LENGTH OF CENTERLINE = 9.903 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, KEWAUNEE COUNTY, NAD 83(2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. VERTICAL POSITIONS SHOWN ON THIS PLAN ARE NAVD 88(2012) DATUM.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	NE REGION
Designer	D. KIRST
Project Manager	J. J. ASHAUER
Regional Examiner	
Regional Supervisor	J. F. THOMPSON

APPROVED FOR THE DEPARTMENT

DATE: 1/31/2020 Jeremy J. Ashauer (Signature)

E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\010101-TI.DWG PLOT DATE : 1/14/2020 2:53 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME :

GENERAL NOTES

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

THE EXACT LOCATIONS AND LIMITS OF PRIVATE AND FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN WITH THE ENGINEER.

EXISTING DRAINAGE DITCHES AND CULVERT PIPES WILL REMAIN FUNCTIONAL DURING EXCAVATION OPERATIONS.

PRIOR TO THE PLACEMENT OF GUARDRAIL, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED UNLESS OTHERWISE SHOWN.

MODIFICATIONS TO SIDEROAD MILL/OVERLAY LIMITS MUST BE APPROVED BY FIELD ENGINEER.

EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS OTHERWISE DIRECTED BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SUBGRADE SHOULDER POINTS, ARE TO BE RESTORED WITH SALVAGED TOPSOIL, FARMLAND SALVAGED TOPSOIL, OR TOPSOIL, FERTILIZER, SEED, AND MULCH/EMAT WITHIN 5 CALENDAR DAYS OF FINAL GRADING/TOPSOILING OR AS DIRECTED BY THE ENGINEER.

HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS		
THICKNESS	LAYERS	ASPHALT MIX BID ITEM
4-INCH	ONE 1 3/4-INCH UPPER LAYER ONE 2 1/4-INCH LOWER LAYER	4 LT 58-28 S 3 LT 58-28 S
5-INCH	ONE 1 3/4-INCH UPPER LAYER ONE 3 1/4-INCH LOWER LAYERS	4 LT 58-28 S 3 LT 58-28 S

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
CONTOUR MAP
EROSION CONTROL
STORM SEWER
DETOUR PLAN

UTILITY CONTACTS

JOSEPH KASSAB
AT&T WI - COMMUNICATION LINE
205 S. JEFFERSON ST
GREEN BAY, WI 54301
(920) 735-3206
jk572k@att.com

BRUCE HENRY
CHARTER COMMUNICATIONS - COMMUNICATION LINE
1623 BROADWAY AVENUE
SHEBOYGAN, WI 53081
(920) 907-7720
bruce.henry@charter.com

STEVE JAKUBIEC
TDS TELECOM - COMMUNICATION LINE
10 COLLEGE AVE
APPLETON, WI 54911
(920) 882-4166
steve.jakubiec@tdstelecom.com

MIKE OLSEN.
ATC MGMT INC. - ELECTRICITY-TRANSMISSION
801 O'KEEFE RD
P.O.BOX 6113
DE PERE, WI 54115-6113
(920) 338-6582
molsen@atcllc.com

LORI BUTRY
WISCONSIN PUBLIC SERVICES - ELECTRICITY
700 N ADAMS ST
P.O.BOX 19001
GREEN BAY, WI 54307-9001
(920) 433-1703
LAButry@integrysgroup.com

LORI BUTRY
WISCONSIN PUBLIC SERVICES - GAS/PETROLEUM
700 N ADAMS ST
P.O.BOX 19001
GREEN BAY, WI 54307-9001
(920) 433-1703
LAButry@integrysgroup.com

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

DNR LIASION

MATT SCHAEVE
DEPARTMENT OF NATURAL RESOURCES
NORTHEAST REGION
2984 SHAWANO AVE
GREEN BAY, WI 54313
(920)366-1544
matthew.schaeve@wisconsin.gov

KEWAUNEE COUNTY COMMISSIONER

TODD EVERY
HIGHWAY COMMISSIONER
E4280 COUNTY HIGHWAY F
KEWAUNEE, WI 54216
(920)388-3707
everyt@kewauneeco.org

NE REGION SURVEY COORDINATOR

CORMAC MCINNIS, RLS
944 VANDERPERREN WAY
GREEN BAY, WI 54304
(920)492-5638
cormac.mcinnis@dot.wi.gov

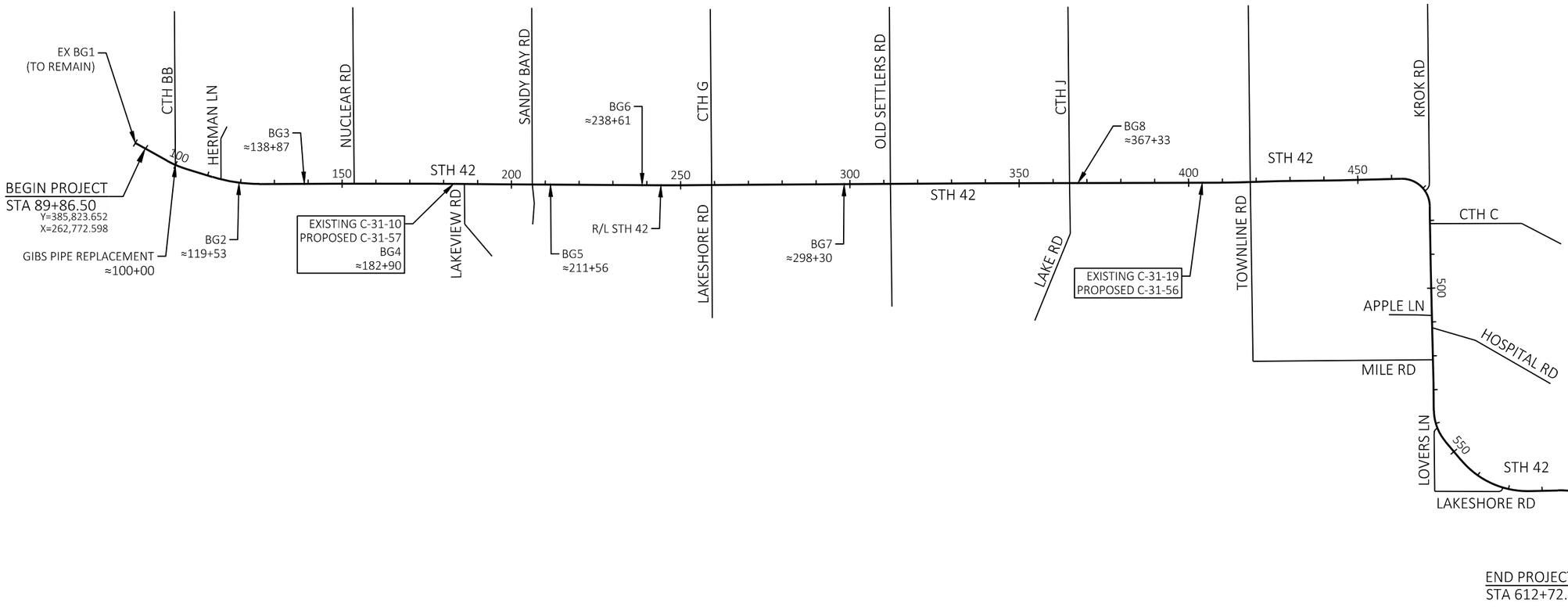
NE REGION DESIGN PROJECT MANAGER

JEREMY ASHAUER, PE
944 VANDERPERREN WAY
GREEN BAY, WI 54304
(920) 412-6381
jeremy.ashauer@dot.wi.gov

2

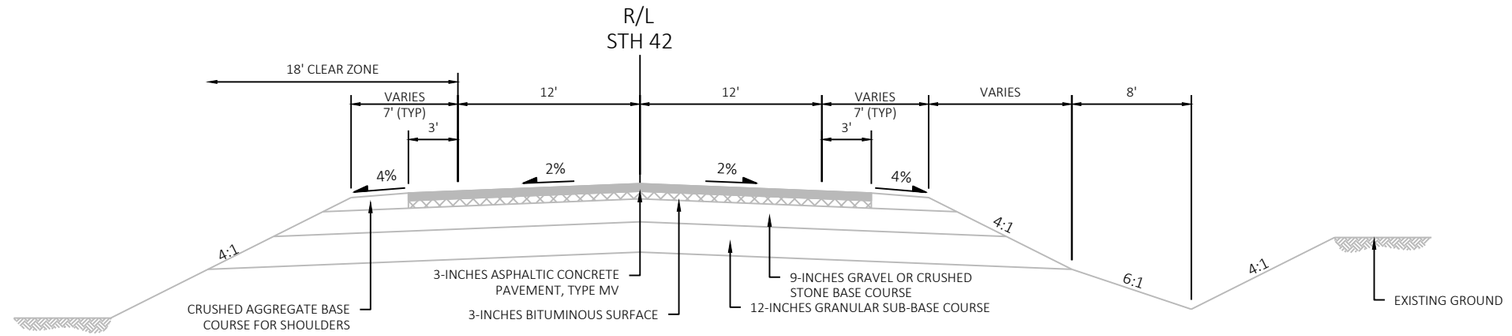
2

N



BG = GUARDRAIL REPLACEMENT LOCATIONS AND APPROXIMATE CENTER STATIONING

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PROJECT OVERVIEW	SHEET 3	E

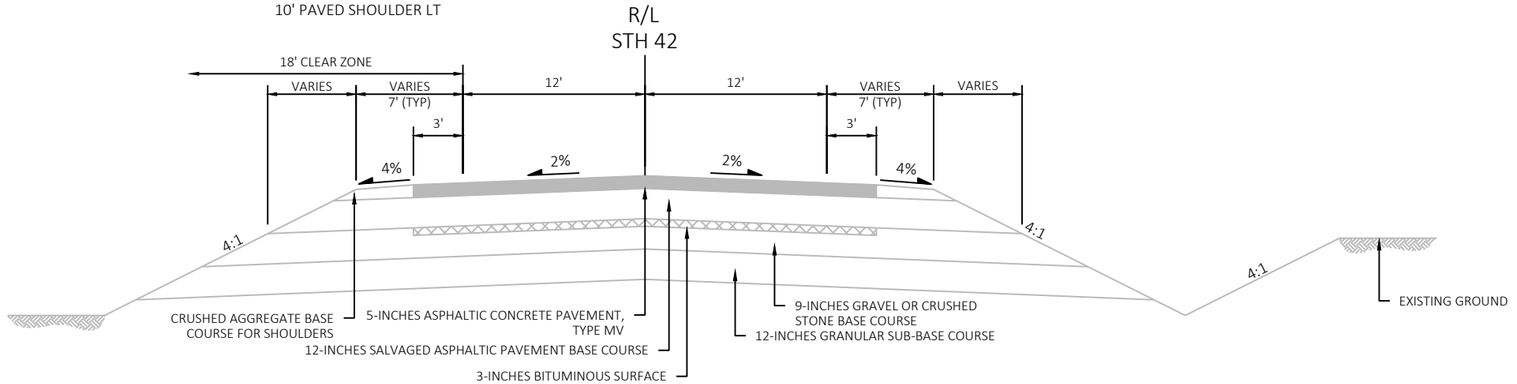


*STA 462+05 TO STA 482+46
10' PAVED SHOULDER
2' GRAVEL SHOULDER
*STA 529+75 TO STA 531+24 LT
10' PAVED SHOULDER
**STA 597+87 TO 599+11 LT
10' PAVED SHOULDER LT

EXISTING TYPICAL SECTION STH 42

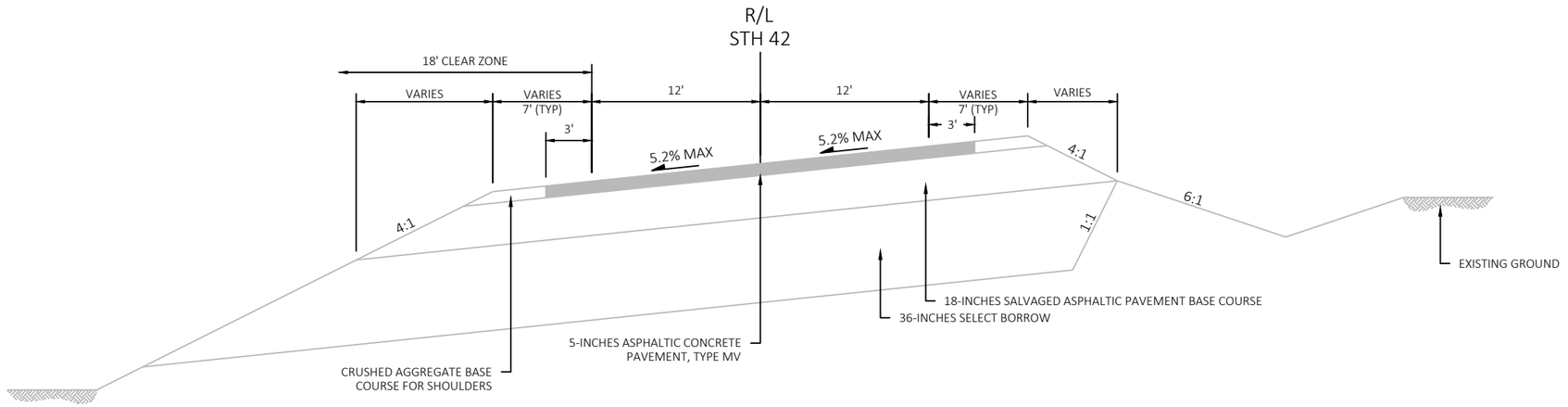
STA 89+56.50 TO STA 124+25
STA 134+17 TO STA 561+12*
STA 566+11 TO STA 612+72.65**

*STA 503+77 TO STA 513+56 RT
10' PAVED SHOULDER



EXISTING TYPICAL SECTION STH 42

STA 124+25 TO STA 134+17
(LIFT AREA)

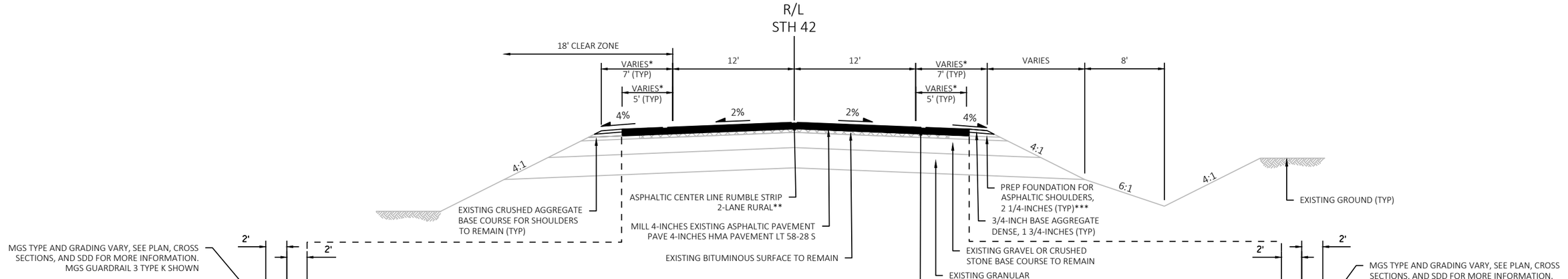


EXISTING TYPICAL SECTION STH 42

STA 561+12 TO STA 566+11
(E.B.S. AREA)

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	TYPICAL SECTIONS	SHEET 4	E

2



STA 117+17 TO STA 123+76 LT
STA 135+59 TO STA 141+41 LT
STA 181+30 TO STA 181+93 LT
STA183+86 TO STA 186+12 LT
STA 209+10 TO STA 214+91 LT
STA 235+22 TO STA 241+41 LT
STA 295+87 TO STA 302+93 LT
STA 365+78 TO STA 369+34 LT

*STA 241+40 TO STA 252+37 LT
7' PAVED SHOULDER
2' GRAVEL SHOULDER
STA 462+05 TO STA 482+46
10' PAVED SHOULDER
2' GRAVEL SHOULDER
STA 529+75 TO STA 531+24 LT
10' PAVED SHOULDER
STA 597+87 TO STA 599+11 LT
10' PAVED SHOULDER LT

**STA 584+61 - 612+72.65
NO CENTERLINE OR SHOULDER RUMBLE STRIPS

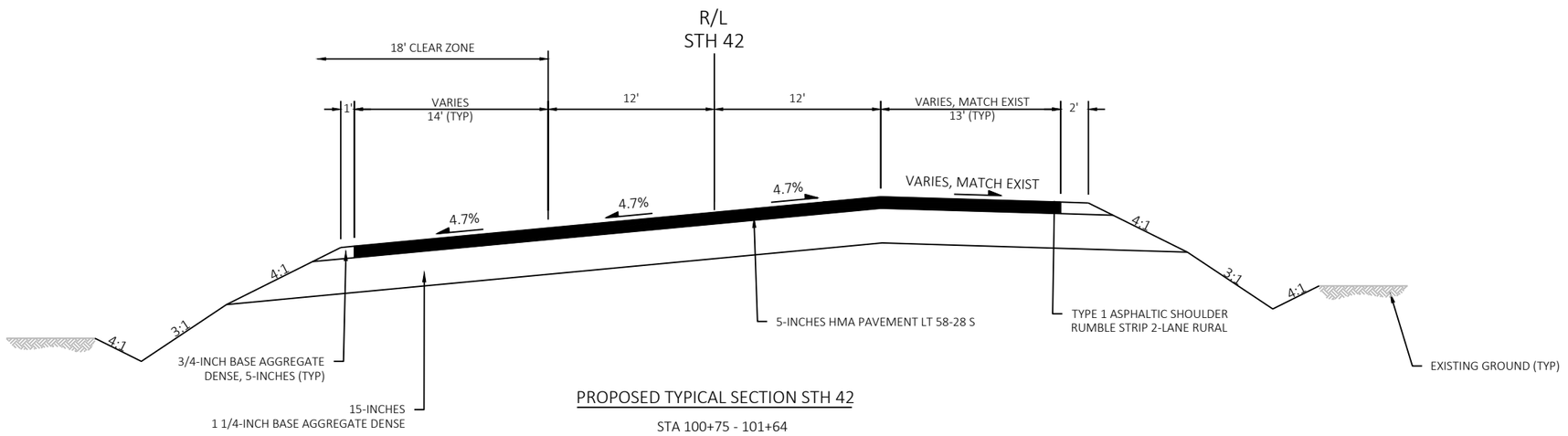
PROPOSED TYPICAL SECTION STH 42

STA 89+57 TO 100+75
STA 101+64 TO STA 124+25
STA 134+17 TO STA 181+93
STA 183+86 TO STA 403+32*
STA 404+82 TO STA 561+12*
STA 566+11 TO 612+73*

*STA 503+77 TO STA 513+56 RT
10' PAVED SHOULDER

STA 117+87 TO STA 122+03 RT
STA 134+00 TO STA 141+56 RT
STA 180+65 TO STA 181+93 RT
STA 183+86 TO STA 185+21 RT
STA 207+75 TO STA 214+31 RT
STA 236+11 TO STA 242+29 RT
STA 294+33 TO STA 302+14 RT
STA 365+56 TO STA 371+50 RT

***PREP FOUNDATION FOR ASPHALTIC SHOULDERS: AFTER PLACING HMA LOWER LAYER, USE EXISTING SHOULDERING MATERIAL LEFT OVER FROM WIDENING PAVED SHOULDER TO CREATE ~2.04-FT WIDE AGGREGATE SHOULDER AT 4% SLOPE.



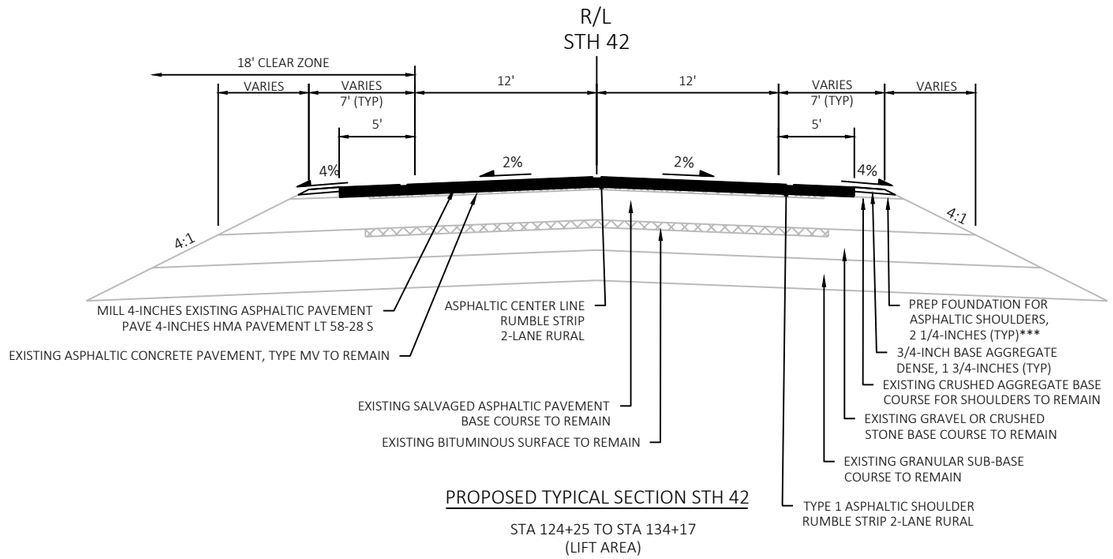
PROPOSED TYPICAL SECTION STH 42

STA 100+75 - 101+64

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN: TYPICAL SECTIONS	SHEET 5	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020302-ts
PLOT DATE : 10/28/2020 1:41 PM
PLOT BY : KIRST, DOUGLAS P
PLOT NAME :
PLOT SCALE : 1IN:10 FT

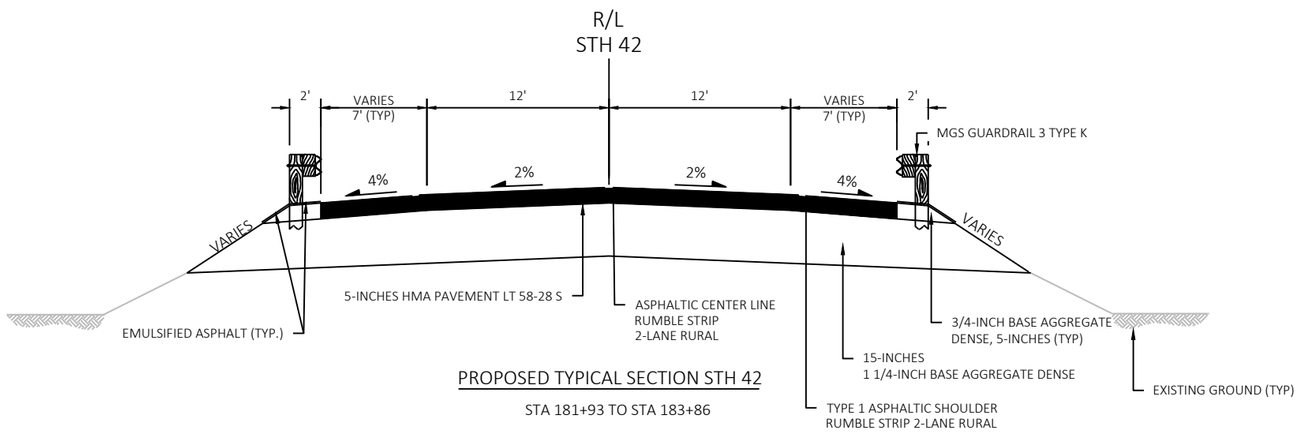
2



PROPOSED TYPICAL SECTION STH 42

STA 124+25 TO STA 134+17
(LIFT AREA)

***PREP FOUNDATION FOR ASPHALTIC SHOULDERS: AFTER PLACING HMA LOWER LAYER, USE EXISTING SHOULDERING MATERIAL LEFT OVER FROM WIDENING PAVED SHOULDER TO CREATE ~2.04-FT WIDE AGGREGATE SHOULDER AT 4% SLOPE.



PROPOSED TYPICAL SECTION STH 42

STA 181+93 TO STA 183+86

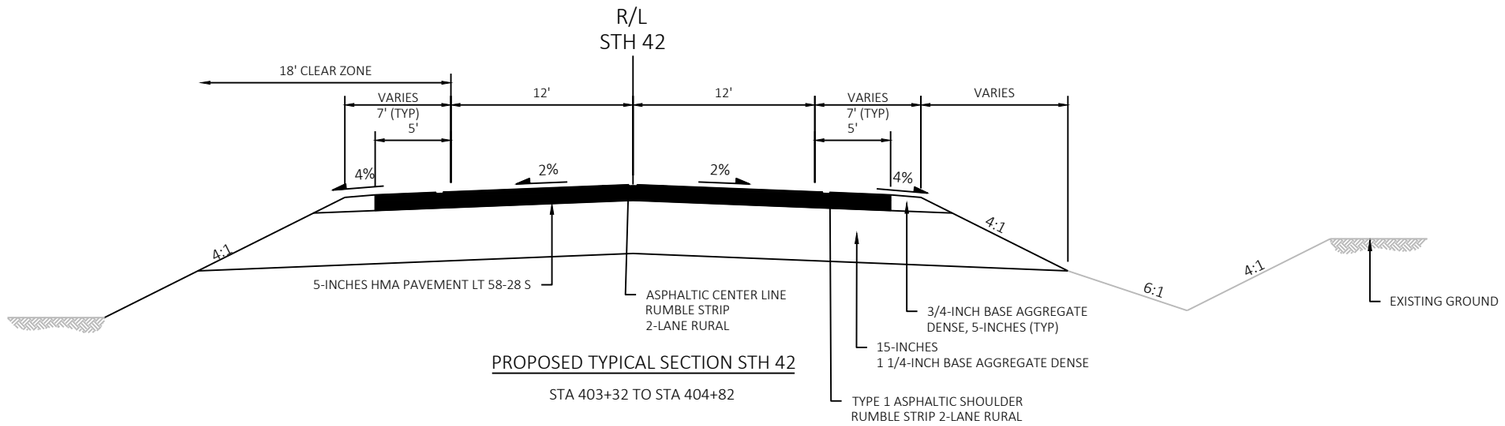
PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN: TYPICAL SECTIONS	SHEET 6	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020303-ts

PLOT DATE : 10/28/2020 1:41 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1IN:10 FT

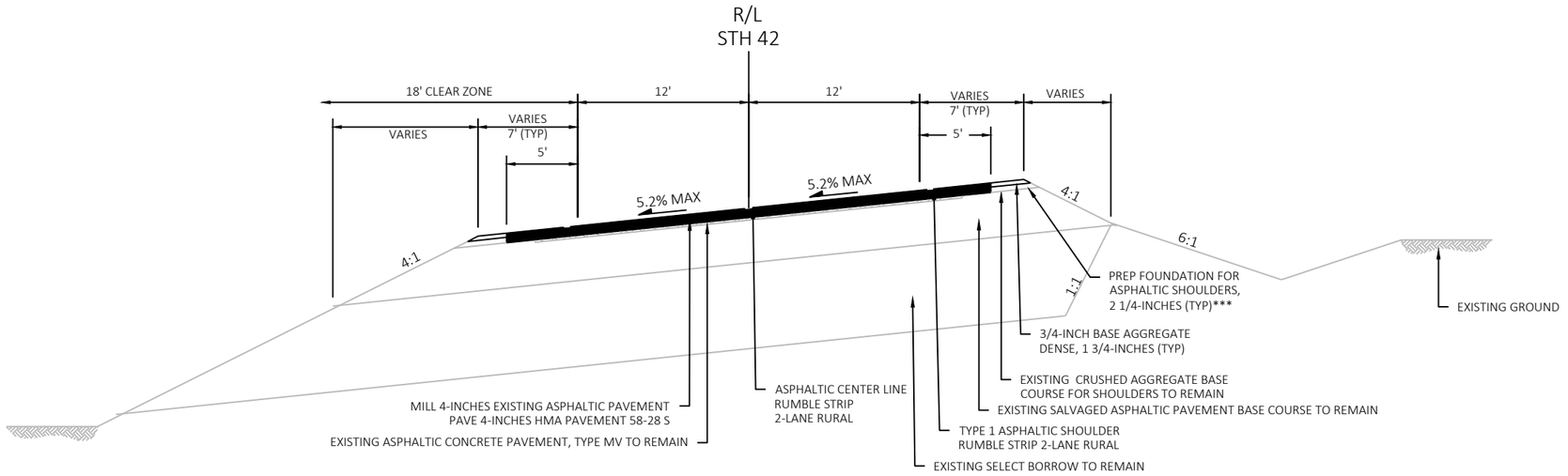
WISDOT/CADDS SHEET 42

2



PROPOSED TYPICAL SECTION STH 42

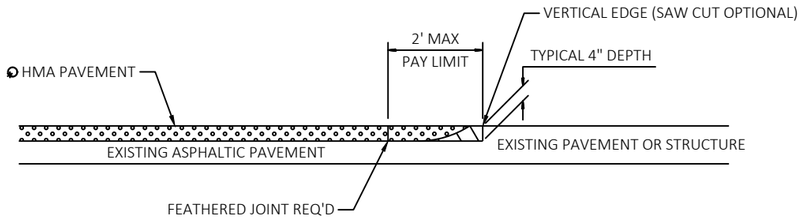
STA 403+32 TO STA 404+82



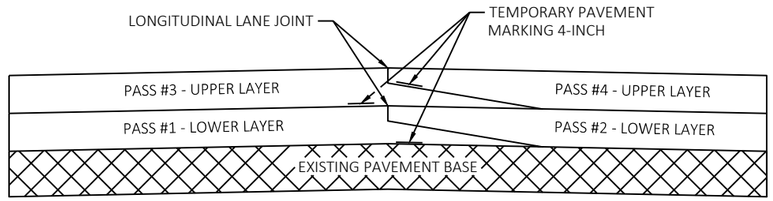
PROPOSED TYPICAL SECTION STH 42

STA 561+12 TO STA 566+11
(E.B.S. AREA)

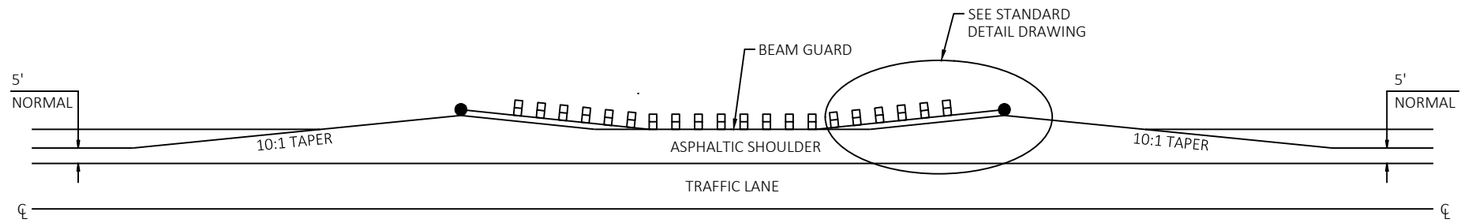
***PREP FOUNDATION FOR ASPHALTIC SHOULDERS: AFTER PLACING HMA LOWER LAYER, USE EXISTING SHOULDERING MATERIAL LEFT OVER FROM WIDENING PAVED SHOULDER TO CREATE ~2.04-FT WIDE AGGREGATE SHOULDER AT 4% SLOPE.



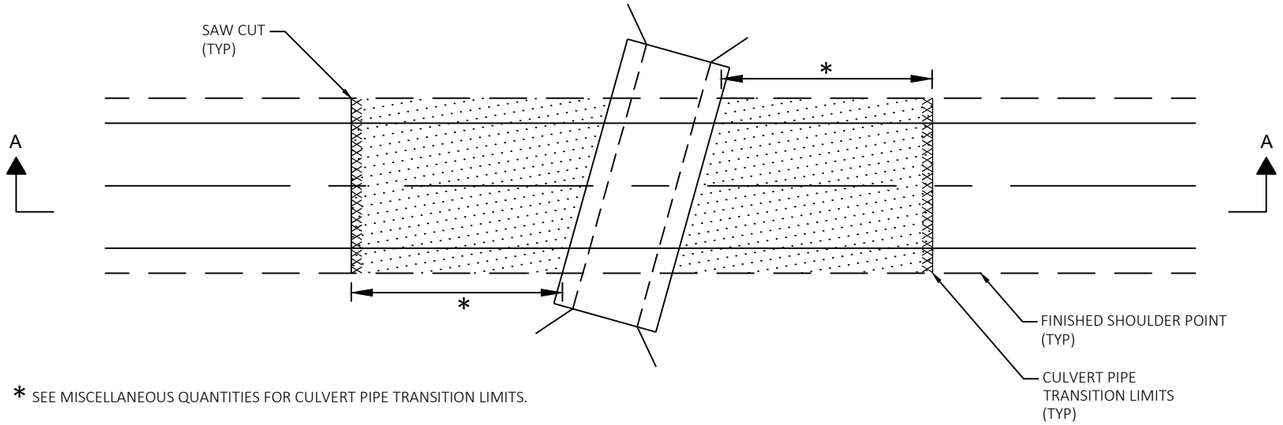
BUTT JOINT DETAIL FOR ASPHALTIC PAVEMENTS (NO PROFILE CHANGE)



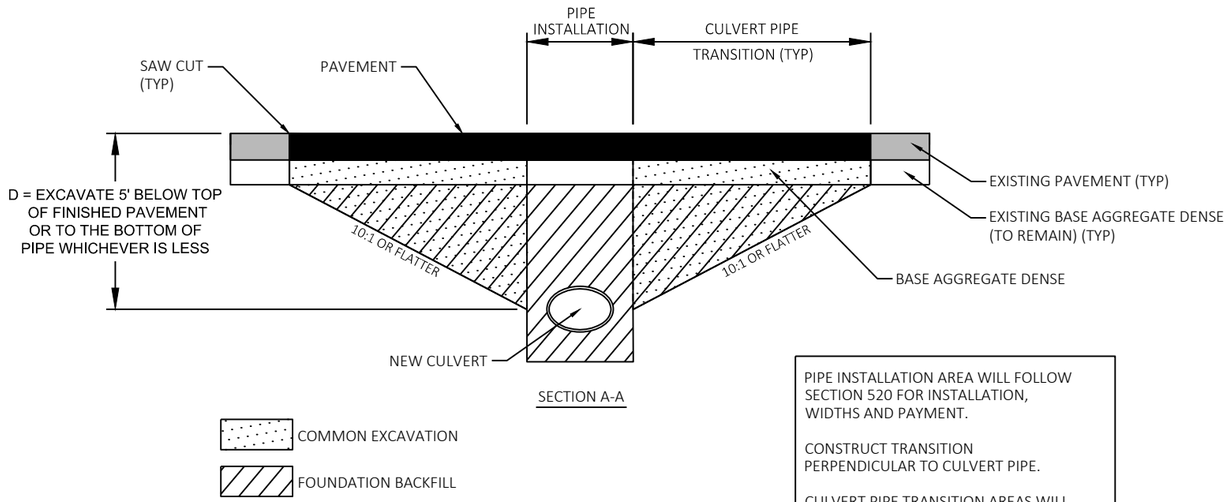
PAVEMENT MARKING DETAIL FOR TAPERED OVERLAPPING JOINTS IN HMA PAVEMENTS



DETAIL FOR ASPHALTIC SHOULDER AT BEAM GUARD



* SEE MISCELLANEOUS QUANTITIES FOR CULVERT PIPE TRANSITION LIMITS.



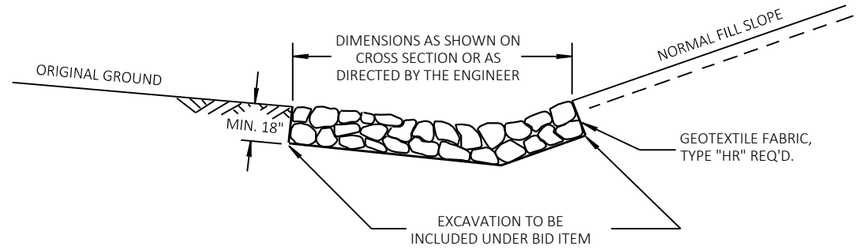
PIPE INSTALLATION AREA WILL FOLLOW SECTION 520 FOR INSTALLATION, WIDTHS AND PAYMENT.

CONSTRUCT TRANSITION PERPENDICULAR TO CULVERT PIPE.

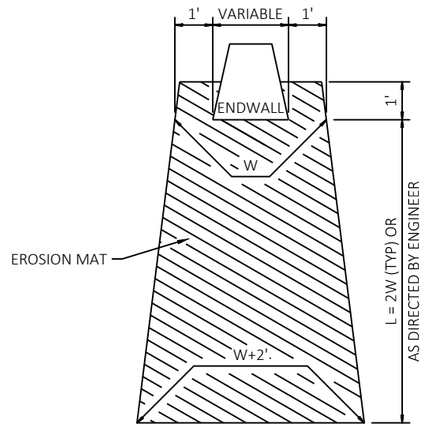
CULVERT PIPE TRANSITION AREAS WILL BE PAID BY SPV "FOUNDATION BACKFILL & COMMON EXCAVATION".

PAVEMENT SAW CUT TO BE PERPENDICULAR TO ROADWAY ALIGNMENT.

NEW CULVERT PIPES WITH TRANSITION



DETAIL FOR RIPRAP IN DITCHES



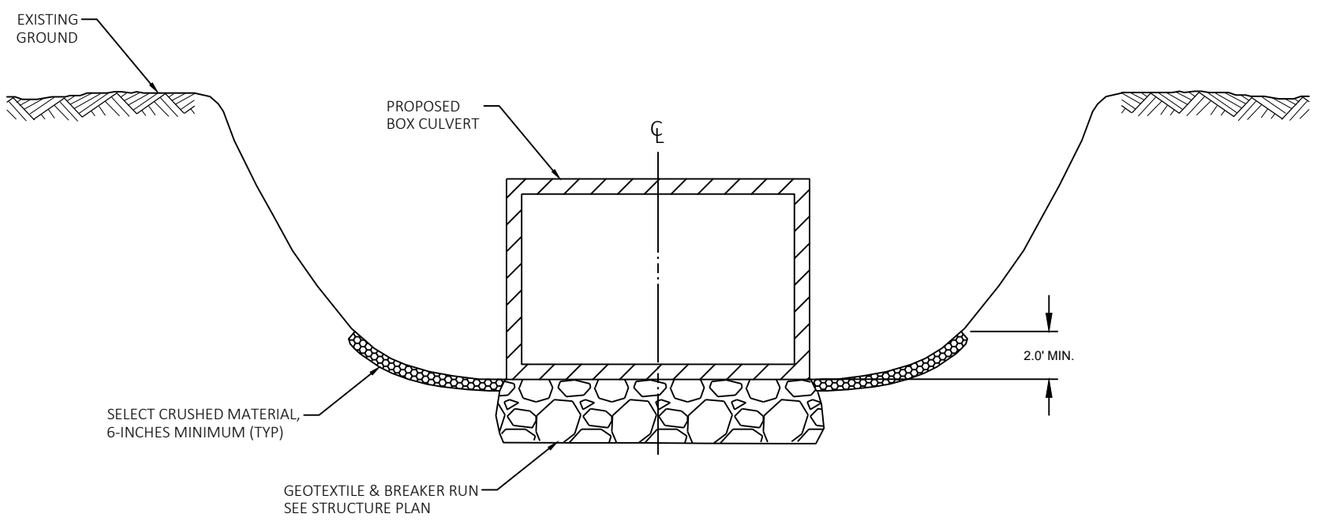
EROSION MAT TREATMENT AT CULVERTS

2

RUNOFF COEFFICIENT TABLE

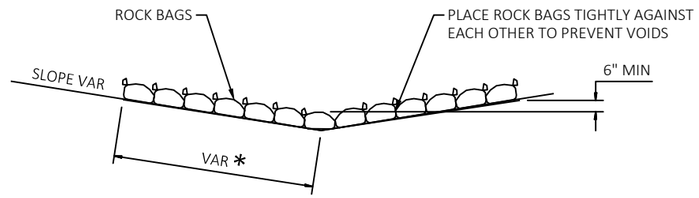
A	HYDROLOGIC SOIL GROUP											
	B		C						D			
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE: TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 104.952 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 48.326 ACRES

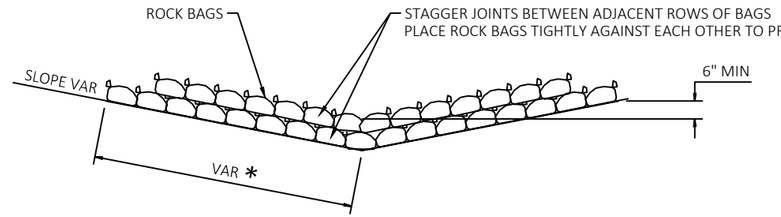


EXCAVATION PROTECTION AT BOX CULVERTS

(NOT TO SCALE)
INFORMATION ONLY



SIDE VIEW (SINGLE LAYER)

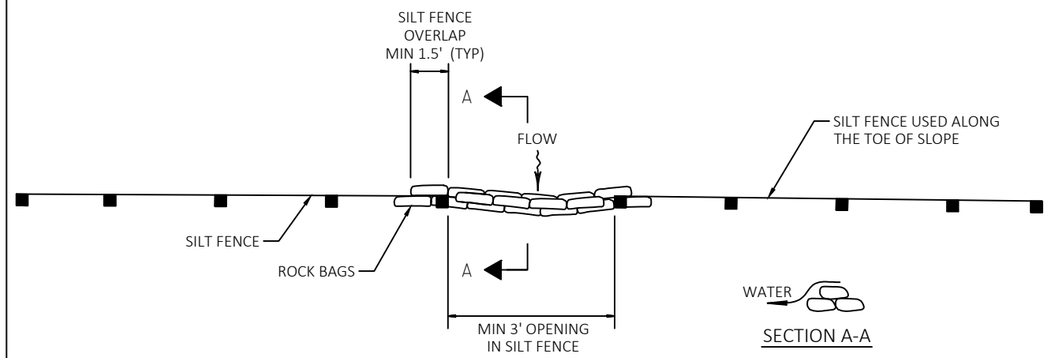


* LENGTH AND NUMBER OF BAGS MAY VARY DEPENDING ON DESIRED DEPTH OF WATER POOL

SIDE VIEW (MULTIPLE LAYER)

ROCK BAGS DITCH CHECK

PAID AS ROCK BAGS



TOP VIEW

ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CONSTRUCTION DETAILS	SHEET 10	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\021001-CD.DWG
LAYOUT NAME - 021003-cd
PLOT DATE : 1/14/2020 2:53 PM
PLOT BY : KIRST, DOUGLAS P
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

2

2

EXISTING DITCH

EXISTING R/W

PROPOSED DITCH

STH 42 12-FT O/S LT

PLE

EDGE OF PAVED SHOULDER LT

RIPRAP LIGHT 4'x4' AREA

~1-FT FROM DITCH BOTTOM

A

A

EXISTING END OF DRAIN TILE STA. 369+44, 42.2-FT LT

SLOPE INTERCEPT

FARMLAND SALVAGED TOPSOIL LIMITS (SEE PLAN DETAIL)

EXISTING CONCRETE DRAIN TILE

SIGN

N

STH 42 R/L

STH 42

369+00

EXISTING DRAIN TILE CONNECTION
PLAN VIEW

TOP OF BERM
-45.31' LT, 679.55

10.0:1

1'

3.0:1

PROPOSED GRADING

~1.0'

DITCH
-39.81' LT, 677.72

3.0:1

FARMLAND SALVAGED TOPSOIL

3.4'

2.1'

RIPRAP LIGHT

GEOTEXTILE TYPE R

EXISTING DRAIN TILE
WITH BAR GRATE
INVERT ELEV. = 676.06

EXISTING DRAIN TILE
SECTION A - A
FACING NORTH

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CONSTRUCTION DETAILS	SHEET 11	E

2

2

CPRC CLASS IV 30-INCH REQUIRED
TWO (2) AEWs FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH REQUIRED
PIPE INVERT: 101+18.34, -35.39' LT, 616.45'
PIPE DISCHARGE: 101+15.70, 40.56' RT, 616.20'
PIPE LENGTH: 76'
PIPE SLOPE: 0.33%
SKEW: 2° LHF
STATION 101+17.09

CPRC CLASS IV 30-INCH REQUIRED
TWO (2) AEWs FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH REQUIRED
PIPE INVERT: 101+24.62, -35.15' LT, 616.45'
PIPE DISCHARGE: 101+21.81, 40.80' RT, 616.20'
PIPE LENGTH: 76'
PIPE SLOPE: 0.33%
SKEW: 2° LHF
STATION 101+23.30

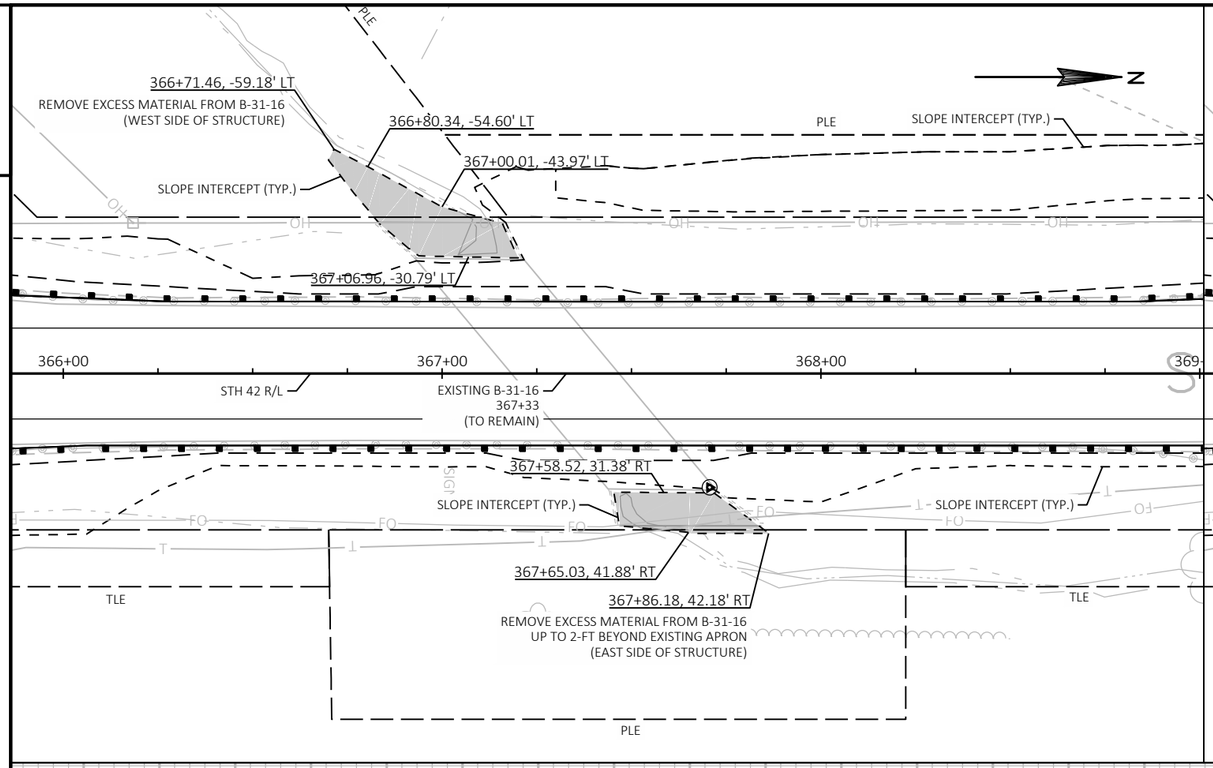
CPCS 18-INCH REQUIRED
TWO (2) AEWs FOR CULVERT PIPE STEEL 18-INCH REQUIRED
INVERT: 99+74.71, 43.40' RT, 618.65'
DISCHARGE: 100+31.06, 46.07' RT, 618.16'
LENGTH: 57'
SLOPE: 0.85%
SKEW: 2.1° LHF
STATION 100+03

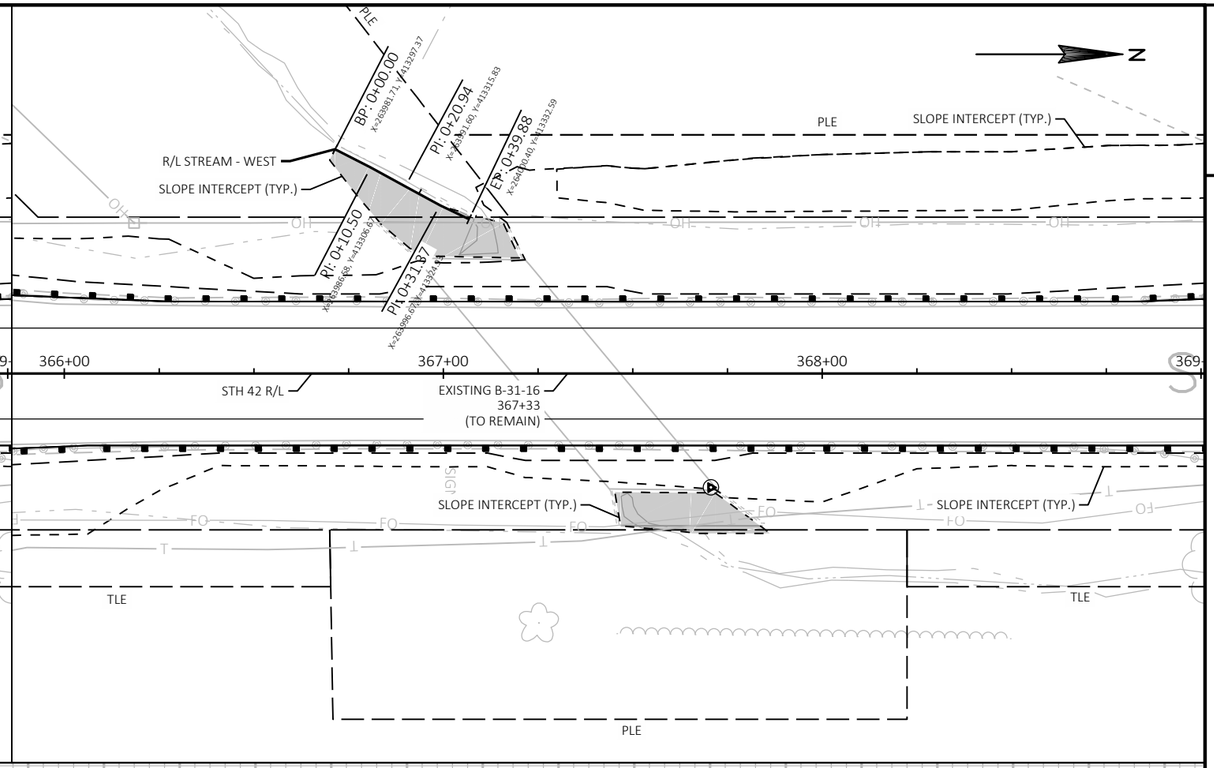
CTH BB
CTH BB R/L
8'BB'+00
9'BB'+00
'BB'+28.88
0.00'
BUTT JOINT REQ'D
MOVE SIGNS TYPE II
MOVE SMALL SIGN SUPPORT
SLOPE INTERCEPT (TYP)
EXIST RW
PC: 97+17.49
STH 42 R/L
STH 42
98+00
99+00
100+00
101+00
102+00
103+00
SAW CUT REQ'D
+75.00
0.00'
+64.00
0.00'
+45.35
-26.00' LT
+57.85
-17.00' LT
PI: 103+14.65
14'
12'
VAR.
2'
1'
5'
+75.00
25.00' RT
+23.19
25.00' RT
+47.05
51.91' RT
+63.86
22.85' RT
+70.89
22.49' RT
+72.70
47.14' RT
+23.02
22.57' RT
+27.95
39.30' RT
+60.94
21.94' RT
+50.73
38.39' RT
AGGREGATE SHOULDER (TYP)
EDGE OF ASPHALT (TYP)
REMOVE EXISTING 18-INCH CMCP
REMOVE EXISTING 18-INCH RCCP
SEE STORM SEWER PLAN
REMOVE DRIVEWAY 9-INCHES BELOW SURFACE
(PAID AS COMMON EXCAVATION)
ASPHALTIC SURFACE DRIVEWAY
PERMANENT LIMITED EASEMENT
(DRAINAGE)
REMOVE EXISTING 30-INCH CMCP (2)
REMOVE MASONRY
101+18, 50' RT
DRAIN TILE EXPLORATION.
AN EXISTING DRAIN TILE CLEAN OUT IS LOCATED AT THE OUTFALL OF THE EXISTING PIPES.
VERIFY THE ORIENTATION OF THE DRAIN TILE AND EXCAVATE AN EXPLORATORY TRENCH THAT EXPOSES THE DRAIN TILE UP TO 10-FT FROM FROM THE CLEAN OUT PIPE.
WORK WITH THE FIELD ENGINEER TO DETERMINE THE NEXT APPROPRIATE ACTION (CAP, EXTEND, ETC.)

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN DETAIL	SHEET 12	E

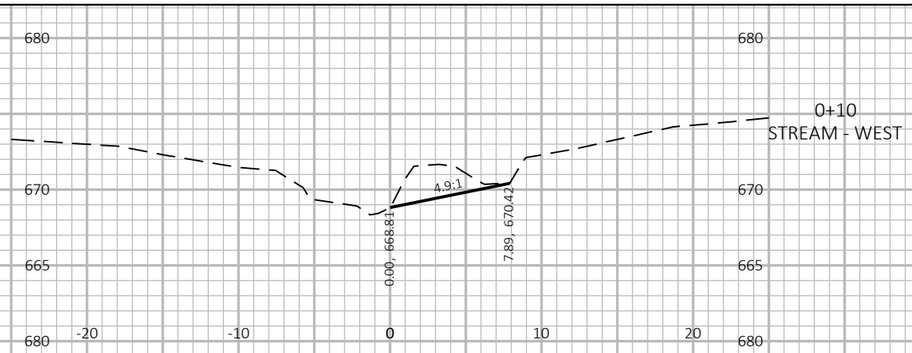
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-pd
PLOT DATE : 10/28/2020 1:09 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

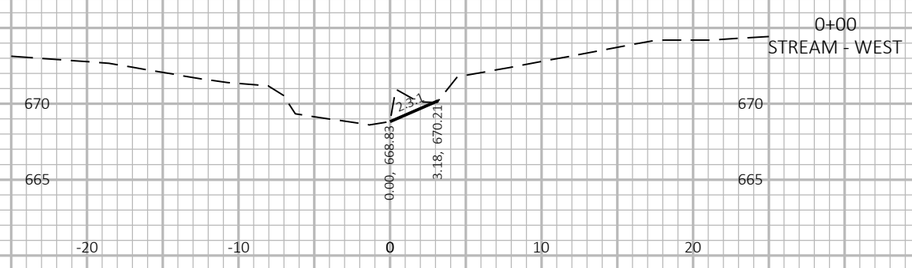
2

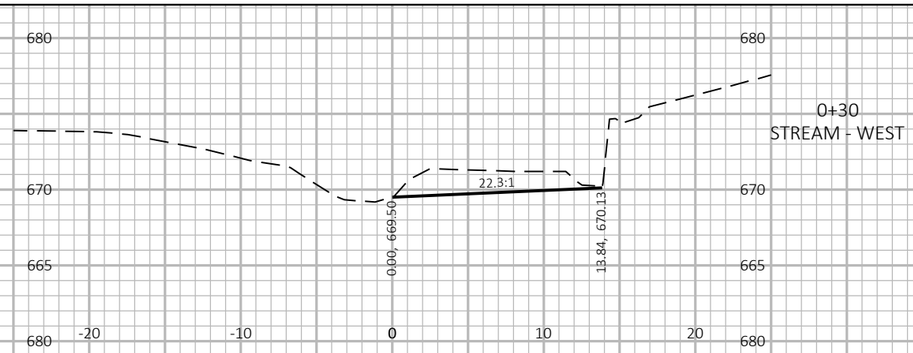


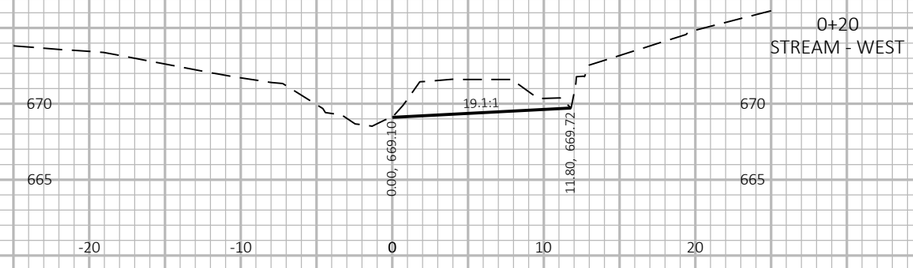


2









PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWUANEE	PLAN DETAIL: REMOVE EXCESS MATERIAL FROM B-31-16	SHEET 13	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\021202-PD.DWG
LAYOUT NAME - 021202-pd
PLOT DATE : 1/14/2020 3:35 PM
PLOT BY : KIRST, DOUGLAS P
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

N

EXISTING HIGHWAY EASEMENT

CTH J

9+00

CTH J R/L

FARMLAND SALVAGED TOPSOIL
FROM TOP OF BERM OR EXISTING R/W TO
SLOPE INTERCEPT
1-FT DEPTH

EXISTING DRAIN TILE

RIPRAP LIGHT
4'x4'
(SEE CONSTRUCTION DETAIL)

PLE

SLOPE INTERCEPT (TYP.)

+29.97
-53.93'LT

+53.19
-54.07'LT

+00.00
-57.79'LT

+50.00
-58.54'LT

+83.72
-60.26'LT

+33.73
-62.27'LT

+00.00
-50.13'LT

EXISTING R/W

+30.00
-46.38'LT

+53.19
-43.07'LT

+50.00
-43.11'LT

+83.72
-46.12'LT

+33.72
-46.67'LT

+80.10
-41.25'LT

+00.00
-41.25'LT

365+00

STH 42 R/L

366+00

367+00

368+00

369+00

370+00

STH 42

STH 42

SLOPE INTERCEPT (TYP.)

LAKE RD R/L

TLE

EXISTING R/W

EXISTING R/W

TLE

EXISTING HIGHWAY EASEMENT

11+00

LAKE RD

LAKE RD

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN DETAIL - FARMLAND SALVAGED TOPSOIL	SHEET 14	E

2

N

TLE

EXIST R/W

SLOPE INTERCEPT

STH 42

182+00

183+00

184+00

R/L STH 42

C-31-57

SLOPE INTERCEPT

EXIST R/W

TLE

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CONTOUR MAP STRUCUTRE C-31-57	SHEET 15	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\021601-CM.DWG
LAYOUT NAME - 021601-cm

PLOT DATE : 1/14/2020 2:54 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

N

SLOPE INTERCEPT

TLE

EXIST R/W

EXIST R/W

700

700

700

700

697

697

700

700

C-31-56

R/L STH 42

403+00

404+00

405+00

705

705

STH 42

EXIST R/W

705

TLE

705

EXIST R/W

705

TLE

SLOPE INTERCEPT

700

700

EXIST R/W

700

705

696

696

2

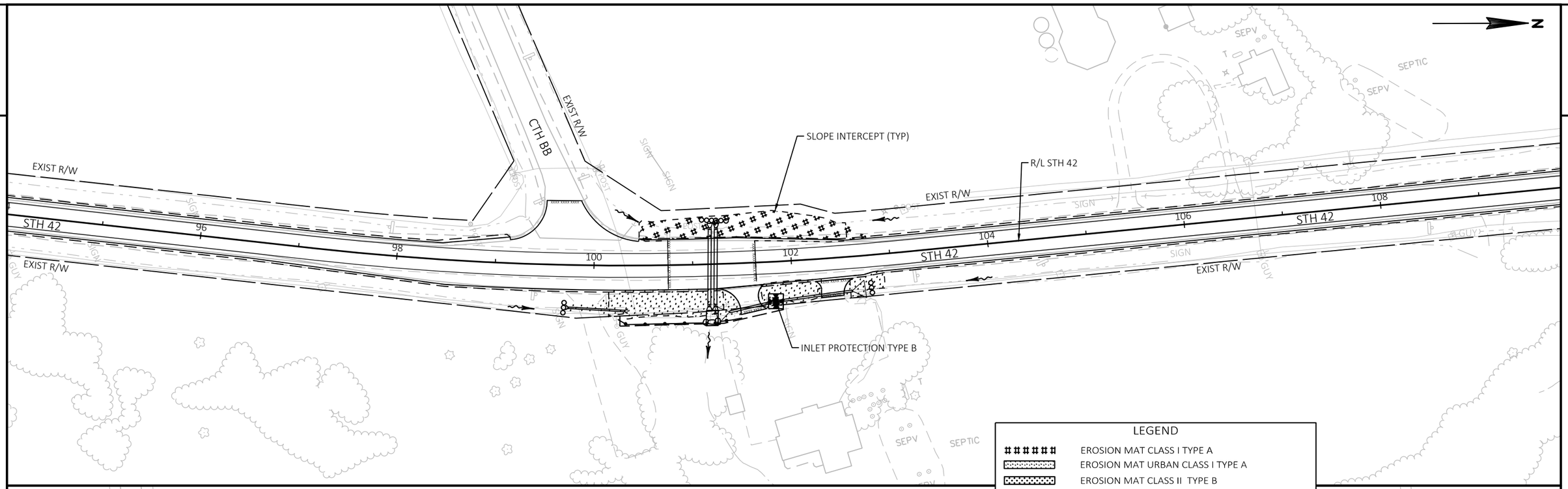
PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CONTOUR MAP STRUCTURE C-31-56	SHEET 16	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\021601-CM.DWG
LAYOUT NAME - 021602-cm

PLOT DATE : 1/14/2020 2:54 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:20 FT

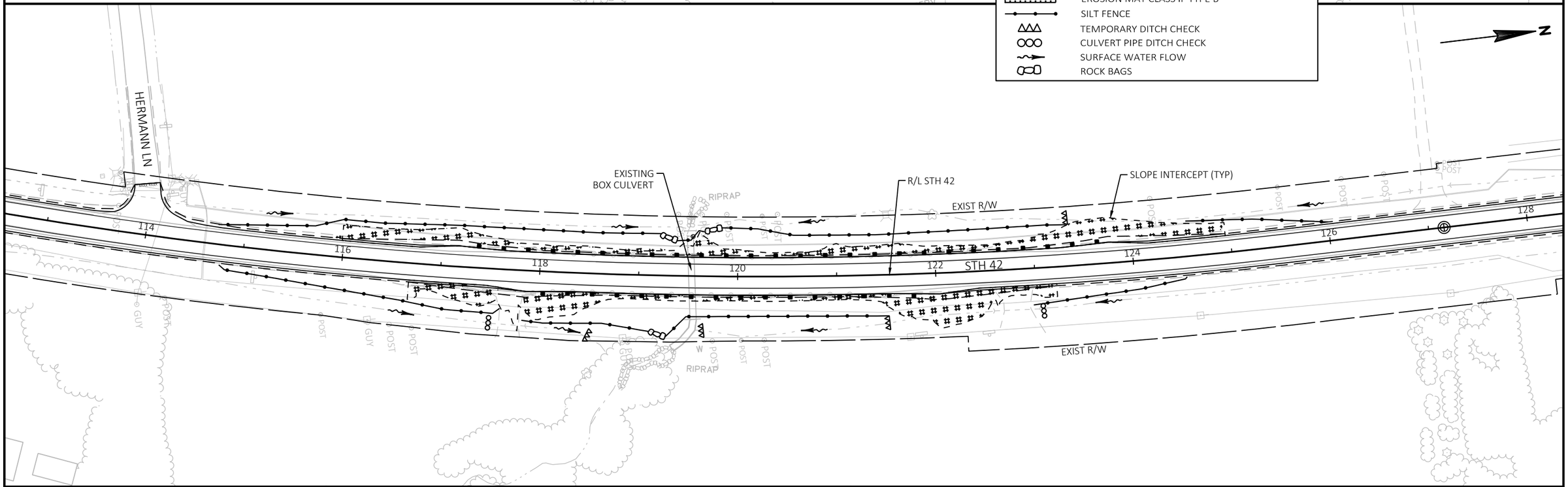
WISDOT/CADDS SHEET 42

2



LEGEND

- EROSION MAT CLASS I TYPE A
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS II TYPE B
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW
- ROCK BAGS



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	EROSION CONTROL	SHEET 17	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-ec

PLOT DATE : 1/14/2020 2:55 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

EXISTING STRUCTURE
C-31-09

SLOPE INTERCEPT (TYP)

R/L STH 42

EXIST R/W

130 132 134 136 STH 42 138 140 142 144

EXIST R/W

TLE

LEGEND

- EROSION MAT CLASS I TYPE A
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS II TYPE B
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW
- ROCK BAGS

NUCLEAR RD

SLOPE INTERCEPT (TYP)

EXIST R/W

R/L STH 42

STH 42 154 156 158 160 162 164 166 STH 42

EXIST R/W

SIGN

ANT

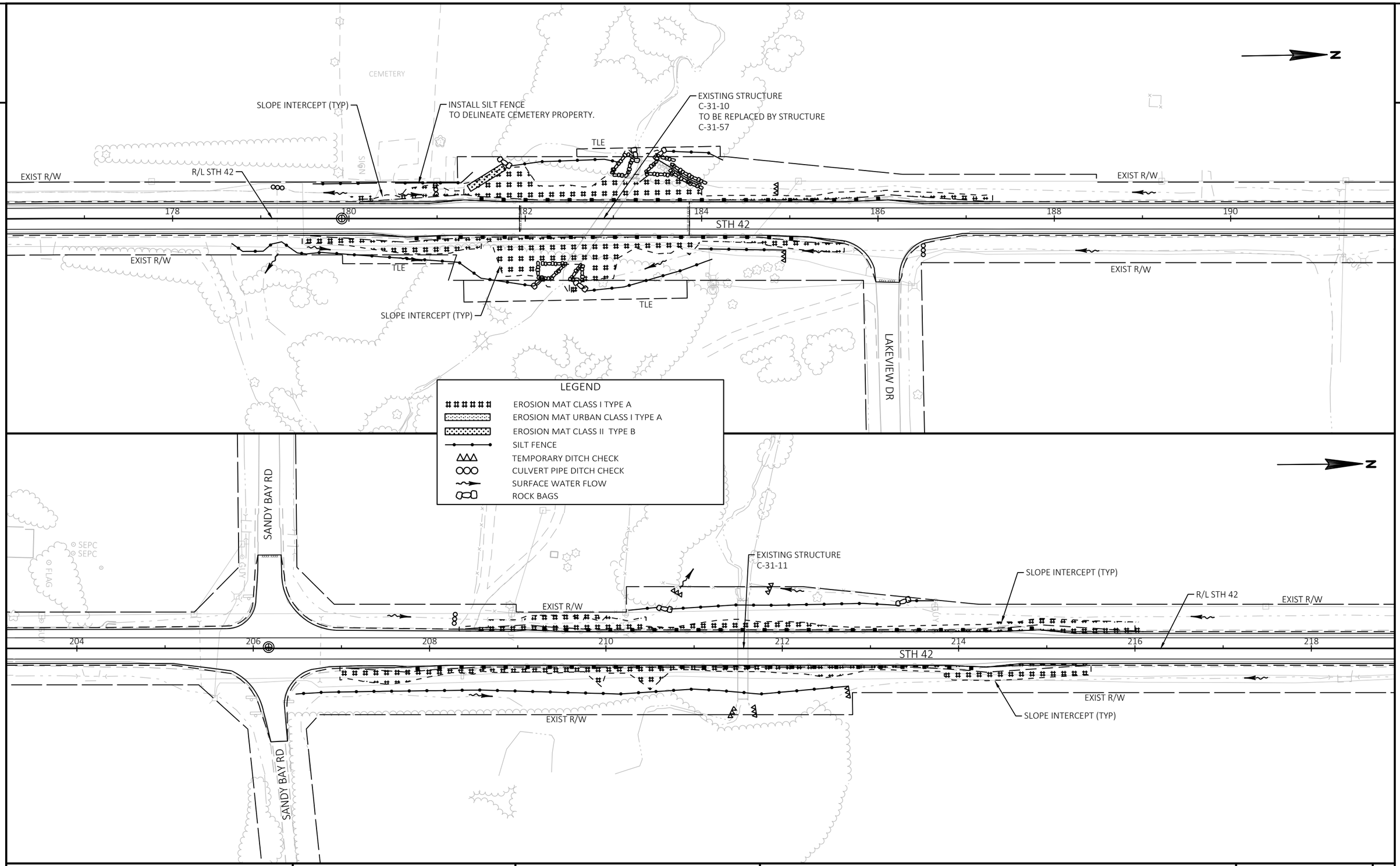
PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	EROSION CONTROL	SHEET 18	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022002-ec

PLOT DATE : 1/14/2020 2:55 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

2



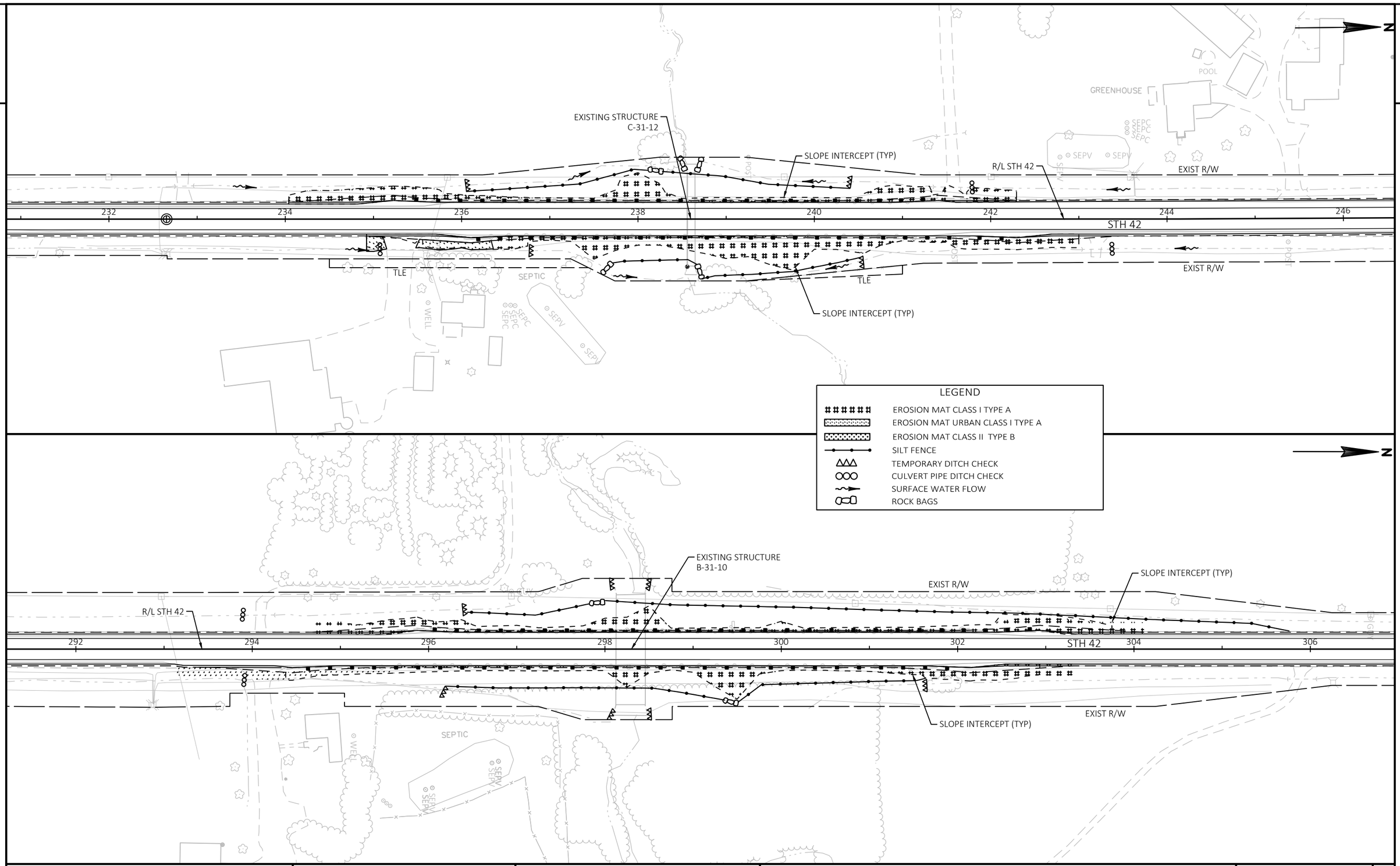
2

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	EROSION CONTROL	SHEET 19	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022003-ec

PLOT DATE : 1/14/2020 2:55 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : ############

2

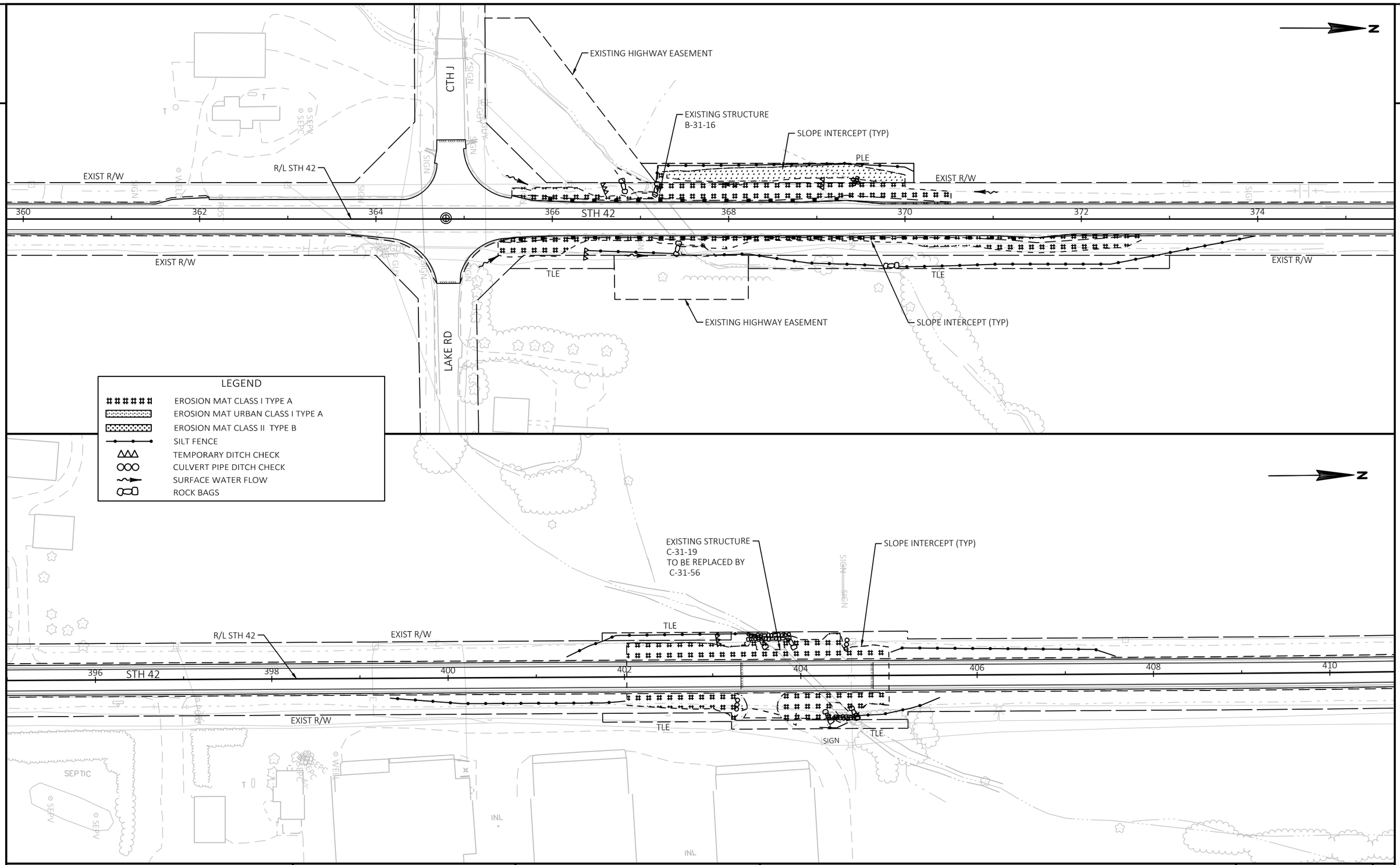


PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	EROSION CONTROL	SHEET 20	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022004-ec

PLOT DATE : 1/14/2020 2:55 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : ##########

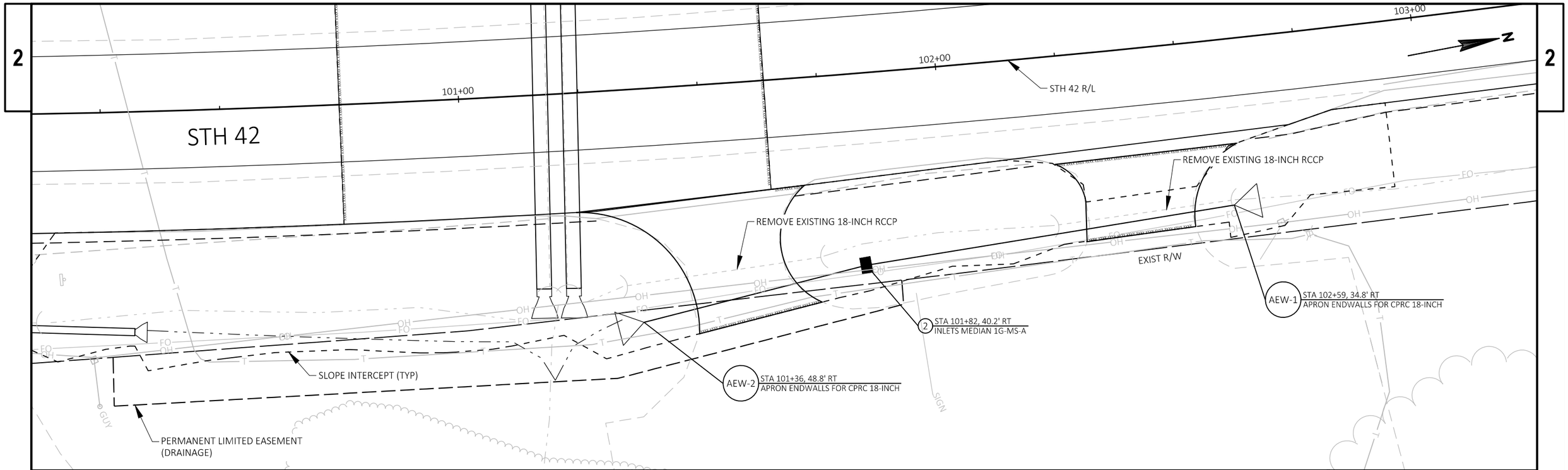
2



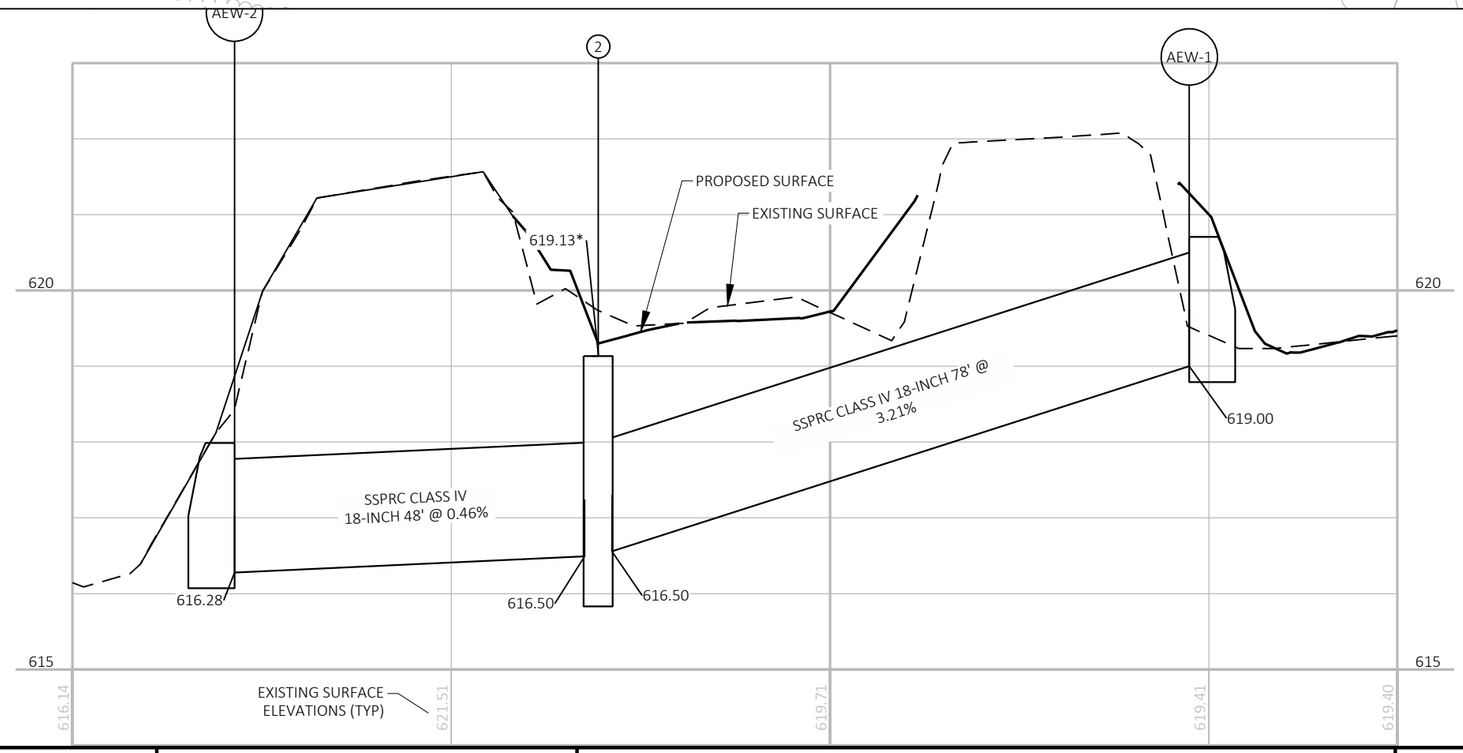
PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	EROSION CONTROL	SHEET 21	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022005-ec

PLOT DATE : 1/14/2020 2:55 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:100 FT



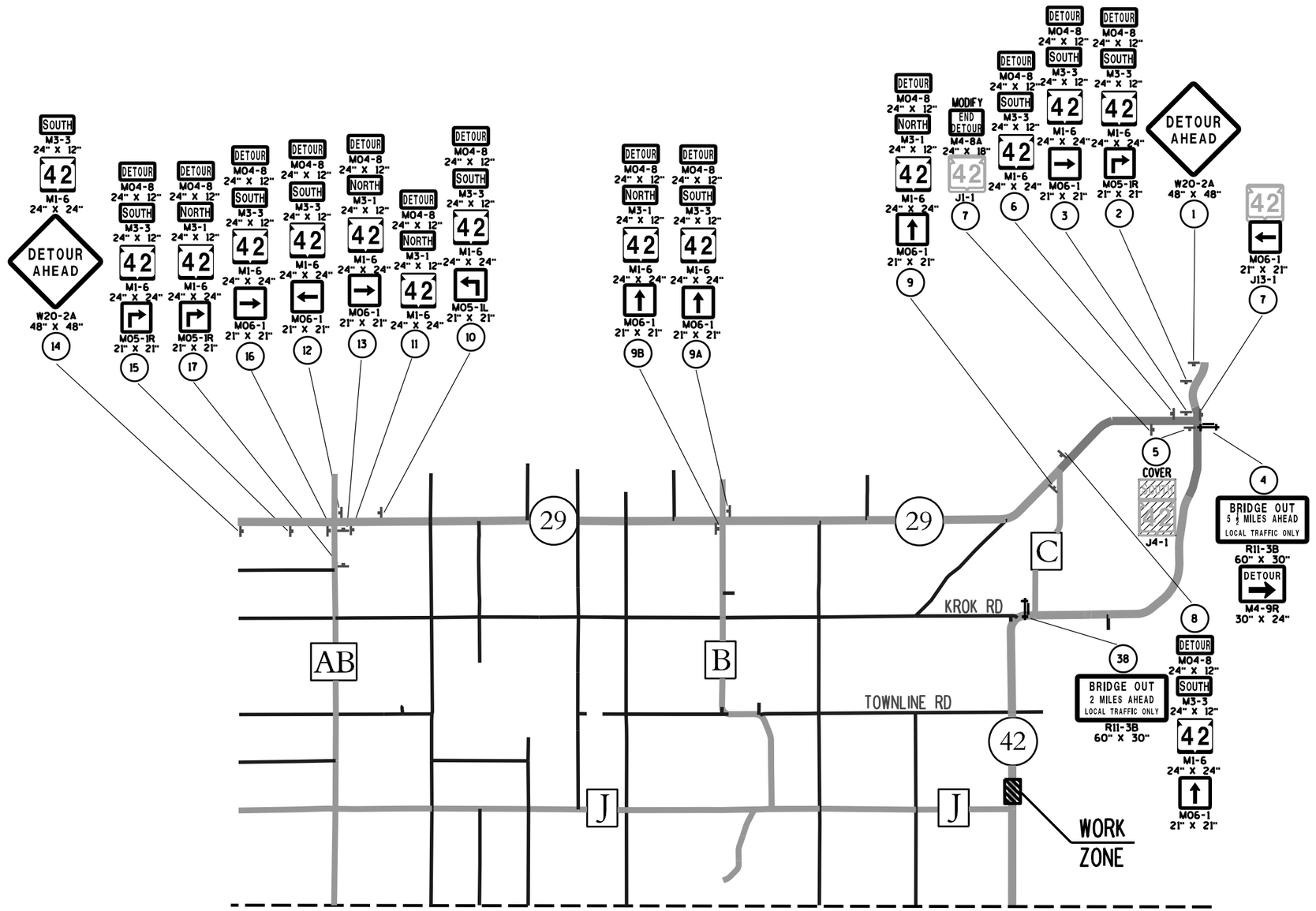
*RIM ELEVATION DEPRESSED
1-INCH BELOW PROPOSED DITCH GRADE



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	STORM SEWER	SHEET 22	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 025501-ss
PLOT DATE : 1/14/2020 2:55 PM
PLOT BY : KIRST, DOUGLAS P
PLOT NAME :
PLOT SCALE : 1 IN:20 FT

2



SEE NEXT SHEET (PAGE 2 OF 2)

LEGEND

- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

SHEET 1 OF 2

PLAN SHEET PRODUCED BY WisDOT-NE REGION

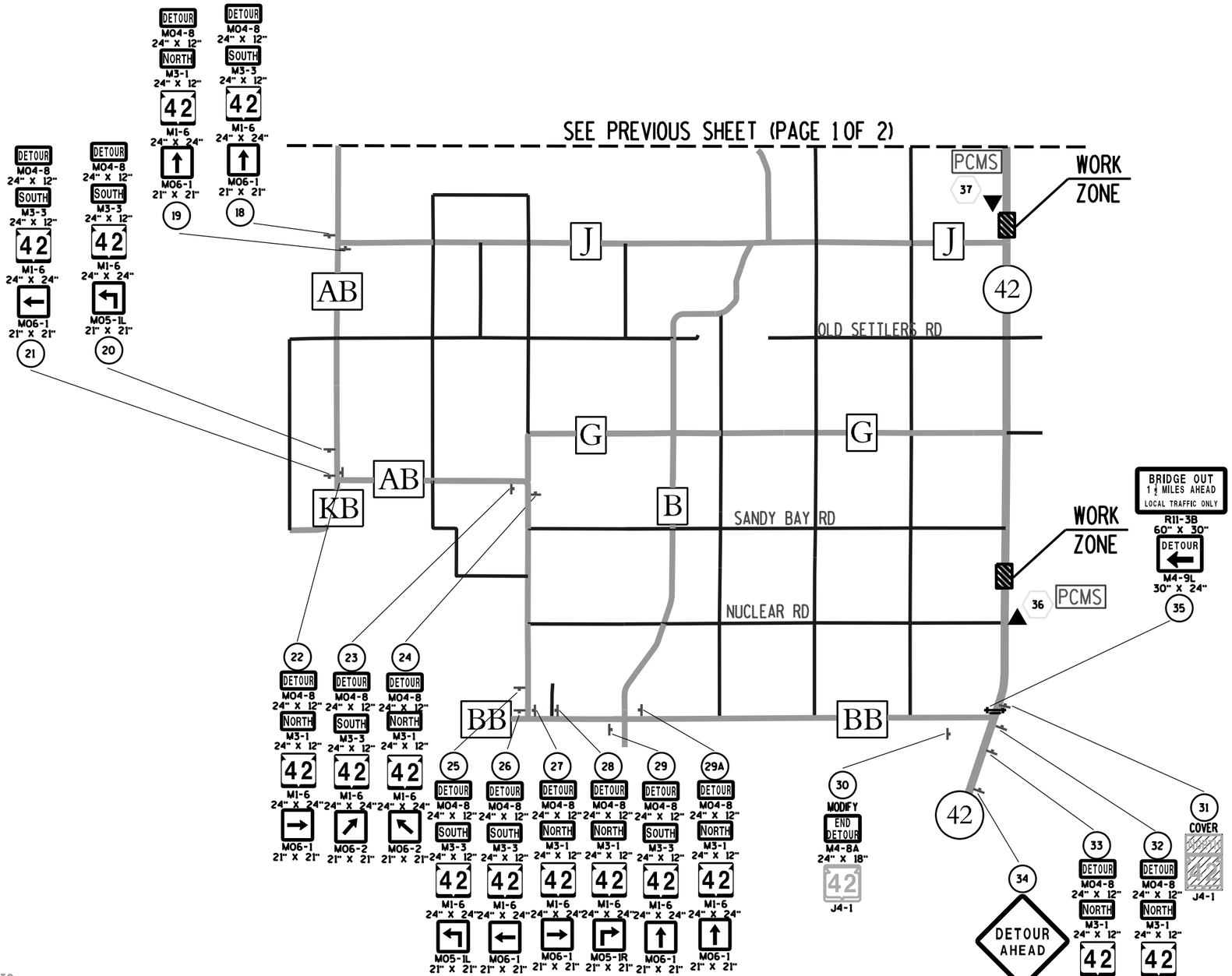
PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	DETOUR SIGNING DETAIL	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N

SEE PREVIOUS SHEET (PAGE 1 OF 2)



LEGEND

- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

SHEET 2 OF 2

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	DETOUR SIGNING DETAIL	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

1470-25-71

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	4.000	4.000
0004	201.0120	Clearing	ID	3.000	3.000
0006	201.0205	Grubbing	STA	4.000	4.000
0008	201.0220	Grubbing	ID	3.000	3.000
0010	203.0100	Removing Small Pipe Culverts	EACH	5.000	5.000
0012	203.0500.S	Removing Old Structure Over Waterway (station) 01. 404+07.50	LS	1.000	1.000
0014	203.0500.S	Removing Old Structure Over Waterway (station) 02. 182+90.25	LS	1.000	1.000
0016	204.0115	Removing Asphaltic Surface Butt Joints	SY	135.000	135.000
0018	204.0120	Removing Asphaltic Surface Milling	SY	194,740.000	194,740.000
0020	204.0165	Removing Guardrail	LF	6,675.000	6,675.000
0022	204.0185	Removing Masonry	CY	2.000	2.000
0024	205.0100	Excavation Common	CY	3,611.000	3,611.000
0026	206.2000	Excavation for Structures Culverts (structure) 01. C-31-56	LS	1.000	1.000
0028	206.2000	Excavation for Structures Culverts (structure) 02. C-31-57	LS	1.000	1.000
0030	210.2500	Backfill Structure Type B	TON	4,671.000	4,671.000
0032	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 1470-25-71	LS	1.000	1.000
0034	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	872.000	872.000
0036	213.0100	Finishing Roadway (project) 01. 1470-25-71	EACH	1.000	1.000
0038	305.0110	Base Aggregate Dense 3/4-Inch	TON	5,191.000	5,191.000
0040	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	6,395.000	6,395.000
0042	311.0115	Breaker Run	CY	214.000	214.000
0044	312.0110	Select Crushed Material	TON	210.000	210.000
0046	455.0605	Tack Coat	GAL	25,850.000	25,850.000
0048	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	2.000	2.000
0050	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0052	460.2005	Incentive Density PWL HMA Pavement	DOL	32,680.000	32,680.000
0054	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	20,914.000	20,914.000
0056	460.2010	Incentive Air Voids HMA Pavement	DOL	50,460.000	50,460.000
0058	460.5223	HMA Pavement 3 LT 58-28 S	TON	29,390.000	29,390.000
0060	460.5224	HMA Pavement 4 LT 58-28 S	TON	21,070.000	21,070.000
0062	465.0110	Asphaltic Surface Patching	TON	100.000	100.000
0064	465.0115	Asphaltic Surface Detours	TON	150.000	150.000
0066	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	20.000	20.000
0068	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	83,389.000	83,389.000
0070	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	38,649.000	38,649.000
0072	504.0100	Concrete Masonry Culverts	CY	415.000	415.000

1470-25-71

Line	Item	Item Description	Unit	Total	Qty
0074	505.0400	Bar Steel Reinforcement HS Structures	LB	54,050.000	54,050.000
0076	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	6,950.000	6,950.000
0078	516.0500	Rubberized Membrane Waterproofing	SY	62.000	62.000
0080	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	2.000	2.000
0082	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	2.000	2.000
0084	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	57.000	57.000
0086	521.3124	Culvert Pipe Corrugated Steel 24-Inch	LF	74.000	74.000
0088	521.3757	Pipe Arch Corrugated Steel 57x38-Inch	LF	4.000	4.000
0090	522.0430	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	152.000	152.000
0092	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	2.000	2.000
0094	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	4.000	4.000
0096	606.0100	Riprap Light	CY	2.000	2.000
0098	606.0300	Riprap Heavy	CY	146.000	146.000
0100	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	126.000	126.000
0102	611.0645	Inlet Covers Type MS-A	EACH	1.000	1.000
0104	611.3901	Inlets Median 1 Grate	EACH	1.000	1.000
0106	612.0700	Drain Tile Exploration	LF	20.000	20.000
0108	614.2300	MGS Guardrail 3	LF	100.000	100.000
0110	614.2330	MGS Guardrail 3 K	LF	6,664.000	6,664.000
0112	614.2610	MGS Guardrail Terminal EAT	EACH	28.000	28.000
0114	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1470-25-71	EACH	1.000	1.000
0116	619.1000	Mobilization	EACH	1.000	1.000
0118	624.0100	Water	MGAL	153.200	153.200
0120	625.0100	Topsoil	SY	1,020.000	1,020.000
0122	625.0105	Topsoil	CY	30.000	30.000
0124	625.0500	Salvaged Topsoil	SY	17,270.000	17,270.000
0126	628.1504	Silt Fence	LF	9,400.000	9,400.000
0128	628.1520	Silt Fence Maintenance	LF	2,360.000	2,360.000
0130	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
0132	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0134	628.2002	Erosion Mat Class I Type A	SY	17,290.000	17,290.000
0136	628.2006	Erosion Mat Urban Class I Type A	SY	1,470.000	1,470.000
0138	628.2023	Erosion Mat Class II Type B	SY	40.000	40.000
0140	628.7010	Inlet Protection Type B	EACH	1.000	1.000
0142	628.7504	Temporary Ditch Checks	LF	330.000	330.000
0144	628.7555	Culvert Pipe Checks	EACH	27.000	27.000
0146	628.7570	Rock Bags	EACH	456.000	456.000

1470-25-71

Line	Item	Item Description	Unit	Total	Qty
0148	629.0210	Fertilizer Type B	CWT	11.800	11.800
0150	630.0130	Seeding Mixture No. 30	LB	337.000	337.000
0152	630.0500	Seed Water	MGAL	420.000	420.000
0154	633.5200	Markers Culvert End	EACH	7.000	7.000
0156	638.2102	Moving Signs Type II	EACH	8.000	8.000
0158	642.5401	Field Office Type D	EACH	1.000	1.000
0160	643.0300	Traffic Control Drums	DAY	1,470.000	1,470.000
0162	643.0420	Traffic Control Barricades Type III	DAY	1,982.000	1,982.000
0164	643.0705	Traffic Control Warning Lights Type A	DAY	3,026.000	3,026.000
0166	643.0900	Traffic Control Signs	DAY	21,645.000	21,645.000
0168	643.0920	Traffic Control Covering Signs Type II	EACH	2.000	2.000
0170	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0172	643.5000	Traffic Control	EACH	1.000	1.000
0174	645.0105	Geotextile Type C	SY	704.000	704.000
0176	645.0120	Geotextile Type HR	SY	315.000	315.000
0178	645.0130	Geotextile Type R	SY	7.000	7.000
0180	646.1020	Marking Line Epoxy 4-Inch	LF	51,805.000	51,805.000
0182	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	101,709.000	101,709.000
0184	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	976.000	976.000
0186	648.0100	Locating No-Passing Zones	MI	10.240	10.240
0188	649.0105	Temporary Marking Line Paint 4-Inch	LF	130,054.000	130,054.000
0190	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	45,191.000	45,191.000
0192	650.4000	Construction Staking Storm Sewer	EACH	3.000	3.000
0194	650.4500	Construction Staking Subgrade	LF	6,935.000	6,935.000
0196	650.5000	Construction Staking Base	LF	6,935.000	6,935.000
0198	650.6000	Construction Staking Pipe Culverts	EACH	2.000	2.000
0200	650.6500	Construction Staking Structure Layout (structure) 01. C-31-56	LS	1.000	1.000
0202	650.6500	Construction Staking Structure Layout (structure) 02. C-31-57	LS	1.000	1.000
0204	650.8000	Construction Staking Resurfacing Reference	LF	52,286.000	52,286.000
0206	650.9920	Construction Staking Slope Stakes	LF	7,120.000	7,120.000
0208	690.0150	Sawing Asphalt	LF	853.000	853.000
0210	715.0502	Incentive Strength Concrete Structures	DOL	2,490.000	2,490.000
0212	740.0440	Incentive IRI Ride	DOL	19,806.000	19,806.000
0214	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	3,040.000	3,040.000
0216	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,400.000	2,400.000
0218	SPV.0035	Special 01. Foundation Backfill	CY	320.000	320.000
0220	SPV.0060	Special 01. Apron Endwalls for Pipe Arch Salvaged 57x38-Inch	EACH	1.000	1.000

1470-25-71

Line	Item	Item Description	Unit	Total	Qty
0222	SPV.0105	Special 01. Remove Excess Material from Structure B-31-16	LS	1.000	1.000
0224	SPV.0180	Special 01. Farmland Salvaged Topsoil	SY	450.000	450.000

3

CLEARING AND GRUBBING

STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA	201.0120 CLEARING ID	201.0220 GRUBBING ID
181+52	-	184+10	STH 42	4	4	---	---
404+35			STH 42, 46' RT	---	---	3	3
			PROJECT TOTAL	4	4	3	3

REMOVING DRAINAGE

STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERT EACH	204.0185 REMOVING MASONRY CY	REMARKS
99+96	STH 42 RT	1	---	DWY PIPE - 18-INCH CMCP
101+16	STH 42	2	2	CROSS DRAIN - 30-INCH CMCP
101+56	STH 42 RT	1	---	DWY PIPE - 18-INCH RCCP
102+41	STH 42 RT	1	---	DWY PIPE - 18-INCH RCCP
403+55	STH 42 RT	1	---	DWY PIPE- 24-INCH CMCP
	PROJECT TOTAL	5	2	

CMCP = CORRUCATED METAL CIRCULAR PIPE
RCCP =REINFORCED CONCRETE CIRCULAR PIPE

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

STATION	TO	STATION	LOCATION	211.0400 STA
92+00	-	98+00	STH 42 LT	7
100+00	-	117+00	STH 42 LT	18
122+00	-	136+00	STH 42 LT	15
141+00	-	149+00	STH 42 LT	9
154+00	-	158+00	STH 42 LT	5
163+00	-	182+00	STH 42 LT	20
185+00	-	200+00	STH 42 LT	16
214+00	-	235+00	STH 42 LT	22
252+00	-	257+00	STH 42 LT	6
259+00	-	296+00	STH 42 LT	38
302+00	-	311+00	STH 42 LT	10
312+00	-	361+00	STH 42 LT	50
369+00	-	417+00	STH 42 LT	49
418+00	-	461+00	STH 42 LT	44
483+00	-	510+00	STH 42 LT	28
512+00	-	529+00	STH 42 LT	18
531+00	-	597+00	STH 42 LT	67
599+00	-	612+00	STH 42 LT	14
			SUBTOTAL LT	436
91+00	-	99+00	STH 42 RT	9
102+00	-	116+00	STH 42 RT	15
121+00	-	136+00	STH 42 RT	16
141+00	-	148+00	STH 42 RT	8
153+00	-	157+00	STH 42 RT	5
162+00	-	181+00	STH 42 RT	20
186+00	-	204+00	STH 42 RT	19
213+00	-	236+00	STH 42 RT	24
241+00	-	257+00	STH 42 RT	17
260+00	-	293+00	STH 42 RT	34
301+00	-	310+00	STH 42 RT	10
313+00	-	363+00	STH 42 RT	51
369+00	-	417+00	STH 42 RT	49
419+00	-	460+00	STH 42 RT	42
483+00	-	503+00	STH 42 RT	21
514+00	-	520+00	STH 42 RT	7
522+00	-	540+00	STH 42 RT	19
542+00	-	567+00	STH 42 RT	26
569+00	-	612+00	STH 42 RT	44
			SUBTOTAL RT	436
			PROJECT TOTAL	872

SAW CUTS AND BUTT JOINTS

STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	690.015 SAWING ASPHALT LF	REMARKS
89+86	STH 42	9	39	BEGINNING OF PROJECT
99+67	STH 42 LT	8	35	CTH BB
100+75	STH 42	---	51	CULVERT REPLACEMENT
101+60	STH 42 RT	---	27	GIB'S SOUTH DWY
101+64	STH 42	---	55	CULVERT REPLACEMENT
102+41	STH 42 RT	---	23	GIB'S NORTH DWY
113+95	STH 42 LT	6	23	HERMAN LN
153+55	STH 42 LT	6	26	NUCLEAR RD
181+93	STH 42	---	29	C-31-57
183+86	STH 42	---	37	C-31-57
186+11	STH 42 RT	6	37	LAKEVIEW DR
206+18	STH 42 LT	6	26	SANDY BAY RD
259+11	STH 42 RT	5	26	LAKE SHORE RD
259+13	STH 42 LT	6	28	LAKE SHORE RD
311+94	STH 42 RT	5	24	OLD SETTLERS RD
311+95	STH 42 LT	3	23	OLD SETTLERS RD
364+82	STH 42 RT	6	25	LAKE RD
364+85	STH 42 LT	7	26	CTH J
403+32	STH 42	---	32	C-31-56
404+82	STH 42	---	30	C-31-56
418+16	STH 42 RT	7	30	TOWNLINE RD
418+22	STH 42 LT	6	30	TOWNLINE RD
470+93	STH 42 LT	8	26	KROK RD
480+97	STH 42 LT	7	36	CTH C
508+01	STH 42 RT	6	32	APPLE LN
512+15	STH 42 LT	5	25	HOSPITAL RD
521+13	STH 42 RT	6	25	MILE RD
568+19	STH 42 RT	8	26	LAKESHORE RD
612+73	STH 42	9	---	END OF PROJECT
	PROJECT TOTAL	135	853	

REMOVING ASPHALTIC SURFACE MILLING

STATION	TO	STATION	LOCATION	204.0120 SY	REMARKS
89+88	-	100+75	STH 42	4700	BEGINNING OF PROJECT TO CULVERT PIPE REPLACEMENT
101+64	-	183+86	STH 42	30040	CULVERT PIPE REPLACEMENT TO C-31-57
183+86	-	310+69	STH 42	47810	C-31-57 TO OLD SETTLERS RD
310+69	-	403+32	STH 42	33230	OLD SETTLERS RD TO C-31-56
404+82	-	540+50	STH 42	53160	C-31-56 TO LOVERS LANE
540+50	-	612+70	STH 42	25800	LOVERS LANE TO END OF PROJECT
			PROJECT TOTAL	194,740	

REMOVING GUADRAIL

STATION	TO	STATION	LOCATION	204.0165 LF
116+66	-	121+50	STH 42 RT	457
117+79	-	122+59	STH 42 LT	478
136+13	-	140+91	STH 42 RT	478
136+25	-	141+40	STH 42 LT	200
180+65	-	185+18	STH 42 RT	453
181+34	-	186+12	STH 42 LT	478
208+42	-	214+08	STH 42 RT	566
209+10	-	214+63	STH 42 LT	533
236+00	-	241+41	STH 42 LT	541
236+11	-	241+26	STH 42 RT	516
295+28	-	301+56	STH 42 RT	628
295+86	-	302+14	STH 42 LT	628
265+56	-	369+09	STH 42 RT	353
265+69	-	369+34	STH 42 LT	366
			PROJECT TOTAL	6,675

DIVISION DIVISION 1	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	 EBS EXCAVATION (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	REDUCED EBS IN FILL (9) FACTOR 0.80	SPV.0035.01 FOUNDATION BACKFILL EXPANDED EBS BACKFILL (11) FACTOR 1.30	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.25	MASS ORDINATE +/- (14)	WASTE	COMMENT:
GIBS	100+00/103+03	STH 42	440	246	90	350	197	320	225	281	315	315	(7)
BG2	115+88/125+05	STH 42	223	0	0	223	0	0	168	210	328	328	
BG3	132+72/142+85	STH 42	313	0	0	313	0	0	147	184	457	457	
PIPE EXTENSION	160+00/160+50	STH 42	0	0	0	0	0	0	15	19	438	438	(6)
BG4/C-31-57	179+37/187+40	STH 42	912	0	135	777	0	0	322	403	813	813	
BG5	206+88/216+20	STH 42	243	0	0	243	0	0	70	88	968	968	
BG6	233+94/243+58	STH 42	226	0	0	226	0	0	144	180	1,014	1,014	
BG7	293+05/304+20	STH 42	310	0	0	310	0	0	60	75	1,249	1,249	
BG8	365+28/372+78	STH 42	186	0	0	186	0	0	343	429	1,007	1,007	
C-31-56	401+93/405+10	STH 42	512	0	86	426	0	0	153	191	1,241	1,241	
DIVISION 1 SUBTOTAL			3,365	246	311	3,054	197	320	1,647	2,059	7,830	7,830	SEE NOTE 15
GRAND TOTAL			3,365	246	311	3,054	197	320	1,647	2,059	7,830	7,830	
TOTAL COMMON EXC			3,611										

NOTES:

(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(3) EBS EXCAVATION TO BE BACKFILLED WITH FOUNDATION BACKFILL.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL TO BE HAULED OFFSITE.

(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(6) USE ACCEPTABLE WASTE AS FILL FROM OTHER EARTHWORK AREAS, GRADE TO MATCH CULVERT PIPE EXTENSION

(7) INCLUDES QTY FOR DRIVEWAY EXCAVATION AT GIB'S (NORTH AND SOUTH DWYS)

(9) REDUCED EBS IN FILL - EXCAVATED EBS MATERIAL IS USUABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80

(11) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH FOUNDATION BACKFILL MATERIAL. EBS BACKFILL FACTOR = 1.30. ITEM SPV.0035.01 FOUNDATION BACKFILL.

(13) EXPANDED FILL FACTOR = 1.25. EXPANDED FILL = UNEXPANDED FILL * FILL FACTOR

(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

MASS ORDINATE = [(CUT - SALVAGED PAVT) - ((FILL - REDUCED EBS IN FILL) * FILL FACTOR)]

3

BASE AGGREGATE DENSE 3/4-INCH

STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	624.0100* WATER MGAL	REMARKS
89+86	-	99+14	STH 42 LT	52	1.0	
100+46	-	102+50	STH 42 LT	8	0.1	GIBS
101+64	-	113+82	STH 42 LT	52	1.0	
114+08	-	115+98	STH 42 LT	10	0.2	
115+98	-	124+95	STH 42 LT	93	0.9	BG2
124+95	-	134+41	STH 42 LT	40	0.8	
134+41	-	142+59	STH 42 LT	87	0.9	BG3
142+59	-	152+99	STH 42 LT	44	0.9	
153+53			STH 42 LT	1	0.0	NUCLEAR RD
154+21	-	180+12	STH 42 LT	108	2.2	
180+12	-	187+30	STH 42 LT	97	1.0	BG4/C-31-57
187+30	-	206+05	STH 42 LT	83	1.7	
206+31	-	208+33	STH 42 LT	12	0.2	
208+33	-	216+10	STH 42 LT	79	0.8	BG5
216+10	-	234+04	STH 42 LT	77	1.5	
234+04	-	242+29	STH 42 LT	83	0.8	BG6
242+29	-	257+24	STH 42 LT	62	1.2	
258+96	-	259+31	STH 42 LT	7	0.1	CTH G
259+78	-	294+69	STH 42 LT	147	2.9	
294+69	-	304+12	STH 42 LT	96	1.0	BG7
304+12	-	311+82	STH 42 LT	35	0.7	
312+08	-	362+11	STH 42 LT	216	4.3	
364+84			STH 42 LT	5	0.1	CTH J
365+54	-	370+52	STH 42 LT	55	0.5	BG8
370+52	-	403+32	STH 42 LT	79	1.6	
403+32	-	404+82	STH 42 LT	13	0.1	C-31-56
404+82	-	417+74	STH 42 LT	56	1.1	
418+19			STH 42 LT	5	0.1	TOWNLINE RD
418+89	-	470+77	STH 42 LT	221	4.4	TOWNLINE RD TO KROK RD
471+08	-	478+52	STH 42 LT	33	0.7	KROK RD TO CTH C
481+74	-	511+39	STH 42 LT	126	2.5	CTH C TO HOSPITAL RD
511+80			STH 42 LT	10	0.1	HOSPITAL RD
512+64	-	529+75	STH 42 LT	40	0.8	
531+24	-	568+29	STH 42 LT	158	3.2	
568+29	-	597+87	STH 42 LT	127	2.5	
599+11	-	612+72	STH 42 LT	59	1.2	
			SUBTOTAL LEFT	2,475	43.2	

BASE AGGREGATE DENSE 3/4-INCH

STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	624.0100* WATER MGAL	REMARKS
89+87		100+75	STH 42 RT	56	1.1	
100+75		102+72	STH 42 RT	17	0.2	GIBS
102+72		116+69	STH 42 RT	60	1.2	
116+69		123+21	STH 42 RT	66	0.7	BG2
123+21		132+82	STH 42 RT	41	0.8	
132+82		142+75	STH 42 RT	99	1.0	BG3
142+75		151+73	STH 42 RT	34	0.7	
151+73		179+47	STH 42 RT	119	2.4	
179+47		185+98	STH 42 RT	83	0.8	BG4/C-31-57
186+24		206+20	STH 42 RT	53	1.1	
206+39		215+50	STH 42 RT	93	0.9	BG5
215+50		234+93	STH 42 RT	83	1.7	
234+93		243+48	STH 42 RT	90	0.9	BG6
243+48		258+99	STH 42 RT	68	1.4	
259+23		293+39	STH 42 RT	148	3.0	
293+39		303+33	STH 42 RT	96	1.0	BG7
303+33		311+82	STH 42 RT	39	0.8	
312+05		364+69	STH 42 RT	229	4.6	
364+95		372+68	STH 42 RT	77	0.8	BG8
372+68		403+32	STH 42 RT	131	2.6	
403+32		484+82	STH 42 RT	168	1.7	C-31-56
404+82		417+49	STH 42 RT	52	1.0	
418+16			STH 42 RT	3	0.0	TOWNLINE RD
418+74		470+90	STH 42 RT	223	4.5	TOWNLINE RD TO KROK RD
470+90		503+77	STH 42 RT	140	2.8	
505+03		507+89	STH 42 RT	13	0.3	
508+01			STH 42 RT	2	0.0	APPLE LN
510+50		520+50	STH 42 RT	41	0.8	APPLE LN TO MILE RD
521+12			STH 42 RT	1	0.0	MILE RD
521+65		542+01	STH 42 RT	91	1.8	MILE RD TO LOVERS LN
542+12		567+59	STH 42 RT	111	2.2	LOVERS LN TO LAKESHORE RD
568+29			STH 42 RT	1	0.0	LAKESHORE RD
568+73		612+72	STH 42 RT	189	3.8	LAKESHORE RD TO END OF PROJECT
			SUBTOTAL RIGHT	2,716	46.4	
			PROJECT TOTAL	5,191	*	

*PROJECT TOTAL SHOWN IN BASE AGGREGATE DENSE 1 1/4-INCH TABLE

3

BASE AGGREGATE DENSE 1 1/4-INCH

STATION	TO	STATION	LOCATION	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100* WATER MGAL	REMARKS
100+00	-	103+03	STH 42	708	7.1	GIBS
115+88	-	125+05	STH 42	674	6.7	BG2
132+72	-	142+85	STH 42	642	6.4	BG3
179+37	-	187+40	STH 42	1316	13.2	BG4/C-31-57
206+88	-	216+20	STH 42	590	5.9	BG5
233+94	-	243+58	STH 42	498	5.0	BG6
293+05	-	304+20	STH 42	590	5.9	BG7
365+28	-	372+78	STH 42	482	4.8	BG8
401+93	-	405+10	STH 42	818	8.2	C-31-56
101+53 & 102+41			STH 42 RT	41	0.4	GIBS DRIVEWAYS
THROUGHOUT PROJECT			STH 42	---	89.6*	FROM BASE AGG. DENSE 3/4-INCH TABLE
			PROJECT TOTAL	6,395	153.2	

*QUANTITY CALCULATED ELSEWHERE IN PLAN

SELECT CRUSHED MATERIAL

STATION	LOCATION	312.0110 SELECT CRUSHED MATERIAL TON	REMARKS
118+90	C-31-57	125	(1)
404+08	C-31-56	85	(1)
	PROJECT TOTAL	210	

(1) SEE EXCAVATION PROTETION AT BOX CULVERTS CONSTRUCTION DETAIL

3

ASPHALT ITEMS

STATION		STAION	LOCATION	455.0605 TACK COAT GAL	460.2007 INCENTIVE DENSITY HMA PAVEMENT LONGITUDINAL JOINTS DOL	HMA PAVEMENT 3 LT 58-28 S 460.5223 TON	PWL DENSITY INCENTIVE TON*	PWL AIR VOIDS TON**	HMA PAVEMENT 4 LT 28-28 S 460.5224 TON	PWL DENSITY INCENTIVE TON*	PWL AIR VOIDS TON**	REMARKS
89+87	-	100+75	STH 42	570	435	640	160	640	460	110	460	BOP TO GIBS
100+75	-	101+64	STH 42	60	36	100	50	100	50	10	50	GIBS
101+64	-	114+08	STH 42	580	498	650	180	650	470	130	470	GIBS TO HERMAN LN
114+08	-	153+53	STH 42	1,920	1,578	2,180	570	2,180	1,570	410	1,570	HERMAN LN TO NUCLEAR RD
153+53	-	181+93	STH 42	1,390	1,136	1,570	410	1,570	1,130	300	1,130	NUCLEAR RD TO C-31-57
181+93	-	183+86	STH 42	100	77	160	100	160	80	20	80	C-31-57
183+86	-	206+17	STH 42	1,080	892	1,220	320	1,220	880	230	880	C-31-57 TO SANDY BAY RD
206+17	-	259+13	STH 42	2,560	2,118	2,910	770	2,910	2,090	550	2,090	SANDY BAY RD TO CTH G
259+13	-	311+95	STH 42	2,480	2,113	2,810	770	2,810	2,030	550	2,030	CTH G TO OLD SETTLERS RD
311+95	-	403+32	STH 42	4,220	3,655	4,780	1,330	4,780	3,450	960	3,450	OLD SETTLERS RD TO C-31-56
403+32	-	404+82	STH 42	70	60	110	80	110	60	20	60	C-31-56
404+82	-	470+90	STH 42	3,180	2,643	3,610	960	3,610	2,600	690	2,600	C-31-56 TO KROK RD
470+90	-	508+06	STH 42	1,880	1,486	2,130	540	2,130	1,530	390	1,530	KROK RD TO APPLE LN
508+06	-	541+46	STH 42	1,620	1,336	1,840	480	1,840	1,320	350	1,320	APPLE LN TO LOVERS LN
541+46	-	612+72	STH 42	3,280	2,850	3,710	1,030	3,710	2,670	740	2,670	LOVERS LN TO EOP
99+99			STH 42 LT	30	---	40	---	40	30	---	30	CTH BB
148+08			STH 42 LT	20	---	20	---	20	10	---	10	HERMAN LN
153+53			STH 42 LT	40	---	40	---	40	30	---	30	NUCLEAR RD
186+11			STH 42 RT	30	---	30	---	30	20	---	20	LAKEVIEW RD
206+17			STH 42 LT	50	---	50	---	50	40	---	40	SANDY BAY RD WEST
206+17			STH 42 RT	40	---	40	---	40	30	---	30	SANDY BAY RD EAST
259+13			STH 42 LT	60	---	70	---	70	50	---	50	CTH G
259+13			STH 42 RT	40	---	40	---	40	30	---	30	LAKE SHORE RD (SOUTH)
311+91			STH 42 RT	30	---	40	---	40	30	---	30	OLD SETTLERS RD EAST
311+95			STH 42 LT	40	---	40	---	40	30	---	30	OLD SETLLERS RD WEST
364+83			STH 42 RT	40	---	40	---	40	30	---	30	LAKE RD
364+84			STH 42 LT	40	---	50	---	50	30	---	30	CTH J
418+19			STH 42 LT	40	---	50	---	50	30	---	30	TOWNLINE ROAD WEST
418+19			STH 42 RT	40	---	50	---	50	30	---	30	TOWNLINE ROAD EAST
470+90			STH 42 LT	50	---	60	---	60	40	---	40	KROK RD
480+94			STH 42 LT	40	---	40	---	40	30	---	30	CTH C
508+06			STH 42 RT	30	---	30	---	30	20	---	20	APPLE LN
511+80			STH 42 LT	70	---	80	---	80	60	---	60	HOSPITAL RD
521+12			STH 42 RT	30	---	40	---	40	30	---	30	MILE RD
541+46			STH 42 RT	60	---	70	---	70	50	---	50	LOVERS LN
568+29			STH 42 RT	40	---	50	---	50	30	---	30	LAKESHORE RD (NORTH)
PROJECT TOTAL				25,850	20,914	29,390	7,750	29,390	21,070	5,460	21,070	

* TONNAGE IS ELIGIBLE FOR INCENTIVE DENSITY PWL 460.2005.
**TONNAGE IS ELIGIBLE FOR INCENTIVE AIR VOIDS 460.2010 WHILE DENSITY IS TESTED FOR ACCEPTANCE IN THESE AREAS.

NOTE:
CORING LOCATIONS FOR LOWER LAYER DENSITY TESTING:
STA. 100+75 - 101+64
STA. 124+25 - 134+17
STA. 181+93 - 183+86
STA. 403+32 - 404+82
STA. 561+12 - 566+11

3

ASPHALT DRIVEWAYS

STATION	LOCATION	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	REMARKS
101+53	STH 42 RT	14	GIBS SOUTH ENTRANCE
102+41	STH 42 RT	6	GIBS NORTH ENTRANCE
	PROJECT TOTAL	20	

NOTE: DRIVEWAY EXCAVATION PAID UNDER STORM SEWER AND COMMON EXCAVATION ITE
NOTE 2: DRIVEWAYS PAVED AS 3-INCHES OF ASPHALT OVER 6-INCHES OF BASE AGGREGATE [

MISC. ASPHALT ITEMS

LOCATION	HMA PERCENT WITHIN LIMITS TEST STRIPS 460.0105.S VOLUMETRICS EACH	HMA PERCENT WITHIN LIMITS TEST STRIPS 460.0110.S DENSITY TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0115 ASPHALTIC SURFACE DETOURS TON	REMARKS
STH 42	2	2	---	---	ONE STRIP FOR UPPER LAYER, ONE FOR LOWER LAYER, SEE NOTE BELOW
STH 42	---	---	100	---	FOR MINRO REPAIRS OF STH 42 DURING CONSTRUCTION
DETOUR	---	---	---	150	FOR MINOR REPAIRS OF DETOUR ROUTE
PROJECT TOTALS	2	2	100	150	

NOTE:
AREAS THAT LOWER LAYER OF HMA IS EXEMPT FROM PWL DENSITY TESTING:
STA. 100+75 - 101+64
STA. 124+25 - 134+17
STA. 182+15 - 183+65
STA. 403+32 - 404+82
STA. 561+12 - 566+11
LOWER LAYER DENSITY WITHIN THESE LOCATIONS WILL BE VERIFIED BY CORRING

3

CULVERT PIPES

STATION	LOCATION	THICKNESS	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	521.1024 APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH EACH	521.3118 CULVERT PIPE CORRUGATED STEEL 18-INCH LF	521.3124 CULVERT PIPE CORRUGATED STEEL 24-INCH LF	521.3757 PIPE ARCH CORRUGATED STEEL 57x38 LF	522.0430 CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	SPV.0060.01 APRON ENDWALLS FOR PIPE ARCH SALVAGED 57x38-INCH EACH	REMARKS
100+03	STH 42 RT	0.064	2	---	57	---	---	---	---	---	---	SEE PLAN DETAIL
101+17	STH 42	RC	---	---	---	---	---	76	2	1	---	SEE PLAN DETAIL
101+23	STH 42	RC	---	---	---	---	---	76	2	1	---	SEE PLAN DETAIL
160+29	STH 42 LT	0.079	---	---	---	---	4	---	---	---	1	
403+42	STH 42 RT	0.064	---	2	---	74	---	---	---	---	---	SEE PLAN & PROFILE
PROJECT TOTAL			2	2	57	74	4	152	4	2	1	

STORM SEWER

STRUCTURE	STATION	LOCATION	PIPE INFORMATION INLET	PIPE INFORMATION DISCHARGE	PIPE INFORMATION SLOPE	STRUCTURE INFORMATION RIM	STRUCTURE INFORMATION INVERT	STRUCTURE INFORMATION DEPTH	522.1018 APRON ENDWALS FOR CULVERT PIPE REINFORCED CONRETE 18-INCH EACH	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	611.0645 INLET COVERS TYPE MS-A EACH	611.3901 INLET MEDIAN 1 GRATE EACH	650.4000 CONSTRUCTION STAKING STORM SEWER	REMARKS
AEW-1	102+65	STH 42, 34.4' RT	---	---	---	---	619.00	---	1	---	---	---	1	(1)
AEW-1 TO 2	102+65 - 101+82	STH 42 RT	619.00	616.50	.0321	---	---	---	---	78	---	---	---	
2	101+82	STH 42, 40.2' RT	---	---	---	619.22	616.50	2.72	---	---	1	1	1	
2 TO AEW-2	101+82 - 101+30	STH 42 RT	616.50	616.28	.0046	---	---	---	---	48	---	---	---	
AEW-2	101+30	STH 42, 49.9' RT	---	---	---	---	616.25	---	1	---	---	---	1	(1)
		PROJECT TOTAL							2	126	1	1	3	

(1) INVERT ELEVATION AND STATION OFFSET MEASURED FROM CONNECTING PIPE'S INVERT

3

SHOULDER RUMBLE STRIPS

STATION	TO	STATION	LOCATION	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS TYPE 1 LF
90+80	-	97+90	STH 42 LT	710
102+88	-	105+09	STH 42 LT	221
105+80	-	106+18	STH 42 LT	38
106+85	-	113+17	STH 42 LT	631
115+30	-	151+50	STH 42 LT	3,617
156+70	-	157+71	STH 42 LT	100
157+71	-	164+23	STH 42 LT	653
164+23	-	180+03	STH 42 LT	1,580
180+81	-	199+00	STH 42 LT	1,819
199+77	-	200+42	STH 42 LT	65
202+28	-	202+78	STH 42 LT	50
203+46	-	204+67	STH 42 LT	122
209+53	-	241+21	STH 42 LT	3,168
241+92	-	244+81	STH 42 LT	289
246+59	-	249+42	STH 42 LT	284
251+84	-	256+73	STH 42 LT	490
262+27	-	263+10	STH 42 LT	83
263+77	-	283+78	STH 42 LT	2,000
284+44	-	310+28	STH 42 LT	2,584
313+45	-	325+62	STH 42 LT	1,217
326+35	-	335+27	STH 42 LT	892
337+00	-	337+67	STH 42 LT	67
338+37	-	343+10	STH 42 LT	473
343+74	-	361+51	STH 42 LT	1,776
366+34	-	382+62	STH 42 LT	1,628
384+48	-	387+30	STH 42 LT	283
389+95	-	391+70	STH 42 LT	175
392+47	-	393+49	STH 42 LT	102
396+28	-	415+48	STH 42 LT	1,920
421+38	-	437+92	STH 42 LT	1,654
439+60	-	459+21	STH 42 LT	1,961
459+97	-	464+26	STH 42 LT	431
466+09	-	469+20	STH 42 LT	315
472+64	-	478+03	STH 42 LT	544
484+24	-	485+56	STH 42 LT	132
486+20	-	505+05	STH 42 LT	1,886
505+67	-	510+02	STH 42 LT	435
515+13	-	529+48	STH 42 LT	1,435
531+17	-	535+52	STH 42 LT	435
537+23	-	538+59	STH 42 LT	135
539+29	-	584+61	STH 42 LT	4,516
SUBTOTAL LT				40,914

STATION	TO	STATION	LOCATION	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS TYPE 1 LF
90+12	-	96+50	STH 42 RT	639
96+50	-	103+03	STH 42 RT	653
103+03	-	111+44	STH 42 RT	841
112+07	-	132+38	STH 42 RT	2,034
133+05	-	133+40	STH 42 RT	36
134+15	-	148+84	STH 42 RT	1,468
153+34	-	157+73	STH 42 RT	440
163+08	-	184+73	STH 42 RT	2,165
187+89	-	204+81	STH 42 RT	1,691
208+13	-	234+10	STH 42 RT	2,598
235+98	-	257+63	STH 42 RT	2,165
261+13	-	293+02	STH 42 RT	3,190
294+73	-	310+52	STH 42 RT	1,579
313+92	-	335+57	STH 42 RT	2,166
336+21	-	336+48	STH 42 RT	27
337+15	-	337+72	STH 42 RT	58
338+41	-	363+27	STH 42 RT	2,487
366+59	-	390+27	STH 42 RT	2,367
390+93	-	395+70	STH 42 RT	477
397+53	-	402+37	STH 42 RT	485
404+25	-	414+59	STH 42 RT	1,035
420+04	-	456+99	STH 42 RT	3,695
457+64	-	460+85	STH 42 RT	322
462+58	-	474+69	STH 42 RT	1,193
475+41	-	479+12	STH 42 RT	371
479+75	-	488+30	STH 42 RT	855
490+01	-	495+31	STH 42 RT	530
496+03	-	502+52	STH 42 RT	650
504+18	-	506+68	STH 42 RT	250
509+86	-	517+90	STH 42 RT	804
522+98	-	539+94	STH 42 RT	1,699
542+99	-	565+11	STH 42 RT	2,221
570+02	-	575+91	STH 42 RT	592
576+60	-	582+57	STH 42 RT	597
583+25	-	584+26	STH 42 RT	100
SUBTOTAL RT				42,476
PROJECT TOTAL				83,389

ASPHALTIC CENTERLINE RUMBLE STRIPS

STATION	TO	STATION	LOCATION	465.0475 ASPHALT CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF
90+12	-	98+00	STH 42	789
103+50	-	112+08	STH 42	858
116+08	-	150+50	STH 42	3,442
155+53	-	160+09	STH 42	456
162+09	-	184+11	STH 42	2,202
188+11	-	200+08	STH 42	1,197
202+08	-	204+17	STH 42	209
209+38	-	234+34	STH 42	2,495
236+34	-	244+45	STH 42	811
246+45	-	249+01	STH 42	256
251+74	-	257+13	STH 42	539
261+13	-	293+09	STH 42	3,196
295+09	-	309+91	STH 42	1,482
313+95	-	334+86	STH 42	2,091
336+86	-	362+83	STH 42	2,597
366+84	-	382+30	STH 42	1,546
384+30	-	386+99	STH 42	268
389+89	-	393+07	STH 42	318
397+90	-	402+56	STH 42	466
404+56	-	416+19	STH 42	1,163
420+19	-	437+53	STH 42	1,734
439+53	-	461+00	STH 42	2,147
463+00	-	463+99	STH 42	99
465+99	-	468+90	STH 42	291
472+90	-	478+94	STH 42	604
482+94	-	488+42	STH 42	548
490+42	-	502+58	STH 42	1,215
504+58	-	506+06	STH 42	148
513+80	-	519+12	STH 42	532
523+12	-	529+11	STH 42	599
531+11	-	535+11	STH 42	401
537+11	-	539+46	STH 42	235
543+46	-	566+29	STH 42	2,283
570+29	-	584+61	STH 42	1,432
PROJECT TOTAL				38,649

DRAIN TILE EXPLORATION

STATION	LOCATION	612.0700 LF	REMARKS
101+18	STH 42 RT	20	SEE PLAN DETAIL
PROJECT TOTAL		20	

3

GUADRAIL

STATION	TO	STATION	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2330 MGS GUARDRAIL 3 K LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	REMARKS
117+17	-	123+76	STH 42 LT	---	550	2	BG2
117+87	-	122+04	STH 42 RT	---	313	2	BG2
134+00	-	141+56	STH 42 RT	---	650	2	BG3
135+59	-	141+41	STH 42 LT	---	475	2	BG3
180+66	-	185+22	STH 42 RT	---	350	2	BG4
181+30	-	186+12	STH 42 LT	---	375	2	BG4
207+75	-	214+31	STH 42 RT	---	550	2	BG5
209+10	-	214+91	STH 42 LT	---	475	2	BG5
235+22	-	241+41	STH 42 LT	---	513	2	BG6
236+11	-	242+29	STH 42 RT	---	513	2	BG6
294+46	-	302+14	STH 42 RT	---	663	2	BG7
295+87	-	302+93	STH 42 LT	---	600	2	BG7
365+56	-	371+50	STH 42 RT	50	438	2	BG8
365+78	-	369+34	STH 42 LT	50	200	2	BG8
PROJECT TOTAL				100	6,664	28	

MARKERS CULVERT END

STATION	LOCATION	633.5200 EACH	REMARKS
101+20	STH 42 LT & RT	2	GIBS TWIN 30-INCH RCCP
160+29	STH 42 LT	1	PIPE EXTENSION
182+90	STH 42 LT & RT	2	C-31-57
404+08	STH 42 LT & RT	2	C-31-56
PROJECT TOTAL		7	

3

RESTORATION ITEMS

STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	628.2002 EROSION MAT CLASS I TYPE A SY	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.2023 EROSION MAT CLASS II TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0500 SEED WATER MGAL	REMARKS
99+70	-	102+93	STH 42 RT	670	---	20	670	---	.4	12	15	GIBS
100+45	-	102+81	STH 42 LT	---	550	550	---	---	.3	10	12	GIBS
115+90	-	124+95	STH 42 LT	---	1,240	1,240	---	---	.8	22	28	BG2
116+69	-	123+19	STH 42 RT	---	1,010	1,010	---	---	.6	18	23	BG2
132+82	-	142+75	STH 42 RT	---	1,230	1,230	---	---	.8	22	28	BG3
134+41	-	142+59	STH 42 LT	---	1,030	1,030	---	---	.6	19	23	BG3
159+84	-	161+05	STH 42 LT	---	180	180	---	---	.1	3	4	CULVERT EXTENSION
179+47	-	185+68	STH 42 RT	---	1,370	1,370	---	---	.9	25	31	BG4
180+00	-	187+30	STH 42 LT	---	980	980	---	40	.6	18	22	BG4
206+98	-	215+50	STH 42 RT	---	1,090	1,090	---	---	.7	20	24	BG5
208+33	-	216+10	STH 42 LT	---	950	950	---	---	.6	17	21	BG5
234+04	-	242+29	STH 42 LT	---	1,040	1,040	---	---	.7	19	23	BG6
234+92	-	243+48	STH 42 RT	120	1,250	1,250	120	---	.9	25	31	BG6
293+11	-	303+33	STH 42 RT	230	890	890	230	---	.7	20	25	BG7
294+69	-	304+12	STH 42 LT	---	1,080	1,080	---	---	.7	19	24	BG7
365+38	-	372+68	STH 42 RT	---	920	920	---	---	.6	17	21	BG8
365+54	-	370+52	STH 42 LT	---	1,060	1,060	450	---	1.0	27	34	BG8, SEE FARMLAND SALVAGED TOPSOIL
402+03	-	405+00	STH 42 LT	---	650	650	---	---	.4	12	15	C-31-56
402+03	-	405+00	STH 42 RT	---	750	750	---	---	.5	14	17	C-31-56
			PROJECT TOTAL	1,020	17,270	17,290	1,470	40	11.8	337	420	

MOVING SIGNS

STATION	LOCATION	638.2102 MOVING SIGNS TYPE II EACH	REMARKS
100+17	STH 42 RT	1	SPLIT ARROW
100+73	STH 42 LT	1	CTH BB
138+95	STH 42 LT	1	NO PASSING ZONE
185+00	STH 42 RT	1	NO PASSING ZONE
297+94	STH 42 LT	1	NO PASSING ZONE
365+57	STH 42 LT	1	CTH J
367+00	STH 42 RT	1	STH 42/LAKE MICH
369+06	STH 42 LT	1	STANGELVILLE
	PROJECT TOTAL	8	

3

EROSION CONTROL

STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7010 INLET PROTECTION TYPE B EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	REMARKS
99+70	-	102+93	STH 42 RT	130	30	1	---	3	12	GIBS
100+45	-	102+81	STH 42 LT	---	---	---	---	4	---	GIBS
114+72	-	126+01	STH 42 LT	1,000	250	---	10	---	24	BG2
115+00	-	124+50	STH 42 RT	810	200	---	30	2	12	BG2
132+50	-	143+86	STH 42 RT	890	220	---	30	2	---	BG3
133+10	-	143+62	STH 42 LT	680	170	---	40	1	---	BG3
159+84	-	161+05	STH 42 LT	---	---	---	---	2	---	CULVERT EXTENSION
178+67	-	186+59	STH 42 RT	620	160	---	10	1	36	BG4
179+10	-	187+30	STH 42 LT	360	90	---	10	3	48	BG4
206+48	-	215+50	STH 42 RT	630	160	---	30	---	---	BG5
208+21	-	216+10	STH 42 LT	320	80	---	20	1	24	BG5
234+04	-	242+29	STH 42 LT	420	110	---	20	1	48	BG6
234+92	-	243+48	STH 42 RT	300	80	---	20	2	48	BG6
293+11	-	303+33	STH 42 RT	560	140	---	40	1	12	BG7
293+77	-	304+12	STH 42 LT	930	230	---	30	1	12	BG7
365+38	-	373+97	STH 42 RT	690	170	---	10	---	36	BG8
365+54	-	370+52	STH 42 LT	180	50	---	20	---	48	BG8
399+34	-	405+58	STH 42 RT	400	100	---	---	2	48	C-31-56
401+34	-	407+57	STH 42 LT	480	120	---	10	1	48	C-31-56
			PROJECT TOTAL	9,400	2,360	1	330	27	456	

MOBILIZATION EROSION CONTROL

PURPOSE	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
BEGINNING OF PROJECT - SET ALL EC	STH 42	1	2
RESTORATION	GIBS, BG2, & BG3	1	---
RESTORATION	BG4/C-31-57	1	1
RESTORATION	BG5, BG6, & BG7	1	---
RESTORATION	C-31-56	1	1
END OF PROJECT - REMOVE ALL EC	STH 42	1	---
	PROJECT TOTAL	6	4

3

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 115 DAYS	643.0900 SIGNS DAYS	643.1050 PORTABLE CHANGEABLE MESSAGE SIGN DAYS	643.0420 BARRICADE TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	NO OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
1	STH 42, N. OF STH 29, PLACE 1000' N. OF STH 29 INTERSECTION	W 20-2A	48"X48"	1	115	115						
2	STH 42, N. OF STH 29, PLACE 300' N. OF STH 29 INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 5-1R	21"X21"	1	115	115						
3	STH 42, N. OF STH 29, PLACE 50' N. OF STH 29 INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						RIGHT
3A	STH 42, AT STH 29, MODIFY EXISTING J13-1 SIGN AS SHOWN	MO 6-1	21"X21"	1	115	115						LEFT
4	STH 42, AT STH 29, PLACE IN PARKING LANE AT STH 29 INTERSECTION IN SW QUADRANT	R 11-3B	60"X30"	1	115	115		115	230			5 1/2 MILES AHEAD
	"	M 4-9R	30"X24"	1	115	115						
5	STH 42, S. OF STH 29, COVER EXISTING J4-1 SIGN AS SHOWN									1	1	COVER ENTIRE SIGN
6	STH 29, W. OF STH 42, PLACE LEFT OF EXISTING J4-1 SIGN	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
7	STH 29, W. OF STH 42, MODIFY EXISITNG J4-2 SIGN AS SHOWN	M 4-8A	24"X18"	1	115	115						
8	STH 29, E. OF CTH C, PLACE 150' E. OF CTH C INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						AHEAD
9	STH 29, W. OF CTH C, PLACE 150' W. OF CTH C INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-1	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						AHEAD
9A	STH 29, E. OF CTH B, PLACE 150' E. OF CTH B INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						AHEAD
9B	STH 29, W. OF CTH B, PLACE 150' W. OF CTH B INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-1	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						AHEAD
10	STH 29, E. OF CTH AB, PLACE 750' E. OF CTH AB INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 5-1L	21"X21"	1	115	115						
11	STH 29, E. OF CTH AB, PLACE RIGHT OF EXISTING J4-1 SIGN	MO 4-8	24"X12"	1	115	115						
	"	M 3-1	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
12	STH 29, E. OF CTH B, PLACE LEFT OF EXISTING J13-1 AT CTH AB INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						LEFT
	PAGE SUBTOTALS			43		4,945	0	115	230		1	

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 115 DAYS	643.0900 SIGNS DAYS	643.1050 PORTABLE CHANGEABLE MESSAGE SIGN DAYS	643.0420 BARRICADE TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	NO OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
13	CTH AB, AT STH 29, PLACE RIGHT OF EXISTING J13-2 AT STH 29 INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-1	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						RIGHT
14	STH 29, W. OF CTH AB, PLACE 1/4 MILE W. OF CTH AB INTERSECTION	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	W 20-2A	48"X48"	1	115	115						
15	STH 29, W. OF CTH AB, PLACE 500' W. OF CTH AB INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 5-1R	21"X21"	1	115	115						
16	STH 29, AT CTH AB, PLACE LEFT OF EXISTING J13-1 AT CTH AB INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						RIGHT
17	CTH AB, S. OF STH 29, PLACE 750' S. OF STH 29 INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-1	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 5-1R	21"X21"	1	115	115						
18	CTH AB, N. OF CTH J, PLACE 150' N. OF CTH J INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						AHEAD
19	CTH AB, S. OF CTH J, PLACE 150' S. OF CTH J INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-1	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						AHEAD
20	CTH AB, N. OF CTH KB, PLACE 500' N. OF CTH KB INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 5-1L	21"X21"	1	115	115						
21	CTH AB, AT CTH KB, PLACE RIGHT OF EXISTING J13-2 SIGN AT CTH KB INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						LEFT
22	CTH AB, AT CTH KB, PLACE RIGHT OF EXISTING J13-2 SIGN AT CTH KB INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-1	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						RIGHT
23	CTH AB, E. OF CTH G, PLACE 150' E. OF CTH G INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-2	21"X21"	1	115	115						TILT RIGHT
	PAGE SUBTOTALS			43		4,945	0	0	0		0	

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 115 DAYS	643.0900 DETOUR SIGNS DAYS	643.1050 PORTABLE CHANGEABLE MESSAGE SIGN DAYS	643.0420 BARRICADE TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	NO OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
24	CTH AB, W. OF CTH G, PLACE 150' W. OF CTH G INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-1	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-2	21"X21"	1	115	115						TILT LEFT
25	CTH AB, N. OF CTH BB, PLACE 500' N. OF CTH BB INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 5-1L	21"X21"	1	115	115						
26	CTH AB, AT CTH BB, PLACE RIGHT OF EXISTING J13-1 SIGN AT CTH BB INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						LEFT
27	CTH BB, AT CTH AB, PLACE RIGHT OF EXISTING J13-2 SIGN AT CTH BB INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-1	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						RIGHT
28	CTH BB, E. OF CTH AB, PLACE 500' E. OF CTH AB INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-1	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 5-1R	21"X21"	1	115	115						
29	CTH BB, W. OF CTH B, PLACE 150' W. OF CTH B INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-3	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						AHEAD
29A	CTH BB, E. OF CTH B, PLACE 150' E. OF CTH B INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-1	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						AHEAD
30	CTH BB, W. OF STH 42, MODIFY EXISTING J4-1 AS SHOWN	M 4-8A	24"X18"	1	115	115						
31	STH 42, N. OF CTH BB, COVER EXISTING J4-1 SIGN AS SHOWN									1	1	COVER ENTIRE SIGN
32	STH 42, S. OF CTH BB, PLACE RIGHT OF EXISTING J13-1 SIGN AS SHOWN	MO 4-8	24"X12"	1	115	115						
	"	M 3-1	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 6-1	21"X21"	1	115	115						LEFT
33	STH 42, S. OF CTH BB, PLACE 750' S. OF CTH BB INTERSECTION	MO 4-8	24"X12"	1	115	115						
	"	M 3-1	24"X12"	1	115	115						
	"	M 1-6	24"X24"	1	115	115						42
	"	MO 5-1L	21"X21"	1	115	115						
34	STH 42, S. OF CTH BB, PLACE 1/4 MILE S. OF CTH BB INTERSECTION	W 20-2A	48"X48"	1	115	115						
35	STH 42, AT CTH BB, PLACE ON RIGHT SHOULDER IN NE QUADRANT OF CTH BB INTERSECTION	R 11-3B	60"X30"	1	115	115		115	230			1 1/2 MILES AHEAD
	"	M 4-9L	30"X24"	1	115	115						
36	STH 42, S. OF CTH J, PLACE ON RIGHT SHOULDER, FIELD DETERMINED	PCMS		1			7					PLACE 7 DAYS IN ADVANCE OF CLOSURE
37	STH 42, N. OF CTH J, PLACE ON RIGHT SHOULDER, FIELD DETERMINED	PCMS		1			7					PLACE 7 DAYS IN ADVANCE OF CLOSURE
38	STH 42, AT CTH C, PLACE ON RIGHT SHOULDER IN NW QUADRANT OF CTH C INTERSECTION	R 11-3B	60"X30"	1	115	115		115	230			2 MILES AHEAD
	PAGE SUBTOTALS			43		4,715	14	230	460		1	
	DETOUR SUBTOTALS			**129***		**14,605***	**14***	**345***	**690***		**2***	*SEE TRAFFIC CONTROL SUMMARY TABLE FOR PROJECT TOTALS

3

TRAFFIC CONTROL SUMMARY

LOCATION	ESTIMATED # of Days	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0920 COVERING SIGNS TYPE II EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	REMARKS
ENTIRE PROJECT	137	---	---	---	4,110	---	---	
GIBS PIPE REPLACEMENT	9	360	27	36	126	---	---	ROADWAY TO REMAIN OPEN TO LOCAL TRAFFIC
C-31-56 & 57	115	---	1,610	2,300	690	---	---	
PIPE EXTENSION, 160+29 LT	4	60	---	---	4	---	---	SHOULDER CLOSURE
GUADRAIL WORK	35	1,050	---	---	70	---	---	SHOULDER CLOSURE
MILLING AND PAVING	68	---	---	---	2,040	---	---	
FROM DETOUR TABLE	---	---	345	690	14,605	2	14	
PROJECT TOTAL		1,470	1,982	3,026	21,645	2	14	

LOCATING NO-PASSING ZONES

STATION		STATION	LOCATION	648.0100* LOCATING NO-PASSING ZONES MI
78+79	-	619+59	STH 42	10.24
			PROJECT TOTAL	10.24

*THE STOPPING SIGHT DISTANCE IN AREAS WITH 55 MPH POSTED SPEED LIMITS IS 0.21 MILES (1108 FT)

PAVEMENT MARKING-CHANNELIZING

STATION		STATION	LOCATION	646.3040 MARKING LINE GROOVED WET REF EPOXY 8-INCH	REMARKS
100+45	-	101+45	STH 42 LT	100	
148+94	-	150+94	STH 42 RT	200	
154+21	-	155+20	STH 42 LT	100	
259+78	-	260+78	STH 42 LT	100	
418+88	-	419+88	STH 42 LT	100	
471+79	-	472+29	STH 42 LT	50	
472+29	-	473+79	STH 42 LT	38	SKIPS
481+74	-	482+24	STH 42 LT	50	
512+64	-	513+64	STH 42 LT	100	
519+50	-	520+50	STH 42 RT	100	
565+10	-	566+60	STH 42 RT	38	SKIPS
566+60	-	567+60	STH 42 RT	100	
			PROJECT TOTAL	976	

CONSTRUCTION STAKING

STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	REMARKS
89+87	-	612+73	STH 42	---	---	52,286	---	PROJECT
100+00	-	103+03	STH 42	278	278	---	303	GIBS
115+88	-	125+05	STH 42	897	897	---	917	BG2
132+72	-	142+85	STH 42	993	993	---	1,013	BG3
179+37		187+40	STH 42	783	783	---	803	BG4/C-31-57
206+88		216+20	STH 42	912	912	---	932	BG5
233+94	-	243+58	STH 42	944	944	---	964	BG6
293+01	-	304+22	STH 42	1,101	1,101	---	1,121	BG7
365+28		372+78	STH 42	730	730	---	750	BG8
401+93		405+10	STH 42	297	297	---	317	C-31-56
			PROJECT TOTAL	6,935	6,935	52,286	7,120	

PAVEMENT MARKING - CENTERLINE

STATION		STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH LF	649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH LF	REMARKS
89+87	-	97+18	STH 42	914	2,368	789	SOLID AND SKIPS YELLOW
97+18	-	103+13	STH 42	1,190	3,571	1,190	DOUBLE YELLOW
103+13	-	108+53	STH 42	675	1,749	583	SOLID AND SKIPS YELLOW
108+53	-	138+87	STH 42	759	728	243	SKIPS YELLOW
138+87	-	147+94	STH 42	1,134	2,939	980	SOLID AND SKIPS YELLOW
147+94	-	150+88	STH 42	73	71	24	SKIPS YELLOW
150+88	-	164+60	STH 42	1,715	4,445	1,482	SOLID AND SKIPS YELLOW
164+60	-	167+60	STH 42	600	1,800	600	DOUBLE YELLOW
167+60	-	170+05	STH 42	307	796	265	SOLID AND SKIPS YELLOW
170+05	-	176+79	STH 42	169	162	54	SKIPS YELLOW
176+79	-	185+37	STH 42	1,072	2,778	926	SOLID AND SKIPS YELLOW
185+37	-	189+90	STH 42	113	109	36	SKIPS YELLOW
189+90	-	198+08	STH 42	1,022	2,648	883	SOLID AND SKIPS YELLOW
198+08	-	199+00	STH 42	23	22	7	SKIPS YELLOW
199+00	-	206+51	STH 42	939	2,433	811	SOLID AND SKIPS YELLOW
206+52	-	298+26	STH 42	2,294	2,202	734	SKIPS YELLOW
298+26	-	304+44	STH 42	772	2,001	667	SOLID AND SKIPS YELLOW
304+44	-	310+91	STH 42	162	155	52	SKIPS YELLOW
310+92	-	316+12	STH 42	650	1,684	561	SOLID AND SKIPS YELLOW
316+12	-	363+97	STH 42	1,196	1,148	383	SKIPS YELLOW
375+01	-	385+07	STH 42	2,011	6,033	2,011	DOUBLE YELLOW
385+07	-	396+23	STH 42	1,394	3,614	1,205	SOLID AND SKIPS YELLOW
396+23	-	413+95	STH 42	443	425	142	SKIPS YELLOW
413+95	-	423+01	STH 42	1,132	2,934	978	SOLID AND SKIPS YELLOW
423+01	-	424+44	STH 42	36	34	11	SKIPS YELLOW
424+45	-	442+17	STH 42	2,215	5,741	1,914	SOLID AND SKIPS YELLOW
442+17	-	483+45	STH 42	8,256	24,768	8,256	DOUBLE YELLOW
483+46	-	487+74	STH 42	535	1,387	462	SOLID AND SKIPS YELLOW
487+74	-	521+35	STH 42	840	807	269	SKIPS YELLOW
521+38	-	533+19	STH 42	1,476	3,826	1,275	SOLID AND SKIPS YELLOW
533+20	-	590+80	STH 42	11,521	34,562	11,521	DOUBLE YELLOW
590+82	-	607+97	STH 42	2,144	9,263	1,853	SOLID AND SKIPS YELLOW
607+97	-	612+72	STH 42	950	2,851	950	DOUBLE YELLOW
100+00			STH 42 LT	125	---	125	CTH BB - DOUBLE YELLOW
259+13			STH 42 LT	60	---	60	CTH G - SOLID AND SKIPS YELLOW
364+84			STH 42 LT	125	---	125	CTH J - DOUBLE YELLOW
490+94			STH 42 LT	125	---	125	CTH C - DOUBLE YELLOW
BEYOND PROJECT LIMITS				2,640	---	2,640	LOCATING NO PASSING ZONE
			PROJECT TOTAL	51,805	130,054	45,191	

REMOVE EXCESS MATERIAL FROM B-31-16

STATION	LOCATION	SPV.0105.01 REMOVE EXCESS MATERIAL FROM STRUCTURE B-31-16 LS
367+33	STH 42	1
	PROJECT TOTAL	1

DRAIN TILE AND FARMLAND SALVAGED TOPSOIL

STATION		STATION	LOCATION	606.0100 RIPRAP LIGHT CY	645.0130 GEOTEXTILE TYPE R SY	625.0105 TOPSOIL* CY	SPV.0180.01 FARMLAND SALVAGED TOPSOIL SY	REMARKS
367+30	-	370+00	STH 42 LT	2	7	30	450	1-FT DEPTH TOPSOIL/FARMLAND SALV TOPSOIL
			PROJECT TOTAL	2	7	30	450	

*HAUL IN TOPSOIL IF THERE IS A SHORTAGE OF SUITABLE FARMLAND SALVAGED TOPSOIL

PAVEMENT MARKING - EDGLINES

STATION		STATION	LOCATION	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH LF	REMARKS
89+87	-	99+14	STH 42 LT	927	
100+45	-	113+52	STH 42 LT	1,305	
114+49	-	114+99	STH 42 LT	13	SKIPS
114+99	-	153+00	STH 42 LT	3,798	
154+21	-	205+74	STH 42 LT	5,154	
160+12	-	162+22	STH 42 LT	53	SKIPS
206+93	-	207+43	STH 42 LT	13	SKIPS
207+43	-	258+62	STH 42 LT	5,119	
259+78	-	311+44	STH 42 LT	5,166	
312+46	-	312+96	STH 42 LT	13	SKIPS
312+96	-	364+33	STH 42 LT	5,137	
365+54	-	366+04	STH 42 LT	13	SKIPS
366+04	-	417+75	STH 42 LT	5,171	
418+88	-	469+56	STH 42 LT	5,077	
469+56	-	471+79	STH 42 LT	57	SKIPS
473+79	-	480+39	STH 42 LT	662	
481+74	-	511+38	STH 42 LT	2,965	
512+64	-	612+72	STH 42 LT	9,996	
100+00			STH 42 LT	60	CTH BB
259+13			STH 42 LT	60	CTH G
364+84			STH 42 LT	60	CTH J
490+94			STH 42 LT	60	CTH C
			SUBTOTAL LT	50,876	
89+87	-	150+94	STH 42 RT	6,114	
98+50	-	100+65	STH 42 RT	54	SKIPS
152+01	-	185+14	STH 42 RT	3,313	
185+14	-	185+64	STH 42 RT	13	SKIPS
186+53	-	205+26	STH 42 RT	1,873	
205+26	-	205+76	STH 42 RT	13	SKIPS
206+66	-	257+97	STH 42 RT	5,132	
257+97	-	258+47	STH 42 RT	13	SKIPS
259+60	-	310+88	STH 42 RT	5,128	
310+88	-	311+38	STH 42 RT	13	SKIPS
312+29	-	363+76	STH 42 RT	5,147	
363+76	-	364+26	STH 42 RT	13	SKIPS
365+41	-	416+99	STH 42 RT	5,159	
416+99	-	417+49	STH 42 RT	13	SKIPS
418+74	-	506+93	STH 42 RT	8,800	
506+93	-	507+43	STH 42 RT	13	SKIPS
508+48	-	520+50	STH 42 RT	1,202	
521+65	-	540+46	STH 42 RT	1,885	
540+46	-	542+50	STH 42 RT	51	SKIPS
542+50	-	567+60	STH 42 RT	2,519	
567+60	-	569+50	STH 42 RT	48	SKIPS
569+50	-	612+73	STH 42 RT	4,320	
			SUBTOTAL RT	50,833	
			PROJECT TOTAL	101,709	

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
1470-25-21		
FEDERAL PROJECT NUMBER	4.01	6

PLAT OF RIGHT-OF-WAY REQUIRED FOR

SCL - KEWAUNEE

SCL - SOUTH CITY LIMITS KEWAUNEE

STH 42 KEWAUNEE COUNTY

CONSTRUCTION PROJECT NUMBER

4

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, or TOWN LINE	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
PROPOSED REFERENCE LINE	
PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
EASEMENT LINE	
CORPORATE LIMITS	
EXISTING CENTERLINE	
LOT & TIE LINES	
UTILITIES (TELEPHONE,GAS,ELECTRIC,CABLE TV,FIBER OPTIC)	FO (TYPE)
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
NO ACCESS (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
PARCEL NUMBER	102
UTILITY PARCEL NUMBER	92
SIGN NUMBER (OFF PREMISE)	21-1
BUILDING	
FOUND IRON PIPE/PIN	I.P. (1" UNLESS NOTED)
R/W MONUMENT	●(SET)
R/W STANDARD	▲(SET)
SIGN	I SIGN
SECTION CORNER SYMBOL	

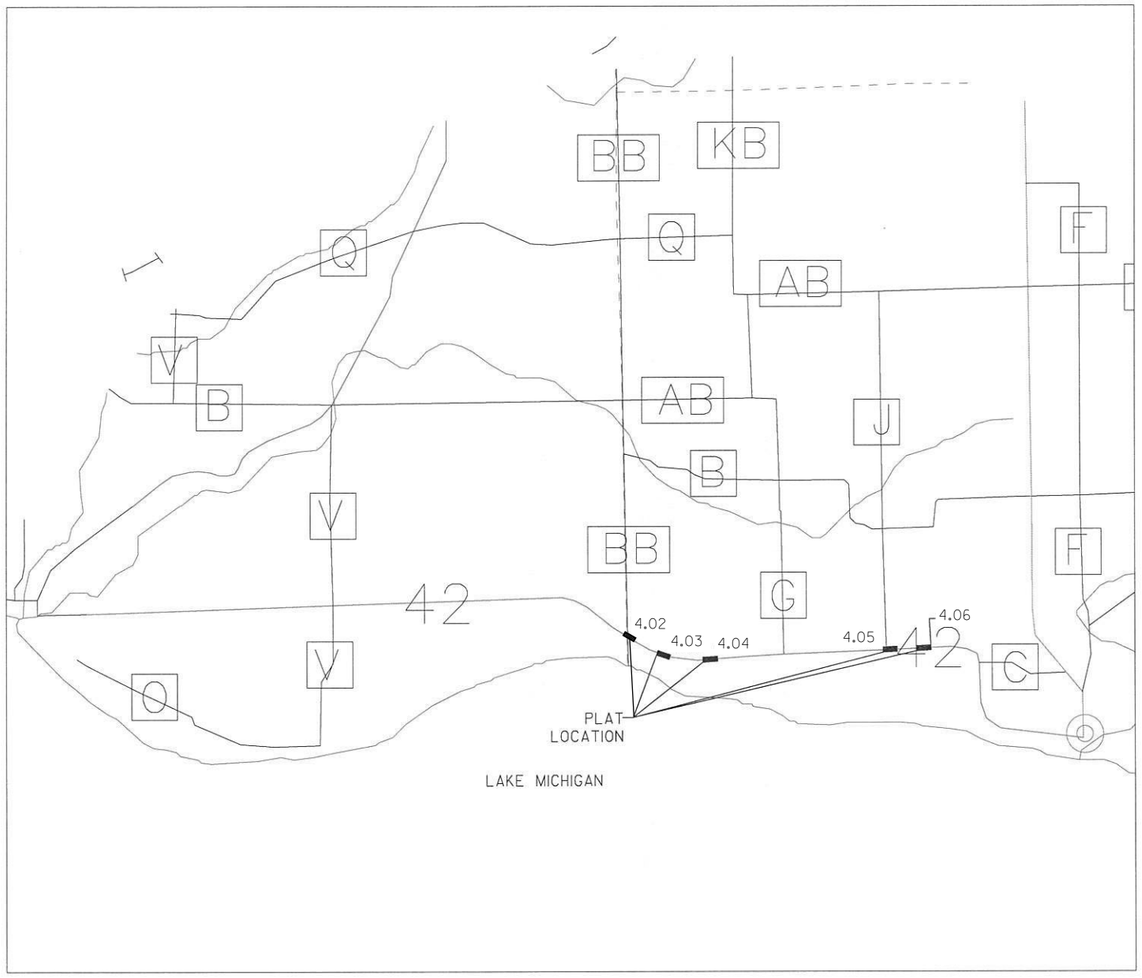
ACCESS POINT/ DRIVEWAY CONNECTION	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PERMANENT LIMITED EASEMENT	PLE
PROPERTY LINE	PL
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		



LOCATION SKETCH
NOT TO SCALE

GN

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), KEWAUNEE COUNTY, NAD83 2007 IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4"X24" IRON REBARS) UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 42 ESTABLISHED UNDER FEDERAL AID PROJECT No. 367-D, R/W PROJECT No. 1470-06-21, AND PROJECT No. DF 01-4(32).

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

THE REFERENCE LINE SHOWN ON THE PLAT MAY NOT BE THE SAME AS THE REFERENCE LINE SHOWN ON THE CONSTRUCTION PLAN.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

WISCONSIN
TODD J. BUHR
S-2614
DEFOREST, WI
LAND SURVEYOR

12-21-18

JSD Professional Services, Inc.
• Engineers • Surveyors • Planners

REVISION DATE
3-11-2019
8-19-2019
11-04-2019

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED FOR THE DEPARTMENT

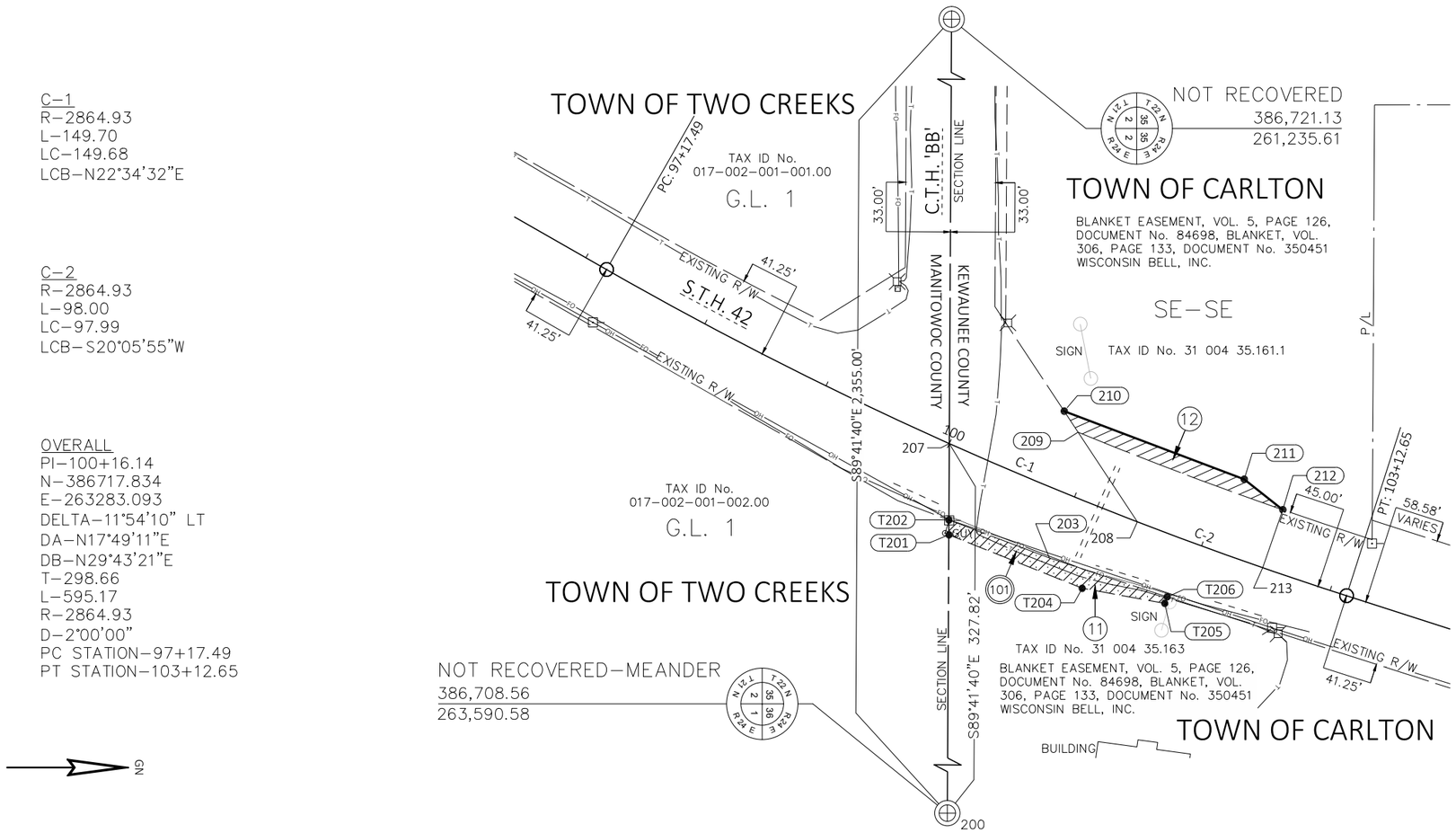
DATE: 12-28-2018 Curt VanEeen (Signature)

E

C–1
R–2864.93
L–149.70
LC–149.68
LCB–N22°34'32"E

C–2
R–2864.93
L–98.00
LC–97.99
LCB–S20°05'55"W

OVERALL
PI–100+16.14
N–386717.834
E–263283.093
DELTA–11°54'10" LT
DA–N17°49'11"E
DB–N29°43'21"E
T–298.66
L–595.17
R–2864.93
D–2°00'00"
PC STATION–97+17.49
PT STATION–103+12.65



SCHEDULE OF LANDS & INTERESTS REQUIRED						OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR SF REQUIRED			P.L.E. ACRES OR SF
			NEW	EXISTING	TOTAL	
11	MARK E. & MARY A. WESTON	PLE	---	---	---	1,787
12	GERARD J. & JOSEPH T. RATAJCZAK	FEE	1,767	5,815	7,582	---

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR HIGHWAY PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE THE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSES, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLAT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES PROVIDING SAID ACTIVITIES WOULD NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
101	WISC. BELL, INC. d/b/a AT&T WISC. (UNDERGROUND TELEPHONE)	RELEASE OF RIGHTS

COURSE TABLE			
PT. NO.	PT. NO.	BEARING	DISTANCE
200	207	N89°41'40"W	327.82'
207	208	SEE CURVE C1	
208	209	S56°28'53"W	78.94'
209	210	S56°28'53"W	18.52'
210	211	N20°42'20"E	141.40'
211	212	N38°21'51"E	36.12'
212	213	S70°52'53"E	45.00'
213	208	SEE CURVE C2	

COURSE TABLE			
PT. NO.	PT. NO.	BEARING	DISTANCE
200	T201	N89°41'40"W	260.83'
T201	T202	N89°41'40"W	10.89'
T202	203	N20°42'19"E	78.89'
203	T206	N18°17'04"E	91.20
T206	T205	S69°42'51"E	5.07'
T205	T204	S10°25'43"W	61.69'
T204	T201	S21°48'11"E	105.27'

STATION & OFFSET TABLE		
PT. NO.	STATION	OFFSET
T201	100+26.43	R61.43
T202	100+22.21	R51.43
T204	101+29.80	R60.12
T205	101+89.34	R48.93
T206	101+89.34	R43.86

STATION & OFFSET TABLE		
PT. NO.	STATION	OFFSET
200	101+19.52	R302.77
203	100+00	00.00
207	100+00	00.00
208	101+49.70	00.00
209	100+84.32	L45.00
210	100+68.68	L55.84
211	102+12.91	L56.70
212	102+47.69	L45.00
213	102+47.69	00.00

REVISION DATE
8-19-2019
11-04-2019 NC

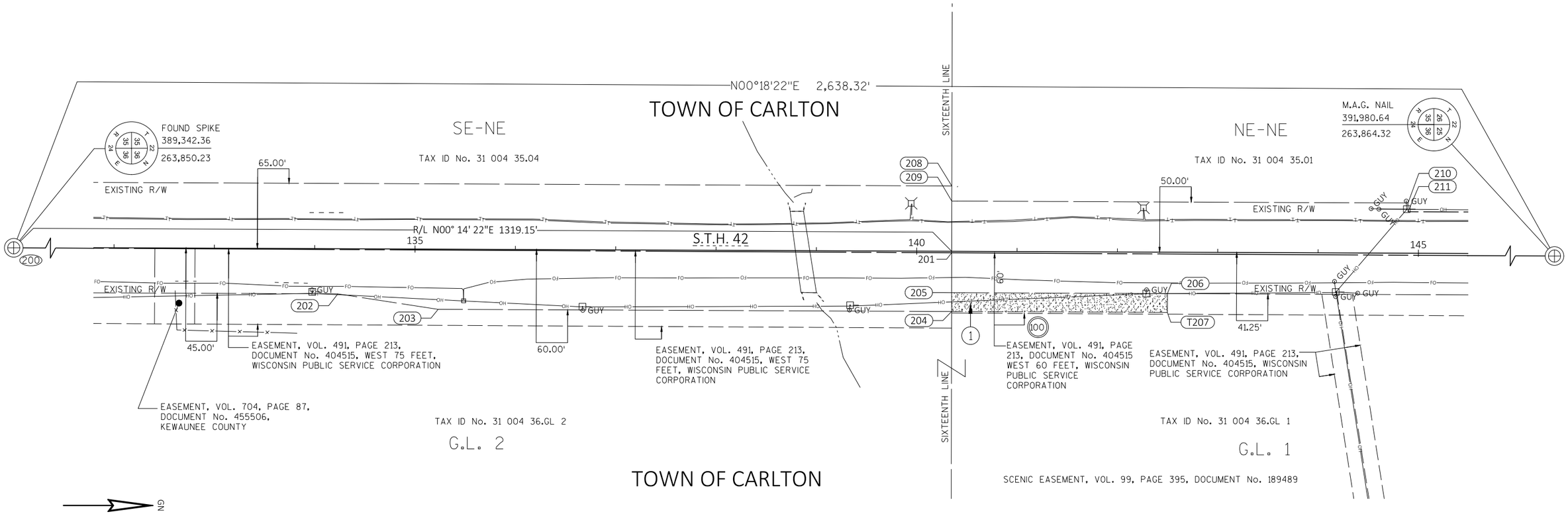
DATE 12-28-2018

SCALE, FEET
0 50 100

HWY: STH 42
COUNTY: KEWAUNEE

STATE R/W PROJECT NUMBER 1470–25–21
CONSTRUCTION PROJECT NUMBER

PLAT SHEET NO. 4.02
PS&E SHEET NO. 42



4

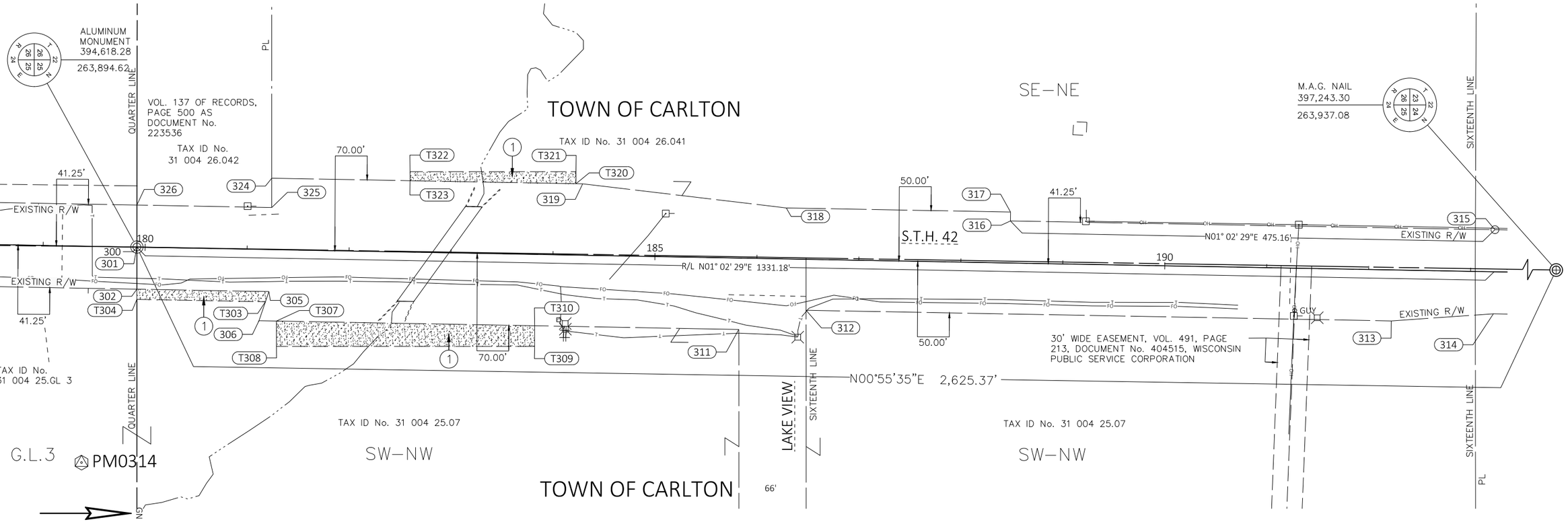
SCHEDULE OF LANDS & INTERESTS REQUIRED						OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR SF REQUIRED			P.L.E., T.L.E. ACRES OR SF
			NEW	EXISTING	TOTAL	
1	DOMINION ENERGY KEWAUNEE INC.	TLE	---	---	---	4,031

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN PUBLIC SERVICE CORP. (OVERHEAD ELECTRIC)	RELEASE OF RIGHTS

STATION & OFFSET TABLE		
PT. NO.	STATION	OFFSET
T207	142+50.00	R60.00

STATION & OFFSET TABLE		
PT. NO.	STATION	OFFSET
200	127+15.73	R00.00
201	140+34.88	R01.53
202	134+23.26	R45.00
203	135+23.26	R60.00
204	140+35.01	R60.00
205	140+34.97	R41.25
206	142+50.00	R41.25
208	140+34.74	L65.00
209	140+34.77	L50.00
210	144+89.49	L50.00
211	144+89.49	L41.25

REVISION DATE	DATE 12-28-2018	SCALE, FEET 0 50 100	HWY: STH 42	STATE R/W PROJECT NUMBER 1470-25-21	PLAT SHEET NO. 4.03
3-11-2019 NC			COUNTY: KEWAUNEE	CONSTRUCTION PROJECT NUMBER _____	PS&E SHEET NO. 43
8-19-2019					
11-04-2019 NC					

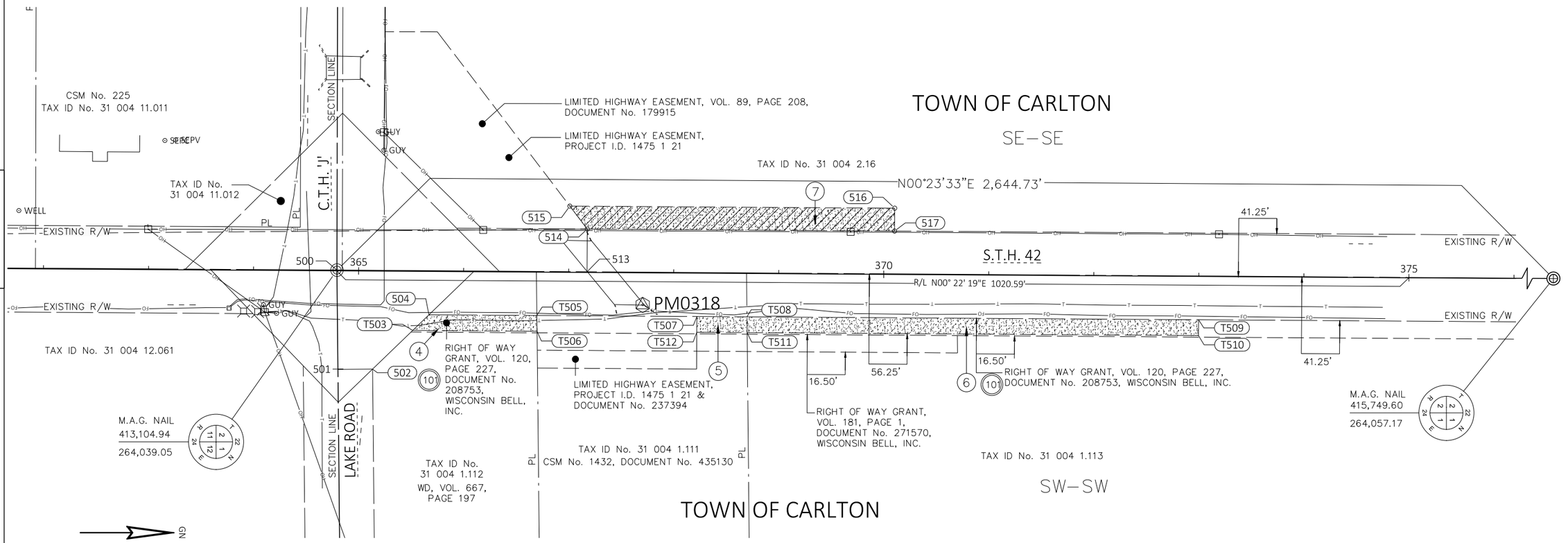


SCHEDULE OF LANDS & INTERESTS REQUIRED						OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR SF REQUIRED			T.L.E. ACRES OR SF
			NEW	EXISTING	TOTAL	
1	DOMINION ENERGY KEWAUNEE INC.	TLE	---	---	---	8,651 SF

STATION & OFFSET TABLE		
PT. NO.	STATION	OFFSET
T304	179+92.80	R51.25
T303	181+18.94	R51.25
T307	181+30.07	R70.00
T308	181+30.52	R94.77
T309	183+83.69	R90.17
T310	183+83.33	R70.00
T320	184+21.24	L70.00
T321	184+21.02	L81.82
T322	182+58.41	L78.87
T323	182+58.57	L70.00

STATION & OFFSET TABLE		
PT. NO.	STATION	OFFSET
300	179+91.87	L00.05
301	179+91.87	R00.00
302	179+92.62	R41.25
305	181+22.15	R41.25
306	181+12.91	R70.00
311	185+83.53	R70.00
312	186+49.17	R50.00
313	192+23.05	R50.00
314	193+23.05	R41.25
315	193+23.05	L41.25
316	188+47.88	L41.25
317	188+47.88	L50.00
318	186+27.88	L50.00
319	184+27.88	L70.00
324	181+22.90	L70.00
325	181+23.42	L41.25
326	179+91.18	L41.25
PM0314	179+41.45	R212.28

REVISION DATE 3-11-2019 8-19-2019 11-04-2019 NC	DATE 12–28–2018	SCALE, FEET 0 50 100	HWY: STH 42	STATE R/W PROJECT NUMBER 1470–25–21	PLAT SHEET NO. 4.04
			COUNTY: KEWAUNEE	CONSTRUCTION PROJECT NUMBER _____	PS&E SHEET NO. 44



SCHEDULE OF LANDS & INTERESTS REQUIRED							OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR SF REQUIRED			T.L.E. ACRES OR SF	P.L.E. ACRES OR SF
			NEW	EXISTING	TOTAL		
4	ELLIOT PALLEX & PATRICIA GLINSKI	TLE	---	---	---	1,660	---
5	AMY JO CHRISTINE GOODAVISH	TLE	---	---	---	750	---
6	ANDY G. OSWALD	TLE	---	---	---	6,448	---
7	ROBERT B. & PAMELA J. DWORAK TRUST	PLE	---	---	---	---	6,545

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES OF A DRAINAGE DITCH, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE THE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSES, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES PROVIDING SAID ACTIVITIES WOULD NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
101	WISC. BELL, INC. d/b/a AT&T WISC. (UNDERGROUND TELEPHONE)	RELEASE OF RIGHTS

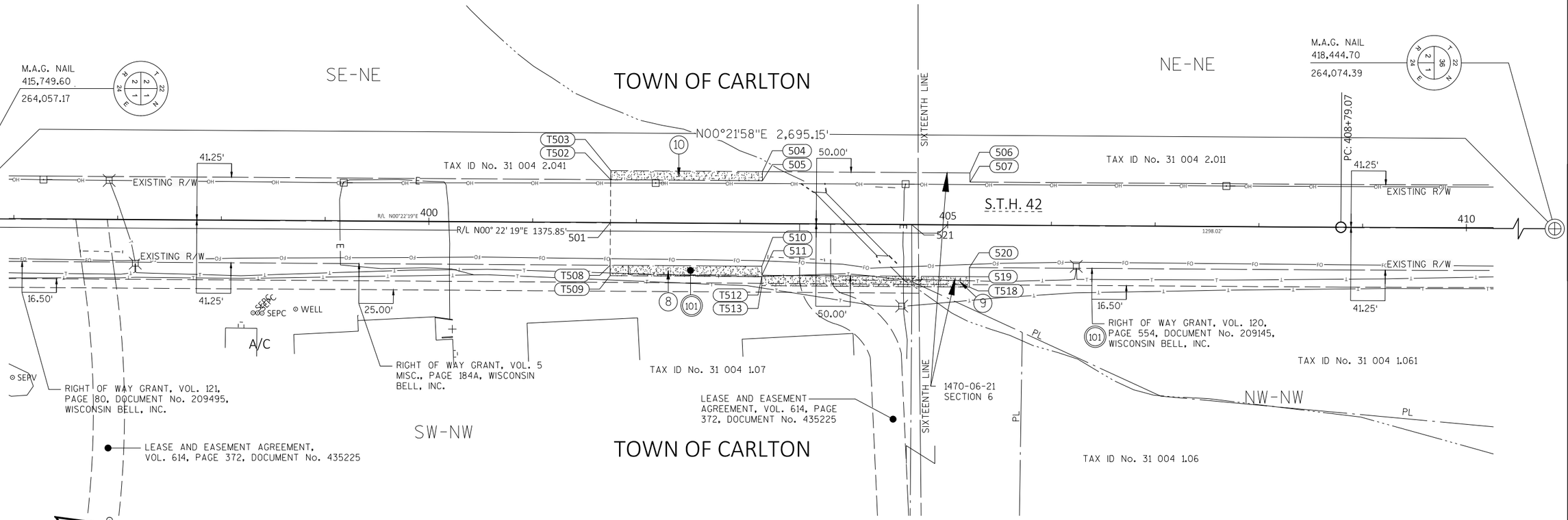
COURSE TABLE			
PT. NO.	PT. NO.	BEARING	DISTANCE
500	513	N00°23'33"E	238.03'
513	514	N89°36'27"W	40.74'
514	515	S52°44'44"W	27.46'
515	516	N00°22'19"E	309.32'
516	517	S89°37'41"E	21.75'
517	514	S00°22'19"W	292.55'

STATION & OFFSET TABLE		
PT. NO.	STATION	OFFSET
T503	365+51.85	R56.25
T505	366+70.03	R41.25
T506	366+70.28	R56.25
T507	368+22.39	R41.25
T508	368+70.04	R41.25
T509	373+00.00	R41.25
T510	373+00.00	R56.25
T511	368+70.28	R56.25
T512	368+22.38	R56.25

STATION & OFFSET TABLE		
PT. NO.	STATION	OFFSET
500	364+79.40	L00.59
501	364+80.93	R89.57
502	365+13.93	R93.26
504	365+67.22	R41.25
513	367+17.43	L00.51
514	367+17.45	L41.25
515	367+00.68	L63.00
516	370+10.00	L63.00
517	370+10.00	L41.25
PM0318	367+70.67	R30.47

REVISION DATE	DATE 12–28–2018	SCALE, FEET 0 50 100	HWY: STH 42	STATE R/W PROJECT NUMBER 1470–25–21	PLAT SHEET NO. 4.05	
8-19-2019			COUNTY: KEWAUNEE	CONSTRUCTION PROJECT NUMBER _____	PS&E SHEET NO. 45	
11-04-2019						

4



4

4

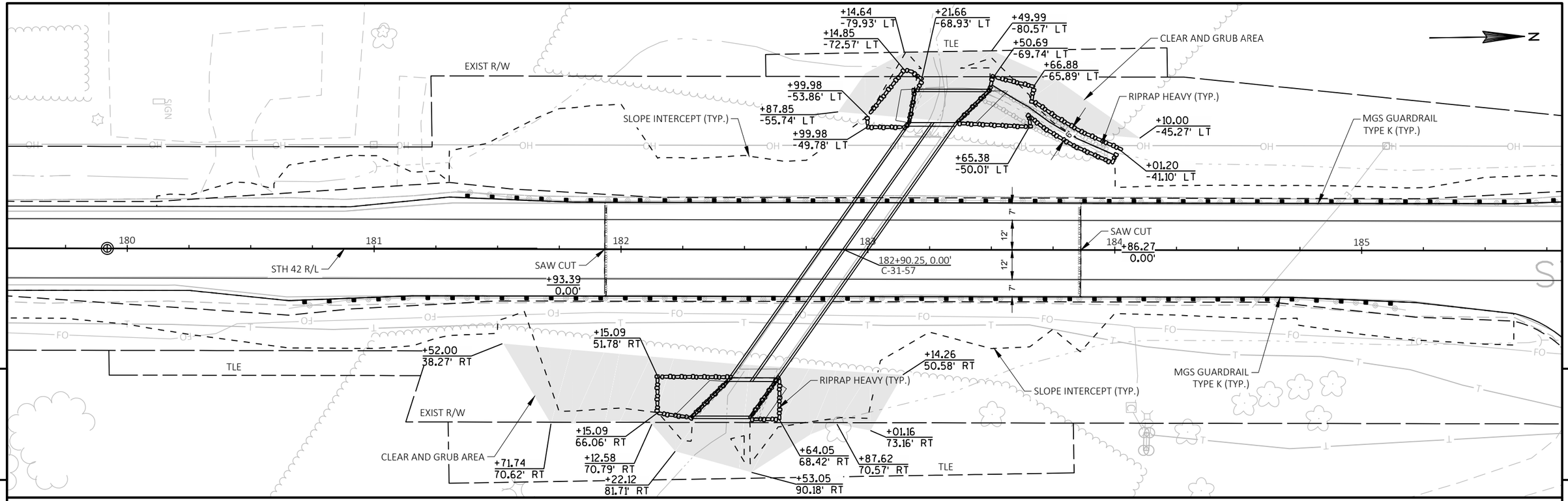
SCHEDULE OF LANDS & INTERESTS REQUIRED						OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR SF REQUIRED			T.L.E. ACRES OR SF
			NEW	EXISTING	TOTAL	
8	JOHANNES W. WAKKER	TLE	---	---	---	2,935
9	MARK E. & DEBRA L. BOULTER	TLE	---	---	---	527
10	KEVIN M. PAPLHAM	TLE	---	---	---	1,280

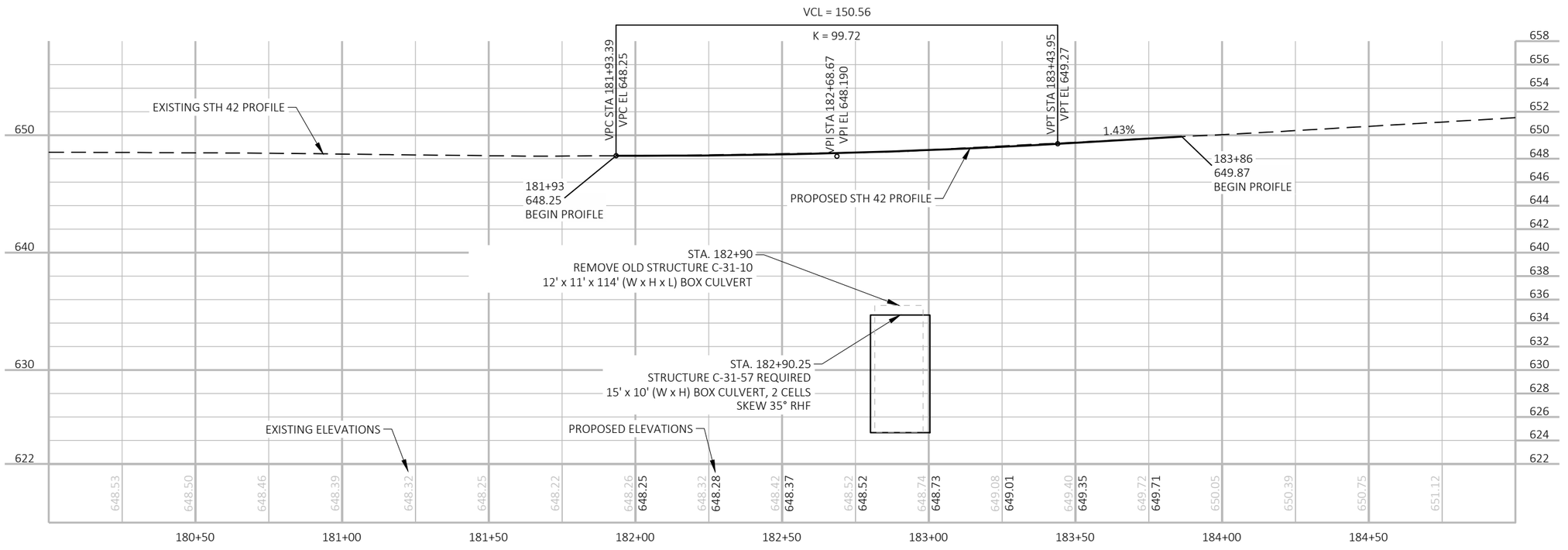
UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
101	WISC. BELL, INC. d/b/a AT&T WISC. (UNDERGROUND TELEPHONE)	RELEASE OF RIGHTS

STATION & OFFSET TABLE		
PT. NO.	STATION	OFFSET
T502	401+75.00	L41.25
T503	401+75.00	L50.00
T508	401+75.00	R41.25
T509	401+75.00	R51.25
T512	403+21.24	R51.25
T513	403+21.24	R60.00
T518	405+21.25	R60.00

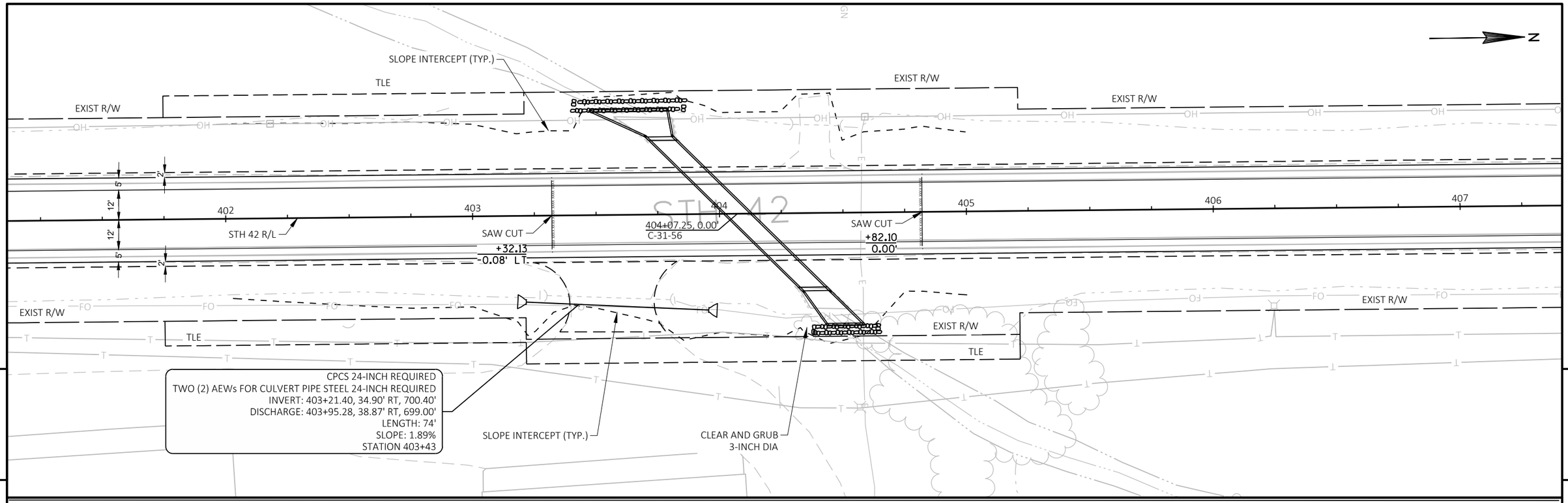
STATION & OFFSET TABLE		
PT. NO.	STATION	OFFSET
500	391+24.13	R00.36
501	401+75.00	R00.00
510	403+21.24	R41.25
511	403+21.24	R50.00
519	405+21.25	R50.00
520	405+21.25	R41.25
507	405+21.25	L41.25
506	405+21.25	L50.00
504	403+21.24	L50.00
505	403+21.24	L41.25
521	404+65.40	R00.23

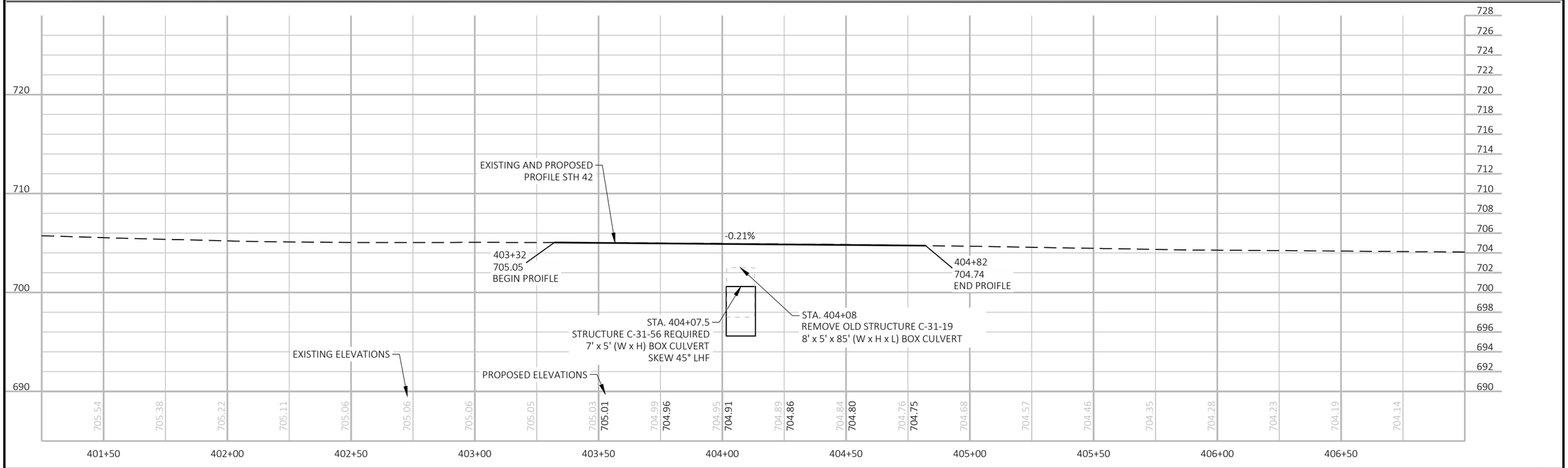
REVISION DATE	DATE 12-28-2018	SCALE, FEET 0 50 100	HWY: STH 42	STATE R/W PROJECT NUMBER 1470-25-21	PLAT SHEET NO. 4.06
3-11-2019 NC			COUNTY: KEWAUNEE	CONSTRUCTION PROJECT NUMBER _____	PS&E SHEET NO. 46
8-19-2019					
11-04-2019 NC					





PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN AND PROFILE: STRUCTURE C-31-57	SHEET 47	E





PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN AND PROFILE: STRUCTURE C-31-56	SHEET 48	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050102-pp
PLOT DATE : 10/28/2020 4:18 PM
PLOT BY : KIRST, DOUGLAS P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

LEGEND
SAW CUT
FULL DEPTH REMOVAL

BEGIN PROJECT
STA 89+86.50
Y=385,823.652
X=262,772.598

EXISTING STRUCTURE
B-36-227
(TO REMAIN)

BUTT JOINT REQUIRED

R/L STH 42

L1

EXIST R/W

STH 42

EXIST R/W

BUTT JOINT REQUIRED
+62.92
-64.98'LT

CTH BB

EXIST R/W

PC: 97+17.49

C1
SE=4.7%

18-INCH CPCS
SEE PLAN DETAIL FOR
ADDITIONAL INFORMATION

MATCH LINE 100+50.00

90 95 100

3' 2' 5' 3' 24

5

TWO(2) 30-INCH CPRC
SEE PLAN DETAILS FOR
ADDITIONAL INFORMATION

SLOPE INTERCEPT (TYP)

1' GRAVEL SHOULDER
2' PAVED SHOULDER

EXIST R/W

MATCH LINE 100+50.00

105 110

STH 42

PT: 103+12.65

R/L STH 42

EXIST R/W

L2

PC: 111+46.56

SEE STORM SEWER
PLAN FOR ADDITIONAL
INFORMATION

PERMANENT LIMITED EASEMENT

BUTT JOINT REQUIRED
+97.13
-52.09'LT

HERMANN LN

EXIST R/W

3' 3'

MATCH LINE 115+00.00

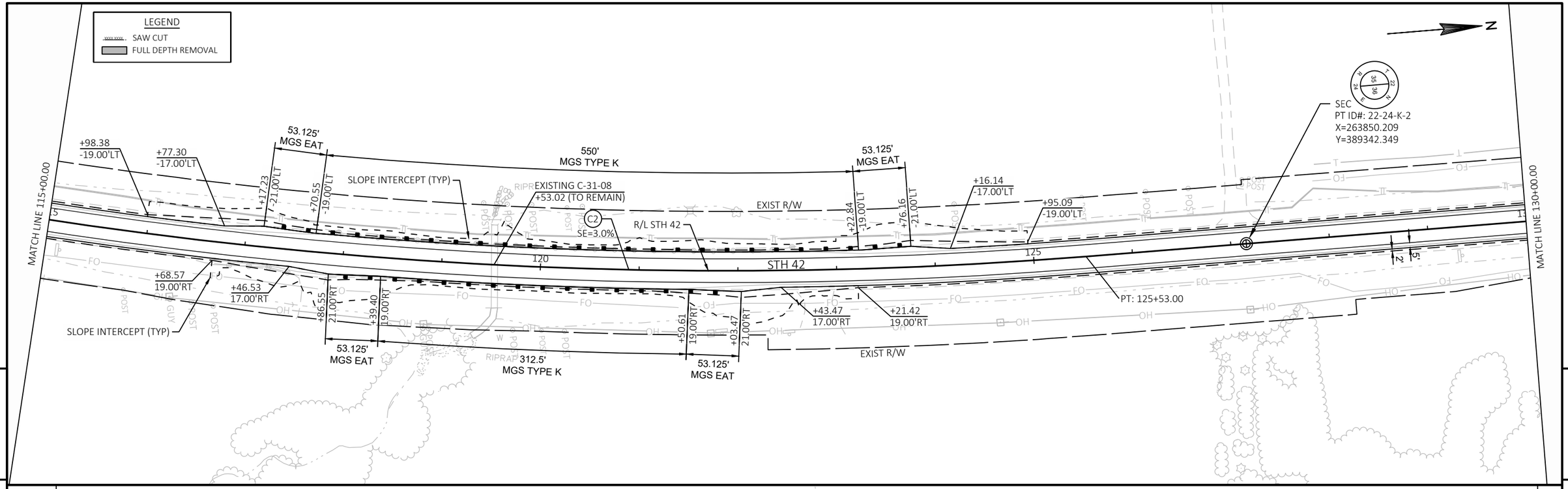
5

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 49	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050201-pn

PLOT DATE : 1/14/2020 2:56 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 50	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050202-pn

PLOT DATE : 1/14/2020 2:56 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

LEGEND
SAW CUT
FULL DEPTH REMOVAL

MATCH LINE 145+00.00

PI: 148+92.53

R/L STH 42

EXIST R/W

BUTT JOINT REQUIRED
+55.50
-84.35'LT

NUCLEAR RD

2' PAVED SHOULDER
1' GRAVEL SHOULDER

2'
5'

150
STH 42
155
160

EXIST R/W

L4

SEC
PT ID#: 22-24-K-3
X=263862.748
Y=391979.489

MATCH LINE 160+25.00

160+29 LT
EXTEND PIPE ARCH CORRUGATED STEEL 57x38-INCH, 4-FT
SALVAGE APRON ENDWALL (1)

13'
2'

EXIST R/W

165
STH 42
170
175

2'
5'
10'

R/L STH 42

EXIST R/W

EXISTING C-31-20
+16.32 (TO REMAIN)

MATCH LINE 175+50.00

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 51 E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050203-pn

PLOT DATE : 1/14/2020 2:56 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

LEGEND
SAW CUT
FULL DEPTH REMOVAL

SEC
PT ID#: 22-24-K-4
X=263894.684
Y=394618.286

MATCH LINE 175+50.00

PI: 176+68.08
R/L STH 42
+11.94
-19.00'LT
+90.38
-17.00'LT
53.125'
MGS EAT
+30.38
-21.00'LT
+83.47
-19.00'LT
375'
MGS TYPE K
TLE
EXIST R/W
+58.46
-19.00'LT
+11.55
-21.00'LT
53.125'
MGS EAT
SLOPE INTERCEPT (TYP)
EXIST R/W
+51.57
-16.95'LT
+30.01
-18.95'LT
180
185
190
L5
STH 42
+93.40
0.00'
+86.27
0.00'
2'
5'
3'
3'
+47.01
19.00'RT
+25.45
17.00'RT
SLOPE INTERCEPT (TYP)
TLE
PROPOSED C-31-57
+90.25
+65.45
21.00'RT
+18.54
19.00'RT
EXIST R/W
TLE
+68.53
19.00'RT
+21.62
21.00'RT
53.125'
MGS EAT
53.125'
MGS EAT
+61.69
28.42'RT
EXIST R/W
BUTT JOINT REQUIRED
+10.26
72.10'RT
SEE PLAN/PROFILE AND STRUCTURE PLANS
FOR ADDITIONAL INFORMATION
+13.37
90.88'RT
350'
MGS TYPE K
LAKEVIEW DR
CEMETERY
SLAB
SEPC
SEPC
FLAG
N

MATCH LINE 190+75.00

PI: 196+10.27
EXIST R/W
R/L STH 42
195
200
205
STH 42
2'
5'
3'
3'
EXIST R/W

MATCH LINE 190+75.00

MATCH LINE 206+00.00

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 52	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050204-pn
PLOT DATE : 1/28/2020 1:40 PM
PLOT BY : KIRST, DOUGLAS P
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

LEGEND
SAW CUT
FULL DEPTH REMOVAL

SANDY BAY RD

SEC
PT ID#: 22-24-K-5
X=263937.057
Y=397243.341

BUTT JOINT REQUIRED
+17.22
-105.98'LT

3'

+94.73
-19.47'LT

+33.43
-21.79'LT

53.125'
MGS EAT

+09.98
-21.00'LT

+63.07
-19.00'LT

475'
MGS TYPE K

EXIST R/W

EXISTING C-31-11
+55.61 (TO REMAIN)

+38.05
-19.00'LT

53.125'
MGS EAT

+91.14
-21.00'LT

SLOPE INTERCEPT (TYP)

+31.14
-17.00'LT

+09.58
-19.00'LT

R/L STH 42

EXIST R/W

MATCH LINE 206+00.00

210

215

220

STH 42

L6

3'

+04.99
22.23'RT

+60.81
19.58'RT

+74.97
21.00'RT

+28.09
19.00'RT

SLOPE INTERCEPT (TYP)

EXIST R/W

+78.08
19.00'RT

+31.17
21.00'RT

+49.61
19.00'RT

+71.17
17.00'RT

EXIST R/W

2'

5'

53.125'
MGS EAT

550'
MGS TYPE K

53.125'
MGS EAT

SANDY BAY RD

MATCH LINE 221+25.00

MATCH LINE 221+25.00

EXIST R/W

R/L STH 42

225

STH 42

230

235

2'

5'

EXIST R/W

SLOPE INTERCEPT (TYP)

+82.28
-17.00'LT

+03.84
-19.00'LT

53.125'
MGS EAT

+22.28
-21.00'LT

+75.37

512.5'
MGS TYPE K

-19.00'LT

+92.27
19.00'RT

SLOPE INTERCEPT (TYP)

TLE

+70.71
17.00'RT

+10.71
21.00'RT

53.125'
MGS EAT

SEC
PT ID#: 22-24-K-6
X=263976.654
Y=399891.129

MATCH LINE 236+50.00

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 53	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050205-pn

PLOT DATE : 1/14/2020 2:56 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

LEGEND
SAW CUT
FULL DEPTH REMOVAL

MATCH LINE 236+50.00

512.5'
MGS TYPE K

53.125'
MGS EAT

EXISTING C-31-12
+61.18 (TO REMAIN)

+87.87
19.00'LT

+40.96
21.00'LT

+60.96
19.00'LT

SLOPE INTERCEPT (TYP)

+29.40
21.00'LT

EXIST R/W

PI: 244+15.09

R/L STH 42

240

245

250

STH 42

L7

+47.82
19.00'RT

2'

5'

PI: 250+05.13

+63.80
19.01'RT

TLE

EXIST R/W

SLOPE INTERCEPT (TYP)

TLE

+76.29
19.00'RT

+29.38
21.00'RT

+69.38
17.00'RT

EXIST R/W

512.5'
MGS TYPE K

53.125'
MGS EAT

MATCH LINE 251+75.00

MATCH LINE 251+75.00

CTH G

BUTT JOINT REQUIRED
+15.22
-141.33'LT

SEC
PT ID#: 22-24-K-7
X=264001.439
Y=402539.545

EXIST R/W

EXIST R/W

255

260

265

L8

STH 42

2'

5'

3'

3'

R/L STH 42

EXIST R/W

PI: 263+69.95

EXIST R/W

BUTT JOINT REQUIRED
+10.87
83.31'RT

LAKESHORE RD

MATCH LINE 267+00.00

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 54	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050206-pn

PLOT DATE : 1/14/2020 2:56 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

LEGEND
SAW CUT
FULL DEPTH REMOVAL

N

MATCH LINE 267+00.00

R/L STH 42

EXIST R/W

270 275 STH 42 280

L9

2'
5'

EXIST R/W

SIGN

MATCH LINE 282+25.00

MATCH LINE 282+25.00

N

SLOPE INTERCEPT (TYP)

53.125'
MGS EAT

600'
MGS TYPE K

+68.57
-19.00'LT

+87.01
-21.00'LT

+40.09
-19.00'LT

+47.01
-17.00'LT

EXIST R/W

R/L STH 42

PI: 292+26.47

285 STH 42 290 295

2'
5'

+11.48
17.00'RT

+22.29
18.55'RT

+24.95
18.92'RT

+45.66
21.00'RT

+98.79
19.00'RT

+56.68
21.15'RT

EXIST R/W

SLOPE INTERCEPT (TYP)

53.125'
MGS EAT

662.5'
MGS TYPE K

SEC
PT ID#: 22-24-K-8
X=264009.451
Y=405182.191

MATCH LINE 297+50.00

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 55	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050207-pn

PLOT DATE : 1/14/2020 2:56 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

LEGEND
SAW CUT
FULL DEPTH REMOVAL

MATCH LINE 297+50.00

600'
MGS TYPE K

EXISTING B-31-10
+30.15 (TO REMAIN)

53.125'
MGS EAT

+40.08
-19.03'LT

+93.17
-21.00'LT

SLOPE INTERCEPT (TYP)

+33.17
-17.00'LT

+11.61
-19.00'LT

R/L STH 42

EXIST R/W

300

STH 42

305

310

SEC
PT ID#: 22-24-K-9
X=264014.394
Y=407820.987

BUTT JOINT REQUIRED
+82.30
-80.03'LT

OLD SETTLERS RD

3'

3'

MATCH LINE 312+75.00

+61.32
19.00'RT

+14.41
21.00'RT

+54.41
17.00'RT

+32.85
19.00'RT

2'

5'

EXIST R/W

3'

3'

675'
MGS TYPE K

53.125'
MGS EAT

SLOPE INTERCEPT (TYP)

BUTT JOINT REQUIRED
+94.27
101.13'RT

OLD SETTLERS RD

5

5

MATCH LINE 312+75.00

L10

R/L STH 42

EXIST R/W

315

STH 42

320

325

2'

5'

EXIST R/W

MATCH LINE 328+00.00

SEPV
SEPV
SEPTIC

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 56	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050208-pn

PLOT DATE : 1/14/2020 2:56 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND
SAW CUT
FULL DEPTH REMOVAL

N

SLAB

SIGN

R/L STH 42

EXIST R/W

330 335 STH 42 340

2" 5"

EXIST R/W

SEC
PT ID#: 22-24-K-10
X=264022.306
Y=410462.990

PI: 338+42.00

MATCH LINE 328+00.00

MATCH LINE 343+25.00

5

5

SEPTIC

SEPV

CONVEYOR

N

SIGN

R/L STH 42

EXIST R/W

345 350 STH 42 355

2" 5"

EXIST R/W

MATCH LINE 343+25.00

MATCH LINE 358+50.00

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 57	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050209-pn

PLOT DATE : 1/14/2020 2:56 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND
SAW CUT
FULL DEPTH REMOVAL

SEC
PT ID#: 22-24-K-11
X=264038.876
Y=413104.878

MATCH LINE 358+50.00

CTH J

BUTT JOINT REQUIRED
+86.29
-89.74'LT

R/L STH 42

EXISTING PLE

62.5'
MGS TYPE K

REMOVE EXCESS MATERIAL
FROM B-31-16

53.125'
MGS EAT

50'
MGS

137.5'
MGS TYPE K

53.125'
MGS EAT

+33.72
-21.00'LT

EXISTING DRAIN TILE
RIPRAP LIGHT
SEE CONSTRUCTION DETAIL
STA. 369+44, 42.2-FT LT

PLE

+74.84
-17.60'LT

SLOPE INTERCEPT (TYP)

+52.16
-19.00'LT

EXIST R/W

+77.56
21.00'LT

+30.69
19.00'LT

+93.19
19.00'LT

+43.19
19.00'LT

+80.63
19.00'LT

360

365

STH 42

L11

370

2'

5'

EXIST R/W

3'

3'

+56.09
21.00'RT

+09.17
19.00'RT

TLE

+21.67
19.00'RT

+71.67
19.00'RT

TLE

+96.66
19.00'RT

+49.75
21.00'RT

EXIST R/W

+89.75
17.00'RT

+68.19
19.00'RT

53.125'
MGS EAT

112.5'
MGS TYPE K

50'
MGS

325'
MGS TYPE K

53.125'
MGS EAT

EXISTING B-31-16
+32.78 (TO REMAIN)

SLOPE INTERCEPT (TYP)

EXISTING DRAIN TILE
(TO REMAIN)

BUTT JOINT REQUIRED
+82.52
73.04'RT

LAKE RD

EXISTING PLE

REMOVE EXCESS MATERIAL
FROM B-31-16

MATCH LINE 373+75.00

MATCH LINE 358+50.00

5

5

MATCH LINE 373+75.00

EXIST R/W

R/L STH 42

375

380

STH 42

385

2'

5'

EXIST R/W

MATCH LINE 389+00.00

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 58	E

LEGEND
SAW CUT
FULL DEPTH REMOVAL

MATCH LINE 389+00.00

390

395

STH 42

400

R/L STH 42

EXIST R/W

EXIST R/W

2"

5"

SEC
PT ID#: 22-24-K-12
X=264057.189
Y=415749.594

SEE PLAN/PROFILE AND STRUCTURE PLANS
FOR ADDITIONAL INFORMATION

SLOPE INTERCEPT (TYP.)

TLE

+32.10
0.00'

TLE

SLOPE INTERCEPT (TYP.)

24-INCH CMCP
SEE PLAN & PROFILE FOR
ADDITIONAL INFORMATION

PROPOSED C-31-56
+07.50

MATCH LINE 404+25.00

MATCH LINE 404+25.00

SLOPE INTERCEPT (TYP.)

405

+82.10
0.00'

TLE

SLOPE INTERCEPT (TYP.)

R/L STH 42

EXIST R/W

410

STH 42

C3

415

2"

5"

EXIST R/W

PC: 408+79.07

PT: 415+47.44

2' PAVED SHOULDER
1' GRAVEL SHOULDER

BUTT JOINT REQUIRED
+23.60
-97.42'LT

TOWNLINE RD

SEC
PT ID#: 23-24-K-1
X=264055.203
Y=418444.549

3'

L12

3'

SEC
PT ID#: 22-24-K-13
X=264074.393
Y=418444.689

BUTT JOINT REQUIRED
+15.98
91.63'RT

TOWNLINE RD

MATCH LINE 419+50.00

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 59	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050211-pn

PLOT DATE : 1/14/2020 2:56 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

LEGEND
SAW CUT
FULL DEPTH REMOVAL

N

2' PAVED SHOULDER
1' GRAVEL SHOULDER
PC: 422+94.25
PT: 426+66.89
R/L STH 42
EXIST R/W
STH 42
C4
420
425
430
2"
5"
EXIST R/W
MATCH LINE 419+50.00
MATCH LINE 434+75.00

5

5

N

SIGN
R/L STH 42
L13
EXIST R/W
PI: 444+76.51
435
440
STH 42
445
2"
5"
EXIST R/W
SIGN
SIGN
SEC
PT ID#: 23-24-K-2
X=264028.574
Y=421092.415
MATCH LINE 434+75.00
MATCH LINE 450+00.00

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 60	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050212-pn
PLOT DATE : 1/14/2020 2:57 PM
PLOT BY : KIRST, DOUGLAS P
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

LEGEND
SAW CUT
FULL DEPTH REMOVAL

MATCH LINE 450+00.00

L14

R/L STH 42

EXIST R/W

STH 42

455

460

465

2%

5%

EXIST R/W

PC: 462+86.48

MATCH LINE 465+00.00

SEPV

SEPV

FLAG

CONVEYOR

5

5

BUTT JOINT REQUIRED
+87.68
-77.85'LT

KROKA RD

3'

3'

JUNCTION C

C5

SE=8.0%

EXIST R/W

STH 42

470

475

R/L STH 42

EXIST R/W

PT: 475+80.93

L15

2%

10%

SEPTIC

SEPV

SEPV

ANT

GUY

GUY

SIGN

2%

6%

2%

MATCH LINE 465+00.00

480

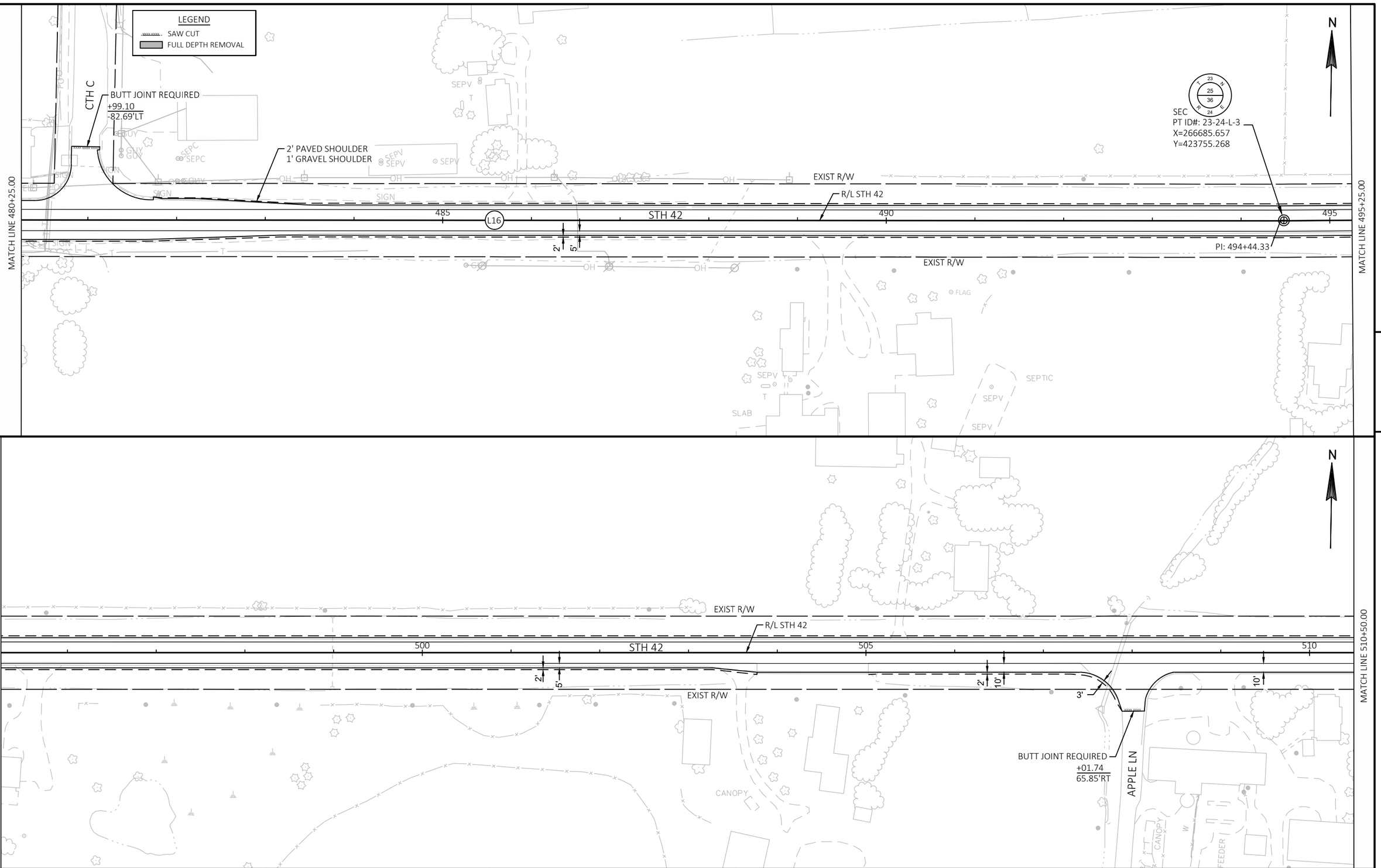
MATCH LINE 480+25.00

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 61	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050213-pn

PLOT DATE : 1/14/2020 2:57 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 62	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050214-pn

PLOT DATE : 1/14/2020 2:57 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

LEGEND
SAW CUT
FULL DEPTH REMOVAL

HOSPITAL RD

BUTT JOINT REQUIRED
+14.63
-145.90'LT

2' PAVED SHOULDER
1' GRAVEL SHOULDER

L17

EXIST R/W

R/L STH 42

STH 42

515

520

525

SEC
PT ID#: 23-25-A-3
X=269348.799
Y=423795.293

2'
10'
2'
5'
3'
2'
5'

EXIST R/W

2' PAVED SHOULDER
1' GRAVEL SHOULDER

BUTT JOINT REQUIRED
+13.94
75.73'RT

MILE RD

MATCH LINE 510+50.00

MATCH LINE 525+50.00

N

5

5

FEEDER

RUINS

CONVEYOR

SEPV

SEPTIC

SEPTIC

CATTLE PASS
CMCP 72"
(TO REMAIN)

L18

EXIST R/W

530

535

540

STH 42

PI: 528+36.54

2'
5'

R/L STH 42

EXIST R/W

PC: 536+18.34

MATCH LINE 525+50.00

MATCH LINE 540+50.00

N

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 63	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050215-pn

PLOT DATE : 1/14/2020 2:57 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

LEGEND
SAW CUT
FULL DEPTH REMOVAL

MATCH LINE 540+50.00

C6

SE=7.6%

EXIST R/W

R/L STH 42

STH 42

545

550

555

3'

3'

PT: 546+03.56

PC: 553+43.02

2'

5'

EXIST R/W

+06.44
124.52'RT

LOVERS LN

SIGN

L19

MATCH LINE 555+50.00

5

5

MATCH LINE 555+50.00

R/L STH 42

EXIST R/W

C7

SE=5.2%

560

565

570

STH 42

2'

5'

3'

2'

5'

EXIST R/W

2' PAVED SHOULDER
1' GRAVEL SHOULDER

BUTT JOINT REQUIRED

+17.68
80.12'RT

LAKESHORE RD

SIGN

SEPV

MATCH LINE 570+75.00

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 64	E

LEGEND
SAW CUT
FULL DEPTH REMOVAL

N

MATCH LINE 570+75.00

PT: 576+29.77

CATTLE PASS
CMCP 72"
(TO REMAIN)

R/L STH 42

EXIST R/W

PC: 584+61.32

575

STH 42

580

585

L20

2%

5%

EXIST R/W

MATCH LINE 586+00.00

SIGN

SEPTIC

SEPV

A/C

5

5

N

MATCH LINE 586+00.00

C8

SE=4.7%

EXIST R/W

R/L STH 42

590

595

600

STH 42

PT: 589+28.63

2%

5%

EXIST R/W

L21

MATCH LINE 601+25.00

SIGN

CANOPY

SEPTIC

SEPV

FLAG

MH

W

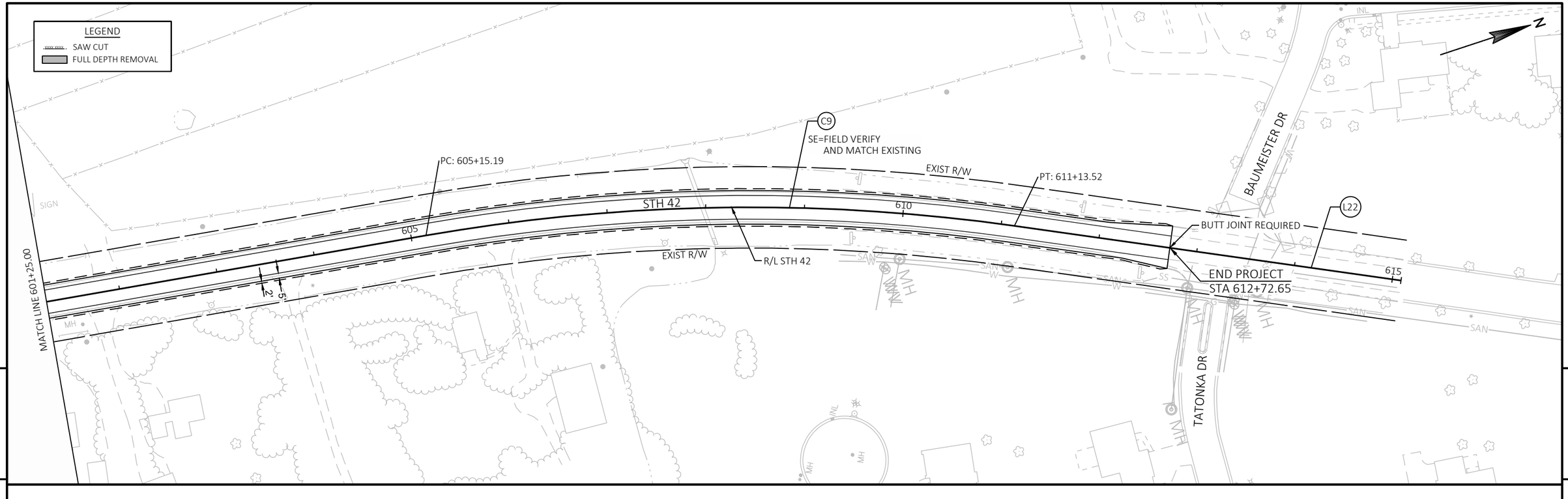
T

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	PLAN SHEETS	SHEET 65	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050217-pn

PLOT DATE : 1/14/2020 2:57 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



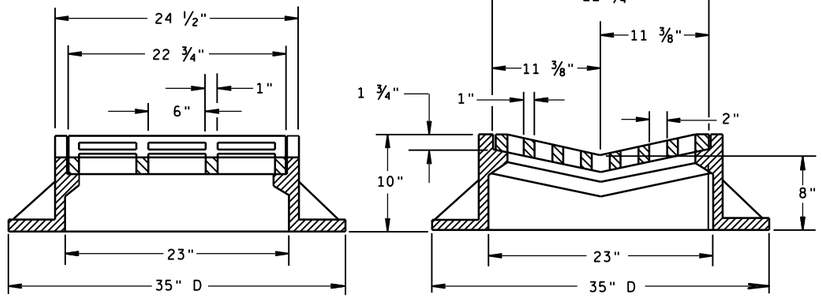
STH 42							
Number	Radius	SE	Length	Line/Chord Direction	Start Station	Northing	Easting
L1		---	1067.20	N29°43'21"E	86+50.29	385531.675	262605.906
C1	2864.93	4.7%	595.17	N23°46'16"E	97+17.49	386458.468	263135.019
L2		---	833.91	N17°49'11"E	103+12.65	387002.164	263374.489
C2	4583.75	3.0%	1406.44	N09°01'46"E	111+46.56	387796.066	263629.683
L3		---	2339.53	N00°14'22"E	125+53.00	389179.638	263849.550
L4		---	2775.55	N00°36'30"E	148+92.53	391519.142	263859.327
L5		---	1942.19	N01°02'29"E	176+68.08	394294.532	263888.791
L6		---	4804.82	N00°49'09"E	196+10.27	396236.401	263924.087
L7		---	590.04	N00°29'07"E	244+15.09	401040.733	263992.775
L8		---	1364.82	N00°11'04"E	250+05.13	401630.753	263997.772
L9		---	2856.52	N00°08'04"E	263+69.95	402995.570	264002.166
L10		---	4615.52	N00°10'10"E	292+26.47	405852.082	264008.873
L11		---	7037.07	N00°22'19"E	338+42.00	410467.584	264022.526
C3	22918.33	NC	668.37	N00°27'49"W	408+79.07	417504.509	264068.192
L12		---	746.81	N01°17'57"W	415+47.44	418172.838	264062.783
C4	22918.33	NC	372.64	N00°50'00"W	422+94.25	418919.456	264045.852

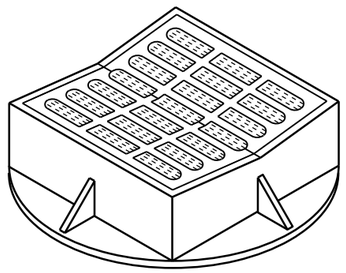
STH 42							
Number	Radius	SE	Length	Line/Chord Direction	Start Station	Northing	Easting
L13		---	1809.62	N00°22'03"W	426+66.89	419292.049	264040.432
L14		---	1809.98	N00°48'42"W	444+76.51	421101.630	264028.824
C5	819.02	8.0%	1294.45	N44°27'57"E	462+86.48	422911.424	264003.188
L15		---	225.55	N89°44'36"E	475+80.93	423742.037	264818.458
L16		---	1637.85	N89°35'28"E	478+06.48	423743.047	265044.006
L17		---	3392.21	N89°07'57"E	494+44.33	423754.737	266681.811
L18		---	781.80	N89°51'31"E	528+36.54	423806.100	270073.632
C6	1432.69	7.6%	985.22	N70°09'30"E	536+18.34	423808.030	270855.429
L19		---	739.46	N50°27'28"E	546+03.56	424135.888	271764.010
C7	2546.64	5.2%	2286.75	N24°44'01"E	553+43.02	424606.664	272334.251
L20		---	831.55	N00°59'27"W	576+29.77	426614.557	273259.202
C8	2864.93	4.7%	467.31	N03°40'55"E	584+61.32	427445.983	273244.823
L21		---	1586.56	N08°21'18"E	589+28.63	427911.810	273274.800
C9	1910.08	MATCH	598.33	N17°19'44"E	605+15.19	429481.528	273505.333
L22		---	395.34	N26°18'10"E	611+13.52	430050.369	273682.822

Standard Detail Drawing List

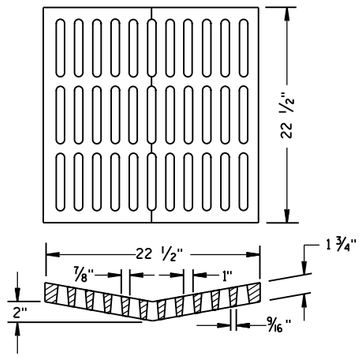
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
12A03-10	NAME PLATE (STRUCTURES)
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C19-02	HMA LONGITUDINAL JOINTS
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL

6



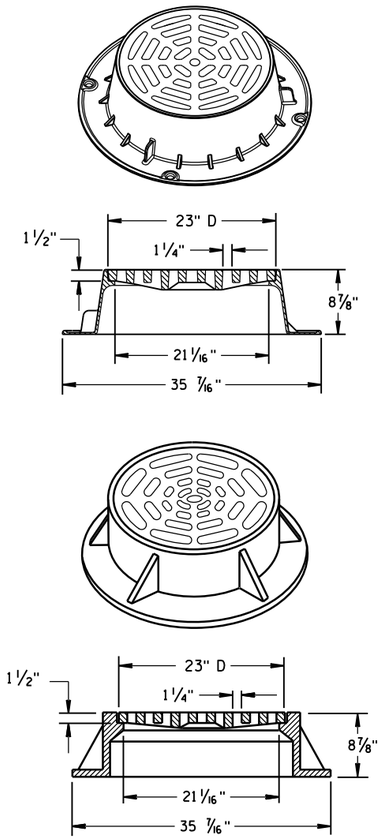


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

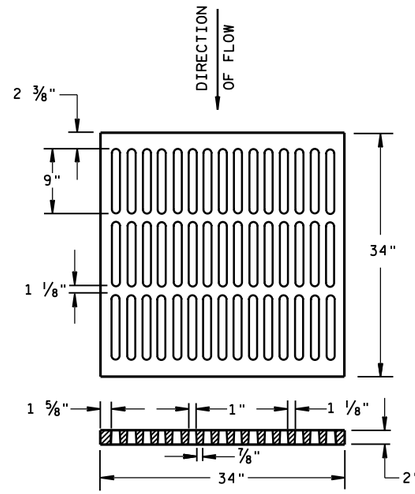
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

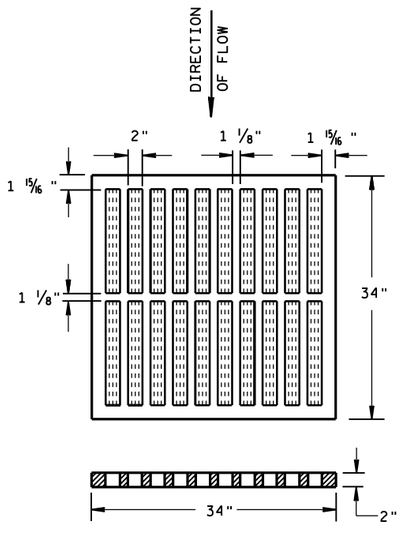
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



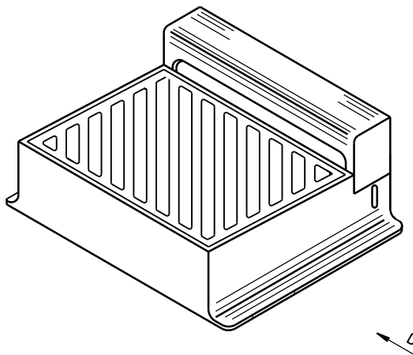
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

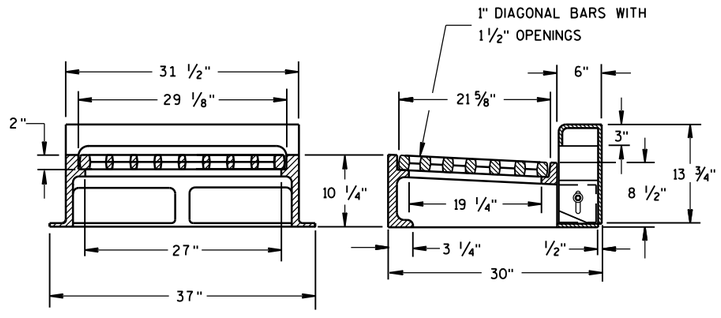


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

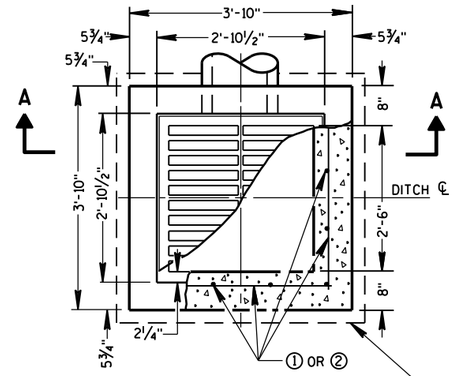
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

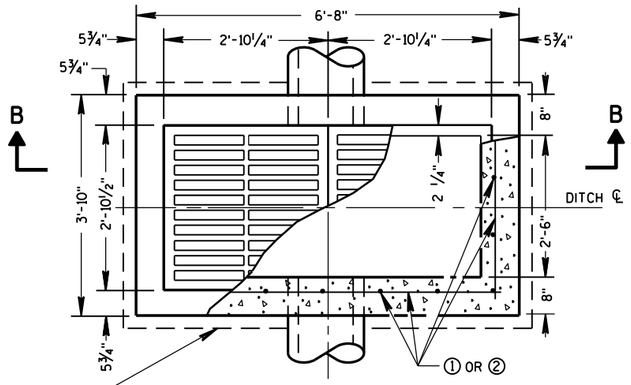
APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 A 5-19b

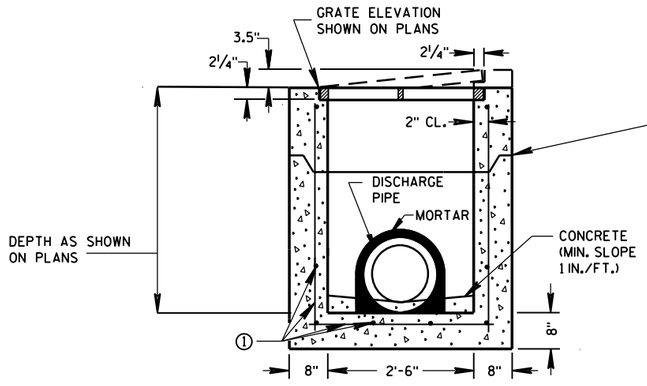


PLAN VIEW

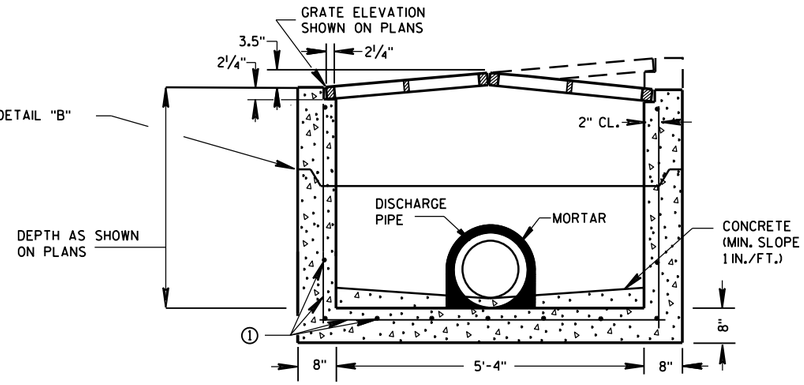


PLAN VIEW

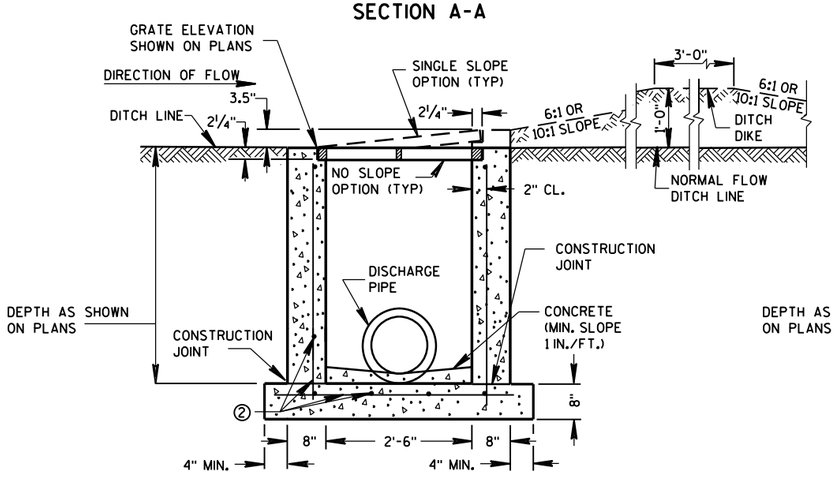
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



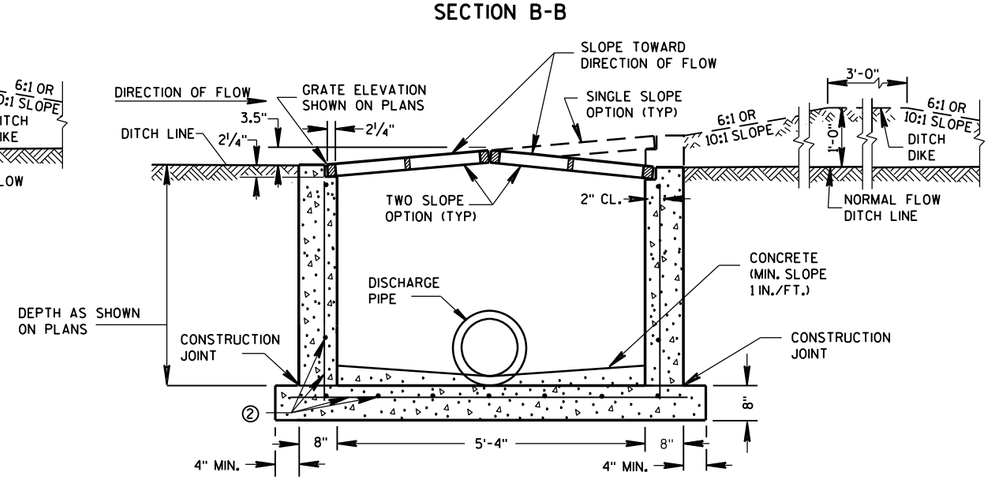
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

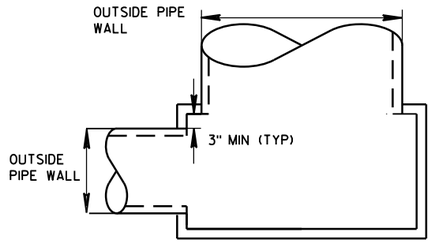
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

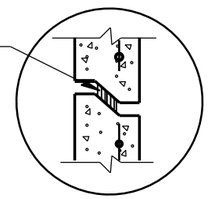
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



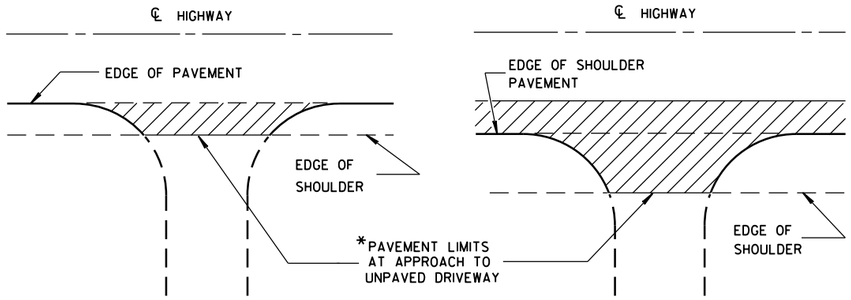
DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI ENT
FHWA

6
S.D.D. 8 C 8-2

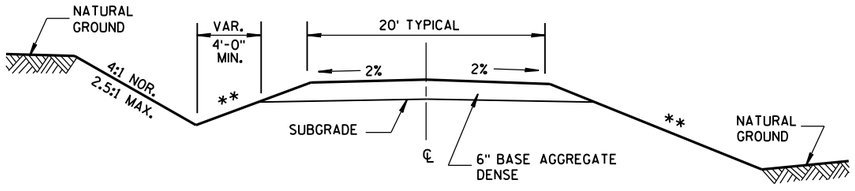


*WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB & GUTTER OR SIDEWALK)

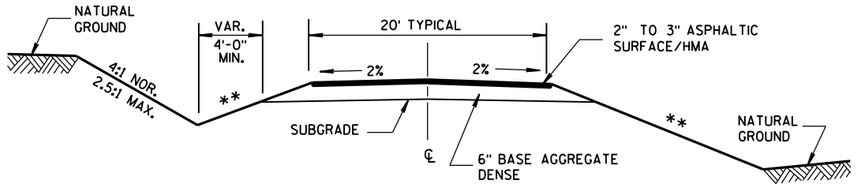


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

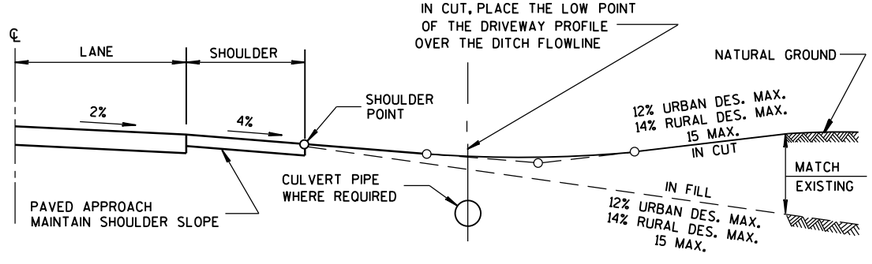
** SLOPE CAN VARY WITH SPEED. SEE 11-45-2.6.2.

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥35 TO <60	6:1
≥60	10:1



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE



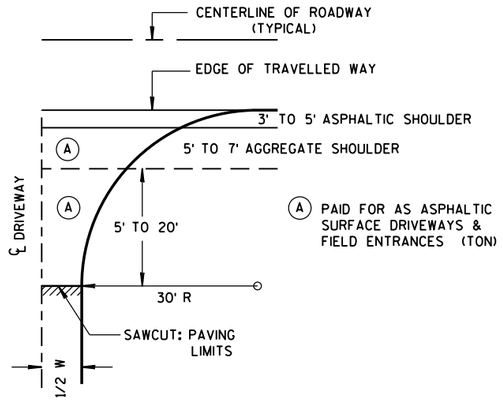
TYPICAL DRIVEWAY PROFILES

DRIVEWAYS WITHOUT CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

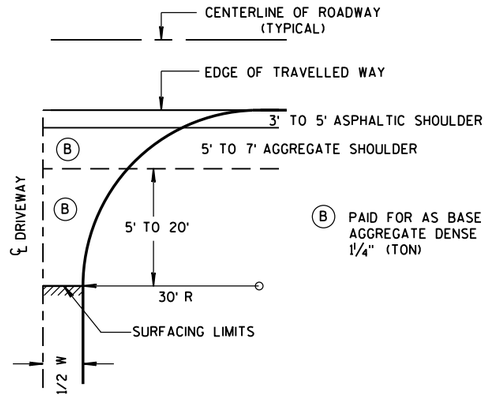
APPROVED
December, 2016 — /S/ Rodney Taylor
DATE — ROADWAY STANDARDS UNIT SUPERV — ENT
FHWA

6
S.D.D. 8 D 21-1



PLAN VIEW
HALF SECTION

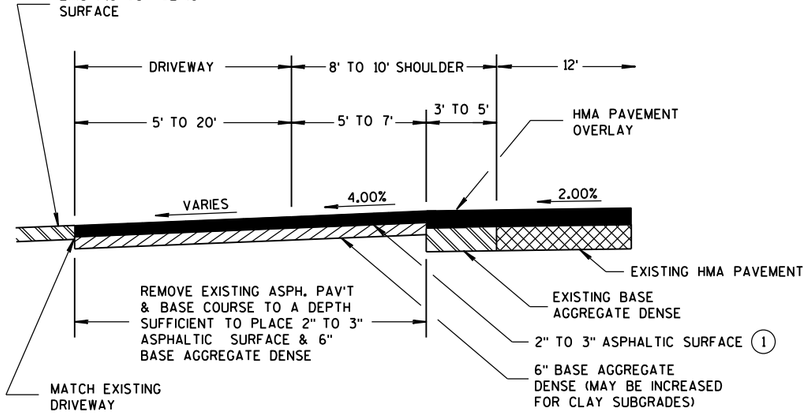
W MIN. = 16'
W MAX. = 24'



PLAN VIEW
HALF SECTION

GENERAL NOTES

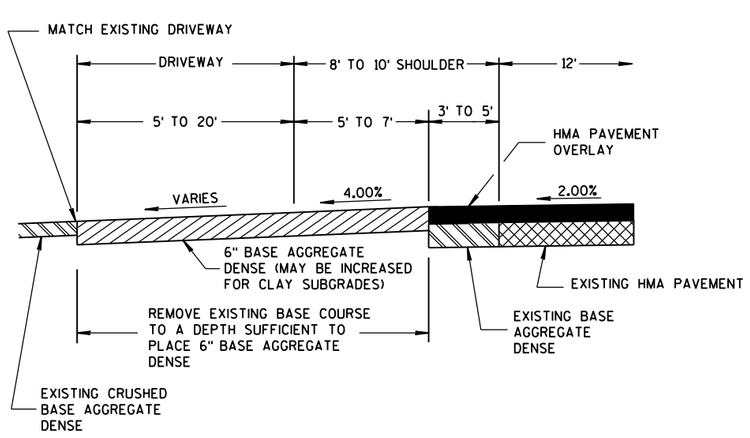
(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PROFILE VIEW

RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS



PROFILE VIEW

RURAL ENTRANCE WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

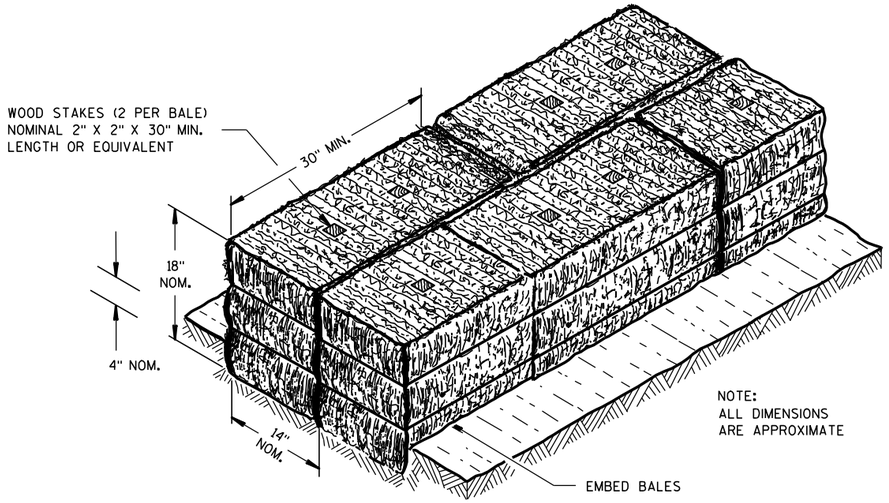
APPROVED
December, 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERV
ENT
FHWA

6

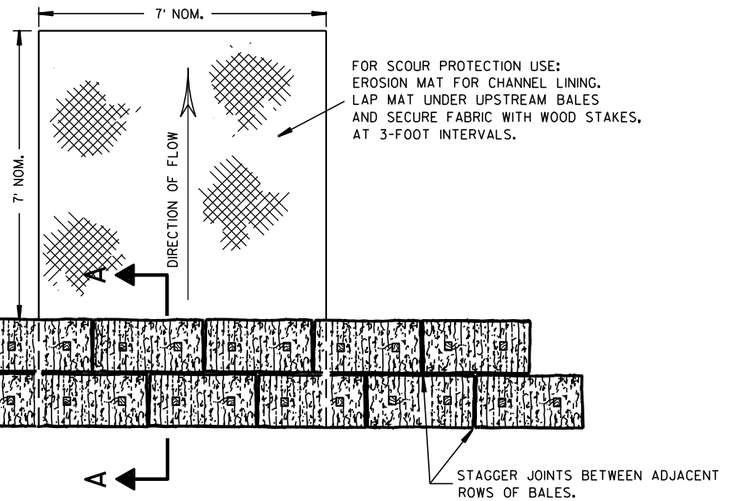
S.D.D. 8 D 22-1

6

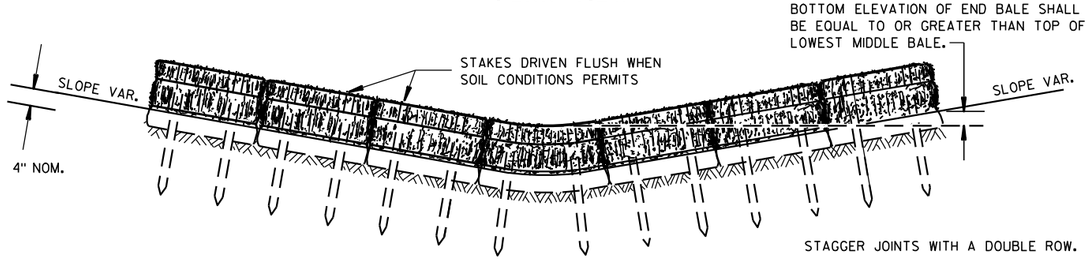
S.D.D. 8 D 22-1



SECTION A-A



PLAN VIEW



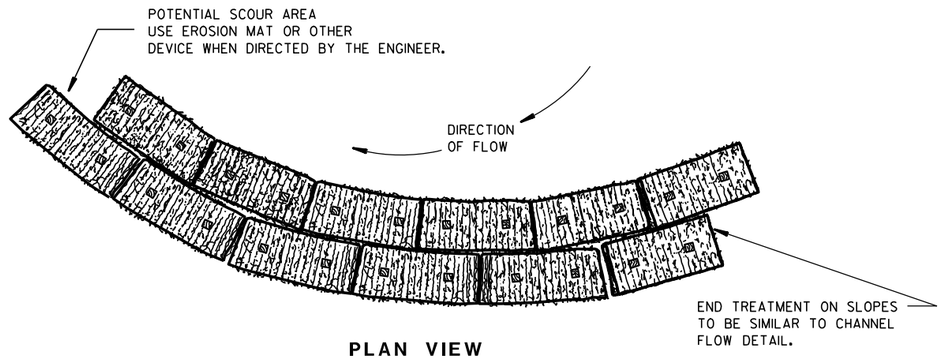
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

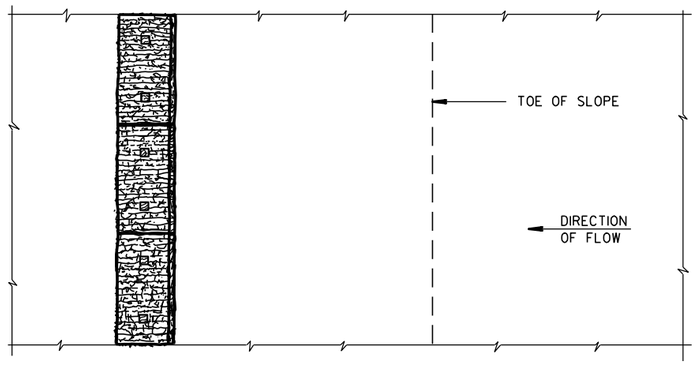
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

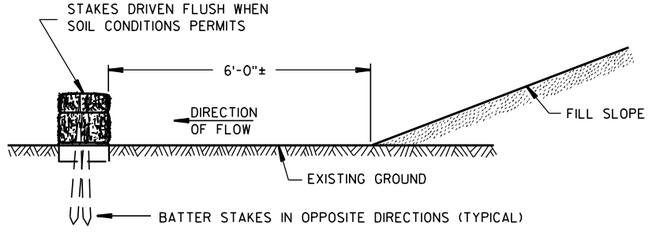


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

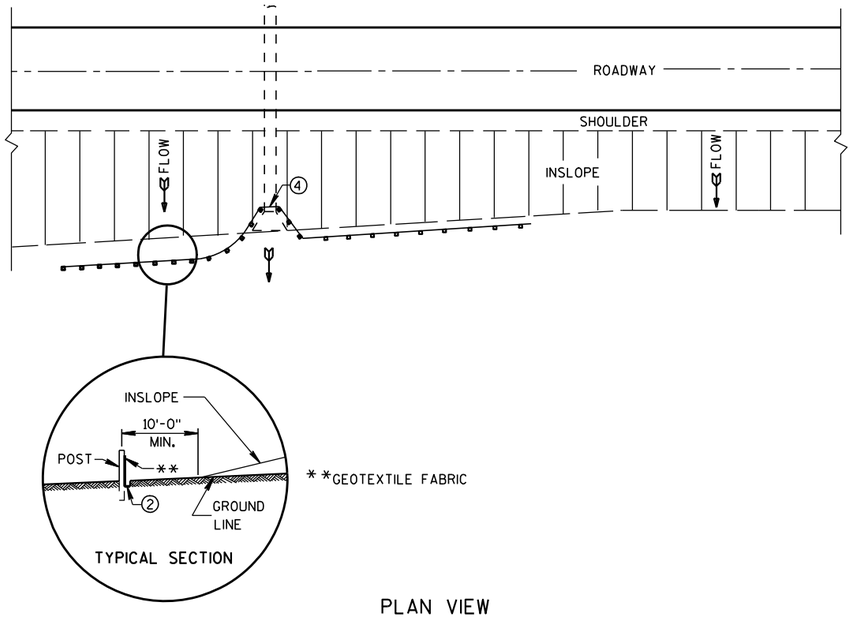
APPROVED

6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

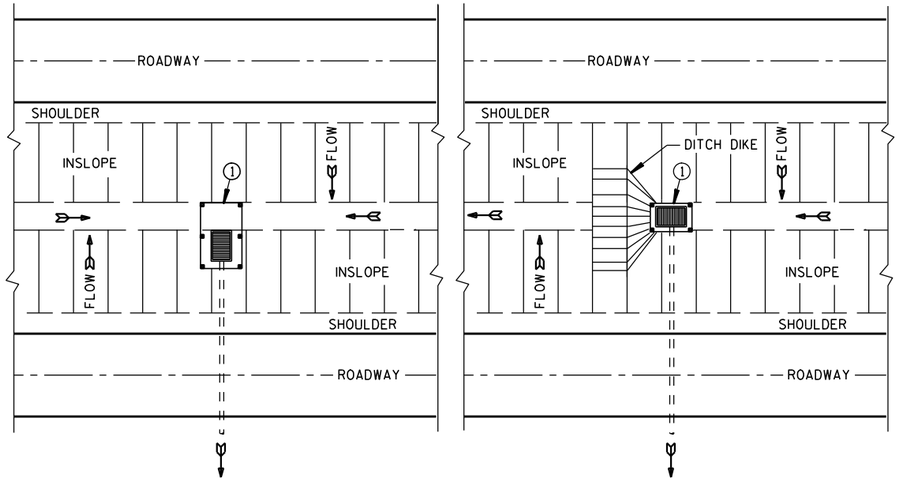
FHWA

6
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



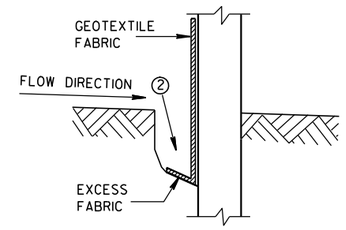
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

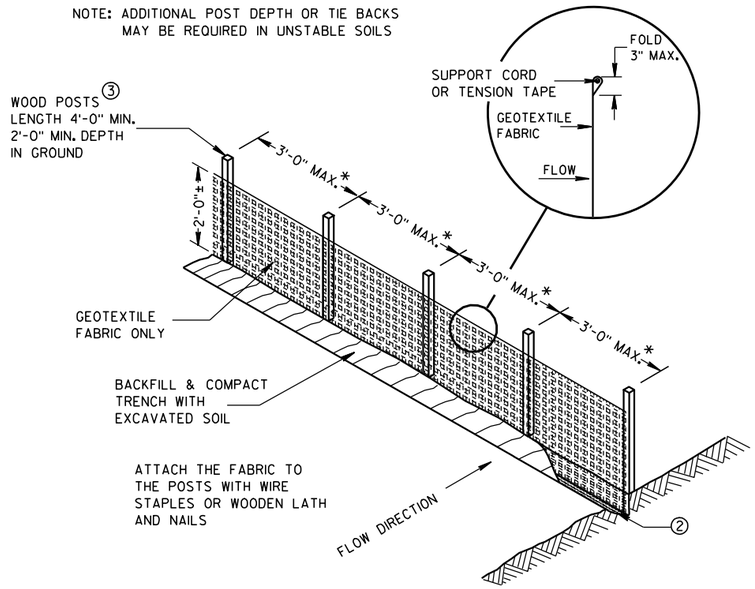
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

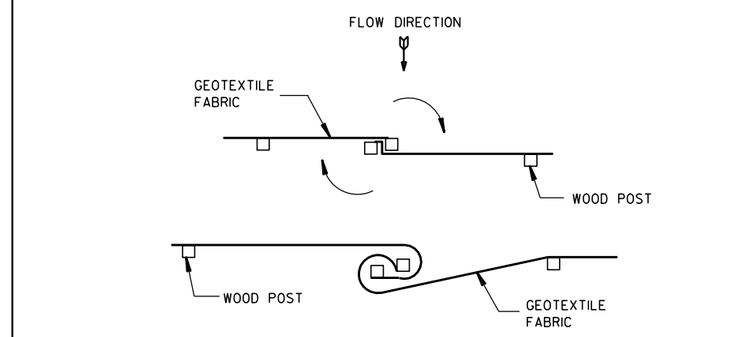
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



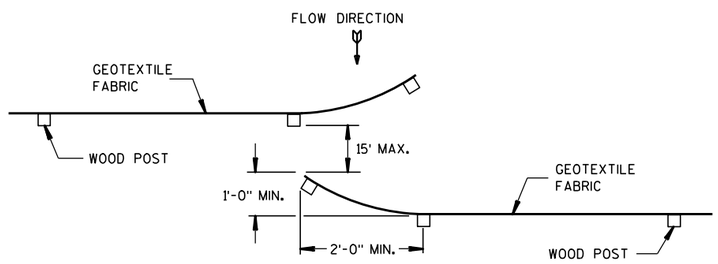
TRENCH DETAIL



SILT FENCE

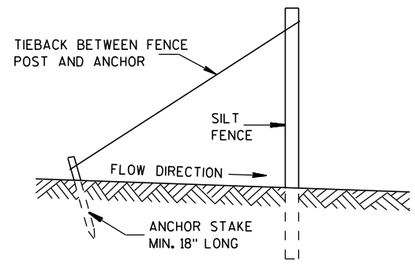


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

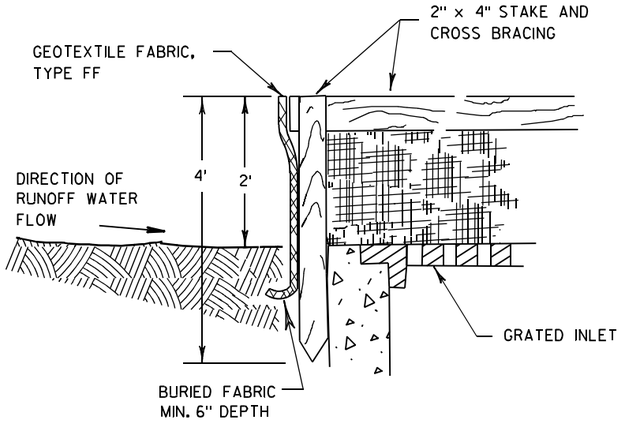
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

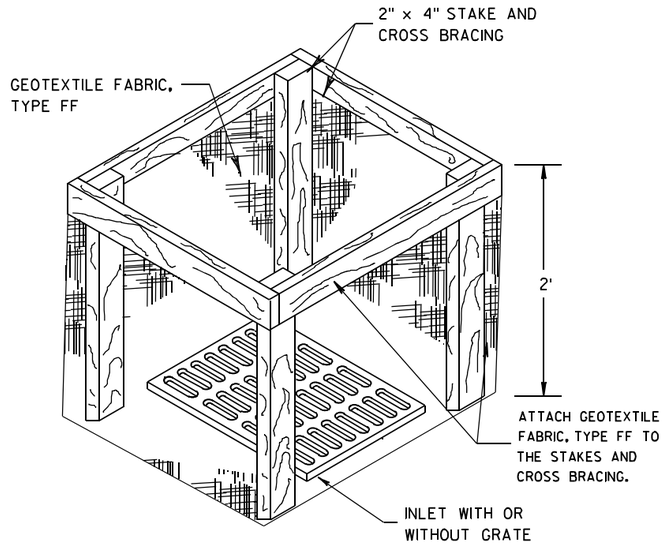
6

S.D.D. 8 E 9-6

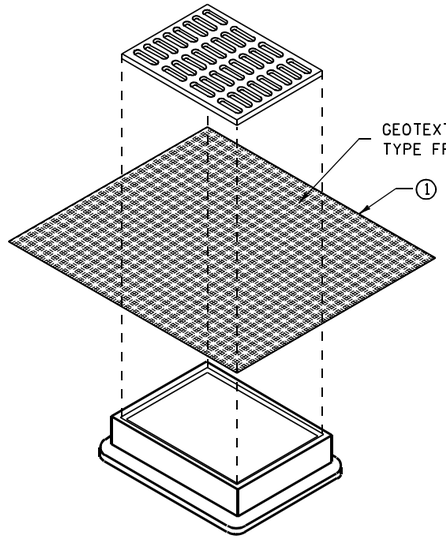
6

S.D.D. 8 E 9-6



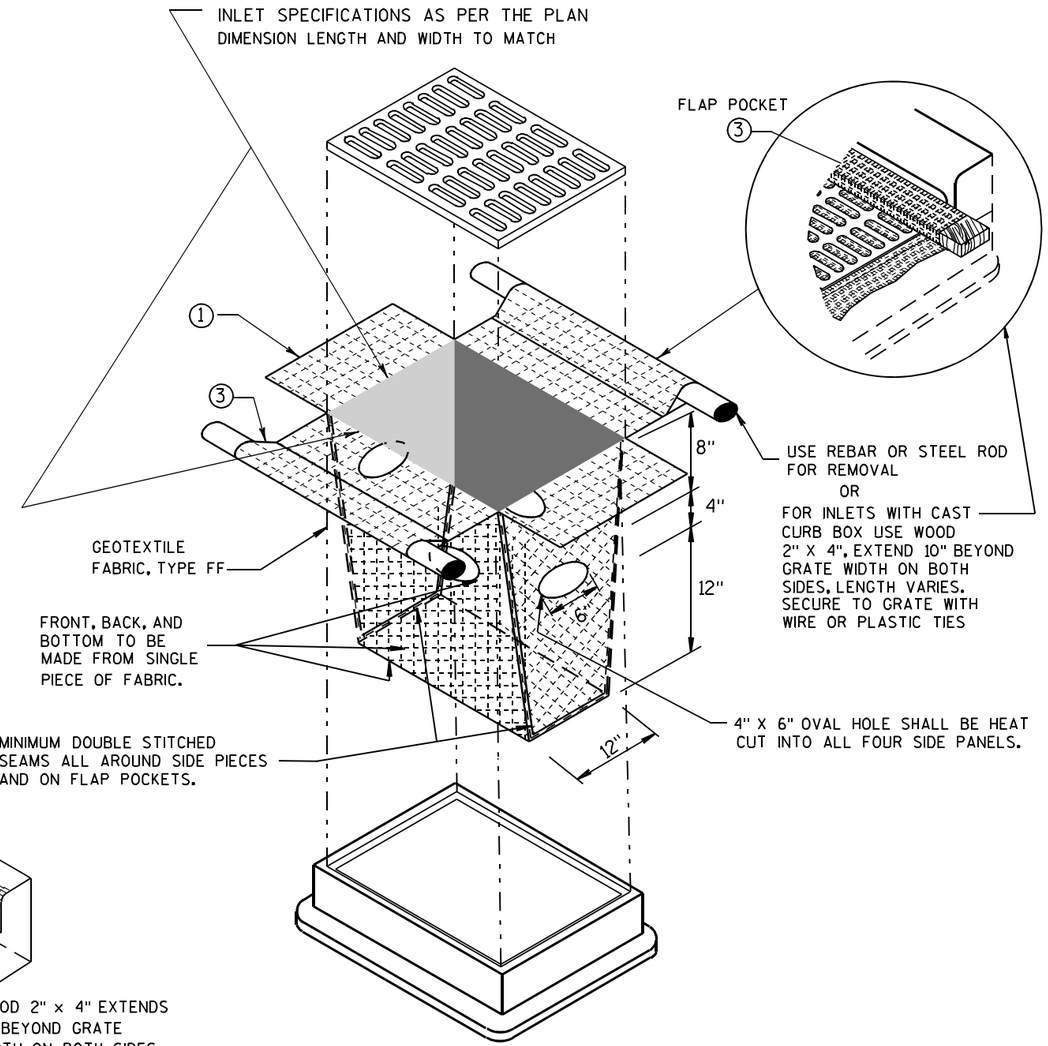


INLET PROTECTION, TYPE A



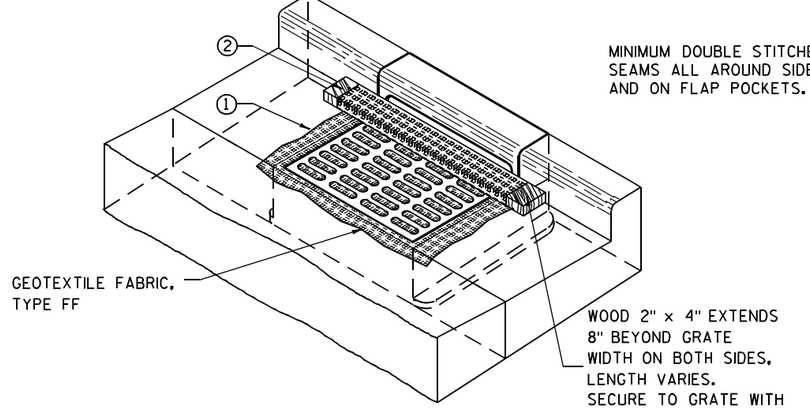
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

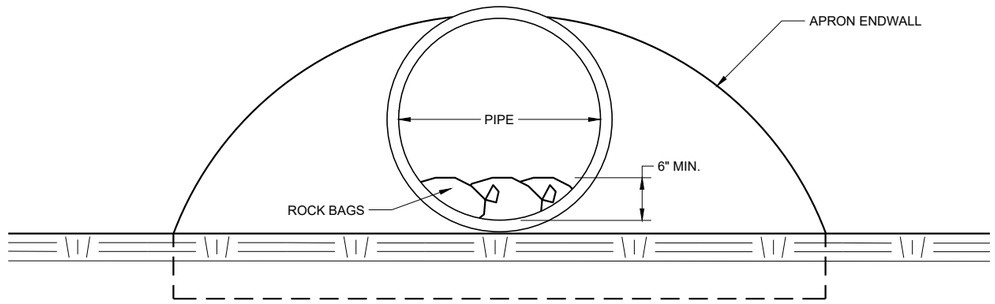
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

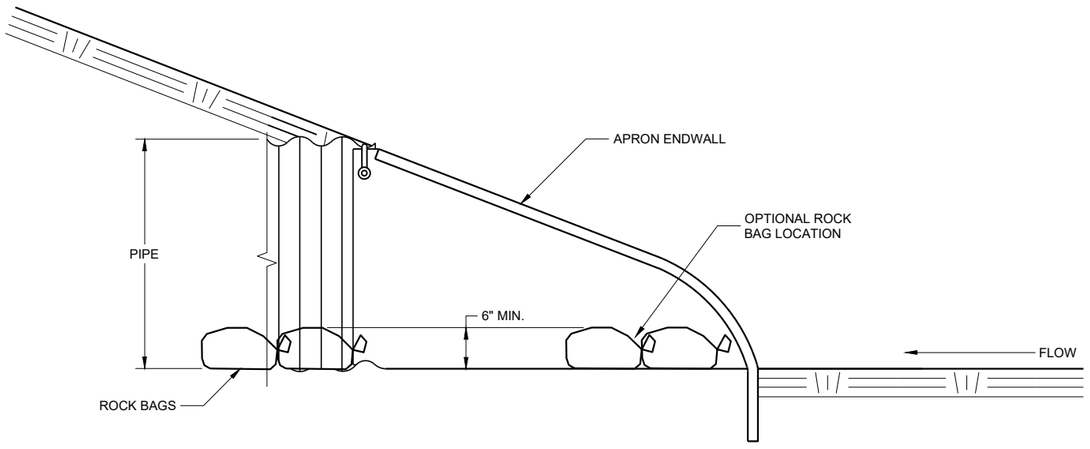
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Daniel Schave
EROSION CONTROL ENGI

FHWA

6

SDD 08E15 - 01

6

SDD 08E15 - 01

METAL APRON ENDWALLS

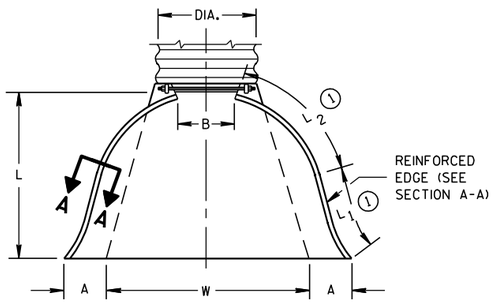
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

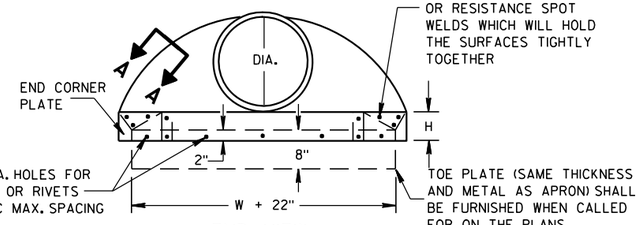
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24-30 **	* 72-78 **	* 21-27 **	99	102	5 1/2	2 to 1
72	7	* 24-36 **	78	21	99	108	6	2 to 1
78	7 1/2	* 24-36 **	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

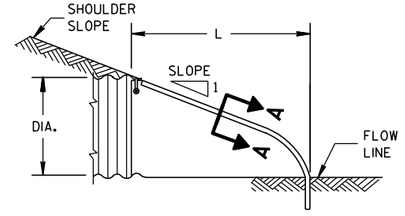
* MINIMUM
** MAXIMUM



PLAN VIEW

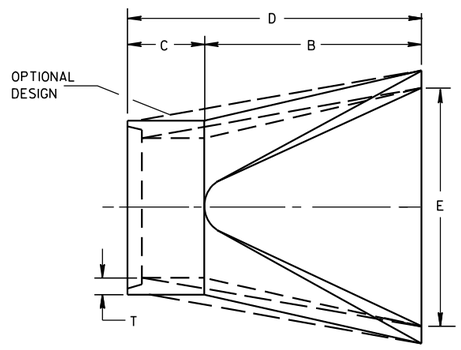


END VIEW

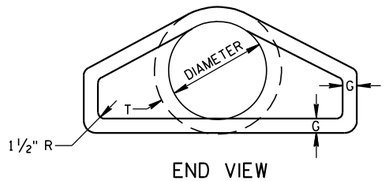


SIDE ELEVATION

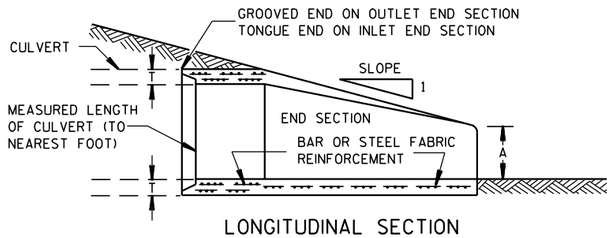
METAL ENDWALLS



PLAN

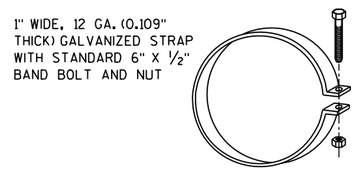


END VIEW



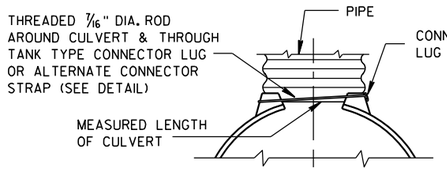
LONGITUDINAL SECTION

CONCRETE ENDWALLS

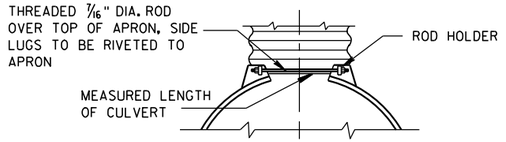


ALTERNATE FOR TYPE 1 CONNECTION

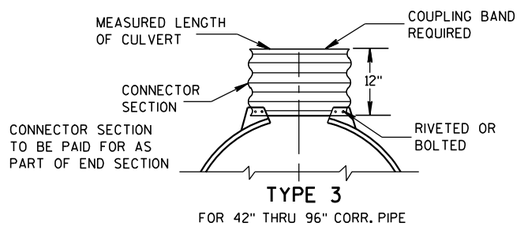
END SECTION CONNECTOR STRAP



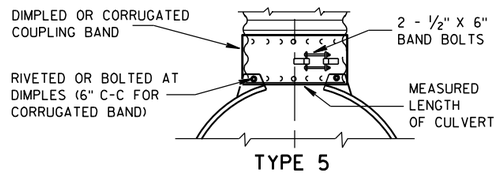
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

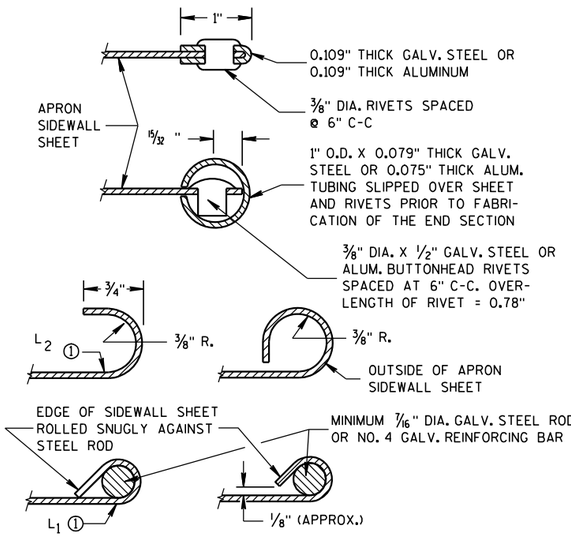
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

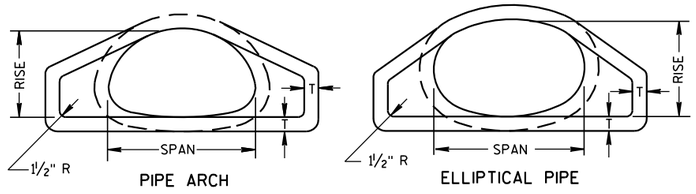
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

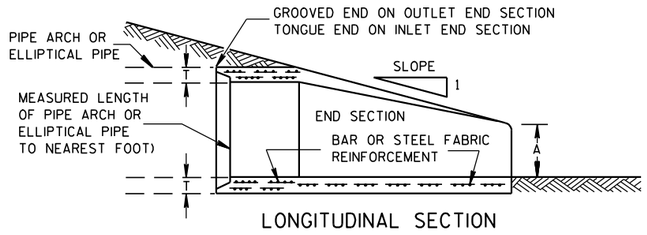
APPROVED
11/30/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

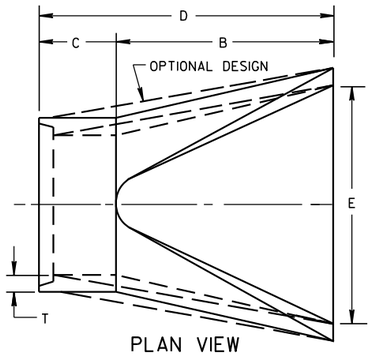
S.D.D. 8 F 1-11



END VIEW

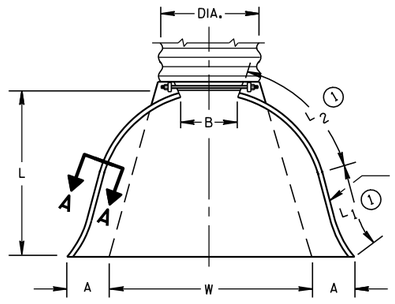


LONGITUDINAL SECTION

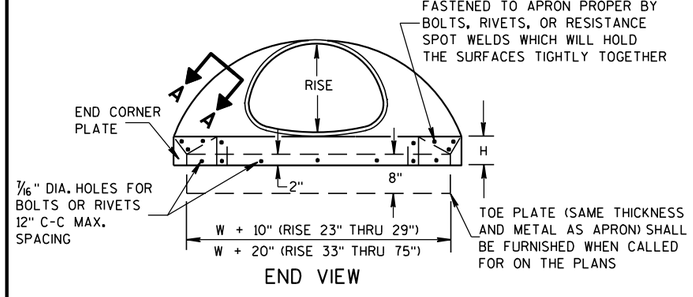


PLAN VIEW

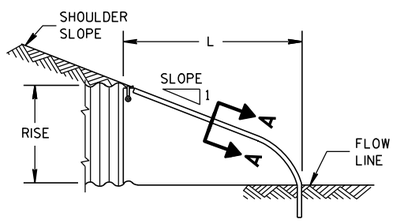
CONCRETE ENDWALLS



PLAN VIEW

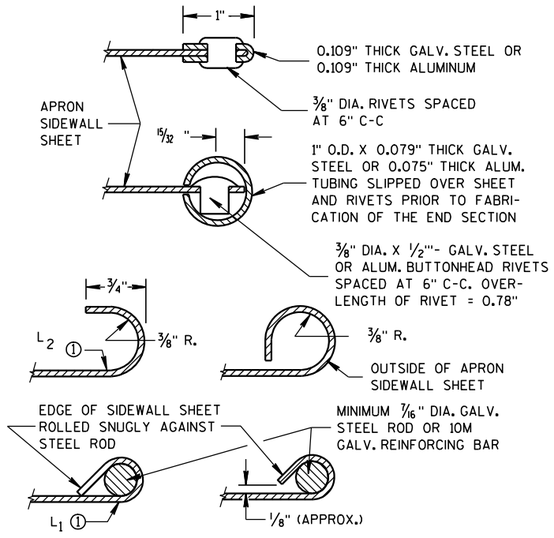


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

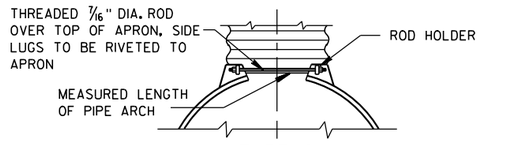
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

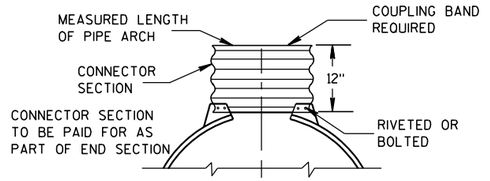
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



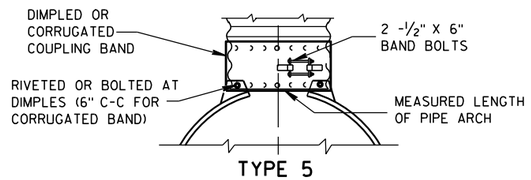
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

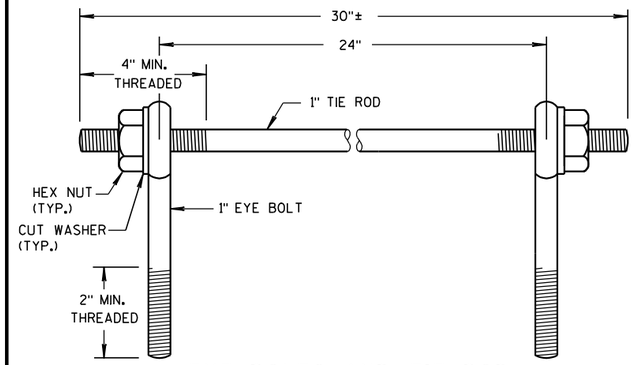
11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

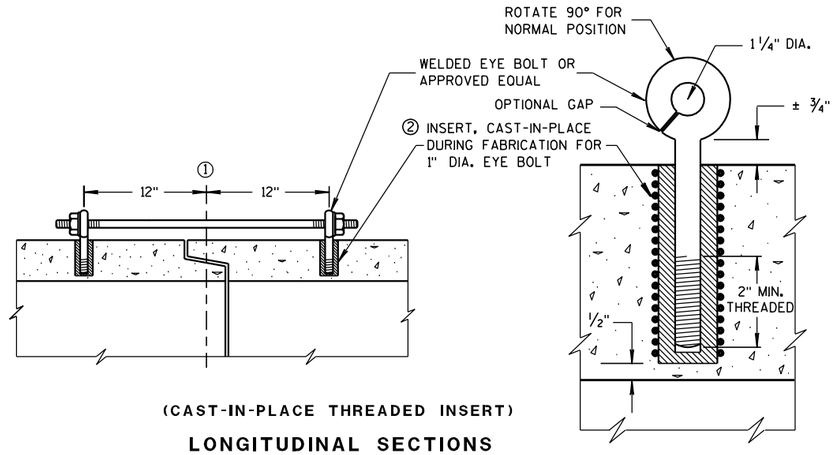
FHWA

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

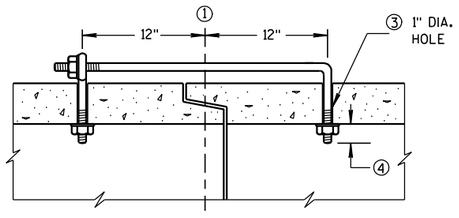
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

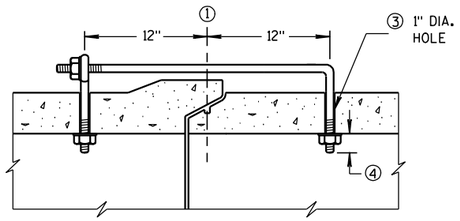
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

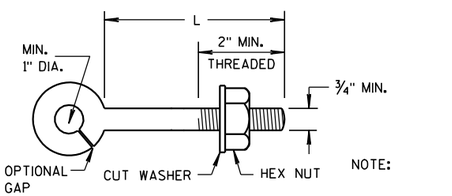


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

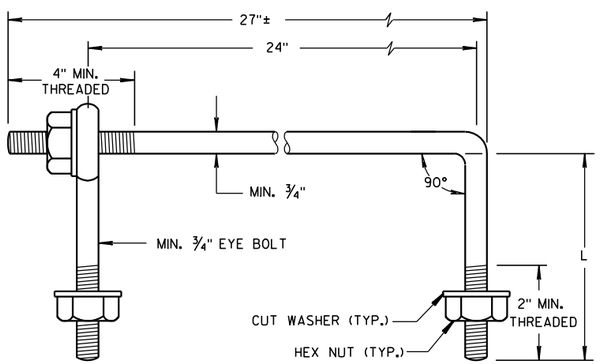
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

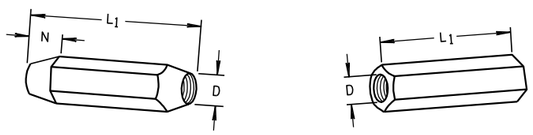
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

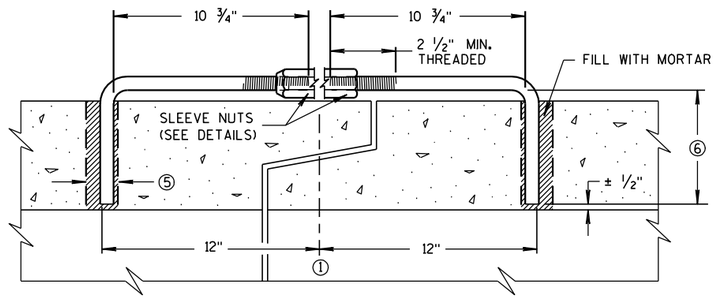
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

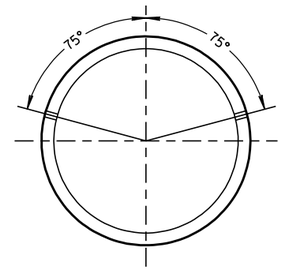
SLEEVE NUTS



LONGITUDINAL SECTION

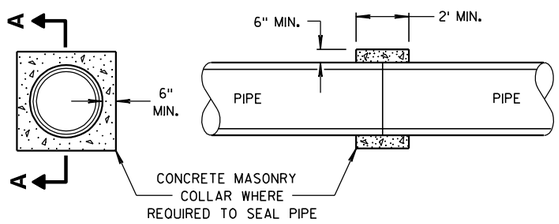
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

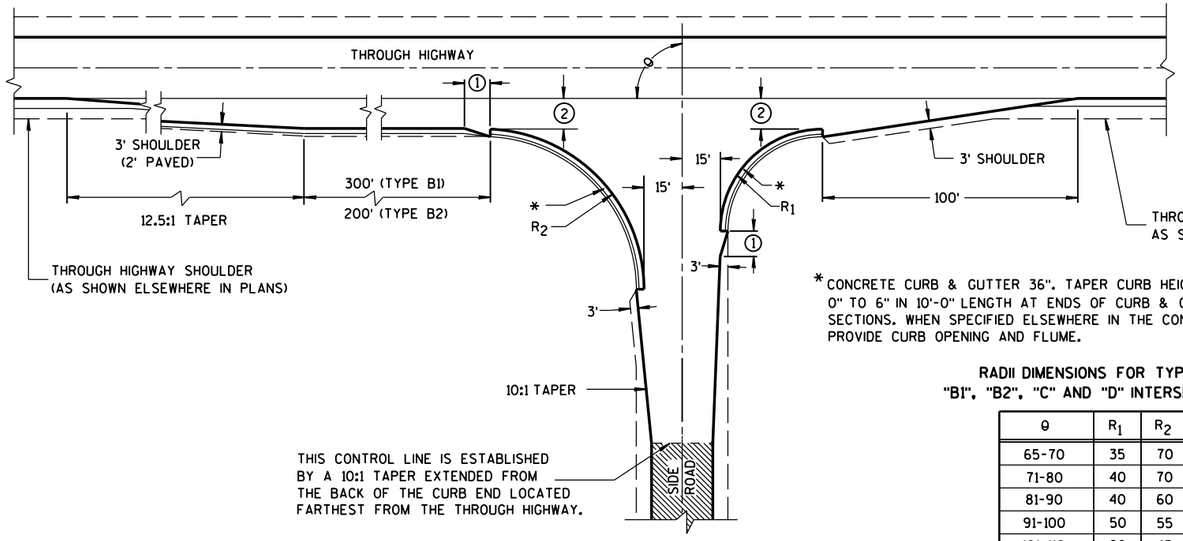
APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7

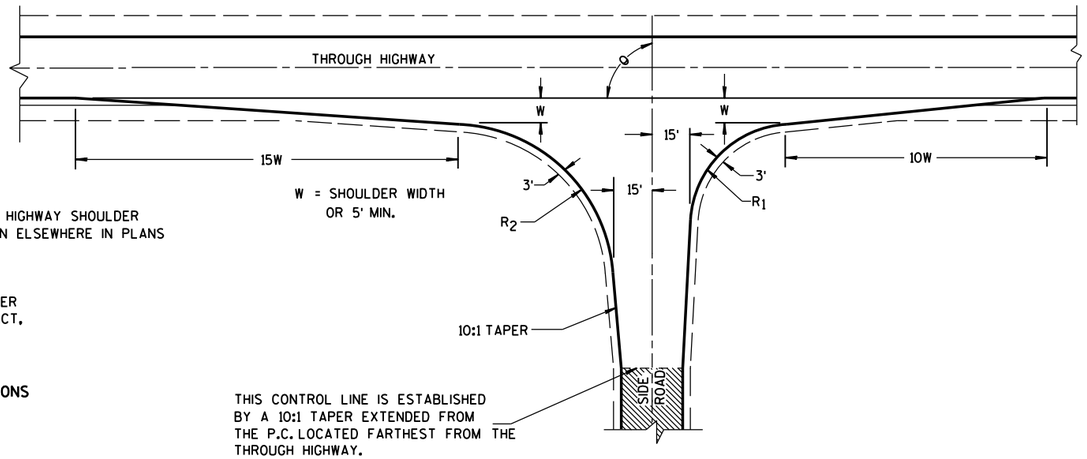


TYPE "B1" AND "B2"

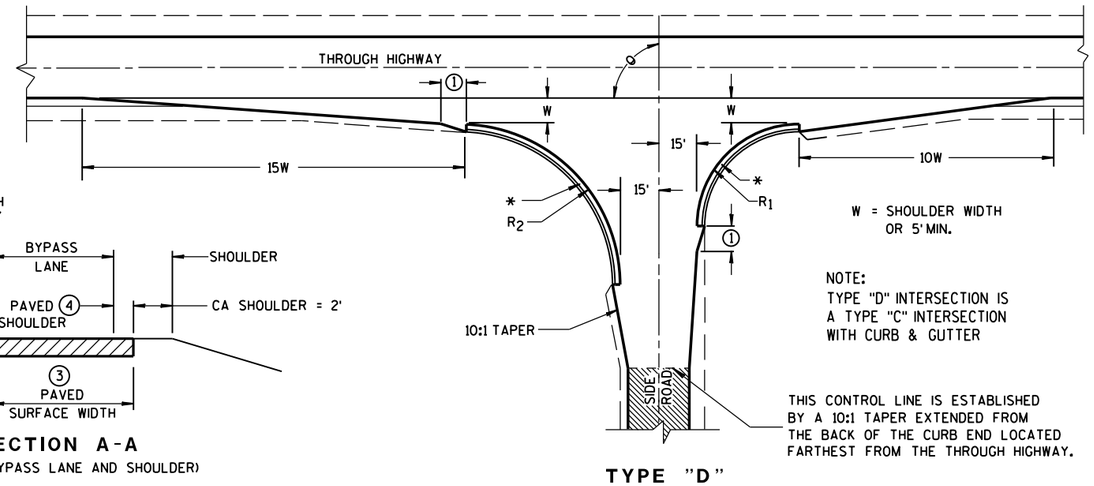
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

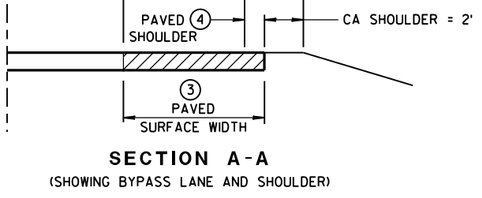
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

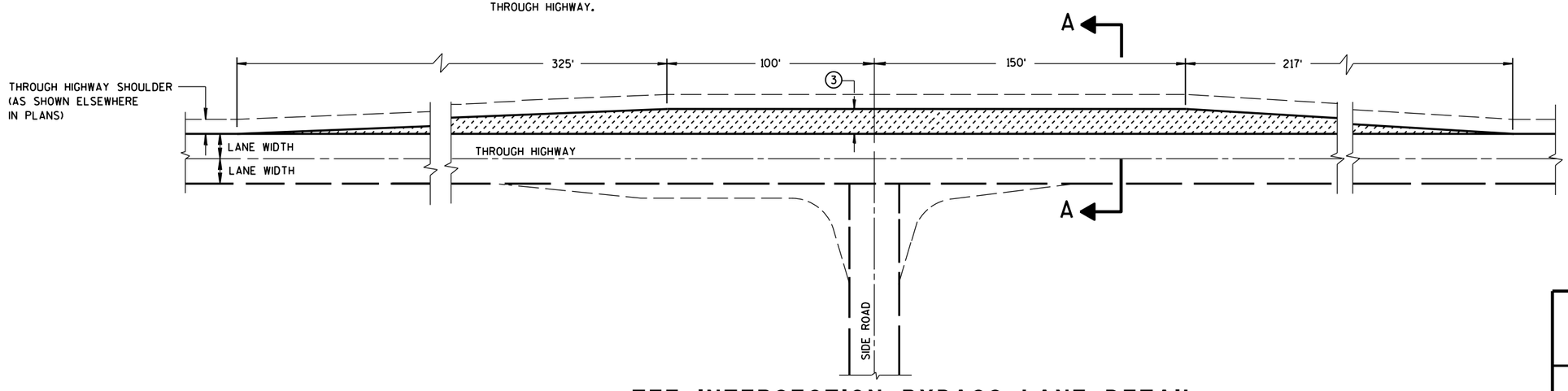
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



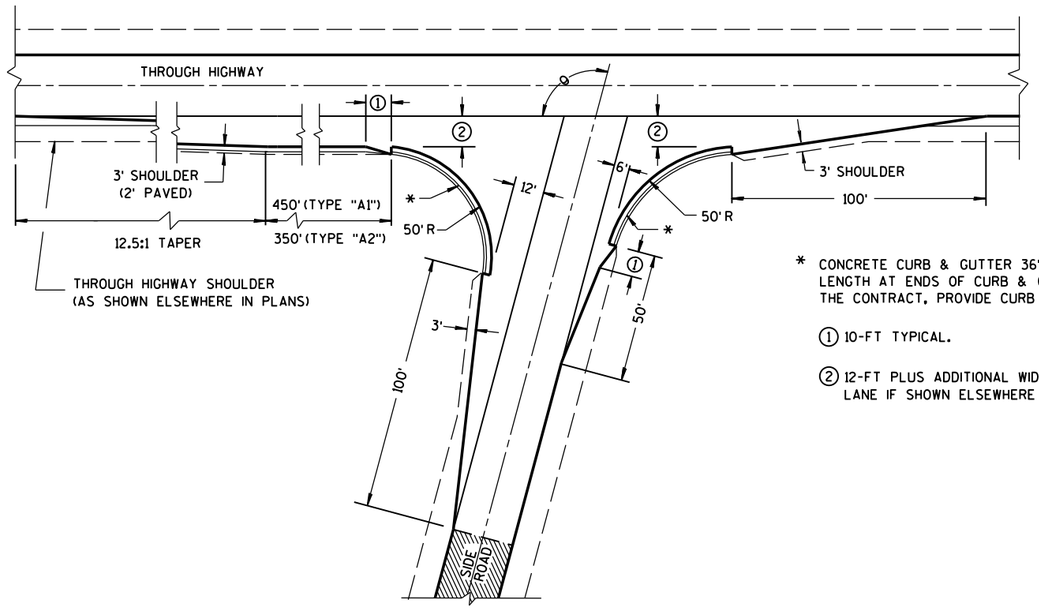
TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

S.D.D. 9 A 1-13a



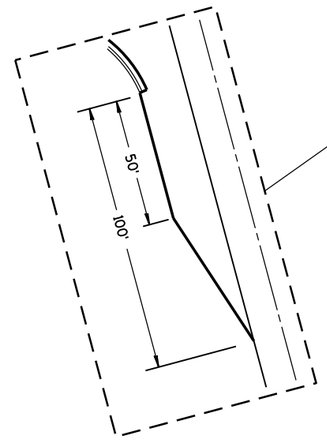
θ = MORE THAN 80°

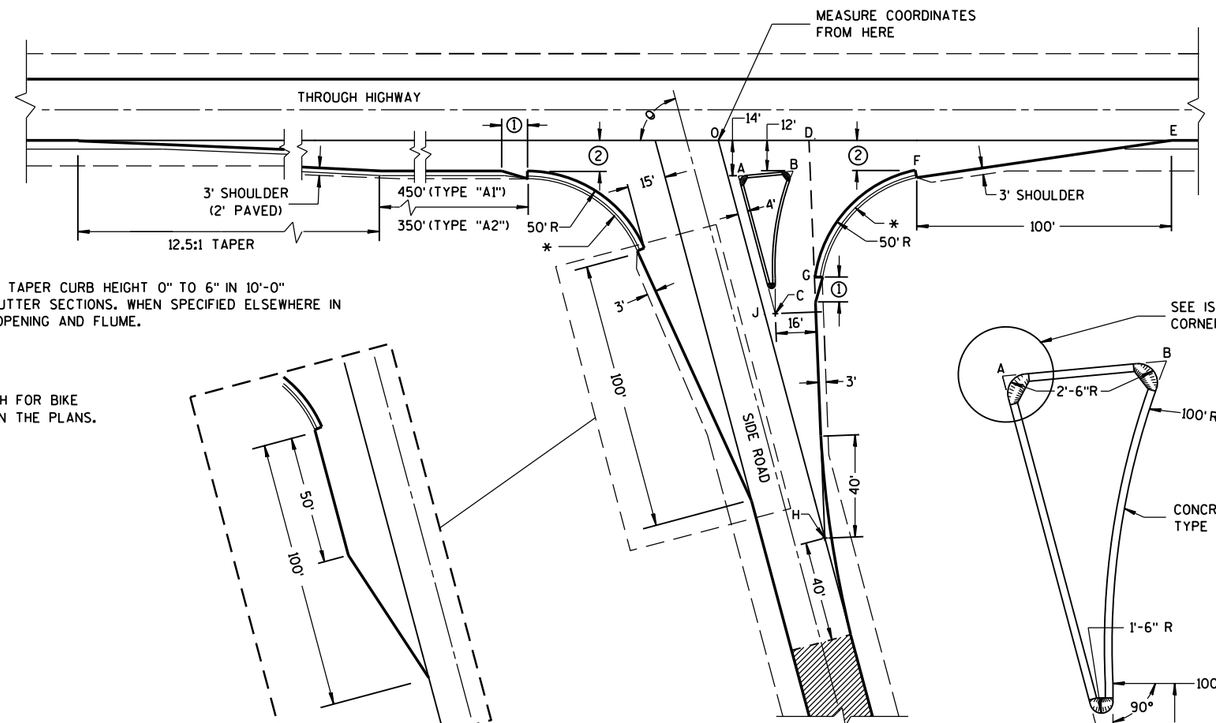
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10-FT TYPICAL.

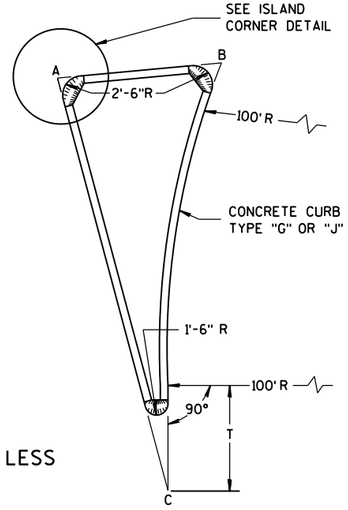
② 12-FT PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLANS.

EXISTING PAVED SURFACE

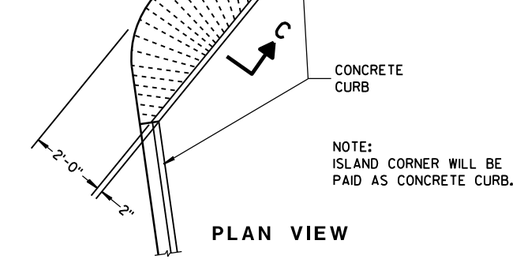




θ = ACUTE ANGLES 80° OR LESS

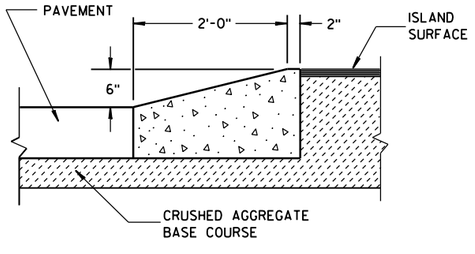


SIDE ROAD WIDENING AND TAPER REQUIRED WHERE THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
θ = ACUTE ANGLES 70° OR LESS



NOTE:
ISLAND CORNER WILL BE PAID AS CONCRETE CURB.

PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)

TABLE OF DIMENSIONS FOR
VARIABLE SIDE ROAD INTERSECTION ANGLES
(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

ANGLE θ DEGREES	COORDINATES IN FEET (MEASURED FROM POINT "O") X / Y								LENGTH IN FEET				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	12.7 / -14.0	44.9 / -12.0	46.4 / -72.4	41.9 / 0.0	205.0 / 0.0	104.6 / -12.0	64.0 / -75.5	85.0 / -147.1	32.3	67.4	4.9	85.9	169.9
65	10.9 / -14.0	39.0 / -12.0	37.8 / -71.6	39.4 / 0.0	196.1 / 0.0	95.7 / -12.0	54.1 / -71.5	70.5 / -151.3	28.2	63.6	8.5	80.9	166.9
70	9.4 / -14.0	33.9 / -12.0	29.8 / -70.1	37.4 / 0.0	188.3 / 0.0	87.8 / -12.0	45.6 / -67.5	56.1 / -154.2	24.6	59.7	11.5	76.1	164.1
75	7.9 / -14.0	29.3 / -12.0	22.3 / -67.9	35.7 / 0.0	181.2 / 0.0	80.7 / -12.0	38.2 / -63.4	41.8 / -155.9	21.5	55.8	13.8	71.4	161.4
80	6.5 / -14.0	25.4 / -12.0	15.6 / -65.2	34.4 / 0.0	174.8 / 0.0	74.4 / -12.0	31.8 / -59.3	27.6 / -156.5	18.9	52.0	15.6	66.9	158.9

TYPE "A1" & "A2" SIDE ROAD INTERSECTION DETAILS

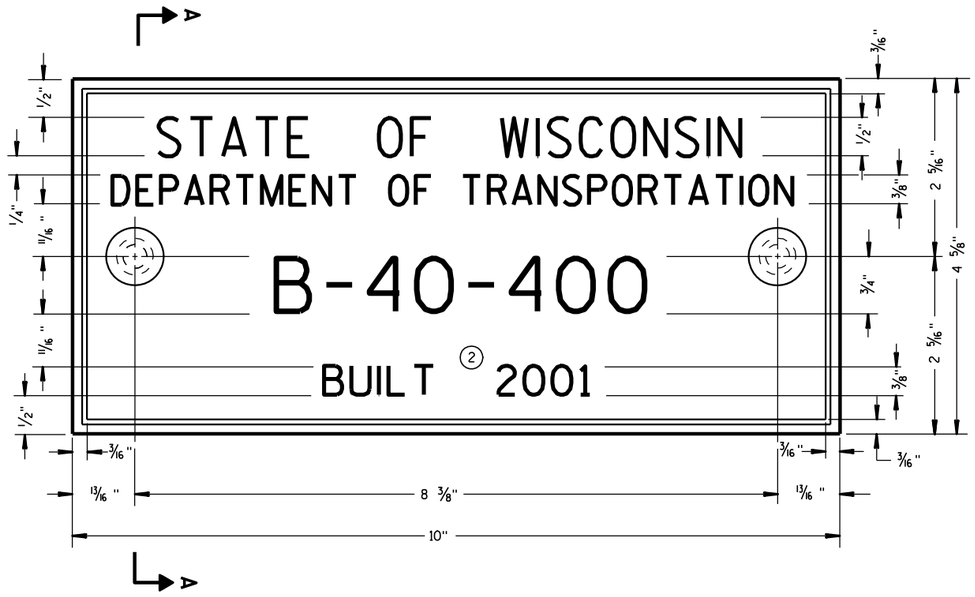
AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/18/12 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

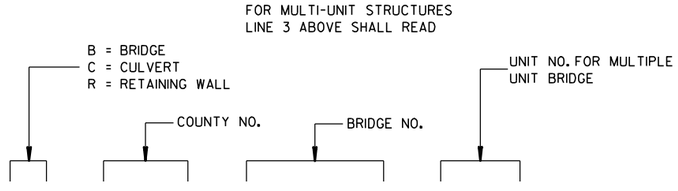
S.D.D. 9 A 1-13b

6



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

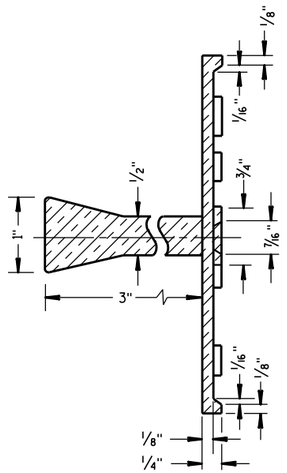
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

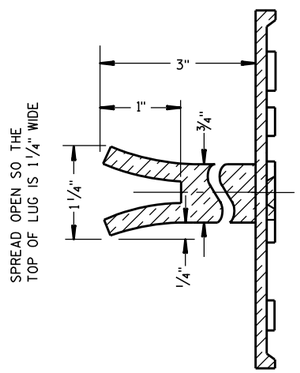
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

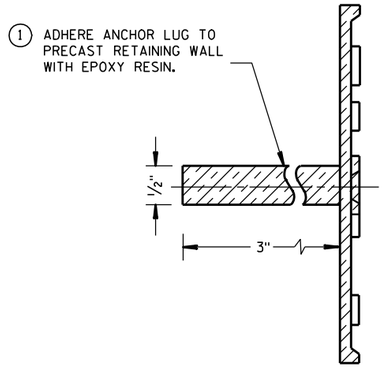
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

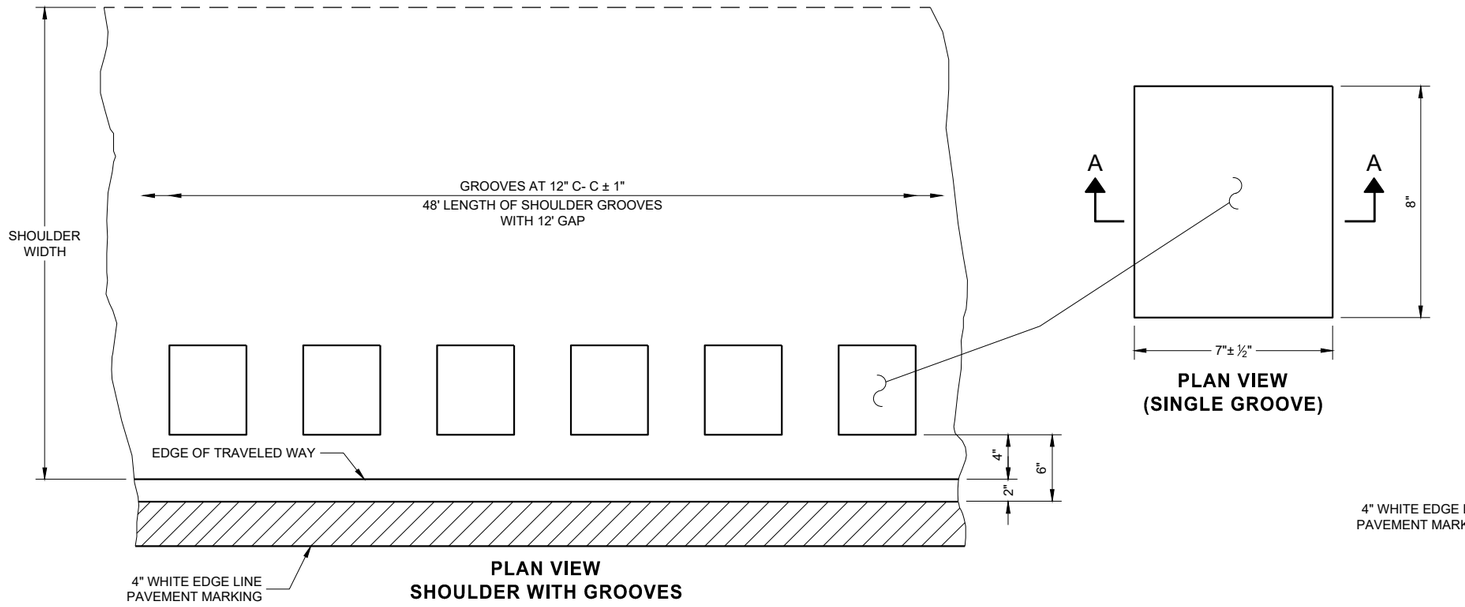
NAME PLATE (STRUCTURES)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
3/26/10 DATE	/S/ Scot Beck -- CHIEF STRUCTURAL DEVELOP ENGINEER
FHWA	

6

S.D.D. 12 A 3-10

6

S.D.D. 12 A 3-10



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

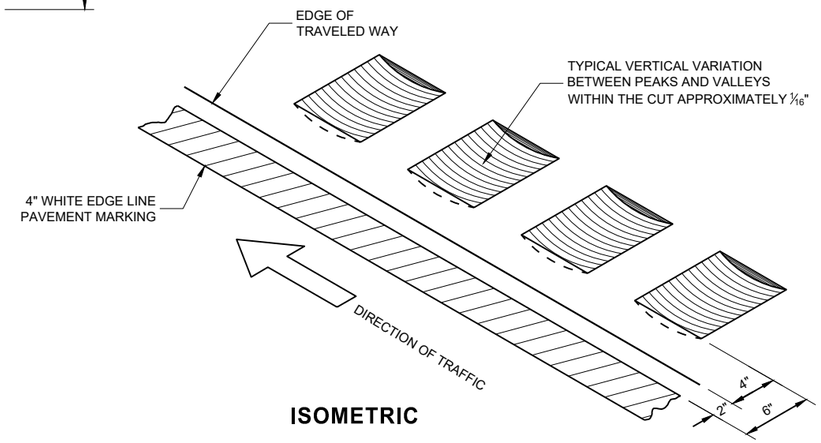
PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP

GENERAL NOTES

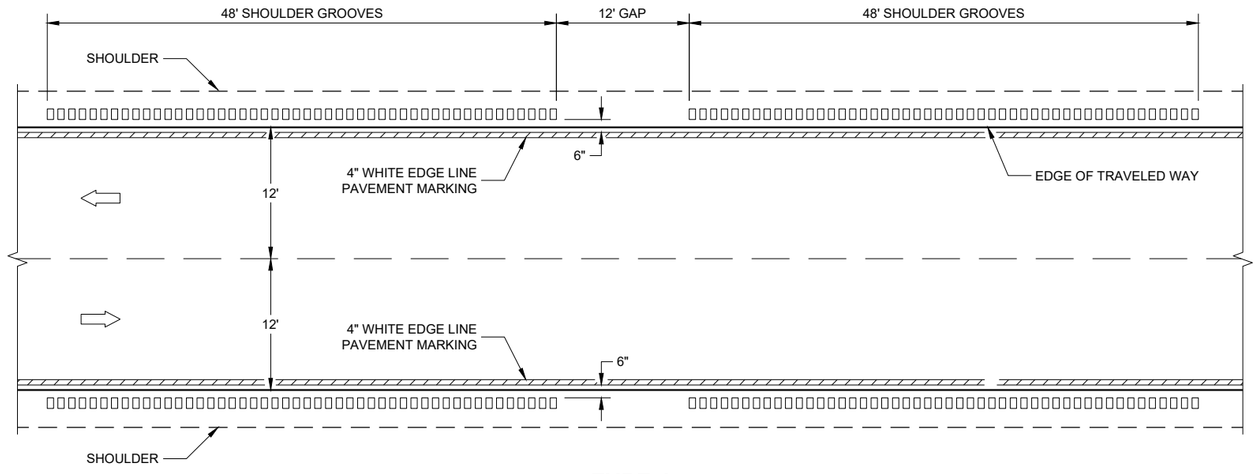
DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

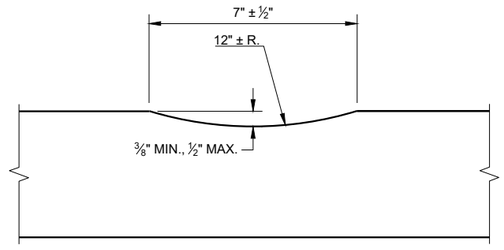
(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



ISOMETRIC



TYPE 1
2 - LANE SHOULDER RUMBLE STRIP



SECTION A - A

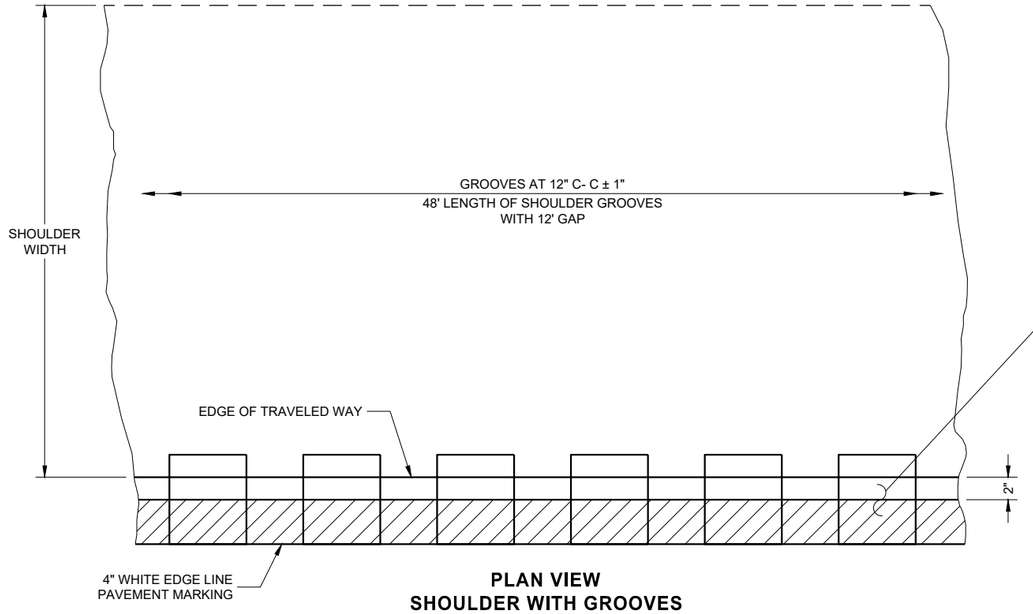
2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

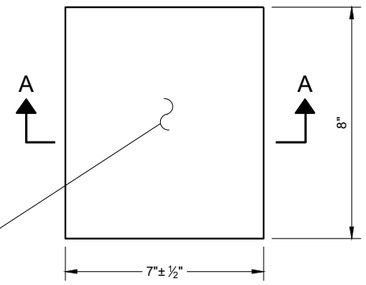
SDD 13A10 - 02a

6

SDD 13A10 - 02a



PLAN VIEW
SHOULDER WITH GROOVES



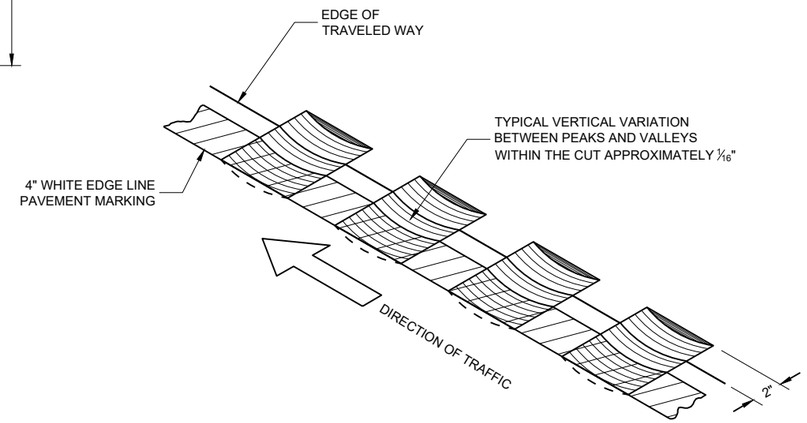
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

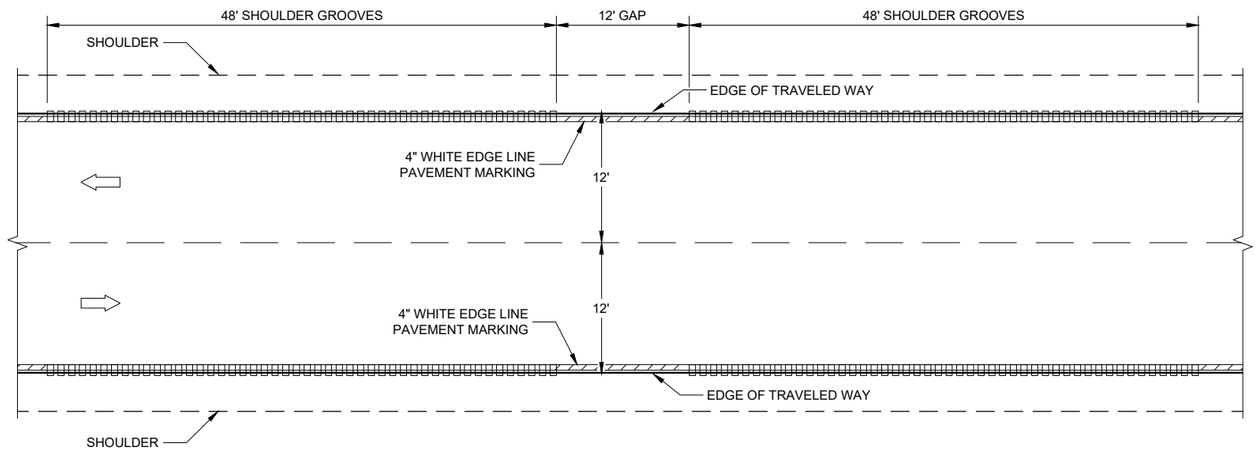
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

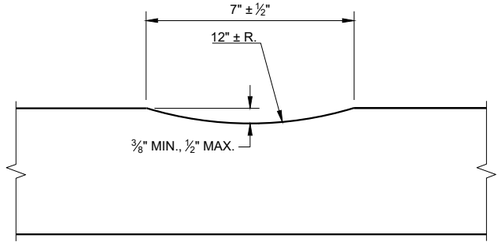


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



TYPE 2
2 - LANE SHOULDER RUMBLE STRIP



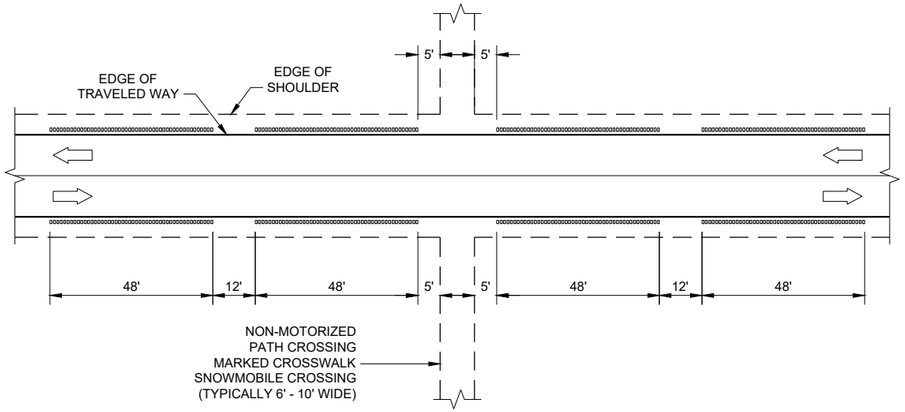
SECTION A - A

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

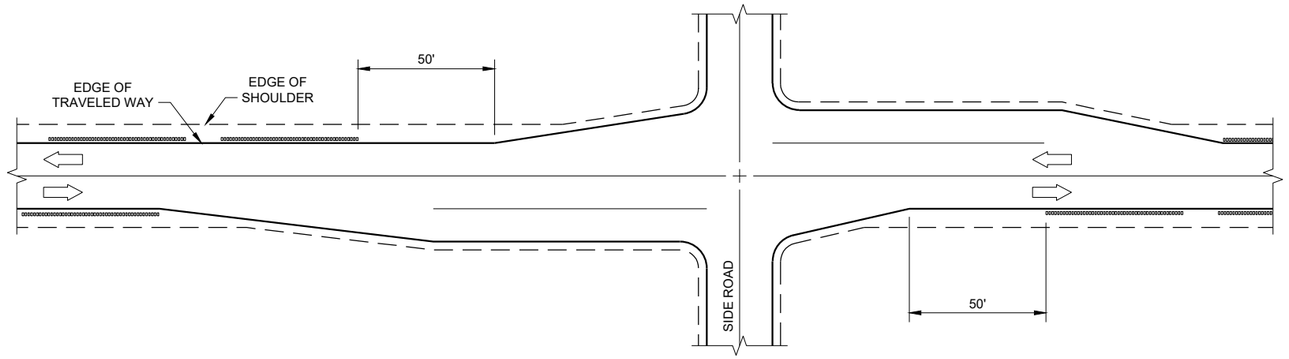
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 13A10 - 02b

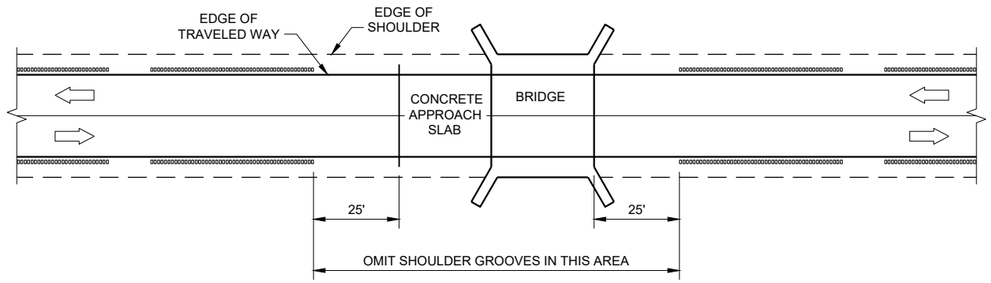
SDD 13A10 - 02b



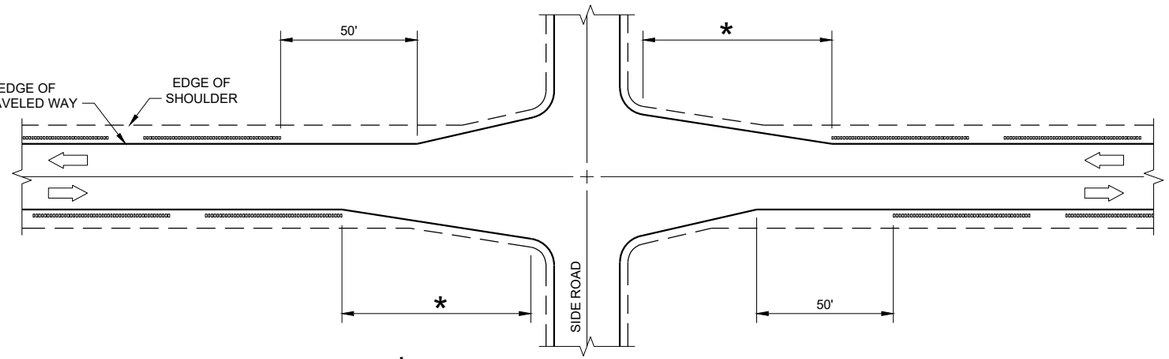
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



SHOULDER GROOVES AT RIGHT TURN LANE

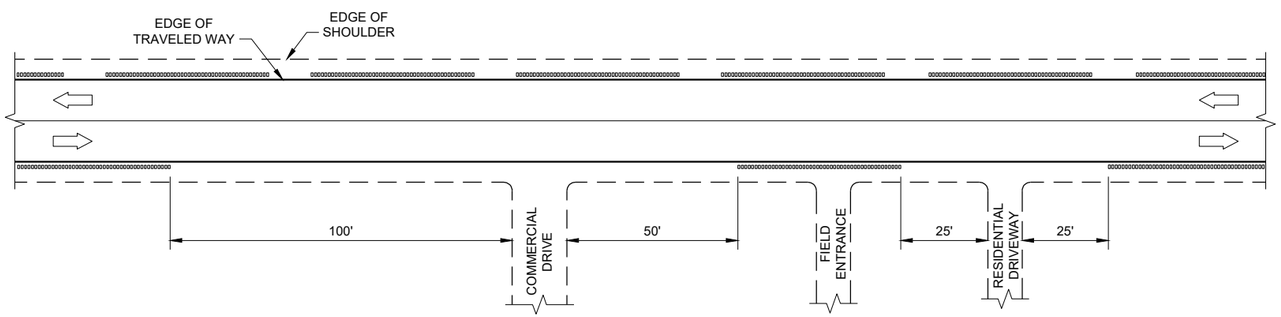


SHOULDER GROOVES AT BRIDGES



* GREATER OF 100' OR APPROACH TAPER LENGTH

SHOULDER GROOVES AT INTERSECTIONS WITH APPROACH TAPER



SHOULDER GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

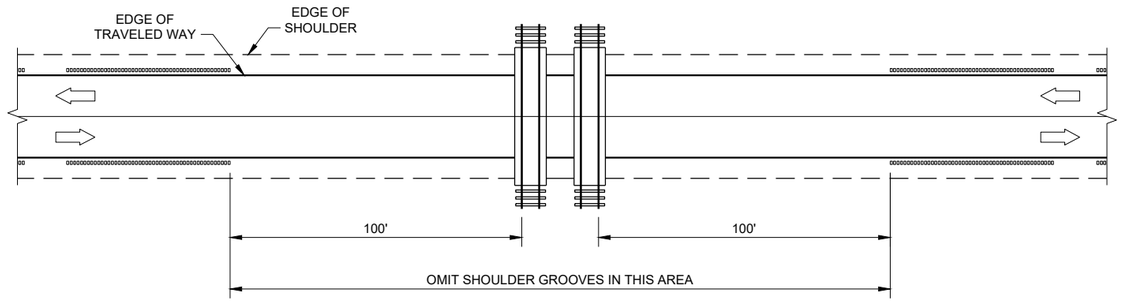
2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

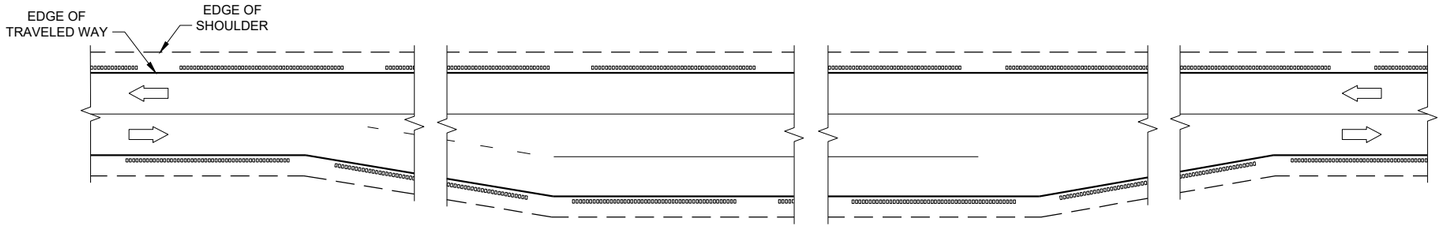
6

SDD 13A10 - 02c

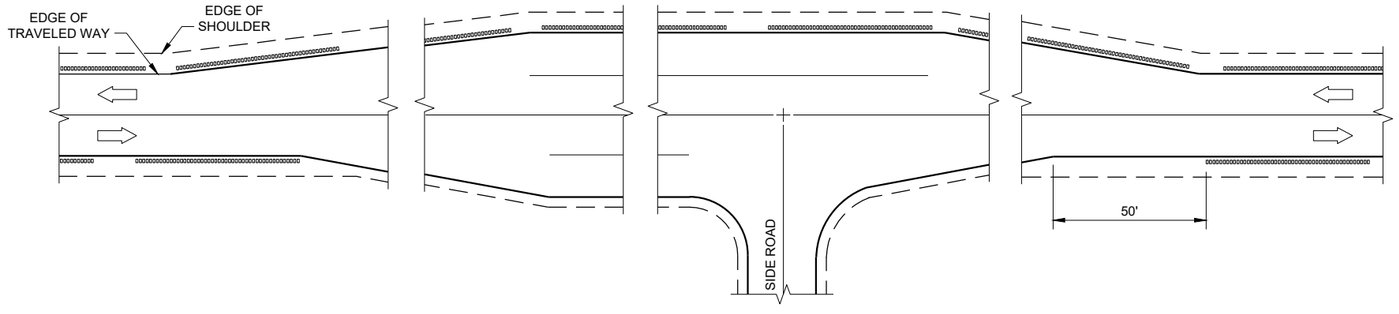
SDD 13A10 - 02c



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

6

6

SDD 13A10 - 02d

SDD13A10 - 02d

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

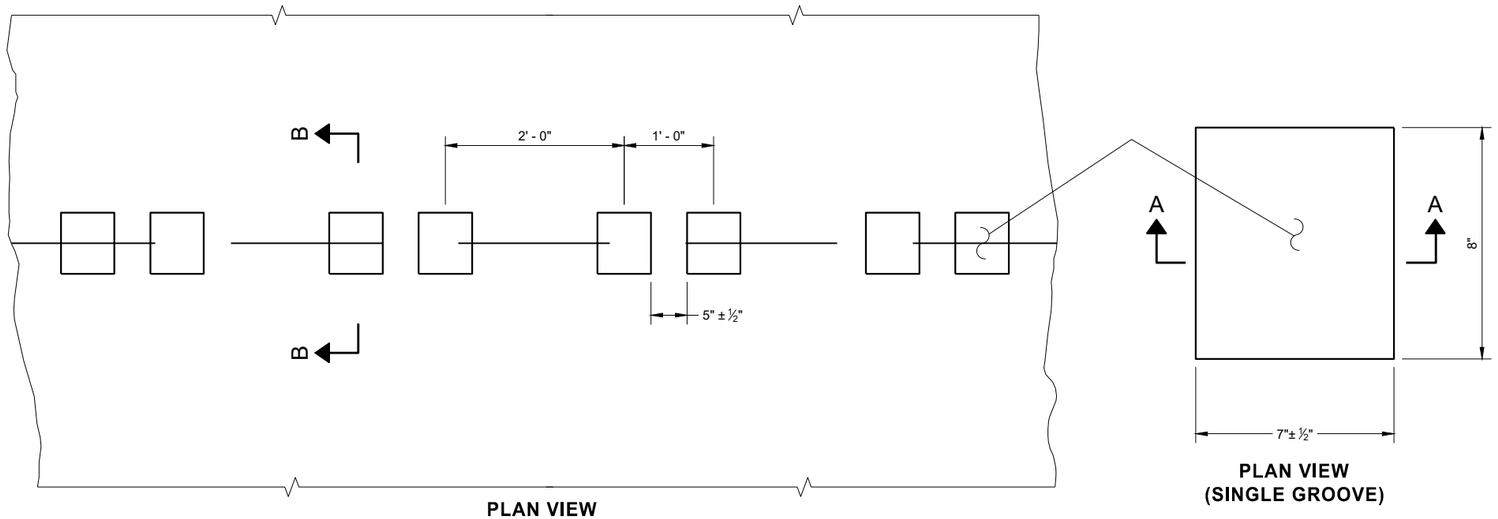
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP

GENERAL NOTES

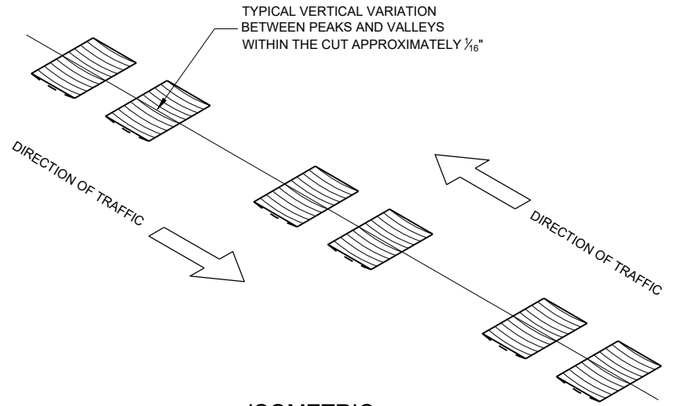
DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTERLINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

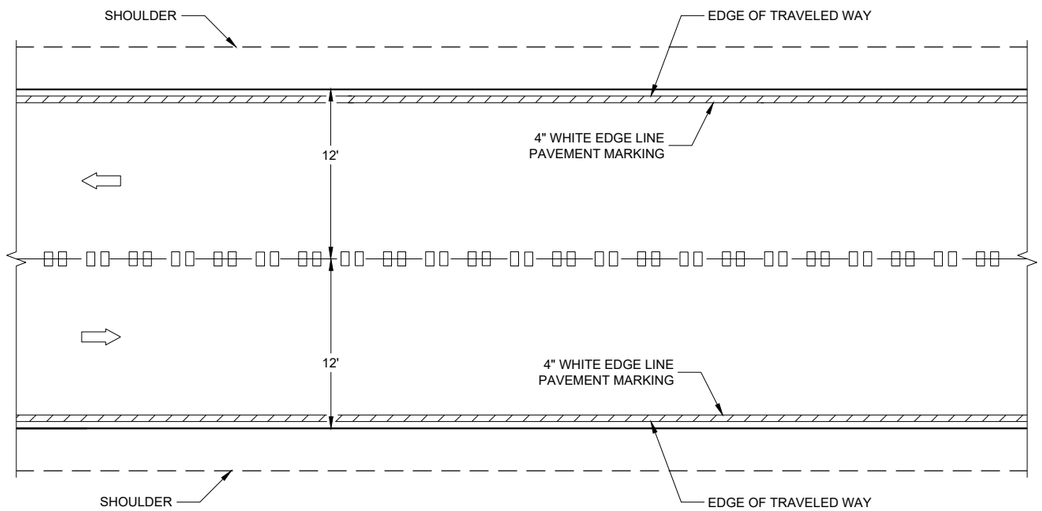
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

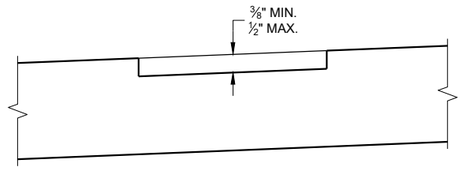
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



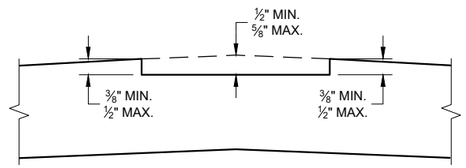
ISOMETRIC



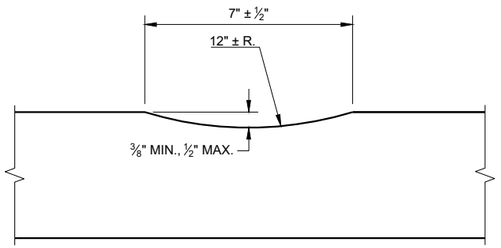
CENTERLINE GROOVES ON TWO-WAY ROADWAYS



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



SECTION A - A

6

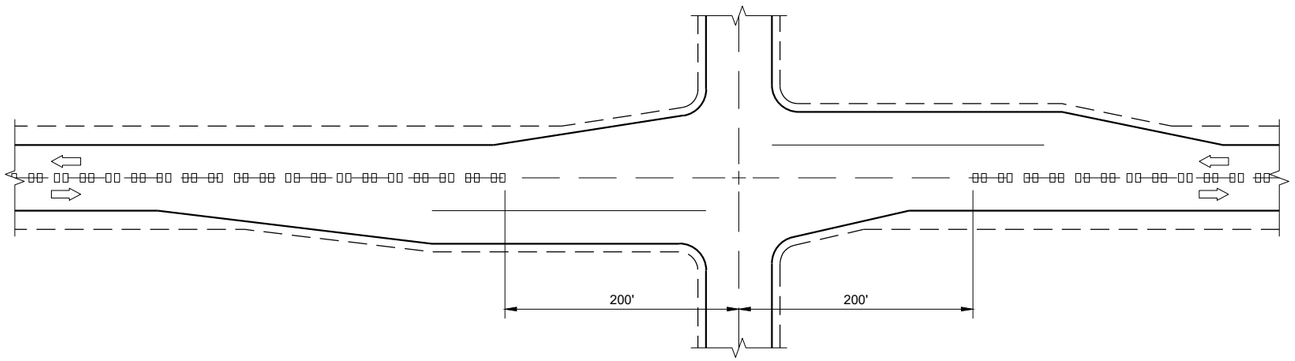
SDD 13A11 - 03a

6

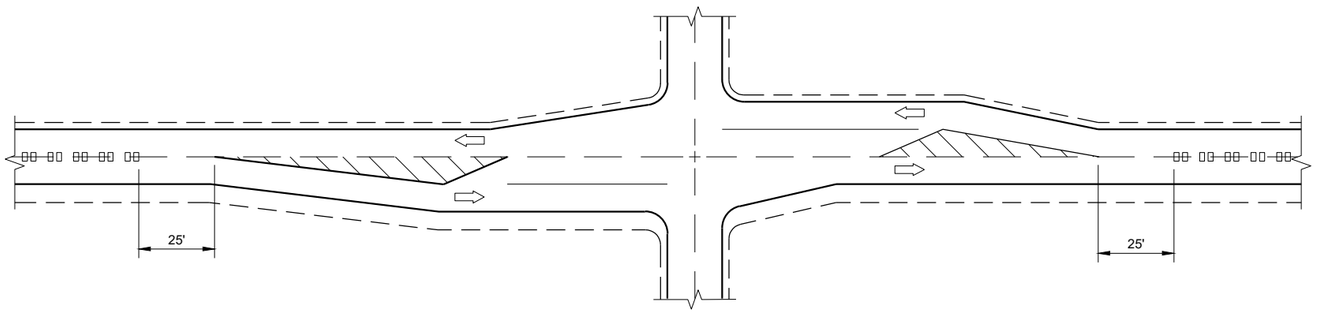
SDD 13A11 - 03a

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

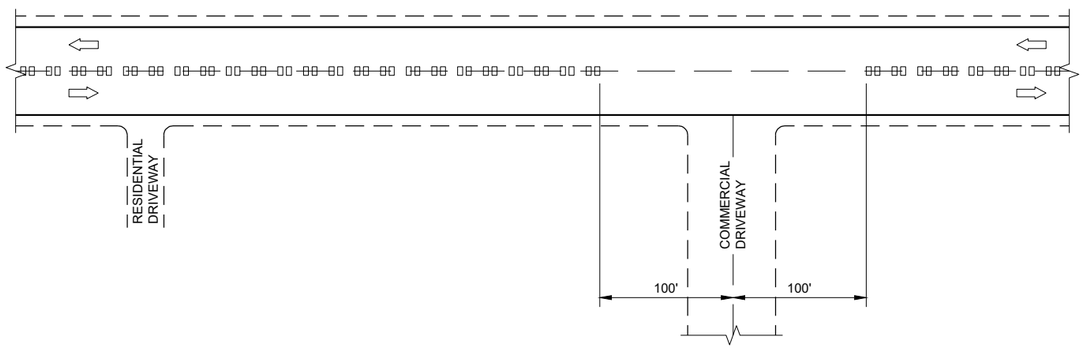
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTERLINE GROOVES AT INTERSECTIONS



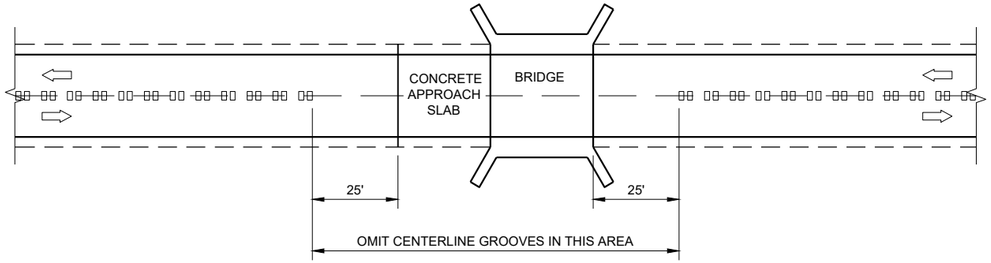
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



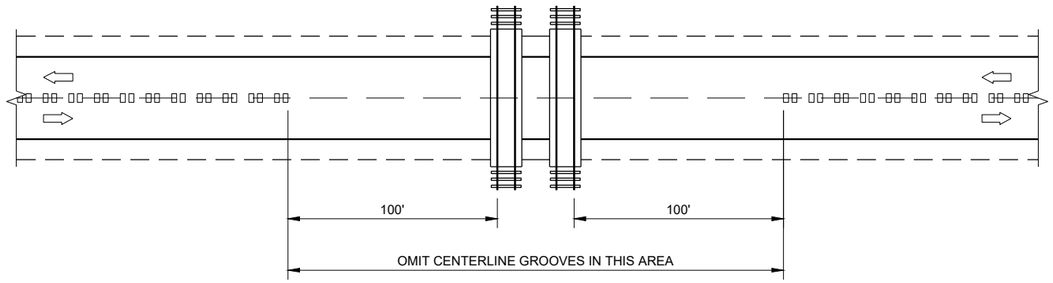
CENTERLINE GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

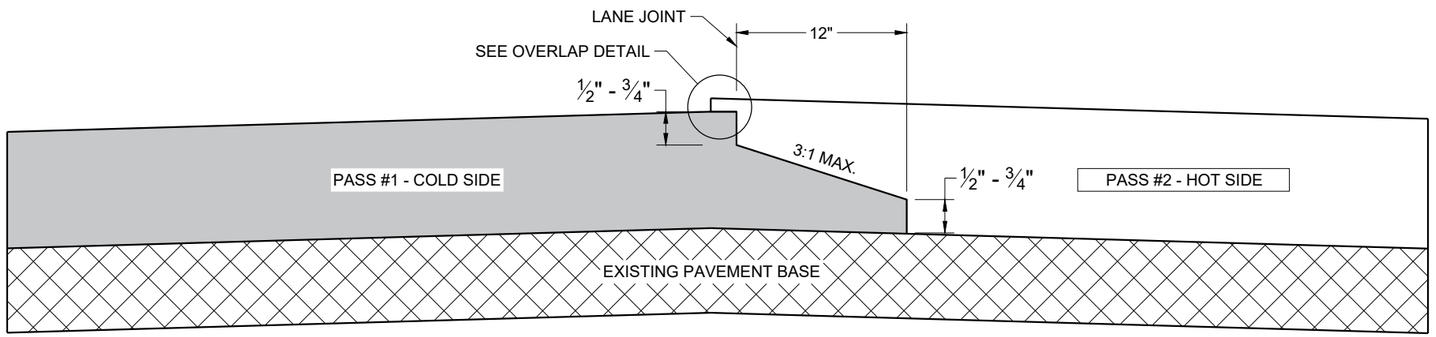
2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

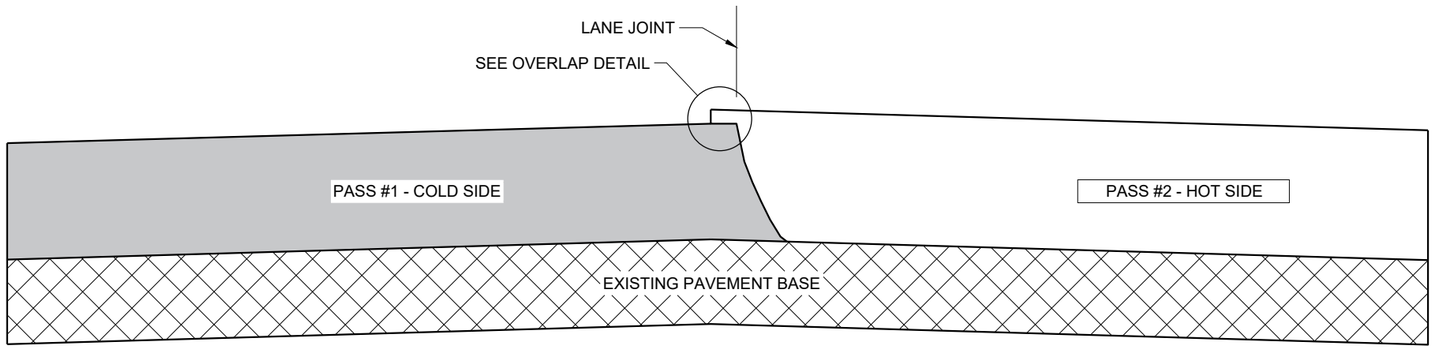
APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

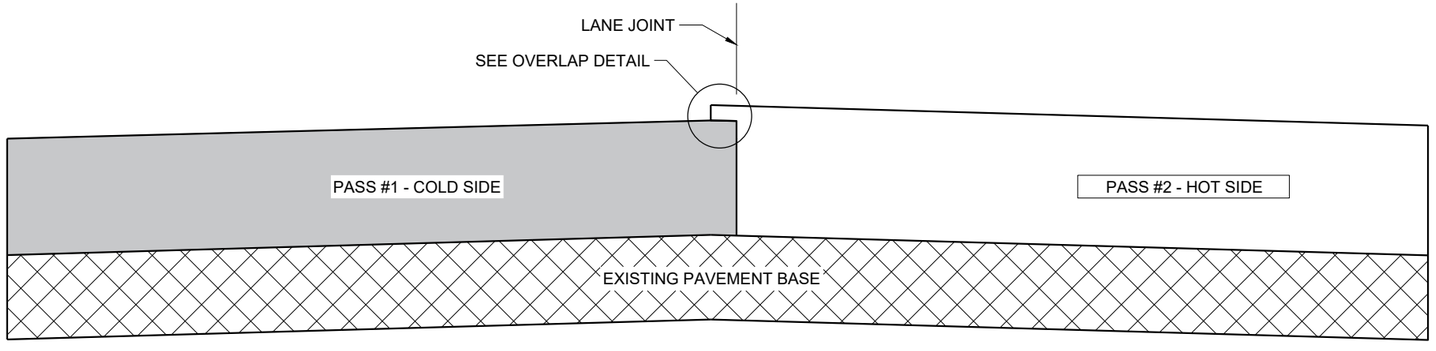
6
SDD 13A11 - 03b



TYPICAL PAVEMENT CROSS SECTION
OF NOTCHED WEDGE LONGITUDINAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL LONGITUDINAL JOINT



TYPICAL PAVEMENT CROSS SECTION
OF MILLED LONGITUDINAL JOINT

GENERAL NOTES

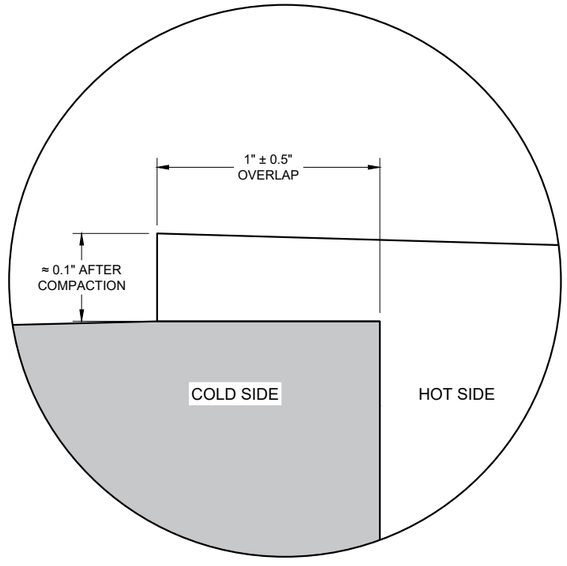
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION.

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 02

SDD 13C19 - 02

HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

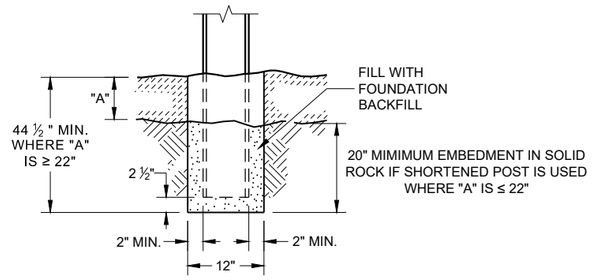
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

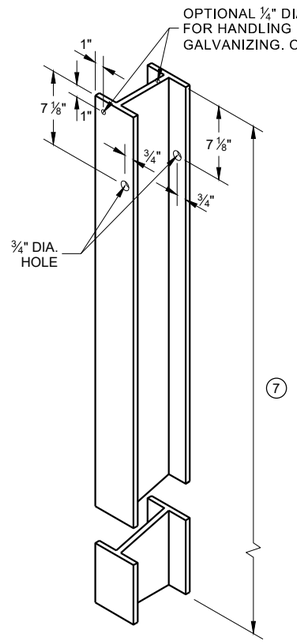
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS +1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

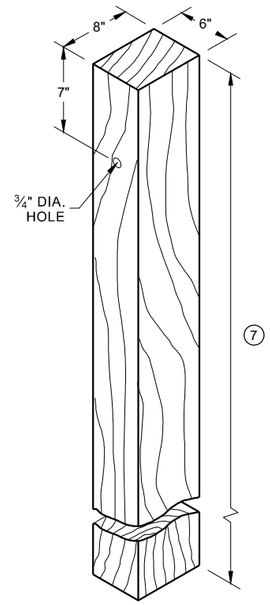
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



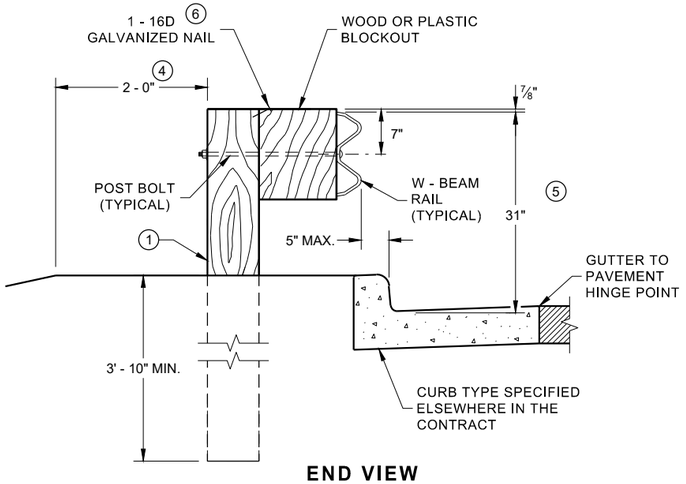
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



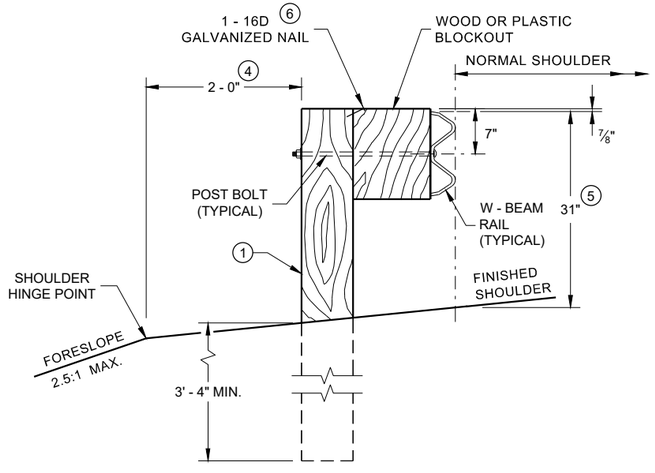
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



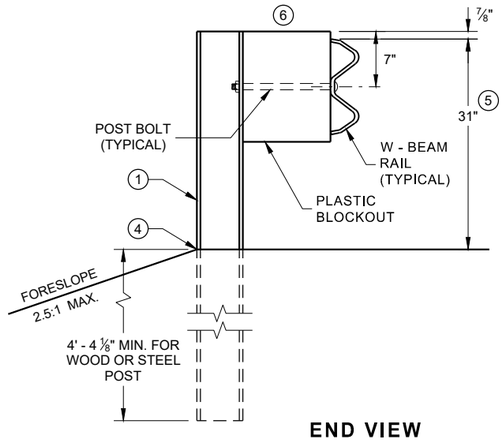
WOOD POST (6" X 8") NOMINAL (1)



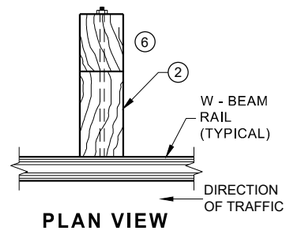
END VIEW
LOCATED ALONG A CURBED ROADWAY



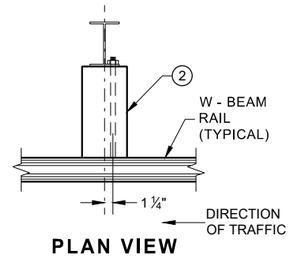
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



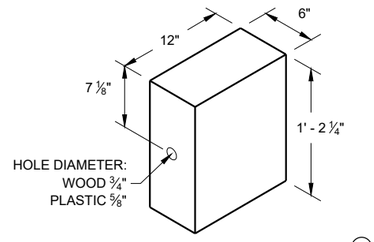
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

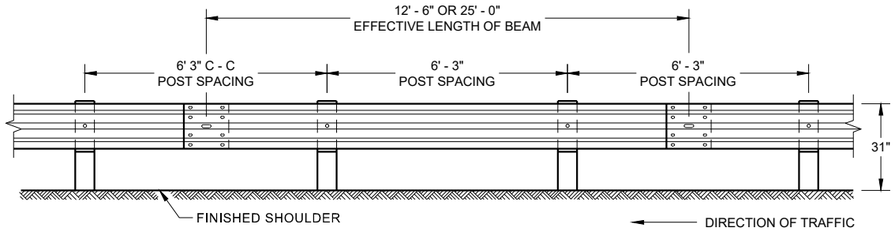
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

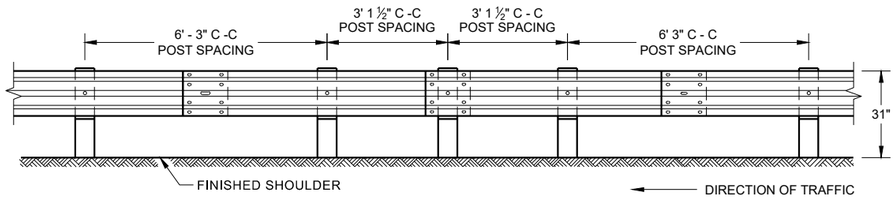
SDD 14B42 - 06a

6

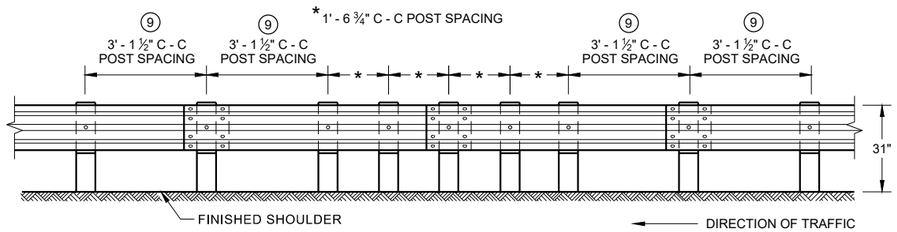
SDD 14B42 - 06a



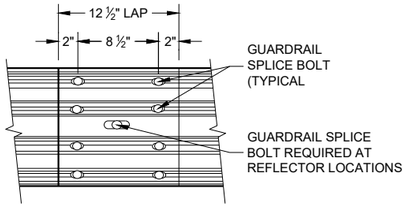
FRONT VIEW
POST SPACING STANDARD INSTALLATION



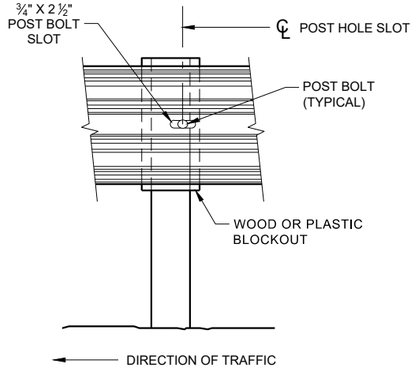
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



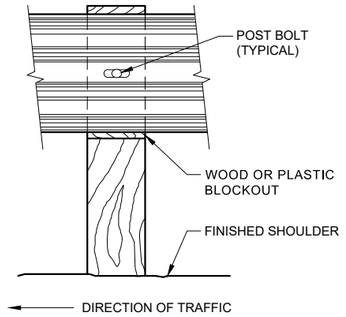
FRONT VIEW
QUARTER POST SPACING (QS)



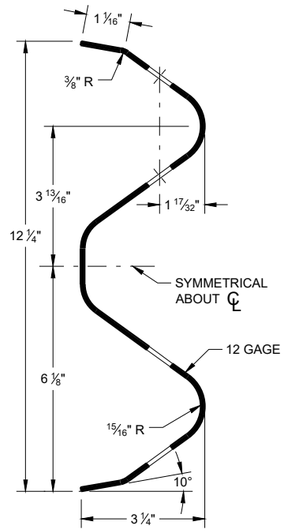
FRONT VIEW
MID-SPAN BEAM SPLICE



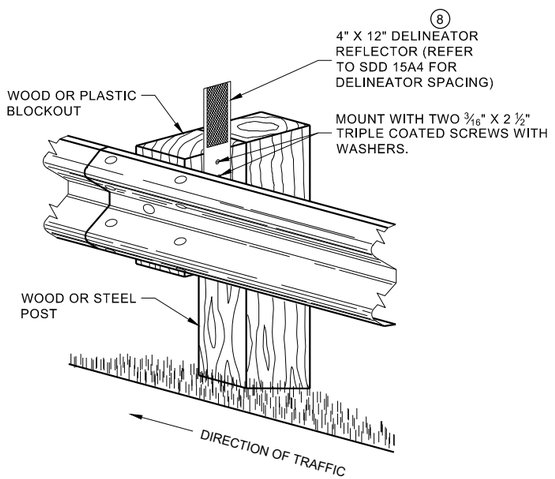
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

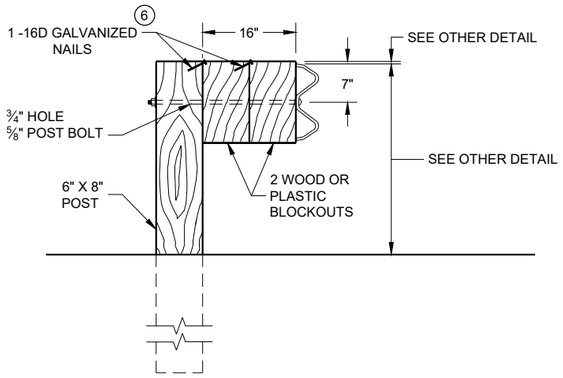
POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B42 - 06b

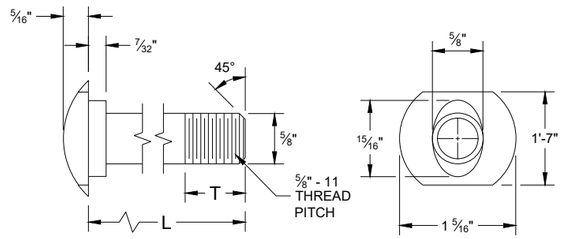


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

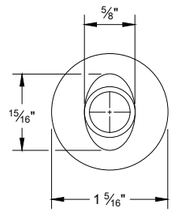
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3/16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

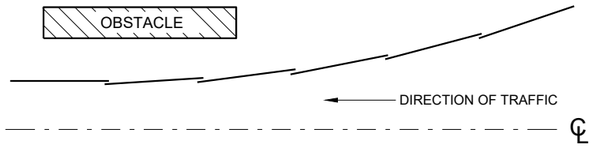


POST BOLT TABLE

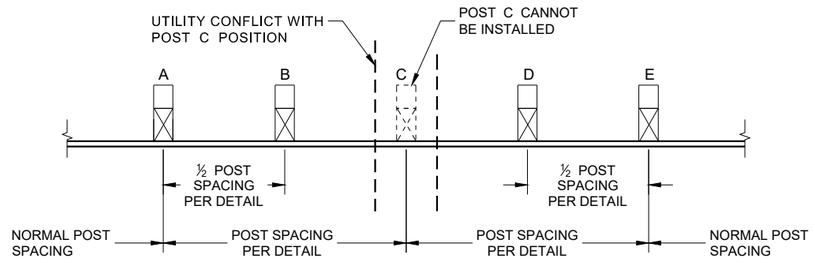
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



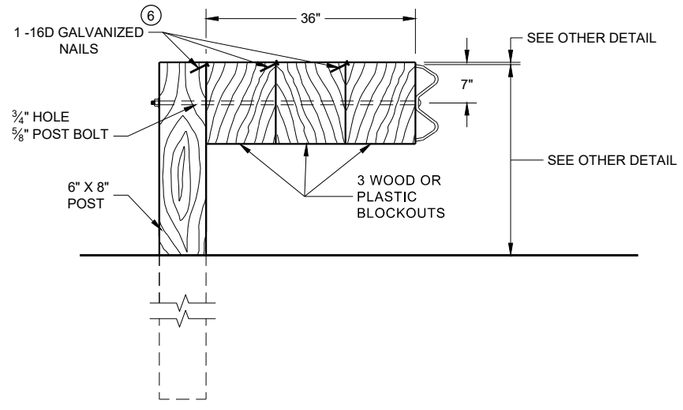
ALTERNATE BOLT HEAD



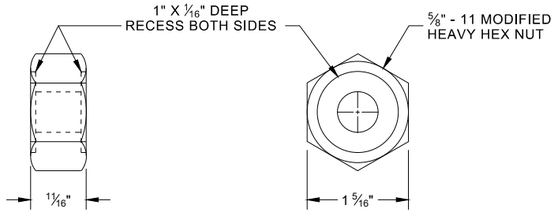
PLAN VIEW
BEAM LAPPING DETAIL



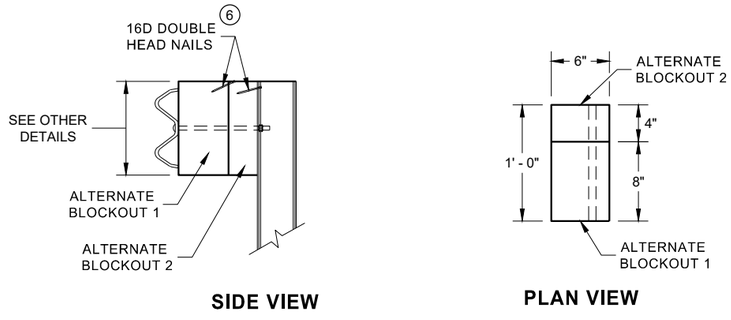
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



ALTERNATE WOOD BLOCKOUT DETAIL

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

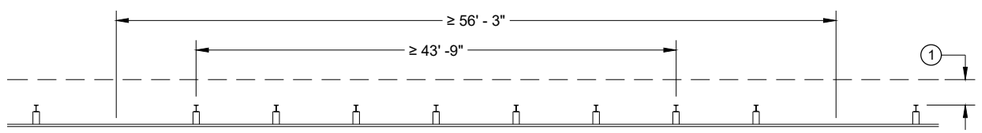
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

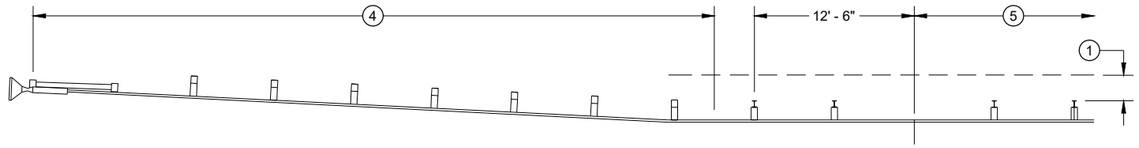
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

6

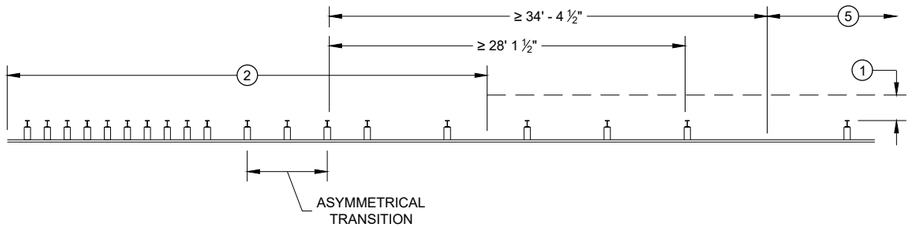
SDD 14B42 - 06c



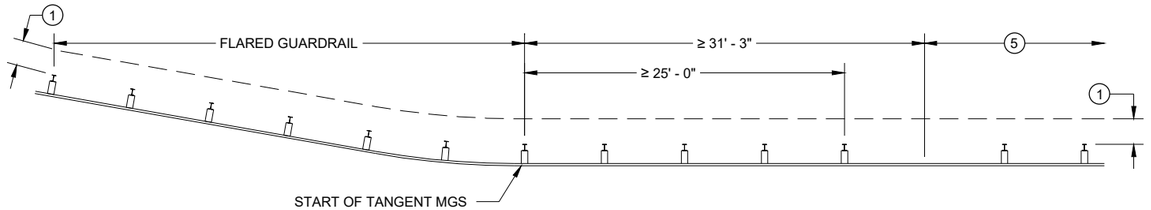
MISSING POST IN NORMAL BEAM GUARD RUN



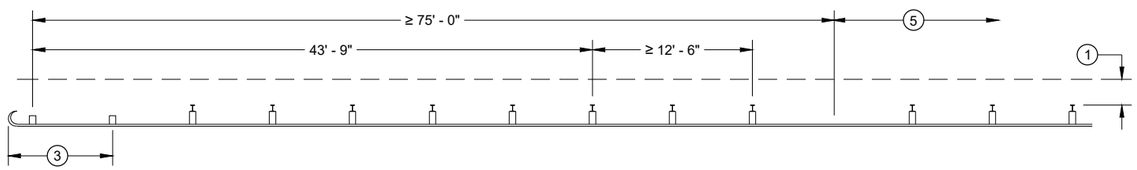
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



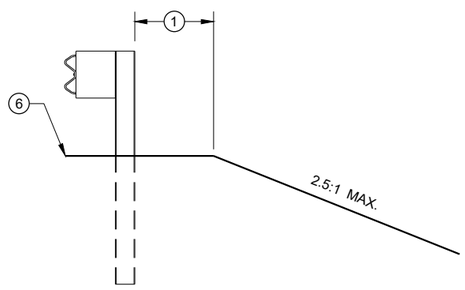
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

1. MINIMUM OF 2 FEET OF GRADING BEHIND POST.
2. SEE SDD 14B45 FOR MORE DETAILS.
3. SEE SDD 14B47 FOR MORE DETAILS.
4. SEE SDD 14B44 FOR MORE DETAILS.
5. SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.
6. SEE PLAN FOR SHOULDER DESIGN.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR
FHWA

SDD 14B42 - 06d

SDD 14B42 - 06d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

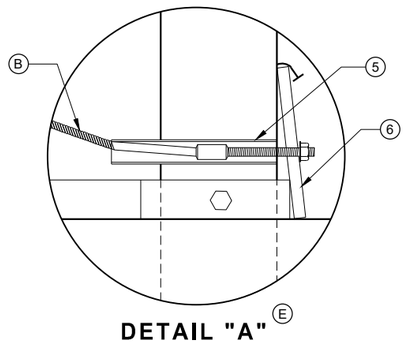
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

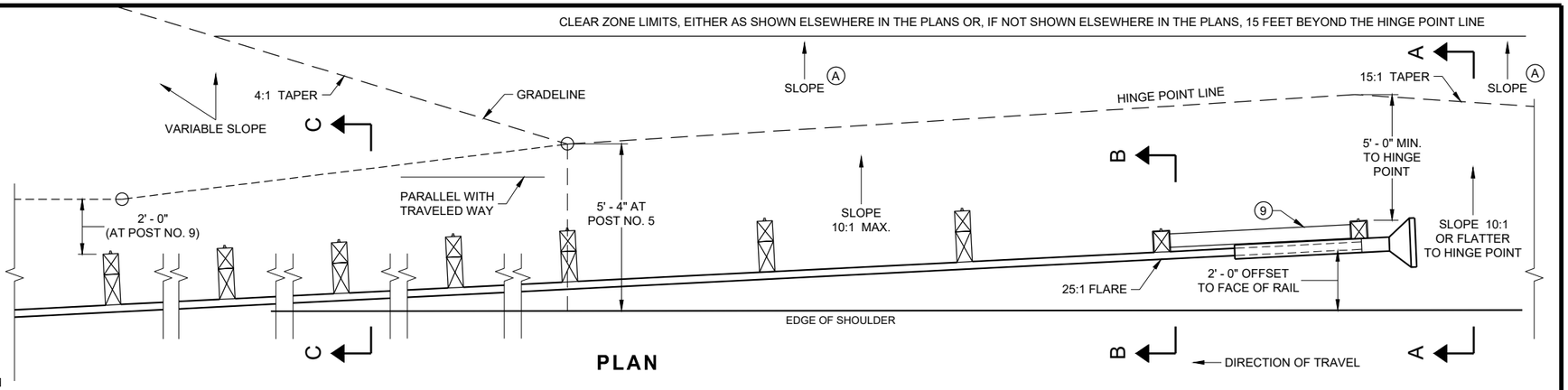
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

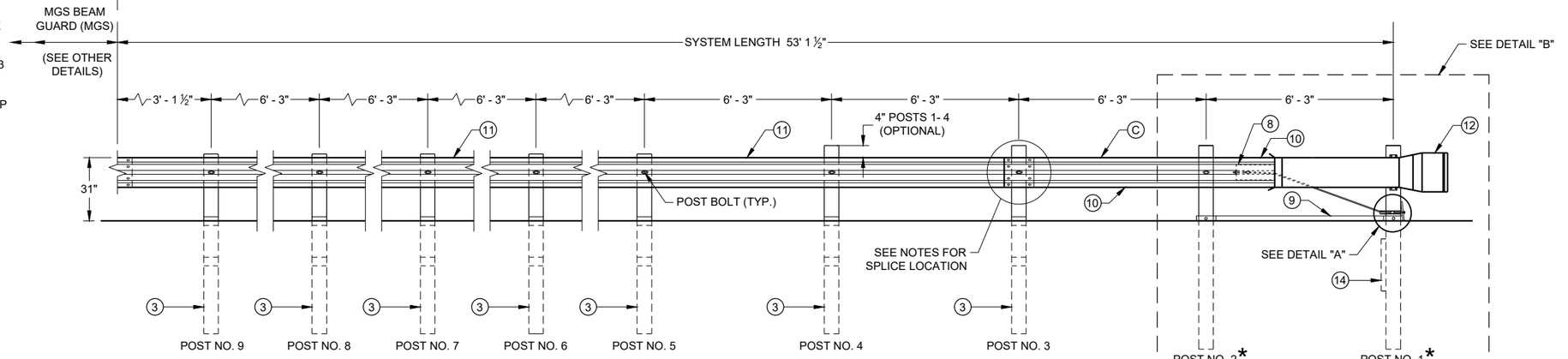
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



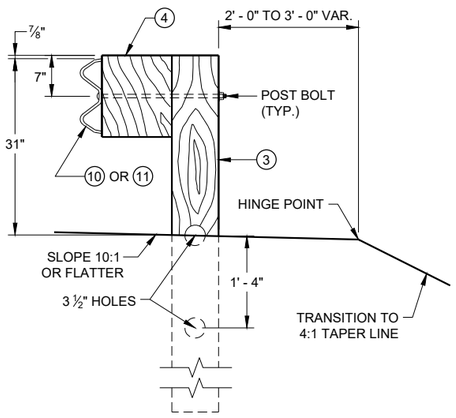
DETAIL "A" (E)



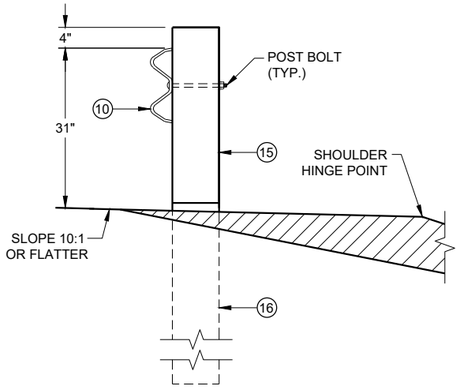
PLAN



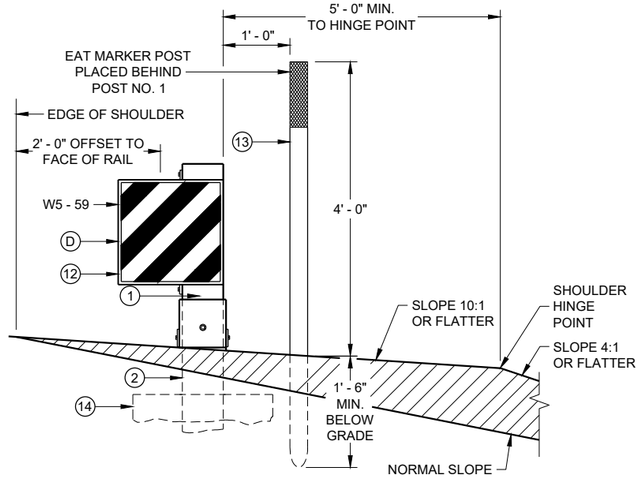
ELEVATION



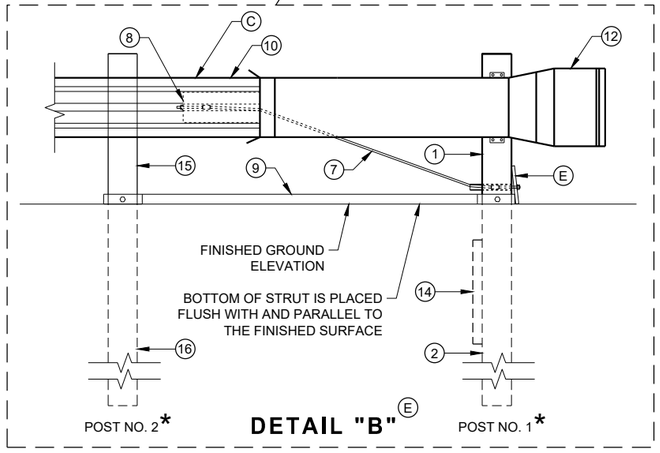
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



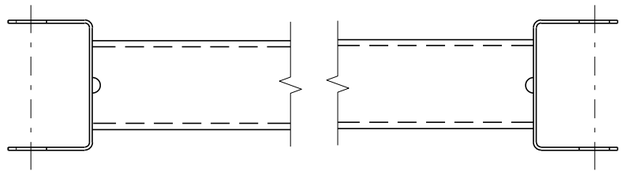
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

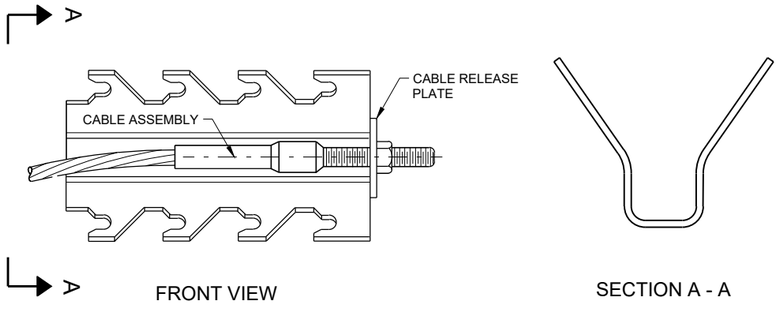
SDD 14B44 - 04a



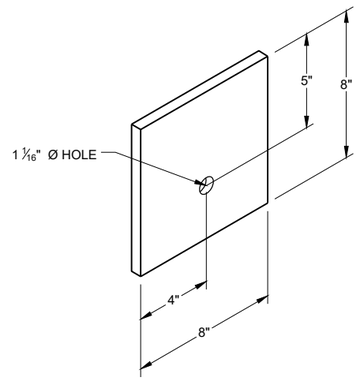
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑨ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

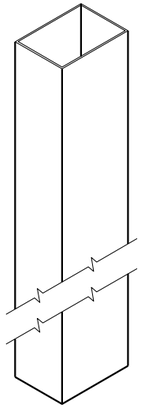
6

SDD 14B44 - 04b

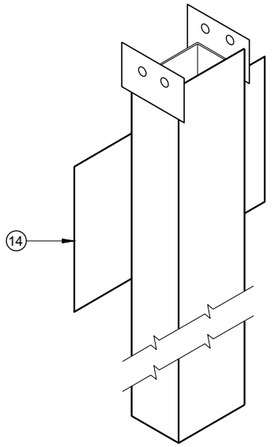
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

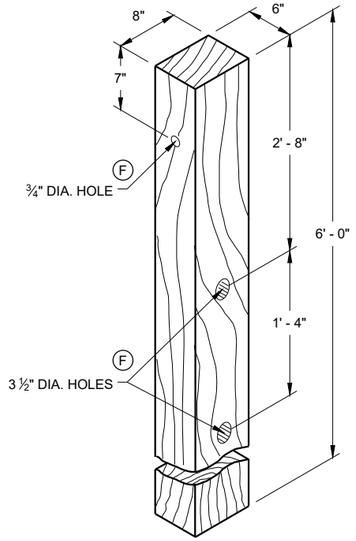
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



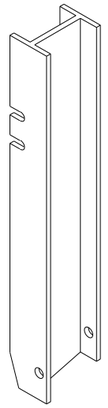
UPPER POST NO. 1 (1) (E)



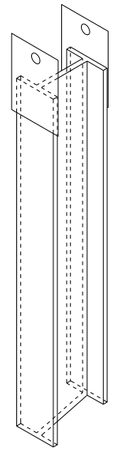
LOWER POST NO. 1 (2) (E)



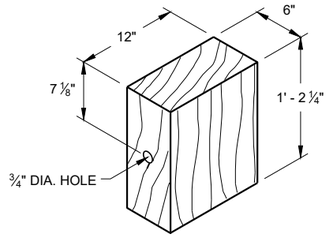
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



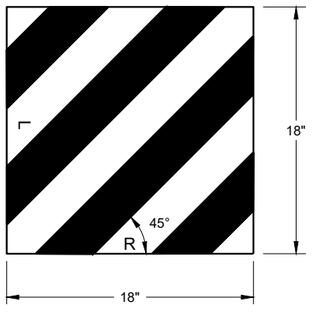
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

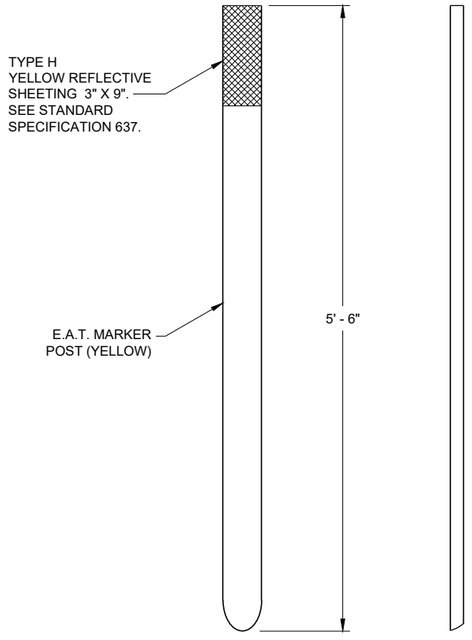


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



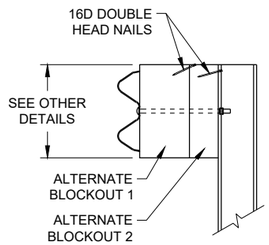
W5 - 59

REFLECTIVE SHEETING DETAIL (E)

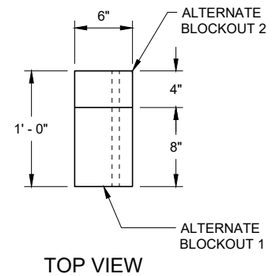


FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

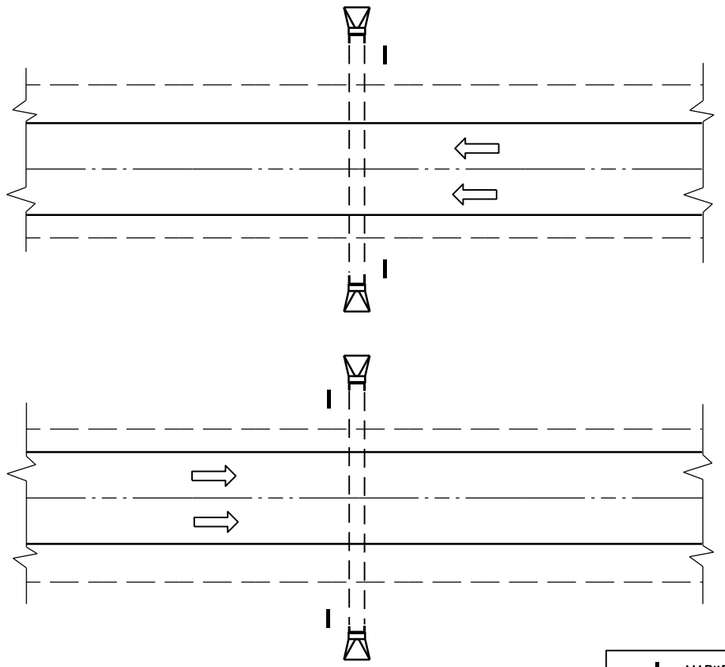
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

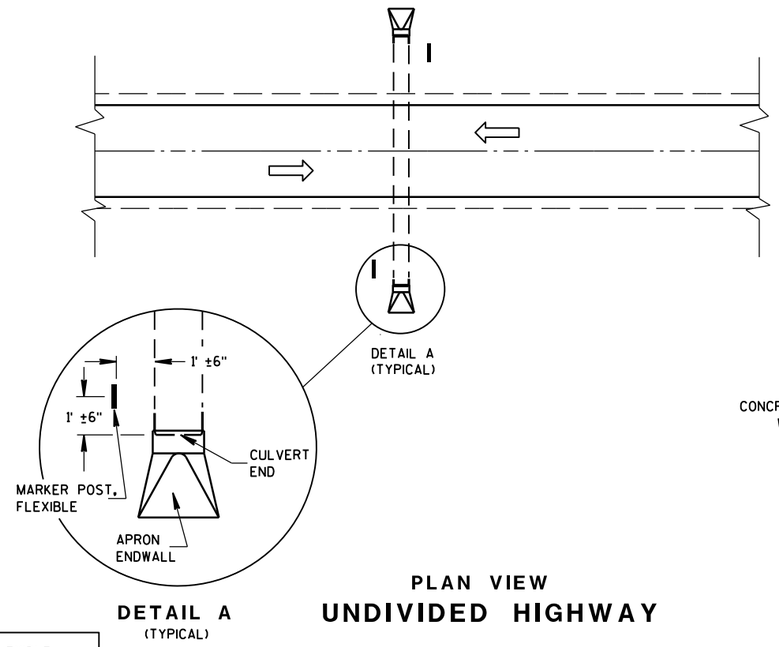
6

SDD 14B44 - 04c



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

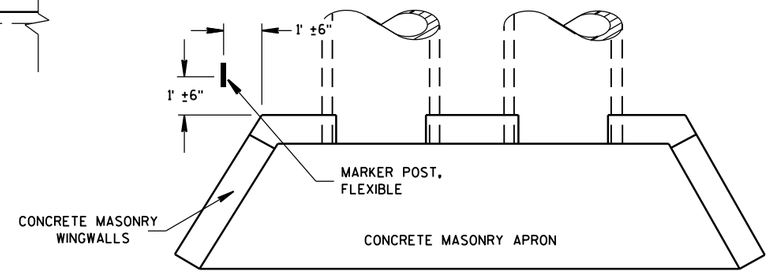
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

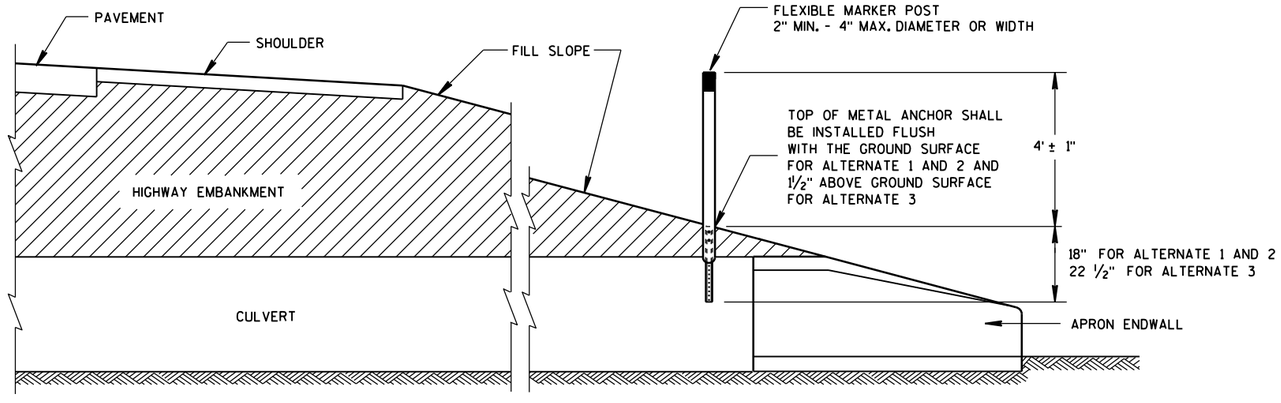
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

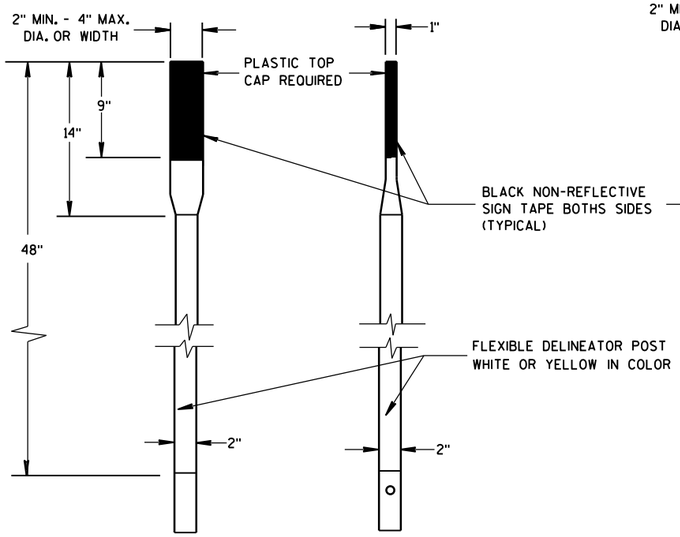
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

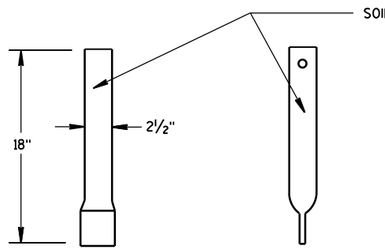
6

S.D.D. 15 A 3-2a

6

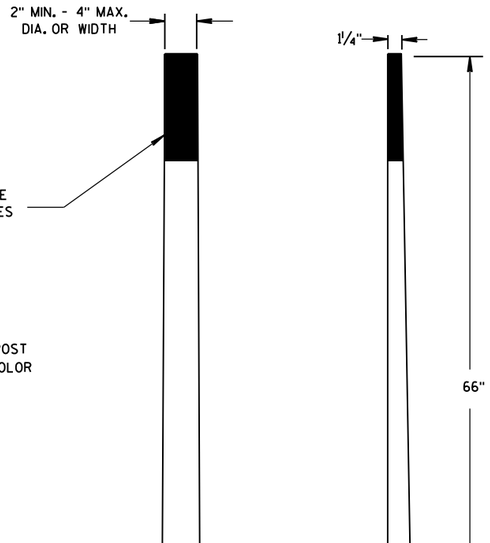
S.D.D. 15 A 3-2a





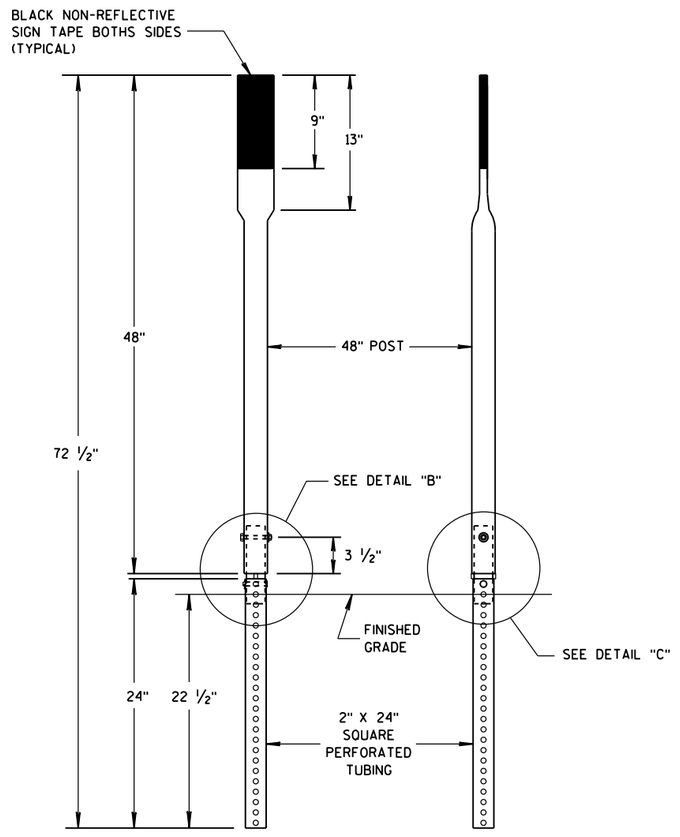
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

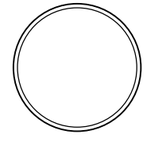
ALTERNATE 2



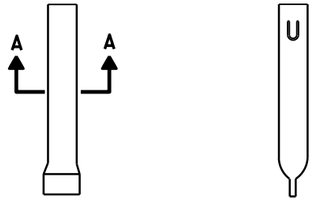
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

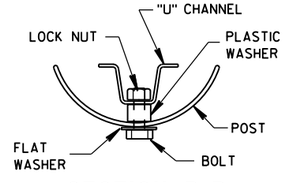


SECTION A-A

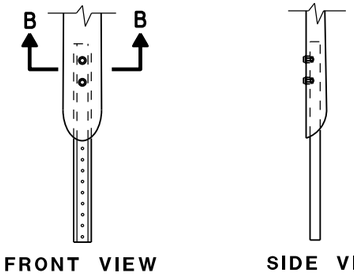


FRONT VIEW SIDE VIEW

ALTERNATE 1

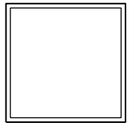


SECTION B-B

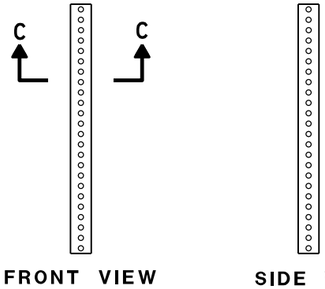


FRONT VIEW SIDE VIEW

ALTERNATE 2



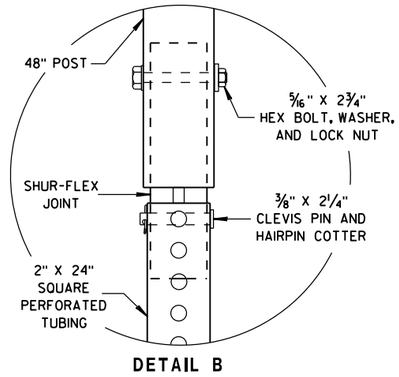
SECTION C-C



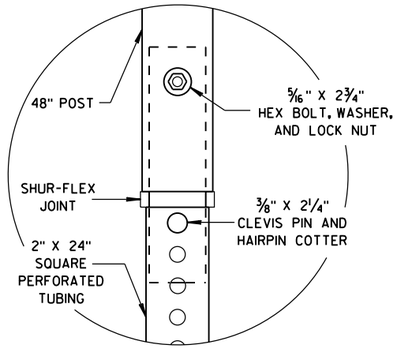
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

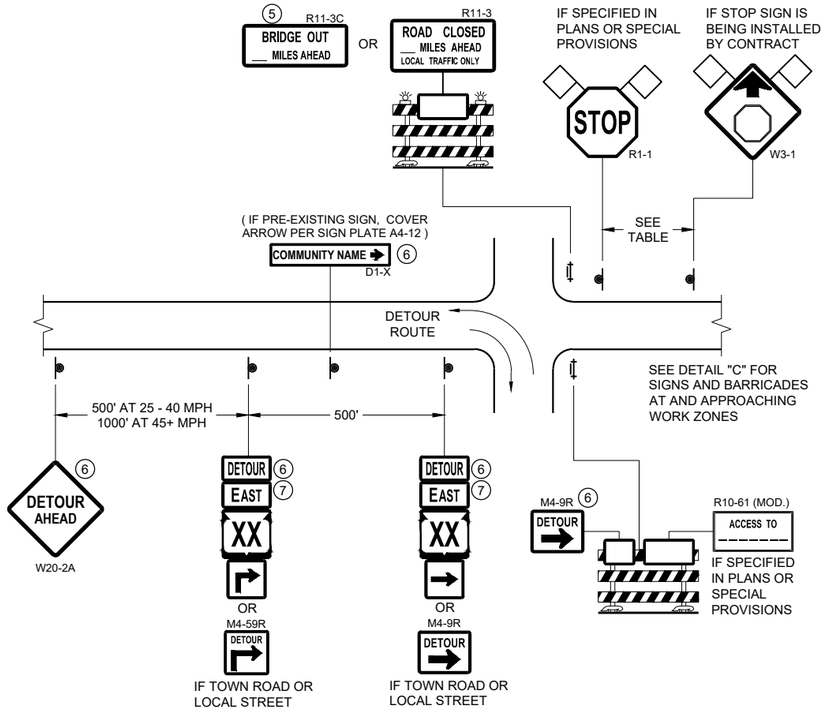
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

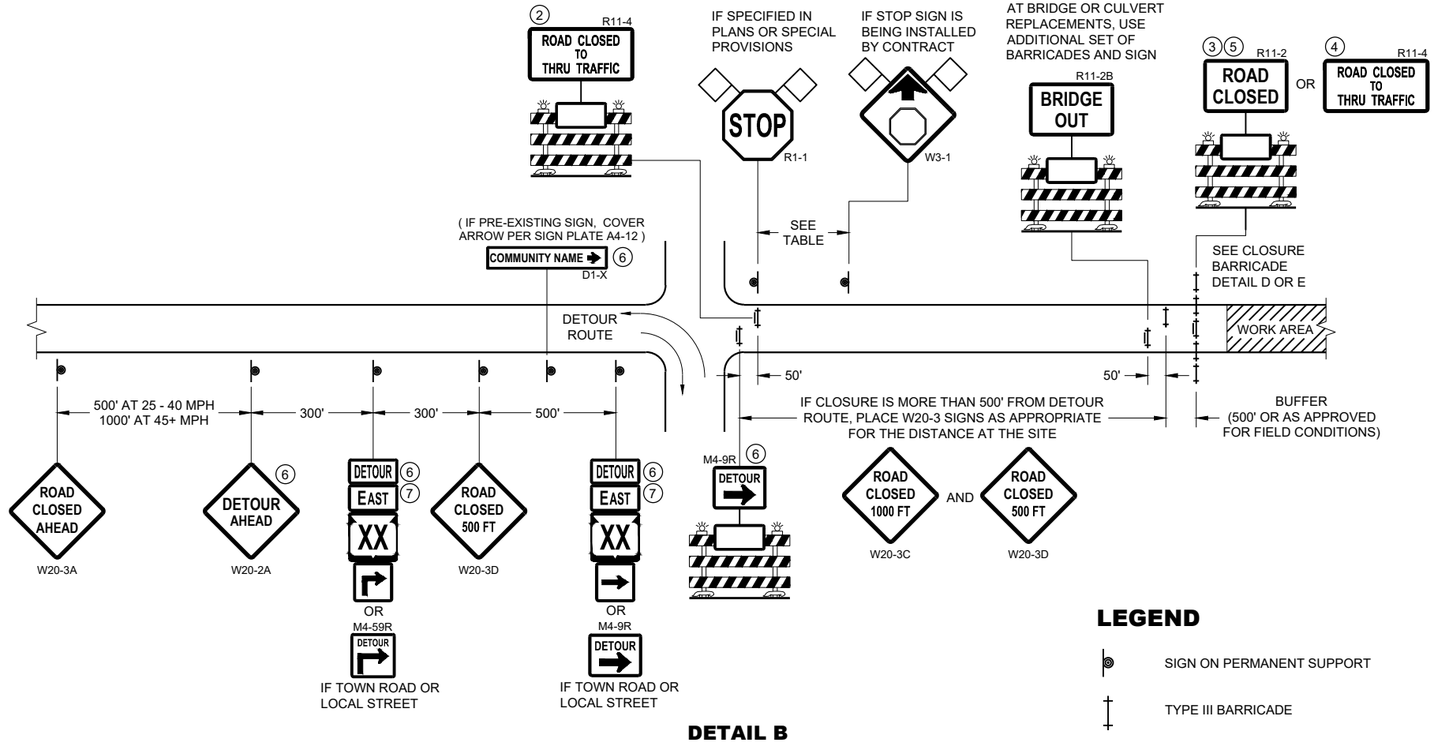
6

S.D.D. 15 A 3-2b

6

S.D.D. 15 A 3-2b



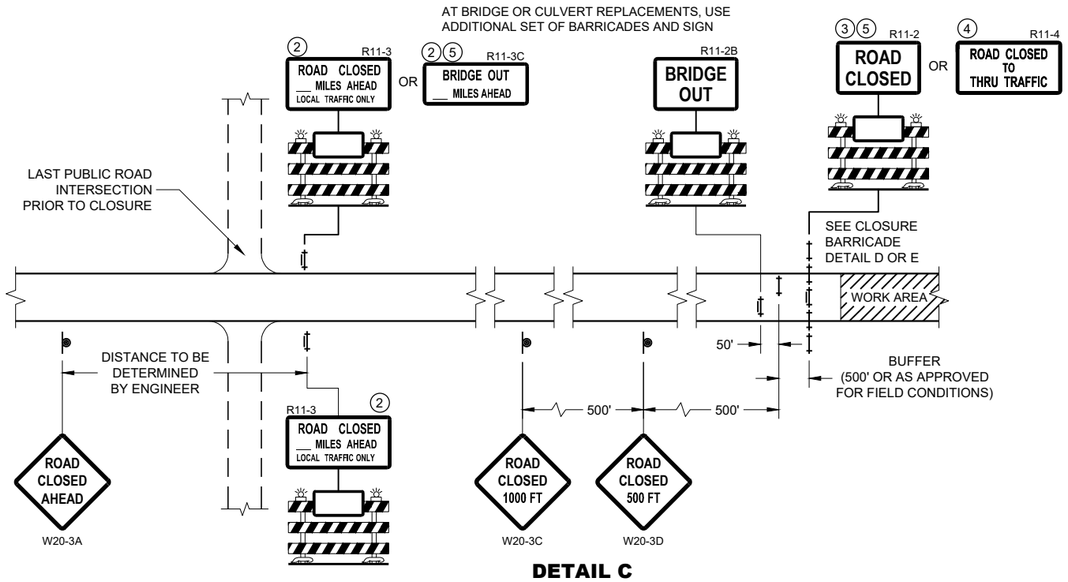


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

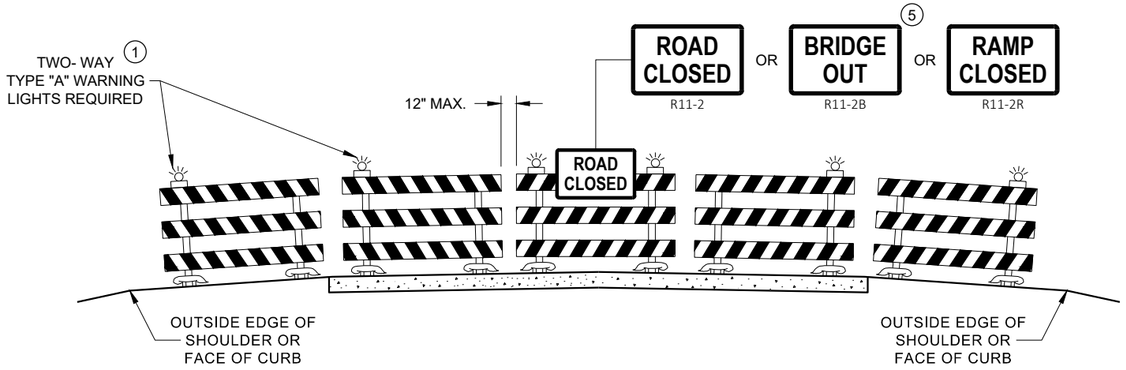
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

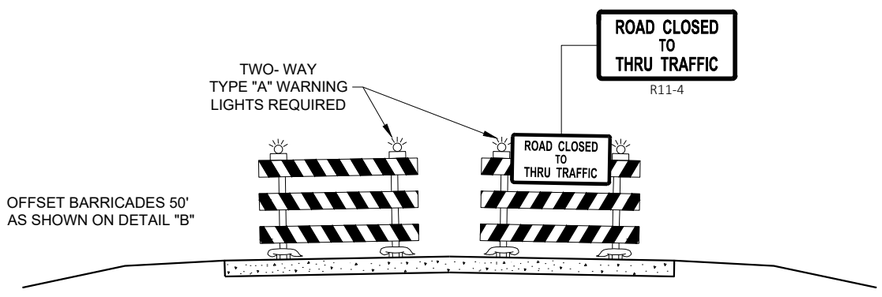
6

SDD 15C02 - 08a

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

6

SDD 15C02 - 08b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

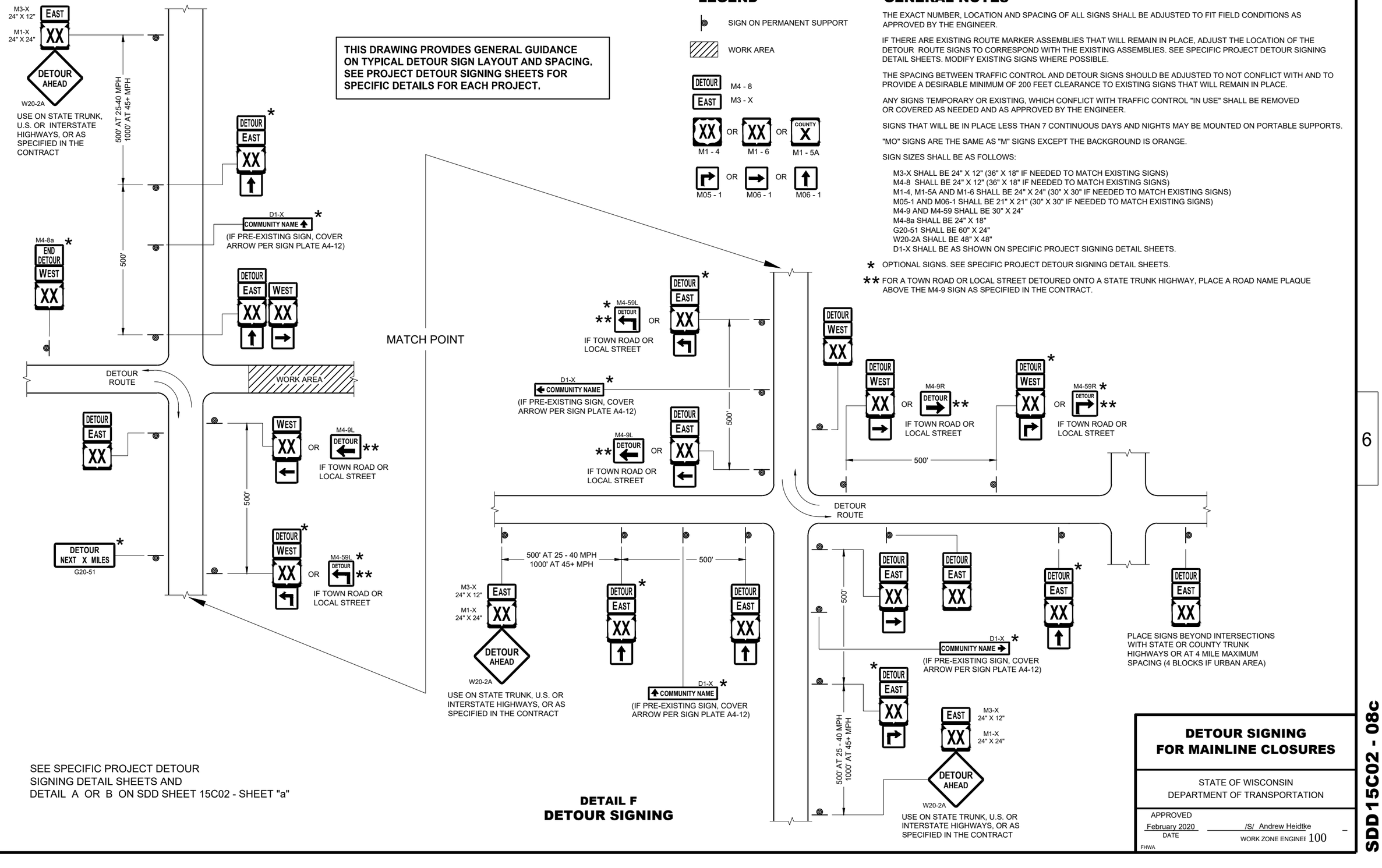
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

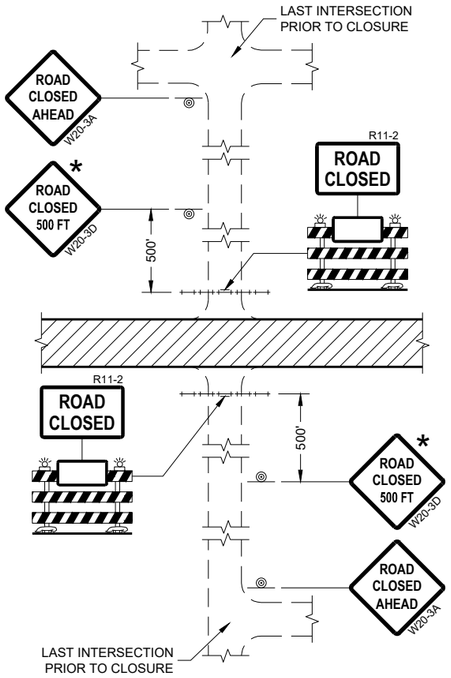
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

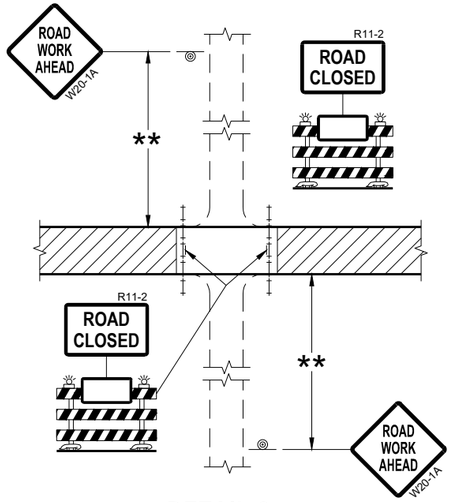
SDD 15C02 - 08c

6

SDD 15C02 - 08c



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

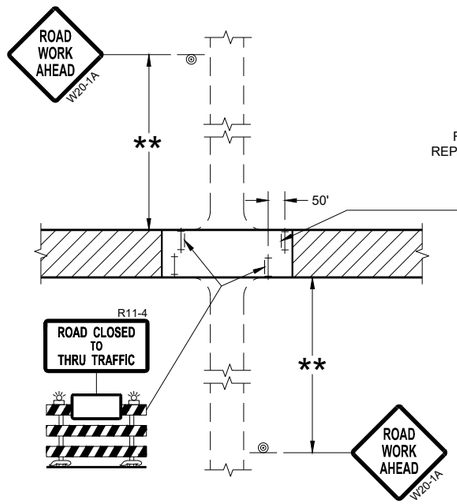
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

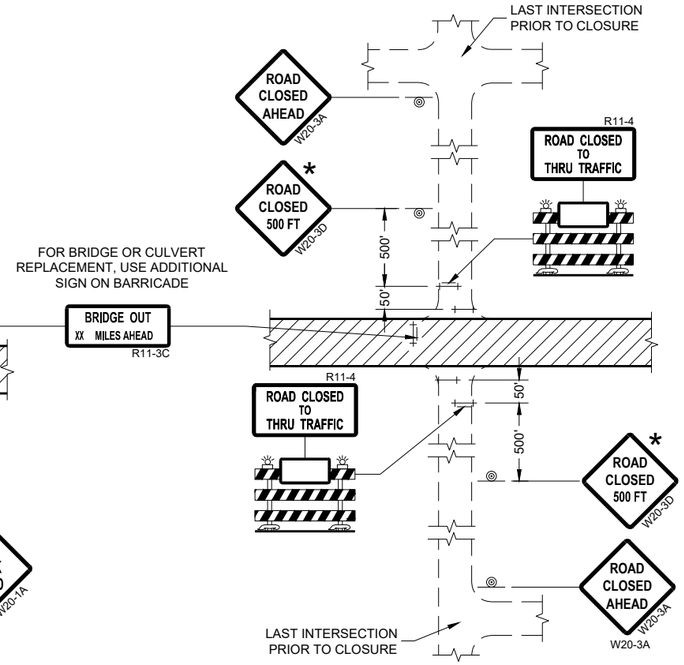
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15C03 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

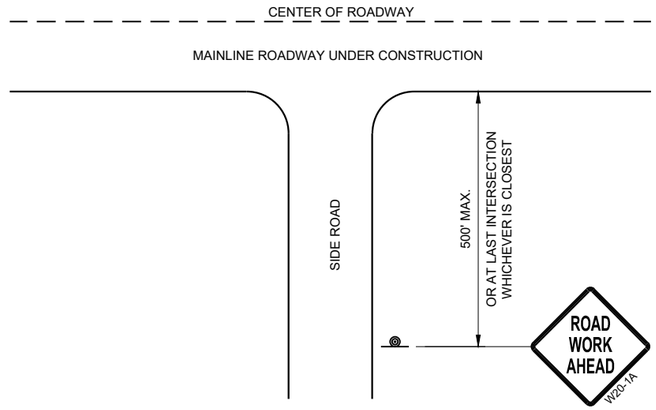
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



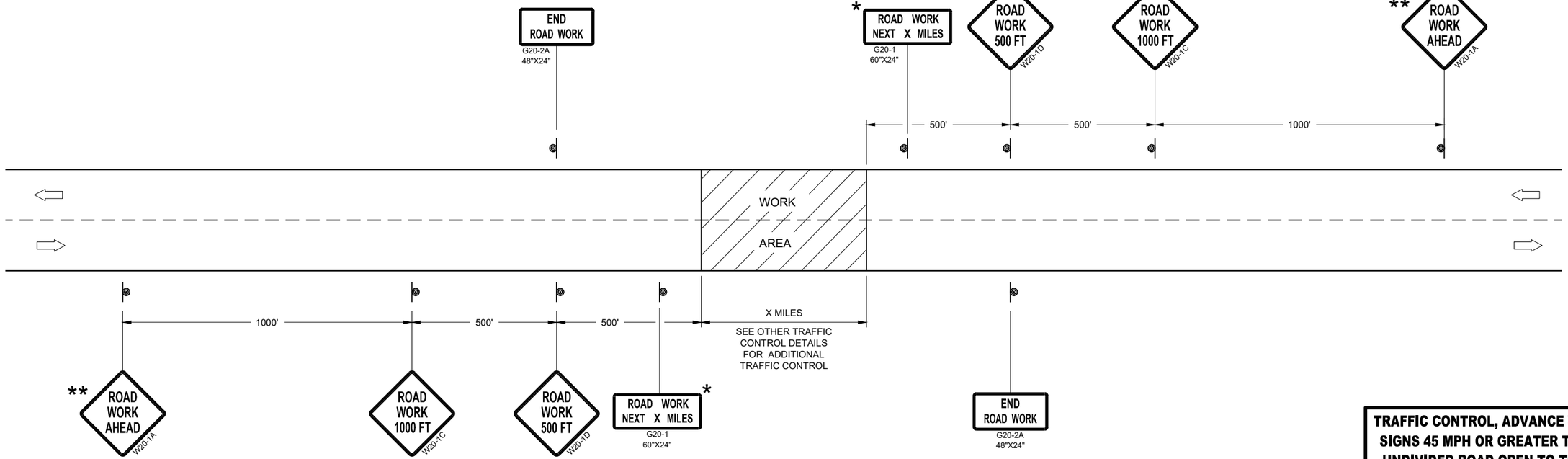
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C04 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

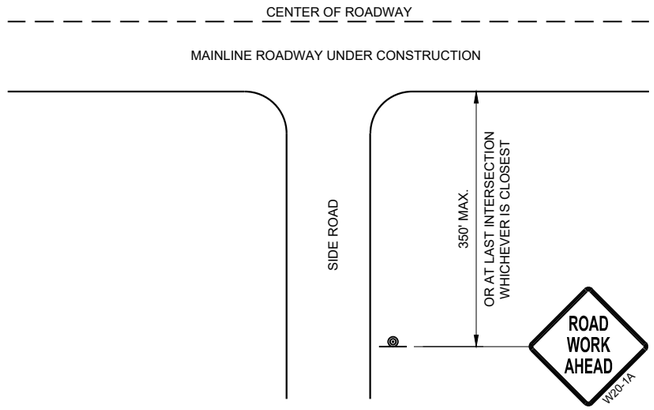
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



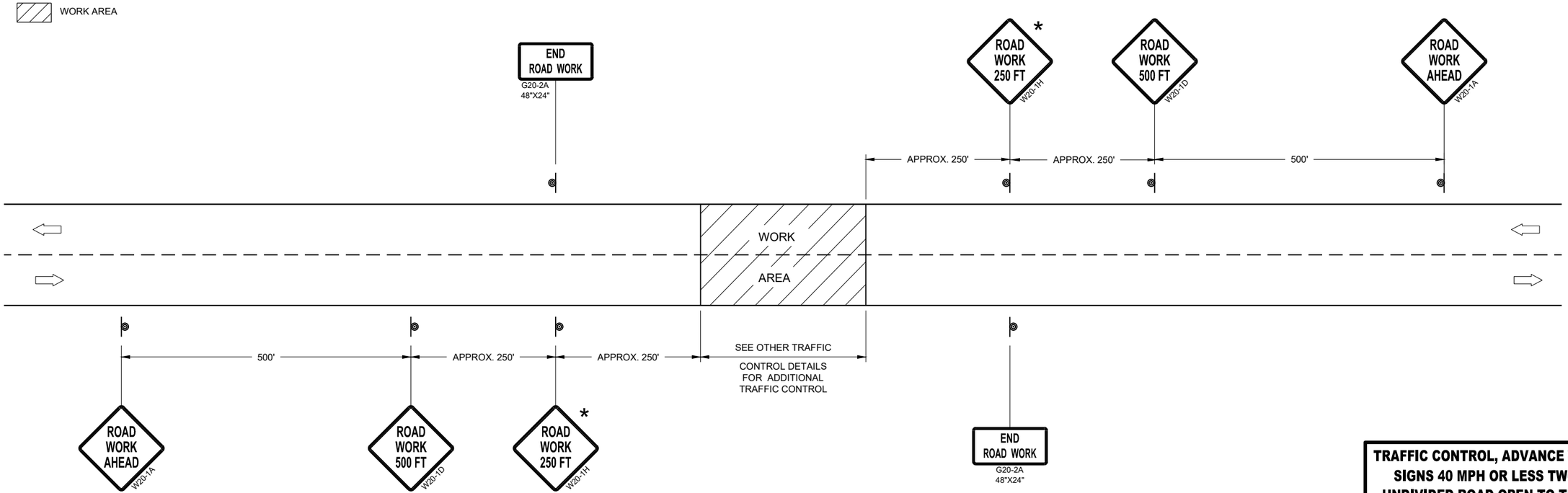
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

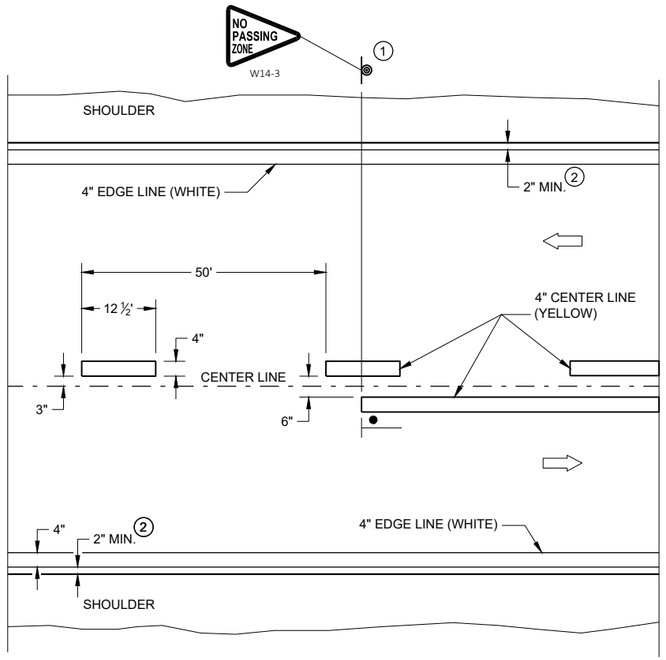
APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

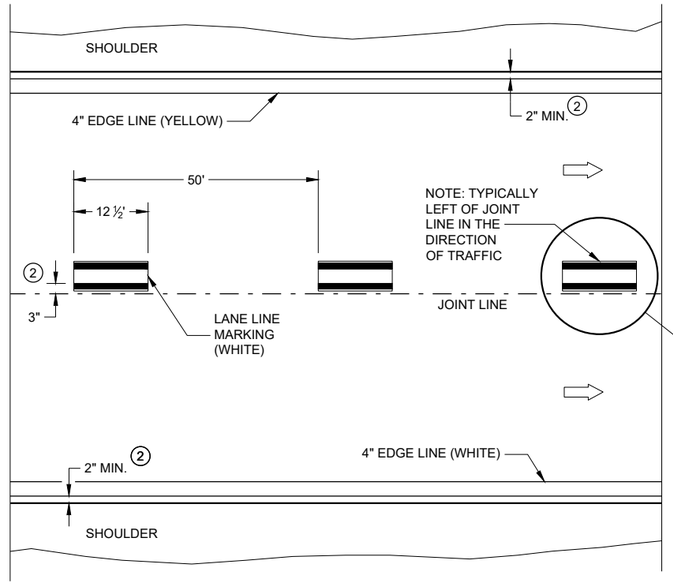
FHWA

6

SDD 15C05 - 05

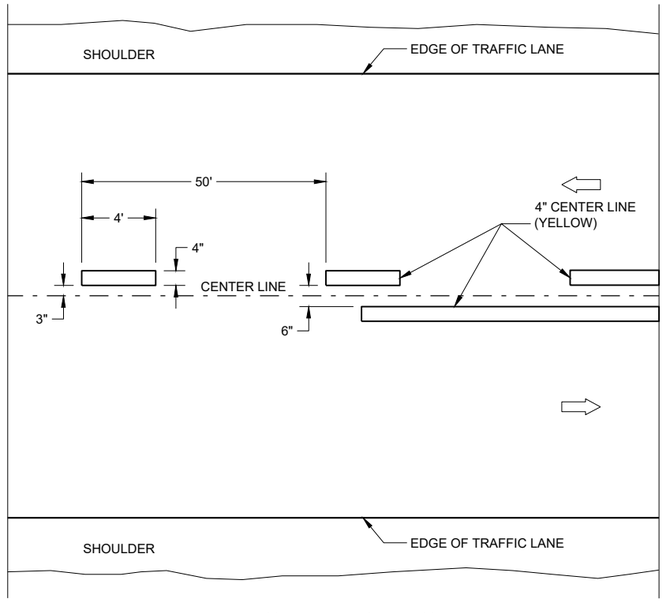


TWO WAY TRAFFIC

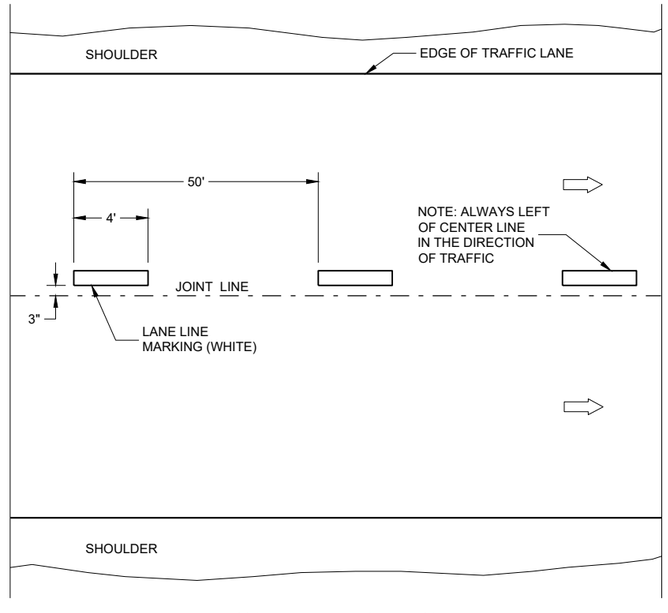


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

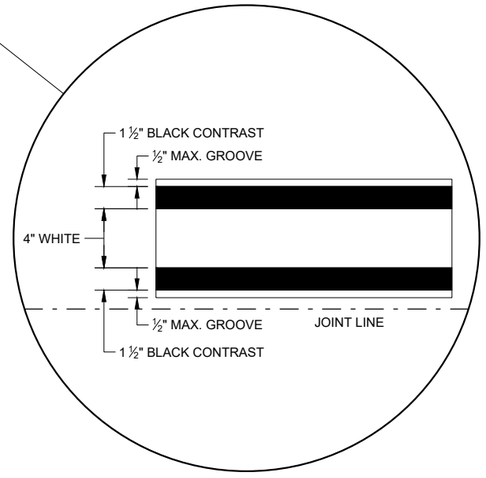
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Matthew Rauch
STATEWIDE SIGNING AND M ENGINEER

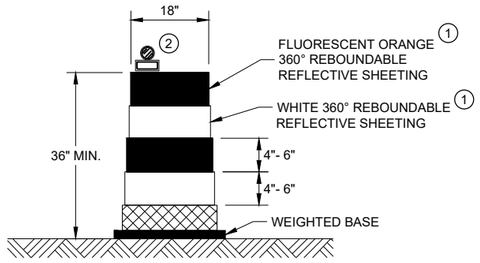
FHWA

SDD 15C08 - 20a

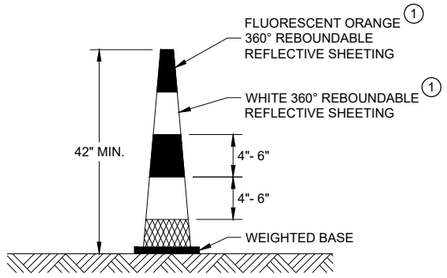
SDD 15C08 - 20a

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

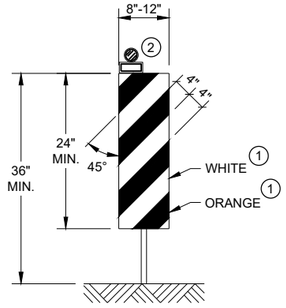


DRUM



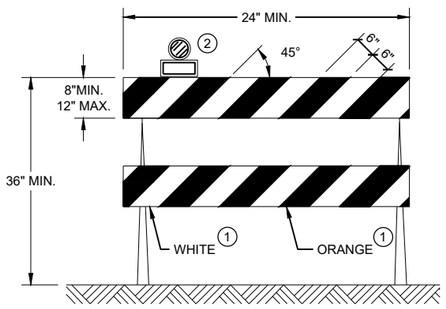
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



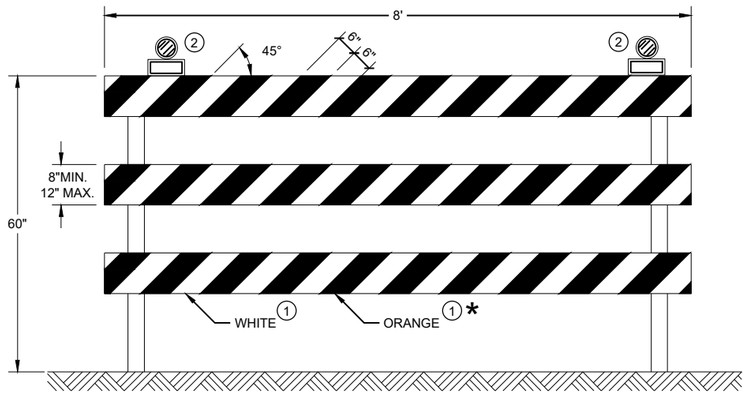
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

SDD 15C11 - 07b

6

SDD 15C11 - 07b

LEGEND

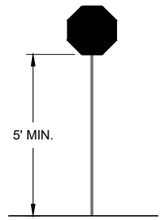
SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



STOP/SLOW PADDLE ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

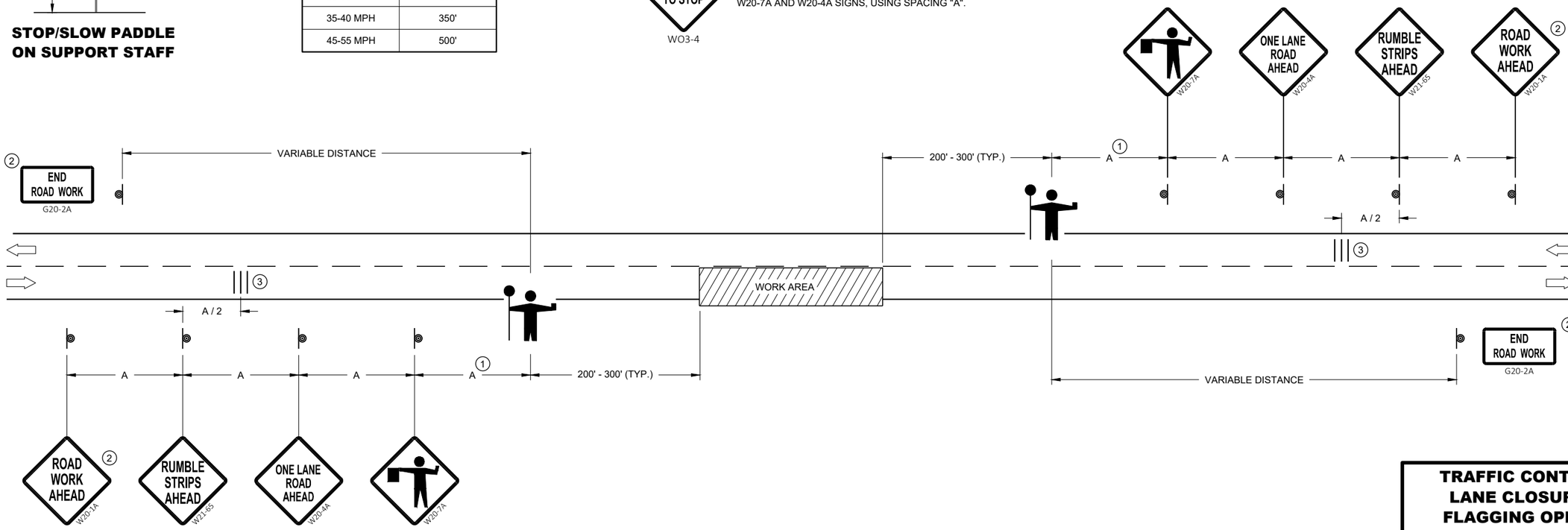
DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C12 - 07

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

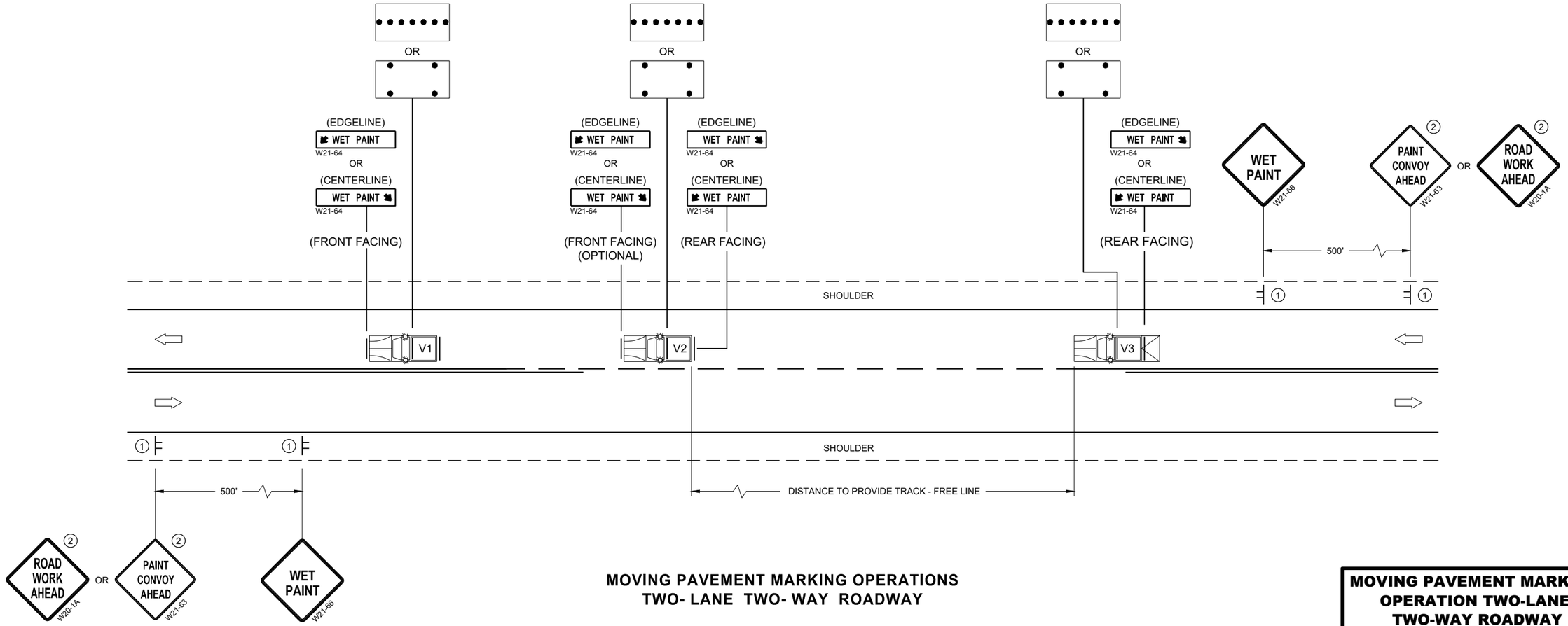
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 18" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

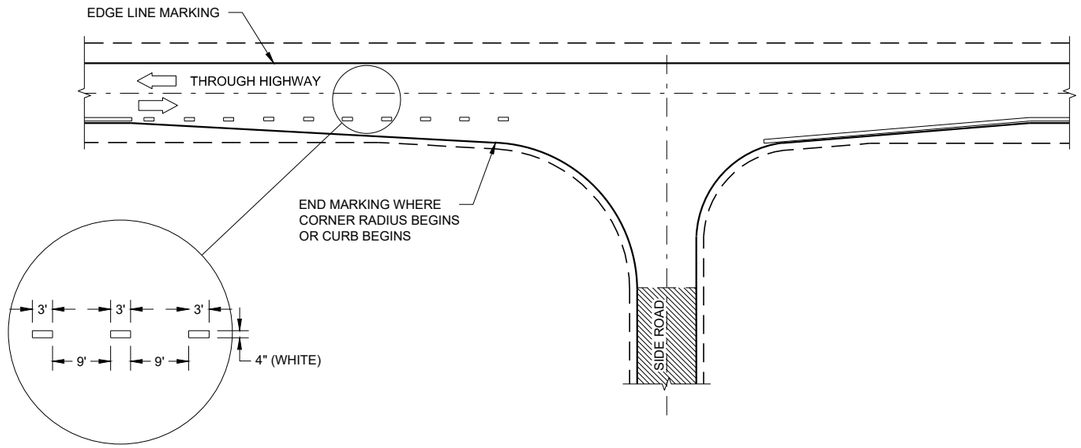
APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

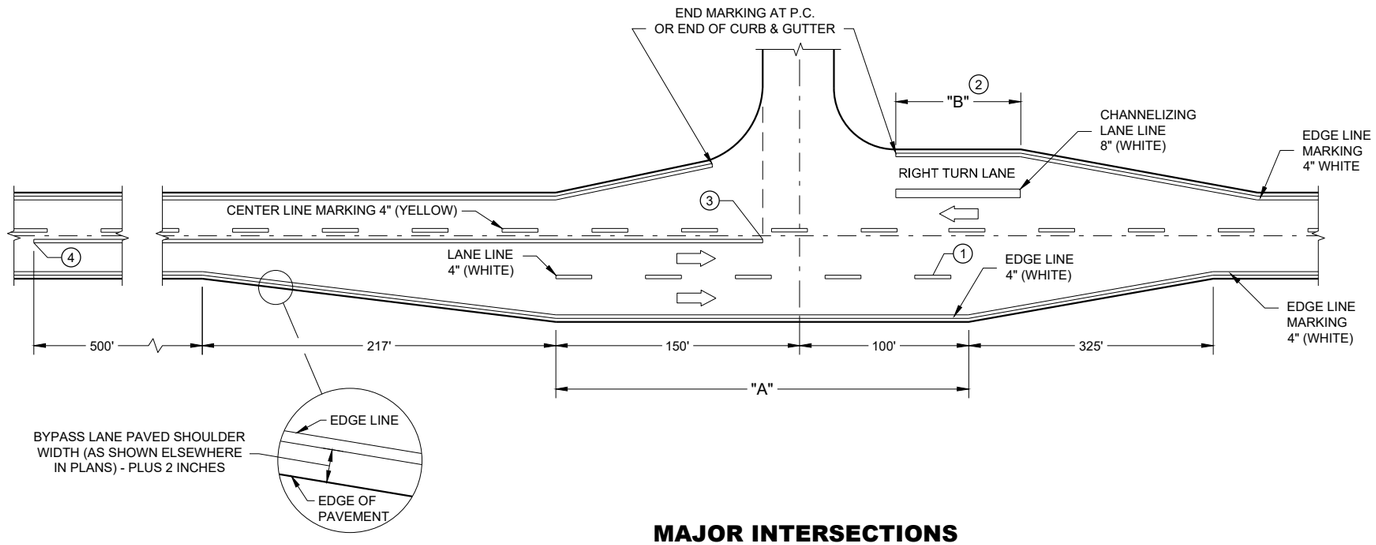
FHWA

SDD 15C19 - 06a

SDD 15C19 - 06a



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

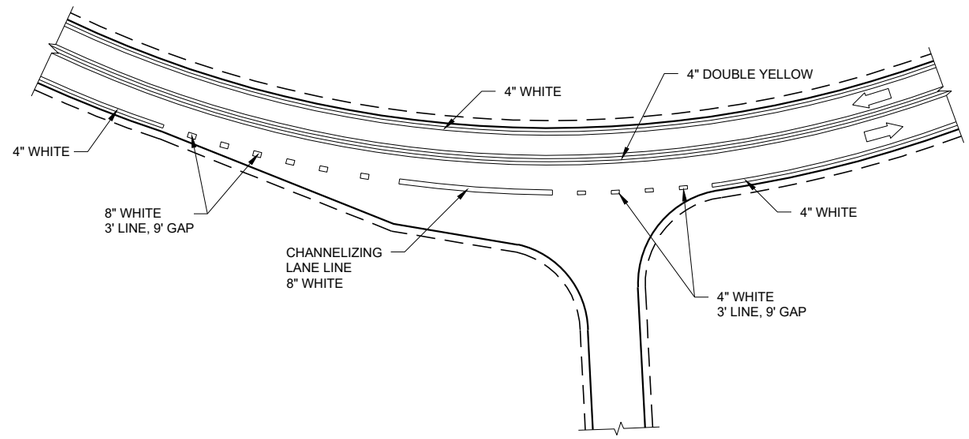
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C35 - 04a

6

SDD 15C35 - 04a

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

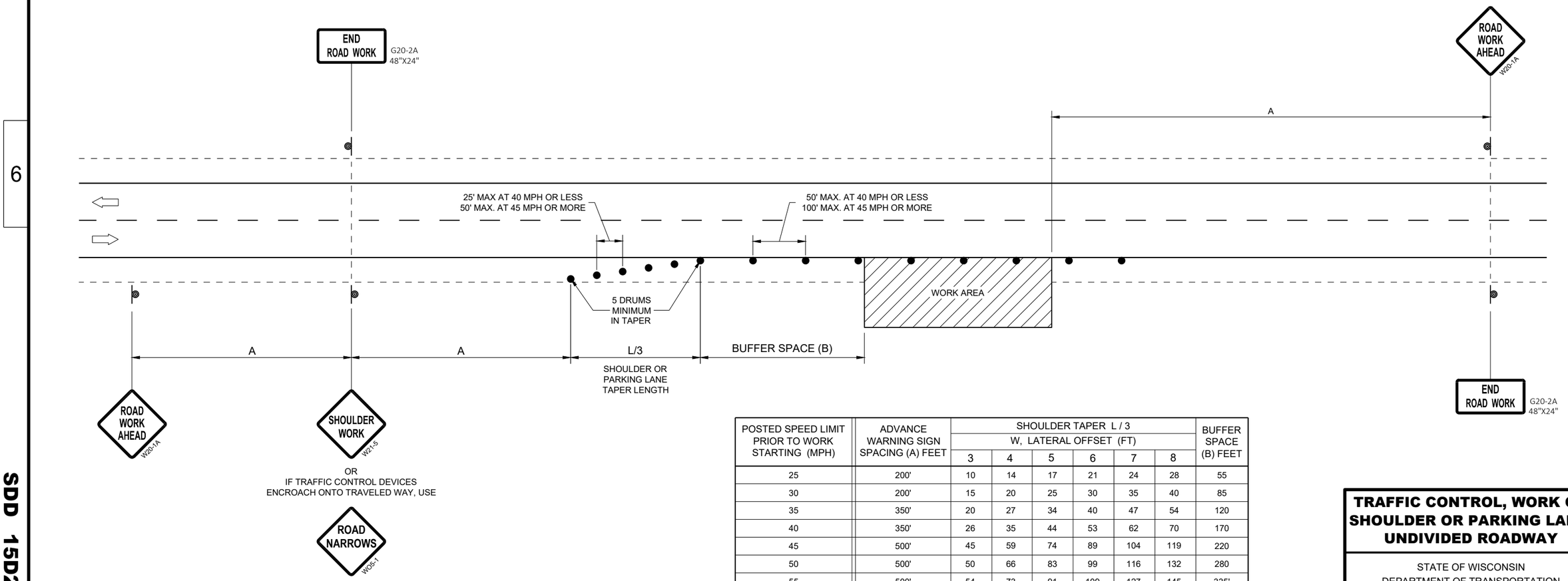
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

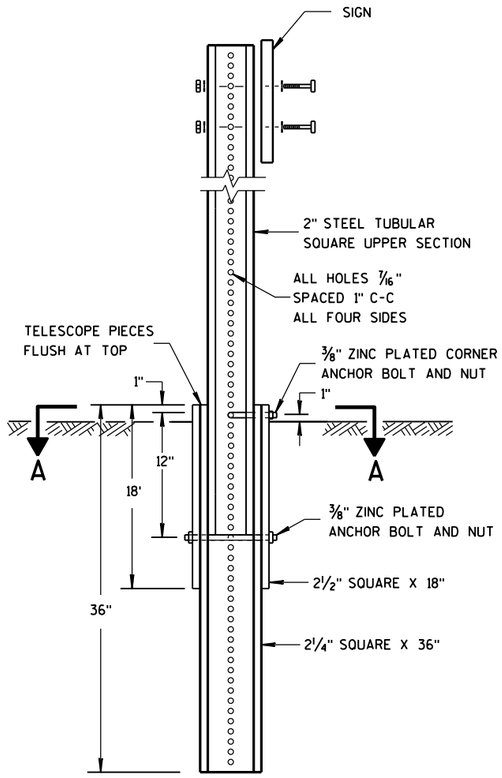
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

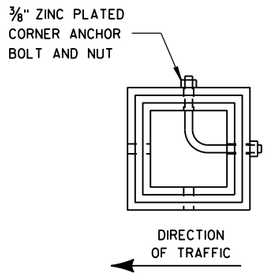
FHWA

SDD 15D28 - 04

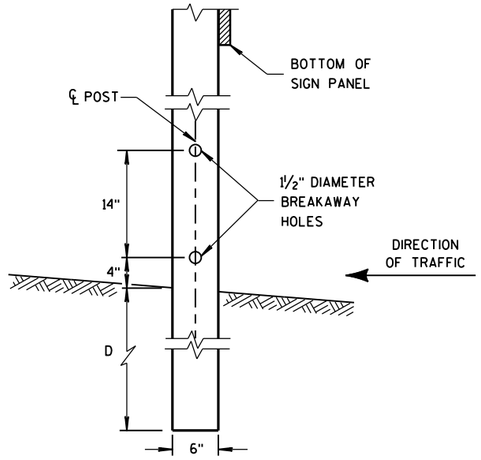
SDD 15D28 - 04



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



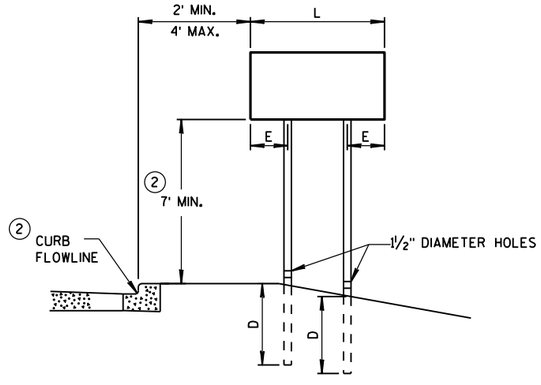
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

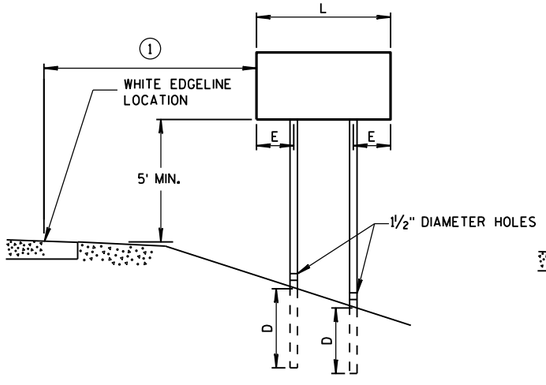
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

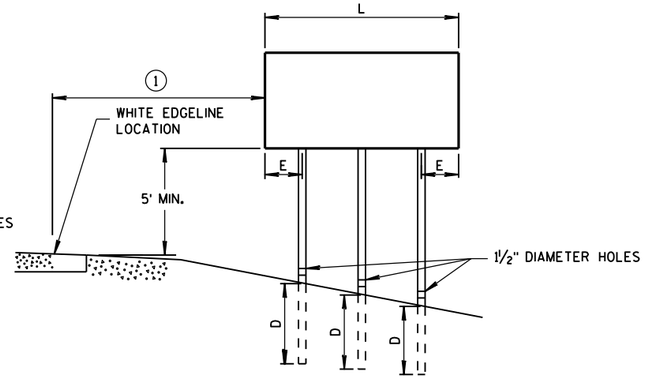
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

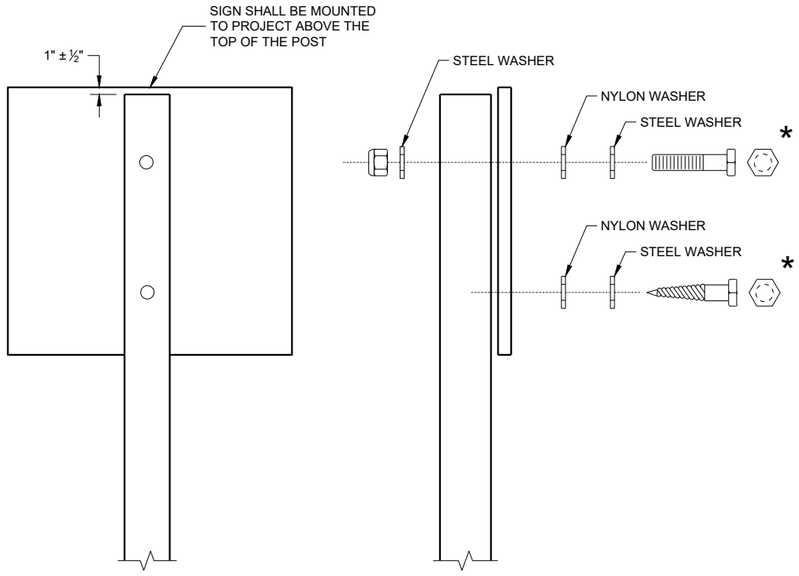
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 D 38-2a



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM
   DESIGNATION: A 153, CLASS D, OR SC 3
B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM
   DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POST (4" x 6")
- LAG SCREWS - ⅜" x 3"
- MACHINE BOLTS - 5/16" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
- MACHINE BOLTS - ⅜" x 3 ¼" LENGTH W/NUTS
- RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
- 1 ¼" O.D. x ⅜" I.D. x 1/16" STEEL
- 1 ¼" O.D. x ⅜" I.D. x 0.080 NYLON

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

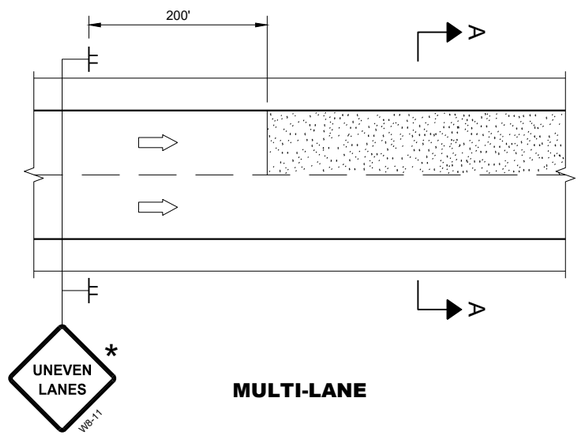
SDD 15D38 - 02b

SDD15D38 - 02b

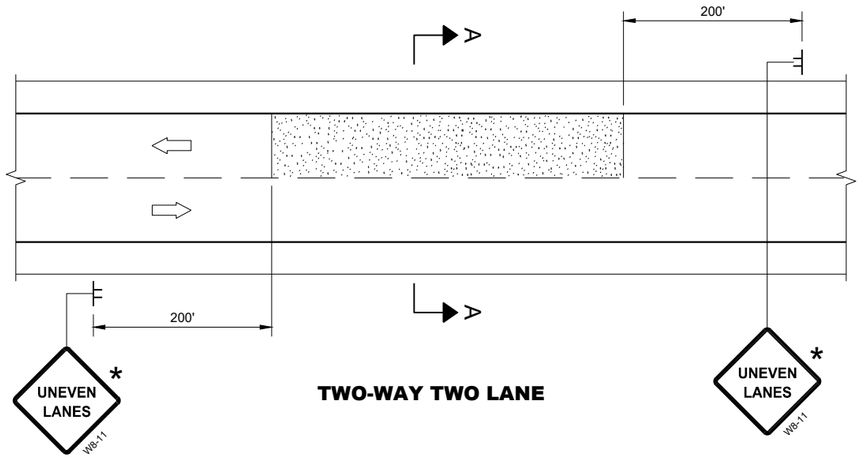
ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA



MULTI-LANE



TWO-WAY TWO LANE

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

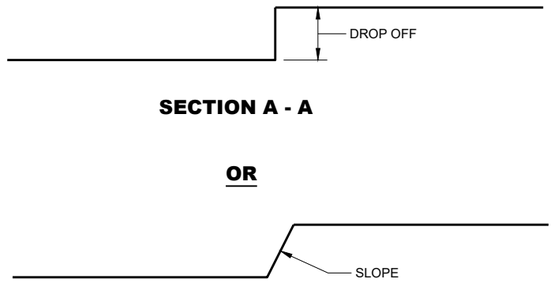
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

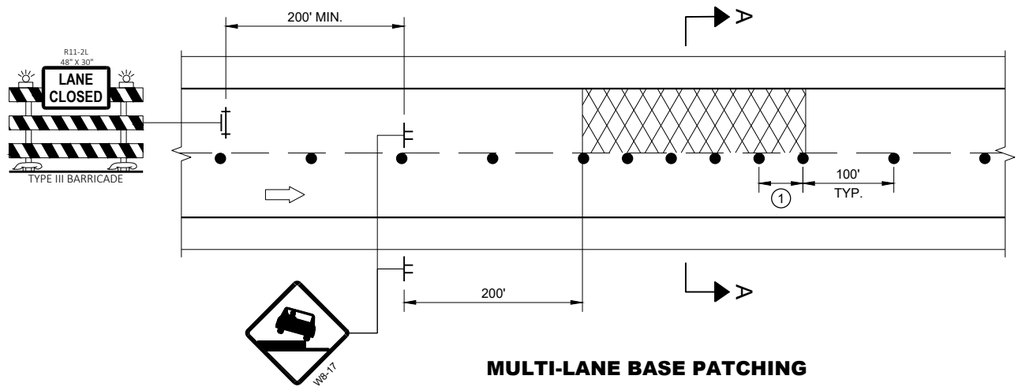
* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

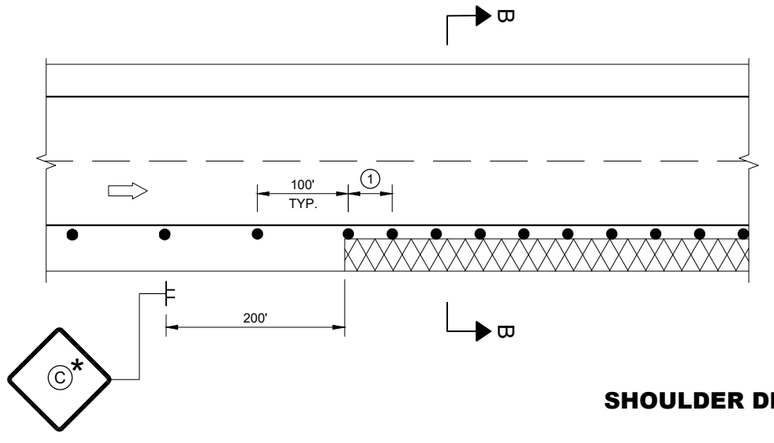
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE



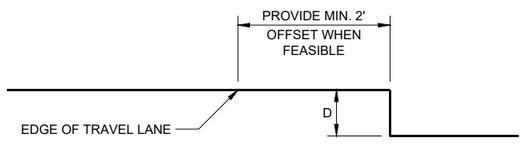


MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D39 - 02

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

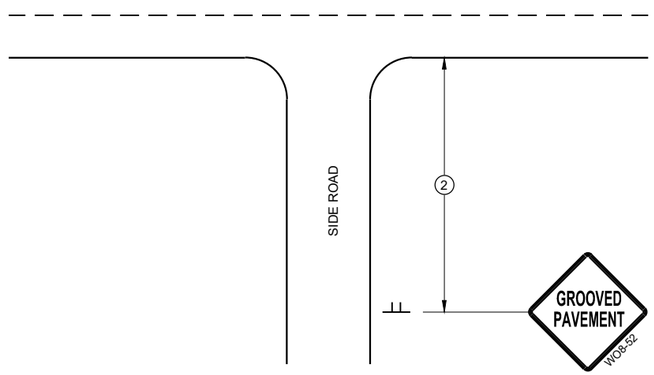
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

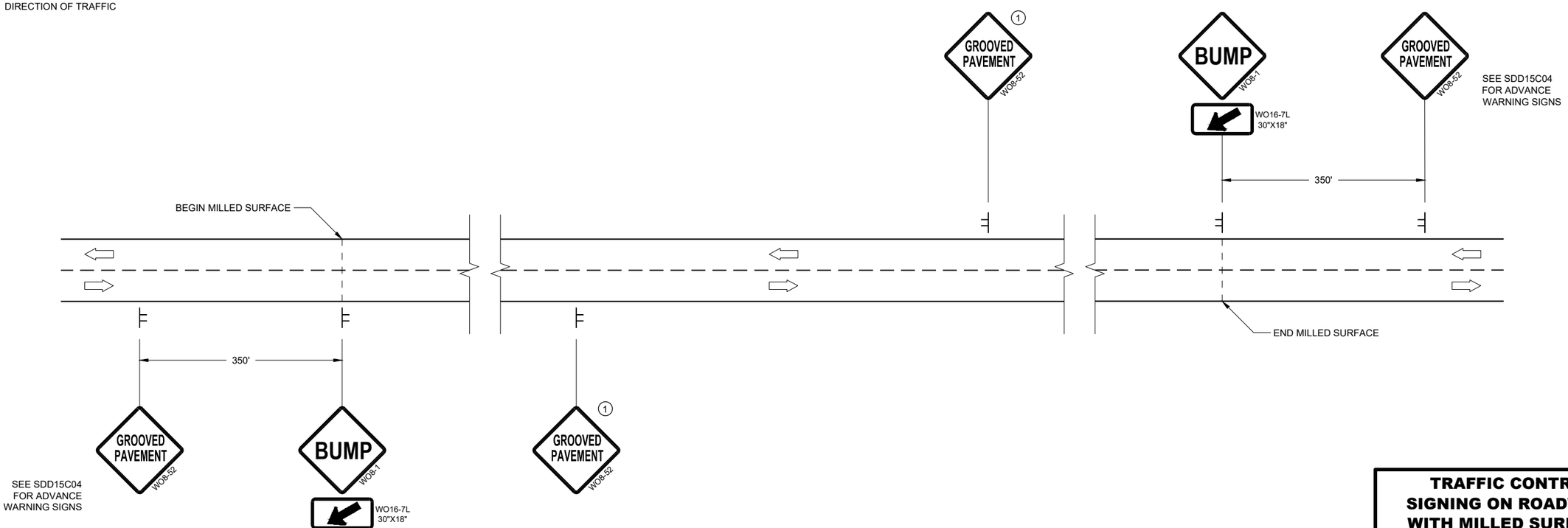
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6
SDD 15D44 - 02

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

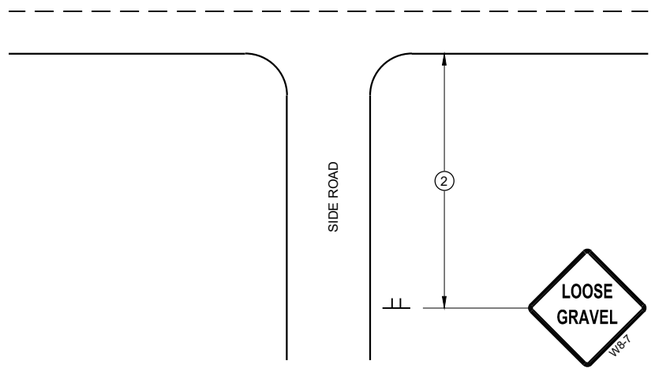
(1) PLACE SIGNS 350' IN ADVANCE OF CHIP SEALED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

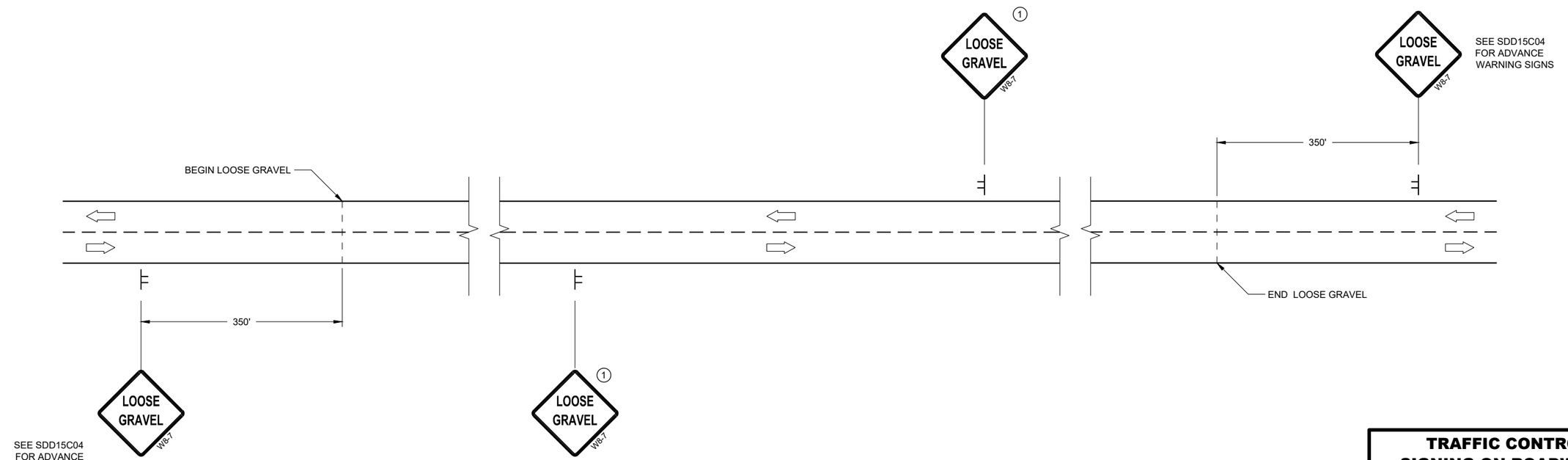
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON CHIP SEALED SURFACES

TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

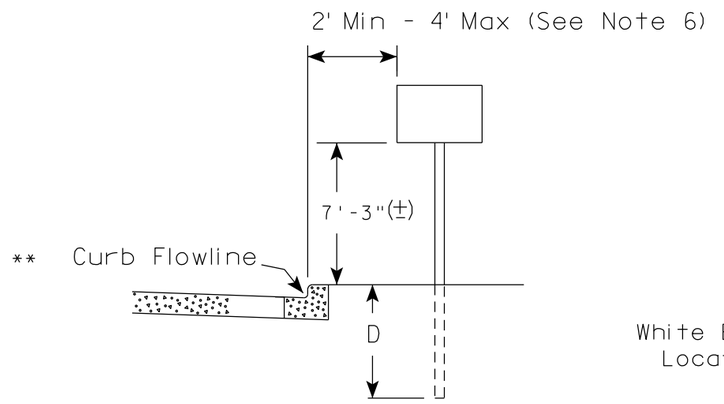
6

SDD 15D45 - 02

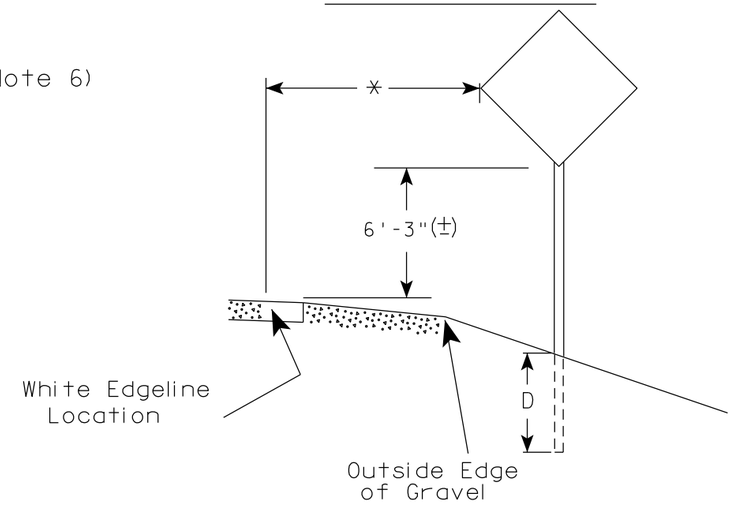
6

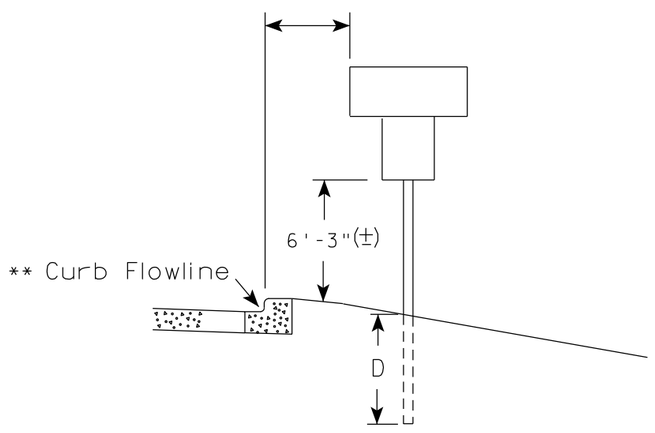
SDD 15D45 - 02

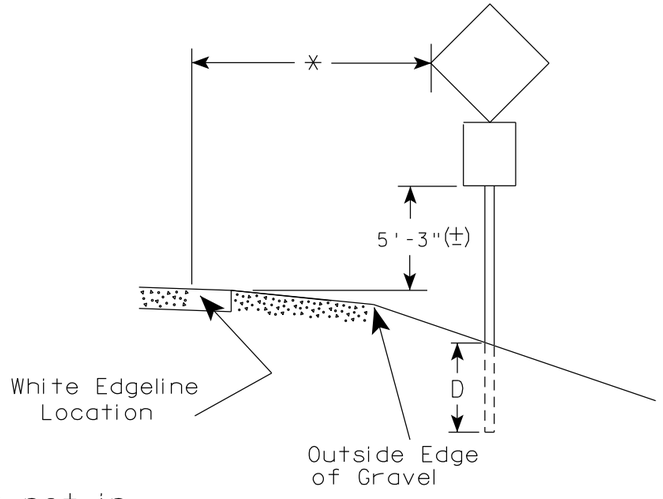
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

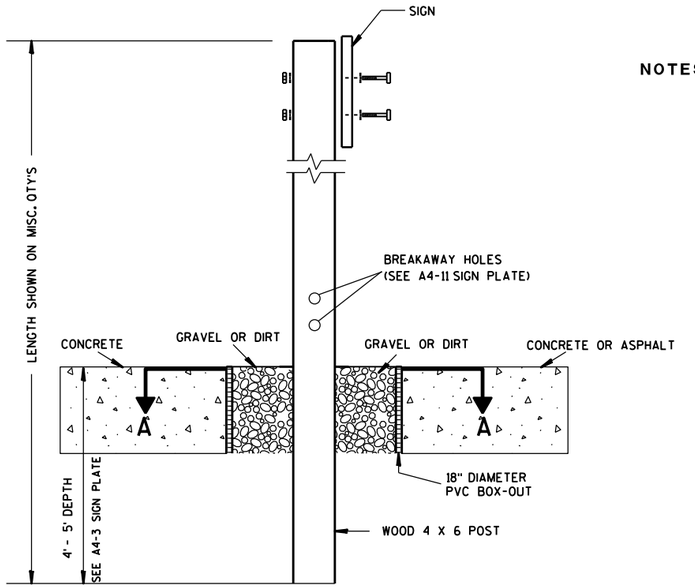
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

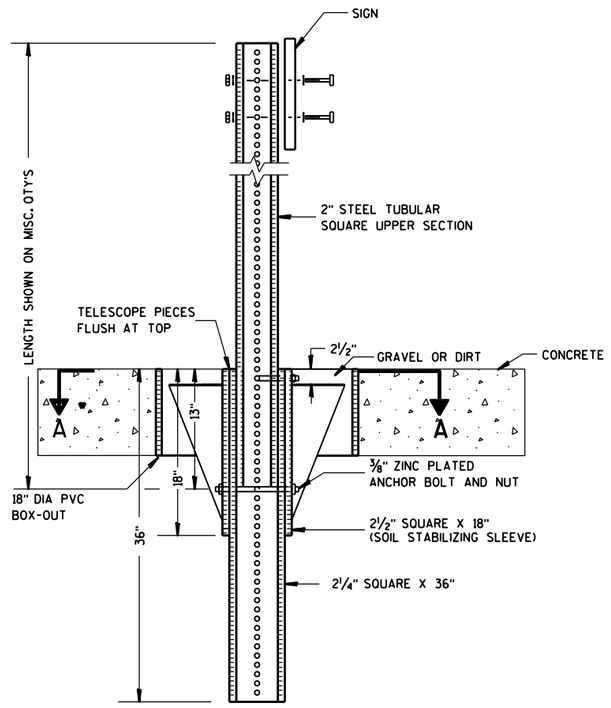
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 115	E



ELEVATION VIEW

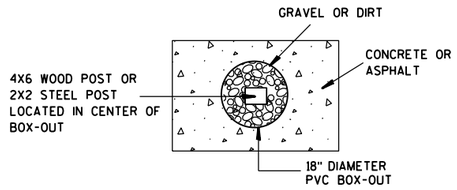
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

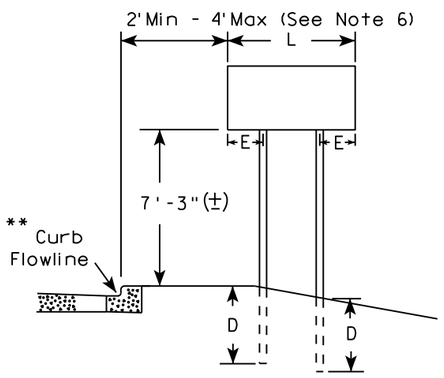
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

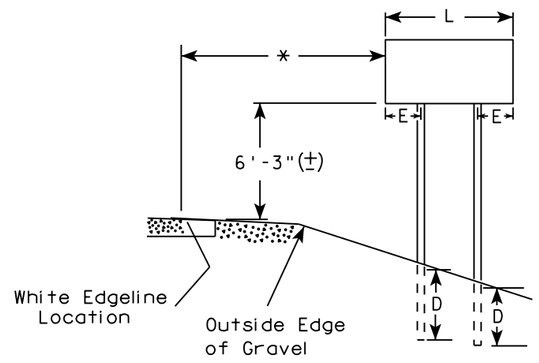
DATE 1/27/14 PLATE NO. A4-3B.1

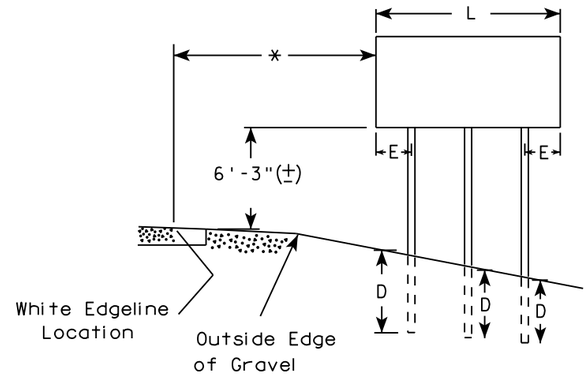
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

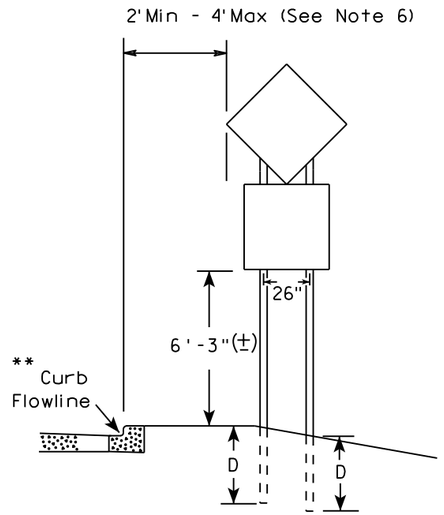
URBAN AREA



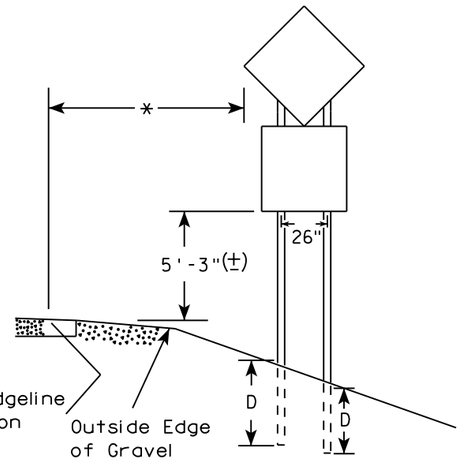
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

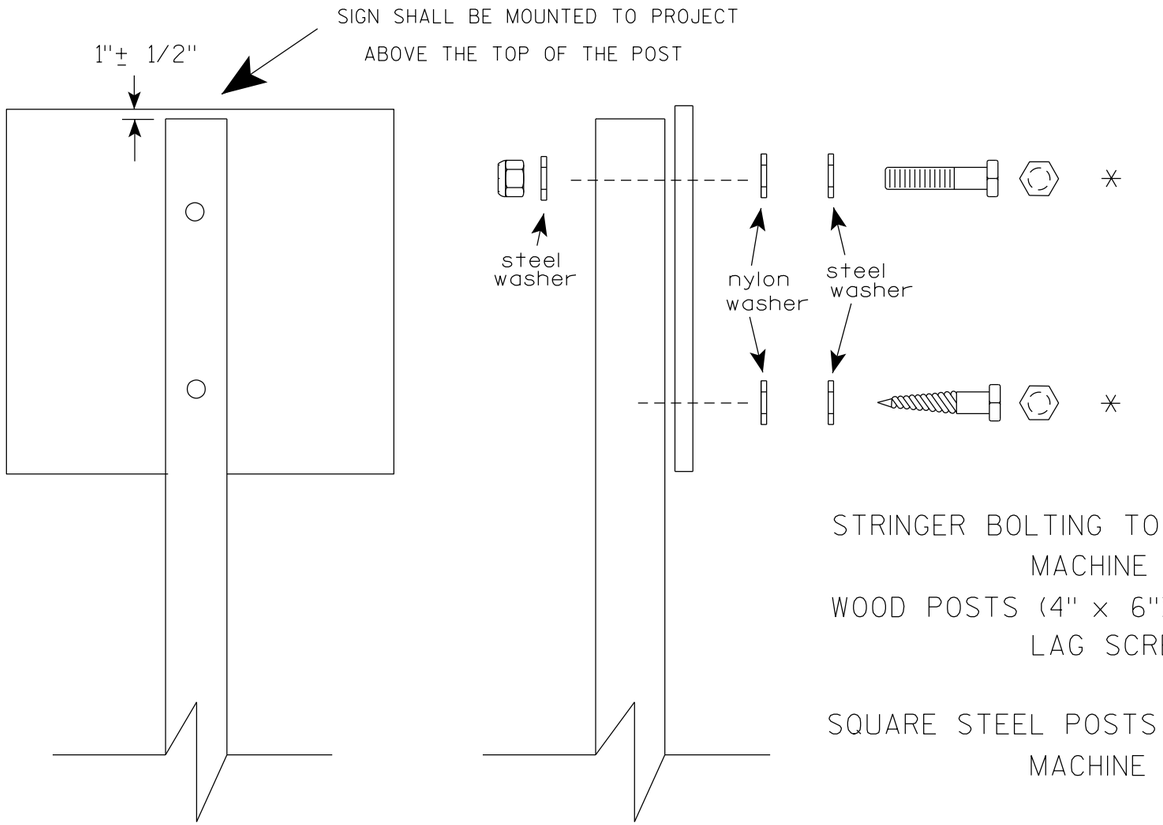
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 117	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

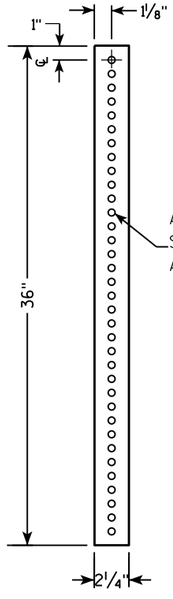
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

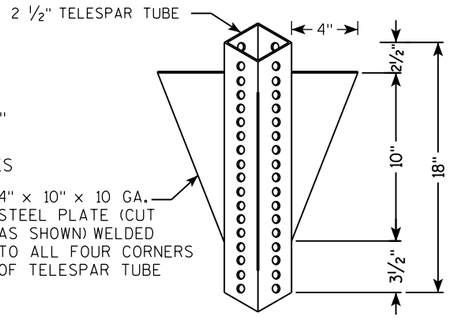
SHEET NO: 118 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

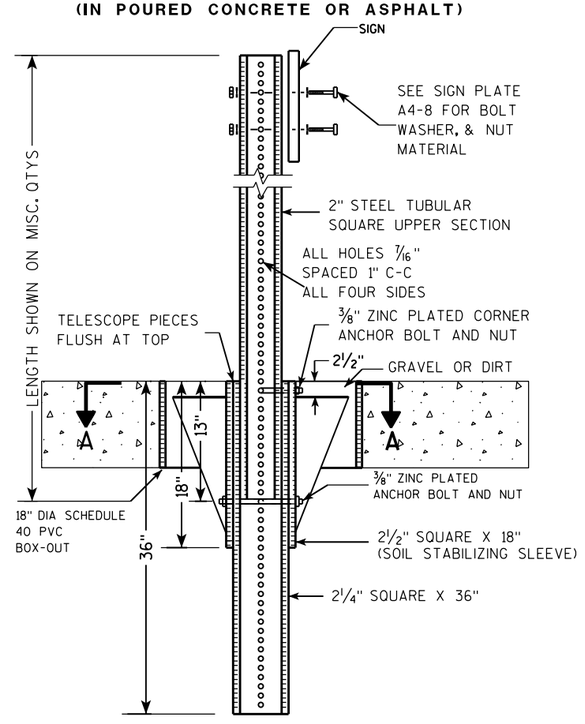
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



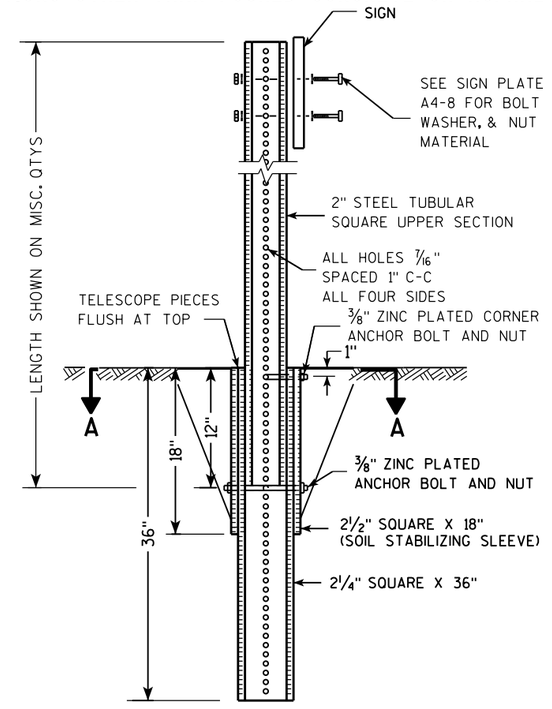
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

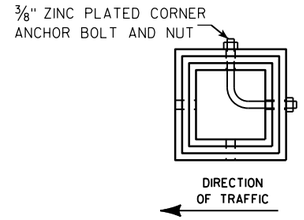


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

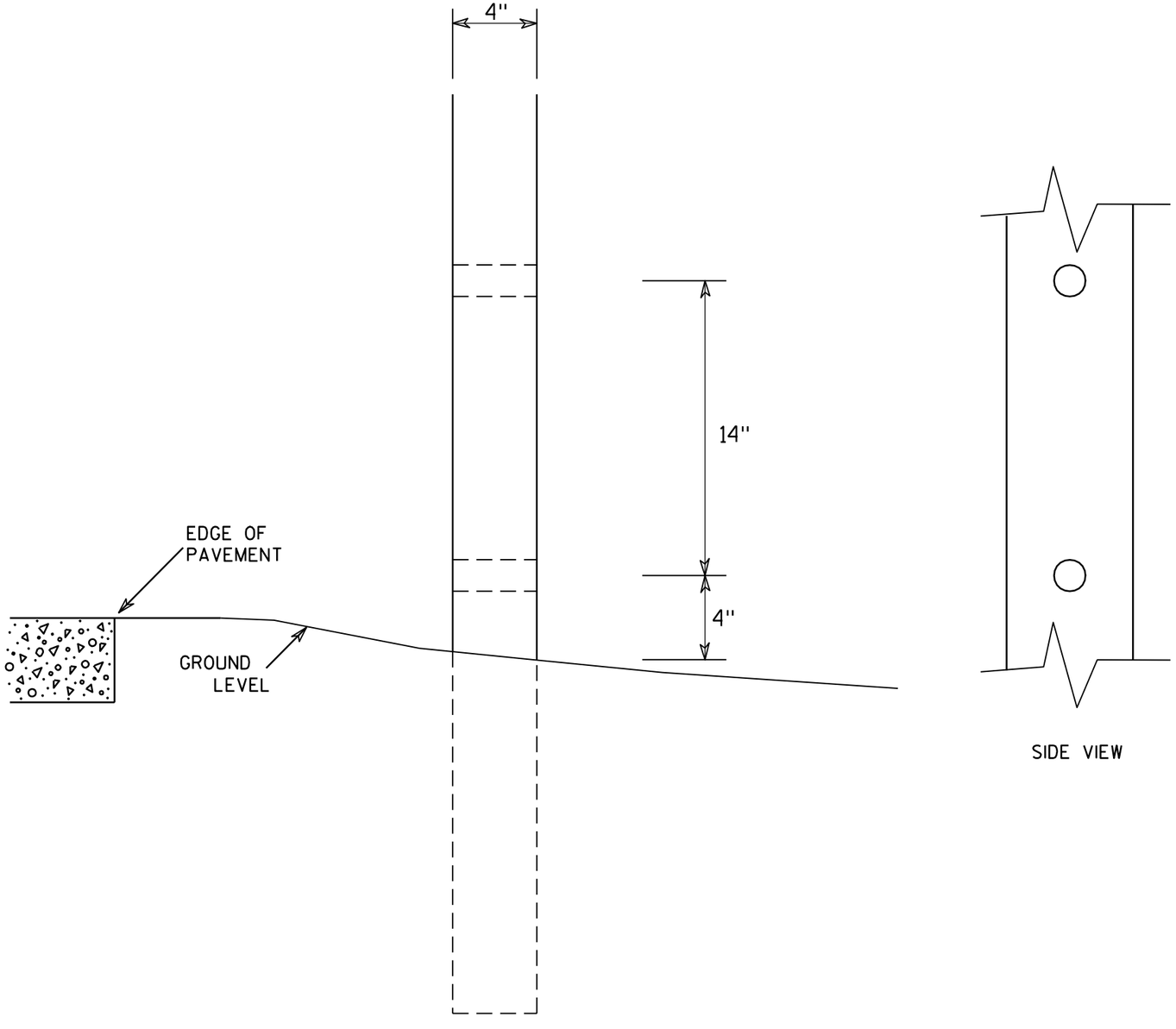
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

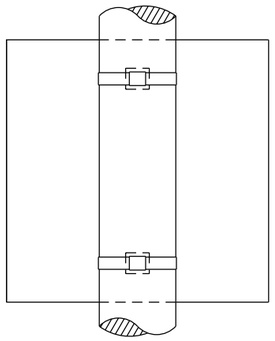
APPROVED Chester J Spang
for State Traffic Engineer

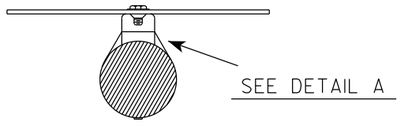
DATE 3/27/97 PLATE NO. A4-11.2

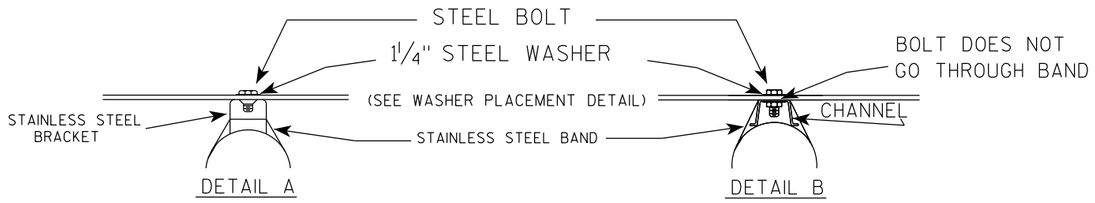
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 120	E

BANDING

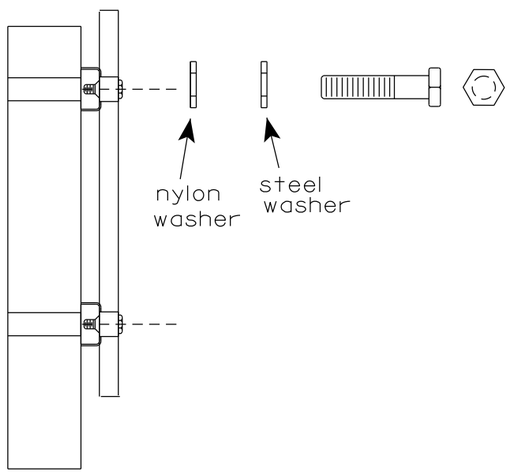
SINGLE SIGN







WASHER PLACEMENT

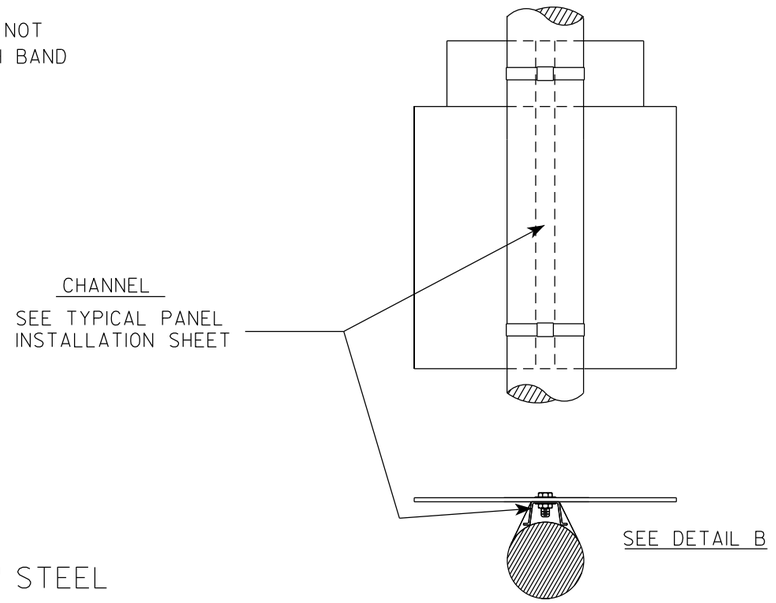


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

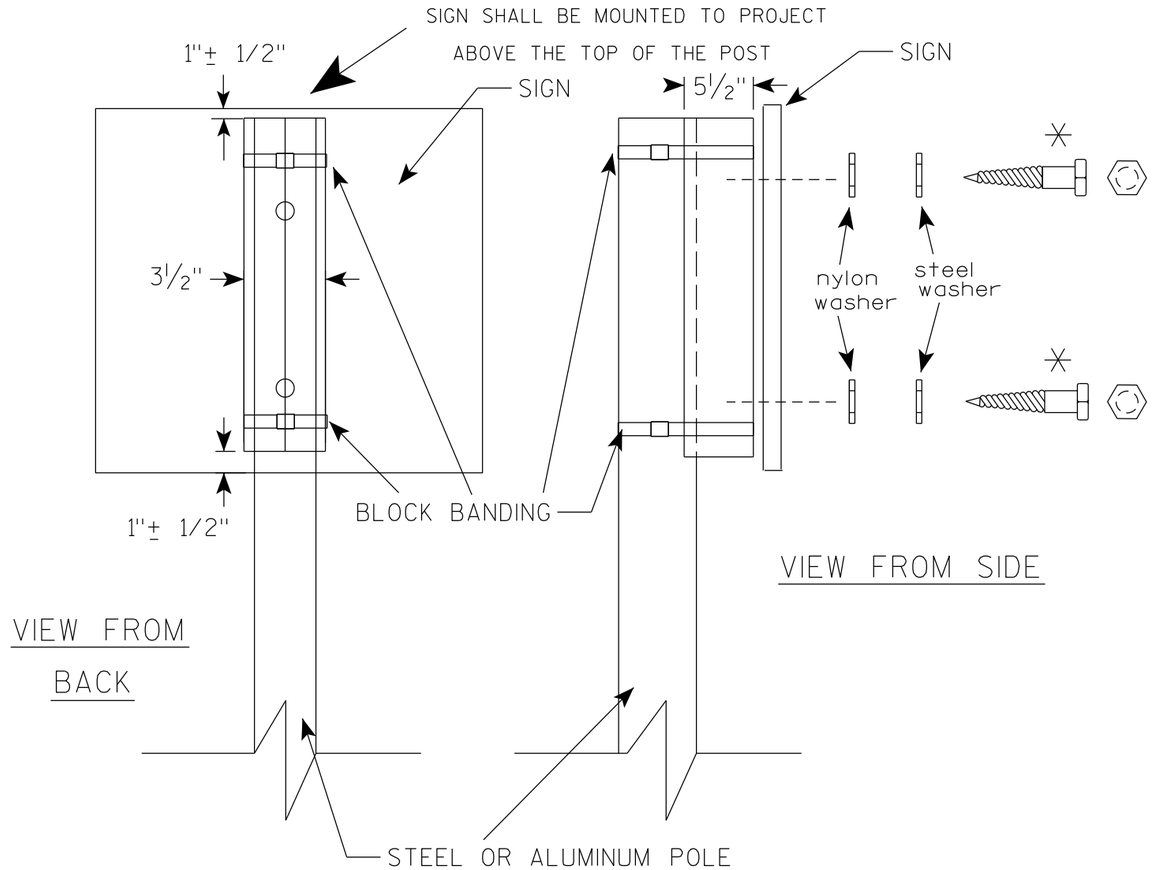
DATE 6/10/19 PLATE NO. A5-9.4

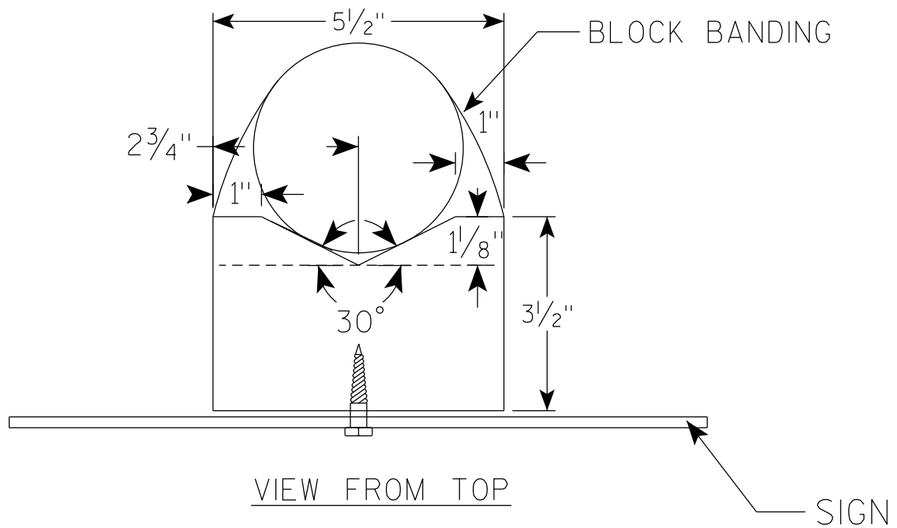
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 121	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

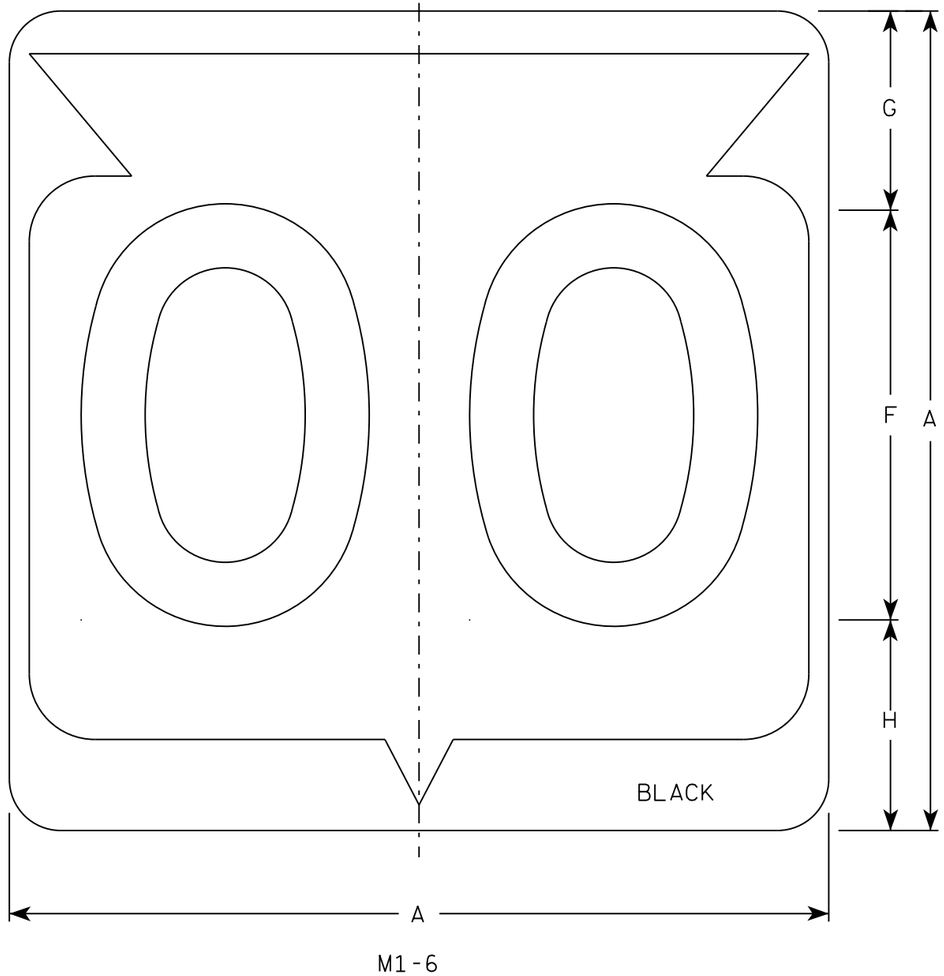
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO:

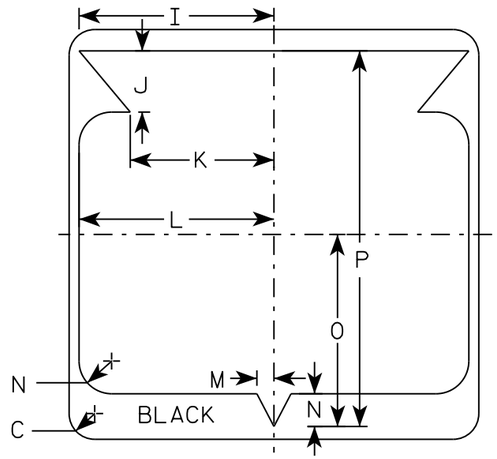
SHEET NO: 122 E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

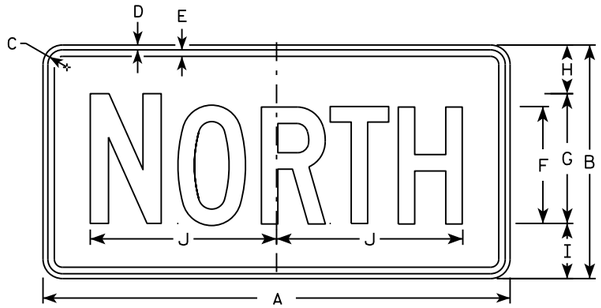
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

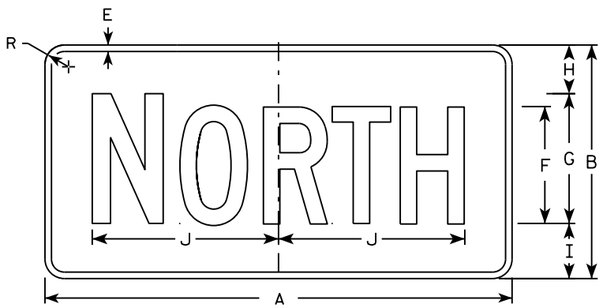
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 123 | E



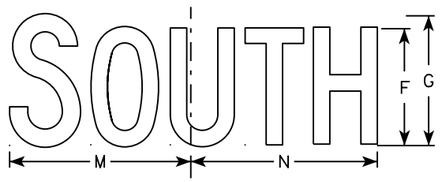
M3-1
MM3-1
MP3-1



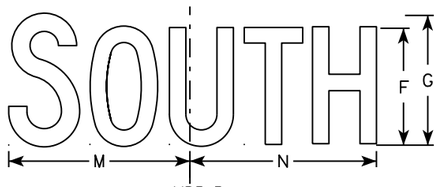
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

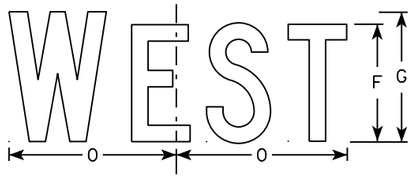
MB3-2
MK3-2
MN3-2



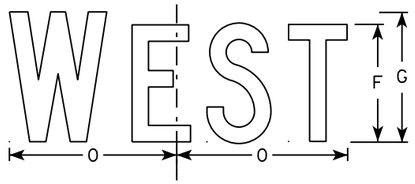
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

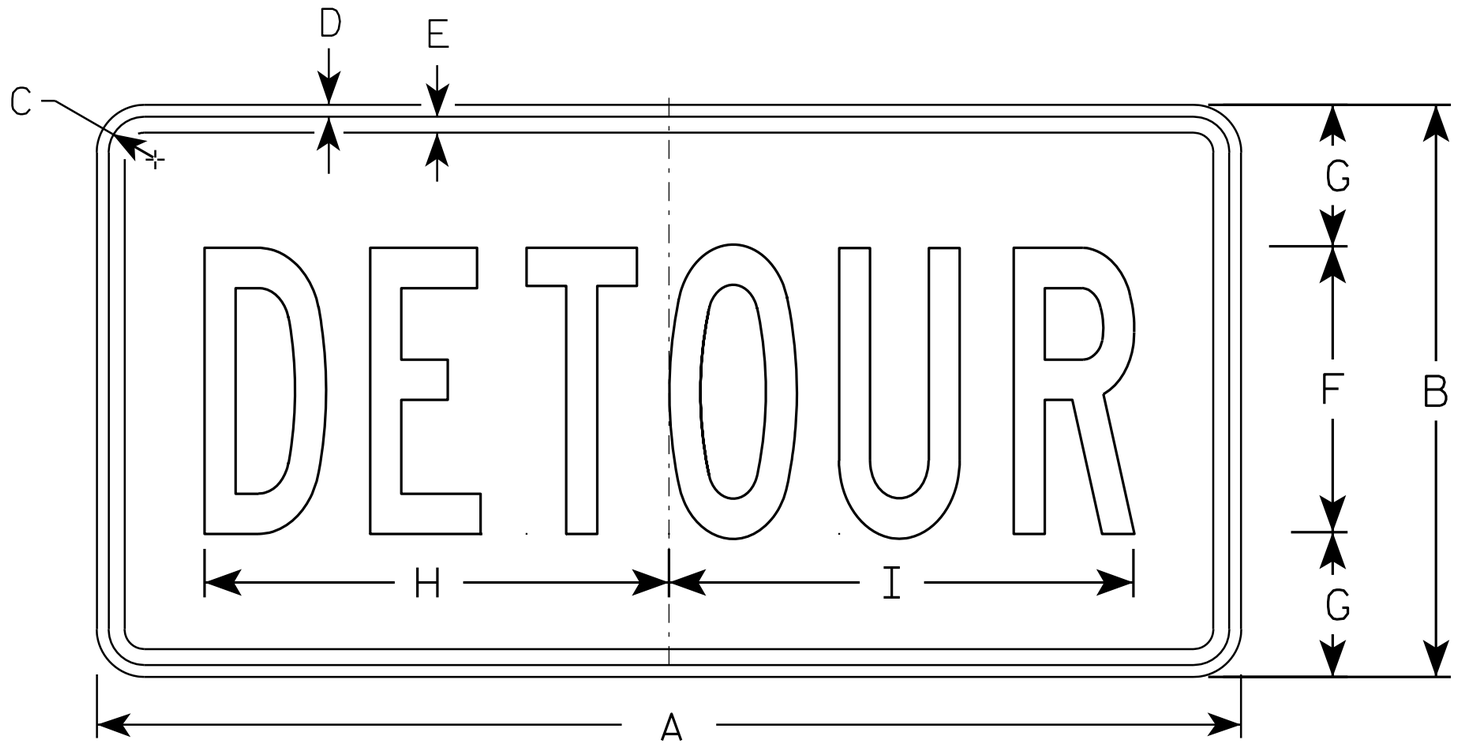
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

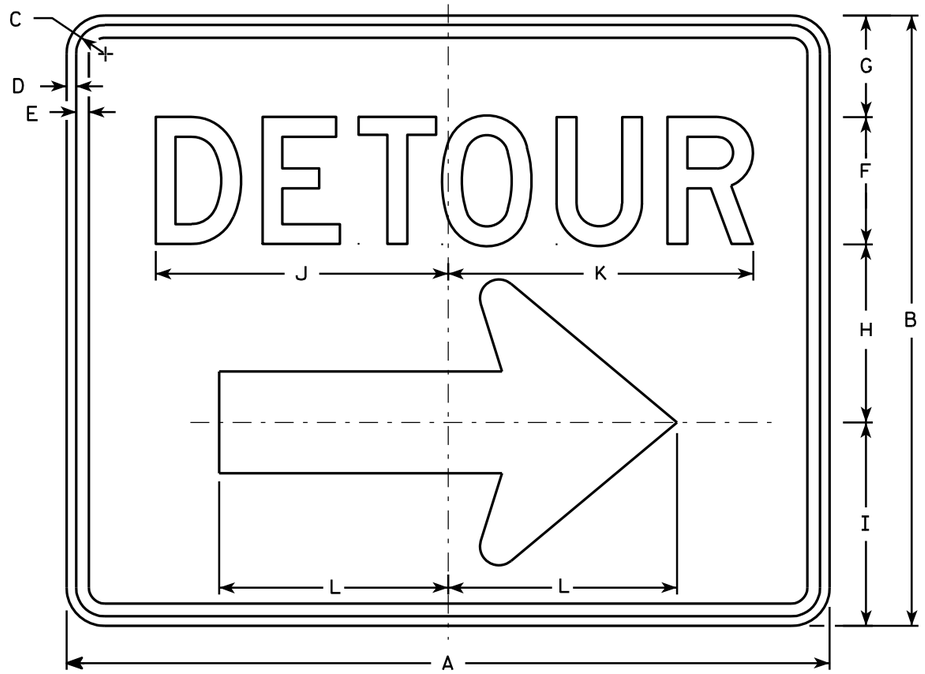
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

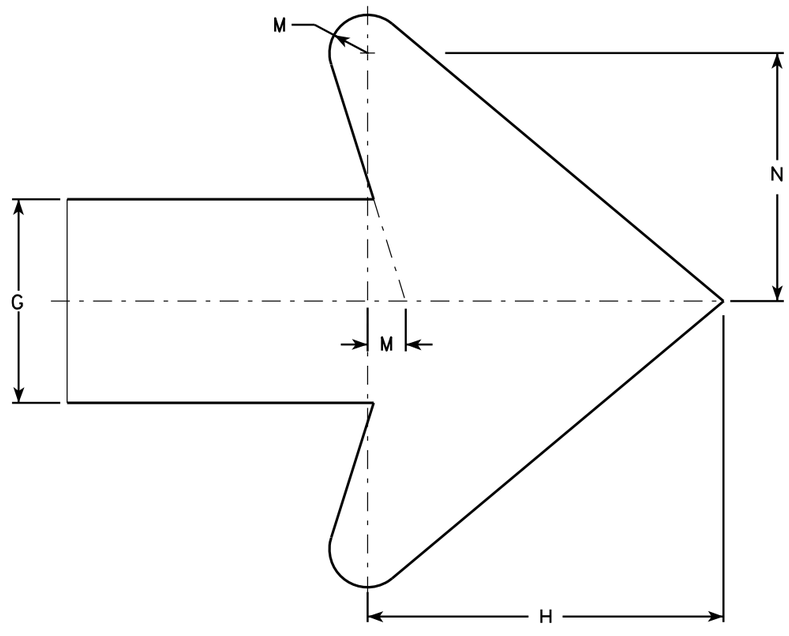
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 125	E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

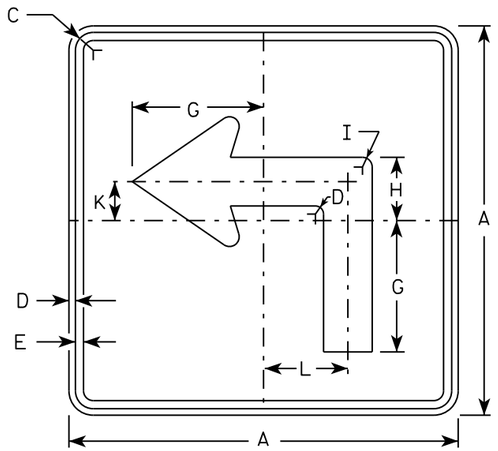
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

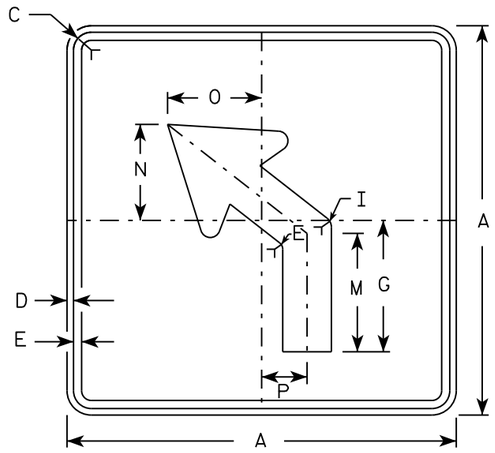
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

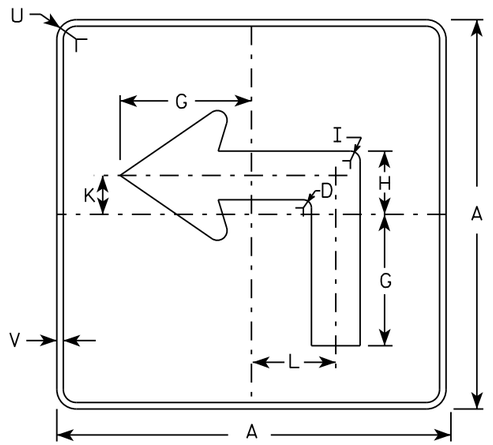
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 126 | E



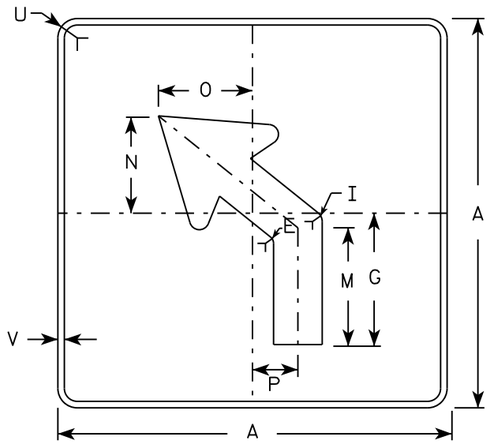
M5-1L
MM5-1L
MO5-1L
MP5-1L



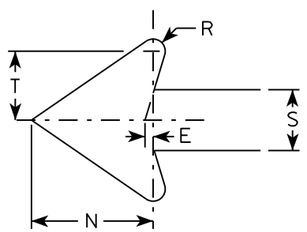
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

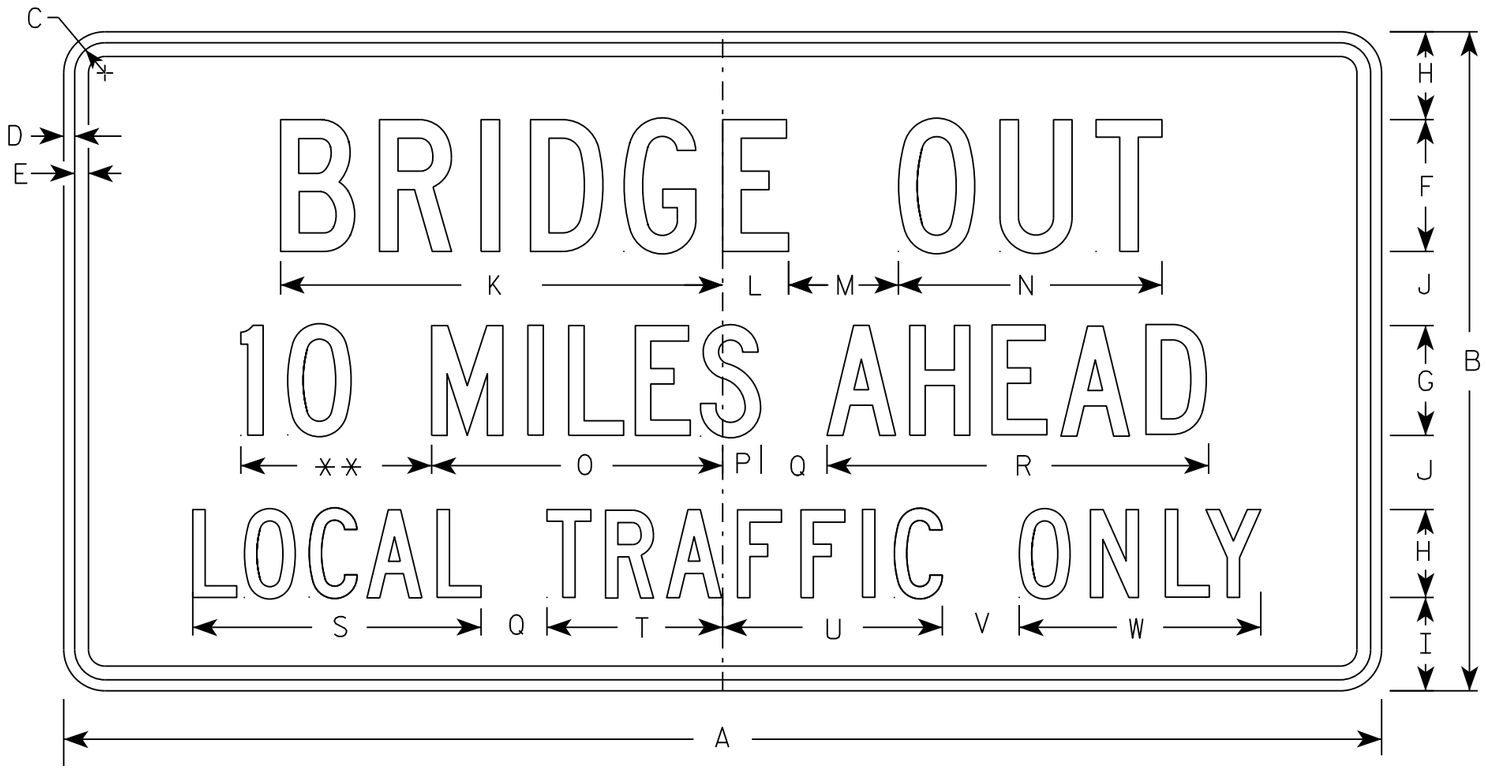
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M5-1.13

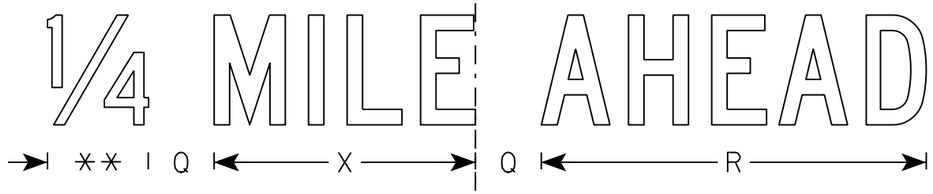
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



R11-3B

** See Note 5



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4	7 1/8			4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
3																											
4																											
5																											

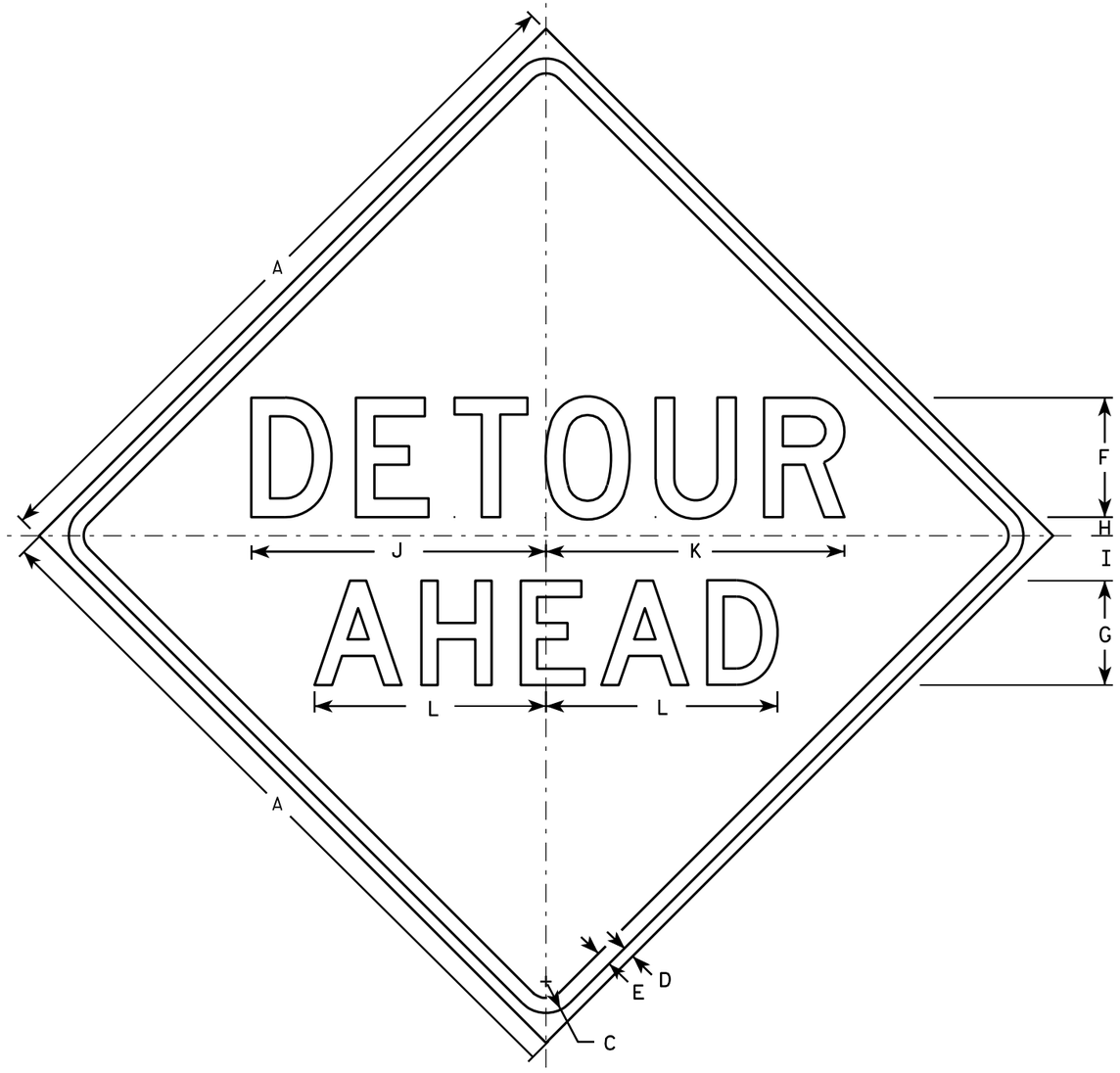
STANDARD SIGN
R11-3B

WISCONSIN DEPT OF TRANSPORTATION

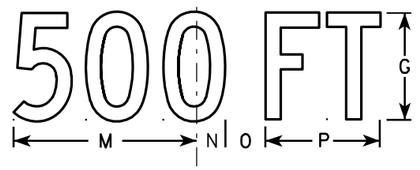
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. R11-3B.3

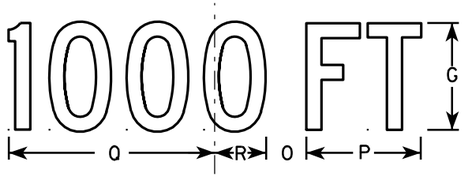
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 128 | E



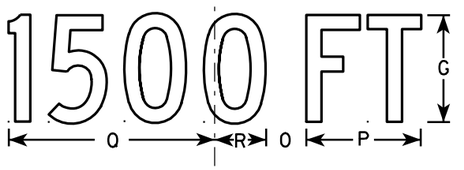
W20-2A



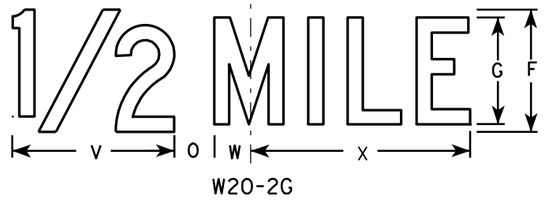
W20-2D



W20-2C



W20-2B



W20-2G

W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

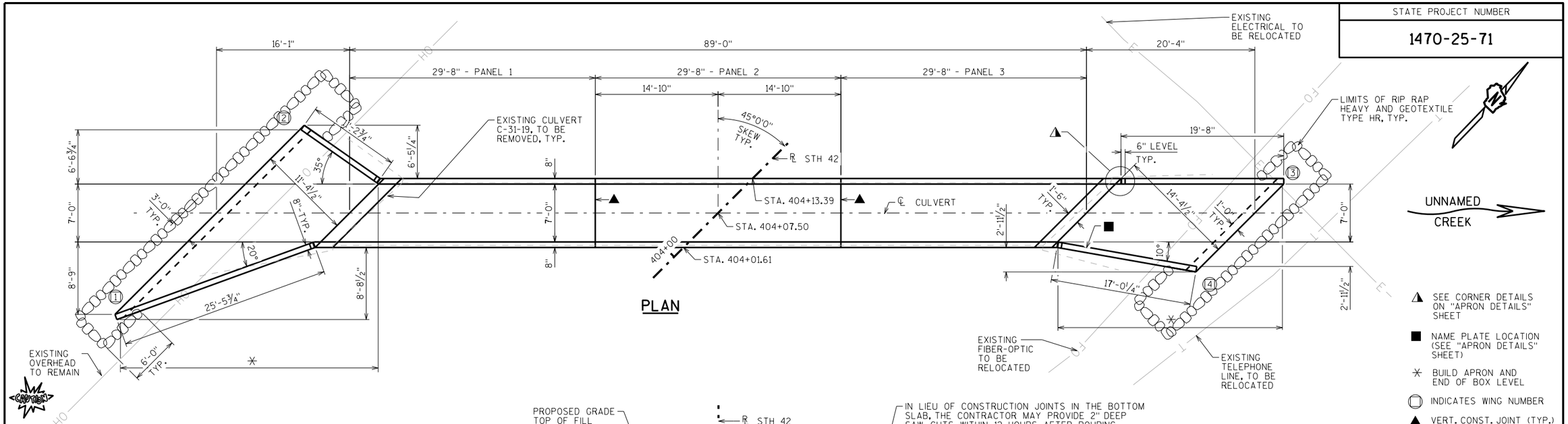
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

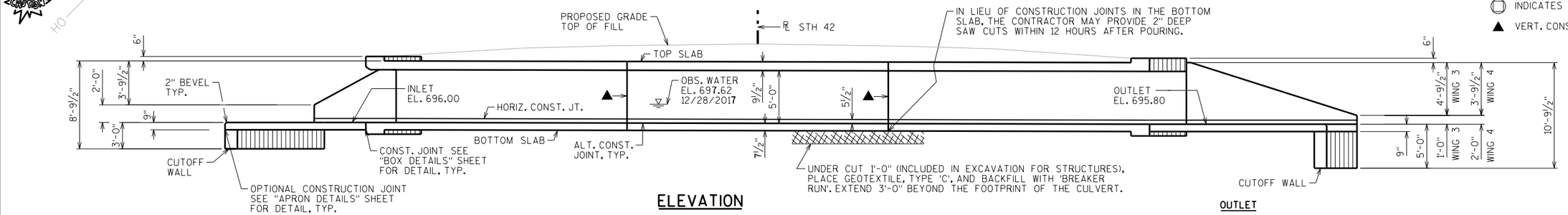
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 129	E

STATE PROJECT NUMBER

1470-25-71



PLAN



ELEVATION

INLET

OUTLET

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.05
OPERATING RATING FACTOR: RF = 1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255 (KIPS)

EARTHLOAD:
DESIGNED FOR 2.5 TO 3.5 FT. OF FILL

MATERIAL PROPERTIES:
CONCRETE MASONRY: ——— f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT:
GRADE 60 ——— fy = 60,000 P.S.I.

HYDRAULIC DATA

100 YEAR FREQUENCY
Q_{100} = 230 C.F.S.
VEL.$_{100}$ = 8.81 F.P.S.
HW.$_{100}$ = EL. 702.73
WATERWAY AREA = 35 SQ. FT.
DRAINAGE AREA = 0.53 SQ. MI.
ROADWAY OVERTOPPING = N/A
SCOUR CRITICAL CODE = 8

2 YEAR FREQUENCY
Q_2 = 40 C.F.S.
VEL.$_2$ = 3.2 F.P.S.
HW.$_2$ = EL. 698.7

TRAFFIC VOLUME

STH 42
ADT = 2,800 (2043)
R.D.S. = 60 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
203.0200	REMOVING OLD STRUCTURE STA. 404+07.50	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-31-56	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	1,057
311.0115	BREAKER RUN	CY	73
504.0100	CONCRETE MASONRY CULVERTS	CY	88
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	14,845
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,955
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	23
606.0300	RIPRAP HEAVY	CY	19
645.0105	GEOTEXTILE TYPE C	SY	246
645.0120	GEOTEXTILE TYPE HR	SY	53
	NON-BID ITEMS		
	FILLER	SIZE	¾"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-31-56" SHALL BE THE EXISTING GROUNDLINE.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING THE APRON WING WALLS.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS (SEE "APRON DETAILS" SHEET FOR DETAILS).

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE 18" MIN. WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO 6" MIN. BELOW THE TOP OF BOTTOM SLAB.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISC. DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON
4. APRON DETAILS
5. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS:
MAXWELL KULICK (608) 261-6108
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 2/10/20
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-31-56

STH 42 OVER UNNAMED CREEK

COUNTY: KEWAUNEE | TOWN: CARLTON

DESIGN SPEC.: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY MJK/TBB | DESIGNED CK'D. BAF | DRAWN BY MJK | PLANS CK'D. BAF

LAYOUT

SHEET 1 OF 5

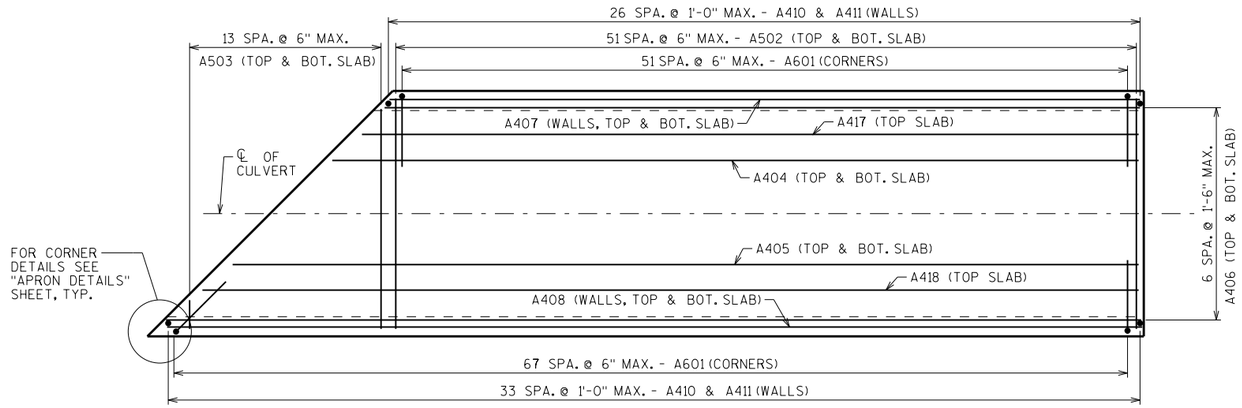
130

I.D. 1470-25-00A DATE: NOV. 2019

SCALE = 6.00

STATE PROJECT NUMBER

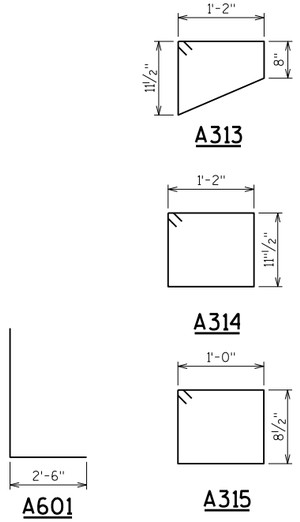
1470-25-71



PLAN - PANELS 1 & 3

EXTERIOR PANELS
HEADER AND APRON NOT SHOWN

NOTE: ROTATE/FLARE A601 BARS AS NECESSARY TO FIT AT CORNERS



BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

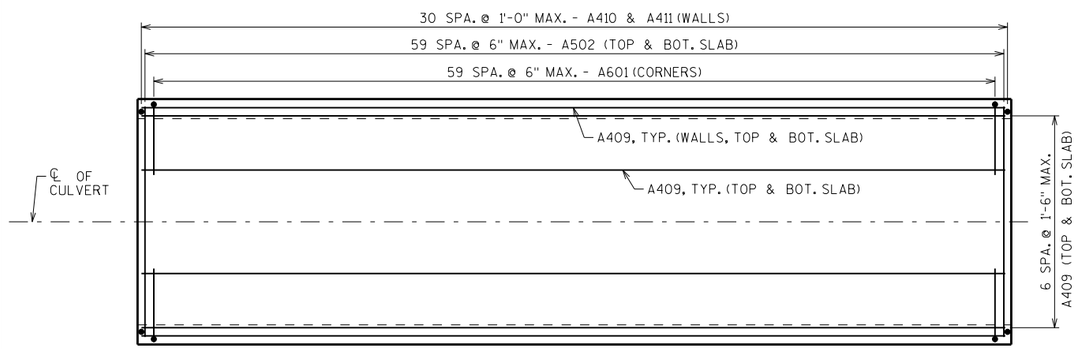
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A601		720	6'-5"	X		CORNERS - ALL PANELS
A502		328	7'-11"			TOP & BOT. SLAB - TRANS. - ALL PANELS
A503		56	4'-3"		⚠	TOP & BOT. SLAB - TRANS. - PANELS 1 & 3
A404		4	27'-8"			TOP & BOT. SLAB - LONGIT. - PANELS 1 & 3
A405		4	30'-9"			TOP & BOT. SLAB - LONGIT. - PANELS 1 & 3
A406		28	29'-3"		⚠	TOP & BOT. SLAB - LONGIT. - PANELS 1 & 3
A407		16	25'-4"			TOP & BOT. SLAB & WALL - LONGIT. - PANELS 1 & 3
A408		16	32'-11"			TOP & BOT. SLAB & WALL - LONGIT. - PANELS 1 & 3
A409		36	29'-4"			TOP & BOT. SLAB & WALL - LONGIT. - PANEL 2
A410		184	4'-10"			WALL - VERT. - ALL PANELS
A411		184	2'-0"			WALL - VERT. - DOWELS - ALL PANELS
A812		24	11'-3"			TOP & BOT. HEADERS - HORIZ.
A313		16	4'-5"	X		TOP INLET HEADER - STIRRUPS
A314		16	4'-8"	X		TOP OUTLET HEADER - STIRRUPS
A315		32	3'-10"	X		BOT. HEADERS - STIRRUPS
A516		56	4'-0"			VERT. CONST. JOINT
A417		2	26'-6"			TOP SLAP - LONGIT. - PANELS 1 & 3
A418		2	32'-0"			TOP SLAP - LONGIT. - PANELS 1 & 3
A519		18	4'-0"			BOT. SLAB. - INLET AND OUTLET APRON CONN.

BAR SERIES TABLE

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

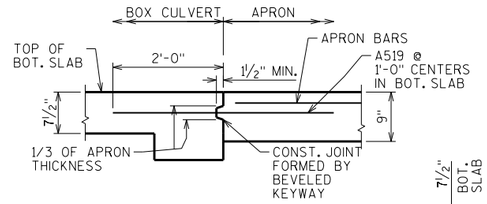
BAR MARK	NO. REQ'D.	LENGTH
A503	4 SERIES OF 14	1'-0" TO 7'-6"
A406	4 SERIES OF 7	25'-6" TO 32'-11"

BUNDLE AND TAG EACH SERIES SEPARATELY.



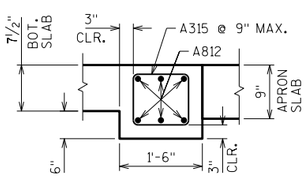
PLAN - PANEL 2

INTERIOR PANEL

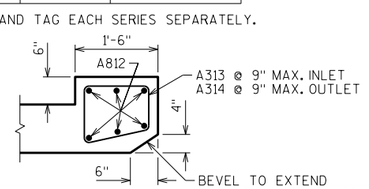


APRON CONNECTION DETAIL

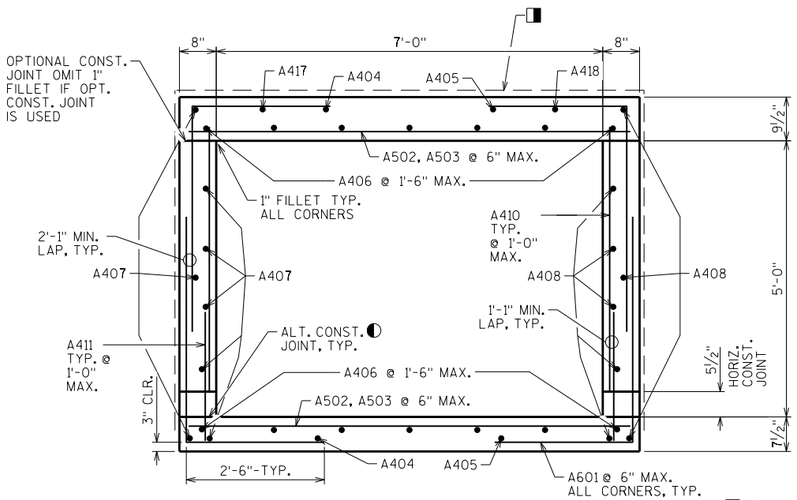
2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



SECTION THRU BOTTOM SLAB HEADER



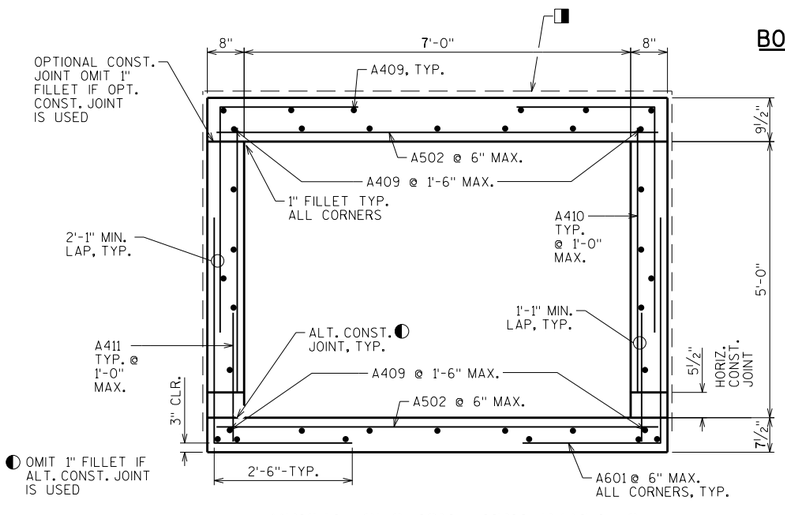
SECTION THRU TOP SLAB HEADER



TYPICAL SECTION THRU PANELS 1 & 3

EXTERIOR PANELS

◨ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING (R.M.W.) UP WALLS AND ACROSS TOP SLAB AT VERTICAL CONST. JOINTS. EXTEND R.M.W. 6" MIN. BELOW THE TOP OF BOTTOM SLAB.

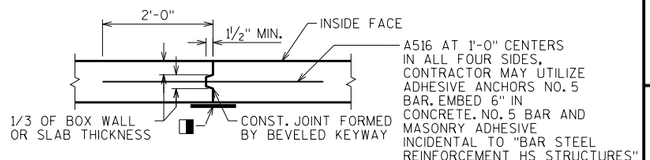


◐ OMIT 1" FILLET IF ALT. CONST. JOINT IS USED

TYPICAL SECTION THRU PANEL 2

INTERIOR PANEL

ALL LONGITUDINAL BARS NOT LABELED ARE A409



VERTICAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-31-56

DRAWN BY MJK | PLANS CK'D. BAF

BOX DETAILS

SHEET 2

131

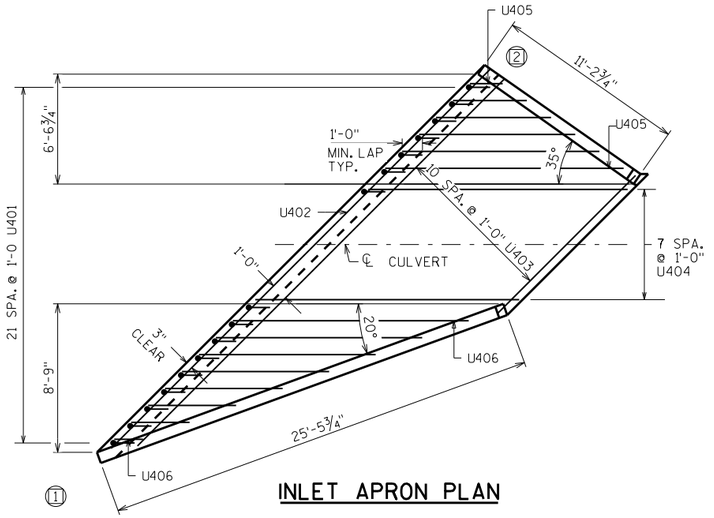
SCALE = 1.00

8

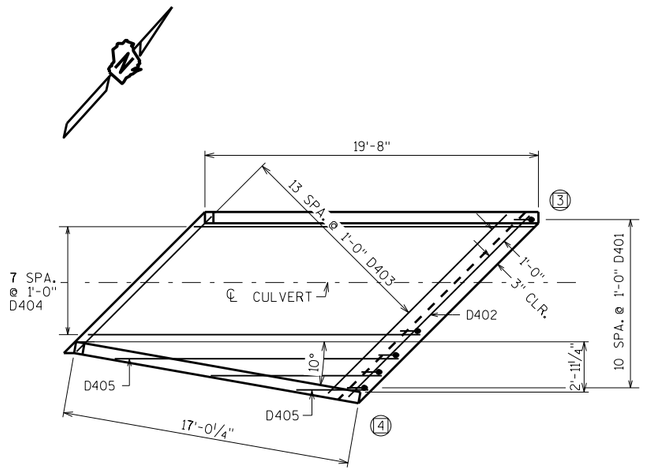
8

STATE PROJECT NUMBER

1470-25-71

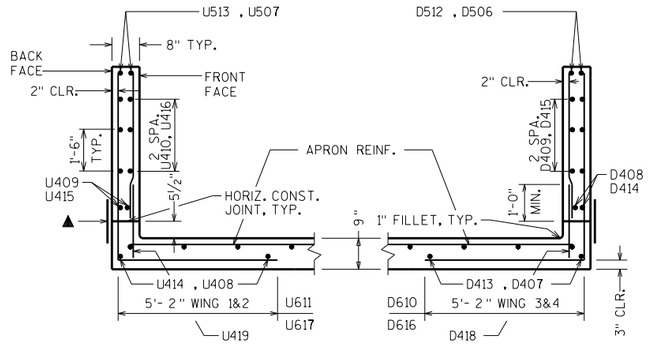


INLET APRON PLAN



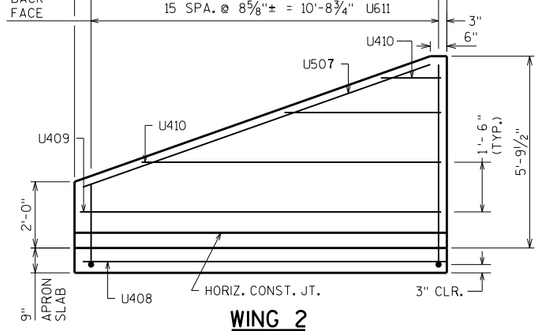
OUTLET APRON PLAN

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).

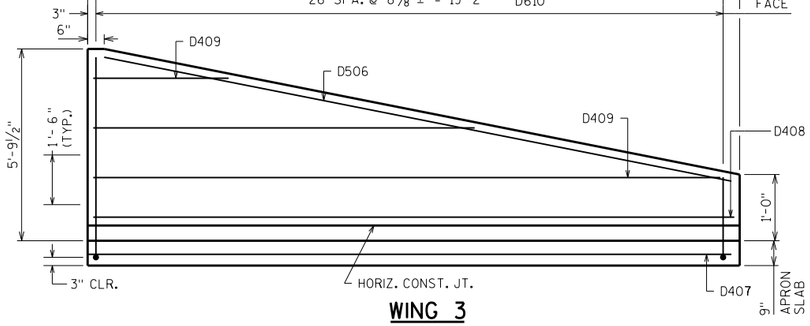


SECTION THRU WINGS

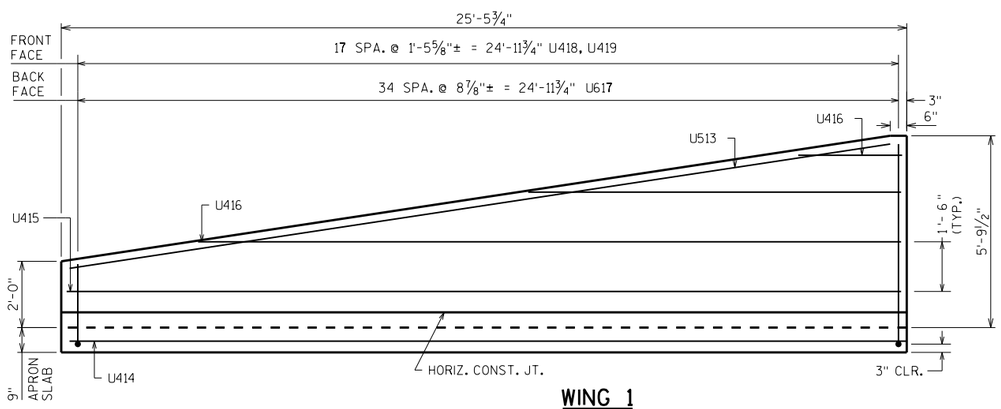
AT RIGHT ANGLES TO WING WALLS



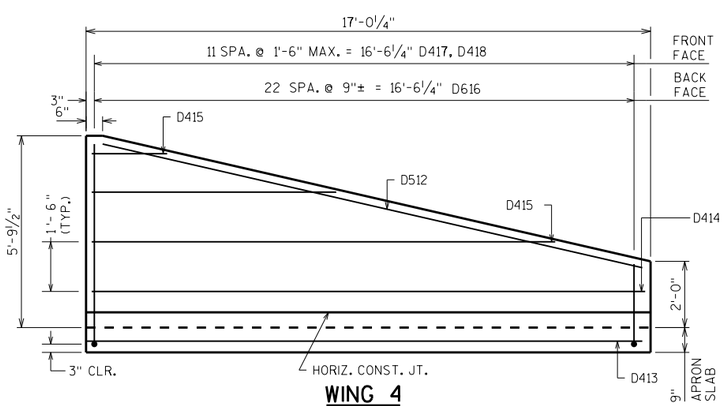
WING 2



WING 3



WING 1



WING 4

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-31-56

DRAWN BY MJK | PLANS CK'D. BAF

APRON

SHEET 3

132

SCALE = 4.00

8

8

STATE PROJECT NUMBER

1470-25-71

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.

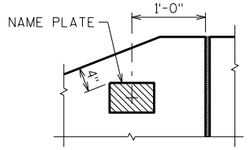
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		22	3'-6"	X		INLET APRON AND CUTOFF WALL
U402		3	32'-0"			INLET APRON AND CUTOFF WALL
U403		11	21'-2"		⚠	INLET APRON
U404		8	15'-6"			INLET APRON
U405		6	8'-1"		⚠	INLET APRON
U406		8	8'-7"		⚠	INLET APRON
U507	X	2	11'-5"			WING 2 - HORIZONTAL - BOTH FACES
U408		2	10'-8"			WING 2 - HORIZONTAL - APRON BOT. SLAB
U409	X	2	10'-8"			WING 2 - HORIZONTAL - BOTH FACES
U410	X	6	5'-7"		⚠	WING 2 - HORIZONTAL - BOTH FACES
U611	X	16	9'-3"	X	⚠	WING 2 - VERTICAL - BACK FACE
U412	X	9	3'-3"		⚠	WING 2 - VERTICAL - FRONT FACE
U513	X	2	25'-3"			WING 1 - HORIZONTAL - BOTH FACES
U414		2	24'-11"			WING 1 - HORIZONTAL - APRON BOT. SLAB
U415	X	2	24'-11"			WING 1 - HORIZONTAL - BOTH FACES
U416	X	6	12'-10"		⚠	WING 1 - HORIZONTAL - BOTH FACES
U617	X	35	9'-3"	X	⚠	WING 1 - VERTICAL - BACK FACE
U418	X	18	3'-3"		⚠	WING 1 - VERTICAL - FRONT FACE
U419	X	27	2'-0"			WINGS 1 AND 2 - DOWELS - FRONT FACE
D401		11	5'-6"	X		OUTLET APRON AND CUTOFF WALL
D402		5	14'-10"			OUTLET APRON AND CUTOFF WALL
D403		14	13'-2"		⚠	OUTLET APRON
D404		8	19'-8"			OUTLET APRON
D405		3	9'-6"		⚠	OUTLET APRON
D506	X	2	19'-9"			WING 3 - HORIZONTAL - BOTH FACES
D407		2	19'-2"			WING 3 - HORIZONTAL - APRON BOT. SLAB
D408	X	2	19'-2"			WING 3 - HORIZONTAL - BOTH FACES
D409	X	6	7'-10"		⚠	WING 3 - HORIZONTAL - BOTH FACES
D610	X	27	8'-9"	X	⚠	WING 3 - VERTICAL - BACK FACE
D411	X	14	2'-10"		⚠	WING 3 - VERTICAL - FRONT FACE
D512	X	2	16'-11"			WING 4 - HORIZONTAL - BOTH FACES
D413		2	16'-6"			WING 4 - HORIZONTAL -APRON BOT. SLAB
D414	X	2	16'-6"			WING 4 - HORIZONTAL - BOTH FACES
D415	X	6	8'-7"		⚠	WING 4 - HORIZONTAL - BOTH FACES
D616	X	23	9'-3"	X	⚠	WING 4 - VERTICAL - BACK FACE
D417	X	12	3'-4"		⚠	WING 4 - VERTICAL - FRONT FACE
D418	X	26	2'-0"			WINGS 3 AND 4 - DOWELS - FRONT FACE

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

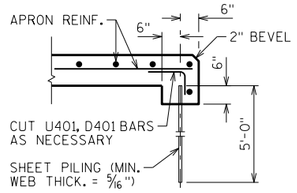
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U403	1 SERIES OF 11	11'-3" TO 30'-10"
U405	1 SERIES OF 6	2'-0" TO 14'-2"
U406	1 SERIES OF 8	2'-5" TO 14'-8"
U410	2 SERIES OF 3	1'-4" TO 9'-10"
U611	1 SERIES OF 16	7'-4" TO 11'-1"
U412	1 SERIES OF 9	1'-4" TO 5'-1"
U416	2 SERIES OF 3	2'-11" TO 22'-8"
U617	1 SERIES OF 35	7'-4" TO 11'-1"
U418	1 SERIES OF 18	1'-4" TO 5'-1"
D403	1 SERIES OF 14	11'-3" TO 15'-1"
D405	1 SERIES OF 3	2'-10" TO 16'-2"
D409	2 SERIES OF 3	1'-10" TO 13'-10"
D610	1 SERIES OF 27	6'-5" TO 11'-1"
D411	1 SERIES OF 14	0'-5" TO 5'-1"
D415	2 SERIES OF 3	2'-0" TO 15'-1"
D616	1 SERIES OF 23	7'-4" TO 11'-1"
D417	1 SERIES OF 12	1'-5" TO 5'-1"

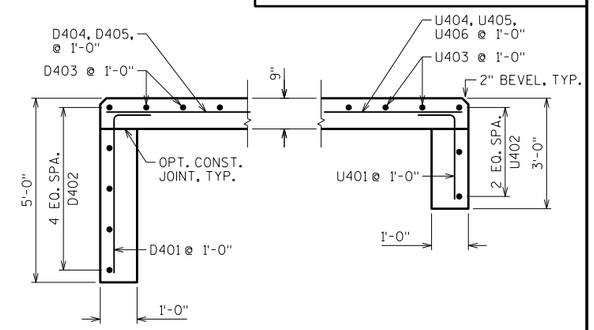


NAME PLATE LOCATION
WING 4



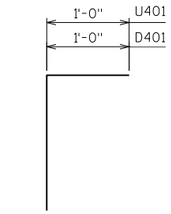
ALTERNATE CUT-OFF WALLS

THE ABOVE ALTERNATIVE MAY BE USED IN LIEU OF CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.

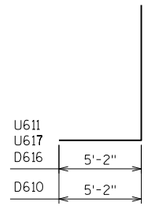


CUT-OFF WALLS

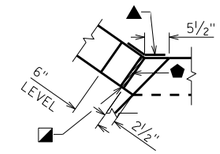
LOOKING SOUTH



U401, D401



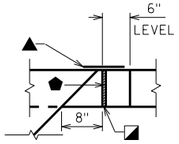
U611, U617, D610, D616



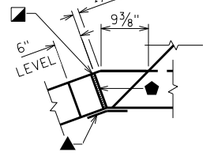
CORNER 2

⬟ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL TYPICAL

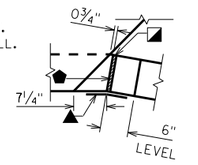


CORNER 3

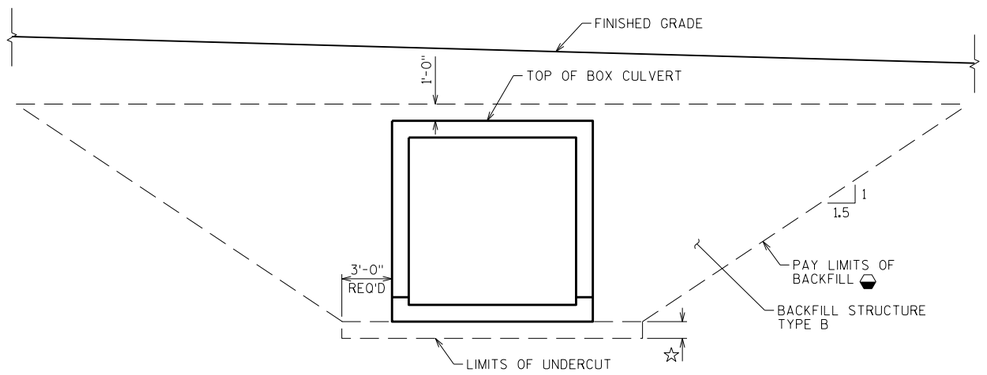


CORNER 1

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.



CORNER 4



TYPICAL SECTION
THRU BOX CULVERT

⬬ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

☆ UNDERCUT 1'-0". EXCAVATION FOR UNDERCUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM, THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-31-56

DRAWN BY MJK | PLANS CK'D. BAF

APRON DETAILS

SHEET 4

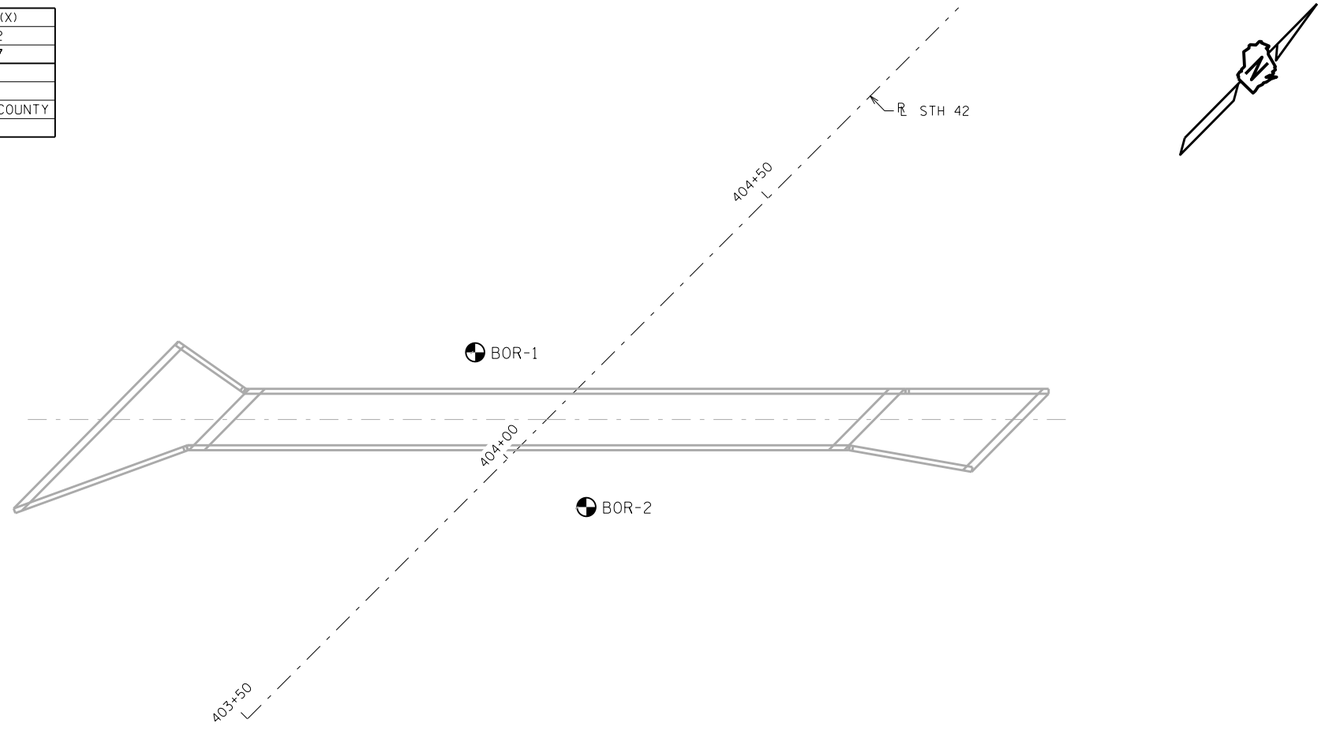
133

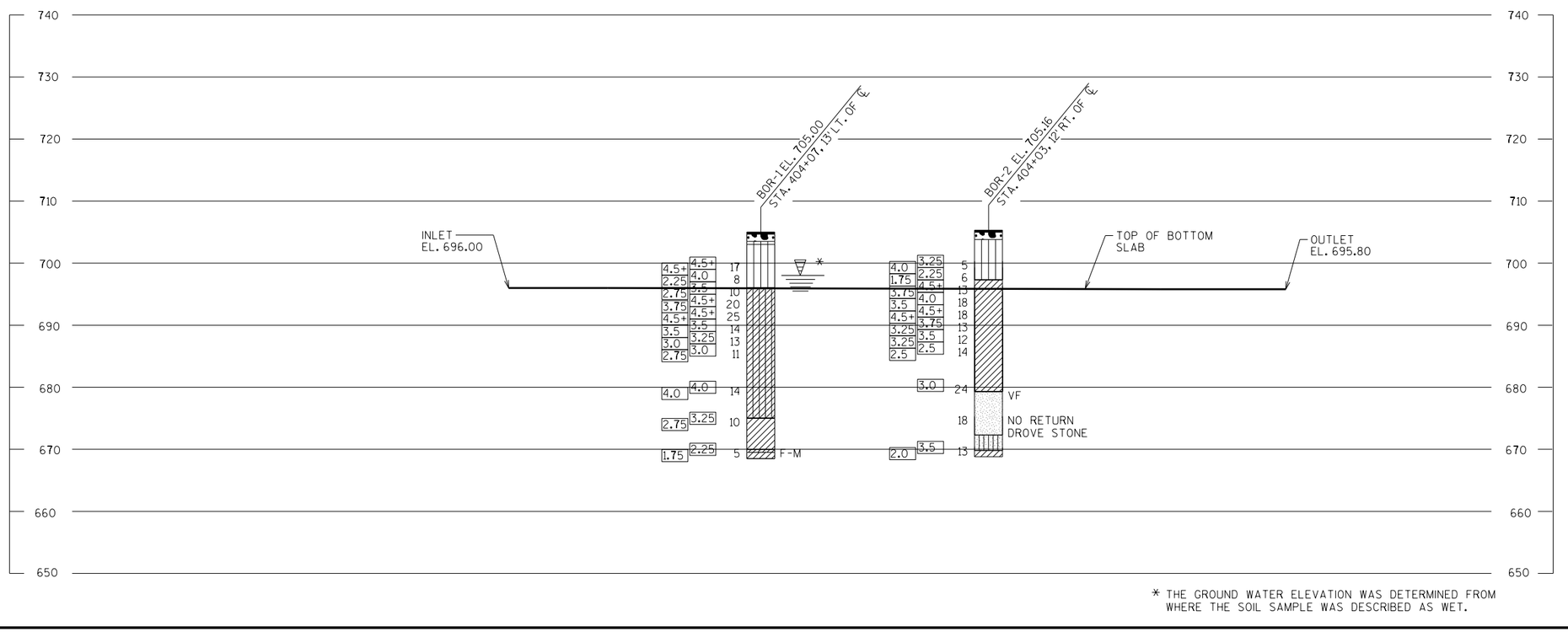
SCALE = 4.00

8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	3/20/2019	417033	264052
2	3/19/2019	417028	264077
BORINGS COMPLETED BY: WISDOT			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) KEWAUNEE COUNTY			
COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT			





* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

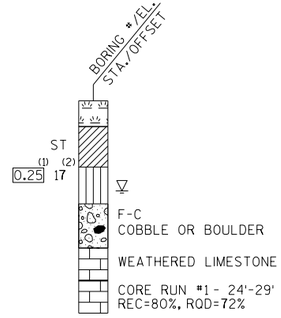
STATE PROJECT NUMBER

1470-25-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-31-56

DRAWN BY MJK | PLANS CK'D. BAF

SUBSURFACE EXPLORATION

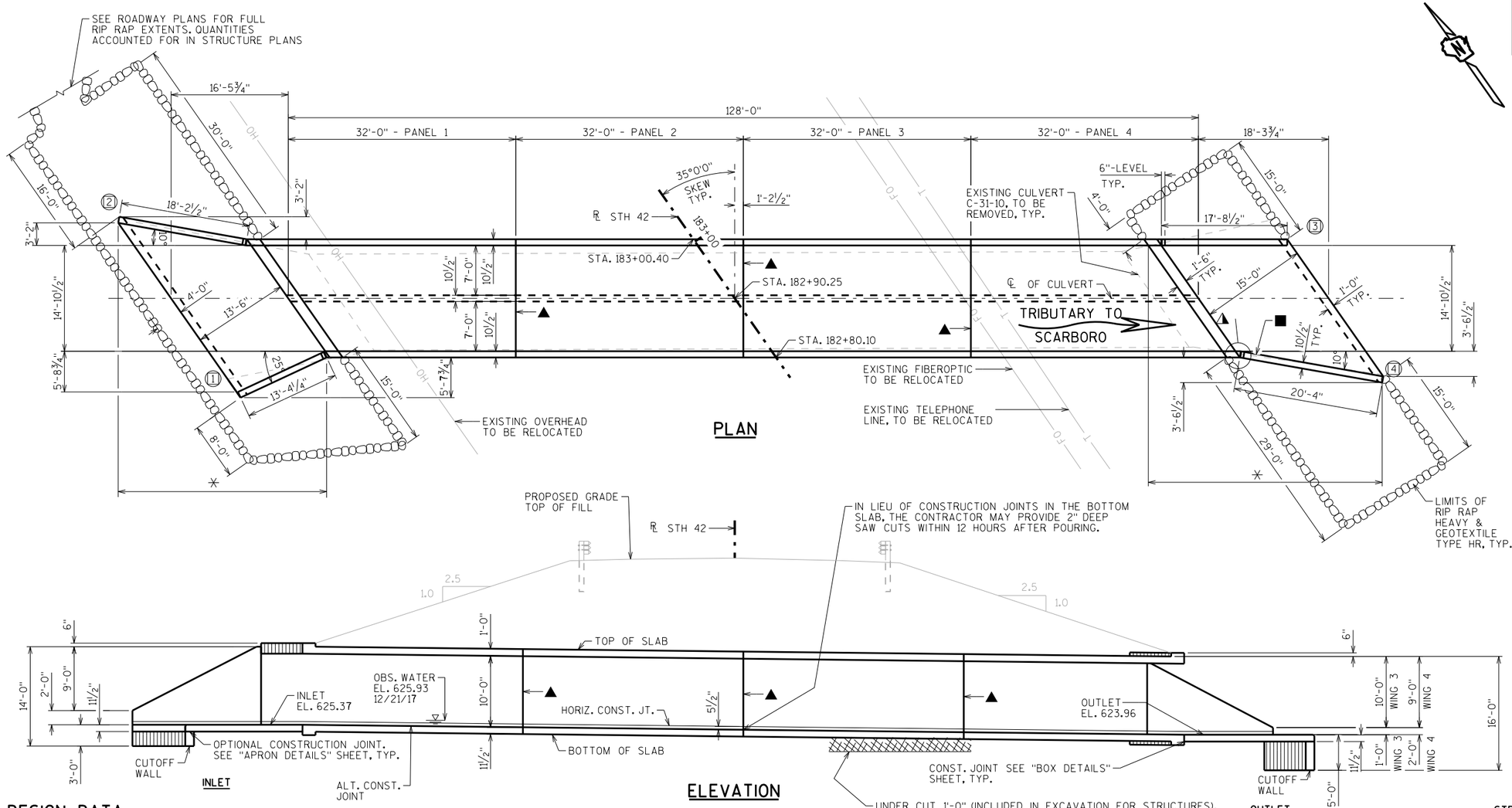
SHEET 5

134

8

8

SCALE = 10.0



DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.05
OPERATING RATING FACTOR: RF = 1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255(KIPS)

EARTHLOAD:

DESIGNED FOR 12 TO 13 FT. OF FILL.

MATERIAL PROPERTIES:

CONCRETE MASONRY: ——— f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT: ——— fy = 60,000 P.S.I.

HYDRAULIC DATA

100 YEAR FREQUENCY

Q_{100} = 400 C.F.S.
$VEL._{100}$ = 9.72 F.P.S.
$HW._{100}$ = EL. 630.35
WATERWAY AREA = 84 SQ. FT.
DRAINAGE AREA = 0.89 SQ. MI.
ROADWAY OVERTOPPING = N/A
SCOUR CRITICAL CODE = 8

2 YEAR FREQUENCY

Q_2 = 70 C.F.S.
$VEL._2$ = 5.44 F.P.S.
$HW._2$ = EL. 628.50

TRAFFIC VOLUME

STH 42

ADT = 2,800 (2043)
R.D.S. = 60 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 182+90.25	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-31-57	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	3,614
311.0115	BREAKER RUN	CY	141
504.0100	CONCRETE MASONRY CULVERTS	CY	327
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	39,205
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	4,995
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	39
606.0300	RIPRAP HEAVY	CY	127
645.0105	GEOTEXTILE TYPE C	SY	458
645.0120	GEOTEXTILE TYPE HR	SY	262
	NON-BID ITEMS		
	FILLER	SIZE	¾"

△ SEE CORNER DETAILS ON "APRON DETAILS" SHEET
■ NAME PLATE LOCATION (SEE "APRON DETAILS" SHEET)
✳ BUILD APRON AND END OF BOX LEVEL
⬡ INDICATES WING NUMBER
▲ VERT. CONST. JOINT (TYP.)

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON
4. APRON DETAILS
5. SUBSURFACE EXPLORATION

STATE PROJECT NUMBER

1470-25-71

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-31-57" SHALL BE THE EXISTING GROUNDLINE.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING THE APRON WING WALLS.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS (SEE "APRON DETAILS" SHEET).

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE 18" MIN. WIDE SHEET OF "RUBBERIZED MEMBRANE WATER-PROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO 6" MIN. BELOW THE TOP OF BOTTOM SLAB.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISC. DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

STRUCTURE DESIGN CONTACTS:

MAXWELL KULICK (608) 261-6108
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher AMB — 2/10/20
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-31-57

STH 42 OVER TRIB. TO SCARBORO

COUNTY	TOWN
KEWAUNEE	CARLTON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY MJK/TBB	DESIGNED CK'D. BAF	DRAWN BY MJK	PLANS CK'D. BAF

LAYOUT

SHEET 1 OF 5

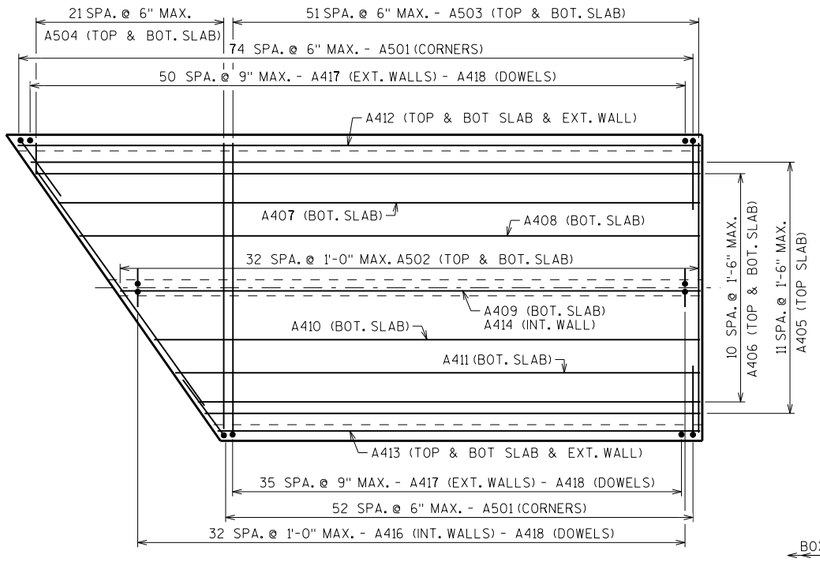
135

I.D. 1470-25-00D DATE: NOV. 2019

SCALE = 8.00

STATE PROJECT NUMBER

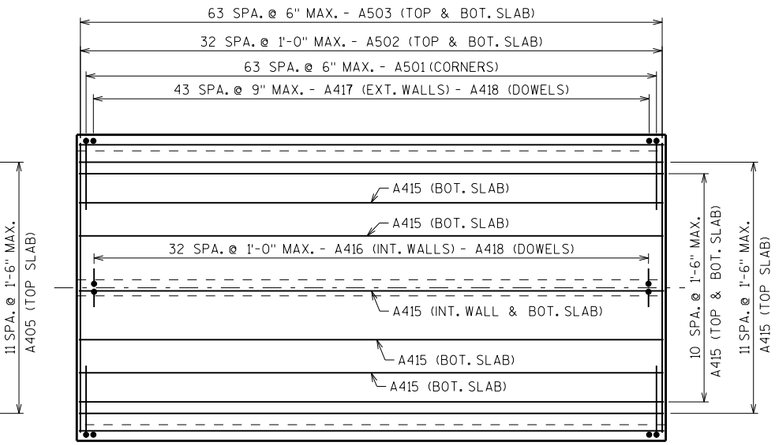
1470-25-71



NOTE: ROTATE/FLARE A501 AND A502 BARS AS NECESSARY TO FIT AT CORNERS

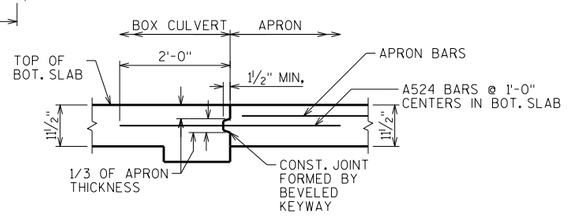
PLAN - PANELS 1 & 4

EXTERIOR PANELS
HEADER AND APRON NOT SHOWN



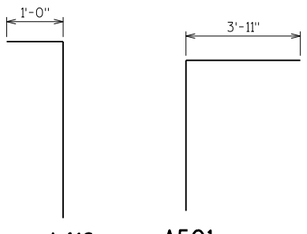
PLAN - PANELS 2 & 3

INTERIOR PANELS



APRON CONNECTION DETAIL

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.

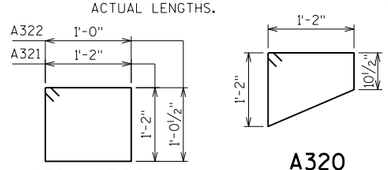


BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		1,024	10'-6"	X		CORNERS - ALL PANELS
A502		264	15'-9"			TOP & BOT. SLAB - TRANS. - ALL PANELS
A503		464	16'-3"			TOP & BOT. SLAB - TRANS. - ALL PANELS
A504		88	8'-6"		⚠	TOP & BOT. SLAB - TRANS. - PANELS 1 & 4
A405		24	31'-7"		⚠	TOP SLAB - LONGIT. - PANELS 1 & 4
A406		44	31'-7"		⚠	TOP & BOT. SLAB - LONGIT. - PANELS 1 & 4
A407		2	34'-8"			BOT. SLAB - LONGIT. - PANELS 1 & 4
A408		2	33'-4"			BOT. SLAB - LONGIT. - PANELS 1 & 4
A409		4	31'-5"			BOT. SLAB - LONGIT. - PANELS 1 & 4
A410		2	29'-11"			BOT. SLAB - LONGIT. - PANELS 1 & 4
A411		2	28'-7"			BOT. SLAB - LONGIT. - PANELS 1 & 4
A412		24	36'-11"			TOP & BOT. SLAB & EXT. WALL - LONGIT. - PANELS 1 & 4
A413		24	25'-11"			TOP & BOT. SLAB & EXT. WALL - LONGIT. - PANELS 1 & 4
A414		24	31'-5"			INT. WALL - LONGIT. - PANELS 1 & 4
A415		152	31'-8"			TOP & BOT. SLAB & WALLS - LONGIT. - PANELS 2 & 3
A416		264	11'-0"	X		INT. WALLS - VERT. - ALL PANELS
A417		350	10'-3"			EXT. WALLS - VERT. - ALL PANELS
A418		614	2'-3"			WALLS - VERT. - DOWELS - ALL PANELS
A719		24	19'-10"			TOP & BOT. HEADERS - HORIZ.
A320		28	4'-10"	X		TOP INLET HEADER - STIRRUPS
A321		28	5'-1"	X		TOP OUTLET HEADER - STIRRUPS
A322		56	4'-6"	X		BOT. HEADERS - STIRRUPS
A523		192	4'-0"			VERT. CONST. JOINT
A524		34	4'-0"			BOT. SLAB - INLET AND OUTLET APRON CONNECTION

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



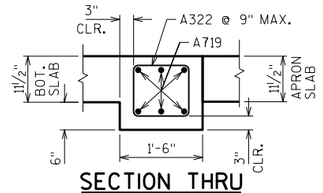
A321, A322

A320

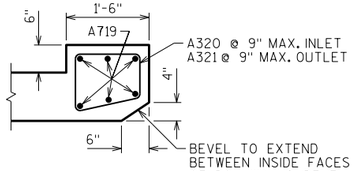
BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
A504	4 SERIES OF 22	1'-0" TO 16'-0"
A405	2 SERIES OF 12	26'-10" TO 36'-4"
A406	4 SERIES OF 11	27'-3" TO 35'-11"

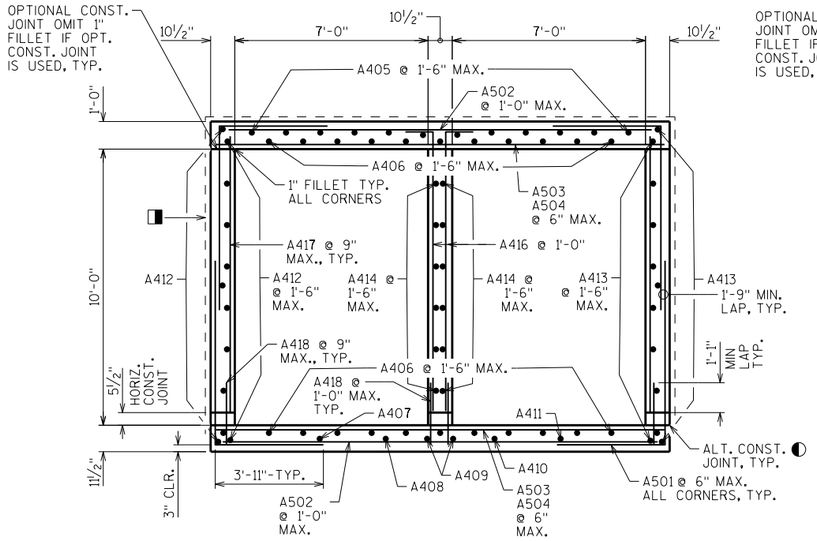
BUNDLE AND TAG EACH SERIES SEPARATELY.



SECTION THRU BOTTOM SLAB HEADER



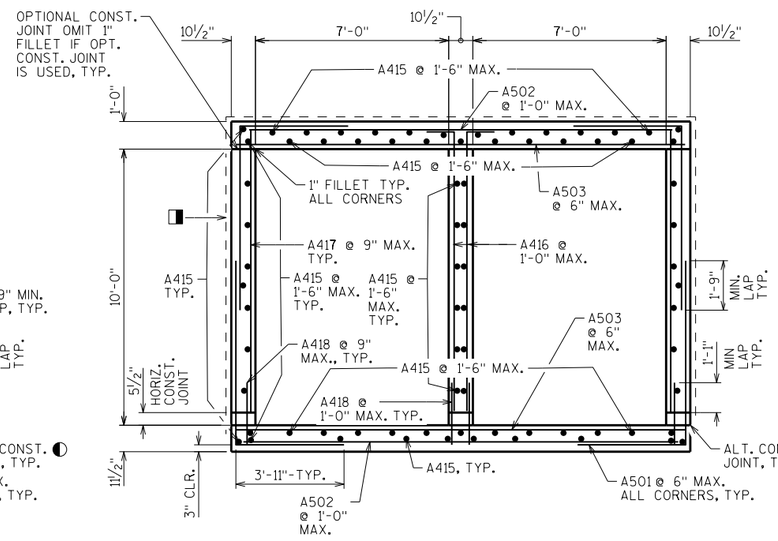
SECTION THRU TOP SLAB HEADER



TYPICAL SECTION THRU PANELS 1 & 4

EXTERIOR PANELS

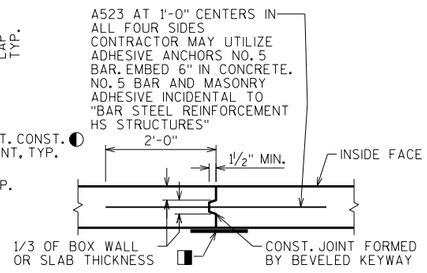
◐ OMIT 1" FILLET IF ALT. CONST. JOINT IS USED



TYPICAL SECTION THRU PANELS 2 & 3

INTERIOR PANELS

ALL LONGITUDINAL BARS NOT LABELED ARE A415



VERTICAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.

◨ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING (R.M.W.) UP WALLS AND ACROSS TOP OF SLAB AT VERTICAL CONST. JOINTS. EXTEND R.M.W. 6" MIN. BELOW THE TOP OF BOTTOM SLAB.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-31-57

DRAWN BY MJK | PLANS CK'D. BAF

BOX DETAILS

SHEET 2

136

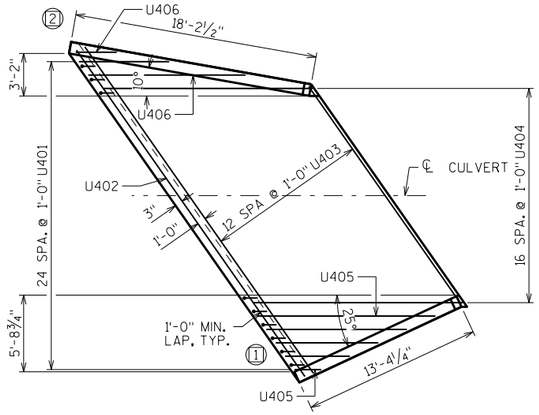
SCALE = 2.00

8

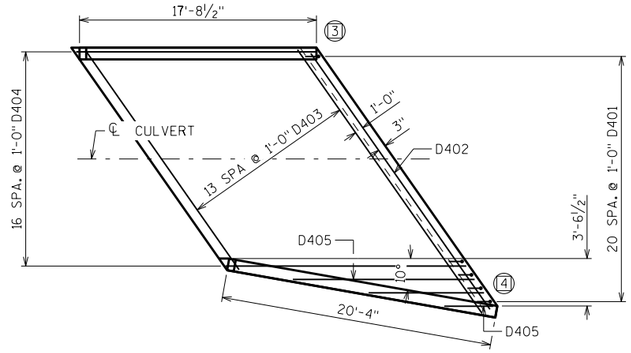
8

STATE PROJECT NUMBER

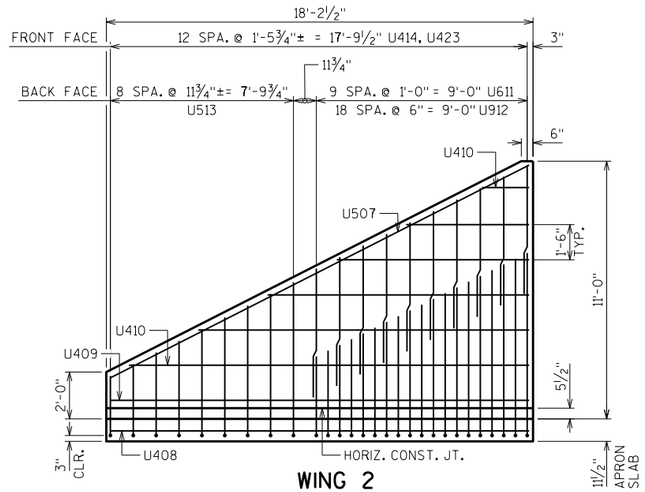
1470-25-71



INLET APRON PLAN

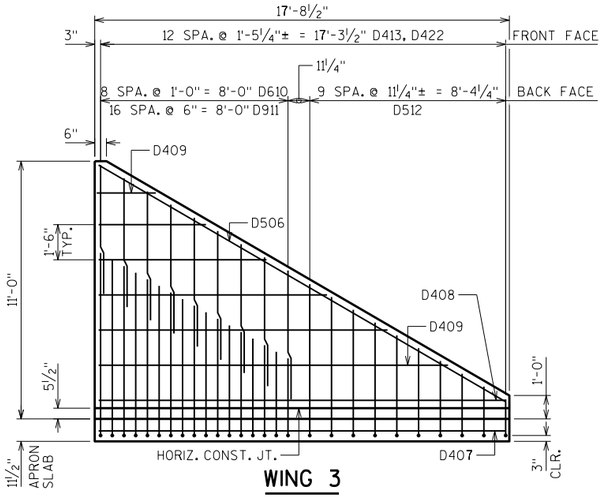


OUTLET APRON PLAN



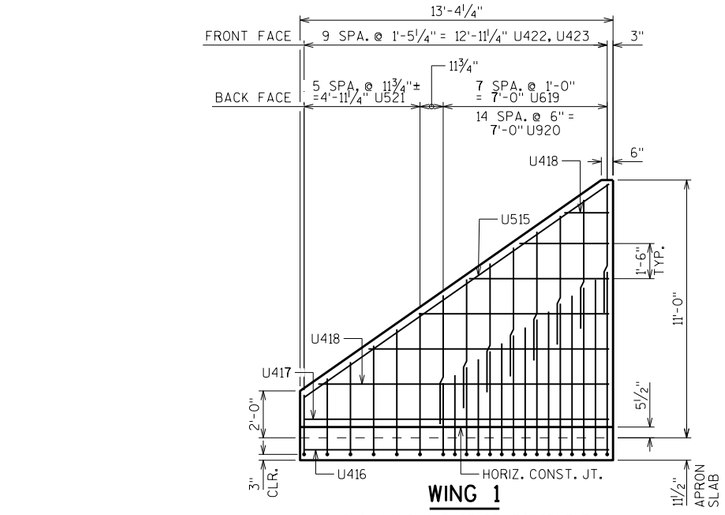
WING 2

SHOWING BACKFACE REINFORCEMENT



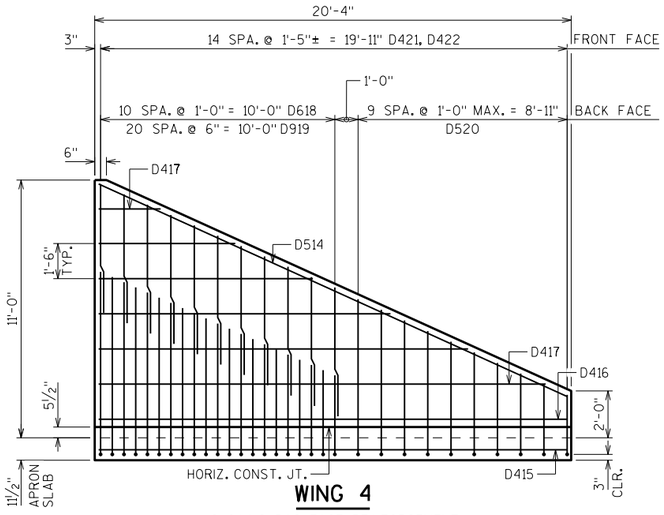
WING 3

SHOWING BACKFACE REINFORCEMENT



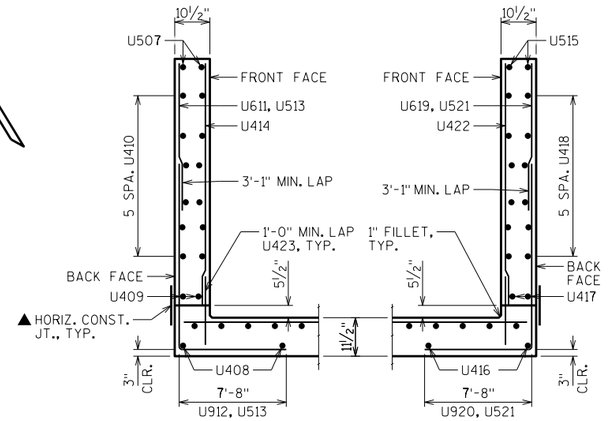
WING 1

SHOWING BACKFACE REINFORCEMENT



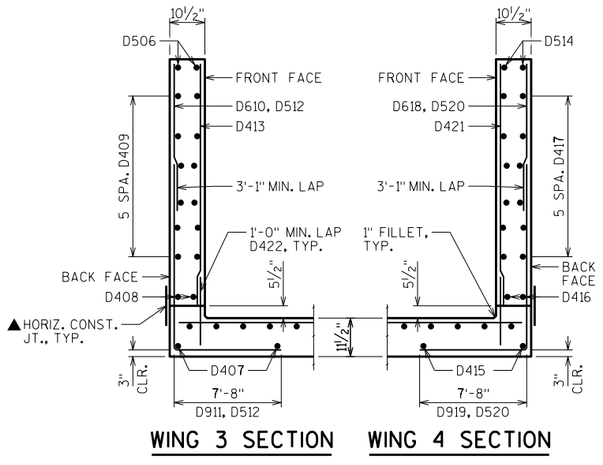
WING 4

SHOWING BACKFACE REINFORCEMENT



WING 2 SECTION

WING 1 SECTION



WING 3 SECTION

WING 4 SECTION

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING, PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH, TYP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-31-57

DRAWN BY MJK | PLANS CK'D. BAF

APRON

SHEET 3

137

SCALE = 5.50

8

8

STATE PROJECT NUMBER

1470-25-71

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

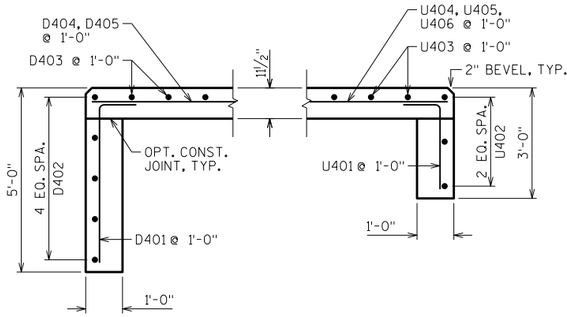
BAR MARK	COAT	NO.	LENGTH	BENT	SERIES	LOCATION
U401		25	3'-6"	X		INLET APRON AND CUTOFF WALL VERT
U402		3	29'-9"			INLET APRON AND CUTOFF WALL HORIZ
U403		13	24'-10"		⚠	INLET APRON
U404		17	15'-11"			INLET APRON
U405		5	7'-8"		⚠	INLET APRON
U406		3	6'-8"		⚠	INLET APRON
U507	X	2	19'-8"			WING 2 - HORIZONTAL - TOP - BOTH FACES
U408		2	17'-9"			WING 2 - APRON BOTTOM SLAB
U409	X	2	17'-9"			WING 2 - BOTTOM - HORIZONTAL
U410	X	12	9"-10"		⚠	WING 2 - HORIZONTAL
U611	X	10	6'-0"			WING 2 - VERTICAL - BACK FACE
U912	X	19	13'-10"	X	⚠	WING 2 - VERTICAL - BACK FACE
U513	X	9	12'-4"	X	⚠	WING 2 - VERTICAL - BACK FACE
U414	X	13	5'-11"		⚠	WING 2 - VERTICAL - FRONT FACE
U515	X	2	15'-6"			WING 1 - HORIZONTAL - TOP - BOTH FACES
U416		2	12'-11"			WING 1 - APRON BOTTOM SLAB
U417	X	2	12'-11"			WING 1 - BOTTOM - HORIZONTAL
U418	X	12	7'-2"		⚠	WING 1 - HORIZONTAL
U619	X	8	6'-0"			WING 1 - VERTICAL - BACK FACE
U920	X	15	13'-10"	X	⚠	WING 1 - VERTICAL - BACK FACE
U521	X	6	12'-1"	X	⚠	WING 1 - VERTICAL - BACK FACE
U422	X	10	5'-11"		⚠	WING 1 - VERTICAL - FRONT FACE
U423	X	23	2'-2"			WING 1&2 - DOWEL BARS
D401		20	5'-6"	X		OUTLET APRON AND CUTOFF WALL VERT
D402		5	23'-4"			OUTLET APRON AND CUTOFF WALL HORIZ
D403		14	22'-0"		⚠	OUTLET APRON
D404		17	17'-9"			OUTLET APRON
D405		3	8'-8"		⚠	OUTLET APRON
D506	X	2	19'-9"			WING 3 - HORIZONTAL - TOP - BOTH FACES
D407		2	17'-3"			WING 3 - APRON - BOTTOM SLAB
D408	X	2	17'-3"			WING 3 - BOTTOM - HORIZONTAL
D409	X	12	8'-7"		⚠	WING 3 - HORIZONTAL
D610	X	9	6'-0"			WING 3 - VERTICAL - BACK FACE
D911	X	17	13'-10"	X	⚠	WING 3 - VERTICAL - BACK FACE
D512	X	10	11'-10"	X	⚠	WING 3 - VERTICAL - BACK FACE
D413	X	13	5'-5"		⚠	WING 3 - VERTICAL - FRONT FACE
D514	X	2	21'-7"			WING 4 - HORIZONTAL - TOP - BOTH FACES
D415		2	19'-11"			WING 4 - APRON - BOTTOM SLAB
D416	X	2	19'-11"			WING 4 - BOTTOM - HORIZONTAL
D417	X	12	10'-11"		⚠	WING 4 - HORIZONTAL
D618	X	11	6'-0"			WING 4 - VERTICAL - BACK FACE
D919	X	21	13'-11"	X	⚠	WING 4 - VERTICAL - BACK FACE
D520	X	10	12'-5"	X	⚠	WING 4 - VERTICAL - BACK FACE
D421	X	15	5'-11"		⚠	WING 4 - VERTICAL - FRONT FACE
D422	X	28	2'-2"			WING 3&4 - DOWEL BARS

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

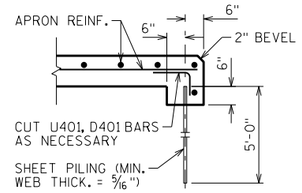
BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U403	1 SERIES OF 13	19'-10" TO 29'-9"
U405	1 SERIES OF 5	2'-0" TO 13'-4"
U406	1 SERIES OF 3	1'-6" TO 11'-9"
U410	2 SERIES OF 6	2'-5" TO 17'-2"
U912	1 SERIES OF 19	11'-7" TO 16'-1"
U513	1 SERIES OF 9	10'-4" TO 14'-4"
U414	1 SERIES OF 13	1'-5" TO 10'-4"
U418	2 SERIES OF 6	1'-9" TO 12'-6"
U920	1 SERIES OF 15	11'-6" TO 16'-1"
U521	1 SERIES OF 6	10'-4" TO 13'-10"
U422	1 SERIES OF 10	1'-5" TO 10'-4"
D403	1 SERIES OF 14	20'-1" TO 23'-11"
D405	1 SERIES OF 3	3'-8" TO 13'-7"
D409	2 SERIES OF 6	2'-1" TO 15'-0"
D911	1 SERIES OF 17	11'-7" TO 16'-1"
D512	1 SERIES OF 10	9'-4" TO 14'-3"
D413	1 SERIES OF 13	0'-5" TO 10'-4"
D417	2 SERIES OF 6	2'-8" TO 19'-2"
D919	1 SERIES OF 21	11'-8" TO 16'-1"
D520	1 SERIES OF 10	10'-4" TO 14'-5"
D421	1 SERIES OF 15	1'-5" TO 10'-4"



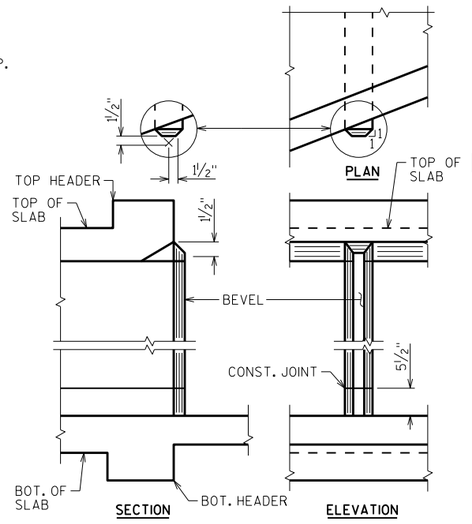
CUT-OFF WALLS

LOOKING SOUTH

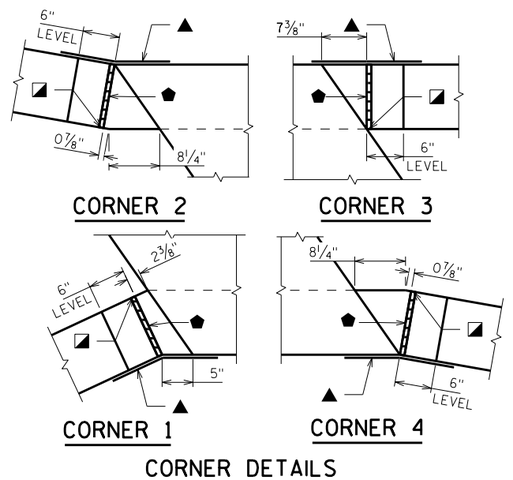


ALTERNATE CUT-OFF WALLS

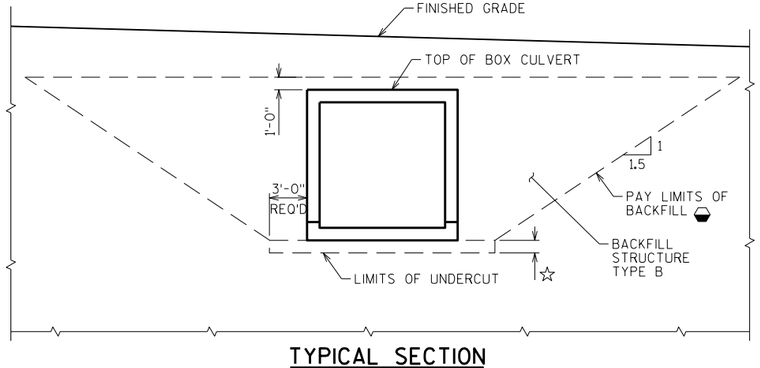
THE ABOVE ALTERNATIVE MAY BE USED IN LIEU OF CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.



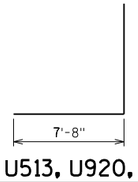
INLET NOSE DETAILS



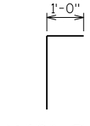
CORNER DETAILS



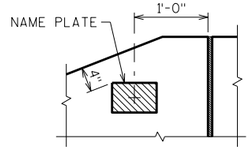
TYPICAL SECTION THRU BOX CULVERT



U912, U513, U920, U521, D911, D512, D919, D520



U401, D401



NAME PLATE LOCATION WING 4

⬬ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

☆ UNDERCUT 1'-0". EXCAVATION FOR UNDERCUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM, THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.

⬟ 3/4" FILLER, TYP. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL, TYP.

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-31-57

DRAWN BY MJK | PLANS CK'D. BAF

APRON DETAILS

SHEET 4

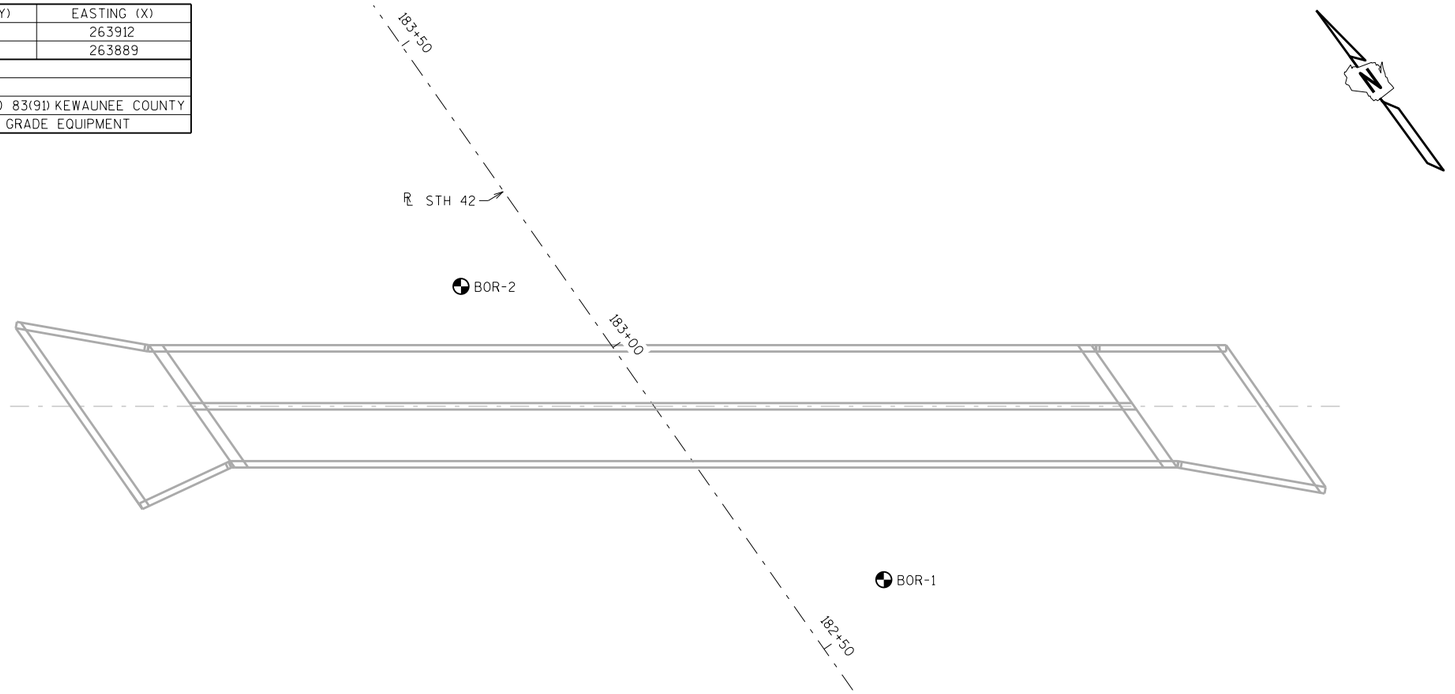
138

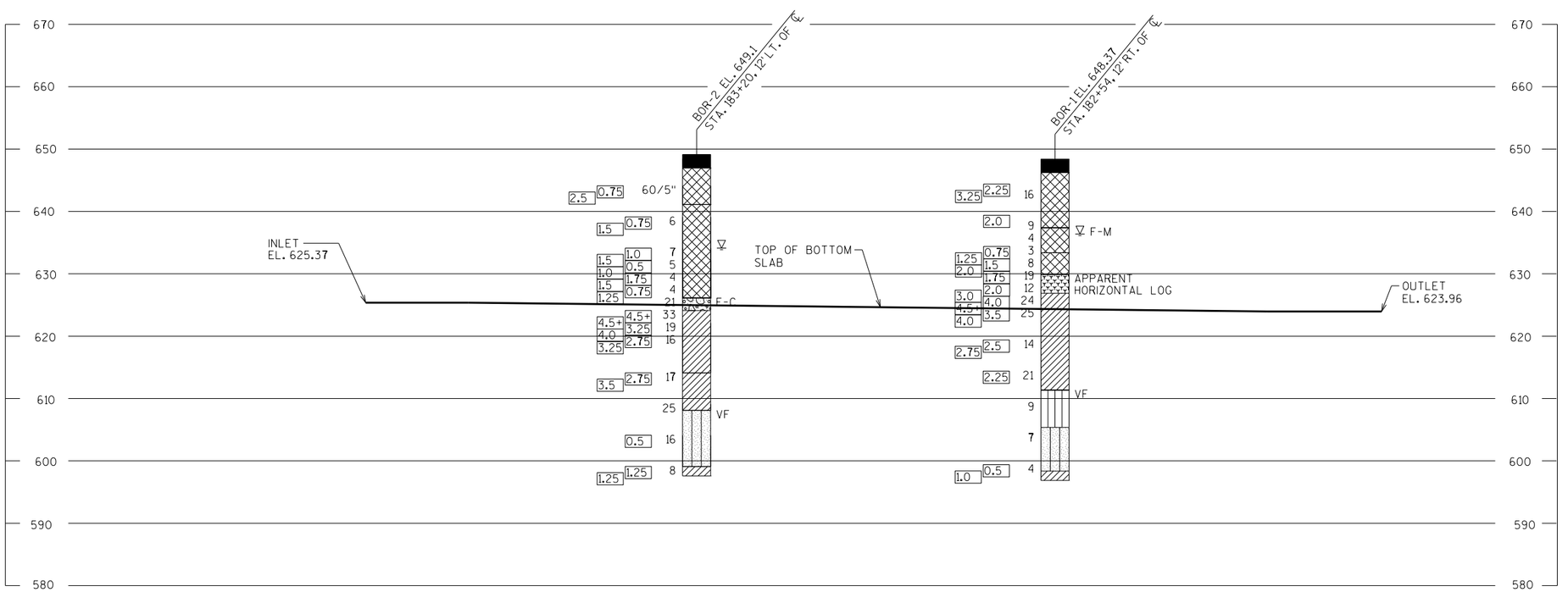
SCALE = 1.00

8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	3/19/2019	394880	263912
2	3/19/2019	394946	263889
BORINGS COMPLETED BY: WISDOT			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) KEWAUNEE COUNTY			
COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT			





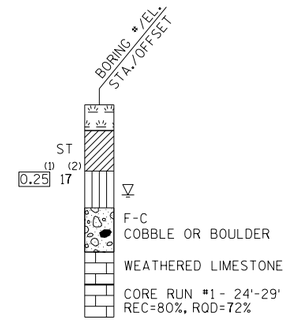
STATE PROJECT NUMBER

1470-25-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-31-57

DRAWN BY TLP/MJK | PLANS CK'D. BAF

SUBSURFACE EXPLORATION

SHEET 5

139

8

8

SCALE = 10

Division 1 - STH 42 - Gibs

STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	EXPANDED FILL	EXPANDED EBS BACKFILL	REDUCED EBS IN FILL	MASS ORDINATE
										1.00	1.25	1.30	0.80	
						NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 5	NOTE 7	NOTE 8
100+00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
100+15.069	15.07	7.80	0.00	36.07	0.00	2	0	10	0	2	13	0	0	-11
100+29.948	14.88	8.17	0.00	25.61	0.00	4	0	17	0	6	34	0	0	-28
100+33.567	3.62	16.07	0.00	9.45	0.00	2	0	2	0	8	36	0	0	-28
100+45.887	12.32	17.44	0.00	13.70	0.00	8	0	5	0	16	43	0	0	-27
100+73	27.11	14.04	0.00	30.69	0.00	16	0	22	0	32	70	0	0	-38
100+75	2.00	93.30	24.90	31.80	0.00	4	1	2	0	36	73	0	0	-38
101+08.566	33.57	92.15	24.54	51.70	139.39	115	31	52	87	151	51	113	70	69
101+15.643	7.08	93.33	24.65	52.40	169.99	24	6	14	41	175	27	166	102	110
101+17.094	1.45	93.68	24.65	52.65	0.00	5	1	3	5	180	26	173	106	115
101+23.181	6.09	93.94	24.80	54.90	0.00	21	6	12	0	201	41	173	106	115
101+27.295	4.11	94.96	25.10	42.57	161.47	14	4	7	12	215	38	189	116	129
101+45.35	18.05	87.96	27.90	15.52	70.11	61	18	19	77	276	-16	289	178	225
101+63.861	18.51	90.85	29.43	11.14	0.00	61	20	9	24	337	-29	320	197	279
101+66	2.14	18.11	0.00	10.70	0.00	4	1	1	0	341	-27	320	197	280
101+70.08	4.08	27.54	0.00	16.40	0.00	3	0	2	0	344	-25	320	197	281
101+82.32	12.24	33.44	0.00	21.28	0.00	14	0	9	0	358	-14	320	197	284
102+12.56	30.24	24.22	0.00	16.27	0.00	32	0	21	0	390	13	320	197	289
102+50	37.44	14.28	0.00	0.00	0.00	27	0	11	0	417	27	320	197	303
102+57.86	7.86	11.56	0.00	12.27	0.00	4	0	2	0	421	29	320	197	304
102+69.07	11.21	8.22	0.00	2.77	0.00	4	0	3	0	425	33	320	197	304
102+92.535	23.47	8.73	0.00	1.50	0.00	7	0	2	0	432	35	320	197	309
103+03	10.46	0.00	0.00	0.00	0.00	2	0	0	0	434	35	320	197	311
						434	88	225	246					

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	EXISTING PAVEMENT. NOT SHOWN IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	EBS TO BE BACKFILLED WITH FOUNDATION BACKFILL: [CUT - SALVAGED PAVT - ((FILL - REDUCED EBS IN FILL) * FILL FACTOR)]

Continued

Division 1 - STH 42 - BG 2

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
115+88	0.00	0.00	0.00	0.00	0	0	0	0	0	0
115+98.408	10.41	5.07	0.00	1.41	1	0	0	1	0	1
116+68.596	70.19	16.35	0.00	2.06	28	0	5	29	6	23
116+77.3	8.70	12.52	0.00	2.31	5	0	1	34	8	27
116+87.278	9.98	10.25	0.00	2.81	4	0	1	38	9	29
117+17.233	29.95	7.94	0.00	8.19	10	0	6	48	16	32
117+42.398	25.17	11.03	0.00	5.16	9	0	6	57	24	33
117+46.55	4.15	11.62	0.00	4.09	2	0	1	59	25	34
117+67.498	20.95	12.76	0.00	1.23	9	0	2	68	28	41
117+86.74	19.24	8.63	0.00	6.01	8	0	3	76	31	45
118+00.811	14.07	7.13	0.00	16.78	4	0	6	80	39	41
118+11.444	10.63	6.71	0.00	13.88	3	0	6	83	46	37
118+29.28	17.84	6.53	0.00	11.69	4	0	8	87	56	31
118+36.289	7.01	6.42	0.00	10.72	2	0	3	89	60	29
118+75.903	39.61	5.57	0.00	0.12	9	0	8	98	70	28
119+00	24.10	5.34	0.00	0.05	5	0	0	103	70	33
119+50	50.00	4.36	0.00	1.79	9	0	2	112	73	40
120+00	50.00	5.02	0.00	0.61	9	0	2	121	75	46
120+50	50.00	5.48	0.00	0.11	10	0	1	131	76	55
121+00	50.00	5.48	0.00	0.98	10	0	1	141	78	64
121+14.117	14.12	5.63	0.00	0.67	3	0	0	144	78	67
121+53.7	39.58	6.03	0.00	3.30	9	0	3	153	81	72
121+78.597	24.90	5.22	0.00	15.46	5	0	9	158	93	66
122+03.494	24.90	7.09	0.00	28.14	6	0	20	164	118	47
122+43.49	40.00	9.53	0.00	11.05	12	0	29	176	154	22
122+59.378	15.89	4.39	0.00	0.00	4	0	3	180	158	23
122+84.345	24.97	6.25	0.00	0.00	5	0	0	185	158	28
122+94.579	10.23	5.91	0.00	0.00	2	0	0	187	158	30
123+21.445	26.87	8.64	0.00	2.30	7	0	1	194	159	35
123+25.95	4.51	4.24	0.00	2.81	1	0	0	195	159	36
123+51.054	25.10	3.35	0.00	8.22	4	0	5	199	165	34
123+76.158	25.10	2.83	0.00	16.66	3	0	12	202	180	22
124+00	23.84	3.79	0.00	10.03	3	0	12	205	195	10
124+16.16	16.16	4.70	0.00	6.08	3	0	5	208	201	7
124+50	33.84	4.54	0.00	2.31	6	0	5	214	208	7
124+95.091	45.09	4.98	0.00	0.19	8	0	2	222	210	12
125+05	9.91	0.00	0.00	0.00	1	0	0	223	210	13
					223	0	168			

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	EXISTING PAVEMENT. NOT SHOWN IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	[(CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]

Continued

Division 1 - STH 42 - BG 3

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
132+72	0.00	0.00	0.00	0.00	0	0	0	0	0	0
132+81.71	9.71	3.08	0.00	0.00	1	0	0	1	0	1
132+86.887	5.18	4.63	0.00	0.69	1	0	0	2	0	2
133+00	13.11	4.03	0.00	6.58	2	0	2	4	3	2
133+60.15	60.15	15.52	0.00	3.06	22	0	11	26	16	10
133+75	14.85	0.00	0.00	0.00	4	0	1	30	18	13
134+00.15	25.15	9.20	0.00	7.47	4	0	3	34	21	13
134+09.21	9.06	4.67	0.00	7.08	2	0	2	36	24	12
134+25	15.79	6.91	0.00	8.42	3	0	5	39	30	9
134+37.5	12.50	4.94	0.00	9.02	3	0	4	42	35	7
134+40.919	3.42	8.98	0.00	10.51	1	0	1	43	36	7
134+50	9.08	7.57	0.00	9.53	3	0	3	46	40	6
134+75	25.00	8.08	0.00	5.91	7	0	7	53	49	4
134+84.86	9.86	8.42	0.00	6.65	3	0	2	56	51	5
135+00	15.14	8.65	0.00	8.22	5	0	4	61	56	5
135+19.36	19.36	8.95	0.00	15.08	6	0	8	67	66	1
135+51.385	32.02	6.95	0.00	22.64	9	0	22	76	94	-18
135+59.359	7.97	6.82	0.00	22.84	2	0	7	78	103	-25
135+68.419	9.06	7.70	0.00	17.32	2	0	7	80	111	-31
135+84.359	15.94	9.04	0.00	7.52	5	0	7	85	120	-35
136+00	15.64	11.25	0.00	0.80	6	0	2	91	123	-32
136+09.357	9.36	14.36	0.00	0.00	4	0	0	95	123	-28
136+44.069	34.71	11.76	0.00	0.00	17	0	0	112	123	-11
136+50	5.93	10.49	0.00	0.02	2	0	0	114	123	-9
137+00	50.00	8.21	0.00	0.00	17	0	0	131	123	9
137+50	50.00	8.07	0.00	0.00	15	0	0	146	123	24
138+00	50.00	8.29	0.00	0.00	15	0	0	161	123	39
138+25	25.00	7.87	0.00	0.02	7	0	0	168	123	46
138+50	25.00	7.41	0.00	1.29	7	0	1	175	124	51
138+75.001	25.00	7.10	0.00	0.77	7	0	1	182	125	57
138+87.5	12.50	6.94	0.00	2.28	3	0	1	185	126	59
139+00	12.50	6.92	0.00	1.94	3	0	1	188	128	61
139+12.5	12.50	7.51	0.00	0.04	3	0	0	191	128	64
139+25	12.50	8.02	0.00	0.00	4	0	0	195	128	68
139+50	25.00	8.65	0.00	0.00	8	0	0	203	128	76

Continued on table to the right.

Division 1 - STH 42 - BG 3

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
139+75	25.00	8.04	0.00	0.00	8	0	0	211	128	84
140+00	25.00	7.98	0.00	0.15	7	0	0	218	128	91
140+12.5	12.50	8.00	0.00	0.00	4	0	0	222	128	95
140+50	37.50	7.72	0.00	0.01	11	0	0	233	128	106
140+55.82	5.82	8.11	0.00	0.00	2	0	0	235	128	108
140+67	11.18	9.05	0.00	0.00	4	0	0	239	128	112
140+75	8.00	9.72	0.00	0.01	3	0	0	242	128	115
140+83	8.00	10.15	0.00	0.38	3	0	0	245	128	118
140+90.53	7.53	10.24	0.00	0.67	3	0	0	248	128	121
141+08	17.47	10.50	0.00	1.59	7	0	1	255	129	126
141+12.5	4.50	10.13	0.00	1.48	2	0	0	257	129	128
141+15.53	3.03	9.78	0.00	1.66	1	0	0	258	129	129
141+31.47	15.94	8.45	0.00	6.34	5	0	2	263	131	132
141+40.53	9.06	7.73	0.00	9.79	3	0	3	266	135	131
141+47.262	6.73	7.95	0.00	11.47	2	0	3	268	139	129
141+50	2.74	7.88	0.00	12.34	1	0	1	269	140	129
141+56.322	6.32	7.74	0.00	14.06	2	0	3	271	144	127
141+64.556	8.23	8.51	0.00	13.18	2	0	4	273	149	124
141+75	10.44	9.45	0.00	12.57	3	0	5	276	155	121
142+00	25.00	10.50	0.00	9.63	9	0	10	285	168	118
142+25	25.00	10.38	0.00	7.49	10	0	8	295	178	118
142+58.97	33.97	10.47	0.00	0.87	13	0	5	308	184	124
142+74.762	15.79	4.88	0.00	0.01	4	0	0	312	184	128
142+85	10.24	0.00	0.00	0.00	1	0	0	313	184	129
					313	0	147			

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	EXISTING PAVEMENT. NOT SHOWN IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	[(CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]

Division -- STH 42 - BG 4/C-31-57

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
179+37	0.00	0.00	0.00	0.00	0	0	0	0	0	0
179+47.013	10.01	7.53	0.00	0.06	1	0	0	1	0	1
179+75	27.99	9.96	0.00	0.00	9	0	0	10	0	10
180+11.68	36.68	12.84	0.00	0.00	15	0	0	25	0	25
180+25.45	13.77	14.67	0.00	0.00	7	0	0	32	0	32
180+50	24.55	17.88	0.00	0.00	15	0	0	47	0	47
180+65.451	15.45	30.57	0.00	0.00	14	0	0	61	0	61
180+90.38	24.93	31.12	0.00	0.00	28	0	0	89	0	89
181+15.453	25.07	31.31	0.00	0.00	29	0	0	118	0	118
181+25	9.55	21.83	0.00	0.00	9	0	0	127	0	127
181+30.38	5.38	19.03	0.00	1.22	4	0	0	131	0	131
181+45.831	15.45	12.39	0.00	15.77	9	0	5	140	6	134
181+50.144	4.31	9.29	0.00	18.57	2	0	3	142	10	132
181+55.38	5.24	8.31	0.00	21.00	2	0	4	144	15	129
181+75	19.62	6.04	0.00	56.56	5	0	28	149	50	99
181+80.378	5.38	6.30	0.00	57.59	1	0	11	150	64	86
181+92	11.62	22.56	0.00	67.72	6	0	27	156	98	59
181+94	2.00	76.52	18.60	67.98	4	1	5	160	104	55
182+00	6.00	76.46	18.60	68.45	17	4	15	177	123	50
182+15.09	15.09	79.25	18.60	44.77	44	10	32	221	163	44
182+28.319	13.23	86.92	18.60	31.01	41	9	19	262	186	52
182+52.505	24.19	100.70	18.60	53.21	84	17	38	346	234	71
182+66.301	13.80	77.56	18.60	14.98	46	10	17	392	255	86
183+00.009	33.71	81.97	18.60	4.82	100	23	12	492	270	148
183+16.118	16.11	115.36	18.60	62.23	59	11	20	551	295	171
183+25	8.88	75.95	18.60	70.26	31	6	22	582	323	169
183+50	25.00	119.21	18.60	20.64	90	17	42	672	375	189
183+65.395	15.40	95.30	18.60	0.25	61	11	6	733	383	232
183+75	9.60	84.58	18.60	4.05	32	7	1	765	384	255
183+86	11.00	83.70	18.60	5.97	34	8	2	799	386	279
183+88	2.00	33.06	0.00	4.49	4	1	0	803	386	282
183+99.99	11.99	8.57	0.00	0.80	9	0	1	812	388	290
184+50	50.01	10.19	0.00	0.00	17	0	1	829	389	305
184+64.109	14.11	10.75	0.00	0.00	5	0	0	834	389	310
184+71.62	7.51	10.69	0.00	0.00	3	0	0	837	389	313
184+96.62	25.00	9.94	0.00	1.34	10	0	1	847	390	322
185+00	3.38	9.83	0.00	1.67	1	0	0	848	390	323
185+21.622	21.62	9.20	0.00	3.46	8	0	2	856	393	329
185+26.836	5.21	9.29	0.00	3.21	2	0	1	858	394	329
185+50	23.16	9.84	0.00	3.35	8	0	3	866	398	334
185+61.686	11.69	10.16	0.00	3.18	4	0	1	870	399	336
185+73.092	11.41	5.78	0.00	0.15	3	0	1	873	400	338
185+86.539	13.45	6.78	0.00	0.00	3	0	0	876	400	341
186+11.536	25.00	7.90	0.00	0.16	7	0	0	883	400	348
186+51.55	40.01	7.35	0.00	0.74	11	0	1	894	401	358
187+00	48.45	5.39	0.00	0.42	11	0	1	905	403	368
187+29.986	29.99	5.67	0.00	0.00	6	0	0	911	403	374
187+40	10.01	0.00	0.00	0.00	1	0	0	912	403	375
					912	135	322			

Division 1 - STH 42 - BG 5

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
206+88	0.00	0.00	0.00	0.00	0	0	0	0	0	0
206+98.214	10.21	6.00	0.00	0.36	1	0	0	1	0	1
207+04.995	6.78	5.38	0.00	0.60	1	0	0	2	0	2
207+17.108	12.11	4.40	0.00	2.33	2	0	1	4	1	3
207+67.476	50.37	3.77	0.00	4.41	8	0	6	12	9	3
207+75.009	7.53	3.81	0.00	3.62	1	0	1	13	10	3
207+84.068	9.06	4.27	0.00	2.05	1	0	1	14	11	3
208+00	15.93	5.12	0.00	0.62	3	0	1	17	13	5
208+25	25.00	6.06	0.00	0.00	5	0	0	22	13	10
208+33.425	8.43	5.62	0.00	0.00	2	0	0	24	13	12
208+50	16.57	4.79	0.00	0.06	3	0	0	27	13	15
208+59.718	9.72	4.34	0.00	0.00	2	0	0	29	13	17
208+75	15.28	10.34	0.00	1.67	4	0	0	33	13	21
208+94.729	19.73	9.85	0.00	1.01	7	0	1	40	14	26
209+09.981	15.25	10.02	0.00	0.22	6	0	0	46	14	32
209+34.981	25.00	13.76	0.00	0.55	11	0	0	57	14	43
209+59.981	25.00	13.28	0.00	0.41	13	0	0	70	14	56
209+75	15.02	11.34	0.00	0.39	7	0	0	77	14	63
209+94.69	19.69	10.83	0.00	1.98	8	0	1	85	15	70
210+00.001	5.31	11.30	0.00	0.00	2	0	0	87	15	72
210+25	25.00	10.68	0.00	0.39	10	0	0	97	15	82
210+45.49	20.49	6.43	0.00	2.70	6	0	1	103	16	87
211+00	54.51	4.15	0.00	0.91	11	0	4	114	21	93
211+50	50.00	3.71	0.00	3.20	7	0	4	121	26	95
212+00	50.00	4.10	0.00	1.86	7	0	5	128	33	96
212+50	50.00	4.40	0.00	1.78	8	0	3	136	36	100
212+75	25.00	5.02	0.00	0.49	4	0	1	140	38	103
213+00	25.00	6.48	0.00	0.00	5	0	0	145	38	108
213+25	25.00	8.29	0.00	0.00	7	0	0	152	38	115
213+46.46	21.46	9.40	0.00	0.00	7	0	0	159	38	122
213+81.17	34.71	10.30	0.00	0.01	13	0	0	172	38	135
213+93	11.83	9.68	0.00	3.82	4	0	1	176	39	137
214+06.43	13.43	8.47	0.00	5.57	5	0	2	181	41	140
214+31.17	24.74	7.94	0.00	10.58	8	0	7	189	50	139
214+41.14	9.97	9.14	0.00	9.82	3	0	4	192	55	137
214+58	16.86	10.39	0.00	8.33	6	0	6	198	63	136
214+66.14	8.14	10.33	0.00	7.30	3	0	2	201	65	136
214+71.094	4.95	10.52	0.00	6.66	2	0	1	203	66	137
214+91.15	20.06	9.85	0.00	6.07	8	0	5	211	73	139
215+13.667	22.52	10.08	0.00	4.88	8	0	5	219	79	140
215+31.14	17.47	10.50	0.00	3.91	7	0	3	226	83	144
215+49.61	18.47	10.62	0.00	2.29	7	0	2	233	85	148
215+75	25.39	5.17	0.00	0.79	7	0	1	240	86	154
216+09.58	34.58	0.00	0.00	0.00	3	0	1	243	88	156
216+20	10.42	0.00	0.00	0.00	0	0	0	243	88	156
					243	0	70			

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	EXISTING PAVEMENT. NOT SHOWN IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	[(CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]

Continued

Division 1 - STH 42 - BG 6

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.25	NOTE 8
233+94	0.00	0.00	0.00	0.00	0	0	0	0	0	0
234+03.84	9.84	6.39	0.00	0.00	1	0	0	1	0	1
234+50	46.16	6.28	0.00	0.59	11	0	1	12	1	11
234+82.28	32.28	6.26	0.00	2.99	7	0	2	19	4	15
234+92.269	9.99	11.48	0.00	4.36	3	0	1	22	5	17
235+22.28	30.01	2.17	0.00	7.84	8	0	7	30	14	16
235+29.041	6.76	2.26	0.00	7.25	1	0	2	31	16	15
235+47.28	18.24	2.86	0.00	6.58	2	0	5	33	23	11
235+70.71	23.43	10.86	0.00	6.35	6	0	6	39	30	9
235+72.28	1.57	10.89	0.00	5.56	1	0	0	40	30	10
236+06.99	34.71	14.04	0.00	0.09	16	0	4	56	35	21
236+10.718	3.73	12.96	0.00	0.77	2	0	0	58	35	23
236+35.684	24.97	9.45	0.00	2.80	10	0	2	68	38	31
236+60.709	25.03	8.64	0.00	3.60	8	0	3	76	41	35
236+95.419	34.71	6.95	0.00	0.00	10	0	2	86	44	42
237+25	29.58	6.26	0.00	0.10	7	0	0	93	44	49
237+50	25.00	5.41	0.00	3.57	5	0	2	98	46	52
238+00	50.00	4.46	0.00	13.98	9	0	16	107	66	41
238+50	50.00	5.19	0.00	3.49	9	0	16	116	86	30
238+75	25.00	5.76	0.00	7.40	5	0	5	121	93	29
239+00	25.00	5.85	0.00	10.15	5	0	8	126	103	24
239+50	50.00	6.35	0.00	4.58	11	0	14	137	120	17
240+00	50.00	7.10	0.00	0.76	12	0	5	149	126	23
240+56.248	56.25	6.64	0.00	1.00	14	0	2	163	129	34
240+90.957	34.71	8.48	0.00	6.89	10	0	5	173	135	38
241+15.957	25.00	10.33	0.00	3.09	9	0	5	182	141	41
241+40.929	24.97	4.89	0.00	0.00	7	0	1	189	143	47
241+44.67	3.74	4.91	0.00	0.00	1	0	0	190	143	48
241+60.959	16.29	4.96	0.00	1.63	3	0	0	193	143	51
241+79.38	18.42	9.11	0.00	10.90	5	0	4	198	148	51
242+04.38	25.00	7.09	0.00	8.64	7	0	9	205	159	46
242+29.372	24.99	6.02	0.00	6.37	6	0	7	211	168	44
242+50	20.63	3.73	0.00	5.00	4	0	4	215	173	43
242+69.38	19.38	5.21	0.00	4.43	3	0	3	218	176	42
242+99.99	30.61	8.01	0.00	0.03	7	0	3	225	180	45
243+10	10.01	0.00	0.00	0.00	1	0	0	226	180	46
					226	0	144			

Division 1 - STH 42 - BG 7

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.25	NOTE 8
294+28	0.00	0.00	0.00	0.00	0	0	0	0	0	0
294+38.06	10.06	8.80	0.00	0.03	2	0	0	2	0	2
294+45.74	7.68	8.95	0.00	0.00	3	0	0	5	0	5
294+70.74	25.00	7.03	0.00	0.13	7	0	0	12	0	12
294+95.74	25.00	9.16	0.00	0.00	7	0	0	19	0	19
295+17.954	22.21	16.19	0.00	0.00	10	0	0	29	0	29
295+30.454	12.50	16.24	0.00	0.08	8	0	0	37	0	37
295+50	19.55	16.40	0.00	0.94	12	0	0	49	0	49
295+87.006	37.01	11.68	0.00	1.52	19	0	2	68	3	66
296+12.006	25.00	11.38	0.00	0.15	11	0	1	79	4	75
296+37.006	25.00	10.19	0.00	0.93	10	0	1	89	5	84
296+55.835	18.83	8.36	0.00	0.02	6	0	0	95	5	90
296+71.716	15.88	9.21	0.00	0.00	5	0	0	100	5	95
297+00	28.28	10.25	0.00	0.00	10	0	0	110	5	105
297+50	50.00	7.90	0.00	0.01	17	0	0	127	5	122
297+75	25.00	7.57	0.00	0.06	7	0	0	134	5	129
298+00	25.00	7.12	0.00	1.74	7	0	1	141	6	135
298+25	25.00	3.64	0.00	9.93	5	0	5	146	13	134
298+50	25.00	6.14	0.00	4.12	5	0	7	151	21	130
299+00	50.00	6.77	0.00	0.05	12	0	4	163	26	137
299+25	25.00	6.87	0.00	1.44	6	0	1	169	28	142
299+50	25.00	6.83	0.00	4.11	6	0	3	175	31	144
300+00	50.00	6.67	0.00	0.34	12	0	4	187	36	151
300+25	25.00	7.16	0.00	0.00	6	0	0	193	36	157
300+50	25.00	7.60	0.00	0.00	7	0	0	200	36	164
301+00	50.00	9.23	0.00	0.00	16	0	0	216	36	180
301+29.7	29.70	11.75	0.00	0.00	12	0	0	228	36	192
301+64.41	34.71	13.47	0.00	0.10	16	0	0	244	36	208
301+89.41	25.00	10.93	0.00	1.96	11	0	1	255	38	218
302+08.46	19.05	9.93	0.00	5.41	7	0	3	262	41	221
302+14.41	5.95	10.39	0.00	5.54	2	0	1	264	43	222
302+43.17	28.76	10.76	0.00	3.28	11	0	5	275	49	226
302+54.41	11.24	9.88	0.00	5.07	4	0	2	279	51	228
302+68.17	13.76	8.91	0.00	5.99	5	0	3	284	55	229
302+93.17	25.00	7.62	0.00	7.73	8	0	6	292	63	230
303+21.119	27.95	5.68	0.00	4.60	7	0	6	299	70	229
303+32.85	11.73	5.75	0.00	2.78	2	0	2	301	73	229
303+50	17.15	5.92	0.00	0.85	4	0	1	305	74	231
304+00	50.00	0.00	0.00	0.00	5	0	1	310	75	235
304+11.61	11.61	0.00	0.00	0.00	0	0	0	310	75	235
304+20	8.39	0.00	0.00	0.00	0	0	0	310	75	235
					310	0	60			

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	EXISTING PAVEMENT. NOT SHOWN IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	[(CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]

Continued

Division 1 - STH 42 - BG 8

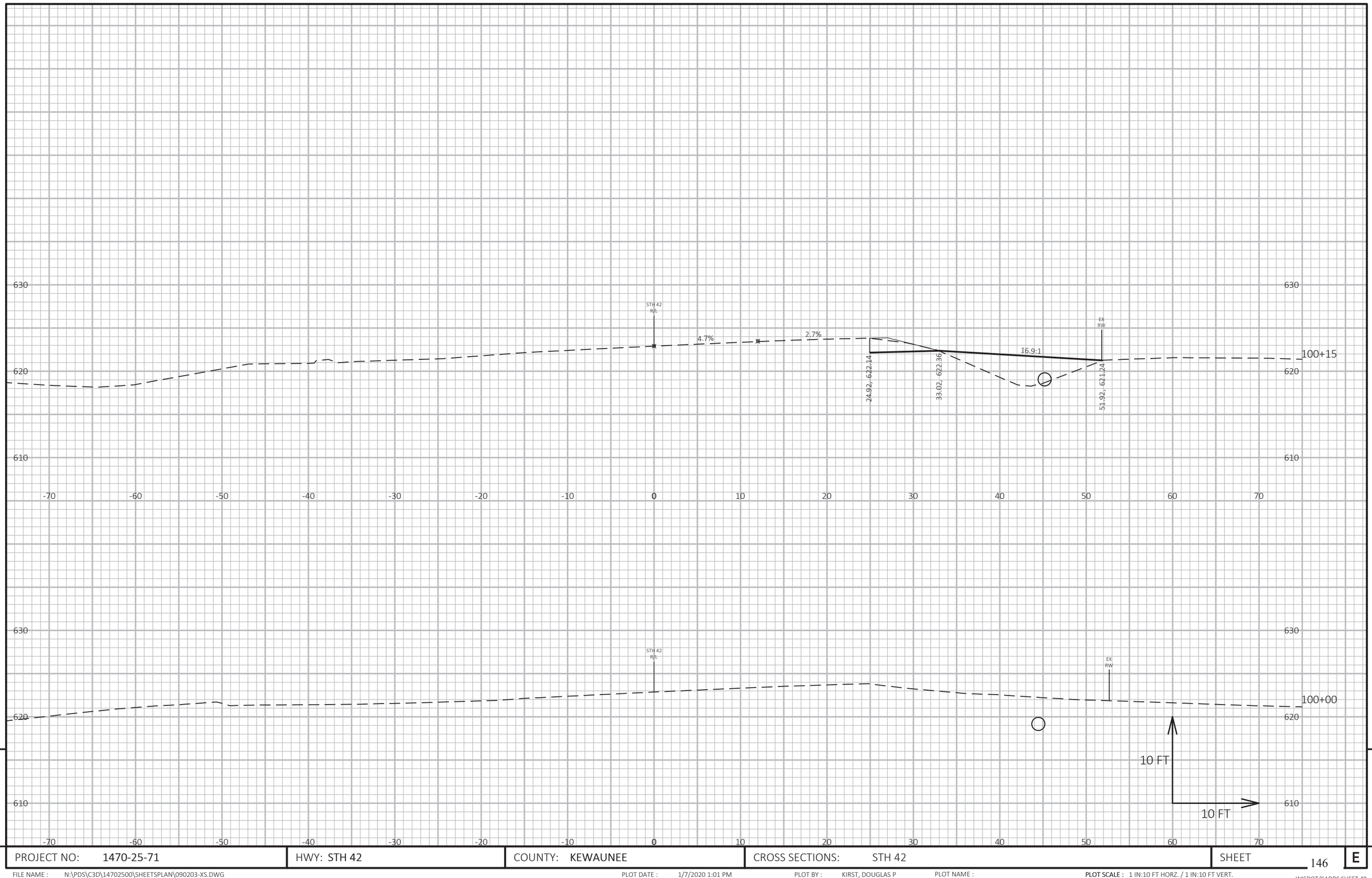
STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.25	NOTE 8
365+28	0.00	0.00	0.00	0.00	0	0	0	0	0	0
365+38.466	10.47	6.37	0.00	3.17	1	0	1	1	1	0
365+54.083	15.62	11.82	0.00	8.71	5	0	3	6	5	1
365+56.087	2.00	11.55	0.00	9.23	1	0	1	7	6	1
365+77.55	21.46	11.46	0.00	13.69	9	0	9	16	18	-2
365+81.087	3.54	10.88	0.00	15.22	1	0	2	17	20	-3
366+02.56	21.47	7.68	0.00	24.11	7	0	16	24	40	-16
366+06.085	3.52	7.54	0.00	25.02	1	0	3	25	44	-19
366+16.89	10.81	6.75	0.00	16.49	3	0	8	28	54	-26
366+25.01	8.12	6.42	0.00	8.50	2	0	4	30	59	-29
366+27.56	2.55	6.60	0.00	7.28	1	0	1	31	60	-29
366+50	22.44	7.00	0.00	0.03	6	0	3	37	64	-27
366+62.27	12.27	7.09	0.00	0.00	3	0	0	40	64	-24
366+83.19	20.92	7.14	0.00	0.00	6	0	0	46	64	-18
366+93.19	10.00	7.00	0.00	1.05	3	0	0	49	64	-15
367+11.67	18.48	6.83	0.00	1.32	5	0	1	54	65	-11
367+22.737	11.07	6.61	0.00	17.34	3	0	4	57	70	-13
367+43.19	20.45	9.66	0.00	8.72	6	0	10	63	83	-20
367+53.19	10.00	13.75	0.00	9.77	4	0	3	67	86	-19
367+71.67	18.48	10.56	0.00	13.83	8	0	8	75	96	-21
367+81.67	10.00	8.85	0.00	15.11	4	0	5	79	103	-24
368+00	18.33	7.48	0.00	17.01	6	0	11	85	116	-31
368+50	50.00	6.25	0.00	18.81	13	0	33	98	158	-60
368+83.718	33.72	6.80	0.00	27.66	8	0	29	106	194	-88
369+08.718	25.00	7.76	0.00	31.24	7	0	27	113	228	-115
369+33.718	25.00	7.32	0.00	34.83	7	0	31	120	266	-146
369+43.987	10.27	6.82	0.00	31.48	3	0	13	123	283	-160
369+50	6.01	7.01	0.00	29.70	2	0	7	125	291	-166
369+73.72	23.72	8.24	0.00	23.50	7	0	23	132	320	-188
370+00	26.28	7.93	0.00	15.18	8	0	19	140	344	-204
370+52.158	52.16	7.57	0.00	4.96	15	0	19	155	368	-213
370+65.04	12.88	2.75	0.00	2.06	2	0	2	157	370	-213
370+75	9.96	2.90	0.00	2.21	1	0	1	158	371	-213
370+99.75	24.75	3.54	0.00	5.40	3	0	3	161	375	-214
371+24.75	25.00	3.12	0.00	8.31	3	0	6	164	383	-219
371+49.762	25.01	2.00	0.00	11.11	2	0	9	166	394	-228
371+89.75	39.99	5.24	0.00	9.28	5	0	15	171	413	-242
372+00	10.25	5.03	0.00	8.22	2	0	3	173	416	-243
372+50	50.00	4.78	0.00	1.52	9	0	9	182	428	-246
372+68.19	18.19	4.68	0.00	0.00	3	0	1	185	429	-244
372+78	9.81	0.00	0.00	0.00	1	0	0	186	429	-243
					186	0	343			

Division 1 - STH 42 - C-31-56

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.25	NOTE 8
401+93	0.00	0.00	0.00	0.00	0	0	0	0	0	0
402+02.635	9.63	8.42	0.00	10.00	2	0	2	2	3	-1
402+50	47.37	9.92	0.00	14.81	16	0	22	18	30	-12
403+00	50.00	10.06	0.00	11.60	19	0	24	37	60	-23
403+18	18.00	12.56	0.00	3.72	8	0	5	45	66	-21
403+30	12.00	16.70	0.00	16.90	7	0	5	52	73	-21
403+32.096	2.10	23.40	15.00	3.96	2	1	1	54	74	-21
403+47.47	15.37	75.40	15.00	1.70	28	9	2	82	76	-4
403+81.56	34.09	76.69	15.00	78.45	96	19	51	178	140	9
404+00	18.44	86.53	15.00	9.19	56	10	30	234	178	18
404+25	25.00	91.89	15.00	2.68	83	14	5	317	184	80
404+43.27	18.27	88.78	15.00	0.57	61	10	1	378	185	130
404+58.65	15.38	81.84	15.00	0.60	49	9	0	427	185	170
404+75	16.35	74.75	15.00	1.35	47	9	1	474	186	207
404+82	7.00	74.72	15.00	3.12	19	4	1	493	188	221
404+84	2.00	32.74	0.00	3.13	4	1	0	497	188	224
405+00	16.00	9.63	0.00	3.39	13	0	2	510	190	234
405+10	10.00	0.00	0.00	0.00	2	0	1	512	191	235
					512	86	153			

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	EXISTING PAVEMENT. NOT SHOWN IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	[(CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]

Continued



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 146	E

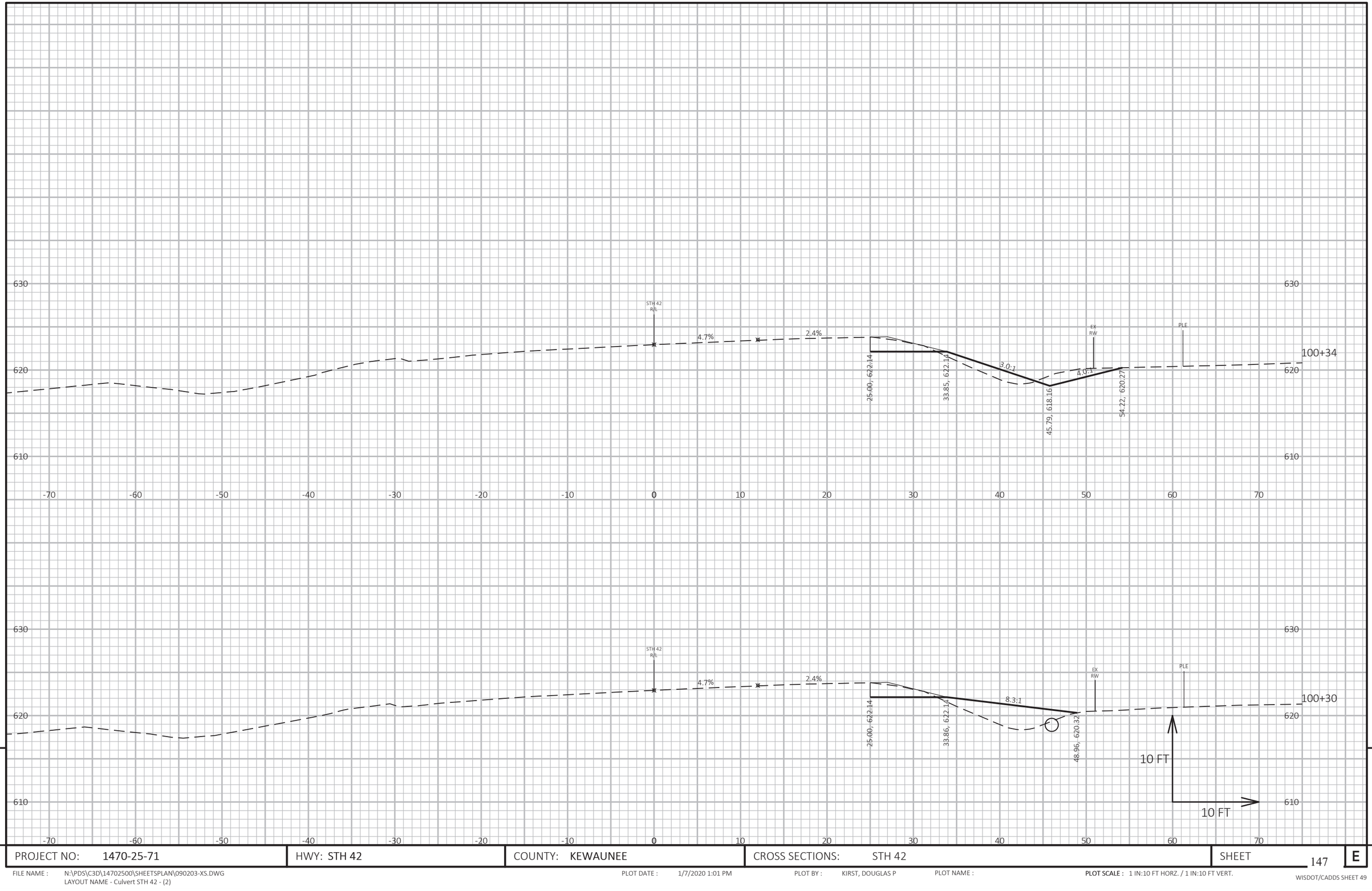
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - Culvert STH 42 - (1)

PLOT DATE : 1/7/2020 1:01 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 147	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - Culvert STH 42 - (2)

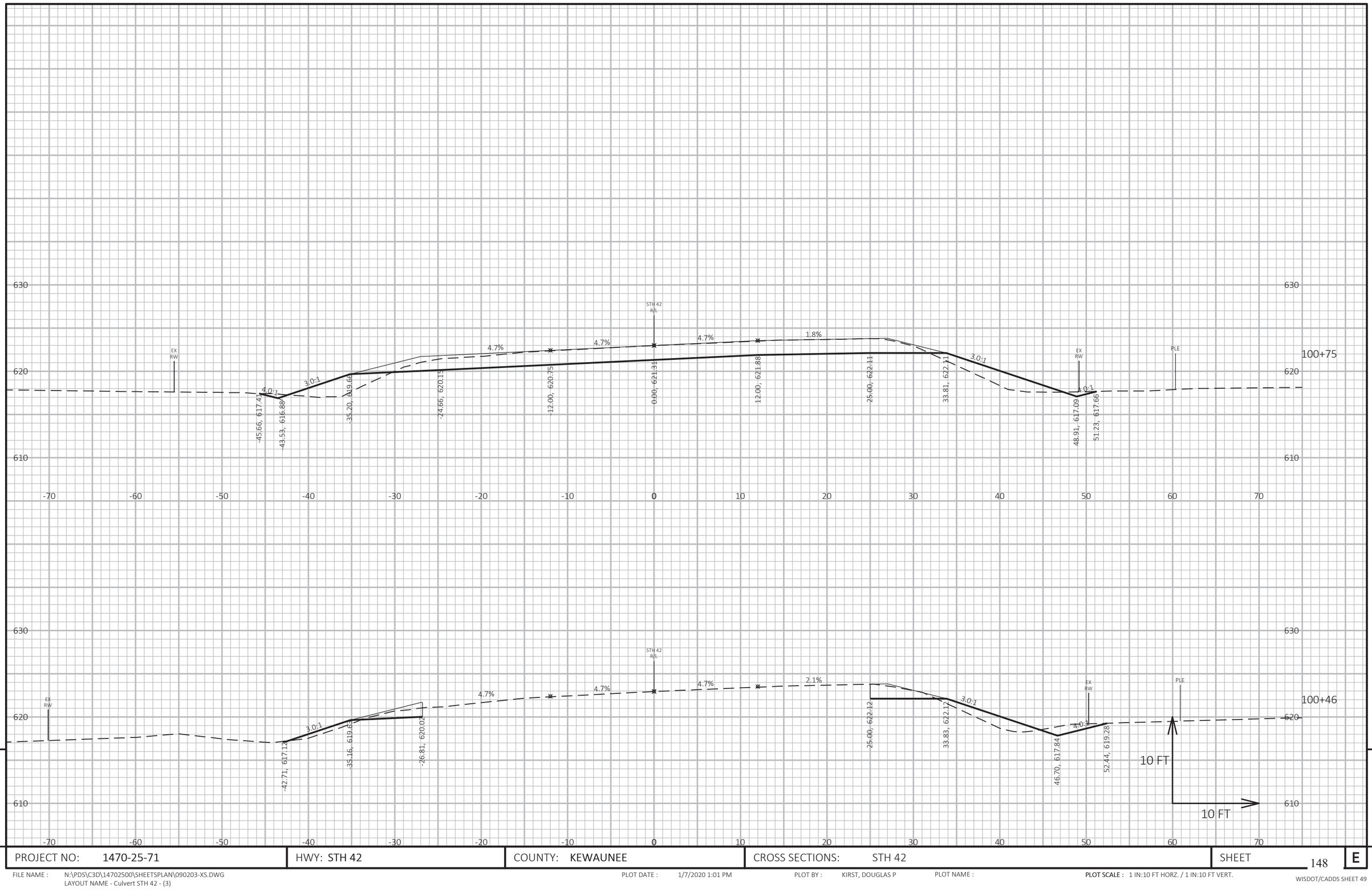
PLOT DATE : 1/7/2020 1:01 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



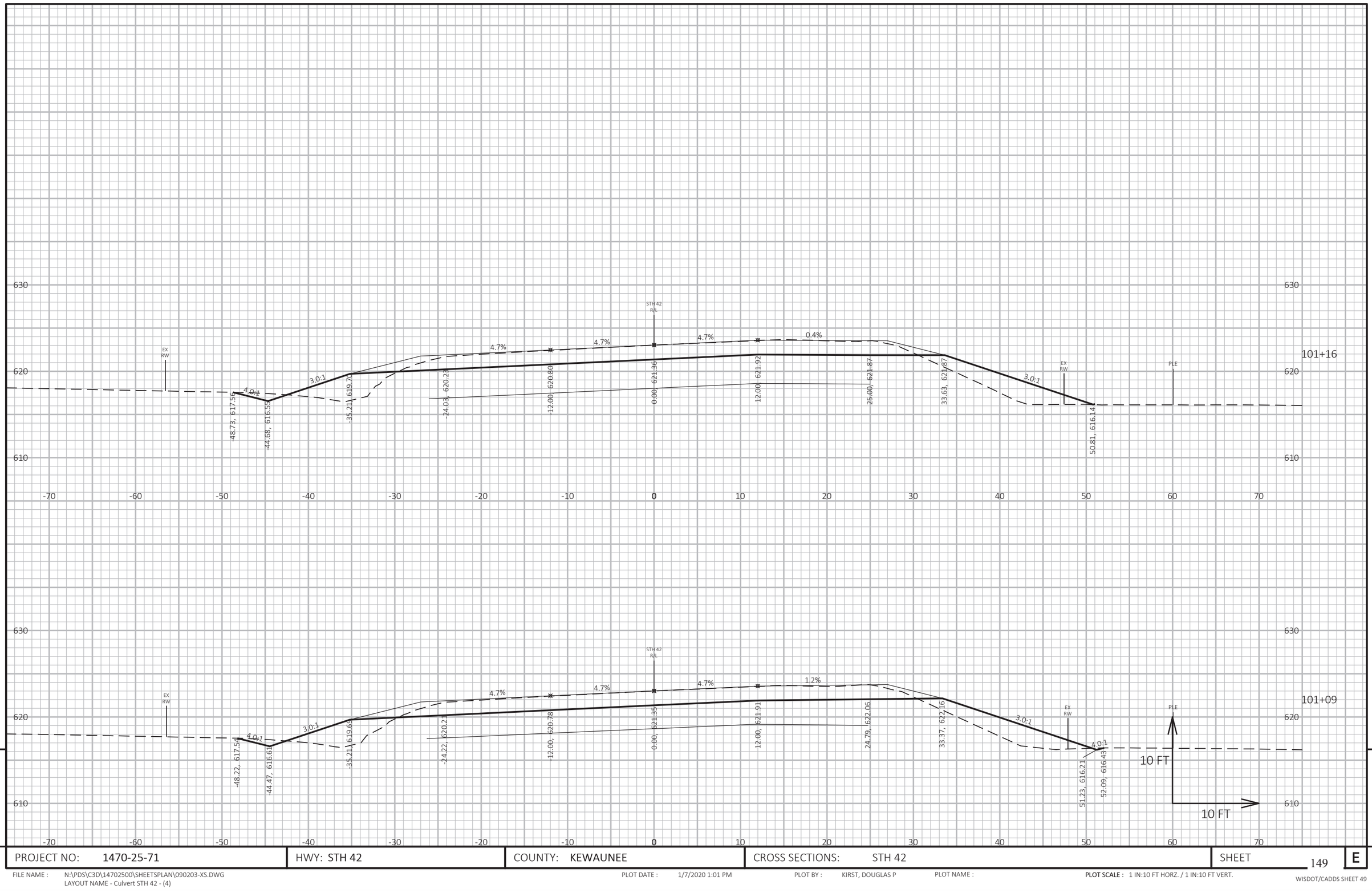
9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 148	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - Culvert STH 42 - (3)

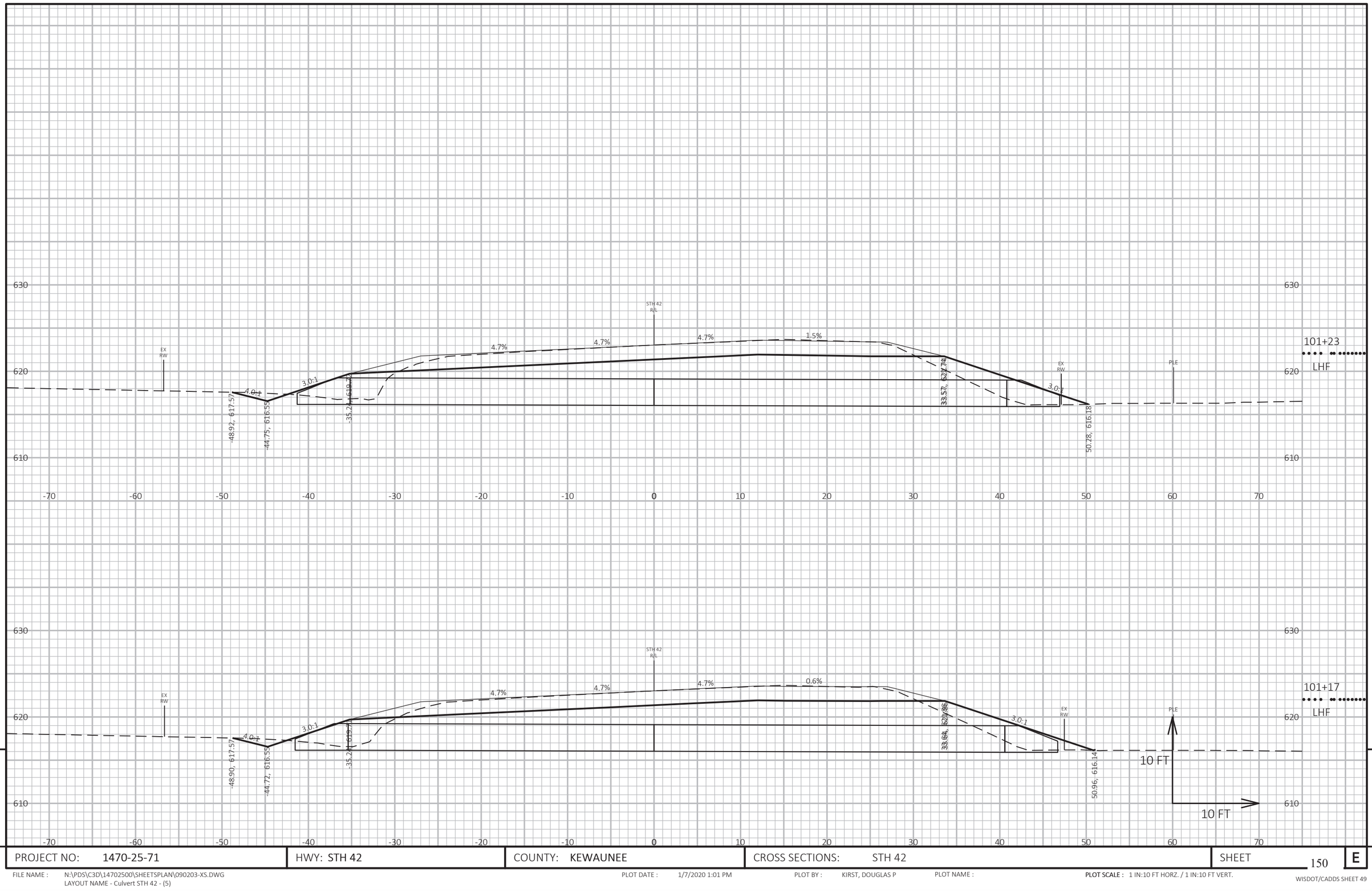
PLOT DATE : 1/7/2020 1:01 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 149	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - Culvert STH 42 - (4)

PLOT DATE : 1/7/2020 1:01 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 150	E

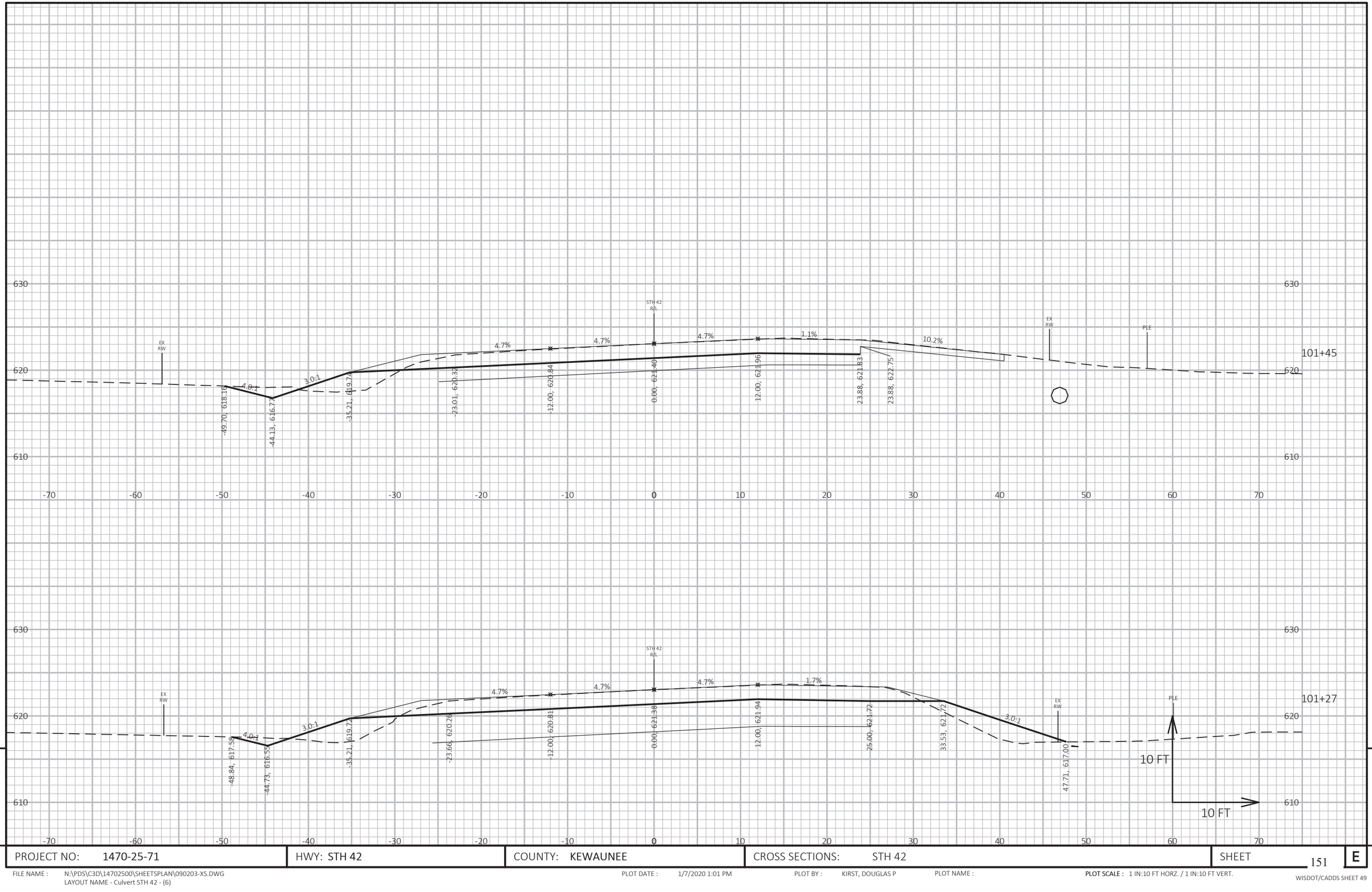
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - Culvert STH 42 - (5)

PLOT DATE : 1/7/2020 1:01 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 151	E

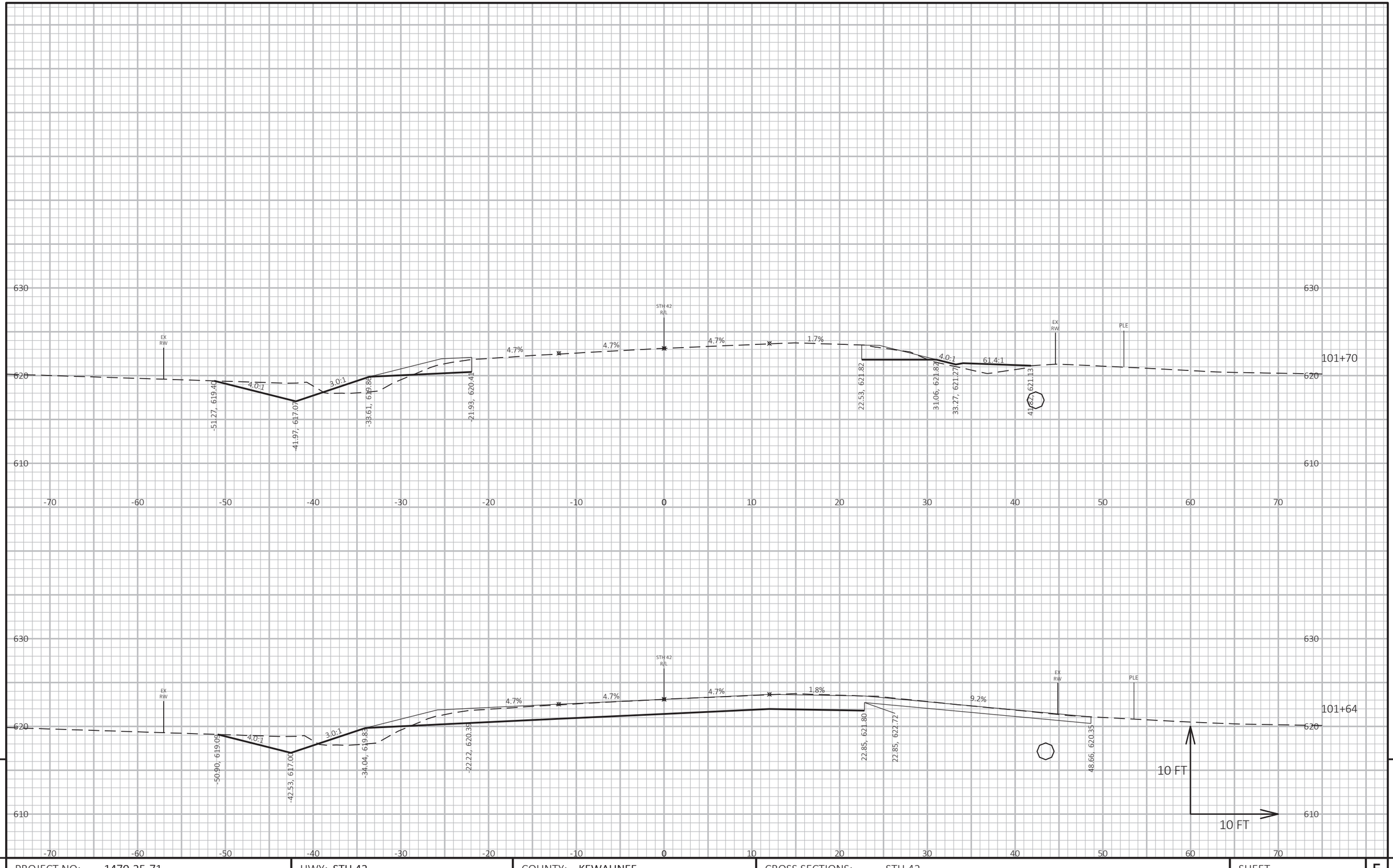
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - Culvert STH 42 - (6)

PLOT DATE : 1/7/2020 1:01 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 152	E

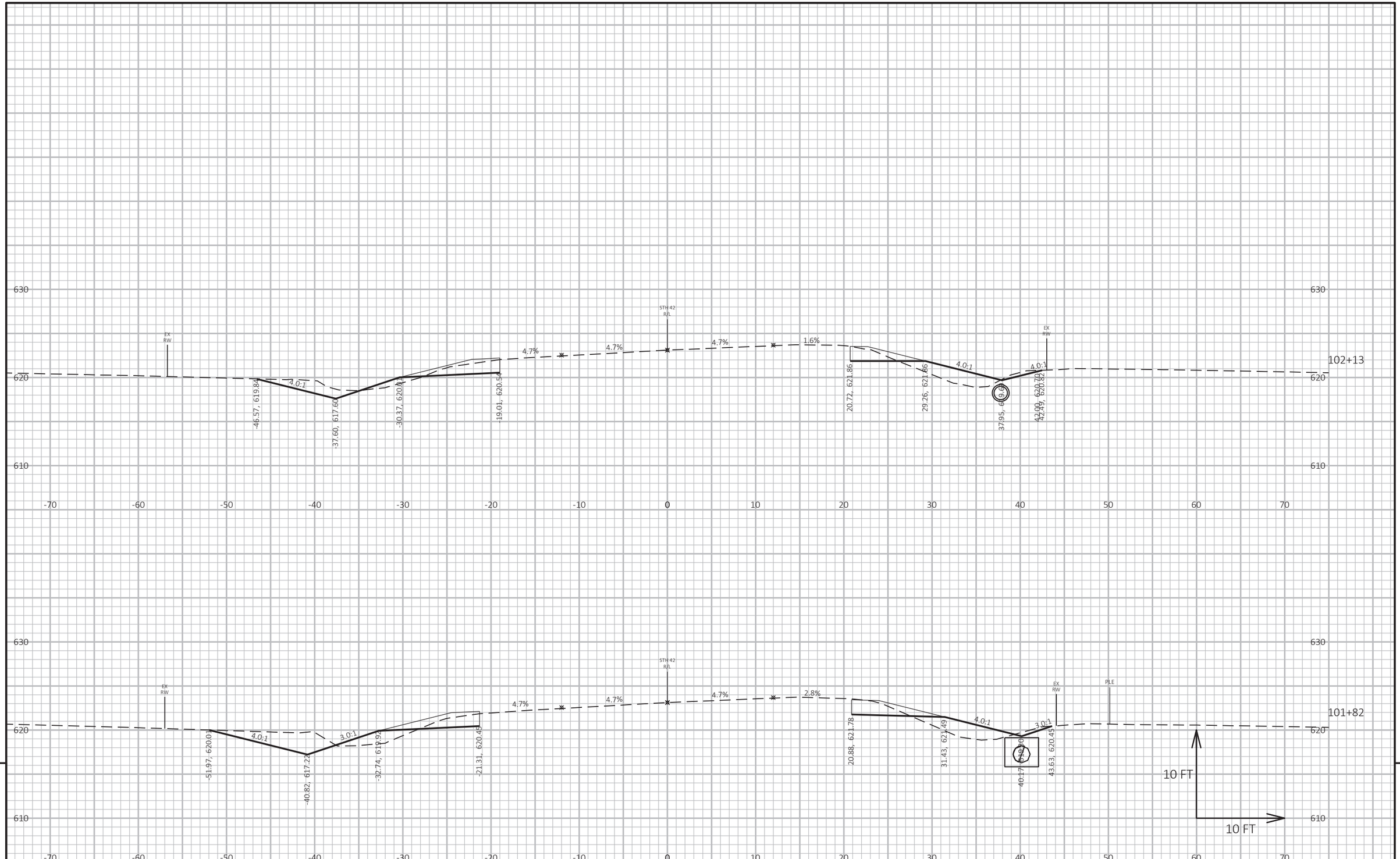
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - Culvert STH 42 - (7)

PLOT DATE : 1/7/2020 1:01 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

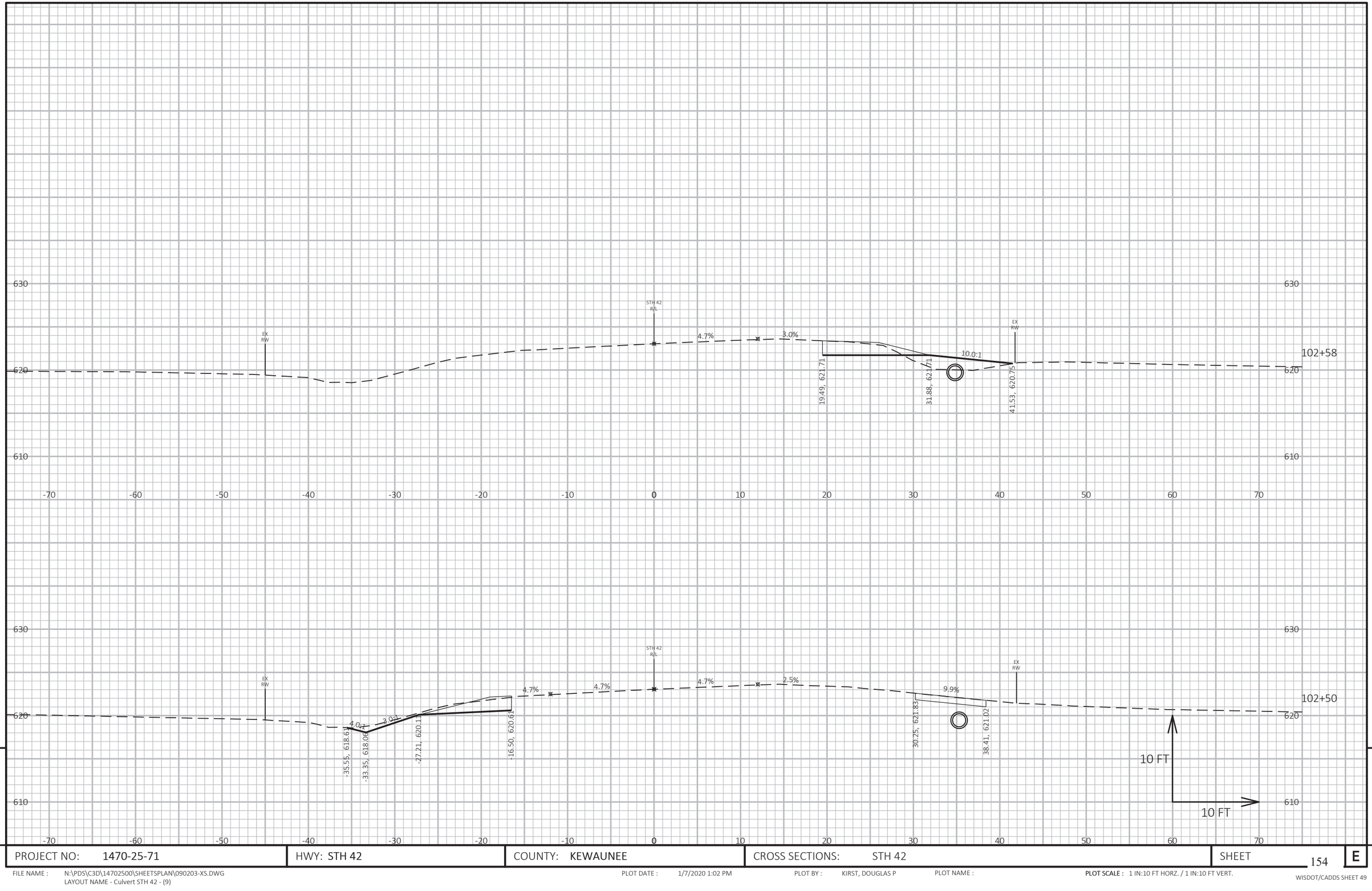
9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 153	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - Culvert STH 42 - (8)

PLOT DATE : 1/7/2020 1:01 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 154	E

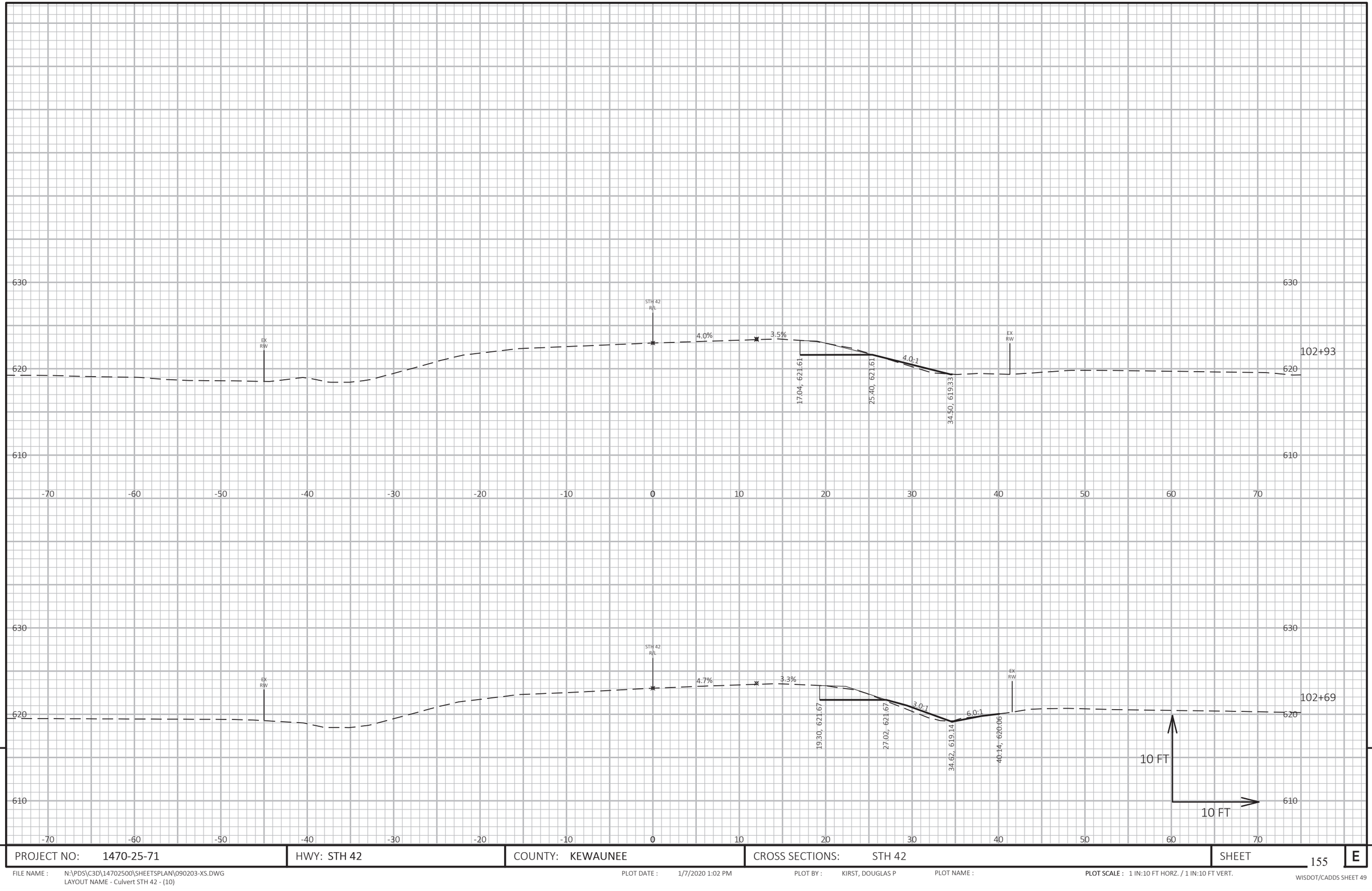
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - Culvert STH 42 - (9)

PLOT DATE : 1/7/2020 1:02 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 155	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - Culvert STH 42 - (10)

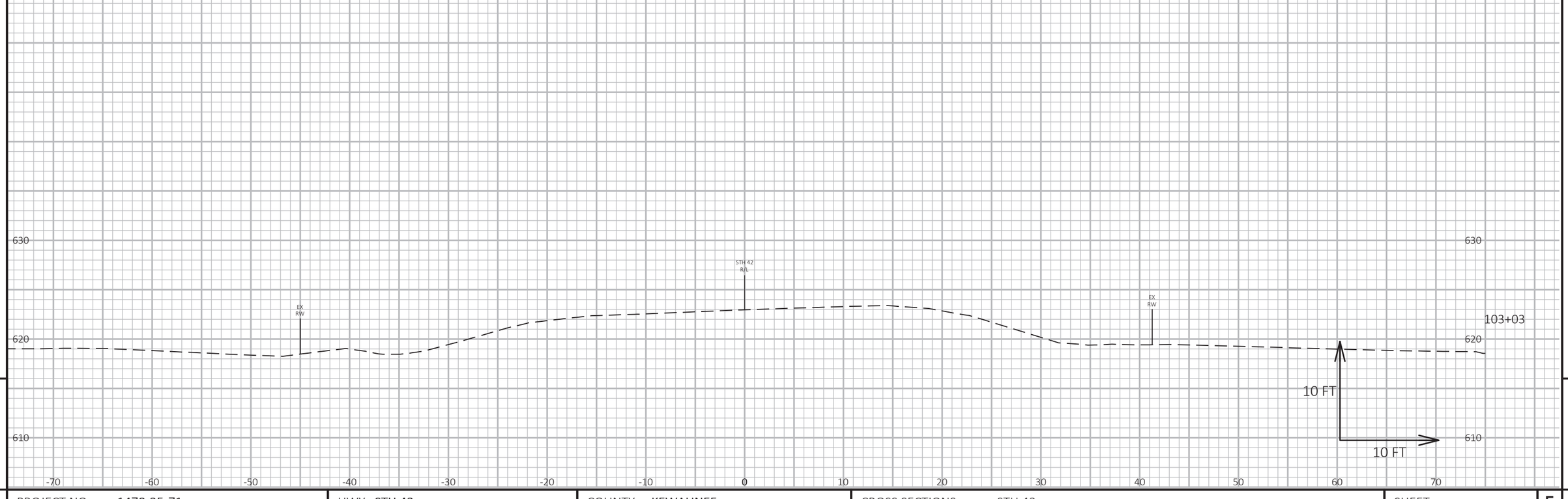
PLOT DATE : 1/7/2020 1:02 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 156	E

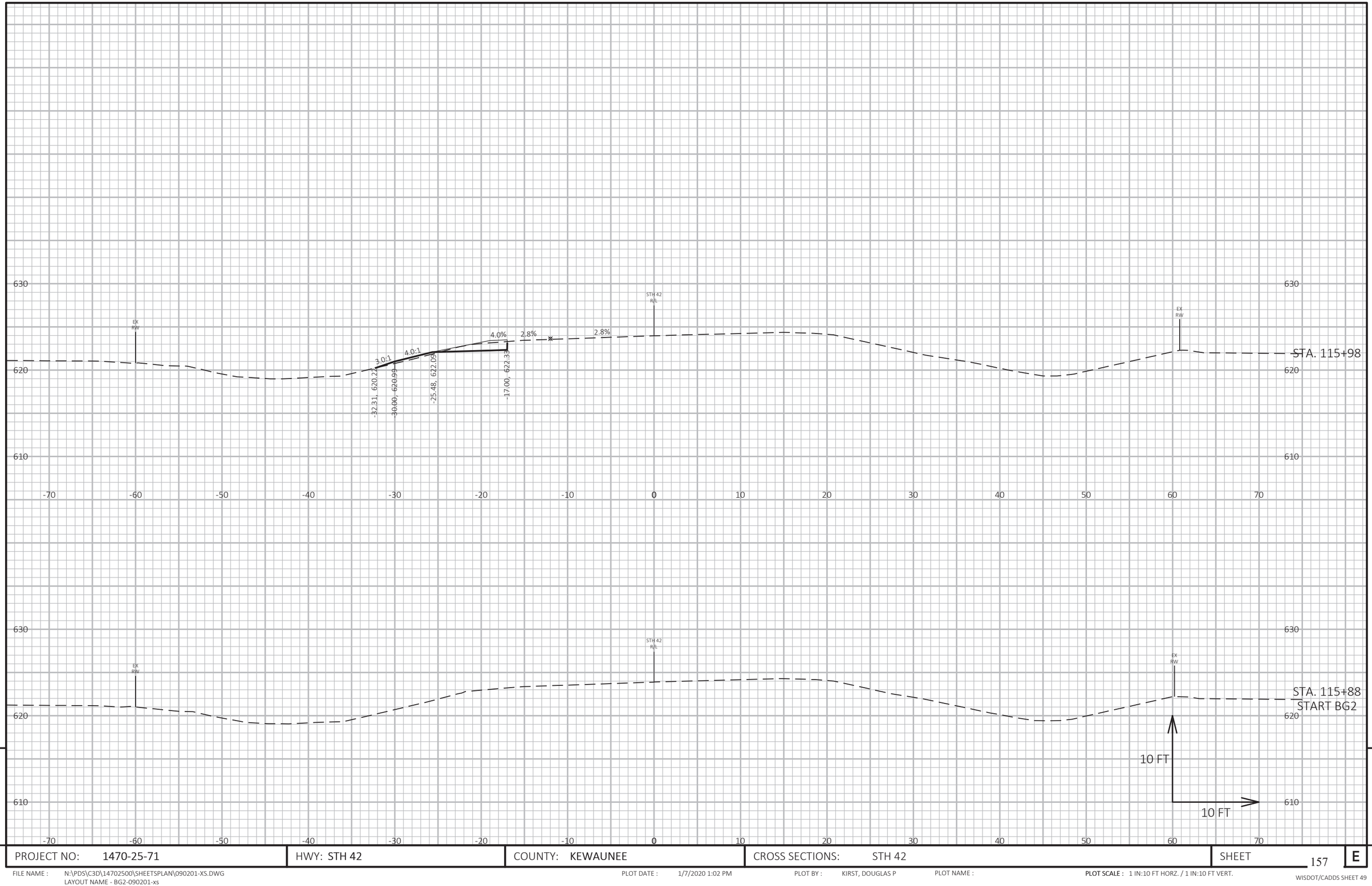
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - LAst

PLOT DATE : 1/7/2020 1:02 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 157	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090201-xs

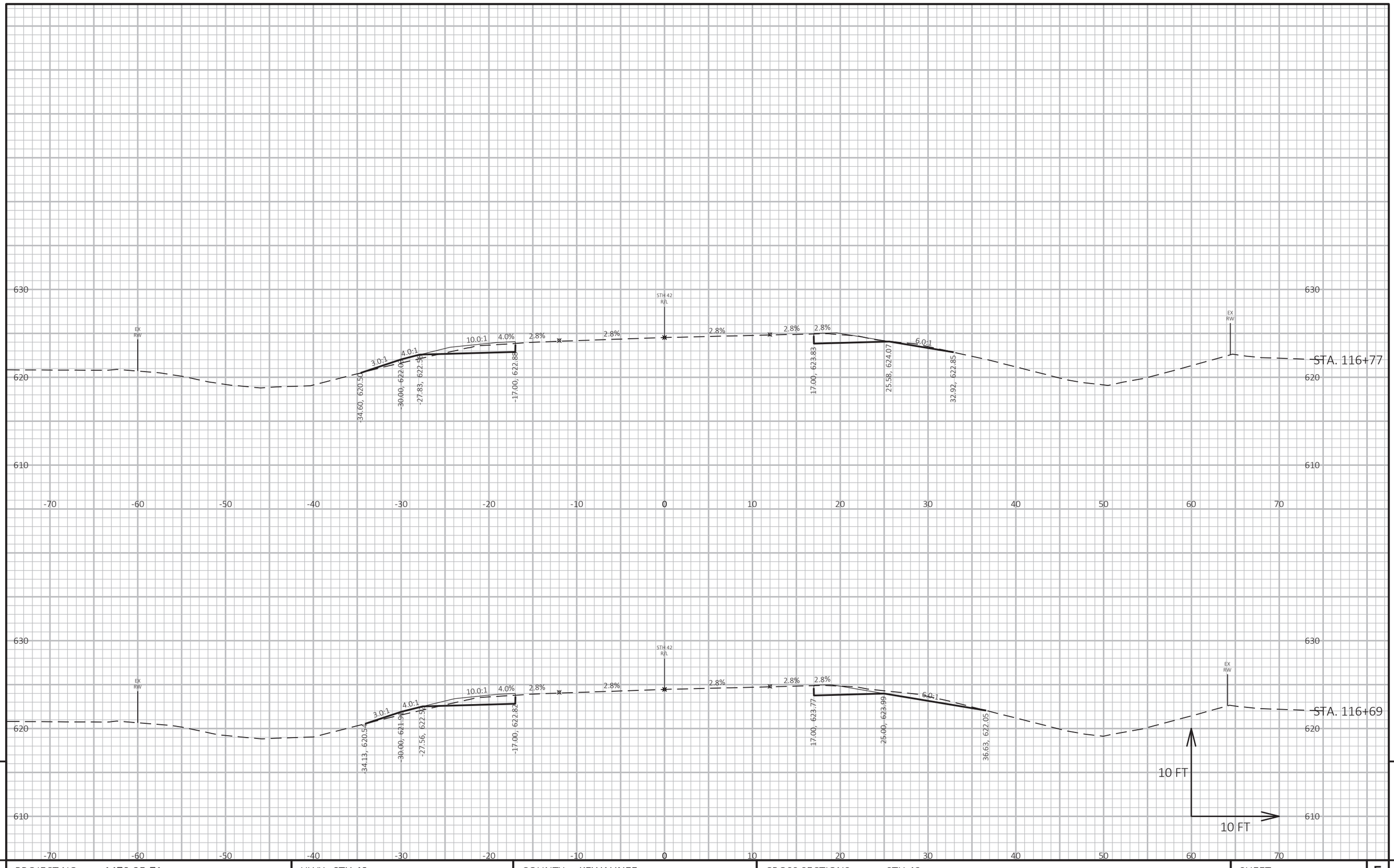
PLOT DATE : 1/7/2020 1:02 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 158	E

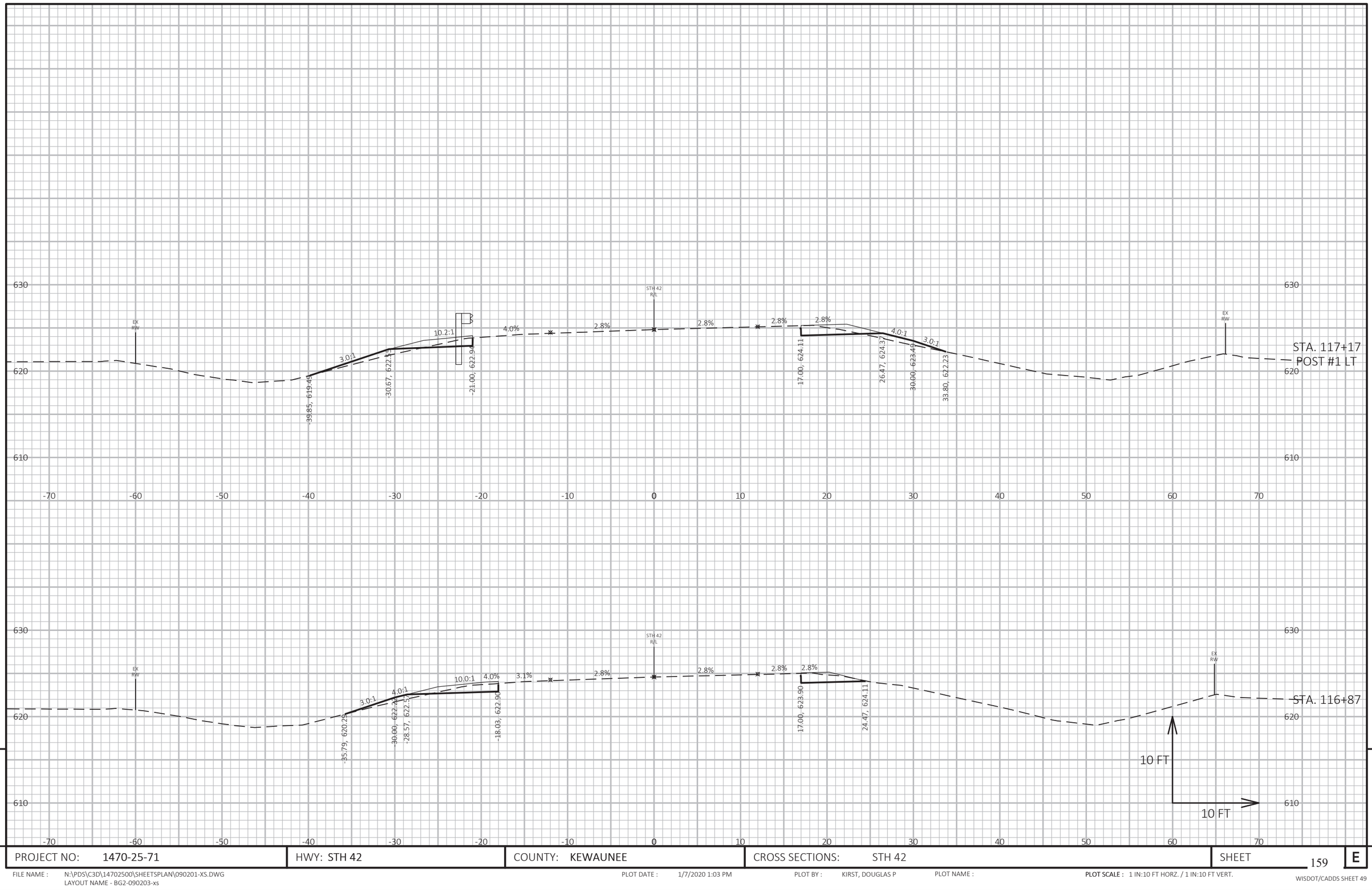
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090202-xs

PLOT DATE : 1/7/2020 1:02 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 159	E

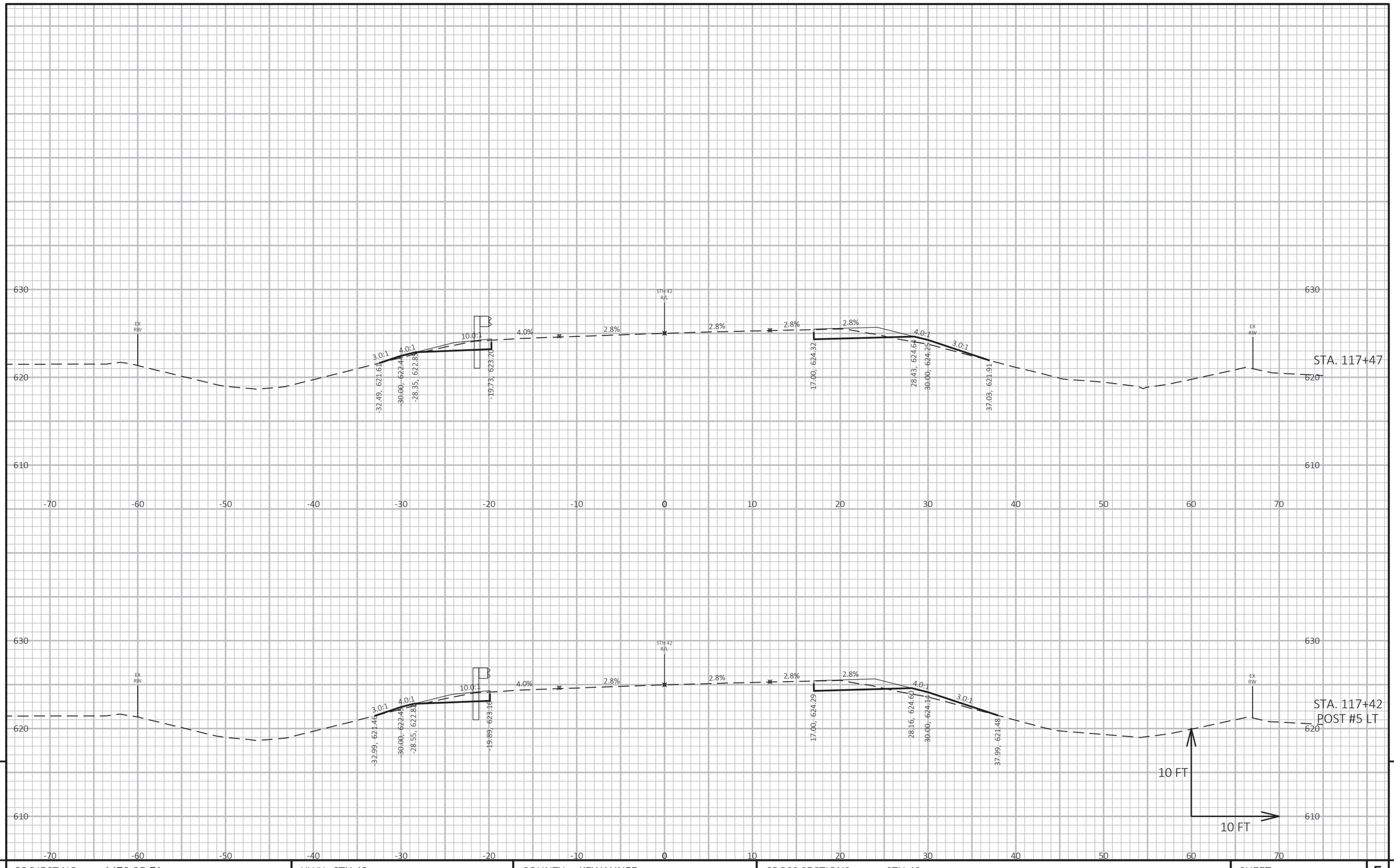
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090203-xs

PLOT DATE : 1/7/2020 1:03 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 160	E

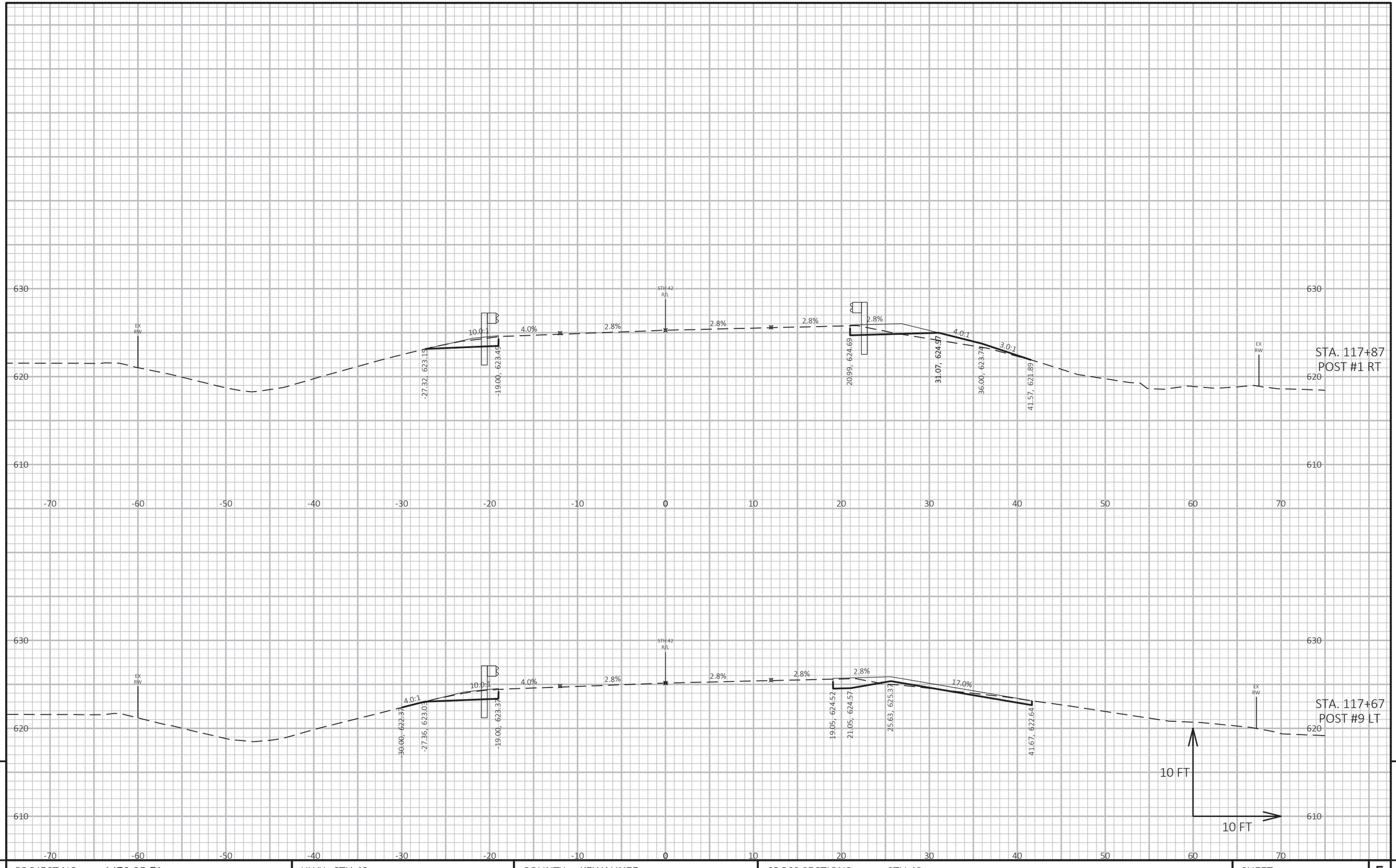
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090204-xs

PLOT DATE : 1/7/2020 1:03 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 161	E

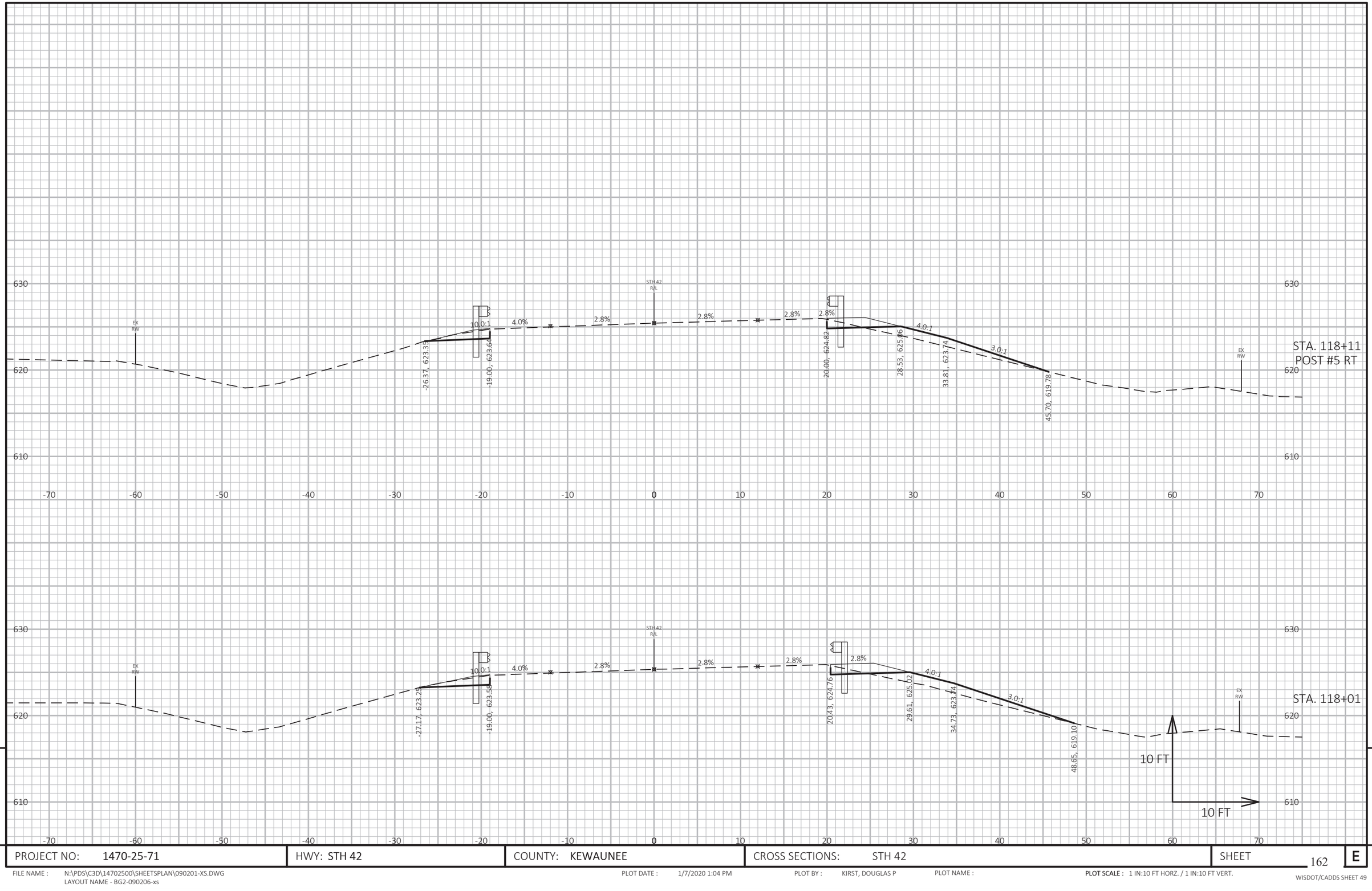
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090205-xs

PLOT DATE : 1/7/2020 1:03 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 162	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090206-xs

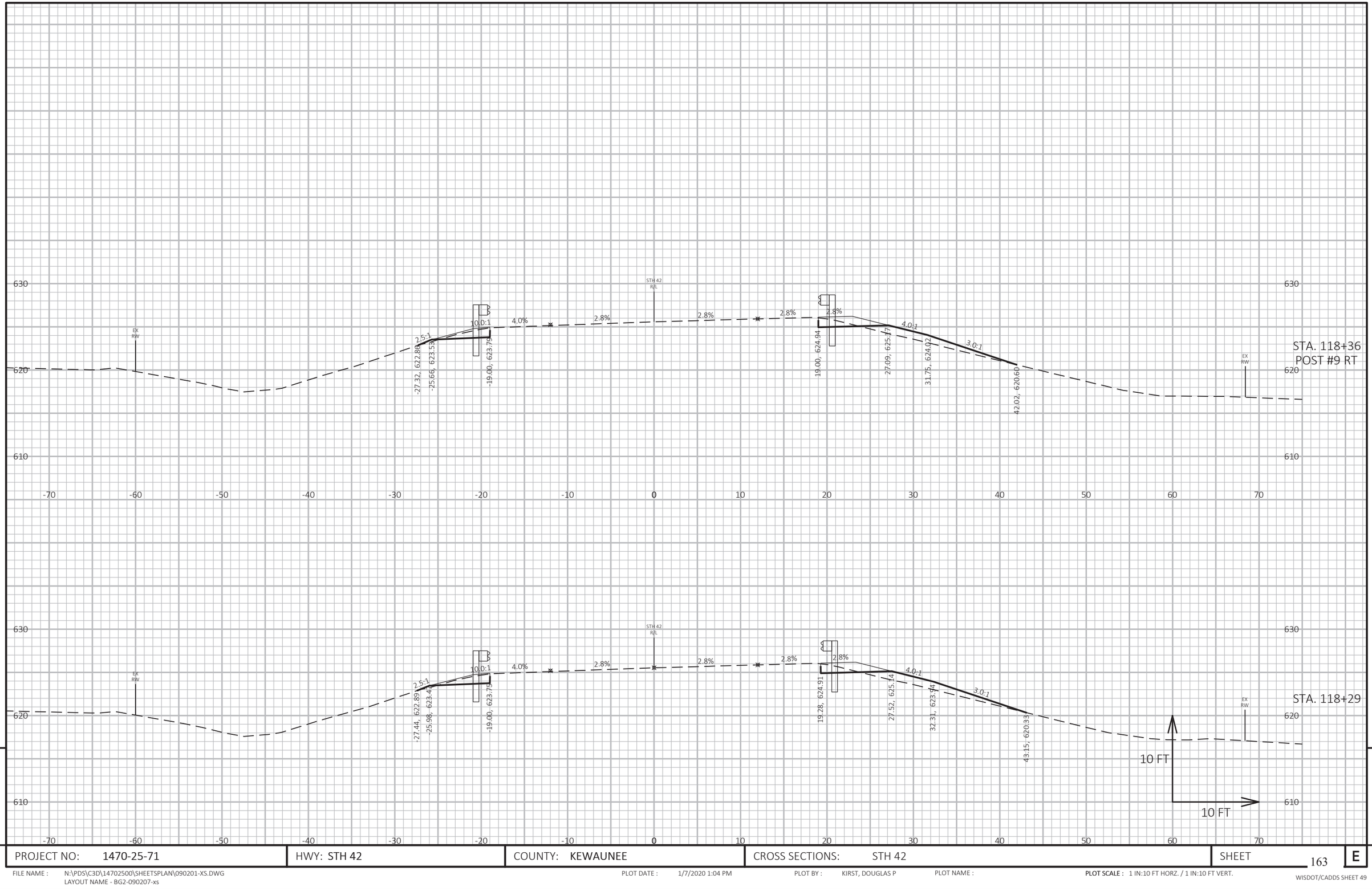
PLOT DATE : 1/7/2020 1:04 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 163	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090207-xs

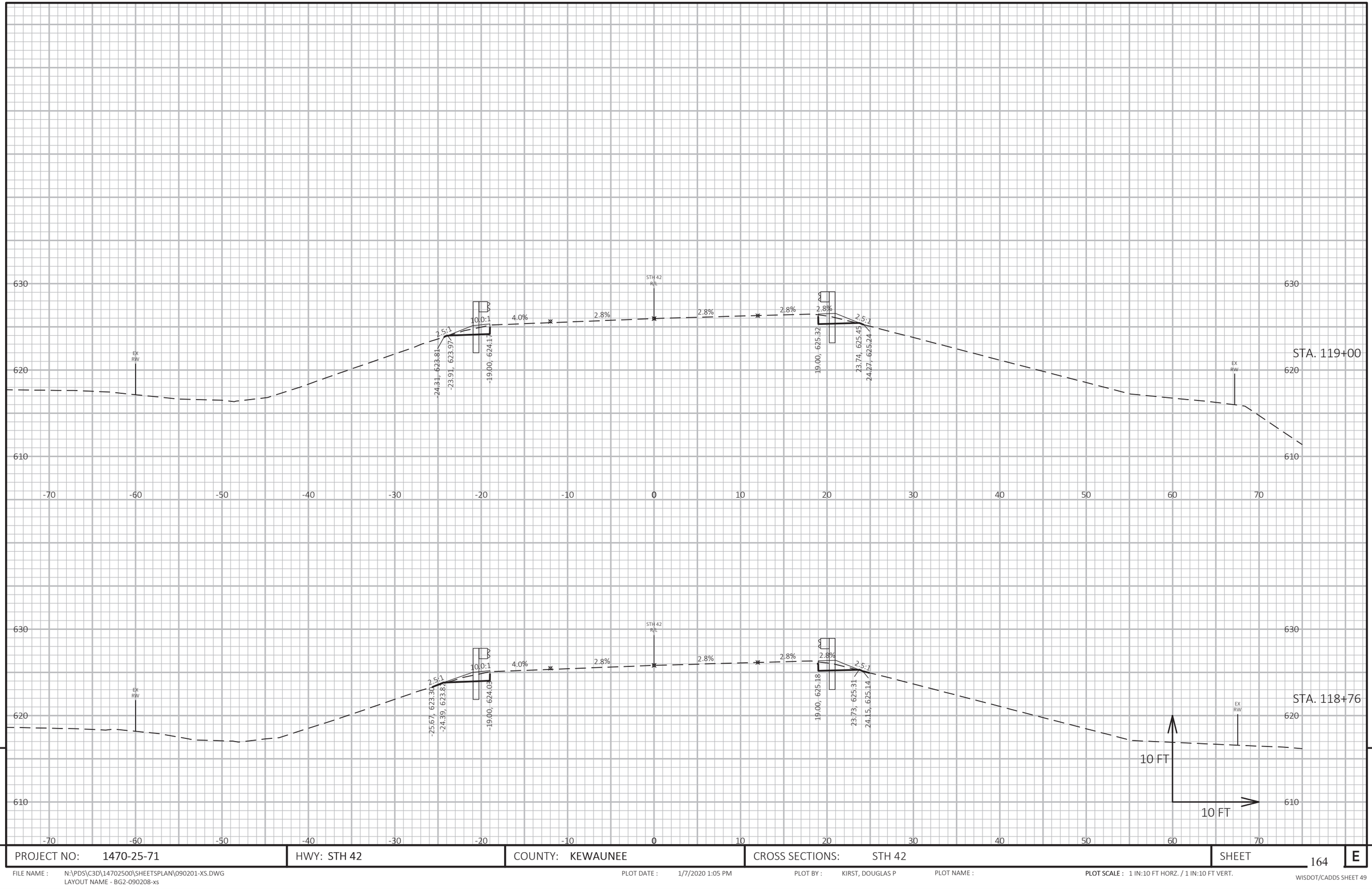
PLOT DATE : 1/7/2020 1:04 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 164	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090208-xs

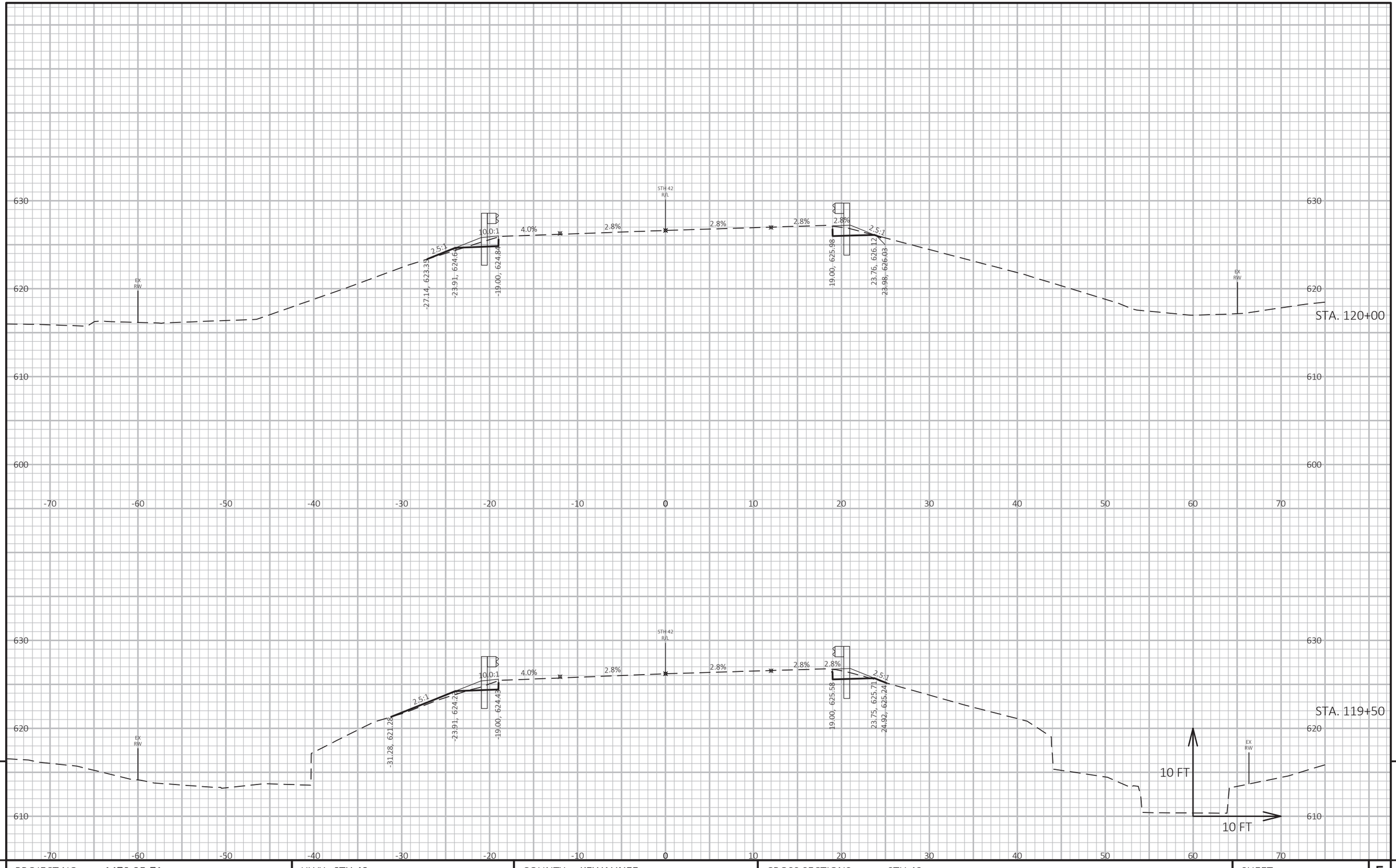
PLOT DATE : 1/7/2020 1:05 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 165	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090209-xs

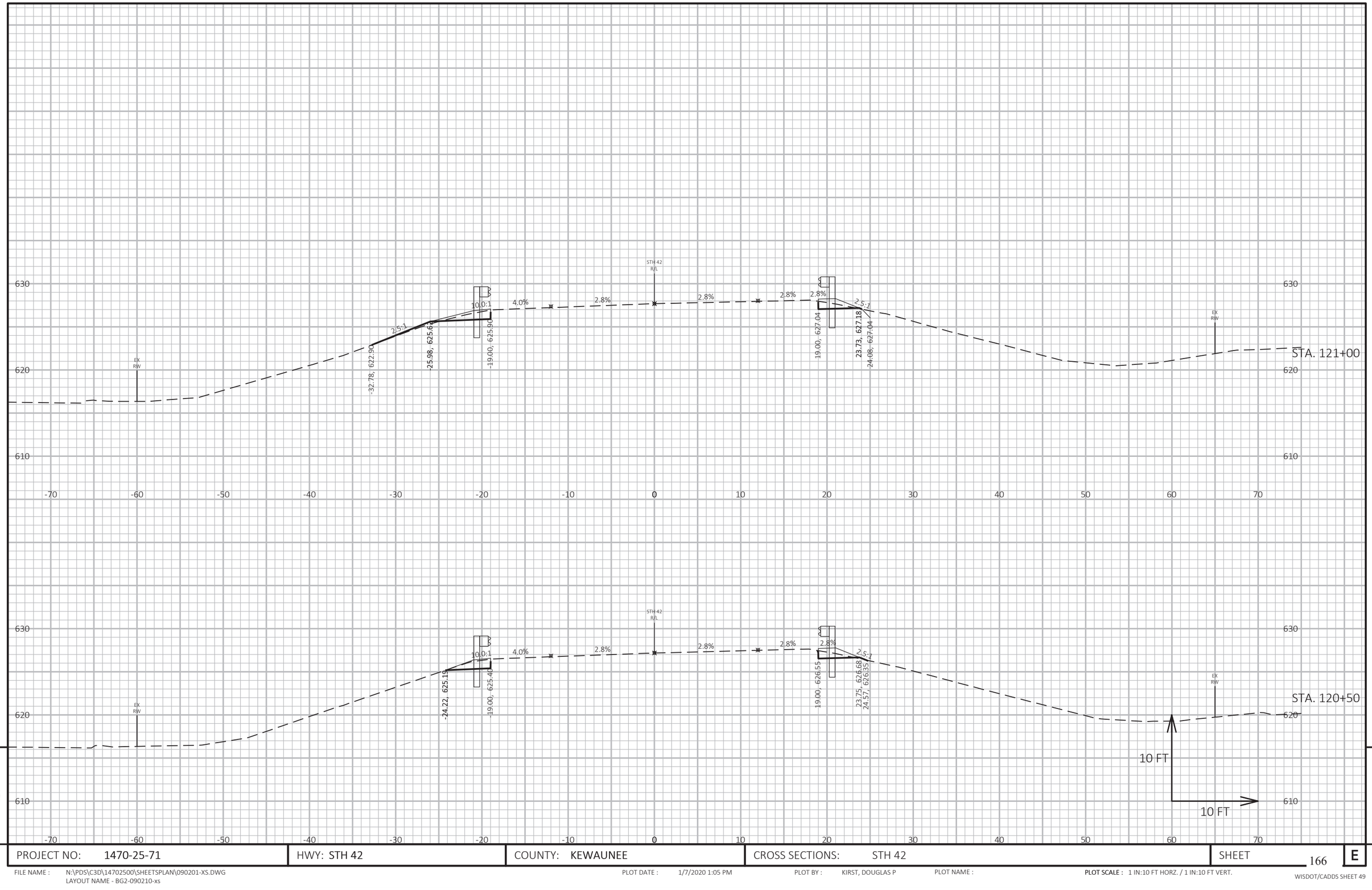
PLOT DATE : 1/7/2020 1:05 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 166	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090210-xs

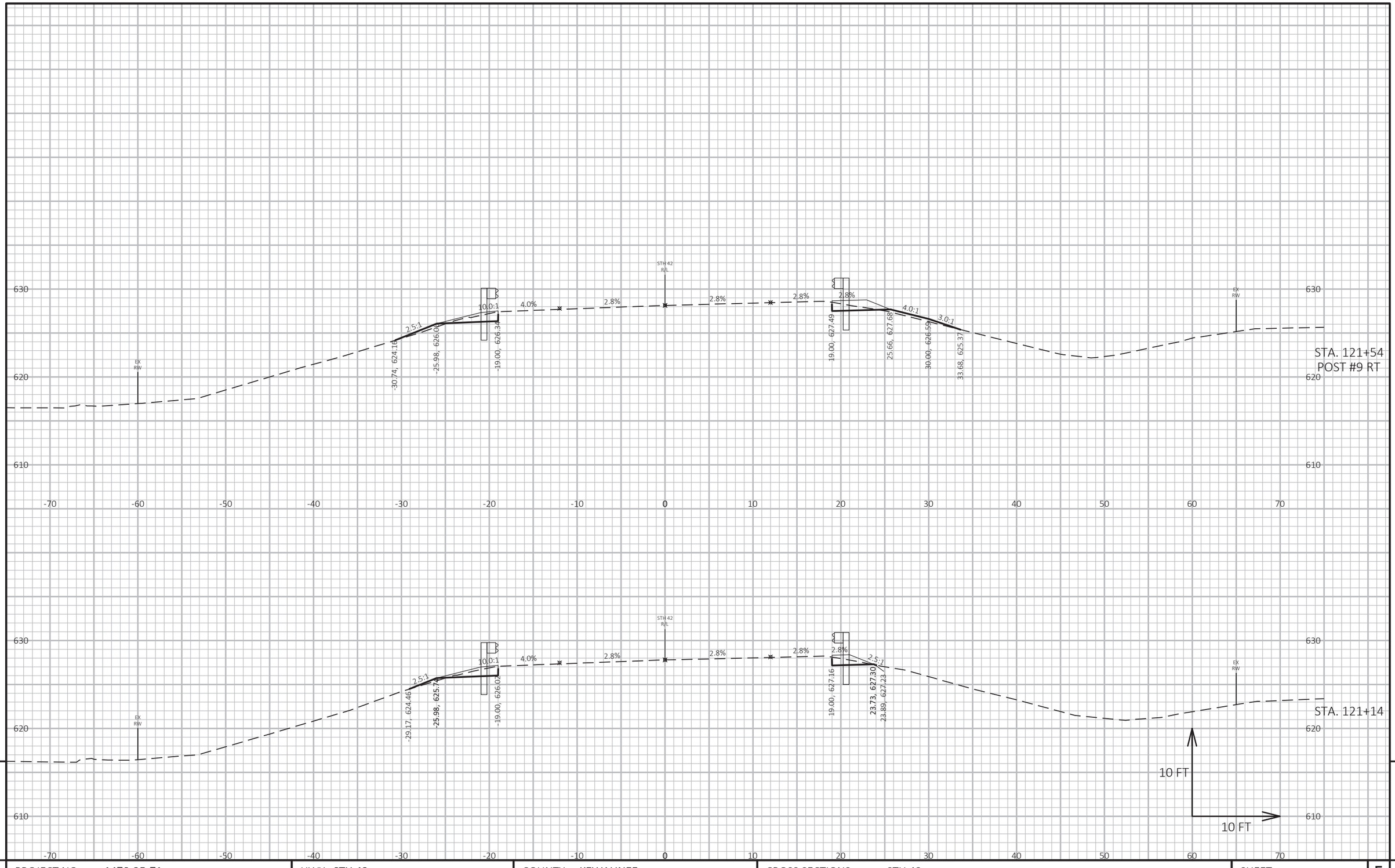
PLOT DATE : 1/7/2020 1:05 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 167	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090211-xs

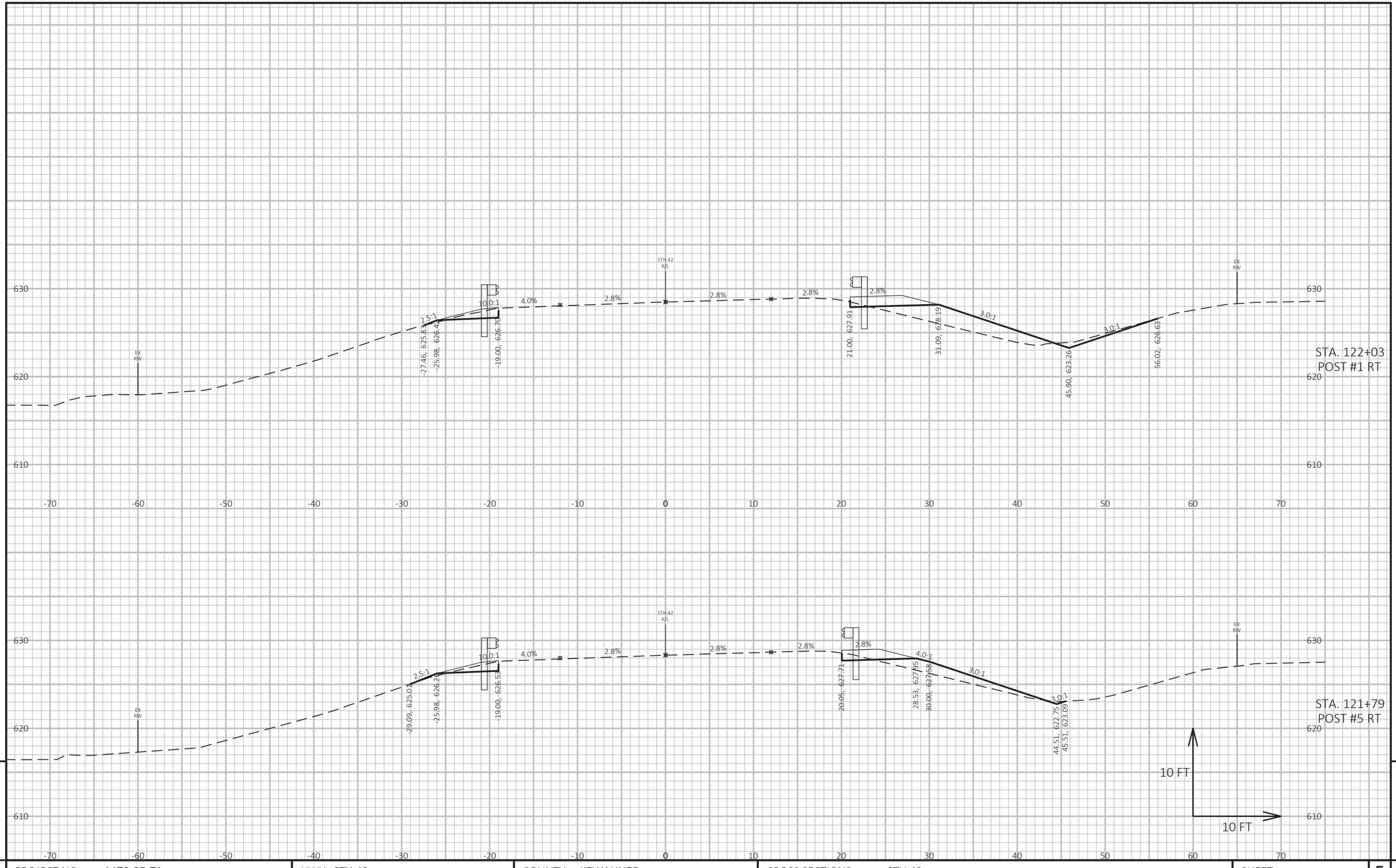
PLOT DATE : 1/7/2020 1:06 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 168	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090212-xs

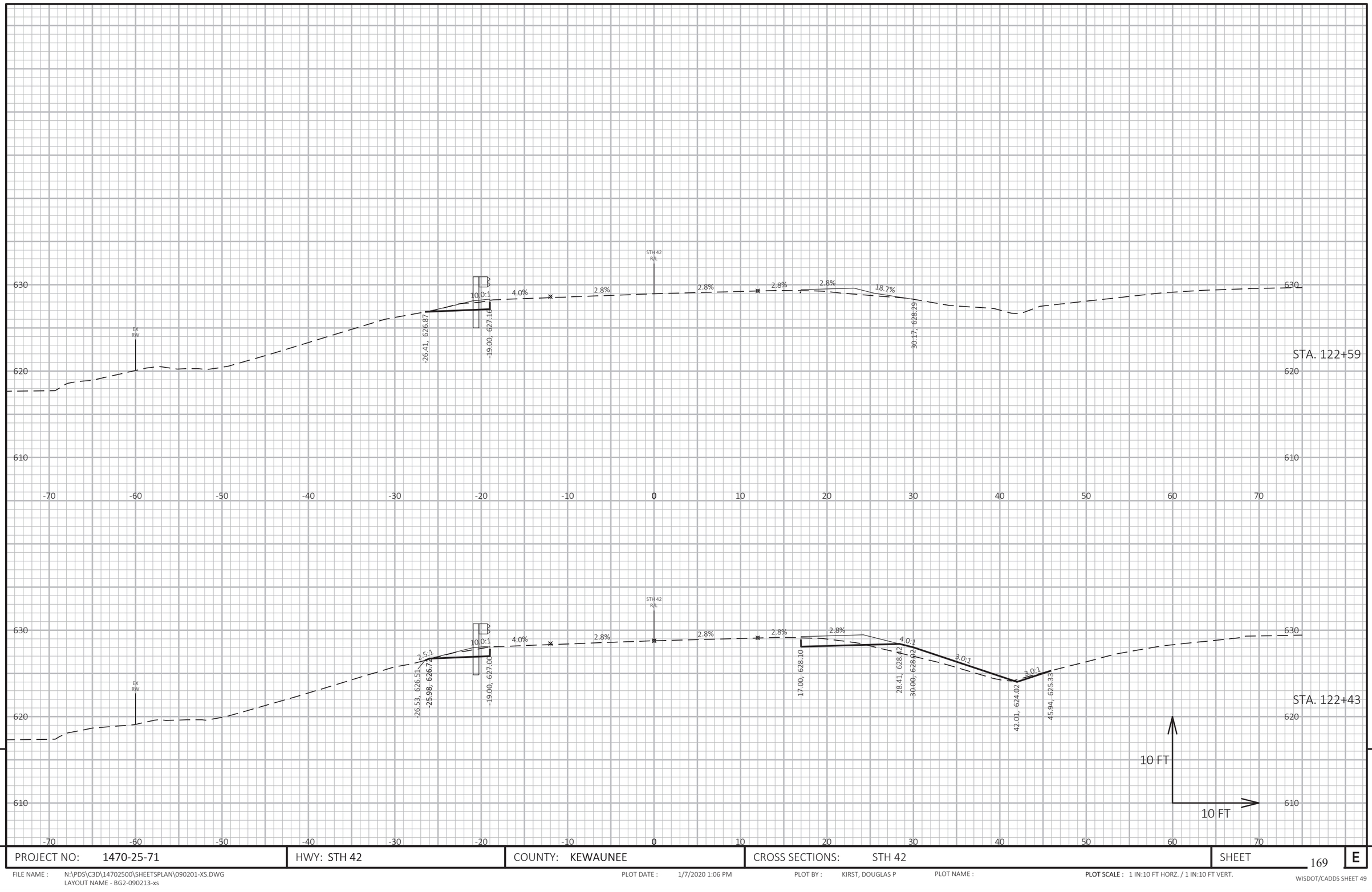
PLOT DATE : 1/7/2020 1:06 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 169	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090213-xs

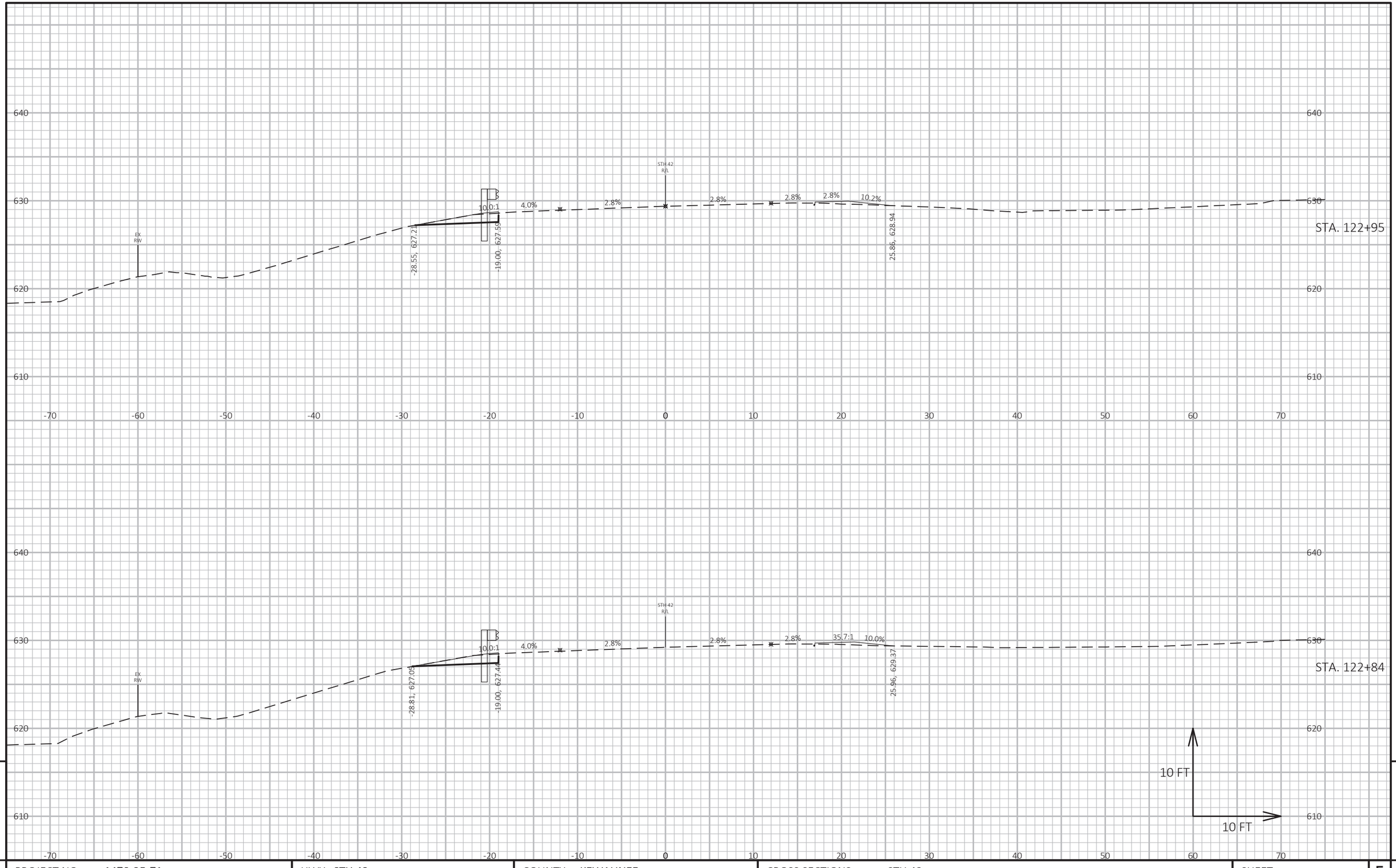
PLOT DATE : 1/7/2020 1:06 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 170	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090214-xs

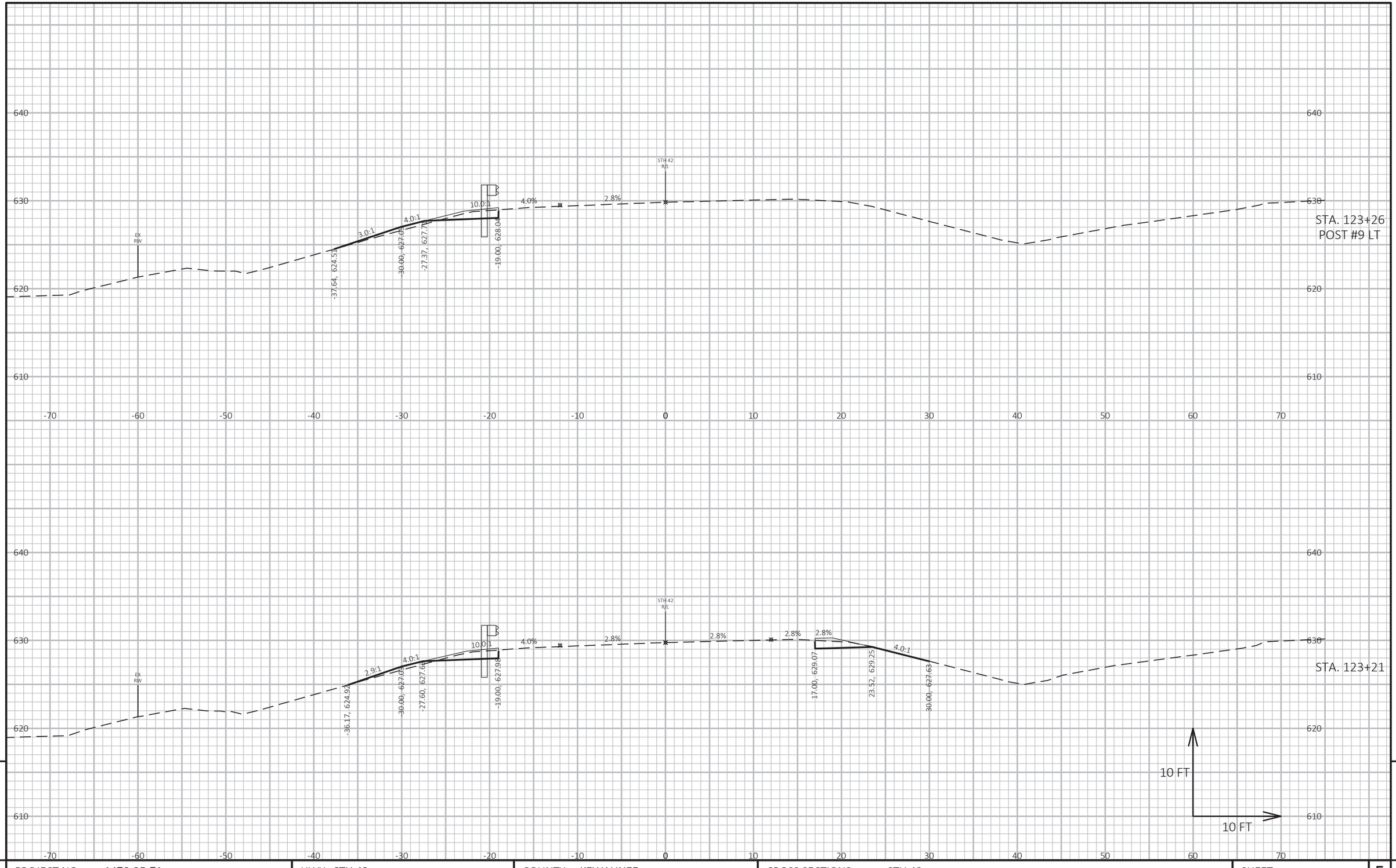
PLOT DATE : 1/7/2020 1:07 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 171	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090215-xs

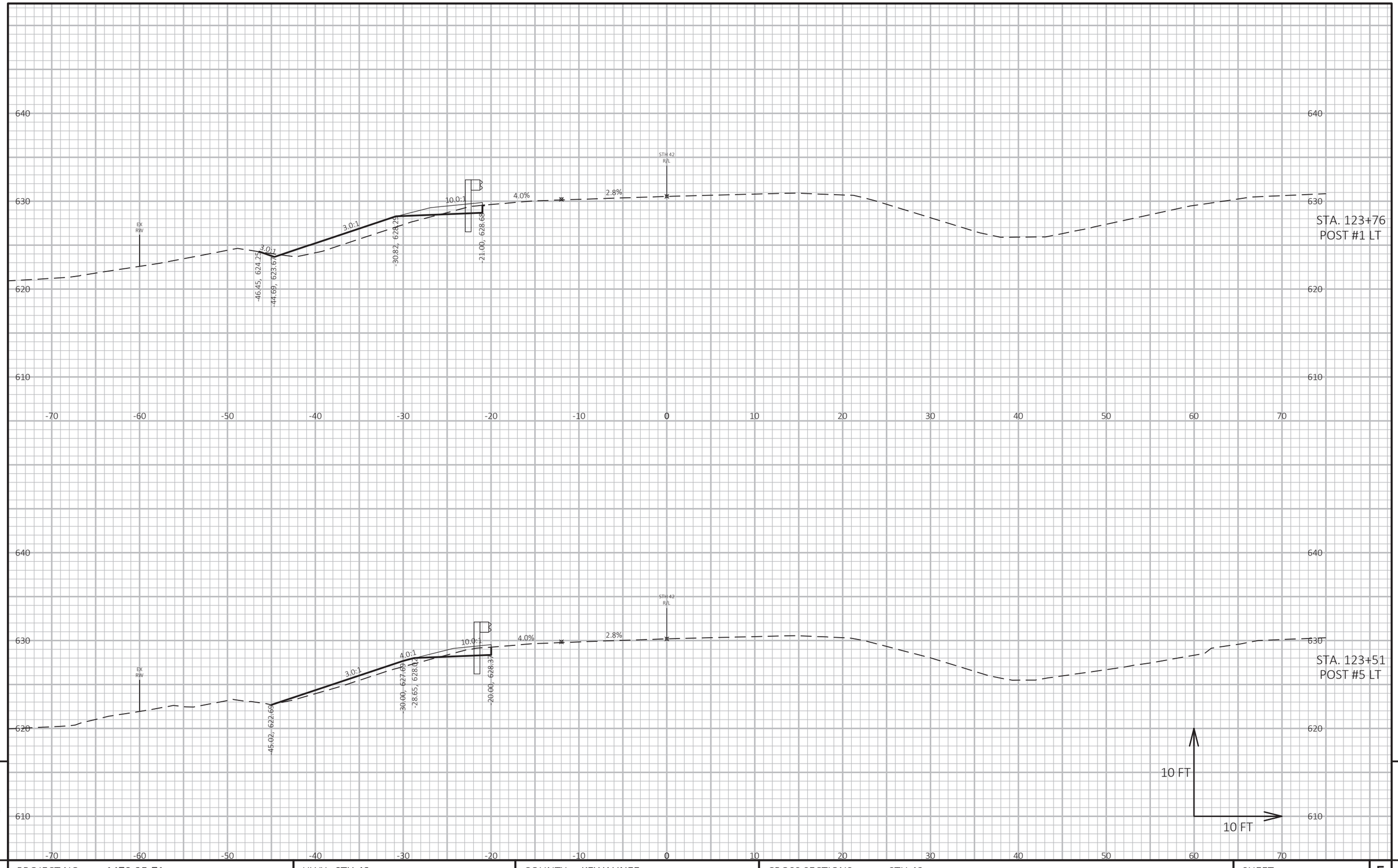
PLOT DATE : 1/7/2020 1:07 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 172	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090216-xs

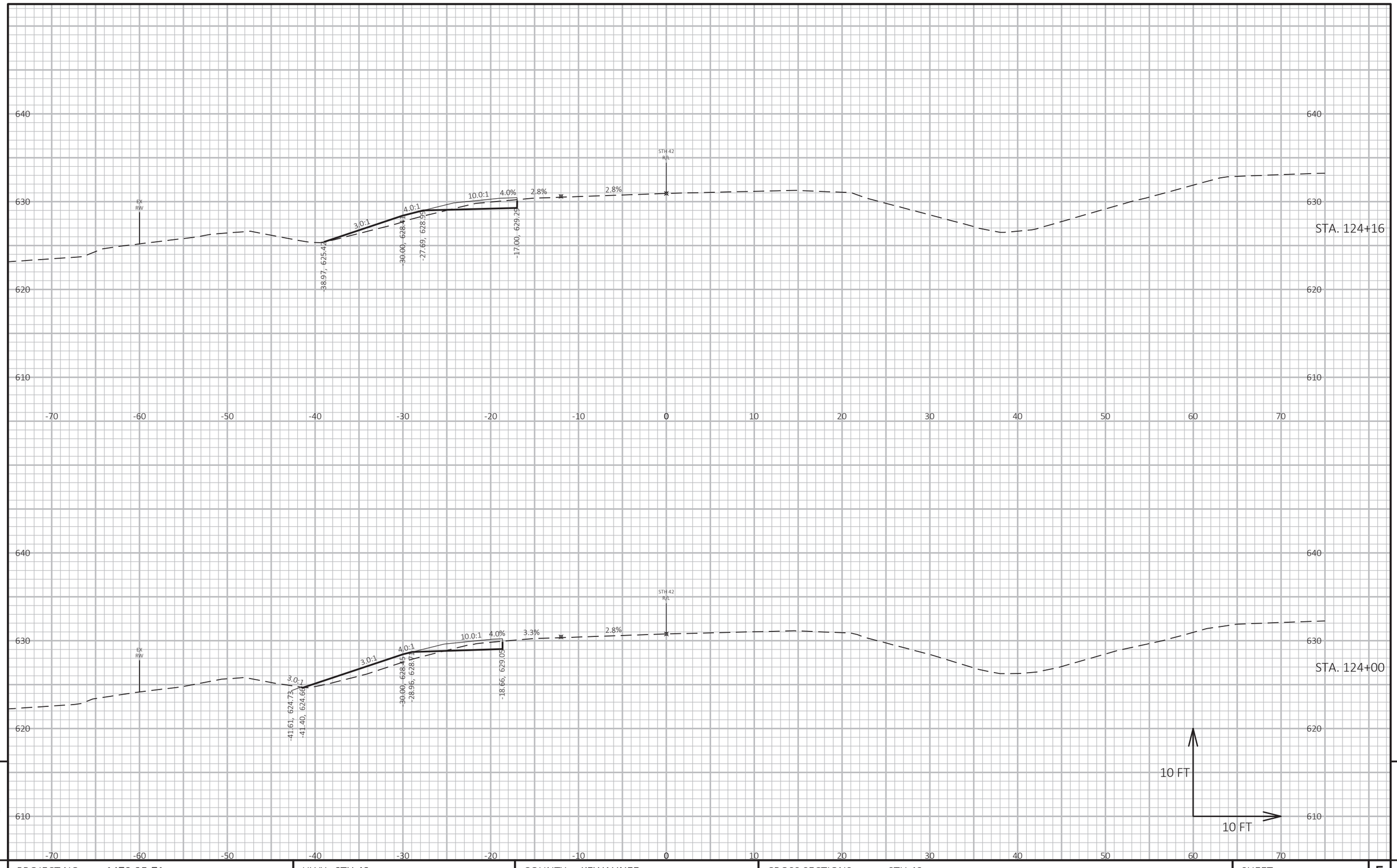
PLOT DATE : 1/7/2020 1:07 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 173	E

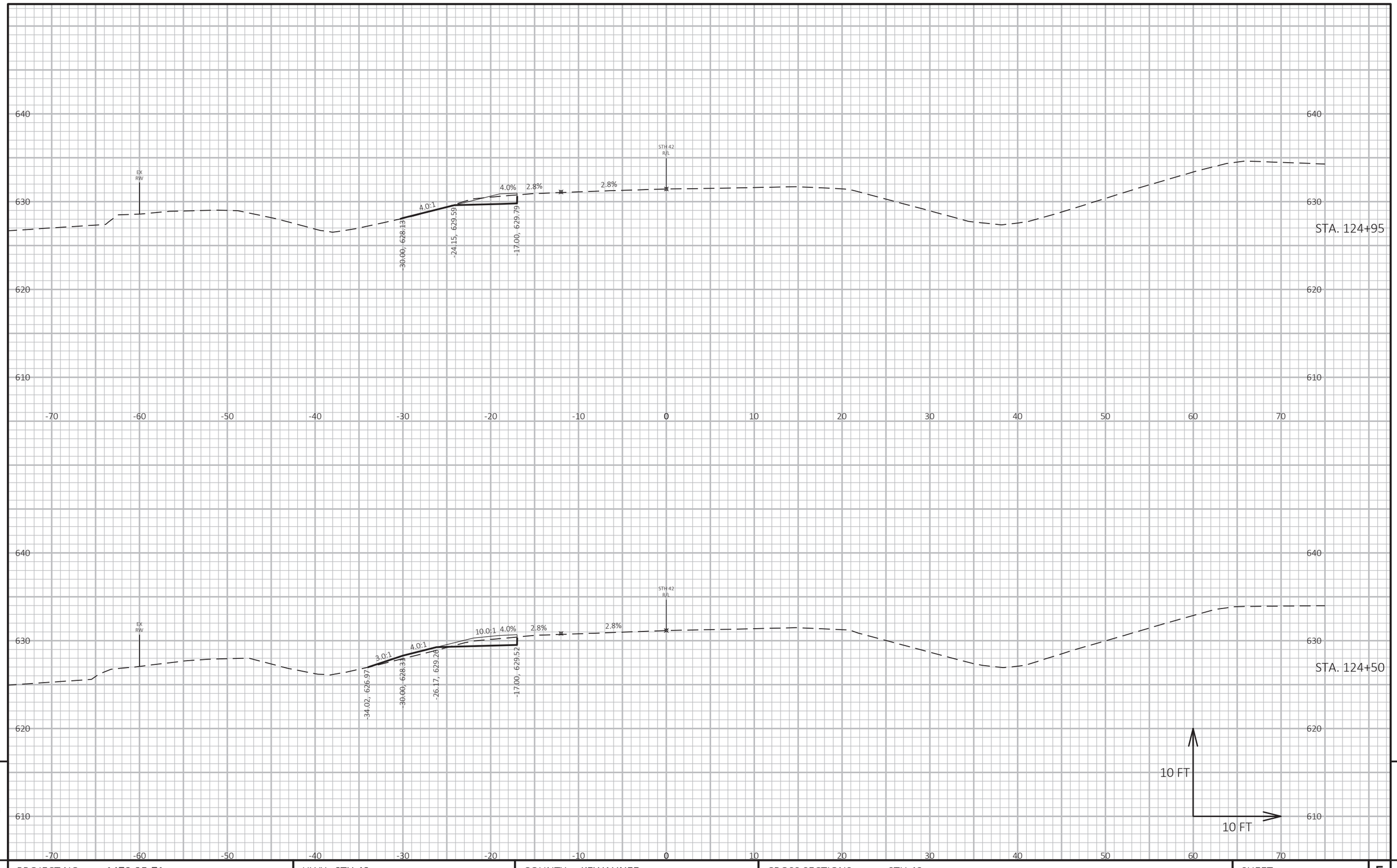
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090217-xs

PLOT DATE : 1/7/2020 1:08 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 174	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090218-xs

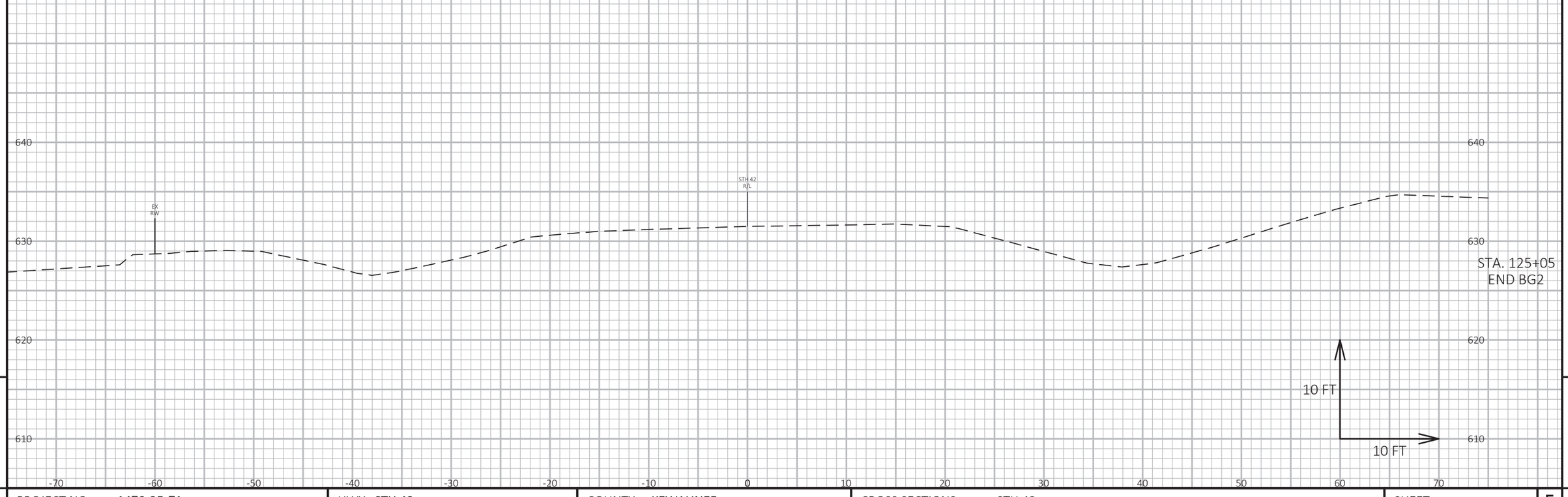
PLOT DATE : 1/7/2020 1:08 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 175	E

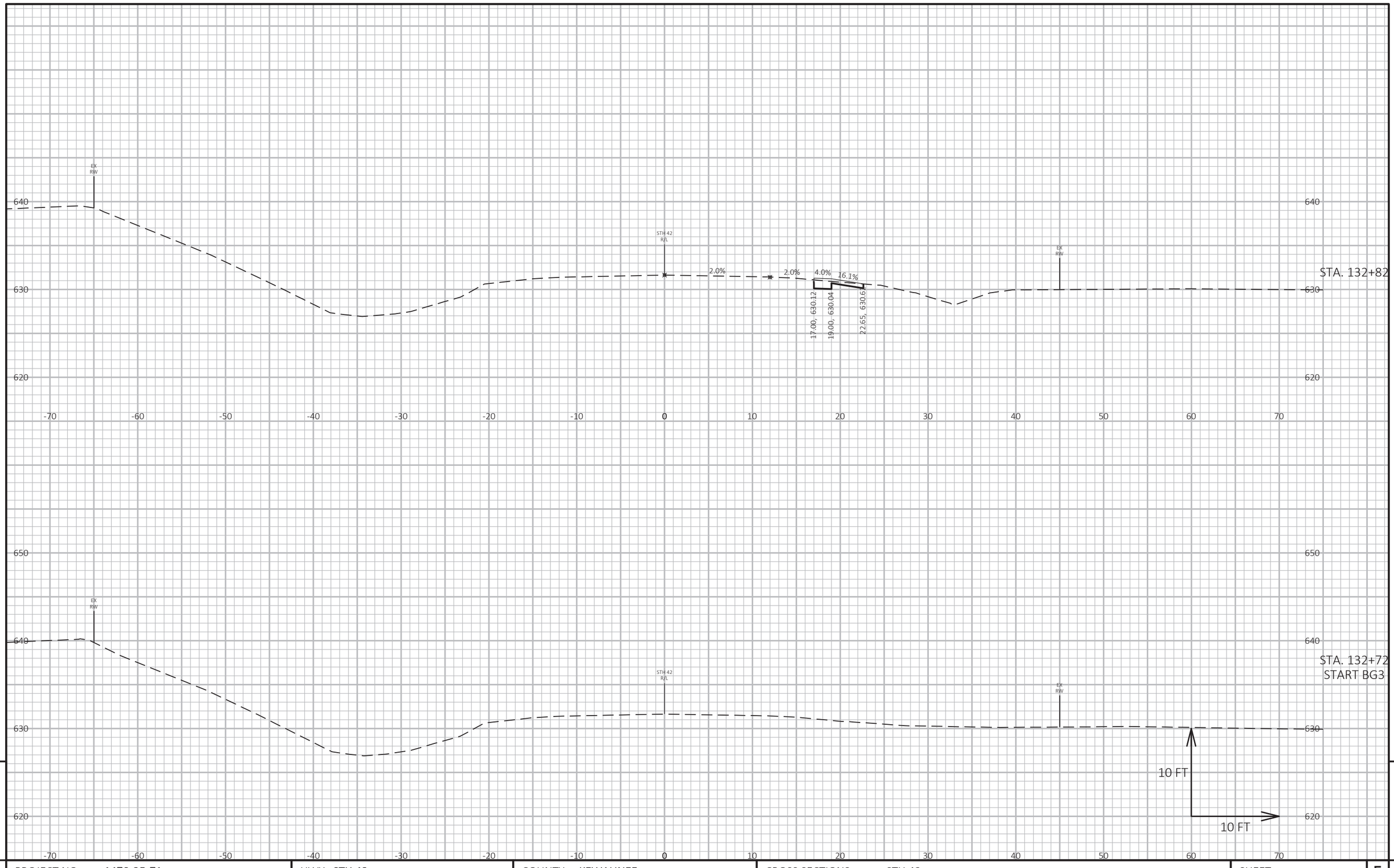
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG2-090219-xs

PLOT DATE : 1/7/2020 1:09 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 176	E

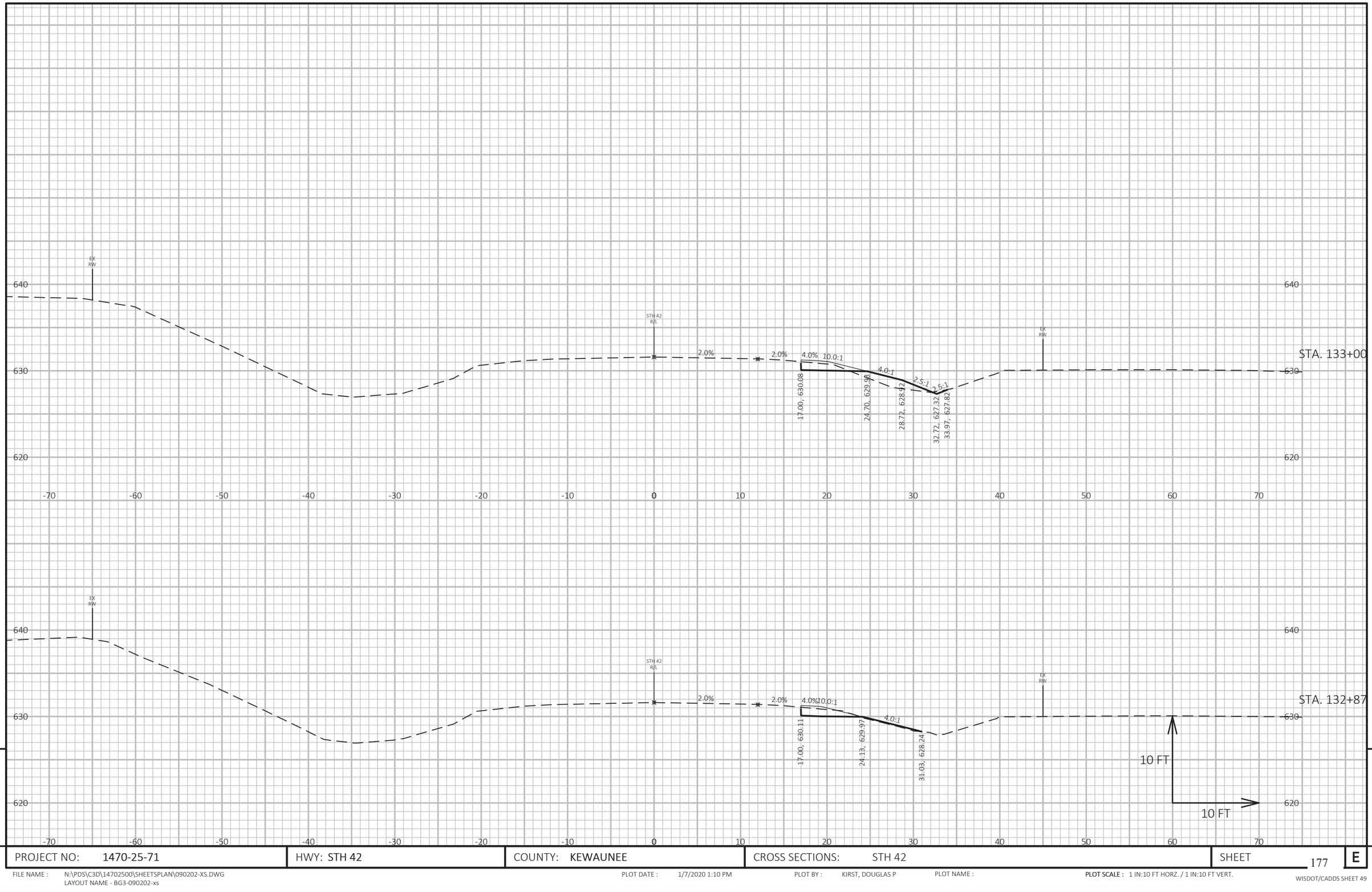
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090201-xs

PLOT DATE : 1/7/2020 1:09 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 177	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090202-xs

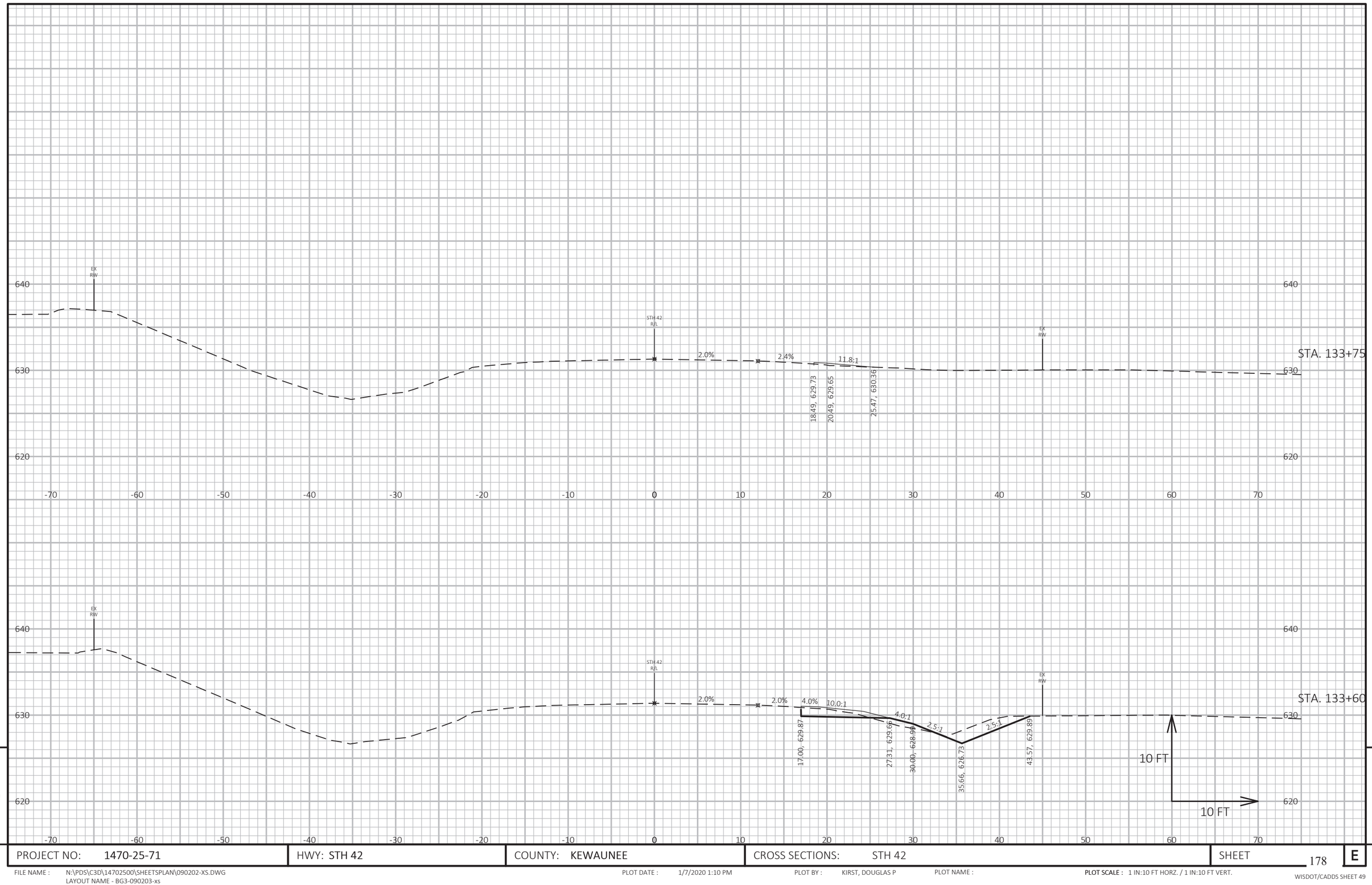
PLOT DATE : 1/7/2020 1:10 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 178	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090203-xs

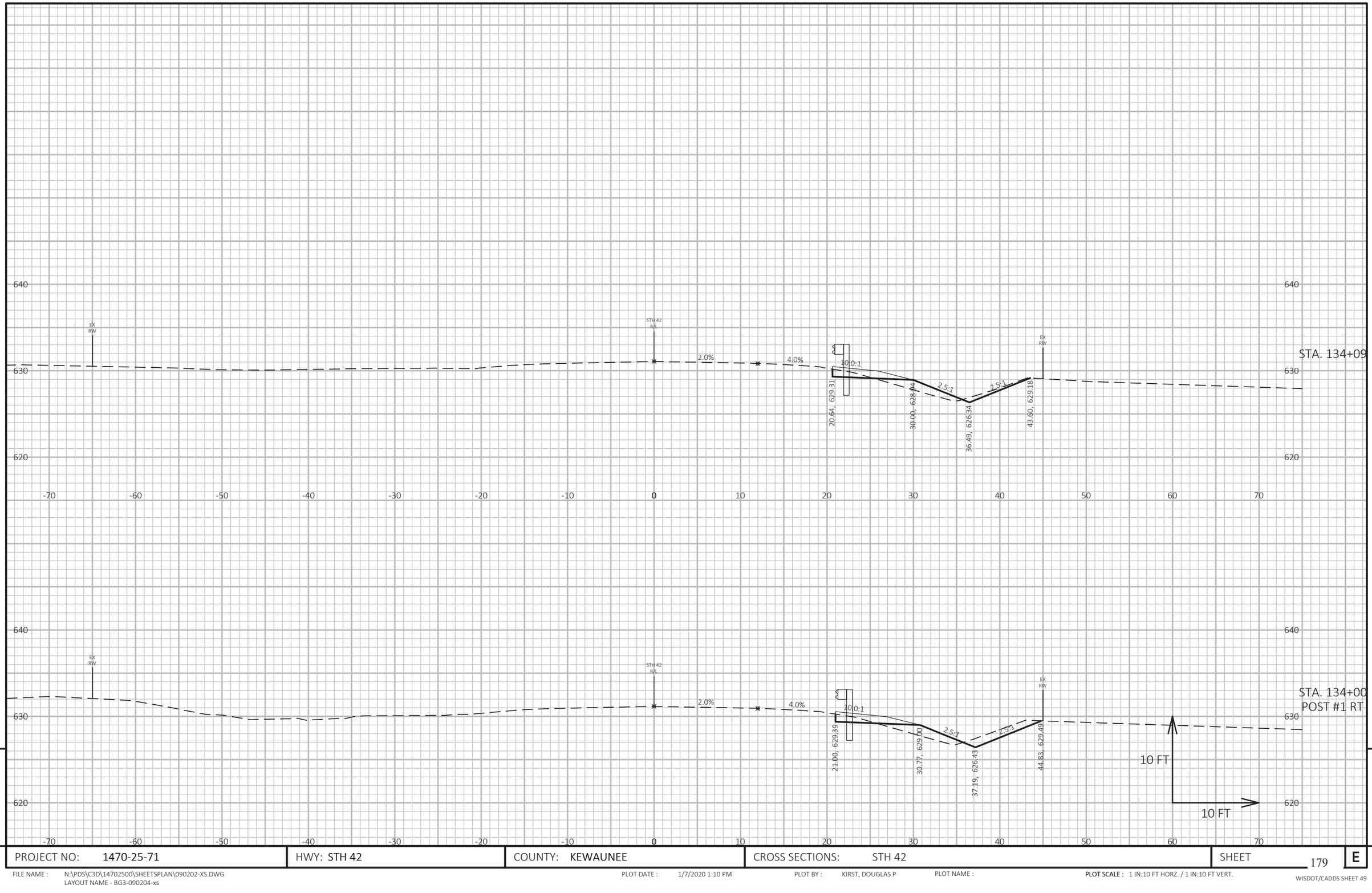
PLOT DATE : 1/7/2020 1:10 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 179	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090204-xs

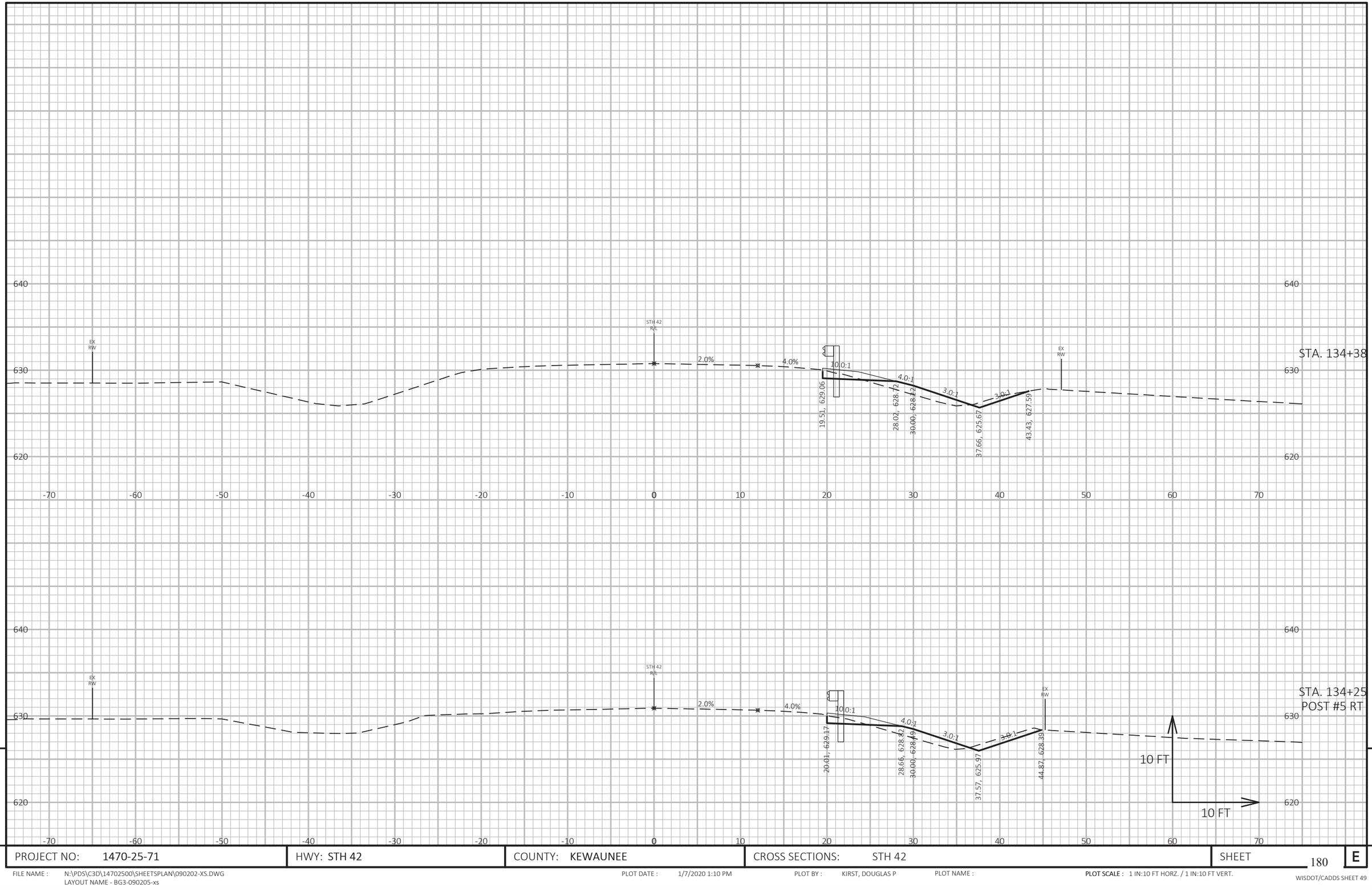
PLOT DATE : 1/7/2020 1:10 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 180	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090205-xs

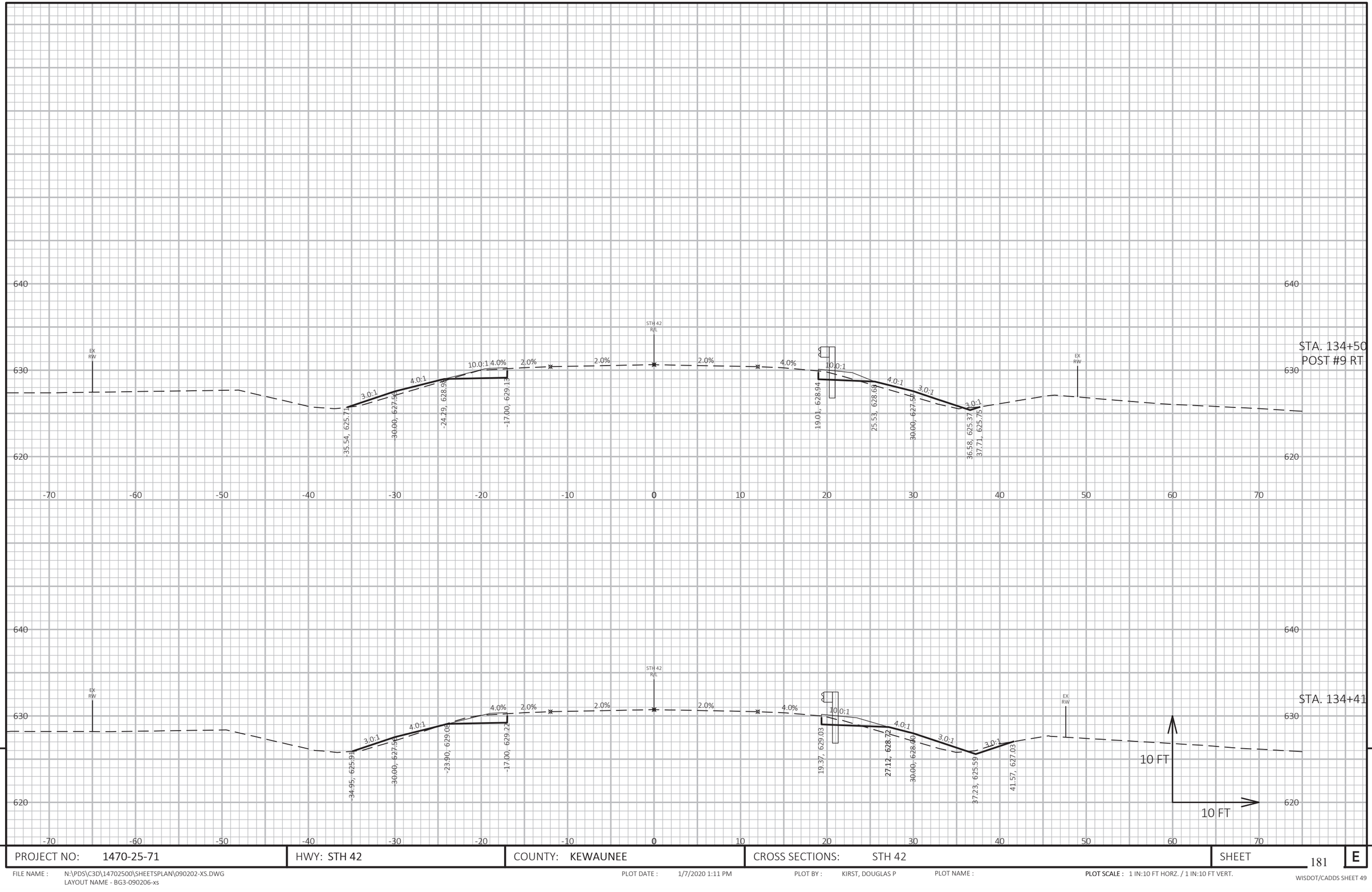
PLOT DATE : 1/7/2020 1:10 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 181	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090206-xs

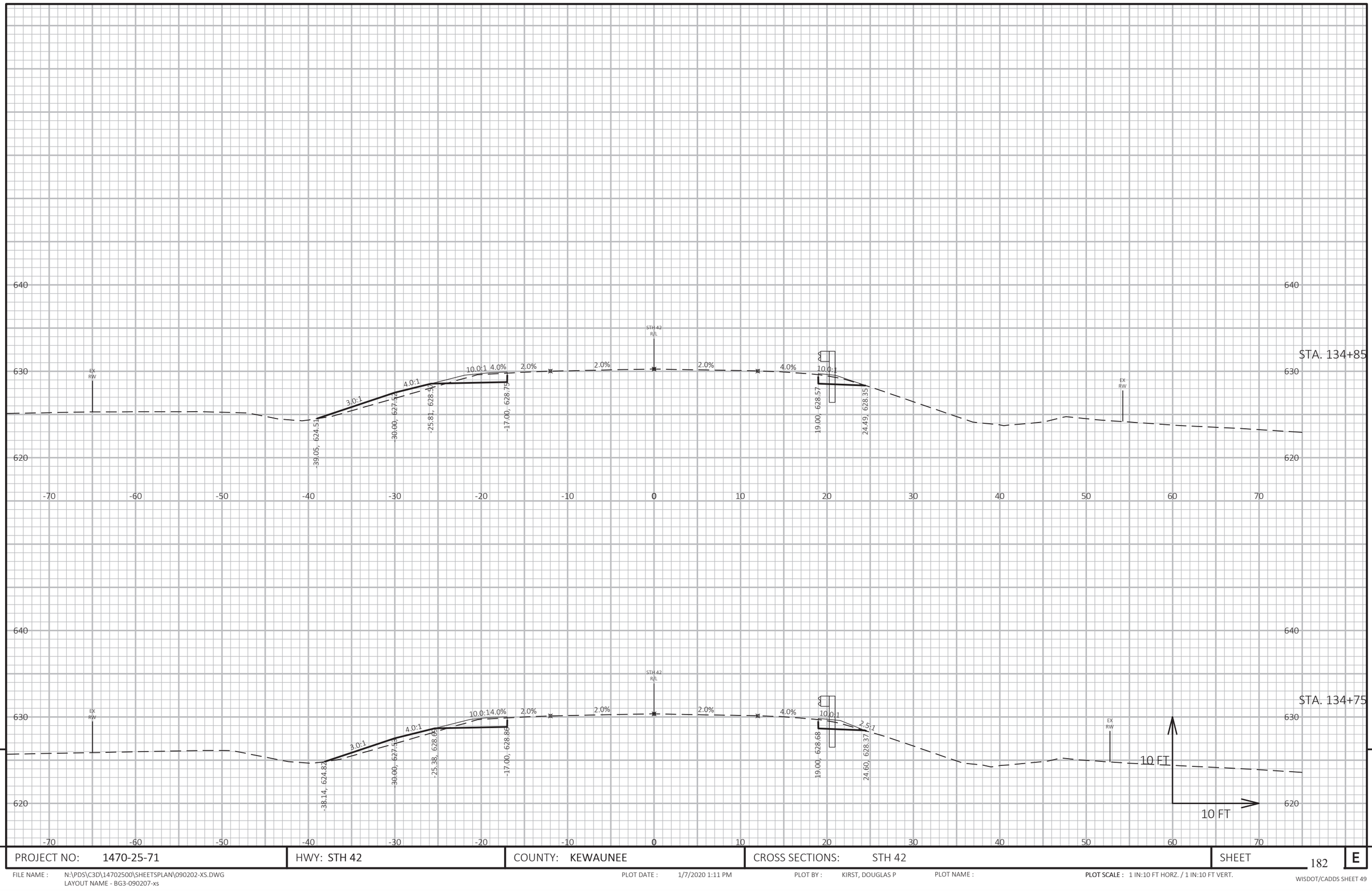
PLOT DATE : 1/7/2020 1:11 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

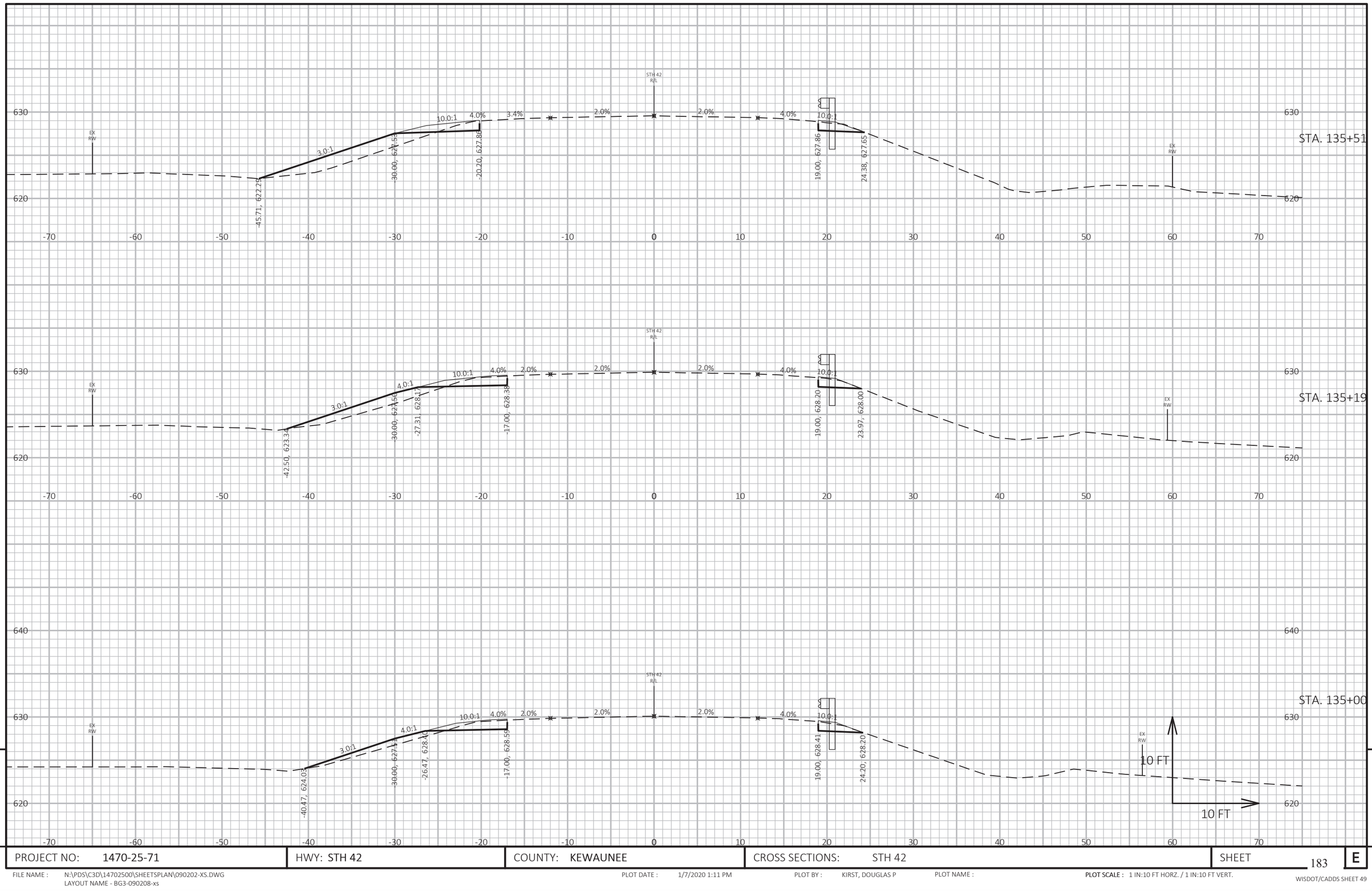


PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 182	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090207-xs

PLOT DATE : 1/7/2020 1:11 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 183	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090208-xs

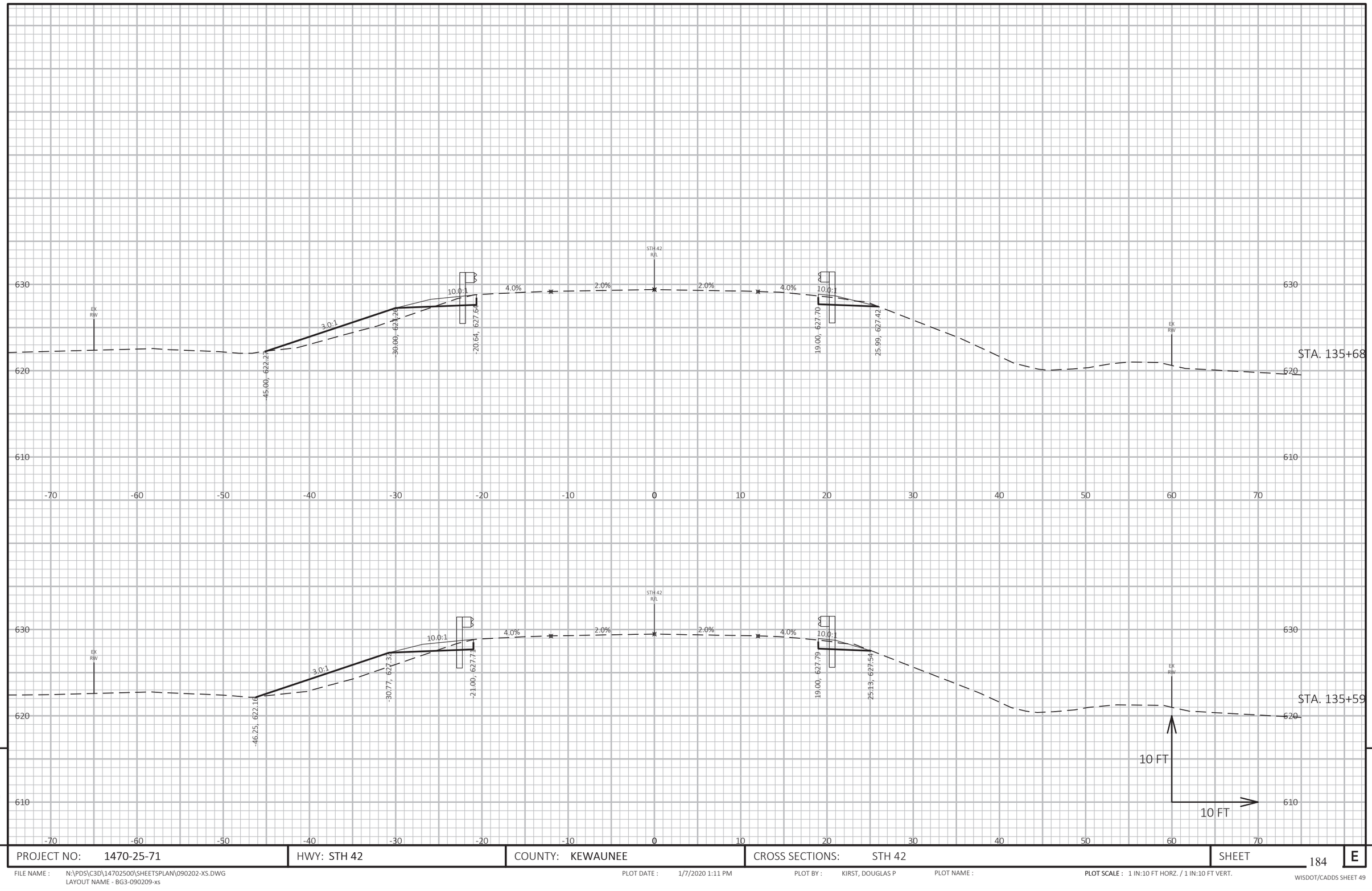
PLOT DATE : 1/7/2020 1:11 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 184	E

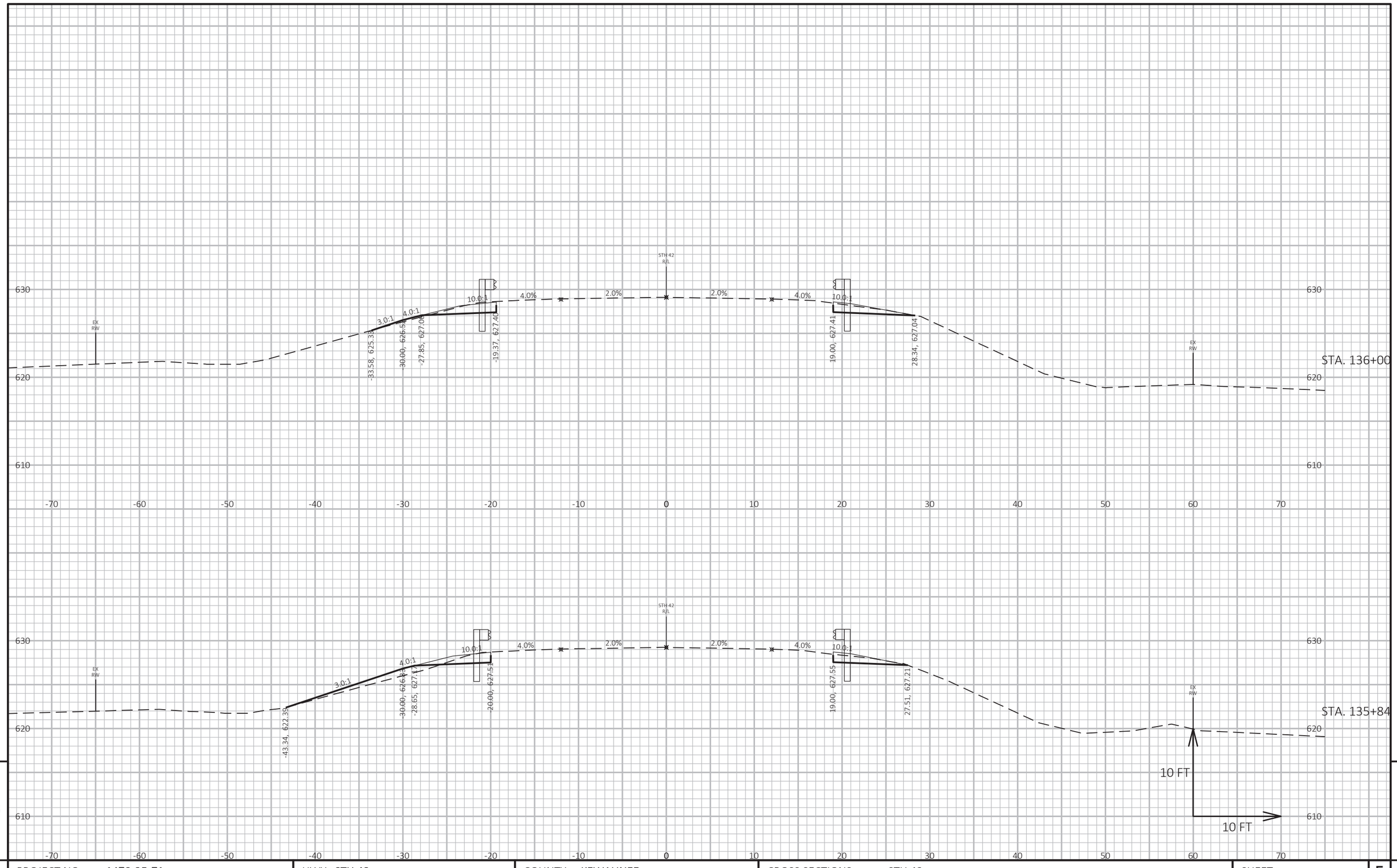
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090209-xs

PLOT DATE : 1/7/2020 1:11 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 185	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090210-xs

PLOT DATE : 1/7/2020 1:11 PM

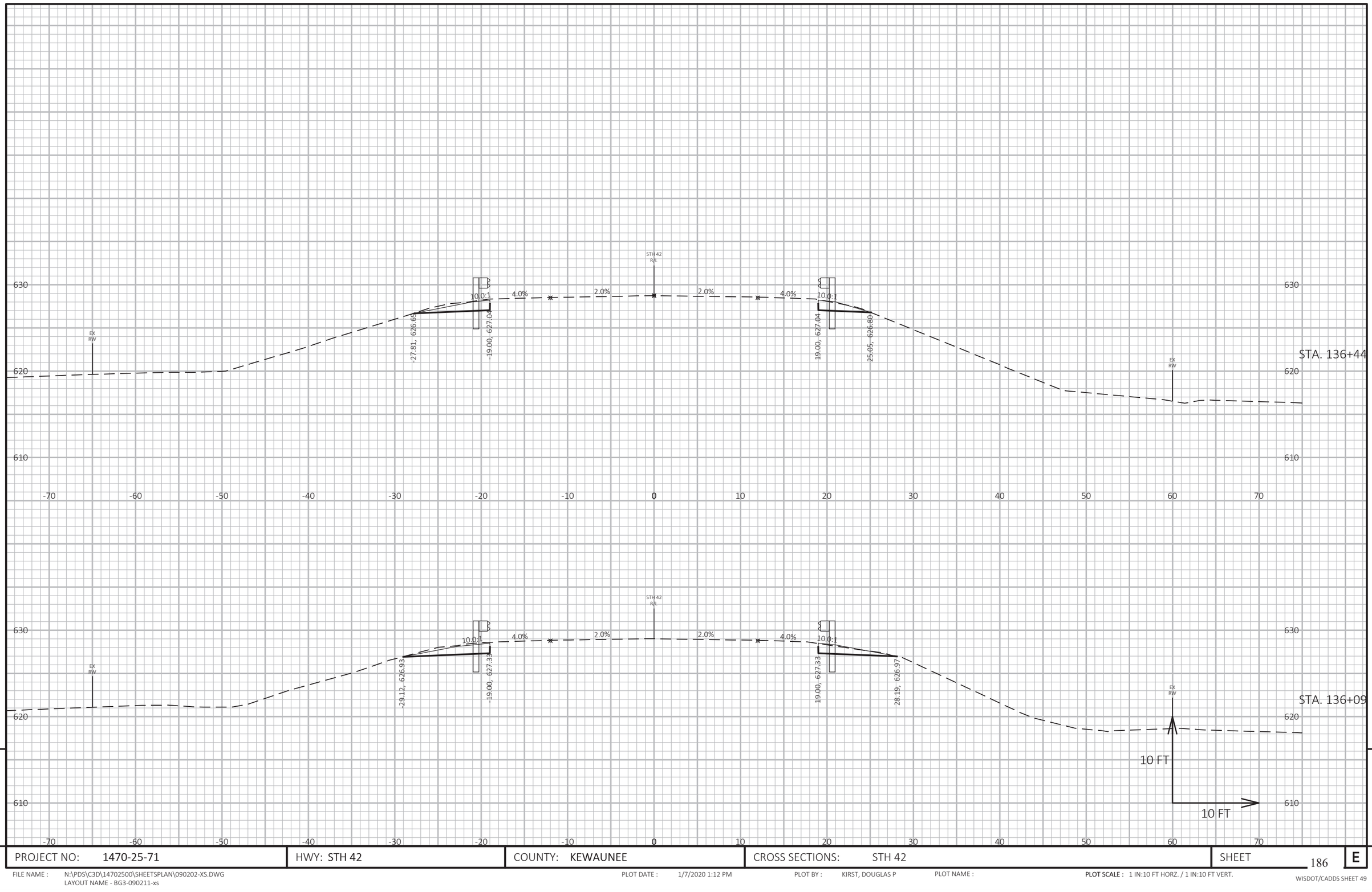
PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 186	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090211-xs

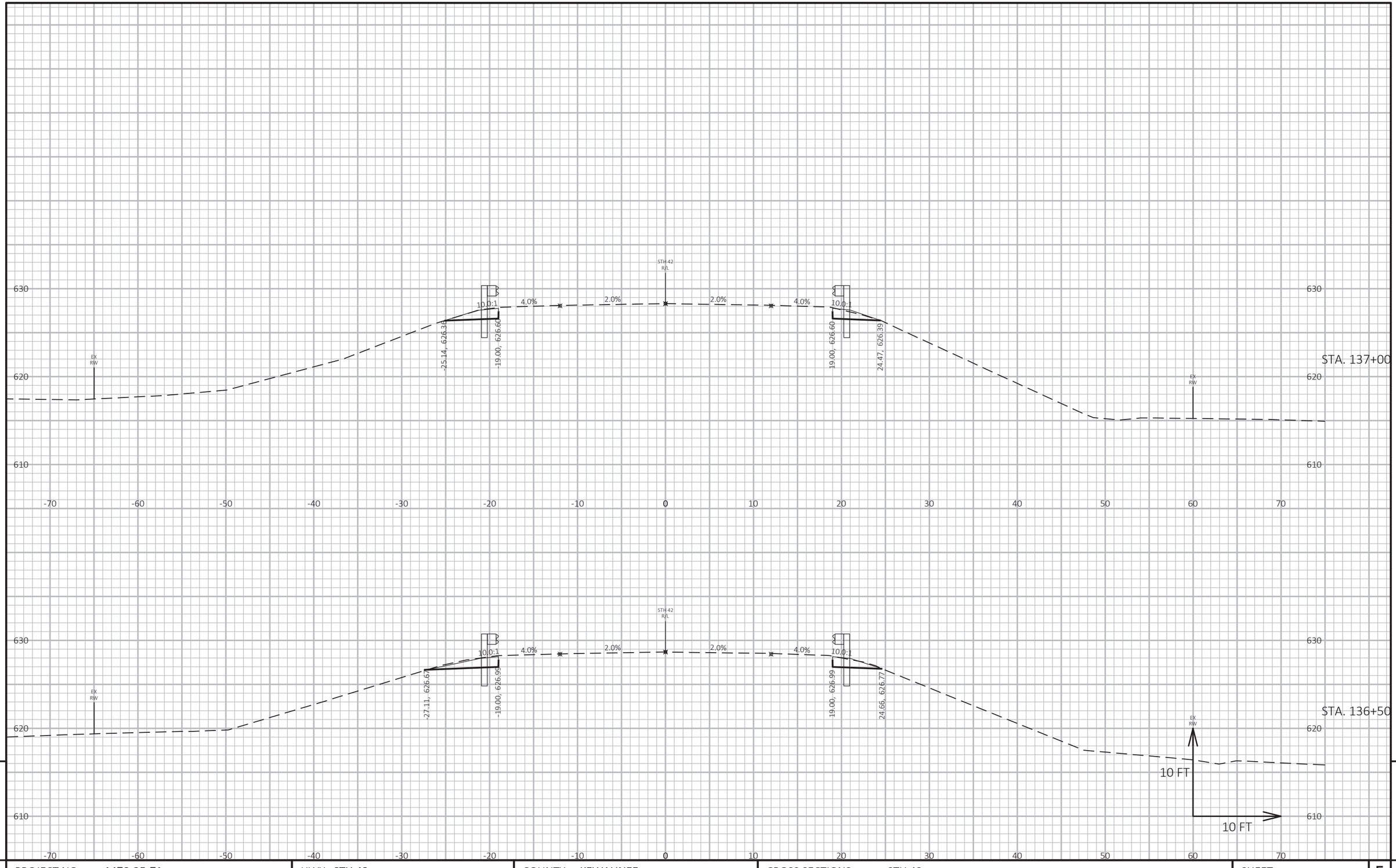
PLOT DATE : 1/7/2020 1:12 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 187	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090212-xs

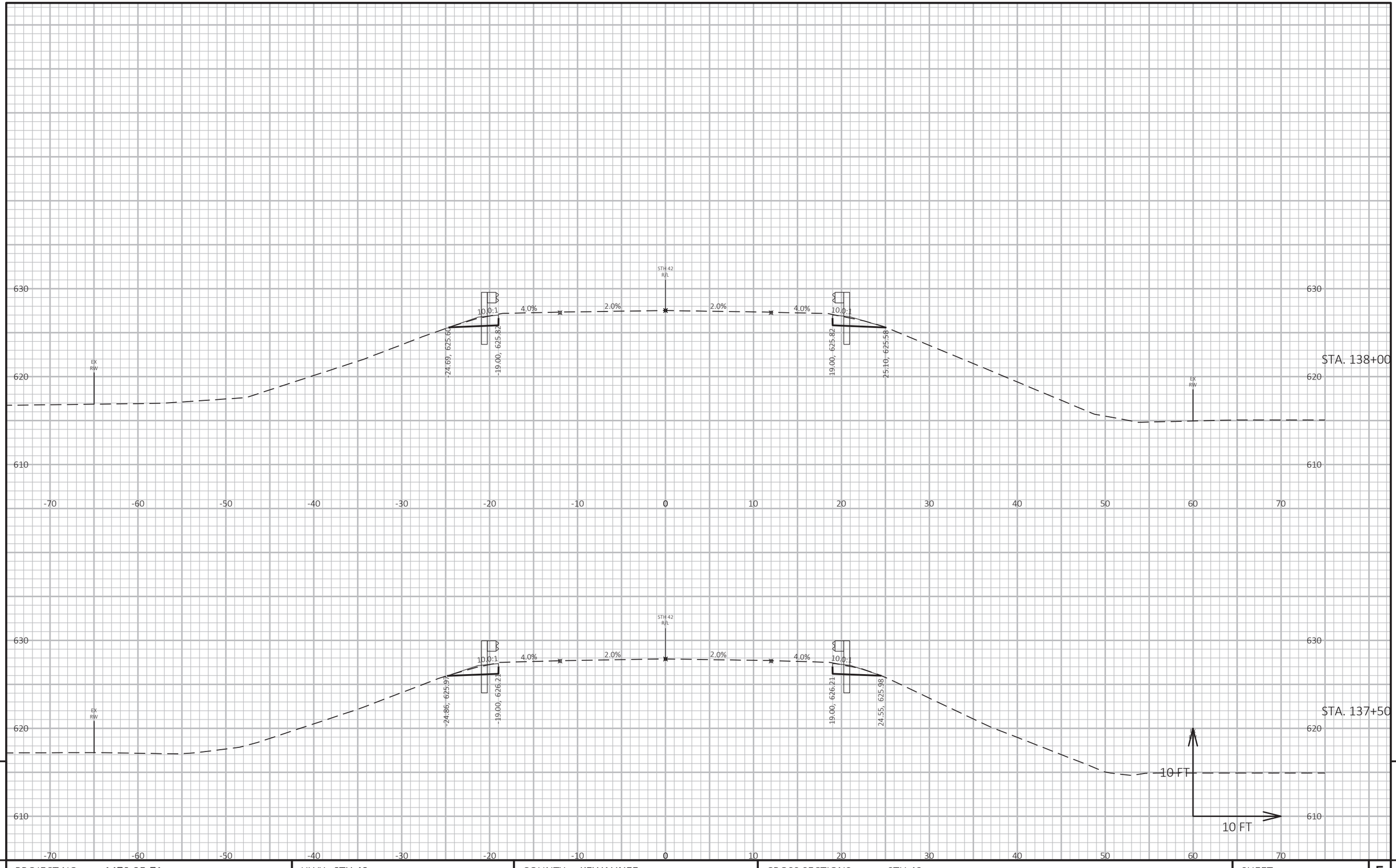
PLOT DATE : 1/7/2020 1:12 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 188	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090213-xs

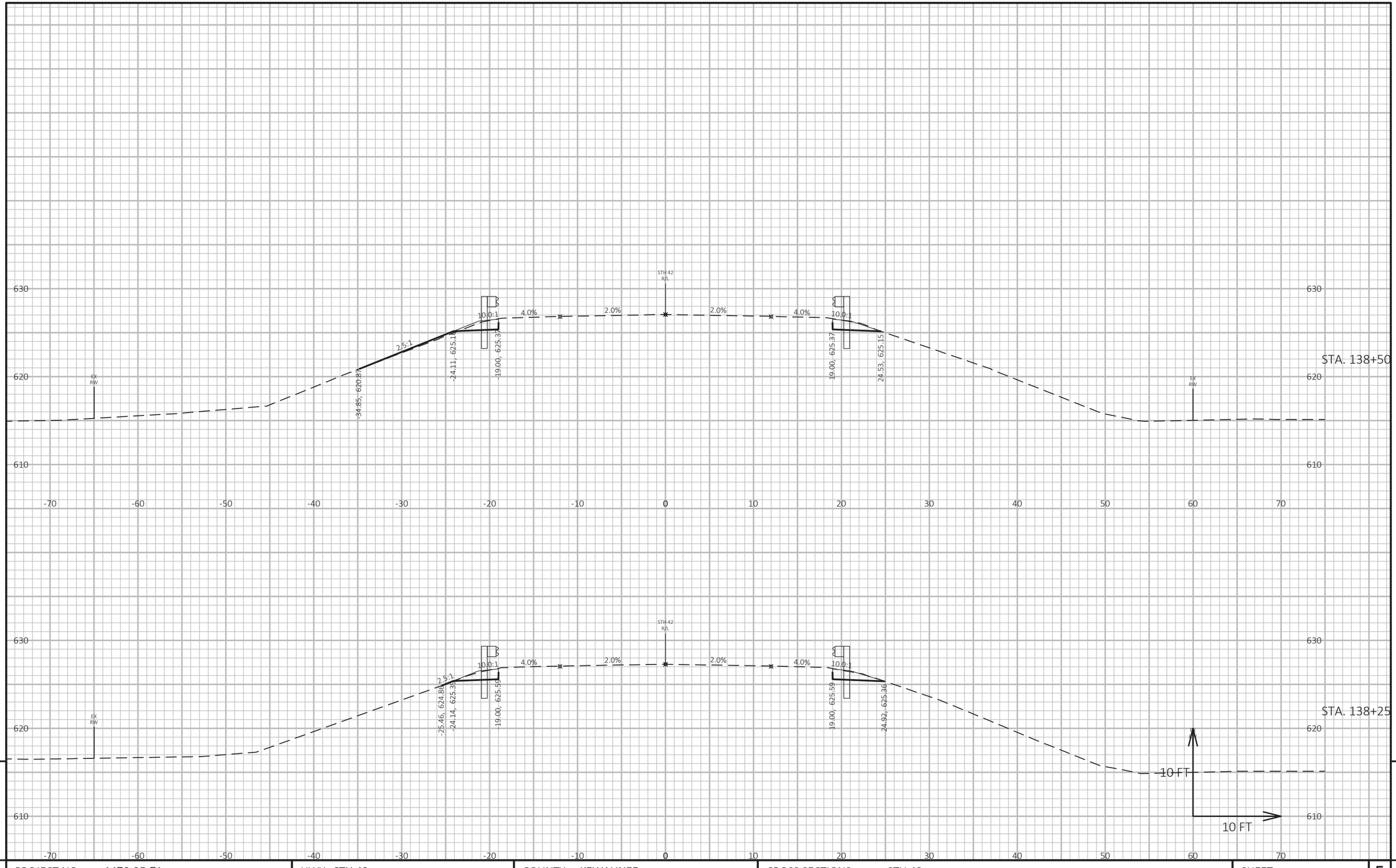
PLOT DATE : 1/7/2020 1:12 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 189	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090214-xs

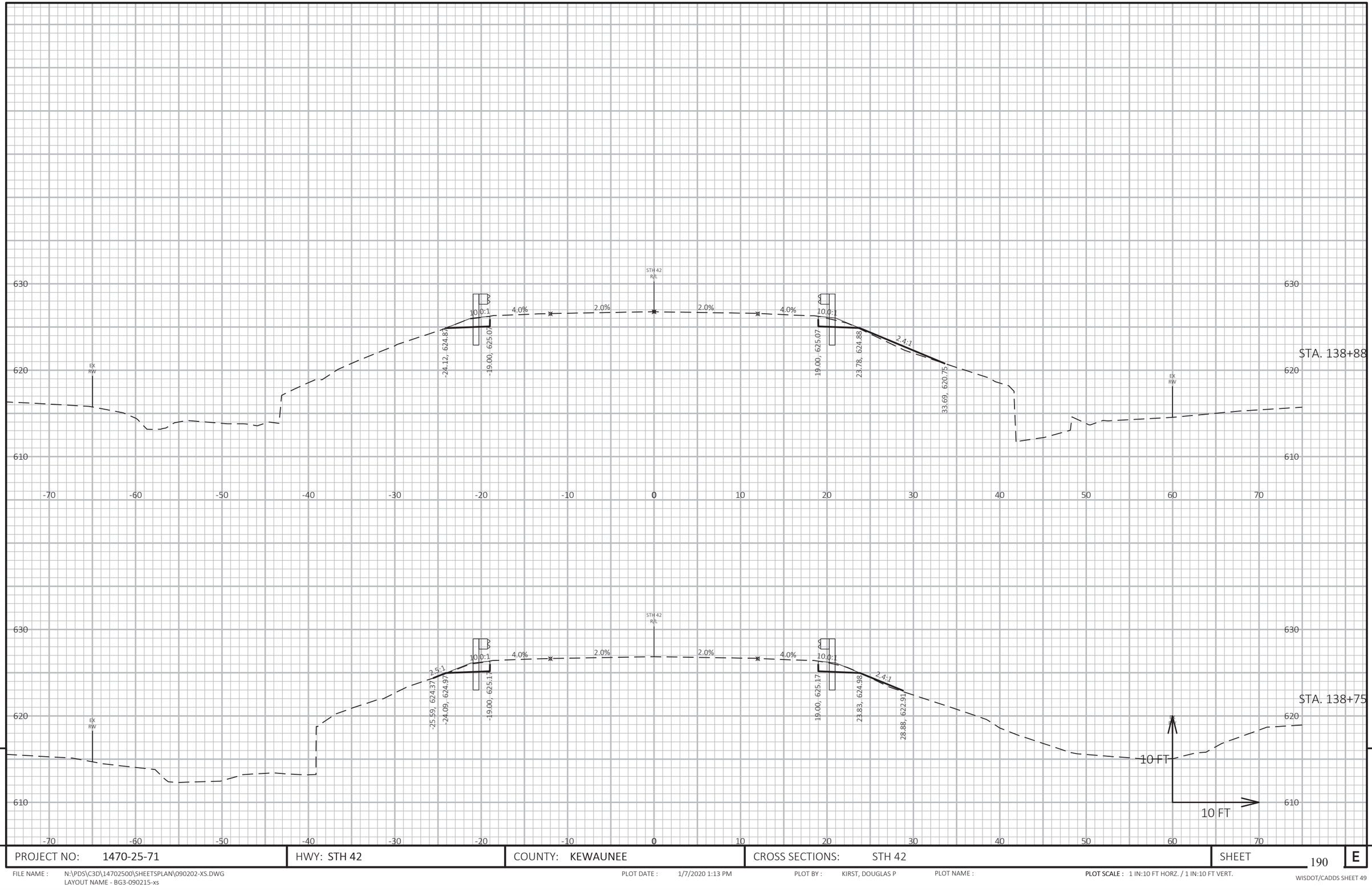
PLOT DATE : 1/7/2020 1:12 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 190	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090215-xs

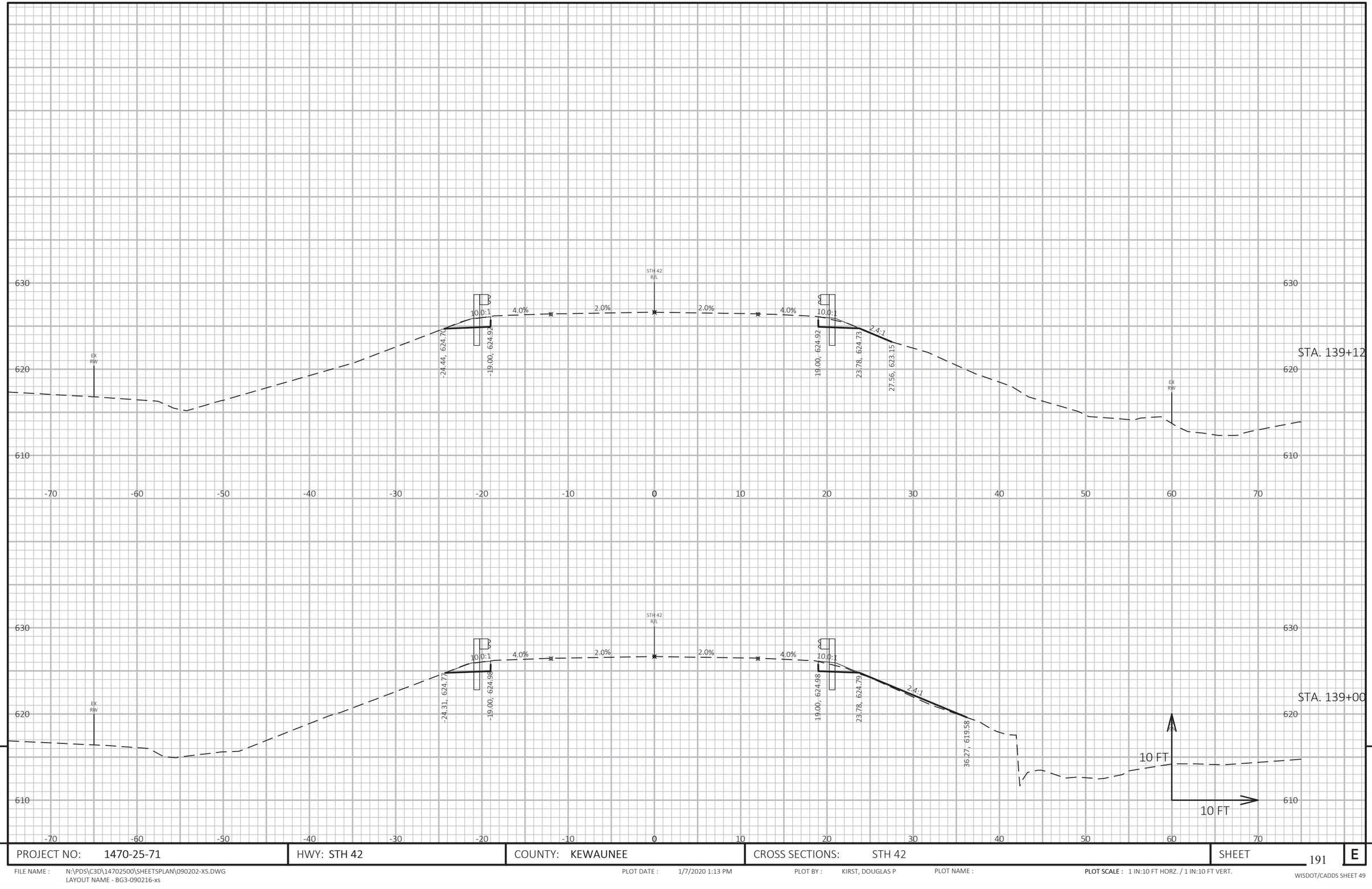
PLOT DATE : 1/7/2020 1:13 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 191	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090216-xs

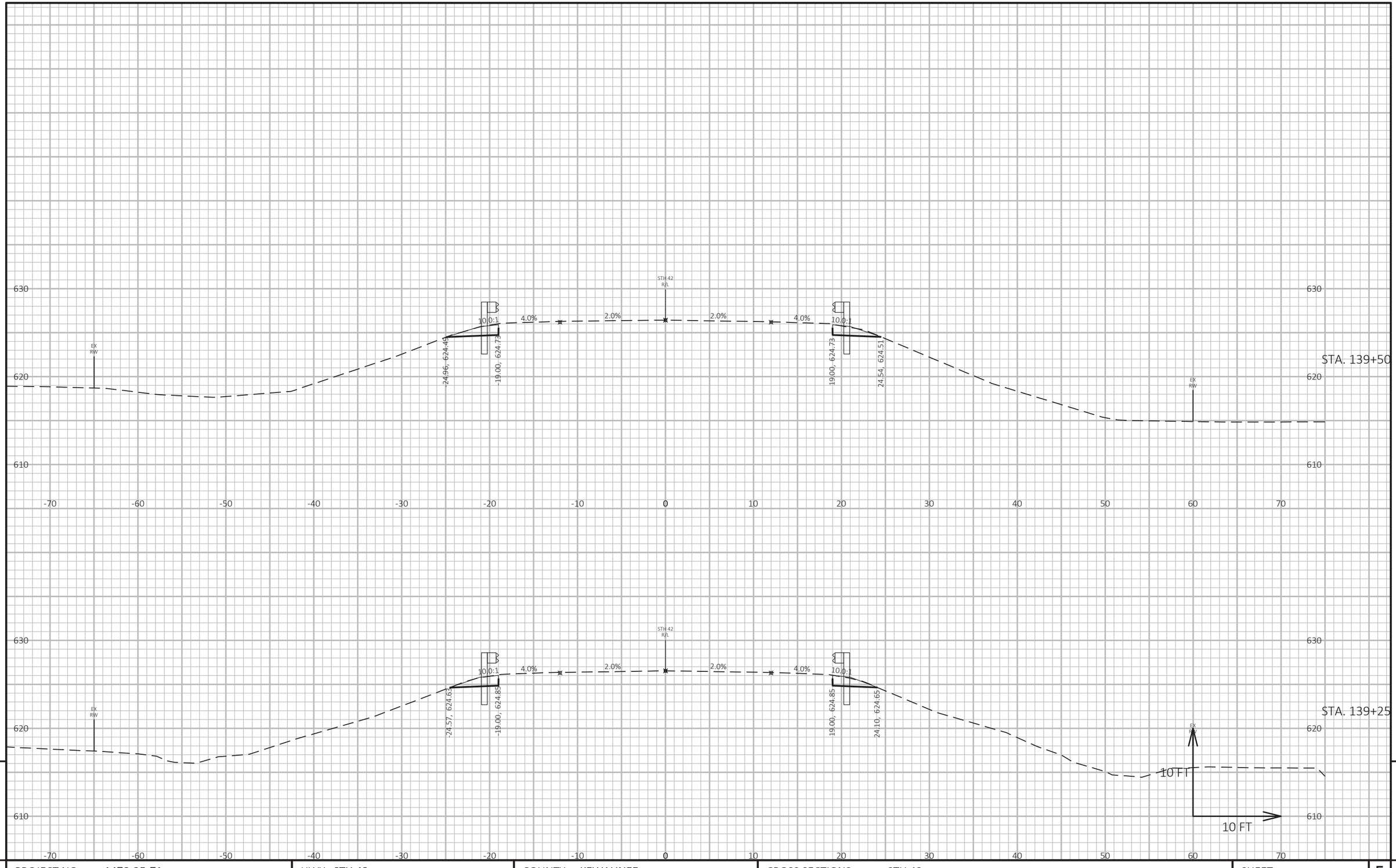
PLOT DATE : 1/7/2020 1:13 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 192	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090217-xs

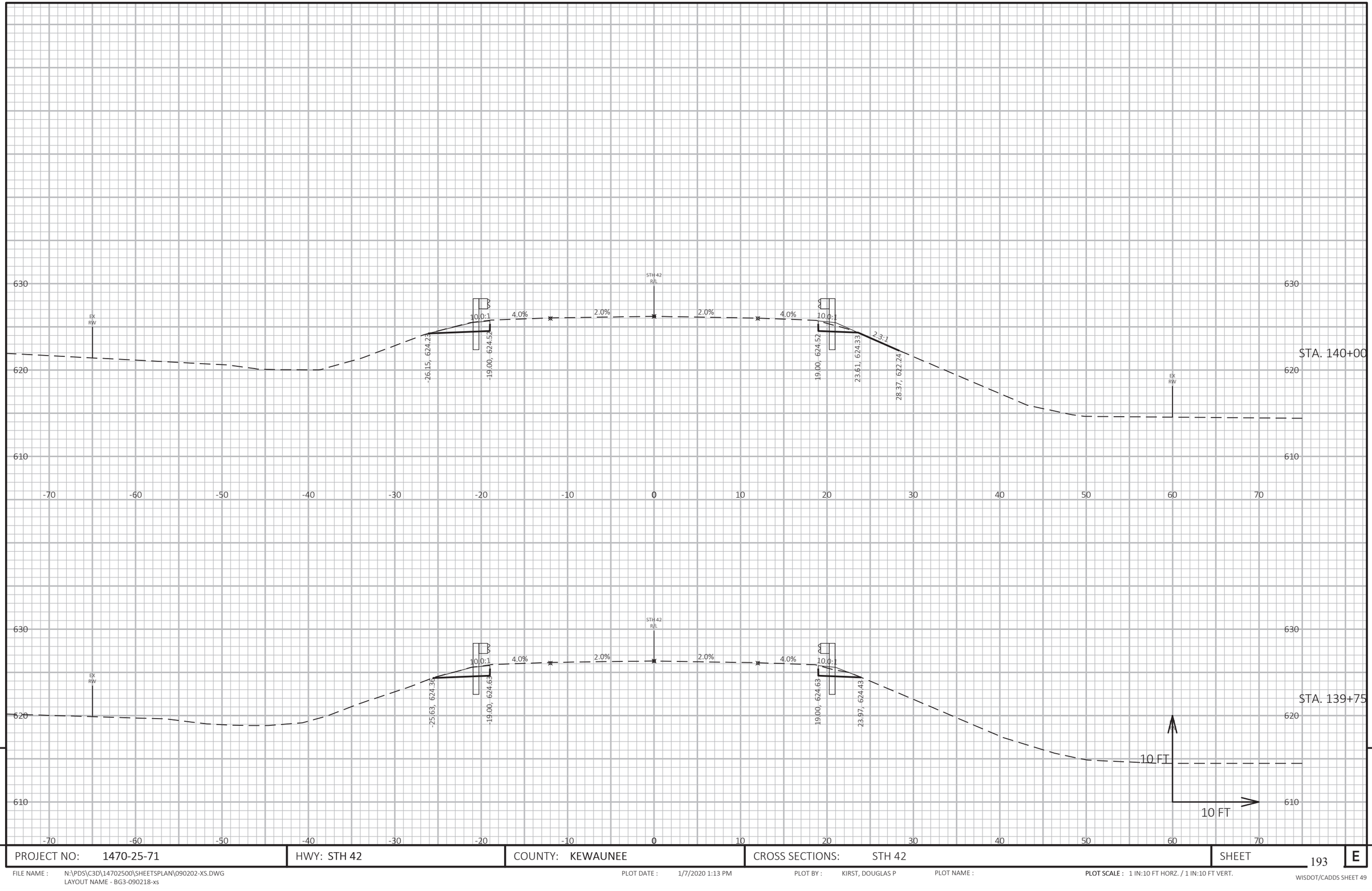
PLOT DATE : 1/7/2020 1:13 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 193	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090218-xs

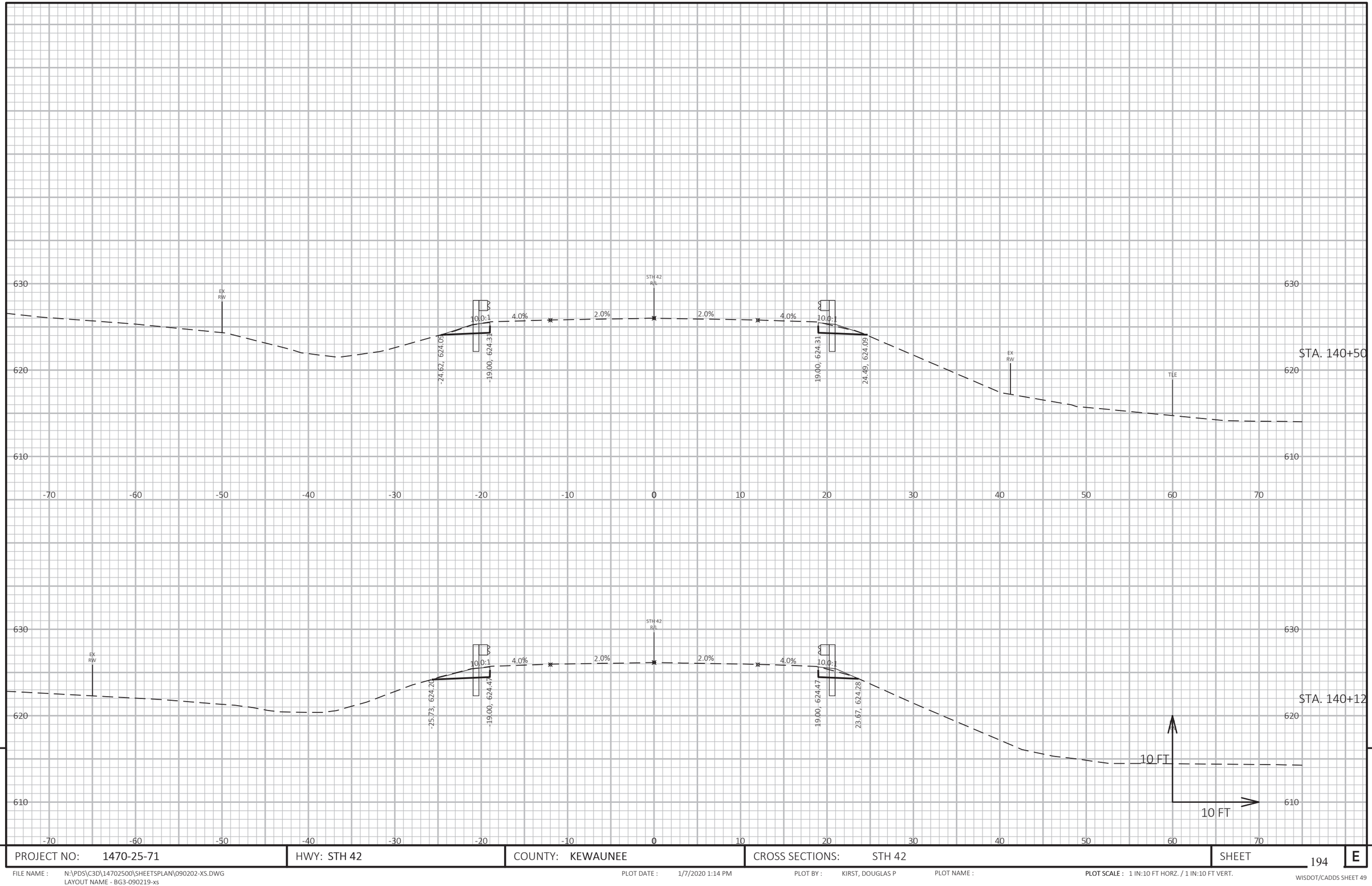
PLOT DATE : 1/7/2020 1:13 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 194	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090219-xs

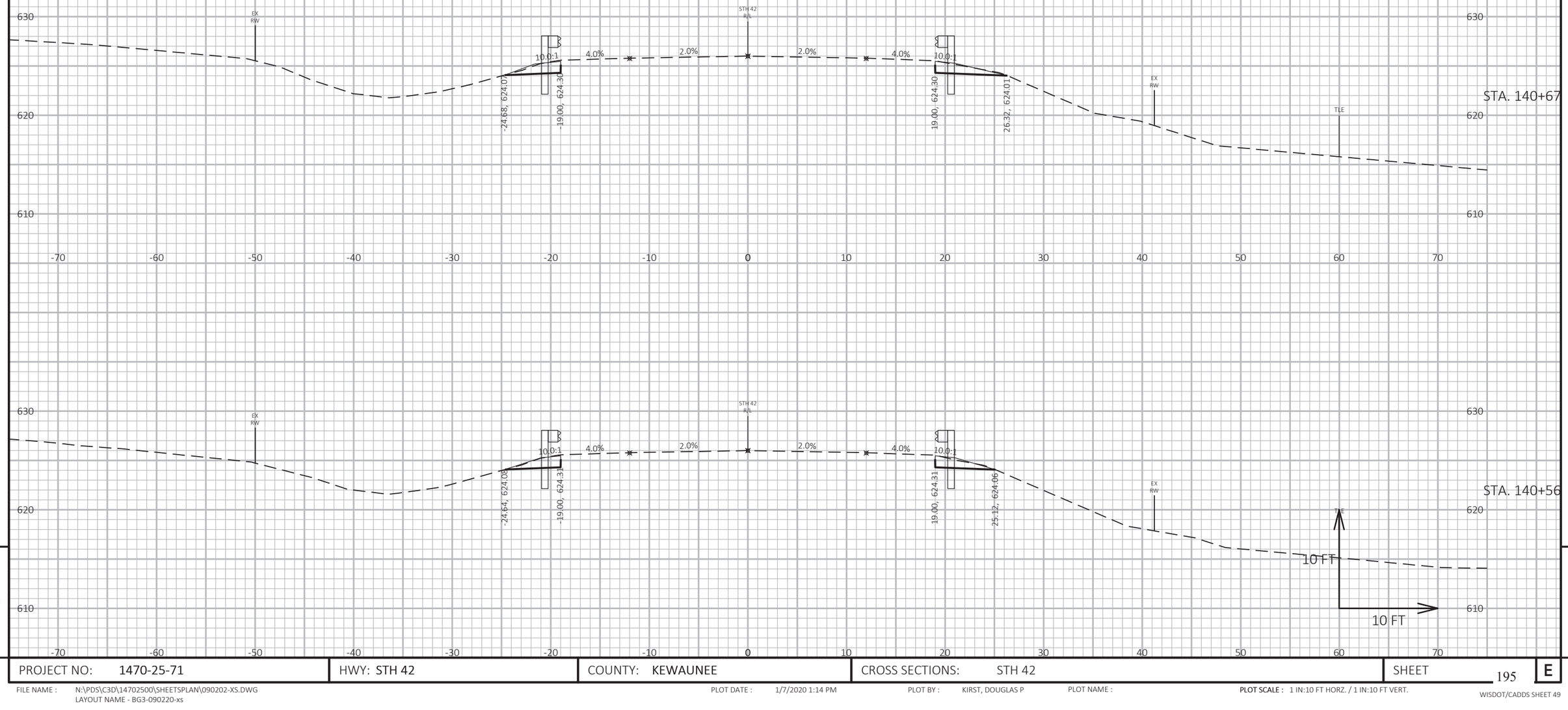
PLOT DATE : 1/7/2020 1:14 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 195	E

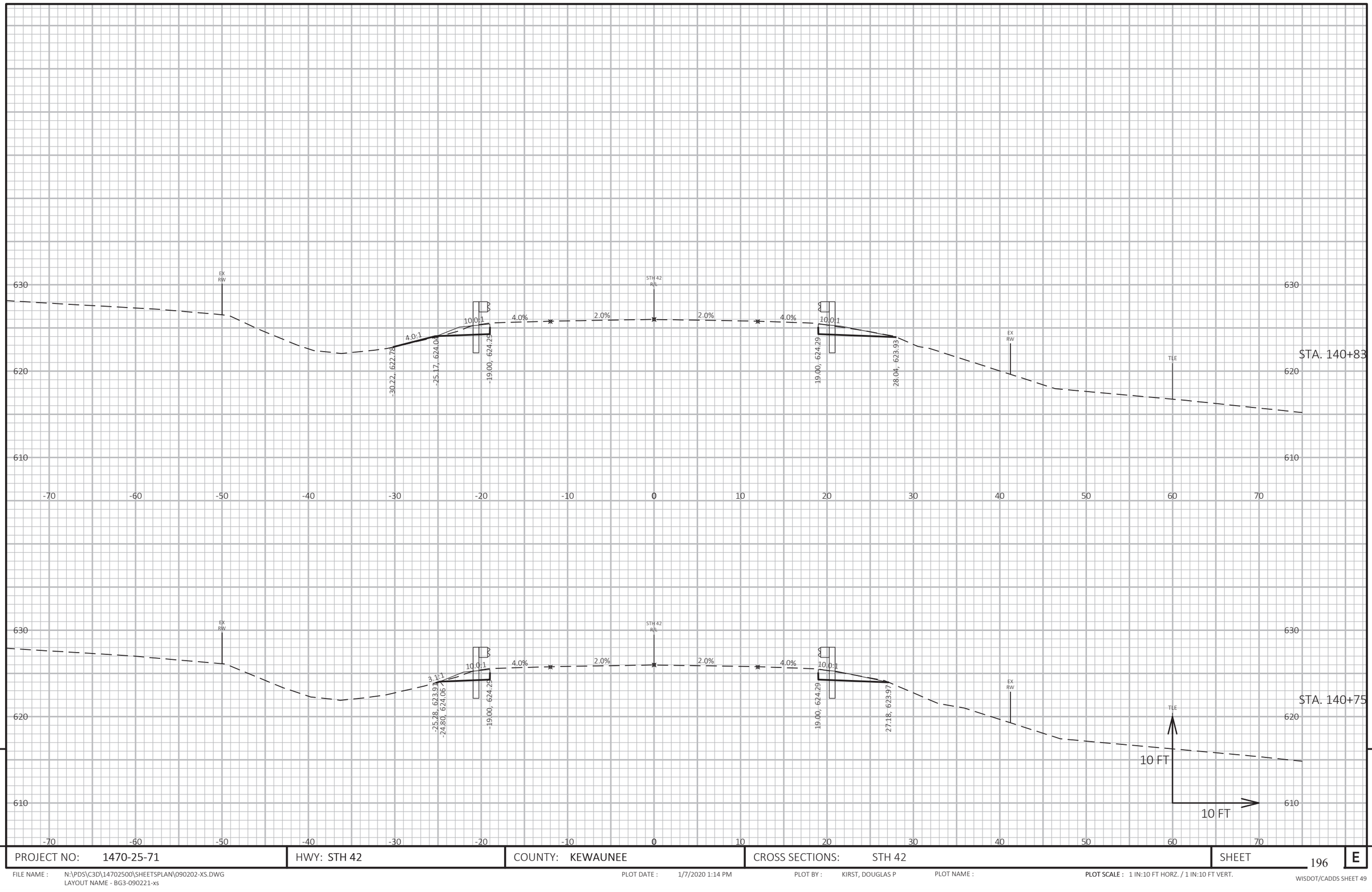
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090220-xs

PLOT DATE : 1/7/2020 1:14 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 196	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090221-xs

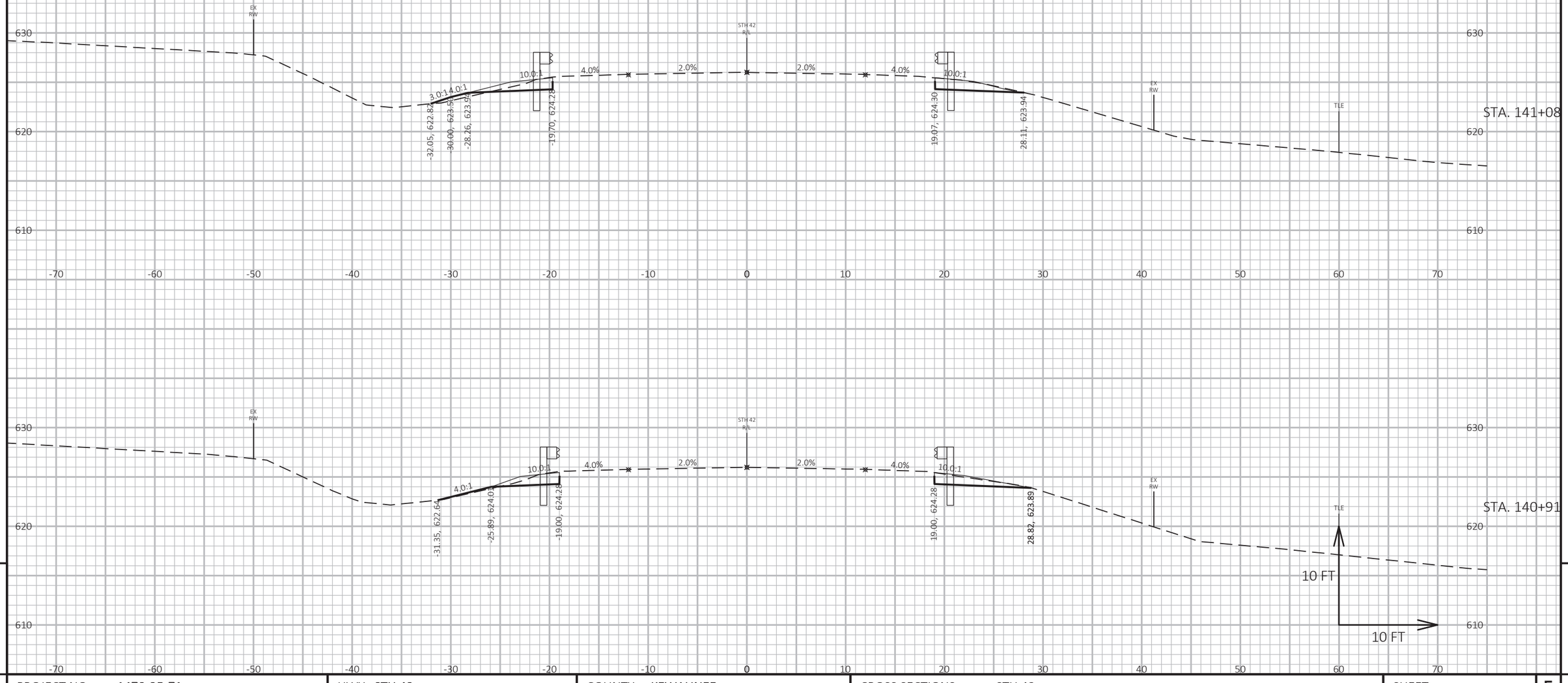
PLOT DATE : 1/7/2020 1:14 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 197	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090222-xs

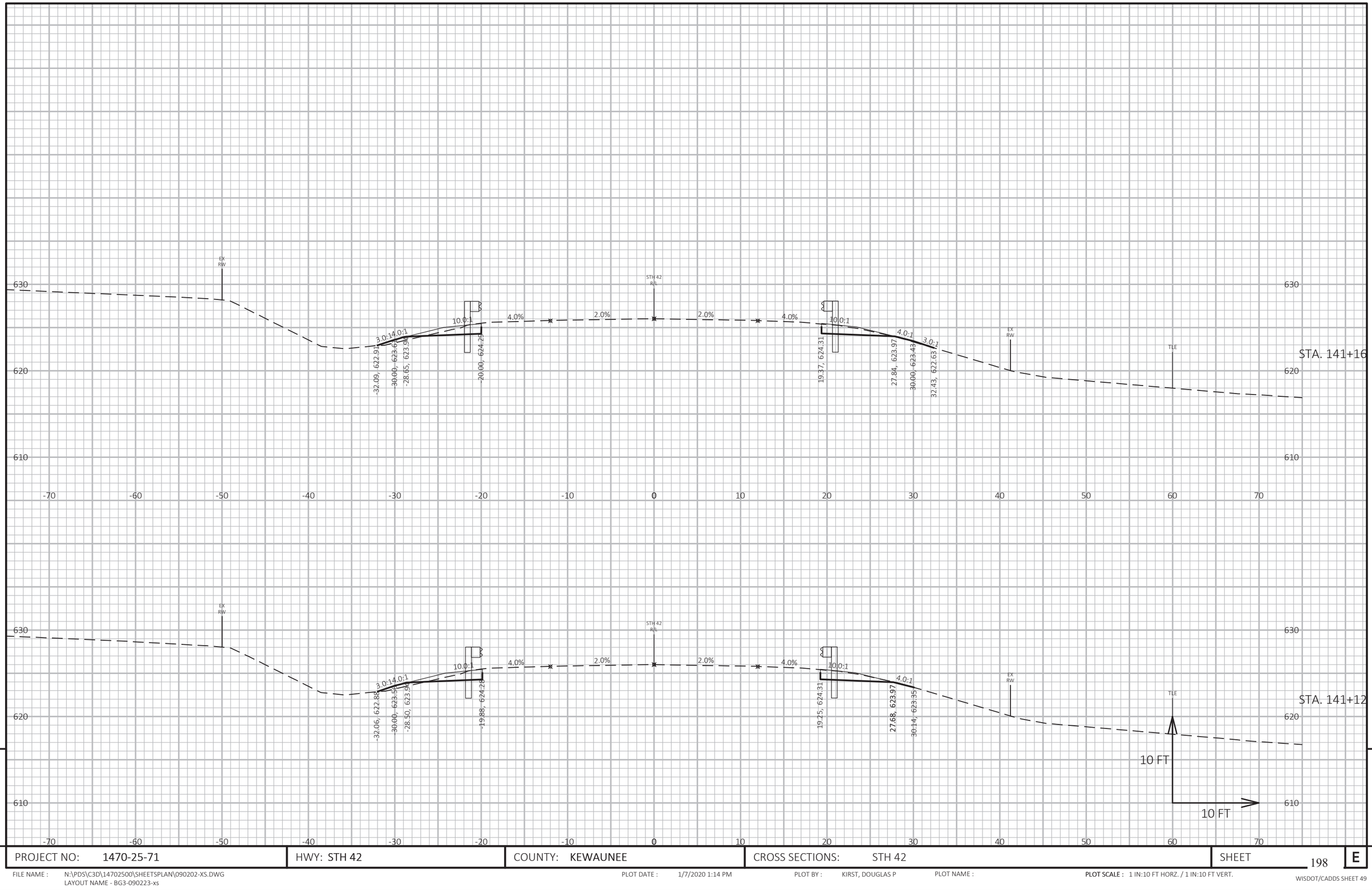
PLOT DATE : 1/7/2020 1:14 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 198	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090223-xs

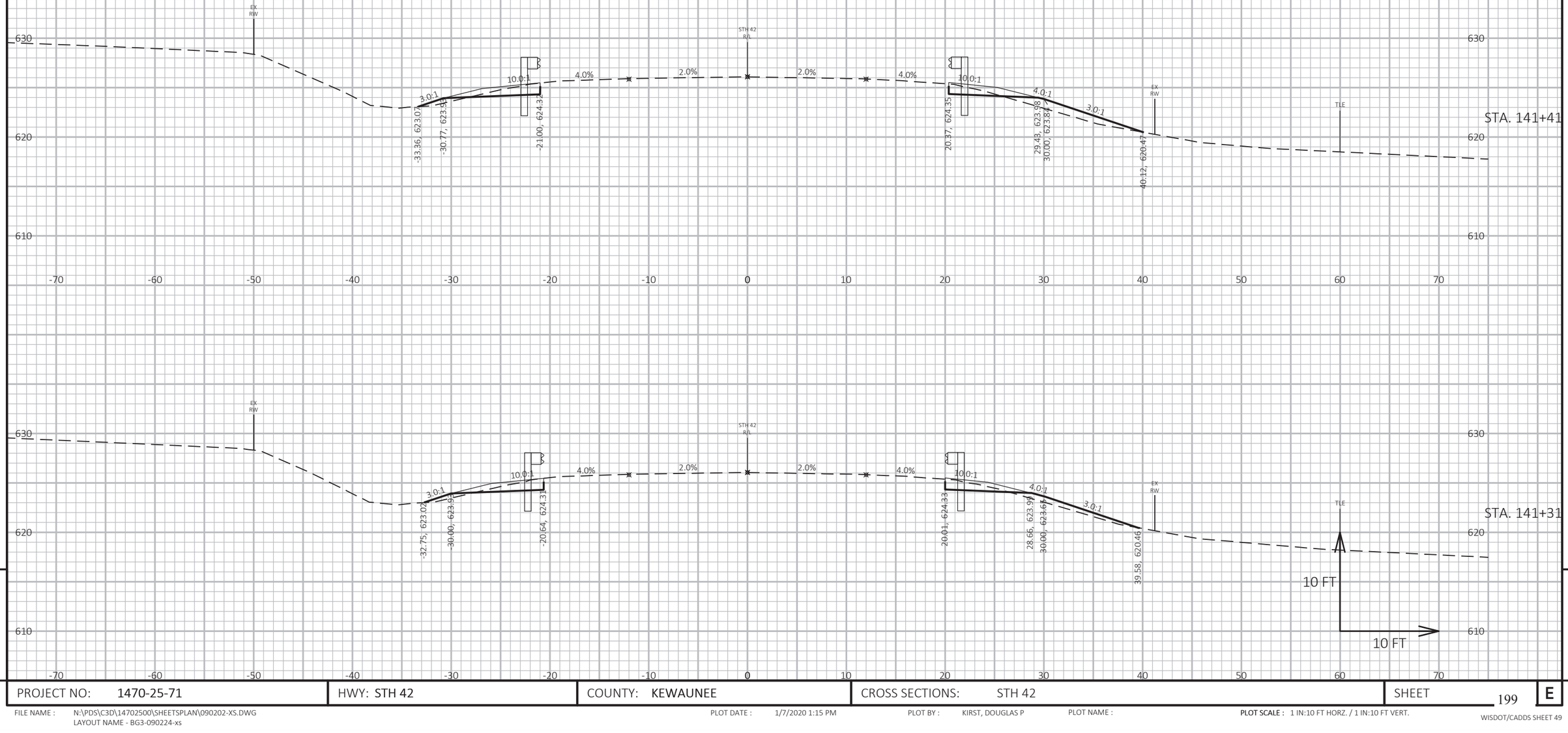
PLOT DATE : 1/7/2020 1:14 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 199	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090224-xs

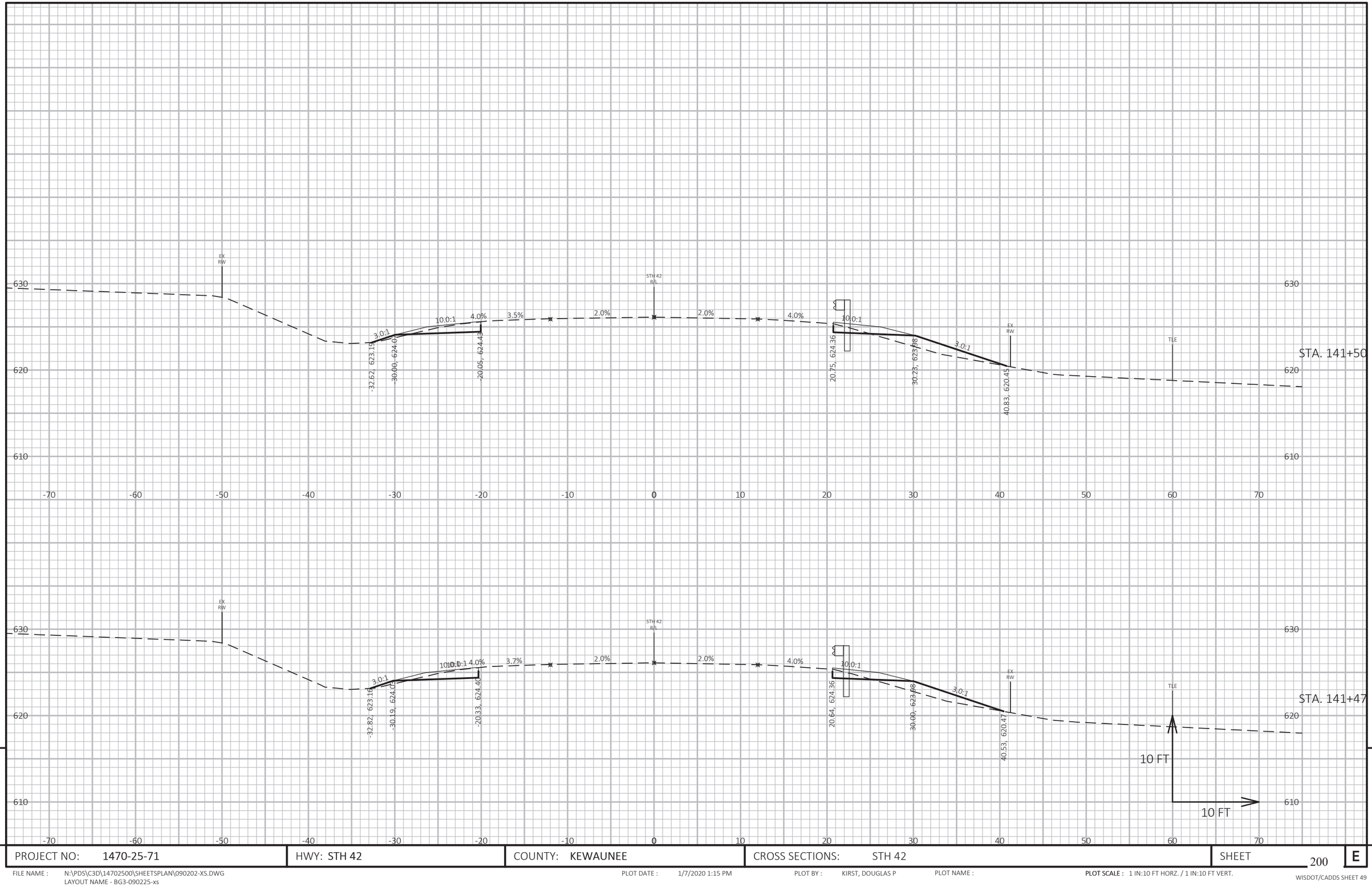
PLOT DATE : 1/7/2020 1:15 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 200	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090225-xs

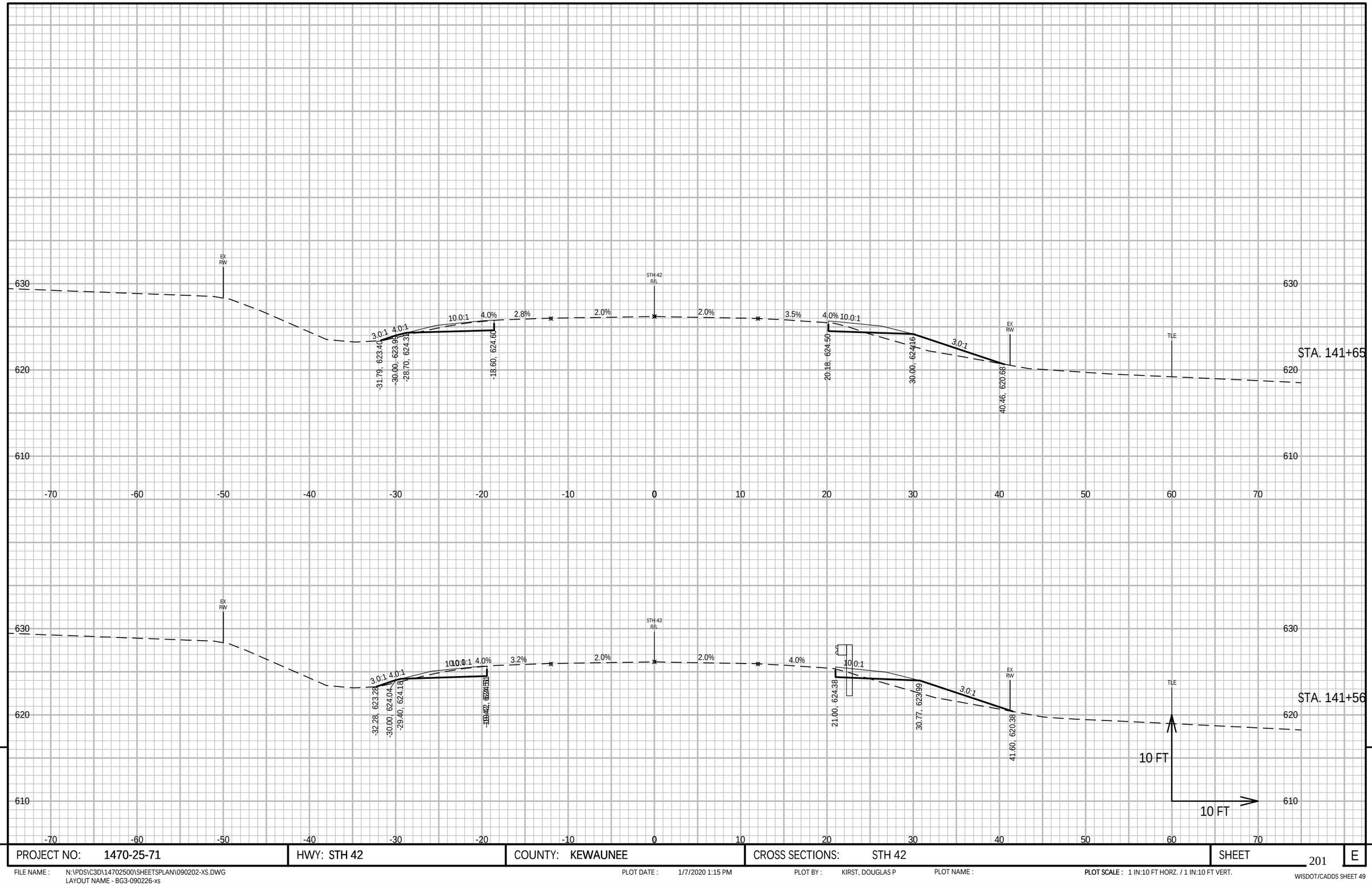
PLOT DATE : 1/7/2020 1:15 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 201	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090226-xs

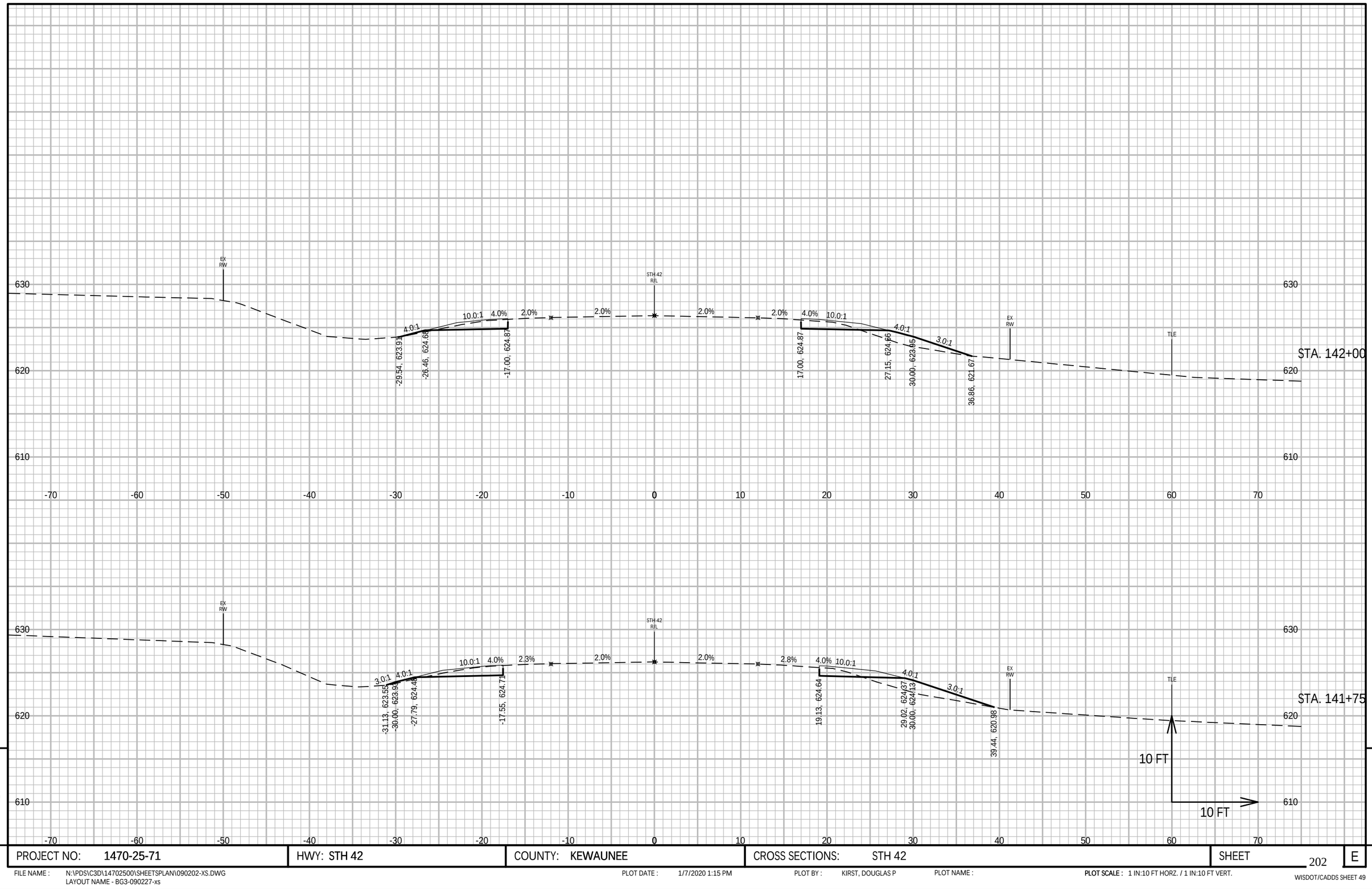
PLOT DATE : 1/7/2020 1:15 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 202	E

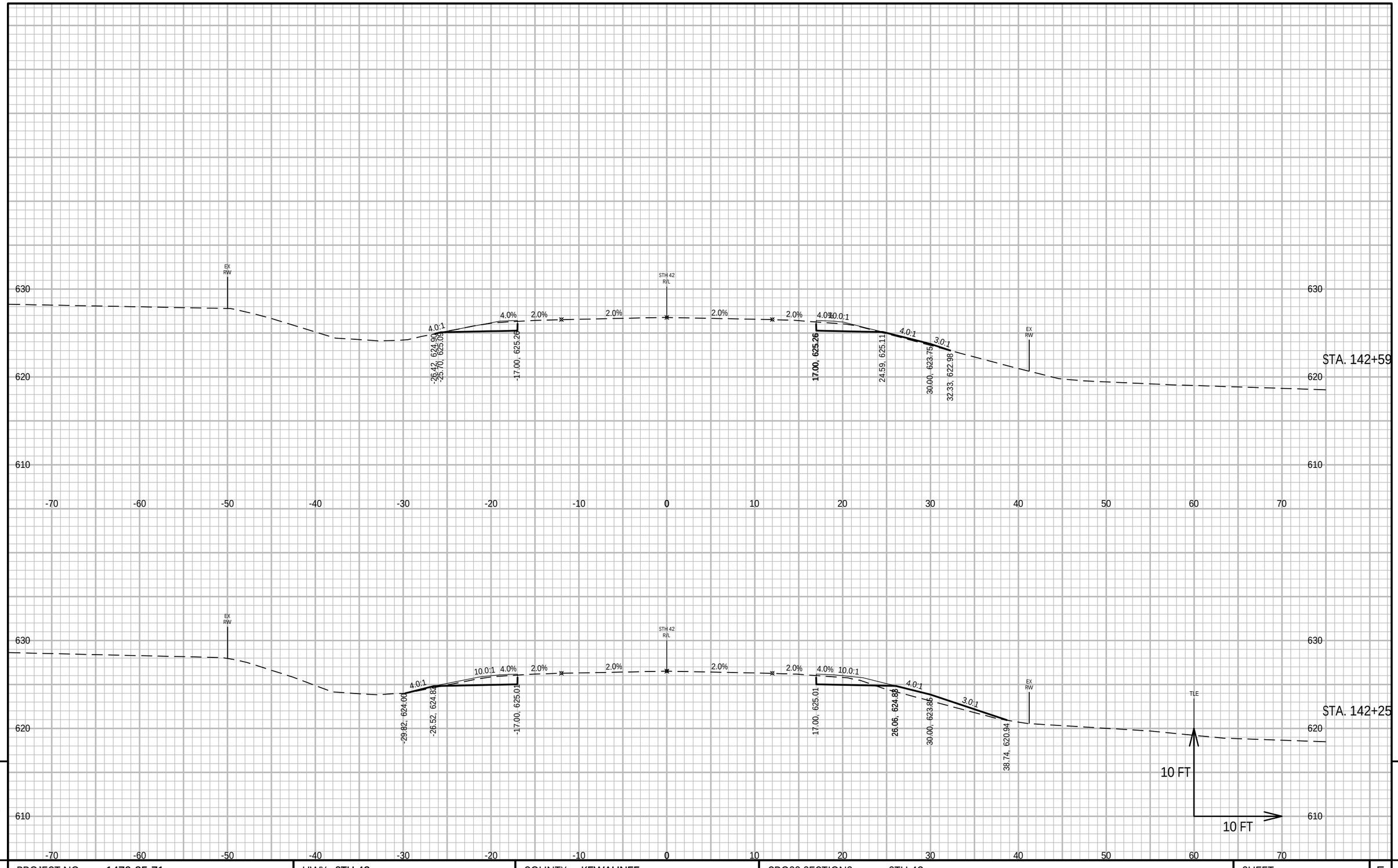
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090227-xs

PLOT DATE : 1/7/2020 1:15 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



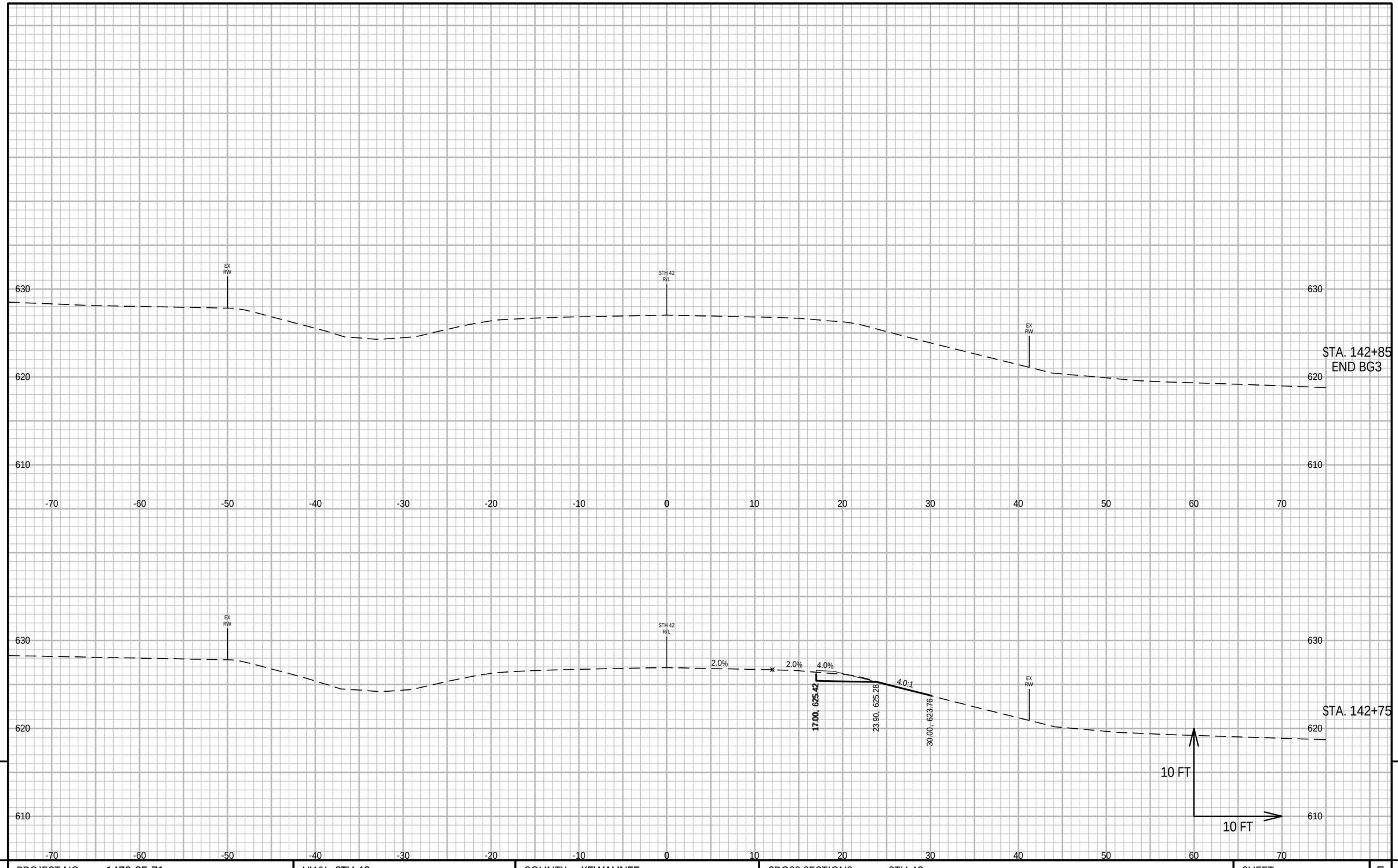
9 9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 203	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090228-xs

PLOT DATE : 1/7/2020 1:16 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 204	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG3-090229-xs

PLOT DATE : 1/7/2020 1:16 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 205	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090201-xs

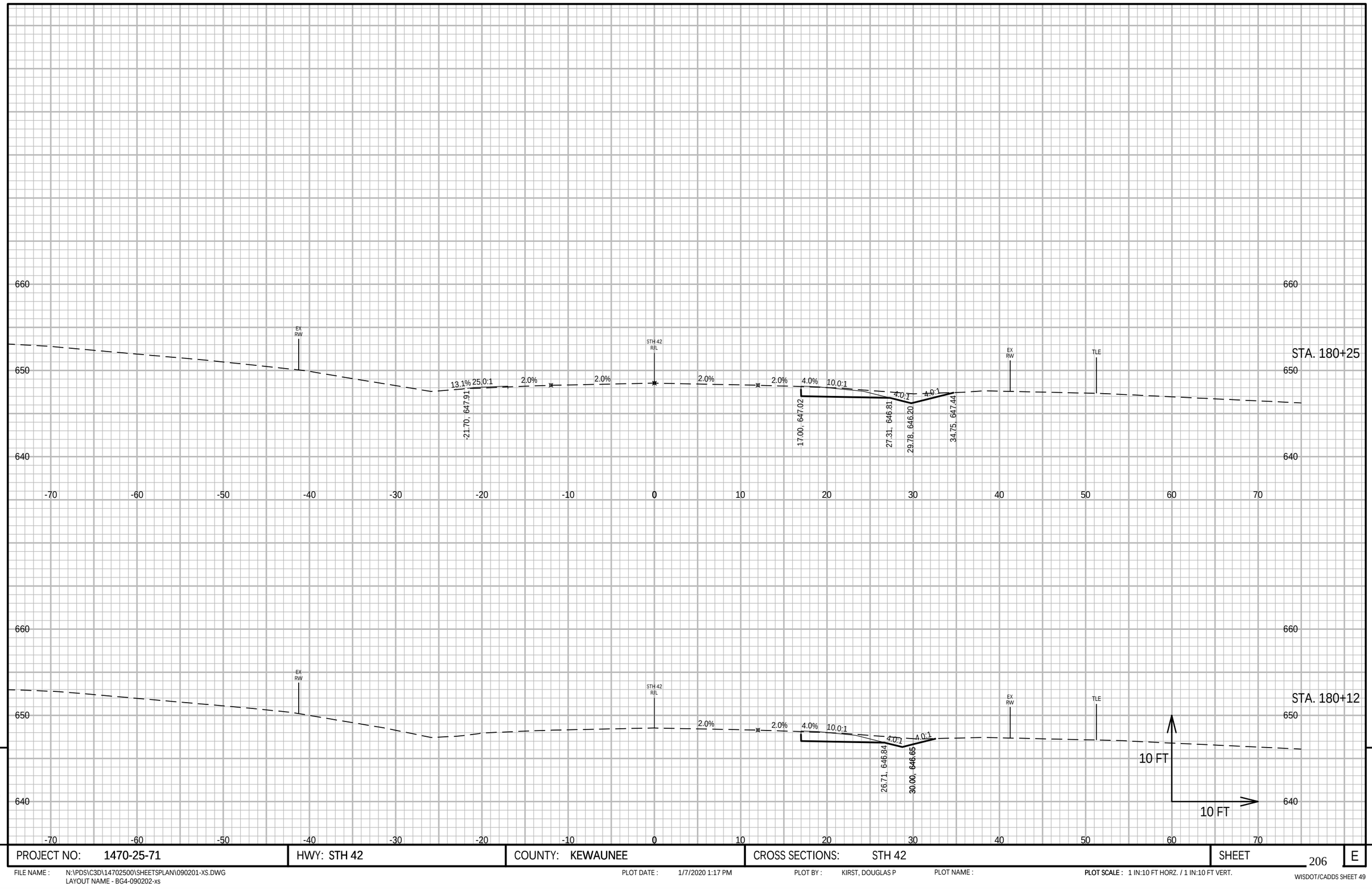
PLOT DATE : 1/7/2020 1:16 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 206	E

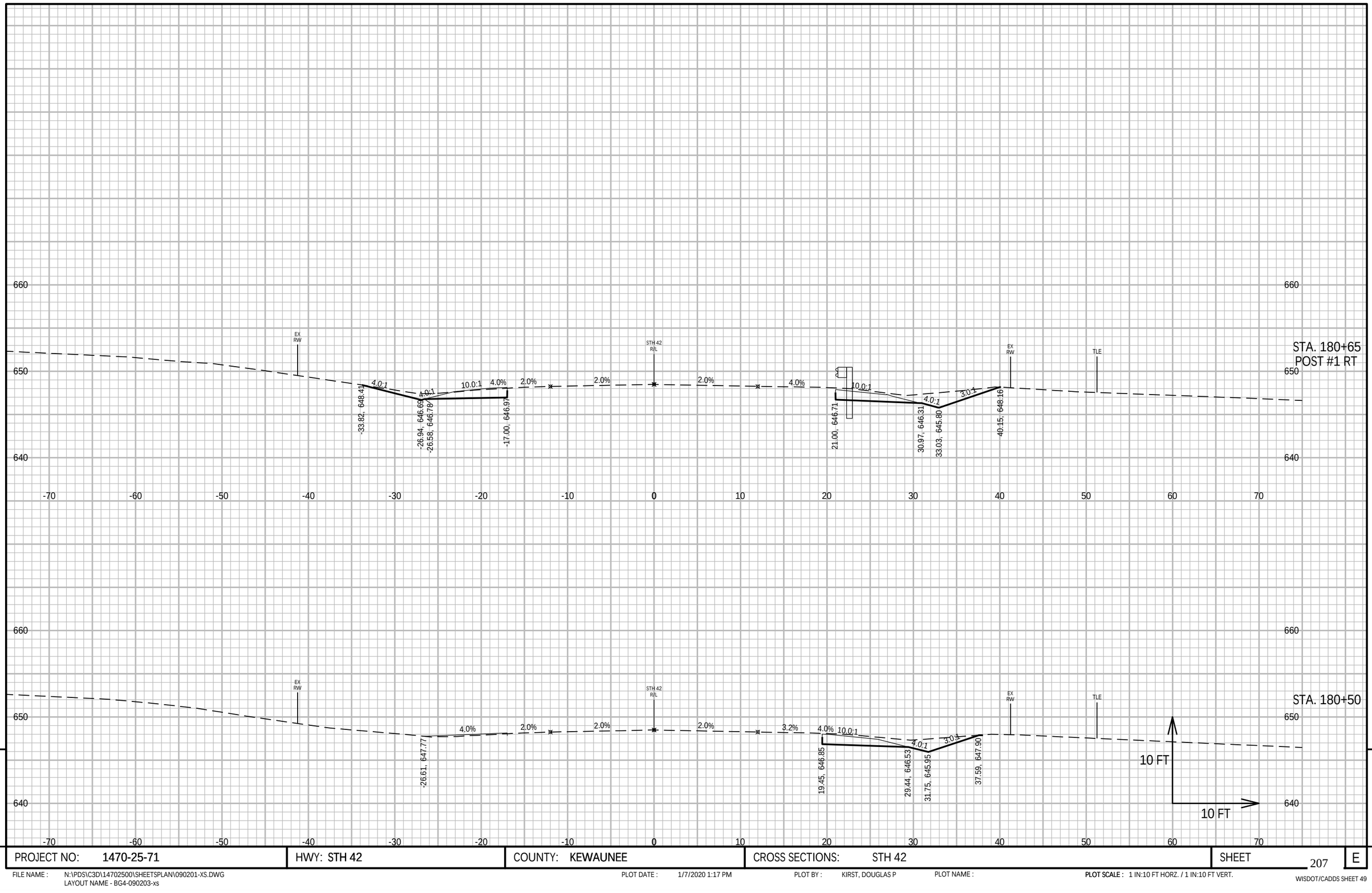
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090202-xs

PLOT DATE : 1/7/2020 1:17 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 207	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090203-xs

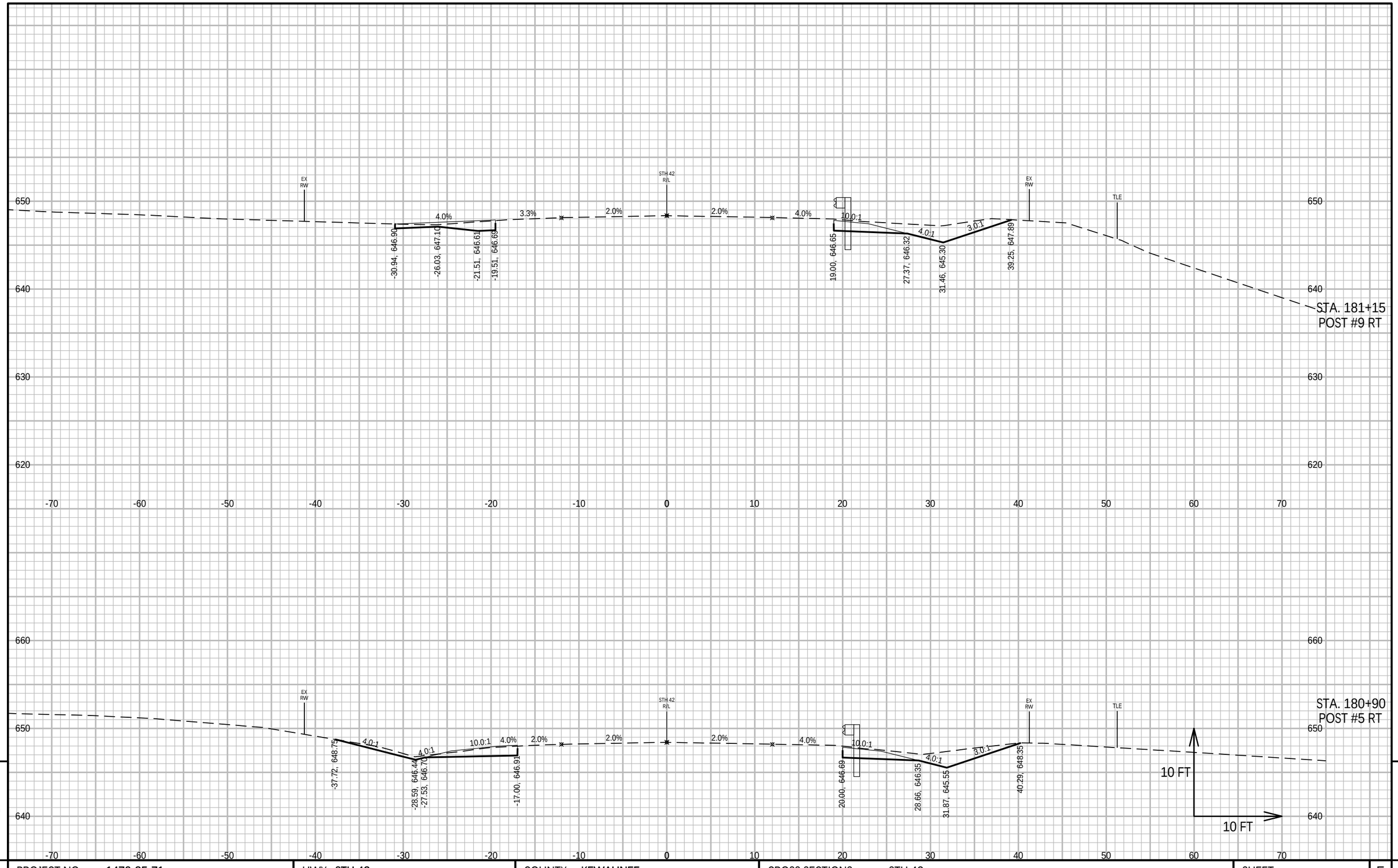
PLOT DATE : 1/7/2020 1:17 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 208	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090204-xs

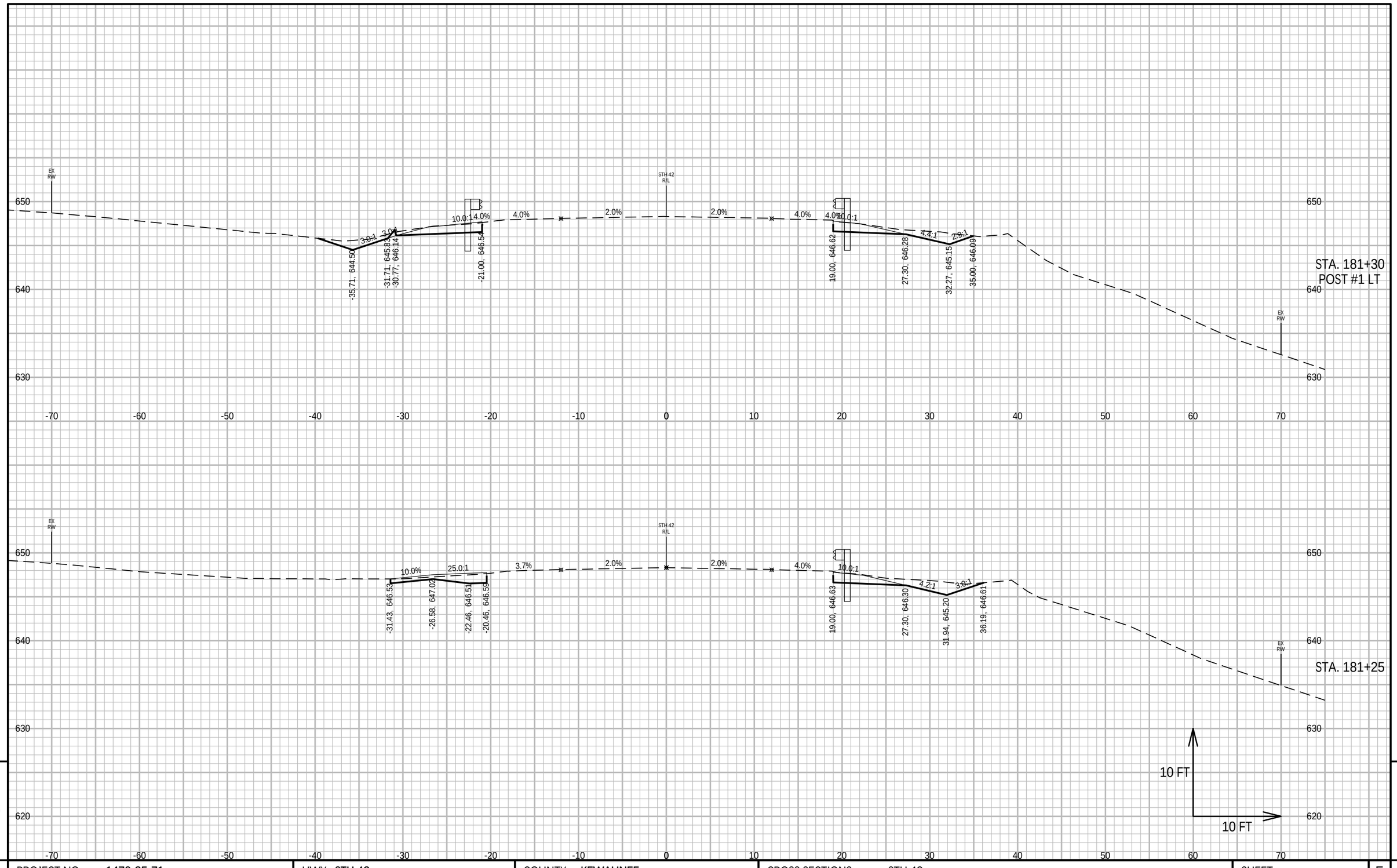
PLOT DATE : 1/7/2020 1:17 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 209	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090205-xs

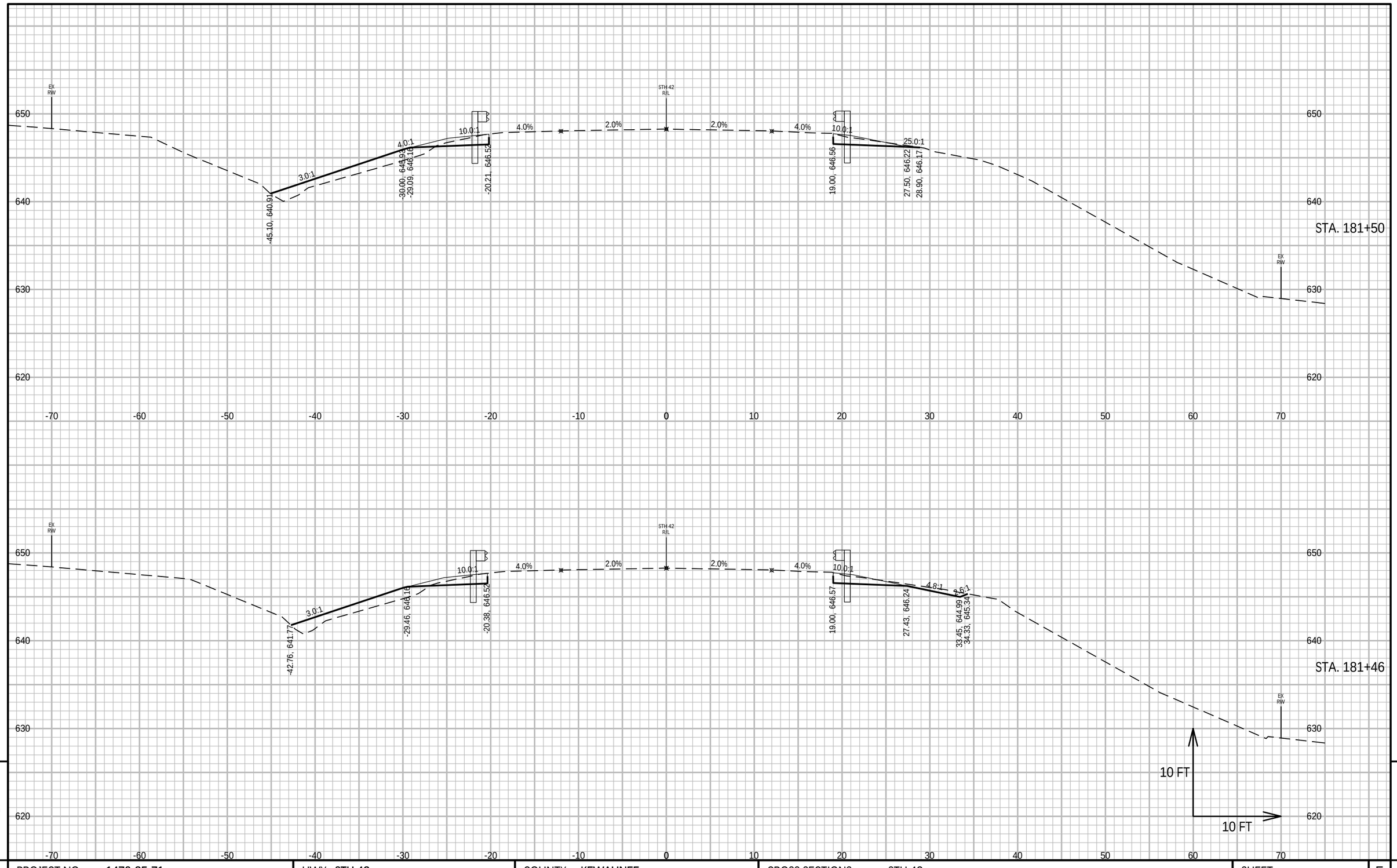
PLOT DATE : 1/7/2020 1:18 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 210	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090206-xs

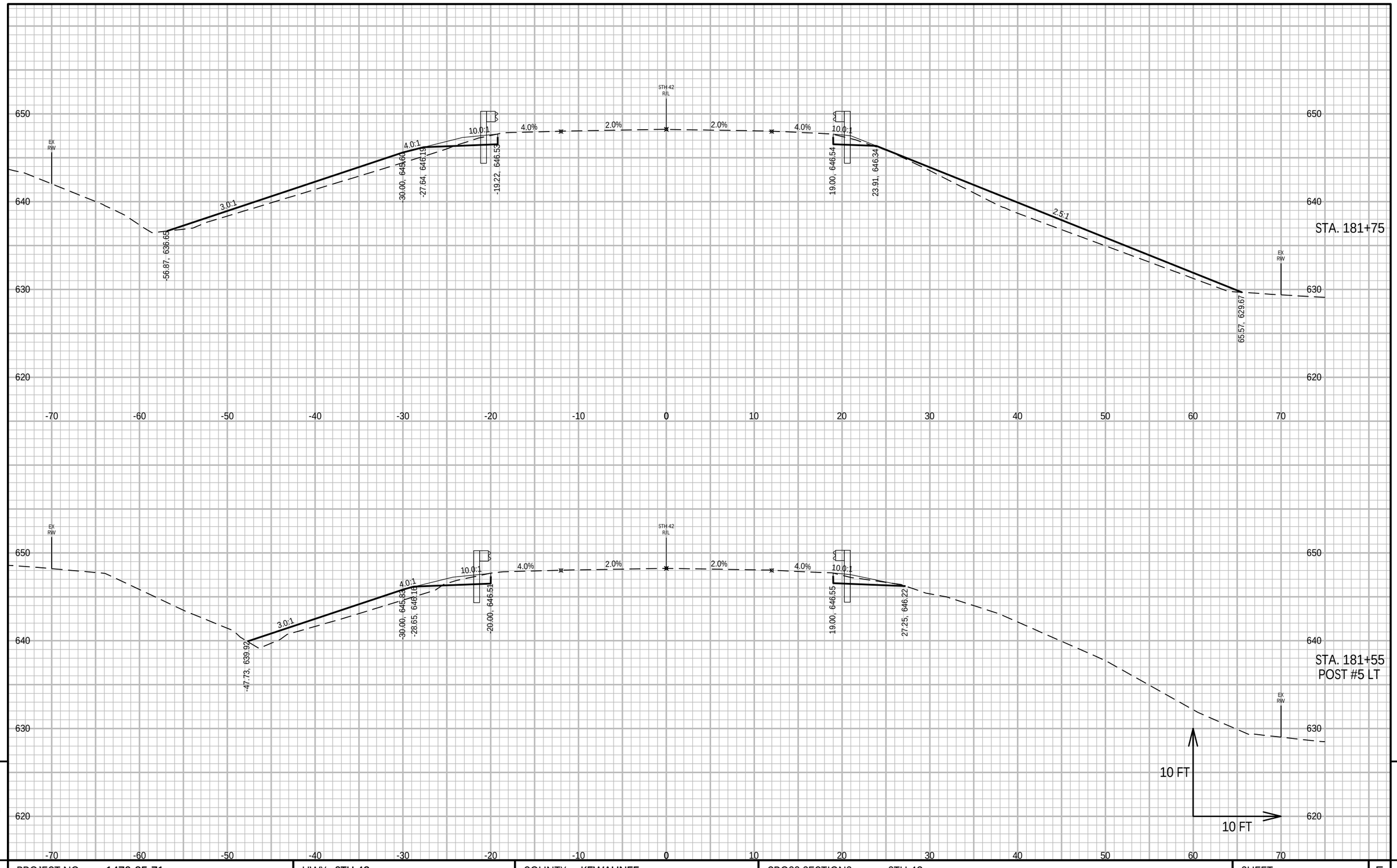
PLOT DATE : 1/7/2020 1:18 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 211	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090207-xs

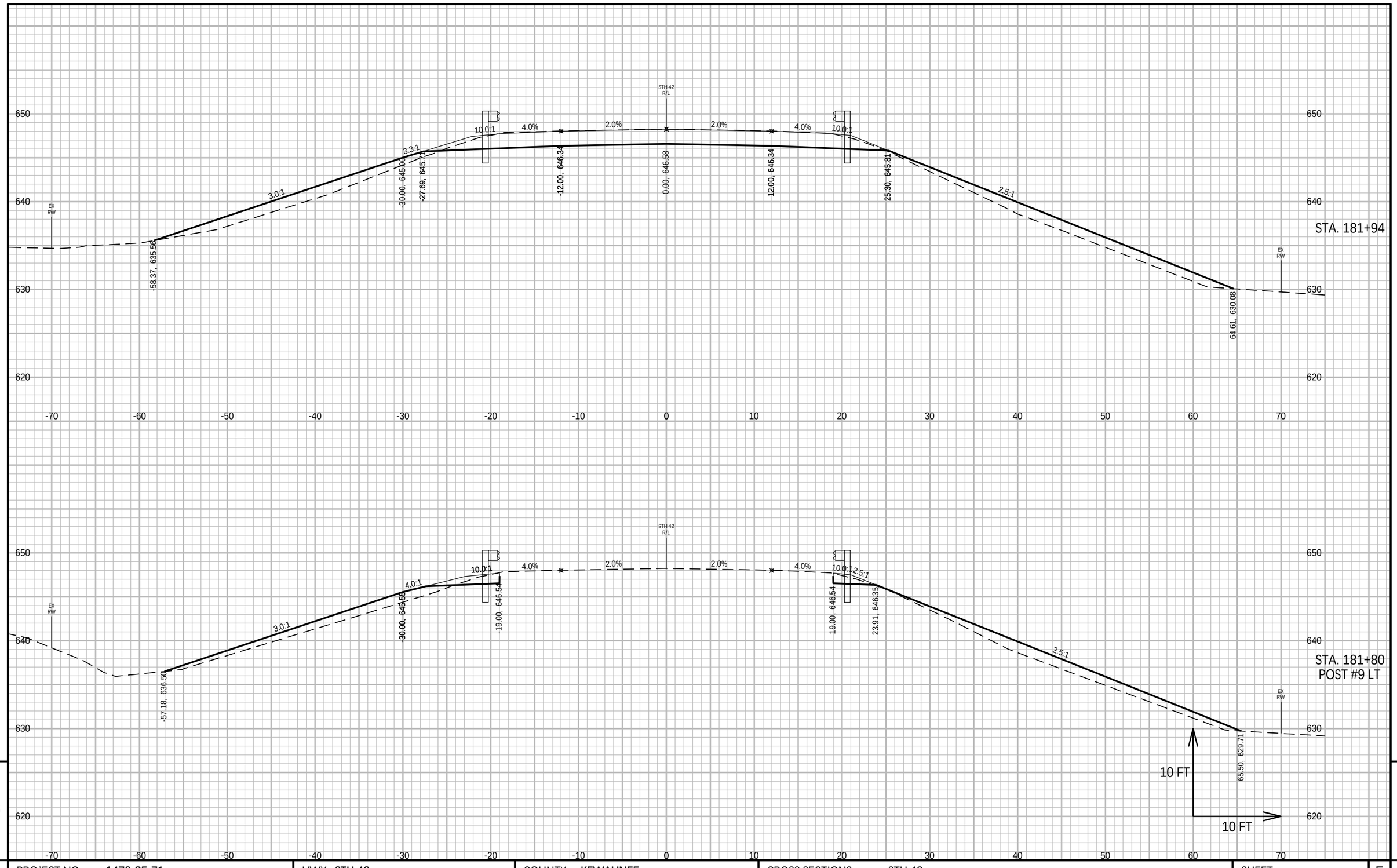
PLOT DATE : 1/7/2020 1:18 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 212	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090208-xs

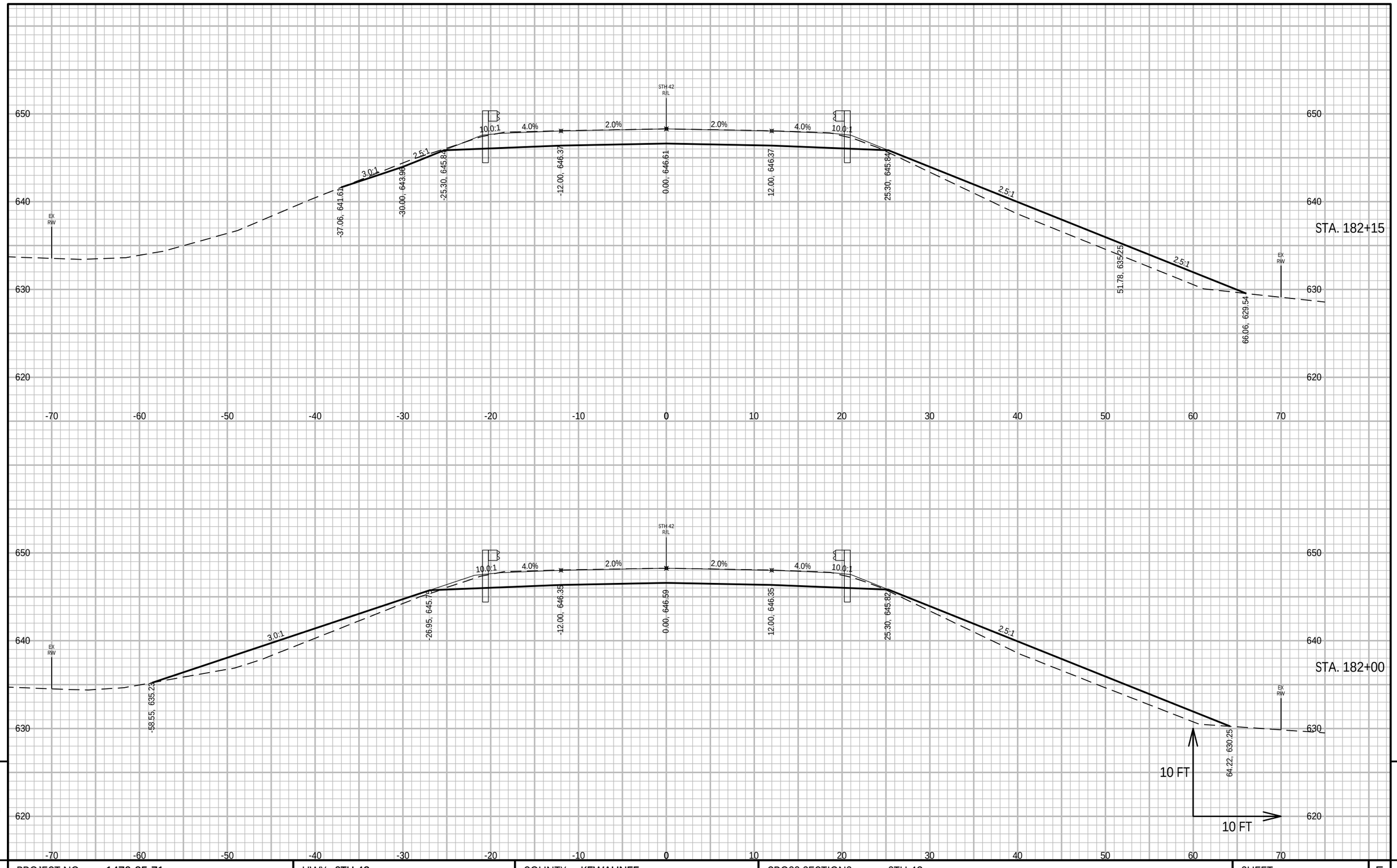
PLOT DATE : 1/7/2020 1:19 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 213	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090209-xs

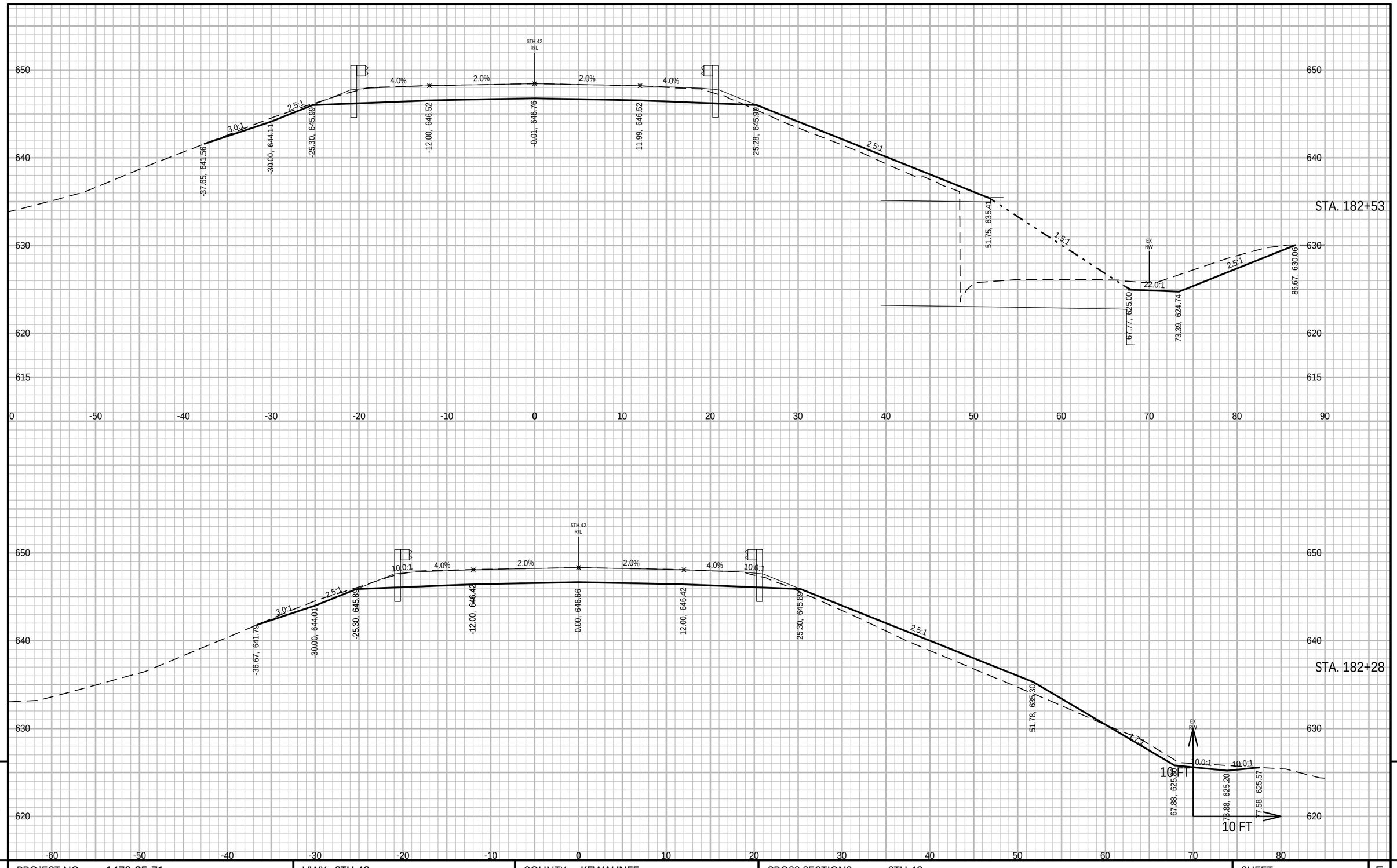
PLOT DATE : 1/7/2020 1:19 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

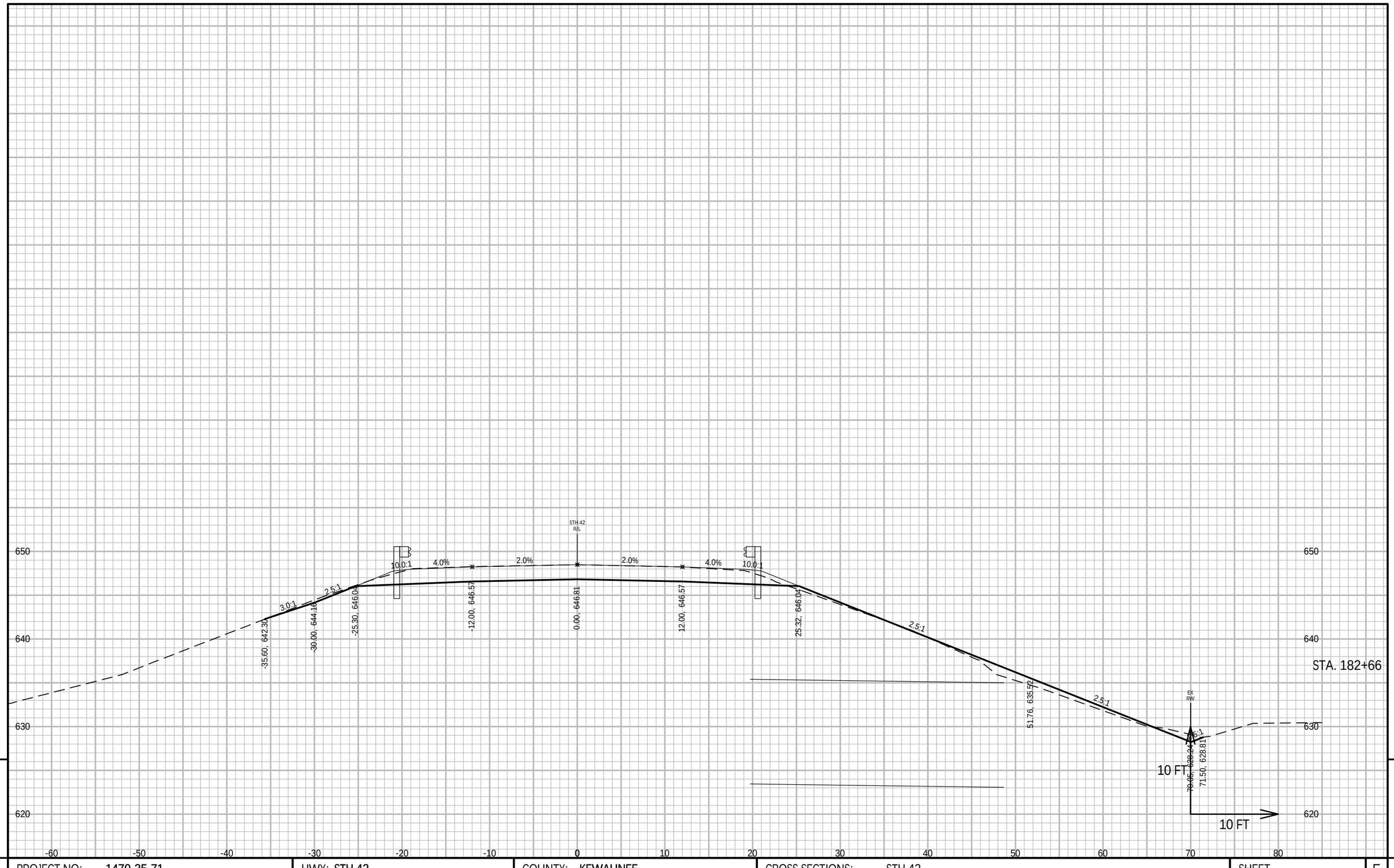


9 9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 214	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090210-xs

PLOT DATE : 1/7/2020 1:20 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 215	E

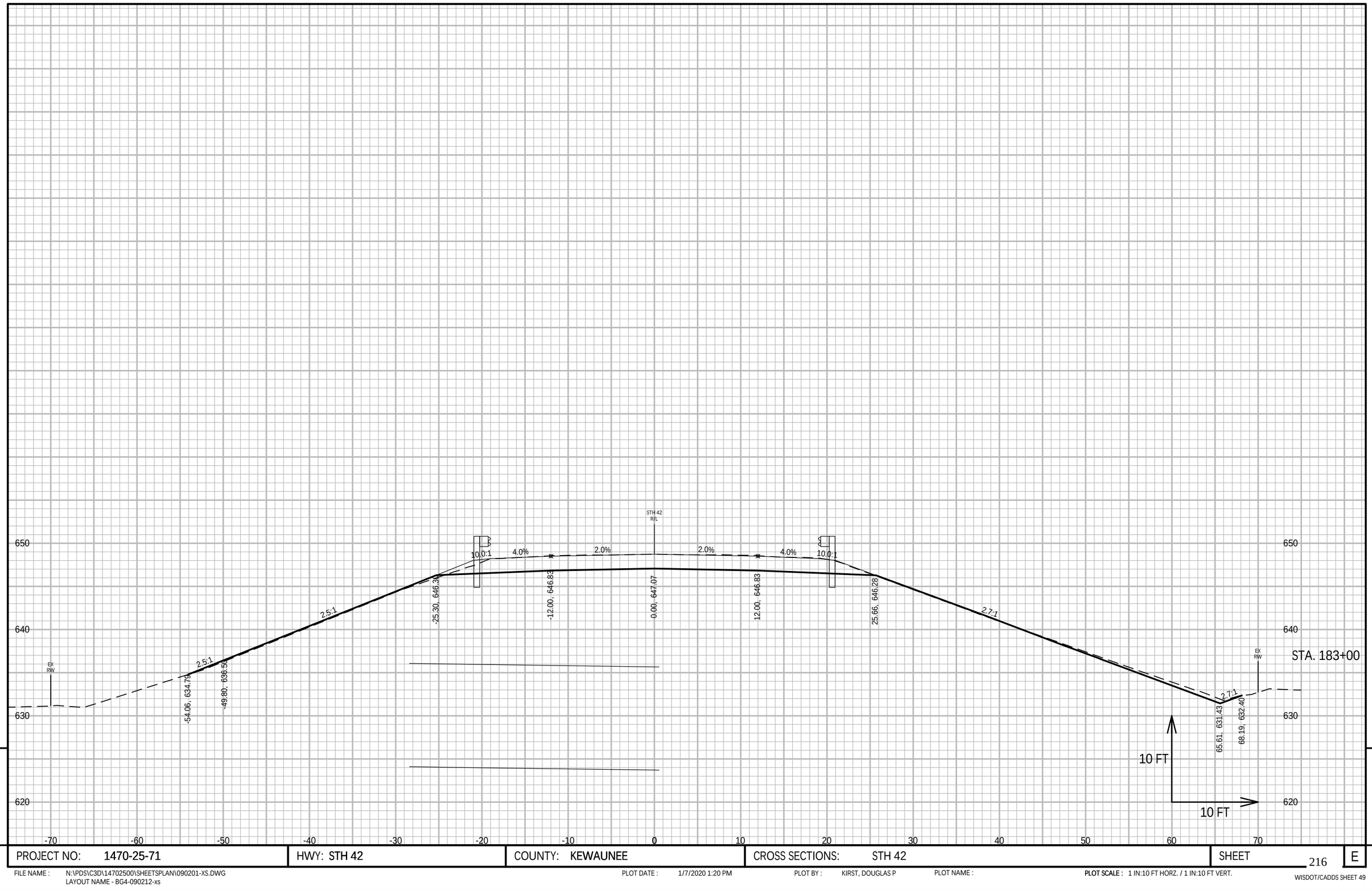
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090211-xs

PLOT DATE : 1/7/2020 1:20 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 216	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090212-xs

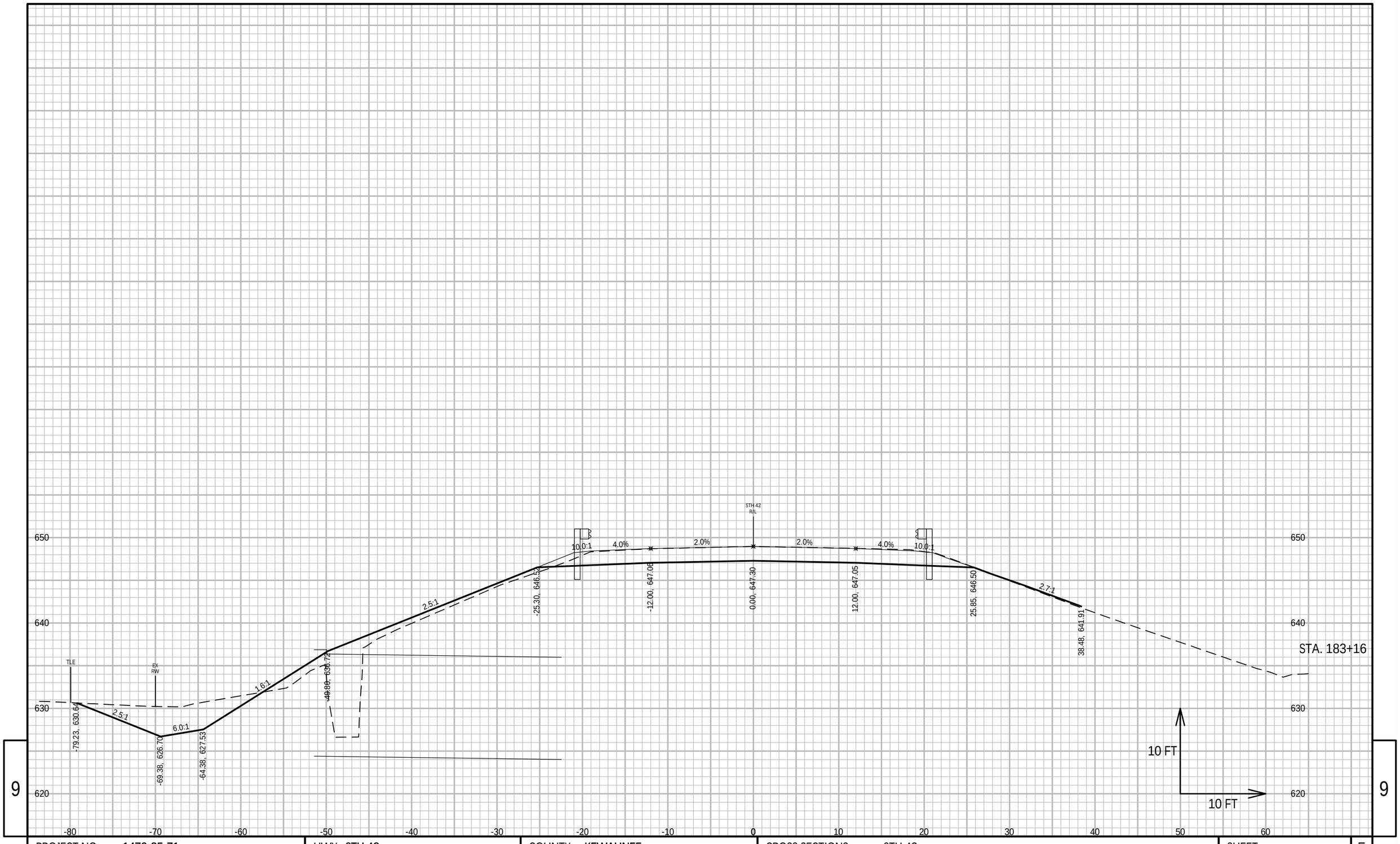
PLOT DATE : 1/7/2020 1:20 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



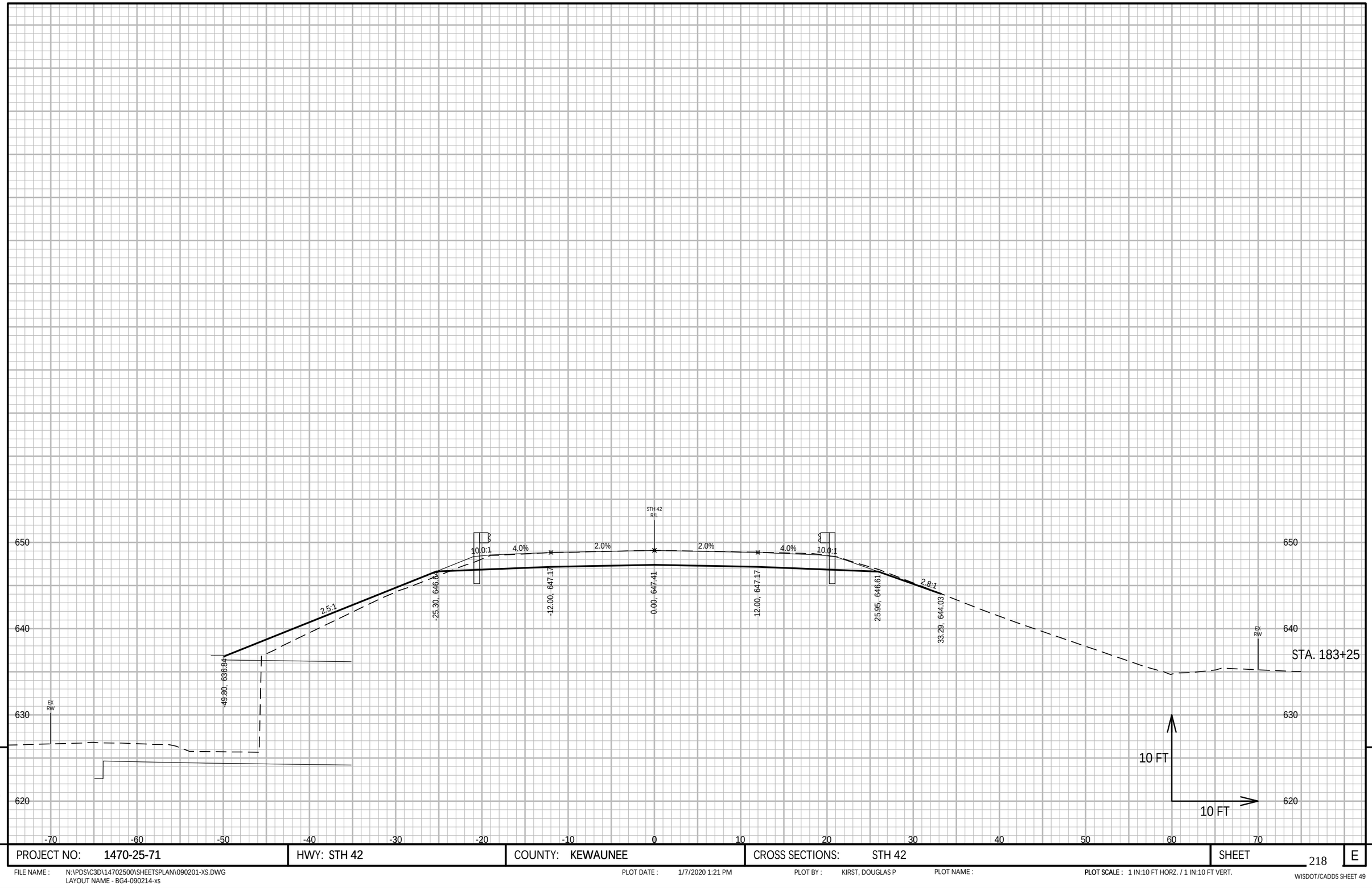
9 9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 217	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090213-xs

PLOT DATE : 1/7/2020 1:21 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 218	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090214-xs

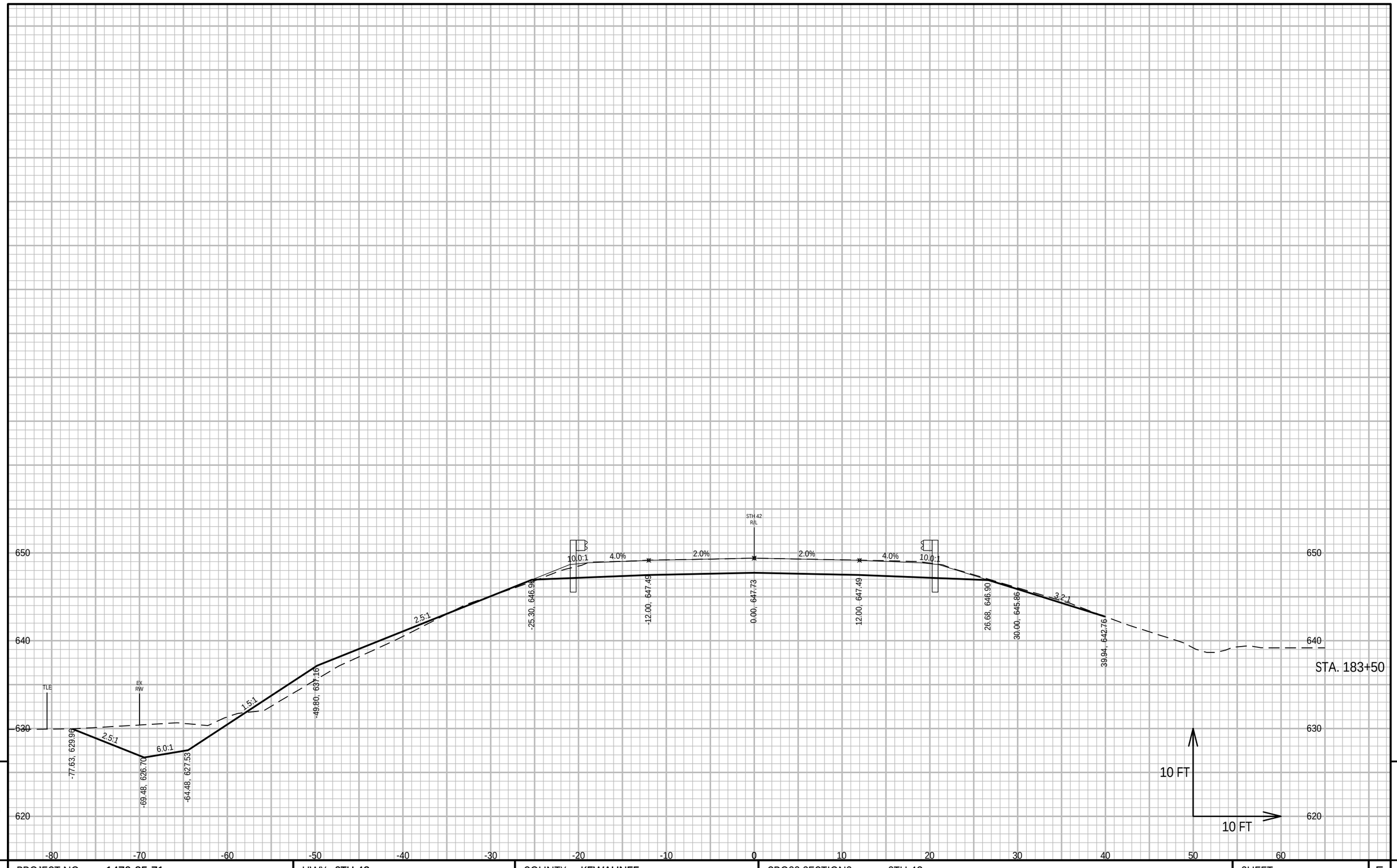
PLOT DATE : 1/7/2020 1:21 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 219	E

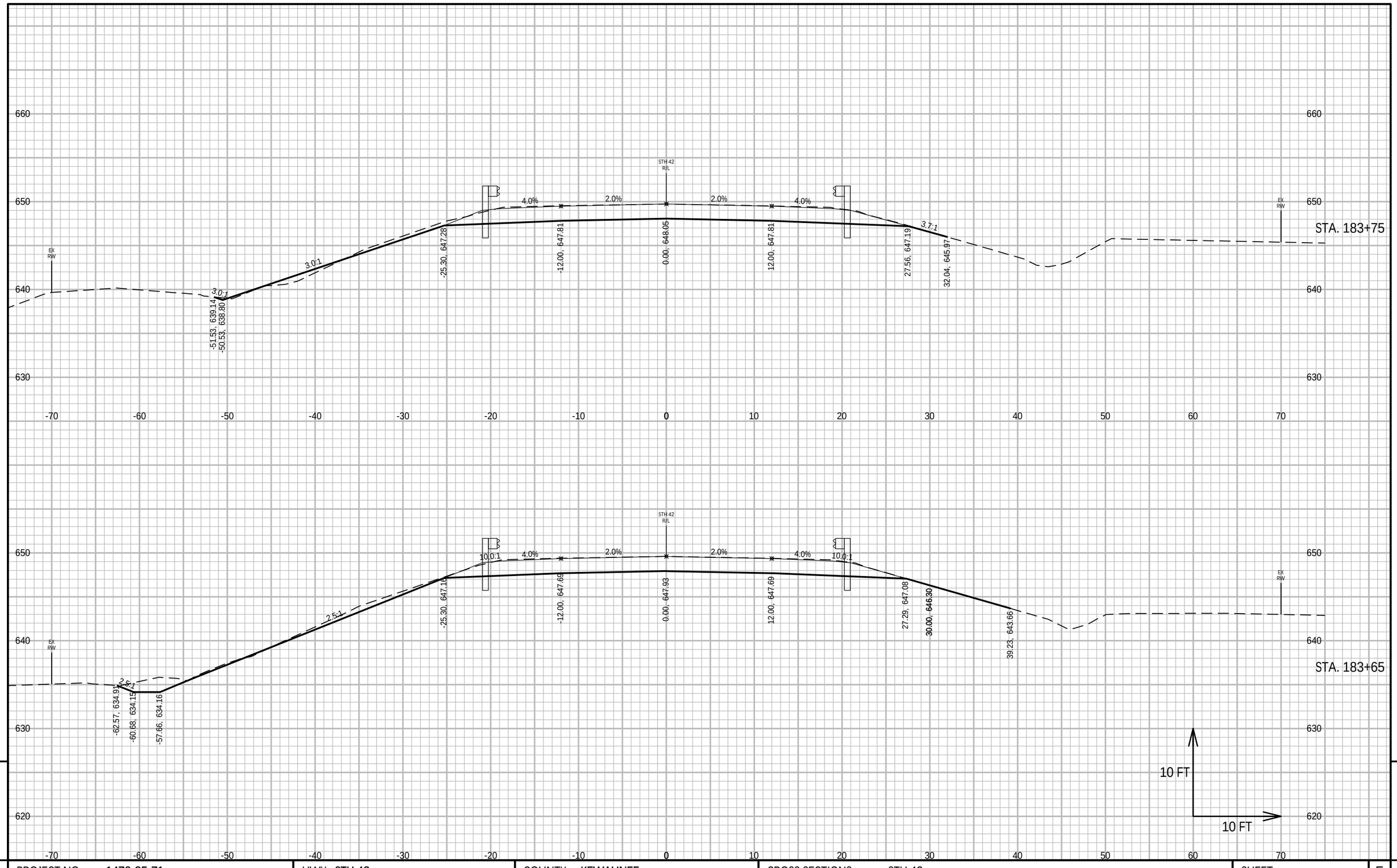
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090215-xs

PLOT DATE : 1/7/2020 1:21 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 220	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090216-xs

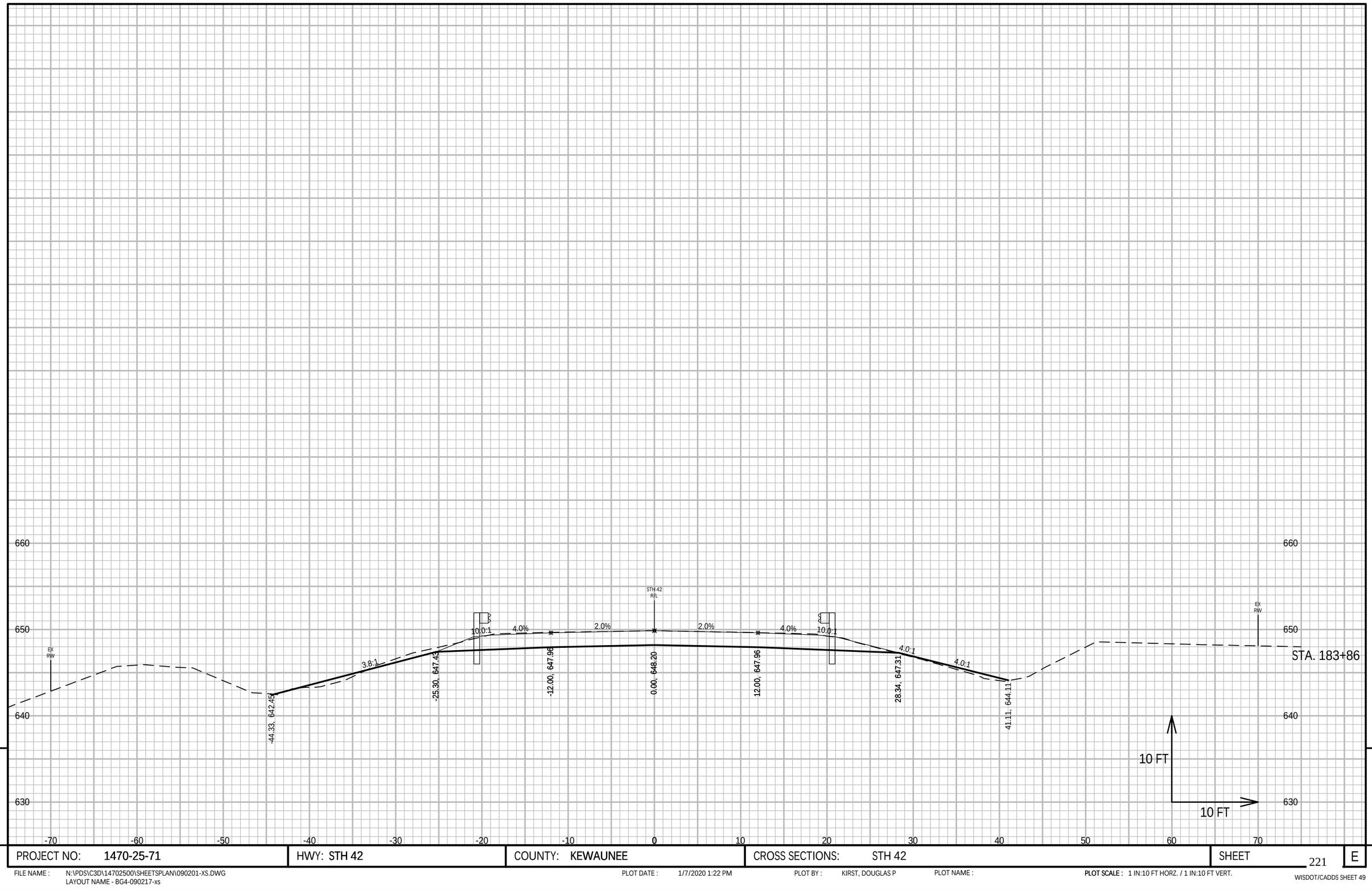
PLOT DATE : 1/7/2020 1:22 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 221	E

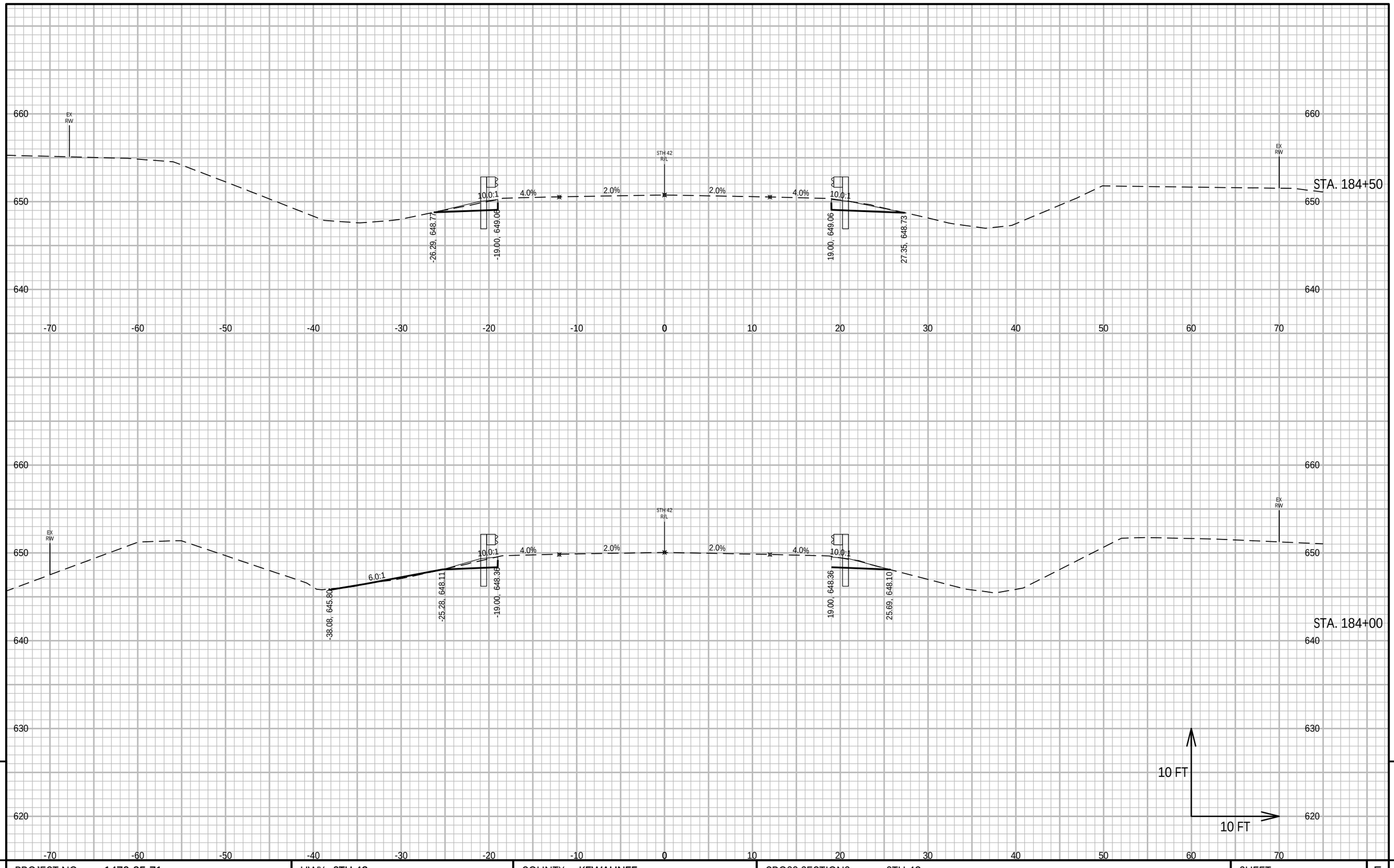
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090217-xs

PLOT DATE : 1/7/2020 1:22 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 222	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090218-xs

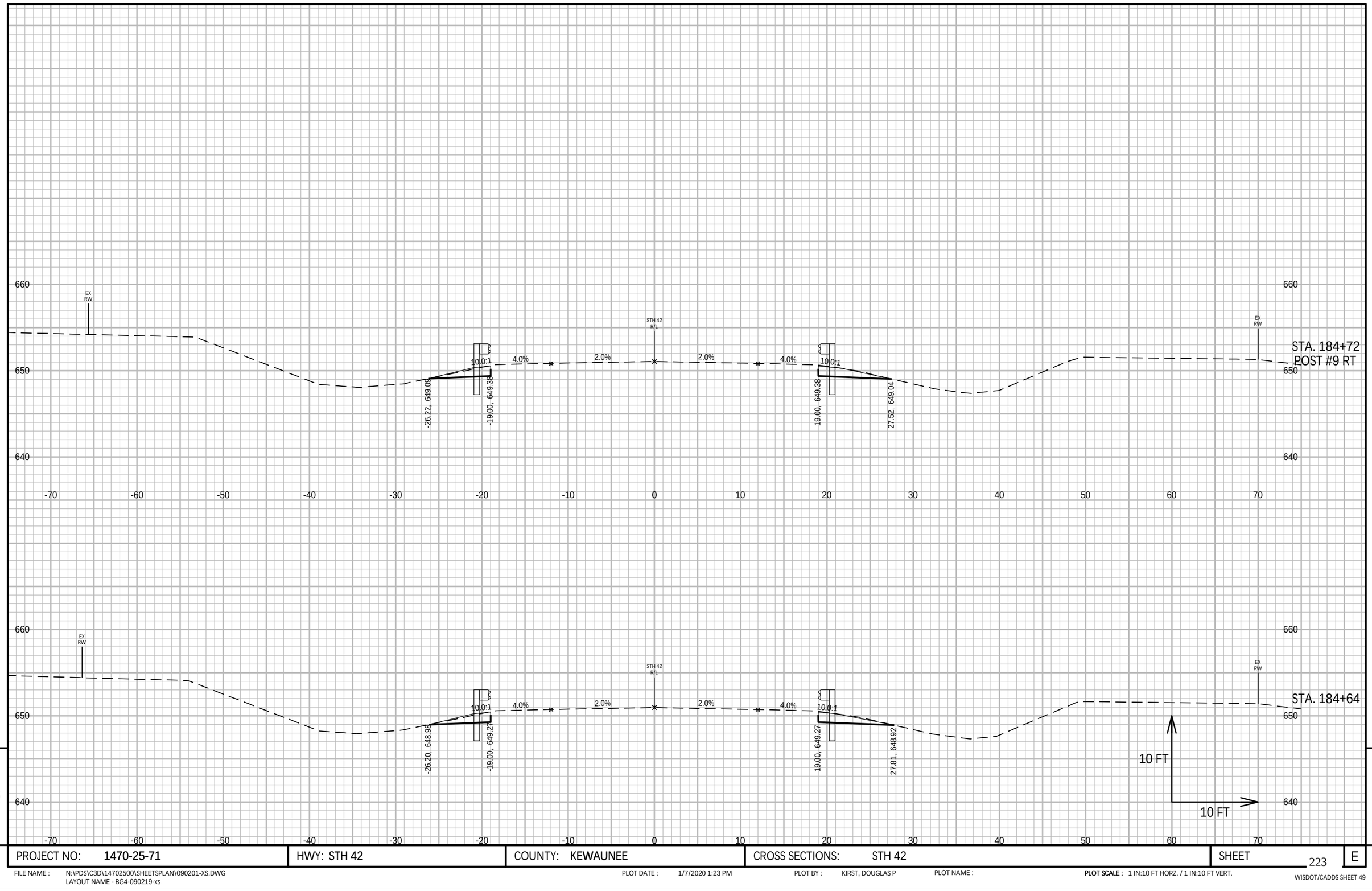
PLOT DATE : 1/7/2020 1:23 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 223	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090219-xs

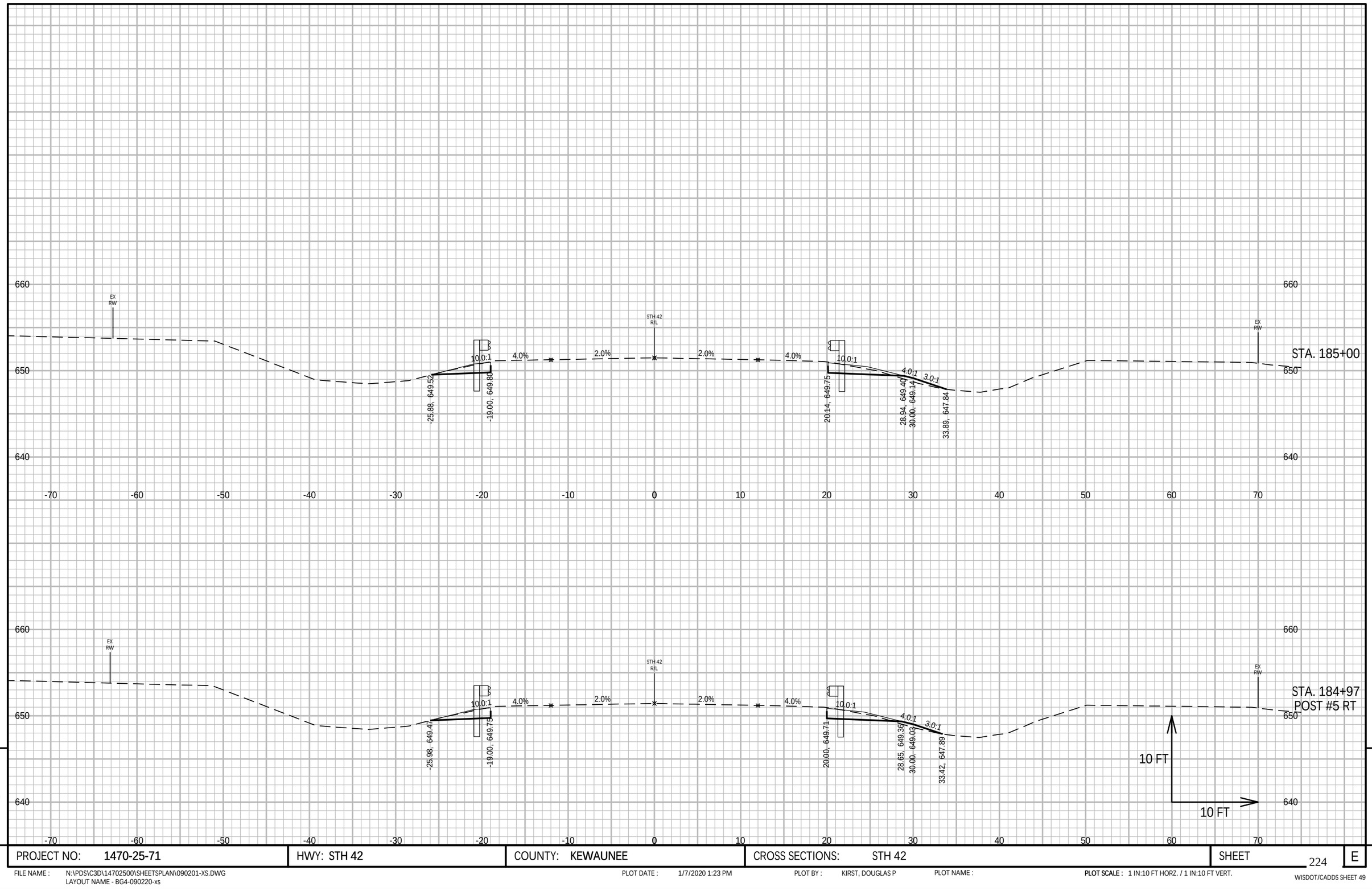
PLOT DATE : 1/7/2020 1:23 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 224	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090220-xs

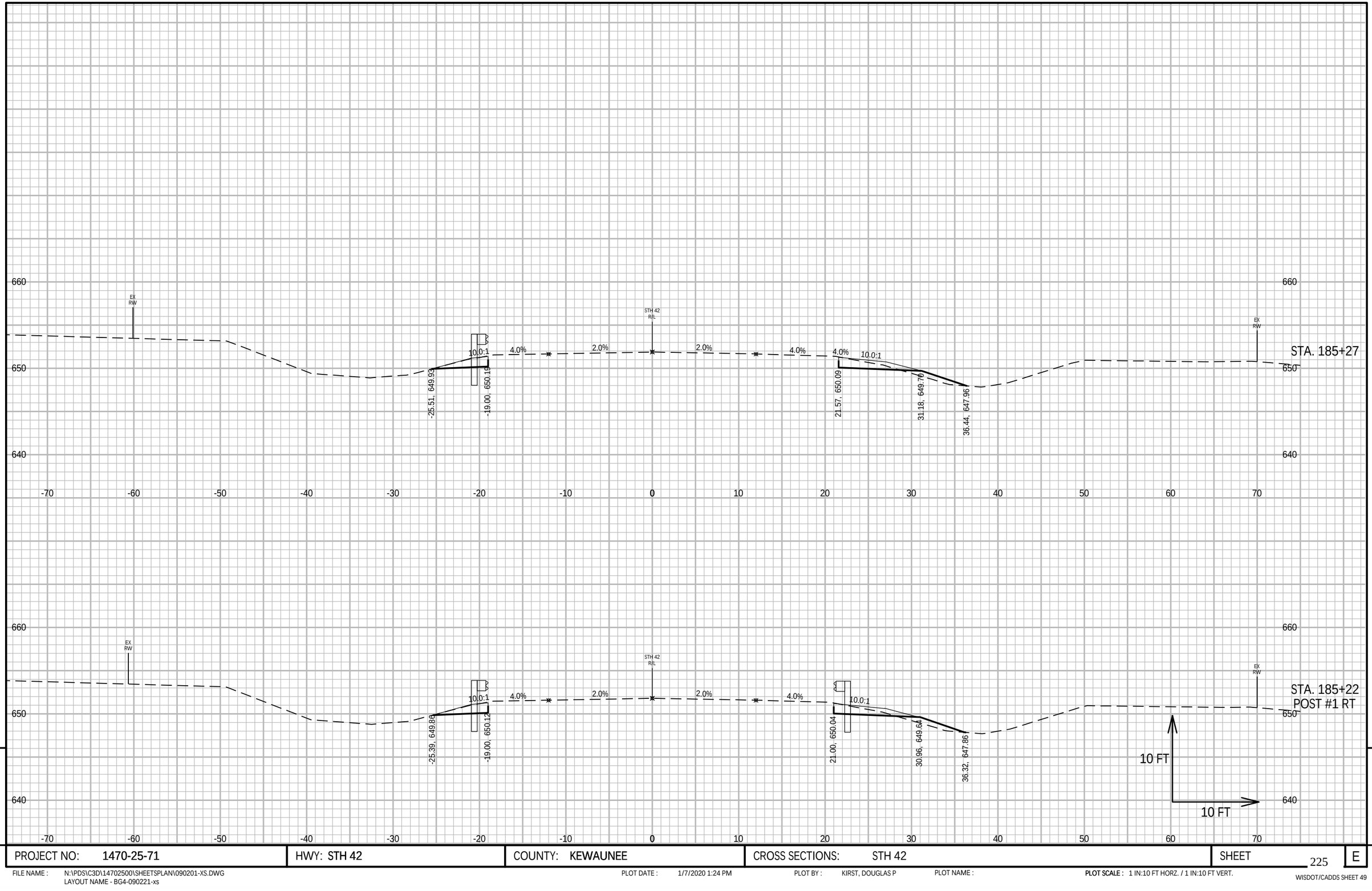
PLOT DATE : 1/7/2020 1:23 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 225	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090221-xs

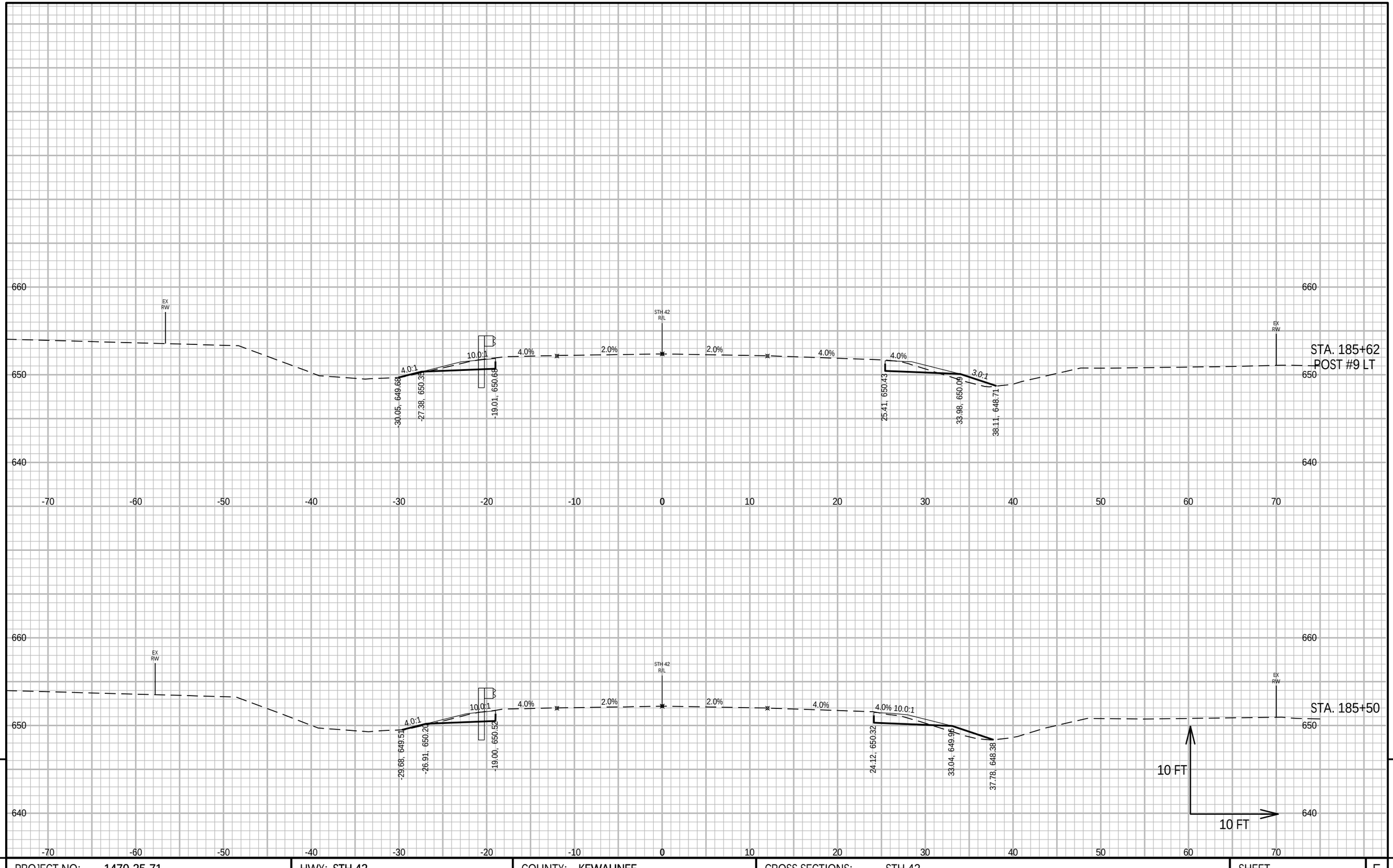
PLOT DATE : 1/7/2020 1:24 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

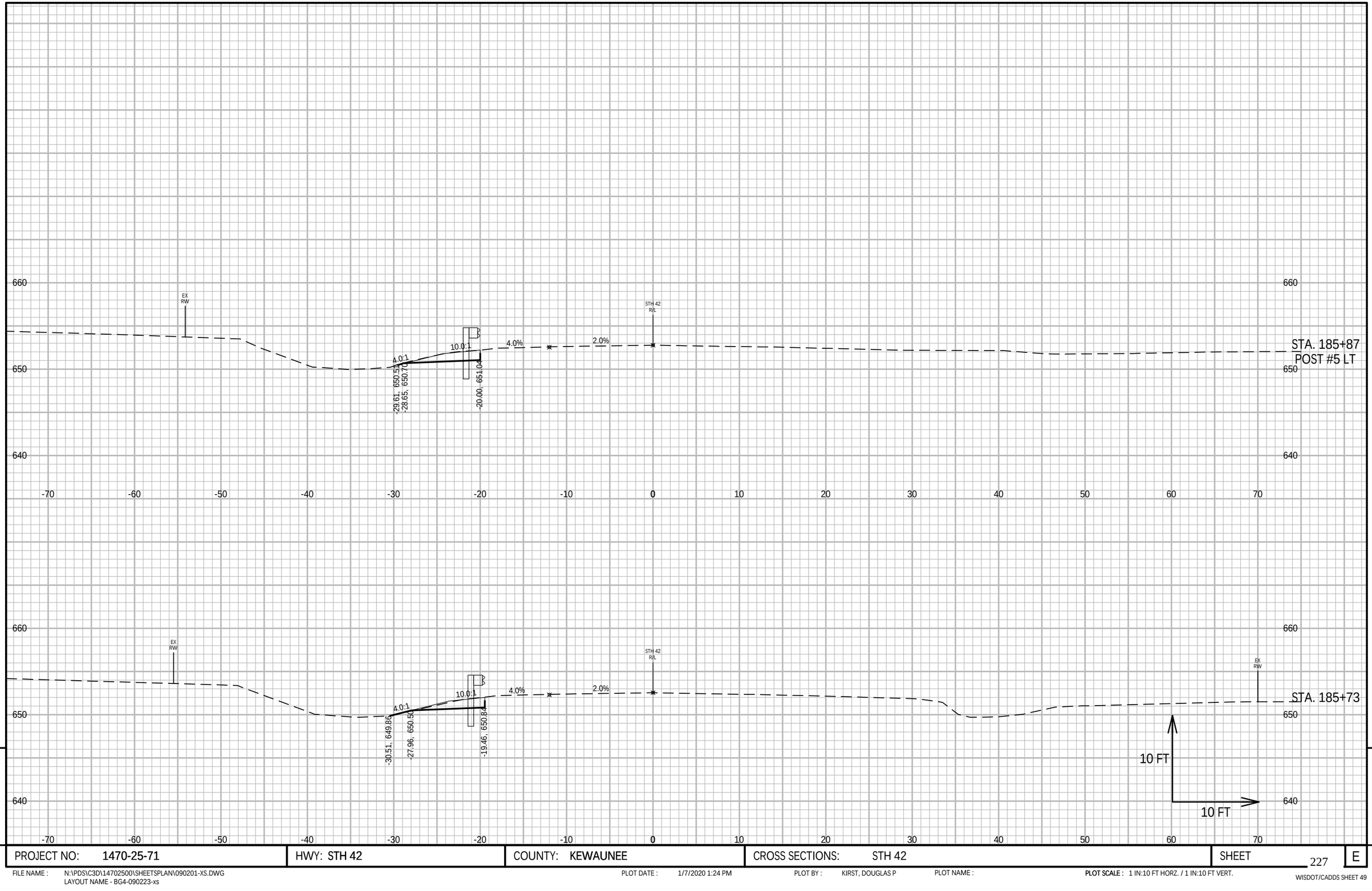


PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 226	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090222-xs

PLOT DATE : 1/7/2020 1:24 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 227	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090223-xs

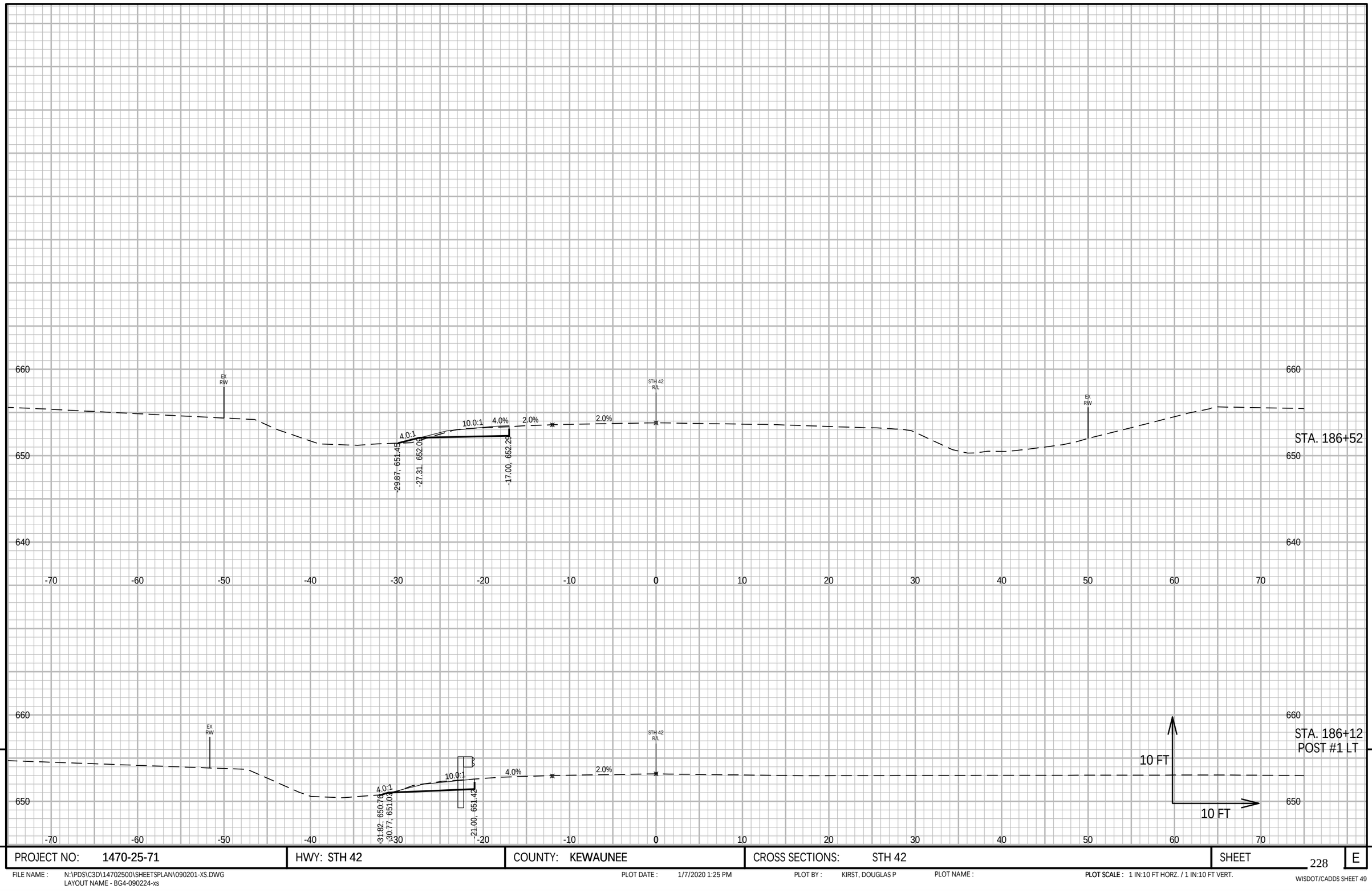
PLOT DATE : 1/7/2020 1:24 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 228	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090224-xs

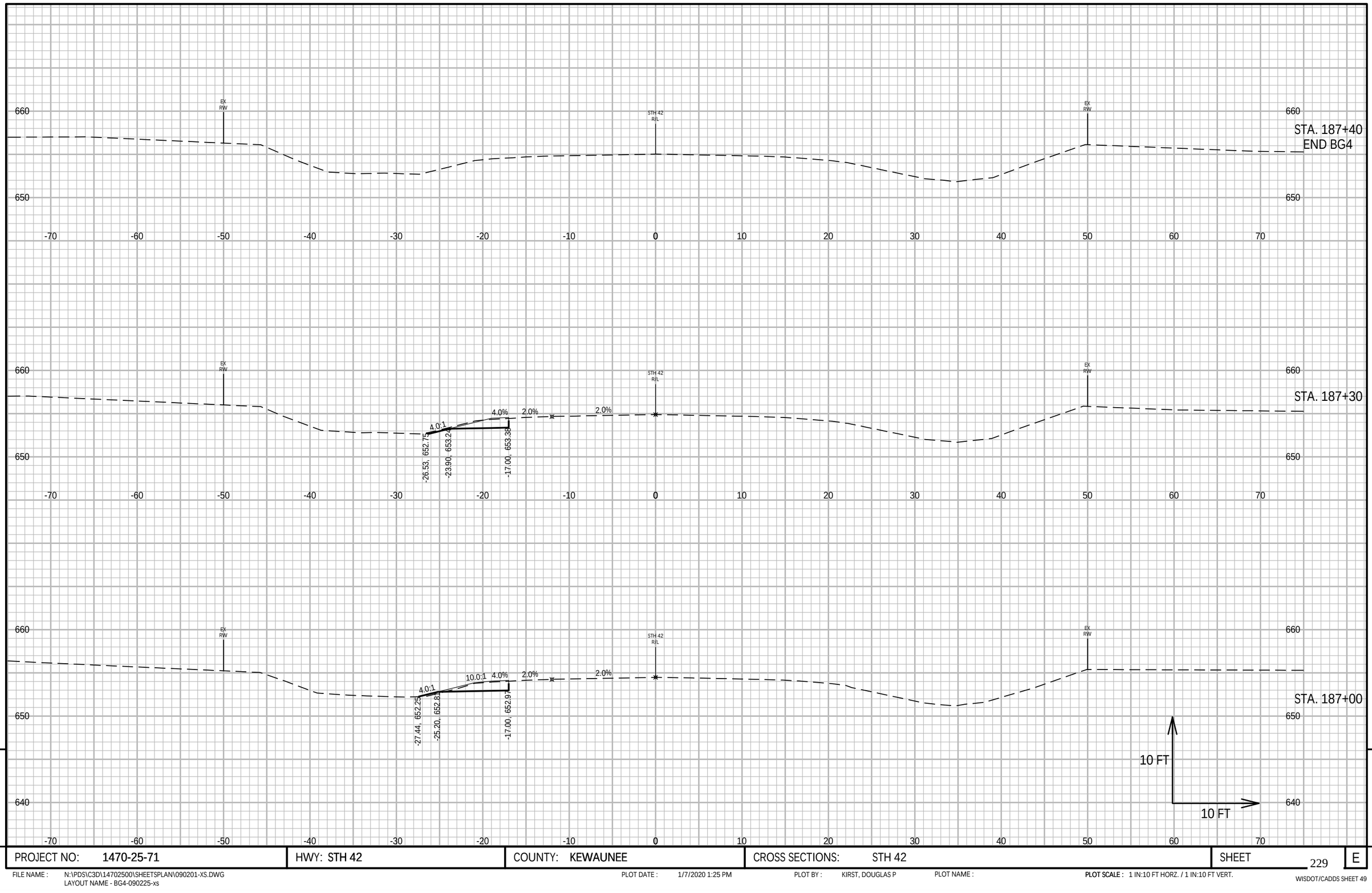
PLOT DATE : 1/7/2020 1:25 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 229	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG4-090225-xs

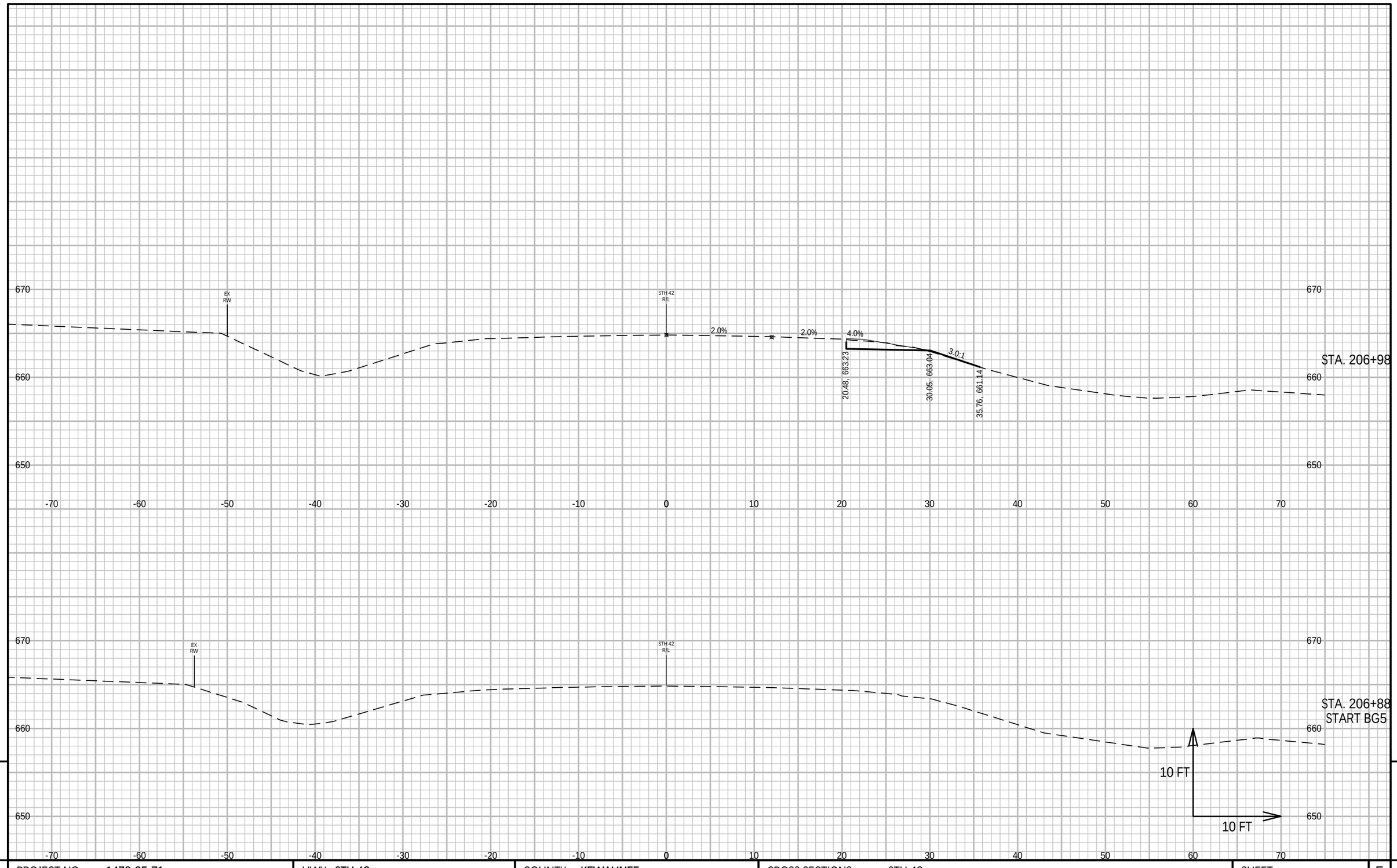
PLOT DATE : 1/7/2020 1:25 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 230	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090201-xs

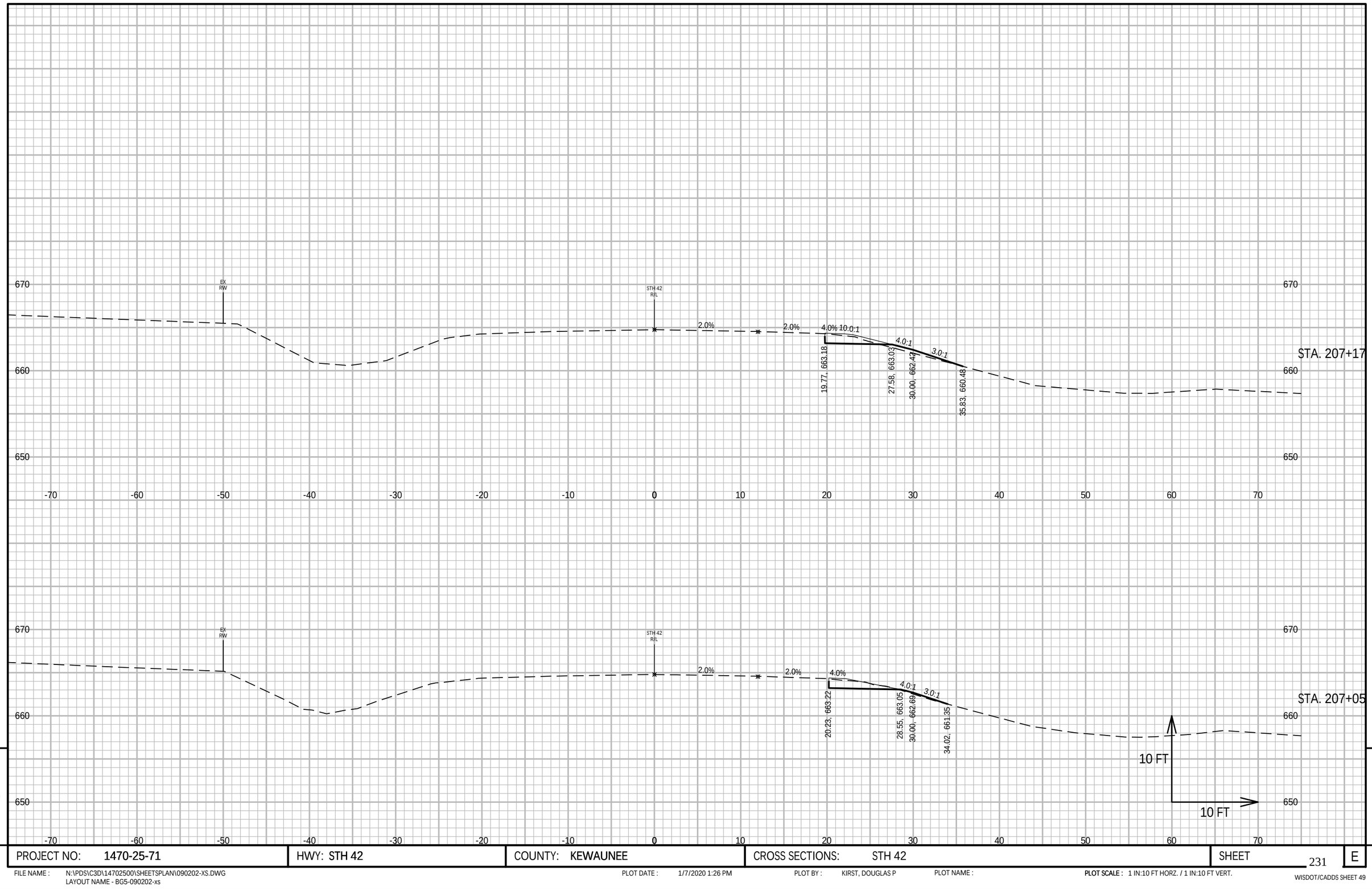
PLOT DATE : 1/7/2020 1:26 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 231	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090202-xs

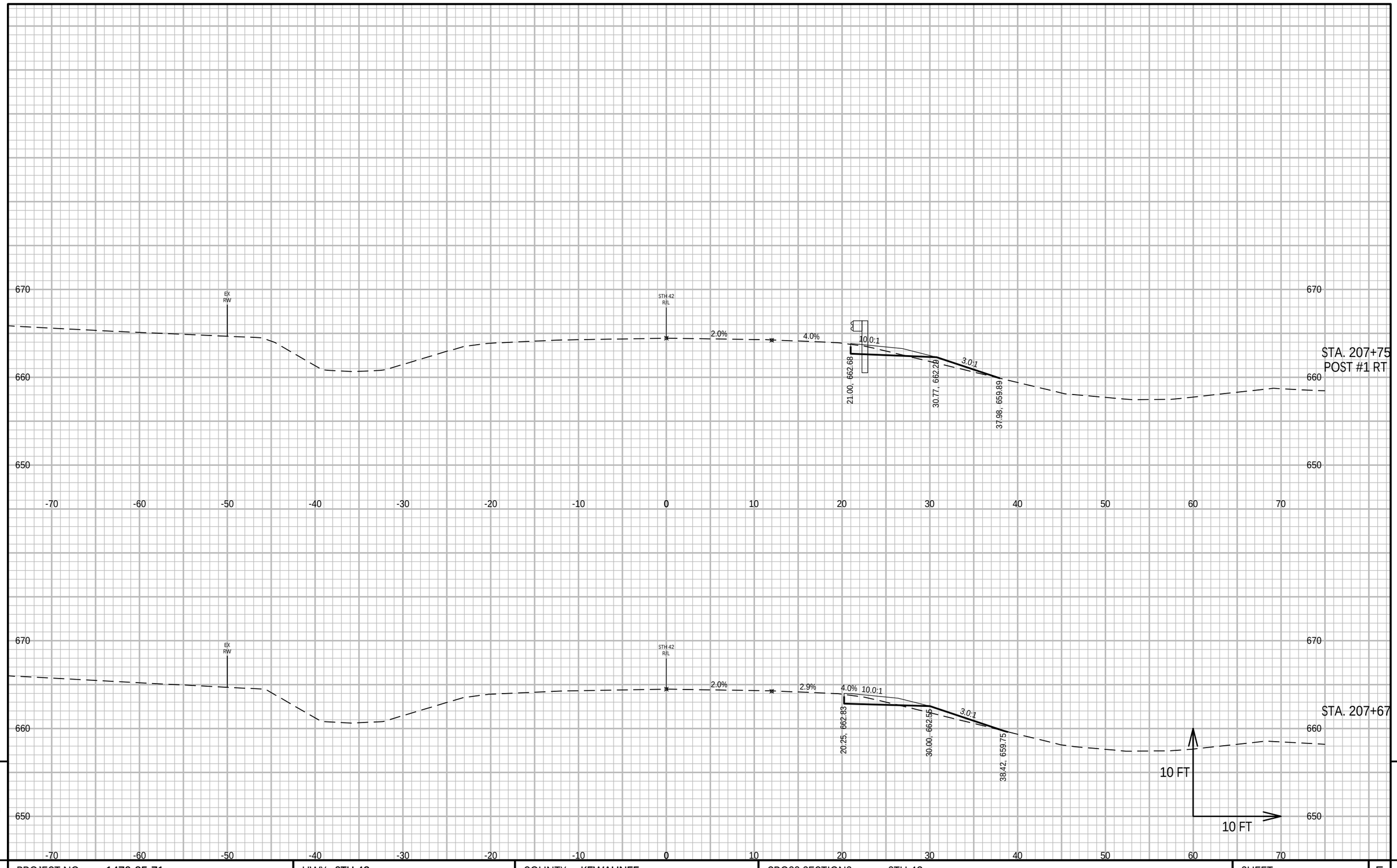
PLOT DATE : 1/7/2020 1:26 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 232	E

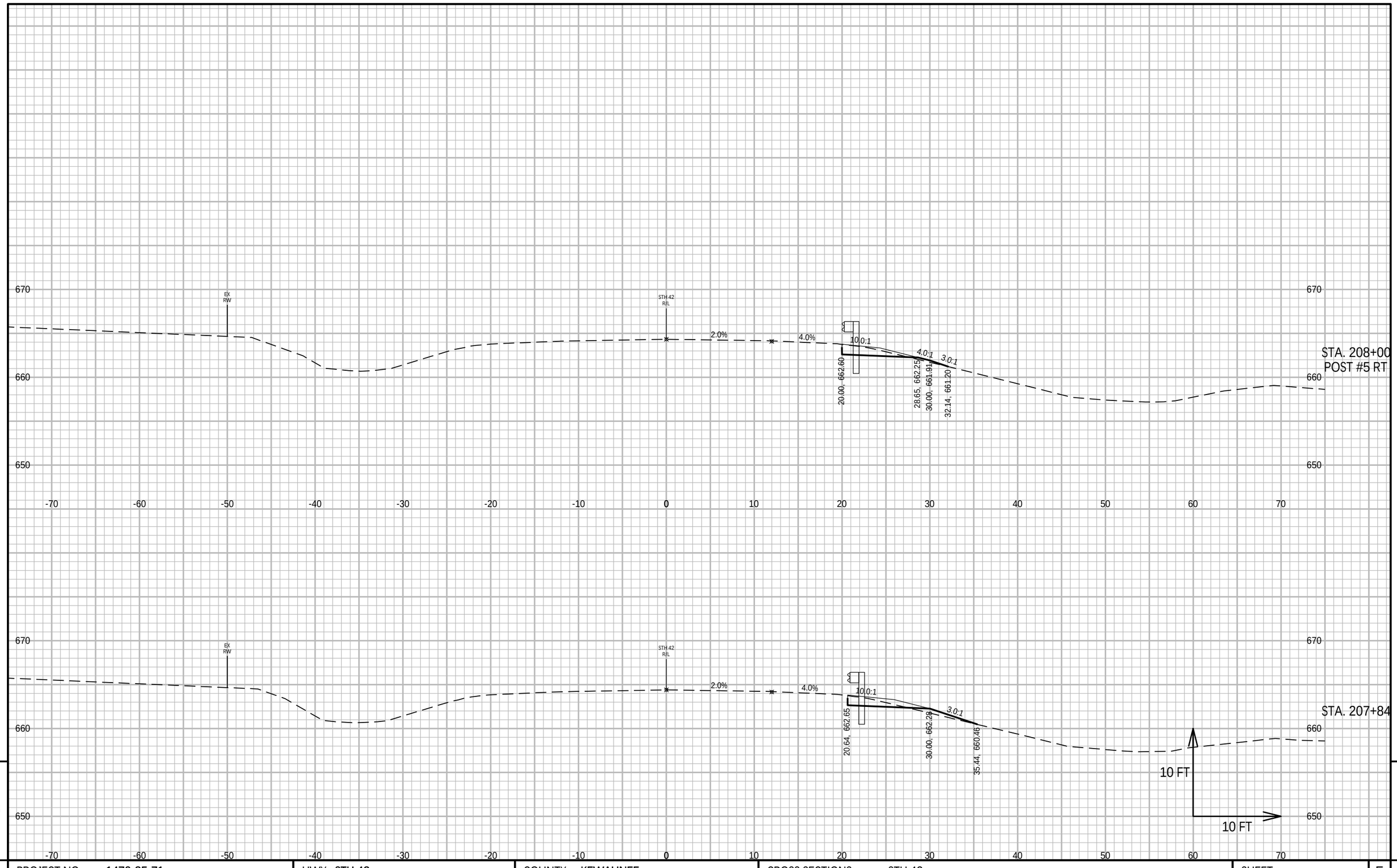
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090203-xs

PLOT DATE : 1/7/2020 1:26 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 233	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090204-xs

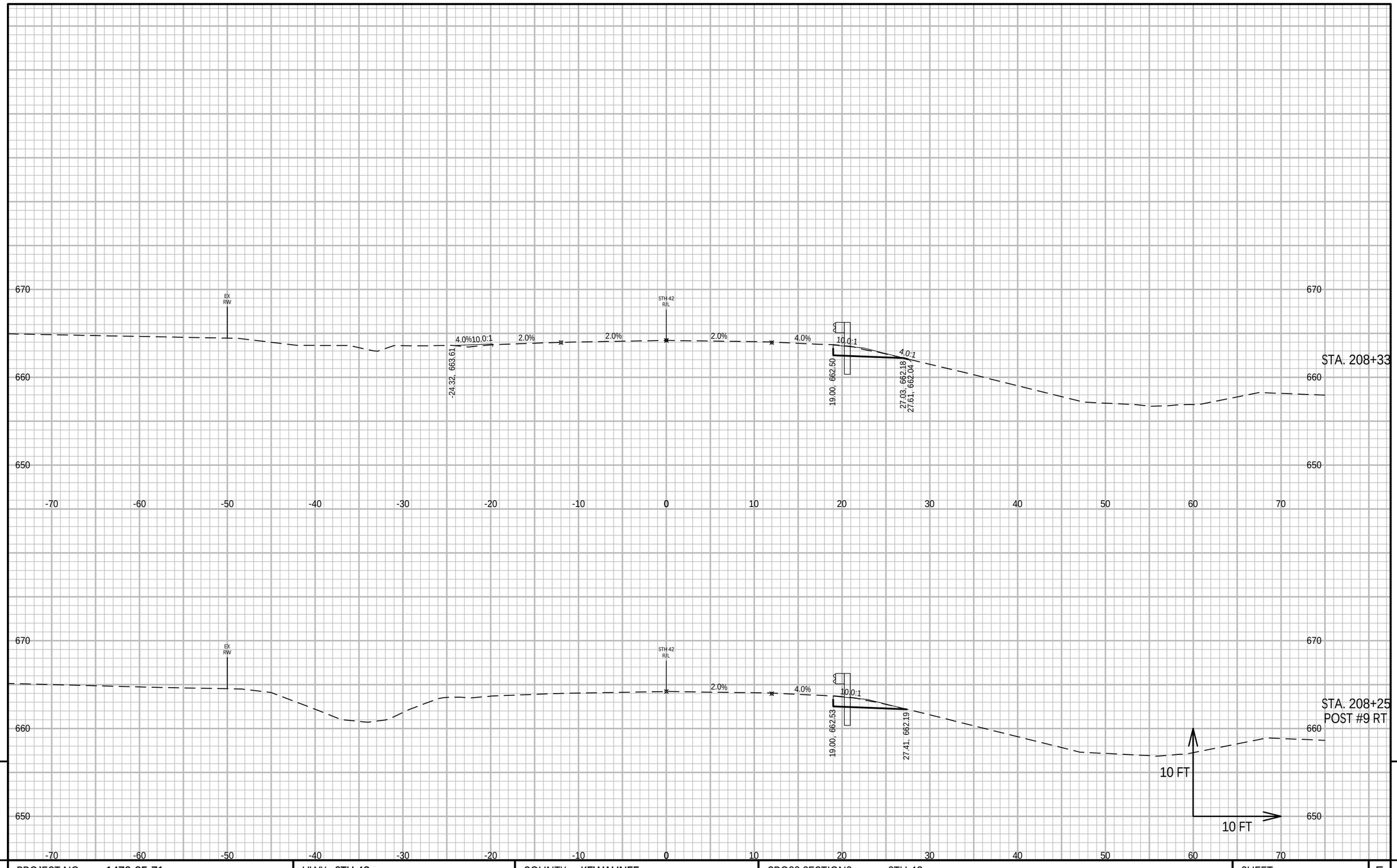
PLOT DATE : 1/7/2020 1:27 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 234	E

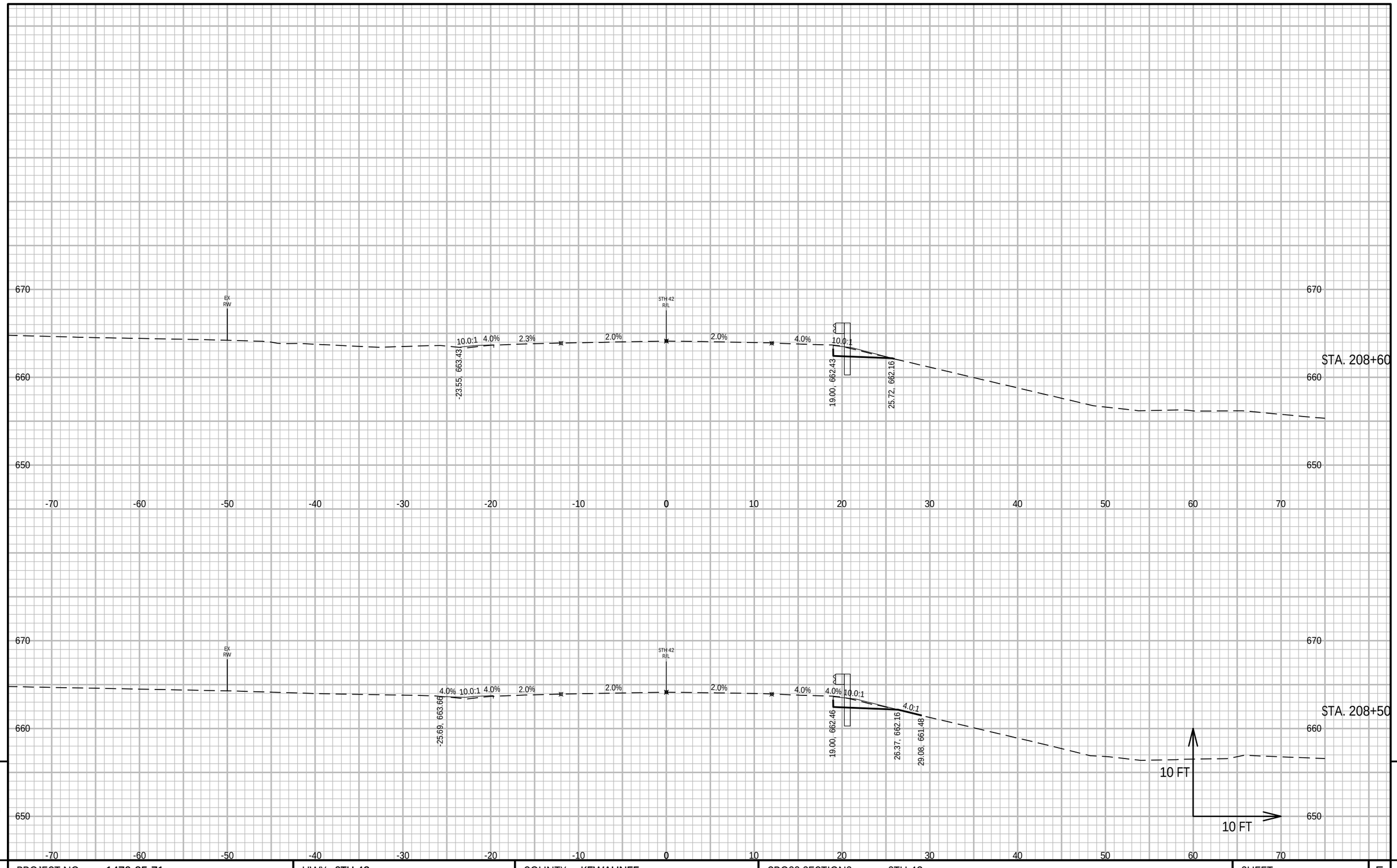
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090205-xs

PLOT DATE : 1/7/2020 1:27 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 235	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090206-xs

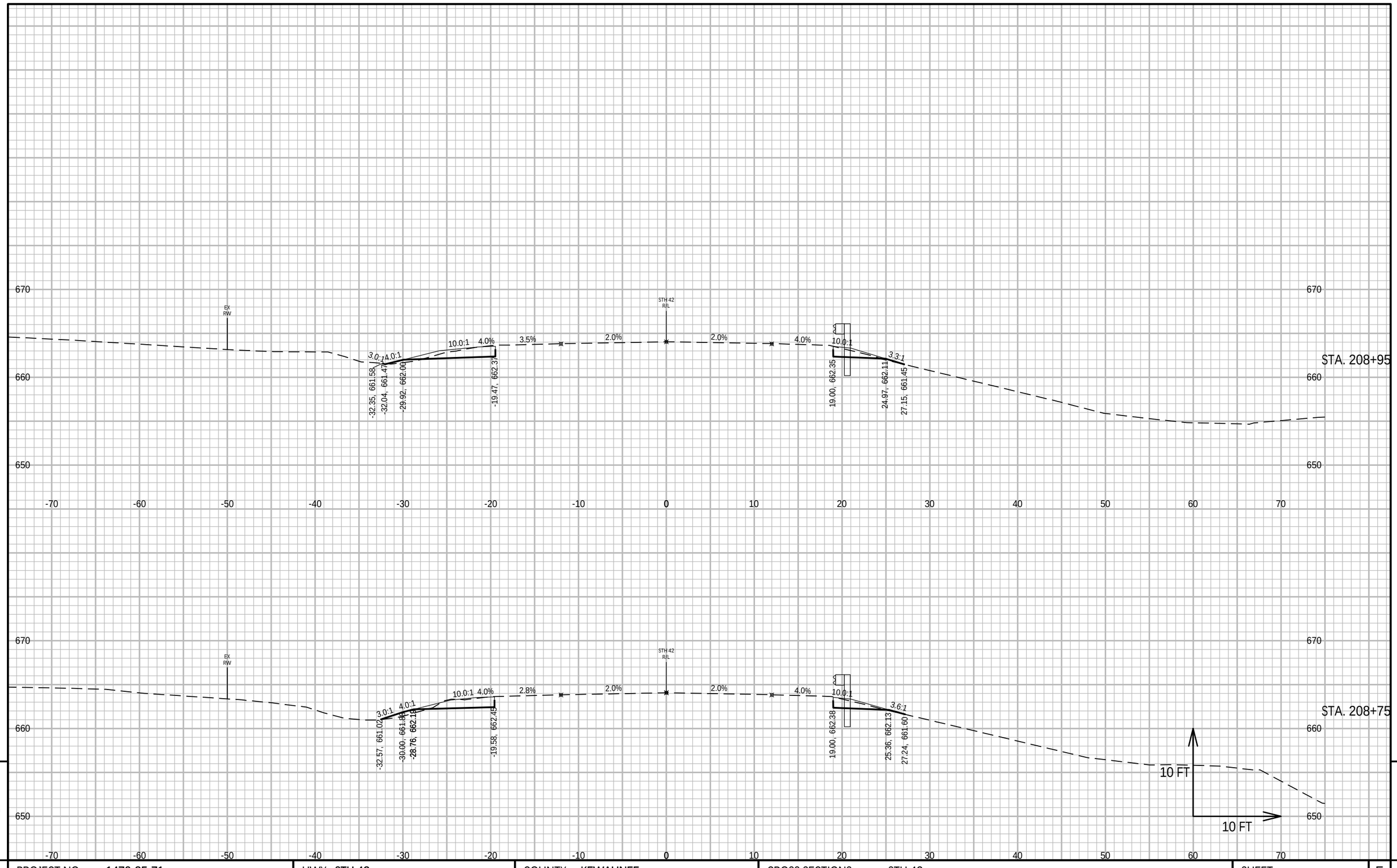
PLOT DATE : 1/7/2020 1:27 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 236 E

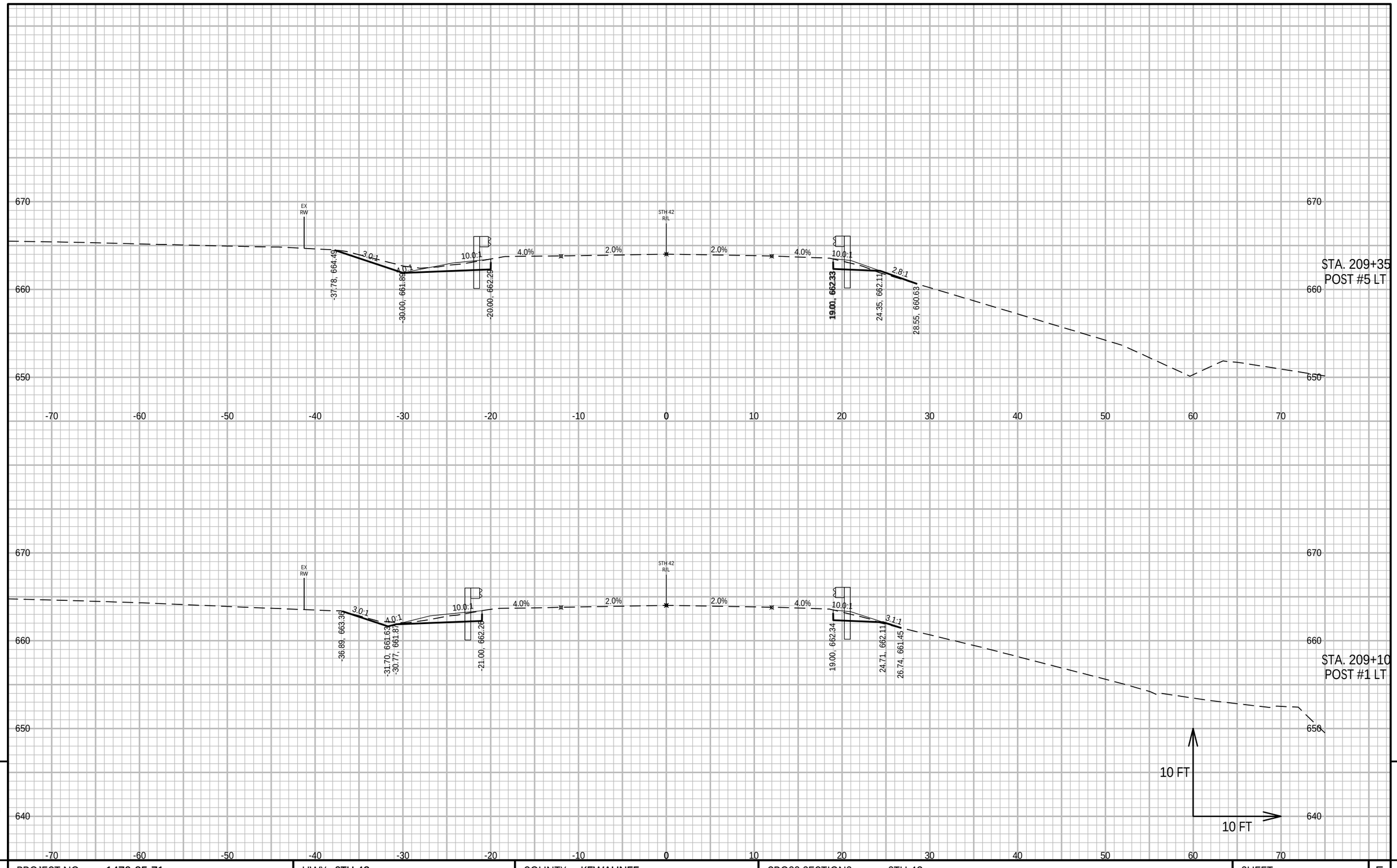
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090207-xs

PLOT DATE : 1/7/2020 1:27 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 237	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090208-xs

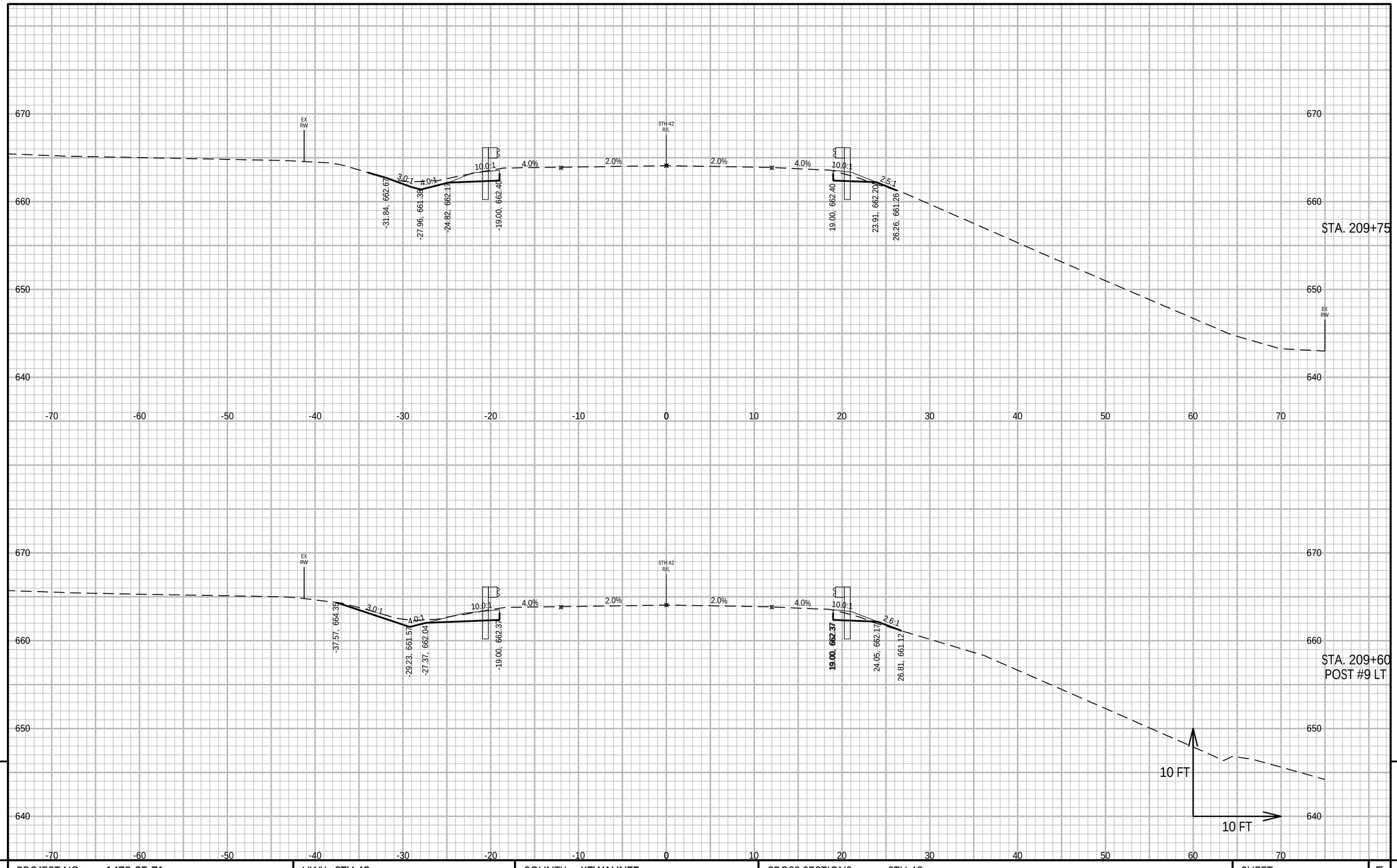
PLOT DATE : 1/7/2020 1:28 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 238	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090209-xs

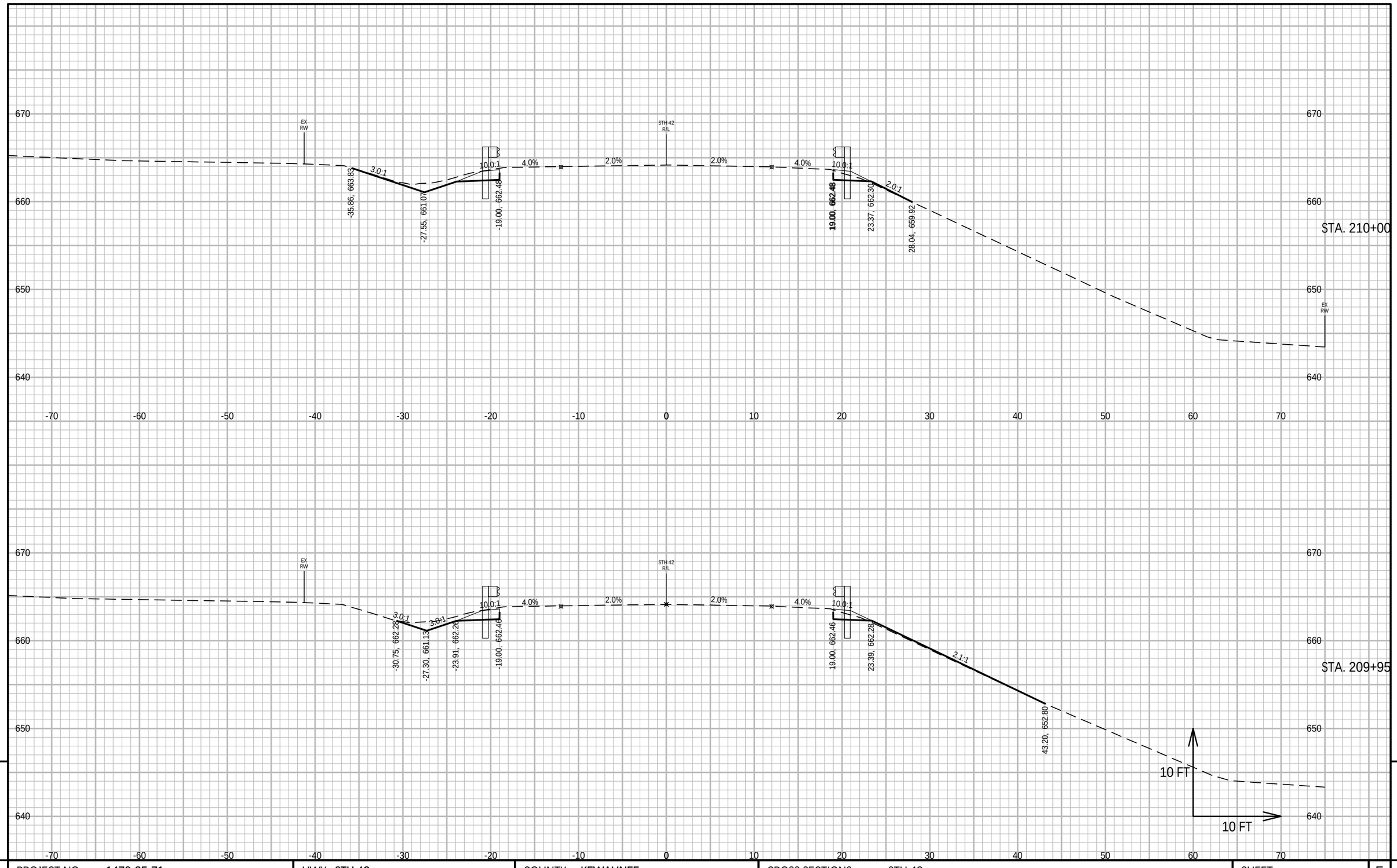
PLOT DATE : 1/7/2020 1:28 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 239 E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090210-xs

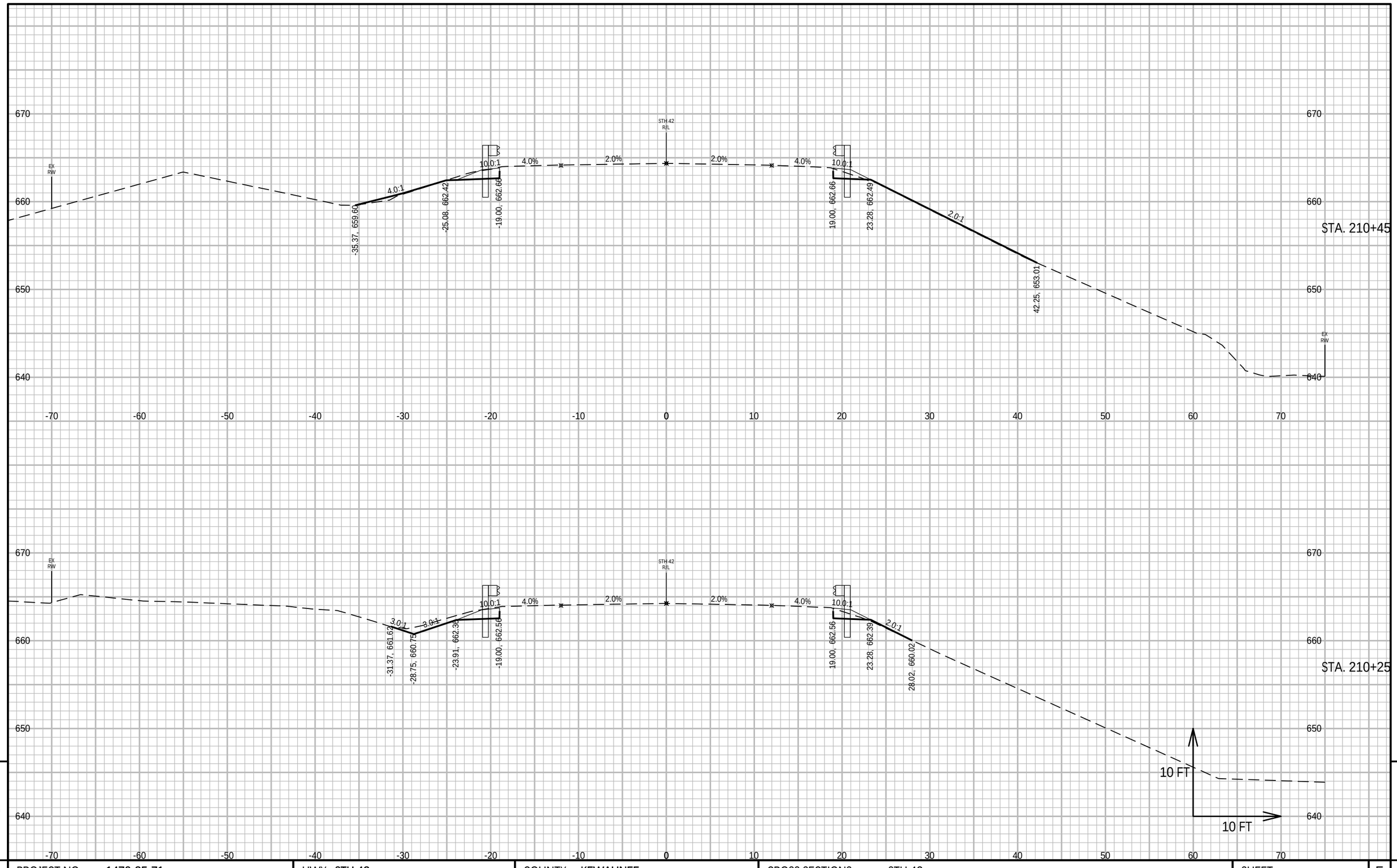
PLOT DATE : 1/7/2020 1:28 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 240	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090211-xs

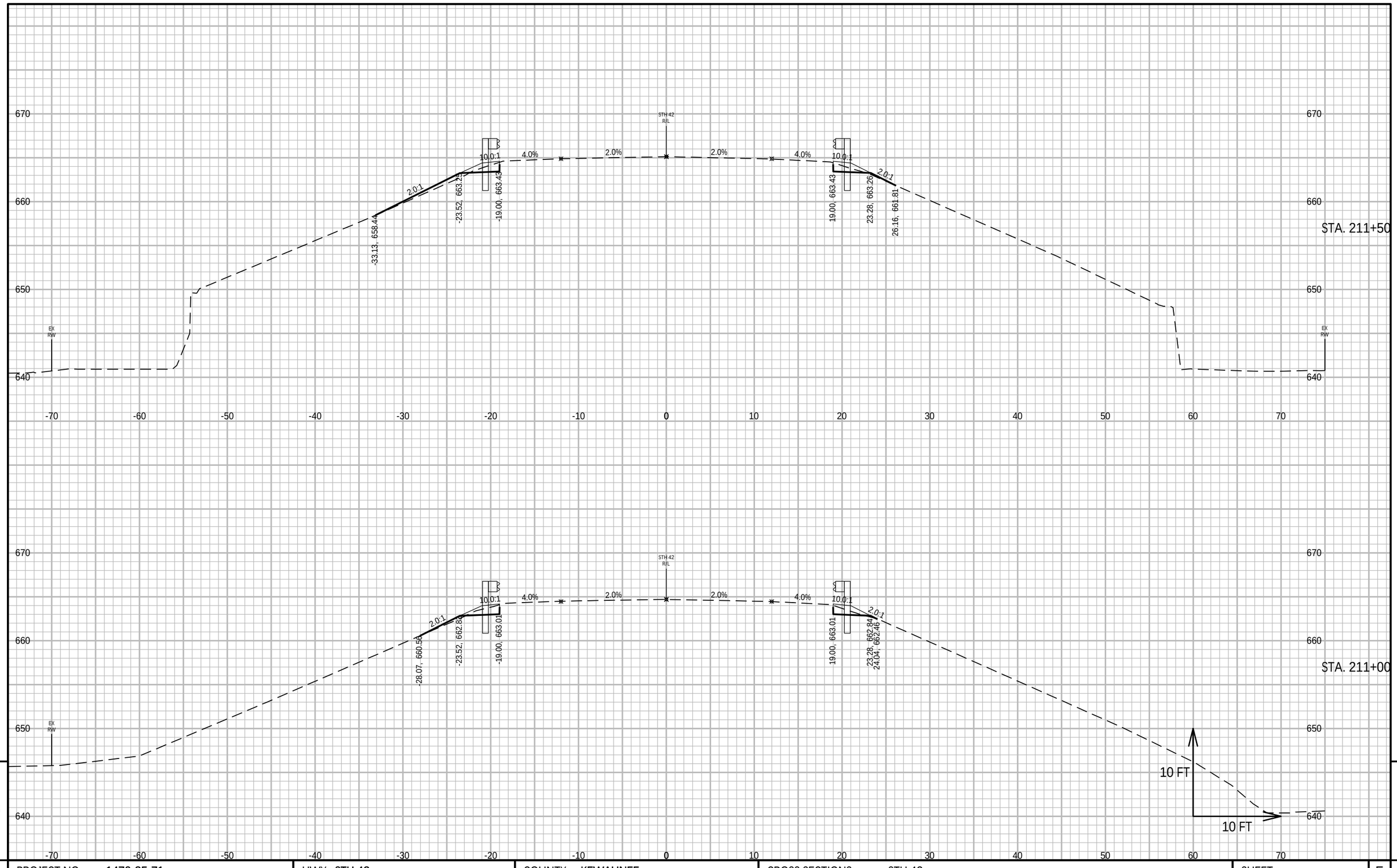
PLOT DATE : 1/7/2020 1:28 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 241	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090212-xs

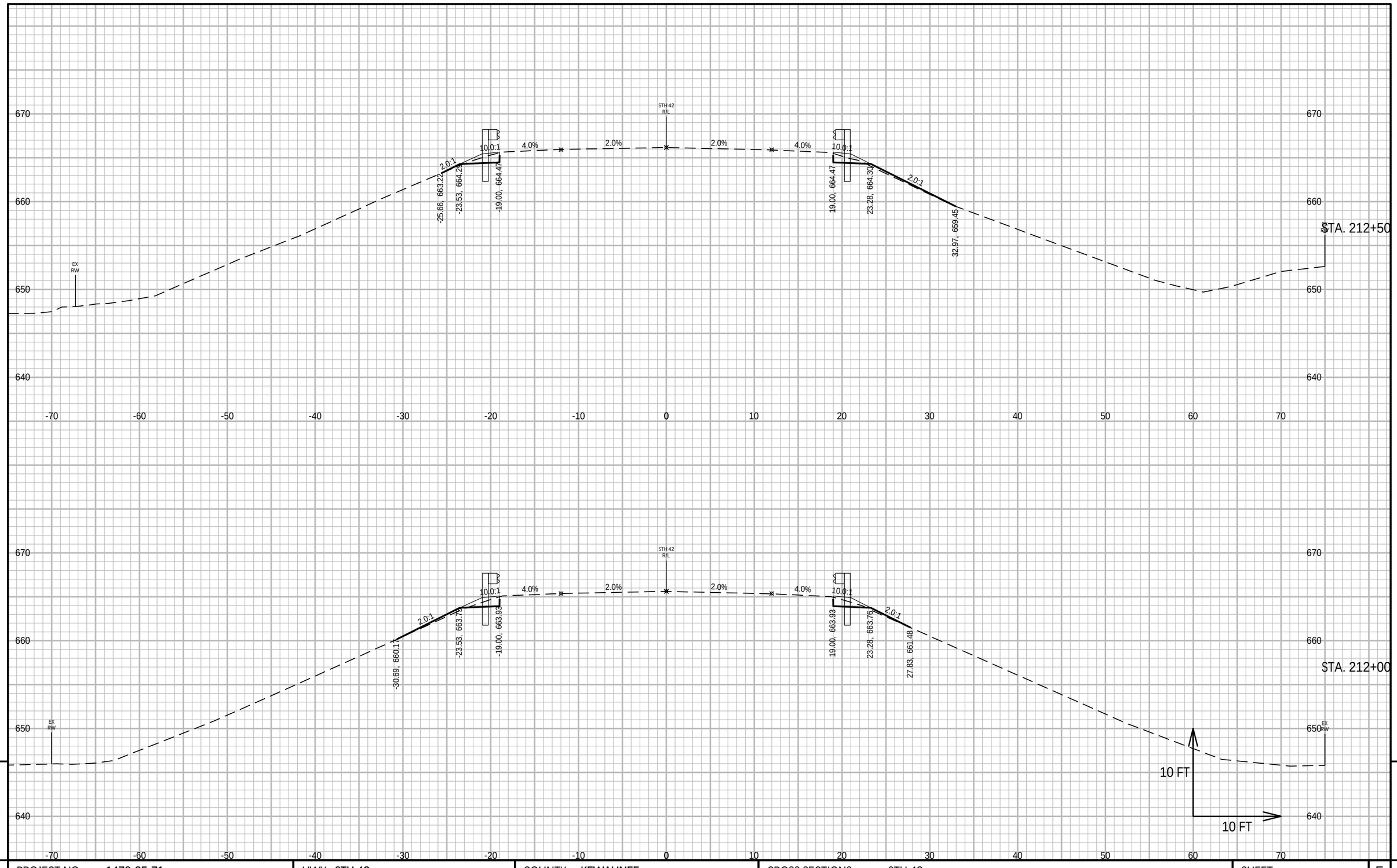
PLOT DATE : 1/7/2020 1:28 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 242	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090213-xs

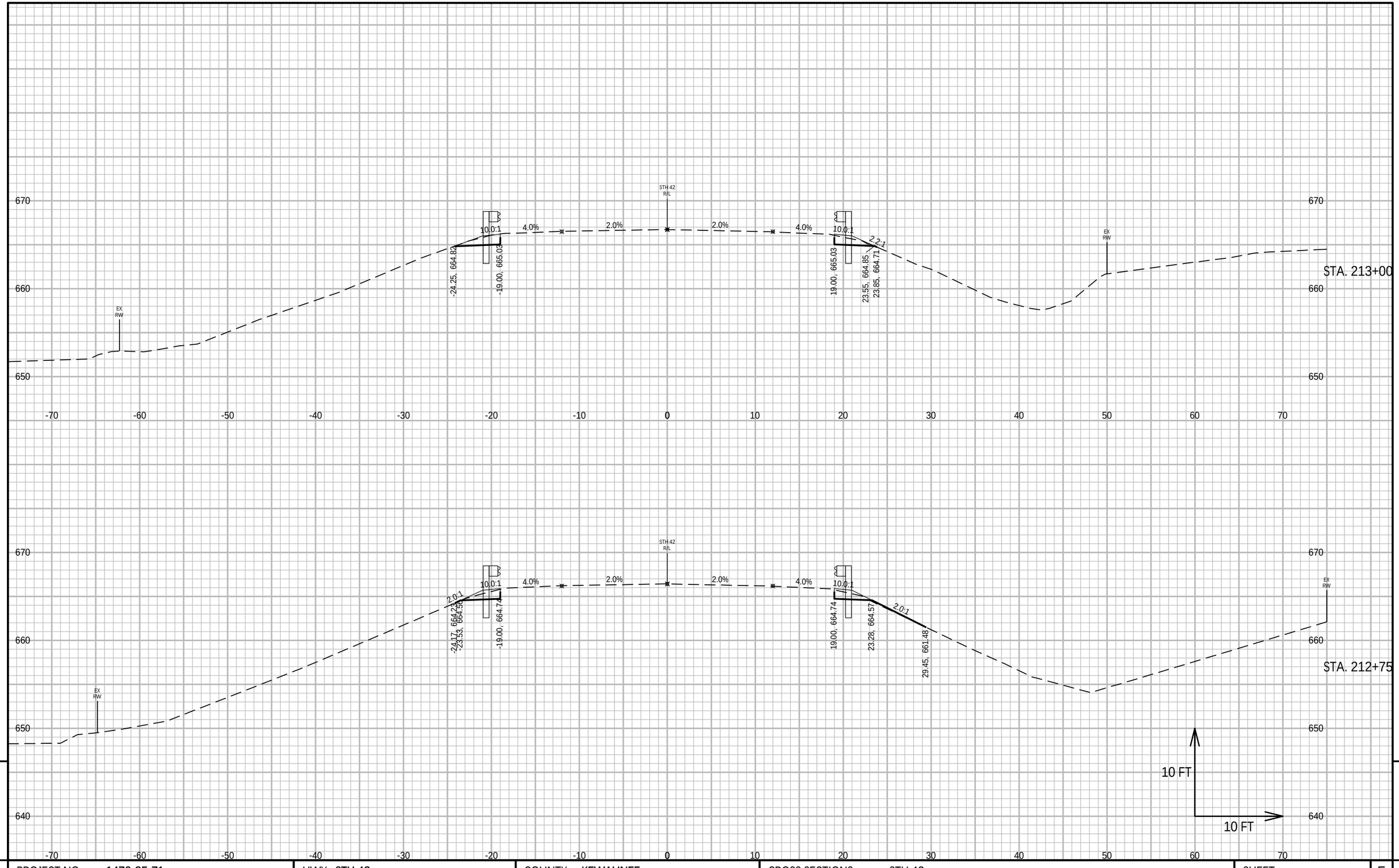
PLOT DATE : 1/7/2020 1:29 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 243 E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090214-xs

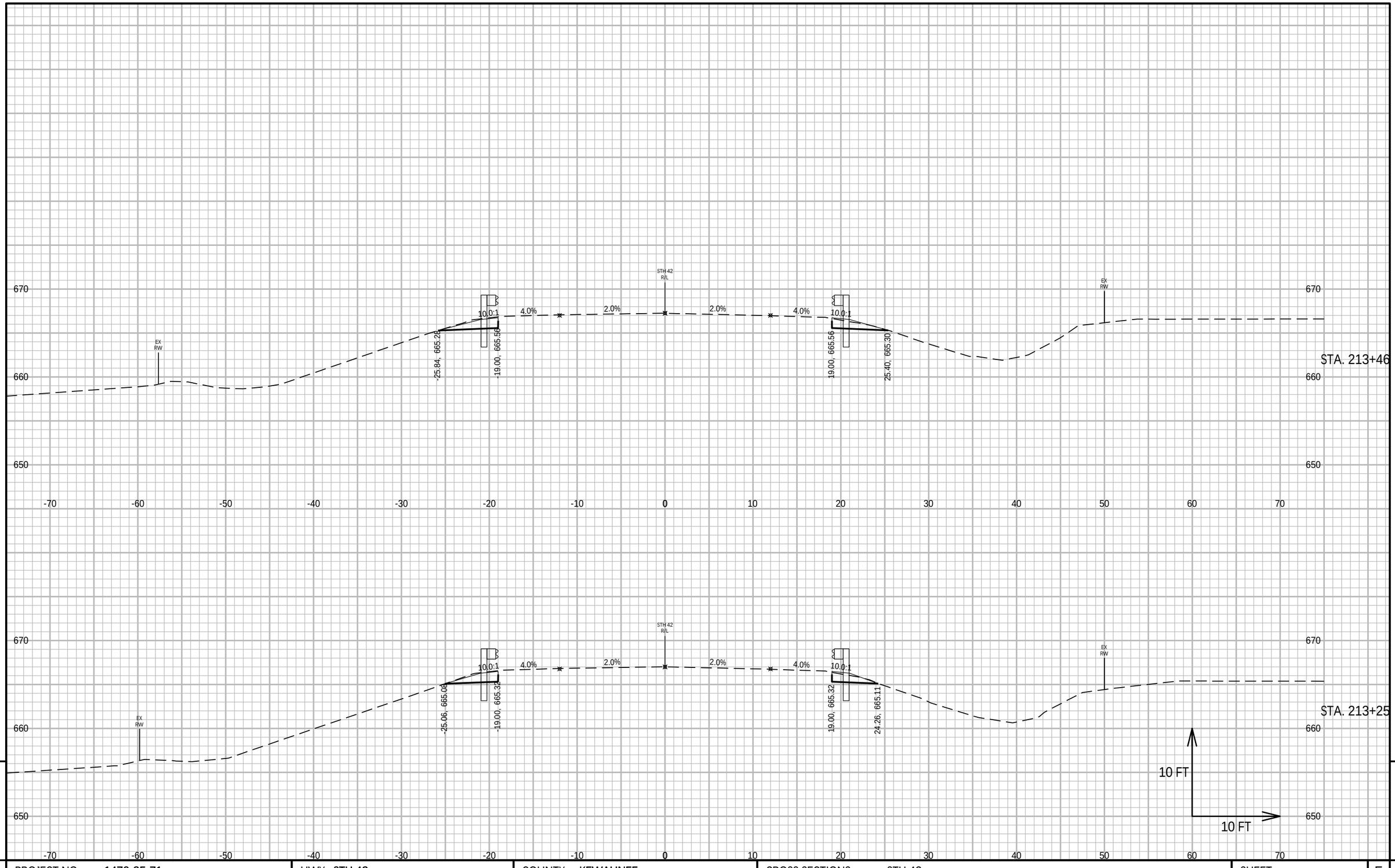
PLOT DATE : 1/7/2020 1:29 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 244	E

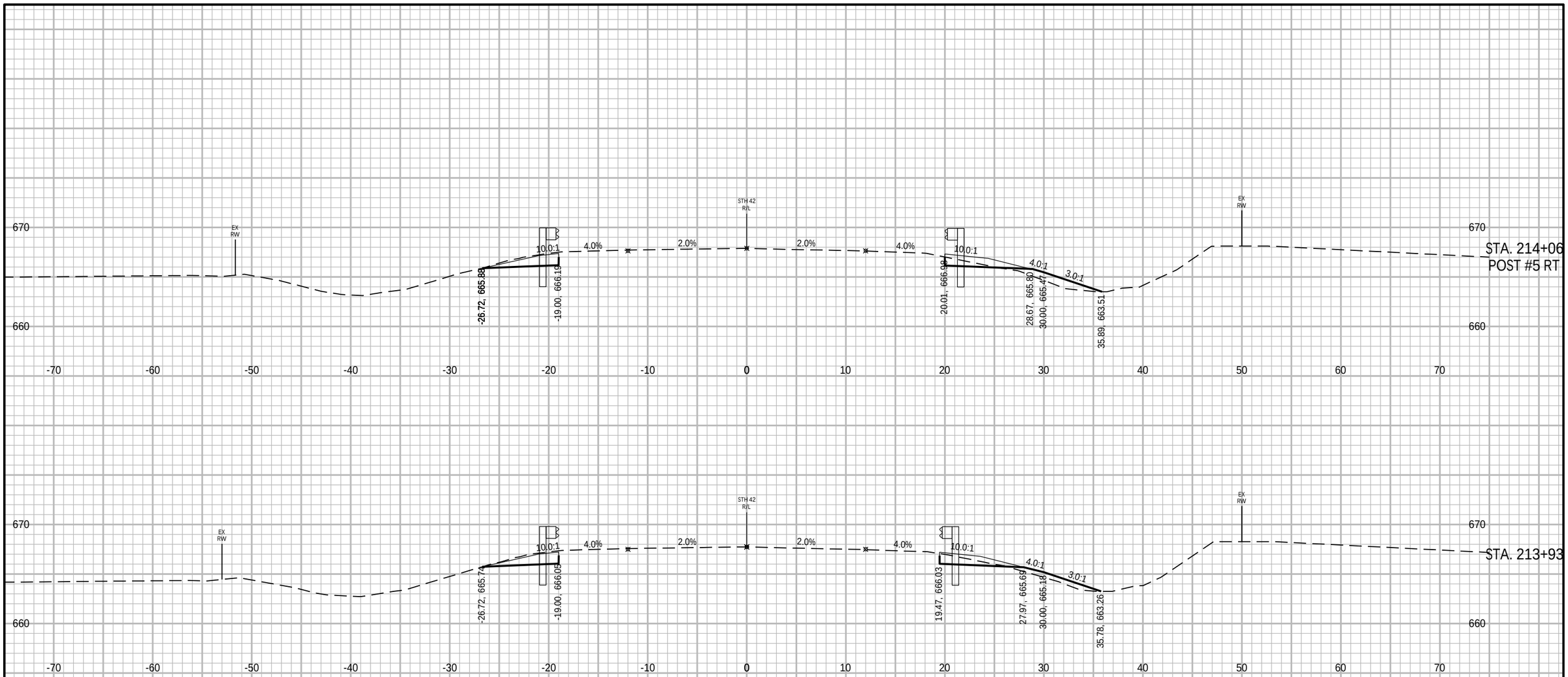
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090215-xs

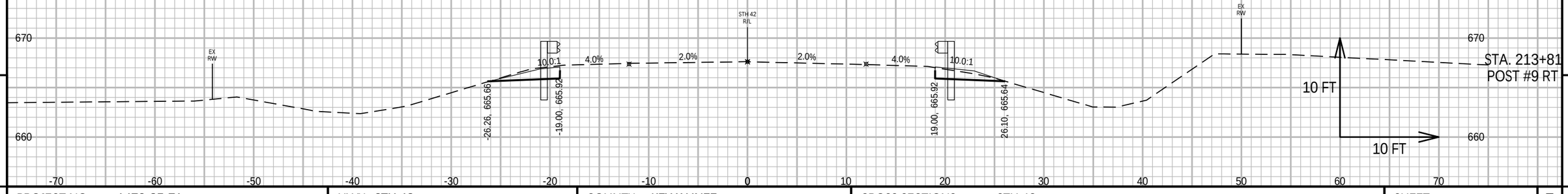
PLOT DATE : 1/7/2020 1:29 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.





9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 245	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090216-xs

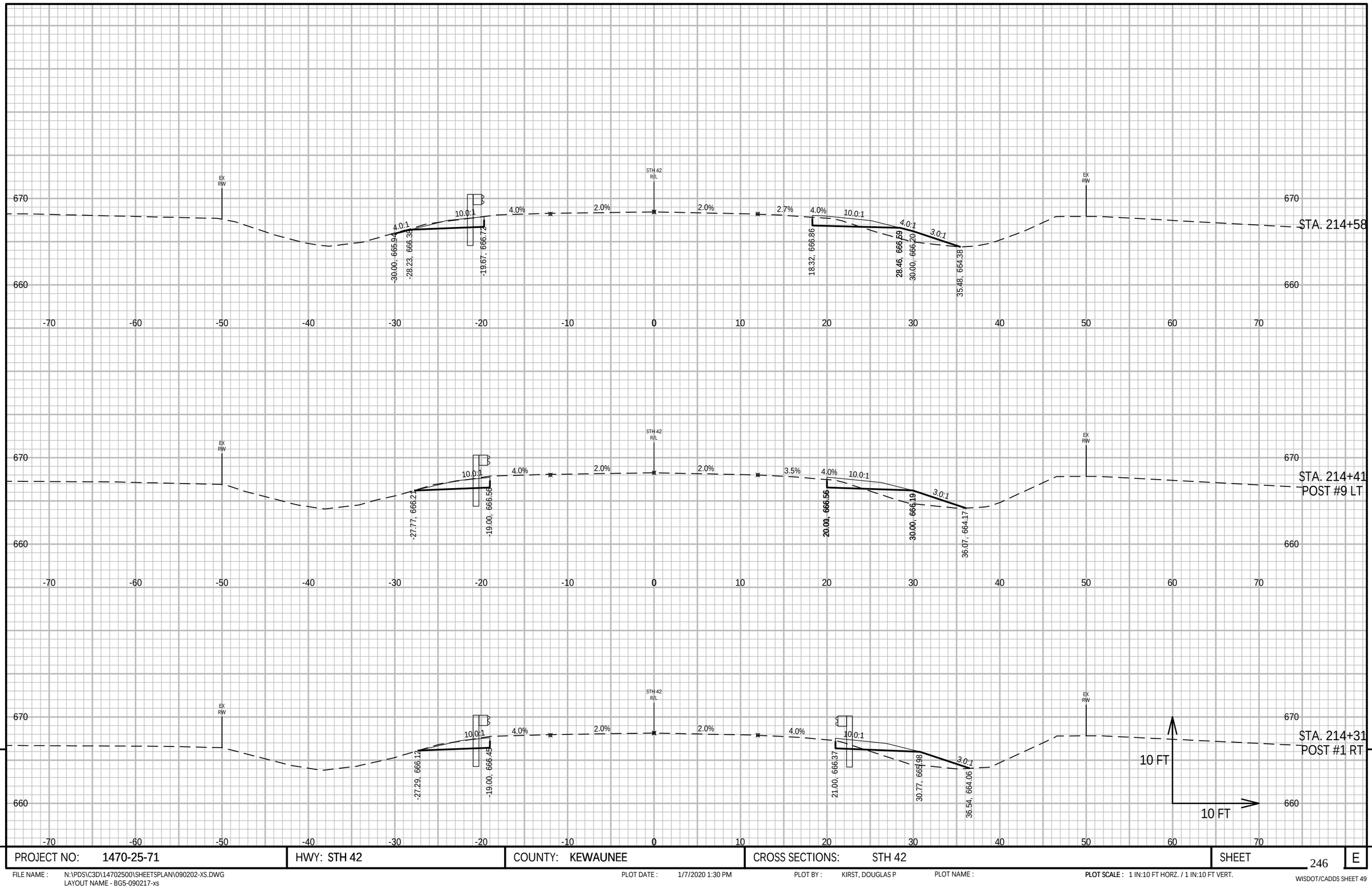
PLOT DATE : 1/7/2020 1:29 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 246	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090217-xs

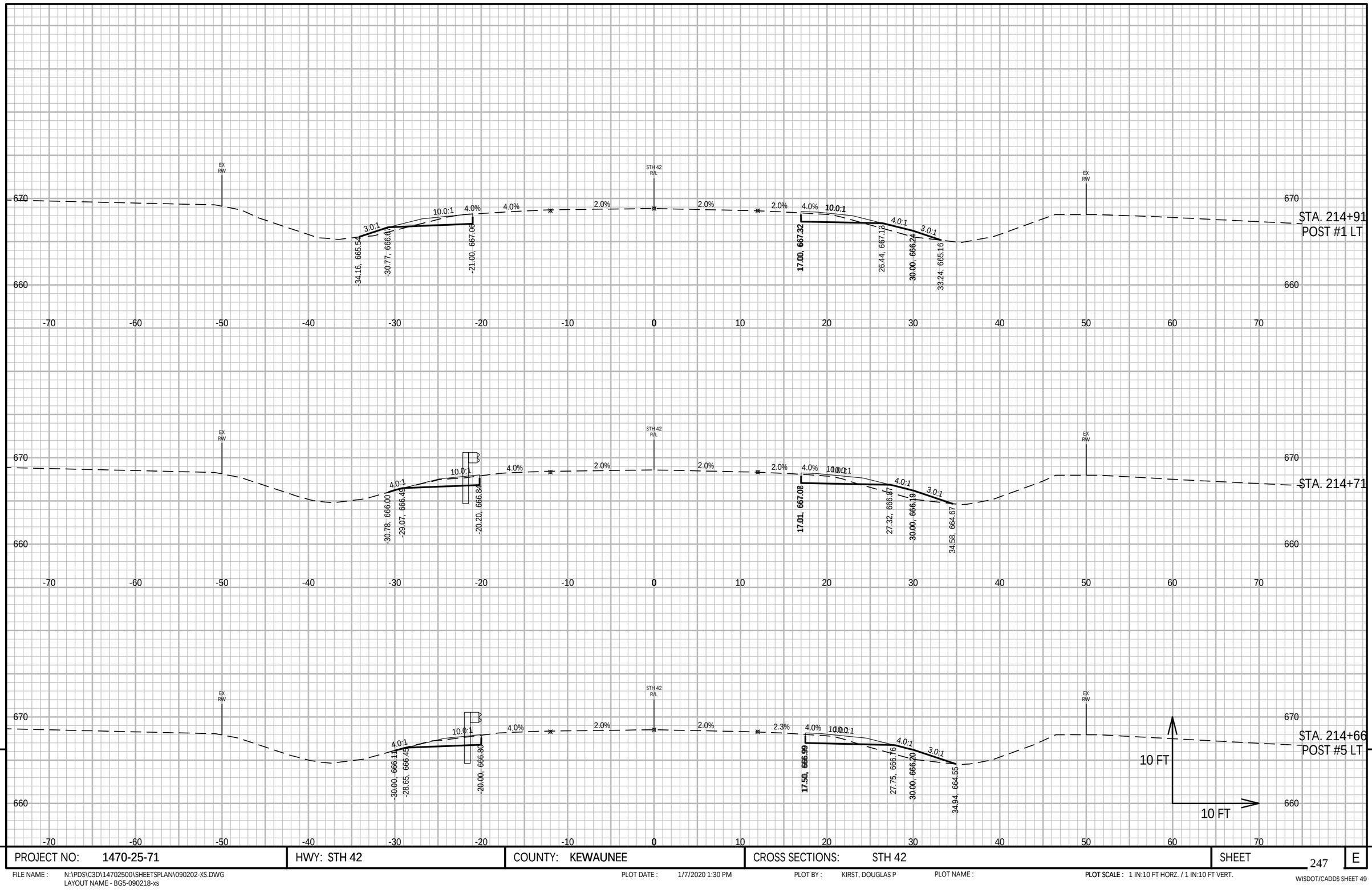
PLOT DATE : 1/7/2020 1:30 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 247	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090218-xs

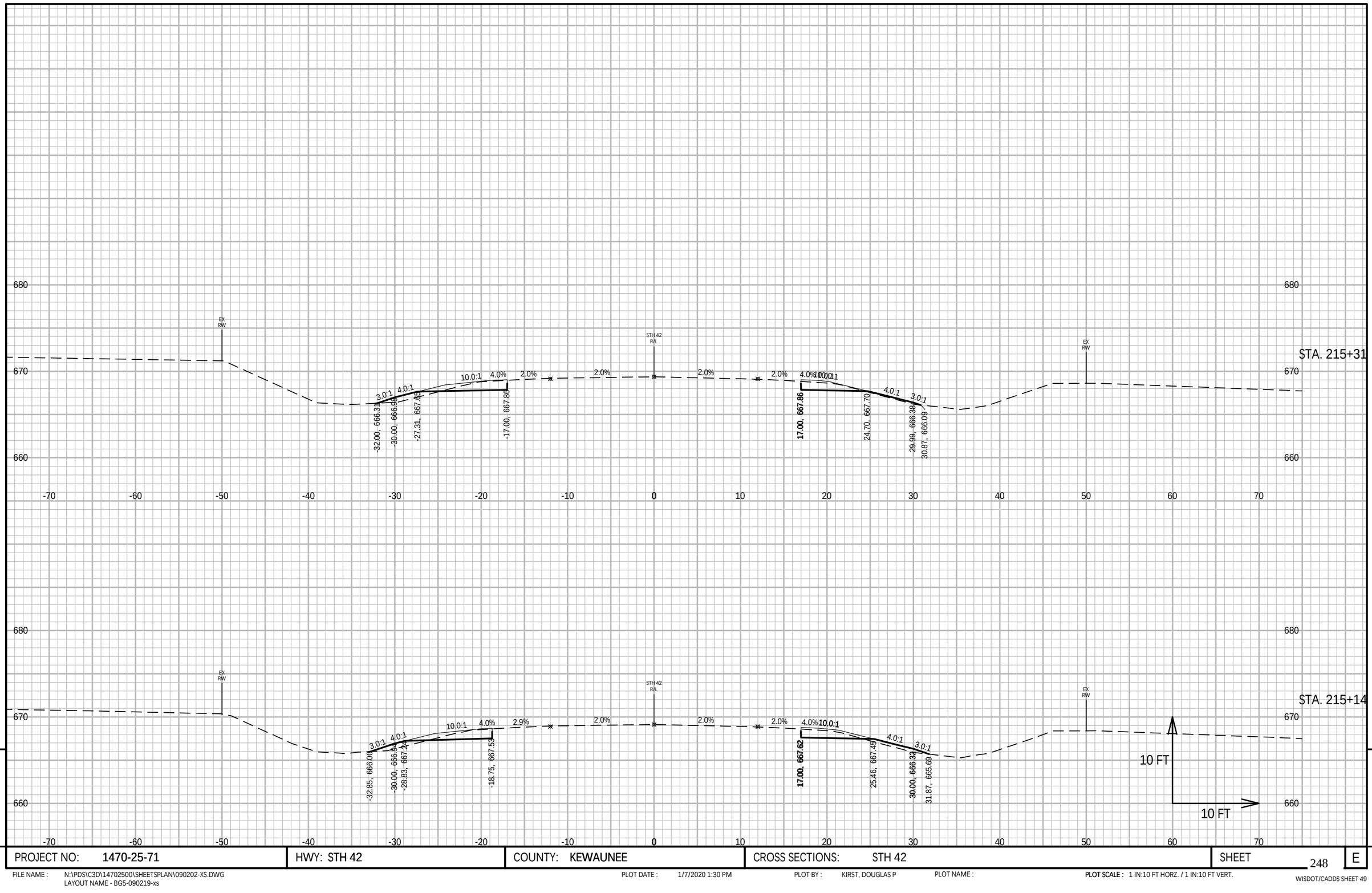
PLOT DATE : 1/7/2020 1:30 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9 9

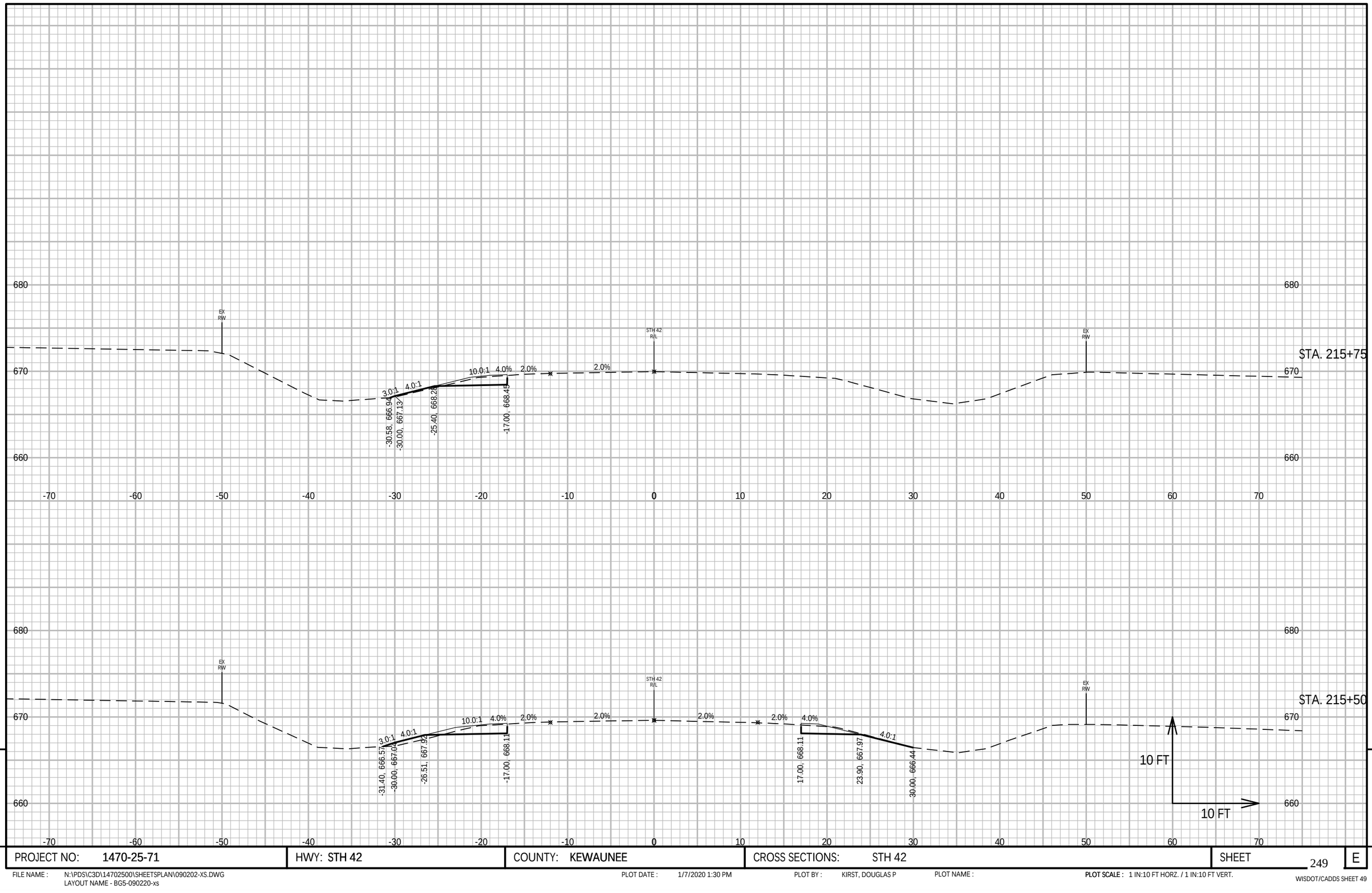
PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 248	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090219-xs

PLOT DATE : 1/7/2020 1:30 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 249	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090220-xs

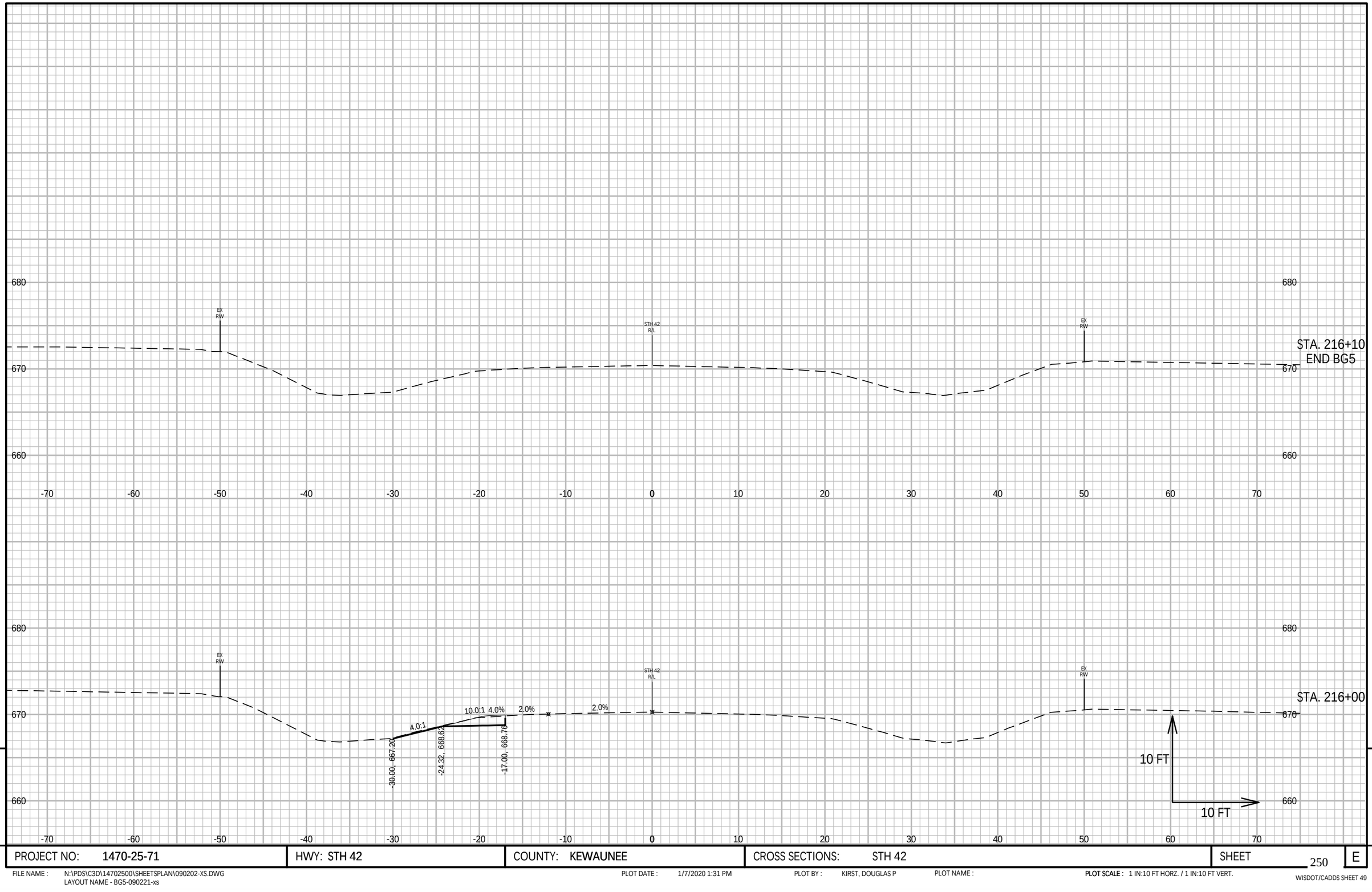
PLOT DATE : 1/7/2020 1:30 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 250	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG5-090221-xs

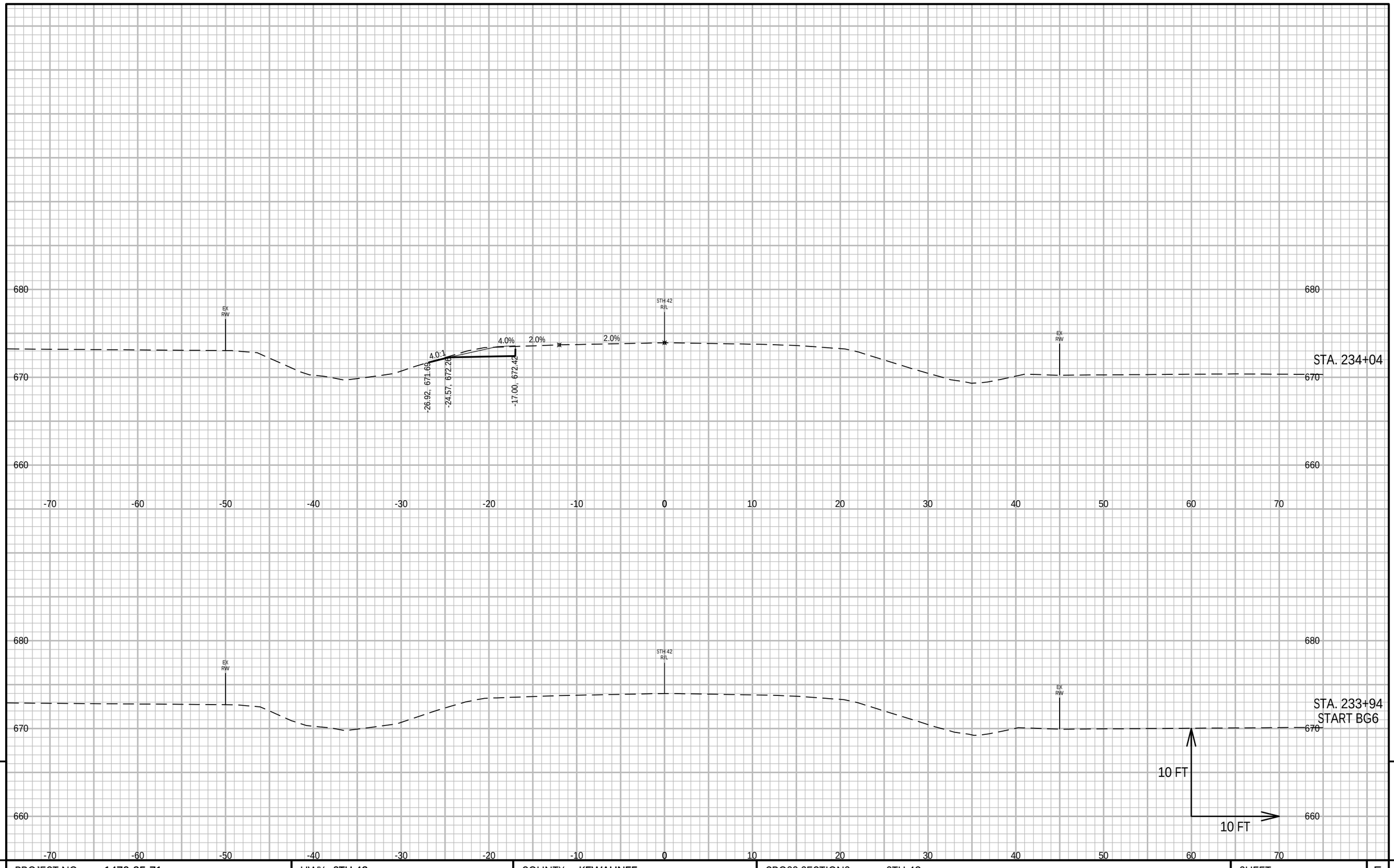
PLOT DATE : 1/7/2020 1:31 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 251	E

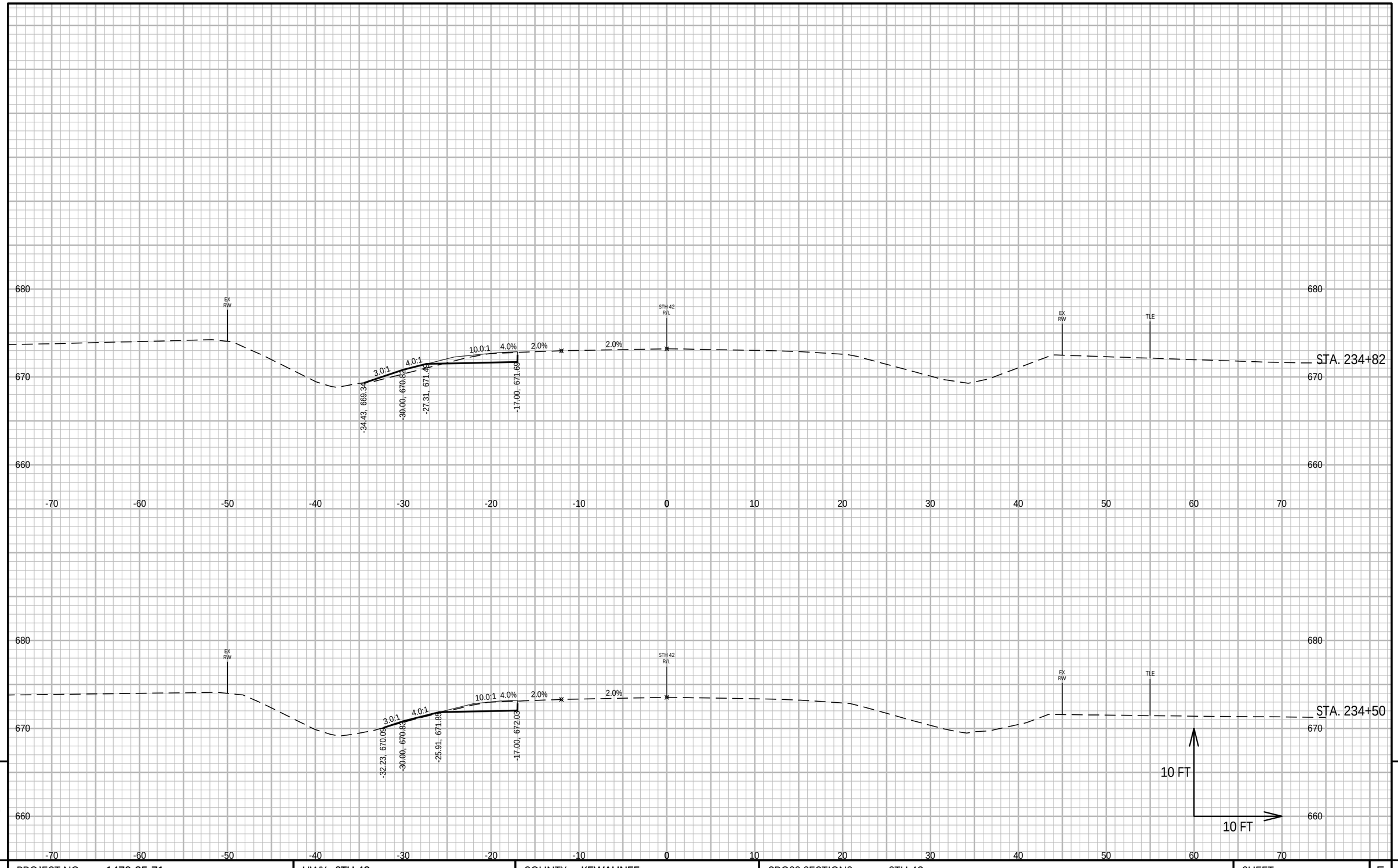
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090201-xs

PLOT DATE : 1/7/2020 1:31 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 252	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090202-xs

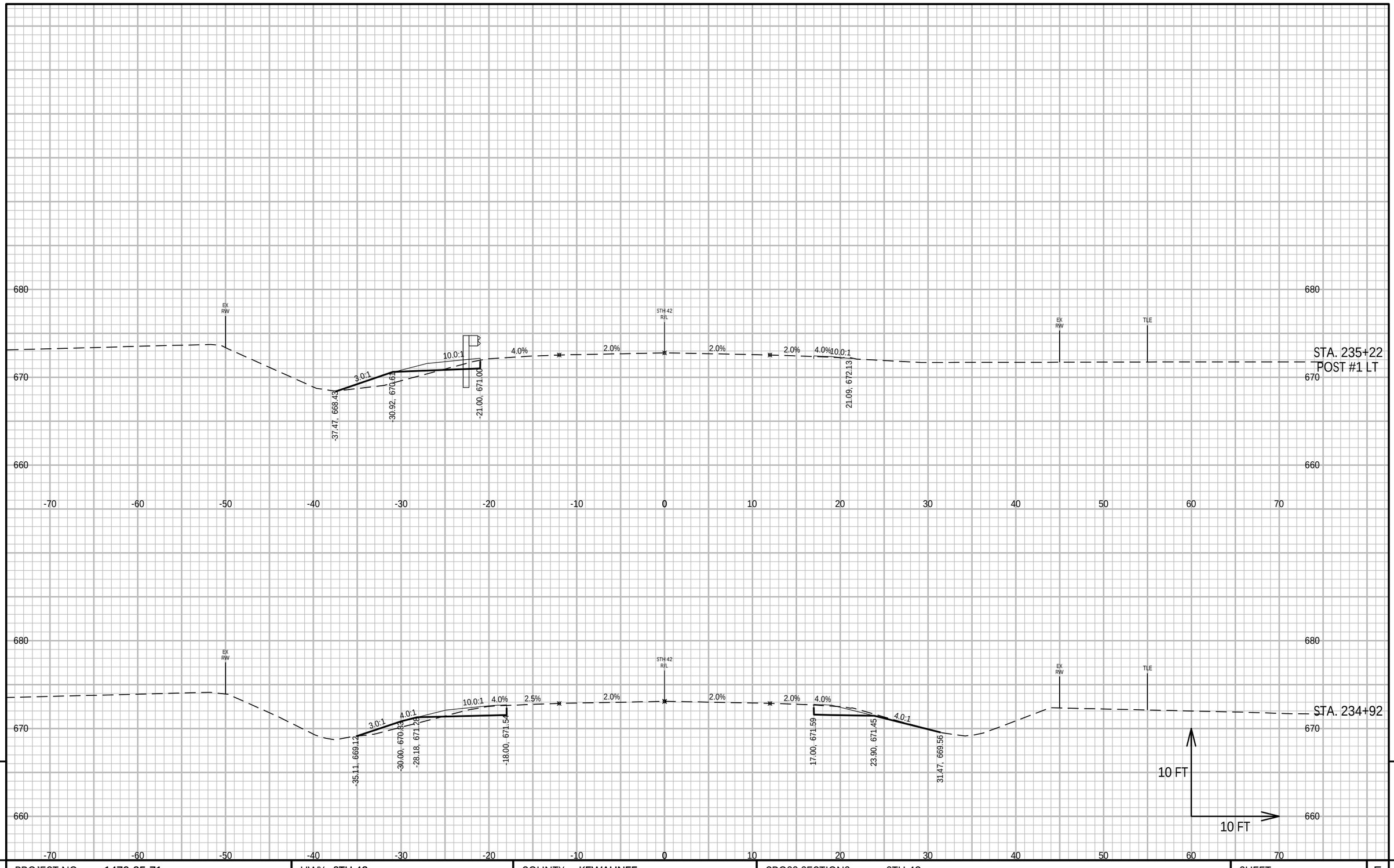
PLOT DATE : 1/7/2020 1:31 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 253	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090203-xs

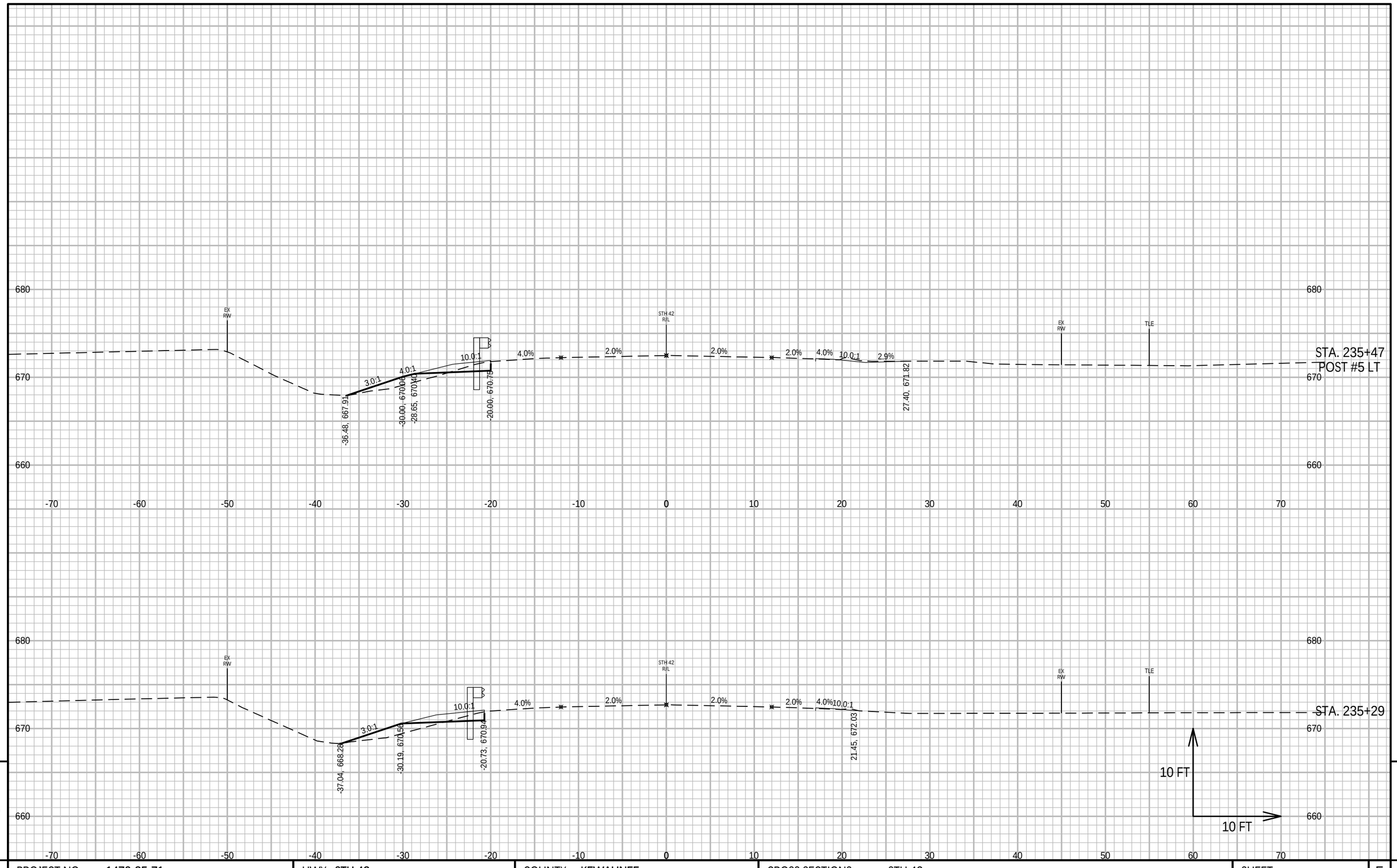
PLOT DATE : 1/7/2020 1:32 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 254	E

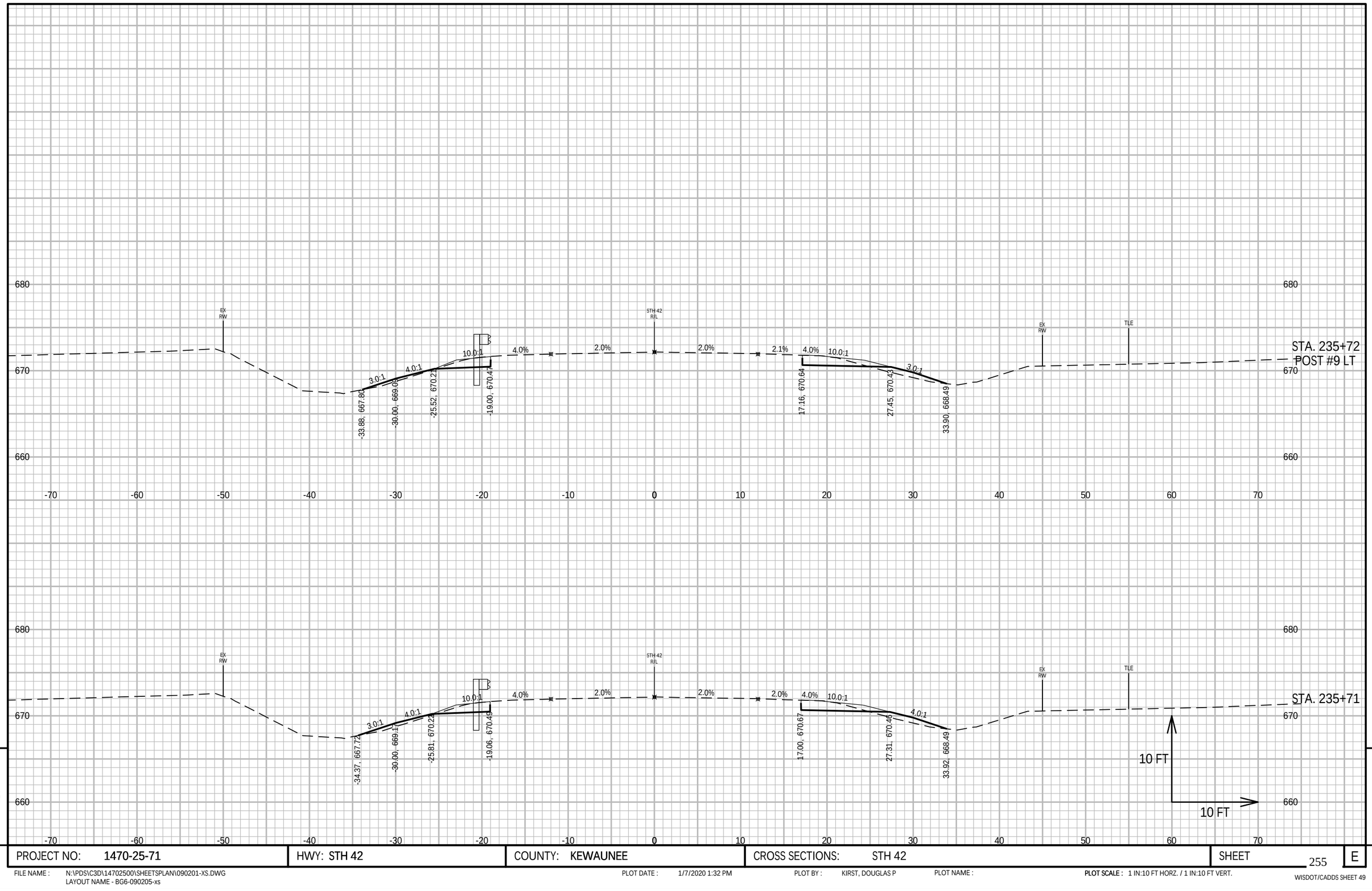
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090204-xs

PLOT DATE : 1/7/2020 1:32 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 255	E

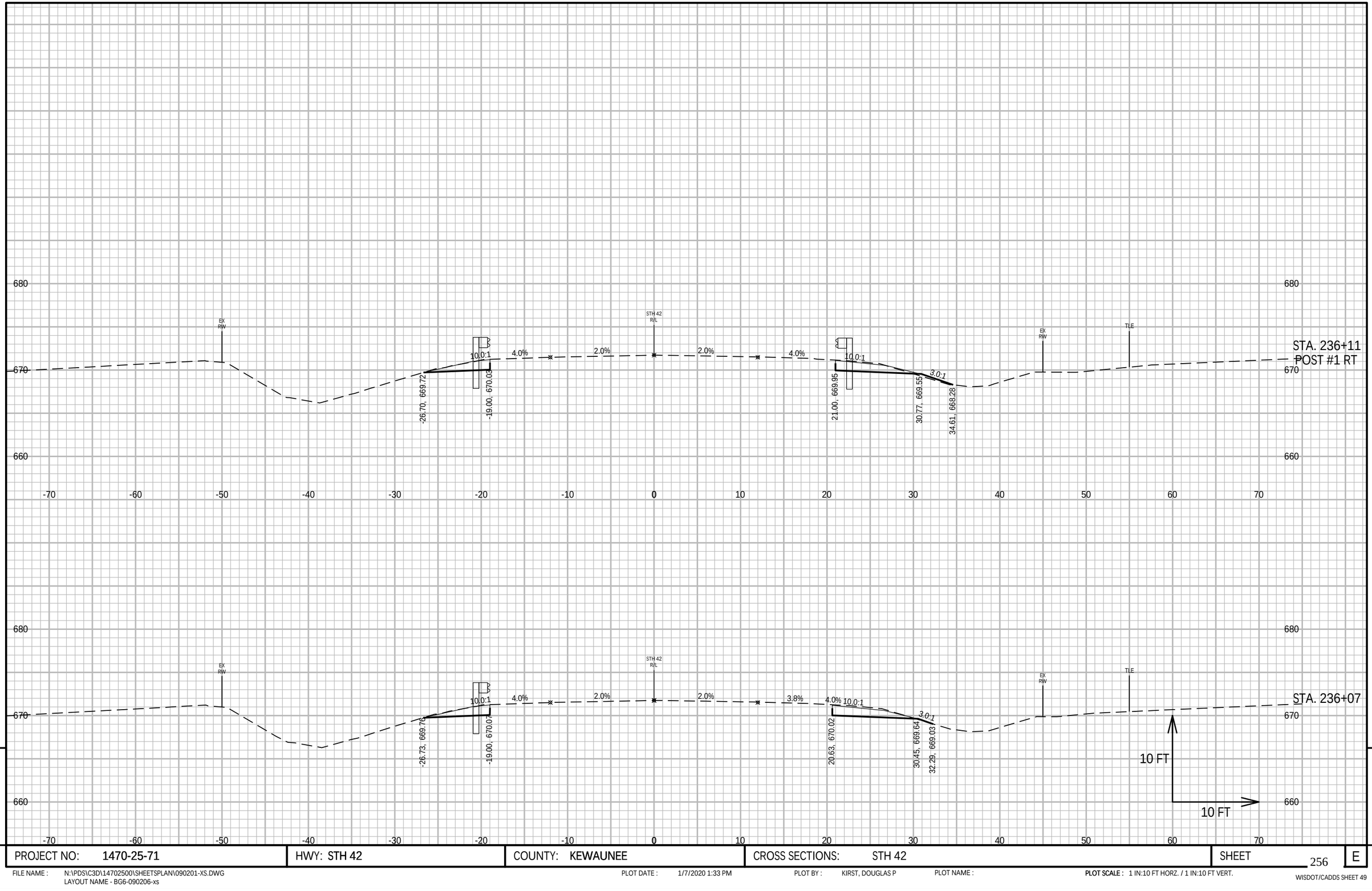
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090205-xs

PLOT DATE : 1/7/2020 1:32 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 256	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090206-xs

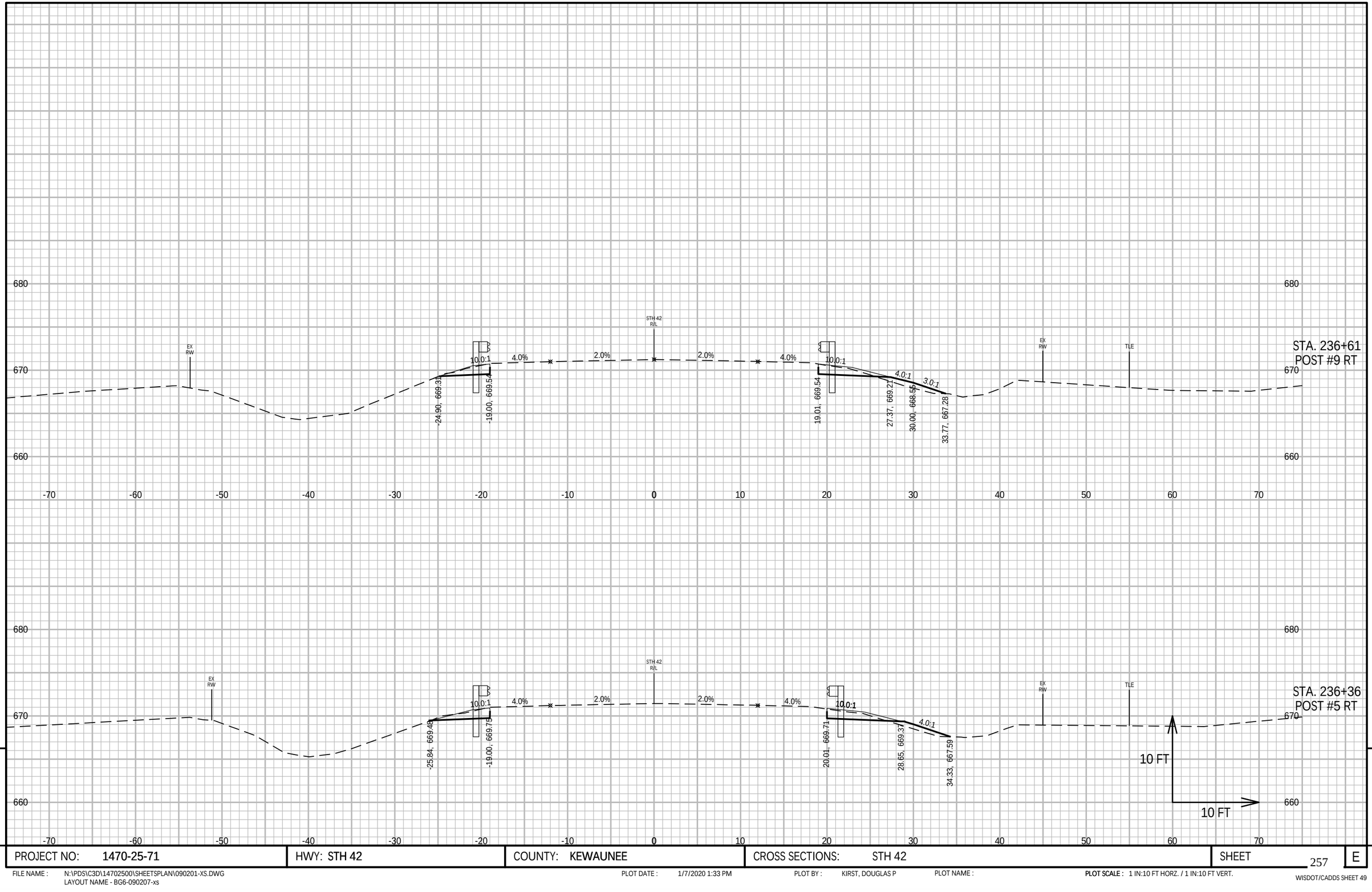
PLOT DATE : 1/7/2020 1:33 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 257	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090207-xs

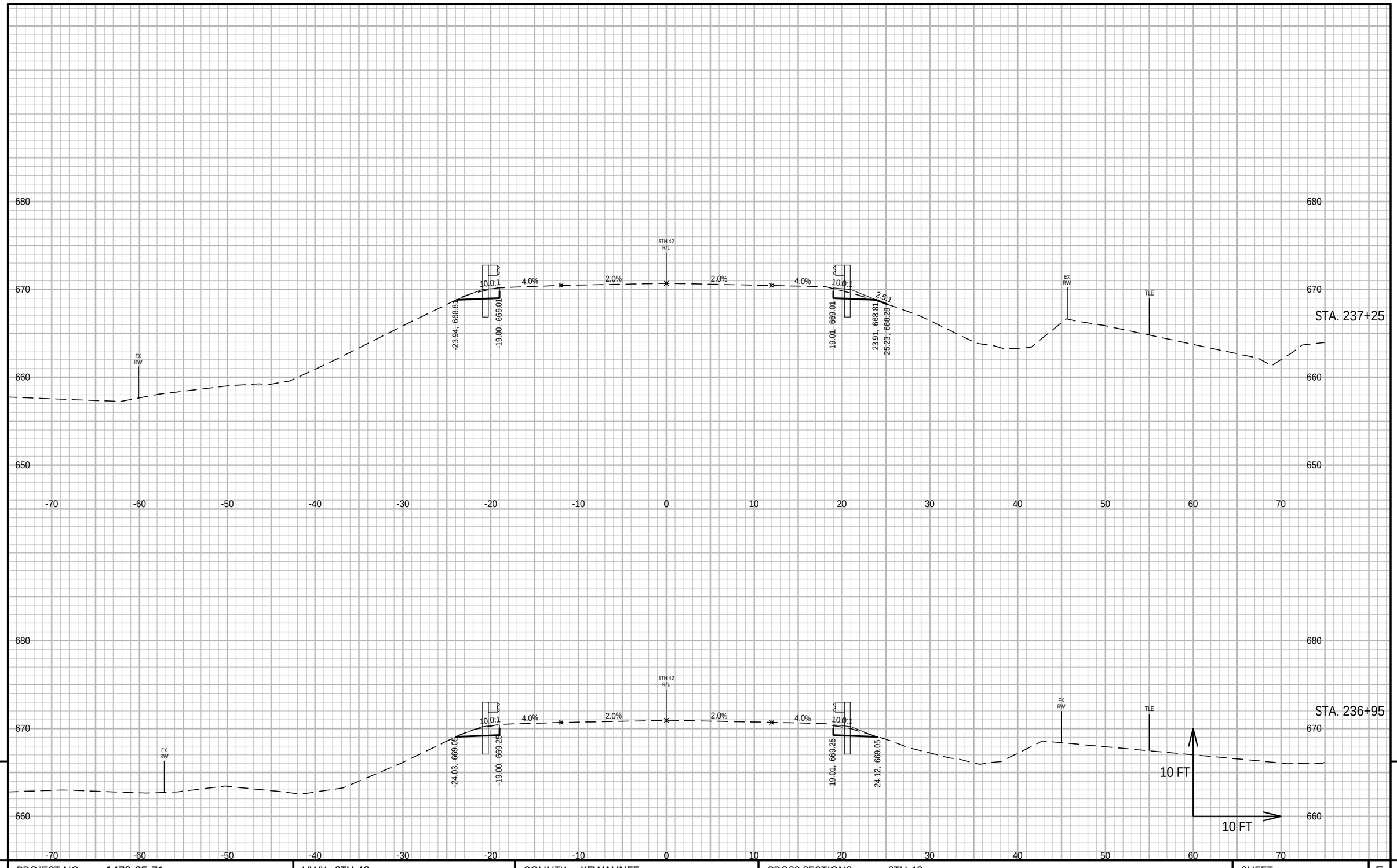
PLOT DATE : 1/7/2020 1:33 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 258	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090208-xs

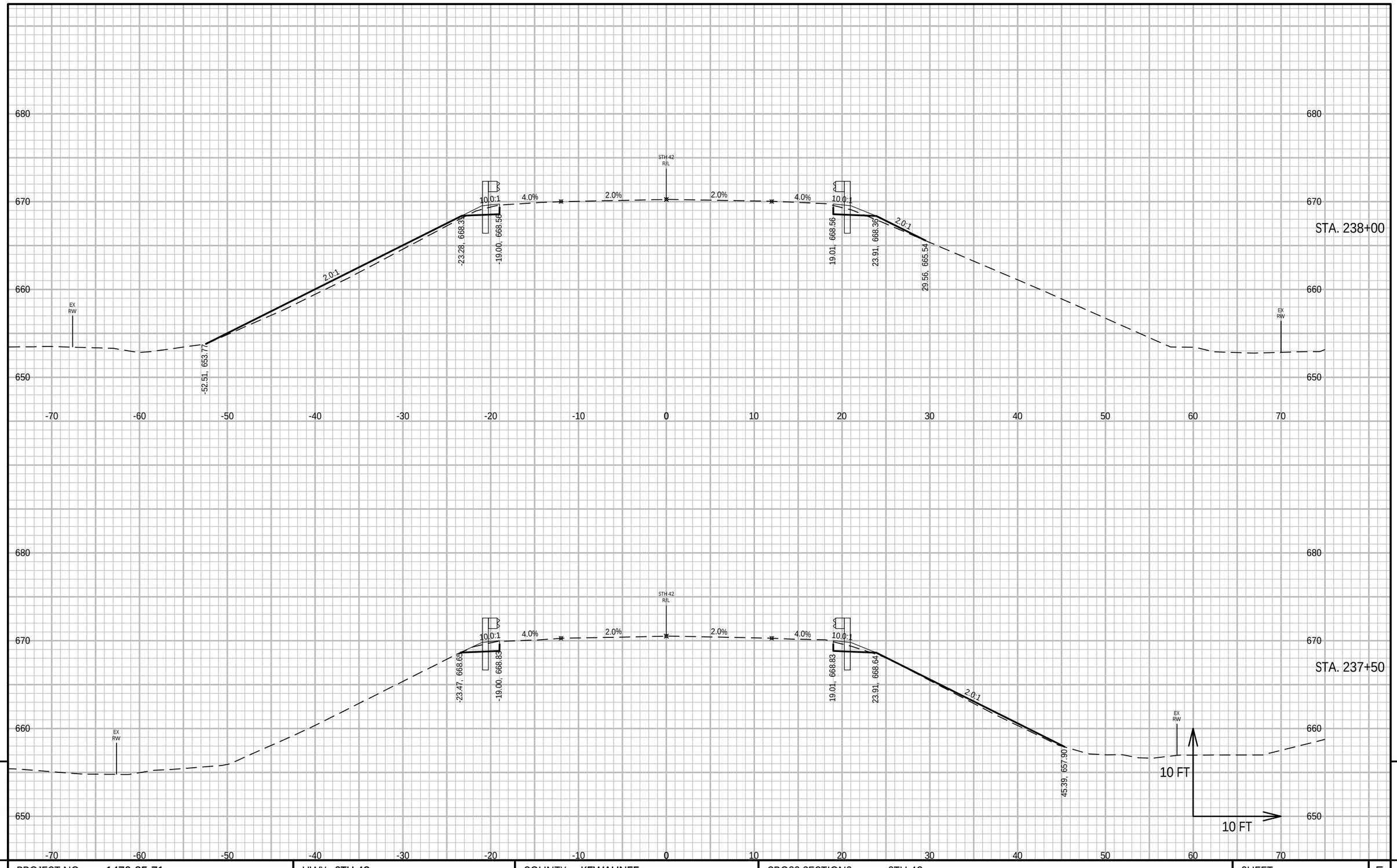
PLOT DATE : 1/7/2020 1:34 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 259	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090209-xs

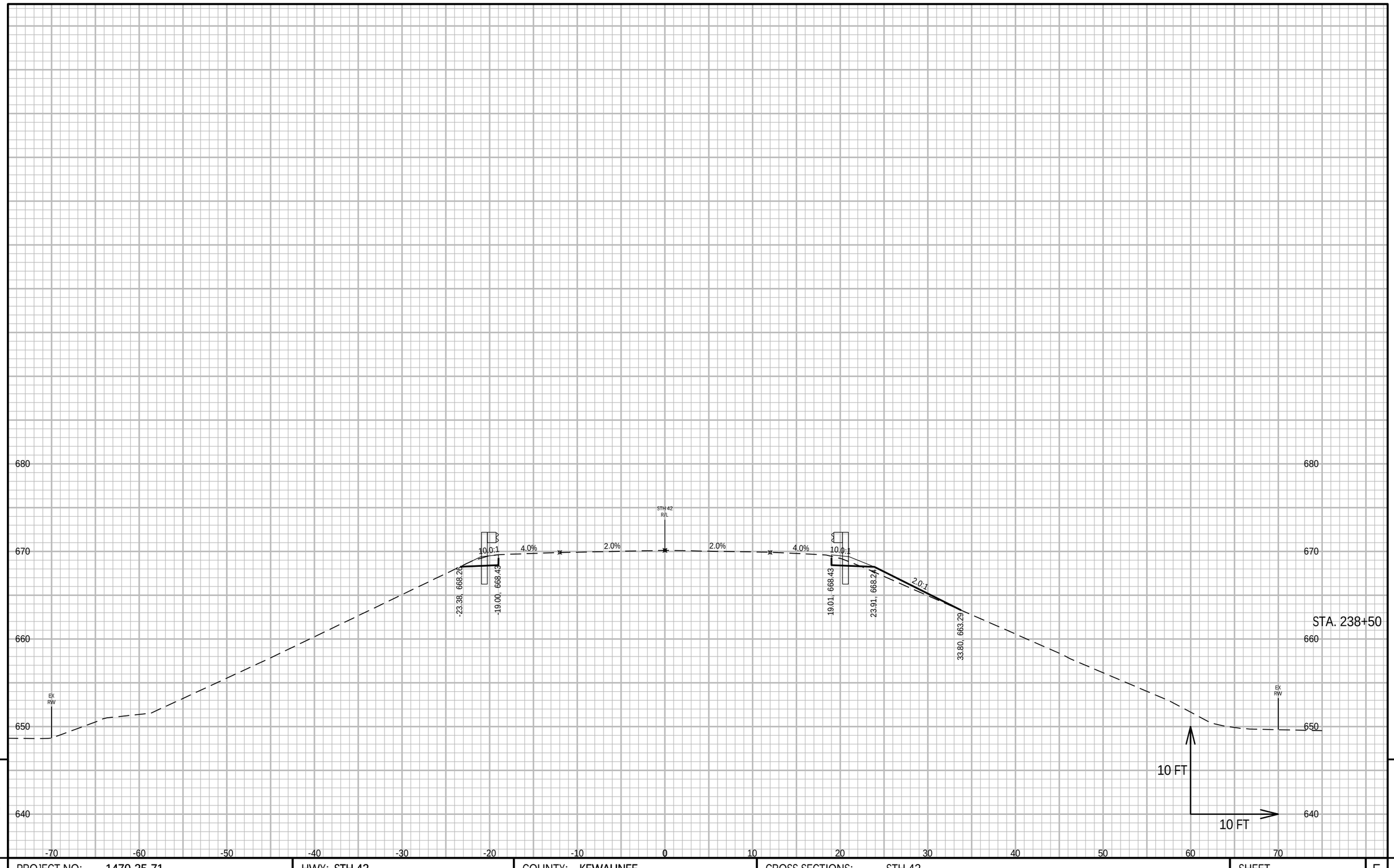
PLOT DATE : 1/7/2020 1:34 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 260	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090210-xs

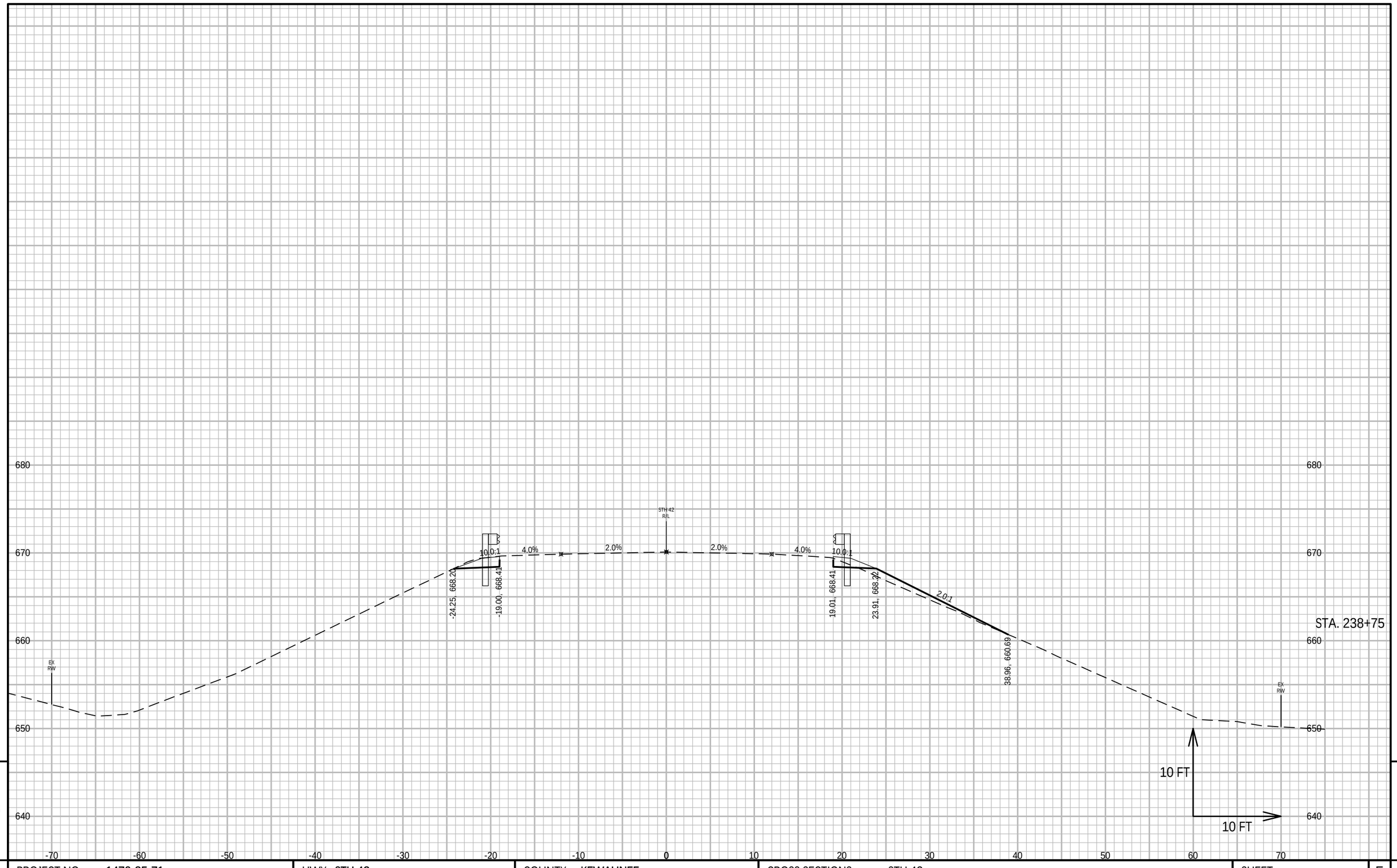
PLOT DATE : 1/7/2020 1:34 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 261	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090211-xs

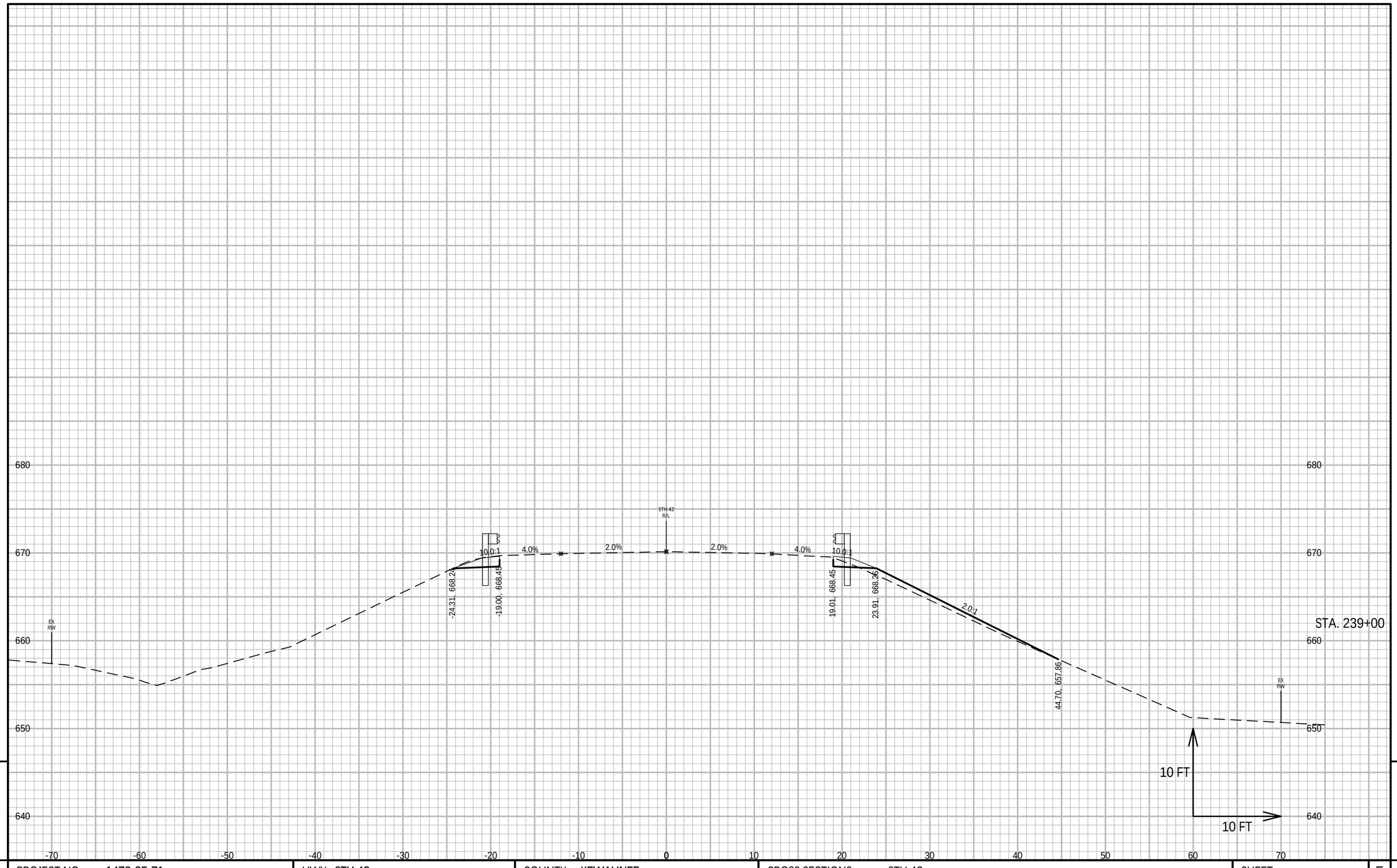
PLOT DATE : 1/7/2020 1:35 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 262	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090212-xs

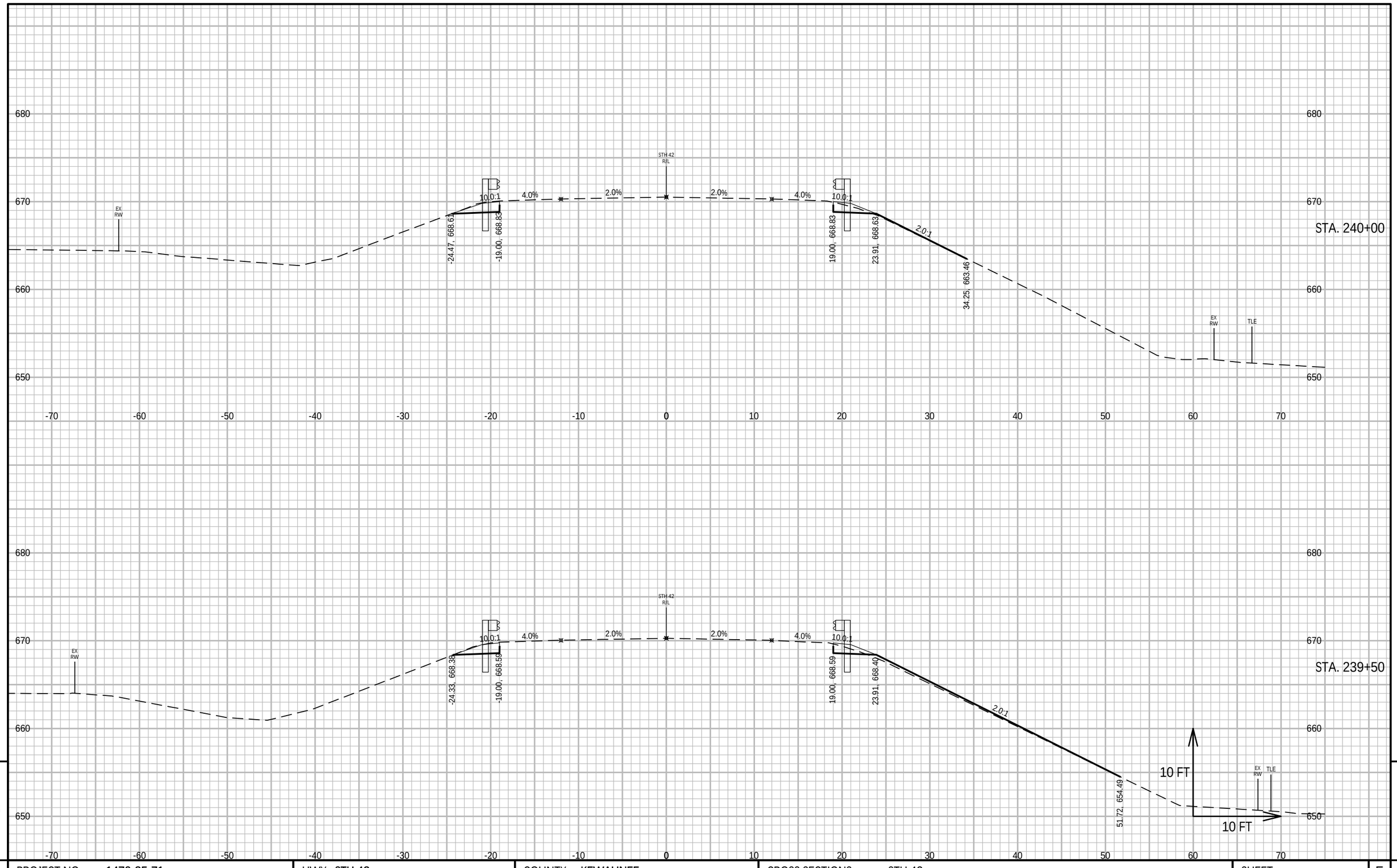
PLOT DATE : 1/7/2020 1:35 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 263	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090213-xs

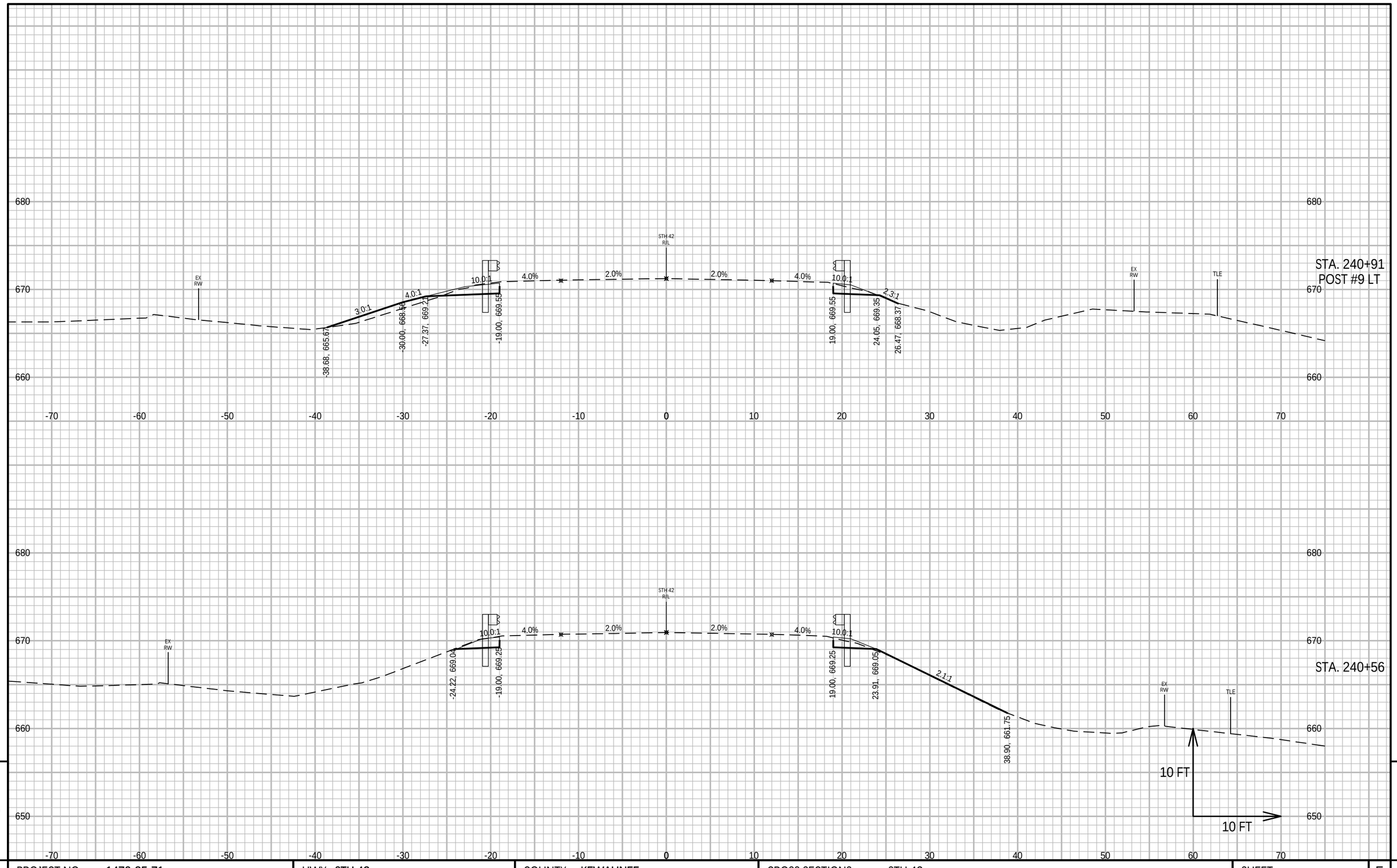
PLOT DATE : 1/7/2020 1:36 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 264 E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090214-xs

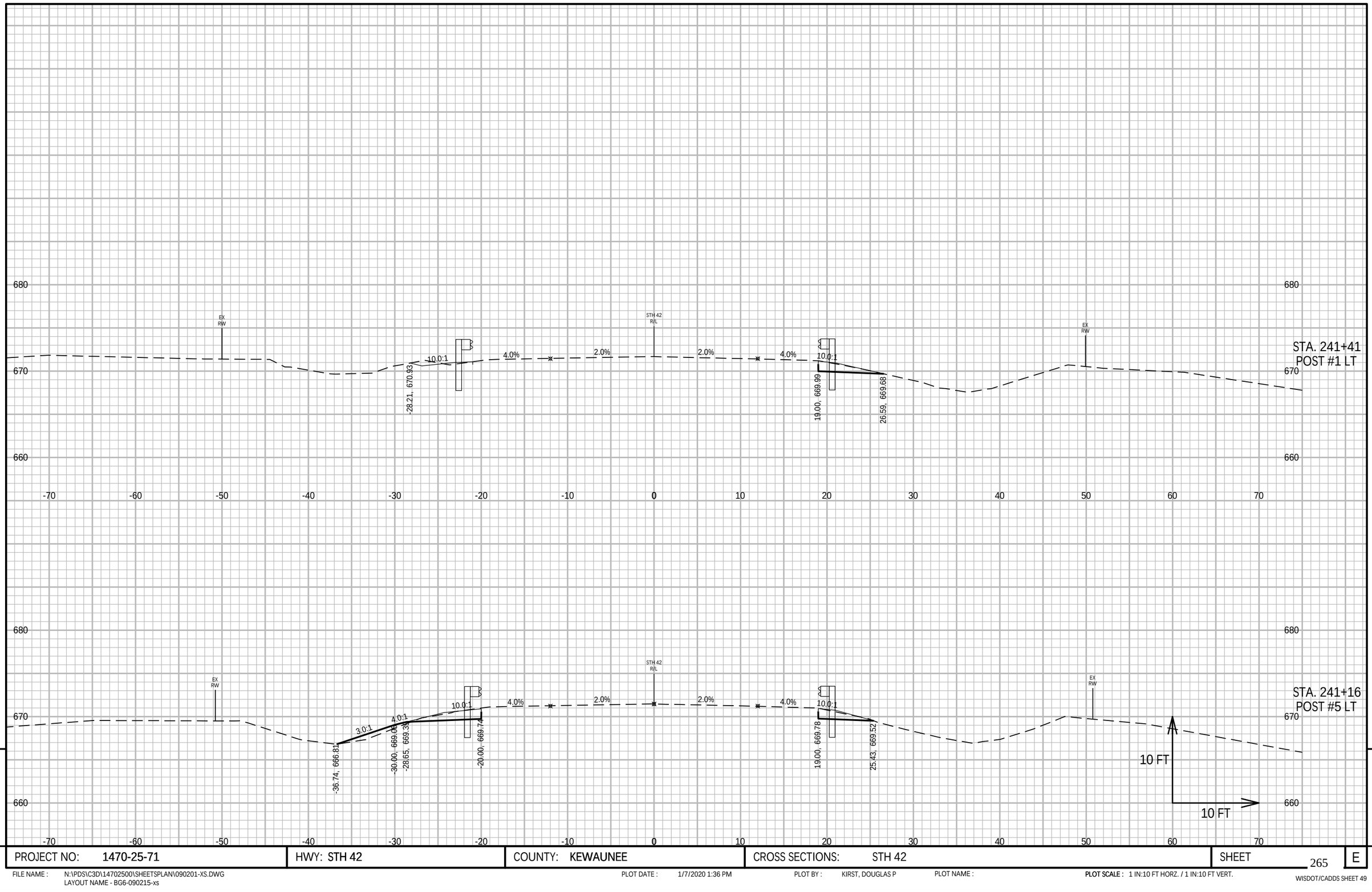
PLOT DATE : 1/7/2020 1:36 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 265	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090215-xs

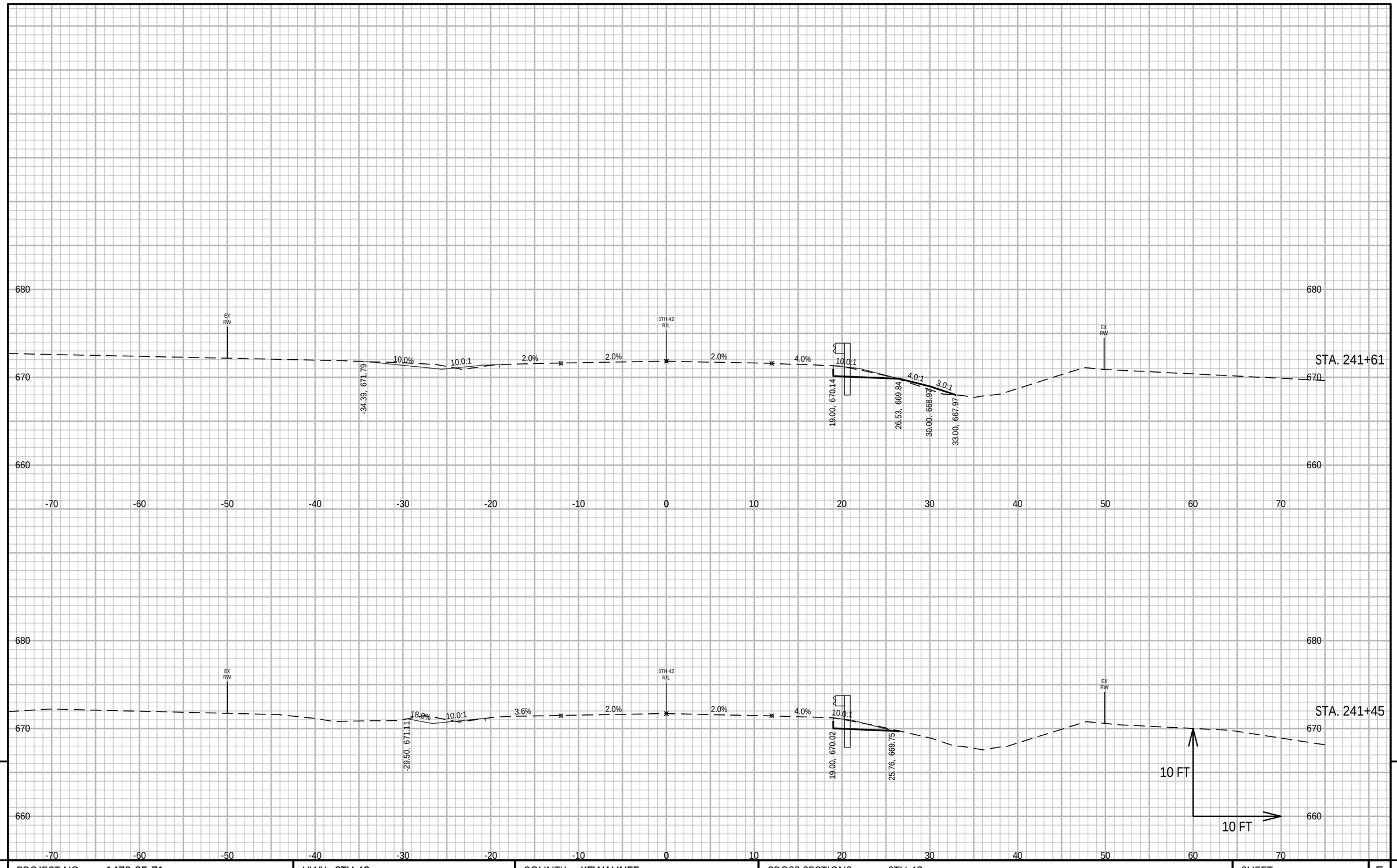
PLOT DATE : 1/7/2020 1:36 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 266	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090216-xs

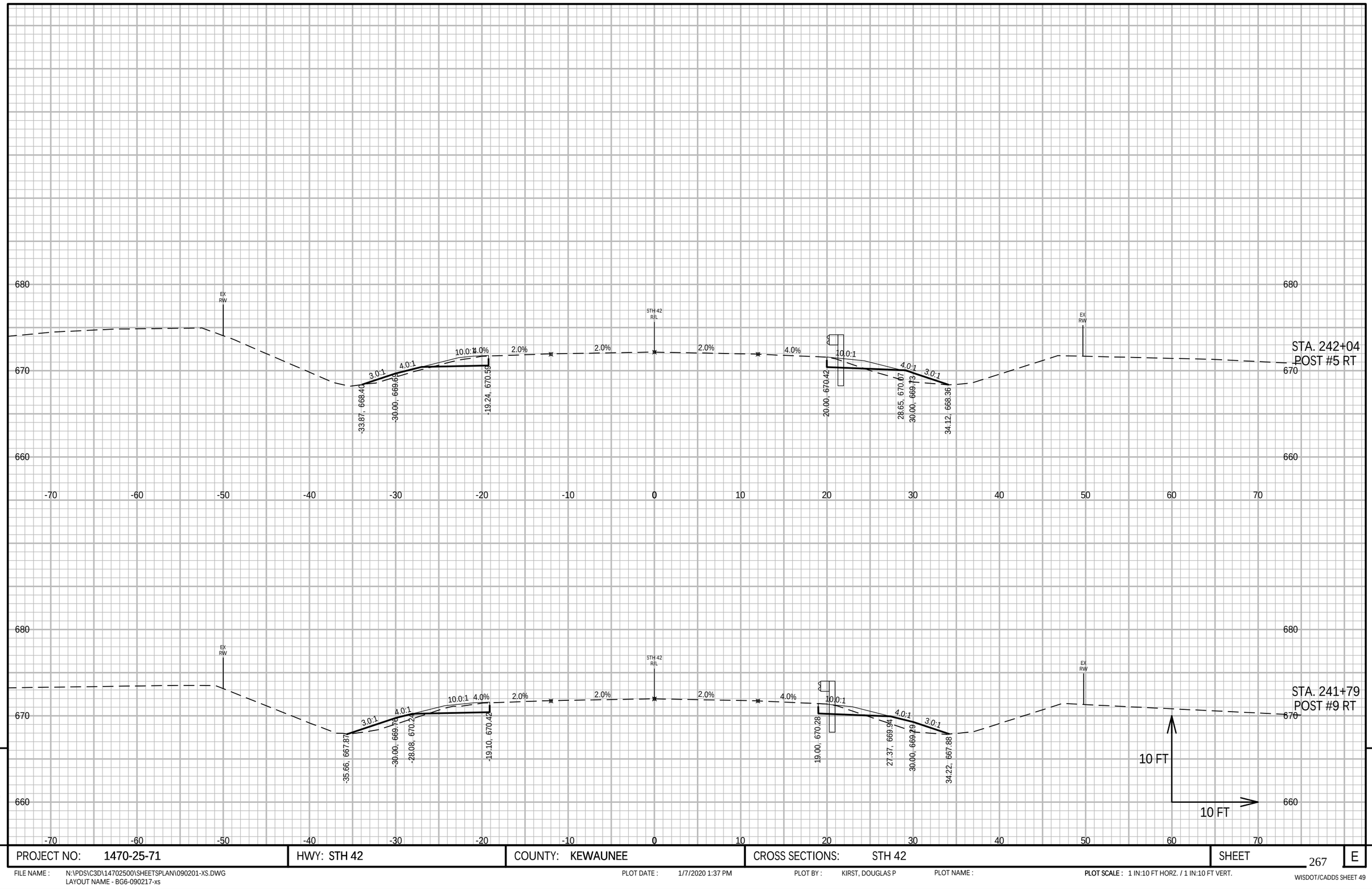
PLOT DATE : 1/7/2020 1:37 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 267	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090217-xs

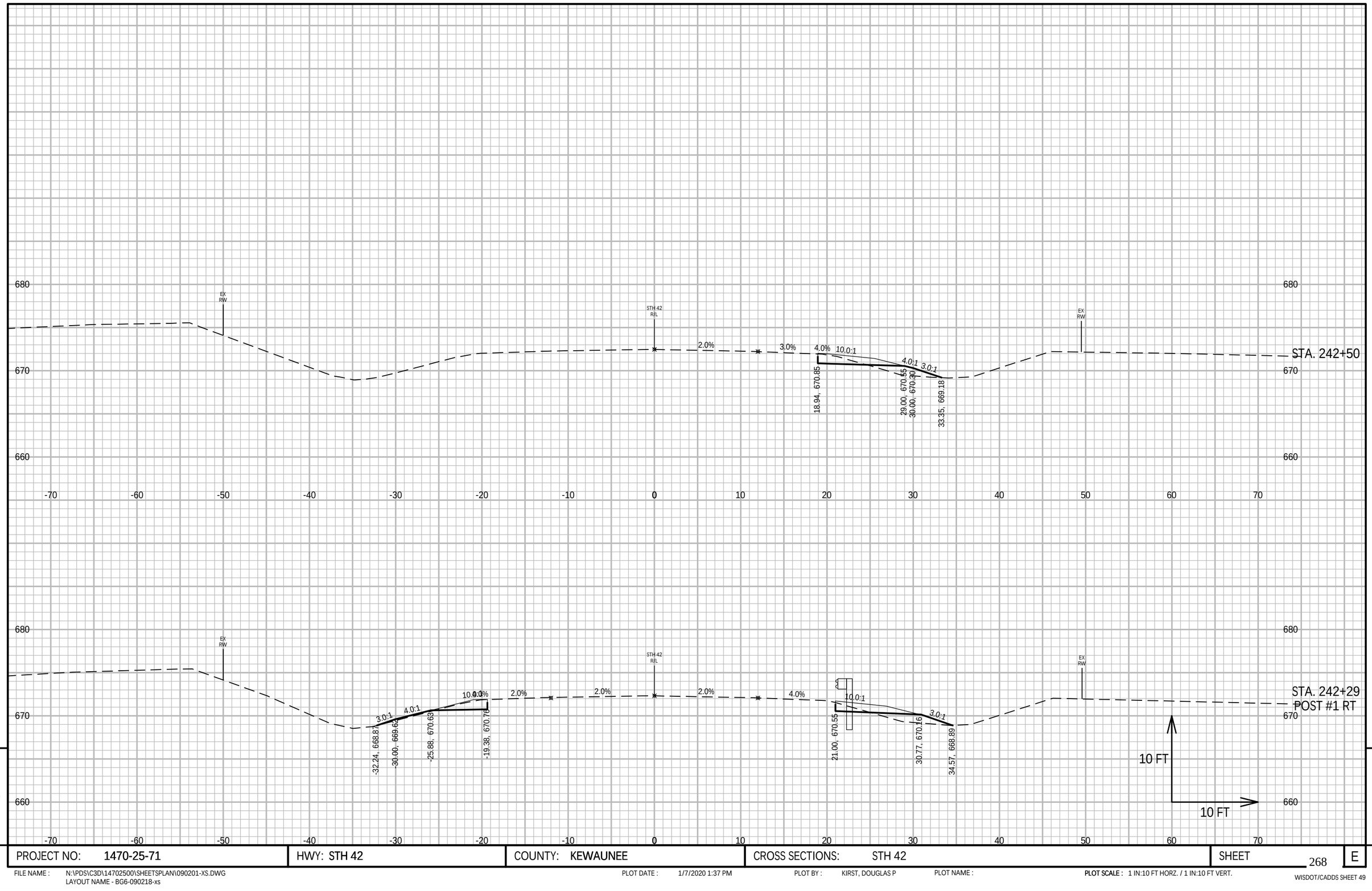
PLOT DATE : 1/7/2020 1:37 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 268	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090218-xs

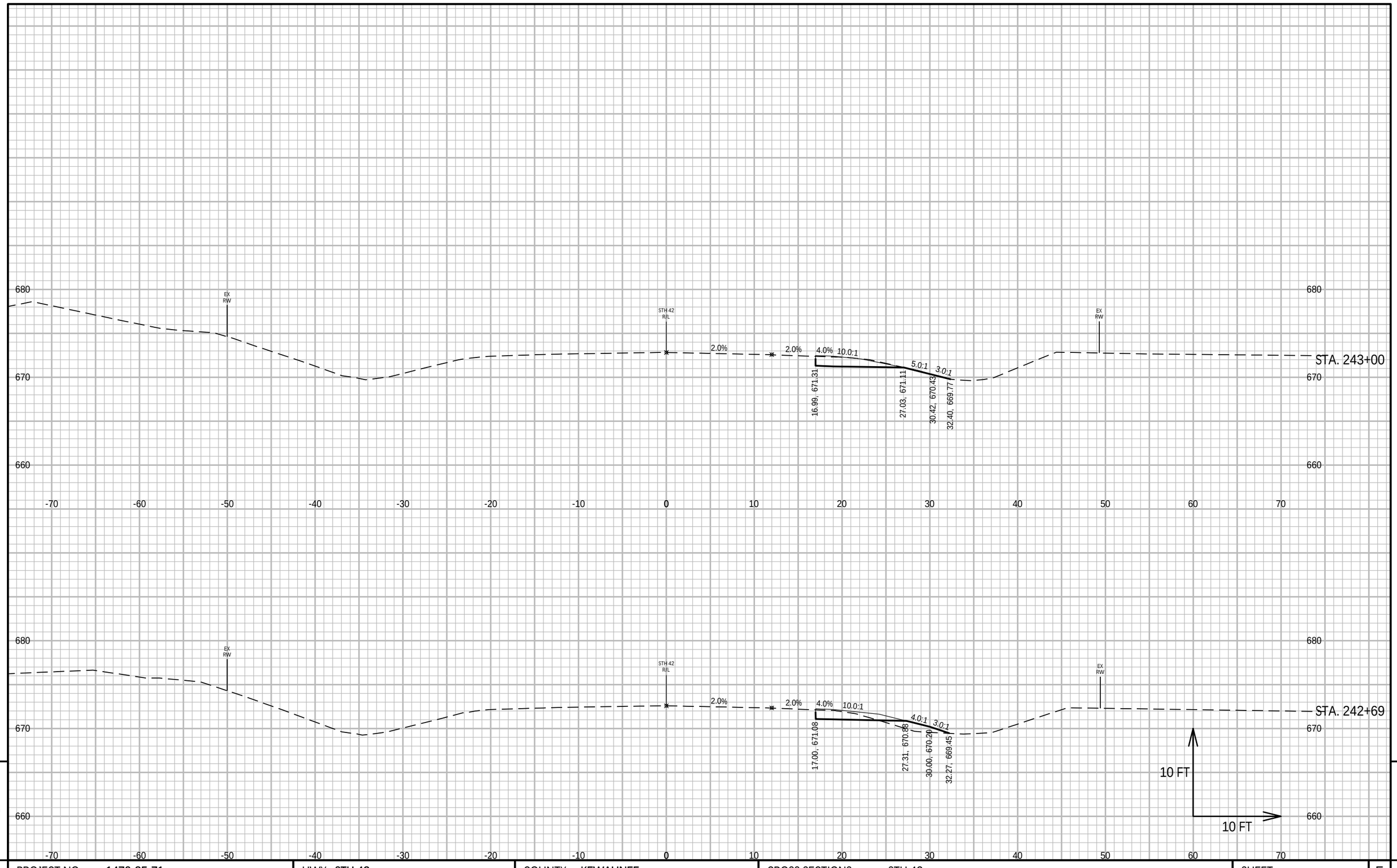
PLOT DATE : 1/7/2020 1:37 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 269	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090219-xs

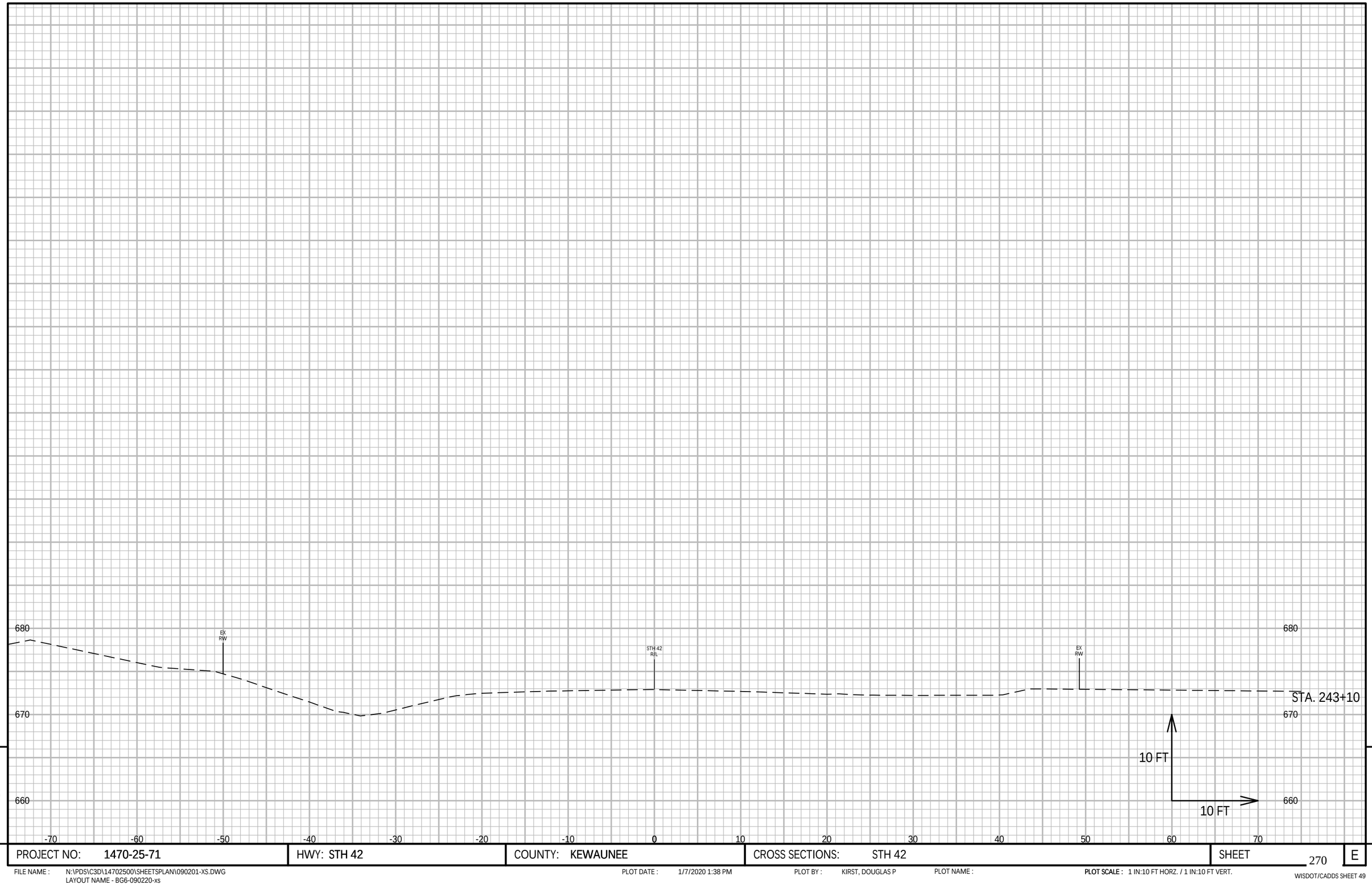
PLOT DATE : 1/7/2020 1:38 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 270	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG6-090220-xs

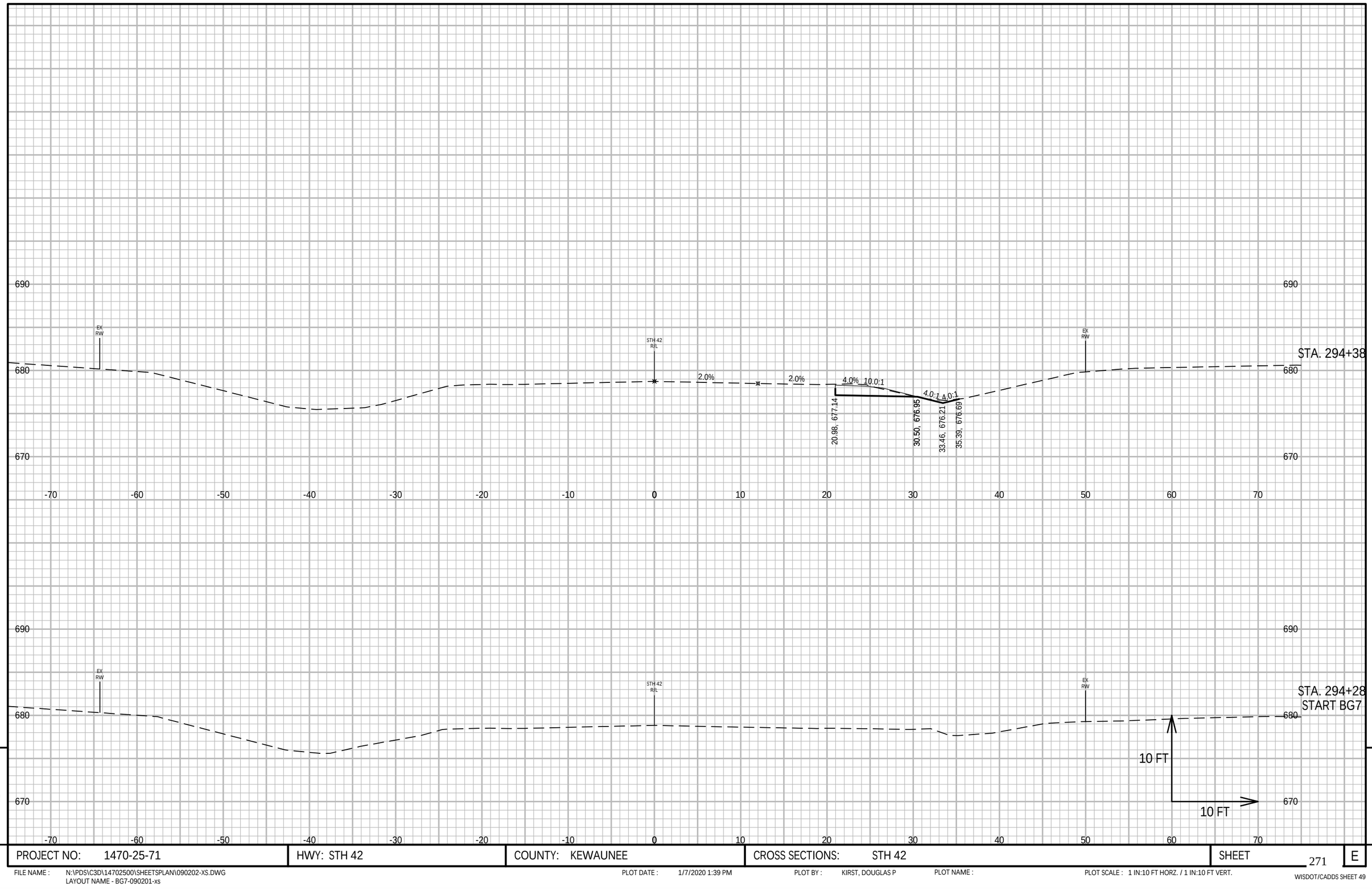
PLOT DATE : 1/7/2020 1:38 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

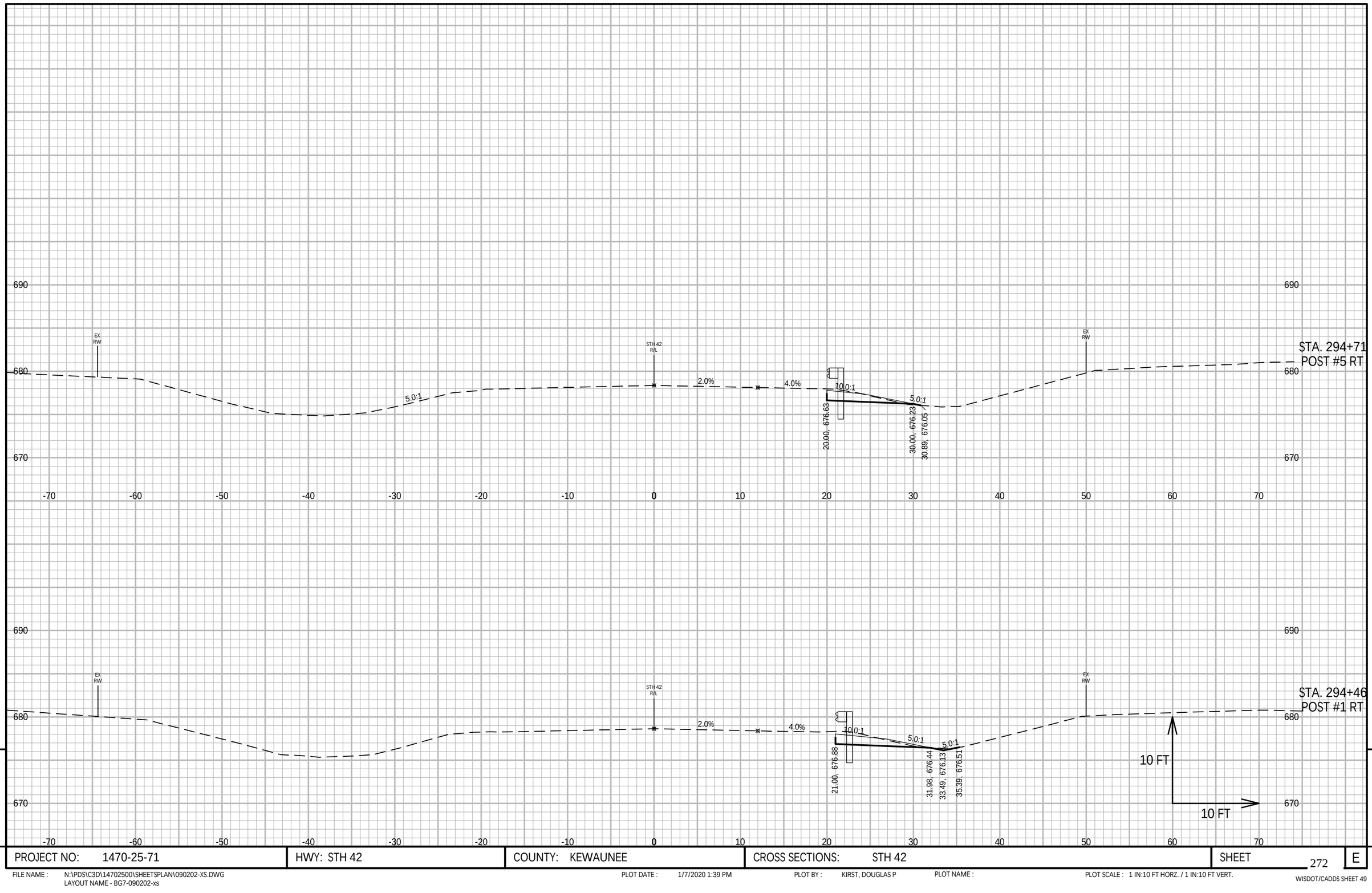
9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 271	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090201-xs

PLOT DATE : 1/7/2020 1:39 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

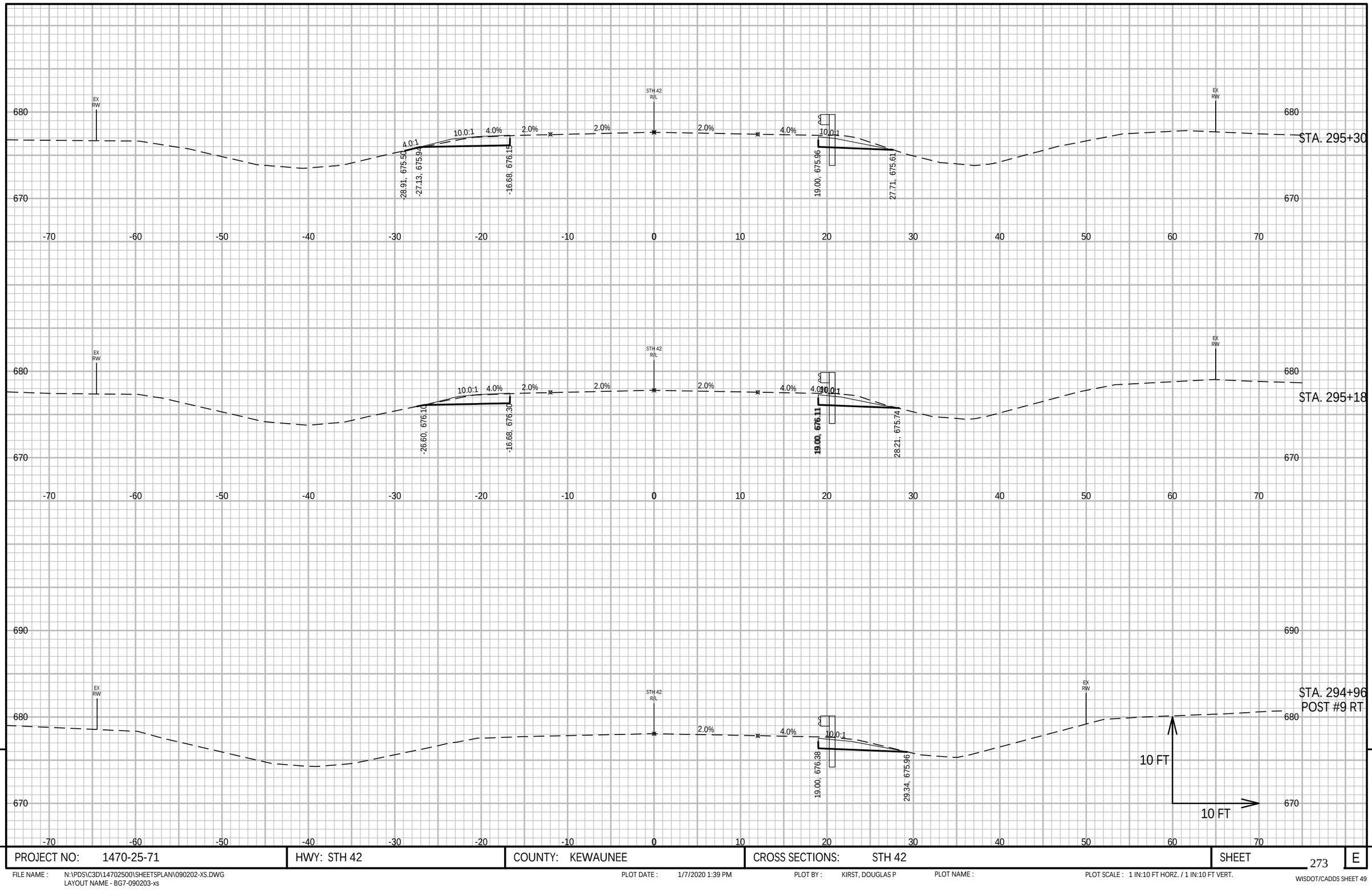
9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 272	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090202-xs

PLOT DATE : 1/7/2020 1:39 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



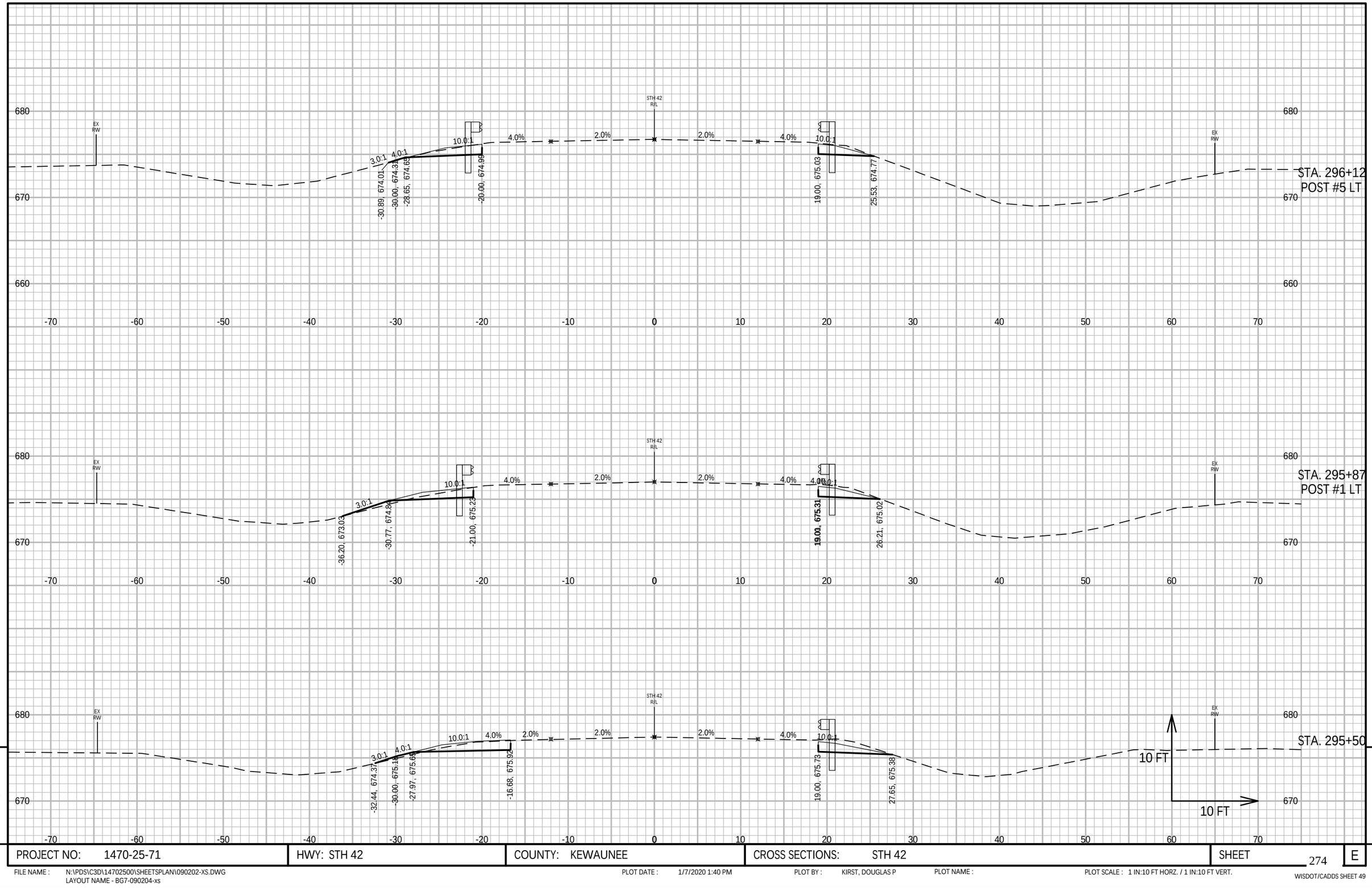
9 9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 273	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090203-xs

PLOT DATE : 1/7/2020 1:39 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

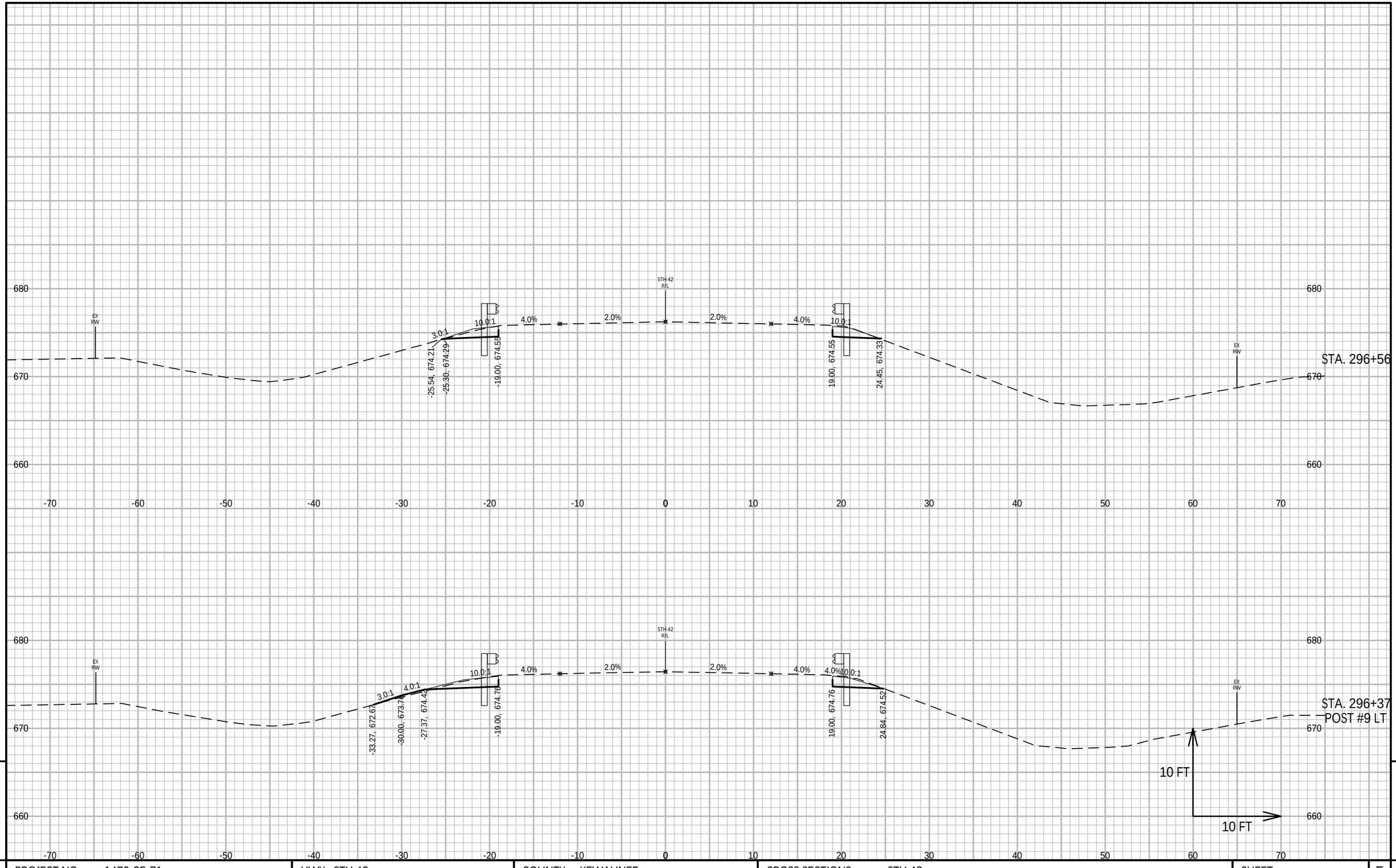


PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 274	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090204-xs

PLOT DATE : 1/7/2020 1:40 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 275	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090205-xs

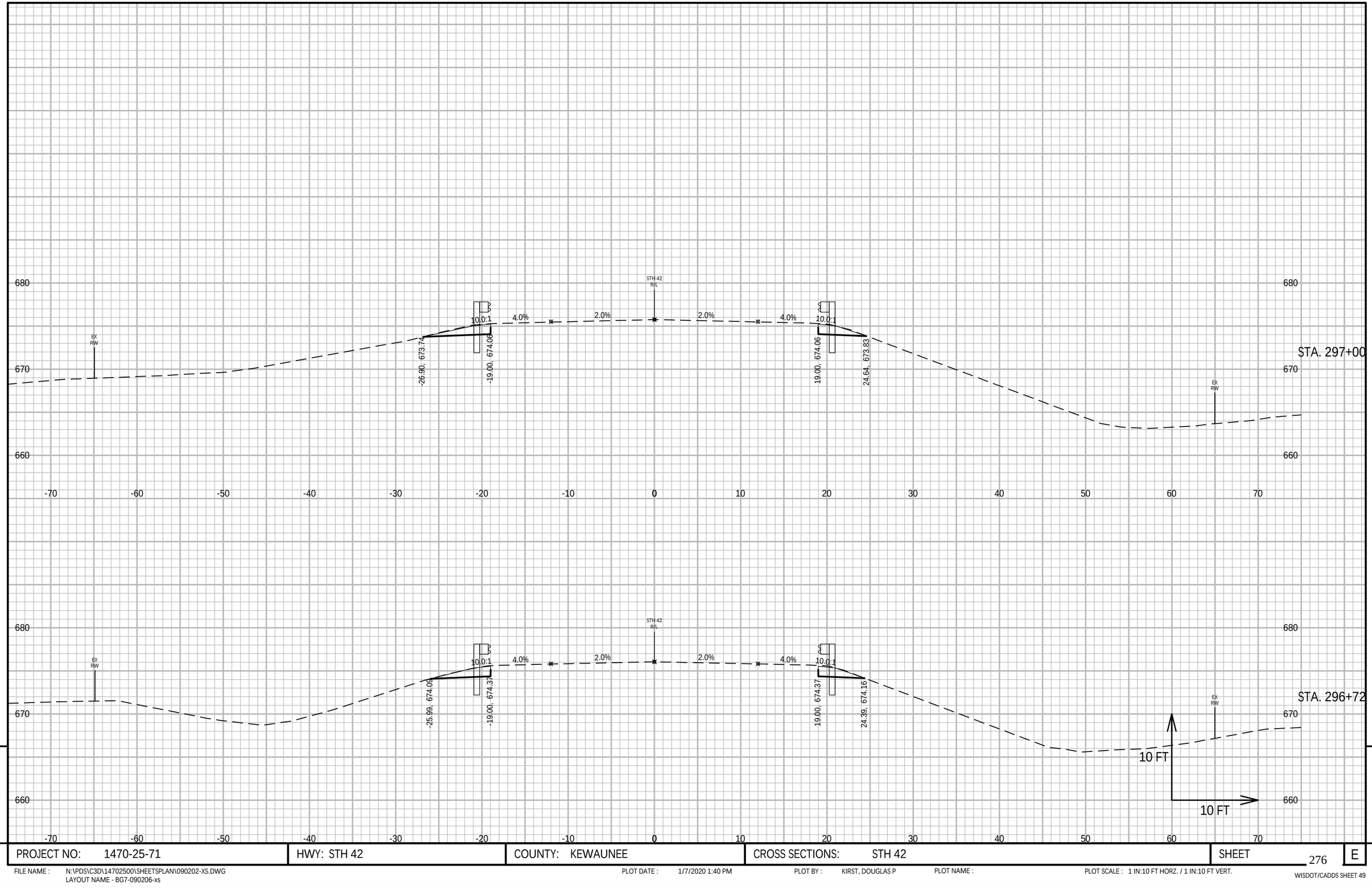
PLOT DATE : 1/7/2020 1:40 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 276	E

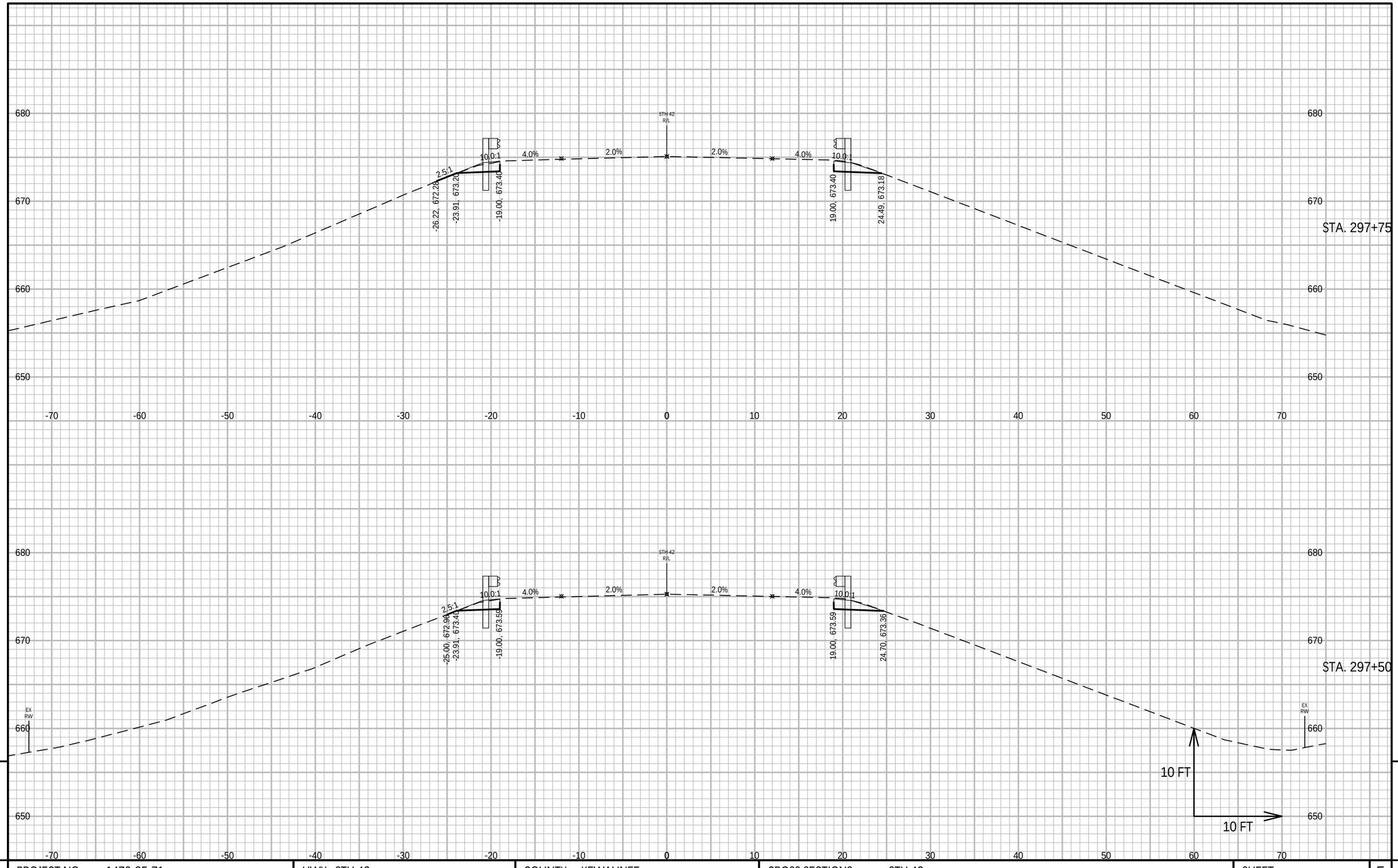
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090206-xs

PLOT DATE : 1/7/2020 1:40 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 277	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090207-xs

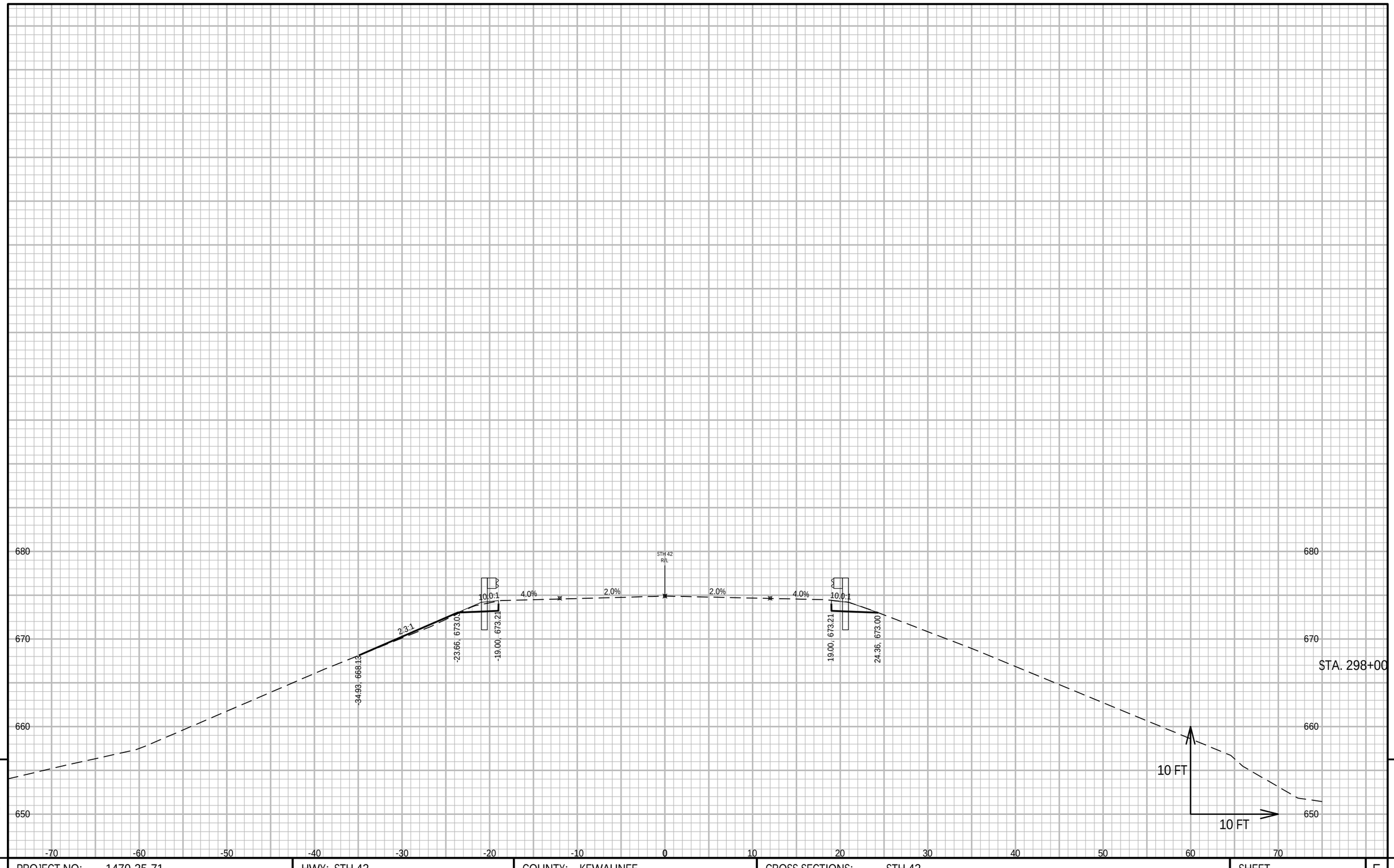
PLOT DATE : 1/7/2020 1:40 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 278	E

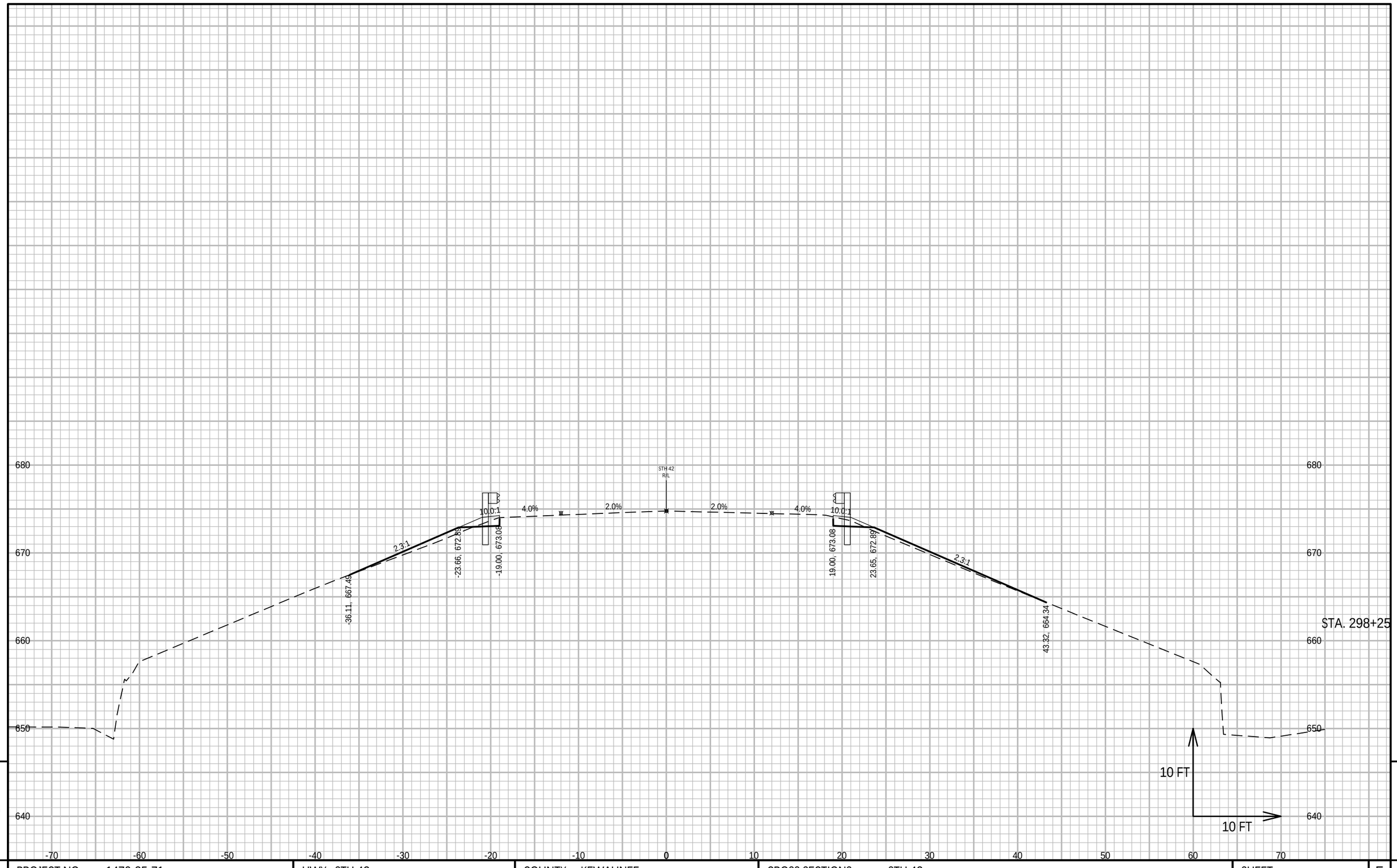
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090208-xs

PLOT DATE : 1/7/2020 1:41 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 279	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090209-xs

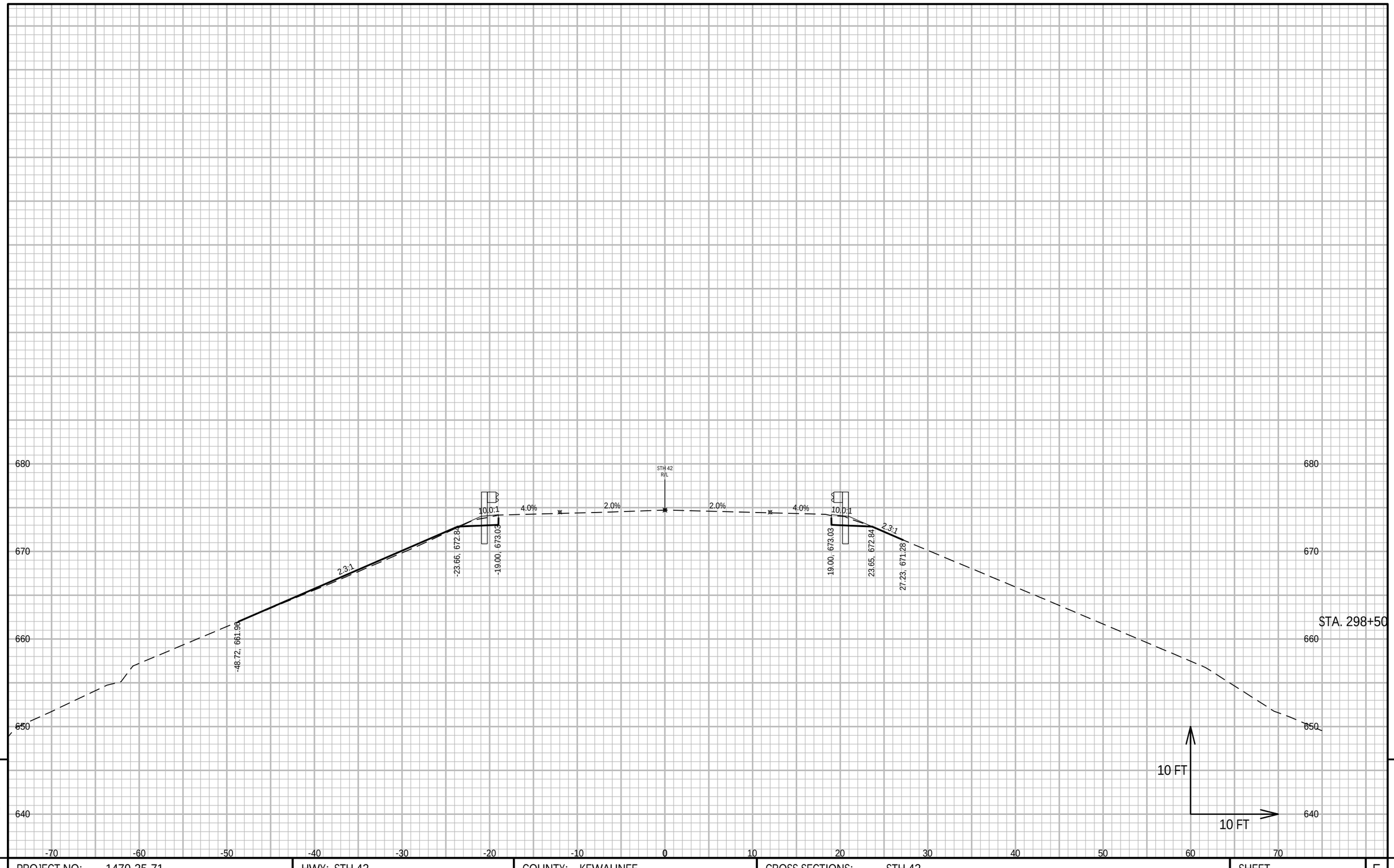
PLOT DATE : 1/7/2020 1:41 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 280	E

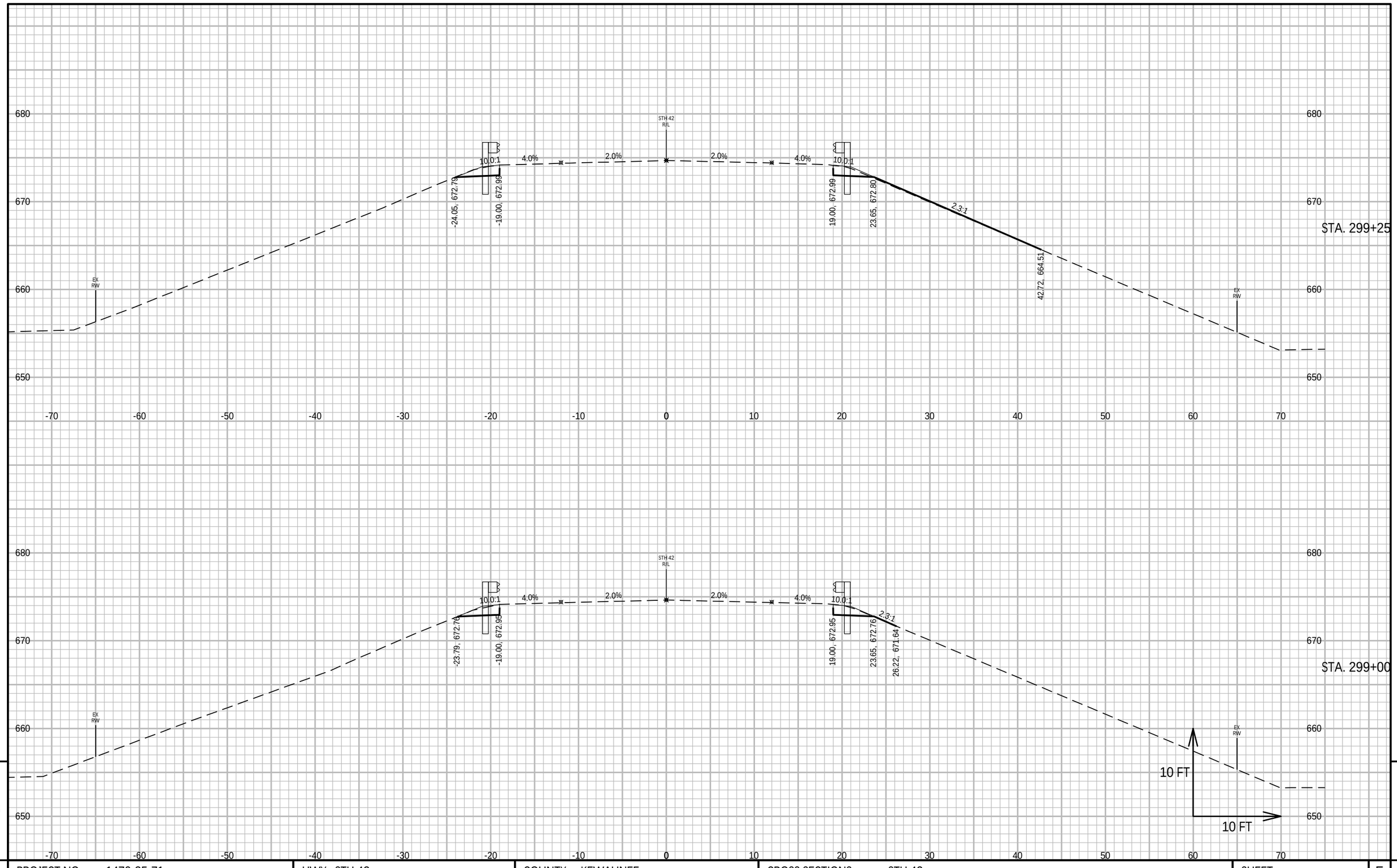
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090210-xs

PLOT DATE : 1/7/2020 1:41 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 281	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090211-xs

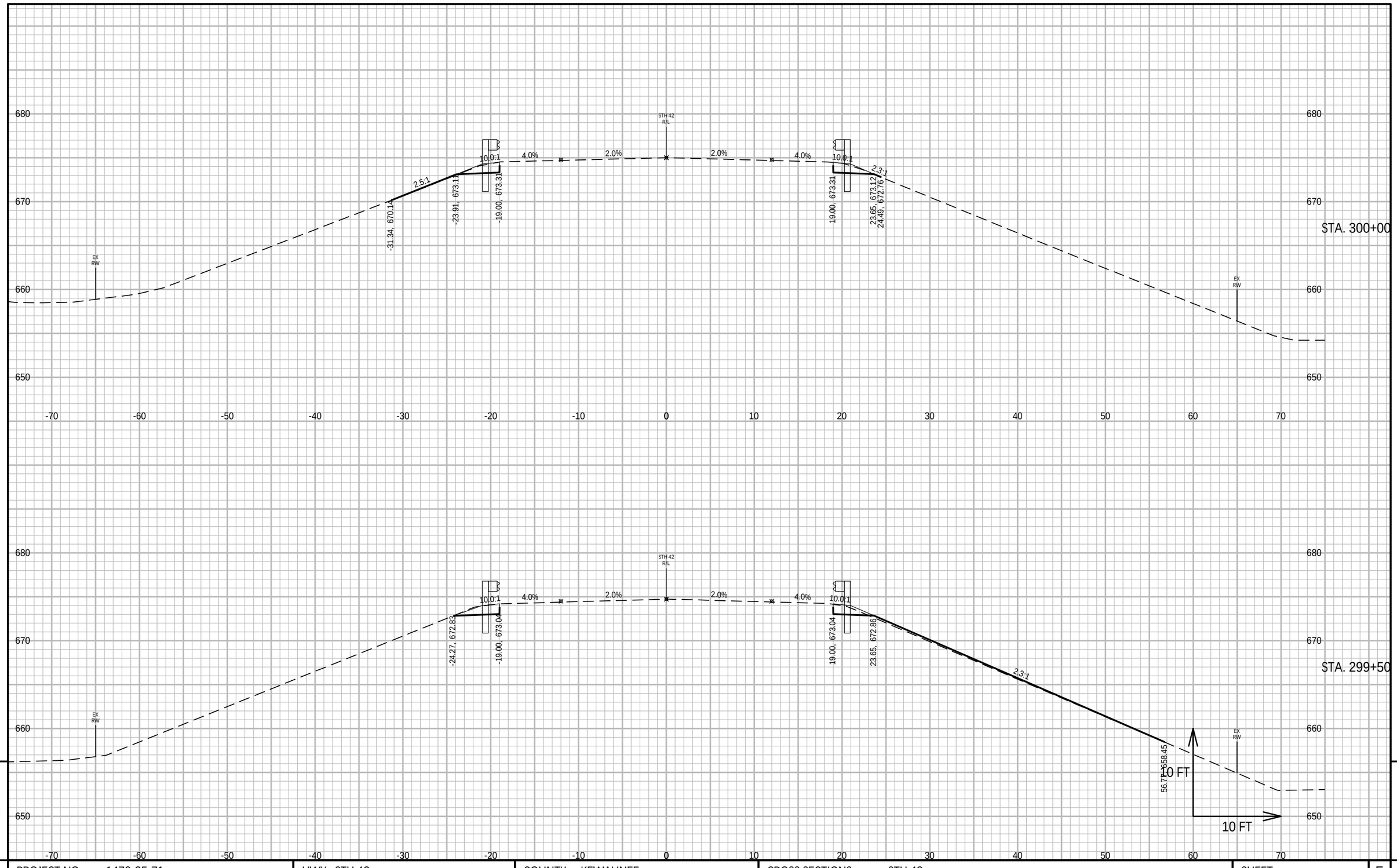
PLOT DATE : 1/7/2020 1:41 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 282	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090212-xs

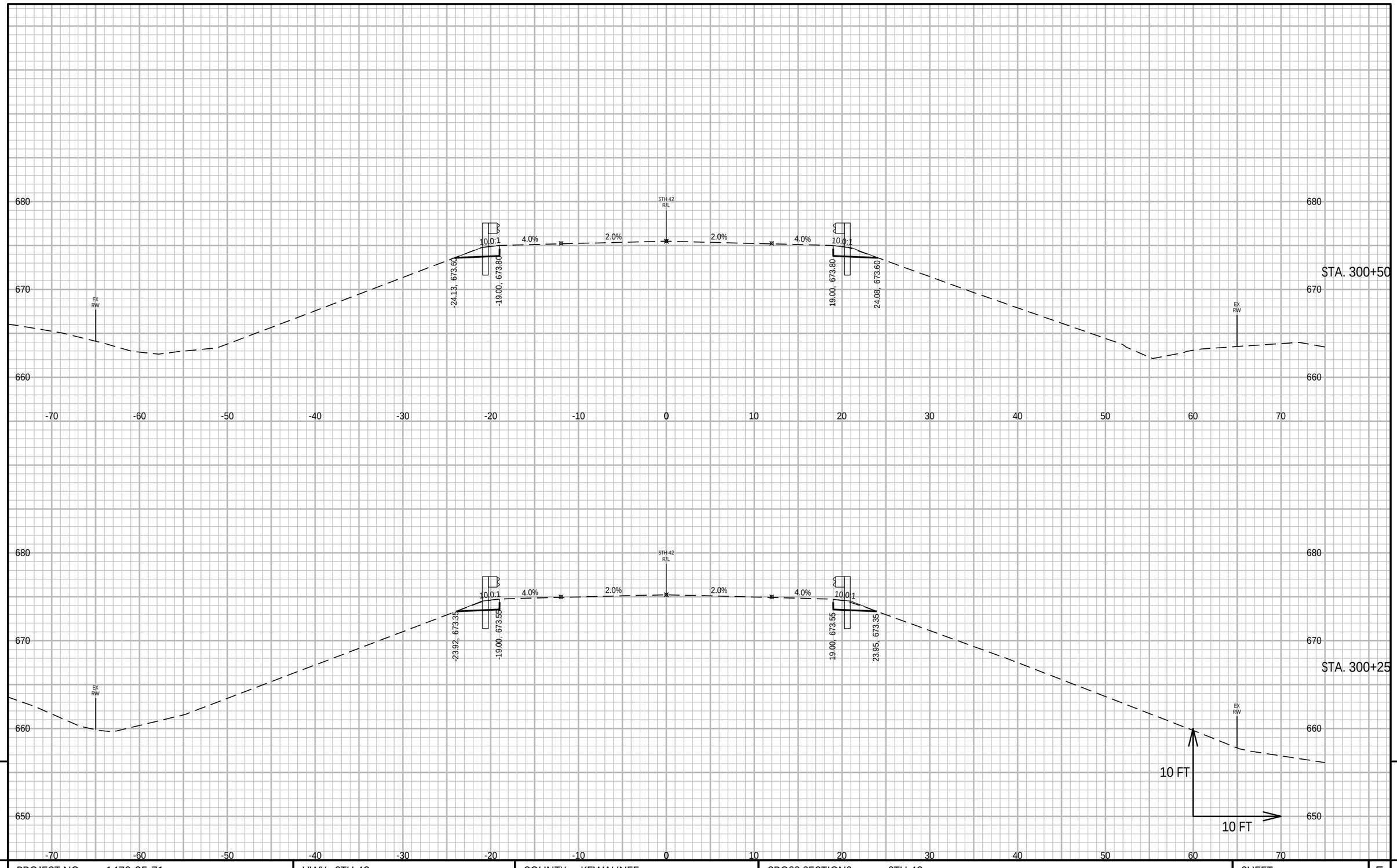
PLOT DATE : 1/7/2020 1:42 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 283	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090213-xs

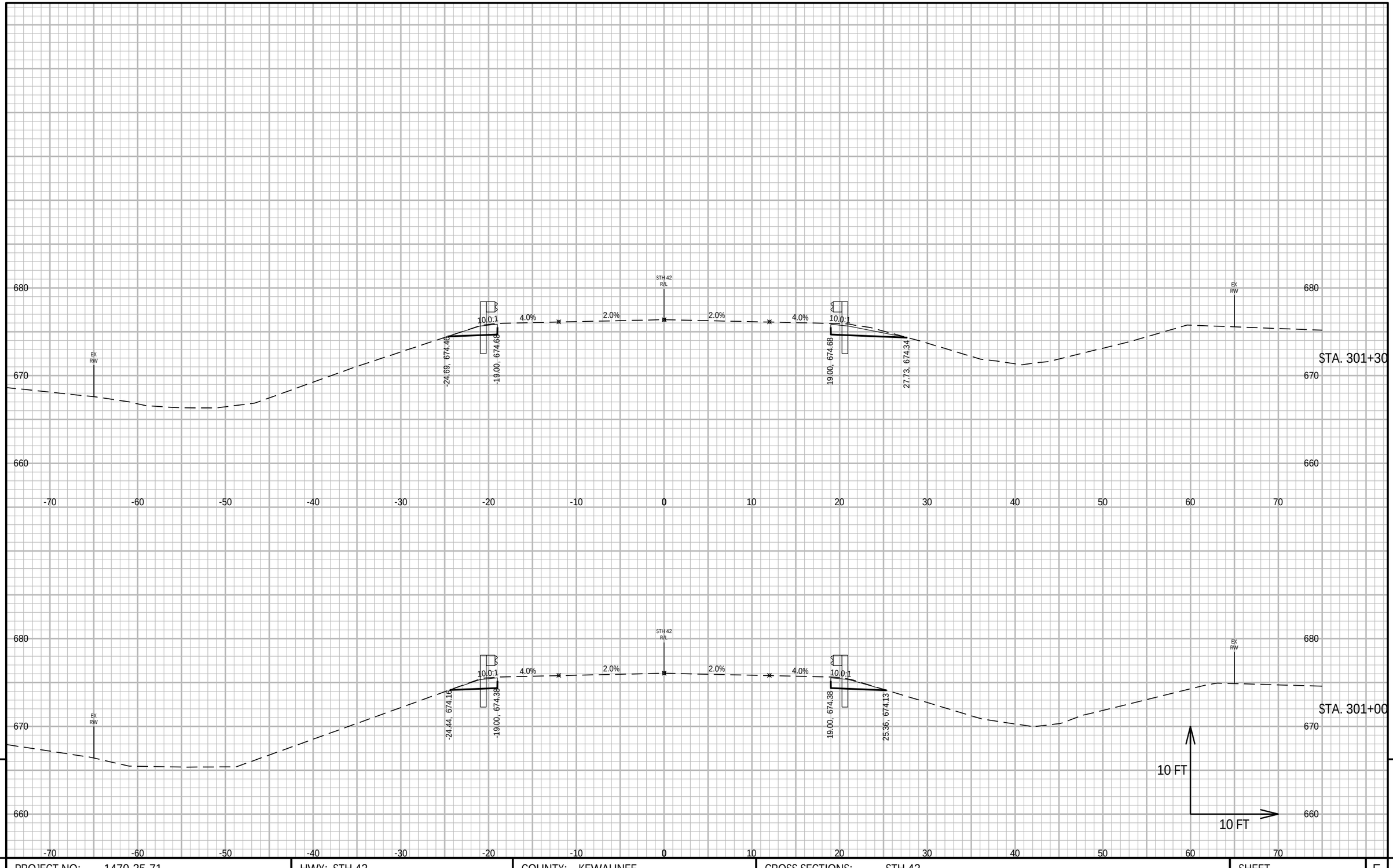
PLOT DATE : 1/7/2020 1:42 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 284	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090214-xs

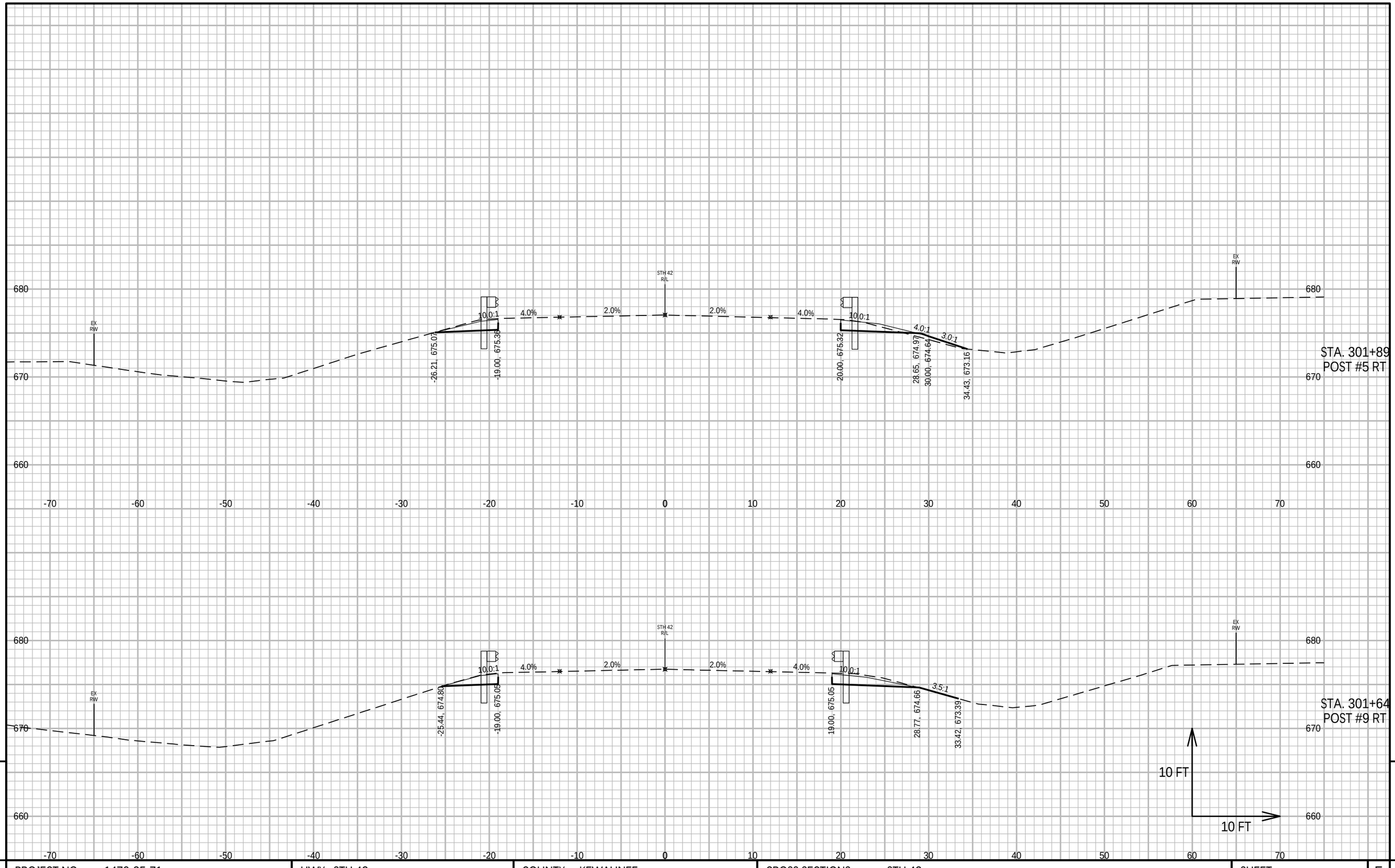
PLOT DATE : 1/7/2020 1:42 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 285	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090215-xs

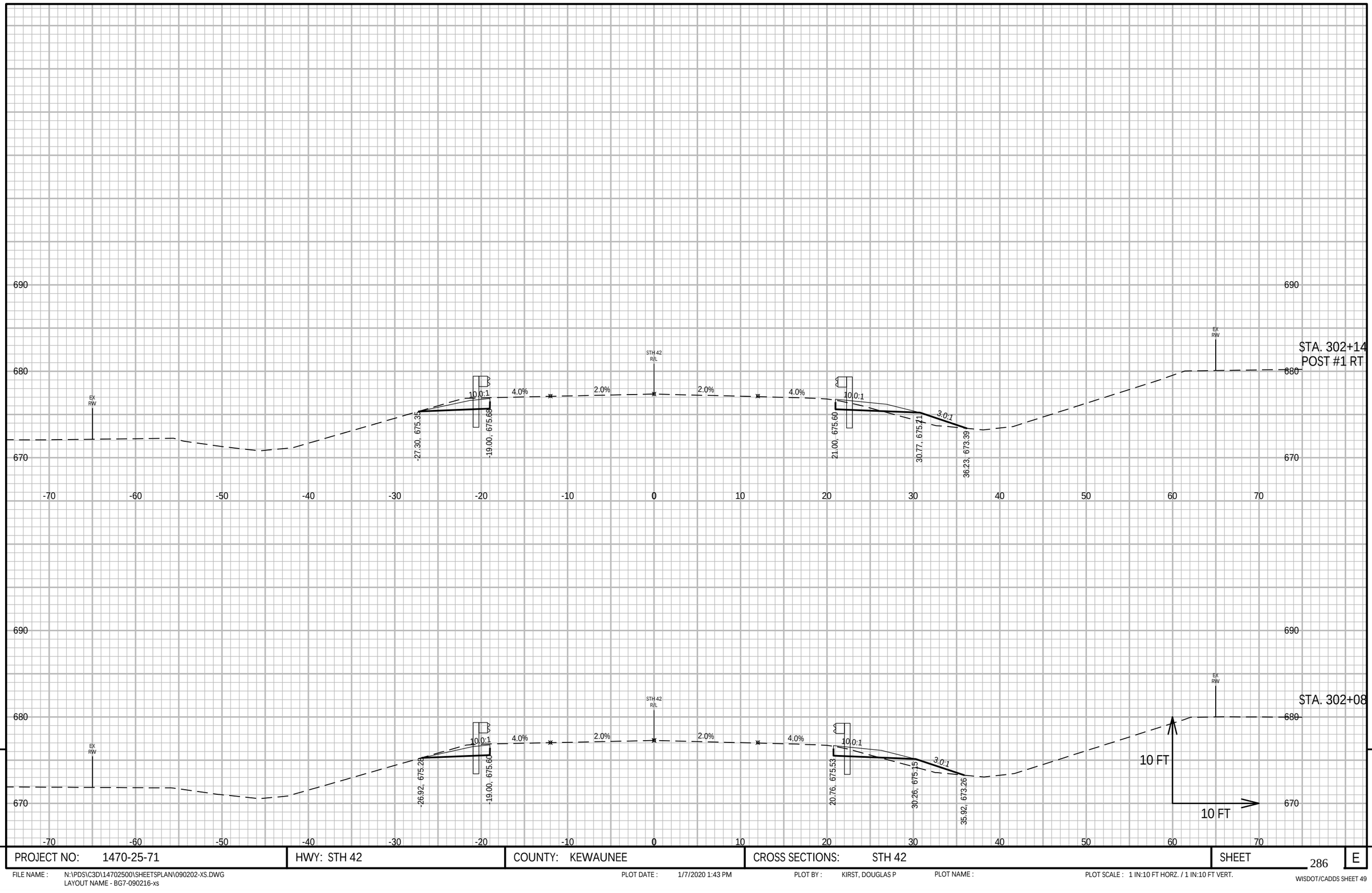
PLOT DATE : 1/7/2020 1:42 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



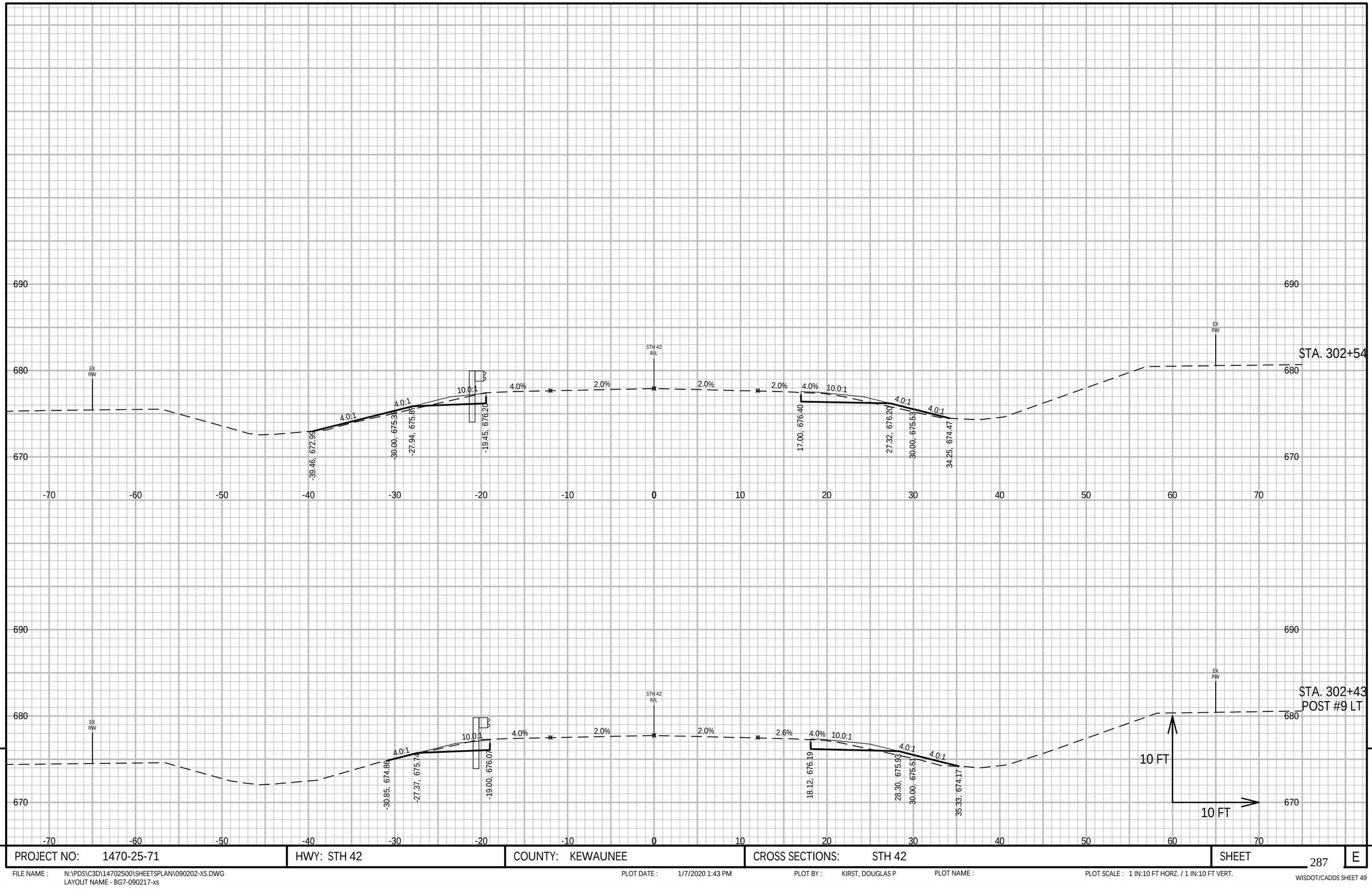
9 9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 286	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090216-xs

PLOT DATE : 1/7/2020 1:43 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 287	E

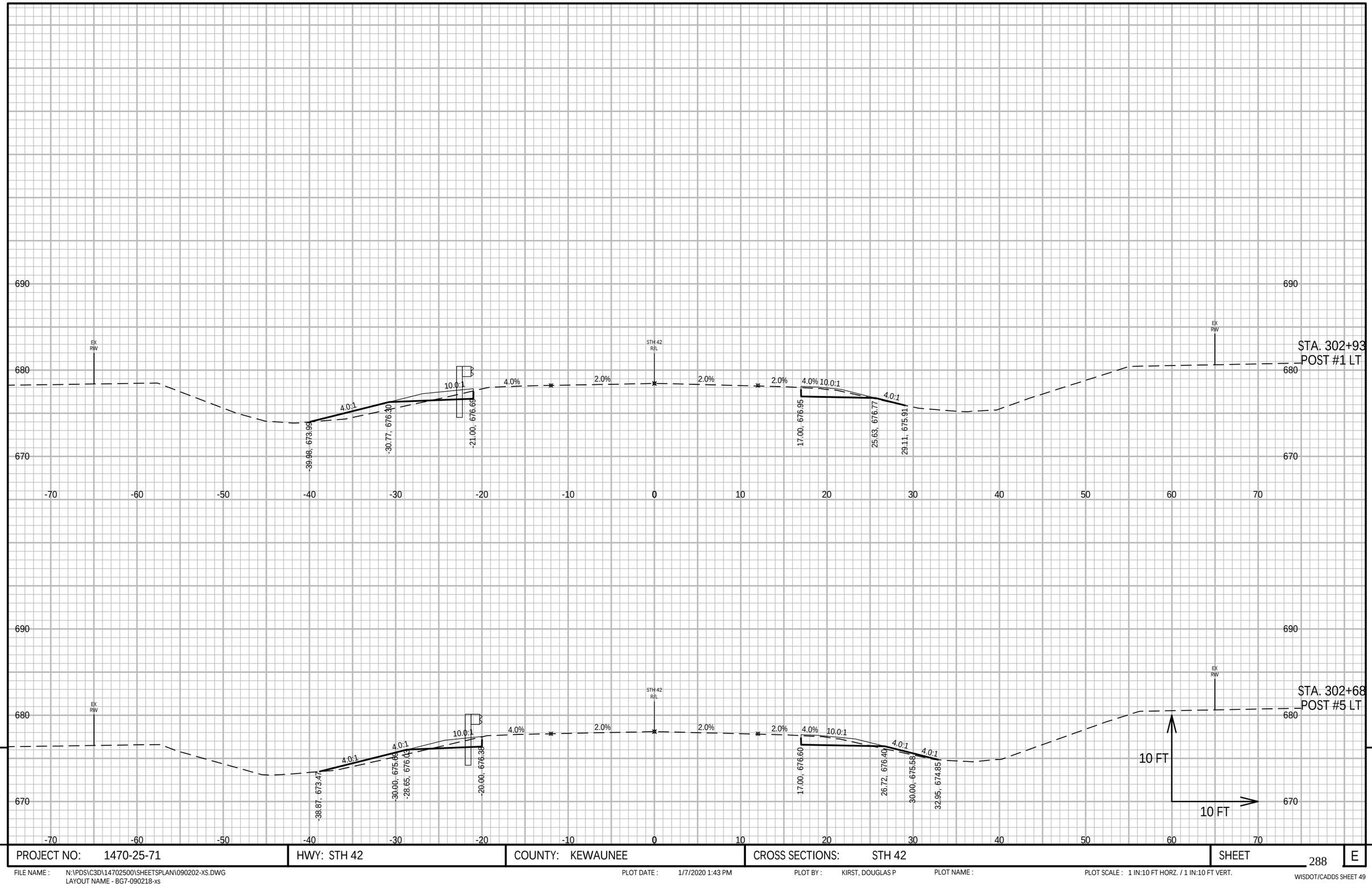
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090217-xs

PLOT DATE : 1/7/2020 1:43 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

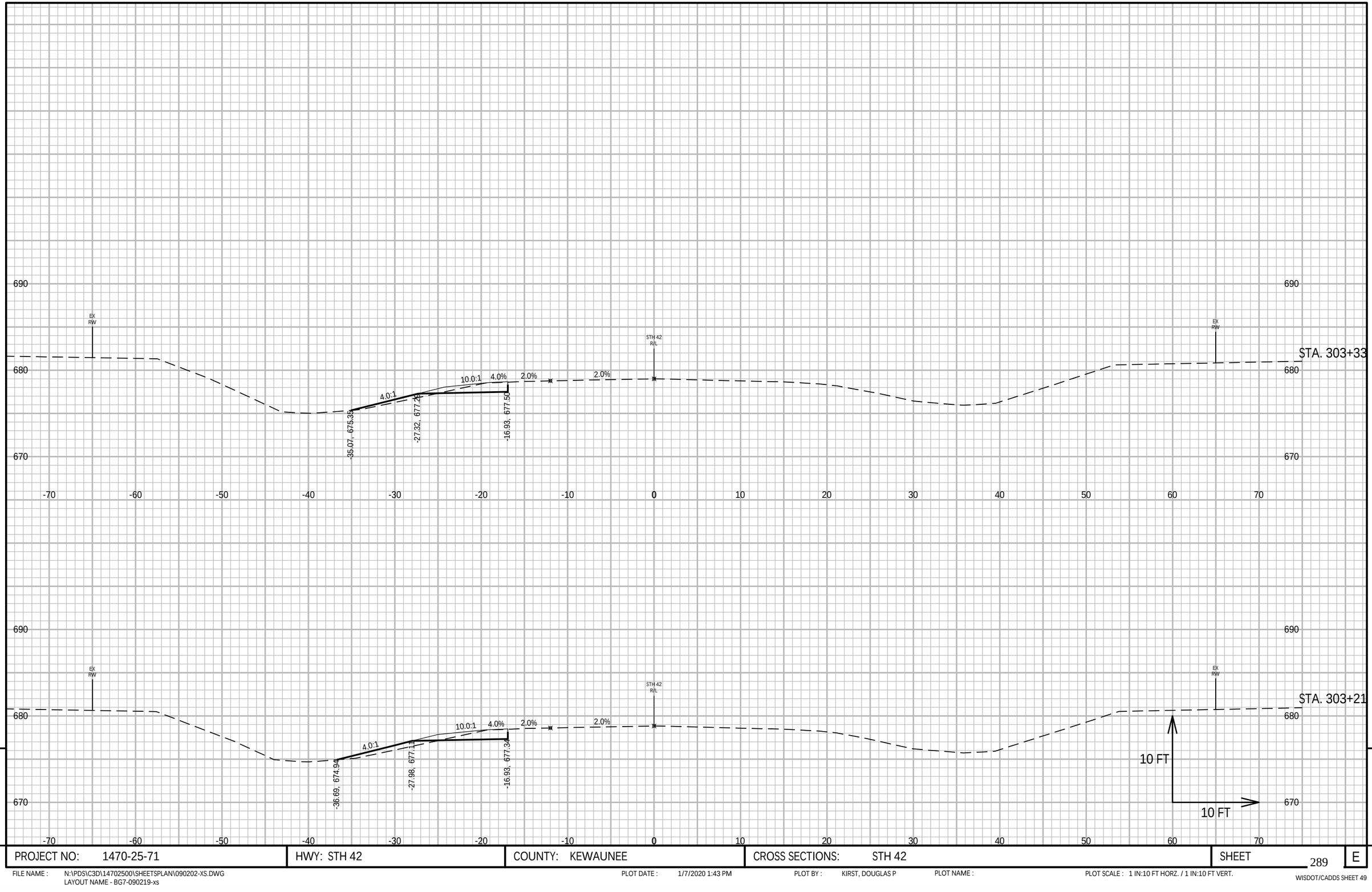


PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 288	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090218-xs

PLOT DATE : 1/7/2020 1:43 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

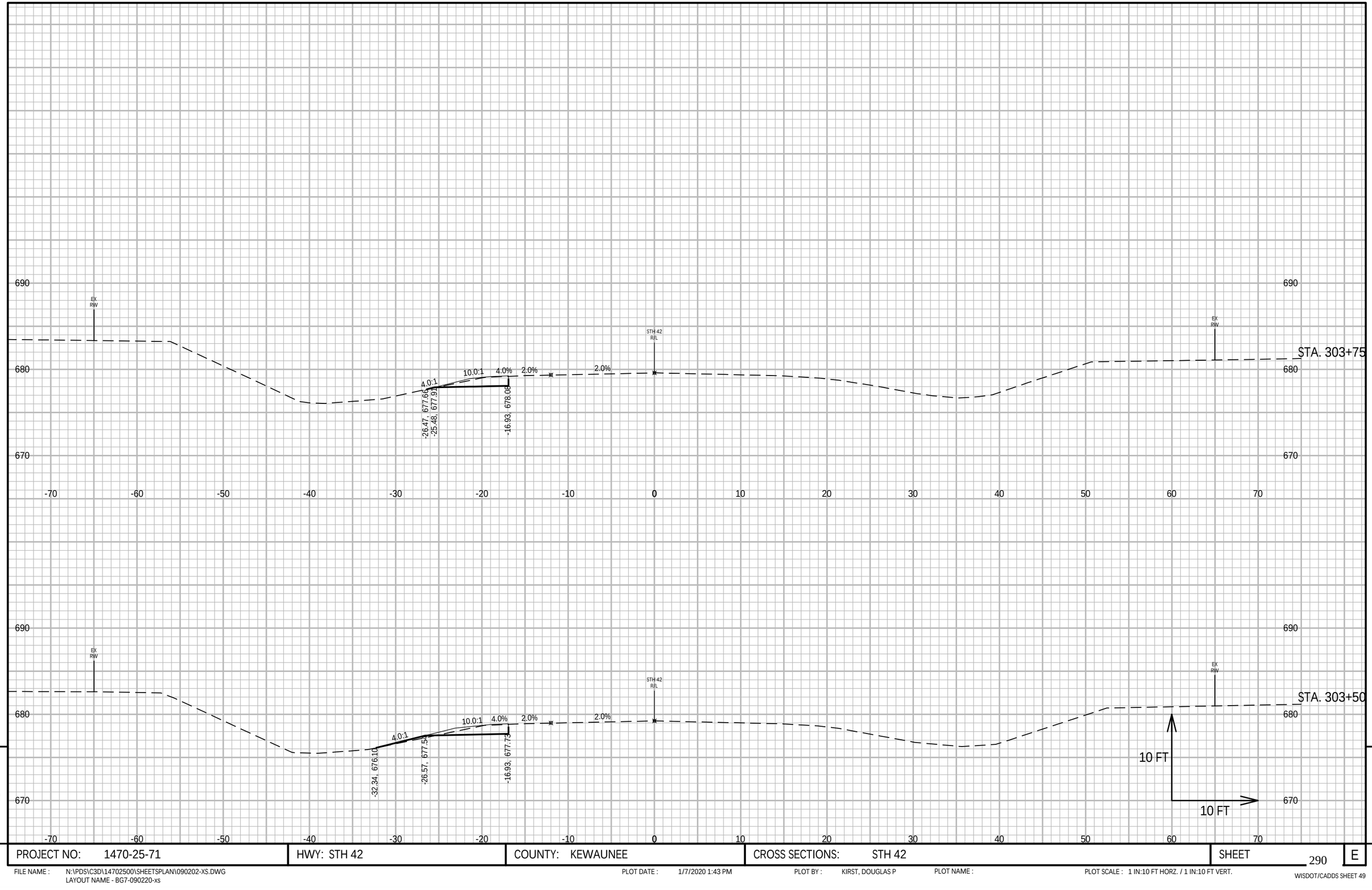
9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 289	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090219-xs

PLOT DATE : 1/7/2020 1:43 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

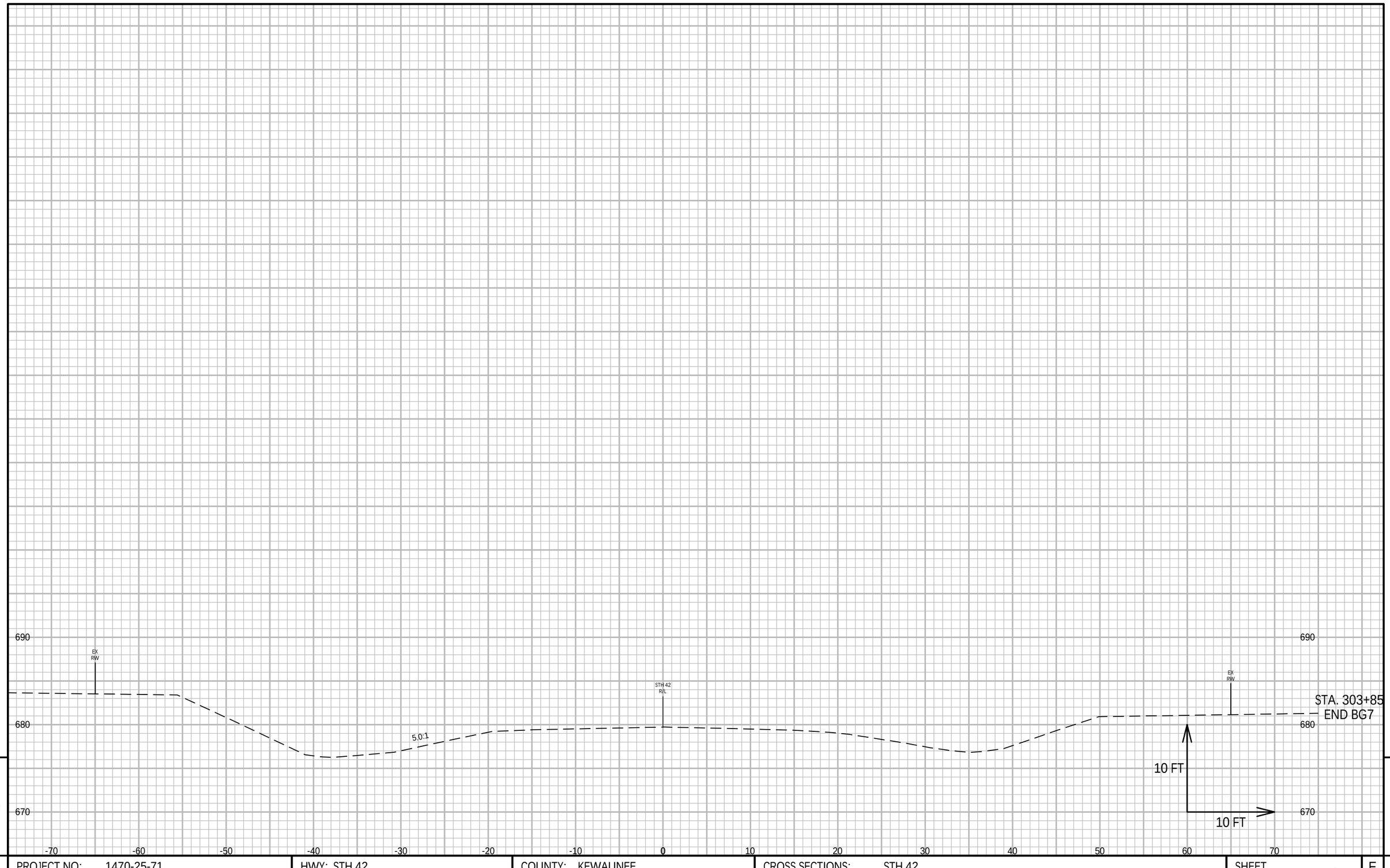
9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 290	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090220-xs

PLOT DATE : 1/7/2020 1:43 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 291	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - BG7-090221-xs

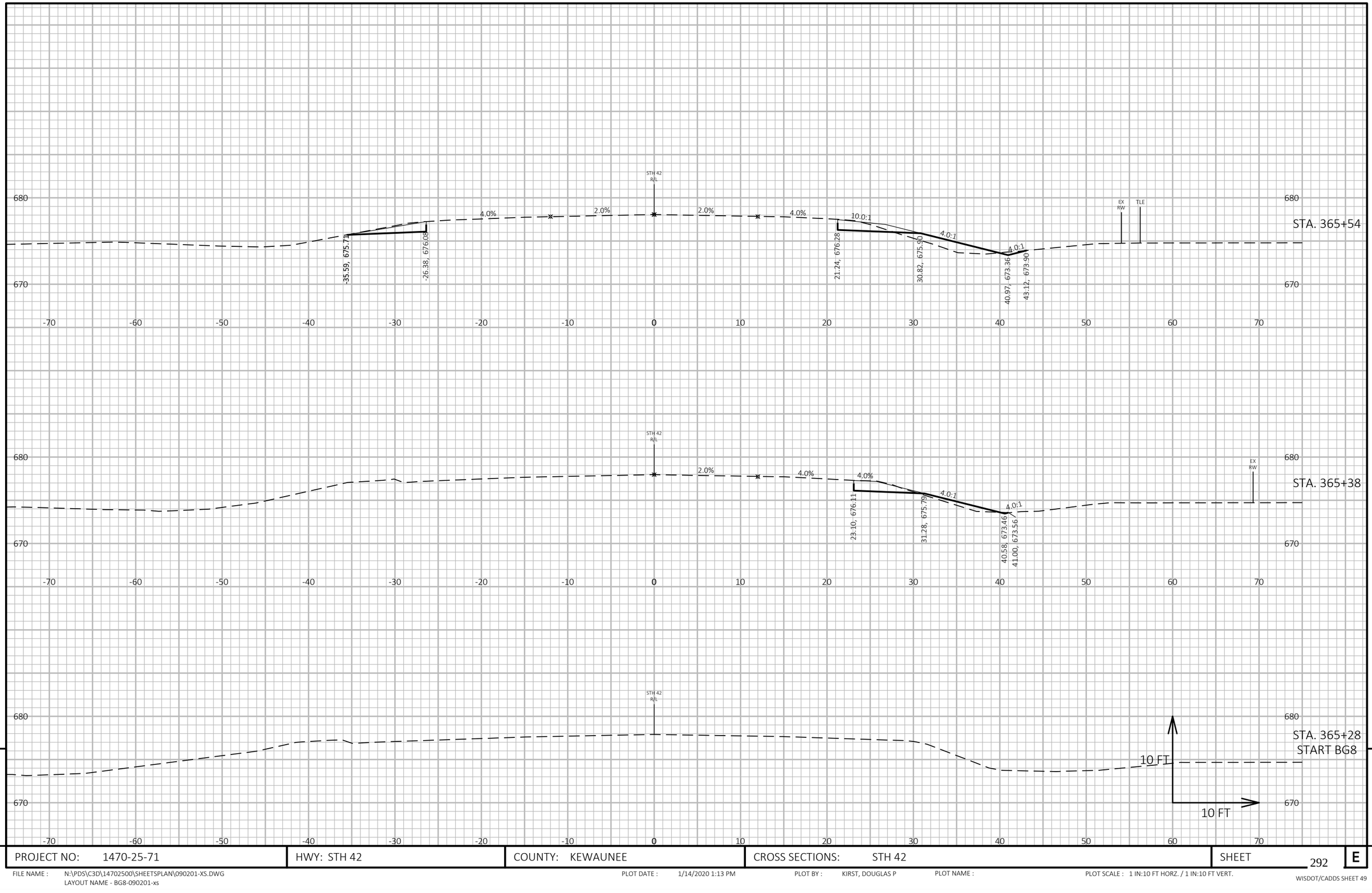
PLOT DATE : 1/7/2020 1:44 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 292	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090201-xs

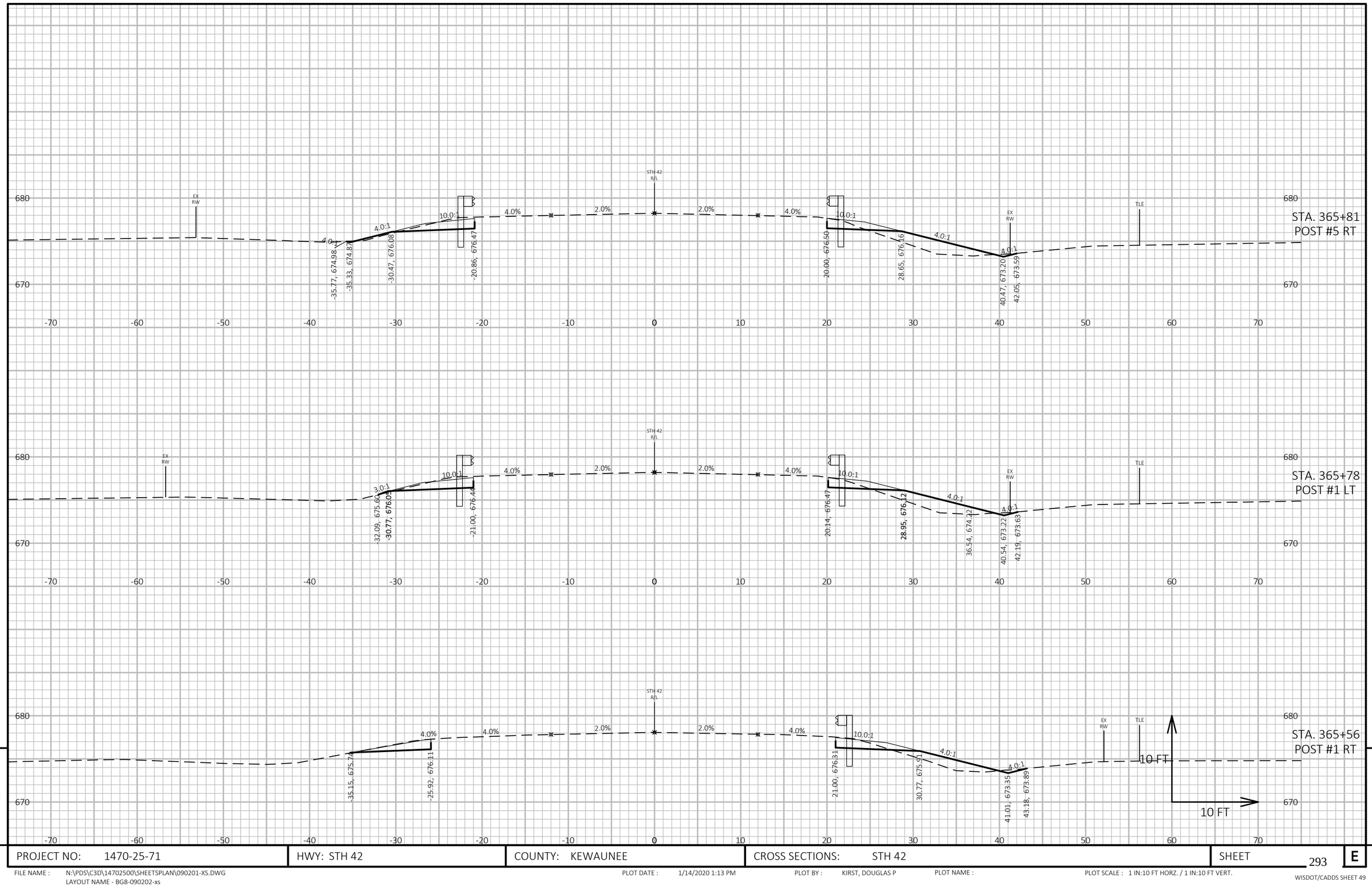
PLOT DATE : 1/14/2020 1:13 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 293	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090202-xs

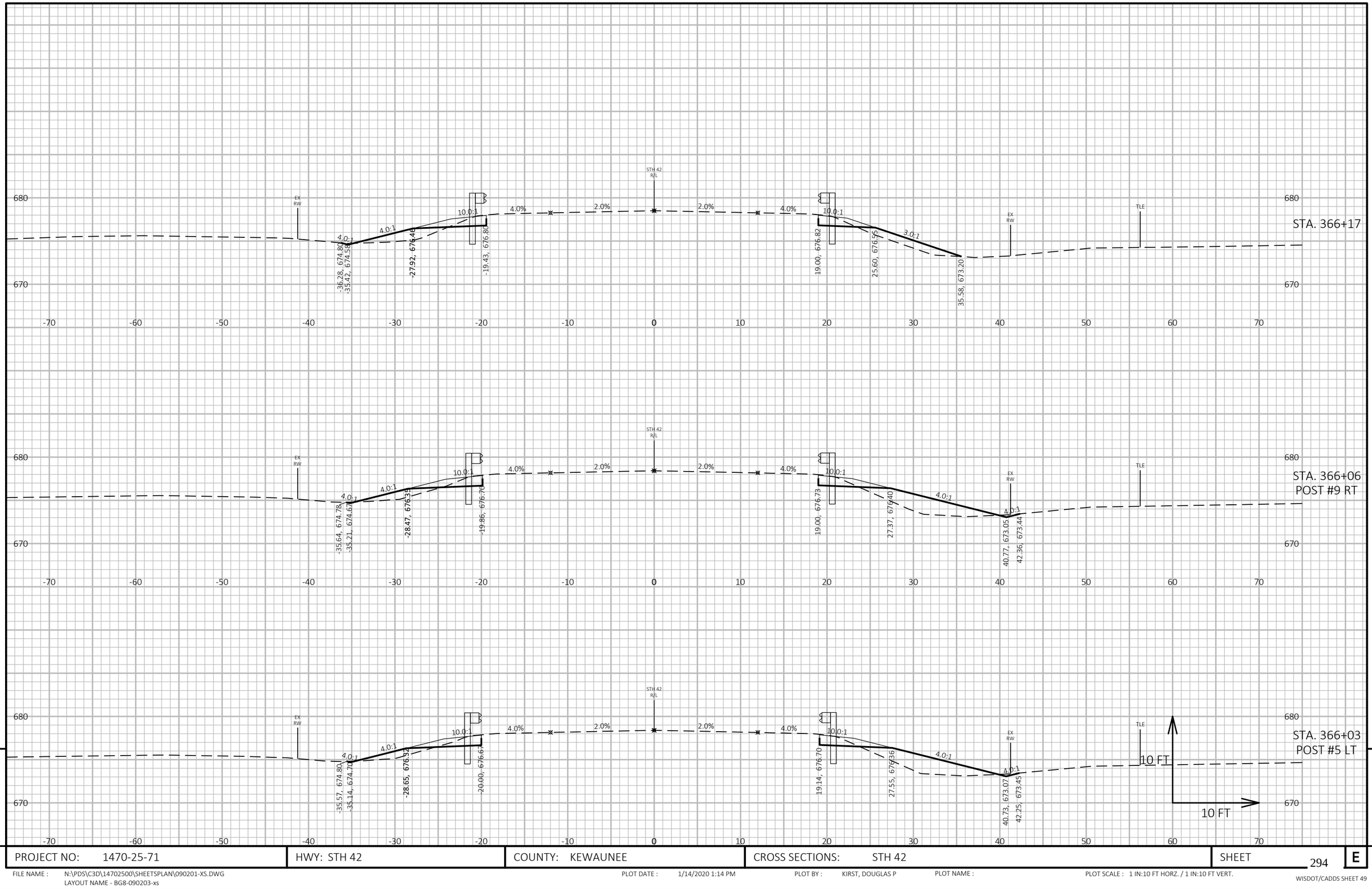
PLOT DATE : 1/14/2020 1:13 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 294	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090203-xs

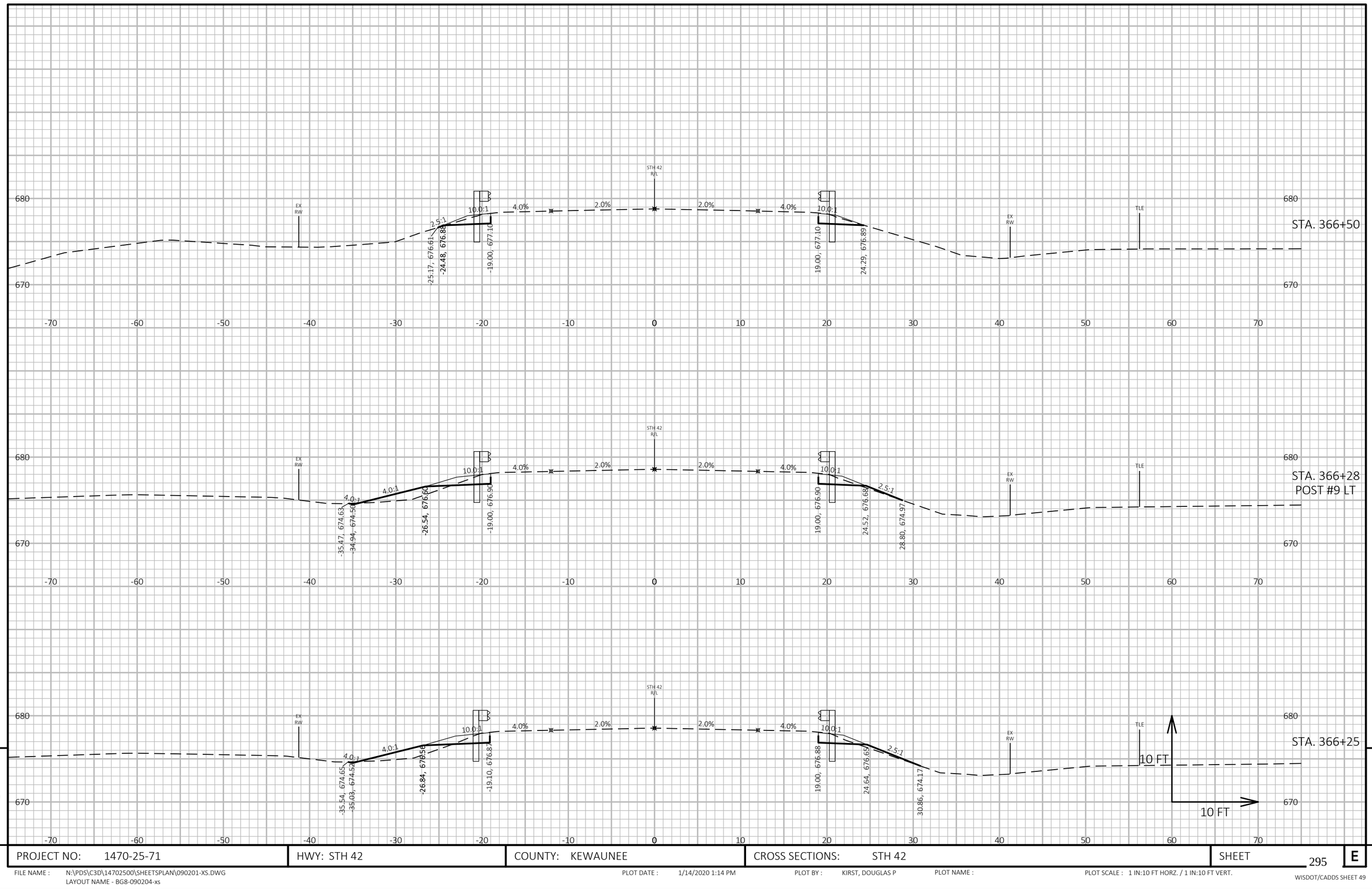
PLOT DATE : 1/14/2020 1:14 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 295	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090204-xs

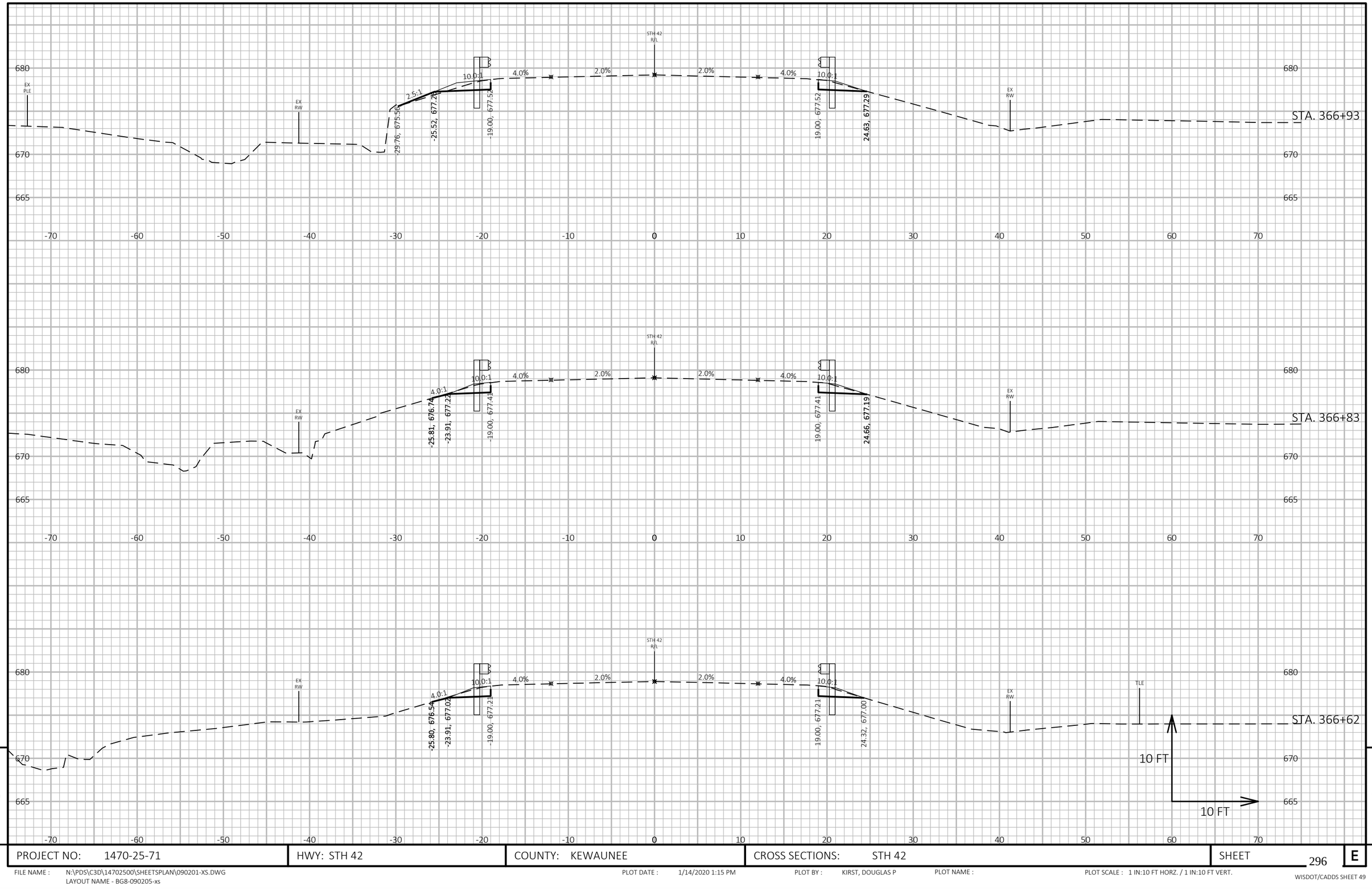
PLOT DATE : 1/14/2020 1:14 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 296	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090205-xs

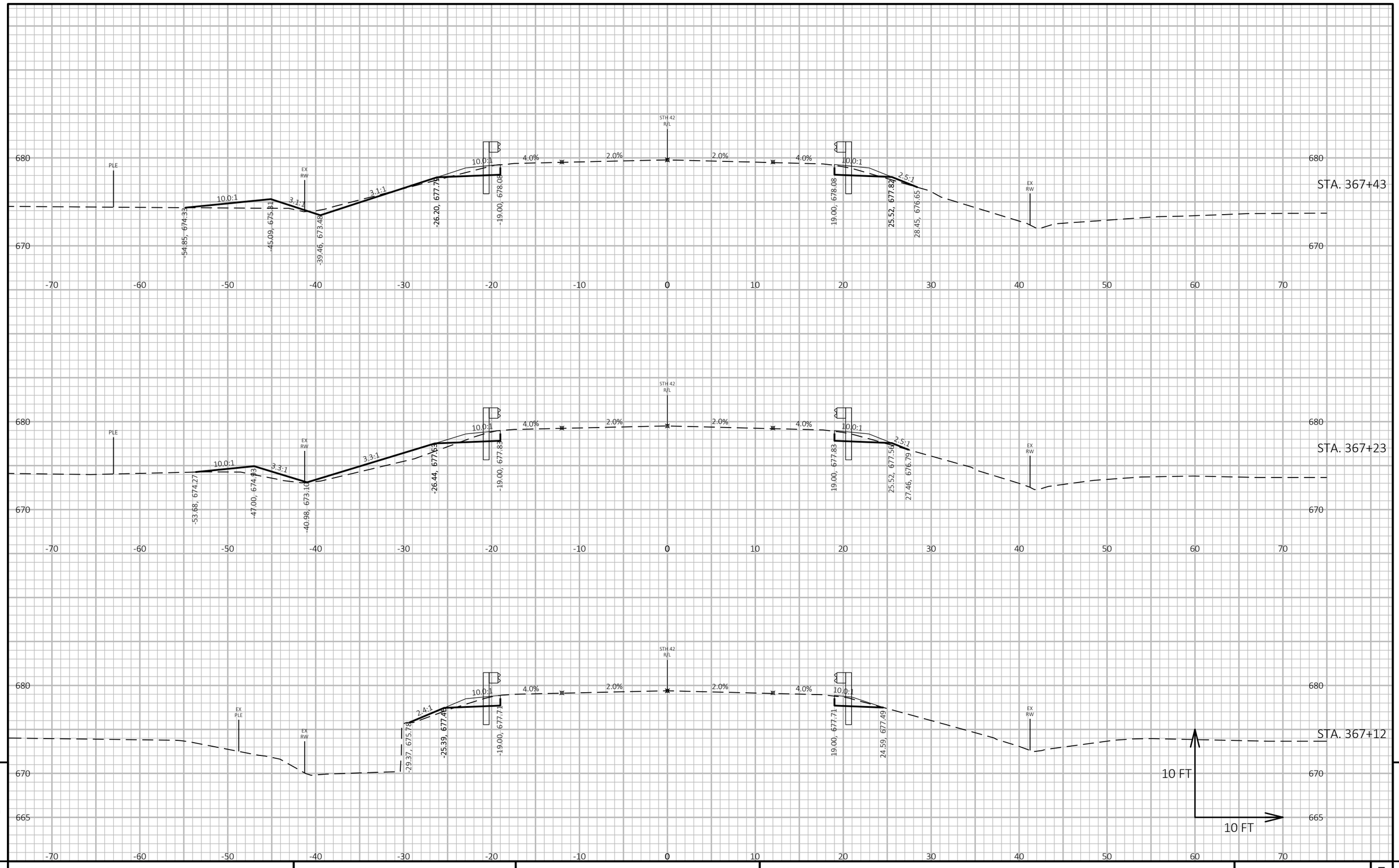
PLOT DATE : 1/14/2020 1:15 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

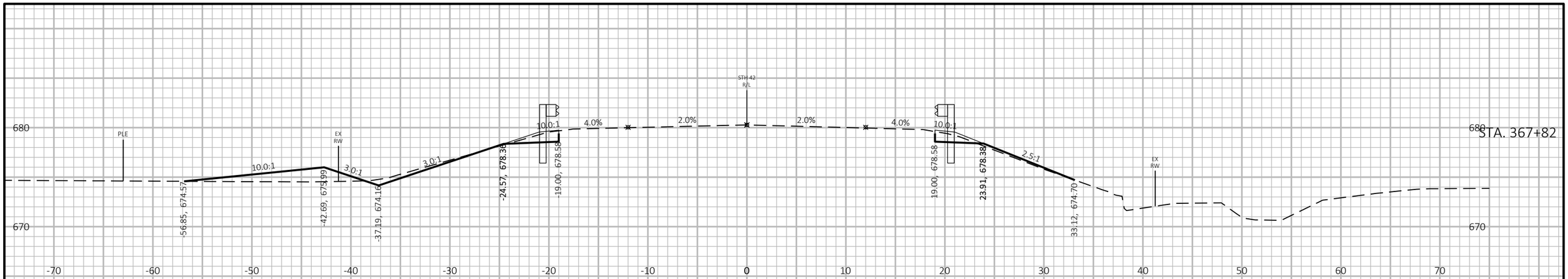
PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 297	E

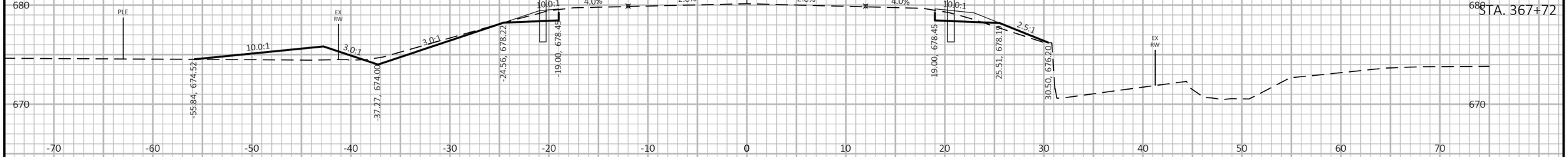
9

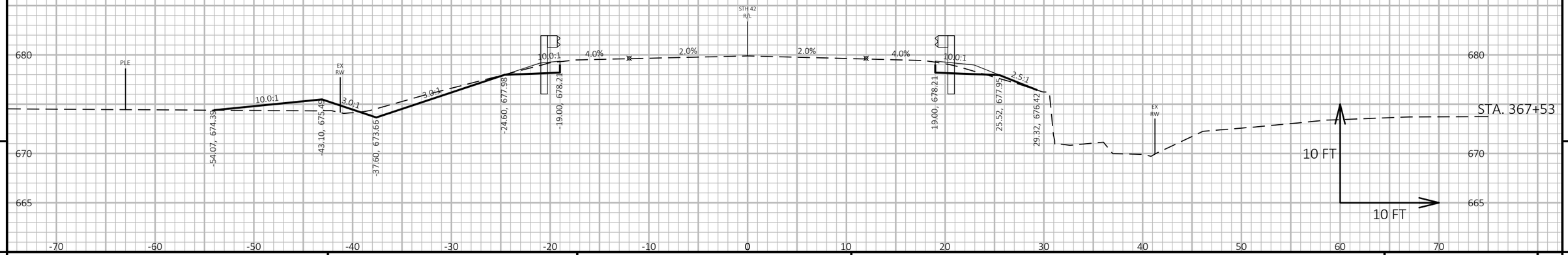
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090206-xs

PLOT DATE : 1/14/2020 1:15 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 298	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090207-xs

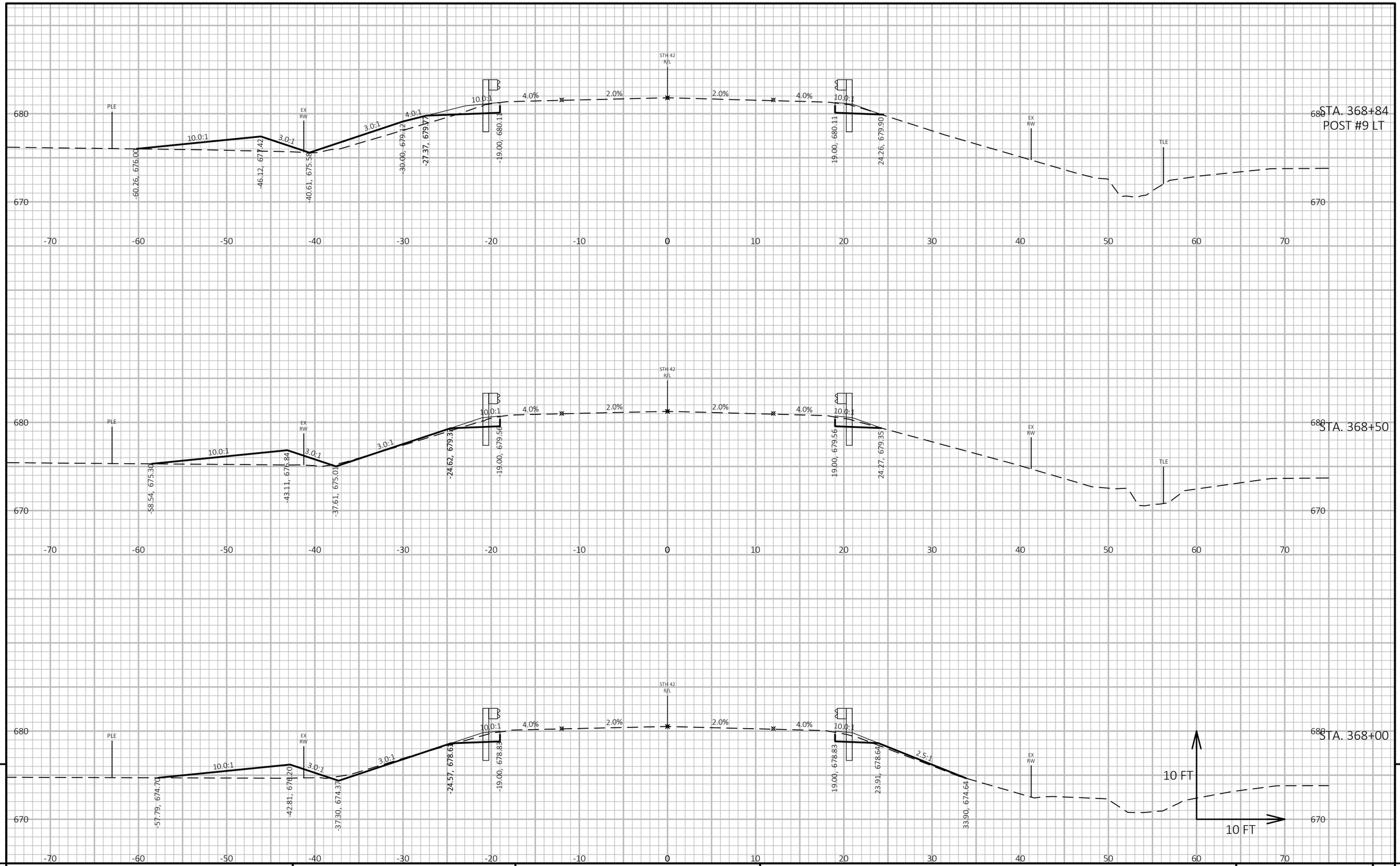
PLOT DATE : 1/14/2020 1:16 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 299	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090208-xs

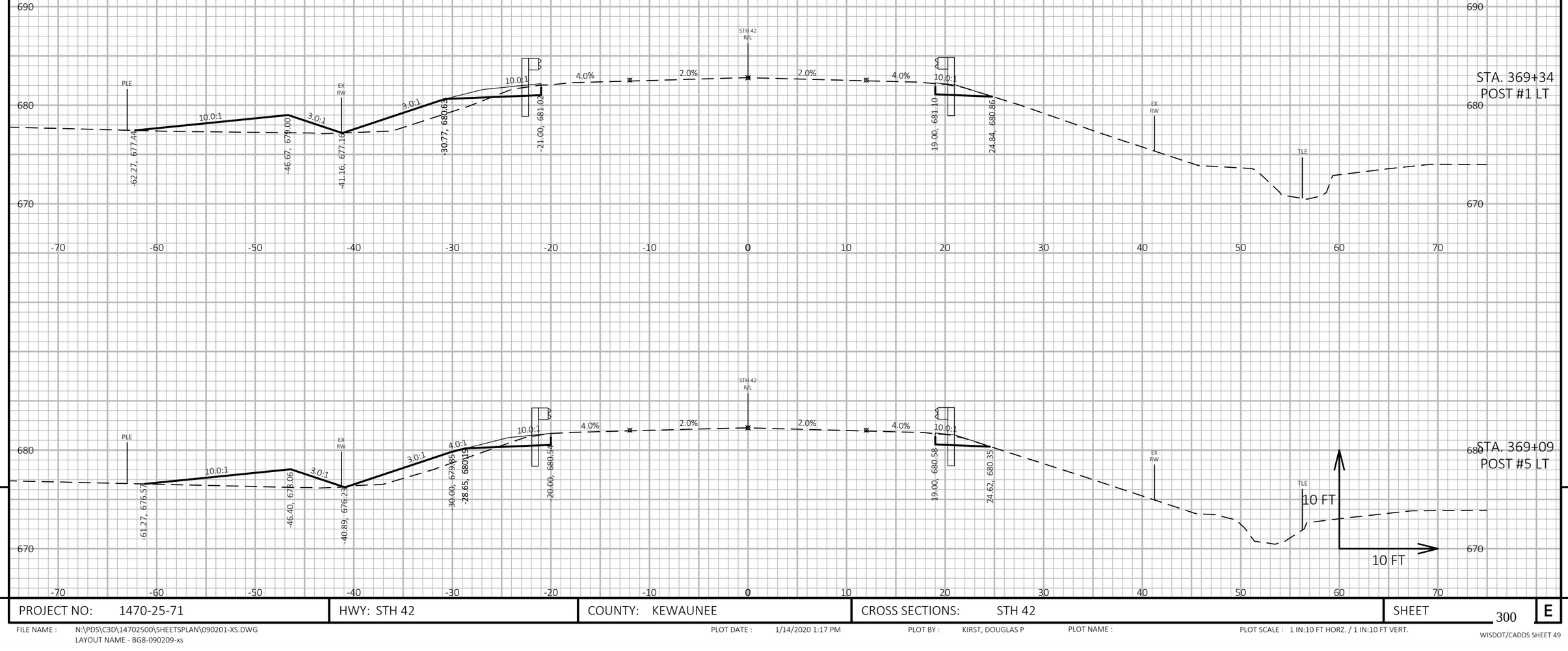
PLOT DATE : 1/14/2020 1:16 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

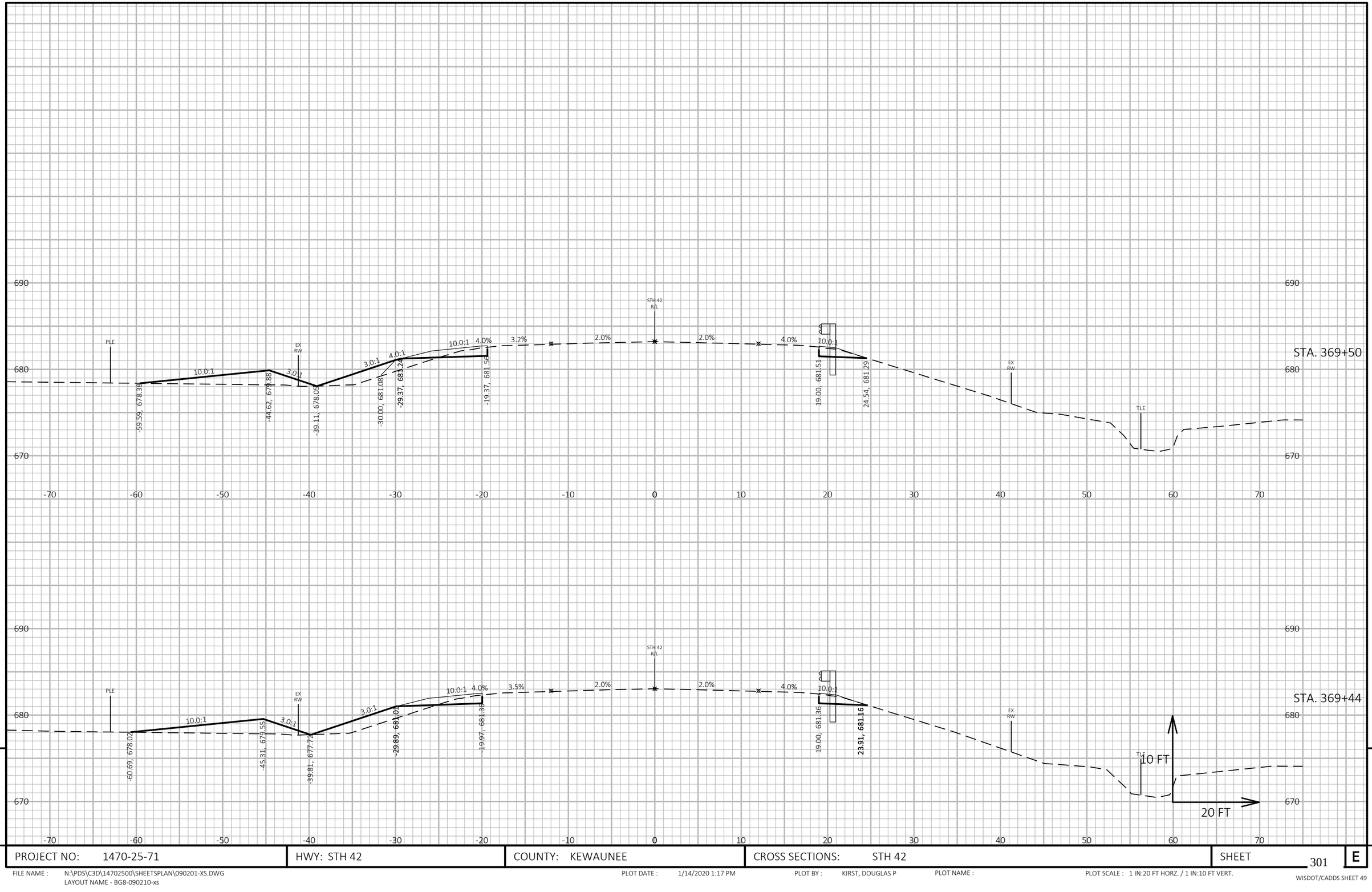


9 9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 300 E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090209-xs

PLOT DATE : 1/14/2020 1:17 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

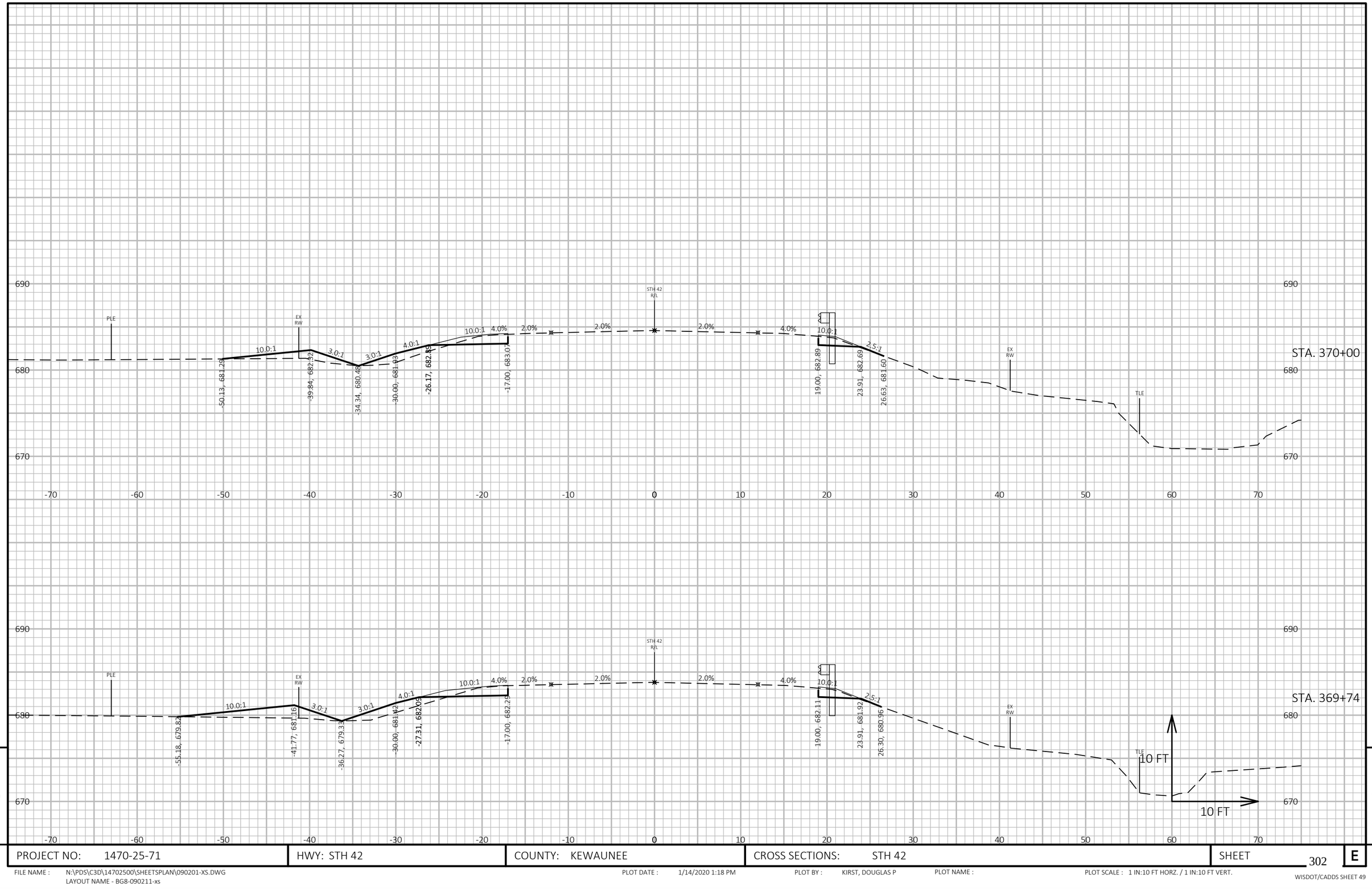


PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 301	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090210-xs

PLOT DATE : 1/14/2020 1:17 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 302	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090211-xs

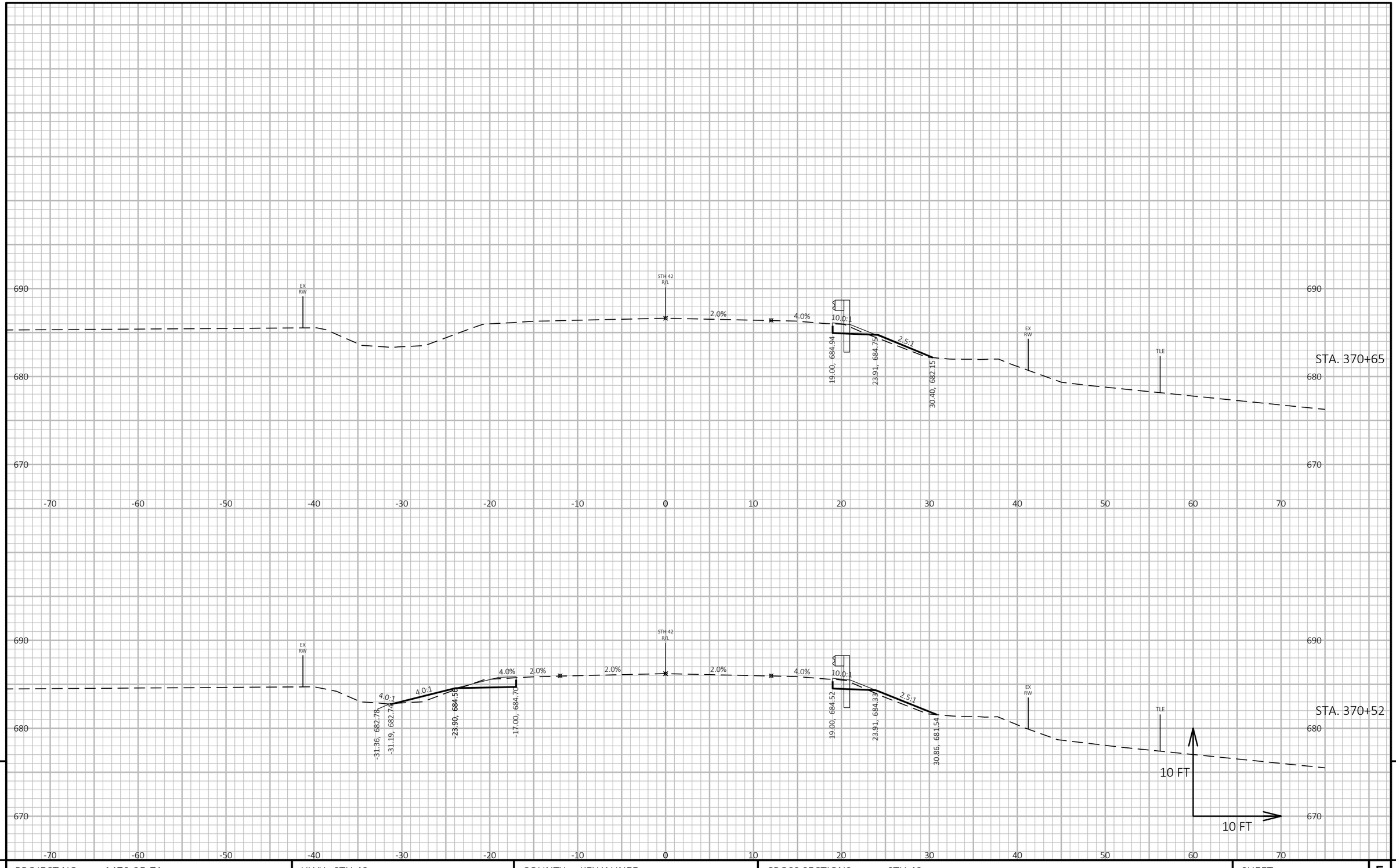
PLOT DATE : 1/14/2020 1:18 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 303	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090212-xs

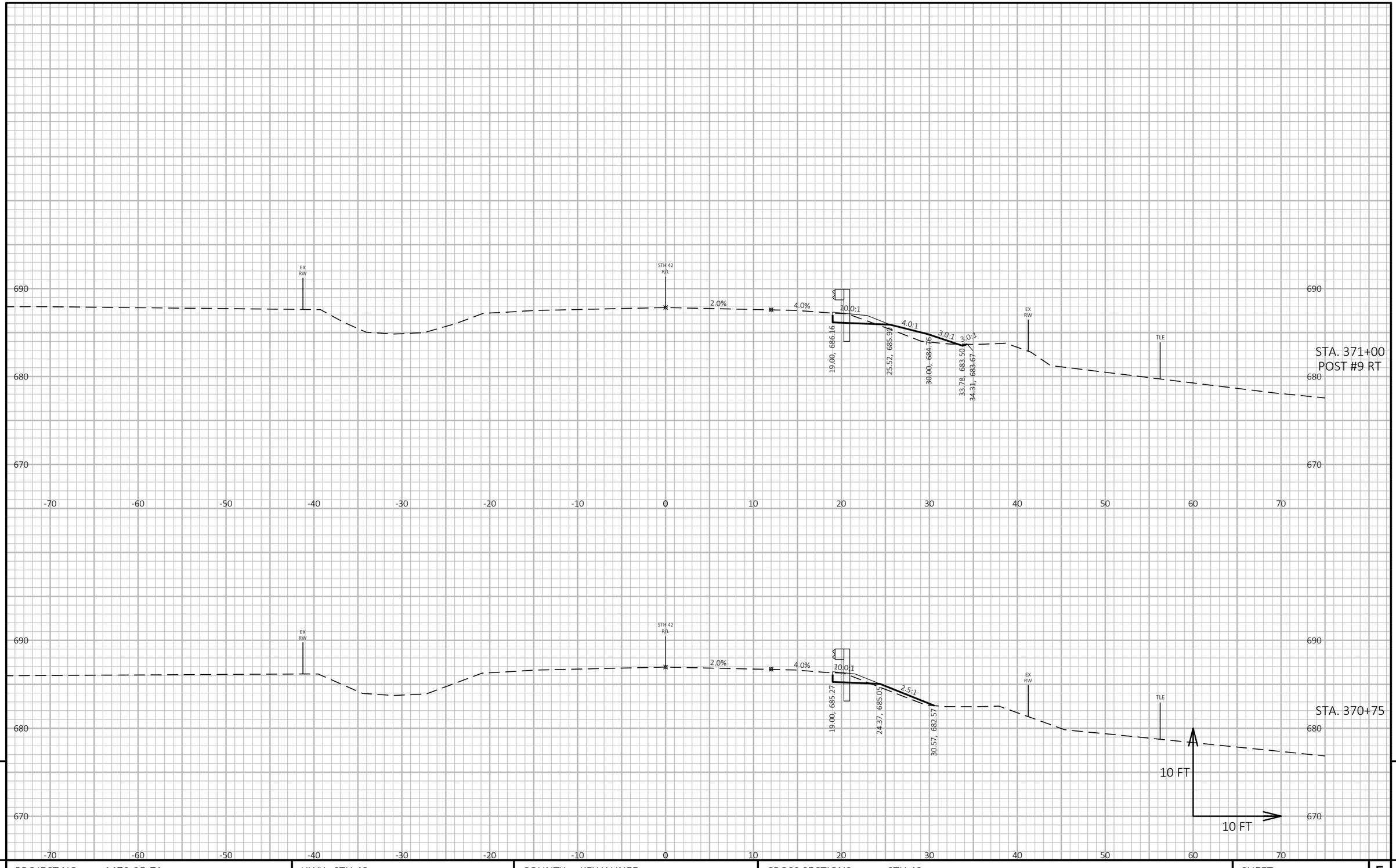
PLOT DATE : 1/14/2020 1:18 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 304	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090213-xs

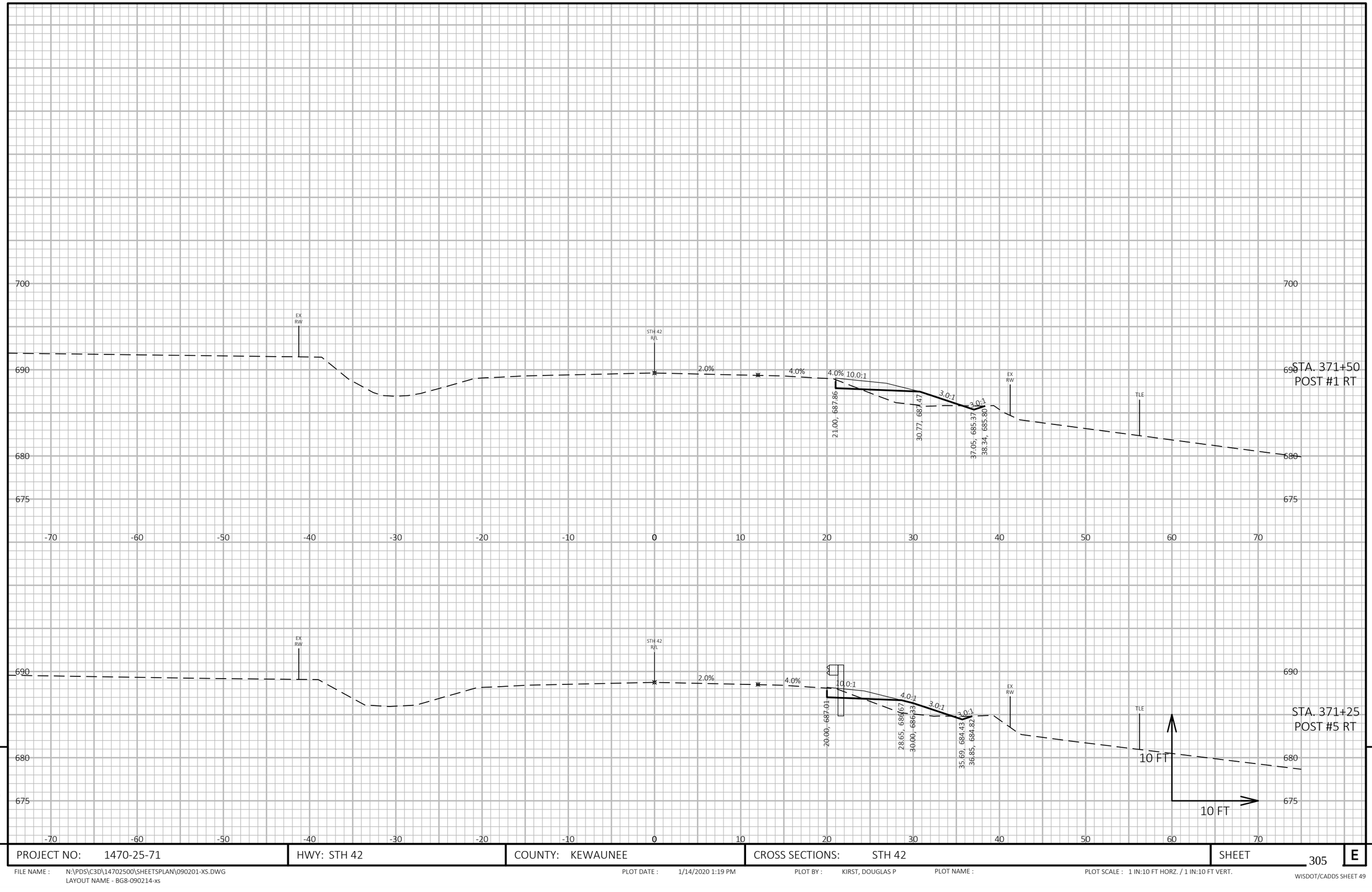
PLOT DATE : 1/14/2020 1:18 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 305 E

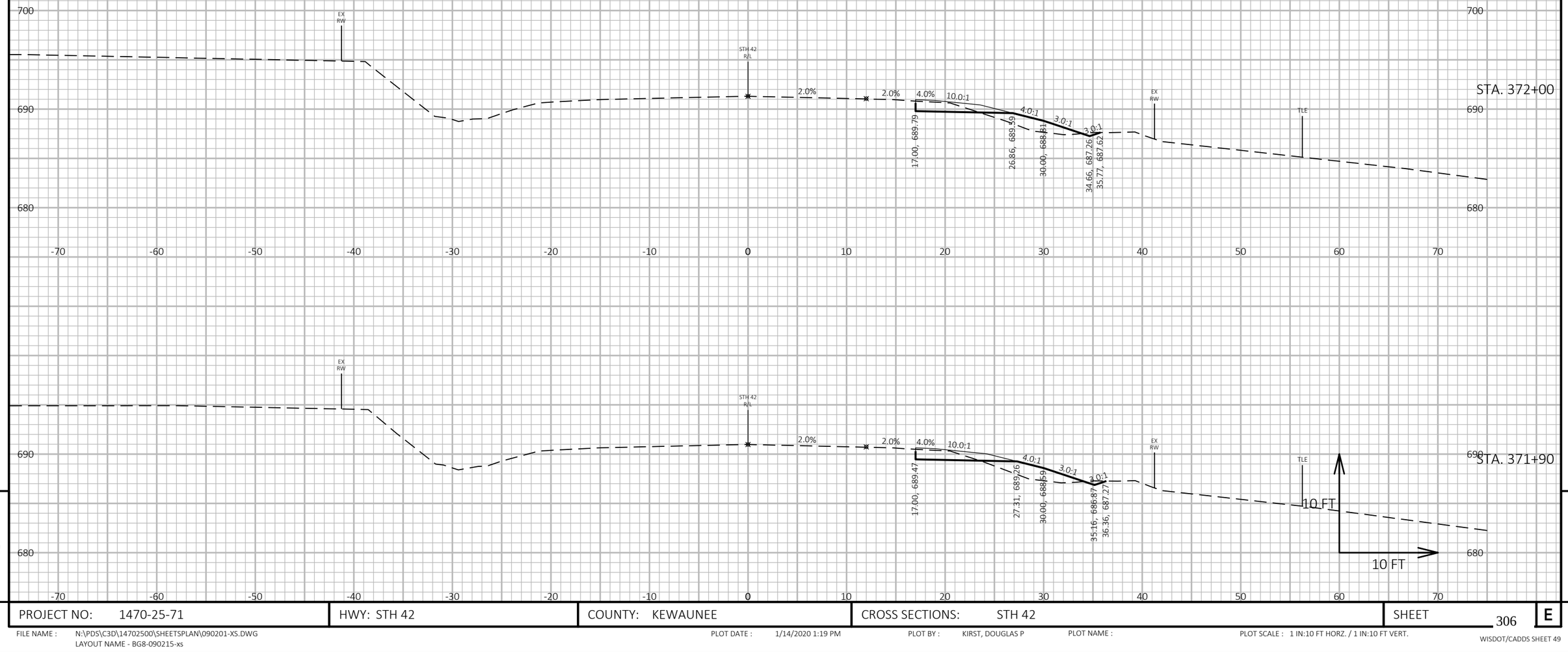
FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090214-xs

PLOT DATE : 1/14/2020 1:19 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 306	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090215-xs

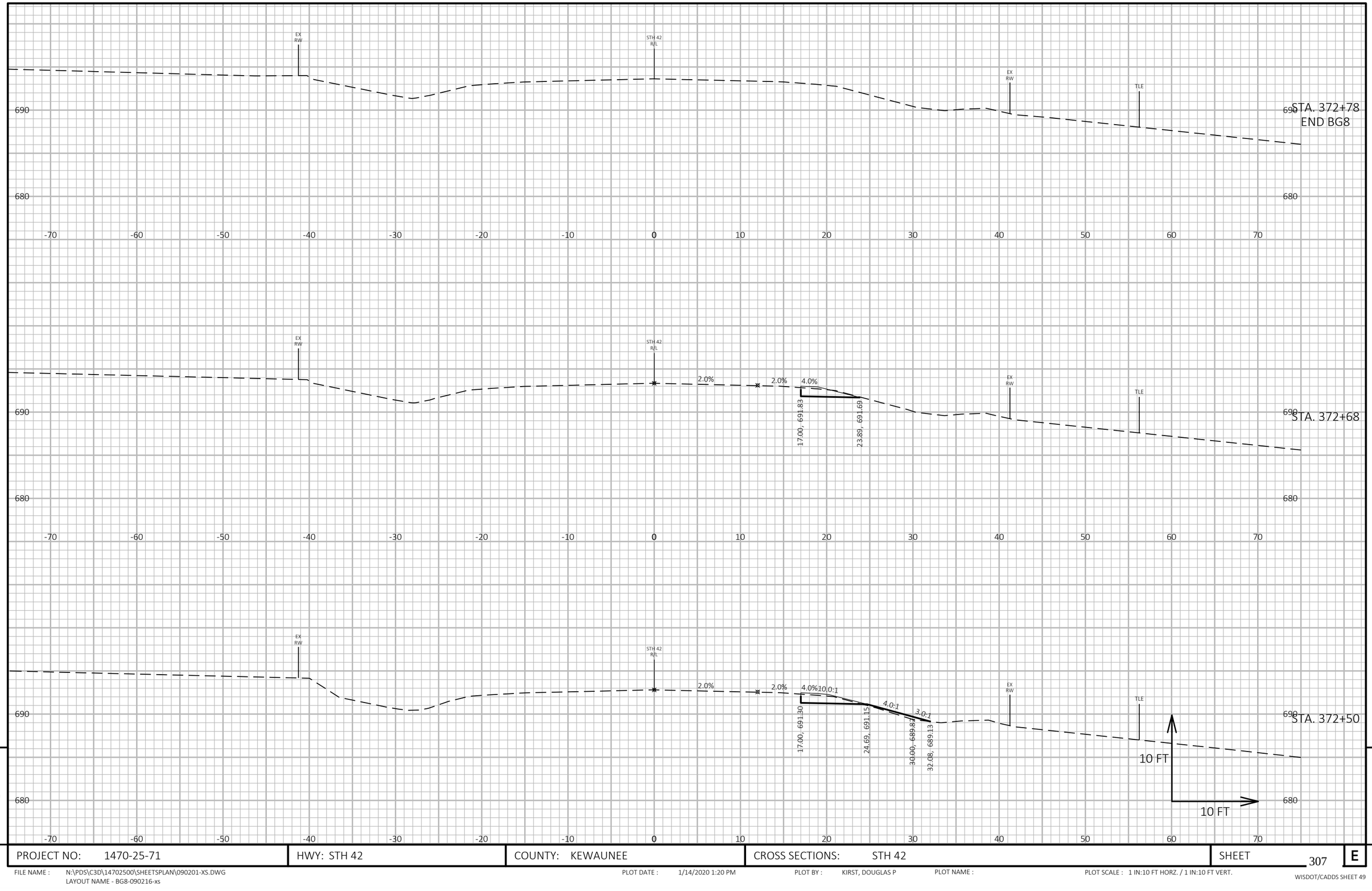
PLOT DATE : 1/14/2020 1:19 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 307	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - BG8-090216-xs

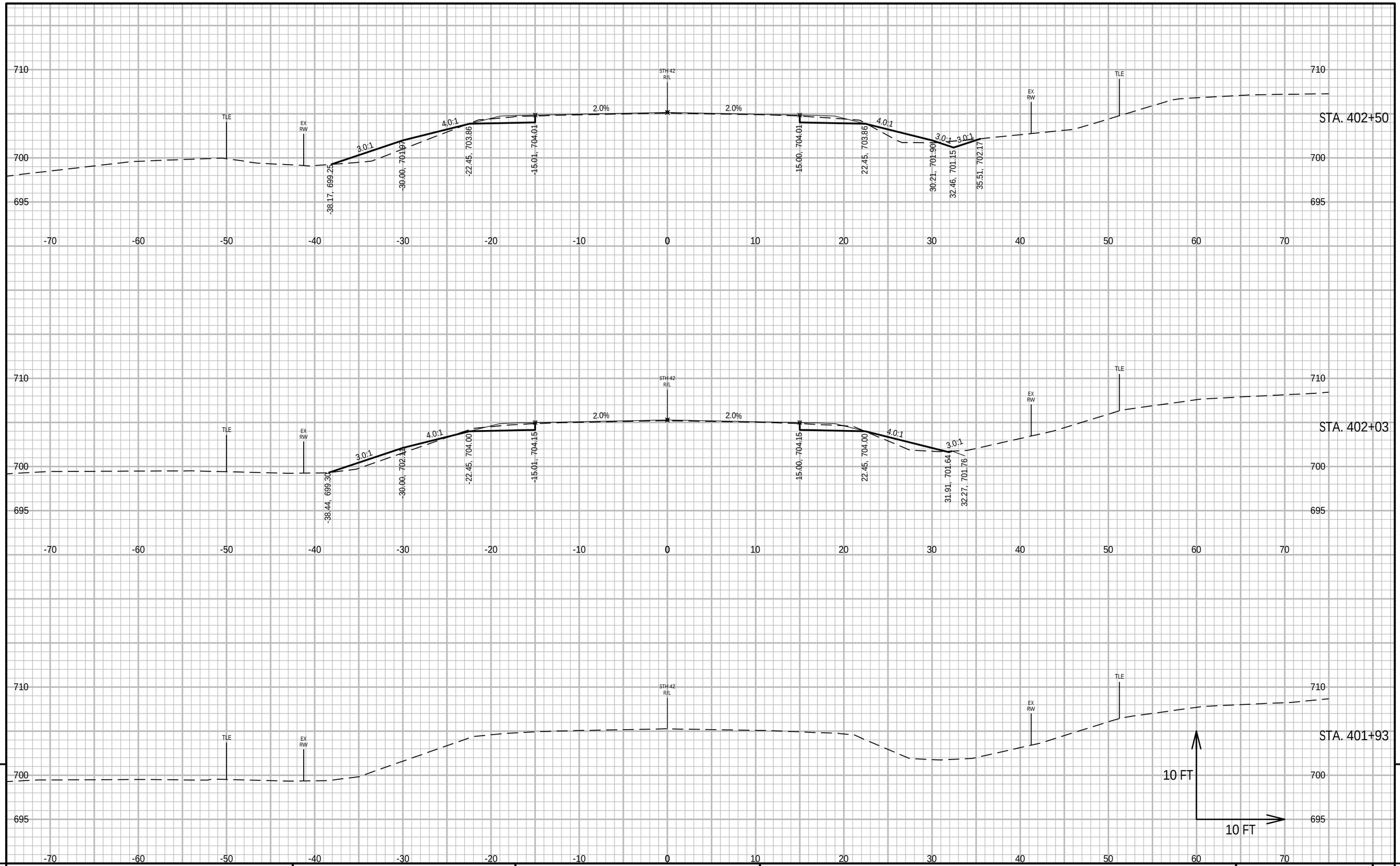
PLOT DATE : 1/14/2020 1:20 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 308	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - c56-090217-xs

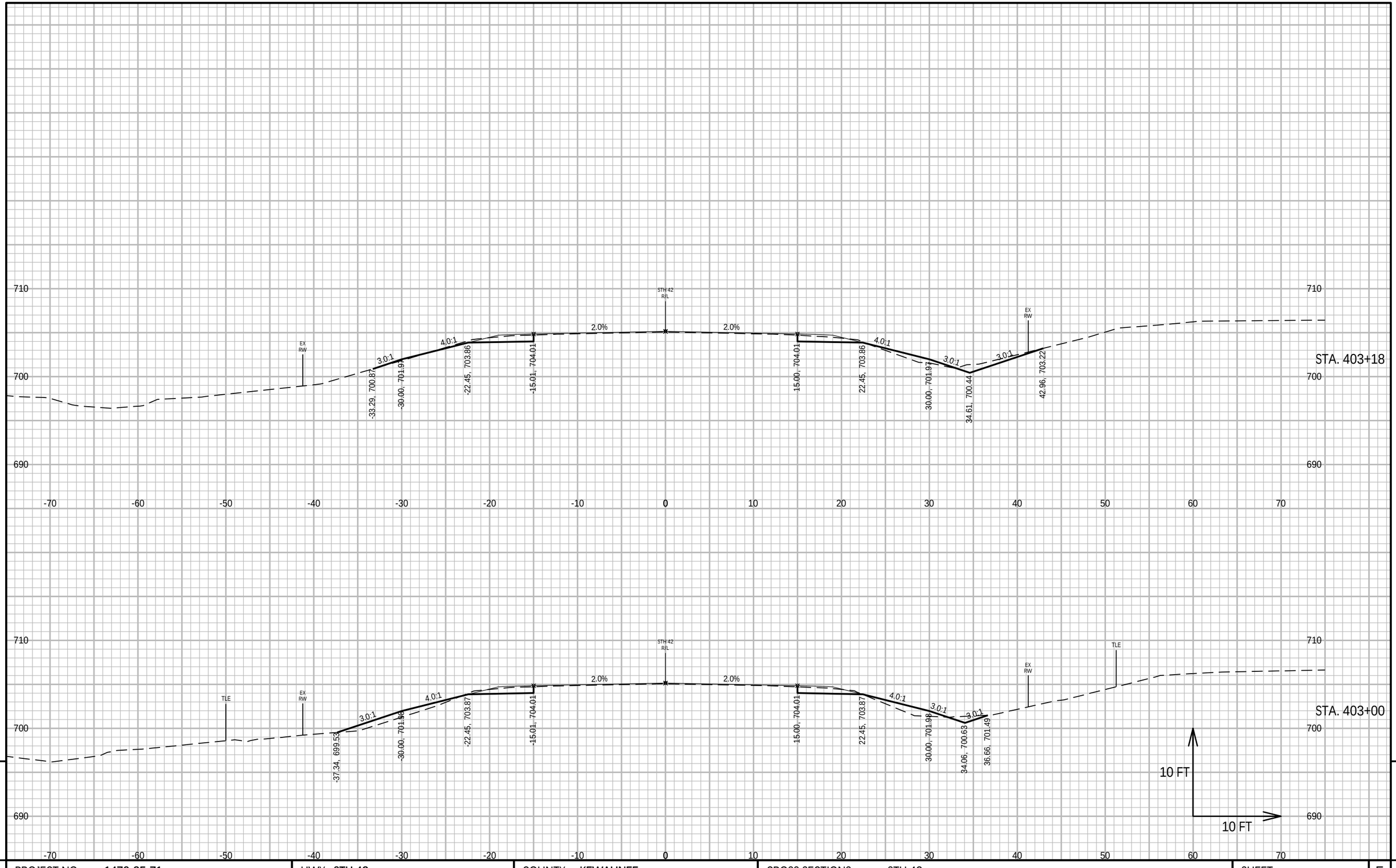
PLOT DATE : 1/7/2020 1:50 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 309	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - c56-090218-xs

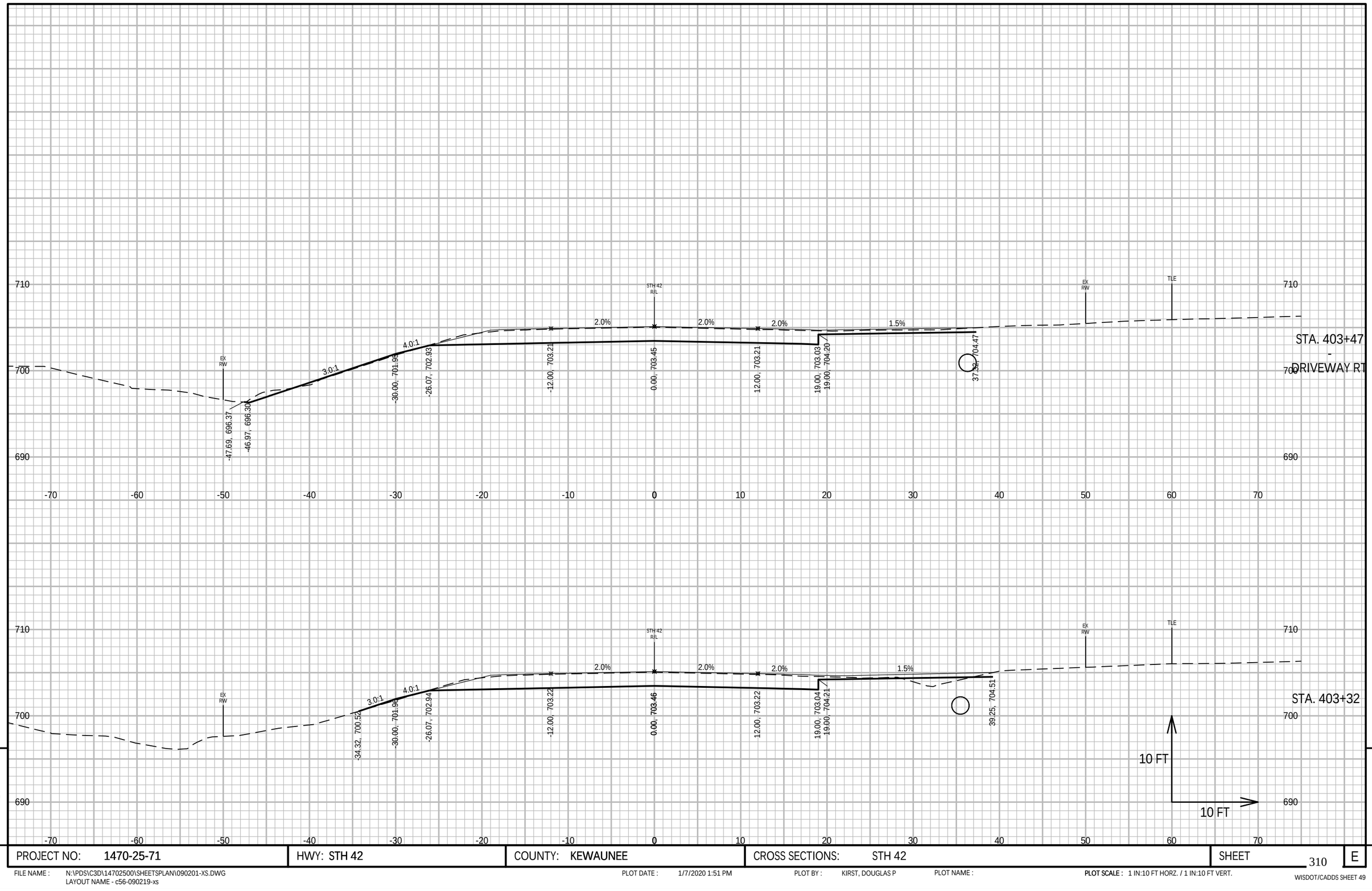
PLOT DATE : 1/7/2020 1:51 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 310 E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - c56-090219-xs

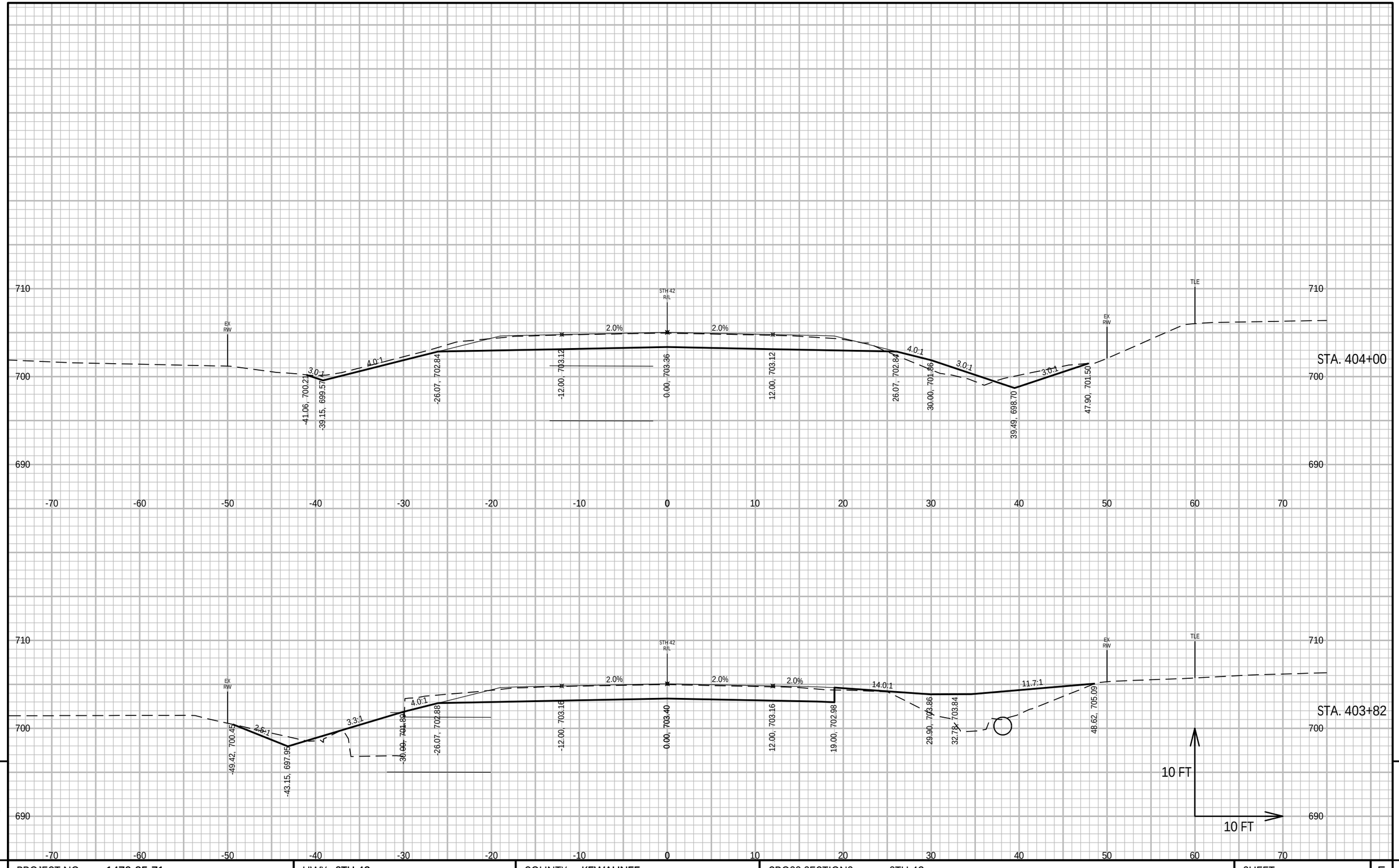
PLOT DATE : 1/7/2020 1:51 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 311	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - c56-090220-xs

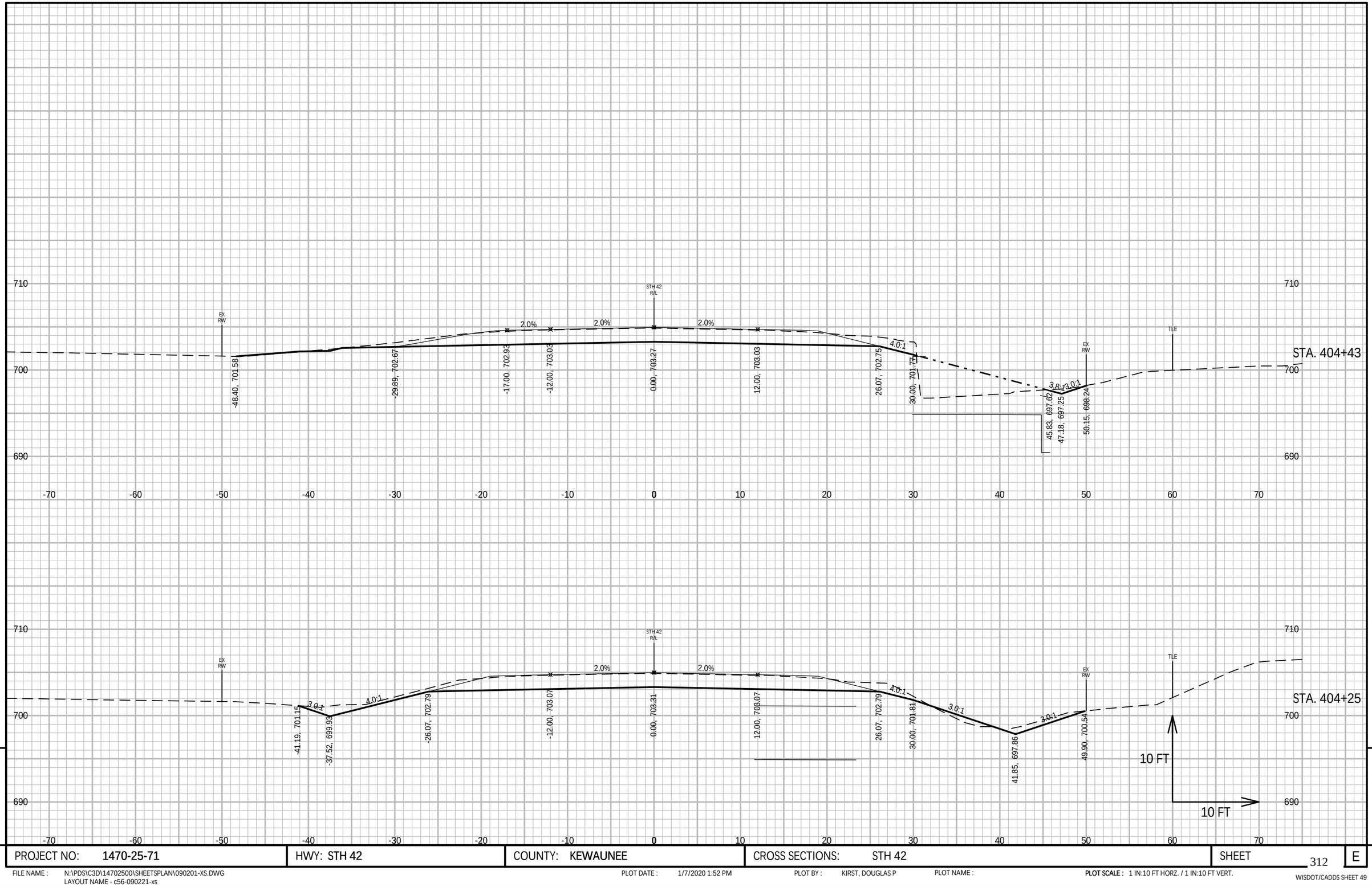
PLOT DATE : 1/7/2020 1:51 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

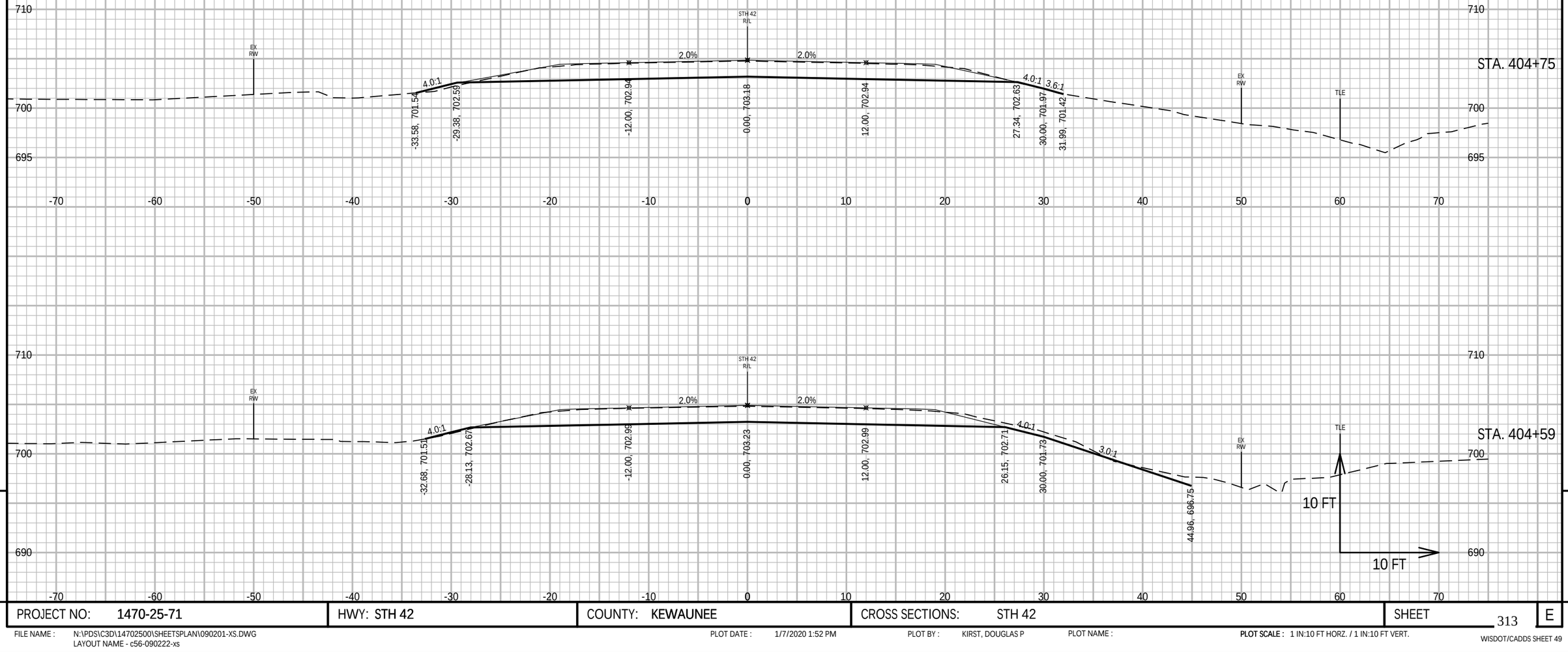


PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 312	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - c56-090221-xs

PLOT DATE : 1/7/2020 1:52 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 313	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - c56-090222-xs

PLOT DATE : 1/7/2020 1:52 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9

9

PROJECT NO: 1470-25-71	HWY: STH 42	COUNTY: KEWAUNEE	CROSS SECTIONS: STH 42	SHEET 314	E

FILE NAME : N:\PDS\C3D\14702500\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - c56-090223

PLOT DATE : 1/7/2020 1:52 PM

PLOT BY : KIRST, DOUGLAS P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov