WKE

PROJECT ID: 3846-02-71

COUNTY: WALWORTH

DECEMBER 2026

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 = 140



26

N

DESIGN DESIGNATION 3846-02-01

A.A.D.T.	2025	=	290
A.A.D.T.	2046	=	310
D.H.V.		=	25
D.D.		=	50/50
T.		=	30%
DESIGN SPEED		=	55 MPH
ESALS		=	490,000

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

T LINN, ZENDA RD

CTH B TO LINTON RD

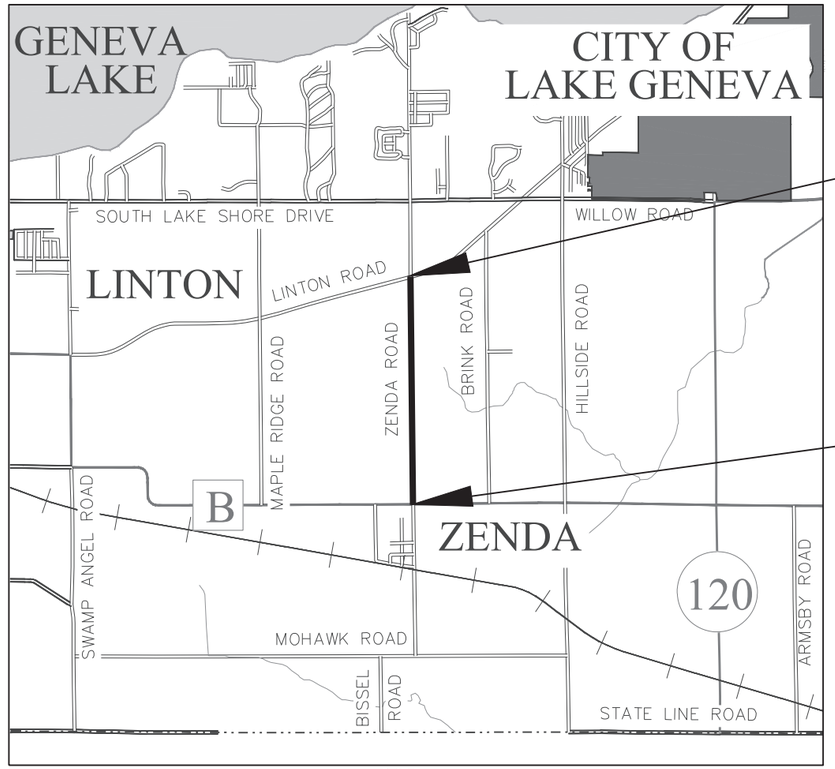
LOCAL STREET

WALWORTH COUNTY

STATE PROJECT NUMBER
3846-02-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3846-02-71	WISC 2027081	1

R-17-E



T-1-N

T-1-N

R-17-E

LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 1.496 MILES

END PROJECT
STA 179+93.48
Y=316658.034
X=779015.637

BEGIN PROJECT
STA 100+94.16
Y=308759.807
X=779100.631

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), WALWORTH COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18 FIXED

7/31/26 ACCEPTED FOR TOWN OF LINN
(Date) (TOWN CHAIRMAN)

ORIGINAL PLANS PREPARED BY
Batterman
engineers surveyors planners

WISCONSIN RYAN D. RUDZINSKI E-43310 ELKHORN WIS. PROFESSIONAL ENGINEER

DATE: 7/28/2026
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	RH BATTERMAN
Designer	RH BATTERMAN
Project Manager	JOSEPH JELACIC
Regional Examiner	SE REGION
Regional Supervisor	AMY TAETSCH

APPROVED FOR THE DEPARTMENT
DATE: 7/31/26
Joseph C Jelacic
Digitally signed by Joseph C Jelacic
DN: C=US, E=Joseph.Jelacic@dot.wi.gov, O=WisDOT, OU=DTSD LPPM, CN=Joseph C Jelacic
Date: 2026.07.31 20:50:26-05'00'
(Signature)

E

UTILITIES CONTACTS

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ELECTRIC
AUSTIN KROHN
400 KOOPMAN LANE
ELKHORN, WI 53121
PHONE: 262-741-0905
EMAIL: austinkrohn@alliantenergy.com

AMERICAN TRANSMISSION COMPANY (ATC)
ELECTRIC
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AT&T
TELEPHONE
MATT KINAS
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MADISON, WI 53704
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BLUEBIRD FIBER
FIBER OPTICS
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EMAIL: abby.beattie@bluebirdfiber.com

FRONTIER
FIBER OPTICS
THOMAS REKOWSKI
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PLYMOUTH, WI 53073
PHONE: 608-844-0980
EMAIL: thomas.rekowski@verizon.com

SPECTRUM
FIBER OPTICS
DOMINIC KATCHA
1348 PLAINFIELD AVENUE
JANESVILLE, WI 53547
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WE ENERGIES
GAS
SCOTT HOLSTEIN
700 S. KANE STREET
BURLINGTON, WI 53105
PHONE: 262-949-0490
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DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

WISCONSIN DNR LIAISON

CRAIG WEBSTER
SOUTHEAST REGION
141 NW BARSTOW, ROOM 180
WAUKESHA, WI 53187
PHONE: 414-303-3011
EMAIL: craig.webster@wisconsin.gov

WISDOT LOCAL PROGRAM PM

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S.E. REGION WISDOT
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WAUKESHA, WI 53188
PHONE: 262-548-6762
EMAIL: joseph.jelacic@dot.wi.gov

ADMINISTRATOR

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PHONE: 262-275-6300
EMAIL: dzimmerman@townoflinn.wi.gov

DESIGN PROJECT LEADER

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ELKHORN, WI 53121
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EMAIL: rrudzinski@rhbatterman.com

WISCONSIN DEPARTMENT OF TRANSPORTATION GEODIC SERVICES

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3728 FRANKLIN STREET
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SOUTHEAST WISCONSIN REGIONAL PLANNING COMMISSION

ANDREW TRAEGER
CONSTRUCTION COORDINATOR
W239N1812 ROCKWOOD DRIVE
WAUKESHA, WI 53187
PHONE: 262-953-4296
EMAIL: atraeger@sewrpc.org

ROB MERRY
CHIEF SURVEYOR
W239N1812 ROCKWOOD DRIVE
WAUKESHA, WI 53187
PHONE: 262-953-4296
EMAIL: rmerry@sewrpc.org

GENERAL NOTES

1. HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN. APPLY TACK COAT AT A RATE OF 0.07 GAL/SY TO MILLED PAVEMENT SURFACES AND 0.05 GAL/SY BETWEEN LAYERS OF HMA PAVEMENT.
2. CONTACT SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION (SEWRPC) AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.
3. TOPSOIL SHALL BE PLACED 1-INCH BELOW THE TOP OF ADJACENT CONCRETE CURBS OR SIDEWALKS.
4. RADIUS DIMENSIONS FOR THE CURB AND GUTTER ARE TO THE FLANGE LINE UNLESS OTHERWISE NOTED.
5. CURB AND GUTTER PLAN GRADES ARE AT THE FLANGE LINE UNLESS OTHERWISE NOTED.
6. SAWCUTS, AS SHOWN ON THE PLANS, ARE SUGGESTED LOCATIONS AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER TO BETTER SUIT FIELD CONDITIONS.
7. MAINTAIN ACCESS TO ALL DRIVEWAYS AND FIELD ENTRANCES AT ALL TIMES EXCEPT WHEN PAVING OR PIPE LAYING OPERATIONS REQUIRE THE DRIVEWAY TO BE CLOSED. RE-ESTABLISHED IMMEDIATELY AFTER OPERATIONS ARE COMPLETED. ACCESS TO BE PROVIDED DURING ALL NON-WORKING HOURS.
8. PRIOR TO ORDERING DRAINAGE PIPES, CONTRACTOR TO FIELD VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN WITH THE ENGINEER.
9. CULVERT PIPE AND CULVERT ENDWALL LOCATIONS ARE MARKED ON THE PLANS WITH A STATION AND OFFSET TO THE END OF PIPE, WHERE IT MEETS THE ENDWALL, UNLESS OTHERWISE NOTED IN THE PLANS.
10. CULVERT ENDWALLS SHALL BE LAID AT THE SAME SLOPE AS THE CONNECTING PIPE.

EROSION CONTROL GENERAL NOTES

1. ALL DISTURBED, GRADED, OR SOIL STOCKPILE AREAS SHALL BE PERMANENTLY RESTORED WITHIN FOURTEEN (14) CALENDAR DAYS OF ANY CONTRACTOR DISTURBANCE. IF ANY DISTURBED, GRADED, OR SOIL STOCKPILE AREAS (INCLUDING INTERSECTION/TURN LANES AND ALL NEWLY GRADED/FILLED AREAS) WILL NOT BE PERMANENTLY RESTORED WITHIN FOURTEEN (14) CALENDAR DAYS, THEY SHALL RECEIVE TEMPORARY SEED AND MULCH WITHIN FOUR (4) CALENDAR DAYS OF INITIAL DISTURBANCE.
2. STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILE SOIL SHALL BE PROTECTED AGAINST EROSION.
3. THE LOCATION AND TYPE OF EROSION CONTROL ITEMS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL ITEMS SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE ITEM IS NO LONGER REQUIRED.

UTILITY NOTES

1. ONLY UTILITY LINES MARKED BY DIGGERS HOTLINE ARE SHOWN. THE UTILITY IS RESPONSIBLE FOR DETERMINING CONFLICTS OF THEIR FACILITIES, ESPECIALLY THOSE THAT WERE NOT MARKED.
2. THE CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENTS WITH THE APPROPRIATE UTILITY, IF REQUIRED.

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			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 STRIPTURF:	.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 SLOPETURF:			.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 = 12.0 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 5.50 ACRES

ORDER OF SECTION 2 DETAIL SHEETS

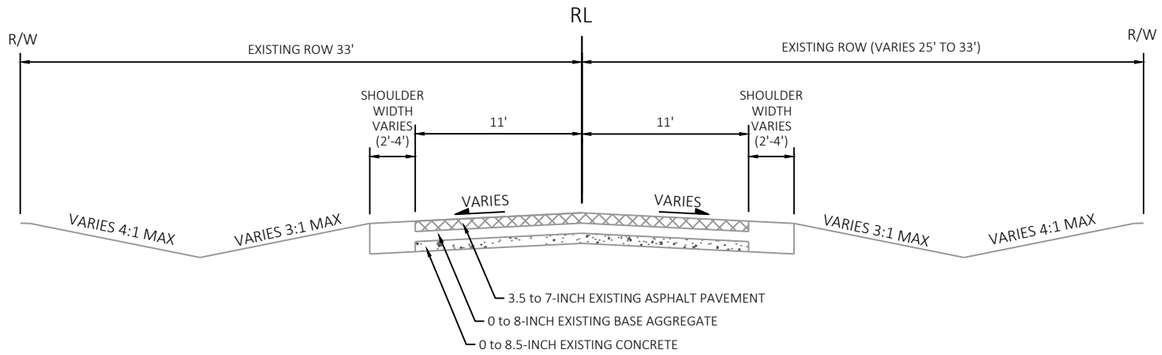
GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
STORM SEWER PLAN
PERMANENT SIGNING & PAVEMENT MARKING
DETOURS
ALIGNMENT
CONTROL POINTS & BORINGS



2

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : C:\USERS\SBULLOCK\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-020201-PO.DWG
LAYOUT NAME - Plan 1 IN 1000 FT
PLOT DATE : 7/31/2026 2:54 PM
PLOT BY : STEVEN BULLOCK
PLOT NAME :
PLOT SCALE : 1 IN:1000 FT
WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION

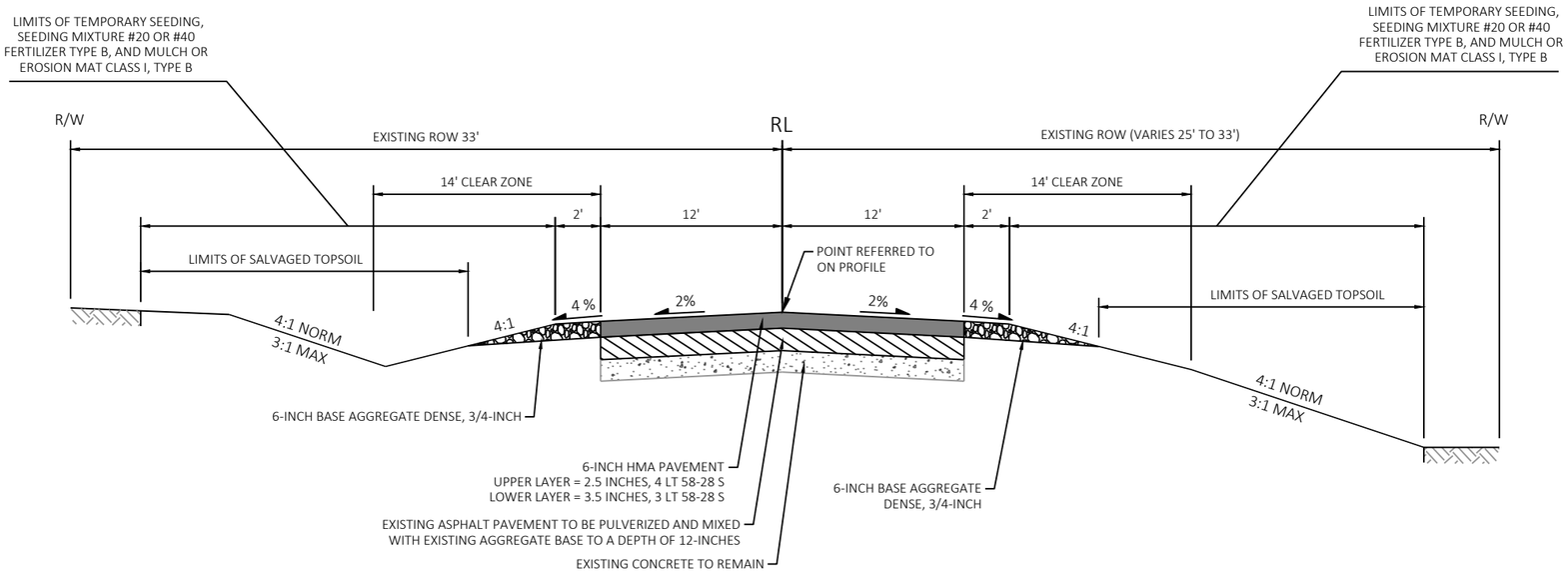
ZENDA ROAD
STA 100+94.16 - 179+93.48

PAVEMENT BORING TABLE

BORING	STATION	OFFSET	ASPHALT THICKNESS IN INCHES	AGGREGATE THICKNESS IN INCHES	CONCRETE THICKNESS IN INCHES
B-1	178+04	8.2 LT	7	8	0
B-2	173+05	6.6 RT	3.5	8	7
B-3	167+95	8.6 LT	6	3	5
B-4	162+91	4.0 RT	7	1	7
B-5	157+89	7.5 LT	5.5	6	6
B-6	152+90	6.5 RT	6	6	0
B-7	147+84	7.3 LT	6	5	5.5
B-8	142+89	7.7 RT	5	4.5	6.5
B-9	137+87	7.0 LT	5.5	7	0
B-10	132+29	8.1 RT	5	4.5	6.5
B-11	127+80	6.9 LT	4	0	0
B-12	122+78	7.9 RT	5	4	7
B-13	117+17	6.9 LT	6	6	0
B-14	113+07	6.5 RT	6	3	6
B-15	107+82	5.8 LT	5	2	5
B-16	102+63	8.3 RT	5.25	6	8.5

FILE NAME : C:\USERS\SBULLOCK\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-020301-TS.DWG
LAYOUT NAME - 01-10ft
PLOT DATE : 7/31/2026 3:18 PM PLOT BY : STEVEN BULLOCK PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

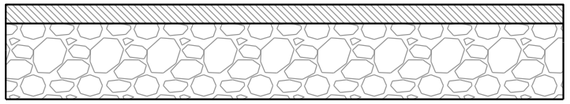
2



PROPOSED TYPICAL SECTION

ZENDA ROAD
STA 100+94.16 - 179+93.48

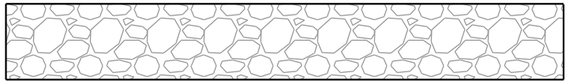
PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	TYPICAL SECTIONS	SHEET 5	E



4" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

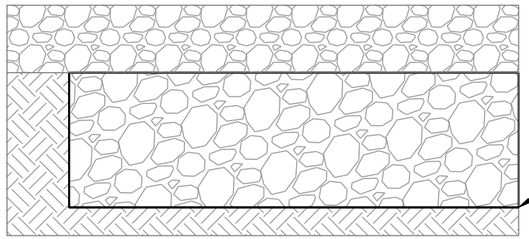
EXISTING BASE AGGREGATE TO REMAIN

BITUMINOUS DRIVEWAY SECTION



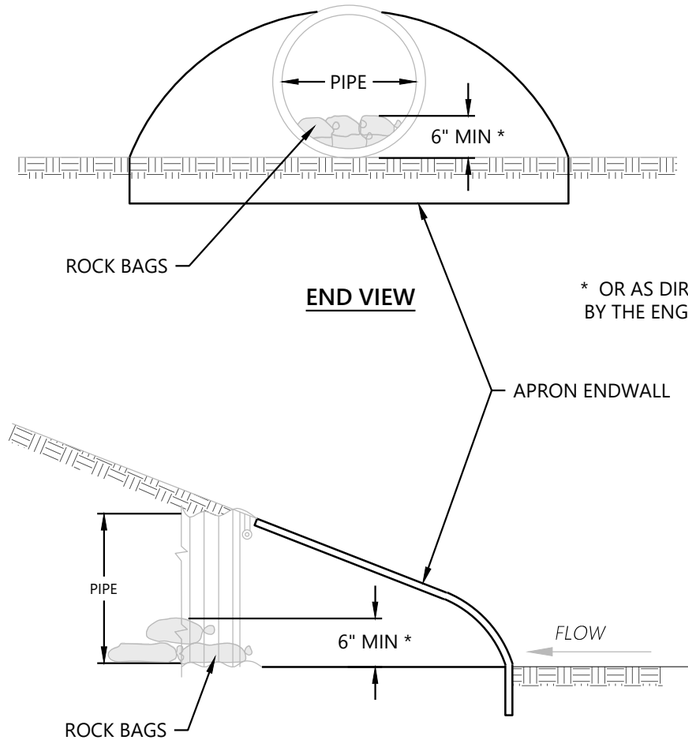
12" BASE AGGREGATE DENSE 1-1/4 INCH

AGGREGATE DRIVEWAY SECTION



*DEPTH OF UNDERCUT SHALL BE 1 FOOT MINIMUM OR AS DIRECTED BY ENGINEER
** USE OF GEOGRID SHALL BE APPROVED BY ENGINEER

UNDERCUT SECTION



END VIEW

* OR AS DIRECTED BY THE ENGINEER

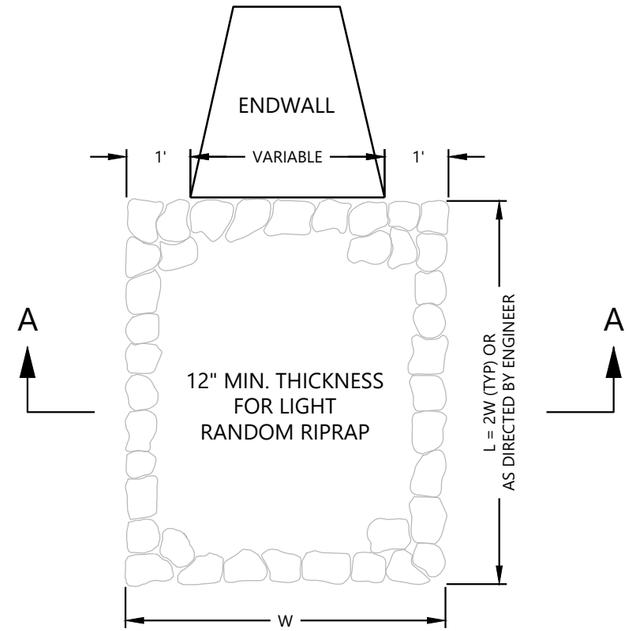
SIDE VIEW

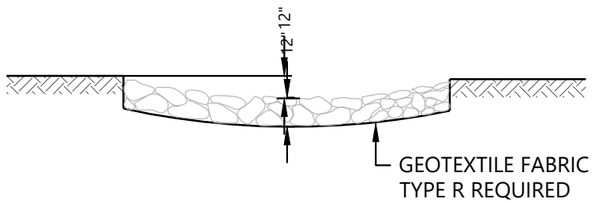
APPROXIMATE NUMBER OF ROCK BAGS REQUIRED BY PIPE SIZE

PIPE SIZE (IN)	ROCK BAGS (EACH)
12	1
15	1
18	1
24	2
30	2
36	3
42	5
48	6
54	8
19x30	2
24x38	2
34x53	3

BASED ON A BAG SIZE OF 18"x12"x6"

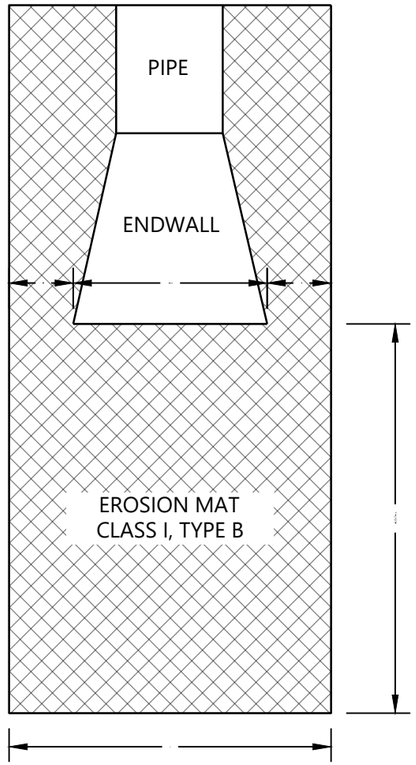
CULVERT PIPE CHECK





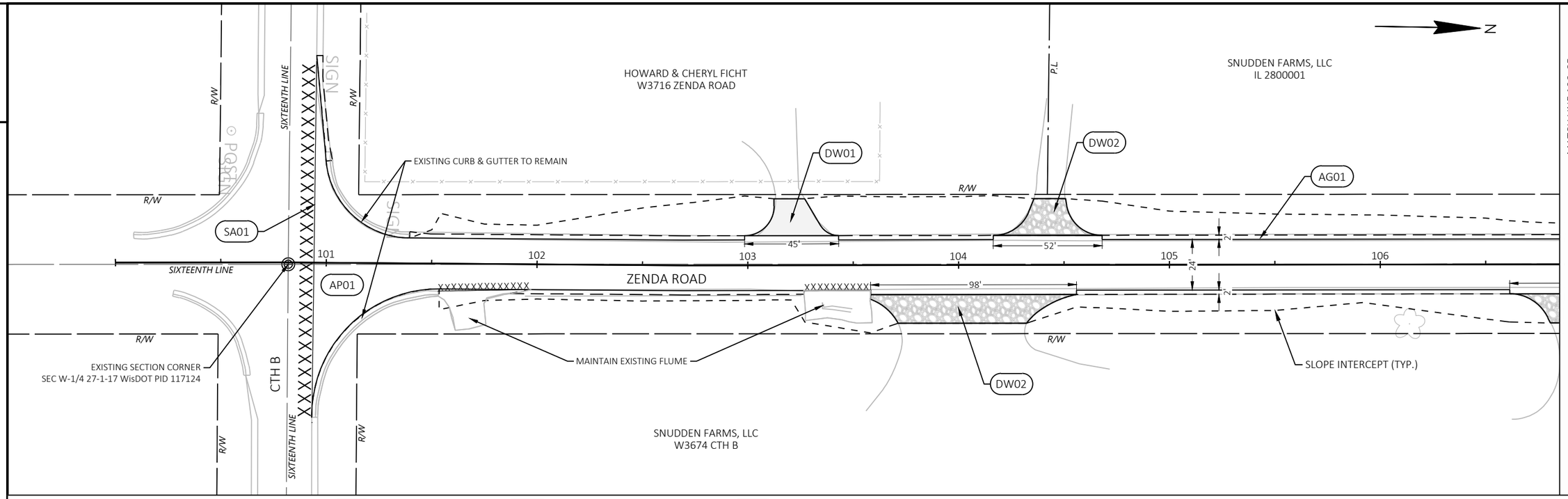
SECTION A-A

LIGHT RANDOM RIPRAP TREATMENT AT CULVERTS

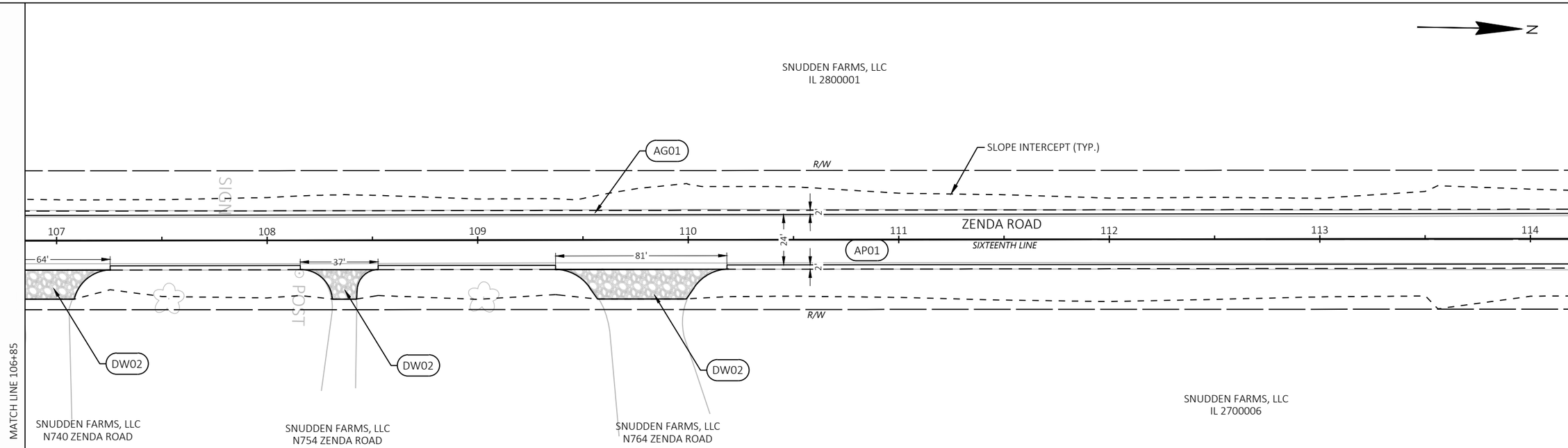


EROSION MAT TREATMENT AT CULVERTS

SEE EROSION CONTROL PLANS FOR
EROSION MAT LOCATIONS

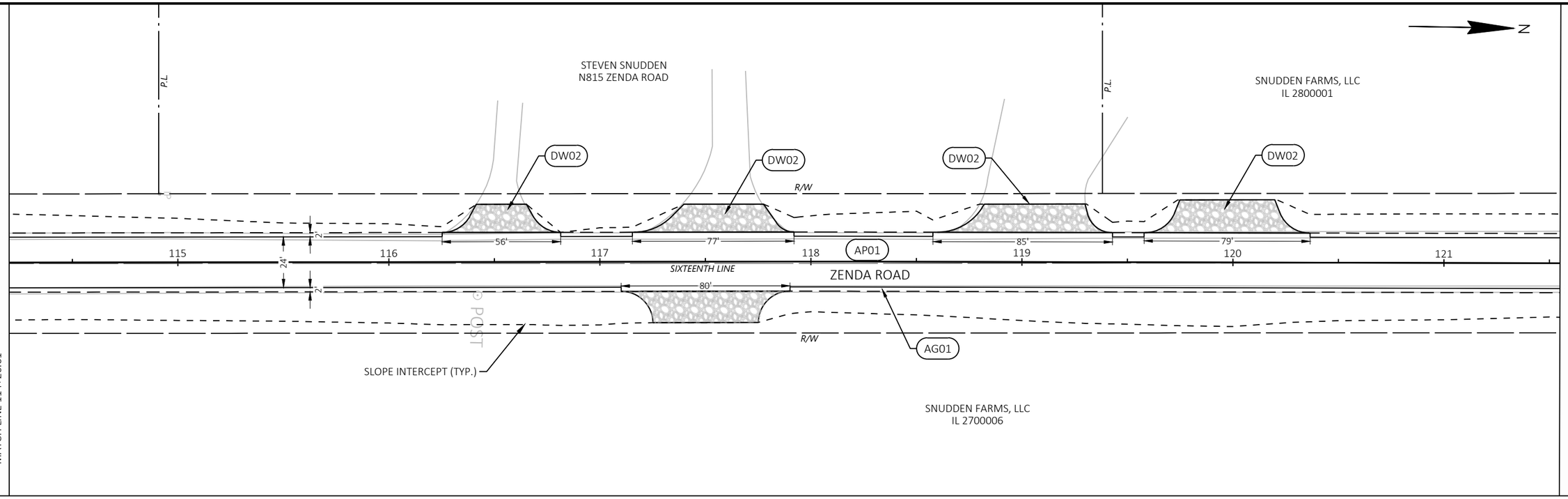


AG01 AGGREGATE SHOULDER
DW02 AGGREGATE DRIVEWAY
CG01 CURB & GUTTER, 6-INCH SLOPED, 36-INCH, TYPE D
AP01 HMA PAVEMENT
DW01 ASPHALT DRIVEWAY, 4-INCH
AF01 ASPHALTIC FLUMES
SA01 SAWING ASPHALT



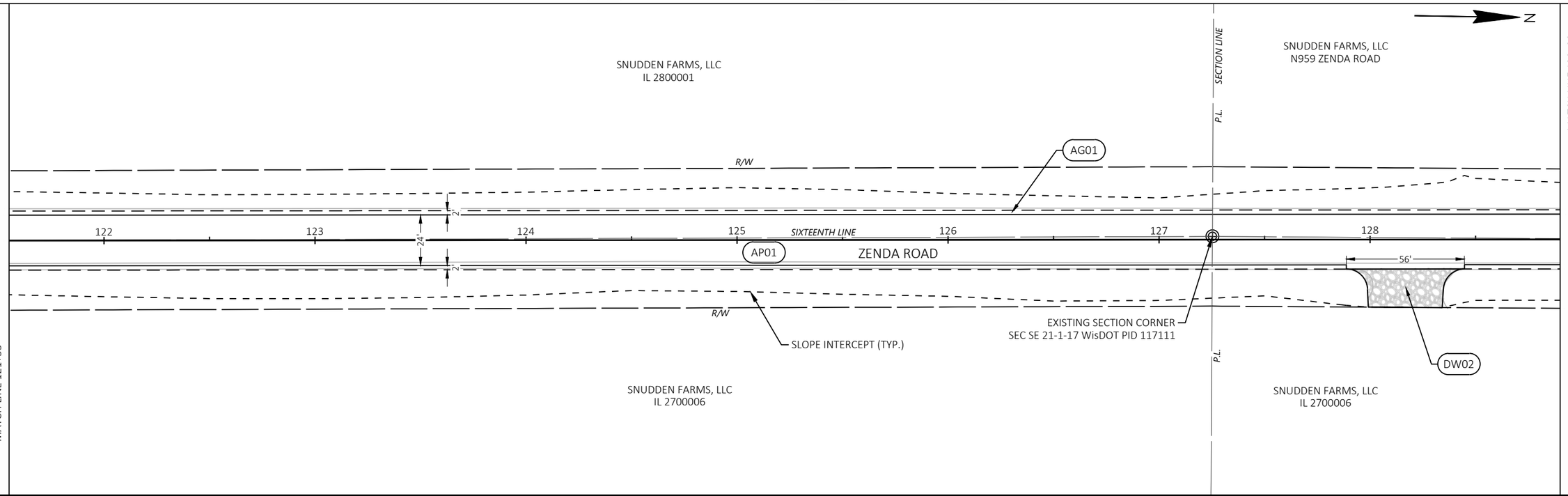
PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN DETAILS	SHEET 8	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-021201-PD.DWG
LAYOUT NAME - 01
PLOT DATE : 10/23/2026 2:01 PM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44



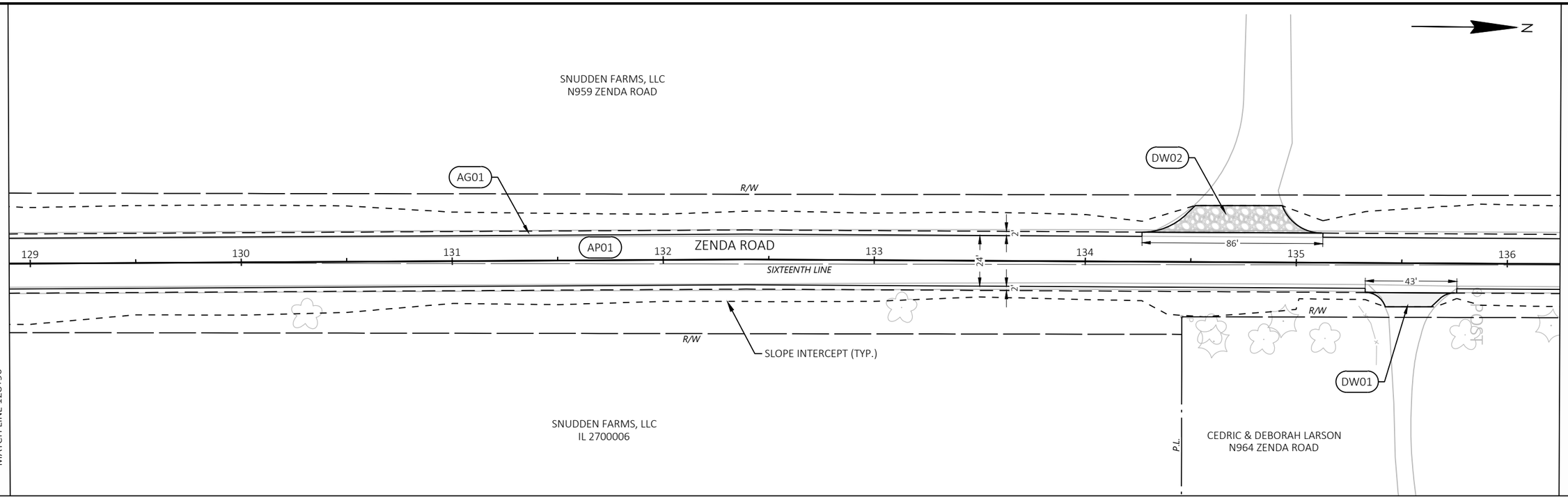
AG01 AGGREGATE SHOULDER | DW02 AGGREGATE DRIVEWAY | CG01 CURB & GUTTER, 6-INCH SLOPED, 36-INCH, TYPE D

AP01 HMA PAVEMENT | DW01 ASPHALT DRIVEWAY, 4-INCH | AF01 ASPHALTIC FLUMES | SA01 SAWING ASPHALT

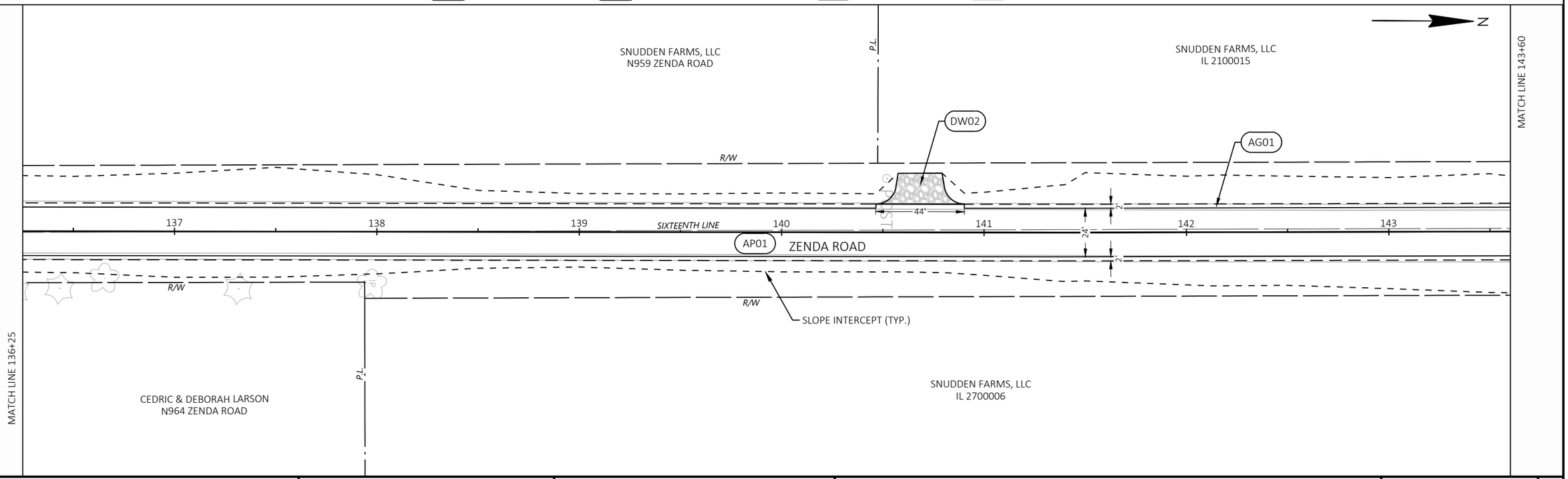


PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN DETAILS	SHEET 9	E

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LAYOUT NAME - 02
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WISDOT/CADDS SHEET 44

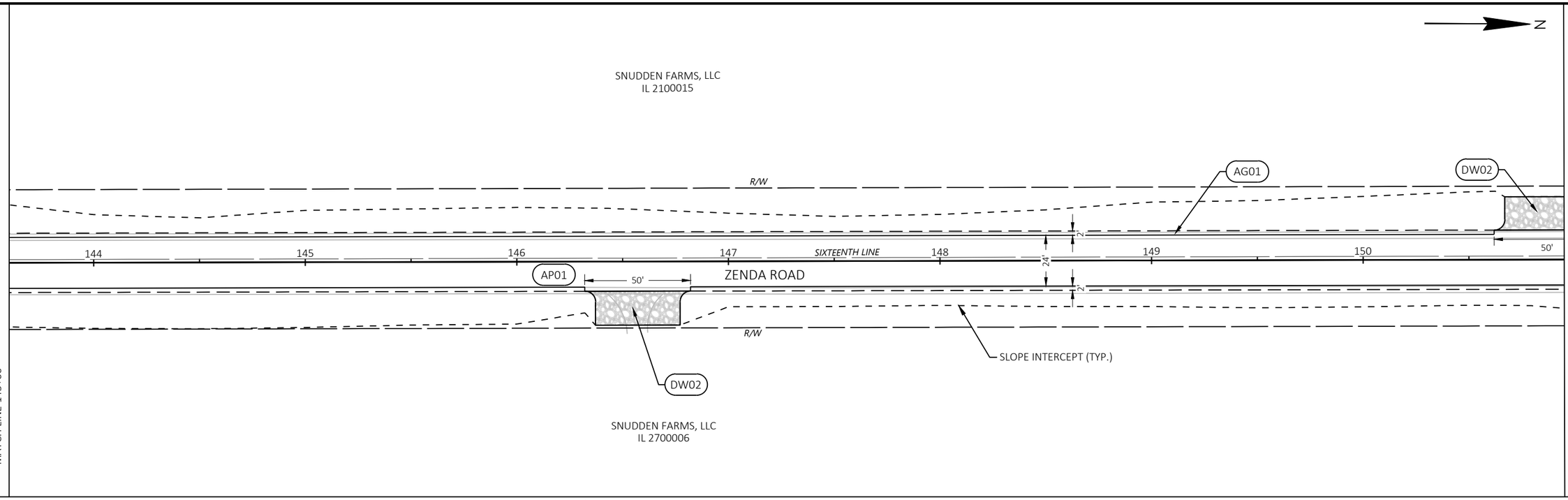


AG01 AGGREGATE SHOULDER
DW02 AGGREGATE DRIVEWAY
CG01 CURB & GUTTER, 6-INCH SLOPED, 36-INCH, TYPE D
AP01 HMA PAVEMENT
DW01 ASPHALT DRIVEWAY, 4-INCH
AF01 ASPHALTIC FLUMES
SA01 SAWING ASPHALT



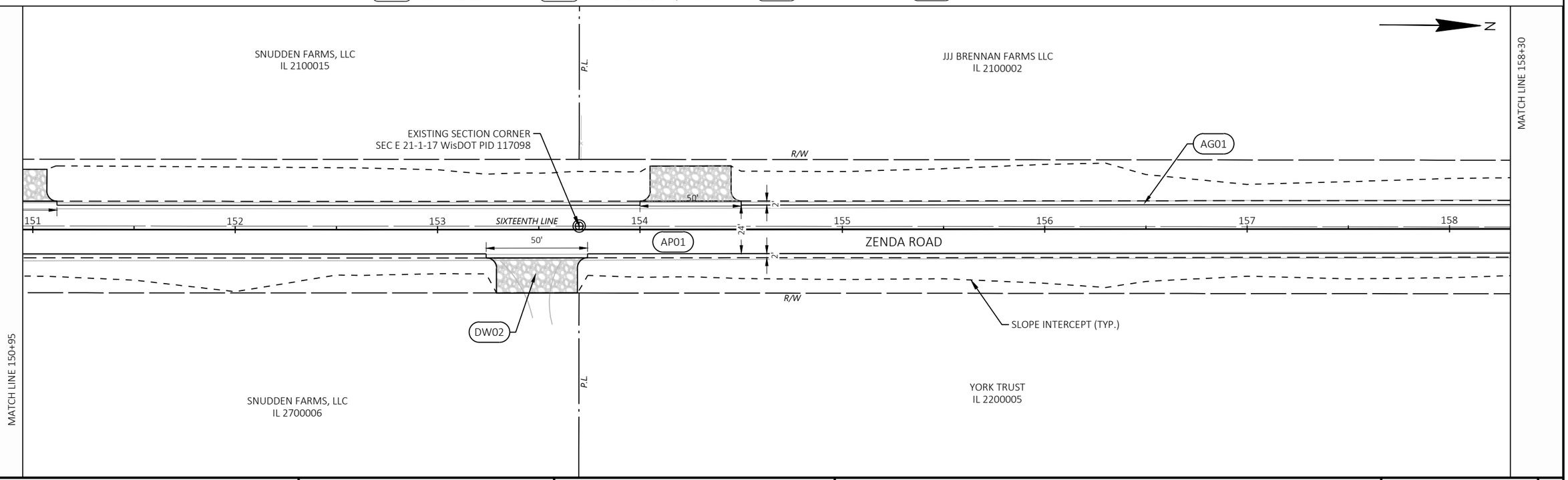
PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN DETAILS	SHEET 10	E

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LAYOUT NAME - 03
PLOT DATE : 10/23/2026 2:02 PM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

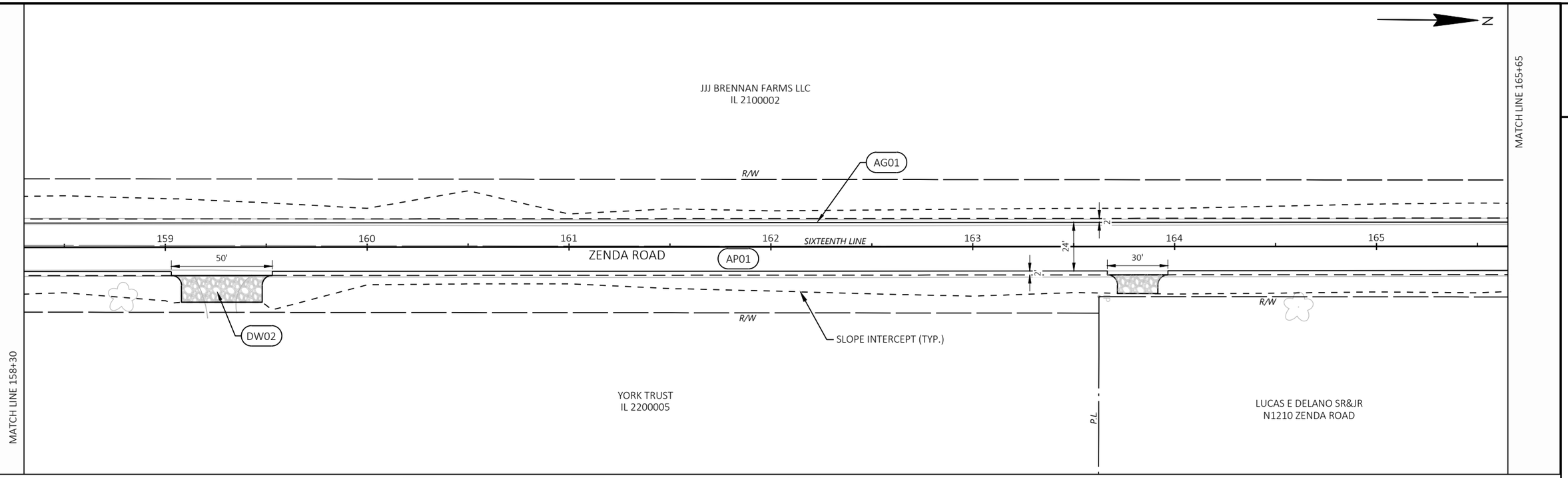


AG01 AGGREGATE SHOULDER | DW02 AGGREGATE DRIVEWAY | CG01 CURB & GUTTER, 6-INCH SLOPED, 36-INCH, TYPE D

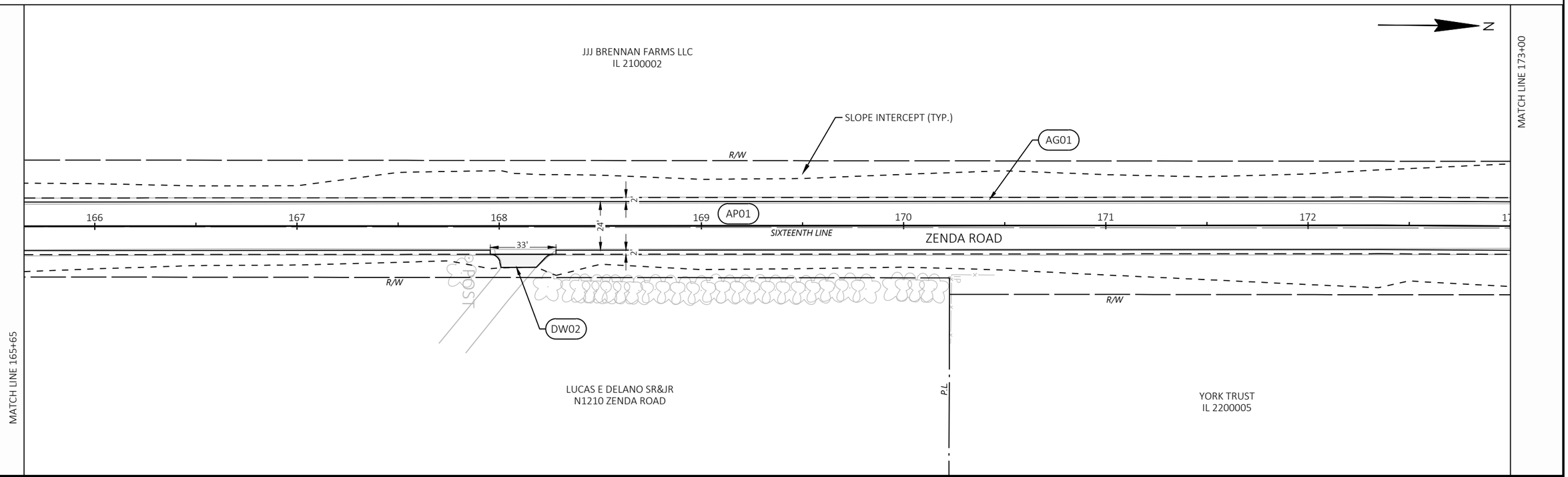
AP01 HMA PAVEMENT | DW01 ASPHALT DRIVEWAY, 4-INCH | AF01 ASPHALTIC FLUMES | SA01 SAWING ASPHALT



PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN DETAILS	SHEET 11	E

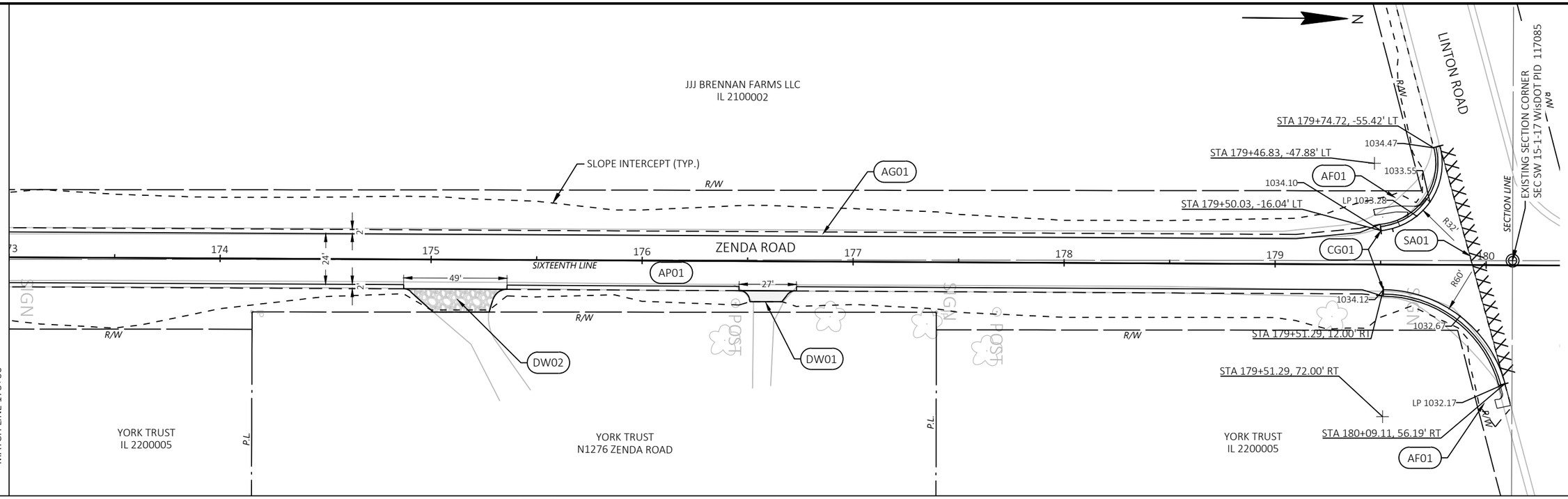


AG01 AGGREGATE SHOULDER
DW02 AGGREGATE DRIVEWAY
CG01 CURB & GUTTER, 6-INCH SLOPED, 36-INCH, TYPE D
AP01 HMA PAVEMENT
DW01 ASPHALT DRIVEWAY, 4-INCH
AF01 ASPHALTIC FLUMES
SA01 SAWING ASPHALT



PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN DETAILS	SHEET 12	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-021201-PD.DWG
LAYOUT NAME - 05
PLOT DATE : 10/23/2026 2:02 PM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44



AG01 AGGREGATE SHOULDER
DW02 AGGREGATE DRIVEWAY
CG01 CURB & GUTTER, 6-INCH SLOPED, 36-INCH, TYPE D
AP01 HMA PAVEMENT
DW01 ASPHALT DRIVEWAY, 4-INCH
AF01 ASPHALTIC FLUMES
SA01 SAWING ASPHALT

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN DETAILS	SHEET 13	E

EXISTING 18" CMCP

R/W

SIXTEENTH LINE

SIGN

POST

HOWARD & CHERYL FICHT
W3716 ZENDA ROAD

P.L

SNUDDEN FARMS, LLC
IL 2800001

N

MATCH LINE 106+85

101 102 103 104 105 106

SIXTEENTH LINE
SEC W-1/4 27-01-17 WisDOT PID 01171240

ZENDA ROAD

SS

B

CTH B

SNUDDEN FARMS, LLC
W3674 CTH B

SLOPE INTERCEPT (TYP.)

LEGEND

- CULVERT PIPE CHECK
- EROSION MAT CLASS I, TYPE B
- LIGHT RIP RAP
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- INLET PROTECTION
- INLET PROTECTION TYPE (X)

N

MATCH LINE 114+20

SNUDDEN FARMS, LLC
IL 2800001

SLOPE INTERCEPT (TYP.)

107 108 109 110 111 112 113 114

ZENDA ROAD

SIXTEENTH LINE

MATCH LINE 106+85

SNUDDEN FARMS, LLC
N740 ZENDA ROAD

SNUDDEN FARMS, LLC
N754 ZENDA ROAD

SNUDDEN FARMS, LLC
N764 ZENDA ROAD

SNUDDEN FARMS, LLC
IL 2700006

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	EROSION CONTROL	SHEET 14	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-022001-EC.DWG
LAYOUT NAME - 01
PLOT DATE : 10/23/2026 1:04 PM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

STEVEN SNUDDEN
N815 ZENDA ROAD

P.L.

SNUDDEN FARMS, LLC
IL 2800001

P.L.

N

MATCH LINE 121+55

R/W

115 116 117 ZENDA ROAD 118 119 120 121

SIXTEENTH LINE

R/W

SLOPE INTERCEPT (TYP.)

MATCH LINE 114+20

SNUDDEN FARMS, LLC
IL 2700006

LEGEND

- CULVERT PIPE CHECK
- EROSION MAT CLASS I, TYPE B
- LIGHT RIP RAP
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- INLET PROTECTION
- INLET PROTECTION TYPE (X)

SNUDDEN FARMS, LLC
IL 2800001

SECTION LINE

P.L.

SNUDDEN FARMS, LLC
N959 ZENDA ROAD

N

MATCH LINE 128+90

R/W

EX. SECTION CORNER

122 123 124 125 SIXTEENTH LINE 126 127 128

ZENDA ROAD

R/W

SLOPE INTERCEPT (TYP.)

MATCH LINE 121+55

SNUDDEN FARMS, LLC
IL 2700006

P.L.

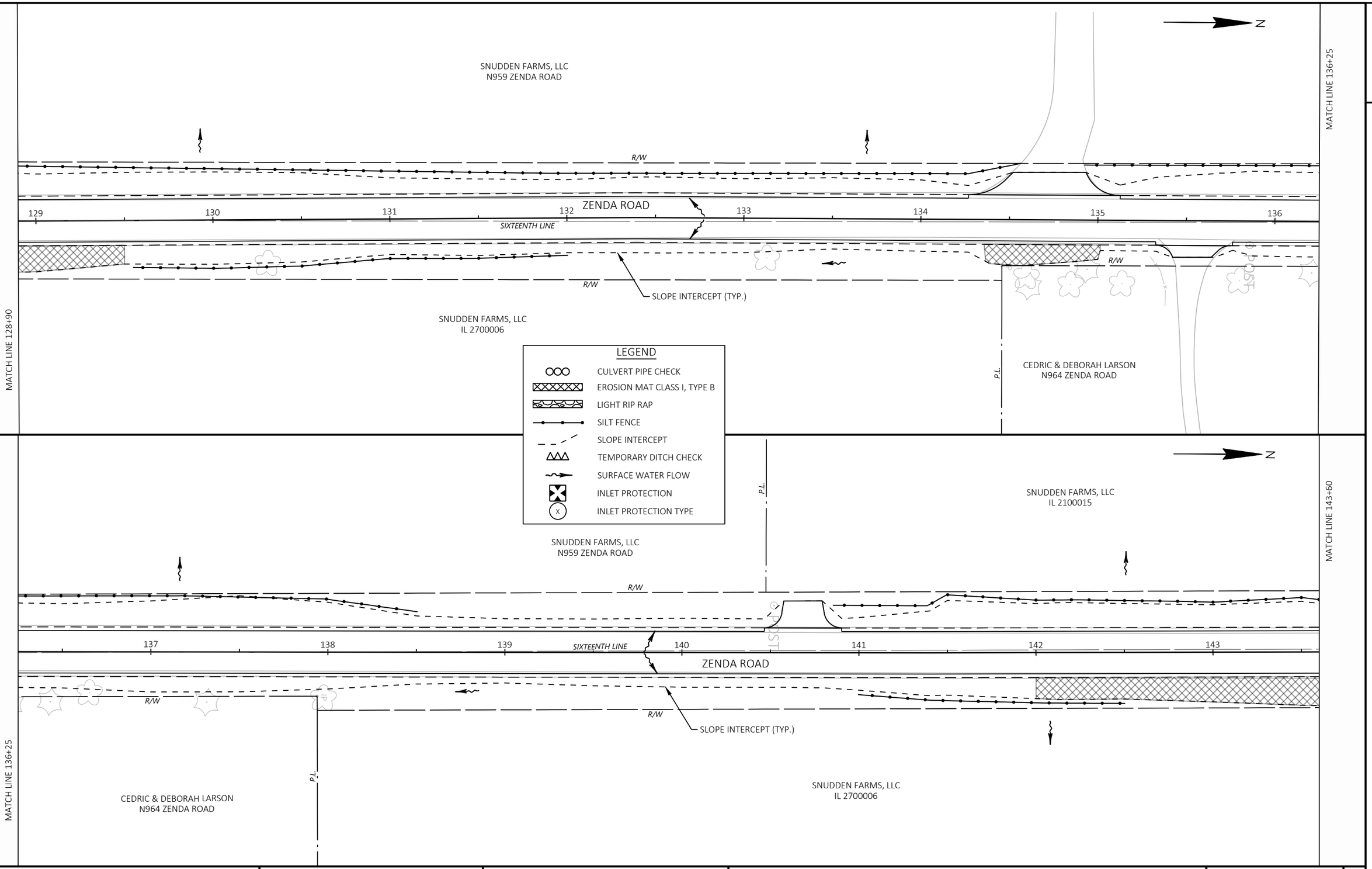
SECTION LINE

SNUDDEN FARMS, LLC
IL 2700006

2

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	EROSION CONTROL	SHEET 15	E

2



2

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	EROSION CONTROL	SHEET 16	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-022001-EC.DWG
LAYOUT NAME - 03
PLOT DATE : 10/23/2026 1:05 PM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

N

SNUDDEN FARMS, LLC
IL 2100015

MATCH LINE 150+95

R/W

144 145 146 147 SIXTEENTH LINE 148 149 150

ZENDA ROAD

R/W

SLOPE INTERCEPT (TYP.)

SNUDDEN FARMS, LLC
IL 2700006

MATCH LINE 143+60

LEGEND

- CULVERT PIPE CHECK
- EROSION MAT CLASS I, TYPE B
- LIGHT RIP RAP
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- INLET PROTECTION
- INLET PROTECTION TYPE (X)

N

SNUDDEN FARMS, LLC
IL 2100015

P.L.

JJ BRENNAN FARMS LLC
IL 2100002

MATCH LINE 158+30

R/W

151 152 153 154 SIXTEENTH LINE 155 ZENDA ROAD 156 157 158

R/W

SLOPE INTERCEPT (TYP.)

MATCH LINE 150+95

SNUDDEN FARMS, LLC
IL 2700006

P.L.

YORK TRUST
IL 2200005

2

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	EROSION CONTROL	SHEET 17	E

2

N

JJJ BRENNAN FARMS LLC
IL 2100002

R/W

159 160 161 162 SIXTEENTH LINE 163 164 165

ZENDA ROAD

R/W

SLOPE INTERCEPT (TYP.)

YORK TRUST
IL 2200005

MATCH LINE 158+30

MATCH LINE 165+65

P.L

LUCAS E DELANO SR&JR
N1210 ZENDA ROAD

LEGEND

- CULVERT PIPE CHECK
- EROSION MAT CLASS I, TYPE B
- LIGHT RIP RAP
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- INLET PROTECTION
- INLET PROTECTION TYPE (X)

2

N

JJJ BRENNAN FARMS LLC
IL 2100002

SLOPE INTERCEPT (TYP.)

R/W

166 167 168 169 ZENDA ROAD 170 171 172

SIXTEENTH LINE

R/W

R/W

MATCH LINE 165+65

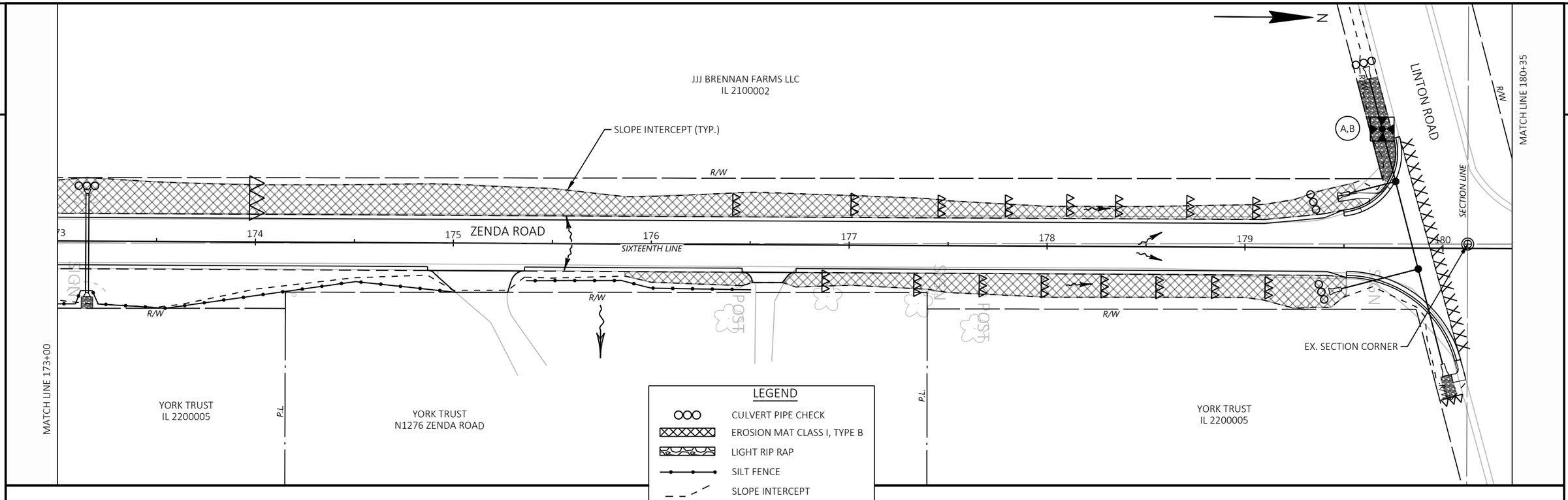
MATCH LINE 173+00

LUCAS E DELANO SR&JR
N1210 ZENDA ROAD

P.L

YORK TRUST
IL 2200005

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	EROSION CONTROL	SHEET 18	E

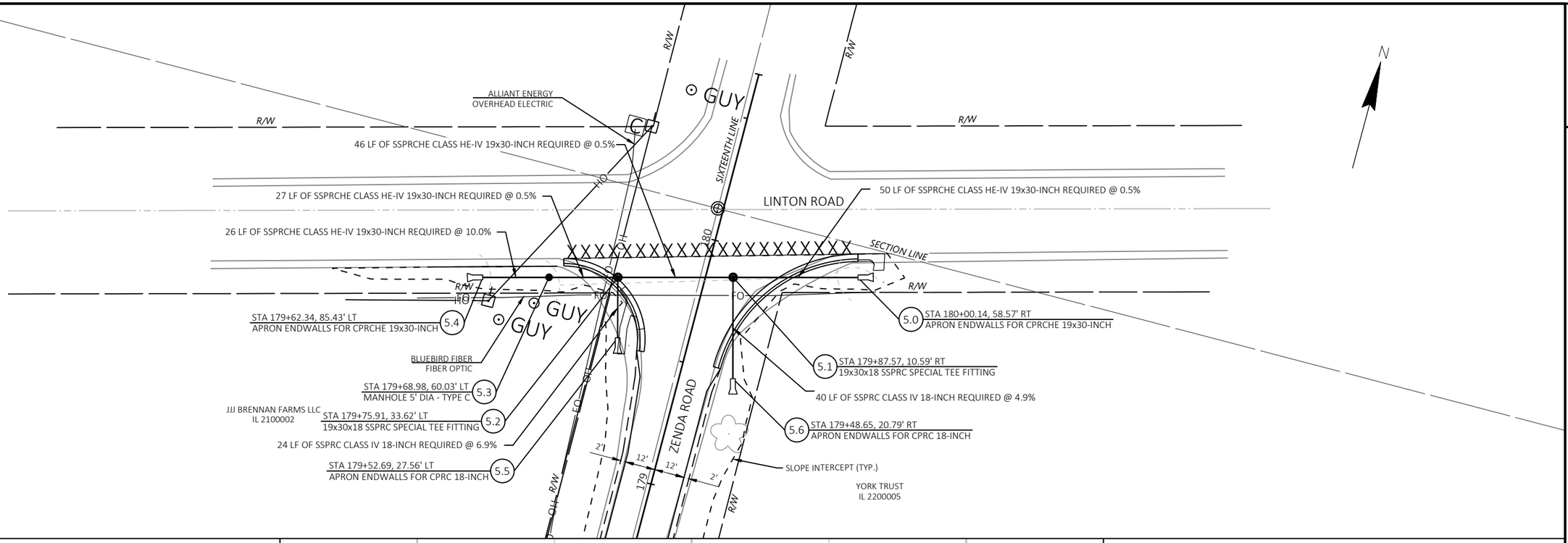


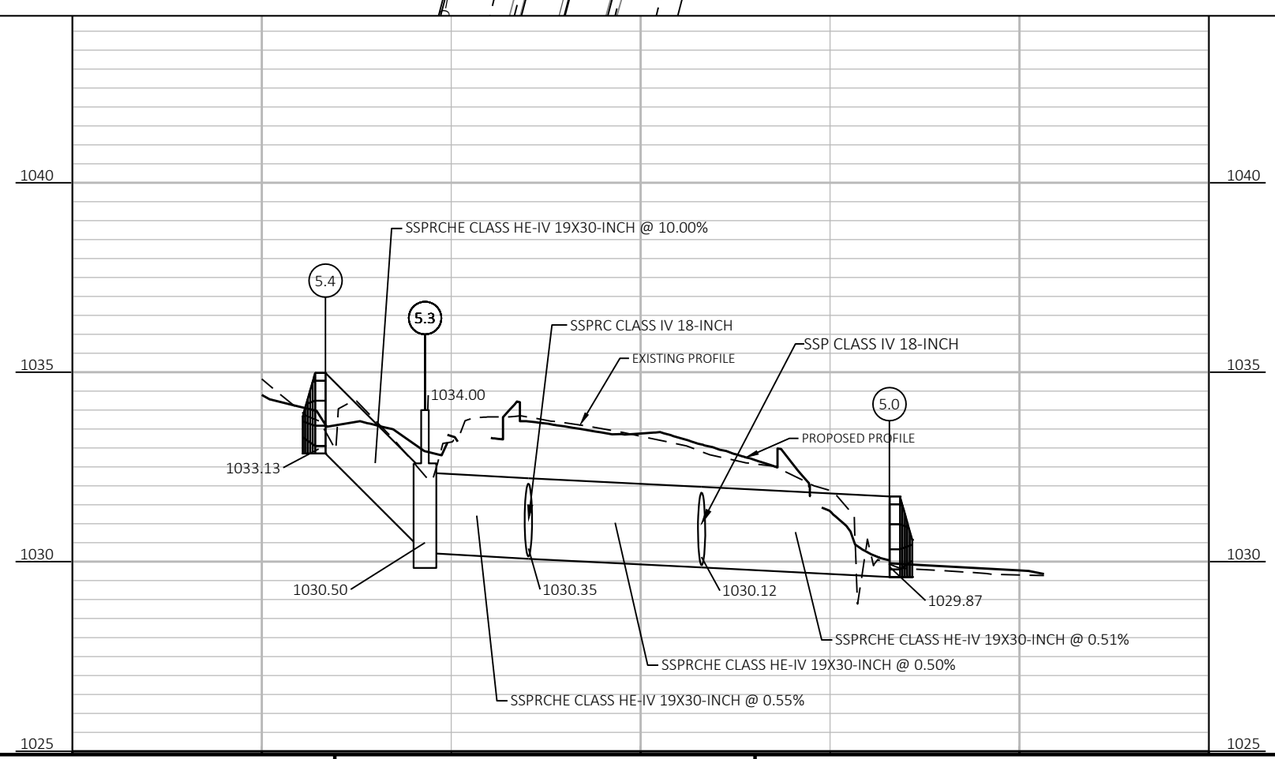
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	EROSION CONTROL	SHEET 19	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-022001-EC.DWG
LAYOUT NAME - 06
PLOT DATE : 10/23/2026 1:05 PM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

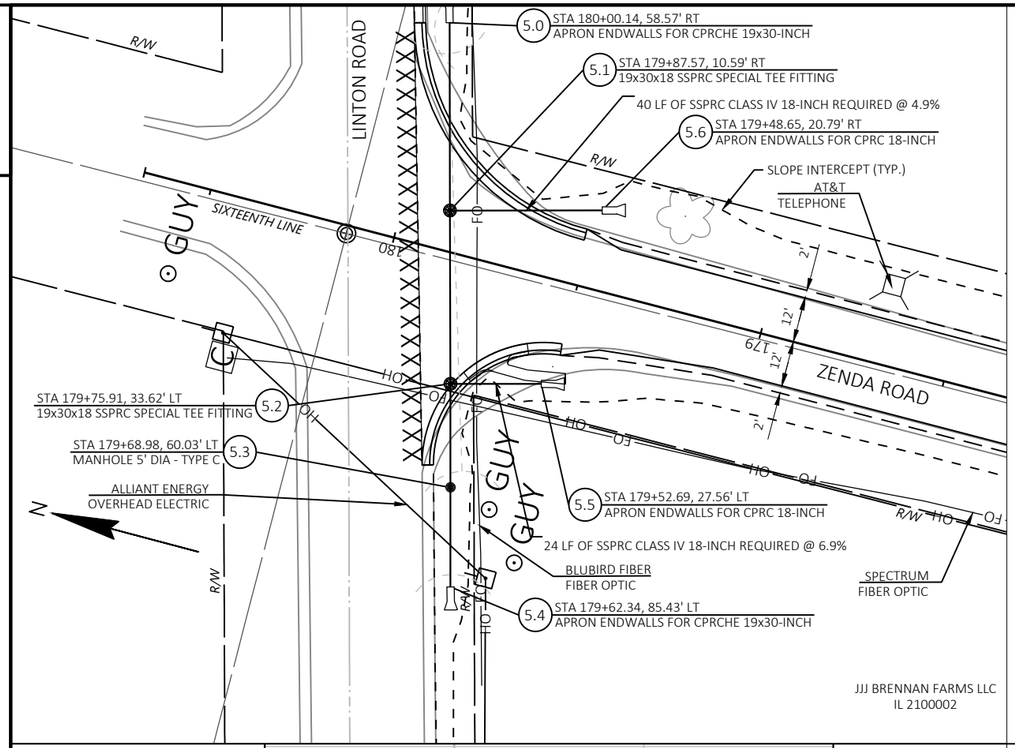
2

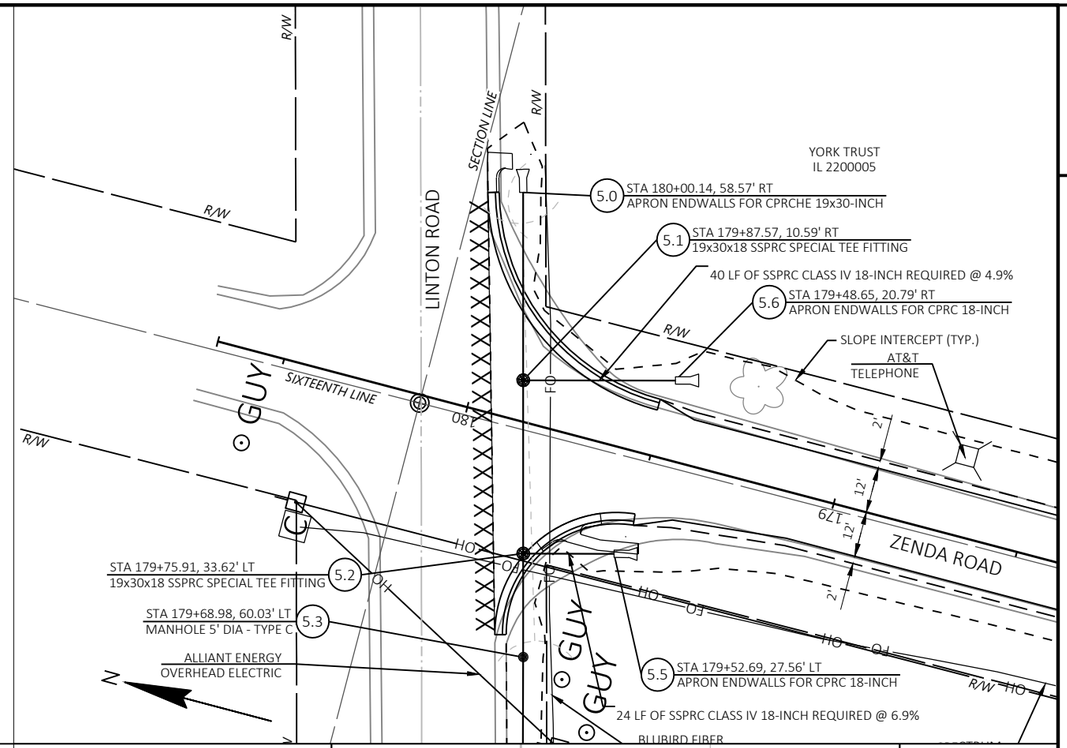


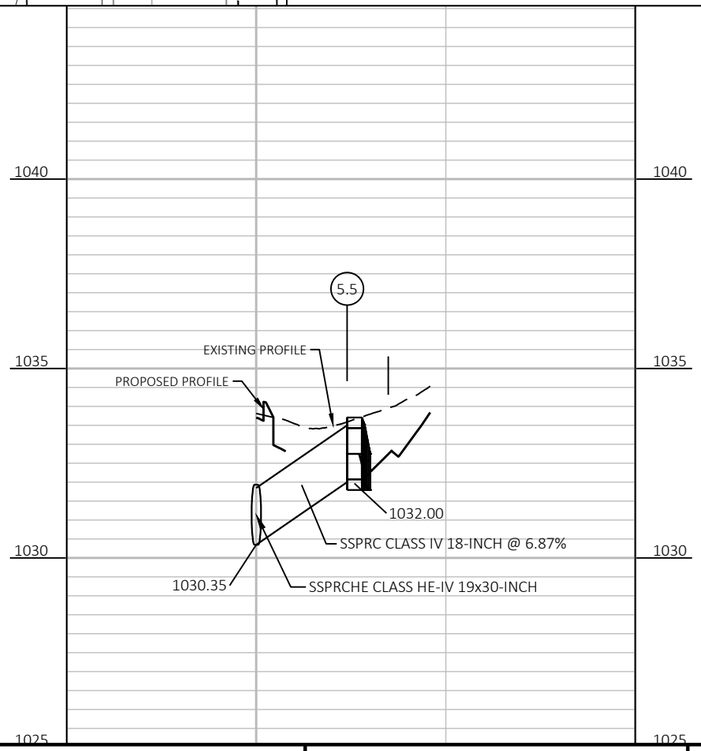


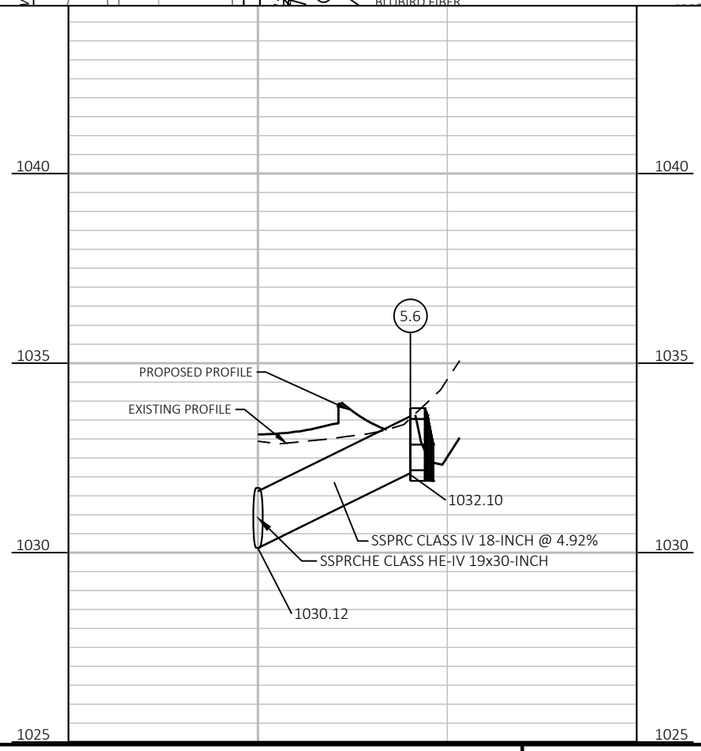
PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	STORM SEWER PLAN	SHEET 20	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-022501-SS.DWG
LAYOUT NAME - 38460201-022501-01
PLOT DATE : 10/22/2026 1:37 PM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41









PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	STORM SEWER PLAN	SHEET 21	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-022501-SS01.DWG
LAYOUT NAME - 38460201-022501
PLOT DATE : 10/22/2026 1:37 PM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

2

HOWARD & CHERYL FICHT
W3716 ZENDA ROAD

SNUDDEN FARMS, LLC
IL 2800001

MATCH LINE 106+85

N

R/W

P.L.

SIGN

STOP
R1-1
30"X30"

STOP
REMOVE

01-01

SALVAGE & INSTALL RED REFLECTIVE PANEL ON NEW POST
(INCIDENTAL TO INSTALLATION OF NEW POST)

1

2

101 102 103 104 105 106

12'

12'

ZENDA ROAD

SEC W-1/4 27-01-17 WisDOT PID 01171240

STA 101+00. 0.00

CTH B

SNUDDEN FARMS, LLC
W3674 CTH B

MARKING LEGEND

1 MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW

2 MARKING LINE EPOXY 6-INCH, WHITE

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

XX-XX DENOTES SIGN NUMBER

(XX"xXX") INDICATES SIGN SIZE

SIGN FLAGS PERMANENT TYPE II

SNUDDEN FARMS, LLC
IL 2800001

MATCH LINE 114+20

W3-1
36"X36"

REMOVE

01-02

SALVAGE & INSTALL YELLOW REFLECTIVE PANEL ON NEW POST
(INCIDENTAL TO INSTALLATION OF NEW POST)

107 108 109 110 111 112 113 114

ZENDA ROAD

MATCH LINE 106+85

SNUDDEN FARMS, LLC
N740 ZENDA ROAD

SNUDDEN FARMS, LLC
N754 ZENDA ROAD

SNUDDEN FARMS, LLC
N764 ZENDA ROAD

SNUDDEN FARMS, LLC
IL 2700006

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PAVEMENT MARKING & PERMANENT SIGNING	SHEET 22	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-024501-PM.DWG
LAYOUT NAME - 01
PLOT DATE : 10/23/2026 8:48 AM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

P.L.

STEVEN SNUDDEN
N815 ZENDA ROAD

SNUDDEN FARMS, LLC
IL 2800001

P.L.

N

MATCH LINE 121+55

2

R/W

1

2

115 116 117 118 119 120 121

12'

ZENDA ROAD

12'

2

R/W

POST

MATCH LINE 114+20

SNUDDEN FARMS, LLC
IL 2700006

MARKING LEGEND

1 MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW

2 MARKING LINE EPOXY 6-INCH, WHITE

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

XX-XX DENOTES SIGN NUMBER

(XX"xXX") INDICATES SIGN SIZE

SIGN FLAGS PERMANENT TYPE II

SNUDDEN FARMS, LLC
IL 2800001

N

SECTION LINE

P.L.

SNUDDEN FARMS, LLC
N959 ZENDA ROAD

MATCH LINE 128+90

R/W

1

2

EX. SECTION CORNER

122 123 124 125 126 SECTION LINE 127 128

12'

ZENDA ROAD

12'

2

R/W

P.L.

SECTION LINE

MATCH LINE 121+55

SNUDDEN FARMS, LLC
IL 2700006

SNUDDEN FARMS, LLC
IL 2700006

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PAVEMENT MARKING & PERMANENT SIGNING	SHEET 23	E

2

SNUDDEN FARMS, LLC
N959 ZENDA ROAD

MATCH LINE 128+90

MATCH LINE 136+25

2

N

R/W

1

2

129 130 131 132 133 134 135 136

12'

12'

ZENDA ROAD

2

R/W

P.L.

POST

SNUDDEN FARMS, LLC
IL 2700006

CEDRIC & DEBORAH LARSON
N964 ZENDA ROAD

MARKING LEGEND

1 MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW

2 MARKING LINE EPOXY 6-INCH, WHITE

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

XX-XX DENOTES SIGN NUMBER

(XX"xXX") INDICATES SIGN SIZE

SIGN FLAGS PERMANENT TYPE II

N

SNUDDEN FARMS, LLC
N959 ZENDA ROAD

SNUDDEN FARMS, LLC
IL 2100015

MATCH LINE 143+60

P.L.

R/W

1

2

POST

137 138 139 140 141 142 143

12'

12'

ZENDA ROAD

2

R/W

R/W

P.L.

MATCH LINE 136+25

CEDRIC & DEBORAH LARSON
N964 ZENDA ROAD

SNUDDEN FARMS, LLC
IL 2700006

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PAVEMENT MARKING & PERMANENT SIGNING	SHEET 24	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-024501-PM.DWG
LAYOUT NAME - 03
PLOT DATE : 8/3/2026 10:27 AM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

N

SNUDDEN FARMS, LLC
IL 2100015

MATCH LINE 150+95

2

R/W

1

2

144 145 146 147 148 149 150

12'

12'

ZENDA ROAD

2

R/W

MATCH LINE 143+60

SNUDDEN FARMS, LLC
IL 2700006

MARKING LEGEND

1 MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW

2 MARKING LINE EPOXY 6-INCH, WHITE

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

XX-XX DENOTES SIGN NUMBER

(XX"xXX") INDICATES SIGN SIZE

SIGN FLAGS PERMANENT TYPE II

N

SNUDDEN FARMS, LLC
IL 2100015

JJJ BRENNAN FARMS LLC
IL 2100002

MATCH LINE 158+30

P.L.

R/W

1

2

151 152 153 154 155 156 157 158

12'

12'

ZENDA ROAD

2

R/W

MATCH LINE 150+95

SNUDDEN FARMS, LLC
IL 2700006

P.L.

YORK TRUST
IL 2200005

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PAVEMENT MARKING & PERMANENT SIGNING	SHEET 25	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-024501-PM.DWG
LAYOUT NAME - 04
PLOT DATE : 8/3/2026 10:26 AM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

JJJ BRENNAN FARMS LLC
IL 2100002

N

MATCH LINE 165+65

R/W

1

2

159 160 161 162 163 164 165

12'

12'

ZENDA ROAD

2

R/W

R/W

MATCH LINE 158+30

YORK TRUST
IL 2200005

P.L.

LUCAS E DELANO SR&JR
N1210 ZENDA ROAD

MARKING LEGEND

1 MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW

2 MARKING LINE EPOXY 6-INCH, WHITE

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

XX-XX DENOTES SIGN NUMBER

(XX"xXX") INDICATES SIGN SIZE

SIGN FLAGS PERMANENT TYPE II

JJJ BRENNAN FARMS LLC
IL 2100002

N

MATCH LINE 173+00

R/W

1

2

166 167 168 169 170 171 172

12'

12'

ZENDA ROAD

2

R/W

R/W

MATCH LINE 165+65

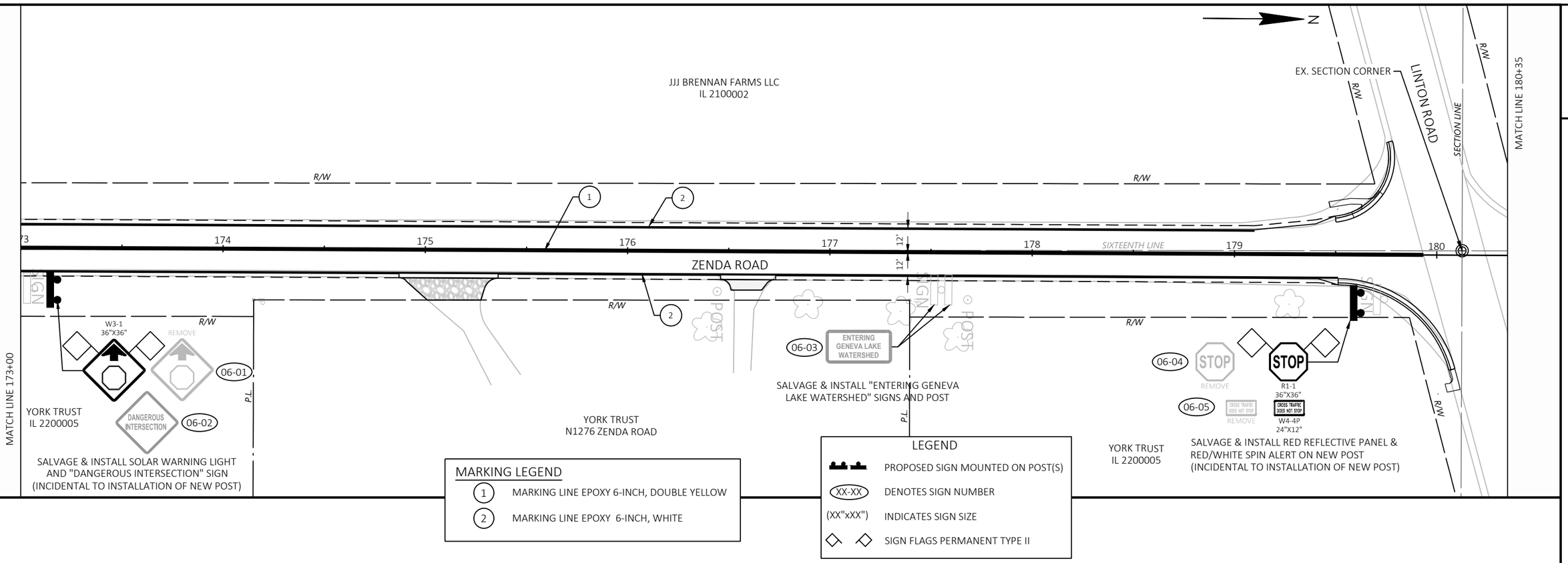
LUCAS E DELANO SR&JR
N1210 ZENDA ROAD

P.L.

YORK TRUST
IL 2200005

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PAVEMENT MARKING & PERMANENT SIGNING	SHEET 26	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-024501-PM.DWG
LAYOUT NAME - 05
PLOT DATE : 8/3/2026 10:26 AM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

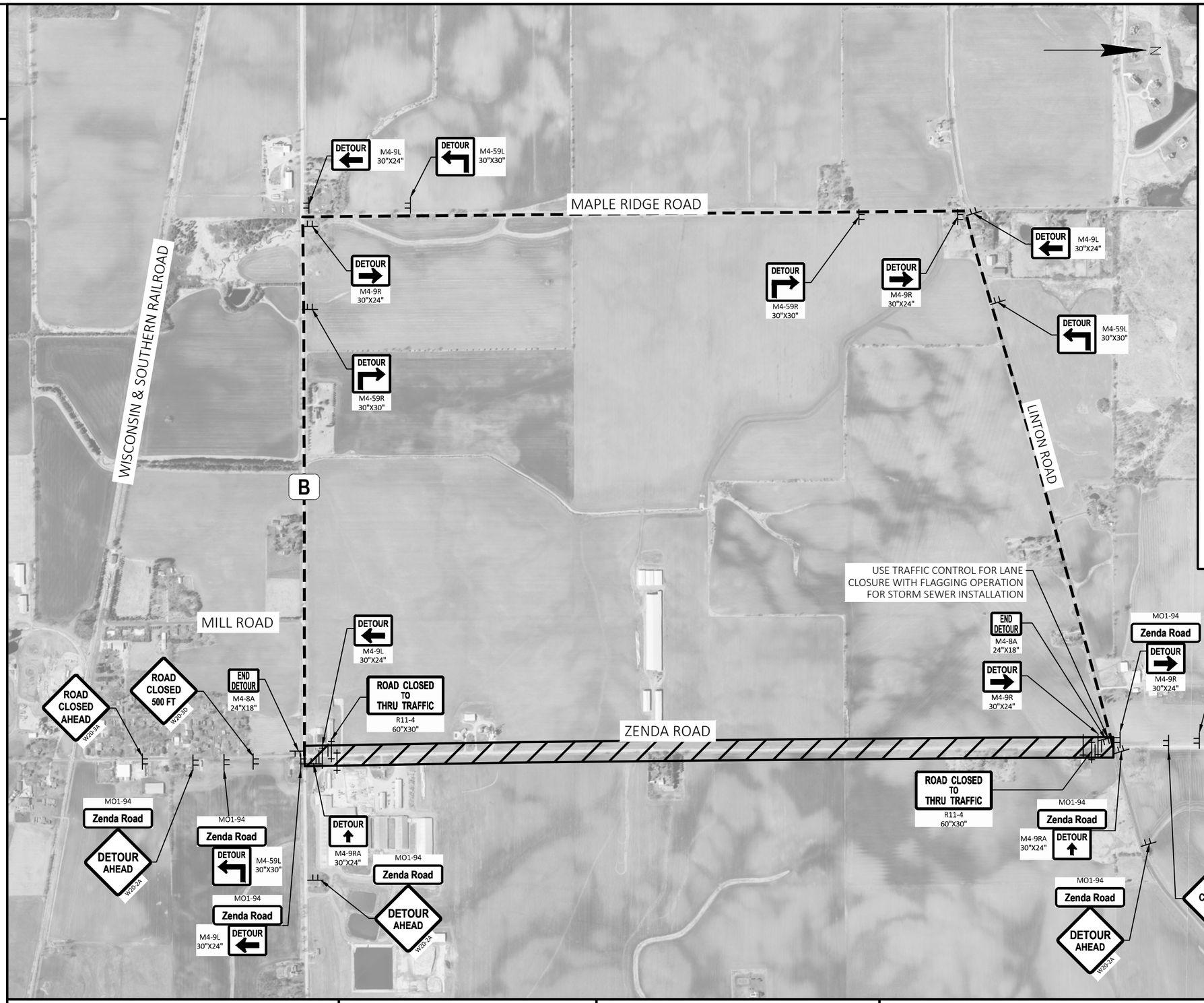


2

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PAVEMENT MARKING & PERMANENT SIGNING	SHEET 27	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-024501-PM.DWG
LAYOUT NAME - 06
PLOT DATE : 10/23/2026 8:49 AM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2



LEGEND

- PROJECT WORK AREA
- DETOUR ROUTE
- SIGN ON TEMPORARY SUPPORT (MOVEABLE SUPPORT MAY BE USED)
- TEMPORARY TYPE-III BARRICADE
- TEMPORARY TYPE-III BARRICADE WITH SIGN

NOTES

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

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

MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.

IF EXISTING SIGNS ARE TO BE REMOVED, OR TO BE MOVED TO A NEW PERMANENT LOCATION, ARE FIRST MOVED FOR SERVICE UNDER STAGED CONSTRUCTION, AS APPROVED BY THE ENGINEER, THE SIGNS AND SUPPORTS WILL BE PAID FOR AS "TRAFFIC CONTROL SIGNS".

MO1-94 SIGNS REQUIRE AN ORANGE BACKGROUND

REFERENCED WIDOT STANDARD DETAIL DRAWINGS

BARRICADES AND SIGNS FOR MAINLINE CLOSURE

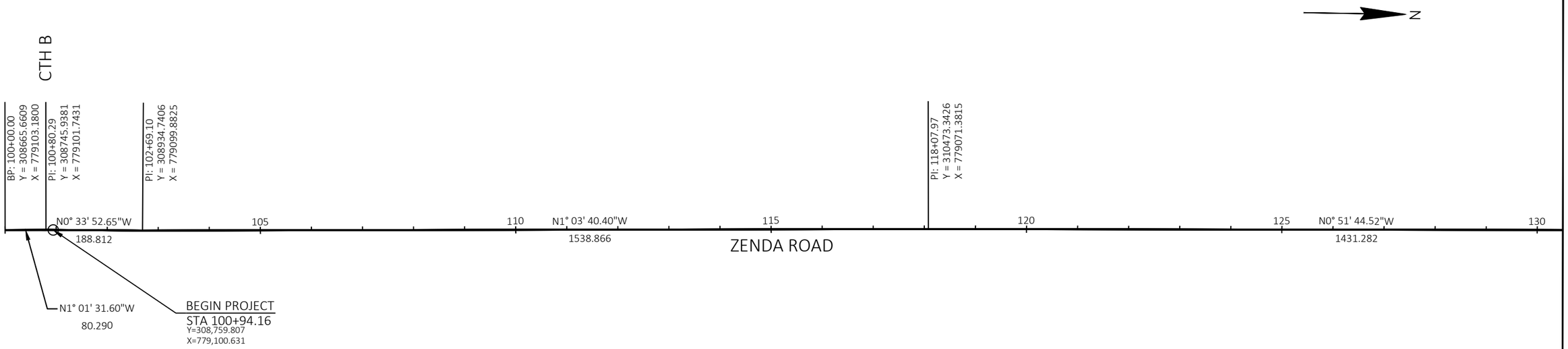
TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 MPH OR MORE TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

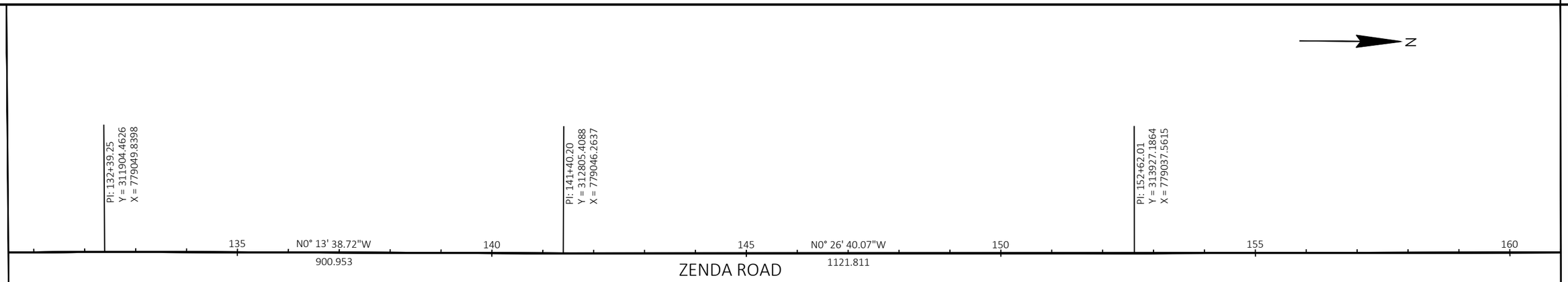
TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	DETOURS	SHEET 28	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-025100-TC.DWG
LAYOUT NAME - 01
PLOT DATE : 10/23/2026 11:31 AM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:1000 FT
WISDOT/CADDS SHEET 42



MATCH LINE 130+50



MATCH LINE 161+00

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	ALIGNMENT PLAN	SHEET 29	E

FILE NAME : C:\USERS\SBULLOCK\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-027201-AD.DWG
LAYOUT NAME - 01
PLOT DATE : 7/31/2026 3:28 PM
PLOT BY : STEVEN BULLOCK
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

2

2

N

PI: 172+34.81
Y = 315899.8973
X = 779019.8305

LINTON ROAD

EP: 180+68.07
Y = 316733.1592
X = 779017.3036

N0° 30' 53.89"W
1972.791

165

170

175

N0° 10' 25.51"W
833.266

180

ZENDA ROAD

END PROJECT
STA 179+93.48
Y=316,658.034
X=779,015.637

MATCH LINE 161+00

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	ALIGNMENT PLAN	SHEET 30	E

FILE NAME : C:\USERS\SBULLOCK\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-027201-AD.DWG
LAYOUT NAME - 02

PLOT DATE : 7/31/2026 3:28 PM PLOT BY : STEVEN BULLOCK PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

2

HOWARD & CHERYL FICHT
W3716 ZENDA ROAD

SNUDDEN FARMS, LLC
IL 2800001

N

MATCH LINE 106+85

R/W

P.L.

SIGN

POST

ZENDA ROAD

101 102 103 104 105 106

BORE

16

CTH B

902

CONTROL POINTS				
POINT NAME	Y	X	ELEVATION	DESCRIPTION
902	308828.074	779155.486	1002.67	CP REBAR3/4

SNUDDEN FARMS, LLC
W3674 CTH B

SNUDDEN FARMS, LLC
IL 2800001

N

MATCH LINE 114+20

MATCH LINE 106+85

107 108 109 110 111 112 113 114

BORE

15

ZENDA ROAD

BORE

14

SNUDDEN FARMS, LLC
N740 ZENDA ROAD

SNUDDEN FARMS, LLC
N754 ZENDA ROAD

SNUDDEN FARMS, LLC
N764 ZENDA ROAD

SNUDDEN FARMS, LLC
IL 2700006

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CONTROL POINTS & BORINGS	SHEET 31	E

FILE NAME : C:\USERS\SBULLOCK\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-027301-CONTROL POINTS & BORINGS.DWG 7/31/2026 3:34 PM PLOT BY : STEVEN BULLOCK PLOT NAME : PLOT SCALE : 1 IN:50 FT
LAYOUT NAME - 01

WISDOT/CADDS SHEET 44

2

P.L.

STEVEN SNUDDEN
N815 ZENDA ROAD

P.L.

SNUDDEN FARMS, LLC
IL 2800001

N

R/W

115 116 117 118 119 120 121

BORE

13

ZENDA ROAD

R/W

SNUDDEN FARMS, LLC
IL 2700006

MATCH LINE 114+20

MATCH LINE 121+55

2

N

SNUDDEN FARMS, LLC
IL 2800001

SNUDDEN FARMS, LLC
N959 ZENDA ROAD

MATCH LINE 128+90

R/W

122 123 124 125 126 127 128

BORE

12

ZENDA ROAD

BORE

11

R/W

SNUDDEN FARMS, LLC
IL 2700006

SNUDDEN FARMS, LLC
IL 2700006

MATCH LINE 121+55

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CONTROL POINTS & BORINGS	SHEET 32	E

FILE NAME : C:\USERS\SBULLOCK\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-027301-CONTROL POINTS & BORINGS.DWG 7/31/2026 3:34 PM PLOT BY : STEVEN BULLOCK PLOT NAME : PLOT SCALE : 1 IN:50 FT
LAYOUT NAME - 02

WISDOT/CADDS SHEET 44

2

SNUDDEN FARMS, LLC
N959 ZENDA ROAD

N

R/W

129 130 131 132 133 134 135 136

BORE
10

ZENDA ROAD

R/W

MATCH LINE 128+90

SNUDDEN FARMS, LLC
IL 2700006

P.L.

CEDRIC & DEBORAH LARSON
N964 ZENDA ROAD

POST

MATCH LINE 136+25

2

SNUDDEN FARMS, LLC
N959 ZENDA ROAD

P.L.

SNUDDEN FARMS, LLC
IL 2100015

N

R/W

POST

MATCH LINE 143+60

137 138 139 140 141 142 143

BORE
9

ZENDA ROAD

BORE
8

R/W

R/W

P.L.

MATCH LINE 136+25

CEDRIC & DEBORAH LARSON
N964 ZENDA ROAD

SNUDDEN FARMS, LLC
IL 2700006

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CONTROL POINTS & BORINGS	SHEET 33	E

FILE NAME : C:\USERS\SBULLOCK\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-027301-CONTROL POINTS & BORINGS.DWG 7/31/2026 3:34 PM PLOT BY : STEVEN BULLOCK PLOT NAME : PLOT SCALE : 1 IN:50 FT
LAYOUT NAME - 03

WISDOT/CADDS SHEET 44

2

N

SNUDDEN FARMS, LLC
IL 2100015

R/W

144 145 146 147 148 149 150

BORE 7

ZENDA ROAD

903

R/W

MATCH LINE 143+60

MATCH LINE 150+95

2

CONTROL POINTS				
POINT NAME	Y	X	ELEVATION	DESCRIPTION
903	313101.988	779070.203	1035.73	CP REBAR3/4

SNUDDEN FARMS, LLC
IL 2700006

N

SNUDDEN FARMS, LLC
IL 2100015

P.L.

JJJ BRENNAN FARMS LLC
IL 2100002

R/W

151 152 153 154 155 156 157 158

BORE 5

BORE 6

ZENDA ROAD

R/W

MATCH LINE 150+95

MATCH LINE 158+30

SNUDDEN FARMS, LLC
IL 2700006

P.L.

YORK TRUST
IL 2200005

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CONTROL POINTS & BORINGS	SHEET 34	E

2

JJJ BRENNAN FARMS LLC
IL 2100002

R/W

159 160 161 162 163 164 165

ZENDA ROAD

BORE

4

R/W

R/W

P.L.

MATCH LINE 158+30

YORK TRUST
IL 2200005

LUCAS E DELANO SR&JR
N1210 ZENDA ROAD

MATCH LINE 165+65

2

JJJ BRENNAN FARMS LLC
IL 2100002

R/W

3

BORE

166 167 168 169 170 171 172

ZENDA ROAD

R/W

R/W

P.L.

MATCH LINE 165+65

LUCAS E DELANO SR&JR
N1210 ZENDA ROAD

YORK TRUST
IL 2200005

MATCH LINE 173+00

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CONTROL POINTS & BORINGS	SHEET 35	E

FILE NAME : C:\USERS\SBULLOCK\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-027301-CONTROL POINTS & BORINGS.DWG
LAYOUT NAME - 05

7/31/2026 3:34 PM PLOT BY : STEVEN BULLOCK PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

JJJ BRENNAN FARMS LLC
IL 2100002

N

LINTON ROAD

MATCH LINE 180+35

2

R/W

1

BORE

173 174 175 176 177 178 179 180

BORE

2

ZENDA ROAD

SIGN

R/W

POST

R/W

SIGN

POST

R/W

SIGN

MATCH LINE 173+00

P.L.

P.L.

YORK TRUST
IL 2200005

YORK TRUST
N1276 ZENDA ROAD

YORK TRUST
IL 2200005

N

R/W

NO SIGN

ZENDA ROAD

R/W

MATCH LINE 180+35

901

CONTROL POINTS				
POINT NAME	Y	X	ELEVATION	DESCRIPTION
901	316730.507	779056.608	1029.76	CP REBAR3/4

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CONTROL POINTS & BORINGS	SHEET 36

FILE NAME : C:\USERS\SBULLOCK\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-027301-CONTROL POINTS & BORINGS.DWG
LAYOUT NAME - 06

PLOTTED : 7/31/2026 3:34 PM PLOT BY : STEVEN BULLOCK PLOT NAME : PLOT SCALE : 1 IN:50 FT

Estimate Of Quantities

3846-02-71

Line	Item	Item Description	Unit	Total	Qty
0002	201.0120	Clearing	ID	74.000	74.000
0004	201.0220	Grubbing	ID	74.000	74.000
0006	203.0100	Removing Small Pipe Culverts	EACH	13.000	13.000
0008	204.0110	Removing Asphaltic Surface	SY	85.000	85.000
0010	204.0180	Removing Delineators and Markers	EACH	10.000	10.000
0012	205.0100	Excavation Common	CY	2,947.000	2,947.000
0014	208.0100	Borrow	CY	941.000	941.000
0016	213.0100	Finishing Roadway (project) 01. 3846-02-71	EACH	1.000	1.000
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,200.000	2,200.000
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,370.000	1,370.000
0022	312.0110	Select Crushed Material	TON	2,100.000	2,100.000
0024	325.0100	Pulverize and Relay	SY	25,430.000	25,430.000
0026	455.0605	Tack Coat	GAL	1,600.000	1,600.000
0028	460.2000	Incentive Density HMA Pavement	DOL	4,780.000	4,780.000
0030	460.5223	HMA Pavement 3 LT 58-28 S	TON	4,400.000	4,400.000
0032	460.5224	HMA Pavement 4 LT 58-28 S	TON	3,150.000	3,150.000
0034	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	22.000	22.000
0036	465.0315	Asphaltic Flumes	SY	13.000	13.000
0038	521.1015	Apron Endwalls for Culvert Pipe Steel 15-Inch	EACH	18.000	18.000
0040	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	8.000	8.000
0042	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	2.000	2.000
0044	522.2619	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	2.000	2.000
0046	524.0115	Culvert Pipe Salvaged 15-Inch	LF	78.000	78.000
0048	530.0115	Culvert Pipe Corrugated Polyethylene 15-Inch	LF	482.000	482.000
0050	530.0118	Culvert Pipe Corrugated Polyethylene 18-Inch	LF	204.000	204.000
0052	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	128.000	128.000
0054	606.0100	Riprap Light	CY	24.000	24.000
0056	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	66.000	66.000
0058	608.2419	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	149.000	149.000
0060	611.0612	Inlet Covers Type C	EACH	1.000	1.000
0062	611.2005	Manholes 5-FT Diameter	EACH	1.000	1.000
0064	619.1000	Mobilization	EACH	1.000	1.000
0066	624.0100	Water	MGAL	100.000	100.000
0068	625.0500	Salvaged Topsoil	SY	20,000.000	20,000.000
0070	627.0200	Mulching	SY	11,500.000	11,500.000
0072	628.1504	Silt Fence	LF	2,950.000	2,950.000
0074	628.1520	Silt Fence Maintenance	LF	2,950.000	2,950.000
0076	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0078	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0080	628.2004	Erosion Mat Class I Type B	SY	8,500.000	8,500.000
0082	628.7005	Inlet Protection Type A	EACH	1.000	1.000
0084	628.7010	Inlet Protection Type B	EACH	3.000	3.000
0086	628.7504	Temporary Ditch Checks	LF	300.000	300.000
0088	628.7555	Culvert Pipe Checks	EACH	17.000	17.000
0090	629.0210	Fertilizer Type B	CWT	15.000	15.000
0092	630.0120	Seeding Mixture No. 20	LB	800.000	800.000
0094	630.0140	Seeding Mixture No. 40	LB	200.000	200.000
0096	630.0200	Seeding Temporary	LB	550.000	550.000
0098	630.0500	Seed Water	MGAL	475.000	475.000

3846-02-71

Line	Item	Item Description	Unit	Total	Qty
0100	633.5200	Markers Culvert End	EACH	10.000	10.000
0102	634.0812	Posts Tubular Steel 2x2-Inch x 12-FT	EACH	2.000	2.000
0104	634.0814	Posts Tubular Steel 2x2-Inch x 14-FT	EACH	4.000	4.000
0106	634.0816	Posts Tubular Steel 2x2-Inch x 16-FT	EACH	2.000	2.000
0108	637.0620	Sign Flags Permanent Type II	EACH	6.000	6.000
0110	637.2210	Signs Type II Reflective H	SF	12.640	12.640
0112	637.2230	Signs Type II Reflective F	SF	20.000	20.000
0114	638.2102	Moving Signs Type II	EACH	3.000	3.000
0116	638.2602	Removing Signs Type II	EACH	5.000	5.000
0118	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0120	638.4000	Moving Small Sign Supports	EACH	1.000	1.000
0122	642.5401	Field Office Type D	EACH	1.000	1.000
0124	643.0300	Traffic Control Drums	DAY	3,500.000	3,500.000
0126	643.0420	Traffic Control Barricades Type III	DAY	1,000.000	1,000.000
0128	643.0705	Traffic Control Warning Lights Type A	DAY	1,100.000	1,100.000
0130	643.0900	Traffic Control Signs	DAY	5,000.000	5,000.000
0132	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0134	643.5000	Traffic Control	EACH	1.000	1.000
0136	645.0130	Geotextile Type R	SY	90.000	90.000
0138	645.0220	Geogrid Type SR	SY	3,500.000	3,500.000
0140	646.2020	Marking Line Epoxy 6-Inch	LF	31,365.000	31,365.000
0142	650.4000	Construction Staking Storm Sewer	EACH	5.000	5.000
0144	650.5000	Construction Staking Base	LF	7,900.000	7,900.000
0146	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	128.000	128.000
0148	650.6000	Construction Staking Pipe Culverts	EACH	13.000	13.000
0150	650.8000	Construction Staking Resurfacing Reference	LF	7,900.000	7,900.000
0152	650.9911	Construction Staking Supplemental Control (project) 01. 3846-02-71	EACH	1.000	1.000
0154	650.9920	Construction Staking Slope Stakes	LF	7,900.000	7,900.000
0156	690.0150	Sawing Asphalt	LF	695.000	695.000
0158	740.0440	Incentive IRI Ride	DOL	2,300.000	2,300.000
0160	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	350.000	350.000
0162	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	900.000	900.000
0164	SPV.0060	Special 01. Storm Sewer Pipe Reinforced Concrete Special Tee Fitting	EACH	2.000	2.000
0166	SPV.0060	Special 02. Section Corner Monuments	EACH	2.000	2.000

DIVISION	FROM/TO STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CUT (2)	205.0100 EXCAVATION COMMON (1) EBS EXCAVATION (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	REDUCED EBS IN FILL (9) FACTOR (15) 1.00	EXPANDED EBS BACKFILL (11) FACTOR (15) 1.00	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR (15) 1.00	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW	COMMENT
DIVISION 1														
ZENDA_RD	100+95.00/180+35.00	LT/RT	1,327	1,620	0	1,327	0	0	2,268	2,268	-941			
DIVISION 1 SUBTOTAL			1,327	1,620	0	1,327	0	0	2,268	2,268	-941	0	941	
GRAND TOTAL			1,327	1,620	0	1,327	0	0	2,268	2,268	-941	0	941	
TOTAL COMMON EXC 0010			2,947											

NOTES:

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

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

(3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

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

(9) REDUCED EBS IN FILL - EXCAVATED EBS MATERIAL IS USABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 1.00

(11) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. EBS BACKFILL FACTOR = 1.00. ITEM NUMBER 208.1100

(13) EXPANDED FILL FACTOR = 1.00

DEPENDING ON SELECTIONS: EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH - REDUCED EBS) * 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.

(15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

201 - CLEARING & GRUBBING

CATEGORY	STATION	OFFSET	201.0120 CLEARING ID	201.0220 GRUBBING ID
0010	109+03	RT	30	30
0010	158+79	RT	20	20
0010	179+27	RT	24	24
		TOTAL 0010	74	74

305-312 - BASE AGGREGATE

*BID ITEMS USED IN MULTIPLE TABLES

CATEGORY	STATION	TO	STATION	LOCATION	* 305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	624.0100 WATER MGAL	645.0220 GEOGRID TYPE SR SY
0010	100+61	-	180+12	SHOULDERS	1,750	-	-	35	-
0010	100+61	-	180+12	EBS	-	1,100	2,100	65	3,500
				TOTAL 0010	1,750	1,100	2,100	100	3,500

325-460 - HMA ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	325.0100 PULVERIZE AND RELAY SY	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON
0010	100+61	-	180+12	ZENDA ROAD	25,430	1,600	4,400	3,150
				TOTAL 0010	25,430	1,600	4,400	3,150

305-465 - DRIVEWAYS

*BID ITEMS USED IN MULTIPLE TABLES

CATEGORY	STATION	OFFSET	EXISTING MATERIAL	PROPOSED MATERIAL	204.0110 REMOVING ASPHALTIC SURFACE SY	* 305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	* 690.0150 SAWING ASPHALT LF
0010	103+20	LT	STONE	ASPHALT	-	-	29	10	-
0010	104+07	RT	STONE	STONE	-	41	-	-	-
0010	104+43	LT	STONE	STONE	-	16	-	-	-
0010	106+95	RT	STONE	STONE	-	20	-	-	-
0010	108+37	RT	STONE	STONE	-	10	-	-	-
0010	109+80	RT	STONE	STONE	-	31	-	-	-
0010	116+55	LT	STONE	STONE	-	17	-	-	-
0010	117+50	RT	STONE	STONE	-	33	-	-	-
0010	117+60	LT	STONE	STONE	-	26	-	-	-
0010	119+00	LT	STONE	STONE	-	42	-	-	-
0010	120+00	LT	STONE	STONE	-	41	-	-	-
0010	128+14	RT	STONE	STONE	-	27	-	-	-
0010	134+75	LT	STONE	STONE	-	27	-	-	-
0010	135+55	RT	ASPHALT	ASPHALT	39	-	14	5	24
0010	140+70	LT	STONE	STONE	-	15	-	-	-
0010	146+56	RT	STONE	STONE	-	11	-	-	-
0010	150+87	LT	STONE	STONE	-	13	-	-	-
0010	153+50	RT	STONE	STONE	-	15	-	-	-
0010	154+50	LT	STONE	STONE	-	28	-	-	-
0010	159+28	RT	STONE	STONE	-	12	-	-	-
0010	163+81	RT	STONE	STONE	-	10			
0010	168+11	RT	ASPHALT	ASPHALT	24	-	10	4	17
0010	175+15	RT	STONE	STONE	-	15	-	-	-
0010	176+58	RT	ASPHALT	ASPHALT	22	-	7	3	15
				TOTAL 0010	85	450	60	22	56

601 - CONCRETE CURB

*BID ITEMS USED IN MULTIPLE TABLES

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0315 ASPHALTIC FLUMES SY	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF
0010	179+50	-	179+75	LT	ZENDA/LINTON	16	7	52
0010	179+50	-	180+09	RT	ZENDA/LINTON	24	6	76
					TOTAL 0010	40	13	128

646 - PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	LOCATION	646.2020 MARKING LINE EPOXY 6-INCH YELLOW LF	646.2020 MARKING LINE EPOXY 6-INCH WHITE LF
0010	100+61	-	180+12	ZENDA ROAD	15,790	15,575
				TOTAL 0010	31,365	

690 - SAWCUTS

*BID ITEMS USED IN MULTIPLE TABLES

CATEGORY	STATION	LOCATION	* 690.0150 SAWING ASPHALT LF
0010	100+94	ZENDA/CTH B	170
0010	101+67	REMOVING FLUME	45
0010	103+44	REMOVING FLUME	32
0010	179+95	ZENDA/LINTON	128
		TOTAL 0010	375

3

521 - CULVERTS

*BID ITEMS USED IN MULTIPLE TABLES

CATEGORY	CULVERT NUMBER	INLET ENDWALL	INLET ENDWALL STATION	OUTLET ENDWALL	OUTLET ENDWALL STATION	203.0100 * REMOVING SMALL PIPE CULVERTS EACH	204.0180 * REMOVING DELINEATORS AND MARKERS EACH	305.0120 * BASE AGGREGATE DENSE 1 1/4-INCH TON	521.1015 APRON ENDWALLS FOR CULVERT PIPE STEEL 15-INCH EACH	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	524.0115 CULVERT PIPE SALVAGED 15-INCH LF	530.0115 * CULVERT PIPE CORRUGATED POLYETHYLENE 15-INCH LF	530.0118 * CULVERT PIPE CORRUGATED POLYETHYLENE 18-INCH LF	606.0100 * RIPRAP LIGHT CY	628.7555 * CULVERT PIPE CHECKS EACH	633.5200 * MARKERS CULVERT END EACH	645.0130 * GEOTEXTILE TYPE R SY	690.0150 * SAWING ASPHALT LF	SLOPE	INVERT ELEVATIONS INLET	INVERT ELEVATIONS OUTLET
0010	1L	1.1-L	103+40	1.0-L	103+00	1	-	-	2	-	-	40	-	-	1	-	-	-	3.00%	1005.65	1004.45
0010	2L	2.1-L	104+65	2.0-L	104+15	1	-	-	2	-	-	50	-	-	1	-	-	-	2.50%	1009.15	1007.90
0010	1R	1.1-R	107+25	1.0-R	106+60	1	-	-	2	-	-	66	-	-	1	-	-	-	2.40%	1016.46	1014.90
0010	2R	2.1-R	108+55	2.0-R	108+15	1	-	-	2	-	-	40	-	-	1	-	-	-	2.20%	1019.58	1018.70
0010	3R	3.1-R	110+20	3.0-R	109+35	1	-	-	2	-	-	86	-	-	1	-	-	-	2.30%	1023.60	1021.65
0010	1	1.1	113+56	1.0	113+56	1	2	21	-	2	-	-	52	-	1	2	-	45	0.42%	1029.93	1029.71
0010	4R	4.1-R	127+90	4.0-R	128+40	1	-	-	2	-	-	50	-	-	1	-	-	-	0.50%	1029.30	1029.05
0010	2	2.1	128+45	2.0	128+45	1	2	21	-	2	-	-	50	1.5	1	2	6	46	0.50%	1028.80	1028.55
0010	5R	5.1-R	146+82	5.0-R	146+32	1	-	-	2	-	-	50	-	-	1	-	-	-	0.50%	1033.89	1033.64
0010	3L	3.1-L	151+12	3.0-L	150+62	1	-	-	2	-	-	50	-	-	1	-	-	-	0.52%	1037.07	1036.81
0010	3	3.1	156+30	3.0	156+30	-	2	21	-	2	39	-	52	1.0	1	2	3	45	0.23%	1037.43	1037.31
0010	6R	6.1-R	159+53	6.0-R	159+03	1	-	-	2	-	-	50	-	-	1	-	-	-	2.60%	1043.20	1041.90
0010	4	4.1	173+15	4.0	173+15	-	2	21	-	2	39	-	50	1.5	1	2	6	44	1.40%	1047.70	1047.00
0010	-	-	179+67	-	179+98	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					TOTAL 0010	13	10	84	18	8	78	482	204	4	13	8	15	180			

625-630 - LANDSCAPING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.2004 EROSION MAT CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
0010	100+61	-	180+12	ZENDA ROAD	18,500	10,400	8,100	12	725	125	500	425
0010	UNDISTRIBUTED			ZENDA ROAD	1,500	1,100	400	3	75	75	50	50
				TOTAL 0010	20,000	11,500	8,500	15	800	200	550	475

- USE SEED MIXTURE NO. 20 FOR ALL DITCHES AND RESTORATION NOT IN RESIDENTIAL LAWNS
- USE SEED MIXTURE NO. 40 FOR ALL DITCHES AND RESTORATION IN RESIDENTIAL LAWNS

628 - EROSION CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.7504 TEMPORARY DITCH CHECKS LF
0010	100+61	-	180+12	ZENDA ROAD	2,950	2,950	-	-	300
0010	UNDISTRIBUTED			ZENDA ROAD	-	-	3	3	-
				TOTAL 0010	2,950	2,950	3	3	300

3

522-611 - STORM STRUCTURES

*BID ITEMS USED IN MULTIPLE TABLES

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET	522.1018 * APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.2619 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19X30-INCH EACH	606.0100 * RIPRAP LIGHT CY	611.0612 INLET COVERS TYPE C EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7555 * CULVERT PIPE CHECKS EACH	645.0130 * GEOTEXTILE TYPE R SY	SPV.0060.01 SPECIAL (01. STORM SEWER PIPE REINFORCED CONCRETE SPECIAL TEE FITTING) EACH	[1] INVERT ELEVATION	[2] RIM ELEVATION	[3] BOTTOM OF STRUCTURE ELEVATION	[4] DEPTH (FT)
0010	Existing	101+66	RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-
0010	Existing	103+33	RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-
0010	5.0	180+08	RT	-	1	3	-	-	-	-	-	11	-	1,029.87	-	-	-
0010	5.1	179+88	RT	-	-	-	-	-	-	-	-	-	1	1,030.12	-	-	-
0010	5.2	176+76	LT	-	-	-	-	-	-	-	-	-	1	1,030.35	-	-	-
0010	5.3	179+69	LT	-	-	17	1	1	1	1	-	64	-	-	1,034.00	1,030.35	2.40
0010	5.4	179+60	LT	-	1	-	-	-	-	-	2	-	-	1,033.13	-	-	-
0010	5.5	179+42	LT	1	-	-	-	-	-	-	1	-	-	1,032.60	-	-	-
0010	5.6	179+47	RT	1	-	-	-	-	-	-	1	-	-	1,032.10	-	-	-
			TOTAL 0010	2	2	20	1	1	1	3	4	75	2				

[1] INVERT ELEVATION = END OF PIPE INVERT ELEVATION

[2] RIM ELEVATION IS AT INLET CENTER OF STRUCTURE

[3] BOTTOM OF STRUCTURE ELEVATION = LOWEST PIPE INVERT ELEVATION - LOWEST PIPE'S WALL THICKNESS.

[4] DEPTH = RIM ELEVATION - BOTTOM OF STRUCTURE ELEVATION - CASTING HEIGHT AT FLOWLINE - 6 INCH ADJUSTMENT RING HEIGHT

608 - STORM SEWER PIPES

*BID ITEMS USED IN MULTIPLE TABLES

CATEGORY	INLET STRUCTURE	TO	OUTLET STRUCTURE	305.0120 * BASE AGGREGATE DENSE 1 1/4-INCH TON	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.2419 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 19X30-INCH LF	633.5200 * MARKERS CULVERT END EACH	690.0150 * SAWING ASPHALT LF	SLOPE	INVERT ELEVATIONS INLET	INVERT ELEVATIONS OUTLET
0010	5.1	-	5.0	24	-	50	1	11	0.51%	1,030.12	1,029.87
0010	5.2	-	5.1	50	-	46	-	41	0.50%	1,030.35	1,030.12
0010	5.3	-	5.2	-	-	27	-	-	0.55%	1,030.50	1,030.35
0010	5.4	-	5.3	-	-	26	1	-	10.00%	1,033.13	1,030.50
0010	5.5	-	5.2	-	24	-	-	-	6.87%	1,032.00	1,030.35
0010	5.6	-	5.1	12	42	-	-	32	4.92%	1,032.10	1,030.12
			TOTAL 0010	86	66	149	2	84			

634-638 - SIGNS

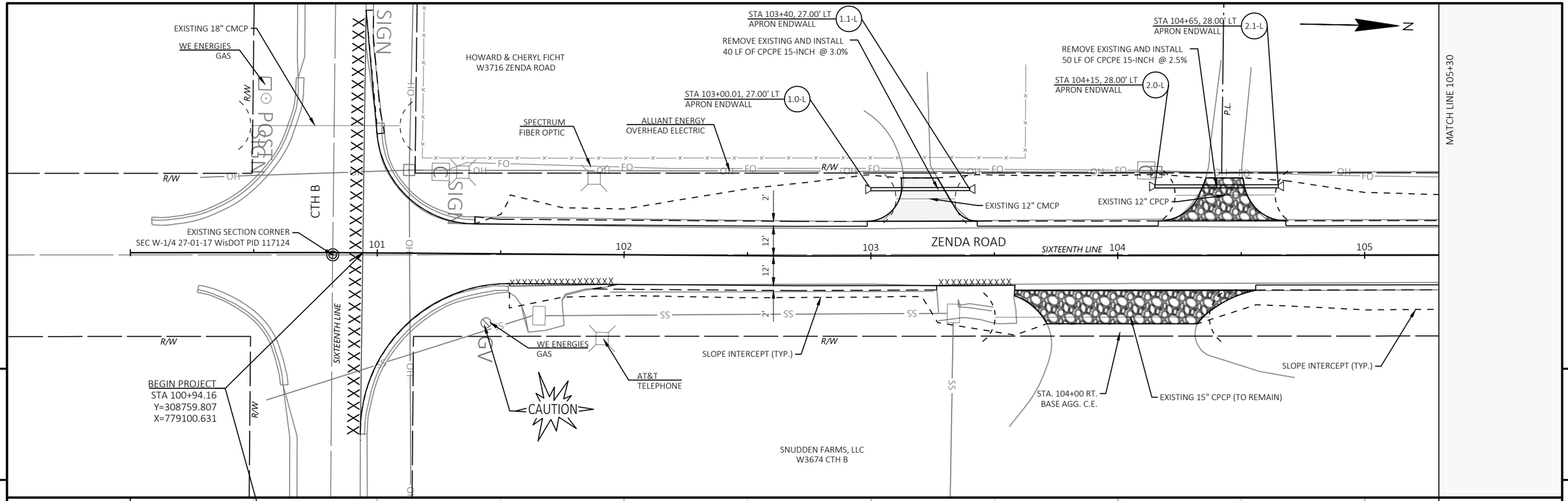
CATEGORY	PLAN SIGN NUMBER (SHEET-NO)	STATION	OFFSET	WISDOT SIGN NUMBER	SIZE (INXIN)	LOCATION	634.0812 POSTS TUBULAR STEEL 2X2-INCH X 12-FT EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	634.0816 POSTS TUBULAR STEEL 2X2-INCH X 16-FT EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	01-01	101+39	LT	R1-1	30X30	ZENDA	1	-	-	2	5.18	-	-	1	1	-	-
0010	01-02	107+87	LT	W3-1	36X36	ZENDA	1	1	-	-	-	9.00	-	1	1	-	-
0010	06-01	173+18	RT	W3-1	36X36	ZENDA	-	-	2	2	-	9.00	-	1	1	-	SAME POSTS AS 06-02
0010	06-02	173+18	RT	-	36X36	ZENDA	-	-	-	-	-	-	1	-	-	-	"DANGEROUS INTERSECTION" SAME POSTS AS 06-01
0010	06-03	177+55	RT	-	-	ZENDA	-	1	-	-	-	-	2	-	-	1	"ENTERING GENEVA LAKE WATERSHED"
0010	06-04	179+60	RT	R1-1	30X30	ZENDA	-	2	-	2	7.46	-	-	1	1	-	-
0010	06-05	179+60	RT	W4-4P	24X12	ZENDA	-	-	-	-	-	2.00	-	1	-	-	SAME POST AS 06-04
						TOTAL 0010	2	4	2	6	12.64	20.00	3	5	4	1	

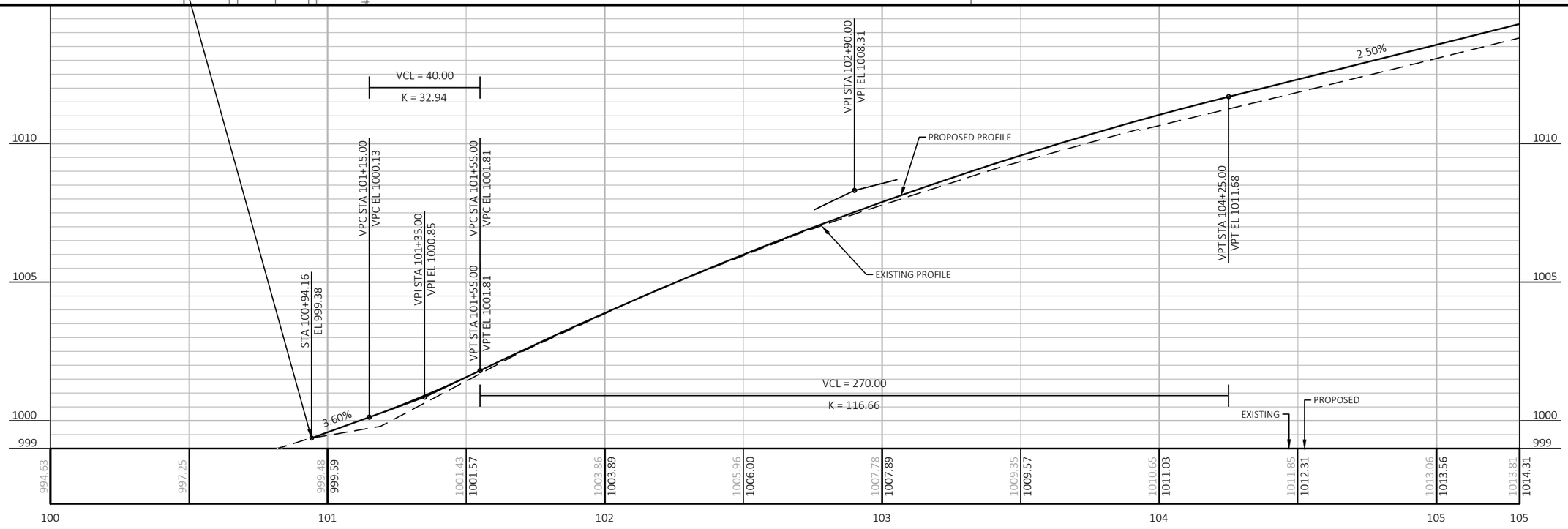
643 - TRAFFIC CONTROL

CATEGORY	PHASE	DESCRIPTION	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	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	643.5000 TRAFFIC CONTROL EACH
0010	PRE-CONSTRUCTION	PCMS	7	70	-	-	-	14	-
0010	CONSTRUCTION	ROAD CLOSURE/DETOUR	120	3,000	720	960	4,440	-	-
0010	-	UNDISTRIBUTED	-	430	280	140	560	-	1
			TOTAL 0010	3,500	1,000	1,100	5,000	14	1

650 - CONSTRUCTION STAKING

CATEGORY	LOCATION	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 3846-02-71) EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	SPV.0060.02 SPECIAL (02. SECTION CORNER MONUMENTS) EACH
0010	ENTIRE PROJECT	5	7,900	128	13	7,900	1	7,900	2
	TOTAL 0010	5	7,900	128	13	7,900	1	7,900	2





PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN AND PROFILE: ZENDA ROAD	SHEET 44 E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-050101-PP.DWG
LAYOUT NAME - 01
PLOT DATE : 10/23/2026 1:50 PM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

SNUDDEN FARMS, LLC
IL 2800001

N

MATCH LINE 105+30

MATCH LINE 110+80

SPECTRUM
FIBER OPTIC

ALLIANT ENERGY
OVERHEAD ELECTRIC

SLOPE INTERCEPT (TYP.)

ALLIANT ENERGY
UNDERGROUND ELECTRIC

OH FO

R/W

SIGN

2'

12'

12'

2'

106 107 108 109 110

SIXTEENTH LINE

ZENDA ROAD

POST

AT&T
TELEPHONE

EXISTING 15" CPCP

EXISTING 12" CPCP

EXISTING 15" CPCP

STA 106+60, 22.00' RT
APRON ENDWALL
1.0-R

REMOVE EXISTING AND INSTALL
65 LF OF CPCPE 15-INCH @ 2.4%

STA 107+25, 22.00' RT
APRON ENDWALL
1.1-R

SNUDDEN FARMS, LLC
N740 ZENDA ROAD

STA 108+15, 22.00' RT
APRON ENDWALL
2.0-R

REMOVE EXISTING AND INSTALL
40 LF OF CPCPE 15-INCH @ 2.2%

STA 108+55, 22.00' RT
APRON ENDWALL
2.1-R

SNUDDEN FARMS, LLC
N754 ZENDA ROAD

R/W

REMOVE TREE (TYP.)

STA 109+35, 24.00' RT
APRON ENDWALL
3.0-R

REMOVE EXISTING AND INSTALL
85 LF OF CPCPE 15-INCH @ 2.3%

STA 110+20, 24.00' RT
APRON ENDWALL
3.1-R

SNUDDEN FARMS, LLC
N764 ZENDA ROAD

5

5

1025
1020
1015
1012

PROPOSED PROFILE

2.50%

EXISTING PROFILE

VPC STA 109+75.00
VPC EL 1025.43

VCL = 300.00
K = 333.33

EXISTING
PROPOSED

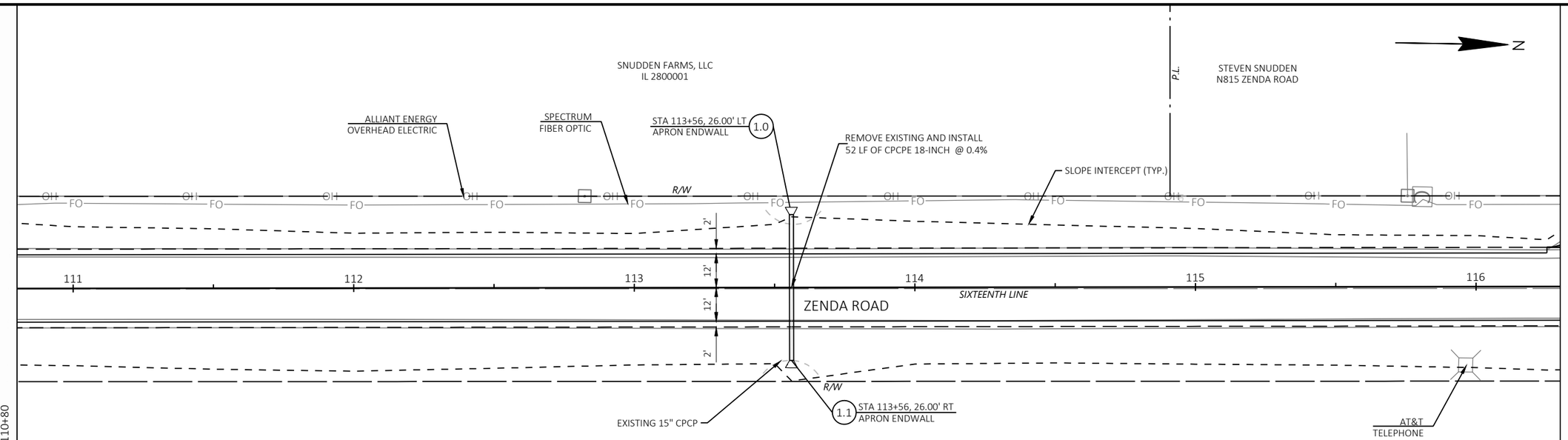
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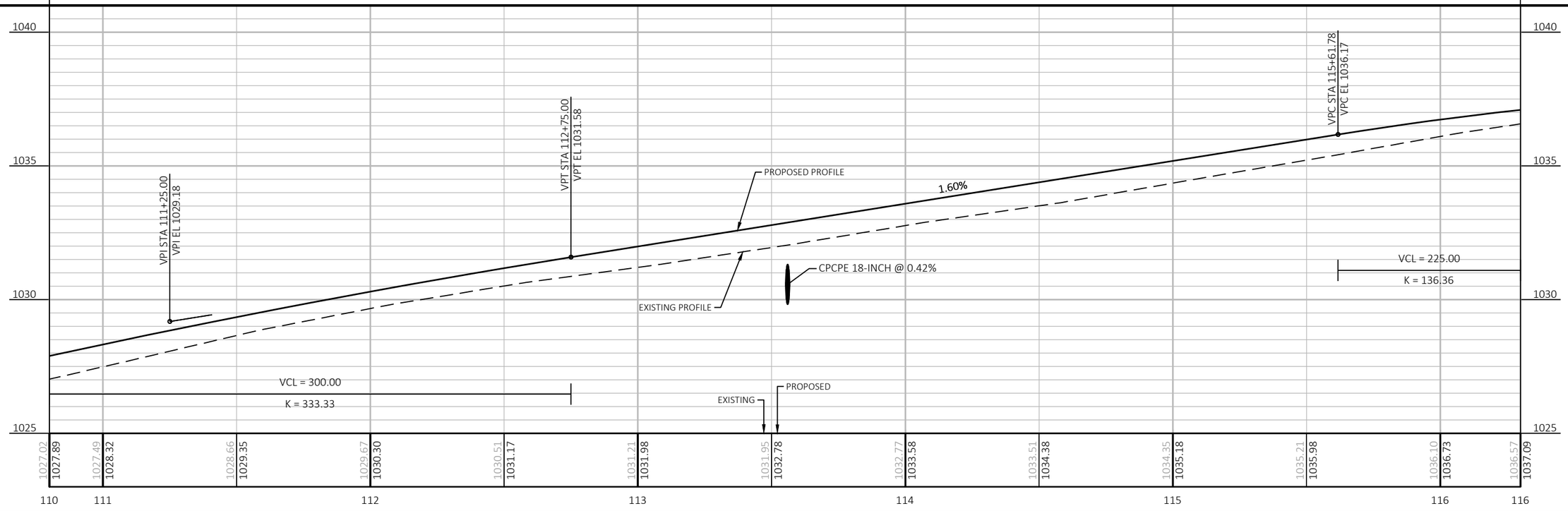
105 106 107 108 109 110 110

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN AND PROFILE: ZENDA ROAD	SHEET 45	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-050101-PP.DWG
LAYOUT NAME - 02

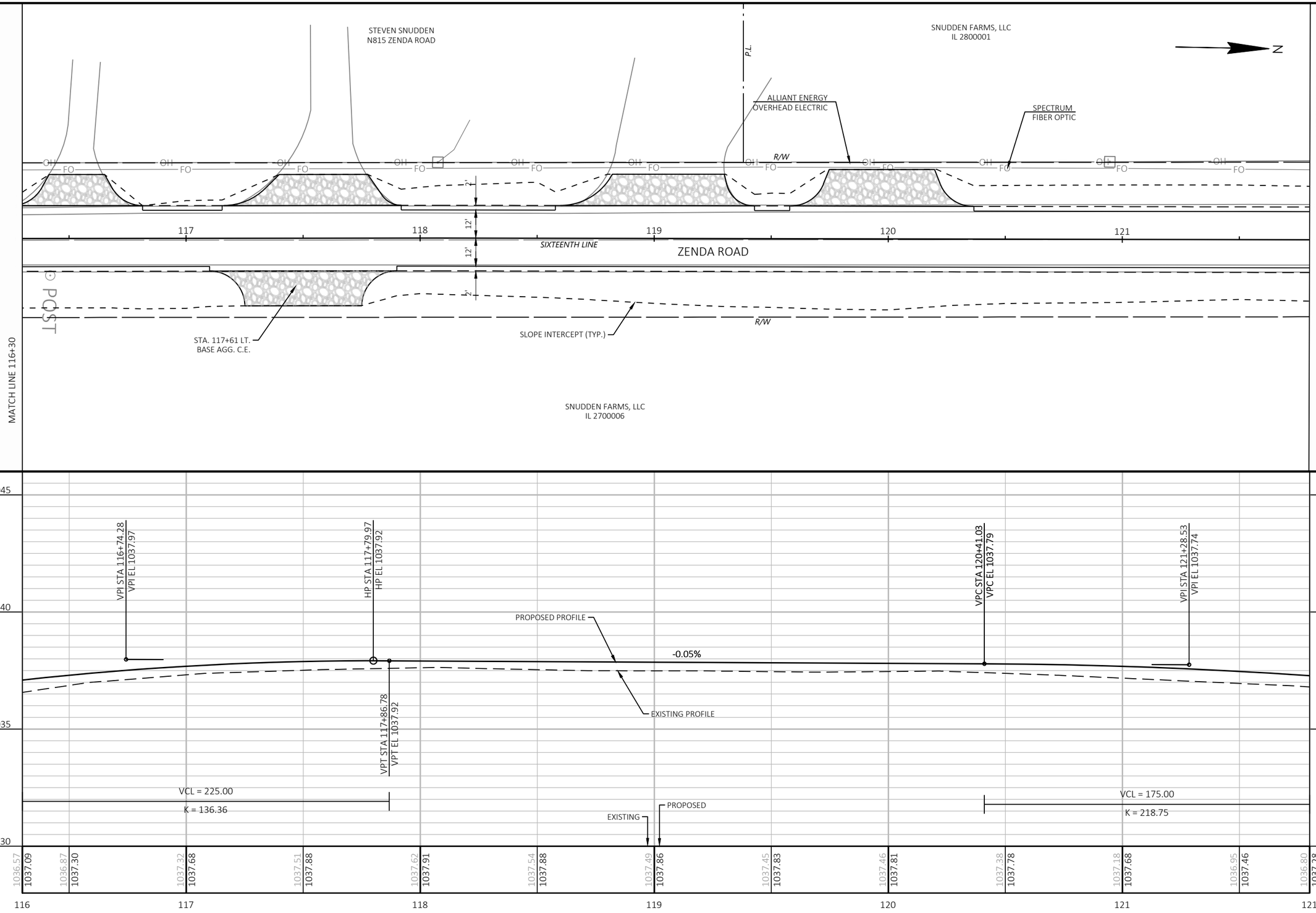
PLOT DATE : 10/23/2026 1:51 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:40 FT





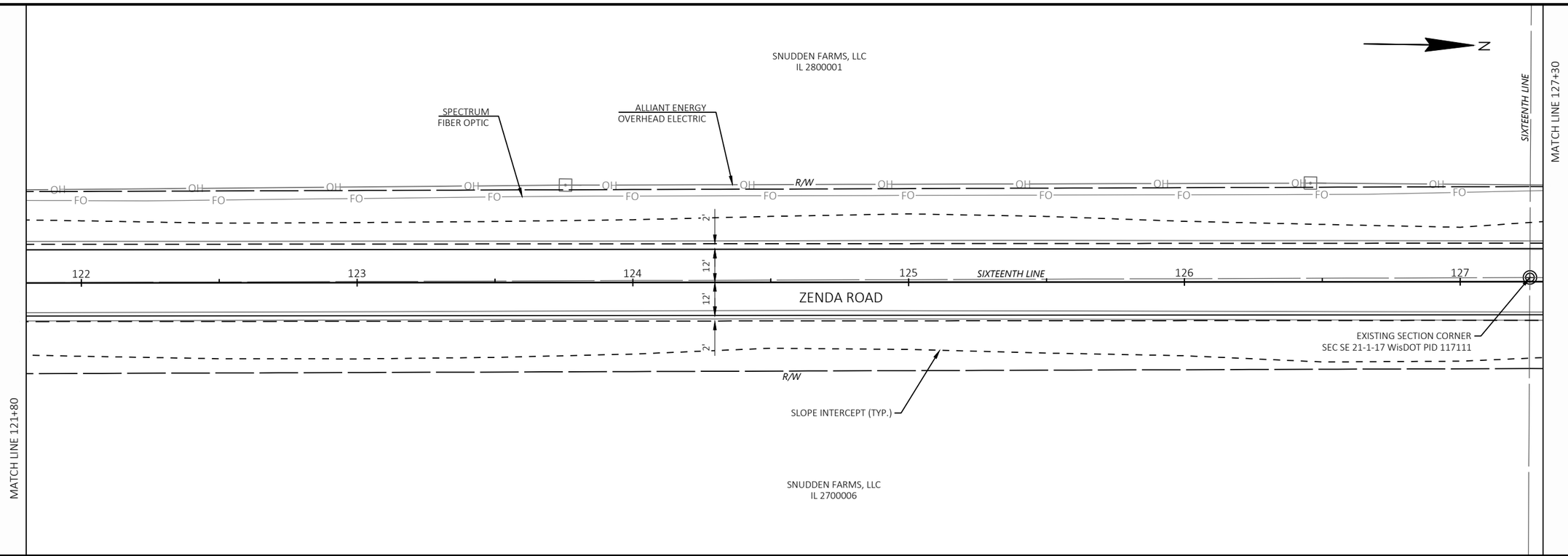
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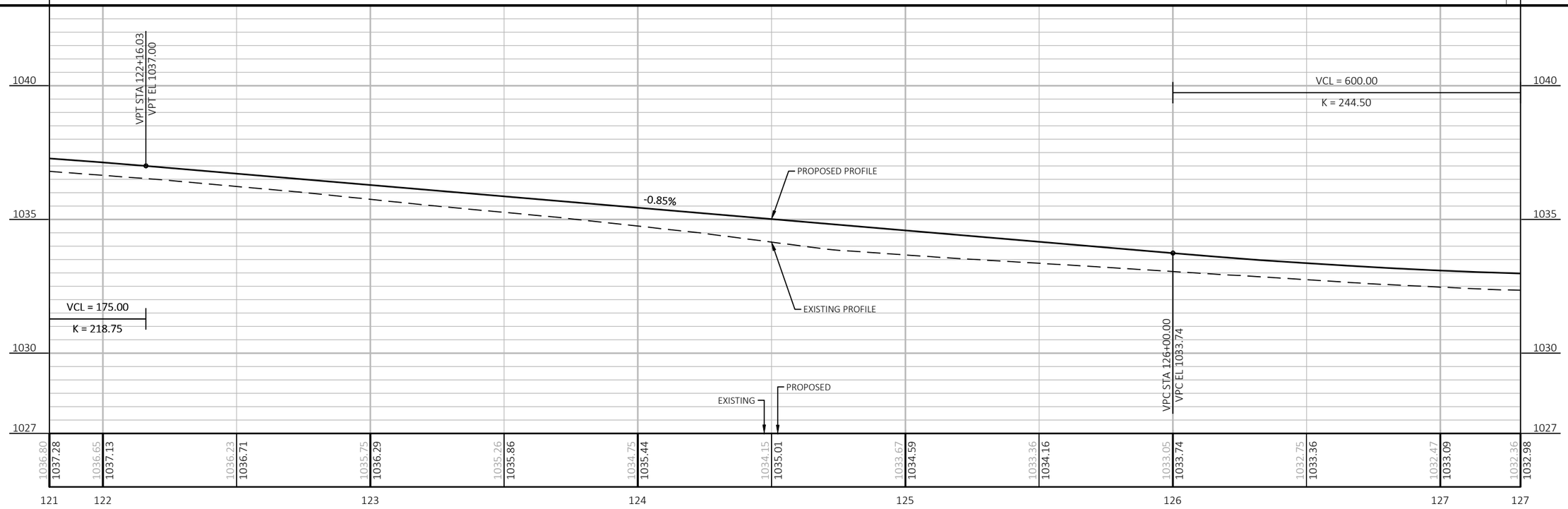
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LAYOUT NAME - 03
PLOT DATE : 10/23/2026 1:53 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:40 FT



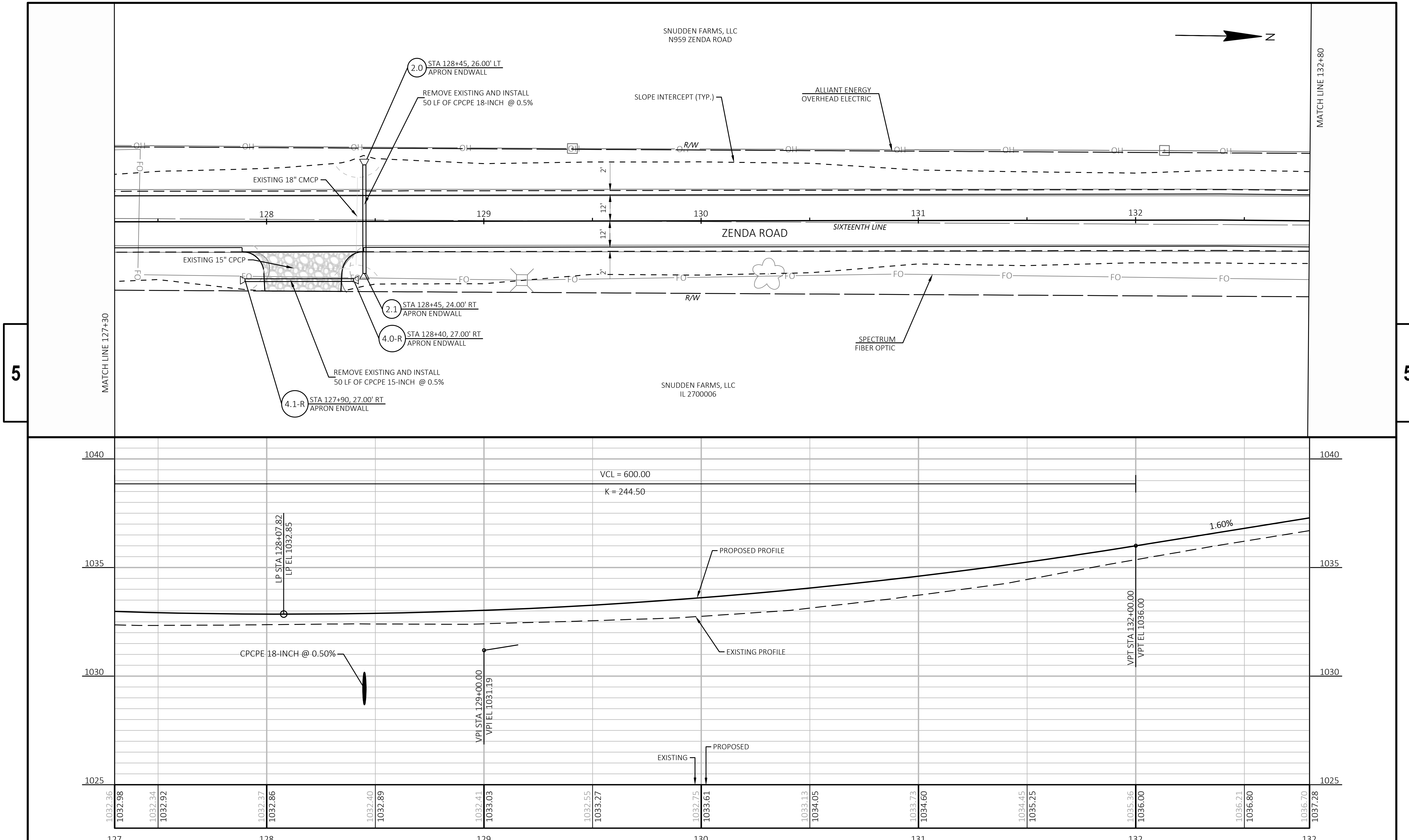
PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN AND PROFILE: ZENDA ROAD	SHEET 47	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-050101-PP.DWG
LAYOUT NAME - 04
PLOT DATE : 10/23/2026 1:50 PM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT





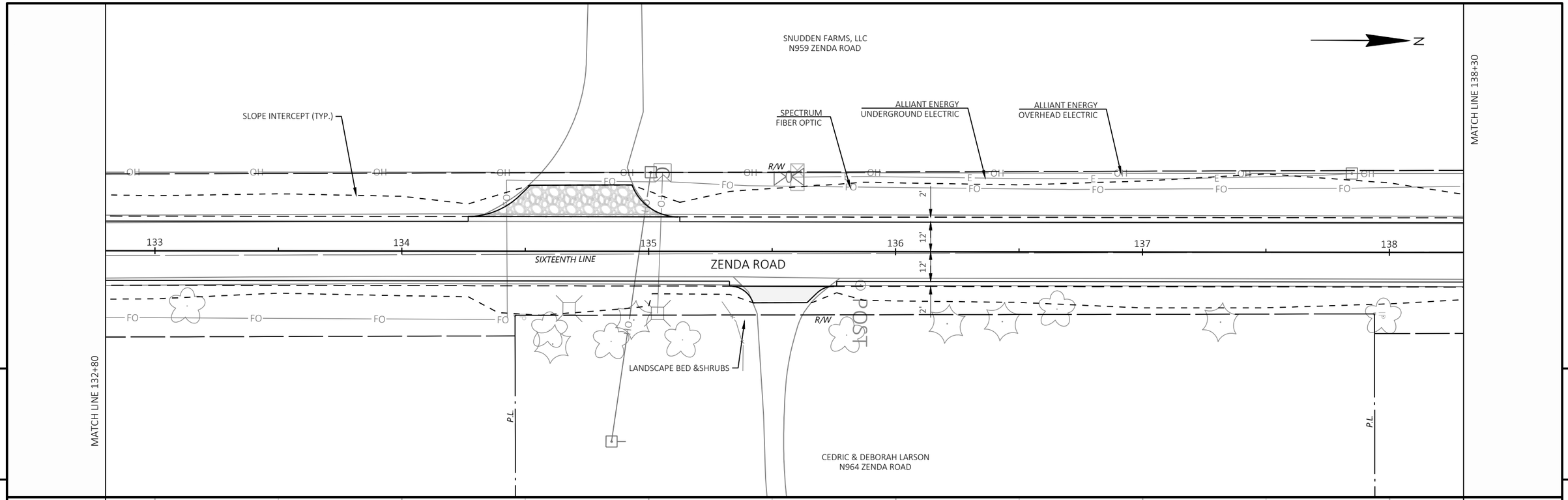
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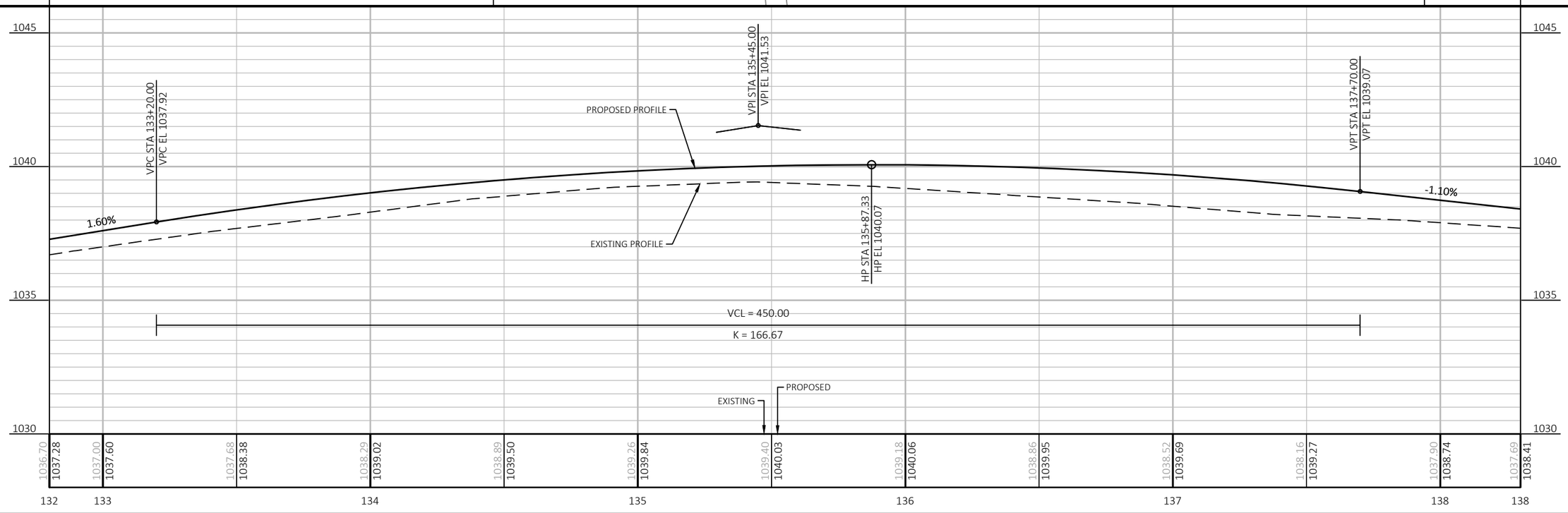


PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN AND PROFILE: ZENDA ROAD	SHEET 49	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-050101-PP.DWG
LAYOUT NAME - 06
PLOT DATE : 10/23/2026 1:51 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN AND PROFILE: ZENDA ROAD	SHEET 50	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-050101-PP.DWG
LAYOUT NAME - 07
PLOT DATE : 10/23/2026 1:52 PM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

SNUDDEN FARMS, LLC
N959 ZENDA ROAD

SNUDDEN FARMS, LLC
IL 2100015

N

P.I.

SPECTRUM
FIBER OPTIC

ALLIANT ENERGY
OVERHEAD ELECTRIC

R/W

OH — FO — EO

2'

12'

12'

2'

R/W

139 140 141 SIXTEENTH LINE 142 143

ZENDA ROAD

POST

SLOPE INTERCEPT (TYP.)

AT&T
TELEPHONE

MATCH LINE 138+30

MATCH LINE 143+80

SNUDDEN FARMS, LLC
IL 2700006

5

5

1045
1040
1035
1030

VCL = 180.00
K = 120.32

VPC STA 140+85.00
VPC EL 1035.61

VPI STA 141+75.00
VPI EL 1034.63

LP STA 142+16.87
LP EL 1034.89

VPT STA 142+65.00
VPT EL 1034.99

PROPOSED PROFILE

-1.10%

0.40%

EXISTING PROFILE

EXISTING

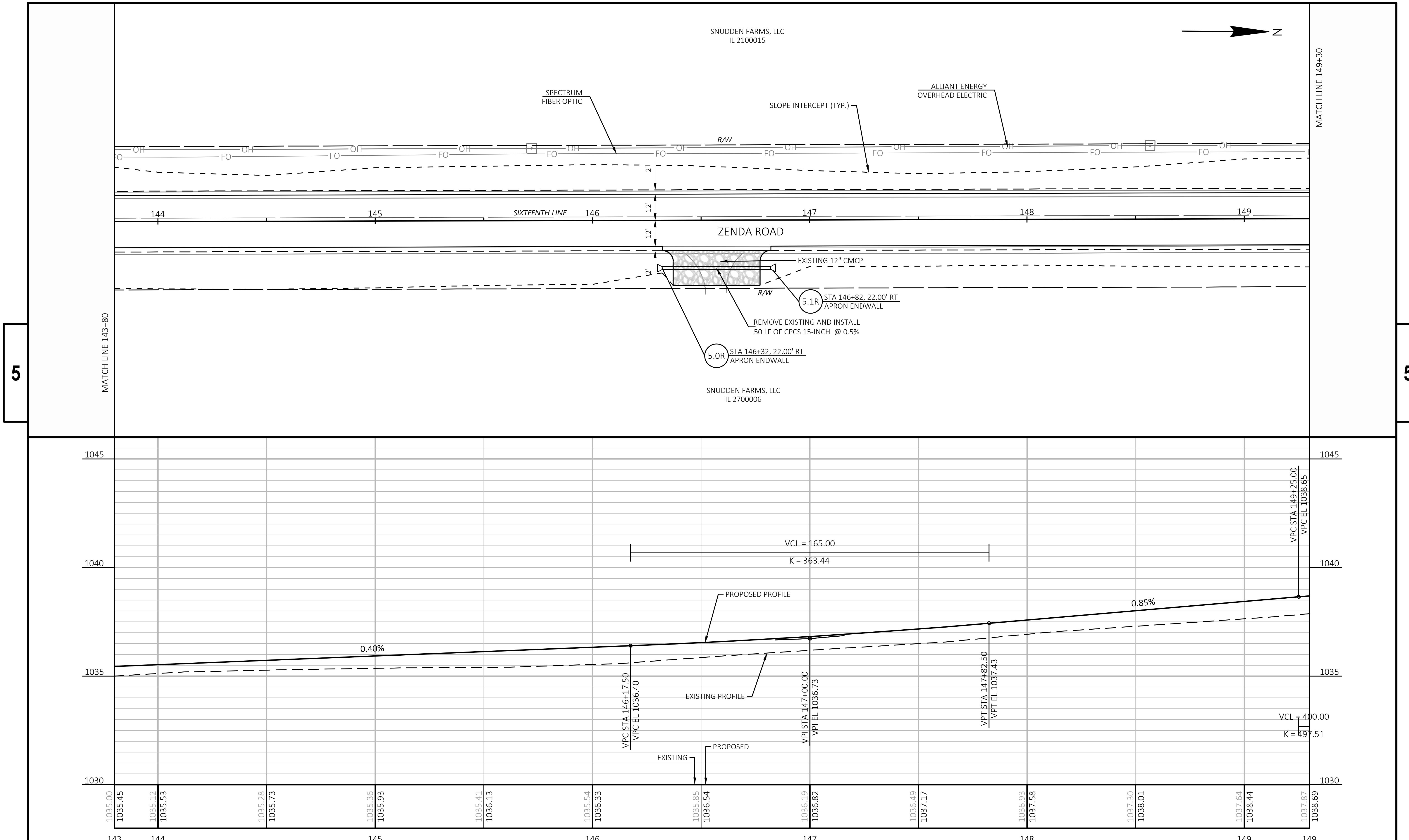
PROPOSED

1037.69	1037.54	1037.06	1036.51	1035.95	1035.37	1034.79	1034.40	1034.19	1034.37	1034.58	1034.83	1035.00
1038.41	1038.19	1037.64	1037.09	1036.55	1036.00	1035.46	1035.08	1034.90	1034.94	1035.13	1035.33	1035.45

138 139 140 141 142 143 143

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN AND PROFILE: ZENDA ROAD	SHEET 51	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-050101-PP.DWG
LAYOUT NAME - 08
PLOT DATE : 10/23/2026 1:55 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

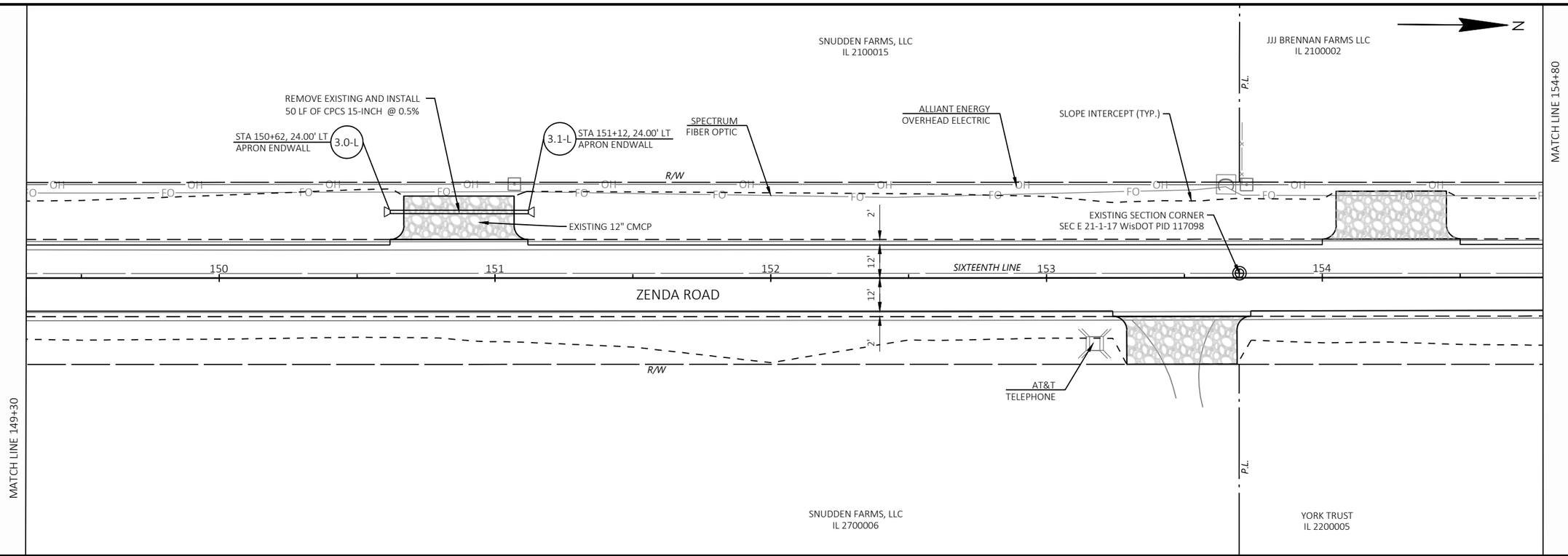


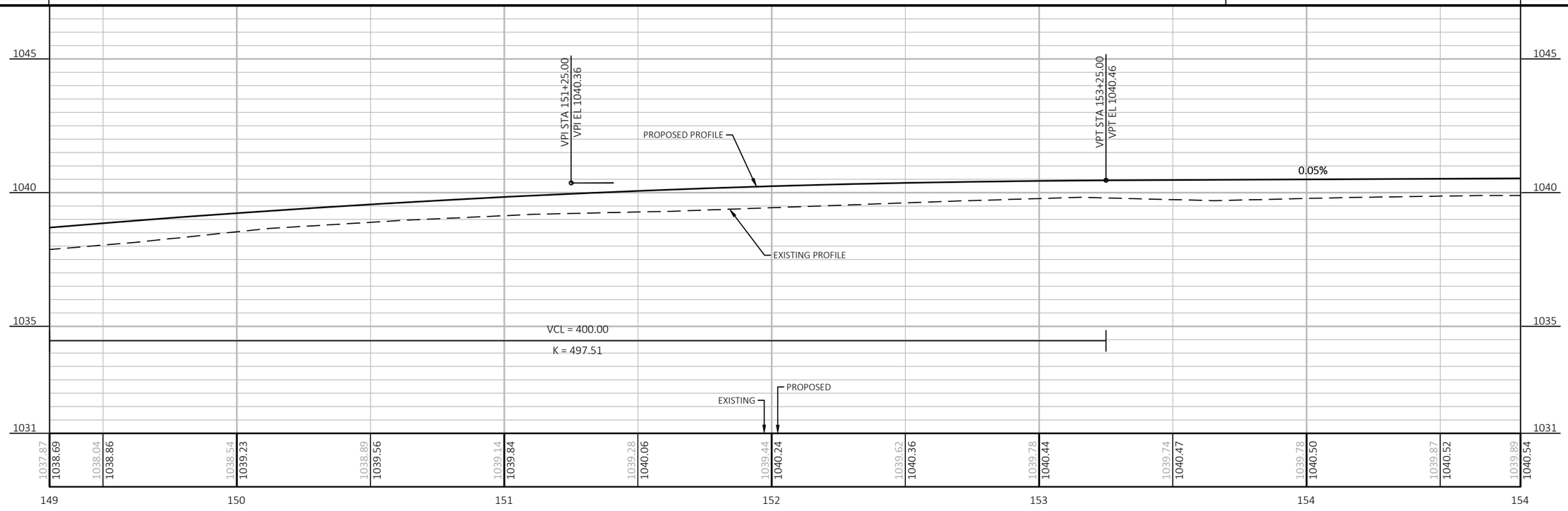
PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN AND PROFILE: ZENDA ROAD	SHEET 52	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-050101-PP.DWG
LAYOUT NAME - 09

PLOT DATE : 10/23/2026 1:50 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:40 FT

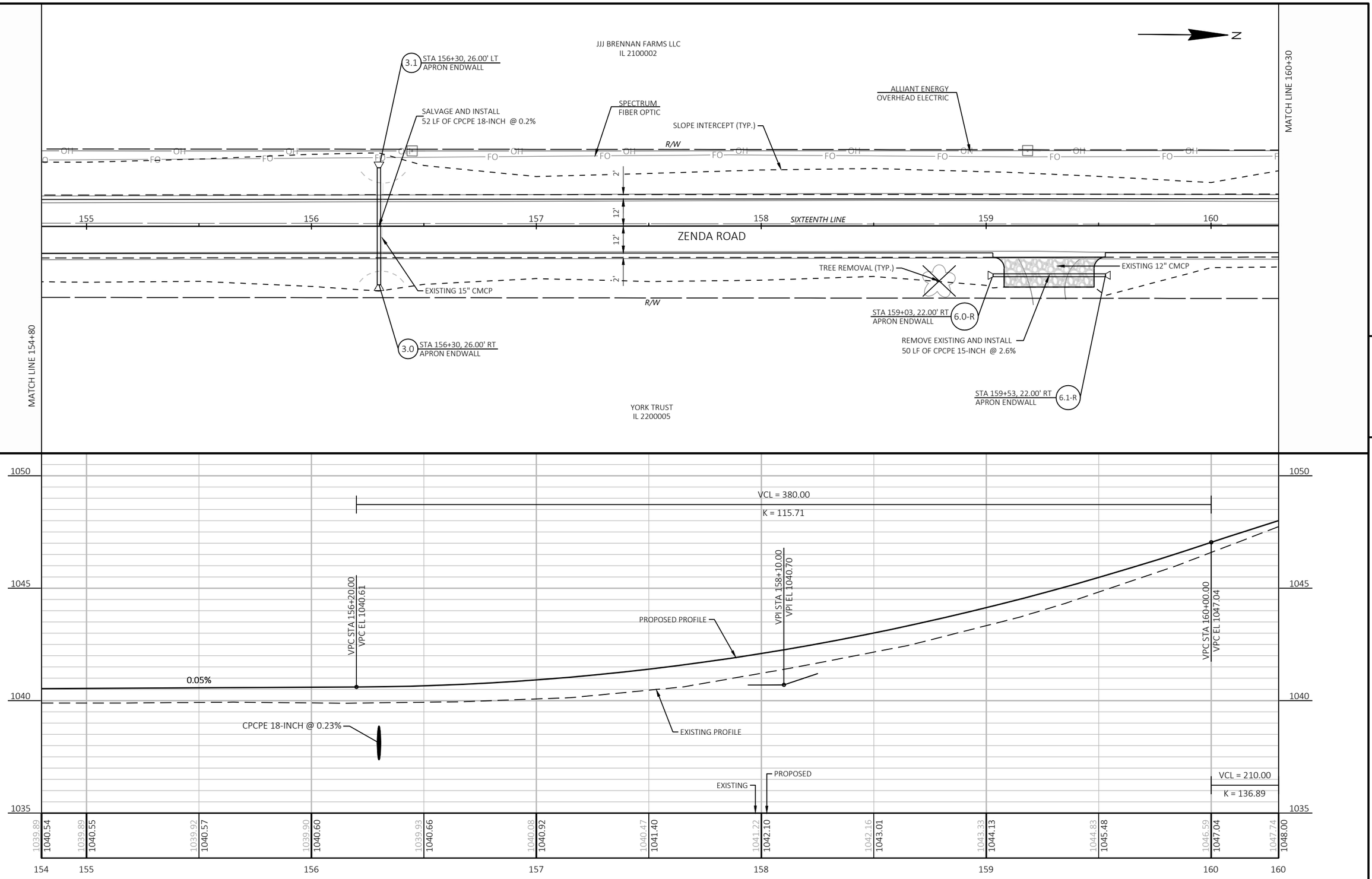
WISDOT/CADDS SHEET 44





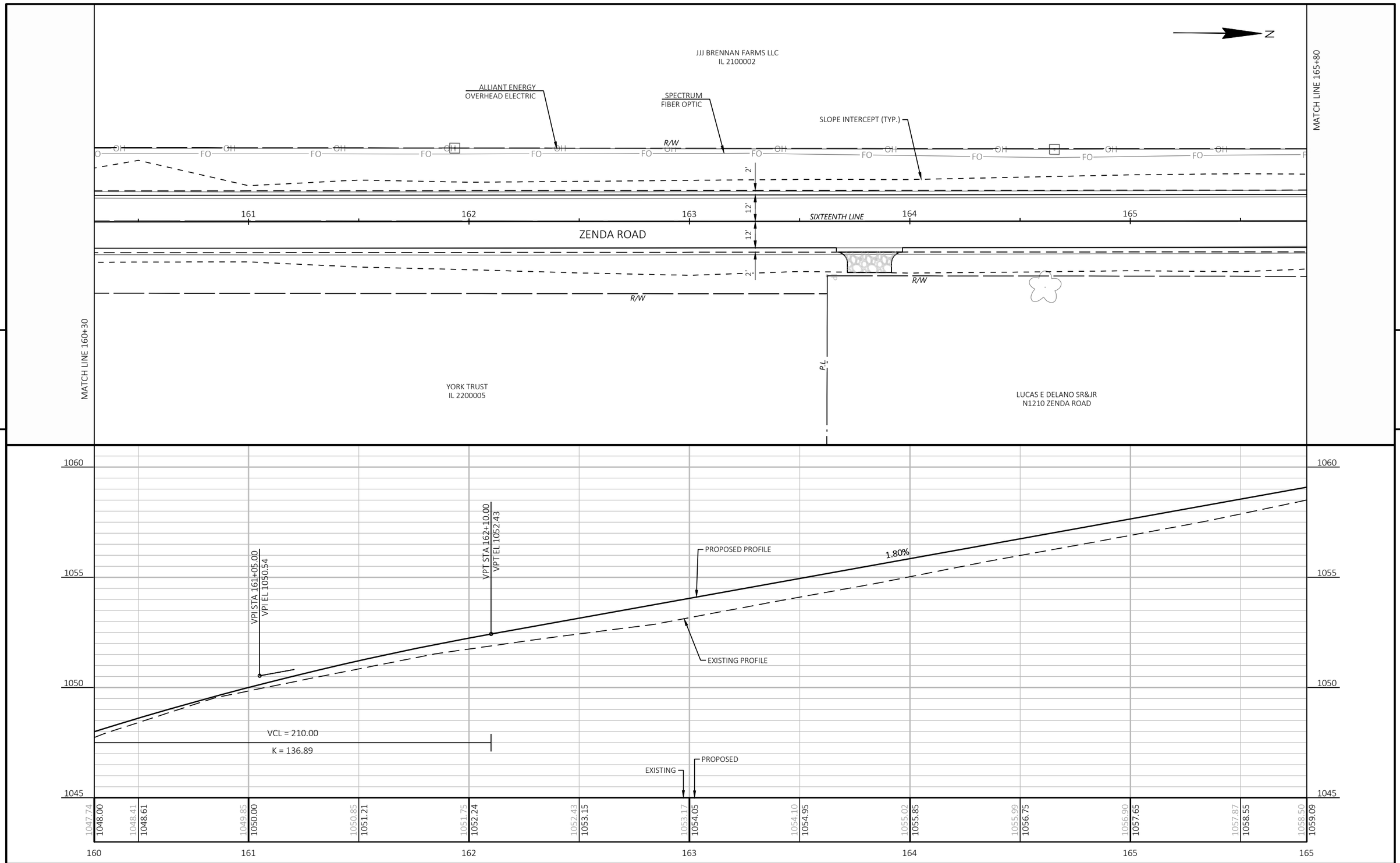
PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN AND PROFILE: ZENDA ROAD	SHEET 53	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-050101-PP.DWG
LAYOUT NAME - 10
PLOT DATE : 10/23/2026 1:54 PM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN AND PROFILE: ZENDA ROAD	SHEET 54	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-050101-PP.DWG
LAYOUT NAME - 11
PLOT DATE : 10/23/2026 1:55 PM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN AND PROFILE: ZENDA ROAD	SHEET 55	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-050101-PP.DWG
LAYOUT NAME - 12

PLOT DATE : 10/23/2026 1:51 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

JJJ BRENNAN FARMS LLC
IL 2100002

N

MATCH LINE 171+30

MATCH LINE 165+80

ALLIANT ENERGY
OVERHEAD ELECTRIC

SPECTRUM
FIBER OPTIC

SLOPE INTERCEPT (TYP.)

R/W

166 167 168 169 SIXTEENTH LINE 170 171

ZENDA ROAD

12' 12' 2' 2'

WE ENERGIES
GAS

AT&T
TELEPHONE

R/W

POST

AT&T
TELEPHONE

P.L.

LUCAS E DELANO SR&JR
N1210 ZENDA ROAD

YORK TRUST
IL 2200005

5

5

1065
1060
1055
1050

PROPOSED PROFILE

EXISTING PROFILE

1.80%

-3.15%

VPC STA 166+75.00
VPC EL 1060.80

HP STA 167+65.91
HP EL 1061.61

VPI STA 168+00.00
VPI EL 1063.05

VPT STA 169+25.00
VPT EL 1059.11

VPC STA 169+97.50
VPC EL 1056.82

VCL = 250.00
K = 50.51

VCL = 435.00
K = 115.97

EXISTING
PROPOSED

165	166	167	168	169	170	171	171
1058.50	1058.86	1059.79	1060.66	1061.14	1060.96	1060.12	1058.97	1057.58	1055.97	1054.30	1052.81	1052.06
1059.09	1059.45	1060.35	1061.18	1061.59	1061.50	1060.91	1059.83	1058.32	1056.75	1055.29	1054.05	1053.41

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN AND PROFILE: ZENDA ROAD	SHEET 56	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-050101-PP.DWG
LAYOUT NAME - 13
PLOT DATE : 10/23/2026 1:55 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

JJJ BRENNAN FARMS LLC
IL 2100002

N

MATCH LINE 171+30

MATCH LINE 176+80

4.1 STA 173+15, 24.00' LT
APRON ENDWALL

SALVAGE AND INSTALL
50 LF OF CPCPE 18-INCH @ 1.4%

ALLIANT ENERGY
OVERHEAD ELECTRIC

SPECTRUM
FIBER OPTIC

R/W

OH FO

2'
12'
12'
2'

172 173 174 175 176

SIXTEENTH LINE

ZENDA ROAD

SIGN

EXISTING 15" CPCP

4.0 STA 173+15, 26.00' RT
APRON ENDWALL

STA. 175+15 RT.
BASE AGG. P.E.

SLOPE INTERCEPT (TYP.)

POST

STA. 176+58 RT.
ASPH. P.E.

P/L

YORK TRUST
IL 2200005

YORK TRUST
N1276 ZENDA ROAD

5

5

1060
1055
1050
1045

VCL = 435.00
K = 115.97

LP STA 173+62.79
LP EL 1051.07

VPT STA 174+32.50
VPT EL 1051.28

PROPOSED PROFILE

VPC STA 175+70.00
VPC EL 1052.11

VPI STA 176+70.00
VPI EL 1052.71

0.60%

HP STA 175+86.93
HP EL 1052.16

VPI STA 172+15.00
VPI EL 1049.97

EXISTING PROFILE

CPCPE 18-INCH @ 1.40%

EXISTING
PROPOSED

VCL = 200.00
K = 28.16

1052.06	1053.41	1051.71	1053.02	1051.08	1052.21	1050.81	1051.62	1050.74	1051.24	1050.64	1051.08	1050.84	1051.13	1051.28	1051.39	1051.76	1051.69	1051.96	1051.99	1051.95	1052.13	1051.35	1051.45	1050.39	1050.62

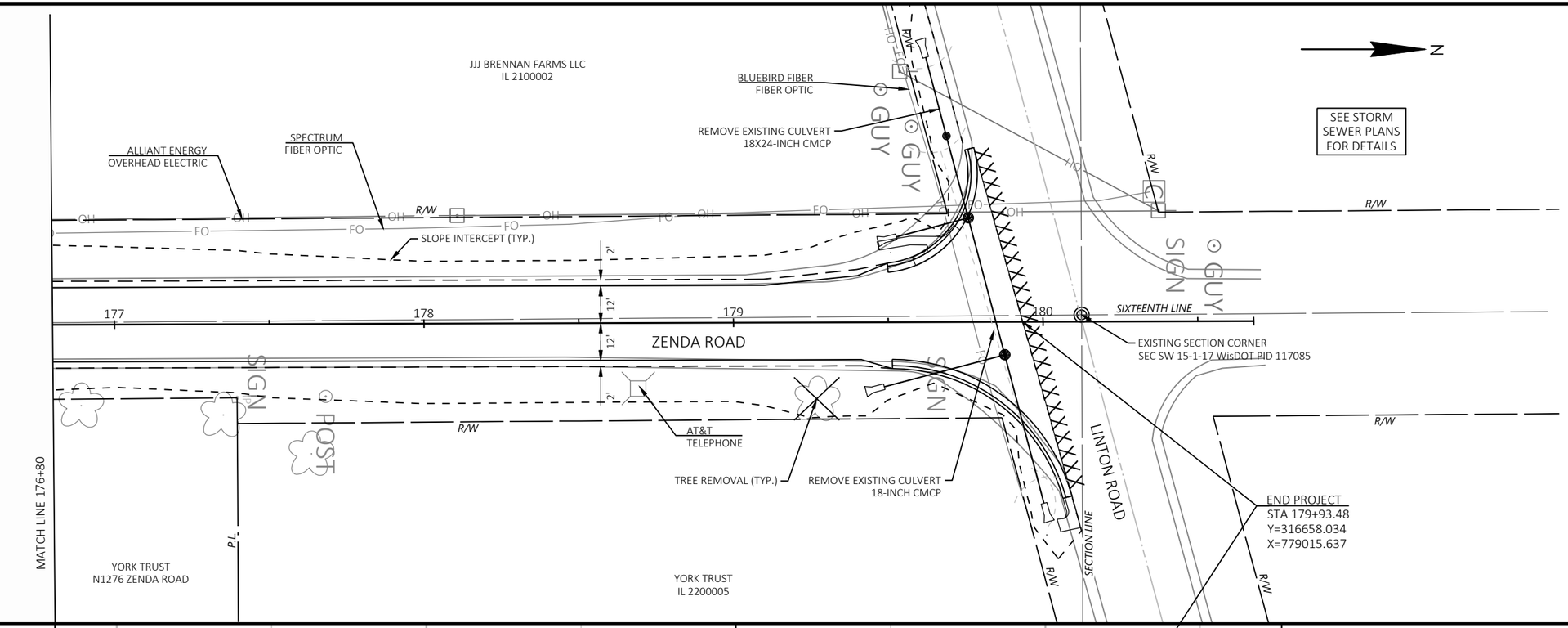
171 172 173 174 175 176 176

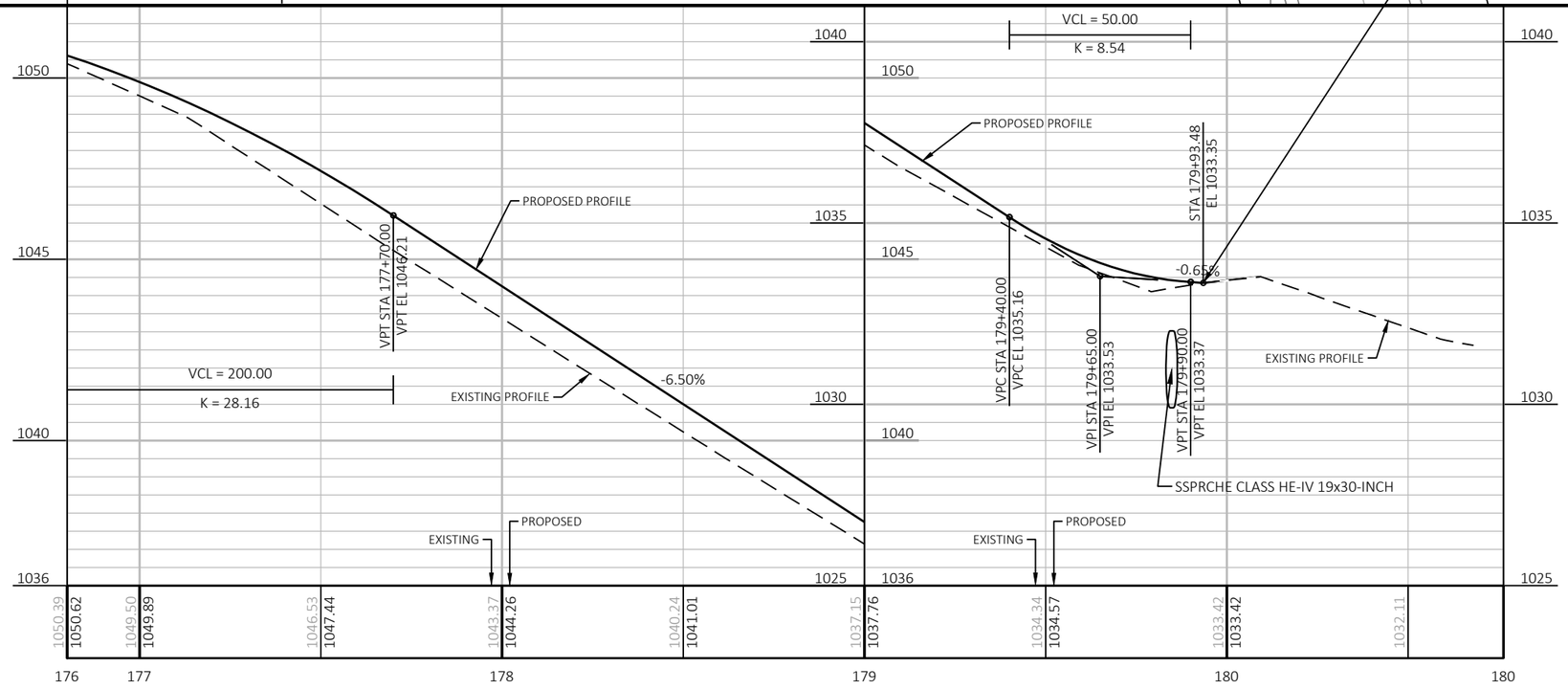
PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN AND PROFILE: ZENDA ROAD	SHEET 57	E

FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-050101-PP.DWG
LAYOUT NAME - 14

PLOT DATE : 10/23/2026 1:54 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





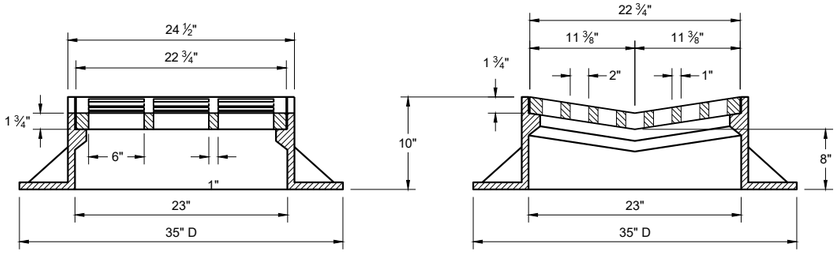
PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	PLAN AND PROFILE: ZENDA ROAD	SHEET 58	E

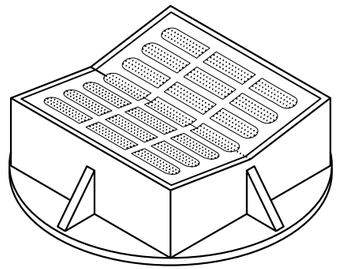
FILE NAME : C:\USERS\RBURKE\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-050101-PP.DWG
LAYOUT NAME - 15
PLOT DATE : 10/23/2026 1:52 PM
PLOT BY : RYAN BURKE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

Standard Detail Drawing List

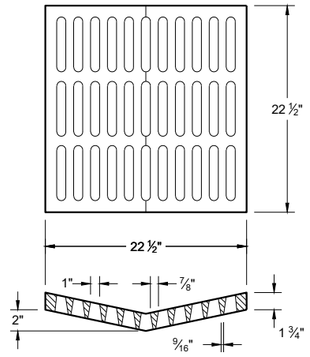
08A05-22B	INLET COVERS TYPE B, B-A, C, MS, MS-A, DW AND WM
08B09-04	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER
08D01-24A	CONCRETE CURB AND GUTTER
08D01-24B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-07	CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPES 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
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A14-01	DRIVEWAYS WITHOUT CURB AND GUTTER
13C19-03	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-10A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-10B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-10C	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 TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-24A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C11-11B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D28-06	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D39-03	TRAFFIC CONTROL, DROP-OFF SIGNING
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL

6





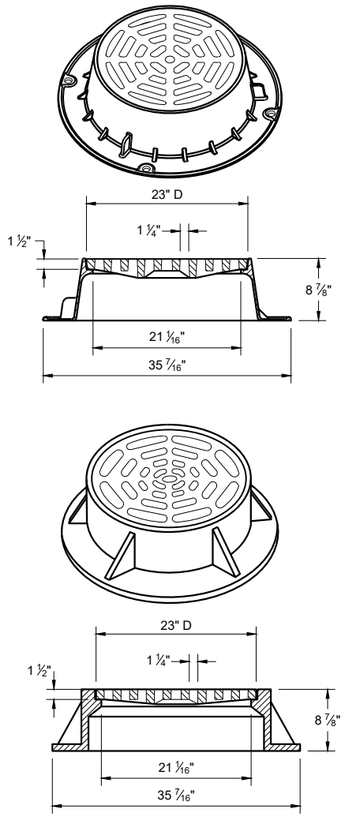
TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS POSSIBLE

NOTED AS TYPE B - A ON THE DRAINAGE TABLE



TYPE "C"

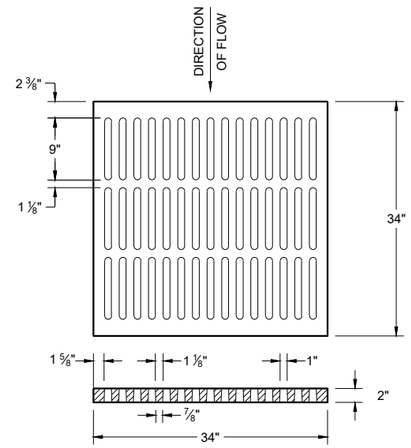
NOTE: EITHER CASTING IS ACCEPTABLE

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.

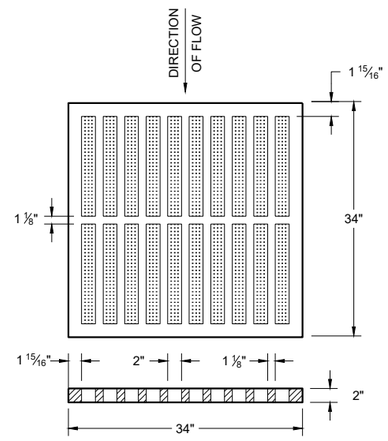
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS PERMITTED

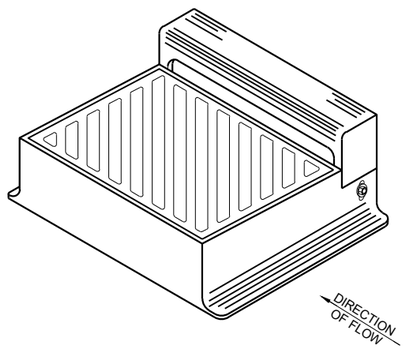
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



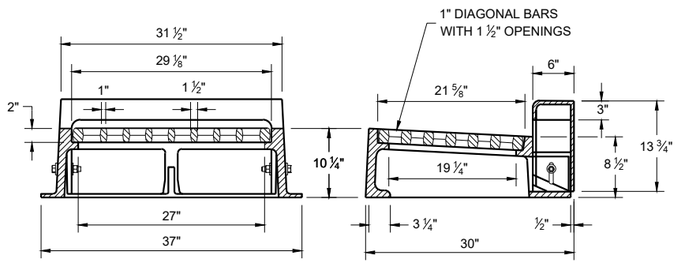
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON THE DRAINAGE TABLE

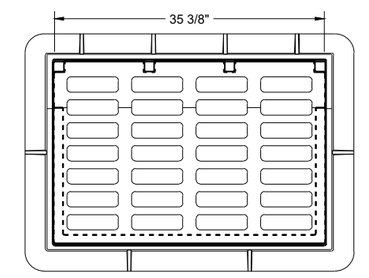


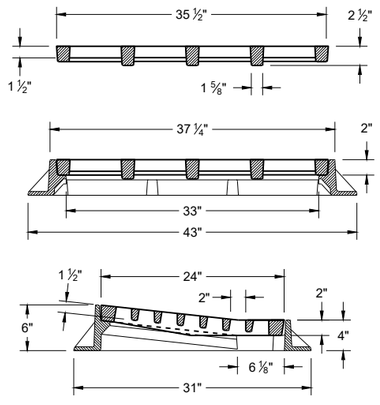
DIAGONAL SLOTS SHALL BE ORIENTEDTO THE DIRECTION OF FLOW AS ILLUSTRATED.
GRATES ARE MANUFACTURED TO BE REVERSIBLE.

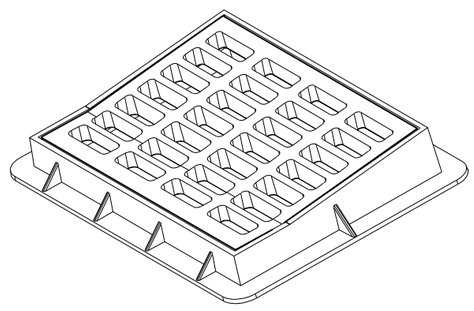


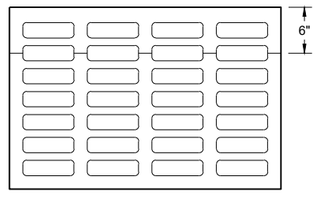
TYPE "WM"

NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"









TYPE "DW"

NOTES: FOR USE IN A SUMP CONDITION. THIS OPTION IS ONLY TO BE USED IF NO OTHER INLETS ARE APPLICABLE.

INLET COVERS
TYPES B, B-A, C,
MS, MS-A ,DW AND WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

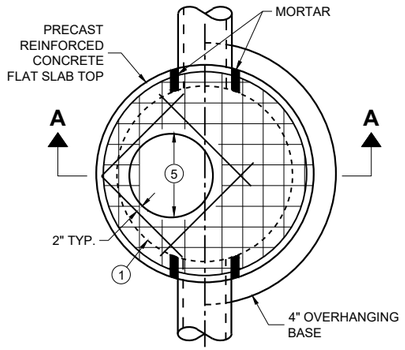
APPROVED
February 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6

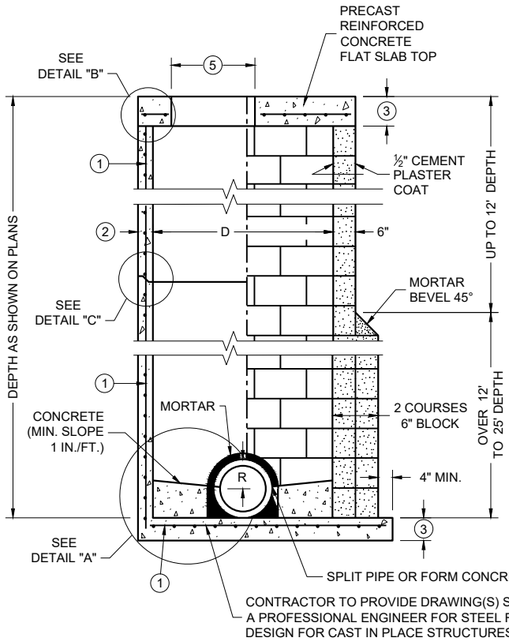
SDD 08A05-22b

SDD 08A05-22b



PLAN VIEW

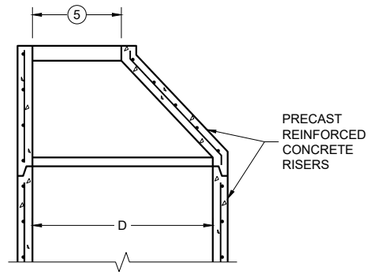
CIRCULAR OPENING



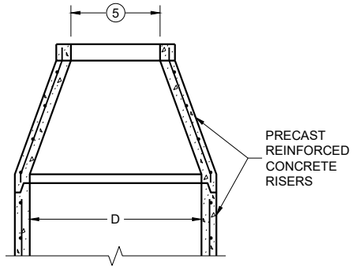
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

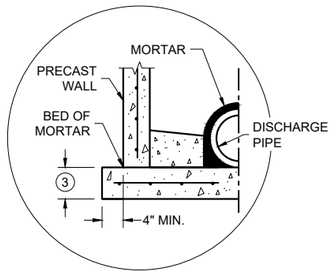
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)



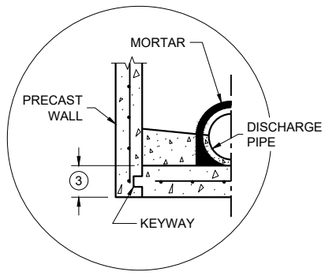
OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

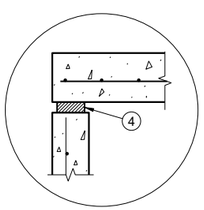


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

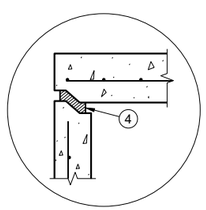


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

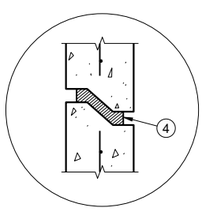
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

DETAIL "C"

MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) (5) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42 *	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES. SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

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 MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES 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.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL IMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

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

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

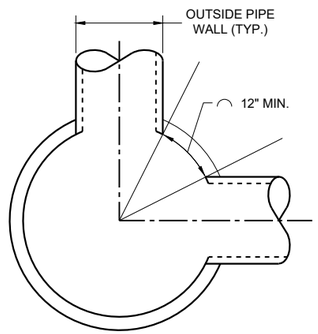
(1) FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES

(3) SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.

(5) SEE MANHOLE COVER OPENING MATRIX.



MINIMUM HORIZONTAL PIPE SEPARATION

DETAIL "D"

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

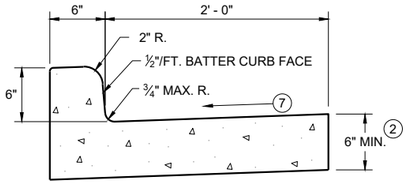
FHWA

6

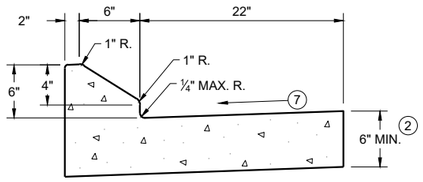
SDD 08B09-04

6

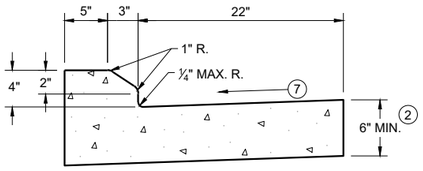
SDD 08B09-04



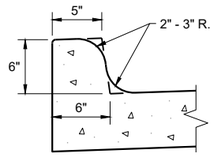
TYPES A (1) & D



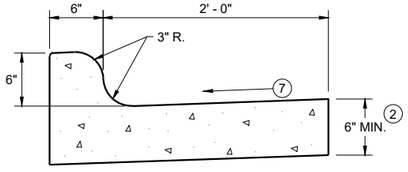
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

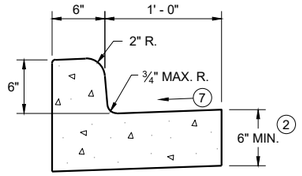


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



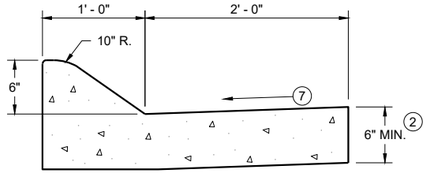
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

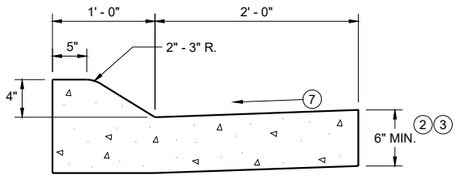


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

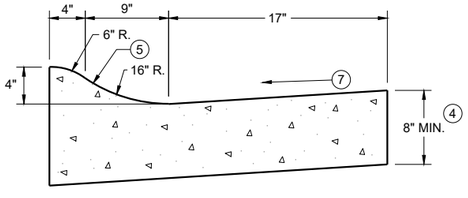


6" SLOPED CURB TYPES A (1) & D



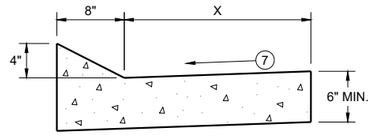
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T
CONCRETE CURB AND GUTTER 30"

TBT & TBTT	X
30"	22"
36"	28"

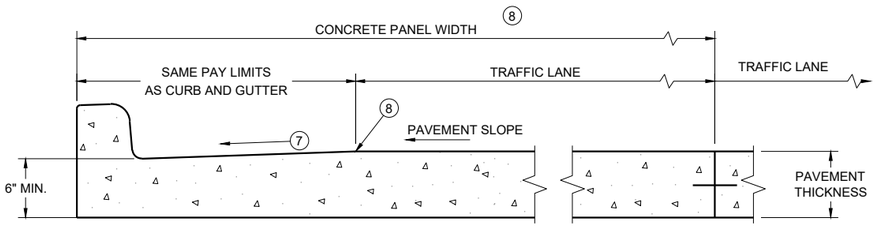


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

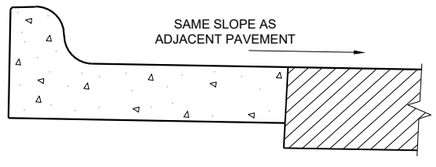
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER *

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

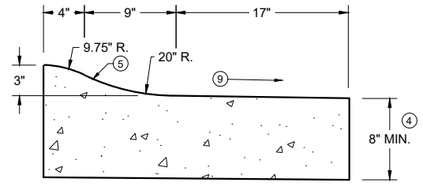
(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

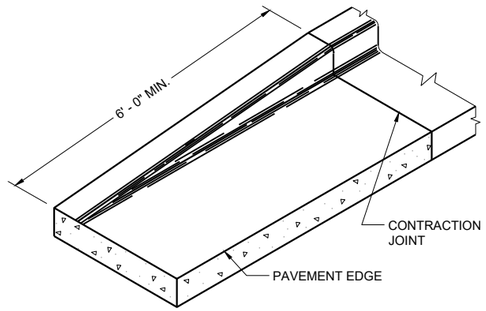
(9) SLOPE TO BE REVERSE SLOPE MATCHING THE SLOPE OF THE PAVEMENT AND THE CIRCULATORY ROADWAY



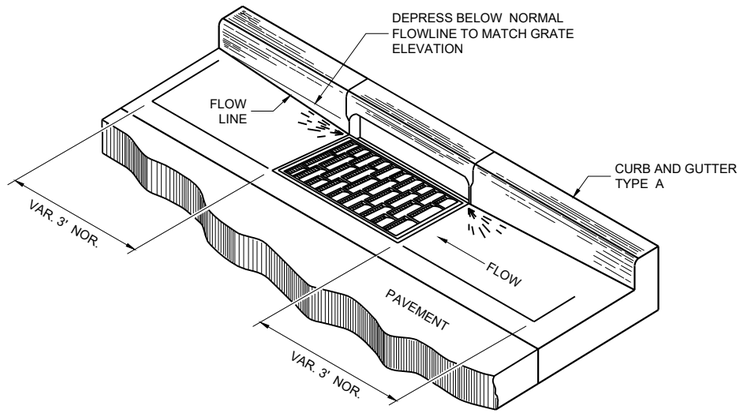
3" SLOPED CURB TYPES R (1) & T

CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

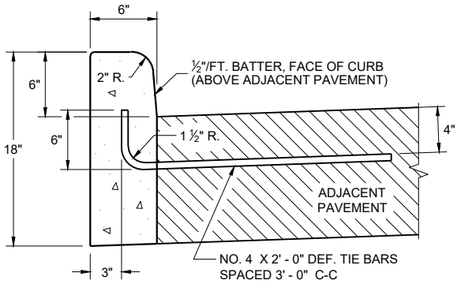
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

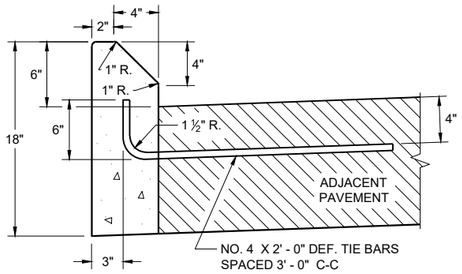
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(10) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

(11) PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.

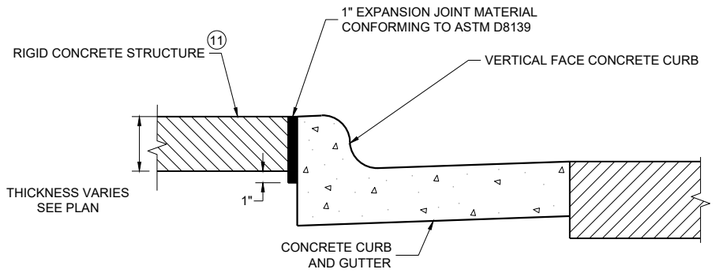


TYPES A (1) & D

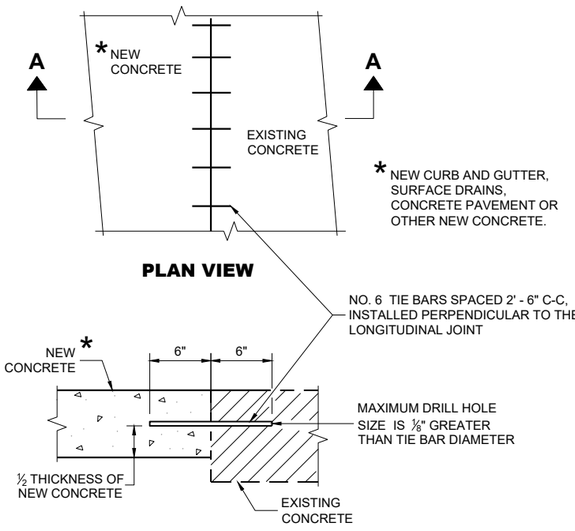


TYPES G (1) & J

CONCRETE CURB



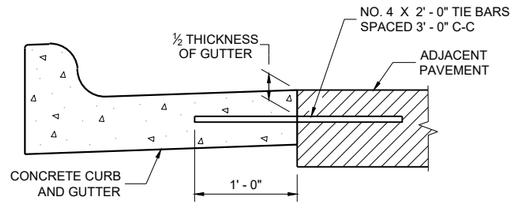
EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)



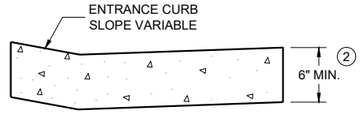
PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (10)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

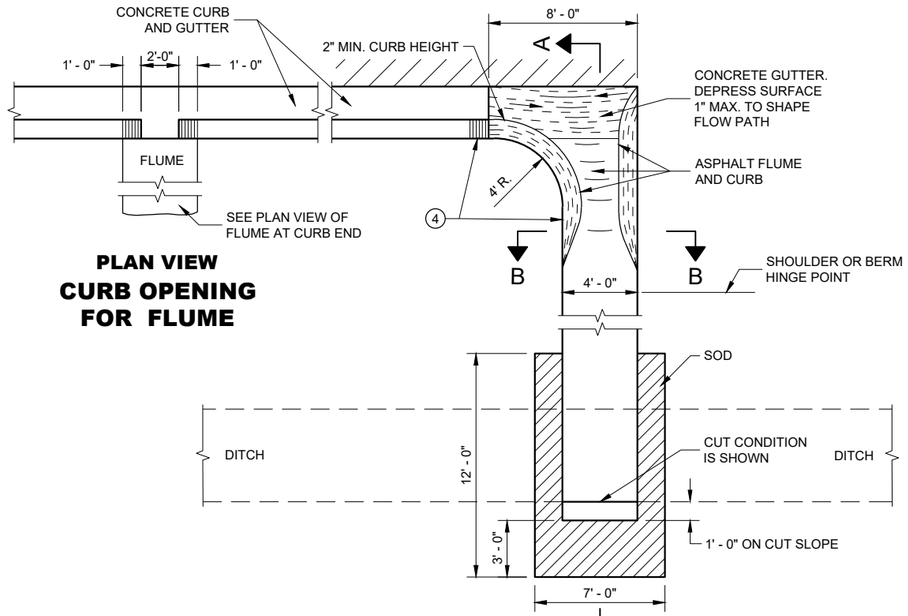
FHWA

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SDD 08D01-24b

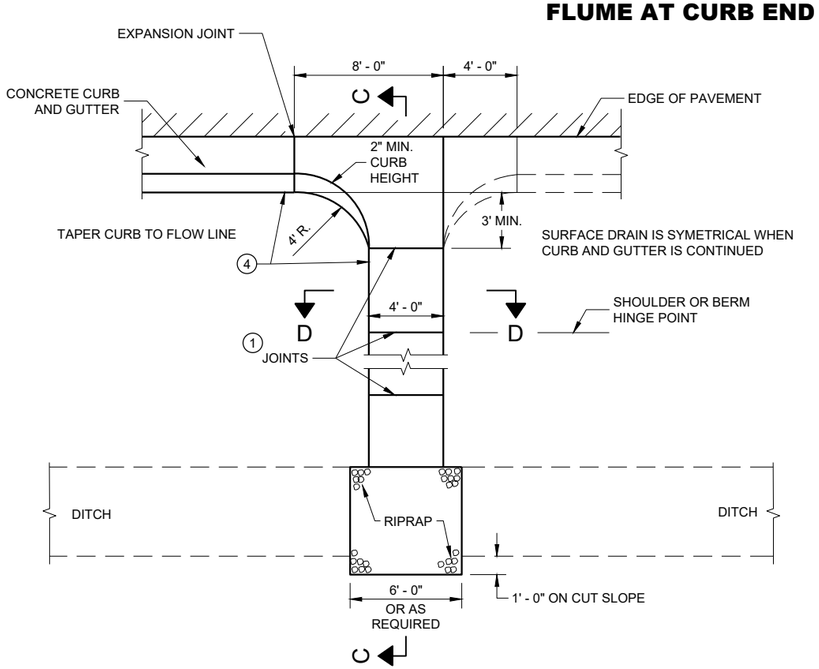
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



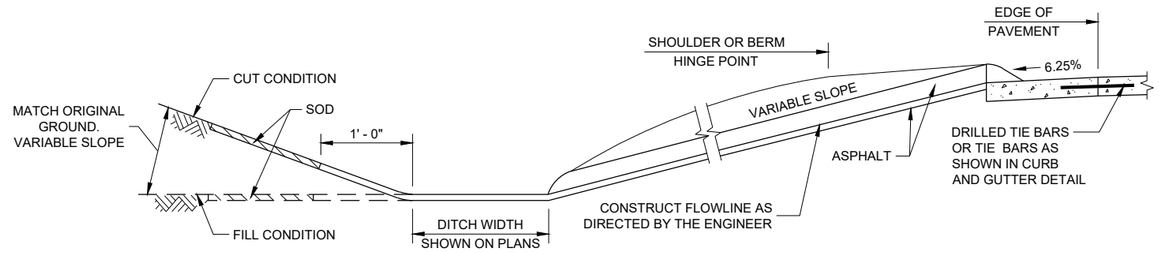
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

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

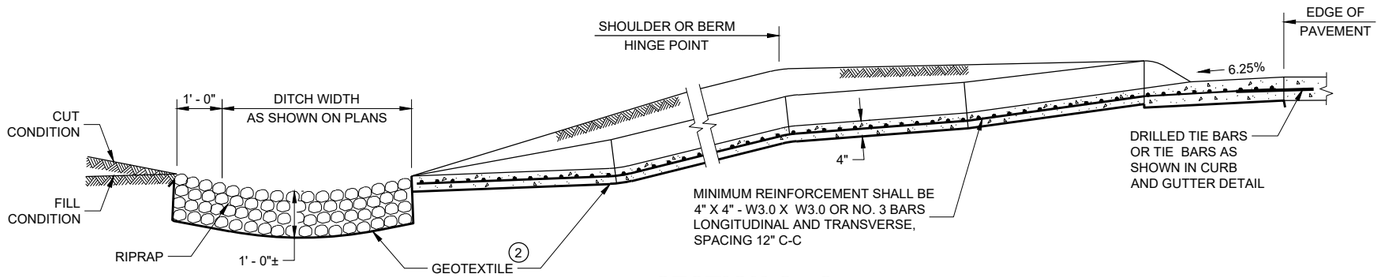
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

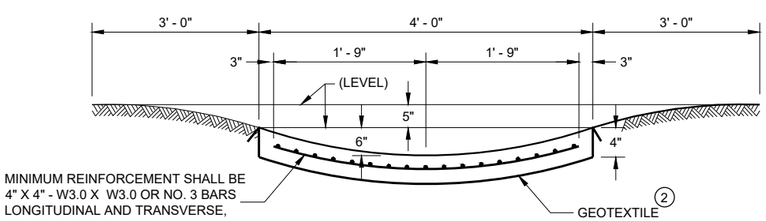


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

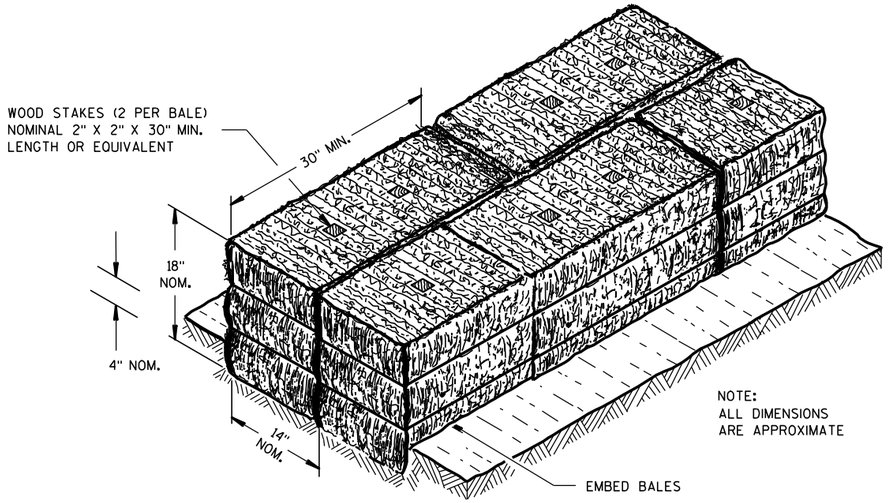
APPROVED
May 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

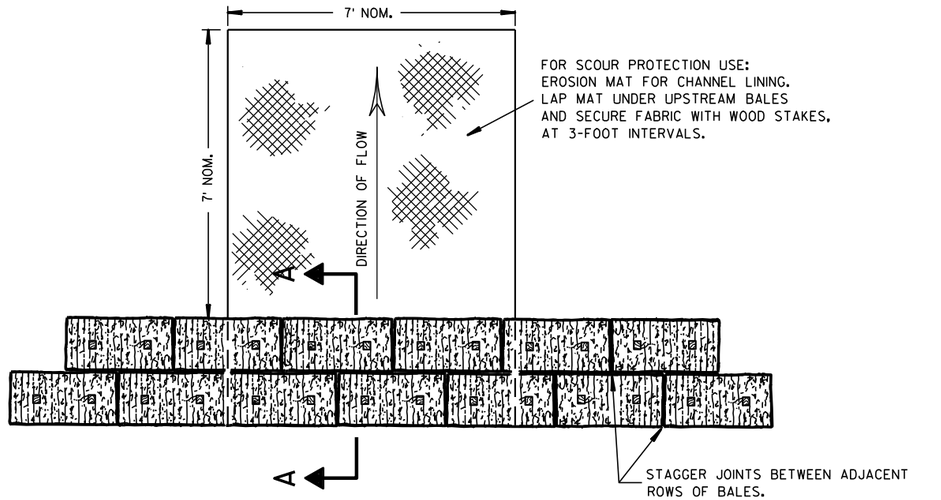
FHWA

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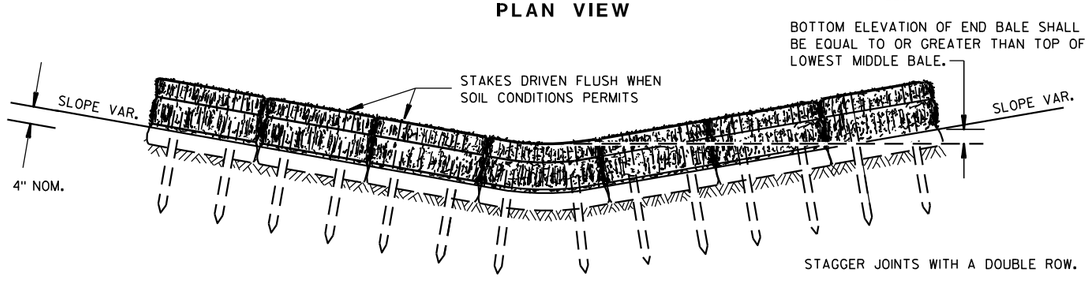
SDD 08D04 - 07



SECTION A-A



PLAN VIEW



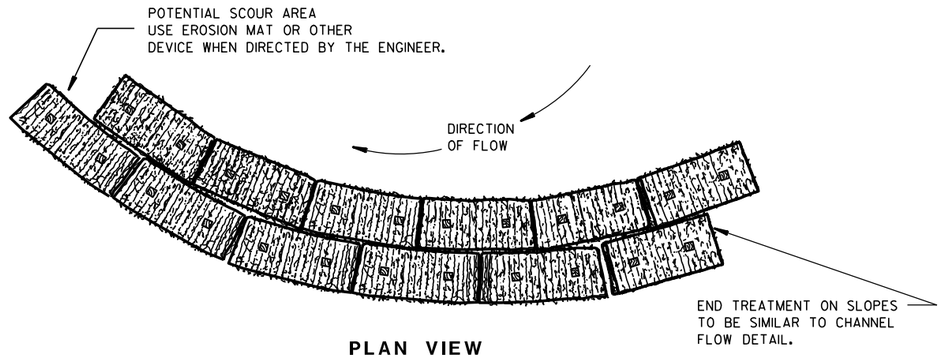
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

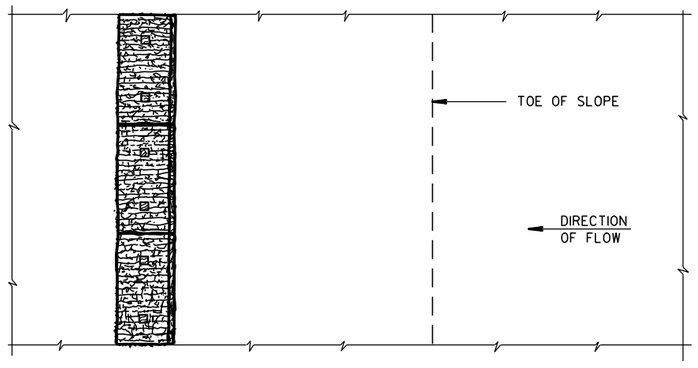
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

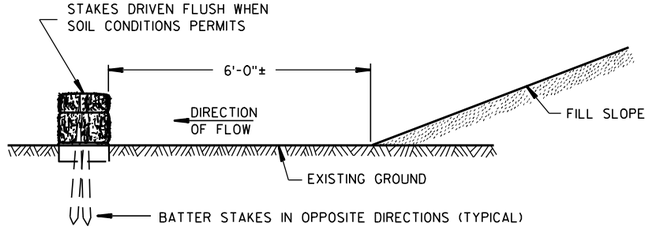


PLAN VIEW

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

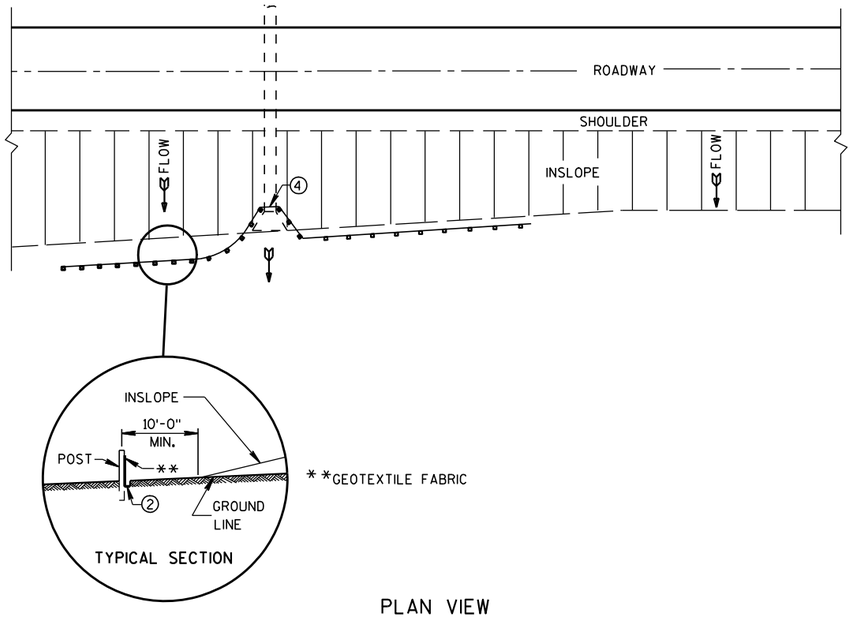
FHWA

6

S.D.D. 8 E 8-3

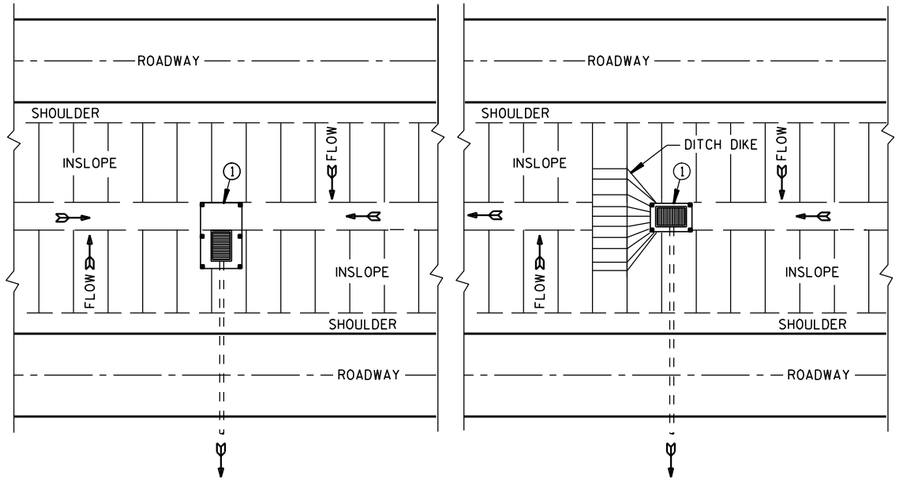
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S.D.D. 8 E 8-3



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.

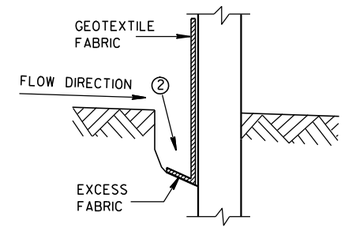
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

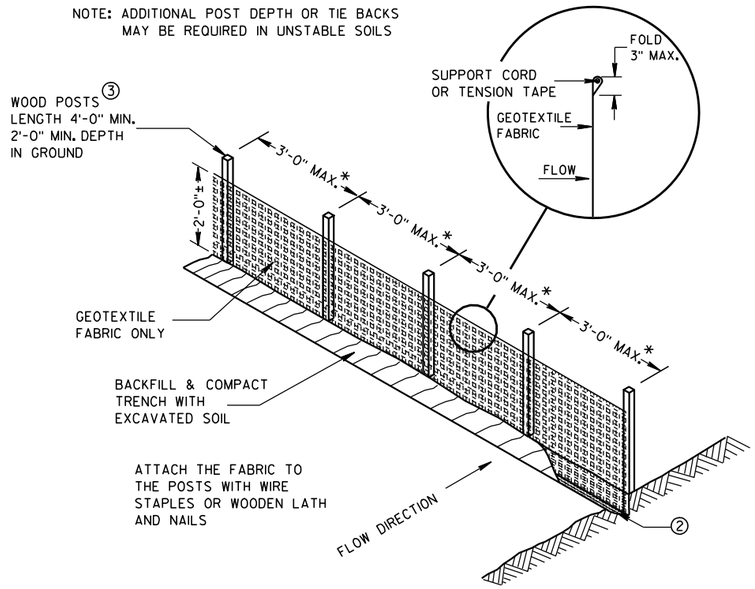
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

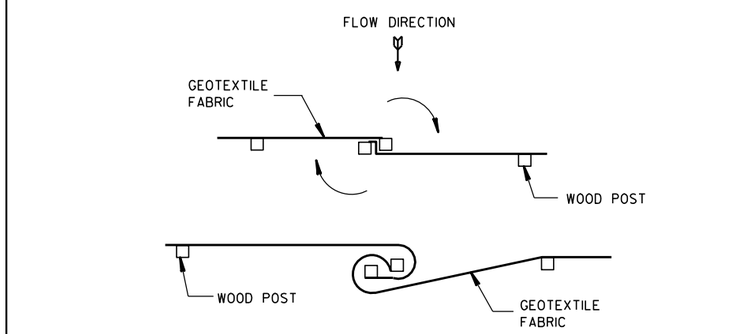
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



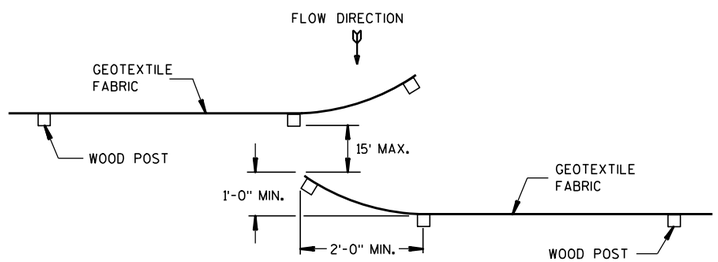
TRENCH DETAIL



SILT FENCE

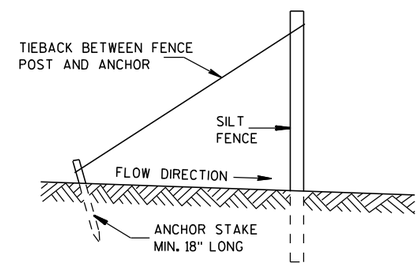


TWIST METHOD



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

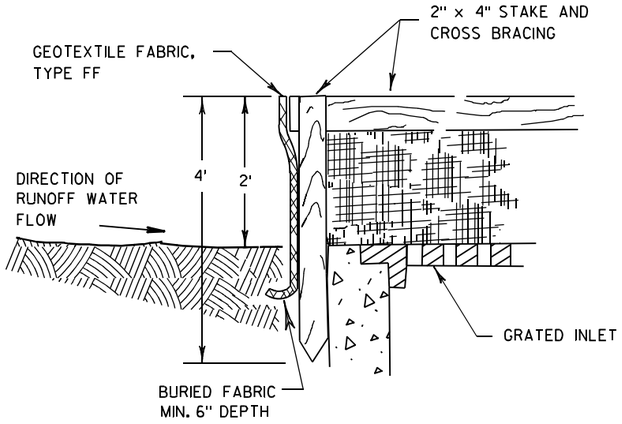
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

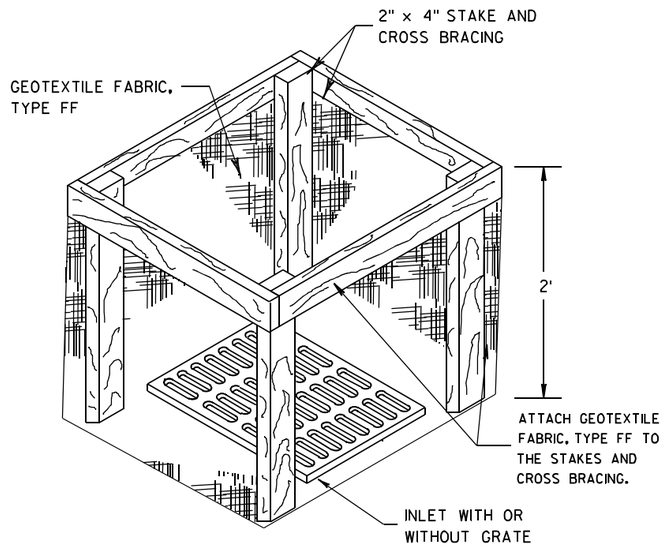
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S.D.D. 8 E 9-6

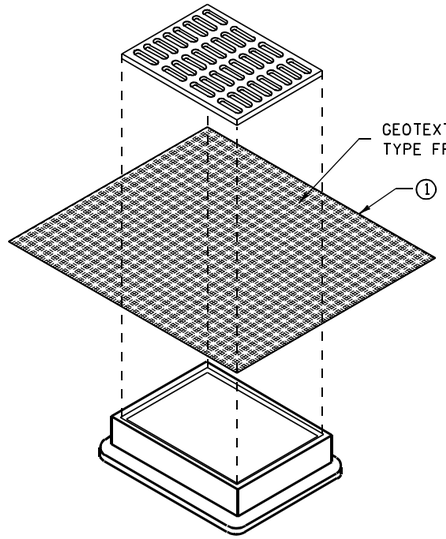
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S.D.D. 8 E 9-6



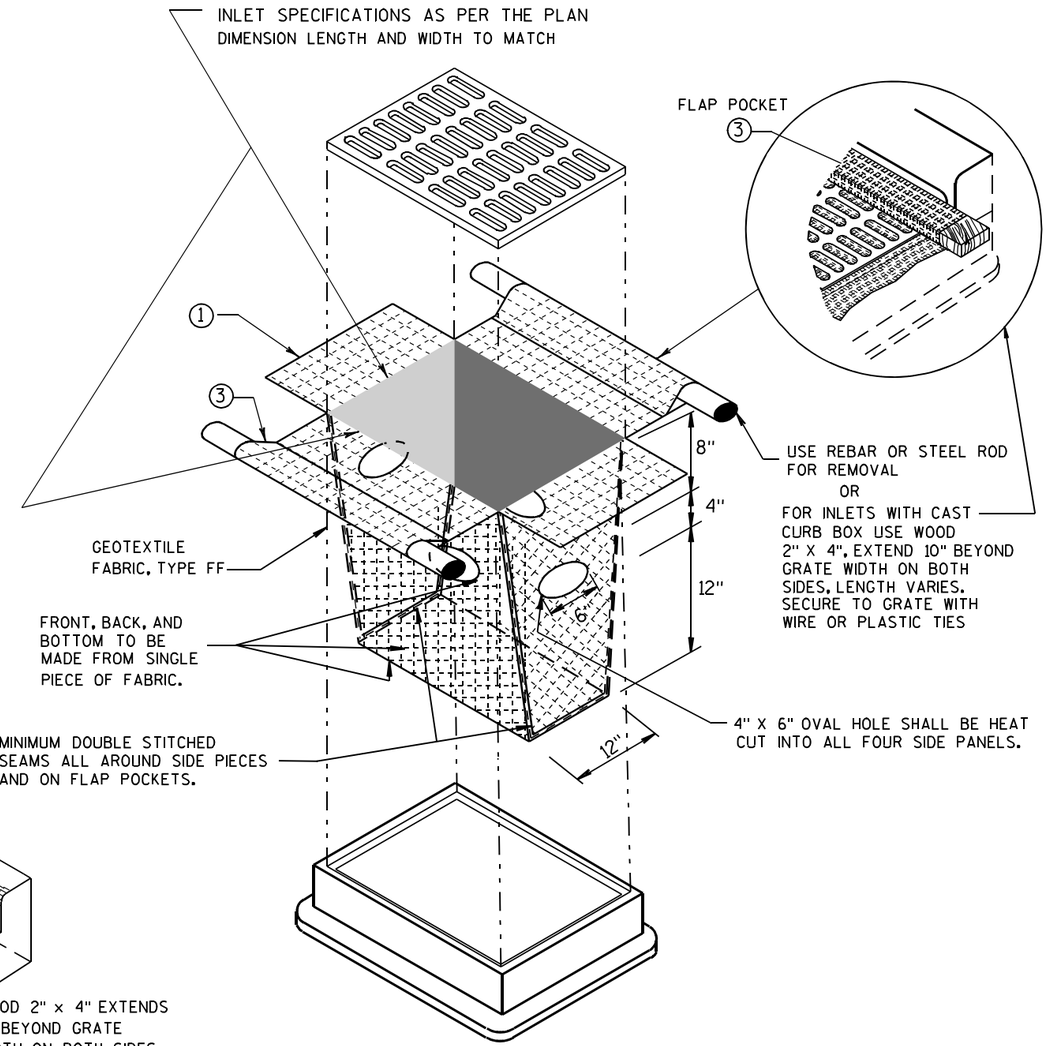


INLET PROTECTION, TYPE A



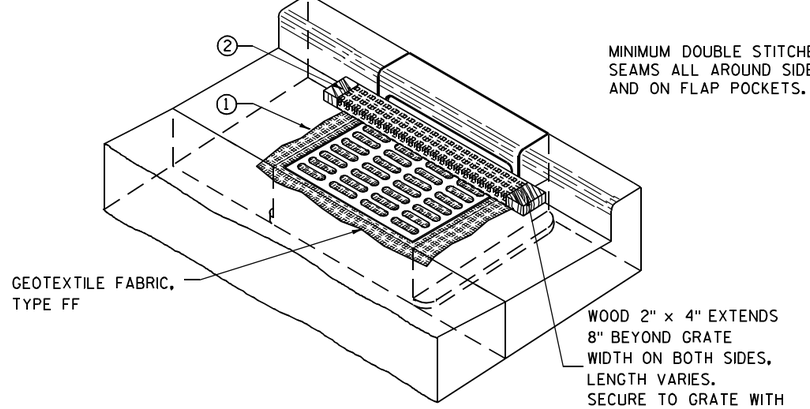
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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.

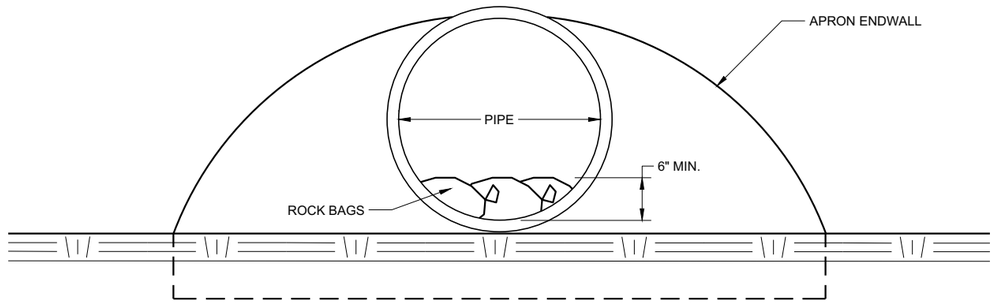
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE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

INLET PROTECTION
TYPE A, B, C, AND D

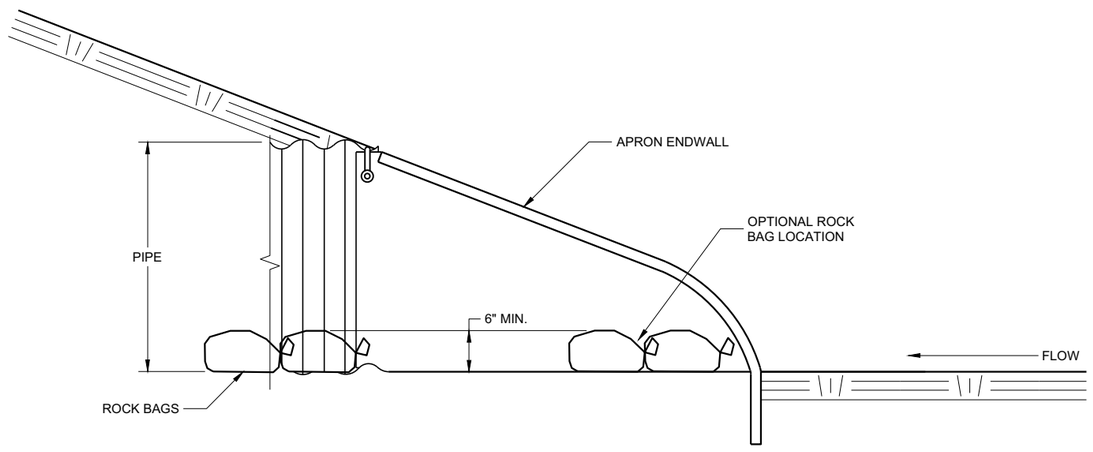
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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	

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SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

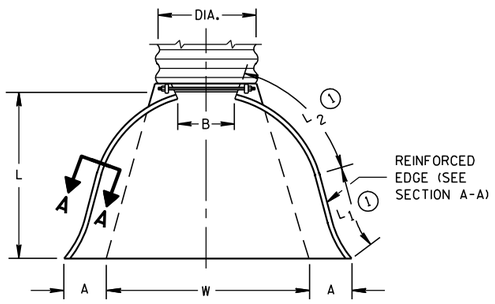
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

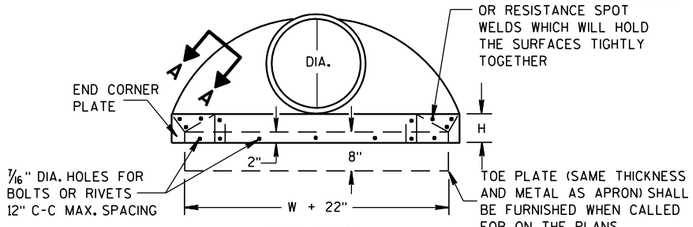
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
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

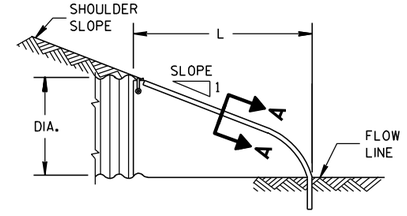
*MINIMUM
**MAXIMUM



PLAN VIEW

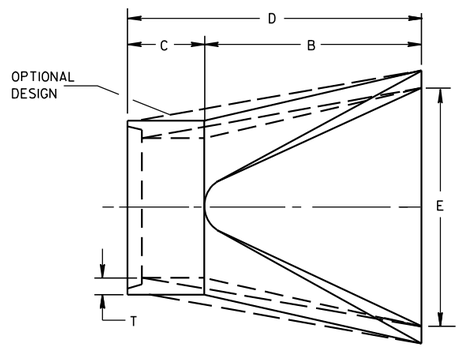


END VIEW

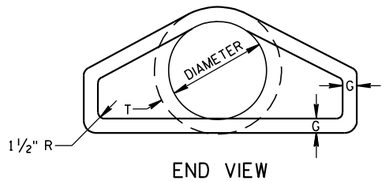


SIDE ELEVATION

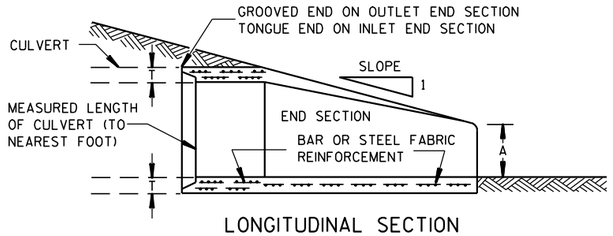
METAL ENDWALLS



PLAN

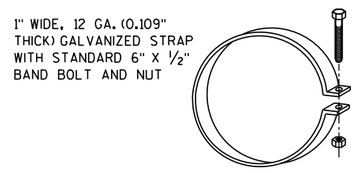


END VIEW



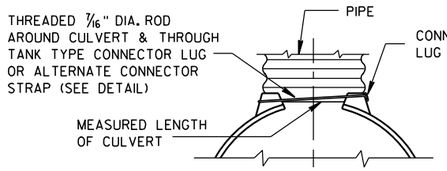
LONGITUDINAL SECTION

CONCRETE ENDWALLS

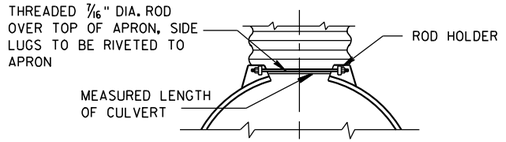


ALTERNATE FOR TYPE 1 CONNECTION

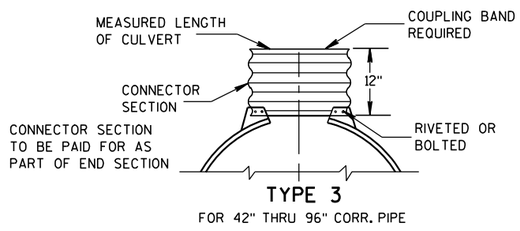
END SECTION CONNECTOR STRAP



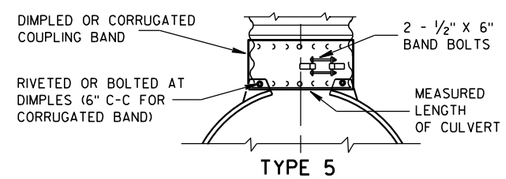
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

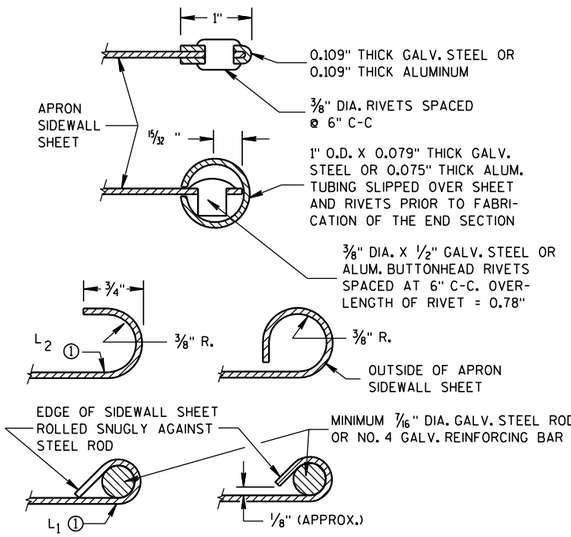
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

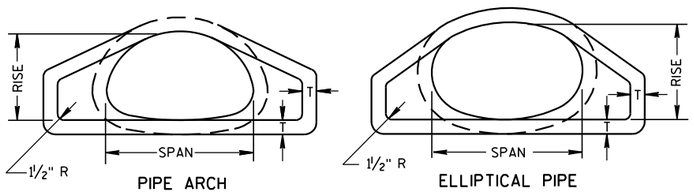
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

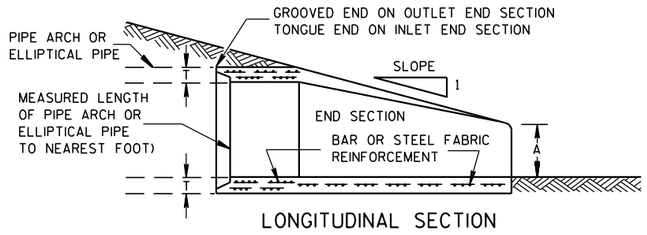
APPROVED
11/30/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

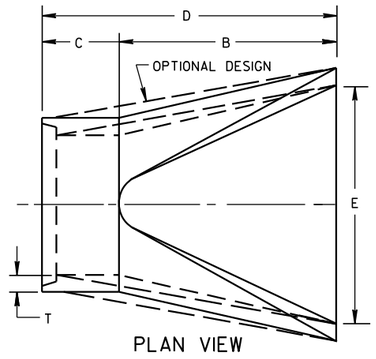
S.D.D. 8 F 1-11



END VIEW

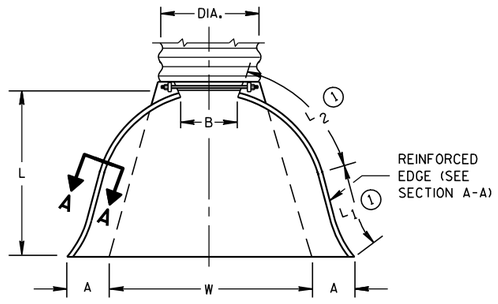


LONGITUDINAL SECTION

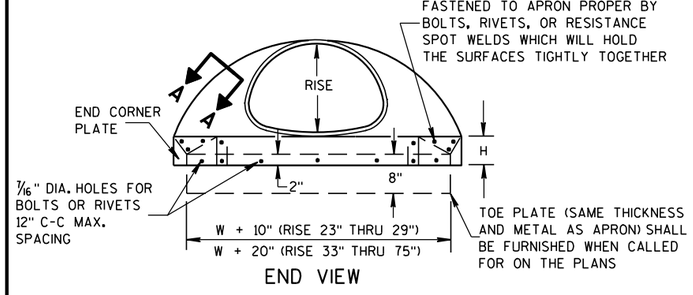


PLAN VIEW

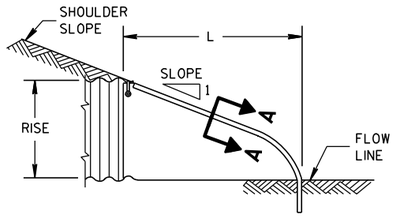
CONCRETE ENDWALLS



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

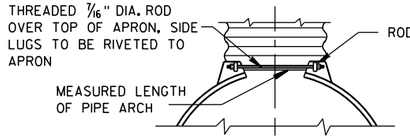
REINFORCED CONCRETE PIPE ARCH

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

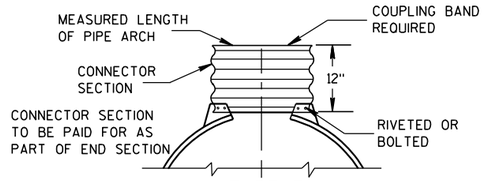
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48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

**NOMINAL SIZE



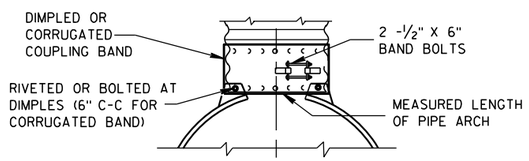
TYPE 2

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

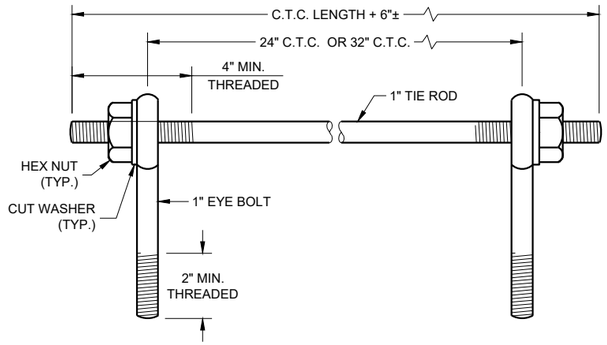
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

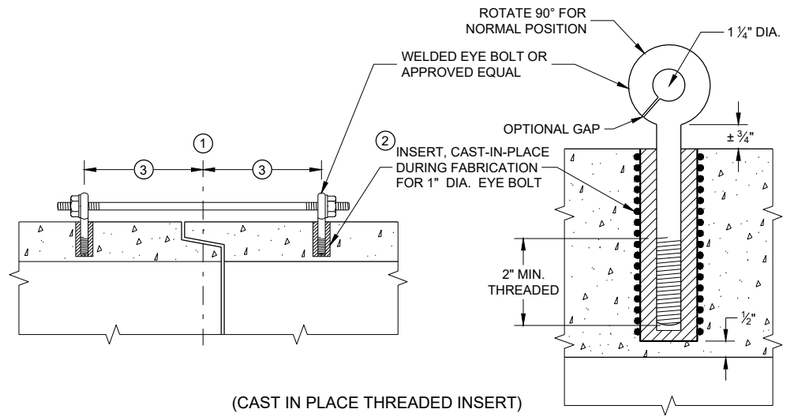
11/30/94 — DATE

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

FHWA



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) CENTER LINE 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.

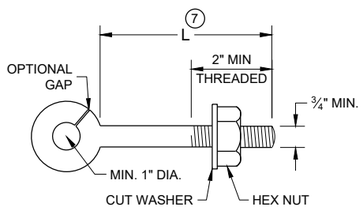
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

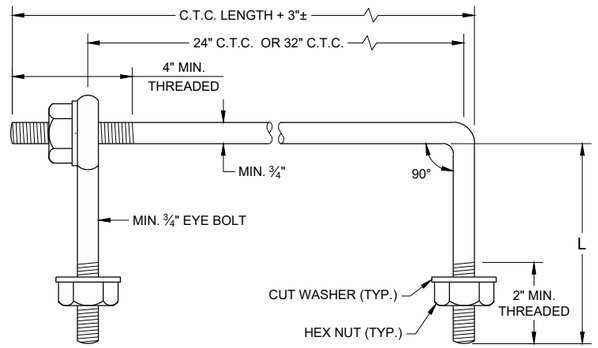
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

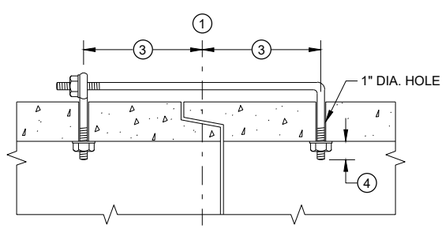


EYE BOLT (7)

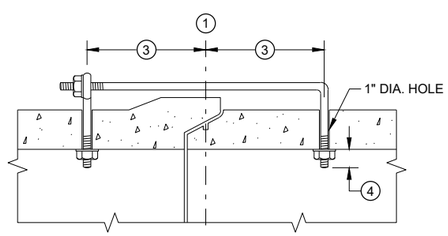
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

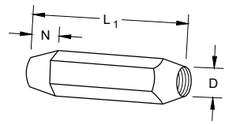
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

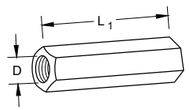
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



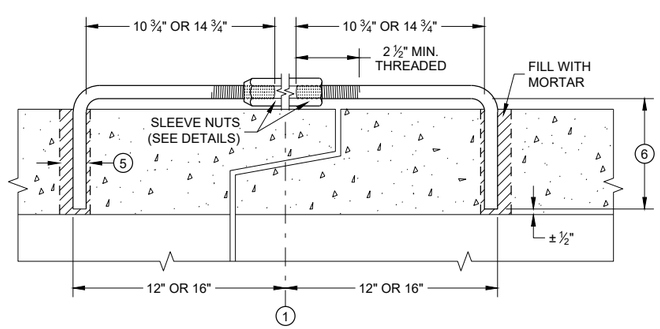
TAPERED



PLAIN

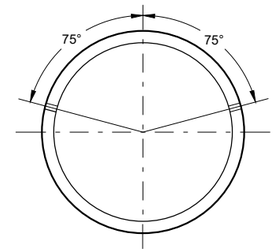
RIGHT AND LEFT THREADS

SLEEVE NUTS



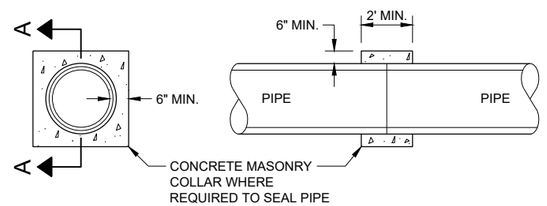
LONGITUDINAL SECTION

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

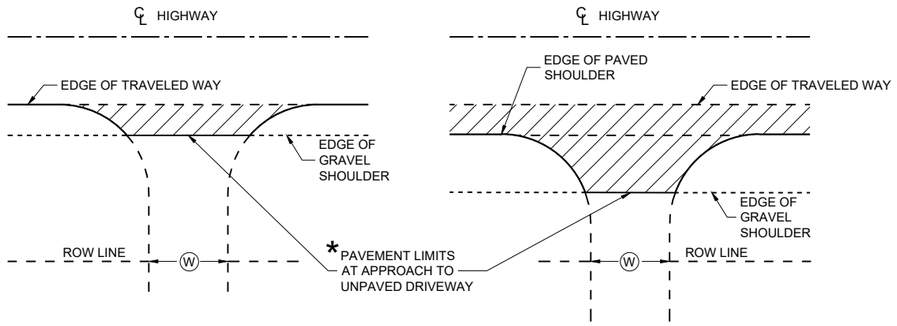
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

SDD 08F04 - 08

SDD 08F04 - 08

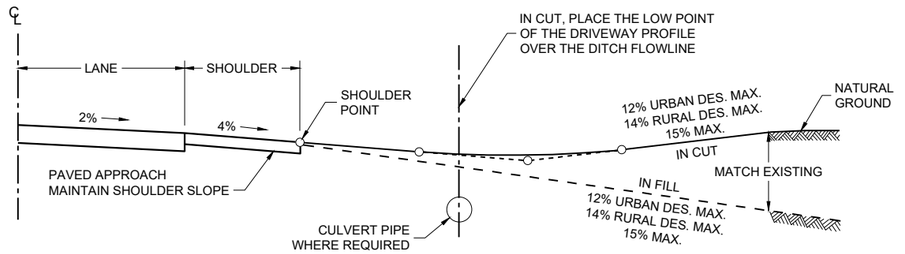


* WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

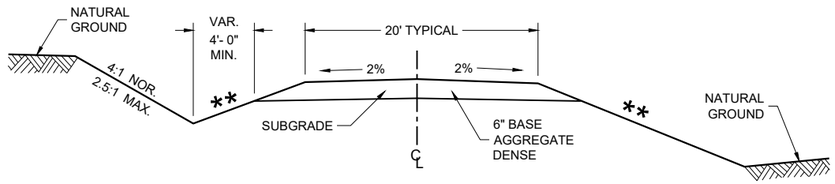
PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

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



TYPICAL DRIVEWAY PROFILES

Ⓦ : DRIVEWAY WIDTHS (MEASURED AT ROW LINE)
~ COMMERCIAL & INDUSTRIAL 16' MIN. - 35' MAX.
~ RESIDENTIAL & AGRICULTURAL (NONCOMMERCIAL) 16' MIN. - 24' MAX.

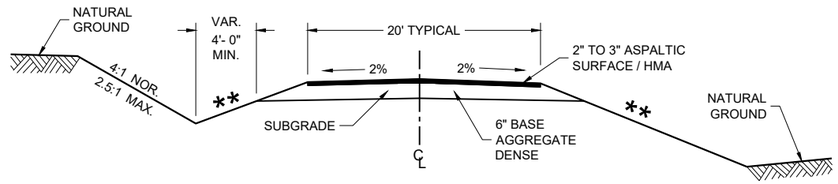


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2

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



IN CUT **IN FILL**

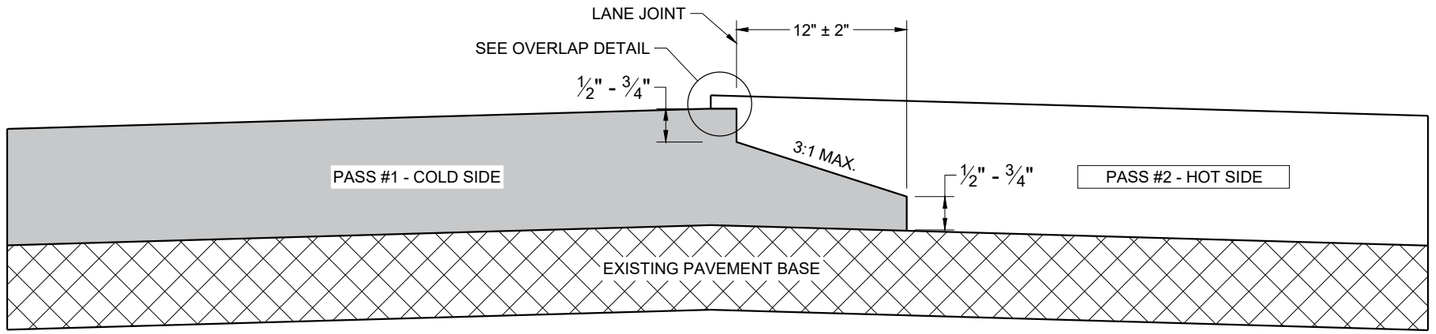
TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

DRIVEWAYS WITHOUT CURB AND GUTTER

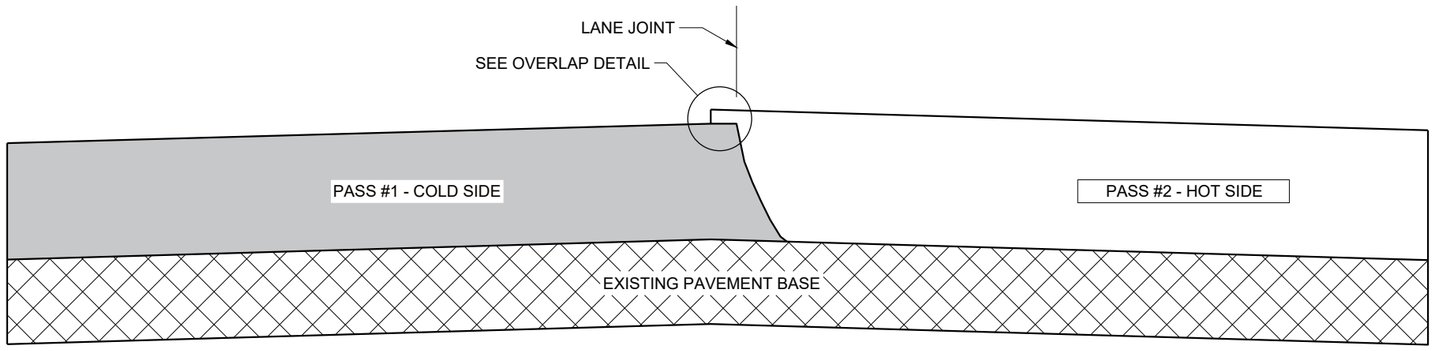
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

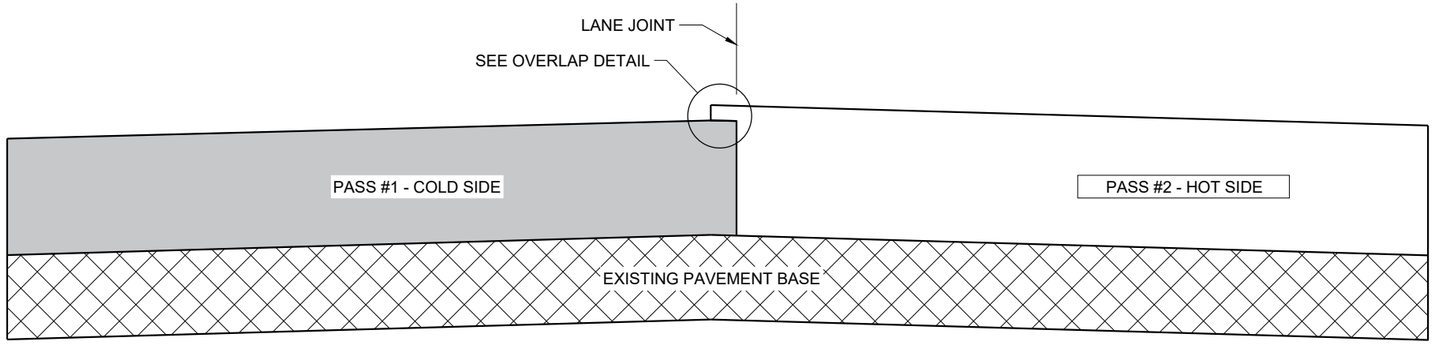
6
SDD 09A14-01



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

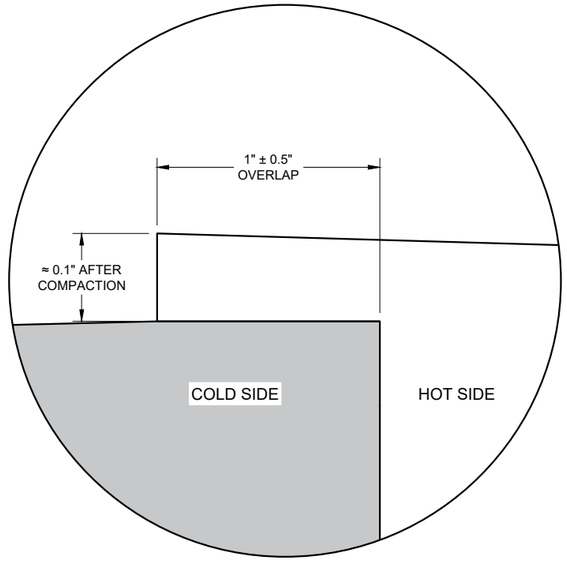
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

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 - 03

SDD 13C19 - 03

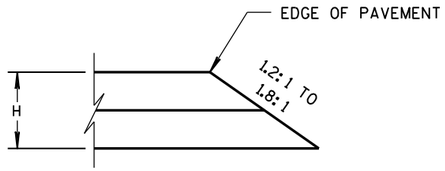
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

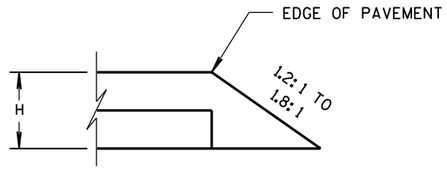
/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



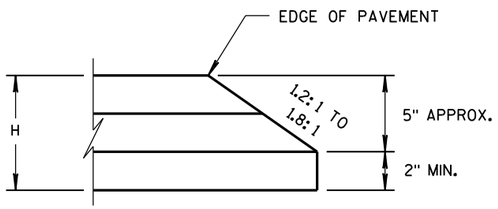
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



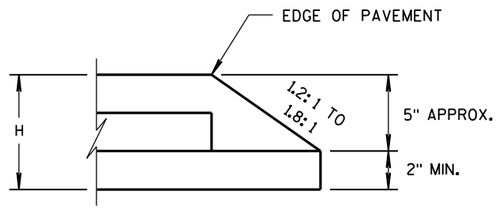
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

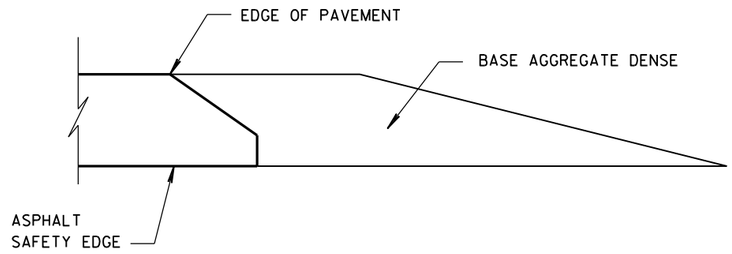
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

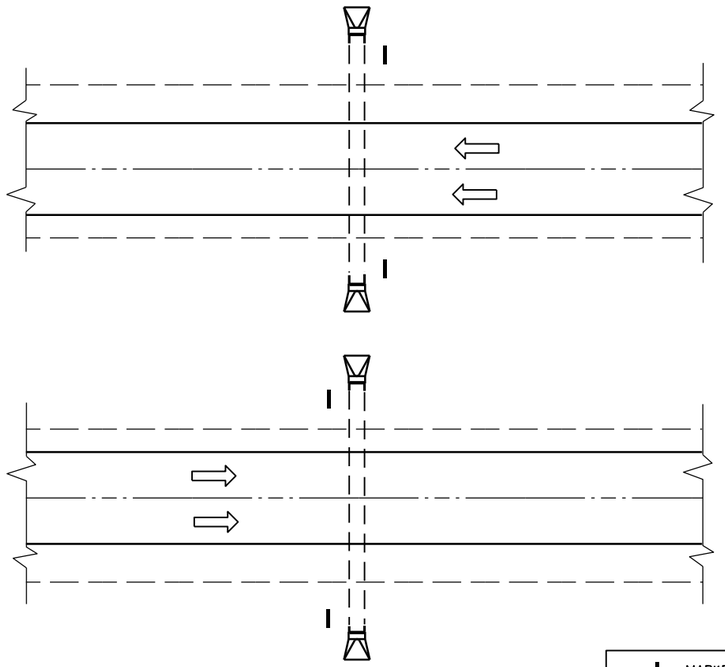
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

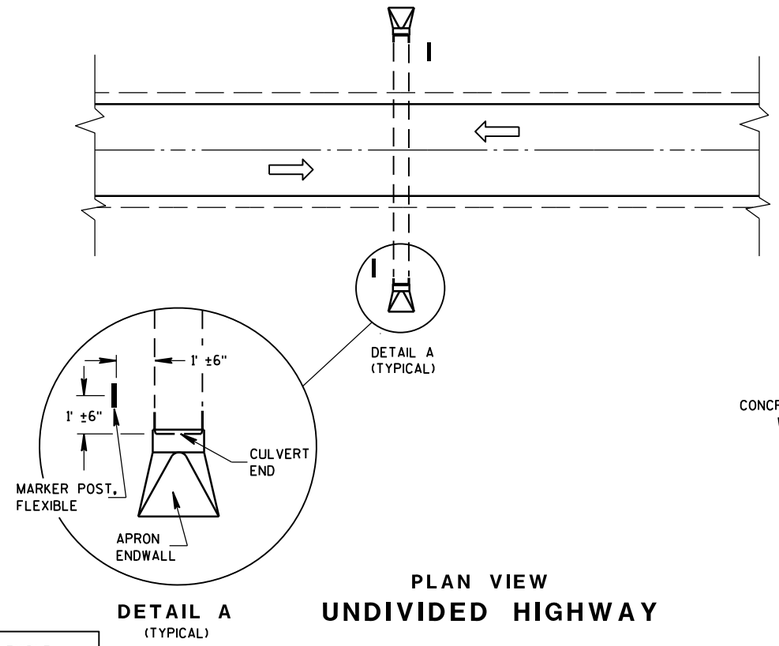
/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

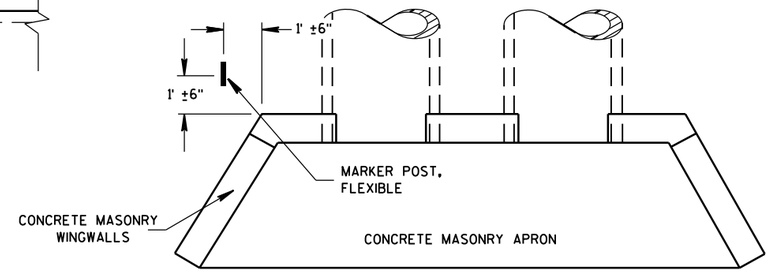
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

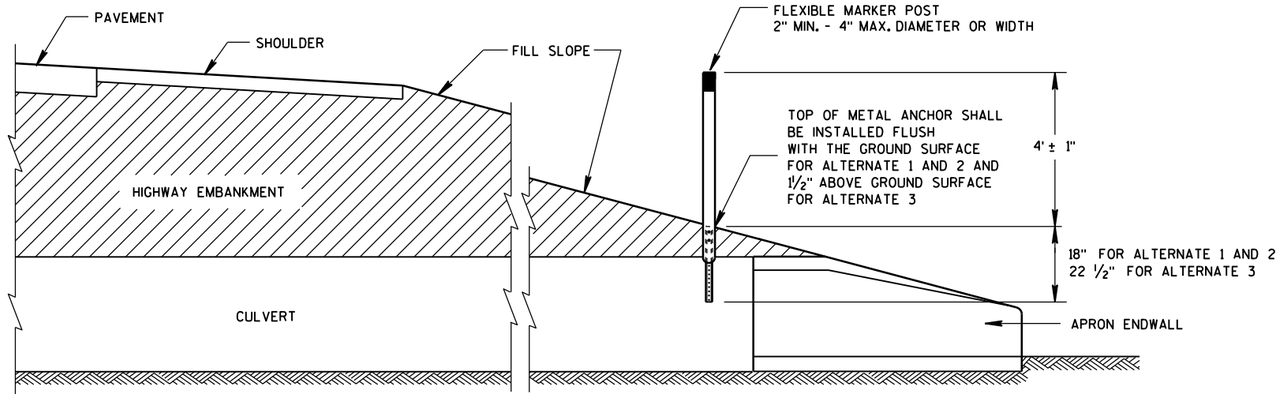
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

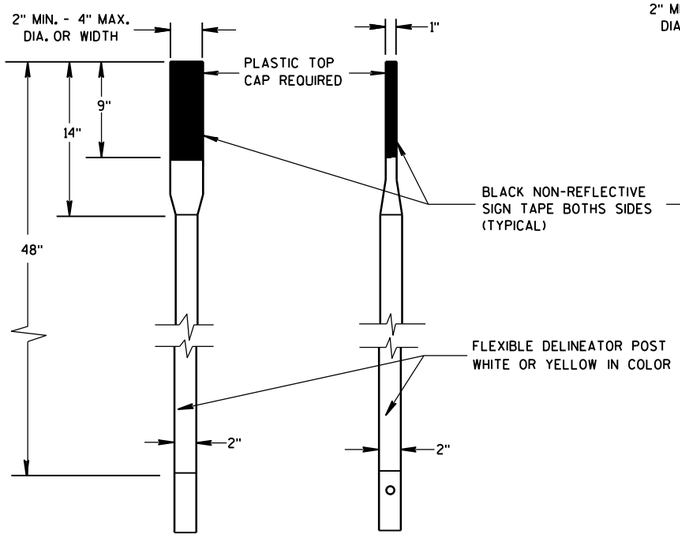
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

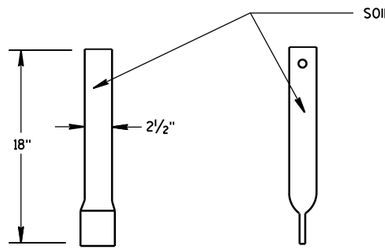
6

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

6

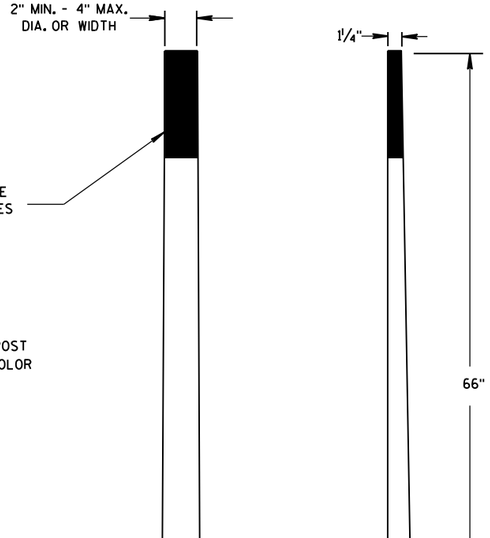
S.D.D. 15 A 3-2a





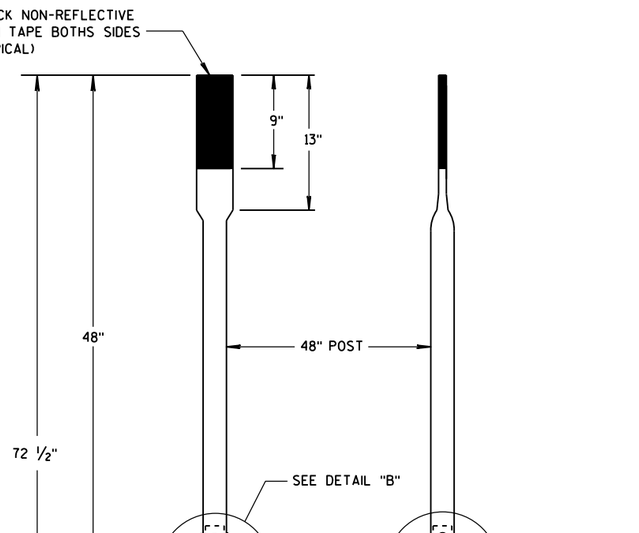
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

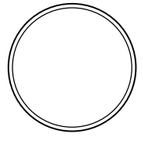
ALTERNATE 2



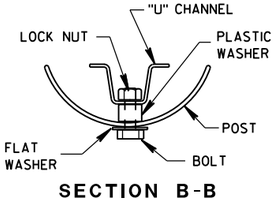
FRONT VIEW SIDE VIEW

ALTERNATE 3

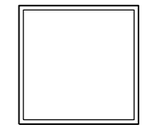
FLEXIBLE MARKER POSTS



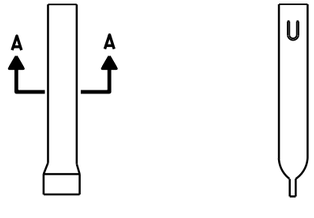
SECTION A-A



SECTION B-B

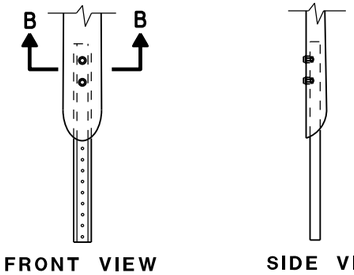


SECTION C-C



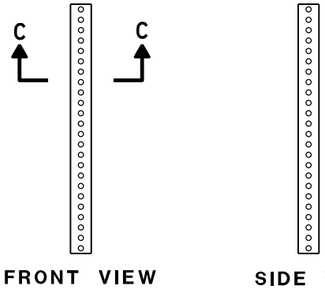
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

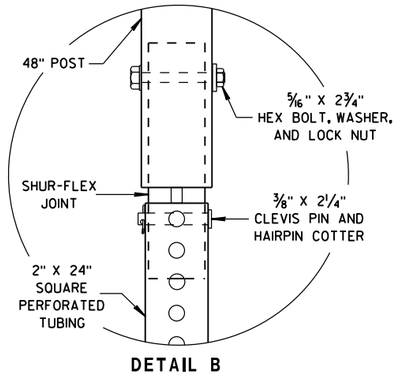
ALTERNATE 2



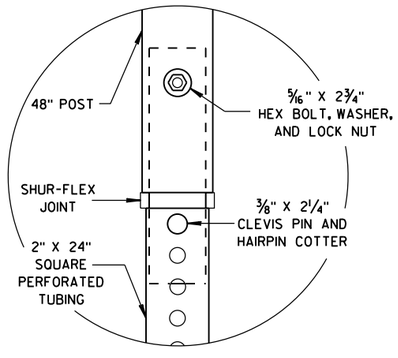
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



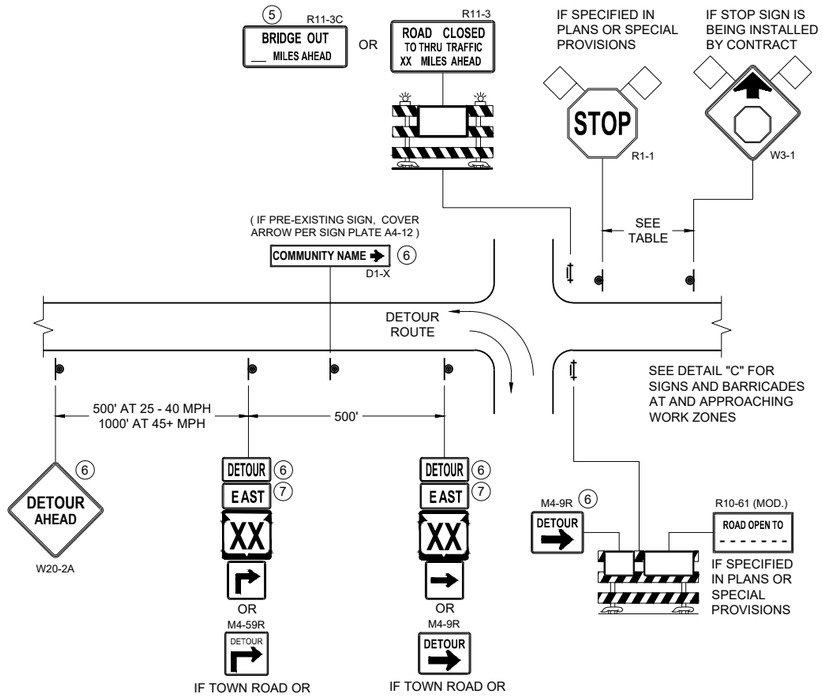
DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

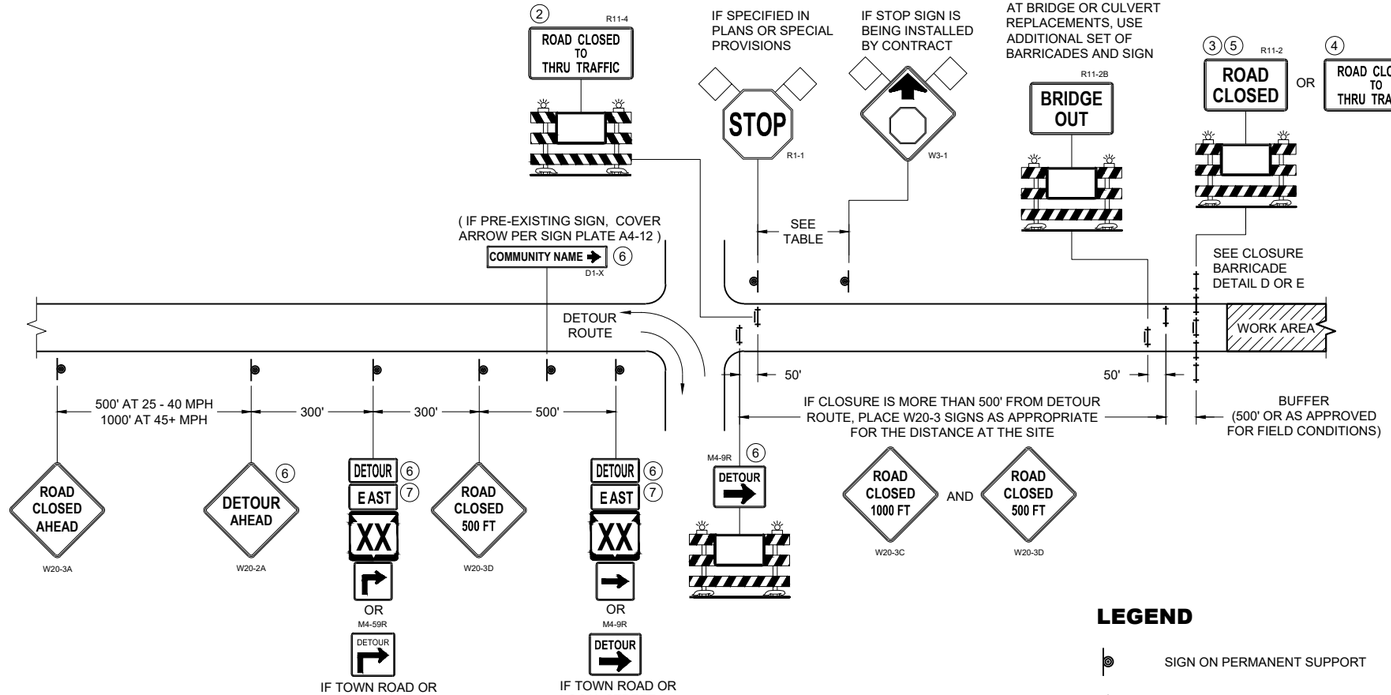
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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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)

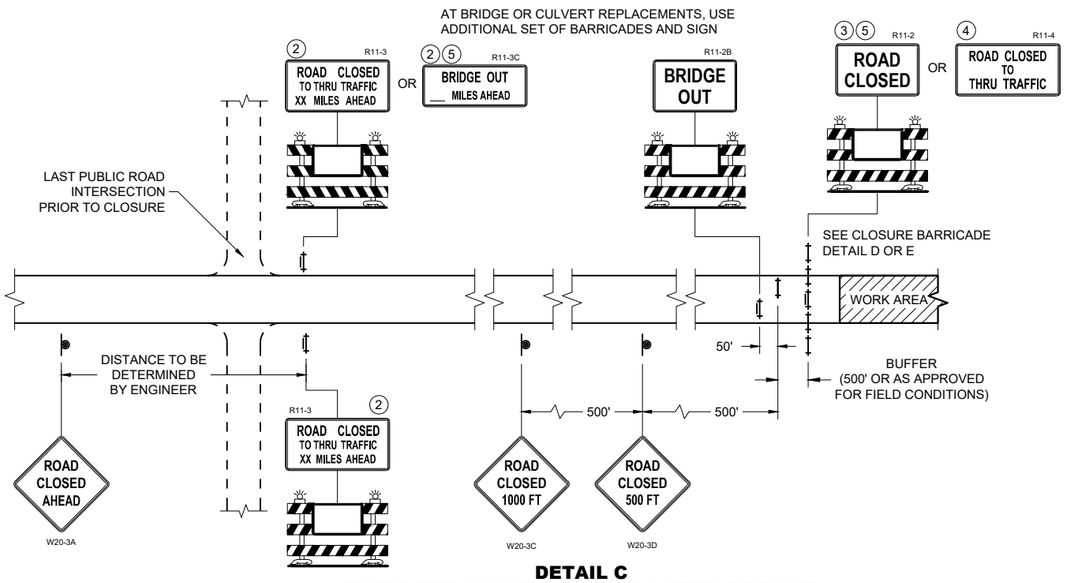
SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

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



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

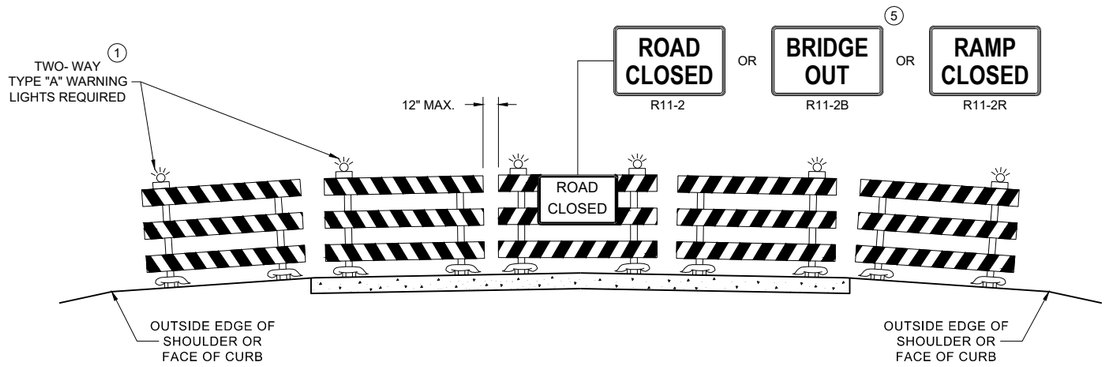
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

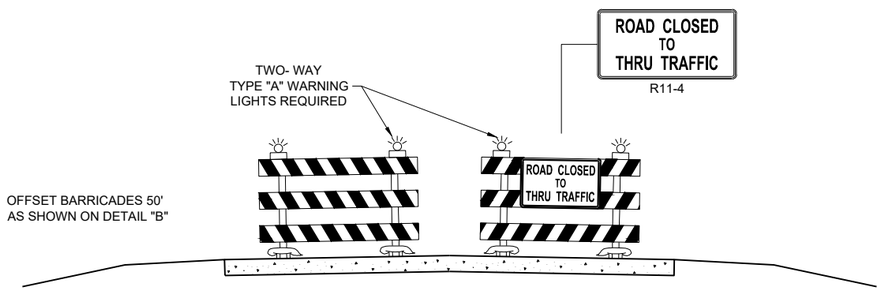
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SDD 15C02-10a



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.

PARTIAL NUMBERS ON SIGNS SHALL BE DISPLAYED AS A WHOLE NUMBER(AS NEEDED) FOLLOWED BY A FRACTION. SIGNS SHALL NOT DISPLAY NUMBERS IN DECIMAL FORM.

"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"

SIGNS PLACED ON TYPE III BARRICADES THAT ARE SIZES OTHER THAN 48"X30" SHALL HAVE A CORRUGATED POLYPROPYLENE OR POLYETHYLENE PLASTIC SIGN BASE.

(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
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6

SDD 15C02-10b

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.

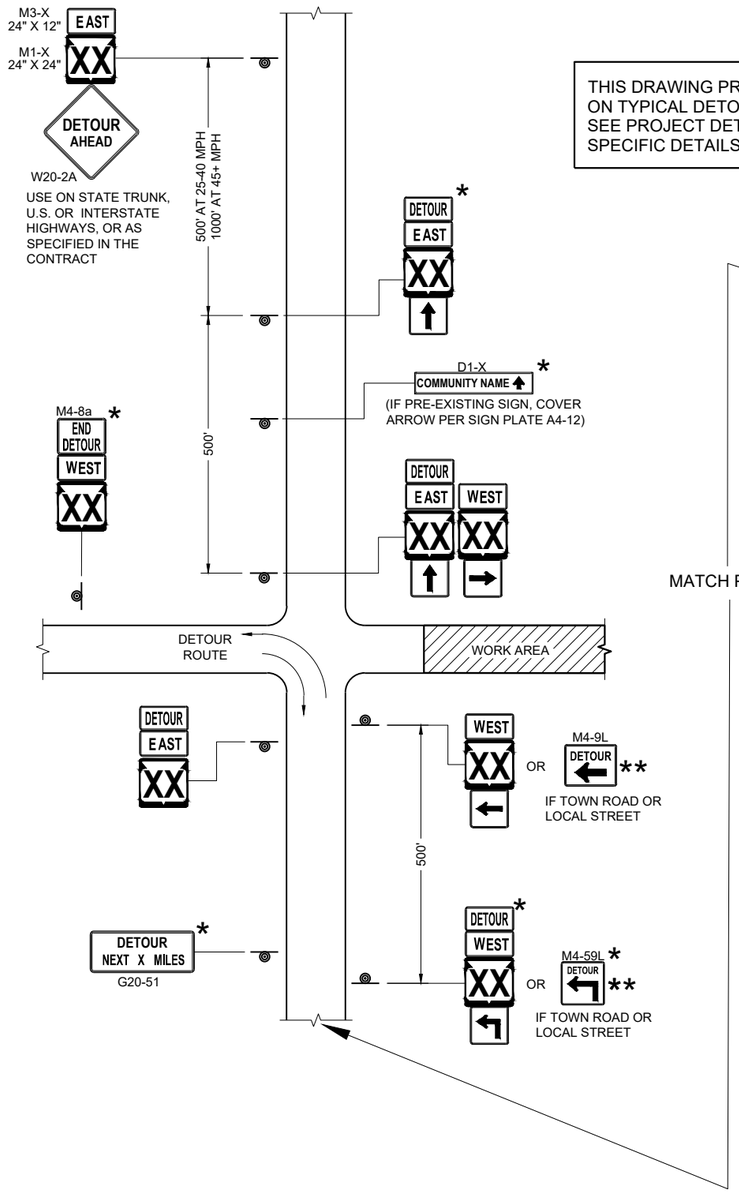
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

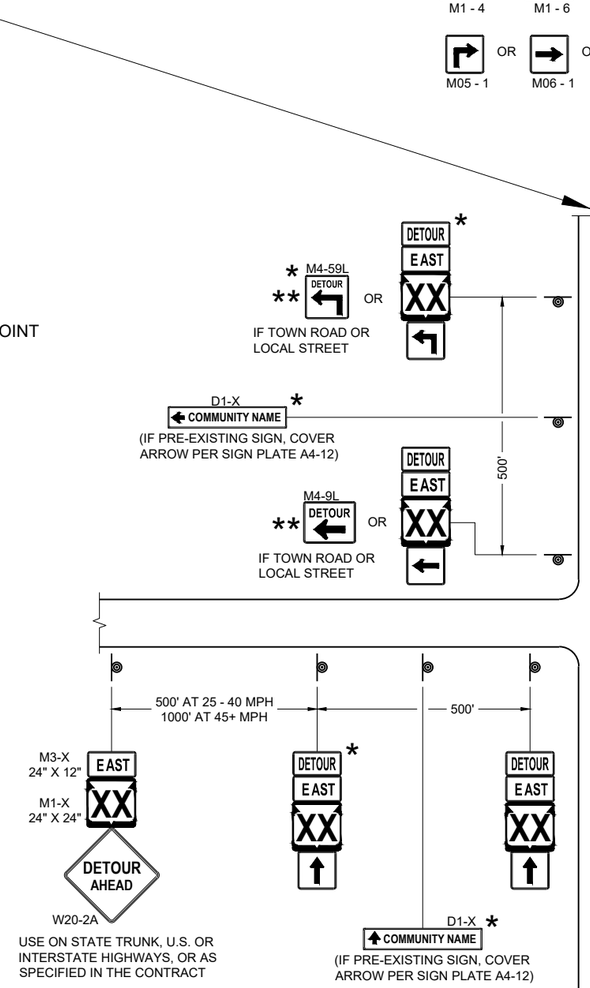
SIGN SIZES SHALL BE AS FOLLOWS:

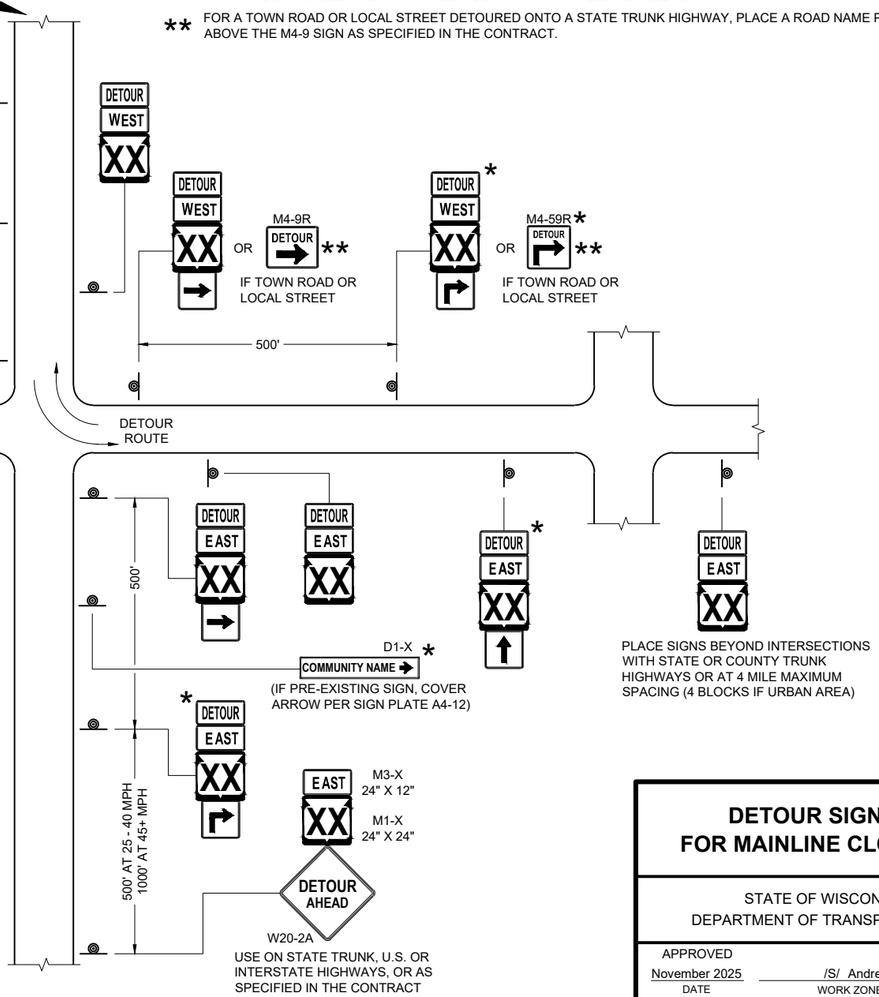
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING 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

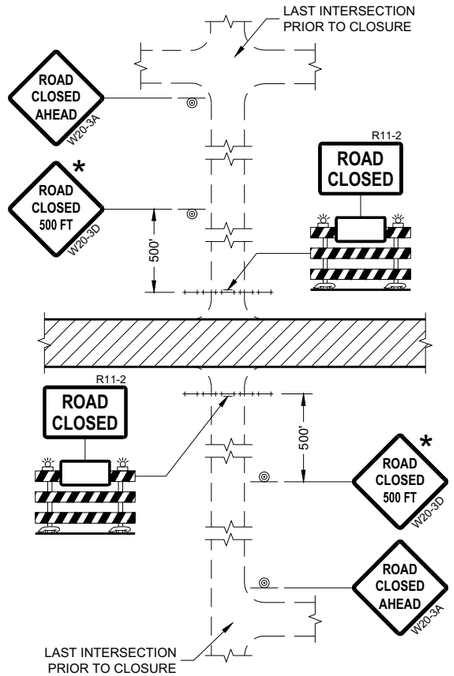
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

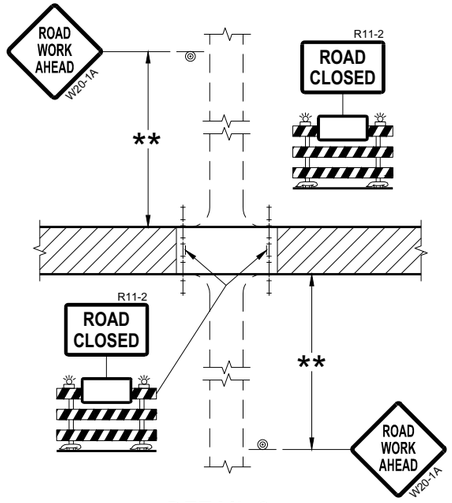
FHWA

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SDD 15C02-10c



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.

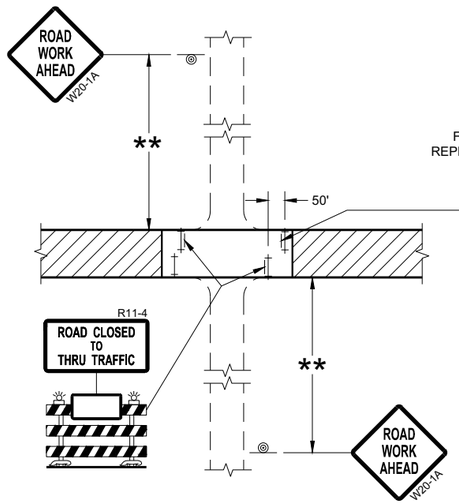
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

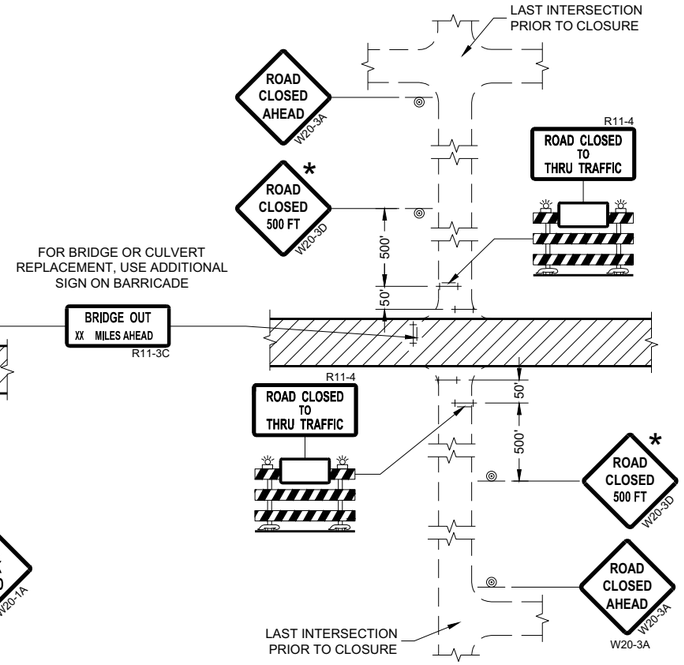
THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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 ENGINEE

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.

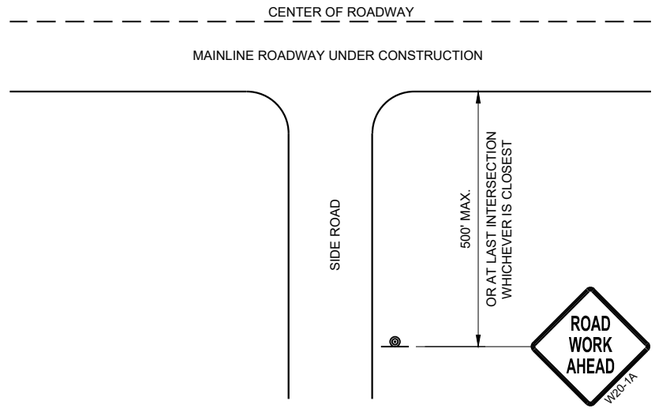
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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.



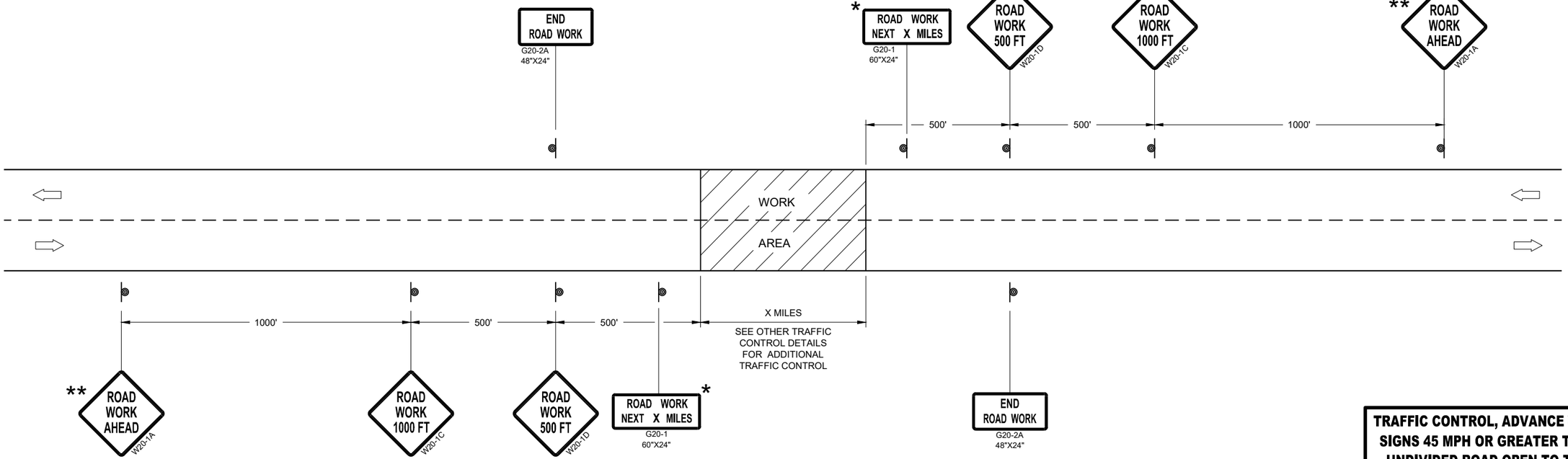
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

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 TRAFFIC

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.

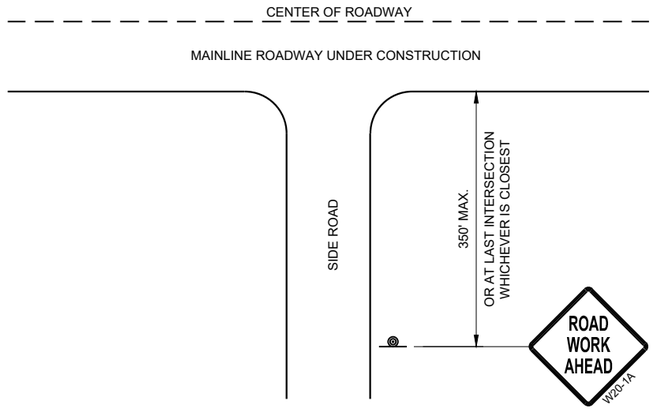
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.



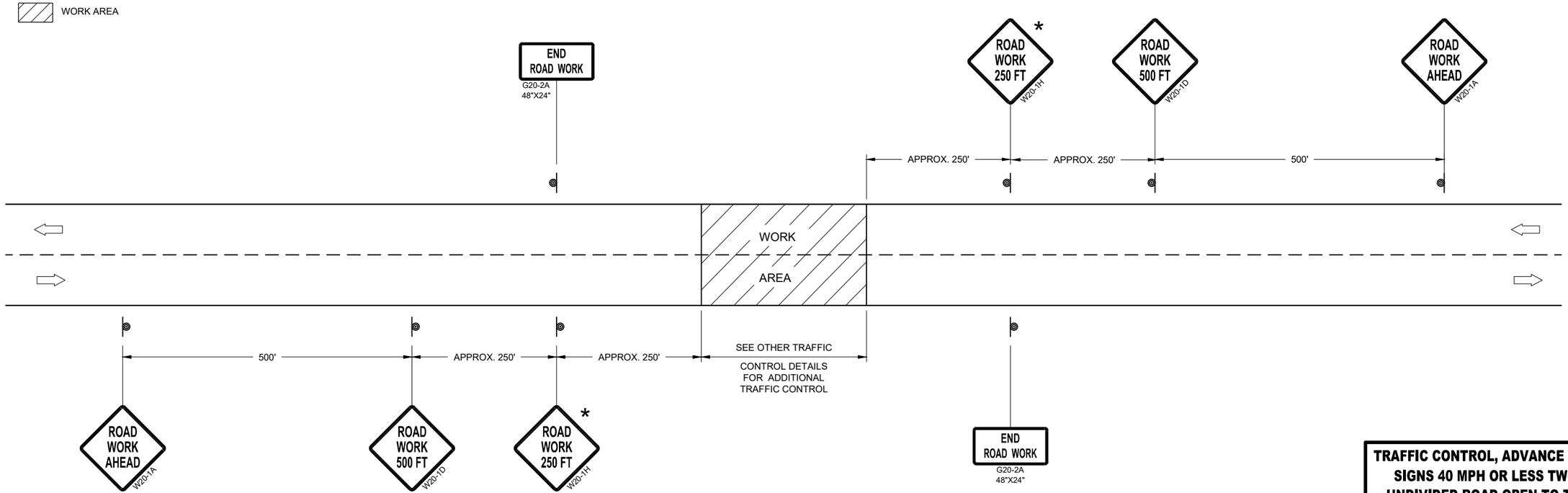
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

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 TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C05 - 05

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

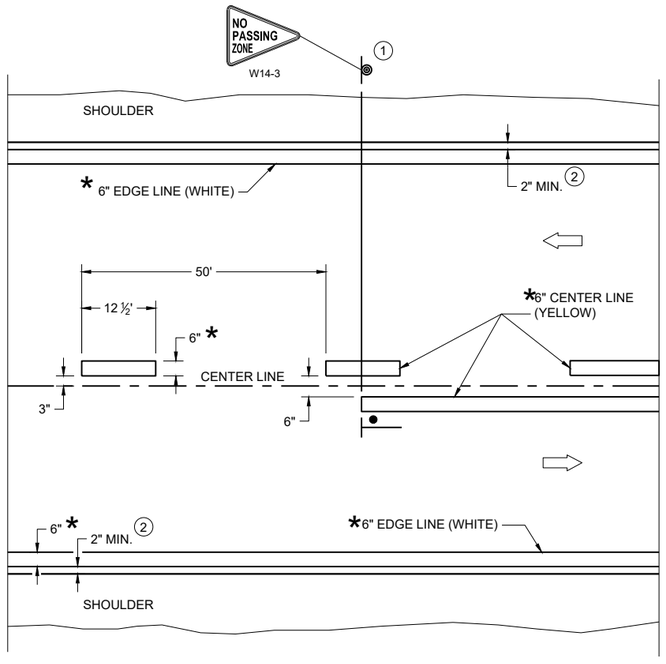
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

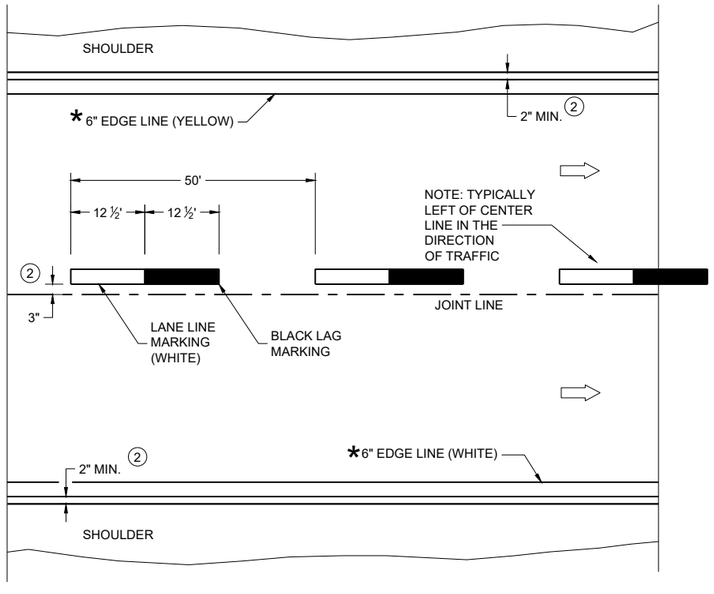
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

6

SDD 15C08-24a

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

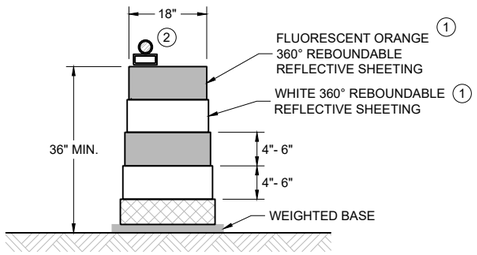
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SDD 15C08-24a

GENERAL NOTES

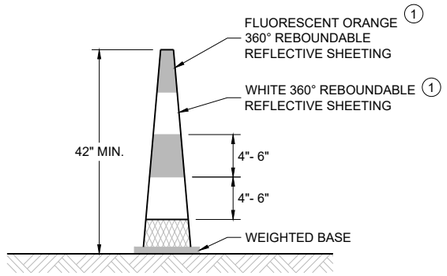
(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

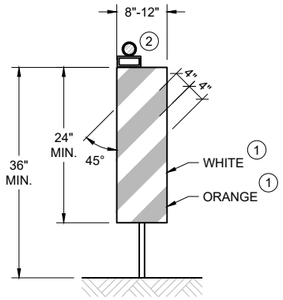
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

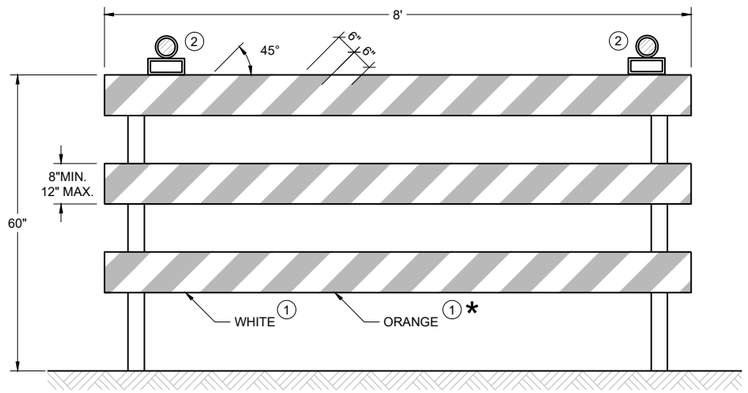
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



VERTICAL PANEL

THE 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
February 2026 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6
SDD 15C11-11b

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

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.

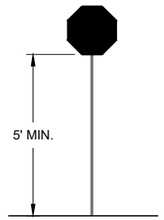
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM 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.



STOP/SLOW PADDLE ON SUPPORT STAFF

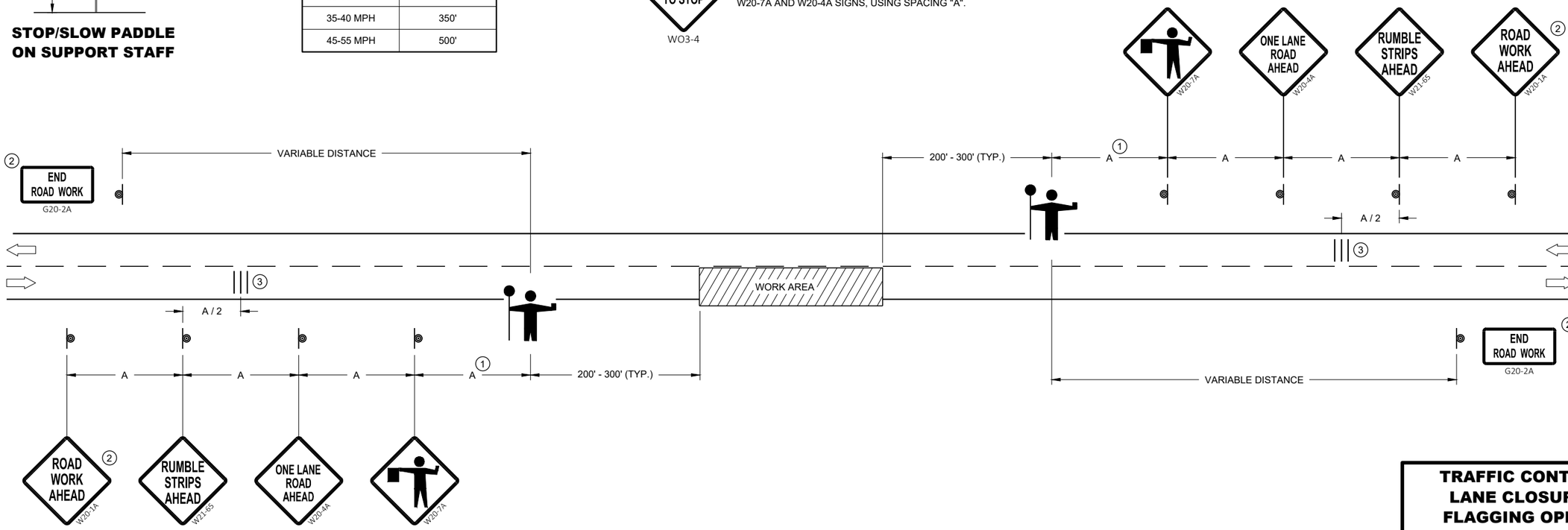
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

SDD 15C12 - 09a

SDD 15C12 - 09a

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.

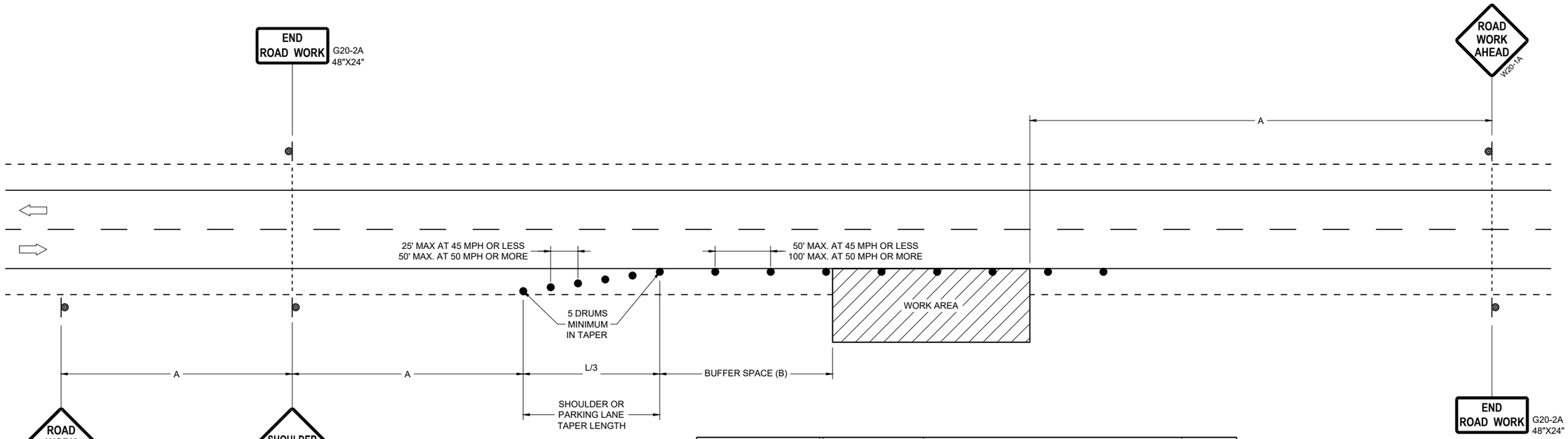
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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.



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	155
30	200'	15	20	25	30	35	40	200
35	350'	20	27	34	40	47	54	250
40	350'	26	35	44	53	62	70	305
45	500'	45	59	74	89	104	119	360
50	500'	50	66	83	99	116	132	425
55	500'	54	73	91	109	127	145	495

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

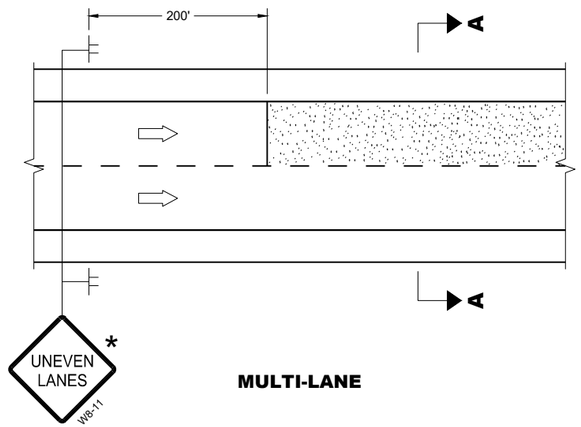
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2026
DATE

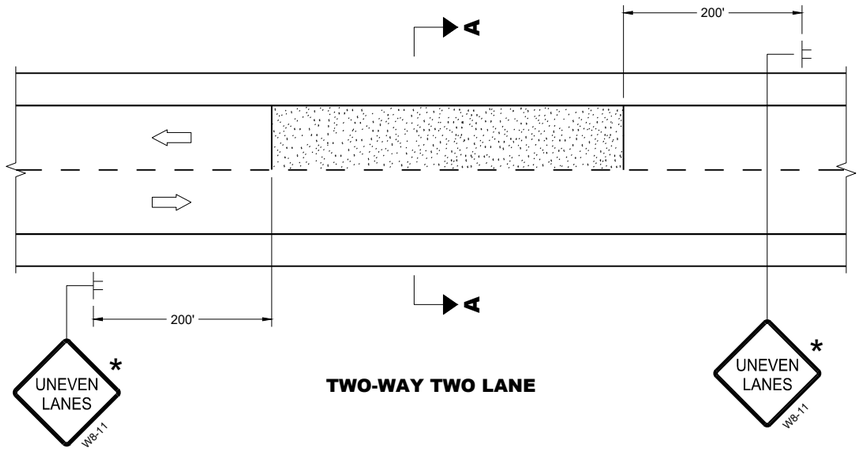
/S/ ANDREW HEIDTKE
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

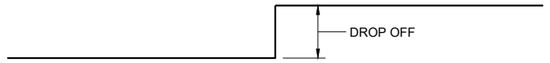
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SDD 15D28-06



MULTI-LANE

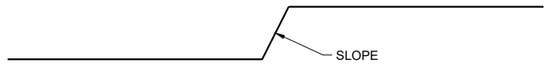


TWO-WAY TWO LANE

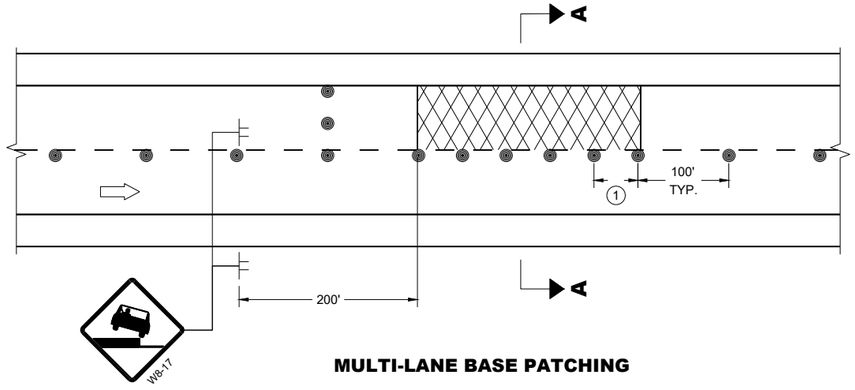


SECTION A - A

OR



SECTION A - A



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS

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.

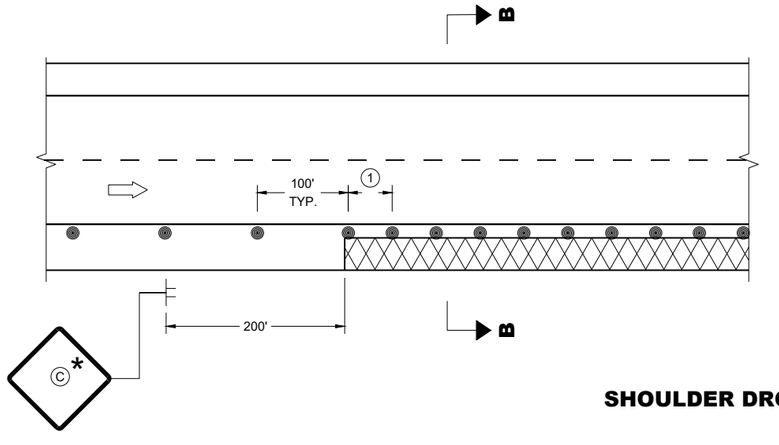
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

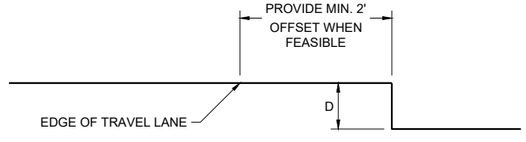
(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

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



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER W08-9
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
February 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6
SDD 15D39-03

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 OR LOOSE GRAVEL SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

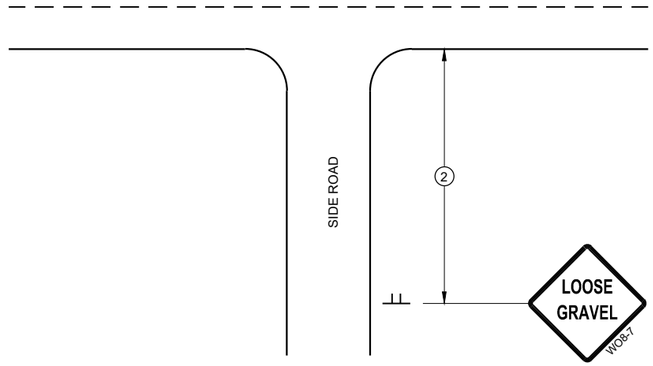
(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

(3) ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

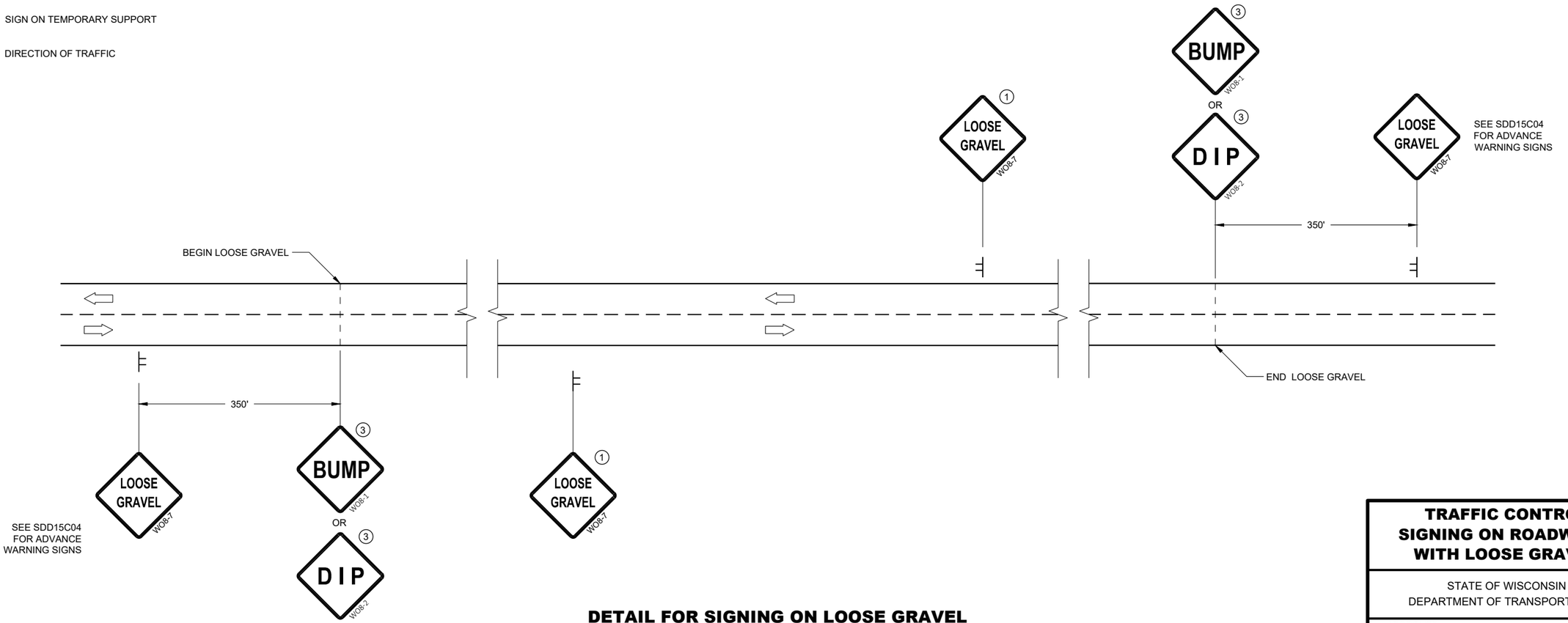
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON LOOSE GRAVEL OR CHIP SEALED SURFACES

TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

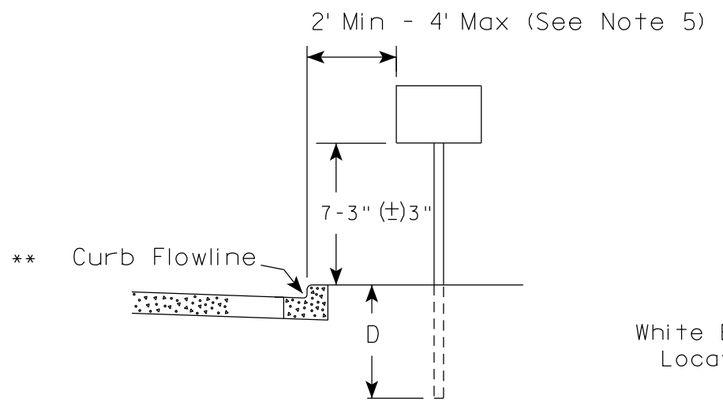
APPROVED
February 2021
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

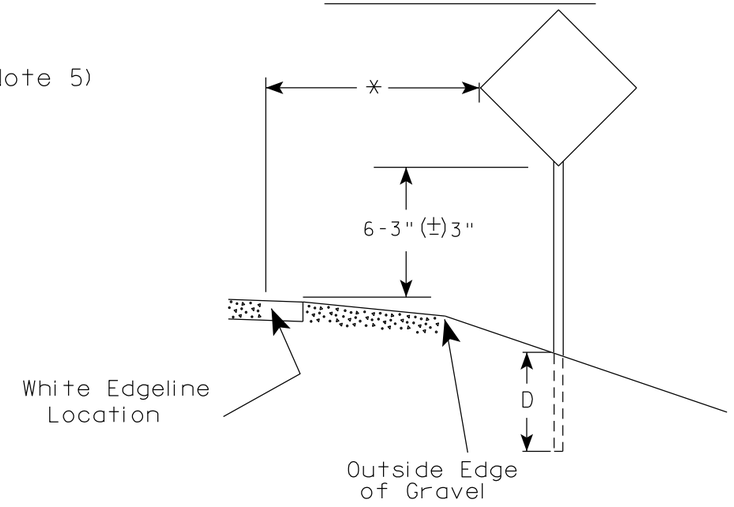
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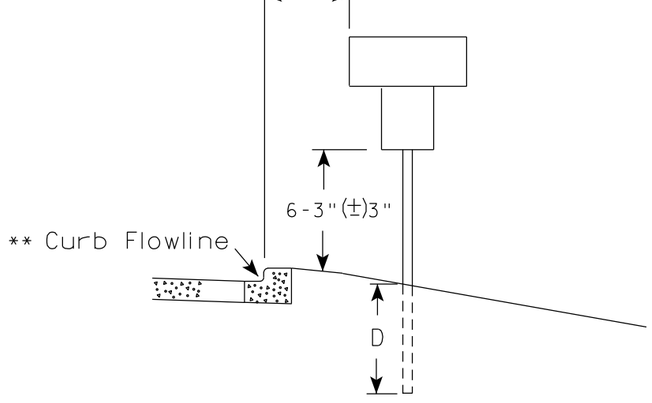
SDD 15D45 - 03

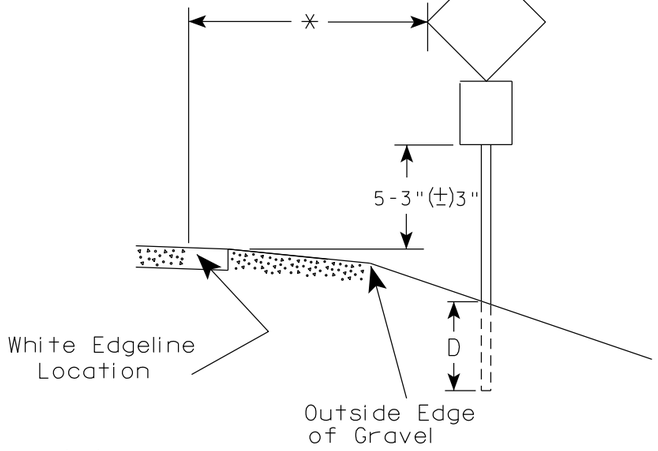
URBAN AREA



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" (±) 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".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

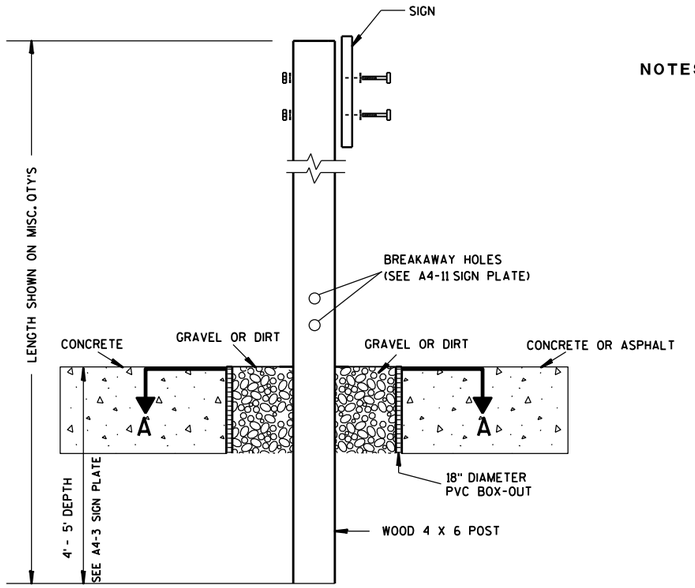
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

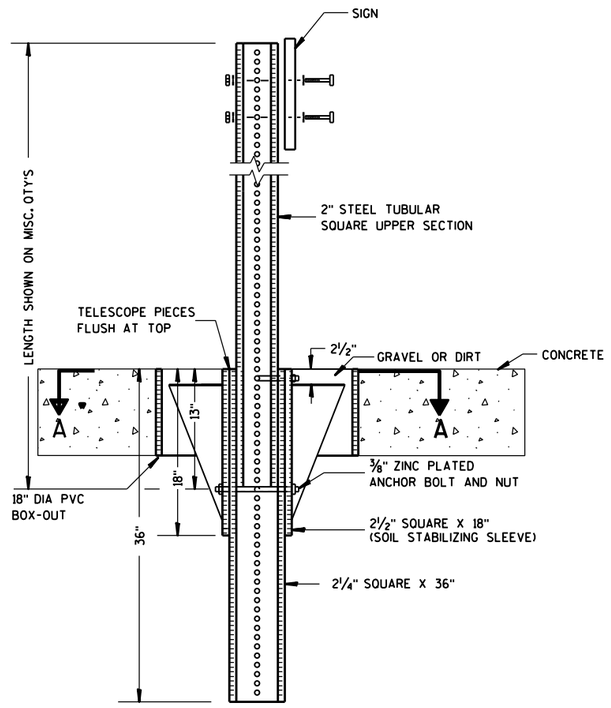
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 89	E



ELEVATION VIEW

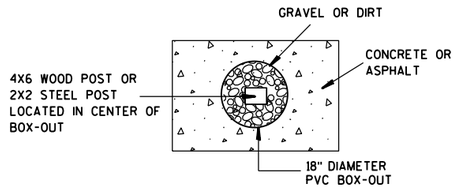
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

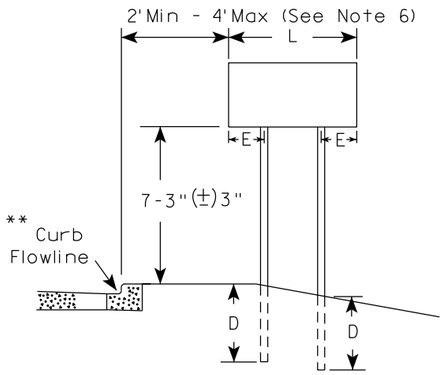
APPROVED Matthew R Rauch
for State Traffic Engineer

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

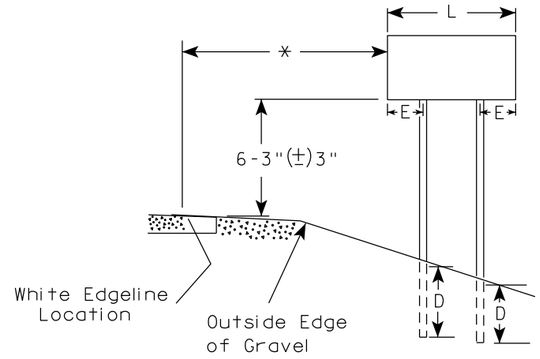
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

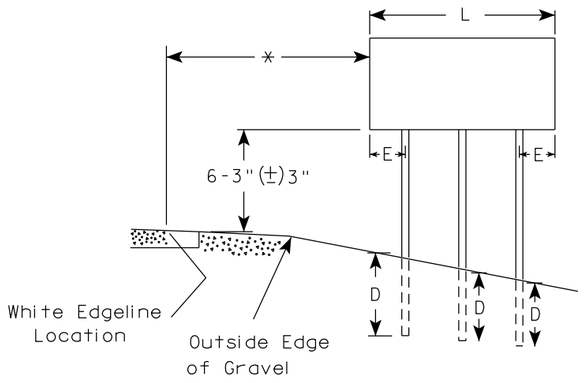
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

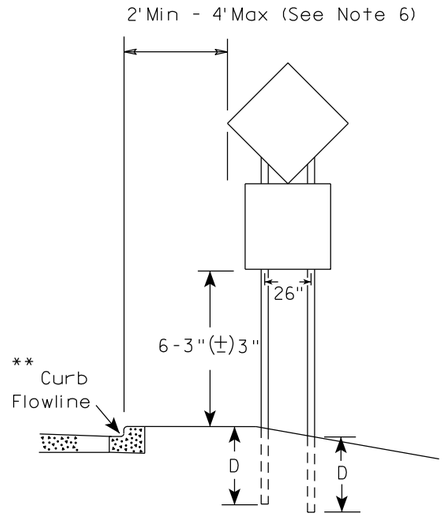
URBAN AREA



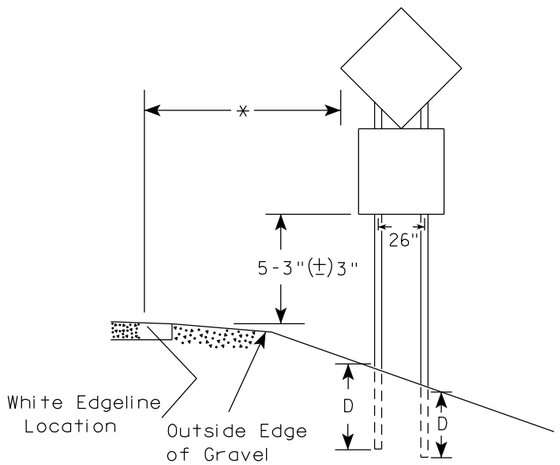
RURAL AREA (See Note 3)







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" (±) 3" or 6'-3" (±) 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" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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'

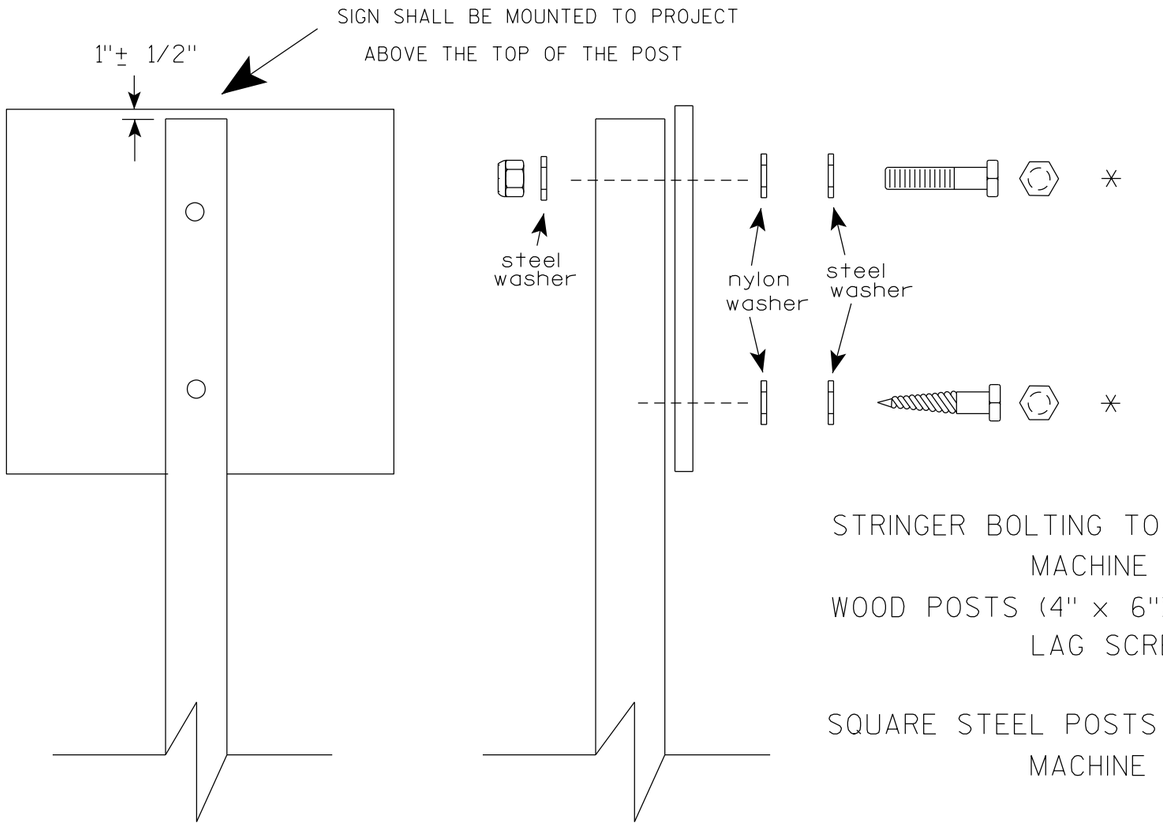
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 91	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

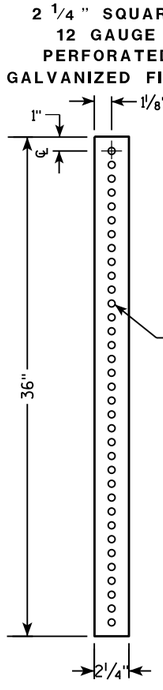
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

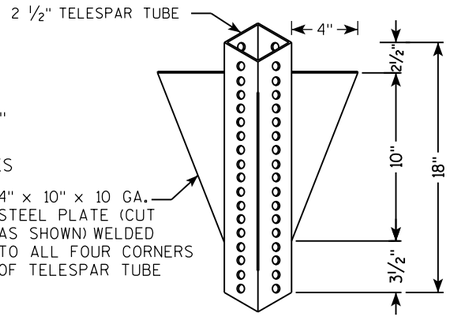
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

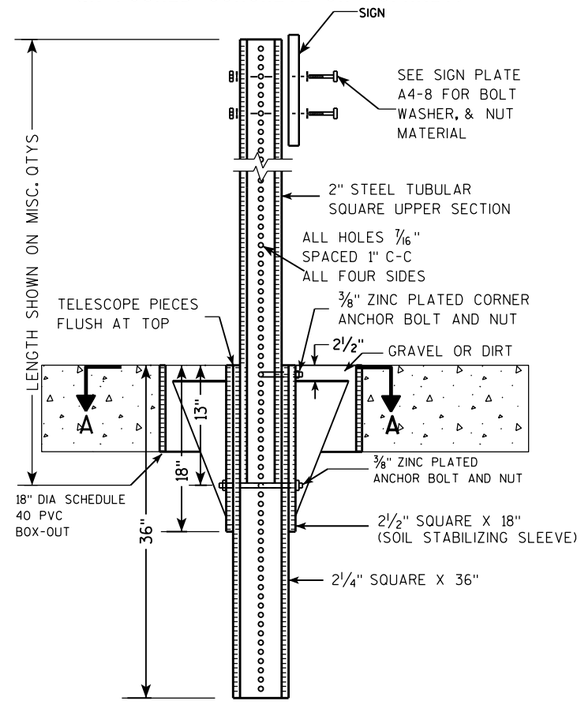
2 ¼ " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



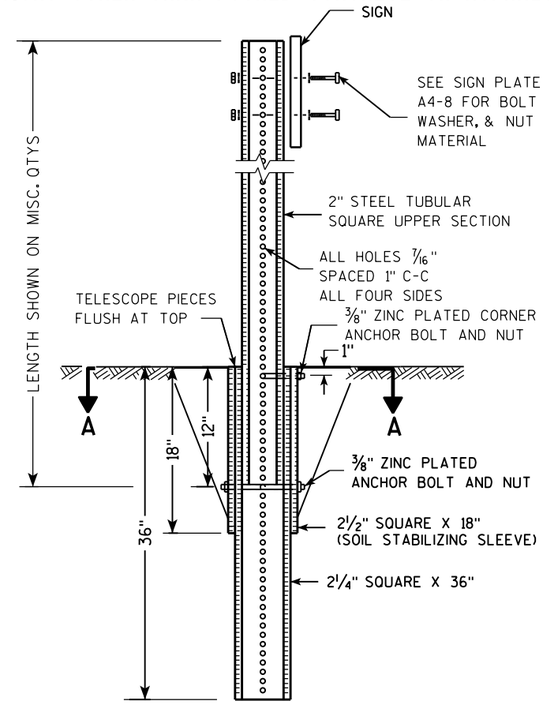
2 ½ " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

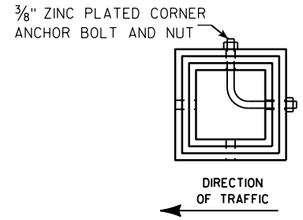


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

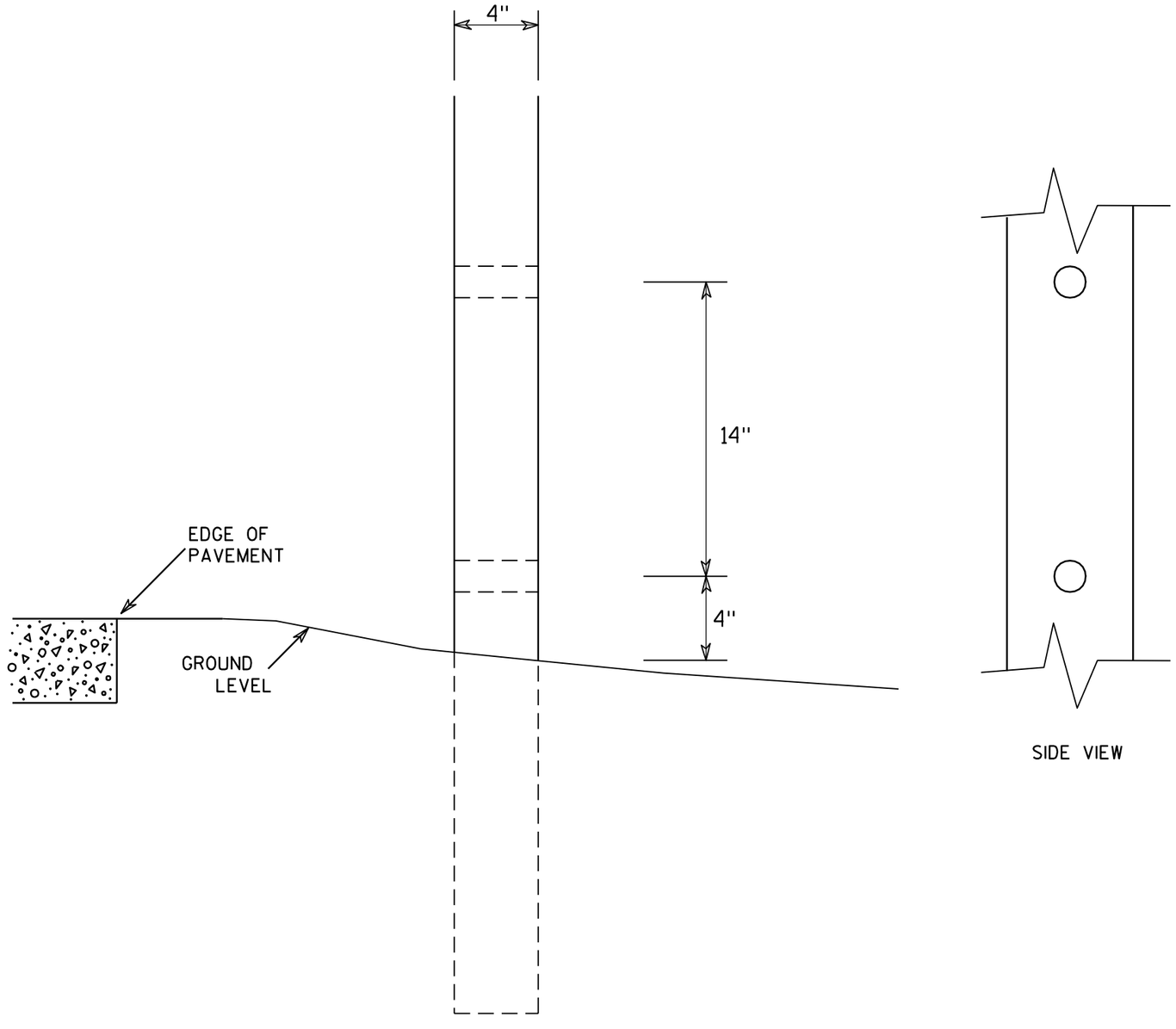
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 93 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.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

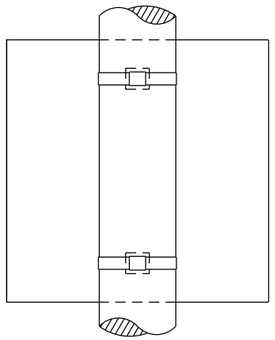
APPROVED Chester J Spang for State Traffic Engineer

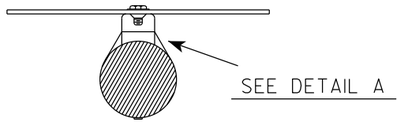
DATE 3/27/97 PLATE NO. A4-11.2

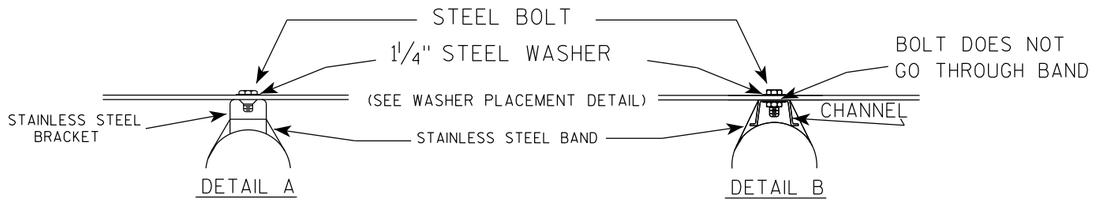
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 94	E

BANDING

SINGLE SIGN



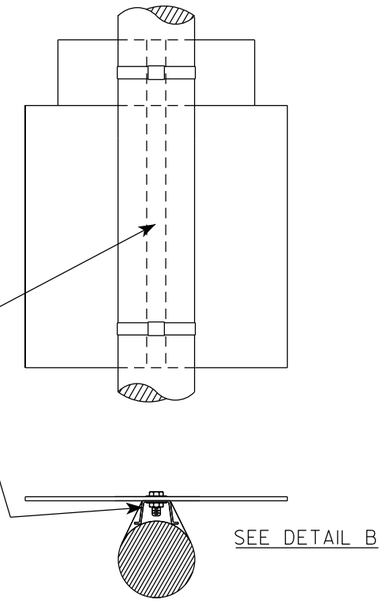




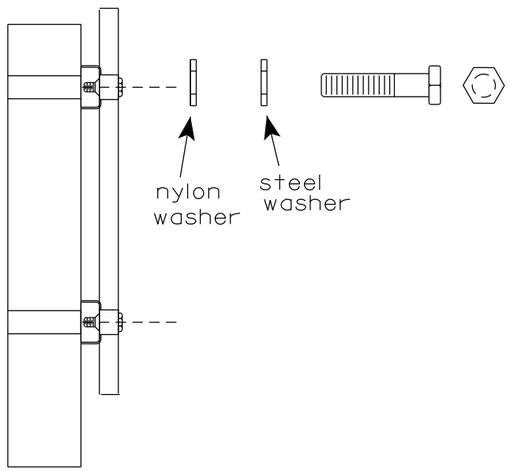
GENERAL NOTES

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



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

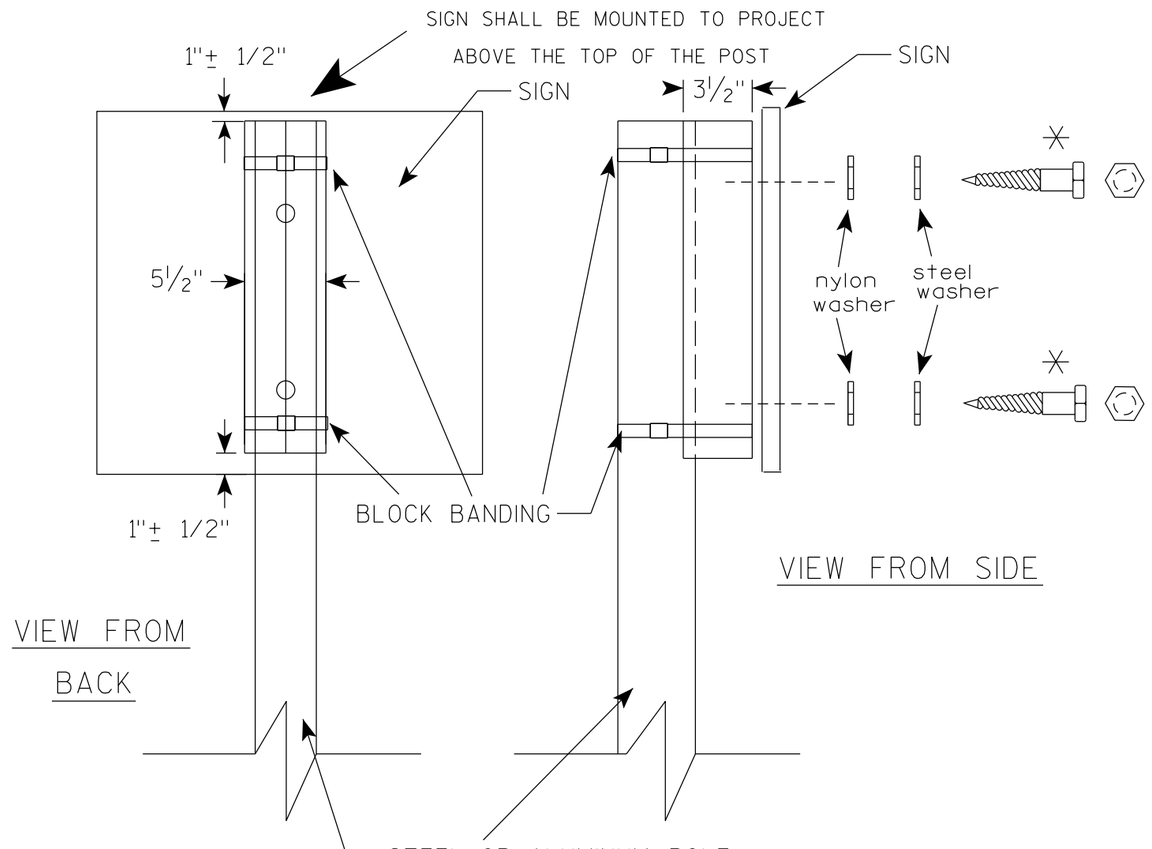
WISCONSIN DEPT OF TRANSPORTATION

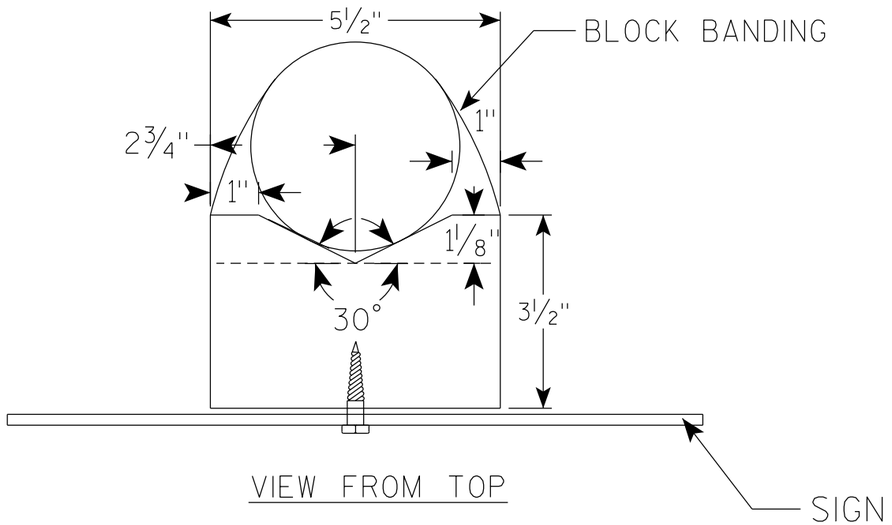
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 95	E

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





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)

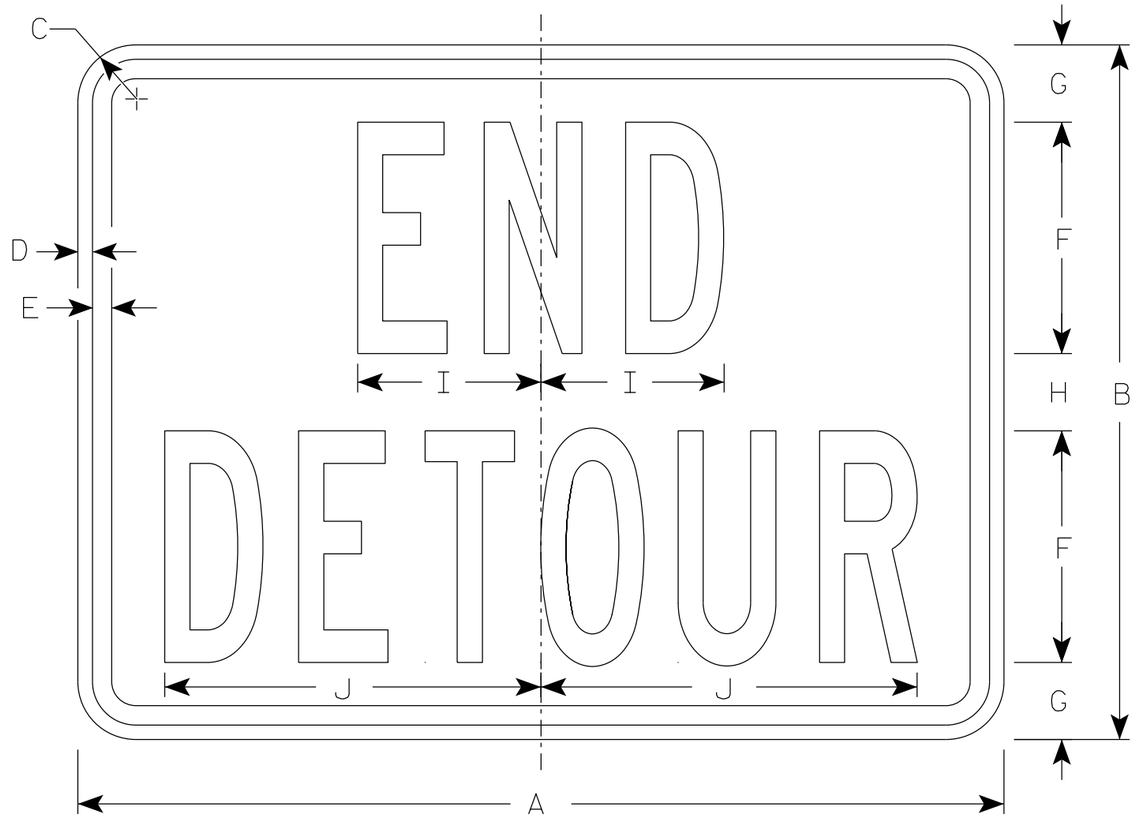
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 96 E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective
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	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
2M	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
3	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
4	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
5	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0

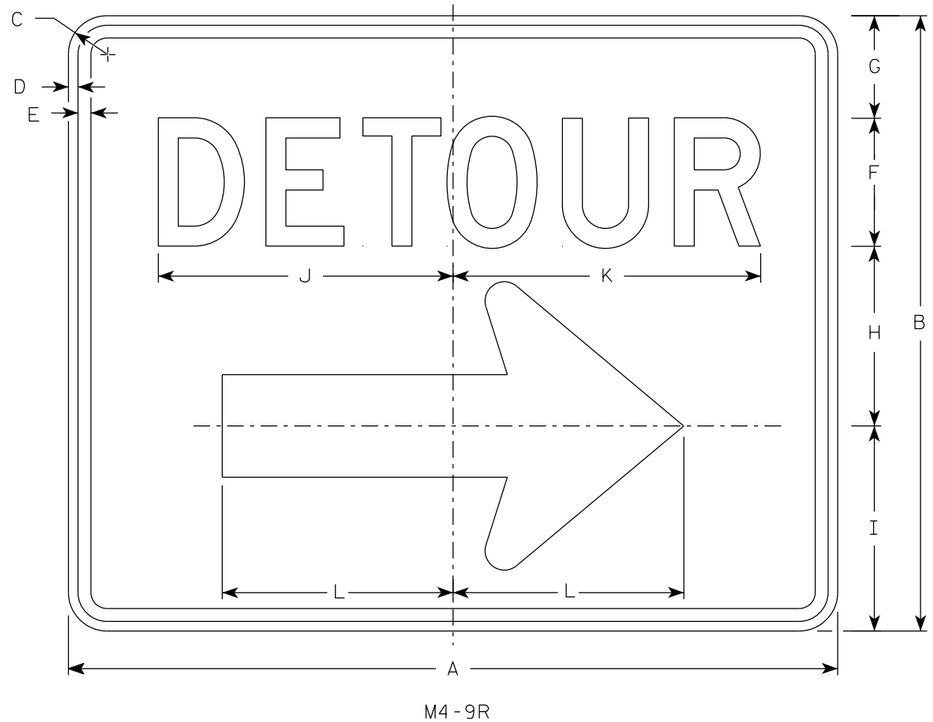
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

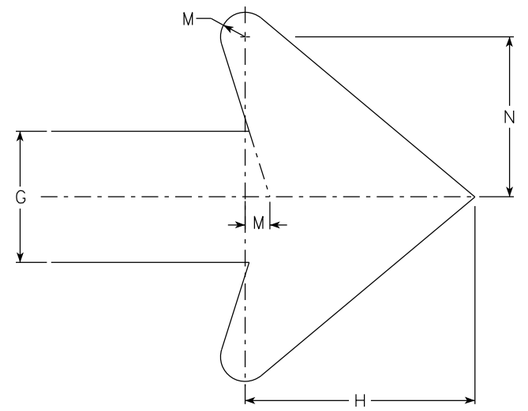
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 97 | E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective
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.
4. 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 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 7/8	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 7/8	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

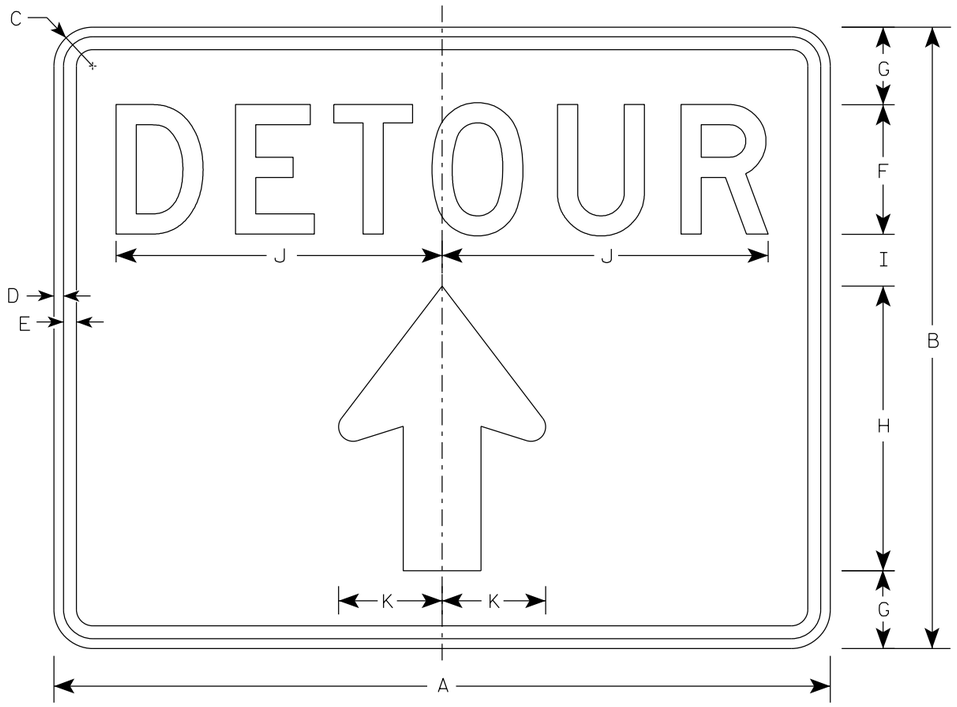
DATE 2/9/2023 PLATE NO. M4-9R.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

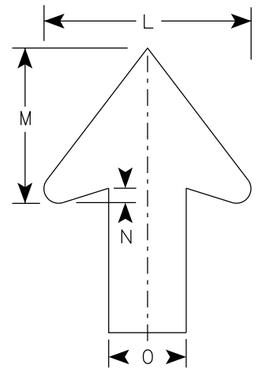
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M49R.dgn PLOT DATE : 21-MARCH 2023 1:40 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II-Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



M4-9RA



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																											
2S	30	24	1 1/2	3/8	1/2	5	3	11	2	12 5/8	4	8	6	1/2	3												5.00
2M	30	24	1 1/2	3/8	1/2	5	3	11	2	12 5/8	4	8	6	1/2	3												5.00
3																											
4																											
5																											

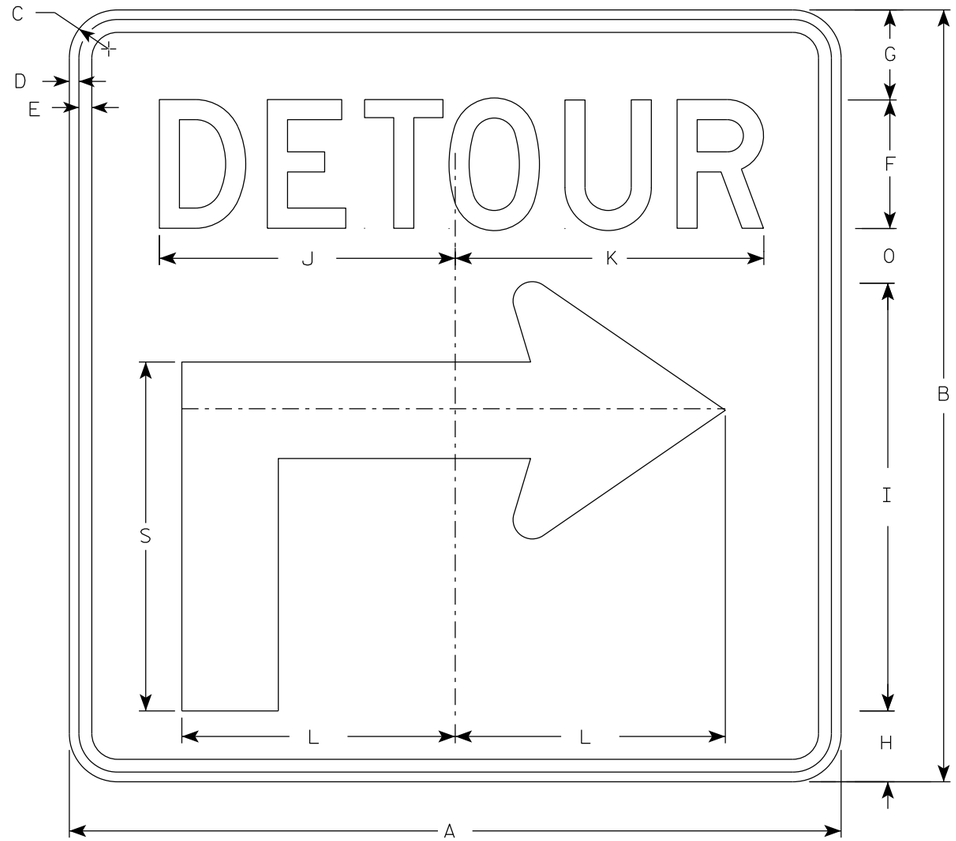
STANDARD SIGN
M4-9RA

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-9RA.3

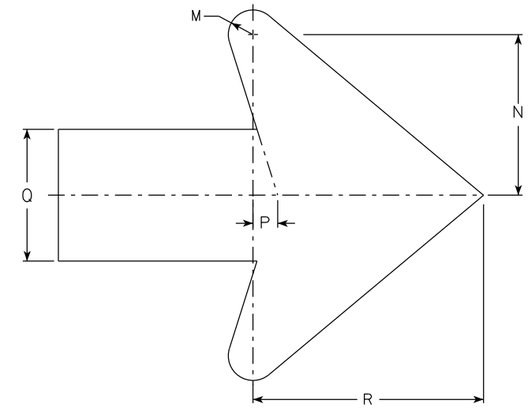
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 99	E



M4-59R

NOTES

1. Sign is Type II - Type F Reflective
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.
5. M4-59L is the same as M4-59R 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																											
2S	30	30	1 7/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 1/4	2 1/8	5/8	3 3/4	7 1/2	13 1/2								6.25
2M	30	30	1 7/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 1/4	2 1/8	5/8	3 3/4	7 1/2	13 1/2								6.25
3	30	30	1 7/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 1/4	2 1/8	5/8	3 3/4	7 1/2	13 1/2								6.25
4	48	48	2 1/4	1/2	5/8	8	5 5/8	4 3/8	26 5/8	20 5/8	20 1/2	17	1 1/4	6 3/4	3 3/8	7/8	6	12	21 3/4								16.0
5	48	48	2 1/4	1/2	5/8	8	5 5/8	4 3/8	26 5/8	20 5/8	20 1/2	17	1 1/4	6 3/4	3 3/8	7/8	6	12	21 3/4								16.0

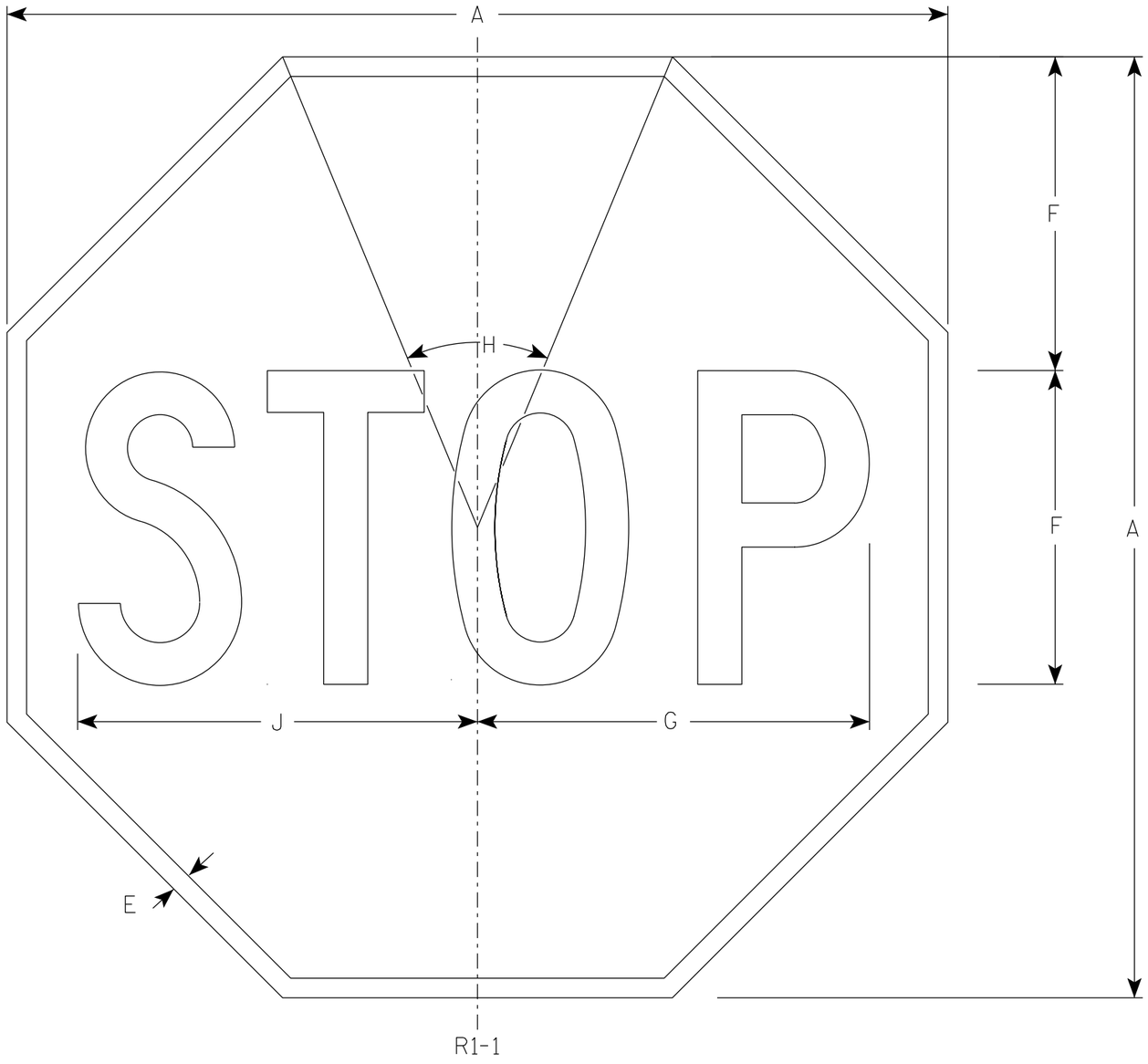
STANDARD SIGN
M4-59 L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/10/26 PLATE NO. M4-59.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 100	E



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Red
   Message - White
3. Message Series - C

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	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86

STANDARD SIGN

R1-1

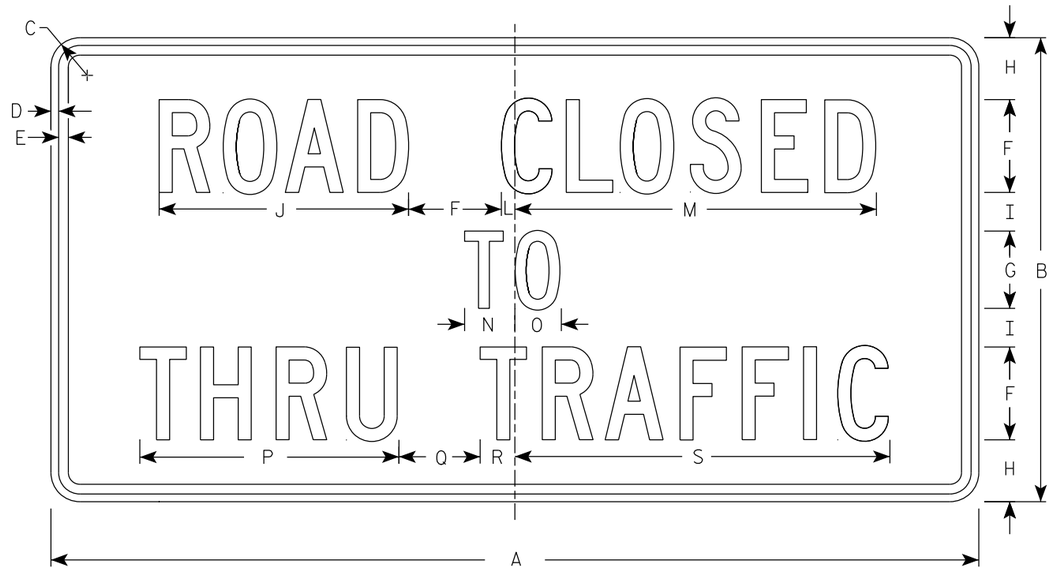
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/9/2025 PLATE NO. R1-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 101 | E

7



R11-4

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.

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																											
2S	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

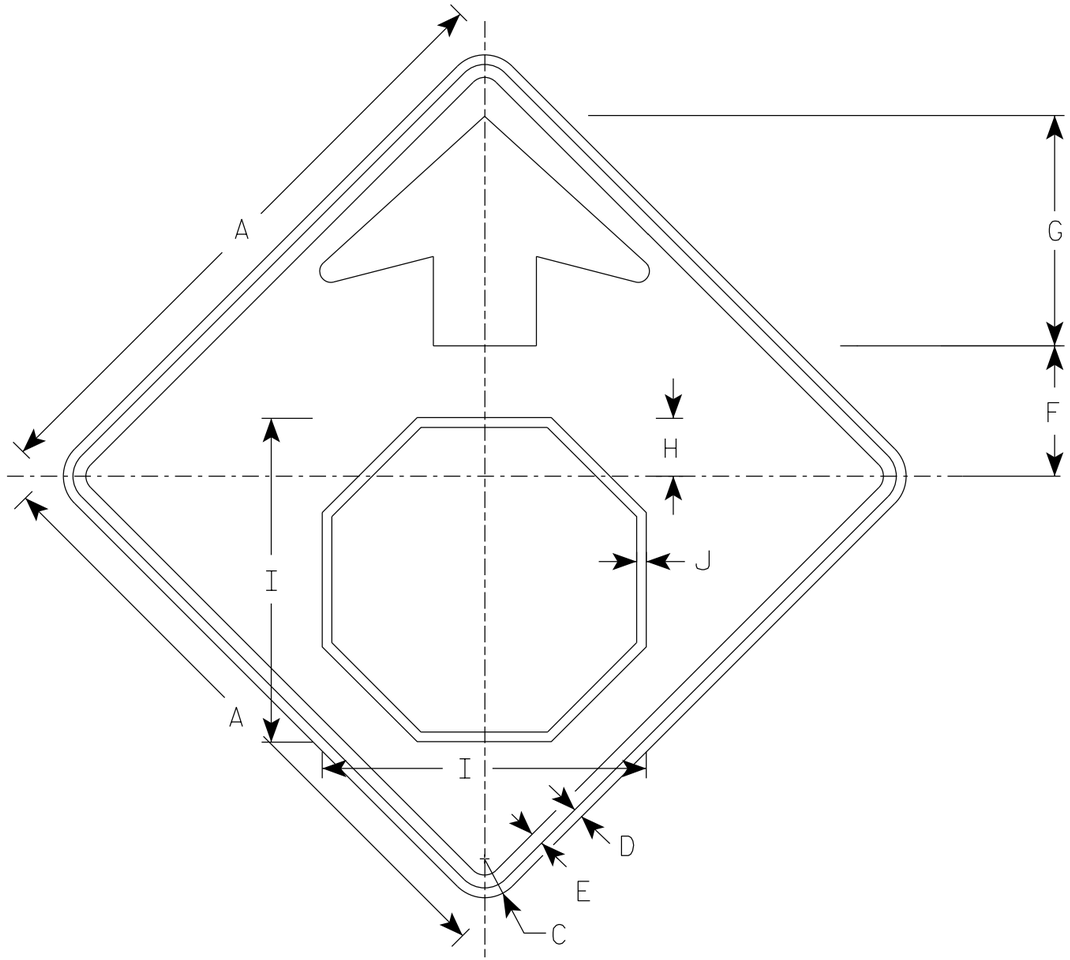
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-4.4

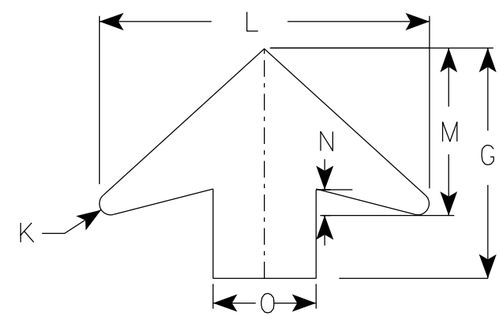
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 102 | E



W3-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Arrow & Border - Black
   Stop Symbol - White Border on Red Background



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	30		1 7/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		3	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		3	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/17/2023 PLATE NO. W3-1.13

PROJECT NO:

SHEET NO: 103 E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - B



W4-4P

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																											
2S	24	12	1 1/2	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
2M	24	12	1 1/2	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
3	36	15	1 1/2	3/8	1/2	4	2 5/8	1 3/4	10 3/4	2 3/8	3/8	13 1/2	8 3/8	3	3 1/8	8 3/8											3.75
4	42	18	1 1/2	3/8	1/2	5	3	2	13 3/8	3 1/8	3/8	16 7/8	10 1/2	3 5/8	3 7/8	10 3/8											5.25
5																											

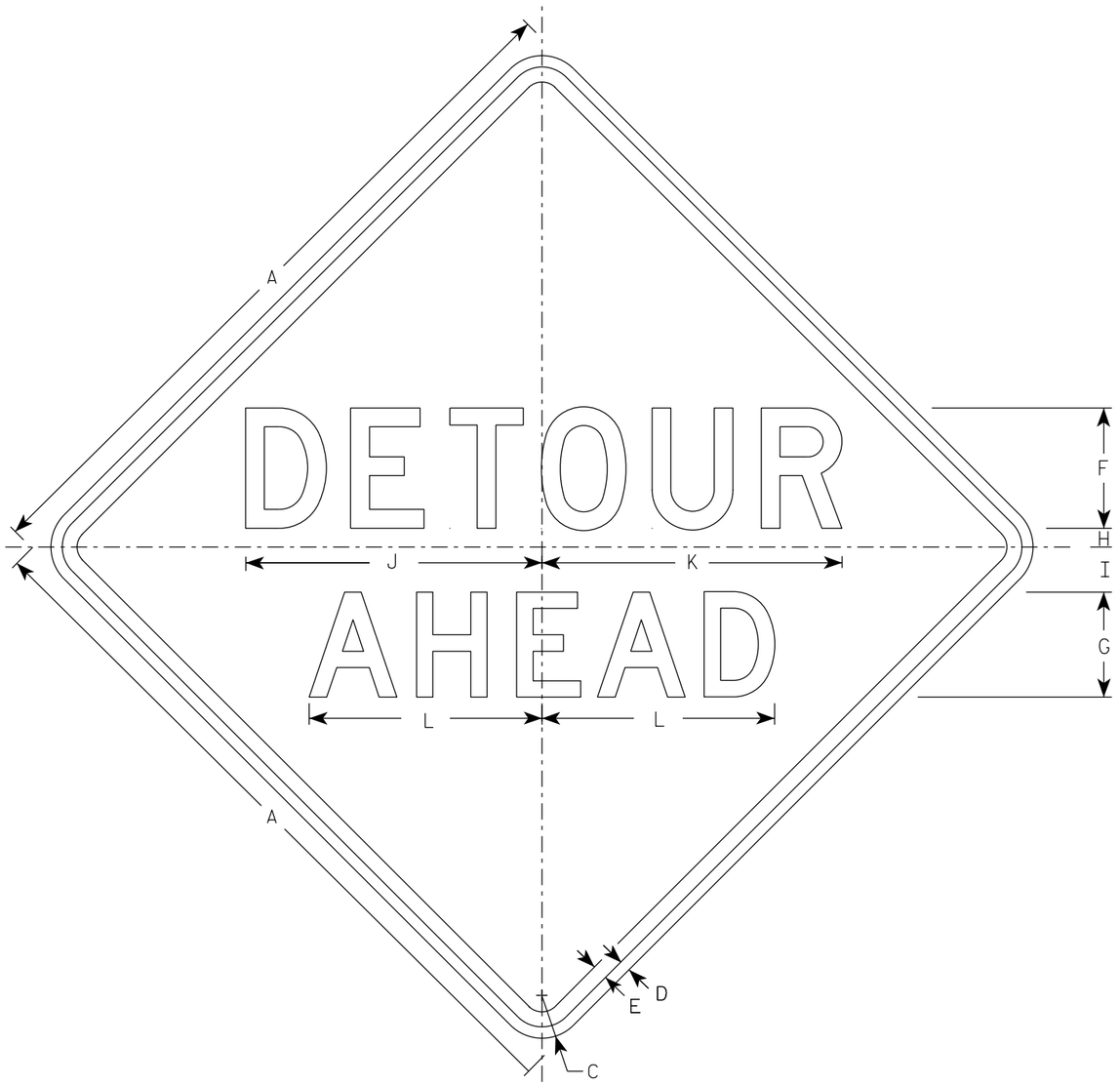
STANDARD SIGN
W4-4P

WISCONSIN DEPT OF TRANSPORTATION

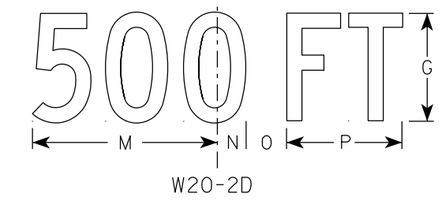
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 9/5/2023 PLATE NO. W4-4P.3

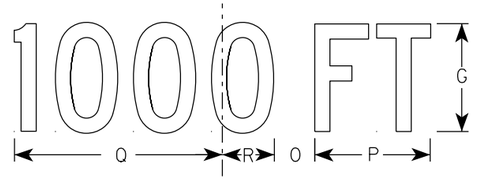
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 104 E



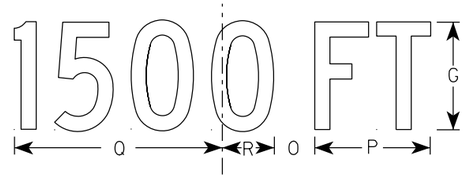
W20-2A



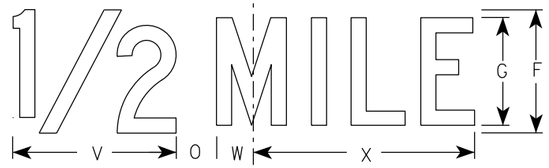
W20-2D



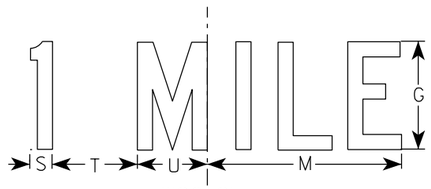
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective
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	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	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		3	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		3	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		3	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		3	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		3	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

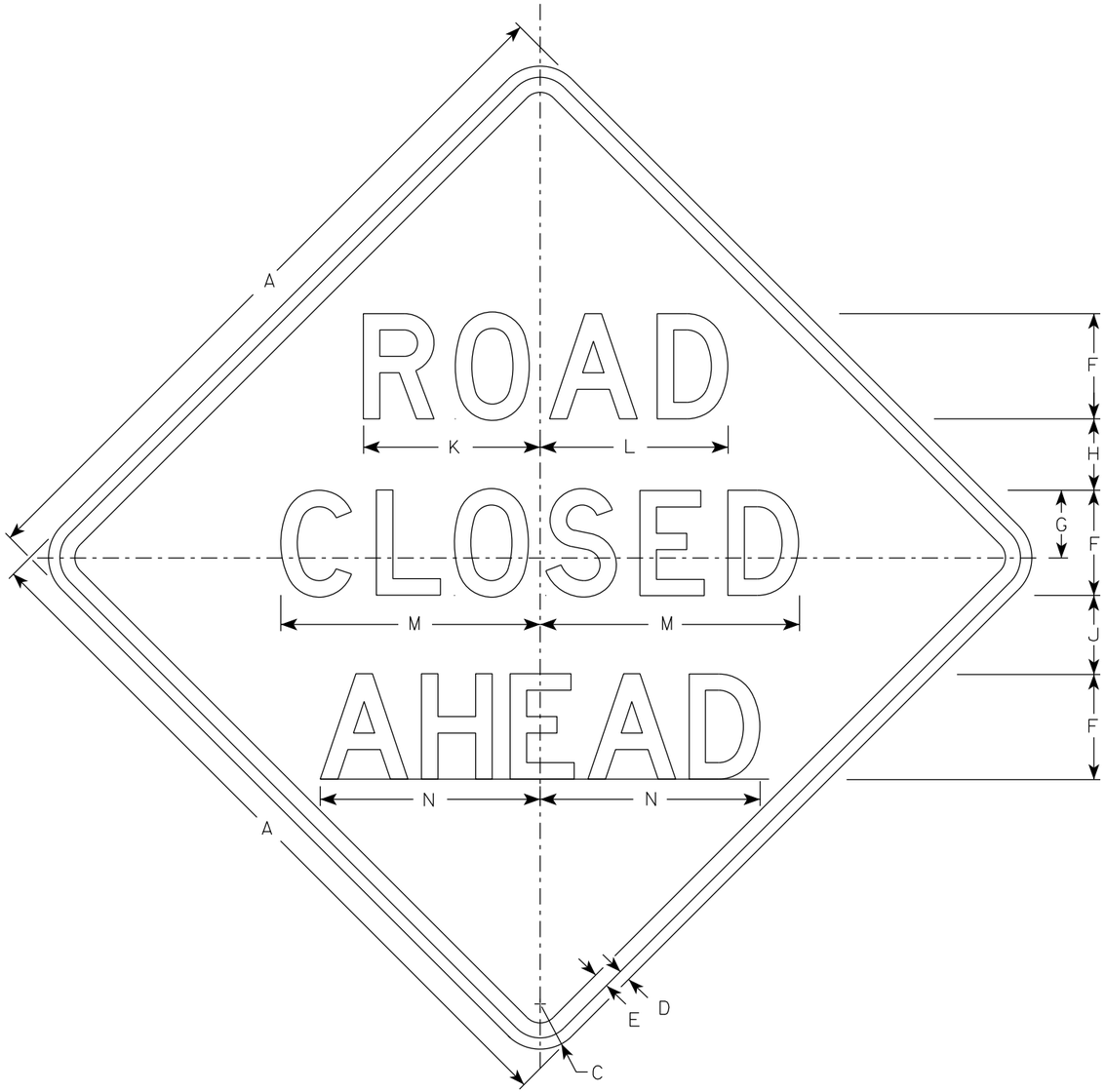
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

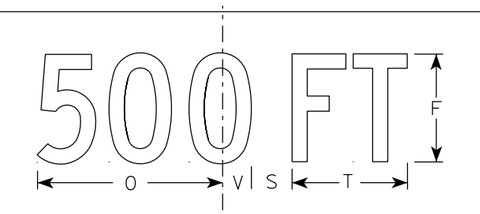
DATE 1/10/2024 PLATE NO. W20-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

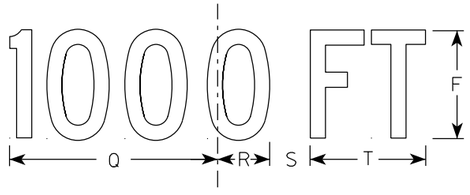
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W202.DGN PLOT DATE : 10-JAN 2024 11:36 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



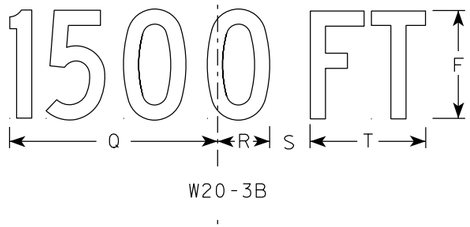
W20-3A



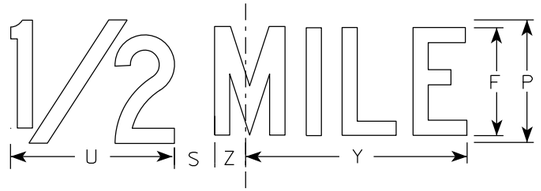
W20-3D



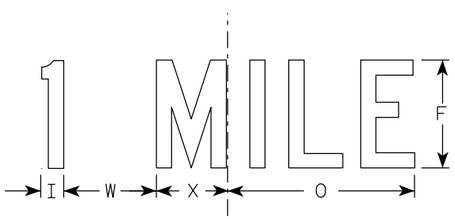
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective
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. Lines 1 and 2 are Series D.
   Line 3 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	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-3.8

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W203.DGN PLOT DATE : 10-JAN 2024 12:02 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

DIVISION - ZENDA RD

STATION	REAL 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	1.00	1.00	1.00	
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 5	NOTE 7	NOTE 8
100+95.00	10095.00	0.00	12.80	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
101+00.00	10100.00	5	0.00	0.00	0.00	0.00	1	0	0	0	1	0	0	0	1
101+05.00	10105.00	5	0.00	0.00	0.00	0.00	0	0	0	0	1	0	0	0	1
101+10.00	10110.00	5	0.00	0.00	0.00	0.00	0	0	0	0	1	0	0	0	1
101+15.00	10115.00	5	0.00	0.00	0.00	0.00	0	0	0	0	1	0	0	0	1
101+20.00	10120.00	5	0.00	0.00	0.00	0.00	0	0	0	0	1	0	0	0	1
101+25.00	10125.00	5	0.00	0.00	0.00	0.00	0	0	0	0	1	0	0	0	1
101+30.00	10130.00	5	0.00	0.00	0.00	0.00	0	0	0	0	1	0	0	0	1
101+35.00	10135.00	5	0.00	0.00	0.00	0.00	0	0	0	0	1	0	0	0	1
101+40.00	10140.00	5	0.00	0.00	0.00	0.00	0	0	0	0	1	0	0	0	1
101+45.00	10145.00	5	0.00	0.00	0.00	0.00	0	0	0	0	1	0	0	0	1
101+50.00	10150.00	5	0.65	0.00	0.00	0.00	0	0	0	0	1	0	0	0	1
101+55.00	10155.00	5	5.07	0.00	0.15	0.00	1	0	0	0	2	0	0	0	2
101+75.00	10175.00	20	0.33	0.00	0.77	0.00	2	0	0	0	4	0	0	0	4
102+00.00	10200.00	25	0.68	0.00	0.03	0.00	0	0	0	0	4	0	0	0	4
103+00.00	10300.00	100	0.35	0.00	5.46	0.00	2	0	10	0	6	10	0	0	-4
103+18.50	10318.50	18.5	13.83	0.00	0.01	0.00	5	0	2	0	11	12	0	0	-1
104+00.00	10400.00	81.5	18.65	0.00	1.61	0.00	49	0	2	0	60	14	0	0	46
104+43.19	10443.19	43.19	13.71	0.00	0.00	0.00	26	0	1	0	86	15	0	0	71
105+00.00	10500.00	56.81	0.00	0.00	9.05	0.00	14	0	10	0	100	25	0	0	75
106+00.00	10600.00	100	0.06	0.00	5.08	0.00	0	0	26	0	100	51	0	0	49
107+00.00	10700.00	100	7.87	0.00	1.53	0.00	15	0	12	0	115	63	0	0	52
108+00.00	10800.00	100	2.24	0.00	4.72	0.00	19	0	12	0	134	75	0	0	59
108+37.32	10837.32	37.32	10.26	0.00	2.40	0.00	9	0	5	0	143	80	0	0	63
109+00.00	10900.00	62.68	4.87	0.00	5.82	0.00	18	0	10	0	161	90	0	0	71
109+74.96	10974.96	74.96	7.60	0.00	7.03	0.00	17	0	18	0	178	108	0	0	70
110+00.00	11000.00	25.04	4.12	0.00	9.35	0.00	5	0	8	0	183	116	0	0	67
111+00.00	11100.00	100	2.44	0.00	9.25	0.00	12	0	34	0	195	150	0	0	45
112+00.00	11200.00	100	6.80	0.00	3.85	0.00	17	0	24	0	212	174	0	0	38
113+00.00	11300.00	100	3.14	0.00	5.06	0.00	18	0	17	0	230	191	0	0	39
113+56.00	11356.00	56	0.55	0.00	11.69	0.00	4	0	17	0	234	208	0	0	26
114+00.00	11400.00	44	3.67	0.00	8.00	0.00	3	0	16	0	237	224	0	0	13
115+00.00	11500.00	100	3.78	0.00	6.41	0.00	14	0	27	0	251	251	0	0	0
116+00.00	11600.00	100	7.29	0.00	2.45	0.00	21	0	16	0	272	267	0	0	5
116+62.31	11662.31	62.31	19.83	0.00	0.30	0.00	31	0	3	0	303	270	0	0	33
117+00.00	11700.00	37.69	10.69	0.00	0.44	0.00	21	0	1	0	324	271	0	0	53
117+59.18	11759.18	59.18	20.36	0.00	0.00	0.00	34	0	0	0	358	271	0	0	87
118+00.00	11800.00	40.82	4.06	0.00	2.25	0.00	18	0	2	0	376	273	0	0	103
119+00.00	11900.00	100	18.50	0.00	0.00	0.00	42	0	4	0	418	277	0	0	141
120+00.00	12000.00	100	17.64	0.00	0.37	0.00	67	0	1	0	485	278	0	0	207
121+00.00	12100.00	100	2.36	0.00	7.76	0.00	37	0	15	0	522	293	0	0	229
122+00.00	12200.00	100	1.70	0.00	7.48	0.00	8	0	28	0	530	321	0	0	209
123+00.00	12300.00	100	3.44	0.00	5.17	0.00	10	0	23	0	540	344	0	0	196
124+00.00	12400.00	100	0.95	0.00	10.12	0.00	8	0	28	0	548	372	0	0	176
125+00.00	12500.00	100	0.00	0.00	19.06	0.00	2	0	54	0	550	426	0	0	124

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP 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	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

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DIVISION - ZENDA RD

STATION	REAL 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	1.00	1.00	1.00	
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 5	NOTE 7	NOTE 8
126+00.00	12600.00	100	1.51	0.00	8.26	0.00	3	0	51	0	553	477	0	0	76
127+00.00	12700.00	100	4.92	0.00	4.08	0.00	12	0	23	0	565	500	0	0	65
128+00.00	12800.00	100	8.68	0.00	4.59	0.00	25	0	16	0	590	516	0	0	74
128+45.00	12845.00	45	2.10	0.00	21.37	0.00	9	0	22	0	599	538	0	0	61
129+00.00	12900.00	55	1.55	0.00	16.37	0.00	4	0	38	0	603	576	0	0	27
130+00.00	13000.00	100	0.00	0.00	21.62	0.00	3	0	70	0	606	646	0	0	-40
131+00.00	13100.00	100	0.00	0.00	8.63	0.00	0	0	56	0	606	702	0	0	-96
132+00.00	13200.00	100	0.00	0.00	5.71	0.00	0	0	27	0	606	729	0	0	-123
133+00.00	13300.00	100	0.00	0.00	6.28	0.00	0	0	22	0	606	751	0	0	-145
134+00.00	13400.00	100	0.00	0.00	4.91	0.00	0	0	21	0	606	772	0	0	-166
134+78.98	13478.98	78.98	12.67	0.00	0.71	0.00	19	0	8	0	625	780	0	0	-155
135+00.00	13500.00	21.02	2.59	0.00	0.96	0.00	6	0	1	0	631	781	0	0	-150
135+49.98	13549.98	49.98	5.28	0.00	8.14	0.00	7	0	8	0	638	789	0	0	-151
136+00.00	13600.00	50.02	0.00	0.00	15.80	0.00	5	0	22	0	643	811	0	0	-168
137+00.00	13700.00	100	0.00	0.00	21.57	0.00	0	0	69	0	643	880	0	0	-237
138+00.00	13800.00	100	0.00	0.00	14.21	0.00	0	0	66	0	643	946	0	0	-303
139+00.00	13900.00	100	0.00	0.00	1.65	0.00	0	0	29	0	643	975	0	0	-332
140+00.00	14000.00	100	0.00	0.00	3.84	0.00	0	0	10	0	643	985	0	0	-342
140+66.45	14066.45	66.45	9.83	0.00	2.67	0.00	12	0	8	0	655	993	0	0	-338
141+00.00	14100.00	33.55	0.00	0.00	5.21	0.00	6	0	5	0	661	998	0	0	-337
142+00.00	14200.00	100	0.00	0.00	22.34	0.00	0	0	51	0	661	1049	0	0	-388
143+00.00	14300.00	100	1.33	0.00	14.12	0.00	2	0	68	0	663	1117	0	0	-454
144+00.00	14400.00	100	13.64	0.00	4.36	0.00	28	0	34	0	691	1151	0	0	-460
144+43.16	14443.16	43.16	15.96	0.00	2.54	0.00	24	0	6	0	715	1157	0	0	-442
145+00.00	14500.00	56.84	11.62	0.00	6.38	0.00	29	0	9	0	744	1166	0	0	-422
146+00.00	14600.00	100	4.31	0.00	13.64	0.00	29	0	37	0	773	1203	0	0	-430
146+56.74	14656.74	56.74	6.17	0.00	5.19	0.00	11	0	20	0	784	1223	0	0	-439
147+00.00	14700.00	43.26	0.00	0.00	7.65	0.00	5	0	10	0	789	1233	0	0	-444
148+00.00	14800.00	100	0.00	0.00	6.16	0.00	0	0	26	0	789	1259	0	0	-470
149+00.00	14900.00	100	0.00	0.00	7.41	0.00	0	0	25	0	789	1284	0	0	-495
150+00.00	15000.00	100	0.00	0.00	6.87	0.00	0	0	26	0	789	1310	0	0	-521
150+86.99	15086.99	86.99	9.83	0.00	4.30	0.00	16	0	18	0	805	1328	0	0	-523
151+00.00	15100.00	13.01	7.78	0.00	4.95	0.00	4	0	2	0	809	1330	0	0	-521
152+00.00	15200.00	100	8.82	0.00	14.71	0.00	31	0	36	0	840	1366	0	0	-526
153+00.00	15300.00	100	8.92	0.00	5.43	0.00	33	0	37	0	873	1403	0	0	-530
153+50.00	15350.00	50	12.58	0.00	1.19	0.00	20	0	6	0	893	1409	0	0	-516
154+00.00	15400.00	50	0.00	0.00	7.09	0.00	12	0	8	0	905	1417	0	0	-512
155+00.00	15500.00	100	5.04	0.00	11.34	0.00	9	0	34	0	914	1451	0	0	-537
156+00.00	15600.00	100	4.73	0.00	15.47	0.00	18	0	50	0	932	1501	0	0	-569
156+30.00	15630.00	30	2.20	0.00	17.99	0.00	4	0	19	0	936	1520	0	0	-584
157+00.00	15700.00	70	0.00	0.00	13.80	0.00	3	0	41	0	939	1561	0	0	-622
158+00.00	15800.00	100	0.00	0.00	20.99	0.00	0	0	64	0	939	1625	0	0	-686
159+00.00	15900.00	100	0.73	0.00	13.87	0.00	1	0	65	0	940	1690	0	0	-750
159+27.93	15927.93	27.93	9.11	0.00	6.70	0.00	5	0	11	0	945	1701	0	0	-756
160+00.00	16000.00	72.07	0.00	0.00	3.03	0.00	12	0	13	0	957	1714	0	0	-757

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP 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	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

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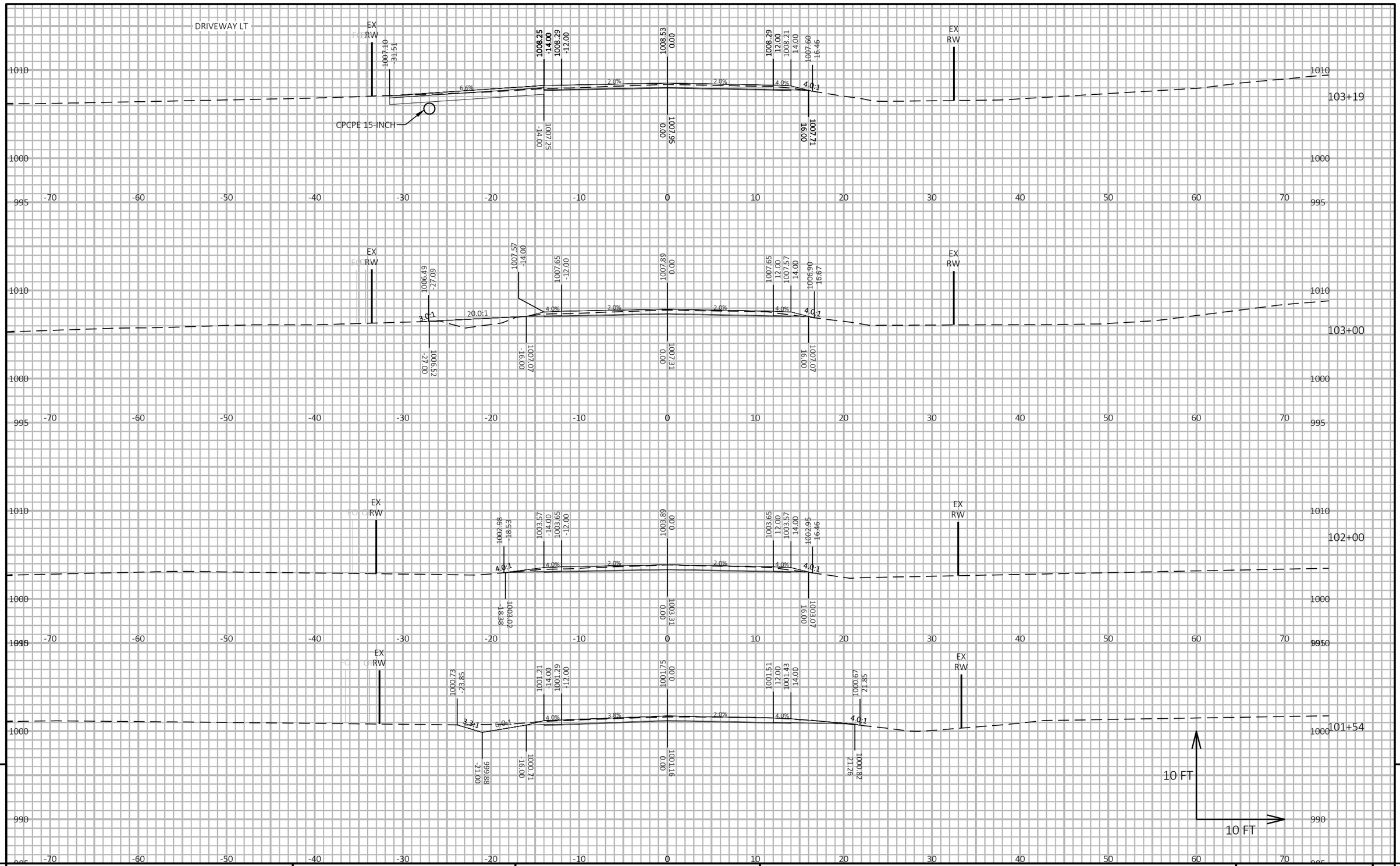
DIVISION - ZENDA RD

STATION	REAL 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	1.00	1.00	1.00	
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 5	NOTE 7	NOTE 8
161+00.00	16100.00	100	0.38	0.00	0.13	0.00	1	0	6	0	958	1720	0	0	-762
162+00.00	16200.00	100	0.00	0.00	4.25	0.00	1	0	8	0	959	1728	0	0	-769
163+00.00	16300.00	100	0.00	0.00	10.40	0.00	0	0	27	0	959	1755	0	0	-796
164+00.00	16400.00	100	0.00	0.00	11.27	0.00	0	0	40	0	959	1795	0	0	-836
165+00.00	16500.00	100	0.00	0.00	12.33	0.00	0	0	44	0	959	1839	0	0	-880
166+00.00	16600.00	100	0.00	0.00	8.12	0.00	0	0	38	0	959	1877	0	0	-918
167+00.00	16700.00	100	0.00	0.00	4.12	0.00	0	0	23	0	959	1900	0	0	-941
168+00.00	16800.00	100	8.94	0.00	1.32	0.00	17	0	10	0	976	1910	0	0	-934
168+07.36	16807.36	7.36	8.40	0.00	2.14	0.00	2	0	0	0	978	1910	0	0	-932
169+00.00	16900.00	92.64	0.43	0.00	12.66	0.00	15	0	25	0	993	1935	0	0	-942
170+00.00	17000.00	100	3.41	0.00	7.04	0.00	7	0	36	0	1000	1971	0	0	-971
171+00.00	17100.00	100	3.67	0.00	16.76	0.00	13	0	44	0	1013	2015	0	0	-1002
172+00.00	17200.00	100	4.78	0.00	22.98	0.00	16	0	74	0	1029	2089	0	0	-1060
173+00.00	17300.00	100	9.93	0.00	16.02	0.00	27	0	72	0	1056	2161	0	0	-1105
173+00.00	17300.00	0	0.00	0.00	0.00	0.00	0	0	0	0	1056	2161	0	0	-1105
173+15.00	17315.00	15	10.66	0.00	24.23	0.00	3	0	7	0	1059	2168	0	0	-1109
174+00.00	17400.00	85	12.70	0.00	7.06	0.00	37	0	49	0	1096	2217	0	0	-1121
175+00.01	17500.01	100.01	23.97	0.00	0.00	0.00	68	0	13	0	1164	2230	0	0	-1066
175+15.10	17515.10	15.09	20.40	0.00	0.00	0.00	12	0	0	0	1176	2230	0	0	-1054
176+00.00	17600.00	84.9	3.50	0.00	0.00	0.00	38	0	0	0	1214	2230	0	0	-1016
176+58.78	17658.78	58.78	23.18	0.00	0.00	0.00	29	0	0	0	1243	2230	0	0	-987
177+00.00	17700.00	41.22	2.77	0.00	0.97	0.00	20	0	1	0	1263	2231	0	0	-968
178+00.00	17800.00	100	4.94	0.00	5.41	0.00	14	0	12	0	1277	2243	0	0	-966
179+00.00	17900.00	100	4.17	0.00	2.98	0.00	17	0	16	0	1294	2259	0	0	-965
179+25.00	17925.00	25	18.28	0.00	1.40	0.00	10	0	2	0	1304	2261	0	0	-957
179+50.00	17950.00	25	1.52	0.00	0.03	0.00	9	0	1	0	1313	2262	0	0	-949
179+55.00	17955.00	5	12.49	0.00	0.00	0.00	1	0	0	0	1314	2262	0	0	-948
179+60.00	17960.00	5	12.51	0.00	2.90	0.00	2	0	0	0	1316	2262	0	0	-946
179+65.00	17965.00	5	10.29	0.00	7.53	0.00	2	0	1	0	1318	2263	0	0	-945
179+70.00	17970.00	5	8.47	0.00	6.85	0.00	2	0	1	0	1320	2264	0	0	-944
179+75.00	17975.00	5	6.61	0.00	0.00	0.00	1	0	1	0	1321	2265	0	0	-944
179+80.00	17980.00	5	0.53	0.00	0.00	0.00	1	0	0	0	1322	2265	0	0	-943
179+85.00	17985.00	5	0.60	0.00	0.00	0.00	0	0	0	0	1322	2265	0	0	-943
179+90.00	17990.00	5	0.35	0.00	0.00	0.00	0	0	0	0	1322	2265	0	0	-943
179+95.00	17995.00	5	4.82	0.00	0.50	0.00	0	0	0	0	1322	2265	0	0	-943
180+00.00	18000.00	5	3.63	0.00	1.81	0.00	1	0	0	0	1323	2265	0	0	-942
180+05.00	18005.00	5	0.86	0.00	7.24	0.00	0	0	1	0	1323	2266	0	0	-943
180+10.00	18010.00	5	4.31	0.00	4.60	0.00	0	0	1	0	1323	2267	0	0	-944
180+15.00	18015.00	5	6.27	0.00	0.92	0.00	1	0	1	0	1324	2268	0	0	-944
180+20.00	18020.00	5	6.93	0.00	0.07	0.00	1	0	0	0	1325	2268	0	0	-943
180+25.00	18025.00	5	5.16	0.00	0.17	0.00	1	0	0	0	1326	2268	0	0	-942
180+30.00	18030.00	5	4.81	0.00	0.24	0.00	1	0	0	0	1327	2268	0	0	-941
180+35.00	18035.00	5	0.00	0.00	0.00	0.00	0	0	0	0	1327	2268	0	0	-941

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
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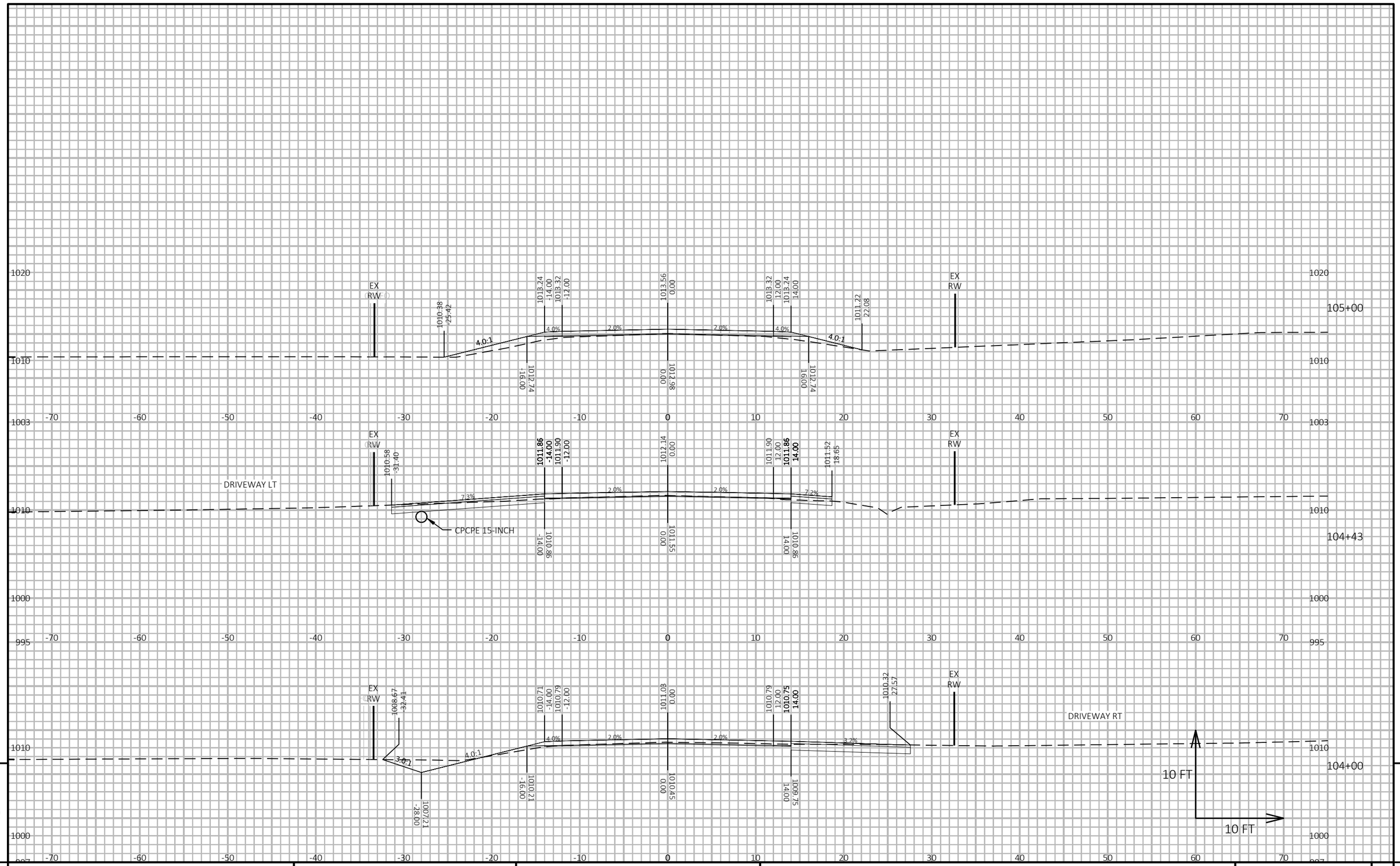


PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 110 E

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LAYOUT NAME - 01

PLOT DATE : 8/3/2026 4:27 PM PLOT BY : KIERAN CONLEY PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

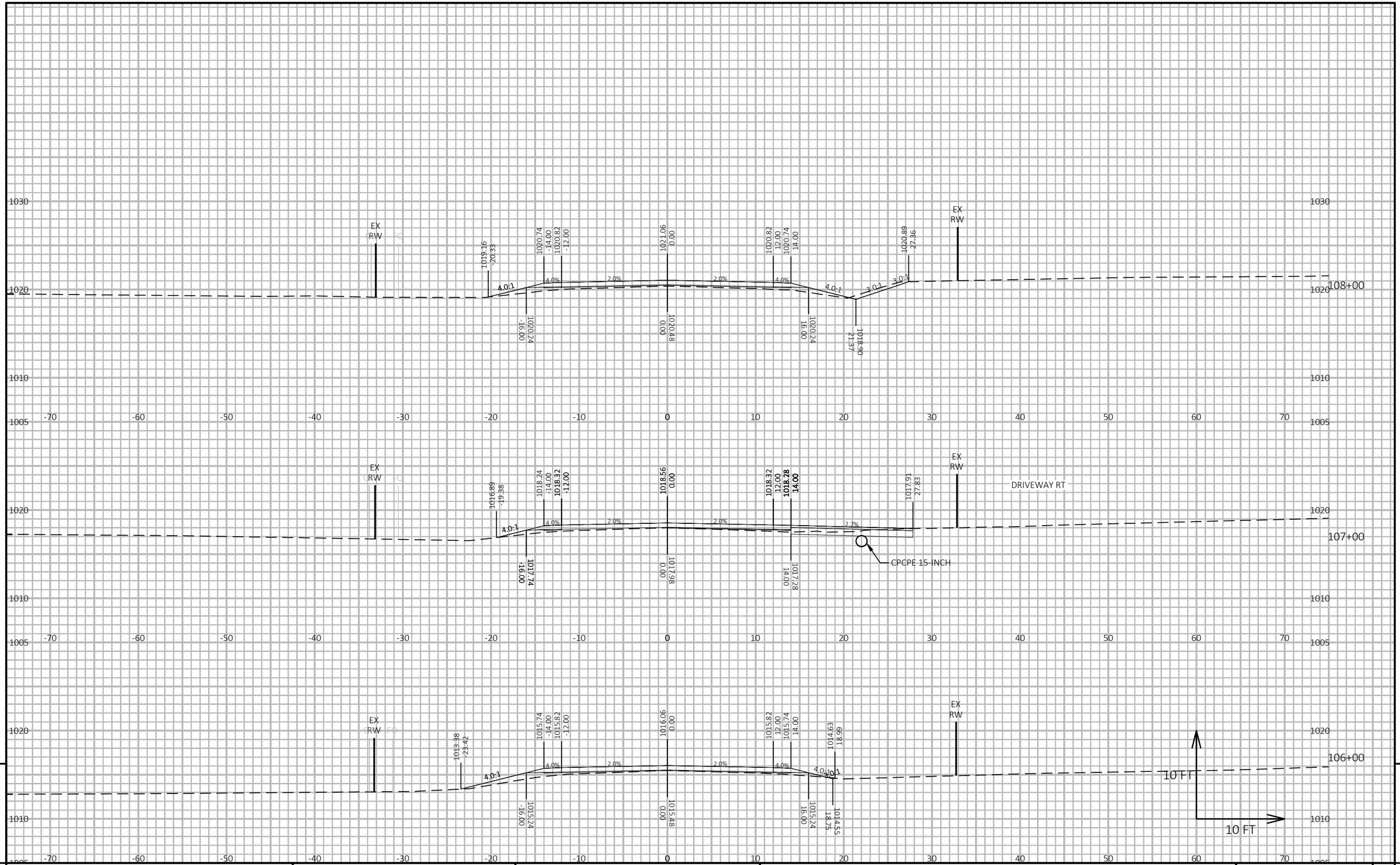
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 111	E

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LAYOUT NAME - 02

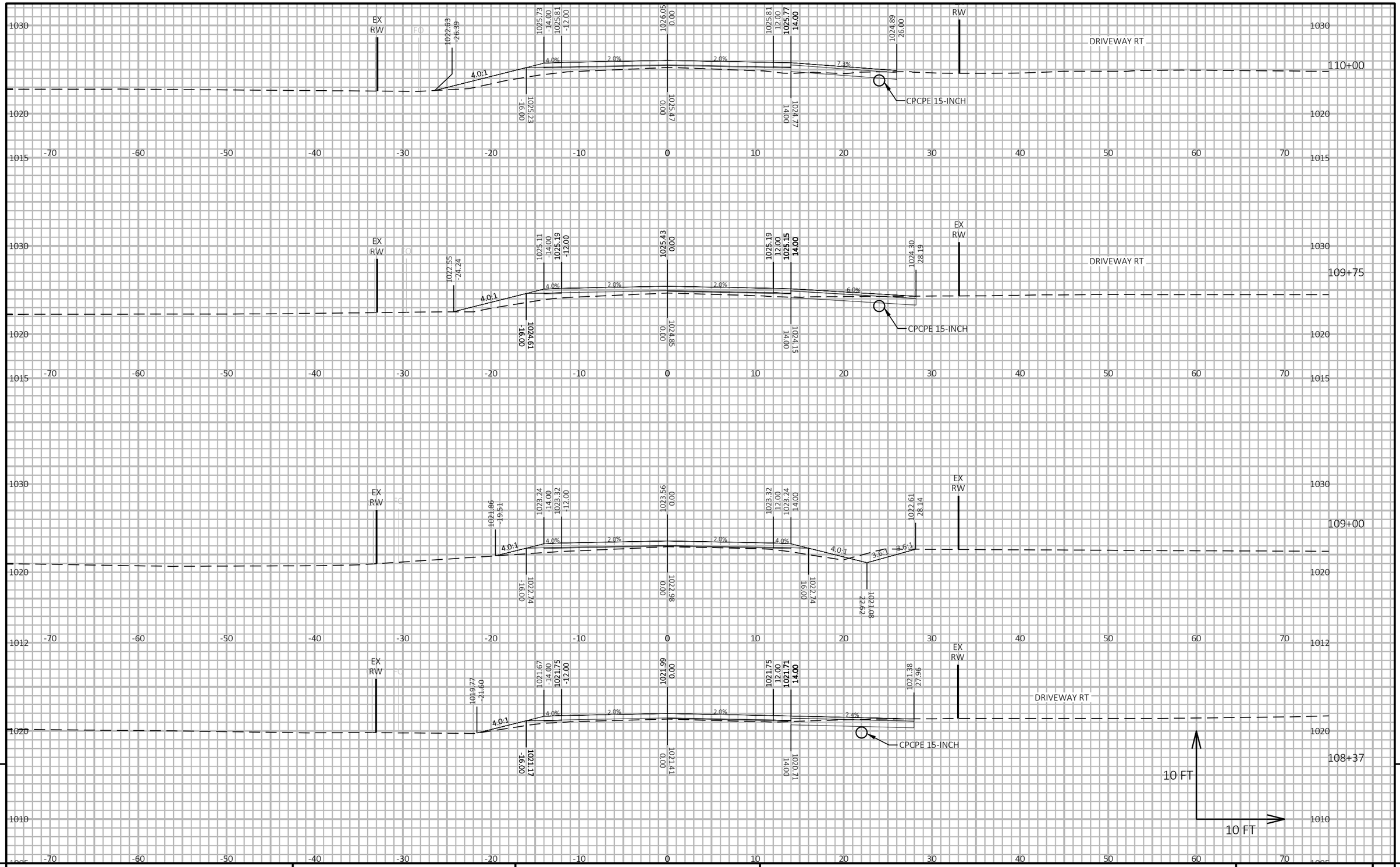
PLOT DATE : 8/3/2026 4:27 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 112 E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 03
PLOT DATE : 8/3/2026 4:27 PM
PLOT BY : KIERAN CONLEY
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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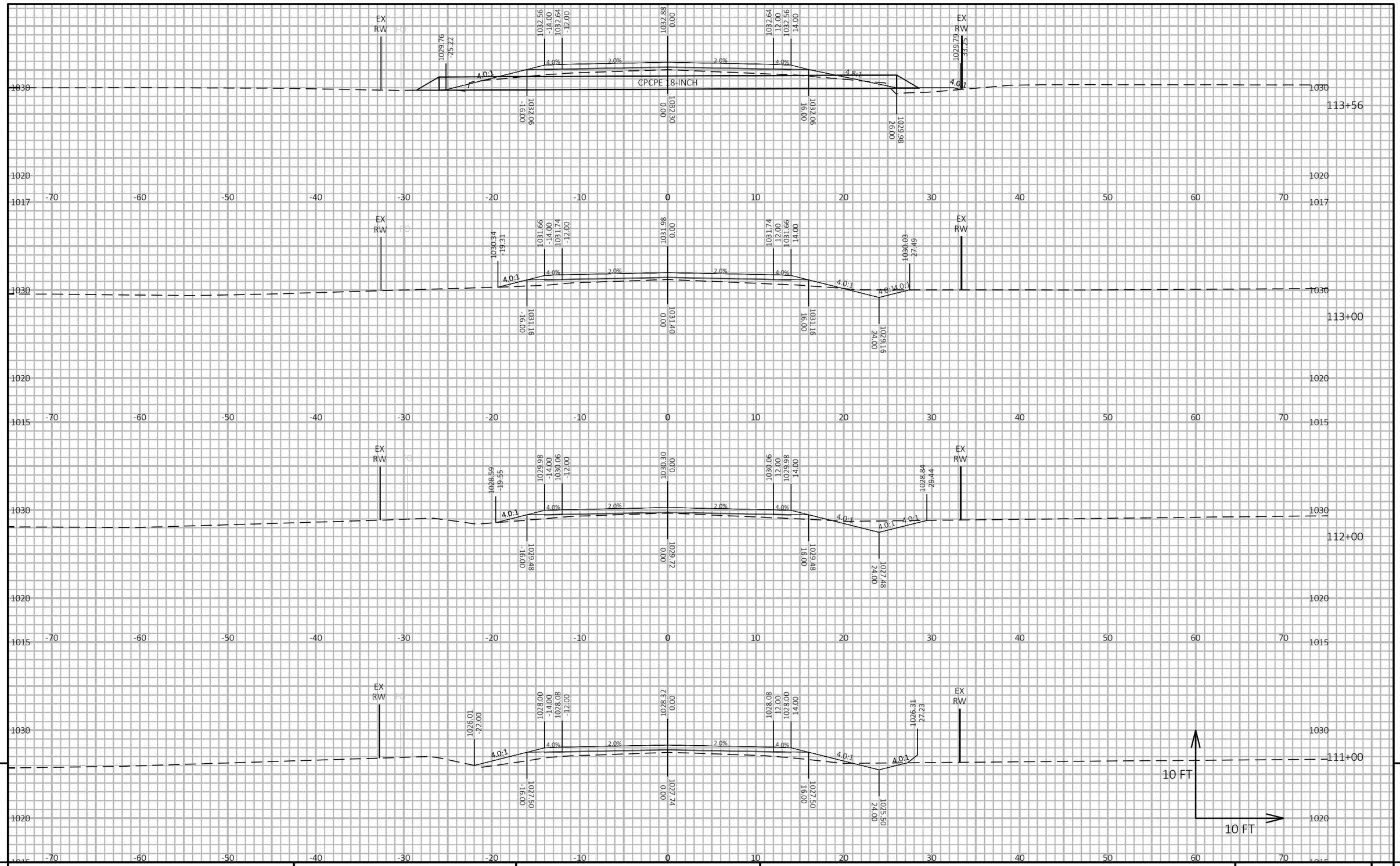
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 113	E

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LAYOUT NAME - 04

PLOT DATE : 8/3/2026 4:28 PM PLOT BY : KIERAN CONLEY PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

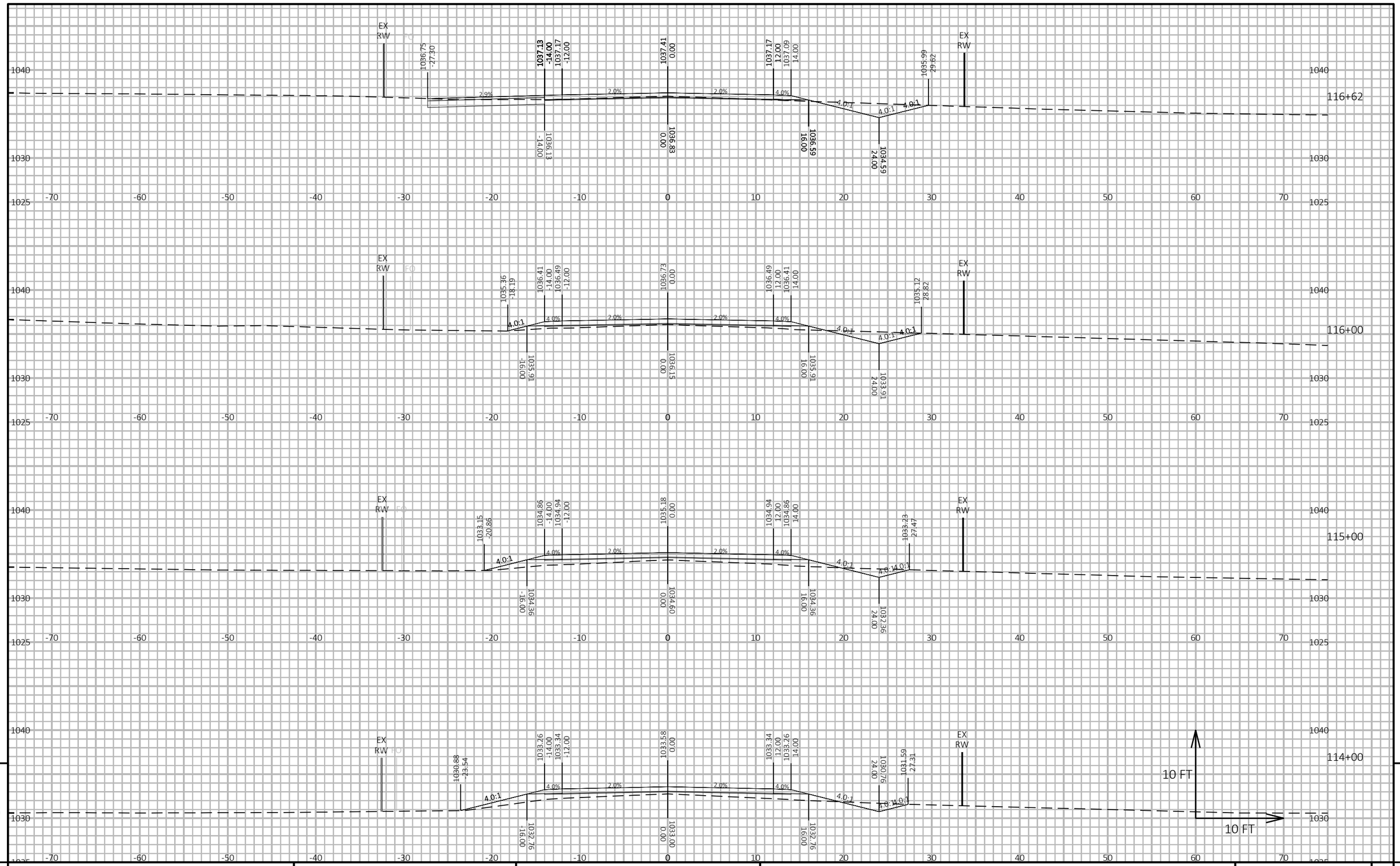


PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 114	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 05

PLOT DATE : 8/3/2026 4:28 PM PLOT BY : KIERAN CONLEY PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

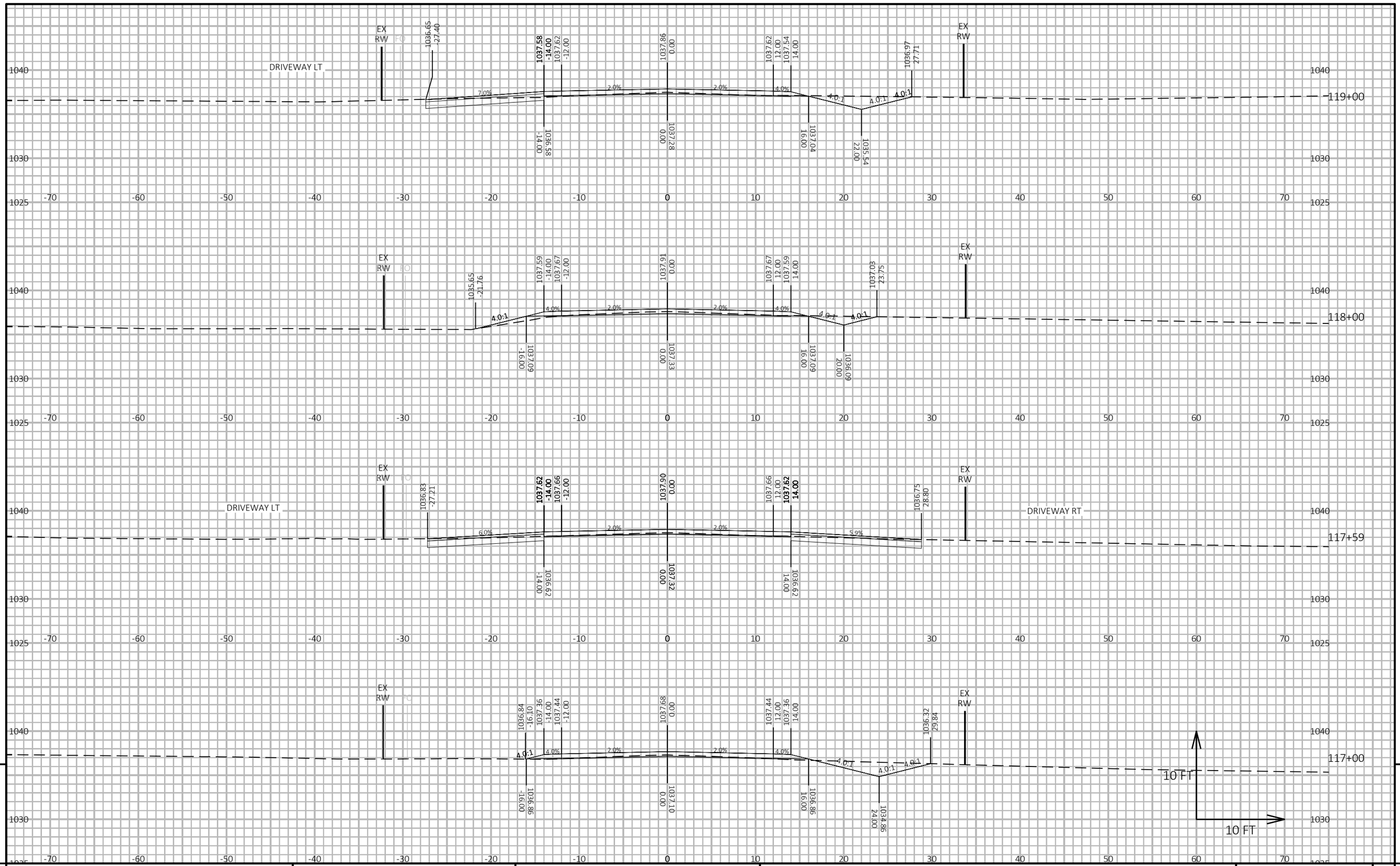


PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 115	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 06

PLOT DATE : 8/3/2026 4:28 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

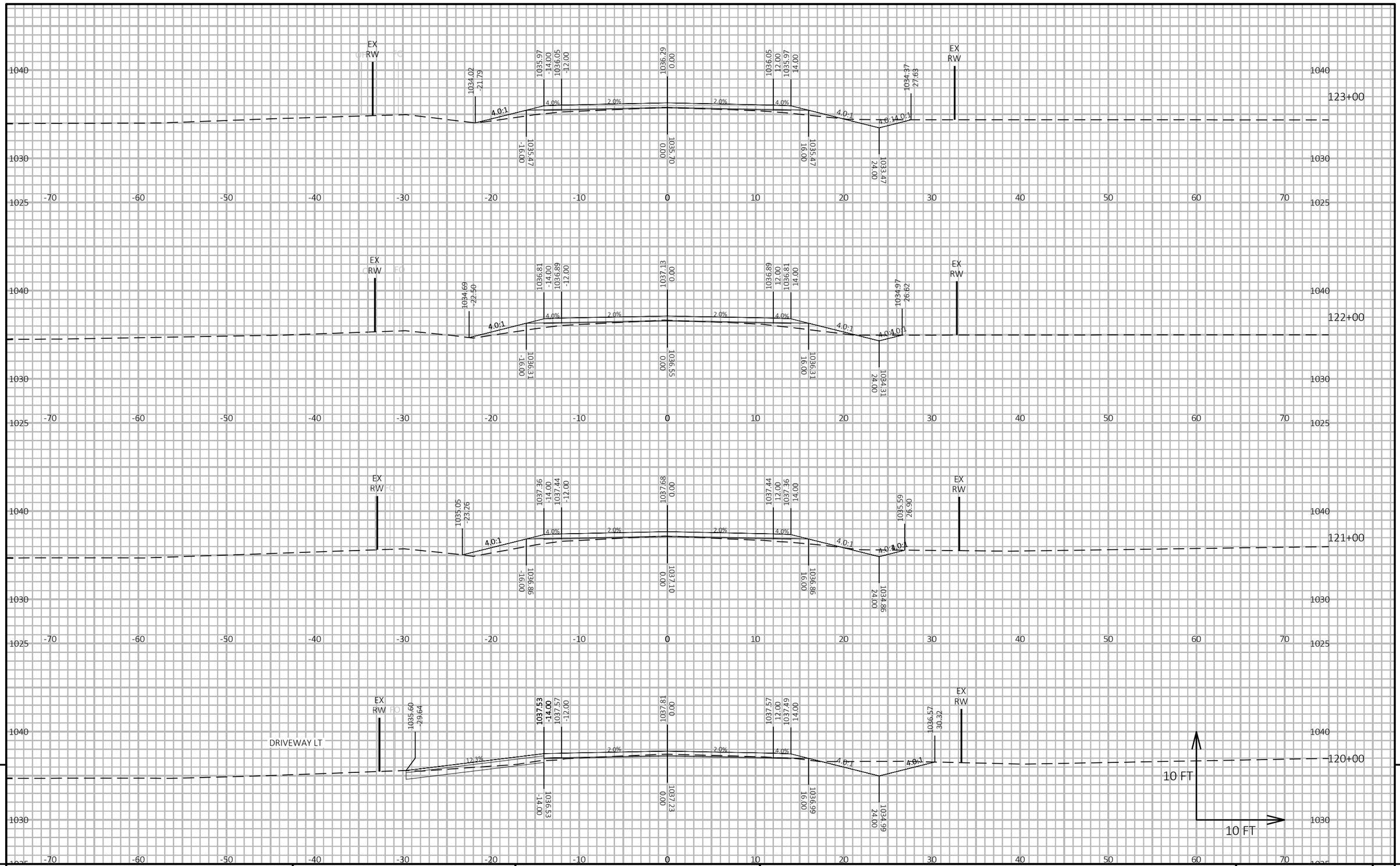
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 116	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 07

PLOT DATE : 8/3/2026 4:28 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

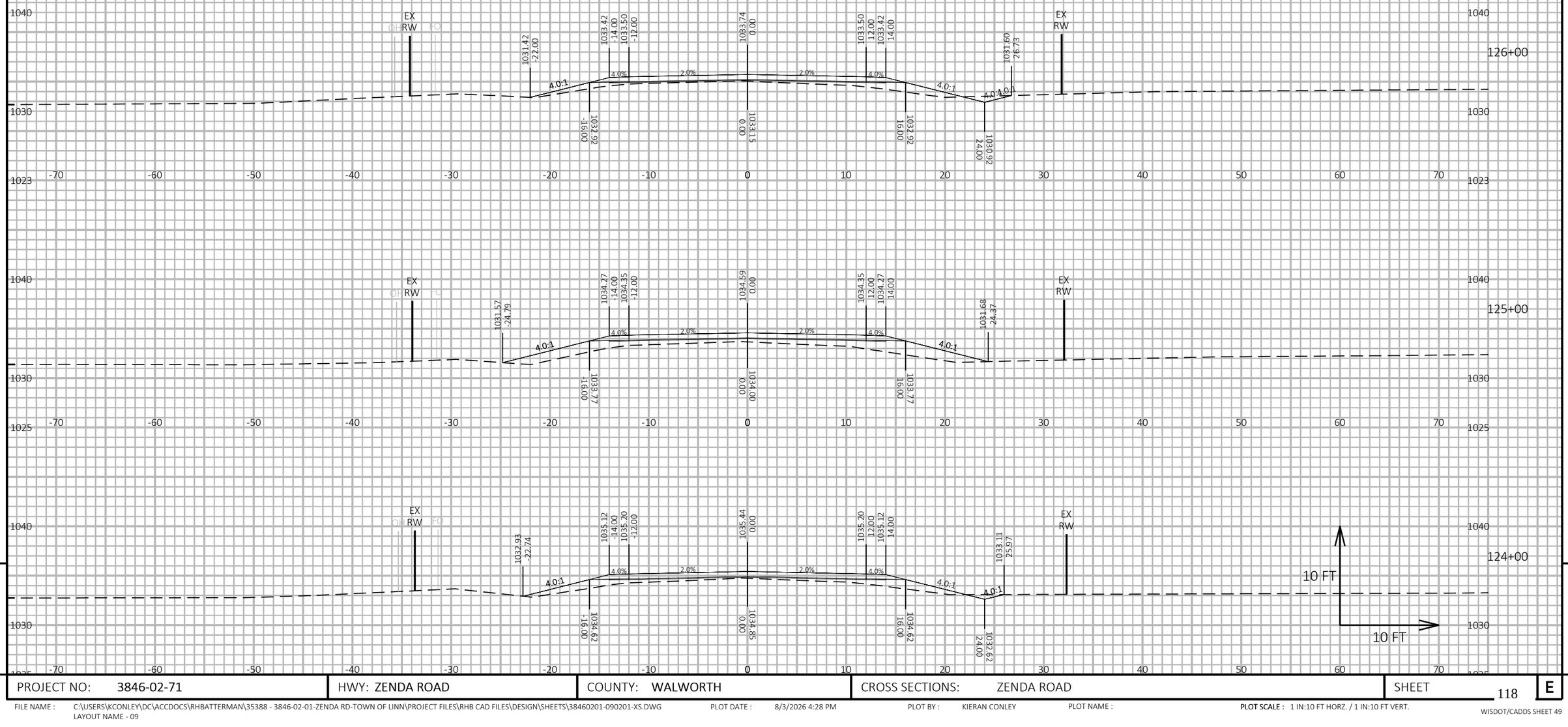
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 117	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 08

PLOT DATE : 8/3/2026 4:28 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

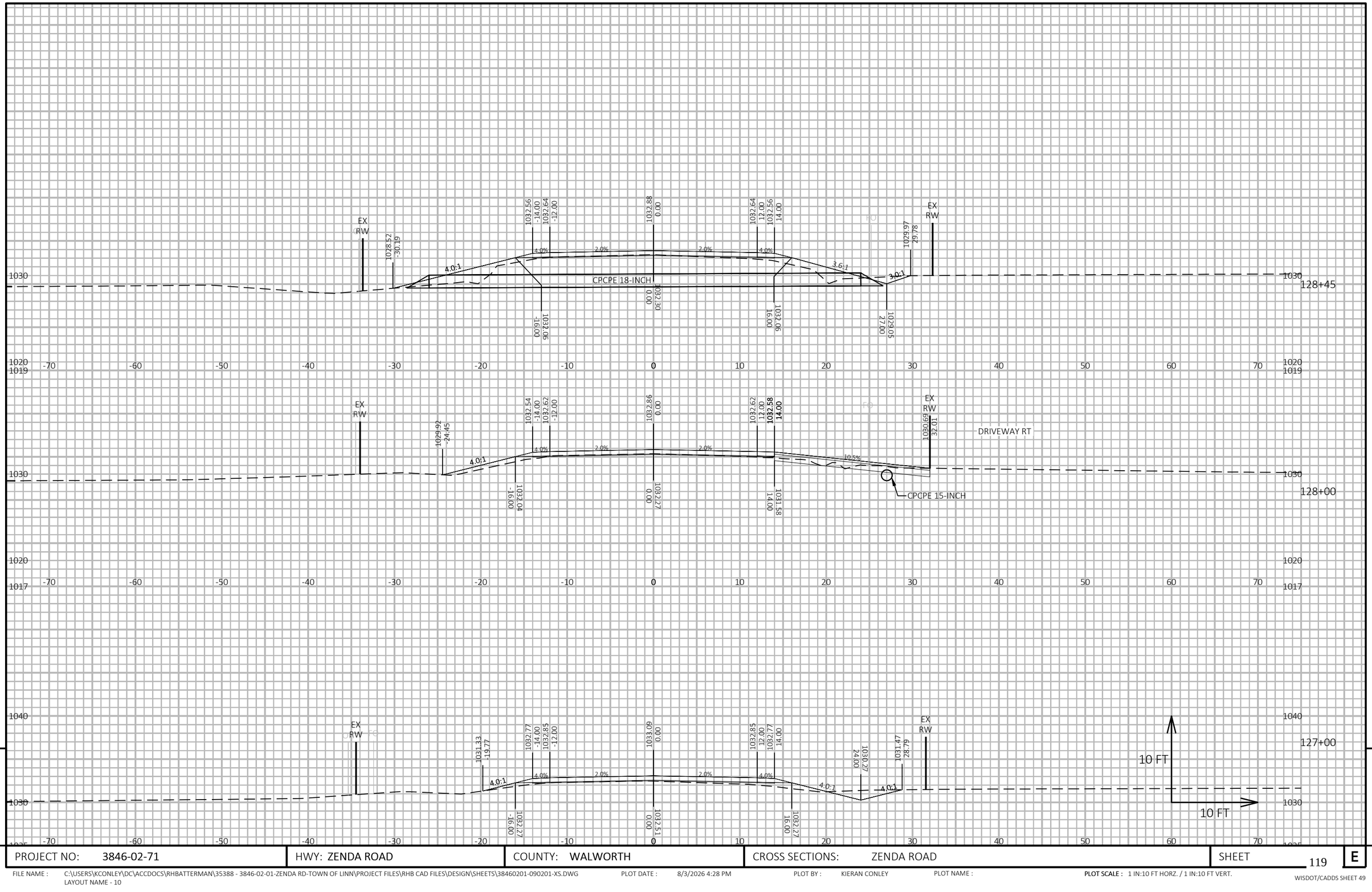
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 118	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 09

PLOT DATE : 8/3/2026 4:28 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

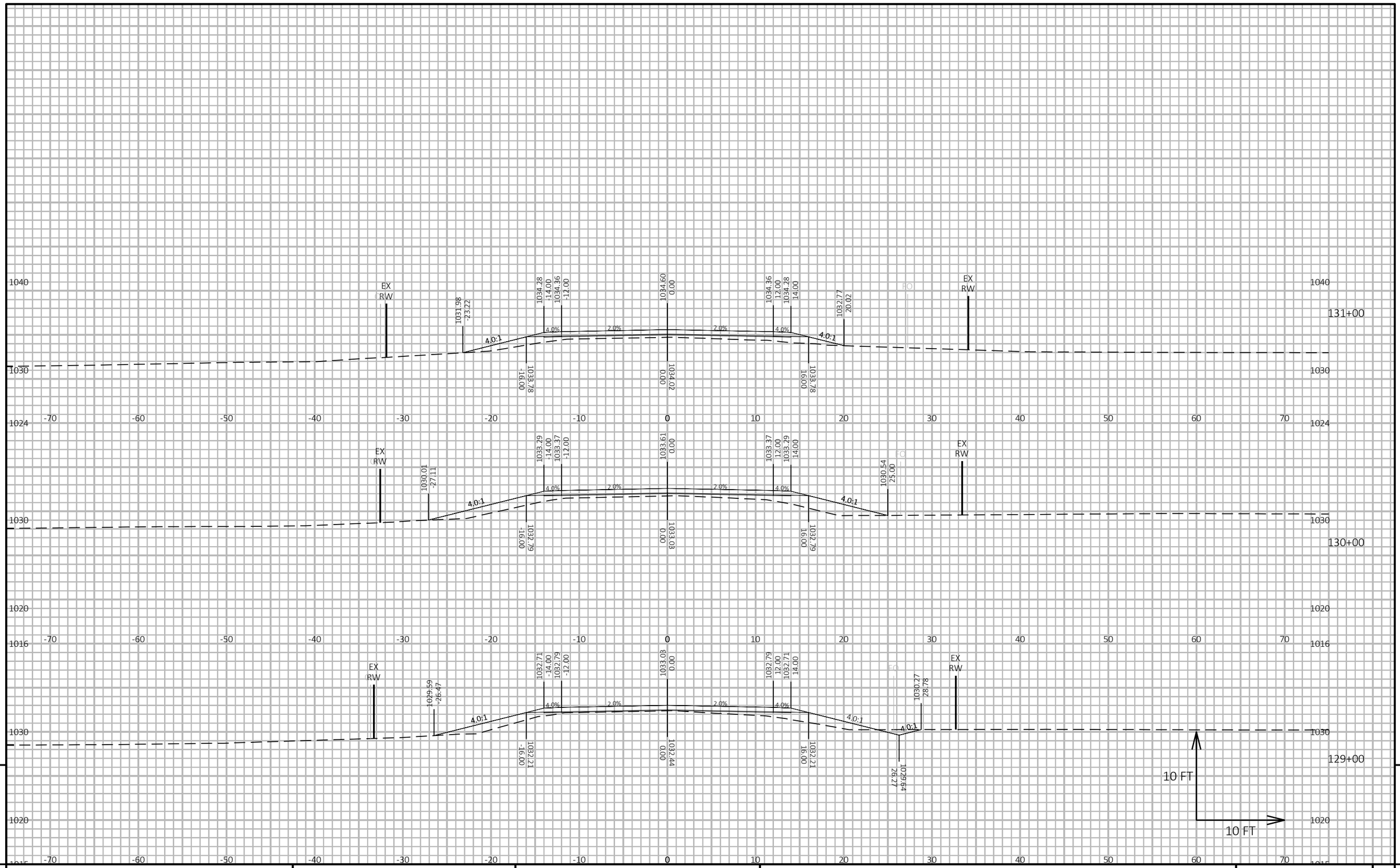
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 119	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 10

PLOT DATE : 8/3/2026 4:28 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

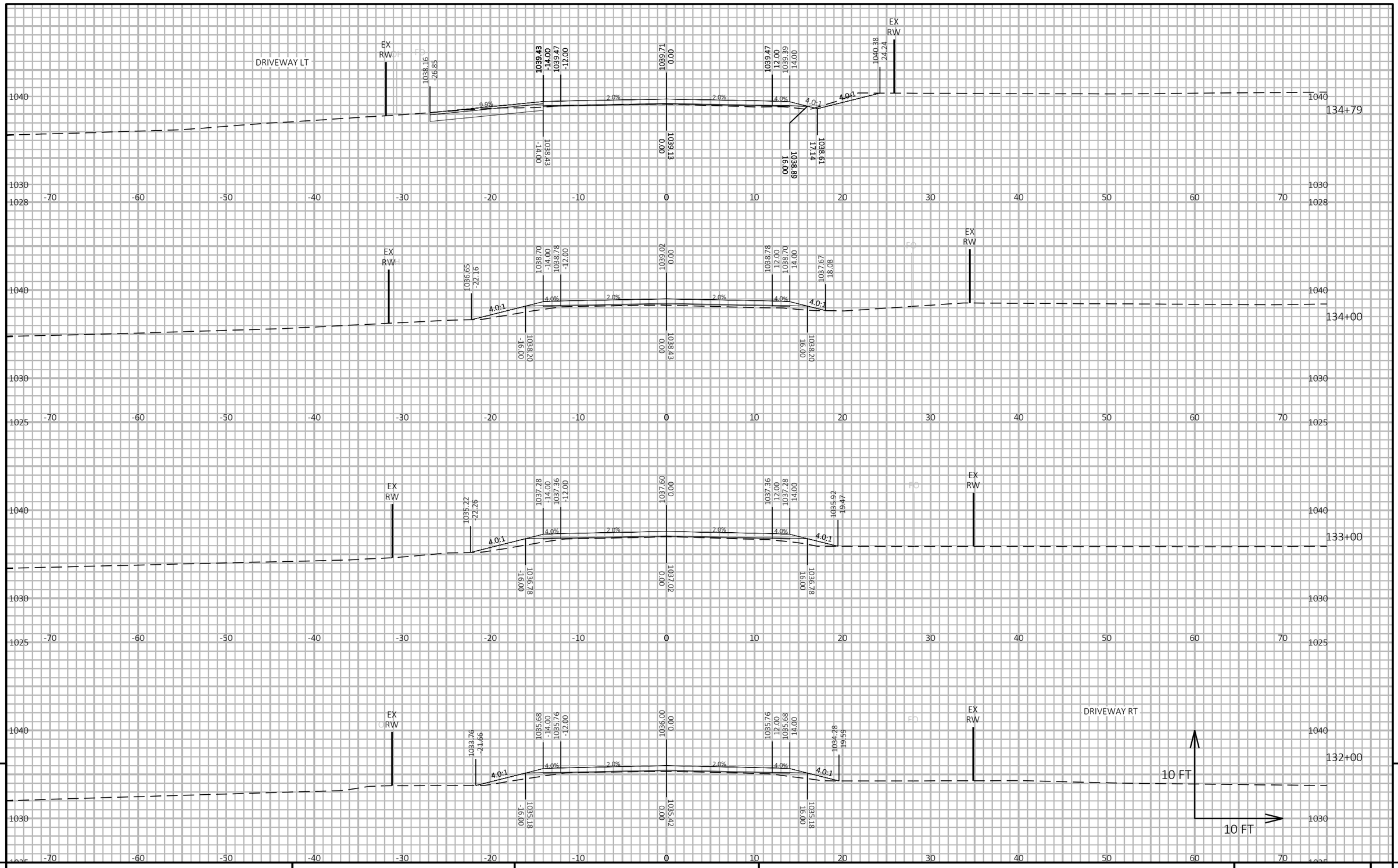


PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 120	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 11

PLOT DATE : 8/3/2026 4:28 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



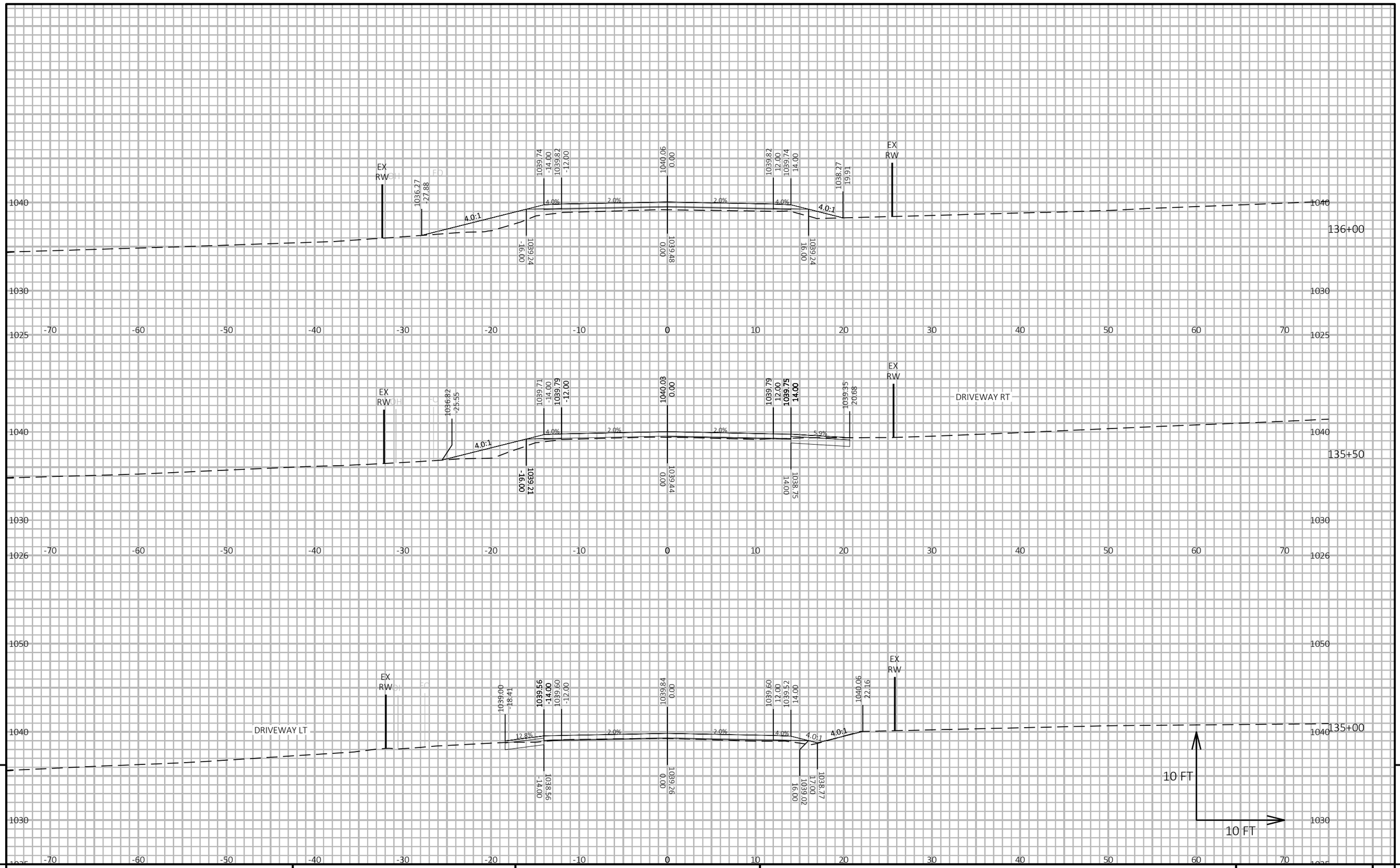
9 9

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 121	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 12

PLOT DATE : 8/3/2026 4:28 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

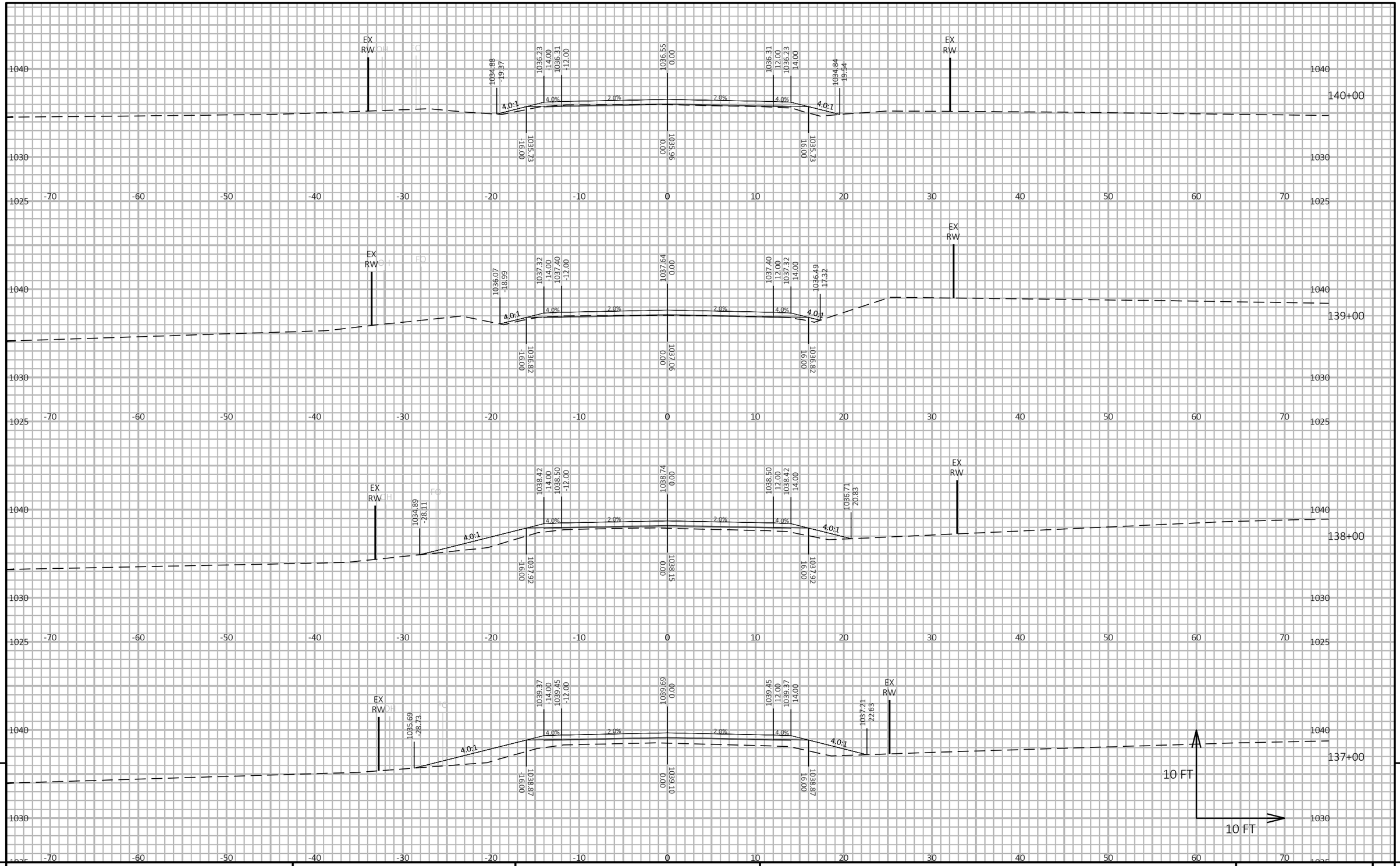
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 122	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 13

PLOT DATE : 8/3/2026 4:28 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

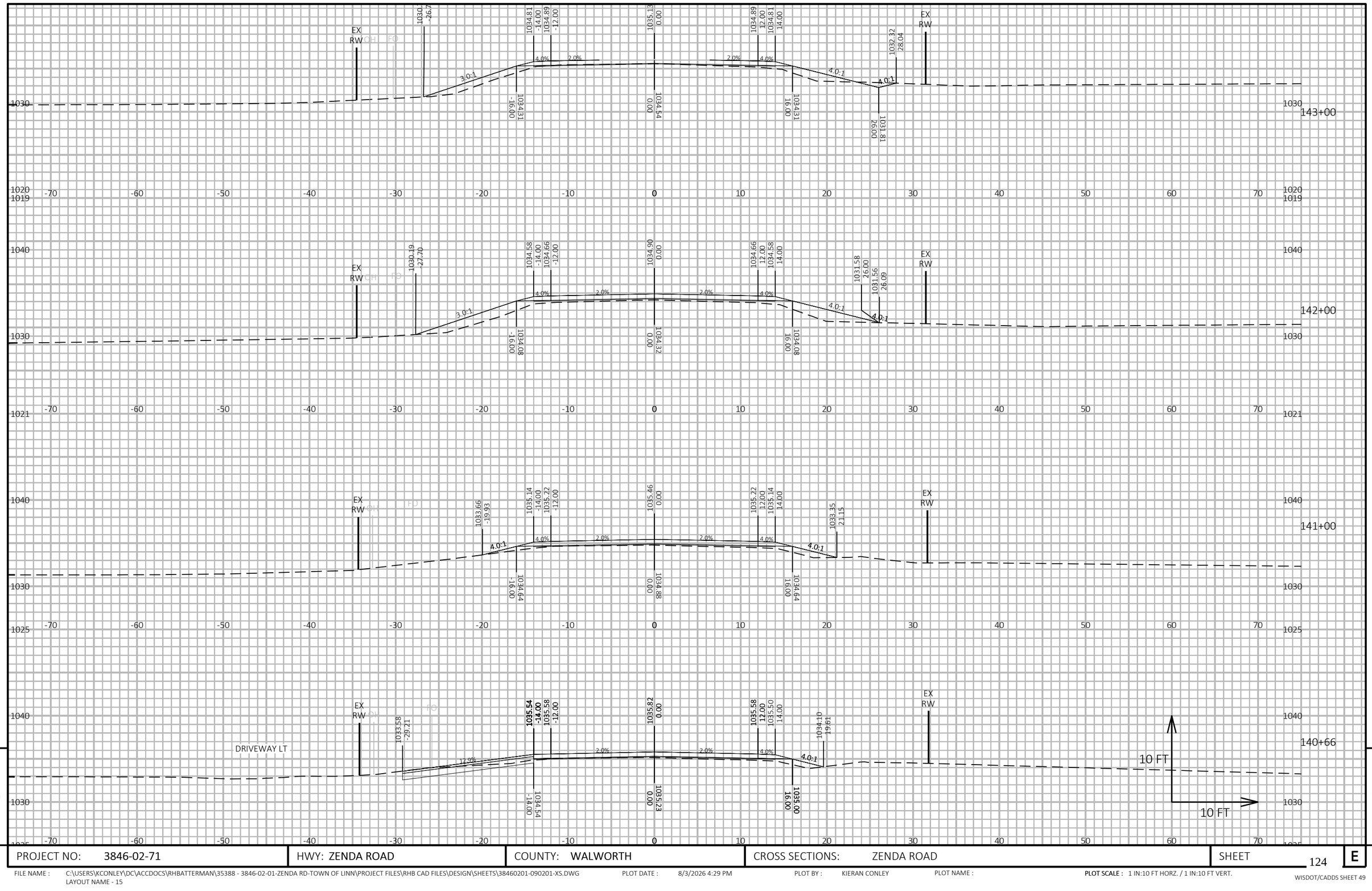
WISDOT/CADDS SHEET 49



PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 123 E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 14
PLOT DATE : 8/3/2026 4:28 PM
PLOT BY : KIERAN CONLEY
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

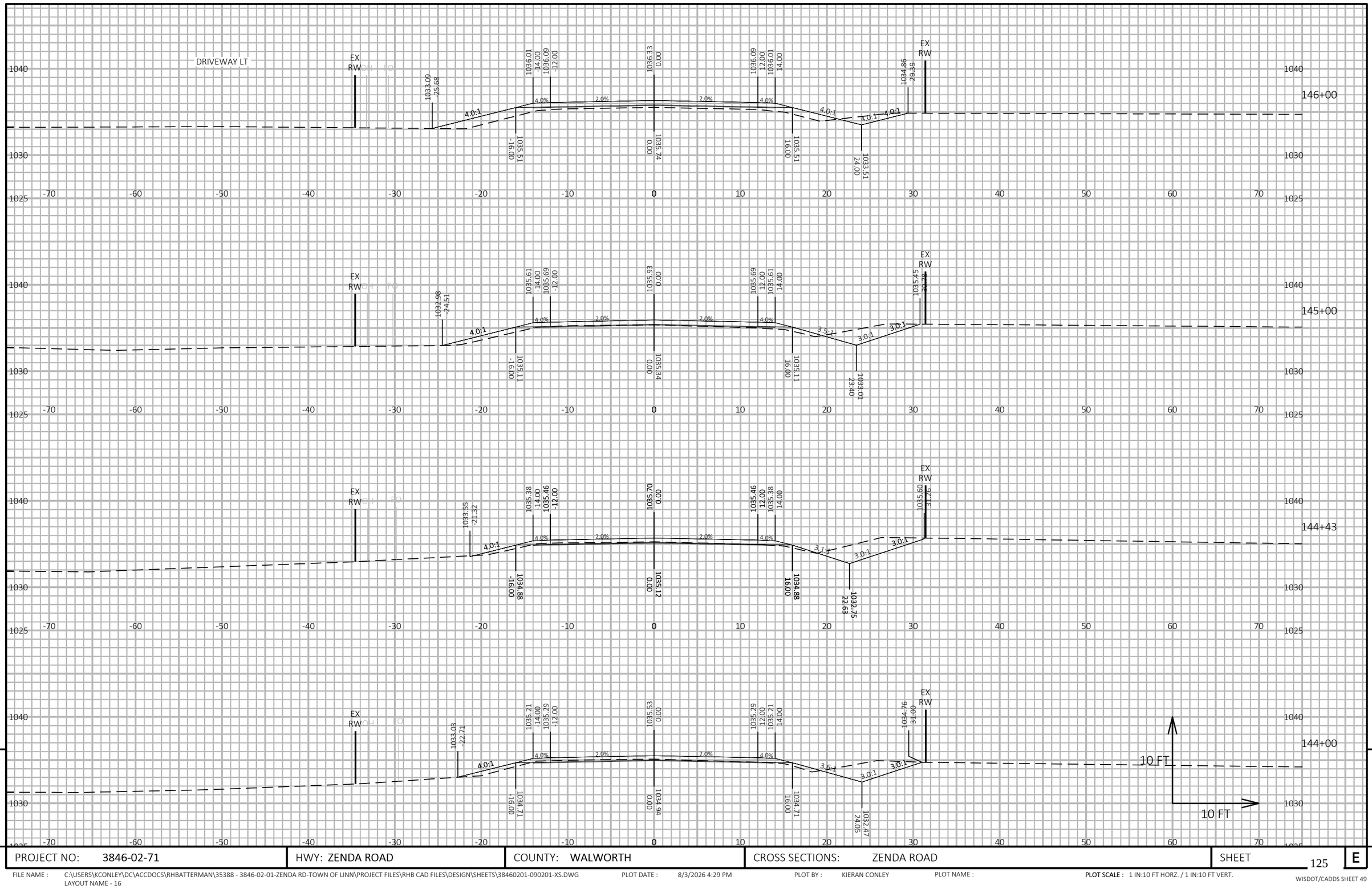
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 124	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 15

PLOT DATE : 8/3/2026 4:29 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

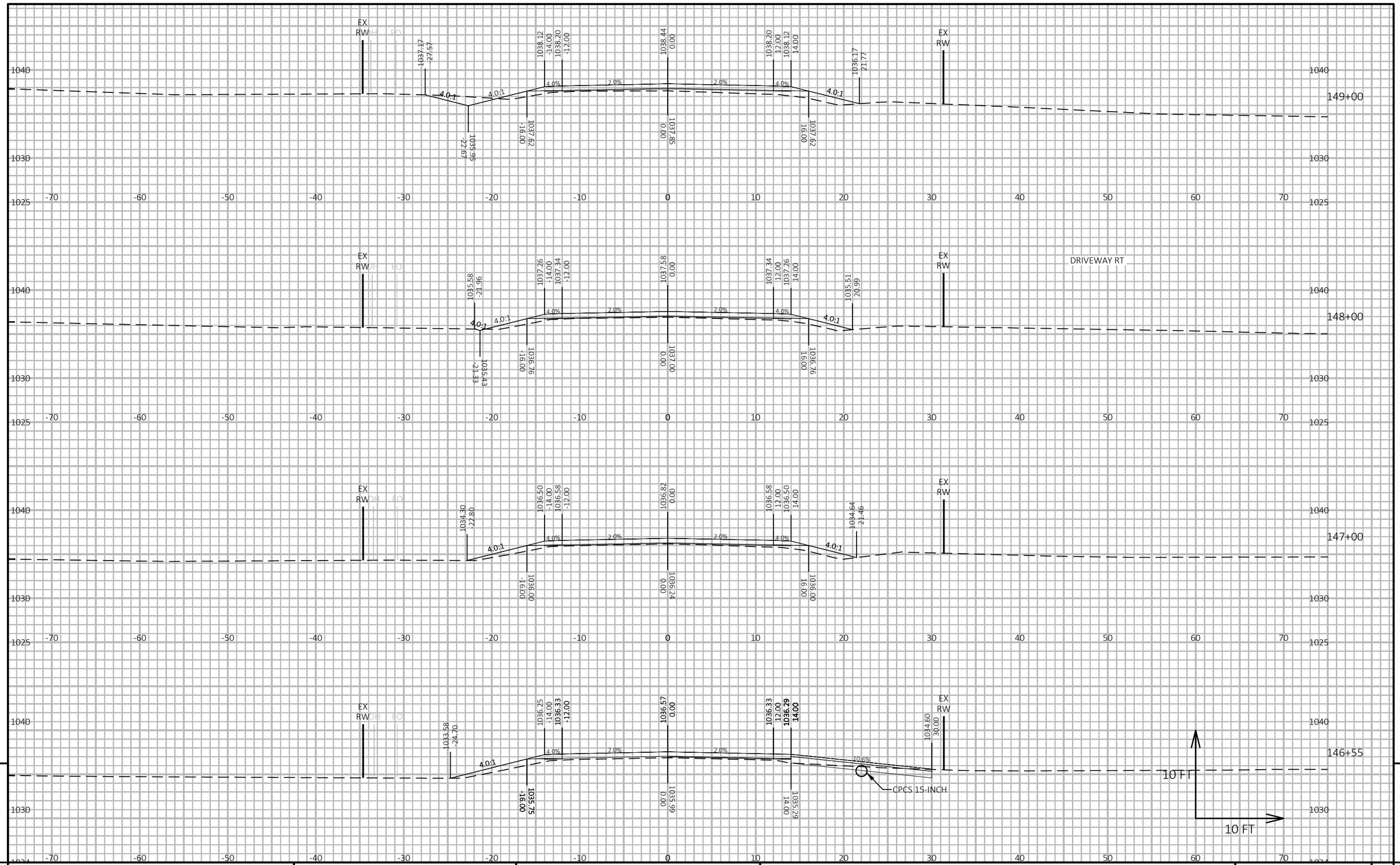
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 125	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 16

PLOT DATE : 8/3/2026 4:29 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

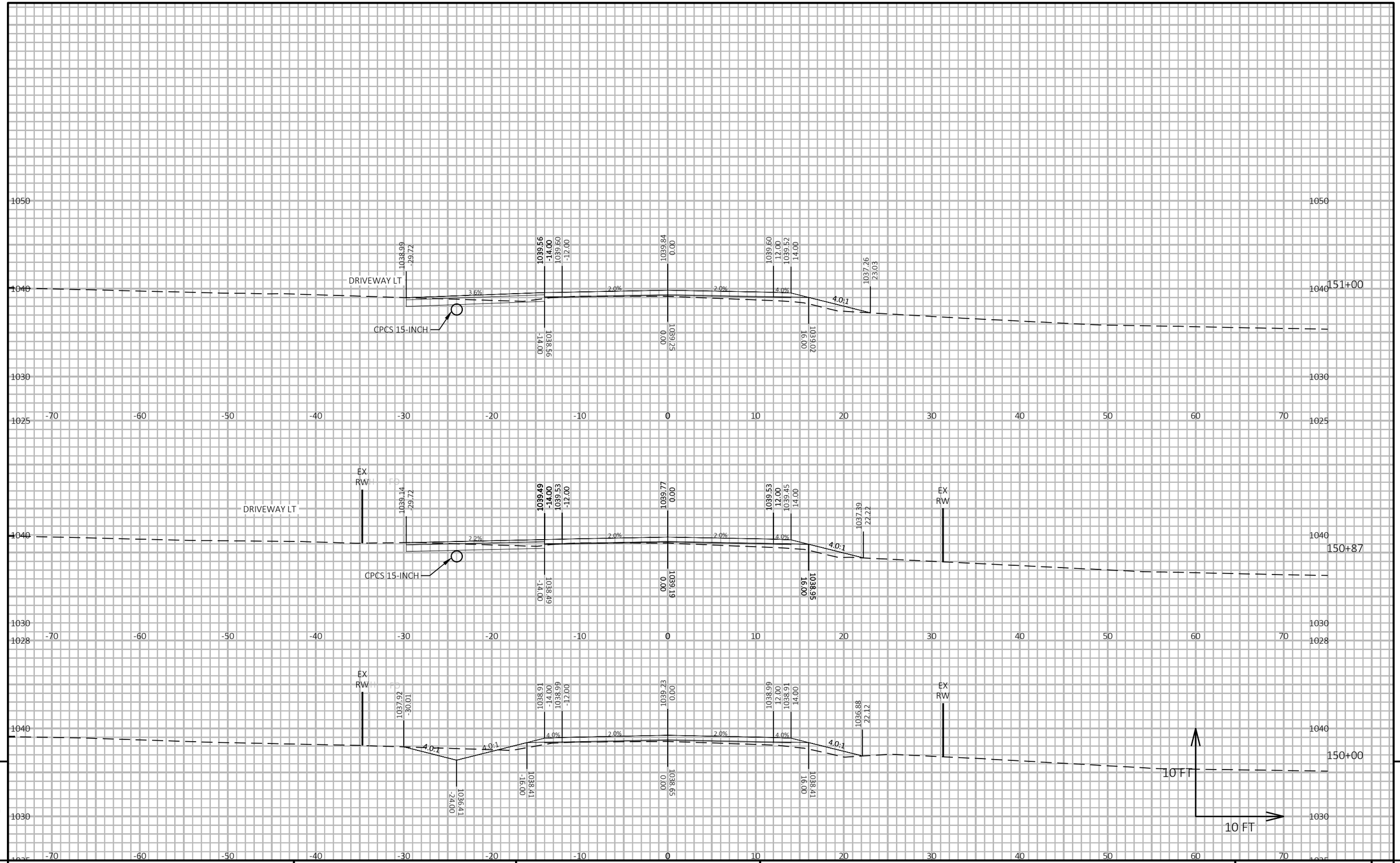


PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 126	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 17

PLOT DATE : 8/3/2026 4:29 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

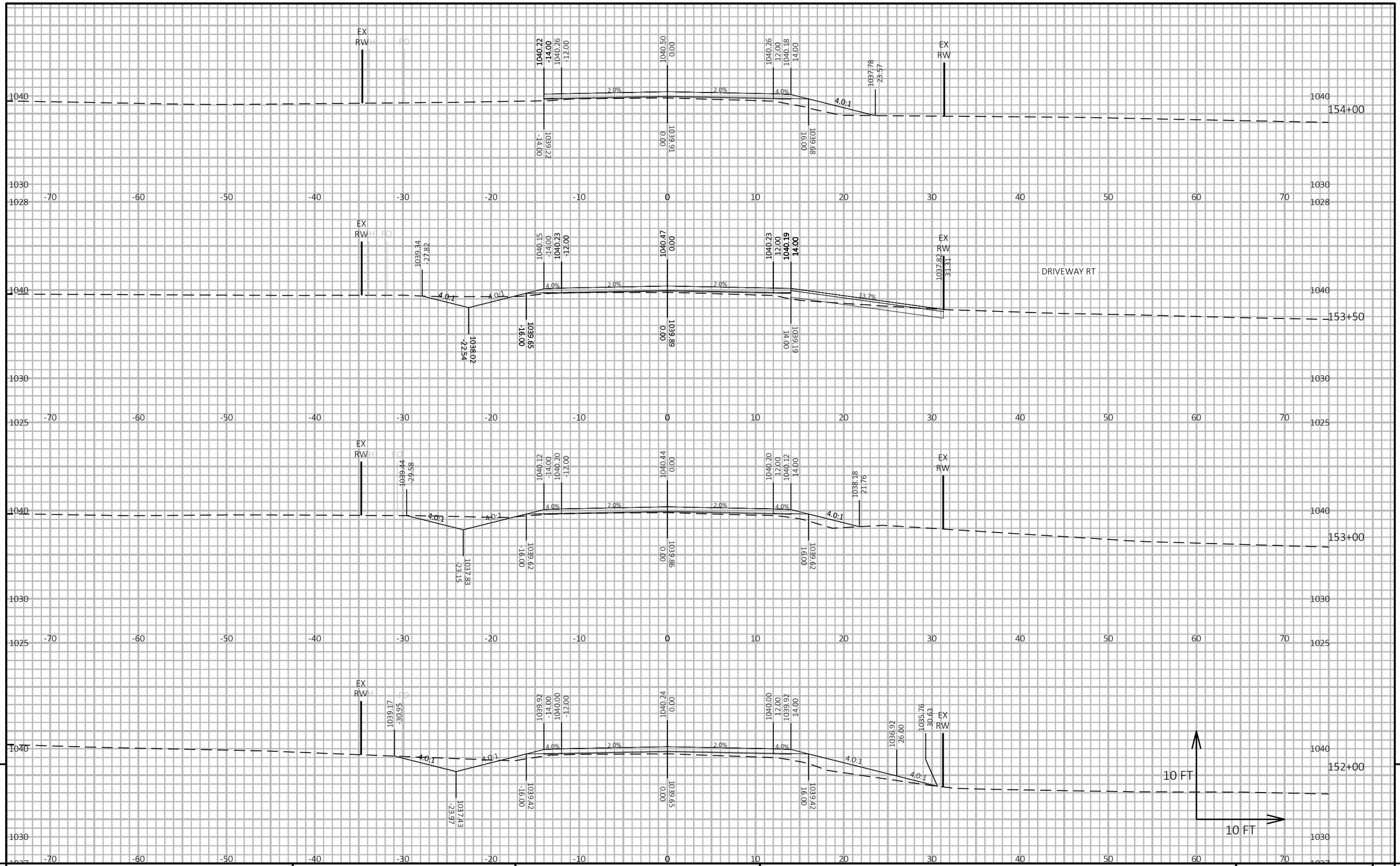
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 127	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 18

PLOT DATE : 8/3/2026 4:29 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

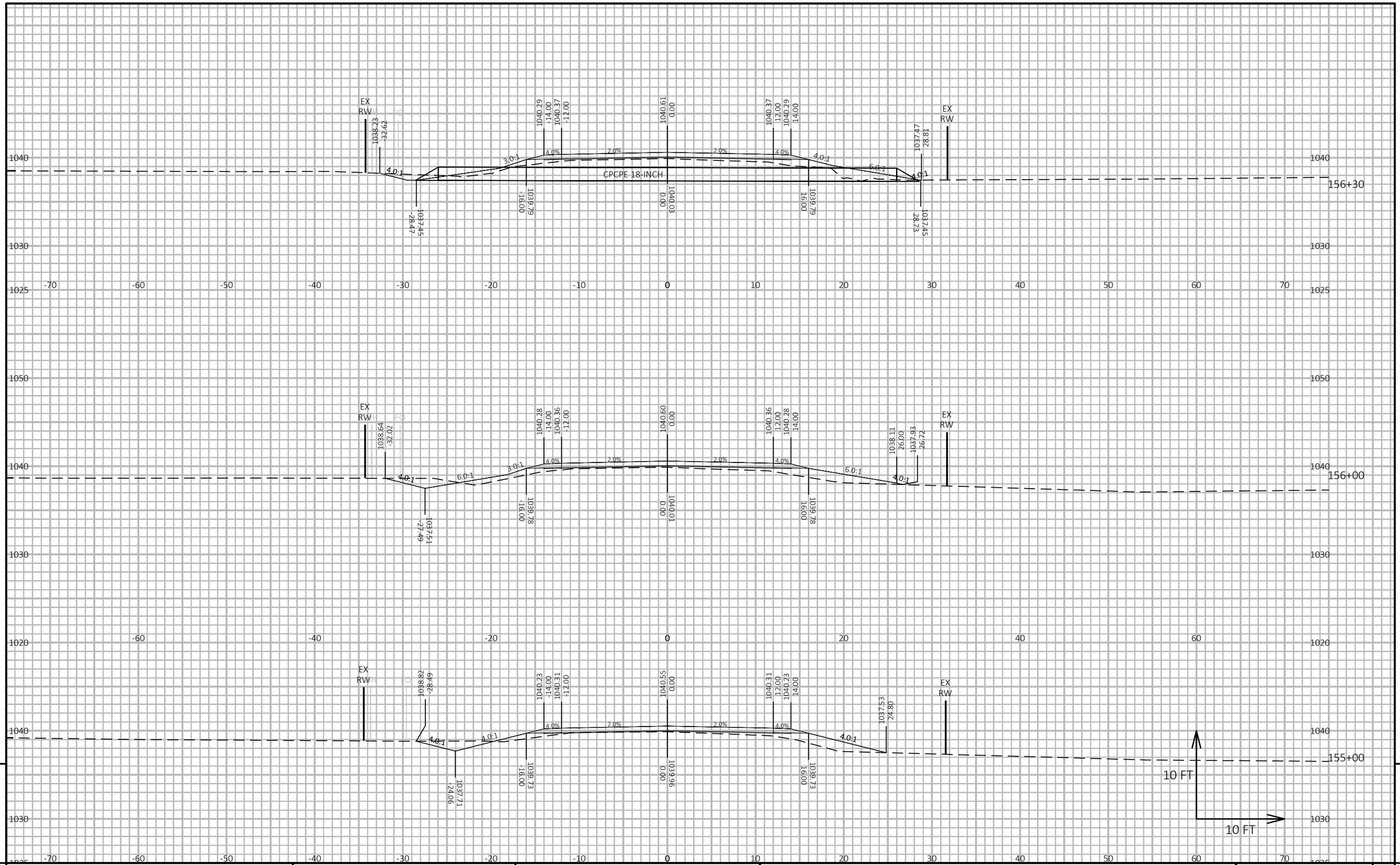
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 128	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 19

PLOT DATE : 8/3/2026 4:29 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 129	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 20

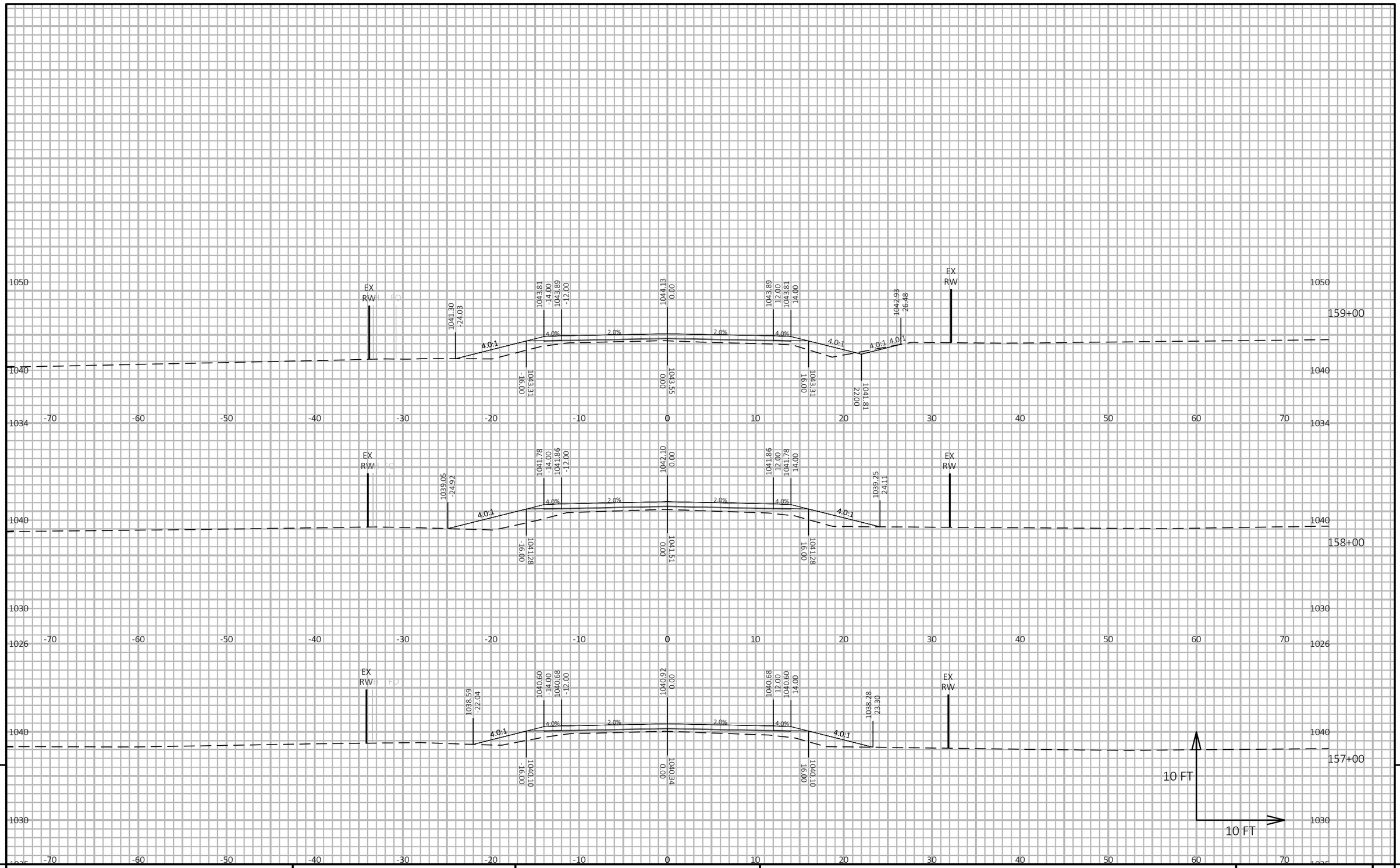
PLOT DATE : 8/3/2026 4:29 PM

PLOT BY : KIERAN CONLEY

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

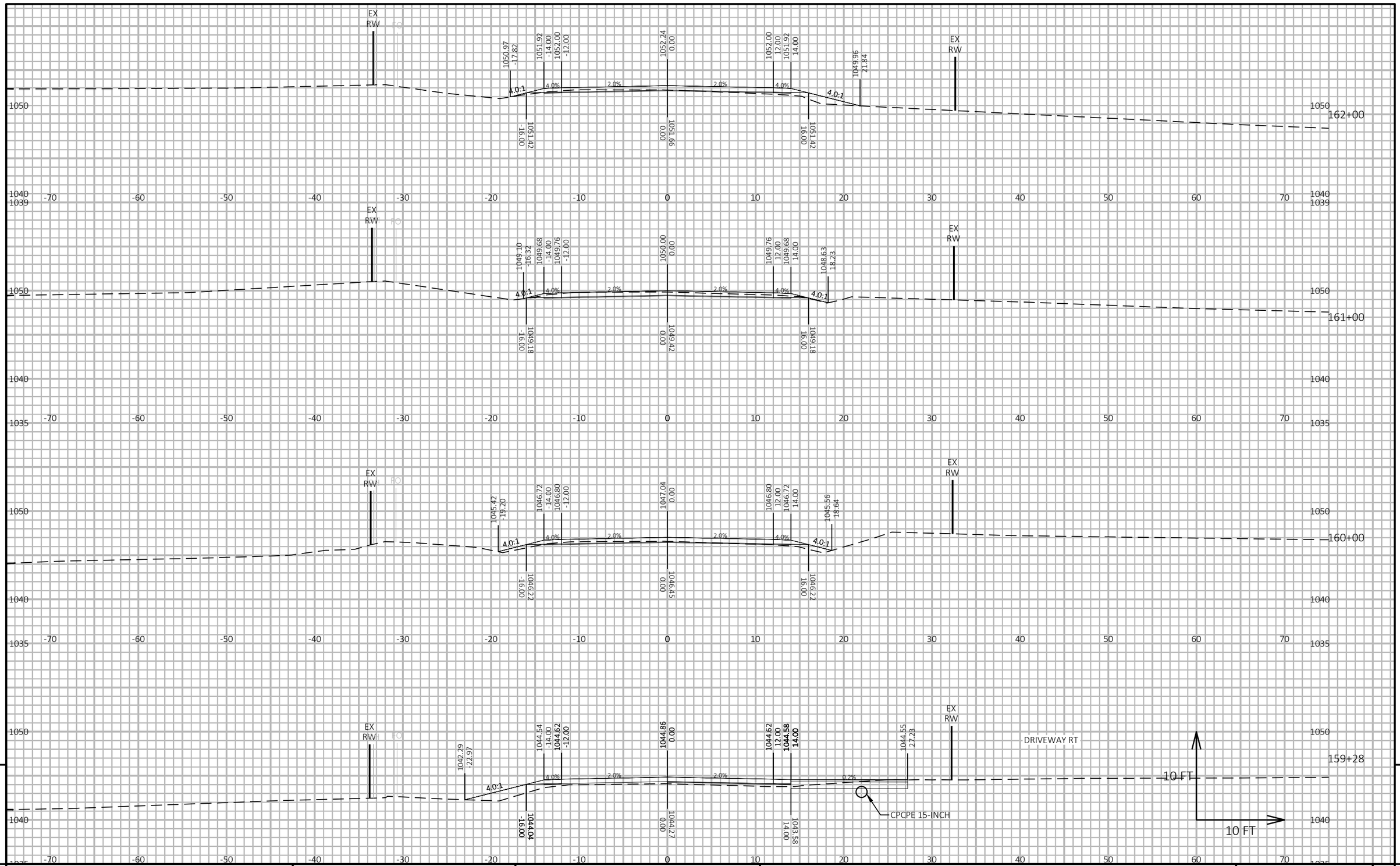
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 130	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 21

PLOT DATE : 8/3/2026 4:29 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



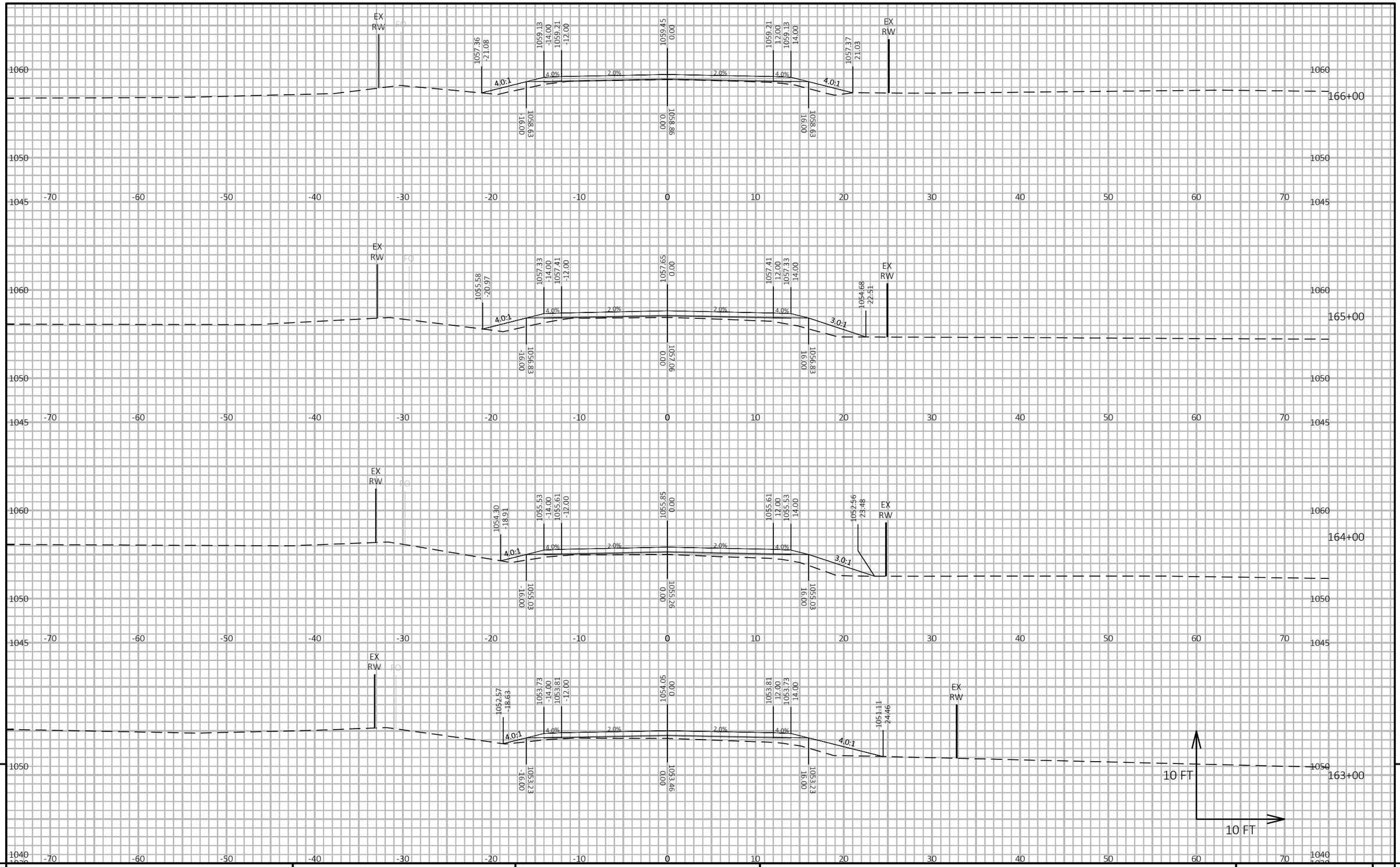
9 9

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 131	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 22

PLOT DATE : 8/3/2026 4:29 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

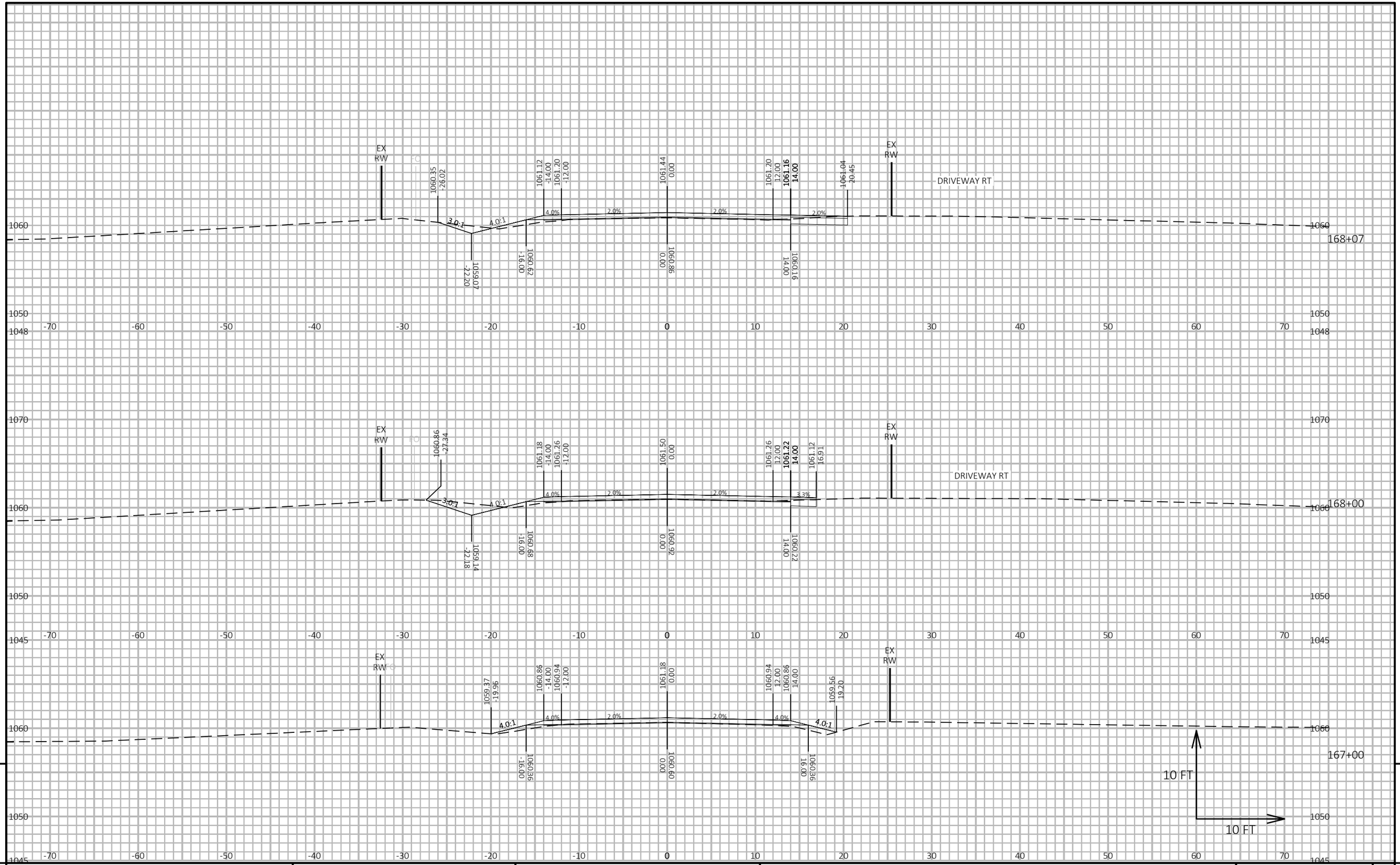
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 132	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 23

PLOT DATE : 8/3/2026 4:29 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

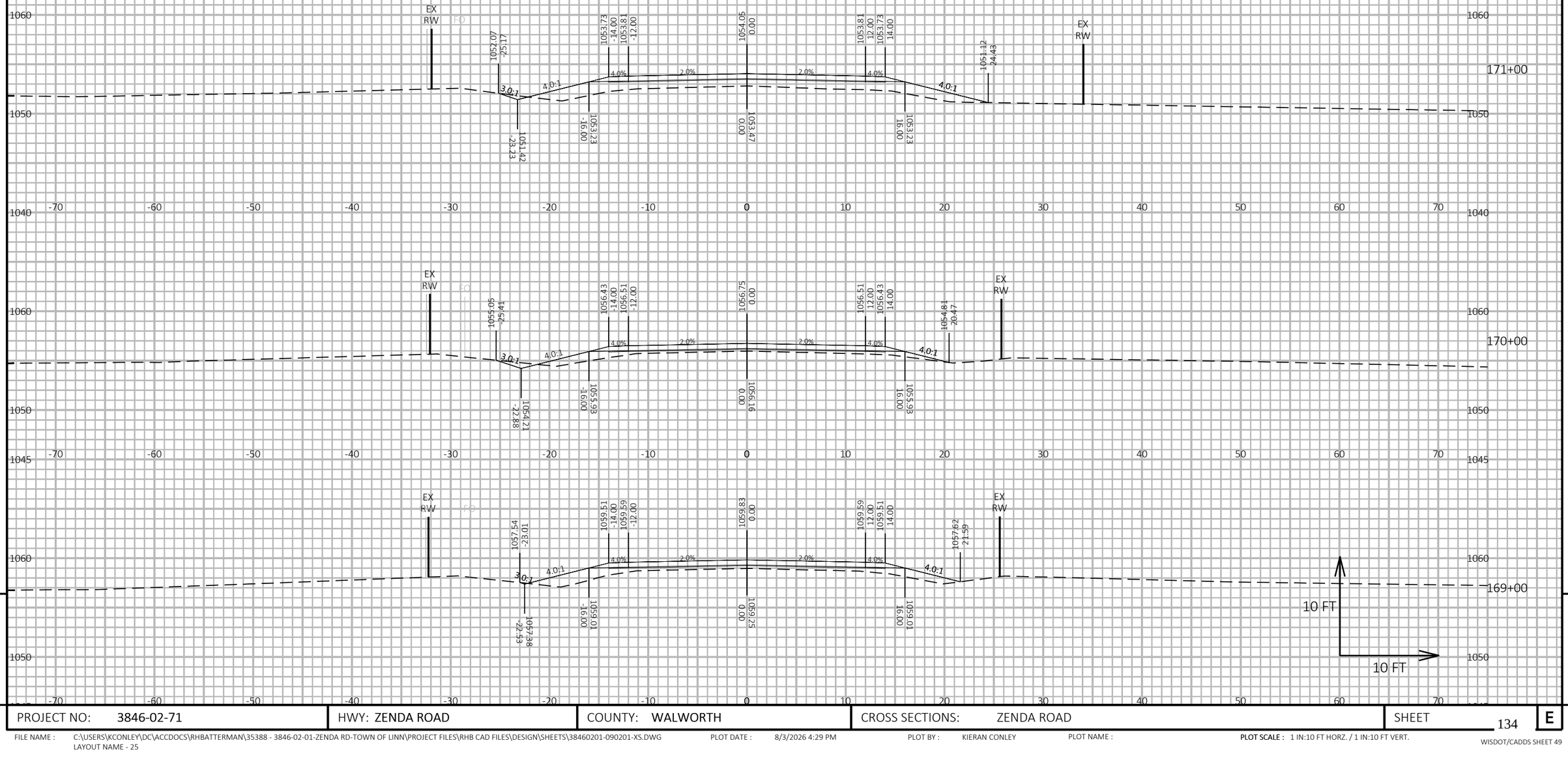
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 133	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 24

PLOT DATE : 8/3/2026 4:29 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

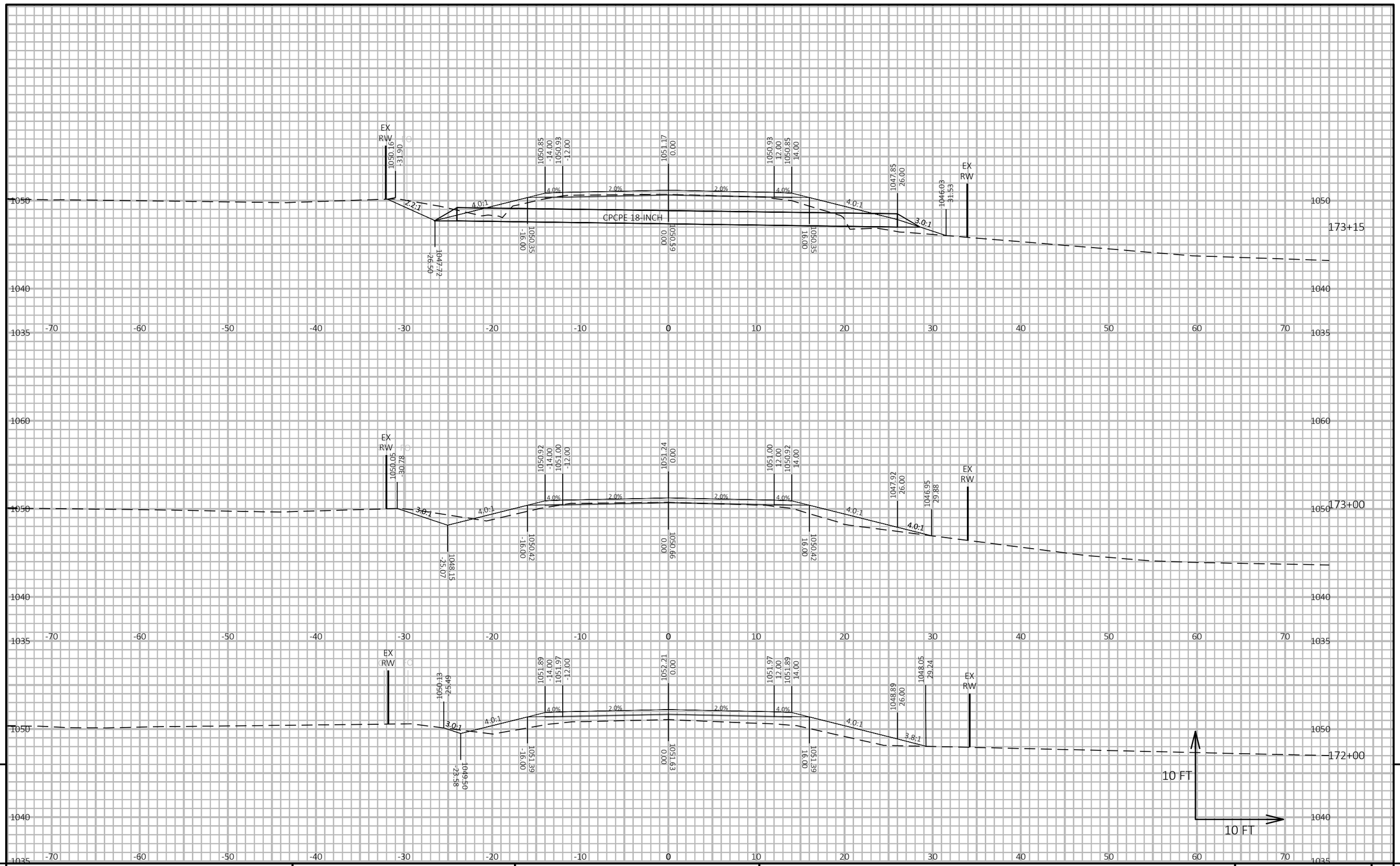


PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 134 E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 25

PLOT DATE : 8/3/2026 4:29 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

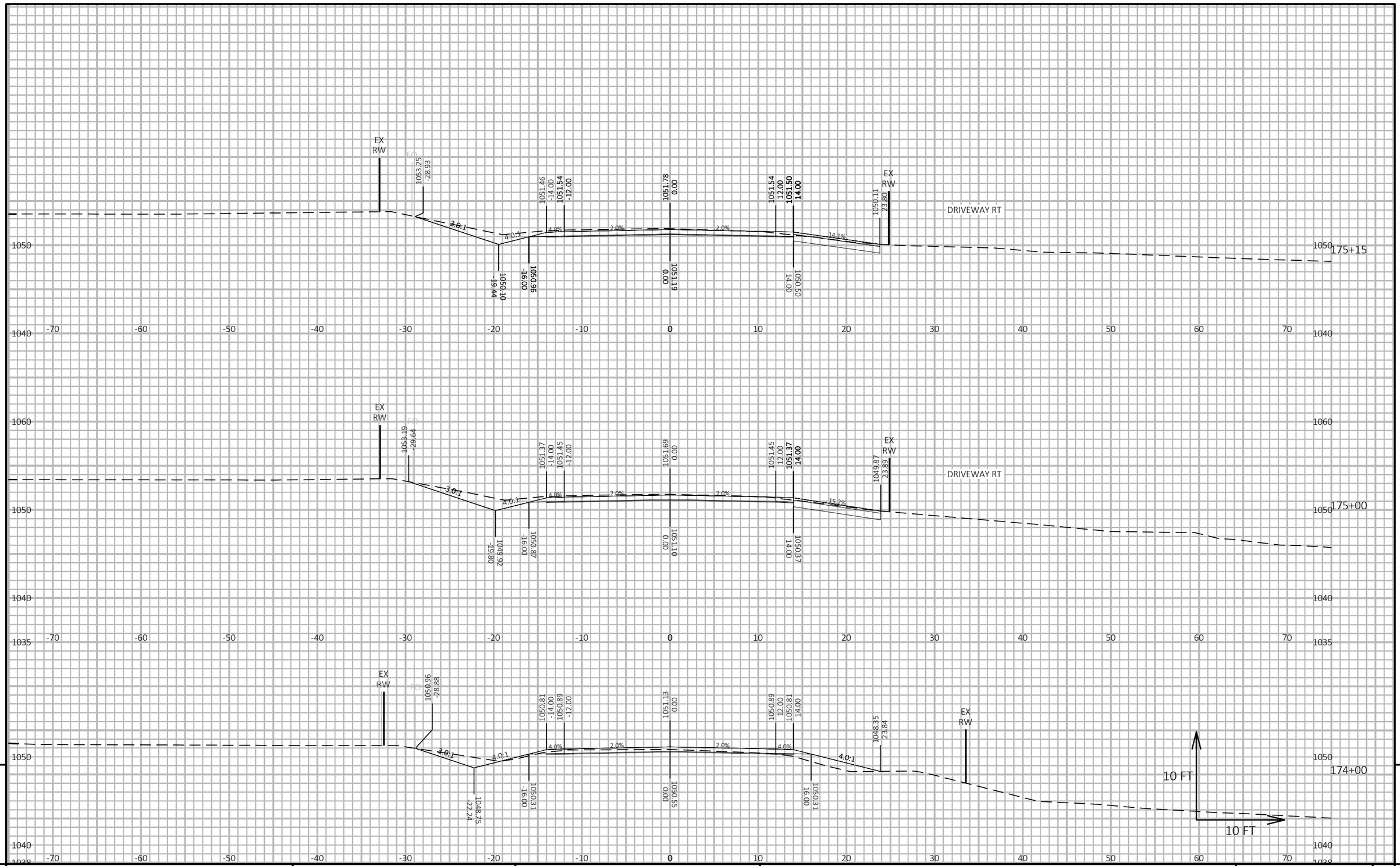
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 135	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 26

PLOT DATE : 8/3/2026 4:30 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

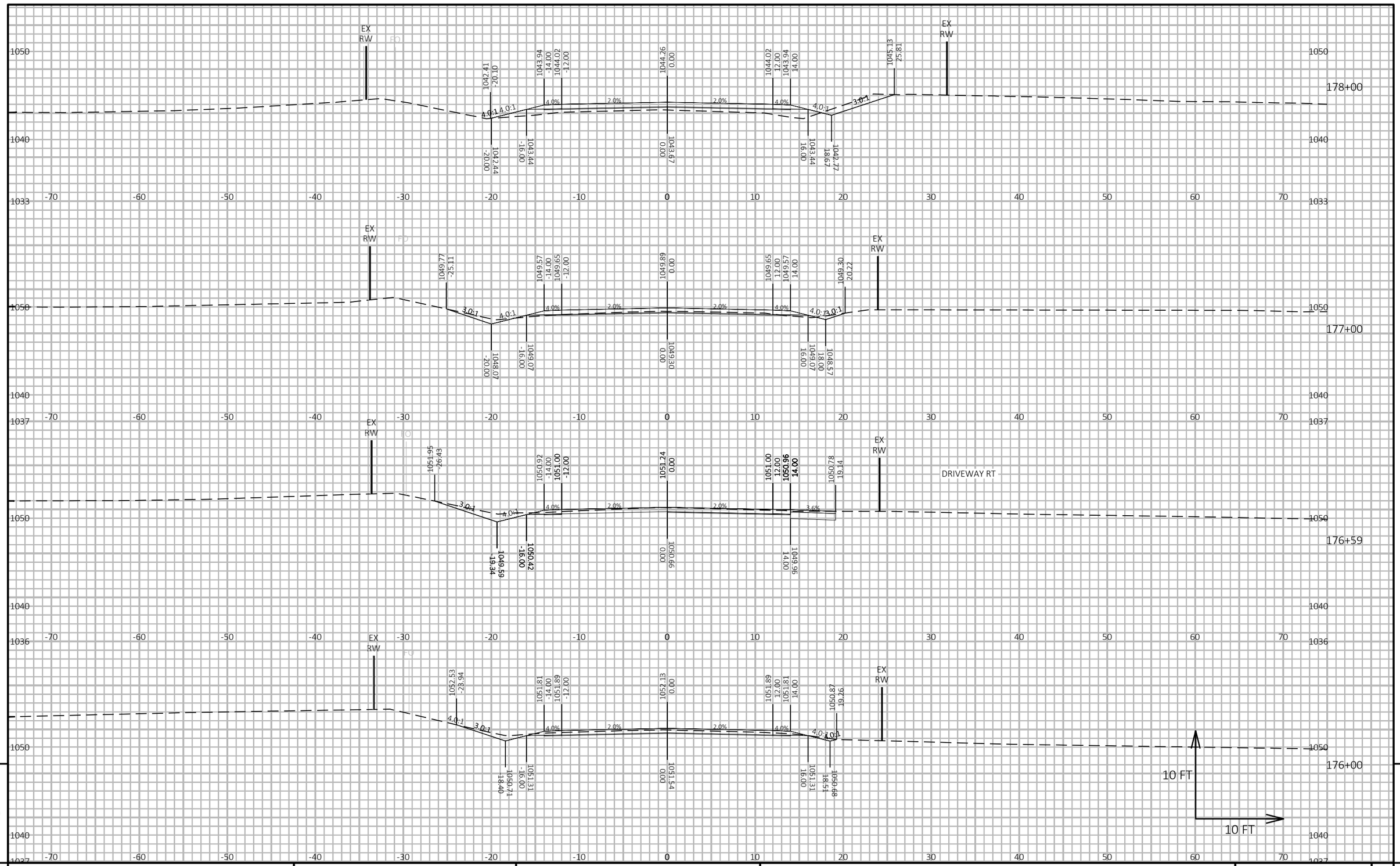
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PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 136	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 27

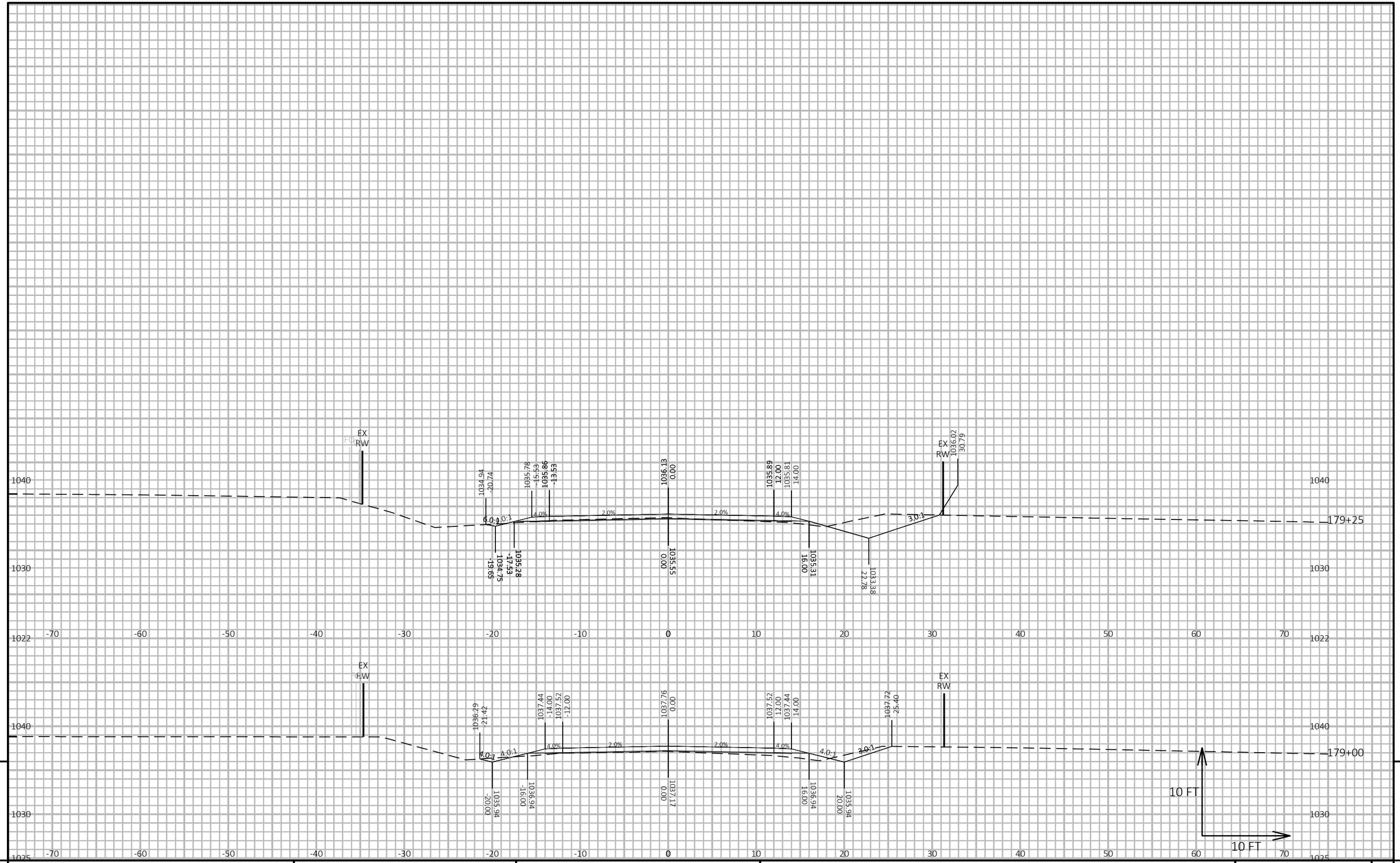
PLOT DATE : 8/3/2026 4:30 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 137	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 28
PLOT DATE : 8/3/2026 4:30 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 3846-02-71	HWY: ZENDA ROAD	COUNTY: WALWORTH	CROSS SECTIONS: ZENDA ROAD	SHEET 138	E

FILE NAME : C:\USERS\KCONLEY\DC\ACCDOCS\RHBATTERMAN\35388 - 3846-02-01-ZENDA RD-TOWN OF LINN\PROJECT FILES\RHB CAD FILES\DESIGN\SHEETS\38460201-090201-XS.DWG
LAYOUT NAME - 29

PLOT DATE : 8/3/2026 4:30 PM PLOT BY : KIERAN CONLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

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